June 15, 2026 – 6:00 PM REGULAR BOARD MEETING

Lehigh Acres Municipal Services Improvement District
Barrett Room
601 East County Lane
Lehigh Acres, FL 33936

This meeting is open to the general public.

REGULAR MEETING AGENDA

1) Preliminaries

- **A.** Call to Order
- **B.** Roll Call
- **C.** Invocation & Pledge of Allegiance
- **D.** Public Comment
- **E.** Move, Remove and Add Agenda Items
- **F.** Approval of Agenda
- **G.** Public Comment for Agenda Items and Non-agenda Items
- **H.** Action on Removed Consent Items
- **I.** Approval of Consent Agenda

2) Consent Agenda

- **A.** Invoices and Change Orders
- **B.** Approval of Minutes May 18, 2026, Regular Meeting
- **C.** PER #25-49 (M1), Minor Modification Sunniland Commons – 3650 5th St. W.
- **D.** PER #25-84, Restaurant - 49 Alabama Rd. N.
- **E.** PER #26-68, Carniceria Monterrey Expansion – 1501 Gretchen Ave S.
- **F.** PER #26-69, Parking Lot & Outdoor Storage – Behind 1390 Lee Blvd.
- **G.** PER #26-70 thru PER #26-82, Lumos Bores at Various Locations
- **H.** PER #26-83, Comcast Bore under Towhee Canal (57-12-2) at Croquet St. E.
- **I.** PER #26-84, Comcast Bore under Charlie Diversion Canal (46-24-2) at Hanna Ave. N.
- **J.** PER #26-85, Comcast Bore under King Canal (47-3-6) at Joel Blvd.

3) Action Agenda

- **A.** Good Cause
- **B.** 2027-2031 Capital Improvement Plan
- **C.** 2027-2031 Strategic Plan
- **D.** 2027 Capital Equipment Replacement Plan
- **E.** Emergency Compensation Policy
- **F.** Job Description Changes
- **G.** Purchase of Parcel
- **H.** Contract Amendment - SFWMD

4) Discussion Agenda

- **A.** Old Business
  1. Evaluation of Manager
  2. 2026 Legislative Appropriation
  3. Leeland Bottomless Lake Building
  4. Manager Replacement Strategy and Schedule
- **B.** New Business
- **C.** Sheriff's Report
- **D.** Commissioner's Request
- **E.** Engineer's Report
- **F.** Attorney's Report
- **G.** Staff and Financial Report
- **H.** Treasurer's Report
- **I.** Secretary's Report

5) Adjournment

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: Invoices and Change Orders

Meeting Date: June 15, 2026

Agenda Item # 2A

[x] **CONSENT** [ ] **ACTION** [ ] **OLD BUSINESS** [ ] **NEW BUSINESS**

Request Initiated By: [ ] **COMMISSIONER** _____ [ ] **ATTORNEY**

[ ] **BOARD** [x] **MANAGER** [ ] **ENGINEER** [ ] **AUDITOR**

1 Recommended motion: Move to approve all invoices as stated on the Summary Sheet.

2 What the action accomplishes: Approves all invoices that are outside the approval limits of the Treasurer and Manager.

3 Fiscal Impact: As listed on the Summary Sheet.

4 Staff comments:

5 Staff review and recommended approval:

[x] **MANAGER** [x] **ASSISTANT DISTRICT MGR**

[x] **ATTORNEY** [x] **FIELD DIRECTOR**

[x] **ENGINEER** [x] **FINANCE DIRECTOR**

6 Board Action:

[ ] **APPROVED** [ ] **DENIED** [ ] **DEFERRED**

Lehigh Acres Municipal Services Improvement District
INVOICES REQUIRING BOARD APPROVAL FOR PAYMENT
Monday June 15th, 2026

***Paid with Procurement Card**

Vendor	Funding Source	Description	Invoice Number		Amount	General	Other
Vendor AIM Engineering	General	**Description** General Engineering through 05/29/26	**Invoice Number**	252166-8	**Amount** $ 6,492.25	6492.25	
Vendor AIM Engineering	General	**Description** 25-2111 LAMSID/ROBUST Phase 3 through 05/29/26- P.O. 1277	**Invoice Number**	252111-10	**Amount** $ 3,111.50	3111.50	
Vendor AIM Engineering	General	**Description** Pro: 26-2241 LAMSID/Alico Rd Ext Analysis through 05/29/26 -P.O. #1298	**Invoice Number**	262241-2	**Amount** $ 19,755.50	19755.50	
Vendor AIM Engineering	General	**Description** Pro: 25-2054 LAMSID/Robust Phase 2 - P.O. #1263 through 05/29/26	**Invoice Number**	252051-12	**Amount** $ 1,575.00	1575.00	
Vendor AIM Engineering	General	**Description** Proj: 25-2161 LAMSID/Robust Phase 4 through 05/29/26 - P.O. #1283	**Invoice Number**	252161-9	**Amount** $ 3,341.00	3341.00	
Vendor AIM Engineering	General	**Description** Proj: 25-2112 LAMSID/Frank Mann Preserve (GS-10 Concept Plan PH 2) through 05/29/26 - P.O. #1276	**Invoice Number**	252112-5	**Amount** $ 19,458.75	19458.75	
					Total AIM Engineering: $	**53,734.00**	
Vendor Lewis Longman Walker	General	**Description** Legislative Representation	**Invoice Number**	MCL-168762	**Amount** $ 4,041.68	4041.68	
Vendor Lewis Longman Walker	General	**Description** General Counsel through 05/31/26	**Invoice Number**	SCB-168790	**Amount** $ 8,467.20	8467.20	
					Total Lewis Longman Walker: $	**12,508.88**	
Vendor Turnbull Environmental, Inc.	General	**Description** Crest Phase III Project 05/09/26 - 06/04/26	**Invoice Number**	12-Crest Phase III	**Amount** $ 134,663.39	134663.39	
					Total Turnbull Environmental, Inc.: $	**134,663.39**	
					TOTAL DISBURSEMENTS: $	**200,906.27**	
					General Fund Total $	200,906.27	
					Other Funding Total	-	
					General and Other Total $	**200,906.27**	

AIM Engineering & Surveying, Inc.

Corporate Office
2161 Fowler Street
Suite 100
Fort Myers, FL 33901

239-332-4569
800-226-4569
Fax: 855-731-7971
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Lehigh Acres Municipal Services Improvement District
601 East County Lane
Lehigh Acres, FL 33936

Invoice number 252166-8
Date 06/02/2026

Professional Services through May 29, 2026

Project 241976 - General Engineering FY 2025/2026

Employee Type / Activity		Date	Hours	Rate	Amount
General Engineering					
Engineering Manager					
D. Schroeder	May engineering report	05/11/26	1.00	$257.00	$257.00
	Review board packet and May board meeting	05/18/26	3.00	$257.00	$771.00
Sunshine	Alico/Sunshine Widening agreement coordination	05/19/26	1.00	$257.00	$257.00
Engineer Intern					
E. Ibarra	EOPC for sinkhole parcel	05/04/26	8.00	$131.00	$1,048.00
Sinkhole					
		Task Total			**$2,333.00**
Review Permits					
Engineer Intern					
M. Hebert	Permit 26-14	05/01/26	2.00	$131.00	$262.00
	Permits 26-45, 26-44, 26-20, 26-21, 26-24, 26-25, 26-26, 26-30, 26-32, 26-33, 26-34, 26-35, 26-36, 26-37, 26-38	05/07/26	3.00	$131.00	$393.00
	Permit 25-84 / Emailed permit reviews to Mike for Board Meeting	05/08/26	1.00	$131.00	$131.00
	Permits 26-70 thru 26-86	05/14/26	2.00	$131.00	$262.00
	Permits 26-70 thru 26-86	05/15/26	2.00	$131.00	$262.00
E. Ibarra	Permits 26-45, 26-44, 26-20, 26-21, 26-24, 26-25, 26-26, 26-30, 26-32, 26-33, 26-34, 26-35, 26-36, 26-37, 26-38	05/07/26	8.00	$131.00	$1,048.00
P. Niedermair	Permit 25-84 (resubmittal)	05/08/26	1.00	$131.00	$131.00
	Permits 26-70 thru 26-86 & 25-49 modification	05/14/26	6.75	$131.00	$884.25
	Finalized comments for permit 26-86 / permit 25-49 modification	05/15/26	6.00	$131.00	$786.00
		Task Total			**$4,159.25**

2025/2026 General Engineering Billing Totals:	
Contract Amount	$90,000.00
Total to Date	$76,192.00
Previous Billing	$69,699.75
Total this Period	$6,492.25

Invoice Total **$6,492.25**

DEPT | DATE
DEPT 1 NB 6/3/26
CODE 01-3130 5,187.25 0001-0000-220-6011 $257 -Sunshine
DEPT 2 MBC 6/3/26 0306-4071-538-3130 $1048 -Sinkhole
CODE
MANAGER

ENTERED

AIM Engineering & Surveying, Inc.

Corporate Office
2161 Fowler Street
Suite 100
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Lehigh Acres - Municipal Services Improvement District
601 East County Lane
Lehigh Acres, FL 33936

Invoice number 252111-10
Date 06/02/2026

Project **25-2111 LAMSID / ROBUST PHASE 3 / PO #1277**

Professional services through May 29, 2026

Description	Contract Amount	Percent Complete	Fee Earned to Date	Previous Billing	Current Billed
TASK 1 - DESIGN SERVICES (LS)	295,000.00	29.60	87,324.00	84,212.50	3,111.50
TASK 2 - POST DESIGN SERVICES (LS)	12,000.00	0.00	0.00	0.00	0.00
TASK 3 - CONSTRUCTION PHASE SERVICES (LS)	35,000.00	0.00	0.00	0.00	0.00
Total	342,000.00	25.53	87,324.00	84,212.50	3,111.50

Invoice total **3,111.50**

DEPT 1 NB 6/3/26
CODE P.O. 1277 Line 1
DEPT 2 MK 6/3/26
CODE
MANAGER

ENTERED

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2161 Fowler Street
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Lehigh Acres - Municipal Services Improvement District
601 East County Lane
Lehigh Acres, FL 33936

Invoice number 262241-2
Date 06/02/2026

Project **26-2241 LAMSID / ALICO RD EXTENSION ANALYSIS**

Professional services through May 29, 2026

Description	Contract Amount	Percent Complete	Fee Earned to Date	Previous Billing	Current Billed
TASK 1 - ROW LOSS MODELING ANALYSIS -- SUB - WATER SCIENCE	227,500.00	14.16	32,216.50	12,461.00	19,755.50
TASK 2 - DEVELOPMENT & COORDINATION OF PROJECT ALTERNATIVES	22,500.00	0.00	0.00	0.00	0.00
Total	250,000.00	12.89	32,216.50	12,461.00	19,755.50

Invoice total **19,755.50**

Please remit payment to:

2161 Fowler St, Suite 100
Fort Myers, FL 33901

Thank you -

UNIT DATE
DEPT 1 NB 6/3/26
CODE P.O. 12981 Line #1
DEPT 2 MSC 6/3/26
CODE
MANAGER

ENTERED

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Lehigh Acres - Municipal Services Improvement District
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Lehigh Acres, FL 33936

Invoice number 252051-12
Date 06/02/2026

Project **25-2051 LAMSID / ROBUST PHASE 2 / PO #1263**

Professional services through May 29, 2026

Description	Contract Amount	Percent Complete	Fee Earned to Date	Previous Billing	Current Billed
TASK 1 - DESIGN SERVICES (LS)	56,009.00	100.00	56,009.00	56,009.00	0.00
TASK 1 - DESIGN SERVICES (LS) SURVEY	38,553.00	100.00	38,553.00	38,553.00	0.00
TASK 1 - DESIGN SERVICES (NTE) PDE	98,400.00	21.53	21,184.00	21,184.00	0.00
TASK 1 - DESIGN SERVICES - WATER SCIENCE ASSOC (SUB - NTE)	57,000.00	94.07	53,620.00	52,045.00	1,575.00
TASK 2 - POST DESIGN SERVICES (LS)	10,000.00	0.00	0.00	0.00	0.00
TASK 3 - CONSTRUCTION PHASE SERVICES (LS)	30,000.00	0.00	0.00	0.00	0.00
ADDTL SURVEY SERVICES (HRLY)	2,910.50	100.00	2,910.50	2,910.50	0.00
CROSS SECTIONS (LS)	6,000.00	100.00	6,000.00	6,000.00	0.00
EASEMENT INVESTIGATION (HRLY)	1,127.50	100.00	1,127.50	1,127.50	0.00
Total	300,000.00	59.80	179,404.00	177,829.00	1,575.00

Invoice total **1,575.00**

INIT DATE
DEPT 1 NB 6/3/26
CODE P.O.1263 Line 1
DEPT 2 MSG 6/3/26
CODE
MANAGER

ENTERED

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Lehigh Acres - Municipal Services Improvement District
601 East County Lane
Lehigh Acres, FL 33936

Invoice number 252161-9
Date 06/02/2026

Project **25-2161 LAMSID / ROBUST PHASE 4 / PO #1283**

Professional services through May 29, 2026

Description	Contract Amount	Percent Complete	Fee Earned to Date	Previous Billing	Current Billed
TASK 1 - DESIGN SERVICES (LS)	276,000.00	13.92	38,417.25	35,076.25	3,341.00
TASK 2 - POST DESIGN SERVICES (LS)	11,000.00	0.00	0.00	0.00	0.00
TASK 3 - CONSTRUCTION PHASE SERVICES (LS)	33,000.00	0.00	0.00	0.00	0.00
Total	320,000.00	12.01	38,417.25	35,076.25	3,341.00

Invoice total **3,341.00**

DEPT 1 — VB 6/3/26
CODE — P.O. 1283 Line 1
DEPT 2 — MBC 6/3/26
CODE
MANAGER

ENTERED

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2161 Fowler Street
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Lehigh Acres - Municipal Services Improvement District
601 East County Lane
Lehigh Acres, FL 33936

Invoice number 252112-5
Date 06/02/2026

Project **25-2112 LAMSID / FRANK MANN PRESERVE (GS-10 CONCEPT PLAN PH 2) / PO 1276**

Professional services through May 29, 2026

Description	Contract Amount	Percent Complete	Fee Earned to Date	Previous Billing	Current Billed
DESIGN SERVICES -- CIVIL (LS)	661,248.00	6.88	45,487.50	26,438.75	19,048.75
POST-DESIGN SERVICES -- CIVIL (LS)	15,000.00	0.00	0.00	0.00	0.00
CONSTRUCTION PHASE SERVICES -- CIVIL (LS)	85,000.00	0.00	0.00	0.00	0.00
SURVEY SERVICES (NTE)	3,450.00	100.00	3,450.00	3,450.00	0.00
CENTERLINE PROFILE TOPO SURVEY OF LINEAR BERMS (HRLY)	30,602.00	58.01	17,753.00	17,343.00	410.00
APEX (WATER SCIENCE) SUB (LS)	189,700.00	0.00	0.00	0.00	0.00
Total	985,000.00	6.77	66,690.50	47,231.75	19,458.75

Invoice total **19,458.75**

DEPT 1 CODE
DEPT 2 CODE
MANAGER

INIT DATE
NB 6/3/26
P.O 1276 Line 1
MBC 6/3/26

ENTERED

LLW LEWIS LONGMAN WALKER

360 South Rosemary Avenue
Suite 1100
West Palm Beach, FL 33401
Tel 561-640-0820
Fax 561-640-8202
Tax ID No. 65-0500793

Lehigh Acres Municipal Services Improvement District
c/o Mr. David E. Lindsay
601 East County Lane
Lehigh Acres, FL 33936

June 3, 2026
Invoice No. MCL-168762

FOR MAY SERVICES

CLIENT: 1208 - Lehigh Acres Municipal Services Improvement District
Re: 006 Legislative Representation
VIA ELECTRONIC MAIL

Total for Services	**$4,000.00**

Date	Expenses	Amount
04/01/26	Travel to and attend event with President Pro-Tempore Brodeur.	1.06
04/27/26	Lunch meeting with M. Yost regarding event for Representative Koster.	5.83
05/15/26	Travel to and attend Representative Redondo's republican freshman event in Miami.	34.79
Total Expenses		**$41.68**

Total for Services and Expenses	**$4,041.68**
Previous Balance	4,161.49
Payments Since Last Bill	-4,161.49
Amount Due	**$4,041.68**

INIT DATE
DEPT 1 NB 6/3/26
CODE 01-3110
DEPT 2 MSC 6/3/26
CODE
MANAGER

ENTERED

Invoice No.	MCL-168762
Invoice Date:	June 3, 2026
Client Code:	1208
Client Name:	Lehigh Acres Municipal Services Improvement District
Matter Code:	006
Matter Name:	Legislative Representation

Total for Services and Expenses	**$4,041.68**
Previous Balance	4,161.49
Payments Since Last Bill	-4,161.49
Amount Due	**$4,041.68**

Amount enclosed: _____

Please remit checks to:

Lewis, Longman & Walker, P.A.
PO Box 160278
Altamonte Springs, FL 32716-0278

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For billing questions, please contact our Billing Department at: (561) 640-0820.

LEWIS LONGMAN WALKER

360 South Rosemary Avenue
Suite 1100
West Palm Beach, FL 33401
Tel 561-640-0820
Fax 561-640-8202
Tax ID No. 65-0500793

Lehigh Acres Municipal Services Improvement District
c/o Mr. David E. Lindsay
601 East County Lane
Lehigh Acres, FL 33936

June 3, 2026
Invoice No. SCB-168790

CLIENT: 1208 - Lehigh Acres Municipal Services Improvement District
Re: 007 General Counsel
VIA ELECTRONIC MAIL

Date		Services	Hours	
05/07/26	KWD	Review correspondence and telephone conference with client regarding same; telephone conference with M. Ebelini and D. Boyette regarding settlement proposal and follow up.	1.20	
05/18/26	SCB	Review of agenda; telephone conference with D. Lindsay to review all agenda items; attend Board of Supervisors meeting by teleconference.	2.50	
05/19/26	SCB	Continue review of County Interlocal; teleconference with D. Lindsay, M. Cook, and D. Schroeder to review County agreement.	2.50	- Sunshine
05/19/26	KWD	Telephone conference with D. Boyette regarding extinguishment of easement; telephone conference with client regarding same.	0.70	
05/20/26	SCB	Continue revisions to the Interlocal Agreement with Lee County and forward redline to D. Lindsay, M. Cook, and D. Schroeder for review and comment	2.00	-Sunshine
05/21/26	SCB	Attend meeting with Lee County Right of Way, County Attorney, D. Lindsay, and M. Cook to review Sunshine widening project and right of way issues.	7.50	-Sunshine
05/27/26	RAW	Correspondence with D. Lindsey regarding status (no charge).	0.30	

INIT DATE
DEPT 1 MS 6/3/26
CODE Sunshine 0001-0000-220-0011- 4309.20
01-3100 - 4158
DEPT 2 MSC 6/3/26
CODE
MANAGER

ENTERED

Date		Services	Hours
05/29/26	NRB	Research, review, and analyze drainage district agreements with school boards regarding assessment; research Florida case law pertaining to local government authority to levy assessments and fees on school boards; review and assess Florida statute authority given to school boards; review and analyze case law basis for taxes, fees, and assessments and ability to levy charges on another local government, specifically a school board; prepare memorandum outlining District's ability to levy special assessments on new school facilities and user fees.	4.10
05/30/26	NRB	Review and evaluate Hernando County Water Sewer Dist. v. Hernando County Bd. of Pub. Instruction, Loxahatchee River Envtl. Control Dist. v. Sch. Bd., and Remington Community Development District v. Education Foundation of Osceola, etc. et al. in development of memorandum regarding District's ability to levy charges related to impact of new school infrastructure; continue to prepare and develop memorandum on same.	1.40
05/31/26	NRB	Prepare and develop summary of basis for 298 district issuing special assessment to school board in relation to new school facility and user fees; review and revise legal memorandum of same.	2.20

Summary of Services

		Rate	Hours	Amount
SCB	Behn, Seth C.	350.00	14.50	5,075.00
NRB	Bixler, Nicholas R.	340.00	7.70	2,618.00
KWD	Dodge, Kenneth W.	350.00	1.90	665.00
RAW	Williams, Robert A.	0.00	0.30	0.00
Total for Services			**24.40**	**$8,358.00**

Date	Expenses	Amount
04/21/26	Hotel stay for meeting attendance. - Seth Behn	109.20
Total Expenses		**$109.20**

-Sunshine

Total for Services and Expenses	**$8,467.20**
Previous Balance	6,090.00
Payments Since Last Invoice	-6,090.00
Amount Due	**$8,467.20**

Invoice No.	SCB-168790
Invoice Date:	June 3, 2026
Client Code:	1208
Client Name:	Lehigh Acres Municipal Services Improvement District
Matter Code:	007
Matter Name:	General Counsel

Total for Services and Expenses	**$8,467.20**
Previous Balance	6,090.00
Payments Since Last Invoice	-6,090.00
Amount Due	**$8,467.20**

Amount enclosed: _____

Please remit checks to:

Lewis, Longman & Walker, P.A.
PO Box 160278
Altamonte Springs, FL 32716-0278

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Contractor's Application for Payment

Owner: Lehigh Acres Municipal Services Improvement District
Owner's Project No.: 4030
Engineer: AIM Engineering & Surveying, Inc.
Engineer's Project No.: 19-1026
Contractor: Turnbull Environmental, Inc.
Contractor's Project No.: N/A
Project: CREST Phase III Project
Contract: CREST Phase III Project
Application No.: 12
Application Date: 6/04/2026
Application Period: From 05/09/2026 to 06/04/2026

1. Original Contract Price	$	3,715,593.97
2. Net change by Change Orders	$	(1,234,934.96)
CO #1 - Increase plant densities & species	$	175,728.20
CO #2 - No Cost Time Extension	$	-
CO #3 - Nuisance & Exotic Treatment	$	13,650.00
CO #4 - Decrease Onsite Excavation	$	(1,805,813.16)
CO #5 - Skid Mounted Pump System	$	357,500.00
CO #6 - No Cost Time Extension	$	-
CO #7 - Cellular Modem Comms & Radios	$	24,000.00
3. Current Contract Price (Line 1 + Line 2)	$	2,480,659.01
4. Total Work completed and materials stored to date	$	1,818,533.04
(Sum of Column G Lump Sum Total and Column J Unit Price Total)		
5. Retainage		
5% X $ 1,818,533.04 Work Completed	$	90,926.65
5% X $ - Stored Materials	$	-
c. Total Retainage (Line 5.a + Line 5.b)	$	90,926.65
6. Amount eligible to date (Line 4 - Line 5.c)	$	1,727,606.39
7. Less previous payments (Line 6 from prior application)	$	1,592,943.00
8. Amount due this application	$	134,663.39
9. Balance to finish, including retainage (Line 3 - Line 4)	$	662,125.97

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:
(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;
(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and
(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor: Turnbull Environmental Inc
Signature: [signature]
Date: 6/4/2026

Recommended by Engineer
By: [signature]
Title: Daniel Schroeder, VP
Date: 06-04-2026

Approved by Owner
By: [signature]
Title: Assist. Dist. Manager
Date: 6/4/26 INIT DATE

DEPT 1 [signature] 6/4/26
CODE P.O. #1248
DEPT 2
CODE
MANAGER

Approved by Funding Agency
By:
Title:
Date:

By:
Title:
Date:

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Line 1 123,877,13
Line 2 - 708,136
Line 3 1787360

Owner:	**Lehigh Acres Municipal Serv. Improv. District**				**Owner's Project No.:**	4030		
Engineer:	**AIM Engineering & Surveying, Inc.**				**Engineer's Project No.:**	19-1026		
Contractor:	**Turnbull Environmental, Inc.**				**Contractor's Project No.:**	N/A		
Project:	**CREST Phase III Project**							
Contract:	**CREST Phase III Project**							
App. No.:	**12**	**Application Period:**	**From:**	**5/9/2026**	**to**	**6/4/2026**	**Application Date:**	**6/4/2026**

A	B	C	D	E	F	G	H	I
			Work Completed					
Item No.	Description	Scheduled Value ($)	(D + E) From Previous Application ($)	This Period ($)	Materials Currently Stored (not in D or E) ($)	Work Completed and Materials Stored to Date (D = E + F) ($)	% of Scheduled Value (G / C) (%)	Balance to Finish (C - G) ($)
	Original Contract							
1a	Mobilization	$ 76,500.00	$ 76,500.00	$ -	$ -	$ 76,500.00	100%	$ -
1b	Site Restoration / Demobilization	$ 13,500.00	$ 3,500.00	$ 3,500.00	$ -	$ 7,000.00	52%	$ 6,500.00
2	General Requirements	$ 40,000.00	$ 40,000.00	$ -	$ -	$ 40,000.00	100%	$ -
3	Surveying	$ 60,000.00	$ 60,000.00	$ -	$ -	$ 60,000.00	100%	$ -
4	Silt Fencing	$ 8,710.00	$ 8,710.00	$ -	$ -	$ 8,710.00	100%	$ -
5	Floating Turbidity Barrier	$ 1,920.00	$ 1,920.00	$ -	$ -	$ 1,920.00	100%	$ -
6	Excavation / Embank. Option 1	$ 2,184,564.15	$ 336,577.45	$ -	$ -	$ 336,577.45	15%	$ 1,847,986.70
A-1	Excavation / Embank. Option 2	$ (273,728.52)	$ (231,554.98)	$ -	$ -	$ (231,554.98)	85%	$ (42,173.54)
7	Stabil. Soil Perimeter Berm Only	$ 34,515.25	$ 34,515.25	$ -	$ -	$ 34,515.25	100%	$ -
8	Concrete Maintenance Pad	$ 6,750.00	$ 6,750.00	$ -	$ -	$ 6,750.00	100%	$ -
9	Restoration Sodding (2.80 / SY)	$ 206,001.60	$ 204,651.78	$ 69,378.40	$ -	$ 274,030.18	133.0%	$ (68,028.58)
10	Electric Actuator, Complete	$ 91,250.00	$ 91,250.00	$ -		$ 91,250.00	100%	$ -
11	Electrical Service, Complete	$ 90,000.00	$ 90,000.00	$ -	$ -	$ 90,000.00	100%	$ -
12	Telemetry Components, Complete	$ 78,000.00	$ 75,700.00	$ -	$ -	$ 75,700.00	97%	$ 2,300.00
13	I - Beam with Staff Gauge	$ 1,531.67	$ -	$ -	$ -	$ -	0%	$ 1,531.67
	Base Bid Total	**$ 2,619,514.15**	**$ 798,519.50**	**$ 72,878.40**	**$ -**	**$ 871,397.90**	**33.3%**	**$ 1,748,116.25**

EJCDC C-620 Contractor's Application for Payment
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Owner:	**Lehigh Acres Municipal Serv. Improv. District**	**Owner's Project No.:**	4030
Engineer:	**AIM Engineering & Surveying, Inc.**	**Engineer's Project No.:**	19-1026
Contractor:	**Turnbull Environmental, Inc.**	**Contractor's Project No.:**	N/A
Project:	**CREST Phase III Project**		
Contract:	**CREST Phase III Project**		

App. No.: 12 **Application Period:** **From:** 5/9/2026 **to** 6/4/2026 **Application Date:** 6/4/2026

A	B	C	D	E	F	G	H	I
			Work Completed					
Item No.	Description	Scheduled Value ($)	(D + E) From Previous Application ($)	This Period ($)	Materials Currently Stored (not in D or E) ($)	Work Completed and Materials Stored to Date (D = E + F) ($)	% of Scheduled Value (G / C) (%)	Balance to Finish (C - G) ($)
	Original Contract							
	Alternate Bid Items							
A-2	Excav. of Buffer Area Option 1	$ 443,813.45	$ 191,654.76	$ -	$ -	$ 191,654.76	43%	$ 252,158.69
A-3	Excav. of Buffer Area Option 2	$ (55,610.36)	$ (31,595.82)	$ -	$ -	$ (31,595.82)	57%	$ (24,014.54)
A-4	Wetland Ground Cover Plantings	$ 89,677.50	$ 89,677.50	$ -	$ -	$ 89,677.50	100%	$ -
A-5	Wetland Tree Plantings	$ 66,948.00	$ 66,948.00	$ -	$ -	$ 66,948.00	100%	$ -
A-6	Stabil. Soil - Maint. Access Path	$ 32,573.75	$ 32,573.75	$ -	$ -	$ 32,573.75	100%	$ -
A-7	Pea Gravel for Berm	$ 50,998.75	$ -	$ 50,998.75	$ -	$ 50,998.75	100%	$ -
A-8	Seed and Mulch	$ 138,339.85	$ -	$ -	$ -	$ -	0%	$ 138,339.85
	Alternate Bid Items Total	**$ 766,740.94**	**$ 349,258.19**	**$ 50,998.75**	**$ -**	**$ 400,256.94**	**52.2%**	**$ 366,484.00**
	NTE Original Contract Total	**$ 3,386,255.09**	**$ 1,147,777.69**	**$ 123,877.15**		**$ 1,271,654.84**	**37.6%**	**$ 2,114,600.25**
CO #1	Increase Plant Density & Species; Add Palms	$ 175,728.20	$ 175,728.20	$ -	$ -	$ 175,728.20	100%	$ -
CO #3	Nuisance & Exotic Treatment	$ 13,650.00	$ 13,650.00	$ -	$ -	$ 13,650.00	100%	$ -
CO#4	Deduct to capture project savings due to off-site sale of fill by contractor	$ (1,805,813.16)	$ (1,805,813.16)	$ -	$ -	$ (1,805,813.16)	100%	$ -
CO#5	Skid-Mounted Pump and appurtenances	$ 357,500.00	$ 339,626.40	$ 17,873.60	$ -	$ 357,500.00	100.0%	$ -
CO#7	Add Cellular Modem Comms & Radios	$ 24,000.00	$ -	$ -	$ -	$ -	0.0%	$ 24,000.00
	Max Contract Total with Bid Item 6, Alternate A-2, & CO #1 thru 5	**$ 2,480,659.01**	**$ (129,030.87)**	**$ 141,750.75**	**$ -**	**$ 1,818,533.04**	**73%**	**$ 662,125.97**

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LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: Approval of Minutes - May 18, 2026, Regular Meeting

Meeting Date: June 15, 2026

Agenda Item # 2B

[x] **CONSENT** [ ] **ACTION** [ ] [ ] **NEW BUSINESS**

Request Initiated By: [ ] **COMMISSIONER** _____ [ ] **ATTORNEY**

[ ] **BOARD** [x] **MANAGER** [ ] **ENGINEER** [ ] **AUDITOR**

Recommended motion: Move to approve the minutes from the May 18, 2026 Regular Board Meeting.

What the action accomplishes: Memorializes the Board Meetings as per Florida Statute.

Fiscal Impact: 2 hrs staff time.

Staff comments:

Staff review and recommended approval:

[x] **MANAGER** [ ] **ASSISTANT DISTRICT MGR**

[ ] **ATTORNEY** [ ] **FIELD SUPERINTENDENT**

[x] **ENGINEER** [x] **CONTROLLER**

Board Action:

[ ] **APPROVED** [ ] **DENIED** [ ] **DEFERRED**

LET IT BE KNOWN that the "Lehigh Acres Municipal Services Improvement District" held its regularly scheduled monthly Board meeting at 6:30 P.M. in the Barrett Room, 601 East County Lane, Lehigh Acres, FL 33936, with various members of the public and the following Commissioners and staff present:

Attendance

CHAIR:	Michael Bonacolta
VICE CHAIR:	Julie Hollingsworth
TREASURER:	Rebecca Thompson
SECRETARY:	David Deetscreek
COMMISSIONER:	Katy Hoover (Virtual)
STAFF:	Dave Lindsay, District Manager Michael Cook, Director of Operations Dana March, Finance Director Tim Browning, Information Systems Coordinator Lisa Waskiewicz, Resource & Relations Director
ATTORNEY:	Seth Behn, Lewis, Longman & Walker (Virtual)
ENGINEER:	Daniel Schroeder, AIM Engineering

REGULAR MEETING AGENDA

1) Preliminaries

- **A.** Call to Order
- **B.** Roll Call
- **C.** Invocation & Pledge of Allegiance
- **D.** Move, Remove and Add Agenda Items
- **E.** Approval of Agenda
- **F.** Action on Removed Consent Items
- **G.** Approval of Consent Agenda
- **H.** Public Comment for Agenda Items and Non-agenda Items

2) Consent Agenda

- **A.** Invoices and Change Orders
- **B.** Approval of Minutes – April 20, 2026, Regular Meeting
- **C.** PER #26-14, Ek Car Wash – 2701 Lee Blav.
- **D.** PER #26-51, Century Link-Lumen Bore under Gunner Canal (46-22-3) at Park Rd
- **E.** PER #26-53, Century Link-Lumen Bore under Angelfish Canal (46-28-2) at Gunnery Rd
- **F.** PER #26-57, Comcast Bore under Cabio Canal (46-25-2) at 12th St. W.
- **G.** PER #26-58, Comcast Bore under Shrike Canal (57-24-8) at Bari St. E.
- **H.** PER #26-59, Comcast Bore under Shrike Canal (57-24-8) at Isabella St
- **I.** PER #26-60, Comcast Bore under Snipe Canal (57-24-7) at Naples Ave. S.
- **J.** PER #26-64, Comcast Bore under Sandhill Canal (57-2-7-) at Sentinella Blvd.
- **K.** PER #26-65, Comcast Bore under Plover Canal (57-11-4) at Butler St. E.
- **L.** PER #26-66, Comcast Bore under Bald Eagle Canal (57-36-2) at SR 82
- **M.** PER #26-67, FGUA Waterline Bore under Amberjack Canal (46-31-2) at 28th St. SW.
- **N.** PER #26-20, #26-21, #26-24, #26-25 & #26-26, Lumos Bores
- **O.** PER #26-30, #26-32, #26-33, #26-34, #26-35, #26-36, #26-37 & #26-38, Lumos Bores
- **P.** PER #26-44, & #26-45, Lumos Bores

3) Action Agenda

- **A.** Good Cause
- **B.** MOU – Teamsters Local 79 and LA-MSID
- **C.** Changes to Job Descriptions

4) Discussion Agenda

- **A.** Old Business
  1. 2026 Legislative Appropriation
  2. Leeland Bottomless Lake Building
  3. Manager Replacement Strategy and Schedule
- **B.** New Business
  1. 2027-2031 Draft Capital Improvement Plan
  2. 2027-2031 Draft Strategic Plan

3. 2027 Draft Capital Equipment Replacement Plan
4. Evaluation of Manger
5. Hurricane Pay Policy

C. Sheriff's Report
D. Commissioner's Request
E. Engineer's Report
F. Attorney's Report
G. Staff and Financial Report
H. Treasurer's Report
I. Secretary's Report

5) Adjournment

1. PRELIMINARIES

A. CALL TO ORDER

Chair Bonacolta called the meeting to order at 6:00 p.m.

B. ROLL CALL

Deputy Secretary took roll. All Commissioners are present. There is a quorum.

C. INVOCATION AND PLEDGE OF ALLEGIANCE

Commissioner Hollingsworth did the invocation. Commissioner Thompson led the pledge.

D. MOVE, REMOVE AND ADD AGENDA ITEM

District Manager Dave Lindsay recommended removing 3A – Good Cause.

E. APPROVAL OF AGENDA

- *Move to approve the agenda as amended.*
  - *Commissioner Thompson moved*
  - *Commissioner Hollingsworth seconded*
- *Motion was unanimously approved.*

F. ACTION ON REMOVED CONSENT ITEMS

None.

G. APPROVAL OF CONSENT AGENDA

- *Move to approve the Consent Agenda as submitted.*
  - *Commissioner Deetscreek moved*
  - *Commissioner Thompson seconded*
- *Motion was unanimously approved.*

H. PUBLIC COMMENT FOR AGENDA ITEMS AND NON AGENDA ITEMS

Derek Felder submitted a comment card. Attention brought to the 5-year capital plan discussed paving the parking lot and he feels that the parking lot is fine and does not need paving. Another item is the Moving Water South project and then the 5K coming up in July. Not sure if it is possible for LA-MSID to sponsor but there are sponsorships available. Budget committee for the Streetlighting Committee. Budget hearing coming up on Thursday.

2. CONSENT AGENDA

A. Invoices and Change Orders
Move to approve all invoices as stated on the Summary Sheet.

B. Approval of Minutes – March 16, 2026 Regular Meeting
Move to approve the minutes of the March 16, 2026 Regular Board Meeting.

C. PER #26-14 – El Car Wash – 2701 Lee Blvd
Move to approve Permit #26-14, El Car Wash, with any listed stipulations.

D. PER #26-51 – Century Link-Lumen Bore under Gunner Canal (46-22-3) at Park Rd.
Move to approve PER # 26-51, Century Link-Lumen Bore under Gunner Canal (46-22-32) at Park Road, with any listed stipulations.

E. PER #26-53 – Century Link-Lumen Bore under Angelfish Canal (46-28-2) at Gunnery Rd.
Move to approve PER # 26-53, Century Link-Lumen Bore under Angelfish Canal (46-28-2) at Gunnery Road, with any listed stipulations.

F. PER # 26-57 – Comcast Bore under Cabio Canal (46-25-2) at 12th St. W.
Move to approve PER # 26-57, Comcast Bore under Cabio Canal (46-25-2) at 12th St. W., with any listed stipulations.

G. PER # 26-58 – Comcast Bore under Shrike Canal (57-24-8) at Bari St. E.
Move to approve PER # 26-58, Comcast Bore under Shrike Canal (57-24-8) at Bari St. E., with any listed stipulations.

H. PER #26-59 - Comcast Bore under Shrike Canal (57-24-8) at Isabella St.
Move to approve PER # 26-59, Comcast Bore under Shrike Canal (57-24-8) at Isabella St., with any listed stipulations.

I. PER #26-60 – Comcast Bore under Snipe Canal (57-24-7) at Naples Ave. S.
Move to approve PER # 26-60, Comcast Bore under Snipe Canal (57-24-7) at Naples Ave. S., with any listed stipulations.

J. PER #26-64 - Comcast Bore under Sandhill Canal (57-2-7) at Sentinella Blvd.
Move to approve PER #26-64, Comcast Bore under Sandhill Canal (57-2-7) at Sentinella Blvd., with any listed stipulations.

K. PER #26-65 – Comcast Bore under Plover Canal (57-11-4) at Butler St. E.
Move to approve PER #26-65, Comcast Bore under Plover Canal (57-11-4) at Butler St. E., with any listed stipulations.

L. PER #26-66 – Comcast Bore under Bald Eagle Canal (57-36-2) at SR 82
Move to approve PER #26-66, Comcast Bore under Bald Eagle Canal (57-36-2) at SR 82., with any listed stipulations.

M. PER #26-67 – FGUA Waterline Bore under Amberjack Canal (46-31-2) at 28th St. SW
Move to approve PER #26-67, FGUA Waterline Bore under Amberjack Canal (46-31-2) at 28th St., SW., with any listed stipulations.

N. PER #26-20, #26-21, #26-24, #26-25 & #26-26, Lumos Bores
Move to approve PER #26-20, #26-21, #26-24, #26-25 & #26-26, Lumos Bores., with any listed stipulations.

O. PER #26-30, #26-32, #26-33, #26-34, #26-35, #26-36, #26-37 & #26-38, – Lumos Bores
Move to approve PER # 26-49, LCEC aerial crossing over Anhinga Canal (57-10-1) at Bell Blvd., with any listed stipulations.

P. PER #26-44 & #26-45, Lumos Bores
Move to approve PER #26-44 & #26-45, Lumos Bores., with any listed stipulations.

3. ACTION AGENDA

A. Good Cause

None.

B. MOU- Teamster Local 79 and LA-MSID

District Manager Dave Lindsay gave an overview. The only positions currently considered "safety sensitive" are those who hold CDLs. After meeting with the Union, it was recommended that every position covered under the CBA are safety sensitive to a degree and should be designated as such. This would make every position subject to random drug testing. Discussion ensued

- *Move to approve the proposal by to accept the MOU between the Teamsters Local 79 and LA-MSID to designate all staff covered under the CBA as "Safety Sensitive" positions which will result in these positions being subject to random drug testing.*
  - *Commissioner Hollingsworth moved*
  - *Commissioner Deetscreek seconded*
- *Motion was unanimously approved.*

C. Changes to Job Descriptions

Resources and Relations Director Lisa Waskiewicz gave an overview of the changes. Discussion ensued.

- *Move to approve updated job descriptions.*
  - *Commissioner Deetscreek moved*
  - *Commissioner Thompson seconded*
- *Motion was unanimously approved.*

4. DISCUSSION AGENDA

A. Old Business

1. **2026 Legislative Appropriation**
   District Manager Dave Lindsay and Attorney Seth Behn gave an update on the special session.

2. **Leeland Bottomless Lake Building**
   District Manager Dave Lindsay and Attorney Seth Behn gave an update on the progress.

3. **Manager Replacement Strategy and Schedule**
   District Manager Dave Lindsay gave an overview of what the succession plan contained. Discussion ensued as to how to create a timeline for replacement. The board requested a timeline at next month's meeting and draft position advertisement.

B. New Business

1. **2027-2034 Draft Capital Improvement Plan**
   District Manager Dave Lindsay gave an overview.

2. **2027-2031 Draft Strategic Plan**
   District Manager Dave Lindsay gave an overview.

3. **2027 Draft Capital Equipment Replacement Plan**
   Assistant District Manager Mike Cook gave an overview.

4. **Evaluation of Manager**
   Commissioners were given a copy of the Evaluation and were asked to return it by the next Board meeting (June 15, 2026).

5. **Hurricane Pay Policy**
   Finance Director Dana March spoke about the importance of having an established policy in place prior to a Hurricane as this helps to expedite payment from FEMA

C. Sheriff's Report
None.

D. Commissioner's Request
None.

E. Engineer's Report
Report is in the packet. Daniel Schroeder gave project updates on

F. Attorney's Report
Report is in the packet. District Attorney Seth Behn gave an update on ongoing projects and legislation to be watching during the special session.

G. Staff and Financial Report
Report is in the packet.

H. Treasurer's Report
Report is in the packet.

I. Secretary's Report
None.

6. ADJOURNMENT

Motion to adjourn was made by Commissioner Deetscreek. Seconded by Commissioner Thompson. All in favor. Meeting adjourned at 6:50 P.M.

Reviewed by: _____
Secretary, David Deetscreek

ADOPTED ON: June 15, 2026 _____
Chair, Michael Bonacolta

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: PER #25-49 (M1), Minor Modification Sunniland Commons – 3650 5th St. W.

Meeting Date: June 15, 2026

Agenda Item # 2C

[x] **CONSENT** [ ] **ACTION** [ ] **OLD BUSINESS** [ ] **NEW BUSINESS**

Request Initiated By: [ ] **COMMISSIONER** _____ [ ] **ATTORNEY**

[ ] **BOARD** [x] **MANAGER** [ ] **ENGINEER** [ ] **AUDITOR**

Recommended motion: Move to approve Permit 2025-49, (M1) Minor Modification-Sunniland Commons, with any listed stipulations.

What the action accomplishes: Allows Sunniland Commons, to develop an commercial site at 3650 5th St. W., while certifying on their plans that their stormwater facilities are adequate and able to discharge less than 30 CSM.

Fiscal Impact: Permit Fees: $500.00

Staff comments: Approved according to the revised plans submitted May 7, 2026.

Staff review and recommended approval:

[x] **MANAGER** [ ] **ASSISTANT DISTRICT MGR**

[ ] **ATTORNEY** [ ] **FIELD SUPERINTENDENT**

[x] **ENGINEER** [x] **CONTROLLER**

Board Action:

[ ] **APPROVED** [ ] **DENIED** [ ] **DEFERRED**

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Sunniland Commons LLC, 270 West Plant Street, Suite 210, Winter Garden, FL 34787, hereinafter referred to as the "Permittee") as a non-exclusive permit for a commercial development "Sunniland Commons" (31.71 +/- acres), located at 3650 5th St. W., with an on-site detention system, two stormwater outfall pipes and a road ditch drainage connection into Angelfish Canal (46-26-3), with ultimate discharge to the Orange River, in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or

removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 25-49 (M1)

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #25-49 (M1) is approved according to the revised plans, calculations and ownership documents submitted May 7th, 2026 with the following stipulations:

2). Per LAMSID permit policy section 4.28.3 – Culvert Design Criteria: please revise the outfall pipe headwalls (ST-01, ST-02 & ST-03) to mitered end sections with rip rap placed around them and down the slope of the canal bank to prevent erosion. An outfall pipe marker sign should be placed on the development side of the canal right of way line over top each outfall pipe indicating their locations (do not place the sign inside the canal right of way).

3). Maintenance of the entire on-site storm water management system, including the control structures and outfall pipes are the responsibility of the Permittee. Changes in ownership or maintenance of the storm water management system must be submitted (in writing) to LAMSID within 30 days of the change.

4). An "As-Built" survey showing the completed improvements (including perimeter berm, all pipe inverts and outfall structure elevations) must be submitted to Lehigh Acres - MSID within 30 days following completion of the improvements.

5). Please provide Lehigh Acres - MSID with copies of all applicable permits from other governing agencies prior to commencing construction.

PART I

DATE SUBMITTED: 05 - 07 - 26

PERMIT #: 25 - 49 (MM)

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: Atwell, LLC **PHONE #:** (239)939-5490

PROJECT NAME: Sunniland Commons

TOTAL ACREAGE: 31.71

Property Address (STRAP associated with this address will be used as the primary STRAP for this project):					
Mailing Address:	3650 5th St W				
City:	Lehigh Acres	**State:**	FL	**Zip:**	33971

STRAP NUMBERS (*attach additional sheet if necessary*):

26	-	44	-	26	-	L4	-	0	0	0	0	0	-	0	0	1	0
26	-	44	-	26	-	L4	-	0	0	0	0	3	-	0	0	0	0
	-		-		-		-						-				
	-		-		-		-						-				
	-		-		-		-						-				

Brief description of proposed project:

Application for:

Modification of existing LAMSID #25-49 to support revisions with SFWMD property ownership update and offsite associated improvementws on Sunniland Blvd and Lee Blvd.

Is the project proposed to be developed in phases? ☐ Yes ☒ No

Estimated # of Phases:	1	
***Permit Fee:**	$500.00 (Modification)	**(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	Sunniland Commons LLC						
Mailing Address:	**Street:**	270 West Plant Street, Suite 210					
City:	Winter Garden	**State:**	FL		**Zip:**	34787	
Phone No.	**Area Code:**	314	**Number:**	283 - 4940	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	jfedak@wmgdevelopment.com						

B. **Relationship of applicant to property*:**

☒ **Owner*** ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee***

☐ **Contract Purchaser*** ☐ **Other (indicate)*** _____

C.

Name of Developer:	Sunniland Commons LLC					
Mailing Address:	**Street:**	270 West Plant Street, Suite 210				
City:	Winter Garden	**State:**	FL	**Zip:**	34787	
Phone No.	**Area Code:**	(314)	**Number:**	283 - 4940	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:	jfedak@wmgdevelopment.com					

D.

Name of Authorized Agent(s):	Rachel Tracey, P.E. - Atwell, LLC					
Mailing Address:	**Street:**	10511 Six Mile Cypress Pkwy, Suite 101				
City:	Fort Myers	**State:**	Florida	**Zip:**	33966	
Phone No.	**Area Code:**	(239)	**Number:**	939 - 5490	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:	rtracey@atwell.com					

E.

Name of Property Owner:	Sunniland Commons LLC					
Mailing Address:	**Street:**	270 West Plant Street, Suite 210				
City:	Winter Garden	**State:**	FL	**Zip:**	34787	
Phone No.	**Area Code:**	(314)	**Number:**	283 - 4940	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:	jfedak@wmgdevelopment.com					

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

PRIMARY STRAP NUMBER: 26-44-26-L4-00003-0010

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock
Sunniland Commons, LLC	
270 W Plant Street #210	100%
Winter Garden, FL 34787	

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

SIGNATURE OF APPLICANT

JONATHAN DRUMLEVE
PRINTED OR TYPED NAME OF APPLICANT

STATE OF ~~FLORIDA~~ ILLINOIS
COUNTY OF ~~LEE~~ EFFINGHAM

The foregoing instrument was acknowledged before me this 15TH day of APRIL (m), 2020 (y), by JONATHAN DRUMLEVE who is personally know to me or has produced _____ as identification.

OFFICIAL SEAL
BROOKE LEIGH KOCHER
Notary Public, State of Illinois
Commission No. 1017177
My Commission Expires September 15, 2020

SIGNATURE OF NOTARY PUBLIC

Brooke Kocher
PRINTED NAME OF NOTARY PUBLIC

NOTE: Conversion vertical datum from NGVD to NAVD
- 1.191 FT

PART VI

SUBMITTALS

NO. OF COPIES SUB'D	NO. OF COPIES REQ'D	SUBMITTAL DOCUMENT
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
2	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** 3.50 (ACRE-FT) **Water Quality Volume (Provided):** 3.51 (ACRE-FT) **Control Elevation:** 17.81 (FT-NGVD) (19.0 ft - NAVD) **Minimum Road/Parking Elevation:** 21.91 (FT-NGVD) (23.10 ft - NAVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** 22.11 (FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** 23.31 (FT-NGVD) (23.3 ft - NAVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
2	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
N/A	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
2	1	**Check for appropriate Permit Fees** made out to LA-MSID.

ATWELL

May 7, 2026

Lehigh Acres Municipal Services Improvement District
601 East County Lane
Lehigh Acres, Florida 33936

Reference: **Sunniland Commons**
LAMSID Permit Modification to Permit #25-49

To Whom It May Concern,

The above-mentioned project proposes a minor modification to existing LAMSID permit #25-49 for Sunniland Commons. Proposed modifications outlined below:

- Please note the ownership of the property has changed to Sunniland Commons LLC (Previously there was a contract to purchase) and therefore updated signature pages and warranty deeds area enclosed for Parcel with STRAP 26-44-26-L4-00003.0010 and STRAP 26-44-26-L4-00003.0000. A letter of ownership change is also enclosed.

- After approval of LAMSID Permit #25-49 the South Florida Water Management District (SFWMD) requested minor updates. Therefore, the revised on-site stormwater management report is enclosed and updated plans. A copy of the approved SFWMD ERP for on site is also included for quick reference. The project is generally the same with minor updates east and west as requested by SFWMD Staff.

- Please see enclosed narrative for the works in the Sunniland Boulevard Right of Way. The narrative is under "Sunniland Boulevard ROW Stormwater Management Narrative". Please note the on-site Sunniland Commons ERP provided for compensating water quality to support work in the Sunniland Boulevard and Lee Boulevard Right of Ways. The Sunniland Boulevard Right of Way improvements include an additional 1.04 acres of additional pavement and sidewalks. In addition to this item and as reviewed with Mike Cook via phone we also provided a BMP Trains model for the works in the Sunniland Boulevard Right of Way to ensure in addition to the compensating water quality we are reducing the nutrient loading specifically in the right of way prior to discharge to LAMSID canal. Note the Structure ST-00 is set at 3" above swale bottom to perform as a ditch block prior to discharge to the LAMSID canal.

- This project also includes off site work in the Lee Boulevard Right of Way. An ERP Permit minor modification is proposed for the additional improvements. The modification will be to existing ERP Permit 36-00142-S-73. The on site project permitted under ERP Application Number 250708-54727 provided compensating water quality for a total of 1.36 acres of off site impervious area. There is off site work in the Sunniland Boulevard Right of Way mentioned before (concurrent ERP) totals 1.04 acres and the additional impervious on the Lee Boulevard is proposed at lanes is 0.19 acres which is under the allotted 1.36 acres of compensation provided.

Please note the updates request approval for the on site work updates and the off site works proposed in the Sunniland Boulevard Right of Way and the Lee Boulevard Right of Way.

Attached please find the following items being submitted for review:

RECEIVED
MAY 07 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

One (1) of each of the following items is included with this submittal:
1. Check in the amount of $500.00 for the permit modification application fee
2. CD with PDF and AutoCAD file of Engineering Plans

Two (2) copies of the following items are included with this submittal:
1. Copy of existing LAMSID 25-49 Approval
2. Sunniland Blvd ROW Stormwater Management Narrative (Work in the Sunniland Boulevard ROW)
3. Revised On Site Stormwater Management Report (Work in the on site parcels and 5th Street W)
4. Revised Engineering Plans

10511 Six Mile Cypress Parkway, Fort Myers, FL 33966 | 239-939-5490
www.atwell.com

5. Revised Application for a Permit
6. Revised LAMSID Signatures
7. Change of Ownership Package:
    a. LAMSID Change of Ownership Letter from WMG Acquisitions LLC to Sunniland Commons LLC
    b. Warranty Deed (Under one Deed)
    c. Property Data Pages 3614 5th ST W & 3650 5th ST W
    d. Disclosure of Ownership Signature
8. Copy of Approved on Site SFWMD ERP 250708-54727

If you have any questions regarding this submittal, please feel free to contact me at our Fort Myers office.

Sincerely,
ATWELL, LLC

Rachel Tracey, P.E.
Project Manager
rtracey@atwell.com

Cc: Megan Knight, mknight@atwell.com

Entity	Name	Acct No	Invoice	Date	Info	Reference	Amount
SL9000	Sunniland Commons, LLC	1630	053679	4/14/2026	Lehigh Acres	Permit resubmission fee	500.00

Permit #25-49 (MI)

COPY

RECEIVED
MAY 07 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

		Date	Check No.	Check Amount
Payor:	Sunniland Commons, LLC	4/17/2026	000046	500.00
Payee:	LEHIGH ACRES MSID			

Retain this statement for your records

THIS CHECK HAS A COLORED BACKGROUND AND CONTAINS MULTIPLE SECURITY FEATURES - SEE BACK FOR DETAILS

Sunniland Commons, LLC
270 West Plant Street, Suite 210
Winter Garden, FL 34787

Midland States Bank
110 South 5th Street
Effingham, IL 62401

70-454
812

Date
4/17/2026

Check No.
000046

COPY

Check Amount
500.00

Five Hundred AND 00/100 Dollars

VOID IF NOT CASHED WITHIN 90 DAYS WITHIN DATE OF ISSUE

Pay to the order of:

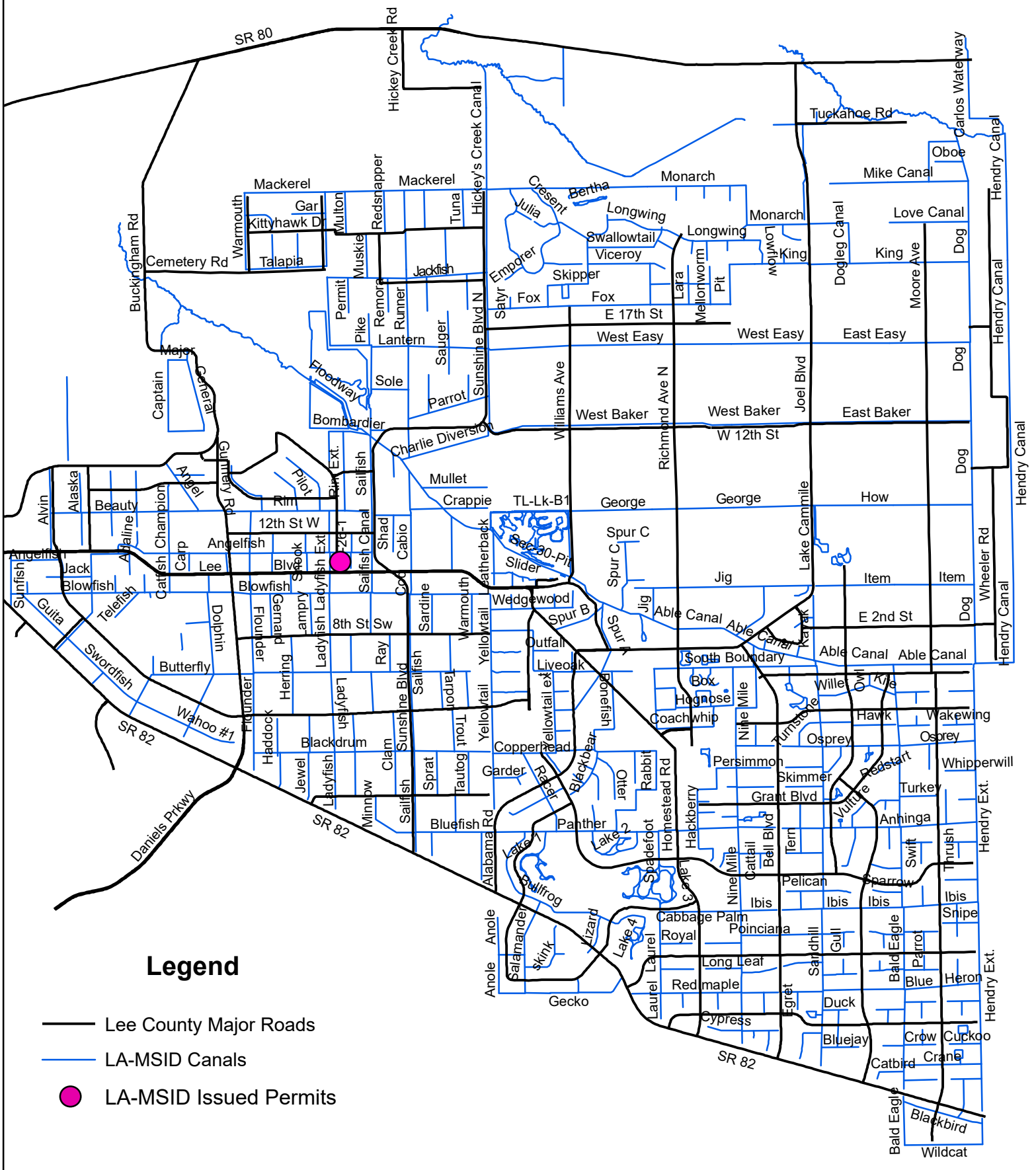
LEHIGH ACRES MSID
LA-MSID

HEAT SENSITIVE RUB AREA TO VERIFY

Brent Esker

⑈000046⑈ ⑆081204540⑆ 20009156 12⑈

Permit # 2025-49 (M1)



Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

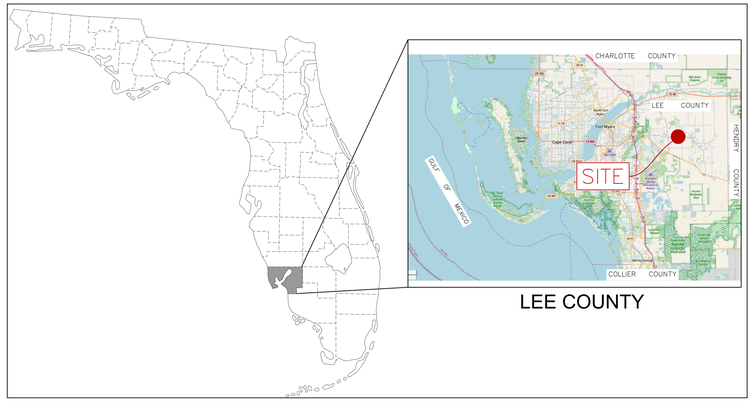
SUNNILAND COMMONS

DEVELOPMENT ORDER PLANS

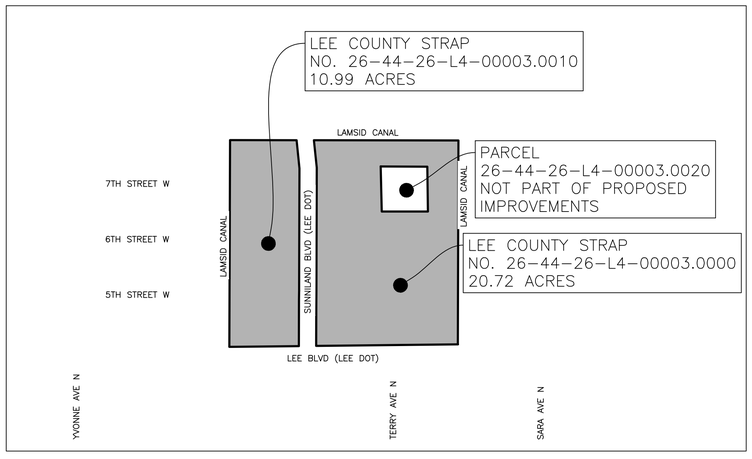
PREPARED FOR:

WMG ACQUISITIONS, LLC

270 WEST PLANT STREET
WINTER GARDEN, FL 34787
PHONE: (217) 690-5578



GENERAL LOCATION MAP



LOCATION MAP

SECTION 26

TOWNSHIP 44 SOUTH

RANGE 26 EAST

LEE COUNTY, FL

SITE INFORMATION

PROJECT AREA:	31.71 AC
PARCEL STRAP NO:	26-44-26-L4-00003.0010 26-44-26-L4-00003.0000
PARCEL ADDRESS:	3650 5TH ST. W. LEHIGH ACRES, FL 33971 3614 5TH ST. W. LEHIGH ACRES, FL 33971
CURRENT ZONING:	SUNNILAND TOWN CENTER CPD, Z-24-012
PROPOSED USE:	MIXED-USE

UTILITY SERVICE PROVIDERS

WATER:	
FLORIDA GOVERNMENTAL UTILITY AUTHORITY	9400 SOUTHPARK CENTER LOOP, SUITE 400 ORLANDO, FL 32819 PHONE: (887) 552-3482
SEWER:	
FLORIDA GOVERNMENTAL UTILITY AUTHORITY	9400 SOUTHPARK CENTER LOOP, SUITE 400 ORLANDO, FL 32819 PHONE: (887) 552-3482
ELECTRIC:	
LEE COUNTY ELECTRIC COOPERATIVE	P.O. BOX 3455 NORTH FORT MYERS, FL 33918 PHONE: (239) 656-2300
PHONE:	
LUMEN	2820 CARGO STREET FORT MYERS, FL 33916 PHONE: (239) 336-2020
CABLE:	
COMCAST CABLEVISION	12600 WESTLINKS DR FORT MYERS, FL 33913 PHONE: (239) 432-1805
FIRE PROTECTION:	
LEHIGH ACRES FIRE CONTROL AND RESCUE DISTRICT	636 THOMAS SHERWIN AVENUE S LEHIGH ACRES, FL 33974 PHONE: (239) 303-5300
SOLID WASTE DISPOSAL:	
WASTE PRO OF FLORIDA INC.	13110 RICKENBACKER PARKWAY FORT MYERS, FL 33913 PHONE: (239) 337-0800
STORMWATER:	
LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT (LAMSID)	601 EAST COUNTY LANE LEHIGH ACRES, FL 33936 (239) 368-0044

PROJECT CONTACTS

CIVIL ENGINEER:	
ATWELL, LLC RACHEL J. TRACEY P.E., PROJECT MANAGER	10511 SIX MILE CYPRESS PARKWAY, SUITE 101 FORT MYERS, FL 33966 PHONE: (239) 939-5490
SURVEYOR:	
ATWELL, LLC ALLEN M. VOSE P.S.M., PROJECT MANAGER	10511 SIX MILE CYPRESS PARKWAY FORT MYERS, FL 33966 PHONE: (239) 939-5490
ENVIRONMENTAL:	
OWEN ENVIRONMENTAL CONSULTING, LLC PAUL K. OWEN	15957 TROPICAL BREEZE DRIVE FORT MYERS, FL 33908 PHONE: (239) 994-9007
TRAFFIC ENGINEER:	
TR TRANSPORTATION CONSULTANTS, INC. TED TREESH	2726 OAK RIDGE CT. SUITE 503 FORT MYERS, FL 33901 (239) 278-3090

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	AERIAL WITH EXIST. CONDITIONS AND DEMOLITION PLAN
3	GENERAL NOTES
4	PROJECT NOTES AND LEGEND
5	MASTER SITE PLAN
6	SUNNILAND BOULEVARD SIGNAGE AND STRIPING PLAN
7	5TH ST SIGNAGE AND STRIPING PLAN
8	MASTER DRAINAGE PLAN
9	TYPICAL CROSS SECTIONS 01
10	TYPICAL CROSS SECTIONS 02
11	SUNNILAND - CROSS SECTIONS 01
12	SUNNILAND - CROSS SECTIONS 02
13	SUNNILAND - CROSS SECTIONS 03
14	SUNNILAND - CROSS SECTIONS 04
15	5TH STREET - CROSS SECTIONS 01
16	LEE BLVD - CROSS SECTIONS 01
17	LEE BLVD - CROSS SECTIONS 02
18	LEE BLVD - CROSS SECTIONS 03
19	PAVING, GRADING, AND DRAINAGE DETAILS
20	BEST MANAGEMENT PRACTICES
21	LEE BLVD. - EXIST. CONDITIONS AND DEMOLITION PLAN
22	LEE BOULEVARD IMPROVEMENTS
23	MASTER UTILITY PLAN
24	SUNNILAND BOULEVARD PLAN AND PROFILE 01
25	SUNNILAND BOULEVARD PLAN AND PROFILE 02
26	5TH ST W PLAN AND PROFILE 01
27	5TH ST W PLAN AND PROFILE 02
28	LS-01 SEWER FORCEMAIN - PLAN AND PROFILE 01
29	MISC PLANS AND PROFILES 01
30	LEE BOULEVARD PLAN AND PROFILE
31	WATER DETAILS
32	SANITARY SEWER DETAILS
33	LIFT STATION DETAILS 01
34	LIFT STATION DETAILS 02
35	LIFT STATION DETAILS 03
36	FIRETRUCK TURN EXHIBIT

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE101
FORT MYERS, FL 33966
239.939.5490

FGUA PROJECT NUMBER: 25-054-LED

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD88

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 08/07/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES, DO, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

RACHEL J. TRACEY
P.E. LIC. #65322

S:\Units\Mkts\38444\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\COVER SHEET.dwg, 3/4/2026 2:51:25 PM, KEVIN GONZALEZ, ATWELL, LLC

LEGEND:

EXIST. SURFACE DIRECTIONAL FLOW

EXIST. PIPE DIRECTIONAL FLOW

AREA TO BE CLEARED AND FILLED. SEE GRADING PLAN FOR DETAILS. FOR PRESERVE AREA SEE PRESERVE MANAGEMENT PLAN. NO GRADING IN PRESERVE AND CLEARING ONLY FOR EXOTIC VEGETATION.

GENERAL NOTES:

1. PRIOR TO REMOVAL OF RIP RAP AND BANK RESTORATION, NOTIFY ENGINEER AND LAMSID. WORK IN LAMSID CANAL RIGHT OF WAYS TO BE PROPERLY REGRADED AND RESTORED WITH SOD.

2. CONTRACTOR TO CONFIRM NO EXISTING WELLS ON SITE. NONE FOUND IN FIELD AT TIME OF DESIGN. REPORT BACK TO OWNER AND ENGINEER. IF ANY ARE FOUND,THEY ARE TO BE ABANDONED BY A FLORIDA LICENSED WELL CONTRACTOR UNLESS OTHERWISE NOTED.

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

0 80 160
SCALE: 1" = 80'

AERIAL WITH EXIST. CONDITIONS AND DEMOLITION PLAN

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:

WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES, DO, & TxDX	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

811 Know what's below. Call before you dig.

ALL UTILITIES ARE SHOWN BASED ON INFORMATION PROVIDED TO THE ENGINEER. THEIRE IS NO GUARANTEE ALL FACILITIES ARE SHOWN OR THAT THE LOCATION, DEPTH, AND SIZE OF EACH FACILITY IS ACCURATE. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION.

RACHEL J. TRACEY
P.E. LIC. #65322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT

PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88

BOOK AND PAGE:

SHEET 2

S:\Atwell\8844\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\AERIAL WITH EXIST. CONDITIONS AND DEMOLITION PLAN.dwg, 3/5/2026 2:51:43 PM, KEVIN.GONZALEZ, ATWELL, LLC

PRE-BID SUBMITTAL:

THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING TO FAMILIARIZE HIMSELF WITH THE CONDITIONS FOR CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER A WRITTEN LIST OF ALL PERMITS AND COPIES THEREOF, AND CAREFULLY REVIEW ALL PLANS, SPECIFICATIONS, AND PERMITS PREVIOUSLY SECURED ON BEHALF OF THE OWNER. IN CASE OF ANY DISCREPANCY EITHER IN PERMIT DOCUMENTS, PLANS, DRAWINGS, OR SPECIFICATIONS, THE CONTRACTOR MUST PROMPTLY SUBMIT A "WRITTEN CLARIFICATION REQUEST" TO THE OWNER, WHO WILL PROMPTLY FORWARD THE REQUEST TO THE ENGINEER WHO WILL MAKE A DETERMINATION IN WRITING. THE CONTRACTOR MUST VERIFY EXISTING FACILITY INFORMATION, AND ALL DESIGN/PERMIT DATA REQUIRED FOR WORK THAT IS TO CONNECT WITH EXISTING FACILITIES. ANY DISCREPANCIES BETWEEN THE CONTRACT REQUIREMENTS AND THE EXISTING CONDITIONS MUST BE REFERRED TO THE OWNER IN WRITING, FOR AN ENGINEERING DETERMINATION. ANY FUTURE ADJUSTMENT DUE TO FAILURE BY THE CONTRACTOR TO IDENTIFY THE RELATED DISCREPANCY, WILL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY LICENSES, ADDITIONAL PERMITS, AND FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS IN CONNECTION WITH THE PERFORMANCE OF THE WORK.

CONSTRUCTION SAFETY AND LIABILITY:

THE CONTRACTOR MUST TAKE PROPER SAFETY AND HEALTH PRECAUTIONS TO PROTECT THE WORK, THE WORKERS, THE PUBLIC, AND THE PROPERTY OF OTHERS. THE CONTRACTOR IS RESPONSIBLE ALSO FOR ALL MATERIALS DELIVERED AND WORK PERFORMED UNTIL COMPLETION AND ALL ACCEPTANCES HAVE BEEN OBTAINED. THE CONTRACTOR SHALL MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE STATE OF FLORIDA ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION). THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO PERSONS OR PROPERTY THAT OCCURS AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE. THE CONTRACTOR MUST SAVE HARMLESS AND INDEMNIFY THE OWNER AND THE ENGINEER OF RECORD, ITS OFFICERS, REPRESENTATIVES AND EMPLOYEES FROM ALL CLAIMS, LOSS, DAMAGE, ACTIONS, CAUSES OF ACTION, AND/OR EXPENSES RESULTING FROM, BROUGHT FOR, OR ON ACCOUNT OF ANY PERSONAL INJURY OR PROPERTY DAMAGE RECEIVED OR SUSTAINED BY ANY PERSONS OR PROPERTY GROWING OUT OF OCCURRING, OR ATTRIBUTABLE TO ANY WORK PERFORMED UNDER OR RELATED TO THIS CONTRACT, RESULTING IN WHOLE OR IN PART FROM THE NEGLIGENT ACTS OR OMISSIONS OF THE CONTRACTOR, ANY SUBCONTRACTOR, OR ANY EMPLOYEE, AGENT, OR REPRESENTATIVE OF THE CONTRACTOR OR ANY SUBCONTRACTOR.

PRE-CONSTRUCTION:

THE OWNER SHALL SECURE PRIOR TO CONSTRUCTION A PROFESSIONAL LAND SURVEYOR TO PERFORM AN "AS-BUILT" SURVEY OF ALL COMPLETED IMPROVEMENTS. THE OWNER SHALL ALSO SECURE PRIOR TO CONSTRUCTION A PROFESSIONAL ENGINEER TO PROVIDE THE APPROPRIATE SERVICES NEEDED IN ORDER TO CERTIFY TO ALL APPLICABLE REGULATORY AGENCIES THAT THE IMPROVEMENTS WERE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH ALL APPLICABLE PERMITS AND APPROVALS. THE OWNER SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, SURVEYOR, CONTRACTOR, TESTING LAB, UTILITY COMPANIES, AND APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWINGS SUBMISSION SCHEDULE FOR ALL PROPOSED COMPONENTS. THE CONTRACTOR SHALL NOT INITIATE CONSTRUCTION OF ANY PORTION OF THE IMPROVEMENTS UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED FOR THAT PORTION BY THE ENGINEER. THE OWNER, CONTRACTOR, ENGINEER AND UTILITY COMPANY SHALL ALSO DISCUSS ALL DOCUMENTATION REQUIRED FOR CONTRIBUTED FACILITIES TRANSFER FROM THE OWNER/DEVELOPER TO THE UTILITY COMPANY UPON PROJECT COMPLETION, UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, THE FOLLOWING DOCUMENTS SHALL BE PROVIDED:

DOCUMENTS REQUIRED FOR CONTRIBUTED FACILITIES FROM DEVELOPER TO UTILITY COMPANY:

1. UTILITY EASEMENT(S): MUST BE RECORDED AT COUNTY CLERK OF COURT OFFICE BEFORE SUBMITTING TO UTILITY.
2. EASEMENT ACKNOWLEDGEMENT.
3. AFFIDAVIT.
4. RELEASE OF LIEN.
5. BILL OF SALE.
6. ASSIGNMENT OF RIGHTS UNDER UTILITY AGREEMENT: WHEN PROPERTY HAS BEEN TRANSFERRED TO A NEW OWNER.
7. RECORD DRAWINGS (AS-BUILT): MUST BE SIGNED AND SEALED BY ENGINEER OF RECORD, SUBMIT TWO REPRODUCIBLE COPIES OF PRINTS.
8. DETAILED COST OF CONSTRUCTION: MUST INCLUDE INDIVIDUAL ITEMS OR APPURTENANCES, UNIT COST AND TOTAL COST OF EACH. DO NOT INCLUDE WATER SERVICE LINES OR SEWER LATERALS.
9. DESCRIPTION OF FACILITIES: A SHORT EXPLANATION DEPICTING WHAT HAS BEEN CONSTRUCTED.
10. D.E.P. APPLICATION(S).
11. INSPECTION REPORT(S).
12. PRESSURE TEST REPORT(S).
13. INFILTRATION-EXFILTRATION TEST REPORT(S), INCLUDING VIDEO TAPES AND LAMPING REPORTS.
14. LIFT STATION INSPECTION (START-UP) REPORT(S) AND EQUIPMENT SHOP DRAWINGS.
15. BACTERIOLOGICAL TEST REPORT(S).
16. ENGINEER'S CERTIFICATE OF SUBSTANTIAL COMPLETION TO D.E.P.
17. SYSTEM(S) ACCEPTANCE LETTER(S) FROM D.E.P.

NOTES: ITEM 1-6 & 8 TO BE SUPPLIED BY OWNER. ITEMS 7 & 9-17 TO BE SUPPLIED TO ENGINEER OF RECORD.

UNLESS OTHERWISE SPECIFIED BY THE UTILITY, THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENTS OF THE WATER, GAS, SEWER, TELEPHONE, AND POWER COMPANIES, 10 DAYS IN ADVANCE, THAT THE CONTRACTOR INTENDS TO START WORK IN A SPECIFIC AREA. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF SEWERS, DRAINS, WATER LINES, GAS LINES, CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE, RIGHT-OF-WAY, OR EASEMENT.

ENVIRONMENTAL PROTECTION DURING CONSTRUCTION:

PROTECTION OF LAND RESOURCES - EXCEPT IN AREAS IDENTIFIED ON THE PLANS TO BE CLEARED, THE CONTRACTOR MUST NOT DEFACE, INJURE, OR DESTROY TREES OR SHRUBS OR REMOVE OR CUT THEM WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. IN THE ABSENCE OF A CLEARING PLAN, AREAS SHOWN FOR IMPROVEMENTS SHALL BE CLEARED UNLESS NOTED OTHERWISE.

PROTECTION OF WATER RESOURCES - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, REGIONAL COUNTY AND MUNICIPAL LAWS CONCERNING POLLUTION OF WATER RESOURCES. ALL WORK MUST BE PERFORMED IN SUCH A MANNER THAT OBJECTIONABLE CONDITIONS WILL NOT BE CREATED IN PUBLIC WATERS RUNNING THROUGH, OR ADJACENT TO THE PROJECT AREA.

1. EROSION AND SEDIMENT CONTROL - ALL PRACTICAL AND NECESSARY EFFORT SHOULD BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND THE TRANSPORT OF SEDIMENT TO SURFACE DRAINS, SURFACE WATER, OR ONTO OTHER PROPERTY BY ANY OR ALL OF THE FOLLOWING METHODS:
   A. STORMWATER FACILITIES ARE TO BE BUILT AS EARLY IN THE CONSTRUCTION PHASE AS POSSIBLE TO ENSURE THE TREATMENT OF STORMWATER RUNOFF. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, HOWEVER, SUCH AS BERMS, SEDIMENT BASINS, GRASSING, SODDING, SAND BAGGING, BALED HAY OR STRAW, FLOATING SILT BARRIERS, STACKED SILT BARRIERS, ETC., MUST BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT FACILITIES ARE COMPLETED AND OPERATIONAL.
   B. REVEGETATION AND STABILIZATION OF DISTURBED GROUND SURFACES SHOULD BE ACCOMPLISHED AS SOON AS POSSIBLE.
   C. FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES.
   D. PROHIBIT THE USE OF ANY CONSTRUCTION EQUIPMENT THAT LEAKS EXCESSIVE AMOUNTS OF FUEL OIL, OR HYDRAULIC FLUID.
2. ALL DISTURBED AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. EXCEPT RETENTION AREAS, AND SHALL BE STABILIZED BY SODDING, EXCEPT WHERE SEEDING AND MULCHING ARE CALLED FOR ON THE PLANS. THE LATEST VERSION OF THE F.D.O.T. ROAD AND BRIDGE SPECIFICATIONS SHALL BE USED UNLESS MORE RESTRICTIVE LOCAL SPECIFICATIONS EXIST.

   CONTRACTOR RESPONSIBLE FOR STABILIZING AND MAINTAINING SLOPES AND SOD THROUGHOUT CONSTRUCTION UNTIL SUCH TIME AS APPROVED BY THE ENGINEER.

PROTECTION OF FISH AND WILDLIFE:

THE CONTRACTOR MUST AT ALL TIMES PERFORM ALL WORK IN A WAY AND TAKE SUCH STEPS AS REQUIRED TO PREVENT ANY INTERFERENCE WITH OR DISTURBANCE TO FISH AND WILDLIFE. THE CONTRACTOR SHALL NOT ALTER WATER FLOWS OR OTHERWISE DISTURB NATIVE HABITATS AND JURISDICTIONAL WETLANDS LOCATED WITHIN AND / OR ADJACENT TO THE PROJECT AREA.

RECORDING AND PRESERVING HISTORICAL AND ARCHEOLOGICAL FINDS:

ALL ITEMS HAVING ANY APPARENT HISTORICAL OR ARCHEOLOGICAL INTEREST THAT ARE DISCOVERED IN THE COURSE OF ANY CONSTRUCTION ACTIVITIES MUST BE CAREFULLY PRESERVED. THE CONTRACTOR MUST LEAVE THE ARCHEOLOGICAL FIND UNDISTURBED AND MUST IMMEDIATELY REPORT THE FIND TO THE OWNER SO THAT THE PROPER AUTHORITY MAY BE NOTIFIED.

EARTHWORK:

1. GENERAL

1.01 SUBMITTALS

A. EROSION AND CONTROL MEASURES
B.COMPACTION TESTS
C. SOIL CLASSIFICATION TESTS
D. PRESERVATION PLANS

1.02 SITE EXAMINATION

A. CONTRACTORS, BEFORE SUBMITTING BIDS, SHALL INFORM THEMSELVES AS TO LOCATION AND NATURE OF THE WORK, CHARACTER OF EQUIPMENT AND FACILITIES NEEDED FOR PERFORMANCE OF THE WORK, GENERAL AND LOCAL CONDITIONS PREVAILING AT THE SITE, AND OTHER MATTERS WHICH MAY IN ANY WAY, AFFECT THE WORK UNDER CONTRACT.
B.EXAMINE SOURCES OF INFORMATION CONCERNING GROUND WATER LEVEL, WHETHER SURFACE OR SUBSURFACE. EACH BIDDER TO DRAW HIS OWN CONCLUSION CONCERNING GROUND WATER LEVELS AND HOW WATER AFFECTS HIS WORK.

1.03 SUBSURFACE INVESTIGATIONS

A. SUBSURFACE DATA, INCLUDING GROUND WATER ELEVATIONS OR CONDITIONS, IF SHOWN ON THE DRAWINGS OR ATTACHED TO THESE SPECIFICATIONS, ARE PRESENTED ONLY AS INFORMATION THAT IS AVAILABLE WHICH INDICATED CERTAIN CONDITIONS FOUND AND LIMITED TO THE EXACT LOCATIONS, SHALL NOT BE INTERPRETED AS AN INDICATION OF CONDITIONS THAT MAY ACTUALLY BE DEVELOPED THROUGH THE PERIOD OF CONSTRUCTION. BIDDERS SHALL EXAMINE THE SITE OF THE WORK AND MAKE THEIR OWN DETERMINATION OF THE CHARACTER OF MATERIALS AND THE CONDITIONS TO BE ENCOUNTERED ON THE WORK, AND THEIR PROPOSAL SHALL BE BASED UPON THEIR OWN INVESTIGATIONS. THE OWNER AND ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR VARIATIONS FOUND TO EXIST BETWEEN THE ATTACHED DATA ABOVE REFERRED TO AND ACTUAL FIELD CONDITIONS THAT DEVELOP THROUGH THE PERIOD OF CONSTRUCTION.
B.WHERE EXISTING GRADES, UTILITY LINES AND SUBSTRUCTURES ARE SHOWN ON THE DRAWINGS, THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR CORRECTNESS OF EXISTING CONDITIONS INDICATED. THE CONTRACTOR SHALL ASCERTAIN EXACT LOCATIONS OF UTILITIES AND SUBSTRUCTURES THAT MAY BE AFFECTED BY THIS PROJECT, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INJURY THAT MAY RESULT FROM WORKING ON OR NEAR THOSE UTILITIES, SUBSTRUCTURES WHICH ARE NOT TO BE REMOVED OR DEMOLISHED.
C. THE CONTRACTOR SHALL MAKE HIS OWN DEDUCTIONS OF THE SUBSURFACE CONDITIONS WHICH MAY AFFECT METHODS OR COST OF CONSTRUCTION AND HE AGREES THAT THE CONTRACTOR WILL MAKE NO CLAIM FOR DAMAGES OR OTHER COMPENSATION EXCEPT SUCH AS ARE PROVIDED FOR IN THE AGREEMENT, SHOULD THE CONTRACTOR FIND CONDITIONS DURING THE PROGRESS OF THE WORK DIFFERENT FROM THOSE AS CALCULATED OR ANTICIPATED BY THE CONTRACTOR.

1.04 BENCHMARKS AND MONUMENTS

A. MAINTAIN CAREFULLY EXISTING BENCH MARKS, MONUMENTS, AND OTHER REFERENCE POINTS IF DISTURBED OR DESTROYED, REPLACE AS DIRECTED.

1.05 JOB CONDITIONS

A. CONDITION OF PREMISES: ACCEPT SITE AS FOUND AND EXCAVATE, FILL, COMPACT, AND BACKFILL SITE AS HEREINAFTER SPECIFIED.
B.PROTECTION
   a. EXISTING STRUCTURES AND PROPERTY: TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES AND FACILITIES; PROVIDE AND PLACE BRACING OR SHORING AS NECESSARY OR PROPER IN CONNECTION THEREWITH; BE RESPONSIBLE FOR SAFETY AND SUPPORT OF SUCH STRUCTURES; BE LIABLE FOR ANY MOVEMENT OR SETTLEMENT, ANY DAMAGE OR INJURY CAUSED THEREBY OR RESULTING THEREFROM. IF AT ANY SAFETY OR ANY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED, CEASE OPERATION, TAKE PRECAUTIONS TO SUPPORT SUCH STRUCTURES AND NOTIFY THE OWNER. RESUME OPERATIONS ONLY AFTER PERMISSION HAS BEEN CHANGED BY THE OWNER.
   b. SIDEWALKS AND STREETS: TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT, SETTLEMENT OR COLLAPSE OF ANY SIDEWALKS, CURBS OR STREET PASSAGES ON ADJOINING SITE; BE LIABLE FOR ANY SUCH MOVEMENT, SETTLEMENT OR COLLAPSE; REPAIR PROMPTLY SUCH DAMAGE WHEN SO ORDERED; INSTALL SUCH SHORING, INCLUDING SHEET PILING, AS MAY BE REQUIRED DURING EXCAVATION, TO PROTECT BANKS, ADJACENT PAVING, STRUCTURES AND UTILITIES.
   c. RESPONSIBILITY: BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING STRUCTURES OR TO EQUIPMENT AND FURNISHINGS HOUSED THEREIN WHICH ARE DUE DIRECTLY OR INDIRECTLY TO CONSTRUCTION OPERATIONS, EXCEPT WHERE REMOVAL IS NECESSITATED BY SITE GRADING OR LOCATION OF NEW BUILDING. USE EVERY POSSIBLE PRECAUTIONS TO PREVENT DAMAGES TO LANDSCAPING, DRIVES, CURBS AND WALKS ON OR ADJACENT TO SITE OF THE WORK AND REPLACE, AT NO EXPENSE TO OWNER, ANY OF SUCH DESTROYED.

2. EXECUTION

2.01 GENERAL

A. ACCOMPLISH IN A MANNER THAT PROVIDES FOR THE SAFETY OF THE PUBLIC AND WORKMEN AND PROVIDE FOR THE PROTECTION OF ALL PROPERTY.
B.CONSTRUCTION: DO NOT CLOSE, OBSTRUCT OR STORE MATERIAL OR EQUIPMENT IN STREETS, SIDEWALKS, ALLEYS OR PASSAGEWAYS WITHOUT A PERMIT IN ACCORDANCE WITH LOCAL ORDINANCES, REGULATIONS AND CODES.
C. INTERFERENCE: CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE WITH ROADS, STREETS, DRIVEWAYS, ALLEYS, SIDEWALKS AND OTHER FACILITIES.
D. PNEUMATIC TOOLS: WORK WITH PNEUMATIC OR VIBRATORY TOOLS WILL BE PERMITTED ONLY IN A MANNER WHICH CAUSES NO RELATED DAMAGES.
E.REMOVAL: UNLESS OTHERWISE NOTED OR SPECIFIED TO BE RELOCATED OR STORED, ALL MATERIALS REMOVED BECOME THE PROPERTY OF THE CONTRACTOR AND ARE TO BE REMOVED COMPLETELY AWAY FROM THE SITE BY THE CONTRACTOR. DO NOT STORE OR PERMIT DEBRIS TO ACCUMULATE ON THE SITE.
F. TEMPORARY STRUCTURES: REMOVE ALL TEMPORARY STRUCTURES WHEN THEY ARE NO LONGER REQUIRED.
G. REPAIR: CLEAN UP, REPAIR OR REPLACE AT NO COST TO OWNER ALL PROPERTY DAMAGED BY REASON OF REQUIRED WORK. ALL PATCHWORK SHALL MATCH EXISTING AND BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER BY CRAFTSMEN SKILLED IN THE TRADE INVOLVED. IN NEWLY GRADED AREAS TAKE EVERY PRECAUTION AND TEMPORARY MEASURE NECESSARY, TO PREVENT DAMAGE FROM EROSION OF FRESHLY GRADED AREA, WHERE ANY SETTLEMENT OR WASHING MAY OCCUR PRIOR TO ACCEPTANCE OF THE WORK, REPAIR AND RE-ESTABLISH GRADES TO THE REQUIRED HEIGHT, AND SLOPES AT NO ADDITIONAL COST TO THE OWNER. THIS APPLIES TO DAMAGE TO THE NEWLY GRADED AREAS WITHIN THE CONSTRUCTION LIMITS AND DAMAGE TO ADJACENT PROPERTIES BY ERODED MATERIAL.

2.02 LOCATIONS AND ELEVATIONS

A. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEYS, MEASUREMENTS AND LAYOUTS REQUIRED FOR PROPER EXECUTION OF THE WORK. LAY OUT LINES AND GRADES FROM EXISTING SURVEY CONTROL SYSTEM AND AS SHOWN ON DRAWINGS.

2.03 CLEARING AND GRUBBING

A. WITHIN LIMITS OF AREA DESIGNATED FOR GRADING AND SITE CONSTRUCTION WORK, REMOVE TREES, BRUSH, STUMPS, WOOD, DEBRIS AND OTHER DELETERIOUS MATERIALS NOT REQUIRED TO REMAIN AS PART OF FINISHED WORK.
B.REMOVE ALL GRASS, PLANTS, VEGETATION AND ORGANIC MATERIAL FROM SAME AREA.

2.04 STRIPPING

A. STRIP ALL TOPSOIL ORGANIC MATERIAL SURFACE LITTER, RUBBLE AND OVERBURDEN FOR ENTIRE DEPTH OF ROOT SYSTEM OF GRASS OR OTHER VEGETATION OVER THE LIMITS OF CONSTRUCTION.
B.STOCKPILE TOPSOIL ON SITE WHERE DIRECTED.

2.05 EXCAVATION

A. BEGIN EXCAVATION AFTER STRIPPING, CLEARING AND GRUBBING WHERE APPLICABLE, HAS BEEN COMPLETED.
B.EXCAVATE TO GRADES REQUIRED TO ACCOMMODATE THE PROPOSED CONSTRUCTION. DEWATER AS NEEDED.
C. REMOVE "UNSATISFACTORY MATERIALS" ENCOUNTERED FROM THE BUILDING AREAS, AND OTHER NON-LANDSCAPED AREAS.
D. EXCAVATE IN SUCH A MANNER THAT QUICK AND EFFICIENT DRAINAGE OF STORMWATER WILL BE AFFECTED.
E.CLASSIFY EXCAVATED MATERIALS AND STOCKPILE SEPARATELY SUITABLE SOILS FOR USE AS BACKFILL MATERIALS. IF SUFFICIENT QUANTITIES OF EXCAVATED MATERIALS MEETING REQUIREMENTS FOR BACKFILL ARE NOT AVAILABLE ON SITE, PROVIDE MATERIALS MEETING THESE REQUIREMENTS.
F.STOCKPILE EXCAVATED MATERIAL SUITABLE FOR USE AS FILL AND BACKFILL.

2.06 FILLING, BACKFILLING AND COMPACTING

A. THE WORK CONSISTS OF COMPACTION OF EXISTING EARTH (EXCLUDE ROCK), SURFACES AFTER EXCAVATION, FILLING AND COMPACTION OF SAID AREA TO LEVELS REQUIRED WITH SUITABLE BACKFILL MATERIAL.
B.MATERIALS: "SATISFACTORY FILL MATERIALS" AASHTO CLASSIFICATION A-3 OR BETTER SHALL BE USED IN FILLS AND BACKFILLS.
C. FILLING AND BACKFILLING: PLACE "SATISFACTORY FILL MATERIAL" IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH. COMPACT AS SPECIFIED HEREIN NO MATERIAL SHALL BE PLACED ON SURFACES THAT ARE MUDDY.

EARTHWORK (CONTINUED):

D. COMPACTION: COMPACTION SHALL BE WITH EQUIPMENT SUITED TO SOIL BEING COMPACTED. MOISTEN OR AERATE MATERIAL AS NECESSARY TO PROVIDE MOISTURE CONTENT THAT WILL READILY FACILITATE OBTAINING SPECIFIED COMPACTION WITH EQUIPMENT USED. COMPACT EACH LAYER TO NOT LESS THAN PERCENTAGE OF MAXIMUM DENSITY SPECIFIED BELOW DETERMINED IN ACCORDANCE WITH AASHTO T-180. INSURE THAT THE COMPACTION OF PREVIOUSLY PREPARED FILL AREAS HAS BEEN MAINTAINED PRIOR TO PLACING NEW LAYERS.
E. RECONDITIONING OF SUBGRADE: WHERE APPROVED COMPACTED SUBGRADES ARE DISTURBED BY THE CONTRACTOR'S SUBSEQUENT OPERATIONS OF ADVERSE WEATHER SUBGRADE SHALL BE SCARIFIED AND COMPACTED AS SPECIFIED HEREIN BEFORE TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION THEREON. RE-COMPACTION OVER UNDERGROUND UTILITIES SHALL BE BY POWER-DRIVEN HAND TAMPERS.
F. COMPACTION REQUIREMENTS
   a. FILL UNDER LAWNS AND PLANTED: 95%
   b. BELOW SLABS ON GRADE AND CONCRETE WALKS: 98%
   c. UNDER PAVING PARKING AREAS: 98%

2.07 TESTING

A. THE CONTRACTOR WILL PROVIDE THE SERVICES OF A TESTING LABORATORY TO PERFORM SPECIFIED TESTS, INSPECTIONS, INSTRUMENTATION AND INSPECTION OF WORK.
B. TESTS OF MATERIALS SHALL BE AS FOLLOWS:
   a. SOIL CLASSIFICATION: ONE TEST FROM EACH TYPE OF MATERIAL ENCOUNTERED AND / OR PROPOSED TO BE USED.
   b. LABORATORY TESTS FOR MOISTURE-CONTEST AND DENSITY ACCORDING TO AASHTO T-180: ONE TEST FOR EACH MATERIAL ENCOUNTERED AND / OR PROPOSED TO BE USED.
   c. FIELD TESTS FOR MOISTURE CONTEST AND DENSITY: ONE TEST PER LAYER OF FILL PER 5,000 SQUARE FEET OF AREA.

SUPPLEMENTAL SPECIFICATIONS:

1. GENERAL

THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND ADHERE TO THE SPECIFICATIONS AND STANDARDS OF THE UTILITY COMPANIES WHICH ARE SERVING THE PROJECT SITE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL SITE DEVELOPMENT STANDARDS AND CODES OF THE REGULATORY AGENCIES ASSOCIATED WITH THIS PROJECT. THE LATEST VERSION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE CONSTRUCTION STANDARD SPECIFICATIONS AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS SHALL BE INCLUDED WITHIN THE PROJECT SPECIFICATIONS. UNLESS OTHERWISE NOTED, EITHER ON THE PLANS OR WITHIN THE SPECIFICATIONS, THE APPLICABLE SECTIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS SHALL APPLY INCLUDING REFERENCES THEREIN. THE GENERAL DESCRIPTION OF THE NATURE OF THE WORK SHALL BE SUFFICIENT FOR CORRELATION TO THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, EXACT ITEM DESCRIPTION IS NOT REQUIRED. IN THE EVENT THERE ARE CONFLICTS BETWEEN SPECIFICATIONS OR REQUIREMENTS, THE MOST RESTRICTIVE (CONSERVATIVE) SPECIFICATION OR REQUIREMENT SHALL BE USED.

2. POTABLE WATER DISTRIBUTION/ WASTEWATER COLLECTION INSTALLATION

UNLESS OTHERWISE NOTED ON THE PLANS, THE STANDARDS AND SPECIFICATIONS OF THE ASSOCIATED UTILITY COMPANY SERVING THE PROJECT SITE SHALL BE ADHERED TO FOR ALL MATERIALS, INSTALLATION, TESTING, AND CERTIFICATION ACTIVITIES FOR ALL PUMP STATIONS, MAIN LINES, SERVICES, AND APPURTENANCES. IF STANDARDS AND SPECIFICATIONS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CONFORM WITH THE LATEST STANDARDS AND SPECIFICATIONS ADOPTED BY FLORIDA GOVERNMENTAL UTILITY AUTHORITY, LOCAL GOVERNMENTAL REGULATIONS, OR THE MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES, WHICHEVER IS SPECIFICALLY THE MOST RESTRICTIVE. A COPY OF THE FLORIDA GOVERNMENTAL UTILITY AUTHORITY SPECIFICATIONS CAN BE REVIEWED AT THE OFFICE OF ATWELL, LLC.

3. STORMWATER PIPE INSTALLATION AND MISCELLANEOUS EXCAVATIONS

UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE EXCAVATION, BEDDING, JOINTS, AND BACKFILLING OPERATIONS IN ACCORDANCE WITH THE POTABLE WATER/ WASTEWATER INSTALLATION SPECIFICATIONS, LOCAL GOVERNMENTAL REGULATIONS OR STANDARDS, F.D.O.T. STANDARDS AND SPECIFICATIONS OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES, WHICHEVER IS SPECIFICALLY THE MOST RESTRICTIVE.

4. UNSUITABLE MATERIALS

IF UNSUITABLE MATERIAL IS ENCOUNTERED WITHIN THE ROADWAY AREA AND / OR UTILITY AREAS IT SHALL BE REMOVED TO A DEPTH OF THREE (3) FEET BELOW THE SUB-BASE OR TRENCH BOTTOM AND SHALL BE BACKFILLED WITH THE AASHTO A-3 MATERIAL OR BETTER WITH PLACEMENT AND COMPACTION METHODS IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS OR AS OTHERWISE NOTED ON THE PLANS. UNSUITABLE MATERIALS SHALL BE REMOVED FROM SITE, UNLESS THE ENGINEER APPROVES USE WITHIN LANDSCAPED AREAS.

DEWATERING:

1.01 GENERAL

A. DEWATERING CONSISTS OF PERFORMING ALL WORK NECESSARY TO REMOVE SURFACE WATER AND / OR CONTROL THE GROUND WATER LEVELS AND HYDROSTATIC PRESSURES IN ORDER TO PERMIT ALL EXCAVATION AND CONSTRUCTION UNDER THIS CONTRACT TO BE PERFORMED IN THE DRY.
B. WORK OF THIS SECTION INCLUDES INSTALLATION, OPERATIONS, MAINTENANCE, SUPERVISION, SUPPLY, DISMANTLING, AND REMOVAL FROM THE SITE OF THE DEWATERING EQUIPMENT.
C. THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE POTENTIAL FOR EXCESSIVE RAINFALL, THE GROUND CONDITIONS, AND THE GROUND WATER CONDITIONS. GROUND WATER ELEVATION CAN FLUCTUATE. IT IS ANTICIPATED THAT ANY EXCAVATIONS MAY ENCOUNTER THE GROUND WATER TABLE.
D. DRAINAGE OF THE SITE: AT ALL TIMES THE CONTRACTOR SHALL MAINTAIN AND OPERATE ADEQUATE SURFACE AND SUBSURFACE DRAINAGE METHODS IN ORDER TO KEEP THE CONSTRUCTION SITE DRY AND IN SUCH CONDITION THAT PLACEMENT AND COMPACTION OF FILL MAY PROCEED UNHINDERED BY SATURATION OF THE AREA DURING CONSTRUCTION, THE SURFACE OF THE BACKFILL AREA SHALL BE LEFT IN SUCH CONDITION THAT PRECIPITATION AND / OR SURFACE WATER WILL RUN OFF WITHOUT PONDING.

1.02 METHOD

A. THE CONTROL OF ALL SURFACE AND SUBSURFACE WATER IS PART OF THE DEWATERING REQUIREMENTS, MAINTAIN ADEQUATE CONTROL SO THAT THE STABILITY OF EXCAVATED AND CONSTRUCTION SLOPES IS NOT ADVERSELY AFFECTED BY WATER, THAT EROSION IS CONTROLLED, AND THE FLOODING OF EXCAVATIONS OR DAMAGE TO STRUCTURES DOES NOT OCCUR. DRAIN SURFACE WATER AWAY FROM THE EXCAVATION.
B. DISPOSE OF ALL WATER REMOVED FROM THE EXCAVATION IN A MANNER THAT WILL NOT ENDANGER PUBLIC HEALTH, PROPERTY, OR PORTIONS OF THE WORK UNDER CONSTRUCTION OR COMPLETED. DISPOSE OF WATER IN A MANNER THAT WILL CAUSE NO INCONVENIENCE WHATSOEVER TO THE OWNER OR TO OTHERS ENGAGED IN WORK AT THE SITE.
C. DISPOSE OF WATER RESULTING FROM DEWATERING OPERATIONS IN ACCORDANCE WITH CITY, COUNTY, STATE AND FEDERAL REGULATIONS.
D. CONDUCT OPERATIONS SO THAT STORMWATER RUNOFF, SEDIMENT IS NOT DISCHARGED TO THE ADJACENT WATER BODIES, SEWERS, STREETS AND ADJACENT PROPERTIES.
E. DEWATERING SYSTEM SHALL BE SO DESIGNED AS TO PREVENT REMOVAL OF SOIL FINES FROM THE SITE DURING THE DEWATERING OPERATION.

PORTLAND CEMENT CONCRETE PAVING:

1.01 QUALITY ASSURANCE

A. COMPLY WITH ACI STANDARDS RECOMMENDED PRACTICES FOR CONSTRUCTION OF CONCRETE PAVEMENTS AND CONCRETE BASES (ACI 325.9R, LATEST EDITION)

1.02 REFERENCE STANDARDS

A. THE FOLLOWING REFERENCE STANDARDS OF THE ISSUES LISTED BELOW BUT REFERRED TO THEREAFTER BY BASIC DESIGNATION ONLY, FORM A PART OF THIS SPECIFICATION TO THE EXTENT INDICATED BY THE REFERENCES THERETO. TESTS SHALL BE PERFORMED IN ACCORDANCE WITH HEREINAFTER SPECIFIED STANDARDS.
   a. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
   b. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) STANDARD.
   c. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION-SECTION 350- "CEMENT CONCRETE PAVEMENT".
   d. T-180 MOISTURE- DENSITY RELATIONS OF SOILS

1.03 SUBMITTALS

A. THE CONTRACTOR SHALL SUBMIT TWO COPIES OF TEST REPORTS PREPARED BY AN INDEPENDENT TESTING LABORATORY AND CERTIFIED BY A

ABD	ABANDONED
AC	ACRE
ACCEL	ACCELERATION
ADJ	ADJUST
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
AM	11:59 MIDNIGHT UNTIL 12:00 NOON
APPL	APPLICATION
APPROX	APPROXIMATE
ARV	AIR RELIEF VALVE
ASPH	ASPHALT
ASSEM	ASSEMBLY
ATTN	ATTENTION
AUX	AUXILIARY
AVE	AVENUE
AWG	AMERICAN WIRE GAUGE
BC	BACK OF CURB
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BE	BURIED ELECTRIC
BEG	BEGIN
BIT	BITUMINOUS
BK	BACK
BL	BASELINE
BLC	BASELINE CONTROL
BLDG	BUILDING
BLKHD	BULKHEAD
BLVD	BOULEVARD
BM	BENCHMARK
BNDRY	BOUNDARY
BOT	BOTTOM
BP	BORROW PIT
BR	BRIDGE
BRNG	BEARING
BT	BURIED TELEPHONE
BTFLY	BUTTERFLY
BTWN	BETWEEN
BW	BOTTOM WIDTH
C&G	CURB AND GUTTER
CIP	CAST IN PLACE
CA	COURSE AGGREGATE
CAP	CORRUGATED ALUMINUM PIPE
CASP	CORRUGATED ALUMINIZED STEEL PIPE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CBC	CONCRETE BOX CULVERT
CBS	CONCRETE BOX STRUCTURE
CC	CENTER TO CENTER
CD	CROSS DRAIN
CEM	CEMENT
CF	CUBIC FOOT
CFS	CUBIC FOOT PER SECOND
CH	CHANNEL
CI	CAST IRON
CIP	CAST IRON PIPE
CIRC	CIRCUMFERENCE
CL	CENTERLINE
CLEAR	CLEARANCE
CM	CONCRETE MONUMENT
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CO	CLEAN OUT
COL	COLUMN
COM	COMMERCIAL
COMP	COMPOSITE
CON	CONNECT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUATION
CONTR	CONTRACTOR
COORD	COORDINATE
COR	CORNER
CORR	CORRUGATED
COV	COVER
CP	CONCRETE PIPE
CPE	CORRUGATED POLYETHYLENE PIPE
CR	CONTROL RADIUS
CRS	COURSE
CSP	CORRUGATED STEEL PIPE
CTR	CENTER
CY	CUBIC YARD
CULV	CULVERT
CWE	CONTROL WATER ELEVATION
D	DEPTH
DIA	DIAMETER
DA	DRAINAGE AREA
DBH	DIAMETER AT BREAST HEIGHT
DBI	DITCH BOTTOM INLET
DBL	DOUBLE
DE	DRAINAGE EASEMENT
DECEL	DECELERATION
DEG	DEGREE
DELIN	DELINEATORS
DEPT	DEPARTMENT
DET	DETECTABLE
DFE	DESIGN FLOOD ELEVATION
DGN	DESIGN
DHW	DESIGN HIGH WATER
DHWE	DESIGN HIGH WATER ELEVATION
DHWL	DESIGN HIGH WATER LEVEL
DI	DROP INLET
DIM	DIMENSION
DIST	DISTANCE
DR	DRIVE
DRWY	DRIVEWAY
DS	DESIGN SPEED
DSWT	DRY SEASON WATER TABLE
DT	DITCH
DWG	DRAWING
E	EAST
EOP	EDGE OF PAVEMENT
EA	EACH
EB	EASTBOUND
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC
ELLIP	ELLIPTICAL
EMBED	EMBEDMENT
EMBK	EMBANKMENT
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
ESMT	EASEMENT
EST	ESTABLISHED
ESTM	ESTIMATE
ETC	ET CETERA
EW	ENDWALL
EX	EXCEPT
EXC	EXCAVATION
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTENSION
FL	FLOWLINE
FS	FLORIDA STATUTES
FAC	FLORIDA ADMINISTRATIVE CODE
FC	FRICTION COURSE
FD	FRENCH DRAIN
FDN	FOUNDATION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FE	FLOOR ELEVATION
FED	FEDERAL
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH
FLA	FLORIDA
FLEX	FLEXIBLE
FM	FORCE MAIN
FOC	FIBER OPTIC CABLE
FR	FRAME
FT	FOOT OR FEET
FTB	FLOATING TURBIDITY BARRIER
FURN	FURNISH
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GAR	GARAGE
GB	GRADE BREAK
GD	GUTTER DRAIN
GIP	GALVANIZED IRON PIPE
GM	GAS MAIN
GP	GRADE POINT
GR	GRADE OR GRATE
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
GTTR	GUTTER
GV	GATE VALVE
HS	HIGH STRENGTH
HB	HAY BALES
HC	HANDICAPPED OR HORIZONTAL CLEARANCE
HD	HEAVY DUTY
HDPE	HIGH DENSITY POLYETHYLENE
HDWL	HEADWALL
HNDRL	HANDRAIL
HOA	HOME OWNERS ASSOCIATION
HOR	HORIZONTAL
HP	HIGH POINT OR HIGH PRESSURE
HR	HOUR
HSE	HOUSE
HT	HEIGHT
HW	HIGH WATER
HWY	HIGHWAY
HYD	HYDRAULIC
HZ	HERTZ
ID	INSIDE DIAMETER OR IDENTIFICATION
IN	INCH(ES)
INC	INCORPORATED OR INCLUDING
IND	INDUSTRY
INSTALL	INSTALLED
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
IR	IRON ROD
ISECT	INTERSECTION
ISL	ISLAND
JB	JUNCTION BOX
JCT	JUNCTION
JT	JOINT
K	DESIGN HOUR FACTOR
KWH	KILOWATT-HOUR
L	LENGTH
LW	LIGHTWEIGHT
LA	LIMITED ACCESS
LAT	LATITUDE
LB	POUNDS
LB/SY	POUNDS PER SQUARE YARDS
LBR	LIME ROCK BEARING RATIO
LF	LINEAR FEET (FOOT)
LGTH	LENGTH
LIN	LINEAR
LM	LUMEN
LME	LAKE MAINTENANCE EASEMENT
LMRK	LIME ROCK
LOC	LOCATION
LONG	LONGITUDE
LS	LUMP SUM OR LANDSCAPE
LSB	LANDSCAPE BUFFER
LT	LEFT TURN
LTD	LIMITED
LUM	LUMINAIRE
LX	LUX
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MB	MEDIAN BARRIER
MED	MEDIAN
MES	MITERED END SECTION
MFG	MANUFACTURER
MH	MANHOLE
MHW	MEAN HIGH WATER
MI	MILE
MID	MIDDLE
MIL	ONE-THOUSANDTH OF AN INCH
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MLW	MEAN LOW WATER
MOBL	MOBILIZATION
MOD	MODIFIED
MON	MONUMENT
MOT	MAINTENANCE OF TRAFFIC
MP	MILE POST
MPH	MILES PER HOUR
MSL	MEAN SEA LEVEL
MTD	MOUNTED
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH
N&C	NAIL AND CAP
N&D	NAIL AND DISK
NA	NOT APPLICABLE
NAVD	NATIONAL AMERICAN VERTICAL DATUM
NB	NORTHBOUND
NE	NORTHEAST
NEMA	NATIONAL ELECTRIC MANUFACTURES ASSOCIATION
NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NHW	NORMAL HIGH WATER
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NORM	NORMAL
NTS	NOT TO SCALE
NW	NORTHWEST
NWL	NORMAL WATER LEVEL
OBG	OPTIONAL BASE GROUP
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OE	OVERHEAD ELECTRIC
OH	OVERHEAD
OPT	OPTIONAL
OT	OVERHEAD TELEPHONE
PAR	PARALLEL
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCBC	PRECAST CONCRETE BOX CULVERT
PCE	PERMANENT CONSTRUCTION EASEMENT
PE	PROFESSIONAL ENGINEER
PED	PEDESTRIAN
PEN	PENETRATION
PG	PROFILE GRADE
PGL	PROFILE GRADE LINE
PH	PHASE
PI	POINT OF INTERSECTION
PKG	PARKING
PKWY	PARKWAY
PL	PROPERTY LINE
PM	12:00 NOON UNTIL 11:59 MIDNIGHT
POC	POINT OF CONNECTION OR POINT OF CURVE
PP	POWER POLE
PR	PAIR
PRC	POINT OF REVERSE CURVATURE
PRCST	PRECAST
PREST	PRESTRESSED
PRM	PERMANENT REFERENCE MONUMENT
PROD	PRODUCT
PROJ	PROJECT
PROP	PROPOSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSU	PRESTRESSED SLAB UNIT
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
Q	PEAK DISCHARGE OR FLOW VOLUME
R	RADIUS
RT	RIGHT
ROW	RIGHT OF WAY
RC	REVERSE CROWN
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
RDSD	ROADSIDE
RDWY	ROADWAY
REC	RECREATIONAL
RECT	RECTICULINE
REF	REFERENCE
REFL	REFLECTIVE
REG	REGISTERED
REINF	REINFORCED
RELOC	RELOCATED
REM	REMOVAL
RED	REDUCER
REPL	REPLACE
REQ	REQUIRED
RES	RESIDENCE OR RESIDENTIAL
RM	RE-USE MAIN OR REFERENCE MONUMENT
RP	REFERENCE POINT
RPM	RAISED REFLECTIVE PAVEMENT MARKERS
RR	RAILROAD
RSF	RESURFACE
SAN	SANITARY
SB	SOUTHBOUND
SCH	SCHEDULE
SD	STORMDRAIN
SE	SOUTHEAST
SECT	SECTION
SED	SEDIMENT
SEP	SEPARATION
SG	SUBGRADE
SHT	SHEET
SHLDR	SHOULDER
SHW	SEASONAL HIGH WATER
SHWT	SEASONAL HIGH WATER TABLE
SP	SUPER PAVE
SPEC	SPECIFICATION
SQ	SQUARE
SF	SQUARE FOOT
SQ IN	SQUARE INCH
SY	SQUARE YARD
SR	STATE ROAD
SS	SANITARY SEWER OR STAINLESS STEEL
ST	STREET
STA	STATION
STAB	STABILIZATION
STB	STAKED TURBIDITY BARRIER
STD	STANDARD
STGE	STORAGE
STL	STEEL
STR	STRUCTURE
STY	STORY
SUB	SUB SOIL
SUBST	SUBSTITUTE
SUPPTS	SUPPORTS
SUR	SURVEY
SURF	SURFACE
SW	SIDEWALK OR SOUTHWEST
SWMA	STORM WATER MANAGEMENT AREA
SYM	SYMMETRICAL
SYS	SYSTEM
TWP	TOWNSHIP
TAN	TANGENT
TC	TANGENT TO CURVE
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEL	TELEPHONE
TEMP	TEMPORARY
TK	TRUCK
THICK	THICKNESS
TIS	TRAFFIC IMPACT STATEMENT
TN	TON
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TRAF	TRAFFIC
TREAT	TREATMENT
TW	TOP OF WALL
TYP	TYPICAL
UE	UTILITY EASEMENT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNDDR	UNDER DRAIN
USGS	UNITED STATES GEOLOGICAL SERVICE
UTIL	UTILITIES
UV	ULTRAVIOLET
V	VOLT
VAR	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VEH	VEHICLE
VERT	VERTICAL
VOL	VOLUME
VW	VARIABLE WIDTH
W	WIDTH OR WATT
W/	WITH
WB	WESTBOUND
WM	WATER MAIN
WSWT	WET SEASON WATER TABLE
WT	WATER TABLE
WWF	WELDED WIRE FABRIC
WWR	WELDED WIRE REINFORCING
XING	CROSSING
XSEC	CROSS SECTION
YD	YARD
YR	YEAR

Lehigh Acres Fire Control and Rescue District
Life Safety Division

Office Address:
636 Thomas Sherwin Ave S
Lehigh Acres, FL
Phone: 239-303-5335
Email: LifeSafety@Lehighfd.com

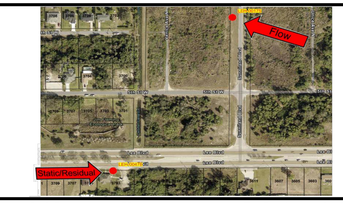
Mailing Address:
11 Homestead Rd S
Lehigh Acres, FL 33936
Phone: 239-303-5300
Fax: 239-369-2436
www.Lehighfd.com

Fire Flow Test Report

Fire Inspector: Neal Thomsen — Date: 4/2/2025 — Time: 14:00

Requested by Firm: Atwell, LLC — Name: Megan Knight, Project Coordinator
Address: 10511 Six Mile Cypress Pkwy, Suite 101 — Email Address: mknight@atwell.com
City, State, Zip Code: Fort Myers, FL 33966
Phone: 239-939-5490 — Project Name: 3650 5th St W

Static / Residual Pressure Hydrant: LEH-00478 3703 Lee Blvd
Flow Hydrant: LEH-00175 Sunniland Blvd/North of 5th St W



Static Pressure 52 PSI — Test Duration: 6 Minutes
Residual Pressure 42 PSI — Estimated Water Used: 7602 Gallons

	Outlet No. 1		Outlet No. 2	
Inside Diameter of Hydrant Outlet =	2.5	Inches	2.5	Inches
Discharge Coefficient of Hydrant Outlet =	0.9		0.9	
Pitot or Pressure Gauge Reading =	43	PSI		PSI

Min Fire Flow Pressure = 20 PSI — Test Flow = 1100.30 GPM — 0.00 GPM
Combined Flow of Outlets No. 1 & 2 = 1100.30 GPM

Available Fire Flow @ 20 PSI = 2,062.01 GPM

Coefficients: 0.7 - Squared Butt / 0.8 - Smooth Squared Butt / 0.9 - Smooth and Round Butt

SITE DEVELOPMENT REGULATIONS (PER ZONING RESOLUTION NO. Z-24-012):

	REQUIRED
ANCHOR PARCELS	
MINIMUM LOT SIZE (AC)	2.50
MINIMUM LOT WIDTH (FT)	200
MINIMUM LOT DEPTH (FT)	200
OUTPARCELS	
MINIMUM LOT SIZE (SF)	10,000
MINIMUM LOT WIDTH (FT)	100
MINIMUM LOT DEPTH (FT)	100
DEVELOPMENT REGULATIONS	
MAXIMUM LOT COVERAGE (%)	45
MAXIMUM RESIDENTIAL BUILDING HEIGHT (FT)	45
MAXIMUM COMMERCIAL BUILDING HEIGHT (FT)	35
MINIMUM BUILDING SEPARATION (FT)	20
MINIMUM OPEN SPACE (%)	20
SETBACK	
DEVELOPMENT PERIMETER SETBACK (FT)	25
STREET SETBACK (FT)	25
SIDE SETBACK (FT)	20
REAR SETBACK (FT)	20
WATERBODY SETBACK (FT)	25
PRESERVE SETBACK (FT)	20 (30 FOR FIRE DEPENDENT INDIGENOUS PLANT COMMUNITIES)

LANDSCAPE BUFFERS, PER Z-24-012 AND MCP

PARCEL WITH STRAP 26-44-26-L4-00003.0010

LOCATION	REQUIRED	PROVIDED
NORTH PROPERTY LINE	10' TYPE B	10' TYPE B
WEST PROPERTY LINE, NORTH OF 5TH ST W	25' PER Z-24-012.7.A	25' PER Z-24-012.7.A
SOUTH PROPERTY LINE	5' PER LDC 10-425	5' PER LDC 10-425
EAST PROPERTY LINE	5' PER LDC 10-425	5' PER LDC 10-425
AUBTTING 5TH STREET W	5' PER LDC 10-425	5' PER LDC 10-425

PARCEL WITH STRAP 26-44-26-L4-00003.0000

LOCATION	REQUIRED	PROVIDED
NORTH PROPERTY LINE	10' TYPE B	10' TYPE B
EAST PROPERTY LINE	5' PER LDC 10-425	5' PER LDC 10-425
WEST PROPERTY LINE	5' PER LDC 10-425	5' PER LDC 10-425
AUBTTING 5TH STREET W	5' PER LDC 10-425	5' PER LDC 10-425
SOUTH PROPERTY LINE	5' PER LDC 10-425	5' PER LDC 10-425

NRCS SOIL DATA: EAST PARCEL

MAP UNIT SYMBOL	SOIL TYPE	HYDRAULIC RATING	AREA	PERCENT
7	MATLACHA GRAVELLY FINE SAND	B	3.43	16.5%
36	IMMOKALEE SAND	B/D	1.62	7.8%
112	FLORIDANA SAND	C/D	5.13	24.8%
119 & 121	MALABAR FINE SAND	A/D	8.74	42.2%
129	PINEDA FINE SAND	A/D	1.62	7.8%
136	VALKARIA FINE SAND	A/D	0.18	0.9%

NRCS SOIL DATA: WEST PARCEL

MAP UNIT SYMBOL	SOIL TYPE	HYDRAULIC RATING	AREA	PERCENT
112	FLORIDANA SAND	C/D	3.39	30.8%
129	PINEDA FINE SAND	A/D	0.89	8.1%
137	WABASSO SAND	C/D	6.61	60.1%

SUNNILAND COMMONS WEST EXIST. LAND USE
(PARCEL 26-44-26-L4-00003.0010)

		SF	ACRES	%
TOTAL		478,731	10.99	100
	PAVEMENT	20,767	0.48	4.34
	OPEN SPACE	457,964	10.51	95.66
	TOTAL IMPERVIOUS	20,767	0.48	4.34
	TOTAL PERVIOUS	457,964	10.51	95.66

SUNNILAND COMMONS EAST EXIST. LAND USE
(PARCEL 26-44-26-L4-00003.0000)

		SF	ACRES	%
TOTAL		902,664	20.72*	100
	PAVEMENT	24,465	0.56	2.71
	OPEN SPACE	878,199	20.16	97.29
	TOTAL IMPERVIOUS	24,465	0.56	2.71
	TOTAL PERVIOUS	878,199	20.16	97.29

* INCLUDES 0.22 AC COMPENSATING R.O.W. FOR LEE BOULEVARD

SUNNILAND COMMONS WEST PROPOSED LAND USE
(PARCEL 26-44-26-L4-00003.0010)

		SF	ACRES	%
TOTAL		478,731	10.99	100
	PAVEMENT	13,508	0.31	2.82
	CONCRETE	3,796	0.09	0.79
	DRY DETENTION #1 (BOTTOM AND BANK)	43,996	1.01	9.19
	OPEN SPACE	417,431	9.58	87.20
	TOTAL IMPERVIOUS	17,304	0.40	3.61
	TOTAL PERVIOUS	461,427	10.59	96.39

NOTE: FOR PROPOSED BUILDOUT AREAS, SEE SHEET 8

SUNNILAND COMMONS EAST PROPOSED LAND USE
(PARCEL 26-44-26-L4-00003.0000)

		SF	ACRES	%
TOTAL		892,789	20.50*	100
	PAVEMENT	32,670	0.75	3.66
	CONCRETE	13,699	0.31	1.53
	DRY DETENTION #2 (BOTTOM BANK)	98,010	2.25	10.98
	PRESERVE	51,401	1.18	5.76
	OPEN SPACE	697,009	16.00	78.07
	TOTAL IMPERVIOUS	46,369	1.06	5.19
	TOTAL PERVIOUS	846,807	22.86	78.07

NOTE: FOR PROPOSED BUILDOUT AREAS, SEE SHEET 8

* PARCEL AREA 20.72 AC, COMPENSATING ROW 0.22 AC
20.72 AC – 0.22 AC = 20.50 AC

SWM EAST BASIN, SEE SHEET 8
20.50 AC – 1.18 AC PRESERVE – 0.05 AC (GREEN SPACE EAST SIDE PRESERVE NOT IN SWM BASIN) = 19.27 AC.

NOTE: SWM BASIN, SEE SHEET 8, HISTORIC OIL WELL FLOW 1.60 AC, 19.27 AC + 1.60 AC = 20.87 AC.

ADDITIONAL IMPERVIOUS AREA - OFFSITE:

SWM SYSTEM INCLUDES COMPENSATING WATER QUALITY FOR 1.36 AC OF ADDITIONAL OFF SITE IMPERVIOUS AREA.

PROPERTY DATA:

EXISTING ZONING DESIGNATION:	Z-24-012, SUNNILAND TOWN CENTER CPD
EXISTING LAND USE:	VACANT
PROPOSED USE:	MIXED USE
FLUM DESIGNATION:	CENTRAL URBAN FUTURE AREA
PLANNING COMMUNITY:	LEHIGH ACRES, 17
LEE PLAN CONSISTENCY:	THE PROPOSED IMPROVEMENTS AND USES ARE CONSISTENT WITH THE LEE PLAN, Z-24-012, AND THE LDC.

MAXIMUM DEVELOPMENT OPTIONS:
PER Z-24-012

OPTION 1: 265,000 SF OF COMMERCIAL FLOOR AREA AND 100,000 SF OF MINI WAREHOUSE

OPTION 2: 100,000 SF OF COMMERCIAL FLOOR AREA, 100,000 SF OF MINI WAREHOUSE, AND 300 RESIDENTIAL DWELLING UNITS.

Here is the status of Table 1(b) for commercial within Lehigh Acres

Use	Allocation	Existing	Remaining
Commercial	900	392.84	507.16
Residential Central Urban	7,233	5,110.15	2,122.84

GENERAL NOTES:

1. IRRIGATION TO BE PROVIDED BY WELL.
2. SUNNILAND COMMONS PROPERTY OWNERS ASSOCIATION SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE WATER MANAGEMENT SYSTEM, OPEN SPACE, COMMON AREAS, AND PRIVATE STREETS.
3. FOR SIDEWALK IN LEE COUNTY ROW (LEEDOT), SECTION 10-296 TABLE 3 GOVERNS FOR SIDEWALK CONSTRUCTION. SEE DETAIL SHEET FOR FURTHER INFORMATION.
4. SIDEWALK AND CURB REPLACEMENT LIMITS MUST EXTEND TO THE NEAREST CONSTRUCTION JOINT TO PREVENT SMALL SECTIONS OF EXISTING PANELS/CURB FROM BEING LEFT IN PLACE.
5. FOR PAVEMENT WITHIN THE LEE COUNTY ROW (LEEDOT), SECTION 10-296 TABLE 3 GOVERNS.

LEGEND

	EXISTING	PROPOSED
DRAINAGE PIPE	32"-18" RCP	32"-18" RCP
DRAINAGE STRUCTURES	SW	
FINISHED FLOOR ELEVATION	N/A	19.0
ON-SITE STORM STRUCTURE #	N/A	S-1
OFF-SITE STORM STRUCTURE #	N/A	OS-1
SPOT GRADE ELEVATION	x 15.0'	10.74
PARKING SPACE COUNT	16	16
TOP OF BERM		
RUBBLE RIP-RAP		
PAVEMENT		
PAVEMENT TO BE REMOVED		N/A
CONCRETE		
BUILDING/STRUCTURE		
RIGHT-OF-WAY		
CURB		
EASEMENT		
SWALE/DITCH		
TOP OF BANK		
DRAINAGE FLOW ARROWS		
CROSS SECTION	N/A	A A
SPREADER SWALE		
LANDSCAPE BUFFER	N/A	
LAKE		
SWMA (DRY)		
WETLANDS		
WETLAND IMPACT AREA	N/A	
PROPERTY LINE	PL	PL
POTABLE WATER LINE	E8"W	8"W
FORCE MAIN	E8"F	8"F
SANITARY SEWER MAIN	E8"SS	8"SS
IRRIGATION WATER MAIN	E8"I	8"I
REUSE WATER MAIN	E8"RU	8"RU
GATE VALVE		
REDUCER		
BLOW-OFF	E	E
AIR RELEASE VALVE		
FIRE HYDRANT ASSEMBLY		
SINGLE WATER SERVICE		
DOUBLE WATER SERVICE		
SINGLE IRRIGATION SERVICE		
DOUBLE IRRIGATION SERVICE		
SINGLE SEWER SERVICE		
DOUBLE SEWER SERVICE		
FIRE DEPARTMENT CONNECTION	N/A	
SANITARY MANHOLE & ID		
LIFT STATION & ID		

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

PROJECT NOTES AND LEGEND
DEVELOPMENT ORDER PLANS
SUNNILAND COMMONS
LEE COUNTY, FLORIDA
WMG ACQUISITIONS, LLC
PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/26/2026	REVISED PER CLIENT COMMENTS DATED 1/23/2026	NL
3	03/03/2026	REVISED PER SFWMD COMMENTS DATED 2/28/2026	NL

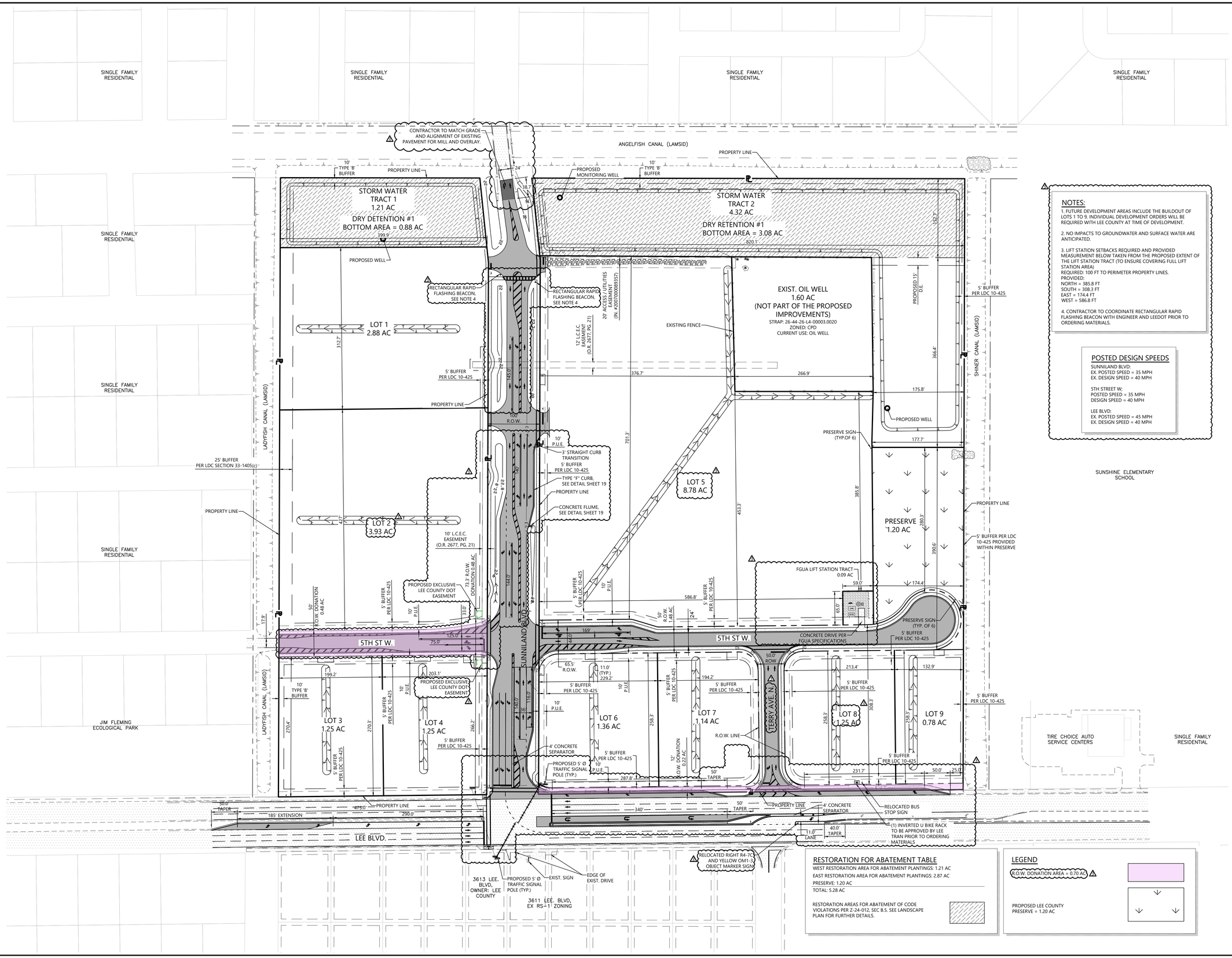
811 Know what's below. Call before you dig.
ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE TO THE ENGINEER. THERE IS NO GUARANTEE THAT ALL MAY BE SHOWN OR THAT THE LOCATION, DEPTH, AND SIZE OF EACH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION.

RACHEL J. TRACEY
P.E. LIC. #65322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 4

S:\Jobs\Wmg\8844 Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\PROJECT NOTES AND LEGEND.dwg, 3/4/2026 2:32:06 PM, KEVIN.GONZALEZ, ATWELL, LLC



NOTES:

1. FUTURE DEVELOPMENT AREAS INCLUDE THE BUILDOUT OF LOTS 1 TO 9. INDIVIDUAL DEVELOPMENT ORDERS WILL BE REQUIRED WITH LEE COUNTY AT TIME OF DEVELOPMENT.

2. NO IMPACTS TO GROUNDWATER AND SURFACE WATER ARE ANTICIPATED.

3. LIFT STATION SETBACKS REQUIRED AND PROVIDED MEASUREMENT BELOW TAKEN FROM THE PROPOSED EXTENT OF THE LIFT STATION TRACT (TO ENSURE COVERING FULL LIFT STATION AREA)
REQUIRED: 100 FT TO PERIMETER PROPERTY LINES.
PROVIDED:
NORTH = 385.8 FT
SOUTH = 308.3 FT
EAST = 174.4 FT
WEST = 586.8 FT

4. CONTRACTOR TO COORDINATE RECTANGULAR RAPID FLASHING BEACON WITH ENGINEER AND LEEDOT PRIOR TO ORDERING MATERIALS.

POSTED DESIGN SPEEDS

SUNNILAND BLVD:
EX. POSTED SPEED = 35 MPH
EX. DESIGN SPEED = 40 MPH

5TH STREET W;
POSTED SPEED = 35 MPH
DESIGN SPEED = 40 MPH

LEE BLVD:
EX. POSTED SPEED = 45 MPH
EX. DESIGN SPEED = 40 MPH

RESTORATION FOR ABATEMENT TABLE

WEST RESTORATION AREA FOR ABATEMENT PLANTINGS: 1.21 AC
EAST RESTORATION AREA FOR ABATEMENT PLANTINGS: 2.87 AC
PRESERVE: 1.20 AC
TOTAL: 5.28 AC

RESTORATION AREAS FOR ABATEMENT OF CODE VIOLATIONS PER Z-24-012, SEC B.5. SEE LANDSCAPE PLAN FOR FURTHER DETAILS.

LEGEND

R.O.W. DONATION AREA = 0.70 AC

PROPOSED LEE COUNTY PRESERVE = 1.20 AC

0 80 160
SCALE: 1" = 80'

ATWELL
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FORT MYERS, FL 33966
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MASTER SITE PLAN
DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:
WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES, DCI, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

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RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 5

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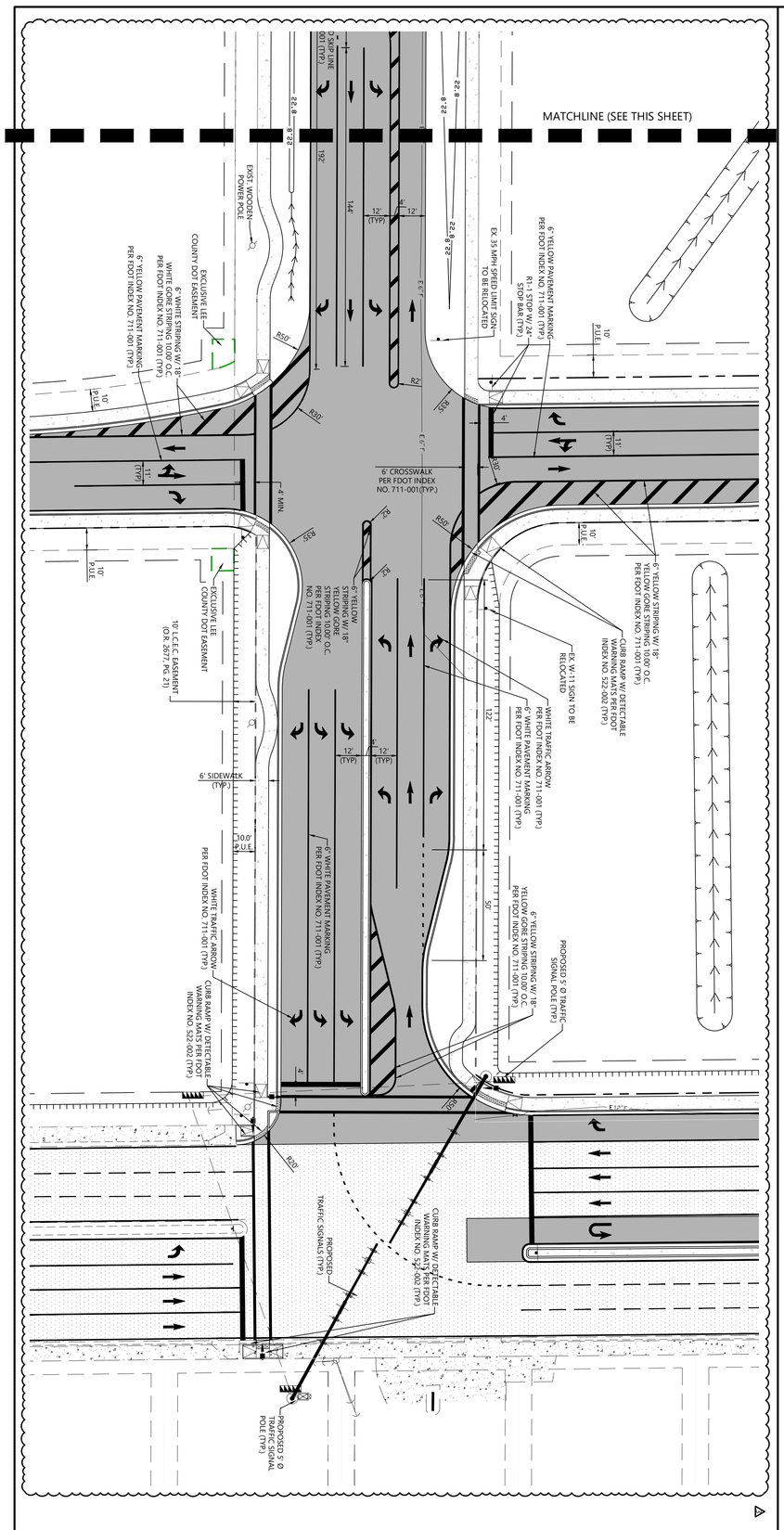
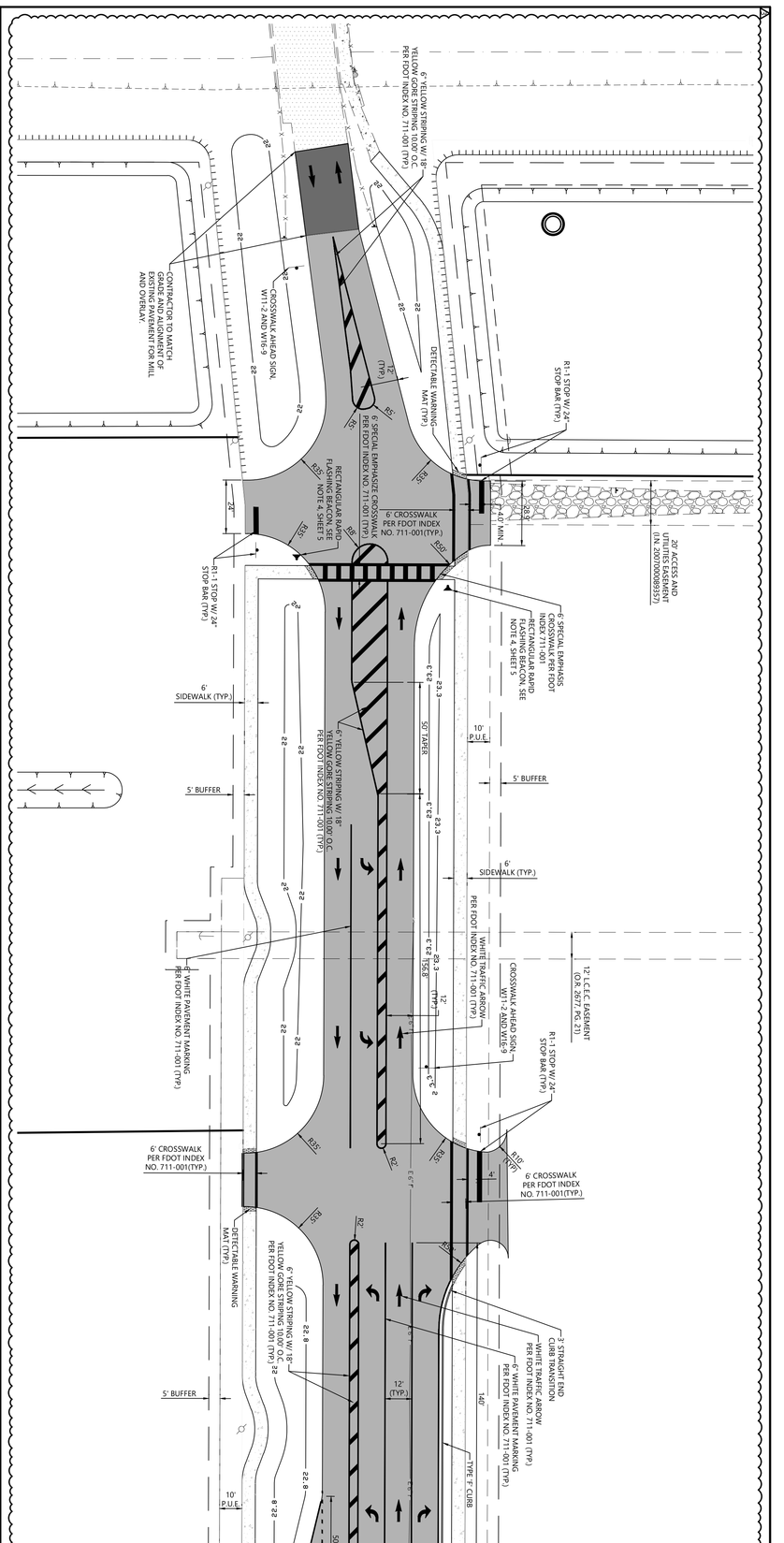
S:\active\8be4844\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\SUNNILAND BOULEVARD SIGNAGE AND STRIPING PLAN.dwg, 5/8/2026 2:52:37 PM, KEVIN GONZALEZ, ATWELL, LLC





NOTES:

1. PAVEMENT MARKINGS PER FDOT INDEX 711-001.

SUNNILAND BOULEVARD SIGNAGE AND STRIPING PLAN

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:

WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	09/19/2025	REVISED PER ZONING COMMENTS DATED 8/25/2025	NL
2	03/03/2026	REVISED PER ZONING COMMENTS DATED 2/19/2026	NL
3	03/20/2026	REVISED PER ZONING COMMENTS DATED 3/13/2026	NL

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811

NOT A SURVEY. THIS DRAWING IS FOR GRAPHIC REPRESENTATION PURPOSES ONLY AND SHOULD NOT BE USED FOR PROPERTY LINE, EASEMENT & SURVEY INFORMATION. REFER TO SURVEY FOR ACCURATE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.

SCALE: 1" = 30' (0, 30, 60)

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SHEET	6
BOOK AND PAGE	
PROJECT NUMBER	8be4844
COMPLETION DATE	05/20/26
SURVEY DATUM	NAVD88
DRAFTED BY:	MD
DESIGNED BY:	MD
REVIEWED BY:	RGT
P.E. LIC. #65322	
RACHEL J. TRACEY	

NOTES:

1. PAVEMENT MARKINGS PER FDOT INDEX 711-001.

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FORT MYERS, FL 33966
(239) 939-3400

0 30 60
SCALE: 1" = 30'

5TH ST SIGNAGE AND STRIPING PLAN

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT COMMENTS DATED 12/30/2025	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

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RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 7

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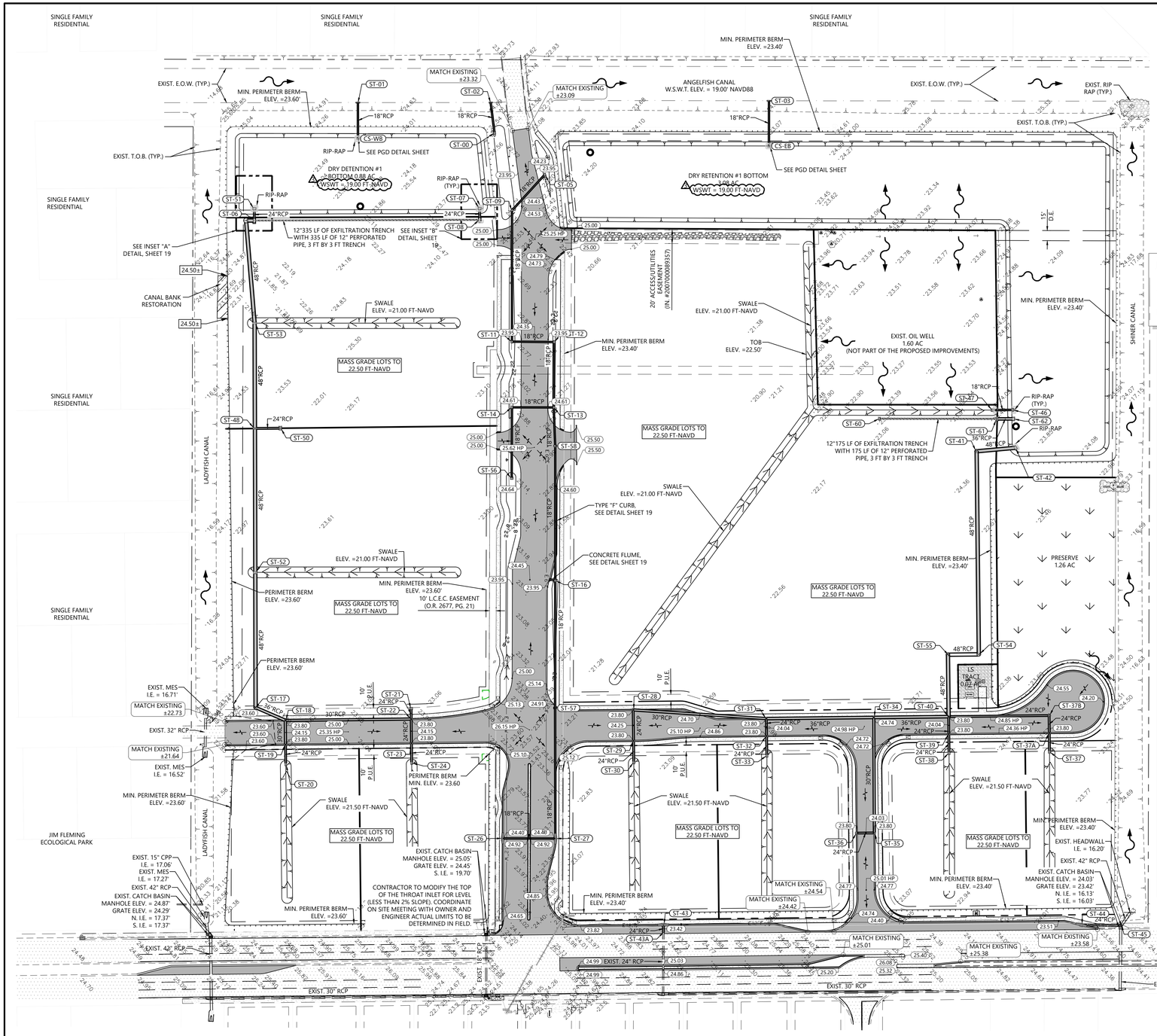

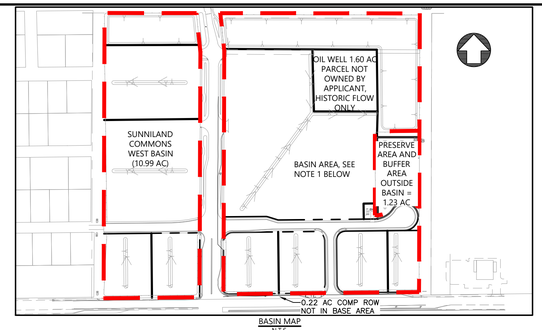

BASIN MAP
N.T.S.

NOTE:

1. PARCEL AREA 20.72 AC, COMPENSATING ROW 0.22 AC
   20.72 AC – 0.22 AC = 20.50 AC
   SWM EAST BASIN
   20.50 AC – 1.18 AC PRESERVE – 0.05 AC (GREEN SPACE EAST SIDE PRESERVE NOT IN SWM BASIN) = 19.27 AC
   HISTORIC OIL WELL FLOW (AREA NOT APPLICANT OWNED) OR IMPACTED) 1.60 AC, 19.27 AC + 1.60 AC = 20.87 AC
2. SEE SWM REPORT FOR MORE DETAILED BASIN MAP

Structure Table		
Structure Name	Structure Type	Structure Details
CS-EB	CONTROL STRUCTURE	RIM = 23.40' N. INV. = 18.00
CS-WB	CONTROL STRUCTURE	RIM = 23.55' N. INV. = 19.00
ST-00	CATCH BASIN	RIM = 22.25' N. INV. = 16.50
ST-01	HEADWALL	RIM = 19.71' S. INV. = 15.00
ST-02	HEADWALL	RIM = 20.87' S. INV. = 15.00
ST-03	HEADWALL	RIM = 18.55' S. INV. = 15.00
ST-05	CATCH BASIN	RIM = 22.00' SW. INV. = 17.00
ST-06	TYPE H INLET (SEE INSET "A" ON SHEET 21)	RIM = 22.00' E. INV. = 19.00 W. INV. = 15.38 N. INV. = 16.75
ST-07	CATCH BASIN (SEE INSET "B" ON SHEET 21)	RIM = 21.00' S. INV. = 16.75
ST-08	TYPE H INLET (SEE INSET "B" ON SHEET 21)	RIM = 21.30' N. INV. = 16.75 W. INV. = 19.00
ST-09	CATCH BASIN	RIM = 22.00' S. INV. = 16.00 NE. INV. = 17.00
ST-11	CATCH BASIN	RIM = 22.00' E. INV. = 16.00 N. INV. = 16.00
ST-12	CATCH BASIN	RIM = 23.30' S. INV. = 17.00 W. INV. = 16.00
ST-13	CATCH BASIN	RIM = 23.30' S. INV. = 17.00 N. INV. = 17.00 W. INV. = 17.00
ST-14	CATCH BASIN	RIM = 22.00' E. INV. = 17.00 S. INV. = 17.00
ST-16	CATCH BASIN	RIM = 22.80' S. INV. = 17.00 N. INV. = 17.00
ST-17	JUNCTION BOX	RIM = 22.72' SE. INV. = 16.00 N. INV. = 15.38
ST-18	TYPE 9 INLET	RIM = 23.80' S. INV. = 16.00 E. INV. = 16.25 NW. INV. = 16.00
ST-19	TYPE 9 INLET	RIM = 23.80' N. INV. = 16.00 S. INV. = 16.00
ST-20	CATCH BASIN	RIM = 21.00' N. INV. = 16.00
ST-21	CATCH BASIN	RIM = 23.36' S. INV. = 17.75

Structure Table		
Structure Name	Structure Type	Structure Details
ST-22	TYPE 9 INLET	RIM = 23.80' W. INV. = 16.25 N. INV. = 17.75 S. INV. = 16.25
ST-23	TYPE 9 INLET	RIM = 23.80' N. INV. = 16.25 S. INV. = 16.25
ST-24	CATCH BASIN	RIM = 21.00' N. INV. = 16.25
ST-26	TYPE 6 INLET	RIM = 24.40' E. INV. = 17.00
ST-27	TYPE 6 INLET	RIM = 24.40' W, INV. = 17.00 N. INV. = 17.00
ST-28	TYPE 9 INLET	RIM = 23.80' S. INV. = 16.25 E. INV. = 16.25
ST-29	TYPE 9 INLET	RIM = 23.80' N. INV. = 16.25 S. INV. = 16.25
ST-30	CATCH BASIN	RIM = 21.50' N. INV. = 16.25
ST-31	TYPE 9 INLET	RIM = 23.80' W. INV. = 16.25 S. INV. = 16.25 E. INV. = 16.25
ST-32	TYPE 9 INLET	RIM = 23.80' N. INV. = 16.25 S. INV. = 16.25
ST-33	CATCH BASIN	RIM = 21.50' N. INV. = 16.25
ST-34	TYPE 9 INLET	RIM = 24.74' W. INV. = 15.70 S. INV. = 15.70 E. INV. = 15.70
ST-35	TYPE 9 INLET	RIM = 23.80' W. INV. = 16.50 N. INV. = 15.75
ST-36	TYPE 9 INLET	RIM = 23.80' E. INV. = 16.50
ST-37	CATCH BASIN	RIM = 21.50' N. INV. = 16.25
ST-37A	TYPE 9 INLET	RIM = 23.80' S. INV. = 16.25 N. INV. = 16.25
ST-37B	JUNCTION BOX	RIM = 24.19' S. INV. = 16.25 W. INV. = 16.25
ST-38	CATCH BASIN	RIM = 21.50' N. INV. = 16.25
ST-39	TYPE 9 INLET	RIM = 23.80' N. INV. = 16.25 S. INV. = 16.25
ST-40	TYPE 9 INLET	RIM = 23.80' W. INV. = 15.70 E. INV. = 16.25 S. INV. = 16.25 N. INV. = 14.00
ST-41	JUNCTION BOX	RIM = 22.00' S. INV. = 14.00 E. INV. = 14.00

Structure Table		
Structure Name	Structure Type	Structure Details
ST-42	BUBBLE UP STRUCTURE W/ 36"W X 12"H SLOT N. INV. = 20.00' 24"W X 12"H SLOT E. & W. INV. = 20.00'	RIM = 21.00' W. INV. = 14.00
ST-43	TYPE 6 INLET	RIM = 23.42' S. INV. = 18.53
ST-43A	CONNECT TO EXIST.	RIM = 23.63' N. INV. = 18.53
ST-44	TYPE 6 INLET	RIM = 23.41' E. INV. = 16.15
ST-45	CONNECT TO EXIST.	RIM = 17.86' W. INV. = 16.15
ST-46	CATCH BASIN	RIM = 20.00' W. INV. = 17.25
ST-47	CATCH BASIN	RIM = 21.00' E. INV. = 17.25
ST-48	CATCH BASIN	RIM = 22.50' S. INV. = 15.38 E. INV. = 17.75 N. INV. = 15.38
ST-50	CATCH BASIN	RIM = 22.50' W. INV. = 17.75
ST-51	CATCH BASIN (SEE INSET "A" ON SHEET 21)	RIM = 21.00' S. INV. = 16.75
ST-52	CATCH BASIN	RIM = 21.00' S. INV. = 15.38 N. INV. = 15.38
ST-53	CATCH BASIN	RIM = 21.00' S. INV. = 15.38 N. INV. = 15.38
ST-54	JUNCTION BOX	RIM = 22.50' W. INV. = 14.00 N. INV. = 14.00
ST-55	JUNCTION BOX	RIM = 22.50' S. INV. = 14.00 E. INV. = 14.00
ST-56	CATCH BASIN	RIM = 22.80' N. INV. = 17.00
ST-57	JUNCTION BOX	RIM = 24.96' S. INV. = 17.00 N. INV. = 17.00
ST-58	JUNCTION BOX	RIM = 25.30' S. INV. = 17.00 N. INV. = 17.00
ST-59	JUNCTION BOX	RIM = 22.50' S. INV. = 15.38 E. INV. = 15.38
ST-60	CATCH BASIN	RIM = 22.50' E. INV. = 19.00
ST-61	CATCH BASIN W/ WEIR WALL @ ELEV. = 20.00'	RIM = 24.25' W. INV. = 19.00 E. INV. = 15.67
ST-62	CATCH BASIN	RIM = 24.25' W. INV. = 15.67

NOTE: HEADWALLS PER FDOT INDEX 430-030

STORM WATER MANAGEMENT NOTES:

1. EACH LOT MAXIMUM 80% IMPERVIOUS AT TIME OF BUILD OUT. CONNECTIONS PROVIDED FOR LOTS 1, 2, 3, 4, 6, 7, 8 & 9.
2. CONTRACTOR TO VERIFY PERIMETER BERM EL.

SUNNILAND COMMONS WEST BASIN BUILDOUT LAND USE

(SEE BASIN MAP THIS SHEET)

	ACRES	%
	10.99	100
BUILDING	2.982	27.13
PAVEMENT/CONCRETE	4.874	44.35
DRY DETENTION #1 BOTTOM	0.88	8.00
DRY DETENTION #1 BANK	0.13	1.18
OPEN SPACE	2.124	19.32
TOTAL	10.99	

SUNNILAND COMMONS EAST BASIN BUILDOUT LAND USE

(SEE BASIN MAP THIS SHEET)

	ACRES	%
	19.27	100
BUILDING	2.14	11.11
PAVEMENT/CONCRETE	9.85	51.11
DRY RETENTION #1 BANK	0.34	1.76
DRY RETENTION #1 BOTTOM	3.08	15.98
OPEN SPACE	3.86	20.03
TOTAL	19.27	

SURFACE WATER MANAGEMENT SUMMARY:

	SUNNILAND COMMONS WEST BASIN *	SUNNILAND COMMONS EAST BASIN *
10–YEAR, 1–DAY RAINFALL	6.89"	6.89"
25–YEAR, 3–DAY RAINFALL	10.70"	10.70"
100–YEAR, 3–DAY RAINFALL	14.10"	14.10"
WET SEASON WATER TABLE	19.00' NAVD88	19.0' NAVD88
PEAK 10 YEAR, 1–DAY STORM STAGE	23.10' NAVD88	23.14' NAVD88
PEAK 25 YEAR, 3–DAY STORM STAGE	23.55' NAVD88	23.33' NAVD88
PEAK 25 YEAR, BACK TO BACK 3–DAY STORM STAGE	N/A	23.38' NAVD88
PEAK 100 YEAR, 3–DAY ZERO DISCHARGE STORM STAGE	24.32' NAVD88	23.88' NAVD88
MINIMUM PAVEMENT ELEVATION (10 YEAR)	23.10' NAVD88	23.15' NAVD88
MINIMUM BERM ELEVATION (25 YEAR)	23.60' NAVD88	23.40' NAVD88
MINIMUM FINISH FLOOR ELEVATION (100 YEAR)	24.50' NAVD88	24.50' NAVD88
FEMA FLOOD ZONE X PER FIRM PANEL 12071C0475F, EFFECTIVE 08/28/2008	N/A	N/A
BASIN AREA (AC)	10.99	19.27 ***
ALLOWABLE DISCHARGE (CFS)	0.52	0.91 CFS ****
PEAK DISCHARGE (CFS)	0.44	0.89 CFS

* SEE BASIN MAP ON MASTER DRAINAGE PLAN
*** APPLICANT OWNED AND 1.60 AC HISTORIC FLOW ON TO EAST BASIN
**** BASED ON APPLICANT OWNED AREA FOR FUTURE CONDITIONS, SEE SWM REPORT.

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(269) 930-3480

0 80 160
SCALE: 1" = 80'

MASTER DRAINAGE PLAN
DEVELOPMENT ORDER PLANS
SUNNILAND COMMONS
LEE COUNTY, FLORIDA
WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
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2	01/09/2026	REVISED PER CLIENT COMMENTS, 30' & 9'DUK EASEMENTS	NL
3	03/03/2026	REVISED PER CLIENT COMMENTS DATED 02/09/2026	NL

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RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-25	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

SHEET 8

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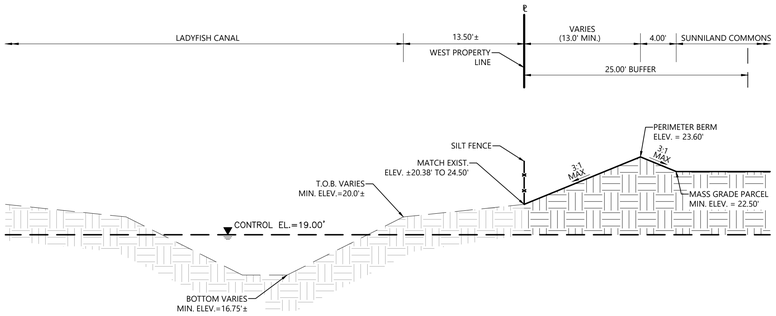
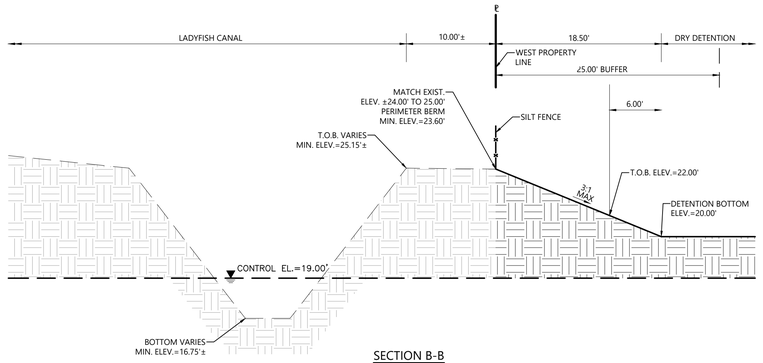


SECTION A-A
NTS



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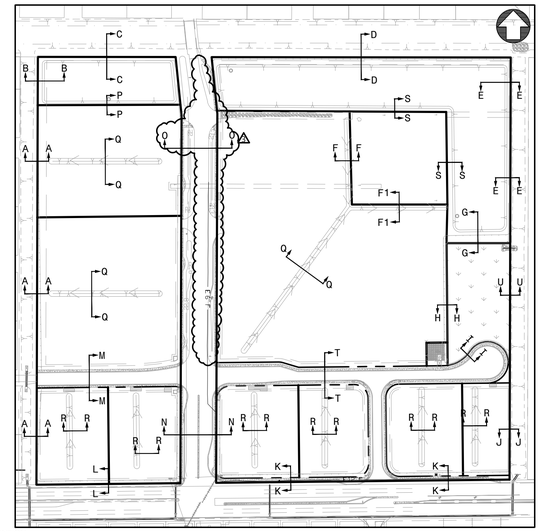

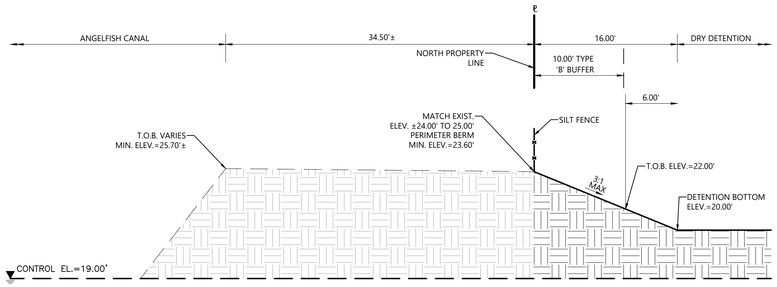

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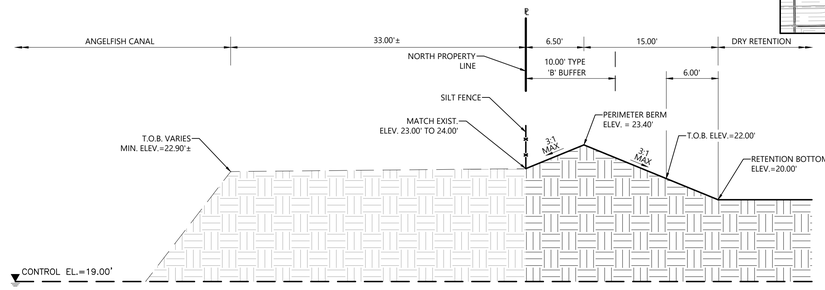

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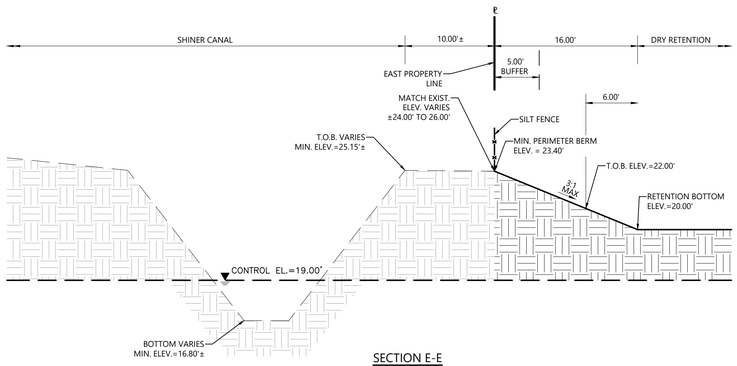

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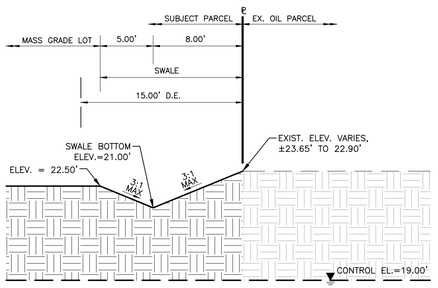

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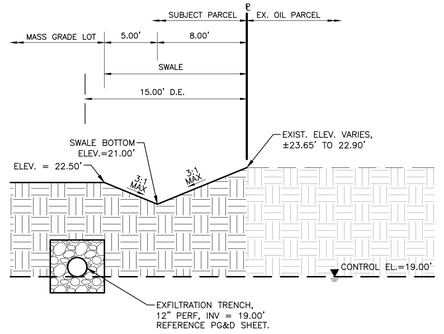

SECTION F1–F1
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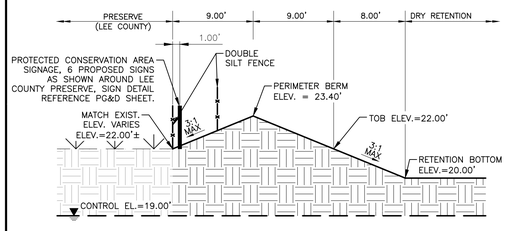

SECTION G–G
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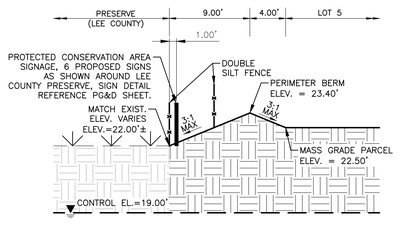
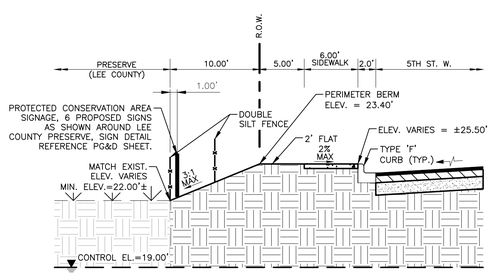
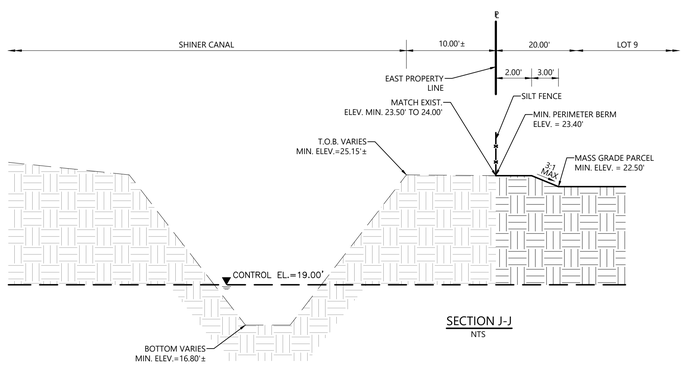


SECTION H–H
NTS



SECTION I–I
NTS



SECTION J-J
NTS

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

TYPICAL CROSS SECTIONS 01

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:
WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
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3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/26/2026	NL

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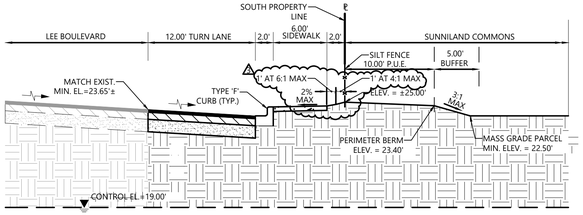
RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-25	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

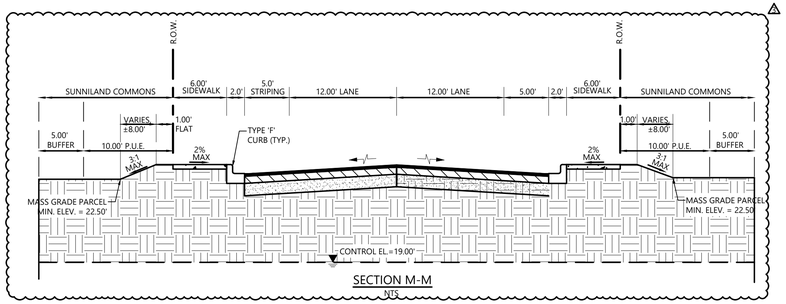
SHEET 9

D:\Jobs\Bonita\8844\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\TYPICAL CROSS SECTIONS.dwg, 3/6/2026 2:03:29 PM, KEVIN GONZALEZ, ATWELL, LLC

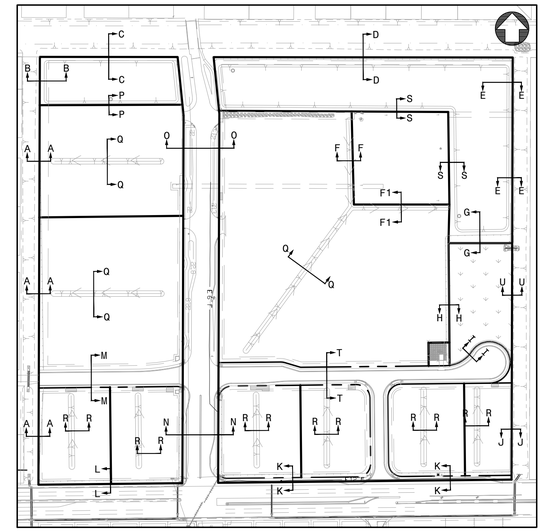


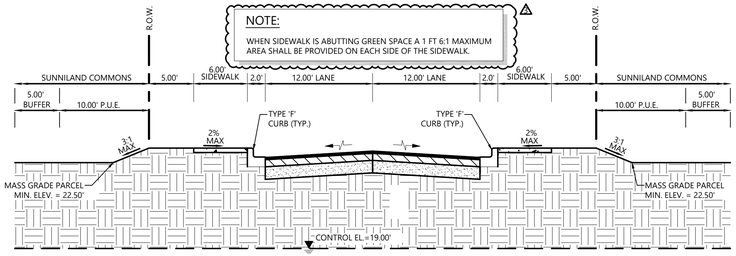
SECTION K-K
NTS

NOTE:
WHEN SIDEWALK IS ABUTTING GREEN SPACE A 1 FT 6:1 MAXIMUM AREA SHALL BE PROVIDED ON EACH SIDE OF THE SIDEWALK.



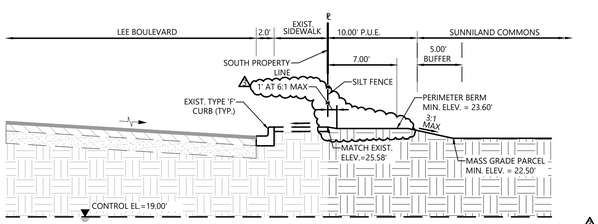
SECTION M-M
NTS





SECTION T-T
NTS

WHEN SIDEWALK IS ABUTTING GREEN SPACE A 1 FT 6:1 MAXIMUM AREA SHALL BE PROVIDED ON EACH SIDE OF THE SIDEWALK.



SECTION L-L
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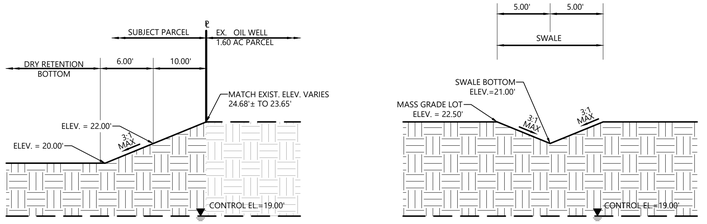
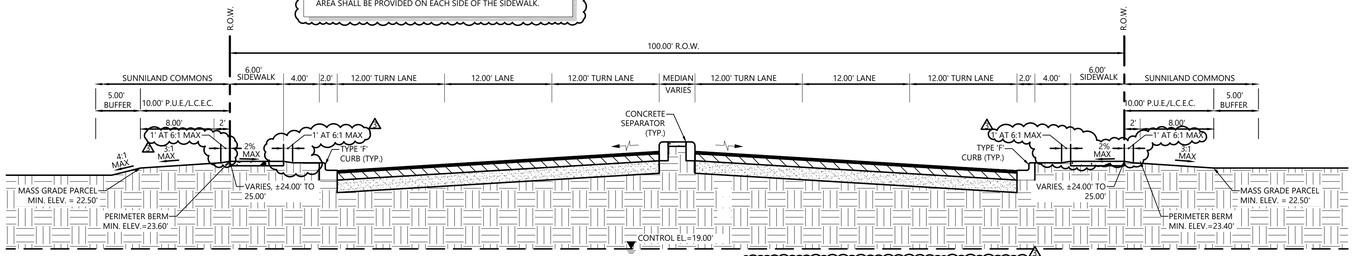


SECTION S-S
NTS

SECTION Q-Q
NTS



SECTION N-N
NTS

NOTE:
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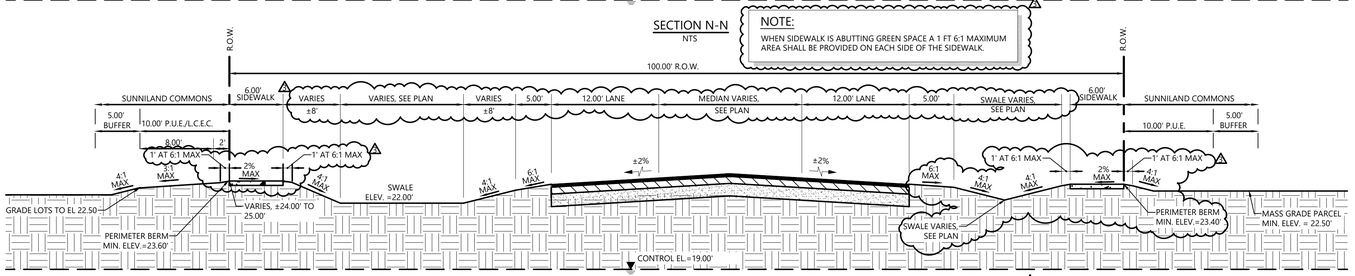

SECTION O-O
NTS

NOTE:
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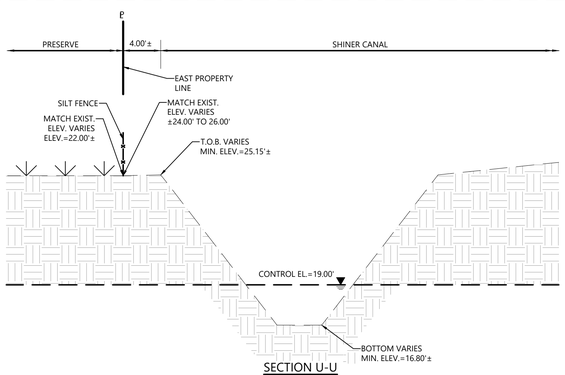
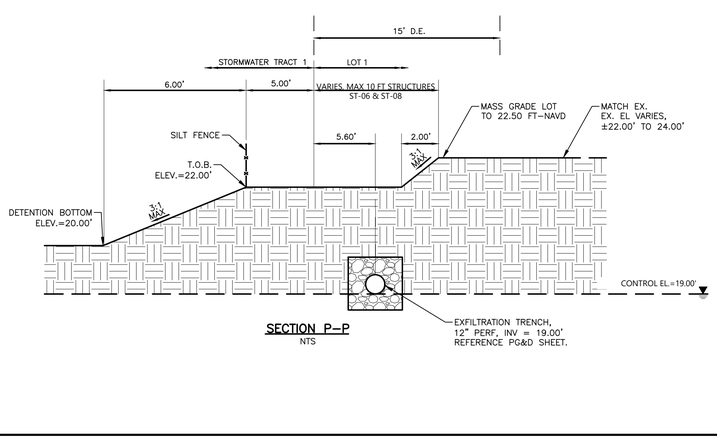
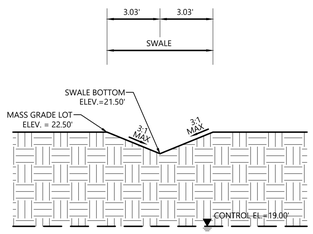


SECTION U-U
NTS



SECTION P-P
NTS



SECTION R-R
NTS

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-3400

TYPICAL CROSS SECTIONS 02
DEVELOPMENT ORDER PLANS
SUNNILAND COMMONS
LEE COUNTY, FLORIDA
WMG ACQUISITIONS, LLC
PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES: 100' X 9'DUK CANAL	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

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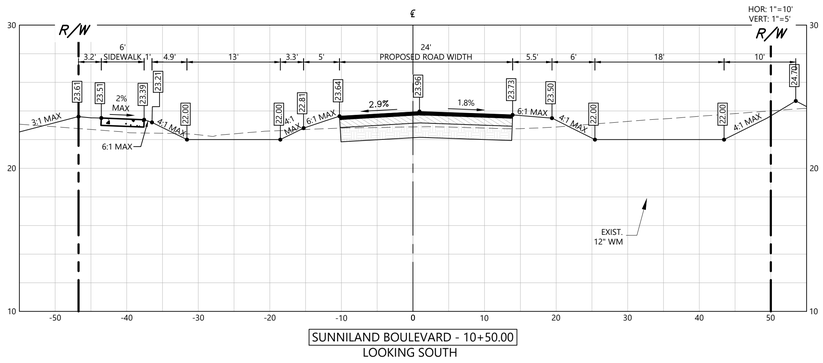
RACHEL J. TRACEY
P.E. LIC. #85322

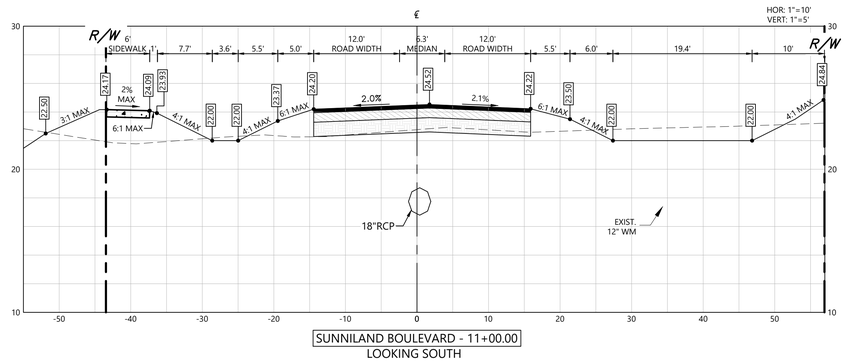
DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 10

S:\atwell\fort\844\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\TYPICAL CROSS SECTIONS.dwg 3/5/2026 3:33:39 PM, KEVIN GONZALEZ, ATWELL, LLC



SUNNILAND BOULEVARD - 10+50.00
LOOKING SOUTH



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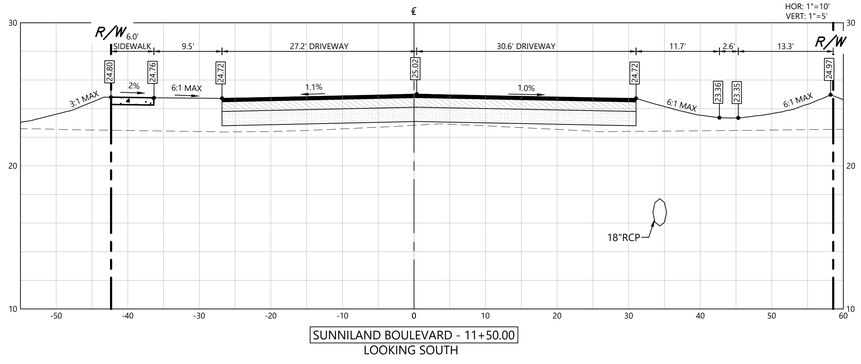

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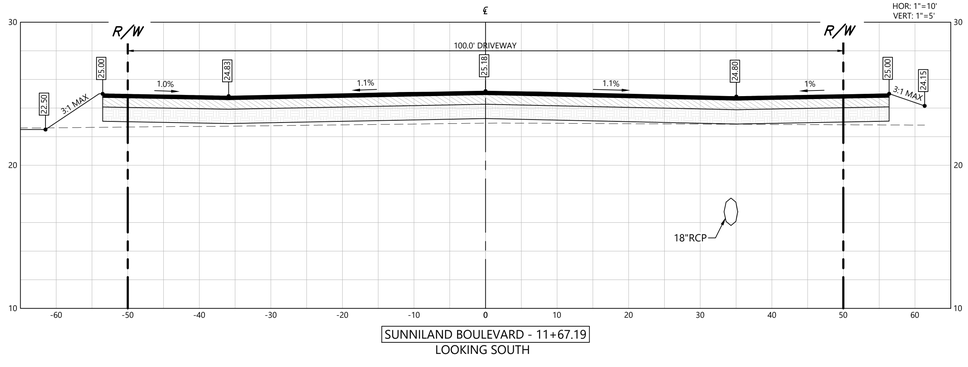

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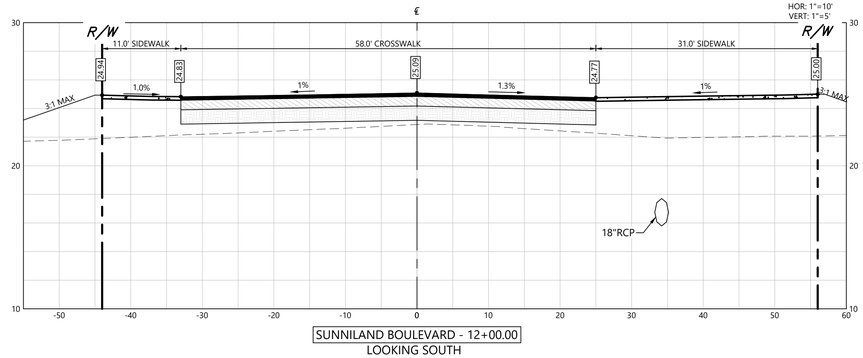
LOOKING SOUTH



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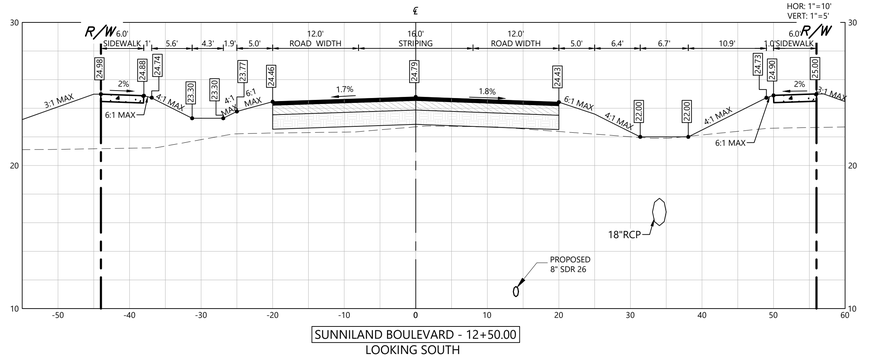

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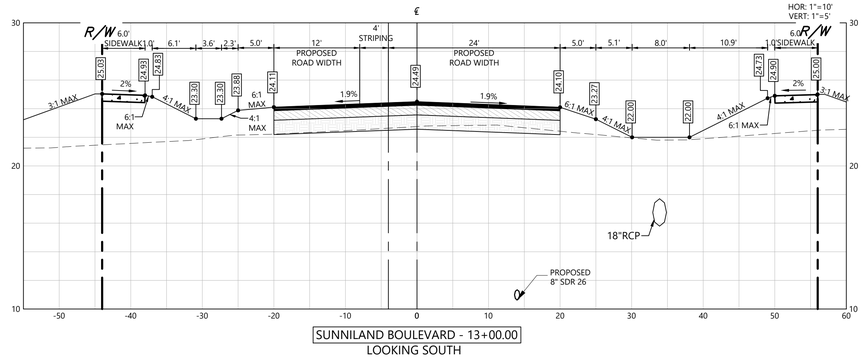

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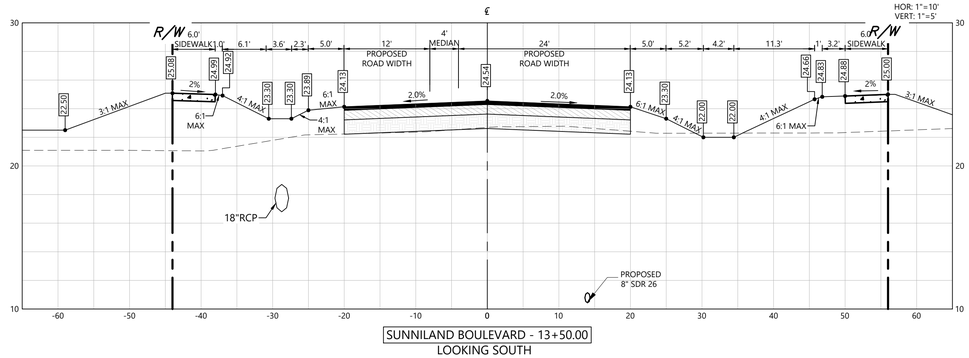

SUNNILAND BOULEVARD - 13+50.00
LOOKING SOUTH

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

SUNNILAND - CROSS SECTIONS 01

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT COMMENTS DATED 12/30/2025	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

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RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 11

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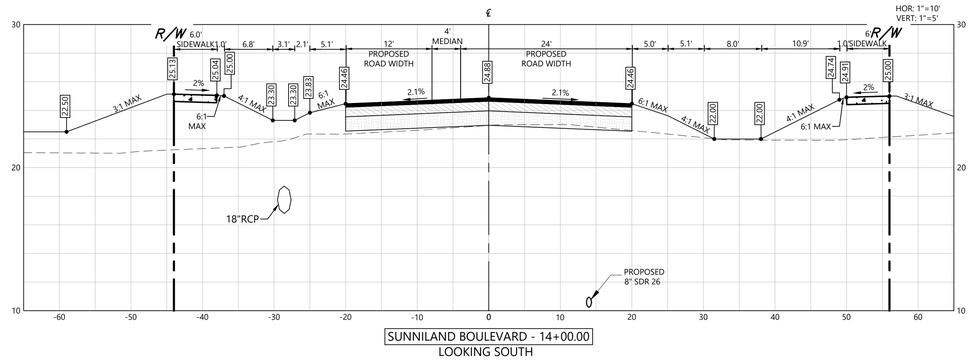

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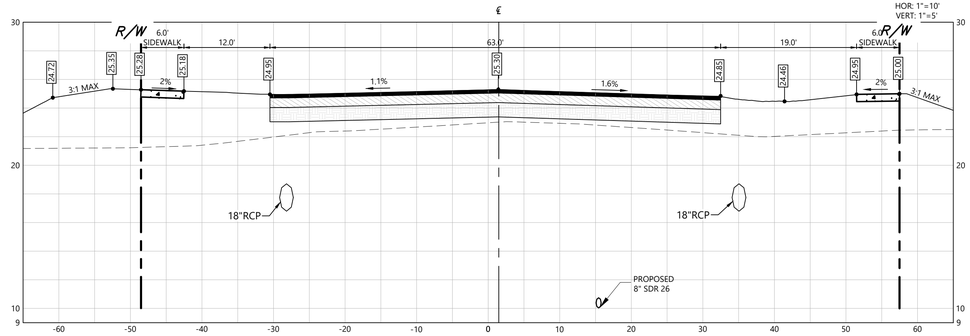

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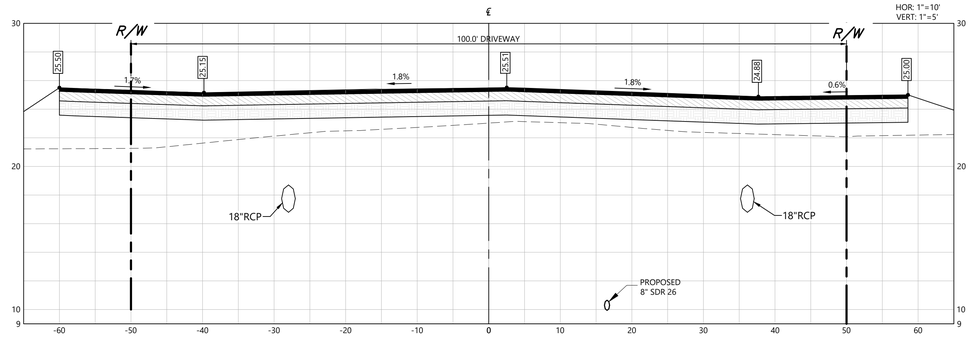

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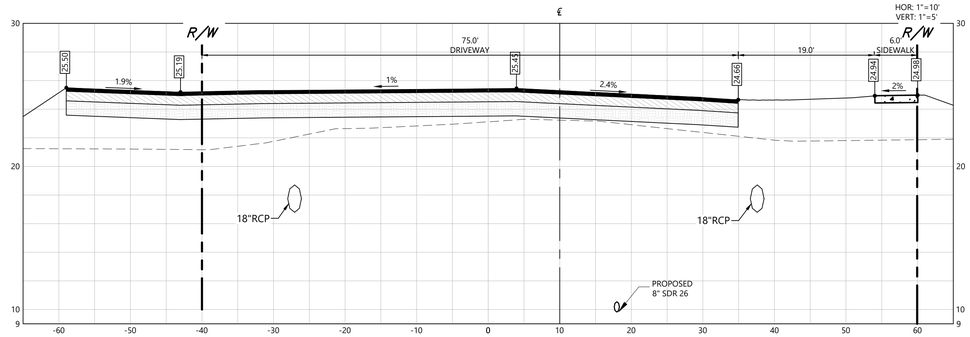

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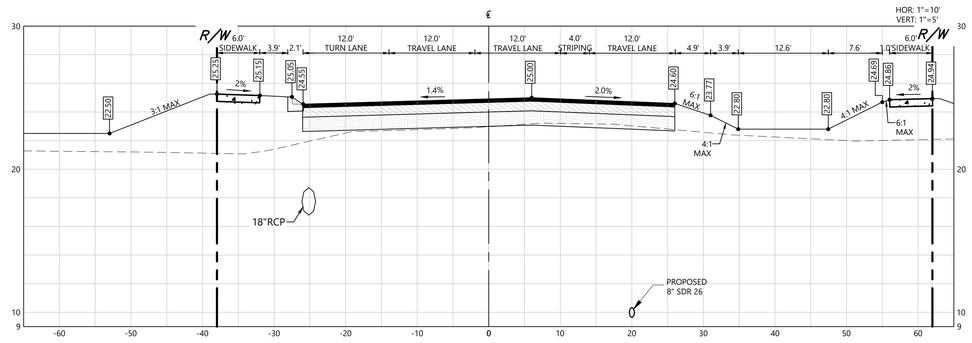

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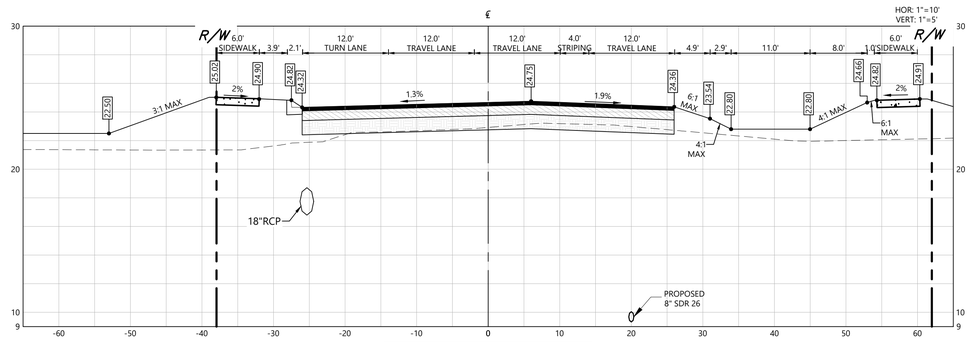

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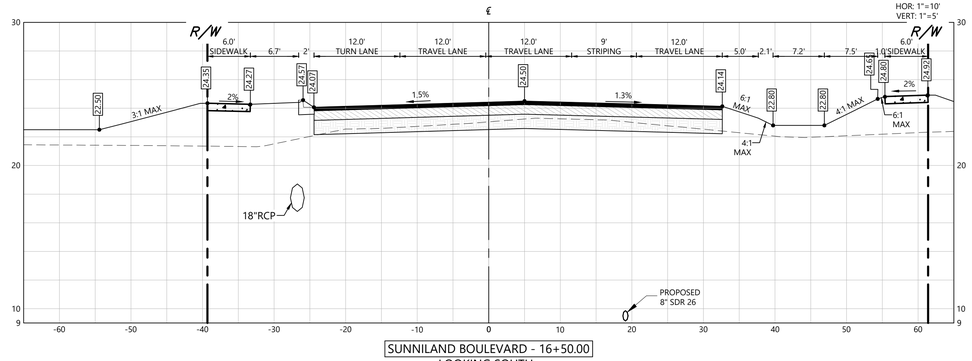

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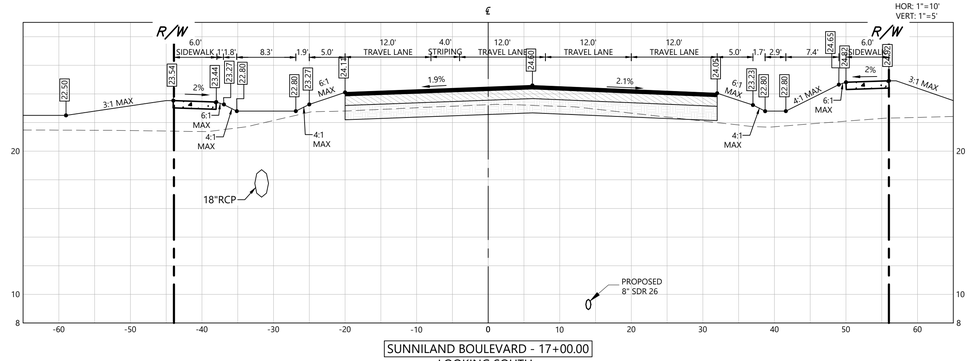

SUNNILAND BOULEVARD - 17+00.00
LOOKING SOUTH

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

SUNNILAND - CROSS SECTIONS 02

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:
WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES, DO, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

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RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-26	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

SHEET 12

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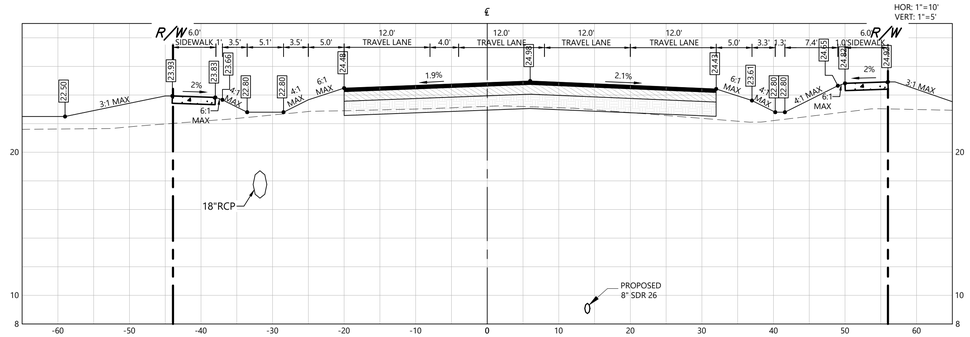
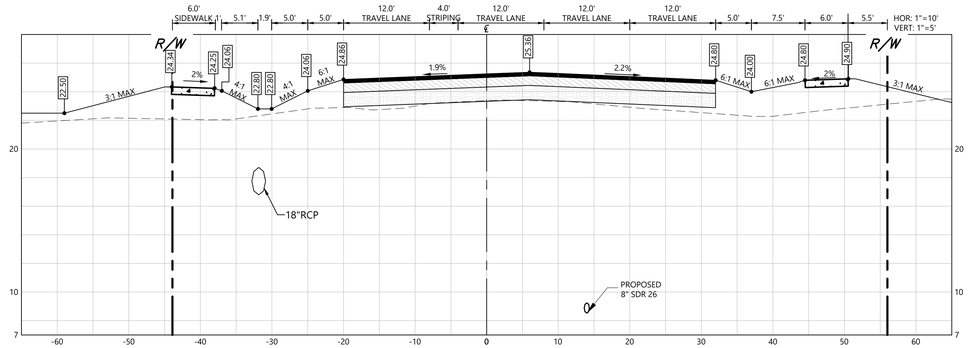
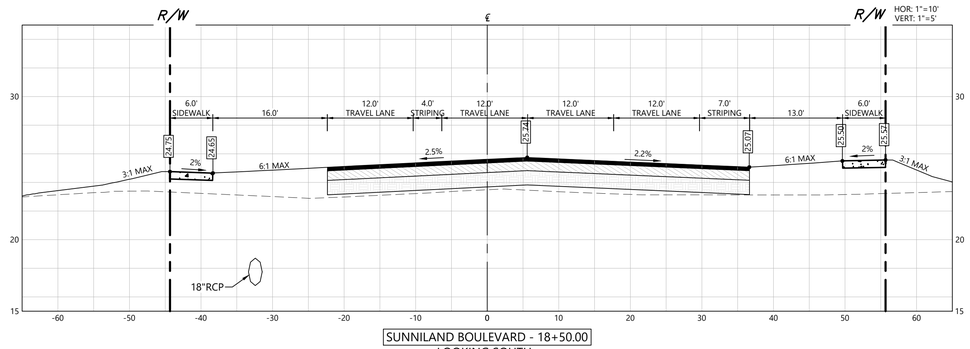


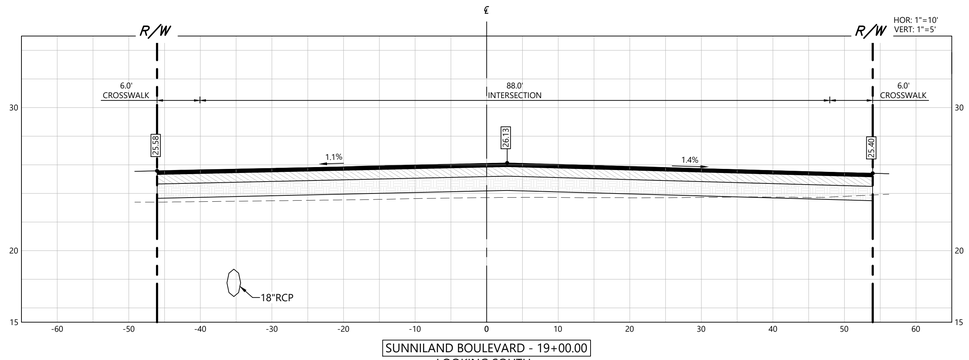
SUNNILAND BOULEVARD - 17+50.00
LOOKING SOUTH



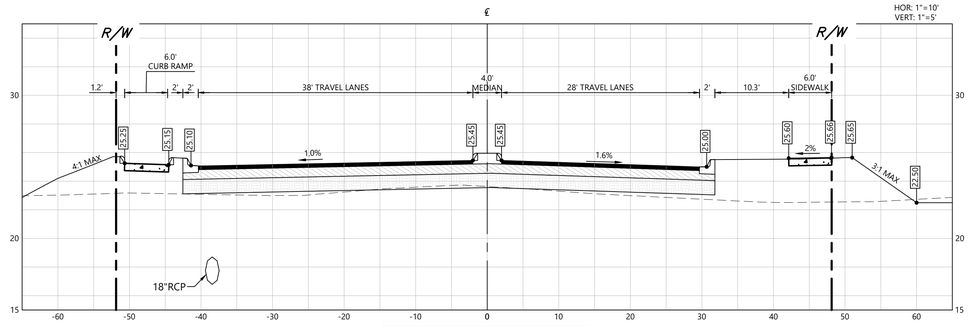
SUNNILAND BOULEVARD - 18+00.00
LOOKING SOUTH



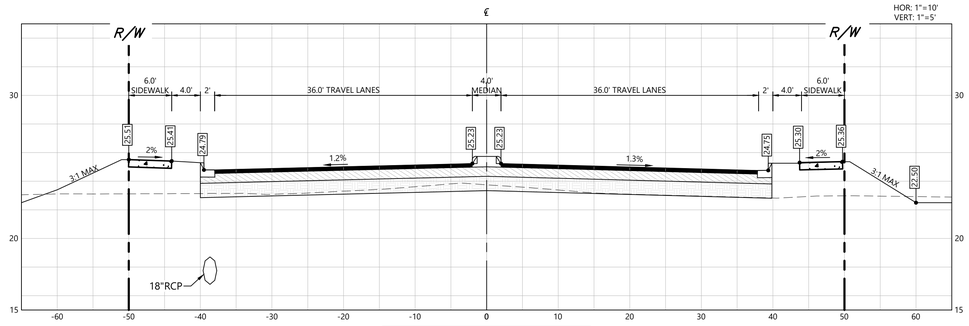
SUNNILAND BOULEVARD - 18+50.00
LOOKING SOUTH



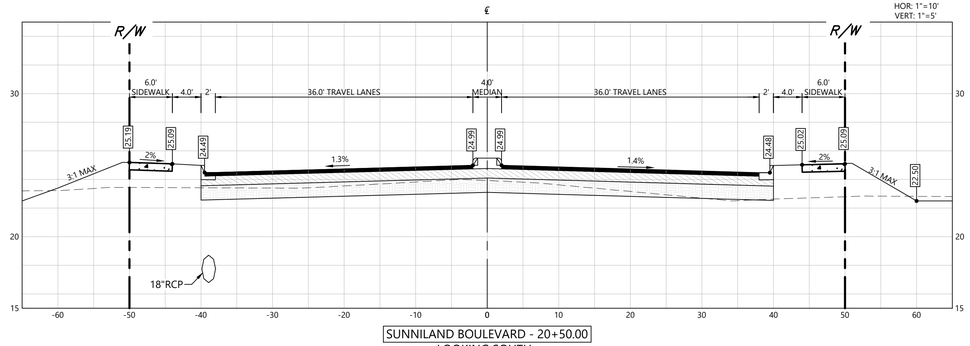
SUNNILAND BOULEVARD - 19+00.00
LOOKING SOUTH



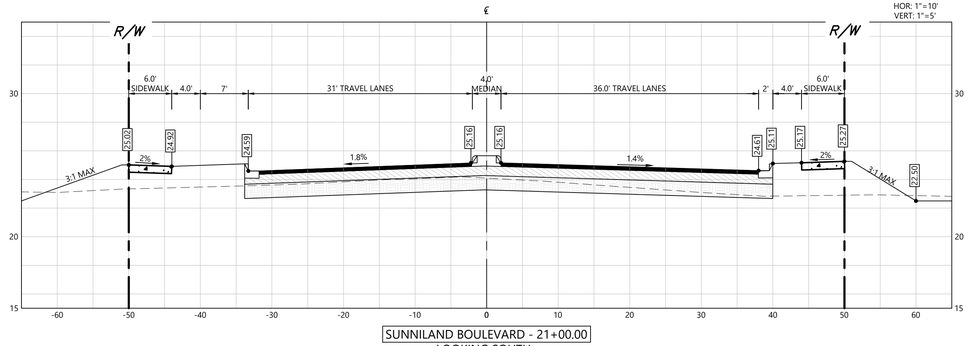
SUNNILAND BOULEVARD - 19+55.47
LOOKING SOUTH



SUNNILAND BOULEVARD - 20+00.00
LOOKING SOUTH



SUNNILAND BOULEVARD - 20+50.00
LOOKING SOUTH



SUNNILAND BOULEVARD - 21+00.00
LOOKING SOUTH

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

SUNNILAND - CROSS SECTIONS 03

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT COMMENTS; 100 X YOUK COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

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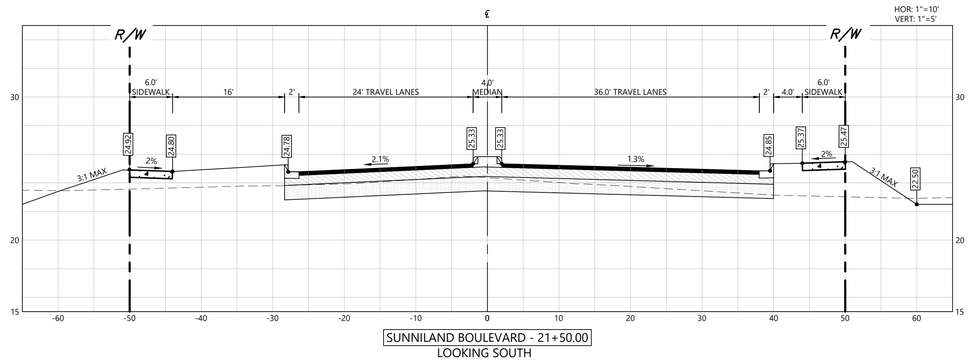
P.E. LIC. #85322

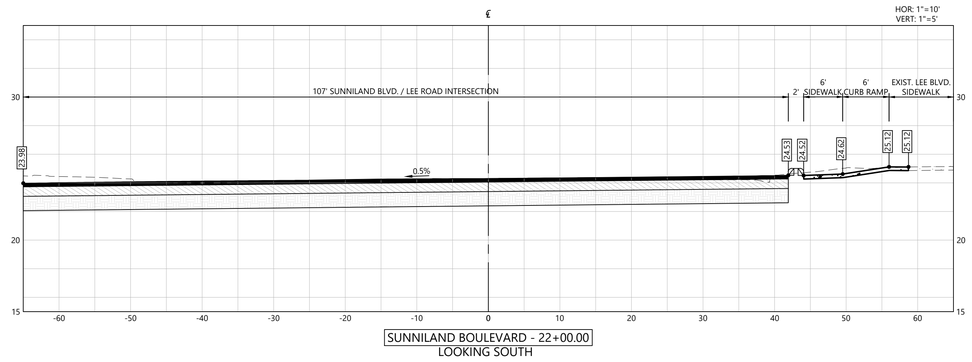
DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 13

S:\Jobs\8844\E&E\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\8844-SUNNILAND BLVD CROSS SECTIONS.dwg, 3/5/2026 7:24:08 PM, KEVIN.GONZALEZ, ATWELL, LLC



SUNNILAND BOULEVARD - 21+50.00
LOOKING SOUTH



SUNNILAND BOULEVARD - 22+00.00
LOOKING SOUTH

CONSTRUCTION NOTES:

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH FLORIDA DEPT. OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.
2. CONTRACTOR TO DETERMINE & VERIFY LOCATION & ELEVATION OF ANY BURIED UTILITY LINES OR CABLES. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR &/OR REPLACEMENT OF ANY UTILITY LINES OR CABLES DISTRIBUTED BY CONSTRUCTION OPERATIONS.
3. THE PERMITTEE SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES, DRAINAGE STRUCTURES, SIDEWALK/SHARED USE PATH, REGULATORY AND TRAFFIC SIGNS, TRAFFIC CONTROL DEVICES, TRAFFIC COUNT STATIONS, PULL BOXES, FIBER OPTIC CABLES, AND PAVEMENT WITHIN THE COUNTY ROW DUE TO THE PROPOSED CONSTRUCTION ACTIVITIES. THE EXISTING LEEDOT'S TRAFFIC DETECTORS AND COMMUNICATIONS INFRASTRUCTURE INCLUDING TRAFFIC COUNT STATIONS, PULL BOXES, AND FIBER OPTIC CABLE SHALL BE PROTECTED DURING THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE LEEDOT TRAFFIC SECTION TO REPAIR ALL DAMAGES TO TRAFFIC SIGNAL EQUIPMENT, TRAFFIC DETECTORS, AND COMMUNICATIONS INFRASTRUCTURE WITHIN 24 HOURS OF BEING DAMAGED.
4. NO UTILITY STRUCTURES, WATER VALVES, METER BOXES, POWER POLES, OR PULL BOXES SHALL BE ALLOWED IN THE SIDEWALK/SHARED USE PATH. THE PERMITTEE SHALL COORDINATE WITH THE UTILITY AND POWER COMPANIES TO RELOCATE THE EXISTING STRUCTURES WITHIN THE SIDEWALK/SHARED USE PATH. WHEN RELOCATION IS NOT FEASIBLE, THE SURFACE FEATURE OF THE STRUCTURES IN THE LOCATION OF THE SIDEWALK/SHARED USE PATH SHALL BE ADJUSTED TO MEET THE ADA REQUIREMENTS FOR SURFACES INCLUDING NON-SLIP TOP SURFACES AND ADJUSTMENT TO BE FLUSH WITH AND AT THE SAME SURFACE SLOPE AS THE SIDEWALK/SHARED USE PATH.
5. SUBGRADE & LIMEROCK BASE COURSES TO BE COMPACTED TO 98% MIN. OF THE MAX. DRY DENSITY AS DETERMINED BY AASHTO T-180 TESTING.
6. THE CONTRACTOR SHALL SUPPLY SATISFACTORY DENSITY TESTS OF SUBGRADE & LIMEROCK BASE MATERIALS TO THE ENGINEER PRIOR TO PAYMENT &/OR FINAL ACCEPTANCE. (ONE TEST PER COURSE PER 400 SQUARE YARDS).
7. TEMPORARY TRAFFIC CONTROL (TTC) OR MAINTENANCE OF TRAFFIC (MOT) PLANS SHALL BE REVIEWED AND APPROVED IN THE ROW PERMIT REVIEW PROCESS. THE PERMITTEE/CONTRACTOR SHALL COORDINATE WITH LEEDOT STAFF TO CONDUCT CONSTRUCTION OPERATIONS TO MINIMIZE INTERFERENCE WITH, OR INTERRUPTION OF VEHICULAR, BICYCLE, OR PEDESTRIAN TRAFFIC UPON AND ALONG THE ROADWAYS. NO WORK CAN PROCEED UNTIL THE MOT PLANS ARE APPROVED BY LEEDOT. PEDESTRIAN/BICYCLE TRAFFIC ACCOMMODATION MUST BE INCLUDED AS PART OF THE MOT PLANS; ANY TEMPORARY FACILITY MUST MEET CURRENT ADA STANDARDS.
8. CONTRACTORS SHALL SOD ALL DISTURBED AREAS & OTHERWISE RESTORE ALL AREAS TO EXISTING CONDITION OR BETTER.
9. UPON COMPLETION OF ALL IMPROVEMENTS TO LEE BLVD AND SUNNILAND BLVD, THE INITIAL STRIPING SHALL BE ACCOMPLISHED BY PAINT. AFTER A 30 DAY "CURING" PERIOD THE ROADWAY WILL THEN BE RE-STRIPED IN THERMOPLASTIC.
10. SIDEWALK AND CURB REPLACEMENT LIMITS SHALL EXTEND TO THE NEAREST CONSTRUCTION JOINT TO PREVENT SMALL SECTIONS OF EXISTING PANELS/CURB FROM BEING LEFT IN PLACE.
11. THE CONCRETE THICKNESS OF THE SIDEWALK WITHIN THE COUNTY ROW AND EASEMENT SHALL BE A MINIMUM THICKNESS OF SIX (6) INCHES. SIDEWALK SHALL BE RECONSTRUCTED WITH A CROSS SLOPE OF 2% OR LESS, AND UNLESS AT A CURB RAMP, SHALL HAVE A RUNNING SLOPE OF 5% OR LESS. ALL SIDEWALK RECONSTRUCTION MUST COMPLY WITH LATEST EDITION OF THE FLORIDA GREENBOOK AND FDOT'S DESIGN STANDARDS, INCLUDING CURB RAMPS AND DETECTABLE WARNING SURFACES.
12. AN AVERAGE DEPTH OF CUT FOR MILLING AND RESURFACING THE COUNTY ROW IS ONE AND A HALF INCHES (1.5'). HOWEVER, DEPENDING UPON THE CONDITIONS OF THE ROADWAY, A GREATER CUT DEPTH MAY BE REQUIRED AT THE PERMITTEE'S SOLE EXPENSE.
13. ASPHALT CORE SAMPLES MUST BE TAKEN AND THE MILLING DEPTH MUST BE AGREED UPON WITH LEEDOT PRIOR TO MILLING.

SIGNING & PAVEMENT MARKING NOTES:

1. ALL SIGNING & STRIPING WITHIN LEE BLVD AND SUNNILAND BLVD RIGHT-OF-WAY IS TO BE THERMOPLASTIC & IN ACCORDANCE WITH FLORIDA DEPT. OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.
2. ALL EXISTING PAVEMENT MARKINGS CONFLICTING WITH NEW STRIPING SHALL BE IMMEDIATELY REMOVED BY HYDROBLASTING TO ELIMINATE THE PREVIOUS MARKINGS REGARDLESS OF WEATHER AND LIGHT CONDITIONS.
3. PREFORMED THERMOPLASTIC MATERIAL PAVEMENT MARKINGS SHALL BE APPLIED FOR ALL PAVEMENT MARKINGS WITHIN THE COUNTY RIGHT-OF-WAY.
4. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, & METHOD OF INSTALLATION. INSTALLATION OF ALL TRAFFIC SIGNS WITHIN LEE BLVD AND SUNNILAND BLVD RIGHT-OF-WAY SHALL COMPLY WITH THE CURRENT LEE COUNTY DESIGN STANDARDS FOR SIGN INSTALLATION.
5. CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY LEEDOT, THEY SHALL BE REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE.
6. CONTRACTOR TO SECURE AND COMPLY WITH LEE COUNTY RIGHT-OF-WAY USE PERMIT.
7. CROSSWALKS AND CURB RAMPS (I.E., WHEELCHAIR RAMPS) SHALL BE PROVIDED AT ALL INTERSECTIONS WHERE PEDESTRIAN WAYS INTERSECT ROADWAYS/DRIVEWAYS. CROSSWALKS AND CURB RAMPS MUST BE CONSISTENT WITH F.D.O.T. DESIGN STANDARDS. ALL DETECTABLE WARNING SURFACE SURFACES SHALL BE CAST-IN-PLACE (WET-SET AND ANCHORED IN CONCRETE).
8. INSTALLATION OF ALL TRAFFIC SIGNS WITHIN THE COUNTY ROW SHALL COMPLY WITH THE CURRENT LEE COUNTY DESIGN STANDARD FOR SIGN INSTALLATION.

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SUNNILAND - CROSS SECTIONS 04

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/16/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES, DOT, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

811 Know what's **below.** **Call** before you dig.

ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE TO ATWELL, LLC. WE DO NOT GUARANTEE ALL FACILITIES ARE SHOWN OR THAT THE LOCATION, DEPTH, AND SIZE OF EACH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION.

RACHEL J. TRACEY
P.E. LIC. #85332

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-25	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

SHEET 14

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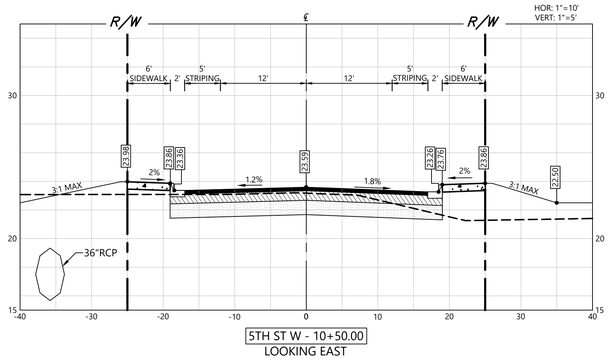
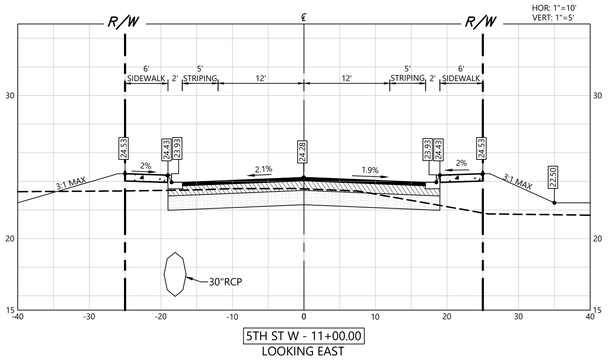


5TH ST W - 10+50.00
LOOKING EAST



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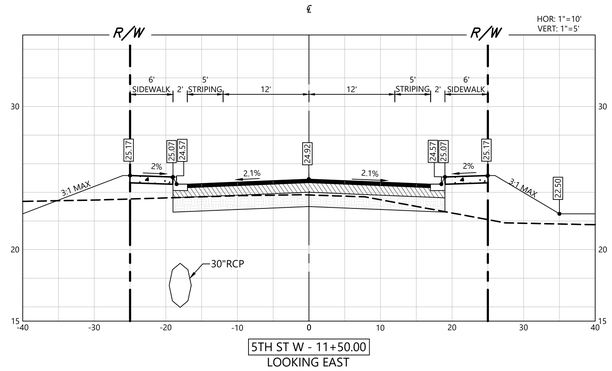
LOOKING EAST



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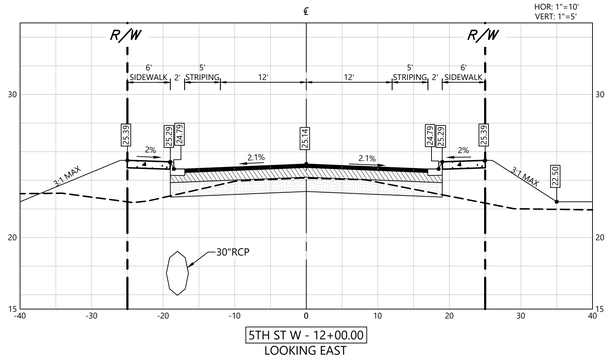

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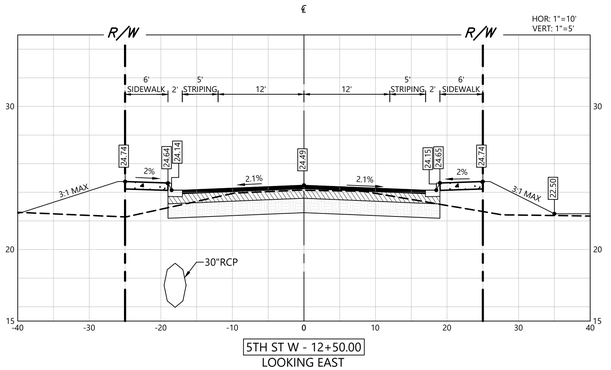

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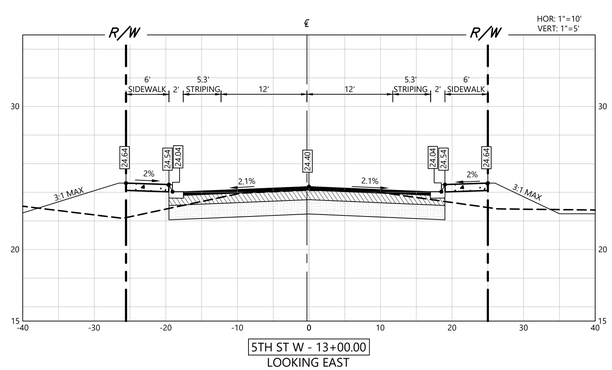

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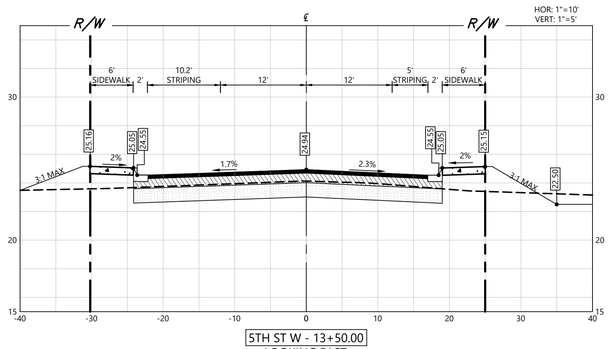

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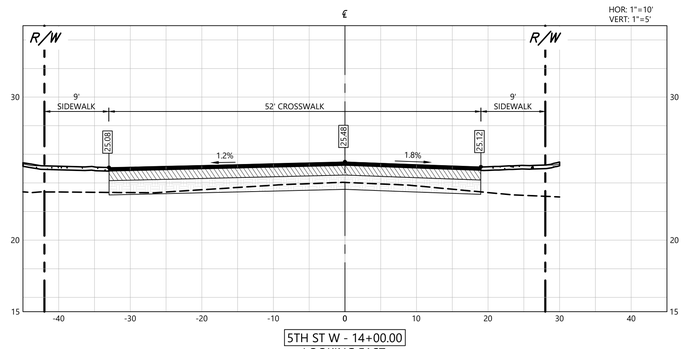

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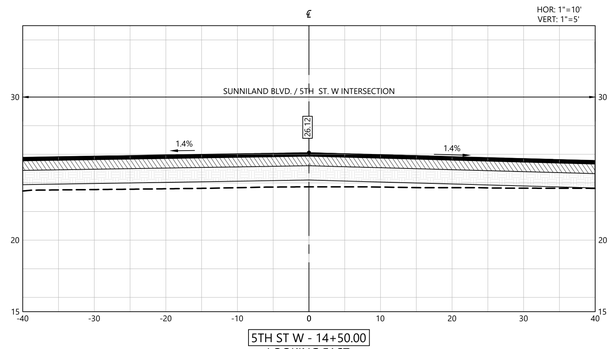

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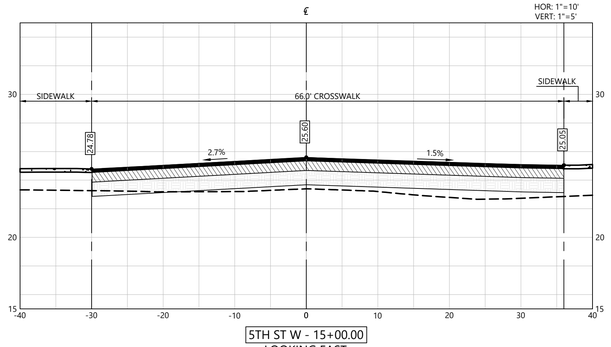

5TH ST W - 15+00.00
LOOKING EAST

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5TH STREET - CROSS SECTIONS 01

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES: 30' X 5'DUK CROSSING	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

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RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 15

S:\Jobs\8844\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\8844-4-5TH STREET-CROSS SECTIONS.dwg, 3/4/2026 2:34:31 PM, KEVIN GONZALEZ, ATWELL, LLC

LEE BLVD - 10+09.90

LEE BLVD - 11+50.00

LEE BLVD - 10+50.00

LEE BLVD - 12+00.00

LEE BLVD - 11+00.00

LEE BLVD - 12+46.07

LEE BLVD - 15+50.00

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LEE BLVD - CROSS SECTIONS 01

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:

WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES TO 2 X 12'LUK CONFIG.	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

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RACHEL J. TRACEY
P.E. LIC. #85322

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KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 16

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LEE BLVD - 16+00.00

LEE BLVD - 17+50.00

LEE BLVD - 19+00.00

LEE BLVD - 16+50.00

LEE BLVD - 18+00.00

LEE BLVD - 19+50.00

LEE BLVD - 17+00.00

LEE BLVD - 18+50.00

LEE BLVD - 20+00.00

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LEE BLVD - CROSS SECTIONS 02

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:
WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	08/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES: DO, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/26/2026	NL

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RACHEL J. TRACEY

P.E. LIC. #65322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-25	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

SHEET 17

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FORT MYERS, FL 33966
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LEE BLVD - CROSS SECTIONS 03

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:
WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES: DO, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/26/2026	NL

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RACHEL J. TRACEY
P.E. LIC. #65322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-25	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

SHEET 18

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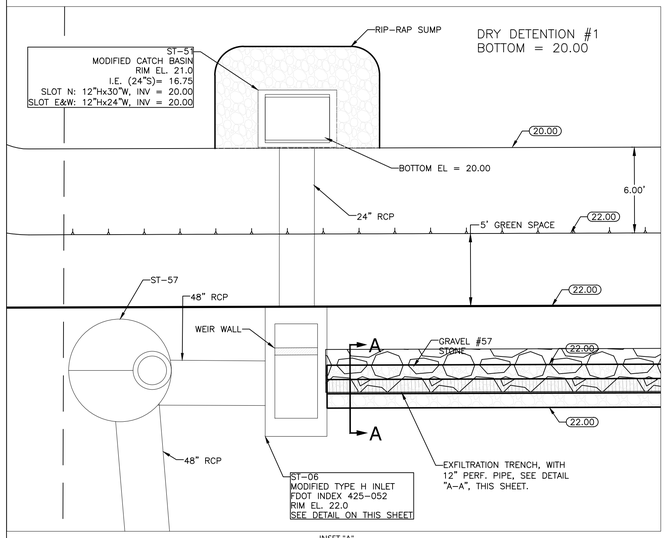

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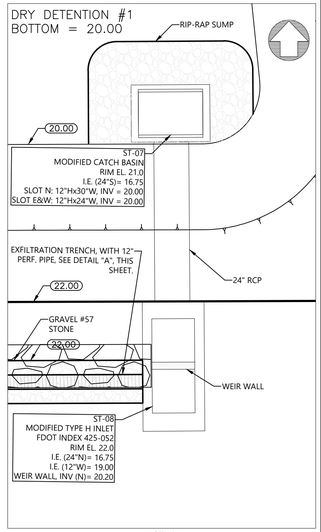

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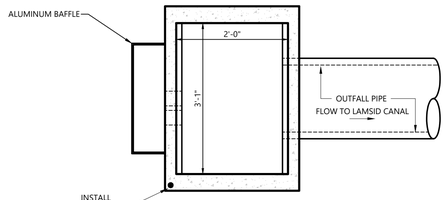
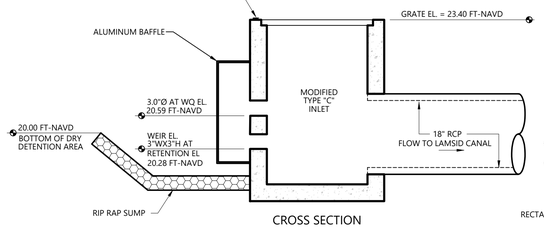
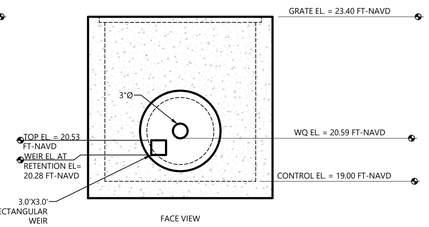


PLAN VIEW



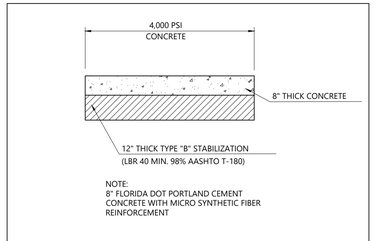
CROSS SECTION



FACE VIEW

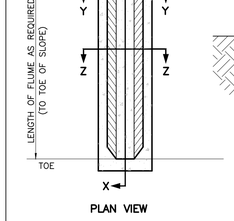
CONTROL STRUCTURE DETAIL
CS-EB (CONTROL STRUCTURE EAST BASIN)
N.T.S.

NOTE: OFFSET WEIRS DUE TO REQUIRED ELEVATIONS, BAFFLE TO COVER BOTH.

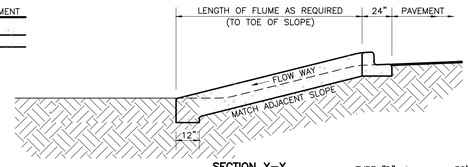


NOTE:
8" FLORIDA DOT PORTLAND CEMENT CONCRETE WITH MICRO SYNTHETIC FIBER REINFORCEMENT

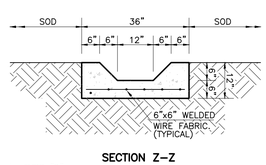
HEAVY DUTY CONCRETE SECTION
N.T.S.



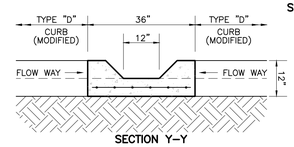
PLAN VIEW



SECTION X–X

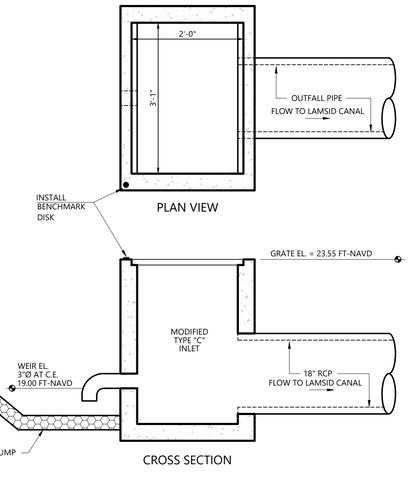


SECTION Z–Z

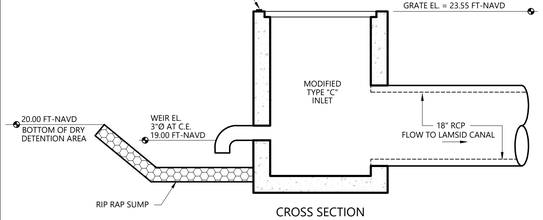


SECTION Y–Y

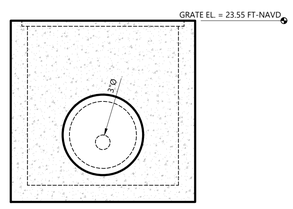
CONCRETE FLUME DETAIL
N.T.S.



PLAN VIEW

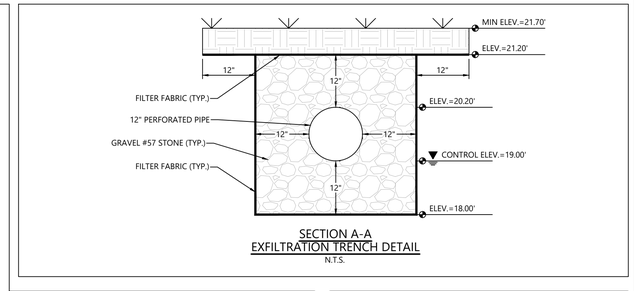


CROSS SECTION

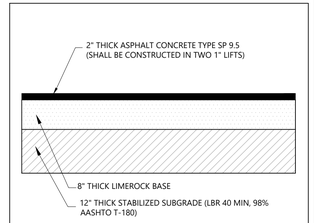


FACE VIEW

CONTROL STRUCTURE DETAIL
CS-WB (CONTROL STRUCTURE WEST BASIN)
N.T.S.

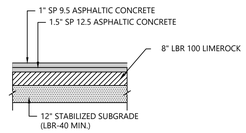


SECTION A-A
EXFILTRATION TRENCH DETAIL
N.T.S.



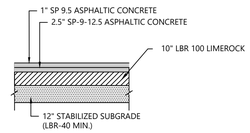
(FOR SUNNILAND BLVD AND LEE BLVD PAVEMENT SEE SPECIFIC DETAILS ON THIS SHEET)

TYPICAL PAVEMENT SECTION
N.T.S.



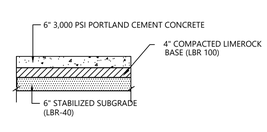
TYPICAL PAVEMENT SECTION (OFF-SITE)
LEEDOT R/W - SUNNILAND BLVD ROW
N.T.S.

NOTE: PER LEEDOT SEC 10-296, TABLE 3

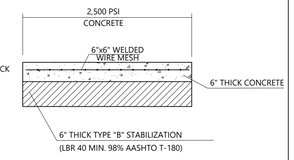


TYPICAL PAVEMENT SECTION (OFF-SITE)
LEEDOT R/W - LEE BLVD ROW
N.T.S.

NOTE: PER LEEDOT SEC 10-296, TABLE 3



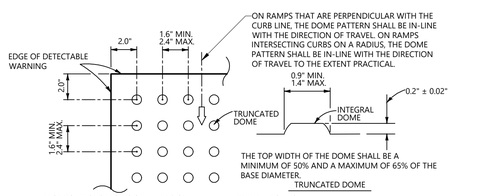
TYPICAL SIDEWALK SECTION
(LEE BLVD & SUNNILAND BLVD ROW)
LEEDOT R/W
N.T.S.



NOTES:
1. SIDEWALKS TO BE 4" THICK WITHOUT WELDED WIRE MESH.
2. SOLID WASTE PAD TO BE 6" THICK WITH WELDED WIRE MESH AS SHOWN.

(FOR SUNNILAND BLVD AND LEE BLVD PAVEMENT SEE SPECIFIC DETAILS ON THIS SHEET)

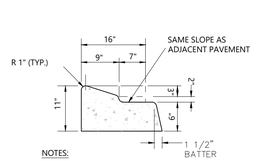
SIDEWALK CONCRETE SECTION
N.T.S.



PLAN VIEW

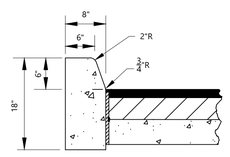
ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF CURB.

DETECTABLE WARNING PAD DETAIL
N.T.S.



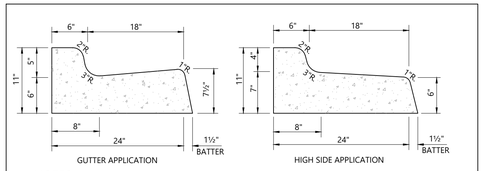
NOTES:
1. CONCRETE TO BE F.D.O.T. CLASS I OR EQUAL. (2,500 P.S.I. MINIMUM STRENGTH)
2. CONSTRUCTION TO BE IN ACCORDANCE WITH F.D.O.T. SPECIFICATION SECTION 520.

TYPE "A" CURB DETAIL
N.T.S.



NOTES:
1. CONCRETE TO BE F.D.O.T. CLASS I OR EQUAL. (2,500 PSI MINIMUM STRENGTH).
2. CONSTRUCTION TO BE IN ACCORDANCE WITH F.D.O.T. SPECIFICATION SECTION 520.

TYPE "D" CURB DETAIL
N.T.S.

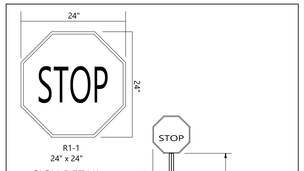


GUTTER APPLICATION

HIGH SIDE APPLICATION

NOTES:
1. CONCRETE TO BE F.D.O.T. CLASS I OR EQUAL. (2,500 P.S.I. MINIMUM STRENGTH)
2. CONSTRUCTION TO BE IN ACCORDANCE WITH F.D.O.T. SPECIFICATION SECTION 520.
3. WHEN USED ON HIGH SIDE OF PAVEMENTS, THE CROSS SLOPE OF THE GUTTER SHALL SPILL OUT WITH 1" FALL AS SHOWN.

TYPE "F" CURB
N.T.S.



24" R1-1 STOP SIGN DETAIL
N.T.S.

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

PAVING, GRADING, AND DRAINAGE DETAILS
DEVELOPMENT ORDER PLANS
SUNNILAND COMMONS
LEE COUNTY, FLORIDA
WMG ACQUISITIONS, LLC
PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT COMMENTS, SEE ATTACHED COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

811 Know what's below. Call before you dig.

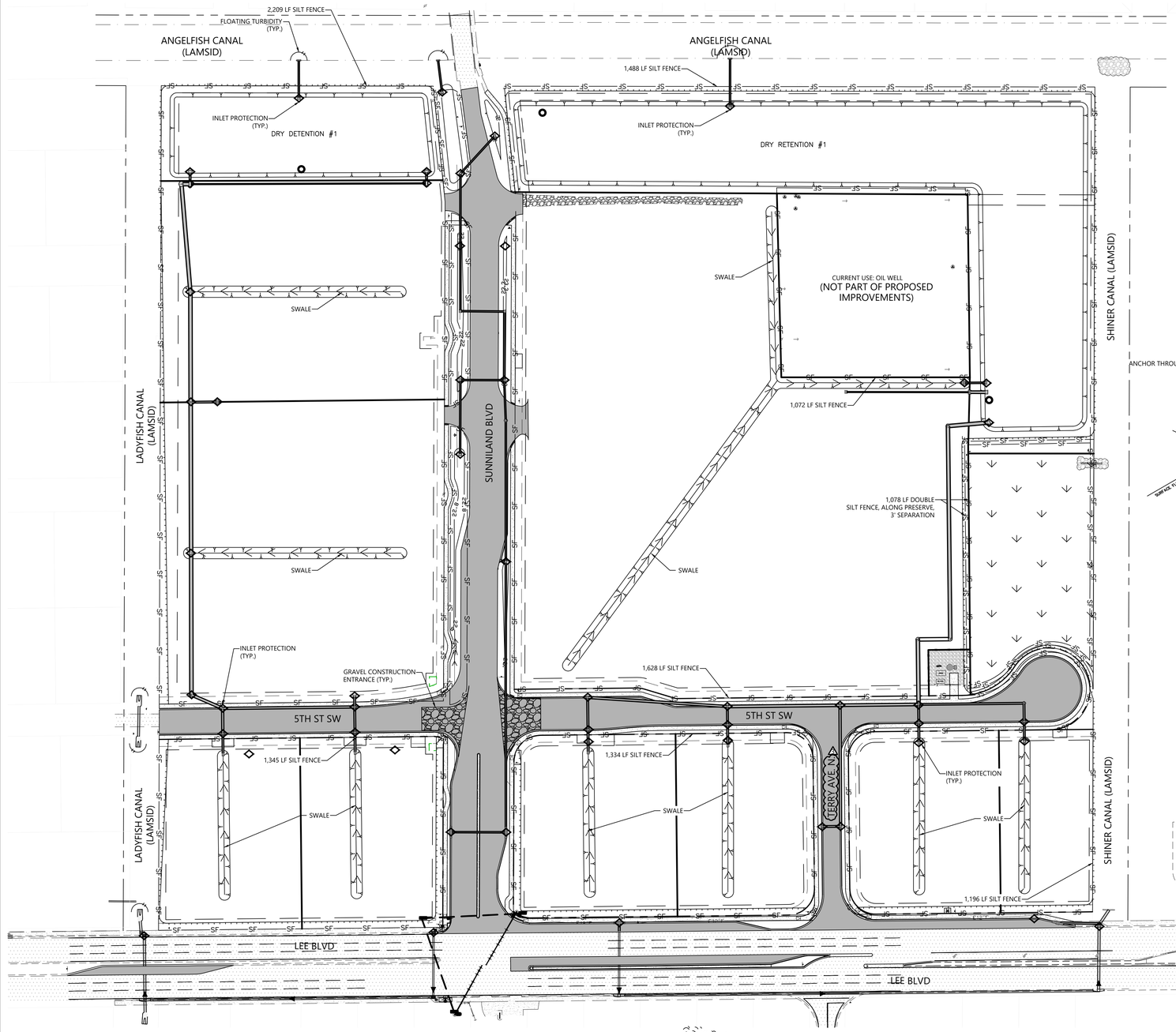
ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE TO THE ENGINEER. THERE IS NO GUARANTEE ALL FACILITIES ARE SHOWN. THE LOCATION, ELEVATION, DEPTH, AND SIZE OF EACH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND FACILITIES PRIOR TO CONSTRUCTION.

RACHEL J. TRACEY
P.E. LIC. #65322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 19

S:\Active\Blue\BIM\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\PAVING, GRADING, AND DRAINAGE DETAILS.dwg, 3/6/2026 2:06:12 PM, KEVIN GONZALEZ, ATWELL, LLC

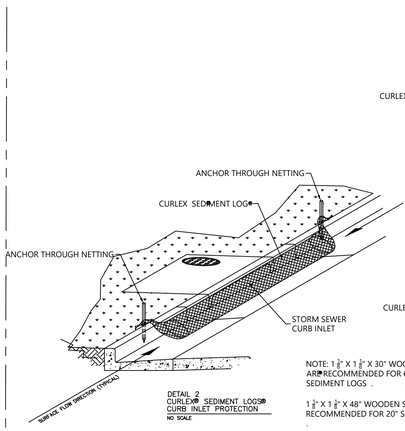


LEGEND:

◇ = STAKED SEDIMENT AT INLETS

SF = STAKED SILT FENCE

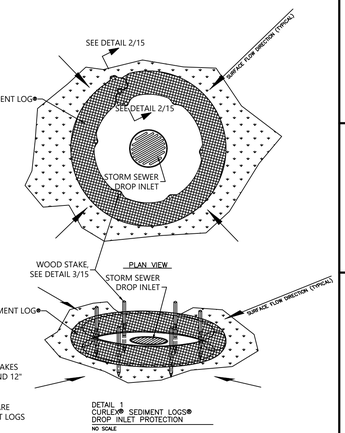
= TURBIDITY BARRIER



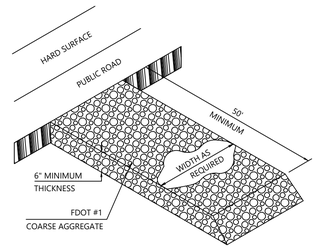
DETAIL 2
CURLEX® SEDIMENT LOGS® CURB INLET PROTECTION
NO SCALE

NOTE: 1 ½" X 1 ½" X 30" WOODEN STAKES ARE RECOMMENDED FOR 6", 9", AND 12" SEDIMENT LOGS .

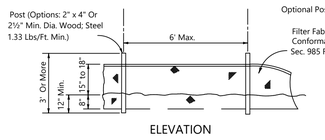
1 ½" X 1 ½" X 48" WOODEN STAKES ARE RECOMMENDED FOR 20" SEDIMENT LOGS .



DETAIL 1
CURLEX® SEDIMENT LOGS® DROP INLET PROTECTION
NO SCALE

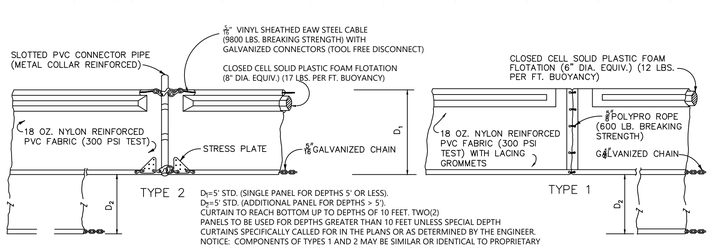


GRAVEL CONSTRUCTION ENTRANCE
Not To Scale



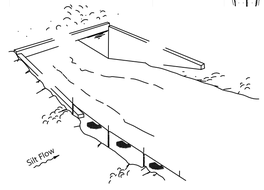
Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

TYPE III SILT FENCE
Not To Scale

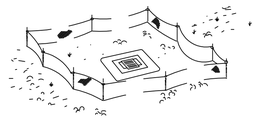


D1=5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D2=5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5').
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER. NOTICE: COMPONENTS OF TYPES 1 AND 2 MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES 1 AND 2 SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIER DETAIL



Type III Silt Fence



Type III Silt Fence Protection Around Ditch Bottom Inlets.

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS
Not To Scale

Note: Spacing for Type III Silt Fence to be in accordance with Chart I, Sheet 1 of 3 and ditch installations at drainage structures Sheet 2 of 3.

Type III Silt Fence

GENERAL NOTES:

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY, APPROPRIATE EROSION CONTROL DEVICES SHALL BE INSTALLED TO CONTROL AND REDUCE SOIL EROSION AND SEDIMENT TRANSPORT TO OFF SITE AREAS. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEVICES SHALL REMAIN IN PLACE UNTIL THE SURROUNDING AREAS ARE ESTABLISHED.

2. THE FOLLOWING MINIMUM REQUIREMENTS ARE RECOMMENDED: (REFERENCE FLORIDA DEVELOPMENT MANUAL, FDER, PPS 6-301 TO 6-500).
   A) BMP 1.01 - GRAVEL CONSTRUCTION ENTRANCE
   B) BMP 1.06 - SILT FENCE
   C) BMP 1.08 - STORM INLET DRAIN PROTECTION

3. APPROPRIATE INLET PROTECTION TO PREVENT EROSION IS REQUIRED FOR ALL INLETS THROUGH OUT SITE CONSTRUCTION.

4. SILT FENCE SHALL BE INSTALLED ALONG THE PROPERTY LINE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

0 80 160
SCALE: 1" = 80'

BEST MANAGEMENT PRACTICES
DEVELOPMENT ORDER PLANS
WMG ACQUISITIONS, LLC

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CULVERT CHANGES, DO, & FDUK COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 2/20/2026	NL

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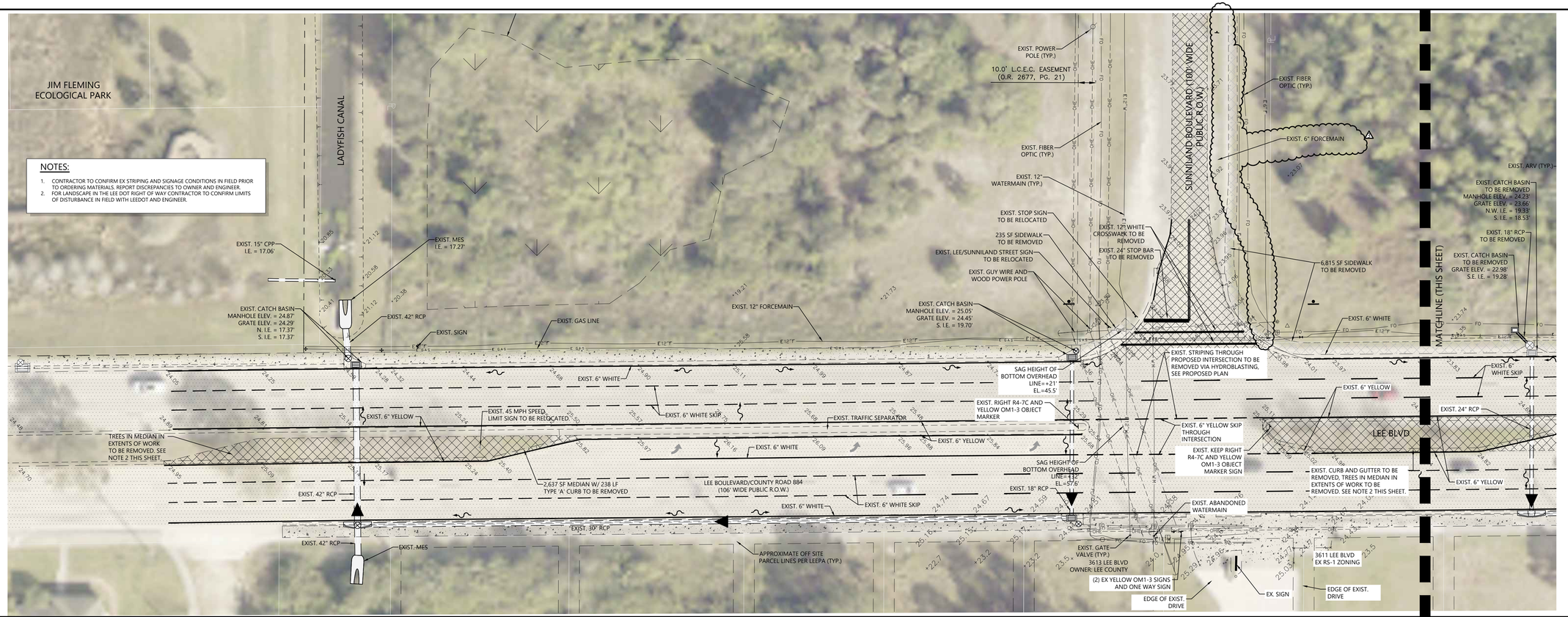
RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 20

S:\Jobs\8844\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\BEST MANAGEMENT PRACTICES.dwg, 3/4/2026 3:07:03 PM, KEVIN GONZALEZ, ATWELL, LLC


JIM FLEMING ECOLOGICAL PARK
LADYFISH CANAL
NOTES:
1. CONTRACTOR TO CONFIRM EX STRIPING AND SIGNAGE CONDITIONS IN FIELD PRIOR TO ORDERING MATERIALS. REPORT DISCREPANCIES TO OWNER AND ENGINEER.
2. FOR LANDSCAPE IN THE LEE DOT RIGHT OF WAY CONTRACTOR TO CONFIRM LIMITS OF DISTURBANCE IN FIELD WITH LEEDOT AND ENGINEER.
EXIST. 15" CPP I.E. = 17.06'
EXIST. MES I.E. = 17.27'
EXIST. CATCH BASIN MANHOLE ELEV. = 24.87' GRATE ELEV. = 24.29' N. I.E. = 17.37' S. I.E. = 17.37'
EXIST. 42" RCP
EXIST. SIGN
EXIST. GAS LINE
EXIST. 12" FORCEMAIN
EXIST. 6" WHITE
EXIST. 6" WHITE SKIP
EXIST. 6" YELLOW
EXIST. 45 MPH SPEED LIMIT SIGN TO BE RELOCATED
EXIST. TRAFFIC SEPARATOR
TREES IN MEDIAN IN EXTENTS OF WORK TO BE REMOVED. SEE NOTE 2 THIS SHEET.
2,637 SF MEDIAN W/ 238 LF TYPE 'A' CURB TO BE REMOVED
LEE BOULEVARD/COUNTY ROAD 884 (106' WIDE PUBLIC R.O.W.)
EXIST. 30" RCP
EXIST. MES
APPROXIMATE OFF SITE PARCEL LINES PER LEEPA (TYP.)
EXIST. POWER POLE (TYP.)
10.0' L.C.E.C. EASEMENT (O.R. 2677, PG. 21)
EXIST. FIBER OPTIC (TYP.)
EXIST. 12" WATERMAIN (TYP.)
SUNNILAND BOULEVARD (100' WIDE PUBLIC R.O.W.)
EXIST. 6" FORCEMAIN
EXIST. STOP SIGN TO BE RELOCATED
235 SF SIDEWALK TO BE REMOVED
EXIST. LEE/SUNNILAND STREET SIGN TO BE RELOCATED
EXIST. GUY WIRE AND WOOD POWER POLE
EXIST. 12" WHITE CROSSWALK TO BE REMOVED
EXIST. 24" STOP BAR TO BE REMOVED
6,815 SF SIDEWALK TO BE REMOVED
EXIST. CATCH BASIN MANHOLE ELEV. = 25.05' GRATE ELEV. = 24.45' S. I.E. = 19.70'
SAG HEIGHT OF BOTTOM OVERHEAD LINE=+21' EL.=45.5'
EXIST. RIGHT R4-7C AND YELLOW OM1-3 OBJECT MARKER
EXIST. STRIPING THROUGH PROPOSED INTERSECTION TO BE REMOVED VIA HYDROBLASTING, SEE PROPOSED PLAN
EXIST. 6" YELLOW SKIP THROUGH INTERSECTION
EXIST. KEEP RIGHT R4-7C AND YELLOW OM1-3 OBJECT MARKER SIGN
SAG HEIGHT OF BOTTOM OVERHEAD LINE=+12' EL.=57.6'
EXIST. 18" RCP
EXIST. ABANDONED WATERMAIN
EXIST. GATE VALVE (TYP.) 3613 LEE BLVD OWNER: LEE COUNTY
(2) EX YELLOW OM1-3 SIGNS AND ONE WAY SIGN
EDGE OF EXIST. DRIVE
EX. SIGN
EDGE OF EXIST. DRIVE
3611 LEE BLVD EX RS-1 ZONING
EXIST. CURB AND GUTTER TO BE REMOVED, TREES IN MEDIAN IN EXTENTS OF WORK TO BE REMOVED. SEE NOTE 2 THIS SHEET.
EXIST. 24" RCP
EXIST. ARV (TYP.)
EXIST. CATCH BASIN TO BE REMOVED MANHOLE ELEV. = 24.23' GRATE ELEV. = 23.66' N.W. I.E. = 19.33' S. I.E. = 18.53'
EXIST. 18" RCP TO BE REMOVED
EXIST. CATCH BASIN TO BE REMOVED GRATE ELEV. = 22.98' S.E. I.E. = 19.28'
MATCHLINE (THIS SHEET)
LEE BLVD
EXIST. 6" WHITE SKIP
EXIST. 6" YELLOW
EXIST. 24" RCP
EXIST. 42" RCP
EXIST. 6" WHITE SKIP
EXIST. 6" YELLOW
EXIST. 42" RCP
EXIST. MES
EXIST. 30" RCP
LEE BOULEVARD/COUNTY ROAD 884 (106' WIDE PUBLIC R.O.W.)
EXIST. 6" WHITE
EXIST. 6" WHITE SKIP
EXIST. 6" YELLOW

NOTES:

1. PAVEMENT MARKINGS PER FDOT INDEX 711-001.
2. PROPOSED SIGNAL AT INTERSECTION OF SUNNILAND BLVD AND LEE BLVD, SEE SIGNAL PLANS FOR DETAILS.
3. CONTRACTOR TO CONFIRM LOCATION OF EXISTING STRIPING AND TURN LANE THROUGHOUT SUNNILAND BLVD AND LEE BLVD. CONTACT ENGINEER AND OWNER WITH DISCREPANCIES. INFORMATION PROVIDED BASED ON BEST AVAILABLE DATA AT TIME OF DESIGN.

LADYFISH CANAL

EXIST. 15" CPP
I.E. = 17.06'

EXIST. MES
I.E. = 17.27'

EXIST. 42" RCP

EXIST. CATCH BASIN
MANHOLE ELEV. = 24.87'
GRATE ELEV. = 24.29'
N. I.E. = 17.37'
S. I.E. = 17.37'

TEMPORARY SWALE

LOT 3
1.25 AC

TEMPORARY SWALE

LOT 4
1.25 AC

10' L.C.E.C. EASEMENT
(O.R. 2677, PG. 21)

ST-26
TYPE 6 INLET
RIM EL = 24.40
I.E. (18" E)= 17.00

18"RCP - 78'

SUNNILAND BOULEVARD
(100' WIDE PUBLIC R.O.W.)

ST-27
TYPE 6 INLET
RIM EL = 24.40
I.E. (18" W)= 17.00
I.E. (18" N)= 17.00

EXIST. 4"
FORCEMAIN (TYP.)

TEMPORARY SWALE

LOT 6
1.51 AC

MATCHLINE

6" WHITE PAVEMENT MARKING
PER FDOT INDEX NO. 711-001 (TYP.)

WHITE TRAFFIC ARROW
PER FDOT INDEX NO.
711-001 (TYP.)

R1-1 "STOP" SIGN W/ 24" STOP BAR
(TYP)

RELOCATED LEE/SUNNILAND
STREET SIGN

SAG HEIGHT OF
BOTTOM OVERHEAD
LINE= +21'
EL.=45.5'

4.0'
MIN.

6" YELLOW STRIPING W/ 18"
YELLOW GORE STRIPING 10.00' O.C.
PER FDOT INDEX NO. 711-001 (TYP.)

5' Ø TRAFFIC SIGNAL POLE
W/ MAST ARMS (SEE SIGNAL
PLANS FOR DETAILS)

ST-43
TYPE 6 INLET
RIM EL = 23.42
I.E. (24" S)= 18.53

EXIST. CATCH BASIN
MANHOLE ELEV. = 25.05'
GRATE ELEV. = 24.45'
S. I.E. = 19.70'

CONTRACTOR TO MODIFY THE TOP OF THE THROAT
INLET FOR LEVEL (LESS THAN 2% SLOPE). COORDINATE
ON SITE MEETING WITH OWNER AND ENGINEER ACTUAL
LIMITS TO BE DETERMINED IN FIELD

EXIST. 12"
WATERMAIN

EXIST. 6" WHITE

EXIST. TYPE 'F'
CURB (TYP.)

EXIST. 42" RCP

WHITE TRAFFIC ARROW
PER FDOT INDEX NO. 711-001 (TYP.)

50.0' TAPER

185.0' EXTENSION

475.0'

290.0' EXIST. TURN LANE

RELOCATED 45 MPH
SPEED LIMIT SIGN

TYPE 'F'
CURB (TYP.)

MATCH EXISTING
±24.95

MATCH EXISTING
±25.09

MATCH EXISTING
±25.82

MATCH EXISTING
±25.33

EXIST. WHITE 6"
10'-30' SKIP

6" WHITE

EXIST. 6" WHITE

APPROX. OFF SITE
PARCEL LINES PER
LEEPA (TYP)

EXIST. CONCRETE SEPARATOR, EX. KEEP
RIGHT R4-7C AND YELLOW OM1-3
OBJECT MARKER SIGN

EXIST. 18" RCP

MATCH EXISTING
±24.37

24" WHITE
STOP BAR

12" WHITE
CROSSWALK

EXIST. 12"
WATERMAIN

EXIST. GATE
VALVE (TYP.)

EXIST. FIBER
OPTIC (TYP.)

MATCH EXISTING
±24.47

MATCH EXISTING
±24.49

5' Ø TRAFFIC SIGNAL
POLE W/ MAST ARMS
(SEE SIGNAL PLANS
FOR DETAILS)
3613 LEE BLVD
OWNER: LEE COUNTY

6.0' CROSSWALK
-12" WHITE STRIPES (TYP.)

WHITE 2'-4' DOTTED
GUIDELINE

SAG HEIGHT OF
BOTTOM OVERHEAD
LINE= ±32'
EL.=57'

EXIST. ABANDONED
WATERMAIN

EXIST. POWER POLE
AND GUY WIRES
(2) EXIST. YELLOW
OM1-3 SIGNS AND
ONE WAY SIGN

EXIST. CONC.
PAVEMENT

EDGE OF EXIST.
DRIVE

EXIST. SIGN

EDGE OF EXIST.
DRIVE

3611 LEE BLVD
EX RS-1 ZONING

MATCHLINE

TEMPORARY SWALE

LOT 6
1.51 AC

ST-43
TYPE 6 INLET
RIM EL = 23.42
I.E. (24" S)= 18.53

6" WHITE

6" YELLOW

LEE BOULEVARD / COUNTY ROAD 884
(106' WIDE PUBLIC R.O.W.)

MATCH EXISTING
±23.96

MATCH EXISTING
±23.85

MATCH EXISTING
±23.66

MATCH EXISTING
±24.93

MATCH EXISTING
±24.68

MATCH EXISTING
±25.02

MATCH EXISTING
±24.68

MATCH EXISTING
±25.02

MATCH EXISTING
±24.02

MATCH EXISTING
±24.21

MATCH EXISTING
±23.92

MATCH EXISTING
±24.11

MATCH EXISTING
±23.61

MATCH EXISTING
±23.42

MATCH EXISTING
±23.66

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

0 30 60
SCALE: 1" = 30'

LEE BOULEVARD IMPROVEMENTS

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES, DO, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/26/2026	NL

811 Know what's below. Call before you dig.

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RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 22

MATCHLINE (SEE SHEET 27)

TEMPORARY SWALE

LOT 6
1.51 AC

TEMPORARY SWALE

LOT 7
0.94 AC

TERRY AVE N

30"RCP - 171'

24"RCP - 26'

ST-36
TYPE 9 INLET
RIM EL = 23.80
I.E. (24" E)= 16.50

ST-35
TYPE 9 INLET
RIM EL = 23.80
I.E. (24" W)= 16.50
I.E. (30" N)= 15.75

24'

10'
P.U.E.

50'
R.O.W.

10'
P.U.E.

TEMPORARY SWALE

LOT 8
2.04 AC

TEMPORARY SWALE

SHINER CANAL

MATCHLINE

ST-27
TYPE 6 INLET
RIM EL = 24.40
I.E. (18" W)= 17.00
I.E. (18" N)= 17.00

EXIST. 4"
FORCEMAIN (TYP.)

6" YELLOW STRIPING W/ 18"
YELLOW GORE STRIPING 10.00' O.C.
PER FDOT INDEX NO. 711-001 (TYP.)

5' Ø TRAFFIC SIGNAL POLE
W/ MAST ARMS (SEE SIGNAL
PLANS FOR DETAILS)

ST-43
TYPE 6 INLET
RIM EL = 23.42
I.E. (24" S)= 18.53

NOTE: WHEN SIDEWALK IS ABUTTING
GREEN SPACE, A 1FT, 6:1 MAX. AREA
SHALL BE PROVIDED ON EACH SIDE
OF THE SIDEWALK.

R1-1 "STOP" SIGN W/ 24" STOP BAR AND
RIGHT TURN ONLY SIGN (R3-5R) (TYP.)

6" YELLOW STRIPING W/ 18"
YELLOW GORE STRIPING 20' O.C.
PER FDOT INDEX NO. 711-001 (TYP.)

SINGLE INVERTED U BICYCLE RACK.
PRIOR TO ORDERING MATERIALS
CONTRACTOR TO COORDINATE WITH
LEETRAN TO CONFIRM BIKE RACK
MODEL.

EXIST. FIBER OPTIC

EXIST. GAS

EXIST. 12"
FORCE MAIN

NOTE: WHEN SIDEWALK IS ABUTTING
GREEN SPACE, A 1FT, 6:1 MAX. AREA
SHALL BE PROVIDED ON EACH SIDE
OF THE SIDEWALK.

ST-44
TYPE 6 INLET
RIM EL = 23.41
I.E. (24" E)= 16.15

EXIST. 42" RCP

EXIST. HEADWALL
I.E. = 6.20'

EXIST. CATCH BASIN
MANHOLE ELEV. = 24.03'
GRATE ELEV. = 23.42'
N. I.E. = 16.13'
S. I.E. = 16.03'

EXIST. 42" RCP

6" WHITE STRIPING W/ 18" WHITE
GORE STRIPING 20' O.C. PER FDOT
INDEX NO. 711-001

ONE WAY R6-1R SIGN AND
TYPE 3 OBJECT MARKER SIGN

TRANSITION 6"
WHITE TO 6" YELLOW

143'

5.0'

25.0'

4' CONCRETE
SEPARATOR

4' CONCRETE
SEPARATOR

R70'

R5'

R3-4 SIGN (NO U TURN)

MATCH EXIST. CONCRETE
MEDIAN W/ PROPOSED
CONCRETE MEDIAN

PROPOSED EDGE OF PAVEMENT
TO MATCH AND ALIGNMENT OF
EX. PAVEMENT (TYP.)

RELOCATED R4-7C AND YELLOW
OM1-3 OBJECT MARKER SIGN

EXIST. STOP BAR AND STOP
SIGN, PROP R3-5R RIGHT
TURN ONLY SIGN

TERRY AVE N

EXIST. 12" WHITE
CROSSWALK

EXIST. 6" DBL
YELLOW

6" WHITE STRIPING W/ 18" WHITE
GORE STRIPING 20' O.C. PER FDOT
INDEX NO. 711-001

WHITE TRAFFIC ARROW
PER FDOT INDEX NO. 711-001 (TYP.)

6.0'
CROSSWALK

6" WHITE

EXIST. 6" WHITE

EXIST. 6" YELLOW

EXIST. WHITE 6"
10'-30' SKIP

6" YELLOW

LEE BOULEVARD / COUNTY ROAD 884
(106' WIDE PUBLIC R.O.W.)

EXIST. CONC.
PAVEMENT

EDGE OF EXIST.

APPROX. OFF SITE
PARCEL LINES PER
LEEPA (TYP)

MATCH EXISTING
±24.24

MATCH EXISTING
±24.42

MATCH EXISTING
±24.50

MATCH EXISTING
±25.16

MATCH EXISTING
±25.05

MATCH EXISTING
±25.32

MATCH EXISTING
±25.20

MATCH EXISTING
±24.53

MATCH EXISTING
±24.19

MATCH EXISTING
±24.11

MATCH EXISTING
±23.93

MATCH EXISTING
±23.88

MATCH EXISTING
±25.38

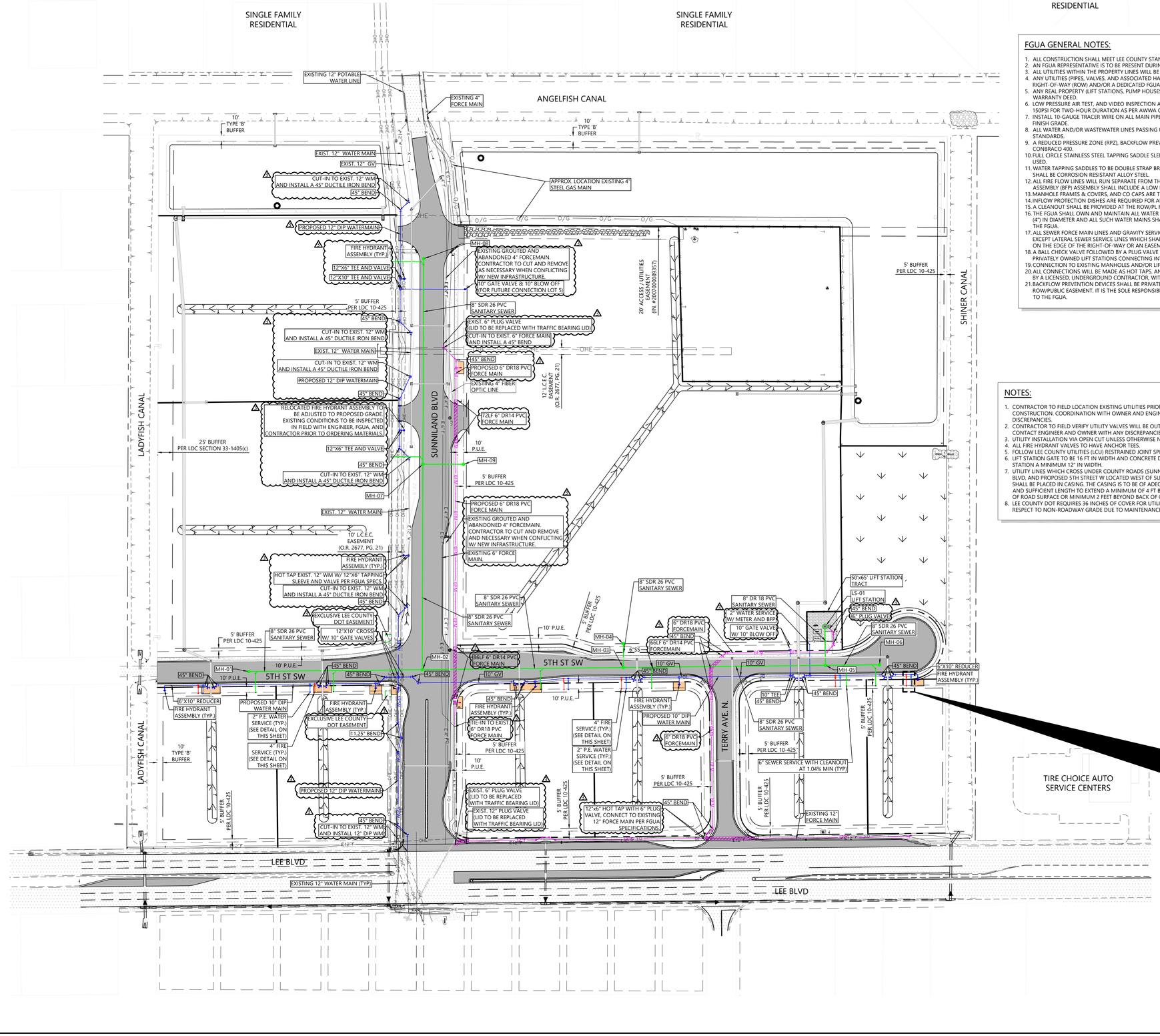
MATCH EXISTING
±24.21

MATCH EXISTING
±24.08

MATCH EXISTING
±23.74

MATCH EXISTING
±23.60

D:\Jobs\Bid\8844\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\LEE BOULEVARD IMPROVEMENTS.dwg, 3/4/2026 2:55:59 PM, KEVIN.GONZALEZ, ATWELL, LLC



FGUA GENERAL NOTES:

1. ALL CONSTRUCTION SHALL MEET LEE COUNTY STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. AN FGUA REPRESENTATIVE IS TO BE PRESENT DURING CONNECTIONS TO EXISTING FACILITIES WITH 72-HOUR NOTIFICATION.
3. ALL UTILITIES WITHIN THE PROPERTY LINES WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER.
4. ANY UTILITIES (PIPES, VALVES, AND ASSOCIATED HARDWARE) TO BE CONVEYED TO FGUA WILL BE LOCATED WITHIN AN EXISTING PUBLIC UTILITY EASEMENT, RIGHT-OF-WAY (ROW) AND/OR A DEDICATED FGUA UTILITY EASEMENT.
5. ANY REAL PROPERTY (LIFT STATIONS, PUMP HOUSES, WELLS, ETC.) WILL NOT BE LOCATED WITHIN THE ROW AND WILL BE CONVEYED TO FGUA VIA A SPECIFIC WARRANTY DEED.
6. LOW PRESSURE AIR TEST, AND VIDEO INSPECTION ARE REQUIRED FOR THE GRAVITY COLLECTION SYSTEM - WATER SYSTEMS ARE TESTED TO A MINIMUM OF 150PSI FOR TWO-HOUR DURATION AS PER AWWA C 600 STANDARDS. FIRE SYSTEMS ARE NOT THE FGUA RESPONSIBILITY.
7. INSTALL 10-GAUGE TRACER WIRE ON ALL MAIN PIPELINES. WIRE TO EXTEND INTO EACH VALVE BOX WITH SUFFICIENT EXCESS TO BRING WIRE THREE FEET ABOVE FINISH GRADE.
8. ALL WATER AND/OR WASTEWATER LINES PASSING UNDER PAVED AREAS WILL BE CONSTRUCTED WITH A CASING AND SHALL APPLY WITH LOCAL OR STATE DOT STANDARDS.
9. A REDUCED PRESSURE ZONE (RPZ), BACKFLOW PREVENTION ASSEMBLY (BFP) IS REQUIRED. ACCEPTABLE MODELS FEBCO 825Y, WATTS 909, WILKINS 975XL, OR CONBRACO 400.
10. FULL CIRCLE STAINLESS STEEL TAPPING SADDLE SLEEVE WITH RESILIENT SEATED TAPPING VALVE FOR PROPOSED WATER AND FORCE MAIN CONNECTIONS TO BE USED.
11. WATER TAPPING SADDLES TO BE DOUBLE STRAP BRASS OR DUCTILE IRON OR EPOXY COATED STEEL WITH STAINLESS STEEL HARDWARE. TIE STRAPS AND BOLTS SHALL BE CORROSION RESISTANT ALLOY STEEL.
12. ALL FIRE FLOW LINES WILL RUN SEPARATE FROM THE DOMESTIC WATER MAINS AND HAVE A FIRE DETECTION METER AND A FIRE LINE BACKFLOW PREVENTION ASSEMBLY (BFP) ASSEMBLY SHALL INCLUDE A LOW FLOW BY-PASS METER W/ RPZ.
13. MANHOLE FRAMES & COVERS, AND CO CAPS ARE TO BE WATER TIGHT; IF NEEDED EXISTING MANHOLE TOPS ARE TO BE ADJUSTED TO PROPOSED GRADE.
14. INFLOW PROTECTION DISHES ARE REQUIRED FOR ALL MANHOLES; STAINLESS STEEL IN PAVED AREAS, ABS IN UNPAVED AREAS.
15. A CLEANOUT SHALL BE PROVIDED AT THE ROW/PL FOR ALL SERVICE CONNECTIONS
16. THE FGUA SHALL OWN AND MAINTAIN ALL WATER SERVICE LINES UP TO THE POINT OF CONNECTION. All WATER MAINS SHALL BE A MINIMUM OF FOUR INCHES (4") IN DIAMETER AND ALL SUCH WATER MAINS SHALL BE CONSTRUCTED IN DEDICATED RIGHTS-OF-WAY OR APPROPRIATE UTILITY EASEMENTS DEDICATED TO THE FGUA.
17. ALL SEWER FORCE MAIN LINES AND GRAVITY SERVICE LINES ACCEPTED MUST BE AT LEAST FOUR INCHES (4") IN DIAMETER AND EIGHT INCHES (8"), RESPECTIVELY, EXCEPT LATERAL SEWER SERVICE LINES WHICH SHALL BE NO LESS THAN SIX INCHES (6") IN DIAMETER AND ACCEPTED BY THE FGUA TO A CLEANOUT LOCATED ON THE EDGE OF THE RIGHT-OF-WAY OR AN EASEMENT.
18. A BALL CHECK VALVE FOLLOWED BY A PLUG VALVE WILL BE INSTALLED ON FORCE MAINS LOCATED IN PUE OR R/W AT THE PROPERTY LINE DISCHARGING FROM PRIVATELY OWNED LIFT STATIONS CONNECTING INTO THE UTILITY MAINS
19. CONNECTION TO EXISTING MANHOLES AND/OR LIFT STATIONS SHALL BE BY CORE BORE WITH KOR-N-SEAL CONNECTORS.
20. ALL CONNECTIONS WILL BE MADE AS HOT TAPS. ANY EXCEPTIONS TO THIS WILL REQUIRE FGUA APPROVAL. ALL HOT TAP CONNECTIONS SHALL BE PERFORMED BY A LICENSED, UNDERGROUND CONTRACTOR, WITH ADVANCE NOTIFICATION (72 HOURS) TO THE FGUA INSPECTOR.
21. BACKFLOW PREVENTION DEVICES SHALL BE PRIVATELY OWNED AND MAINTAINED. BFPDS SHOULD BE LOCATED OUTSIDE OF ANY FGUA EASEMENT OR ROW/PUBLIC EASEMENT. IT IS THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN THE DEVICE AND PROVIDE ANNUAL TESTING CERTIFICATIONS TO THE FGUA.

NOTES:

1. CONTRACTOR TO FIELD LOCATION EXISTING UTILITIES PRIOR TO CONSTRUCTION. COORDINATION WITH OWNER AND ENGINEER ON ANY DISCREPANCIES.
2. CONTRACTOR TO FIELD VERIFY UTILITY VALVES WILL BE OUT OF CURB LINES. CONTACT ENGINEER AND OWNER WITH ANY DISCREPANCIES.
3. UTILITY INSTALLATION VIA OPEN CUT UNLESS OTHERWISE NOTED.
4. ALL FIRE HYDRANT VALVES TO HAVE ANCHOR TEES.
5. FOLLOW LEE COUNTY UTILITIES (LCU) RESTRAINED JOINT SPECIFICATIONS.
6. LIFT STATION GATE TO BE 16 FT IN WIDTH AND CONCRETE DRIVEWAY TO LIFT STATION A MINIMUM 12' IN WIDTH.
7. UTILITY LINES WHICH CROSS UNDER COUNTY ROADS (SUNNILAND BLVD, LEE BLVD, AND PROPOSED 5TH STREET W LOCATED WEST OF SUNNILAND BLVD SHALL BE PLACED IN CASING. THE CASING IS TO BE OF ADEQUATE STRENGTH AND SUFFICIENT LENGTH TO EXTEND A MINIMUM OF 4 FT BEYOND EACH EDGE OF ROAD SURFACE OR MINIMUM 2 FEET BEYOND BACK OF CURB.
8. LEE COUNTY DOT REQUIRES 36 INCHES OF COVER FOR UTILITY LINES WITH RESPECT TO NON-ROADWAY GRADE DUE TO MAINTENANCE CONCERNS.

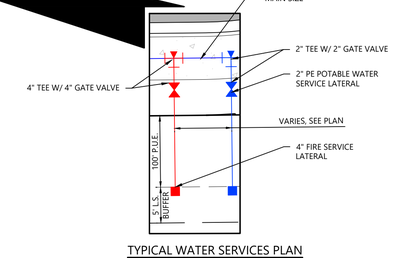
PROPOSED SANITARY TABLE

STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAILS
LS-01	LIFT STATION	RIM = 25.00' INV IN = 4.77
MH-01	SANITARY MANHOLE	RIM = 24.96' INV OUT = 10.25
MH-02	SANITARY MANHOLE	RIM = 26.04' INV IN = 9.08 INV OUT = 8.04 INV OUT = 8.14
MH-03	SANITARY MANHOLE	RIM = 24.29' INV IN = 6.69 INV IN = 8.84 INV OUT = 6.59
MH-04	SANITARY MANHOLE	RIM = 22.50' INV OUT = 9.00
MH-05	SANITARY MASTER MANHOLE	RIM = 24.46' INV IN = 5.23 INV IN = 5.13 INV OUT = 5.03
MH-06	SANITARY MANHOLE	RIM = 24.08' INV OUT = 5.49
MH-07	SANITARY MANHOLE	RIM = 24.68' INV IN = 9.52 INV OUT = 9.62 INV OUT = 9.63
MH-08	SANITARY MANHOLE	RIM = 24.77' INV IN = 11.00
*MH-09	SANITARY MANHOLE	RIM = 23.47' INV IN = 9.90

* CONSTRUCT AS MASTER MANHOLE PER LCU DETAILS AND SPECIFICATIONS

LEGEND:

PROPOSED FGUA EASMENT



TYPICAL WATER SERVICES PLAN
SCALE: 1"=5'

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

0 80 160
SCALE: 1" = 80'

MASTER UTILITY PLAN
DEVELOPMENT ORDER PLANS
SUNNILAND COMMONS
LEE COUNTY, FLORIDA
WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT COMMENTS; DD, & FGUA COMMENTS	NL
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RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 23

S:\Utility\8844\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\MASTER UTILITY PLAN.dwg, 3/5/2026 3:25:35 PM, KEVIN.GONZALEZ, ATWELL, LLC

WATER ITEMS	TOTAL
2" PE WATER SERVICE (LIFT STATION)	0 EA
10" DIP CL350 WATERMAIN	110 LF
12" DIP CL350 WATERMAIN	367 LF
12" GATE VALVE	1 EA
FIRE HYDRANT ASSEMBLY	2 EA
6" DR-18 PVC CL235 HYDRANT SERVICE	22 LF
6" GATE VALVE	2 EA

SEWER ITEMS	TOTAL
6"DR-18 PVC FORCEMAIN	352 LF
6"DR-14 PVC FORCEMAIN	62 LF
AIR RELEASE VALVE	1 EA
6"PLUG VALVE	0 EA
6"PVC SEWER SERVICE W/CLEANOUT	2 EA
8"PVC SDR26 GRAVITY SEWER (MH7-MH9)	412 LF
SEWER MASTER MANHOLE	0 EA
SEWER MANHOLE	3 EA
LIFT STATION	0 EA

ASSETS TO BE CONVEYED TO FGUA
STA.10+00 TO STA.17+50

NOTE:

1. PRIOR TO CONSTRUCTION CONTRACTOR TO VERIFY EXISTING MATERIALS AND LOCATION OF UTILITIES IN RIGHT OF WAY AND ON SITE. REPORT TO OWNER AND ENGINEER.

SCALE: 1" = 30'

DRY DETENTION #2 BOTTOM 2.00 AC

DRY DETENTION #1 BOTTOM 0.88 AC

20' ACCESS AND UTILITIES EASEMENT (I.N. 2007000089357)

12' L.C.E.C. EASEMENT (O.R. 2677, PG. 21)

MASS GRADE LOTS TO 22.50 FT-NAVD

CONTRACTOR TO MATCH GRADE AND ALIGNMENT OF EXISTING PAVEMENT FOR MILL AND OVERLAY

EXIST. GROUTED AND ABANDONED 4" FORCE MAIN CONTRACTOR TO CUT AND REMOVE AS NECESSARY WHEN CONFLICTING W/ NEW INFRASTRUCTURE

EXIST. PLUG VALVE (TYP.)

EXIST. OIL GAS LINE (TYP.)

STA. 12+64.73 55.26 [L] 10" GATE VALVE AND BLOWOFF

EXIST. FIBER OPTIC RISER (TYP.) (RISER TO BE ADJUSTED TO PROPOSED GRADE)

EXIST. FIBER OPTIC HAND HOLE (TYP.) (HANDHOLE TO BE ADJUSTED TO PROPOSED GRADE)

TIE-IN TO EXIST. 6" FORCE MAIN W/ 45° BEND

STA. 13+96.12 47.75 [L] ARV (TYP.) 126 LF 6" DR18 PVC FORCE MAIN

EXIST. FIBER OPTIC (TYP.)

72 LF 6" DR14 PVC FORCE MAIN

3' STRAIGHT CURB TRANSITION

341 LF 6" DR18 PVC FORCE MAIN

TYPE "F" CURB, SEE SHEET 29

MASS GRADE LOTS TO 22.50 FT-NAVD

10' P.U.E.

MATCH EXISTING ±22.71

MATCH EXISTING ±22.77

MATCH EXISTING ±23.09

MATCH EXISTING ±23.32

EXIST. ARV (TYP.)

EXIST. GATE VALVE (TYP.)

CUT-IN TO EXIST. 12" WM W/ 45° BEND

EXIST. 12" WATERMAIN (TYP.)

45° BEND

18"RCP

24"RCP

110 LF 10" DIP CL350 WATER MAIN

EXIST. 6" FORCE MAIN

8"SDR 26

6"SDR 26

CONCRETE FLUME, SEE DETAIL SHEET 19

STA. 14+98.93 49.73 [R] EX. FIRE HYDRANT ASSEMBLY

MH-07

MH-08

MH-09

ST-00

ST-02

ST-05

ST-07

ST-08

ST-09

ST-11

ST-12

ST-13

ST-14

ST-16

EXIST. OVERHEAD POWER LINE (TYP.)

229 LF 12" DIP CL350 WATER MAIN

STA. 12+47.58 45.86 [R] FIRE HYDRANT ASSEMBLY (TYP.) 12"x6" ANCHOR TEE W/ 6" GV

STA. 12+18.66 66.00 [R] 6"SEWER SERVICE W/CLEANOUT AT 1.04% MIN. (TYP.)

PROPOSED 6" SEWER SERVICE W/ CLEANOUT AT 1.04% MIN. (TYP.)

EXIST. WOODEN POWER POLE (TYP.)

138 LF 12" DIP CL350 WATER MAIN

STA. 15+36.26 51.61 [R] GATE VALVE

STA. 15+45.89 72.00 [R] 6"SEWER SERVICE W/CLEANOUT AT 1.04% MIN. (TYP.)

12"x6" ANCHOR TEE & 6"GV

10' L.C.E.C. EASEMENT (O.R. 2677, PG. 21)

STA. 17+11.44 45.76 [R] FIRE HYDRANT ASSEMBLY (TYP.)

EXCLUSIVE LEE DOT COUNTY EASEMENT

MASS GRADE LOTS TO 22.50 FT-NAVD

SWALE EL. = 21.00 FT-NAVD

MATCHLINE STA. 17+50 (SEE SHEET 25)

12"335 LF EXFILTRATION TRENCH WITH 335 LF OF 12" PERFORATED PIPE, 3 FT BY 3 FT TRENCH

1"=30' [H] 1"=3' [V]

SUNNILAND BOULEVARD

STA. 11+32.28 45° BEND OFFSET FROM CL: 36.0' [R]

STA. 11+22.29 45° BEND OFFSET FROM CL: 51.2' [R]

STA. 12+13.66 MH-08 OFFSET FROM CL: 14.0' [R] CONSTRUCT SANITARY MANHOLE RIM ELEV.= 24.8 V.F. = 13.8 ADJUST MANHOLE TO GRADE INV. IN (8")(S)= 11.00

STA. 12+47.58 FIRE HYDRANT ASSEMBLY OFFSET FROM CL: 45.9' [R]

STA. 12+64.74 10" TEE OFFSET FROM CL: 53.0' [R]

STA. 13+19.52 45° BEND OFFSET FROM CL: 53.0' [R]

STA. 13+37.87 45° BEND OFFSET FROM CL: 34.7' [R]

STA. 13+62.53 45° BEND OFFSET FROM CL: 20.2' [L]

STA. 13+83.36 45° BEND OFFSET FROM CL: 41.0' [L]

STA. 13+96.12 90° BEND OFFSET FROM CL: 47.8' [L]

STA. 14+11.38 45° BEND OFFSET FROM CL: 36.0' [R]

STA. 14+45.82 45° BEND OFFSET FROM CL: 54.2' [R]

STA. 14+98.93 FIRE HYDRANT ASSEMBLY OFFSET FROM CL: 49.7' [R]

STA. 15+28.66 45° BEND OFFSET FROM CL: 58.5' [R]

STA. 15+36.26 12" GATE VALVE OFFSET FROM CL: 51.6' [R]

STA. 15+47.44 45° BEND OFFSET FROM CL: 43.2' [R]

STA. 15+58.22 MH-07 OFFSET FROM CL: 0.00' [R] CONSTRUCT SANITARY MANHOLE RIM ELEV.= 24.7 V.F. = 15.2 ADJUST MANHOLE TO GRADE INV. IN (8")(S)= 9.62 INV. OUT (8")(S)= 9.52 INV. OUT (8")(D)= 9.63

STA. 17+11.44 FIRE HYDRANT ASSEMBLY OFFSET FROM CL: 45.8' [R]

STA. 17+97.88 45° BEND OFFSET FROM CL: 40.5' [R]

STA. 18+01.35 45° BEND OFFSET FROM CL: 54.0' [R]

PROPOSED GRADE

EXISTING GRADE

EXISTING 12" WATER MAIN (TYP)

EXISTING GATE VALVE (TYP)

EXIST. 6" FORCE MAIN (NOT IN CONFLICT W/ WATER MAIN)

229 LF 12" DIP CL350 WATER MAIN

EXISTING 6" PLUG VALVE

126 LF 6" DR18 PVC FORCEMAIN

72 LF 6" DR14 PVC FORCEMAIN

138 LF 12" DIP CL350 WATER MAIN

EXISTING 12" WATER MAIN (NOT IN CONFLICT W/ SEWER MAIN)

341 LF 6" DR18 PVC FORCEMAIN

18" RCP INV. = 17.00 (NOT IN CONFLICT W/ WATER MAIN)

EXISTING BEND

18" RCP INV. = 16.00 (NOT IN CONFLICT W/ WATER MAIN OR FORCE MAIN)

EXISTING 12" WATER MAIN (NOT IN CONFLICT W/ FORCE MAIN)

18" RCP INV. = 17.00 (NOT IN CONFLICT W/ WATER MAIN)

EXISTING FIBER OPTIC (NOT IN CONFLICT WITH SEWER MAIN OR FORCE MAIN)

CONSTRUCT 344 LF 8" SDR 26 @ -0.40% WITH PIPE BEDDING

4.0'

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SUNNILAND BOULEVARD PLAN AND PROFILE 01

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR: WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER BFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES, DO, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/06/2026	NL

811 Know what's below. Call before you dig.

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RACHEL J. TRACEY

P.E. LIC. #65322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-25	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

SHEET 24

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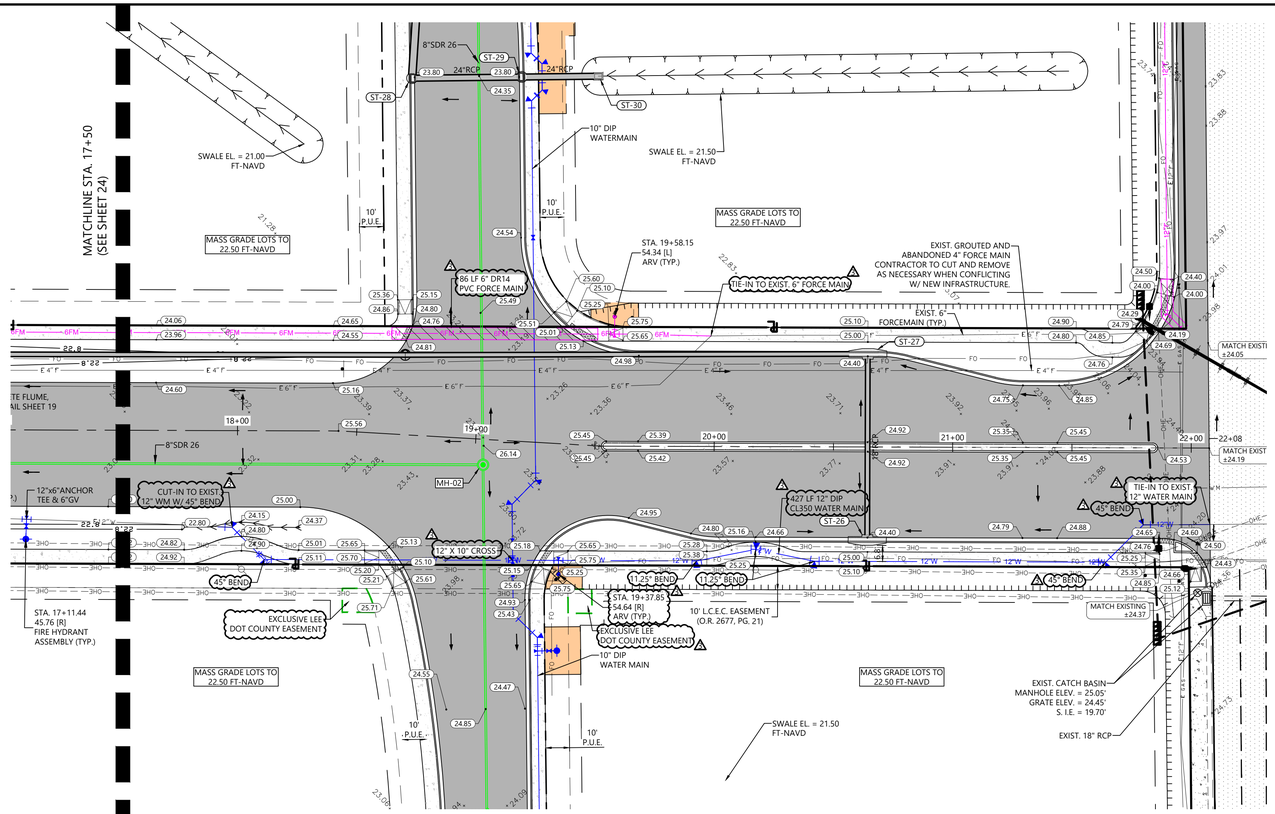
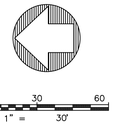




WATER ITEMS	TOTAL	SEWER ITEMS	TOTAL
2" PE WATER SERVICE (LIFT STATION)	0 EA	6"DR-18 PVC FORCEMAIN	177 LF
12" DIP CL350 WATERMAIN	427 LF	6"DR-14 PVC FORCEMAIN	86 LF
AIR RELEASE VALVE	1 EA	AIR RELEASE VALVE	1 EA
FIRE HYDRANT ASSEMBLY	0 EA	6"PLUG VALVE	0 EA
6" DR-18 PVC CL235 HYDRANT SERVICE	0 LF	6"PVC SEWER SERVICE W/CLEANOUT	0 EA
6" GATE VALVE	0 EA	8"PVC SDR26 GRAVITY SEWER (MH7-MH2)	344 LF
10" DIP C250	0 LF	SEWER MASTER MANHOLE	0 EA
		SEWER MANHOLE	1 EA
		LIFT STATION	0 EA

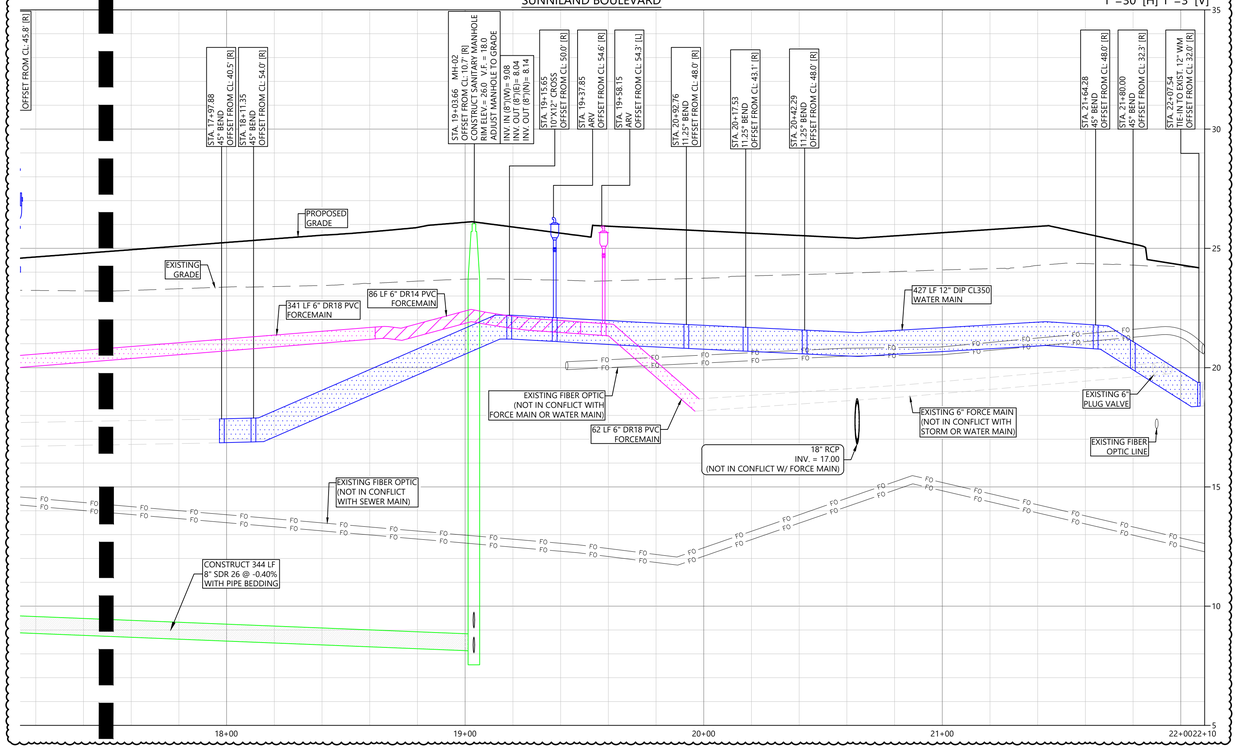
ASSETS TO BE CONVEYED TO FGUA
STA.17+50 TO STA.22+00

NOTE:

1. PRIOR TO CONSTRUCTION CONTRACTOR TO VERIFY EXISTING MATERIALS AND LOCATION OF UTILITIES IN RIGHT OF WAY AND ON SITE. REPORT TO OWNER AND ENGINEER.

SUNNILAND BOULEVARD

1"=30' [H] 1"=3' [V]



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SUNNILAND BOULEVARD PLAN AND PROFILE 02

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT COMMENTS; DU, & FGUA CALCULATIONS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 2/20/2026	NL

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RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-25	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

SHEET 25

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NOTE:

1. PRIOR TO CONSTRUCTION CONTRACTOR TO VERIFY EXISTING MATERIALS AND LOCATION OF UTILITIES IN RIGHT OF WAY AND ON SITE. REPORT TO OWNER AND ENGINEER.

WATER ITEMS	TOTAL	SEWER ITEMS	TOTAL
2" PE WATER SERVICE (LIFT STATION)	0 EA	6"DR-18 PVC FORCEMAIN	0 LF
10" DIP CL350 WATERMAIN	726 LF	6"DR-14 PVC FORCEMAIN	0 LF
10" GATE VALVE	3 EA	6"GATE VALVE	0 EA
FIRE HYDRANT ASSEMBLY	3 EA	6"PLUG VALVE	0 EA
6" DR-18 PVC CL235 HYDRANT SERVICE	36 LF	6"PVC SEWER SERVICE W/CLEANOUT	3 EA
6" GATE VALVE	4 EA	8"PVC SDR26 GRAVITY SEWER (MH1-MH3)	628 LF
10"-6" REDUCER	1 EA	SEWER MASTER MANHOLE	0 EA
4" GATE VALVE	3 EA	SEWER MANHOLE	1 EA
2" GATE VALVE	3 EA	LIFT STATION	0 EA
4" FIRE SERVICE LATERAL	45 LF		
2" PE POTABLE WATER SERVICE LATERAL	45 LF		

ASSETS TO BE CONVEYED TO FGUA
STA.10+00 TO STA.17+50

SCALE: 1" = 30' (0, 30, 60)

5TH ST SW

SUNNILAND BLVD

MASS GRADE LOTS TO 22.50 FT-NAVD

MATCH EXISTING ±22.73

MATCH EXISTING ±22.76

6"X10" REDUCER

STA. 10+12.28
30.19 [R]
FIRE HYDRANT ASSEMBLY (TYP.)

11.5' FGUA U.E.

10' P.U.E.

50' R.O.W.

6"SDR 26

STA. 11+64.82
35.00 [R]
6" SEWER SERVICE W/CLEANOUT AT 1.04% MIN. (TYP.)

1,242 LF OF 10" DIP CL350 WATER MAIN

FOLLOW LCU RESTRAINED JOINT SPECIFICATIONS. (TYP.)

STA. 12+95.34
35.00 [R]
6" SEWER SERVICE W/CLEANOUT AT 1.04% MIN. (TYP.)

EXCLUSIVE LEE COUNTY DOT EASEMENT

10"X6" ANCHOR TEE & 6" GATE VALVE (TYP.)

STA. 13+65.96
30.92 [R]
FIRE HYDRANT ASSEMBLY (TYP.)

EXCLUSIVE LEE COUNTY DOT EASEMENT
10" GATE VALVE

12" 11.25° BEND

10"X12" TEE

8"SDR 26

SWALE EL. = 21.50 FT-NAVD

SWALE EL. = 21.00 FT-NAVD

10" GATE VALVE

FOLLOW LCU RESTRAINED JOINT SPECIFICATIONS. (TYP.)

11.25° BEND (TYP.)

15.5' FGUA U.E.

STA. 16+42.34
34.94 [R]
6" SEWER SERVICE W/CLEANOUT AT 1.04% MIN. (TYP.)

STA. 16+33.62
30.46 [R]
FIRE HYDRANT ASSEMBLY (TYP.)

1,242 LF OF 10" DIP CL350 WATER MAIN

MATCHLINE STA. 17+50
(SEE SHEET 27)

SEE SHT 29

MH-01 MH-02 MH-03 MH-04

ST-17 ST-18 ST-19 ST-20 ST-21 ST-22 ST-23 ST-24 ST-26 ST-27 ST-28 ST-29 ST-30 ST-31 ST-32 ST-33

24" RCP 30" RCP 36"RCP 18"RCP

5TH ST W

1"=30' [H] 1"=3' [V]

PROPOSED GRADE

EXISTING GRADE

36" MIN

CONSTRUCT 20 LF 6" DR-18 PVC CL235 WATER MAIN

30" RCP @ STORM SEWER T.O.P. = 18.79 (18" MIN CLR.)

24" RCP @ STORM SEWER T.O.P. = 18.50 (18" MIN CLR.)

CONSTRUCT 291 LF 8" SDR 26 @ 0.40% WITH PIPE BEDDING

CONSTRUCT 1,242 LF 10" DIP CL350 WATER MAIN

CONSTRUCT 337 LF 8" SDR 26 @ 0.40% WITH PIPE BEDDING

24" RCP @ STORM SEWER T.O.P. = 18.50 (18" MIN CLR.)

STA. 10+24.04 FIRE HYDRANT ASSEMBLY OFFSET FROM CL: 30.0' [R]

STA. 10+24.09 6"X10" REDUCER OFFSET FROM CL: 22.0' [R]

STA. 10+68.51 4" FIRE SERVICE OFFSET FROM CL: 22.0' [R]

STA. 10+76.51 2" WATER SERVICE OFFSET FROM CL: 22.0' [R]

STA. 10+79.82 45° BEND OFFSET FROM CL: 22.0' [R]

STA. 10+86.32 45° BEND OFFSET FROM CL: 26.5' [R]

STA. 10+95.32 45° BEND OFFSET FROM CL: 26.5' [R]

STA. 10+99.82 45° BEND OFFSET FROM CL: 22.0' [R]

STA. 11+53.36 MH-01 OFFSET FROM CL: 0.0' [] CONSTRUCT SANITARY MANHOLE RIM ELEV.= 23.0 V.F. = 14.7 ADJUST MANHOLE TO GRADE INV. OUT (8"IO)= 10.25

STA. 12+55.84 OFFSET FROM CL: 22.0' [R]

STA. 12+63.84 4" FIRE SERVICE OFFSET FROM CL: 22.0' [R]

STA. 12+66.84 45° BEND OFFSET FROM CL: 22.0' [R]

STA. 12+73.34 45° BEND OFFSET FROM CL: 26.5' [R]

STA. 12+83.34 45° BEND OFFSET FROM CL: 26.5' [R]

STA. 12+86.84 45° BEND OFFSET FROM CL: 22.0' [R]

STA. 13+66.03 FIRE HYDRANT ASSEMBLY OFFSET FROM CL: 30.0' [R]

STA. 13+71.65 45° BEND OFFSET FROM CL: 22.0' [R]

STA. 13+76.65 45° BEND OFFSET FROM CL: 12.0' [R]

STA. 14+04.13 10"X12" CROSS OFFSET FROM CL: 12.0' [R]

STA. 14+12.13 10" GATE VALVE OFFSET FROM CL: 12.0' [R]

STA. 14+27.60 45° BEND OFFSET FROM CL: 12.0' [R]

STA. 14+44.31 MH-02 OFFSET FROM CL: 0.0' [] CONSTRUCT SANITARY MANHOLE RIM ELEV.= 31.5 ADJUST MANHOLE TO GRADE INV. IN (8"IW)= 9.08 INV. OUT (8"IE)= 8.14

STA. 15+39.34 10" GATE VALVE OFFSET FROM CL: 22.0' [R]

STA. 15+96.70 45° BEND OFFSET FROM CL: 22.0' [R]

STA. 16+01.20 45° BEND OFFSET FROM CL: 26.5' [R]

STA. 16+12.20 45° BEND OFFSET FROM CL: 26.5' [R]

STA. 16+33.77 FIRE HYDRANT ASSEMBLY OFFSET FROM CL: 30.5' [R]

STA. 16+80.84 4" FIRE SERVICE OFFSET FROM CL: 17.4' [R]

STA. 16+84.96 1.25° BEND OFFSET FROM CL: 17.0' [R]

STA. 16+88.84 4" FIRE SERVICE OFFSET FROM CL: 17.0' [R]

STA. 17+17.92 4" FIRE SERVICE OFFSET FROM CL: 17.0' [R]

STA. 17+18.31 MH-03 OFFSET FROM CL: 0.0' [] CONSTRUCT SANITARY MANHOLE RIM ELEV.= 24.3 V.F. = 17.7 ADJUST MANHOLE TO GRADE INV. IN (8"IE)= 6.59 INV. OUT (8"IE)= 6.59

STA. 17+28.92 2" WATER SERVICE OFFSET FROM CL: 17.0' [R]

STA. 17+34.30 45° BEND OFFSET FROM CL: 17.0' [R]

INV. OUT (8"IW)= 8.84 INV. IN (8"IN)= 8.84

1.6' 2.3' 2.4' 2.2'

35 30 25 20 15 10 5 2

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00

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5TH ST W PLAN AND PROFILE 01

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER BFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES, DO, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/06/2026	NL

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RACHEL J. TRACEY

P.E. LIC. #65322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 26

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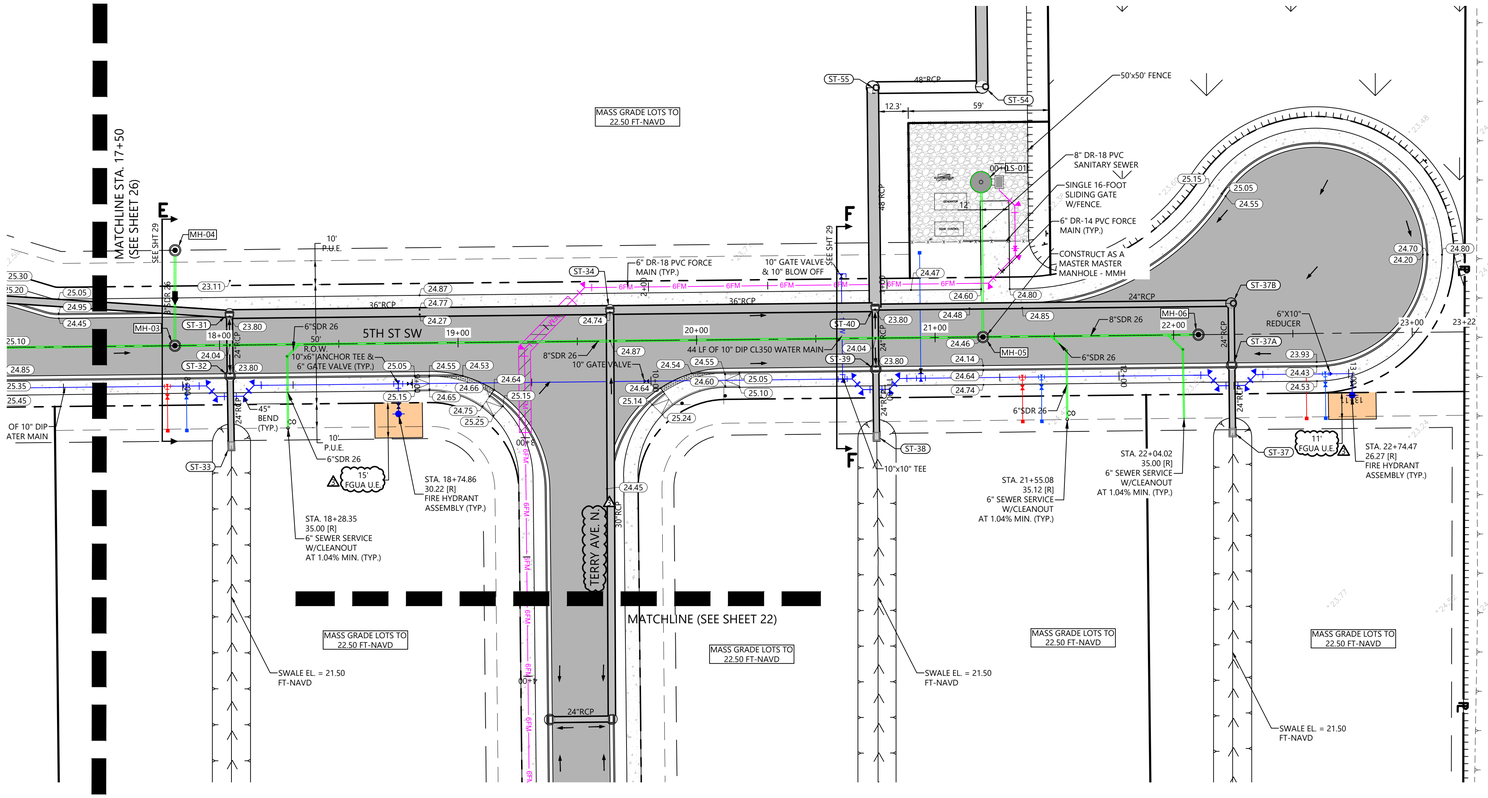
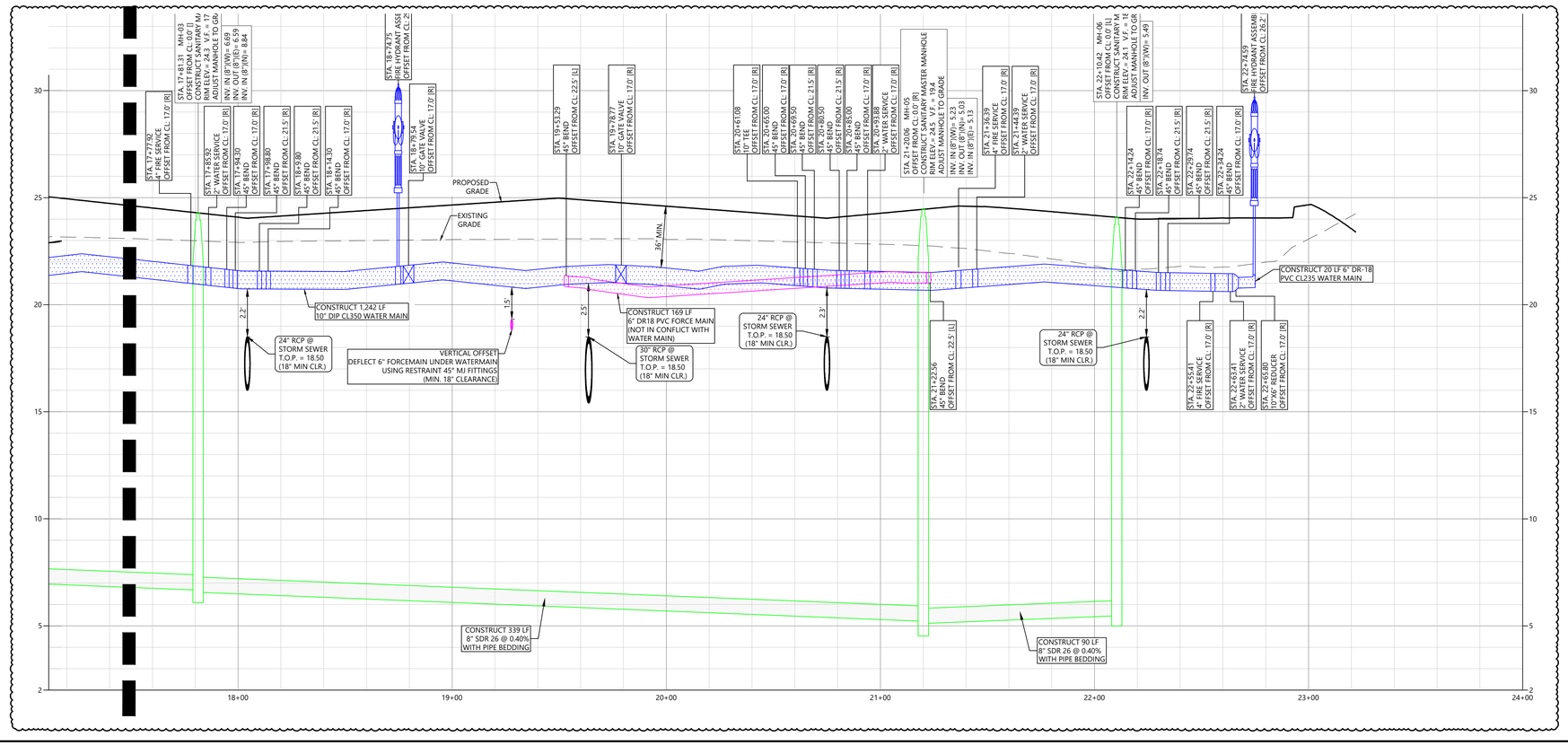


WATER ITEMS	TOTAL	SEWER ITEMS	TOTAL
10" DIP CL350 WATERMAIN	516 LF	6"DR-18 PVC FORCEMAIN	0 LF
10" GATE VALVE	2 EA	6"DR-14 PVC FORCEMAIN	0 LF
FIRE HYDRANT ASSEMBLY	2 EA	6"PLUG VALVE	0 EA
6" DR-18 PVC CL235 HYDRANT SERVICE	35 LF	6"PVC SEWER SERVICE W/CLEANOUT	3 EA
6" GATE VALVE	2 EA	8"PVC SDR26 GRAVITY SEWER (MH3-MH6)	469 LF
10"-6" REDUCER	1 EA	SEWER MASTER MANHOLE	0 EA
4" GATE VALVE	3 EA	SEWER MANHOLE	3 EA
2" GATE VALVE	4 EA	LIFT STATION	0 EA
4" FIRE SERVICE LATERAL	54 LF		
2" PE POTABLE WATER SERVICE LATERAL	54 LF		
2" PE WATER SERVICE (LIFT STATION)	87 LF		

ASSETS TO BE CONVEYED TO FGUA
STA.17+50 TO STA.23+22

SCALE: 1" = 30'

NOTE:
1. PRIOR TO CONSTRUCTION CONTRACTOR TO VERIFY EXISTING MATERIALS AND LOCATION OF UTILITIES IN RIGHT OF WAY AND ON SITE. REPORT TO OWNER AND ENGINEER.



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FORT MYERS, FL 33966
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5TH ST W PLAN AND PROFILE 02

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES, DO, & FGUA	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/02/2026	NL

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RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-25	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

SHEET 27

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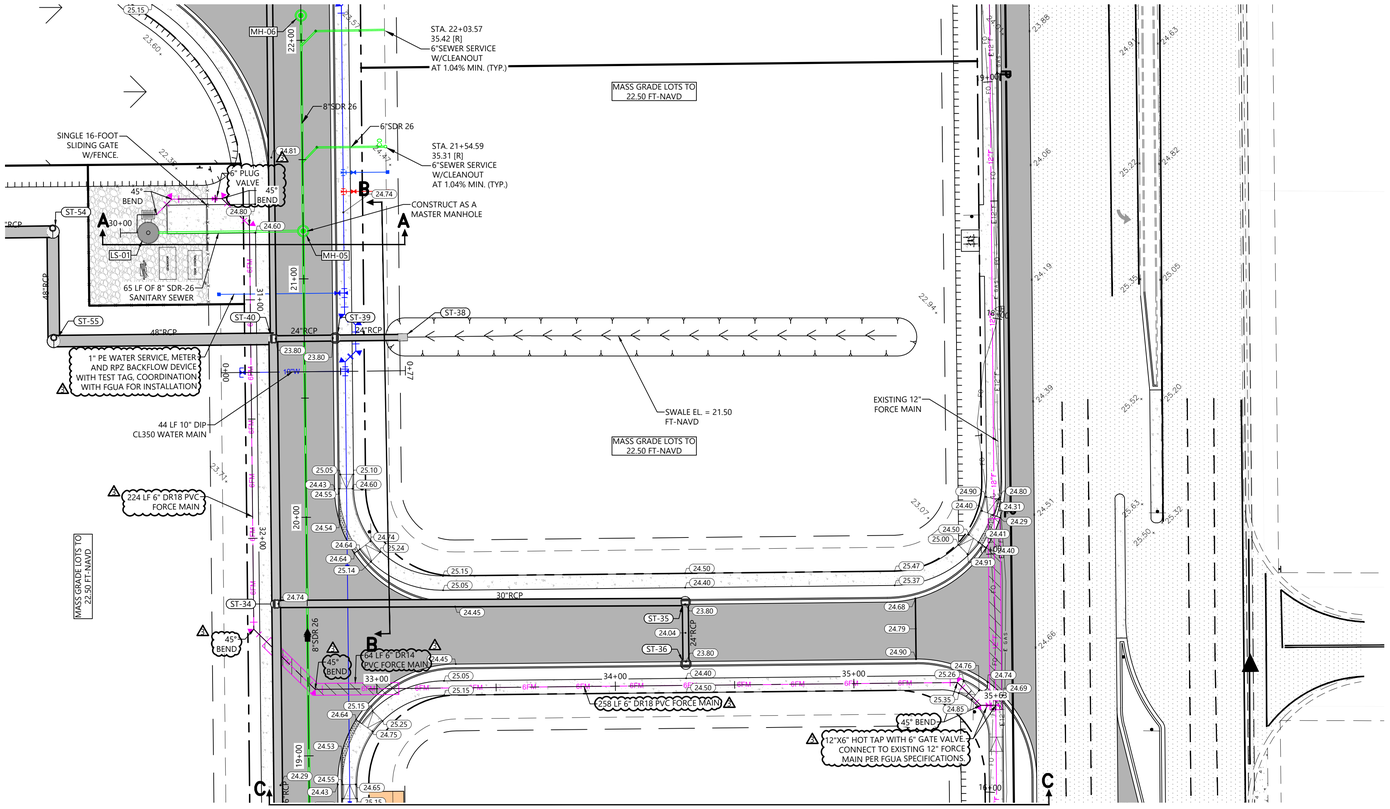

WATER ITEMS	TOTAL	SEWER ITEMS	TOTAL
2" PE WATER SERVICE (LIFT STATION)	0 EA	6"DR-18 PVC FORCEMAIN	482 LF
10" DIP CL350 WATERMAIN	44 LF	6"DR-14 PVC FORCEMAIN	64 LF
10" GATE VALVE	0 EA	AIR RELEASE VALVE	0 EA
FIRE HYDRANT ASSEMBLY	0 EA	6"PLUG VALVE	2 EA
6" DR-18 PVC CL235 HYDRANT SERVICE	0 LF	6"PVC SEWER SERVICE W/CLEANOUT	0 EA
6" GATE VALVE	0 EA	8"PVC SDR26 GRAVITY SEWER (LS1-MH5)	65 LF
		SEWER MASTER MANHOLE	1 EA
		SEWER MANHOLE	1 EA
		LIFT STATION	1 EA

ASSETS TO BE CONVEYED TO FGUA
STA.30+00 TO STA.35+63

NOTE:

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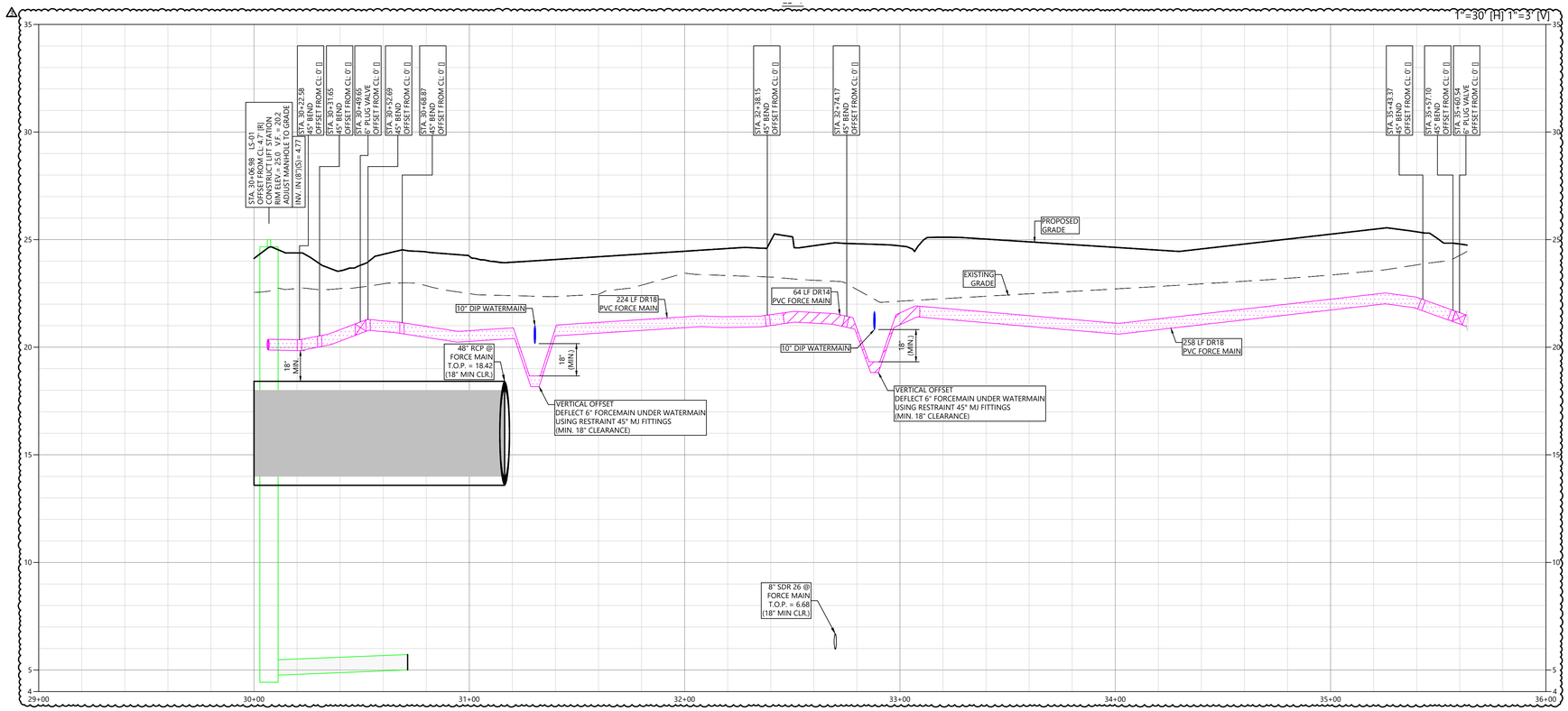

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FORT MYERS, FL 33966
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LS-01 SEWER FORCEMAIN - PLAN AND PROFILE 01

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:

WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES TO 8 FOOT WIDE	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

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RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 28

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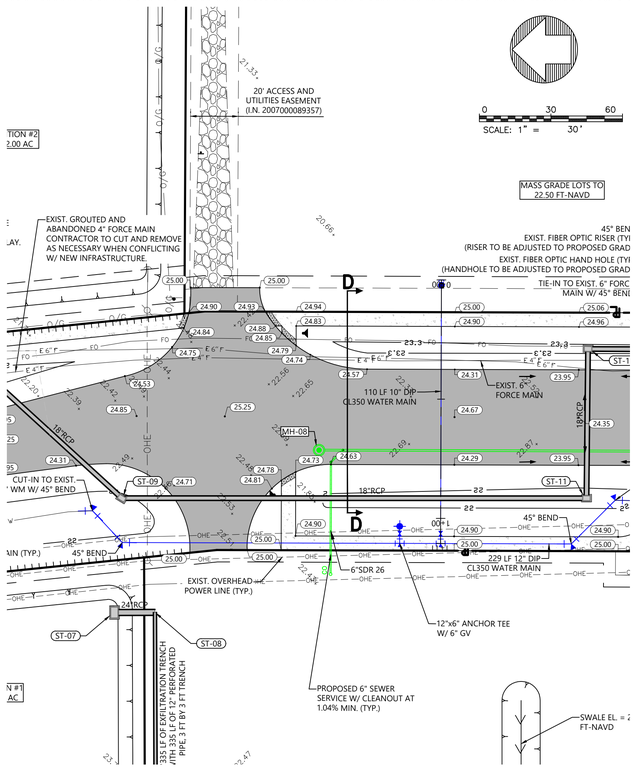

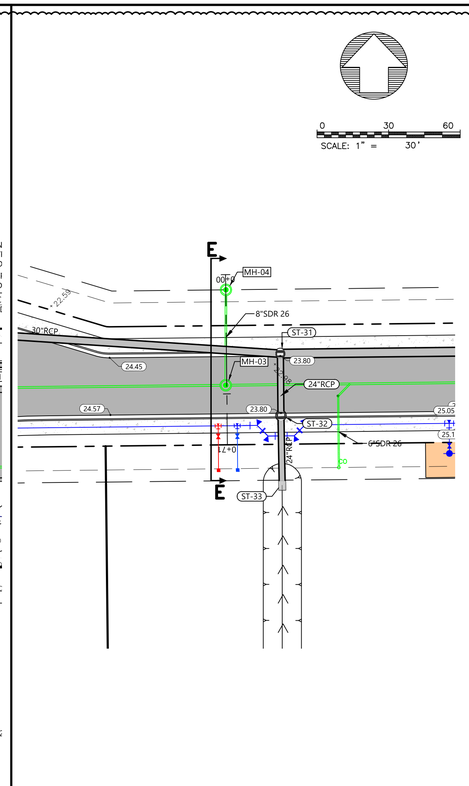

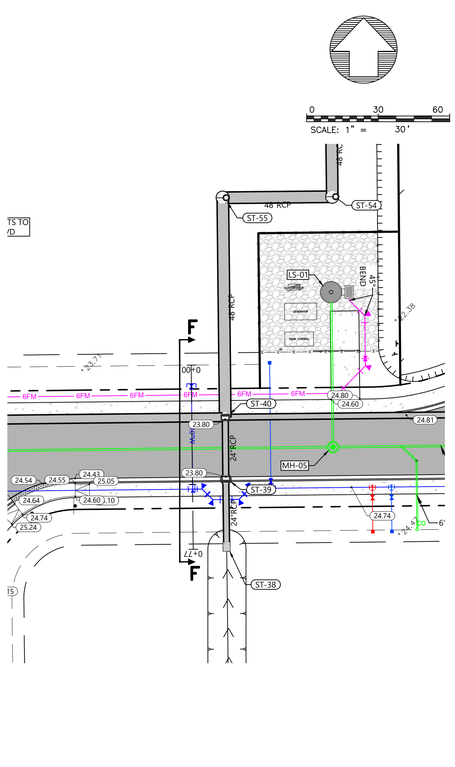

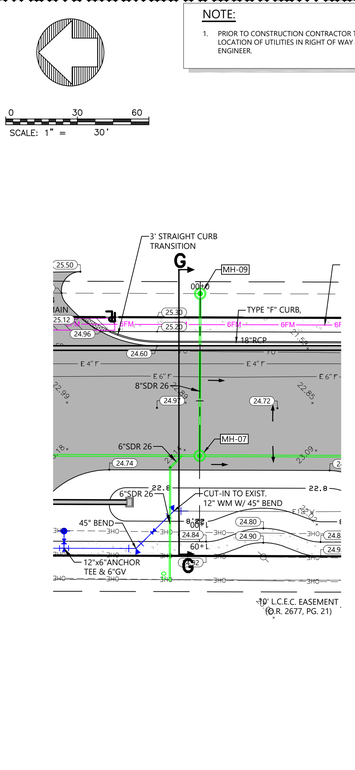

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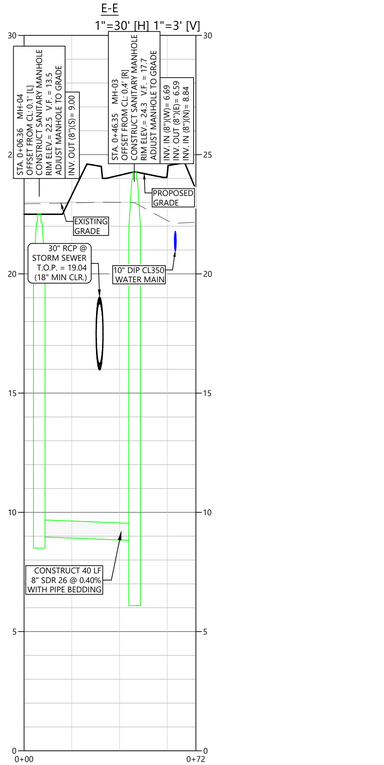
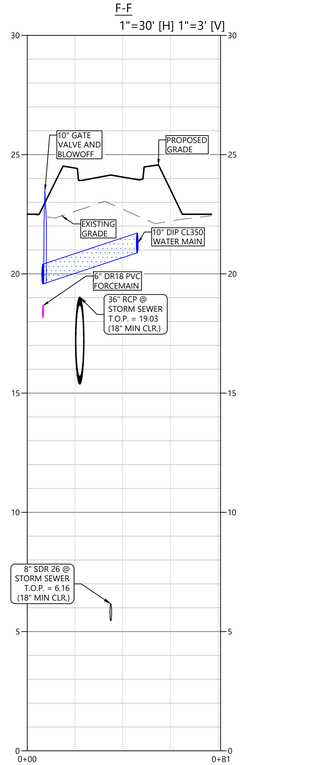
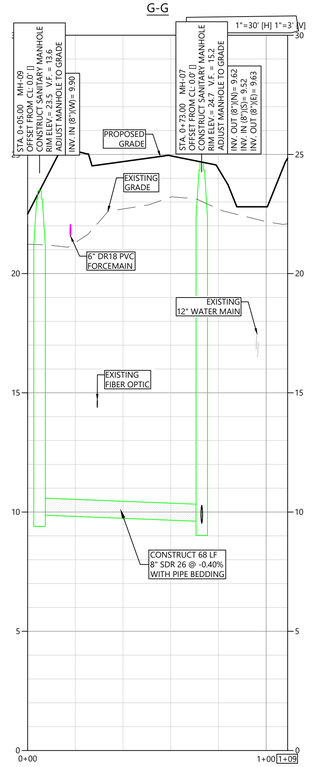
SECTION D-D



SECTION E-E



SECTION F-F



SECTION G-G

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

MISC PLANS AND PROFILES 01

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER BFMWD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES, DO, & TGUI COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/06/2026	NL

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ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE TO THE ENGINEER. THERE IS NO GUARANTEE ALL FACILITIES ARE SHOWN OR THAT THE LOCATION, IF SHOWN, OF EACH SUCH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION.

RACHEL J. TRACEY

P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 29

S:\Land\Work\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\SUNNILAND ROLE FUNDS PLAN AND PROFILE.dwg, 9/9/2025 2:58:17 PM, KEVIN.GONZALEZ, ATWELL, LLC

WATER ITEMS	TOTAL	SEWER ITEMS	TOTAL
10" DIP CL350 WATERMAIN	0 LF	6"DR-18 PVC FORCEMAIN	304 LF
10" GATE VALVE	0 EA	6"DR-14 PVC FORCEMAIN	104 LF
FIRE HYDRANT ASSEMBLY	0 EA	6"PLUG VALVE	0 EA
6" DR-18 PVC CL235 HYDRANT SERVICE	0 LF	6"PVC SEWER SERVICE W/CLEANOUT	0 EA
6" GATE VALVE	0 EA	8"PVC SDR26 GRAVITY SEWER (MH3-MH6)	0 LF
10"-6" REDUCER	0 EA	SEWER MASTER MANHOLE	0 EA
4" GATE VALVE	0 EA	SEWER MANHOLE	0 EA
2" GATE VALVE	0 EA	LIFT STATION	0 EA
1" GATE VALVE	0 EA		
4" FIRE SERVICE LATERAL	0 LF		
2" PE POTABLE WATER SERVICE LATERAL	0 LF		
1" PE WATER SERVICE (LIFT STATION)	0 LF		

ASSETS TO BE CONVEYED TO FGUA
STA.10+00 TO STA.17+89

LOT 6
1.51 AC

LOT 7
0.94 AC

LOT 8
2.04 AC

(100' WIDE PUBLIC R.O.W.)

TERRY AVE. N.
30"RCP - 171'
24"RCP - 26'
50' R.O.W.
10' P.U.E.

SWALE

ST-27
TYPE 6 INLET
RIM EL.= 24.40
I.E. (18" W)= 17.00
I.E. (18" N)= 17.00

EXIST. 4" FORCEMAIN (TYP.)

ST-43
TYPE 6 INLET
RIM EL.= 23.42
I.E. (24" S)= 18.53

ST-36
TYPE 9 INLET
RIM EL.= 23.80
I.E. (24" E)= 16.50

ST-35
TYPE 9 INLET
RIM EL.= 23.80
I.E. (24" W)= 16.50
I.E. (30" N)= 15.75

401 LF 12" DR18 PVC FORCE MAIN

12" X 6" TEE WITH 6" GATE VALVE

80 LF 12" DR14 PVC FORCE MAIN

264 LF 12" DR18 PVC FORCE MAIN

24 LF 12" DR14 PVC FORCE MAIN

22.5° BEND

45° BEND

EXIST. FIBER OPTIC THROUGHOUT THE PLAN SET IS APPROXIMATE. CONTRACTOR TO CONFIRM THE LOCATION IN THE FIELD. CONTRACTOR TO COORDINATE ANY DISCREPANCIES WITH THE DEVELOPER AND ENGINEER.

EXIST. GAS MAIN THROUGHOUT THE PLAN SET IS APPROXIMATE. CONTRACTOR TO CONFIRM THE LOCATION IN THE FIELD. CONTRACTOR TO COORDINATE ANY DISCREPANCIES WITH THE DEVELOPER AND ENGINEER.

ST-44
TYPE 6 INLET
RIM EL.= 23.41
I.E. (24" E)= 16.15

MATCH EXISTING

EXIST. ABANDONED WATERMAIN

EXIST. POWER POLE AND GUY WIRES
(2) EXIST. YELLOW OM1-3 SIGNS AND ONE WAY SIGN

EXIST. CONC. PAVEMENT

EDGE OF EXIST. DRIVE

LEE BOULEVARD / COUNTY ROAD 884
(106' WIDE PUBLIC R.O.W.)

EXIST. 42" RCP

APPROX. OFF PARCEL LINES LEEPA (TYP)

SCALE: 1" = 0 30 60 30'

LEE BOULEVARD FORCE MAIN

1"=30' [H] 1"=3' [V]

STA. 10+13.88
TIE-IN TO EXIST. 12" FORCE MAIN W/ 45° BEND
OFFSET FROM CL 0.00' ||

STA. 10+28.32
45° BEND
OFFSET FROM CL 0.00' ||

STA. 11+50.76
22.5° BEND
OFFSET FROM CL 0.00' ||

STA. 11+60.93
22.5° BEND
OFFSET FROM CL 0.00' ||

STA. 11+73.40
22.5° BEND
OFFSET FROM CL 0.00' ||

STA. 11+84.71
22.5° BEND
OFFSET FROM CL 00.0' ||

STA. 14+40.55
12"x6" TEE W/ PLUG VALVE
OFFSET FROM CL 0.00' ||

STA. 17+79.70
45° BEND
OFFSET FROM CL 0.00' ||

STA. 17+82.61
TIE-IN TO EXIST. 12" FORCE MAIN W/ 45° BEND
OFFSET FROM CL 0.00' ||

CONSTRUCT 24 LF
12" DR14 PVC FORCE MAIN

CONSTRUCT 401 LF
12" DR18 PVC FORCE MAIN

CONSTRUCT 80 LF
12" DR14 PVC FORCE MAIN

CONSTRUCT 264 LF
12" DR18 PVC FORCE MAIN

EXIST. FIBER OPTIC

EXIST. GAS MAIN

35 30 25 20 15 10 5

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00

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FORT MYERS, FL 33966
(239) 939-5490

LEE BOULEVARD PLAN AND PROFILE

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT COMMENTS: DD' & F'/DUK COMMENTS	NL
3	03/03/2026	REVISED PER CLIENT COMMENTS DATED 02/09/2026	NL

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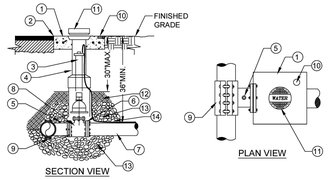
RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 30

S:\Jobs\8844\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\LEE BOULEVARD PLAN AND PROFILE.dwg, 3/3/2026 3:37:49 PM, KEVIN GONZALEZ, ATWELL, LLC



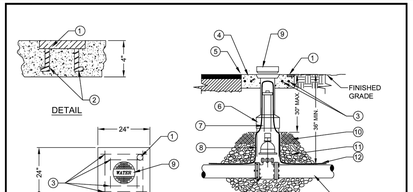
SECTION VIEW

PLAN VIEW

1. CONCRETE PAD - 24"X24"X4" THK. (SEE VALVE INSTALLATION DETAIL G-02)
2. SET TOP OF BOX FLUSH WITH FINISHED GRADE
3. EXTENSION STEM IF TOP OF OPERATING NUT IS MORE THAN 30" BELOW FINISH GRADE
4. VALVE BOX (SEE VALVE INSTALLATION DETAIL G-02)
5. OUTLET FOR TESTING
6. MJ RESTRAINED
7. MAIN SIZE VARIES
8. TAPPING VALVE (SEE VALVE INSTALLATION DETAIL G-02)
9. LCU APPROVED ALL STAINLESS STEEL PRESSURE RATED TAPPING SLEEVE. FOR SIZE ON SIZE TAPS A FLANGED TAPPING SLEEVE IS REQUIRED. SPRING LOADED TAPPING SLEEVE IS REQUIRED WHEN CONNECTING TO HDPE (SEE APPROVED MATERIAL LIST)
10. BRASS PLATE (SEE VALVE INSTALLATION DETAIL G-02)
11. CAST IRON DROP COVER MARKED "WATER", "SEWER", "REUSE", OR "FIRE"
12. COMPACTED SUITABLE EARTH BACKFILL
13. ¾" GRANULAR MATERIAL #57 STONE
14. 10 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE (SEE LCU STANDARD DETAIL)

TITLE: TAPPING SLEEVE & VALVE
NOT TO SCALE — REVISION: 4/23/25 — SHEET NO.: G-01.dwg

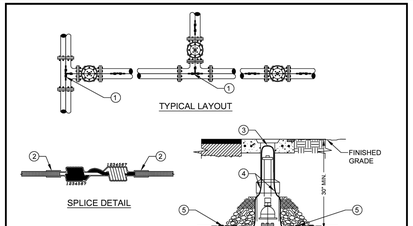
April 23, 2025 8:51 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\G-01.dwg



1. BRASS PLATE: SIZE OF VALVE, VALVE TYPE NO. OF TURNS & DIRECTION TO OPEN VALVE MFG & YEAR INSTALL SYSTEM "WATER" OR "SEWER" OR "REUSE" OR "FIRE"
2. ANCHOR
3. EIGHT (8) #4 BARS OVERLAP EACH CORNER BY 2"
4. 24" SQ X 4" THK. CONC. PAD SURROUNDING BOX, MIN. 3000 P.S.I. POURED IN PLACE
5. SET TOP OF BOX FLUSH WITH FINISHED GRADE
6. HEAVY DUTY TRAFFIC BEARING CAST IRON VALVE BOX, ADJUSTABLE SCREW TYPE, 5 ¼" DIAMETER SHAFT THAT IS LCU APPROVED
7. EXTENSION STEM WITH 2" OPERATING NUT AS REQUIRED, IF NUT IS MORE THAN 30" BELOW FINISH GRADE.
8. RISER NOT TO BEAR ON VALVE OR PIPE (RISER PIPE MATERIAL MUST BE PVC)
9. CAST IRON DROP COVER MARKED "WATER" OR "SEWER" OR "REUSE" OR "FIRE"
10. COMPACTED SUITABLE EARTH BACKFILL
11. ¾" GRANULAR MATERIAL #57 STONE
12. 10 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE (SEE LCU DETAIL G-03)

TITLE: GATE VALVE
NOT TO SCALE — REVISION: 4/22/25 — SHEET NO.: G-02.dwg

April 22, 2025 12:42 PM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\G-02.dwg



VALVE DETAIL

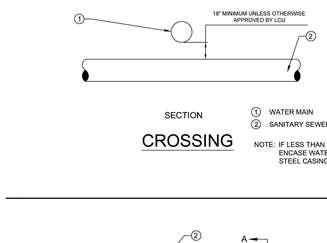
NOTES:

1. WIRE SHALL BE CONTINUOUS BETWEEN VALVE BOXES. THE PVC RISER PIPE SHALL BE NOTCHED AND THE WIRE ATTACHED TO THE RISER PIPE TO ALLOW FOR THE WIRE TO FIT INSIDE THE CAST IRON VALVE BOX WITHOUT SHEARING THE WIRE.
2. LOCATING WIRE SHALL BE LAID ON TOP OF THE MAIN, AND SHALL BE TAPED TO IT AT 10' INTERVALS AND TAPED AT ALL FITTINGS. TAPE SHALL BE 10 MIL POLYETHYLENE.
3. CONTRACTOR SHALL CONDUCT A CONTINUITY TEST ON ALL LOCATING WIRE SPLICES. PRIOR TO SCHEDULING THE OFFICIAL FINAL INSPECTION WITH LCU.
4. ALL SPLICES SHALL UTILIZE A DIRECT BURY WATERPROOF SPLICE KIT. (SEE APPROVED MATERIAL LIST)

1. SPLICE RUN TOGETHER, KEEP CLEAR OF FITTING, TYPICAL
2. COVER SPLICE WITH 2 WRAPS OF 10 MIL. POLYETHYLENE TAPE
3. 6" LOOP OF BARE WIRE, 9" MAX DEPTH TO TOP OF BARE WIRE
4. 10 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE
5. SPLICE (SEE DETAIL THIS SHEET)

TITLE: LOCATING WIRE FOR PRESSURE MAINS
NOT TO SCALE — REVISION: 1/26/24 — SHEET NO.: G-03.dwg

January 26, 2024 1:11 PM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\G-03.dwg



SECTION

CROSSING

1. WATER MAIN
2. SANITARY SEWER MAIN

NOTE: IF LESS THAN 18" CLEARANCE ENCASE WATER MAIN IN STEEL CASING

PLAN

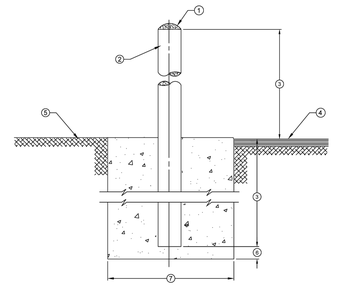
PARALLEL

1. WATER MAIN
2. SANITARY SEWER MAIN

NOTE: IF LESS THAN 10' CLEARANCE ENCASE WATER MAIN IN STEEL CASING

TITLE: WATER AND SEWER CROSSING
NOT TO SCALE — REVISION: 6/27/24 — SHEET NO.: G-08.dwg

June 27, 2024 8:30 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\G-08.dwg



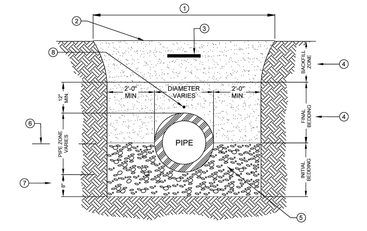
1. FILL AND TOP PIPE WITH CONCRETE
2. 6" DIA. X 6'-0" LONG PRESSURE CLASS 350 D.I.P.
3. 3'-0" MINIMUM
4. PAVEMENT
5. FINISHED GRADE
6. 3"
7. 18" DIA. CONCRETE ENCASEMENT 3000 P.S.I.

NOTE:

1. PAINT BOLLARD TO LCU STANDARDS - SAFETY YELLOW

TITLE: BOLLARD POST DETAIL
NOT TO SCALE — REVISION: 4/4/24 — SHEET NO.: G-12.dwg

April 4, 2024 7:59 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\G-12.dwg



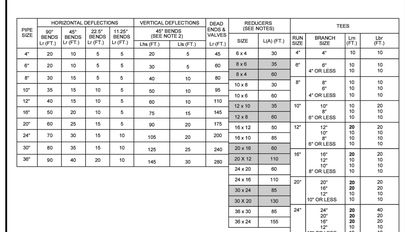
1. 45° MJ D.I.P. BEND
2. TEMPORARY FLUSHING PIPE
3. END OF WATER MAIN
4. 24" MIN.

NOTES:

1. FLUSHING DETAIL TO BE USED ON WATER LINES 8" DIAMETER OR GREATER.
2. FLUSHING PIPE SHALL BE THE SAME DIAMETER AS WATER MAIN.
3. CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE FOR FLUSHED WATER.
4. PROVIDE M.J. CAP IF ASSEMBLY IS LEFT IN PLACE UNATTENDED.
5. 10 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE (SEE LCU STANDARD DETAIL)

TITLE: WATER MAIN FLUSHING DETAIL
NOT TO SCALE — REVISION: 2/27/24 — SHEET NO.: W-02.dwg

February 27, 2024 9:50 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\W-02.dwg



1. FIRE HYDRANT: STANDARD A.W.W.A. SAFETY YELLOW (SEE APPROVED MATERIAL LIST)
2. PUMPER CONNECTION FACING AS PER FIRE DISTRICT RECOMMENDATION
3. 18" MIN. - 24" MAX.
4. FINISHED GRADE
5. 6" MIN. CLEARANCE
6. COMPACTED FILL
7. 24" X 24" X 4" CONCRETE BREAK AWAY CONCRETE PAD, 3000 P.S.I.
8. PIPE TO BE D.I.P., PRESSURE CLASS 350 OR GRADE LOK CONNECTOR PIPE WITH SPLIT GLAND MECHANICAL RESTRAINED JOINT & FITTINGS
9. RESTRAINED JOINTS, FROM HYDRANT TO WM
10. VARIABLE DISTANCE, IF GREATER THAN 100' AN ADDITIONAL VALVE SHALL BE INSTALLED AT HYDRANT BASE

TITLE: FIRE HYDRANT ASSEMBLY
NOT TO SCALE — REVISION: 9/10/24 — SHEET NO.: W-12.dwg

September 10, 2024 2:11 PM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\W-12.dwg

1. F.H. TO BE LOCATED 2' MINIMUM FROM EDGE OF SIDEWALK
2. PROPERTY LINE RIGHT-OF-WAY OR LIMIT OF EASEMENT
3. BETWEEN 5'-0" MIN. AND 12'-0" MAX.

NOTES:

1. OBSTRUCTIONS SUCH AS UTILITY POLES, STREET SIGNS, IRRIGATION BOXES, FENCES, ETC. SHALL NOT BE PLACED BETWEEN CURB AND HYDRANT.
2. SOME LOCATIONS APPLY AT EITHER END OF CURB RETURNS.
3. DIMENSIONS SHOWN ON CONSTRUCTION DRAWINGS SUPERCEDE LOCATIONS SHOWN HERE.

TITLE: FIRE HYDRANT LOCATIONS & CLEARANCE
NOT TO SCALE — REVISION: 9/10/24 — SHEET NO.: W-13.dwg

September 10, 2024 1:59 PM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\W-13.dwg

NOTE:

1. 3' CLEARANCE ALL AROUND CONCRETE COLLAR

TITLE: BACTERIA SAMPLE VALVE
NOT TO SCALE — REVISION: 3/20/24 — SHEET NO.: W-14.dwg

March 20, 2024 1:29 PM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\W-14.dwg

1. EXCAVATED TRENCH
2. FINISHED GRADE
3. MARKING TAPE 12" DEPTH MAX.
4. MATERIALS CLEAN DRY SAND, FINE LIME ROCK OR PIT SHELL MECHANICALLY COMPACTED IN 6" LIFTS TO AT LEAST 95% OF MAX. DENSITY, OR 98% IF UNDER PAVED AREA OF ROADWAY.
5. #57 STONE LOCATED UNDER PIPE OR EXISTING UNDISTURBED SUITABLE MATERIAL
6. SPRING LINE
7. STANDARD 6" MIN TRENCH UNDERCUT AND BACKFILL WITH #57 STONE COMPACTED IN 6" LIFTS ADDITIONAL UNDERCUT AND CRUSHED ROCK BEDDING FOUNDATION WHEN DIRECTED BY L.C.U. THE CONTRACTOR IS TO REMOVE UNSTABLE MATERIAL FROM THE TRENCH FOUNDATION. THEN INSTALL STABILIZED CRUSHED ROCK BACKFILL WITH #57 STONE COMPACTED IN 6" LIFTS
8. LOCATING WIRE IS REQUIRED FOR ALL PRESSURIZED PIPELINES.

TITLE: TRENCH CROSSING
NOT TO SCALE — REVISION: 1/29/24 — SHEET NO.: G-05.dwg

January 29, 2024 7:12 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\G-05.dwg

PIPE SIZE	HORIZONTAL DEFLECTIONS 90° BENDS L₂ (FT.)	45° BENDS L₂ (FT.)	22.5° BENDS L₂ (FT.)	11.25° BENDS L₂ (FT.)	VERTICAL DEFLECTIONS 45° BENDS (SEE NOTE 2) L3a (FT.)	L3b (FT.)	DEAD ENDS & VALVES L₁ (FT.)	REDUCERS (SEE NOTES) SIZE	L₂A (FT.)
4"	20	10	5	5	20	5	45	6 x 4	30
6"	20	10	5	5	30	5	60	8 x 6	35
8"	30	15	5	5	40	10	80	8 x 4	60
10"	35	15	10	5	50	10	95	10 x 8	30
12"	40	15	10	5	60	10	110	10 x 6	60
16"	50	20	10	5	75	15	145	12 x 10	35
20"	60	25	15	5	90	20	175	12 x 8	60
24"	70	30	15	10	105	20	200	16 x 12	50
30"	80	35	15	10	125	25	240	16 x 10	85
36"	90	40	20	10	145	30	280	20 x 16	60
								20 X 12	110
								24 x 20	60
								24 x 16	110
								30 x 24	85
								30 X 20	130
								36 x 30	85
								36 x 24	155

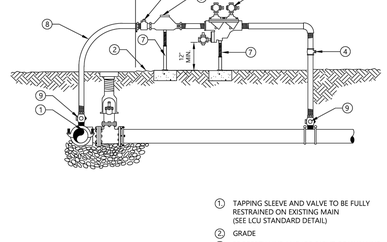
RUN SIZE	BRANCH SIZE	L1m (FT.)	L1b' (FT.)
4"	4" 4" OR LESS	10 10	10 10
6"	6" 4" OR LESS	10 10	10 10
8"	8" 6" 4" OR LESS	10 10 10	10 10 10
10"	10" 8" 6" OR LESS	10 10 10	20 10 10
12"	12" 10" 8" 6" OR LESS	20 10 10 10	20 10 10 10
16"	16" 12" 10" 8" OR LESS	20 10 10 10	20 10 10 10
20"	20" 16" 12" 10" OR LESS	20 10 10 10	20 10 10 10
24"	24" 20" 16" 12" 10" OR LESS	20 20 10 10 10	40 20 20 10 10
30"	30" 24" 20" 16" 12" OR LESS	20 20 20 10 10	75 20 20 10 10
36"	36" 30" 24" 20" 16" OR LESS	20 20 20 10 10	110 30 20 20 10

NOTES:

1. L(A) = RESTRAINED LENGTH OF PIPE ON LARGE SIDE THE REDUCER. NO RESTRAINT IS REQUIRED ON THE SMALL SIDE OF THE REDUCER.
2. L3a = RESTRAINED LENGTH ALONG THE RUN ON BOTH SIDES OF THE TEE L3b = RESTRAINED LENGTH ALONG THE BRANCH OF THE TEE
3. ALL DEAD END LINES OR VALVES, PERMANENT OR TEMPORARY, SHALL BE RESTRAINED PER THE ABOVE RESTRAINT TABLE. ALL VALVES ARE TO BE TREATED AS A DEAD END AND RESTRAINED IN EACH DIRECTION.
4. A SAFETY FACTOR OF 2.5 IS USED FOR VERTICAL DEFLECTIONS (DIP)
5. A SAFETY FACTOR OF 2.0 IS USED FOR ALL OTHER CASES.

TITLE: RESTRAINED LENGTH SCHEDULE
NOT TO SCALE — REVISION: 4/24/25 — SHEET NO.: G-10.dwg

April 24, 2025 1:39 PM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\G-10.dwg



1. TAPPING SLEEVE AND VALVE TO BE FULLY RESTRAINED ON EXISTING MAIN (SEE LCU STANDARD DETAIL)
2. GRADE
3. PROPERTY LINE AND/OR RIGHT OF WAY LINE
4. BRONZE BALL VALVE
5. METER FURNISHED BY LEE COUNTY UTILITIES
6. REDUCED PRESSURE BACKFLOW PREVENTER
7. PIPE STAND (SEE LCU STANDARD DETAIL)
8. 2" DIA. HDPE DR9
9. 2" DIA. CORPORATION STOP
10. 2" DIA. CURB STOP

TITLE: TEMPORARY CONSTRUCTION JUMPER WITH METER
NOT TO SCALE — REVISION: 12/18/24 — SHEET NO.: W-04.dwg

December 18, 2024 9:03 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\W-04.dwg

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SUNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

DEVELOPMENT ORDER PLANS

WATER DETAILS

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES: DO, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

811 Know what's below. Call before you dig.

ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE AT THE TIME OF PLAN PREP. WE GUARANTEE ALL FACILITIES ARE SHOWN OR THAT THE LOCATION, SIZE, OR NUMBER OF EACH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION.

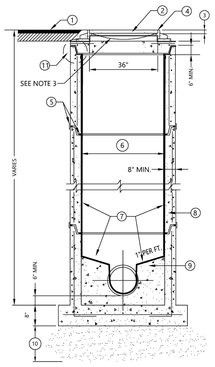
RACHEL J. TRACEY

P.E. LIC. #65322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-25	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

SHEET 31

S:\Utes\Bur\8844\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\UTILITY DETAILS.dwg, 9/9/2026 2:38:55 PM, KEVIN.GONZALEZ, ATWELL, LLC



1. GRADE
2. SEE MASTER MANHOLE COVER DETAIL, S-03
3. SET TOP OF COVER 2 ½" ABOVE FINISHED GRADE IN UNPAVED AREAS
4. SET TOP OF COVER FLUSH WITH PAVEMENT IN PAVED AREA
5. ALL JOINTS SHALL BE SEALED ON INTERIOR & EXTERIOR WITH A FLEXIBLE PREFORMED BITUMASTIC JOINT MATERIAL. WRAP TAPE AROUND OUTSIDE OF MANHOLE JOINTS. (SEE APPROVED MATERIAL LIST)
6. 6' DIA.
7. INTERIOR COATING/LINER (SEE APPROVED MATERIAL LIST) SYSTEM TO COVER ENTIRE BENCH AND INVERT CHANNEL
8. REINFORCED PRECAST CONCRETE CLASS "A" TYPE II 4,000 PSI
9. POURED CONCRETE. NO BRICK OR GRAVEL
10. 12" S7 STONE
11. KEYED JOINT (TYP)

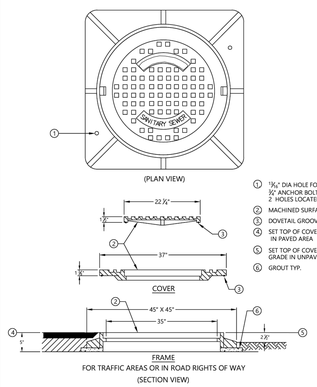
NOTES:

1. MASTER MANHOLES FOR WASTEWATER PUMPING STATIONS SHALL HAVE ONLY ONE INFLUENT AND ONE EFFLUENT PIPE, UNLESS OTHERWISE APPROVED BY LEE COUNTY UTILITIES.
2. FLEXIBLE RESILIENT CONNECTIONS SHALL BE INSTALLED FOR ALL CONNECTIONS BETWEEN MANHOLE AND PIPES.
3. PROVIDE PLASTIC INFLOW PROTECTORS FOR ALL MANHOLES IN NON-TRAFFIC BEARING AREAS. PROVIDE 304 STAINLESS STEEL INFLOW PROTECTORS FOR ALL MANHOLES IN TRAFFIC BEARING AREAS. (SEE APPROVED MATERIAL LIST)

NOT TO SCALE

TITLE:	MASTER PRE-CAST MANHOLE
REVISION:	9/10/24
DETAIL #:	S-02.dwg

September 10, 2024 2:04 PM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\S-02.dwg

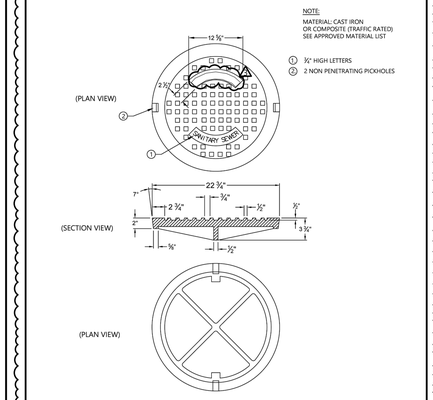


1. 1¼" DIA HOLE FOR ⅝" ANCHOR BOLT 2 HOLES LOCATED 180° APART
2. MACHINED SURFACE
3. DOVETAIL GROOVE & "O" RING GASKET
4. SET TOP OF COVER FLUSH WITH PAVEMENT IN PAVED AREA
5. SET TOP OF COVER 2 ½" ABOVE FINISHED GRADE IN UNPAVED AREAS
6. GROUT TYP.

NOT TO SCALE

TITLE:	MASTER MANHOLE COVER
REVISION:	3/7/24
DETAIL #:	S-03.dwg

March 7, 2024 2:15 PM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\S-03.dwg

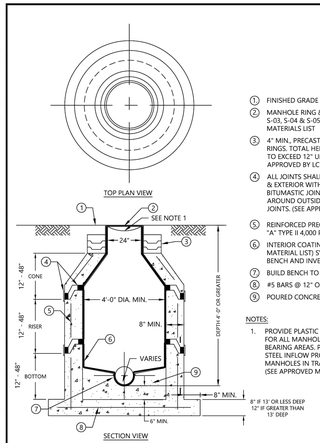


1. ½" HIGH LETTERS
2. 2 NON PENETRATING PICKHOLES

NOT TO SCALE

TITLE:	MANHOLE FRAME COVER
REVISION:	9/5/24
DETAIL #:	S-04.dwg

September 5, 2024 12:38 PM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\S-04.dwg



1. FINISHED GRADE
2. MANHOLE RING & COVER (SEE DETAILS S-03, S-04 & S-05 AND APPROVED MATERIALS LIST
3. 4" MIN., PRECAST CONCRETE ADJUSTING RINGS. TOTAL HEIGHT OF CHIMNEY NOT TO EXCEED 12" UNLESS OTHERWISE APPROVED BY LCU
4. ALL JOINTS SHALL BE SEALED ON INTERIOR & EXTERIOR WITH A FLEXIBLE PREFORMED BITUMASTIC JOINT MATERIAL. WRAP TAPE AROUND OUTSIDE OF MANHOLE AT ALL JOINTS. (SEE APPROVED MATERIAL LIST)
5. REINFORCED PRECAST CONCRETE CLASS "A" TYPE II 4,000 PSI
6. INTERIOR COATING/LINER (SEE APPROVED MATERIAL LIST) SYSTEM TO COVER ENTIRE BENCH AND INVERT CHANNEL
7. BUILD BENCH TO SPRING LINE OR ABOVE
8. #5 BARS @ 12" O.C. E.W. TYPICAL
9. POURED CONCRETE. NO BRICK OR GRAVEL

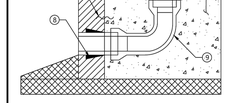
NOTES:

1. PROVIDE PLASTIC INFLOW PROTECTORS FOR ALL MANHOLES IN NON-TRAFFIC BEARING AREAS. PROVIDE 304 STAINLESS STEEL INFLOW PROTECTORS FOR ALL MANHOLES IN TRAFFIC BEARING AREAS. (SEE APPROVED MATERIAL LIST)

NOT TO SCALE

TITLE:	PRECAST MANHOLE CONCENTRIC
REVISION:	12/18/24
DETAIL #:	S-07.dwg

December 18, 2024 8:49 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\S-07.dwg

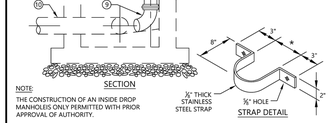


1. CAST IN PLACE FLEX PIPE CONNECTION BOOT W/SERIES 300 S.S. CLAMP C-923 AND RUBBER BOOT
2. STUB PIPE
3. CONCRETE TO SPRING LINE OF PIPE
4. COMPRESSION COUPLING CONNECTION OR APPROVED EQUAL
5. MANHOLE WALL
6. TEE
7. MASONRY ANCHORS MIN. ONE TIE PER TWO SQ. FT. OF CONTACT AREA FOR DROP CONNECTIONS TO EXISTING M.H.S. ONLY
8. CAST IN PLACE FLEX PIPE CONNECTION BOOT W/SERIES 300 S.S. CLAMP C-923 AND RUBBER BOOT
9. 90° MITERED BEND
10. SQUARE, CONCRETE ENCASEMENT CLASS "C."
11. SDR 26 PVC PIPE

NOT TO SCALE

TITLE:	MANHOLE 4' DROP OR GREATER
REVISION:	3/21/24
DETAIL #:	S-09.dwg

March 21, 2024 9:53 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\S-09.dwg



1. EXISTING GRADE
2. EXISTING MANHOLE
3. 90° BEND
4. CORE DRILL MANHOLE AND FILL VOID WITH NON-SHRINK GROUT
5. COMPRESSION COUPLING
6. P.V.C. SEWER
7. CRUSHED STONE BEDDING
8. STRAP AT TEE ELBOW AND ON 4' CENTERS WITH ½" DIA. EXPANSION TYPE S.S. CINCH BOLTS & S.S. ANCHORS
9. * 90° BEND RESTING ON RE-FORMED CHANNEL AND TURNED IN DIRECTION OF EXISTING SEWER FLOW
10. * EXIST. SEWER

* PIPE SIZE VARIES

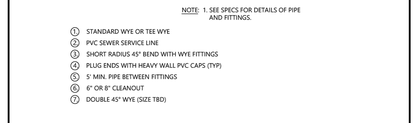
NOTE

THE CONSTRUCTION OF AN INSIDE DROP MANHOLEIS ONLY PERMITTED WITH PRIOR APPROVAL OF AUTHORITY.

NOT TO SCALE

TITLE:	INSIDE MANHOLE DROP
REVISION:	2/11/25
DETAIL #:	S-11.dwg

February 11, 2025 8:34 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\S-11.dwg



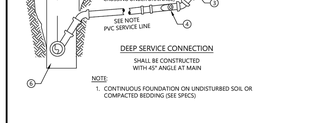
NOTE: 1. SEE SPECS FOR DETAILS OF PIPE AND FITTINGS.

1. STANDARD WYE OR TEE WYE
2. PVC SEWER SERVICE LINE
3. SHORT RADIUS 45° BEND WITH WYE FITTINGS
4. PLUG ENDS WITH HEAVY WALL PVC CAPS (TYP.)
5. 5' MIN. PIPE BETWEEN FITTINGS
6. 6" OR 8" CLEANOUT
7. DOUBLE 45° WYE (SIZE TBD)

NOT TO SCALE

TITLE:	STANDARD SEWER SERVICE LATERAL
REVISION:	3/27/24
DETAIL #:	S-12.dwg

March 27, 2024 6:24 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\S-12.dwg

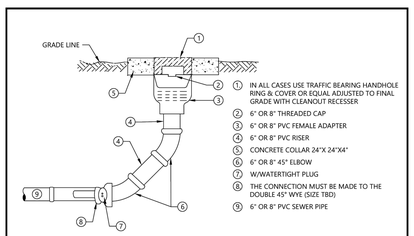


1. FLAGGED STAKE
2. CONCRETE COLLAR 24"X24"X4"
3. SEWER CLEANOUT (SEE STANDARD DETAIL S-14)
4. DOUBLE 45° WYE (SIZE TBD)
5. SERVICE SHALL BE INSTALLED AT SLOPE OF NOT LESS THAN 0.63% OR GREATER THAN 2%
6. SEE TRENCH SECTION DETAIL

NOT TO SCALE

TITLE:	STANDARD SEWER SERVICE LATERAL
REVISION:	3/27/24
DETAIL #:	S-13.dwg

March 27, 2024 7:33 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\S-13.dwg



1. IN ALL CASES USE TRAFFIC BEARING HANDHOLE RING & COVER OR EQUAL ADJUSTED TO FINAL GRADE WITH CLEANOUT RECESSER
2. 6" OR 8" THREADED CAP
3. 6" OR 8" PVC FEMALE ADAPTER
4. 6" OR 8" PVC RISER
5. CONCRETE COLLAR 24"X 24"X4"
6. 6" OR 8" 45° ELBOW
7. W/WATERTIGHT PLUG
8. THE CONNECTION MUST BE MADE TO THE DOUBLE 45° WYE (SIZE TBD)
9. 6" OR 8" PVC SEWER PIPE

COVER TYPE	LOAD RATING	COVER WEIGHT	TOTAL WEIGHT
FE	HEAVY DUTY	20	45

NOT TO SCALE

TITLE:	6" TO 8" SEWER CLEANOUT
REVISION:	4/2/24
DETAIL #:	S-14.dwg

June 4, 2024 10:08 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\S-14.dwg

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FORT MYERS, FL 33966
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SANITARY SEWER DETAILS

DEVELOPMENT ORDER PLANS

SUNILAND COMMONS

LEE COUNTY, FLORIDA

WMG ACQUISITIONS, LLC

PREPARED FOR:

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
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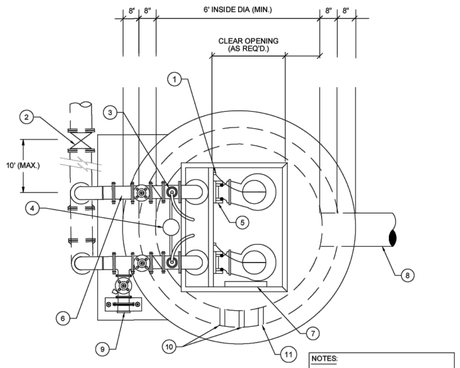
RACHEL J. TRACEY

P.E. LIC. #65322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-25	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

SHEET 32

D:\Jobs\Bonita\8844\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\UTILITY DETAILS.dwg, 6/9/2026 2:38:03 PM, KEVIN.GONZALEZ, ATWELL, LLC

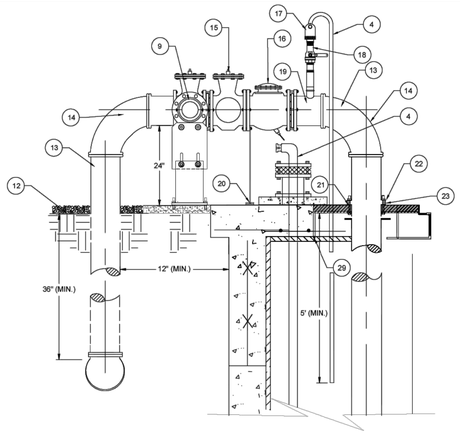


WETWELL PLAN

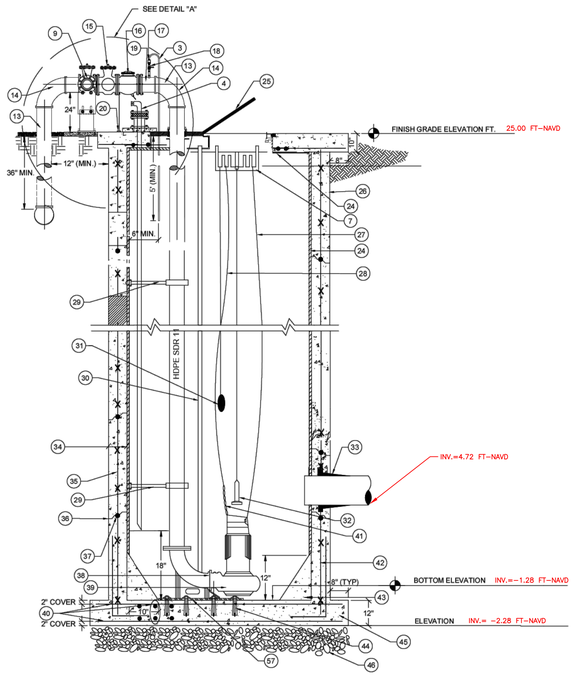
NOTES:

CONTRACTOR TO SET PUMPS AND ACCESS COVER TO ENSURE ACCURATE ALIGNMENT OF GUIDE RAILS.

CONDUIT FOR PUMP POWER CABLES & FLOAT SWITCH CABLES, PLACEMENT IS TO BE DETERMINED BY LOCATION OF CONTROL PANEL.



DETAIL "A"



SECTION

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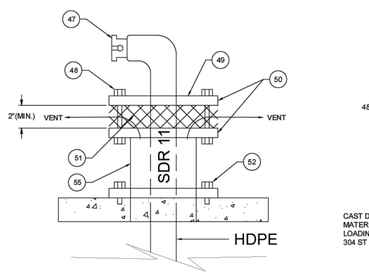
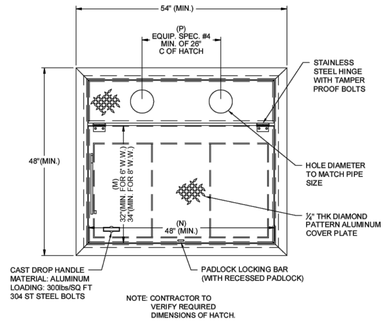
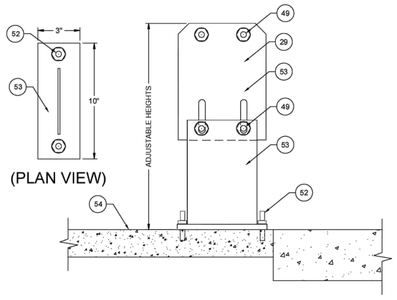


EMERGENCY PUMP OUT AND AIRVENT DETAIL

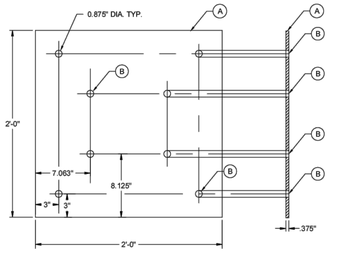


NOTE: CONTRACTOR TO VERIFY REQUIRED DIMENSIONS OF HATCH.

WETWELL ACCESS HATCH



PIPE SUPPORT DETAIL
(INSTALLED AT PLUG VALVE & PUMP OUT)



PLAN VIEW SECTION VIEW

(A) 316 STAINLESS STEEL BASE PLATE

(B) ¾" DIA. X 8" STAINLESS STEEL WEDGE BOLT SCREW ANCHORS, (8 EA)

PUMP DISCHARGE BASEPLATE

GENERAL NOTES AND REQUIREMENTS

1. ½" THK. SERIES 300 STAINLESS STEEL HOOKS FOR HOIST CABLES
2. PLUG VALVE
3. PVC DRAIN LINE FROM AIR RELEASE VALVE TO WETWELL
4. EMERGENCY PUMP OUT AND AIRVENT (SAME DIAMETER AS DISCHARGE PIPING) (SEE DETAIL)
5. GUIDE RAILS
6. SPOOL PIECE
7. STAINLESS STEEL FLOAT CABLE SUPPORT
8. INFLUENT PIPE INSTALLED RADIALLY FROM WETWELL CENTER
9. FEMALE QUICK CONNECT COUPLER WITH CAP & PLUG VALVE
10. POWER CABLE
11. FLOAT CONTROLS
12. FILTER CLOTH WITH 4" OF COMPACTED #57 STONE
13. HDPE PIPE
14. LONG RADIUS 90° BEND
15. PLUG VALCE (PAINT BLACK)
16. SWING FLEX CHECK VALVE (PAINT BLACK)
17. 2" AUTOMATIC AIR RELEASE VALVE; (SEE LCU APPROVED MATERIAL LIST) ON EACH DISCHARGE PIPE
18. 2" STAINLESS STEEL BALL VALVE (SEE APPROVED MATERIAL LIST)
19. HDPE BRANCH SADDLE PE 3408 ASTM D3350 (BLACK) WITH FEMALE THREADED INSERT BRASS ALLOY STAINLESS COMPRESSION RING GRADE TYPE 304 OR 316
20. STAINLESS STEEL PIPE SUPPORT (SEE DETAIL)
21. NEOPRENE GASKET
22. STAINLESS STEEL FLANGE RING
23. HDPE RIM (FUSED TO HDPE PIPE)
24. LINER OR COATING (SEE LCU APPROVED MATERIAL LIST)
25. ALUMINUM WETWELL HATCH (SEE DETAIL)
26. COAL TAR EPOXY (BELOW FINISHED GRADE)
27. SENSOR CABLE
28. SERIES 316 STAINLESS STEEL ½" CABLE
29. SERIES 316 STAINLESS STEEL PIPE SUPPORT
30. 2" SERIES 316 STAINLESS STEEL GUIDE RAILS
31. HIGH WATER ALARM SIGNAL ON
32. SUBMERSIBLE LEVEL TRANSMITTER
33. CAST IN PLACE FLEXIBLE PIPE CONNECTION WITH SERIES 316 STAINLESS STEEL CLAMP C-623. CHARDON RUBBER, O/E (TYP.)
34. WALL THICKNESS 8" MIN.
35. STEEL REINFORCEMENT
36. RAM-NEK BLANKET OUTER SIDE OF WETWELL
37. RAM-NEK OR EQUAL PREFORMED PLASTIC GASKET MATERIAL BETWEEN PRECAST UNITS (TYP.)
38. AUTOMATIC DISCHARGE CONNECTION TO SUIT PUMP
39. SUBMERSIBLE PUMPS
40. #5 AT 8" CENTER
41. SERIES 316 STAINLESS STEEL ⅜" CHAIN (1'-6" LONG)
42. #4 AT 8" CENTER
43. CONC. OR PORTLAND TYPE II & SAND MIX
44. ⅜" DIA. X 8" STAINLESS STEEL WEDGE BOLT SCREW ANCHORS, 8 EA REFER TOLCU STANDARD DETAIL
45. BASE SECTION TO BE A MONOLITHIC CASTING
46. 12" MIN COMPACTED #57 STONE
47. CAM LOCK COUPLING ON EMERGENCY PUMP OUT
48. STAINLESS STEEL BOLTS
49. BLIND FLANGE
50. STAINLESS STEEL CLAMP
51. STAINLESS STEEL SCREEN CLOTH
52. STAINLESS STEEL CONCRETE BOLTS
53. ⅜" STAINLESS STEEL
54. 4" THICK 3,000 P.S.I. CONCRETE SLAB
55. AIR VENT TO BE 2PIPE SIZES LARGER THAN EMERGENCY PUMP OUT. THE ACTUAL LOCATION IS TO BE DETERMINED IN THE FIELD.
56. LCU PREFERS THE LIFT STATION FENCE TO HAVE DARK GREEN VINYL COATING. HOWEVER, BLACK VINYL IS ACCEPTABLE.
57. PUMP DISCHARGE BASE PLATE (SEE DETAIL)

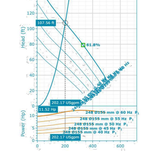
⚠ NOTE: CONTRACTOR IS RESPONSIBLE FOR HAVING THE MISSION CONTROL UNIT INSTALLED AND PROGRAMMED AT LIFT STATION START UP.

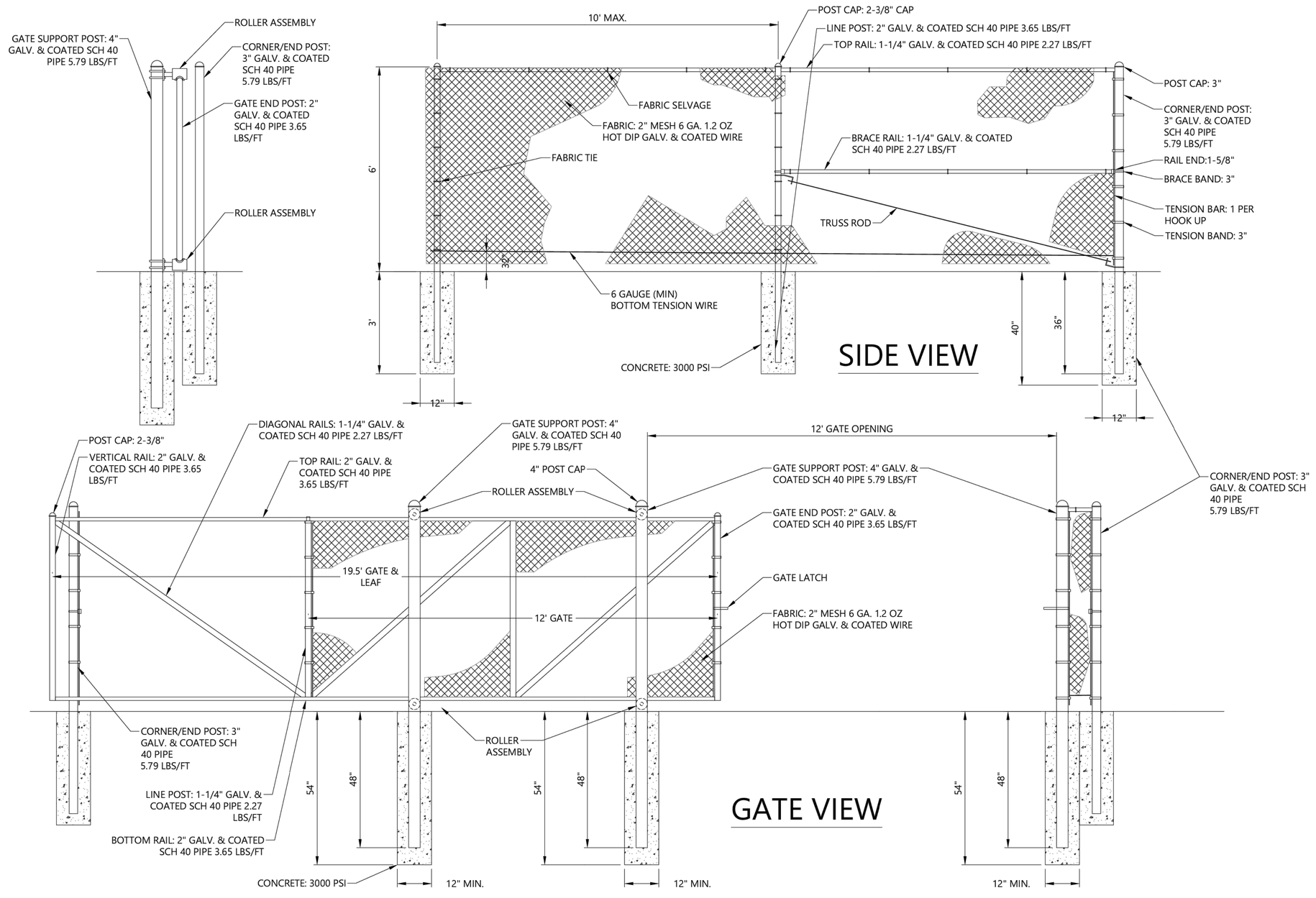
NUMBER OF PUMPS	# 1	# 2	# 3	
PUMP MANUFACTURER	FLYGT	FLYGT		
PUMP MODEL NUMBER	3127 SH3 -248	3127 SH3 -248		
IMPELLER NUMBER	155 MM	155 MM		
TYPE OF PUMP	SUBMERSIBLE			
DESIGN CAPACITY PER PUMP	205 GPM	205 GPM		(GPM)
TOTAL DYNAMIC HEAD	107 FT	107 FT		(FEET)
SHUT-OFF HEAD	157 FT	157 FT		(FEET)
DESIGN SPEED	3515 RPM	3515 RPM		(PRM)
MIN. HORSEPOWER PER PUMP	11 HP	11 HP		(HP)
VOLTS	460 V	460 V		(VOLTS)
PHASE POWER	3 PHASE	3 PHASE		(PH)
PUMP DISCHARGE SIZE	3 IN	3 IN		(INCHES)
DIAMETER RISER PIPE	4 IN	4 IN		(INCHES)
PUMP ON ELEVATION	3.72 FT	2.72 FT		(FEET)
HIGH WATER ALARM	4.22 FT			(FEET)
PUMP OFF ELEVATION	1.42 FT			(FEET)
DIAMETER PIPE AFTER RISER	4 IN			(INCHES)
DIAMETER WETWELL (I.D.)	6 FT			(FEET)
TOP OF WETWELL ELEVATION	25.00 FT-NAVD			(FEET)
BOTTOM ELEVATION	-1.28 FT-NAVD			(FEET)
INFLUENT GRAVITY PIPE ELEVATION	4.72 FT-NAVD			(FEET)

BASIS OF DESIGN			
	ADF (gpm)	PHF (gpm)	EDU (1 EDU=250 gpd)
EXISTING	0.0	0.0	0.0
INTERIM	0.0	0.0	0.0
FUTURE	63.92 GPM	191.8 GPM	92,045 GPD (1EDU/250 GPD) =368.18 EDU

NOTE: FUTURE INCLUDES ESTIMATED FLOWS FOR THE BUILDOUT OF PROPOSED COMMERCIAL AND RESIDENTIAL USE PER MCP IN LEE COUNTY ZONING ORD. Z-4-012.

xylem
NP 3127 SH 3~ Adaptive 248 | Configuration Summary


Head (ft)
Head (m)
Flow (USgpm)
Flow (l/s)
247.5 ft
75.4 m
205 USgpm
13 l/s
247.5 ft 75.4 m 205 USgpm 13 l/s
247.5 ft 75.4 m 205 USgpm 13 l/s
247.5 ft 75.4 m 205 USgpm



NOT TO SCALE

March 20, 2024 7:51 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\LS-02.dwg

TITLE: LIFT STATION FENCING DETAIL
REVISION: 3/20/24 DRAWING NO: LS-02.dwg

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE 101
FORT MYERS, FL 33966
(239) 939-5490

LIFT STATION DETAILS 02

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:

WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER LCU COMMENTS DATED 12/05/2025	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/09/2026	NL

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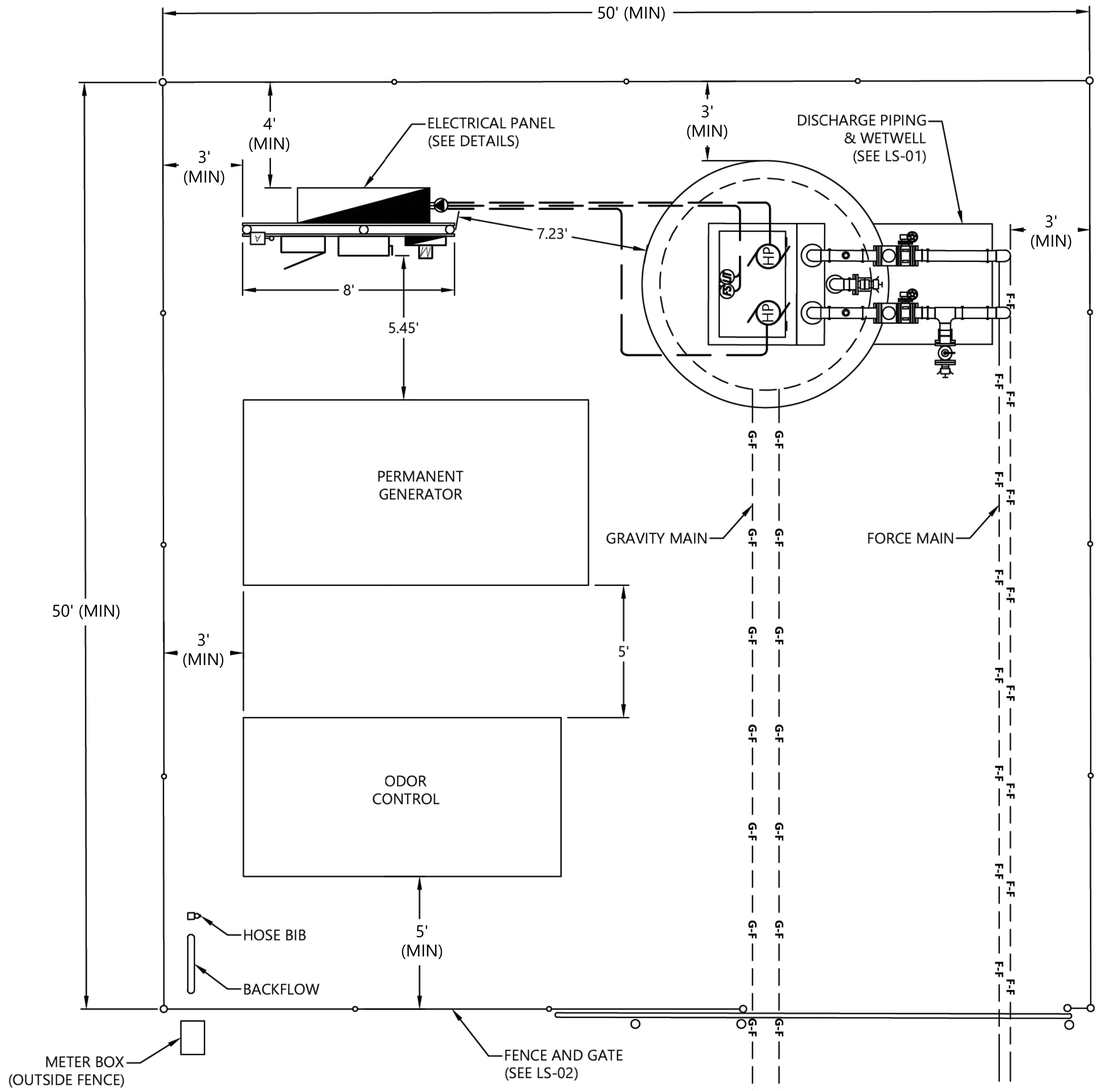
RACHEL J. TRACEY
P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 34

S:\Utilities\ENGINEERING\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\LIFT STATION DETAILS.dwg, 3/6/2026 2:59:21 PM, KEVIN GONZALEZ, ATWELL, LLC



NOTES:

1. FGUA REQUIRES A SINGLE 16 FT SLIDING GATE.
2. FENCE A MINIMUM 50 FT BY 50 FT.
3. PROVIDE SHOP DRAWINGS FOR FGUA REVIEW PRIOR TO ORDERING MATERIALS.

NOT TO SCALE

March 20, 2024 7:50 AM S:\Utilities\ENGINEERING\ACAD\LCU-CAD-Stnds\151209 LCU STD DETAILS\CAD FILES\LS-04.dwg

TITLE: STANDARD 35'X35' LIFT STATION LAYOUT

REVISION: 3/20/24 LS-04 DETAIL NO: LS-04.dwg

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866.850.4200 www.atwell.com
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FORT MYERS, FL 33966
(239) 939-5490

LIFT STATION DETAILS 03

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR: WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES, DO, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/26/2026	NL

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RACHEL J. TRACEY

P.E. LIC. #85322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER: 8844	COMPLETION DATE: 03-26-25	SURVEY DATUM: NAVD88
BOOK AND PAGE:		

SHEET 35

D:\Users\Blue\AWP\Engineering\CONSTRUCTION DOCUMENTS\CONSTRUCTION PLANS\LS-FT 3.5 FT\CIVIL\STD DETAILS.dwg, 3/4/2026 2:39:29 PM, KEVIN.GONZALEZ, ATWELL, LLC

STORM WATER TRACT 1
DRY DETENTION #1

STORM WATER TRACT 2
DRY RETENTION #1

EXIST. OIL WELL

(NOT PART OF THE PROPOSED IMPROVEMENTS)

LOT 1

LOT 2
3.94 AC

SUNNILAND BLVD.

LOT 5

PRESERVE

5TH ST W.

5TH ST W.

LOT 3

LOT 4

LOT 6

LOT 7

LOT 8

LOT 9

LEE BLVD.

0 60
SCALE: 1"= 60'

100-ft Aerial FireTruck

Overall Length	48.000ft
Overall Width	9.083ft
Overall Body Height	7.903ft
Min Body Ground Clearance	0.814ft
Track Width	9.073ft
Lock-to-lock time	5.00s
Wall to Wall Turning Radius	45.833ft

ATWELL
866.850.4200 www.atwell.com
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FORT MYERS, FL 33966
(239) 939-5490

FIRETRUCK TURN EXHIBIT

DEVELOPMENT ORDER PLANS

SUNNILAND COMMONS

LEE COUNTY, FLORIDA

PREPARED FOR:
WMG ACQUISITIONS, LLC

NO.	DATE	REVISION DESCRIPTION	BY
1	09/18/2025	REVISED PER SFWMD COMMENTS DATED 8/7/2025	NL
2	01/09/2026	REVISED PER CLIENT CHANGES: DO, & FGUA COMMENTS	NL
3	03/03/2026	REVISED PER COUNTY COMMENTS DATED 02/26/2026	NL

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RACHEL J. TRACEY

P.E. LIC. #65322

DRAFTED BY:	DESIGNED BY:	REVIEWED BY:
KG	KG	RJT
PROJECT NUMBER:	COMPLETION DATE:	SURVEY DATUM:
8844	03-26-25	NAVD88
BOOK AND PAGE:		

SHEET 36

S:\Jobs\Bonita\8844\Engineering\TRUCK TURN EXHIBIT\8844-TURNPATH.S.SYS PLAN-TRUCK-TURN_2026-01-06.dwg, 3/4/2026 2:59:43 PM, KEVIN.GONZALEZ, ATWELL, LLC

SUNNILAND COMMONS

Stormwater Management Report

Revised November 8, 2025

PREPARED FOR:

WMG Acquisitions, LLC
270 West Plant Street
Winter Garden, FL 34787

PREPARED BY:

Atwell, LLC
10511 Six Mile Cypress Parkway, Suite 101
Fort Myers, FL 33966

Rachel J. Tracey, P.E.
Florida License No. 85322

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Land Use Breakdown - Buildout and Site Data

Water Quantity Calculations

Water Quality Calculations

Time of Concentration, Allowable Discharge, and Bleed Down

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Basin Exhibit

Land Use Breakdown - Buildout and Site Data

Water Quantity Calculations

Water Quality Calculations

Time of Concentration, Allowable Discharge, and Bleed Down

I.4A StormWise Input Summary, 10 Year Storm (TW differs from 25 year)

I.4B 10 Year Node Max

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1.0 CONSULTANT'S STORMWATER STAFF REPORT

Project Name:	Sunniland Commons
Permittee:	WMG Acquisitions, LLC 270 West Plant Street, Winter Garden, FL 34787
Operating Entity:	Association per the Declaration, Covenants, Conditions, and Restrictions for Sunniland Commons.
Location:	Lee County, FL
Permit Acres:	31.71 ACRES
Project Land Use:	Commercial/Mixed Use
Drainage Basin:	Orange River via Angelfish Canal
Special Drainage District:	Lehigh Acres Municipal Services Improvement District (LAMSID) – Angelfish Canal
Water Body Classification:	CLASS III
FDEP Water Body ID:	3240K, Orange River
Conservation Easement to District:	No
Sovereign Submerged Lands:	No
Permit No.:	TBD
Application No.:	TBD
Application Type:	Environmental Resource Permit

1.1 PROJECT OVERVIEW

This application requests a proposed Environmental Resource Permit for two parcels generally at the intersection of Lee Boulevard and Sunniland Blvd in Lee County, Florida. The Lee County Parcel STRAP Numbers are 26-44-26-L4-00003.0010 and 26-44-26-L4-00003.0000. The two parcels are separated from each other by Sunniland Blvd which is a Lee County Department of Transportation (DOT) road. The west parcel is 10.99 acres and is bordered on the north and west by a LAMSID canal, on the east by Sunniland Boulevard, and south by Lee Boulevard. The parcel on the east is 20.72 acres and is boarded by a LAMSID canal on the north and east, Sunniland Boulevard on the west, and Lee Boulevard on south.

The proposed project consists of the backbone infrastructure support future commercial/mixed use projects. It includes the stormwater management, roadways, and drainage. There are 9 proposed lots which will be built out at a later date. This ERP includes a maximum of 80% impervious area of the lots.

The site is proposed to be split into a western basin and eastern basin both with separate discharge points to the south to the Lehigh Acres Municipal Services Improvement District (LAMSID) Angelfish Canal with ultimate discharge to the Orange River. Appendix A includes the LAMSID Canal Map with the project location noted. A drainage basin map is enclosed in the stormwater report. Please see Appendix H and I for information on basins for the western parcel and the eastern parcel. The eastern parcel also accounts for historic flow from the 1.60 acre oil well parcel which is not owned by applicant. The historic patterns will not be disturbed. A proposed drainage easement is also included on the plans on the east side of the oil well parcel through applicant owned area for future use by the oil well for discharge to the eastern LAMSID canal for a means of future access to the abutting LAMSID canal if needed.

The western parcel conveys stormwater via interconnected inlets to an exfiltration trench on the south side of stormwater management tract 1. Storm structures ST-06 and ST-08 convey the stormwater to the exfiltration trench. After the exfiltration trench the same structures include a weir wall at elevation 20.20 FT-NAVD which will convey stormwater to the dry detention area for water quality and attenuation. After the dry detention area a control structure labeled as CS-WB (Control Structure West Basin) limits discharge to the LAMSID Canal.

The eastern parcel conveys stormwater via interconnected inlets and pipes to a dry retention area on the north and east side of lot 5. For nutrient loading the eastern side is split into an anchor parcel catchment and remaining catchment. See nutrient loading analysis for map and details. The anchor parcel catchment includes an exfiltration trench prior to discharge to retention area. The outparcel catchment uses retention to meet nutrient loading requirements. The retention elevation is set at the required retention volume based on the BMP Trains model of 20.28 FT-NAVD. This is achieved by using control structure CS-EB (Control Structure East Basin) to retain the stormwater up to that elevation. The same structure limits the discharge to the LAMSID canal and provides required water quality and attenuation for the site. Note due to the unusual condition of the oil well parcel in the middle of the basin historic flow was accounted for within the modeling. The proposed drainage easement on the east would provide an outfall for that parcel if they were to develop in the future. To ensure the east parcel would be able to accommodate historic flow see Appendix I.3 for scenario on today's condition with the oil well historic flow. A second scenario was run with the east basin standing along to ensure in the event the oil well reconfigured and discharged to the east the proposed east basin would meet required criteria. This is scenario 2 in Appenidx I.2. This ensures either condition the site will meet requirements.

Pursuant to the grandfather provisions in Section 3.1.2(i) of the Applicant's Handbook Volume 1, this project is grandfathered until October 1, 2034 from the new amendments to chapter 62-330, Florida Administrative Code, the Applicant's Handbook Volume I and Volume II that became effective June 28, 2024. The project is a Commercial Planned

Development per Lee County Zoning Resolution Z-06-090 before January 1, 2024.

1.2 SITE DESCRIPTION

The property is located at the intersection of Lee Boulevard and Sunniland Boulevard in Lee County, Florida.

1.3 OWNERSHIP, OPERATION, AND MAINTENANCE

Operation and maintenance of the stormwater management system will be the responsibility of Association per the Declaration, Covenants, Conditions, and Restrictions for Sunniland Commons.

1.4 CONTROL ELEVATION AND TAILWATER

The control for this site was taken to be 19.0 FT-NAVD. The existing site is relatively flat with existing grade ranging from 18.50 FT-NAVD to 24.50 FT-NAVD. Within two willow areas nails were located and surveyed. The average nail on the west side is 18.78 FT-NAVD and east side is 19.19 FT-NAVD. An average of 19.0 FT-NAVD was used for control. Please see nail information in Appendix J.

LAMSID provides engineers with a map with elevations which details the LAMSID canals and associated weirs through the canals. The map includes elevations of the weir crests and stages for the 25 year storm event. A copy of the map has been enclosed in Appendix A of the report along with the confirmation from LAMSID the map is in NGVD Datum. The project location is noted on the map and the controlling structure in the subject canal which LAMSID calls S-SF-1. LAMSID notes for that structure the crest elevation and upstream/downstream (25 year, 3 day) elevations in NGVD Datum. For this one the crest is 16.31 FT-NAVD and the 25 year/3 day is 20.11 FT-NAVD. For the tailwater for the 25 year the noted 25 year upstream was used which is the 20.11 FT-NAVD. For the 100 year the zero discharge is used. For the 10 year storm event the peak is taken as 19.50 FT-NAVD. This is since the crest would be below control and 19.50 FT-NAVD is taken as the assumption. Please see tables on next page for the tailwaters used in the model.

5 Year/1 Day & 10 Year/1 Day Tailwater	
Time (Hours)	Stage (FT-NAVD)
0.0	19.00
72.0	19.50
360.0	19.00

25 Year/3 Day Tailwater	
Time	Stage (FT-NAVD)

(Hours)	
0.0	19.00
72.0	20.11
360.0	19.00

WEST BASIN

LAMSID has an allowable discharge rate of 30.1 cubic feet per second per square mile. Please see Appendix C for the LAMSID criteria. The west basin is 10.99 acres with an allowable 0.52 cfs discharge. The west basin discharges 0.44 cfs which is below the allotted discharge rate. The control structure, noted as CS-WB, uses a 3 inch minimum bleeder. Therefore, bleed down is not applicable. The time of concentration for each sub-basin is noted in Appendix H. The site recovers to control elevation.

EAST BASIN

LAMSID has an allowable discharge rate of 30.1 cubic feet per second per square mile. Please see Appendix C for the LAMSID criteria. The allowable discharge is based on the applicant owned area only to be conservative. The east basin is 19.27 acres with an allowable 0.91 cfs discharge. The east basin discharges 0.89 cfs which is below the allotted discharge rate in scenario 1 which is with oil well historic flow and is detailed in Appendix I.3. To verify the east basin standalone for scenario 2 would be able to meet requirements the provided discharge is less than allowable at 0.88 cfs. The control structure, noted as CS-EB, uses a 3.0” square bleeder at retention elevation of 20.28 FT-NAVD with a second 3” circular weir at water quality elevation of 20.59 FT-NAVD.

For bleed down the allowable is 0.80 ac-ft. The provided is less than allowable; please see Appendix I. In the first scenario with the oil well provided is 0.22 ac-ft. In stand alone scenario 2 the provided is also 0.22 ac-ft.

As the east basin uses retention please see enclosed recovery analysis in section I.2 of the stormwater report. The site is able to recover within 72 hours.

1.5 FEMA INFORMATION

The project site is located in FEMA Zone X per Panel 12071C0475F effective 8.28.2008. A copy of the FIRMette is in Appendix E.

1.6 STORM EVENTS

The SFWMD rainfall maps for the 5 year/1 day, 10 year/1 day, 25 year/3 day, and 100 year/3 day events we reviewed and are enclosed in Appendix G. The rainfall amounts are 5.5”, 6.3”, 10.5”, and 14.0” respectively. NOAA site specific data was also reviewed and a

copy is enclosed in Appendix F. The NOAA rainfall was slightly higher and was used as the conservative option. See below summary.

Storm Event	Rainfall Amount (inches)
5 year, 1 day	5.79
10 year, 1 day	6.89
25 year, 3 day	10.70
100 year, 3 day	14.10

1.7 WATER QUALITY

Please see water quality calculations for west basin and east basin in Appendix H and I. The project provides the required water quality with the additional 150%. The water quality is provided via dry detention area 1 in the west basin and retention area 1 for the east basin. The east and west basins also provide compensating water quality for 1.36 acres of additional impervious surface for proposed off site impervious. Summary table below:

Sunniland Commons Overall Water Quality	
Required West Basin (ac-ft)	1.57
Provided West Basin (ac-ft)	1.59
Required East and Compensating for Off Site 1.36 ac additional impervious (ac-ft)	1.93
Provided West Basin (ac-ft)	1.92
Total Required (ac-ft)	3.50
Total Provided (ac-ft)	3.51

1.8 WATER QUANITITY

StormWise was used to model the stormwater management system. Please see appendix H and I for the modeling as well as water quantity spreadsheets. A basin map is enclosed in each section as well.

1.9 RESULTS

1.10.1 SFWMD Results

The results of the model and associated basin map are enclosed in Appendix H and I for the west and east basins. Please also see Appendix D for the stages as well as basin map. Please note for the east basin the stages were verified for both scenarios the site will function as designed and the more conservative stage was used.

1.10.2 Proposed Discharge Rate

The site discharges below the allotted for LAMSID.

1.10.3 Recovery

The west basin recovers for the 25 year storm event and for the east basin a 25 year back to storm was run. The site also recovers on the east basin for the proposed retention at 23.2 hours.

1.10.4 Proposed Bleed Down

The site adheres to the required bleed down. The west basin uses minimum bleeder and the east basin is less than allowable. See above in section 1.4 for description.

1.10.5 One Hundred Year, Zero Discharge Storm Event

The 100 year link discharge is enclosed noting the storm was run with zero discharge. The minimum finished floor elevation is this evaluation as the site is in FEMA Zone X.

1.10 NUTRIENT LOADING

A net improvement analysis was completed for the west basin and east basin using BMP Trains Software.

Please see the analysis and supporting information at the end of Appendix H for the west basin and the end of Appendix I for the east basin. The west basin uses an exfiltration trench. The east basin uses retention for the entirety of east basin.

1.11 WATER USE AND DEWATERING PERMIT STATUS

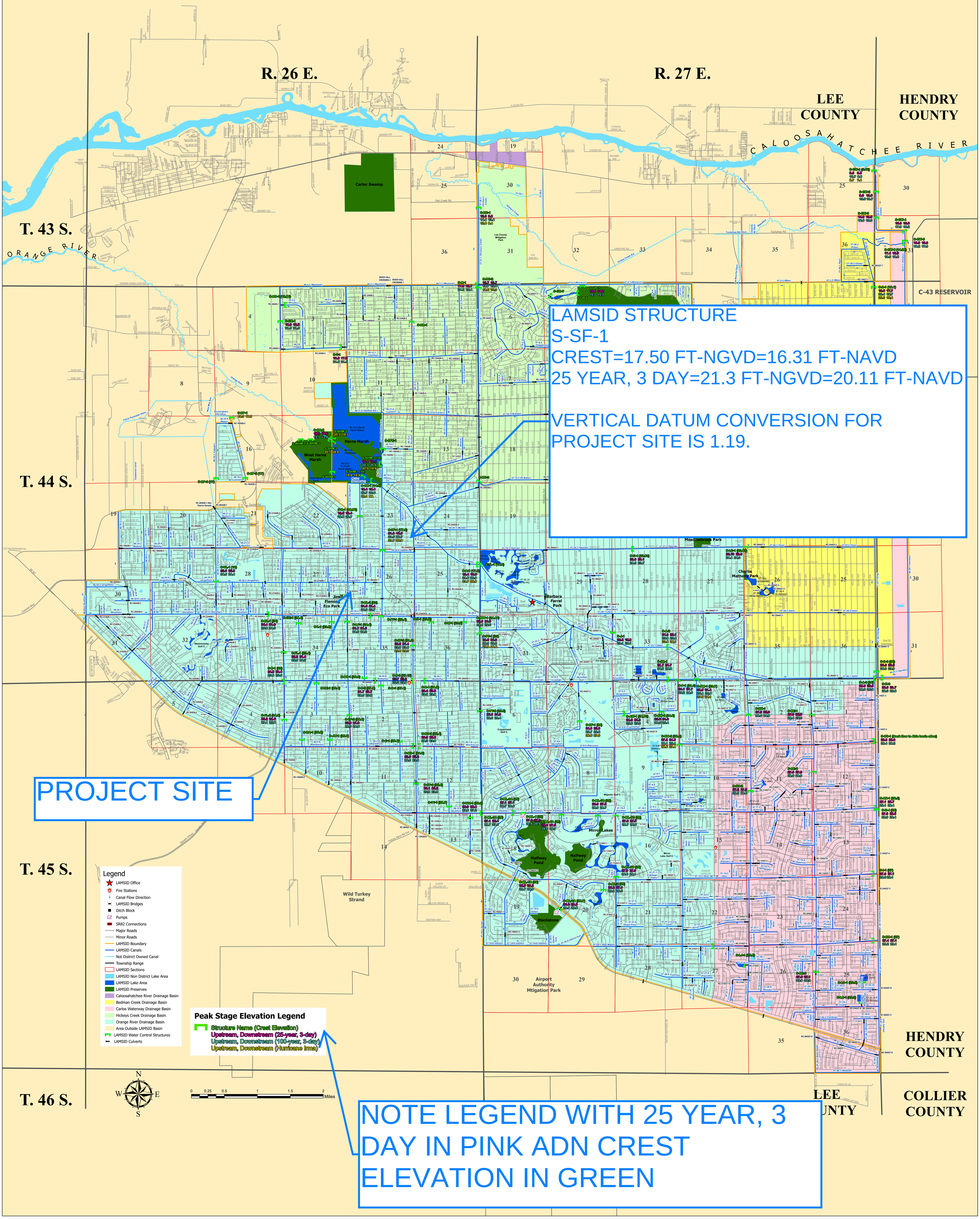
A water use and dewatering permit will be applied for concurrent with this application. Irrigation is proposed via well. Dewatering will be required for the utility installation.

1.12 WATER AND WASTEWATER SERVICE

Florida Governmental Utility Authority (FGUA) provides water and sewer to the project. A copy of the letter of availability is enclosed in the submittal package and Appendix K.

Appendix A: LAMSID Canal Map

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT



Appendix B: LAMSID Map Datum Verification

Rachel Tracey

From: Mike Cook <MCook@la-msid.com>
Sent: Monday, January 6, 2025 7:34 AM
To: Rachel Tracey
Subject: RE: LA-MSID Map Vertical Datum

Rachel,

All elevations are shown in NGVD 29.

Sincerely,

Michael S. Cook, CDM
Assistant District Manager

Lehigh Acres – Municipal Services Improvement District
601A East County Lane
Lehigh Acres, FL 33936
Phone: 239-368-0044 Ext. 16
Fax: 239-368-5412
Cell: 239-292-7491
Email: mcook@la-msid.com

From: Rachel Tracey <rtracey@atwell.com>
Sent: Friday, January 3, 2025 6:36 AM
To: Mike Cook <MCook@la-msid.com>
Subject: LA-MSID Map Vertical Datum

Good Morning Michael,

Are you able to advise the vertical datum for the peak stages on the attached map? Thank you in advance for your time!

Rachel Tracey, P.E.
Senior Project Engineer
ATWELL, LLC
239.939.5490 Office
239.898.2984 Mobile
10511 Six Mile Cypress Pkwy | Ste. 101 | Fort Myers, FL 33966
www.atwell.com (-> www.atwell-group.com)

Appendix C: LAMSID Allowable Discharge Rate

3. **Maximum Discharge Criteria:** Allowable discharge limits apply to all developments and/or road improvements as defined in the current LA-MSID Water Control Plan as summarized below:

    - All developments within the Lehigh Acres Municipal Services Improvement District shall be limited to a maximum discharge rate of **30.1 CSM (cubic feet per second per square mile)** for the 25-year, 3- day SFWMD design storm event, unless otherwise approved by the LA-MSID Board of Commissioners.

      Note: As the minimum bleeder diameter is 3 inches, exceedance of the maximum 30.1 CSM discharge rate is acceptable for systems where a single 3-inch diameter bleeder is proposed as the sole outfall capable of containing the 25-year, 3-day design storm within the proposed development.

    - **Culvert Design Criteria:** Discharge pipes shall be reinforced concrete pipe (RCP) unless approved otherwise by the District Engineer and District Manager.

      Discharge culvert sizes, locations, and elevations are subject to the District Engineer's review and LA-MSID's approval. The discharge orifice invert elevation shall be above the control elevation in the receiving LA-MSID water management facility.

      Pipe culvert ends shall be blended/mitered to match the existing canal slope (or other receiving LA-MSID water management facility) so as not to extend into the effective flow cross-sectional area. Erosion control (such as rip-rap) must be placed per FDOT Specifications at the culvert outlet to prevent erosion to the receiving LA-MSID water management facility's bank. Discharge culverts within the District's rights-of-way must be clearly marked with a sign or marker approved by District Staff, shall be maintained by the project owner or association, and must have legal rights for construction, use, maintenance, and replacement.

      All abandoned Asbestos Cement (AC) pipe is required to be removed from LA-MSID Canal rights-of-way. Abandoned in place will not be allowed on District owned property.

4. **Minimum Design Elevation Criteria:** The Drainage Calculations shall include stormwater modeling of design storm events to demonstrate compliance with the minimum design elevation criteria below, which shall include assurance of reasonable peak-stage recovery times and consideration of tailwater conditions:

    - **Minimum Road & Parking Track Elevations:**
        - Above the 10-year, 1-day design storm peak stage elevation
        - Assure reasonable stage recovery times

    - **Minimum Perimeter Berm Elevation:**
        - Above the 25-year, 3-day design storm peak stage elevation

    - **Minimum Finished Floor Elevations:**
        - Above the 100-year, 3-day design storm peak stage elevation
        - Assure consideration of computed and/or previously experienced high-water levels external to the project

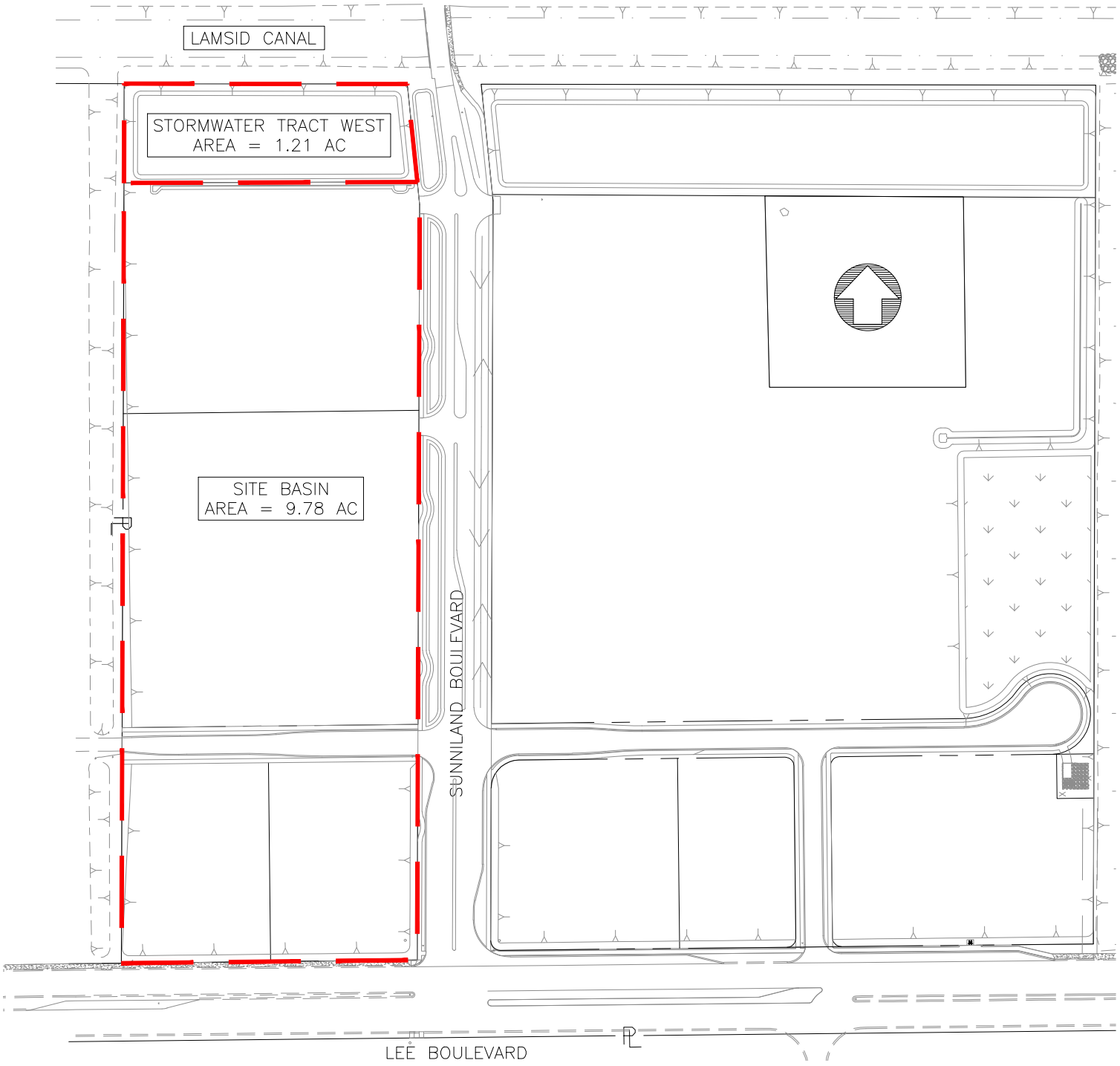
    Note: The "Peak Stage Elevation" map can be referenced as a guidance-only source for reviewing previously documented experienced high-water levels external to the project; however, data is generalized and not available at all locations. Localized drainage issues can impact anticipated system recovery times. The design engineer shall be responsible for the design elevation criteria determination.

Appendix D: Basin Map and Stages

Appendix D: Stages & Summary

	West Basin	East Basin- Scenario 1 with Oil Well	East Basin- Scenario 2 without Oil Well
Peak 10 Year, 1 Day	23.10	23.14	23.09
Peak 25 Year, 3 Day	23.55	23.33	23.25
Peak 25 Year, 3 Day Back to Back Events	N/A, recovers	23.38	23.28
Peak 100 Year, 3 Day/Zero Discharge	24.32	23.88	23.75
Minimum Pavement Elevation (10 year)	23.10	23.15	23.15
Minimum Perimeter Berm Elevation (25 year)	23.6	23.4	23.4
Minimum Finished Floor Elevation (100 year)	24.50	24.50	24.50
Basin Area (ac)	10.99	19.27 ac plus 1.60 ac oil well historic flow (19.27 ac held for discharge and bleed down allowable calcs to be conservative)	19.27
Allowable Discharge (cfs)	0.52	0.91	0.91
Provided Discharge (cfs)	0.44	0.89	0.88
Allowable Bleed Down (ac-ft)	0.46	0.80	0.80
Provided Bleed Down (ac-ft)	N/A, Min 3" bleeder	0.22	0.22

Note 1. East Basin Scenario 2 is less than scenario 1, therefore scenario 1 stages held. Site will meet requirement in both conditions.



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RACHEL J. TRACEY
P.E. LIC. #85322

WEST BASIN MAP

SUNNILAND COMMONS

LEE COUNTY, FL

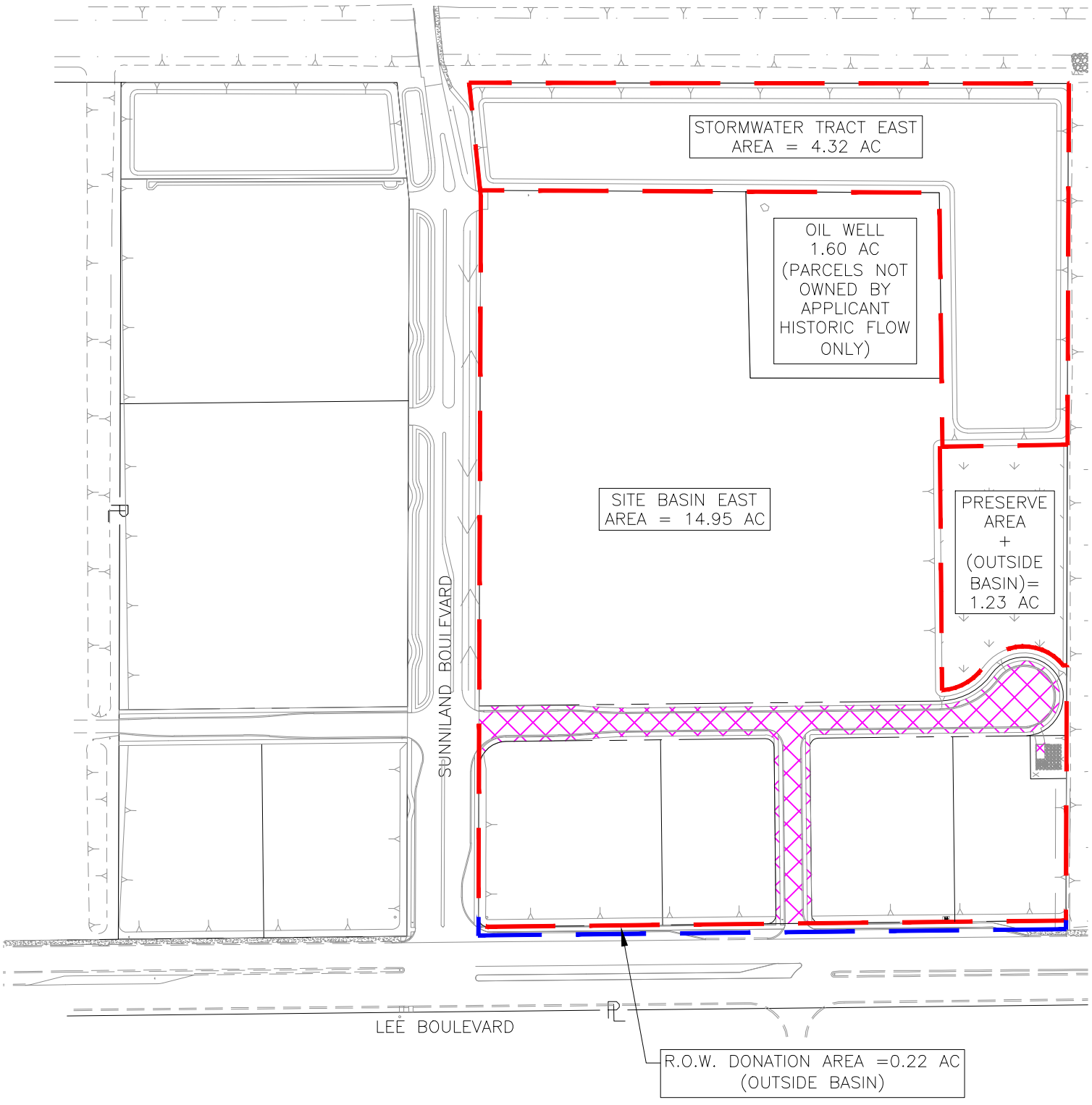
COMPLETION DATE:	PROJECT:	DRAFTED BY:	DESIGNED BY:	REVIEWED BY:	SHEET:
08-29-25	8844	KG	KG	RJT	01

S:\Jobs\88xx\8844\Engineering\EXHIBITS\8844-WEST BASIN MAP.dwg, 9/15/2025 5:26:35 AM, KEVIN GONZALEZ, ATWELL, LLC

BASIN AREA = PARCEL AREA – PRESERVE/BUFFER AREA – R.O.W. DONATION AREA (LEE BLVD.) =
20.72 AC–1.23 AC–0.22 AC= 19.27 AC

HISTORIC FLOW OIL WELL = 1.60 AC

TOTAL = 19.27 AC + 1.60 AC = 20.87 AC



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EAST BASIN MAP WITH HISTORIC FLOW (OIL WELL)

SUNNILAND COMMONS

LEE COUNTY, FL

COMPLETION DATE:	PROJECT:	DRAFTED BY:	DESIGNED BY:	REVIEWED BY:	SHEET:
08–29–25	8844	KG	KG	RJT	01

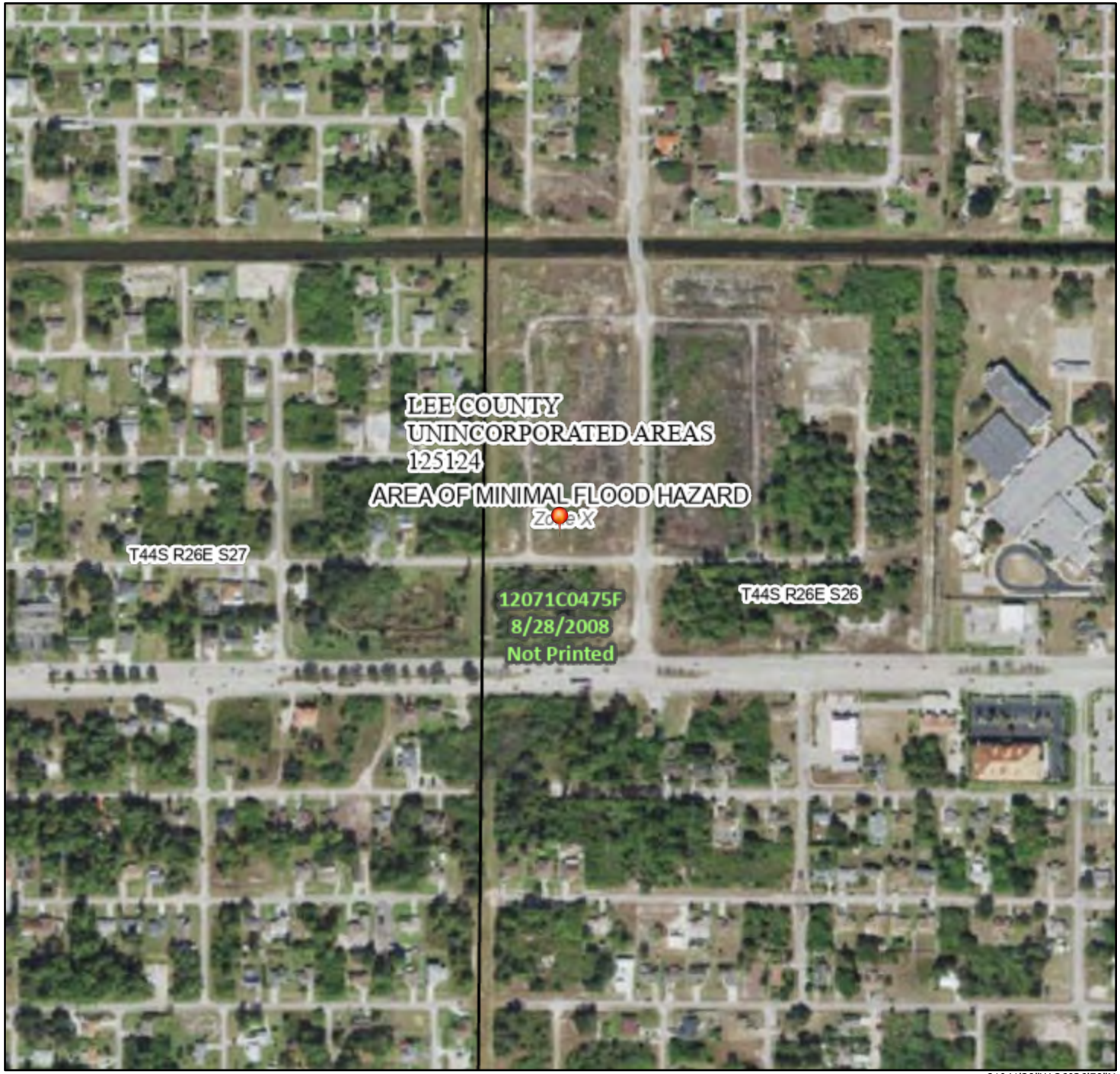
S:\Jobs\88xx\8844\Engineering\EXHIBITS\8844-EAST BASIN MAP WITH HISTORIC BASIN FLOW.dwg, 9/22/2025 3:43:41 PM, KEVIN GONZALEZ, ATWELL, LLC

Appendix E: FEMA FIRMette

National Flood Hazard Layer FIRMette

FEMA

81°41'58"W 26°37'22"N



81°41'20"W 26°36'50"N

Feet

0 250 500 1,000 1,500 2,000

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/6/2025 at 6:05 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix F: NOAA Rainfall Data

NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES: FL

Data description

Data type: Precipitation depth **Units:** English **Time series type:** Partial duration

Select location

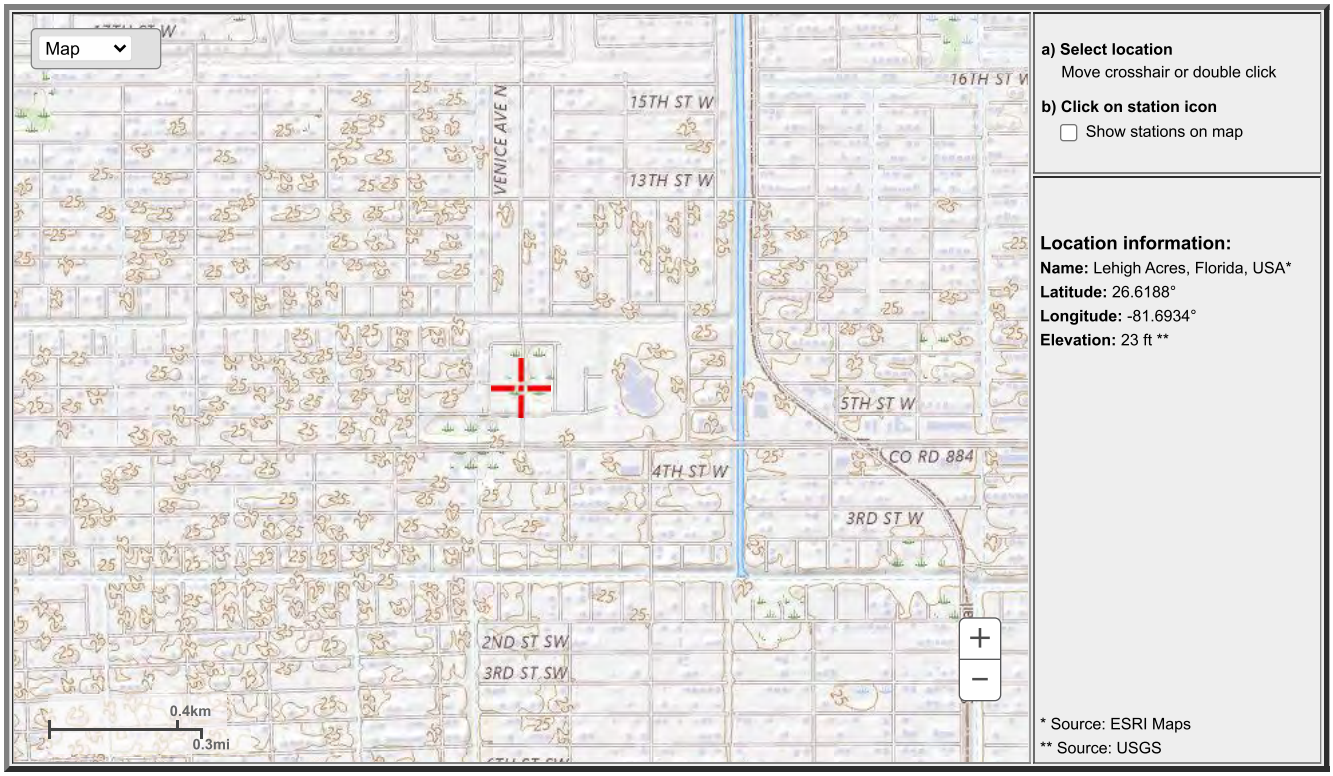
1) Manually:

a) By location (decimal degrees, use "-" for S and W): Latitude: Longitude: Submit

b) By station (list of FL stations): Select station

c) By address 3713 5th st west lehigh acres, fl

2) Use map:



POINT PRECIPITATION FREQUENCY (PF) ESTIMATES

WITH 90% CONFIDENCE INTERVALS AND SUPPLEMENTARY INFORMATION
NOAA Atlas 14, Volume 9, Version 2

PF tabular | Print page

PDS-based precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	**0.549** (0.449-0.684)	**0.619** (0.505-0.771)	**0.731** (0.594-0.914)	**0.823** (0.666-1.04)	**0.950** (0.741-1.24)	**1.05** (0.797-1.38)	**1.14** (0.840-1.56)	**1.24** (0.872-1.75)	**1.36** (0.924-1.99)	**1.46** (0.962-2.17)
10-min	**0.804** (0.657-1.00)	**0.906** (0.739-1.13)	**1.07** (0.870-1.34)	**1.21** (0.975-1.52)	**1.39** (1.08-1.81)	**1.53** (1.17-2.03)	**1.67** (1.23-2.28)	**1.81** (1.28-2.56)	**2.00** (1.35-2.91)	**2.13** (1.41-3.18)
15-min	**0.981** (0.801-1.22)	**1.10** (0.901-1.38)	**1.30** (1.06-1.63)	**1.47** (1.19-1.85)	**1.70** (1.32-2.20)	**1.87** (1.42-2.47)	**2.04** (1.50-2.78)	**2.21** (1.56-3.12)	**2.43** (1.65-3.55)	**2.60** (1.72-3.88)
30-min	**1.55** (1.27-1.93)	**1.75** (1.42-2.18)	**2.06** (1.68-2.58)	**2.32** (1.88-2.92)	**2.68** (2.09-3.48)	**2.94** (2.24-3.90)	**3.21** (2.36-4.39)	**3.48** (2.46-4.92)	**3.84** (2.60-5.60)	**4.10** (2.71-6.12)
60-min	**2.06** (1.68-2.56)	**2.30** (1.88-2.87)	**2.70** (2.20-3.38)	**3.04** (2.46-3.82)	**3.50** (2.74-4.57)	**3.86** (2.95-5.13)	**4.23** (3.11-5.78)	**4.59** (3.24-6.49)	**5.08** (3.45-7.43)	**5.45** (3.60-8.14)
2-hr	**2.56** (2.10-3.17)	**2.86** (2.34-3.54)	**3.35** (2.74-4.16)	**3.76** (3.06-4.70)	**4.34** (3.41-5.62)	**4.78** (3.67-6.31)	**5.24** (3.88-7.12)	**5.70** (4.05-8.02)	**6.33** (4.32-9.20)	**6.80** (4.52-10.1)
3-hr	**2.78** (2.29-3.43)	**3.11** (2.56-3.84)	**3.66** (3.00-4.53)	**4.13** (3.36-5.14)	**4.79** (3.78-6.19)	**5.31** (4.09-6.99)	**5.84** (4.35-7.92)	**6.40** (4.56-8.97)	**7.15** (4.90-10.4)	**7.73** (5.16-11.4)
6-hr	**3.10** (2.56-3.80)	**3.54** (2.92-4.33)	**4.27** (3.51-5.25)	**4.90** (4.01-6.06)	**5.82** (4.62-7.51)	**6.55** (5.08-8.60)	**7.31** (5.48-9.89)	**8.11** (5.83-11.3)	**9.21** (6.36-13.3)	**10.1** (6.77-14.8)
12-hr	**3.41**	**4.01**	**5.04**	**5.94**	**7.25**	**8.31**	**9.42**	**10.6**	**12.2**	**13.5**

	(2.83-4.15)	(3.32-4.88)	(4.16-6.15)	(4.88-7.29)	(5.79-9.33)	(6.48-10.9)	(7.10-12.7)	(7.67-14.8)	(8.52-17.6)	(9.16-19.7)
24-hr	**3.89** (3.25-4.71)	**4.58** (3.82-5.54)	**5.79** (4.81-7.03)	**6.89** (5.69-8.41)	**8.53** (6.89-11.0)	**9.91** (7.79-12.9)	**11.4** (8.64-15.3)	**13.0** (9.45-18.0)	**15.2** (10.7-21.8)	**17.0** (11.6-24.6)
2-day	**4.67** (3.92-5.61)	**5.34** (4.48-6.42)	**6.58** (5.49-7.93)	**7.74** (6.43-9.39)	**9.55** (7.78-12.3)	**11.1** (8.81-14.5)	**12.8** (9.81-17.2)	**14.7** (10.8-20.3)	**17.4** (12.3-24.8)	**19.6** (13.4-28.2)
3-day	**5.17** (4.35-6.18)	**5.96** (5.01-7.14)	**7.38** (6.18-8.87)	**8.68** (7.23-10.5)	**10.7** (8.68-13.6)	**12.3** (9.78-15.9)	**14.1** (10.8-18.8)	**16.0** (11.8-22.0)	**18.8** (13.3-26.7)	**21.0** (14.5-30.2)
4-day	**5.61** (4.72-6.69)	**6.50** (5.47-7.76)	**8.06** (6.77-9.66)	**9.47** (7.90-11.4)	**11.5** (9.40-14.6)	**13.3** (10.5-17.0)	**15.1** (11.6-20.0)	**17.0** (12.6-23.3)	**19.8** (14.1-27.9)	**22.0** (15.2-31.4)
7-day	**6.90** (5.84-8.18)	**7.87** (6.65-9.34)	**9.55** (8.04-11.4)	**11.0** (9.23-13.2)	**13.1** (10.7-16.5)	**14.9** (11.9-19.0)	**16.7** (12.9-21.9)	**18.6** (13.8-25.2)	**21.3** (15.2-29.8)	**23.4** (16.2-33.3)
10-day	**8.10** (6.87-9.57)	**9.10** (7.71-10.8)	**10.8** (9.12-12.8)	**12.3** (10.3-14.7)	**14.4** (11.8-17.9)	**16.1** (12.9-20.4)	**17.9** (13.8-23.3)	**19.7** (14.7-26.6)	**22.3** (16.0-31.1)	**24.3** (16.9-34.5)
20-day	**11.5** (9.81-13.5)	**12.7** (10.8-14.9)	**14.6** (12.4-17.3)	**16.2** (13.7-19.3)	**18.4** (15.1-22.6)	**20.1** (16.1-25.1)	**21.8** (16.9-28.1)	**23.5** (17.5-31.3)	**25.7** (18.5-35.4)	**27.4** (19.2-38.6)
30-day	**14.4** (12.3-16.8)	**15.8** (13.5-18.5)	**18.1** (15.4-21.2)	**19.9** (16.9-23.5)	**22.3** (18.2-27.1)	**24.1** (19.3-29.8)	**25.8** (20.0-32.9)	**27.4** (20.5-36.2)	**29.5** (21.2-40.3)	**30.9** (21.8-43.4)
45-day	**18.0** (15.5-21.0)	**19.9** (17.0-23.2)	**22.7** (19.4-26.5)	**24.9** (21.1-29.3)	**27.7** (22.7-33.4)	**29.7** (23.8-36.5)	**31.5** (24.5-39.9)	**33.2** (24.8-43.5)	**35.1** (25.3-47.7)	**36.4** (25.7-50.9)
60-day	**21.2** (18.2-24.6)	**23.4** (20.1-27.2)	**26.8** (22.9-31.2)	**29.4** (25.0-34.4)	**32.6** (26.7-39.1)	**34.8** (28.0-42.6)	**36.8** (28.7-46.5)	**38.6** (28.9-50.4)	**40.6** (29.3-54.9)	**41.8** (29.6-58.3)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

Estimates from the table in CSV format: Precipitation frequency estimates Submit

US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
Office of Water Prediction (OWP)
1325 East West Highway
Silver Spring, MD 20910
Page Author: HDSC webmaster
Page last modified: April 21, 2017

Appendix G: SFWMD Rainfall Data

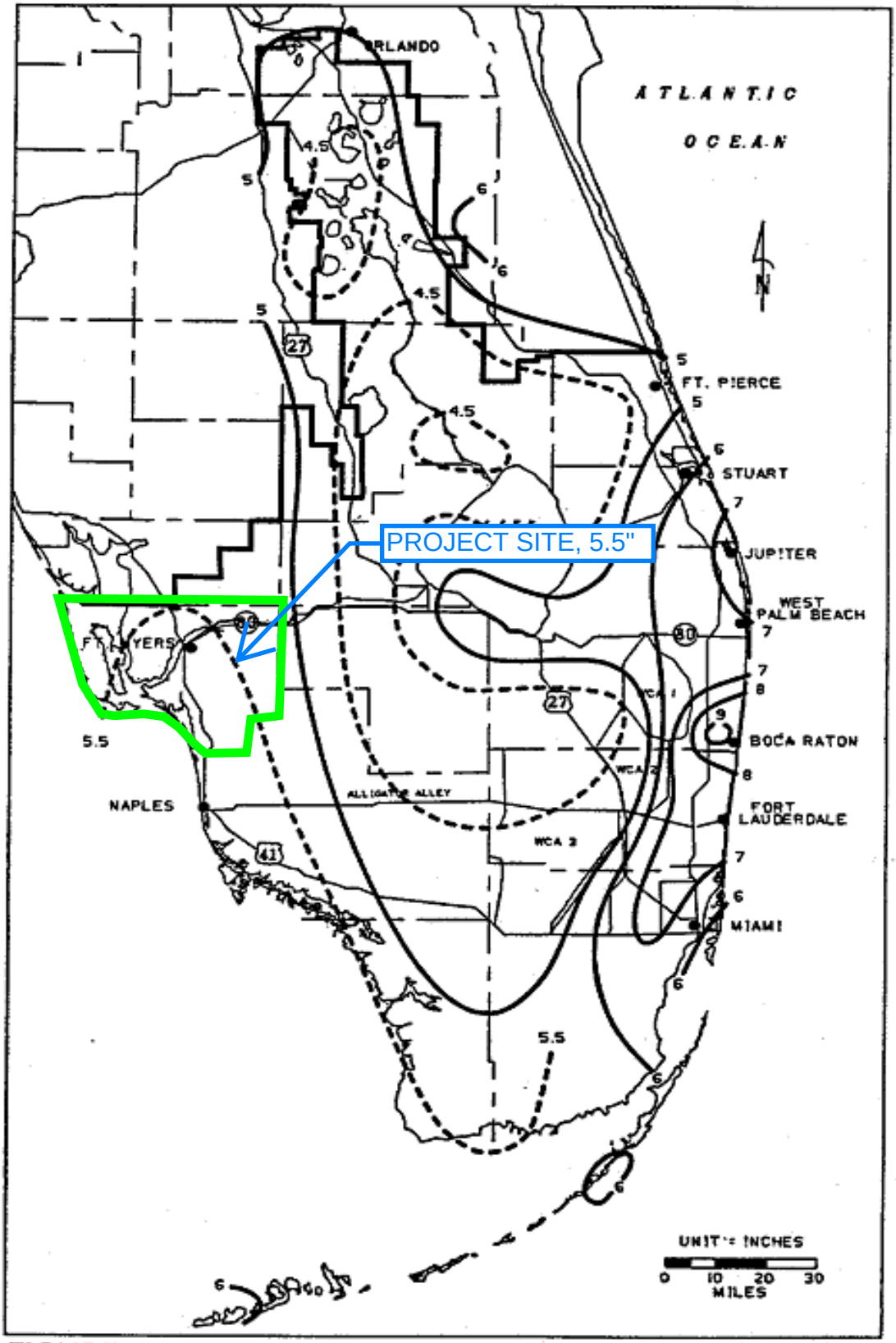


FIGURE C-3. 1-DAY RAINFALL: 5-YEAR RETURN PERIOD

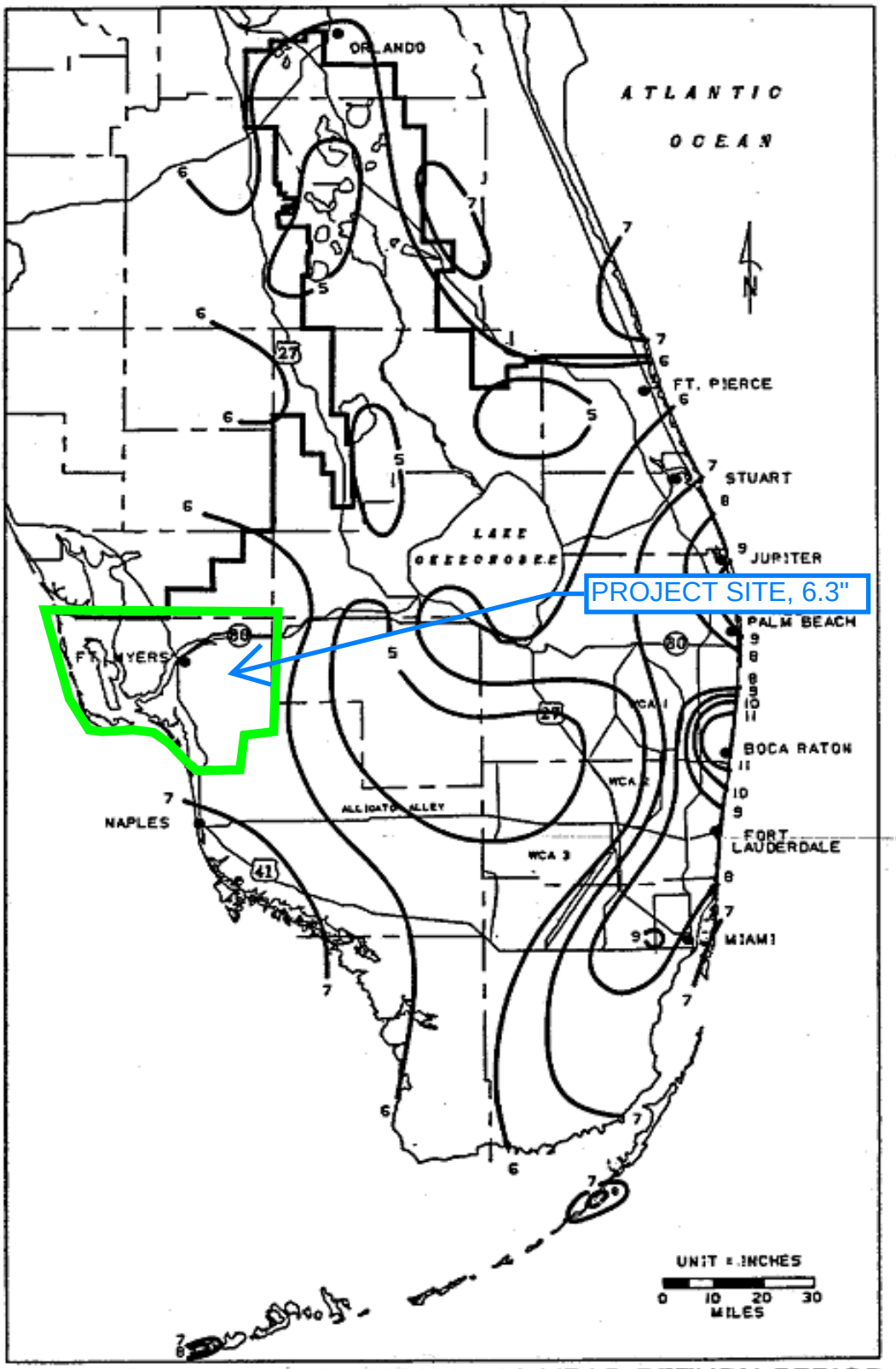


FIGURE C-4. 1-DAY RAINFALL: 10-YEAR RETURN PERIOD

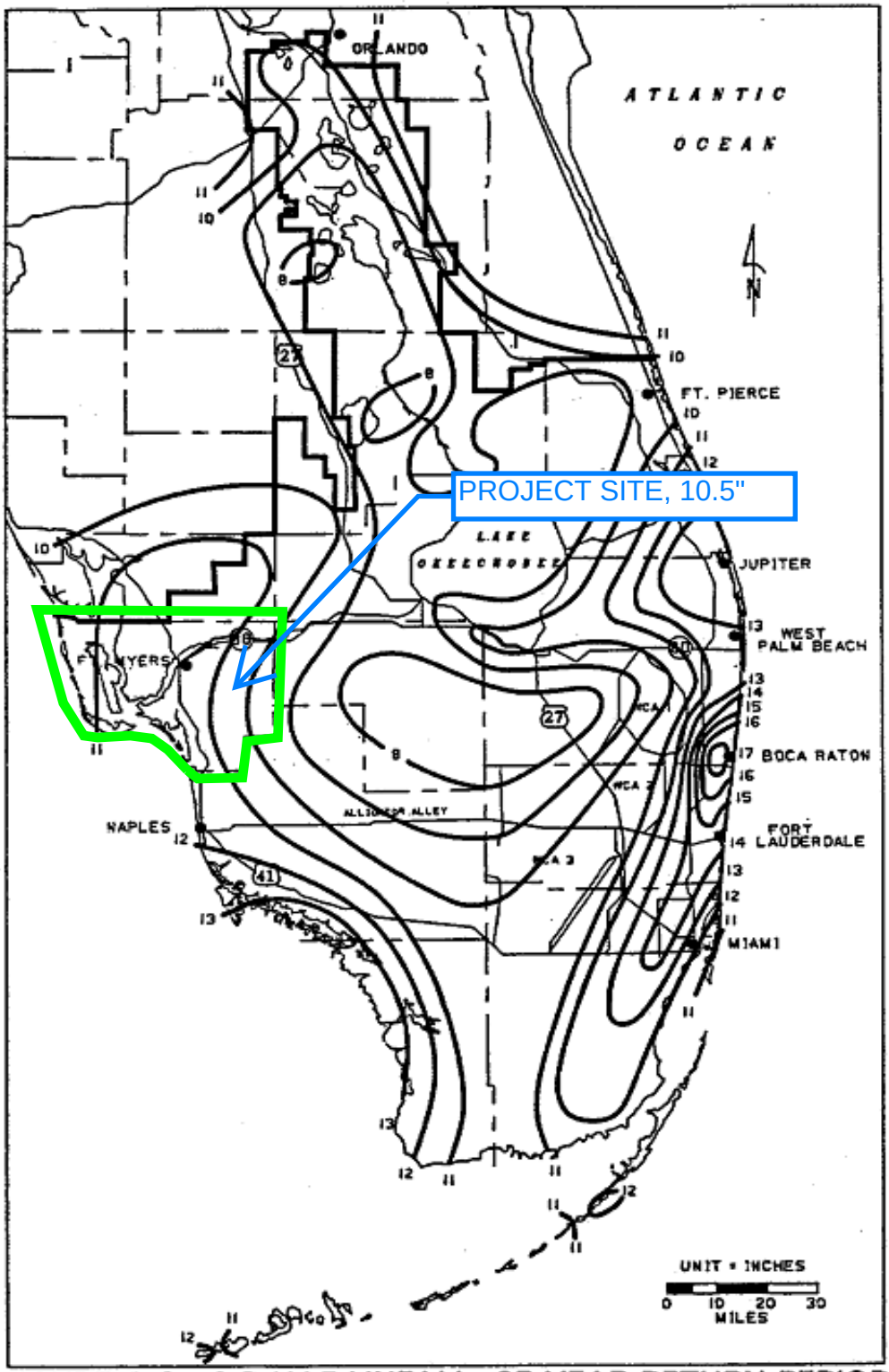


FIGURE C-8. 3-DAY RAINFALL: 25-YEAR RETURN PERIOD

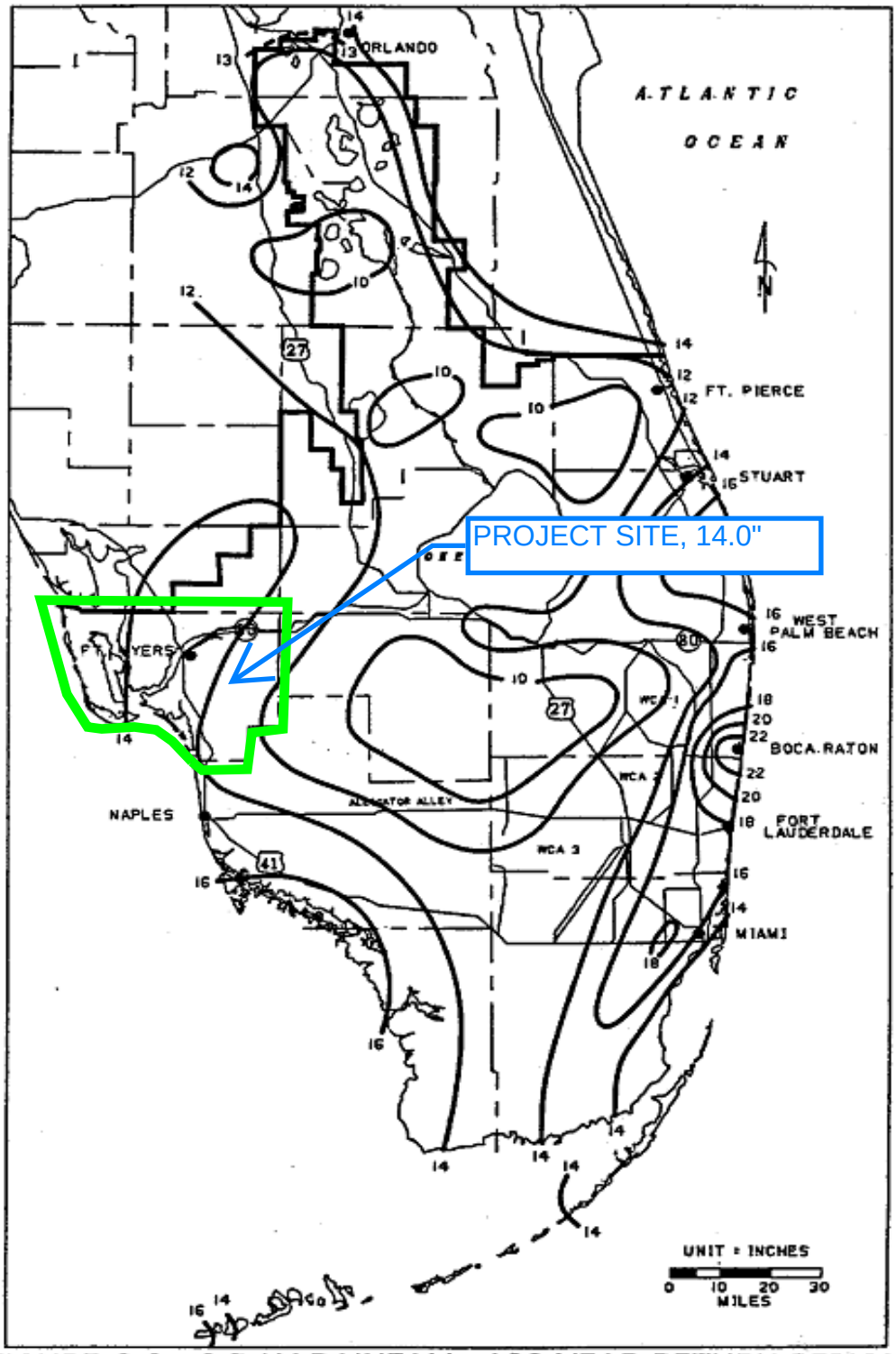


FIGURE C-9. 3-DAY RAINFALL: 100-YEAR RETURN PERIOD

Appendix H: Basin West

Appendix H: West Basin Design

H.1 Stormwater Inputs

- Basin Exhibit
- Land Use Breakdown – Buildout and Site Data
- Water Quantity Calculations
- Water Quality Calculations
- Tc, Allowable Discharge, and Bleed Down Calculations

H.2 StormWise Input Summary: 10 Year Storm Event (TW Differs between 10 year and 25 year)

H.3 10 Year, 1 Day Node Max

H.4 StormWise Input Summary: 25 Year Storm Event (TW Differs between 10 year and 25 year)

H.5 25 Year, 3 Day Node Max

H.6 25 Year, 3 Day Link Max

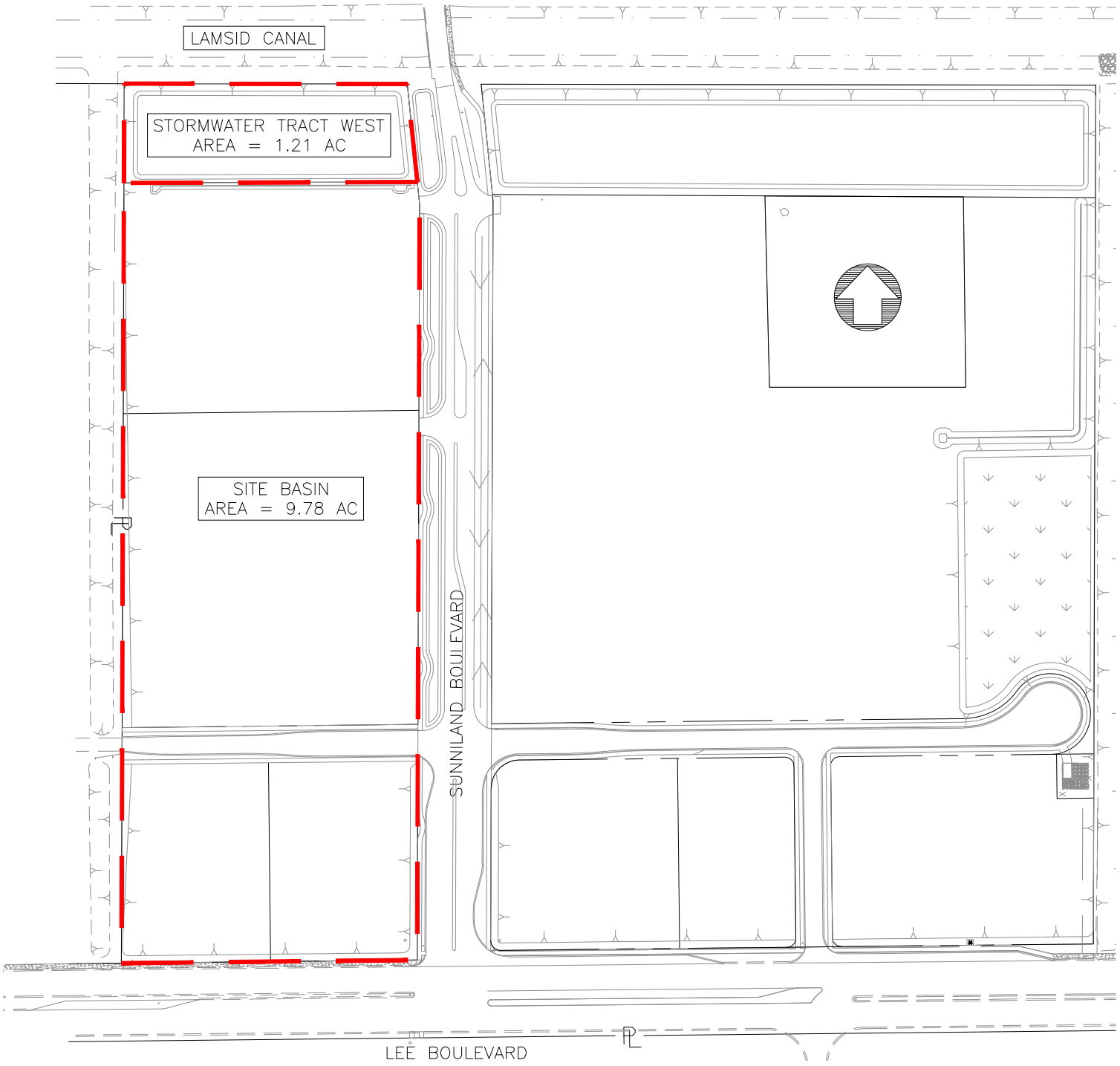
H.7 25 Year, 3 Day Node Time Series

H.8 100 Year, 3 Day, Zero Discharge Node Max

H.9 100 Year, 3 Day, Link Discharge

H. 10 Nutrient Loading Report

Basin Exhibit



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WEST BASIN MAP

SUNNILAND COMMONS

LEE COUNTY, FL

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Land Use Breakdown

Sunniland Commons West Basin (Lots 1 to 4, 5th St ROW, and Stormwater Tract 1)						
Lots 1 to 4	Lot Area (acres)	Impervious Area (Taken as 80% of Lot)	Building (Taken as 40% of Impervious Area**)	Pavement/Concrete	Open Space (acres)	Percent Impervious Check
Lot 1	2.88	2.30	0.92	1.38	0.58	80.0%
Lot 2	3.94	3.15	1.26	1.89	0.79	80.0%
Lot 3	1.25	1.00	0.40	0.60	0.25	80.0%
Lot 4	1.25	1.00	0.40	0.60	0.25	80.0%
Total	9.32	7.46	2.98	4.47	1.86	
**Taken as 40% for potential for large box store and storage use						

Lots 1 to 4	Impervious Area	Building Area	Pavement/Concrete	Open Space	Percent Impervious Check
	7.46	2.98	4.47	1.86	80.0%

5th Street ROW		
Pavement/Concrete	0.40	ac
Open Space	0.06	ac
Total	0.46	ac

Stormwater Tract 1		
Retention Bottom	0.88	ac
Retention Bank	0.13	ac
Open Space	0.20	ac
Total	1.21	ac

Totals		
Building Area (Future Parcels)	2.982	ac
Pavement/Concrete (Pavement ROW, Sidewalk ROW, Pavement/Concrete Parcels)	4.874	ac
Dry Retention Bottom	0.880	ac
Dry Retention Bank	0.130	ac
Open Space	2.124	ac
Total	10.990	ac

Water Quantity Calculations

Sunniland Commons - Overall West Total Basin

Water Quantity Spreadsheet	
Lake Control (FT-NAVD)	19.00
Dry Detention Bottom (FT-NAVD)	20.00
Lake-TOB (FT-NAVD)	22.00
Parking (FT-NAVD)	23.00
Roads and 2nd Break (FT-NAVD)	24.50
Finished Floor (FT-NAVD)	26.00
Lake	
Area (AC)	0.000
Dry Detention Bottom	
Area (AC)	0.880
Dry Detention Bank	
Area (AC)	0.130
Open	
Area (AC)	2.124
Parking and Roadway	
Area (AC)	4.874
FF	
Area (AC)	2.982
Total Acres	10.990

Stage (FT-NAVD)	Area (AC)	Storage (AC-FT)
19.00	0.00	0.00
20.00	0.88	0.00
22.00	1.01	1.89
23.00	4.51	4.65
24.50	7.48	13.64
26.00	8.01	25.25

Impervious Area

FF + Parking and Roadway
7.86 ac
71.5%

DCIA

Site is taken as 100% DCIA
7.86 ac
100.0%

Curve Number

CN= 1000 / (10 + Sd)
CN= 1000 / 10 + 6.8
CN= 60

Soil Storage

Soil Compaction Factor= 25%
Depth to Water Table= 3.5 ft.
Soil Storage for pervious areas = Sd = 6.8 Inches

Depth to Water Table	Natural Available Storage	Developed Available Storage
0	0.00	0
1	0.60	0.45
1.5	1.50	1.10
2	2.50	1.88
2.5	4.50	3.40
3	6.60	4.95
3.5	8.90	6.80
4	10.90	8.18

Sunniland Commons - Site Basin West

Water Quantity Spreadsheet	
Lake Control (FT-NAVD)	19.00
Dry Detention Bottom (FT-NAVD)	20.00
Lake-TOB (FT-NAVD)	22.00
Parking (FT-NAVD)	23.00
Roads and 2nd Break (FT-NAVD)	24.50
Finished Floor (FT-NAVD)	26.00
Lake	
Area (AC)	0.000
Dry Detention Bottom	
Area (AC)	0.000
Dry Detention Bank	
Area (AC)	0.000
Open	
Area (AC)	1.924
Parking and Roadway	
Area (AC)	4.874
FF	
Area (AC)	2.982
Total Acres	9.780

Stage (FT-NAVD)	Area (AC)	Storage (AC-FT)
19.00	0.00	0.00
20.00	0.00	0.00
22.00	0.00	0.00
23.00	3.40	0.00
24.50	6.32	7.29
26.00	6.80	17.12

Impervious Area

FF + Parking and Roadway
7.86 ac
80.3%

DCIA

Site is taken as 100% DCIA
7.86 ac
100.0%

Curve Number

CN= 1000 / (10 + Sd)
CN= 1000 / 10 + 6.8
CN= 60

Soil Storage

Soil Compaction Factor= 25%
Depth to Water Table= 3.5 ft.
Soil Storage for pervious areas = Sd = 6.8 Inches

Depth to Water Table	Natural Available Storage	Developed Available Storage
0	0.00	0
1	0.60	0.45
1.5	1.50	1.10
2	2.50	1.88
2.5	4.50	3.40
3	6.60	4.95
3.5	8.90	6.80
4	10.90	8.18

Sunniland Commons - Stormwater Tract West

Water Quantity Spreadsheet	
Lake Control (FT-NAVD)	19.00
Dry Detention Bottom (FT-NAVD)	20.00
Lake-TOB (FT-NAVD)	22.00
Parking (FT-NAVD)	23.00
Roads and 2nd Break (FT-NAVD)	24.50
Finished Floor (FT-NAVD)	26.00
Lake	
Area (AC)	0.000
Dry Detention Bottom	
Area (AC)	0.880
Dry Detention Bank	
Area (AC)	0.130
Open	
Area (AC)	0.200
Parking and Roadway	
Area (AC)	0.000
FF	
Area (AC)	0.000
Total Acres	1.210

Stage (FT-NAVD)	Area (AC)	Storage (AC-FT)
19.00	0.00	0.00
20.00	0.88	0.00
22.00	1.01	1.89
23.00	1.11	2.95
24.50	1.16	4.65
26.00	1.21	6.43

Impervious Area

FF + Parking and Roadway
0.00 ac
0.0%

DCIA

0.00 ac

Curve Number

CN= 1000 / (10 + Sd)
CN= 1000 / 10 + 6.8
CN= 60

Soil Storage

Soil Compaction Factor= 25%
Depth to Water Table= 3.5 ft.
Soil Storage for pervious areas = Sd = 6.8 Inches

Depth to Water Table	Natural Available Storage	Developed Available Storage
0	0.00	0
1	0.60	0.45
1.5	1.50	1.10
2	2.50	1.88
2.5	4.50	3.40
3	6.60	4.95
3.5	8.90	6.80
4	10.90	8.18

Water Quality Calculations

Basin West

First Inch of Runoff Criteria:

Commercial Basin Area: 10.99 acres

Water Quality Requirement= 1.00 inches over entire area

10.99 x (1.00 in) x (1 ft/12 in) = **0.92 ac-ft**

% Impervious Criteria:

a) Site Area= Project Area - Lake - Roof

Site Area= 10.99 - 0.00 - 2.982

Site Area= 8.01 acres

b) Imp Area= Site Area - Pervious Area

Imp Area= 8.01 - 3.134

Imp Area= 4.87

c) Vol. Stor. Req'd= 2.5 in * (1 ft/12in) * (Imp. Area/Site Area) *(Project Area-Lake)

Vol. Stor. Req'd= 2.5 in * (1 ft/12in) * 0.61 * 10.99

Vol. Stor. Req'd= **1.39 ac-ft**

Water Quality Volume Used= Greatest of "First Inch of Runoff" or " % Impervious"

Water Quality Volume Used= **1.39 ac-ft** **Percent Impervious Criteria Governs**

150% Requirement:

1.39 ac-ft x 1.5 = **2.09 ac-ft**

25% Credit for Dry Detention

2.09 ac-ft x 0.75 = **1.57 ac-ft**

Actual Water Quality Treated in Dry Detention

Stage (ft)	Area (ac)	Storage (ac-ft)
20.00	0.88	0.00
21.68	**0.99**	**1.59**
22.00	1.01	1.89

Volume Treated in dry detention area 1= **1.59 ac-ft** per stage/storage at structure

Tc, Allowable Discharge, and Bleed Down Calculations

Sunniland Commons

Time of Concentration Calculation
tc=2*(Total Basin Area/640)^.5

Item	Site Basin West	Stormwater Tract West
Area (ac)	9.780	1.210
Tc	14.8	5.2
		*Use min 10 min

Allowable Discharge

Site Discharges to the North to the Lehigh Acres Municipal Services Improvement District (LAMSID) Canal.
Per Section 4.28 of LAMSID Permitting Policies, Design Criteria, the maximum allowable discharge is 30.1 CSM (cubic feet per second per square mile)

30.1 CSM =	0.047	cfs/acre
SWM Basin Area =	10.99	acres
Allowable Discharge =	0.52	cfs

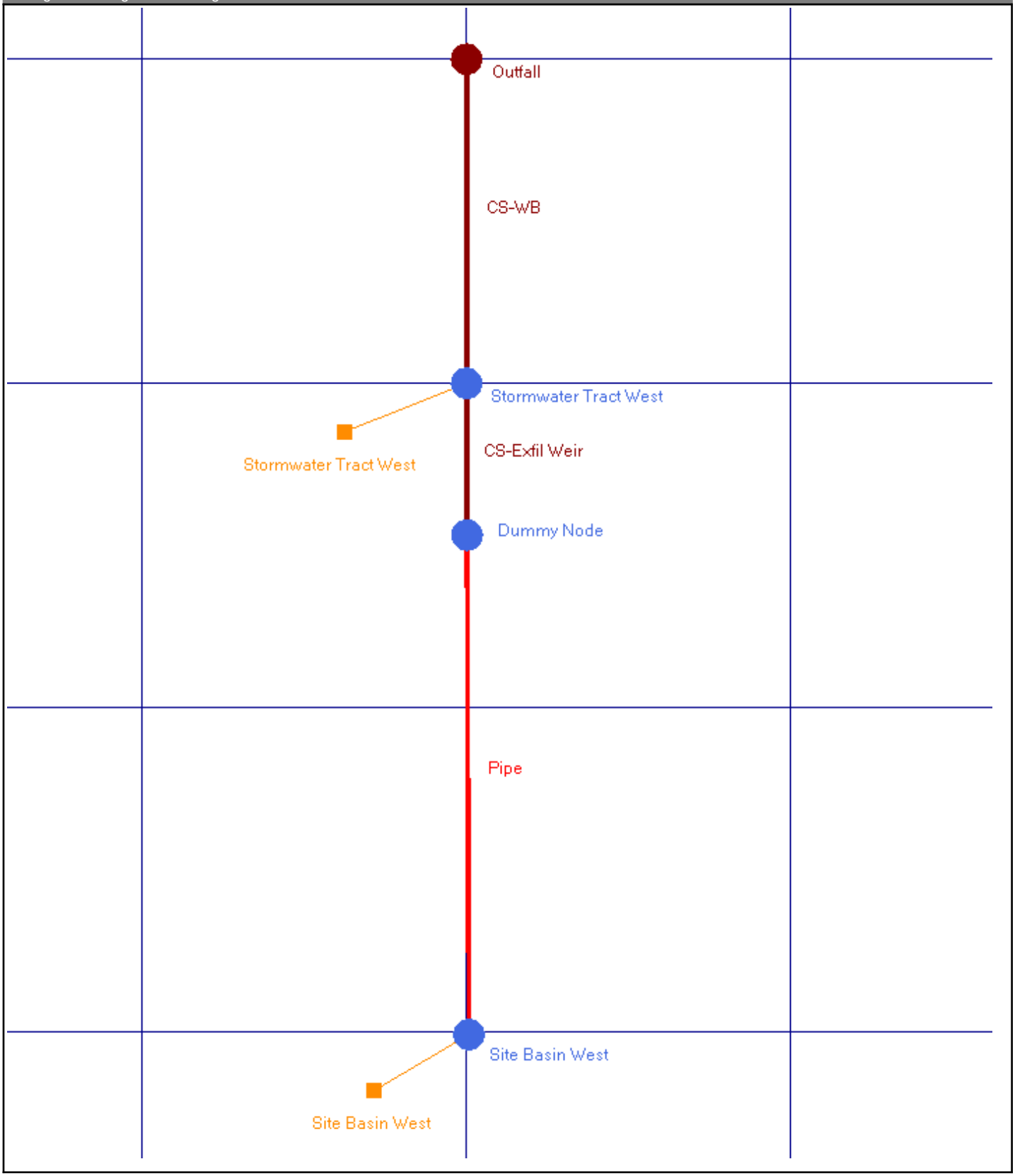
Bleed Down

No more than 1/2" in 24 hours
0.5 in*1 ft/12 in*Basin Area

Bleed Down	0.46	ac-ft (Note: N/A = 3" Bleeder)

StormWise Input Summary: 10 Year Storm Event (TW Differs between 10 year and 25 year)

Background Image: Nodal Diagram



Node: Dummy Node

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Comment: Dummy Node, No storage used. This node used to transition from pipe to drop structure

Node: Outfall

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

10 YEAR TAILWATER, SEE SWM REPORT FOR FURHTER DETAIL

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	19.50
0	0	0	360.0000	19.00

Comment:

Node: Site Basin West

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
20.00	0.0000	0
22.00	0.0010	44
23.00	3.4000	148104
24.50	6.3200	275299
26.00	6.8000	296208

Comment:

Node: Stormwater Tract West

Scenario: Scenario1
Type: Stage/Area

Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.99	0.0010	44
20.00	0.8800	38333
22.00	1.0100	43996
23.00	1.1100	48352
24.50	1.1600	50530
26.00	1.2100	52708

Comment:

Manual Basin: Site Basin West

Scenario: Scenario1
Node: Site Basin West
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 14.8000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 9.7800 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
9.7800	Site Basin West	Site Basin West	

Comment:

Manual Basin: Stormwater Tract West

Scenario: Scenario1
Node: Stormwater Tract West
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.2100 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
1.2100	Stormwater Tract West	Stormwater Tract West	

Comment:

Curve Number: 1 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
Site Basin West	Site Basin West	60.0
Stormwater Tract West	Stormwater Tract West	60.0

Impervious: 1 [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia/S [dec]	Ia Impervious [in]	Ia Pervious [in]
Site Basin West	100.00	100.00	0.00	0.00	0.000	0.000
Stormwater Tract West	0.00	0.00	0.00	0.00	0.000	0.000

Drop Structure Link: CS-Exfil Weir

Scenario:	Scenario1
From Node:	Dummy Node
To Node:	Stormwater Tract West
Link Count:	1
Pipe Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0000 ft
Length:	11.00 ft
FHWA Code:	1
Entr Loss Coef:	0.50
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe

Invert:	16.75 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe

Invert:	16.75 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	20.20 ft
Control Elevation:	19.00 ft
Max Depth:	1.80 ft
Max Width:	3.00 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS-WB		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	15.00 ft	Invert:	15.00 ft
From Node:	Stormwater Tract West	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	Outfall	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Pipe Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	55.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Circular	Op Table:	
Invert:	19.00 ft	Ref Node:	
Control Elevation:	19.00 ft	Discharge Coefficients	
Max Depth:	0.25 ft	Weir Default:	3.200
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Pipe Link: Pipe		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.57 ft	Invert:	15.57 ft
From Node:	Site Basin West	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	Dummy Node	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	1036.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Simulation: SFWMD 100YR-3 DAY

Scenario: Scenario1
Run Date/Time: 9/17/2025 8:13:39 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global

Rainfall Name: ~SFWMD-72
Rainfall Amount: 14.10 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 10YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/17/2025 8:20:16 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD
Rainfall Amount: 6.89 in
Storm Duration: 24.0000 hr

Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (1D):	100 ft2
Energy Switch (1D):	Energy

Comment:

Simulation: SFWMD 25YR-3 DAY

Scenario:	Scenario1
Run Date/Time:	9/17/2025 7:58:48 AM
Program Version:	StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:	
Extern Hydrograph Set:	
Curve Number Set:	1
Green-Ampt Set:	
Vertical Layers Set:	
Impervious Set:	1

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6		
Over-Relax Weight Fact:	0.5 dec	Ia/S:	0.20 dec
dZ Tolerance:	0.0010 ft		
Max dZ:	1.0000 ft	Smp/Man Basin Rain Opt:	Global

Link Optimizer Tol: 0.0001 ft

Rainfall Name: ~SFWMD-72
Rainfall Amount: 10.70 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 5 YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/17/2025 8:21:22 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
IA Recovery Time: 24.0000 hr

Max Iterations:	6
Over-Relax Weight Fact:	0.5 dec
dZ Tolerance:	0.0010 ft
Max dZ:	1.0000 ft
Link Optimizer Tol:	0.0001 ft

Ia/S:	0.20 dec
Smp/Man Basin Rain Opt:	Global
Rainfall Name:	~FLMOD
Rainfall Amount:	5.79 in
Storm Duration:	24.0000 hr
Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (1D):	100 ft2
Energy Switch (1D):	Energy

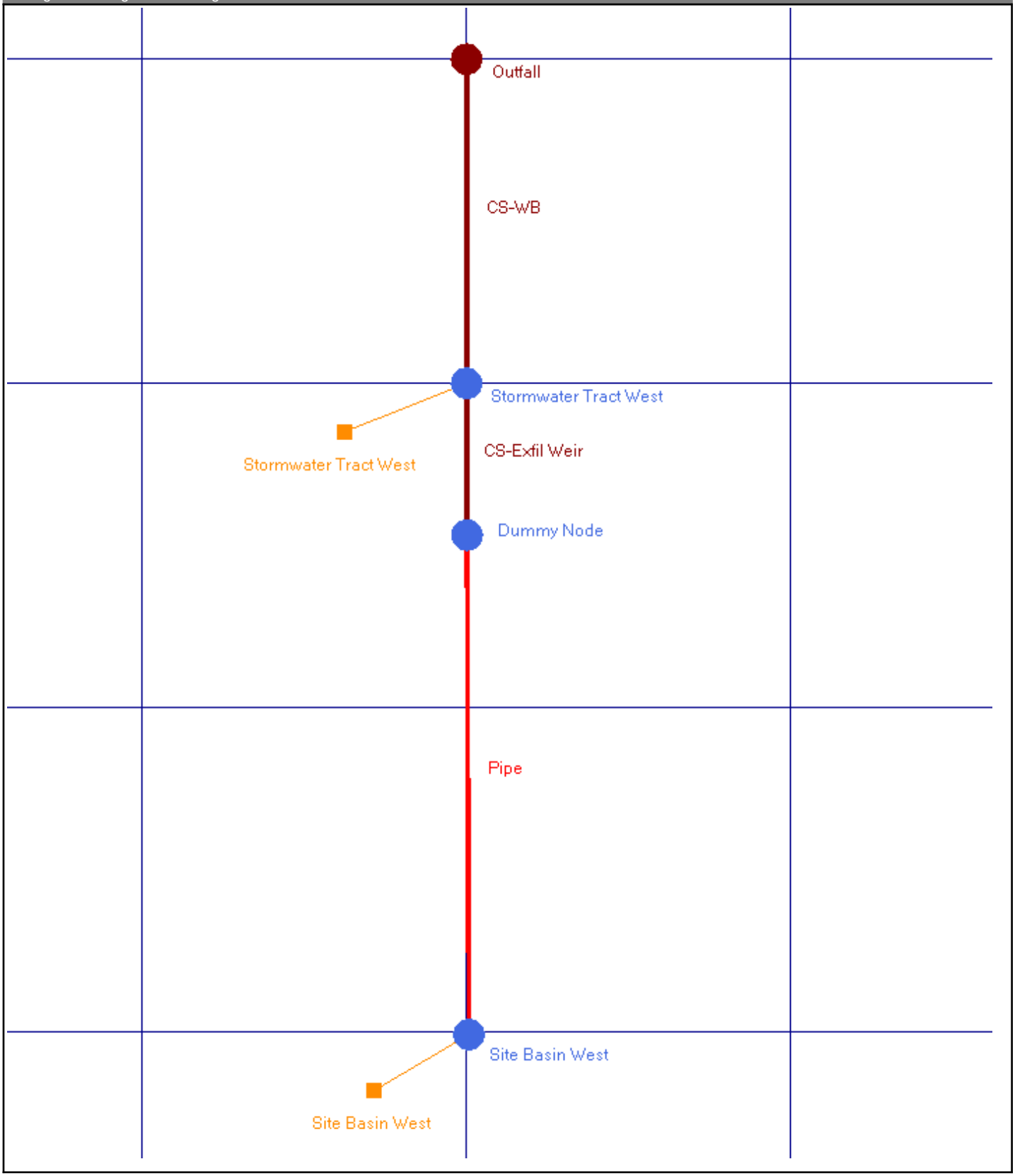
Comment:

5 Year, 1 Day Node Max and 10 Year, 1 Day Node Max

Sim	Node Name	Relative Time [hrs]	Maximum Stage [ft]	Time to Maximum Stage [hrs]
SFWMD 10YR-1 DAY	Site Basin West	359.2574	23.10	24.2182
SFWMD 10YR-1 DAY	Stormwater Tract West	359.2574	23.09	24.3211
SFWMD 5 YR-1 DAY	Site Basin West	359.2509	22.89	24.1724
SFWMD 5 YR-1 DAY	Stormwater Tract West	359.2509	22.88	24.2838

StormWise Input Summary: 25 Year Storm Event (TW Differs between 10 year and 25 year)

Background Image: Nodal Diagram



Node: Dummy Node

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Comment: Dummy Node, No storage used. This node used to transition from pipe to drop structure

Node: Outfall

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

25 YEAR TW, SEE ADDITIONAL DETAIL IN SWM REPORT

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	20.11
0	0	0	360.0000	19.00

Comment:

Node: Site Basin West

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
20.00	0.0000	0
22.00	0.0010	44
23.00	3.4000	148104
24.50	6.3200	275299
26.00	6.8000	296208

Comment:

Node: Stormwater Tract West

Scenario: Scenario1
Type: Stage/Area

Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.99	0.0010	44
20.00	0.8800	38333
22.00	1.0100	43996
23.00	1.1100	48352
24.50	1.1600	50530
26.00	1.2100	52708

Comment:

Manual Basin: Site Basin West

Scenario: Scenario1
Node: Site Basin West
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 14.8000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 9.7800 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
9.7800	Site Basin West	Site Basin West	

Comment:

Manual Basin: Stormwater Tract West

Scenario: Scenario1
Node: Stormwater Tract West
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.2100 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
1.2100	Stormwater Tract West	Stormwater Tract West	

Comment:

Curve Number: 1 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
Site Basin West	Site Basin West	60.0
Stormwater Tract West	Stormwater Tract West	60.0

Impervious: 1 [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia/S [dec]	Ia Impervious [in]	Ia Pervious [in]
Site Basin West	100.00	100.00	0.00	0.00	0.000	0.000
Stormwater Tract West	0.00	0.00	0.00	0.00	0.000	0.000

Drop Structure Link: CS-Exfil Weir

Scenario:	Scenario1
From Node:	Dummy Node
To Node:	Stormwater Tract West
Link Count:	1
Pipe Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0000 ft
Length:	11.00 ft
FHWA Code:	1
Entr Loss Coef:	0.50
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe

Invert:	16.75 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe

Invert:	16.75 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	20.20 ft
Control Elevation:	19.00 ft
Max Depth:	1.80 ft
Max Width:	3.00 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS-WB		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	15.00 ft	Invert:	15.00 ft
From Node:	Stormwater Tract West	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	Outfall	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Pipe Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	55.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Circular	Op Table:	
Invert:	19.00 ft	Ref Node:	
Control Elevation:	19.00 ft	Discharge Coefficients	
Max Depth:	0.25 ft	Weir Default:	3.200
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Pipe Link: Pipe		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.57 ft	Invert:	15.57 ft
From Node:	Site Basin West	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	Dummy Node	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	1036.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Simulation: SFWMD 100YR-3 DAY

Scenario: Scenario1
Run Date/Time: 9/2/2025 2:09:51 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global

Rainfall Name: ~SFWMD-72
Rainfall Amount: 14.10 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 10YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/15/2025 6:07:35 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global

Rainfall Name: ~FLMOD
Rainfall Amount: 6.89 in
Storm Duration: 24.0000 hr

Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (1D):	100 ft2
Energy Switch (1D):	Energy

Comment:

Simulation: SFWMD 25YR-3 DAY

Scenario:	Scenario1
Run Date/Time:	9/17/2025 7:58:48 AM
Program Version:	StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:	
Extern Hydrograph Set:	
Curve Number Set:	1
Green-Ampt Set:	
Vertical Layers Set:	
Impervious Set:	1

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6		
Over-Relax Weight Fact:	0.5 dec	Ia/S:	0.20 dec
dZ Tolerance:	0.0010 ft		
Max dZ:	1.0000 ft	Smp/Man Basin Rain Opt:	Global

Link Optimizer Tol: 0.0001 ft

Rainfall Name: ~SFWMD-72
Rainfall Amount: 10.70 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 5 YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/15/2025 6:07:52 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
IA Recovery Time: 24.0000 hr

Max Iterations:	6
Over-Relax Weight Fact:	0.5 dec
dZ Tolerance:	0.0010 ft
Max dZ:	1.0000 ft
Link Optimizer Tol:	0.0001 ft

Ia/S:	0.20 dec
Smp/Man Basin Rain Opt:	Global
Rainfall Name:	~FLMOD
Rainfall Amount:	5.79 in
Storm Duration:	24.0000 hr
Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (1D):	100 ft2
Energy Switch (1D):	Energy

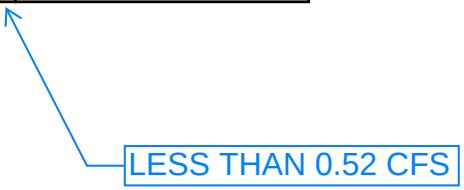
Comment:

25 Year, 3 Day Node Max

Sim	Node Name	Relative Time [hrs]	Maximum Stage [ft]	Time to Maximum Stage [hrs]
SFWMD 25YR-3 DAY	Site Basin West	359.2526	23.55	72.3155
SFWMD 25YR-3 DAY	Stormwater Tract West	359.2526	23.55	72.4606

25 Year, 3 Day Link Max

Sim	Link Name	Relative Time [hrs]	Maximum Flow Rate [cfs]	Time to Maximum Flow Rate [hrs
SFWMD 25YR-3 DAY	CS-WB	359.2526	0.44	68.1218



25 Year, 3 Day Node Time Series

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	0.0000	19.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	0.7501	20.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	1.5006	20.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	2.2502	20.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	3.0004	20.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	3.7503	20.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	4.5002	20.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	5.2509	20.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	6.0001	20.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	6.7506	20.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	7.5011	20.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	8.2505	20.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	9.0002	20.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	9.7506	20.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	10.5001	20.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	11.2504	20.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	12.0003	20.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	12.7503	20.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	13.5003	20.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	14.2505	20.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	15.0009	20.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	15.7502	20.32
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	16.5011	20.34
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	17.2510	20.35
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	18.0007	20.37
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	18.7500	20.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	19.5010	20.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	20.2507	20.42
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	21.0002	20.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	21.7500	20.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	22.5005	20.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	23.2503	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	24.0014	20.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	24.7515	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	25.5010	20.54

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	26.2515	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	27.0009	20.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	27.7516	20.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	28.5011	20.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	29.2514	20.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	30.0011	20.71
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	30.7514	20.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	31.5001	20.77
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	32.2513	20.80
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	33.0012	20.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	33.7505	20.86
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	34.5018	20.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	35.2513	20.91
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	36.0013	20.94
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	36.7510	20.97
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	37.5008	20.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	38.2513	21.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	39.0004	21.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	39.7501	21.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	40.5001	21.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	41.2506	21.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	42.0013	21.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	42.7506	21.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	43.5001	21.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	44.2502	21.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	45.0004	21.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	45.7501	21.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	46.5000	21.32
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	47.2506	21.35
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	48.0006	21.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	48.7511	21.41
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	49.5002	21.44
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	50.2511	21.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	51.0002	21.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	51.7502	21.55

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	52.5005	21.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	53.2505	21.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	54.0001	21.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	54.7509	21.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	55.5001	21.95
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	56.2503	22.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	57.0020	22.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	57.7501	22.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	58.5010	22.33
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	59.2502	22.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	60.0008	22.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	60.7504	22.97
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	61.5004	23.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	62.2507	23.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	63.0001	23.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	63.7504	23.42
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	64.5000	23.44
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	65.2500	23.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	66.0001	23.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	66.7501	23.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	67.5004	23.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	68.2500	23.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	69.0001	23.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	69.7502	23.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	70.5003	23.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	71.2501	23.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	72.0002	23.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	72.7502	23.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	73.5000	23.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	74.2504	23.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	75.0001	23.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	75.7500	23.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	76.5002	23.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	77.2501	23.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	78.0001	23.51

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	78.7501	23.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	79.5003	23.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	80.2500	23.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	81.0003	23.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	81.7500	23.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	82.5001	23.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	83.2501	23.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	84.0001	23.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	84.7501	23.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	85.5001	23.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	86.2502	23.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	87.0002	23.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	87.7504	23.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	88.5002	23.44
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	89.2501	23.44
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	90.0003	23.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	90.7503	23.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	91.5001	23.42
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	92.2502	23.42
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	93.0001	23.41
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	93.7504	23.41
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	94.5002	23.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	95.2502	23.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	96.0003	23.39
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	96.7503	23.39
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	97.5001	23.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	98.2501	23.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	99.0002	23.37
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	99.7500	23.37
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	100.5002	23.36
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	101.2502	23.36
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	102.0001	23.35
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	102.7503	23.35
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	103.5001	23.34
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	104.2502	23.34

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	105.0004	23.33
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	105.7502	23.33
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	106.5002	23.32
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	107.2503	23.32
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	108.0002	23.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	108.7501	23.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	109.5002	23.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	110.2501	23.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	111.0001	23.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	111.7503	23.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	112.5002	23.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	113.2503	23.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	114.0003	23.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	114.7501	23.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	115.5002	23.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	116.2502	23.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	117.0002	23.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	117.7504	23.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	118.5001	23.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	119.2503	23.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	120.0000	23.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	120.7503	23.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	121.5000	23.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	122.2500	23.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	123.0001	23.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	123.7502	23.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	124.5001	23.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	125.2503	23.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	126.0001	23.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	126.7504	23.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	127.5003	23.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	128.2501	23.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	129.0003	23.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	129.7501	23.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	130.5002	23.15

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	131.2502	23.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	132.0001	23.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	132.7503	23.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	133.5002	23.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	134.2503	23.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	135.0002	23.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	135.7502	23.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	136.5001	23.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	137.2502	23.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	138.0002	23.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	138.7500	23.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	139.5003	23.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	140.2502	23.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	141.0000	23.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	141.7503	23.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	142.5003	23.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	143.2500	23.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	144.0003	23.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	144.7501	23.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	145.5003	23.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	146.2501	23.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	147.0002	23.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	147.7501	23.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	148.5002	23.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	149.2503	23.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	150.0002	23.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	150.7500	23.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	151.5001	22.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	152.2502	22.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	153.0003	22.98
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	153.7504	22.98
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	154.5001	22.97
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	155.2501	22.96
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	156.0003	22.96
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	156.7501	22.95

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	157.5001	22.95
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	158.2501	22.94
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	159.0001	22.93
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	159.7502	22.93
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	160.5001	22.92
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	161.2500	22.92
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	162.0001	22.91
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	162.7502	22.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	163.5000	22.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	164.2503	22.89
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	165.0003	22.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	165.7503	22.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	166.5001	22.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	167.2504	22.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	168.0002	22.86
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	168.7504	22.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	169.5003	22.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	170.2503	22.84
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	171.0001	22.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	171.7502	22.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	172.5001	22.82
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	173.2500	22.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	174.0003	22.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	174.7502	22.80
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	175.5001	22.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	176.2502	22.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	177.0002	22.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	177.7504	22.77
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	178.5002	22.77
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	179.2503	22.76
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	180.0002	22.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	180.7503	22.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	181.5001	22.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	182.2500	22.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	183.0004	22.72

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	183.7501	22.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	184.5001	22.71
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	185.2503	22.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	186.0002	22.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	186.7503	22.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	187.5004	22.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	188.2500	22.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	189.0004	22.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	189.7500	22.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	190.5001	22.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	191.2503	22.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	192.0002	22.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	192.7503	22.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	193.5001	22.62
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	194.2501	22.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	195.0003	22.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	195.7501	22.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	196.5001	22.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	197.2503	22.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	198.0001	22.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	198.7501	22.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	199.5002	22.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	200.2501	22.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	201.0003	22.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	201.7501	22.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	202.5002	22.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	203.2504	22.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	204.0002	22.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	204.7504	22.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	205.5002	22.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	206.2503	22.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	207.0003	22.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	207.7500	22.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	208.5001	22.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	209.2502	22.44

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	210.0002	22.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	210.7501	22.42
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	211.5002	22.41
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	212.2502	22.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	213.0000	22.39
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	213.7501	22.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	214.5004	22.37
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	215.2503	22.36
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	216.0004	22.35
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	216.7502	22.33
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	217.5001	22.32
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	218.2500	22.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	219.0001	22.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	219.7500	22.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	220.5002	22.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	221.2502	22.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	222.0003	22.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	222.7501	22.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	223.5000	22.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	224.2501	22.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	225.0000	22.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	225.7500	22.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	226.5001	22.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	227.2502	22.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	228.0001	22.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	228.7502	22.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	229.5004	22.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	230.2507	22.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	231.0005	22.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	231.7501	22.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	232.5004	22.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	233.2505	22.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	234.0037	21.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	234.7526	21.97
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	235.5026	21.95

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	236.2526	21.92
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	237.0026	21.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	237.7526	21.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	238.5026	21.86
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	239.2526	21.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	240.0026	21.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	240.7526	21.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	241.5026	21.77
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	242.2526	21.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	243.0026	21.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	243.7526	21.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	244.5026	21.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	245.2526	21.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	246.0026	21.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	246.7526	21.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	247.5026	21.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	248.2526	21.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	249.0026	21.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	249.7526	21.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	250.5026	21.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	251.2526	21.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	252.0026	21.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	252.7526	21.44
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	253.5026	21.42
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	254.2526	21.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	255.0026	21.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	255.7526	21.35
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	256.5026	21.33
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	257.2526	21.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	258.0026	21.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	258.7526	21.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	259.5026	21.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	260.2526	21.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	261.0026	21.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	261.7526	21.19

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	262.5026	21.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	263.2526	21.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	264.0026	21.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	264.7526	21.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	265.5026	21.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	266.2526	21.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	267.0026	21.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	267.7526	21.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	268.5026	21.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	269.2526	20.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	270.0026	20.97
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	270.7526	20.95
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	271.5026	20.93
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	272.2526	20.91
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	273.0026	20.89
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	273.7526	20.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	274.5026	20.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	275.2526	20.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	276.0026	20.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	276.7526	20.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	277.5026	20.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	278.2526	20.76
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	279.0026	20.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	279.7526	20.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	280.5026	20.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	281.2526	20.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	282.0026	20.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	282.7526	20.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	283.5026	20.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	284.2526	20.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	285.0026	20.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	285.7526	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	286.5026	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	287.2526	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	288.0026	20.52

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	288.7526	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	289.5026	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	290.2526	20.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	291.0026	20.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	291.7526	20.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	292.5026	20.41
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	293.2526	20.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	294.0026	20.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	294.7526	20.36
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	295.5026	20.35
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	296.2526	20.33
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	297.0026	20.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	297.7526	20.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	298.5026	20.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	299.2526	20.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	300.0026	20.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	300.7526	20.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	301.5026	20.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	302.2526	20.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	303.0026	20.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	303.7526	20.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	304.5026	20.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	305.2526	20.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	306.0026	20.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	306.7526	20.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	307.5026	20.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	308.2526	20.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	309.0026	20.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	309.7526	20.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	310.5026	20.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	311.2526	20.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	312.0001	19.97
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	312.7553	19.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	313.5026	19.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	314.2526	19.18

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	315.0026	19.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	315.7526	19.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	316.5026	19.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	317.2526	19.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	318.0026	19.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	318.7526	19.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	319.5026	19.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	320.2526	19.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	321.0026	19.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	321.7526	19.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	322.5026	19.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	323.2526	19.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	324.0026	19.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	324.7526	19.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	325.5026	19.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	326.2526	19.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	327.0026	19.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	327.7526	19.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	328.5026	19.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	329.2526	19.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	330.0026	19.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	330.7526	19.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	331.5026	19.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	332.2526	19.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	333.0026	19.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	333.7526	19.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	334.5026	19.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	335.2526	19.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	336.0026	19.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	336.7526	19.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	337.5026	19.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	338.2526	19.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	339.0026	19.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	339.7526	19.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	340.5026	19.08

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	341.2526	19.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	342.0026	19.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	342.7526	19.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	343.5026	19.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	344.2526	19.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	345.0026	19.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	345.7526	19.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	346.5026	19.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	347.2526	19.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	348.0026	19.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	348.7526	19.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	349.5026	19.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	350.2526	19.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	351.0026	19.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	351.7526	19.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	352.5026	19.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	353.2526	19.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	354.0026	19.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	354.7526	19.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	355.5026	19.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	356.2526	19.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	357.0026	19.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	357.7526	19.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	358.5026	19.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract West	359.2526	19.01

100 Year, 3 Day, Zero Discharge Node Max

Sim	Node Name	Relative Time [hrs]	Maximum Stage [ft]	Time to Maximum Stage [hrs]
SFWMD 100YR-3 DAY	Site Basin West	359.2546	24.32	73.2626
SFWMD 100YR-3 DAY	Stormwater Tract West	359.2546	24.32	359.2546

100 Year, 3 Day, Link Discharge

Sim	Link Name	Relative Time [hrs]	Maximum Flow Rate [cfs]	Time to Maximum Flow Rate [hrs
SFWMD 100YR-3 DAY	CS-WB	359.2546	0.00	0.0000

WEST BASIN – Nutrient Loading Inputs

WBID Information

The site is in WBID 3240K, Planning Unit Orange River, Group Caloosahatchee.

SITE IN BMAP, THEREFORE NET IMPROVEMENT COMPLETED.

Waterbody IDs (WBIDs)

Authoritative

FDEP Open Data Administrator
Florida Department of Environmental Protection

Summary

To spatially represent the water feature that is being assessed for IWR Run 66.

View Full Details

Download

Details

Dataset
Feature Layer

As Needed
Info Updated: January 28, 2025 at 1:07:02 PM EST

As Needed
Data Updated: January 27, 2025 at 12:00:00 AM EST

September 15, 2005 at 12:00:00 AM EDT
Published Date

Records: 6,826
View data table

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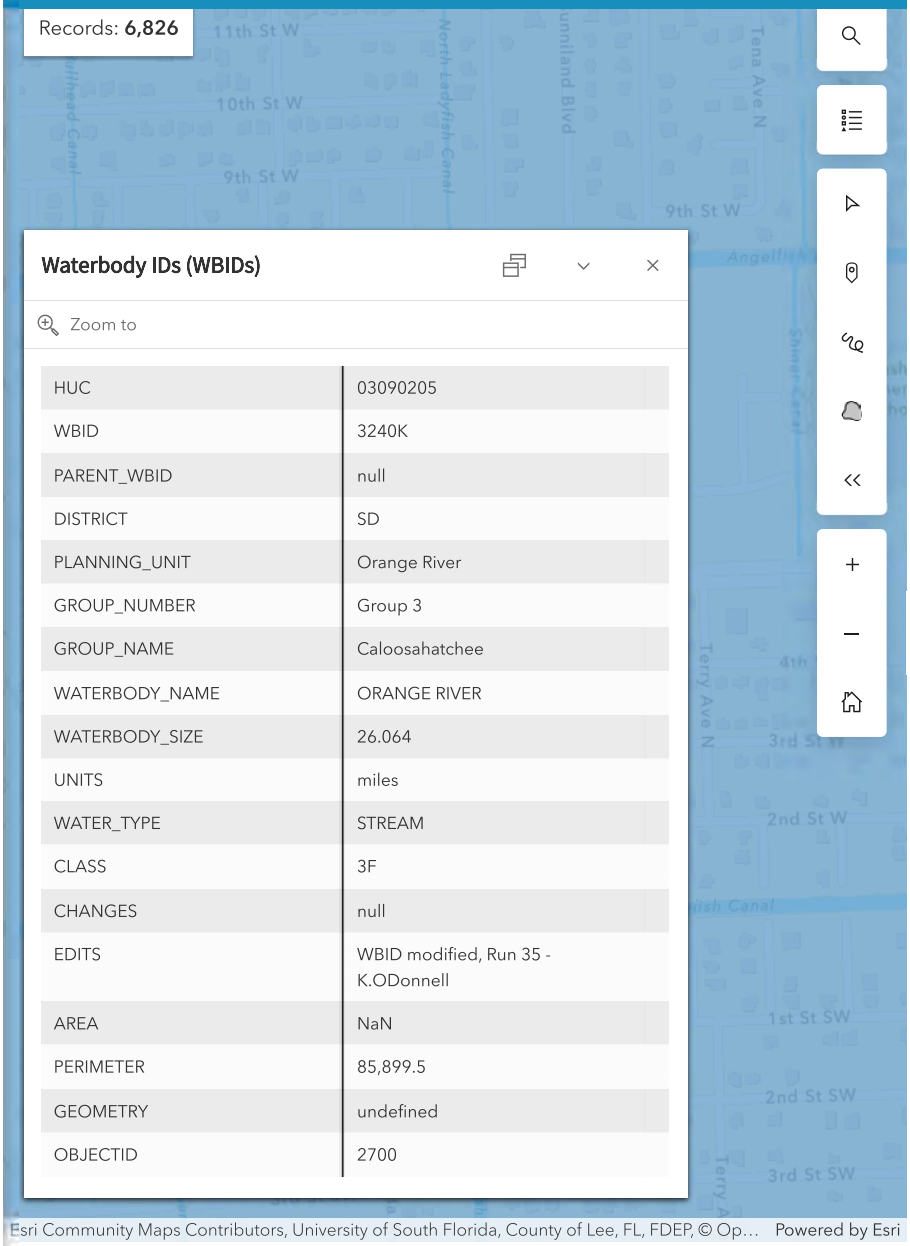
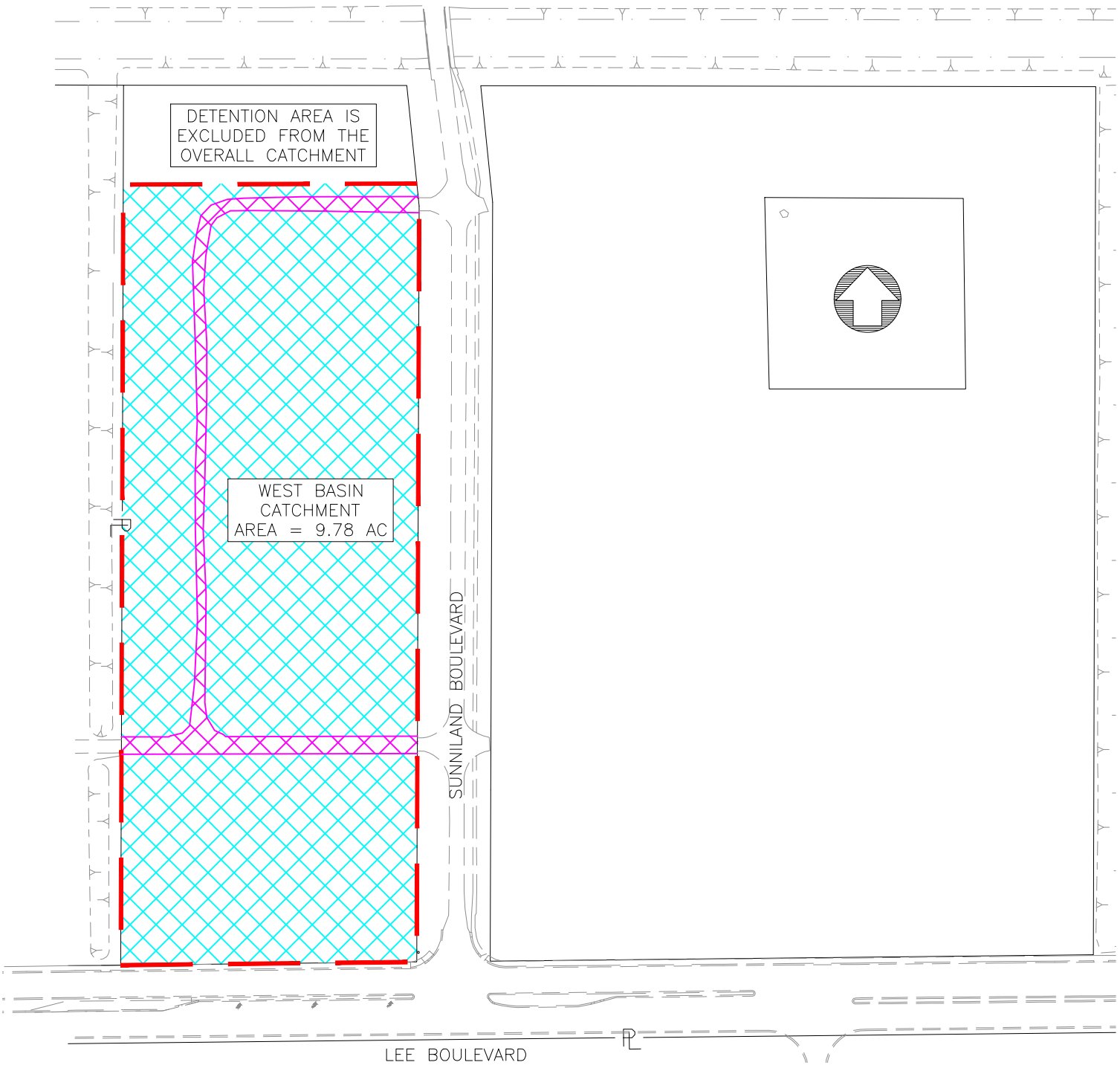


Menu



LAND USE:
HIGHWAY = 0.58 AC
UPLAND HARDWOODS = 9.20 AC

LEGEND:

HIGHWAY

UPLAND HARDWOODS

WEST BASIN CATCHMENT

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE101
FORT MYERS, FL 33966
239.939.5490

RACHEL J. TRACEY
P.E. LIC. #85322

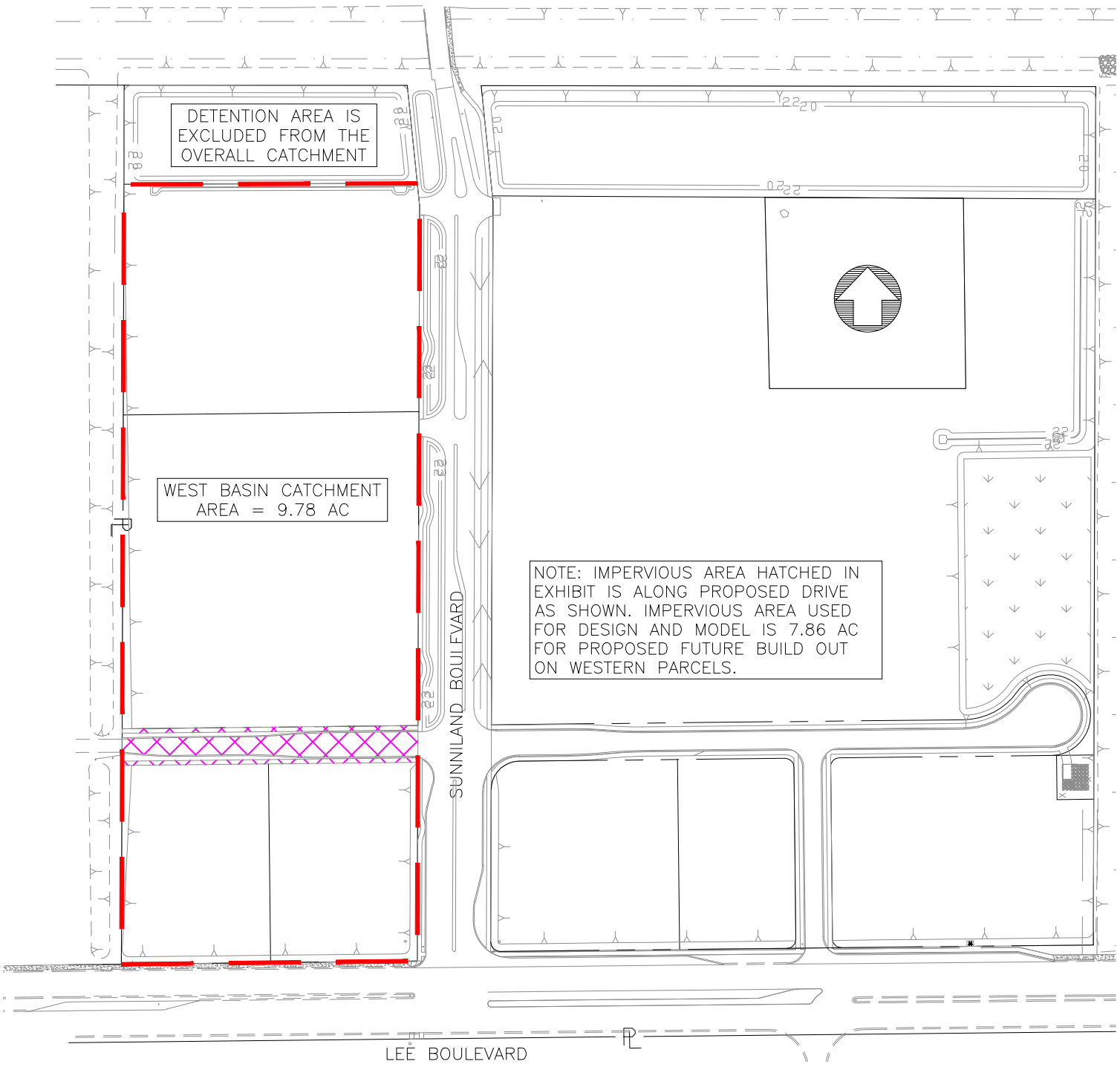
PRE-DEVELOPMENT WEST BASIN CATCHMENT

SUNNILAND COMMONS

LEE COUNTY, FL

COMPLETION DATE:	PROJECT:	DRAFTED BY:	DESIGNED BY:	REVIEWED BY:	SHEET:
08-29-25	8844	KG	KG	RJT	01

S:\Jobs\88xx\8844\Engineering\EXHIBITS\8844-EXIST. WEST BASIN CATCHMENT.dwg, 9/12/2025 1:22:43 PM, KEVIN GONZALEZ, ATWELL, LLC



LAND USE:
IMPERVIOUS = 7.86 AC
PERVIOUS = 1.92 AC

LEGEND:

IMPERVIOUS (SEE NOTE ABOVE POST DEVELOPMENT)

WEST BASIN CATCHMENT

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE101
FORT MYERS, FL 33966
239.939.5490

RACHEL J. TRACEY
P.E. LIC. #85322

POST DEVELOPMENT WEST BASIN CATCHMENT

SUNNILAND COMMONS

LEE COUNTY, FL

COMPLETION DATE:	PROJECT:	DRAFTED BY:	DESIGNED BY:	REVIEWED BY:	SHEET:
08-29-25	8844	KG	KG	RJT	01

S:\Jobs\88xx\8844\Engineering\EXHIBITS\8844-PROPOSED WEST BASIN CATCHMENT.dwg, 9/12/2025 1:31:15 PM, KEVIN GONZALEZ, ATWELL, LLC

BMP Trains Report

Complete Report (not including cost) Ver 4.3.5

Project: Sunniland Commons West
Date: 8/29/2025 1:22:45 PM

Site and Catchment Information

Analysis: Net Improvement

Catchment Name	Sunniland Commons West
Rainfall Zone	Florida Zone 4
Annual Mean Rainfall	53.13

Pre-Condition Landuse Information

Landuse	User Defined Values
Area (acres)	9.78
Rational Coefficient (0-1)	0.21
Non DCIA Curve Number	86.70
DCIA Percent (0-100)	0.00
Nitrogen EMC (mg/l)	1.073
Phosphorus EMC (mg/l)	0.337
Runoff Volume (ac-ft/yr)	9.117
Groundwater N (kg/yr)	0.000
Groundwater P (kg/yr)	0.000
Nitrogen Loading (kg/yr)	12.062
Phosphorus Loading (kg/yr)	3.788

HIGH INTENSITY COMMERICAL

Post-Condition Landuse Information

Landuse	High-Intensity Commercial: TN=2.40 TP=0.345
Area (acres)	9.78
Rational Coefficient (0-1)	0.68
Non DCIA Curve Number	74.00
DCIA Percent (0-100)	80.00
Wet Pond Area (ac)	0.00
Nitrogen EMC (mg/l)	2.400
Phosphorus EMC (mg/l)	0.345
Runoff Volume (ac-ft/yr)	29.315
Groundwater N (kg/yr)	0.000
Groundwater P (kg/yr)	0.000

Nitrogen Loading (kg/yr)	86.748
Phosphorus Loading (kg/yr)	12.470

Catchment Number: 1 Name: Sunniland Commons West

Project: Sunniland Commons West
Date: 8/29/2025

Exfiltration Trench Design

Pipe Span (in)	12.0
Pipe Rise (in)	12.0
Pipe Length (ft)	335.0
Trench Width (ft)	3.0
Trench Depth (ft)	3.0
Trench Length (ft)	335.0
Aggregate Void %	40.00
Storage Volume (Ac-ft)	2.53
Retention Depth (in over CA)	3.108

Watershed Characteristics

Catchment Area (acres)	9.78
Contributing Area (acres)	9.780
Non-DCIA Curve Number	74.00
DCIA Percent	80.00
Rainfall Zone	Florida Zone 4
Rainfall (in)	53.13

Surface Water Discharge

Required TN Treatment Efficiency (%)	86
Provided TN Treatment Efficiency (%)	95
Required TP Treatment Efficiency (%)	70
Provided TP Treatment Efficiency (%)	95

Media Mix Information

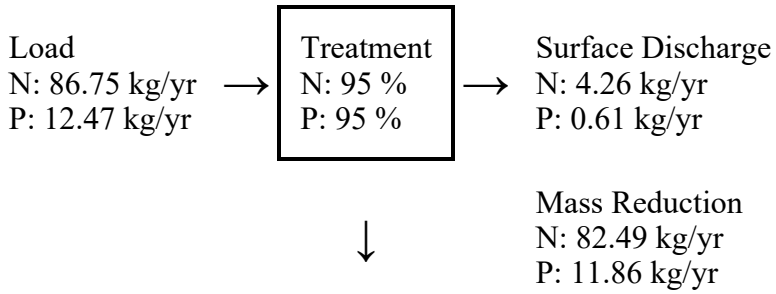
Type of Media Mix	Not Specified
Media N Reduction (%)	
Media P Reduction (%)	

Groundwater Discharge (Stand-Alone)

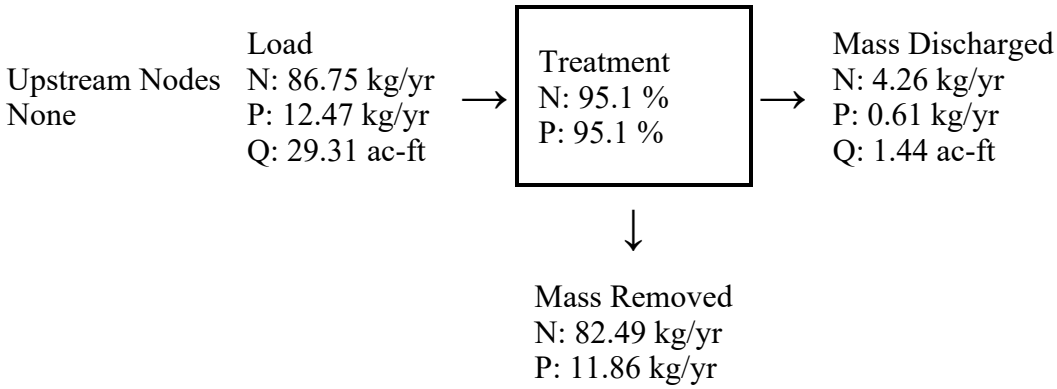
Treatment Rate (MG/yr)	0.000
TN Mass Load (kg/yr)	82.485

TN Concentration (mg/L)	0.000
TP Mass Load (kg/yr)	11.857
TP Concentration (mg/L)	0.000

Load Diagram for Exfiltration Trench (stand-alone)



Load Diagram for Exfiltration (As Used In Routing)



Summary Treatment Report Version: 4.3.5

Project: Sunniland Commons West

Date:8/29/2025

Analysis Type: Net Improvement
BMP Types:
Catchment 1 - (Sunniland Commons West) Exfiltration Trench
Based on % removal values to the nearest percent
Total nitrogen target removal met? **Yes**

Routing Summary
Catchment 1 Routed to Outlet

Total phosphorus target removal met? **Yes**

Summary Report

Nitrogen

Surface Water Discharge		
Total N pre load	12.06 kg/yr	
Total N post load	86.75 kg/yr	
Target N load reduction	86 %	
Target N discharge load	12.06 kg/yr	
Percent N load reduction	95 %	
Provided N discharge load	4.26 kg/yr	9.4 lb/yr
Provided N load removed	82.49 kg/yr	181.88 lb/yr

Phosphorus

Surface Water Discharge		
Total P pre load	3.788 kg/yr	
Total P post load	12.47 kg/yr	
Target P load reduction	70 %	
Target P discharge load	3.788 kg/yr	
Percent P load reduction	95 %	
Provided P discharge load	.613 kg/yr	1.35 lb/yr
Provided P load removed	11.857 kg/yr	26.145 lb/yr

Nutrient Loading Inputs

Nutrient Loading - East Basin Outparcel Catchment

Area 9.78 acres

10.99 ACRES - 1.21 STORM WATER TRACT

9.78 ac

Pre-Development Inputs

Total Pre-Development Catchment Area

Total area in acres for the catchment in pre-development condition. Catchment is a contiguous area where all runoff will accumulate.

Pre-Development Non-DCIA CN

Weighted curve number for portion of catchment which is not DCIA

TR-55, Table 2-2c, woods/grass combination, poor condition, HSG D, CN=86 ***(See FLUCCS Map)***

Existing Impervious Roadway (not considered DCIA)

Area	0.58 ac
CN	98

Existing Green Space, Disturbed/wooded/etc

Area	9.20 ac
CN	86

Non-DCIA CN (Composite of above)
86.7

Pre-Development DCIA Percentage

Percentage of total catchment area that is directly-connected impervious area. Note, areas wet all year are note included.

Existing Site Breakdown: Existing paved areas not considered DCIA for this analysis

0% DCIA

Pre-Development Land Use

Highway	0.58 ac	Upland Hardwood	9.20 ac
TN=	1.520	TN=	1.042
TP=	0.200	TP=	0.346

Composite EMC Values	
TN=	1.070
TP=	0.337

Pre-Development Loading

N Loading	12.062	kg/yr
P Loading	3.788	kg/yr

Post Development Inputs

Total Post Development Catchment Area

Total area in acres for the catchment defined at a point where there is a discharge as well as a place for possible BMPs in the post development condition.

9.78 ***ac***

Post Development Non-DCIA Curve Number

The weighted runoff curve number for the portion of the catchment that is not directly connected impervious area in the post-development state. A composite weighted CN can be calculated using average annual runoff.

Pervious Area	1.92 ac
CN for Pervious Area*	74.00
*TR-55, Table 2-2a, open space in good condition, HSG C	

Impervious Area which is Not DCIA, Entire Impervious on basin is DCIA Area, therefore zero

Area	0.00 ac
CN for Impervious Areas	98

Weighted CN=(Pervious Area)(CN Pervious Area) + (Impervious Area not DCIA Area)(CN Impervious Area) / (Pervious Area + Impervious Area)
74.0

Post Development DCIA Percentage

The percentage of the total catchment area that is directly connected impervious area in the post development state. ***Areas wet all year (detention ponds, etc.) are not included in the DCIA calculation.***
The area of internal roadways and sidewalks as well as impervious area.

This site 100% of Impervious area is DCIA

Total DCIA Area	7.86 ac	***Assumes 100% of the impervious area is DCIA***
Percent DCIA	80%	

Wet Pond Area

The area at the top of the permanent pool or at the control elevation. This area will be subtracted from the overall post-development catchment area when the wet pond is part of the total catchment area. As an alternative, the wet pond area does not have to be included in there catchment area.

Wet Pond Area (Lake Area)	0.00 ac	***No lake***

Land Use

High Intensity Commercial

TN=	2.400
TP=	0.345

Post Development Loading

N Loading	86.748	kg/yr
P Loading	12.470	kg/yr

Rainfall Map

Figure 3-3. Locations of Selected Meteorological Sites.

TABLE 3-1

CHARACTERISTICS OF SELECTED METEOROLOGICAL SITES IN FLORIDA

GENERAL LOCATION	MONITORING SITE	MEAN ANNUAL RAINFALL (in/yr)	PERIOD OF RECORD
Panhandle	Pensacola Tallahassee	62.17 64.55	Pensacola: 33 years (1942-2005) Tallahassee: 45 years (1959-2005)
Big Bend Coastal	Cross City	55.14	47 years (1942-2000)
Northeast Coastal	Jacksonville	52.96	64 years (1942-2005)
North Florida	Branford	52.27	53 years (1945-2004)
Central	Orlando	50.03	62 years (1942-2005)
East Central Coastal	Melbourne	47.52	47 years (1942-2005)
West Central Coastal	Tampa	46.07	47 years (1949-2005)
Southwest Coastal	Ft. Myers	53.13	28 years (1960-2003)
Southeast Coastal	Miami	56.92	64 years (1942-2005)
Florida Keys	Key West	39.07	63 years (1942-2005)

Land Use

PRE-DEVELOPMENT LAND USE

TABLE 4-1

GENERAL LAND USE CATEGORIES FOR RUNOFF CHARACTERIZATION DATA

GENERAL CATEGORY	DESCRIPTION
Low-Density Residential	Rural areas with lot sizes greater than 1 acre or less than one dwelling unit per acre; internal roadways associated with the homes are also included
Single-Family Residential	Typical detached home community with lot sizes generally less than 1 acre and dwelling densities greater than one dwelling unit per acre; duplexes constructed on one-third to one-half acre lots are also included in this category; internal roadways associated with the homes are also included
Multi-Family Residential	Residential land use consisting primarily of apartments, condominiums, and cluster-homes; internal roadways associated with the homes are also included
Low-Intensity Commercial	Areas which receive only a moderate amount of traffic volume where cars are parked during the day for extended periods of time; these areas include universities, schools, professional office sites, and small shopping centers; internal roadways associated with the development are also included
High-Intensity Commercial	Land use consisting of commercial areas with high levels of traffic volume and constant traffic moving in and out of the area; includes downtown areas, commercial sites, regional malls, and associated parking lots; internal roadways associated with the development are also included
Industrial	Land uses include manufacturing, shipping and transportation services, sewage treatment facilities, water supply plants, and solid waste disposal; internal roadways associated with the development are also included
Highway	Includes major road systems, such as interstate highways and major arteries and thoroughfares; roadway areas associated with residential, commercial, and industrial land use categories are already included in loading rates for these categories
Agriculture	Includes cattle, grazing, row crops, citrus, and related activities
Open/ Undeveloped	Includes open space, barren land, undeveloped land which may be occupied by native vegetation, rangeland, and power lines; this land does not include golf course areas which are heavily fertilized and managed; golf course areas have runoff characteristics most similar to single-family residential areas
Mining/ Extractive	Includes a wide variety of mining activities for resources such as phosphate, sand, gravel, clay, shell, etc.
Wetlands	Include a wide range of diverse wetland types, such as hardwood wetlands, cypress stands, grassed wetlands, freshwater marsh, and mixed wetland associations
Open Water/ Lakes	Land use consists of open water and lakes, rivers, reservoirs, and other open waterbodies

Pre-Development TR-55 Excerpt

PRE-DEVELOPMENT CURVE NUMBER

HSG D

Table 2-2c Runoff curve numbers for other agricultural lands [1/]

Cover description		Curve numbers for hydrologic soil group			
Cover type	Hydrologic condition	A	B	C	D
Pasture, grassland, or range—continuous forage for grazing. [2/]	Poor	68	79	86	89
	Fair	49	69	79	84
	Good	39	61	74	80
Meadow—continuous grass, protected from grazing and generally mowed for hay.	—	30	58	71	78
Brush—brush-weed-grass mixture with brush the major element. [3/]	Poor	48	67	77	83
	Fair	35	56	70	77
	Good	30 [4/]	48	65	73
Woods—grass combination (orchard or tree farm). [5/]	Poor	57	73	82	86
	Fair	43	65	76	82
	Good	32	58	72	79
Woods. [6/]	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	30 [4/]	55	70	77
Farmsteads—buildings, lanes, driveways, and surrounding lots.	—	59	74	82	86

1 Average runoff condition, and $I_a = 0.2S$.

2 *Poor:* <50%) ground cover or heavily grazed with no mulch.
Fair: 50 to 75% ground cover and not heavily grazed.
Good: > 75% ground cover and lightly or only occasionally grazed.

3 *Poor:* <50% ground cover.
Fair: 50 to 75% ground cover.
Good: >75% ground cover.

4 Actual curve number is less than 30; use CN = 30 for runoff computations.

5 CN's shown were computed for areas with 50% woods and 50% grass (pasture) cover. Other combinations of conditions may be computed from the CN's for woods and pasture.

6 *Poor:* Forest litter, small trees, and brush are destroyed by heavy grazing or regular burning.
Fair: Woods are grazed but not burned, and some forest litter covers the soil.
Good: Woods are protected from grazing, and litter and brush adequately cover the soil.

Post Development TR-55 Excerpt

POST DEVELOPMENT CURVE NUMBER

Table 2-2a Runoff curve numbers for urban areas [1/]

Cover description: Cover type and hydrologic condition	Average percent impervious area [2/]	Curve numbers for hydrologic soil group: A	B	C	D
Fully developed urban areas (vegetation established)					
Open space (lawns, parks, golf courses, cemeteries, etc.) [3/]:					
Poor condition (grass cover < 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)		98	98	98	98
Streets and roads:					
Paved; curbs and storm sewers (excluding right-of-way)		98	98	98	98
Paved; open ditches (including right-of-way)		83	89	92	93
Gravel (including right-of-way)		76	85	89	91
Dirt (including right-of-way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only) [4/]		63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1- to 2-inch sand or gravel mulch and basin borders)		96	96	96	96
Urban districts:					
Commercial and business	85	89	92	94	95
Industrial	72	81	88	91	93
Residential districts by average lot size:					
1/8 acre or less (town houses)	65	77	85	90	92
1/4 acre	38	61	75	83	87
1/3 acre	30	57	72	81	86
1/2 acre	25	54	70	80	85
1 acre	20	51	68	79	84
2 acres	12	46	65	77	82
Developing urban areas					
Newly graded areas (pervious areas only, no vegetation) [5/]		77	86	91	94
Idle lands (CN's are determined using cover types similar to those in table 2-2c).					

[1] Average runoff condition, and $I_a = 0.2S$.

[2] The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system, impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using figure 2-3 or 2-4.

[3] CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space cover type.

[4] Composite CN's for natural desert landscaping should be computed using figures 2-3 or 2-4 based on the impervious area percentage (CN = 98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.

[5] Composite CN's to use for the design of temporary measures during grading and construction should be computed using figure 2-3 or 2-4 based on the degree of development (impervious area percentage) and the CN's for the newly graded pervious areas.

Soils Map – HSG NRCS Web Soil Survey

Hydrologic Soil Group—Lee County, Florida
(West Soils)

Map Scale: 1:2,100 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lee County, Florida
Survey Area Data: Version 22, Aug 21, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 14, 2021—Nov 23, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
112	Floridana sand, ponded-Urban land complex, 0 to 1 percent slopes	C/D	3.6	31.7%
129	Pineda fine sand-Urban land complex, 0 to 2 percent slopes	A/D	0.9	8.1%
137	Wabasso sand-Urban land complex, 0 to 2 percent slopes	C/D	6.8	60.2%
Totals for Area of Interest			**11.3**	**100.0%**

HSG C/D, DUAL GROUP.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

C IS FOR DRAINED AREAS

D IS FOR UNDRAINED AREAS

SOIL IN NATURAL CONDITION ARE IN GROUP D, THEREFORE USE D IN PRE-DEVELOPMENT AND C IN POST DEVELOPMENT ONCE ADD FILL FOR DRAINED AREAS

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

FLUCCS Map

Lehigh Sunniland

SECTION: 26
TOWNSHIP: 44S
RANGE: 26E

0 80 160
SCALE FEET

FLUCCS	Description	Acreage
411E2	Pine Flatwoods Invaded by Exotics (26-50%)	7.49 Ac.±
450	Mixed Exotic Upland Forest	2.17 Ac.±
618E*	Willow Invaded by Exotics (5-9%)	3.28 Ac.±
740	Disturbed Land	4.64 Ac.±
743	Spoil Areas	0.83 Ac.±
748	Cleared Areas	13.62 Ac.±
814	Roads and Highways	1.65 Ac.±
	Total	**33.68 Ac.±**

* Potential SFWMD Jurisdictional Wetlands

Notes:

1. ***Property boundary is approximate and was obtained from the Lee County Property Appraiser's Website.***
2. ***Mapping based on photointerpretation of 2021aerial photography and ground truthing in September 2021.***
3. ***Delineation of jurisdictional wetlands is preliminary and subject to field review/approval by applicable regulatory agencies.***

25-015

Attachment 3. Vegetation Map

OWEN ENVIRONMENTAL CONSULTING, LLC.
FORT MYERS 239-994-9007

Appendix I: Basin East

Appendix I: Basin East

I.1 Nutrient Loading Report

I.2 Recovery Analysis

I.3 Scenario 1 – East Basin with Historic Oil Well Flow, Stormwater Inputs

Basin Exhibit

Land Use Breakdown - Buildout and Site Data

Water Quantity Calculations

Water Quality Calculations

Time of Concentration, Allowable Discharge, and Bleed Down

I.3A StormWise Input Summary, 10 Year Storm (TW differs from 25 year)

I.3B 10 Year Node Max

I.3C StormWise Input Summary, 25 Year Storm (TW differs from 10 year)

I.3D 25 Year Node Max

I.3E 25 Year Link Max

I.3F 25 Year Node Time Series

I.3G 25 Year Node Volume

I.3H 100 Year Node Max

I.3I 100 Year Zero Discharge Link

I.3J 25 Year Back to Back, Input Summary

I.3K 25 Year Back to Back, Node Max

I.4 Scenario 2 – East Basin (Applicant Owned Area)

Basin Exhibit

Land Use Breakdown - Buildout and Site Data

Water Quantity Calculations

Water Quality Calculations

Time of Concentration, Allowable Discharge, and Bleed Down

I.4A StormWise Input Summary, 10 Year Storm (TW differs from 25 year)

I.4B 10 Year Node Max

I.4C StormWise Input Summary, 25 Year Storm (TW differs from 10 year)

I.4D 25 Year Node Max

I.4E 25 Year Link Max

I.4F 25 Year Node Time Series

I.4G 25 Year Node Volume

I.4H 100 Year Node Max

I.4I 100 Year Zero Discharge Link

I.4J 25 Year Back to Back, Input Summary

I.4K 25 Year Back to Back, Node Max

Appendix I.1 Nutrient Loading Report

EAST BASIN – Nutrient Loading Inputs

WBID Information

The site is in WBID 3240K, Planning Unit Orange River, Group Caloosahatchee.

SITE IN BMAP, THEREFORE NUTRIENT ANALSYIS NET IMPROVEMENT IS COMPLETE.

Waterbody IDs (WBIDs)

Authoritative

FDEP Open Data Administrator
Florida Department of Environmental Protection

Summary

To spatially represent the water feature that is being assessed for IWR Run 66.

View Full Details

Download

Details

Dataset
Feature Layer

As Needed
Info Updated: January 28, 2025 at 1:07:02 PM EST

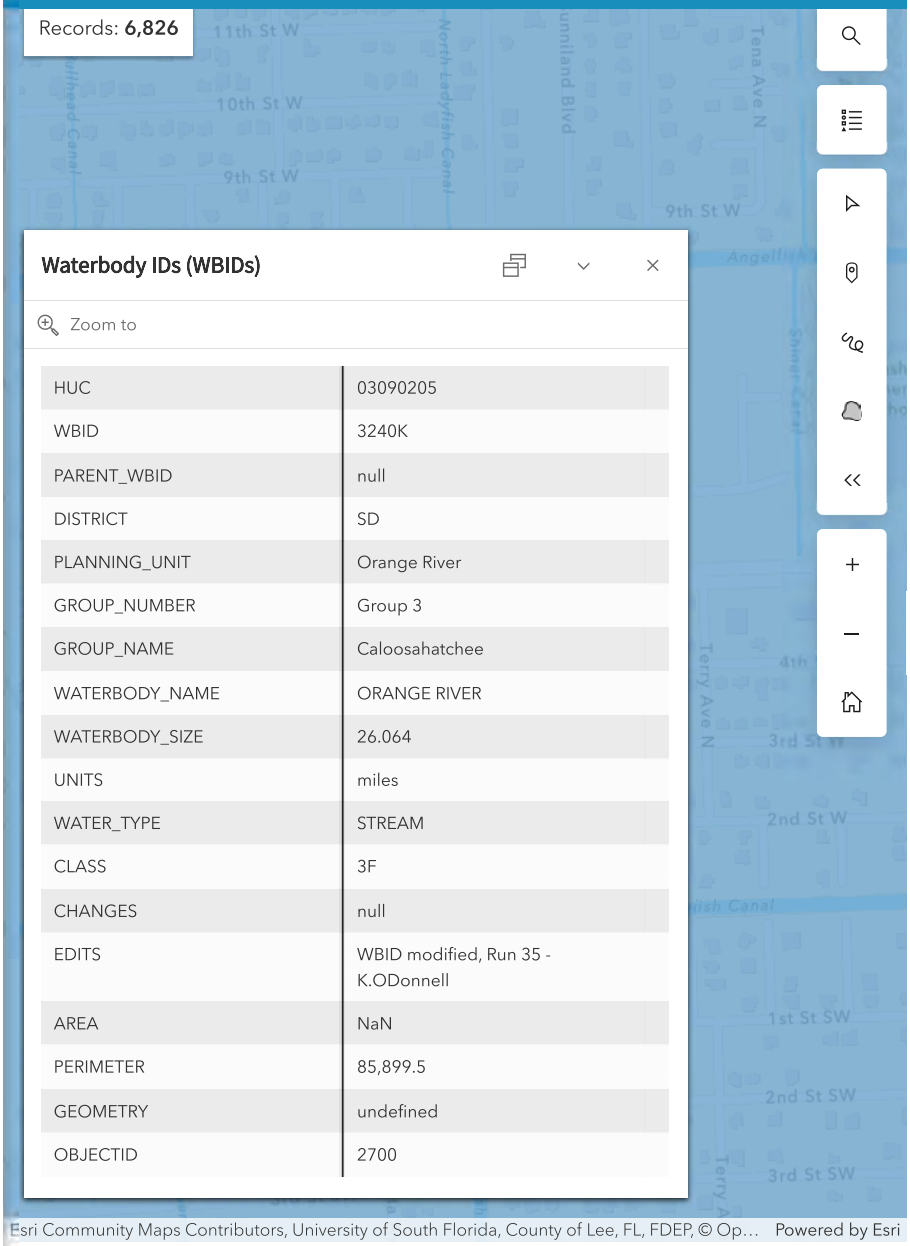
As Needed
Data Updated: January 27, 2025 at 12:00:00 AM EST

September 15, 2005 at 12:00:00 AM EDT
Published Date

Records: 6,826
View data table

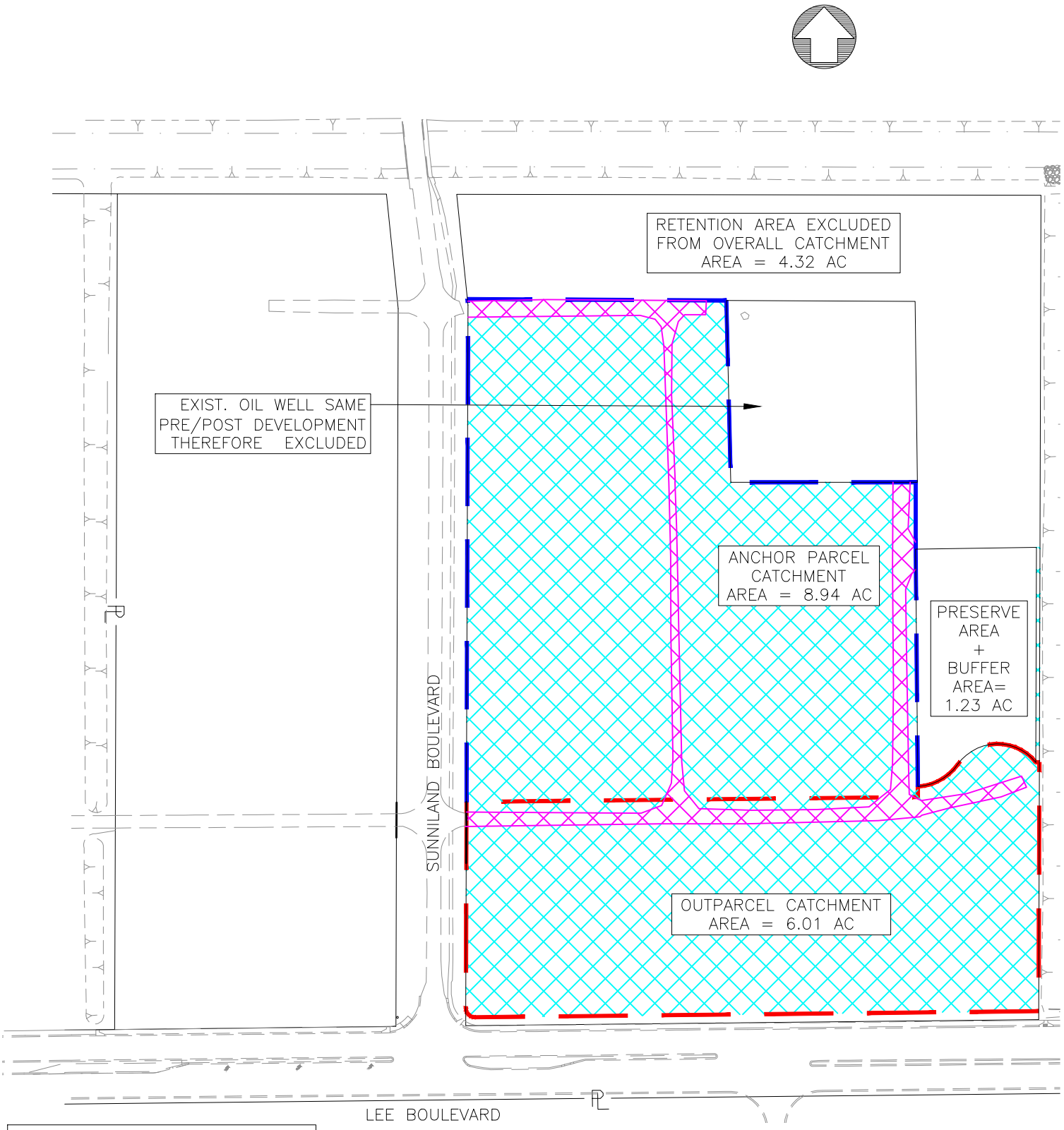
Public
Anyone can see this content

Custom License
View license details



Menu

Pre-Development Nutrient Loading Map



ANCHOR PARCEL LAND USE:
HIGHWAY = 0.61 AC
UPLAND HARDWOODS = 8.33 AC

OUTPARCEL LAND USE:
HIGHWAY = 0.38 AC
UPLAND HARDWOODS = 5.63 AC

LEGEND:

- HIGHWAY
- UPLAND HARDWOODS
- ANCHOR PARCEL CATCHMENT
- OUTPARCEL CATCHMENT

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE101
FORT MYERS, FL 33966
239.939.5490

RACHEL J. TRACEY
P.E. LIC. #85322

PRE-DEVELOPMENT EAST BASIN CATCHMENT

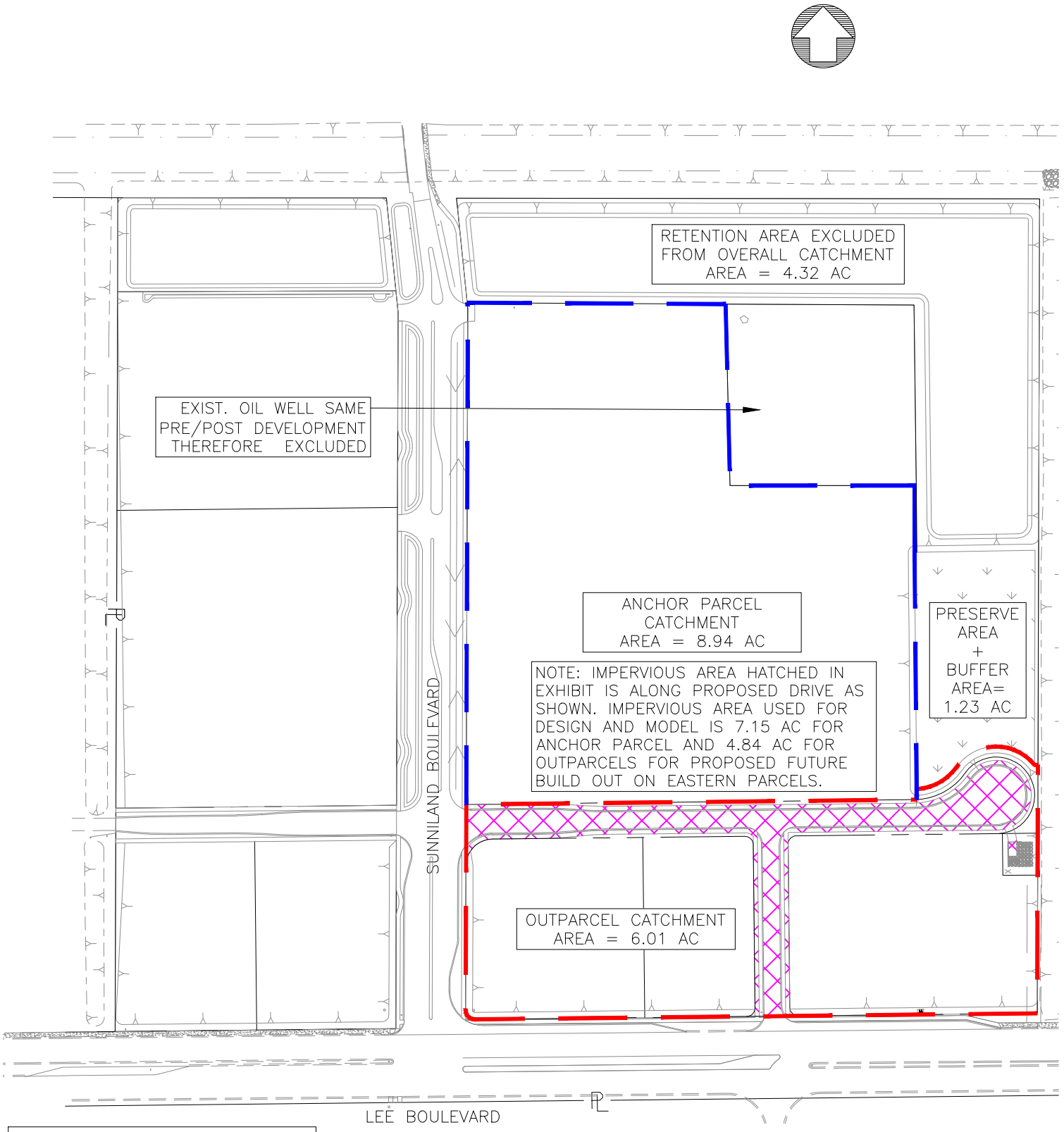
SUNNILAND COMMONS

LEE COUNTY, FL

COMPLETION DATE:	PROJECT:	DRAFTED BY:	DESIGNED BY:	REVIEWED BY:	SHEET:
08-29-25	8844	KG	KG	RJT	01

S:\Jobs\88xx\8844\Engineering\EXHIBITS\8844-EXIST. EAST BASIN CATCHMENT.dwg, 9/22/2025 3:24:50 PM, KEVIN GONZALEZ, ATWELL, LLC

Post Development Nutrient Loading Map



ANCHOR PARCEL LAND USE:
IMPERVIOUS = 7.15 AC
PERVIOUS = 1.79 AC

OUTPARCEL LAND USE:
IMPERVIOUS = 4.84 AC
PERVIOUS = 1.17 AC

LEGEND:

- IMPERVIOUS
- ANCHOR PARCEL CATCHMENT
- OUTPARCEL CATCHMENT

ATWELL
866.850.4200 www.atwell.com
10511 SIX MILE CYPRESS PKWY, SUITE101
FORT MYERS, FL 33966
239.939.5490

RACHEL J. TRACEY
P.E. LIC. #85322

POST-DEVELOPMENT EAST BASIN CATCHMENT

SUNNILAND COMMONS

LEE COUNTY, FL

COMPLETION DATE:	PROJECT:	DRAFTED BY:	DESIGNED BY:	REVIEWED BY:	SHEET:
08-29-25	8844	KG	KG	RJT	01

S:\Jobs\88xx\8844\Engineering\EXHIBITS\8844-PROPOSED EAST BASIN CATCHMENT.dwg, 9/22/2025 3:28:35 PM, KEVIN GONZALEZ, ATWELL, LLC

BMP Trains Report

Complete Report (not including cost) Ver 4.3.5

Project: Sunniland Commons East
Date: 9/22/2025 1:57:01 PM

Site and Catchment Information

Analysis: Net Improvement

Catchment Name	Sunniland Commons East Outparcel Catchment	Sunniland Commons East Anchor Parcel Catchment
Rainfall Zone	Florida Zone 4	Florida Zone 4
Annual Mean Rainfall	53.13	53.13

Pre-Condition Landuse Information

Landuse	User Defined Values	User Defined Values
Area (acres)	6.01	8.94
Rational Coefficient (0-1)	0.21	0.21
Non DCIA Curve Number	86.80	86.80
DCIA Percent (0-100)	0.00	0.00
Nitrogen EMC (mg/l)	1.072	1.075
Phosphorus EMC (mg/l)	0.337	0.336
Runoff Volume (ac-ft/yr)	5.648	8.401
Groundwater N (kg/yr)	0.000	0.000
Groundwater P (kg/yr)	0.000	0.000
Nitrogen Loading (kg/yr)	7.465	11.135
Phosphorus Loading (kg/yr)	2.347	3.480

Post-Condition Landuse Information

Landuse	High-Intensity Commercial: TN=2.40 TP=0.345	High-Intensity Commercial: TN=2.40 TP=0.345
Area (acres)	6.01	8.94
Rational Coefficient (0-1)	0.68	0.68
Non DCIA Curve Number	74.00	74.00
DCIA Percent (0-100)	80.50	80.00
Wet Pond Area (ac)	0.00	0.00

Nitrogen EMC (mg/l)	2.400	2.400
Phosphorus EMC (mg/l)	0.345	0.345
Runoff Volume (ac-ft/yr)	18.111	26.797
Groundwater N (kg/yr)	0.000	0.000
Groundwater P (kg/yr)	0.000	0.000
Nitrogen Loading (kg/yr)	53.593	79.297
Phosphorus Loading (kg/yr)	7.704	11.399

Catchment Number: 1 Name: Sunniland Commons East Outparcel Catchment

Project: Sunniland Commons East
Date: 9/22/2025

0.876 AC-FT RETENTION REQUIRED TO MEET NUTRIENT LOADING, SITE IS ABLE TO RECOVER/SEE RECOVERY ANALYSIS FOR DRAWDOWN

Retention Design

Retention Depth (in)	1.750
Retention Volume (ac-ft)	0.876

Watershed Characteristics

Catchment Area (acres)	6.01
Contributing Area (acres)	6.010
Non-DCIA Curve Number	74.00
DCIA Percent	80.50
Rainfall Zone	Florida Zone 4
Rainfall (in)	53.13

Surface Water Discharge

Required TN Treatment Efficiency (%)	86
Provided TN Treatment Efficiency (%)	86
Required TP Treatment Efficiency (%)	70
Provided TP Treatment Efficiency (%)	86

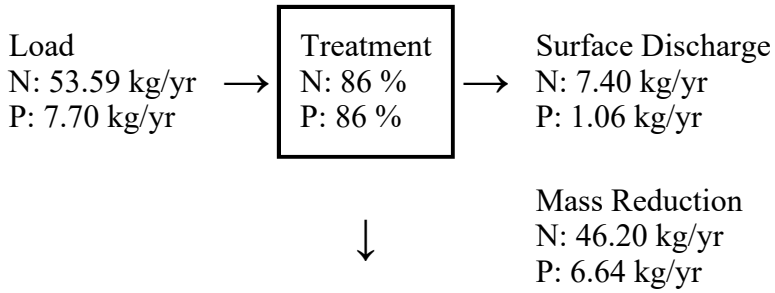
Media Mix Information

Type of Media Mix	Not Specified
Media N Reduction (%)	
Media P Reduction (%)	

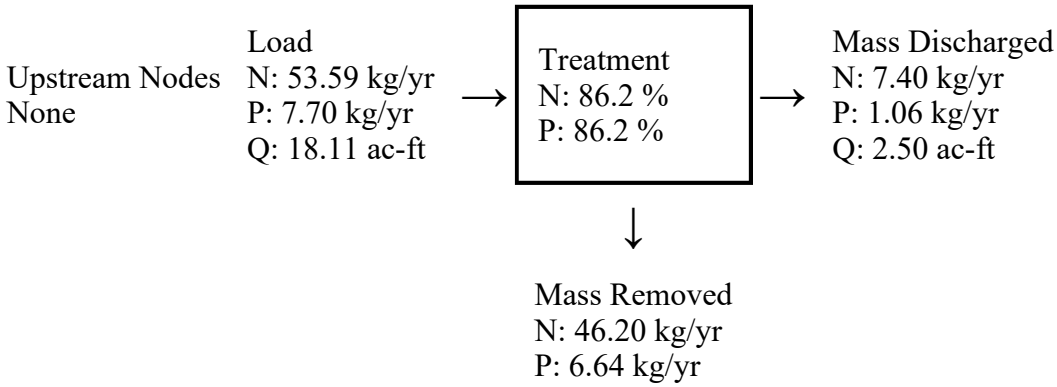
Groundwater Discharge (Stand-Alone)

Treatment Rate (MG/yr)	0.000
TN Mass Load (kg/yr)	46.197
TN Concentration (mg/L)	0.000
TP Mass Load (kg/yr)	6.641
TP Concentration (mg/L)	0.000

Load Diagram for Retention (stand-alone)



Load Diagram for Retention (As Used In Routing)



Catchment Number: 2 Name: Sunniland Commons East Anchor Parcel Catchment

Project: Sunniland Commons East
Date: 9/22/2025

Exfiltration Trench Design

Pipe Span (in)	12.0
Pipe Rise (in)	12.0
Pipe Length (ft)	175.0

Trench Width (ft)	3.0
Trench Depth (ft)	3.0
Trench Length (ft)	175.0
Aggregate Void %	40.00
Storage Volume (Ac-ft)	1.32
Retention Depth (in over CA)	1.776

Watershed Characteristics

Catchment Area (acres)	8.94
Contributing Area (acres)	8.940
Non-DCIA Curve Number	74.00
DCIA Percent	80.00
Rainfall Zone	Florida Zone 4
Rainfall (in)	53.13

Surface Water Discharge

Required TN Treatment Efficiency (%)	86
Provided TN Treatment Efficiency (%)	87
Required TP Treatment Efficiency (%)	69
Provided TP Treatment Efficiency (%)	87

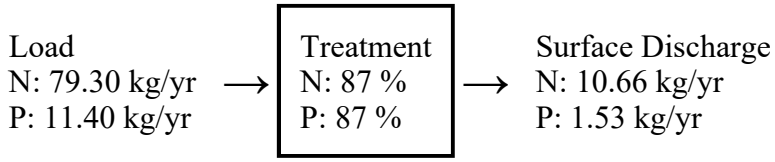
Media Mix Information

Type of Media Mix	Not Specified
Media N Reduction (%)	
Media P Reduction (%)	

Groundwater Discharge (Stand-Alone)

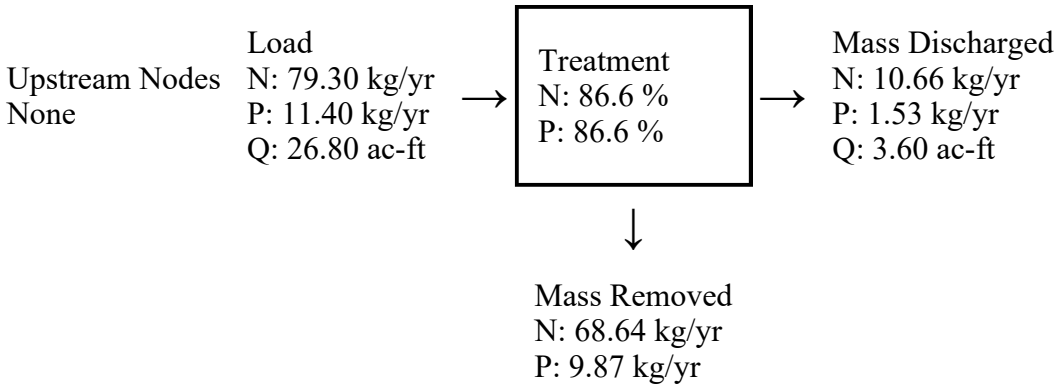
Treatment Rate (MG/yr)	0.000
TN Mass Load (kg/yr)	68.642
TN Concentration (mg/L)	0.000
TP Mass Load (kg/yr)	9.867
TP Concentration (mg/L)	0.000

Load Diagram for Exfiltration Trench (stand-alone)



↓ Mass Reduction
N: 68.64 kg/yr
P: 9.87 kg/yr

Load Diagram for Exfiltration (As Used In Routing)



Summary Treatment Report Version: 4.3.5

Project: Sunniland Commons East

Analysis Type: Net Improvement
BMP Types:
Catchment 1 - (Sunniland Commons East Outparcel Catchment) Retention
Catchment 2 - (Sunniland Commons East Anchor Parcel Catchment) Exfiltration Trench
Based on % removal values to the nearest percent

Date:9/22/2025

Routing Summary
Catchment 1 Routed to Outlet
Catchment 2 Routed to Outlet

Total nitrogen target removal met? **Yes**
Total phosphorus target removal met? **Yes**

Summary Report

Nitrogen

Surface Water Discharge

Total N pre load	18.6 kg/yr
Total N post load	132.89 kg/yr
Target N load reduction	86 %

Target N discharge load	18.6 kg/yr	
Percent N load reduction	86 %	
Provided N discharge load	18.05 kg/yr	39.81 lb/yr
Provided N load removed	114.84 kg/yr	253.22 lb/yr

Phosphorus

Surface Water Discharge

Total P pre load	5.827 kg/yr	
Total P post load	19.103 kg/yr	
Target P load reduction	69 %	
Target P discharge load	5.827 kg/yr	
Percent P load reduction	86 %	
Provided P discharge load	2.595 kg/yr	5.72 lb/yr
Provided P load removed	16.508 kg/yr	36.4 lb/yr

Nutrient Loading Inputs

OUTPARCEL CATCHMENT

Nutrient Loading - East Basin Outparcel Catchment

Area: See Exhibit

6.01 ac

Pre-Development Inputs

Total Pre-Development Catchment Area

Total area in acres for the catchment in pre-development condition. Catchment is a contiguous area where all runoff will accumulate.

Pre-Development Non-DCIA CN

Weighted curve number for portion of catchment which is not DCIA

TR-55, Table 2-2c, woods/grass combination, poor condition, HSG D, CN=86 ***(See FLUCCS Map)***

Existing Impervious Roadway (not considered DCIA)

Area	0.38 ac
CN	98

Existing Green Space, Disturbed/wooded/etc

Area	5.63 ac
CN	86

Non-DCIA CN (Composite of above)
86.8

Pre-Development DCIA Percentage

Percentage of total catchment area that is directly-connected impervious area. Note, areas wet all year are note included.

Existing Site Breakdown: Existing paved areas not considered DCIA for this analysis

0% DCIA

Pre-Development Land Use

Highway	0.38 ac
TN=	1.520
TP=	0.200

Upland Hardwood	5.63 ac
TN=	1.042
TP=	0.346

Composite EMC Values
TN= 1.072
TP= 0.337

Pre-Development Loading

N Loading	7.465 kg/yr
P Loading	2.347 kg/yr

Post Development Inputs

Total Post Development Catchment Area

Total area in acres for the catchment defined at a point where there is a discharge as well as a place for possible BMPs in the post development condition.

6.01 ac

Post Development Non-DCIA Curve Number

The weighted runoff curve number for the portion of the catchment that is not directly connected impervious area in the post-development state. A composite weighted CN can be calculated using average annual runoff.

Pervious Area	1.17 ac
CN for Pervious Area*	74.00
*TR-55, Table 2-2a, open space in good condition, HSG C	

Impervious Area which is Not DCIA, Entire Impervious on basin is DCIA Area, therefore zero

Area	0.00 ac
CN for Impervious Areas	98

Weighted CN=(Pervious Area)(CN Pervious Area) + (Impervious Area not DCIA Area)(CN Impervious Area) / (Pervious Area + Impervious Area)
74.0

Post Development DCIA Percentage

The percentage of the total catchment area that is directly connected impervious area in the post development state. ***Areas wet all year (detention ponds, etc.) are not included in the DCIA calculation.***
The area of internal roadways and sidewalks as well as impervious area (FF and pavement conc from outparcels 3 through 14, Large box stores will be required to direct stormwater directly to dry detention)

This site 100% of Impervious area is DCIA.

Total DCIA Area	4.84 ac
Percent DCIA	80.5%

Assumes 100% of the impervious area is DCIA

Wet Pond Area

The area at the top of the permanent pool or at the control elevation. This area will be subtracted from the overall post-development catchment area when the wet pond is part of the total catchment area. As an alternative, the wet pond area does not have to be included in there catchment area.

Wet Pond Area (Lake Area)	0.00 ac

No lake

Land Use

High Intensity Commercial

TN=	2.400
TP=	0.345

Post Development Loading

N Loading	53.593 kg/yr
P Loading	7.704 kg/yr

ANCHOR PARCEL CATCHMENT

Nutrient Loading - East Basin Anchor Parcel Catchment

Area: See Exhibit

8.94 ac

Pre-Development Inputs

Total Pre-Development Catchment Area

Total area in acres for the catchment in pre-development condition. Catchment is a contiguous area where all runoff will accumulate.

Pre-Development Non-DCIA CN

Weighted curve number for portion of catchment which is not DCIA

TR-55, Table 2-2c, woods/grass combination, poor condition, HSG D, CN=86 ***(See FLUCCS Map)***

Existing Impervious Roadway (not considered DCIA)

Area	0.61 ac
CN	98

Existing Green Space, Disturbed/wooded/etc

Area	8.33 ac
CN	86

Non-DCIA CN (Composite of above)
86.8

Pre-Development DCIA Percentage

Percentage of total catchment area that is directly-connected impervious area. Note, areas wet all year are note included.

Existing Site Breakdown: Existing paved areas not considered DCIA for this analysis

0% DCIA

Pre-Development Land Use

Highway	0.61 ac	Upland Hardwood	8.33 ac
TN=	1.520	TN=	1.042
TP=	0.200	TP=	0.346

Composite EMC Values	
TN=	1.075
TP=	0.336

Pre-Development Loading

N Loading	11.135	kg/yr
P Loading	3.480	kg/yr

Post Development Inputs

Total Post Development Catchment Area

Total area in acres for the catchment defined at a point where there is a discharge as well as a place for possible BMPs in the post development condition.

8.94 ***ac***

Post Development Non-DCIA Curve Number

The weighted runoff curve number for the portion of the catchment that is not directly connected impervious area in the post-development state. A composite weighted CN can be calculated using average annual runoff.

Pervious Area	1.79 ac
CN for Pervious Area*	74.00

*TR-55, Table 2-2a, open space in good condition, HSG C

Impervious Area which is Not DCIA, Entire Impervious on basin is DCIA Area, therefore zero

Area	7.15 ac
CN for Impervious Areas	98

Weighted CN=(Pervious Area)(CN Pervious Area) + (Impervious Area not DCIA Area)(CN Impervious Area) / (Pervious Area + Impervious Area)
93.2

Post Development DCIA Percentage

The percentage of the total catchment area that is directly connected impervious area in the post development state. ***Areas wet all year (detention ponds, etc.) are not included in the DCIA calculation.***
The area of internal roadways and sidewalks as well as impervious area (FF and pavement conc from outparcels 3 through 14, Large box stores will be required to direct stormwater directly to dry detention)

This site 100% of Impervious area is DCIA.

Total DCIA Area	7.15 ac
Percent DCIA	80.0%

Assumes 100% of the impervious area is DCIA

Wet Pond Area

The area at the top of the permanent pool or at the control elevation. This area will be subtracted from the overall post-development catchment area when the wet pond is part of the total catchment area. As an alternative, the wet pond area does not have to be included in there catchment area.

Wet Pond Area (Lake Area)	0.00 ac

No lake

Land Use

High Intensity Commercial

TN=	2.400
TP=	0.345

Post Development Loading

N Loading	79.297	kg/yr
P Loading	11.399	kg/yr

Rainfall Map

Figure 3-3. Locations of Selected Meteorological Sites.

TABLE 3-1

CHARACTERISTICS OF SELECTED METEOROLOGICAL SITES IN FLORIDA

GENERAL LOCATION	MONITORING SITE	MEAN ANNUAL RAINFALL (in/yr)	PERIOD OF RECORD
Panhandle	Pensacola Tallahassee	62.17 64.55	Pensacola: 33 years (1942-2005) Tallahassee: 45 years (1959-2005)
Big Bend Coastal	Cross City	55.14	47 years (1942-2000)
Northeast Coastal	Jacksonville	52.96	64 years (1942-2005)
North Florida	Branford	52.27	53 years (1945-2004)
Central	Orlando	50.03	62 years (1942-2005)
East Central Coastal	Melbourne	47.52	47 years (1942-2005)
West Central Coastal	Tampa	46.07	47 years (1949-2005)
Southwest Coastal	Ft. Myers	53.13	28 years (1960-2003)
Southeast Coastal	Miami	56.92	64 years (1942-2005)
Florida Keys	Key West	39.07	63 years (1942-2005)

Land Use

TABLE 4-1

GENERAL LAND USE CATEGORIES FOR RUNOFF CHARACTERIZATION DATA

GENERAL CATEGORY	DESCRIPTION
Low-Density Residential	Rural areas with lot sizes greater than 1 acre or less than one dwelling unit per acre; internal roadways associated with the homes are also included
Single-Family Residential	Typical detached home community with lot sizes generally less than 1 acre and dwelling densities greater than one dwelling unit per acre; duplexes constructed on one-third to one-half acre lots are also included in this category; internal roadways associated with the homes are also included
Multi-Family Residential	Residential land use consisting primarily of apartments, condominiums, and cluster-homes; internal roadways associated with the homes are also included
Low-Intensity Commercial	Areas which receive only a moderate amount of traffic volume where cars are parked during the day for extended periods of time; these areas include universities, schools, professional office sites, and small shopping centers; internal roadways associated with the development are also included
High-Intensity Commercial	Land use consisting of commercial areas with high levels of traffic volume and constant traffic moving in and out of the area; includes downtown areas, commercial sites, regional malls, and associated parking lots; internal roadways associated with the development are also included
Industrial	Land uses include manufacturing, shipping and transportation services, sewage treatment facilities, water supply plants, and solid waste disposal; internal roadways associated with the development are also included
Highway	Includes major road systems, such as interstate highways and major arteries and thoroughfares; roadway areas associated with residential, commercial, and industrial land use categories are already included in loading rates for these categories
Agriculture	Includes cattle, grazing, row crops, citrus, and related activities
Open/ Undeveloped	Includes open space, barren land, undeveloped land which may be occupied by native vegetation, rangeland, and power lines; this land does not include golf course areas which are heavily fertilized and managed; golf course areas have runoff characteristics most similar to single-family residential areas
Mining/ Extractive	Includes a wide variety of mining activities for resources such as phosphate, sand, gravel, clay, shell, etc.
Wetlands	Include a wide range of diverse wetland types, such as hardwood wetlands, cypress stands, grassed wetlands, freshwater marsh, and mixed wetland associations
Open Water/ Lakes	Land use consists of open water and lakes, rivers, reservoirs, and other open waterbodies

Pre-Development TR-55 Excerpt

PRE-DEVELOPMENT CURVE NUMBER

HSG D

Table 2-2c Runoff curve numbers for other agricultural lands [1/]

Cover description		Curve numbers for hydrologic soil group			
Cover type	Hydrologic condition	A	B	C	D
Pasture, grassland, or range—continuous forage for grazing. [2/]	Poor	68	79	86	89
	Fair	49	69	79	84
	Good	39	61	74	80
Meadow—continuous grass, protected from grazing and generally mowed for hay.	—	30	58	71	78
Brush—brush-weed-grass mixture with brush the major element. [3/]	Poor	48	67	77	83
	Fair	35	56	70	77
	Good	30 [4/]	48	65	73
Woods—grass combination (orchard or tree farm). [5/]	Poor	57	73	82	86
	Fair	43	65	76	82
	Good	32	58	72	79
Woods. [6/]	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	30 [4/]	55	70	77
Farmsteads—buildings, lanes, driveways, and surrounding lots.	—	59	74	82	86

1 Average runoff condition, and $I_a = 0.2S$.

2 *Poor:* <50%) ground cover or heavily grazed with no mulch.
Fair: 50 to 75% ground cover and not heavily grazed.
Good: > 75% ground cover and lightly or only occasionally grazed.

3 *Poor:* <50% ground cover.
Fair: 50 to 75% ground cover.
Good: >75% ground cover.

4 Actual curve number is less than 30; use CN = 30 for runoff computations.

5 CN's shown were computed for areas with 50% woods and 50% grass (pasture) cover. Other combinations of conditions may be computed from the CN's for woods and pasture.

6 *Poor:* Forest litter, small trees, and brush are destroyed by heavy grazing or regular burning.
Fair: Woods are grazed but not burned, and some forest litter covers the soil.
Good: Woods are protected from grazing, and litter and brush adequately cover the soil.

Post Development TR-55 Excerpt

POST DEVELOPMENT CURVE NUMBER

Table 2-2a Runoff curve numbers for urban areas [1/]

Cover description: Cover type and hydrologic condition	Average percent impervious area [2/]	Curve numbers for hydrologic soil group: A	B	C	D
Fully developed urban areas (vegetation established)					
Open space (lawns, parks, golf courses, cemeteries, etc.) [3/]:					
Poor condition (grass cover < 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)		98	98	98	98
Streets and roads:					
Paved; curbs and storm sewers (excluding right-of-way)		98	98	98	98
Paved; open ditches (including right-of-way)		83	89	92	93
Gravel (including right-of-way)		76	85	89	91
Dirt (including right-of-way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only) [4/]		63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1- to 2-inch sand or gravel mulch and basin borders)		96	96	96	96
Urban districts:					
Commercial and business	85	89	92	94	95
Industrial	72	81	88	91	93
Residential districts by average lot size:					
1/8 acre or less (town houses)	65	77	85	90	92
1/4 acre	38	61	75	83	87
1/3 acre	30	57	72	81	86
1/2 acre	25	54	70	80	85
1 acre	20	51	68	79	84
2 acres	12	46	65	77	82
Developing urban areas					
Newly graded areas (pervious areas only, no vegetation) [5/]		77	86	91	94
Idle lands (CN's are determined using cover types similar to those in table 2-2c).					

1 Average runoff condition, and $I_a = 0.2S$.

2 The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system, impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using figure 2-3 or 2-4.

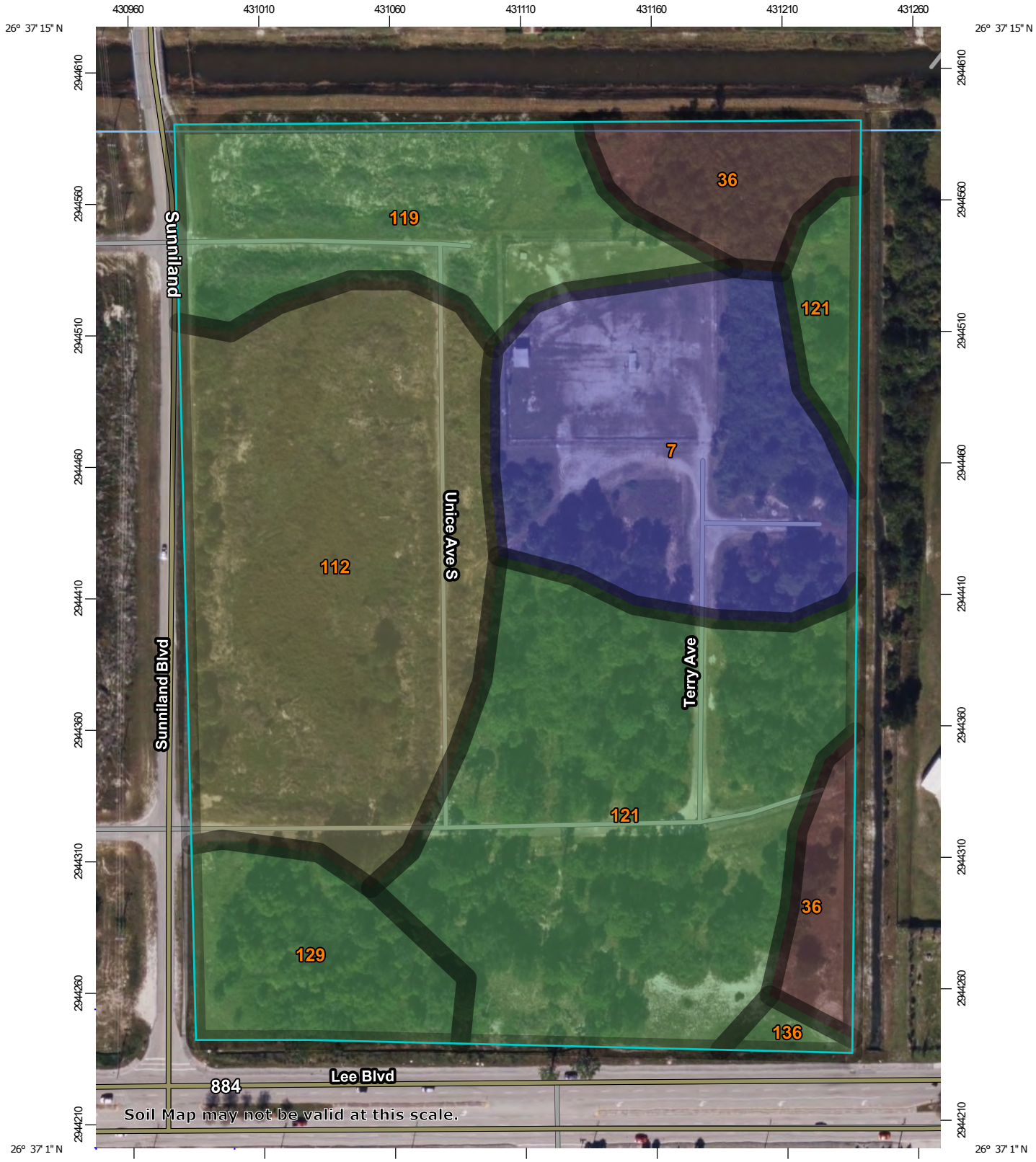
3 CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space cover type.

4 Composite CN's for natural desert landscaping should be computed using figures 2-3 or 2-4 based on the impervious area percentage (CN = 98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.

5 Composite CN's to use for the design of temporary measures during grading and construction should be computed using figure 2-3 or 2-4 based on the degree of development (impervious area percentage) and the CN's for the newly graded pervious areas.

Soils Map – HSG NRCS Web Soil Survey

Hydrologic Soil Group—Lee County, Florida
(East Side HSG Map)



Map Scale: 1:2,080 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Soil Rating Lines

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Soil Rating Points

A
A/D
B
B/D
C
C/D
D
Not rated or not available

Water Features

Streams and Canals

Transportation

Rails
Interstate Highways
US Routes
Major Roads
Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lee County, Florida
Survey Area Data: Version 22, Aug 21, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 14, 2021—Nov 23, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7	Matlacha gravelly fine sand-Urban land complex, 0 to 2 percent slopes	B	3.8	16.9%
36	Immokalee sand-Urban land complex, 0 to 2 percent slopes	B/D	1.6	7.4%
112	Floridana sand, ponded-Urban land complex, 0 to 1 percent slopes	C/D	5.8	26.1%
119	Malabar fine sand-Urban land complex, 0 to 2 percent slopes	A/D	3.0	13.3%
121	Malabar fine sand, high-Urban land complex, 0 to 2 percent slopes	A/D	6.4	28.6%
129	Pineda fine sand-Urban land complex, 0 to 2 percent slopes	A/D	1.6	7.0%
136	Valkaria fine sand-Urban land complex, 0 to 2 percent slopes	A/D	0.2	0.7%
Totals for Area of Interest			**22.4**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

FLUCCS Map

Lehigh Sunniland

SECTION: 26
TOWNSHIP: 44S
RANGE: 26E

0 80 160
SCALE FEET

FLUCCS	Description	Acreage
411E2	Pine Flatwoods Invaded by Exotics (26-50%)	7.49 Ac.±
450	Mixed Exotic Upland Forest	2.17 Ac.±
618E*	Willow Invaded by Exotics (5-9%)	3.28 Ac.±
740	Disturbed Land	4.64 Ac.±
743	Spoil Areas	0.83 Ac.±
748	Cleared Areas	13.62 Ac.±
814	Roads and Highways	1.65 Ac.±
	Total	**33.68 Ac.±**

* Potential SFWMD Jurisdictional Wetlands

Notes:

1. ***Property boundary is approximate and was obtained from the Lee County Property Appraiser's Website.***
2. ***Mapping based on photointerpretation of 2021aerial photography and ground truthing in September 2021.***
3. ***Delineation of jurisdictional wetlands is preliminary and subject to field review/approval by applicable regulatory agencies.***

25-015

Attachment 3. Vegetation Map

OWEN ENVIRONMENTAL CONSULTING, LLC.
FORT MYERS 239-994-9007

Appendix I.2 Recovery Analysis

1. East Basin with Historic Existing Flow (Oil Well Ex Conditions)

Recovery Analysis: East Basin Retention

Recovery Analysis – East Basin Retention

Time/Stage Node-Dry Retention (Abatement Volume)
Dry Retention node set at initial stage required by BMP Trains. The volume required by BMP Trains is 0.884 ac-ft. See enclosed calculations based on retention area. The initial elevation for the slug load is required to be at 20.28 FT-NAVD.

Saturated Horizontal Hydraulic Conductivity
A geotechnical report was completed by Velocity Engineering Services, and the in-situ exfiltration tests were reviewed. The horizontal hydraulic conductivity was determined to be 21.84 ft/day. A copy of the test and location is enclosed in this recovery analysis.

Unsaturated Vertical Hydraulic Conductivity
The MODRET Design manual provides recommendations for determining the vertical permeability, saturated and unsaturated, based on the known horizontal permeability and per the following guidelines and equations:

Saturated Horizontal Conductivity = K_H = 21.84 ft/day

Saturated Vertical Permeability (K_V) = Saturated Horizontal Permeability (K_H)/1.5
K_V = 21.84/1.5 = 14.56 ft/day

Unsaturated Vertical Permeability (K_{VU}) = Saturated Vertical Permeability (K_V)*(2/3)
K_{VU} = 14.56 ft*(2/3) = 9.71 ft/day

Aquifer Base Elevation

Elevation of effective aquifer base is the depth to the semi-conforming soil layer or poorly permeable soil layer that occurs below the stormwater retention pond area. A geotechnical report was completed by Velocity Engineering Services, and the borings were reviewed. The depth to the effective base is approximately 5.75 feet below existing grade. The average existing grade is 22.58 FT-NAVD. Therefore, the elevation of the effective aquifer base is 22.58 FT-NAVD minus 5.75 feet or 16.83 FT-NAVD.

Percolation Link Inputs- Computation Parameters, Rectangular Pond Per StormWise Technical Reference Section 3.4.9.2.9.2.

Perimeter 1: P1=2(L+W)=2(1,159+127)=2,572 ft
Perimeter 2: P1+2πr=2,572 + 2*π*50=2,886 ft
Perimeter 3: P1+2πr=2,572 + 2*π*450=5,398 ft
Distance P1 to P2: 50 ft
Distance P2 to P3: 450 ft
# of Cells P1 to P2: 5
# of Cells P2 to P3: 10

Retention Elevation Calculation

Basin East - Determine Retention Elevation Based on the Required Volume in BMP Trains

Required from BMP Trains: 0.876 ac-ft

Actual Water Quality Treated in Dry Detention

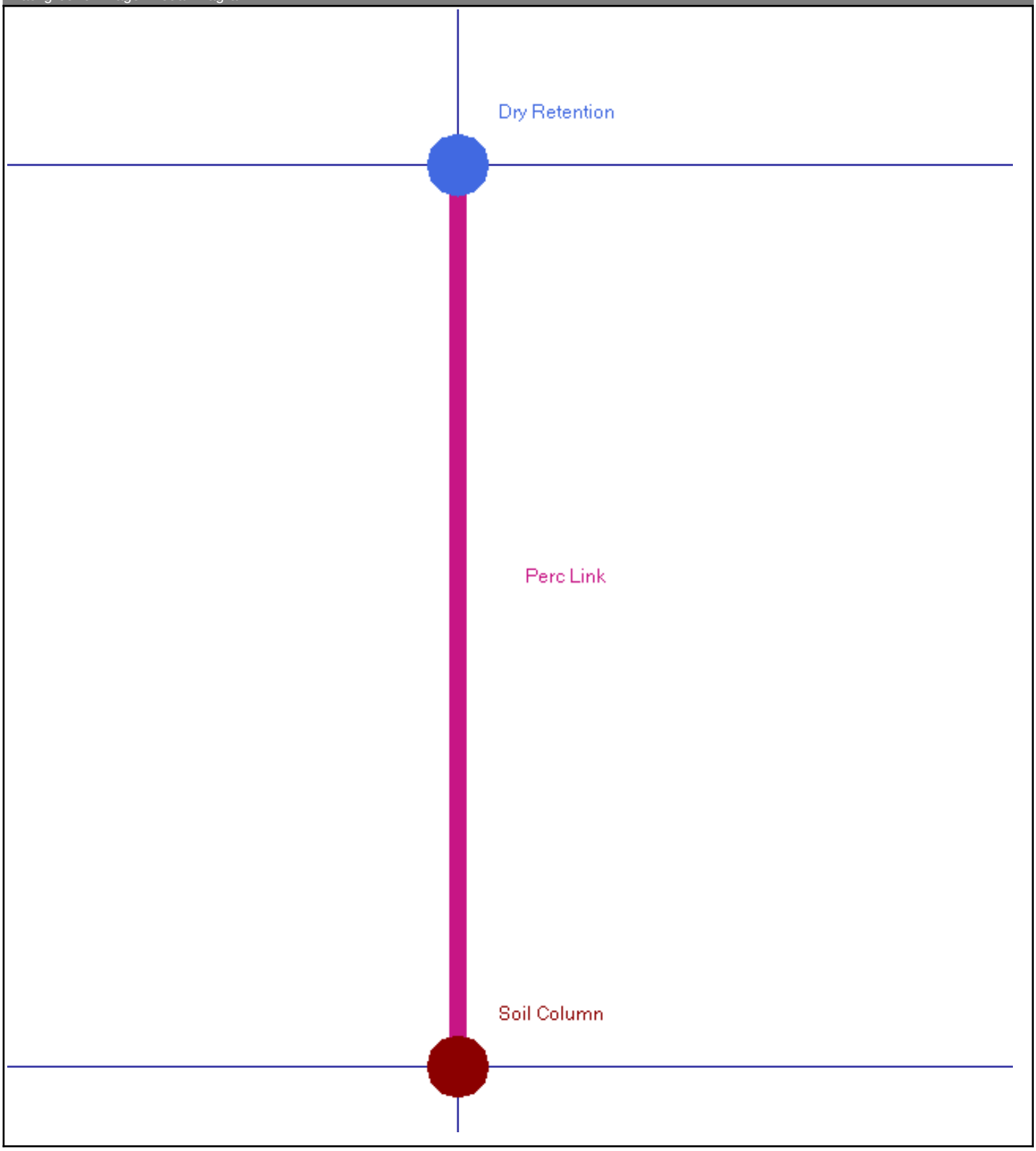
INITIAL STAGE SLUG LOAD SET AT 20.28 FT-NAVD

Stage (ft)	Area (ac)	Storage (ac-ft)
20.00	3.08	0.00
20.28	**3.13**	**0.91**
22.00	3.42	6.50

Volume Treated in dry detention area 2= **0.91 ac-ft** per stage/storage at structure

StormWise Input Summary

Background Image: Nodal Diagram



Node: Dry Retention

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 20.28 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.00	3.0800	134165
20.28	3.1300	136343
22.00	3.4200	148975

Comment: Required initial stage is 20.28 FT-NAVD to provide required retention to support thbe nutrient loading analysis

Node: Soil Column

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	19.00
0	0	0	90.0000	19.00

Comment:

Percolation Link: Perc Link

Scenario: Scenario1
From Node: Dry Retention
To Node: Soil Column
Link Count: 1
Flow Direction: Both
Aquifer Base Elevation: 16.83 ft
Water Table Elevation: 19.00 ft
Annual Recharge Rate: 0 ipy
Horizontal Conductivity: 21.840 fpd
Vertical Conductivity: 14.560 fpd
Fillable Porosity: 0.200
Layer Thickness: 1.00 ft

Surface Area Option: Use 1st Point in Stage/Area Table
Vertical Flow Termination: Horizontal Flow Algorithm
Perimeter 1: 2572.00 ft
Perimeter 2: 2886.00 ft
Perimeter 3: 5398.00 ft
Distance P1 to P2: 50.00 ft
Distance P2 to P3: 450.00 ft
# of Cells P1 to P2: 5
# of Cells P2 to P3: 10

Comment:

Simulation: Slug Load

Scenario: Scenario1
Run Date/Time: 9/19/2025 11:29:41 AM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	80.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

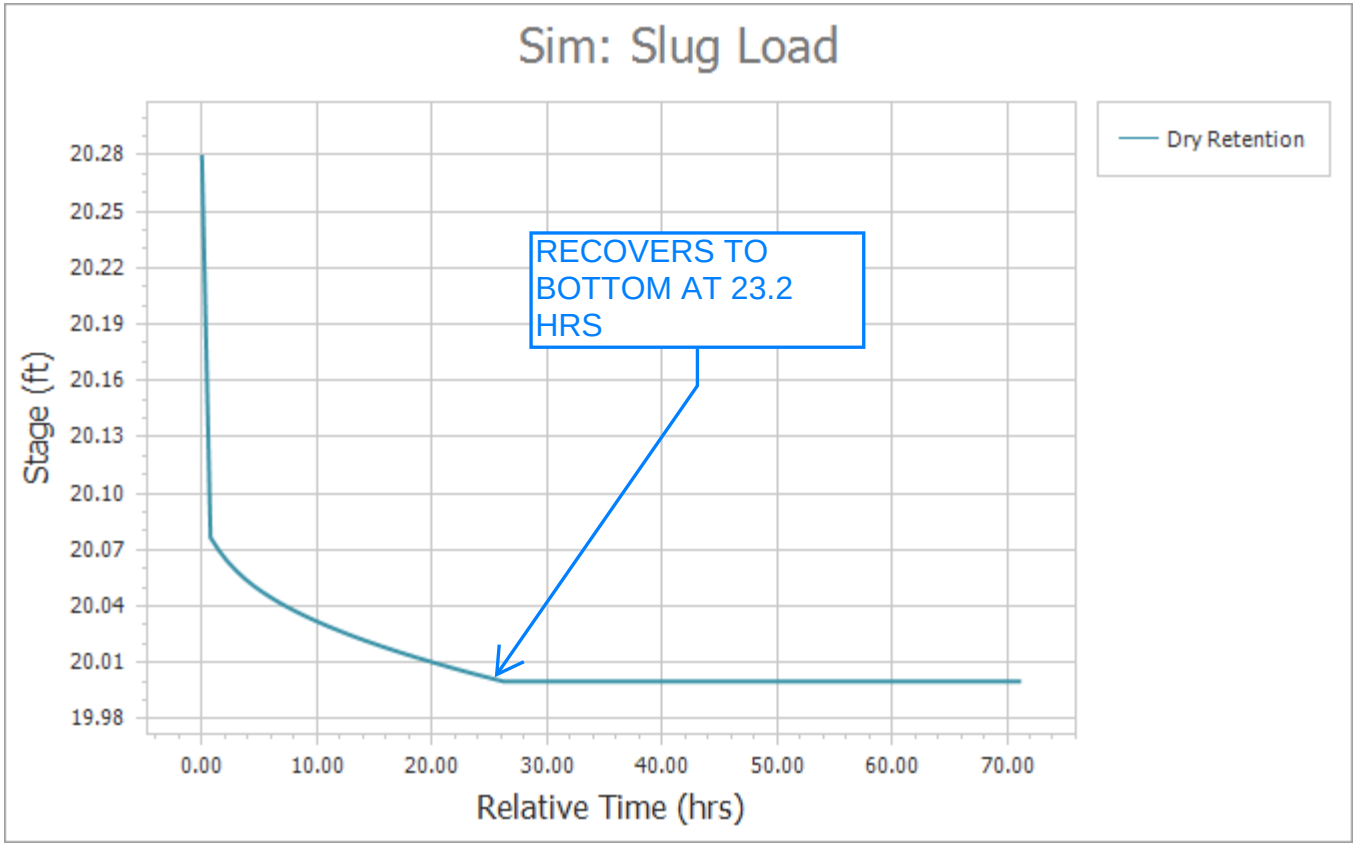
Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: No Rainfall
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Recovery Chart


Sim: Slug Load
Dry Retention
RECOVERS TO BOTTOM AT 23.2 HRS
Stage (ft)
20.28
20.25
20.22
20.19
20.16
20.13
20.10
20.07
20.04
20.01
19.98
0.00
10.00
20.00
30.00
40.00
50.00
60.00
70.00
Relative Time (hrs)

Geotechnical Information

inch drop to drive a 2-inch (outside) diameter hollow tube called a "split-spoon". The number of hammer blows required to drive the split-spoon 12 inches is called the "N Value" and is an indication of the relative density of the soil(s). The split-spoon also captures samples of the soil(s) so they can be retrieved. An auto-hammer was utilized to perform the SPT borings on this project.

In-situ exfiltration testing was performed to determine the requested hydraulic conductivity of the soils at the project site. Velocity performed two (2) hand auger (HA) borings to depths of approximately 7.8 and 9.0 feet BGS. The HA borings were advanced using manually operated hand augering equipment. Upon completion of the HA boring, well screen was installed, and exfiltration tests (EX-1) were performed in general accordance with the SFWMD Usual Open Hole Test procedure.

The approximate SPT and exfiltration test locations are depicted in Figure 2, Testing Location Plan. The exfiltration test results are summarized in the table below:

Exfiltration Test Results

Test Number	Observed Water Table (ft BGS)	Depth of Bore Hole (ft BGS)	Hydraulic Conductivity	
			K ($ft^3/sec/ft^2$ - ft of head)	K' (ft/day)
EX-1	7.7	7.8	6.7E-04	57.96
EX-2	6.5	9.0	2.5E-04	21.84

K' was calculated by unit conversion from K per foot of head.

2.3 Laboratory Examination

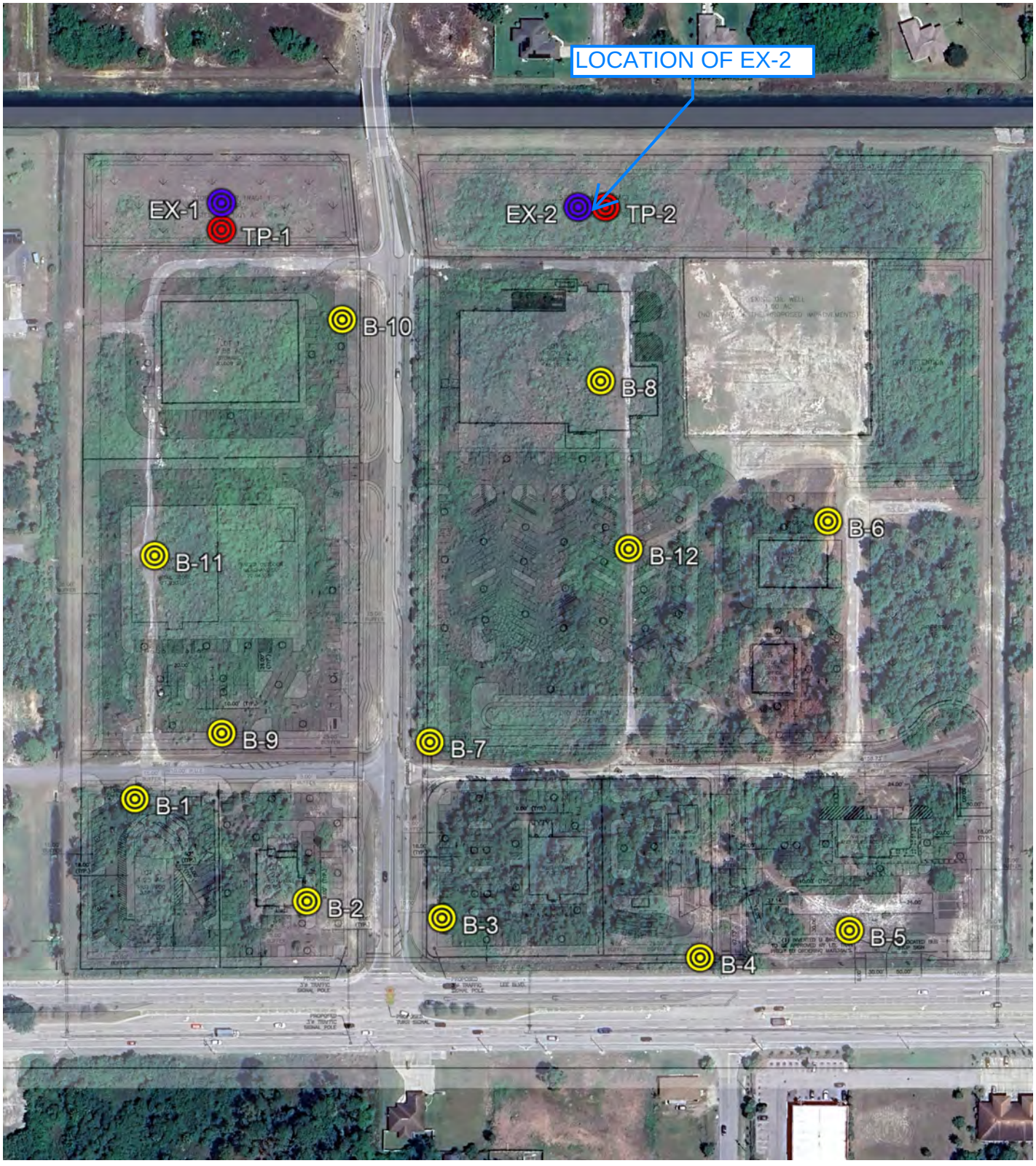
The soil samples retrieved during the field exploration program were visually examined in general accordance with ASTM D2488 "*Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*". Each soil sample was classified in general accordance with the Unified Soil Classification System (USCS), modified as necessary to describe typical southwest Florida soils. Additional laboratory testing was not included in our scope of services, nor was it deemed necessary at this time.

The soil samples will be retained at Velocity's office for 30 days from the date of this report. The samples will then be disposed of unless other arrangements, such as the client taking possession of them or Velocity retaining them beyond this date, have been agreed upon in writing.

During the visual inspection of the soil samples, Velocity identified the presence of phosphate in SPT borings B-10 and B-11 at depths ranging from approximately 13.5 feet BGS to the boring termination depths of approximately 20 feet BGS. Radium-226, the source of radon gas, is often found in phosphate. Therefore, Velocity recommends that consideration be given to performing laboratory testing to determine if Radium-226 is present in the soils at the site.

2.4 Subsurface Soil Conditions

The subsurface soil conditions encountered in the SPT borings at the site generally consist of very loose to very dense sand (SP), sand with silt (SP-SM), silty sand (SM), and weathered limestone (WLS) and soft to firm silt (ML) from the existing ground surface to the boring termination depths of approximately 20 feet BGS.



Velocity ENGINEERING SERVICES

FIGURE 2 — TESTING LOCATION PLAN

Lee & Sunniland Development

3650 and 3614 5th Street West

Lehigh Acres, Lee County, Florida

Velocity Project Number: 22-342

KEY TO BORING LOGS

Major Division			Group Symbols	Typical Names
COARSE-GRAINED SOILS (50% of the material retained on No. 200 sieve)	Gravels (>50% retained on No. 4 sieve)	Clean Gravel	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
			GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
		Gravel w/Fines	GM	Silty gravels, gravel-sand-silt mixtures
			GC	Clayey gravels, gravel-sand-silt mixtures
	Sands (<50% passes No. 4 sieve)	Clean Sands	SW	Well-graded sands, gravelly sands, little or no fines
			SP	Poorly-graded sands, gravelly sands, little or no fines
		Sand w/ Fines	SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, sand clay mixtures
FINE-GRAINED SOILS (>50% of the material passes No. 200 sieve)	Silts and Clays (Liquid limit < 60)		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL	Organic silts and organic silty clays of low plasticity
	Silts and Clays (Liquid limit > 60)		MH	Inorganic silts micaceous or distomaceous fine sandy or silty soils, organic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity, organic silts
Highly Organic Soils			PT	Peat and other highly organic soils
Limestones			LS	Limestone layer
			WLS	Weathered and/or deteriorated limestone

DENSITY of SANDS, GRAVELS, and WEATHERED LIMESTONE

N Value	Density
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
50+	Very Dense

CONSISTENCY of SILTS & CLAYS

N Value	Density
0-2	Very Soft
3-4	Soft
5-8	Firm
9-15	Stiff
16-30	Very Stiff
30+	Hard

HARDNESS OF LIMESTONE

N Value	Density
50-99	Soft
100+	Hard

PROPORTIONS

Content	Description
0-10%	With a Trace
10-25%	With Some
25-50%	With

*Recovery is 100% unless noted otherwise

ORGANIC SOIL PROPORTIONS

Organic Content	Description
0-2%	With a Trace of Organics
2-5%	With Some Organics
5-20%	With Organics / Peat
20-100%	Highly Organic / Peat

ABBREVIATIONS

WT	Water table at time of boring	**Moisture**	Moisture Content per ASTM D2216
HA	Boring advanced using Hand Auger	**-200**	% passing #200 sieve per ASTM D1140
~	Approximated N value due to refusal	**Organics**	Organic Content per ASTM D2974
		LL, PL, PI	Atterberg Limits per ASTM D4318

BORING LOG NUMBER: B-1

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/24/25 **GROUNDWATER:** 5.0 ft

NOTES:

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0		2 2 4 5	6		**SAND (SP)** **Loose**	Brown with traces of rock and root
		6 4 5 4	9		**SAND WITH SILT (SP-SM)** **Loose**	Brown
5 WT		3 4 12 7	16		**SILTY SAND (SM)**	Tan with rock
		5 3 2 1	5		**Loose to Medium Dense**	Tan with rock
		2 3 8 10	11		**WEATHERED LIMESTONE (WLS)**	Tan with silty sand
10						Medium drilling encountered from 10 to 16 feet BGS
		5 7 9	16			Light brown
15					**Medium Dense**	Loss of circulation of the drilling fluid at 16 feet BGS
		8 15 13	28			Light tan with a trace of silty sand
20						Boring terminated at 20 feet BGS
25						
30						

BORING LOG NUMBER: B-2

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/24/25 **GROUNDWATER:** 6.0 ft

NOTES:

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0	X	1 3 5 7	8		**SAND (SP)** **Loose**	Brown with a trace of root
	X	5 5 4 3	9		**SILTY SAND (SM)**	Brownish gray
5	X	1 1 3 5	4		**Very Loose to Loose**	Tan with some rock
WT	X	5 4 4 6	8		**SILT (ML)** **Firm**	Tan with a trace of rock
	X	3 2 3 4	5		**SAND WITH SILT (SP-SM)**	Brown with a trace of rock
10					**Loose**	
	X	6 12 14	26		**WEATHERED LIMESTONE (WLS)**	Light tan
15						Medium drilling encountered from 15 to 17 feet BGS
					Medium Dense	Loss of circulation of the drilling fluid at 17 feet BGS
	X	9 7 4	11			Light tan
20						Boring terminated at 20 feet BGS
25						
30						

BORING LOG NUMBER: B-3

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/24/25 **GROUNDWATER:** 5.0 ft

NOTES:

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0		1 2 6 4	8		**SAND (SP)** **Loose**	Light brown
		3 3 4 6	7		**SILTY SAND (SM)**	Light brown
5 WT		5 6 7 4	13			Light brown
		3 4 9 13	13		**Loose to Medium Dense**	Light brown
		6 5 50/1"	100+			Brownish gray with a trace of rock
					LIMESTONE (LS) **Hard**	Brown
10					**WEATHERED LIMESTONE (WLS)**	Medium to hard drilling encountered from 9 to 17 feet BGS
		7 9 5	14			Light tan
15						Loss of circulation of the drilling fluid at 15 feet BGS
					Medium Dense	
		6 8 12	20			Light tan
20						Boring terminated at 20 feet BGS
25						
30						

BORING LOG NUMBER: B-4

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/25/25 **GROUNDWATER:** 6.0 ft

NOTES:

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0	X	1 1 2 3	3		**SAND (SP)**	Light brown
	X	7 9 8 5	17		**Very Loose to Medium Dense**	Light brown
5	X	3 2 2 4	4		**SILTY SAND (SM)**	Grayish brown
WT	X	1 1 3 5	4		**Very Loose**	Grayish brown with some weathered limestone
	X	4 7 6 8	13		**WEATHERED LIMESTONE (WLS)**	Brown with a trace of silty sand
10					**Medium Dense**	Medium drilling encountered from 10 to 13.5 feet BGS Loss of circulation of the drilling fluid at 10 feet BGS
	X	20 50/1"	100+		**LIMESTONE (LS)** **Hard**	Tan Tan
15					**WEATHERED LIMESTONE (WLS)**	Medium to hard drilling encountered from 14 to 18 feet BGS
	X	10 7 6	13		**Medium Dense**	Light gray with a trace of silty sand
20						Boring terminated at 20 feet BGS
25						
30						

BORING LOG NUMBER: B-5

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/25/25 **GROUNDWATER:** 6.0 ft

NOTES:

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0	X	1 3 5 7	8		**SAND (SP)**	Light gray
	X	6 7 8 9	15		**Loose to Medium Dense**	Gray
5	X	5 4 3 2	7		**SILTY SAND (SM)**	Dark gray
WT	X	2 2 5 8	7		**Loose**	Dark gray
	X	1 2 4 3	6		**WEATHERED LIMESTONE (WLS)**	Tan with silty sand Brown with silty sand
10					**Loose**	Medium drilling encountered from 10 to 14 feet BGS Loss of circulation of the drilling fluid at 10 feet BGS
	X	14 50/2"	100+		**LIMESTONE (LS)** **Hard**	Tan Tan
15					**WEATHERED LIMESTONE (WLS)**	Medium to hard drilling encountered from 14 to 17 feet BGS
	X	8 9 7	16		**Medium Dense**	Light gray with a trace of silty sand
20						Boring terminated at 20 feet BGS
25						
30						

BORING LOG NUMBER: B-6

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/25/25 **GROUNDWATER:** 6.0 ft

NOTES:

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0						
	X	1 2 4 5	6		**SAND (SP)** **Loose**	Tan
	X	6 5 4 3	9		**SAND WITH SILT (SP-SM)** **Loose**	Brownish gray
5	X	2 2 3 7	5		**SILTY SAND (SM)** **Loose**	Brownish gray
WT	X	7 5 4 3	9		**WEATHERED LIMESTONE (WLS)** **Loose**	Tan with silty sand
	X	13 50/2"	100+		**LIMESTONE (LS)** **Hard**	Lght brown with a trace of silty sand Light brown Medium to hard drilling encountered from 8.5 to 17 feet BGS
10					**WEATHERED LIMESTONE (WLS)**	Loss of circulation of the drilling fluid at 11 feet BGS
	X	10 12 9	21		**Medium Dense**	Light gray with a trace of silty sand
15						
	X	11 7 6	13		**SILTY SAND (SM)** **Medium Dense**	Light gray with weathered limestone
20						Boring terminated at 20 feet BGS
25						
30						

BORING LOG NUMBER: B-7

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/24/25 **GROUNDWATER:** 5.0 ft

NOTES:

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0						
	X	1 1 4 7	5		**SAND (SP)** **Loose**	Light brown
	X	4 6 3 4	9		**SILTY SAND (SM)** **Loose**	Brownish gray
	X	2 2 11 8	13			Brownish gray
5 WT						
	X	3 3 3 5	6			Tan with a trace of silty sand
	X	4 3 5 3	8		**WEATHERED LIMESTONE (WLS)**	Tan with some silty sand
10						Medium drilling encountered from 10 to 17 feet BGS Loss of circulation of the drilling fluid at 10 feet BGS
	X	6 8 14	22		**Loose to Medium Dense**	Light gray
15						
	X	7 9 5	14			Light gray
20						Boring terminated at 20 feet BGS
25						
30						

BORING LOG NUMBER: B-8

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/25/25 **GROUNDWATER:** 5.0 ft

NOTES:

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0						
	X	1 1 2 2	3		**SAND (SP)** **Very Loose**	Dark brown with a trace of rock
	X	1 1 4 4	5		**SILTY SAND (SM)**	Dark gray
	X	2 2 8 10	10		**WEATHERED LIMESTONE (WLS)**	Tan with a trace of silty sand Light tan with some silty sand
5 WT	X	4 8 15 18	23		**Loose to Medium Dense**	Light tan with a trace of silty sand
	X	50/1"	100+		**LIMESTONE (LS)** **Hard**	Light tan Medium to hard drilling encountered from 8 to 17 feet BGS
10					**WEATHERED LIMESTONE (WLS)**	Loss of circulation of the drilling fluid at 10 feet BGS
	X	5 6 5	11			Light tan with a trace of silty sand
15					**Medium Dense**	
	X	7 6 8	14			Light tan with silty sand
20						Boring terminated at 20 feet BGS
25						
30						

BORING LOG NUMBER: B-9

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/24/25 **GROUNDWATER:** 5.0 ft

NOTES:

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0	X	1 1 3 5	4		**SAND (SP)**	Tan with a trace of root
	X	7 8 5 5	13		**Very Loose to Medium Dense**	Grayish brown
5 WT	X	4 2 2 1	4		**SILTY SAND (SM)** **Very Loose**	Light brown with a trace of root
	X	2 4 4 3	8		**SAND WITH SILT (SP-SM)** **Loose**	Orangish gray with a trace of weathered limestone
	X	2 2 1 1	3		**WEATHERED LIMESTONE (WLS)**	Tan with silty sand
10						
	X	4 6 5	11			Light tan
15					**Very Loose to Very Dense**	Medium drilling encountered from 16 to 18 feet BGS Loss of circulation of the drilling fluid at 16 feet BGS
	X	19 28 36	64			Light tan
20						Boring terminated at 20 feet BGS
25						
30						

BORING LOG NUMBER: B-10

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/25/25 **GROUNDWATER:** 6.0 ft

NOTES:

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0						
		1 3 4 5	7		**SAND (SP)** **Loose**	Dark gray with a trace of root
		1 3 3 5	6		**SILTY SAND (SM)** **Loose**	Brownish gray with a trace of root
5		4 2 2 2	4		**SILT (ML)** **Soft**	Tan with a trace of root
WT		1 2 6 8	8		**SILTY SAND (SM)** **Loose**	Tan with weathered limestone
		2 1 9 14	10		**WEATHERED LIMESTONE (WLS)**	Light tan with a trace of silty sand
10						Medium drilling encountered from 12 to 17 feet BGS
		7 8 10	18		**Loose to Medium Dense**	Light gray with silty sand and a trace of phosphate
15						Loss of circulation of the drilling fluid at 15 feet BGS
		9 6 4	10		**SILTY SAND (SM)** **Loose**	Light gray with weathered limestone and a trace of phosphate
20						Boring terminated at 20 feet BGS
25						
30						

BORING LOG NUMBER: B-11

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/24/25 **GROUNDWATER:** N/A ft

NOTES: Groundwater table not encountered prior to the initiation of mud rotary drilling

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0	X	1 5 8 28	13		**SAND WITH SILT (SP-SM)** **Medium Dense**	Light brown with rock
	X	31 50/1"	100+		**WEATHERED LIMESTONE (WLS)**	Tan with a trace of silt
					LIMESTONE (LS) **Hard**	Tan Hard drilling encountered from 2.5 to 4 feet BGS
5	X	7 12 10 8	22		**WEATHERED LIMESTONE (WLS)**	Tan with some silt
	X	3 3 3 2	6			Tan with some silt
	X	2 2 1 2	3		**Very Loose to Medium Dense**	Tan with a trace of silt Loss of circulation of the drilling fluid at 8 feet BGS
10						
	X	2 1 1	2		**SILTY SAND (SM)**	Light gray with weathered limestone and a trace of phosphate
15					**Very Loose**	
	X	1 2 1	3			Light gray with weathered limestone and a trace of phosphate
20						Boring terminated at 20 feet BGS
25						
30						

BORING LOG NUMBER: B-12

PROJECT: Lee & Sunniland Development

PROJECT No.: 22-342 **DATE:** 6/25/25 **GROUNDWATER:** 6.0 ft

NOTES:

DEPTH (FEET) & Water Table	SAMPLE	BLOWS / 6"	"N" VALUE BLOWS / FT.	SYMBOL	SOIL DESCRIPTION	NOTES
0						
	X	1 5 10 8	15		**SAND (SP)** **Medium Dense**	Brown with a trace of rock
	X	4 2 4 8	6		**SAND WITH SILT (SP-SM)** **Loose**	Dark brown
5	X	5 4 2 1	6		**SILTY SAND (SM)** **Loose**	Dark gray to tan with a trace of weathered limestone
WT	X	1 1 6 4	7		**WEATHERED LIMESTONE (WLS)**	Brown with silty sand
	X	1 2 1 9	3			Light tan with a trace of silty sand
10						Medium drilling encountered from 11 to 18 feet BGS
						Loss of circulation of the drilling fluid at 12 feet BGS
	X	16 8 5	13		**Very Loose to Medium Dense**	Light gray
15						
	X	5 4 6	10		**SILTY SAND (SM)** **Loose**	Light gray with weathered limestone
20						Boring terminated at 20 feet BGS
25						
30						

Pre-Development Nutrient Loading Map

Appendix I.3 East Basin Design – Scenario 1 with Historic Oil Well Flow

Basin Exhibit

Land Use Breakdown - Buildout and Site Data

Water Quantity Calculations

Water Quality Calculations

Time of Concentration, Allowable Discharge, and Bleed Down

I.3A StormWise Input Summary, 10 Year Storm (TW differs from 25 year)

I.3B 10 Year Node Max

I.3C StormWise Input Summary, 25 Year Storm (TW differs from 10 year)

I.3D 25 Year Node Max

I.3E 25 Year Link Max

I.3F 25 Year Node Time Series

I.3G 25 Year Node Volume

I.3H 100 Year Node Max

I.3I 100 Year Zero Discharge Link

I.3J 25 Year Back to Back, Input Summary

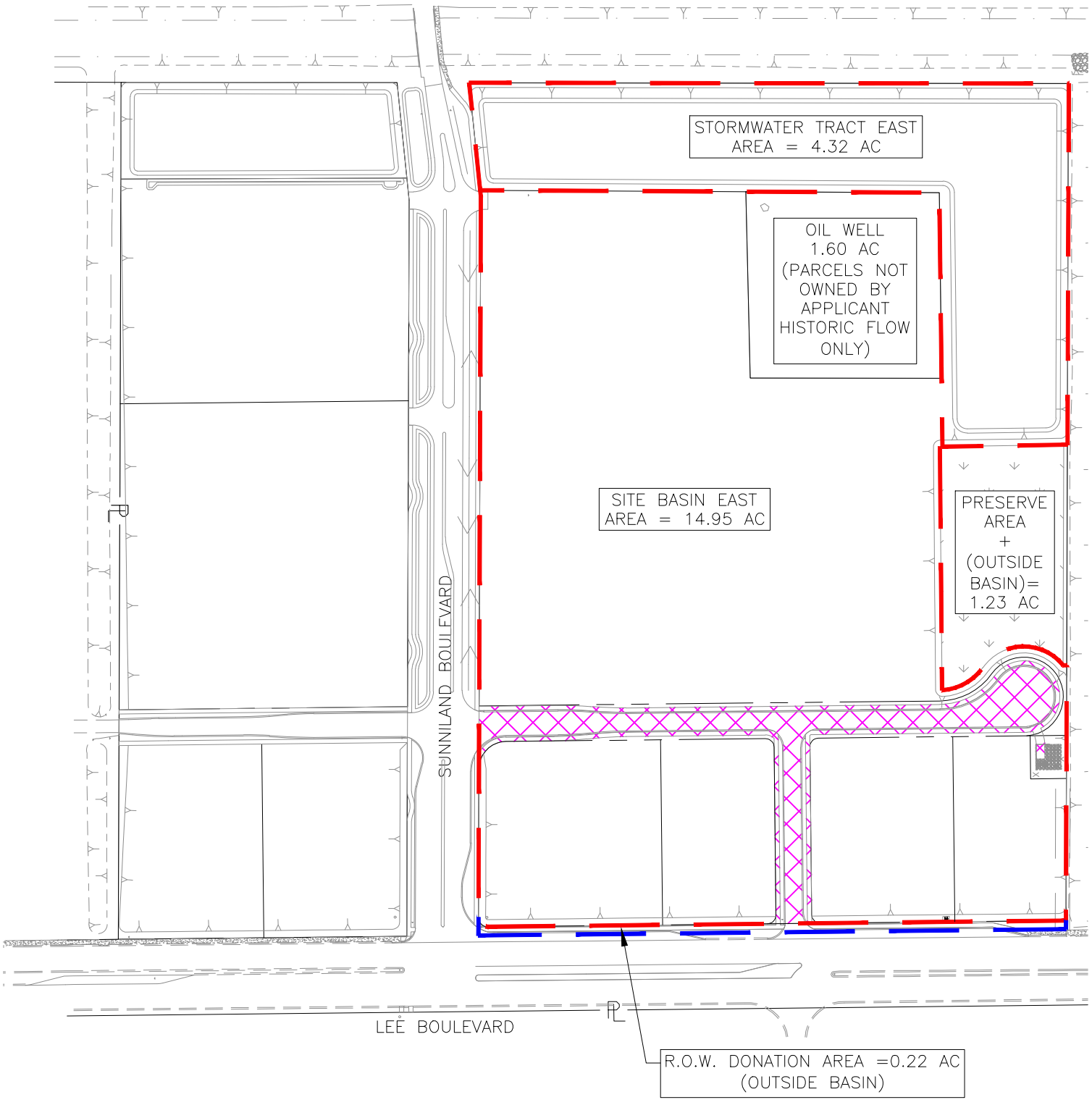
I.3K 25 Year Back to Back, Node Max

Basin Exhibit

BASIN AREA = PARCEL AREA – PRESERVE/BUFFER AREA – R.O.W. DONATION AREA (LEE BLVD.) =
20.72 AC–1.23 AC–0.22 AC= 19.27 AC

HISTORIC FLOW OIL WELL = 1.60 AC

TOTAL = 19.27 AC + 1.60 AC = 20.87 AC



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EAST BASIN MAP WITH HISTORIC FLOW (OIL WELL)

SUNNILAND COMMONS

LEE COUNTY, FL

COMPLETION DATE:	PROJECT:	DRAFTED BY:	DESIGNED BY:	REVIEWED BY:	SHEET:
08–29–25	8844	KG	KG	RJT	01

S:\Jobs\88xx\8844\Engineering\EXHIBITS\8844-EAST BASIN MAP WITH HISTORIC BASIN FLOW.dwg, 9/22/2025 3:43:41 PM, KEVIN GONZALEZ, ATWELL, LLC

1. East Basin with Historic Existing Flow (Oil Well Ex Conditions)

Sunniland Commons East Basin: Scenario 1 , Existing Conditions with Oil Well Historic Flow (Lots 5 to 9, FGUA Lift Station Parcel, Private ROW in Basin, and Stormwater Tract 2), Basin Area excludes 1.18 ac preserve tract, 0.22 ac compensating ROW for Lee BLVD, and LB East of preserve, 20.72 ac-1.18 ac-0.22 ac-0.05=19.27 ac

Lots 5 to 9 & FGUA Parcel	Lot Area (acres)	Impervious Area (Taken as 80% of Lot)	Building (Taken as 20% of Impervious Area for lots)	Pavement/Concrete	Open Space (acres)	Percent Impervious Check
Lot 5	8.94	7.15	1.43	5.72	1.79	80.0%
Lot 6	1.36	1.09	0.22	0.87	0.27	80.0%
Lot 7	1.14	0.91	0.18	0.73	0.23	80.0%
Lot 8	1.10	0.88	0.18	0.70	0.22	80.0%
Lot 9	0.86	0.69	0.14	0.55	0.17	80.0%
FGUA Lift Station Parcel	0.07	0.03	0.00	0.03	0.04	42.9%
	13.47	10.75	2.14	8.61	2.72	

Lots 5 to 9 & FGUA Parcel	Impervious Area	Building Area	Pavement/Concrete	Open Space	Percent Impervious Check
	10.75	2.14	8.61	2.72	85.2%

Private ROW and Buffer Tract in Basin		
Pavement/Concrete	1.24	ac
Open Space	0.24	ac
Total	1.48	ac

Stormwater Tract 2		
Retention Bottom	3.08	ac
Retention Bank	0.34	ac
Open Space	0.90	ac
Total	4.32	ac

Totals		
Building Area (Future Parcels)	2.14	ac
Pavement/Concrete (Pavement ROW, Sidewalk ROW, Pavement/Concrete Parcels)	9.85	ac
Dry Retention Bottom	3.08	ac
Dry Retention Bank	0.34	ac
Open Space	3.86	ac
Total	19.27	ac

Exist. Historic Flow (Oil Well)		
Open Space	1.60	ac

Total Area with Historic Flow (Current Condition)	20.87	ac

Water Quantity Calculations

Sunniland Commons - Overall East Total Basin and Exist. Oil Well Historic Flow

Water Quantity Spreadsheet	
Lake Control (FT-NAVD)	19.00
Dry Retention Bottom (FT-NAVD)	20.00
Lake-TOB (FT-NAVD)	22.00
Parking (FT-NAVD)	23.00
Roads and 2nd Break (FT-NAVD)	24.50
Finished Floor (FT-NAVD)	26.00
Lake	
Area (AC)	0.00
Dry Retention Bottom	
Area (AC)	3.08
Dry Retention Bank	
Area (AC)	0.34
Open	
Area (AC)	3.86
Parking and Roadway	
Area (AC)	9.85
FF	
Area (AC)	2.14
Total Acres	19.27

Historic Flow From Oil Well Area (ac)	1.60	ac

Total Area with Historic Flow (ac)	20.87	ac

Impervious Area

FF + Parking and Roadway
11.99 ac
57.5%

DCIA

Site is taken as 100% DCIA
11.99 ac
100.0%

Curve Number

CN= 1000 / (10 + Sd)
CN= 1000 / 10 + 6.8
CN= 60

Soil Storage

Soil Compaction Factor= 25%
Depth to Water Table= 3.5 ft.
Soil Storage for pervious areas = Sd = 6.8 Inches

Depth to Water Table	Natural Available Storage	Developed Available Storage
0	0.00	0
1	0.60	0.45
1.5	1.50	1.10
2	2.50	1.88
2.5	4.50	3.40
3	6.60	4.95
3.5	8.90	6.80
4	10.90	8.18

Sunniland Commons - Site Basin East with Historical Flow from Oil Well Parcel in Middle

Site Basin East	*14.95 ac*
Oil Well Historic Flow	*1.60 ac*
Total	16.55 ac

Site Basin East

Water Quantity Spreadsheet	
Lake Control (FT-NAVD)	19.00
Dry Retention Bottom (FT-NAVD)	20.00
Lake-TOB (FT-NAVD)	22.00
Parking (FT-NAVD)	23.00
Roads and 2nd Break (FT-NAVD)	24.50
Finished Floor (FT-NAVD)	26.00
Lake	
Area (AC)	0.00
Dry Retention Bottom	
Area (AC)	0.00
Dry Retention Bank	
Area (AC)	0.00
Open	
Area (AC)	2.96
Parking and Roadway	
Area (AC)	9.85
FF	
Area (AC)	2.14
Total Acres	14.95

Oil Well Parcel Included for Historic Flow Only

No credit taken for ultimate discharge rate or water quality. At time of buildout they will be required to connect to LAMSID Canal via proposed 15 ft DE vai their own SWM System.

	Stage (FT-NAVD)	Area (Ac)
Oil Well Area	23.50	1.60

Site Basin East Stage/Area

Stage (FT-NAVD)	Area (AC)	Storage (AC-FT)
19.00	0.00	0.00
20.00	0.00	0.00
22.00	0.00	0.00
23.00	6.41	0.00
24.50	12.07	13.86
26.00	12.81	32.52

*Site Basin East + Oil Well **Combined***

Stage (FT-NAVD)	Area (AC)
19.00	0.00
20.00	0.00
22.00	0.00
23.00	6.41
23.50	8.01
24.50	13.67
26.00	14.41

Impervious , FF + Parking and Roadway
11.99 ac
72.4%

DCIA Site is taken as 100% DCIA
11.99 ac
72.4%

Curve Number

CN= 1000 / (10 + Sd)
CN= 1000 / 10 + 6.8
CN= 60

Soil Storage

Soil Compaction Factor= 25%
Depth to Water Table= 3.5 ft.
Soil Storage for pervious areas = Sd = 6.8 Inches

Depth to Water Table	Natural Available Storage	Developed Available Storage
0	0.00	0
1	0.60	0.45
1.5	1.50	1.10
2	2.50	1.88
2.5	4.50	3.40
3	6.60	4.95
3.5	8.90	6.80
4	10.90	8.18

Sunniland Commons - Stormwater Tract East

Water Quantity Spreadsheet	
Lake Control (FT-NAVD)	19.00
Dry Detention Bottom (FT-NAVD)	20.00
Lake-TOB (FT-NAVD)	22.00
Parking (FT-NAVD)	23.00
Roads and 2nd Break (FT-NAVD)	24.50
Finished Floor (FT-NAVD)	26.00
Lake	
Area (AC)	0.00
Dry Detention Bottom	
Area (AC)	3.08
Dry Detention Bank	
Area (AC)	0.34
Open	
Area (AC)	0.90
Parking and Roadway	
Area (AC)	0.00
FF	
Area (AC)	0.00
Total Acres	4.32

Stage (FT-NAVD)	Area (AC)	Storage (AC-FT)
19.00	0.00	0.00
20.00	3.08	0.00
22.00	3.42	6.50
23.00	3.87	10.15
24.50	4.10	16.12
26.00	4.32	22.43

Impervious Area

FF + Parking and Roadway
0.00 ac
0.0%

DCIA

0.00 ac

Curve Number

CN= 1000 / (10 + Sd)
CN= 1000 / 10 + 6.8
CN= 60

Soil Storage

Soil Compaction Factor= 25%
Depth to Water Table= 3.5 ft.
Soil Storage for pervious areas = Sd = 6.8 Inches

Depth to Water Table	Natural Available Storage	Developed Available Storage
0	0.00	0
1	0.60	0.45
1.5	1.50	1.10
2	2.50	1.88
2.5	4.50	3.40
3	6.60	4.95
3.5	8.90	6.80
4	10.90	8.18

Water Quality Calculations

Basin East

NOTE: WATER QUALITY PROVIDED FOR ON SITE BASIN AND OIL WELL AS REQUESTED BY SFWMD

First Inch of Runoff Criteria:

Commercial Basin Area: 20.87 acres

Water Quality Requirement= 1.00 inches over entire area

20.87 x (1.00 in) x (1 ft/12 in) = **1.74 ac-ft**

% Impervious Criteria:

a) Site Area= Project Area - Lake - Roof

Site Area= 20.87 - 0.00 - 2.14

Site Area= 18.73 acres

b) Imp Area= Site Area - Pervious Area

Imp Area= 18.73 - 8.88

Imp Area= 9.85

c) Vol. Stor. Req'd= 2.5 in * (1 ft/12in) * (Imp. Area/Site Area) *(Project Area-Lake)

Vol. Stor. Req'd= 2.5 in * (1 ft/12in) * 0.53 * 20.87

Vol. Stor. Req'd= **2.29 ac-ft**

Water Quality Volume Used= Greatest of "First Inch of Runoff" or " % Impervious"

Water Quality Volume Used= **2.29 ac-ft** **Percent Impervious Criteria Governs**

Compensating Water Quality for Off Site (Lee Blvd and Sunniland Blvd):

1.36 ac additional impervious area

Off Site Area*2.5 in*1 ft/12 in= **0.28 ac-ft**

Total Required On Site and Off Site: **2.57 ac-ft**

Additional 150% **3.85 ac-ft**

50% Credit for Dry Retention **1.93 ac-ft**

**Note see total water quality table on next sheet. The east basin meets the required and the combined water quality for off site additional impervious is met between the east and west.

Actual Water Quality Treated in Dry Detention

Stage (ft)	Area (ac)	Storage (ac-ft)
20.00	3.08	0.00
20.59	**3.18**	**1.92**
22.00	3.42	6.50

Volume Treated in dry detention area 2= **1.92 ac-ft** per stage/storage at structure

Note if East Basin only without required off site, required east basin amount is 1.73 ac-ft required. See table on next page.

Sunniland Commons Overall Water Quality	
Required West Basin (ac-ft)	1.57
Provided West Basin (ac-ft)	1.59
Required East and Compensating for Off Site 1.36 ac additional	1.93
Provided East Basin (ac-ft)	1.92
Total Requried (ac-ft)	3.50
Total Provided (ac-ft)	3.51

Tc, Allowable Discharge, and Bleed Down Calculations

Sunniland Commons: East Basin

Time of Concentration Calculation
tc=2*(Total Basin Area/640)^.5

Item	Site Basin East & Historic Oil Well	Stormwater Tract East
Area (ac)	16.55	4.32
Tc	19.3	9.9
		*Use min 10 min

Allowable Discharge

Site Discharges to the North to the Lehigh Acres Municipal Services Improvement District (LAMSID) Canal.
Per Section 4.28 of LAMSID Permitting Policies, Design Criteria, the maximum allowable discharge is 30.1 CSM (cubic feet per second per square mile)

30.1 CSM =	0.047	cfs/acre
Basin Area Less Oil Well=	19.27	acres
Allowable Discharge =	0.91	cfs

***NOTE: HELD ALLOWABLE DISCHARGE FOR SITE BASIN EAST AREA WITHOUT ADDITIONAL 1.60 ACRES OF OIL WELL TO BE CONSERVATIVE FOR FUTURE CONDITIONS**

Bleed Down

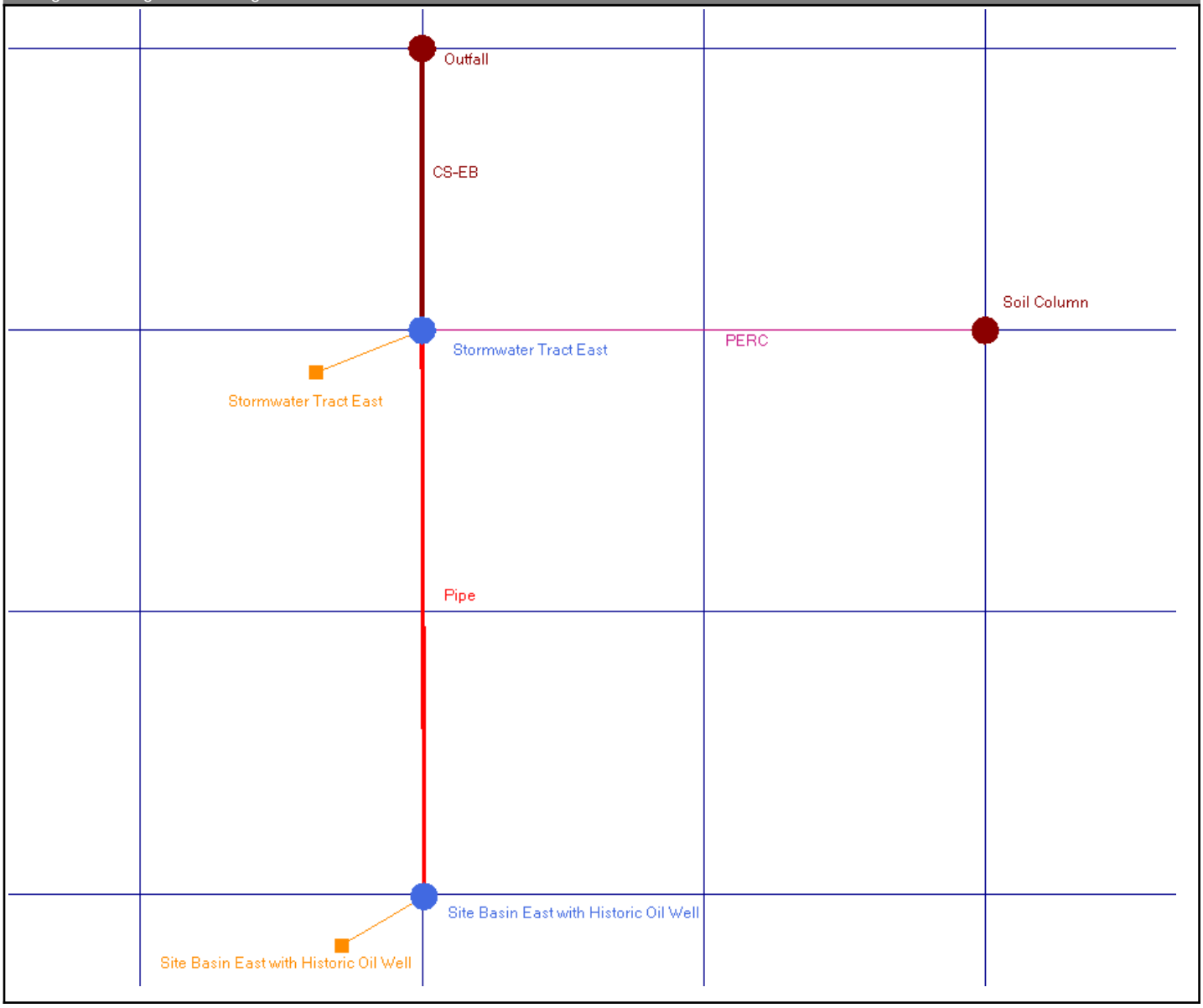
No more than 1/2" in 24 hours
0.5 in*1 ft/12 in*Basin Area (Less Oil Well Parcel)

Basin Area Less Oil Well=	19.27	ac
Bleed Down	0.80	ac-ft

***NOTE: HELD ALLOWABLE DISCHARGE FOR SITE BASIN EAST AREA WITHOUT ADDITIONAL 1.60 ACRES OF OIL WELL TO BE CONSERVATIVE FOR FUTURE CONDITIONS**

StormWise Input Summary – 5 Year and 10 Year Events (TW differs from 25 year)

Background Image: Nodal Diagram



Node: Outfall

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

5 & 10 YEAR TAILWATER, SEE SWM REPORT FOR DETAILS

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	19.50
0	0	0	360.0000	19.00

Comment:

Node: Site Basin East and Historic Oil Well

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
20.00	0.0000	0
22.00	0.0000	0
22.99	0.0010	44
23.00	6.4100	279220
23.50	8.0100	348916
24.50	13.6700	595465
26.00	14.4100	627700

Comment:

Node: Soil Column

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	19.00
0	0	0	360.0000	19.00

Comment:

Node: Stormwater Tract East

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0

Stage [ft]	Area [ac]	Area [ft2]
19.99	0.0010	44
20.00	3.0800	134165
22.00	3.4200	148975
23.00	3.8700	168577
24.50	4.1000	178596
26.00	4.3200	188179

Comment:

Manual Basin: Site Basin East and Historic Oil Well

Scenario: Scenario1
Node: Site Basin East and Historic Oil Well
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 19.3000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 16.5500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
16.5500	Site Basin East and Historic Oil Well	Site Basin East and Historic Oil Well	

Comment:

Manual Basin: Stormwater Tract East

Scenario: Scenario1
Node: Stormwater Tract East
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.3200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
4.3200	Stormwater Tract East	Stormwater Tract East	

Comment:

Drop Structure Link: CS-EB

Scenario: Scenario1
From Node: Stormwater Tract East
To Node: Outfall
Link Count: 1
Pipe Flow Direction: Both

Upstream Pipe	Downstream Pipe
Invert: 15.00 ft	Invert: 15.00 ft
Manning's N: 0.0120	Manning's N: 0.0120
Geometry: Circular	Geometry: Circular
Max Depth: 1.50 ft	Max Depth: 1.50 ft
Bottom Clip	

Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	68.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	20.28 ft
Control Elevation:	19.00 ft
Max Depth:	0.25 ft
Max Width:	0.25 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: Retention required to elevation 20.28 FT-NAVD

Weir Component

Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Circular
Invert:	20.59 ft
Control Elevation:	19.00 ft
Max Depth:	0.25 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Percolation Link: PERC

Scenario:	Scenario1	Surface Area Option:	Use 1st Point in Stage/Area Table
From Node:	Stormwater Tract East	Vertical Flow Termination:	Horizontal Flow Algorithm
To Node:	Soil Column	Perimeter 1:	2572.00 ft
Link Count:	1	Perimeter 2:	2886.00 ft
Flow Direction:	Both	Perimeter 3:	5398.00 ft
Aquifer Base Elevation:	16.83 ft	Distance P1 to P2:	50.00 ft

Water Table Elevation:	19.00 ft		
Annual Recharge Rate:	0 ipy	Distance P2 to P3:	450.00 ft
Horizontal Conductivity:	21.840 fpd	# of Cells P1 to P2:	5
Vertical Conductivity:	14.560 fpd	# of Cells P2 to P3:	10
Fillable Porosity:	0.200		
Layer Thickness:	1.00 ft		

Comment:

Pipe Link: Pipe

		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.10 ft	Invert:	15.10 ft
From Node:	Site Basin East and Historic Oil Well	Manning's N:	0.0120	Manning's N:	0.0120
		Geometry: Circular		Geometry: Circular	
To Node:	Stormwater Tract East	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0000 ft	Op Table:		Op Table:	
Length:	1007.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Curve Number: 1 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
Site Basin East and Historic Oil Well	Site Basin East and Historic Oil Well	60.0
Stormwater Tract East	Stormwater Tract East	60.0

Impervious: 1 [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia/S [dec]	Ia Impervious [in]	Ia Pervious [in]
Site Basin East and Historic Oil Well	100.00	100.00	0.00	0.00	0.000	0.000
Stormwater Tract East	0.00	0.00	0.00	0.00	0.000	0.000

Simulation: SFWMD 100YR-3 DAY

Scenario:	Scenario1
Run Date/Time:	9/23/2025 11:17:17 AM
Program Version:	StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 14.10 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 10YR-1 DAY

Scenario: Scenario1

Run Date/Time: 9/23/2025 11:23:03 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD
Rainfall Amount: 6.89 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 25YR-3 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 11:07:53 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000
0	0	0	72.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 10.70 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 5 YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 11:24:06 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD

Rainfall Amount:	5.79 in
Storm Duration:	24.0000 hr
Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (1D):	100 ft2
Energy Switch (1D):	Energy

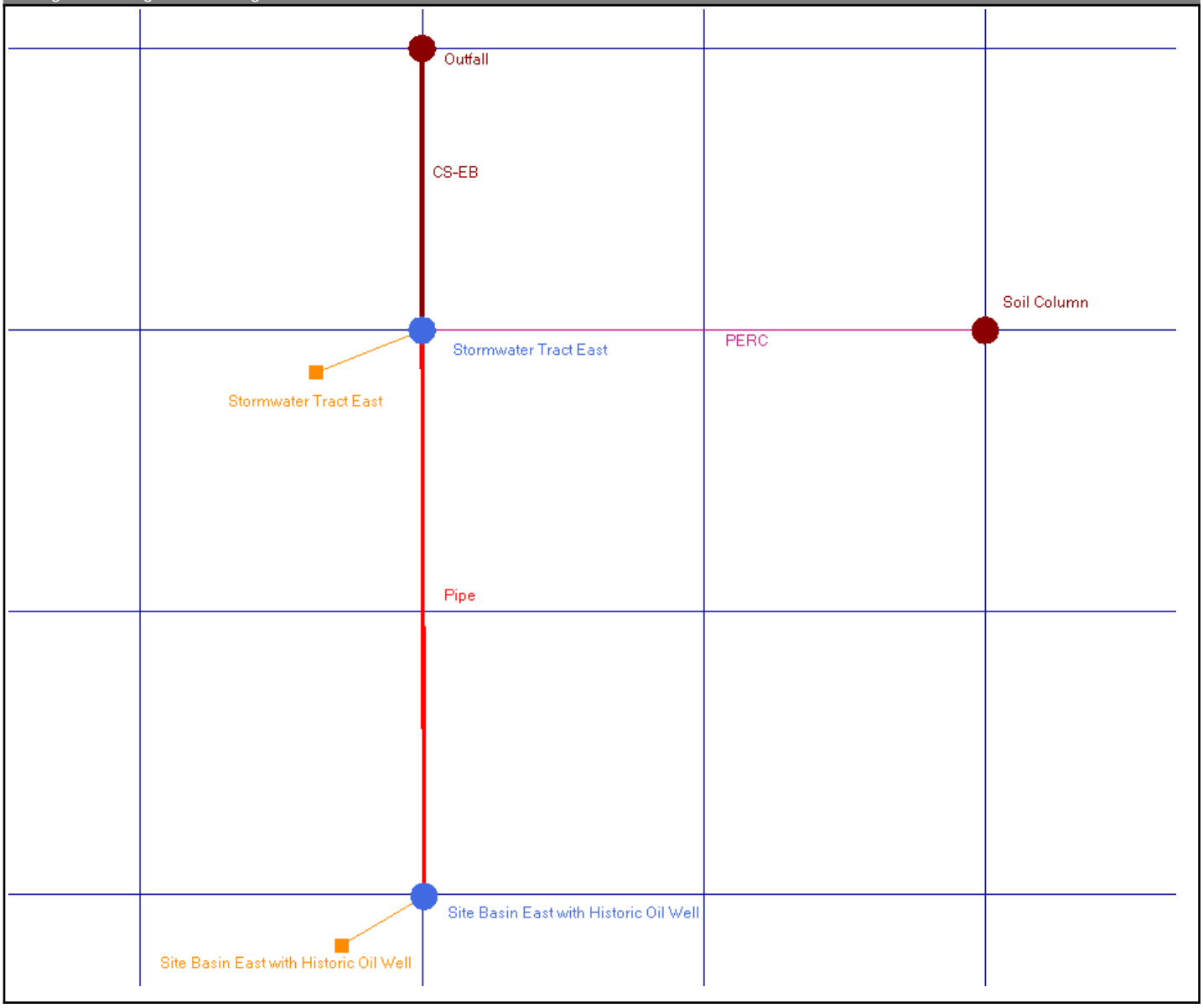
Comment:

5 Year, 1 Day and 10 Year, 1 Day Node Max

Sim	Node Name	Relative Time [hrs]	Maximum Stage [ft]	Time to Maximum Stage [hrs]
SFWMD 10YR-1 DAY	Site Basin East and Historic Oil Well	356.0014	23.14	12.7640
SFWMD 10YR-1 DAY	Stormwater Tract East	356.0014	22.63	24.1707
SFWMD 5 YR-1 DAY	Site Basin East and Historic Oil Well	356.0006	23.06	12.5854
SFWMD 5 YR-1 DAY	Stormwater Tract East	356.0006	22.19	24.1495

StormWise Input Summary –25 year Storm Event

Background Image: Nodal Diagram



Node: Outfall

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

25 YEAR, 3 DAY TW, SEE DETAILS IN SWM REPORT

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	20.11
0	0	0	360.0000	19.00

Comment:

Node: Site Basin East and Historic Oil Well

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
20.00	0.0000	0
22.00	0.0000	0
22.99	0.0010	44
23.00	6.4100	279220
23.50	8.0100	348916
24.50	13.6700	595465
26.00	14.4100	627700

Comment:

Node: Soil Column

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	19.00
0	0	0	360.0000	19.00

Comment:

Node: Stormwater Tract East

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0

Stage [ft]	Area [ac]	Area [ft2]
19.99	0.0010	44
20.00	3.0800	134165
22.00	3.4200	148975
23.00	3.8700	168577
24.50	4.1000	178596
26.00	4.3200	188179

Comment:

Manual Basin: Site Basin East and Historic Oil Well

Scenario: Scenario1
Node: Site Basin East and Historic Oil Well
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 19.3000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 16.5500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
16.5500	Site Basin East and Historic Oil Well	Site Basin East and Historic Oil Well	

Comment:

Manual Basin: Stormwater Tract East

Scenario: Scenario1
Node: Stormwater Tract East
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.3200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
4.3200	Stormwater Tract East	Stormwater Tract East	

Comment:

Drop Structure Link: CS-EB

Scenario: Scenario1
From Node: Stormwater Tract East
To Node: Outfall
Link Count: 1
Pipe Flow Direction: Both

Upstream Pipe	Downstream Pipe
Invert: 15.00 ft	Invert: 15.00 ft
Manning's N: 0.0120	Manning's N: 0.0120
Geometry: Circular	Geometry: Circular
Max Depth: 1.50 ft	Max Depth: 1.50 ft
Bottom Clip	

Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	68.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	20.28 ft
Control Elevation:	19.00 ft
Max Depth:	0.25 ft
Max Width:	0.25 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: Retention required to elevation 20.28 FT-NAVD

Weir Component

Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Circular
Invert:	20.59 ft
Control Elevation:	19.00 ft
Max Depth:	0.25 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Percolation Link: PERC

Scenario:	Scenario1	Surface Area Option:	Use 1st Point in Stage/Area Table
From Node:	Stormwater Tract East	Vertical Flow Termination:	Horizontal Flow Algorithm
To Node:	Soil Column	Perimeter 1:	2572.00 ft
Link Count:	1	Perimeter 2:	2886.00 ft
Flow Direction:	Both	Perimeter 3:	5398.00 ft
Aquifer Base Elevation:	16.83 ft	Distance P1 to P2:	50.00 ft

Water Table Elevation:	19.00 ft		
Annual Recharge Rate:	0 ipy	Distance P2 to P3:	450.00 ft
Horizontal Conductivity:	21.840 fpd	# of Cells P1 to P2:	5
Vertical Conductivity:	14.560 fpd	# of Cells P2 to P3:	10
Fillable Porosity:	0.200		
Layer Thickness:	1.00 ft		

Comment:

Pipe Link: Pipe

		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.10 ft	Invert:	15.10 ft
From Node:	Site Basin East and Historic Oil Well	Manning's N:	0.0120	Manning's N:	0.0120
		Geometry: Circular		Geometry: Circular	
To Node:	Stormwater Tract East	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0000 ft	Op Table:		Op Table:	
Length:	1007.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Curve Number: 1 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
Site Basin East and Historic Oil Well	Site Basin East and Historic Oil Well	60.0
Stormwater Tract East	Stormwater Tract East	60.0

Impervious: 1 [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia/S [dec]	Ia Impervious [in]	Ia Pervious [in]
Site Basin East and Historic Oil Well	100.00	100.00	0.00	0.00	0.000	0.000
Stormwater Tract East	0.00	0.00	0.00	0.00	0.000	0.000

Simulation: SFWMD 100YR-3 DAY

Scenario:	Scenario1
Run Date/Time:	9/15/2025 9:29:15 AM
Program Version:	StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 14.10 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 10YR-1 DAY

Scenario: Scenario1

Run Date/Time: 9/15/2025 9:11:15 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD
Rainfall Amount: 6.89 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 25YR-3 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 10:56:07 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000
0	0	0	72.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 10.70 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 5 YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/15/2025 9:11:41 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD

Rainfall Amount:	5.79 in
Storm Duration:	24.0000 hr
Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (1D):	100 ft2
Energy Switch (1D):	Energy

Comment:

25 Year, 3 Day Node Max

Sim	Node Name	Relative Time [hrs]	Maximum Stage [ft]	Time to Maximum Stage [hrs]
SFWMD 25YR-3 DAY	Site Basin East and Historic Oil Well	359.2524	23.33	61.2213
SFWMD 25YR-3 DAY	Stormwater Tract East	359.2524	23.31	72.3093

25 Year, 3 Day Link Max

Sim	Link Name	From Node Name	To Node Name	Relative Time [hrs]	Maximum Flow Rate [cfs]	Time to Maximum Flow Rate [hrs
SFWMD 25YR-3 DAY	CS-EB	~~D~CS-EB~N	Outfall	359.2524	0.89	72.3176

25 Year, 3 Day Node Time Series

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	0.0000	19.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	0.7504	19.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	1.5002	20.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	2.2500	20.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	3.0004	20.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	3.7503	20.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	4.5002	20.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	5.2501	20.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	6.0004	20.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	6.7505	20.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	7.5006	20.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	8.2501	20.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	9.0000	20.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	9.7502	20.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	10.5005	20.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	11.2500	20.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	12.0000	20.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	12.7509	20.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	13.5005	20.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	14.2506	20.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	15.0005	20.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	15.7502	20.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	16.5003	20.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	17.2501	20.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	18.0003	20.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	18.7500	20.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	19.5004	20.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	20.2503	20.33
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	21.0004	20.34
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	21.7502	20.35
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	22.5001	20.37
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	23.2505	20.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	24.0004	20.39
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	24.7501	20.41
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	25.5003	20.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	26.2503	20.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	27.0001	20.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	27.7502	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	28.5000	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	29.2503	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	30.0004	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	30.7501	20.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	31.5001	20.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	32.2503	20.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	33.0001	20.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	33.7501	20.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	34.5003	20.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	35.2502	20.67

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	36.0000	20.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	36.7502	20.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	37.5000	20.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	38.2503	20.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	39.0003	20.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	39.7502	20.77
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	40.5003	20.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	41.2500	20.80
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	42.0002	20.82
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	42.7504	20.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	43.5001	20.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	44.2501	20.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	45.0001	20.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	45.7502	20.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	46.5003	20.91
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	47.2503	20.93
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	48.0002	20.94
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	48.7503	20.96
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	49.5003	20.98
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	50.2503	20.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	51.0001	21.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	51.7512	21.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	52.5001	21.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	53.2505	21.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	54.0002	21.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	54.7501	21.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	55.5009	21.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	56.2510	21.32
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	57.0010	21.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	57.7507	21.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	58.5021	21.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	59.2508	21.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	60.0000	22.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	60.7514	22.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	61.5014	22.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	62.2520	23.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	63.0015	23.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	63.7510	23.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	64.5010	23.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	65.2510	23.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	66.0010	23.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	66.7510	23.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	67.5010	23.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	68.2510	23.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	69.0010	23.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	69.7510	23.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	70.5010	23.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	71.2510	23.31

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	72.0010	23.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	72.7510	23.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	73.5010	23.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	74.2510	23.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	75.0010	23.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	75.7510	23.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	76.5010	23.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	77.2510	23.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	78.0010	23.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	78.7510	23.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	79.5010	23.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	80.2510	23.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	81.0010	23.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	81.7510	23.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	82.5010	23.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	83.2510	23.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	84.0010	23.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	84.7510	23.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	85.5010	23.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	86.2510	23.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	87.0010	23.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	87.7510	23.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	88.5010	23.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	89.2510	23.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	90.0010	23.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	90.7510	23.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	91.5010	23.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	92.2510	23.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	93.0010	23.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	93.7510	23.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	94.5010	23.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	95.2510	23.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	96.0010	23.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	96.7510	23.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	97.5010	23.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	98.2510	23.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	99.0010	23.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	99.7510	23.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	100.5010	23.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	101.2510	23.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	102.0010	23.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	102.7510	23.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	103.5010	23.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	104.2510	23.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	105.0010	23.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	105.7510	23.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	106.5010	23.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	107.2510	23.02

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	108.0010	23.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	108.7510	23.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	109.5010	23.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	110.2510	22.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	111.0030	22.98
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	111.7524	22.96
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	112.5024	22.94
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	113.2524	22.93
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	114.0024	22.91
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	114.7524	22.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	115.5024	22.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	116.2524	22.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	117.0024	22.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	117.7524	22.84
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	118.5024	22.82
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	119.2524	22.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	120.0024	22.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	120.7524	22.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	121.5024	22.76
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	122.2524	22.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	123.0024	22.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	123.7524	22.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	124.5024	22.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	125.2524	22.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	126.0024	22.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	126.7524	22.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	127.5024	22.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	128.2524	22.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	129.0024	22.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	129.7524	22.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	130.5024	22.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	131.2524	22.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	132.0024	22.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	132.7524	22.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	133.5024	22.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	134.2524	22.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	135.0024	22.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	135.7524	22.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	136.5024	22.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	137.2524	22.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	138.0024	22.44
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	138.7524	22.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	139.5024	22.42
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	140.2524	22.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	141.0024	22.39
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	141.7524	22.37
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	142.5024	22.36
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	143.2524	22.35

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	144.0024	22.33
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	144.7524	22.32
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	145.5024	22.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	146.2524	22.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	147.0024	22.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	147.7524	22.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	148.5024	22.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	149.2524	22.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	150.0024	22.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	150.7524	22.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	151.5024	22.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	152.2524	22.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	153.0024	22.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	153.7524	22.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	154.5024	22.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	155.2524	22.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	156.0024	22.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	156.7524	22.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	157.5024	22.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	158.2524	22.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	159.0024	22.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	159.7524	22.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	160.5024	22.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	161.2524	22.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	162.0024	22.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	162.7524	22.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	163.5024	22.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	164.2524	21.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	165.0024	21.98
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	165.7524	21.96
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	166.5024	21.95
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	167.2524	21.94
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	168.0024	21.93
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	168.7524	21.91
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	169.5024	21.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	170.2524	21.89
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	171.0024	21.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	171.7524	21.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	172.5024	21.86
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	173.2524	21.84
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	174.0024	21.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	174.7524	21.82
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	175.5024	21.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	176.2524	21.80
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	177.0024	21.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	177.7524	21.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	178.5024	21.77
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	179.2524	21.75

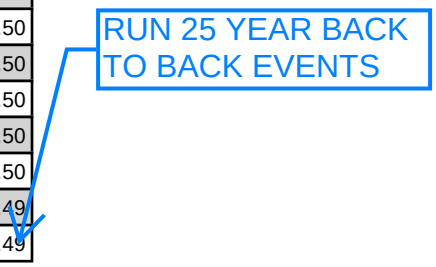
Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	180.0024	21.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	180.7524	21.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	181.5024	21.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	182.2524	21.71
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	183.0024	21.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	183.7524	21.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	184.5024	21.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	185.2524	21.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	186.0024	21.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	186.7524	21.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	187.5024	21.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	188.2524	21.62
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	189.0024	21.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	189.7524	21.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	190.5024	21.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	191.2524	21.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	192.0024	21.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	192.7524	21.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	193.5024	21.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	194.2524	21.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	195.0024	21.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	195.7524	21.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	196.5024	21.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	197.2524	21.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	198.0024	21.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	198.7524	21.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	199.5024	21.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	200.2524	21.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	201.0024	21.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	201.7524	21.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	202.5024	21.44
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	203.2524	21.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	204.0024	21.42
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	204.7524	21.41
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	205.5024	21.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	206.2524	21.39
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	207.0024	21.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	207.7524	21.37
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	208.5024	21.36
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	209.2524	21.35
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	210.0024	21.34
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	210.7524	21.34
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	211.5024	21.33
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	212.2524	21.32
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	213.0024	21.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	213.7524	21.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	214.5024	21.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	215.2524	21.28

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	216.0024	21.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	216.7524	21.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	217.5024	21.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	218.2524	21.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	219.0024	21.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	219.7524	21.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	220.5024	21.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	221.2524	21.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	222.0024	21.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	222.7524	21.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	223.5024	21.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	224.2524	21.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	225.0024	21.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	225.7524	21.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	226.5024	21.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	227.2524	21.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	228.0024	21.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	228.7524	21.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	229.5024	21.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	230.2524	21.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	231.0024	21.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	231.7524	21.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	232.5024	21.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	233.2524	21.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	234.0024	21.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	234.7524	21.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	235.5024	21.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	236.2524	21.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	237.0024	21.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	237.7524	21.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	238.5024	21.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	239.2524	21.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	240.0024	21.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	240.7524	21.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	241.5024	21.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	242.2524	21.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	243.0024	21.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	243.7524	21.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	244.5024	20.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	245.2524	20.98
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	246.0024	20.98
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	246.7524	20.97
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	247.5024	20.96
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	248.2524	20.96
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	249.0024	20.95
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	249.7524	20.95
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	250.5024	20.94
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	251.2524	20.93

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	252.0024	20.93
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	252.7524	20.92
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	253.5024	20.92
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	254.2524	20.91
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	255.0024	20.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	255.7524	20.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	256.5024	20.89
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	257.2524	20.89
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	258.0024	20.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	258.7524	20.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	259.5024	20.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	260.2524	20.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	261.0024	20.86
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	261.7524	20.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	262.5024	20.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	263.2524	20.84
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	264.0024	20.84
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	264.7524	20.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	265.5024	20.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	266.2524	20.82
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	267.0024	20.82
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	267.7524	20.82
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	268.5024	20.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	269.2524	20.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	270.0024	20.80
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	270.7524	20.80
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	271.5024	20.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	272.2524	20.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	273.0024	20.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	273.7524	20.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	274.5024	20.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	275.2524	20.77
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	276.0024	20.77
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	276.7524	20.76
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	277.5024	20.76
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	278.2524	20.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	279.0024	20.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	279.7524	20.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	280.5024	20.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	281.2524	20.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	282.0024	20.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	282.7524	20.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	283.5024	20.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	284.2524	20.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	285.0024	20.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	285.7524	20.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	286.5024	20.71
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	287.2524	20.71

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	288.0024	20.71
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	288.7524	20.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	289.5024	20.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	290.2524	20.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	291.0024	20.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	291.7524	20.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	292.5024	20.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	293.2524	20.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	294.0024	20.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	294.7524	20.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	295.5024	20.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	296.2524	20.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	297.0024	20.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	297.7524	20.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	298.5024	20.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	299.2524	20.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	300.0024	20.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	300.7524	20.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	301.5024	20.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	302.2524	20.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	303.0024	20.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	303.7524	20.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	304.5024	20.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	305.2524	20.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	306.0024	20.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	306.7524	20.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	307.5024	20.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	308.2524	20.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	309.0024	20.62
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	309.7524	20.62
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	310.5024	20.62
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	311.2524	20.62
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	312.0024	20.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	312.7524	20.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	313.5024	20.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	314.2524	20.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	315.0024	20.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	315.7524	20.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	316.5024	20.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	317.2524	20.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	318.0024	20.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	318.7524	20.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	319.5024	20.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	320.2524	20.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	321.0024	20.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	321.7524	20.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	322.5024	20.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	323.2524	20.58

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	324.0024	20.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	324.7524	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	325.5024	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	326.2524	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	327.0024	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	327.7524	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	328.5024	20.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	329.2524	20.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	330.0024	20.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	330.7524	20.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	331.5024	20.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	332.2524	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	333.0024	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	333.7524	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	334.5024	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	335.2524	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	336.0024	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	336.7524	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	337.5024	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	338.2524	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	339.0024	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	339.7524	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	340.5024	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	341.2524	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	342.0024	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	342.7524	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	343.5024	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	344.2524	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	345.0024	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	345.7524	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	346.5024	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	347.2524	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	348.0024	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	348.7524	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	349.5024	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	350.2524	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	351.0024	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	351.7524	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	352.5024	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	353.2524	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	354.0024	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	354.7524	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	355.5024	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	356.2524	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	357.0024	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	357.7524	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	358.5024	20.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	359.2524	20.49



Node Volume

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	0.0000	19.00	0.00
SFWMD 25YR-3 DAY	Stormwater Tract East	0.7504	19.99	0.01
SFWMD 25YR-3 DAY	Stormwater Tract East	1.5002	20.00	0.03
SFWMD 25YR-3 DAY	Stormwater Tract East	2.2500	20.01	0.05
SFWMD 25YR-3 DAY	Stormwater Tract East	3.0004	20.03	0.07
SFWMD 25YR-3 DAY	Stormwater Tract East	3.7503	20.04	0.08
SFWMD 25YR-3 DAY	Stormwater Tract East	4.5002	20.05	0.09
SFWMD 25YR-3 DAY	Stormwater Tract East	5.2501	20.06	0.10
SFWMD 25YR-3 DAY	Stormwater Tract East	6.0004	20.07	0.11
SFWMD 25YR-3 DAY	Stormwater Tract East	6.7505	20.09	0.12
SFWMD 25YR-3 DAY	Stormwater Tract East	7.5006	20.10	0.13
SFWMD 25YR-3 DAY	Stormwater Tract East	8.2501	20.11	0.14
SFWMD 25YR-3 DAY	Stormwater Tract East	9.0000	20.13	0.15
SFWMD 25YR-3 DAY	Stormwater Tract East	9.7502	20.14	0.16
SFWMD 25YR-3 DAY	Stormwater Tract East	10.5005	20.15	0.17
SFWMD 25YR-3 DAY	Stormwater Tract East	11.2500	20.17	0.17
SFWMD 25YR-3 DAY	Stormwater Tract East	12.0000	20.18	0.18
SFWMD 25YR-3 DAY	Stormwater Tract East	12.7509	20.19	0.19
SFWMD 25YR-3 DAY	Stormwater Tract East	13.5005	20.21	0.20
SFWMD 25YR-3 DAY	Stormwater Tract East	14.2506	20.22	0.21
SFWMD 25YR-3 DAY	Stormwater Tract East	15.0005	20.23	0.21
SFWMD 25YR-3 DAY	Stormwater Tract East	15.7502	20.25	0.22
SFWMD 25YR-3 DAY	Stormwater Tract East	16.5003	20.26	0.23
SFWMD 25YR-3 DAY	Stormwater Tract East	17.2501	20.27	0.24
SFWMD 25YR-3 DAY	Stormwater Tract East	18.0003	20.29	0.24
SFWMD 25YR-3 DAY	Stormwater Tract East	18.7500	20.30	0.25
SFWMD 25YR-3 DAY	Stormwater Tract East	19.5004	20.31	0.26
SFWMD 25YR-3 DAY	Stormwater Tract East	20.2503	20.33	0.27
SFWMD 25YR-3 DAY	Stormwater Tract East	21.0004	20.34	0.27
SFWMD 25YR-3 DAY	Stormwater Tract East	21.7502	20.35	0.28
SFWMD 25YR-3 DAY	Stormwater Tract East	22.5001	20.37	0.29
SFWMD 25YR-3 DAY	Stormwater Tract East	23.2505	20.38	0.30
SFWMD 25YR-3 DAY	Stormwater Tract East	24.0004	20.39	0.31
SFWMD 25YR-3 DAY	Stormwater Tract East	24.7501	20.41	0.32
SFWMD 25YR-3 DAY	Stormwater Tract East	25.5003	20.43	0.33
SFWMD 25YR-3 DAY	Stormwater Tract East	26.2503	20.45	0.34
SFWMD 25YR-3 DAY	Stormwater Tract East	27.0001	20.46	0.35
SFWMD 25YR-3 DAY	Stormwater Tract East	27.7502	20.48	0.36
SFWMD 25YR-3 DAY	Stormwater Tract East	28.5000	20.50	0.38
SFWMD 25YR-3 DAY	Stormwater Tract East	29.2503	20.52	0.39
SFWMD 25YR-3 DAY	Stormwater Tract East	30.0004	20.54	0.40
SFWMD 25YR-3 DAY	Stormwater Tract East	30.7501	20.56	0.42
SFWMD 25YR-3 DAY	Stormwater Tract East	31.5001	20.58	0.44
SFWMD 25YR-3 DAY	Stormwater Tract East	32.2503	20.59	0.45
SFWMD 25YR-3 DAY	Stormwater Tract East	33.0001	20.61	0.47
SFWMD 25YR-3 DAY	Stormwater Tract East	33.7501	20.63	0.49
SFWMD 25YR-3 DAY	Stormwater Tract East	34.5003	20.65	0.50
SFWMD 25YR-3 DAY	Stormwater Tract East	35.2502	20.67	0.52

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	36.0000	20.68	0.54
SFWMD 25YR-3 DAY	Stormwater Tract East	36.7502	20.70	0.56
SFWMD 25YR-3 DAY	Stormwater Tract East	37.5000	20.72	0.58
SFWMD 25YR-3 DAY	Stormwater Tract East	38.2503	20.73	0.60
SFWMD 25YR-3 DAY	Stormwater Tract East	39.0003	20.75	0.62
SFWMD 25YR-3 DAY	Stormwater Tract East	39.7502	20.77	0.65
SFWMD 25YR-3 DAY	Stormwater Tract East	40.5003	20.79	0.67
SFWMD 25YR-3 DAY	Stormwater Tract East	41.2500	20.80	0.69
SFWMD 25YR-3 DAY	Stormwater Tract East	42.0002	20.82	0.72
SFWMD 25YR-3 DAY	Stormwater Tract East	42.7504	20.83	0.74
SFWMD 25YR-3 DAY	Stormwater Tract East	43.5001	20.85	0.77
SFWMD 25YR-3 DAY	Stormwater Tract East	44.2501	20.87	0.80
SFWMD 25YR-3 DAY	Stormwater Tract East	45.0001	20.88	0.82
SFWMD 25YR-3 DAY	Stormwater Tract East	45.7502	20.90	0.85
SFWMD 25YR-3 DAY	Stormwater Tract East	46.5003	20.91	0.88
SFWMD 25YR-3 DAY	Stormwater Tract East	47.2503	20.93	0.91
SFWMD 25YR-3 DAY	Stormwater Tract East	48.0002	20.94	0.94
SFWMD 25YR-3 DAY	Stormwater Tract East	48.7503	20.96	0.97
SFWMD 25YR-3 DAY	Stormwater Tract East	49.5003	20.98	1.00
SFWMD 25YR-3 DAY	Stormwater Tract East	50.2503	20.99	1.03
SFWMD 25YR-3 DAY	Stormwater Tract East	51.0001	21.02	1.06
SFWMD 25YR-3 DAY	Stormwater Tract East	51.7512	21.04	1.10
SFWMD 25YR-3 DAY	Stormwater Tract East	52.5001	21.07	1.13
SFWMD 25YR-3 DAY	Stormwater Tract East	53.2505	21.10	1.17
SFWMD 25YR-3 DAY	Stormwater Tract East	54.0002	21.14	1.20
SFWMD 25YR-3 DAY	Stormwater Tract East	54.7501	21.20	1.24
SFWMD 25YR-3 DAY	Stormwater Tract East	55.5009	21.25	1.28
SFWMD 25YR-3 DAY	Stormwater Tract East	56.2510	21.32	1.32
SFWMD 25YR-3 DAY	Stormwater Tract East	57.0010	21.40	1.37
SFWMD 25YR-3 DAY	Stormwater Tract East	57.7507	21.48	1.41
SFWMD 25YR-3 DAY	Stormwater Tract East	58.5021	21.59	1.47
SFWMD 25YR-3 DAY	Stormwater Tract East	59.2508	21.73	1.52
SFWMD 25YR-3 DAY	Stormwater Tract East	60.0000	22.12	1.59
SFWMD 25YR-3 DAY	Stormwater Tract East	60.7514	22.56	1.67
SFWMD 25YR-3 DAY	Stormwater Tract East	61.5014	22.85	1.77
SFWMD 25YR-3 DAY	Stormwater Tract East	62.2520	23.04	1.88
SFWMD 25YR-3 DAY	Stormwater Tract East	63.0015	23.16	1.98
SFWMD 25YR-3 DAY	Stormwater Tract East	63.7510	23.22	2.08
SFWMD 25YR-3 DAY	Stormwater Tract East	64.5010	23.25	2.18
SFWMD 25YR-3 DAY	Stormwater Tract East	65.2510	23.26	2.27
SFWMD 25YR-3 DAY	Stormwater Tract East	66.0010	23.27	2.36
SFWMD 25YR-3 DAY	Stormwater Tract East	66.7510	23.28	2.45
SFWMD 25YR-3 DAY	Stormwater Tract East	67.5010	23.29	2.54
SFWMD 25YR-3 DAY	Stormwater Tract East	68.2510	23.29	2.62
SFWMD 25YR-3 DAY	Stormwater Tract East	69.0010	23.30	2.71
SFWMD 25YR-3 DAY	Stormwater Tract East	69.7510	23.30	2.79
SFWMD 25YR-3 DAY	Stormwater Tract East	70.5010	23.31	2.88
SFWMD 25YR-3 DAY	Stormwater Tract East	71.2510	23.31	2.96

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	72.0010	23.31	3.04
SFWMD 25YR-3 DAY	Stormwater Tract East	72.7510	23.31	3.12
SFWMD 25YR-3 DAY	Stormwater Tract East	73.5010	23.30	3.20
SFWMD 25YR-3 DAY	Stormwater Tract East	74.2510	23.30	3.28
SFWMD 25YR-3 DAY	Stormwater Tract East	75.0010	23.29	3.36
SFWMD 25YR-3 DAY	Stormwater Tract East	75.7510	23.28	3.43
SFWMD 25YR-3 DAY	Stormwater Tract East	76.5010	23.28	3.51
SFWMD 25YR-3 DAY	Stormwater Tract East	77.2510	23.27	3.59
SFWMD 25YR-3 DAY	Stormwater Tract East	78.0010	23.26	3.66
SFWMD 25YR-3 DAY	Stormwater Tract East	78.7510	23.26	3.74
SFWMD 25YR-3 DAY	Stormwater Tract East	79.5010	23.25	3.81
SFWMD 25YR-3 DAY	Stormwater Tract East	80.2510	23.24	3.88
SFWMD 25YR-3 DAY	Stormwater Tract East	81.0010	23.24	3.96
SFWMD 25YR-3 DAY	Stormwater Tract East	81.7510	23.23	4.03
SFWMD 25YR-3 DAY	Stormwater Tract East	82.5010	23.22	4.10
SFWMD 25YR-3 DAY	Stormwater Tract East	83.2510	23.22	4.17
SFWMD 25YR-3 DAY	Stormwater Tract East	84.0010	23.21	4.25
SFWMD 25YR-3 DAY	Stormwater Tract East	84.7510	23.20	4.32
SFWMD 25YR-3 DAY	Stormwater Tract East	85.5010	23.20	4.39
SFWMD 25YR-3 DAY	Stormwater Tract East	86.2510	23.19	4.46
SFWMD 25YR-3 DAY	Stormwater Tract East	87.0010	23.19	4.53
SFWMD 25YR-3 DAY	Stormwater Tract East	87.7510	23.18	4.60
SFWMD 25YR-3 DAY	Stormwater Tract East	88.5010	23.17	4.67
SFWMD 25YR-3 DAY	Stormwater Tract East	89.2510	23.17	4.74
SFWMD 25YR-3 DAY	Stormwater Tract East	90.0010	23.16	4.81
SFWMD 25YR-3 DAY	Stormwater Tract East	90.7510	23.15	4.87
SFWMD 25YR-3 DAY	Stormwater Tract East	91.5010	23.15	4.94
SFWMD 25YR-3 DAY	Stormwater Tract East	92.2510	23.14	5.01
SFWMD 25YR-3 DAY	Stormwater Tract East	93.0010	23.13	5.08
SFWMD 25YR-3 DAY	Stormwater Tract East	93.7510	23.13	5.15
SFWMD 25YR-3 DAY	Stormwater Tract East	94.5010	23.12	5.21
SFWMD 25YR-3 DAY	Stormwater Tract East	95.2510	23.12	5.28
SFWMD 25YR-3 DAY	Stormwater Tract East	96.0010	23.11	5.35
SFWMD 25YR-3 DAY	Stormwater Tract East	96.7510	23.10	5.41
SFWMD 25YR-3 DAY	Stormwater Tract East	97.5010	23.10	5.48
SFWMD 25YR-3 DAY	Stormwater Tract East	98.2510	23.09	5.55
SFWMD 25YR-3 DAY	Stormwater Tract East	99.0010	23.08	5.61
SFWMD 25YR-3 DAY	Stormwater Tract East	99.7510	23.08	5.68
SFWMD 25YR-3 DAY	Stormwater Tract East	100.5010	23.07	5.74
SFWMD 25YR-3 DAY	Stormwater Tract East	101.2510	23.07	5.81
SFWMD 25YR-3 DAY	Stormwater Tract East	102.0010	23.06	5.87
SFWMD 25YR-3 DAY	Stormwater Tract East	102.7510	23.05	5.94
SFWMD 25YR-3 DAY	Stormwater Tract East	103.5010	23.05	6.00
SFWMD 25YR-3 DAY	Stormwater Tract East	104.2510	23.04	6.07
SFWMD 25YR-3 DAY	Stormwater Tract East	105.0010	23.04	6.13
SFWMD 25YR-3 DAY	Stormwater Tract East	105.7510	23.03	6.19
SFWMD 25YR-3 DAY	Stormwater Tract East	106.5010	23.02	6.26
SFWMD 25YR-3 DAY	Stormwater Tract East	107.2510	23.02	6.32

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	108.0010	23.01	6.38
SFWMD 25YR-3 DAY	Stormwater Tract East	108.7510	23.00	6.45
SFWMD 25YR-3 DAY	Stormwater Tract East	109.5010	23.00	6.51
SFWMD 25YR-3 DAY	Stormwater Tract East	110.2510	22.99	6.57
SFWMD 25YR-3 DAY	Stormwater Tract East	111.0030	22.98	6.63
SFWMD 25YR-3 DAY	Stormwater Tract East	111.7524	22.96	6.70
SFWMD 25YR-3 DAY	Stormwater Tract East	112.5024	22.94	6.76
SFWMD 25YR-3 DAY	Stormwater Tract East	113.2524	22.93	6.82
SFWMD 25YR-3 DAY	Stormwater Tract East	114.0024	22.91	6.88
SFWMD 25YR-3 DAY	Stormwater Tract East	114.7524	22.90	6.94
SFWMD 25YR-3 DAY	Stormwater Tract East	115.5024	22.88	7.00
SFWMD 25YR-3 DAY	Stormwater Tract East	116.2524	22.87	7.06
SFWMD 25YR-3 DAY	Stormwater Tract East	117.0024	22.85	7.12
SFWMD 25YR-3 DAY	Stormwater Tract East	117.7524	22.84	7.17
SFWMD 25YR-3 DAY	Stormwater Tract East	118.5024	22.82	7.23
SFWMD 25YR-3 DAY	Stormwater Tract East	119.2524	22.81	7.29
SFWMD 25YR-3 DAY	Stormwater Tract East	120.0024	22.79	7.35
SFWMD 25YR-3 DAY	Stormwater Tract East	120.7524	22.78	7.40
SFWMD 25YR-3 DAY	Stormwater Tract East	121.5024	22.76	7.46
SFWMD 25YR-3 DAY	Stormwater Tract East	122.2524	22.75	7.52
SFWMD 25YR-3 DAY	Stormwater Tract East	123.0024	22.73	7.57
SFWMD 25YR-3 DAY	Stormwater Tract East	123.7524	22.72	7.63
SFWMD 25YR-3 DAY	Stormwater Tract East	124.5024	22.70	7.68
SFWMD 25YR-3 DAY	Stormwater Tract East	125.2524	22.69	7.74
SFWMD 25YR-3 DAY	Stormwater Tract East	126.0024	22.67	7.79
SFWMD 25YR-3 DAY	Stormwater Tract East	126.7524	22.66	7.85
SFWMD 25YR-3 DAY	Stormwater Tract East	127.5024	22.64	7.90
SFWMD 25YR-3 DAY	Stormwater Tract East	128.2524	22.63	7.95
SFWMD 25YR-3 DAY	Stormwater Tract East	129.0024	22.61	8.01
SFWMD 25YR-3 DAY	Stormwater Tract East	129.7524	22.60	8.06
SFWMD 25YR-3 DAY	Stormwater Tract East	130.5024	22.58	8.11
SFWMD 25YR-3 DAY	Stormwater Tract East	131.2524	22.57	8.17
SFWMD 25YR-3 DAY	Stormwater Tract East	132.0024	22.56	8.22
SFWMD 25YR-3 DAY	Stormwater Tract East	132.7524	22.54	8.27
SFWMD 25YR-3 DAY	Stormwater Tract East	133.5024	22.53	8.32
SFWMD 25YR-3 DAY	Stormwater Tract East	134.2524	22.51	8.38
SFWMD 25YR-3 DAY	Stormwater Tract East	135.0024	22.50	8.43
SFWMD 25YR-3 DAY	Stormwater Tract East	135.7524	22.49	8.48
SFWMD 25YR-3 DAY	Stormwater Tract East	136.5024	22.47	8.53
SFWMD 25YR-3 DAY	Stormwater Tract East	137.2524	22.46	8.58
SFWMD 25YR-3 DAY	Stormwater Tract East	138.0024	22.44	8.63
SFWMD 25YR-3 DAY	Stormwater Tract East	138.7524	22.43	8.68
SFWMD 25YR-3 DAY	Stormwater Tract East	139.5024	22.42	8.73
SFWMD 25YR-3 DAY	Stormwater Tract East	140.2524	22.40	8.78
SFWMD 25YR-3 DAY	Stormwater Tract East	141.0024	22.39	8.83
SFWMD 25YR-3 DAY	Stormwater Tract East	141.7524	22.37	8.88
SFWMD 25YR-3 DAY	Stormwater Tract East	142.5024	22.36	8.93
SFWMD 25YR-3 DAY	Stormwater Tract East	143.2524	22.35	8.97

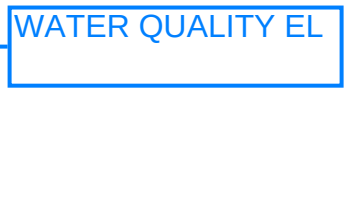
Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	144.0024	22.33	9.02
SFWMD 25YR-3 DAY	Stormwater Tract East	144.7524	22.32	9.07
SFWMD 25YR-3 DAY	Stormwater Tract East	145.5024	22.31	9.12
SFWMD 25YR-3 DAY	Stormwater Tract East	146.2524	22.29	9.17
SFWMD 25YR-3 DAY	Stormwater Tract East	147.0024	22.28	9.21
SFWMD 25YR-3 DAY	Stormwater Tract East	147.7524	22.27	9.26
SFWMD 25YR-3 DAY	Stormwater Tract East	148.5024	22.25	9.31
SFWMD 25YR-3 DAY	Stormwater Tract East	149.2524	22.24	9.35
SFWMD 25YR-3 DAY	Stormwater Tract East	150.0024	22.23	9.40
SFWMD 25YR-3 DAY	Stormwater Tract East	150.7524	22.21	9.45
SFWMD 25YR-3 DAY	Stormwater Tract East	151.5024	22.20	9.49
SFWMD 25YR-3 DAY	Stormwater Tract East	152.2524	22.19	9.54
SFWMD 25YR-3 DAY	Stormwater Tract East	153.0024	22.18	9.58
SFWMD 25YR-3 DAY	Stormwater Tract East	153.7524	22.16	9.63
SFWMD 25YR-3 DAY	Stormwater Tract East	154.5024	22.15	9.67
SFWMD 25YR-3 DAY	Stormwater Tract East	155.2524	22.14	9.72
SFWMD 25YR-3 DAY	Stormwater Tract East	156.0024	22.12	9.76
SFWMD 25YR-3 DAY	Stormwater Tract East	156.7524	22.11	9.81
SFWMD 25YR-3 DAY	Stormwater Tract East	157.5024	22.10	9.85
SFWMD 25YR-3 DAY	Stormwater Tract East	158.2524	22.09	9.89
SFWMD 25YR-3 DAY	Stormwater Tract East	159.0024	22.07	9.94
SFWMD 25YR-3 DAY	Stormwater Tract East	159.7524	22.06	9.98
SFWMD 25YR-3 DAY	Stormwater Tract East	160.5024	22.05	10.02
SFWMD 25YR-3 DAY	Stormwater Tract East	161.2524	22.04	10.07
SFWMD 25YR-3 DAY	Stormwater Tract East	162.0024	22.02	10.11
SFWMD 25YR-3 DAY	Stormwater Tract East	162.7524	22.01	10.15
SFWMD 25YR-3 DAY	Stormwater Tract East	163.5024	22.00	10.19
SFWMD 25YR-3 DAY	Stormwater Tract East	164.2524	21.99	10.24
SFWMD 25YR-3 DAY	Stormwater Tract East	165.0024	21.98	10.28
SFWMD 25YR-3 DAY	Stormwater Tract East	165.7524	21.96	10.32
SFWMD 25YR-3 DAY	Stormwater Tract East	166.5024	21.95	10.36
SFWMD 25YR-3 DAY	Stormwater Tract East	167.2524	21.94	10.40
SFWMD 25YR-3 DAY	Stormwater Tract East	168.0024	21.93	10.44
SFWMD 25YR-3 DAY	Stormwater Tract East	168.7524	21.91	10.48
SFWMD 25YR-3 DAY	Stormwater Tract East	169.5024	21.90	10.52
SFWMD 25YR-3 DAY	Stormwater Tract East	170.2524	21.89	10.56
SFWMD 25YR-3 DAY	Stormwater Tract East	171.0024	21.88	10.60
SFWMD 25YR-3 DAY	Stormwater Tract East	171.7524	21.87	10.64
SFWMD 25YR-3 DAY	Stormwater Tract East	172.5024	21.86	10.68
SFWMD 25YR-3 DAY	Stormwater Tract East	173.2524	21.84	10.72
SFWMD 25YR-3 DAY	Stormwater Tract East	174.0024	21.83	10.76
SFWMD 25YR-3 DAY	Stormwater Tract East	174.7524	21.82	10.80
SFWMD 25YR-3 DAY	Stormwater Tract East	175.5024	21.81	10.84
SFWMD 25YR-3 DAY	Stormwater Tract East	176.2524	21.80	10.88
SFWMD 25YR-3 DAY	Stormwater Tract East	177.0024	21.79	10.92
SFWMD 25YR-3 DAY	Stormwater Tract East	177.7524	21.78	10.95
SFWMD 25YR-3 DAY	Stormwater Tract East	178.5024	21.77	10.99
SFWMD 25YR-3 DAY	Stormwater Tract East	179.2524	21.75	11.03

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	180.0024	21.74	11.07
SFWMD 25YR-3 DAY	Stormwater Tract East	180.7524	21.73	11.10
SFWMD 25YR-3 DAY	Stormwater Tract East	181.5024	21.72	11.14
SFWMD 25YR-3 DAY	Stormwater Tract East	182.2524	21.71	11.18
SFWMD 25YR-3 DAY	Stormwater Tract East	183.0024	21.70	11.21
SFWMD 25YR-3 DAY	Stormwater Tract East	183.7524	21.69	11.25
SFWMD 25YR-3 DAY	Stormwater Tract East	184.5024	21.68	11.29
SFWMD 25YR-3 DAY	Stormwater Tract East	185.2524	21.67	11.32
SFWMD 25YR-3 DAY	Stormwater Tract East	186.0024	21.66	11.36
SFWMD 25YR-3 DAY	Stormwater Tract East	186.7524	21.65	11.39
SFWMD 25YR-3 DAY	Stormwater Tract East	187.5024	21.64	11.43
SFWMD 25YR-3 DAY	Stormwater Tract East	188.2524	21.62	11.46
SFWMD 25YR-3 DAY	Stormwater Tract East	189.0024	21.61	11.50
SFWMD 25YR-3 DAY	Stormwater Tract East	189.7524	21.60	11.53
SFWMD 25YR-3 DAY	Stormwater Tract East	190.5024	21.59	11.57
SFWMD 25YR-3 DAY	Stormwater Tract East	191.2524	21.58	11.60
SFWMD 25YR-3 DAY	Stormwater Tract East	192.0024	21.57	11.64
SFWMD 25YR-3 DAY	Stormwater Tract East	192.7524	21.56	11.67
SFWMD 25YR-3 DAY	Stormwater Tract East	193.5024	21.55	11.71
SFWMD 25YR-3 DAY	Stormwater Tract East	194.2524	21.54	11.74
SFWMD 25YR-3 DAY	Stormwater Tract East	195.0024	21.53	11.77
SFWMD 25YR-3 DAY	Stormwater Tract East	195.7524	21.52	11.81
SFWMD 25YR-3 DAY	Stormwater Tract East	196.5024	21.51	11.84
SFWMD 25YR-3 DAY	Stormwater Tract East	197.2524	21.50	11.87
SFWMD 25YR-3 DAY	Stormwater Tract East	198.0024	21.49	11.90
SFWMD 25YR-3 DAY	Stormwater Tract East	198.7524	21.48	11.94
SFWMD 25YR-3 DAY	Stormwater Tract East	199.5024	21.47	11.97
SFWMD 25YR-3 DAY	Stormwater Tract East	200.2524	21.46	12.00
SFWMD 25YR-3 DAY	Stormwater Tract East	201.0024	21.45	12.03
SFWMD 25YR-3 DAY	Stormwater Tract East	201.7524	21.45	12.06
SFWMD 25YR-3 DAY	Stormwater Tract East	202.5024	21.44	12.10
SFWMD 25YR-3 DAY	Stormwater Tract East	203.2524	21.43	12.13
SFWMD 25YR-3 DAY	Stormwater Tract East	204.0024	21.42	12.16
SFWMD 25YR-3 DAY	Stormwater Tract East	204.7524	21.41	12.19
SFWMD 25YR-3 DAY	Stormwater Tract East	205.5024	21.40	12.22
SFWMD 25YR-3 DAY	Stormwater Tract East	206.2524	21.39	12.25
SFWMD 25YR-3 DAY	Stormwater Tract East	207.0024	21.38	12.28
SFWMD 25YR-3 DAY	Stormwater Tract East	207.7524	21.37	12.31
SFWMD 25YR-3 DAY	Stormwater Tract East	208.5024	21.36	12.34
SFWMD 25YR-3 DAY	Stormwater Tract East	209.2524	21.35	12.37
SFWMD 25YR-3 DAY	Stormwater Tract East	210.0024	21.34	12.40
SFWMD 25YR-3 DAY	Stormwater Tract East	210.7524	21.34	12.43
SFWMD 25YR-3 DAY	Stormwater Tract East	211.5024	21.33	12.46
SFWMD 25YR-3 DAY	Stormwater Tract East	212.2524	21.32	12.49
SFWMD 25YR-3 DAY	Stormwater Tract East	213.0024	21.31	12.52
SFWMD 25YR-3 DAY	Stormwater Tract East	213.7524	21.30	12.55
SFWMD 25YR-3 DAY	Stormwater Tract East	214.5024	21.29	12.58
SFWMD 25YR-3 DAY	Stormwater Tract East	215.2524	21.28	12.61

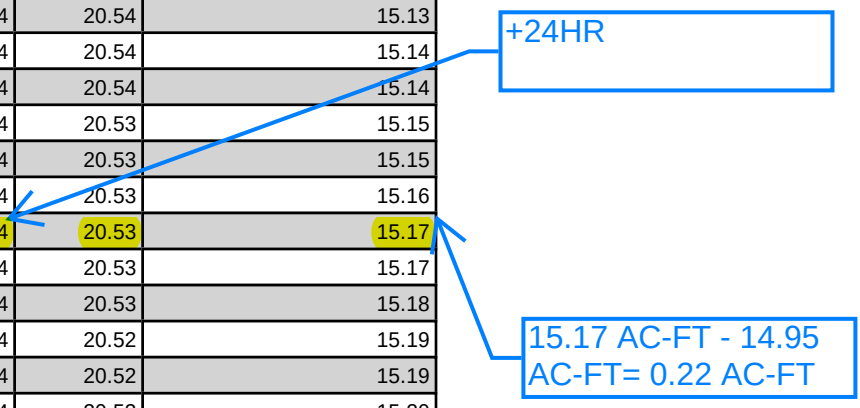
Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	216.0024	21.27	12.63
SFWMD 25YR-3 DAY	Stormwater Tract East	216.7524	21.27	12.66
SFWMD 25YR-3 DAY	Stormwater Tract East	217.5024	21.26	12.69
SFWMD 25YR-3 DAY	Stormwater Tract East	218.2524	21.25	12.72
SFWMD 25YR-3 DAY	Stormwater Tract East	219.0024	21.24	12.75
SFWMD 25YR-3 DAY	Stormwater Tract East	219.7524	21.23	12.77
SFWMD 25YR-3 DAY	Stormwater Tract East	220.5024	21.22	12.80
SFWMD 25YR-3 DAY	Stormwater Tract East	221.2524	21.22	12.83
SFWMD 25YR-3 DAY	Stormwater Tract East	222.0024	21.21	12.85
SFWMD 25YR-3 DAY	Stormwater Tract East	222.7524	21.20	12.88
SFWMD 25YR-3 DAY	Stormwater Tract East	223.5024	21.19	12.91
SFWMD 25YR-3 DAY	Stormwater Tract East	224.2524	21.18	12.94
SFWMD 25YR-3 DAY	Stormwater Tract East	225.0024	21.18	12.96
SFWMD 25YR-3 DAY	Stormwater Tract East	225.7524	21.17	12.99
SFWMD 25YR-3 DAY	Stormwater Tract East	226.5024	21.16	13.01
SFWMD 25YR-3 DAY	Stormwater Tract East	227.2524	21.15	13.04
SFWMD 25YR-3 DAY	Stormwater Tract East	228.0024	21.15	13.07
SFWMD 25YR-3 DAY	Stormwater Tract East	228.7524	21.14	13.09
SFWMD 25YR-3 DAY	Stormwater Tract East	229.5024	21.13	13.12
SFWMD 25YR-3 DAY	Stormwater Tract East	230.2524	21.12	13.14
SFWMD 25YR-3 DAY	Stormwater Tract East	231.0024	21.12	13.17
SFWMD 25YR-3 DAY	Stormwater Tract East	231.7524	21.11	13.19
SFWMD 25YR-3 DAY	Stormwater Tract East	232.5024	21.10	13.22
SFWMD 25YR-3 DAY	Stormwater Tract East	233.2524	21.09	13.24
SFWMD 25YR-3 DAY	Stormwater Tract East	234.0024	21.09	13.27
SFWMD 25YR-3 DAY	Stormwater Tract East	234.7524	21.08	13.29
SFWMD 25YR-3 DAY	Stormwater Tract East	235.5024	21.07	13.31
SFWMD 25YR-3 DAY	Stormwater Tract East	236.2524	21.06	13.34
SFWMD 25YR-3 DAY	Stormwater Tract East	237.0024	21.06	13.36
SFWMD 25YR-3 DAY	Stormwater Tract East	237.7524	21.05	13.38
SFWMD 25YR-3 DAY	Stormwater Tract East	238.5024	21.04	13.41
SFWMD 25YR-3 DAY	Stormwater Tract East	239.2524	21.04	13.43
SFWMD 25YR-3 DAY	Stormwater Tract East	240.0024	21.03	13.45
SFWMD 25YR-3 DAY	Stormwater Tract East	240.7524	21.02	13.48
SFWMD 25YR-3 DAY	Stormwater Tract East	241.5024	21.02	13.50
SFWMD 25YR-3 DAY	Stormwater Tract East	242.2524	21.01	13.52
SFWMD 25YR-3 DAY	Stormwater Tract East	243.0024	21.00	13.54
SFWMD 25YR-3 DAY	Stormwater Tract East	243.7524	21.00	13.57
SFWMD 25YR-3 DAY	Stormwater Tract East	244.5024	20.99	13.59
SFWMD 25YR-3 DAY	Stormwater Tract East	245.2524	20.98	13.61
SFWMD 25YR-3 DAY	Stormwater Tract East	246.0024	20.98	13.63
SFWMD 25YR-3 DAY	Stormwater Tract East	246.7524	20.97	13.65
SFWMD 25YR-3 DAY	Stormwater Tract East	247.5024	20.96	13.68
SFWMD 25YR-3 DAY	Stormwater Tract East	248.2524	20.96	13.70
SFWMD 25YR-3 DAY	Stormwater Tract East	249.0024	20.95	13.72
SFWMD 25YR-3 DAY	Stormwater Tract East	249.7524	20.95	13.74
SFWMD 25YR-3 DAY	Stormwater Tract East	250.5024	20.94	13.76
SFWMD 25YR-3 DAY	Stormwater Tract East	251.2524	20.93	13.78

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	252.0024	20.93	13.80
SFWMD 25YR-3 DAY	Stormwater Tract East	252.7524	20.92	13.82
SFWMD 25YR-3 DAY	Stormwater Tract East	253.5024	20.92	13.84
SFWMD 25YR-3 DAY	Stormwater Tract East	254.2524	20.91	13.86
SFWMD 25YR-3 DAY	Stormwater Tract East	255.0024	20.90	13.88
SFWMD 25YR-3 DAY	Stormwater Tract East	255.7524	20.90	13.90
SFWMD 25YR-3 DAY	Stormwater Tract East	256.5024	20.89	13.92
SFWMD 25YR-3 DAY	Stormwater Tract East	257.2524	20.89	13.94
SFWMD 25YR-3 DAY	Stormwater Tract East	258.0024	20.88	13.96
SFWMD 25YR-3 DAY	Stormwater Tract East	258.7524	20.88	13.97
SFWMD 25YR-3 DAY	Stormwater Tract East	259.5024	20.87	13.99
SFWMD 25YR-3 DAY	Stormwater Tract East	260.2524	20.87	14.01
SFWMD 25YR-3 DAY	Stormwater Tract East	261.0024	20.86	14.03
SFWMD 25YR-3 DAY	Stormwater Tract East	261.7524	20.85	14.05
SFWMD 25YR-3 DAY	Stormwater Tract East	262.5024	20.85	14.06
SFWMD 25YR-3 DAY	Stormwater Tract East	263.2524	20.84	14.08
SFWMD 25YR-3 DAY	Stormwater Tract East	264.0024	20.84	14.10
SFWMD 25YR-3 DAY	Stormwater Tract East	264.7524	20.83	14.12
SFWMD 25YR-3 DAY	Stormwater Tract East	265.5024	20.83	14.13
SFWMD 25YR-3 DAY	Stormwater Tract East	266.2524	20.82	14.15
SFWMD 25YR-3 DAY	Stormwater Tract East	267.0024	20.82	14.17
SFWMD 25YR-3 DAY	Stormwater Tract East	267.7524	20.82	14.18
SFWMD 25YR-3 DAY	Stormwater Tract East	268.5024	20.81	14.20
SFWMD 25YR-3 DAY	Stormwater Tract East	269.2524	20.81	14.21
SFWMD 25YR-3 DAY	Stormwater Tract East	270.0024	20.80	14.23
SFWMD 25YR-3 DAY	Stormwater Tract East	270.7524	20.80	14.24
SFWMD 25YR-3 DAY	Stormwater Tract East	271.5024	20.79	14.26
SFWMD 25YR-3 DAY	Stormwater Tract East	272.2524	20.79	14.27
SFWMD 25YR-3 DAY	Stormwater Tract East	273.0024	20.78	14.29
SFWMD 25YR-3 DAY	Stormwater Tract East	273.7524	20.78	14.30
SFWMD 25YR-3 DAY	Stormwater Tract East	274.5024	20.78	14.32
SFWMD 25YR-3 DAY	Stormwater Tract East	275.2524	20.77	14.33
SFWMD 25YR-3 DAY	Stormwater Tract East	276.0024	20.77	14.35
SFWMD 25YR-3 DAY	Stormwater Tract East	276.7524	20.76	14.36
SFWMD 25YR-3 DAY	Stormwater Tract East	277.5024	20.76	14.38
SFWMD 25YR-3 DAY	Stormwater Tract East	278.2524	20.75	14.39
SFWMD 25YR-3 DAY	Stormwater Tract East	279.0024	20.75	14.40
SFWMD 25YR-3 DAY	Stormwater Tract East	279.7524	20.75	14.42
SFWMD 25YR-3 DAY	Stormwater Tract East	280.5024	20.74	14.43
SFWMD 25YR-3 DAY	Stormwater Tract East	281.2524	20.74	14.44
SFWMD 25YR-3 DAY	Stormwater Tract East	282.0024	20.74	14.46
SFWMD 25YR-3 DAY	Stormwater Tract East	282.7524	20.73	14.47
SFWMD 25YR-3 DAY	Stormwater Tract East	283.5024	20.73	14.48
SFWMD 25YR-3 DAY	Stormwater Tract East	284.2524	20.72	14.49
SFWMD 25YR-3 DAY	Stormwater Tract East	285.0024	20.72	14.51
SFWMD 25YR-3 DAY	Stormwater Tract East	285.7524	20.72	14.52
SFWMD 25YR-3 DAY	Stormwater Tract East	286.5024	20.71	14.53
SFWMD 25YR-3 DAY	Stormwater Tract East	287.2524	20.71	14.54

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	288.0024	20.71	14.55
SFWMD 25YR-3 DAY	Stormwater Tract East	288.7524	20.70	14.56
SFWMD 25YR-3 DAY	Stormwater Tract East	289.5024	20.70	14.58
SFWMD 25YR-3 DAY	Stormwater Tract East	290.2524	20.70	14.59
SFWMD 25YR-3 DAY	Stormwater Tract East	291.0024	20.69	14.60
SFWMD 25YR-3 DAY	Stormwater Tract East	291.7524	20.69	14.61
SFWMD 25YR-3 DAY	Stormwater Tract East	292.5024	20.69	14.62
SFWMD 25YR-3 DAY	Stormwater Tract East	293.2524	20.68	14.63
SFWMD 25YR-3 DAY	Stormwater Tract East	294.0024	20.68	14.64
SFWMD 25YR-3 DAY	Stormwater Tract East	294.7524	20.68	14.65
SFWMD 25YR-3 DAY	Stormwater Tract East	295.5024	20.67	14.66
SFWMD 25YR-3 DAY	Stormwater Tract East	296.2524	20.67	14.67
SFWMD 25YR-3 DAY	Stormwater Tract East	297.0024	20.67	14.68
SFWMD 25YR-3 DAY	Stormwater Tract East	297.7524	20.67	14.69
SFWMD 25YR-3 DAY	Stormwater Tract East	298.5024	20.66	14.70
SFWMD 25YR-3 DAY	Stormwater Tract East	299.2524	20.66	14.71
SFWMD 25YR-3 DAY	Stormwater Tract East	300.0024	20.66	14.72
SFWMD 25YR-3 DAY	Stormwater Tract East	300.7524	20.65	14.73
SFWMD 25YR-3 DAY	Stormwater Tract East	301.5024	20.65	14.74
SFWMD 25YR-3 DAY	Stormwater Tract East	302.2524	20.65	14.75
SFWMD 25YR-3 DAY	Stormwater Tract East	303.0024	20.65	14.76
SFWMD 25YR-3 DAY	Stormwater Tract East	303.7524	20.64	14.77
SFWMD 25YR-3 DAY	Stormwater Tract East	304.5024	20.64	14.78
SFWMD 25YR-3 DAY	Stormwater Tract East	305.2524	20.64	14.79
SFWMD 25YR-3 DAY	Stormwater Tract East	306.0024	20.64	14.80
SFWMD 25YR-3 DAY	Stormwater Tract East	306.7524	20.63	14.81
SFWMD 25YR-3 DAY	Stormwater Tract East	307.5024	20.63	14.82
SFWMD 25YR-3 DAY	Stormwater Tract East	308.2524	20.63	14.83
SFWMD 25YR-3 DAY	Stormwater Tract East	309.0024	20.62	14.84
SFWMD 25YR-3 DAY	Stormwater Tract East	309.7524	20.62	14.84
SFWMD 25YR-3 DAY	Stormwater Tract East	310.5024	20.62	14.85
SFWMD 25YR-3 DAY	Stormwater Tract East	311.2524	20.62	14.86
SFWMD 25YR-3 DAY	Stormwater Tract East	312.0024	20.61	14.87
SFWMD 25YR-3 DAY	Stormwater Tract East	312.7524	20.61	14.88
SFWMD 25YR-3 DAY	Stormwater Tract East	313.5024	20.61	14.89
SFWMD 25YR-3 DAY	Stormwater Tract East	314.2524	20.61	14.90
SFWMD 25YR-3 DAY	Stormwater Tract East	315.0024	20.60	14.90
SFWMD 25YR-3 DAY	Stormwater Tract East	315.7524	20.60	14.91
SFWMD 25YR-3 DAY	Stormwater Tract East	316.5024	20.60	14.92
SFWMD 25YR-3 DAY	Stormwater Tract East	317.2524	20.60	14.93
SFWMD 25YR-3 DAY	Stormwater Tract East	318.0024	20.60	14.94
SFWMD 25YR-3 DAY	Stormwater Tract East	318.7524	20.59	14.95
SFWMD 25YR-3 DAY	Stormwater Tract East	319.5024	20.59	14.95
SFWMD 25YR-3 DAY	Stormwater Tract East	320.2524	20.59	14.96
SFWMD 25YR-3 DAY	Stormwater Tract East	321.0024	20.59	14.97
SFWMD 25YR-3 DAY	Stormwater Tract East	321.7524	20.58	14.98
SFWMD 25YR-3 DAY	Stormwater Tract East	322.5024	20.58	14.99
SFWMD 25YR-3 DAY	Stormwater Tract East	323.2524	20.58	14.99



Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	324.0024	20.58	15.00
SFWMD 25YR-3 DAY	Stormwater Tract East	324.7524	20.57	15.01
SFWMD 25YR-3 DAY	Stormwater Tract East	325.5024	20.57	15.02
SFWMD 25YR-3 DAY	Stormwater Tract East	326.2524	20.57	15.02
SFWMD 25YR-3 DAY	Stormwater Tract East	327.0024	20.57	15.03
SFWMD 25YR-3 DAY	Stormwater Tract East	327.7524	20.57	15.04
SFWMD 25YR-3 DAY	Stormwater Tract East	328.5024	20.56	15.05
SFWMD 25YR-3 DAY	Stormwater Tract East	329.2524	20.56	15.05
SFWMD 25YR-3 DAY	Stormwater Tract East	330.0024	20.56	15.06
SFWMD 25YR-3 DAY	Stormwater Tract East	330.7524	20.56	15.07
SFWMD 25YR-3 DAY	Stormwater Tract East	331.5024	20.56	15.07
SFWMD 25YR-3 DAY	Stormwater Tract East	332.2524	20.55	15.08
SFWMD 25YR-3 DAY	Stormwater Tract East	333.0024	20.55	15.09
SFWMD 25YR-3 DAY	Stormwater Tract East	333.7524	20.55	15.10
SFWMD 25YR-3 DAY	Stormwater Tract East	334.5024	20.55	15.10
SFWMD 25YR-3 DAY	Stormwater Tract East	335.2524	20.55	15.11
SFWMD 25YR-3 DAY	Stormwater Tract East	336.0024	20.54	15.12
SFWMD 25YR-3 DAY	Stormwater Tract East	336.7524	20.54	15.12
SFWMD 25YR-3 DAY	Stormwater Tract East	337.5024	20.54	15.13
SFWMD 25YR-3 DAY	Stormwater Tract East	338.2524	20.54	15.14
SFWMD 25YR-3 DAY	Stormwater Tract East	339.0024	20.54	15.14
SFWMD 25YR-3 DAY	Stormwater Tract East	339.7524	20.53	15.15
SFWMD 25YR-3 DAY	Stormwater Tract East	340.5024	20.53	15.15
SFWMD 25YR-3 DAY	Stormwater Tract East	341.2524	20.53	15.16
SFWMD 25YR-3 DAY	Stormwater Tract East	342.0024	20.53	15.17
SFWMD 25YR-3 DAY	Stormwater Tract East	342.7524	20.53	15.17
SFWMD 25YR-3 DAY	Stormwater Tract East	343.5024	20.53	15.18
SFWMD 25YR-3 DAY	Stormwater Tract East	344.2524	20.52	15.19
SFWMD 25YR-3 DAY	Stormwater Tract East	345.0024	20.52	15.19
SFWMD 25YR-3 DAY	Stormwater Tract East	345.7524	20.52	15.20
SFWMD 25YR-3 DAY	Stormwater Tract East	346.5024	20.52	15.20
SFWMD 25YR-3 DAY	Stormwater Tract East	347.2524	20.52	15.21
SFWMD 25YR-3 DAY	Stormwater Tract East	348.0024	20.52	15.21
SFWMD 25YR-3 DAY	Stormwater Tract East	348.7524	20.51	15.22
SFWMD 25YR-3 DAY	Stormwater Tract East	349.5024	20.51	15.23
SFWMD 25YR-3 DAY	Stormwater Tract East	350.2524	20.51	15.23
SFWMD 25YR-3 DAY	Stormwater Tract East	351.0024	20.51	15.24
SFWMD 25YR-3 DAY	Stormwater Tract East	351.7524	20.51	15.24
SFWMD 25YR-3 DAY	Stormwater Tract East	352.5024	20.51	15.25
SFWMD 25YR-3 DAY	Stormwater Tract East	353.2524	20.50	15.25
SFWMD 25YR-3 DAY	Stormwater Tract East	354.0024	20.50	15.26
SFWMD 25YR-3 DAY	Stormwater Tract East	354.7524	20.50	15.26
SFWMD 25YR-3 DAY	Stormwater Tract East	355.5024	20.50	15.27
SFWMD 25YR-3 DAY	Stormwater Tract East	356.2524	20.50	15.27
SFWMD 25YR-3 DAY	Stormwater Tract East	357.0024	20.50	15.28
SFWMD 25YR-3 DAY	Stormwater Tract East	357.7524	20.50	15.28
SFWMD 25YR-3 DAY	Stormwater Tract East	358.5024	20.49	15.29
SFWMD 25YR-3 DAY	Stormwater Tract East	359.2524	20.49	15.29



100 Year, 3 Day, Zero Discharge Node Max

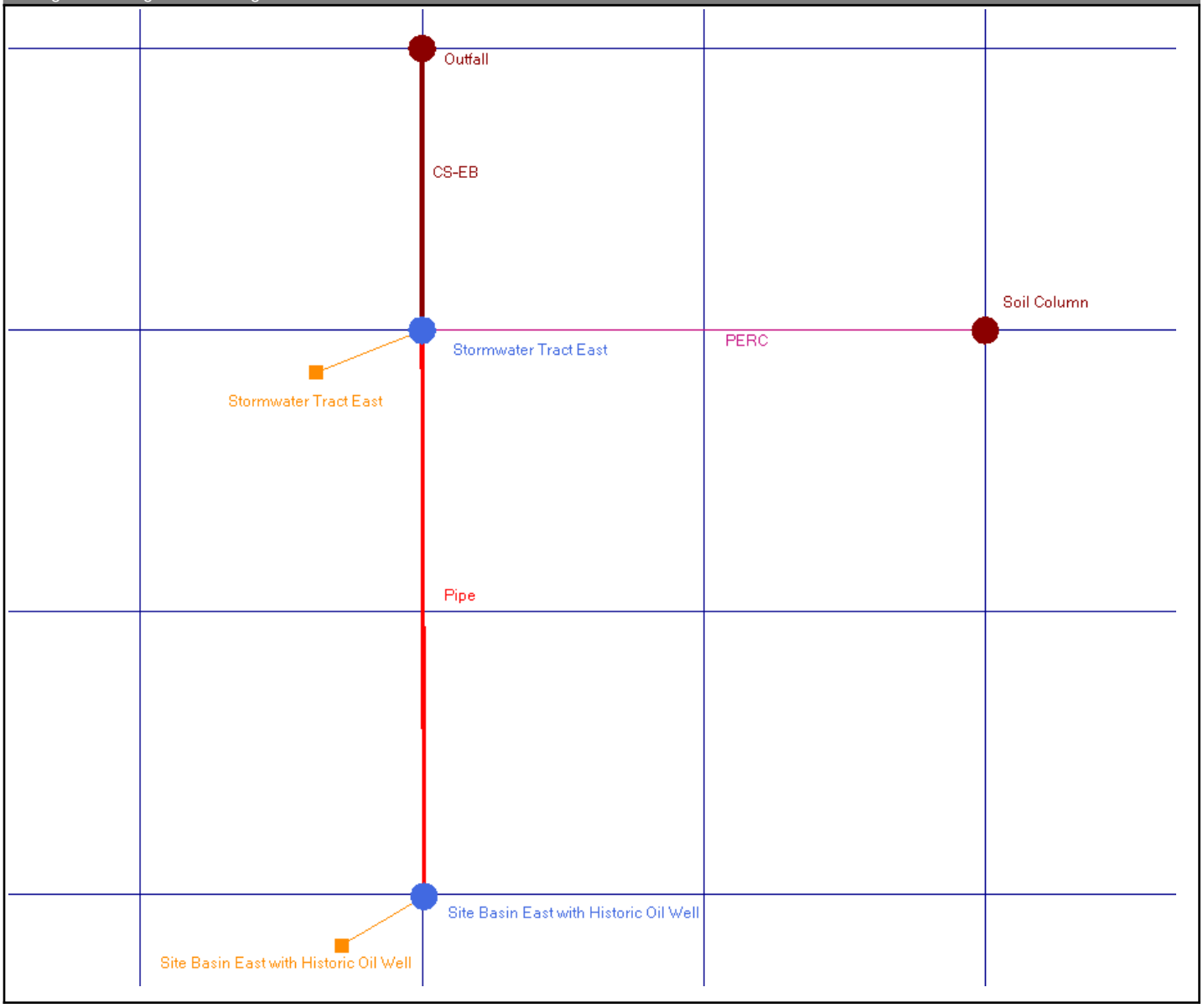
Sim	Node Name	Relative Time [hrs]	Maximum Stage [ft]	Time to Maximum Stage [hrs]
SFWMD 100YR-3 DAY	Site Basin East and Historic Oil Well	356.0039	23.88	72.7373
SFWMD 100YR-3 DAY	Stormwater Tract East	356.0039	23.88	72.9289

100 Year, 3 Day, Link Discharge

Sim	Link Name	From Node Name	To Node Name	Relative Time [hrs]	Maximum Flow Rate [cfs]	Time to Maximum Flow Rate [hrs
SFWMD 100YR-3 DAY	CS-EB	~~D~CS-EB~N	Outfall	356.0039	0.00	0.0000

25 Year, 3 Day Back to Back Input Summary

Background Image: Nodal Diagram



Node: Outfall

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	20.11
0	0	0	360.0000	19.00

Comment:

Node: Site Basin East and Historic Oil Well

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 20.49 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

INITIAL STAGE SET AT 20.49 (FOR BACK TO BACK EVENTS)

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
20.00	0.0000	0
22.00	0.0000	0
22.99	0.0010	44
23.00	6.4100	279220
23.50	8.0100	348916
24.50	13.6700	595465
26.00	14.4100	627700

Comment:

Node: Soil Column

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	19.00
0	0	0	360.0000	19.00

Comment:

Node: Stormwater Tract East

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 20.49 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

INITIAL STAGE SET AT 20.49 (FOR BACK TO BACK EVENTS)

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0

Stage [ft]	Area [ac]	Area [ft2]
19.99	0.0010	44
20.00	3.0800	134165
22.00	3.4200	148975
23.00	3.8700	168577
24.50	4.1000	178596
26.00	4.3200	188179

Comment:

Manual Basin: Site Basin East and Historic Oil Well

Scenario: Scenario1
Node: Site Basin East and Historic Oil Well
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 19.3000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 16.5500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
16.5500	Site Basin East and Historic Oil Well	Site Basin East and Historic Oil Well	

Comment:

Manual Basin: Stormwater Tract East

Scenario: Scenario1
Node: Stormwater Tract East
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.3200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
4.3200	Stormwater Tract East	Stormwater Tract East	

Comment:

Drop Structure Link: CS-EB

Scenario: Scenario1
From Node: Stormwater Tract East
To Node: Outfall
Link Count: 1
Pipe Flow Direction: Both

Upstream Pipe	Downstream Pipe
Invert: 15.00 ft	Invert: 15.00 ft
Manning's N: 0.0120	Manning's N: 0.0120
Geometry: Circular	Geometry: Circular
Max Depth: 1.50 ft	Max Depth: 1.50 ft
Bottom Clip	

Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	68.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	20.28 ft
Control Elevation:	19.00 ft
Max Depth:	0.25 ft
Max Width:	0.25 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: Retention required to elevation 20.28 FT-NAVD

Weir Component

Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Circular
Invert:	20.59 ft
Control Elevation:	19.00 ft
Max Depth:	0.25 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Percolation Link: PERC

Scenario:	Scenario1	Surface Area Option:	Use 1st Point in Stage/Area Table
From Node:	Stormwater Tract East	Vertical Flow Termination:	Horizontal Flow Algorithm
To Node:	Soil Column	Perimeter 1:	2572.00 ft
Link Count:	1	Perimeter 2:	2886.00 ft
Flow Direction:	Both	Perimeter 3:	5398.00 ft
Aquifer Base Elevation:	16.83 ft	Distance P1 to P2:	50.00 ft

Water Table Elevation:	19.00 ft		
Annual Recharge Rate:	0 ipy	Distance P2 to P3:	450.00 ft
Horizontal Conductivity:	21.840 fpd	# of Cells P1 to P2:	5
Vertical Conductivity:	14.560 fpd	# of Cells P2 to P3:	10
Fillable Porosity:	0.200		
Layer Thickness:	1.00 ft		

Comment:

Pipe Link: Pipe		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.10 ft	Invert:	15.10 ft
From Node:	Site Basin East and Historic Oil Well	Manning's N:	0.0120	Manning's N:	0.0120
		Geometry: Circular		Geometry: Circular	
To Node:	Stormwater Tract East	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Link Count:	1	Bottom Clip			
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Damping:	0.0000 ft	Op Table:		Op Table:	
Length:	1007.00 ft	Ref Node:		Ref Node:	
FHWA Code:	1	Manning's N:	0.0000	Manning's N:	0.0000
Entr Loss Coef:	0.50	Top Clip			
Exit Loss Coef:	0.50	Default:	0.00 ft	Default:	0.00 ft
Bend Loss Coef:	0.00	Op Table:		Op Table:	
Bend Location:	0.00 dec	Ref Node:		Ref Node:	
Energy Switch:	Energy	Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Curve Number: 1 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
Site Basin East and Historic Oil Well	Site Basin East and Historic Oil Well	60.0
Stormwater Tract East	Stormwater Tract East	60.0

Impervious: 1 [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia/S [dec]	Ia Impervious [in]	Ia Pervious [in]
Site Basin East and Historic Oil Well	100.00	100.00	0.00	0.00	0.000	0.000
Stormwater Tract East	0.00	0.00	0.00	0.00	0.000	0.000

Simulation: SFWMD 100YR-3 DAY

Scenario:	Scenario1
Run Date/Time:	9/15/2025 9:29:15 AM
Program Version:	StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 14.10 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 10YR-1 DAY

Scenario: Scenario1

Run Date/Time: 9/15/2025 9:11:15 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD
Rainfall Amount: 6.89 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 25YR-3 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 11:07:53 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000
0	0	0	72.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 10.70 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 5 YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/15/2025 9:11:41 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD

Rainfall Amount:	5.79 in
Storm Duration:	24.0000 hr
Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (1D):	100 ft2
Energy Switch (1D):	Energy

Comment:

25 Year, 3 Day Back to Back Node Max

Sim	Node Name	Relative Time [hrs]	Maximum Stage [ft]	Time to Maximum Stage [hrs]
SFWMD 25YR-3 DAY	Site Basin East and Historic Oil Well	359.2528	23.38	72.2331
SFWMD 25YR-3 DAY	Stormwater Tract East	359.2528	23.38	72.2997

I.4 Scenario 2 – East Basin (Applicant Owned Area)

Land Use Breakdown - Buildout and Site Data
Water Quantity Calculations
Water Quality Calculations
Time of Concentration, Allowable Discharge, and Bleed Down

I.4A StormWise Input Summary, 10 Year Storm (TW differs from 25 year)
I.4B 10 Year Node Max
I.4C StormWise Input Summary, 25 Year Storm (TW differs from 10 year)
I.4D 25 Year Node Max
I.4E 25 Year Link Max
I.4F 25 Year Node Time Series
I.4G 25 Year Node Volume
I.4H 100 Year Node Max
I.4I 100 Year Zero Discharge Link
I.4J 25 Year Back to Back, Input Summary
I.4K 25 Year Back to Back, Node Max

2. East Basin Design, Stand alone Applicant Owned Area (If in future oil well discharges to the LAMSID canal to east via proposed drainage easement), Confirm no changes will need to be made

Water Quantity

Sunniland Commons - Overall East Total Basin

Water Quantity Spreadsheet	
Lake Control (FT-NAVD)	19.00
Dry Retention Bottom (FT-NAVD)	20.00
Lake-TOB (FT-NAVD)	22.00
Parking (FT-NAVD)	23.00
Roads and 2nd Break (FT-NAVD)	24.50
Finished Floor (FT-NAVD)	26.00
Lake	
Area (AC)	0.00
Dry Retention Bottom	
Area (AC)	3.08
Dry Retention Bank	
Area (AC)	0.34
Open	
Area (AC)	3.86
Parking and Roadway	
Area (AC)	9.85
FF	
Area (AC)	2.14
Total Acres	19.27

Stage (FT-NAVD)	Area (AC)	Storage (AC-FT)
19.00	0.00	0.00
20.00	3.08	0.00
22.00	3.42	6.50
23.00	10.28	13.35
24.50	16.17	33.18
26.00	17.13	58.15

Impervious Area FF + Parking and Roadway
11.99 ac
62.2%

DCIA Site is taken as 100% DCIA
11.99 ac
100.0%

Curve Number

CN= 1000 / (10 + Sd)
CN= 1000 / 10 + 6.8
CN= 60

Soil Storage

Soil Compaction Factor= 25%
Depth to Water Table= 3.5 ft.
Soil Storage for pervious areas = Sd = 6.8 Inches

Depth to Water Table	Natural Available Storage	Developed Available Storage
0	0.00	0
1	0.60	0.45
1.5	1.50	1.10
2	2.50	1.88
2.5	4.50	3.40
3	6.60	4.95
3.5	8.90	6.80
4	10.90	8.18

Sunniland Commons - Site Basin East

Water Quantity Spreadsheet	
Lake Control (FT-NAVD)	19.00
Dry Retention Bottom (FT-NAVD)	20.00
Lake-TOB (FT-NAVD)	22.00
Parking (FT-NAVD)	23.00
Roads and 2nd Break (FT-NAVD)	24.50
Finished Floor (FT-NAVD)	26.00
Lake	
Area (AC)	0.00
Dry Retention Bottom	
Area (AC)	0.00
Dry Retention Bank	
Area (AC)	0.00
Open	
Area (AC)	2.96
Parking and Roadway	
Area (AC)	9.85
FF	
Area (AC)	2.14
Total Acres	14.95

Stage (FT-NAVD)	Area (AC)	Storage (AC-FT)
19.00	0.00	0.00
20.00	0.00	0.00
22.00	0.00	0.00
23.00	6.41	0.00
24.50	12.07	13.86
26.00	12.81	32.52

Impervious Area FF + Parking and Roadway
11.99 ac
80.2%

DCIA Site is taken as 100% DCIA
11.99 ac
100.0%

Curve Number

CN= 1000 / (10 + Sd)
CN= 1000 / 10 + 6.8
CN= 60

Soil Storage

Soil Compaction Factor= 25%
Depth to Water Table= 3.5 ft.
Soil Storage for pervious areas = Sd = 6.8 Inches

Depth to Water Table	Natural Available Storage	Developed Available Storage
0	0.00	0
1	0.60	0.45
1.5	1.50	1.10
2	2.50	1.88
2.5	4.50	3.40
3	6.60	4.95
3.5	8.90	6.80
4	10.90	8.18

Sunniland Commons - Stormwater Tract East

Water Quantity Spreadsheet	
Lake Control (FT-NAVD)	19.00
Dry Detention Bottom (FT-NAVD)	20.00
Lake-TOB (FT-NAVD)	22.00
Parking (FT-NAVD)	23.00
Roads and 2nd Break (FT-NAVD)	24.50
Finished Floor (FT-NAVD)	26.00
Lake	
Area (AC)	0.00
Dry Detention Bottom	
Area (AC)	3.08
Dry Detention Bank	
Area (AC)	0.34
Open	
Area (AC)	0.90
Parking and Roadway	
Area (AC)	0.00
FF	
Area (AC)	0.00
Total Acres	4.32

Stage (FT-NAVD)	Area (AC)	Storage (AC-FT)
19.00	0.00	0.00
20.00	3.08	0.00
22.00	3.42	6.50
23.00	3.87	10.15
24.50	4.10	16.12
26.00	4.32	22.43

Impervious Area

FF + Parking and Roadway
0.00 ac
0.0%

DCIA

0.00 ac

Curve Number

CN= 1000 / (10 + Sd)
CN= 1000 / 10 + 6.8
CN= 60

Soil Storage

Soil Compaction Factor= 25%
Depth to Water Table= 3.5 ft.
Soil Storage for pervious areas = Sd = 6.8 Inches

Depth to Water Table	Natural Available Storage	Developed Available Storage
0	0.00	0
1	0.60	0.45
1.5	1.50	1.10
2	2.50	1.88
2.5	4.50	3.40
3	6.60	4.95
3.5	8.90	6.80
4	10.90	8.18

Water Quality

Basin East

First Inch of Runoff Criteria:

Commercial Basin Area: 19.27 acres

Water Quality Requirement= 1.00 inches over entire area

19.27 x (1.00 in) x (1 ft/12 in) = **1.61 ac-ft**

% Impervious Criteria:

a) Site Area= Project Area - Lake - Roof

Site Area= 19.27 - 0.00 - 2.14

Site Area= 17.13 acres

b) Imp Area= Site Area - Pervious Area

Imp Area= 17.13 - 7.28

Imp Area= 9.85

c) Vol. Stor. Req'd= 2.5 in * (1 ft/12in) * (Imp. Area/Site Area) *(Project Area-Lake)

Vol. Stor. Req'd= 2.5 in * (1 ft/12in) * 0.58 * 19.27

Vol. Stor. Req'd= **2.31 ac-ft**

Water Quality Volume Used= Greatest of "First Inch of Runoff" or " % Impervious"

Water Quality Volume Used= **2.31 ac-ft** **Percent Impervious Criteria Governs**

Compensating Water Quality for Off Site

1.36 ac additional impervious area

Off Site Area*2.5 in*1 ft/12 in= **0.28 ac-ft**

Total Required On Site and Off Site: **2.59 ac-ft**

150% **3.89 ac-ft**

50% Credit for Dry Retention

3.89 ac-ft x 0.5 = **1.94 ac-ft**

Actual Water Quality Treated in Dry Detention

Stage (ft)	Area (ac)	Storage (ac-ft)
20.00	3.08	0.00
20.59	**3.18**	**1.92**
22.00	3.42	6.50

Volume Treated in dry detention area 2= **1.92 ac-ft** per stage/storage at structure

Note if East Basin only without required off site, required east basin amount is 1.73 ac-ft required. See table on next page.

Sunniland Commons Overall Water Quality	
Required West Basin (ac-ft)	1.57
Provided West Basin (ac-ft)	1.59
Required East and Compensating for Off Site 1.36 ac additional	1.94
Provided West Basin (ac-ft)	1.92
Total Requried (ac-ft)	3.51
Total Provided (ac-ft)	3.51

Tc, Allowable Discharge, and Bleed Down

Sunniland Commons: East Basin

Time of Concentration Calculation
tc=2*(Total Basin Area/640)^.5

Item	Site Basin East	Stormwater Tract East
Area (ac)	14.95	4.32
Tc	18.3	9.9
		*Use min 10 min

Allowable Discharge

Site Discharges to the North to the Lehigh Acres Municipal Services Improvement District (LAMSID) Canal.
Per Section 4.28 of LAMSID Permitting Policies, Design Criteria, the maximum allowable discharge is 30.1 CSM (cubic feet per second per square mile)

30.1 CSM =	0.047	cfs/acre
Allowable Discharge =	0.91	cfs

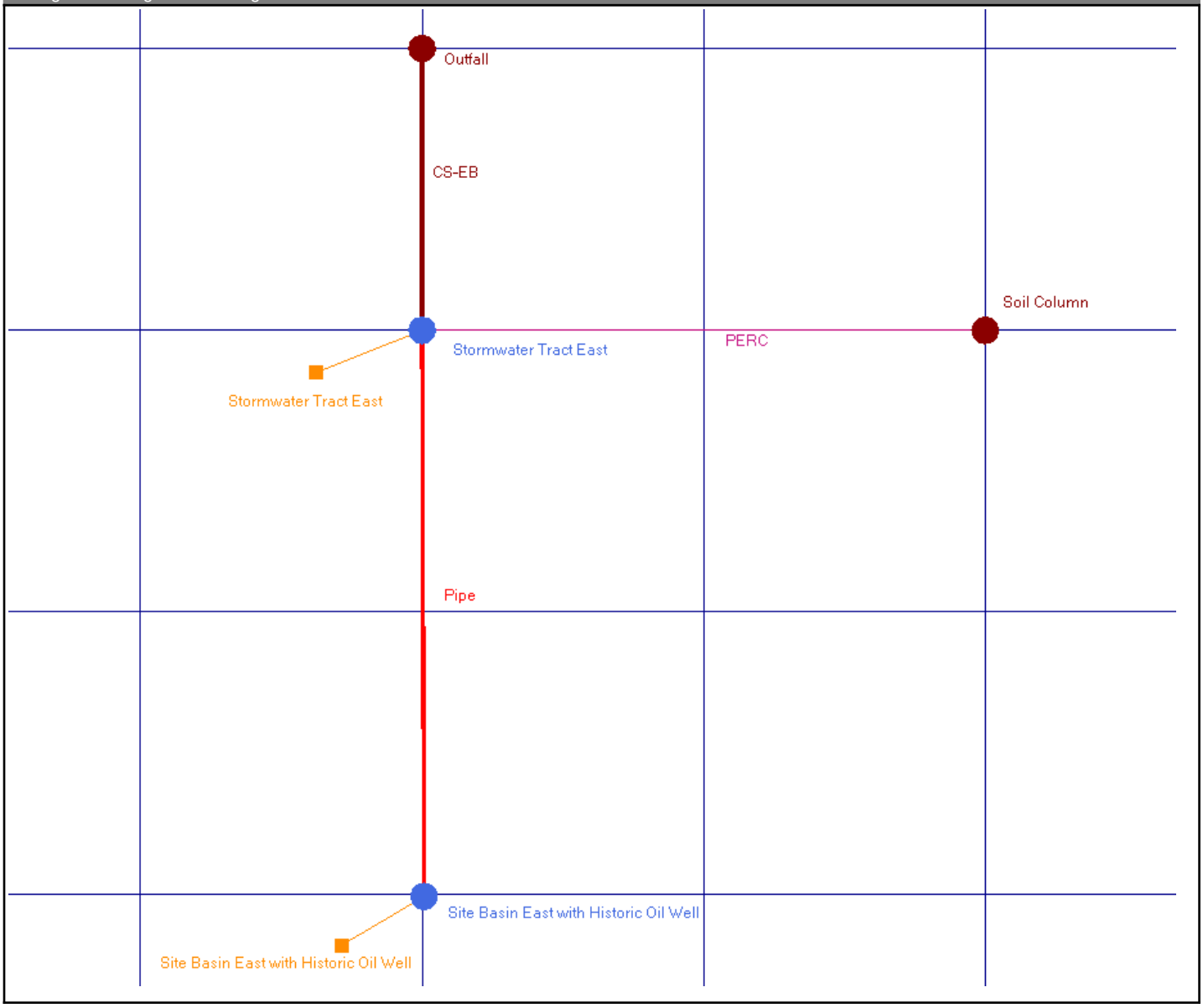
Bleed Down

No more than 1/2" in 24 hours
0.5 in*1 ft/12 in*Basin Area

Bleed Down	0.80	ac-ft

StormWise Input Summary – 5 Year and 10 Year Events (TW differs from 25 Year)

Background Image: Nodal Diagram



Node: Outfall

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

10 YR TW, SEE SWM REPORT FOR DETAILS

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	19.50
0	0	0	360.0000	19.00

Comment:

Node: Site Basin East

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
20.00	0.0000	0
22.00	0.0000	0
22.99	0.0010	44
23.00	6.4100	279220
24.50	12.0700	525769
26.00	12.8100	558004

Comment:

Node: Soil Column

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	19.00
0	0	0	360.0000	19.00

Comment:

Node: Stormwater Tract East

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.99	0.0010	44

Stage [ft]	Area [ac]	Area [ft2]
20.00	3.0800	134165
22.00	3.4200	148975
23.00	3.8700	168577
24.50	4.1000	178596
26.00	4.3200	188179

Comment:

Manual Basin: Site Basin East

Scenario: Scenario1
Node: Site Basin East
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 18.3000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 14.9500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
14.9500	Site Basin East	Site Basin East	

Comment:

Manual Basin: Stormwater Tract East

Scenario: Scenario1
Node: Stormwater Tract East
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.3200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
4.3200	Stormwater Tract East	Stormwater Tract East	

Comment:

Drop Structure Link: CS-EB

Scenario: Scenario1
From Node: Stormwater Tract East
To Node: Outfall
Link Count: 1
Pipe Flow Direction: Both
Solution: Combine

Upstream Pipe

Invert: 15.00 ft
Manning's N: 0.0120

Geometry: Circular

Max Depth: 1.50 ft

Bottom Clip

Default: 0.00 ft

Downstream Pipe

Invert: 15.00 ft
Manning's N: 0.0120

Geometry: Circular

Max Depth: 1.50 ft

Bottom Clip

Default: 0.00 ft

Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	68.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	20.28 ft
Control Elevation:	19.00 ft
Max Depth:	0.25 ft
Max Width:	0.25 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: Retention required to elevation 20.28 FT-NAVD

Weir Component

Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Circular
Invert:	20.59 ft
Control Elevation:	19.00 ft
Max Depth:	0.25 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Percolation Link: PERC

Scenario:	Scenario1	Surface Area Option:	Use 1st Point in Stage/Area Table
From Node:	Stormwater Tract East	Vertical Flow Termination:	Horizontal Flow Algorithm
To Node:	Soil Column	Perimeter 1:	2572.00 ft
Link Count:	1	Perimeter 2:	2886.00 ft
Flow Direction:	Both	Perimeter 3:	5398.00 ft
Aquifer Base Elevation:	16.83 ft	Distance P1 to P2:	50.00 ft
Water Table Elevation:	19.00 ft	Distance P2 to P3:	450.00 ft

Annual Recharge Rate:	0 ipy		
Horizontal Conductivity:	21.840 fpd	# of Cells P1 to P2:	5
Vertical Conductivity:	14.560 fpd	# of Cells P2 to P3:	10
Fillable Porosity:	0.200		
Layer Thickness:	1.00 ft		

Comment:

Pipe Link: Pipe		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.10 ft	Invert:	15.10 ft
From Node:	Site Basin East	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	Stormwater Tract East	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	1007.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Curve Number: 1 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
Site Basin East	Site Basin East	60.0
Stormwater Tract East	Stormwater Tract East	60.0

Impervious: 1 [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia/S [dec]	Ia Impervious [in]	Ia Pervious [in]
Site Basin East	100.00	100.00	0.00	0.00	0.000	0.000
Stormwater Tract East	0.00	0.00	0.00	0.00	0.000	0.000

Simulation: SFWMD 100YR-3 DAY

Scenario:	Scenario1
Run Date/Time:	9/23/2025 2:00:48 PM
Program Version:	StormWise 4.08.03

General

Run Mode:	Normal			
	Year	Month	Day	Hour [hr]

Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 14.10 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 10YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 2:09:49 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD
Rainfall Amount: 6.89 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 25YR-3 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 1:56:38 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000
0	0	0	72.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 10.70 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 5 YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 2:10:57 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD

Rainfall Amount:	5.79 in
Storm Duration:	24.0000 hr
Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (1D):	100 ft2
Energy Switch (1D):	Energy

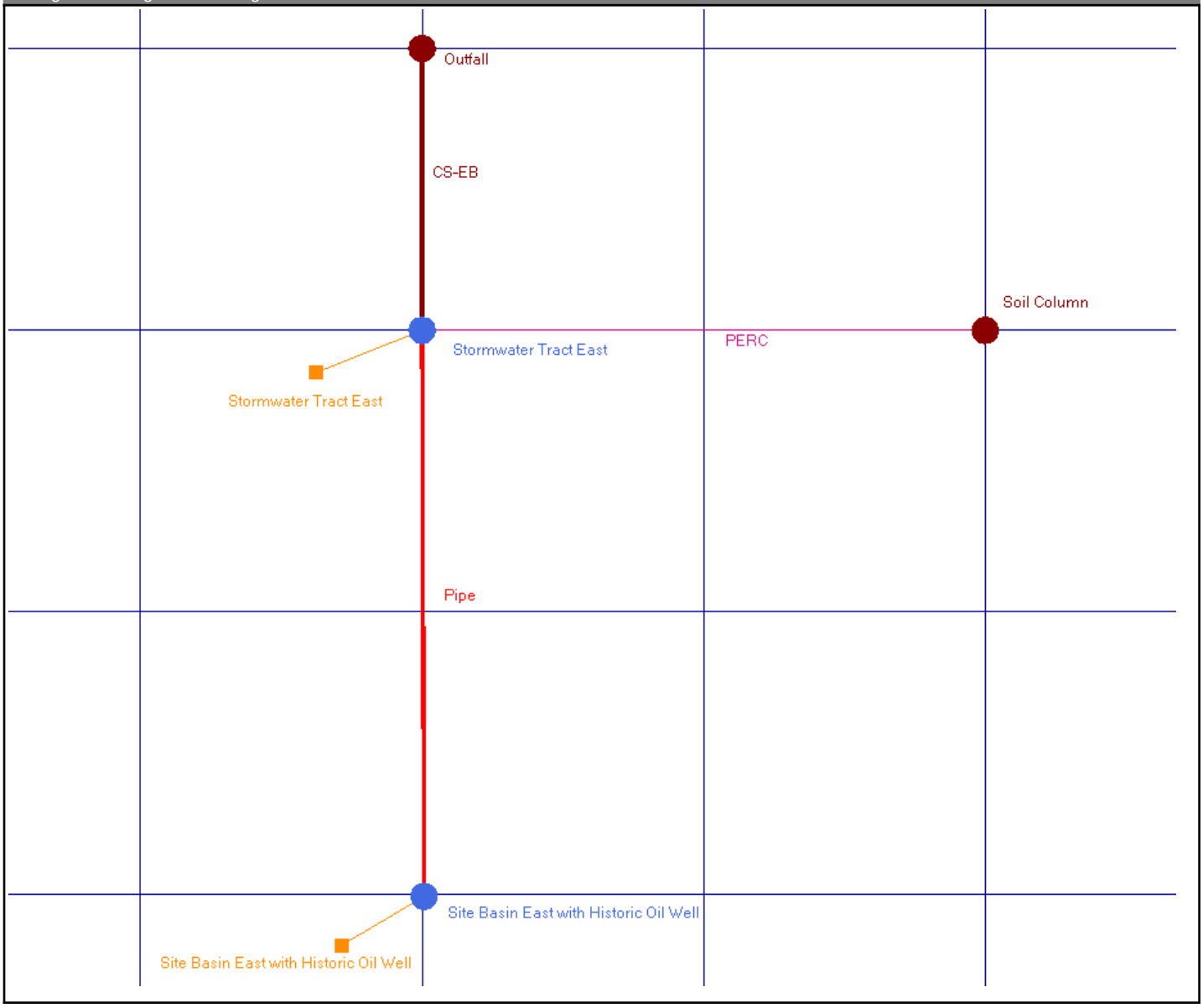
Comment:

5 year, 1 Day and 10 Year, 1 Day Node Max

Sim	Node Name	Relative Time [hrs]	Maximum Stage [ft]	Time to Maximum Stage [hrs]
SFWMD 10YR-1 DAY	Site Basin East	356.0057	23.09	12.6535
SFWMD 10YR-1 DAY	Stormwater Tract East	356.0057	22.41	24.1535
SFWMD 5 YR-1 DAY	Site Basin East	356.0040	23.03	12.4806
SFWMD 5 YR-1 DAY	Stormwater Tract East	356.0040	22.00	24.1282

StormWise Input Summary – 25 Year Storm Event

Background Image: Nodal Diagram



Node: Outfall

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

25 YR TW, SEE SWM REPORT FOR DETAILS

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	20.11
0	0	0	360.0000	19.00

Comment:

Node: Site Basin East

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
20.00	0.0000	0
22.00	0.0000	0
22.99	0.0010	44
23.00	6.4100	279220
24.50	12.0700	525769
26.00	12.8100	558004

Comment:

Node: Soil Column

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	19.00
0	0	0	360.0000	19.00

Comment:

Node: Stormwater Tract East

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.99	0.0010	44

Stage [ft]	Area [ac]	Area [ft2]
20.00	3.0800	134165
22.00	3.4200	148975
23.00	3.8700	168577
24.50	4.1000	178596
26.00	4.3200	188179

Comment:

Manual Basin: Site Basin East

Scenario: Scenario1
Node: Site Basin East
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 18.3000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 14.9500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
14.9500	Site Basin East	Site Basin East	

Comment:

Manual Basin: Stormwater Tract East

Scenario: Scenario1
Node: Stormwater Tract East
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.3200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
4.3200	Stormwater Tract East	Stormwater Tract East	

Comment:

Drop Structure Link: CS-EB

Scenario: Scenario1
From Node: Stormwater Tract East
To Node: Outfall
Link Count: 1
Pipe Flow Direction: Both
Solution: Combine

Upstream Pipe

Invert: 15.00 ft
Manning's N: 0.0120

Geometry: Circular

Max Depth: 1.50 ft

Bottom Clip

Default: 0.00 ft

Downstream Pipe

Invert: 15.00 ft
Manning's N: 0.0120

Geometry: Circular

Max Depth: 1.50 ft

Bottom Clip

Default: 0.00 ft

Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	68.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir:	1	**Bottom Clip**	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	**Top Clip**	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	20.28 ft	Op Table:	
Control Elevation:	19.00 ft	Ref Node:	
Max Depth:	0.25 ft	**Discharge Coefficients**	
Max Width:	0.25 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment: Retention required to elevation 20.28 FT-NAVD

Weir Component

Weir:	2	**Bottom Clip**	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	**Top Clip**	
Geometry Type:	Circular	Default:	0.00 ft
Invert:	20.59 ft	Op Table:	
Control Elevation:	19.00 ft	Ref Node:	
Max Depth:	0.25 ft	**Discharge Coefficients**	
		Weir Default:	3.200
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Percolation Link: PERC

Scenario:	Scenario1	Surface Area Option:	Use 1st Point in Stage/Area Table
From Node:	Stormwater Tract East	Vertical Flow Termination:	Horizontal Flow Algorithm
To Node:	Soil Column	Perimeter 1:	2572.00 ft
Link Count:	1	Perimeter 2:	2886.00 ft
Flow Direction:	Both	Perimeter 3:	5398.00 ft
Aquifer Base Elevation:	16.83 ft	Distance P1 to P2:	50.00 ft
Water Table Elevation:	19.00 ft	Distance P2 to P3:	450.00 ft

Annual Recharge Rate:	0 ipy		
Horizontal Conductivity:	21.840 fpd	# of Cells P1 to P2:	5
Vertical Conductivity:	14.560 fpd	# of Cells P2 to P3:	10
Fillable Porosity:	0.200		
Layer Thickness:	1.00 ft		

Comment:

Pipe Link: Pipe		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.10 ft	Invert:	15.10 ft
From Node:	Site Basin East	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	Stormwater Tract East	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	1007.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Curve Number: 1 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
Site Basin East	Site Basin East	60.0
Stormwater Tract East	Stormwater Tract East	60.0

Impervious: 1 [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia/S [dec]	Ia Impervious [in]	Ia Pervious [in]
Site Basin East	100.00	100.00	0.00	0.00	0.000	0.000
Stormwater Tract East	0.00	0.00	0.00	0.00	0.000	0.000

Simulation: SFWMD 100YR-3 DAY

Scenario:	Scenario1
Run Date/Time:	N/A
Program Version:	N/A

General

Run Mode:	Normal			
	Year	Month	Day	Hour [hr]

Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 14.10 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 10YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 11:40:16 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD
Rainfall Amount: 6.89 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 25YR-3 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 1:30:14 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000
0	0	0	72.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 10.70 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 5 YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 11:41:32 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD

Rainfall Amount:	5.79 in
Storm Duration:	24.0000 hr
Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (1D):	100 ft2
Energy Switch (1D):	Energy

Comment:

25 year, 3 Day Node Max

Sim	Node Name	Relative Time [hrs]	Maximum Stage [ft]	Time to Maximum Stage [hrs]
SFWMD 25YR-3 DAY	Site Basin East	359.2561	23.25	61.0408
SFWMD 25YR-3 DAY	Stormwater Tract East	359.2561	23.20	72.2236

25 year, 3 Day Link Max

Sim	Link Name	From Node Name	To Node Name	Relative Time [hrs]	Maximum Flow Rate [cfs]	Time to Maximum Flow Rate [hr
SFWMD 25YR-3 DAY	CS-EB	~~D~CS-EB~N	Outfall	359.2561	0.88	72.2653

25 year, 3 Day Node Time Series

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	0.0000	19.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	0.7503	19.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	1.5003	20.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	2.2505	20.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	3.0001	20.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	3.7502	20.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	4.5004	20.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	5.2506	20.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	6.0001	20.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	6.7503	20.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	7.5002	20.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	8.2505	20.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	9.0005	20.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	9.7505	20.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	10.5001	20.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	11.2502	20.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	12.0001	20.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	12.7504	20.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	13.5000	20.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	14.2502	20.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	15.0003	20.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	15.7507	20.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	16.5004	20.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	17.2500	20.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	18.0001	20.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	18.7504	20.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	19.5006	20.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	20.2506	20.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	21.0004	20.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	21.7502	20.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	22.5001	20.32
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	23.2503	20.34
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	24.0009	20.35
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	24.7502	20.36
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	25.5004	20.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	26.2501	20.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	27.0001	20.42
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	27.7501	20.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	28.5004	20.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	29.2502	20.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	30.0003	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	30.7504	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	31.5002	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	32.2502	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	33.0003	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	33.7500	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	34.5003	20.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	35.2502	20.60

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	36.0003	20.62
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	36.7500	20.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	37.5005	20.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	38.2502	20.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	39.0001	20.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	39.7502	20.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	40.5006	20.71
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	41.2505	20.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	42.0004	20.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	42.7504	20.76
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	43.5001	20.77
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	44.2503	20.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	45.0000	20.80
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	45.7504	20.82
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	46.5003	20.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	47.2509	20.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	48.0007	20.86
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	48.7501	20.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	49.5001	20.89
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	50.2504	20.91
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	51.0001	20.93
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	51.7500	20.95
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	52.5007	20.97
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	53.2502	21.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	54.0007	21.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	54.7502	21.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	55.5004	21.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	56.2506	21.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	57.0006	21.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	57.7523	21.36
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	58.5015	21.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	59.2503	21.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	60.0004	21.98
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	60.7502	22.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	61.5016	22.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	62.2513	22.94
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	63.0002	23.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	63.7570	23.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	64.5070	23.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	65.2570	23.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	66.0070	23.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	66.7570	23.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	67.5070	23.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	68.2570	23.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	69.0070	23.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	69.7570	23.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	70.5070	23.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	71.2570	23.20

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	72.0070	23.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	72.7570	23.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	73.5070	23.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	74.2570	23.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	75.0070	23.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	75.7570	23.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	76.5070	23.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	77.2570	23.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	78.0070	23.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	78.7570	23.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	79.5070	23.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	80.2570	23.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	81.0070	23.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	81.7570	23.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	82.5070	23.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	83.2570	23.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	84.0070	23.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	84.7570	23.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	85.5070	23.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	86.2570	23.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	87.0070	23.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	87.7570	23.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	88.5070	23.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	89.2570	23.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	90.0070	23.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	90.7570	23.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	91.5070	23.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	92.2570	23.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	93.0070	23.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	93.7570	23.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	94.5070	23.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	95.2570	23.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	96.0070	23.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	96.7513	22.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	97.5061	22.97
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	98.2561	22.95
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	99.0061	22.94
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	99.7561	22.92
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	100.5061	22.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	101.2561	22.89
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	102.0061	22.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	102.7561	22.86
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	103.5061	22.84
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	104.2561	22.82
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	105.0061	22.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	105.7561	22.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	106.5061	22.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	107.2561	22.76

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	108.0061	22.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	108.7561	22.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	109.5061	22.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	110.2561	22.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	111.0061	22.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	111.7561	22.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	112.5061	22.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	113.2561	22.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	114.0061	22.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	114.7561	22.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	115.5061	22.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	116.2561	22.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	117.0061	22.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	117.7561	22.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	118.5061	22.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	119.2561	22.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	120.0061	22.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	120.7561	22.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	121.5061	22.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	122.2561	22.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	123.0061	22.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	123.7561	22.44
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	124.5061	22.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	125.2561	22.41
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	126.0061	22.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	126.7561	22.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	127.5061	22.37
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	128.2561	22.36
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	129.0061	22.34
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	129.7561	22.33
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	130.5061	22.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	131.2561	22.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	132.0061	22.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	132.7561	22.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	133.5061	22.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	134.2561	22.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	135.0061	22.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	135.7561	22.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	136.5061	22.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	137.2561	22.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	138.0061	22.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	138.7561	22.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	139.5061	22.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	140.2561	22.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	141.0061	22.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	141.7561	22.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	142.5061	22.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	143.2561	22.09

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	144.0061	22.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	144.7561	22.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	145.5061	22.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	146.2561	22.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	147.0061	22.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	147.7561	22.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	148.5061	22.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	149.2561	21.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	150.0061	21.98
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	150.7561	21.96
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	151.5061	21.95
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	152.2561	21.94
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	153.0061	21.93
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	153.7561	21.92
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	154.5061	21.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	155.2561	21.89
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	156.0061	21.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	156.7561	21.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	157.5061	21.86
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	158.2561	21.84
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	159.0061	21.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	159.7561	21.82
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	160.5061	21.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	161.2561	21.80
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	162.0061	21.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	162.7561	21.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	163.5061	21.76
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	164.2561	21.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	165.0061	21.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	165.7561	21.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	166.5061	21.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	167.2561	21.71
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	168.0061	21.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	168.7561	21.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	169.5061	21.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	170.2561	21.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	171.0061	21.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	171.7561	21.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	172.5061	21.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	173.2561	21.62
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	174.0061	21.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	174.7561	21.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	175.5061	21.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	176.2561	21.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	177.0061	21.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	177.7561	21.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	178.5061	21.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	179.2561	21.54

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	180.0061	21.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	180.7561	21.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	181.5061	21.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	182.2561	21.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	183.0061	21.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	183.7561	21.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	184.5061	21.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	185.2561	21.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	186.0061	21.45
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	186.7561	21.44
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	187.5061	21.43
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	188.2561	21.42
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	189.0061	21.41
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	189.7561	21.40
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	190.5061	21.39
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	191.2561	21.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	192.0061	21.38
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	192.7561	21.37
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	193.5061	21.36
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	194.2561	21.35
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	195.0061	21.34
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	195.7561	21.33
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	196.5061	21.32
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	197.2561	21.31
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	198.0061	21.30
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	198.7561	21.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	199.5061	21.29
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	200.2561	21.28
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	201.0061	21.27
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	201.7561	21.26
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	202.5061	21.25
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	203.2561	21.24
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	204.0061	21.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	204.7561	21.23
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	205.5061	21.22
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	206.2561	21.21
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	207.0061	21.20
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	207.7561	21.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	208.5061	21.19
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	209.2561	21.18
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	210.0061	21.17
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	210.7561	21.16
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	211.5061	21.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	212.2561	21.15
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	213.0061	21.14
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	213.7561	21.13
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	214.5061	21.12
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	215.2561	21.12

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	216.0061	21.11
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	216.7561	21.10
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	217.5061	21.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	218.2561	21.09
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	219.0061	21.08
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	219.7561	21.07
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	220.5061	21.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	221.2561	21.06
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	222.0061	21.05
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	222.7561	21.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	223.5061	21.04
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	224.2561	21.03
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	225.0061	21.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	225.7561	21.02
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	226.5061	21.01
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	227.2561	21.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	228.0061	21.00
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	228.7561	20.99
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	229.5061	20.98
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	230.2561	20.98
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	231.0061	20.97
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	231.7561	20.96
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	232.5061	20.96
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	233.2561	20.95
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	234.0061	20.94
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	234.7561	20.94
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	235.5061	20.93
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	236.2561	20.93
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	237.0061	20.92
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	237.7561	20.91
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	238.5061	20.91
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	239.2561	20.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	240.0061	20.90
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	240.7561	20.89
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	241.5061	20.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	242.2561	20.88
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	243.0061	20.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	243.7561	20.87
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	244.5061	20.86
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	245.2561	20.86
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	246.0061	20.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	246.7561	20.85
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	247.5061	20.84
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	248.2561	20.84
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	249.0061	20.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	249.7561	20.83
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	250.5061	20.82
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	251.2561	20.82

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	252.0061	20.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	252.7561	20.81
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	253.5061	20.80
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	254.2561	20.80
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	255.0061	20.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	255.7561	20.79
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	256.5061	20.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	257.2561	20.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	258.0061	20.78
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	258.7561	20.77
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	259.5061	20.77
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	260.2561	20.76
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	261.0061	20.76
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	261.7561	20.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	262.5061	20.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	263.2561	20.75
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	264.0061	20.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	264.7561	20.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	265.5061	20.74
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	266.2561	20.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	267.0061	20.73
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	267.7561	20.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	268.5061	20.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	269.2561	20.72
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	270.0061	20.71
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	270.7561	20.71
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	271.5061	20.71
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	272.2561	20.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	273.0061	20.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	273.7561	20.70
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	274.5061	20.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	275.2561	20.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	276.0061	20.69
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	276.7561	20.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	277.5061	20.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	278.2561	20.68
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	279.0061	20.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	279.7561	20.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	280.5061	20.67
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	281.2561	20.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	282.0061	20.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	282.7561	20.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	283.5061	20.66
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	284.2561	20.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	285.0061	20.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	285.7561	20.65
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	286.5061	20.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	287.2561	20.64

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	288.0061	20.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	288.7561	20.64
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	289.5061	20.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	290.2561	20.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	291.0061	20.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	291.7561	20.63
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	292.5061	20.62
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	293.2561	20.62
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	294.0061	20.62
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	294.7561	20.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	295.5061	20.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	296.2561	20.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	297.0061	20.61
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	297.7561	20.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	298.5061	20.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	299.2561	20.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	300.0061	20.60
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	300.7561	20.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	301.5061	20.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	302.2561	20.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	303.0061	20.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	303.7561	20.59
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	304.5061	20.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	305.2561	20.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	306.0061	20.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	306.7561	20.58
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	307.5061	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	308.2561	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	309.0061	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	309.7561	20.57
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	310.5061	20.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	311.2561	20.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	312.0061	20.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	312.7561	20.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	313.5061	20.56
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	314.2561	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	315.0061	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	315.7561	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	316.5061	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	317.2561	20.55
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	318.0061	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	318.7561	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	319.5061	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	320.2561	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	321.0061	20.54
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	321.7561	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	322.5061	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	323.2561	20.53

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	324.0061	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	324.7561	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	325.5061	20.53
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	326.2561	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	327.0061	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	327.7561	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	328.5061	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	329.2561	20.52
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	330.0061	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	330.7561	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	331.5061	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	332.2561	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	333.0061	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	333.7561	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	334.5061	20.51
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	335.2561	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	336.0061	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	336.7561	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	337.5061	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	338.2561	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	339.0061	20.50
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	339.7561	20.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	340.5061	20.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	341.2561	20.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	342.0061	20.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	342.7561	20.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	343.5061	20.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	344.2561	20.49
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	345.0061	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	345.7561	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	346.5061	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	347.2561	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	348.0061	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	348.7561	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	349.5061	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	350.2561	20.48
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	351.0061	20.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	351.7561	20.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	352.5061	20.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	353.2561	20.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	354.0061	20.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	354.7561	20.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	355.5061	20.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	356.2561	20.47
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	357.0061	20.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	357.7561	20.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	358.5061	20.46
Scenario1	SFWMD 25YR-3 DAY	Stormwater Tract East	359.2561	20.46

25 year, 3 Day Back to Back Node Volume

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	0.0000	19.00	0.00
SFWMD 25YR-3 DAY	Stormwater Tract East	0.7503	19.99	0.01
SFWMD 25YR-3 DAY	Stormwater Tract East	1.5003	20.00	0.03
SFWMD 25YR-3 DAY	Stormwater Tract East	2.2505	20.01	0.05
SFWMD 25YR-3 DAY	Stormwater Tract East	3.0001	20.02	0.07
SFWMD 25YR-3 DAY	Stormwater Tract East	3.7502	20.03	0.08
SFWMD 25YR-3 DAY	Stormwater Tract East	4.5004	20.04	0.09
SFWMD 25YR-3 DAY	Stormwater Tract East	5.2506	20.05	0.10
SFWMD 25YR-3 DAY	Stormwater Tract East	6.0001	20.06	0.11
SFWMD 25YR-3 DAY	Stormwater Tract East	6.7503	20.08	0.12
SFWMD 25YR-3 DAY	Stormwater Tract East	7.5002	20.09	0.13
SFWMD 25YR-3 DAY	Stormwater Tract East	8.2505	20.10	0.14
SFWMD 25YR-3 DAY	Stormwater Tract East	9.0005	20.11	0.15
SFWMD 25YR-3 DAY	Stormwater Tract East	9.7505	20.12	0.16
SFWMD 25YR-3 DAY	Stormwater Tract East	10.5001	20.13	0.16
SFWMD 25YR-3 DAY	Stormwater Tract East	11.2502	20.15	0.17
SFWMD 25YR-3 DAY	Stormwater Tract East	12.0001	20.16	0.18
SFWMD 25YR-3 DAY	Stormwater Tract East	12.7504	20.17	0.19
SFWMD 25YR-3 DAY	Stormwater Tract East	13.5000	20.18	0.19
SFWMD 25YR-3 DAY	Stormwater Tract East	14.2502	20.19	0.20
SFWMD 25YR-3 DAY	Stormwater Tract East	15.0003	20.21	0.21
SFWMD 25YR-3 DAY	Stormwater Tract East	15.7507	20.22	0.22
SFWMD 25YR-3 DAY	Stormwater Tract East	16.5004	20.23	0.22
SFWMD 25YR-3 DAY	Stormwater Tract East	17.2500	20.24	0.23
SFWMD 25YR-3 DAY	Stormwater Tract East	18.0001	20.25	0.24
SFWMD 25YR-3 DAY	Stormwater Tract East	18.7504	20.27	0.25
SFWMD 25YR-3 DAY	Stormwater Tract East	19.5006	20.28	0.25
SFWMD 25YR-3 DAY	Stormwater Tract East	20.2506	20.29	0.26
SFWMD 25YR-3 DAY	Stormwater Tract East	21.0004	20.30	0.27
SFWMD 25YR-3 DAY	Stormwater Tract East	21.7502	20.31	0.27
SFWMD 25YR-3 DAY	Stormwater Tract East	22.5001	20.32	0.28
SFWMD 25YR-3 DAY	Stormwater Tract East	23.2503	20.34	0.29
SFWMD 25YR-3 DAY	Stormwater Tract East	24.0009	20.35	0.30
SFWMD 25YR-3 DAY	Stormwater Tract East	24.7502	20.36	0.31
SFWMD 25YR-3 DAY	Stormwater Tract East	25.5004	20.38	0.31
SFWMD 25YR-3 DAY	Stormwater Tract East	26.2501	20.40	0.32
SFWMD 25YR-3 DAY	Stormwater Tract East	27.0001	20.42	0.33
SFWMD 25YR-3 DAY	Stormwater Tract East	27.7501	20.43	0.34
SFWMD 25YR-3 DAY	Stormwater Tract East	28.5004	20.45	0.35
SFWMD 25YR-3 DAY	Stormwater Tract East	29.2502	20.47	0.37
SFWMD 25YR-3 DAY	Stormwater Tract East	30.0003	20.48	0.38
SFWMD 25YR-3 DAY	Stormwater Tract East	30.7504	20.50	0.39
SFWMD 25YR-3 DAY	Stormwater Tract East	31.5002	20.52	0.40
SFWMD 25YR-3 DAY	Stormwater Tract East	32.2502	20.53	0.42
SFWMD 25YR-3 DAY	Stormwater Tract East	33.0003	20.55	0.43
SFWMD 25YR-3 DAY	Stormwater Tract East	33.7500	20.57	0.45
SFWMD 25YR-3 DAY	Stormwater Tract East	34.5003	20.58	0.46
SFWMD 25YR-3 DAY	Stormwater Tract East	35.2502	20.60	0.48

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	36.0003	20.62	0.50
SFWMD 25YR-3 DAY	Stormwater Tract East	36.7500	20.63	0.51
SFWMD 25YR-3 DAY	Stormwater Tract East	37.5005	20.65	0.53
SFWMD 25YR-3 DAY	Stormwater Tract East	38.2502	20.66	0.55
SFWMD 25YR-3 DAY	Stormwater Tract East	39.0001	20.68	0.57
SFWMD 25YR-3 DAY	Stormwater Tract East	39.7502	20.70	0.59
SFWMD 25YR-3 DAY	Stormwater Tract East	40.5006	20.71	0.61
SFWMD 25YR-3 DAY	Stormwater Tract East	41.2505	20.73	0.63
SFWMD 25YR-3 DAY	Stormwater Tract East	42.0004	20.74	0.65
SFWMD 25YR-3 DAY	Stormwater Tract East	42.7504	20.76	0.67
SFWMD 25YR-3 DAY	Stormwater Tract East	43.5001	20.77	0.69
SFWMD 25YR-3 DAY	Stormwater Tract East	44.2503	20.79	0.71
SFWMD 25YR-3 DAY	Stormwater Tract East	45.0000	20.80	0.74
SFWMD 25YR-3 DAY	Stormwater Tract East	45.7504	20.82	0.76
SFWMD 25YR-3 DAY	Stormwater Tract East	46.5003	20.83	0.79
SFWMD 25YR-3 DAY	Stormwater Tract East	47.2509	20.85	0.81
SFWMD 25YR-3 DAY	Stormwater Tract East	48.0007	20.86	0.84
SFWMD 25YR-3 DAY	Stormwater Tract East	48.7501	20.87	0.87
SFWMD 25YR-3 DAY	Stormwater Tract East	49.5001	20.89	0.89
SFWMD 25YR-3 DAY	Stormwater Tract East	50.2504	20.91	0.92
SFWMD 25YR-3 DAY	Stormwater Tract East	51.0001	20.93	0.95
SFWMD 25YR-3 DAY	Stormwater Tract East	51.7500	20.95	0.98
SFWMD 25YR-3 DAY	Stormwater Tract East	52.5007	20.97	1.01
SFWMD 25YR-3 DAY	Stormwater Tract East	53.2502	21.01	1.04
SFWMD 25YR-3 DAY	Stormwater Tract East	54.0007	21.05	1.08
SFWMD 25YR-3 DAY	Stormwater Tract East	54.7502	21.09	1.11
SFWMD 25YR-3 DAY	Stormwater Tract East	55.5004	21.15	1.15
SFWMD 25YR-3 DAY	Stormwater Tract East	56.2506	21.21	1.19
SFWMD 25YR-3 DAY	Stormwater Tract East	57.0006	21.28	1.23
SFWMD 25YR-3 DAY	Stormwater Tract East	57.7523	21.36	1.27
SFWMD 25YR-3 DAY	Stormwater Tract East	58.5015	21.45	1.32
SFWMD 25YR-3 DAY	Stormwater Tract East	59.2503	21.58	1.37
SFWMD 25YR-3 DAY	Stormwater Tract East	60.0004	21.98	1.43
SFWMD 25YR-3 DAY	Stormwater Tract East	60.7502	22.45	1.52
SFWMD 25YR-3 DAY	Stormwater Tract East	61.5016	22.74	1.62
SFWMD 25YR-3 DAY	Stormwater Tract East	62.2513	22.94	1.72
SFWMD 25YR-3 DAY	Stormwater Tract East	63.0002	23.07	1.82
SFWMD 25YR-3 DAY	Stormwater Tract East	63.7570	23.13	1.92
SFWMD 25YR-3 DAY	Stormwater Tract East	64.5070	23.15	2.02
SFWMD 25YR-3 DAY	Stormwater Tract East	65.2570	23.16	2.11
SFWMD 25YR-3 DAY	Stormwater Tract East	66.0070	23.16	2.20
SFWMD 25YR-3 DAY	Stormwater Tract East	66.7570	23.17	2.28
SFWMD 25YR-3 DAY	Stormwater Tract East	67.5070	23.18	2.37
SFWMD 25YR-3 DAY	Stormwater Tract East	68.2570	23.19	2.45
SFWMD 25YR-3 DAY	Stormwater Tract East	69.0070	23.19	2.54
SFWMD 25YR-3 DAY	Stormwater Tract East	69.7570	23.19	2.62
SFWMD 25YR-3 DAY	Stormwater Tract East	70.5070	23.19	2.70
SFWMD 25YR-3 DAY	Stormwater Tract East	71.2570	23.20	2.78

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	72.0070	23.20	2.86
SFWMD 25YR-3 DAY	Stormwater Tract East	72.7570	23.20	2.94
SFWMD 25YR-3 DAY	Stormwater Tract East	73.5070	23.19	3.01
SFWMD 25YR-3 DAY	Stormwater Tract East	74.2570	23.19	3.09
SFWMD 25YR-3 DAY	Stormwater Tract East	75.0070	23.18	3.17
SFWMD 25YR-3 DAY	Stormwater Tract East	75.7570	23.17	3.24
SFWMD 25YR-3 DAY	Stormwater Tract East	76.5070	23.16	3.32
SFWMD 25YR-3 DAY	Stormwater Tract East	77.2570	23.16	3.39
SFWMD 25YR-3 DAY	Stormwater Tract East	78.0070	23.15	3.46
SFWMD 25YR-3 DAY	Stormwater Tract East	78.7570	23.14	3.54
SFWMD 25YR-3 DAY	Stormwater Tract East	79.5070	23.14	3.61
SFWMD 25YR-3 DAY	Stormwater Tract East	80.2570	23.13	3.68
SFWMD 25YR-3 DAY	Stormwater Tract East	81.0070	23.12	3.75
SFWMD 25YR-3 DAY	Stormwater Tract East	81.7570	23.12	3.82
SFWMD 25YR-3 DAY	Stormwater Tract East	82.5070	23.11	3.90
SFWMD 25YR-3 DAY	Stormwater Tract East	83.2570	23.10	3.97
SFWMD 25YR-3 DAY	Stormwater Tract East	84.0070	23.10	4.04
SFWMD 25YR-3 DAY	Stormwater Tract East	84.7570	23.09	4.10
SFWMD 25YR-3 DAY	Stormwater Tract East	85.5070	23.09	4.17
SFWMD 25YR-3 DAY	Stormwater Tract East	86.2570	23.08	4.24
SFWMD 25YR-3 DAY	Stormwater Tract East	87.0070	23.07	4.31
SFWMD 25YR-3 DAY	Stormwater Tract East	87.7570	23.07	4.38
SFWMD 25YR-3 DAY	Stormwater Tract East	88.5070	23.06	4.45
SFWMD 25YR-3 DAY	Stormwater Tract East	89.2570	23.05	4.51
SFWMD 25YR-3 DAY	Stormwater Tract East	90.0070	23.05	4.58
SFWMD 25YR-3 DAY	Stormwater Tract East	90.7570	23.04	4.65
SFWMD 25YR-3 DAY	Stormwater Tract East	91.5070	23.03	4.72
SFWMD 25YR-3 DAY	Stormwater Tract East	92.2570	23.03	4.78
SFWMD 25YR-3 DAY	Stormwater Tract East	93.0070	23.02	4.85
SFWMD 25YR-3 DAY	Stormwater Tract East	93.7570	23.01	4.91
SFWMD 25YR-3 DAY	Stormwater Tract East	94.5070	23.01	4.98
SFWMD 25YR-3 DAY	Stormwater Tract East	95.2570	23.00	5.04
SFWMD 25YR-3 DAY	Stormwater Tract East	96.0070	23.00	5.11
SFWMD 25YR-3 DAY	Stormwater Tract East	96.7513	22.99	5.17
SFWMD 25YR-3 DAY	Stormwater Tract East	97.5061	22.97	5.24
SFWMD 25YR-3 DAY	Stormwater Tract East	98.2561	22.95	5.30
SFWMD 25YR-3 DAY	Stormwater Tract East	99.0061	22.94	5.36
SFWMD 25YR-3 DAY	Stormwater Tract East	99.7561	22.92	5.43
SFWMD 25YR-3 DAY	Stormwater Tract East	100.5061	22.90	5.49
SFWMD 25YR-3 DAY	Stormwater Tract East	101.2561	22.89	5.55
SFWMD 25YR-3 DAY	Stormwater Tract East	102.0061	22.87	5.61
SFWMD 25YR-3 DAY	Stormwater Tract East	102.7561	22.86	5.67
SFWMD 25YR-3 DAY	Stormwater Tract East	103.5061	22.84	5.73
SFWMD 25YR-3 DAY	Stormwater Tract East	104.2561	22.82	5.79
SFWMD 25YR-3 DAY	Stormwater Tract East	105.0061	22.81	5.85
SFWMD 25YR-3 DAY	Stormwater Tract East	105.7561	22.79	5.91
SFWMD 25YR-3 DAY	Stormwater Tract East	106.5061	22.78	5.97
SFWMD 25YR-3 DAY	Stormwater Tract East	107.2561	22.76	6.02

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	108.0061	22.75	6.08
SFWMD 25YR-3 DAY	Stormwater Tract East	108.7561	22.73	6.14
SFWMD 25YR-3 DAY	Stormwater Tract East	109.5061	22.72	6.20
SFWMD 25YR-3 DAY	Stormwater Tract East	110.2561	22.70	6.25
SFWMD 25YR-3 DAY	Stormwater Tract East	111.0061	22.69	6.31
SFWMD 25YR-3 DAY	Stormwater Tract East	111.7561	22.67	6.37
SFWMD 25YR-3 DAY	Stormwater Tract East	112.5061	22.66	6.42
SFWMD 25YR-3 DAY	Stormwater Tract East	113.2561	22.64	6.48
SFWMD 25YR-3 DAY	Stormwater Tract East	114.0061	22.63	6.53
SFWMD 25YR-3 DAY	Stormwater Tract East	114.7561	22.61	6.59
SFWMD 25YR-3 DAY	Stormwater Tract East	115.5061	22.60	6.64
SFWMD 25YR-3 DAY	Stormwater Tract East	116.2561	22.58	6.69
SFWMD 25YR-3 DAY	Stormwater Tract East	117.0061	22.57	6.75
SFWMD 25YR-3 DAY	Stormwater Tract East	117.7561	22.55	6.80
SFWMD 25YR-3 DAY	Stormwater Tract East	118.5061	22.54	6.85
SFWMD 25YR-3 DAY	Stormwater Tract East	119.2561	22.52	6.91
SFWMD 25YR-3 DAY	Stormwater Tract East	120.0061	22.51	6.96
SFWMD 25YR-3 DAY	Stormwater Tract East	120.7561	22.50	7.01
SFWMD 25YR-3 DAY	Stormwater Tract East	121.5061	22.48	7.06
SFWMD 25YR-3 DAY	Stormwater Tract East	122.2561	22.47	7.12
SFWMD 25YR-3 DAY	Stormwater Tract East	123.0061	22.45	7.17
SFWMD 25YR-3 DAY	Stormwater Tract East	123.7561	22.44	7.22
SFWMD 25YR-3 DAY	Stormwater Tract East	124.5061	22.43	7.27
SFWMD 25YR-3 DAY	Stormwater Tract East	125.2561	22.41	7.32
SFWMD 25YR-3 DAY	Stormwater Tract East	126.0061	22.40	7.37
SFWMD 25YR-3 DAY	Stormwater Tract East	126.7561	22.38	7.42
SFWMD 25YR-3 DAY	Stormwater Tract East	127.5061	22.37	7.47
SFWMD 25YR-3 DAY	Stormwater Tract East	128.2561	22.36	7.52
SFWMD 25YR-3 DAY	Stormwater Tract East	129.0061	22.34	7.57
SFWMD 25YR-3 DAY	Stormwater Tract East	129.7561	22.33	7.62
SFWMD 25YR-3 DAY	Stormwater Tract East	130.5061	22.31	7.67
SFWMD 25YR-3 DAY	Stormwater Tract East	131.2561	22.30	7.71
SFWMD 25YR-3 DAY	Stormwater Tract East	132.0061	22.29	7.76
SFWMD 25YR-3 DAY	Stormwater Tract East	132.7561	22.27	7.81
SFWMD 25YR-3 DAY	Stormwater Tract East	133.5061	22.26	7.86
SFWMD 25YR-3 DAY	Stormwater Tract East	134.2561	22.25	7.91
SFWMD 25YR-3 DAY	Stormwater Tract East	135.0061	22.23	7.95
SFWMD 25YR-3 DAY	Stormwater Tract East	135.7561	22.22	8.00
SFWMD 25YR-3 DAY	Stormwater Tract East	136.5061	22.21	8.05
SFWMD 25YR-3 DAY	Stormwater Tract East	137.2561	22.19	8.09
SFWMD 25YR-3 DAY	Stormwater Tract East	138.0061	22.18	8.14
SFWMD 25YR-3 DAY	Stormwater Tract East	138.7561	22.17	8.18
SFWMD 25YR-3 DAY	Stormwater Tract East	139.5061	22.15	8.23
SFWMD 25YR-3 DAY	Stormwater Tract East	140.2561	22.14	8.28
SFWMD 25YR-3 DAY	Stormwater Tract East	141.0061	22.13	8.32
SFWMD 25YR-3 DAY	Stormwater Tract East	141.7561	22.12	8.37
SFWMD 25YR-3 DAY	Stormwater Tract East	142.5061	22.10	8.41
SFWMD 25YR-3 DAY	Stormwater Tract East	143.2561	22.09	8.46

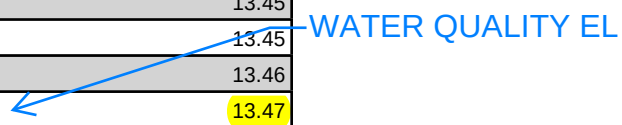
Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	144.0061	22.08	8.50
SFWMD 25YR-3 DAY	Stormwater Tract East	144.7561	22.06	8.54
SFWMD 25YR-3 DAY	Stormwater Tract East	145.5061	22.05	8.59
SFWMD 25YR-3 DAY	Stormwater Tract East	146.2561	22.04	8.63
SFWMD 25YR-3 DAY	Stormwater Tract East	147.0061	22.03	8.67
SFWMD 25YR-3 DAY	Stormwater Tract East	147.7561	22.01	8.72
SFWMD 25YR-3 DAY	Stormwater Tract East	148.5061	22.00	8.76
SFWMD 25YR-3 DAY	Stormwater Tract East	149.2561	21.99	8.80
SFWMD 25YR-3 DAY	Stormwater Tract East	150.0061	21.98	8.84
SFWMD 25YR-3 DAY	Stormwater Tract East	150.7561	21.96	8.89
SFWMD 25YR-3 DAY	Stormwater Tract East	151.5061	21.95	8.93
SFWMD 25YR-3 DAY	Stormwater Tract East	152.2561	21.94	8.97
SFWMD 25YR-3 DAY	Stormwater Tract East	153.0061	21.93	9.01
SFWMD 25YR-3 DAY	Stormwater Tract East	153.7561	21.92	9.05
SFWMD 25YR-3 DAY	Stormwater Tract East	154.5061	21.90	9.09
SFWMD 25YR-3 DAY	Stormwater Tract East	155.2561	21.89	9.13
SFWMD 25YR-3 DAY	Stormwater Tract East	156.0061	21.88	9.17
SFWMD 25YR-3 DAY	Stormwater Tract East	156.7561	21.87	9.21
SFWMD 25YR-3 DAY	Stormwater Tract East	157.5061	21.86	9.26
SFWMD 25YR-3 DAY	Stormwater Tract East	158.2561	21.84	9.29
SFWMD 25YR-3 DAY	Stormwater Tract East	159.0061	21.83	9.33
SFWMD 25YR-3 DAY	Stormwater Tract East	159.7561	21.82	9.37
SFWMD 25YR-3 DAY	Stormwater Tract East	160.5061	21.81	9.41
SFWMD 25YR-3 DAY	Stormwater Tract East	161.2561	21.80	9.45
SFWMD 25YR-3 DAY	Stormwater Tract East	162.0061	21.79	9.49
SFWMD 25YR-3 DAY	Stormwater Tract East	162.7561	21.78	9.53
SFWMD 25YR-3 DAY	Stormwater Tract East	163.5061	21.76	9.57
SFWMD 25YR-3 DAY	Stormwater Tract East	164.2561	21.75	9.61
SFWMD 25YR-3 DAY	Stormwater Tract East	165.0061	21.74	9.64
SFWMD 25YR-3 DAY	Stormwater Tract East	165.7561	21.73	9.68
SFWMD 25YR-3 DAY	Stormwater Tract East	166.5061	21.72	9.72
SFWMD 25YR-3 DAY	Stormwater Tract East	167.2561	21.71	9.76
SFWMD 25YR-3 DAY	Stormwater Tract East	168.0061	21.70	9.79
SFWMD 25YR-3 DAY	Stormwater Tract East	168.7561	21.69	9.83
SFWMD 25YR-3 DAY	Stormwater Tract East	169.5061	21.68	9.87
SFWMD 25YR-3 DAY	Stormwater Tract East	170.2561	21.66	9.90
SFWMD 25YR-3 DAY	Stormwater Tract East	171.0061	21.65	9.94
SFWMD 25YR-3 DAY	Stormwater Tract East	171.7561	21.64	9.98
SFWMD 25YR-3 DAY	Stormwater Tract East	172.5061	21.63	10.01
SFWMD 25YR-3 DAY	Stormwater Tract East	173.2561	21.62	10.05
SFWMD 25YR-3 DAY	Stormwater Tract East	174.0061	21.61	10.08
SFWMD 25YR-3 DAY	Stormwater Tract East	174.7561	21.60	10.12
SFWMD 25YR-3 DAY	Stormwater Tract East	175.5061	21.59	10.15
SFWMD 25YR-3 DAY	Stormwater Tract East	176.2561	21.58	10.19
SFWMD 25YR-3 DAY	Stormwater Tract East	177.0061	21.57	10.22
SFWMD 25YR-3 DAY	Stormwater Tract East	177.7561	21.56	10.26
SFWMD 25YR-3 DAY	Stormwater Tract East	178.5061	21.55	10.29
SFWMD 25YR-3 DAY	Stormwater Tract East	179.2561	21.54	10.32

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	180.0061	21.53	10.36
SFWMD 25YR-3 DAY	Stormwater Tract East	180.7561	21.52	10.39
SFWMD 25YR-3 DAY	Stormwater Tract East	181.5061	21.51	10.42
SFWMD 25YR-3 DAY	Stormwater Tract East	182.2561	21.50	10.46
SFWMD 25YR-3 DAY	Stormwater Tract East	183.0061	21.49	10.49
SFWMD 25YR-3 DAY	Stormwater Tract East	183.7561	21.48	10.52
SFWMD 25YR-3 DAY	Stormwater Tract East	184.5061	21.47	10.56
SFWMD 25YR-3 DAY	Stormwater Tract East	185.2561	21.46	10.59
SFWMD 25YR-3 DAY	Stormwater Tract East	186.0061	21.45	10.62
SFWMD 25YR-3 DAY	Stormwater Tract East	186.7561	21.44	10.65
SFWMD 25YR-3 DAY	Stormwater Tract East	187.5061	21.43	10.68
SFWMD 25YR-3 DAY	Stormwater Tract East	188.2561	21.42	10.72
SFWMD 25YR-3 DAY	Stormwater Tract East	189.0061	21.41	10.75
SFWMD 25YR-3 DAY	Stormwater Tract East	189.7561	21.40	10.78
SFWMD 25YR-3 DAY	Stormwater Tract East	190.5061	21.39	10.81
SFWMD 25YR-3 DAY	Stormwater Tract East	191.2561	21.38	10.84
SFWMD 25YR-3 DAY	Stormwater Tract East	192.0061	21.38	10.87
SFWMD 25YR-3 DAY	Stormwater Tract East	192.7561	21.37	10.90
SFWMD 25YR-3 DAY	Stormwater Tract East	193.5061	21.36	10.93
SFWMD 25YR-3 DAY	Stormwater Tract East	194.2561	21.35	10.96
SFWMD 25YR-3 DAY	Stormwater Tract East	195.0061	21.34	10.99
SFWMD 25YR-3 DAY	Stormwater Tract East	195.7561	21.33	11.02
SFWMD 25YR-3 DAY	Stormwater Tract East	196.5061	21.32	11.05
SFWMD 25YR-3 DAY	Stormwater Tract East	197.2561	21.31	11.08
SFWMD 25YR-3 DAY	Stormwater Tract East	198.0061	21.30	11.11
SFWMD 25YR-3 DAY	Stormwater Tract East	198.7561	21.29	11.14
SFWMD 25YR-3 DAY	Stormwater Tract East	199.5061	21.29	11.17
SFWMD 25YR-3 DAY	Stormwater Tract East	200.2561	21.28	11.20
SFWMD 25YR-3 DAY	Stormwater Tract East	201.0061	21.27	11.22
SFWMD 25YR-3 DAY	Stormwater Tract East	201.7561	21.26	11.25
SFWMD 25YR-3 DAY	Stormwater Tract East	202.5061	21.25	11.28
SFWMD 25YR-3 DAY	Stormwater Tract East	203.2561	21.24	11.31
SFWMD 25YR-3 DAY	Stormwater Tract East	204.0061	21.23	11.34
SFWMD 25YR-3 DAY	Stormwater Tract East	204.7561	21.23	11.36
SFWMD 25YR-3 DAY	Stormwater Tract East	205.5061	21.22	11.39
SFWMD 25YR-3 DAY	Stormwater Tract East	206.2561	21.21	11.42
SFWMD 25YR-3 DAY	Stormwater Tract East	207.0061	21.20	11.44
SFWMD 25YR-3 DAY	Stormwater Tract East	207.7561	21.19	11.47
SFWMD 25YR-3 DAY	Stormwater Tract East	208.5061	21.19	11.50
SFWMD 25YR-3 DAY	Stormwater Tract East	209.2561	21.18	11.52
SFWMD 25YR-3 DAY	Stormwater Tract East	210.0061	21.17	11.55
SFWMD 25YR-3 DAY	Stormwater Tract East	210.7561	21.16	11.58
SFWMD 25YR-3 DAY	Stormwater Tract East	211.5061	21.15	11.60
SFWMD 25YR-3 DAY	Stormwater Tract East	212.2561	21.15	11.63
SFWMD 25YR-3 DAY	Stormwater Tract East	213.0061	21.14	11.65
SFWMD 25YR-3 DAY	Stormwater Tract East	213.7561	21.13	11.68
SFWMD 25YR-3 DAY	Stormwater Tract East	214.5061	21.12	11.70
SFWMD 25YR-3 DAY	Stormwater Tract East	215.2561	21.12	11.73

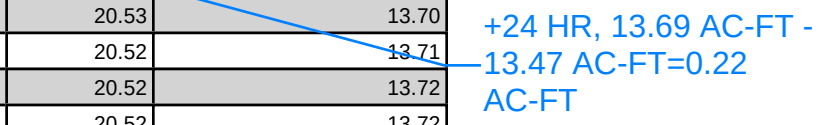
Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	216.0061	21.11	11.75
SFWMD 25YR-3 DAY	Stormwater Tract East	216.7561	21.10	11.78
SFWMD 25YR-3 DAY	Stormwater Tract East	217.5061	21.09	11.80
SFWMD 25YR-3 DAY	Stormwater Tract East	218.2561	21.09	11.83
SFWMD 25YR-3 DAY	Stormwater Tract East	219.0061	21.08	11.85
SFWMD 25YR-3 DAY	Stormwater Tract East	219.7561	21.07	11.88
SFWMD 25YR-3 DAY	Stormwater Tract East	220.5061	21.06	11.90
SFWMD 25YR-3 DAY	Stormwater Tract East	221.2561	21.06	11.92
SFWMD 25YR-3 DAY	Stormwater Tract East	222.0061	21.05	11.95
SFWMD 25YR-3 DAY	Stormwater Tract East	222.7561	21.04	11.97
SFWMD 25YR-3 DAY	Stormwater Tract East	223.5061	21.04	11.99
SFWMD 25YR-3 DAY	Stormwater Tract East	224.2561	21.03	12.02
SFWMD 25YR-3 DAY	Stormwater Tract East	225.0061	21.02	12.04
SFWMD 25YR-3 DAY	Stormwater Tract East	225.7561	21.02	12.06
SFWMD 25YR-3 DAY	Stormwater Tract East	226.5061	21.01	12.08
SFWMD 25YR-3 DAY	Stormwater Tract East	227.2561	21.00	12.11
SFWMD 25YR-3 DAY	Stormwater Tract East	228.0061	21.00	12.13
SFWMD 25YR-3 DAY	Stormwater Tract East	228.7561	20.99	12.15
SFWMD 25YR-3 DAY	Stormwater Tract East	229.5061	20.98	12.17
SFWMD 25YR-3 DAY	Stormwater Tract East	230.2561	20.98	12.19
SFWMD 25YR-3 DAY	Stormwater Tract East	231.0061	20.97	12.22
SFWMD 25YR-3 DAY	Stormwater Tract East	231.7561	20.96	12.24
SFWMD 25YR-3 DAY	Stormwater Tract East	232.5061	20.96	12.26
SFWMD 25YR-3 DAY	Stormwater Tract East	233.2561	20.95	12.28
SFWMD 25YR-3 DAY	Stormwater Tract East	234.0061	20.94	12.30
SFWMD 25YR-3 DAY	Stormwater Tract East	234.7561	20.94	12.32
SFWMD 25YR-3 DAY	Stormwater Tract East	235.5061	20.93	12.34
SFWMD 25YR-3 DAY	Stormwater Tract East	236.2561	20.93	12.36
SFWMD 25YR-3 DAY	Stormwater Tract East	237.0061	20.92	12.38
SFWMD 25YR-3 DAY	Stormwater Tract East	237.7561	20.91	12.40
SFWMD 25YR-3 DAY	Stormwater Tract East	238.5061	20.91	12.42
SFWMD 25YR-3 DAY	Stormwater Tract East	239.2561	20.90	12.44
SFWMD 25YR-3 DAY	Stormwater Tract East	240.0061	20.90	12.46
SFWMD 25YR-3 DAY	Stormwater Tract East	240.7561	20.89	12.48
SFWMD 25YR-3 DAY	Stormwater Tract East	241.5061	20.88	12.50
SFWMD 25YR-3 DAY	Stormwater Tract East	242.2561	20.88	12.52
SFWMD 25YR-3 DAY	Stormwater Tract East	243.0061	20.87	12.54
SFWMD 25YR-3 DAY	Stormwater Tract East	243.7561	20.87	12.55
SFWMD 25YR-3 DAY	Stormwater Tract East	244.5061	20.86	12.57
SFWMD 25YR-3 DAY	Stormwater Tract East	245.2561	20.86	12.59
SFWMD 25YR-3 DAY	Stormwater Tract East	246.0061	20.85	12.61
SFWMD 25YR-3 DAY	Stormwater Tract East	246.7561	20.85	12.62
SFWMD 25YR-3 DAY	Stormwater Tract East	247.5061	20.84	12.64
SFWMD 25YR-3 DAY	Stormwater Tract East	248.2561	20.84	12.66
SFWMD 25YR-3 DAY	Stormwater Tract East	249.0061	20.83	12.68
SFWMD 25YR-3 DAY	Stormwater Tract East	249.7561	20.83	12.69
SFWMD 25YR-3 DAY	Stormwater Tract East	250.5061	20.82	12.71
SFWMD 25YR-3 DAY	Stormwater Tract East	251.2561	20.82	12.73

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	252.0061	20.81	12.74
SFWMD 25YR-3 DAY	Stormwater Tract East	252.7561	20.81	12.76
SFWMD 25YR-3 DAY	Stormwater Tract East	253.5061	20.80	12.77
SFWMD 25YR-3 DAY	Stormwater Tract East	254.2561	20.80	12.79
SFWMD 25YR-3 DAY	Stormwater Tract East	255.0061	20.79	12.80
SFWMD 25YR-3 DAY	Stormwater Tract East	255.7561	20.79	12.82
SFWMD 25YR-3 DAY	Stormwater Tract East	256.5061	20.78	12.83
SFWMD 25YR-3 DAY	Stormwater Tract East	257.2561	20.78	12.85
SFWMD 25YR-3 DAY	Stormwater Tract East	258.0061	20.78	12.86
SFWMD 25YR-3 DAY	Stormwater Tract East	258.7561	20.77	12.88
SFWMD 25YR-3 DAY	Stormwater Tract East	259.5061	20.77	12.89
SFWMD 25YR-3 DAY	Stormwater Tract East	260.2561	20.76	12.91
SFWMD 25YR-3 DAY	Stormwater Tract East	261.0061	20.76	12.92
SFWMD 25YR-3 DAY	Stormwater Tract East	261.7561	20.75	12.93
SFWMD 25YR-3 DAY	Stormwater Tract East	262.5061	20.75	12.95
SFWMD 25YR-3 DAY	Stormwater Tract East	263.2561	20.75	12.96
SFWMD 25YR-3 DAY	Stormwater Tract East	264.0061	20.74	12.97
SFWMD 25YR-3 DAY	Stormwater Tract East	264.7561	20.74	12.99
SFWMD 25YR-3 DAY	Stormwater Tract East	265.5061	20.74	13.00
SFWMD 25YR-3 DAY	Stormwater Tract East	266.2561	20.73	13.01
SFWMD 25YR-3 DAY	Stormwater Tract East	267.0061	20.73	13.02
SFWMD 25YR-3 DAY	Stormwater Tract East	267.7561	20.72	13.04
SFWMD 25YR-3 DAY	Stormwater Tract East	268.5061	20.72	13.05
SFWMD 25YR-3 DAY	Stormwater Tract East	269.2561	20.72	13.06
SFWMD 25YR-3 DAY	Stormwater Tract East	270.0061	20.71	13.07
SFWMD 25YR-3 DAY	Stormwater Tract East	270.7561	20.71	13.08
SFWMD 25YR-3 DAY	Stormwater Tract East	271.5061	20.71	13.10
SFWMD 25YR-3 DAY	Stormwater Tract East	272.2561	20.70	13.11
SFWMD 25YR-3 DAY	Stormwater Tract East	273.0061	20.70	13.12
SFWMD 25YR-3 DAY	Stormwater Tract East	273.7561	20.70	13.13
SFWMD 25YR-3 DAY	Stormwater Tract East	274.5061	20.69	13.14
SFWMD 25YR-3 DAY	Stormwater Tract East	275.2561	20.69	13.15
SFWMD 25YR-3 DAY	Stormwater Tract East	276.0061	20.69	13.16
SFWMD 25YR-3 DAY	Stormwater Tract East	276.7561	20.68	13.17
SFWMD 25YR-3 DAY	Stormwater Tract East	277.5061	20.68	13.19
SFWMD 25YR-3 DAY	Stormwater Tract East	278.2561	20.68	13.20
SFWMD 25YR-3 DAY	Stormwater Tract East	279.0061	20.67	13.21
SFWMD 25YR-3 DAY	Stormwater Tract East	279.7561	20.67	13.22
SFWMD 25YR-3 DAY	Stormwater Tract East	280.5061	20.67	13.23
SFWMD 25YR-3 DAY	Stormwater Tract East	281.2561	20.66	13.24
SFWMD 25YR-3 DAY	Stormwater Tract East	282.0061	20.66	13.25
SFWMD 25YR-3 DAY	Stormwater Tract East	282.7561	20.66	13.26
SFWMD 25YR-3 DAY	Stormwater Tract East	283.5061	20.66	13.27
SFWMD 25YR-3 DAY	Stormwater Tract East	284.2561	20.65	13.28
SFWMD 25YR-3 DAY	Stormwater Tract East	285.0061	20.65	13.29
SFWMD 25YR-3 DAY	Stormwater Tract East	285.7561	20.65	13.30
SFWMD 25YR-3 DAY	Stormwater Tract East	286.5061	20.64	13.31
SFWMD 25YR-3 DAY	Stormwater Tract East	287.2561	20.64	13.31

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	288.0061	20.64	13.32
SFWMD 25YR-3 DAY	Stormwater Tract East	288.7561	20.64	13.33
SFWMD 25YR-3 DAY	Stormwater Tract East	289.5061	20.63	13.34
SFWMD 25YR-3 DAY	Stormwater Tract East	290.2561	20.63	13.35
SFWMD 25YR-3 DAY	Stormwater Tract East	291.0061	20.63	13.36
SFWMD 25YR-3 DAY	Stormwater Tract East	291.7561	20.63	13.37
SFWMD 25YR-3 DAY	Stormwater Tract East	292.5061	20.62	13.38
SFWMD 25YR-3 DAY	Stormwater Tract East	293.2561	20.62	13.39
SFWMD 25YR-3 DAY	Stormwater Tract East	294.0061	20.62	13.40
SFWMD 25YR-3 DAY	Stormwater Tract East	294.7561	20.61	13.40
SFWMD 25YR-3 DAY	Stormwater Tract East	295.5061	20.61	13.41
SFWMD 25YR-3 DAY	Stormwater Tract East	296.2561	20.61	13.42
SFWMD 25YR-3 DAY	Stormwater Tract East	297.0061	20.61	13.43
SFWMD 25YR-3 DAY	Stormwater Tract East	297.7561	20.60	13.44
SFWMD 25YR-3 DAY	Stormwater Tract East	298.5061	20.60	13.45
SFWMD 25YR-3 DAY	Stormwater Tract East	299.2561	20.60	13.45
SFWMD 25YR-3 DAY	Stormwater Tract East	300.0061	20.60	13.46
SFWMD 25YR-3 DAY	Stormwater Tract East	300.7561	20.59	13.47
SFWMD 25YR-3 DAY	Stormwater Tract East	301.5061	20.59	13.48
SFWMD 25YR-3 DAY	Stormwater Tract East	302.2561	20.59	13.49
SFWMD 25YR-3 DAY	Stormwater Tract East	303.0061	20.59	13.50
SFWMD 25YR-3 DAY	Stormwater Tract East	303.7561	20.59	13.50
SFWMD 25YR-3 DAY	Stormwater Tract East	304.5061	20.58	13.51
SFWMD 25YR-3 DAY	Stormwater Tract East	305.2561	20.58	13.52
SFWMD 25YR-3 DAY	Stormwater Tract East	306.0061	20.58	13.53
SFWMD 25YR-3 DAY	Stormwater Tract East	306.7561	20.58	13.53
SFWMD 25YR-3 DAY	Stormwater Tract East	307.5061	20.57	13.54
SFWMD 25YR-3 DAY	Stormwater Tract East	308.2561	20.57	13.55
SFWMD 25YR-3 DAY	Stormwater Tract East	309.0061	20.57	13.56
SFWMD 25YR-3 DAY	Stormwater Tract East	309.7561	20.57	13.56
SFWMD 25YR-3 DAY	Stormwater Tract East	310.5061	20.56	13.57
SFWMD 25YR-3 DAY	Stormwater Tract East	311.2561	20.56	13.58
SFWMD 25YR-3 DAY	Stormwater Tract East	312.0061	20.56	13.59
SFWMD 25YR-3 DAY	Stormwater Tract East	312.7561	20.56	13.59
SFWMD 25YR-3 DAY	Stormwater Tract East	313.5061	20.56	13.60
SFWMD 25YR-3 DAY	Stormwater Tract East	314.2561	20.55	13.61
SFWMD 25YR-3 DAY	Stormwater Tract East	315.0061	20.55	13.61
SFWMD 25YR-3 DAY	Stormwater Tract East	315.7561	20.55	13.62
SFWMD 25YR-3 DAY	Stormwater Tract East	316.5061	20.55	13.63
SFWMD 25YR-3 DAY	Stormwater Tract East	317.2561	20.55	13.63
SFWMD 25YR-3 DAY	Stormwater Tract East	318.0061	20.54	13.64
SFWMD 25YR-3 DAY	Stormwater Tract East	318.7561	20.54	13.65
SFWMD 25YR-3 DAY	Stormwater Tract East	319.5061	20.54	13.65
SFWMD 25YR-3 DAY	Stormwater Tract East	320.2561	20.54	13.66
SFWMD 25YR-3 DAY	Stormwater Tract East	321.0061	20.54	13.67
SFWMD 25YR-3 DAY	Stormwater Tract East	321.7561	20.53	13.67
SFWMD 25YR-3 DAY	Stormwater Tract East	322.5061	20.53	13.68
SFWMD 25YR-3 DAY	Stormwater Tract East	323.2561	20.53	13.69



Sim	Node Name	Relative Time [hrs]	Stage [ft]	Link Outflow Volume [ac_ft]
SFWMD 25YR-3 DAY	Stormwater Tract East	324.0061	20.53	13.69
SFWMD 25YR-3 DAY	Stormwater Tract East	324.7561	20.53	13.70
SFWMD 25YR-3 DAY	Stormwater Tract East	325.5061	20.53	13.70
SFWMD 25YR-3 DAY	Stormwater Tract East	326.2561	20.52	13.71
SFWMD 25YR-3 DAY	Stormwater Tract East	327.0061	20.52	13.72
SFWMD 25YR-3 DAY	Stormwater Tract East	327.7561	20.52	13.72
SFWMD 25YR-3 DAY	Stormwater Tract East	328.5061	20.52	13.73
SFWMD 25YR-3 DAY	Stormwater Tract East	329.2561	20.52	13.73
SFWMD 25YR-3 DAY	Stormwater Tract East	330.0061	20.51	13.74
SFWMD 25YR-3 DAY	Stormwater Tract East	330.7561	20.51	13.75
SFWMD 25YR-3 DAY	Stormwater Tract East	331.5061	20.51	13.75
SFWMD 25YR-3 DAY	Stormwater Tract East	332.2561	20.51	13.76
SFWMD 25YR-3 DAY	Stormwater Tract East	333.0061	20.51	13.76
SFWMD 25YR-3 DAY	Stormwater Tract East	333.7561	20.51	13.77
SFWMD 25YR-3 DAY	Stormwater Tract East	334.5061	20.51	13.77
SFWMD 25YR-3 DAY	Stormwater Tract East	335.2561	20.50	13.78
SFWMD 25YR-3 DAY	Stormwater Tract East	336.0061	20.50	13.78
SFWMD 25YR-3 DAY	Stormwater Tract East	336.7561	20.50	13.79
SFWMD 25YR-3 DAY	Stormwater Tract East	337.5061	20.50	13.79
SFWMD 25YR-3 DAY	Stormwater Tract East	338.2561	20.50	13.80
SFWMD 25YR-3 DAY	Stormwater Tract East	339.0061	20.50	13.80
SFWMD 25YR-3 DAY	Stormwater Tract East	339.7561	20.49	13.81
SFWMD 25YR-3 DAY	Stormwater Tract East	340.5061	20.49	13.81
SFWMD 25YR-3 DAY	Stormwater Tract East	341.2561	20.49	13.82
SFWMD 25YR-3 DAY	Stormwater Tract East	342.0061	20.49	13.82
SFWMD 25YR-3 DAY	Stormwater Tract East	342.7561	20.49	13.83
SFWMD 25YR-3 DAY	Stormwater Tract East	343.5061	20.49	13.83
SFWMD 25YR-3 DAY	Stormwater Tract East	344.2561	20.49	13.84
SFWMD 25YR-3 DAY	Stormwater Tract East	345.0061	20.48	13.84
SFWMD 25YR-3 DAY	Stormwater Tract East	345.7561	20.48	13.85
SFWMD 25YR-3 DAY	Stormwater Tract East	346.5061	20.48	13.85
SFWMD 25YR-3 DAY	Stormwater Tract East	347.2561	20.48	13.86
SFWMD 25YR-3 DAY	Stormwater Tract East	348.0061	20.48	13.86
SFWMD 25YR-3 DAY	Stormwater Tract East	348.7561	20.48	13.86
SFWMD 25YR-3 DAY	Stormwater Tract East	349.5061	20.48	13.87
SFWMD 25YR-3 DAY	Stormwater Tract East	350.2561	20.48	13.87
SFWMD 25YR-3 DAY	Stormwater Tract East	351.0061	20.47	13.88
SFWMD 25YR-3 DAY	Stormwater Tract East	351.7561	20.47	13.88
SFWMD 25YR-3 DAY	Stormwater Tract East	352.5061	20.47	13.89
SFWMD 25YR-3 DAY	Stormwater Tract East	353.2561	20.47	13.89
SFWMD 25YR-3 DAY	Stormwater Tract East	354.0061	20.47	13.89
SFWMD 25YR-3 DAY	Stormwater Tract East	354.7561	20.47	13.90
SFWMD 25YR-3 DAY	Stormwater Tract East	355.5061	20.47	13.90
SFWMD 25YR-3 DAY	Stormwater Tract East	356.2561	20.47	13.91
SFWMD 25YR-3 DAY	Stormwater Tract East	357.0061	20.46	13.91
SFWMD 25YR-3 DAY	Stormwater Tract East	357.7561	20.46	13.91
SFWMD 25YR-3 DAY	Stormwater Tract East	358.5061	20.46	13.92
SFWMD 25YR-3 DAY	Stormwater Tract East	359.2561	20.46	13.92



100 year, 3 Day Node Max

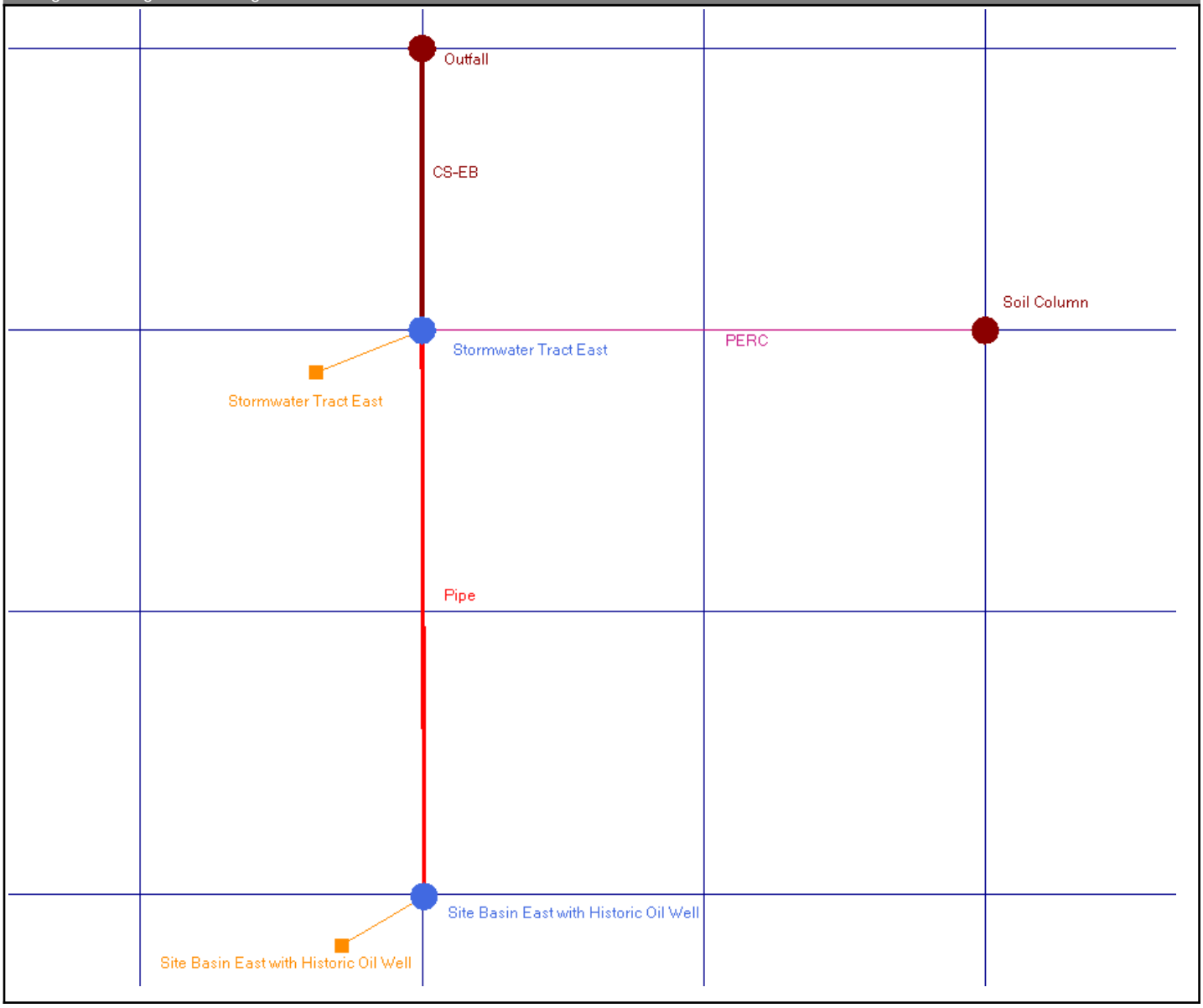
Sim	Node Name	Relative Time [hrs]	Maximum Stage [ft]	Time to Maximum Stage [hrs]
SFWMD 100YR-3 DAY	Site Basin East	356.0011	23.75	72.6761
SFWMD 100YR-3 DAY	Stormwater Tract East	356.0011	23.74	72.7594

100 year, 3 Day Link Max

Sim	Link Name	From Node Name	To Node Name	Relative Time [hrs]	Maximum Flow Rate [cfs]	Time to Maximum Flow Rate [hrs
SFWMD 100YR-3 DAY	CS-EB	~~D~CS-EB~N	Outfall	356.0011	0.00	0.0000

StormWise Input Summary – 25 Year/3 day Back to Back Storm Event

Background Image: Nodal Diagram



Node: Outfall

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	20.11
0	0	0	360.0000	19.00

Comment:

Node: Site Basin East

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 20.46 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

INITIAL STAGE AT RECOVERY EL

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
20.00	0.0000	0
22.00	0.0000	0
22.99	0.0010	44
23.00	6.4100	279220
24.50	12.0700	525769
26.00	12.8100	558004

Comment:

Node: Soil Column

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 19.00 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	19.00
0	0	0	72.0000	19.00
0	0	0	360.0000	19.00

Comment:

Node: Stormwater Tract East

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 20.46 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

INITIAL STAGE AT RECOVERY EL

Stage [ft]	Area [ac]	Area [ft2]
19.00	0.0000	0
19.99	0.0010	44

Stage [ft]	Area [ac]	Area [ft2]
20.00	3.0800	134165
22.00	3.4200	148975
23.00	3.8700	168577
24.50	4.1000	178596
26.00	4.3200	188179

Comment:

Manual Basin: Site Basin East

Scenario: Scenario1
Node: Site Basin East
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 18.3000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 14.9500 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
14.9500	Site Basin East	Site Basin East	

Comment:

Manual Basin: Stormwater Tract East

Scenario: Scenario1
Node: Stormwater Tract East
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.3200 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
4.3200	Stormwater Tract East	Stormwater Tract East	

Comment:

Drop Structure Link: CS-EB

Scenario: Scenario1
From Node: Stormwater Tract East
To Node: Outfall
Link Count: 1
Pipe Flow Direction: Both
Solution: Combine

Upstream Pipe		Downstream Pipe	
Invert:	15.00 ft	Invert:	15.00 ft
Manning's N:	0.0120	Manning's N:	0.0120
Geometry: Circular		Geometry: Circular	
Max Depth:	1.50 ft	Max Depth:	1.50 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft

Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	68.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	0.50	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

Weir:	1	**Bottom Clip**	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	**Top Clip**	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	20.28 ft	Op Table:	
Control Elevation:	19.00 ft	Ref Node:	
Max Depth:	0.25 ft	**Discharge Coefficients**	
Max Width:	0.25 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment: Retention required to elevation 20.28 FT-NAVD

Weir Component

Weir:	2	**Bottom Clip**	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	**Top Clip**	
Geometry Type:	Circular	Default:	0.00 ft
Invert:	20.59 ft	Op Table:	
Control Elevation:	19.00 ft	Ref Node:	
Max Depth:	0.25 ft	**Discharge Coefficients**	
		Weir Default:	3.200
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Percolation Link: PERC

Scenario:	Scenario1	Surface Area Option:	Use 1st Point in Stage/Area Table
From Node:	Stormwater Tract East	Vertical Flow Termination:	Horizontal Flow Algorithm
To Node:	Soil Column	Perimeter 1:	2572.00 ft
Link Count:	1	Perimeter 2:	2886.00 ft
Flow Direction:	Both	Perimeter 3:	5398.00 ft
Aquifer Base Elevation:	16.83 ft	Distance P1 to P2:	50.00 ft
Water Table Elevation:	19.00 ft	Distance P2 to P3:	450.00 ft

Annual Recharge Rate:	0 ipy
Horizontal Conductivity:	21.840 fpd
Vertical Conductivity:	14.560 fpd
Fillable Porosity:	0.200
Layer Thickness:	1.00 ft
# of Cells P1 to P2:	5
# of Cells P2 to P3:	10

Comment:

Pipe Link: Pipe		Upstream		Downstream	
Scenario:	Scenario1	Invert:	15.10 ft	Invert:	15.10 ft
From Node:	Site Basin East	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	Stormwater Tract East	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	1007.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Curve Number: 1 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
Site Basin East	Site Basin East	60.0
Stormwater Tract East	Stormwater Tract East	60.0

Impervious: 1 [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia/S [dec]	Ia Impervious [in]	Ia Pervious [in]
Site Basin East	100.00	100.00	0.00	0.00	0.000	0.000
Stormwater Tract East	0.00	0.00	0.00	0.00	0.000	0.000

Simulation: SFWMD 100YR-3 DAY

Scenario:	Scenario1
Run Date/Time:	N/A
Program Version:	N/A

General

Run Mode:	Normal

Year	Month	Day	Hour [hr]

Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 14.10 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 10YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 11:40:16 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD
Rainfall Amount: 6.89 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 25YR-3 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 1:56:38 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	45.0000
0	0	0	72.0000	45.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~SFWMD-72
Rainfall Amount: 10.70 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: SFWMD 5 YR-1 DAY

Scenario: Scenario1
Run Date/Time: 9/23/2025 11:41:32 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
0	0	0	72.0000	240.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FLMOD

Rainfall Amount:	5.79 in
Storm Duration:	24.0000 hr
Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (1D):	100 ft2
Energy Switch (1D):	Energy

Comment:

25 year, 3 Day Back to Back Node Max

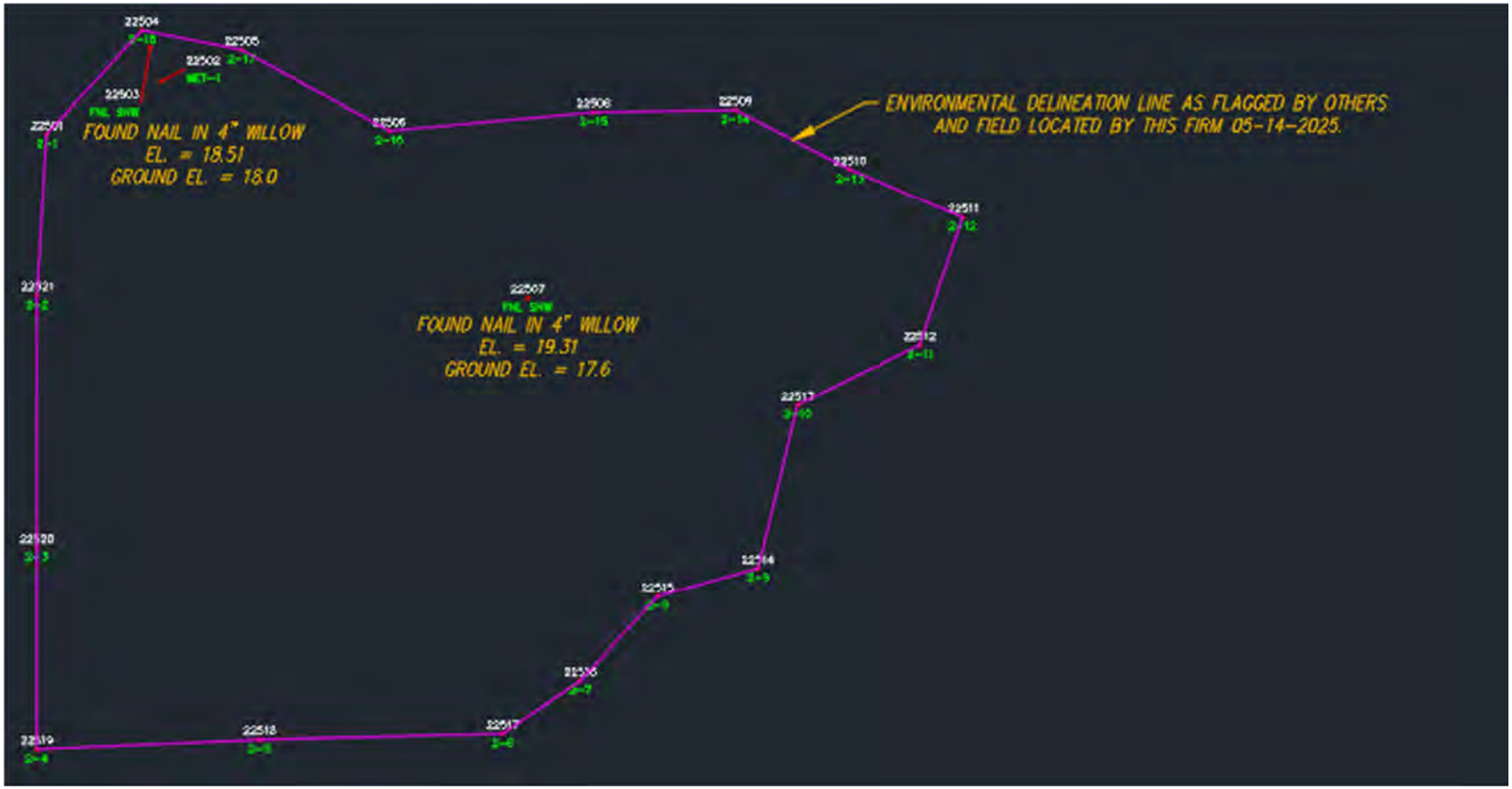
Sim	Node Name	Relative Time [hrs]	Maximum Stage [ft]	Time to Maximum Stage [hrs]
SFWMD 25YR-3 DAY	Site Basin East	359.2558	23.28	61.1324
SFWMD 25YR-3 DAY	Stormwater Tract East	359.2558	23.26	72.2210

Appendix J: Nail Elevations

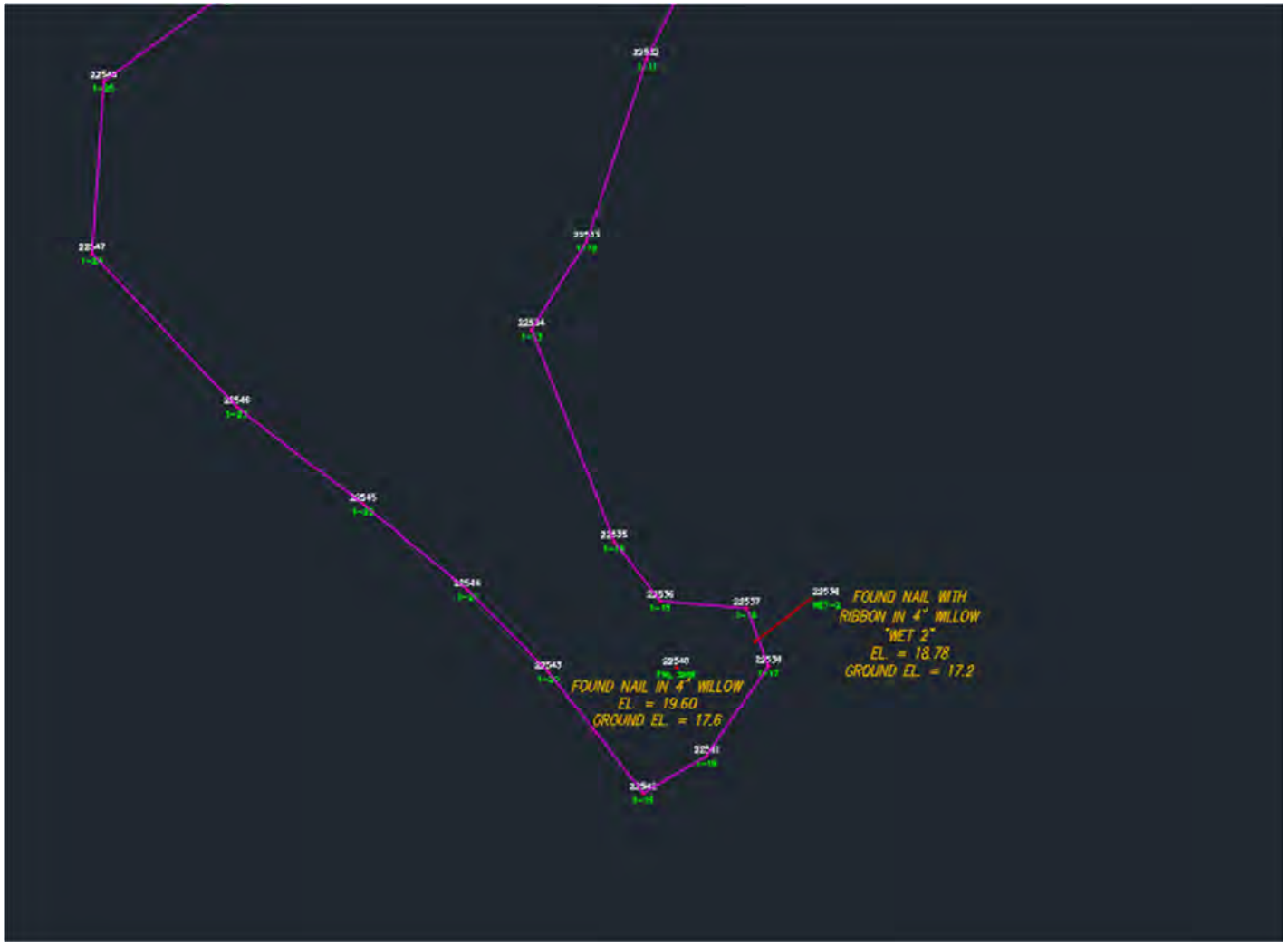
Wetland Area 1 – Nail Photos

Wetland Area 2 Photos

Western


22504
22505
22502
22503
FND. SHW
FOUND NAIL IN 4" WILLOW
EL. = 18.51
GROUND EL. = 18.0
22501
22506
22508
22509
ENVIRONMENTAL DELINEATION LINE AS FLAGGED BY OTHERS
AND FIELD LOCATED BY THIS FIRM 05-14-2025.
22510
22511
22507
FND. SHW
FOUND NAIL IN 4" WILLOW
EL. = 19.31
GROUND EL. = 17.6
22512
22513
22514
22515
22516
22517
22518
22519
22520
22521

Eastern


FOUND NAIL WITH
RIBBON IN 4" WILLOW
"WET 2"
EL. = 18.78
GROUND EL. = 17.2
FOUND NAIL IN 4" WILLOW
EL. = 19.60
GROUND EL. = 17.6

Appendix K: Utility Letter of Availability

Florida Governmental Utility Authority

FGUA c/o Accenture
9400 Southpark Center Loop, Suite 400
Orlando, FL 32819

(877) 552-3482 Toll Free
(407) 629-6900 Tel

April 22, 2025

Jennifer Sheppard
Atwell, LLC
10511 Six Mile Cypress Parkway
Fort Myers, FL 33966
fortmyerspermitting@atwell-group.com

RE: Potable Water, Wastewater, and/or Reclaim Water Availability – LOA ID#: 25-054 LED

Parcel ID No.: 26-44-26-00-00003.0010

3650 5th St W, Lehigh Acres, FL 33971

Sunniland Commercial & Residential

Dear Ms. Sheppard:

The FGUA has received your Application for Service Availability, and upon review, it has been determined that potable water and wastewater disposal service is generally available to the address provided. The attached site map indicates the approximate size and location of the existing mains in the area. Please be advised that main extensions, connection to the reclaimed water system, and other system enhancements funded by the project sponsor may be required.

The application indicated that the proposed project consists of 365,000 SF of commercial uses and 300 dwelling units with an estimated potable water usage demand of 114,750 GPD and 114,750 GPD of wastewater disposal. Currently, FGUA facilities are able to accommodate these demands. Projects in the Lehigh Acres Service Area will be supplied on a first come, first served basis, which will be determined once the required impact fees have been paid. Additionally, during the design process, if existing conditions warrant, a hydraulic analysis will need to be performed by the project engineer to evaluate the impacts the proposed project may have on the existing water and wastewater systems.

This letter should not be construed as a commitment to serve, but only as a statement of the availability of service and is effective for twelve (12) months from the date of issue. The FGUA commitment to serve will be made once a Utility Infrastructure Conveyance and Service Agreement (CSA) is fully executed. To move this project forward, contact Development Services via email at devservices@fgua.com to receive a plan submittal package and schedule the pre-application meeting if required.

FGUA Board of Directors

PAM KEYES, P.E., Vice Chair, Lee County / KEN CHEEK, P.E., Citrus County / SHANE PARKER, P.E., Vice Chair, Hendry County / TAMARA RICHARDSON, P.E., Chair, Polk County / ADOLFO GONZALEZ, P.E., Pasco County / JOSHUA KRAMER, P.E., Marion County / HEIDI PETITO, Flagler County

Sincerely,

FLORIDA GOVERNMENTAL UTILITY AUTHORITY

Digitally signed by Paul Arnett
Date: 2025.04.22 11:52:23 -04'00'

Paul Arnett
Development Services Manager

CC: Mike Currier, South Region Area Manager

Encl.

1. Pre-Application Meeting Information
2. Utility Locates
3. Fee Statement/Receipt

FGUA Board of Directors
PAM KEYES, P.E., Vice Chair, Lee County / KEN CHEEK, P.E., Citrus County / SHANE PARKER, P.E., Vice Chair, Hendry County / TAMARA RICHARDSON, P.E., Chair, Polk County / DAVID ALLEN, P.E., Pasco County /JODY KIRKMAN, P.E., Marion County/ HEIDI PETITO, Flagler County

South Florida Water Management District
Individual Environmental Resource Permit No. 36-114324-P
Date Issued: January 16, 2026

Permittee:	WMG Acquisitions, LLC 270 W Plant Street #210 Winter Garden, FL 34787
Project:	Sunniland Commons
Application No.	250708-54727
Location:	Lee County, See Exhibit 1

Your application for an Individual Environmental Resource Permit is approved. This action is taken based on Chapter 373, Part IV, of Florida Statutes (F.S.) and the rules in Chapter 62-330, Florida Administrative Code (F.A.C.). Unless otherwise stated, this permit constitutes certification of compliance with state water quality standards under section 401 of the Clean Water Act, 33 U.S.C. 1341, and a finding of consistency with the Florida Coastal Management Program. Please read this entire agency action thoroughly and understand its contents.

This permit is subject to:

- Not receiving a filed request for a Chapter 120, F.S., administrative hearing.
- The attached General Conditions for Environmental Resource Permits.
- The attached Special Conditions.
- All referenced Exhibits.

All documents are available online through the District's RegPermitting site at www.sfwmd.gov/regpermitting.

If you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights", we will assume that you concur with the District's action.

The District does not publish notices of action. If you wish to limit the time within which a person may request an administrative hearing regarding this action, you are encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Legal requirements and instructions for publishing a notice of agency action, as well as a noticing format that can be used, are available upon request. If you publish a notice of agency action, please send a copy of the affidavit of publication provided by the newspaper to the District's West Palm Beach office for retention in this file.

If you have any questions regarding your permit or need any other information, please call us at 1-800-432-2045 or email regpermitting@sfwmd.gov.

Sergio Guzman, P.E.
Regulation Section Administrator

South Florida Water Management District
Individual Environmental Resource Permit No. 36-114324-P

Date Issued: January 16, 2026	**Expiration Date:** January 16, 2031
Project Name:	Sunniland Commons
Permittee:	WMG Acquisitions, LLC 270 W Plant Street #210 Winter Garden, FL 34787
Operating Entity:	Sunniland Commons Property Owners Association, Inc.
Location:	Lee County
Permit Acres:	31.86 acres
Project Land Use:	Commercial
Special Drainage District:	Lehigh Acres Municpal Services Improvement District
Water Body Classification:	CLASS III
FDEP Water Body ID:	3240K
Wetland and Surface Water Impacts:	2.8 acres
Conservation Easement to District:	No
Sovereign Submerged Lands:	No

Project Summary

This Environmental Resource Permit (ERP) authorizes construction and operation of a stormwater management (SWM) system serving 31.71 acres of commercial/mixed use development known as Sunniland Commons.

The proposed project consists of the backbone infrastructure to support future commercial/mixed-use projects. It includes internal roadways, drainage, and the SWM system. The site includes 9 proposed lots for future development, which will be mass graded under this application. The SWM system consists of the western basin and eastern basin with separate discharge points to the south to the LAMSID Angelfish Canal with ultimate discharge to the Orange River. Site plans and calculations are attached as Exhibit Nos. 2.0 and 2.1.

Issuance of this permit constitutes certification of compliance with state water quality standards in accordance with Rule 62-330.062, FAC.

The project is a grandfathered activity pursuant to Subsection 3.1.2(i), ERP Applicant's Handbook (AH) Volume (Vol.) I.

Site Description
The project spans two vacant parcels located at the intersection of Lee Boulevard and Sunniland Boulevard in Lee County. The two parcels are separated from each other by Sunniland Boulevard. The west parcel (10.99 acres) and the east parcel (20.72 acres) are bordered by Lehigh Acres Municipal Services Improvement District (LAMSID) Canal to the north, and do not include any permitted SWM facilities. The eastern parcel surrounds an existing oil well 1.59-acre site, which is not part of the proposed improvements. Refer to Exhibit No. 1.0 for a location map.

For information on wetland and other surface water (OSW) impacts, please see the Wetlands and OSWs section of this permit.

Ownership and Operation & Maintenance (O&M)
WMG Acquisitions, LLC submitted a purchase agreement as demonstration of real property interest for the project area. Prior to commencement of construction, documentation of ownership must be submitted to the Agency. If the property is conveyed to an entity other than the permittee, a permit transfer will be required.

Perpetual O&M of the SWM system is the responsibility of Sunniland Commons Property Owners Association, Inc., as indicated in the submitted draft governing documents. Refer to Exhibit No. 4.0. Upon completion of construction and in conjunction with submittal of the construction completion certification (CCC), a request for transfer to the operating entity and recorded copies of its governing documents must be submitted in accordance with General Condition No. 7.

Please be aware that properties within the South Forida Water Management District (District) may be subject to canal, road and/or oil, gas or mineral (OGM) reservations issued to the District or The Board of Trustees of the Internal Improvement Trust Fund of the State of Florida (TIITF). These reservations encumber title to specific properties by granting certain rights to the District or TIITF to use the property to perform activities stated in the reservation documents, **regardless** of approvals/permits acquired or improvements constructed by the fee owner. It is the property owner's responsibility to verify whether reservations exist on the property. The property owner may apply to the District or TIITF (or both, if applicable) to release reservations on the property at ReleaseApplications@sfwmd.gov. Issuance of an ERP for a proposed project on a specific property **does not** obligate the District or TIITF to release any reservations encumbering the property. Construction of approved/permitted works on property with unreleased reservations is at the risk of the fee owner.

Engineering Evaluation:

Land Use
Please refer to the Engineering Evaluation Tables for land use details and page 4 of Exhibit No. 2.0 for land use details of each parcel. Refer to page 6 of Exhibit No. 2.0 for buildout areas per basin.

Water Quality
The project is located within a watershed identified by the Florida Department of Environmental Protection as impaired; therefore, the design includes a site-specific pollutant loading analysis and an additional 50% water quality treatment volume above the amounts required pursuant to Section 4.2.1, ERP Applicant's Handbook (AH) Volume (Vol.) II (effective May 22, 2016), as reasonable assurances that the project's discharge will not cause or contribute to violations of State water quality standards. The project provides a total of 3.51 ac-ft of water quality treatment. The East Basin includes compensating water quality for 1.36 acres of future additional offsite impervious area within Lee Boulevard and Sunniland Boulevard.

The project includes implementation of a Turbidity and Erosion Control Plan, (Exhibit No. 2.0), as additional reasonable assurance of compliance with water quality criteria during construction.

Stormwater Management Design
The property is split into a western basin and eastern basin both with separate discharge points to the north to the LAMSID Angelfish Canal and ultimate reaching the Orange River. Refer to pages 18 and 19 of Exhibit No. 2.1 for limits of each basin.

West Basin (10.99 acres)**:** Stormwater runoff from this basin will be directed via swales and drainage structures to an exfiltration trench, and then overflow via ST-06 and ST-08 into Dry Detention #1 located north of Tract 1 for water quality and attenuation. This basin will then discharge to the LAMSID Canal via control structure CS-WB.

East Basin (20.87 acres): Stormwater runoff from the East Basin will be directed via swales and drainage structures to Dry Retention #1 at the northeast portion of the basin for water quality and attenuation. This basin will then discharge to the LAMSID Canal via control structure CS-EB. This basin includes the existing 1.6-acre oil well parcel located in the middle of the basin, not owned by the applicant or impacted. Due to the unusual condition of the oil well parcel, historic flow was accounted for within the modeling. The historic patterns will not be disturbed by the construction of this project. A drainage easement is proposed on the east side of the oil well parcel through applicant owned area for future use by the oil well parcel for discharge to the eastern LAMSID Canal, for a means of future access to the abutting LAMSID Canal if needed. This basin also provides compensating water quality for off-site improvements to abutting Lee Boulevard and Sunniland Boulevard.

Discharge Structures
Refer to page 9 of Exhibit No. 2.0 for control structures details.

Discharge
As found in the Water Quantity Data Table, the SWM design meets the criteria of Section 3.2(c), ERP AH Vol. II (effective May 22, 2016) based on the allowable discharge rate of 30.1 CSM for developments within the Lehigh Acres Municipal Services District (LAMSID).

Parking Lot Design
As found in the Water Quantity Data Table, the minimum parking lot elevations have been set at or above the peak design storm elevation.

Road Design
As found in the Water Quantity Data Table, the minimum road crown elevations have been set at or above

the peak design storm elevation.

Perimeter Berm
As found in the Water Quantity Data Table, the minimum perimeter berm elevations have been set at or above the peak design storm elevation.

Finished Floors
As found in the Water Quantity Data Table, the minimum finished floor elevations have been set at or above the peak design storm elevation.

Flood Plain/Compensating Storage
According to Flood Insurance Map No. 12071C0475F, the site lies in Flood Zone "X" which does not have an associated Base Flood Elevation and floodplain compensation is not required.

Offsite Flows
The eastern parcel also accounts for historic flow from the 1.60-acre oil well parcel which not owned by the applicant. The historic flow will not be disturbed. A proposed drainage easement is included on the east side of the oil well parcel through applicant owned area for future use by the oil well parcel for discharge to the eastern LAMSID Canal for a means of future access to the abutting LAMSID Canal if needed.

Construction Completion Certification (CCC) and O&M
Pursuant to Chapter 62-330.310, F.A.C., Individual Permits will not be converted from the construction phase to the operation phase until CCC of the project is submitted to and accepted by the District. This includes compliance with all permit conditions, except for any long-term maintenance and monitoring requirements. It is suggested that the permittee retain the services of an appropriate professional registered in the State of Florida for periodic observation of construction of the project.

For projects permitted with an operating entity that is different from the permittee, it should be noted that until the CCC is accepted by the District and the permit is transferred to an acceptable operating entity pursuant to Sections 12.1 - 12.3, ERP AH Vol. I and Section 62-330.310, F.A.C., the permittee is liable for O&M in compliance with the terms and conditions of this permit.

In accordance with Section 373.416(2), F.S., unless revoked or abandoned, all SWM systems and works permitted under Part IV of Chapter 373, F.S., must be operated and maintained in perpetuity.

The efficiency of SWM systems, dams, impoundments, and most other project components will decrease over time without periodic maintenance. The O&M entity must perform periodic inspections to identify if there are any deficiencies in structural integrity, degradation due to insufficient maintenance, or improper operation of projects that may endanger public health, safety, or welfare, or the water resources. If deficiencies are found, the O&M entity is responsible for correcting the deficiencies in a timely manner to prevent compromises to flood protection and water quality. See Section 12.4, ERP AH Vol. I for Minimum Operation and Maintenance Standards.

Notable project components requiring routine inspection and maintenance include but are not limited to:

- Side slopes for stormwater lakes and ponds – maintain side slopes no steeper than 4:1 (horizontal:vertical) to a depth of 2.0 feet below the control elevation and nurtured or planted from 2.0 feet below to 1.0 feet above the control elevation pursuant to Section 5.4.2, ERP AH Vol. II.
- Conveyance pipes, conveyance structures and discharge structures – all pipes and structures must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.
- Exfiltration trenches – all pipes and structures must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.
- Swales – maintain the permitted cross-section and vegetative cover.
- Underground storage facilities – all facilities must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.
- Pumps – float switches should be inspected and any obstructions removed to ensure proper operation;

intake and discharge pipes should be maintained clear of trash, sediment and vegetative debris; motors should be maintained to ensure proper operation.

Engineering Evaluation Tables:

Land Use

Basin	Land Type	Area (ac)	% of Total Basin
West Basin	Dry Detention Areas	1.01	9.19
	Impervious	0.40	3.64
	Pervious	9.58	87.17
	Total:	10.99	100%
East Basin	Dry Retention Areas	2.25	11.68
	Impervious	1.06	5.50
	Pervious	15.96	82.82
	Total:	19.27	100%

*The East Basin includes 1.60 acres of the oil well parcel (not included in land use table above)

Water Quality Volumetric

Basin	Treatment Type	Treatment System	Volume Required (ac-ft)	Volume Provided (ac-ft)
West Basin	Treatment	DRY DETENTION AND EXFILTRATION	1.57	1.59
East Basin	Treatment	DRY RETENTION	1.93	1.93

Water Quantity

Basin	Elevation Type	Storm Event (Yr/Day)	Precipitation Depth (in)	Peak Stage (ft NAVD88)	Min. EL (ft NAVD88)	Peak Discharge Rate (cfs)	Allowable Discharge Rate (cfs)
West Basin	Finished Floor	100Y3D	14.10	24.32	24.50	N/A	N/A
	Perimeter Berm/ Discharge	25YR3D	10.70	23.55	23.60	0.44	0.52
	Road Crown	10YR1D	6.89	23.10	23.10	N/A	N/A
	Parking Lot	10YR1D	6.89	23.10	23.10	N/A	N/A
East Basin	Finished Floor	100Y3D	14.10	23.88	24.50	N/A	N/A
	Perimeter Berm/ Discharge	25YR3D	10.70	23.38	23.40	0.89	0.91
	Road Crown	10YR1D	6.89	23.14	23.15	N/A	N/A
	Parking Lot	10YR1D	6.89	23.14	23.15	N/A	N/A

Environmental Evaluation:

Wetland and OSW Description
The project site contains a total of 2.80 acres of jurisdictional wetlands and no other surface waters. The on-site wetlands can be described as Willow Invaded by Exotics. Please refer to Exhibit No. 3.0 (FLUCCS Map) for the location of the wetlands and other surface waters.

Wetland and OSW Impacts
The project will result in 2.80 acres of direct wetland impacts. Please refer to Exhibit No. 3.1 (Impact Map) for the location of the wetlands being impacted. Additional wetland and other surface water descriptions can be found in the RegPermitting file.

Secondary Impacts
Secondary impacts were not considered, as all on-site wetlands are proposed for impact and the wetlands did not extend off-site.

Elimination and Reduction of Impacts
The ecological value of the functions provided by the area of wetlands being impacted is low, based on a site specific analysis using the factors in Section 10.2.2.3 of Applicant's Handbook, Volume I. The proposed mitigation will provide greater long term ecological value than the area of wetland to be adversely impacted, therefore the criteria of Section 10.2.1(a) of Applicant's Handbook Volume I have been met.

Mitigation Plan
To mitigate for the wetland impacts, the permittee will purchase 1.41 freshwater forested credits from the Panther Island Mitigation Bank Expansion as depicted in Exhibit No. 3.2 (Mitigation Bank Reservation Letter). The amount of required mitigation was determined using the Uniform Mitigation Assessment Method in Chapter 62-345, F.A.C.

Monitoring and Maintenance
The 1.18-acre, on-site, upland preserve will be placed under a conservation easement dedicated to Lee County. No monitoring or maintenance will be required by the District for this area.

Fish, Wildlife, and Listed Species
A protected species survey was conducted by Owen Environmental Consulting, Inc on September 2025. A total of 23 gopher tortoise (Gopherus polyphemus) burrows and 2 burrowing owls (Athene cunicularia) were observed on the project site during the survey. The gopher tortoise and burrowing owl are listed as state-threatened by the FWC.

The two burrowing owls were observed foraging within open areas of the project site. No burrowing owl burrows or evidence of nesting by the species was observed during the protected species survey.

A Florida bonneted bat roost survey was conducted on the project site September 4, 2025. There were no snags containing cavities observed on-site during the Florida bonneted bat roost survey. Additionally, no living trees with cavities or artificial structures with potential roosting features were observed on-site.

This permit does not relieve the permittee from complying with all applicable rules and any other agencies' requirements if, in the future, endangered or threatened species or species of special concern are discovered on the site.

Environmental Evaluation Tables:

Summary

Wetlands and Other Surface Waters:	2.8	acres
Direct Impacts:	2.8	acres
Secondary impacts:	0	acres
Net UMAM Functional Loss/ Gain:	0	units
Total Onsite Mitigation Area:	0	acres
Total Offsite Mitigation Area:	0	acres
Mitigation Provided in Permit No.:		

Total Mitigation Bank Credits Provided

Mitigation Bank	Type	Total Credits
Panther Island Expansion	FF	1.41
Total:		1.41

Wetland Impacts

Activities in Wetlands or Other Surface Waters, With Mitigation at a Bank

ID	Acres	Community Description	Bank Name	Method	Current Score	With Score	Ratio or Add'l factor	Minimum Credits Needed
Wetland 1	2.25		Panther Island Expansion	UMAM	0.5	0	1	1.13
Wetland 2	0.55	Wetlands	Panther Island Expansion	UMAM	0.5	0	1	0.28
Total:	**2.8**							**1.41**

Related Concerns:

Water Use Permit Status
The permittee has indicated that groundwater from the Sandstone Aquifer will be used as a source for irrigation water for the project. Water Use Application No. 250924-57323; Permit No. 36-114876-W is being processed concurrently with this permit.

The permittee has indicated that dewatering is required for construction of this project. Water Use Application No. 250923-57307; Permit No. 36-114916-W is being reviewed concurrently for this project.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

Water and Wastewater Service
Florida Governmental Utility Authority.

Historical/ Archaeological Resources
The District has received correspondence from the Florida Department of State, Division of Historical Resources on July 31, 2025 indicating that no significant archaeological or historical resources are recorded on the project site; therefore, the project is unlikely to have an effect upon any such resources.

This permit does not release the permittee from complying with any other agencies requirements in the event that historical and/or archaeological resources are found on the site.

General Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," (October 1, 2013), (http://www.flrules.org/Gateway/reference.asp?No=Ref-02505), incorporated by reference herein, indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C., and shall be submitted electronically or by mail to the Agency. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.

5. Unless the permit is transferred under rule 62-330.340, F.A.C., or transferred to an operating entity under rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms, and conditions of the permit for the life of the project or activity.

6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
   a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex- "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit"[Form 62-330.310(3)]; or
   b. For all other activities- "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
   c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

7. If the final operation and maintenance entity is a third party:
   a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Florida Department of State, Division of Corporations, and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the

County in which the activity is located.
b. Within 30 days of submittal of the as-built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

9. This permit does not:
a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
b. Convey to the permittee or create in the permittee any interest in real property;
c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

12. The permittee shall notify the Agency in writing:
a. Immediately if any previously submitted information is discovered to be inaccurate; and
b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

14. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850)245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with section 872.05, F.S. For project activities subject to prior consultation with the DHR and as an alternative to the above requirements, the permittee may follow procedures for unanticipated discoveries as set forth within a cultural resources assessment survey determined

complete and sufficient by DHR and included as a specific permit condition herein.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

Special Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. The construction authorization for this permit shall expire on the date shown on page 2.

2. Perpetual O&M of the SWM system shall be the responsibility of Sunniland Commons Property Owners Association, Inc. Upon completion of construction and in conjunction with submittal of the as-built certification, a request for transfer to the operating entity with supporting documentation must be submitted in accordance with General Condition No. 7.

3. Prior to the commencement of construction and pursuant to Subsection 4.2.3(d)(3), ERP AH Vol. I, the permittee shall demonstrate ownership of the project area to the District's ERB staff.

4. A stable, permanent and accessible elevation reference shall be established on or within 100 feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.

5. Prior to any future construction, the permittee shall apply for and receive an Individual ERP. As part of the permit application, the applicant for that phase shall provide documentation verifying that the proposed construction is consistent with the design of the master stormwater management system, including the land use and site grading assumptions.

6. Prior to initiating construction activities associated with this ERP, the permittee is required to hold a pre-construction meeting with field representatives, consultants, contractors, District Environmental Resource Bureau (ERB) staff, and any other local government entities as necessary. The purpose of the pre-construction meeting is to discuss construction methods, sequencing, best management practices, identify work areas, staking and roping of preserves where applicable, and to facilitate coordination and assistance amongst relevant parties. To schedule a pre-construction meeting, please contact ERB staff from the Fort Myers Service Center at (239) 338-2929 or via e-mail at: precon@sfwmd.gov. When sending a request for a pre-construction meeting, please include the application number, permit number, and contact name and phone number.

7. All commercial/industrial parcels shall provide a minimum dry pre-treatment volume of 1/2 inch of runoff prior to discharge into the master stormwater management system.

8. This permit does not authorize the permittee to cause any adverse impact to or “take” of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or permittee associated with this project. Please refer to Chapter 68A-27, F.A.C. for definitions of “take” and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a “take” permit cannot be issued. Requests for further information or review can be sent to: FWCConservationPlanningServices@MyFWC.com.

9. Prior to commencement of construction, and in accordance with the work schedule herein, the permittee shall submit documentation from the Panther Island Mitigation Bank Expansion that 1.41 freshwater forested credits for this project have been paid for in full and deducted from the Panther Island Mitigation Bank Expansion's ledger. See Exhibit No. 3.2 for the Letter of Reservation.

Project Work Schedule for Permit No. 36-114324-P

The following activities are requirements of this Permit and shall be completed in accordance with the Project Work Schedule below. Please refer to General Conditions, Special Conditions and/or Specific Conditions for more information. Any deviation from these time frames will require prior approval from the District's Environmental Resources Bureau and may require a modification to this permit. Such requests must be made in writing and shall include: (1) reason for the change, (2) proposed start/finish and/or completion dates, and (3) progress report on the status of the project.

Condition No.	Date Added	Description (Application Number)	Due Date	Date Satisfied
GC 4	01/16/2026	Construction Commencement Notice	Prior to Construction	
GC 6	01/16/2026	Submit Certification	30 Days After Construction Completion	
GC 7	01/16/2026	Submit Operation Transfer Request	Within 30 days of Certification	
SC 3	01/16/2026	Submit Proof of Ownership	Prior to Construction	
SC 6	01/16/2026	Pre-Construction Meeting	Prior to Construction	
SC 9	01/16/2026	Submit Mitigation Bank Ledger Documentation	04/16/2026	

GC = General Condition

SC = Special Condition

Distribution List

John A Fisher, Lee Sunniland, LLC

John A Fisher, JES Family, LLC

Megan Knight, Atwell, LLC

Rachel Tracey, Atwell, LLC

D Brent Addison, Atwell, LLC

Audubon of Florida

Div of Recreation and Park - District 4

US Army Corps of Engineers - Permit Section

Exhibits

The following exhibits to this permit are incorporated by reference. The exhibits can be viewed by clicking on the links below or by visiting the District's RegPermitting website at www.sfwmd.gov/regpermitting and searching under this application number 250708-54727.

Exhibit No. 1.0 Location Map

Exhibit No. 2.0 Plans

Exhibit No. 2.1 Drainage Calculations

Exhibit No. 3.0 FLUCCS Map

Exhibit No. 3.1 Impact Map

Exhibit No. 3.2 Mitigation Bank Reservation Letter

Exhibit No. 4.0 Draft Declaration of Covenants

NOTICE OF RIGHTS

As required by Chapter 120, Florida Statutes, the following provides notice of the opportunities which may be available for administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes, or judicial review pursuant to Section 120.68, Florida Statutes, when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Some of the legal proceedings detailed below may not be applicable or appropriate for your situation. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Florida Statutes. Persons seeking a hearing on a District decision which affects or may affect their substantial interests shall file a petition for hearing in accordance with the filing instructions set forth herein within 21 days of receipt of written notice of the decision unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Florida Statutes; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Florida Statutes. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, posting, or publication that the District has taken or intends to take final agency action. Any person who receives written notice of a District decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action that materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional point of entry pursuant to Rule 28-106.111, Florida Administrative Code.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Florida Statutes, shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The District may grant the request for good cause. Requests for extension of time must be filed with the District prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and whether the District and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at the District's headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day.

Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.
- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the District's security desk does not constitute filing. It will be necessary to request that the District's security officer contact the Office of the District Clerk. An employee of the District's Clerk's office will

receive and process the petition.

- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document.

INITIATION OF ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Rules 28-106.201 and 28-106.301, Florida Administrative Code, initiation of an administrative hearing shall be made by written petition to the District in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other District identification number, if known.
2. The name, address, any email address, any facsimile number, and telephone number of the petitioner, petitioner's attorney or qualified representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the District's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the District's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the District's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the District to take with respect to the District's proposed action.

MEDIATION

The procedures for pursuing mediation are set forth in Section 120.573, Florida Statutes, and Rules 28-106.111 and 28-106.401–.405, Florida Administrative Code. The District is not proposing mediation for this agency action under Section 120.573, Florida Statutes, at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Florida Statutes, and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final District action may seek judicial review of the District's final decision by filing a notice of appeal with the Office of the District Clerk in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the appropriate district court of appeals via the Florida Courts E-Filing Portal.

PART IV #25-49

Recommended Action

Engineering Review:

By: _____ 5/15/2026 **Approved** **X** **Denied** ___

District Field Review:

By: _____ **Approved** ___ **Denied** ___

District Manager: _____ **Date**: _____

Comments:

The referenced permit modification application for a proposed commercial development (Sunniland Commons) at 3614 - 3650 5th Street in Lehigh Acres, as submitted by Atwell, LLC., has been reviewed and is recommended for approval, subject to the following comments and stipulations:

1. Permittee must submit copies of all applicable permits from other governing agencies prior to construction. This includes, but is not limited to, a Lee County Development Order, Lee County DOT Right-of-Way Permit, South Florida Water Management District Environmental Resource Permit, and Florida Department of Environmental Protection permits.

2. The permittee shall submit record drawings within thirty (30) days of project completion. The drawings must be signed and sealed and shall include sufficient detail to demonstrate that the permitted facilities have been installed or constructed in substantial compliance with the LAMSID-approved plans and design.

3. Per LAMSID permitting policy section 4.28.3 *Pipe culvert ends shall be blended/mitered to match the existing canal slope (or other receiving LA-MSID water management facility) so as not to extend into the effective flow cross-sectional area. Erosion control (such as rip-rap) must be placed per FDOT Specifications at the culvert outlet to prevent erosion to the receiving LA-MSID water management facility's bank. Discharge culverts within the District's rights-of-way must be clearly marked with a sign or marker approved by District Staff, shall be maintained by the project owner or association, and must have legal rights for construction, use, maintenance, and replacement.* Please revise the outfall headwalls (ST-01 & ST-03) accordingly.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: PER #25-84, Restaurant - 49 Alabama Rd. N.

Meeting Date: June 15, 2026

Agenda Item # 2D

[x] **CONSENT** [ ] **ACTION** [ ] **OLD BUSINESS** [ ] **NEW BUSINESS**

Request Initiated By: [ ] **COMMISSIONER** _____ [ ] **ATTORNEY**

[ ] **BOARD** [x] **MANAGER** [ ] **ENGINEER** [ ] **AUDITOR**

Recommended motion: Move to approve PER #25-84, Restaurant - 49 Alabama Rd. N, with any listed stipulations.

What the action accomplishes: Allows Abdalrahim Ahmadi to develop a commercial site at 49 Alabama Rd., while certifying on their plans that their stormwater facilities are adequate and able to discharge less than 30 CSM.

Fiscal Impact: Permit Fees: $1,500.00

Staff comments: Approved according to the revised plans submitted May 4, 2026.

Staff review and recommended approval:

[x] **MANAGER** [ ] **ASSISTANT DISTRICT MGR**

[ ] **ATTORNEY** [ ] **FIELD SUPERINTENDENT**

[x] **ENGINEER** [x] **CONTROLLER**

Board Action:

[ ] **APPROVED** [ ] **DENIED** [ ] **DEFERRED**

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Abdalrahim Ahmadi / Manager, 15509 Laguna Hills Drive, Fort Myers, FL 33908, hereinafter referred to as the "Permittee") as a non-exclusive permit for a proposed 1,000 SF +/- restaurant on (0.341 +/- acres), located at 49 Alabama Road N., with an on-site stormwater system with an outfall connected to the existing storm sewer pipe that drains into Dave Canal (47-31-9), in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 25-84

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #25-84 is approved according to the revised plans and calculations submitted May 4th, 2026.

2). Maintenance of the entire on-site storm water management system, including the detention areas, catch basins, storm sewer piping, perimeter berms, control structure and outfall pipe are the responsibility of the Permittee.

3). A permanent benchmark disc should be established on the proposed outfall structure (OCS-1), with the elevation and referenced datum clearly labeled on it.

4). An "As-Built" survey showing the completed improvements (including perimeter berm elevations, all pipe inverts and outfall control structure elevations) must be submitted to Lehigh Acres - MSID within 30 days following completion of the improvements.

5). Please provide Lehigh Acres - MSID with copies of all applicable permits from other governing agencies prior to commencing construction.

PART I

DATE SUBMITTED: 10 - 09 - 25

PERMIT #: 25 - 84

APPLICATION FOR A PERMIT

***Note**: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: Boral Engineering and Design, Inc. **PHONE #:** (239) 692-0509

PROJECT NAME: Alabama Rd N Restaurant

TOTAL ACREAGE: 0.341 acres

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 32-44-01-0001.0010					
Mailing Address:	**49 Alabama Rd N**				
City:	**Lehigh Acres**	**State:**	**FL**	**Zip:**	**33936**

STRAP NUMBERS (*attach additional sheet if necessary*):

Brief description of proposed project:

Application for:

The project will consist of a restaurant building (1,000 SF), associated site improvements that include parking lot, water and sewer utility connections, a drainage system, landscaping and lighting.

Is the project proposed to be developed in phases? ☐ **Yes** ☒ **No**

Estimated # of Phases:	1
***Permit Fee:**	$ **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	Abdalrahim Ahmadi/ Manager					
Mailing Address:	Street:	15509 Laguna Hills Drive				
City:	Fort Myers	State:	FL		Zip:	33908
Phone No.	Area Code:	239	Number:	247-3680	Ext.	
Fax No.	Area Code:		Number:	-		
E-mail Address:	239ama@gmail.com					

B. Relationship of applicant to property*:

☒ Owner* ☐ Trustee* ☐ Option holder* ☐ Lessee*

☐ Contract Purchaser* ☐ Other (indicate)* _____

C.

Name of Developer:						
Mailing Address:	Street:					
City:		State:			Zip:	
Phone No.	Area Code:	( )	Number:	-	Ext.	
Fax No.	Area Code:	( )	Number:	-		
E-mail Address:						

D.

Name of Authorized Agent(s):	Boral Engineering & Design Inc., Andres Boral, PE					
Mailing Address:	Street:	711 5th Ave S, #209				
City:	Naples	State:	FL		Zip:	34102
Phone No.	Area Code:	(239)	Number:	692 -0509	Ext.	
Fax No.	Area Code:	( )	Number:	-		
E-mail Address:	andres@boralengineering.com					

E.

Name of Property Owner:	Abdalrahim Ahmadi/ Manager					
Mailing Address:	Street:	15509 Laguna Hills Drive				
City:	Fort Myers	State:	FL		Zip:	33908
Phone No.	Area Code:	(239)	Number:	247-3680	Ext.	
Fax No.	Area Code:	( )	Number:	-		
E-mail Address:	239ama@gmail.com					

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

PRIMARY STRAP NUMBER: 32 - 44 - 27 - 01 - 00001 - 0010

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock
OQAB ABUOQAB	50%
SAWA ABUOQAB	50%

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

SIGNATURE OF APPLICANT

OQAB ATB4OQAB

PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 18th day of DEC (m), 2024 (y), by OQAB ATB4OQAB who is personally know to me or has produced _____ as identification.

DAVID M. BROWN
MY COMMISSION # HH 387958
EXPIRES: August 5, 2027

SIGNATURE OF NOTARY PUBLIC

David M. Brown

PRINTED NAME OF NOTARY PUBLIC

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		State:				Zip:	
Business No.	Area Code:	( )	Number:	-		Ext.	
Other Contact:							

ENGINEER

Name:	Andres Boral, PE, MBA, Boral Engineering & Design Inc.						
Mailing Address:	711 5th Ave S, #209						
City:	Naples	State:		FL		Zip:	34102
Business No.	Area Code:	(239)	Number:	692	- 0509	Ext.	
Other Contact:	Gabriel Mejia, P. E. (239) 465-8570						

OTHER REPRESENTATIVE/PROFESSIONAL

Name:							
Mailing Address:							
City:		State:				Zip:	
Business No.	Area Code:	( )	Number:	-		Ext.	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** ____0.031__(ACRE-FT) **Water Quality Volume (Provided):** ____0.031_(ACRE-FT) **Control Elevation:** _23.50___(FT-NGVD) **Minimum Road/Parking Elevation:** _**25.30**__(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** ___**25.87**_(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** ____**27.85**(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
	2	**Permit Application** (PARTS I & II)
	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
N/A	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
N/A	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
	1	**Check for appropriate Permit Fees** made out to LA-MSID.

April 27th, 2026

Michael S. Cook, CDM
Assistant District Manager
Lehigh Acres – Municipal Services Improvement District

RE: Response to 1st Round Comments
Site Development Plan
DOS2024-00180
Alabama Rd N Restaurant (DO Submittal Small)

Dear reviewer:

The following is our response to staff's 1st review comments for the above referenced project:

LAMSID / AIM Engineering Comments:

#1). Please add utility contact information on sheet 1 of 12 for Storm Water: Lehigh Acres Municipal Services Improvement District, 601 East County Lane, Lehigh Acres, FL 33936, (239) 368-0044.

Response: Please see revised Cover Sheet with the Storm Water utility included.

#2). Please relocate the sanitary sewer lift station out of the bottom of the detention area in the northeast corner of the site.

Response: Please see revised Site and GPD plans with the lift station relocated outside of the detention area.

#3). Please clearly show and label the perimeter berm as a continuous closed boundary (min. elevation 26.50') around the entire site.

Response: Please see revised plans with the continuous berm around the project site provided.

#4). The stormwater report narrative states that the stormwater system connects to an existing inlet along Homestead Road (page 2), however, the plans show the outfall in the southwest corner connecting to an existing inlet that ties into Dave Canal (47-31-9). Please adjust the offsite receiving body assumptions accordingly. At a minimum, the initial stage should correspond to the control elevation (23.5') and the peak stage should be set at the canal top-of-bank elevation. Please provide supporting topographic elevation data on the plans showing the canal elevations used in the hydraulic modeling.
Also, the existing storm sewer pipe runs from Homestead Road to Dave Canal and you are showing S-13 (junction box) and 55lf of 15" SD pipe on top of where the existing storm sewer pipe is believe to be located. Please locate the existing storm sewer and make your connection

point with a junction box at the existing pipe or run your outfall pipe on an angle directly to the existing inlet you have shown on the plans.

Response: Please see Drainage Calculations with revised project breakdown to reflect where the correct outfall is. As well as the revised initial stage set at 23.50'. Please see GPD Plan (Sheet 5) with revised storm water system to accommodate for the existing pipe north of the existing structure.

#5). Please label all contour line elevations on the Grading Plan and show the elevations of the bike rack area which appears to be located within the detention area side slopes. Please clarify or revise to ensure there are no conflicts with the proposed detention area storage volumes.

Response: Please see revised plans with bike rack area relocated and grades provided.

#6). The Building FFE Elevation is labeled as 27.85' on the Grading Plan but the stormwater report and the surface water management elevations list shown on the Grading Sheet all say the proposed FFE Elevation is 27.50'. Please revise so they all match.

Response: Please see revised Drainage Calculations and Civil Plan labeling the FFE elevation as 27.50'.

#7). Cross section "D" is labeled wrong, the "West Property Line" is actually the "East Property Line" closest to Alabama Road. Please revise accordingly.

Response: Please see revised Cross Section "D" on sheet 7.

#8). Per LAMSID Permitting Policy Section 4.28.4 – Design Criteria, minimum road and parking area elevations must be at or above the 10-year, 1-day design storm peak stage elevation. Please revise the plans and drainage calculations accordingly.

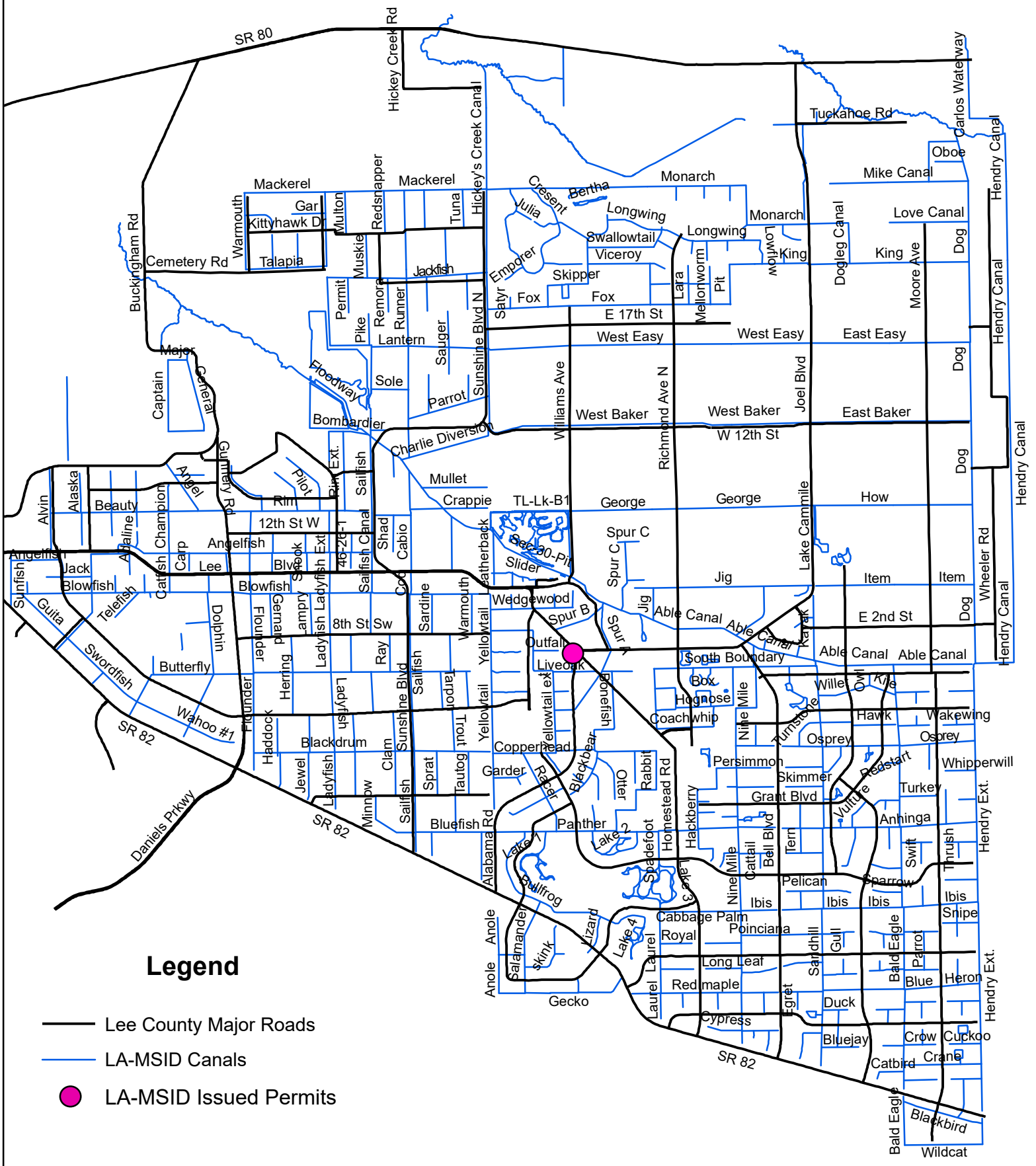
Response: Please see revised Drainage Calculations which include the 10-year, 1-day storm event. See Sheet 5 with revised Surface Water Management Elevations Table showing the minimum pavement above the 10-year, 1-day storm event.

Please contact our office if you have any questions.

Sincerely,

Andres Boral, PE, MBA
Florida License Number: 80373
Boral Engineering & Design, Inc.
andres@boralengineering.com

Permit # 2025-84



Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

Andres Boral, State of Florida, Professional Engineer, License No. 80373. This item has been electronically signed and sealed by Andres Boral, PE on the date indicated here using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SITE CONSTRUCTION PLANS
ALABAMA DR N
RESTAURANT

SECTION 32, TOWNSHIP 44, RANGE 27E
LEE COUNTY, FLORIDA

UTILITY COMPANIES

ELECTRIC:

FLORIDA POWER AND LIGHT
4840 BALLARD ROAD
FORT MYERS, FL 33905
(239) 332-9137

WASTEWATER:

FLORIDA GOVERNMENTAL
UTILITY AUTHORITY
9841 BERNWOOD PLACE DRIVE,
SUITE 120
FORT MYERS, FL 33966
(239) 368-1615

POTABLE WATER:

FLORIDA GOVERNMENTAL
UTILITY AUTHORITY
9841 BERNWOOD PLACE DRIVE,
SUITE 120
FORT MYERS, FL 33966
(239) 368-1615

TELEPHONE:

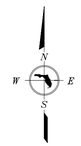
CENTURYLINK TELEPHONE
8441 LITTLETON ROAD
NORTH FORT MYERS, FL 33903
(239) 336-2031

NATURAL GAS:

TECO / PEOPLE GAS 5901
ENTERPRISE PARKWAY
FORT MYERS, FL 33905
(239) 690-5507

COMCAST CABLE

COMCAST CABLE 12641
CORPORATE LAKES DR.
FORT MYERS, FL 33913
(239) 432-9277



VICINITY MAP
SCALE: 1" = 20'

SITE DATA TABLE

SITE ADDRESS:	49 ALABAMA ROAD N, LEHIGH ACRES, FL 33936
STRAP NUMBER:	32-44-27-01-00001.0010
SITE AREA:	14,869 SF (±0.34 AC)
ZONING DESIGNATION:	C-2
FUTURE LAND USE:	INTENSIVE DEVELOPMENT
DEVELOPMENT TYPE:	RESTAURANT
CONSTRUCTION TYPE:	C.B.S
FEMA FLOOD ZONE:	'X'
BUILDING HEIGHT:	35'
LOT COVERAGE:	40% MAX

ZONING

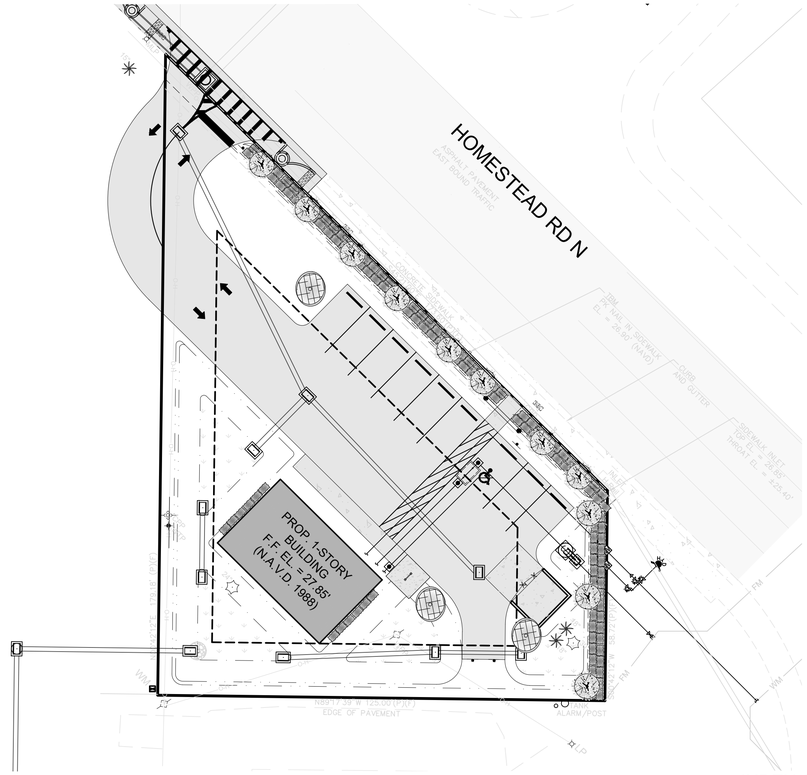
SITE:	(C-2)	(VACANT)
NORTH:	(ROW)	(HOMESTEAD RD N)
SOUTH:	(CPD)	(COMMERCIAL BUILDING)
WEST:	(CS-1)	(COMMERCIAL BUILDING)
EAST:	(ROW)	(ALABAMA RD N)

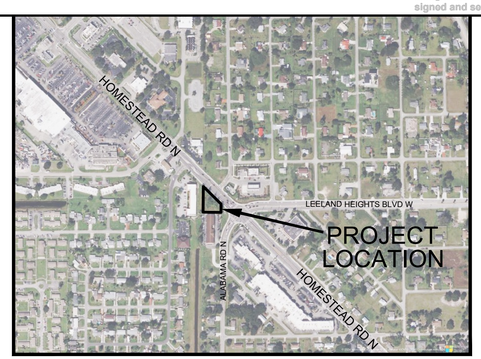
FUTURE LAND USE

SITE:	INTENSIVE DEVELOPMENT
NORTH:	INTENSIVE DEVELOPMENT
WEST:	INTENSIVE DEVELOPMENT
EAST:	INTENSIVE DEVELOPMENT
SOUTH:	INTENSIVE DEVELOPMENT

FIRE DISTRICT:
LEHIGH ACRES FIRE DISTRICT

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION





LOCATION MAP
N.T.S

BUILDING SETBACKS	REQ'D	PROV'D
NORTH (FRONT): C-1 - HOMESTEAD RD N	25'	62'
SOUTH (SIDE): CPD - COM BUILDING	15'	15.01'
EAST (FRONT): ROW - ALABAMA RD N	25'	62.67'
WEST (SIDE): CS-1 - COM BUILDING	15'	16.18'

*PER MIXED USE OVERLAY

LANDSCAPE BUFFERS*	REQ'D	PROV'D
	5'	5'
	0'	0'
	5'	5'
	0'	0'

1

BUILDING INFORMATION

BUILDING PROPOSED: 1,000 S.F.
STORIES PROPOSED: 1 STORY
USE: RESTAURANT

PARKING REQUIREMENTS

RESTAURANTS,
14 SPACES PER 1,000 S.F. OF TOTAL FLOOR AREA

1,000/1,000 X 14 SPACES = 14 SPACES
14 SPACES X 0.50 = 7 SPACES*

REQ'D. PARKING = 7 SPACES
PROP'D. PARKING = 9 SPACES
(INCLUDES 1 H/C)

*PARKING REDUCTION WITHIN MIXED-USE OVERLAY
*PARKING ACTIVITY RATE IS HIGH 1

PROJECT AREA BREAKDOWN

	SQUARE FEET	ACRES	PERCENTAGE
TOTAL	14,869	0.341	100.00%
BUILDING	1,000	0.023	6.73%
PAVEMENT/CONC.	5,972	0.137	40.16%
IMPERVIOUS	6,972	0.160	46.89%
PERVIOUS	7,897	0.181	53.11%

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES
3. AERIAL, EXIST. CONDITIONS, DEMOLITION & EROSION CONTROL PLAN
4. SITE DIMENSION PLAN
5. GRADING, PAVING & DRAINAGE PLAN
6. UTILITY PLAN
7. CROSS SECTIONS
8. GRADING, PAVING & DRAINAGE DETAILS
9A. UTILITY DETAILS
9B. UTILITY DETAILS
9C. UTILITY DETAILS (LIFT STATION)
10. LANDSCAPE, IRRIGATION & STRIPING PLAN
11. LANDSCAPE, IRRIGATION & STRIPING PLAN
12. SITE LIGHTING PLAN

CALL 48 HOURS BEFORE YOU DIG
811
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

NOTES:

ALL **EXISTING** (SURVEY) & ALL **PROPOSED** GRADE ELEVATIONS & CONTOURS SHOWN REFER TO **N.A.V.D. '88.**

THESE PLANS MAY HAVE BEEN REDUCED OR INCREASED IN SIZE BY REPRODUCTION(S). THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

ANDRES BORAL, PE, MBA
LICENSE # 80373 FBPE # 31552
711 5TH AVE SOUTH, SUITE 209, NAPLES FL 34102
ANDRES@BORALENGINEERING.COM
(P) 239-682-2059
WWW.BORALENGINEERING.COM

PROJECT: 24-154
DATE: 07/24

OWNER:
LEE BLVD HOLDINGS, LLC
15581 LAGUNA HILLS DRIVE,
FORT MYERS, FL 33908

DATE	BY	REVISION DESCRIPTION
09/26/2025	GM	REVISED PER LEE COUNTY COMMENTS

ALABAMA RD N
RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

COVER SHEET

SHEET 1 OF 12

Andres Boral, State of Florida, Professional Engineer, License No. 80373. This item has been electronically signed and sealed by Andres Boral, PE on the date indicated here using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

1

FGUA STANDARD PLAN NOTES:

1. ALL CONSTRUCTION SHALL MEET LEE COUNTY STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. AN FGUA REPRESENTATIVE IS TO BE PRESENT DURING CONNECTIONS TO EXISTING FACILITIES WITH 72 HOUR NOTIFICATION.
3. ALL UTILITIES WITHIN THE PROPERTY LINES WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER.
4. ANY UTILITIES (PIPES, VALVES, AND ASSOCIATED HARDWARE) TO BE CONVEYED TO FGUA WILL BE LOCATED WITHIN AN EXISTING PUBLIC UTILITY EASEMENT, RIGHT-OF-WAY (ROW) AND/OR A DEDICATED FGUA UTILITY EASEMENT.
5. ANY REAL PROPERTY (LIFT STATIONS, PUMP HOUSES, WELLS, ETC.) WILL NOT BE LOCATED WITHIN THE ROW AND WILL BE CONVEYED TO FGUA VIA A SPECIFIC WARRANTY DEED.
6. LOW PRESSURE AIR TEST, AND VIDEO INSPECTION ARE REQUIRED FOR THE GRAVITY COLLECTION SYSTEM - WATER SYSTEMS ARE TESTED TO A MINIMUM OF 150 PSI FOR 2 HOUR DURATION AS PER AWWA C 600 STANDARDS. FIRE SYSTEMS ARE NOT THE FGUA RESPONSIBILITY.
7. INSTALL 10 GAUGE TRACER WIRE ON ALL MAIN PIPELINES. WIRE TO EXTEND INTO EACH VALVE BOX WITH SUFFICIENT EXCESS TO BRING WIRE 3 FEET ABOVE FINISH GRADE.
8. ALL WATER AND/OR WASTEWATER LINES PASSING UNDER PAVED AREAS WILL BE CONSTRUCTED WITH A CASING AND SHALL APPLY WITH LOCAL OR STATE DOT STANDARDS.
9. A REDUCED PRESSURE ZONE (RPZ), BACKFLOW PREVENTION ASSEMBLY (BFP) IS REQUIRED. ACCEPTABLE MODELS FEBCO 825Y, WATTS 909, WILKINS 975XL, OR CONBRACO 400.
10. FULL CIRCLE STAINLESS STEEL TAPPING SADDLE SLEEVE WITH RESILIENT SEATED TAPPING VALVE FOR PROPOSED WATER AND FORCE MAIN CONNECTIONS TO BE USED.
11. WATER TAPPING SADDLES TO BE DOUBLE STRAP BRASS OR DUCTILE IRON OR EPOXY COATED STEEL WITH STAINLESS STEEL HARDWARE. TIE STRAPS AND BOLTS SHALL BE CORROSION RESISTANT ALLOY STEEL.
12. ALL FIRE FLOW LINES WILL RUN SEPARATE FROM THE DOMESTIC WATER MAINS AND HAVE A FIRE DETECTION METER AND A FIRE LINE BACKFLOW PREVENTION ASSEMBLY (BFP) ASSEMBLY SHALL INCLUDE A LOW FLOW BY-PASS METER W/RPZ.
13. MANHOLE FRAMES & COVERS, AND CLEAN-OUT CAPS ARE TO BE WATER TIGHT, IF NEEDED EXISTING MANHOLE TOPS ARE TO BE ADJUSTED TO PROPOSED GRADE.
14. INFLOW PROTECTION DISHES ARE REQUIRED FOR ALL MANHOLES; STAINLESS STEEL IN PAVED ARES, ABS IN UNPAVED ARES.
15. A CLEAN-OUT SHALL BE PROVIDED AT THE ROW/PL FOR ALL SERVICE CONNECTIONS.
16. THE FGUA SHALL OWN AND MAINTAIN ALL WATER SERVICE LINES UP TO THE POINT OF CONNECTION. ALL WATER MAINS SHALL BE A MINIMUM OF EIGHT INCHES (8") IN DIAMETER AND ALL SUCH WATER MAINS SHALL BE CONSTRUCTED IN DEDICATED RIGHTS-OF-WAY OR APPROPRIATE UTILITY EASEMENTS DEDICATED TO THE FGUA.
17. ALL SEWER FORCE MAIN LINES AND GRAVITY SERVICE LINES ACCEPTED MUST BE AT LEAST FOUR INCHES (4") IN DIAMETER AND EIGHT INCHES (8"), RESPECTIVELY, EXCEPT LATERAL SEWER SERVICE LINES WHICH SHALL BE NO LESS THAN SIX INCHES (6") IN DIAMETER AND ACCEPTED BY THE FGUA TO A CLEAN-OUT LOCATED ON THE EDGE OF THE RIGHT-OF-WAY OR AN EASEMENT.
18. A BALL CHECK VALVE FOLLOWED BY A PLUG VALVE WILL BE INSTALLED ON FORCE MAINS LOCATED IN A PUE OR R/W AT THE PROPERTY LINE DISCHARGING FROM PRIVATELY OWNED LIFT STATIONS CONNECTING INTO THE UTILITY MAINS.
19. CONNECTION TO EXISTING MANHOLES AND/OR LIFT STATIONS SHALL BE BY CORE BORE WITH KOR-N-SEAL CONNECTORS.
20. ALL CONNECTIONS SHALL BE PERFORMED BY A LICENSED, UNDERGROUND CONTRACTOR, WITH ADVANCE NOTIFICATION (72 HOURS) TO THE FGUA INSPECTOR.
21. BACKFLOW PREVENTION DEVICES SHALL BE PRIVATELY OWNED AND MAINTAINED. BFPDs SHOULD BE LOCATED OUTSIDE OF ANY FGUA EASEMENT OR ROW/PUBLIC UTILITY EASEMENT. IT IS THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN THE DEVICE AND PROVIDE ANNUAL TESTING CERTIFICATIONS TO THE FGUA.
22. ALL WATER AND WASTEWATER INFRASTRUCTURE ON PRIVATE PROPERTY WILL BE OWNED, OPERATED AND MAINTAINED BY OWNER UNLESS IN AN EASEMENT DEDICATED TO THE FGUA.

GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL BE REQUIRED TO MEET ALL "MAINTENANCE OF TRAFFIC" REQUIREMENTS AS PRESCRIBED IN THE CURRENT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", F.H.W.A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, CURRENT EDITION, AND ALL APPLICABLE SECTIONS OF THE ROAD AND TRAFFIC DESIGN STANDARDS, FLORIDA DEPARTMENT OF TRANSPORTATION, CURRENT EDITION.
2. FINAL ALIGNMENTS, MATERIALS, COLORS, FINISHES, FOR PEDESTRIAN HARDSCAPE AREAS MAY BE ADJUSTED ON SITE BY OWNER OR OWNER REPRESENTATIVE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO BEGINNING CONSTRUCTION. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY UTILITY RELOCATION WITH THE UTILITY COMPANY SUCH THAT ALL CONFLICTS ARE RESOLVED.
4. THE CONTRACTOR SHALL COMPLY WITH CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) SPECIFICATIONS. SPECIFICALLY IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE "SPECIFICATIONS FOR ROAD BRIDGE CONSTRUCTION" AND THE "ROAD AND TRAFFIC DESIGN STANDARDS", UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL VERIFY ALL BUILDING DIMENSIONS WITH THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. ANY DISCREPANCY NOT CALLED TO THE ENGINEER'S ATTENTION PRIOR TO THE ACCOMPLISHMENT OF THE WORK SHALL BE CORRECTED BY AND AT THE CONTRACTOR'S EXPENSE.
6. IF ANY WELLS ARE LOCATED DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ENGINEER.
7. ALL PRACTICABLE AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS, SWALES AND OUTFALLS. (REFER TO EROSION CONTROL PLAN)
8. WHERE THE NEW PAVEMENT IS DISCONTINUED IT SHALL BE FLUSH WITH OR HAVE A SMOOTH TRANSITION WITH ADJACENT PAVEMENT.
9. ALL INVERT ELEVATIONS NOTED FOR DRAINAGE STRUCTURES ARE FLOW LINE ELEVATIONS.
10. ALL EXISTING AND PROPOSED GRADES SHOWN REFER TO N.A.V.D. 1988.
11. AT THE CONTRACTOR'S EXPENSE, ALL FRAMES, COVERS, VALVE BOXES, METER BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION.
12. ANY SURPLUS MATERIAL WILL REMAIN THE PROPERTY OF THE OWNER; AND THE CONTRACTOR, AT HIS EXPENSE SHALL STOCKPILE THE SURPLUS MATERIAL AS DIRECTED BY OWNER.
13. THE LIMITS OF CONSTRUCTION SHALL MATCH THE LIMITS OF CLEARING & GRUBBING UNLESS OTHERWISE NOTED ON PLANS.
14. ALL UTILITY WORKMANSHIP AND MATERIALS FOR THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND STANDARDS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), THE STATE OF FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES (HRS) UNLESS OTHERWISE NOTED.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY THE SIZE, DEPTH AND LOCATION OF ALL UTILITIES IN THE FIELD WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION. ANY UTILITIES THAT ARE DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED OR REPLACED AT HIS EXPENSE. ANY DISCREPANCY NOT CALLED TO THE ENGINEER'S ATTENTION PRIOR TO THE ACCOMPLISHMENT OF THE WORK SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. THE ENGINEER AND/OR OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THE SAME.
16. ALL DISTURBED AREAS WITHIN PROJECT SITE SHALL BE REGRADED AS REQUIRED AND STABILIZED WITH SOD. VACANT LOT AREAS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE SEEDED & MULCHED.
17. CONCRETE SIDEWALK: USE CLASS I, 3000 PSI (MINIMUM) CONCRETE. APPLY A BROOM FINISH AND MAKE VERTICAL SAW CUTS AT 5' ON CENTER AT A DEPTH OF 1/4 OF THE SLAB THICKNESS. PROVIDE PRE-FORMED EXPANSION JOINTS AT 100' ON CENTER.
18. ALL HANDICAP SPACES, RAMPS, AND ACCESS AREA'S SHALL COMPLY IN STRICT ACCORDANCE WITH THE "AMERICAN DISABILITY ACT" (ADA) (28 CFR PART 36), AND "ACCESSIBILITY BY HANDICAPPED PERSONS" CHAPTER 553, PART V, FLORIDA STATUES. ANY DISCREPANCY SHALL BE CALLED TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION.
19. CONCRETE CURB & GUTTER AND STRAIGHT CURB: USE CLASS I, 3000 PSI (MINIMUM) CONCRETE. MAKE VERTICAL SAW CUTS EVERY 10' ON CENTER WITH PRE-MOLDED EXPANSION JOINTS EVERY 100' ON CENTER.
20. IMPROVEMENTS TO THIS SITE WERE DESIGNED AND ARE TO BE CONSTRUCTED IN COMPLIANCE WITH THE ADA ACCESSIBILITY GUIDELINES TO THE EXTENT REQUIRED UNDER THE AMERICANS WITH DISABILITES ACT OF 1990 (ADA)

GROUNDWATER & SURFACE WATER NOTE:

1. THE ENGINEER OF RECORD HAS ANALYZED THAT NO NEGATIVE IMPACTS TO GROUNDWATER AND SURFACE WATER ARE ANTICIPATED.

MISC. NOTES

1. FINAL ALIGNMENTS, MATERIALS, COLORS, FINISHES, FOR PEDESTRIAN HARDSCAPE AREAS MAY BE ADJUSTED ON SITE BY OWNER OR OWNER REPRESENTATIVE.
2. THE SIZES AND LOCATIONS OF THE UNDERGROUND PRESSURE MAINS, STORM DRAINS, GRAVITY MAINS, ELECTRIC CONDUITS, SLEEVES, TRANSFORMERS, ENCLOSURES, LIGHT POLES AND OTHER APPURTENANCES ARE BASED UPON THE BEST INFORMATION OBTAINED BY THE ENGINEER AT THE TIME OF DESIGN. THE CONTRACTOR SHALL VERIFY ACTUAL LOCATION, SIZE AND DEPTH OF ALL UTILITIES DESCRIBED ABOVE PRIOR TO INSTALLATION OF THEIR FACILITIES.

RIGHT-OF-WAY CONSTRUCTION NOTES:

1. CONSTRUCTION OF NEW DRIVEWAYS SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF LEE COUNTY AND FLORIDA DEPARTMENT OF TRANSPORTATION AND OTHER STANDARDS REFERENCED HEREIN.
2. PRIOR TO COMMENCING ANY WORK WITHIN THE COUNTY RIGHT-OF-WAYS, THE CONTRACTOR SHALL SET-UP A PRE-CONSTRUCTION MEETING WITH THE COUNTY INSPECTORS. COUNTY REQUIREMENTS FOR MATERIAL TEST REPORTS AND PROCEDURES SHOULD BE VERIFIED BY THE CONTRACTOR AND THE REPORTS SHALL BE AVAILABLE TO THE INSPECTORS AT THE TIME OF INSPECTION. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE INSPECTIONS AND OBTAIN APPROVAL PRIOR TO PLACEMENT OF CONCRETE AND/OR ASPHALT WITHIN THE RIGHT-OF-WAYS. PRIOR TO THE ENGINEERING RIGHT-OF-WAY FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE IN-PLACE PAVEMENT SECTION CORE SAMPLES FOR ALL PAVEMENT WITHIN THE COUNTY RIGHT-OF-WAYS.
3. PRIOR TO WORKING WITHIN THE RIGHT-OF-WAYS, THE CONTRACTOR IS REQUIRED TO OBTAIN ALL THE NECESSARY RIGHT-OF-WAY PERMITS AND PROVIDE THE NECESSARY WORK ZONE CONTROLS AND SAFETY REQUIREMENTS. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO PREPARE A TRAFFIC MAINTENANCE PLAN AND OBTAIN APPROVAL BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.
4. THE CONTRACTOR SHALL NOTE THAT THE DESIGN ELEVATIONS SHOWN ON THE PLANS WITHIN THE RIGHT-OF-WAY SHOWN MAY DIFFER FROM THE COUNTY'S MASTER DESIGN PLAN. ALL PROPOSED GRADES IN THE ALLEYS, DRIVEWAYS AND STREET RIGHTS-OF-WAY SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
5. PRIOR TO CONSTRUCTION NEAR OR ADJACENT TO TRAFFIC SIGNALS, THE CONTRACTOR SHALL NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION TRAFFIC SIGNAL MAINTENANCE DIVISION TO ENSURE THE PROPER OPERATION OF THE SIGNAL AND OTHER APPURTENANCES. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF SIGNAL BOXES AND LOOPS (IF ANY) WITH F.D.O.T.
6. ALL BROKEN OR VERTICALLY MISALIGNED CURB/SIDEWALK DIRECTLY ADJACENT TO THE SITE THAT DO NOT MEET A.D.A. MINIMUM REQUIREMENTS SHALL BE REPLACED. CONCRETE FORMS ARE REQUIRED ON BOTH SIDES OF REPLACEMENT CURBS.
7. ANY WORK OR MATERIALS THAT DO NOT CONFORM TO THE SPECIFICATIONS CONTAINED HEREIN OR ANY WORK PERFORMED IN THE CITY R.O.W. WITHOUT A COUNTY INSPECTION IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL RESTORATION IN THE CITY RIGHT-OF-WAYS DISTURBED OR DAMAGED DURING CONSTRUCTION INCLUDING SWALE RE-GRADING (REFER TO EROSION CONTROL PLAN AND GENERAL CONSTRUCTION NOTES).
9. ALL COUNTY TRAFFIC SIGNS AND MAILBOXES IN OR ADJACENT TO THE RIGHT-OF-WAY THAT MUST BE RELOCATED SHALL BE COORDINATED WITH THE COUNTY TRAFFIC DEPARTMENT. TEMPORARY MAILBOXES SHALL BE MADE AVAILABLE TO THE OWNER(S) AND POSTAL DELIVERY SERVICE DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL COORDINATE THE TEMPORARY AND FINAL MAILBOX LOCATIONS WITH THE LOCAL POST OFFICE. THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY SITE DEVELOPMENT AND REVIEW DIVISION FOR THE INSTALLATION, INSPECTIONS AND SHALL PROVIDE SURVEY LAYOUT FOR THE RE-ROUTING OF COUNTY DRAINAGE PIPES AND STRUCTURES (IF ANY).

LEGEND

- MH-5 — MANHOLE I.D.
- PROPOSED FORCE MAIN
- PROPOSED FIRE HYDRANT ASSEMBLY W/PIPE BOLLARDS (TYP)
- PROPOSED WATER MAIN W/ METER AND RPBFP
- PROPOSED SANITARY SEWER MAIN W/MANHOLE
- PROPOSED 6" SEWER LATERAL W/CLEAN-OUT
- TRANSFORMER PAD (BY OTHERS)
- EXISTING ASPHALT PAVEMENT
- PROPOSED CONCRETE SURFACE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED BUILDING
- PROPOSED COVERED PARKING STRUCTURE
- LIGHT POLE (BY OTHERS)
- EXIST. STORM DRAIN & INLET
- S-2 — INLET STRUCTURE I.D.
- PROP. STORM DRAIN & INLET
- PROP. MITERED END SECTION
- X 25.05 — EXISTING ELEVATION
- X 25.75 — PROPOSED ELEVATION
- DRAINAGE FLOW ARROW
- BERM/DETENTION AREAS
- ROCK BOULDER RIP-RAP OVER FILTER FABRIC
- DRY DETENTION/RETENTION

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
811
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PROJECT:	24-154
DATE:	07/24

ANDRES BORAL, PE, MBA
LICENSE # 80373 FBPE # 31552
711 5TH AVE SOUTH, SUITE 209, NAPLES FL 34102
ANDRES@BORALENGINEERING.COM
(P) 239-682-2509

BORAL ENGINEERING
WWW.BORALENGINEERING.COM

OWNER:
LEE BLVD HOLDINGS, LLC
15581 LAGUNA HILLS DRIVE,
FORT MYERS, FL 33908

DATE	BY	REVISION DESCRIPTION
09/26/2025	GM	REVISED PER LEE COUNTY COMMENTS

ALABAMA RD N RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

GENERAL NOTES

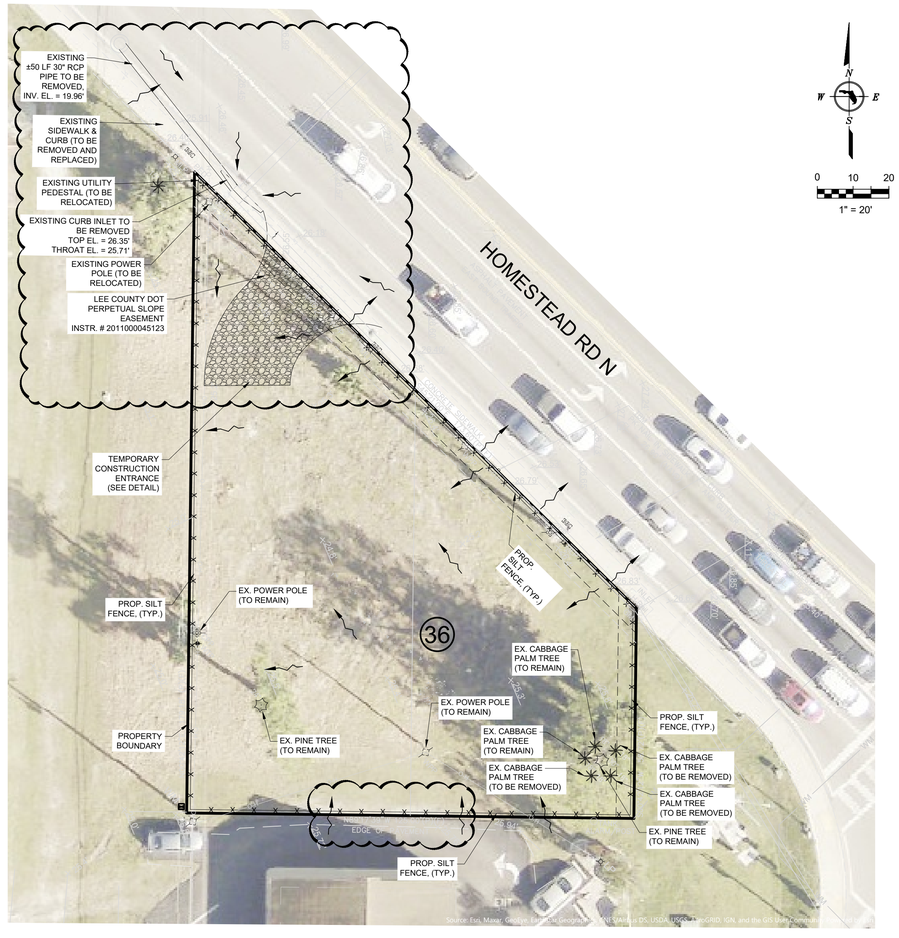
SHEET 2 OF 12

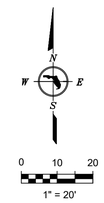
Andres Boral, State of Florida, Professional Engineer, License No. 80373. This item has been electronically signed and sealed by Andres Boral, PE on the date indicated here using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL ADHERE TO THE SEQUENCE OF OPERATIONS FOR EROSION CONTROL IMPLEMENTATION HERON. ANY DEVIATION FROM THIS SEQUENCE DEEMED NECESSARY BY THE CONTRACTOR SHALL BE APPROVED BY THE OWNER.
2. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED WITH THE CONSTRUCTION ACTIVITIES RELATED TO EROSION CONTROL AS SHOWN OR NOTED HEREON SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), AS WELL AS THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR THIS SITE, AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. ALL WASH WATER SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT BETWEEN WASH WATER POLLUTANTS AND STORM RUNOFF DISCHARGED FROM THIS SITE.
4. OIL AND GREASE ABSORBING MATERIALS SHALL BE READILY AVAILABLE ON-SITE AND SHALL BE PROMPTLY USED TO CONTAIN AND/OR CLEAN UP ALL FUEL OR CHEMICAL SPILLS OR LEAKS.
5. DUST CONTROL SHALL BE ACCOMPLISHED BY WATERING DRY, EXPOSED AREAS ON A REGULAR BASIS. SPRAYING OF PETROLEUM BASED OR TOXIC LIQUIDS FOR THIS IS PROHIBITED.
6. ALL RIGHT-OF-WAYS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE PERMANENTLY SODDED PRIOR TO THE COMPLETION OF THE PROJECT.
7. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION AREAS HAVE PERMANENTLY CEASED SHALL BE PERMANENTLY SEEDED OR SODDED, AS SHOWN ON THE ATTACHED PLAN, WITHIN FOURTEEN DAYS.
8. ALL VEHICLES SHALL BE CLEANED AT THE CONSTRUCTION SITE PRIOR TO EXITING.
9. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED ONTO ADJACENT ROADWAYS BY VEHICLES EXITING THE SITE SHALL BE CLEANED OR REMOVED IMMEDIATELY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPT REMOVAL OF ALL ACCUMULATED SILT IN THE STORM SEWER SYSTEM AND ALONG SILT FENCES.
11. SILT FENCES SHALL BE PLACED AROUND ANY STOCKPILES USED ON THIS SITE.
12. ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED TO ENSURE COMPLIANCE WITH THE U.S.E.P.A. AND FLORIDA DEP STORM WATER POLLUTION REGULATIONS SHALL BE IMPLEMENTED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
13. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE WITHIN THIRTY DAYS AFTER STABILIZATION OF ALL SURFACES.
14. THE CONTRACTOR SHALL ASSUME LIABILITY FOR DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT-OF-WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION CONTROL PROCEDURES SHOWN AND NOTED IN THE PLANS.
15. WHENEVER DIRT, ROCK OR OTHER MATERIALS ARE EXPORTED FOR USE OFF OF THE PRIMARY CONSTRUCTION SITE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT EPA STORMWATER PERMITTING REQUIREMENTS ARE MET. PRIOR TO ANY EXPORT OF MATERIALS, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A WRITTEN AGREEMENT WITH ANY LANDOWNER WHO WILL RECEIVE EXPORTED MATERIALS, STATING THAT THE SITE WILL BE PROPERLY PERMITTED WHEN REQUIRED AND DESCRIBE THE EROSION CONTROL MEASURES WHICH WILL BE USED. AT A MINIMUM, EROSION CONTROL MEASURES MUST CONSIST OF PERIMETER CONTROLS (SYNTHETIC HAY OR SILT FENCES) ON ALL DOWNSLOPE AND SIDESLOPE BOUNDARIES OF ANY DISTURBED AREAS, PLUS PROVISIONS FOR RE-VEGETATION AFTER THE FILL MATERIALS ARE IN PLACE.
16. PRIOR TO CONSTRUCTION, FILTER FABRIC, SILT SCREENS, STRAW BALES OR OTHER APPROVED EROSION CONTROL DEVICES SHALL BE INSTALLED ACROSS THE SWALE AT THE LOWEST DISTURBED POINT TO PREVENT EROSION MATERIAL FROM LEAVING THE CONSTRUCTION AREA, INCLUDING ANY VACANT AREAS USED FOR INGRESS AND EGRESS.
17. ALL AFFECTED STORMWATER PIPES, INLETS AND CATCH BASINS SHALL BE PROTECTED BY EROSION CONTROL DEVICES TO PREVENT CONSTRUCTION RELATED EROSION MATERIAL FROM ENTERING THE STORMWATER SYSTEM.
18. THE EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION PROCESS AND SHALL REMAIN IN PLACE UNTIL STABILIZED WITH SOD AND THE VACANT AREAS ARE SEEDED AND MULCHED.
19. ALL DEWATERING SHALL BE IN ACCORDANCE WITH S.F.W.M.D. SHORT TERM DEWATERING CRITERIA.
20. PER THE SURVEY, THERE ARE NO WELLS ON SITE. IF ANY WELLS ARE LOCATED DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ENGINEER. ANY MONITORING WELLS NOT PREVIOUSLY PLUGGED ARE TO BE ABANDONED PER 62-532.500(4) REQUIREMENTS AND S.F.W.M.D. RULE 40E-3.532(3) BY A WATER WELL CERTIFIED CONTRACTOR.
21. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC R/W. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
22. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC R/W.
23. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED W/ CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION





ACTIVITY SCHEDULE:

TASK DESCRIPTION:	WEEKS 1	2	3	4	5	6	7	8	9	10	11	12
EROSION CONTROL MEASURES	X	X	X	X	X	X	X	X	X	X	X	X
CLEARING & GRUBBING		X										
ROUGH GRADING		X	X									
TEMPORARY STABILIZATION (GRASSING)			X	X								
FINAL GRADING					X	X						
BUILDING CONSTRUCTION					X	X	X	X	X	X	X	X
UTILITIES							X	X	X	X		
PAVING										X	X	
FINAL STABILIZATION (LANDSCAPING)												X

LEGEND

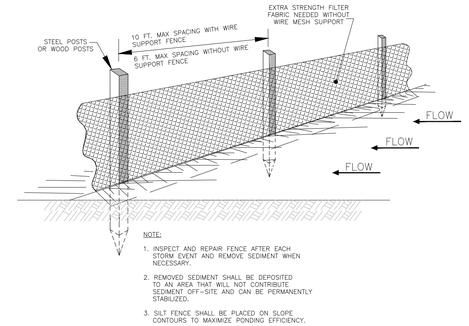
= EXISTING DRAINAGE PATTERN FLOW ARROW

F.L.U.C.C.S.

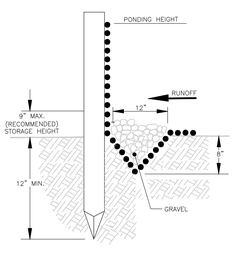
1400 COMMERCIAL & SERVICES

SOILS

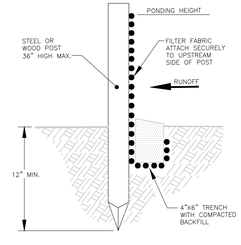
36 IMMOKALEE FINE SAND



NOTE:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



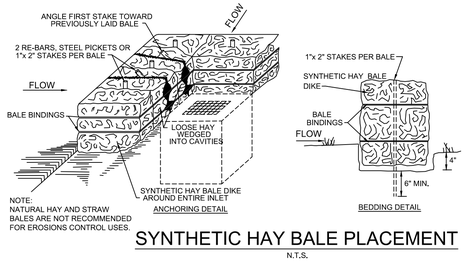
ALTERNATE DETAIL
TRENCH WITH GRAVEL



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

FILTER FABRIC SILT FENCE

N.T.S.



SYNTHETIC HAY BALE PLACEMENT

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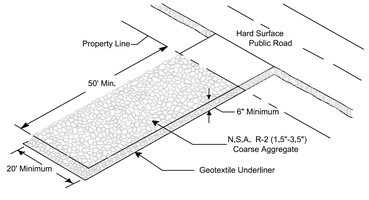


CONSTRUCTION ENTRANCE

N.T.S.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PROJECT: 24-154
DATE: 07/24

ANDRES BORAL, PE, MBA
LICENSE # 80373 FBPE # 31552
711 5TH AVE SOUTH, SUITE 209, NAPLES FL 34102
ANDRES@BORALENGINEERING.COM
(P) 239-682-2509

BORAL ENGINEERING
WWW.BORALENGINEERING.COM

OWNER:
LEE BLVD HOLDINGS, LLC.
15581 LAGUNA HILLS DRIVE.
FORT MYERS, FL 33908

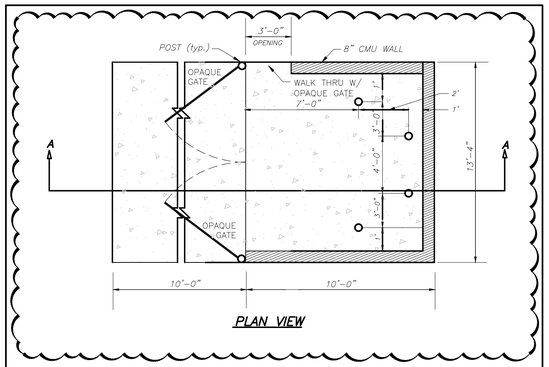
DATE	BY	REVISION DESCRIPTION
09/26/2025	GM	REVISED PER LEE COUNTY COMMENTS

ALABAMA RD N
RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

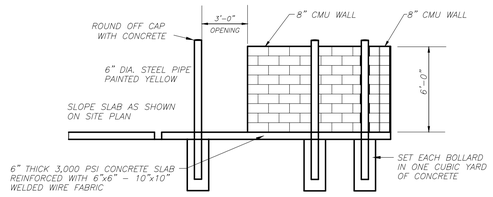
AERIAL, EXIST. CONDITIONS
DEMOLITION & EROSION CONTROL PLAN

SHEET 3 OF 12

Andres Boral, State of Florida, Professional Engineer, License No. 80373. This item has been electronically signed and sealed by Andres Boral, PE on the date indicated here using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



PLAN VIEW



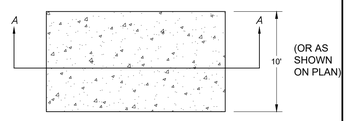
SECTION A – A

1. TOP COURSE OF BLOCK TO BE FILLED WITH MORTAR, TOWELED AND WASHED.
2. CONCRETE BLOCK TO BE PAINTED TO MATCHFACE OF THE BUILDING.
3. 22 FEET MINIMUM OVERHEAD CLEARANCE.
4. 12 FEET MINIMUM UNOBSTRUCTED ACCESS OPENING.

ENCLOSED DUMPSTER PAD w/ WALK THRU & GATE

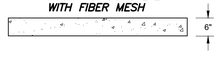
(NOTE: DUMPSTER SHOWN IS FOR 3' WALK–THRU ON LEFT SIDE. CONTRACTOR TO LOOK ON SITE PLAN TO DETERMINE WHICH SIDE OF DUMPSTER THE 3' WALK (OPENING) IS AND BUILD THE ACTUAL OPENING ON THAT SIDE. THIS DETAIL SHOULD BE USED AS A GUIDE AND "MIRROR" IMAGE OF THIS DETAIL IS TO BE USED.)

DETAIL – 20 WH20



PLAN

4000 PSI CONCRETE WITH FIBER MESH



SECTION A–A

CONCRETE DUMPSTER PAD

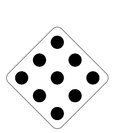
DETAIL 6 WH06

REFUSE & SOLID WASTE CALCULATIONS

COMMERCIAL/ BUSINESS BUILDING, SQ.FT.		MINIMUM SQ. FT. FOR GARBAGE COLLECTION	MINIMUM SQ. FT. FOR RECYCLABLE COLLECTION
55,200		3.12CY per 1,000SF	75%
		173	130
	TOTAL REQUIRED =	173 + 130 = 203 SQ. FT.	
	TOTAL PROVIDED =	12' x 24' = 288 SQ. FT.	

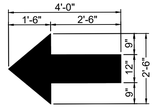
PROJECT AREA BREAKDOWN

	SQUARE FEET	ACRES	PERCENTAGE
TOTAL	14,869	0.341	100.00%
BUILDING	1,000	0.023	6.73%
PAVEMENT/CONC.	5,972	0.137	40.16%
IMPERVIOUS	6,972	0.160	46.89%
PERVIOUS	7,897	0.181	53.11%



OM4-1
N.T.S.

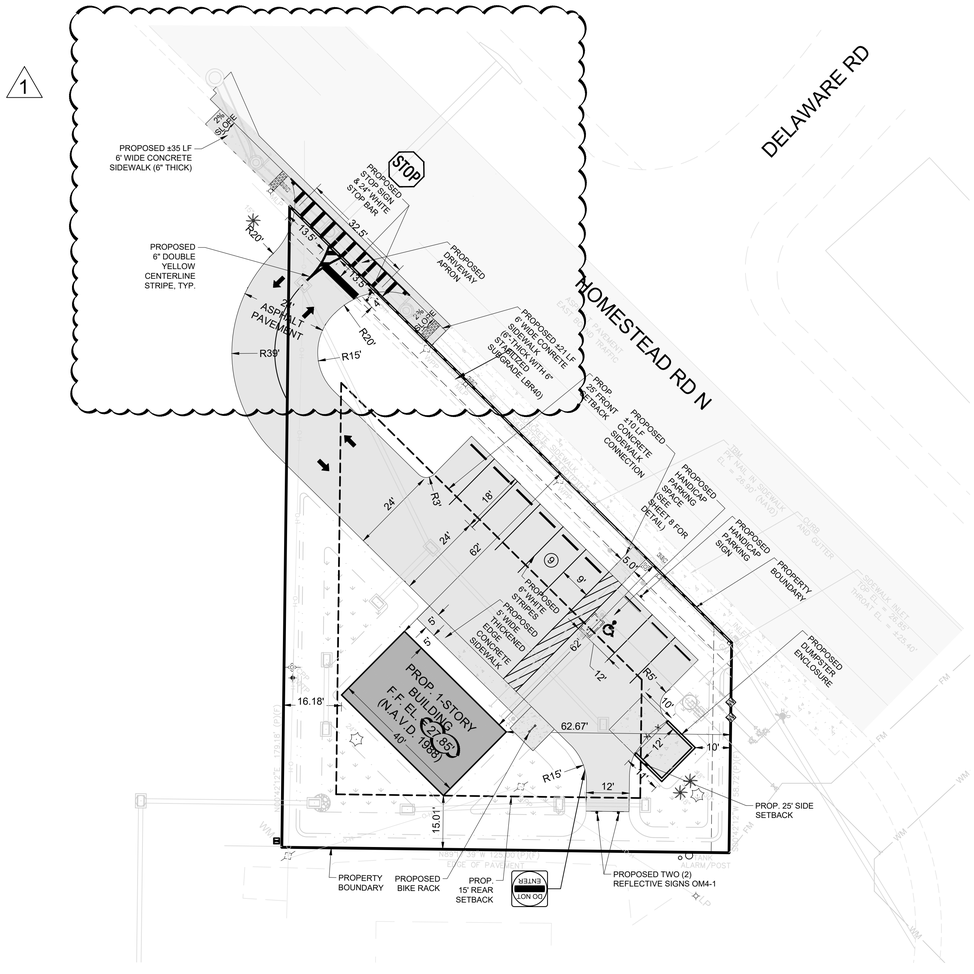
R1-1
(36"x36")
N.T.S.



(WHITE)

TYPICAL DIRECTIONAL ARROW

N.T.S.



BUILDING INFORMATION

BUILDING PROPOSED: 1,000 S.F.
STORIES PROPOSED: 1 STORY
USE: RESTAURANT

PARKING REQUIREMENTS

RESTAURANTS,
14 SPACES PER 1,000 S.F. OF TOTAL FLOOR AREA

1,000/1,000 X 14 SPACES = 14 SPACES
14 SPACES X 0.50 = 7 SPACES*

REQ'D. PARKING = 7 SPACES
PROP'D. PARKING = 9 SPACES
(INCLUDES 1 H/C)

*PARKING REDUCTION WITHIN MIXED-USE OVERLAY

SIGN INSTALLATION DETAILS

ALL SIGN PANELS INSTALLED TO BE OF GRADE 5052 H38 ALUMINUM MATERIAL WITH A THICKNESS OF .080 INCHES (2.0 MM) OR GREATER.

ALL SIGNS SHALL HAVE THE SHAPE AND SIZE AS SPECIFIED IN THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SIGN POST SHALL BE A MINIMUM OF 14 GAUGE STEEL, 2" SQUARE WITH A GALVANIZED COATING.

THE SIGN POST OR SLEEVE SHALL BE INSTALLED A MINIMUM OF 30" BELOW THE FINISHED GRADE.

WHERE PARKING OR PEDESTRIAN MOVEMENTS OCCUR, THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE AT LEAST 2.1 M (7 FT) HIGH.

THE BOTTOM OF A SIGN SHALL BE A MAXIMUM OF 8 FEET HIGH MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT.

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION

LEE PLAN CONSISTENCY

THE PROPOSED DEVELOPMENT IS CONSISTENT WITH THE LEE PLAN INCLUDING SITE LOCATION CRITERIA.

THE PROPOSED DEVELOPMENT IS CONSISTENT WITH THE LEE PLAN ACREAGE ALLOCATION TABLE AND DOES NOT EXCEED THE COMMERCIAL ACREAGE REMAINING.

ADA ACCESSIBILITY GUIDELINES

THE PROPOSED SITE DESIGNED AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT OF 1990 PER LCLDC SECTION 10-1 AND 10-251.

PARKING LOTS/SPACE DESIGN

REQUIRED TWO WAY AISLE WIDTH: 24'
PROVIDED TWO WAY AISLE WIDTH: 24'
REQUIRED PARKING SPACE WIDTH/DEPTH: 9'/18'
PROVIDED PARKING SPACE WIDTH/DEPTH: 9'/18'
REQUIRED H/C SPACE WIDTH/DEPTH: 12'/18'
PROVIDED H/C SPACE WIDTH/DEPTH: 12'/18'

PARKING LOT LIGHTING

THE PARKING LOT WILL BE USED AT NIGHT. PLEASE SEE SITE LIGHTING PLAN (SHEET 12).

PARKING LOT ENTRANCE

THE PARKING LOT ENTRANCE WIDTH AT THE PROPERTY LINE IS:
MINIMUM: 24', MAXIMUM: 35'
THE PROPOSED PARKING LOT ENTRANCE WIDTH AT THE PROPERTY LINE IS 24' AND IS IN COMPLIANCE.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
811
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PROJECT: 24-154
DATE: 07/24

ANDRES BORAL, PE, MBA
LICENSE # 80373 FBPE # 31552
711 5TH AVE SOUTH, SUITE 209, NAPLES FL 34102
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OWNER:
LEE BLVD HOLDINGS, LLC.
1550 LAGUNA HILLS DRIVE,
FORT MYERS, FL 33908

DATE	BY	REVISION DESCRIPTION
09/26/2025	GM	REVISED PER LEE COUNTY COMMENTS

ALABAMA RD N RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

SITE DIMENSION PLAN

SHEET 4 OF 12

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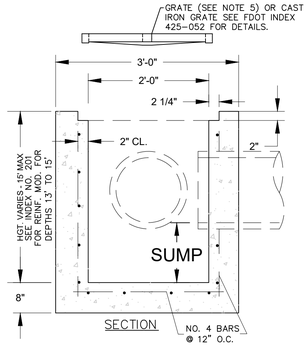
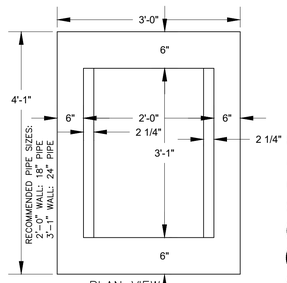
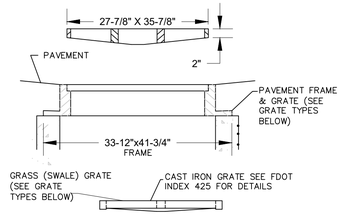


TYPE 'C' INLET
N.T.S.



RECOMMENDED MAXIMUM PIPE SIZES:
2'-0" WALL-18" PIPE
3'-1" WALL-24" PIPE

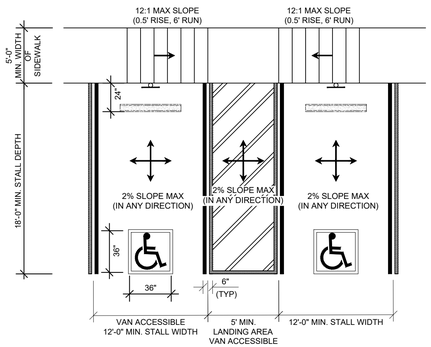


OPTIONAL GRATE TYPES:
USE USF GRATE #6212 AND FRAME #4160 IN PAVEMENT AREAS
USE USF GRATE #6210 IN GRASS AREAS
USE USF GRATE #6209 LONG SPAN IN GRASS AREAS

INLET TYPE C
FRAME & GRATE DETAIL
N.T.S.

STANDARD INLET NOTES:

1. REFER TO FDOT STANDARD INDEX NO. 425 FOR ADDITIONAL AND SUPPLEMENTARY DETAILS.
2. STRUCTURES MAY BE CAST IN PLACE OR PRECAST WITH CLASS I (MIN 3000 PSI) CONCRETE PER FDOT SECTION 425. CONCRETE AS SPECIFIED BY ASTM C-478 (MIN 4000 PSI) MAY BE USED IN PRECAST ITEMS MANUFACTURED IN PLANTS AS SPECIFIED IN FDOT STANDARD INDEX NO. 201.
3. R.C.P. SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO F.D.O.T. SEC. 425.
4. PLACE SOD 4' ON ALL SIDES OF INLET IN GREEN AREAS UNLESS OTHERWISE NOTED.
5. ALL INLET GRATES SHALL BE COVERED WITH FILTER FABRIC DURING CONSTRUCTION.
6. A 2' SUMP SHALL BE REQUIRED WHERE SHOWN



ACCESSIBLE STALL GRADING DETAIL
N.T.S.

NOTE: VERTICAL ACCESSIBLE SIGN DOES NOT HAVE TO BE POLE-MOUNTED AND MAY BE MOUNTED TO THE BUILDING FASCIA INSTEAD.

ADA PARKING

PROPOSED ADA PARKING 2%
MAX SLOPE ALL DIRECTIONS

SURFACE WATER MGMT. ELEVATIONS

PEAK STAGES PER SURFACE WATER MGMT. CALCULATIONS:

100 YR 72 HR = 26.92' NAVD
25 YR 72 HR = 25.87' NAVD
5 YR 24 HR = 25.30' NAVD

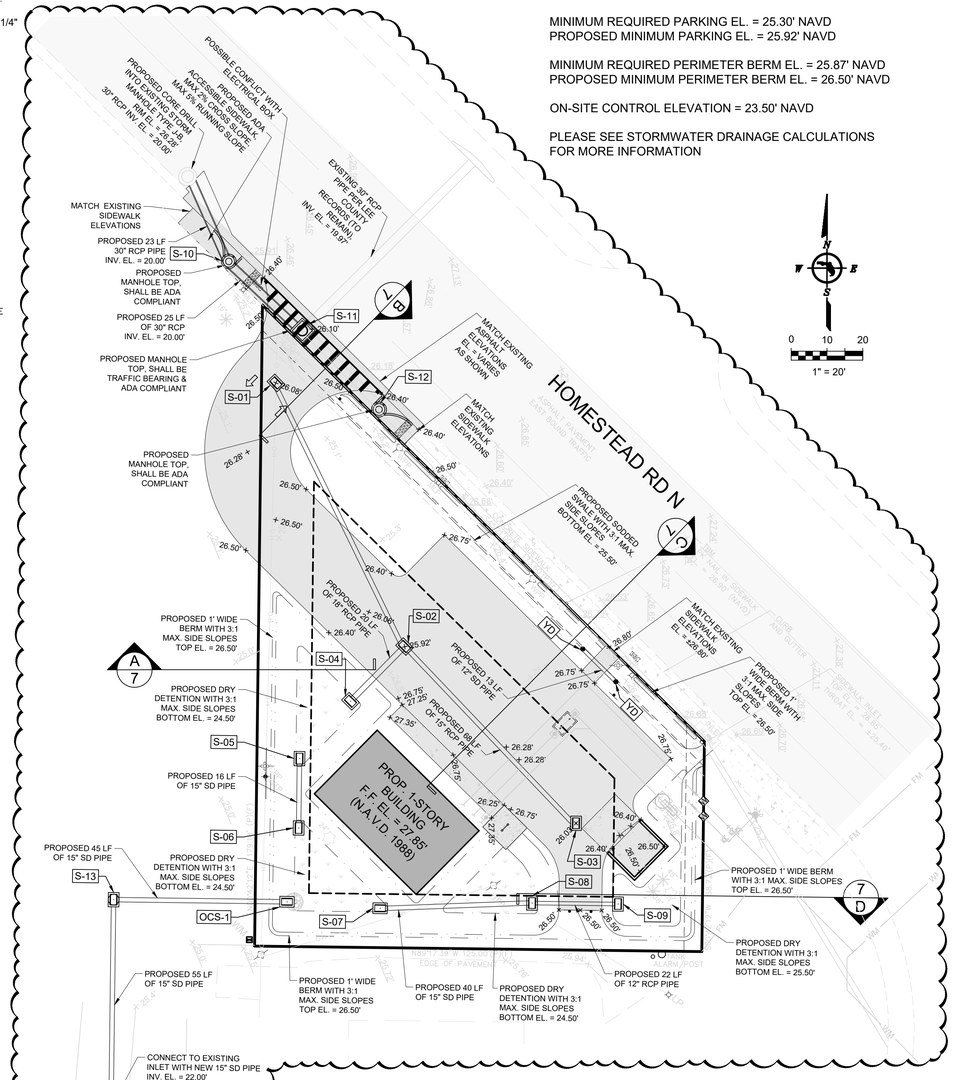
MINIMUM REQUIRED F.F.E. = 26.92' NAVD
PROPOSED F.F.E. = 27.50' NAVD

MINIMUM REQUIRED PARKING EL. = 25.30' NAVD
PROPOSED MINIMUM PARKING EL. = 25.92' NAVD

MINIMUM REQUIRED PERIMETER BERM EL. = 25.87' NAVD
PROPOSED MINIMUM PERIMETER BERM EL. = 26.50' NAVD

ON-SITE CONTROL ELEVATION = 23.50' NAVD

PLEASE SEE STORMWATER DRAINAGE CALCULATIONS FOR MORE INFORMATION



STRUCTURE TABLE:

OCS-1
(OUTFALL CONTROL STRUCTURE)
PROP. MODIFIED TYPE 'C' INLET
RIM EL. = 26.30' NAVD
INV. EL. = 23.50' (3"Ø BLEEDER)
INV. EL. = 23.50' (15" SD)
SUMP EL. = 21.50' NAVD

S-01
PROP. TYPE 'C' INLET
GRATE EL. = 26.08'
INV. EL. = 23.00' (15" RCP)

S-02
PROP. TYPE 'C' INLET
GRATE EL. = 25.92'
INV. EL. (N) = 23.00' (15" RCP)
INV. EL. (W) = 23.00' (18" RCP)
INV. EL. (S) = 23.00' (15" RCP)

S-03
PROP. TYPE 'C' INLET
GRATE EL. = 26.03'
INV. EL. = 23.00' (15" RCP)

S-04
PROP. TYPE 'C' INLET (BUBBLE-UP)
GRATE EL. = 25.50'
INV. EL. = 22.50' (18" RCP)

S-05
PROP. TYPE 'C' INLET (BUBBLE-UP)
GRATE EL. = 25.50'
INV. EL. = 22.50' (15" SD)

S-06
PROP. TYPE 'C' INLET (BUBBLE-UP)
GRATE EL. = 25.50'
INV. EL. = 22.50' (15" SD)

S-07
PROP. TYPE 'C' INLET (BUBBLE-UP)
GRATE EL. = 25.50'
INV. EL. = 22.50' (15" SD)

S-08
PROP. TYPE 'C' INLET (BUBBLE-UP)
GRATE EL. = 25.50'
INV. EL. (W) = 22.50' (15" SD)
INV. EL. (E) = 22.50' (12" RCP)

S-09
PROP. TYPE 'C' INLET (BUBBLE-UP)
RIM EL. = 26.00'
INV. EL. = 23.00' (12" RCP)

YD
PROP. 18" YARD DRAIN
GRATE EL. = 25.75'
INV. EL. = 24.00' (12" SD)

S-10
TYPE '2' INLET FDOT INDEX 210
ADA COMPLIANT TOP
RIM EL. = 26.40'
INV. EL. (W) = 20.00' (30" RCP)
INV. EL. (E) = 20.00' (30" RCP)

S-11
PROP. JUNCTION BOX
TRAFFIC BEARING ADA COMPLIANT TOP
RIM EL. = 26.10'
INV. EL. (W) = 20.00' (30" RCP)
INV. EL. (E) = 20.10' (24" RCP)
INV. EL. (N) = 19.97' (30" RCP)

S-12
PROP. TYPE '1' INLET FDOT INDEX 210
ADA COMPLIANT TOP
RIM EL. = 26.45'
INV. EL. (W) = 20.10' (24" RCP)
INV. EL. (E) = 20.09' (24" RCP)

S-13
PROP. JUNCTION BOX
RIM EL. = 25.50'
INV. EL. (E) = 22.50' (15" SD)
INV. EL. (S) = 22.50' (15" SD)

WATER QUALITY CALCULATIONS:

1. First inch of run-off:
   1.0 in. x 14,869 S.F. x 1 ft. / 12 in. = 1,239 C.F.
2. 2.5 in. times percent imperviousness:
   a. 14,869 S.F. - 1,000 S.F. (Roofs) = 13,869 S.F. site area for water quality
   b. 13,869 S.F. - 7,897 S.F. (Green Area) = 5,972 S.F. of impervious area
   c. 5,972 S.F. / 13,869 S.F. = 43.10 % impervious for water quality
   d. 2.5 in. x 0.431 = 1.08 inches to be treated
   e. 1.08 in. x 14,869 S.F. x 1 ft. / 12 in = 1,334 C.F.

Therefore, 1,334 C.F. controls for water quality.

All proposed retention areas will be dry detention; thus additional pre-treatment is not required.

1,334 C.F. (0.031 Ac.-Ft.) Required for Water Quality provided below elevation 25.50' N.A.V.D.

PROJECT AREA BREAKDOWN

	SQUARE FEET	ACRES	PERCENTAGE
TOTAL	14,869	0.341	100.00%
BUILDING	1,000	0.023	6.73%
PAVEMENT/CONC.	5,972	0.137	40.16%
IMPERVIOUS	6,972	0.160	46.89%
PERVIOUS	7,897	0.181	53.11%

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

NOTES:

1. ALL CRITICAL SPOT GRADES ALONG CURBS ARE **BOTTOM OF CURB** ELEVATIONS UNLESS OTHERWISE SPECIFIED.
2. ALL EXISTING & PROPOSED GRADE ELEVATIONS SHOWN REFER TO N.A.V.D.
3. THESE PLANS MAY HAVE BEEN REDUCED OR INCREASED IN SIZE BY REPRODUCTION(S). THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

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WWW.BORALENGINEERING.COM

OWNER:
LEE BLVD HOLDINGS, LLC.
15581 LA CANA HILLS DRIVE,
FORT MYERS, FL 33908

DATE	BY	REVISION DESCRIPTION
09/25/2025	GM	REVISED PER LEE COUNTY COMMENTS

ALABAMA RD N
RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

GRADING, PAVING & DRAINAGE PLAN

PROJECT: 24-154
DATE: 07/24

SHEET 5 OF 12

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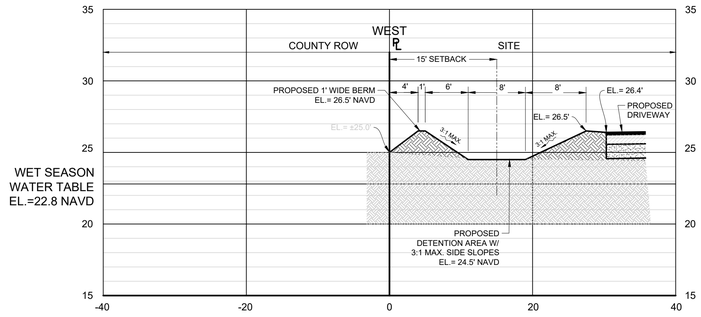
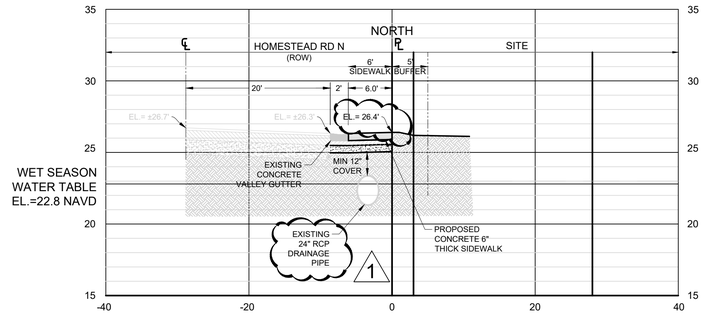


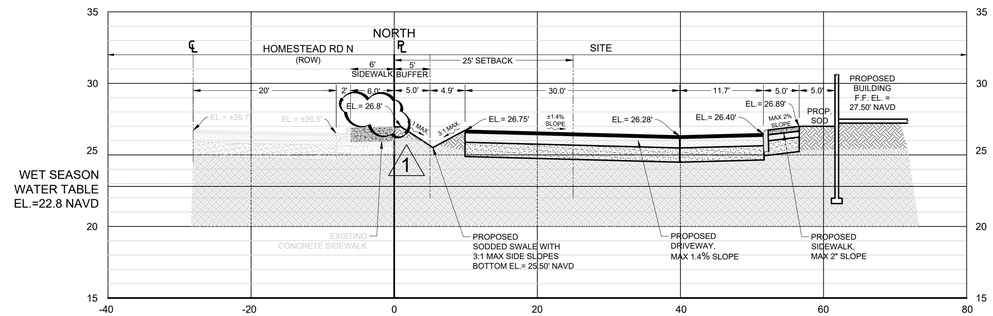
SECTION "A"

SCALES: 1" = 20' (HORIZ.)
1" = 10' (VERT.)



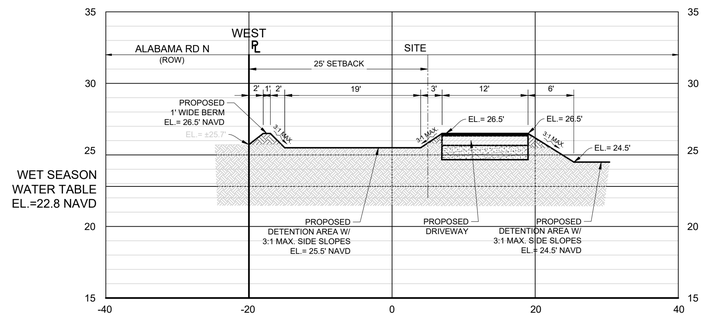
SECTION "B"

SCALES: 1" = 20' (HORIZ.)
1" = 10' (VERT.)



SECTION "C"

SCALES: 1" = 20' (HORIZ.)
1" = 10' (VERT.)



SECTION "D"

SCALES: 1" = 20' (HORIZ.)
1" = 10' (VERT.)

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION

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DATE	BY	REVISION DESCRIPTION
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ALABAMA RD N RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

CROSS SECTIONS

PROJECT: 24-154
DATE: 07/24

SHEET 7 OF 12

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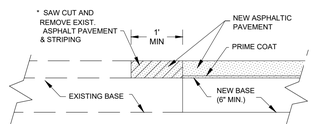
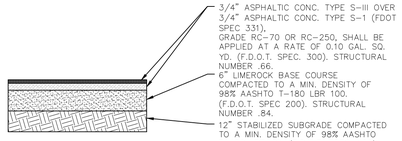
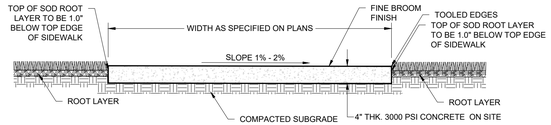


ASPHALTIC PAVEMENT JOINT DETAIL
N.T.S.

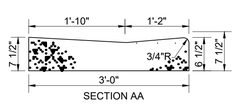


ONSITE PAVEMENT DETAIL
N.T.S.



TYPICAL SIDEWALK SECTION
(LEVEL GRASSED AREAS)
N.T.S.

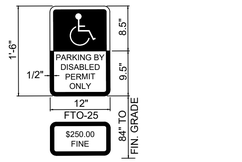
NOTES:
1. CONCRETE TO BE F.D.O.T. CLASS I, 3,000 PSI MINIMUM, WITH 1-1/2" DEEP CONTRACTION JOINTS AT 5' INTERVALS.
2. ALL PROPOSED SIDEWALK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE 6" PORTLAND CEMENT CONCRETE OVER 4" OF COMPACTED LIMEROCK, OVER 6" THICK STABILIZED SUBGRADE LBR40.



SECTION AA

SECTION CC

VALLEY GUTTER
N.T.S



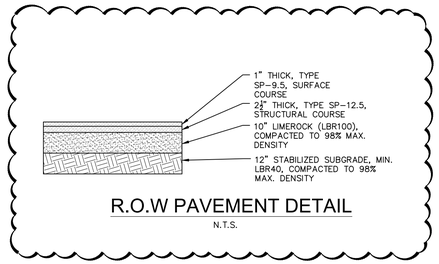
HANDICAP SIGN

ALL LETTERS ARE 1" SERIES 'C'. TOP PORTION OF SIGN SHALL HAVE A REFLECTIVE BLUE BACKGROUND W/ WHITE REFLECTIVE LEGEND & BORDER.

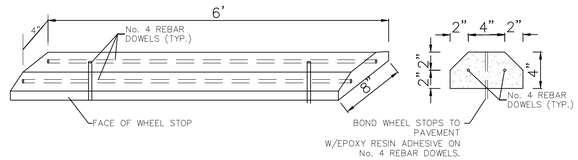
BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTIVE WHITE BACKGROUND W/ BLACK OPAQUE LEGEND & BORDER.

HANDICAP SPACE SIGNAGE PER FDOT INDEX 700-102.

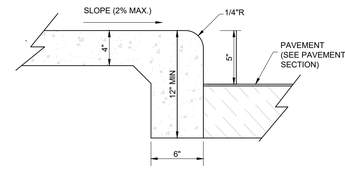
NOTE:
1. VERTICAL ACCESSIBLE SIGN DOES NOT HAVE TO BE POLE-MOUNTED AND MAY BE MOUNTED TO THE BUILDING FASCIA INSTEAD.



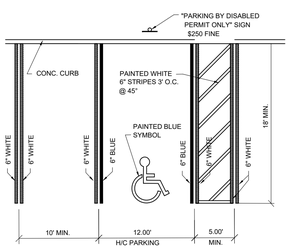
R.O.W PAVEMENT DETAIL
N.T.S.



6' PRE-CAST CONCRETE WHEEL STOP
N.T.S.

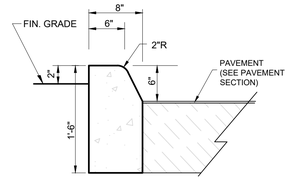


THICKENED EDGE CONC WALK
CB-TEDGE.dwg (2007)
N.T.S.

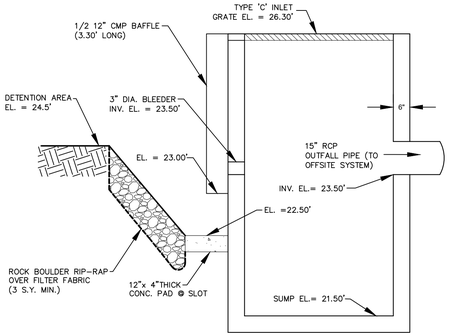


TYPICAL STRIPING DETAIL
N.T.S.

STRIPING NOTES:
1. ALL PAVEMENT MARKING AND STRIPING WITHIN SITE SHALL BE IN ACCORDANCE WITH M.U.T.C.D.
2. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE TWO (2) COATS OF TRAFFIC REFLECTIVE PAINT (F.D.O.T. SECT. #710) UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATION.
3. ALL MARKING WITHIN A PUBLIC R/W SHALL BE IN THERMOPLASTIC. (F.D.O.T. SEC#711)
4. ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH EXISTING PAVEMENT MARKINGS SHALL BE REMOVED BY HYDROBLASTING.

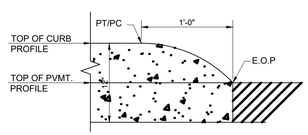


TYPE "D" CURB
N.T.S.



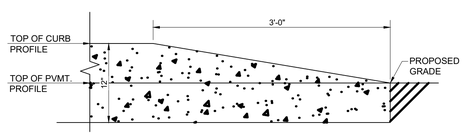
SECTION

MODIFIED FDOT TYPE 'C' INLET
CONTROL STRUCTURE OCS-1
N.T.S.



TRANSITION FROM 6" TO 0" HEIGHT

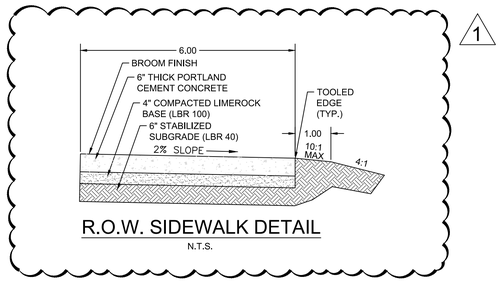
1' CURB ENDING DETAIL
N.T.S.



TRANSITION FROM 6" TO 0" HEIGHT

3' CURB ENDING DETAIL
N.T.S.

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION



R.O.W. SIDEWALK DETAIL
N.T.S.

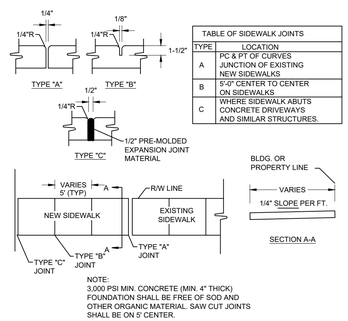


TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
A	PC & PT OF CURVES JUNCTION OF EXISTING NEW SIDEWALKS
B	5'-0" CENTER TO CENTER ON SIDEWALKS
C	WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS AND SIMILAR STRUCTURES.

NOTE:
3,000 PSI MIN. CONCRETE (MIN. 4" THICK) FOUNDATION SHALL BE FREE OF SOD AND OTHER ORGANIC MATERIAL. SAW CUT JOINTS SHALL BE ON 5' CENTER.

SIDEWALK JOINTS DETAIL
N.T.S.

PROJECT: 24-154
DATE: 07/24

ANDRES BORAL, PE, MBA
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WWW.BORALENGINEERING.COM

OWNER:
LEE BLVD HOLDINGS, LLC.
15581 LAGUNA HILLS DRIVE.
FORT MYERS, FL 33908

DATE	BY	REVISION DESCRIPTION
09/26/2025	GM	REVISED PER LEE COUNTY COMMENTS

ALABAMA RD N
RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

GRADING, PAVING AND DRAINAGE DETAILS

SHEET 8 OF 12

Andres Boral, State of Florida, Professional Engineer, License No. 80373. This item has been electronically signed and sealed by Andres Boral, PE on the date indicated here using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SITE CONSTRUCTION PLANS
ALABAMA DR N
RESTAURANT

SECTION 32, TOWNSHIP 44, RANGE 27E
LEE COUNTY, FLORIDA

UTILITY COMPANIES

ELECTRIC:

FLORIDA POWER AND LIGHT
4840 BALLARD ROAD
FORT MYERS, FL 33905
(239) 332-9137

WASTEWATER:

FLORIDA GOVERNMENTAL
UTILITY AUTHORITY
9841 BERNWOOD PLACE DRIVE,
SUITE 120
FORT MYERS, FL 33966
(239) 368-1615

POTABLE WATER:

FLORIDA GOVERNMENTAL
UTILITY AUTHORITY
9841 BERNWOOD PLACE DRIVE,
SUITE 120
FORT MYERS, FL 33966
(239) 368-1615

TELEPHONE:

CENTURYLINK TELEPHONE
8441 LITTLETON ROAD
NORTH FORT MYERS, FL 33903
(239) 336-2031

NATURAL GAS:

TECO / PEOPLE GAS 5901
ENTERPRISE PARKWAY
FORT MYERS, FL 33905
(239) 690-5507

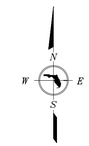
COMCAST CABLE

COMCAST CABLE 12641
CORPORATE LAKES DR.
FORT MYERS, FL 33913
(239) 432-9277

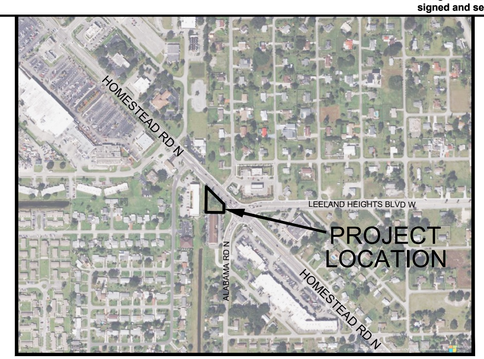
STORM WATER

LEHIGH ACRES MUNICIPAL
SERVICES IMPROVEMENT DISTRICT
601 EAST COUNTY LANE
LEHIGH ACRES, FL 33936
(239) 368-0044

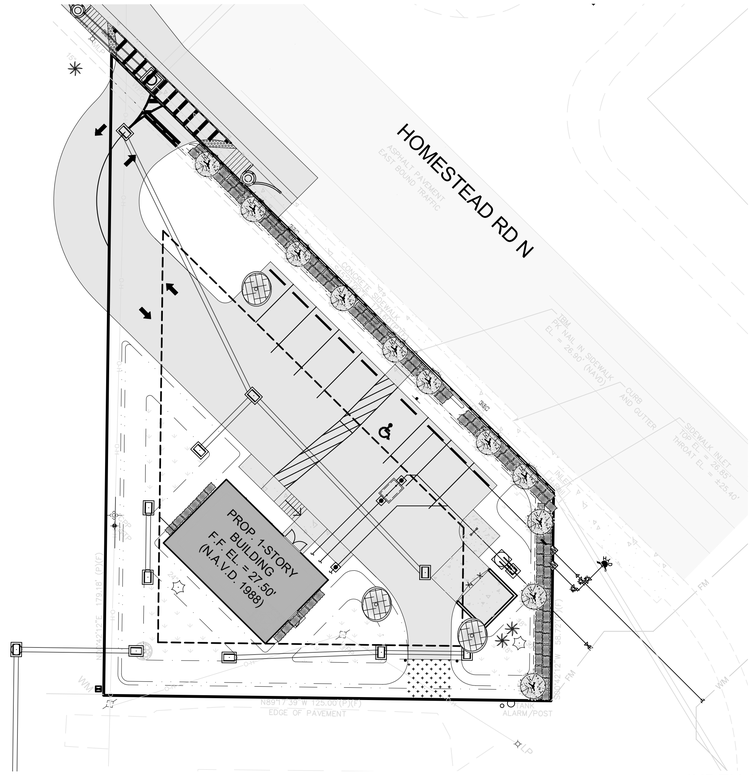
2



VICINITY MAP
SCALE: 1" = 20'



LOCATION MAP
N.T.S



SITE DATA TABLE

SITE ADDRESS:	49 ALABAMA ROAD N, LEHIGH ACRES, FL 33936
STRAP NUMBER:	32-44-27-01-00001.0010
SITE AREA:	14,869 SF (±0.34 AC)
ZONING DESIGNATION:	C-2
FUTURE LAND USE:	INTENSIVE DEVELOPMENT
DEVELOPMENT TYPE:	RESTAURANT
CONSTRUCTION TYPE:	C.B.S
FEMA FLOOD ZONE:	'X'
BUILDING HEIGHT:	35'
LOT COVERAGE:	40% MAX

ZONING

SITE:	(C-2)	(VACANT)
NORTH:	(ROW)	(HOMESTEAD RD N)
SOUTH:	(CPD)	(COMMERCIAL BUILDING)
WEST:	(CS-1)	(COMMERCIAL BUILDING)
EAST:	(ROW)	(ALABAMA RD N)

FUTURE LAND USE

SITE:	INTENSIVE DEVELOPMENT
NORTH:	INTENSIVE DEVELOPMENT
WEST:	INTENSIVE DEVELOPMENT
EAST:	INTENSIVE DEVELOPMENT
SOUTH:	INTENSIVE DEVELOPMENT

FIRE DISTRICT:
LEHIGH ACRES FIRE DISTRICT

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION

BUILDING SETBACKS / LANDSCAPE BUFFERS*

	BUILDING SETBACKS REQ'D	BUILDING SETBACKS PROV'D	LANDSCAPE BUFFERS* REQ'D	LANDSCAPE BUFFERS* PROV'D
NORTH (FRONT): C-1 - HOMESTEAD RD N	25'	62'	5'	5'
SOUTH (SIDE): CPD - COM BUILDING	15'	15.01'	0'	0'
EAST (FRONT): ROW - ALABAMA RD N	25'	62.67'	5'	5'
WEST (SIDE): CS-1 - COM BUILDING	15'	16.18'	0'	0'

*PER MIXED USE OVERLAY

BUILDING INFORMATION

BUILDING PROPOSED: 1,000 S.F.
STORIES PROPOSED: 1 STORY
USE: RESTAURANT

PARKING REQUIREMENTS

RESTAURANTS,
14 SPACES PER 1,000 S.F. OF TOTAL FLOOR AREA

1,000/1,000 X 14 SPACES = 14 SPACES
14 SPACES X 0.50 = 7 SPACES*

REQ'D. PARKING = 7 SPACES
PROP'D. PARKING = 9 SPACES
(INCLUDES 1 H/C)

*PARKING REDUCTION WITHIN MIXED-USE OVERLAY

*PARKING ACTIVITY RATE IS HIGH

PROJECT AREA BREAKDOWN

	SQUARE FEET	ACRES	PERCENTAGE
TOTAL	14,869	0.341	100.00%
BUILDING	1,000	0.023	6.73%
PAVEMENT/CONC.	5,972	0.137	40.16%
IMPERVIOUS	6,972	0.160	46.89%
PERVIOUS	7,897	0.181	53.11%

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES
3. AERIAL, EXIST. CONDITIONS, DEMOLITION & EROSION CONTROL PLAN
4. SITE DIMENSION PLAN
5. GRADING, PAVING & DRAINAGE PLAN
6. UTILITY PLAN
7. CROSS SECTIONS
8. GRADING, PAVING & DRAINAGE DETAILS

9A. UTILITY DETAILS
9B. UTILITY DETAILS
9C. UTILITY DETAILS (LIFT STATION)

10. LANDSCAPE, IRRIGATION & STRIPING PLAN
11. LANDSCAPE, IRRIGATION & STRIPING PLAN
12. SITE LIGHTING PLAN

CALL 48 HOURS BEFORE YOU DIG
811
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

NOTES:

ALL **EXISTING** (SURVEY) & ALL **PROPOSED** GRADE ELEVATIONS & CONTOURS SHOWN REFER TO **N.A.V.D. '88.**

THESE PLANS MAY HAVE BEEN REDUCED OR INCREASED IN SIZE BY REPRODUCTION(S). THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

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OWNER:
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DATE	BY	REVISION DESCRIPTION
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ALABAMA RD N RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

COVER SHEET

SHEET 1 OF 12

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FGUA STANDARD PLAN NOTES:

1. ALL CONSTRUCTION SHALL MEET LEE COUNTY STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. AN FGUA REPRESENTATIVE IS TO BE PRESENT DURING CONNECTIONS TO EXISTING FACILITIES WITH 72 HOUR NOTIFICATION.
3. ALL UTILITIES WITHIN THE PROPERTY LINES WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER.
4. ANY UTILITIES (PIPES, VALVES, AND ASSOCIATED HARDWARE) TO BE CONVEYED TO FGUA WILL BE LOCATED WITHIN AN EXISTING PUBLIC UTILITY EASEMENT, RIGHT-OF-WAY (ROW) AND/OR A DEDICATED FGUA UTILITY EASEMENT.
5. ANY REAL PROPERTY (LIFT STATIONS, PUMP HOUSES, WELLS, ETC.) WILL NOT BE LOCATED WITHIN THE ROW AND WILL BE CONVEYED TO FGUA VIA A SPECIFIC WARRANTY DEED.
6. LOW PRESSURE AIR TEST, AND VIDEO INSPECTION ARE REQUIRED FOR THE GRAVITY COLLECTION SYSTEM - WATER SYSTEMS ARE TESTED TO A MINIMUM OF 150 PSI FOR 2 HOUR DURATION AS PER AWWA C 600 STANDARDS. FIRE SYSTEMS ARE NOT THE FGUA RESPONSIBILITY.
7. INSTALL 10 GAUGE TRACER WIRE ON ALL MAIN PIPELINES. WIRE TO EXTEND INTO EACH VALVE BOX WITH SUFFICIENT EXCESS TO BRING WIRE 3 FEET ABOVE FINISH GRADE.
8. ALL WATER AND/OR WASTEWATER LINES PASSING UNDER PAVED AREAS WILL BE CONSTRUCTED WITH A CASING AND SHALL APPLY WITH LOCAL OR STATE DOT STANDARDS.
9. A REDUCED PRESSURE ZONE (RPZ), BACKFLOW PREVENTION ASSEMBLY (BFP) IS REQUIRED. ACCEPTABLE MODELS FEBCO 825Y, WATTS 909, WILKINS 975XL, OR CONBRACO 400.
10. FULL CIRCLE STAINLESS STEEL TAPPING SADDLE SLEEVE WITH RESILIENT SEATED TAPPING VALVE FOR PROPOSED WATER AND FORCE MAIN CONNECTIONS TO BE USED.
11. WATER TAPPING SADDLES TO BE DOUBLE STRAP BRASS OR DUCTILE IRON OR EPOXY COATED STEEL WITH STAINLESS STEEL HARDWARE. TIE STRAPS AND BOLTS SHALL BE CORROSION RESISTANT ALLOY STEEL.
12. ALL FIRE FLOW LINES WILL RUN SEPARATE FROM THE DOMESTIC WATER MAINS AND HAVE A FIRE DETECTION METER AND A FIRE LINE BACKFLOW PREVENTION ASSEMBLY (BFP) ASSEMBLY SHALL INCLUDE A LOW FLOW BY-PASS METER W/RPZ.
13. MANHOLE FRAMES & COVERS, AND CLEAN-OUT CAPS ARE TO BE WATER TIGHT, IF NEEDED EXISTING MANHOLE TOPS ARE TO BE ADJUSTED TO PROPOSED GRADE.
14. INFLOW PROTECTION DISHES ARE REQUIRED FOR ALL MANHOLES; STAINLESS STEEL IN PAVED ARES, ABS IN UNPAVED ARES.
15. A CLEAN-OUT SHALL BE PROVIDED AT THE ROW/PL FOR ALL SERVICE CONNECTIONS.
16. THE FGUA SHALL OWN AND MAINTAIN ALL WATER SERVICE LINES UP TO THE POINT OF CONNECTION. ALL WATER MAINS SHALL BE A MINIMUM OF EIGHT INCHES (8") IN DIAMETER AND ALL SUCH WATER MAINS SHALL BE CONSTRUCTED IN DEDICATED RIGHTS-OF-WAY OR APPROPRIATE UTILITY EASEMENTS DEDICATED TO THE FGUA.
17. ALL SEWER FORCE MAIN LINES AND GRAVITY SERVICE LINES ACCEPTED MUST BE AT LEAST FOUR INCHES (4") IN DIAMETER AND EIGHT INCHES (8"), RESPECTIVELY, EXCEPT LATERAL SEWER SERVICE LINES WHICH SHALL BE NO LESS THAN SIX INCHES (6") IN DIAMETER AND ACCEPTED BY THE FGUA TO A CLEAN-OUT LOCATED ON THE EDGE OF THE RIGHT-OF-WAY OR AN EASEMENT.
18. A BALL CHECK VALVE FOLLOWED BY A PLUG VALVE WILL BE INSTALLED ON FORCE MAINS LOCATED IN A PUE OR R/W AT THE PROPERTY LINE DISCHARGING FROM PRIVATELY OWNED LIFT STATIONS CONNECTING INTO THE UTILITY MAINS.
19. CONNECTION TO EXISTING MANHOLES AND/OR LIFT STATIONS SHALL BE BY CORE BORE WITH KOR-N-SEAL CONNECTORS.
20. ALL CONNECTIONS SHALL BE PERFORMED BY A LICENSED, UNDERGROUND CONTRACTOR, WITH ADVANCE NOTIFICATION (72 HOURS) TO THE FGUA INSPECTOR.
21. BACKFLOW PREVENTION DEVICES SHALL BE PRIVATELY OWNED AND MAINTAINED. BFPDs SHOULD BE LOCATED OUTSIDE OF ANY FGUA EASEMENT OR ROW/PUBLIC UTILITY EASEMENT. IT IS THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN THE DEVICE AND PROVIDE ANNUAL TESTING CERTIFICATIONS TO THE FGUA.
22. ALL WATER AND WASTEWATER INFRASTRUCTURE ON PRIVATE PROPERTY WILL BE OWNED, OPERATED AND MAINTAINED BY OWNER UNLESS IN AN EASEMENT DEDICATED TO THE FGUA.

GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL BE REQUIRED TO MEET ALL "MAINTENANCE OF TRAFFIC" REQUIREMENTS AS PRESCRIBED IN THE CURRENT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", F.H.W.A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, CURRENT EDITION, AND ALL APPLICABLE SECTIONS OF THE ROAD AND TRAFFIC DESIGN STANDARDS, FLORIDA DEPARTMENT OF TRANSPORTATION, CURRENT EDITION.
2. FINAL ALIGNMENTS, MATERIALS, COLORS, FINISHES, FOR PEDESTRIAN HARDSCAPE AREAS MAY BE ADJUSTED ON SITE BY OWNER OR OWNER REPRESENTATIVE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO BEGINNING CONSTRUCTION. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY UTILITY RELOCATION WITH THE UTILITY COMPANY SUCH THAT ALL CONFLICTS ARE RESOLVED.
4. THE CONTRACTOR SHALL COMPLY WITH CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) SPECIFICATIONS. SPECIFICALLY IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE "SPECIFICATIONS FOR ROAD BRIDGE CONSTRUCTION" AND THE "ROAD AND TRAFFIC DESIGN STANDARDS", UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL VERIFY ALL BUILDING DIMENSIONS WITH THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. ANY DISCREPANCY NOT CALLED TO THE ENGINEER'S ATTENTION PRIOR TO THE ACCOMPLISHMENT OF THE WORK SHALL BE CORRECTED BY AND AT THE CONTRACTOR'S EXPENSE.
6. IF ANY WELLS ARE LOCATED DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ENGINEER.
7. ALL PRACTICABLE AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS, SWALES AND OUTFALLS. (REFER TO EROSION CONTROL PLAN)
8. WHERE THE NEW PAVEMENT IS DISCONTINUED IT SHALL BE FLUSH WITH OR HAVE A SMOOTH TRANSITION WITH ADJACENT PAVEMENT.
9. ALL INVERT ELEVATIONS NOTED FOR DRAINAGE STRUCTURES ARE FLOW LINE ELEVATIONS.
10. ALL EXISTING AND PROPOSED GRADES SHOWN REFER TO N.A.V.D. 1988.
11. AT THE CONTRACTOR'S EXPENSE, ALL FRAMES, COVERS, VALVE BOXES, METER BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION.
12. ANY SURPLUS MATERIAL WILL REMAIN THE PROPERTY OF THE OWNER; AND THE CONTRACTOR, AT HIS EXPENSE SHALL STOCKPILE THE SURPLUS MATERIAL AS DIRECTED BY OWNER.
13. THE LIMITS OF CONSTRUCTION SHALL MATCH THE LIMITS OF CLEARING & GRUBBING UNLESS OTHERWISE NOTED ON PLANS.
14. ALL UTILITY WORKMANSHIP AND MATERIALS FOR THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND STANDARDS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), THE STATE OF FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES (HRS) UNLESS OTHERWISE NOTED.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY THE SIZE, DEPTH AND LOCATION OF ALL UTILITIES IN THE FIELD WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION. ANY UTILITIES THAT ARE DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED OR REPLACED AT HIS EXPENSE. ANY DISCREPANCY NOT CALLED TO THE ENGINEER'S ATTENTION PRIOR TO THE ACCOMPLISHMENT OF THE WORK SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. THE ENGINEER AND/OR OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THE SAME.
16. ALL DISTURBED AREAS WITHIN PROJECT SITE SHALL BE REGRADED AS REQUIRED AND STABILIZED WITH SOD. VACANT LOT AREAS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE SEEDED & MULCHED.
17. CONCRETE SIDEWALK: USE CLASS I, 3000 PSI (MINIMUM) CONCRETE. APPLY A BROOM FINISH AND MAKE VERTICAL SAW CUTS AT 5' ON CENTER AT A DEPTH OF 1/4 OF THE SLAB THICKNESS. PROVIDE PRE-FORMED EXPANSION JOINTS AT 100' ON CENTER.
18. ALL HANDICAP SPACES, RAMPS, AND ACCESS AREA'S SHALL COMPLY IN STRICT ACCORDANCE WITH THE "AMERICAN DISABILITY ACT" (ADA) (28 CFR PART 36), AND "ACCESSIBILITY BY HANDICAPPED PERSONS" CHAPTER 553, PART V, FLORIDA STATUES. ANY DISCREPANCY SHALL BE CALLED TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION.
19. CONCRETE CURB & GUTTER AND STRAIGHT CURB: USE CLASS I, 3000 PSI (MINIMUM) CONCRETE. MAKE VERTICAL SAW CUTS EVERY 10' ON CENTER WITH PRE-MOLDED EXPANSION JOINTS EVERY 100' ON CENTER.
20. IMPROVEMENTS TO THIS SITE WERE DESIGNED AND ARE TO BE CONSTRUCTED IN COMPLIANCE WITH THE ADA ACCESSIBILITY GUIDELINES TO THE EXTENT REQUIRED UNDER THE AMERICANS WITH DISABILITES ACT OF 1990 (ADA)

GROUNDWATER & SURFACE WATER NOTE:

1. THE ENGINEER OF RECORD HAS ANALYZED THAT NO NEGATIVE IMPACTS TO GROUNDWATER AND SURFACE WATER ARE ANTICIPATED.

MISC. NOTES

1. FINAL ALIGNMENTS, MATERIALS, COLORS, FINISHES, FOR PEDESTRIAN HARDSCAPE AREAS MAY BE ADJUSTED ON SITE BY OWNER OR OWNER REPRESENTATIVE.
2. THE SIZES AND LOCATIONS OF THE UNDERGROUND PRESSURE MAINS, STORM DRAINS, GRAVITY MAINS, ELECTRIC CONDUITS, SLEEVES, TRANSFORMERS, ENCLOSURES, LIGHT POLES AND OTHER APPURTENANCES ARE BASED UPON THE BEST INFORMATION OBTAINED BY THE ENGINEER AT THE TIME OF DESIGN. THE CONTRACTOR SHALL VERIFY ACTUAL LOCATION, SIZE AND DEPTH OF ALL UTILITIES DESCRIBED ABOVE PRIOR TO INSTALLATION OF THEIR FACILITIES.

RIGHT-OF-WAY CONSTRUCTION NOTES:

1. CONSTRUCTION OF NEW DRIVEWAYS SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF LEE COUNTY AND FLORIDA DEPARTMENT OF TRANSPORTATION AND OTHER STANDARDS REFERENCED HEREIN.
2. PRIOR TO COMMENCING ANY WORK WITHIN THE COUNTY RIGHT-OF-WAYS, THE CONTRACTOR SHALL SET-UP A PRE-CONSTRUCTION MEETING WITH THE COUNTY INSPECTORS. COUNTY REQUIREMENTS FOR MATERIAL TEST REPORTS AND PROCEDURES SHOULD BE VERIFIED BY THE CONTRACTOR AND THE REPORTS SHALL BE AVAILABLE TO THE INSPECTORS AT THE TIME OF INSPECTION. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE INSPECTIONS AND OBTAIN APPROVAL PRIOR TO PLACEMENT OF CONCRETE AND/OR ASPHALT WITHIN THE RIGHT-OF-WAYS. PRIOR TO THE ENGINEERING RIGHT-OF-WAY FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE IN-PLACE PAVEMENT SECTION CORE SAMPLES FOR ALL PAVEMENT WITHIN THE COUNTY RIGHT-OF-WAYS.
3. PRIOR TO WORKING WITHIN THE RIGHT-OF-WAYS, THE CONTRACTOR IS REQUIRED TO OBTAIN ALL THE NECESSARY RIGHT-OF-WAY PERMITS AND PROVIDE THE NECESSARY WORK ZONE CONTROLS AND SAFETY REQUIREMENTS. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO PREPARE A TRAFFIC MAINTENANCE PLAN AND OBTAIN APPROVAL BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.
4. THE CONTRACTOR SHALL NOTE THAT THE DESIGN ELEVATIONS SHOWN ON THE PLANS WITHIN THE RIGHT-OF-WAY SHOWN MAY DIFFER FROM THE COUNTY'S MASTER DESIGN PLAN. ALL PROPOSED GRADES IN THE ALLEYS, DRIVEWAYS AND STREET RIGHTS-OF-WAY SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
5. PRIOR TO CONSTRUCTION NEAR OR ADJACENT TO TRAFFIC SIGNALS, THE CONTRACTOR SHALL NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION TRAFFIC SIGNAL MAINTENANCE DIVISION TO ENSURE THE PROPER OPERATION OF THE SIGNAL AND OTHER APPURTENANCES. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF SIGNAL BOXES AND LOOPS (IF ANY) WITH F.D.O.T.
6. ALL BROKEN OR VERTICALLY MISALIGNED CURB/SIDEWALK DIRECTLY ADJACENT TO THE SITE THAT DO NOT MEET A.D.A. MINIMUM REQUIREMENTS SHALL BE REPLACED. CONCRETE FORMS ARE REQUIRED ON BOTH SIDES OF REPLACEMENT CURBS.
7. ANY WORK OR MATERIALS THAT DO NOT CONFORM TO THE SPECIFICATIONS CONTAINED HEREIN OR ANY WORK PERFORMED IN THE CITY R.O.W. WITHOUT A COUNTY INSPECTION IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL RESTORATION IN THE CITY RIGHT-OF-WAYS DISTURBED OR DAMAGED DURING CONSTRUCTION INCLUDING SWALE RE-GRADING (REFER TO EROSION CONTROL PLAN AND GENERAL CONSTRUCTION NOTES).
9. ALL COUNTY TRAFFIC SIGNS AND MAILBOXES IN OR ADJACENT TO THE RIGHT-OF-WAY THAT MUST BE RELOCATED SHALL BE COORDINATED WITH THE COUNTY TRAFFIC DEPARTMENT. TEMPORARY MAILBOXES SHALL BE MADE AVAILABLE TO THE OWNER(S) AND POSTAL DELIVERY SERVICE DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL COORDINATE THE TEMPORARY AND FINAL MAILBOX LOCATIONS WITH THE LOCAL POST OFFICE. THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY SITE DEVELOPMENT AND REVIEW DIVISION FOR THE INSTALLATION, INSPECTIONS AND SHALL PROVIDE SURVEY LAYOUT FOR THE RE-ROUTING OF COUNTY DRAINAGE PIPES AND STRUCTURES (IF ANY).

LEGEND

- MH-5 — MANHOLE I.D.
- PROPOSED FORCE MAIN
- PROPOSED FIRE HYDRANT ASSEMBLY W/PIPE BOLLARDS (TYP)
- PROPOSED WATER MAIN W/ METER AND RPBFP
- PROPOSED SANITARY SEWER MAIN W/MANHOLE
- PROPOSED 6" SEWER LATERAL W/CLEAN-OUT
- TRANSFORMER PAD (BY OTHERS)
- EXISTING ASPHALT PAVEMENT
- PROPOSED CONCRETE SURFACE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED BUILDING
- PROPOSED COVERED PARKING STRUCTURE
- LIGHT POLE (BY OTHERS)
- EXIST. STORM DRAIN & INLET
- S-2 — INLET STRUCTURE I.D.
- PROP. STORM DRAIN & INLET
- PROP. MITERED END SECTION
- X 25.05 — EXISTING ELEVATION
- X 25.75 — PROPOSED ELEVATION
- DRAINAGE FLOW ARROW
- BERM/DETENTION AREAS
- ROCK BOULDER RIP-RAP OVER FILTER FABRIC
- DRY DETENTION/RETENTION

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION

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GENERAL NOTES

SHEET 2 OF 12

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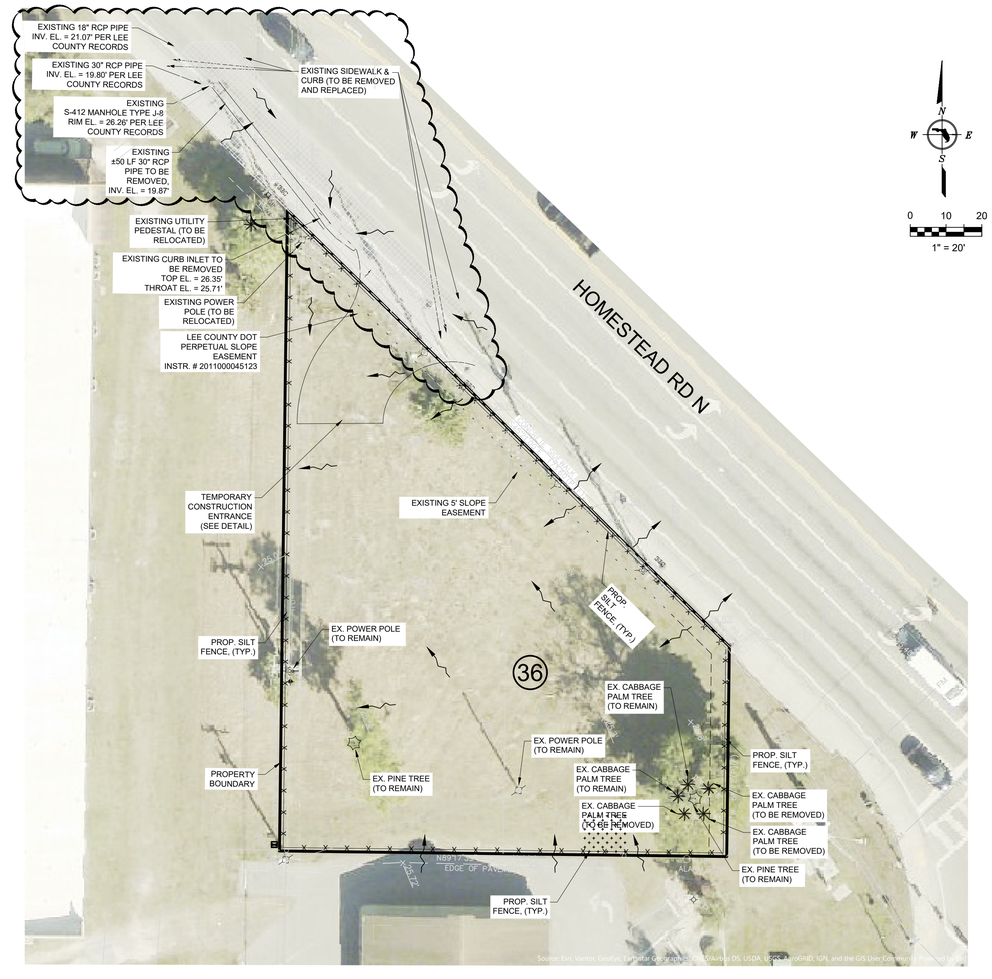
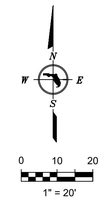
EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL ADHERE TO THE SEQUENCE OF OPERATIONS FOR EROSION CONTROL IMPLEMENTATION HERON. ANY DEVIATION FROM THIS SEQUENCE DEEMED NECESSARY BY THE CONTRACTOR SHALL BE APPROVED BY THE OWNER.
2. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED WITH THE CONSTRUCTION ACTIVITIES RELATED TO EROSION CONTROL AS SHOWN OR NOTED HEREON SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), AS WELL AS THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR THIS SITE, AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. ALL WASH WATER SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT BETWEEN WASH WATER POLLUTANTS AND STORM RUNOFF DISCHARGED FROM THIS SITE.
4. OIL AND GREASE ABSORBING MATERIALS SHALL BE READILY AVAILABLE ON-SITE AND SHALL BE PROMPTLY USED TO CONTAIN AND/OR CLEAN UP ALL FUEL OR CHEMICAL SPILLS OR LEAKS.
5. DUST CONTROL SHALL BE ACCOMPLISHED BY WATERING DRY, EXPOSED AREAS ON A REGULAR BASIS. SPRAYING OF PETROLEUM BASED OR TOXIC LIQUIDS FOR THIS IS PROHIBITED.
6. ALL RIGHT-OF-WAYS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE PERMANENTLY SODDED PRIOR TO THE COMPLETION OF THE PROJECT.
7. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION AREAS HAVE PERMANENTLY CEASED SHALL BE PERMANENTLY SEEDED OR SODDED, AS SHOWN ON THE ATTACHED PLAN, WITHIN FOURTEEN DAYS.
8. ALL VEHICLES SHALL BE CLEANED AT THE CONSTRUCTION SITE PRIOR TO EXITING.
9. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED ONTO ADJACENT ROADWAYS BY VEHICLES EXITING THE SITE SHALL BE CLEANED OR REMOVED IMMEDIATELY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPT REMOVAL OF ALL ACCUMULATED SILT IN THE STORM SEWER SYSTEM AND ALONG SILT FENCES.
11. SILT FENCES SHALL BE PLACED AROUND ANY STOCKPILES USED ON THIS SITE.
12. ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED TO ENSURE COMPLIANCE WITH THE U.S.E.P.A. AND FLORIDA DEP STORM WATER POLLUTION REGULATIONS SHALL BE IMPLEMENTED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
13. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE WITHIN THIRTY DAYS AFTER STABILIZATION OF ALL SURFACES.
14. THE CONTRACTOR SHALL ASSUME LIABILITY FOR DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT-OF-WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION CONTROL PROCEDURES SHOWN AND NOTED IN THE PLANS.
15. WHENEVER DIRT, ROCK OR OTHER MATERIALS ARE EXPORTED FOR USE OFF OF THE PRIMARY CONSTRUCTION SITE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT EPA STORMWATER PERMITTING REQUIREMENTS ARE MET. PRIOR TO ANY EXPORT OF MATERIALS, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A WRITTEN AGREEMENT WITH ANY LANDOWNER WHO WILL RECEIVE EXPORTED MATERIALS, STATING THAT THE SITE WILL BE PROPERLY PERMITTED WHEN REQUIRED AND DESCRIBE THE EROSION CONTROL MEASURES WHICH WILL BE USED. AT A MINIMUM, EROSION CONTROL MEASURES MUST CONSIST OF PERIMETER CONTROLS (SYNTHETIC HAY OR SILT FENCES) ON ALL DOWNSLOPE AND SIDESLOPE BOUNDARIES OF ANY DISTURBED AREAS, PLUS PROVISIONS FOR RE-VEGETATION AFTER THE FILL MATERIALS ARE IN PLACE.
16. PRIOR TO CONSTRUCTION, FILTER FABRIC, SILT SCREENS, STRAW BALES OR OTHER APPROVED EROSION CONTROL DEVICES SHALL BE INSTALLED ACROSS THE SWALE AT THE LOWEST DISTURBED POINT TO PREVENT EROSION MATERIAL FROM LEAVING THE CONSTRUCTION AREA, INCLUDING ANY VACANT AREAS USED FOR INGRESS AND EGRESS.
17. ALL AFFECTED STORMWATER PIPES, INLETS AND CATCH BASINS SHALL BE PROTECTED BY EROSION CONTROL DEVICES TO PREVENT CONSTRUCTION RELATED EROSION MATERIAL FROM ENTERING THE STORMWATER SYSTEM.
18. THE EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION PROCESS AND SHALL REMAIN IN PLACE UNTIL STABILIZED WITH SOD AND THE VACANT AREAS ARE SEEDED AND MULCHED.
19. ALL DEWATERING SHALL BE IN ACCORDANCE WITH S.F.W.M.D. SHORT TERM DEWATERING CRITERIA.
20. PER THE SURVEY, THERE ARE NO WELLS ON SITE. IF ANY WELLS ARE LOCATED DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ENGINEER. ANY MONITORING WELLS NOT PREVIOUSLY PLUGGED ARE TO BE ABANDONED PER 62-532.500(4) REQUIREMENTS AND S.F.W.M.D. RULE 40E-3.532(3) BY A WATER WELL CERTIFIED CONTRACTOR.
21. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC R/W. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
22. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC R/W.
23. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED W/ CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION

2





ACTIVITY SCHEDULE:

TASK DESCRIPTION:	WEEKS 1	2	3	4	5	6	7	8	9	10	11	12
EROSION CONTROL MEASURES	X	X	X	X	X	X	X	X	X	X	X	X
CLEARING & GRUBBING		X										
ROUGH GRADING		X	X									
TEMPORARY STABILIZATION (GRASSING)			X	X								
FINAL GRADING					X	X						
BUILDING CONSTRUCTION					X	X	X	X	X	X	X	X
UTILITIES							X	X	X	X		
PAVING										X	X	
FINAL STABILIZATION (LANDSCAPING)												X

LEGEND

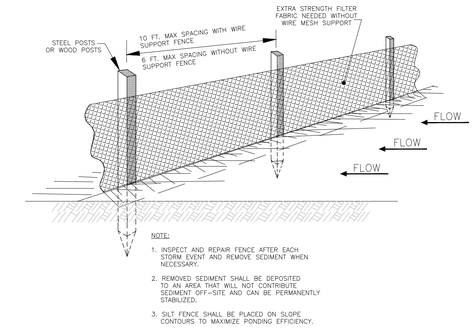
= EXISTING DRAINAGE PATTERN FLOW ARROW

F.L.U.C.C.S.

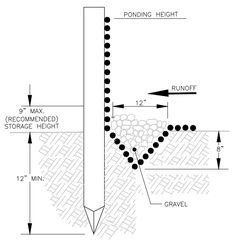
1400 COMMERCIAL & SERVICES

SOILS

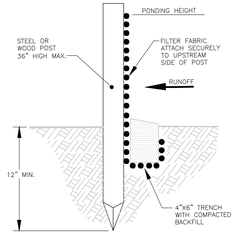
36 IMMOKALEE FINE SAND



NOTE:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



ALTERNATE DETAIL
TRENCH WITH GRAVEL



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

FILTER FABRIC SILT FENCE

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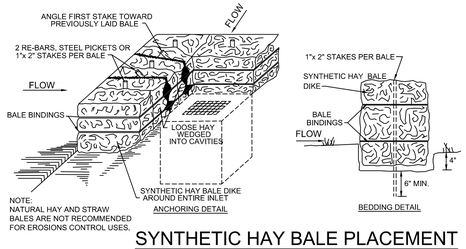

SYNTHETIC HAY BALE PLACEMENT

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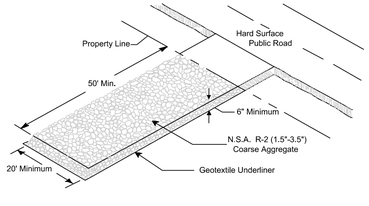

CONSTRUCTION ENTRANCE

N.T.S.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PROJECT: 24-154
DATE: 07/24

ANDRES BORAL, PE, MBA
LICENSE # 80373 FBPE # 31552
711 5TH AVE SOUTH, SUITE 209, NAPLES FL 34102
ANDRES@BORALENGINEERING.COM
(P) 239-692-2609
BORAL ENGINEERING
WWW.BORALENGINEERING.COM

OWNER:
LEE BLVD HOLDINGS, LLC.
15581 LAGUNA HILLS DRIVE.
FORT MYERS, FL 33908

DATE	BY	REVISION DESCRIPTION
09/26/2025	GM	REVISED PER LEE COUNTY COMMENTS
02/23/2026	GM	REVISED PER LEE COUNTY COMMENTS
04/23/2026	GM	REVISED PER LEE COUNTY COMMENTS

ALABAMA RD N
RESTAURANT
49 ALABAMA ROAD N.
LEHIGH ACRES, FL 33936

AERIAL, EXIST. CONDITIONS
DEMOLITION & EROSION CONTROL PLAN

SHEET 3 OF 12

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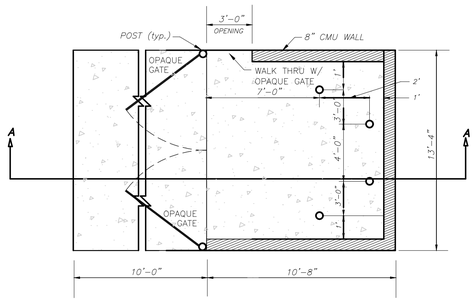
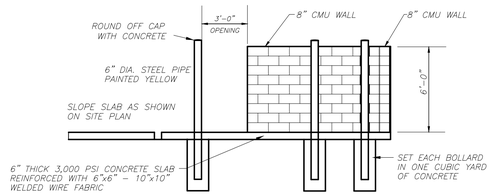


PLAN VIEW



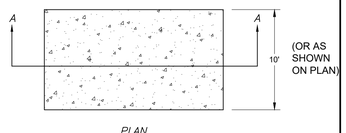
SECTION A – A

1. TOP COURSE OF BLOCK TO BE FILLED WITH MORTAR, TOWELED AND WASHED.
2. CONCRETE BLOCK TO BE PAINTED TO MATCHFACE OF THE BUILDING.
3. 22 FEET MINIMUM OVERHEAD CLEARANCE.
4. 12 FEET MINIMUM UNOBSTRUCTED ACCESS OPENING.

ENCLOSED DUMPSTER PAD w/ WALK THRU & GATE

(NOTE: DUMPSTER SHOWN IS FOR 3' WALK–THRU ON LEFT SIDE. CONTRACTOR TO LOOK ON SITE PLAN TO DETERMINE WHICH SIDE OF DUMPSTER THE 3' WALK (OPENING) IS AND BUILD THE ACTUAL OPENING ON THAT SIDE. THIS DETAIL SHOULD BE USED AS A GUIDE AND "MIRROR" IMAGE OF THIS DETAIL IS TO BE USED.)

DETAIL – 20 WH20



PLAN

SECTION A–A

CONCRETE DUMPSTER PAD

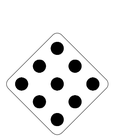
DETAIL 6 WH06

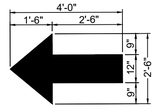
REFUSE & SOLID WASTE CALCULATIONS

COMMERCIAL/ BUSINESS BUILDING, SQ.FT.		MINIMUM SQ. FT. FOR GARBAGE COLLECTION	MINIMUM SQ. FT. FOR RECYCLABLE COLLECTION
0 - 5,000		60	75%
		60	45
	TOTAL REQUIRED =	60 + 45 = 105 SQ. FT.	
	TOTAL PROVIDED =	**13' 4" x 10' 8" = 142 SQ. FT.**	

PROJECT AREA BREAKDOWN

	SQUARE FEET	ACRES	PERCENTAGE
TOTAL	14,869	0.341	100.00%
BUILDING	1,000	0.023	6.73%
PAVEMENT/CONC.	5,972	0.137	40.16%
IMPERVIOUS	6,972	0.160	46.89%
PERVIOUS	7,897	0.181	53.11%





TYPICAL DIRECTIONAL ARROW

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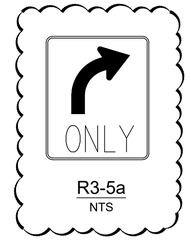

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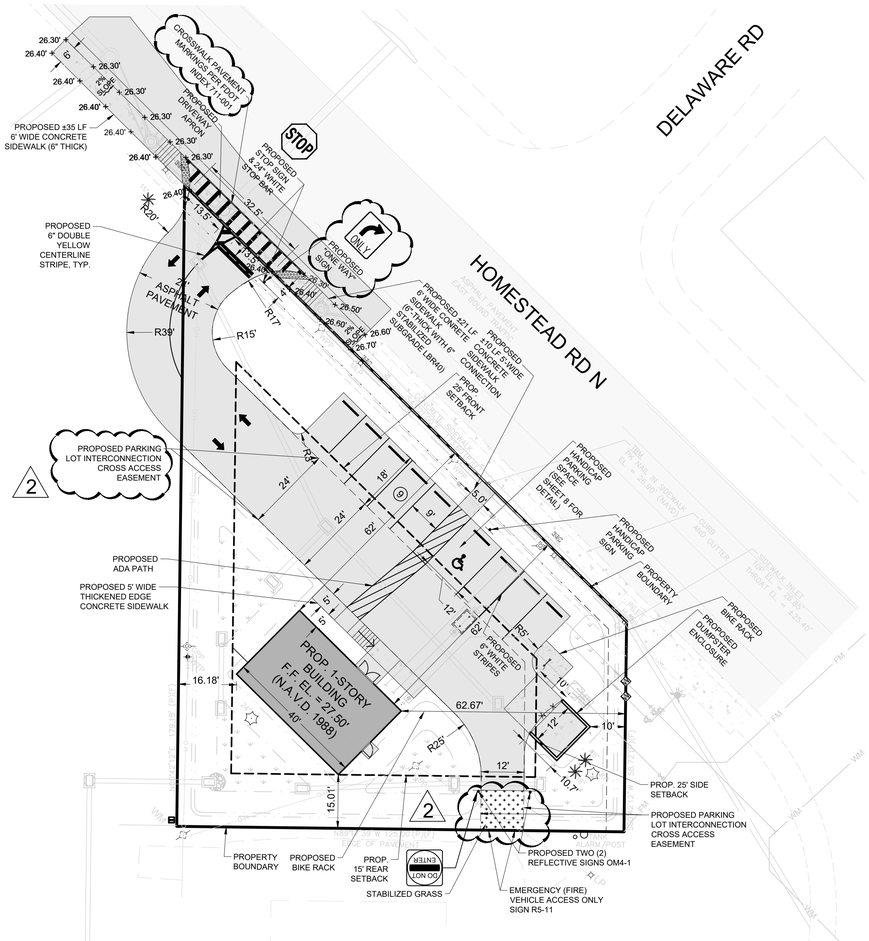

SIGN INSTALLATION DETAILS

ALL SIGN PANELS INSTALLED TO BE OF GRADE 5052 H38 ALUMINUM MATERIAL WITH A THICKNESS OF .080 INCHES (2.0 MM) OR GREATER.

ALL SIGNS SHALL HAVE THE SHAPE AND SIZE AS SPECIFIED IN THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SIGN POST SHALL BE A MINIMUM OF 14 GAUGE STEEL, 2" SQUARE WITH A GALVANIZED COATING.

THE SIGN POST OR SLEEVE SHALL BE INSTALLED A MINIMUM OF 30" BELOW THE FINISHED GRADE.

WHERE PARKING OR PEDESTRIAN MOVEMENTS OCCUR, THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE AT LEAST 2.1 M (7 FT) HIGH.

THE BOTTOM OF A SIGN SHALL BE A MAXIMUM OF 8 FEET HIGH MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT.

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION

LEE PLAN CONSISTENCY

THE PROPOSED DEVELOPMENT IS CONSISTENT WITH THE LEE PLAN INCLUDING SITE LOCATION CRITERIA.

THE PROPOSED DEVELOPMENT IS CONSISTENT WITH THE LEE PLAN ACREAGE ALLOCATION TABLE AND DOES NOT EXCEED THE COMMERCIAL ACREAGE REMAINING.

ADA ACCESSIBILITY GUIDELINES

THE PROPOSED SITE DESIGNED AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT OF 1990 PER LCLDC SECTION 10-1 AND 10-251.

PARKING LOTS/SPACE DESIGN

REQUIRED TWO WAY AISLE WIDTH: 24'
PROVIDED TWO WAY AISLE WIDTH: 24'
REQUIRED PARKING SPACE WIDTH/DEPTH: 9'/18'
PROVIDED PARKING SPACE WIDTH/DEPTH: 9'/18'
REQUIRED H/C SPACE WIDTH/DEPTH: 12'/18'
PROVIDED H/C SPACE WIDTH/DEPTH: 12'/18'

PARKING LOT LIGHTING

THE PARKING LOT WILL BE USED AT NIGHT. PLEASE SEE SITE LIGHTING PLAN (SHEET 12).

PARKING LOT ENTRANCE

THE PARKING LOT ENTRANCE WIDTH AT THE PROPERTY LINE IS:
MINIMUM: 24', MAXIMUM: 35'
THE PROPOSED PARKING LOT ENTRANCE WIDTH AT THE PROPERTY LINE IS 24' AND IS IN COMPLIANCE.

BUILDING INFORMATION

BUILDING PROPOSED: 1,000 S.F.
STORIES PROPOSED: 1 STORY
USE: RESTAURANT

PARKING REQUIREMENTS

RESTAURANTS,
14 SPACES PER 1,000 S.F. OF TOTAL FLOOR AREA

1,000/1,000 X 14 SPACES = 14 SPACES
14 SPACES X 0.50 = 7 SPACES*

REQ'D. PARKING = 7 SPACES
PROP'D. PARKING = 9 SPACES
(INCLUDES 1 H/C)

*PARKING REDUCTION WITHIN MIXED-USE OVERLAY

CALL 48 HOURS BEFORE YOU DIG
811
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

ANDRES BORAL, PE, MBA
LICENSE # 80373 FBPE # 31552
711 5TH AVE SOUTH, SUITE 209, NAPLES FL 34102
ANDRES@BORALENGINEERING.COM
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OWNER:
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04/23/2026	GM	REVISED PER LEE COUNTY COMMENTS

PROJECT: 24-154
DATE: 07/24

ALABAMA RD N RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

SITE DIMENSION PLAN

SHEET 4 OF 12

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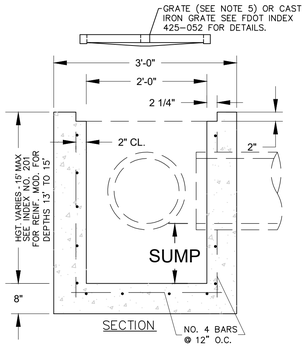

TYPE 'C' INLET

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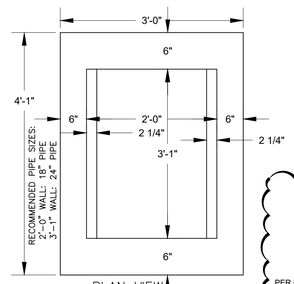
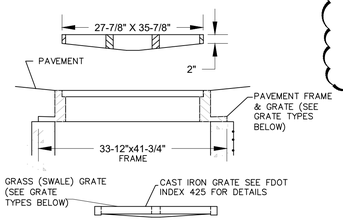




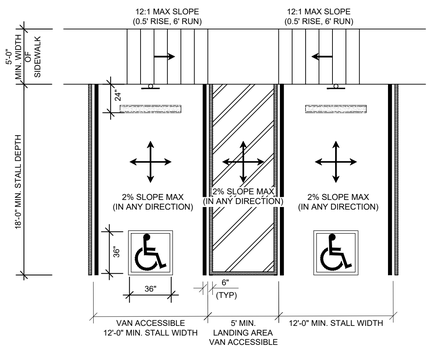
OPTIONAL GRATE TYPES:
USE USF GRATE #6212 AND FRAME #4160 IN PAVEMENT AREAS
USE USF GRATE #6210 IN GRASS AREAS
USE USF GRATE #6209 LONG SPAN IN GRASS AREAS

INLET TYPE C FRAME & GRATE DETAIL

N.T.S.

STANDARD INLET NOTES:

1. REFER TO FDOT STANDARD INDEX NO. 425 FOR ADDITIONAL AND SUPPLEMENTARY DETAILS.
2. STRUCTURES MAY BE CAST IN PLACE OR PRECAST WITH CLASS I (MIN 3000 PSI) CONCRETE PER FDOT SECTION 425. CONCRETE AS SPECIFIED BY ASTM C-478 (MIN 4000 PSI) MAY BE USED IN PRECAST ITEMS MANUFACTURED IN PLANTS AS SPECIFIED IN FDOT STANDARD INDEX NO. 201.
3. R.C.P. SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO F.D.O.T. SEC. 425.
4. PLACE SOD 4' ON ALL SIDES OF INLET IN GREEN AREAS UNLESS OTHERWISE NOTED.
5. ALL INLET GRATES SHALL BE COVERED WITH FILTER FABRIC DURING CONSTRUCTION.
6. A 2' SUMP SHALL BE REQUIRED WHERE SHOWN



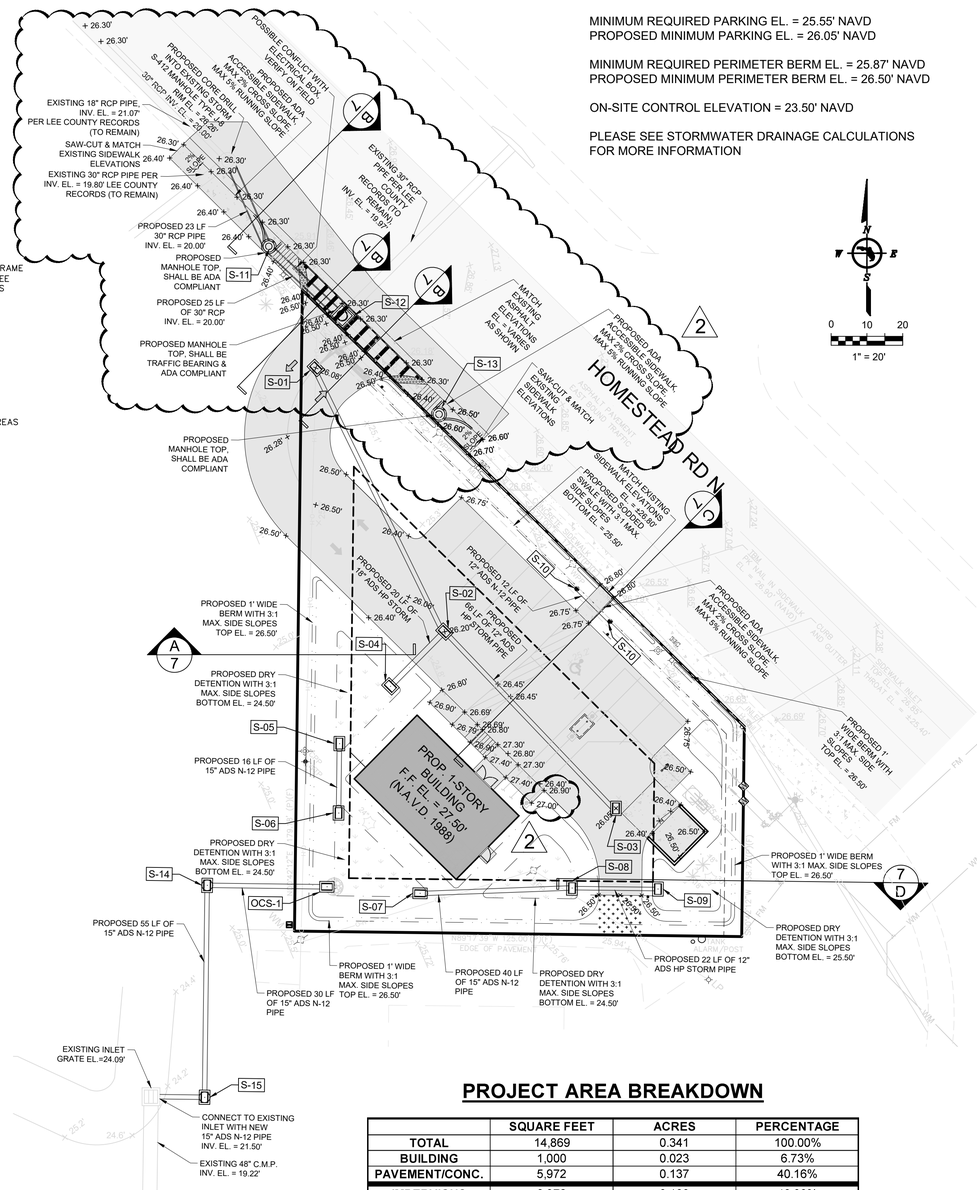
ACCESSIBLE STALL GRADING DETAIL

N.T.S.

NOTE: VERTICAL ACCESSIBLE SIGN DOES NOT HAVE TO BE POLE-MOUNTED AND MAY BE MOUNTED TO THE BUILDING FASCIA INSTEAD.

ADA PARKING

PROPOSED ADA PARKING 2% MAX SLOPE ALL DIRECTIONS



SURFACE WATER MGMT. ELEVATIONS

PEAK STAGES PER SURFACE WATER MGMT. CALCULATIONS:

100 YR 72 HR = 26.92' NAVD
25 YR 72 HR = 25.87' NAVD
10 YR 24 HR = 25.55' NAVD
5 YR 24 HR = 25.30' NAVD

MINIMUM REQUIRED F.F.E. = 26.92' NAVD
PROPOSED F.F.E. = 27.50' NAVD

MINIMUM REQUIRED PARKING EL. = 25.55' NAVD
PROPOSED MINIMUM PARKING EL. = 26.05' NAVD

MINIMUM REQUIRED PERIMETER BERM EL. = 25.87' NAVD
PROPOSED MINIMUM PERIMETER BERM EL. = 26.50' NAVD

ON-SITE CONTROL ELEVATION = 23.50' NAVD

PLEASE SEE STORMWATER DRAINAGE CALCULATIONS FOR MORE INFORMATION

STRUCTURE TABLE:

OCS-1
(OUTFALL CONTROL STRUCTURE)
PROP. MODIFIED TYPE 'C' INLET
RIM EL. = 26.30' NAVD
INV. EL. = 23.50' (3"Ø BLEEDER)
INV. EL. = 23.50' (15" SD)
SUMP EL. = 21.50' NAVD

S-01
PROP. 24" NYLOPLAST DRAIN BASIN W/ 24" H-20 RATED STANDARD GATE
GRATE EL. = 26.08'
INV. EL. = 22.75' (15" ADS HP STORM)

S-02
PROP. 24" NYLOPLAST DRAIN BASIN W/ 24" H-20 RATED STANDARD GATE
GRATE EL. = 26.20'
INV. EL. (N) = 22.50' (15" ADS HP STORM)
INV. EL. (W) = 22.50' (18" ADS HP STORM)
INV. EL. (S) = 22.75' (12" ADS HP STORM)

S-03
PROP. 24" NYLOPLAST DRAIN BASIN W/ 24" H-20 RATED STANDARD GATE
GRATE EL. = 26.05'
INV. EL. = 23.00' (12" ADS HP STORM)

S-04
PROP. 24" NYLOPLAST DRAIN BASIN W/ 24" DROP-IN STANDARD GRATE
GRATE EL. = 25.50'
INV. EL. = 22.50' (18" ADS HP STORM)

S-05
PROP. 24" NYLOPLAST DRAIN BASIN W/ 24" DROP-IN STANDARD GRATE
GRATE EL. = 25.50'
INV. EL. = 22.50' (15" ADS N-12 PIPE)

S-06
PROP. 24" NYLOPLAST DRAIN BASIN W/ 24" DROP-IN STANDARD GRATE
GRATE EL. = 25.50'
INV. EL. = 22.50' (15" ADS N-12 PIPE)

S-07
PROP. 24" NYLOPLAST DRAIN BASIN W/ 24" DROP-IN STANDARD GRATE
GRATE EL. = 25.50'
INV. EL. = 22.50' (15" ADS N-12 PIPE)

S-08
PROP. 24" NYLOPLAST DRAIN BASIN W/ 24" DROP-IN STANDARD GRATE
GRATE EL. = 25.50'
INV. EL. (W) = 22.50' (15" ADS N-12 PIPE)
INV. EL. (E) = 22.50' (12" ADS HP STORM)

S-09
PROP. 24" NYLOPLAST DRAIN BASIN W/ 24" DROP-IN STANDARD GRATE
GRATE REM EL. = 26.00'
INV. EL. = 23.00' (12" ADS HP STORM)

S-10
PROP. 12" NYLOPLAST INLINE DRAIN
GRATE EL. = 25.75'
INV. EL. = 23.50' (12" ADS N-12 PIPE)

S-11
TYPE '2' INLET FDOT INDEX 210
ADA COMPLIANT TOP
RIM EL. = 26.60'
INV. EL. (W) = 20.00' (30" RCP)
INV. EL. (E) = 20.00' (30" RCP)

S-12
PROP. JUNCTION BOX
TRAFFIC BEARING ADA COMPLIANT TOP
RIM EL. = 26.30'
INV. EL. (W) = 20.00' (30" RCP)
INV. EL. (E) = 20.10' (24" RCP)
INV. EL. (N) = 19.97' (30" RCP)

S-13
PROP. TYPE '1' INLET FDOT INDEX 210
ADA COMPLIANT TOP
RIM EL. = 26.60'
INV. EL. (W) = 20.10' (24" RCP)
INV. EL. (E) = 20.09' (24" RCP)

S-14
PROP. 24" NYLOPLAST DRAIN BASIN W/ 24" DROP-IN STANDARD GRATE
RIM EL. = 25.00'
INV. EL. (E) = 22.50' (15" ADS N-12 PIPE)
INV. EL. (S) = 22.50' (15" ADS N-12 PIPE)

S-15
PROP. 24" NYLOPLAST DRAIN BASIN W/ 24" DROP-IN STANDARD GRATE
RIM EL. = 24.50'
INV. EL. (N) = 22.00' (15" ADS N-12 PIPE)
INV. EL. (W) = 22.00' (15" ADS N-12 PIPE)

WATER QUALITY CALCULATIONS:

1. First inch of run-off:
   1.0 in. x 14,869 S.F. x 1 ft. / 12 in. = 1,239 C.F.
2. 2.5 in. times percent imperviousness:
   a. 14,869 S.F. - 1,000 S.F. (Roofs) = 13,869 S.F. site area for water quality
   b. 13,869 S.F. - 7,897 S.F. (Green Area) = 5,972 S.F. of impervious area
   c. 5,972 S.F. / 13,869 S.F. = 43.10 % impervious for water quality
   d. 2.5 in. x 0.431 = 1.08 inches to be treated
   e. 1.08 in. x 14,869 S.F. x 1 ft. / 12 in = 1,334 C.F.

Therefore, 1,334 C.F. controls for water quality.

All proposed retention areas will be dry detention; thus additional pre-treatment is not required.

1,334 C.F. (0.031 Ac.-Ft.) Required for Water Quality provided below elevation 25.50' N.A.V.D.

PROJECT AREA BREAKDOWN

	SQUARE FEET	ACRES	PERCENTAGE
TOTAL	14,869	0.341	100.00%
BUILDING	1,000	0.023	6.73%
PAVEMENT/CONC.	5,972	0.137	40.16%
IMPERVIOUS	6,972	0.160	46.89%
PERVIOUS	7,897	0.181	53.11%

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

NOTES:

1. ALL CRITICAL SPOT GRADES ALONG CURBS ARE **BOTTOM OF CURB** ELEVATIONS UNLESS OTHERWISE SPECIFIED.
2. ALL EXISTING & PROPOSED GRADE ELEVATIONS SHOWN REFER TO N.A.V.D.
3. THESE PLANS MAY HAVE BEEN REDUCED OR INCREASED IN SIZE BY REPRODUCTION(S). THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

PROJECT: 24-154
DATE: 07/24

ANDRES BORAL, PE, MBA
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ANDRES@BORALENGINEERING.COM
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BORAL ENGINEERING
WWW.BORALENGINEERING.COM

OWNER:
LEE BLVD HOLDINGS, LLC.
15581 LAGUNA HILLS DRIVE,
FORT MYERS, FL 33908

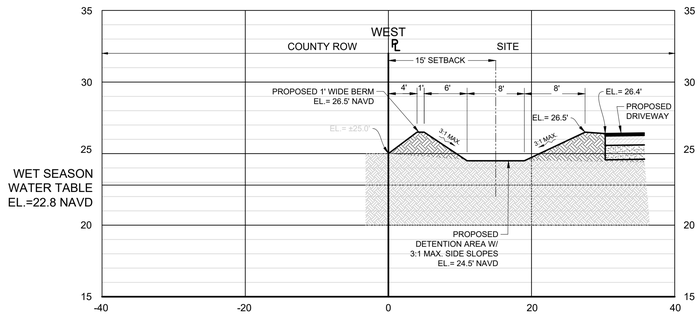
DATE	BY	REVISION DESCRIPTION
09/26/2025	GM	REVISED PER LEE COUNTY COMMENTS
02/23/2026	GM	REVISED PER LEE COUNTY COMMENTS
04/23/2026	GM	REVISED PER LEE COUNTY COMMENTS

ALABAMA RD N RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

GRADING, PAVING & DRAINAGE PLAN

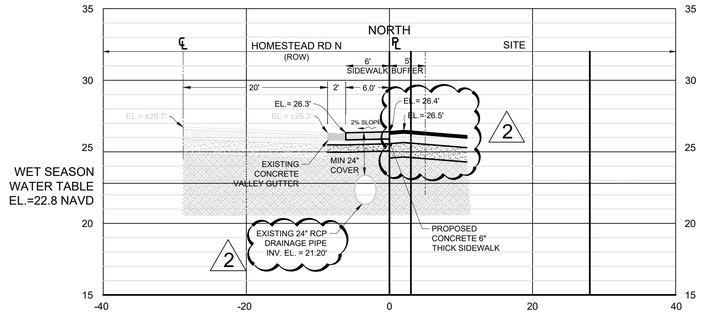
SHEET 5 OF 12

Andres Boral, State of Florida, Professional Engineer, License No. 80373. This item has been electronically signed and sealed by Andres Boral, PE on the date indicated here using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



SECTION "A"

SCALES: 1" = 20' (HORIZ.)
1" = 10' (VERT.)



SECTION "B"

SCALES: 1" = 20' (HORIZ.)
1" = 10' (VERT.)

SECTION "C"

SCALES: 1" = 20' (HORIZ.)
1" = 10' (VERT.)

SECTION "D"

SCALES: 1" = 20' (HORIZ.)
1" = 10' (VERT.)

PROPOSED UTILITY IMPROVEMENTS PROFILE

SCALES: 1" = 20' (HORIZ.)
1" = 10' (VERT.)

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION

ANDRES BORAL, PE, MBA
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OWNER:
LEE BLVD HOLDINGS, LLC
15591 LAGUNA HILLS DRIVE,
FORT MYERS, FL 33908

DATE	BY	REVISION DESCRIPTION
09/26/2025	GM	REVISED PER LEE COUNTY COMMENTS
02/23/2026	GM	REVISED PER LEE COUNTY COMMENTS
04/23/2026	GM	REVISED PER LEE COUNTY COMMENTS

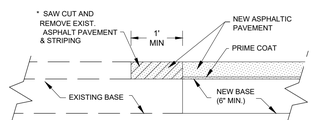
PROJECT: 24-154
DATE: 07/24

ALABAMA RD N RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

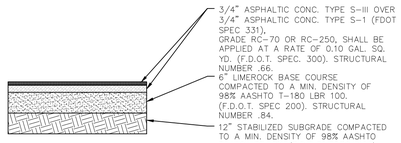
CROSS SECTIONS & PROFILES

SHEET 7 OF 12

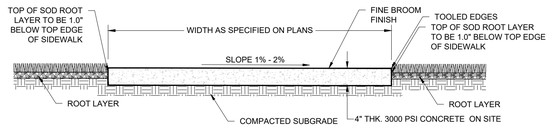
Andres Boral, State of Florida, Professional Engineer, License No. 80373. This item has been electronically signed and sealed by Andres Boral, PE on the date indicated here using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



ASPHALTIC PAVEMENT JOINT DETAIL
N.T.S.

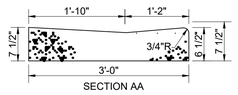


ONSITE PAVEMENT DETAIL
N.T.S.



TYPICAL SIDEWALK SECTION
(LEVEL GRASSED AREAS)
N.T.S.

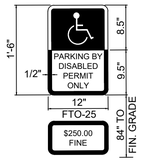
NOTES:
1. CONCRETE TO BE F.D.O.T. CLASS I, 3,000 PSI MINIMUM, WITH 1-1/2" DEEP CONTRACTION JOINTS AT 5' INTERVALS.
2. ALL PROPOSED SIDEWALK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE 6" PORTLAND CEMENT CONCRETE OVER 4" OF COMPACTED LIMEROCK, OVER 6" THICK STABILIZED SUBGRADE LBR40.



SECTION AA

SECTION CC

VALLEY GUTTER
N.T.S



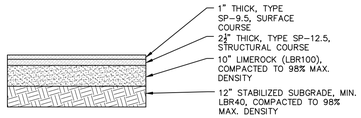
HANDICAP SIGN

ALL LETTERS ARE 1" SERIES 'C'. TOP PORTION OF SIGN SHALL HAVE A REFLECTIVE BLUE BACKGROUND W/ WHITE REFLECTIVE LEGEND & BORDER.

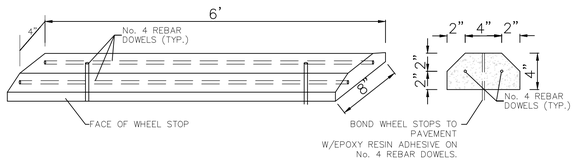
BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTIVE WHITE BACKGROUND W/ BLACK OPAQUE LEGEND & BORDER.

HANDICAP SPACE SIGNAGE PER FDOT INDEX 700-102.

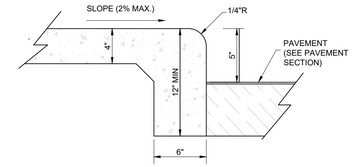
NOTE:
1. VERTICAL ACCESSIBLE SIGN DOES NOT HAVE TO BE POLE-MOUNTED AND MAY BE MOUNTED TO THE BUILDING FASCIA INSTEAD.



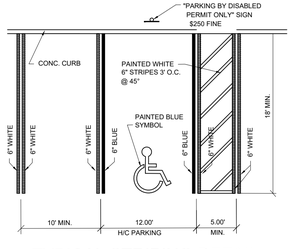
R.O.W PAVEMENT DETAIL
N.T.S.



6' PRE-CAST CONCRETE WHEEL STOP
N.T.S.

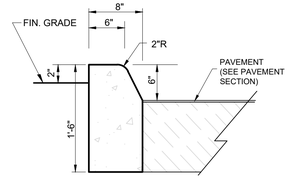


THICKENED EDGE CONC WALK
CB-TEDGE.dwg (2007)
N.T.S.

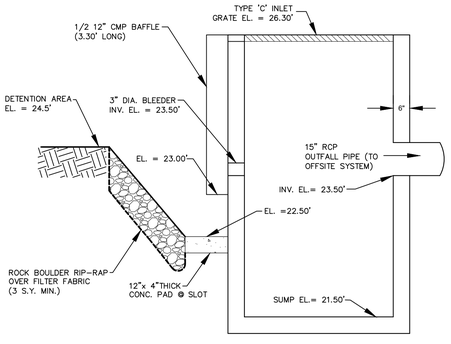


TYPICAL STRIPING DETAIL
N.T.S.

STRIPING NOTES:
1. ALL PAVEMENT MARKING AND STRIPING WITHIN SITE SHALL BE IN ACCORDANCE WITH M.U.T.C.D.
2. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE TWO (2) COATS OF TRAFFIC REFLECTIVE PAINT (F.D.O.T. SECT. #710) UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATION.
3. ALL MARKING WITHIN A PUBLIC R/W SHALL BE IN THERMOPLASTIC. (F.D.O.T. SEC#711)
4. ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH EXISTING PAVEMENT MARKINGS SHALL BE REMOVED BY HYDROBLASTING.



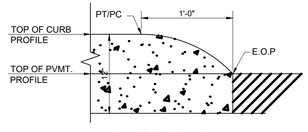
TYPE "D" CURB
N.T.S.



SECTION

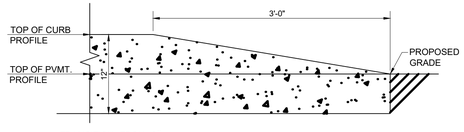
MODIFIED FDOT TYPE 'C' INLET

CONTROL STRUCTURE OCS-1
N.T.S.



TRANSITION FROM 6" TO 0" HEIGHT

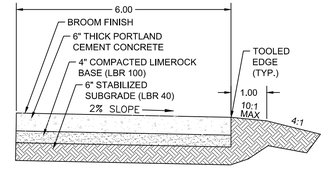
1' CURB ENDING DETAIL
N.T.S.



TRANSITION FROM 6" TO 0" HEIGHT

3' CURB ENDING DETAIL
N.T.S.

APPROVAL SUBMITTAL PLANS FOR CONSTRUCTION



R.O.W. SIDEWALK DETAIL
N.T.S.

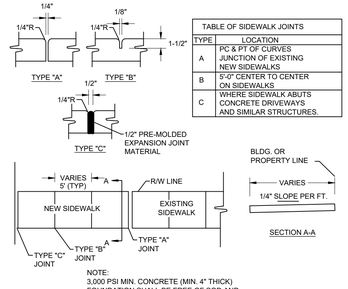


TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
A	PC & PT OF CURVES JUNCTION OF EXISTING NEW SIDEWALKS
B	5'-0" CENTER TO CENTER ON SIDEWALKS
C	WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS AND SIMILAR STRUCTURES.

NOTE:
3,000 PSI MIN. CONCRETE (MIN. 4" THICK) FOUNDATION SHALL BE FREE OF SOD AND OTHER ORGANIC MATERIAL. SAW CUT JOINTS SHALL BE ON 5' CENTER.

SIDEWALK JOINTS DETAIL
N.T.S.

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(P) 239-692-0509

BORAL ENGINEERING
WWW.BORALENGINEERING.COM

OWNER:
LEE BLVD HOLDINGS, LLC
15581 LAGUNA HILLS DRIVE,
FORT MYERS, FL 33908

DATE	BY	REVISION DESCRIPTION
09/26/2025	GM	REVISED PER LEE COUNTY COMMENTS
02/23/2026	GM	REVISED PER LEE COUNTY COMMENTS

PROJECT: 24-154
DATE: 07/24

ALABAMA RD N RESTAURANT
49 ALABAMA ROAD N,
LEHIGH ACRES, FL 33936

GRADING, PAVING AND DRAINAGE DETAILS

SHEET 8 OF 12

ALABAMA RD N

RESTAURANT

Project Location:

49 Alabama Rd. N,
Lehigh Acres, Florida 33936

DRAINAGE CALCULATIONS

Date: 10/01/2024

Prepared by:

Andres Boral, PE, MBA
Florida License Number: 80373
Boral Engineering & Design, Inc.
andres@boralengineering.com
(P) 239-692-0509
711 5th Avenue South, Suite 209
Naples, FL 34102

Project Background

The proposed project is located within Lee County, encompassing +/- .34 acres along Gretchen Ave.

The property is currently undeveloped and flat and contains no wetlands of any kind.

There is an existing inlet in the sidewalk along Homestead Road where the proposed system will connect to.

The project proposes an above ground dry detention stormwater management system with basin bottom at least 1' above the wet season water table.

Proposed Site Area Breakdown

PROJECT AREA BREAKDOWN

	SQUARE FEET	ACRES	PERCENTAGE
TOTAL	14,869	0.341	100.00%
BUILDING	1,000	0.023	6.73%
PAVEMENT/CONC.	5,972	0.137	40.16%
IMPERVIOUS	6,972	0.160	46.89%
PERVIOUS	7,897	0.181	53.11%

Pre-development Discharge

The 3-day 25-year design storm in the project area is 11.00 inches. Based on the Santa Barbara Unit Hydrograph, the maximum hourly rate of rainfall during this storm is 6 in/hr. A "C" factor of 0.2 will be used for pre-development. Based upon these figures, and utilizing the rational formula:

$Q = CiA$

C = 0.2 (Unimproved areas 0.1-0.3)

i = 6 in.

A = .34 Acres

Q = (0.2) x 6.0 in. x .34 Ac.

Q (pre-development) = .408 c.f.s.

The project proposes the minimum 3" bleeder.

Design Storms

Based upon the design storm maps as found in the E.R.P. Information Manual, the design storms for the project are as follows:

1-day, 5-year: 5.5 in.

3-day, 25-year: 11.0 in.

3-day, 100-year: 14.0 in.

Control Elevation

The proposed control elevation for this project is 23.50' N.A.V.D. based on the following:

1. Per ERP 36-08752-P, which is within 0.10 miles, the wet season water table is 22.80' N.A.V.D. To be conservative, the control elevation will be 23.50' NAVD and the proposed basin bottom will be 24.50' NAVD.

Water Quality

1. First inch of run-off:

   1 in. x 14,869 S.F. x 1 ft. / 12 in. =1,239 C.F.

2. 2.5 in. times percent impervious area:

   a. 14,869 S.F. – 1,000 S.F. (Roof) = 13,869 S.F. of site area for water quality
      13,869 S.F. – 7,897 S.F. (Green Area) = 5,972 S.F. of impervious area
   b. 5,972 S.F. / 13,869 S.F. = .431 % impervious for water quality

d. 2.5 in. x 0.431 = 1.08 inches to be treated

e. 1.08 in. x 14,869 S.F. x 1 ft. / 12 in = 1,334 C.F.

Therefore, 1,334 C.F. controls for water quality.

1,334 C.F. (0.031 Ac.-Ft.) Required for Water Quality provided below elevation 25.50' NAVD

Water Quantity (Flood Attenuation)

Please see the attached Stage/Storage Chart for further information.

Soil Storage

The wet season water table for this project is 22.8' N.A.V.D.

The average grade over proposed pervious area is: 25.5' N.A.V.D.

= 25.5' – 22.8' = 2.70'

From the Soil Storage Chart in the E.R.P. Information Manual, Compacted Normal Typical Sandy, 5.37 in. of soil storage under pervious areas is available.

5.37 in. x 7,897 S.F. x 1 ft. / 12 in. = 3,534 C.F. over pervious areas

3,534 C.F. / 14,869 S.F. x 12 in. / 1 ft. = 2.85 in. of Soil Storage Over the Entire Site

Design of the Perimeter Berm

After several iterations using Cascade 2001, Version 1.0, it was determined that the maximum stage attained during the 3-day, 25-year design storm is elevation 25.87' N.A.V.D. Please see the attached hydrograph detailing these results. The minimum proposed perimeter berm elevation is 26.50' N.A.V.D., to contain the 3-day, 25-yr design storm.

Minimum Building Finish Floor Elevation

Based upon State of Florida regulations, the minimum building finish floor elevation must be the greater of the maximum flood stage during the 3-day, 100-year design storm or the one foot plus the F.E.M.A. minimum finish floor elevation within the flood zone that the structure is located.

The development is located within F.E.M.A. "flood zone X". Using Cascade 2001, Version 1.0, the flood stage for the 3-day, 100-year design storm is elevation 26.92' N.A.V.D. Please see the attached hydrograph detailing these results. The actual proposed finished floor elevation is 27.50' N.A.V.D.

Minimum Road Crown and Parking Elevation

Based upon Lee County and S.F.W.M.D. guidelines, parking areas must be at a 5-year, 24-hour storm stage which is elevation 25.30' NAVD, they are proposed at a minimum of 25.92'. The elevations were calculated using Cascade 2001, Version 1.0.

ALABAMA RD RESTAURANT

Execution Date: 10/01/24
Engineer's Name: GM
Job No: 24-154

Computation Type Stage-Storage

0.00 CF
0.00 AC/FT

Starting Stage 23.50
Ending Stage 27.50
Stage Increment 0.50

Name	DRY RETENTION BOTTOM	DRY DETENTION SLOPE	SITE	ROAD AND PARKING	SIDEWALK
Area	0.023	0.041	0.117	0.133	0.005
Start Elev	24.50	24.50	25.50	26.00	26.90
End Elev		26.50	26.50	26.50	27.00

Stage Feet NGVD	Vert Storage Ac-ft	Linear Storage Ac-ft	Linear Storage Ac-ft	Linear Storage Ac-ft	Linear Storage Ac-ft	Total Storage Ac-ft
23.50	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
24.00	0.00	0.00	0.00	0.00	0.00	0.00
24.50	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
25.00	0.01	0.00	0.00	0.00	0.00	0.01
25.50	**0.02**	**0.01**	**0.00**	**0.00**	**0.00**	**0.03**
26.00	0.03	0.02	0.01	0.00	0.00	0.07
26.50	**0.05**	**0.04**	**0.06**	**0.03**	**0.00**	**0.18**
27.00	0.06	0.06	0.12	0.10	0.00	0.34
27.50	**0.07**	0.08	**0.18**	**0.17**	**0.00**	**0.50**

Project Name: ALABAMA RD RESTAURANT
Reviewer: LEE COUNTY
Project Number: 24-154
Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr
Time Step: 0.016 hr, Iterations: 10

Basin 1: Project Basin

Method: Santa Barbara Unit Hydrograph
Rainfall Distribution: SFWMD - 3day
Design Frequency: 100 year
3 Day Rainfall: 14 inches
Area: 0.341 acres
Ground Storage: 2.85 inches
Time of Concentration: 0.1 hours
Initial Stage: 23.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
23.50	0.00
24.00	0.00
24.50	0.00
25.00	0.01
25.50	0.03
26.00	0.07
26.50	0.18
27.00	0.34
27.50	0.50

Offsite Receiving Body: Offsite1

Time (hr)	Stage (ft NGVD)
0.00	22.00
60.00	22.50
360.00	22.00

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
Project Basin	26.92	72.77	23.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Project Basin	0.31	0.00	0.00	0.00	0.31	0.00

Project Name: ALABAMA RD RESTAURANT
Reviewer: LEE COUNTY
Project Number: 24-154
Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr
Time Step: 0.016 hr, Iterations: 10

Basin 1: Project Basin

Method: Santa Barbara Unit Hydrograph
Rainfall Distribution: SFWMD - 3day
Design Frequency: 25 year
3 Day Rainfall: 11 inches
Area: 0.341 acres
Ground Storage: 2.85 inches
Time of Concentration: 0.1 hours
Initial Stage: 23.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
23.50	0.00
24.00	0.00
24.50	0.00
25.00	0.01
25.50	0.03
26.00	0.07
26.50	0.18
27.00	0.34
27.50	0.50

Offsite Receiving Body: Offsite1

Time (hr)	Stage (ft NGVD)
0.00	22.00
60.00	22.50
360.00	22.00

Structure: 1

From Basin: Project Basin
To Basin: Offsite1
Structure Type: Gravity
Weir: None
Bleeder: Circular, Invert Elev = 23.5 ft NGVD, Diameter = 0.25 ft
Default Coefs: Weir Coef = 0.6, Orifice Coef = 0.6
Pipe: Diameter = 1.25 ft, Manning's n = 0.012, Length = 84 ft
US Invert Elev = 23.5 ft NGVD, DS Invert Elev = 22 ft NGVD, no flap gate

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	23.50	22.00
4.00	0.20	0.00	0.00	0.00	23.50	22.03
8.00	0.39	0.00	0.00	0.00	23.50	22.07
12.00	0.59	0.00	0.00	0.00	23.50	22.10
16.00	0.79	0.00	0.00	0.00	23.53	22.13
20.00	0.98	0.00	0.00	0.00	23.55	22.17
24.00	1.18	0.01	0.01	0.00	23.55	22.20
28.00	1.47	0.01	0.01	0.01	23.58	22.23
32.00	1.76	0.01	0.01	0.01	23.58	22.27
36.00	2.04	0.01	0.01	0.01	23.59	22.30
40.00	2.33	0.02	0.02	0.02	23.59	22.33
44.00	2.62	0.02	0.02	0.02	23.60	22.37
48.00	2.91	0.02	0.02	0.03	23.60	22.40
52.00	3.27	0.03	0.03	0.04	23.63	22.43
56.00	4.01	0.07	0.07	0.05	23.72	22.47
60.00	8.22	1.71	0.34	0.10	25.72	22.50

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
64.00	10.03	0.08	0.23	0.20	24.58	22.49
68.00	10.61	0.05	0.05	0.22	23.68	22.49
72.00	11.00	0.03	0.03	0.23	23.64	22.48
76.00	11.00	0.00	0.00	0.23	23.50	22.47
80.00	11.00	0.00	0.00	0.23	23.50	22.47
84.00	11.00	0.00	0.00	0.23	23.50	22.46
88.00	11.00	0.00	0.00	0.23	23.50	22.45
92.00	11.00	0.00	0.00	0.23	23.50	22.45
96.00	11.00	0.00	0.00	0.23	23.50	22.44
100.00	11.00	0.00	0.00	0.23	23.50	22.43
104.00	11.00	0.00	0.00	0.23	23.50	22.43
108.00	11.00	0.00	0.00	0.23	23.50	22.42
112.00	11.00	0.00	0.00	0.23	23.50	22.41
116.00	11.00	0.00	0.00	0.23	23.50	22.41
120.00	11.00	0.00	0.00	0.23	23.50	22.40
124.00	11.00	0.00	0.00	0.23	23.50	22.39
128.00	11.00	0.00	0.00	0.23	23.50	22.39
132.00	11.00	0.00	0.00	0.23	23.50	22.38
136.00	11.00	0.00	0.00	0.23	23.50	22.37
140.00	11.00	0.00	0.00	0.23	23.50	22.37
144.00	11.00	0.00	0.00	0.23	23.50	22.36
148.00	11.00	0.00	0.00	0.23	23.50	22.35
152.00	11.00	0.00	0.00	0.23	23.50	22.35
156.00	11.00	0.00	0.00	0.23	23.50	22.34
160.00	11.00	0.00	0.00	0.23	23.50	22.33
164.00	11.00	0.00	0.00	0.23	23.50	22.33
168.00	11.00	0.00	0.00	0.23	23.50	22.32
172.00	11.00	0.00	0.00	0.23	23.50	22.31
176.00	11.00	0.00	0.00	0.23	23.50	22.31
180.00	11.00	0.00	0.00	0.23	23.50	22.30
184.00	11.00	0.00	0.00	0.23	23.50	22.29
188.00	11.00	0.00	0.00	0.23	23.50	22.29
192.00	11.00	0.00	0.00	0.23	23.50	22.28
196.00	11.00	0.00	0.00	0.23	23.50	22.27
200.00	11.00	0.00	0.00	0.23	23.50	22.27
204.00	11.00	0.00	0.00	0.23	23.50	22.26
208.00	11.00	0.00	0.00	0.23	23.50	22.25
212.00	11.00	0.00	0.00	0.23	23.50	22.25
216.00	11.00	0.00	0.00	0.23	23.50	22.24
220.00	11.00	0.00	0.00	0.23	23.50	22.23
224.00	11.00	0.00	0.00	0.23	23.50	22.23
228.00	11.00	0.00	0.00	0.23	23.50	22.22
232.00	11.00	0.00	0.00	0.23	23.50	22.21
236.00	11.00	0.00	0.00	0.23	23.50	22.21
240.00	11.00	0.00	0.00	0.23	23.50	22.20
244.00	11.00	0.00	0.00	0.23	23.50	22.19
248.00	11.00	0.00	0.00	0.23	23.50	22.19
252.00	11.00	0.00	0.00	0.23	23.50	22.18
256.00	11.00	0.00	0.00	0.23	23.50	22.17
260.00	11.00	0.00	0.00	0.23	23.50	22.17
264.00	11.00	0.00	0.00	0.23	23.50	22.16
268.00	11.00	0.00	0.00	0.23	23.50	22.15
272.00	11.00	0.00	0.00	0.23	23.50	22.15
276.00	11.00	0.00	0.00	0.23	23.50	22.14
280.00	11.00	0.00	0.00	0.23	23.50	22.13
284.00	11.00	0.00	0.00	0.23	23.50	22.13
288.00	11.00	0.00	0.00	0.23	23.50	22.12
292.00	11.00	0.00	0.00	0.23	23.50	22.11
296.00	11.00	0.00	0.00	0.23	23.50	22.11
300.00	11.00	0.00	0.00	0.23	23.50	22.10
304.00	11.00	0.00	0.00	0.23	23.50	22.09
308.00	11.00	0.00	0.00	0.23	23.50	22.09
312.00	11.00	0.00	0.00	0.23	23.50	22.08
316.00	11.00	0.00	0.00	0.23	23.50	22.07
320.00	11.00	0.00	0.00	0.23	23.50	22.07
324.00	11.00	0.00	0.00	0.23	23.50	22.06
328.00	11.00	0.00	0.00	0.23	23.50	22.05
332.00	11.00	0.00	0.00	0.23	23.50	22.05
336.00	11.00	0.00	0.00	0.23	23.50	22.04

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
340.00	11.00	0.00	0.00	0.23	23.50	22.03
344.00	11.00	0.00	0.00	0.23	23.50	22.03
348.00	11.00	0.00	0.00	0.23	23.50	22.02
352.00	11.00	0.00	0.00	0.23	23.50	22.01
356.00	11.00	0.00	0.00	0.23	23.50	22.01
360.00	11.00	0.00	0.00	0.23	23.50	22.00

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.35	60.52	0.00	0.00

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
Project Basin	25.87	60.52	23.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Project Basin	0.23	0.00	0.23	0.00	0.00	0.00

Project Name: ALABAMA RD RESTAURANT
Reviewer: LEE COUNTY
Project Number: 24-154
Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr
Time Step: 0.016 hr, Iterations: 10

Basin 1: Project Basin

Method: Santa Barbara Unit Hydrograph
Rainfall Distribution: SFWMD - 24 hr
Design Frequency: 5 year
1 Day Rainfall: 5.5 inches
Area: 0.341 acres
Ground Storage: 2.85 inches
Time of Concentration: 0.1 hours
Initial Stage: 23.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
23.50	0.00
24.00	0.00
24.50	0.00
25.00	0.01
25.50	0.03
26.00	0.07
26.50	0.18
27.00	0.34
27.50	0.50

Offsite Receiving Body: Offsite1

Time (hr)	Stage (ft NGVD)
0.00	22.00
60.00	22.50
360.00	22.00

Structure: 1

From Basin: Project Basin
To Basin: Offsite1
Structure Type: Gravity
Weir: None
Bleeder: Circular, Invert Elev = 23.5 ft NGVD, Diameter = 0.25 ft
Default Coefs: Weir Coef = 0.6, Orifice Coef = 0.6
Pipe: Diameter = 1.25 ft, Manning's n = 0.012, Length = 84 ft
US Invert Elev = 23.5 ft NGVD, DS Invert Elev = 22 ft NGVD, no flap gate

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	23.50	22.00
4.00	0.25	0.00	0.00	0.00	23.50	22.03
8.00	0.75	0.01	0.01	0.00	23.55	22.07
12.00	3.61	0.92	0.30	0.02	25.21	22.10
16.00	4.84	0.05	0.05	0.07	23.68	22.13
20.00	5.24	0.03	0.03	0.08	23.63	22.17
24.00	5.50	0.02	0.02	0.09	23.61	22.20
28.00	5.50	0.00	0.00	0.09	23.50	22.23
32.00	5.50	0.00	0.00	0.09	23.50	22.27
36.00	5.50	0.00	0.00	0.09	23.50	22.30
40.00	5.50	0.00	0.00	0.09	23.50	22.33
44.00	5.50	0.00	0.00	0.09	23.50	22.37
48.00	5.50	0.00	0.00	0.09	23.50	22.40
52.00	5.50	0.00	0.00	0.09	23.50	22.43
56.00	5.50	0.00	0.00	0.09	23.50	22.47
60.00	5.50	0.00	0.00	0.09	23.50	22.50

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
64.00	5.50	0.00	0.00	0.09	23.50	22.49
68.00	5.50	0.00	0.00	0.09	23.50	22.49
72.00	5.50	0.00	0.00	0.09	23.50	22.48
76.00	5.50	0.00	0.00	0.09	23.50	22.47
80.00	5.50	0.00	0.00	0.09	23.50	22.47
84.00	5.50	0.00	0.00	0.09	23.50	22.46
88.00	5.50	0.00	0.00	0.09	23.50	22.45
92.00	5.50	0.00	0.00	0.09	23.50	22.45
96.00	5.50	0.00	0.00	0.09	23.50	22.44
100.00	5.50	0.00	0.00	0.09	23.50	22.43
104.00	5.50	0.00	0.00	0.09	23.50	22.43
108.00	5.50	0.00	0.00	0.09	23.50	22.42
112.00	5.50	0.00	0.00	0.09	23.50	22.41
116.00	5.50	0.00	0.00	0.09	23.50	22.41
120.00	5.50	0.00	0.00	0.09	23.50	22.40
124.00	5.50	0.00	0.00	0.09	23.50	22.39
128.00	5.50	0.00	0.00	0.09	23.50	22.39
132.00	5.50	0.00	0.00	0.09	23.50	22.38
136.00	5.50	0.00	0.00	0.09	23.50	22.37
140.00	5.50	0.00	0.00	0.09	23.50	22.37
144.00	5.50	0.00	0.00	0.09	23.50	22.36
148.00	5.50	0.00	0.00	0.09	23.50	22.35
152.00	5.50	0.00	0.00	0.09	23.50	22.35
156.00	5.50	0.00	0.00	0.09	23.50	22.34
160.00	5.50	0.00	0.00	0.09	23.50	22.33
164.00	5.50	0.00	0.00	0.09	23.50	22.33
168.00	5.50	0.00	0.00	0.09	23.50	22.32
172.00	5.50	0.00	0.00	0.09	23.50	22.31
176.00	5.50	0.00	0.00	0.09	23.50	22.31
180.00	5.50	0.00	0.00	0.09	23.50	22.30
184.00	5.50	0.00	0.00	0.09	23.50	22.29
188.00	5.50	0.00	0.00	0.09	23.50	22.29
192.00	5.50	0.00	0.00	0.09	23.50	22.28
196.00	5.50	0.00	0.00	0.09	23.50	22.27
200.00	5.50	0.00	0.00	0.09	23.50	22.27
204.00	5.50	0.00	0.00	0.09	23.50	22.26
208.00	5.50	0.00	0.00	0.09	23.50	22.25
212.00	5.50	0.00	0.00	0.09	23.50	22.25
216.00	5.50	0.00	0.00	0.09	23.50	22.24
220.00	5.50	0.00	0.00	0.09	23.50	22.23
224.00	5.50	0.00	0.00	0.09	23.50	22.23
228.00	5.50	0.00	0.00	0.09	23.50	22.22
232.00	5.50	0.00	0.00	0.09	23.50	22.21
236.00	5.50	0.00	0.00	0.09	23.50	22.21
240.00	5.50	0.00	0.00	0.09	23.50	22.20
244.00	5.50	0.00	0.00	0.09	23.50	22.19
248.00	5.50	0.00	0.00	0.09	23.50	22.19
252.00	5.50	0.00	0.00	0.09	23.50	22.18
256.00	5.50	0.00	0.00	0.09	23.50	22.17
260.00	5.50	0.00	0.00	0.09	23.50	22.17
264.00	5.50	0.00	0.00	0.09	23.50	22.16
268.00	5.50	0.00	0.00	0.09	23.50	22.15
272.00	5.50	0.00	0.00	0.09	23.50	22.15
276.00	5.50	0.00	0.00	0.09	23.50	22.14
280.00	5.50	0.00	0.00	0.09	23.50	22.13
284.00	5.50	0.00	0.00	0.09	23.50	22.13
288.00	5.50	0.00	0.00	0.09	23.50	22.12
292.00	5.50	0.00	0.00	0.09	23.50	22.11
296.00	5.50	0.00	0.00	0.09	23.50	22.11
300.00	5.50	0.00	0.00	0.09	23.50	22.10
304.00	5.50	0.00	0.00	0.09	23.50	22.09
308.00	5.50	0.00	0.00	0.09	23.50	22.09
312.00	5.50	0.00	0.00	0.09	23.50	22.08
316.00	5.50	0.00	0.00	0.09	23.50	22.07
320.00	5.50	0.00	0.00	0.09	23.50	22.07
324.00	5.50	0.00	0.00	0.09	23.50	22.06
328.00	5.50	0.00	0.00	0.09	23.50	22.05
332.00	5.50	0.00	0.00	0.09	23.50	22.05
336.00	5.50	0.00	0.00	0.09	23.50	22.04

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
340.00	5.50	0.00	0.00	0.09	23.50	22.03
344.00	5.50	0.00	0.00	0.09	23.50	22.03
348.00	5.50	0.00	0.00	0.09	23.50	22.02
352.00	5.50	0.00	0.00	0.09	23.50	22.01
356.00	5.50	0.00	0.00	0.09	23.50	22.01
360.00	5.50	0.00	0.00	0.09	23.50	22.00

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.31	12.20	0.00	0.00

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
Project Basin	25.30	12.20	23.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Project Basin	0.09	0.00	0.09	0.00	0.00	0.00

ALABAMA RD N

RESTAURANT

Project Location:

49 Alabama Rd. N,
Lehigh Acres, Florida 33936

DRAINAGE CALCULATIONS

Date: 04/24/2026

Prepared by:

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711 5th Avenue South, Suite 209
Naples, FL 34102

Project Background

The proposed project is located within Lee County, encompassing +/- .34 acres along Homestead Rd N.

The property is currently undeveloped and flat and contains no wetlands of any kind.

Project proposes to discharge into an existing inlet that ties to Dave Canal.

The project proposes an above ground dry detention stormwater management system with basin bottom at least 1' above the wet season water table.

Proposed Site Area Breakdown

PROJECT AREA BREAKDOWN

	SQUARE FEET	ACRES	PERCENTAGE
TOTAL	14,869	0.341	100.00%
BUILDING	1,000	0.023	6.73%
PAVEMENT/CONC.	5,972	0.137	40.16%
IMPERVIOUS	6,972	0.160	46.89%
PERVIOUS	7,897	0.181	53.11%

Pre-development Discharge

The 3-day 25-year design storm in the project area is 11.00 inches. Based on the Santa Barbara Unit Hydrograph, the maximum hourly rate of rainfall during this storm is 6 in/hr. A "C" factor of 0.2 will be used for pre-development. Based upon these figures, and utilizing the rational formula:

Q = CiA

C = 0.2 (Unimproved areas 0.1-0.3)

i = 6 in.

A = .34 Acres

Q = (0.2) x 6.0 in. x .34 Ac.

Q (pre-development) = **.408 c.f.s.**

The project proposes the minimum 3" bleeder.

Design Storms

Based upon the design storm maps as found in the E.R.P. Information Manual, the design storms for the project are as follows:

1-day, 5-year: 5.5 in.

3-day, 25-year: 11.0 in.

3-day, 100-year: 14.0 in.

Control Elevation

The proposed control elevation for this project is **23.50' N.A.V.D.** based on the following:

1. Per ERP 36-08752-P, which is within 0.10 miles, the wet season water table is 22.80' N.A.V.D. To be conservative, the control elevation will be 23.50' NAVD and the proposed basin bottom will be **24.50' NAVD.**

Water Quality

1. First inch of run-off:

   1 in. x 14,869 S.F. x 1 ft. / 12 in. =1,239 C.F.

2. 2.5 in. times percent impervious area:

   a. 14,869 S.F. – 1,000 S.F. (Roof) = 13,869 S.F. of site area for water quality
      13,869 S.F. – 7,897 S.F. (Green Area) = 5,972 S.F. of impervious area
   b. 5,972 S.F. / 13,869 S.F. = .431 % impervious for water quality

   d. 2.5 in. x 0.431 = 1.08 inches to be treated

e. 1.08 in. x 14,869 S.F. x 1 ft. / 12 in = 1,334 C.F.

Therefore, 1,334 C.F. controls for water quality.

1,334 C.F. (0.031 Ac.-Ft.) Required for Water Quality provided below elevation 25.50' NAVD

Water Quantity (Flood Attenuation)

Please see the attached Stage/Storage Chart for further information.

Soil Storage

The wet season water table for this project is 22.8' N.A.V.D.

The average grade over proposed pervious area is: 25.5' N.A.V.D.

= 25.5' – 22.8' = 2.70'

From the Soil Storage Chart in the E.R.P. Information Manual, Compacted Normal Typical Sandy, 5.37 in. of soil storage under pervious areas is available.

5.37 in. x 7,897 S.F. x 1 ft. / 12 in. = 3,534 C.F. over pervious areas

3,534 C.F. / 14,869 S.F. x 12 in. / 1 ft. = **2.85 in. of Soil Storage Over the Entire Site**

Design of the Perimeter Berm

After several iterations using Cascade 2001, Version 1.0, it was determined that the maximum stage attained during the 3-day, 25-year design storm is elevation 25.87' N.A.V.D. Please see the attached hydrograph detailing these results. The minimum proposed perimeter berm elevation is 26.50' N.A.V.D., to contain the 3-day, 25-yr design storm.

Minimum Building Finish Floor Elevation

Based upon State of Florida regulations, the minimum building finish floor elevation must be the greater of the maximum flood stage during the 3-day, 100-year design storm or the one foot plus the F.E.M.A. minimum finish floor elevation within the flood zone that the structure is located.

The development is located within F.E.M.A. “flood zone X”. Using Cascade 2001, Version 1.0, the flood stage for the 3-day, 100-year design storm is elevation 26.92’ N.A.V.D. Please see the attached hydrograph detailing these results. The actual proposed finished floor elevation is 27.50’ N.A.V.D.

Minimum Road Crown and Parking Elevation

Based upon Lee County and S.F.W.M.D. guidelines, parking areas must be at a 5-year, 24-hour storm stage which is elevation 25.30’ N.A.V.D. Per LAMSID design criteria, minimum road and parking area elevations must be at or above the 10-year, 24-hour storm stage which is 25.55’, they are proposed at a minimum of 26.05’. The elevations were calculated using Cascade 2001, Version 1.0.

ALABAMA RD RESTAURANT

Execution Date: 10/01/24
Engineer's Name: GM
Job No: 24-154

Computation Type Stage-Storage

0.00	CF
0.00	AC/FT

Starting Stage 23.50
Ending Stage 27.50
Stage Increment 0.50

Name	**DRY RETENTION BOTTOM**	**DRY DETENTION SLOPE**	**SITE**	**ROAD AND PARKING**	**SIDEWALK**
Area	0.023	0.041	0.117	0.133	0.005
Start Elev	24.50	24.50	25.50	26.00	26.90
End Elev		26.50	26.50	26.50	27.00

Stage Feet NGVD	Vert Storage Ac-ft	Linear Storage Ac-ft	Linear Storage Ac-ft	Linear Storage Ac-ft	Linear Storage Ac-ft	Total Storage Ac-ft
23.50	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
24.00	0.00	0.00	0.00	0.00	0.00	0.00
24.50	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
25.00	0.01	0.00	0.00	0.00	0.00	0.01
25.50	**0.02**	**0.01**	**0.00**	**0.00**	**0.00**	**0.03**
26.00	0.03	0.02	0.01	0.00	0.00	0.07
26.50	**0.05**	**0.04**	**0.06**	**0.03**	**0.00**	**0.18**
27.00	0.06	0.06	0.12	0.10	0.00	0.34
27.50	**0.07**	0.08	**0.18**	**0.17**	**0.00**	**0.50**

Project Name: ALABAMA RD RESTAURANT
Reviewer: LEE COUNTY
Project Number: 24-154
  Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr
  Time Step: 0.016 hr, Iterations: 10

Basin 1: Project Basin

  Method: Santa Barbara Unit Hydrograph
  Rainfall Distribution: SFWMD - 3day
  Design Frequency: 100 year
  3 Day Rainfall: 14 inches
  Area: 0.341 acres
  Ground Storage: 2.85 inches
  Time of Concentration: 0.1 hours
  Initial Stage: 23.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
23.50	0.00
24.00	0.00
24.50	0.00
25.00	0.01
25.50	0.03
26.00	0.07
26.50	0.18
27.00	0.34
27.50	0.50

Offsite Receiving Body: Offsite1

Time (hr)	Stage (ft NGVD)
0.00	23.50
60.00	24.00
360.00	23.50

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
Project Basin	26.92	72.77	23.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Project Basin	0.31	0.00	0.00	0.00	0.31	0.00

Project Name: ALABAMA RD RESTAURANT
Reviewer: LEE COUNTY
Project Number: 24-154
  Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr
  Time Step: 0.016 hr, Iterations: 10

Basin 1: Project Basin

  Method: Santa Barbara Unit Hydrograph
  Rainfall Distribution: SFWMD - 3day
  Design Frequency: 25 year
  3 Day Rainfall: 11 inches
  Area: 0.341 acres
  Ground Storage: 2.85 inches
  Time of Concentration: 0.1 hours
  Initial Stage: 23.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
23.50	0.00
24.00	0.00
24.50	0.00
25.00	0.01
25.50	0.03
26.00	0.07
26.50	0.18
27.00	0.34
27.50	0.50

Offsite Receiving Body: Offsite1

Time (hr)	Stage (ft NGVD)
0.00	23.50
60.00	24.00
360.00	23.50

Structure: 1

  From Basin: Project Basin
  To Basin: Offsite1
  Structure Type: Gravity
    Weir: None
    Bleeder: Circular, Invert Elev = 23.5 ft NGVD, Diameter = 0.25 ft
      Default Coefs: Weir Coef = 0.6, Orifice Coef = 0.6
    Pipe: Diameter = 1.25 ft, Manning's n = 0.012, Length = 84 ft
      US Invert Elev = 23.5 ft NGVD, DS Invert Elev = 22 ft NGVD, no flap gate

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	23.50	23.50
4.00	0.20	0.00	0.00	0.00	23.53	23.53
8.00	0.39	0.00	0.01	0.00	23.57	23.57
12.00	0.59	0.00	-0.02	0.00	23.59	23.60
16.00	0.79	0.00	0.01	0.00	23.64	23.63
20.00	0.98	0.00	0.02	0.00	23.68	23.67
24.00	1.18	0.01	0.03	0.00	23.71	23.70
28.00	1.47	0.01	0.03	0.01	23.75	23.73
32.00	1.76	0.01	0.02	0.01	23.77	23.77
36.00	2.04	0.01	0.01	0.01	23.80	23.80
40.00	2.33	0.02	0.02	0.02	23.84	23.83
44.00	2.62	0.02	0.02	0.02	23.87	23.87
48.00	2.91	0.02	0.02	0.03	23.91	23.90
52.00	3.27	0.03	0.03	0.04	23.95	23.93
56.00	4.01	0.07	0.07	0.05	24.04	23.97
60.00	8.22	1.71	0.31	0.09	25.76	24.00

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
64.00	10.03	0.08	0.25	0.19	25.07	23.99
68.00	10.61	0.05	0.05	0.22	24.03	23.99
72.00	11.00	0.03	0.03	0.23	24.00	23.98
76.00	11.00	0.00	0.02	0.23	23.98	23.97
80.00	11.00	0.00	0.02	0.23	23.97	23.97
84.00	11.00	0.00	0.02	0.23	23.97	23.96
88.00	11.00	0.00	0.02	0.23	23.96	23.95
92.00	11.00	0.00	0.02	0.23	23.95	23.95
96.00	11.00	0.00	0.02	0.23	23.95	23.94
100.00	11.00	0.00	0.02	0.23	23.94	23.93
104.00	11.00	0.00	0.02	0.23	23.93	23.93
108.00	11.00	0.00	0.02	0.23	23.93	23.92
112.00	11.00	0.00	0.02	0.23	23.92	23.91
116.00	11.00	0.00	0.02	0.23	23.91	23.91
120.00	11.00	0.00	0.02	0.23	23.91	23.90
124.00	11.00	0.00	0.02	0.23	23.90	23.89
128.00	11.00	0.00	0.02	0.23	23.89	23.89
132.00	11.00	0.00	0.02	0.23	23.89	23.88
136.00	11.00	0.00	0.02	0.23	23.88	23.87
140.00	11.00	0.00	0.02	0.23	23.87	23.87
144.00	11.00	0.00	0.02	0.23	23.87	23.86
148.00	11.00	0.00	0.02	0.23	23.86	23.85
152.00	11.00	0.00	0.02	0.23	23.85	23.85
156.00	11.00	0.00	0.02	0.23	23.85	23.84
160.00	11.00	0.00	0.02	0.23	23.84	23.83
164.00	11.00	0.00	0.02	0.23	23.83	23.83
168.00	11.00	0.00	0.02	0.23	23.83	23.82
172.00	11.00	0.00	0.02	0.23	23.82	23.81
176.00	11.00	0.00	0.02	0.23	23.81	23.81
180.00	11.00	0.00	0.02	0.23	23.81	23.80
184.00	11.00	0.00	0.02	0.23	23.80	23.79
188.00	11.00	0.00	0.02	0.23	23.79	23.79
192.00	11.00	0.00	0.02	0.23	23.79	23.78
196.00	11.00	0.00	0.02	0.23	23.78	23.77
200.00	11.00	0.00	0.02	0.23	23.77	23.77
204.00	11.00	0.00	0.02	0.23	23.77	23.76
208.00	11.00	0.00	0.02	0.23	23.76	23.75
212.00	11.00	0.00	0.03	0.23	23.76	23.75
216.00	11.00	0.00	0.03	0.23	23.75	23.74
220.00	11.00	0.00	0.03	0.23	23.74	23.73
224.00	11.00	0.00	0.03	0.23	23.74	23.73
228.00	11.00	0.00	0.03	0.23	23.73	23.72
232.00	11.00	0.00	0.03	0.23	23.72	23.71
236.00	11.00	0.00	0.03	0.23	23.72	23.71
240.00	11.00	0.00	0.02	0.23	23.71	23.70
244.00	11.00	0.00	0.02	0.23	23.70	23.69
248.00	11.00	0.00	0.02	0.23	23.69	23.69
252.00	11.00	0.00	0.02	0.23	23.69	23.68
256.00	11.00	0.00	0.02	0.23	23.68	23.67
260.00	11.00	0.00	0.02	0.23	23.67	23.67
264.00	11.00	0.00	0.02	0.23	23.67	23.66
268.00	11.00	0.00	0.01	0.23	23.66	23.65
272.00	11.00	0.00	0.01	0.23	23.65	23.65
276.00	11.00	0.00	0.01	0.23	23.64	23.64
280.00	11.00	0.00	0.01	0.23	23.64	23.63
284.00	11.00	0.00	0.01	0.23	23.63	23.63
288.00	11.00	0.00	-0.02	0.23	23.62	23.62
292.00	11.00	0.00	-0.02	0.23	23.61	23.61
296.00	11.00	0.00	-0.02	0.23	23.61	23.61
300.00	11.00	0.00	-0.02	0.23	23.60	23.60
304.00	11.00	0.00	-0.01	0.23	23.59	23.59
308.00	11.00	0.00	-0.01	0.23	23.59	23.59
312.00	11.00	0.00	-0.01	0.23	23.58	23.58
316.00	11.00	0.00	-0.01	0.23	23.57	23.57
320.00	11.00	0.00	-0.01	0.23	23.57	23.57
324.00	11.00	0.00	-0.01	0.23	23.56	23.56
328.00	11.00	0.00	-0.01	0.23	23.55	23.55
332.00	11.00	0.00	0.00	0.23	23.55	23.55
336.00	11.00	0.00	0.00	0.23	23.54	23.54

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
340.00	11.00	0.00	0.00	0.23	23.53	23.53
344.00	11.00	0.00	0.00	0.23	23.53	23.53
348.00	11.00	0.00	0.00	0.23	23.52	23.52
352.00	11.00	0.00	0.00	0.23	23.51	23.51
356.00	11.00	0.00	0.00	0.23	23.51	23.51
360.00	11.00	0.00	0.00	0.23	23.50	23.50

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.33	60.53	-0.03	217.08

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
Project Basin	25.92	60.53	23.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Project Basin	0.23	0.00	0.23	0.00	0.00	0.00

Project Name: ALABAMA RD RESTAURANT
Reviewer: LEE COUNTY
Project Number: 24-154
  Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr
  Time Step: 0.016 hr, Iterations: 10

Basin 1: Project Basin

  Method: Santa Barbara Unit Hydrograph
  Rainfall Distribution: SFWMD - 24 hr
  Design Frequency: 10 year
  1 Day Rainfall: 6.5 inches
  Area: 0.341 acres
  Ground Storage: 2.85 inches
  Time of Concentration: 0.1 hours
  Initial Stage: 23.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
23.50	0.00
24.00	0.00
24.50	0.00
25.00	0.01
25.50	0.03
26.00	0.07
26.50	0.18
27.00	0.34
27.50	0.50

Offsite Receiving Body: Offsite1

Time (hr)	Stage (ft NGVD)
0.00	23.50
12.00	24.00
48.00	23.50
360.00	23.50

Structure: 1

  From Basin: Project Basin
  To Basin: Offsite1
  Structure Type: Gravity
    Weir: None
    Bleeder: Circular, Invert Elev = 23.5 ft NGVD, Diameter = 0.25 ft
      Default Coefs: Weir Coef = 0.6, Orifice Coef = 0.6
    Pipe: Diameter = 1.25 ft, Manning's n = 0.012, Length = 84 ft
      US Invert Elev = 23.5 ft NGVD, DS Invert Elev = 22 ft NGVD, no flap gate

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	23.50	23.50
4.00	0.29	0.00	-0.02	0.00	23.67	23.67
8.00	0.89	0.01	-0.01	0.00	23.84	23.83
12.00	4.26	1.16	0.28	0.02	25.45	24.00
16.00	5.72	0.06	0.06	0.09	24.01	23.94
20.00	6.19	0.04	0.04	0.10	23.91	23.89
24.00	6.50	0.02	0.02	0.11	23.84	23.83
28.00	6.50	0.00	0.02	0.11	23.78	23.78
32.00	6.50	0.00	0.03	0.11	23.73	23.72
36.00	6.50	0.00	0.02	0.11	23.67	23.67
40.00	6.50	0.00	0.02	0.11	23.61	23.61
44.00	6.50	0.00	0.01	0.11	23.56	23.56
48.00	6.50	0.00	0.00	0.11	23.51	23.50
52.00	6.50	0.00	0.00	0.11	23.50	23.50
56.00	6.50	0.00	0.00	0.11	23.50	23.50

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
60.00	6.50	0.00	0.00	0.11	23.50	23.50
64.00	6.50	0.00	0.00	0.11	23.50	23.50
68.00	6.50	0.00	0.00	0.11	23.50	23.50
72.00	6.50	0.00	0.00	0.11	23.50	23.50
76.00	6.50	0.00	0.00	0.11	23.50	23.50
80.00	6.50	0.00	0.00	0.11	23.50	23.50
84.00	6.50	0.00	0.00	0.11	23.50	23.50
88.00	6.50	0.00	0.00	0.11	23.50	23.50
92.00	6.50	0.00	0.00	0.11	23.50	23.50
96.00	6.50	0.00	0.00	0.11	23.50	23.50
100.00	6.50	0.00	0.00	0.11	23.50	23.50
104.00	6.50	0.00	0.00	0.11	23.50	23.50
108.00	6.50	0.00	0.00	0.11	23.50	23.50
112.00	6.50	0.00	0.00	0.11	23.50	23.50
116.00	6.50	0.00	0.00	0.11	23.50	23.50
120.00	6.50	0.00	0.00	0.11	23.50	23.50
124.00	6.50	0.00	0.00	0.11	23.50	23.50
128.00	6.50	0.00	0.00	0.11	23.50	23.50
132.00	6.50	0.00	0.00	0.11	23.50	23.50
136.00	6.50	0.00	0.00	0.11	23.50	23.50
140.00	6.50	0.00	0.00	0.11	23.50	23.50
144.00	6.50	0.00	0.00	0.11	23.50	23.50
148.00	6.50	0.00	0.00	0.11	23.50	23.50
152.00	6.50	0.00	0.00	0.11	23.50	23.50
156.00	6.50	0.00	0.00	0.11	23.50	23.50
160.00	6.50	0.00	0.00	0.11	23.50	23.50
164.00	6.50	0.00	0.00	0.11	23.50	23.50
168.00	6.50	0.00	0.00	0.11	23.50	23.50
172.00	6.50	0.00	0.00	0.11	23.50	23.50
176.00	6.50	0.00	0.00	0.11	23.50	23.50
180.00	6.50	0.00	0.00	0.11	23.50	23.50
184.00	6.50	0.00	0.00	0.11	23.50	23.50
188.00	6.50	0.00	0.00	0.11	23.50	23.50
192.00	6.50	0.00	0.00	0.11	23.50	23.50
196.00	6.50	0.00	0.00	0.11	23.50	23.50
200.00	6.50	0.00	0.00	0.11	23.50	23.50
204.00	6.50	0.00	0.00	0.11	23.50	23.50
208.00	6.50	0.00	0.00	0.11	23.50	23.50
212.00	6.50	0.00	0.00	0.11	23.50	23.50
216.00	6.50	0.00	0.00	0.11	23.50	23.50
220.00	6.50	0.00	0.00	0.11	23.50	23.50
224.00	6.50	0.00	0.00	0.11	23.50	23.50
228.00	6.50	0.00	0.00	0.11	23.50	23.50
232.00	6.50	0.00	0.00	0.11	23.50	23.50
236.00	6.50	0.00	0.00	0.11	23.50	23.50
240.00	6.50	0.00	0.00	0.11	23.50	23.50
244.00	6.50	0.00	0.00	0.11	23.50	23.50
248.00	6.50	0.00	0.00	0.11	23.50	23.50
252.00	6.50	0.00	0.00	0.11	23.50	23.50
256.00	6.50	0.00	0.00	0.11	23.50	23.50
260.00	6.50	0.00	0.00	0.11	23.50	23.50
264.00	6.50	0.00	0.00	0.11	23.50	23.50
268.00	6.50	0.00	0.00	0.11	23.50	23.50
272.00	6.50	0.00	0.00	0.11	23.50	23.50
276.00	6.50	0.00	0.00	0.11	23.50	23.50
280.00	6.50	0.00	0.00	0.11	23.50	23.50
284.00	6.50	0.00	0.00	0.11	23.50	23.50
288.00	6.50	0.00	0.00	0.11	23.50	23.50
292.00	6.50	0.00	0.00	0.11	23.50	23.50
296.00	6.50	0.00	0.00	0.11	23.50	23.50
300.00	6.50	0.00	0.00	0.11	23.50	23.50
304.00	6.50	0.00	0.00	0.11	23.50	23.50
308.00	6.50	0.00	0.00	0.11	23.50	23.50
312.00	6.50	0.00	0.00	0.11	23.50	23.50
316.00	6.50	0.00	0.00	0.11	23.50	23.50
320.00	6.50	0.00	0.00	0.11	23.50	23.50
324.00	6.50	0.00	0.00	0.11	23.50	23.50
328.00	6.50	0.00	0.00	0.11	23.50	23.50
332.00	6.50	0.00	0.00	0.11	23.50	23.50

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
336.00	6.50	0.00	0.00	0.11	23.50	23.50
340.00	6.50	0.00	0.00	0.11	23.50	23.50
344.00	6.50	0.00	0.00	0.11	23.50	23.50
348.00	6.50	0.00	0.00	0.11	23.50	23.50
352.00	6.50	0.00	0.00	0.11	23.50	23.50
356.00	6.50	0.00	0.00	0.11	23.50	23.50
360.00	6.50	0.00	0.00	0.11	23.50	23.50

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.30	12.43	-0.03	5.73

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
Project Basin	25.55	12.35	23.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Project Basin	0.11	0.00	0.11	0.00	0.00	0.00

Project Name: ALABAMA RD RESTAURANT
Reviewer: LEE COUNTY
Project Number: 24-154
  Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr
  Time Step: 0.016 hr, Iterations: 10

Basin 1: Project Basin

  Method: Santa Barbara Unit Hydrograph
  Rainfall Distribution: SFWMD - 24 hr
  Design Frequency: 5 year
  1 Day Rainfall: 5.5 inches
  Area: 0.341 acres
  Ground Storage: 2.85 inches
  Time of Concentration: 0.1 hours
  Initial Stage: 23.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
23.50	0.00
24.00	0.00
24.50	0.00
25.00	0.01
25.50	0.03
26.00	0.07
26.50	0.18
27.00	0.34
27.50	0.50

Offsite Receiving Body: Offsite1

Time (hr)	Stage (ft NGVD)
0.00	23.50
12.00	24.00
48.00	23.50
360.00	23.50

Structure: 1

  From Basin: Project Basin
  To Basin: Offsite1
  Structure Type: Gravity
    Weir: None
    Bleeder: Circular, Invert Elev = 23.5 ft NGVD, Diameter = 0.25 ft
      Default Coefs: Weir Coef = 0.6, Orifice Coef = 0.6
    Pipe: Diameter = 1.25 ft, Manning's n = 0.012, Length = 84 ft
      US Invert Elev = 23.5 ft NGVD, DS Invert Elev = 22 ft NGVD, no flap gate

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	23.50	23.50
4.00	0.25	0.00	-0.02	0.00	23.67	23.67
8.00	0.75	0.01	-0.01	0.00	23.84	23.83
12.00	3.61	0.92	0.27	0.02	25.26	24.00
16.00	4.84	0.05	0.05	0.07	23.99	23.94
20.00	5.24	0.03	0.03	0.08	23.90	23.89
24.00	5.50	0.02	0.02	0.09	23.84	23.83
28.00	5.50	0.00	-0.02	0.09	23.78	23.78
32.00	5.50	0.00	-0.03	0.09	23.73	23.72
36.00	5.50	0.00	-0.02	0.09	23.67	23.67
40.00	5.50	0.00	-0.02	0.09	23.61	23.61
44.00	5.50	0.00	-0.01	0.09	23.56	23.56
48.00	5.50	0.00	0.00	0.09	23.51	23.50
52.00	5.50	0.00	0.00	0.09	23.50	23.50
56.00	5.50	0.00	0.00	0.09	23.50	23.50

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
60.00	5.50	0.00	0.00	0.09	23.50	23.50
64.00	5.50	0.00	0.00	0.09	23.50	23.50
68.00	5.50	0.00	0.00	0.09	23.50	23.50
72.00	5.50	0.00	0.00	0.09	23.50	23.50
76.00	5.50	0.00	0.00	0.09	23.50	23.50
80.00	5.50	0.00	0.00	0.09	23.50	23.50
84.00	5.50	0.00	0.00	0.09	23.50	23.50
88.00	5.50	0.00	0.00	0.09	23.50	23.50
92.00	5.50	0.00	0.00	0.09	23.50	23.50
96.00	5.50	0.00	0.00	0.09	23.50	23.50
100.00	5.50	0.00	0.00	0.09	23.50	23.50
104.00	5.50	0.00	0.00	0.09	23.50	23.50
108.00	5.50	0.00	0.00	0.09	23.50	23.50
112.00	5.50	0.00	0.00	0.09	23.50	23.50
116.00	5.50	0.00	0.00	0.09	23.50	23.50
120.00	5.50	0.00	0.00	0.09	23.50	23.50
124.00	5.50	0.00	0.00	0.09	23.50	23.50
128.00	5.50	0.00	0.00	0.09	23.50	23.50
132.00	5.50	0.00	0.00	0.09	23.50	23.50
136.00	5.50	0.00	0.00	0.09	23.50	23.50
140.00	5.50	0.00	0.00	0.09	23.50	23.50
144.00	5.50	0.00	0.00	0.09	23.50	23.50
148.00	5.50	0.00	0.00	0.09	23.50	23.50
152.00	5.50	0.00	0.00	0.09	23.50	23.50
156.00	5.50	0.00	0.00	0.09	23.50	23.50
160.00	5.50	0.00	0.00	0.09	23.50	23.50
164.00	5.50	0.00	0.00	0.09	23.50	23.50
168.00	5.50	0.00	0.00	0.09	23.50	23.50
172.00	5.50	0.00	0.00	0.09	23.50	23.50
176.00	5.50	0.00	0.00	0.09	23.50	23.50
180.00	5.50	0.00	0.00	0.09	23.50	23.50
184.00	5.50	0.00	0.00	0.09	23.50	23.50
188.00	5.50	0.00	0.00	0.09	23.50	23.50
192.00	5.50	0.00	0.00	0.09	23.50	23.50
196.00	5.50	0.00	0.00	0.09	23.50	23.50
200.00	5.50	0.00	0.00	0.09	23.50	23.50
204.00	5.50	0.00	0.00	0.09	23.50	23.50
208.00	5.50	0.00	0.00	0.09	23.50	23.50
212.00	5.50	0.00	0.00	0.09	23.50	23.50
216.00	5.50	0.00	0.00	0.09	23.50	23.50
220.00	5.50	0.00	0.00	0.09	23.50	23.50
224.00	5.50	0.00	0.00	0.09	23.50	23.50
228.00	5.50	0.00	0.00	0.09	23.50	23.50
232.00	5.50	0.00	0.00	0.09	23.50	23.50
236.00	5.50	0.00	0.00	0.09	23.50	23.50
240.00	5.50	0.00	0.00	0.09	23.50	23.50
244.00	5.50	0.00	0.00	0.09	23.50	23.50
248.00	5.50	0.00	0.00	0.09	23.50	23.50
252.00	5.50	0.00	0.00	0.09	23.50	23.50
256.00	5.50	0.00	0.00	0.09	23.50	23.50
260.00	5.50	0.00	0.00	0.09	23.50	23.50
264.00	5.50	0.00	0.00	0.09	23.50	23.50
268.00	5.50	0.00	0.00	0.09	23.50	23.50
272.00	5.50	0.00	0.00	0.09	23.50	23.50
276.00	5.50	0.00	0.00	0.09	23.50	23.50
280.00	5.50	0.00	0.00	0.09	23.50	23.50
284.00	5.50	0.00	0.00	0.09	23.50	23.50
288.00	5.50	0.00	0.00	0.09	23.50	23.50
292.00	5.50	0.00	0.00	0.09	23.50	23.50
296.00	5.50	0.00	0.00	0.09	23.50	23.50
300.00	5.50	0.00	0.00	0.09	23.50	23.50
304.00	5.50	0.00	0.00	0.09	23.50	23.50
308.00	5.50	0.00	0.00	0.09	23.50	23.50
312.00	5.50	0.00	0.00	0.09	23.50	23.50
316.00	5.50	0.00	0.00	0.09	23.50	23.50
320.00	5.50	0.00	0.00	0.09	23.50	23.50
324.00	5.50	0.00	0.00	0.09	23.50	23.50
328.00	5.50	0.00	0.00	0.09	23.50	23.50
332.00	5.50	0.00	0.00	0.09	23.50	23.50

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
336.00	5.50	0.00	0.00	0.09	23.50	23.50
340.00	5.50	0.00	0.00	0.09	23.50	23.50
344.00	5.50	0.00	0.00	0.09	23.50	23.50
348.00	5.50	0.00	0.00	0.09	23.50	23.50
352.00	5.50	0.00	0.00	0.09	23.50	23.50
356.00	5.50	0.00	0.00	0.09	23.50	23.50
360.00	5.50	0.00	0.00	0.09	23.50	23.50

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.28	12.25	-0.03	5.73

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
Project Basin	25.36	12.25	23.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Project Basin	0.09	0.00	0.09	0.00	0.00	0.00

PART IV #25-84

Recommended Action

Engineering Review:

By: _____ 10/30/2025 **Approved __ Denied __X__**

District Field Review:

By: _____ **Approved ___ Denied ___**

District Manager: _____ **Date**: _____

Comments:

The referenced permit application for a proposed commercial development at 49 Alabama Rd. N., in Lehigh Acres, submitted by Boral Engineering and Design, Inc., has been reviewed and is recommended for denial with the following comments:

1. The lift station is shown within the detention area bottom. Please clarify and ensure there are no conflicts with the proposed stormwater infrastructure, including the stated provided storage volume.

2. Please show the perimeter berm enclosing the proposed project on the civil plans. The perimeter may consist of earthen berms and/or hardened sections, provided that a continuous closed boundary is maintained at or above the perimeter berm design elevation (26.50').

3. The narrative states that the stormwater system connects to an existing inlet along Homestead Road; however, the plans indicate ultimate discharge to the nearby LAMSID-owned Dave Canal (47-31-9). Please adjust the offsite receiving body assumptions accordingly. At a minimum, the initial stage should correspond to the control elevation (23.5') and the peak stage should be set at the canal top-of-bank elevation. Provide supporting topographic data confirming the canal elevations used in the hydraulic modeling.

4. The proposed bike rack shown on Sheet 4 of the civil plans appears to conflict with the detention area side slopes. Please clarify or revise to ensure no conflicts with the proposed stormwater infrastructure or the provided storage volume.

5. Per LAMSID Permitting Policy 4.28.4, Design Criteria, minimum road and parking area elevations must be at a minimum the 10-year, 1-day design storm peak stage elevation. Please revise the civil plans and drainage calculations accordingly.

PART IV #25-84

Recommended Action

Engineering Review:

By: _____ 5/8/2026 **Approved** _X_ **Denied** ___

District Field Review:

By: _____ **Approved** ___ **Denied** ___

District Manager: _____ **Date**: _____

Comments:

The referenced permit application for 49 Alabama Rd. N., in Lehigh Acres, submitted by Boral Engineering and Design, Inc., has been reviewed and is recommended for approval with the following stipulations/comments:

1. The permittee shall submit signed and sealed record drawings within thirty (30) days of project completion. The drawings must include sufficient detail to demonstrate that the permitted facilities have been constructed in substantial compliance with LA-MSID–approved plans and design.

2. Prior to commencing construction, the permittee shall provide LA-MSID with copies of all applicable permits from other governing agencies.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: PER #26-68, Carniceria Monterrey Expansion – 1501 Gretchen Ave S.

Meeting Date: June 15, 2026

Agenda Item # 2E

[x] **CONSENT** [ ] **ACTION** [ ] **OLD BUSINESS** [ ] **NEW BUSINESS**

Request Initiated By: [ ] **COMMISSIONER** _____ [ ] **ATTORNEY**

[ ] **BOARD** [x] **MANAGER** [ ] **ENGINEER** [ ] **AUDITOR**

Recommended motion: Move to approve PER #26-68, Carniceria Monterrey Expansion, with any listed stipulations.

What the action accomplishes: Allows Carniceria Monterrey II, Inc., to expand a commercial site at 1501 Gretchen Av. S., while certifying on their plans that their stormwater facilities are adequate and able to discharge less than 30 CSM.

Fiscal Impact: Permit Fees: $1,500.00

Staff comments: Approved according to the plans submitted May 20, 2026.

Staff review and recommended approval:

[x] **MANAGER** [ ] **ASSISTANT DISTRICT MGR**

[ ] **ATTORNEY** [ ] **FIELD SUPERINTENDENT**

[x] **ENGINEER** [x] **CONTROLLER**

Board Action:

[ ] **APPROVED** [ ] **DENIED** [ ] **DEFERRED**

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Carniceria Monterrey II, Inc. (Attn: Conrado Ayala), 20400 Riverbrooke Run, Estero, FL 33928, hereinafter referred to as the "Permittee") as a non-exclusive permit for a proposed 5,400 SF building expansion on (1.03 +/- acres), located at 1501 Gretchen Ave. S., with an on-site detention system with a control structure and outfall pipe to the existing drainage ditch along Gretchen Ave. S., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-68

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-68 is approved according to the plans and calculations submitted April 23rd, 2026.

2). Maintenance of the entire on-site storm water management system, including the detention areas, perimeter berms, storm sewer pipes, control structure and outfall pipe are the responsibility of the Permittee.

3). A permanent benchmark disc should be established on the existing control structure in the southwest corner of the site, with the elevation and referenced datum clearly labeled on it.

4). An "As-Built" survey showing the completed improvements (including perimeter berm, all pipe inverts and improved ditch elevations) must be submitted to Lehigh Acres - MSID within 30 days following completion of the improvements.

5). Please provide Lehigh Acres - MSID with copies of all applicable permits from other governing agencies prior to commencing construction.

PART I

DATE SUBMITTED: 04 - 23 - 26

PERMIT #: 26 - 68

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: Al Quattrone, P.E. **PHONE #:** (239)936-5222

PROJECT NAME: Expansion Carniceria Monterrey

TOTAL ACREAGE: 1.03

Property Address (STRAP associated with this address will be used as the primary STRAP for this project):					
Mailing Address:	**1501, 1503 & 1505 Gretchen Ave. S.**				
City:	**Lehigh Acres**	**State:**	**FL**	**Zip:**	**33973**

STRAP NUMBERS (*attach additional sheet if necessary*):

0	4	-	4	5	-	2	6	-	0	5	-	0	0	0	1	0	-	0	0	1	0
0	4	-	4	5	-	2	6	-	0	5	-	0	0	0	1	0	-	0	0	2	0
0	4	-	4	5	-	2	6	-	0	5	-	0	0	0	1	0	-	0	0	3	0
		-			-			-			-						-				
		-			-			-			-						-				

Brief description of proposed project:

Application for:

Expansion of the existing 3,500-square-foot building by an additional 5,400 square feet. The plan includes proposed cross-parcel access to the southern lot, along with regrading of the southern and northwest swales to increase water quality volume storage.

Is the project proposed to be developed in phases? ☐ Yes ☒ No

Estimated # of Phases:	1
***Permit Fee:**	$ 1250.00 **(to be verified by staff)**

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APR 23 2026
LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	Conrado Ayala					
Mailing Address:	Street:	20400 Riverbrooke Run				
City:	Estero	State:	FL		Zip:	33928
Phone No.	Area Code:	239	Number:	770-7638	Ext.	
Fax No.	Area Code:		Number:	-		
E-mail Address:	Conradoayala89@yahoo.com					

B. Relationship of applicant to property*:

☒ Owner* ☐ Trustee* ☐ Option holder* ☐ Lessee*

☐ Contract Purchaser* ☐ Other (indicate)* _____

C.

Name of Developer:						
Mailing Address:	Street:					
City:		State:			Zip:	
Phone No.	Area Code:	( )	Number:	-	Ext.	
Fax No.	Area Code:	( )	Number:	-		
E-mail Address:						

D.

Name of Authorized Agent(s):	Al Quattrone, P.E.					
Mailing Address:	Street:	4301 Veronica Shoemaker Blvd.				
City:	Fort Myers	State:	FL		Zip:	33916
Phone No.	Area Code:	(239)	Number:	936-5222	Ext.	
Fax No.	Area Code:	( )	Number:	-		
E-mail Address:	permits@qainc.net					

E.

Name of Property Owner:	Same as Applicant					
Mailing Address:	Street:					
City:		State:			Zip:	
Phone No.	Area Code:	( )	Number:	-	Ext.	
Fax No.	Area Code:	( )	Number:	-		
E-mail Address:						

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

PRIMARY STRAP NUMBER: 04-45-26-05-00010-0030

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock
CARNICERIA MONTERREY II INC	100%

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

SIGNATURE OF APPLICANT

Conrado Ayala
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 22 day of April (m), 2024 (y), by Conrado Ayala who is personally know to me or has produced _____ as identification.

MICHELLE STALNOS NOTARY My Comm. Expires September 22, 2029 No. HH 723109 STATE OF FLORIDA

SIGNATURE OF NOTARY PUBLIC

Michelle Stalnos
PRINTED NAME OF NOTARY PUBLIC

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:					
Mailing Address:					
City:		State:		Zip:	
Business No.	Area Code: ( )	Number:	-	Ext.	
Other Contact:					

ENGINEER

Name:					
Mailing Address:					
City:		State:		Zip:	
Business No.	Area Code: ( )	Number:	-	Ext.	
Other Contact:					

OTHER REPRESENTATIVE/PROFESSIONAL

Name:					
Mailing Address:					
City:		State:		Zip:	
Business No.	Area Code: ( )	Number:	-	Ext.	
Other Contact:					

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
	2	**Permit Application** (PARTS I & II)
	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
	2	**Copy of approved SWFMD permit,** for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
	1	**Check for appropriate Permit Fees** made out to LA-MSID.

RECEIVED 07/20/2022

CARNICERIA MONTERREY #2
1505 GRETCHEN AVE S
LEHIGH ACRES, FL 33973

17537

63-27/631 FL
24210

DATE 04/21/26

PAY TO THE ORDER OF LAMSID $ 1,250.00

One thousand two hundred fifty and 00/100 DOLLARS

Photo Safe Deposit® Details on back

BANK OF AMERICA

ACH R/T 063100277

FOR

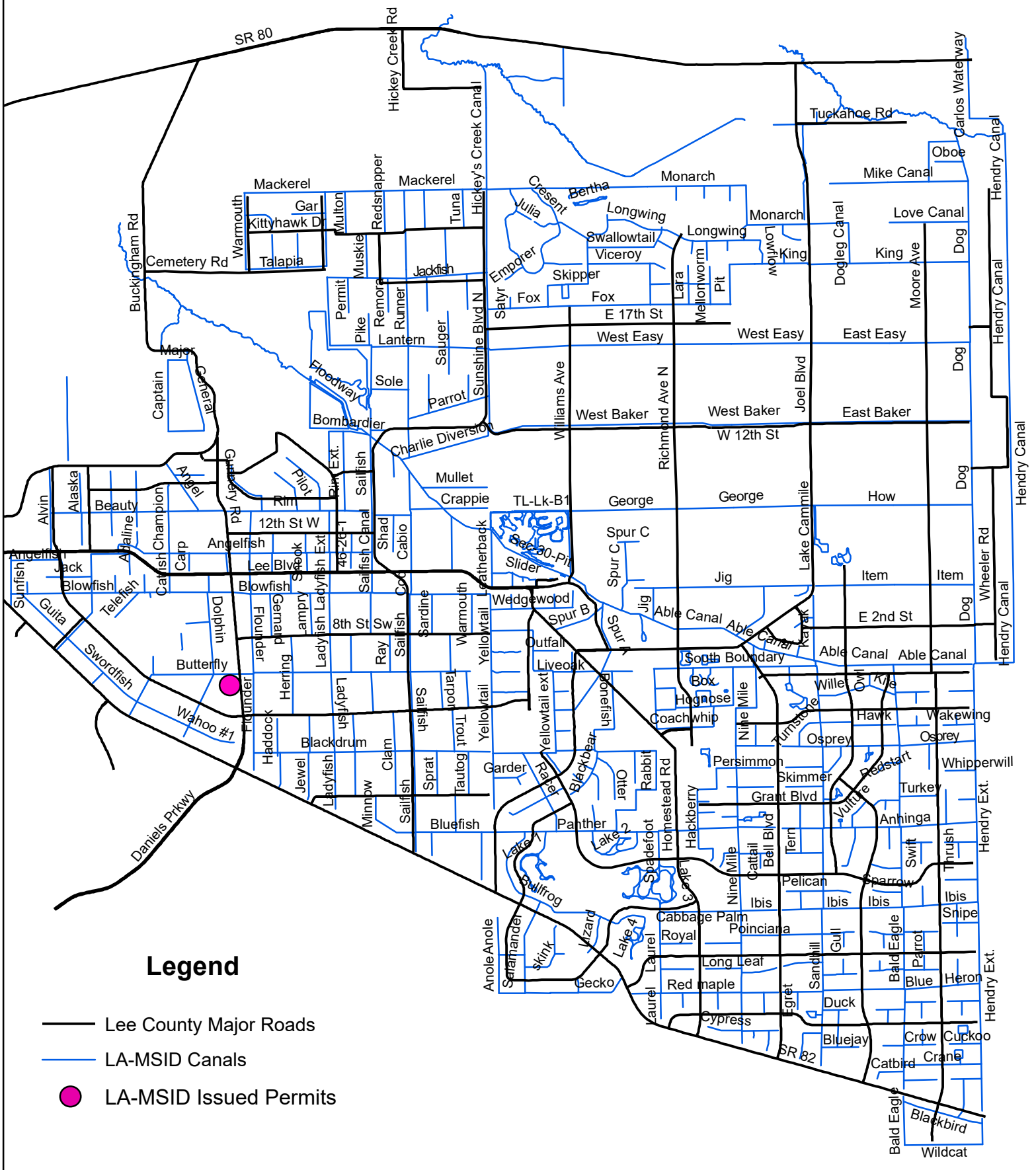
⑈017537⑈ ⑆063100277⑆ 003679297432⑈

Permit # 26-68

COPY

RECEIVED
APR 23 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

Permit # 2026-68



Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

DEVELOPMENT ORDER

FOR

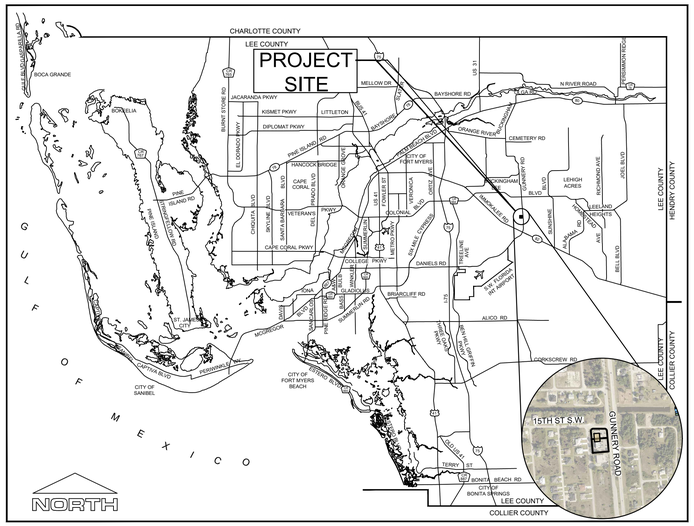
EXPANSION CARNICERIA MONTERREY

1501, 1503 & 1505 GRETCHEN AVE. S.
LEHIGH ACRES, FLORIDA 33973

OWNER / DEVELOPER:

CARNICERIA MONTERREY II, INC
1505 GRETCHEN AVE. S.
LEHIGH ACRES, FL 33973

LOCATION MAP



LEE COUNTY, FLORIDA

SECTION 04, TOWNSHIP 45S, RANGE 26E
STRAP # 04-45-26-05-00010.0010, .0020,& .0030
QAI PROJECT # - 141201

SHEET INDEX

SITE DEVELOPMENT: SD
SD 01 D.O. COVER
SD 02 EXISTING CONDITIONS & DEMO PLAN
SD 03 AERIAL & FLUCCS PLAN
SD 04 SWP3 & EXISTING HYDROLOGY PLAN
SD 05 MASTER SITE & UTILITE PLAN
SD 06 PAVING GRADING & DRAINAGE PLAN
SD 07 TYPICAL DETAILS
~~SD 08 FIRE STORAGE TANK~~

LANDSCAPING: LS
~~LS 01 LANDSCAPING PLAN~~
~~LS 02 LANDSCAPING DETAILS~~

LIGHTING: LT
~~LT 01 LIGHTING PLAN~~

	DATE	COMMENT	

Al Quattrone, State of Florida, Professional Engineer, License No. 52471. This item has been digitally signed and sealed by Alfred Quattrone on the date indicated here. Printed copies of this document Are not considered signed and sealed and the signature must be Verified on any electronic copies.

CONTRACTOR STAKEOUT SHALL BE FROM THE APPROVED CAD FILE BY QUATTRONE AND ASSOCIATES

ALFRED QUATTRONE, P.E.
FL. REG #52741
DATE:

P:\2014 Projects\141201 LEHIGH CARNICERIA MONTERREY - ACTIVE\01-CADD FILES\00-QAI CADD\JLAMS\D\141201-NI-LAMS\D

LEGEND FOR EXISTING CONDITIONS PLAN:

	EXST. FEATURES (ROADS, WALKS, ETC.)	+ 7.25	EXST. TOPO ELEV. (NAVD)
	CENTER LINE		PUBLISHED BENCH MARK
	SITE RIGHT OF WAY		EXST. GATE VALVE
	SITE BOUNDARY		EXST. FIRE HYDRANT
	SITE EASEMENT		EXST. CONC. POWER POLE
	SITE PARCEL / LOT LINE		EXST. POWER POLE
OH	OVERHEAD POWER LINES		EXST. ANCHOR
S	EXST. SEWER MANHOLE		EXST. TELEPHONE RISER
			EXST. WATER METER

TYPICAL HATCH PATTERNS

ASPHALT/CONCRETE OR OTHERS TO BE DEMOED

EASEMENTS

TYPICAL ABBREVIATIONS

WLP	WOODEN LIGHT POLE	N/D	NAIL & DISC
CPP	CONCRETE POWER POLE		
GW	GUY WIRE		
OH	OVERHEAD UTILITIES		
CP	CONCRETE PAD		
WCS	WATER CONTROL STRUCTURE		

DEMOLITION NOTES:

1. CONTRACTOR TO PROVIDE SERVICES FOR EFFECTIVE AIR AND WATER POLLUTION CONTROLS AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.
2. DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF. CONTRACTOR SHALL DEVELOP A DEMOLITION MATERIALS MANAGEMENT PLAN AND MAKE ALL EFFORTS TO REUSE OR RECYCLE DEBRIS AT A COUNTY APPROVED RECYCLING FACILITY IN ACCORDANCE WITH LEE COUNTY SOLID WASTE DIVISION REQUIREMENTS.
3. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION, COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, LAWS AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
4. ANY HAZARDOUS MATERIAL FOUND ON SITE MUST BE REMOVED PRIOR TO THE START OF DEMOLITION.
5. CONTRACTOR TO CONTACT ALL UTILITY COMPANIES 72 HOURS PRIOR TO THE START OF DEMOLITION.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND TAKE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO UNDERGROUND PIPELINES, TELEPHONE, CABLE TV, ELECTRIC LINES/CONDUITS AND STRUCTURES IN ADVANCE OF DEMOLITION OR CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY CLEARING OR TREE REMOVAL PERMITS REQUIRED FOR DEMOLITION.
8. EXISTING GROUND WATER WELLS ON SITE SHALL BE PROPERLY ABANDONED BY LEE COUNTY LICENSED WATER WELL CONTRACTOR IN ACCORDANCE WITH LEE COUNTY NATURAL RESOURCES DEPARTMENT REQUIREMENTS & COMPLETE A DEMOLITION WELL PROTECTION FORM. ABANDONMENT SHALL ALSO COMPLY WITH SFWMD AND DEP PLUGGING REQUIREMENTS. WELL LOCATIONS ARE APPROXIMATE & ALL WELLS MAY NOT BE SHOWN ON THIS PLAN.
9. ANY EXISTING WATER OR SEWER INFRASTRUCTURE TO BE ABANDONED IS TO BE PLUGGED, CAPPED AND MARKED AND ABANDONED IN ACCORDANCE WITH LCU & FDEP REGULATIONS.
10. ABANDONED SEPTIC TANKS OR DRAIN FIELDS HAVE NOT BEEN FIELD LOCATED AND LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED BY SITE INSPECTION. SEPTIC TANKS AND DRAIN FIELDS SHALL BE REMOVED IN ACCORDANCE WITH HRS AND FDEP REQUIREMENTS.
11. A NOTICE OF COMMENCEMENT FOR DEMOLITION ACTIVITIES SHALL BE RECORDED WITH WITH LEE COUNTY.
12. ALL EXISTING CABBAGE PALM TREES SHALL BE RELOCATED ONSITE TO THE GREATEST EXTENT POSSIBLE.

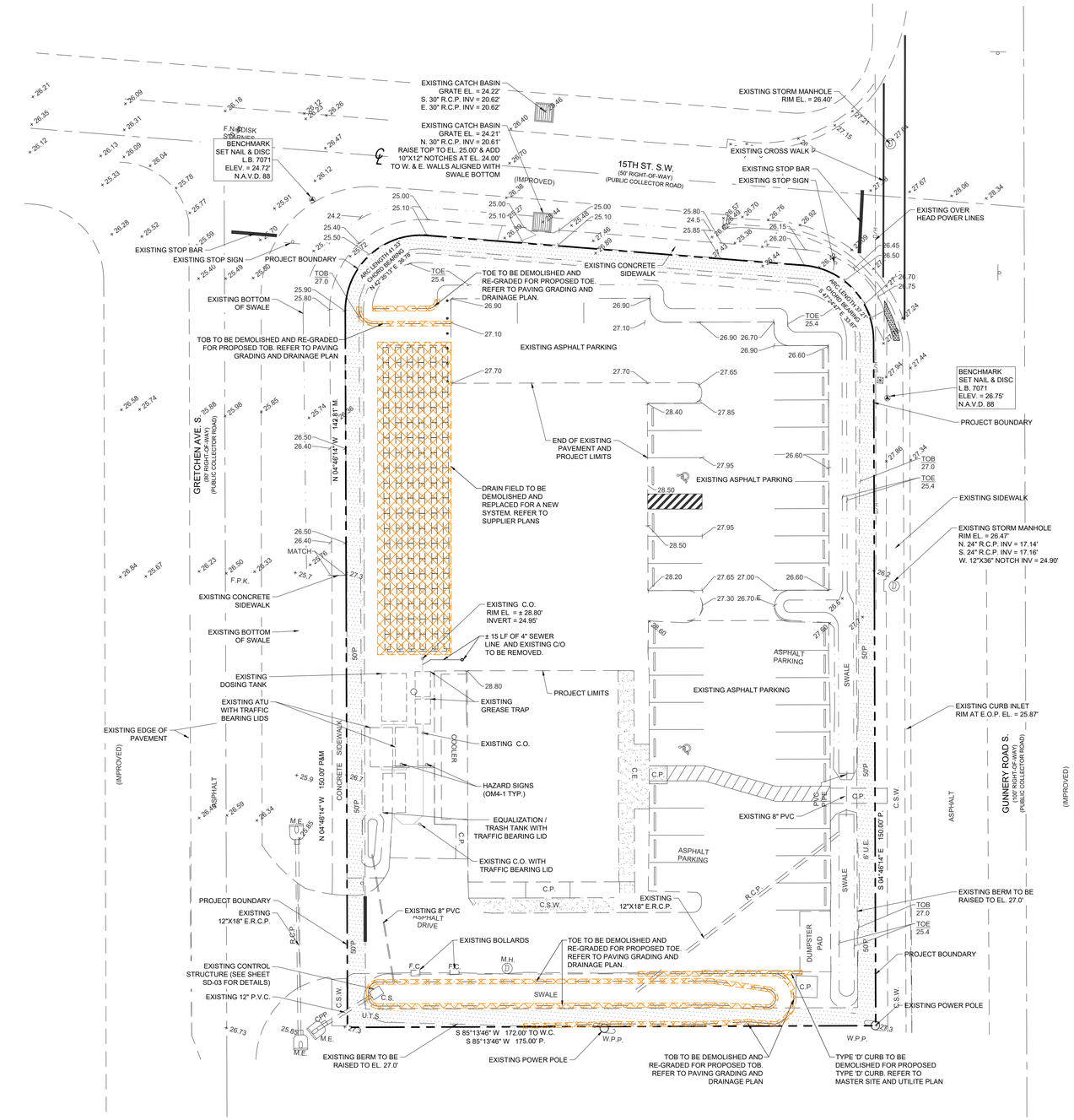
VERTICAL DATUM: NAVD

THIS DRAWING AND ALL ELEVATIONS SHOWN ARE BASED ON THE NATIONAL AMERICAN VERTICAL DATUM (NAVD 88)
ADD 1.17' TO CONVERT TO NGVD 29

EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY
K.E. TRASK, P.A. (LB8450)
12345 BLASINGIM ROAD
FT. MYERS, FL. 33966
(239) 980-1495

CONTRACTOR STAKEOUT SHALL BE FROM THE APPROVED CAD FILE BY QUATTRONE AND ASSOCIATES

20' 40'
PLAN VIEW SCALE



Quattrone & Associates, Inc.
Engineers, Planners, & Development Consultants
4301 Veronica Shoemaker Blvd - Fort Myers, Florida 33916 - 239-936-5222
Certificate of Authorization Number: 9465

LEHIGH CARNICERIA MONTERREY
EXISTING CONDITIONS & DEMO PLAN

1501, 1503 & 1505 GRETCHEN AVE. S.
LEHIGH ACRES, FLORIDA 33973

	DATE	COMMENT
A		

ALFRED QUATTRONE, P.E.
FL. REG #52741
VALID ONLY WITH STAMPED SEAL

SAVED BY: David
SAVED ON: 4/14/26

SHEET
SD-02
02 OF 08

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CONTRACTOR STAKEOUT SHALL BE FROM THE APPROVED CAD FILE BY QUATTRONE AND ASSOCIATES

20' 40'

PLAN VIEW SCALE

FLUCCS:	
FLUCCS CODE:	
3200	UPLAND SHRUB AND BRUSHLAND
1180	RURAL RESIDENTIAL

LEHIGH CARNICERIA MONTERREY
AERIAL & FLUCCS PLAN
1501, 1503 & 1505 GRETCHEN AVE. S.
LEHIGH ACRES, FLORIDA 33973

	DATE	COMMENT
1		

Quattrone & Associates, Inc.
Engineers, Planners, & Development Consultants
4301 Veronica Shoemaker Blvd - Fort Myers, Florida 33916 - 239-936-5222
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ALFRED QUATTRONE, P.E.
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SAVED BY: David
SAVED ON: 4/14/26

SHEET
SD-03
03 OF 08

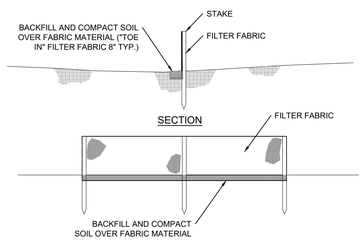
P:\2014 Projects\141201 LEHIGH CARNICERIA MONTERREY - ACTIVE\01-CADD FILES\00-QAI CADD\LAMSID\141201-N-LAMSID

STORM WATER POLLUTION PREVENTION NOTES AND LEGEND:

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY APPROPRIATE EROSION CONTROL DEVICES SHALL BE INSTALLED TO CONTROL AND REDUCE SOIL EROSION AND SEDIMENT TRANSPORT TO OFF SITE AREAS. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEVICES SHALL REMAIN IN PLACE UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED.
2. THE CONTRACTOR SHALL SUPPLEMENT THIS PLAN AS MAY BE REQUIRED TO CONTROL AND REDUCE SOIL EROSION BASED ON THE CONTRACTORS MEANS, METHODS AND TECHNIQUE OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO FILE A NPDES NOTICE OF INTENT WITH THE EPA AND LEE COUNTY DEVELOPMENT SERVICE DIVISION AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL CONTACT LEE COUNTY NPDES STORMWATER REVIEWER PRIOR TO ANY DEWATERING OPERATIONS.
4. ALL PROPOSED AND EXISTING INLETS SUBJECT TO SEDIMENTATION SHALL BE COVER WITH FILTER FABRIC (HELD IN PLACE BY THE GRATE).

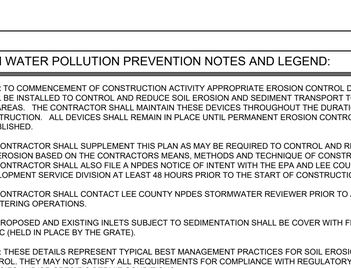
NOTE: THESE DETAILS REPRESENT TYPICAL BEST MANAGEMENT PRACTICES FOR SOIL EROSION CONTROL. THEY MAY NOT SATISFY ALL REQUIREMENTS FOR COMPLIANCE WITH REGULATORY AGENCIES AND/OR SPECIFIC PERMIT CONDITIONS.

SYNTHETIC STRAW BALE
EX. SURFACE HYDROLOGY
PRO. SURFACE HYDROLOGY
INLET FABRIC PROTECTIONS
SYNTHETIC STAKED HAY BALE @ INLETS
STAKED SILT FENCE
FLOATING TURBIDITY BARRIER



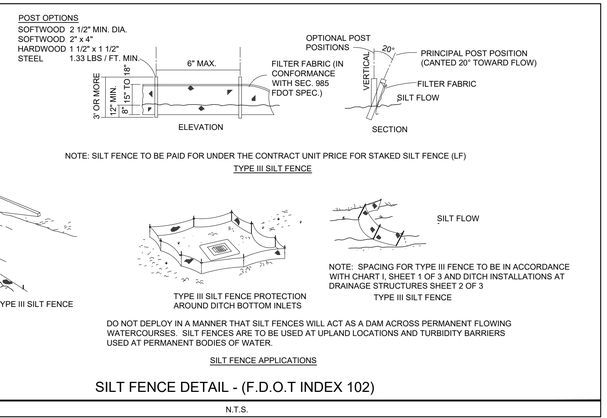
FILTER BARRIER

N.T.S.



SYNTHETIC HAY BALE INLET SEDIMENT FILTER

N.T.S.



SILT FENCE DETAIL - (F.D.O.T INDEX 102)

N.T.S.

CONTRACTOR STAKEOUT SHALL BE FROM THE APPROVED CAD FILE BY QUATTRONE AND ASSOCIATES

20' 40'

PLAN VIEW SCALE

VERTICAL DATUM: NAVD

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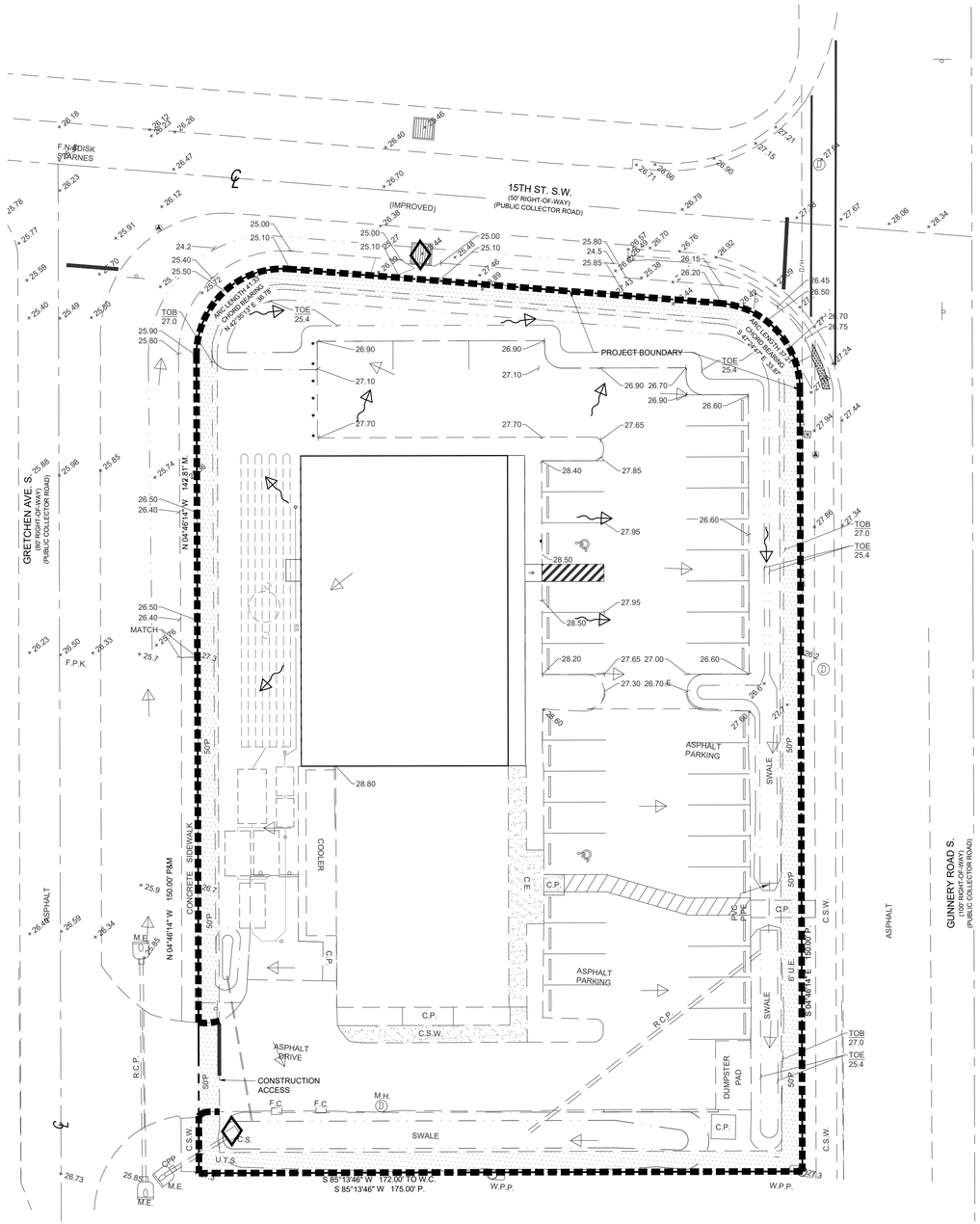
ADD 1.17' TO CONVERT TO NGVD 29



DATE	COMMENT
4	

LEHIGH CARNICERIA MONTERREY
SWP3 & EXISTING HYDROLOGY PLAN

1501, 1503 & 1505 GRETCHEN AVE. S.
LEHIGH ACRES, FLORIDA 33973

Quattrone & Associates, Inc.
Engineers, Planners, & Development Consultants
4301 Veronica Shoemaker Blvd - Fort Myers, Florida 33916 - 239-936-5222
Certificate of Authorization Number: 9465

ALFRED QUATTRONE, P.E.
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SAVED BY: David
SAVED ON: 4/14/26

SHEET
SD-04
04 OF 08

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PARKING CALCULATIONS: LDC SEC. 34-2020(b)

LDC REQUIRED
RETAIL OR BUSINESS ESTABLISHMENT (SMALL PRODUCTS) = 1 SPACE / 250 SF FLOOR AREA
REQUIRED HANDICAP AS PER F.S. 553.5141(4)

EXISTING BUILDING FOOTAGE = 3,932 SF.
PROPOSED BUILDING FOOTAGE = 5,400 SF.
TOTAL FOOTAGE = 9,332 SF OF RETAIL SMALL PRODUCTS
REQUIRED PER LDC =9,332 / 250 = 38 SPACES

PARKING REDUCTION WITHIN MIXED USE LDC SEC. 34.2020.C
FUTURE LAND USE: CENTRAL URBAN
NON RESIDENTIAL REDUCTION FACTOR: 0.55
REQUIRED PARKING WITH REDUCTION APPLICATION = 38 * 0.55 = 21 SPACES

TOTAL REQUIRED PARKING SPACES (INCLUDING 2 HANDICAP SPACES)	21 SPACES
TOTAL PARKING SPACES PROVIDED (EXISTING)	35 SPACES
TOTAL NUMBER OF BIKE STALLS REQUIRED (5% OF REQUIRED PARKING)	21 x 5% = 2
TOTAL NUMBER OF BIKE STALLS PROVIDED	2 STALLS

REFUSE AND SOLID WASTE DISPOSAL FACILITIES:LDC SEC. 10-261

1. A MINIMUM OVERHEAD CLEARANCE OF 22 FEET IS REQUIRED.
2. ALL STORAGE AREAS / CONTAINERS SHALL BE ADEQUATELY SHIELDED PER LEE COUNTY GROWTH MANAGEMENT CODE.
3. ALL STORAGE AREAS / CONTAINERS SHALL MEET LEE COUNTY LDC.
4. THE CONFIGURATION AND LOCATION OF DUMPSTER / RECYCLING AREAS MAY BE MODIFIED DURING CONSTRUCTION AS LONG AS THE ABOVE REQUIREMENTS AND AREAS BELOW ARE MAINTAINED.

NET BUILDING AREA S.F. = 3,932 + 5,400 = 9,332 SF
216 SF (120 SF GARBAGE + 96 SF RECYCLABLE) FIRST 25,000 SF
8 SF PER 1,000 SF THEREAFTER.

REQUIRED SOLID WASTE = 216 SF
PROVIDED SOLID WASTE = 220 SF EXISTING ENCLOSED DUMPSTER

WATER STORAGE FOR FIRE CALCULATIONS

TOTAL STRUCTURE FOOT PRINT 9,332 SF
HEIGHT = 14 FEET
TOTAL VOLUME OF STRUCTURE
(9,332 SF X 14 FEET) = 130,648 CF
OCCUPANCY HAZARD CLASSIFICATION NUMBER 4
CONSTRUCTION CLASSIFICATION NO II = 0.75 (SINGLE STRUCTURE W/OUT EXPOSURE HAZARD)

(TOTAL VOLUME / OCCUPANCE CLASS. NO.) X (CONSTRUCTION CLASS. NO.) =
(130,648 CF/ 4) 0.75 = 24,496 GALLONS

REQUIRED **24,496** GALLON TANK

GALLON CAPACITY REDUCTION WITHIN SPRINKLERED BUILDING NFPA 1 SEC. 18.4.4.3
SPRINKLERED BUILDING REDUCTION: 75%
REQUIRED CAPACITY WITH REDUCTION APPLICATION = **6,124** GALLON TANK

TOTAL REQUIRED	**6,124** GALLON TANK
TOTAL PROVIDED (EXISTING)	**15,000** GALLON TANK

THE NEAREST FIRE HYDRANT IS LOCATED 2,800 FT NORTH ALONG GRETCHEN AVE. S.

LAND USE BREAKDOWN:

TOTAL SITE AREA	44,740	SF	1.03	AC.	100.00%
EXISTING BUILDING AREA	3,932	SF	0.09	AC.	8.79%
PROPOSED EXTENSION BUILDING AREA	5,400	SF	0.12	AC.	12.07%
EXISTING PAVEMENT AREA	16,994	SF	0.39	AC.	37.98%
PROPOSED PAVEMENT AREA	500	SF	0.01	AC.	1.12%
EXISTING CONCRETE SIDEWALK AREA	819	SF	0.02	AC.	1.83%
PROPOSED CONCRETE SIDEWALK AREA	562	SF	0.01	AC.	1.26%
TOTAL IMPERVIOUS AREA	28,207	SF	0.65	AC.	63.05%
TOTAL PERVIOUS AREA	16,533	SF	0.38	AC.	36.95%

PRE-CONSTRUCTION MEETING REQUIREMENTS:

THE OWNER AND CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH QUATTRONE AND ASSOCIATES PRIOR TO ANY ONSITE WORK TO CONDUCT A THOROUGH REVIEW OF PLANS.

PROJECT PHASING PLAN:

THE PROJECT INFRASTRUCTURE SHALL BE CONSTRUCTED IN ONE PHASE.

PHASE 1 - BUILDING EXPANSION, ADJACENT CONCRETE SIDEWALK, LIGHTING MOUNTS, AND BUILDING EXPANSION PERIMETER PLANTINGS.

SITE DATA:

MINIMUM PAVEMENT ELEV.	CONTROL ELEVATION:
ELEV. 26.52' MIN NAVD.	ELEV. 23.80' MIN NAVD.
FINISH FLOOR ELEVATION:	PERIMETER BERM ELEVATION:
ELEV. 28.71' MIN NAVD.	ELEV. 26.82' MIN NAVD.
ZONING:	STRAP NUMBERS:
C-2 COMMERCIAL	04-45-26-05-00010.0010, .0020, & .0030
SOILS:	FLUCCS CODE:
33 OLDSMAR SAND	3200 UPLAND SHRUB AND BRUSHLAND 1180 RURAL RESIDENTIAL

FEMA FLOOD ZONE:

THIS PROPERTY IS LOCATED IN FIRM COMMUNITY 125124 PANEL NO. 0475
MAP #: 12071C0175F DATED: 8/28/2008

UTILITY CONTRACTOR:

1. CONTRACTOR SHALL NOTIFY ENGINEER'S OFFICE OF DATE AND TIME OF ALL PRESSURE TESTS OF ALL LINES AND HYDRANTS SO OFFICE REPRESENTATIVE CAN BE PRESENT.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND IMPROVEMENTS.
3. THE CONTRACTOR SHALL EXPOSE, VERIFY, CONNECT AND/OR MATCH EXISTING UTILITIES AND IMPROVEMENTS, IN CONFORMANCE WITH THE INTENT OF THESE PLAN AND SPECIFICATION, TO PROVIDE COMPLETE AND/OR OPERATIONAL SYSTEMS PRIOR TO CONSTRUCTION.
4. THE LOCATION OF EXISTING UTILITIES ACROSS OR ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL ON HIS OWN INITIATIVE AND AT NO EXTRA COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS OF DAMAGE OR COMPENSATION SHALL OCCUR TO THE CONTRACTOR FROM THE PRESENCE OF SUCH UTILITIES OR OTHER OBSTRUCTIONS OR FROM AN DELAY DUE TO REMOVAL OR REARRANGEMENT OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. ALL DAMAGE INCURRED TO EXISTING UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

WATERLINE AND IRRIGATION NOTES:

1. ALL WATERLINES 10" AND SMALLER SHALL HAVE A MINIMUM COVER OF 30" AND ALL WATERLINES LARGER THAN 10" SHALL HAVE A MINIMUM COVER OF 36". PER NFPA 24 UNDERGROUND LINES REQUIRED TO BE 36" UNDER DRIVES AND ROADS.
2. THE ENDS OF ALL CAPPED IRRIGATION AND POTABLE WATERLINES SHALL BE MARKED WITH ELECTRONIC MARKERS AND 2'x4' STAKES 5' IN LENGTH WITH 2' ABOVE GROUND.
3. ALL POTABLE AND IRRIGATION WATERLINES SHALL BE AWWA C-900, DR18 CLASS 150 PVC RUBBER GASKETED PIPE WITH BELL AND SPIGOT ENDS UNLESS NOTED OTHERWISE. ALL VERTICAL DEFLECTIONS AND WATERLINES UNDER PAVEMENT OR SIDEWALK SHALL BE D.I.P. CLASS 50.
4. CONTRACTOR SHALL USE 45° BENDS AT CONFLICTS. RESTRAINTS TO BE MEGALUG, TYLER MJR GLANDS OR APPROVED EQUAL. CONTRACTOR SHALL NOT EXCEED 75% OF THE MANUFACTURERS RECOMMENDED MAXIMUM PIPE DEFLECTION.
5. PROPOSED WATERLINE FITTINGS ARE SHOWN AT BENDS IN WATERLINE. ADDITIONAL FITTINGS MAY BE REQUIRED TO BEND WATERLINE AS SHOWN.
6. THE CONTRACTOR SHALL PLACE PROPOSED VALVES AS SHOWN. THE VALVE BOX SHALL NOT BE LOCATED IN PAVEMENT, BRICK PAVERS, SIDEWALKS OR DRIVEWAY AREAS.
7. ALL COMPONENTS OF THE POTABLE WATER SYSTEM SHALL BE IN CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE / NSF INTERNATIONAL STANDARD 61. ALL COMPONENTS INSTALLATION AND TESTING OF THE POTABLE WATER SYSTEM SHALL BE ACCORDANCE WITH ALL AWWA APPLICABLE STANDARDS.
8. WATER SERVICE TAPS SHALL NOT BE LOCATIONS REQUIRING HORIZONTAL DEFLECTION.
9. WATER SERVICES TO MAINTAIN 3' SEPARATION FROM DRAINAGE STRUCTURES.
10. WATER MAIN IS TO BE CONNECTED TO THE EXISTING BUILDING WATER SERVICE. SEE ARCHITECTURAL PLANS FOR DETAILS

UTILITY SERVICE PROVIDERS:

POTABLE WATER	SANITARY SEWER
ON-SITE WELL	ON-SITE SEPTIC TANK & DRAIN FIELD
ELECTRIC:	GAS:
FLORIDA POWER AND LIGHT COMPANY 1833 LEE ST. FT. MYERS, FL 33901 1-239-334-7754 OR 1-800-226-3545	TECO PEOPLES GAS 5901 ENTERPRISE PKWY. FORT MYERS, FL 33905 1-239-690-5508 OR 1-877-832-6741
GARBAGE COLLECTION:	TELEPHONE:
WASTE PRO 13110 RICKENBACKER PARKWAY FORT MYERS, FL 33913-8847 (239) 337-0800	CENTURYLINK 5100 DANIELS PKWY. #300 FT. MYERS, FL 33912 (239) 590-0440
UTILITY LOCATING SERVICE	FIRE CONTROL DISTRICT:
SUNSHINE STATE ONE CALL CENTER PHONE (800) 432-4770 OR 811 (MINIMUM 48 HOURS NOTICE REQUIRED)	LEHIGH ACRES FIRE CONTROL & RESCUE DISTRICT 11 HOMESTEAD RD S LEHIGH ACRES, FL 33936 (239) 303-5300
IRRIGATION WATER	
ON-SITE WELL	

LEGEND:

PROPOSED PAVEMENT	CENTER LINE
PROPOSED CONCRETE	EXIST. FEATURES (ROADS, WALKS, ETC.)
PAINTED HANDICAP PARKING SYMBOL	SITE BOUNDARY
PROPOSED STOP SIGN (R1-1)	NUMBER OF PARKING SPACE IN ROW
PROPOSED ELEVATION 7.26	DRAINAGE DIRECTION ARROW
EXISTING ELEVATION 7.26	PAINTED TRAFFIC ARROWS
	DETECTABLE WARNING PER FDOT INDEX 304

SETBACK TABLE:

	REQUIRED	PROVIDED
ROAD	25'	30'
SIDE YARD	N/A	N/A
REAR YARD	N/A	N/A
MAX. BUILDING HEIGHT (OR 3 STORY)	35'	<35'

LEE PLAN CONSISTENCY:

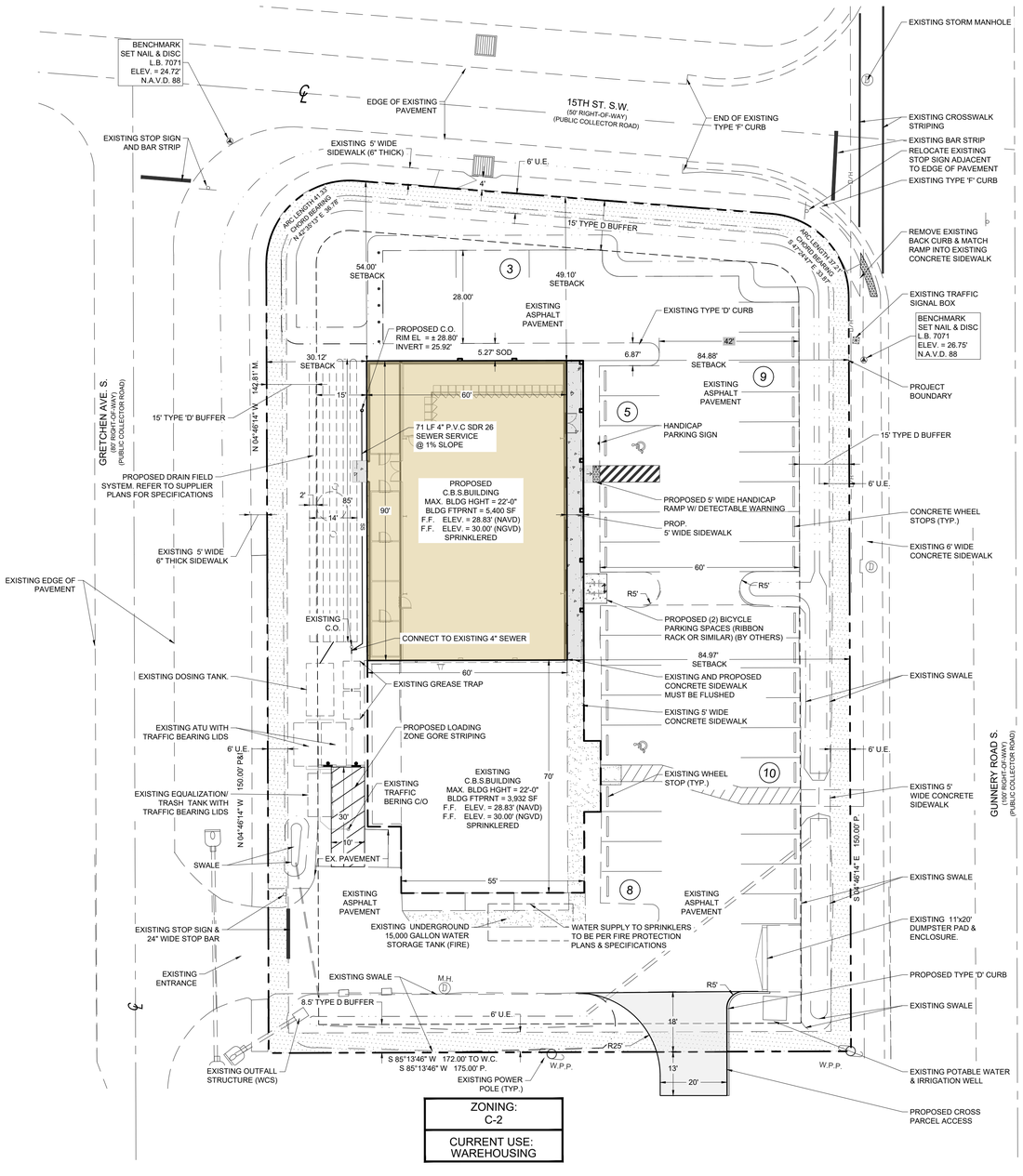
THE PROPOSED PROJECT IS CONSISTENT WITH THE LEE COUNTY LAND DEVELOPMENT CODE AND THE GOALS, OBJECTIVES & POLICIES SET FORTH IN THE LEE PLAN. INCLUDING BUT NOT LIMITED TO STANDARDS AND PROVISIONS, SITE LOCATION CRITERIA, ACREAGE ALLOCATION TABLE, LAND USE CATEGORY & LAND USE MAP.

CALL BEFORE YOU DIG:

SUNSHINE STATE ONE CALL CENTER
PHONE: (800) 432-4770
(MINIMUM 48 HOURS NOTICE REQUIRED)

CONTRACTOR STAKEOUT SHALL BE FROM THE APPROVED CAD FILE BY QUATTRONE AND ASSOCIATES

20' 40'
PLAN VIEW SCALE



ZONING:
C-2

CURRENT USE:
WAREHOUSING

A	4/14/26	COMMENT

LEHIGH CARNICERIA MONTERREY
MASTER SITE & UTILITE PLAN

1501, 1503 & 1505 GRETCHEN AVE. S.
LEHIGH ACRES, FLORIDA 33973

Quattrone & Associates, Inc.
Engineers, Planners, & Development Consultants
4301 Veronica Shoemaker Blvd - Fort Myers, Florida 33916 - 239-936-5222
Certificate of Authorization Number: 9465

ALFRED QUATTRONE, P.E.
FL. REG #52741
VALID ONLY WITH STAMPED SEAL

SAVED BY: David
SAVED ON: 4/14/26

SHEET
SD-05
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SIGNING AND PAVEMENT MARKING NOTES:

1. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE F.D.O.T. STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND LEE COUNTY DEPARTMENT OF TRANSPORTATION PUBLISHED STANDARDS.
2. PAVEMENT MARKINGS SHALL BE PERMANENT TRAFFIC PAINT IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS SECTION 710.
3. MATCH EXISTING PAVEMENT MARKINGS AT EXISTING ROADS.
4. REMOVE ANY EXISTING SIGNS OR PAVEMENT MARKINGS IN CONFLICT WITH THOSE SHOWN ON PLANS.
5. ALL STOP SIGN LOCATIONS SHALL INCLUDE A 24" PAINTED WHITE STOP BAR UNLESS NOTED OTHERWISE.
6. THE CONTRACTOR SHALL COMPLY WITH THE "STATE OF FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS" AND WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
7. THE CONTRACTOR SHALL FURNISH AND INSTALL STREET NAME SIGNS IN ACCORDANCE WITH LEE COUNTY DEVELOPMENT STANDARDS.

GENERAL DRAINAGE NOTES:

1. THE LENGTH OF STORM DRAIN PIPES SHOWN ON PLANS ARE APPROXIMATE AND HAVE BEEN MEASURED FROM THE INSIDE FACE OF STRUCTURE.
2. LOCATIONS OF DRAINAGE STRUCTURES MAY BE FIELD ADJUSTED TO PRESERVE EXISTING VEGETATION AS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE RIMS, GRATES, ETC. AS REQUIRED TO MATCH PROPOSED GRADES.
4. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION
5. SWALE PROFILES SHOWN ARE TO TOP OF SOD. CONTRACTOR TO ADJUST SWALE GRADING ACCORDINGLY.
6. UNLESS OTHERWISE NOTED, SOD A 12" STRIP BEHIND ALL CONCRETE CURB AND VALLEY GUTTER AND AT EDGE OF PAVEMENT PER F.D.O.T. REQUIREMENTS. REMAINING AREAS WITHIN THE ROAD R/W SHALL BE SEEDED, FERTILIZED AND MULCHED. SOD OR SEED & MULCH (AS DIRECTED BY ENGINEER) ALL SWALES, BERMS, RETENTION AREAS, AND SLOPES WITHIN LIMITS OF CONSTRUCTION.
7. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL ENCOUNTERED FROM FILL AREAS PRIOR TO PLACEMENT OF FILL. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
8. DURING CONSTRUCTION, THROAT INLET OPENINGS, WHERE APPROPRIATE, SHALL BE COVERED WITH FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS AND FILL FROM FALLING INTO THE INLET.
9. CASING AND/OR CONDUIT SHALL EXTEND 5' BEYOND THE EDGE OF PAVEMENT, BACK OF CURB AND/OR SIDEWALK AT EACH END.
10. OPTIONAL BRICK PAVERS MAY BE INSTALLED IN LIEU OF ASPHALT PAVEMENT AT THE DISCRETION OF THE OWNER. SEE TYPICAL SECTIONS AND DETAILS FOR PAVEMENT SECTIONS.
11. YARD DRAINS SHALL BE ADDED IN GREEN AREAS AS NECESSARY AT THE DIRECTION OF THE LANDSCAPE ARCHITECT OR ENGINEER.
12. CONTRACTOR TO COORDINATE IRRIGATION CONDUIT LOCATIONS WITH IRRIGATION CONTRACTOR.
13. AT THE REQUEST OF THE OWNER, STORM WATER MANAGEMENT FACILITIES HAVE BEEN DESIGNED TO CONFORM WITH THE MINIMUM REQUIREMENTS OF LEE COUNTY AND/OR ESTABLISHED SFWMD PERMIT DESIGN CRITERIA FOR THIS AREA. DOWNSTREAM DRAINAGE BASIN OUTFALL IS REGULATED BY OTHERS, THE ENGINEER CANNOT WARRANT THE WATER MANAGEMENT SYSTEM TO FUNCTION PROPERLY DURING EXTREME STORM EVENTS.
14. ALL PERIMETER BERMS AND ANY NECESSARY PERIMETER GRADING ARE TO BE CONSTRUCTED FIRST IN ORDER TO RETAIN ALL SURFACE WATER RUNOFF ON SITE WITH THE ONLY DISCHARGE ALLOWED TO BE THROUGH APPROVED WEIRS.
15. ALL TRENCHES TO BE BACKFILLED WITH CLEAN DRY SAND, FINE LIME ROCK OR PIT SHELL MECH. AND TO BE COMPACTED TO AT LEAST 95% OF MAX. DENSITY, OR 98% IF UNDER PAVED AREA OF ROADWAY, AS DETERMINED BY AASHTO SPECIFICATION T-180.

ROOF DRAINS:

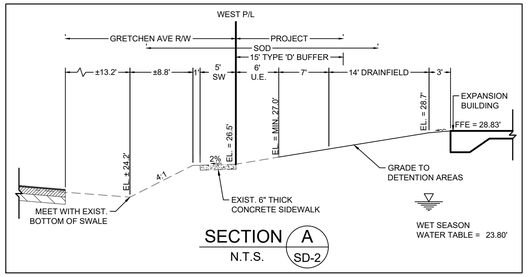
CONTRACTOR AND/OR DEVELOPER SHALL COORDINATE BETWEEN THE ARCHITECT AND THE SITE ENGINEER TO ENSURE THAT ADEQUATE MEASURES ARE IN PLACE FOR ROOF DRAINS (I.E. DOWN SPOUTS ARE DIRECTLY CONNECTED TO THE STORM SEWER SYSTEM, DOWN SPOUTS DISCHARGE DIRECTLY INTO DETENTION AREAS WITH ADEQUATE RIP-RAP PROPOSED, AND/OR DOWN SPOUTS SHEET FLOW ACROSS PAVEMENT AREAS THAT HAVE ADEQUATE STABILIZATION AT THE TRAILING EDGE OF THE PAVEMENT). THE SITE ENGINEER IS NOT RESPONSIBLE FOR EROSION ASSOCIATED WITH ROOF DRAINS.

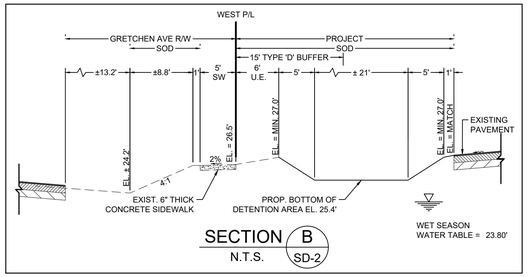
DEWATERING NOTE:

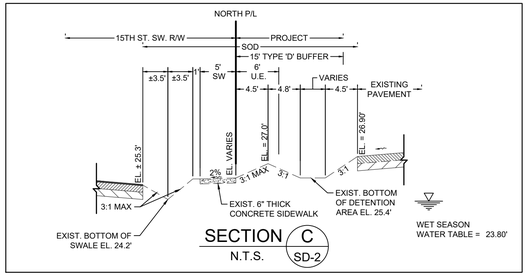
ALL ONSITE EXCAVATION SHALL BE DONE WITHOUT DEWATERING. IF DEWATERING IS DEEMED NECESSARY DURING THE COURSE OF CONSTRUCTION THE SFWMD ENVIRONMENTAL RESOURCE PERMIT SHALL BE MODIFIED AND A SFWMD DEWATERING PERMIT SHALL BE OBTAINED.

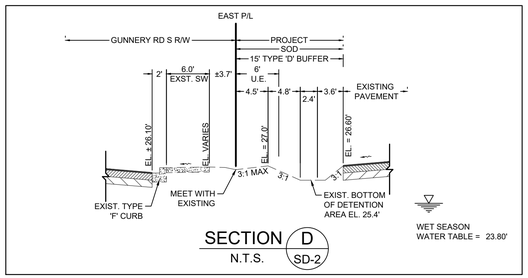
GEOTECHNICAL NOTES:

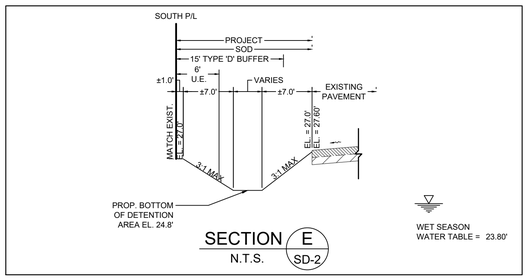
1. UPON COMPLIANCE OF ALL FEDERAL, STATE AND LOCAL REGULATIONS BY THE OWNER, THIS SITE MAY BE SAFELY USED FOR BUILDING PURPOSES WITHOUT UNDUE DANGER FROM FLOOD. THE OWNER SHOULD RETAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO DETERMINE IF SUBSURFACE CONDITIONS EXIST WHICH MAY ADVERSELY EFFECT THE DEVELOPMENT OF THIS SITE. THE OWNER SHOULD RETAIN THE SERVICES OF A QUALIFIED STRUCTURAL ENGINEER TO DETERMINE CORRECT FOUNDATION DESIGNS FOR ANY PROPOSED STRUCTURES ON THE SITE.
2. THERE WILL BE NO ADVERSE IMPACTS TO GROUND OR SURFACE WATERS, WETLANDS, FLOOD PLAINS OR RIVERINE AREAS, OR ANY KNOWN ARCHEOLOGICAL SITES EXPECTED BY THE DEVELOPMENT OF THIS SITE. A "CERTIFICATE TO DIG" IS NOT REQUIRED FOR THIS PROJECT PER LEE COUNTY ARCHEOLOGICAL SENSITIVITY MAP.
3. A VEGETATION PERMIT IS REQUIRED PRIOR TO ANY SITE WORK. PROTECTIVE BARRICADES MUST BE CONSTRUCTED AND INSPECTED PRIOR TO PERMIT ISSUANCE.
4. ANY EXISTING TOPSOIL AND UNSUITABLE ORGANIC SOILS (IF ENCOUNTERED) SHOULD BE STRIPPED AND UNDERCUT FROM WITHIN THE LIMITS OF THE PROPOSED PAVEMENTS, PROPOSED BUILDING FOOTPRINT AND A MINIMUM OF 5 FEET BEYOND THE BUILDING FOOTPRINT.
5. THE CONTRACTOR SHALL ENSURE THAT THE EXISTING SOILS WITHIN THE LIMITS OF THE DRY DETENTION AREAS AND TO A DEPTH OF AT THE LEAST THE WATER TABLE ARE SUITABLE FOR ADEQUATE PERCOLATION. MATERIAL IMPORTED FOR USE IN DRY DETENTION AREAS MUST ALSO BE SUITABLE FOR ADEQUATE PERCOLATION.











CROSS SECTION NOTE:

ANY NATURAL GROUND AREA DISTURBED BY THE CONTRACTOR SHALL BE FERTILIZED, MULCHED, AND SEEDED.

VERTICAL DATUM: NAVD

THIS DRAWING AND ALL ELEVATIONS SHOWN ARE BASED ON THE NATIONAL AMERICAN VERTICAL DATUM (NAVD 88) "ADD 1.17' TO CONVERT TO NGVD 29"

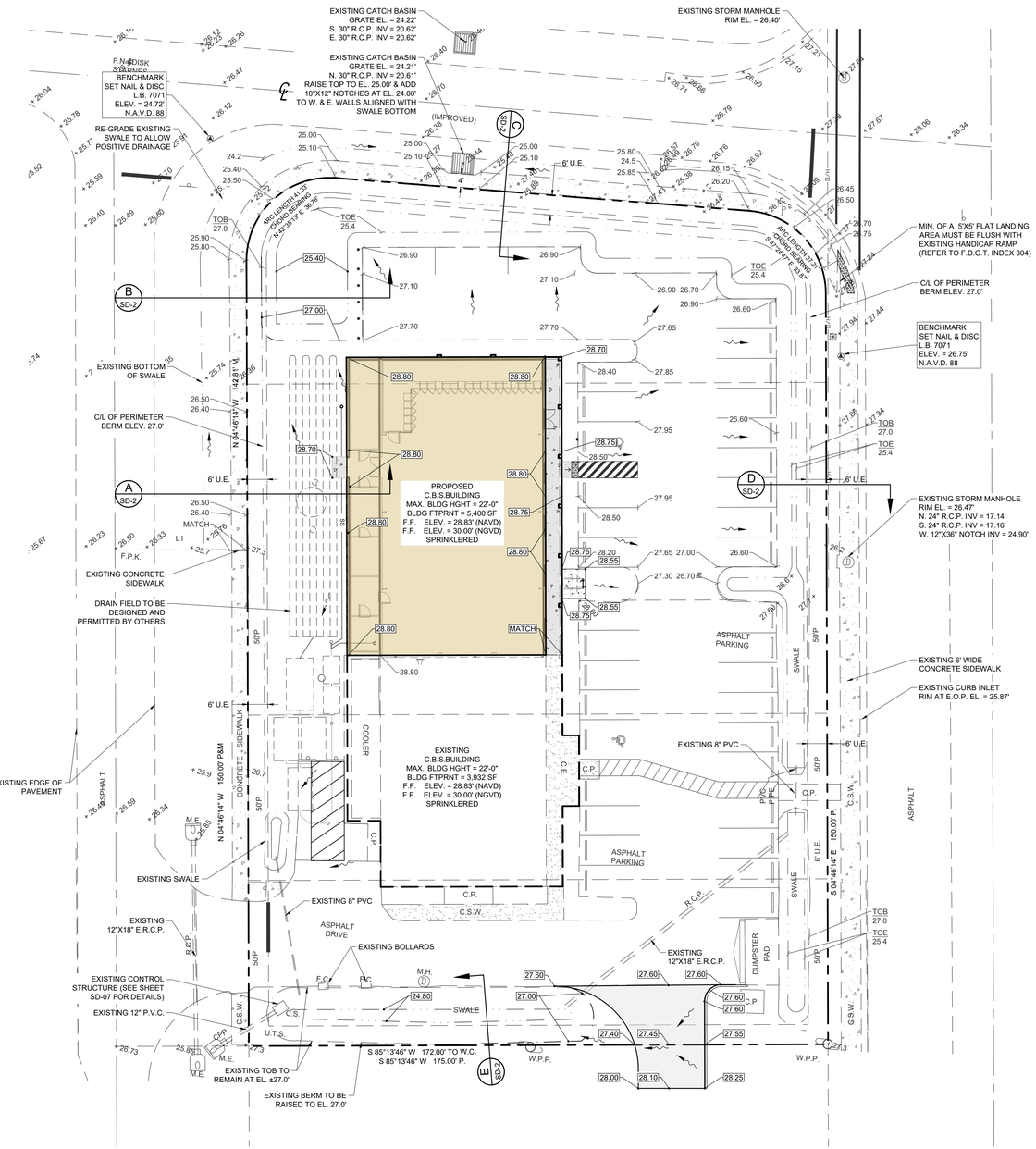
CONTRACTOR STAKEOUT SHALL BE FROM THE APPROVED CAD FILE BY QUATTRONE AND ASSOCIATES

20' 40'

PLAN VIEW SCALE

LEGEND:

- PROPOSED PAVEMENT
- PROPOSED CONCRETE
- PAINTED HANDICAP PARKING SYMBOL
- PROPOSED STOP SIGN (R1-1)
- 7.26 PROPOSED ELEVATION
- 7.26 EXISTING ELEVATION
- CENTER LINE
- EXIST. FEATURES (ROADS, WALKS, ETC.)
- SITE BOUNDARY
- # NUMBER OF PARKING SPACE IN ROW
- DRAINAGE DIRECTION ARROW
- PAINTED TRAFFIC ARROWS
- DETECTABLE WARNING PER FDOT INDEX 304



LEHIGH CARNICERIA MONTERREY
PAVING GRADING & DRAINAGE PLAN
1501, 1503 & 1505 GRETCHEN AVE. S.
LEHIGH ACRES, FLORIDA 33973

Quattrone & Associates, Inc.
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Certificate of Authorization Number: 9465

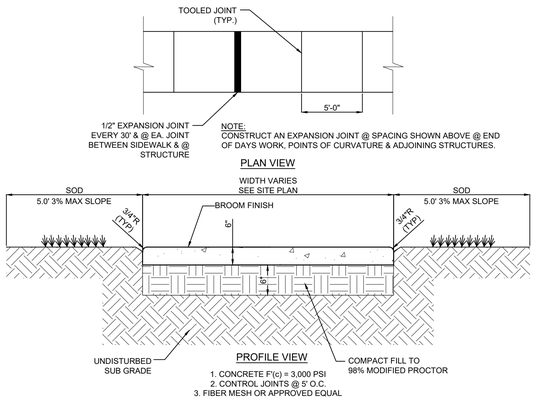
ALFRED QUATTRONE, P.E.
FL. REG #52741
VALID ONLY WITH STAMPED SEAL

SAVED BY: David
SAVED ON: 4/14/26

SHEET
SD-06
06 OF 08

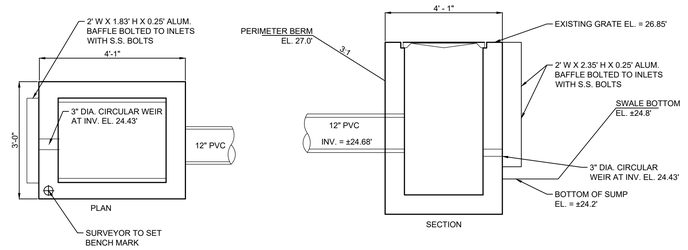
COMMENT
DATE

P:\2014 Projects\141201 LEHIGH CARNICERIA MONTERREY - ACTIVE\01-CADD FILES\00-QAI CADD\LAMSID\141201-N-LAMSID



TYPICAL CONCRETE SIDEWALK

N.T.S.

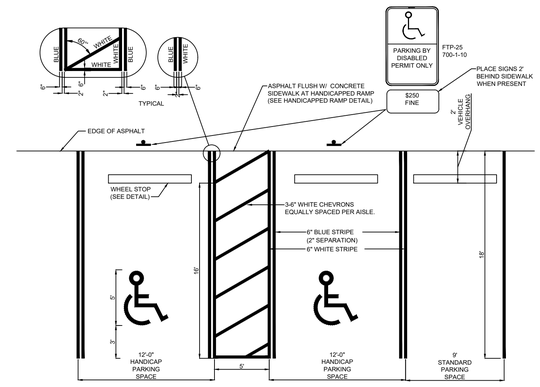


ELEVATIONS CONVERTED FROM NGVD 29 TO NAVD 88

NOTE:
CONTRACTOR SHALL VERIFY
ALL DRAINAGE PIPES SHOULD NOT
HAVE ANY BLOCKAGE IMPEDING FLOW &
MAKE CORRECTIONS IF EXISTING
STRUCTURE DOESN'T MATCH
ELEVATIONS PER DOS2015-00031

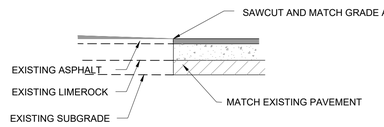
EXSITING CONTROL STRUCTURE DETAIL

N.T.S.



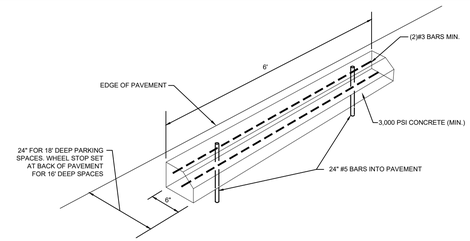
TYPICAL HANDICAP PARKING SPACE DETAIL

N.T.S.



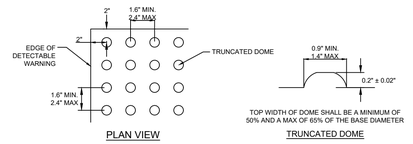
TYPICAL MATCH PAVEMENT DETAIL

N.T.S.



TYPICAL CONCRETE WHEEL STOP DETAIL

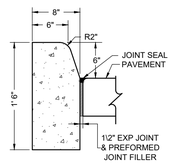
N.T.S.



ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF CURB

DETECTABLE WARNING DETAIL

N.T.S.



TYPICAL TYPE 'D' CURB DETAIL

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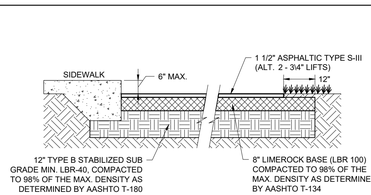
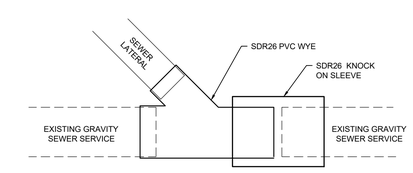


TYPICAL PAVEMENT SECTION - COMMERCAIL DETAIL

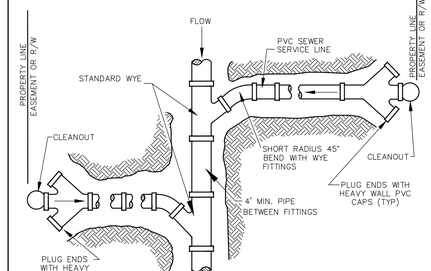
N.T.S.



TYPICAL CUTTING IN WYE DETAIL

N.T.S.

STANDARD DETAIL NO. 9.38
LEE COUNTY UTILITIES
STANDARD SEWER SERVICE LATERALS



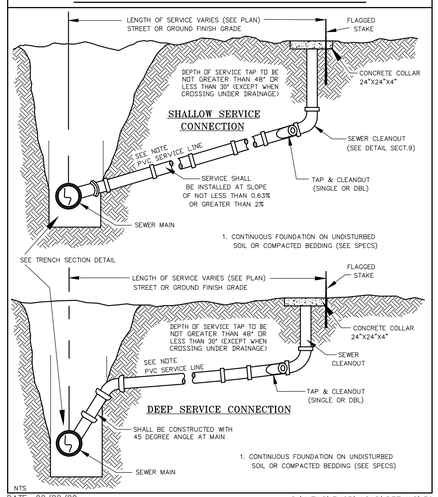
NOTE: 1. SEE SPECS FOR DETAILS OF PIPE AND FITTINGS.

NTS

DATE: 02/22/00

S:\UTILS\ENGR\ACAD\DETAILS\38

STANDARD DETAIL NO. 9.39
LEE COUNTY UTILITIES
STANDARD SEWER SERVICE LATERAL

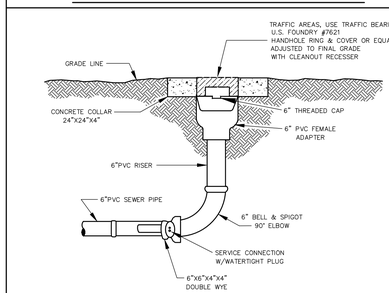


NTS

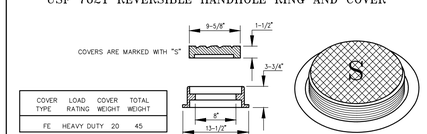
DATE: 02/22/00

S:\UTILS\ENGR\ACAD\DETAILS\39

STANDARD DETAIL NO. 9.40
LEE COUNTY UTILITIES
6" SEWER CLEAN-OUT DETAIL



USF 7621 REVERSIBLE HANDHOLE RING AND COVER



COVER TYPE	LOAD RATING	COVER WEIGHT	TOTAL WEIGHT
FE	HEAVY DUTY	20	45

NTS

DATE: 02/22/00

S:\UTILS\ENGR\ACAD\DETAILS\40

COMMENT	DATE

LEHIGH CARNICERIA MONTERREY
TYPICAL DETAILS
1501, 1503 & 1505 GRETCHEN AVE. S.
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SAVED ON: 4/14/26

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SD-07
07 OF 08

P:\2014 Projects\141201 LEHIGH CARNICERIA MONTERREY - ACTIVE\01-CADD FILES\00-QAI CADD\LAMSID\141201-N-LAMSID

Quattrone & Associates, Inc.
Engineers, Planners & Development Consultants
4301 Veronica Shoemaker Boulevard, Fort Myers, FL 33912
239.936.5222 | QAINC.NET | f 239.936.7228

EXPANSION CARNICERIA MONTERREY

STORMWATER MANAGEMENT ENGINEERING REPORT

April 2026

Al Quattrone, State of Florida, Professional Engineer, License No. 52471. This item has been digitally signed and sealed by Alfred Quattrone on the date indicated here. Printed copies of this document Are not considered signed and sealed and the signature must be Verified on any electronic copies.

Prepared by:
Alfred Quattrone P.E.
FL. PE#52741

QAI Project #141201

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Appendix A – Site Calculations:

- Proposed Land Use Table
- Water Quality Calculations
- Proposed Stage Storage

I. INTRODUCTION

The subject project is located along the west side of Gunnery Rd S and approximately 1.10 miles north of State Road 82. The Strap Numbers for the proposed project are 04-45-26-05-00010.0010, .0020 and .0030; Section 04, Township 45, and Range 26E in Fort Myers, FL.

II. EXISTING CONDITIONS

The subject site is currently a developed commercial site with a 3,500 square foot building and associated paved parking lot and sidewalks totaling 0.50 acres of impervious area. Under existing conditions, stormwater is managed through a Type C control structure with a 3" weir at EL. 24.43' NAVD and a grate at EL. 26.85' NAVD. Runoff from the site flows to the existing roadside swale located along Gretchen Ave S. The wet season water table was established at EL. 23.80' NAVD per the existing permit DOS2015-00031.

III. PROPOSED PROJECT

The proposed activities for the subject site include expanding the existing building to the north by 5,400 square feet, resulting in a total building footprint of 9,332 square feet. Additionally, cross-parcel access will be proposed, resulting in an additional 500 square feet of on-site pavement. The proposed project meets water quality requirements for the proposed expansion via existing swales along the project boundary. Project limits and location maps are included as exhibits following this narrative.

IV. PROPOSED CONDITIONS

Water Quality:
The on-site water quality was determined by calculating 2.5" over impervious area within the proposed site which resulted in 0.128 ac-ft of required treatment volume including an additional 50% for BMP. The water quality analysis methodology used for the proposed expansion and pavement addition is consistent with the existing permit. The required water quality volume will be provided between elevation 24.80' NAVD to 26.85' NAVD through the use of the on-site swales. To increase water quality volume storage, the existing southern swale will be re-graded, lowering the toe from elevation 25.40' NAVD to 24.80' NAVD. Similarly, the existing northwest swale will be re-graded, expanding the toe and top of bank by approximately 20'. Stormwater will be discharged to the existing roadside swale along Gretchen Ave S via the existing Type C control structure. Please refer to Appendix A for the full water quality calculation and stage storage table for the proposed project area.

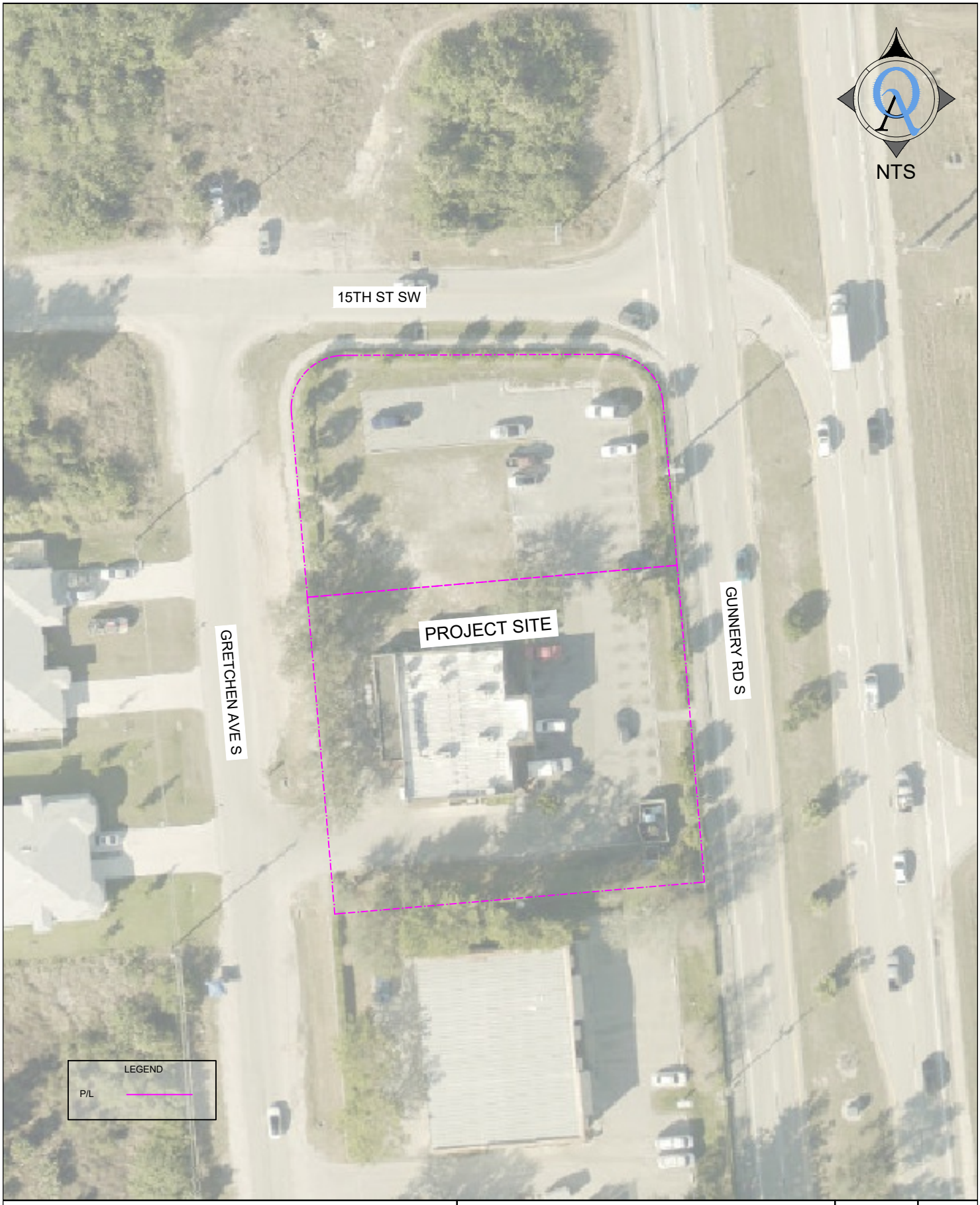
Please see the following table with the Basic Site & Modeling Information, Design Modeling Summary Data and Design Parameter Summary:

Basic Site & Modeling Information			
Total Project Area	1.03 acres		
Control Elevation	23.8' NAVD		
Design Parameter Summary			
	Min. Required	**Provided**	**Notes**
Water Quality (acre-feet)	0.128	0.192	Provided from 24.80'' to 26.85'

V. SUMMARY OF RESULTS

Per the above calculated information, the proposed project meets the water quality volume requirements by utilizing detention areas and swales along the perimeter of the property and does not propose any adverse impacts to the surrounding parcels.

EXHIBIT A-AERIAL MAP



Quattrone & Associates, Inc.
Engineers, Planners, & Development Consultants
4301 Veronica Shoemaker Blvd - Fort Myers, Florida 33916 - 239-936-5222
Certificate of Authorization Number: 9465

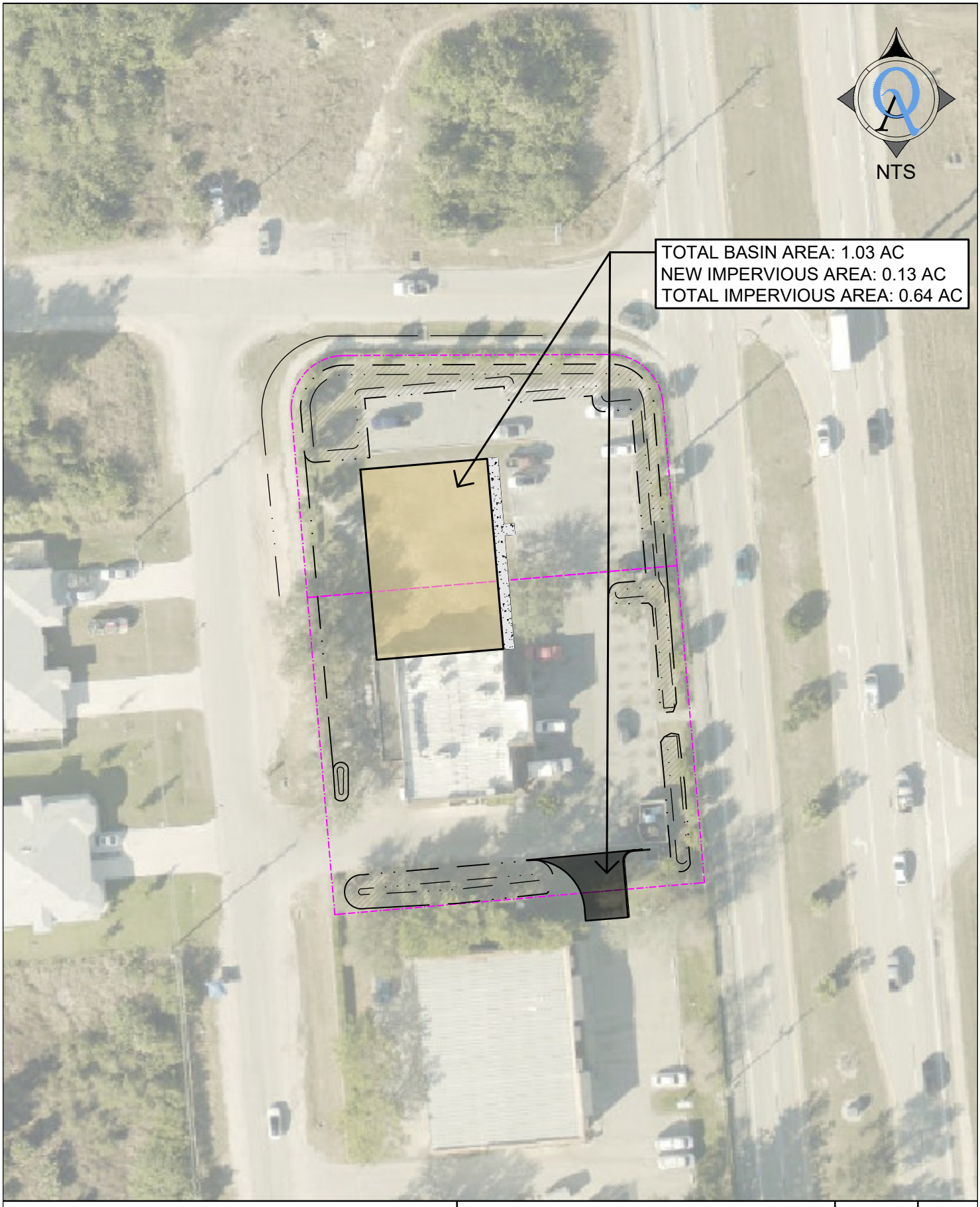
EXPANSION CARNICERIA MONTERREY

AERIAL MAP EXHIBIT

1501, 1503 & 1505 GRETCHEN AVE. S.
LEHIGH ACRES, FL 33973

SHEET
EX-A
01 OF 01

EXHIBIT B – BASIN AREA EXHIBIT



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Certificate of Authorization Number: 9465

EXPANSION CARNICERIA MONTERREY

BASIN AREA EXHIBIT

1501, 1503 & 1505 GRETCHEN AVE. S.
LEHIGH ACRES, FL 33973

SHEET
EX-B
01OF 01

Appendix A – Site Calculations

Existing Land Use Table

EXISTING PROJECT LANDUSE		
DESCRIPTION	AC	%
TOTAL AREA	1.03	100%
BUILDING GROUND FLOOR AREA	0.09	9%
PAVEMENT AREA	0.39	38%
OTHER IMPERVIOUS	0.02	2%
PERVIOUS ACREGE	0.53	51%
TOTAL IMPERVIOUS AREA	0.50	49%
TOTAL PERVIOUS AREA	0.53	51%

Proposed Land Use Table

PROPOSED PROJECT LANDUSE		
DESCRIPTION	AC	%
TOTAL BASIN AREA	1.03	100%
BUILDING GROUND FLOOR AREA	0.21	21%
PAVEMENT AREA	0.40	39%
OTHER IMPERVIOUS	0.03	3%
TOTAL IMPERVIOUS AREA	0.65	63%
TOTAL PERVIOUS AREA	0.38	37%
TOTAL PROJECT AREA	**1.03**	100%

Water Quality Calculations

WATER QUALITY	DRY DETENTION	75% Credit for Dry Detention		
FIRST 1"OF RUNOFF	0.086 AC-FT	3728 CF		
2.5" x % IMPERVIOUS	0.813 AC			
IMPERVIOUS WQ AC	0.433 AC			
INCHES TO BE TREATED	1.33 IN			
AC-FT TO BE TREATED	0.114 AC-FT			
REQUIRED QUALITY TREATMENT w/ CREDIT	0.086 AC-FT			
REQUIRED QUALITY TREATMENT W/150%	0.128 AC-FT	Required Stage =	26.49	' NAVD
ACTUAL WATER QUALITY PROVIDED	0.192 AC-FT	Actual Stage =	26.85	' NAVD

Proposed Stage Storage Table

STAGE VS STORAGE CURVE

	LAKES	ROADS	MISC IMP	PERV	DETENTION	INDIGENOUS	TOTAL	EL DELTA
AREA (AC)	0.00	0.40	0.03	0.22	0.16	0.00	0.81	0.50
MIN EL (FT)	0.00	0.00	0.00	0.00	0.00	0.00		
MAX EL (FT)	0.00	0.00	0.00	0.00	0.00	0.00	TOTAL w/o	TOTAL w/
ELEV.			STORAGE (AC-FT)				INDIGENOUS	INDIGENOUS
23.80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.30	0.000	0.000	0.000	0.000	0.005	0.000	0.005	0.005
25.80	0.000	0.000	0.000	0.000	0.040	0.000	0.040	0.040
26.30	0.000	0.000	0.000	0.000	0.098	0.000	0.098	0.098
26.80	0.000	0.004	0.000	0.000	0.174	0.000	0.179	0.179
27.30	0.000	0.046	0.004	0.006	0.256	0.000	0.311	0.311
27.80	0.000	0.136	0.011	0.040	0.338	0.000	0.524	0.524
28.30	0.000	0.272	0.022	0.105	0.420	0.000	0.819	0.819
28.80	0.000	0.456	0.036	0.202	0.502	0.000	1.195	1.195
29.30	0.000	0.657	0.052	0.310	0.583	0.000	1.602	1.602
29.80	0.000	0.857	0.068	0.418	0.665	0.000	2.008	2.008
30.30	0.000	1.058	0.084	0.526	0.747	0.000	2.414	2.414
30.80	0.000	1.259	0.099	0.634	0.829	0.000	2.821	2.821
31.30	0.000	1.460	0.115	0.741	0.911	0.000	3.227	3.227

FLORIDA DEPARTMENT OF
Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Ron DeSantis
Governor

Jay Collins
Lt. Governor

Alexis A. Lambert
Secretary

SELF-CERTIFICATION FOR A STORMWATER MANAGEMENT SYSTEM IN UPLANDS SERVING LESS THAN 10 ACRES OF TOTAL PROJECT AREA AND LESS THAN 2 ACRES OF IMPERVIOUS SURFACES

Owner(s)/Permittee(s):	CARNICERIA MONTERREY II INC
File No:	0470865001EG
File Name:	EXPANSION CARNICERIA MONTERREY
Site Address:	1501 Gretchen Ave S Lehigh Acres FL - 33973
County:	Lee
Latitude:	26° 35' 53.089"
Longitude:	-81° 42' 47.8345"
Total Project Area:	1.03
Total Impervious Surface Area:	0.65
Approximate Date of Commencement of Construction:	04/29/2026
Registered Florida Professional:	Al Quattrone
License No.:	52741
Company:	Quattrone & Associates, Inc.

Date: April 15, 2026

Al Quattrone certified through the Department's Enterprise Self-Service Application portal that the project described above was designed by the above-named Florida registered professional to meet the following requirements:

(a)The total project area involves less than 10 acres and less than 2 acres of impervious surface;
(b)Activities will not impact wetlands or other surface waters;
(c)Activities are not conducted in, on, or over wetlands or other surface waters;
(d)Drainage facilities will not include pipes having diameters greater than 24 inches, or the hydraulic equivalent, and will not use pumps in any manner;
(e)The project is not part of a larger common plan, development, or sale; and
(f)The project does not:

1.Cause adverse water quantity or flooding impacts to receiving water and adjacent lands;
2.Cause adverse impacts to existing surface water storage and conveyance capabilities;
3.Cause a violation of state water quality standards; or
4.Cause an adverse impact to the maintenance of surface or ground water levels or surface water flows established pursuant to s. 373.042 or a work of the district established pursuant to s. 373.086, F.S.

This certification was submitted before initiation of construction of the above project. The system is designed, and will be operated and maintained in accordance with applicable rules adopted pursuant to part IV of chapter 373, F.S. There is a rebuttable presumption that the discharge from such system will comply with state water quality standards.Therefore, construction, alteration, and maintenance of the stormwater management system serving this project is authorized in accordance with s.403.814(12), F.S.

In accordance with s. 373.416(2), F.S., if ownership of the property or the stormwater management system is sold or transferred to another party, continued operation of the system is authorized only if notice is provided to the Department within 30 days of the sale or transfer.This notice can be submitted to:

FDEP South District
2295 Victoria Ave
Ft. Myers, FL33901

This certification was submitted along with the following electronic documents:

If you have submitted this certification as a Florida Registered Professional, you may wish to sign and seal this certification, and return a copy to the Department, in accordance with your professional practice act requirements under Florida Statutes.

I, Al Quattrone, License No. 52741, do hereby certify that the above information is true and accurate, based upon my knowledge, information and belief. In the space below, affix signature, date, seal, company name, address and certificate of authorization (if applicable).

This sealed certification may be submitted to the Department, either electronically (as an attachment in Adobe PDF or other secure, digital format) at FTMERP_Compliance@FloridaDEP.gov, or as a hardcopy, at the postal address below:

FDEP South District
2295 Victoria Ave
Ft. Myers, FL33901

PART IV #26-68

Recommended Action

Engineering Review:

By: _____ 4/29/2026 **Approved** _X_ **Denied** ___

District Field Review:

By: _____ **Approved** ___ **Denied** ___

District Manager: _____ **Date**: _____

Comments:

The referenced permit application for Expansion Carniceria Monterrey on 1501, 1503 & 1505 Gretchen Ave., in Lehigh Acres, submitted by Quattrone & Associates, Inc., has been reviewed and is recommended for approval with the following stipulations/comments:

1. The permittee shall submit signed and sealed record drawings within thirty (30) days of project completion. The drawings must include sufficient detail to demonstrate that the permitted facilities have been constructed in substantial compliance with LA-MSID–approved plans and design.

2. Prior to commencing construction, the permittee shall provide LA-MSID with copies of all applicable permits from other governing agencies.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: PER #26-69, Parking Lot & Outdoor Storage – Behind 1390 Lee Blvd.

Meeting Date: June 15, 2026

Agenda Item # 2F

[x] **CONSENT** [ ] **ACTION** [ ] **OLD BUSINESS** [ ] **NEW BUSINESS**

Request Initiated By: [ ] **COMMISSIONER** _____ [ ] **ATTORNEY**

[ ] **BOARD** [x] **MANAGER** [ ] **ENGINEER** [ ] **AUDITOR**

Recommended motion: Move to approve PER #26-69, Parking Lot & Outdoor Storage, with any listed stipulations.

What the action accomplishes: Allows AARAY Investment, LLC, to develop a commercial site at Behind 1390 Lee Blvd., while certifying on their plans that their stormwater facilities are adequate and able to discharge less than 30 CSM.

Fiscal Impact: Permit Fees: $1,500.00

Staff comments: Approved according to the plans submitted April 23, 2026.

Staff review and recommended approval:

[x] **MANAGER** [ ] **ASSISTANT DISTRICT MGR**

[ ] **ATTORNEY** [ ] **FIELD SUPERINTENDENT**

[x] **ENGINEER** [x] **CONTROLLER**

Board Action:

[ ] **APPROVED** [ ] **DENIED** [ ] **DEFERRED**

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to AARAV Investment, LLC, 9365 Via Murano Court, Fort Myers, FL 33905, hereinafter referred to as the "Permittee") as a non-exclusive permit for a commercial development for parking and outdoor storage on (1.07 +/- acres), located at 1390 Lee Blvd, with an on-site detention system and a stormwater outfall to an existing catch basin along East Pointe Drive, that drains to Slider Canal (47-30-8), in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-69

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-69 is approved according to the plans and calculations submitted April 23rd, 2026.

2). Maintenance of the entire on-site storm water management system, including the control structure and outfall pipe into the existing catch basin along East Point Drive is the responsibility of the Permittee.

3). A permanent benchmark disc should be established on the proposed control structure in the northeast corner of the site, with the elevation and referenced datum clearly labeled on it.

4). An "As-Built" survey showing the completed improvements (including perimeter berm, pipe inverts, adjacent building existing finished floor elevation and outfall structure elevations) must be submitted to Lehigh Acres - MSID within 30 days following completion of the improvements.

5). Permittee shall obtain any other permits required by EPA, FDEP, SFWMD, Lee County, and LC DOT prior to starting construction.

PART I

DATE SUBMITTED: 04 - 23 - 26

PERMIT #: 26 - 69

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: Dean Martin, P.E. **PHONE #:** (239)433-4231

PROJECT NAME: 1390 Lee Blvd

TOTAL ACREAGE: 1.07

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): **1390 Lee Blvd., Lehigh Acres, FL 33936**					
Mailing Address:	**9365 Via Murano Court**				
City:	**Fort Myers**	**State:**	**FL**	**Zip:**	**33905**

STRAP NUMBERS (*attach additional sheet if necessary*):

3	0	-	4	4	-	2	7	-	0	0	-	0	0	0	0	1	-	0	0	8	0
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				

Brief description of proposed project:

Application for: To develop this vacant parcel into an outdoor storage facility for trucks w/ associated landscaping, surface parking, storm water detention, & utility infrastructure.

Is the project proposed to be developed in phases? ☐ **Yes** ☒ **No**

Estimated # of Phases:	
***Permit Fee:**	**$ $1,500.00** **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

RECEIVED
APR 23 2026
LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	AARAV Investment, LLC						
Mailing Address:	Street:	9365 Via Murano Court					
City:	Fort Myers	State:	FL			Zip:	33936
Phone No.	Area Code:	239	Number:	851-2260		Ext.	
Fax No.	Area Code:		Number:	-			
E-mail Address:	ronypatel@yahoo.com						

B. Relationship of applicant to property*:

☒ Owner* ☐ Trustee* ☐ Option holder* ☐ Lessee*

☐ Contract Purchaser* ☐ Other (indicate)* _____

C.

Name of Developer:	Same as Applicant					
Mailing Address:	Street:					
City:		State:			Zip:	
Phone No.	Area Code:	( )	Number:	-	Ext.	
Fax No.	Area Code:	( )	Number:	-		
E-mail Address:						

D.

Name of Authorized Agent(s):	Dean Martin, P.E., of TDM Consulting, Inc.					
Mailing Address:	Street:	43 Barkley Circle, Suite 200				
City:	Fort Myers	State:	FL		Zip:	33907
Phone No.	Area Code:	(239)	Number:	433-4231	Ext.	
Fax No.	Area Code:	(239)	Number:	433-9632		
E-mail Address:	Dean@tdmconsulting.com					

E.

Name of Property Owner:	Same as applicant					
Mailing Address:	Street:					
City:		State:			Zip:	
Phone No.	Area Code:	( )	Number:	-	Ext.	
Fax No.	Area Code:	( )	Number:	-		
E-mail Address:						

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

PRIMARY STRAP NUMBER: 30-44-27-00-00001-0080

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest
Ronak Patel	**50%**
Vandana Patel	**50%**
9365 Via Murano Ct,	
Fort Myers, FL 33905	

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

SIGNATURE OF APPLICANT

Ronak Patel, Managing Member

PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 13th day of APR (m), 2026 (y), by RONAK PATEL who is personally know to me or has produced FL DL as identification.

Notary Public State of Florida
Palakkumar Patel
My Commission
HH 275295
Exp. 6/12/2026

SIGNATURE OF NOTARY PUBLIC

PALAKKUMAR PATEL

PRINTED NAME OF NOTARY PUBLIC

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

ENGINEER

Name:	**Dean Martin, P.E., TDM Consulting, Inc.**						
Mailing Address:	**1520 Royal Palm Square Blvd, Suite 100**						
City:	**Fort Myers**	**State:**	**FL**			**Zip:**	**33919**
Business No.	**Area Code:**	**(239)**	**Number:**	**433-4231**		**Ext.**	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
2	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
0	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
0	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

CIVIL ENGINEERING
TDM
CONSULTING, INC.

1520 Royal Palm Square Blvd, Suite 100
Fort Myers, FL 33919
Phone 239-433-4231
www.tdmcivilengineering.com
Certificate of Authorization # 29086

April 23, 2026

LAMSID
601 East County Lane
Lehigh Acres, FL 33936

Reference: **1390 Lee Blvd**
Lee County **30-44-27-00-00001.0080**

Dear Madam or Sir:

Please find the following items in relation to this request for a General Permit to allow controlled storm water discharge from the above referenced project into LAMSID right-of-way:

1. Two (2) copies of the completed Application for a Permit;
2. Two (2) copies of the signed and sealed Site Construction Plans,
3. Two (2) copies of the signed and sealed Boundary & Topographic Survey;
4. Two (2) copies of signed and sealed Storm Water and Area Calculations, including applicable flood routings;
5. Two (2) CD's containing the Site Construction Plans in Auto CADD and PDF format;
6. Two (2) copies of the Professional Consultants Information Form; and
7. A check for $1,500.00 for the requisite permit processing fee.

This should allow for review and approval of the general permit. Should LAMSID staff require additional information or have any questions regarding this submittal, feel free to call this office.

Sincerely,

TDM CONSULTING, INC.

Dean Martin

Dean Martin, P.E.

RECEIVED
APR 23 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

JAY HELI LLC
1432 Lee Boulevard
Lehigh Acres,FL,33936

Bank Of America

53

DATE Apr 13,2026

PAY TO THE ORDER OF LAMSID

$ **1,500.00

One Thousand Five Hundred and 00/100*****

DOLLARS

LAMSID

Void After 90 Days

MEMO

AUTHORIZED SIGNATURE

COPY

⑈53⑈ ⑆063100277⑆ 898142787066⑈

JAY HELI LLC
1432 Lee Boulevard
Lehigh Acres,FL,33936

LAMSID

Permit #26-69

Apr 13,2026 LAMSID 53

Pay To: LAMSID

Pay From: JAY HELI LLC
1432 Lee Boulevard
Lehigh Acres,FL,33936

COPY

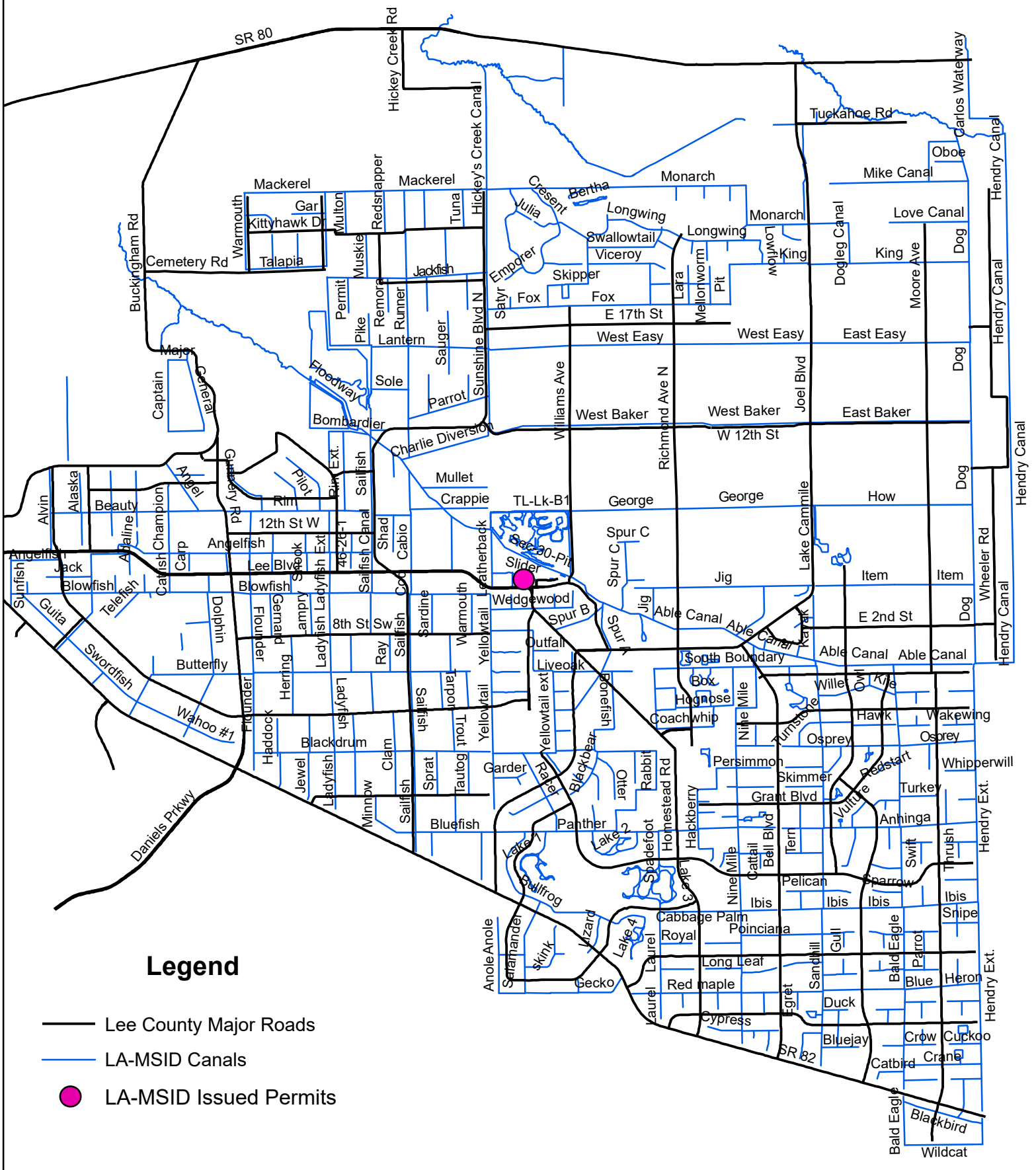
MEMO

JAY HELI LLC

**1,500.00

RECEIVED
APR 23 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

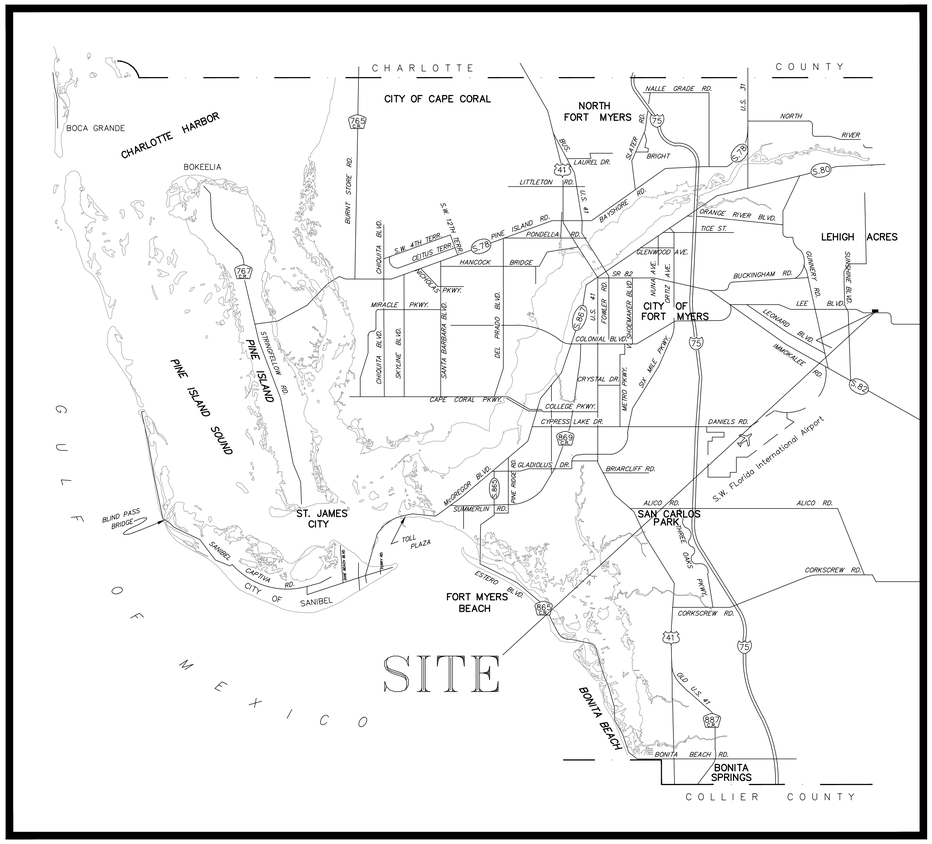
Permit # 2026-69



SITE CONSTRUCTION PLANS
FOR
1390 LEE BOULEVARD
LEE COUNTY, FLORIDA
SECTION 30, TOWNSHIP 44S, RANGE 27E

PLAN INDEX

COVER	1
BOUNDARY & TOPOGRAPHIC SURVEY	2
AERIAL LOCATION MAP	3
DEMOLITION PLAN	4
SITE DIMENSION PLAN	5
PAVING, GRADING, AND DRAINAGE PLAN	6
PAVING, GRADING, AND DRAINAGE DETAILS	7
CROSS SECTIONS AND EXISTING HYDROLOGY MAP	8
STORMWATER POLLUTION PREVENTION PLAN	9
STORMWATER POLLUTION PREVENTION DETAILS	10
~~SITE LIGHTING PLAN~~	~~11~~



LOCATION SKETCH
N.T.S.

OWNER/DEVELOPER

AARAV INVESTMENT, LLC.
9365 Via Murano Court
Fort Myers, Florida 33905
Phone: (239) 851-2260

CIVIL ENGINEER

CIVIL ENGINEERING
TDM CONSULTING, INC.
1520 Royal Palm Square Blvd., Ste 100
Fort Myers, FL 33919
Phone: (239) 433-4231
Email: dean@tdmconsulting.com
www.tdmcivilengineering.com
Certificate of Authorization # 29086

DEAN MARTIN
FLORIDA P.E. #52022

This item has been digitally signed and sealed by Dean Martin on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

BOUNDARY & TOPOGRAPHIC SURVEY
SUBMITTED SEPARATELY

DATE: 03/2026	DESIGNED BY: RR	DRAWN BY: RR	CHECKED BY: TDM	APPROVED BY: TDM

⚠	DATE	REVISIONS

DRAWING NAME: J:\OBS\Ronak Patel\1390 Lee Boulevard-Lehigh\Design\SURVEY.dwg

1390 LEE BOULEVARD

BOUNDARY & TOPOGRAPHIC SURVEY

CIVIL ENGINEERING TDM CONSULTING, INC.

1520 Royal Palm Square Blvd.
Suite 100
Fort Myers, FL 33919
Phone: (239) 433-4231
Cert. of Authorization # 29086

Civil Engineering and Planning

dean@tdmconsulting.com
www.tdmcivilengineering.com

NOT VALID WITHOUT EMBOSSED SEAL, SIGNATURE, AND DATE

Dean Martin, P.E.
Florida #52022

DATE:

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SHEET # 2 of 11

SCALE: N.T.S.

STREET ADDRESS
1390 LEE BOULEVARD
LEHIGH ACRES, FL 33936

STRAP NUMBER
30-44-27-00-00001.0080

1" = 80'

N

TDM

NOT VALID WITHOUT EMBOSSED SEAL, SIGNATURE, AND DATE.

SHEET #				
3 of 11				
SCALE: 1" = 80'	Dean Martin, P.E. Florida #52022 — DATE:	This item has been digitally signed and sealed by Dean Martin on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.		

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Suite 100
Fort Myers, FL 33919
Phone: (239) 433-4231
Cert. of Authorization # 29086

Civil Engineering and Planning

dean@tdmconsulting.com
www.tdmcivilengineering.com

1390 LEE BOULEVARD

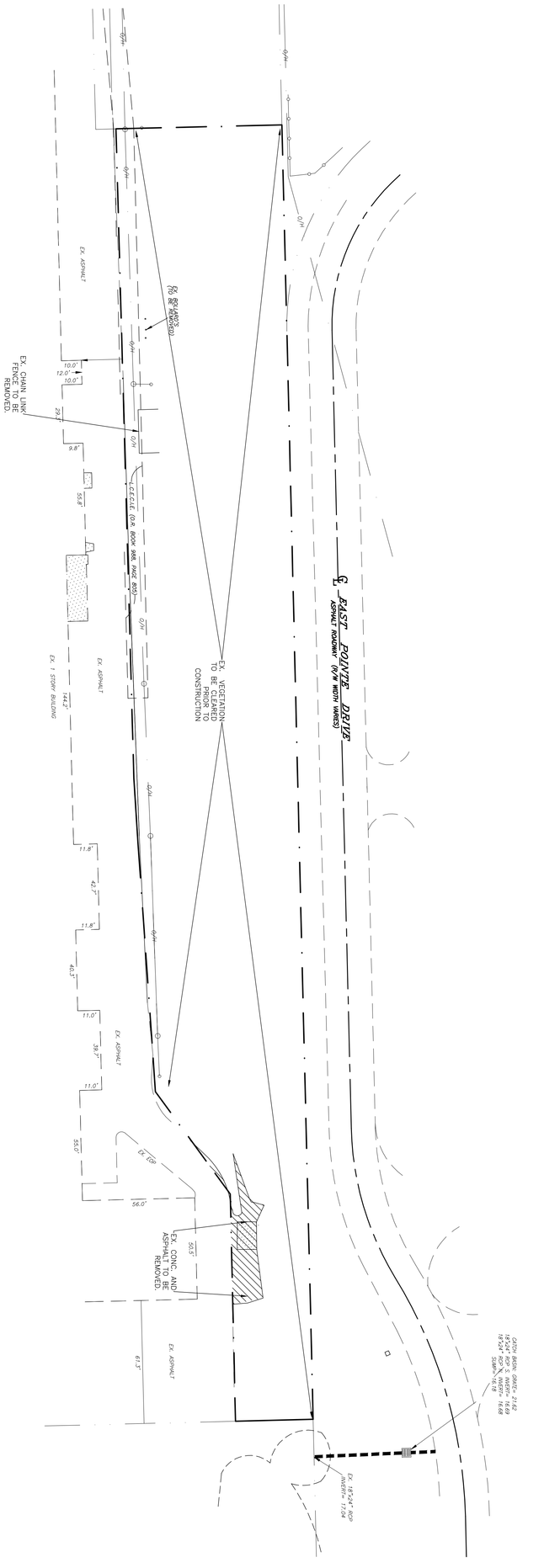
AERIAL LOCATION MAP

#	DATE	REVISIONS	DATE: 03/2026
			DESIGNED BY: RR
			DRAWN BY: RR
			CHECKED BY: TDM
			APPROVED BY: TDM

DRAWING NAME: JOBS\Ronak Patel\1390 Lee Boulevard-Lehigh\Drawings\Civil\TDM Site

STREET ADDRESS
1390 LEE BOULEVARD
LEHIGH ACRES, FL 33936

STRAP NUMBER
35-44-27-00-00001.0090



LEGEND

	CONCRETE/ASPHALT TO BE REMOVED
EX.	EXISTING
E.O.P.	EDGE OF PAVEMENT
CONC.	CONCRETE
R/W	RIGHT OF WAY
U.E.	UTILITY EASEMENT
R.C.P.	REINFORCED CONCRETE PIPE

1" = 30'

N — TDM

NOT VALID WITHOUT EMBOSSED SEAL, SIGNATURE, AND DATE.

SHEET # 4 of 11

SCALE: 1" = 30'

Dean Martin, P.E.
Florida #52022

DATE:

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CIVIL ENGINEERING
TDM CONSULTING, INC.
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Civil Engineering and Planning

dean@tdmconsulting.com
www.tdmcivilengineering.com

1390 LEE BOULEVARD

DEMOLITION PLAN

#	DATE	REVISIONS

DATE: 03/2026
DESIGNED BY: RR
DRAWN BY: RR
CHECKED BY: TDM
APPROVED BY: TDM

DRAWING NAME: JOBS\Ronak Patel\1390 Lee Boulevard-Lehigh\Drawings\Civil\TDM Site

STREET ADDRESS

1390 LEE BOULEVARD
LEHIGH ACRES, FL 33936

STRAP NUMBER

30-44-27-00-00001.0080

PROJECT INFORMATION

CURRENT ZONING	= CG (COMMERCIAL GENERAL)
FUTURE LAND USE	= CENTRAL URBAN
PROPOSED USE	= RENTAL FACILITY
EXIST. FLORIDA LAND USE CLASSIFICATIONS	= #1411 - SHOPPING CENTERS
EXIST. SOIL TYPES	= #6 - HALLANDALE FINE SAND
IRRIGATION SERVICE	= WELL
ARCHAEOLOGICAL SENSITIVITY LEVEL	= NONE

DEVELOPMENT SITE AREAS

TOTAL PARCEL AREA: (1.06 AC)	46,170 SF	100.0%
PROPOSED ASPHALT AREA:	21,430 SF	46.4%
PROPOSED CONCRETE AREA:	48 SF	0.1%
PROPOSED TOTAL IMPERVIOUS AREA:	21,478 SF	46.5%
PROPOSED DRY DETENTION AREA:	8,454 SF	18.3%
PROPOSED OPEN GREEN AREA:	16,238 SF	35.2%
PROPOSED TOTAL PERVIOUS AREA:	24,692 SF	53.5%

BUILDING SETBACK REQUIREMENTS

FRONT YARD = 20' (PRIVATE STREET)
SIDE YARD = 15'
REAR YARD = 25'

ZONING/ACTUAL USE

PROJECT SITE	= CG (VACANT)
NORTH	= CG (ROW/STORAGE FACILITY)
SOUTH	= CG (RETAIL)
EAST	= C-1A (GAS STATION)
WEST	= CG (VACANT)

LANDSCAPE BUFFER REQUIREMENTS

NORTH	= 25' WIDE BUFFER TO ROW (PER LDC34-1352)
SOUTH	= TYPE A, 5' WIDE BUFFER TO COM
EAST	= TYPE A, 5' WIDE BUFFER TO COM
WEST	= TYPE A, 5' WIDE BUFFER TO COM

LEETRAN NOTE

THE NEAREST LEETRAN STOP (BUS STOP #10975) IS LOCATED IN THE SOUTHEAST CORNER OF 1490 LEE BOULEVARD. PER LDC 10-442 THE EXISTING BUS STOP WILL BE EXPANDED TO BE AN 8' X 30' PAD WITH A BIKE RACK AND SAID EXPANSION IS PROPOSED IN LDO2025-00618 WHICH IS CURRENTLY UNDER REVIEW.

PROJECT DESCRIPTION

THE PROJECT PROPOSES THE DEVELOPMENT OF THIS VACANT PARCEL INTO A U-HAUL PARKING LOT FACILITY WITH ASSOCIATED PAVED PARKING LOT, LANDSCAPING, AND STORM WATER DETENTION.

1.- PARKING IS FOR THE TRUCKS FOR RENT.

2.- INDIVIDUALS PICKING UP A RENTAL TRUCK ARE GOING TO BE DROPPED OFF AT THE SITE. NO PROPOSED PARKING FOR PUBLIC USE.

3.- NOTE THAT THE PARKING FOR PUBLIC USE IS PROVIDED AT THE RENTAL OFFICE LOCATED IN THE EXISTING PLAZA @ 1432 LEE BLVD.

MAINTENANCE NOTE

BECAUSE THE OWNER/DEVELOPER ELECTED NOT TO INSTALL CURBS AND FLUMES AS DRAINAGE FEATURES TO FACILITATE PROPER DRAINAGE, THIS COULD LEAD TO PONDING IN PARKING LOT IF SOD IS ALLOWED TO GROW HIGHER THAN E.O.P. GRADES.

ENGINEER RECOMMENDS VIGILANT MAINTENANCE TO ENSURE THIS DOES NOT OCCUR.

TRIP GENERATION CALCULATIONS

PER ITE TRIP GENERATION, 11TH EDITION,
USE LUC 841 (PROPOSED SELF SERVICE U-HAUL RENTAL FACILITY)

RAW TRIP GENERATION TOTAL:
AVERAGE VEHICLE TRIP ENDS ON WEEKDAY = 46 (23 ENTERING, 23 EXITING)
AVERAGE VEHICLE TRIP ENDS - A.M. PEAK = 4 (3 ENTERING, 1 EXITING)
AVERAGE VEHICLE TRIP ENDS - P.M. PEAK = 6 (3 ENTERING, 3 EXITING)

OPEN SPACE REQUIREMENTS

PER SECTION 10-415 LEE COUNTY LAND DEVELOPMENT CODE.

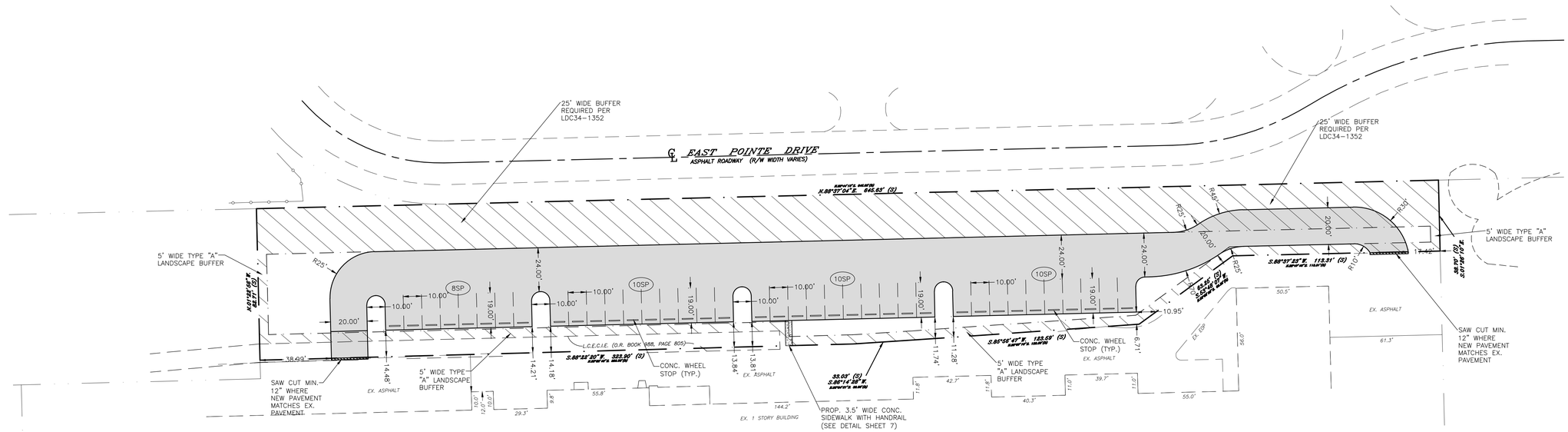
REQUIRED OPEN SPACE = 20% OF DEVELOPABLE PARCEL AREA
= 0.20 X 46,170 SF
= 9,234 SF REQUIRED

PROVIDED OPEN SPACE = PROPOSED OPEN GREEN AREA + PROPOSED DRY DETENTION AREA
= 16,238 SF + 8,454 SF
= 24,692 SF PROVIDED (53.5%)

LEGEND

R	RADIUS (5' UNLESS OTHERWISE NOTED)
EX.	EXISTING
R/W	RIGHT-OF-WAY
E.O.P.	EDGE OF PAVEMENT
CONC.	CONCRETE
TYP.	TYPICAL
PROP.	PROPOSED
SF	SQUARE FEET
LF	LINEAR FEET
P.U.E.	PUBLIC UTILITY EASEMENT
D.E.	DRAINAGE EASEMENT
LC	LEE COUNTY
L.P.	LIGHT POLE
10SP	NUMBER OF PARKING SPACES IN LOT
	PROPOSED PAVEMENT
	PROPOSED CONCRETE
LDC	LAND DEVELOPMENT CODE
N.T.S.	NOT TO SCALE

N
TDM
1" = 30'



NOTES

1. ALL EXISTING AND PROPOSED GRADES ARE N.A.V.D. OF 1988.
2. THIS PARCEL LIES IN FLOOD ZONE "X".
3. THIS PROJECT PRESENTS NO ADVERSE IMPACTS ON LOCAL GROUND OR SURFACE WATERS.
4. THIS PROJECT DOES NOT ADVERSELY IMPACT THE FLOOD PLAIN OR ANY RIVERINE AREAS.
5. THIS SITE CAN BE USED SAFELY FOR THE DEVELOPMENT AS SHOWN WITHOUT UNDUE DANGER FROM FLOOD OR ADVERSE SOIL AND/OR FOUNDATION CONDITIONS.
6. THIS SITE DOES NOT EXHIBIT ANY SALT WATER PONDING.
7. THE SITE WILL COMPLY WITH ALL APPLICABLE LEE PLAN STANDARDS AND PROVISIONS.

DATE: 03/2026	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
	RR	RR	TDM	TDM

	REVISIONS	DATE
1		

DRAWING NAME: JOBS\Tronak Patel\1390 Lee Boulevard-Lehigh\Drawings\Civil\DA\DA.dwg

1390 LEE BOULEVARD

SITE DIMENSION PLAN

Civil Engineering and Planning
dean@tdmconsulting.com
www.tdmcivilengineering.com

CIVIL ENGINEERING
TDM CONSULTING, INC.
1520 Royal Palm Square Blvd.
Suite 100
Fort Myers, FL 33919
Phone: (239) 433-4231
Cert. of Authorization # 29086

NOT VALID WITHOUT EMBOSSED SEAL, SIGNATURE, AND DATE.

DATE:

Dean Martin, P.E.
Florida #52022

This item has been digitally signed and sealed by Dean Martin on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SHEET # 5 of 11

SCALE: AS NOTED

STREET ADDRESS

1390 LEE BOULEVARD
LEHIGH ACRES, FL 33936

STRAP NUMBER

30-44-27-00-00001.0080

STORMWATER MANAGEMENT INFORMATION

PER DESIGN CALCULATIONS:
MIN. PARKING LOT ELEVATION = +21.49' (N.A.V.D.)
MIN. PERIMETER BERM ELEVATION = +22.2' (N.A.V.D.)
MIN. FINISHED FLOOR ELEVATION = +22.89' (N.A.V.D.)

PER CONSTRUCTION PLANS:
MIN. GRADE FOR PARKING LOT = +22.00' (N.A.V.D.)
MIN. GRADE FOR PERIMETER BERM = +22.2' (N.A.V.D.)
MIN. GRADE FOR FINISHED FLOOR = NO BUILDINGS PROPOSED

W.S.W.T. EL. = +15.8' N.A.V.D. (PER DOS2010-00037 AT 1360 LEE BOULEVARD)
THE CONVERSION FACTOR FROM NGVD TO NAVD IS "-1.17' ".

FLOOD ZONE

THE PARCEL IS LOCATED IN FLOOD ZONE "X"
THIS INFORMATION WAS TAKEN FROM THE BOUNDARY SURVEY
PROVIDED BY HARRIS-JORGENSEN, INC. DATED 03-11-26

STORMWATER CALCULATIONS

TOTAL DETENTION REQUIRED:
= 1" X TOTAL DEVELOPABLE AREA* X 1'/12"
= 1" X 46,170 SF X 1'/12"
= 3,848 CF

OR 2.5" X (TOTAL DEVELOPABLE AREA - TOTAL IMPERVIOUS AREA)/
(TOTAL DEVELOPABLE AREA) X TOTAL DEVELOPABLE AREA X 1'/12"
= 2.5" X (46,170 SF - 21,430 SF)/(46,170 SF)
X 46,170 SF X 1'/12" = 5,154 CF
= 5,154 SF X 0.75 (DRY DETENTION) = 3,866 CF

TOTAL DETENTION PROVIDED:
= VOLUME IN DDA #1 + DDA #2
= 6,212 CF + 416 CF
= 6,628 CF

* TOTAL PARCEL AREA LESS LCEC EASEMENT AREA

DRAINAGE STRUCTURE SCHEDULE

INLET NUMBER	INLET TYPE	GRATE ELEVATION	INVERT ELEVATIONS
D-1	C (MOD.)	CONTROL STRUCTURE (SEE DETAIL, SHEET 7)	

DRAINAGE PIPE SCHEDULE

PIPE NUMBER	DESCRIPTION
P-1	70 LF 15" RCP SWIE = +19.7, NEIE = +17.7'
P-2	100 LF 15" R.C.P. W/(2) 8' M.E.S. (110 LF TOTAL) WIE = +20.0' (W/0.7' SUMP), EIE = +20.0' (W/0.7' SUMP)

MAINTENANCE NOTE

BECAUSE THE OWNER/DEVELOPER ELECTED NOT TO INSTALL CURBS AND FLUMES AS DRAINAGE FEATURES TO FACILITATE PROPER DRAINAGE, THIS COULD LEAD TO PONDING IN PARKING LOT IF SOD IS ALLOWED TO GROW HIGHER THAN E.O.P. GRADES.

ENGINEER RECOMMENDS VIGILANT MAINTENANCE TO ENSURE THIS DOES NOT OCCUR.

PIPE CONNECTIONS TO EXISTING STRUCTURES NOTES

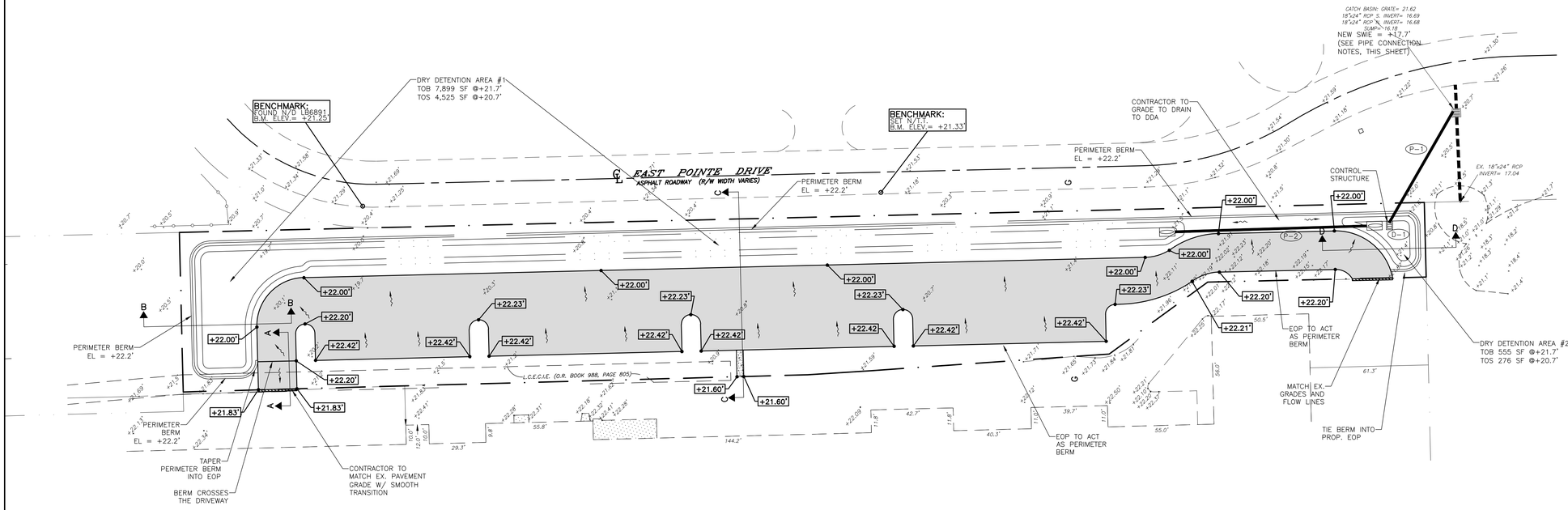
1. THE HOLE INTO THE EXISTING STRUCTURE MUST BE SAW CUT OR CORE DRILLED.
2. USE NON-SHRINK GROUT TO FILL ALL GAPS AROUND THE JOINT.
3. AFTER PIPE IS CONNECTED WITH THE INLET, THE END OF THE PIPE MUST BE CUT FLUSH WITH THE INSIDE.
4. REFER TO FDOT INDEX 201 FOR FILTER FABRIC WRAP ON GROUTED PIPE TO STRUCTURE JOINT DETAIL.
5. ENSURE SOIL IS CLEANED FROM EXISTING STRUCTURE WALL PRIOR TO APPLYING BITUMINOUS COATING FOR THE FILTER FABRIC WRAP AROUND THE JOINT.
6. REFER TO FDOT STANDARD SPECIFICATION 430-4.1 FOR ADDITIONAL PIPE CONNECTION REQUIREMENTS.

LEGEND

+24.39'	PROPOSED GRADE - SPOT (SPOT SHOWN IS PAVEMENT GRADE)
+21.30	EXISTING GRADE - SPOT
	PROPOSED STORMWATER CATCH BASIN
	PROPOSED PAVEMENT
	PROPOSED CONCRETE
M.E.S.	PROPOSED MITERED-END SECTION
R.C.P.	NEW REINFORCED CONCRETE PIPE
P-1	DRAINAGE PIPE NUMBER
D-1	DRAINAGE INLET NUMBER
	INTENDED DIRECTION OF STORMWATER FLOW
	EXISTING CATCH BASIN
	EXISTING REINFORCED CONCRETE PIPE
R/W, ROW	RIGHT OF WAY
P.U.E.	PUBLIC UTILITY EASEMENT
D.E.	DRAINAGE EASEMENT
(TYP.)	TYPICAL
EX.	EXISTING
SF	SQUARE FOOT
LF	LINEAR FOOT
CF	CUBIC FOOT
I.E.	INVERT ELEVATION
EL. OR ELEV.	ELEVATION
N.A.V.D.	NORTH AMERICAN VERTICAL DATUM
WPP	WOOD POWER POLE
T.O.B.	TOP OF BANK
T.O.S.	TOE OF SLOPE
CONC.	CONCRETE
EOP	EDGE OF PAVEMENT
D.D.A.	DRY DETENTION AREA

TDM N

1" = 30'



DATE:	03/2026
DESIGNED BY:	RR
DRAWN BY:	RR
CHECKED BY:	TDM
APPROVED BY:	TDM
REVISIONS	
DATE	
DRAWING NAME:	2026\Florida\ Parcel\1390 Lee Boulevard-Lehigh\ Drawings\Construction Site

1390 LEE BOULEVARD
PAVING, GRADING, AND DRAINAGE PLAN

Civil Engineering and Planning

CIVIL ENGINEERING
TDM CONSULTING, INC.
1520 Royal Palm Square Blvd.
Suite 100
Fort Myers, FL 33919
Phone: (239) 433-4231
Cert. of Authorization # 29086

dean@tdmconsulting.com
www.tdmcivilengineering.com

NOT VALID WITHOUT EMBOSSED SEAL, SIGNATURE, AND DATE

Dean Martin, P.E.
Florida #52022

DATE:

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SHEET # 6 of 11

SCALE: 1" = 30'

STREET ADDRESS

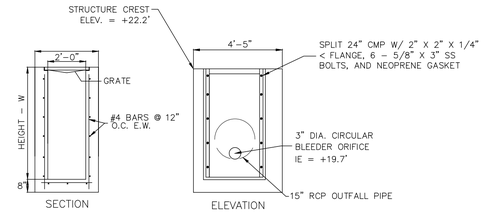
1390 LEE BOULEVARD
LEHIGH ACRES, FL 33936

STRAP NUMBER

30-44-27-00-00001.0080

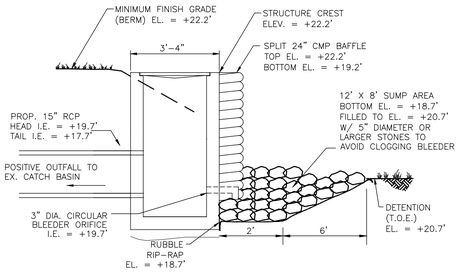
GENERAL NOTES

1. ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO N.A.V.D. OF 1988. ALL BOUNDARY, EXISTING CONDITIONS, AND TOPOGRAPHIC INFORMATION AS SHOWN WAS TAKEN FROM A SYSTEM FILE PROVIDED BY HARRIS-JORGENSEN, INC. MARKS ARE AS SHOWN ON BOUNDARY & TOPOGRAPHIC SURVEY.
2. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH LEE COUNTY LAND DEVELOPMENT STANDARDS.
3. CONTRACTOR SHALL CONTACT ALL APPROPRIATE AGENCIES, UTILITIES, AND PROJECT ENGINEER A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL CONTACT PROJECT ENGINEER PRIOR TO THE INITIATION OF ANY DEVIATION FROM THE APPROVED PLANS. NO SUCH DEVIATIONS SHALL BE AUTHORIZED WITHOUT PRIOR WRITTEN APPROVAL BY PROJECT ENGINEER.
5. UTILITY AND FACILITY LOCATIONS, IF SHOWN HEREON, ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL REMOVE ANY HARDPAN EXISTING BENEATH THE PROPOSED STORMWATER FACILITIES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ANY AND ALL DEBRIS REMOVED FROM THE SITE.
8. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
9. VERTICAL SAW CUTS THROUGH EXISTING LIMEROCK ARE REQUIRED WHERE NEW PAVEMENT MATCHES TO EXISTING PAVEMENT.
10. CONTRACTOR SHALL SUPPLY SATISFACTORY DENSITY TESTS (2 EACH) OF SUB-BASE AND LIMEROCK AREAS TO PROJECT ENGINEER PRIOR TO PAYMENT AND/OR FINAL ACCEPTANCE.
11. IF A REQUIRED DIMENSION IS NOT SHOWN OR A DISCREPANCY IS FOUND ON THE DRAWINGS, CONTRACTOR TO CONTACT PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
12. REINFORCED CONCRETE PIPE (RCP) CULVERTS SHALL CONFORM TO CLASS III (ASTM C76) FOR ROUND PIPE AND ALSO CONFORM TO TABLE I FOR CLASS HE-111 (ASTM C507) FOR ELLIPTICAL PIPE.
13. ALL PARKING LOT EMBANKMENT SHALL BE CONSTRUCTED IN ONE (1) FOOT LIFTS TO A MINIMUM COMPACTION OF 95% AASHTO T-180. REFER TO ARCHITECT FOR BUILDING FOUNDATION REQUIREMENTS.
14. CONTRACTOR SHALL MAINTAIN A CURRENT AND UPDATED SET OF ASBUILT DRAWINGS AT ALL TIMES AND PROVIDE ONE (1) COPY TO PROJECT ENGINEER UPON COMPLETION OF CONSTRUCTION.
15. THIS PLAN IS FOR PERMITTING ONLY AND SHALL NOT BE UTILIZED FOR CONSTRUCTION UNLESS AUTHORIZED BY ENGINEER OF RECORD.
16. ALL MITERED-END SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX 272. LOCATIONS SHALL BE AS SHOWN AND DIMENSIONED.
17. CONTRACTOR SHALL COORDINATE ANY AND ALL WORK IN THE RIGHT- OF-WAY WITH LEE COUNTY DEPARTMENT OF TRANSPORTATION.
18. MAINTENANCE OF TRAFFIC SHALL FOLLOW F.D.O.T. STANDARD INDEX 600, INCLUDING FLAGGING.
19. BLASTING FOR UTILITY CONSTRUCTION IS NOT ANTICIPATED AND, IF REQUIRED, WILL NOT BE PERMITTED UNLESS WRITTEN APPROVAL IS OBTAINED FROM PROJECT ENGINEER.
20. LIMEROCK BASE MATERIAL SHALL BE FROM AN F.D.O.T. APPROVED SOURCE.
21. ASPHALT PAVEMENT MATERIAL SHALL BE PRODUCED BY AN F.D.O.T. CERTIFIED SOURCE AND TESTED PER F.D.O.T. SPECIFICATIONS.
22. ALL EXISTING MONUMENTATION SHALL BE PROTECTED. IF MONUMENTATION IS DISTURBED OR DESTROYED, IT SHALL BE REPLACED AFTER CONSTRUCTION IS COMPLETE, TO REQUIRED ACCURACY, BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER (P.S.M.) AT CONTRACTOR'S EXPENSE. IF MONUMENTATION IS IN DANGER OF BEING DISTURBED OR DESTROYED, IT SHALL BE REFERENCED AND REPLACED AFTER CONSTRUCTION IS COMPLETE, BY A FLORIDA LICENSED P.S.M., AT CONTRACTOR'S EXPENSE.
23. DURING CONSTRUCTION, IF ANY FORTUITOUS (HISTORICAL OR ARCHAEOLOGICAL) FINDS ARE OBSERVED, ALL WORK SHALL CEASE IN THE AREA. DEVELOPER, OWNER, CONTRACTOR, OR AGENT THEREOF MUST NOTIFY LEE COUNTY DIVISION OF NATURAL RESOURCES IMMEDIATELY IF HISTORIC OR PREHISTORIC ARTIFACTS, REMAINS, OR FEATURES ARE FOUND DURING CONSTRUCTION. EXAMPLES MAY INCLUDE FRAGMENTS OF STONE TOOLS, SHELLS, SHELL TOOLS, POTTERY, GLASS, BOTTLES, ANIMAL BONES, BUILDING FOUNDATIONS, SHELL MOUNDS, OR SAND MOUNDS. LEE COUNTY DIVISION OF NATURAL RESOURCES WILL ASSESS THE SIGNIFICANCE OF THE FINDS IN A TIMELY MANNER.
24. IF ANY HUMAN SKELETAL REMAINS (UNMARKED BURIALS) ARE FOUND, ALL WORK IN THE AREA MUST STOP AND THE NEAREST LAW ENFORCEMENT OFFICE SHOULD BE CONTACTED IMMEDIATELY. ACCORDING TO STATE LAW (F.S. 872.05), IT IS UNLAWFUL TO DAMAGE OR DESTROY A HUMAN BURIAL. LEE COUNTY DIVISION OF NATURAL RESOURCES MUST ALSO BE NOTIFIED.
25. NO DEWATERING IS ANTICIPATED DURING CONSTRUCTION OF THIS PROJECT, THEREFORE; DEWATERING MAY NOT BE CONDUCTED WITHIN THE PROPOSED PROJECT. SHOULD THE CONTRACTOR DISCOVER A NEED FOR DEWATERING, ALL REQUIRED PERMITS MUST BE IN-HAND PRIOR TO COMMENCEMENT OF DEWATERING.
26. CONTACT JESSICA MCPHERSON (JMCPHERSON@LEEGOV.COM, 239-839-3168) FOR AN ON-SITE PRECONSTRUCTION MEETING WITH THE CONTRACTOR.



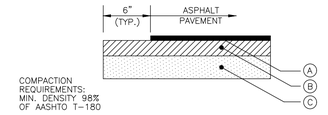
FDOT TYPE "C" INLET

MODIFIED FDOT TYPE "C" INLET



CONTROL STRUCTURE SECTION

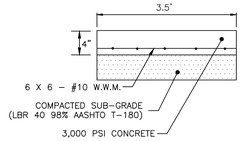
CONTROL STRUCTURE DETAIL
N.T.S. FDOT INDEX 232



TYPICAL ON-SITE PAVEMENT

(A) 1 1/2" TYPE III ASPHALT *
(B) 6" LIMEROCK BASE LBR 100 (MIN.)
(C) 6" STABILIZED SUBGRADE LBR 40
* IN TWO (2) SEPARATE 3/4" LIFTS

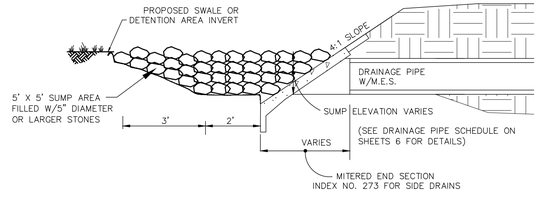
PROPOSED ASPHALT PAVEMENT CROSS-SECTION
N.T.S.



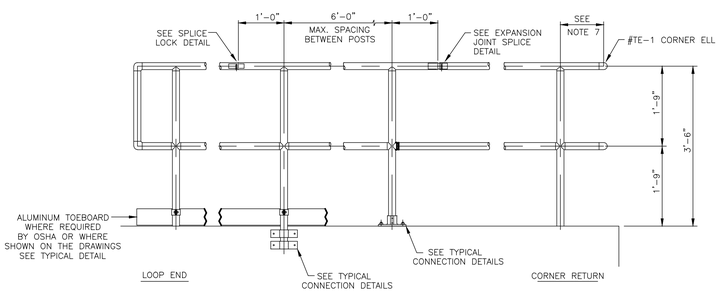
1. SIDEWALK TO BE 0.5' ABOVE ADJACENT PAVEMENT GRADE UNLESS OTHERWISE NOTED.

ON-SITE CONCRETE SIDEWALK DETAIL
N.T.S.

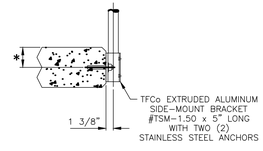
STOP SIGN DETAIL
N.T.S.



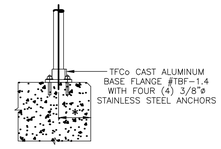
TYPICAL SUMP W/RUBBLE RIP-RAP DETAIL
FOR SWALE OR DETENTION AREA
N.T.S.



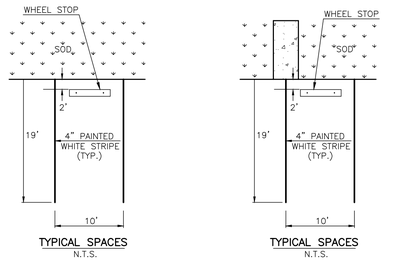
OSHA GUARDRAIL DETAIL
N.T.S.



TYPICAL SIDE MOUNT CONNECTION
TO CONCRETE SLAB



TYPICAL TOP MOUNT CONNECTION
TO CONCRETE WALL

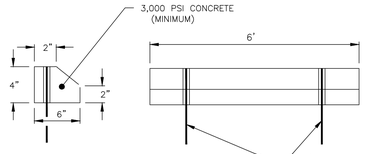


TYPICAL SPACES
N.T.S.

TYPICAL SPACES
N.T.S.

NOTE: ALL STRIPING TO BE TWO COATS HEAVY DUTY ACRYLIC BASED TRAFFIC PAINT.

TYPICAL PARKING SPACE DETAILS
N.T.S.



WHEEL STOP DETAIL
N.T.S.

DATE: 04/2024	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
	RR	RR	TDM	TDM

REVISIONS	DATE

DRAWING NAME: JOBS\Ronak Patel\1390 Lee Boulevard-Lehigh\Design\Cover\04-2024.dwg

1390 LEE BOULEVARD

PAVING, GRADING, AND DRAINAGE DETAILS

Civil Engineering and Planning

CIVIL ENGINEERING
TDM CONSULTING, INC.

1520 Royal Palm Square Blvd.
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Fort Myers, FL 33919
Phone: (239) 433-4231
Cert. of Authorization # 29086

dean@tdmconsulting.com
www.tdmcivilengineering.com

NOT VALID WITHOUT EMBOSSED SEAL, SIGNATURE, AND DATE

Dean Martin, P.E.
Florida #52022

DATE:

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SHEET # 7 of 11

SCALE: N.T.S.

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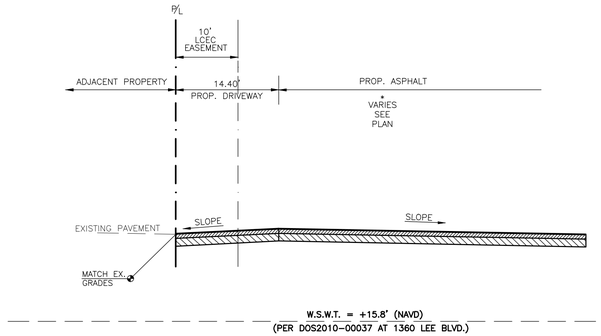
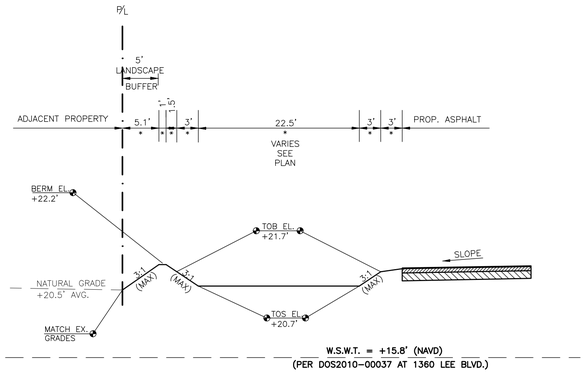


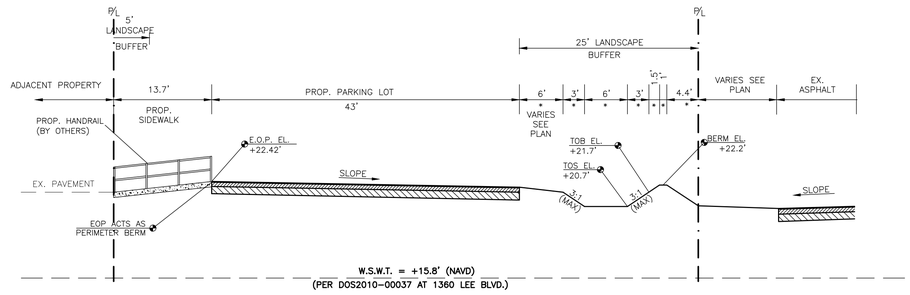
* = SOD OR LANDSCAPE MATERIAL

CROSS-SECTION A-A
N.T.S.



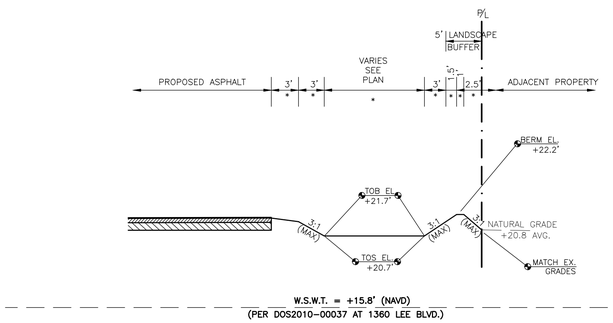
* = SOD OR LANDSCAPE MATERIAL

CROSS-SECTION B-B
N.T.S.



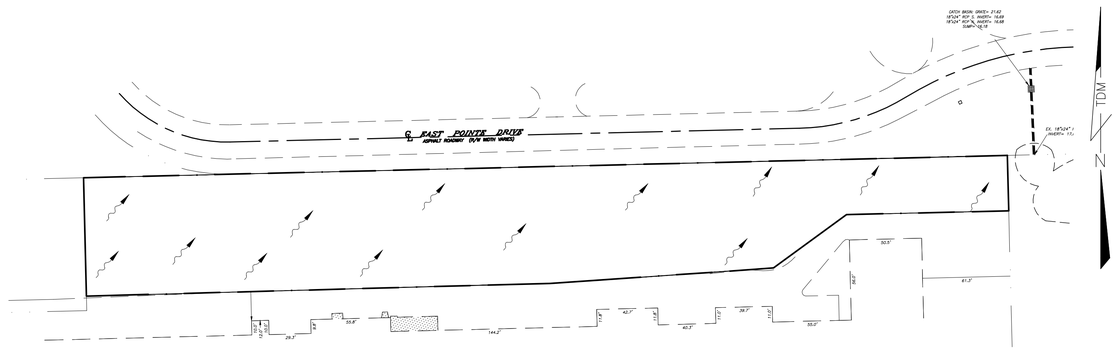
* = SOD OR LANDSCAPE MATERIAL

CROSS-SECTION C-C
N.T.S.



* = SOD OR LANDSCAPE MATERIAL

CROSS-SECTION D-D
N.T.S.



EXISTING HYDROLOGY MAP
1" = 40'

DATE: 03/2026	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
	RR	RR	TDM	TDM

REVISIONS

DATE	
1	

DRAWING NAME: J:\DBS\Ronak Patel\1390 Lee Boulevard Lehigh\Drawings\Cad\1390 Site

1390 LEE BOULEVARD

CROSS SECTIONS AND EXISTING HYDROLOGY MAP

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TDM CONSULTING, INC.
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Dean Martin, P.E.
Florida #52022

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SHEET # 8 of 11

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STRAP NUMBER
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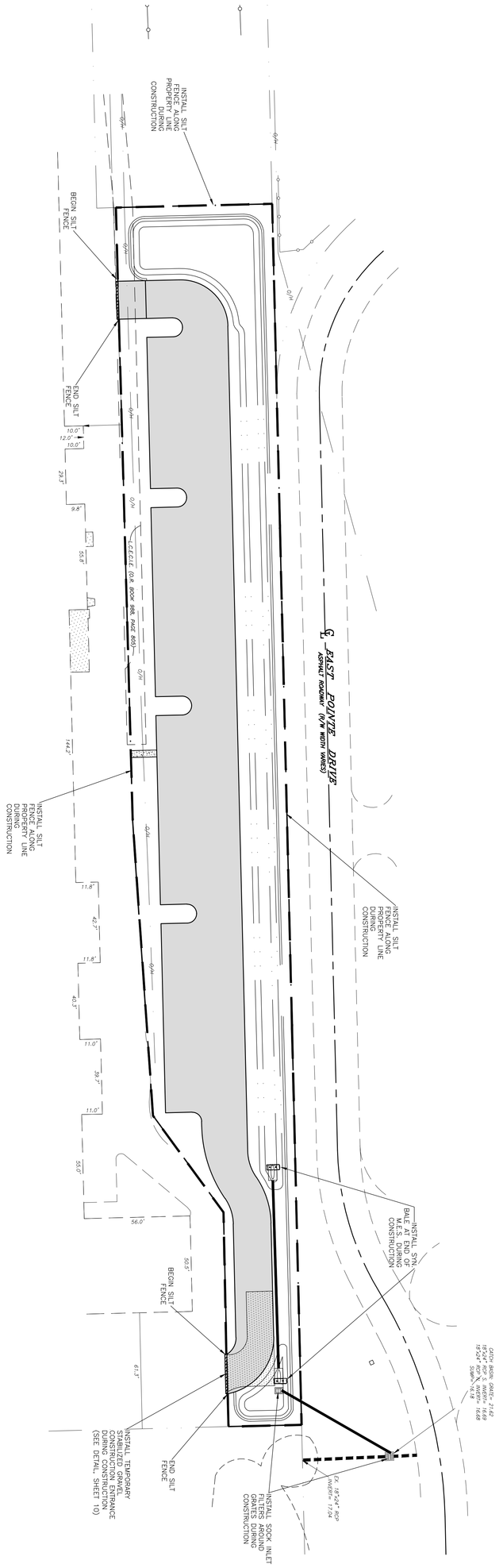

LEGEND

MITERED END SECTION	
SILT FENCE	SF
PROPOSED CONCRETE	
PROPOSED PAVEMENT	
LINEAR FEET	LF
EXISTING ELEVATION	EX. EL.
SYNTHETIC	SYN.
RIGHT OF WAY	ROW

1" = 30'

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SHEET # 9 of 11

SCALE: 1" = 30'

Dean Martin, P.E.
Florida #52022
DATE:

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1390 LEE BOULEVARD

STORMWATER POLLUTION PREVENTION PLAN

#	DATE	REVISIONS

DATE: 03/2026
DESIGNED BY: RR
DRAWN BY: RR
CHECKED BY: TDM
APPROVED BY: TDM

DRAWING NAME: JOBS\Ronak Patel\1390 Lee Boulevard-Lehigh\Drawings\Civil\TDM Site

STREET ADDRESS

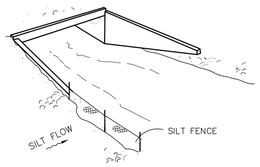
1390 LEE BOULEVARD
LEHIGH ACRES, FL 33936

STRAP NUMBER

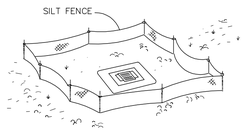
30-44-27-00-00001.0080

CONSTRUCTION POLLUTION PREVENTION PLAN

1. SILT FENCE SHALL BE PROPERLY INSTALLED AT THE PERIMETER OF THE LIMITS OF DISTURBANCE PRIOR TO CONSTRUCTION.
2. SYNTHETIC BALE (OR BALE TYPE BARRIER) AND SILT FENCE CHECK DAM BARRIERS SHALL BE INSTALLED IN ALL PROPOSED SWALES AT 200' INTERVALS AFTER SWALE CONSTRUCTION AND SHALL BE MAINTAINED UNTIL FINAL STABILIZATION.
3. CLEARING AND GRUBBING DEBRIS SHALL BE REMOVED AND PROPERLY DISPOSED OF BY CONTRACTOR.
4. TOPSOIL STOCK PILES AND OTHER DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY CEASES FOR MORE THAN SEVEN (7) DAYS WILL BE STABILIZED WITH TEMPORARY SEEDING AND MULCH WITHIN SEVEN (7) DAYS FROM THE DATE OF LAST CONSTRUCTION ACTIVITY IN THAT AREA.
5. PROPOSED SWALES ARE TO BE SODDED OR SEEDED IMMEDIATELY AFTER CONSTRUCTION PER THE APPROPRIATE CROSS-SECTION.
6. ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN A LIDDED METAL CONTAINER IN ACCORDANCE WITH LEE COUNTY SOLID WASTE STANDARDS. SAID DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE A WEEK OR MORE OFTEN IF NECESSARY.
7. ALL HAZARDOUS OR TOXIC MATERIAL WILL BE PROPERLY CONTAINED AND DISPOSED OF IN ACCORDANCE WITH APPROPRIATE STATE AND FEDERAL REGULATIONS.
8. THIS SITE IS TO BE SERVED BY PORTABLE SANITARY FACILITIES DURING CONSTRUCTION. POST CONSTRUCTION WILL BE SERVED BY CONNECTION TO MUNICIPAL FACILITIES.
9. THE EFFECTIVENESS OF THE STORMWATER POLLUTION PREVENTION PLAN AND THE TEMPORARY EROSION/SEDIMENT CONTROLS SHALL BE CHECKED DAILY DURING CONSTRUCTION BY CONTRACTOR OR A DESIGNATED REPRESENTATIVE. IF STATE OF FLORIDA WATER QUALITY STANDARDS ARE NOT MET, CORRECTION TO THE PROBLEMS SHALL BE MADE AS SOON AS PRACTICAL.
10. SILT FENCING WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO INSURE PROPER ATTACHMENT TO POSTS, AND TO ENSURE POSTS ARE SECURELY PLACED.
11. ALL POLLUTION PREVENTION CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. REPAIRS WILL BE INITIATED IMMEDIATELY, BUT NOT LONGER THAN TWENTY-FOUR (24) HOURS AFTER DISCOVERY.
12. BUILT-UP SEDIMENT WILL BE REMOVED FROM SILT FENCING WHEN IT REACHES ONE-THIRD (1/3) OF THE HEIGHT OF THE FENCE.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAZARDOUS MATERIAL SPILLS OR POLLUTANTS ON SITE. SAID SPILLS SHALL BE CLEANED UP AS SOON AS THEY OCCUR.
14. STORMWATER POLLUTION PREVENTION SHALL BE IMPLEMENTED DURING CONSTRUCTION. IF ADDITIONAL TEMPORARY EROSION/SEDIMENT CONTROLS (NOT SHOWN ON THE CONSTRUCTION PLANS) ARE NECESSARY TO MAINTAIN COMPLIANCE WITH STATE OF FLORIDA WATER QUALITY STANDARDS, SUCH CONTROLS SHALL BE DESIGNED, SPECIFIED, LOCATED, AND INSTALLED AS REQUIRED BY ENGINEER/CONTRACTOR OR A DESIGNATED REPRESENTATIVE. ALL TEMPORARY CONTROLS SHALL PREVENT SEDIMENT AND OTHER DELETERIOUS SUBSTANCES FROM ENTERING UTILITY AND STORMWATER DRAIN ENTRANCES, DRAINAGE DITCHES, WATERBODIES, WETLANDS, AND ADJACENT PROPERTY.
15. CONTRACTOR OR HIS AGENT WILL INFORM ALL SUBCONTRACTORS OF THE CONSTRUCTION POLLUTION PREVENTION PLAN AS SHOWN ON THIS SHEET AND VERIFY THAT ALL CONCERNED PARTIES ARE COMPLYING WITH THEM.
16. ALL CONSTRUCTION ENTRANCES SHOULD BE CLEAR OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. A GEOTEXTILE SHOULD BE LAID DOWN TO IMPROVE STABILITY AND SIMPLIFY MAINTENANCE. GRAVEL SHALL THEN BE PLACED OVER THE GEOTEXTILE A MINIMUM OF 12" THICK.
17. ALL BARE AREAS WILL BE SODDED AS SOON AS PRACTICAL. HOWEVER, UNTIL PLACING OF SOD, THESE AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST.



TYPE III SILT FENCE



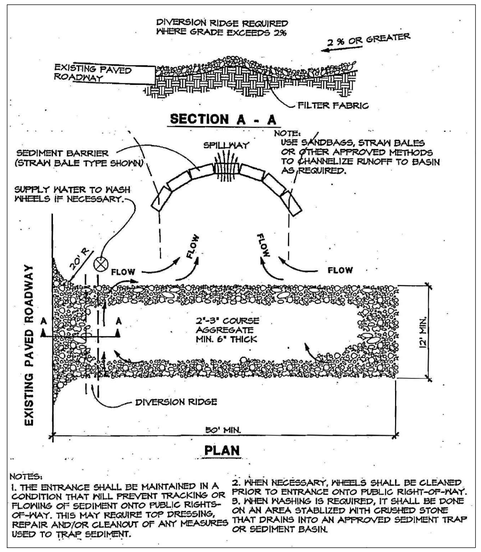
SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS

SILT FENCE PROTECTION IN
DITCHES W/ INTERMITTENT FLOW

NOTE:
DO NOT DEPLOY IN SUCH A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS. TURBIDITY BARRIERS ARE TO BE USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

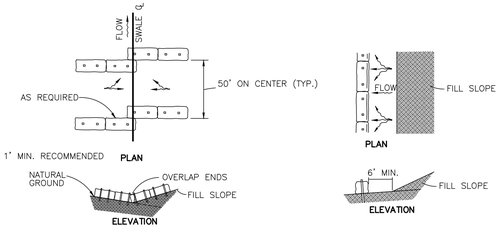
N.T.S.



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY STABILIZED GRAVEL CONSTRUCTION ENTRANCE DETAIL

N.T.S.



TO BE USED WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

TO BE USED WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

AT TOE OF SLOPE
BARRIERS FOR FILL SLOPES

N.T.S

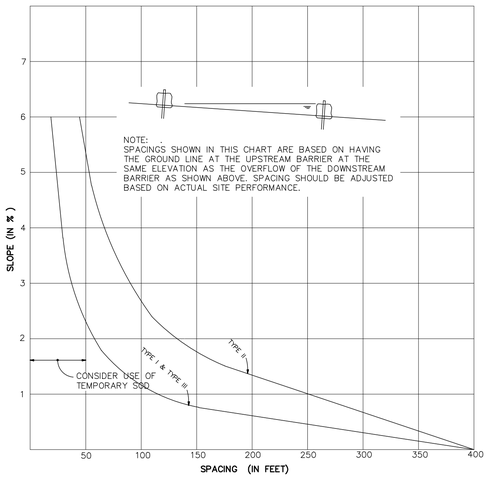
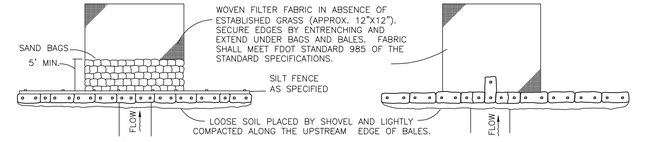


CHART 1

RECOMMENDED SPACING FOR SYNTHETIC BALES OR BALE TYPE BARRIERS AND TYPE III SILT FENCES.

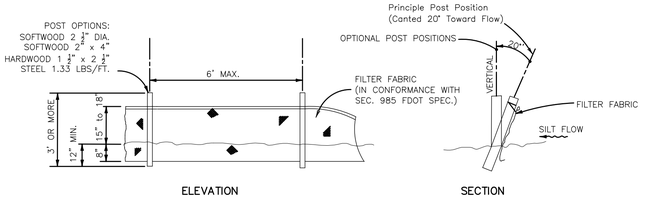


TYPE II TYPE I

NOTES:
1. TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE CHART I, SHEET 1 OF 3, F.D.O.T. STANDARD INDEX NO. 102.
2. RAILS AND POSTS SHALL BE 2" X 4" WOOD. OTHER MATERIALS PROVIDING EQUIVILANT STRENGTH MAY BE USED IF APPROVED BY ENGINEER.
3. WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.

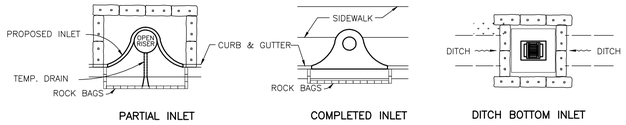
SYNTHETIC BALE OR BALE TYPE BARRIERS FOR UNPAVED DITCHES

N.T.S



TYPE III SILT FENCE

N.T.S.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

N.T.S

DATE: 03/2026	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
	RR	RR	TDM	TDM

	DATE	REVISIONS
1		

DRAWING NAME: P:\0BS\Florida\ Plans\1390 Lee Boulevard-Lehigh\ Drawings\Construction Site

1390 LEE BOULEVARD
STORMWATER POLLUTION PREVENTION DETAILS

Civil Engineering and Planning

TDM CONSULTING, INC. — CIVIL ENGINEERING

1520 Royal Palm Square Blvd.
Suite 100
Fort Myers, FL 33919
Phone: (239) 433-4231
Cert. of Authorization # 29086

dean@tdmconsulting.com
www.tdmcivilengineering.com

NOT VALID WITHOUT EMBOSSED SEAL, SIGNATURE, AND DATE.

Dean Martin, P.E.
Florida #52022
DATE:

This item has been digitally signed and sealed by Dean Martin on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SHEET # 10 of 11

SCALE: N.T.S.

CIVIL ENGINEERING
TDM
CONSULTING, INC.

1520 Royal Palm Square Blvd, Suite 100
Fort Myers, FL 33919
Phone 239-433-4231
www.tdmcivilengineering.com
Certificate of Authorization # 29086

Thomas D. Martin
Digitally signed by Thomas D. Martin
Date: 2026.04.15 10:02:38 -04'00'

Thomas Dean Martin, State of Florida, Professional Engineer, License No. 52022. This item has been digitally signed and sealed by Thomas Dean Martin on the date indicated here. Signature must be verified on any electronic copies.

1390 Lee Boulevard
Storm Water and Area Calculations

Site Area Summary

	Total Parcel Area	= 1.060 Acres
	Less LCEC Easement Area	= 0.054 Acres
Impervious:	Proposed Building (Roof) Area	= 0 Acres
	Proposed Pavement Area	= 0.492 Acres
	Proposed Concrete Area	= 0.001 Acres
Pervious:	Proposed Dry Detention Area (at T.O.B.)	= 0.194 Acres
	Proposed Open Green Area	= 0.319 Acres
	Proposed Drainage Basin Area	= 1.006 Acres

Post-Development Time of Concentration

All impervious surfaces are directly connected to the master storm water management system; therefore, Tc = 10 Minutes (0.1667 Hours) minimum.

Rainfall Intensities (per SFWMD Rainfall Maps)

10-Year, 24-hour = 6.5”
25-Year, 72-hour = 11.0”
100-Year, 72-hour = 14.0”

Soil Storage Calculations

Average Developed Grade of Pervious Surfaces = +21.9’ N.A.V.D.

W.S.W.T. Elevation = +15.8’ N.A.V.D. (per DOS2010-00037 at 1360 Lee Boulevard)

Depth to Water Table = 6.1’ (use 4.0’ maximum)

Soil Storage, S = 10.9” x 0.75 (compaction) = 8.175” (assuming coastal soils)

% Pervious = 50.99

S = 8.175” x 0.5099 = 4.169”

CN = 1,000/(S + 10)

CN = 1,000/(4.169 + 10) = 70.578

Allowable Discharge Rate

The project is limited to 30 CSM by the Lehigh Acres Municipal Services Improvement District.

Qn (25-Year, 72-hour) = 30 CSM = 0.047 CFS/Acre x 1.006 Acres = 0.047 CFS

Tail Water History

The water elevation in the receiving body, the master storm water management system for this section of Lehigh Acres as owned and operated by LAMSID, is assumed to be at +15.8' N.A.V.D. (the W.S.W.T. elevation) at time, T = 0 hours; at +18.19' N.A.V.D. (the existing top of pipe elevation in the tie-in catch basin) at time, T = 24 hours; at +21.24' N.A.V.D. (the average EOP grade near the tie-in catch basin) at time, T = 60 hours; and at +15.8' N.A.V.D. at time, T = 360 hours.

Project Detention Requirements

Detain Runoff from the First 1" of Rainfall:

Qn = 1" x 1.006 Acres x 1'/12" = 0.084 Acre-Feet

Or

Detain Runoff from 2.5" x Percent Imperviousness:

Qn = 2.5" x (1.006 Acres – 0 Acres – 0.513 Acres)/(1.006 Acres - 0 Acres) x 1.006 Acres x 1'/12" = 0.103 Acre-Feet

Required Water Quality Volume

Qn = 0.103 Acre-Feet x 0.75 (Dry Detention) = 0.077 Acre-Feet

Water Quality Calculations

Detention Storage Provided:

Stage (Ft., N.A.V.D.)	Dry Detention (AF)	Site Detention (AF)	Total Detention (AF)
15.8	0.00	0.00	0.00 (W.S.W.T. El.)
19.7	0.00	0.00	0.00 (Control El.)
20.7	0.00	0.00	0.00 (Dry T.O.S. El.)
21.2	0.066	0.00	0.066
21.7	0.152	0.00	0.152 (Dry T.O.B. El.)
22.0	0.211	0.028	0.239
22.5	0.308	0.200	0.508
23.0	0.405	0.528	0.933 (Min. F.F. El.)

The on-site water quality volume required is 0.077 acre-feet. Store 0.077 acre-feet at stage +21.264' N.A.V.D. Set the theoretical control structure weir at +21.3' N.A.V.D. to provide the required water quality volume.

Bleeder Calculation

Size bleeder to discharge one-half (1/2) inch within twenty-four (24) hours.

½"/24 hr. x 1.006 Acres x 1'/12" x 1 hr./60 min. x 1 min./60 sec. x 43,560 SF/acre = 0.021 CFS

The volume through a circular orifice is calculated using the formula $Q = 4.8\ AH^{1/2}$, where A = the area of the orifice and H = the head above the centroid of the orifice.

With the bleeder invert set at the control elevation (+19.7' N.A.V.D.) and the theoretical water quality weir set at +21.3' N.A.V.D., from trial and error, the bleeder will be a 3" circular orifice (the smallest allowable).

$Q = 4.8\ AH^{1/2} = 4.8 \times 0.049 \times (1.475)^{1/2} = 0.286$ CFS

Weir Calculation

From trial and error, the 3" circular orifice bleeder at the control elevation (+19.7' N.A.V.D.) will be the only discharge control.

Results

Three (3) separate storm events were routed. A summary of the results of these routings is as follows:

1. **The 10-year, 24-hour storm event yields a peak discharge of 0.30 CFS and a peak stage of +21.49' N.A.V.D. This elevation is the minimum design grade for the parking lot and roadway.**
2. **The 25-year, 72-hour storm event (extended to a 96-hour duration) yields a peak discharge of 0.24 CFS (which is 0.193 CFS more than the allowable discharge rate even though the smallest allowable circular orifice bleeder is proposed as the only discharge control) and a peak stage of +22.20' N.A.V.D., rounded to +22.2' N.A.V.D. This elevation is the minimum design grade for the perimeter berms and the grate elevation for the discharge control structure.**
3. **The 100-year, 72-hour storm event (extended to a 96-hour duration) without discharge yields a peak stage of +22.89' N.A.V.D. This elevation is the minimum design grade for finish floors. Note that there are no buildings currently proposed.**

Project Name: 1390 Lee Boulevard
Reviewer: TDM, 4-8-26
Project Number:
Period Begin: Jan 01, 2000;0000 hr End: Jan 02, 2000;0000 hr Duration: 24 hr
Time Step: 0.2 hr, Iterations: 10

Basin 1: On-site

Method: Santa Barbara Unit Hydrograph
Rainfall Distribution: SFWMD - 24 hr
Design Frequency: 10 year
1 Day Rainfall: 6.5 inches
Area: 1.006 acres
Ground Storage: 4.169 inches
Time of Concentration: 0.1667 hours
Initial Stage: 19.7 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
19.70	0.00
20.70	0.00
21.20	0.07
21.70	0.15
22.00	0.24
22.50	0.51
23.00	0.93

Offsite Receiving Body: Offsite1

Time (hr)	Stage (ft NGVD)
0.00	15.80
24.00	18.19
60.00	21.24
360.00	15.80

Structure: 1

From Basin: On-site
To Basin: Offsite1
Structure Type: Gravity
Weir: None
Bleeder: Circular, Invert Elev = 19.7 ft NGVD, Diameter = 0.25 ft
Default Coefs: Weir Coef = 0.6, Orifice Coef = 0.6
Pipe: Diameter = 1.25 ft, Manning's n = 0.012, Length = 70 ft
US Invert Elev = 19.7 ft NGVD, DS Invert Elev = 17.7 ft NGVD, no flap gate

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	19.70	15.80
2.00	0.13	0.00	0.00	0.00	19.70	16.00
4.00	0.29	0.00	0.00	0.00	19.70	16.20
6.00	0.54	0.00	0.00	0.00	19.70	16.40
8.00	0.89	0.00	0.00	0.00	20.70	16.60
10.00	1.38	0.06	0.00	0.00	20.71	16.80
12.00	4.26	2.64	0.27	0.03	21.16	17.00
14.00	5.32	0.24	0.30	0.08	21.47	17.19
16.00	5.72	0.16	0.29	0.13	21.35	17.39
18.00	5.95	0.09	0.27	0.18	21.16	17.59
20.00	6.19	0.10	0.25	0.22	20.95	17.79
22.00	6.34	0.06	0.23	0.26	20.74	17.99
24.00	6.50	0.06	0.22	0.27	20.71	18.19

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.30	13.20	0.00	0.00

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
On-site	21.49	13.20	19.70	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
On-site	0.27	0.00	0.27	0.00	0.00	0.00

Project Name: 1390 Lee Boulevard
Reviewer: TDM, 4-8-26
Project Number:
Period Begin: Jan 01, 2000;0000 hr End: Jan 04, 2000;0000 hr Duration: 72 hr
Time Step: 0.2 hr, Iterations: 10

Basin 1: On-site

Method: Santa Barbara Unit Hydrograph
Rainfall Distribution: SFWMD - 3day
Design Frequency: 25 year
3 Day Rainfall: 11 inches
Area: 1.006 acres
Ground Storage: 4.169 inches
Time of Concentration: 0.1667 hours
Initial Stage: 19.7 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
19.70	0.00
20.70	0.00
21.20	0.07
21.70	0.15
22.00	0.24
22.50	0.51
23.00	0.93

Offsite Receiving Body: Offsite1

Time (hr)	Stage (ft NGVD)
0.00	15.80
24.00	18.19
60.00	21.24
360.00	15.80

Structure: 1

From Basin: On-site
To Basin: Offsite1
Structure Type: Gravity
Weir: None
Bleeder: Circular, Invert Elev = 19.7 ft NGVD, Diameter = 0.25 ft
Default Coefs: Weir Coef = 0.6, Orifice Coef = 0.6
Pipe: Diameter = 1.25 ft, Manning's n = 0.012, Length = 70 ft
US Invert Elev = 19.7 ft NGVD, DS Invert Elev = 17.7 ft NGVD, no flap gate

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	19.70	15.80
6.00	0.30	0.00	0.00	0.00	19.70	16.40
12.00	0.59	0.00	0.00	0.00	19.70	17.00
18.00	0.89	0.00	0.00	0.00	20.70	17.59
24.00	1.18	0.01	0.00	0.00	19.70	18.19
30.00	1.61	0.02	0.00	0.01	19.70	18.70
36.00	2.04	0.03	0.00	0.02	20.70	19.21
42.00	2.47	0.04	0.00	0.04	20.71	19.72
48.00	2.91	0.04	-0.15	0.05	20.72	20.22
54.00	3.58	0.11	0.04	0.08	20.76	20.73
60.00	8.22	4.44	0.20	0.11	21.94	21.24
66.00	10.32	0.13	0.24	0.23	22.16	21.13
72.00	11.00	0.09	0.24	0.34	22.04	21.02

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.24	68.00	-0.20	51.80

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
On-site	22.20	62.60	19.70	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
On-site	0.60	0.00	0.34	0.00	0.26	0.00

Project Name: 1390 Lee Boulevard
Reviewer: TDM, 4-8-26
Project Number:
Period Begin: Jan 01, 2000;0000 hr End: Jan 05, 2000;0000 hr Duration: 96 hr
Time Step: 0.2 hr, Iterations: 10

Basin 1: On-site

Method: Santa Barbara Unit Hydrograph
Rainfall Distribution: SFWMD - 3day
Design Frequency: 100 year
3 Day Rainfall: 14 inches
Area: 1.006 acres
Ground Storage: 4.169 inches
Time of Concentration: 0.1667 hours
Initial Stage: 19.7 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
19.70	0.00
20.70	0.00
21.20	0.07
21.70	0.15
22.00	0.24
22.50	0.51
23.00	0.93

Offsite Receiving Body: Offsite1

Time (hr)	Stage (ft NGVD)
0.00	15.80
24.00	18.19
60.00	21.24
360.00	15.80

Structure: 1

From Basin: On-site
To Basin: Offsite1
Structure Type: Gravity
Weir: None
Bleeder: None
Pipe: None

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	19.70	15.80
8.00	0.50	0.00	0.00	0.00	19.70	16.60
16.00	1.00	0.00	0.00	0.00	20.70	17.39
24.00	1.50	0.02	0.00	0.00	20.76	18.19
32.00	2.24	0.04	0.00	0.00	20.92	18.87
40.00	2.97	0.05	0.00	0.00	21.15	19.55
48.00	3.70	0.06	0.00	0.00	21.38	20.22
56.00	5.11	0.24	0.00	0.00	21.79	20.90
64.00	12.76	0.29	0.00	0.00	22.77	21.17
72.00	14.00	0.12	0.00	0.00	22.89	21.02
80.00	14.00	0.00	0.00	0.00	22.89	20.88
88.00	14.00	0.00	0.00	0.00	22.89	20.73
96.00	14.00	0.00	0.00	0.00	22.89	20.59

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES
==========

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.00	0.00	0.00	0.00

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
On-site	22.89	73.60	19.70	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
On-site	0.84	0.00	0.00	0.00	0.84	0.00

PART IV #26-69

Recommended Action

Engineering Review:

By: _____ 4/30/2026 **Approved** _X_ **Denied** ___

District Field Review:

By: _____ **Approved** ___ **Denied** ___

District Manager: _____ **Date**: _____

Comments:

The referenced permit application for Parking & Outdoor Storage on 1390 Lee Blvd., in Lehigh Acres, submitted by TDM Consulting, Inc., has been reviewed and is recommended for approval with the following stipulations/comments:

1. The proposed roadway appears to encroach into the required 25-foot-wide buffer identified pursuant to LDC Section 34-1352. Coordination with the Lee County Department of Community Development Division may be required to confirm compliance with the applicable buffering requirements and determine whether any deviations or approvals are necessary.

2. The permittee shall submit signed and sealed record drawings within thirty (30) days of project completion. The drawings must include sufficient detail to demonstrate that the permitted facilities have been constructed in substantial compliance with LA-MSID–approved plans and design.

3. Prior to commencing construction, the permittee shall provide LA-MSID with copies of all applicable permits from other governing agencies.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: PER #26-70 thru PER #26-82, Lumos Bores at Various Locations

Meeting Date: June 15, 2026

Agenda Item # 2G

[x] **CONSENT** [ ] **ACTION** [ ] **OLD BUSINESS** [ ] **NEW BUSINESS**

Request Initiated By: [ ] **COMMISSIONER** _____ [ ] **ATTORNEY**

[ ] **BOARD** [x] **MANAGER** [ ] **ENGINEER** [ ] **AUDITOR**

Recommended motion: Move to approve PER #26-70, PER #26-71, PER #26-72, PER #26-73, PER #26-74, PER #26-75, PER #26-76, PER #26-77, PER #26-78, PER #26-79, PER #26-80, PER #26-81, PER #26-82, Lumos Fiber Bores under LAMSID canals, with any listed stipulations.

What the action accomplishes: Allows a group of Lumos's permits to install fiber cables under District canals while ensuring they stay 10-feet below the bottom elevation of each canal.

Fiscal Impact: Permit Fees: #26-70=$1,500.00, #26-71=$3,978.90, #26-72=$1,200.00, #26-73=$2,625.00, #26-74=$1,950.00, #26-75=$2,820.00, #26-76=$1,785.00, #26-77=$2,250.00, #26-78=$1,350.00, #26-79=$1,950.00, #26-80=$1,950.00, #26-81=$3,900.00, #26-82=$2,250.00

Staff comments: Approved according to the plans submitted April 30, 2026.

Staff review and recommended approval:

[ ] **MANAGER** [ ] **ASSISTANT DISTRICT MGR**

[ ] **ATTORNEY** [ ] **FIELD DIRECTOR**

[ ] **ENGINEER** [ ] **FINANCE DIRECTOR**

Board Action:

[ ] **APPROVED** [ ] **DENIED** [ ] **DEFERRED**

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under LowFlow Canal (47-3-7), along the south side of Ocean Park Dr., between Weller Ave. & Lorna Ave., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-70

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-70 is approved according to the plans submitted April 28th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 50' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Ocean Park Drive.

PART I

DATE SUBMITTED: 04 - 28 - 26

PERMIT #: 26 - 70

APPLICATION FOR A PERMIT

***Note**: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: TEP-OPCO, LLC **PHONE #:** (502)552-2733

PROJECT NAME: U38565 - LOWFLOW CANAL - 166 OCEAN PARK DR-LA-MSID-1

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 166 OCEAN PARK DR,					
Mailing Address:					
City:	LEHIGH ACRES	**State:**	FL	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary):*

0	3	-	4	4	-	2	7	-	L	4	-	0	3	0	0	0	-	0	0	4	0

Brief description of proposed project:

Application for:

Directional bore placing 50' of (1) 1.25" HDPE SDR 11 Conduit Equipped with (1) 288-CT Microfiber Optic cable under Lowflow Canal along the South side of Ocean Park Dr between Weller Ave and Lorna Ave.

Is the project proposed to be developed in phases? ☐ **Yes** ☑ **No**

Estimated # of Phases:	1
***Permit Fee:**	$ 1,500.00 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	Lumos Fiber of Florida, LLC						
Mailing Address:	**Street:**	4100 Mendenhall Oaks Parkway, Suite 300					
City:	High Point	**State:**	NC		**Zip:**	27265	
Phone No.	**Area Code:**	515	**Number:**	306 - 3403	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	william.kiefer@lumosfiber.com						

B. Relationship of applicant to property*:

☐ **Owner*** ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee***

☐ **Contract Purchaser*** ☑ **Other (indicate)*** Utility

C.

Name of Developer:						
Mailing Address:	**Street:**					
City:		**State:**		**Zip:**		
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:						

D.

Name of Authorized Agent(s):	TEP OPCO, LLC.					
Mailing Address:	**Street:**	5906-A Breckenridge Pkwy				
City:	Tampa	**State:**	FL	**Zip:**	33610	
Phone No.	**Area Code:**	(502)	**Number:**	552 - 2733	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:	FL-permitting@tepgroup.net					

E.

Name of Property Owner:						
Mailing Address:	**Street:**					
City:		**State:**		**Zip:**		
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:						

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

PRIMARY STRAP NUMBER: ☐☐-☐☐-☐☐-☐☐-☐☐☐☐☐-☐☐☐☐

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership
N/A	

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock
N/A	

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest
N/A	

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest
N/A	

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest
N/A	

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest
N/A	

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

William Kiefer
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 28th day of April (m), 2026 (y), by William Kiefer who is personally know to me or has produced _____ as identification.

ANNA M. BAKER
MY COMMISSION # HH 582094
EXPIRES: August 13, 2028

Anna M. Baker
SIGNATURE OF NOTARY PUBLIC

Anna M. Baker
PRINTED NAME OF NOTARY PUBLIC

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

ENGINEER

Name:	TEP-OPCO, LLC JOSH CARDEN						
Mailing Address:	326 Tyron Road						
City:	Raleigh	**State:**	NC			**Zip:**	27603
Business No.	**Area Code:**	(336)	**Number:**	214 -2099		**Ext.**	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	McKim & Creed						
Mailing Address:	5701 Division Drive, Suite A						
City:	Fort Myers	**State:**	FL			**Zip:**	33905
Business No.	**Area Code:**	(239)	**Number:**	275 - 8875		**Ext.**	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES SUB'D	NO. OF COPIES REQ'D	SUBMITTAL DOCUMENT
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
Z	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
N/A	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
Z	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
Z	2	**Permit Application** (PARTS I & II)
Z	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
Z	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
N/A	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
N/A	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
*	1	**Check for appropriate Permit Fees** made out to LA-MSID.

From Deposit

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/11/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-70	Lumos Bore under Lowflow Canal (47-3-7)	Total Fee
	At Ocean Park Drive	$1,500.00
		Due
	Permit Fee: $750 + $15 x 50' R/W	From
	= $750 + $750	Deposit
	Total Fee = $1,500.00	
	TOTAL	$1,500.00

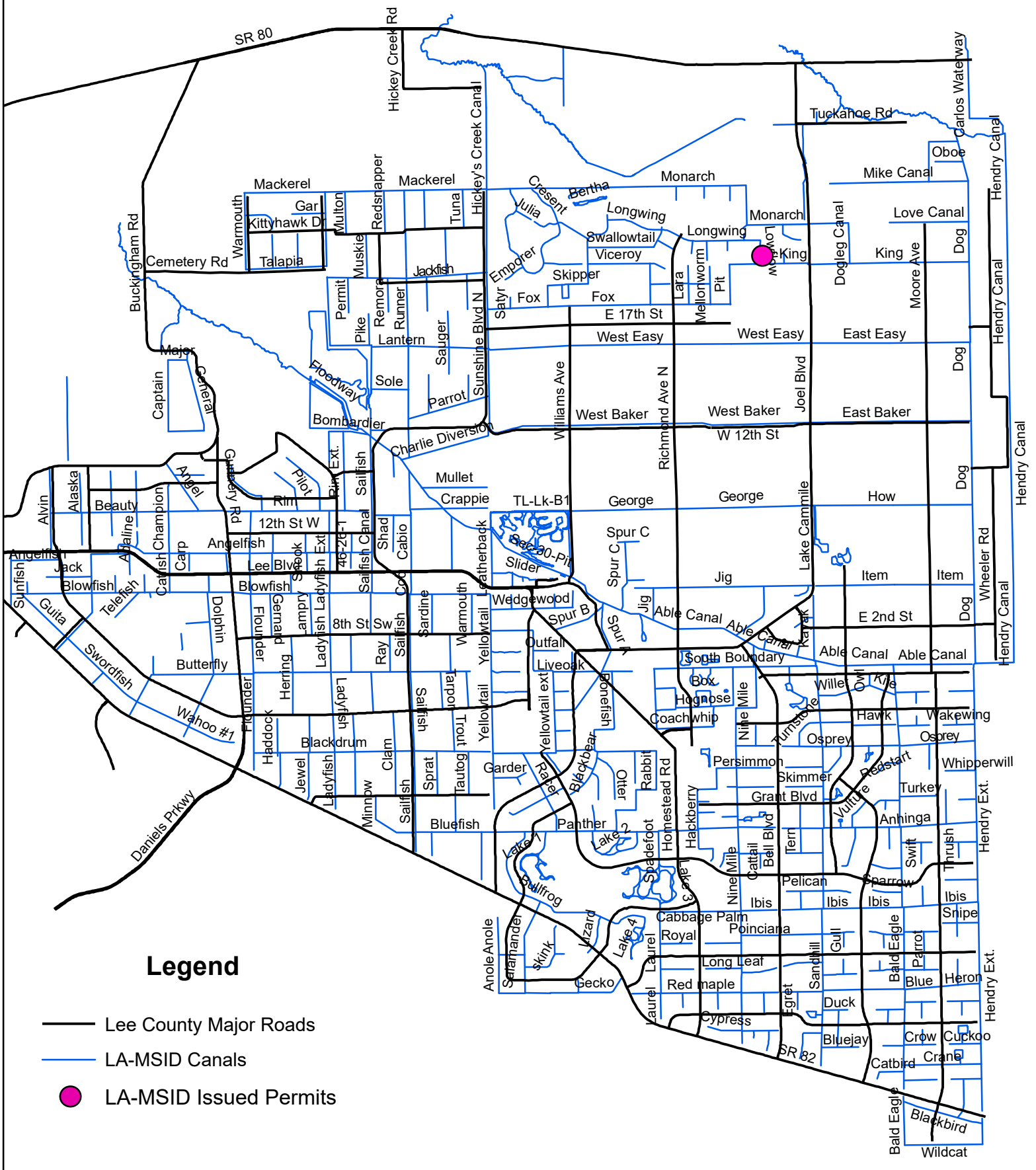
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/11/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry.**

*The CR account will need to be changed based on the customer. See accounting to setup new customer deposit accounts.

Permit # 2026-70



Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

U38565 - LOWFLOW CANAL - 166 OCEAN PARK DR-LA-MSID-1

166 OCEAN PARK DR, LEHIGH ACRES, FL 33972 (26.673285, -81.607772)

Know what's below
Call before you dig.

N

PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 178' OF (1) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 288-CT MICROFIBER OPTIC CABLE. (2) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

SHEET INDEX

A - COVER SHEET
B - SOW & CONTACTS
C - LEGEND
D1-D2 - GENERAL NOTES
E - CONSTRUCTION NOTES
F-H - TYPICALS
1- 1 - PROJECT SHEETS
1A - PROFILE VIEW
I1 - I2 - IMAGES

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, PLLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, PLLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEPDB OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY. THESE DRAWINGS ARE INTENDED TO DEPICT FIBER OPTIC CABLES, CONDUITS, AND RELATED INFRASTRUCTURE WITHIN THE PUBLIC RIGHT-OF-WAY (R/W) OR AREAS WITH VALID, RECORDED EASEMENTS OR LEASES, HOWEVER R/W LOCATIONS ARE BASED SOLELY ON GEOGRAPHIC INFORMATION SYSTEMS (GIS) DATA FROM THE LOCAL JURISDICTION. SURVEYS TO VERIFY R/W OR PROPERTY BOUNDARIES WERE NOT PERFORMED. WHERE INSTALLATION ROUTES EXTEND BEYOND THE R/W, THE UTILITY OWNER/OPERATOR IS SOLELY RESPONSIBLE FOR SECURING AND PROVIDING ALL NECESSARY EASEMENTS, LEASES, OR PROPERTY RIGHTS PRIOR TO CONSTRUCTION. CONTRACTORS SHALL RELY ON THE UTILITY OWNER/OPERATOR'S DOCUMENTATION AND ARE RESPONSIBLE FOR ENSURING THAT CONSTRUCTION OCCURS ONLY WITHIN AUTHORIZED AREAS. TEP, THE ENGINEER, DESIGNER, AND CREATOR OF THESE DRAWINGS ASSUME NO RESPONSIBILITY OR LIABILITY FOR UNAUTHORIZED PLACEMENT OF UTILITIES OUTSIDE THE PUBLIC R/W OR ON PRIVATE PROPERTY WITHOUT PROPER LEGAL AUTHORIZATION. ALL INSTALLATIONS MUST COMPLY WITH APPLICABLE LAWS AND REGULATIONS.

TEP OPCO, LLC
5906-A Breckenridge Pkwy, Tampa, FL 33610
FL COA# 31011
SHAINE HERRICK
SHERRICK@TEPGROUP.NET

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

This item has been digitally signed and sealed by JOSHUA H. CARDEN on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SHEET TITLE:
COVER PAGE

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38565
DESCRIPTION:	166 OCEAN PARK DR
DRAWING NAME:	U38565 - LOWFLOW CANAL - 166 OCEAN PARK DR-LA-MSID-1

SHEET:
A of 1

CONFIDENTIAL/PROPRIETARY

SCOPE OF WORK

- BURIED PLACEMENT OF 178' OF (1) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 288-CT MICROFIBER OPTIC CABLE. (2) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

ENGINEERING COMPANY

TEP OPCO, LLC
5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

DIRECTOR - OSP OPERATIONS:
ALEX MORA
OFFICE : 704-751-1123
AMORA@TEPGROUP.NET

PROJECT MANAGER:
SHAINE HERRICK
SHERRICK@TEPGROUP.NET

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

COMCAST
CHAD EVENER
(941) 356-1564

FLORIDA POWER & LIGHT--LEE
FPL CABLE LOCATIONS-DISTRIBUTION SDD/MPE - EDGAR.AGUILAR@FPL.COM, JAMIE.PURNELL@FPL.COM

LUMOS FIBER OF FLORIDA, LLC
BRIAN HARTZ
(239) 253-9844

FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

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SHEET TITLE:
SOW & CONTACTS

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38565
DESCRIPTION:	166 OCEAN PARK DR
DRAWING NAME:	U38565 - LOWFLOW CANAL - 166 OCEAN PARK DR-LA-MSID-1

SHEET:
B of 1

CONFIDENTIAL/PROPRIETARY

LEGEND

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL / DESCRIPTION

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F		
	IN:	0
	OUT:	0

SEQUENTIAL CALLOUT

#F		
	IN:	0
	TAIL:	0

SEQUENTIAL IN TAIL CALLOUT

#F		
	TAIL:	0
	OUT:	0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'–0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT
FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'–0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT
FROM 1 TO 6 ATTACHMENTS

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC — FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

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SHEET TITLE: LEGEND

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38565
DESCRIPTION:	166 OCEAN PARK DR
DRAWING NAME:	U38565 - LOWFLOW CANAL - 166 OCEAN PARK DR-LA-MSID-1

SHEET: C of 1

CONFIDENTIAL/PROPRIETARY

GENERAL NOTES

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

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GENERAL NOTES

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38565
DESCRIPTION:	166 OCEAN PARK DR
DRAWING NAME:	U38565 - LOWFLOW CANAL - 166 OCEAN PARK DR-LA-MSID-1

SHEET:
D1 of 1

CONFIDENTIAL/PROPRIETARY

GENERAL NOTES

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

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GENERAL NOTES

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38565
DESCRIPTION:	166 OCEAN PARK DR
DRAWING NAME:	U38565 - LOWFLOW CANAL - 166 OCEAN PARK DR-LA-MSID-1

SHEET:
D2 of 1

CONFIDENTIAL/PROPRIETARY

FDOT CONSTRUCTION NOTES

1. Aerial crossings of State roads involving temporary lane closures are to be done between the hours of 12:00 am and 5:00 am Monday through Thursday unless previously approved by the Department.

2. When directional bore is the method of installation, a minimum 24-inch separation shall be maintained from all existing utilities unless supervised, ITS/ATMS lines, and storm drain systems while maintaining the minimum required depth under pavement or non-paved ground.

3. If the proposed utility cannot be installed per the approved permitted plan and by FDOT specifications, a revised plan must be provided to the Department for review and approval prior to the installation of products or materials at the given locations where conflicts occur.

4. Any new proposed plan shall include cross sections, plan views and profiles of the State road adequately reflecting all right-of-way features including but not limited to existing utilities, storm drain systems and any above or below ground appurtenances where applicable.

5. No pedestrian pathway is to be removed, blocked, or disturbed without having a sufficient designated temporary pedestrian pathway with all appropriate pedestrian maintenance of traffic signs (Index 660) in-place prior to pathway being affected.

6. All temporary pedestrian pathways must be firm and unyielding.

7. Any sidewalk disturbed will be replaced by section within 72 hours to FDOT specifications.

8. Any sidewalk fronting the property that is cracked, damaged or unstable and is creating an ADA trip hazard must be replaced by section, using Standard #520-001, #522-002, and #522-001 for the construction of sidewalk and meet current ADA Standards. All concrete placed in the right of way shall be a minimum of 6" thick, FDOT Certified Class 1 non-structural, 57 stone, 2500 PSI concrete, with fiber mesh material from a FDOT approved plant.

9. FDOT reserves the right to make adjustments to any permitted method of installation, scope of work, and restoration that may be required to positively support life, safety, and environmental well-being of all users of the transportation system.

10. The Permittee shall notify the FDOT of date of completion, request a final inspection, and a Notice of Final Acceptance.

11. All construction and/or maintenance in the FDOT right-of-way shall conform to the Federal Manual on Uniform Traffic Devices (MUTCD), the FDOT Roadway and Traffic Design Standards, the Standard Specifications for Road and Bridge Construction, the Florida Design Manual, and the Drainage Manual.

12. Prior to removal of existing curb or driveway, the edge of travel shall be sawcut to avoid damaging the existing roadway asphalt. All concrete to be removed in FDOT right-of-way shall be sawcut and removed from the nearest joint.

13. No lane closure of any State roadway is allowed without a minimum of two (2) weeks advance notification and approval from FDOT.

14. Lane closures must be limited to Sunday through Thursday 8:00 pm to 5:30 am unless otherwise approved by FDOT.

15. Any sidewalk damaged because of work being performed in association with the Permittee and Contractor shall be removed and replaced with 6-inch thick Class 1 non-structural, 2,500 PSI with fiber mesh.

16. Open cutting of any roadway, driveway or sidewalk outside those limits identified within the permit are not allowed without prior approval of by FDOT.

17. The Contractor shall have an authorized person available at/or near the work site on a 24-hour basis, 7 days a week in order to address emergency issues associated with the project.

18. No stockpiling, storing or semi-permanent use of the right-of-way is authorized unless specifically identified within the permit.

19. No work shall be performed during the weeks of any State or Federal holiday unless otherwise approved in writing by FDOT.

20. The permitted work schedule is defined as Monday through Friday 7:00 am to 5:30 pm unless otherwise noted within the permit. Any work desired outside of this period must be requested in advance and approved before working the alternate schedule.

21. When work is associated with roadway modifications and/or site development, the Contractor is required to have a preconstruction meeting with the FDOT inspector two weeks prior to any construction beginning within the right-of-way.

22. All work performed under this permit within the right-of-way is to be scheduled with FDOT inspection staff.

23. Roadway restoration shall utilize 100 PSI excavatable flowable fill material and asphalt placed within the State right-of-way shall be placed full-depth, two 2.5-inch lifts of SP 12.5, two 1.5-inch lifts of SP 9.5. Typical sections will need to be provided within the plans for the pavement placement. A stair step method should be incorporated, prior to placing asphalt, to avoid vertical joints. Milling of the patch may be required based on the patched surface performance. The milling shall be utilized for surface leveling to a thickness equal to or greater than the existing friction coarse material. The milling limits are 50-foot of the patch along the longitudinal path of the lane, full lane width and to include any adjacent bike lanes, shared path or urban shoulder sections.

24. Any disruptions to any permeable pedestrian way and bike lane are to be restored as work continues. All patches shall be full width from outside edge of pedestrian path to white line edge of travel lane with stair step (staggered) joints. Restoration to include backfill with existing sub-grade material and #57 stone as base material (compact in 6-inch lifts) to bottom of existing pervious asphalt base, followed by permeable design mix (if available) or FC-5 (Friction Course) mix with a minimum 2-inch and maximum 3-inch lifts. Maintain ingress/egress on all drives and side streets during construction.

25. Any bore pit greater than five (5) feet in depth requires a Sheeting and Shoring Plan as well as a Dewatering Plan.

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TAMPA, FL 33610

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REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

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SHEET TITLE:
CONSTRUCTION NOTES

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38565
DESCRIPTION:	166 OCEAN PARK DR
DRAWING NAME:	U38565 - LOWFLOW CANAL - 166 OCEAN PARK DR-LA-MSID-1

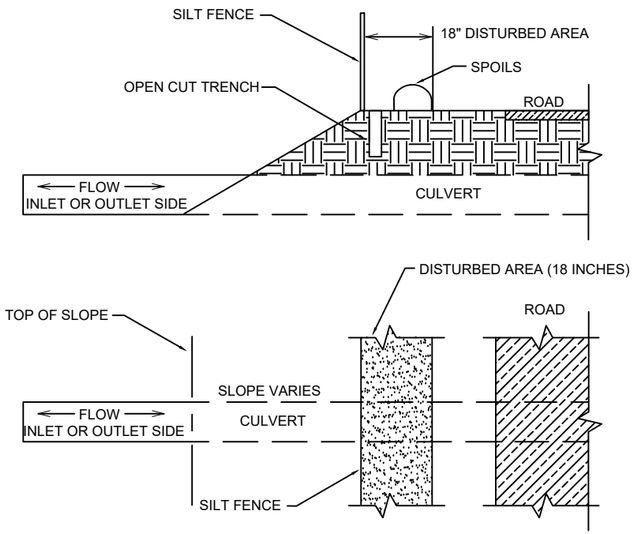
SHEET:
E of 1

CONFIDENTIAL/PROPRIETARY

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

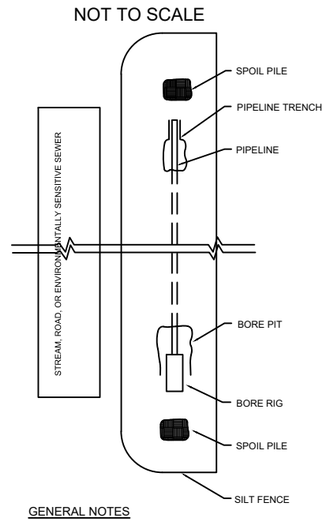
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

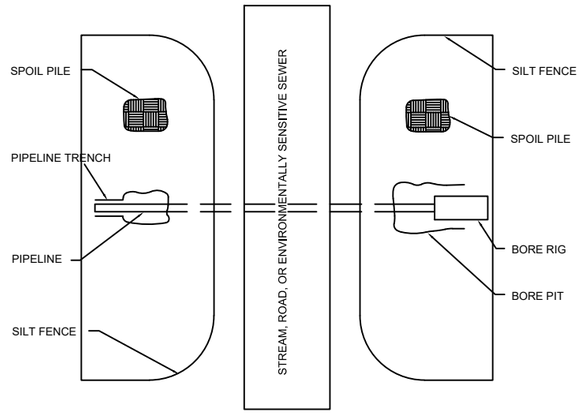


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

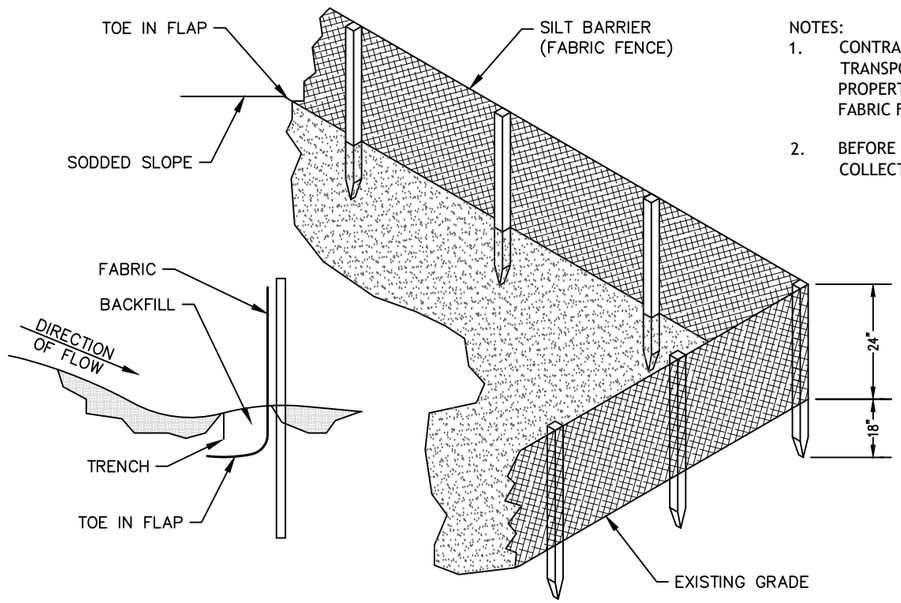
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

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SHEET TITLE: TYPICALS

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PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38565
DESCRIPTION:	166 OCEAN PARK DR
DRAWING NAME:	U38565 - LOWFLOW CANAL - 166 OCEAN PARK DR-LA-MSID-1

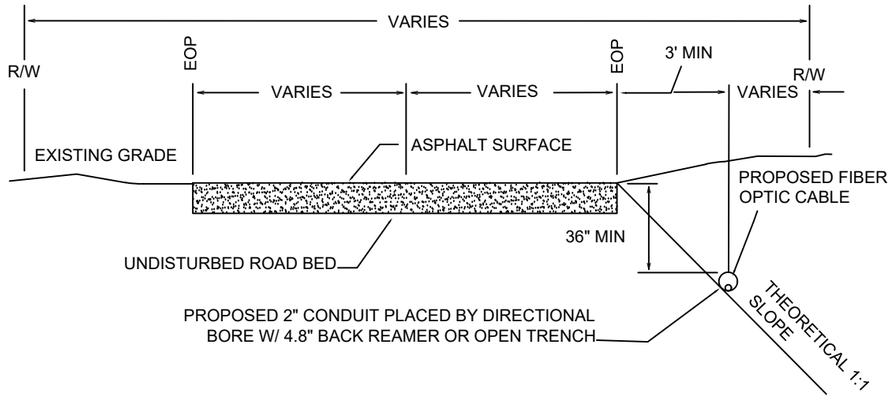
SHEET: F of 1

CONFIDENTIAL/PROPRIETARY

TYPICALS

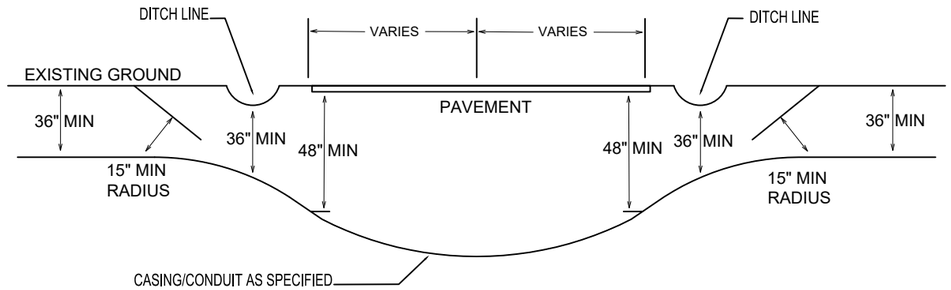
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



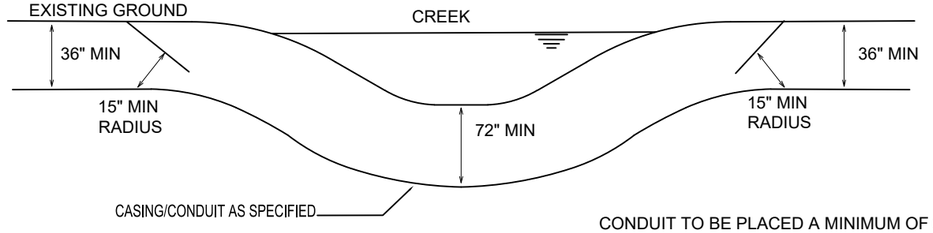
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

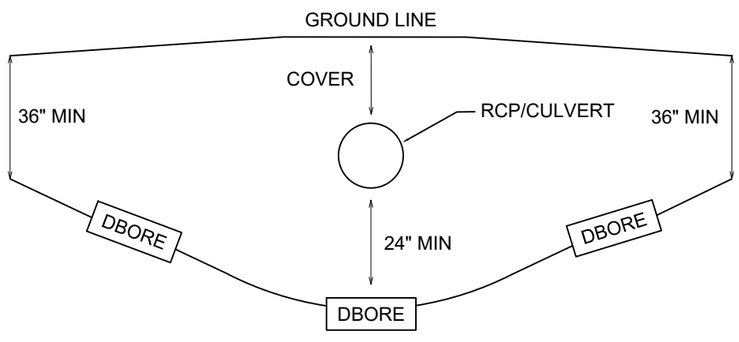
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 6 FEET BELOW CREEK BED

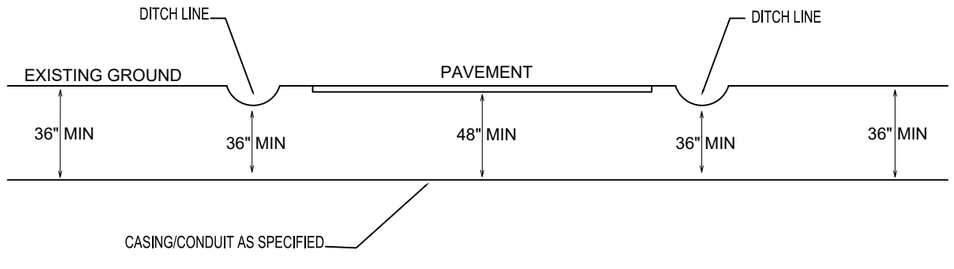
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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PROJECT ENGINEER:	DARIA COSTIN
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DESCRIPTION:	166 OCEAN PARK DR
DRAWING NAME:	U38565 - LOWFLOW CANAL - 166 OCEAN PARK DR-LA-MSID-1

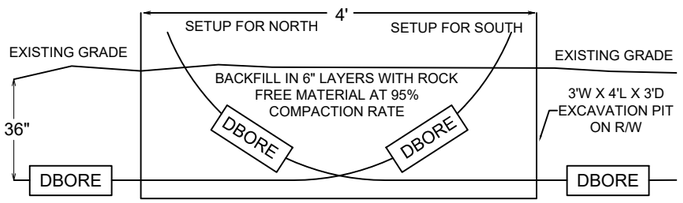
SHEET: G of 1

CONFIDENTIAL/PROPRIETARY

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

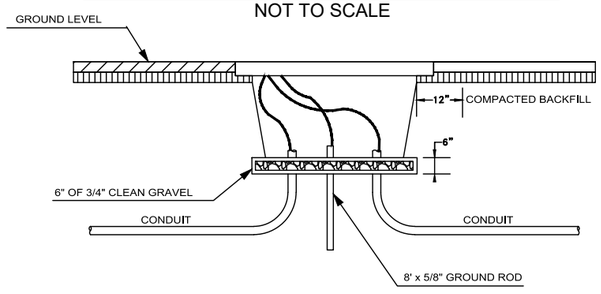


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

PULL BOX HANDHOLE

NOT TO SCALE



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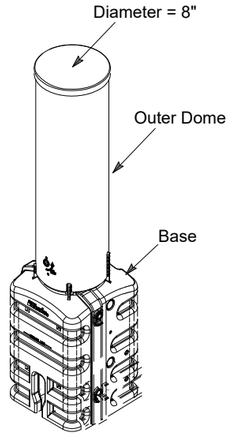
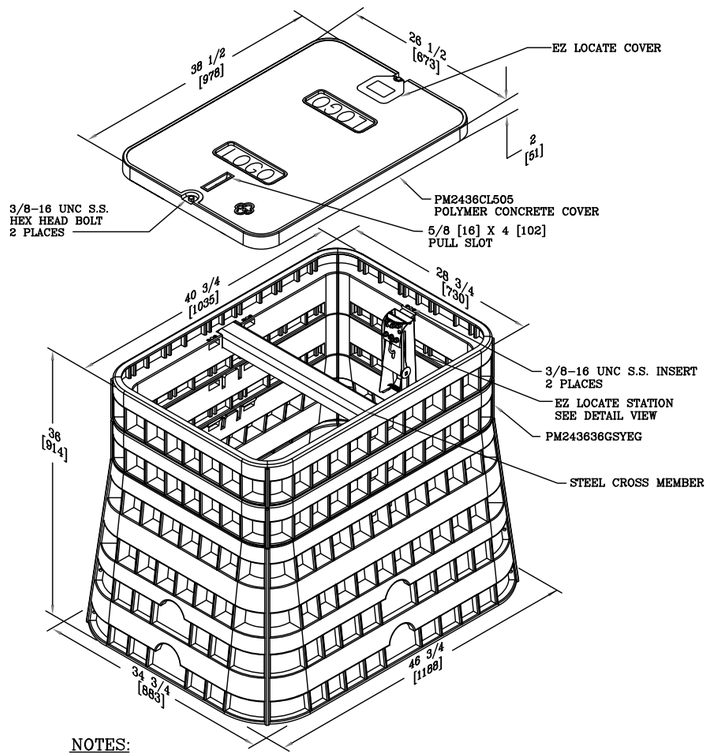
BDO204-EG

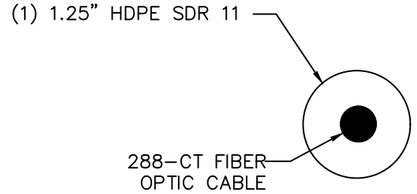




NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

PIPE DETAIL



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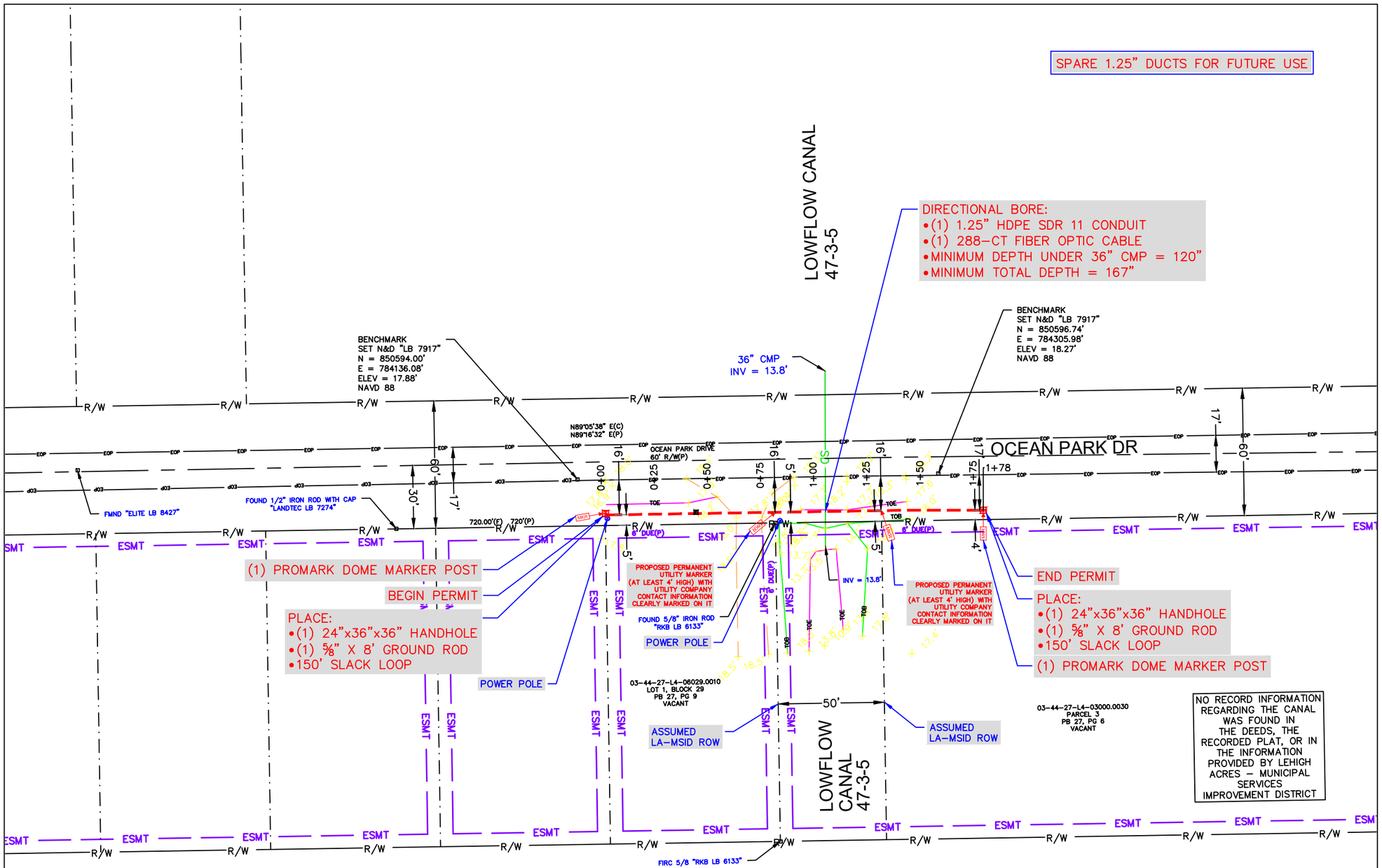

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0 10' 20' 30' 40' 50'
SCALE: 1"=50'

N

811 Know what's below Call before you dig.

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TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN
LICENSE
No 83511
STATE OF
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PROFESSIONAL ENGINEER

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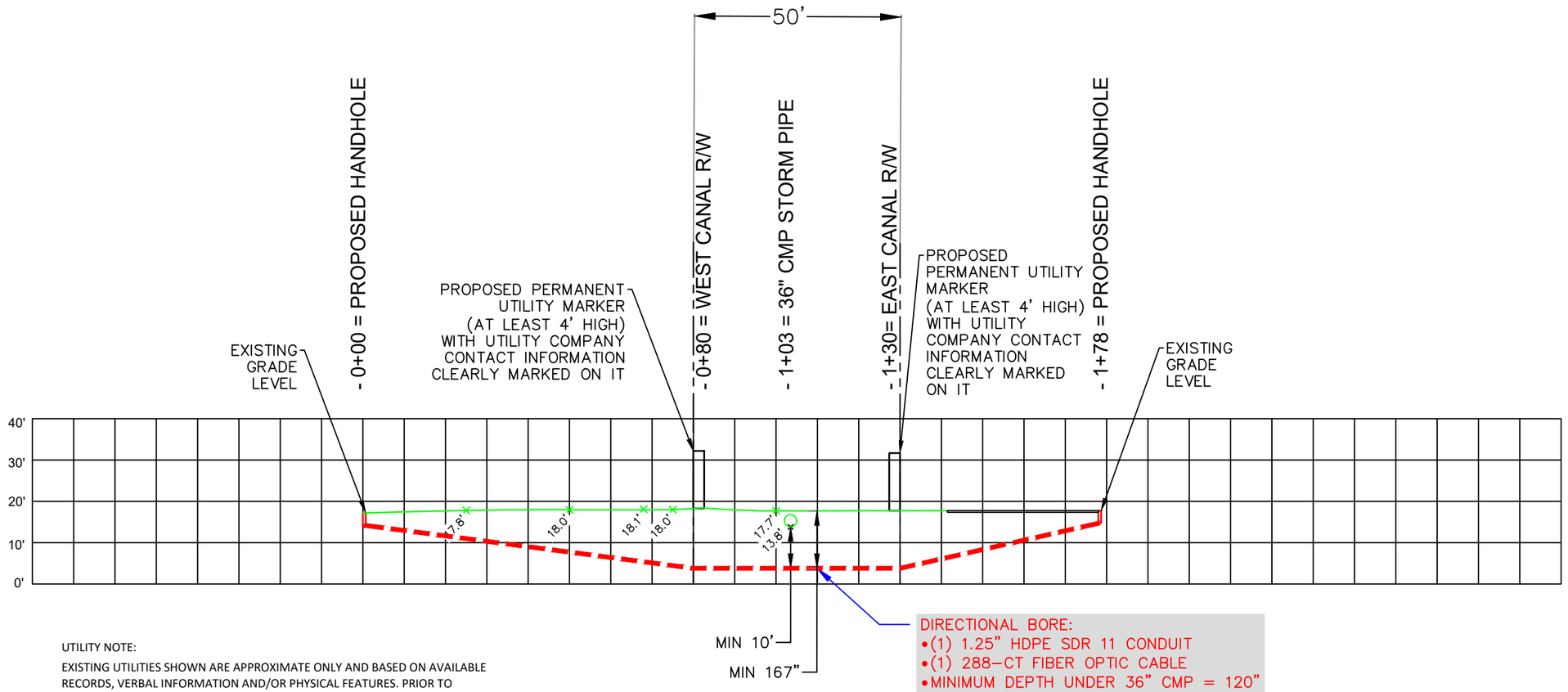
SHEET:	1 of 1

CONFIDENTIAL/PROPRIETARY

SUB-GRADE VERTICAL PROFILE VIEW
OCEAN PARK DR
FACING NORTH



UTILITY NOTE:

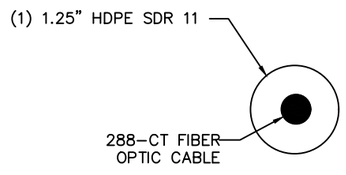
EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

NOTE:

BORE MUST BE 10' BELOW THE LOWEST PIPE INVERT OR THE CANAL BOTTOM, WHICHEVER IS LOWEST, FOR THE ENTIRE 50' WIDE CANAL RIGHT OF WAY.

ALL CANAL RIGHT OF WAY THAT IS DISTURBED MUST BE RESTORED WITH SOD AND MAINTAINED UNTIL WELL ESTABLISHED. NO SEEDING WILL BE ALLOWED.

PIPE DETAIL



NOTE:
BORE TO MAINTAIN A MINIMUM DEPTH OF 48" BELOW GRADE AND A MINIMUM DEPTH OF 48" BELOW TOP OF ROADWAY. A MINIMUM OF 30" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES, ITS/ATMS, AND STORM DRAIN SYSTEMS UNLESS SUPERVISED. NO BACK REAMER REQUIRED DUE TO SIZE OF 4" BIT. SOFT DIGS &/OR POTHOLING MAY BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, PLLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, PLLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEPDB OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY. THESE DRAWINGS ARE INTENDED TO DEPICT FIBER OPTIC CABLES, CONDUITS, AND RELATED INFRASTRUCTURE WITHIN THE PUBLIC RIGHT-OF-WAY (R/W) OR AREAS WITH VALID, RECORDED EASEMENTS OR LEASES, HOWEVER R/W LOCATIONS ARE BASED SOLELY ON GEOGRAPHIC INFORMATION SYSTEMS (GIS) DATA FROM THE LOCAL JURISDICTION. SURVEYS TO VERIFY R/W OR PROPERTY BOUNDARIES WERE NOT PERFORMED. WHERE INSTALLATION ROUTES EXTEND BEYOND THE R/W, THE UTILITY OWNER/OPERATOR IS SOLELY RESPONSIBLE FOR SECURING AND PROVIDING ALL NECESSARY EASEMENTS, LEASES, OR PROPERTY RIGHTS PRIOR TO CONSTRUCTION. CONTRACTORS SHALL RELY ON THE UTILITY OWNER/OPERATOR'S DOCUMENTATION AND ARE RESPONSIBLE FOR ENSURING THAT CONSTRUCTION OCCURS ONLY WITHIN AUTHORIZED AREAS. TEP, THE ENGINEER, DESIGNER, AND CREATOR OF THESE DRAWINGS ASSUME NO RESPONSIBILITY OR LIABILITY FOR UNAUTHORIZED PLACEMENT OF UTILITIES OUTSIDE THE PUBLIC R/W OR ON PRIVATE PROPERTY WITHOUT PROPER LEGAL AUTHORIZATION. ALL INSTALLATIONS MUST COMPLY WITH APPLICABLE LAWS AND REGULATIONS.

0 10' 20' 30'
SCALE: 1"=30'

N

811 Know what's below Call before you dig.

REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

This item has been digitally signed and sealed by JOSHUA H. CARDEN on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SHEET TITLE:
PROJECT SHEET

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38565
DESCRIPTION:	166 OCEAN PARK DR
DRAWING NAME:	U38565 - LOWFLOW CANAL - 166 OCEAN PARK DR-LA-MSID-1

SHEET:
1A of 1

CONFIDENTIAL/PROPRIETARY

STREET LEVEL VIEW
STA 0+80
FACING WEST

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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SCALE = N.T.S.

N

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0	ORIGINAL	DC	04/28/2026

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SHEET:	I1 of 1

CONFIDENTIAL/PROPRIETARY

STREET LEVEL VIEW
STA 0+80
FACING EAST

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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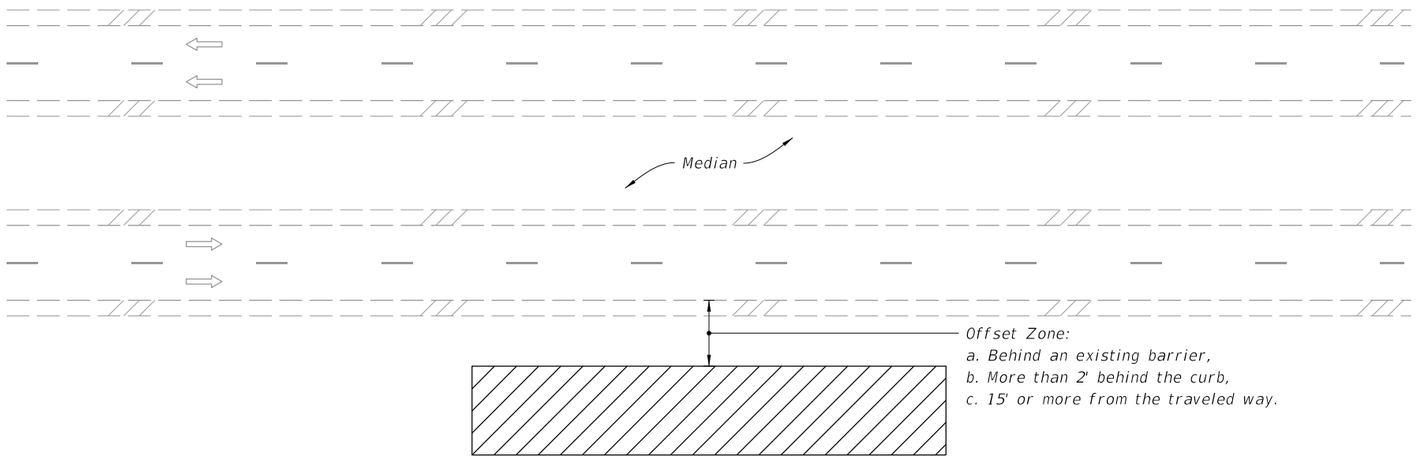
SHEET: I2 of 1

CONFIDENTIAL/PROPRIETARY



MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR

NOTES:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.

2. Use Index 102-602 when the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the Offset Zone in any one hour period.

3. Use Index 102-660 when Work Area encroaches a Sidewalk.

SYMBOLS:

Work Area

Lane Identification and Direction of Traffic

9/10/2024 10:45:01 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/20			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER	102-601	1 of 1

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

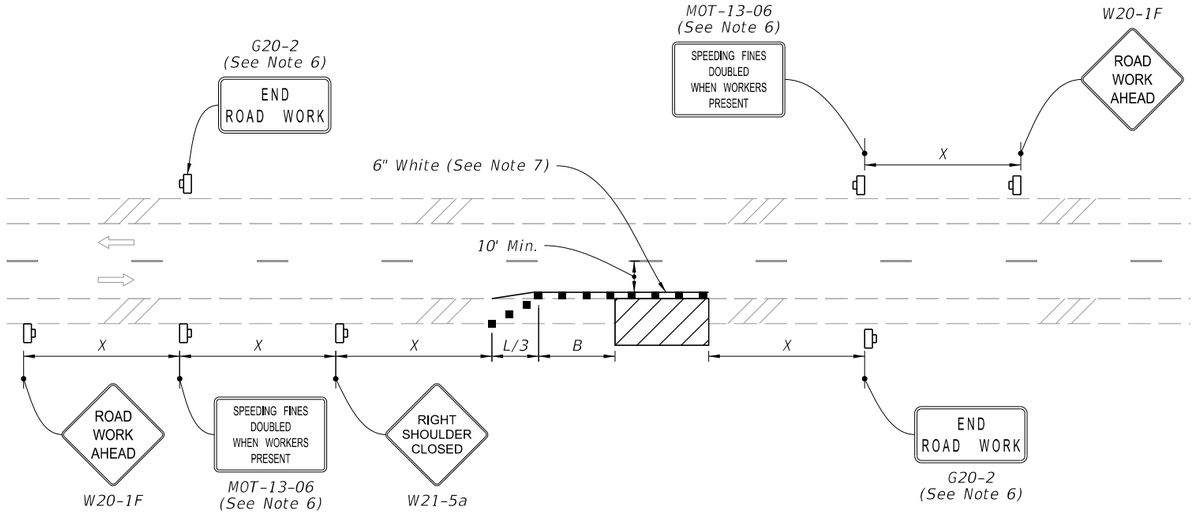
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

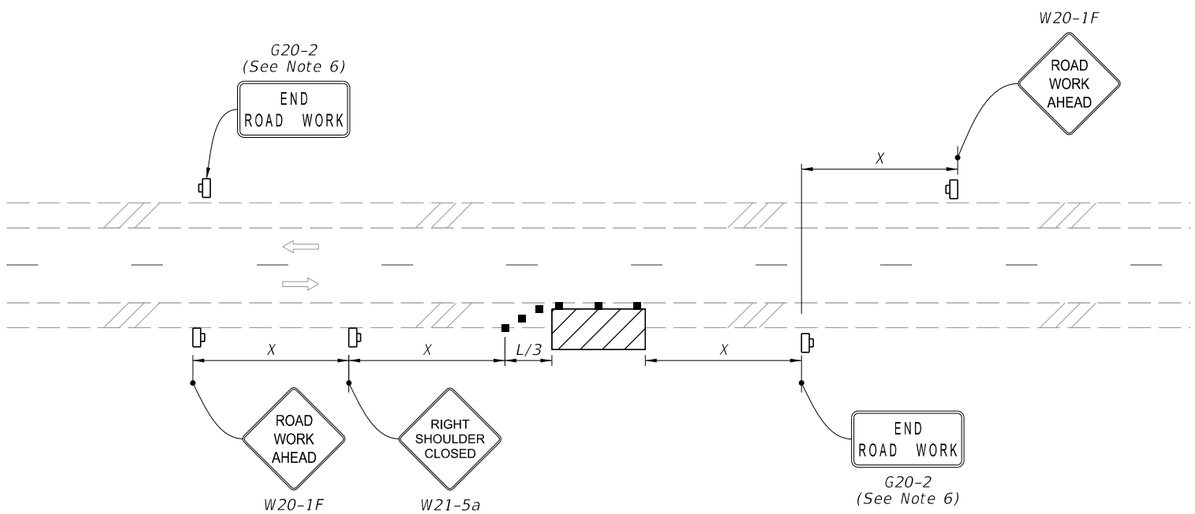
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



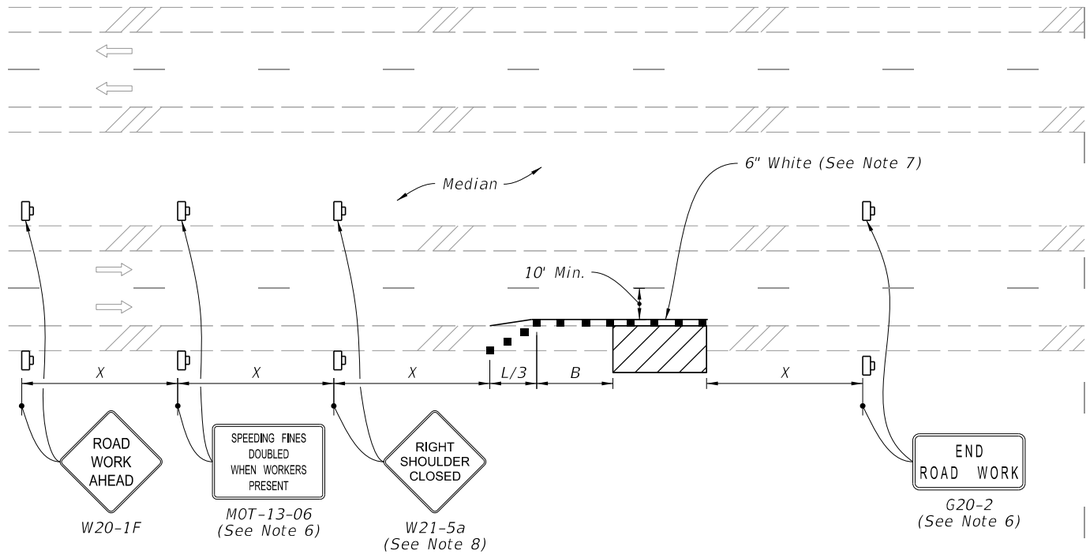
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



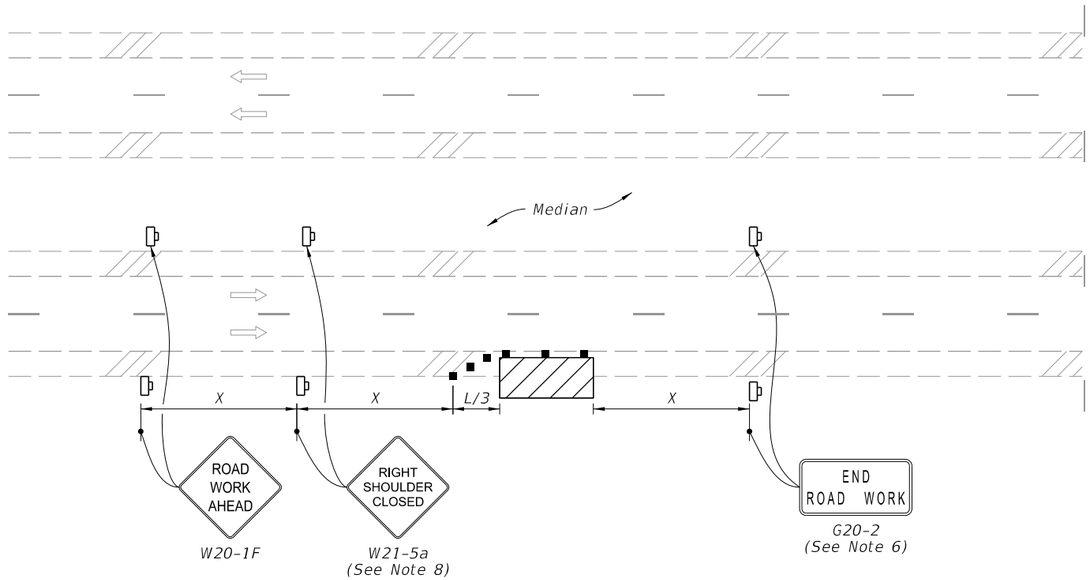
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

NOTES:

1. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.

2. Place pedestrian LCDs across the full width of the closed sidewalk.

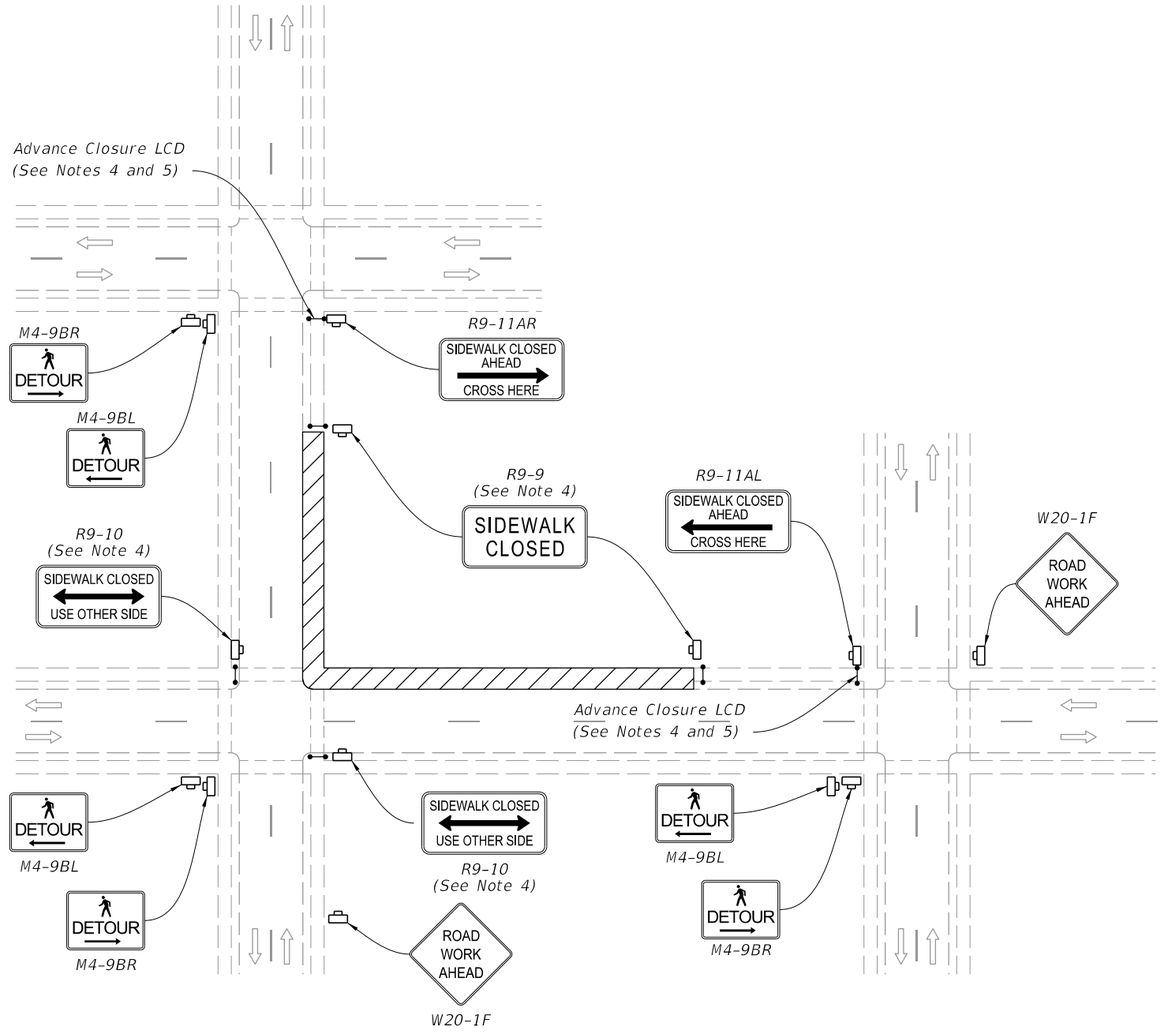
3. For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.

4. "Sidewalk Closed" signs (R9-XX) may be mounted on pedestrian LCDs in accordance with the manufacturer's instructions.

5. Omit the Advance Closure LCD if it blocks access to other pedestrian facilities (e,g,, transit stops, residences, or business entrances).

SYMBOLS:

- Work Area
- Work Zone Sign
- Pedestrian Longitudinal Channelizing Device (LCD)
- Lane Identification and Direction of Traffic



PEDESTRIAN DETOUR

9/10/2024 11:11:04 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FY 2025-26 STANDARD PLANS	SIDEWALK CLOSURE	INDEX 102-660	SHEET 1 of 2

NOTES:

1. L = Taper Length
   B = Buffer Length
   X = Work Zone Sign Distance
   See Index 102-600 for "L", "B", "X", channelizing device spacing values.

2. Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways less than 5' in width at intervals not to exceed 200'.

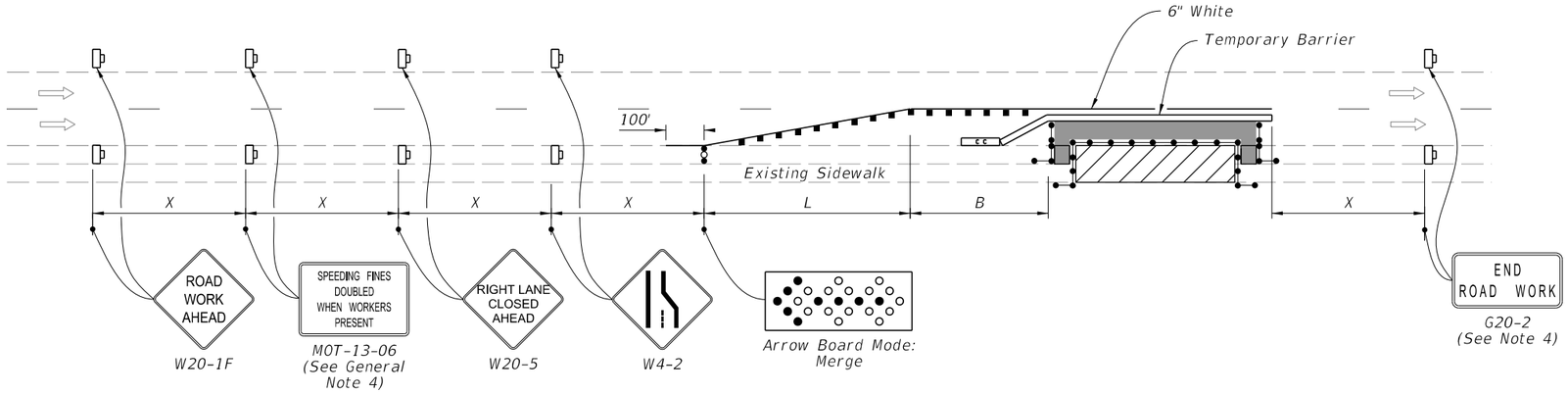
3. When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane.

4. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less.

5. Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.

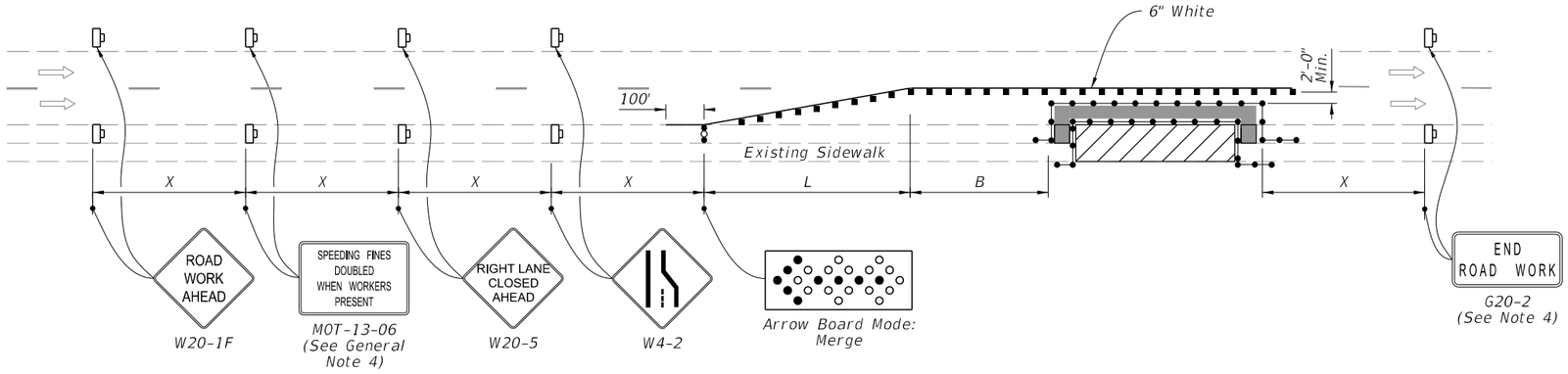
SYMBOLS:

- Work Area
- Temporary Pedestrian Way
- Channelizing Device (See Index 102-600)
- Pedestrian Longitudinal Channelizing Device (LCD)
- Work Zone Sign
- Arrow Board
- Crash Cushion
- Lane Identification and Direction of Traffic



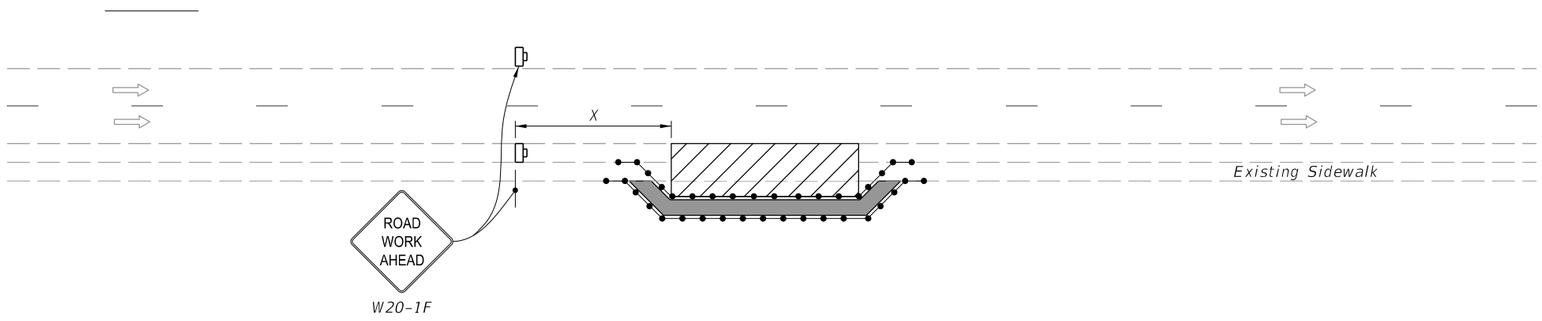
PEDESTRIAN DIVERSION - OPTION 1

(Temporary Barrier Shown, Low Profile Barrier Similar)



PEDESTRIAN DIVERSION - OPTION 2

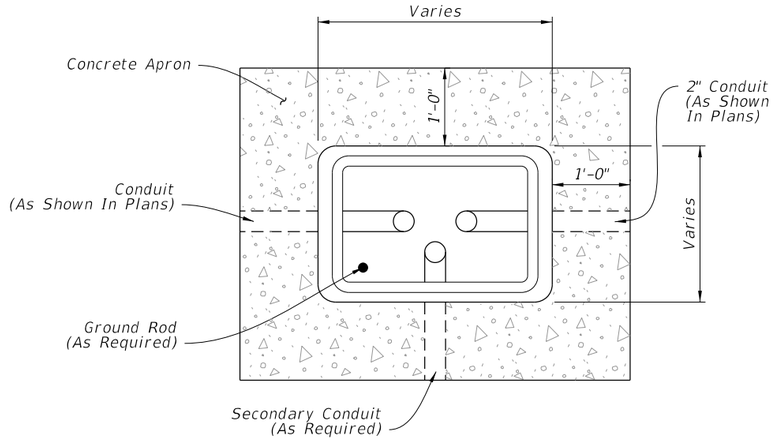
(Work Zone Speed 45 mph or Less)



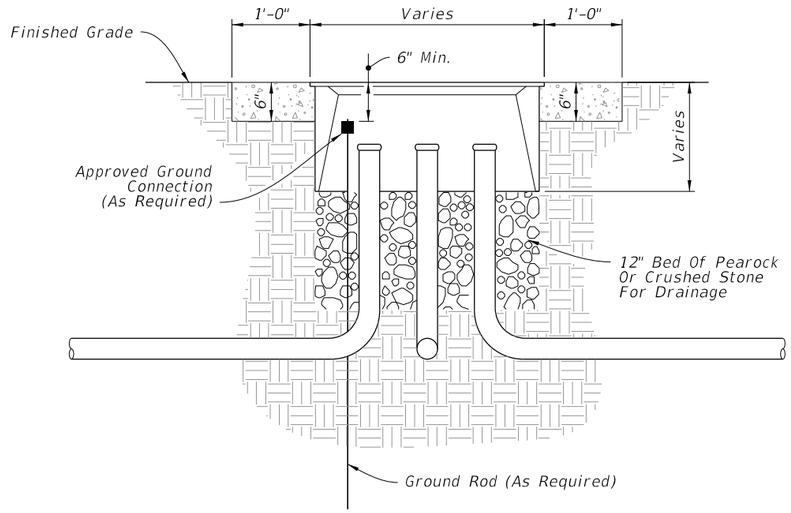
PEDESTRIAN SPECIAL DETOUR

9/10/2024 11:11:11 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/23			FY 2025-26 STANDARD PLANS	SIDEWALK CLOSURE	102-660	2 of 2

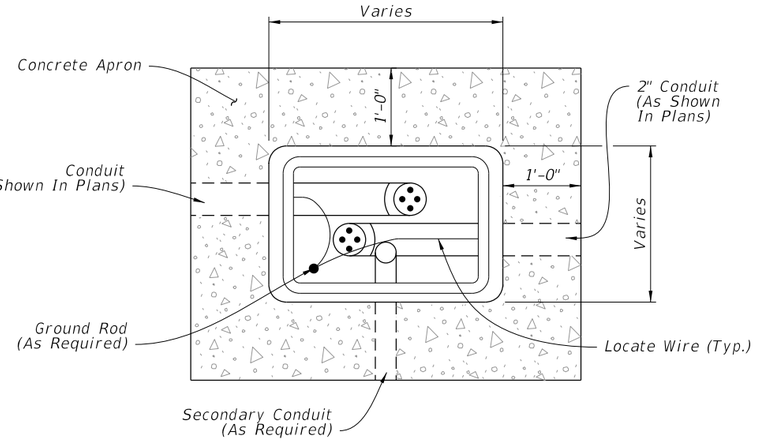


PLAN

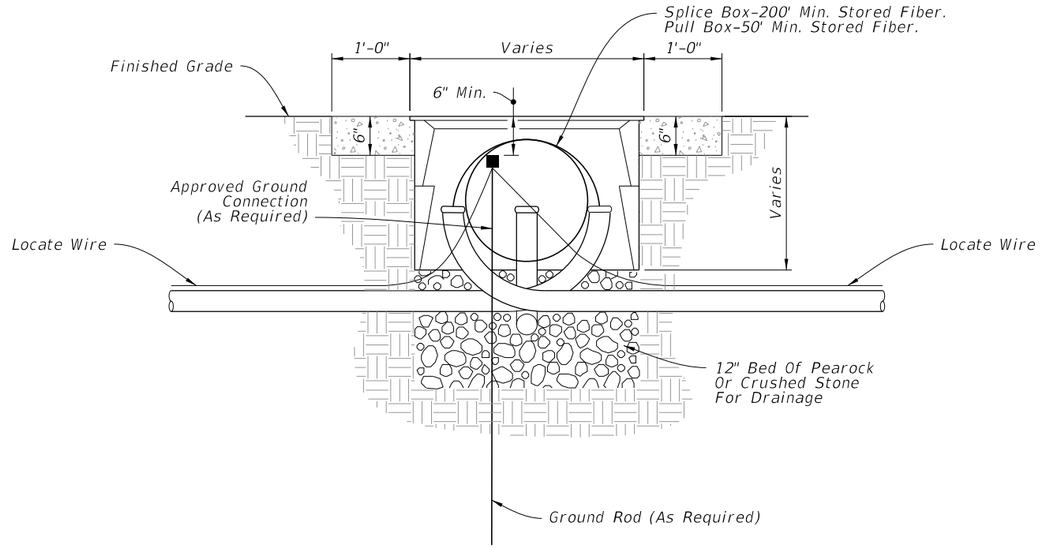


ELEVATION

PULL BOX



PLAN



ELEVATION

FIBER OPTIC BOX

NOTES:

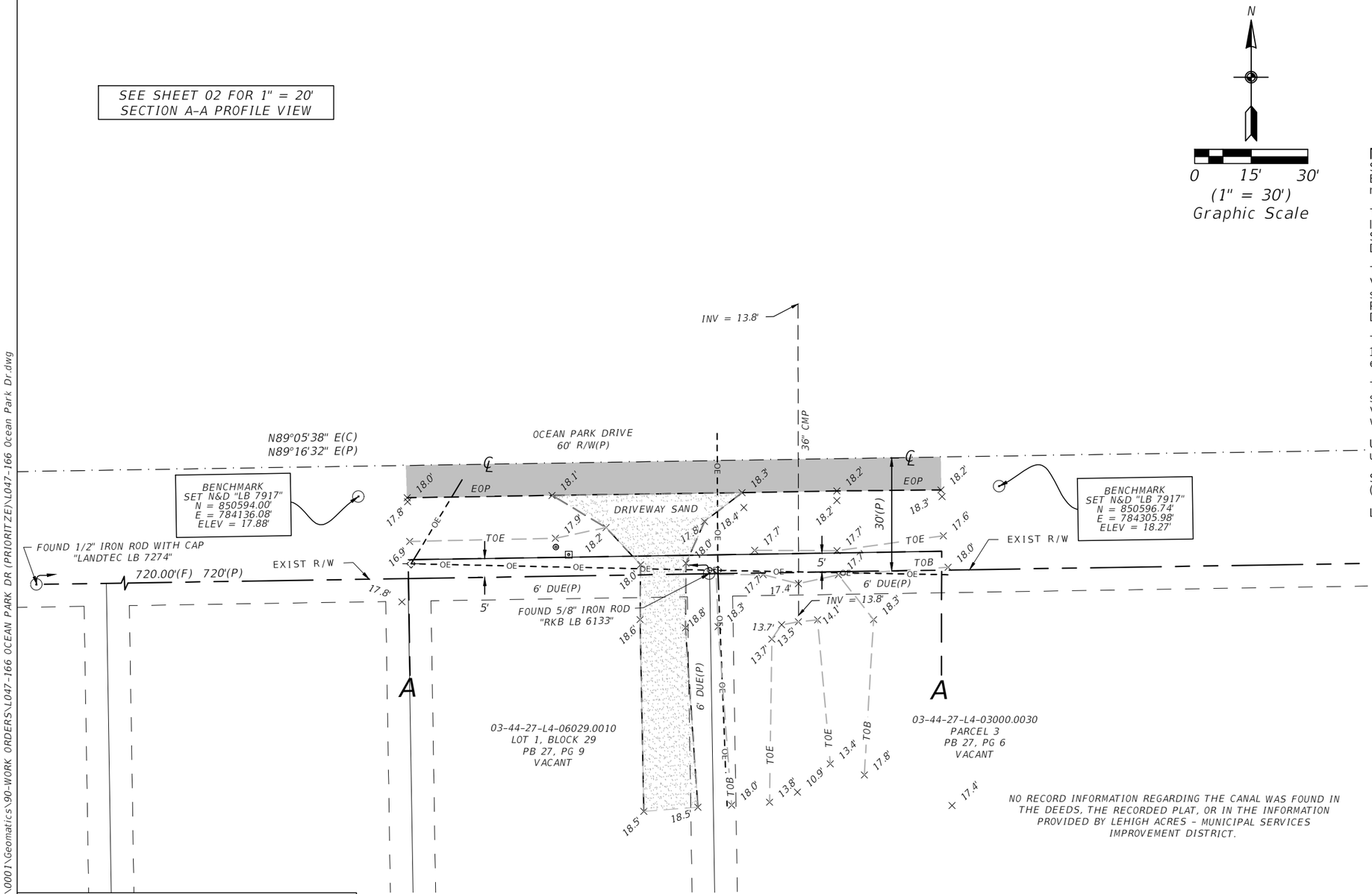
1. Provide fiber optic splice boxes with cable hanger racks designed to support cables and splice enclosures.
2. Install a 1'-0" wide (Min.) concrete apron around all boxes using Class NS concrete. Slope the apron away from the box.
3. Where multiple pull boxes are placed side by side, maintain at least 8" between the pull boxes.
4. Rectangular boxes shown, others similar.

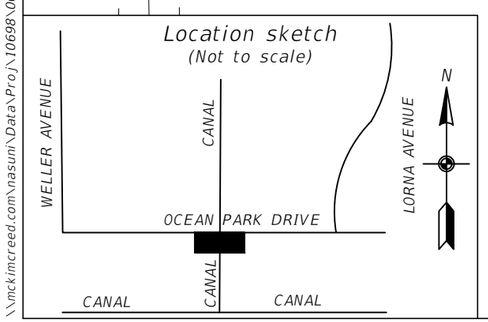
9/10/2024 2:16:11 PM

LAST REVISION	REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	PULL AND SPLICE BOXES	INDEX	SHEET
11/01/18					635-001	1 of 1

\\mckimcreed.com\nasuni\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L047-166 OCEAN PARK DR (PRIORITIZE)\L047-166 Ocean Park Dr.dwg

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW





LEGEND:

(P)	= PER PLAT	INV	= INVERT ELEVATION
(C)	= CALCULATED	N&D	= NAIL AND DISK
(F)	= FIELD MEASURED	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
CB	= CATCH BASIN	OR	= OFFICIAL RECORDS BOOK
Δ	= DELTA ANGLE	PB	= PLAT BOOK
℄	= CENTER LINE	PG	= PAGE
CONC	= CONCRETE	R/W	= RIGHT OF WAY
CMP	= CORRUGATED METAL PIPE	RCP	= REINFORCED CONCRETE PIPE
CPP	= CORRUGATED PLASTIC PIPE	RNG	= RANGE
DUE	= DRAINAGE AND UTILITY EASEMENT	S/W	= SIDEWALK
ELEV	= ELEVATION	SEC	= SECTION
EOP	= EDGE OF PAVEMENT	TOB	= TOP OF BANK
EXIST	= EXISTING	TOE	= TOE OF SLOPE
FIRC	= FOUND IRON ROD AND CAP	TWP	= TOWNSHIP
INST#	= INSTRUMENT NUMBER	(TYP)	= TYPICAL

= FOUND MONUMENT
OE = OVERHEAD UTILITY LINE
+20.0 = SPOT ELEVATION
= TELEPHONE PEDESTAL
= POST
= ELECTRICAL POLE

Topographic Survey of a Subject Project Site

LYING WITHIN

Section 3, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida

NOTES:

Survey based on the plat of Unit 6 - Greenbriar as recorded in Plat Book 27 Page 9, Public Records of Lee County, Florida and existing monumentation.

This survey prepared as a Topographic Survey for the purpose of locating the features within and adjacent to the Lehigh Acres Municipal Services Improvement District-managed facility South of Ocean Park Drive between Weller Avenue and Lorna Avenue.

The elevations shown hereon are referenced to the North American Vertical Datum of 1988 (NAVD 1988). All elevations are reported in US survey feet and decimals thereof and are based upon the Florida Permanent Reference Network (FPRN) stations maintained by the Florida Department of Transportation.

The subject site lies within Zone "X" per FEMA insurance rate map 125124 0336F (Published 08/28/2008), therefore has no base flood elevation.

The FEMA flood zone information indicated hereon is based on the maps supplied by the Federal Government. This flood information must be verified with all permitting regulatory entities prior to commencing any work or application dependent on said flood information.

Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 12/17/2025

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Ocean Park Drive, Lehigh Acres

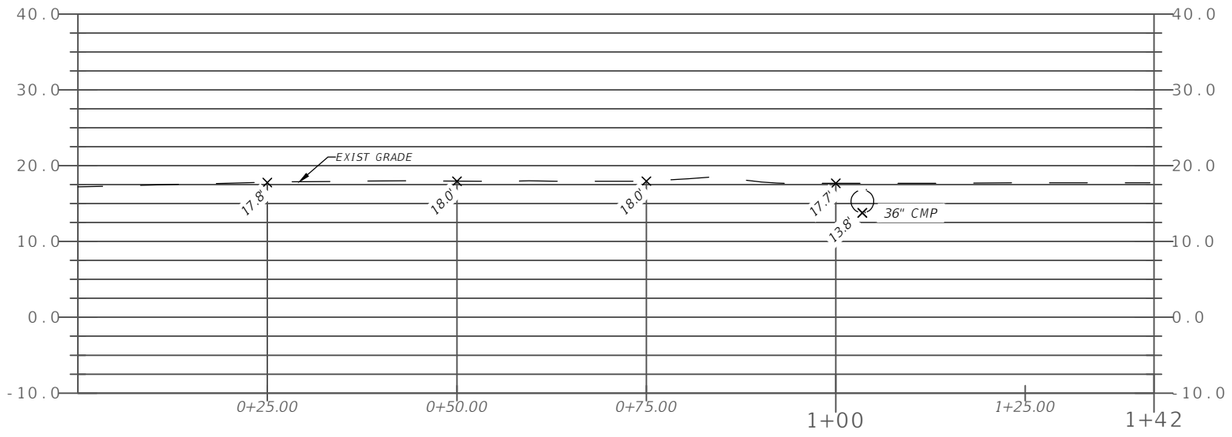
TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L047-166 Ocean Park Dr.dwg	106981-1/35	106980001-L047

Survey date:	Drawn by:	Checked by:	Sheet No.:
12/17/2025	KB	TJH	01 OF 02

Topographic Survey of a
Subject Project Site
Section 3, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Ocean Park Drive, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L047-166 Ocean Park Dr.dwg	106981-1/35	106980001-L047

Survey date:	Drawn by:	Checked by:	Sheet No.:
12/17/2025	KB	TJH	02 OF 02

\\nckimcreed.com\nasuni\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L047-166 OCEAN PARK DR (PRIORITIZE)\L047-166 Ocean Park Dr.dwg

All lots & parcels subject to a 6 foot Utility and Drainage Easement on both sides, front and back.

All corner lot radii are 25 feet except as shown and the lot dimensions are to the straight line intersections, except where arc distances are shown.

PLAT OF

UNIT 3 - GREENBRIAR

SECTION 3, TWP. 44 S., RGE. 27 E.

A SUBDIVISION OF

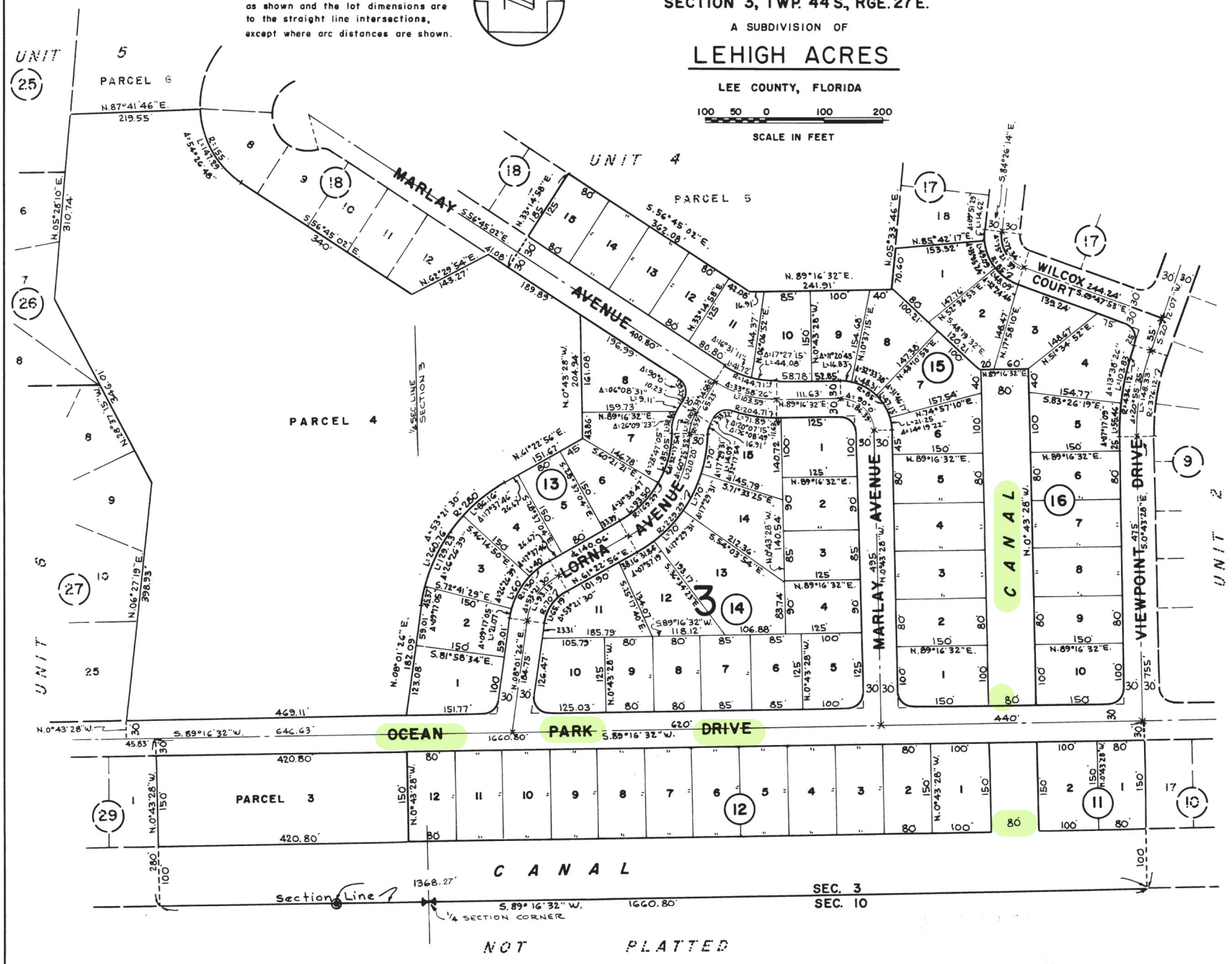
LEHIGH ACRES

LEE COUNTY, FLORIDA

100 50 0 100 200

SCALE IN FEET

PLAT BOOK 27 PAGE 4



SHEET 6 OF 82

PART IV #26-70

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ Approved ___ Denied ___

District Manager: _____ Date: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Low Flow Canal (47-3-7) at 166 Ocean Park Dr., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Able Canal (47-33-1), along the east side of Lincoln Ave., between E. 3rd St. & E. Jasmine Road, in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-71

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-71 is approved according to the plans submitted April 28th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 215.26' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Lincoln Ave.

PART I

DATE SUBMITTED: 04 - 28 - 26

PERMIT #: 26 - 77

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: TEP-OPCO, LLC **PHONE #:** (502)552-2733

PROJECT NAME: U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 120 LINCOLN AVE					
Mailing Address:					
City:	LEHIGH ACRES	**State:**	FL	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary):*

3	3	-	4	4	-	2	7	-	L	3	-	0	4	0	1	5	-	0	1	1	0
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				

Brief description of proposed project:

Application for:

Directional bore placing 215.26' of (2) 1.25" HDPE SDR 11 Conduit Equipped with (1) 288-CT Microfiber Optic cable under Able Canal along the East side of Lincoln Ave between E Jasmine Rd and Greenwood Ave.

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$ 3,978.90 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	Lumos Fiber of Florida, LLC						
Mailing Address:	**Street:**	4100 Mendenhall Oaks Parkway, Suite 300					
City:	High Point	**State:**	NC		**Zip:**	27265	
Phone No.	**Area Code:**	515	**Number:**	306-3403	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	william.kiefer@lumosfiber.com						

B. **Relationship of applicant to property*:**

☐ **Owner*** ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee***

☐ **Contract Purchaser*** ☑ **Other (indicate)*** Utility

C.

Name of Developer:						
Mailing Address:	**Street:**					
City:		**State:**		**Zip:**		
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:						

D.

Name of Authorized Agent(s):	TEP OPCO, LLC.					
Mailing Address:	**Street:**	5906-A Breckenridge Pkwy				
City:	Tampa	**State:**	FL	**Zip:**	33610	
Phone No.	**Area Code:**	(502)	**Number:**	552-2733	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:	FL-permitting@tepgroup.net					

E.

Name of Property Owner:						
Mailing Address:	**Street:**					
City:		**State:**		**Zip:**		
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:						

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

PRIMARY STRAP NUMBER: ☐☐-☐☐-☐☐-☐☐-☐☐☐☐-☐☐☐☐

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership
N/A	

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock
N/A	

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest
N/A	

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest
N/A	

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest
N/A	

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest
N/A	

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

William Kiefer
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 28th day of April (m), 2026 (y), by William Richter who is personally know to me or has produced _____ as identification.

ANNA M. BAKER
MY COMMISSION # HH 582094
EXPIRES: August 13, 2028

Anna M. Baker
SIGNATURE OF NOTARY PUBLIC

Anna M. Baker
PRINTED NAME OF NOTARY PUBLIC

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

ENGINEER

Name:	TEP-OPCO, LLC JOSH CARDEN						
Mailing Address:	326 Tyron Road						
City:	Raleigh	**State:**	NC			**Zip:**	27603
Business No.	**Area Code:**	(336)	**Number:**	214 -2099		**Ext.**	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	McKim & Creed						
Mailing Address:	5701 Division Drive, Suite A						
City:	Fort Myers	**State:**	FL			**Zip:**	33905
Business No.	**Area Code:**	(239)	**Number:**	275 - 8875		**Ext.**	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
	2	**Permit Application** (PARTS I & II)
	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
	1	**Check for appropriate Permit Fees** made out to LA-MSID.

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/11/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-71	Lumos Bore Under Able Canal (47-33-1) At Lincoln Ave.	Total Fee $3,978.90
	Permit Fee: $750 + $15 x 215.26' R/W = $750 + 3,228.90	Due From Deposit
	Total Fee = $3,978.90	
		TOTAL $3,978.90

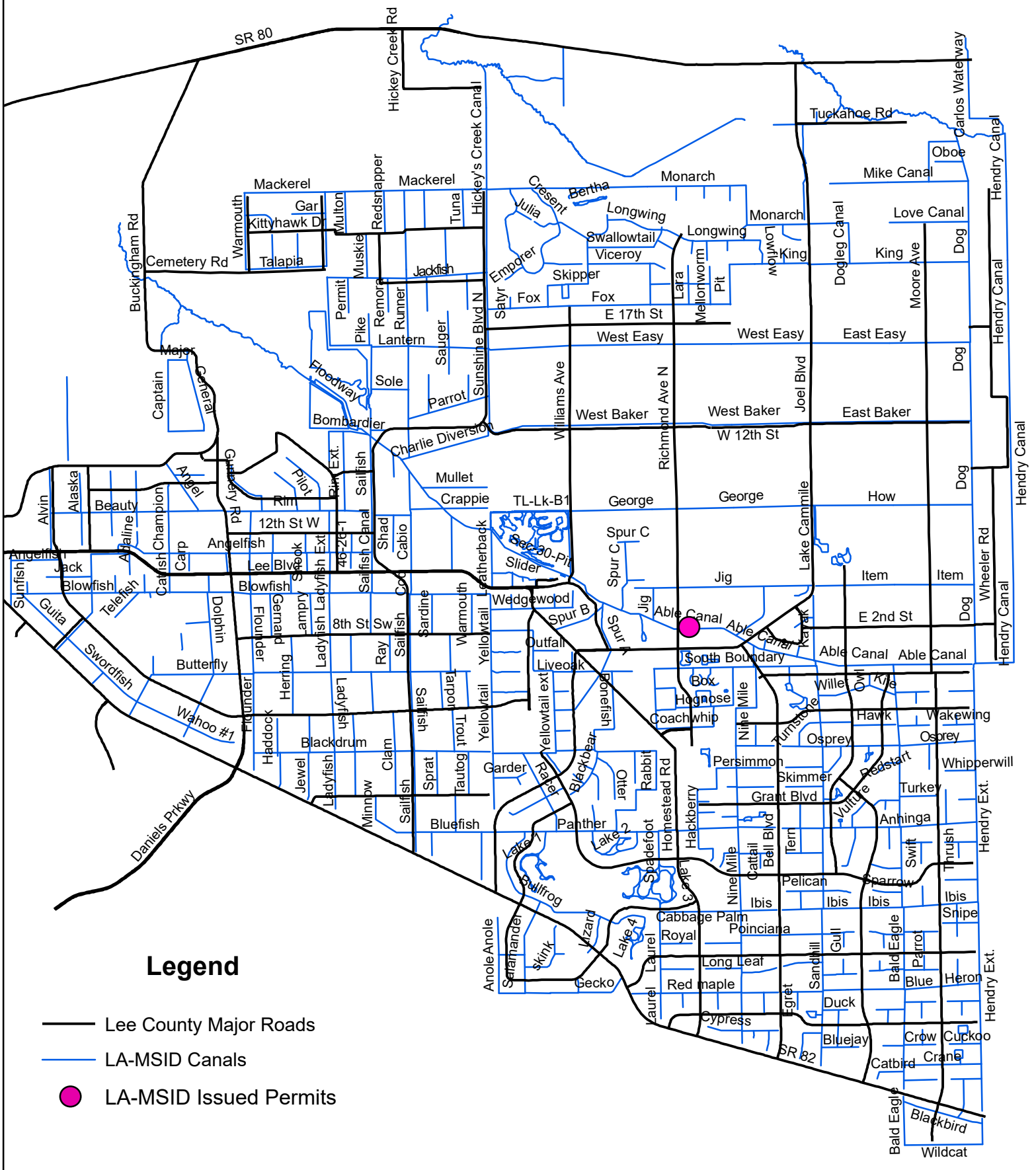
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/11/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs. Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry.**

*The CR account will need to be changed based on the customer. See accounting to setup new customer deposit accounts.

Permit # 2026-71

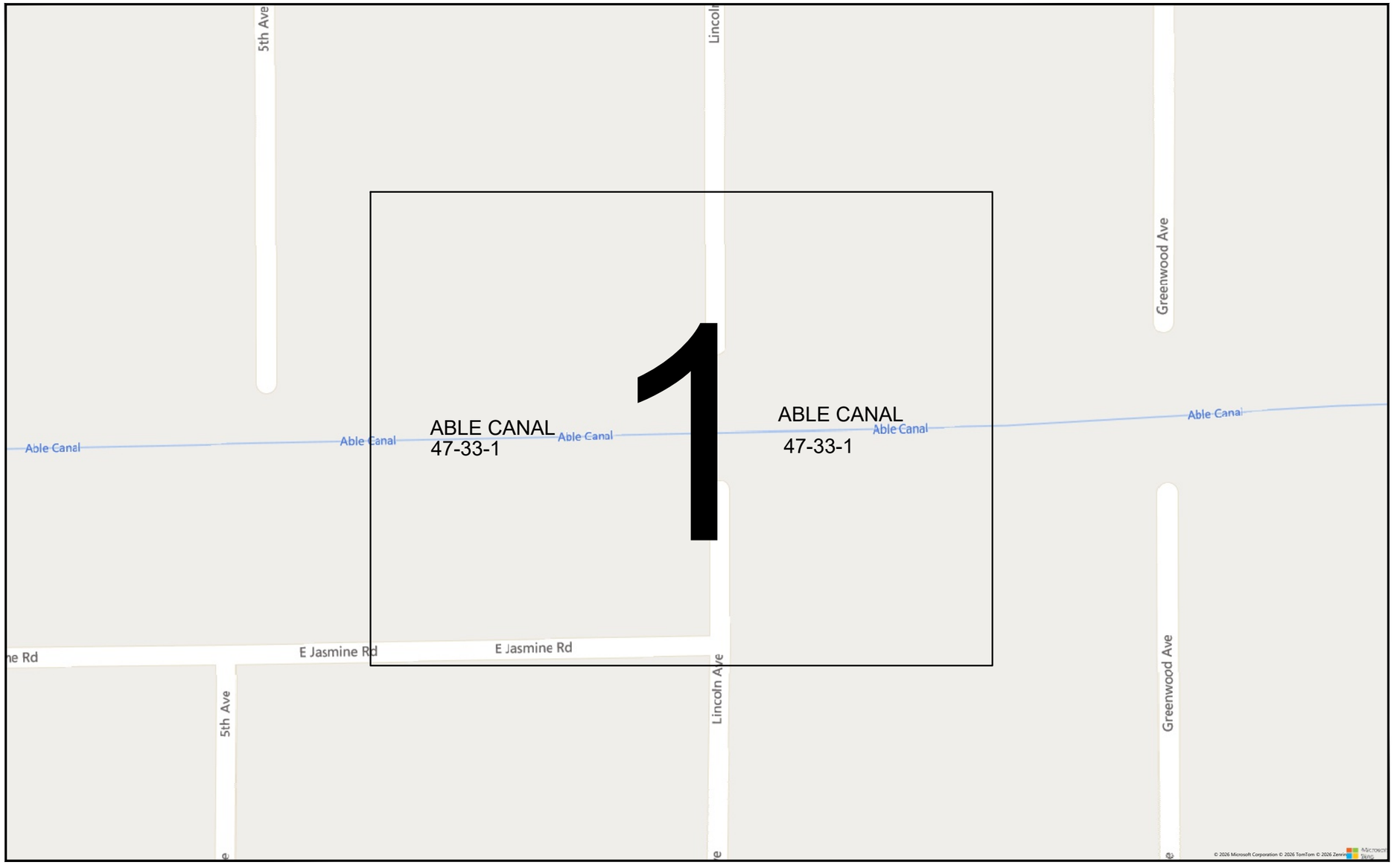


Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1

120 LINCOLN AVE, LEHIGH ACRES, FL 33936 (26.606745, -81.622002)



Know what's below
Call before you dig.

PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 400' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 288-CT MICROFIBER OPTIC CABLE. (2) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

SHEET INDEX

A - COVER SHEET
B - SOW & CONTACTS
C - LEGEND
D1-D2 - GENERAL NOTES
E - CONSTRUCTION NOTES
F-H - TYPICALS
1- 1 - PROJECT SHEETS
1A - PROFILE VIEW
I1 - I2 - IMAGES

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, PLLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, PLLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEPDB OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY. THESE DRAWINGS ARE INTENDED TO DEPICT FIBER OPTIC CABLES, CONDUITS, AND RELATED INFRASTRUCTURE WITHIN THE PUBLIC RIGHT-OF-WAY (R/W) OR AREAS WITH VALID, RECORDED EASEMENTS OR LEASES, HOWEVER R/W LOCATIONS ARE BASED SOLELY ON GEOGRAPHIC INFORMATION SYSTEMS (GIS) DATA FROM THE LOCAL JURISDICTION. SURVEYS TO VERIFY R/W OR PROPERTY BOUNDARIES WERE NOT PERFORMED. WHERE INSTALLATION ROUTES EXTEND BEYOND THE R/W, THE UTILITY OWNER/OPERATOR IS SOLELY RESPONSIBLE FOR SECURING AND PROVIDING ALL NECESSARY EASEMENTS, LEASES, OR PROPERTY RIGHTS PRIOR TO CONSTRUCTION. CONTRACTORS SHALL RELY ON THE UTILITY OWNER/OPERATOR'S DOCUMENTATION AND ARE RESPONSIBLE FOR ENSURING THAT CONSTRUCTION OCCURS ONLY WITHIN AUTHORIZED AREAS. TEP, THE ENGINEER, DESIGNER, AND CREATOR OF THESE DRAWINGS ASSUME NO RESPONSIBILITY OR LIABILITY FOR UNAUTHORIZED PLACEMENT OF UTILITIES OUTSIDE THE PUBLIC R/W OR ON PRIVATE PROPERTY WITHOUT PROPER LEGAL AUTHORIZATION. ALL INSTALLATIONS MUST COMPLY WITH APPLICABLE LAWS AND REGULATIONS.

TEP OPCO, LLC
5906-A Breckenridge Pkwy, Tampa, FL 33610
FL COA# 31011
Shaine Herrick - Project Manager
sherrick@tepgroup.net

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush
jason.bush@lumosfiber.com
Phone: (850) 428-1313

REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

This item has been digitally signed and sealed by JOSHUA H. CARDEN on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SHEET TITLE:
COVER PAGE

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38568
DESCRIPTION:	120 LINCOLN AVE
DRAWING NAME:	U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1
SHEET:	A of 1

CONFIDENTIAL/PROPRIETARY

SCOPE OF WORK

- BURIED PLACEMENT OF 400' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 288-CT MICROFIBER OPTIC CABLE. (2) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
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ENGINEERING COMPANY

TEP OPCO, LLC
5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

DIRECTOR - OSP OPERATIONS:
ALEX MORA
OFFICE : 704-751-1123
AMORA@TEPGROUP.NET

PROJECT MANAGER:
SHAINE HERRICK
SHERRICK@TEPGROUP.NET

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

COMCAST
CHAD EVENER
(941) 356-1564

CROWN CASTLE NG
FIBER DIG TEAM
(800) 654-3110

LEE COUNTY ELECTRIC CO-OP
TOM BAILEY
(239) 656-2414

LEE COUNTY SIGNAL DEPARTMENT
LEE COUNTY DOT TRAFFIC
(239) 533-9500

SUMMIT BROADBAND
MICHELLE DANIEL
(407) 996-1183

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LUMOS FIBER OF FLORIDA, LLC
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FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

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TEP

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TAMPA, FL 33610

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, PLLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, PLLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEPDB OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY. THESE DRAWINGS ARE INTENDED TO DEPICT FIBER OPTIC CABLES, CONDUITS, AND RELATED INFRASTRUCTURE WITHIN THE PUBLIC RIGHT-OF-WAY (R/W) OR AREAS WITH VALID, RECORDED EASEMENTS OR LEASES, HOWEVER R/W LOCATIONS ARE BASED SOLELY ON GEOGRAPHIC INFORMATION SYSTEMS (GIS) DATA FROM THE LOCAL JURISDICTION. SURVEYS TO VERIFY R/W OR PROPERTY BOUNDARIES WERE NOT PERFORMED. WHERE INSTALLATION ROUTES EXTEND BEYOND THE R/W, THE UTILITY OWNER/OPERATOR IS SOLELY RESPONSIBLE FOR SECURING AND PROVIDING ALL NECESSARY EASEMENTS, LEASES, OR PROPERTY RIGHTS PRIOR TO CONSTRUCTION. CONTRACTORS SHALL RELY ON THE UTILITY OWNER/OPERATOR'S DOCUMENTATION AND ARE RESPONSIBLE FOR ENSURING THAT CONSTRUCTION OCCURS ONLY WITHIN AUTHORIZED AREAS. TEP, THE ENGINEER, DESIGNER, AND CREATOR OF THESE DRAWINGS ASSUME NO RESPONSIBILITY OR LIABILITY FOR UNAUTHORIZED PLACEMENT OF UTILITIES OUTSIDE THE PUBLIC R/W OR ON PRIVATE PROPERTY WITHOUT PROPER LEGAL AUTHORIZATION. ALL INSTALLATIONS MUST COMPLY WITH APPLICABLE LAWS AND REGULATIONS.

REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

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Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SHEET TITLE:
SOW & CONTACTS

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38568
DESCRIPTION:	120 LINCOLN AVE
DRAWING NAME:	U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1

SHEET:
B of 1

CONFIDENTIAL/PROPRIETARY

LEGEND

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL / DESCRIPTION

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F		
	IN:	0
	OUT:	0

SEQUENTIAL CALLOUT

#F		
	IN:	0
	TAIL:	0

SEQUENTIAL IN TAIL CALLOUT

#F		
	TAIL:	0
	OUT:	0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'–0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT
FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'–0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT
FROM 1 TO 6 ATTACHMENTS

lumos

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TEP OPCO, LLC — FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

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SHEET TITLE: LEGEND

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38568
DESCRIPTION:	120 LINCOLN AVE
DRAWING NAME:	U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1
SHEET:	C of 1

CONFIDENTIAL/PROPRIETARY

GENERAL NOTES

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

lumos

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SHEET TITLE:
GENERAL NOTES

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38568
DESCRIPTION:	120 LINCOLN AVE
DRAWING NAME:	U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1

SHEET:
D1 of 1

CONFIDENTIAL/PROPRIETARY

GENERAL NOTES

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

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SHEET TITLE:
GENERAL NOTES

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38568
DESCRIPTION:	120 LINCOLN AVE
DRAWING NAME:	U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1

SHEET:
D2 of 1

CONFIDENTIAL/PROPRIETARY

FDOT CONSTRUCTION NOTES

1. Aerial crossings of State roads involving temporary lane closures are to be done between the hours of 12:00 am and 5:00 am Monday through Thursday unless previously approved by the Department.

2. When directional bore is the method of installation, a minimum 24-inch separation shall be maintained from all existing utilities unless supervised, ITS/ATMS lines, and storm drain systems while maintaining the minimum required depth under pavement or non-paved ground.

3. If the proposed utility cannot be installed per the approved permitted plan and by FDOT specifications, a revised plan must be provided to the Department for review and approval prior to the installation of products or materials at the given locations where conflicts occur.

4. Any new proposed plan shall include cross sections, plan views and profiles of the State road adequately reflecting all right-of-way features including but not limited to existing utilities, storm drain systems and any above or below ground appurtenances where applicable.

5. No pedestrian pathway is to be removed, blocked, or disturbed without having a sufficient designated temporary pedestrian pathway with all appropriate pedestrian maintenance of traffic signs (Index 660) in-place prior to pathway being affected.

6. All temporary pedestrian pathways must be firm and unyielding.

7. Any sidewalk disturbed will be replaced by section within 72 hours to FDOT specifications.

8. Any sidewalk fronting the property that is cracked, damaged or unstable and is creating an ADA trip hazard must be replaced by section, using Standard #520-001, #522-002, and #522-001 for the construction of sidewalk and meet current ADA Standards. All concrete placed in the right of way shall be a minimum of 6" thick, FDOT Certified Class 1 non-structural, 57 stone, 2500 PSI concrete, with fiber mesh material from a FDOT approved plant.

9. FDOT reserves the right to make adjustments to any permitted method of installation, scope of work, and restoration that may be required to positively support life, safety, and environmental well-being of all users of the transportation system.

10. The Permittee shall notify the FDOT of date of completion, request a final inspection, and a Notice of Final Acceptance.

11. All construction and/or maintenance in the FDOT right-of-way shall conform to the Federal Manual on Uniform Traffic Devices (MUTCD), the FDOT Roadway and Traffic Design Standards, the Standard Specifications for Road and Bridge Construction, the Florida Design Manual, and the Drainage Manual.

12. Prior to removal of existing curb or driveway, the edge of travel shall be sawcut to avoid damaging the existing roadway asphalt. All concrete to be removed in FDOT right-of-way shall be sawcut and removed from the nearest joint.

13. No lane closure of any State roadway is allowed without a minimum of two (2) weeks advance notification and approval from FDOT.

14. Lane closures must be limited to Sunday through Thursday 8:00 pm to 5:30 am unless otherwise approved by FDOT.

15. Any sidewalk damaged because of work being performed in association with the Permittee and Contractor shall be removed and replaced with 6-inch thick Class 1 non-structural, 2,500 PSI with fiber mesh.

16. Open cutting of any roadway, driveway or sidewalk outside those limits identified within the permit are not allowed without prior approval of by FDOT.

17. The Contractor shall have an authorized person available at/or near the work site on a 24-hour basis, 7 days a week in order to address emergency issues associated with the project.

18. No stockpiling, storing or semi-permanent use of the right-of-way is authorized unless specifically identified within the permit.

19. No work shall be performed during the weeks of any State or Federal holiday unless otherwise approved in writing by FDOT.

20. The permitted work schedule is defined as Monday through Friday 7:00 am to 5:30 pm unless otherwise noted within the permit. Any work desired outside of this period must be requested in advance and approved before working the alternate schedule.

21. When work is associated with roadway modifications and/or site development, the Contractor is required to have a preconstruction meeting with the FDOT inspector two weeks prior to any construction beginning within the right-of-way.

22. All work performed under this permit within the right-of-way is to be scheduled with FDOT inspection staff.

23. Roadway restoration shall utilize 100 PSI excavatable flowable fill material and asphalt placed within the State right-of-way shall be placed full-depth, two 2.5-inch lifts of SP 12.5, two 1.5-inch lifts of SP 9.5. Typical sections will need to be provided within the plans for the pavement placement. A stair step method should be incorporated, prior to placing asphalt, to avoid vertical joints. Milling of the patch may be required based on the patched surface performance. The milling shall be utilized for surface leveling to a thickness equal to or greater than the existing friction coarse material. The milling limits are 50-foot of the patch along the longitudinal path of the lane, full lane width and to include any adjacent bike lanes, shared path or urban shoulder sections.

24. Any disruptions to any permeable pedestrian way and bike lane are to be restored as work continues. All patches shall be full width from outside edge of pedestrian path to white line edge of travel lane with stair step (staggered) joints. Restoration to include backfill with existing sub-grade material and #57 stone as base material (compact in 6-inch lifts) to bottom of existing pervious asphalt base, followed by permeable design mix (if available) or FC-5 (Friction Course) mix with a minimum 2-inch and maximum 3-inch lifts. Maintain ingress/egress on all drives and side streets during construction.

25. Any bore pit greater than five (5) feet in depth requires a Sheeting and Shoring Plan as well as a Dewatering Plan.

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TAMPA, FL 33610

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TEP OPCO, LLC FL COA# 31011

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DESCRIPTION:	120 LINCOLN AVE
DRAWING NAME:	U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1

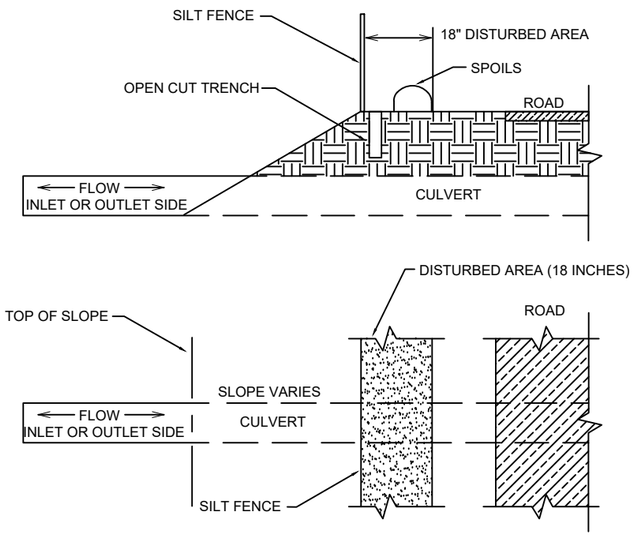
SHEET:
E of 1

CONFIDENTIAL/PROPRIETARY

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

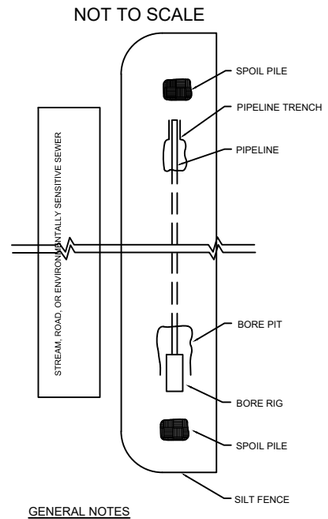
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

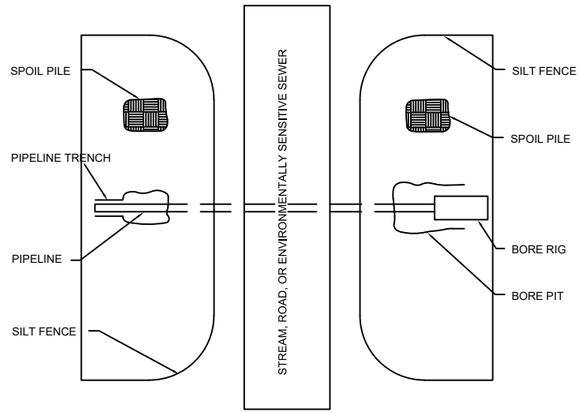


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

NOT TO SCALE



GENERAL NOTES

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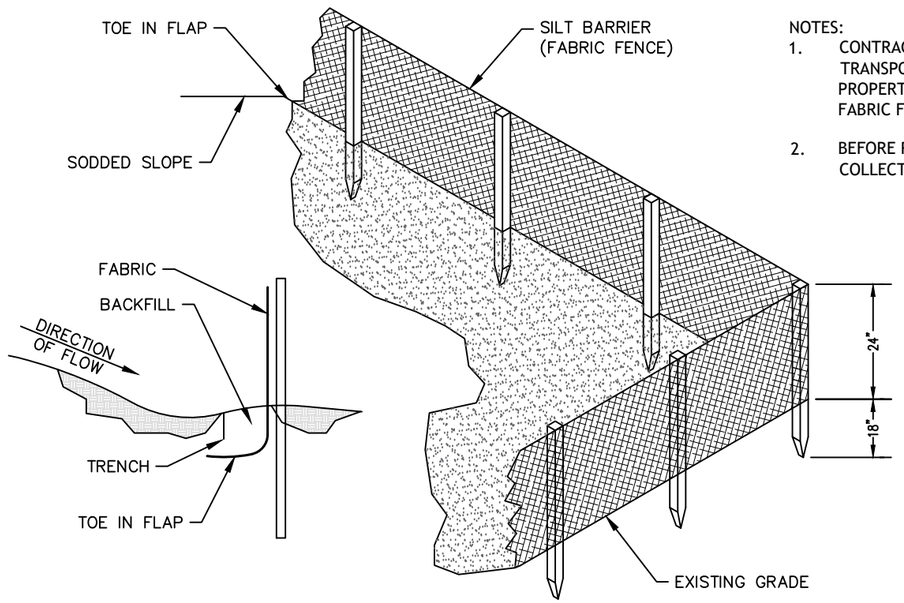
FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

lumos

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PROJECT ENGINEER:	DARIA COSTIN
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DESCRIPTION:	120 LINCOLN AVE
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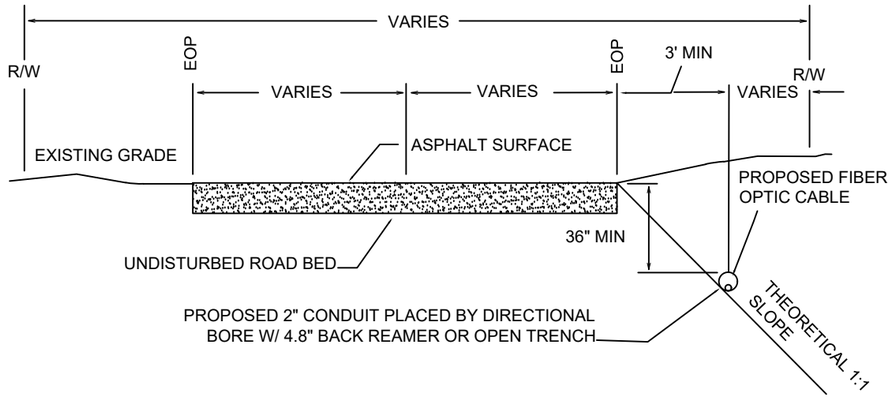
SHEET: F of 1

CONFIDENTIAL/PROPRIETARY

TYPICALS

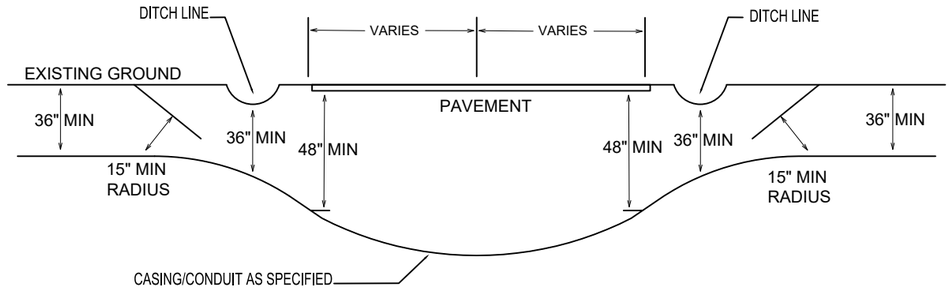
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



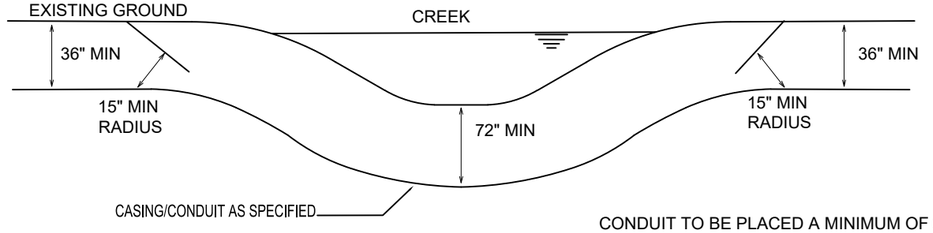
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

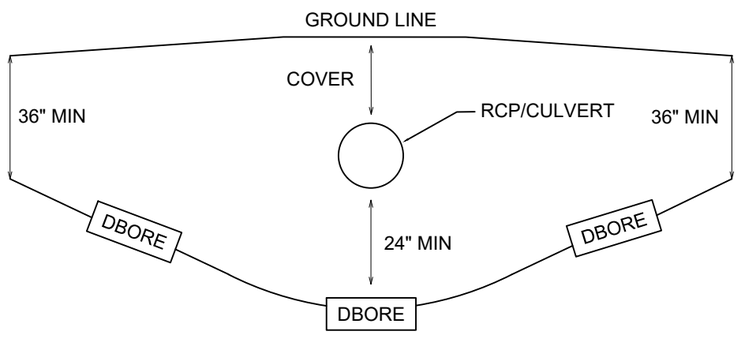
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 6 FEET BELOW CREEK BED

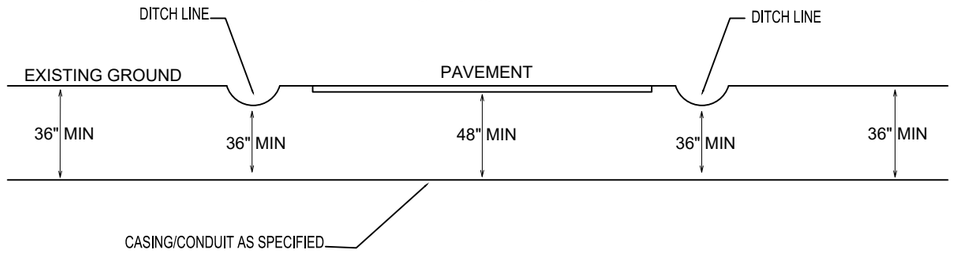
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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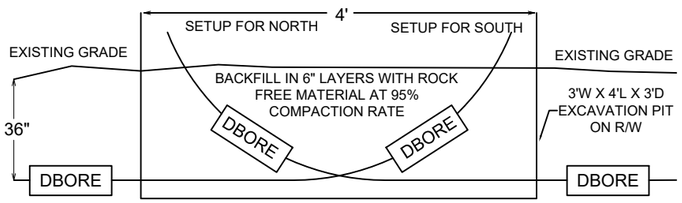
SHEET: G of 1

CONFIDENTIAL/PROPRIETARY

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

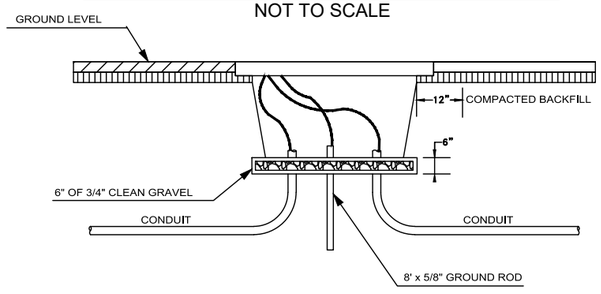


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

PULL BOX HANDHOLE

NOT TO SCALE



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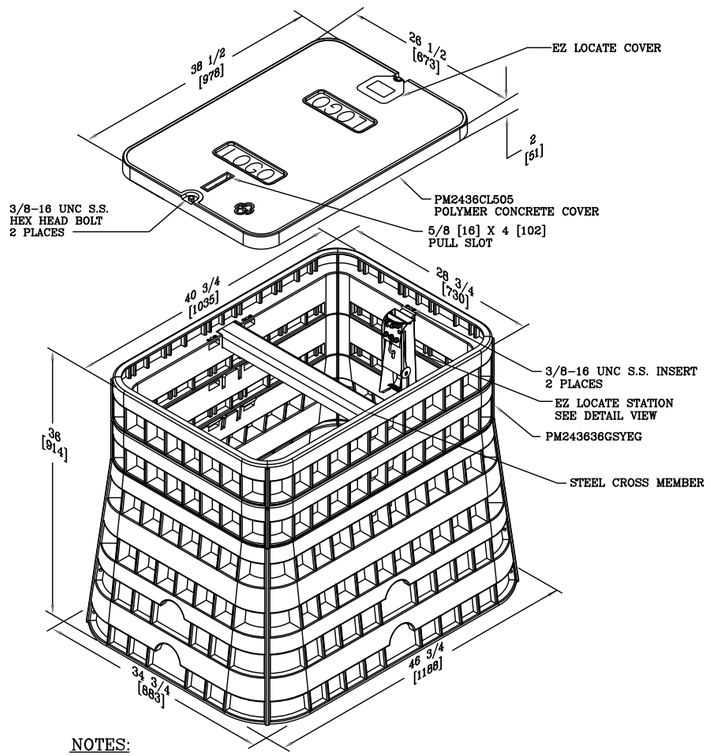
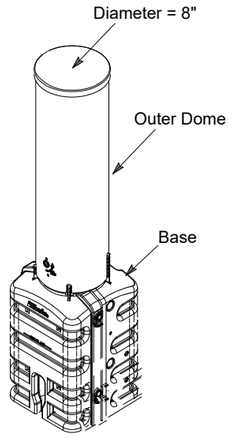


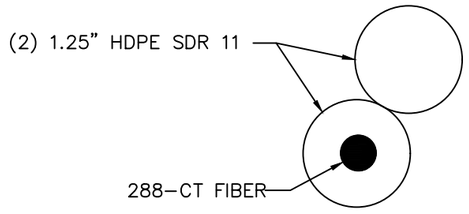
NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

BDO204-EG



PIPE DETAIL



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TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

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SHEET TITLE: TYPICALS

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38568
DESCRIPTION:	120 LINCOLN AVE
DRAWING NAME:	U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1

SHEET: H of 1

CONFIDENTIAL/PROPRIETARY

SPARE 1.25" DUCTS FOR FUTURE USE

BENCHMARK
SET N&D "LB 7917"
N = 826741.03'
E = 779659.39'
ELEV = 23.40'
NAVD 88

MOVED
GRAPHICALLY TO
FIT SHEET

33-44-27-L2-06026.0010
LOT 1, BLOCK 26
PB 15, PG 48
VACANT

33-44-27-L1-06027.0220
LOT 22, BLOCK 27
PB 15, PG 48
OCCUPIED

(1) PROMARK DOME MARKER POST

END PERMIT

PLACE:
- (1) 24"x36"x36" HANDHOLE
- (1) ⅝" X 8' GROUND ROD
- 150' SLACK LOOP

BENCHMARK
SET N&D "LB 7917"
N = 826557.78'
E = 779660.00'
ELEV = 23.86'
NAVD 88

POWER POLE

LIGHT POLE

PROPOSED PERMANENT UTILITY MARKER
(AT LEAST 4' HIGH) WITH UTILITY COMPANY
CONTACT INFORMATION CLEARLY MARKED ON IT

ABLE CANAL
47-33-1

215.26'

DIRECTIONAL BORE:
- (2) 1.25" HDPE SDR 11 CONDUIT
- (1) 288-CT FIBER OPTIC CABLE
- MINIMUM DEPTH UNDER CANAL BED = 120"
- MINIMUM TOTAL DEPTH = 276"

ABLE CANAL
47-33-1

ABLE CANAL
215.26'
RESERVED
FOR CANAL R/W
PB 15, PG 48

EXISTING WATER
ELEV = 15.0'

18" CPP
INV = 19.5'

18" CPP
INV = 20.4'

INV = 19.7'

INV = 21.4'

PROPOSED PERMANENT UTILITY MARKER
(AT LEAST 4' HIGH) WITH UTILITY COMPANY
CONTACT INFORMATION CLEARLY MARKED ON IT

LIGHT POLE

NE CORNER
LOT 11 BLOCK 15
FIRC 1/2" "LB 6449"

N88°48'20"E
197.42'(F)(P)

N 88°48'20" E
208.71'(C)(P)

NW CORNER
LOT 2 BLOCK 8
FOUND IRON ROD 5/8"
NO IDENTIFICATION

FCM 4"X4" W/ PIN
NO IDENTIFICATION

33-44-27-L3-04015.0110
LOT 11, BLOCK 15
PB 15, PG 48
OCCUPIED

33-44-27-L4-04008.0010
LOT 1, BLOCK 8
PB 12, PG 52
OCCUPIED

BEGIN PERMIT

PLACE:
- (1) 24"x36"x36" HANDHOLE
- (1) ⅝" X 8' GROUND ROD
- 150' SLACK LOOP

(1) PROMARK DOME MARKER POST

FOUND 5/8" IRON ROD
NO IDENTIFICATION

LIGHT POLE

LINCOLN AVENUE
50' R/W(P)
NO RECORDED CENTERLINE

E JASMINE RD

0 10' 20' 30' 40' 50'
SCALE: 1"=50'

N

Know what's below
Call before you dig.

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TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN
LICENSE
No 83511
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

April 28th, 2026

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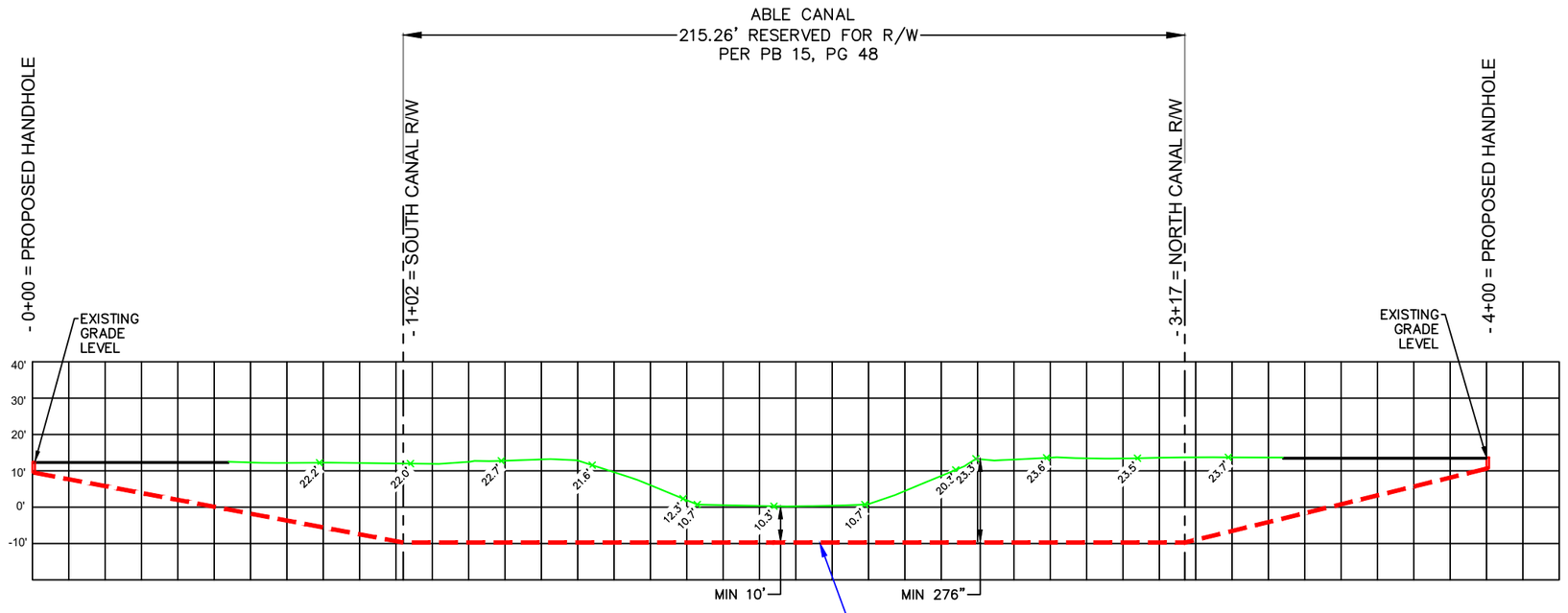
SHEET TITLE:
PROJECT SHEET

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38568
DESCRIPTION:	120 LINCOLN AVE
DRAWING NAME:	U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1
SHEET:	1 of 1

CONFIDENTIAL/PROPRIETARY

SUB-GRADE VERTICAL PROFILE VIEW
LINCOLN AVE
FACING WEST



UTILITY NOTE:

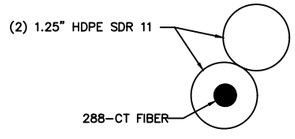
EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

NOTE:

BORE MUST BE 10' BELOW THE LOWEST PIPE INVERT OR THE CANAL BOTTOM, WHICHEVER IS LOWEST, FOR THE ENTIRE 215.26' WIDE CANAL RIGHT OF WAY.

ALL CANAL RIGHT OF WAY THAT IS DISTURBED MUST BE RESTORED WITH SOD AND MAINTAINED UNTIL WELL ESTABLISHED. NO SEEDING WILL BE ALLOWED.

PIPE DETAIL



NOTE:
BORE TO MAINTAIN A MINIMUM DEPTH OF 48" BELOW GRADE AND A MINIMUM DEPTH OF 48" BELOW TOP OF ROADWAY. A MINIMUM OF 30" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES, ITS/ATMS, AND STORM DRAIN SYSTEMS UNLESS SUPERVISED. NO BACK REAMER REQUIRED DUE TO SIZE OF 4" BIT. SOFT DIGS &/OR POTHOLING MAY BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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0 10' 20' 30' 40'
SCALE: 1"=40'

N

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TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

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PROJECT SHEET

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PROJECT NUMBER:	U38568
DESCRIPTION:	120 LINCOLN AVE
DRAWING NAME:	U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1

SHEET:
1A of 1

CONFIDENTIAL/PROPRIETARY

STREET LEVEL VIEW
STA 1+00
FACING NORTH

lumos

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SCALE = N.T.S.

N

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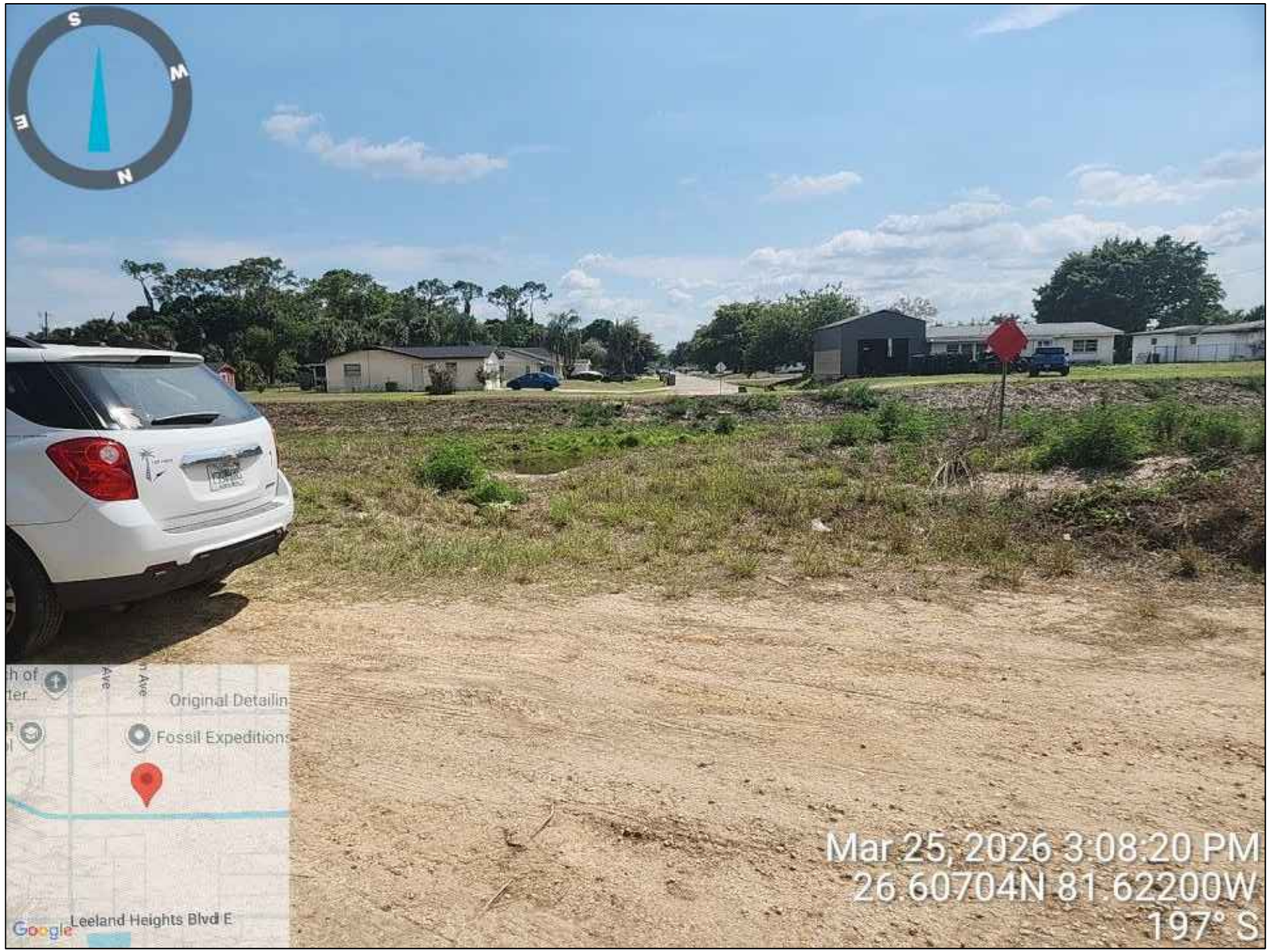
SHEET:	I1 of 1

CONFIDENTIAL/PROPRIETARY

STREET LEVEL VIEW
STA 3+25
FACING SOUTH



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N

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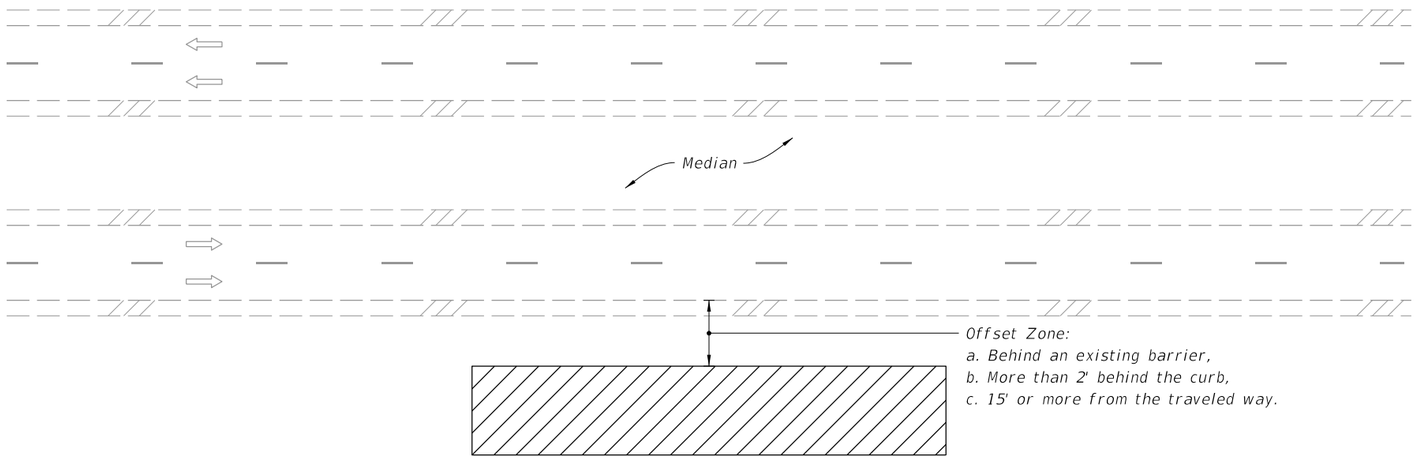
DESCRIPTION:	120 LINCOLN AVE
DRAWING NAME:	U38568 - ABLE CANAL - 120 LINCOLN AVE-LA-MSID-1

SHEET: I2 of 1

CONFIDENTIAL/PROPRIETARY



MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR

NOTES:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.

2. Use Index 102-602 when the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the Offset Zone in any one hour period.

3. Use Index 102-660 when Work Area encroaches a Sidewalk.

SYMBOLS:

Work Area

Lane Identification and Direction of Traffic

9/10/2024 10:45:01 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/20			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER	102-601	1 of 1

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

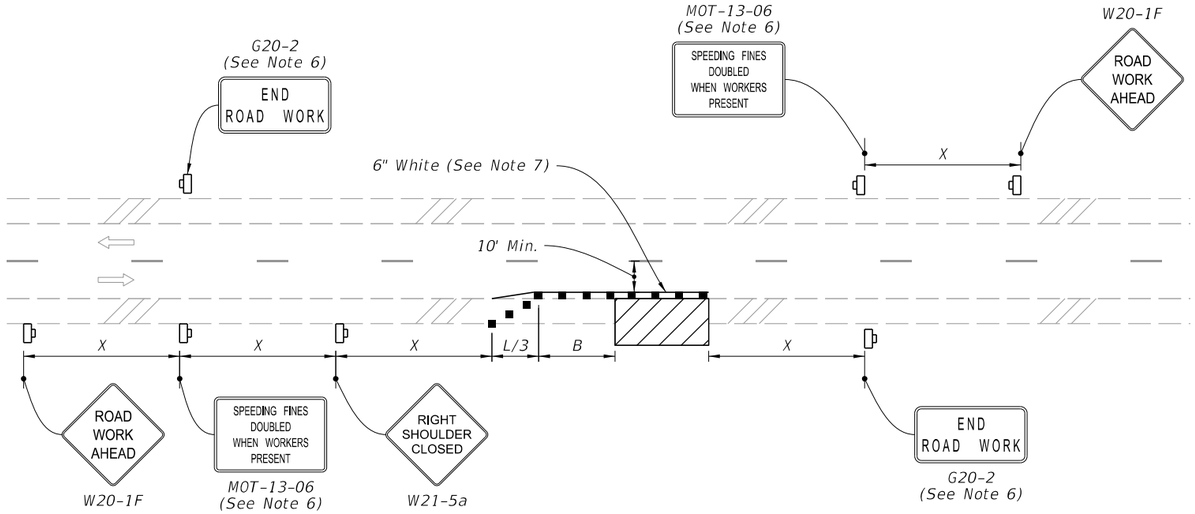
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

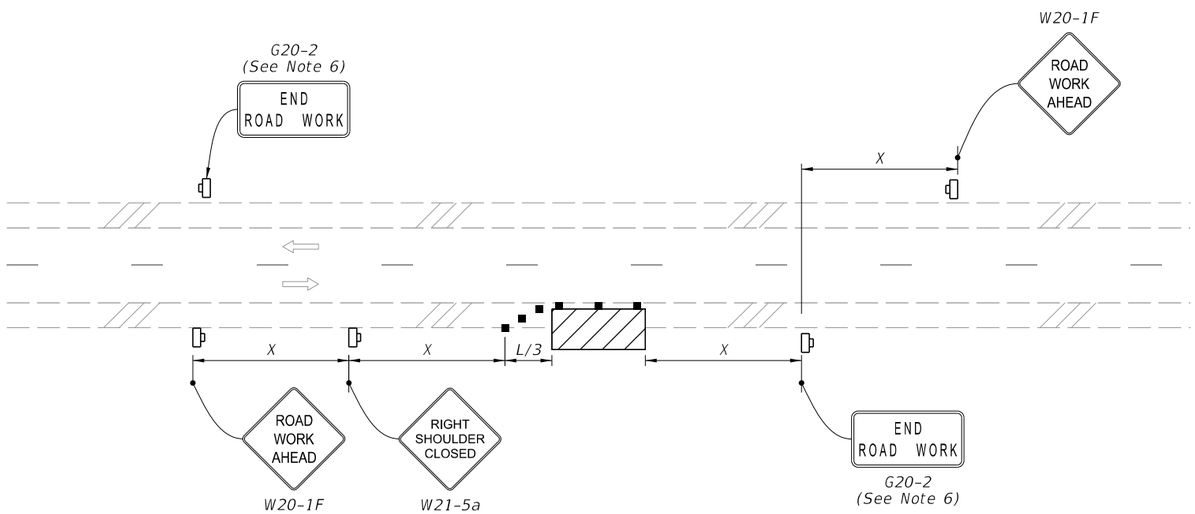
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



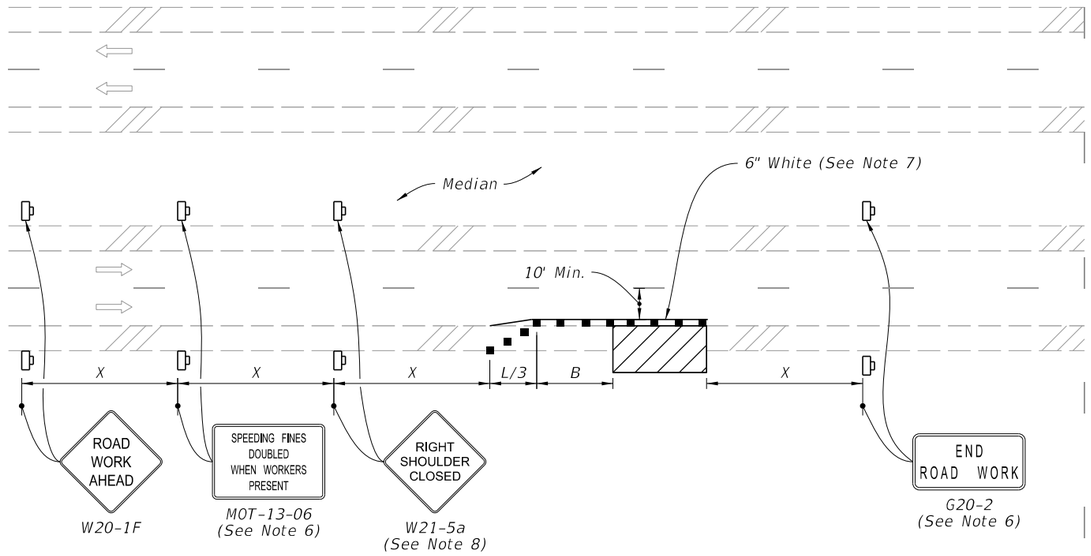
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



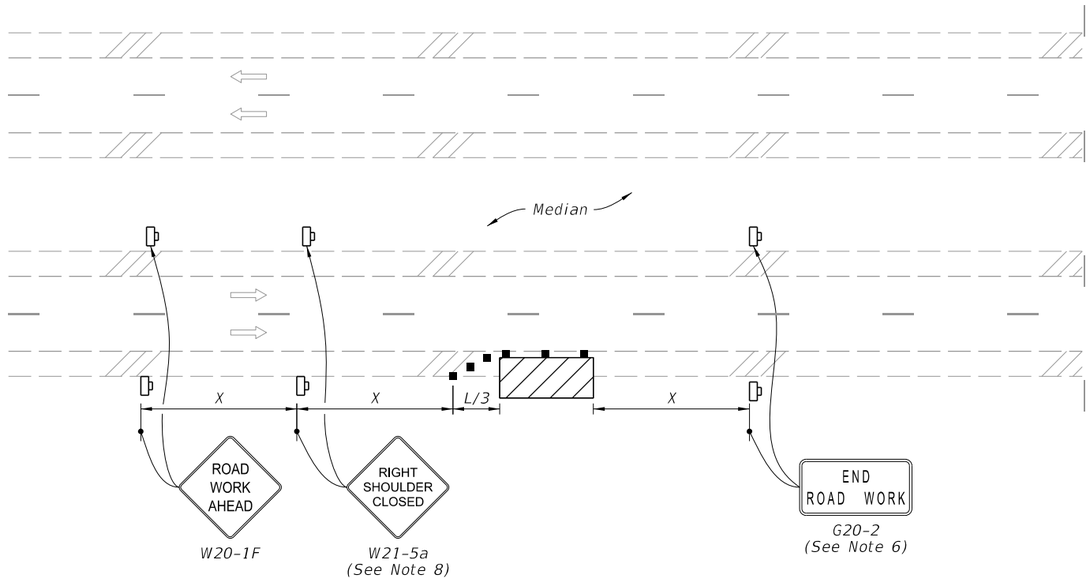
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

NOTES:

1. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.

2. Place pedestrian LCDs across the full width of the closed sidewalk.

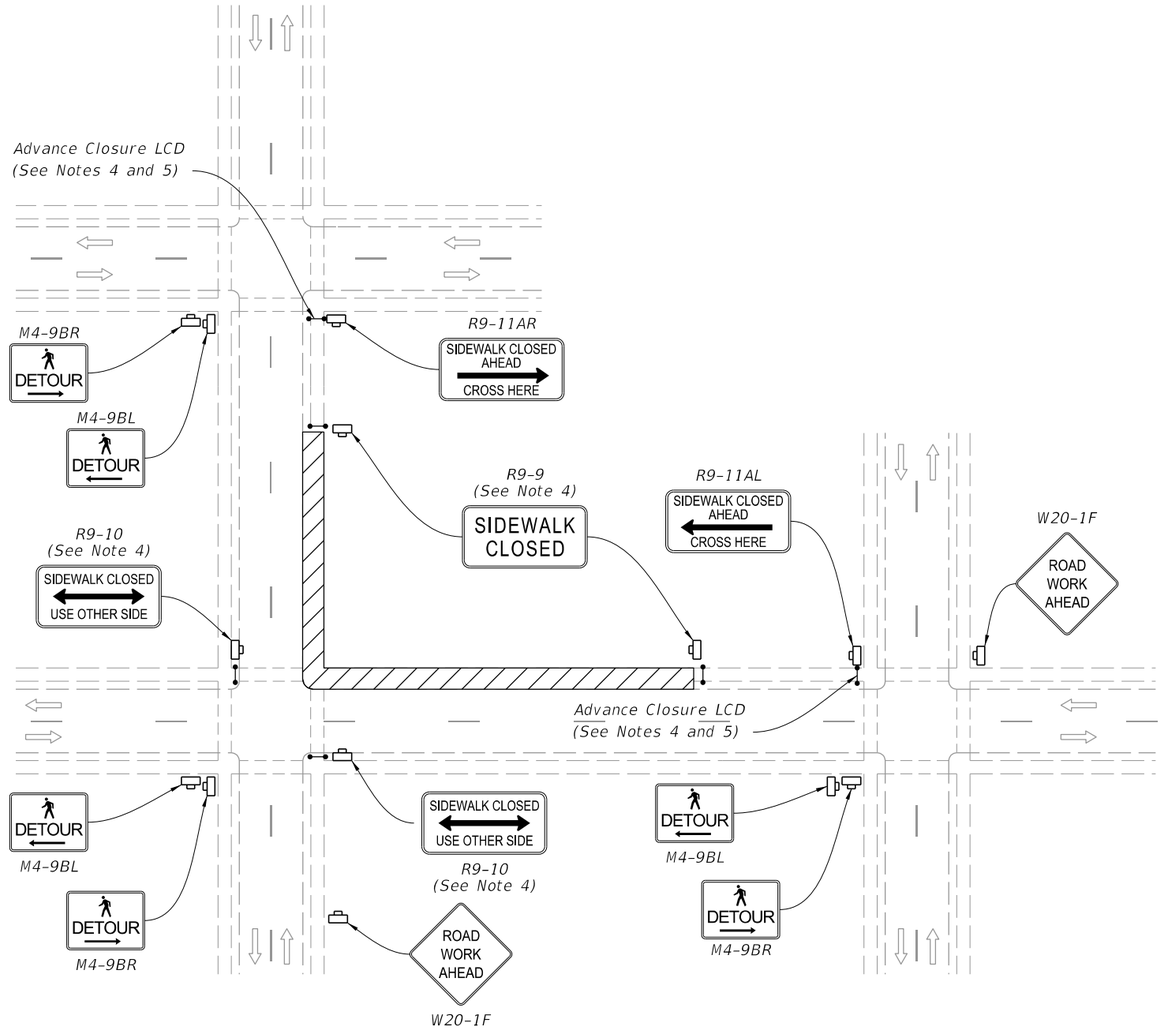
3. For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.

4. "Sidewalk Closed" signs (R9-XX) may be mounted on pedestrian LCDs in accordance with the manufacturer's instructions.

5. Omit the Advance Closure LCD if it blocks access to other pedestrian facilities (e,g,, transit stops, residences, or business entrances).

SYMBOLS:

- Work Area
- Work Zone Sign
- Pedestrian Longitudinal Channelizing Device (LCD)
- Lane Identification and Direction of Traffic



PEDESTRIAN DETOUR

9/10/2024 11:11:04 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FY 2025-26 STANDARD PLANS	SIDEWALK CLOSURE	INDEX 102-660	SHEET 1 of 2

NOTES:

1. L = Taper Length
   B = Buffer Length
   X = Work Zone Sign Distance
   See Index 102-600 for "L", "B", "X", channelizing device spacing values.

2. Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways less than 5' in width at intervals not to exceed 200'.

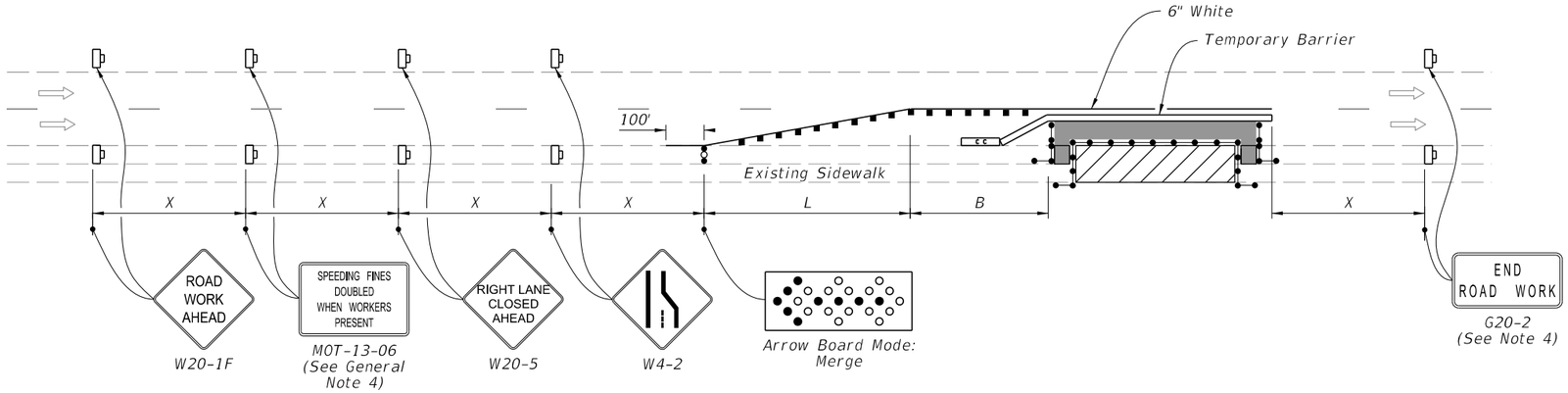
3. When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane.

4. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less.

5. Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.

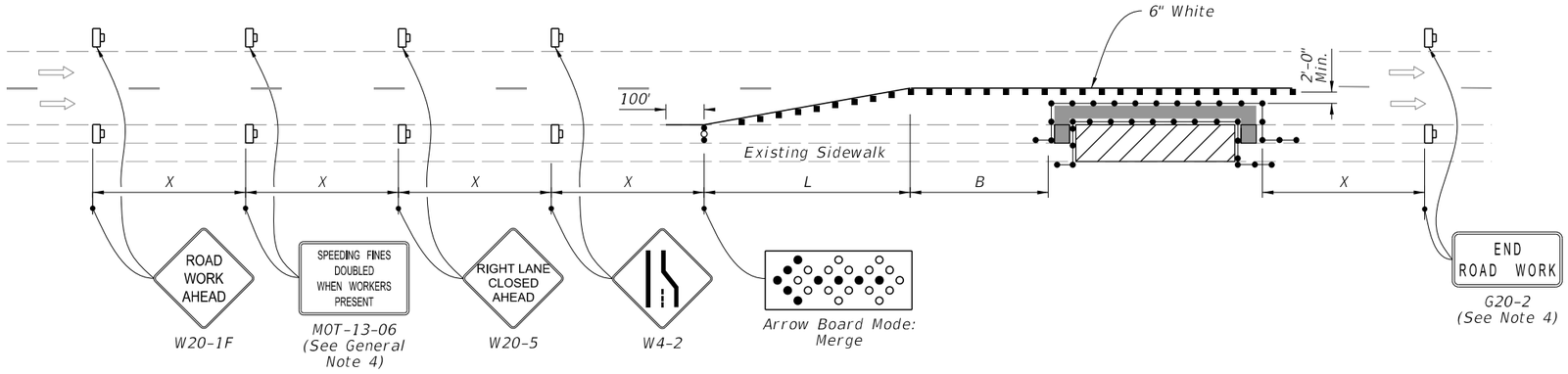
SYMBOLS:

- Work Area
- Temporary Pedestrian Way
- Channelizing Device (See Index 102-600)
- Pedestrian Longitudinal Channelizing Device (LCD)
- Work Zone Sign
- Arrow Board
- Crash Cushion
- Lane Identification and Direction of Traffic



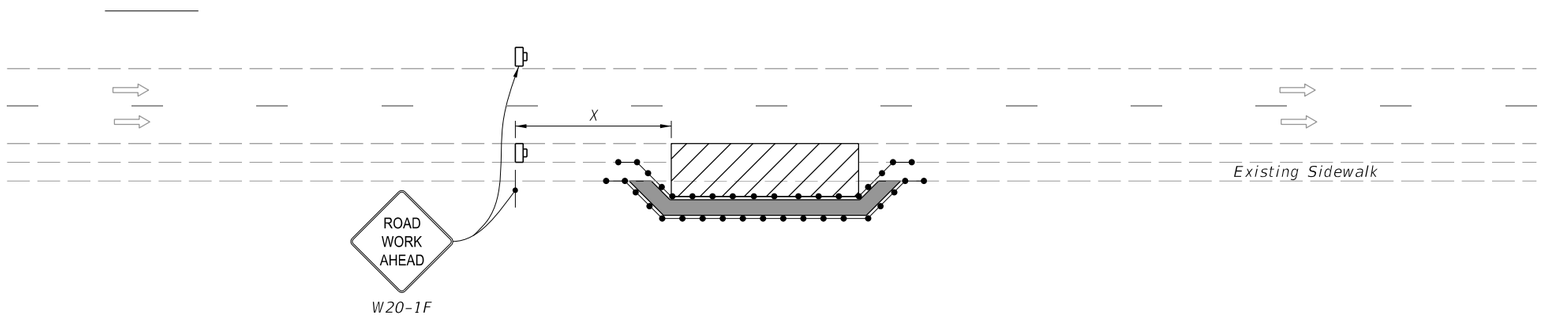
PEDESTRIAN DIVERSION - OPTION 1

(Temporary Barrier Shown, Low Profile Barrier Similar)



PEDESTRIAN DIVERSION - OPTION 2

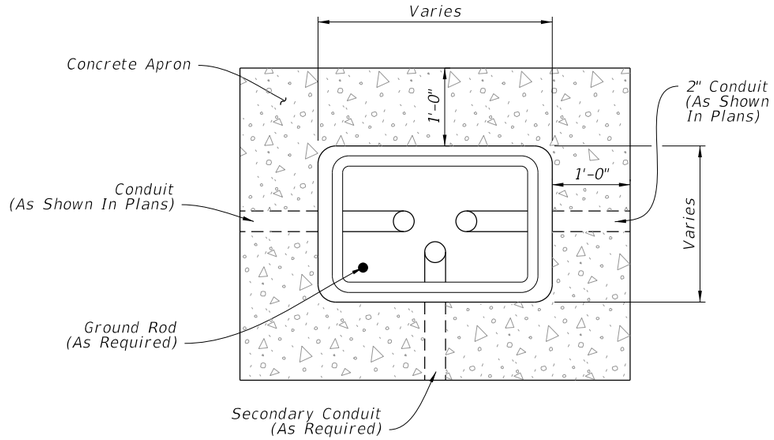
(Work Zone Speed 45 mph or Less)



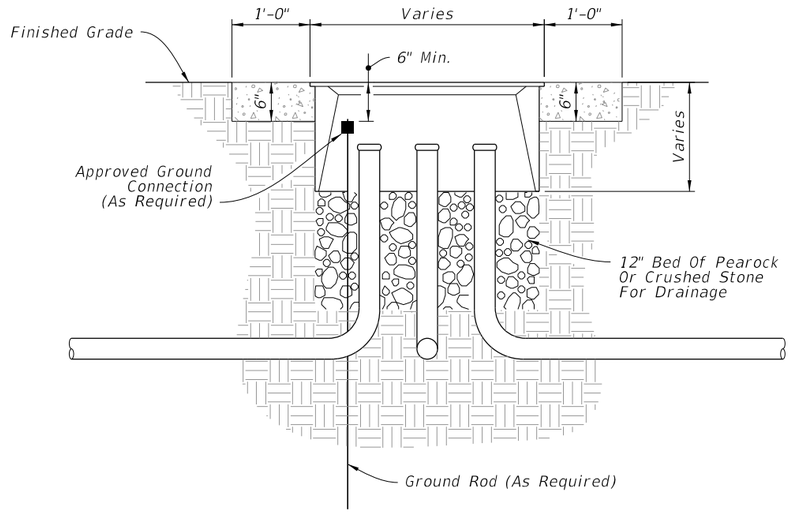
PEDESTRIAN SPECIAL DETOUR

9/10/2024 11:11:11 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/23			FY 2025-26 STANDARD PLANS	SIDEWALK CLOSURE	102-660	2 of 2

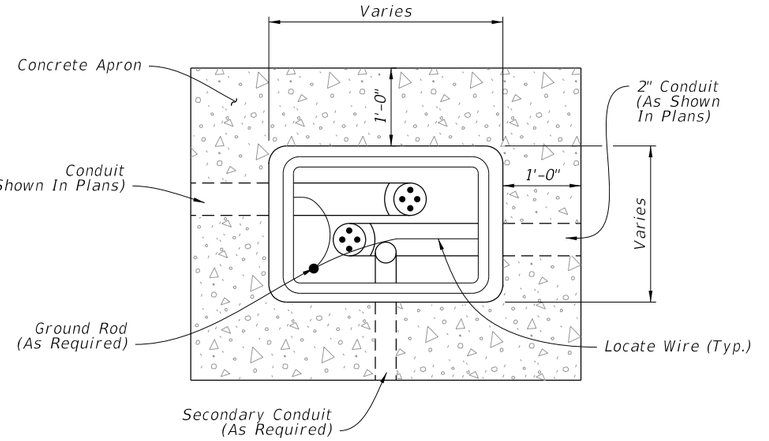


PLAN

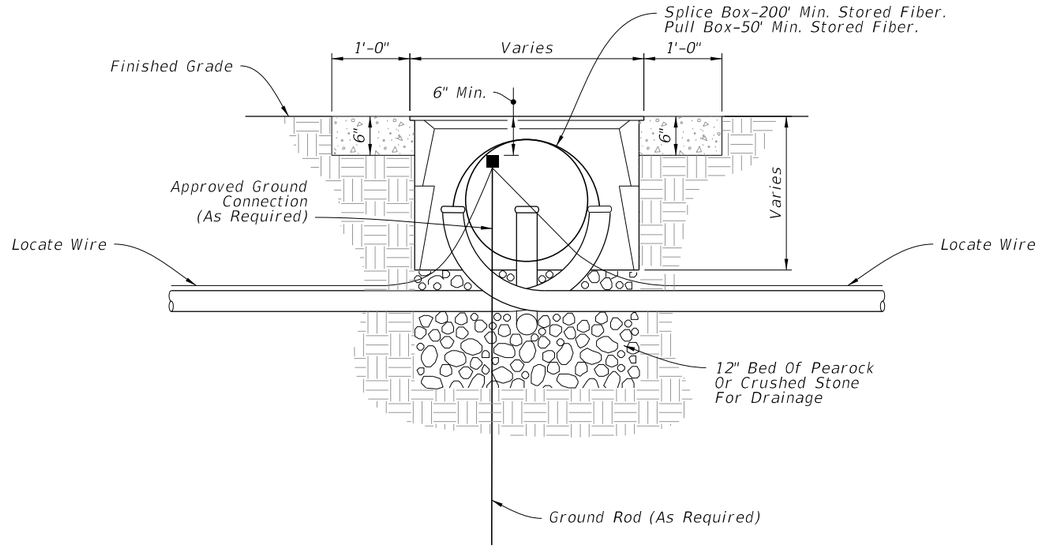


ELEVATION

PULL BOX



PLAN



ELEVATION

FIBER OPTIC BOX

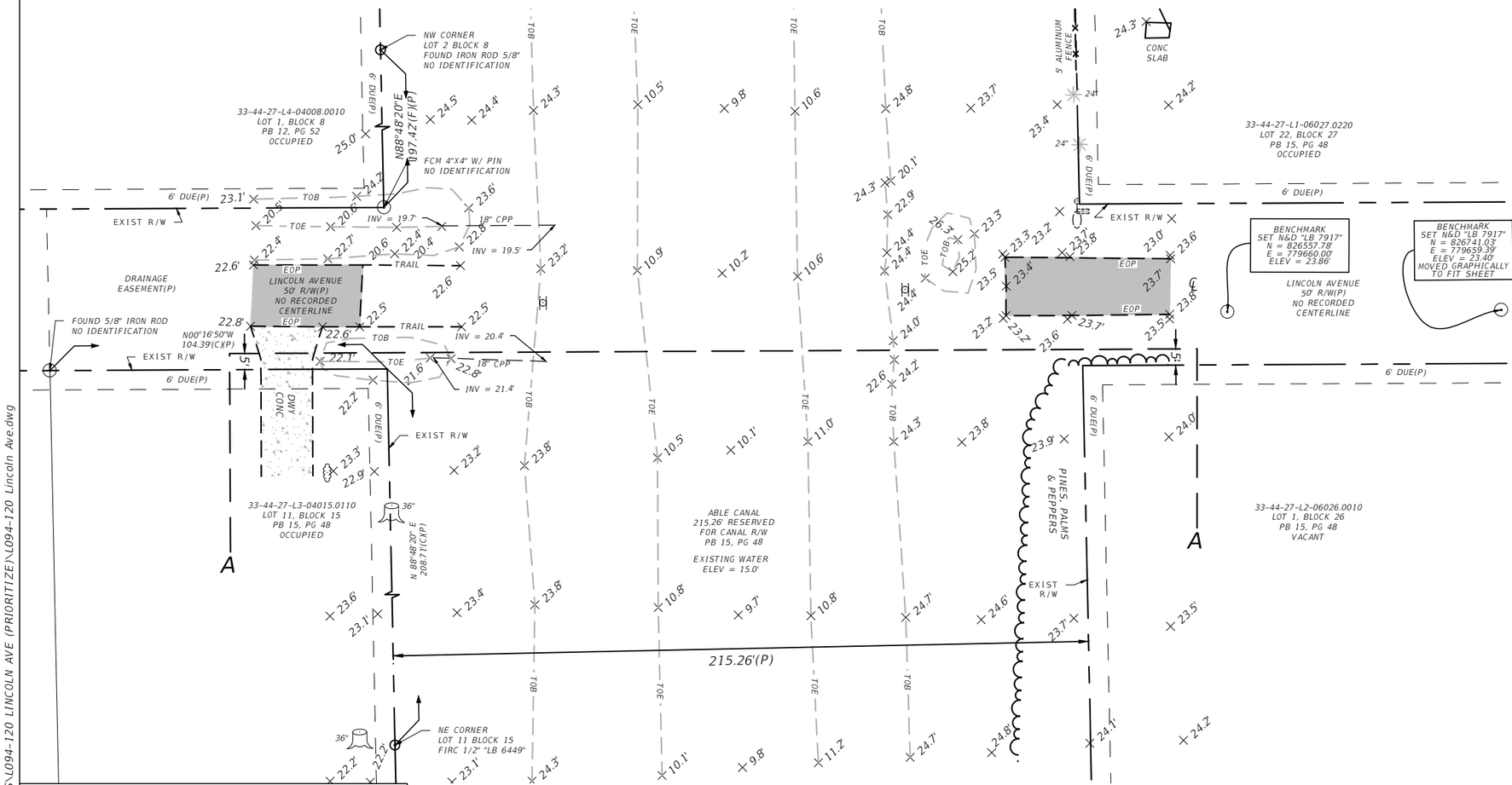
NOTES:

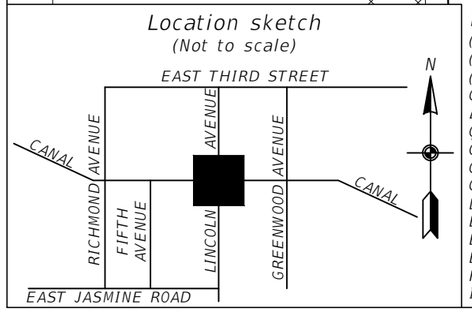
1. Provide fiber optic splice boxes with cable hanger racks designed to support cables and splice enclosures.
2. Install a 1'-0" wide (Min.) concrete apron around all boxes using Class NS concrete. Slope the apron away from the box.
3. Where multiple pull boxes are placed side by side, maintain at least 8" between the pull boxes.
4. Rectangular boxes shown, others similar.

9/10/2024 2:16:11 PM

LAST REVISION	REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	PULL AND SPLICE BOXES	INDEX	SHEET
11/01/18					635-001	1 of 1

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW





LEGEND:

(F)	= FIELD	INV	= INVERT ELEVATION
(P)	= PER PLAT	N&D	= NAIL AND DISK
(C)	= CALCULATED	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
CB	= CATCH BASIN	OR	= OFFICIAL RECORDS BOOK
Δ	= DELTA ANGLE	PB	= PLAT BOOK
℄	= CENTER LINE	PG	= PAGE
CONC	= CONCRETE	R/W	= RIGHT OF WAY
CMP	= CORRUGATED METAL PIPE	RCP	= REINFORCED CONCRETE PIPE
CPP	= CORRUGATED PLASTIC PIPE	RNG	= RANGE
DUE	= DRAINAGE AND UTILITY EASEMENT	S/W	= SIDEWALK
ELEV	= ELEVATION	SEC	= SECTION
EOP	= EDGE OF PAVEMENT	TOB	= TOP OF BANK
EXIST	= EXISTING	TOE	= TOE OF SLOPE
FIRC	= FOUND IRON ROD AND CAP	TWP	= TOWNSHIP
INST#	= INSTRUMENT NUMBER	(TYP)	= TYPICAL

⊙	= FOUND MONUMENT
OE	= OVERHEAD UTILITY LINE
+20.0	= SPOT ELEVATION
	= LIGHT POLE
	= SHRUB
	= GUY ANCHOR
	= DELINEATOR POLE
	= SANITARY SEWER MANHOLE
	= ELECTRIC POLE
	= WATER METER
	= TREE STUMP
	= TREE PALM
	= TREE UNKNOWN

N

0 20' 40'
(1" = 40')
Graphic Scale

Topographic Survey of a Subject Project Site

LYING WITHIN

Section 33, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida

NOTES:

Survey based on the plat of Section 33 as recorded in Plat Book 15 Page 48 and plat of All of Blocks 45,46,47, & 48, all in Unit 10; Lot 1 of Block 49; Lots 1,2 & 3 Block 50, Lots 1,2,3,4,5,19 & 20 7 Reserved portion of Block 51; Lots 1,2,3,4 & 5 & Jasmine Road in Block 52, Unit II; All of Blocks 13 &14 in Unit 4 as recorded in Plat Book 12 Page 52, Public Records of Lee County, Florida and existing monumentation.

This survey is a Topographic Survey for the purpose of locating the features within and adjacent to the Lehigh Acres Municipal Services Improvement District-managed facility EAST of LINCOLN AVENUE between EAST JASMINE ROAD and EAST THIRD STREET.

The elevations shown hereon are referenced to the North American Vertical Datum of 1988 (NAVD 1988). All elevations are reported in US survey feet and decimals thereof and are based upon the Florida Permanent Reference Network (FPRN) stations maintained by the Florida Department of Transportation.

The subject site lies within Zone "[X]" per FEMA insurance rate map 125124 0476F (Published 08/28/2008), therefore has no base flood elevation.

The FEMA flood zone information indicated hereon is based on the maps supplied by the Federal Government. This flood information must be verified with all permitting regulatory entities prior to commencing any work or application dependent on said flood information.

Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 03/26/2026

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Lincoln Avenue, Lehigh Acres

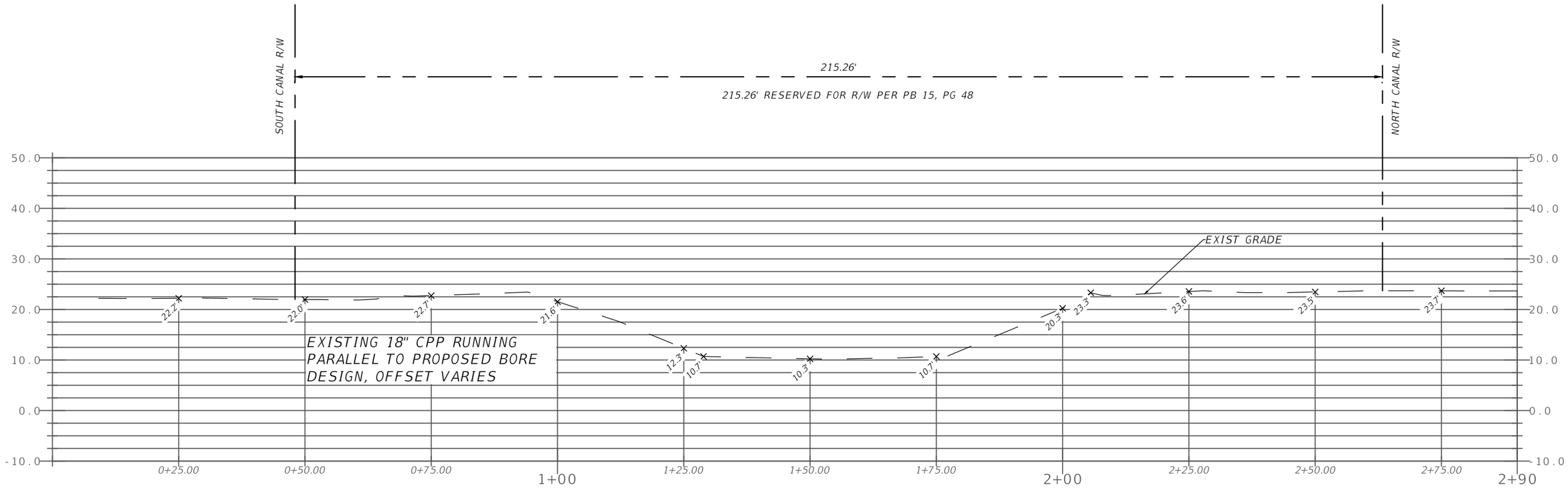
TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name: L094-120 Lincoln Ave.dwg	Field book/page: 106981-4/17	Project No.: 106980001-L094	
Survey date: 03/26/2026	Drawn by: KB	Checked by: TJH	Sheet No.: 01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L094-120 LINCOLN AVE (PRIORITIZE)\L094-120 Lincoln Ave.dwg

Topographic Survey of a
Subject Project Site
Section 33, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Lincoln Avenue, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L094-120 Lincoln Ave.dwg	106981-4/17	106980001-L094

Survey date:	Drawn by:	Checked by:	Sheet No.:
03/26/2026	KB	TJH	02 OF 02

PLAT BOOK 15, PAGE 48

Petition to Vacate
Description:For vacation Tract A
Date of Approval:07/01/64
CCMB:25 Page:74,74D to 74V

for Vacation of Tract A See C.C.M.B 25 Pg 74, 74-D&74 V Inclusive

Petition to Vacate
Petition No:2000-00046
Description:12ft wide public utility easement; See CCMB
Date of Approval:09/26/00
Resolution No:00-09-62
CCMB:2000R Page:594
Recorded on:10/06/00 OR Book:3312
Page:3643-3646

for Vacation of Part of Block 7 & 9 See C.C.M.B Pg 10, 10D to 10 I Inclusive OR 602 Pg 240 to 244 Inclusive

Petition to Vacate
Petition No:70-4
Description:For vacation of part of block 7&9
Date of Approval:05/06/70
CCMB:42 Page:10,10D to 10 I Incl
OR: 602 Page:240 to 244 Incl

Petition to Vacate
Petition No:76-10
Description:Vacation of utility easement
Block 35 btwn Lots 19&20
Date of Approval:09/08/76
CCMB:71 Page:104

PLAT OF SECTION 33 TWP. 44 S. RGE. 27 E.

A SUBDIVISION OF "LEHIGH ACRES"

LEE COUNTY, FLA.

LEE COUNTY LAND & TITLE CO. DEVELOPERS

MARCH 10, 1961

Petition to Vacate
Petition No:96-05-212.01R
Description:A portion of a PUE;See CCMB
Date of Approval:07-31-96
Resolution No:96-07-55
CCMB:1996R Page:472
Recorded on:08/08/96 OR Book:2734 Page:1455-1458

Petition to Vacate
Petition No:80-17
Description:Vacation 12ft utility easement portion lots 10,11,12
Date of Approval:01/14/81
CCMB:103 Page:170

Petition to Vacate
Petition No:81-6
Description:Vacation easement Lots 19-20 Block 37 Unit 9
Date of Approval:04/29/81
CCMB:106 Page:83

Petition to Vacate
Petition No:86-1
Description:Vacation portion Lots 13&14
Date of Approval:02/12/86
CCMB:167 Page:31

Petition to Vacate
Petition No:93-11
Description:12ft utility easement; See CCMB
Date of Approval:05/05/93
Resolution No:93-05-13
CCMB:1993R Page:344
Recorded on:5/28/93 OR Book:2391
Page:3905-3907

PLAT OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

LEE COUNTY LAND AND TITLE COMPANY

DEVELOPERS

ACKNOWLEDGEMENTS

KNOW ALL MEN BY THESE PRESENTS, THAT LEE COUNTY LAND AND TITLE COMPANY, A CORPORATION UNDER THE LAWS OF FLORIDA, BEING THE OWNER OF THE LAND DESCRIBED IN THE CAPTION HEREON HAS CAUSED THIS PLAT OF LEHIGH ACRES TO BE MADE AND DO HEREBY DEDICATE TO THE PERPETUAL USE OF THE PUBLIC STREETS, ROADS, DRIVES AND/OR LANES SHOWN HEREON AND ALL CANAL RIGHT OF WAYS SHALL BE DEDICATED TO THE EAST COUNTY WATER CONTROL DISTRICT.

IN WITNESS WHEREOF GERALD H. GOULD AND EDWARD SHAPIRO, RESPECTIVELY PRESIDENT AND SECRETARY OF LEE COUNTY LAND AND TITLE COMPANY, BY AND WITH AUTHORITY OF IT'S BOARD OF DIRECTORS HAVE EXECUTED THESE PRESENTS FOR AND ON BEHALF OF SAID CORPORATION AND CAUSED IT'S CORPORATE SEAL TO BE AFFIXED THIS 10th DAY OF April A.D. 1961

LEE COUNTY LAND AND TITLE CO.

BY Jerald H. Gould
President

ATTEST: Edward Shapiro
Secretary

STATE OF FLORIDA
COUNTY OF LEE

I HEREBY CERTIFY THAT ON THIS DAY, BEFORE ME AN OFFICER DULY AUTHORIZED TO TAKE ACKNOWLEDGEMENTS, PERSONALLY APPEARED GERALD H. GOULD AND EDWARD SHAPIRO, RESPECTIVELY PRESIDENT AND SECRETARY OF LEE COUNTY LAND AND TITLE COMPANY, TO ME KNOWN TO BE THE PERSONS DESCRIBED IN AND WHO EXECUTED THE FOREGOING DEDICATION AS PRESIDENT AND SECRETARY RESPECTIVELY OF LEE COUNTY LAND AND TITLE COMPANY FOR THE PURPOSES THEREIN SET FORTH.

WITNESS MY HAND AND OFFICIAL SEAL AT FORT MYERS, SAID COUNTY AND STATE THIS 10th DAY OF April A.D 1961

Jean Wilhelm
NOTARY PUBLIC STATE OF FLORIDA AT LARGE

My Commission Expires July 19, 1964

APPROVALS

THIS PLAT APPROVED THIS 13 DAY OF April A.D. 1961 IN OPEN MEETING OF THE BOARD OF COUNTY COMMISSIONERS OF LEE COUNTY, FLORIDA.

APPROVED Gloyd S. Hunter
Chairman

D. D. Farabee
Clerk

County Attorney

Stacey Bruce
County Road Superintendent

869293

I HEREBY CERTIFY THAT THIS PLAT OF LEHIGH ACRES, HAS BEEN EXAMINED BY ME AND FROM MY EXAMINATION I FIND THAT SAID PLAT COMPLIES IN FORM WITH THE REQUIREMENTS OF SURVEY LAWS OF FLORIDA.

I FURTHER CERTIFY THAT SAID PLAT WAS FILED FOR RECORD AT FORT MYERS THIS 13 DAY OF April A.D. 1961, AND DULY RECORDED IN PLAT BOOK 15 ON PAGES 1-101 OF PUBLIC RECORDS OF LEE COUNTY, FLORIDA.

D. D. Farabee
Clerk Of The Circuit Court In And For Lee County

SURVEYORS CERTIFICATE

I THE UNDERSIGNED CERTIFY THAT THE PLAT AS SHOWN IS A CORRECT REPRESENTATION OF THE LANDS PLATTED.

R. V. Jamme

PLAT OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

LEE COUNTY LAND AND TITLE COMPANY

DEVELOPERS

DESCRIPTION

TOWNSHIP 43 SOUTH, RANGE 27 EAST

The Southeast 1/4 of Section 36

TOWNSHIP 44 SOUTH, RANGE 27 EAST

The South 1/2 and the North 1/2 of the North 1/2 of Section 1; the East 1/2 and the East 1/2 of the Northwest 1/4 and the Southwest 1/4 of the Northwest 1/4 of Section 2; the South 1/2 of Section 7, 8 and 9; all of Sections 11 through 21 inclusively and all of Sections 23 through 28 inclusively; all of Section 29 except that part lying South of the South Right of Way of Able Canal; all of Sections 35 and 36 inclusively; all of Section 32 except the following: Units 1, 2 and 3 of Section 32 as recorded on pages 124, 125 and 126 of Plat Book 9. Units 4, 5, 7, 10, 11 and 18 of Section 32 as recorded on Pages 50 through 55 inclusively of Plat Book 12. Unit 20 of Section 32 as recorded on Pages 86 through 89 inclusively of Plat Book 10. Part of Unit 3 as recorded on Page 23 of Plat Book 12. Addition to Unit 20 as recorded on Pages 36 and 37 of Plat Book 13 all of the Public Records of Lee County, and all of section 33 except the following: Units 4 and 10 of Section 33 as recorded on Page 52 of Plat Book 12. Unit 5 of section 33 as recorded on Page 29 of Plat Book 12. Bear Lake Subdivision as recorded on Pages 38 and 39 of Plat Book 13. Replat of Lots 1 through 6, Block 46, section 33, Township 44 South, Range 27 East as recorded on Page 84 of Plat Book 12 all of the Public Records of Lee County and that part of section 34 described as Follows; Beginning at the Northwest Corner of section 34, Township 44 South, Range 27 East go North 89°-12'-26" East, 1919.76 feet; thence South 00°-06'-48" East, 1468.91 feet; thence South 89°-12'-26" West, 1919.76 feet; thence North 00°-06'-48" West, 1468.91 feet to the Point of beginning; and that part of section 34, Twp. 44 S., Rge 27 E., described as follows: commencing at the Southwest corner of Section 34; thence North 00°-06'-48" West along the West line of said Section 1403.40 feet to the Northerly right of way line of Joel Boulevard; thence North 88°-58'-52" East along said Northerly right of way 15.80 feet to the P.C. of a curve; thence Northeasterly on a tangential curve to the left, with a radius of 676.18 feet, a distance of 400.21 feet, to the P.T. of said curve, thence North 55°-05'-58" East, continuing along said Northerly right of way of Joel Boulevard, 1012.50 feet to the Southwesterly right of way of David Avenue, said point also being the actual point of beginning of the tract of land to be described; thence North 34°-54'-02" West along said Southwesterly right of way line 1610 feet; thence North 55°-05'-58" East, a distance of 200 feet; thence South 34°-54'-02" East, a distance of 90 feet; thence North 55°-05'-58" East, a distance of 175 feet; thence North 87°-55'-40" East, a distance of 184.45 feet; thence South 34°-54'-02" East, a distance of 185 feet; thence South 55°-05'-58" West, a distance of 280 feet; thence South 34°-54'-02" East, a distance of 375 feet; thence South 55°-05'-58" West, a distance of 200 feet; thence South 34°-54'-02" East, a distance of 860 feet; thence South 55°-05'-58" West, a distance of 50 feet, to the actual Point of Beginning; and all of Section 22 lying West of the West right of way line of Gerald Avenue as shown on the Plat of a Subdivision of Part of Lehigh Acres recorded on Pages 50 through 55 inclusively of Plat Book 12 of the Public Records of Lee County, Florida.

TOWNSHIP 44 SOUTH, RANGE 26 EAST

All of Sections 1, 2, 11, 12, 13, 23, 24, 26, 27, 32, 33, 34, 35, and 36; and the South 1/2 of Sections 29 and 30; and the South 100 feet of the North 1/2 of Section 30; and the East 1/2 of Section 14; the South 1/2, and that part of the North 1/2 of Section 28, lying East of Buckingham Road; all of Block E, Lot 1, Block 38 of Buckingham Park, South Section as recorded in Plat Book 9, Page 99 of the Public Records of Lee County, Florida, and all that part of Section 22 lying South and West of the Southerly right of way of Homestead Road, except Lots 1 through 7 inclusively, Block 37 of Buckingham Park South Section as recorded in Plat Book 9, Page 99 of the Public Records of Lee County, Florida; and that part of section 31, lying North of the Northerly right of way of State Road 82; and all of Section 25 except Units 3 and 6 and Units 11 and 12 as recorded in Plat Book 13, Pages 21, 22 and 23 of the Public Records of Lee County, Florida.

TOWNSHIP 45 SOUTH, RANGE 26 EAST

All of Sections 1, 2, 3 and 12, all of that part of sections 4, 5, 6, 9, 10, 11, 13 and 14 lying North of the Northerly right of way of State Road 82.

PART IV #26-71

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ Approved ___ Denied ___

District Manager: _____ Date: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Able Canal (47-33-1) at 120 Lincoln Ave., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Spur "C" Canal (47-29-2), along the south side of W. 5th St., between Edison Ave. & Cortez Ave., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-72

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-72 is approved according to the plans submitted April 28th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 30' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along W. 5th St.

04-17-26

26-72

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: WILLIAM KIEFER **PHONE #:** (515) 306 - 3403

PROJECT NAME: LE1_016_FDH_006 401 EDISON AVE - SPUR C CANAL

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 401 EDISON AVE					
Mailing Address:	N/A				
City:	LEHIGH ACRES	**State:**	FLORIDA	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary*)**:**

29-44-27-L3-02007-024A

Brief description of proposed project:

Application for: DIRECTIONAL BORE 2x1.25" HDPE SDR 11 CONDUIT 30' IN THE LAMSID ROW OF SPUR C (47-29-2) ALONG W 5TH ST

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$1200.00 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	LUMOS FIBER OF FLORIDA, LLC						
Mailing Address:	**Street:**	4100 MENDENHALL OAKS PKWY, SUITE 300					
City:	HIGH POINT	**State:**	NORTH CAROLINA		**Zip:**	27265	
Phone No.	**Area Code:**	515	**Number:**	306 - 3403	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	WILLIAM.KIEFER@LUMOSFIBER.COM						

B. Relationship of applicant to property*:

Owner* ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee*** ☐

Contract Purchaser* ☐ **Other (indicate)*** ☑ UTILITY

C.

Name of Developer:	MILENIUM DIRECTIONAL DRILLING, INC						
Mailing Address:	**Street:**	5395 COGSWELL DR					
	WAYNE	**State:**	MI		**Zip:**	48184	
	Area Code:	(313)	**Number:**	326 - 2333	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	FELECAND@MILENIUMBORS.COM						

D.

Name of Authorized Agent(s):	CENTILLION SOLUTIONS						
Mailing Address:	**Street:**	6030 BETHELVIEW RD, SUITE 301					
City:	CUMMING	**State:**	GEORGIA		**Zip:**	30040	
Phone No.	**Area Code:**	(480)	**Number:**	442 - 0562	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	KYLE.PARKEY@CENTILLIONSOLUTIONS.COM						

E.

Name of Property owner:	N/A						
Mailing Address:	**Street:**						
City:		**State:**			**Zip:**		
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

	-		-		-		-					-				

PRIMARY STRAP NUMBER:

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

WILLIAM KIEFER
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 28th day of April (m), 2026 (y), by William Kiefer who is personally know to me ~~or has~~ produced _____ ~~as identification~~.

ANDREW P. STEVENSON
Notary Public, North Carolina
Guilford County
My Commission Expires
November 06, 2026

Andrew P. Stevenson
SIGNATURE OF NOTARY PUBLIC

Andrew P. Stevenson
PRINTED NAME OF NOTARY PUBL

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at lamsid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:					
Mailing Address:					
City:		**State:**		**Zip:**	
Business No.	**Area Code:** ( )	**Number:**	-	**Ext.**	
Other Contact:					

ENGINEER

Name:	MCKIM & CREED				
Mailing Address:	5701 DIVISION DR, STE A				
City:	FORT MYERS	**State:**	FLORIDA	**Zip:**	33905
Business No.	**Area Code:** (239)	**Number:**	980 - 3384	**Ext.**	
Other Contact:					

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	BLAIR CONSULTING SERVICES, INC				
Mailing Address:	1428 SUNBLUSH LN				
City:	LAS VEGAS	**State:**	NV	**Zip:**	89117
Business No.	**Area Code:** (813)	**Number:**	579 - 0128	**Ext.**	
Other Contact:					

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
NA	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
NA	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
NA	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/11/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-72	Lumos Bore Under Spur "C" Canal (47-29-2) At W. 5th St.	Total Fee $1,200.00
	Permit Fee: $750 + $15 x 30' R/W = $750 + $450	Due From Deposit
	Total Fee = $1,200.00	
	TOTAL	$1,200.00

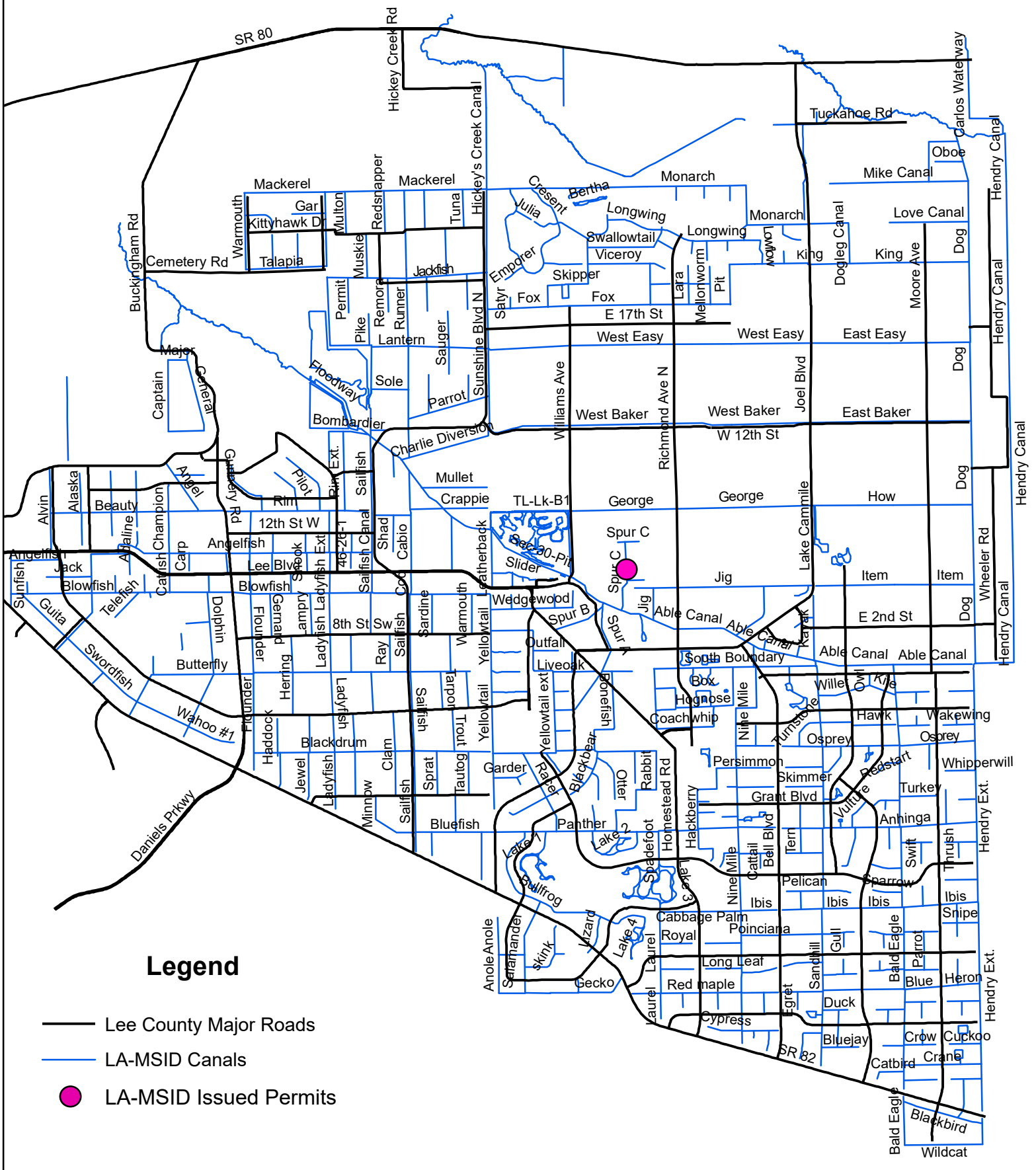
PERMIT REVIEWER SIGNATURE: Richard S. Cook DATE: 5/11/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs. Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry.**

*The CR account will need to be changed based on the customer. See accounting to setup new customer deposit accounts.

Permit # 2026-72



Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL

401 EDISON AVE, LEHIGH ACRES, FL 33936 (26.617595, -81.635254)

PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 220' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 2X96-CT FIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
1	COVER SHEET	7	PROFILE VIEW
2	SOW AND CONTACTS	8 - 9	IMAGES
3	LEGEND	10 - 12	TYPICALS
4 - 5	GENERAL NOTES		
6	PROJECT SHEETS		

PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

Blair Consulting Services, INC
1428 Sunblush Ln, Las Vegas, NV 89117
Fabio Perassi - Project Manager
fsperassi@gmail.com

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:	COVER SHEET
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_006
DESCRIPTION:	SPUR C CANAL
DRAWING NAME:	LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL
SHEET:	1 OF 12

SCOPE OF WORK

- BURIED PLACEMENT OF 220' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 2X96-CT MICROFIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
William Kiefer - OSP Project Engineer
William.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

ENGINEERING COMPANY

Blair Consulting Services, INC
1428 Sunblush Ln,
Las Vegas, NV 89117

PROJECT MANAGER
Fabio Perassi
813-579-0128
fsperassi@gmail.com

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

LEE COUNTY ELECTRIC CO-OP
TOM BAILEY
(239) 656-2414

LUMOS FIBER OF FLORIDA, LLC
MARLON BROWN - SR DIRECTOR
MARLON.BROWN@LUMOSFIBER.COM
(540) 278-0304

FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

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BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: SOW & CONTACTS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_006
DESCRIPTION:	SPUR C CANAL
DRAWING NAME:	LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL
SHEET:	2 OF 12

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F	
	IN: 0
	OUT: 0

SEQUENTIAL CALLOUT

#F	
	IN: 0
	TAIL: 0

SEQUENTIAL IN TAIL CALLOUT

#F	
	TAIL: 0
	OUT: 0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

PERMITTING AGENCY
LA - MSID

lumos

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1428 SUNBLUSH LN
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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: LEGEND

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_006
DESCRIPTION:	SPUR C CANAL
DRAWING NAME:	LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL
SHEET:	3 OF 12

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_006
DESCRIPTION:	SPUR C CANAL
DRAWING NAME:	LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL
SHEET:	4 OF 12

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

PERMITTING AGENCY

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:
GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_006
DESCRIPTION:	SPUR C CANAL
DRAWING NAME:	LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL
SHEET:	5 OF 12

PROPOSED UTILITY MARKER 01+25

PROPOSED BORE PIT 00+00

PROPOSED BORE PIT 02+20

PROPOSED UTILITY MARKER 00+95

DIRECTIONAL BORE:
- (2) 1.25" HDPE SDR 11 CONDUIT
- 220'
- MINIMUM DEPTH = 207.6" STA– 00+95 TO 01+25

EDISON AVE

SPUR C CANAL 47-29-2

W 5TH ST

CORTEZ AVE

6' | 17' | 50' | 17' | 6'

20' | 15' | 15'

4' | 30' | 4'

ESMT | R/W | EOP | SD

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0 10' 20' 30' 40'

SCALE: 1"=40'

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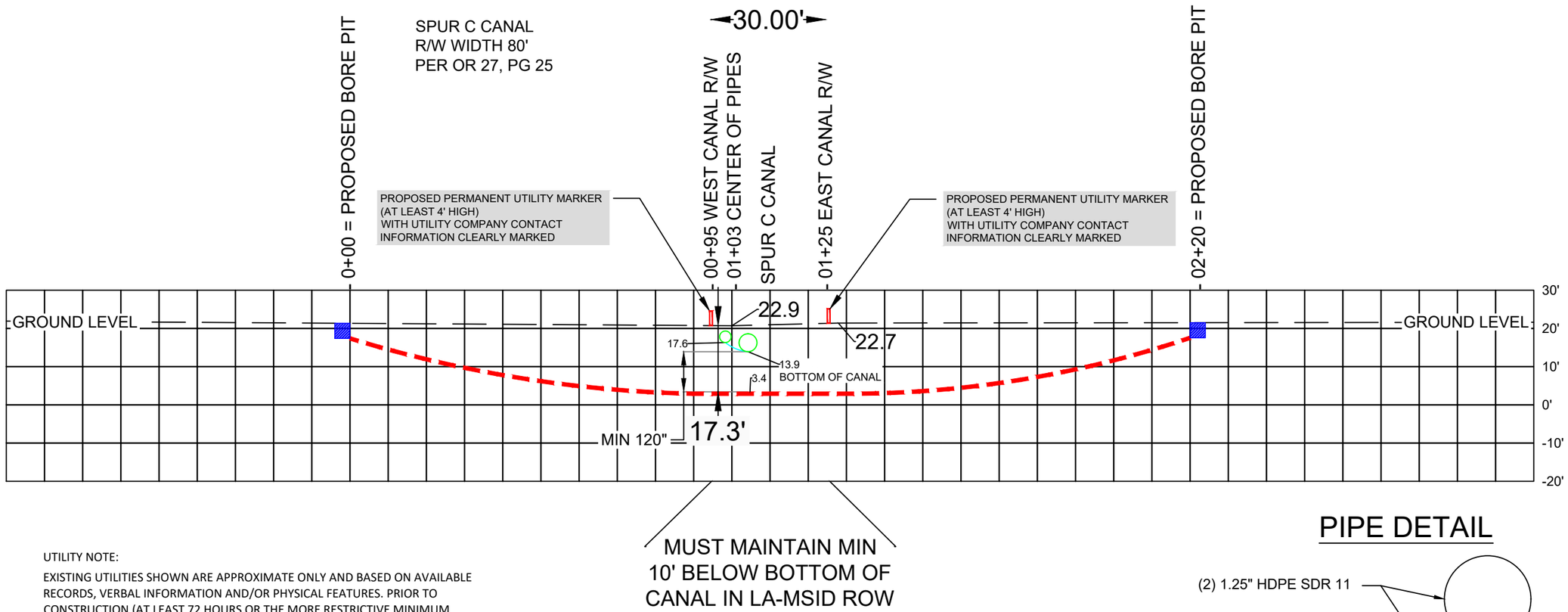
SHEET TITLE: PROJECT SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_006
DESCRIPTION:	SPUR C CANAL
DRAWING NAME:	LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL
SHEET:	6 OF 12

SUB-GRADE VERTICAL PROFILE VIEW
WEST 5TH ST
LOOKING NORTH



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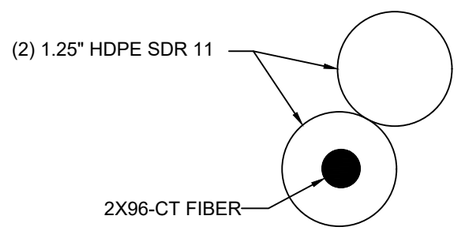
PIPE DETAIL



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0 10' 20' 30'
SCALE: 1"=30'

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SHEET TITLE:	PROFILE VIEW
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_006
DESCRIPTION:	SPUR C CANAL
DRAWING NAME:	LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL
SHEET:	7 OF 12

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SHEET TITLE: IMAGES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_006
DESCRIPTION:	SPUR C CANAL
DRAWING NAME:	LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL
SHEET:	8 OF 12

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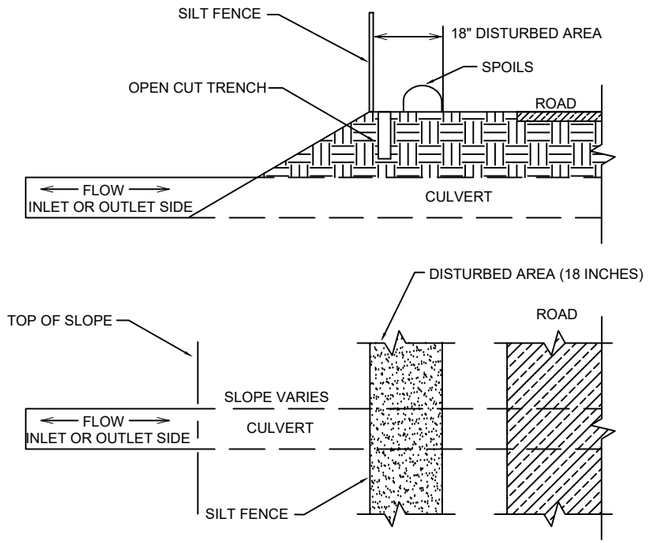
SHEET TITLE:	IMAGES
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_006
DESCRIPTION:	SPUR C CANAL
DRAWING NAME:	LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL
SHEET:	9 OF 12

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

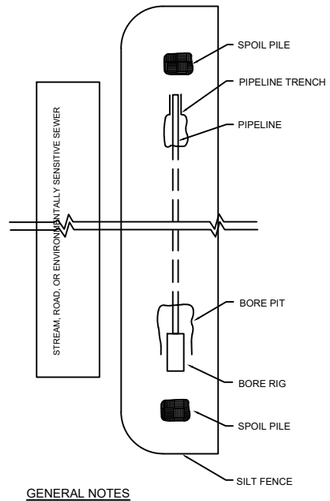
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

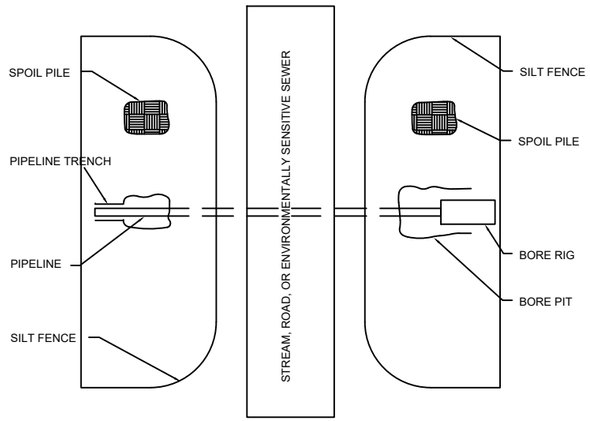


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

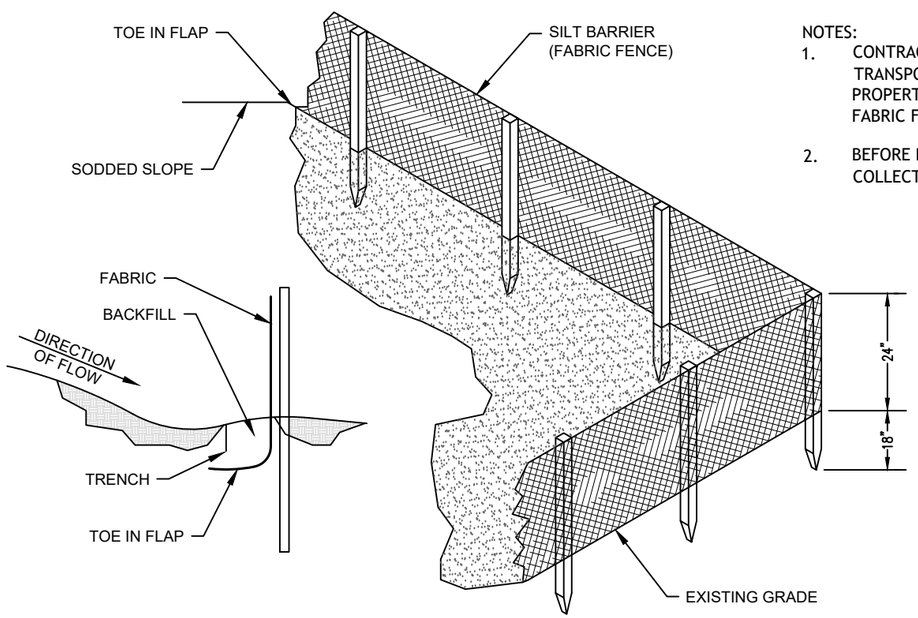
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

PERMITTING AGENCY

LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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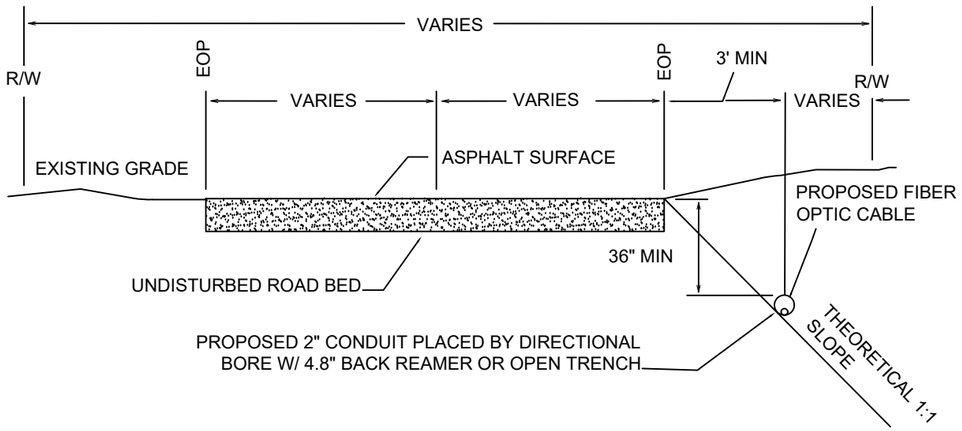
SHEET TITLE: TYPICALS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_006
DESCRIPTION:	SPUR C CANAL
DRAWING NAME:	LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL
SHEET:	10 OF 12

TYPICALS

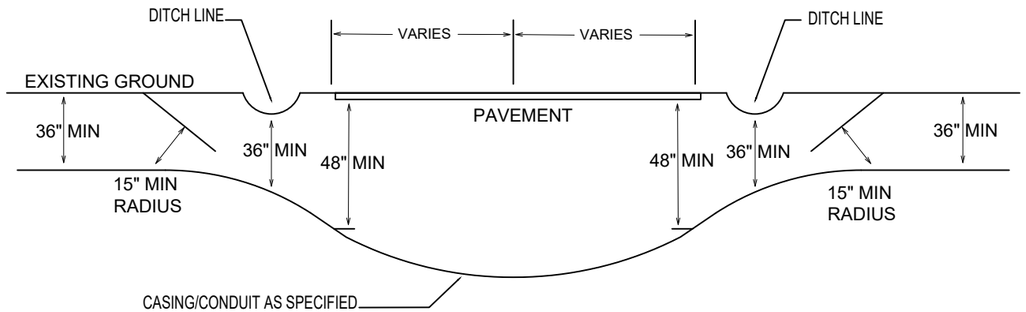
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



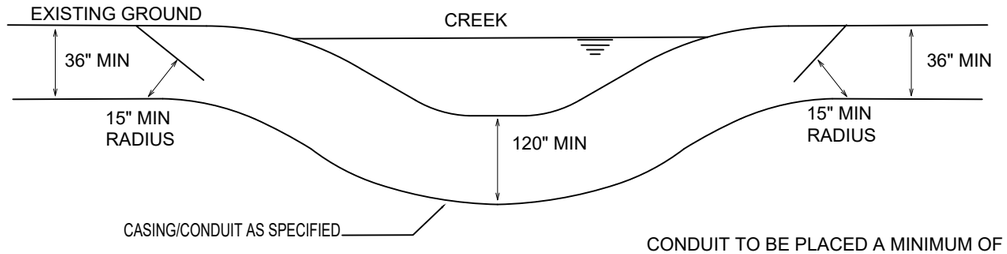
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

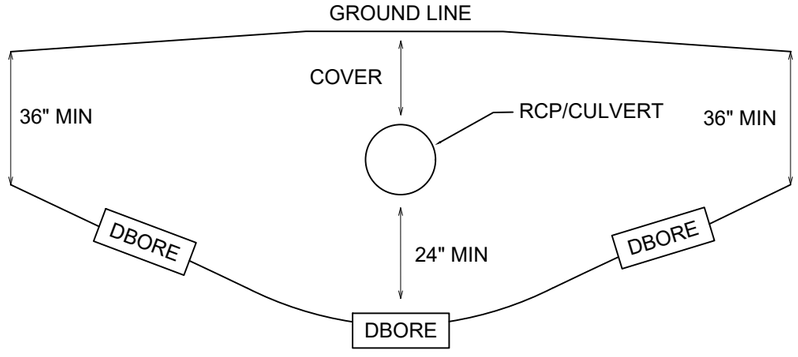
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 10 FEET BELOW CREEK BED

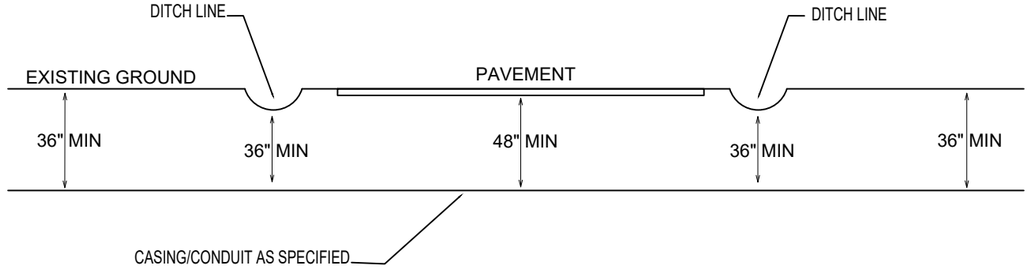
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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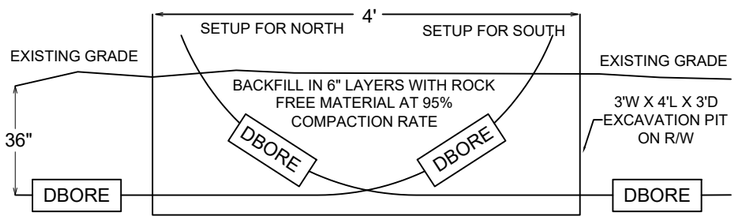
DRAWING NAME:	LE1_016_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SPUR C CANAL
SHEET:	11 OF 12

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

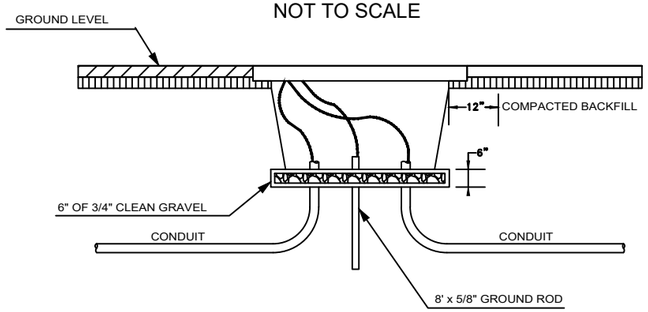


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

PULL BOX HANDHOLE

NOT TO SCALE



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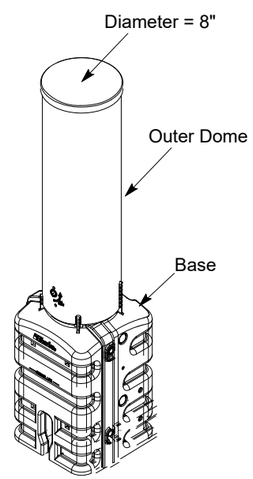
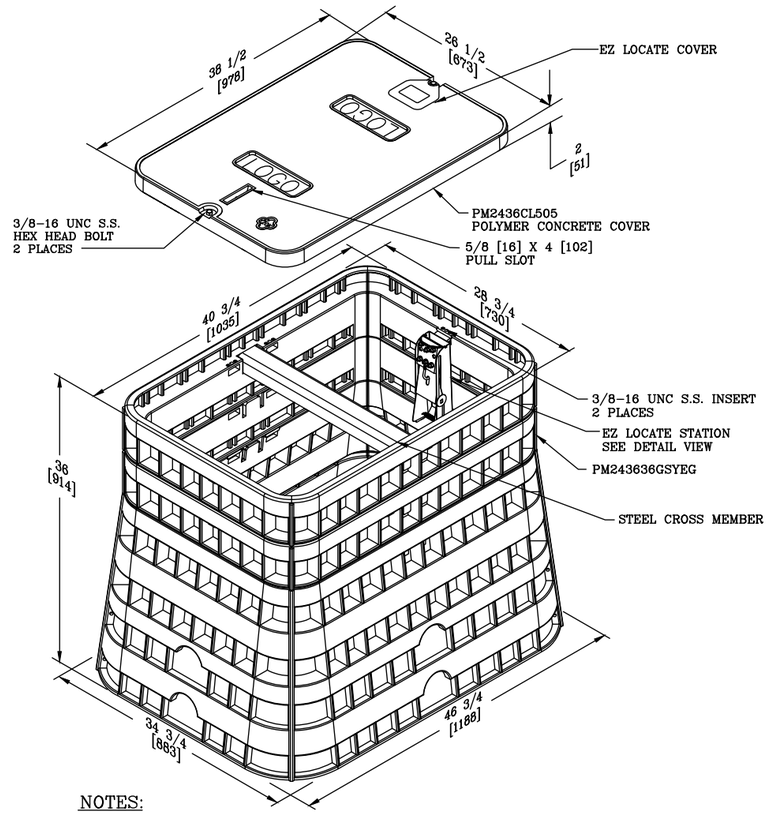
BDO204-EG

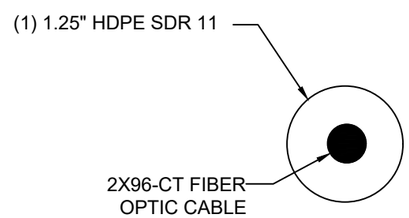




NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

PIPE DETAIL



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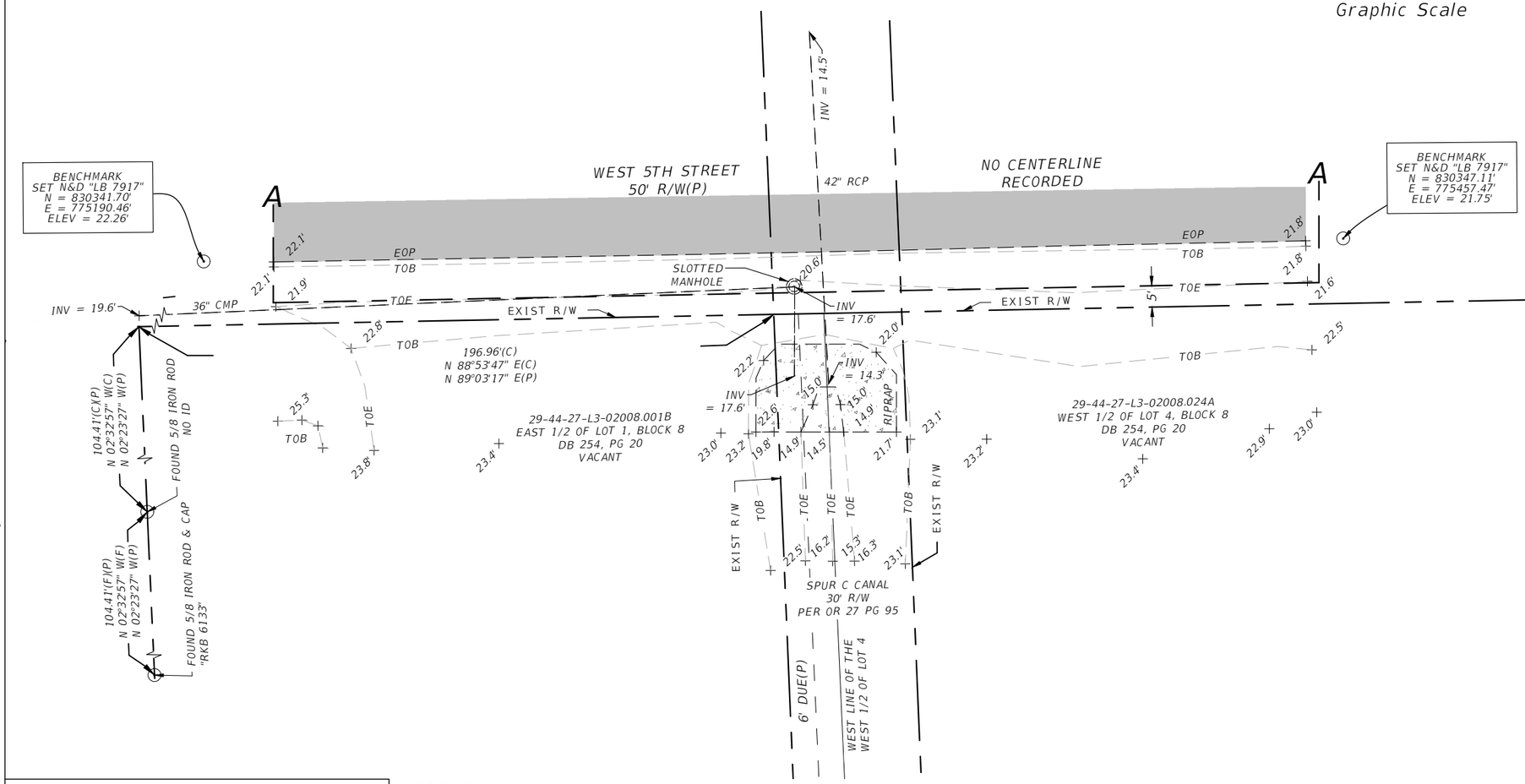
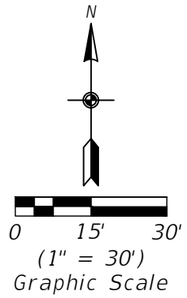
SHEET:	12 OF 12

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW





Topographic Survey of a Subject Project Site

lying within

Section 29, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida

NOTES:

Survey based on the plat of Lehigh Acres as recorded in Plat Book 15 Page 44, Public Records of Lee County, Florida and existing monumentation.

This survey prepared was a Topographic Survey for the purpose of locating the features within and adjacent to the Lehigh Acres Municipal Services Improvement District-managed facility south of West 5th Street between Edison Avenue and Cortez Avenue.

The elevations shown hereon are referenced to the North American Vertical Datum of 1988 (NAVD 1988). All elevations are reported in US survey feet and decimals thereof and are based upon the Florida Permanent Reference Network (FPRN) stations maintained by the Florida Department of Transportation.

The subject site lies within Zone "X" per FEMA insurance rate map 125124 0475F (Published 08/28/2008), therefore has no base flood elevation.

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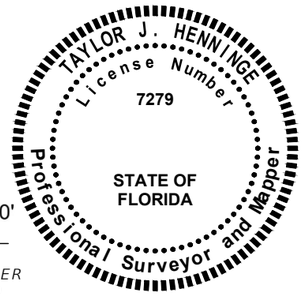
Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 01/03/2026



Taylor Henninge 2026.03.26 13:54:46-04'00'

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

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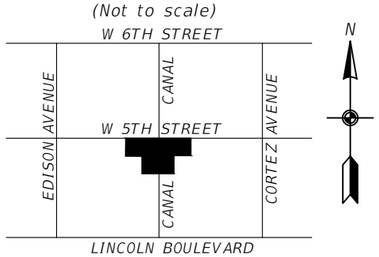
Edison Avenue, Lehigh Acres

Location sketch
(Not to scale)



LEGEND:

(P)	= PER PLAT	N&D	= NAIL AND DISK
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---OE--- = OVERHEAD UTILITY LINE
+20.0 = SPOT ELEVATION
= DRAINAGE MANHOLE

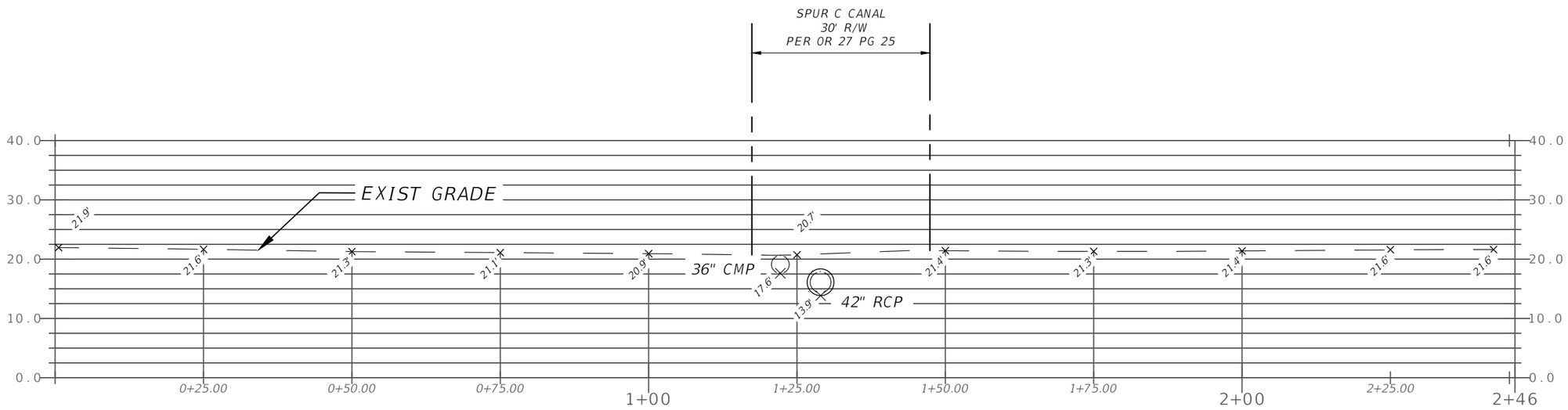
TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
401 Edison Ave.dwg	106981-1/39	106980001-L079

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/03/2026	JRB	TJH	01 OF 02

Topographic Survey of a
Subject Project Site
Section 29, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Edison Avenue, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
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01/03/2026	JRB	TJH	02 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L079-401 EDISON AVE\401 Edison Ave.dwg

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

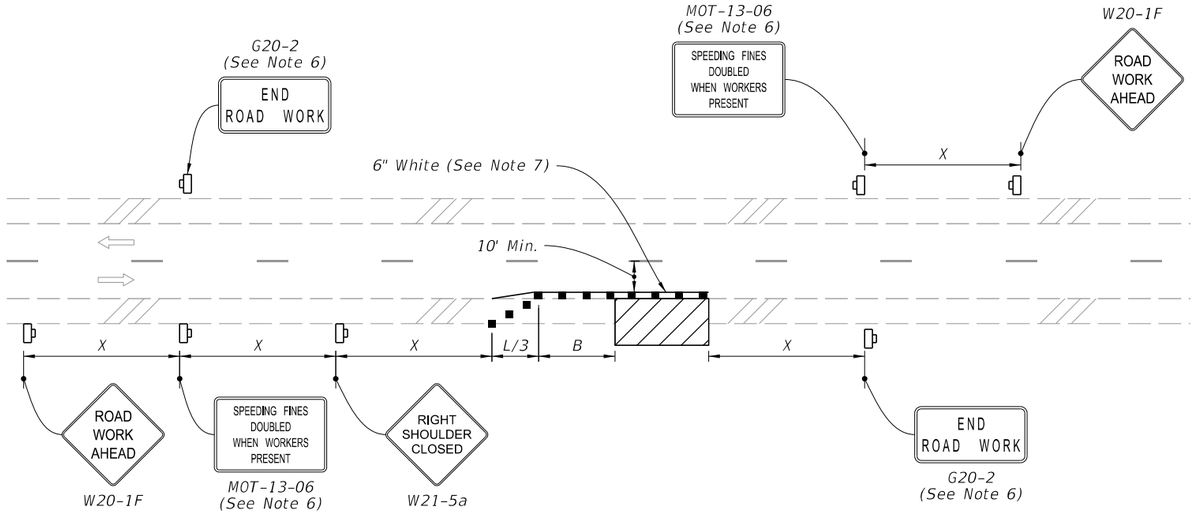
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

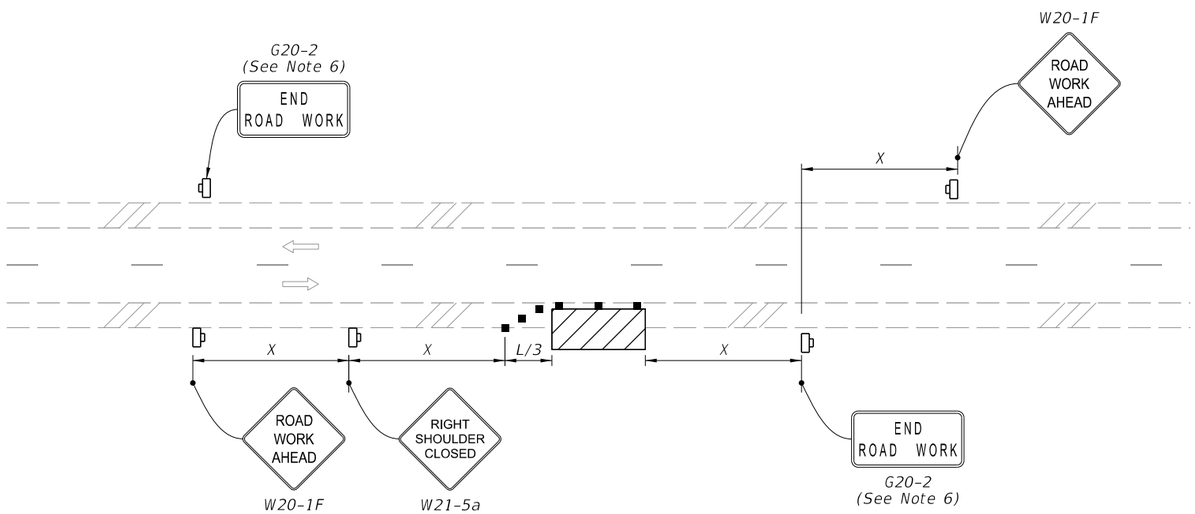
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



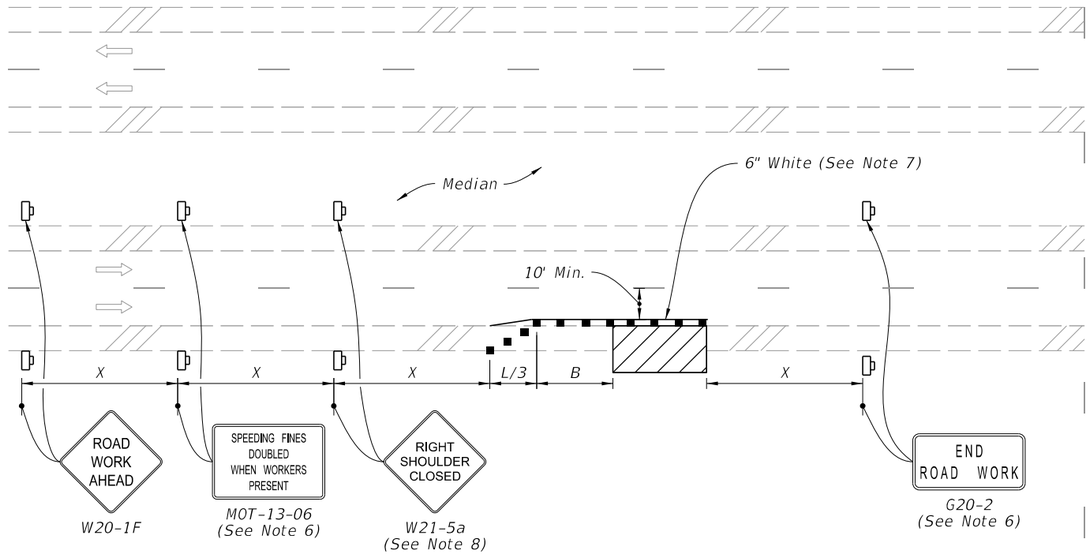
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



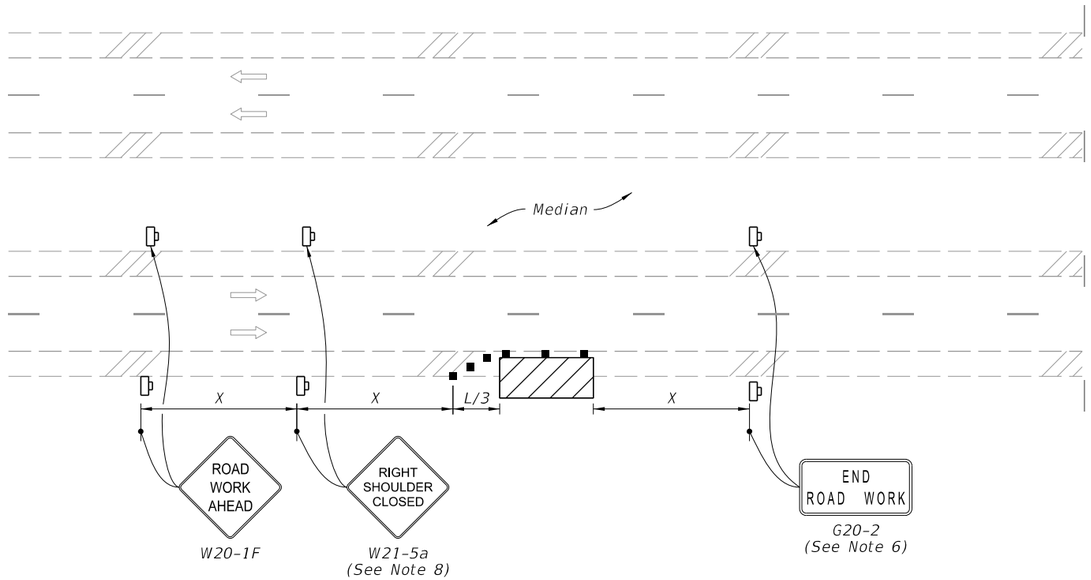
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



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MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FDOT FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

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lying within

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Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
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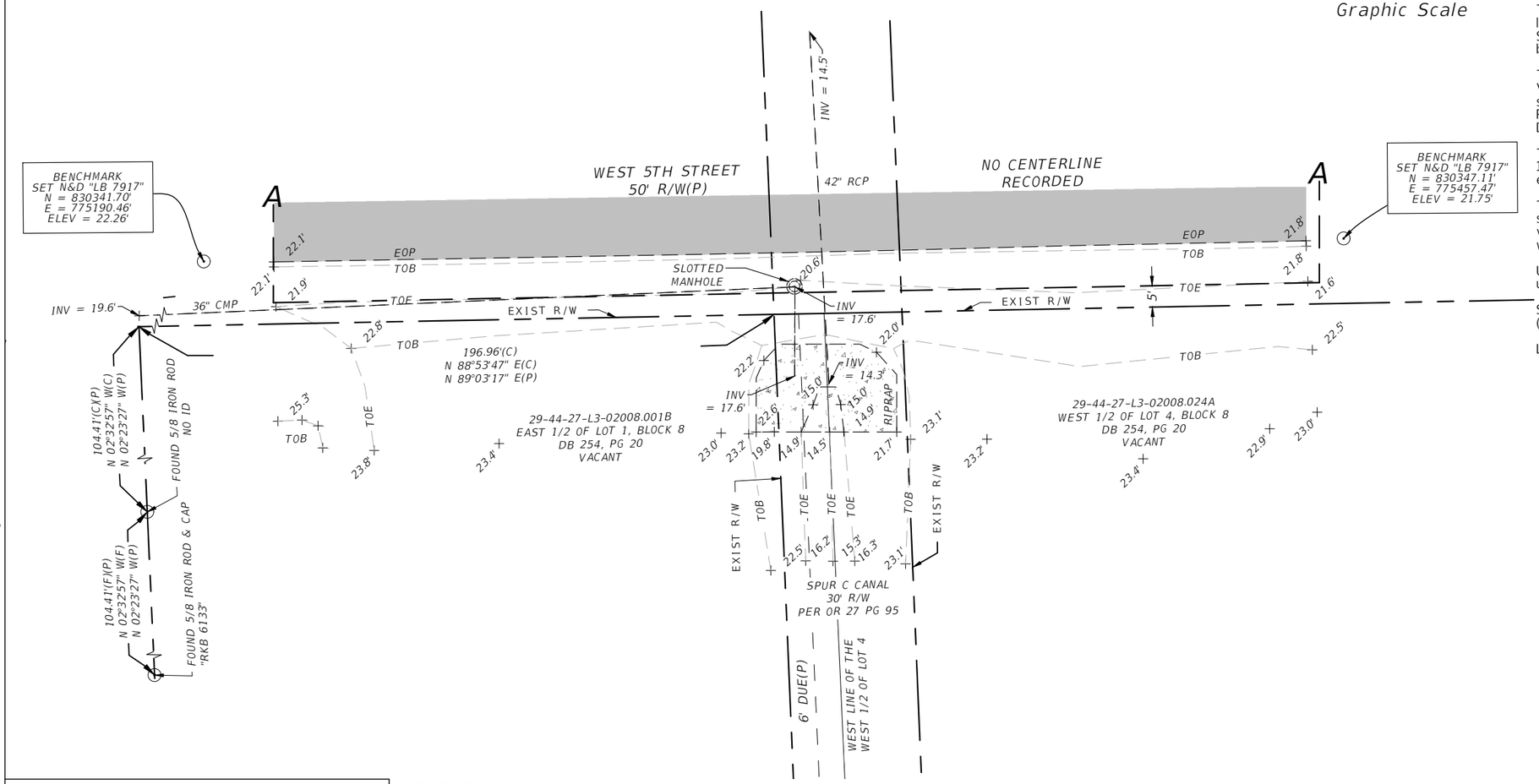

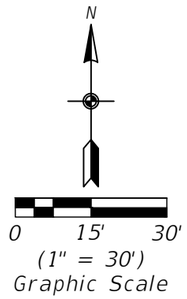

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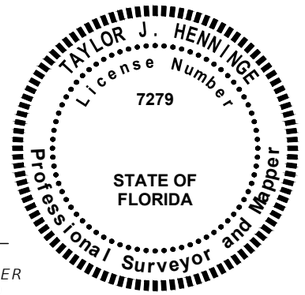

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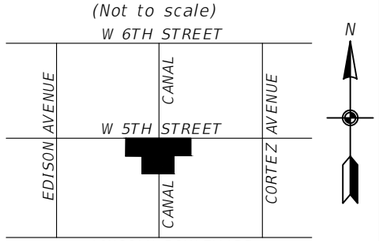

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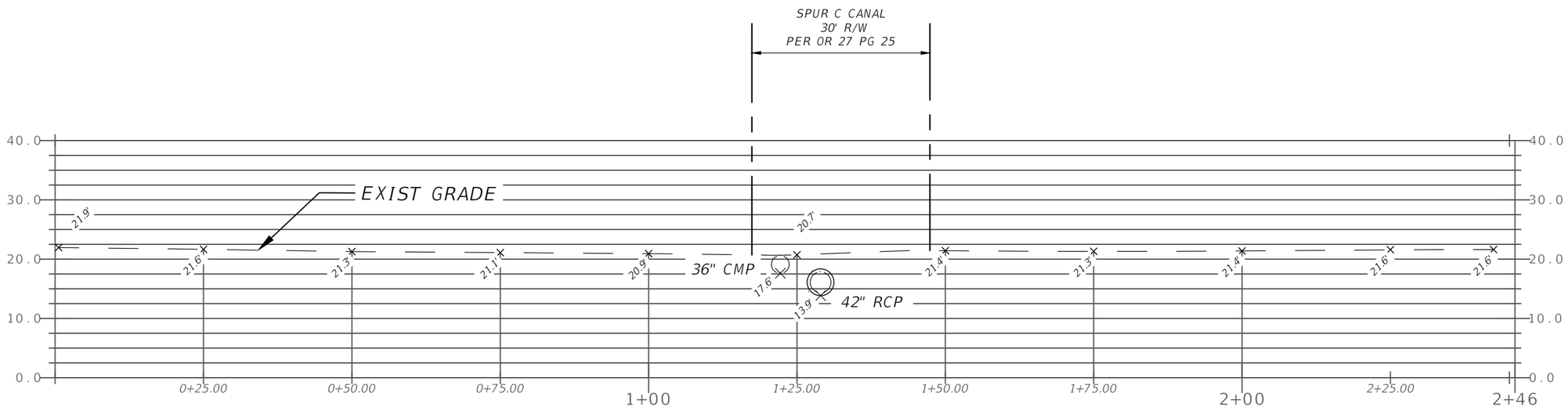
www.mckimcreed.com

File name:	Field book/page:	Project No.:
401 Edison Ave.dwg	106981-1/39	106980001-L079

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/03/2026	JRB	TJH	01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L079-401 EDISON AVE\401 Edison Ave.dwg

Topographic Survey of a
Subject Project Site
Section 29, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Edison Avenue, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
401 Edison Ave.dwg	106981-1/39	106980001-L079

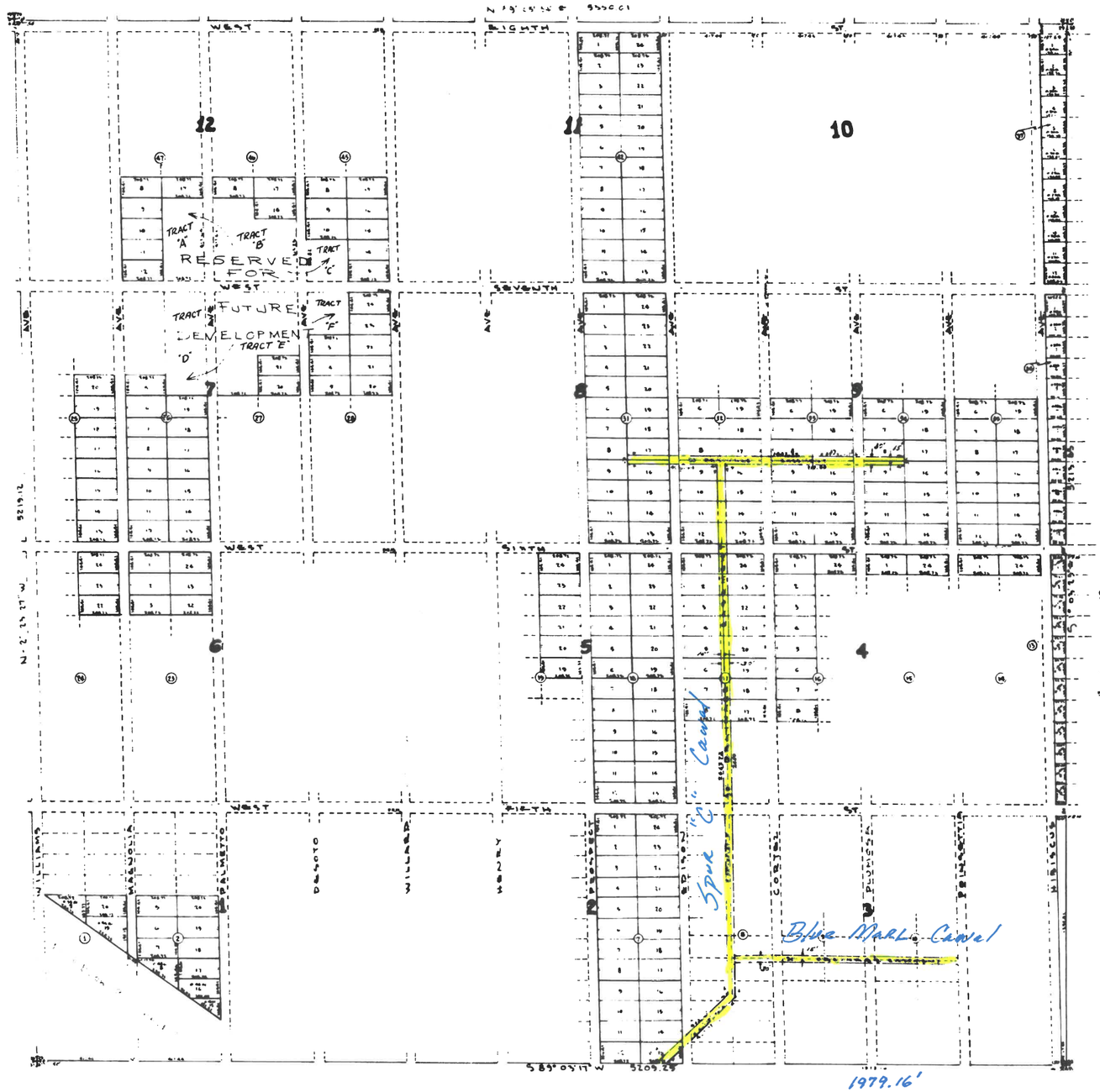
Survey date:	Drawn by:	Checked by:	Sheet No.:
01/03/2026	JRB	TJH	02 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L079-401 EDISON AVE\401 Edison Ave.dwg

Petition to Vacate
Petition No:2000-00059
Description:12ft PUE Lots 18&19;See CCMB
Date of Approval:01/09/01
Resolution No:01-01-16
CCMB:2001R Page:20
Recorded on:02/08/01 OR Book:3362 Page:0162-0165

Petition to Vacate
Petition No:90-16
Description:6ft utility easement btwn
Lots 2&3, Block 40, Unit 10
Date of Approval:07/18/90
Resolution No:90-07-31
CCMB:207 Page:1067

PLAT BOOK 15, PAGE 45



PLAT OF SEC. 29
Twp 44 S - Rge 27 E
LEE County, Fla.

A SUBDIVISION OF
"LEHIGH ACRES"
SHOWING DEVELOPMENT OF RESERVED AREAS

LEE COUNTY LAND & TITLE CO.
DEVELOPERS

SCALE: 0 100 200 300 400
UNIT OF MEASUREMENT: FEET

SEPT. 29, 1956

CERTIFICATE OF SURVEY
I HEREBY CERTIFY that the plat shown hereon is a correct representation of the land as platted, and that permanent reference monuments have been placed as

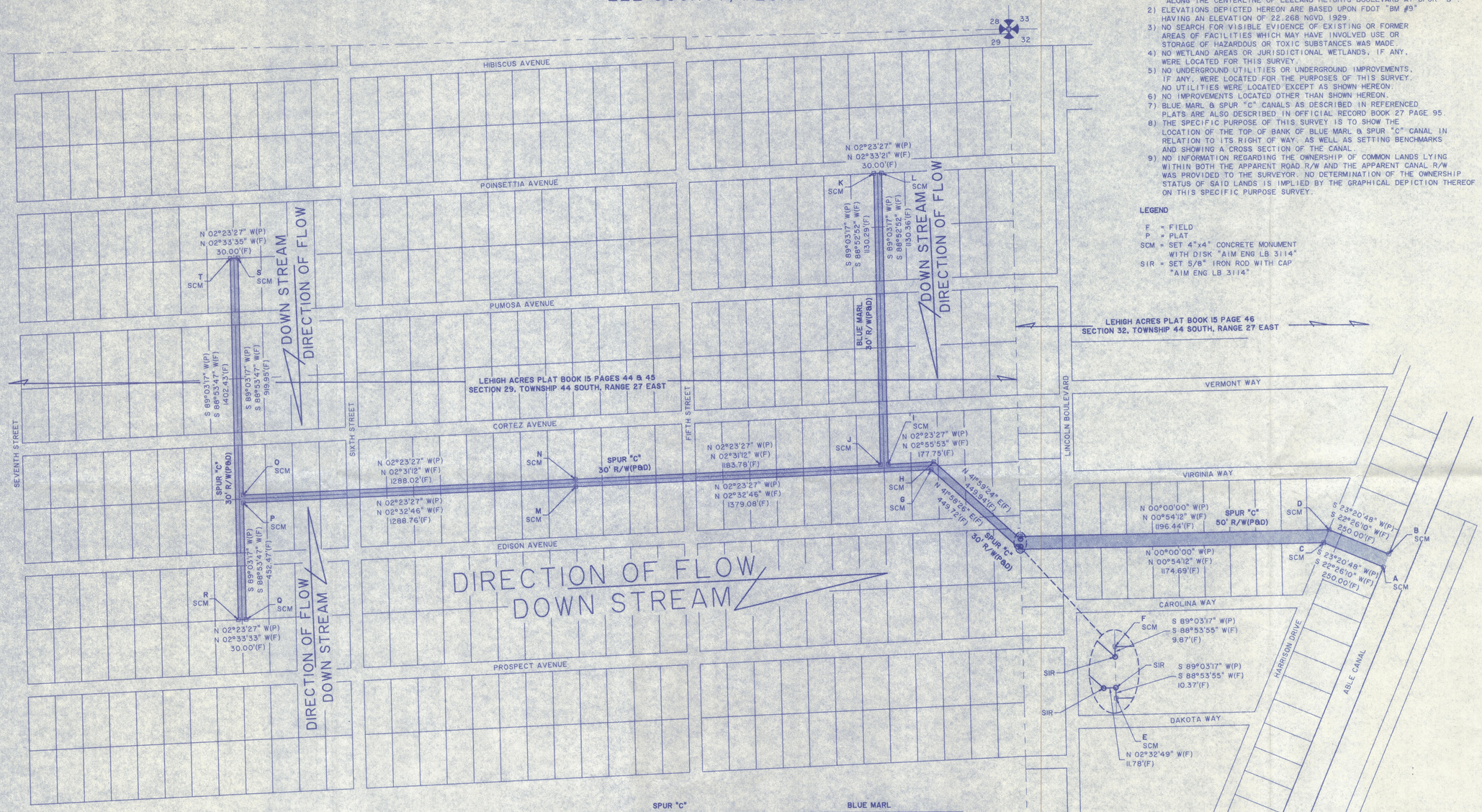
REGISTERED LAND SURVEYOR No. 1092

NOTE
THIS LOT SUBJECT TO L.C.C.D. UTILITY EASEMENT OVER ... AND EXISTING PIPE LINES - 6" CLASS 150 CONCRETE ALL LOT PIPE LINES - 6" CLASS 150 CONCRETE ... UNLESS OTHERWISE NOTED

NOTE
DIMENSIONS, BEARINGS, LOT AND LAND LINES ON DRAWING OF LATEST DATE SHALL GOVERN

Petition to Vacate
Petition No:86-9
Description:Vacation of easement btwn Lots 6&7
Date of Approval:12/10/86
CCMB:177 Page:11

SPECIFIC PURPOSE SURVEY
SECTION 29 & 32, TOWNSHIP 44 SOUTH, RANGE 27 EAST
LEE COUNTY, FLORIDA



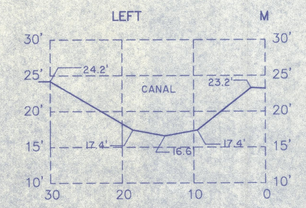
NOTES

1) BEARINGS SHOWN HEREON ARE BASED UPON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, 1983 NORTH AMERICAN DATUM, 1990 ADJUSTMENT, DERIVING A BEARING OF N 00°43'42" E ALONG THE CENTERLINE OF LEELAND HEIGHTS BOULEVARD AT SPUR "B".
2) ELEVATIONS DEPICTED HEREON ARE BASED UPON FDOT "BM #9" HAVING AN ELEVATION OF 22.268 NGVD 1929.
3) NO SEARCH FOR VISIBLE EVIDENCE OF EXISTING OR FORMER AREAS OF FACILITIES WHICH MAY HAVE INVOLVED USE OR STORAGE OF HAZARDOUS OR TOXIC SUBSTANCES WAS MADE.
4) NO WETLAND AREAS OR JURISDICTIONAL WETLANDS, IF ANY, WERE LOCATED FOR THIS SURVEY.
5) NO UNDERGROUND UTILITIES OR UNDERGROUND IMPROVEMENTS, IF ANY, WERE LOCATED FOR THE PURPOSES OF THIS SURVEY. NO UTILITIES WERE LOCATED EXCEPT AS SHOWN HEREON.
6) NO IMPROVEMENTS LOCATED OTHER THAN SHOWN HEREON.
7) BLUE MARL & SPUR "C" CANALS AS DESCRIBED IN REFERENCED PLATS ARE ALSO DESCRIBED IN OFFICIAL RECORD BOOK 27 PAGE 95.
8) THE SPECIFIC PURPOSE OF THIS SURVEY IS TO SHOW THE LOCATION OF THE TOP OF BANK OF BLUE MARL & SPUR "C" CANAL IN RELATION TO ITS RIGHT OF WAY, AS WELL AS SETTING BENCHMARKS AND SHOWING A CROSS SECTION OF THE CANAL.
9) NO INFORMATION REGARDING THE OWNERSHIP OF COMMON LANDS LYING WITHIN BOTH THE APPARENT ROAD R/W AND THE APPARENT CANAL R/W WAS PROVIDED TO THE SURVEYOR. NO DETERMINATION OF THE OWNERSHIP STATUS OF SAID LANDS IS IMPLIED BY THE GRAPHICAL DEPICTION THEREOF ON THIS SPECIFIC PURPOSE SURVEY.

LEGEND

F = FIELD
P = PLAT
SCM = SET 4"x4" CONCRETE MONUMENT WITH DISK "AIM ENG LB 3114"
SIR = SET 5/8" IRON ROD WITH CAP "AIM ENG LB 3114"

200 0 100 200 400
SCALE IN FEET



CANAL CROSS SECTION AT M

SPUR "C"

POINT	ELEV	TOP OF BANK LOCATION LOOKING DOWN STREAM
A	19.30'	15' LEFT
B	19.77'	15' RIGHT
C	23.62'	8' LEFT
D	23.27'	15' RIGHT
E	20.71'	ON LINE
F	23.53'	ON LINE
G	21.85'	3' LEFT
H	22.28'	2' RIGHT
I	20.15'	4' LEFT
J	20.86'	2' LEFT
M	23.70'	2' LEFT
N	24.43'	ON LINE
O	21.04'	4' RIGHT
P	21.63'	2' LEFT
Q	21.89'	ON LINE
R	21.30'	ON LINE
S	22.93'	3' RIGHT
T	22.50'	15' LEFT

BLUE MARL

POINT	ELEV	TOP OF BANK LOCATION LOOKING DOWN STREAM
I	20.15'	ON LINE
J	20.86'	4' LEFT
K	23.12'	PROJECTION 4' LEFT
L	23.11'	PROJECTION 5' RIGHT

THIS SURVEY REFLECTS THE DESCRIPTION PROVIDED BY THE CLIENT. NO ABSTRACT EXAMINATION IS MADE AND THERE MAY BE OTHER EASEMENTS OR RESTRICTIONS EMBOSSED WITH SEAL. BEARINGS SHOWN HEREON ARE ASSUMED UNLESS OTHERWISE NOTED. INFORMATION HEREON IS SUBJECT TO EASEMENTS, RESTRICTIONS, AND RESERVATIONS OF RECORD. THE CERTIFICATION OF THIS SURVEY APPLIES ONLY TO THE PERSON/PERSONS SHOWN.

AIM Engineering & Surveying, Inc.
5300 LEE BOULEVARD - P.O. BOX 1235
LEHIGH ACRES, FLORIDA 33970
(941) 332-4569 (800) 226-4569
FAX (941) 332-8754 L.B. #3114

NO.	DATE	BY	REVISION DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			
9			

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

PREPARED BY: AIM ENGINEERING AND SURVEYING, INC.

8-18-00
DATE
ROBERT TAD SIMPSON, P.S.M.
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE No. 5959

LAST DATE OF FIELD WORK: 8/17/00

FIELD BY:	JC	DATE:	8/17/00
DRAWN:	LWC	DATE:	8/23/00
CHECKED:	RTS	DATE:	8/23/00

SURVEY RECORD

FIELD BOOK: 699/702 PAGE: 68-72,96-158/2-12
LOT: BLOCK: UNIT:
SECTION: 29&32 TOWNSHIP: 44 SOUTH RANGE: 27 EAST
SUBDIVISION NAME: LEHIGH ACRES
PLAT BOOK: 15 PAGE: 3
COUNTY: LEE
CLIENT NAME: ECWCD
PROJECT SHORT TITLE: SPUR C & BLUE MARL CANALS
PLAN: SHEET: 1
FILE NAME: 7784-304
PROJECT NUMBER: 00-7784 OF 1

D:\jobs-LINDA\7784-COMO\7784-304-SPUR C-BLUE MARL\7784-304.dwg Mon Aug 28 09:11:45 2000 LMC

246755 REC. 27 PAGE 95

RIGHT OF WAY DEED

THIS INDENTURE, Made this 2nd day of September, 1960, between LEE COUNTY LAND AND TITLE COMPANY, a Florida corporation, as party of the first part, and BOARD OF SUPERVISORS OF EAST COUNTY WATER CONTROL DISTRICT, a drainage district under the laws of the State of Florida, as party of the second part,

WITNESSETH, That the party of the first part, for and in consideration of the sum of One Dollar ($1.00) and other valuable considerations paid, receipt of which is hereby acknowledged, does hereby grant, remise, release, quit-claim and convey unto the party of the second part, its successors and assigns forever the following described land, situate, lying and being in the County of Lee, State of Florida, to-wit:

SPUR "C" CANAL: Beginning at a point on the South line of Section 29, Township 44 South, Range 27 East, 1979.16 feet West of the Southeast corner thereof; thence North 42°-07'-46" East, a distance of 450.07 feet; thence North 02°-23'-27" West, a distance of 2680 feet; thence North 89°-03'-17" East, a distance of 919.88 feet; thence North 02°-23'-27" West, a distance of 30 feet; thence South 89°-03'-17" West, a distance of 1402.32 feet; thence South 02°-23'-27" East, a distance of 30 feet; thence North 89°-03'-17" East, a distance of 452.44 feet; thence South 02°-23'-27" East, a distance of 2667.72 feet; thence South 42°-07'-47" West, a distance of 449.57 feet; thence South 02°-23'-27" East, a distance of 11.78 feet, more or less, to the South line of said Section 29; thence South 89°-03'-17" West, a distance of 10 feet; thence South 0°-44'-47" East, a distance of 1174.35 feet; thence South 22°-36'-01" West, a distance of 250 feet; more or less to the Northeasterly right of way line of Able Canal; thence South 67°-23'-59" East, along said right of way line 54.46 feet; thence North 22°-36'-01" East, a distance of 250 feet; thence North 0°-44'-47" West a distance of 1196.11 feet more or less to the South line of said Section 29; thence South 89°-03'-17" West, along said South line 10 feet to the point of beginning. Containing 4.76 acres more or less. All bearings and distances are with relation to those shown in plats of Section 29 as recorded in Deed Book 263, Page 344, and Section 32 as recorded in Deed Book 256, page 580.

SPUR "B" CANAL: A strip of land 50 feet in width, being 25 feet on each side of the following described center line: Commencing at a point in the West line of Section 32, Township 44 South, Range 27 East, 2311.37 feet South of the Northwest corner thereof; thence North 71°-22'-27" East, a distance of 1043.47 feet; thence North 49°-22'-27" East, a distance of 1226.77 feet, more or less, to the intersection of the Westerly right of way line of Spur "A" Canal, and there terminating. Containing 2.61 acres, more or less.

MAN CANAL: A strip of land 80 feet in width, being 40 feet on each side of the following described center line: Beginning at a point on the South line of Section 27, Township 44 South, Range 27 East, 1271.04 feet West of the Southeast corner thereof; thence North 0°-03'-24" East, a distance of 1252.65 feet and there terminating. Containing 2.30 acres more or less.

SPUR "A" CANAL: A strip of land 50 feet in width, being 25 feet on each side of the following described center line: Commencing at a point on the South line of Section 32, Township 44 South, Range 27 East, 1967.21 feet East of the Southwest corner thereof; thence North 23°-30'-13" East, a distance of 1492.80 feet; thence North 23°-51'-16" West, a distance of 1584.75 feet; thence North 0°-44'-47" West, a distance of 516.38 feet; thence North 5°-03'-22" East, a distance of 1078.11 feet, more or less, to the Southerly right of way line of Able Canal, and there terminating. Except that part taken for Leeland Heights Boulevard. Containing 5.27 acres more or less.

BLUE MARL CANAL: A strip of land 30 feet in width, being 15 feet on each side of the following described center line: Beginning at the intersection of the North line of Lot 17, Block 10, Unit 3 of Plat of Section 29, Township 44 South, Range 27 East, as recorded in Deed Book 263, Page 344, Lee County, Florida, and the West right of way line of Poinsettia Avenue, same plat; thence West along the North line of said Lot 17, and 8, Block 10, and its extension across Plumosa Avenue. Lots 17 and 8, Block 9 and its extension across Cortez Avenue, Lot 17, Block 8 to the East right of Way line of Spur "C" Canal and there terminating. Containing 0.78 acres more or less.

CANAL IN UNIT 5, SECTION 33, TOWNSHIP 44 SOUTH, RANGE 27 EAST, LYING IMMEDIATELY EAST OF MAPLE AVENUE: Beginning at the Southeast corner of Section 33, Township 44 South, Range 27 East, go North 0°-6'-48" West a distance of 2139.57 feet; thence North 59°-54'-27" West, a distance of 802.33 feet; thence South 88°-58'-52" West, a distance of 88.94 feet to the point of beginning of the land to be described; thence South 0°-6'-48" East, a distance of 835.11 feet; thence South 88°-58'-52" West, a distance of 50 feet; thence North 0°-6'-48" West, a distance of 835.11 feet; thence South 88°-58'-52" West, a distance of 50 feet to the point of beginning, containing 0.96 acres more or less.

JIG CANAL: The North 80 feet of Section 33 and 34, Township 44 South, Range 27 East, except the East 80 feet of the North 80 feet in Section 34, Township 44 South, Range 27 East and the West 80 feet of Section 33, Township 44 South, Range 27 East, North of Able Canal. Containing 19.11 acres more or less.

This deed is made for the purpose of giving and granting to the party of the second part, its successors, legal representatives and assigns, a right of way and easement in and to said land to make or cause to be made or constructed thereon, such canals, sluice-ways, dikes, roads and other works as may in the judgment of said party of the second part, or its successors, be necessary and needful for the drainage or reclamation of any of the lands in the East County Water Control District; or for ingress and egress thereto; and is made, executed and delivered with the express understanding and condition that should the same ever be discontinued or abandoned for such purpose the title to the same shall thereupon revert to and revest in the party of the first part, its successors and assigns.

OFF. REC. 27 PAGE 97

TO HAVE AND TO HOLD THE SAME, together with all and singular the appurtenances thereto belonging or in anywise incident or appertaining, and all the estate, right, title, interest and claim whatsoever of the party of the first part, in law or in equity, to the only proper use, benefit and behoof of the said party of the second part, its successors and assigns.

IN WITNESS WHEREOF, the said party of the first part has caused these presents to be signed in its name by its proper officers, and its corporate seal to be affixed, attested by its Secretary, the day and year above written.

Signed, sealed and delivered in the presence of:

Eileen Holman

Barbara Nielsen

LEE COUNTY LAND AND TITLE COMPANY

By Gerald H. Gould (SEAL) President

Attest: Edward Shapiro (SEAL) Secretary

STATE OF FLORIDA }
COUNTY OF DADE }

I HEREBY CERTIFY, that on this day in the next above named State and County, before me, an officer duly authorized and acting personally appeared GERALD H. GOULD and EDWARD SHAPIRO, President and Secretary respectively of LEE COUNTY LAND AND TITLE COMPANY, to me well known and known to me to be the individuals described in and who executed the foregoing right of way deed, and they acknowledged then and there before me that they executed said right of way deed.

WITNESS my hand and official seal this 2 day of September, 1960.

Sylvia Bellman
Notary Public - State of Florida

My commission expires [illegible]

STATE OF FLORIDA, COUNTY OF LEE
FILED FOR RECORD
This 7th Day of Sept 1960 Record In Off.
Book 27 Page 95 and Record Verified.
D. T. FARABEE By [illegible] Deputy Clerk
Clerk Circuit Court

-3-

PART IV #26-72

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ Approved ___ Denied ___

District Manager: _____ Date: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Spur C Canal (47-29-2) at Edison Ave., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Fox Canal (47-9-9), along the west side of Richmond Ave. N., between Tremaine St. & 17th St. E., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-73

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-73 is approved according to the plans submitted April 28th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 125' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Richmond Ave. N.

PART I

DATE SUBMITTED: 04 - 28 - 26

PERMIT #: 26 - 73

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: TEP-OPCO, LLC **PHONE #:** (502)552-2733

PROJECT NAME: U38567 - FOX CANAL - 1721 RICHMOND AVE N

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 1721 RICHMOND AVE N					
Mailing Address:					
City:	LEHIGH ACRES	**State:**	FL	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary):*

0	9	-	4	4	-	2	7	-	L	4	-	0	6	0	2	1	-	0	2	1	0
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				

Brief description of proposed project:

Application for:

Directional bore placing 125' of (2) 1.25" HDPE SDR 11 Conduit Equipped with (1) 288-CT Microfiber Optic cable under Fox Canal along the West side of Richmond Ave N. between Tremaine St and 17th St. E

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$ 2,625.00 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	Lumos Fiber of Florida, LLC						
Mailing Address:	**Street:**	4100 Mendenhall Oaks Parkway, Suite 300					
City:	High Point	**State:**	NC		**Zip:**	27265	
Phone No.	**Area Code:**	515	**Number:**	306-3403	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	william.kiefer@lumosfiber.com						

B. **Relationship of applicant to property*:**

☐ **Owner*** ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee***

☐ **Contract Purchaser*** ☑ **Other (indicate)*** Utility

C.

Name of Developer:						
Mailing Address:	**Street:**					
City:		**State:**			**Zip:**	
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:						

D.

Name of Authorized Agent(s):	TEP OPCO, LLC.					
Mailing Address:	**Street:**	5906-A Breckenridge Pkwy				
City:	Tampa	**State:**	FL		**Zip:**	33610
Phone No.	**Area Code:**	(502)	**Number:**	552-2733	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:	FL-permitting@tepgroup.net					

E.

Name of Property Owner:						
Mailing Address:	**Street:**					
City:		**State:**			**Zip:**	
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-		
E-mail Address:						

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

PRIMARY STRAP NUMBER: ☐☐-☐☐-☐☐-☐☐-☐☐☐☐☐-☐☐☐☐

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership
N/A	

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock
N/A	

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest
N/A	

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest
N/A	

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest
N/A	

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest
N/A	

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

William Kiefer
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 28th day of April (m), 2026 (y), by William Kiefer who is personally know to me or has produced _____ as identification.

Anna M. Baker
SIGNATURE OF NOTARY PUBLIC

Anna M. Baker
PRINTED NAME OF NOTARY PUBLIC

NOTARY PUBLIC STATE OF FLORIDA
ANNA M. BAKER
MY COMMISSION # HH 582094
EXPIRES: August 13, 2028

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

ENGINEER

Name:	TEP-OPCO, LLC JOSH CARDEN						
Mailing Address:	326 Tyron Road						
City:	Raleigh	**State:**	NC			**Zip:**	27603
Business No.	**Area Code:**	(336)	**Number:**	214 -2099		**Ext.**	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	McKim & Creed						
Mailing Address:	5701 Division Drive, Suite A						
City:	Fort Myers	**State:**	FL			**Zip:**	33905
Business No.	**Area Code:**	(239)	**Number:**	275 - 8875		**Ext.**	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES SUB'D	NO. OF COPIES REQ'D	SUBMITTAL DOCUMENT
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
	2	**Permit Application** (PARTS I & II)
	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
	1	**Check for appropriate Permit Fees** made out to LA-MSID.

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/11/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-73	Lumos Bore under Fox Canal (47-9-9) At Richmond Ave. N.	Total Fee $2,625.00
	Permit Fee: $750 + $15 x 125' R/W = $750 + $1875	Due From Deposit
	Total Fee = $2,625.00	
	TOTAL	$2,625.00

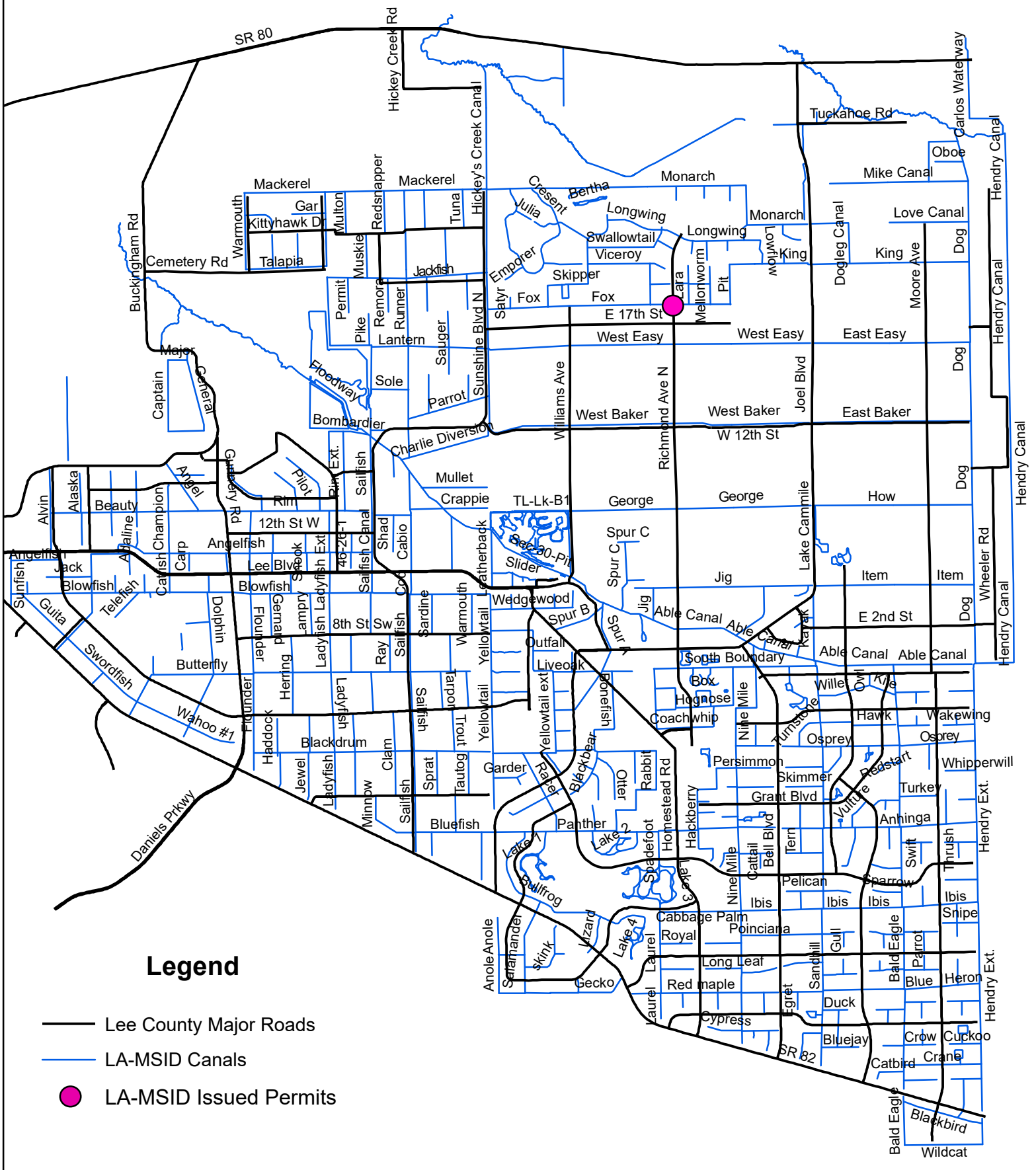
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/11/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs. Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry.**

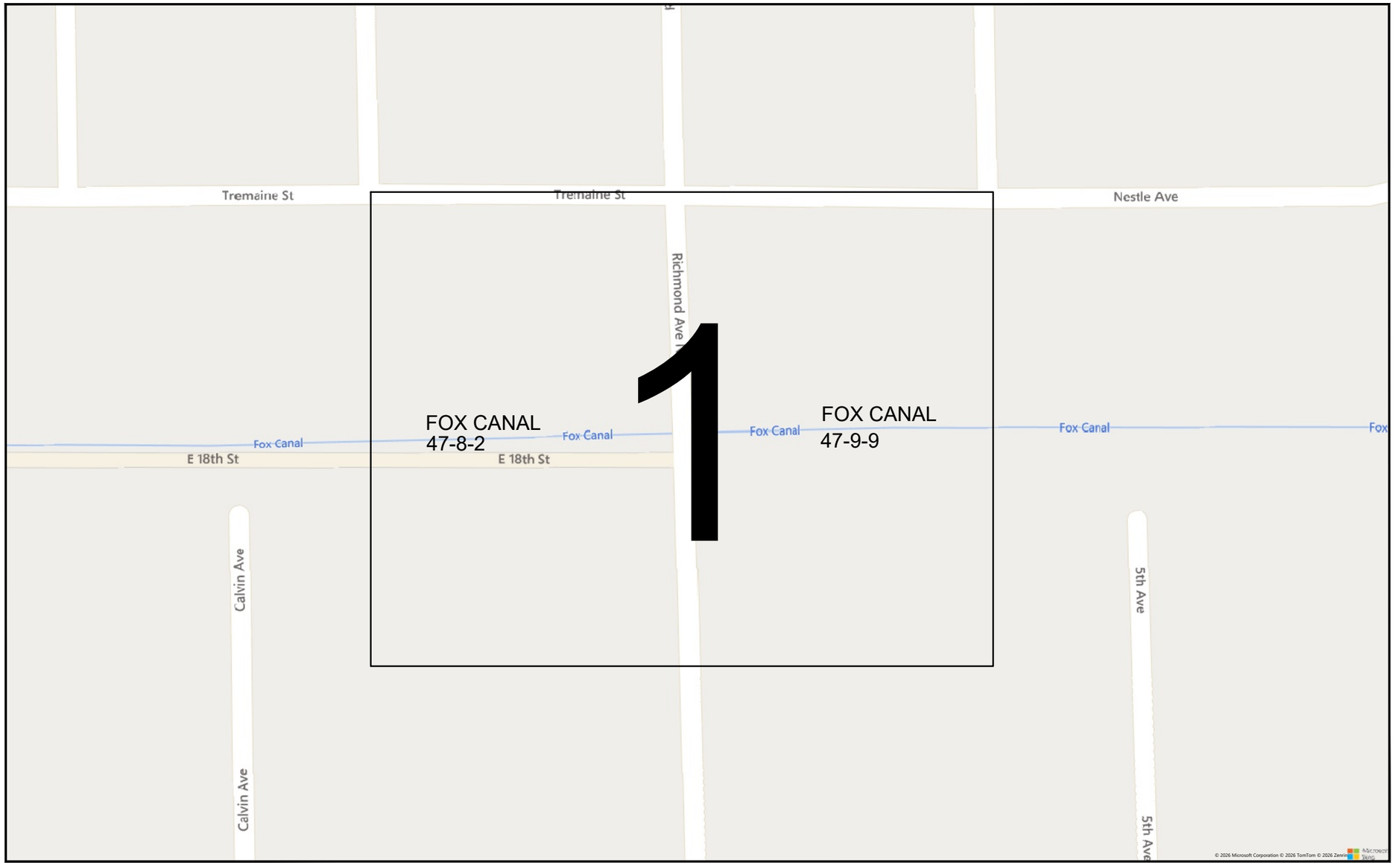
*The CR account will need to be changed based on the customer. See accounting to setup new customer deposit accounts.

Permit # 2026-73


SR 80
Hickey Creek Rd
Hickey's Creek Canal
Tuckahoe Rd
Carlos Waterway
Hendry Canal
Oboe
Mike Canal
Love Canal
Dog
Buckingham Rd
Cemetery Rd
Mackerel
Gar
Kittyhawk Dr
Talapia
Warmouth
Multon
Redsnapper
Tuna
Muskie
Jackfish
Permit
Pike
Remora
Runner
Lantern
Sauger
Sunshine Blvd N
Satyr
Emperor
Julia
Cresent
Bertha
Longwing
Swallowtail
Viceroy
Skipper
Fox
Monarch
Lowman
Pit
Mellonworm
Lara
King
Dogleg Canal
Moore Ave
E 17th St
West Easy
East Easy
Major General
Captain
Floodway
Sole
Parrot
Bombardier
Charlie Diversion
Williams Ave
Richmond Ave N
Joel Blvd
West Baker
East Baker
W 12th St
Mullet
Crappie
TL-Lk-B1
George
How
Spur C
Jig
Item
Lake Cammile
Wheeler Rd
Able Canal
Able Canal Kayak
E 2nd St
South Boundary
Outfall
Liveoak
Wedgewood
Slider
Beck30-Pit
Spur B
Spur A
Latterback
Warmouth
Yellowtail
Yellowtail ext
Bonefish
Box
Hognose
Coachwhip
Nine Mile
Turnstone
Willet
Owl
Kite
Hawk
Osprey
Wakewing
Whipperwill
Redstart
Vulture
Turkey
Anhinga
Swift
Thrush
Hendry Ext.
Pelican
Sparrow
Ibis
Snipe
Eagle
Parrot
Heron
Blue
Gull
Sandhill
Egret
Duck
Bluejay
Crow
Cuckoo
Crane
Catbird
Blackbird
Wildcat
Fly Catcher
Persimmon
Skimmer
Grant Blvd
Bell Blvd
Tern
Cattail
Hackberry
Homestead Rd
Spadefoot
Rabbit
Otter
Blackbear
Raccoon
Garder
Panther
Bluefish
Lake 1
Lake 2
Lake 3
Lake 4
Bullfrog
Lizard
Skink
Gecko
Anole
Salamander
Cabbage Palm
Royal
Poinciana
Long Leaf
Red maple
Laurel
Cypress
Daniels Prkwy
Swordfish
Wahoo #1
Butterfly
Dolphin
Flounder
Herring
Haddock
Blackdrum
Jewel
Ladyfish
Minnow
Clam
Sprat
Tautog
Trout
Sailfish
Ray
Sardine
Cobia
Shad
Sailfish Canal
Ladyfish Ext
46-26-1
Snook
Lee Blvd
Blowfish
Telefish
Guita
Sunfish
Jack
Angelfish
Carp
Catfish
Champion
Alkaline
Alvin
Alaska
Beauty
Angel
Church
Rd
Pilot
Rim
Rim Ext.
12th St W
8th St Sw
Cod
Ladyfish
Gannard
Founder
Lampry
Mullet
Crappie
Slider
Jig
Able Canal
Able Canal
Able Canal

U38567 - FOX CANAL - 1721 RICHMOND AVE N-LA-MSID-1

1721 RICHMOND AVE N, LEHIGH ACRES, FL 33972 (26.665345, -81.625743)



Know what's below
Call before you dig.

N

PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 400' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 288-CT MICROFIBER OPTIC CABLE. (2) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

SHEET INDEX

A - COVER SHEET
B - SOW & CONTACTS
C - LEGEND
D1-D2 - GENERAL NOTES
E - CONSTRUCTION NOTES
F-H - TYPICALS
1- 1 - PROJECT SHEETS
1A - PROFILE VIEW
I1 - I2 - IMAGES

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, PLLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, PLLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEPDB OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY. THESE DRAWINGS ARE INTENDED TO DEPICT FIBER OPTIC CABLES, CONDUITS, AND RELATED INFRASTRUCTURE WITHIN THE PUBLIC RIGHT-OF-WAY (R/W) OR AREAS WITH VALID, RECORDED EASEMENTS OR LEASES, HOWEVER R/W LOCATIONS ARE BASED SOLELY ON GEOGRAPHIC INFORMATION SYSTEMS (GIS) DATA FROM THE LOCAL JURISDICTION. SURVEYS TO VERIFY R/W OR PROPERTY BOUNDARIES WERE NOT PERFORMED. WHERE INSTALLATION ROUTES EXTEND BEYOND THE R/W, THE UTILITY OWNER/OPERATOR IS SOLELY RESPONSIBLE FOR SECURING AND PROVIDING ALL NECESSARY EASEMENTS, LEASES, OR PROPERTY RIGHTS PRIOR TO CONSTRUCTION. CONTRACTORS SHALL RELY ON THE UTILITY OWNER/OPERATOR'S DOCUMENTATION AND ARE RESPONSIBLE FOR ENSURING THAT CONSTRUCTION OCCURS ONLY WITHIN AUTHORIZED AREAS. TEP, THE ENGINEER, DESIGNER, AND CREATOR OF THESE DRAWINGS ASSUME NO RESPONSIBILITY OR LIABILITY FOR UNAUTHORIZED PLACEMENT OF UTILITIES OUTSIDE THE PUBLIC R/W OR ON PRIVATE PROPERTY WITHOUT PROPER LEGAL AUTHORIZATION. ALL INSTALLATIONS MUST COMPLY WITH APPLICABLE LAWS AND REGULATIONS.

TEP OPCO, LLC
5906-A Breckenridge Pkwy, Tampa, FL 33610
FL COA# 31011
Shaine Herrick - Project Manager
sherrick@tepgroup.net

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush
jason.bush@lumosfiber.com
Phone: (850) 428-1313

REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

This item has been digitally signed and sealed by JOSHUA H. CARDEN on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SHEET TITLE:
COVER PAGE

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38567
DESCRIPTION:	1721 RICHMOND AVE N
DRAWING NAME:	U38567 - FOX CANAL - 1721 RICHMOND AVE N-LA-MSID-1
SHEET:	A of 1

CONFIDENTIAL/PROPRIETARY

SCOPE OF WORK

- BURIED PLACEMENT OF 400' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 288-CT MICROFIBER OPTIC CABLE. (2) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush
jason.bush@lumosfiber.com
Phone: (850) 428-1313

ENGINEERING COMPANY

TEP OPCO, LLC
5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

DIRECTOR - OSP OPERATIONS:
ALEX MORA
OFFICE : 704-751-1123
AMORA@TEPGROUP.NET

PROJECT MANAGER:
SHAINE HERRICK
SHERRICK@TEPGROUP.NET

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

COMCAST
CHAD EVENER
(941) 356-1564

FLORIDA POWER & LIGHT--LEE
FPL CABLE LOCATIONS-DISTRIBUTION SDD/MPE - EDGAR.AGUILAR@FPL.COM, JAMIE.PURNELL@FPL.COM

LUMOS FIBER OF FLORIDA, LLC
JASON BUSH
(850) 428-1313
JASON.BUSH@LUMOSFIBER.COM

FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

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TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

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SHEET TITLE:
SOW & CONTACTS

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38567
DESCRIPTION:	1721 RICHMOND AVE N
DRAWING NAME:	U38567 - FOX CANAL - 1721 RICHMOND AVE N-LA-MSID-1
SHEET:	B of 1

CONFIDENTIAL/PROPRIETARY

LEGEND

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL / DESCRIPTION

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR → PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F	IN:	0
	OUT:	0

SEQUENTIAL CALLOUT

#F	IN:	0
	TAIL:	0

SEQUENTIAL IN TAIL CALLOUT

#F	TAIL:	0
	OUT:	0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'–0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT
FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'–0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT
FROM 1 TO 6 ATTACHMENTS

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC — FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

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SHEET TITLE: LEGEND

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38567
DESCRIPTION:	1721 RICHMOND AVE N
DRAWING NAME:	U38567 - FOX CANAL - 1721 RICHMOND AVE N-LA-MSID-1

SHEET: C of 1

CONFIDENTIAL/PROPRIETARY

GENERAL NOTES

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

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SHEET TITLE:
GENERAL NOTES

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38567
DESCRIPTION:	1721 RICHMOND AVE N
DRAWING NAME:	U38567 - FOX CANAL - 1721 RICHMOND AVE N-LA-MSID-1

SHEET:
D1 of 1

CONFIDENTIAL/PROPRIETARY

GENERAL NOTES

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

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SHEET TITLE:
GENERAL NOTES

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38567
DESCRIPTION:	1721 RICHMOND AVE N
DRAWING NAME:	U38567 - FOX CANAL - 1721 RICHMOND AVE N-LA-MSID-1

SHEET:
D2 of 1

CONFIDENTIAL/PROPRIETARY

FDOT CONSTRUCTION NOTES

1. Aerial crossings of State roads involving temporary lane closures are to be done between the hours of 12:00 am and 5:00 am Monday through Thursday unless previously approved by the Department.

2. When directional bore is the method of installation, a minimum 24-inch separation shall be maintained from all existing utilities unless supervised, ITS/ATMS lines, and storm drain systems while maintaining the minimum required depth under pavement or non-paved ground.

3. If the proposed utility cannot be installed per the approved permitted plan and by FDOT specifications, a revised plan must be provided to the Department for review and approval prior to the installation of products or materials at the given locations where conflicts occur.

4. Any new proposed plan shall include cross sections, plan views and profiles of the State road adequately reflecting all right-of-way features including but not limited to existing utilities, storm drain systems and any above or below ground appurtenances where applicable.

5. No pedestrian pathway is to be removed, blocked, or disturbed without having a sufficient designated temporary pedestrian pathway with all appropriate pedestrian maintenance of traffic signs (Index 660) in-place prior to pathway being affected.

6. All temporary pedestrian pathways must be firm and unyielding.

7. Any sidewalk disturbed will be replaced by section within 72 hours to FDOT specifications.

8. Any sidewalk fronting the property that is cracked, damaged or unstable and is creating an ADA trip hazard must be replaced by section, using Standard #520-001, #522-002, and #522-001 for the construction of sidewalk and meet current ADA Standards. All concrete placed in the right of way shall be a minimum of 6" thick, FDOT Certified Class 1 non-structural, 57 stone, 2500 PSI concrete, with fiber mesh material from a FDOT approved plant.

9. FDOT reserves the right to make adjustments to any permitted method of installation, scope of work, and restoration that may be required to positively support life, safety, and environmental well-being of all users of the transportation system.

10. The Permittee shall notify the FDOT of date of completion, request a final inspection, and a Notice of Final Acceptance.

11. All construction and/or maintenance in the FDOT right-of-way shall conform to the Federal Manual on Uniform Traffic Devices (MUTCD), the FDOT Roadway and Traffic Design Standards, the Standard Specifications for Road and Bridge Construction, the Florida Design Manual, and the Drainage Manual.

12. Prior to removal of existing curb or driveway, the edge of travel shall be sawcut to avoid damaging the existing roadway asphalt. All concrete to be removed in FDOT right-of-way shall be sawcut and removed from the nearest joint.

13. No lane closure of any State roadway is allowed without a minimum of two (2) weeks advance notification and approval from FDOT.

14. Lane closures must be limited to Sunday through Thursday 8:00 pm to 5:30 am unless otherwise approved by FDOT.

15. Any sidewalk damaged because of work being performed in association with the Permittee and Contractor shall be removed and replaced with 6-inch thick Class 1 non-structural, 2,500 PSI with fiber mesh.

16. Open cutting of any roadway, driveway or sidewalk outside those limits identified within the permit are not allowed without prior approval of by FDOT.

17. The Contractor shall have an authorized person available at/or near the work site on a 24-hour basis, 7 days a week in order to address emergency issues associated with the project.

18. No stockpiling, storing or semi-permanent use of the right-of-way is authorized unless specifically identified within the permit.

19. No work shall be performed during the weeks of any State or Federal holiday unless otherwise approved in writing by FDOT.

20. The permitted work schedule is defined as Monday through Friday 7:00 am to 5:30 pm unless otherwise noted within the permit. Any work desired outside of this period must be requested in advance and approved before working the alternate schedule.

21. When work is associated with roadway modifications and/or site development, the Contractor is required to have a preconstruction meeting with the FDOT inspector two weeks prior to any construction beginning within the right-of-way.

22. All work performed under this permit within the right-of-way is to be scheduled with FDOT inspection staff.

23. Roadway restoration shall utilize 100 PSI excavatable flowable fill material and asphalt placed within the State right-of-way shall be placed full-depth, two 2.5-inch lifts of SP 12.5, two 1.5-inch lifts of SP 9.5. Typical sections will need to be provided within the plans for the pavement placement. A stair step method should be incorporated, prior to placing asphalt, to avoid vertical joints. Milling of the patch may be required based on the patched surface performance. The milling shall be utilized for surface leveling to a thickness equal to or greater than the existing friction coarse material. The milling limits are 50-foot of the patch along the longitudinal path of the lane, full lane width and to include any adjacent bike lanes, shared path or urban shoulder sections.

24. Any disruptions to any permeable pedestrian way and bike lane are to be restored as work continues. All patches shall be full width from outside edge of pedestrian path to white line edge of travel lane with stair step (staggered) joints. Restoration to include backfill with existing sub-grade material and #57 stone as base material (compact in 6-inch lifts) to bottom of existing pervious asphalt base, followed by permeable design mix (if available) or FC-5 (Friction Course) mix with a minimum 2-inch and maximum 3-inch lifts. Maintain ingress/egress on all drives and side streets during construction.

25. Any bore pit greater than five (5) feet in depth requires a Sheeting and Shoring Plan as well as a Dewatering Plan.

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TEP
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REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

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SHEET TITLE:
CONSTRUCTION NOTES

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38567
DESCRIPTION:	1721 RICHMOND AVE N
DRAWING NAME:	U38567 - FOX CANAL - 1721 RICHMOND AVE N-LA-MSID-1

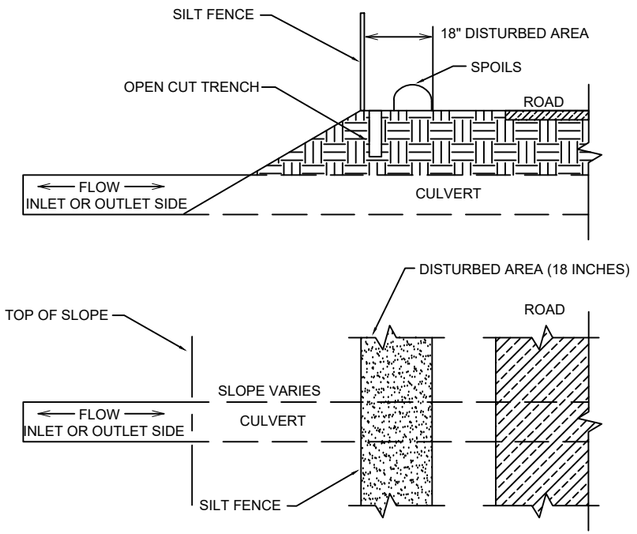
SHEET:
E of 1

CONFIDENTIAL/PROPRIETARY

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

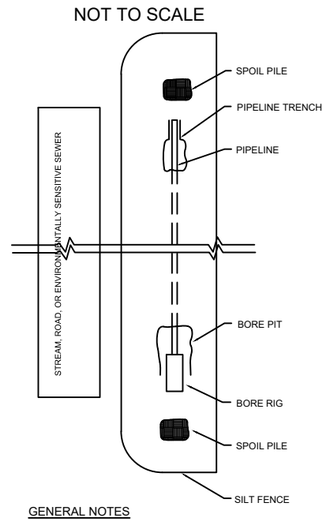
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

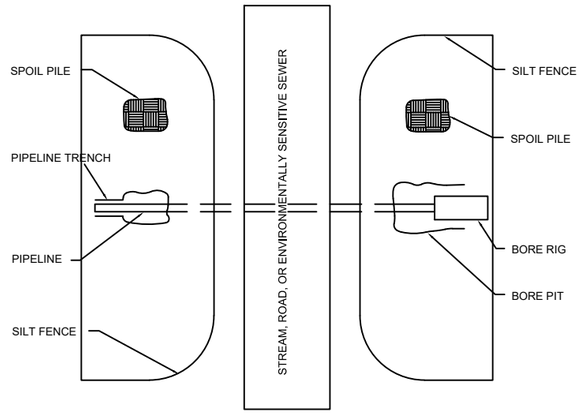


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

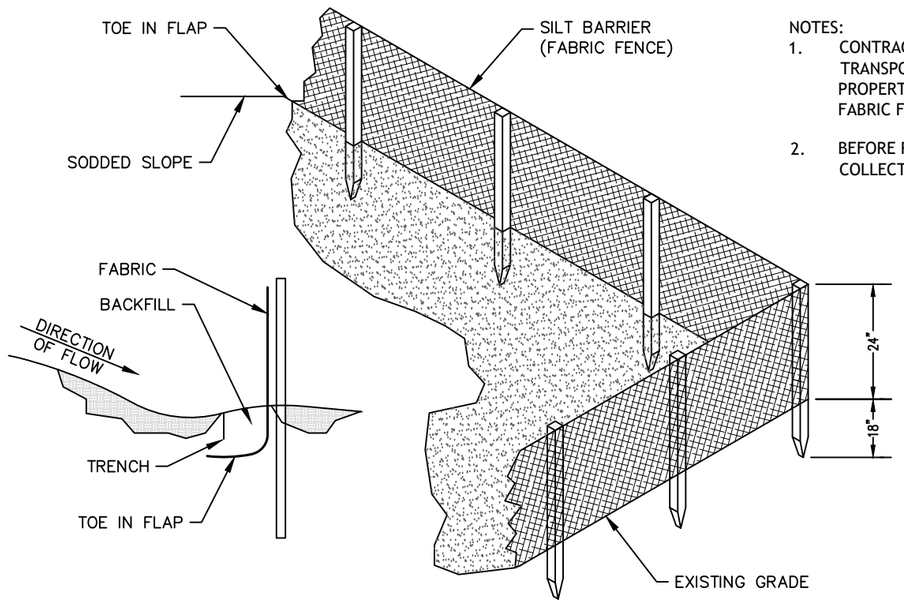
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

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SHEET TITLE: TYPICALS

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38567
DESCRIPTION:	1721 RICHMOND AVE N
DRAWING NAME:	U38567 - FOX CANAL - 1721 RICHMOND AVE N-LA-MSID-1

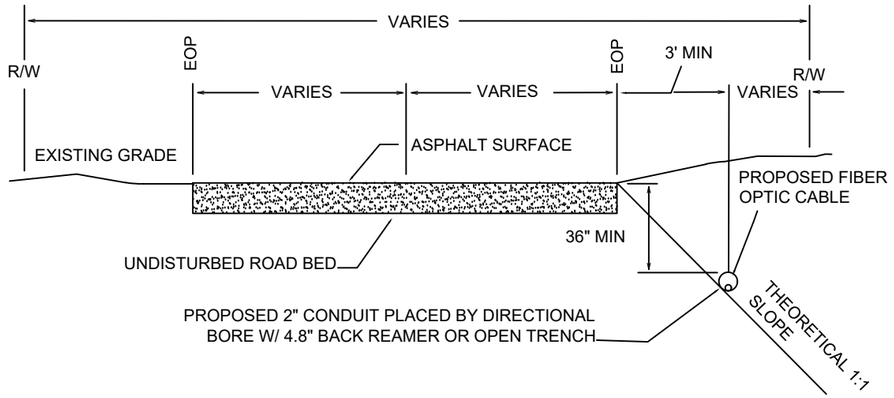
SHEET: F of 1

CONFIDENTIAL/PROPRIETARY

TYPICALS

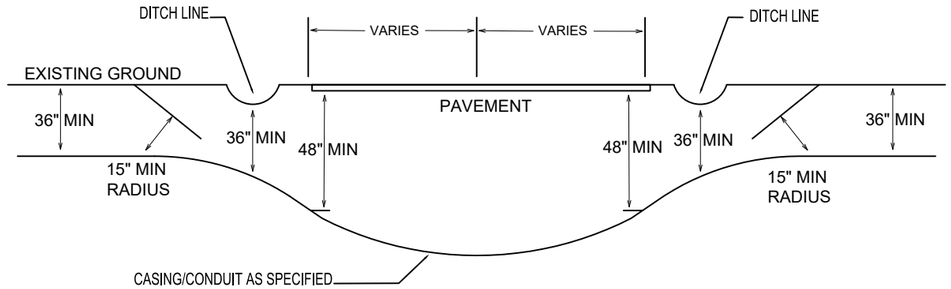
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



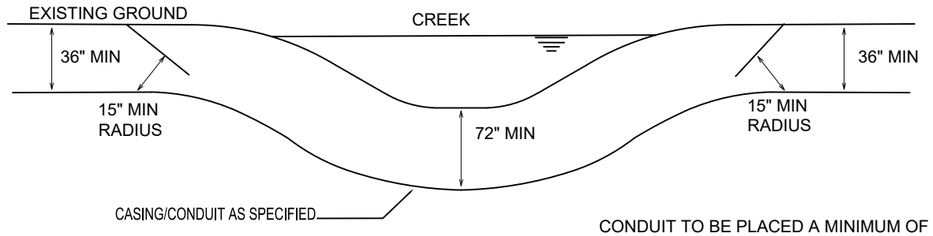
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

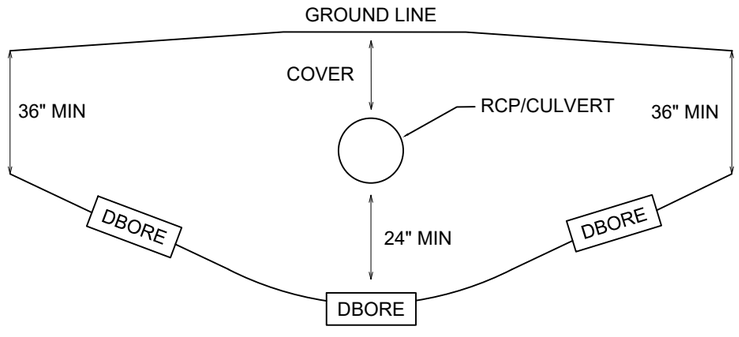
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 6 FEET BELOW CREEK BED

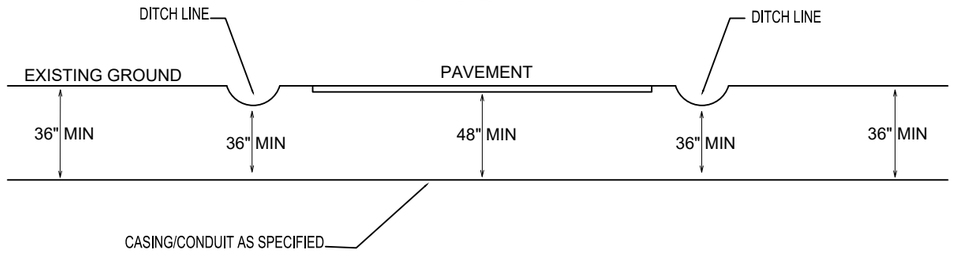
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38567
DESCRIPTION:	1721 RICHMOND AVE N
DRAWING NAME:	U38567 - FOX CANAL - 1721 RICHMOND AVE N-LA-MSID-1

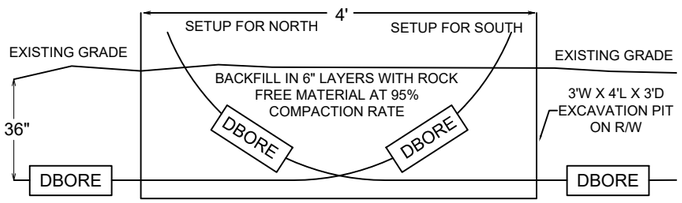
SHEET: G of 1

CONFIDENTIAL/PROPRIETARY

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

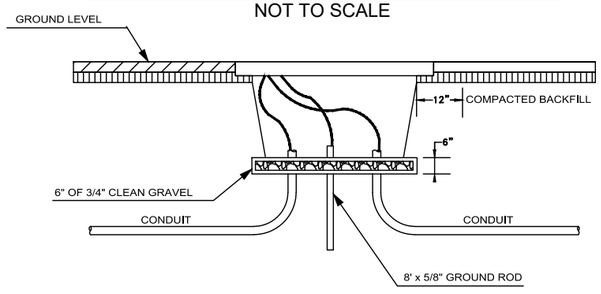


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

PULL BOX HANDHOLE

NOT TO SCALE



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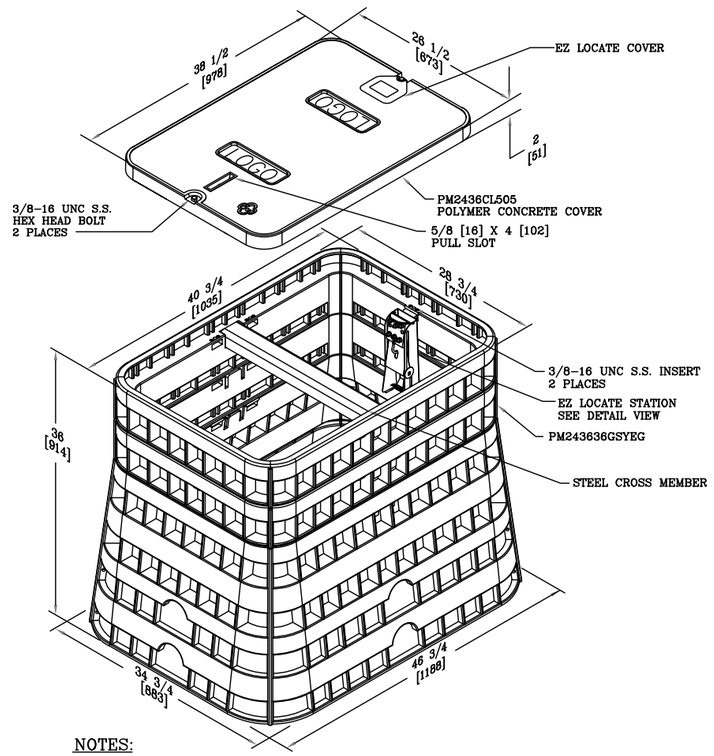
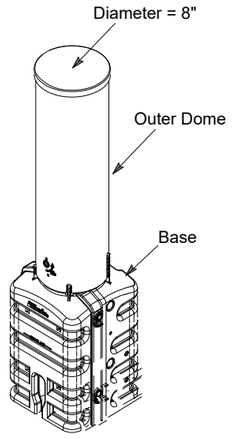


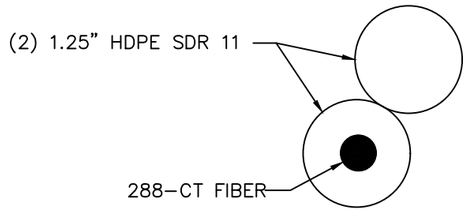
NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

BDO204-EG



PIPE DETAIL



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SHEET: H of 1

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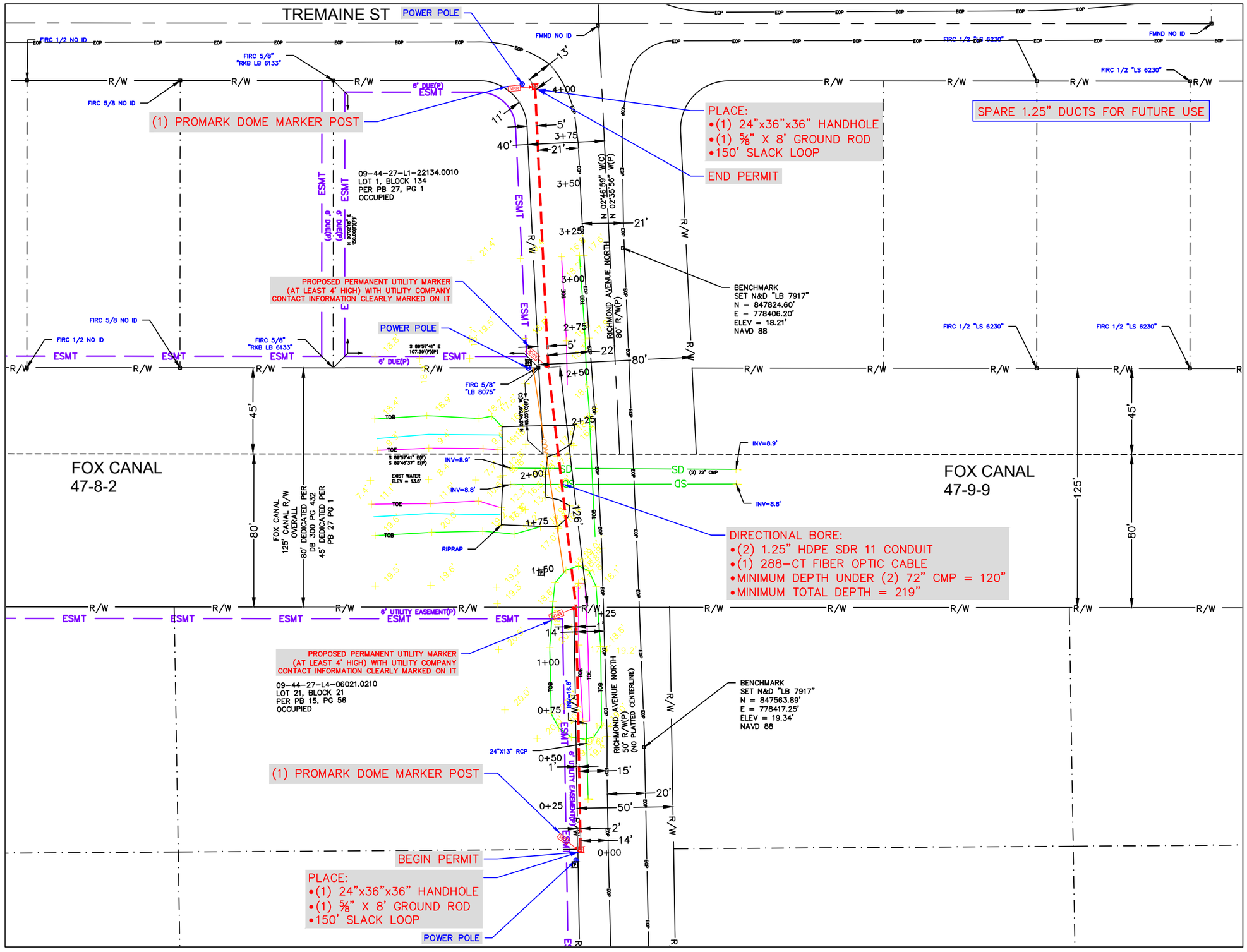

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0 10' 20' 30' 40' 50'
SCALE: 1"=50'

N

811 Know what's below Call before you dig.

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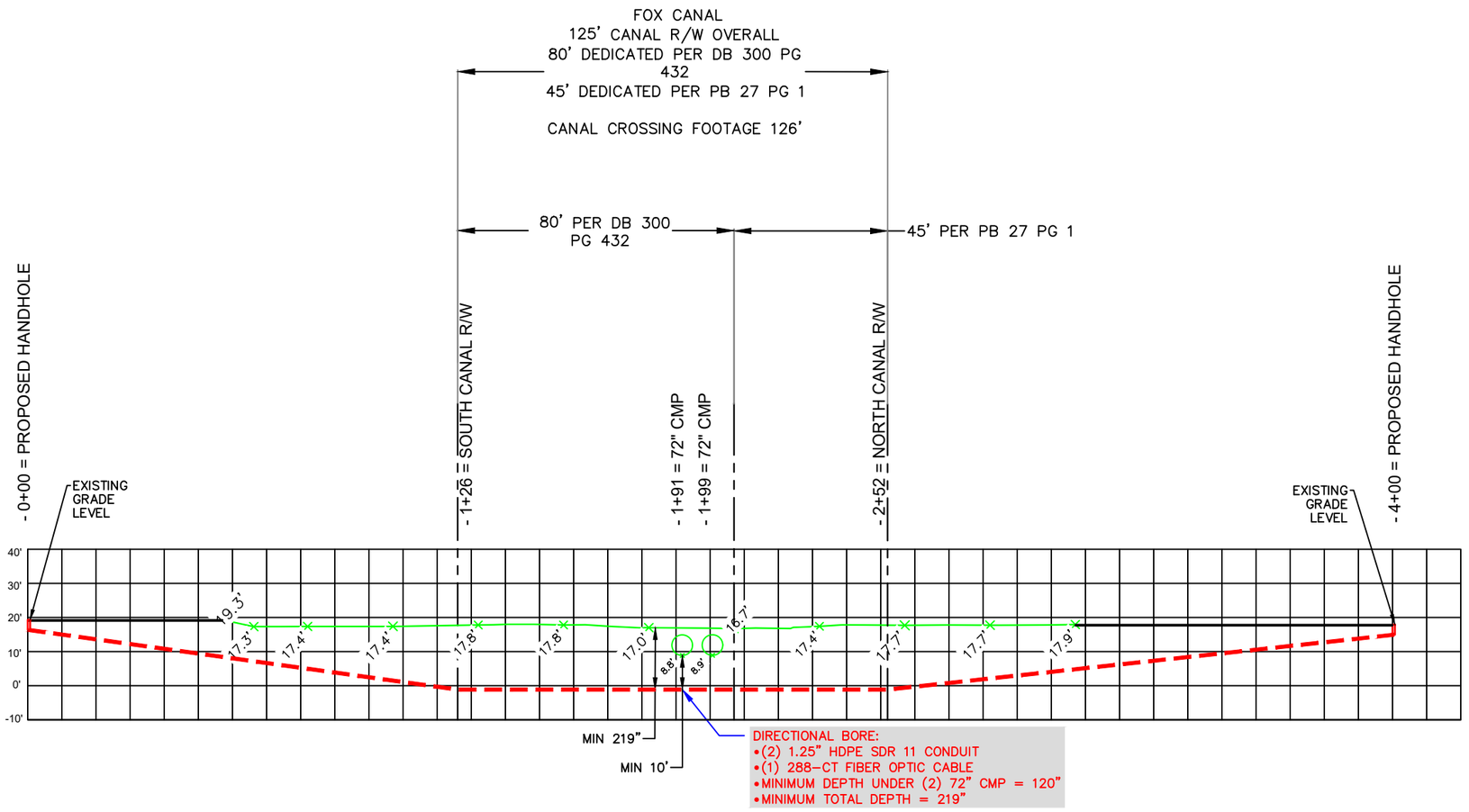
DRAWING NAME:	U38567 - FOX CANAL - 1721 RICHMOND AVE N-LA-MSID-1
SHEET:	1 of 1

CONFIDENTIAL/PROPRIETARY

SUB-GRADE VERTICAL PROFILE VIEW
RICHMOND AVENUE NORTH
FACING EAST



UTILITY NOTE:

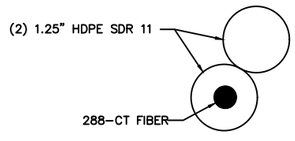
EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

NOTE:

BORE MUST BE 10' BELOW THE LOWEST PIPE INVERT OR THE CANAL BOTTOM, WHICHEVER IS LOWEST, FOR THE ENTIRE 125' WIDE CANAL RIGHT OF WAY.

ALL CANAL RIGHT OF WAY THAT IS DISTURBED MUST BE RESTORED WITH SOD AND MAINTAINED UNTIL WELL ESTABLISHED. NO SEEDING WILL BE ALLOWED.

PIPE DETAIL



NOTE:
BORE TO MAINTAIN A MINIMUM DEPTH OF 48" BELOW GRADE AND A MINIMUM DEPTH OF 48" BELOW TOP OF ROADWAY. A MINIMUM OF 30" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES, ITS/ATMS, AND STORM DRAIN SYSTEMS UNLESS SUPERVISED. NO BACK REAMER REQUIRED DUE TO SIZE OF 4" BIT. SOFT DIGS &/OR POTHOLING MAY BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, PLLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, PLLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEPDB OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY. THESE DRAWINGS ARE INTENDED TO DEPICT FIBER OPTIC CABLES, CONDUITS, AND RELATED INFRASTRUCTURE WITHIN THE PUBLIC RIGHT-OF-WAY (R/W) OR AREAS WITH VALID, RECORDED EASEMENTS OR LEASES, HOWEVER R/W LOCATIONS ARE BASED SOLELY ON GEOGRAPHIC INFORMATION SYSTEMS (GIS) DATA FROM THE LOCAL JURISDICTION. SURVEYS TO VERIFY R/W OR PROPERTY BOUNDARIES WERE NOT PERFORMED. WHERE INSTALLATION ROUTES EXTEND BEYOND THE R/W, THE UTILITY OWNER/OPERATOR IS SOLELY RESPONSIBLE FOR SECURING AND PROVIDING ALL NECESSARY EASEMENTS, LEASES, OR PROPERTY RIGHTS PRIOR TO CONSTRUCTION. CONTRACTORS SHALL RELY ON THE UTILITY OWNER/OPERATOR'S DOCUMENTATION AND ARE RESPONSIBLE FOR ENSURING THAT CONSTRUCTION OCCURS ONLY WITHIN AUTHORIZED AREAS. TEP, THE ENGINEER, DESIGNER, AND CREATOR OF THESE DRAWINGS ASSUME NO RESPONSIBILITY OR LIABILITY FOR UNAUTHORIZED PLACEMENT OF UTILITIES OUTSIDE THE PUBLIC R/W OR ON PRIVATE PROPERTY WITHOUT PROPER LEGAL AUTHORIZATION. ALL INSTALLATIONS MUST COMPLY WITH APPLICABLE LAWS AND REGULATIONS.

0 10' 20' 30' 40'
SCALE: 1"=40'

N

811 Know what's below Call before you dig.

REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

JOSHUA H. CARDEN LICENSE No 83511 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 28th, 2026

This item has been digitally signed and sealed by JOSHUA H. CARDEN on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SHEET TITLE:
PROJECT SHEET

PROJECT MANAGER:	SHAINE HERRICK
PROJECT ENGINEER:	DARIA COSTIN
PROJECT NUMBER:	U38567
DESCRIPTION:	1721 RICHMOND AVE N
DRAWING NAME:	U38567 - FOX CANAL - 1721 RICHMOND AVE N-LA-MSID-1

SHEET:
1A of 1

CONFIDENTIAL/PROPRIETARY

STREET LEVEL VIEW
STA 1+25
FACING NORTH

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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SCALE = N.T.S.

N

811 Know what's below Call before you dig.

REV	DESCRIPTION	INITIALS	DATE
0	ORIGINAL	DC	04/28/2026

TEP OPCO, LLC FL COA# 31011

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SHEET:
I1 of 1

CONFIDENTIAL/PROPRIETARY

STREET LEVEL VIEW
STA 2+50
FACING SOUTH

lumos

TEP

5906 BRECKENRIDGE PKWY, SUITE A
TAMPA, FL 33610

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N

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0	ORIGINAL	DC	04/28/2026

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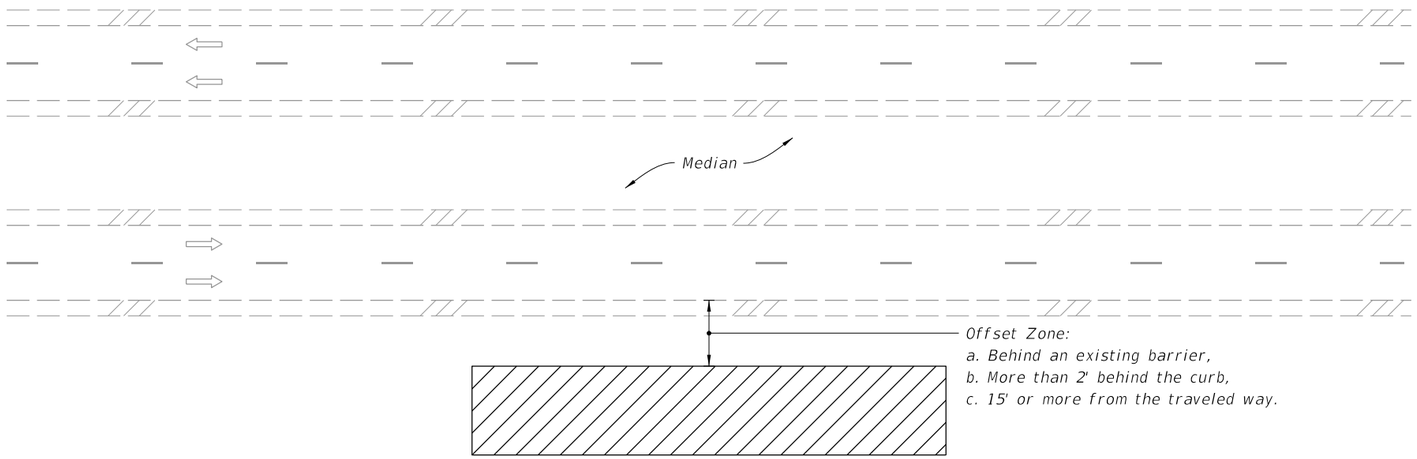
SHEET: I2 of 1

CONFIDENTIAL/PROPRIETARY



MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR

NOTES:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.

2. Use Index 102-602 when the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the Offset Zone in any one hour period.

3. Use Index 102-660 when Work Area encroaches a Sidewalk.

SYMBOLS:

Work Area

Lane Identification and Direction of Traffic

9/10/2024 10:45:01 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/20			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER	102-601	1 of 1

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

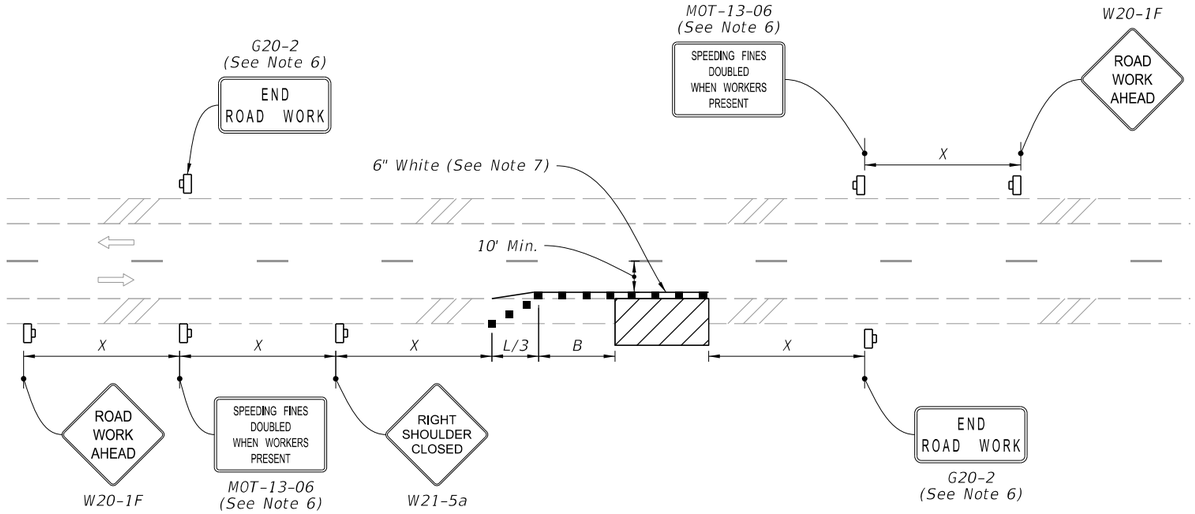
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

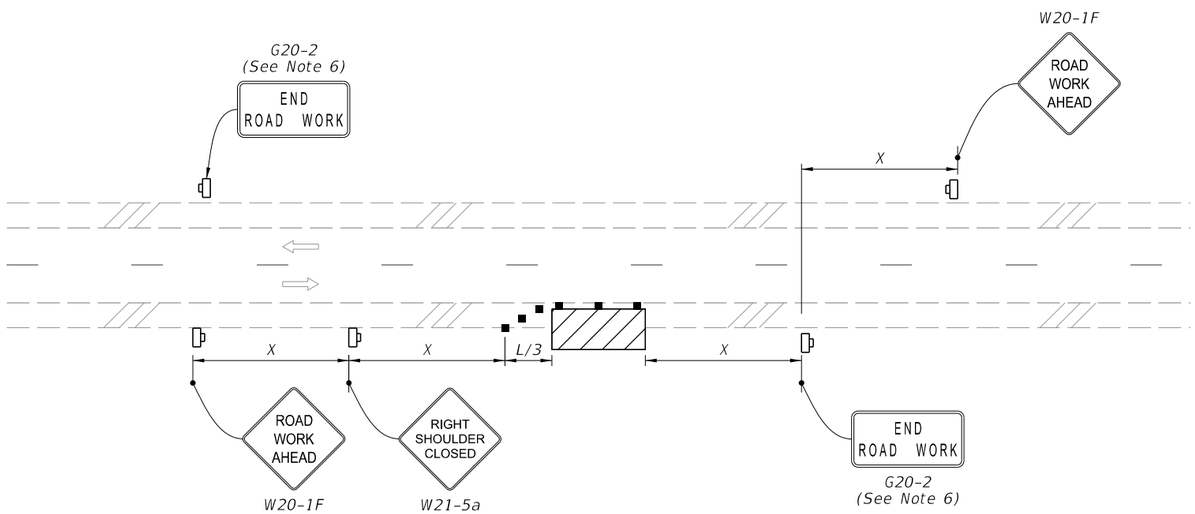
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



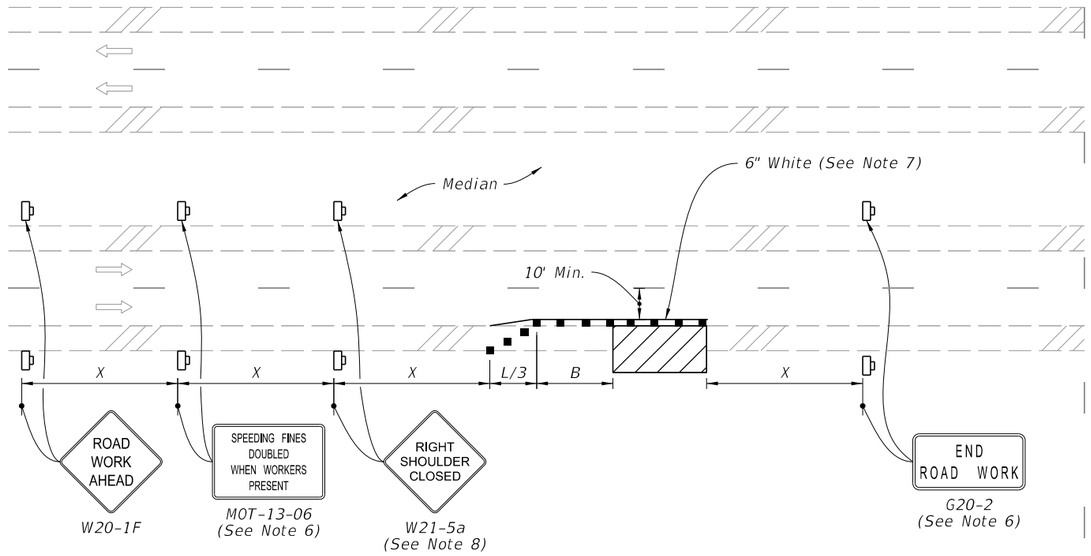
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



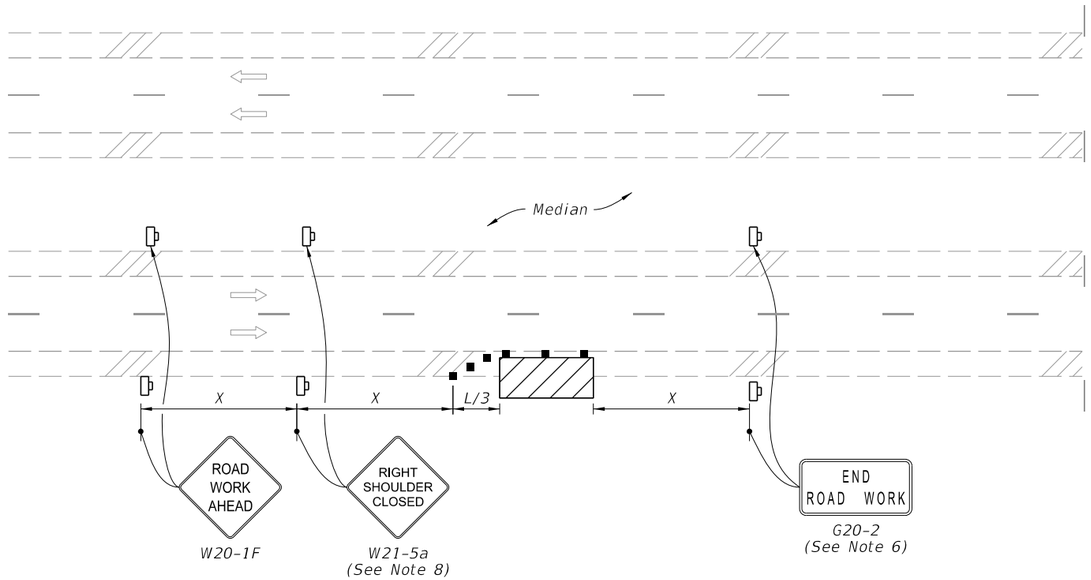
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

NOTES:

1. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.

2. Place pedestrian LCDs across the full width of the closed sidewalk.

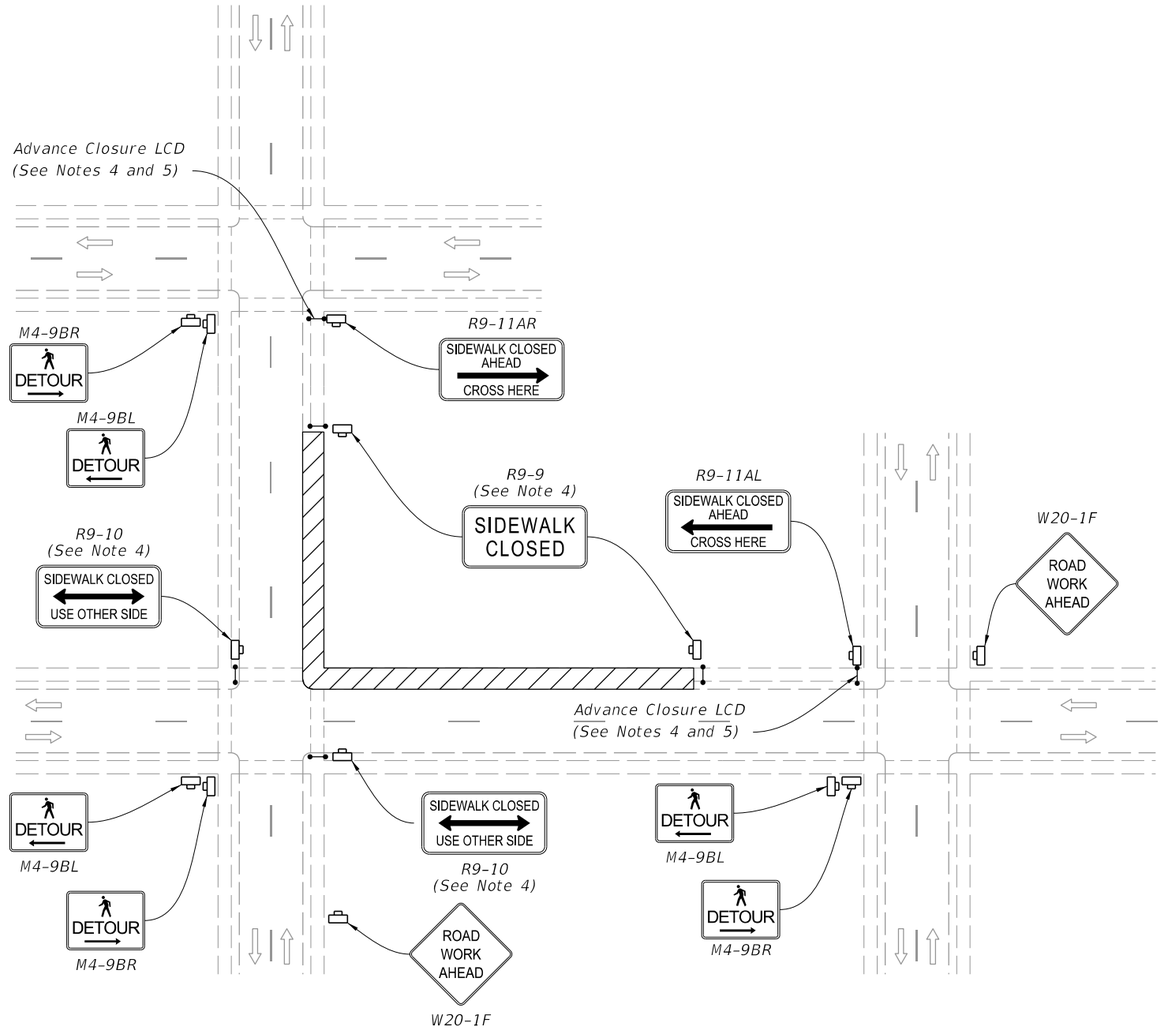
3. For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.

4. "Sidewalk Closed" signs (R9-XX) may be mounted on pedestrian LCDs in accordance with the manufacturer's instructions.

5. Omit the Advance Closure LCD if it blocks access to other pedestrian facilities (e,g,, transit stops, residences, or business entrances).

SYMBOLS:

- Work Area
- Work Zone Sign
- Pedestrian Longitudinal Channelizing Device (LCD)
- Lane Identification and Direction of Traffic



PEDESTRIAN DETOUR

9/10/2024 11:11:04 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FY 2025-26 STANDARD PLANS	SIDEWALK CLOSURE	INDEX 102-660	SHEET 1 of 2

NOTES:

1. L = Taper Length
   B = Buffer Length
   X = Work Zone Sign Distance
   See Index 102-600 for "L", "B", "X", channelizing device spacing values.

2. Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways less than 5' in width at intervals not to exceed 200'.

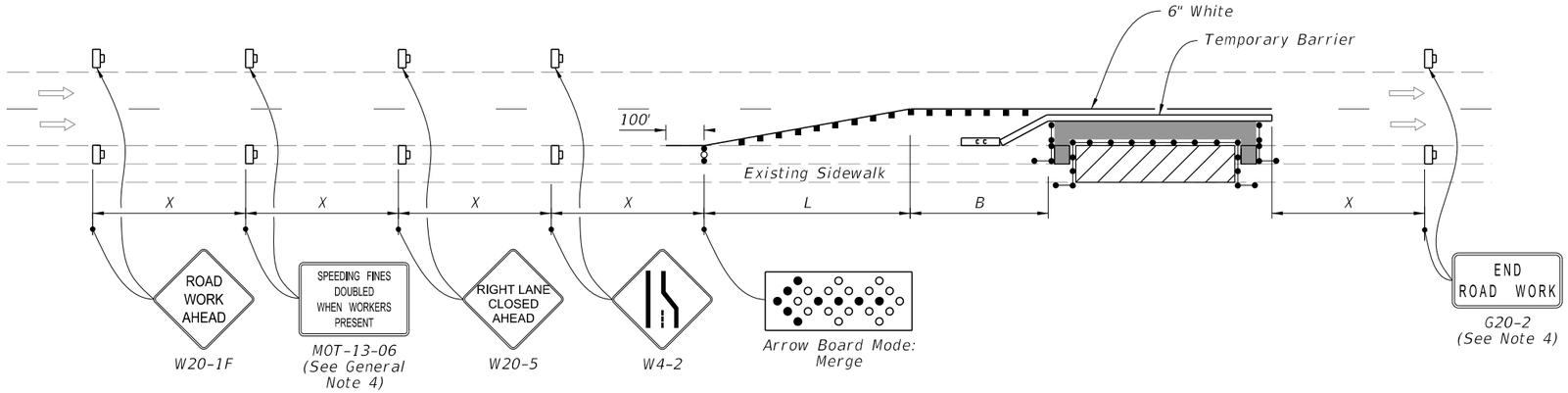
3. When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane.

4. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less.

5. Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.

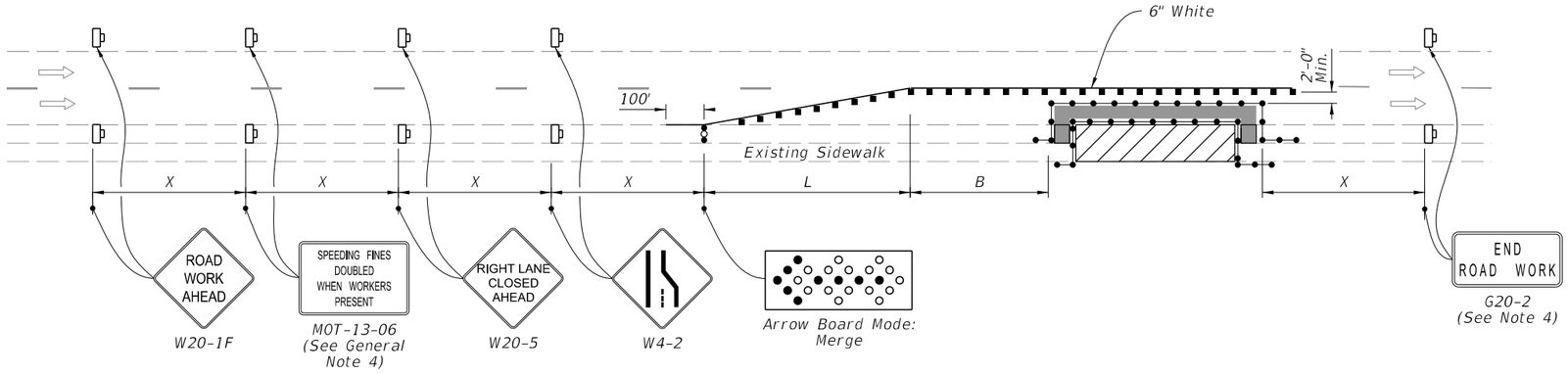
SYMBOLS:

- Work Area
- Temporary Pedestrian Way
- Channelizing Device (See Index 102-600)
- Pedestrian Longitudinal Channelizing Device (LCD)
- Work Zone Sign
- Arrow Board
- Crash Cushion
- Lane Identification and Direction of Traffic



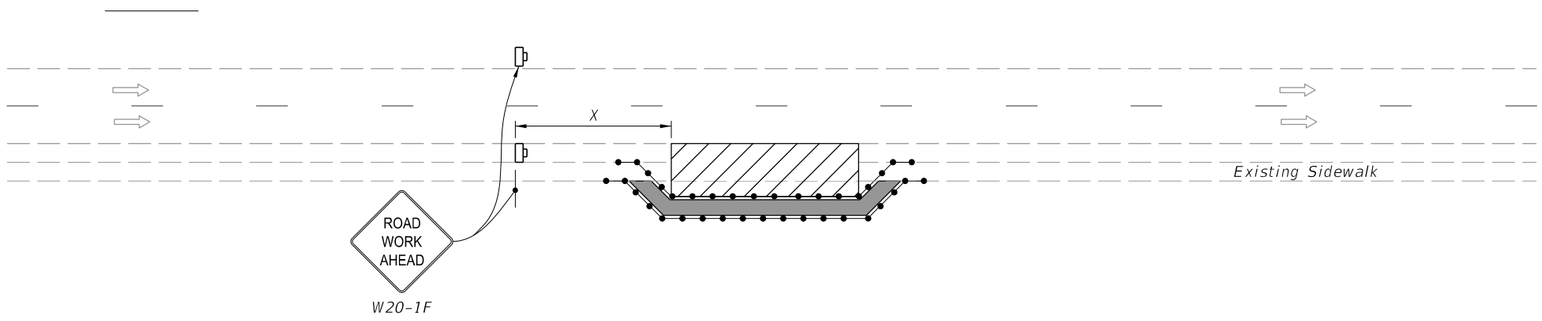
PEDESTRIAN DIVERSION - OPTION 1

(Temporary Barrier Shown, Low Profile Barrier Similar)



PEDESTRIAN DIVERSION - OPTION 2

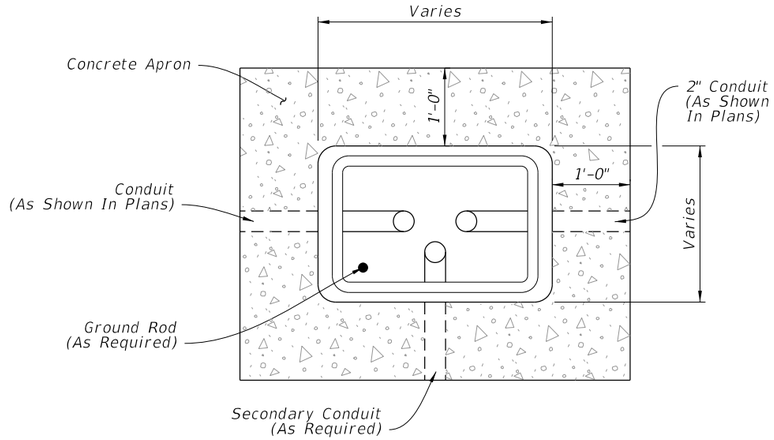
(Work Zone Speed 45 mph or Less)



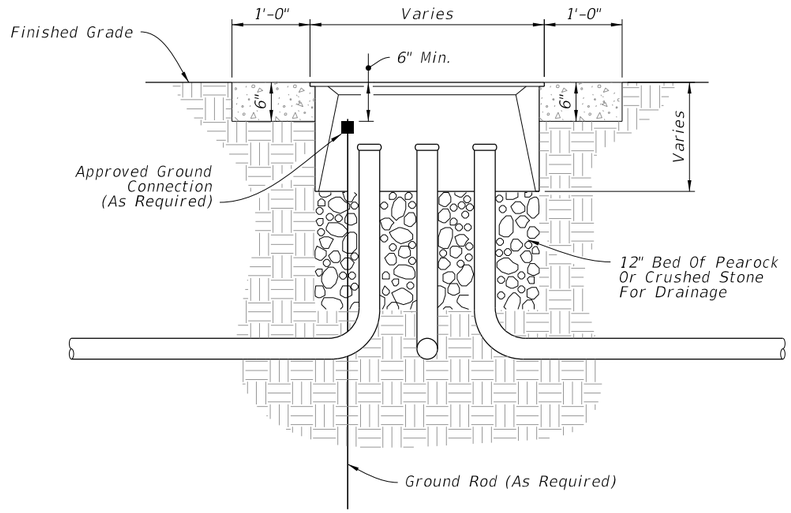
PEDESTRIAN SPECIAL DETOUR

9/10/2024 11:11:11 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/23			FY 2025-26 STANDARD PLANS	SIDEWALK CLOSURE	102-660	2 of 2

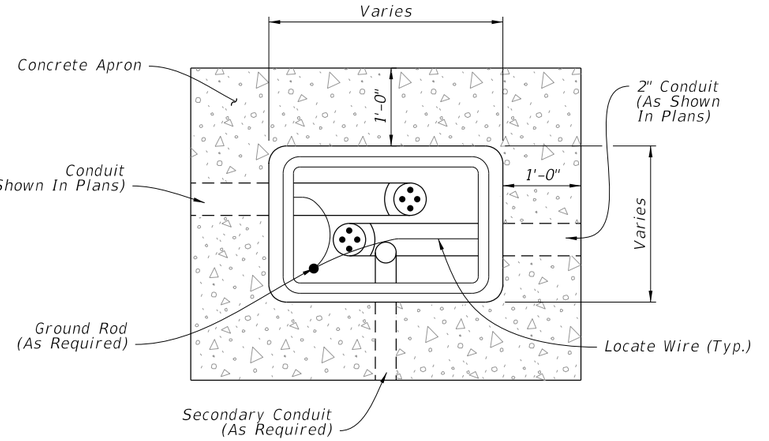


PLAN

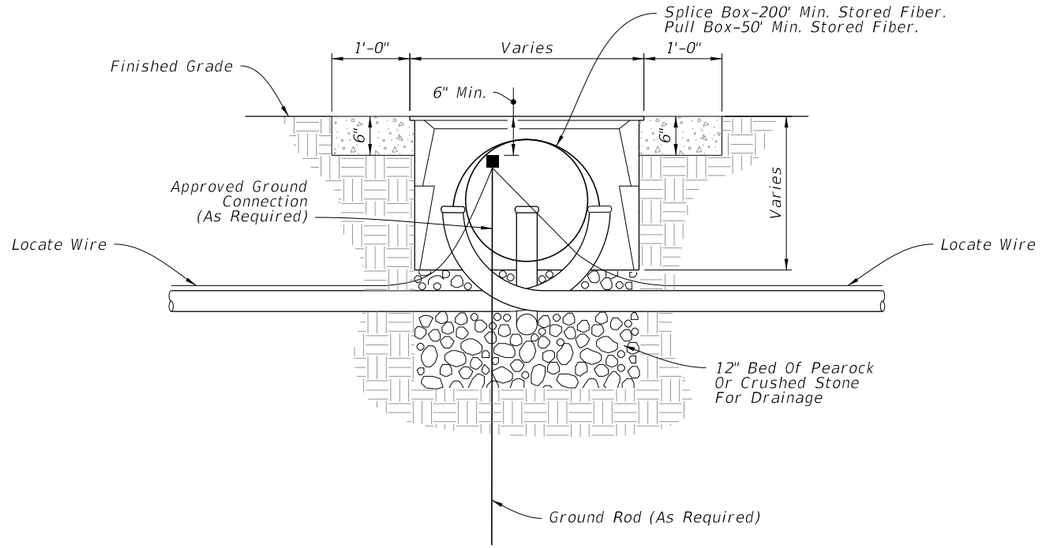


ELEVATION

PULL BOX



PLAN



ELEVATION

FIBER OPTIC BOX

NOTES:

1. Provide fiber optic splice boxes with cable hanger racks designed to support cables and splice enclosures.
2. Install a 1'-0" wide (Min.) concrete apron around all boxes using Class NS concrete. Slope the apron away from the box.
3. Where multiple pull boxes are placed side by side, maintain at least 8" between the pull boxes.
4. Rectangular boxes shown, others similar.

9/10/2024 2:16:11 PM

LAST REVISION	REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	PULL AND SPLICE BOXES	INDEX	SHEET
11/01/18					635-001	1 of 1

Topographic Survey of a Subject Project Site

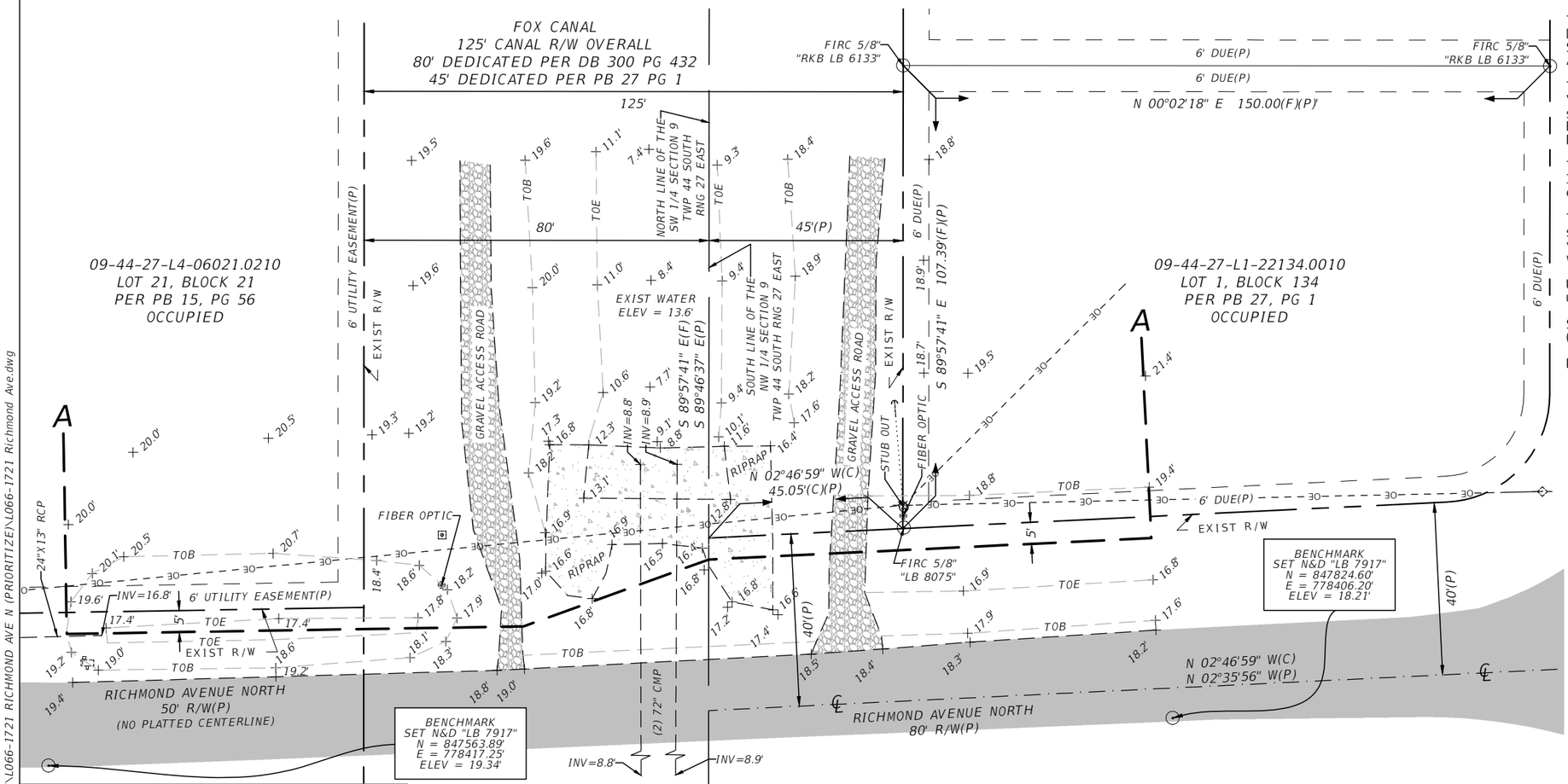
lying within

Section 9, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW

0 15'
(1" = 30') 30'
Graphic Scale



NOTES:

Survey based on the plat of Blocks 21, 22 & 23 Unit 6 S 1/2 SEC. 9, TWP 44S RGE. 27E as recorded in Plat Book 15 Page 56 & plat of Greenbriar as recorded in Plat Book 27 Page 1, Public Records of Lee County, Florida and existing monumentation.

This survey prepared as a Topographic Survey for the purpose of locating the features within and adjacent to the Lehigh Acres Municipal Services Improvement District-managed facility West of Richmond Avenue North between East 17th Street and Tremaine Street.

The elevations shown hereon are referenced to the North American Vertical Datum of 1988 (NAVD 1988). All elevations are reported in US survey feet and decimals thereof and are based upon the Florida Permanent Reference Network (FPRN) stations maintained by the Florida Department of Transportation.

The subject site lies within Zone "X" per FEMA insurance rate map 125124 0317F (Published 08/28/2008), therefore has no base flood elevation.

The FEMA flood zone information indicated hereon is based on the maps supplied by the Federal Government. This flood information must be verified with all permitting regulatory entities prior to commencing any work or application dependent on said flood information.

Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 01/07/2026

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

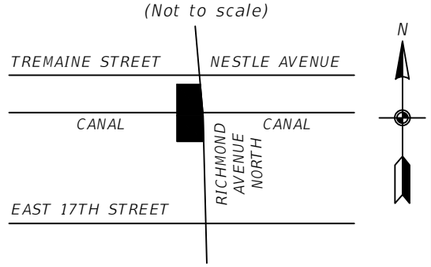
Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Location sketch
(Not to scale)



LEGEND:

(P)	= PER PLAT	N&D	= NAIL AND DISK
(F)	= FIELD MEASURED	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
CB	= CATCH BASIN	OR	= OFFICIAL RECORDS BOOK
Δ	= DELTA ANGLE	PB	= PLAT BOOK
℄	= CENTER LINE	PG	= PAGE
CONC	= CONCRETE	R/W	= RIGHT OF WAY
CMP	= CORRUGATED METAL PIPE	RCP	= REINFORCED CONCRETE PIPE
CPP	= CORRUGATED PLASTIC PIPE	RNG	= RANGE
DUE	= DRAINAGE AND UTILITY EASEMENT	S/W	= SIDEWALK
ELEV	= ELEVATION	SEC	= SECTION
EOP	= EDGE OF PAVEMENT	TOB	= TOP OF BANK
EXIST	= EXISTING	TOE	= TOE OF SLOPE
FIRC	= FOUND IRON ROD AND CAP	TWP	= TOWNSHIP
INST#	= INSTRUMENT NUMBER	(TYP)	= TYPICAL
INV	= INVERT ELEVATION		

⊙	= FOUND MONUMENT
OE	= OVERHEAD UTILITY LINE
+20.0	= SPOT ELEVATION
▣	= TELEPHONE PEDESTAL
	= SINGLE SUPPORT SIGN
	= GUY ANCHOR
	= UTILITY POLE
	= MAILBOX
	= UNDERGROUND UTILITY MARKER
WM	= WATER METER

Richmond Avenue N, Lehigh Acres

TOPOGRAPHIC SURVEY-PLAN VIEW

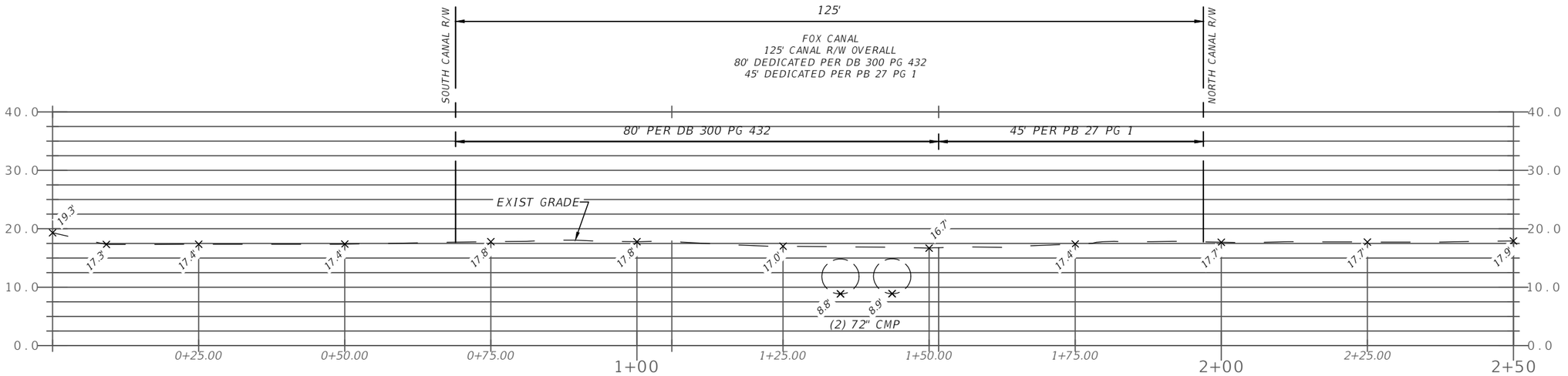
McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L066-1721 Richmond Ave.dwg	106981-4/13	106980001-L066

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/07/2026	BWL	TJH	01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L066-1721 RICHMOND AVE N (PRIORITIZE)\L066-1721 Richmond Ave.dwg

Topographic Survey of a
Subject Project Site
Section 9, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Richmond Avenue N, Lehigh Acres

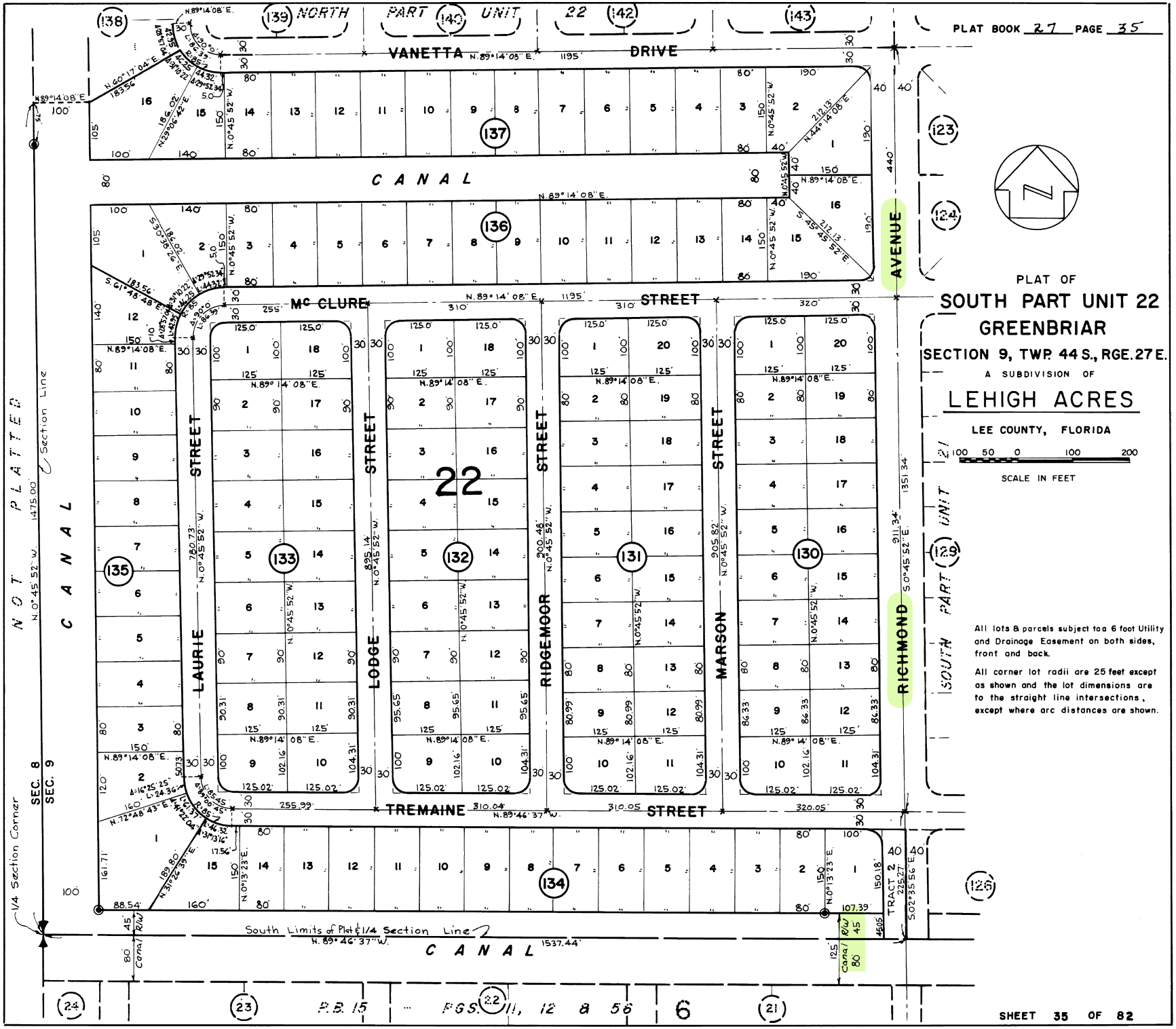
TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L066-1721 Richmond Ave.dwg	106981-4/13	106980001-L066

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/07/2026	BWL	TJH	02 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L066-1721 RICHMOND AVE N (PRIORITIZE)\L066-1721 Richmond Ave.dwg


PLAT BOOK 27 PAGE 35
NORTH PART UNIT 22
VANETTA DRIVE
CANAL
AVENUE
McCLURE STREET
TREMAINE STREET
LAURIE STREET
LODGE STREET
RIDGEMOOR STREET
MARSON STREET
RICHMOND AVENUE
SOUTH PART UNIT 21
NOT PLATTED
Section Line
SEC. 8
SEC. 9
1/4 Section Corner
South Limits of Plat & 1/4 Section Line
TRACT 2
PLAT OF
SOUTH PART UNIT 22
GREENBRIAR
SECTION 9, TWP. 44 S., RGE. 27 E.
A SUBDIVISION OF
LEHIGH ACRES
LEE COUNTY, FLORIDA
SCALE IN FEET
All lots & parcels subject to a 6 foot Utility and Drainage Easement on both sides, front and back.
All corner lot radii are 25 feet except as shown and the lot dimensions are to the straight line intersections, except where arc distances are shown.
P.B. 15 — PGS. 11, 12 & 56
SHEET 35 OF 82

PART IV #26-73

Recommended Action

Engineering Review:

By: _____5/15/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ Approved ___ Denied ___

District Manager: _____ Date: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Fox Canal (47-9-9) at 1721 Richmond Ave. N., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Jig Canal (47-28-1), along the east side of Richmond Ave. N., between E. 5th St. & E. 4th St., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-74

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-74 is approved according to the plans submitted April 28th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 80' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Richmond Ave. N.

04 - 13 - 26

26 - 74

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: WILLIAM KIEFER **PHONE #:** (515) 306 - 3403

PROJECT NAME: LE1_016_FDH_01_405 RICHMOND AVE N - JIG CANAL

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 405 RICHMOND AVE N					
Mailing Address:	N/A				
City:	LEHIGH ACRES	**State:**	FLORIDA	**Zip:**	33936

STRAP NUMBERS (*attach additional sheet if necessary*):

28 - 44 - 27 - L4 - 01004 - 0120

Brief description of proposed project:

Application for: DIRECTIONAL BORE 2x1.25" HDPE SDR 11 CONDUIT 80' IN THE LAMSID ROW OF JIG CANAL (47-28-1) ALONG RICHMOND AVE N

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$1950.00 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	LUMOS FIBER OF FLORIDA, LLC						
Mailing Address:	**Street:**	4100 MENDENHALL OAKS PKWY, SUITE 300					
City:	HIGH POINT	**State:**	NORTH CAROLINA		**Zip:**	27265	
Phone No.	**Area Code:**	515	**Number:**	306 - 3403	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	WILLIAM.KIEFER@LUMOSFIBER.COM						

B. Relationship of applicant to property*:

Owner* ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee*** ☐

Contract Purchaser* ☐ **Other (indicate)*** ☑ UTILITY

C.

Name of Developer:	MILENIUM DIRECTIONAL DRILLING, INC						
Mailing Address:	**Street:**	5395 COGSWELL DR					
	WAYNE	**State:**	MI		**Zip:**	48184	
	Area Code:	(313)	**Number:**	326 - 2333	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	FELECAND@MILENIUMBORS.COM						

D.

Name of Authorized Agent(s):	CENTILLION SOLUTIONS						
Mailing Address:	**Street:**	6030 BETHELVIEW RD, SUITE 301					
City:	CUMMING	**State:**	GEORGIA		**Zip:**	30040	
Phone No.	**Area Code:**	(480)	**Number:**	442 - 0562	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	KYLE.PARKEY@CENTILLIONSOLUTIONS.COM						

E.

Name of Property owner:	N/A						
Mailing Address:	**Street:**						
City:		**State:**			**Zip:**		
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

	-	-	-	-	-

PRIMARY STRAP NUMBER:

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

WILLIAM KIEFER
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 28th day of April (m), 2026 (y), by William Kiefer who is personally know to me ~~or has produced _____ as identification~~.

ANDREW P. STEVENSON
Notary Public, North Carolina
Guilford County
My Commission Expires
November 06, 2026

Andrew P. Stevenson
SIGNATURE OF NOTARY PUBLIC

Andrew P. Stevenson
PRINTED NAME OF NOTARY PUBL

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at lamsid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

ENGINEER

Name:	MCKIM & CREED						
Mailing Address:	5701 DIVISION DR, STE A						
City:	FORT MYERS	**State:**		FLORIDA		**Zip:**	33905
Business No.	**Area Code:**	(239)	**Number:**	980 - 3384		**Ext.**	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	BLAIR CONSULTING SERVICES, INC						
Mailing Address:	1428 SUNBLUSH LN						
City:	LAS VEGAS	**State:**		NV		**Zip:**	89117
Business No.	**Area Code:**	(813)	**Number:**	579 - 0128		**Ext.**	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
NA	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
NA	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
NA	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/11/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-74	Lumos Bore under Jig Canal (47-28-1) At Richmond Ave. N.	Total Fee $1,950.00
	Permit Fee: $750 + $15 x 80' R/W = $750 + $1,200	Due From Deposit
	Total Fee = $1,950.00	
		TOTAL $1,950.00

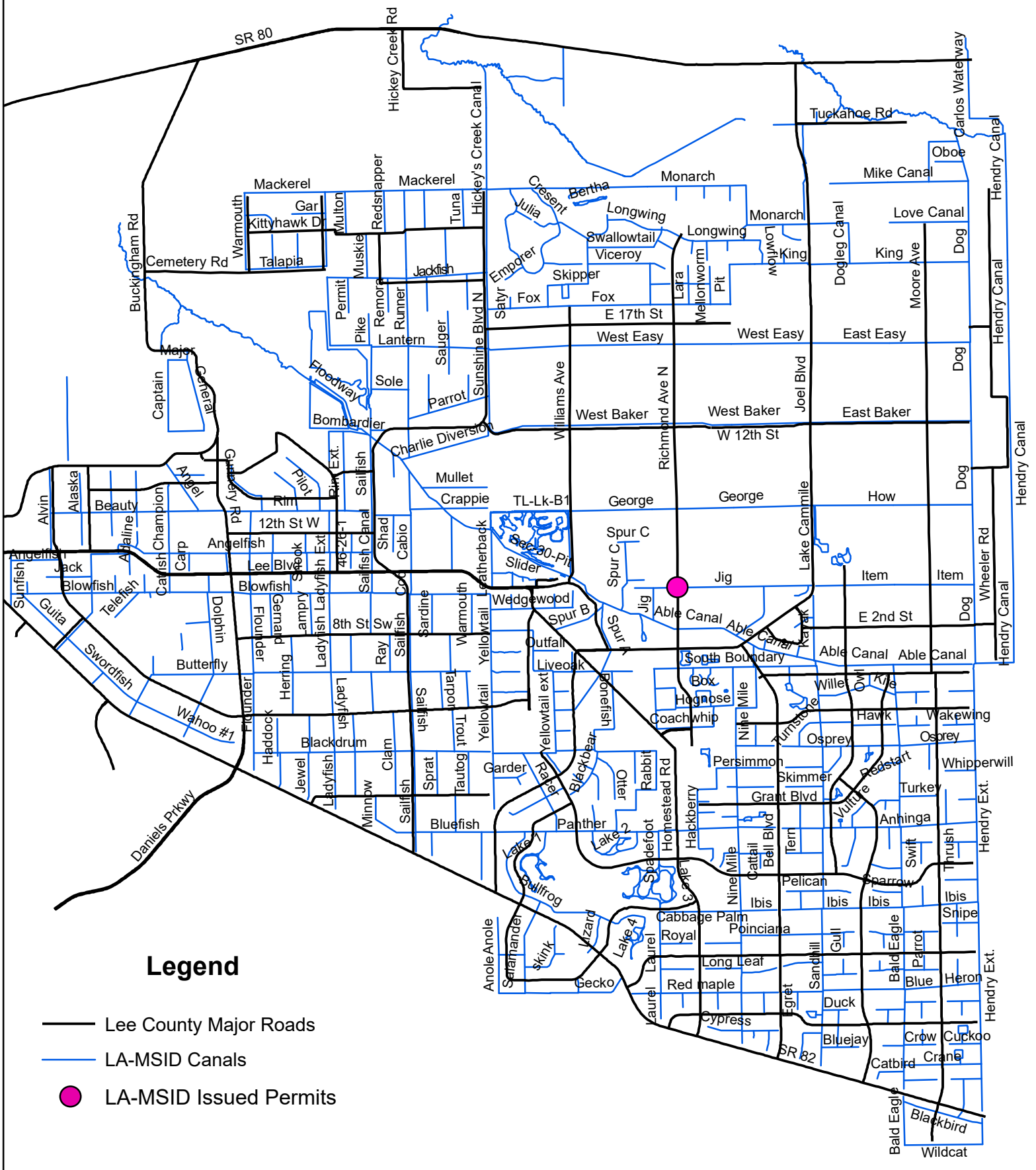
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/11/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry.**

*The CR account will need to be changed based on the customer. See accounting to setup new customer deposit accounts.

Permit # 2026-74

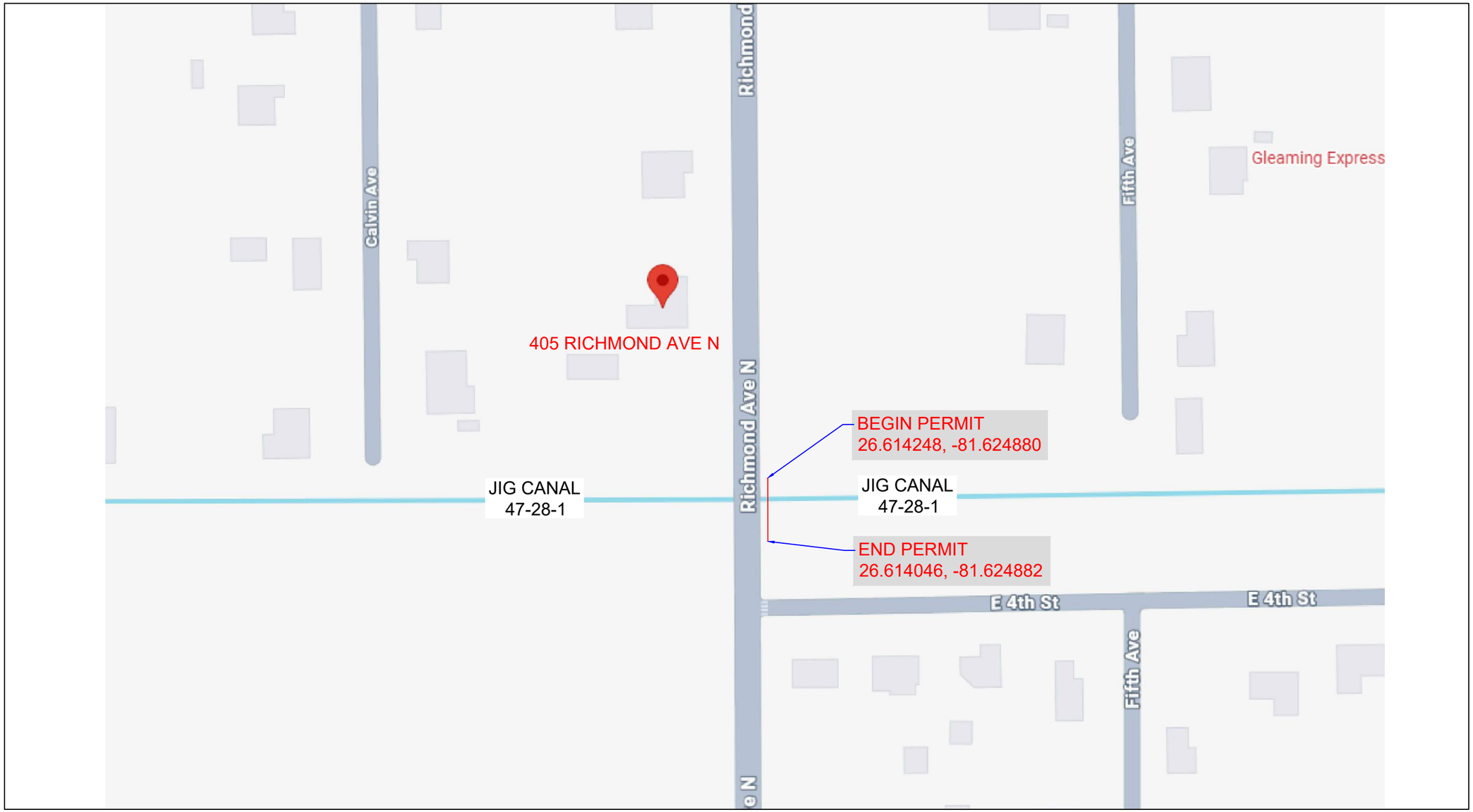


Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL

405 RICHMOND AVE N, LEHIGH ACRES, FL 33936 (26.614174, -81.624886)



PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 292' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 288-CT FIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
1	COVER SHEET	7	PROFILE VIEW
2	SOW AND CONTACTS	8 - 9	IMAGES
3	LEGEND	10 - 12	TYPICALS
4 - 5	GENERAL NOTES		
6	PROJECT SHEETS		

PERMITTING AGENCY

LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

Blair Consulting Services, INC
1428 Sunblush Ln, Las Vegas, NV 89117
Fabio Perassi - Project Manager
fsperassi@gmail.com

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
----	----	----	----
----	----	----	----

SHEET TITLE:	COVER SHEET
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_01
DESCRIPTION:	JIG CANAL
DRAWING NAME:	LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL
SHEET:	1 OF 12

SCOPE OF WORK

- BURIED PLACEMENT OF 292' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 288-CT MICROFIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
William Kiefer - OSP Project Engineer
William.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

ENGINEERING COMPANY

Blair Consulting Services, INC
1428 Sunblush Ln,
Las Vegas, NV 89117

PROJECT MANAGER
Fabio Perassi
813-579-0128
fsperassi@gmail.com

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

LEE COUNTY ELECTRIC CO-OP
TOM BAILEY
(239) 656-2414

LUMOS FIBER OF FLORIDA, LLC
MARLON BROWN - SR DIRECTOR
MARLON.BROWN@LUMOSFIBER.COM
(540) 278-0304

FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

PERMITTING AGENCY
LA - MSID

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BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:
SOW & CONTACTS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_01
DESCRIPTION:	JIG CANAL
DRAWING NAME:	LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL
SHEET:	2 OF 12

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F	
	IN: 0
	OUT: 0

SEQUENTIAL CALLOUT

#F	
	IN: 0
	TAIL: 0

SEQUENTIAL IN TAIL CALLOUT

#F	
	TAIL: 0
	OUT: 0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

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SHEET TITLE: LEGEND

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_01
DESCRIPTION:	JIG CANAL
DRAWING NAME:	LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL
SHEET:	3 OF 12

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

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REVISION DATA

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SHEET TITLE:	GENERAL NOTES
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_01
DESCRIPTION:	JIG CANAL
DRAWING NAME:	LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL
SHEET:	4 OF 12

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

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SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

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SHEET TITLE:
GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_01
DESCRIPTION:	JIG CANAL
DRAWING NAME:	LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL
SHEET:	5 OF 12

PROPOSED BORE
PIT 00+00

PROPOSED UTILITY
MARKER 01+06

PROPOSED UTILITY
MARKER 01+86

PROPOSED BORE
PIT 02+92

RICHMOND AVE N

E 4TH ST

JIG CANAL
47-28-1

JIG CANAL
47-28-1

01+37

50'
24'
13'
2'
80'

DIRECTIONAL BORE:
- (2) 1.25" HDPE SDR 11 CONDUIT
- 292'
- MINIMUM DEPTH = 219.6" STA– 01+06 TO 01+86

R/W
EOP
S/W
MKR

PERMITTING
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N

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LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

0 10' 20' 30' 40'
SCALE: 1"=40'

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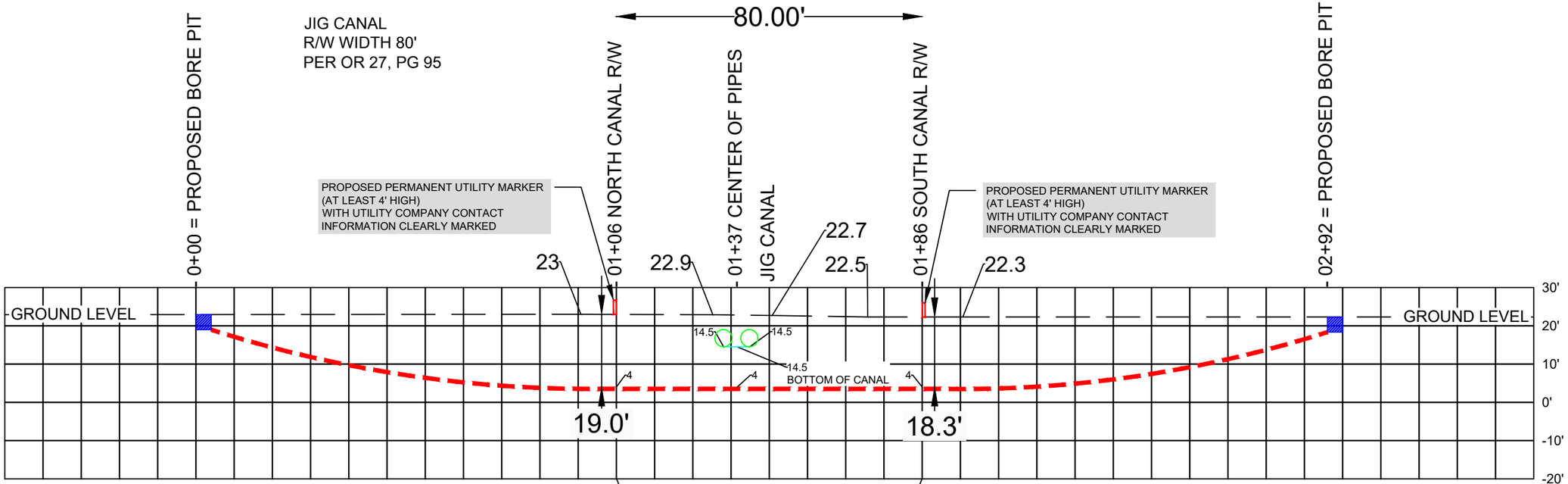
SHEET TITLE:
PROJECT SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_01
DESCRIPTION:	JIG CANAL
DRAWING NAME:	LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL
SHEET:	6 OF 12

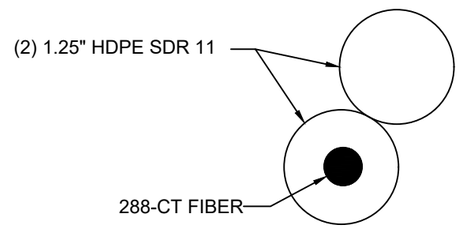
SUB-GRADE VERTICAL PROFILE VIEW
RICHMOND AVE N
LOOKING EAST



UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

PIPE DETAIL



PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

0 10' 20' 30'
SCALE: 1"=30'

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:
PROFILE VIEW

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_01
DESCRIPTION:	JIG CANAL
DRAWING NAME:	LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL
SHEET:	7 OF 12

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SHEET TITLE:	IMAGES
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_01
DESCRIPTION:	JIG CANAL
DRAWING NAME:	LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL
SHEET:	8 OF 12

STREET LEVEL VIEW
STA 01+86
FACING NORTH

04/07/2026 10:14AM
26.614088, -81.624849
403 EAST 4TH ST
LEHIGH ACRES, FL 33972

PERMITTING AGENCY
LA - MSID

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LAS VEGAS, NV 89117

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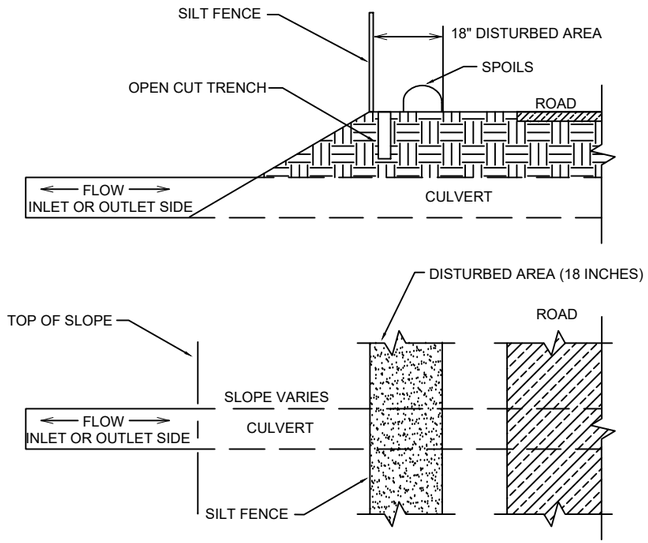
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_01
DESCRIPTION:	JIG CANAL
DRAWING NAME:	LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL
SHEET:	9 OF 12

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

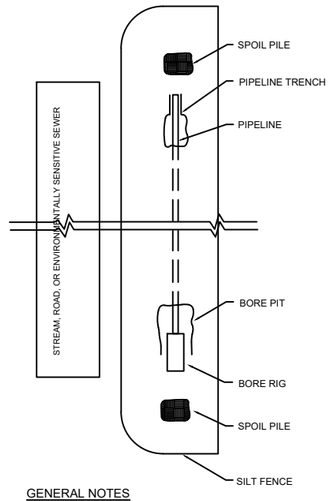
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

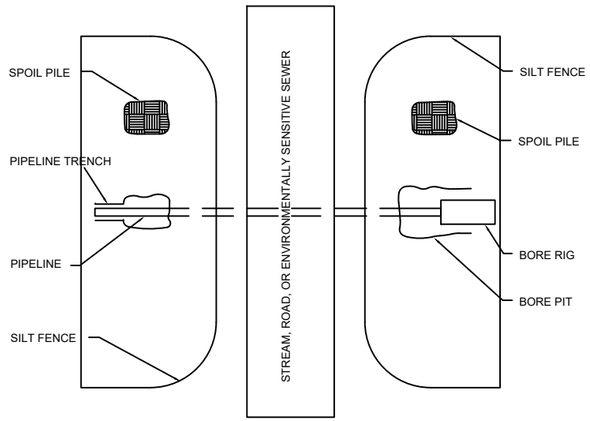


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

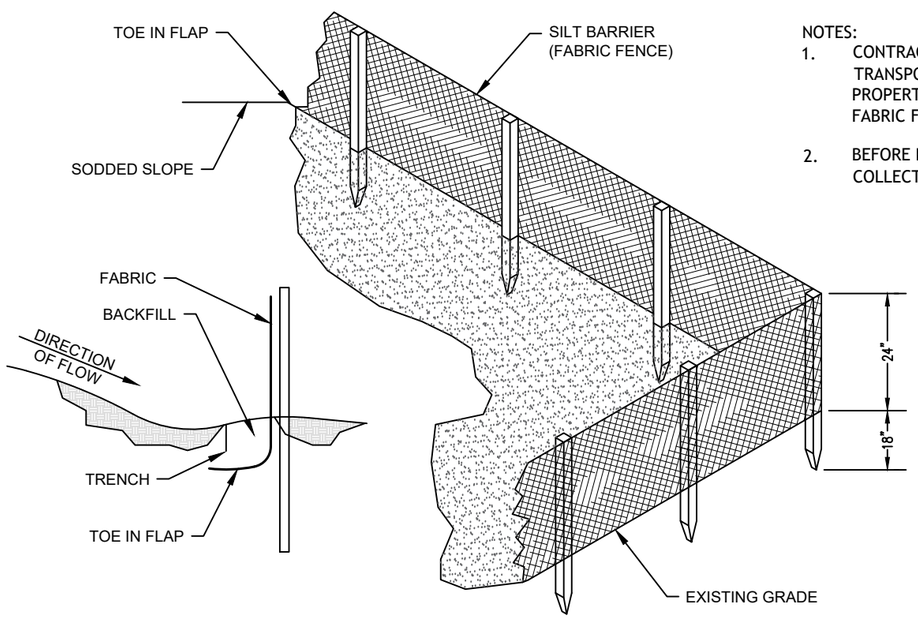
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

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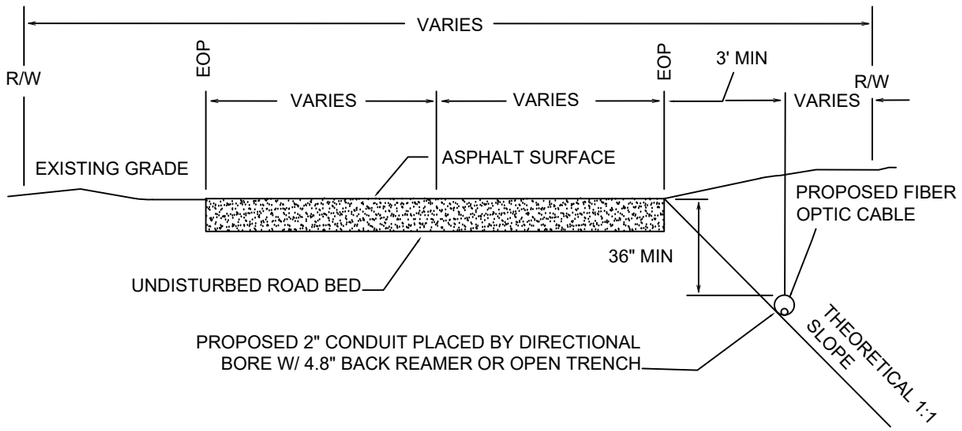
SHEET TITLE: TYPICALS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_016_FDH_01
DESCRIPTION:	JIG CANAL
DRAWING NAME:	LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL
SHEET:	10 OF 12

TYPICALS

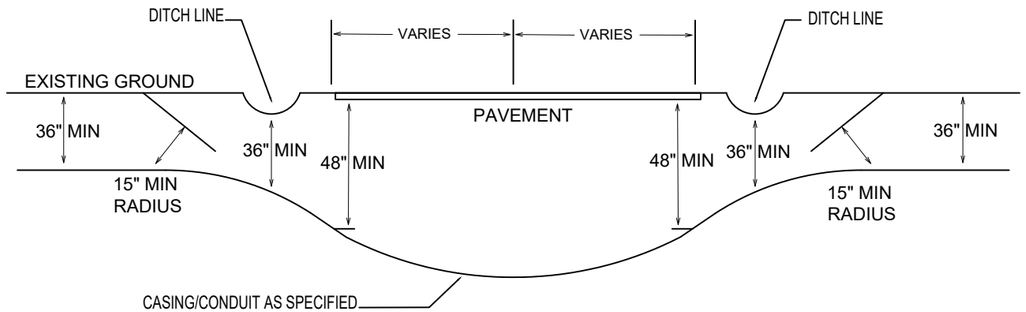
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



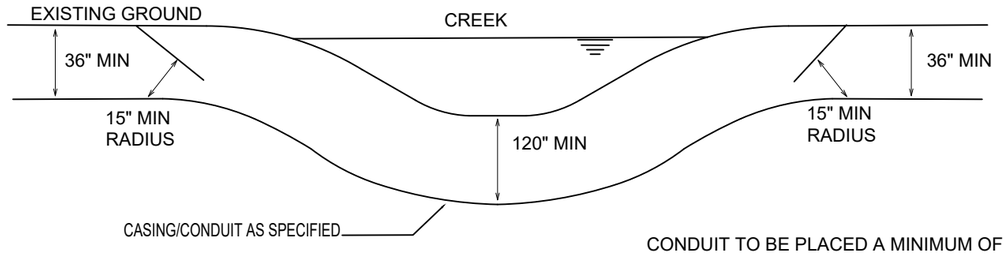
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

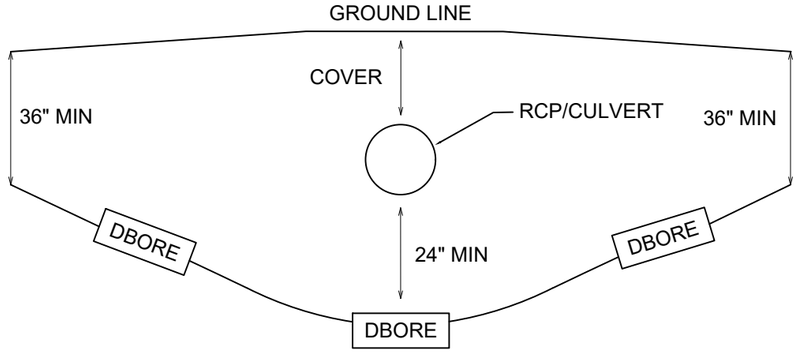
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 10 FEET BELOW CREEK BED

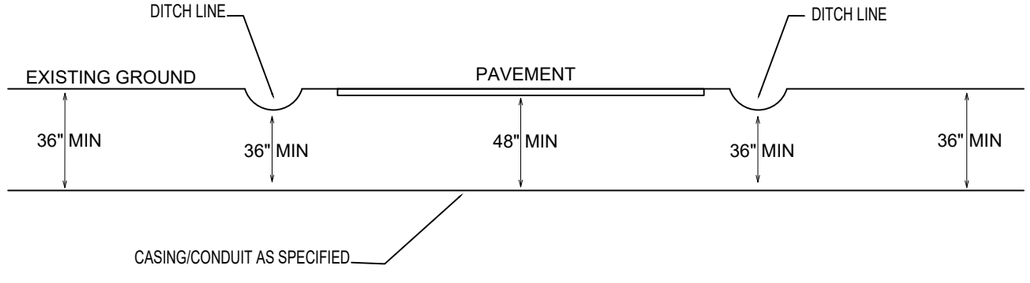
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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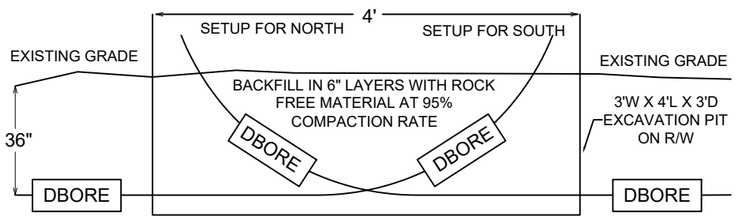
SHEET:	11 OF 12

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

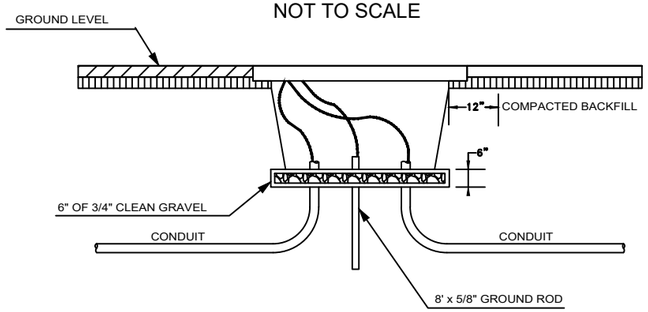


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

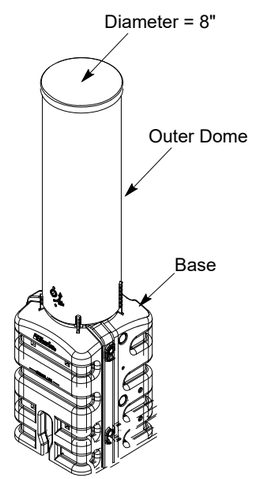
PULL BOX HANDHOLE

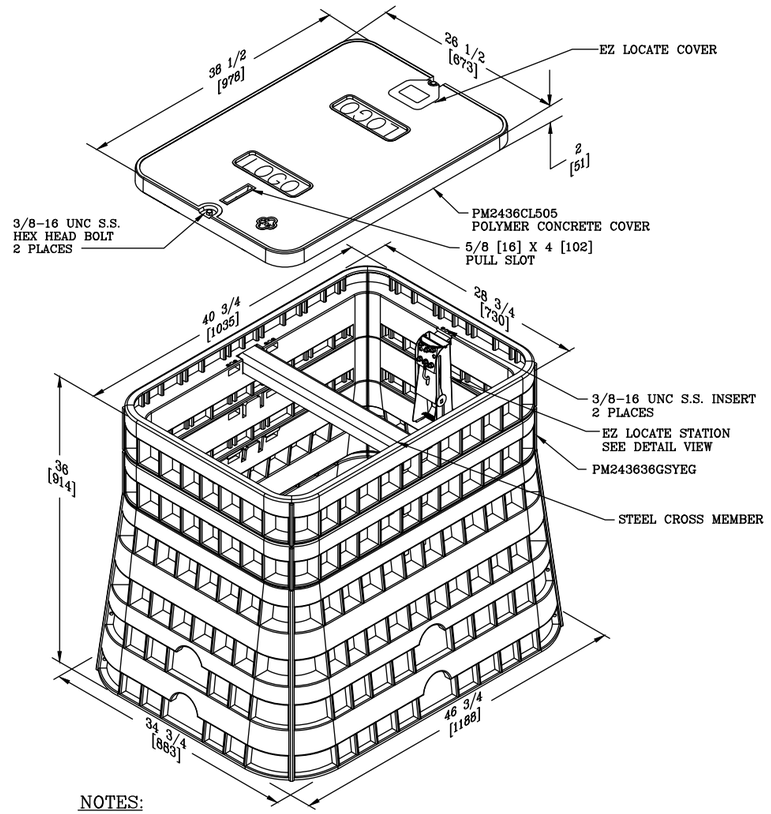
NOT TO SCALE



ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED ACCORDING TO THE PROCEDURES AND REQUIREMENTS SET FORTH IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652.

BDO204-EG

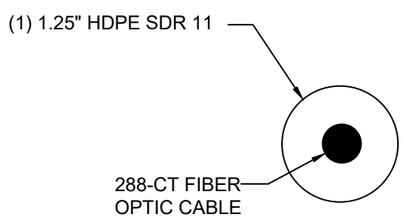




NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

PIPE DETAIL



PERMITTING AGENCY

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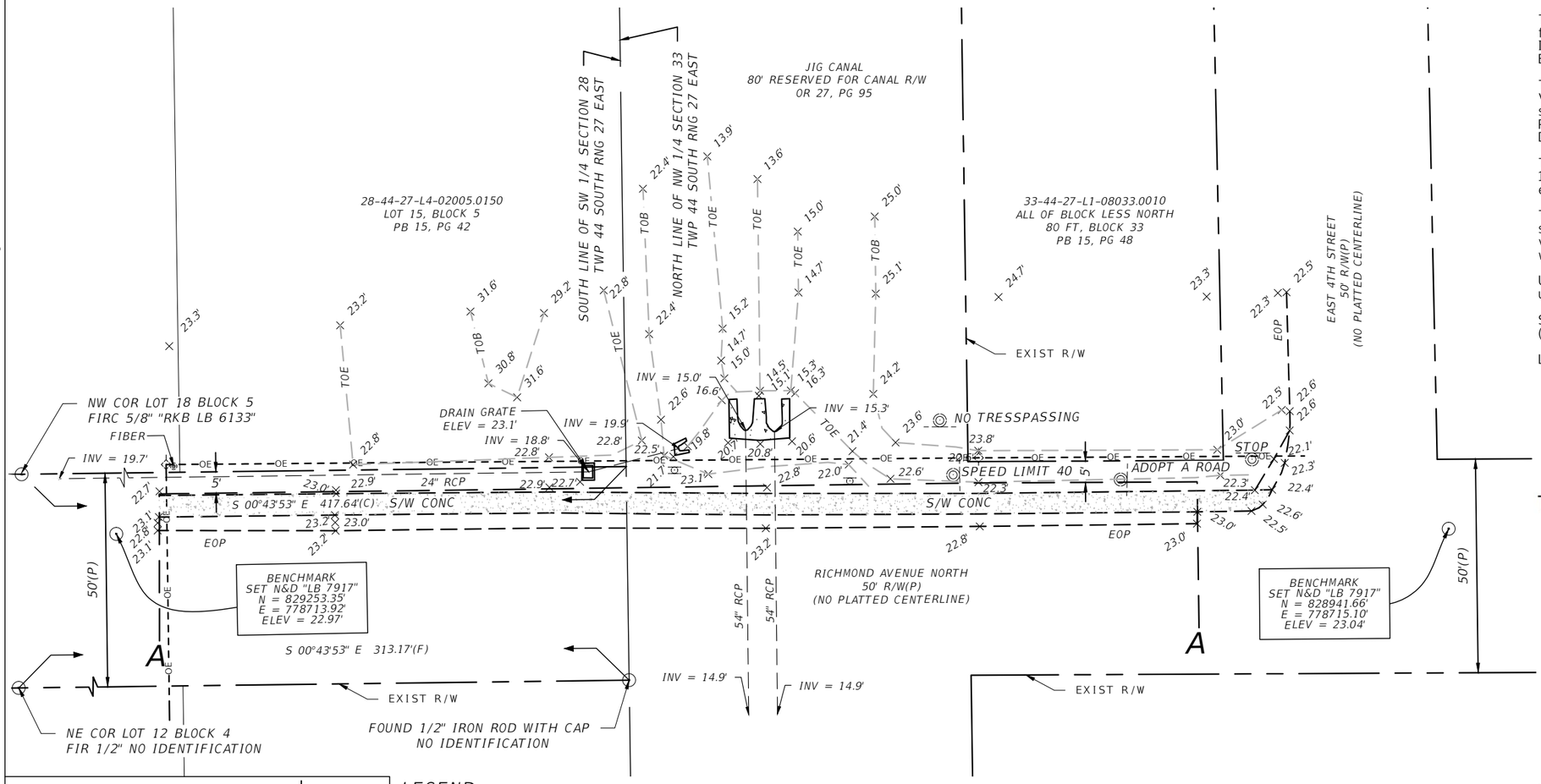
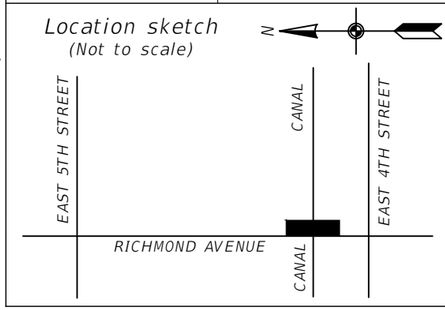
PROJECT NUMBER:	LE1_016_FDH_01
DESCRIPTION:	JIG CANAL
DRAWING NAME:	LE1_016_FDH_01 - LEHIGH ACRES_LEE COUNTY_FLORIDA - JIG CANAL
SHEET:	12 OF 12

\\mckimcreed.com\nasun\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L090-405 RICHMOND AVE N\L90-405 Richmond Ave.dwg

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



Location sketch
(Not to scale)



LEGEND:

(C)	= CALCULATED	INV	= INVERT ELEVATION
(F)	= FIELD MEASURED	N&D	= NAIL AND DISK
(P)	= PER PLAT	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
CB	= CATCH BASIN	OR	= OFFICIAL RECORDS BOOK
Δ	= DELTA ANGLE	PB	= PLAT BOOK
℄	= CENTER LINE	PG	= PAGE
CONC	= CONCRETE	R/W	= RIGHT OF WAY
CMP	= CORRUGATED METAL PIPE	RCP	= REINFORCED CONCRETE PIPE
CPP	= CORRUGATED PLASTIC PIPE	RNG	= RANGE
DUE	= DRAINAGE AND UTILITY EASEMENT	S/W	= SIDEWALK
ELEV	= ELEVATION	SEC	= SECTION
EOP	= EDGE OF PAVEMENT	TOB	= TOP OF BANK
EXIST	= EXISTING	TOE	= TOE OF SLOPE
FIRC	= FOUND IRON ROD AND CAP	TWP	= TOWNSHIP
INST#	= INSTRUMENT NUMBER	(TYP)	= TYPICAL

⊙	= FOUND MONUMENT
OE	= OVERHEAD UTILITY LINE
+20.0'	= SPOT ELEVATION
	= ELECTRICAL POLE
	= SINGLE SUPPORT SIGN
	= SUBSURFACE UTILITY MARKER
	= DELINEATOR POST

Topographic Survey of a Subject Project Site

LYING WITHIN

Section 28 & 33, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida

NOTES:
Survey based on the Plat of Section 28 as recorded in Plat Book 15 Page 42, Plat of Section 33 as recorded in Plat Book 15 Page 48 and Plat of Unit 2 Carlton Park as recorded in Plat Book 20 Page 3, Public Records of Lee County, Florida and existing monumentation.

This survey is a Topographic Survey for the purpose of locating the features within and adjacent to the Lehigh Acres Municipal Services Improvement District-managed facility East of Richmond Avenue between East 4th Street and East 5th Street.

The elevations shown hereon are referenced to the North American Vertical Datum of 1988 (NAVD 1988). All elevations are reported in US survey feet and decimals thereof and are based upon the Florida Permanent Reference Network (FPRN) stations maintained by the Florida Department of Transportation.

The subject site lies within Zone "X" per FEMA insurance rate map 125124 0476F (Published 08/28/2008), therefore has no base flood elevation.

The FEMA flood zone information indicated hereon is based on the maps supplied by the Federal Government. This flood information must be verified with all permitting regulatory entities prior to commencing any work or application dependent on said flood information.

Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 02/03/2026

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

Taylor Henninge 2026.03.30 14:25:41-04'00

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

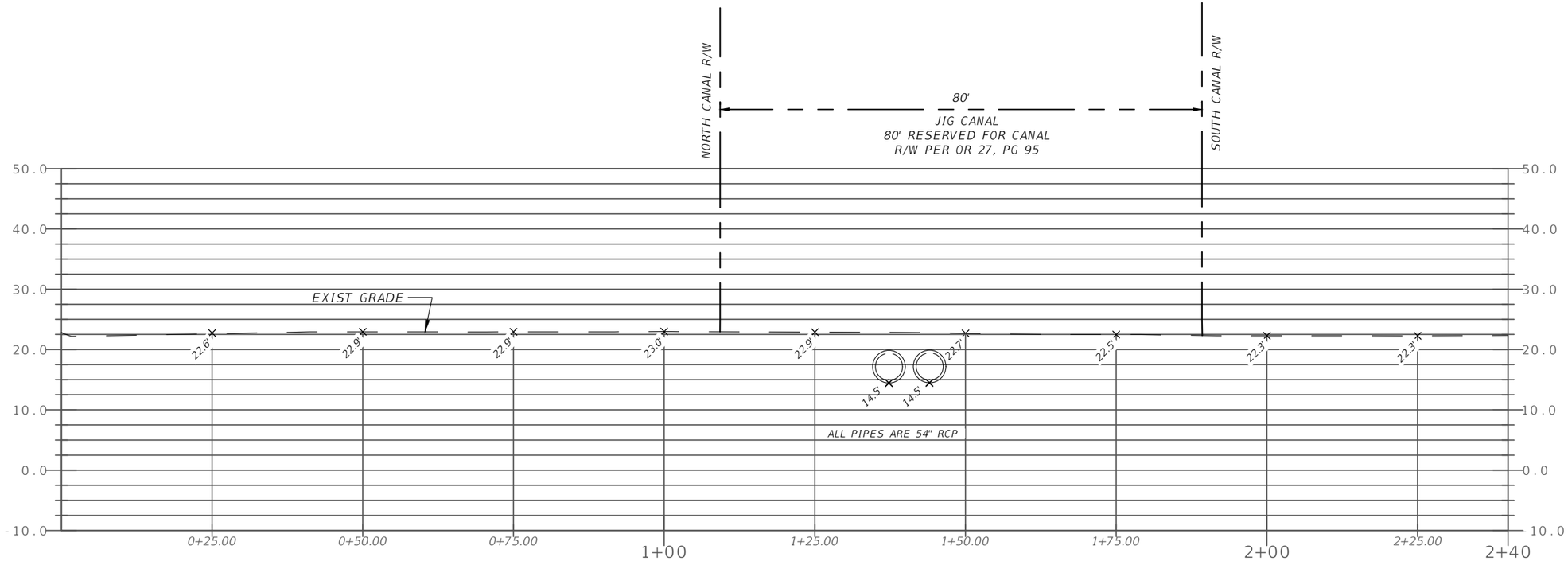
Richmond Avenue North, Lehigh Acres

TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name: L90-405 Richmond Ave.dwg	Field book/page: 106981/40		Project No.: 106980001-L090
Survey date: 02/03/2026	Drawn by: KB	Checked by: TJH	Sheet No.: 01 OF 02

Topographic Survey of a
Subject Project Site
Section 28 & 33, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Richmond Avenue North, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L90-405 Richmond Ave.dwg	106981/40	106980001-L090

Survey date:	Drawn by:	Checked by:	Sheet No.:
02/03/2026	KB	TJH	02 OF 02

\\mckimcreed.com\nasuni\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L090-405 RICHMOND AVE N\L90-405 Richmond Ave.dwg

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

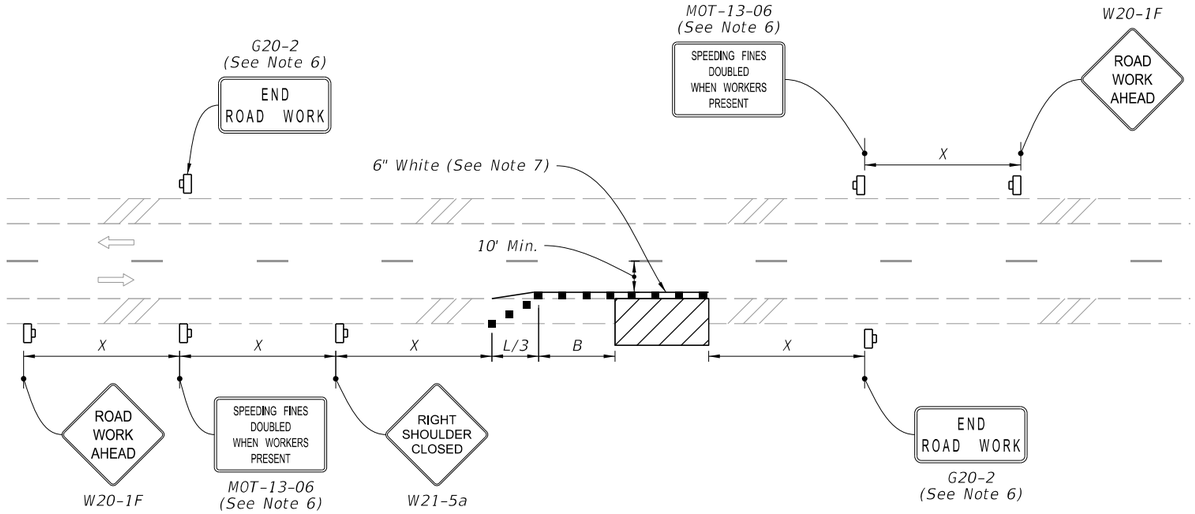
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

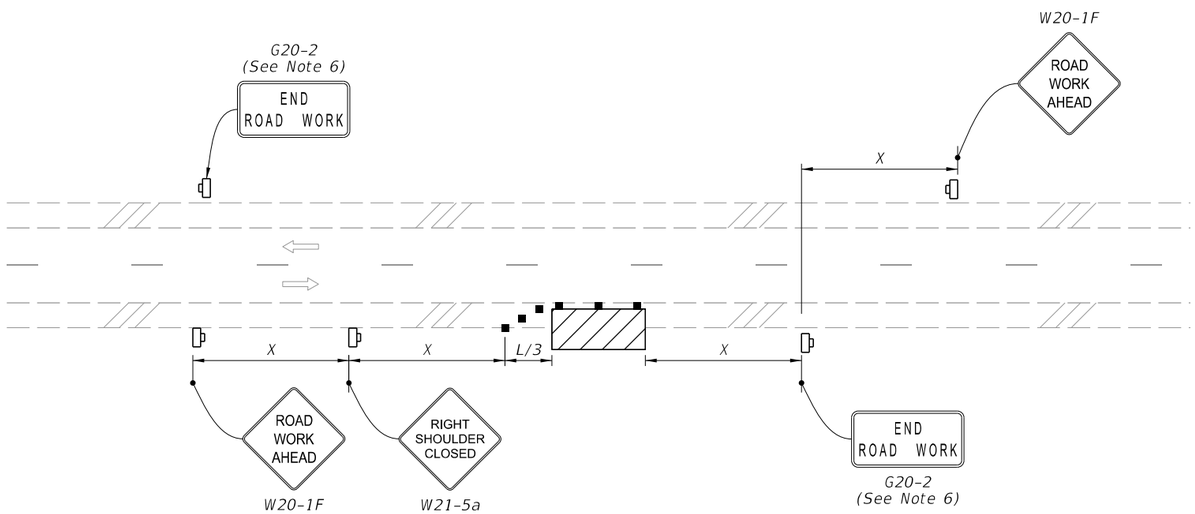
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



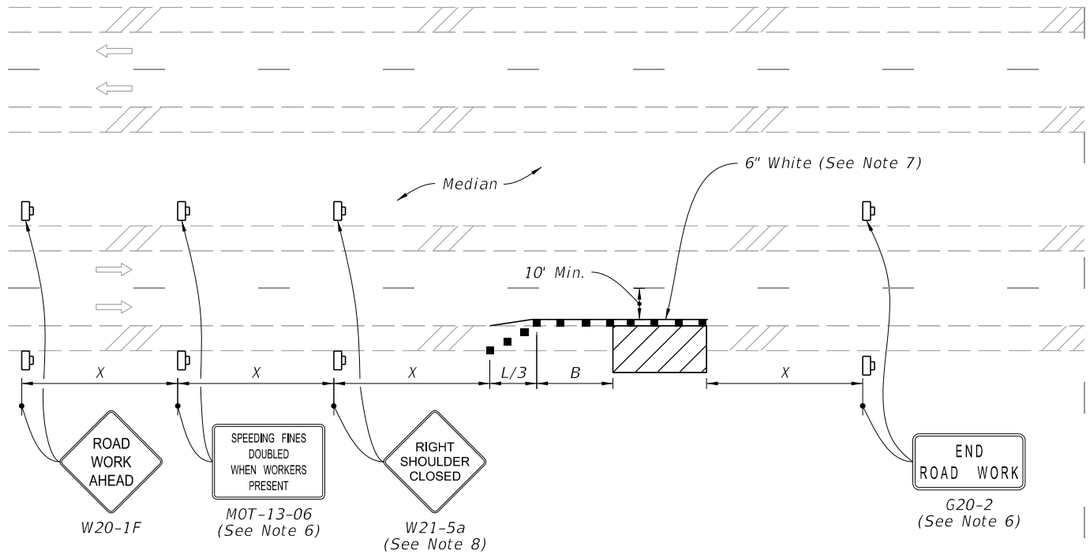
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



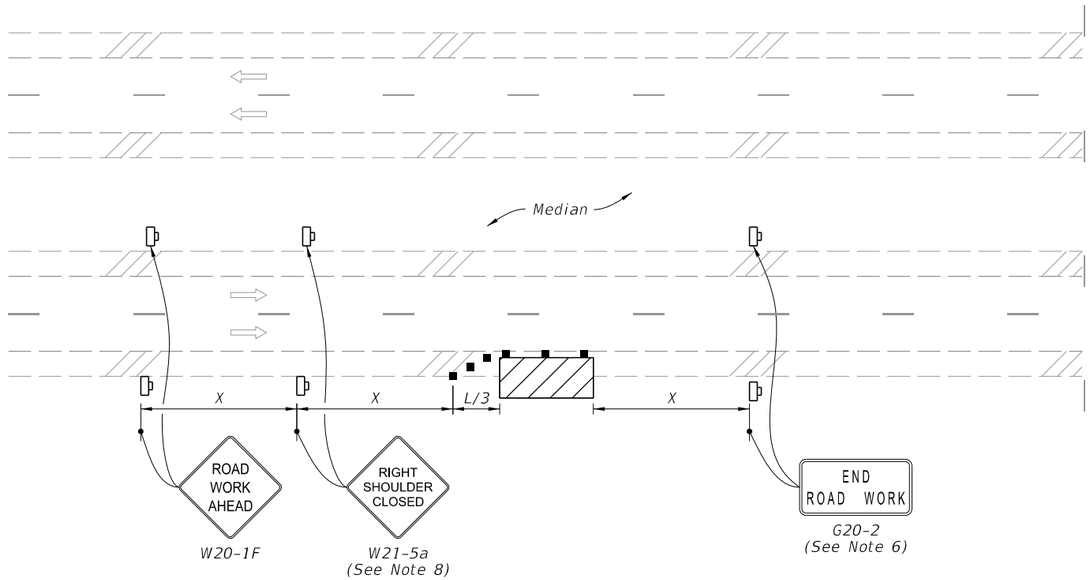
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

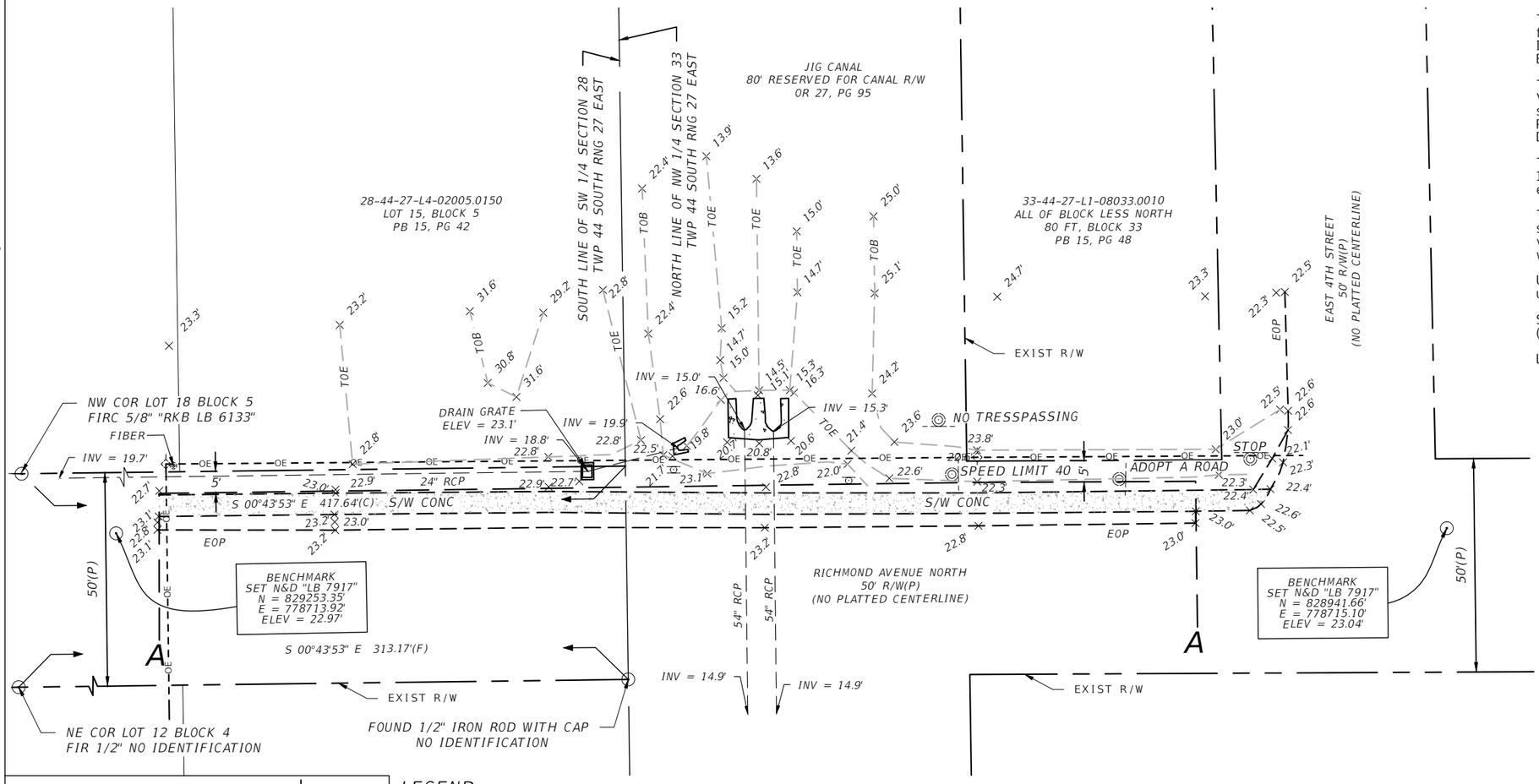
MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:44 AM

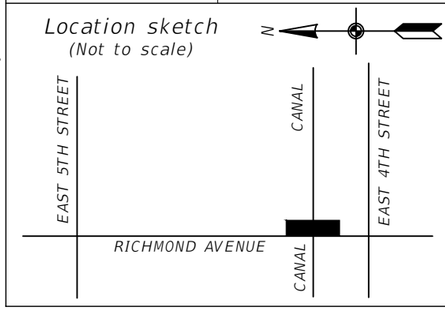
LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FDOT FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

\\mckimcreed.com\nasun\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L090-405 RICHMOND AVE N\L90-405 Richmond Ave.dwg

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



Location sketch
(Not to scale)



LEGEND:

(C)	= CALCULATED	INV	= INVERT ELEVATION
(F)	= FIELD MEASURED	N&D	= NAIL AND DISK
(P)	= PER PLAT	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
CB	= CATCH BASIN	OR	= OFFICIAL RECORDS BOOK
Δ	= DELTA ANGLE	PB	= PLAT BOOK
℄	= CENTER LINE	PG	= PAGE
CONC	= CONCRETE	R/W	= RIGHT OF WAY
CMP	= CORRUGATED METAL PIPE	RCP	= REINFORCED CONCRETE PIPE
CPP	= CORRUGATED PLASTIC PIPE	RNG	= RANGE
DUE	= DRAINAGE AND UTILITY EASEMENT	S/W	= SIDEWALK
ELEV	= ELEVATION	SEC	= SECTION
EOP	= EDGE OF PAVEMENT	TOB	= TOP OF BANK
EXIST	= EXISTING	TOE	= TOE OF SLOPE
FIRC	= FOUND IRON ROD AND CAP	TWP	= TOWNSHIP
INST#	= INSTRUMENT NUMBER	(TYP)	= TYPICAL

= FOUND MONUMENT
OE = OVERHEAD UTILITY LINE
+20.0' = SPOT ELEVATION
= ELECTRICAL POLE
= SINGLE SUPPORT SIGN
= SUBSURFACE UTILITY MARKER
= DELINEATOR POST

Topographic Survey of a Subject Project Site

LYING WITHIN

Section 28 & 33, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida

NOTES:
Survey based on the Plat of Section 28 as recorded in Plat Book 15 Page 42, Plat of Section 33 as recorded in Plat Book 15 Page 48 and Plat of Unit 2 Carlton Park as recorded in Plat Book 20 Page 3, Public Records of Lee County, Florida and existing monumentation.

This survey is a Topographic Survey for the purpose of locating the features within and adjacent to the Lehigh Acres Municipal Services Improvement District-managed facility East of Richmond Avenue between East 4th Street and East 5th Street.

The elevations shown hereon are referenced to the North American Vertical Datum of 1988 (NAVD 1988). All elevations are reported in US survey feet and decimals thereof and are based upon the Florida Permanent Reference Network (FPRN) stations maintained by the Florida Department of Transportation.

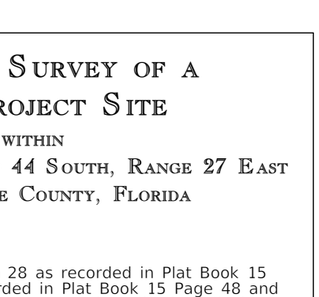
The subject site lies within Zone "X" per FEMA insurance rate map 125124 0476F (Published 08/28/2008), therefore has no base flood elevation.

The FEMA flood zone information indicated hereon is based on the maps supplied by the Federal Government. This flood information must be verified with all permitting regulatory entities prior to commencing any work or application dependent on said flood information.

Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 02/03/2026



TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

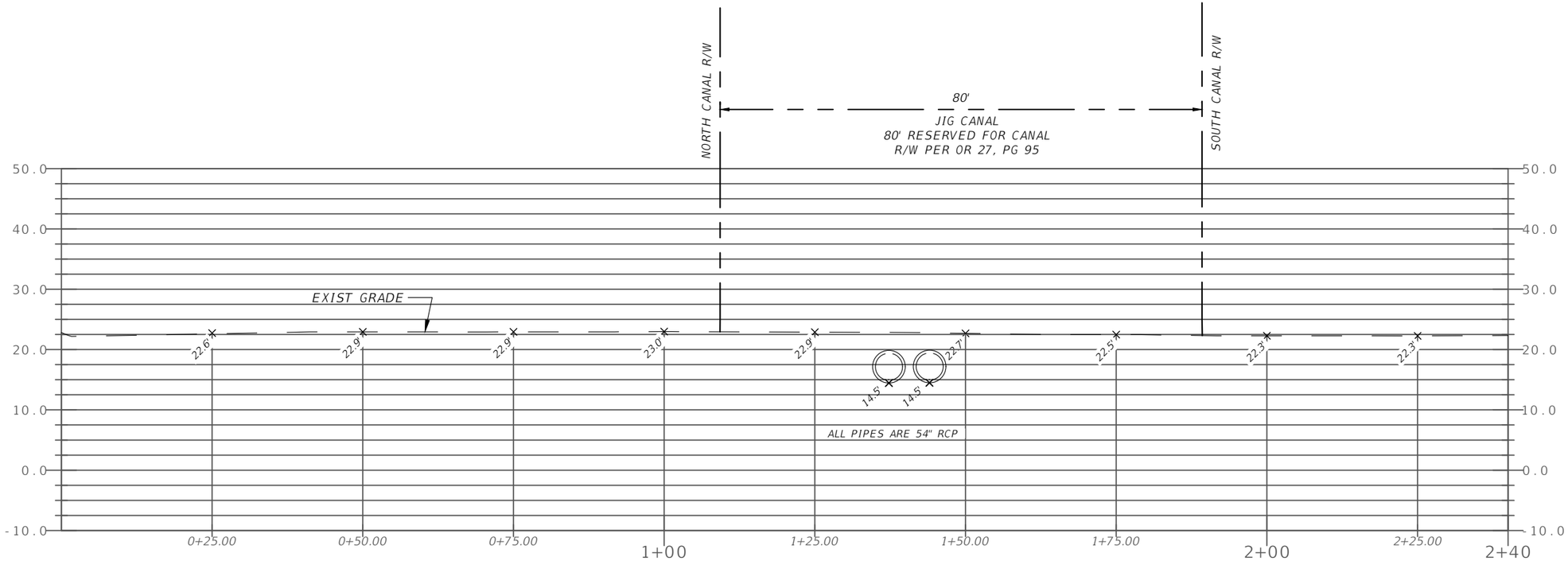
Richmond Avenue North, Lehigh Acres

TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name: L90-405 Richmond Ave.dwg	Field book/page: 106981/40		Project No.: 106980001-L090
Survey date: 02/03/2026	Drawn by: KB	Checked by: TJH	Sheet No.: 01 OF 02

Topographic Survey of a
Subject Project Site
Section 28 & 33, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Richmond Avenue North, Lehigh Acres

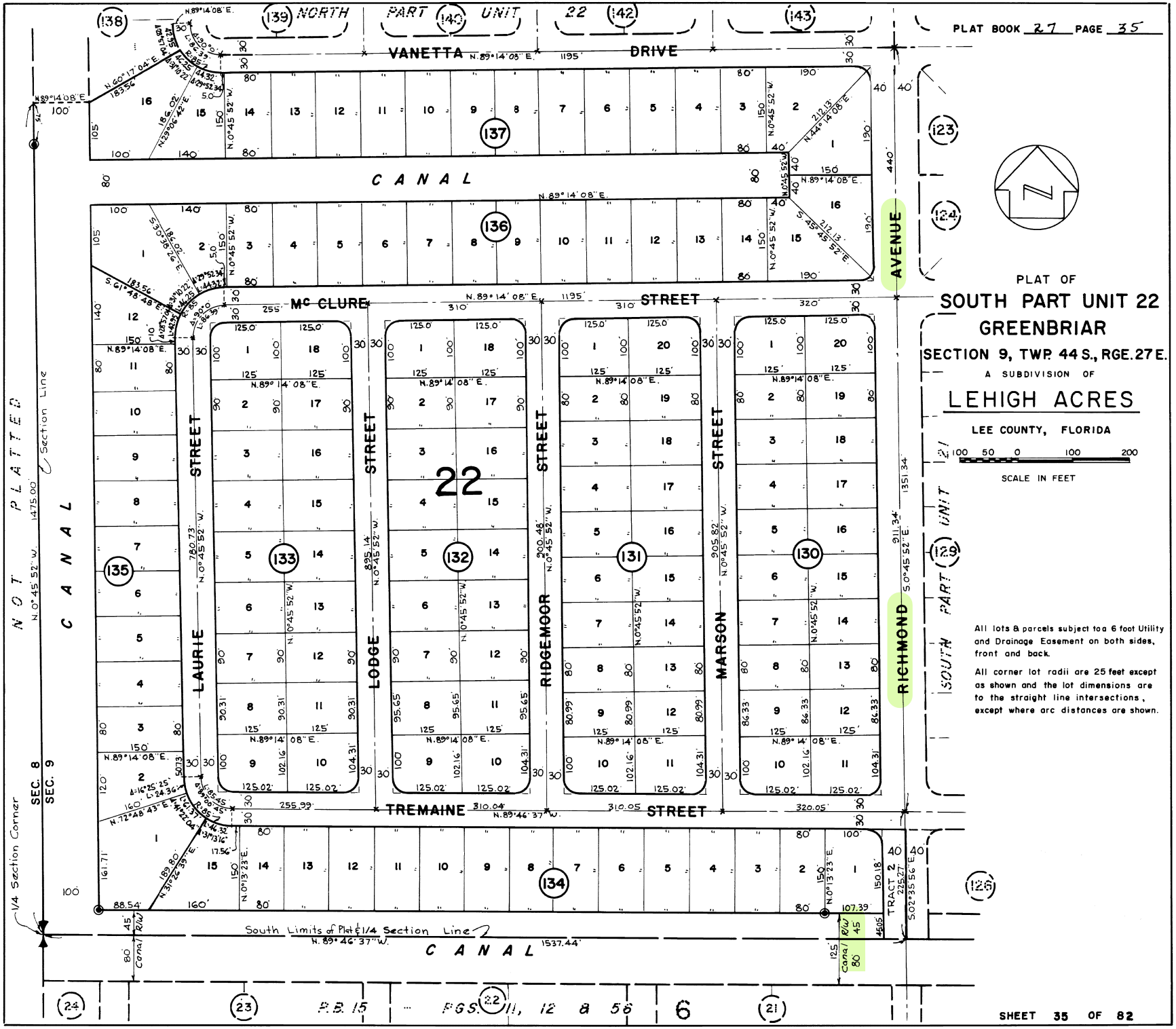
TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L90-405 Richmond Ave.dwg	106981/40	106980001-L090

Survey date:	Drawn by:	Checked by:	Sheet No.:
02/03/2026	KB	TJH	02 OF 02

\\mckimcreed.com\nasuni\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L090-405 RICHMOND AVE N\L90-405 Richmond Ave.dwg


PLAT BOOK 27 PAGE 35
NORTH PART UNIT 22
VANETTA DRIVE
CANAL
AVENUE
McCLURE STREET
TREMAINE STREET
LAURIE STREET
LODGE STREET
RIDGEMOOR STREET
MARSON STREET
RICHMOND AVENUE
SOUTH PART UNIT 21
NOT PLATTED
Section Line
SEC. 8
SEC. 9
1/4 Section Corner
South Limits of Plat & 1/4 Section Line
TRACT 2
PLAT OF
SOUTH PART UNIT 22
GREENBRIAR
SECTION 9, TWP. 44 S., RGE. 27 E.
A SUBDIVISION OF
LEHIGH ACRES
LEE COUNTY, FLORIDA
SCALE IN FEET
All lots & parcels subject to a 6 foot Utility and Drainage Easement on both sides, front and back.
All corner lot radii are 25 feet except as shown and the lot dimensions are to the straight line intersections, except where arc distances are shown.
P.B. 15 — PGS. 11, 12 & 56
SHEET 35 OF 82

PART IV #26-74

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ Approved ___ Denied ___

District Manager: _____ Date: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Jig Canal (47-28-1) at 405 Richmond Ave. N., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Please include an annotation on Sheet 7 clearly indicating that there is a minimum 10' offset between the boring and the pipe inverts located in the center of the canal or reword "Must maintain min 10' below bottom of canal *or lowest pipe invert elevation* in LA-MSID ROW".

2. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

3. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

4. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

5. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

6. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under W. Baker Canal (47-16-2), along the east side of Richmond Ave. N., between E. 13th St. & E. 12th St., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-75

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-75 is approved according to the plans submitted April 30th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 138' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Richmond Ave. N.

0	3	-	3	0	-	2	6																
						2	6	-	7	5													

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: WILLIAM KIEFER **PHONE #:** (515) 306 - 3403

PROJECT NAME: 1206 RICHMOND AVE N - WEST BAKER CANAL 47-16-12

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 1206 RICHMOND AVE N					
Mailing Address:	N/A				
City:	LEHIGH ACRES	**State:**	FLORIDA	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary*):

1	6	-	4	4	-	2	7	-	L	4	-	0	2	0	0	5	-	0	1	1	0		
		-			-			-			-						-						
		-			-			-			-						-						
		-			-			-			-						-						
		-			-			-			-						-						

Brief description of proposed project:

Application for: DIRECTIONAL BORE 2x1.25" HDPE SDR 11 CONDUIT 138' IN THE LAMSID ROW OF WEST BAKER CANAL (47-16-12) ALONG RICHMOND AVE N

RECEIVED
APR 30 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$2820.00 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	LUMOS FIBER OF FLORIDA, LLC						
Mailing Address:	**Street:**	4100 MENDENHALL OAKS PKWY, SUITE 300					
City:	HIGH POINT	**State:**	NORTH CAROLINA		**Zip:**	27265	
Phone No.	**Area Code:**	515	**Number:**	306 - 3403	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	WILLIAM.KIEFER@LUMOSFIBER.COM						

B. Relationship of applicant to property*:

Owner* ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee*** ☐

Contract Purchaser* ☐ **Other (indicate)*** ☑ UTILITY

C.

Name of Developer:	MILENIUM DIRECTIONAL DRILLING, INC						
Mailing Address:	**Street:**	5395 COGSWELL DR					
	WAYNE	**State:**	MI		**Zip:**	48184	
	Area Code:	(313)	**Number:**	326 - 2333	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	FELECAND@MILENIUMBORS.COM						

D.

Name of Authorized Agent(s):	CENTILLION SOLUTIONS						
Mailing Address:	**Street:**	6030 BETHELVIEW RD, SUITE 301					
City:	CUMMING	**State:**	GEORGIA		**Zip:**	30040	
Phone No.	**Area Code:**	(480)	**Number:**	442 - 0562	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	KYLE.PARKEY@CENTILLIONSOLUTIONS.COM						

E.

Name of Property owner:	N/A						
Mailing Address:	**Street:**						
City:		**State:**			**Zip:**		
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

	-		-		-					-				

PRIMARY STRAP NUMBER:

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

WILLIAM KIEFER
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 28th day of April (m), 2026 (y), by William Kiefer who is personally know to me ~~or has~~ produced _____ ~~as identification~~.

ANDREW P. STEVENSON
Notary Public, North Carolina
Guilford County
My Commission Expires
November 06, 2026

Andrew P. Stevenson
SIGNATURE OF NOTARY PUBLIC

Andrew P. Stevenson
PRINTED NAME OF NOTARY PUBL

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

ENGINEER

Name:	MCKIM & CREED						
Mailing Address:	5701 DIVISION DR, STE A						
City:	FORT MYERS	**State:**		FLORIDA		**Zip:**	33905
Business No.	**Area Code:**	(239)	**Number:**	980 -	3384	**Ext.**	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	BLAIR CONSULTING SERVICES, INC						
Mailing Address:	1428 SUNBLUSH LN						
City:	LAS VEGAS	**State:**		NV		**Zip:**	89117
Business No.	**Area Code:**	(813)	**Number:**	579 -	0128	**Ext.**	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
NA	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
NA	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
NA	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/11/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-75	Lumos Bore under W. Baker Canal (47-16-2) At Richmond Ave. N.	Total Fee $2,820.00
	Permit Fee: $750 + $15 X 138' R/W = $750 + $2070	Due From Deposit
	Total Fee = $2,820.00	
		TOTAL $2,820.00

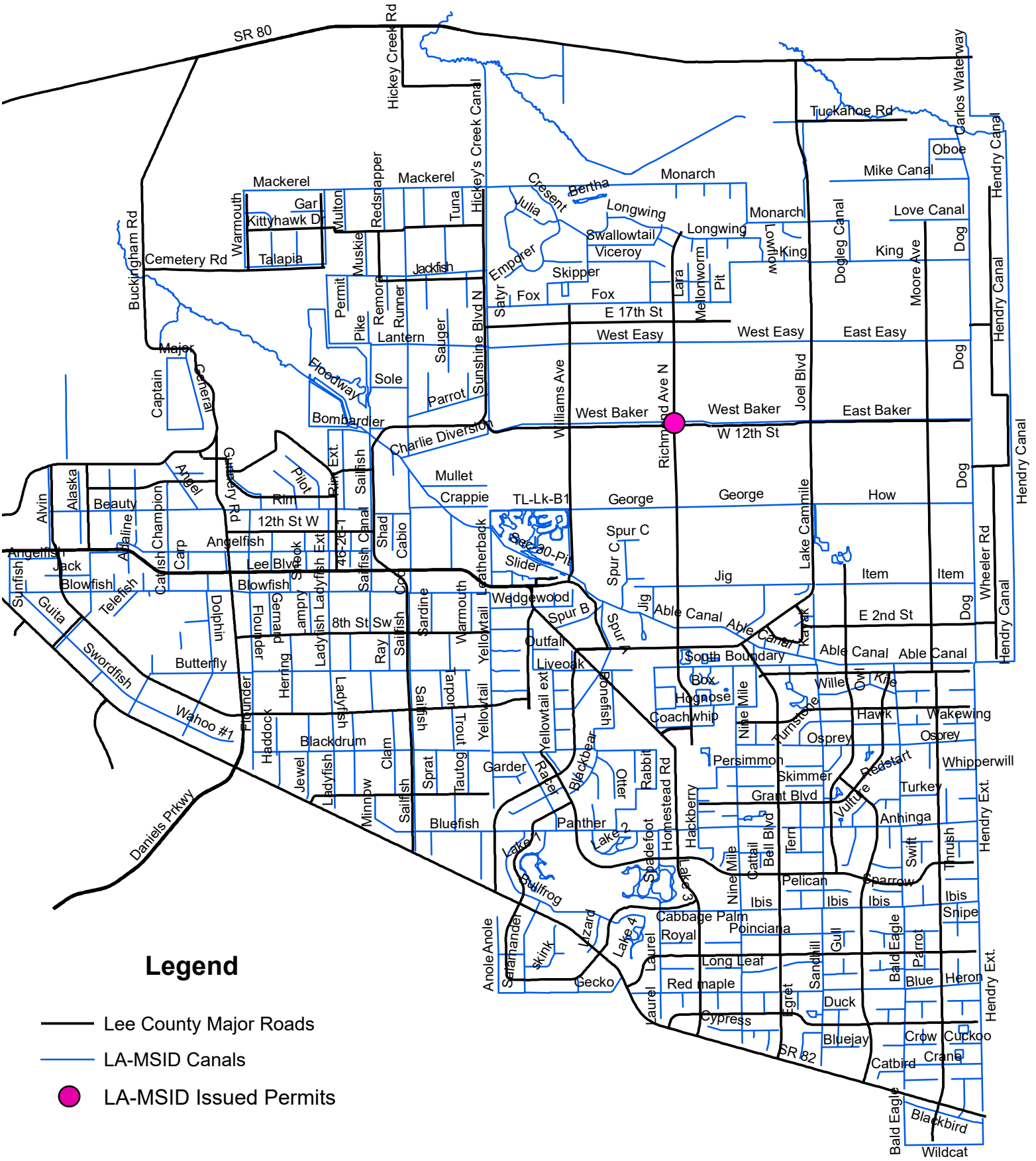
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/11/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry**.

*The CR account will need to be changed based on the customer. See accounting to setup new customer deposit accounts.

Permit # 2026-75

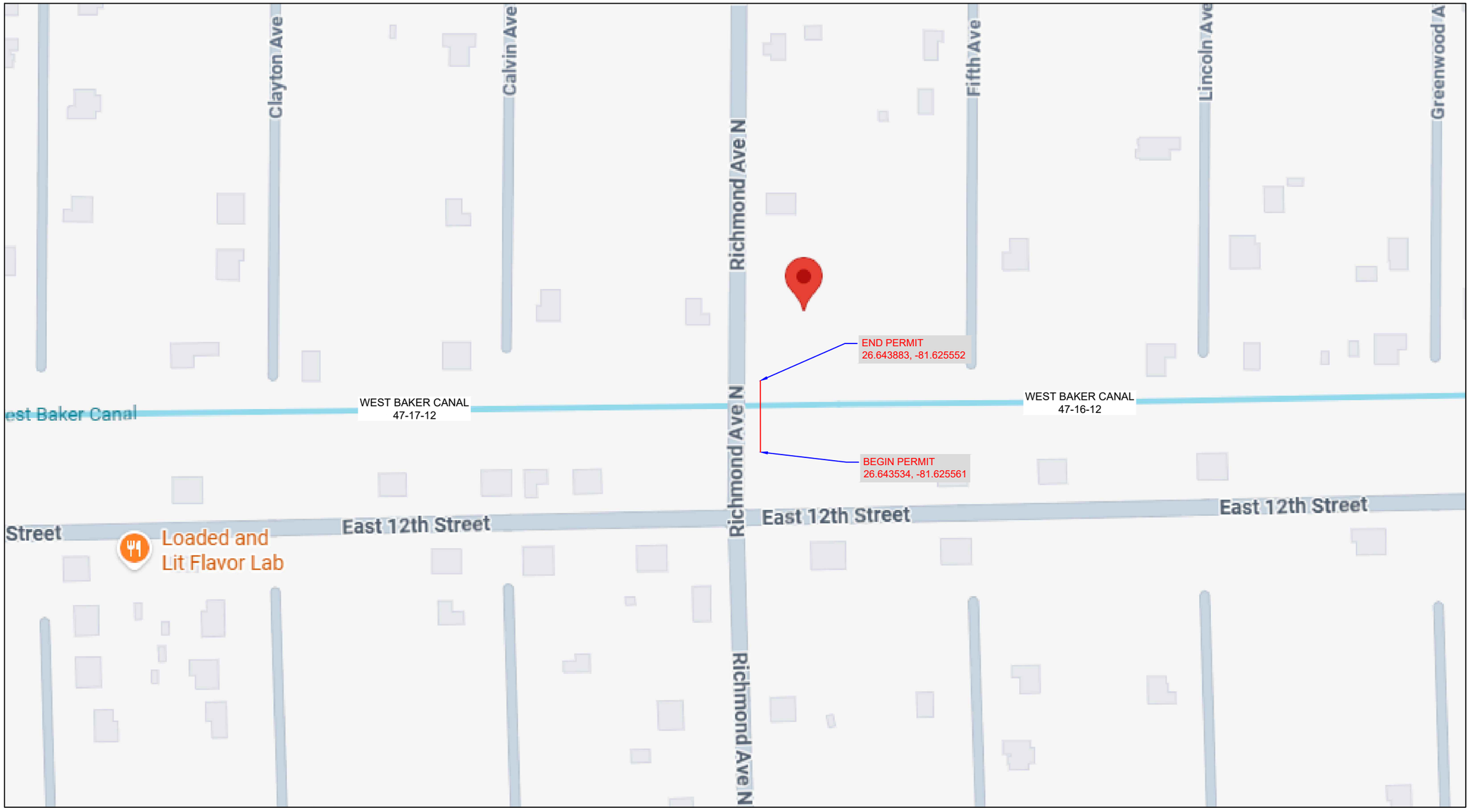


Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

LE1_008_FDH_014 - LEHIGH ACRES_LEE COUNTY_FLORIDA - WEST BAKER CANAL

1206 RICHMOND AVE N, LEHIGH ACRES, FL 33972 (26.643822, -81.625550)



PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 306' OF (1) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 288-CT FIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
1	COVER SHEET	7	PROFILE VIEW
2	SOW AND CONTACTS	8 - 9	IMAGES
3	LEGEND	10 - 12	TYPICALS
4 - 5	GENERAL NOTES		
6	PROJECT SHEETS		

PERMITTING AGENCY

LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

Blair Consulting Services, INC
1428 Sunblush Ln, Las Vegas, NV 89117
Fabio Perassi - Project Manager
fsperassi@gmail.com

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: COVER SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_008_FDH_014
DESCRIPTION:	WEST BAKER CANAL
DRAWING NAME:	LE1_008_FDH_014 - LEHIGH ACRES_LEE COUNTY_FLORIDA - WEST BAKER CANAL
SHEET:	1 OF 12

SCOPE OF WORK

- BURIED PLACEMENT OF 306' OF (1) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 288-CT MICROFIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
William Kiefer - OSP Project Engineer
William.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

ENGINEERING COMPANY

Blair Consulting Services, INC
1428 Sunblush Ln,
Las Vegas, NV 89117

PROJECT MANAGER
Fabio Perassi
813-579-0128
fsperassi@gmail.com

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

LEE COUNTY ELECTRIC CO-OP
TOM BAILEY
(239) 656-2414

LUMOS FIBER OF FLORIDA, LLC
MARLON BROWN - SR DIRECTOR
MARLON.BROWN@LUMOSFIBER.COM
(540) 278-0304

FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

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LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: SOW & CONTACTS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_008_FDH_014
DESCRIPTION:	WEST BAKER CANAL
DRAWING NAME:	LE1_008_FDH_014 - LEHIGH ACRES_LEE COUNTY_FLORIDA - WEST BAKER CANAL
SHEET:	2 OF 12

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F	
	IN: 0
	OUT: 0

SEQUENTIAL CALLOUT

#F	
	IN: 0
	TAIL: 0

SEQUENTIAL IN TAIL CALLOUT

#F	
	TAIL: 0
	OUT: 0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

PERMITTING AGENCY
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BLAIR CONSULTING SERVICES, Inc.
1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: LEGEND

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_008_FDH_014
DESCRIPTION:	WEST BAKER CANAL
DRAWING NAME:	LE1_008_FDH_014 - LEHIGH ACRES_LEE COUNTY_FLORIDA - WEST BAKER CANAL
SHEET:	3 OF 12

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

PERMITTING AGENCY

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:	GENERAL NOTES
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_008_FDH_014
DESCRIPTION:	WEST BAKER CANAL
DRAWING NAME:	LE1_008_FDH_014 - LEHIGH ACRES_LEE COUNTY_FLORIDA - WEST BAKER CANAL
SHEET:	4 OF 12

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

PERMITTING AGENCY

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:
GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_008_FDH_014
DESCRIPTION:	WEST BAKER CANAL
DRAWING NAME:	LE1_008_FDH_014 - LEHIGH ACRES_LEE COUNTY_FLORIDA - WEST BAKER CANAL
SHEET:	5 OF 12

PROPOSED BORE
PIT 03+06

RICHMOND AVE N

ESMT
R/W
EOP

6'
4'
13'
50'
13'
15'
6'

PROPOSED UTILITY
MARKER 02+22

WEST BAKER CANAL
47-17-12

WEST BAKER CANAL
47-16-12

15' 01+92

24'

137.70'

DIRECTIONAL BORE:
- (1) 1.25" HDPE SDR 11 CONDUIT
- 306'
- MINIMUM DEPTH = 196.8" STA– 00+84 TO 02+22

PROPOSED UTILITY
MARKER 00+84

14'
13'
15'
4'
50'
6'

PROPOSED BORE
PIT 00+00

24'

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0 10' 20' 30' 40'
SCALE: 1"=40'

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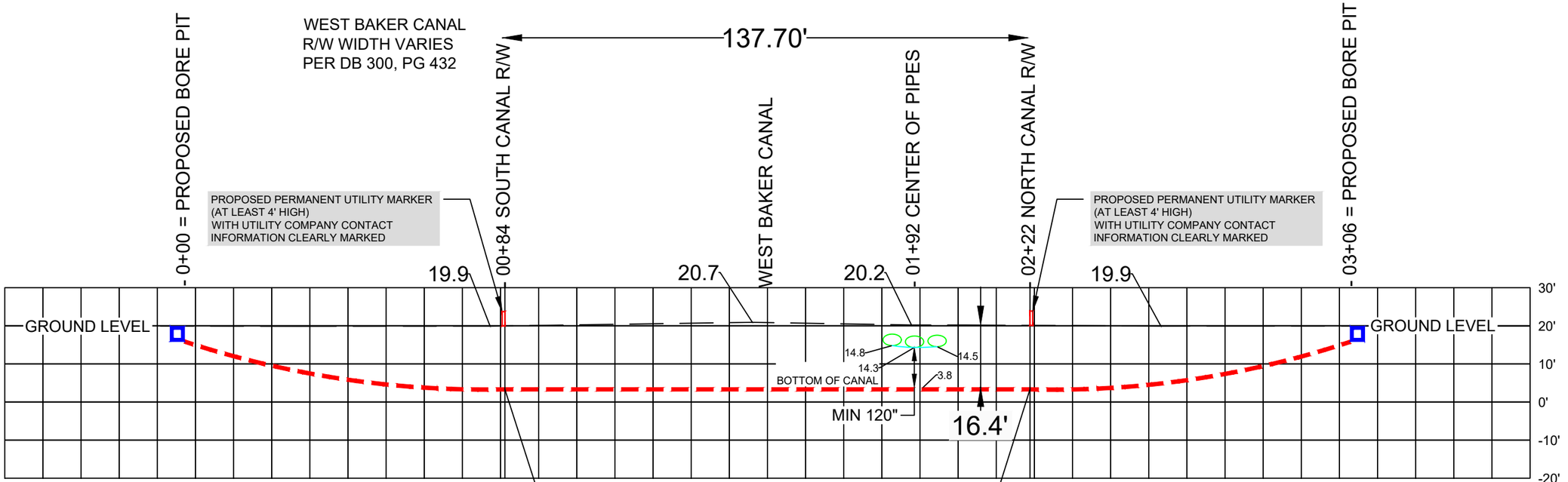
SHEET TITLE:
PROJECT SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_008_FDH_014
DESCRIPTION:	WEST BAKER CANAL
DRAWING NAME:	LE1_008_FDH_014 - LEHIGH ACRES_LEE COUNTY_FLORIDA - WEST BAKER CANAL
SHEET:	6 OF 12

SUB-GRADE VERTICAL PROFILE VIEW
RICHMOND AVE N
LOOKING WEST



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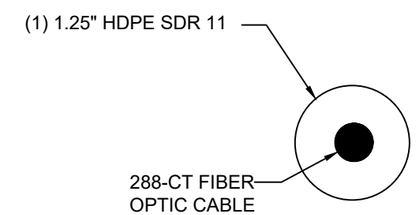
PIPE DETAIL



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811 Know what's below. Call before you dig.

0 10' 20' 30'
SCALE: 1"=30'

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SHEET TITLE:
PROFILE VIEW

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DESCRIPTION:	WEST BAKER CANAL
DRAWING NAME:	LE1_008_FDH_014 - LEHIGH ACRES_LEE COUNTY_FLORIDA - WEST BAKER CANAL
SHEET:	7 OF 12

STREET LEVEL VIEW
STA 01+61
FACING NORTH

03/09/2026 3:31PM
26.643742, -81.625567
401 EAST 12TH ST
LEHIGH ACRES, FL 33972

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SHEET TITLE: IMAGES

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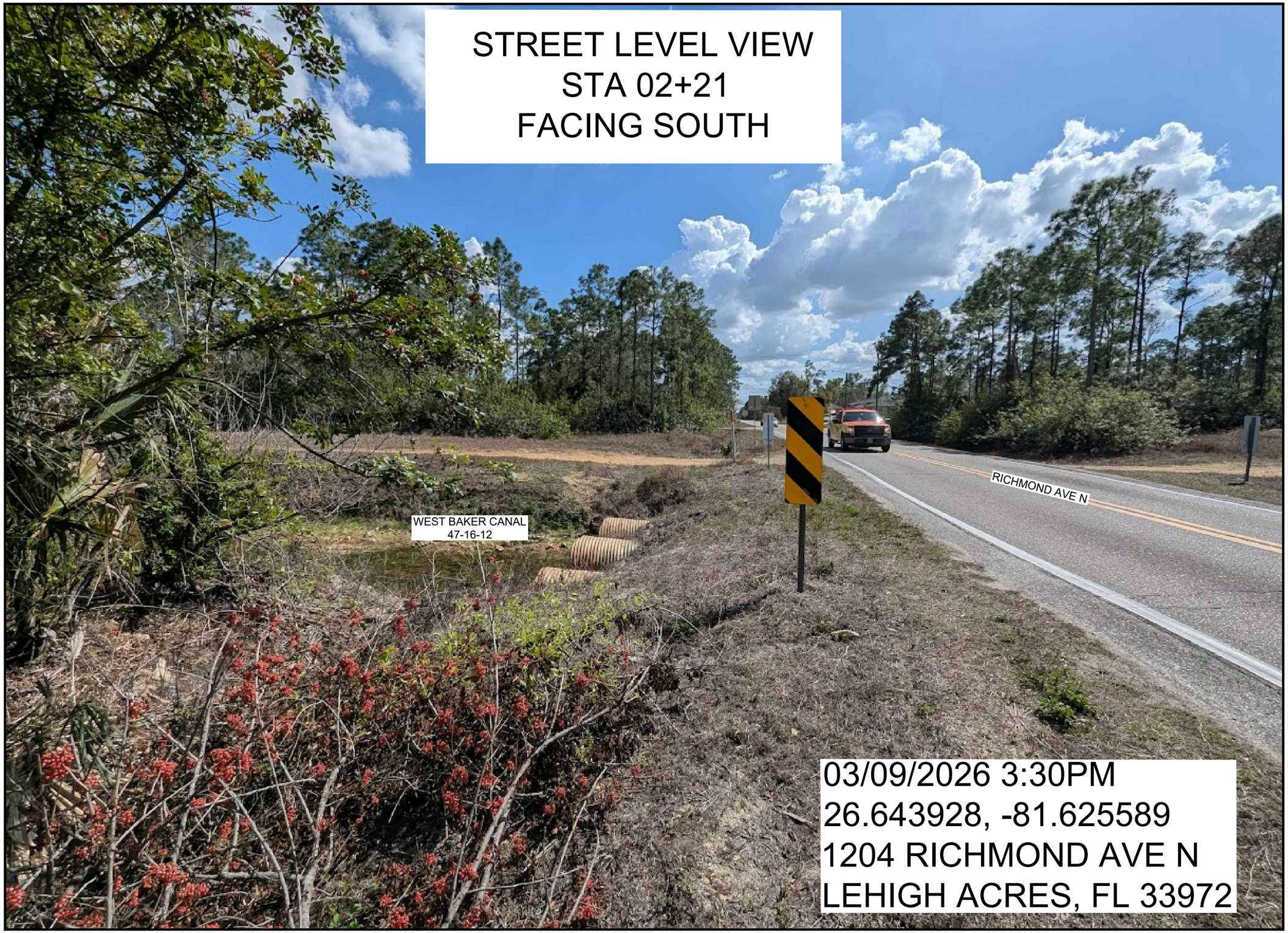
DESCRIPTION:	WEST BAKER CANAL
DRAWING NAME:	LE1_008_FDH_014 - LEHIGH ACRES_LEE COUNTY_FLORIDA - WEST BAKER CANAL
SHEET:	8 OF 12



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SHEET TITLE: IMAGES

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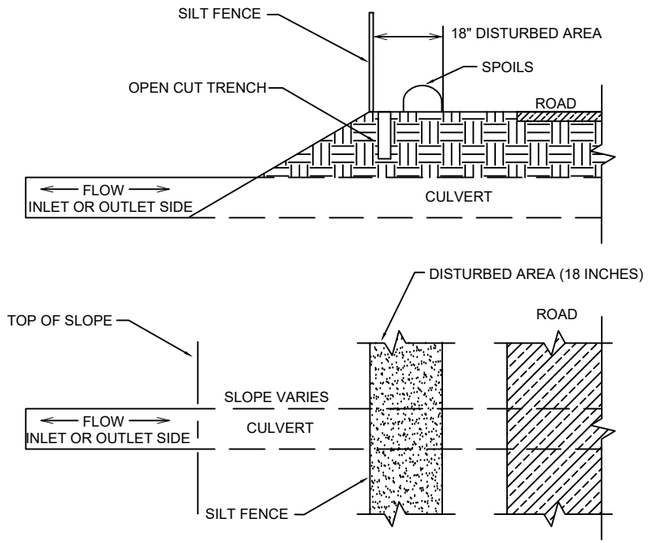
DESCRIPTION:	WEST BAKER CANAL
DRAWING NAME:	LE1_008_FDH_014 - LEHIGH ACRES_LEE COUNTY_FLORIDA - WEST BAKER CANAL
SHEET:	9 OF 12

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

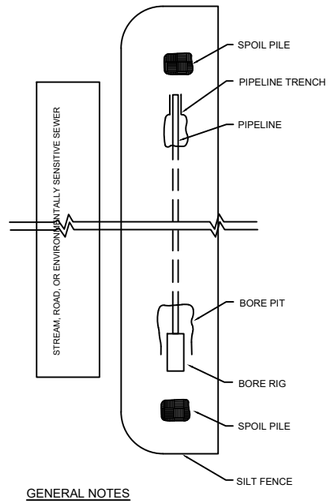
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

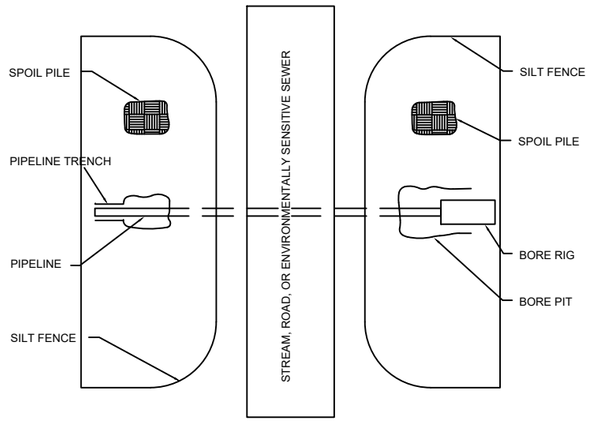


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

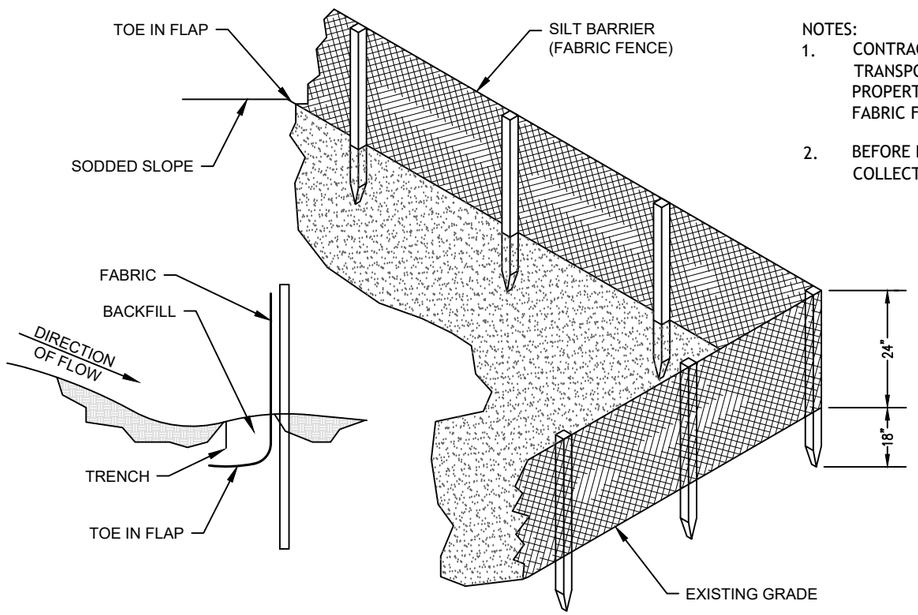
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

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SHEET TITLE: TYPICALS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_008_FDH_014
DESCRIPTION:	WEST BAKER CANAL
DRAWING NAME:	LE1_008_FDH_014 - LEHIGH ACRES_LEE COUNTY_FLORIDA - WEST BAKER CANAL
SHEET:	10 OF 12

TYPICALS

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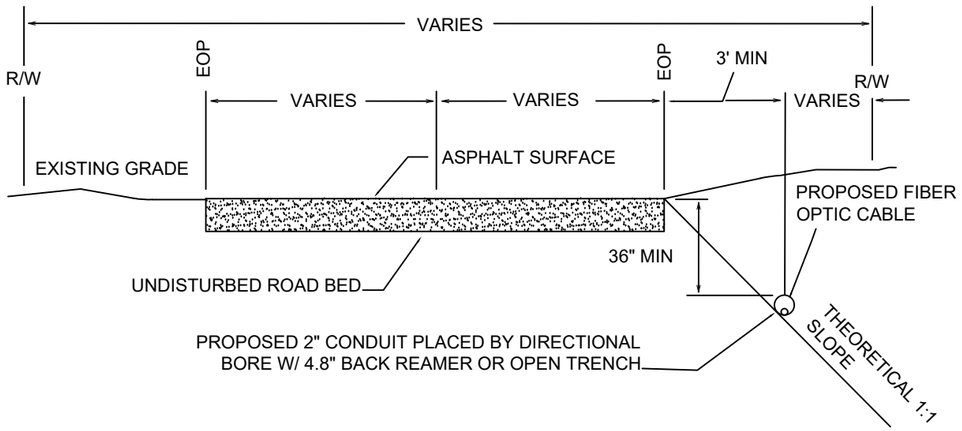
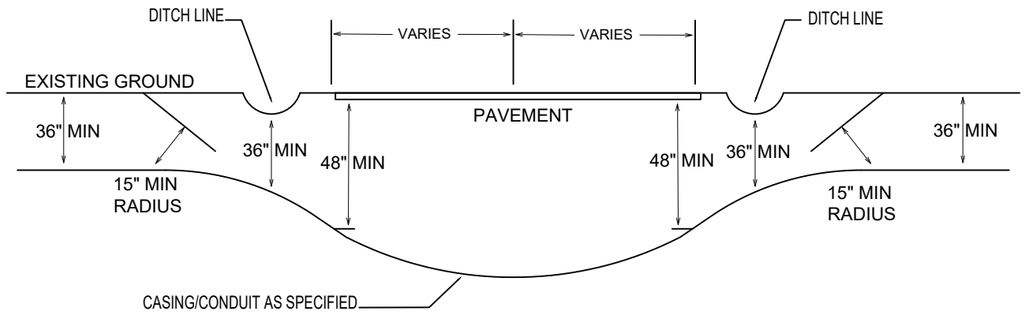
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



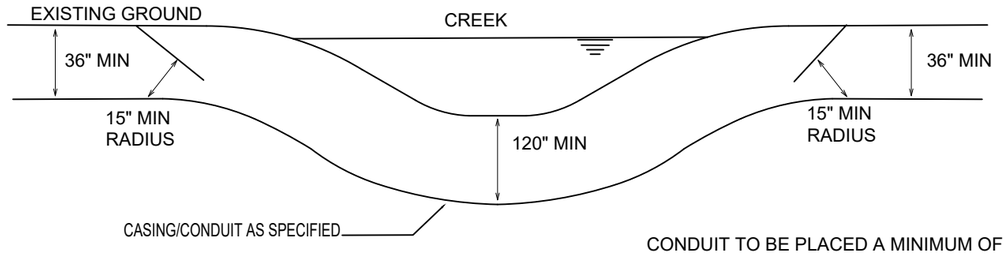
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

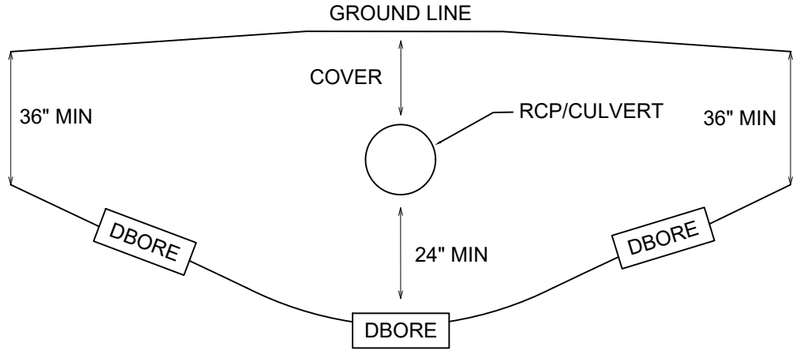
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 10 FEET BELOW CREEK BED

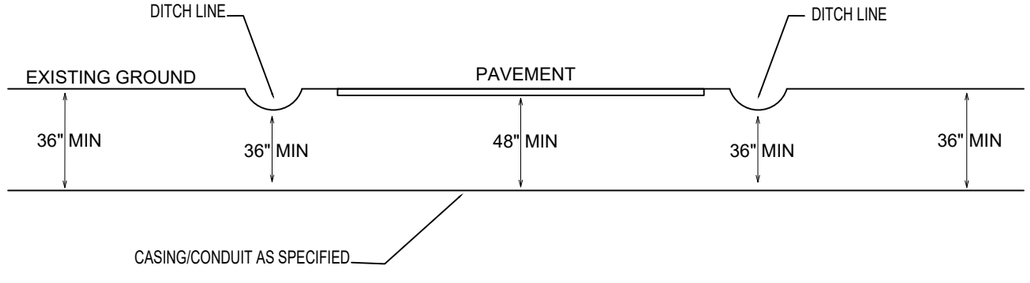
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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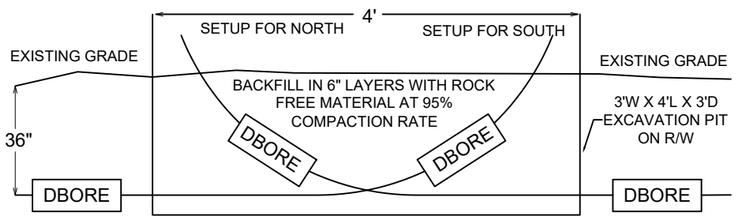
SHEET:	11 OF 12

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

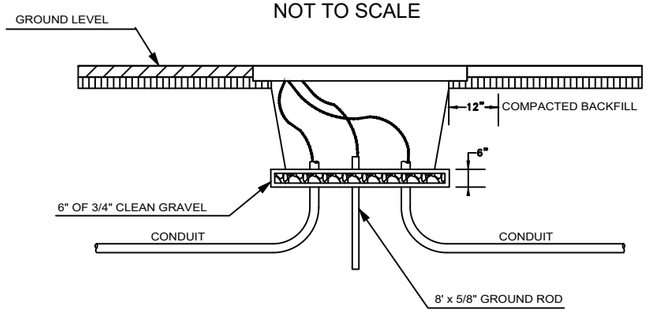


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

PULL BOX HANDHOLE

NOT TO SCALE



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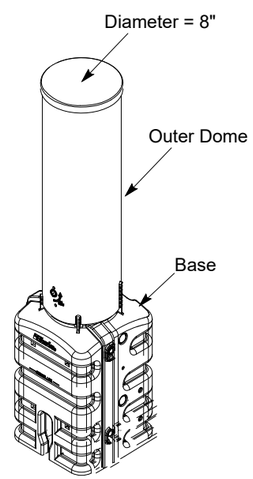
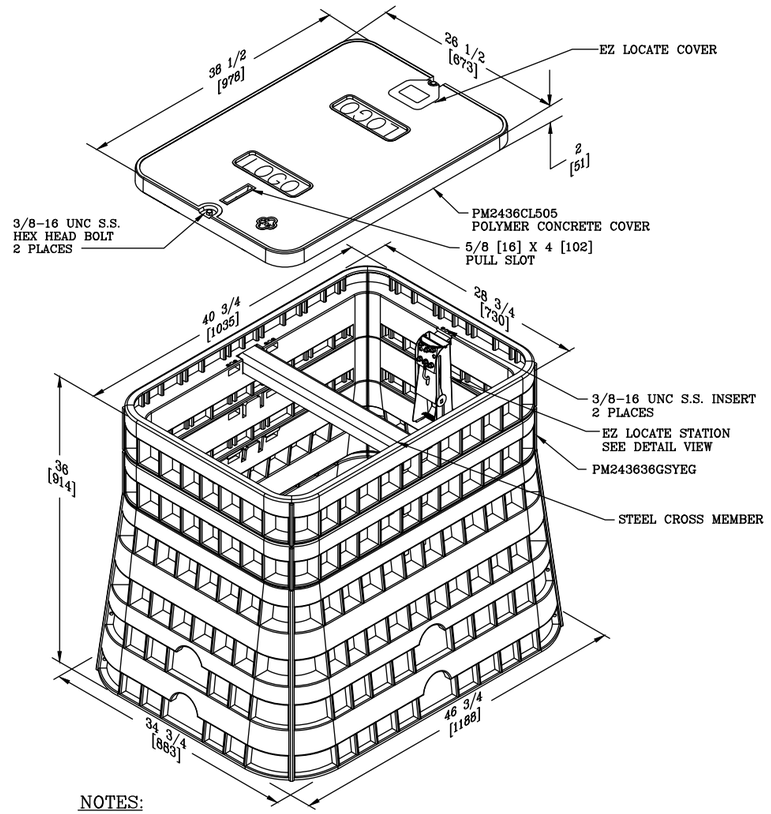
BDO204-EG

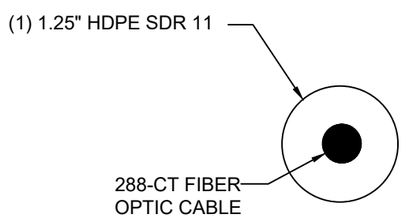




NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

PIPE DETAIL



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SHEET:	12 OF 12

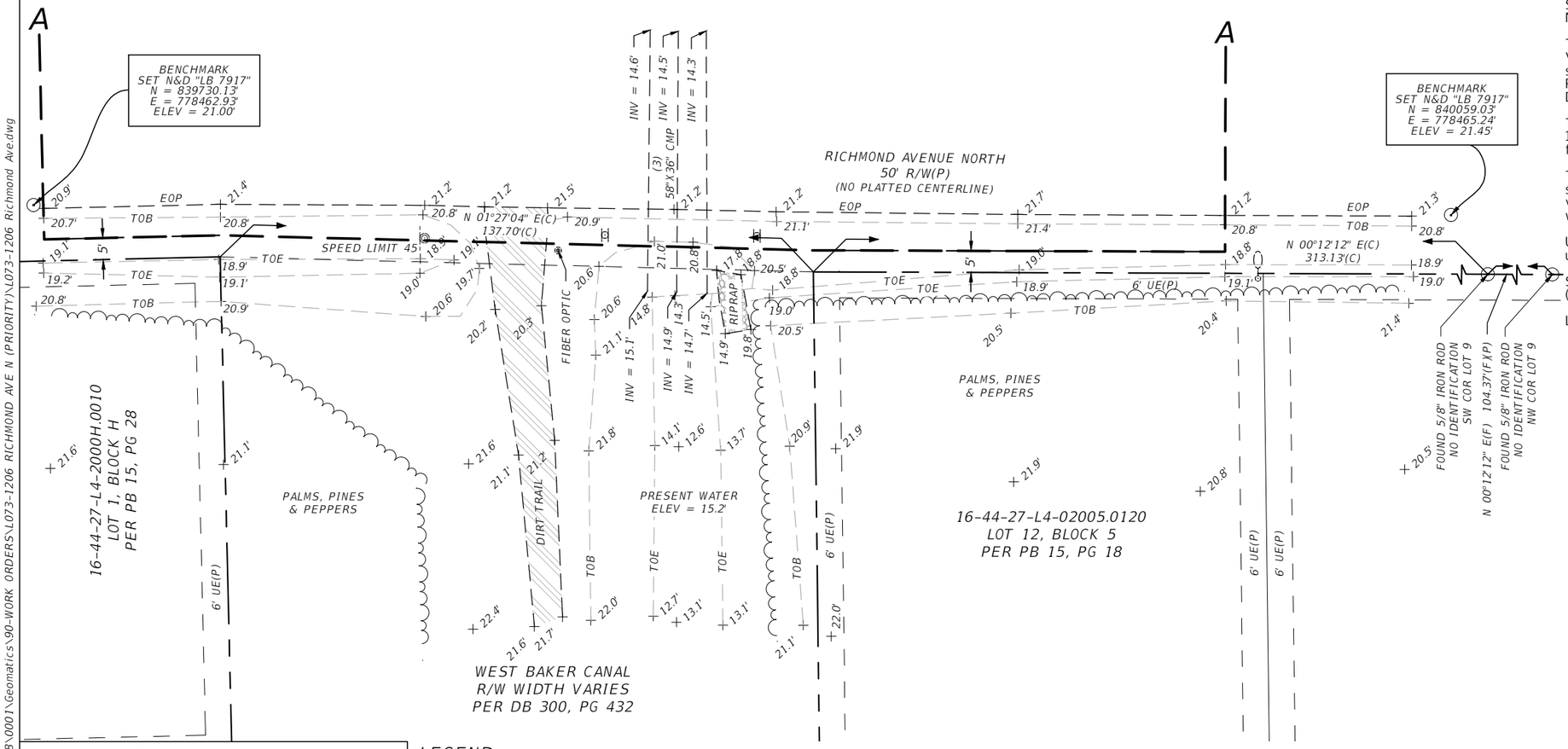
Topographic Survey of a Subject Project Site

lying within

Section 16, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



0 15' 30'
(1" = 30')
Graphic Scale

NOTES:

Survey based on the plat of Twelfth Street Park Blocks D-E-F-G-H-I-J-K & L as recorded in Plat Book 15 Page 25 and Plat of Section 16 TWP. 44S-RGE. 27E of Lehigh Acres as recorded in Plat Book 15 Page 18, Public Records of Lee County, Florida and existing monumentation.

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Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 01/08/2026

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

Taylor Henninge 2026.03.04 06:19:22-05'00'

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

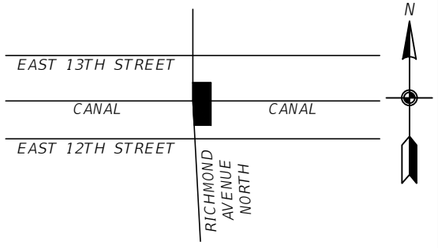
Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Location sketch
(Not to scale)



LEGEND:

(C)	= CALCULATED	INV	= INVERT ELEVATION
(F)	= FIELD MEASURED	N&D	= NAIL AND DISK
(P)	= PER PLAT	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
Δ	= DELTA ANGLE	OR	= OFFICIAL RECORDS BOOK
℄	= CENTER LINE	PB	= PLAT BOOK
CONC	= CONCRETE	PG	= PAGE
CMP	= CORRUGATED METAL PIPE	R/W	= RIGHT OF WAY
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DB	= DEED BOOK	RNG	= RANGE
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ELEV	= ELEVATION	SEC	= SECTION
EOP	= EDGE OF PAVEMENT	TOB	= TOP OF BANK
EXIST	= EXISTING	TOE	= TOE OF SLOPE
FIRC	= FOUND IRON ROD AND CAP	TWP	= TOWNSHIP
INST#	= INSTRUMENT NUMBER	(TYP)	= TYPICAL

⊙	= FOUND MONUMENT
OE	= OVERHEAD UTILITY LINE
+20.0'	= SPOT ELEVATION
	= WIRE PULL BOX
	= SINGLE SUPPORT SIGN
	= GUY ANCHOR
BACK FLOW	= BACK FLOW PREVENTOR
	= LIGHT POLE
	= UNDERGROUND UTILITY MARKER
	= DELINEATOR POST

Richmond Avenue, Lehigh Acres

TOPOGRAPHIC SURVEY-PLAN VIEW

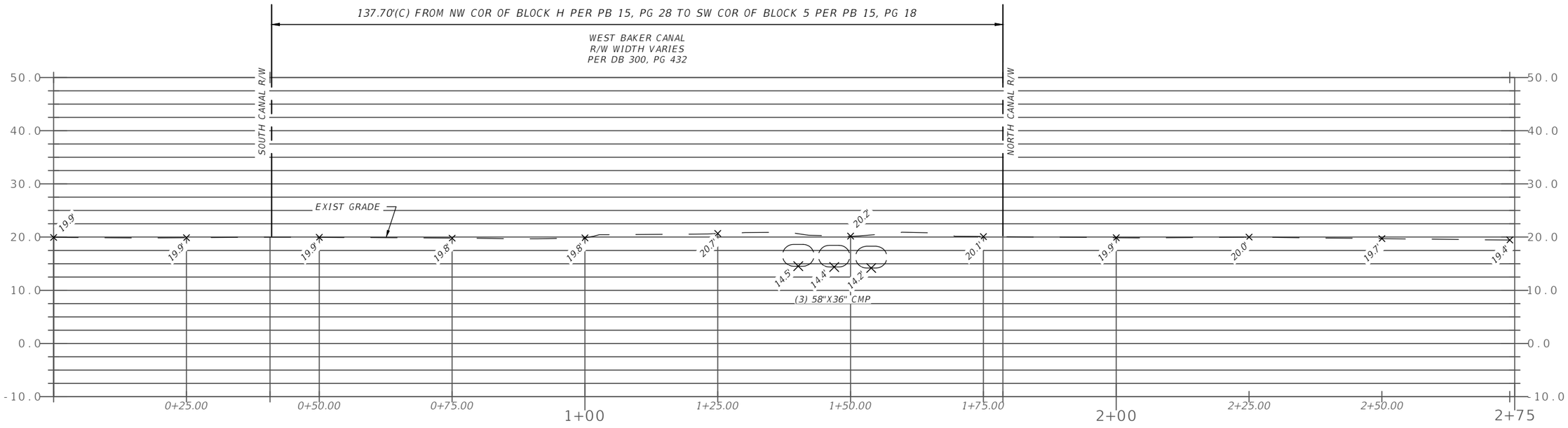
McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L073-1206 Richmond Ave.dwg	106981-4/16	106980001-L073

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/08/2026	BWL	TJH	01 OF 02

\\mckimcreed.com\nasuni\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L073-1206 RICHMOND AVE N (PRIORITY)\L073-1206 Richmond Ave.dwg

Topographic Survey of a
Subject Project Site
Section 16, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Richmond Avenue, Lehigh Acres

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\\mckimcreed.com\nasuni\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L073-1206 RICHMOND AVE N (PRIORITY)\L073-1206 Richmond Ave.dwg

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

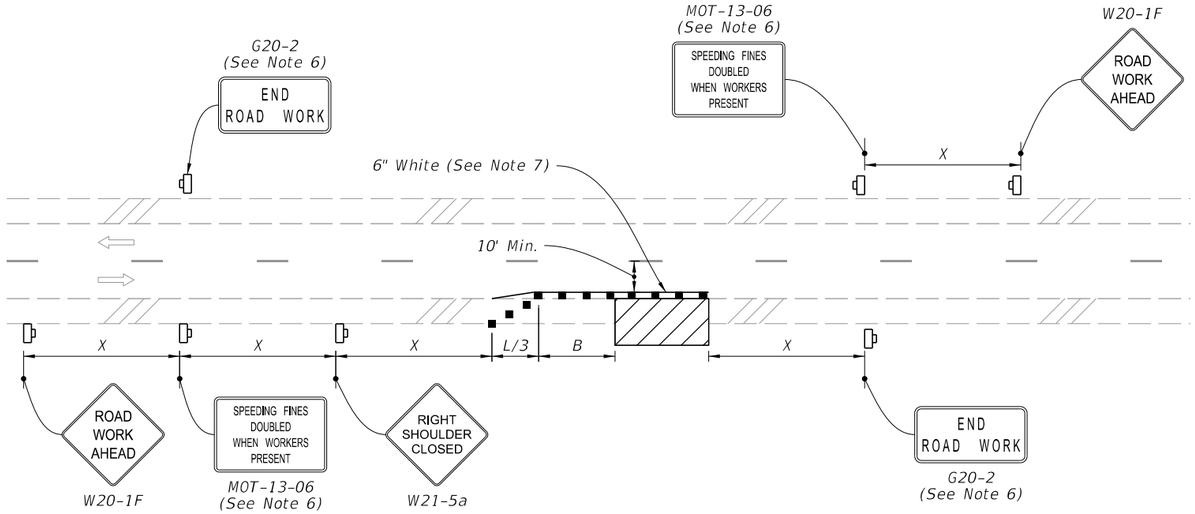
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

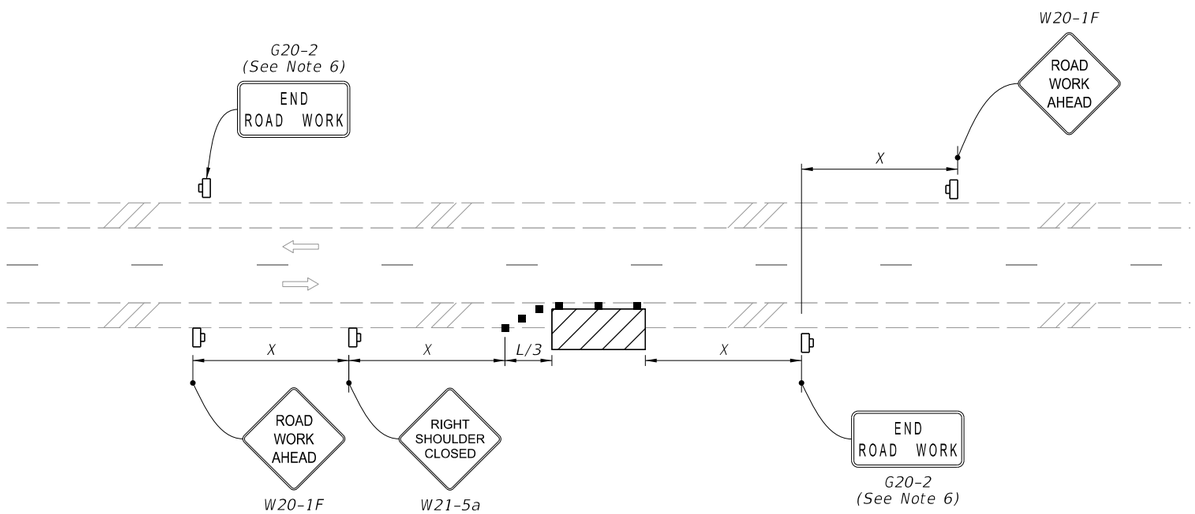
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



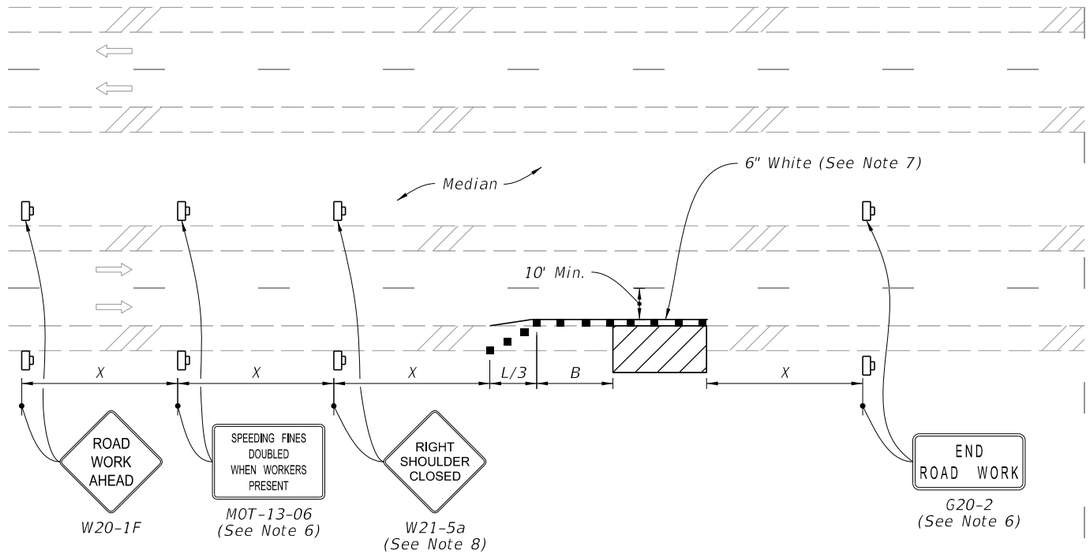
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



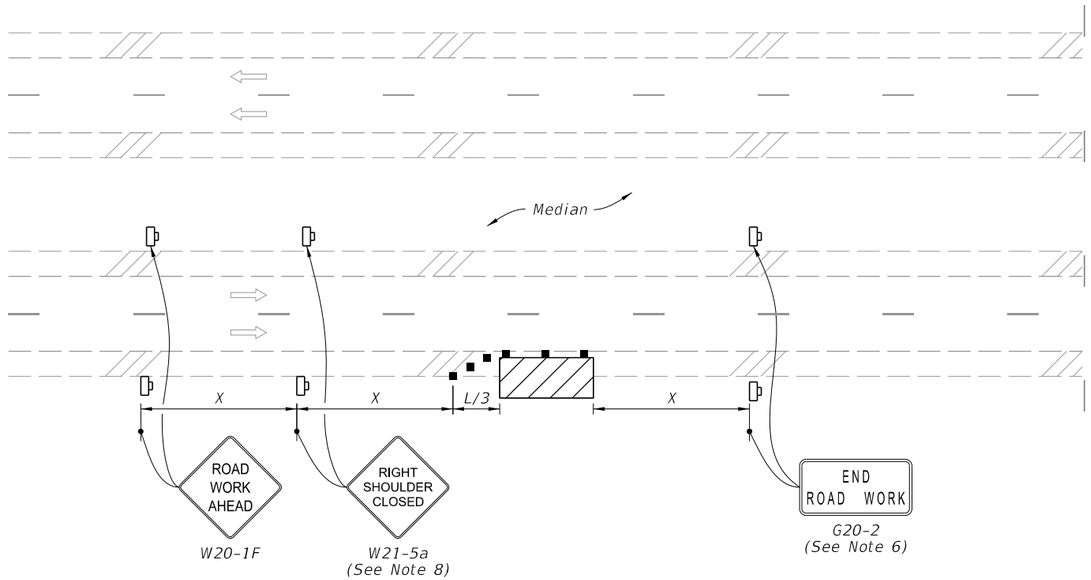
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FDOT FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

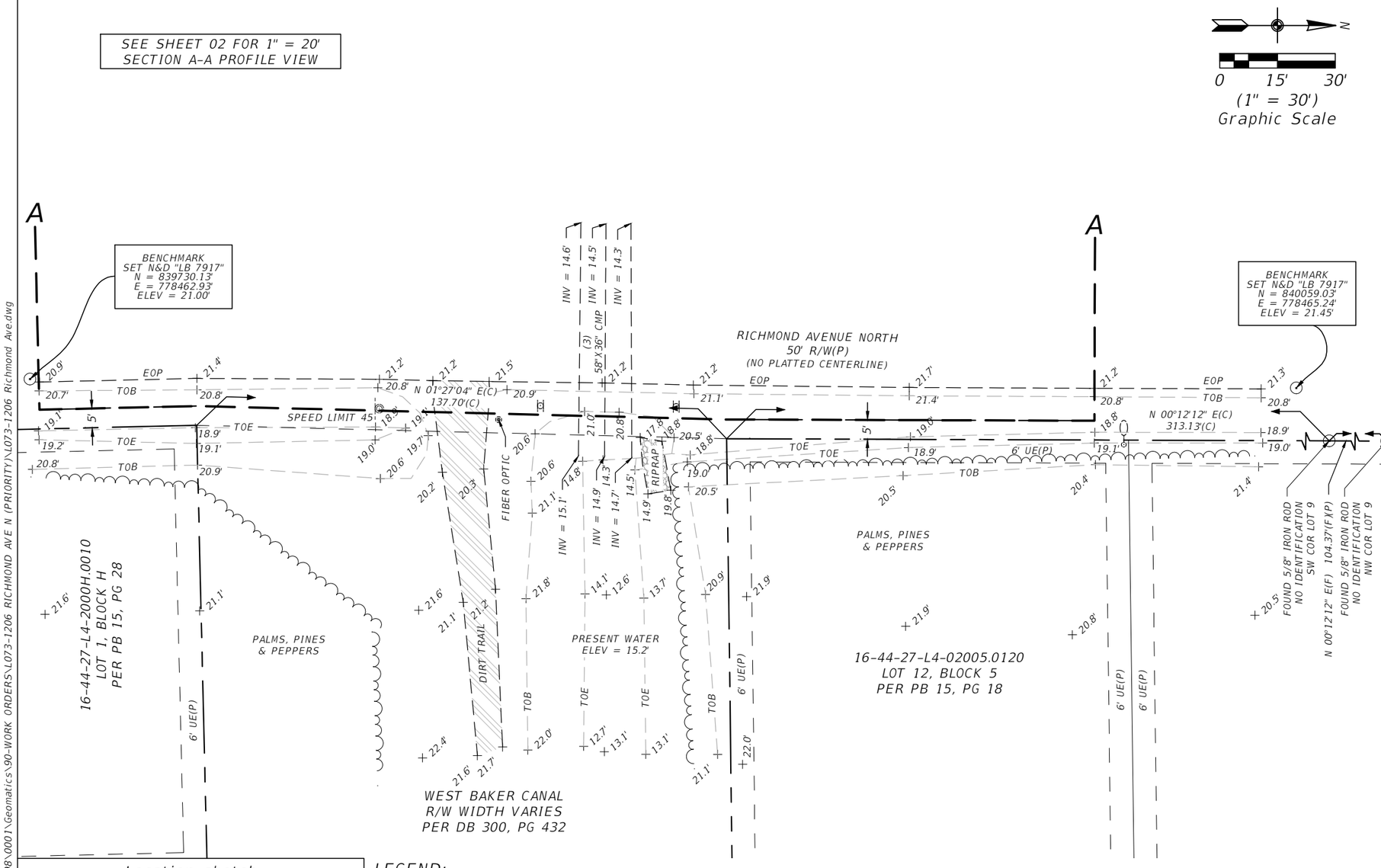
Topographic Survey of a Subject Project Site

lying within

Section 16, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



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Richmond Avenue, Lehigh Acres

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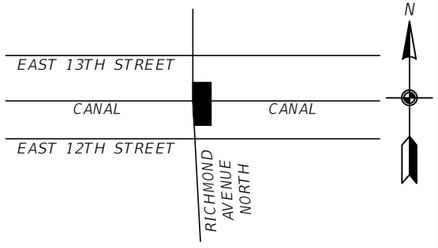

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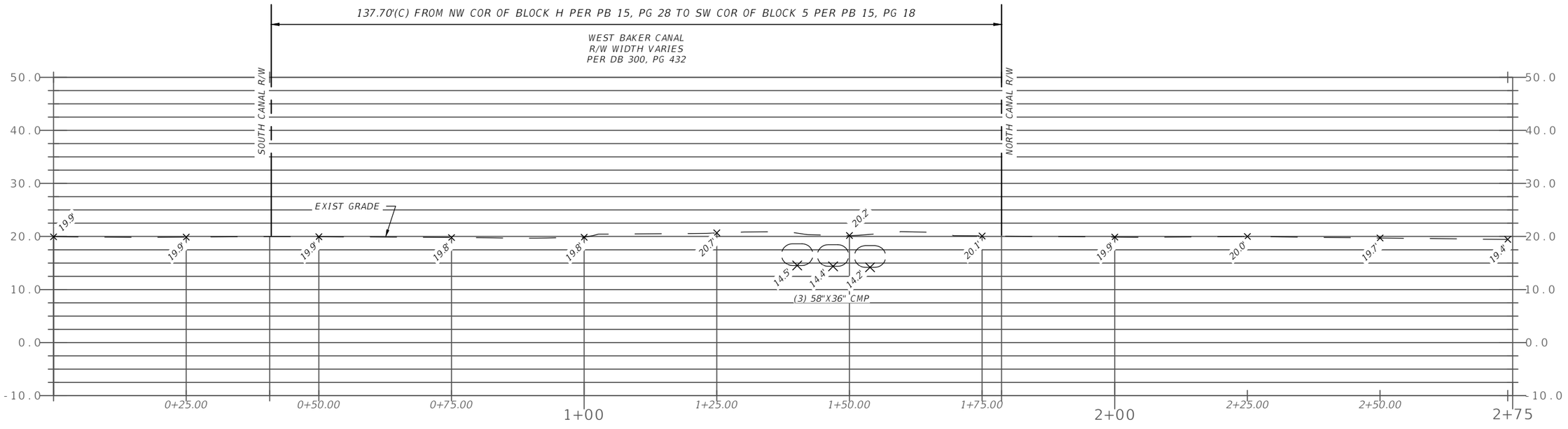

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1" = 20' HORIZONTAL
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Richmond Avenue, Lehigh Acres

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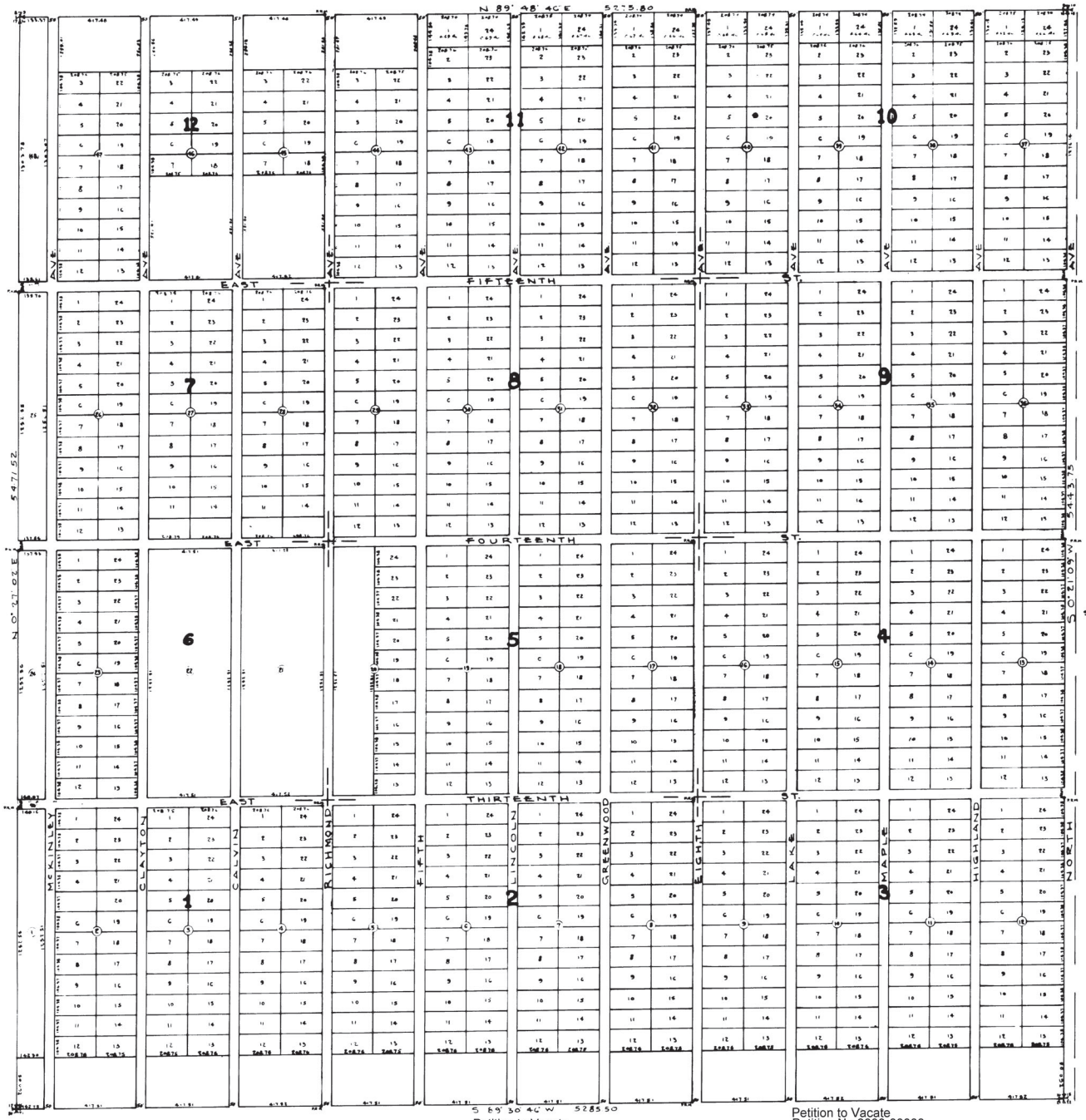
01/08/2026	BWL	TJH	02 OF 02

\\mckimcreed.com\nasuni\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L073-1206 RICHMOND AVE N (PRIORITY)\L073-1206 Richmond Ave.dwg

Petition to Vacate
Petition No:2000-00063
Description:12ft wide PUE; See CCMB
Date of Approval:02/13/01
Resolution No:01-02-32
CCMB:2001 Page:99
Recorded on:03/15 OR Book:3377
Page:0413-0416

Petition to Vacate
Petition No:2002-00042
Description:12ft drainage & public utility easement;
See CCMB
Date of Approval:11/26/02
Resolution No:02-11-66
CCMB:2002R Page:788

PLAT BOOK 15, PAGE 18



Petition to Vacate
Petition No:99-00016
Description:See CCMB
Date of Approval:11/23/99
Resolution No:99-11-30
CCMB:1999R Page:666
Recorded on:12/06/99 OR Book:3195
Page:3681-3684

Petition to Vacate
Petition No:90-19
Description:12ft
Date of Approval:06/20/90
Resolution No:90-06-30
CCMB:207 Page:2507

PLAT OF SECTION 16

TWP. 44 S. RGE 27 E

A SUBDIVISION OF

"LEHIGH ACRES"

LEE COUNTY, FLA.

LEE COUNTY LAND & TITLE CO. DEVELOPERS

SCALE 0 100 200 300 400

JAN. 27, 1956

UNIT BOUNDARY

CERTIFICATE OF SURVEY

I THE UNDERSIGNED HEREBY CERTIFY THAT THE PLAT AS SHOWN IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND THAT PERMANENT REFERENCE MONUMENTS HAVE BEEN PLACED AS SHOWN.

Earl A. Ryer, Tice Fla.
FLORIDA REG'D LAND SURVEYOR NO. 675
ENGINEER NO. 680

NOTE
ALL LOTS SUBJECT TO A 6D UTILITY EASEMENT ON ALL SIDES OF LOT. INTERIOR PINS ARE 4/8 REBAR CONCRETE.
SECTION COR. PINS ARE 6"x6"x24" CONCRETE.
ALL LOTS EQUAL 1/2 ACRE EXCEPT WORLD MAYED.

NOTE:
DIMENSIONS, BEARINGS, LOT AND LAND LINES ON DRAWING OF LATEST DATE SHALL GOVERN.

Petition to Vacate
Petition No:2001-00004
Description:12ft wide PUE; See CCMB
Date of Approval:4/10/01
Resolution No:01-04-34
CCMB:2001R Page:240
Recorded on:4/19/01 OR Book:3397 Page:4382-4385

Petition to Vacate
Petition No:95-12-153.04R
Description:12ft wide public utility easements;
See CCMB
Date of Approval:02/21/96
Resolution No:96-02-26
CCMB:1996R Page:121
Recorded on:03/18/96 OR Book:2686 Page:1086-1090

Petition to Vacate
Petition No:2000-00008
Description:12ft wide utility easement; See CCMB
Date of Approval:04/25/00
Resolution No:00-04-19
CCMB:2000R Page:236
Recorded on:5/02/00 OR Book:3249
Page:4440-4443

PLAT OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

LEE COUNTY LAND AND TITLE COMPANY

DEVELOPERS

ACKNOWLEDGEMENTS

KNOW ALL MEN BY THESE PRESENTS, THAT LEE COUNTY LAND AND TITLE COMPANY, A CORPORATION UNDER THE LAWS OF FLORIDA, BEING THE OWNER OF THE LAND DESCRIBED IN THE CAPTION HEREON HAS CAUSED THIS PLAT OF LEHIGH ACRES TO BE MADE AND DO HEREBY DEDICATE TO THE PERPETUAL USE OF THE PUBLIC STREETS, ROADS, DRIVES AND/OR LANES SHOWN HEREON AND ALL CANAL RIGHT OF WAYS SHALL BE DEDICATED TO THE EAST COUNTY WATER CONTROL DISTRICT.

IN WITNESS WHEREOF GERALD H. GOULD AND EDWARD SHAPIRO, RESPECTIVELY PRESIDENT AND SECRETARY OF LEE COUNTY LAND AND TITLE COMPANY, BY AND WITH AUTHORITY OF IT'S BOARD OF DIRECTORS HAVE EXECUTED THESE PRESENTS FOR AND ON BEHALF OF SAID CORPORATION AND CAUSED IT'S CORPORATE SEAL TO BE AFFIXED THIS 10th DAY OF April A.D. 1961

LEE COUNTY LAND AND TITLE CO.

BY Gerald H. Gould
President

ATTEST Edward Shapiro
Secretary

STATE OF FLORIDA
COUNTY OF LEE

I HEREBY CERTIFY THAT ON THIS DAY, BEFORE ME AN OFFICER DULY AUTHORIZED TO TAKE ACKNOWLEDGEMENTS, PERSONALLY APPEARED GERALD H. GOULD AND EDWARD SHAPIRO, RESPECTIVELY PRESIDENT AND SECRETARY OF LEE COUNTY LAND AND TITLE COMPANY, TO ME KNOWN TO BE THE PERSONS DESCRIBED IN AND WHO EXECUTED THE FOREGOING DEDICATION AS PRESIDENT AND SECRETARY RESPECTIVELY OF LEE COUNTY LAND AND TITLE COMPANY FOR THE PURPOSES THEREIN SET FORTH.

WITNESS MY HAND AND OFFICIAL SEAL AT FORT MYERS, SAID COUNTY AND STATE THIS 10th DAY OF April A.D 1961

Susan Wheeler
NOTARY PUBLIC STATE OF FLORIDA AT LARGE
My Commission Expires July 19, 1964

APPROVALS

THIS PLAT APPROVED THIS 12 DAY OF April A.D. 1961 IN OPEN MEETING OF THE BOARD OF COUNTY COMMISSIONERS OF LEE COUNTY, FLORIDA.

APPROVED Gloyd S. Hunter
Chairman

D. J. Farabee
Clerk

County Attorney

Stacey Bruce
County Road Superintendent

260795

I HEREBY CERTIFY THAT THIS PLAT OF LEHIGH ACRES, HAS BEEN EXAMINED BY ME AND FROM MY EXAMINATION I FIND THAT SAID PLAT COMPLIES IN FORM WITH THE REQUIREMENTS OF SURVEY LAWS OF FLORIDA.

I FURTHER CERTIFY THAT SAID PLAT WAS FILED FOR RECORD AT FORT MYERS THIS 13 DAY OF April A.D. 1961, AND DULY RECORDED IN PLAT BOOK 15 ON PAGES 1-101 OF PUBLIC RECORDS OF LEE COUNTY, FLORIDA.

D. J. Farabee
Clerk Of The Circuit Court In And For Lee County

SURVEYORS CERTIFICATE

I THE UNDERSIGNED CERTIFY THAT THE PLAT AS SHOWN IS A CORRECT REPRESENTATION OF THE LANDS PLATTED.

R. V. Jamme

PLAT OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

LEE COUNTY LAND AND TITLE COMPANY

DEVELOPERS

DESCRIPTION

TOWNSHIP 43 SOUTH, RANGE 27 EAST

The Southeast 1/4 of Section 36

TOWNSHIP 44 SOUTH, RANGE 27 EAST

The South 1/2 and the North 1/2 of the North 1/2 of Section 1; the East 1/2 and the East 1/2 of the Northwest 1/4 and the Southwest 1/4 of the Northwest 1/4 of Section 2; the South 1/2 of Section 7, 8 and 9; all of Sections 11 through 21 inclusively and all of Sections 23 through 28 inclusively; all of Section 29 except that part lying South of the South Right of Way of Able Canal; all of Sections 35 and 36 inclusively; all of Section 32 except the following: Units 1, 2 and 3 of Section 32 as recorded on pages 124, 125 and 126 of Plat Book 9. Units 4, 5, 7, 10, 11 and 18 of Section 32 as recorded on Pages 50 through 55 inclusively of Plat Book 12. Unit 20 of Section 32 as recorded on Pages 86 through 89 inclusively of Plat Book 10. Part of Unit 3 as recorded on Page 23 of Plat Book 12. Addition to Unit 20 as recorded on Pages 36 and 37 of Plat Book 13 all of the Public Records of Lee County, and all of section 33 except the following: Units 4 and 10 of Section 33 as recorded on Page 52 of Plat Book 12. Unit 5 of Section 33 as recorded on Page 29 of Plat Book 12. Bear Lake Subdivision as recorded on Pages 38 and 39 of Plat Book 13. Replat of Lots 1 through 6, Block 4e, Section 33, Township 44 South, Range 27 East as recorded on Page 84 of Plat Book 12 all of the Public Records of Lee County and that part of Section 34 described as Follows; Beginning at the Northwest Corner of Section 34, Township 44 South, Range 27 East go North 89°-12'-26" East, 1919.76 feet; thence South 00° 06'-48" East, 1468.91 feet; thence South 89°-12'-26" West, 1919.76 feet; thence North 00°-06'-48" West, 1468.91 feet to the Point of beginning; and that part of section 34, Twp. 44 S., Rge 27 E., described as follows: commencing at the Southwest corner of Section 34; thence North 00°-06'-48" West along the West line of said Section 1403.40 feet to the Northerly right of way line of Joel Boulevard; thence North 88°-58'-52" East along said Northerly right of way 15.80 feet to the P.C. of a curve; thence Northeasterly on a tangential curve to the left, with a radius of 676.18 feet, a distance of 400.21 feet, to the P.T. of said curve, thence North 55°-05'-58" East, continuing along said Northerly right of way of Joel Boulevard, 1012.50 feet to the Southwesterly right of way of David Avenue, said point also being the actual point of beginning of the tract of land to be described; thence North 34°-54'-02" West along said southwesterly right of way line 1610 feet; thence North 55°-05'-58" East, a distance of 200 feet; thence South 34°-54'-02" East, a distance of 90 feet; thence North 55°-05'-58" East, a distance of 175 feet; thence North 87° 55'-40" East, a distance of 184.45 feet; thence South 34°-54'-02" East, a distance of 185 feet; thence South 55°-05'-58" West, a distance of 280 feet; thence South 34°-54'-02" East, a distance of 375 feet; thence South 55°-05'-58" West, a distance of 200 feet; thence South 34°-54'-02" East, a distance of 860 feet; thence South 55°-05'-58" West, a distance of 50 feet, to the actual Point of Beginning; and all of Section 22 lying West of the West right of way line of Gerald Avenue as shown on the Plat of a Subdivision of Part of Lehigh Acres recorded on Pages 50 through 55 inclusively of Plat Book 12 of the Public Records of Lee County, Florida.

TOWNSHIP 44 SOUTH, RANGE 26 EAST

All of Sections 1, 2, 11, 12, 13, 23, 24, 26, 27, 32, 33, 34, 35, and 36; and the South 1/2 of Sections 29 and 30; and the South 100 feet of the North 1/2 of Section 30; and the East 1/2 of Section 14; the South 1/2, and that part of the North 1/2 of Section 28, lying East of Buckingham Road; all of Block E, Lot 1, Block 38 of Buckingham Park, south section as recorded in Plat Book 9, Page 99 of the Public Records of Lee County, Florida, and all that part of Section 22 lying South and West of the southerly right of way of Homestead Road, except Lots 1 through 7 inclusively, Block 37 of Buckingham Park south section as recorded in Plat Book 9, Page 99 of the Public Records of Lee County, Florida; and that part of Section 31, lying North of the Northerly right of way of State Road 82; and all of Section 25 except Units 3 and 6 and Units 11 and 12 as recorded in Plat Book 13, Pages 21, 22 and 23 of the Public Records of Lee County, Florida.

TOWNSHIP 45 SOUTH, RANGE 26 EAST

All of Sections 1, 2, 3 and 12, all of that part of sections 4, 5, 6, 9, 10, 11, 13 and 14 lying North of the Northerly right of way of State Road 82.

PART IV #26-75

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ Approved ___ Denied ___

District Manager: _____ Date: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under W. Baker Canal (47-16-2) at 1206 Richmond Ave. N., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Fox Canal (47-8-2), along the west side of Palmetto Ave., between Prudential Loop & W. 18th St., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-76

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-76 is approved according to the plans submitted April 30th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 69' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Palmetto Ave.

04 - 30 - 26

26 - 76

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: WILLIAM KIEFER **PHONE #:** (515) 306 - 3403

PROJECT NAME: LE1_003_FDH_012 900 W 18TH ST - FOX CANAL

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 900 W 18TH ST					
Mailing Address:	N/A				
City:	LEHIGH ACRES	**State:**	FLORIDA	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary*):

0	8	-	4	4	-	2	7	-	L	4	-	0	6	0	2	6	-	0	0	2	B
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				

Brief description of proposed project:

Application for: DIRECTIONAL BORE 2x1.25" HDPE SDR 11 CONDUIT 69' IN THE LAMSID ROW OF WEST FOX CANAL (47-8-2) ALONG PALMETTO AVE

RECEIVED
APR 30 2026
LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$1785.00 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	LUMOS FIBER OF FLORIDA, LLC						
Mailing Address:	**Street:**	4100 MENDENHALL OAKS PKWY, SUITE 300					
City:	HIGH POINT	**State:**	NORTH CAROLINA		**Zip:**	27265	
Phone No.	**Area Code:**	515	**Number:**	306 - 3403	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	WILLIAM.KIEFER@LUMOSFIBER.COM						

B. Relationship of applicant to property*:

Owner* ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee*** ☐

Contract Purchaser* ☐ **Other (indicate)*** ☑ UTILITY

C.

Name of Developer:	MILENIUM DIRECTIONAL DRILLING, INC						
Mailing Address:	**Street:**	5395 COGSWELL DR					
	WAYNE	**State:**	MI		**Zip:**	48184	
	Area Code:	(313)	**Number:**	326 - 2333	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	FELECAND@MILENIUMBORS.COM						

D.

Name of Authorized Agent(s):	CENTILLION SOLUTIONS						
Mailing Address:	**Street:**	6030 BETHELVIEW RD, SUITE 301					
City:	CUMMING	**State:**	GEORGIA		**Zip:**	30040	
Phone No.	**Area Code:**	(480)	**Number:**	442 - 0562	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	KYLE.PARKEY@CENTILLIONSOLUTIONS.COM						

E.

Name of Property owner:	N/A						
Mailing Address:	**Street:**						
City:		**State:**			**Zip:**		
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

		-			-			-			-					-				

PRIMARY STRAP NUMBER:

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

WILLIAM KIEFER
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 28th day of April (m), 2026 (y), by William Kiefer who is personally know to me ~~or has~~ produced ~~_____ as identification~~.

ANDREW P. STEVENSON
Notary Public, North Carolina
Guilford County
My Commission Expires
November 06, 2026

Andrew P. Stevenson
SIGNATURE OF NOTARY PUBLIC

Andrew P. Stevenson
PRINTED NAME OF NOTARY PUBL

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

ENGINEER

Name:	MCKIM & CREED						
Mailing Address:	5701 DIVISION DR, STE A						
City:	FORT MYERS	**State:**		FLORIDA		**Zip:**	33905
Business No.	**Area Code:**	(239)	**Number:**	980 - 3384		**Ext.**	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	BLAIR CONSULTING SERVICES, INC						
Mailing Address:	1428 SUNBLUSH LN						
City:	LAS VEGAS	**State:**		NV		**Zip:**	89117
Business No.	**Area Code:**	(813)	**Number:**	579 - 0128		**Ext.**	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
NA	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
NA	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
NA	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/12/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-76	Lumos Bore under Fox Canal (47-8-2) At Palmetto Ave.	Total Fee $1,785.00 Due From Deposit
	Permit Fee: $750 + $15 x 69' R/w = $750 + $1035	
	Total Fee = $1,785.00	
		TOTAL $1,785.00

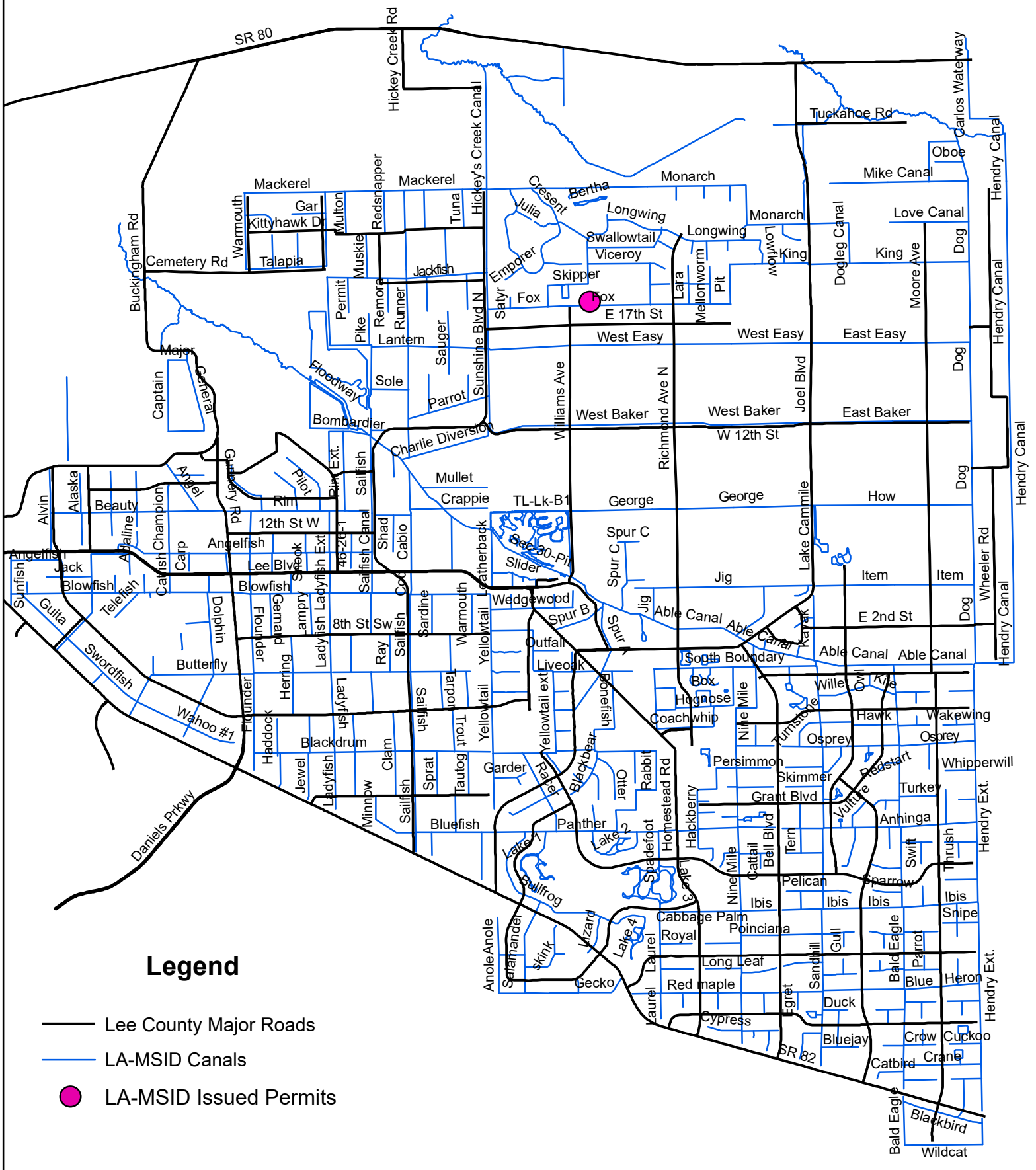
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/12/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit # 's, amounts, and signs Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry**.

*The CR account will need to be changed based on the customer. See accounting to setup new customer deposit accounts

Permit # 2026-76



LE1_003_FDH_012 - LEHIGH ACRES_LEE COUNTY_FLORIDA - FOX CANAL

900 W 18TH ST, LEHIGH ACRES, FL 33972 (26.665196, -81.643754)

PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 269' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 48-CT FIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
1	COVER SHEET	7	PROFILE VIEW
2	SOW AND CONTACTS	8 - 9	IMAGES
3	LEGEND	10 - 12	TYPICALS
4 - 5	GENERAL NOTES		
6	PROJECT SHEETS		

PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

Blair Consulting Services, INC
1428 Sunblush Ln, Las Vegas, NV 89117
Fabio Perassi - Project Manager
fsperassi@gmail.com

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
----	----	----	----
----	----	----	----

SHEET TITLE:	COVER SHEET
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_003_FDH_012
DESCRIPTION:	FOX CANAL
DRAWING NAME:	LE1_003_FDH_012 - LEHIGH ACRES_LEE COUNTY_FLORIDA - FOX CANAL
SHEET:	1 OF 12

SCOPE OF WORK

- BURIED PLACEMENT OF 269' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 48-CT MICROFIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
William Kiefer - OSP Project Engineer
William.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

ENGINEERING COMPANY

Blair Consulting Services, INC
1428 Sunblush Ln,
Las Vegas, NV 89117

PROJECT MANAGER
Fabio Perassi
813-579-0128
fsperassi@gmail.com

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

LEE COUNTY ELECTRIC CO-OP
TOM BAILEY
(239) 656-2414

LUMOS FIBER OF FLORIDA, LLC
MARLON BROWN - SR DIRECTOR
MARLON.BROWN@LUMOSFIBER.COM
(540) 278-0304

FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:
SOW & CONTACTS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_003_FDH_012
DESCRIPTION:	FOX CANAL
DRAWING NAME:	LE1_003_FDH_012 - LEHIGH ACRES_LEE COUNTY_FLORIDA - FOX CANAL
SHEET:	2 OF 12

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F	
	IN: 0
	OUT: 0

SEQUENTIAL CALLOUT

#F	
	IN: 0
	TAIL: 0

SEQUENTIAL IN TAIL CALLOUT

#F	
	TAIL: 0
	OUT: 0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

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SHEET TITLE: LEGEND

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_003_FDH_012
DESCRIPTION:	FOX CANAL
DRAWING NAME:	LE1_003_FDH_012 - LEHIGH ACRES_LEE COUNTY_FLORIDA - FOX CANAL
SHEET:	3 OF 12

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

PERMITTING AGENCY

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LAS VEGAS, NV 89117

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SHEET TITLE: GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_003_FDH_012
DESCRIPTION:	FOX CANAL
DRAWING NAME:	LE1_003_FDH_012 - LEHIGH ACRES_LEE COUNTY_FLORIDA - FOX CANAL
SHEET:	4 OF 12

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

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SHEET:	5 OF 12

PROPOSED BORE
PIT 02+69

PROPOSED UTILITY
MARKER 01+69

PROPOSED UTILITY
MARKER 01+00

PROPOSED BORE
PIT 00+00

DIRECTIONAL BORE:
- (2) 1.25" HDPE SDR 11 CONDUIT
- 269'
- MINIMUM DEPTH = 218.4" STA– 01+00 TO 01+69

FOX CANAL
47-8-2

FOX CANAL
47-8-2

PALMETTO AVE

W 18TH ST

01+44

69.11'

1' 11' 15' 20' 45' 9' 6' 1' 4' 6' 50' 6'

ESMT R/W EOP

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LAS VEGAS, NV 89117

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0 10' 20' 30' 40'
SCALE: 1"=40'

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PROJECT SHEET

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PROJECT ENGINEER:	BEN PHILLIPS
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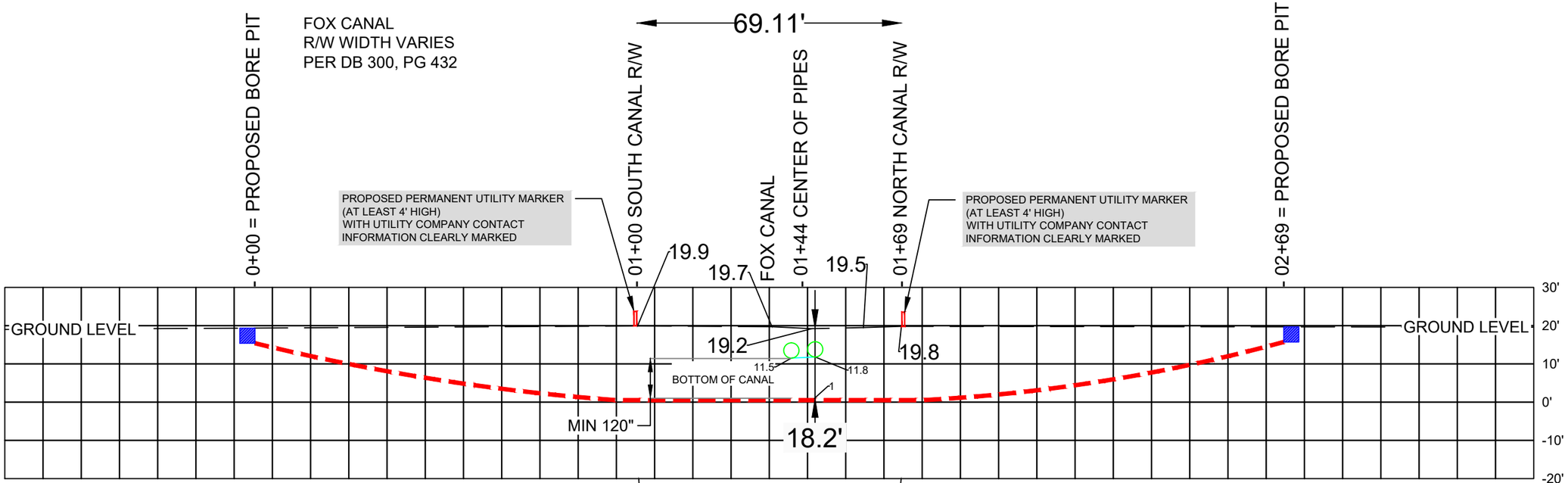
DESCRIPTION:	FOX CANAL
DRAWING NAME:	LE1_003_FDH_012 - LEHIGH ACRES_LEE COUNTY_FLORIDA - FOX CANAL
SHEET:	6 OF 12

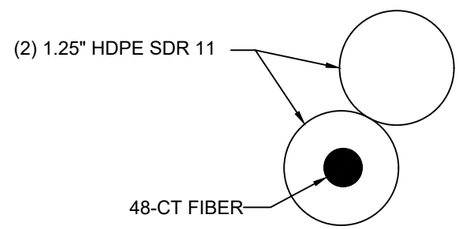
SUB-GRADE VERTICAL PROFILE VIEW
PALMETTO AVE
LOOKING WEST



UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

PIPE DETAIL



PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

0 10' 20' 30'
SCALE: 1"=30'

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:
PROFILE VIEW

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_003_FDH_012
DESCRIPTION:	FOX CANAL
DRAWING NAME:	LE1_003_FDH_012 - LEHIGH ACRES_LEE COUNTY_FLORIDA - FOX CANAL
SHEET:	7 OF 12

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SHEET TITLE: IMAGES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_003_FDH_012
DESCRIPTION:	FOX CANAL
DRAWING NAME:	LE1_003_FDH_012 - LEHIGH ACRES_LEE COUNTY_FLORIDA - FOX CANAL
SHEET:	8 OF 12

STREET LEVEL VIEW
STA 01+69
FACING SOUTH

04/07/2026 11:17AM
26.665276, -81.643737
2000 PRUDENTIAL LOOP
LEHIGH ACRES, FL 33972

PERMITTING AGENCY
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LAS VEGAS, NV 89117

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SHEET TITLE: IMAGES

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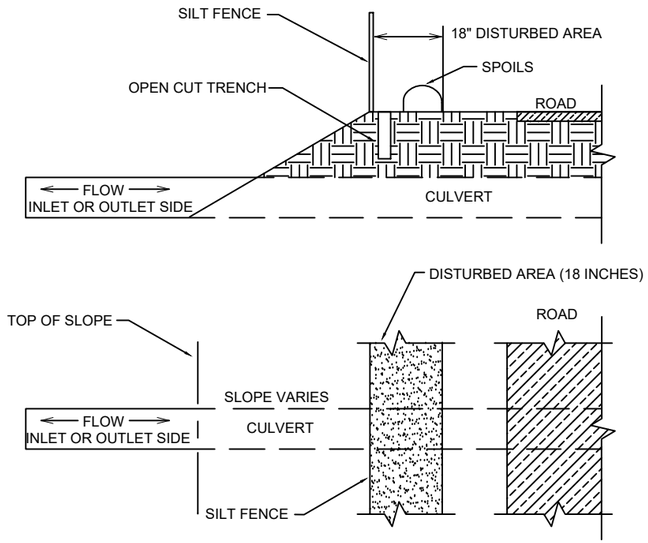
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_003_FDH_012
DESCRIPTION:	FOX CANAL
DRAWING NAME:	LE1_003_FDH_012 - LEHIGH ACRES_LEE COUNTY_FLORIDA - FOX CANAL
SHEET:	9 OF 12

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

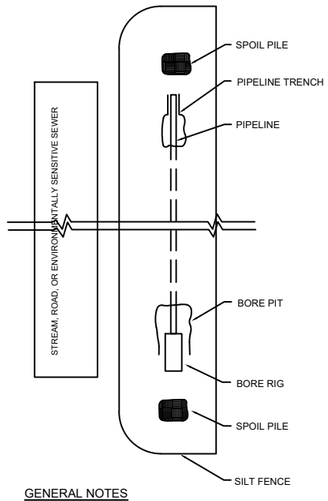
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

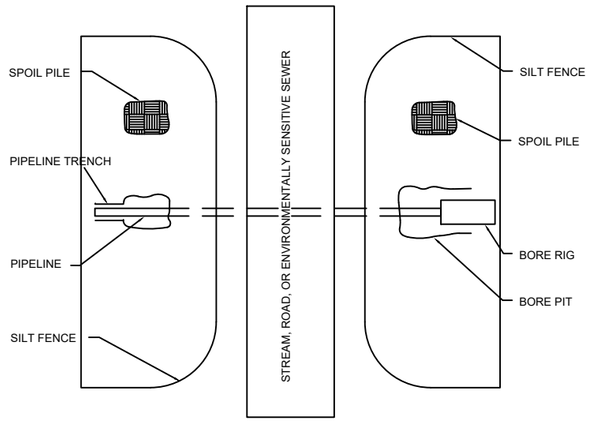


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

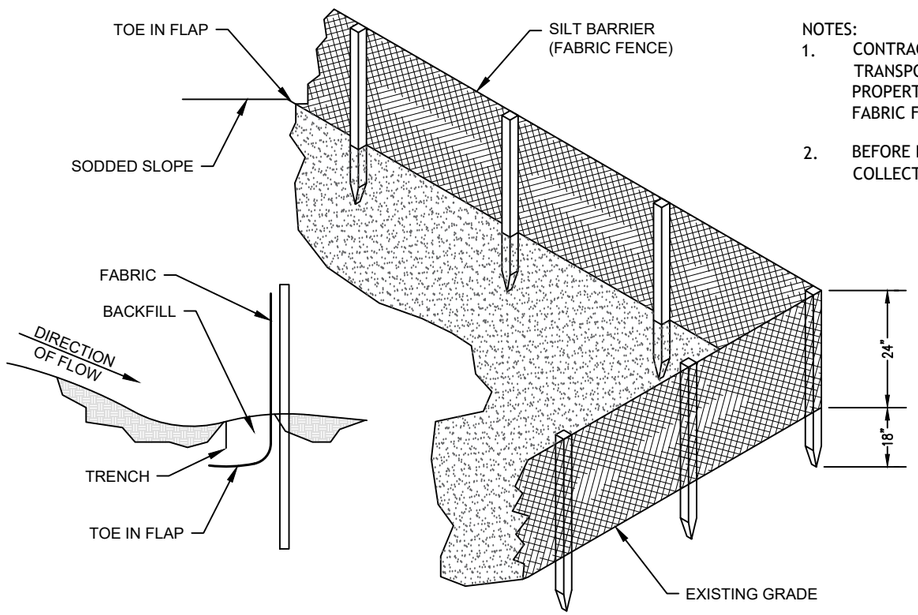
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

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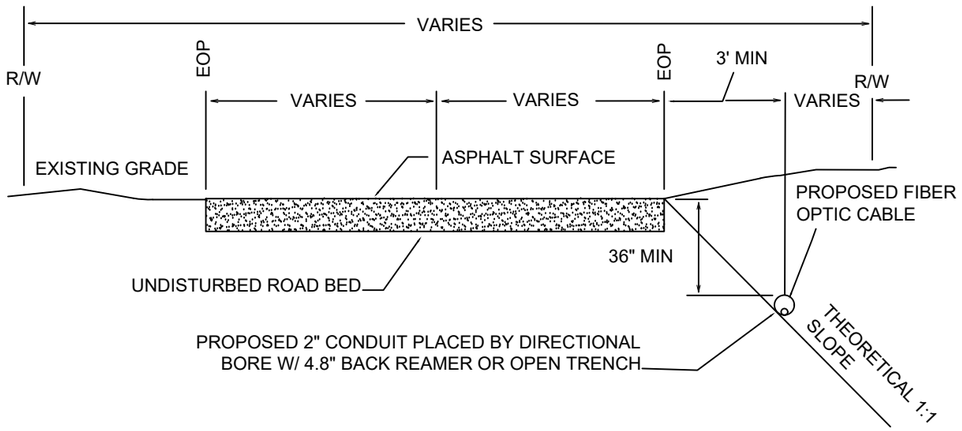
SHEET TITLE: TYPICALS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_003_FDH_012
DESCRIPTION:	FOX CANAL
DRAWING NAME:	LE1_003_FDH_012 - LEHIGH ACRES_LEE COUNTY_FLORIDA - FOX CANAL
SHEET:	10 OF 12

TYPICALS

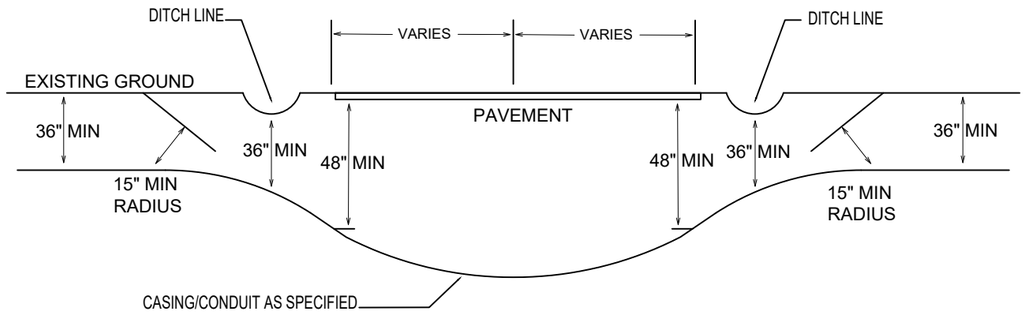
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



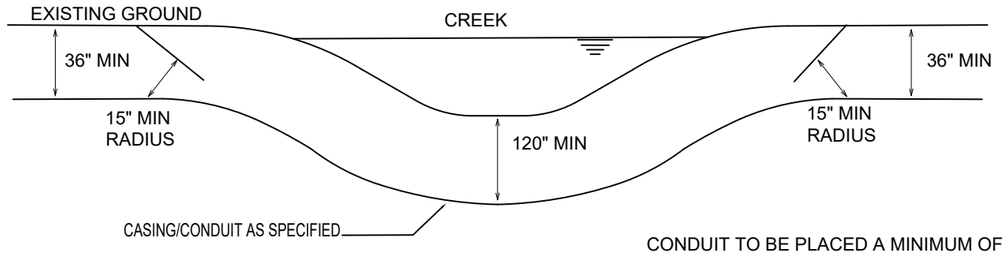
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

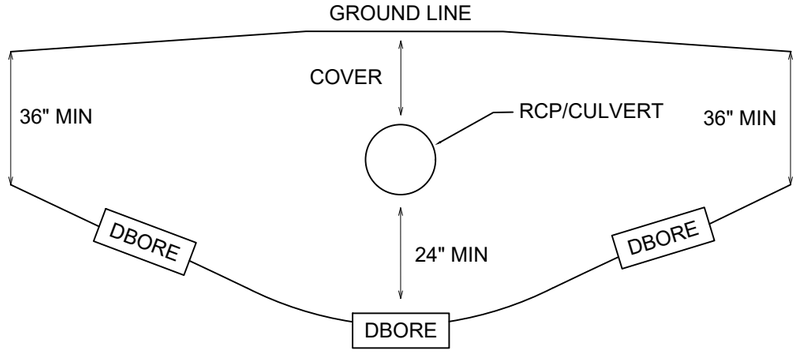
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 10 FEET BELOW CREEK BED

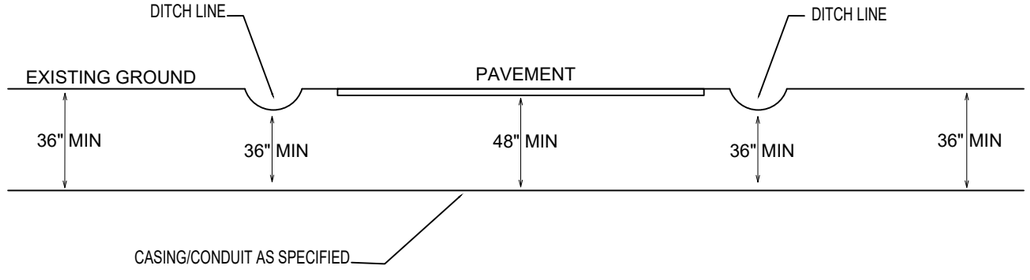
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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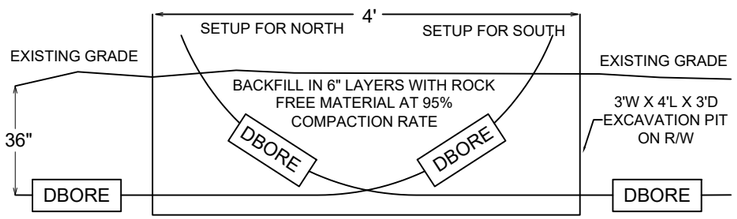
SHEET:	11 OF 12

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

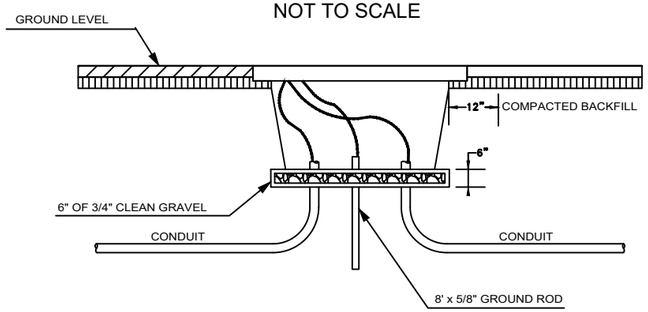


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

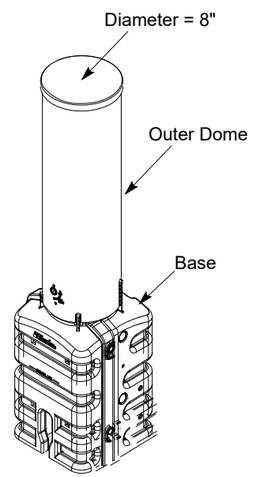
PULL BOX HANDHOLE

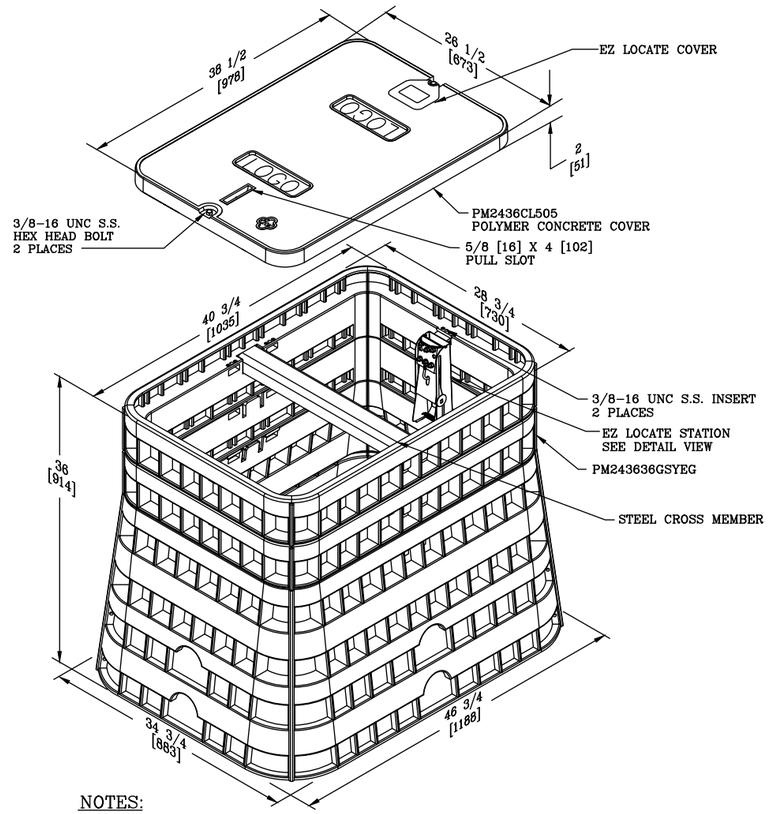
NOT TO SCALE



ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED ACCORDING TO THE PROCEDURES AND REQUIREMENTS SET FORTH IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652.

BDO204-EG

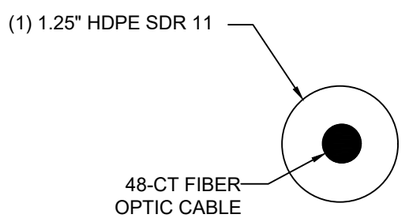




NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

PIPE DETAIL



PERMITTING AGENCY

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PROJECT NUMBER:	LE1_003_FDH_012
DESCRIPTION:	FOX CANAL
DRAWING NAME:	LE1_003_FDH_012 - LEHIGH ACRES_LEE COUNTY_FLORIDA - FOX CANAL
SHEET:	12 OF 12

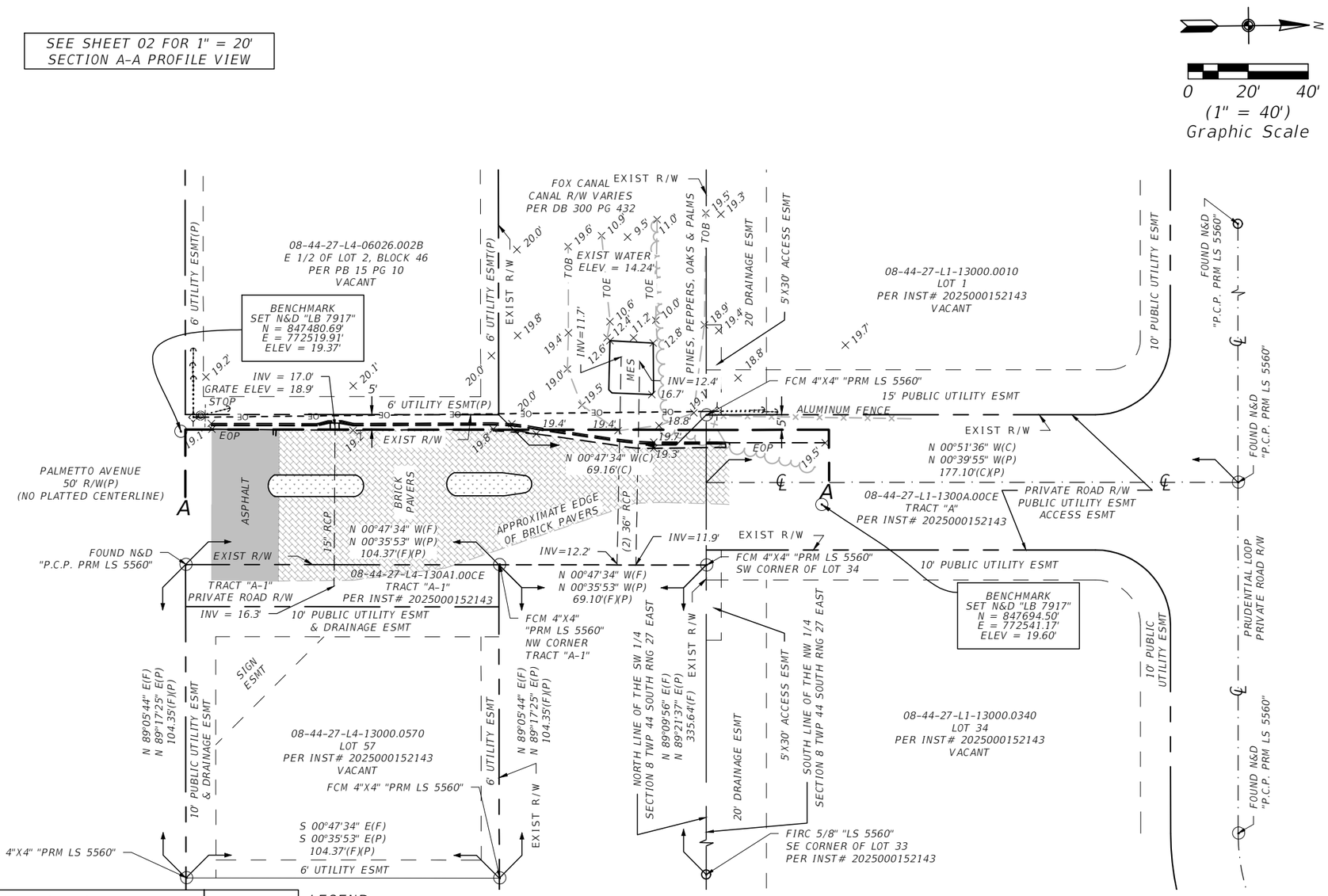
Topographic Survey of a Subject Project Site

LYING WITHIN

Section 8, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



NOTES:

Survey based on the plat of PLAT OF SOUTH 1/2 SEC. 8 TWP. 44S - RGE. 27E as recorded in Plat Book 15 Page 10 and the plat of Crown Bridge Estates as recorded in Instrument number 2025000152143, Public Records of Lee County, Florida and existing monumentation.

This survey prepared is a Topographic Survey for the purpose of locating the features within and adjacent to the Lehigh Acres Municipal Services Improvement District-managed facility west of Palmetto Avenue between West 18th Street and Prudential Loop.

The elevations shown hereon are referenced to the North American Vertical Datum of 1988 (NAVD 1988). All elevations are reported in US survey feet and decimals thereof and are based upon the Florida Permanent Reference Network (FPRN) stations maintained by the Florida Department of Transportation.

The subject site lies within Zone "X" per FEMA insurance rate map 125124 0317F (Published 08/28/2008), therefore has no base flood elevation.

The FEMA flood zone information indicated hereon is based on the maps supplied by the Federal Government. This flood information must be verified with all permitting regulatory entities prior to commencing any work or application dependent on said flood information.

Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 01/07/2026

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

Taylor Henninge 2026.03.06 15:35:42-05'00'

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

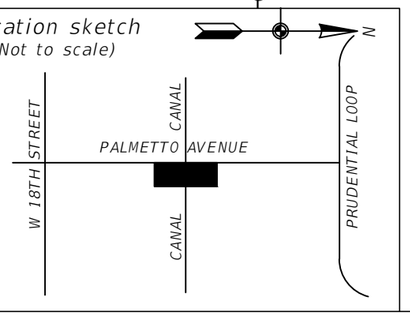
This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

W 18th Street, Lehigh Acres

Location sketch
(Not to scale)



LEGEND:

(P)	= PER PLAT
(C)	= CALCULATED
CB	= CATCH BASIN
Δ	= DELTA ANGLE
℄	= CENTER LINE
CONC	= CONCRETE
CMP	= CORRUGATED METAL PIPE
CPP	= CORRUGATED PLASTIC PIPE
DUE	= DRAINAGE AND UTILITY EASEMENT
ELEV	= ELEVATION
EOP	= EDGE OF PAVEMENT
ESMT	= EASEMENT
EXIST	= EXISTING
FCM	= FOUND CONCRETE MONUMENT
FIRC	= FOUND IRON ROD AND CAP
INST#	= INSTRUMENT NUMBER
INV	= INVERT ELEVATION
MES	= MITERED END SECTION
N&D	= NAIL AND DISK
NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
OR	= OFFICIAL RECORDS BOOK
PB	= PLAT BOOK
PG	= PAGE
R/W	= RIGHT OF WAY
RCP	= REINFORCED CONCRETE PIPE
RNG	= RANGE
S/W	= SIDEWALK
SEC	= SECTION
TOB	= TOP OF BANK
TOE	= TOE OF SLOPE
TWP	= TOWNSHIP
(TYP)	= TYPICAL

⊙	= FOUND MONUMENT
-OE-	= OVERHEAD UTILITY LINE
+20.0	= SPOT ELEVATION
	= WIRE PULL BOX
	= SINGLE SUPPORT SIGN
	= GUY ANCHOR
	= ELECTRICAL POLE

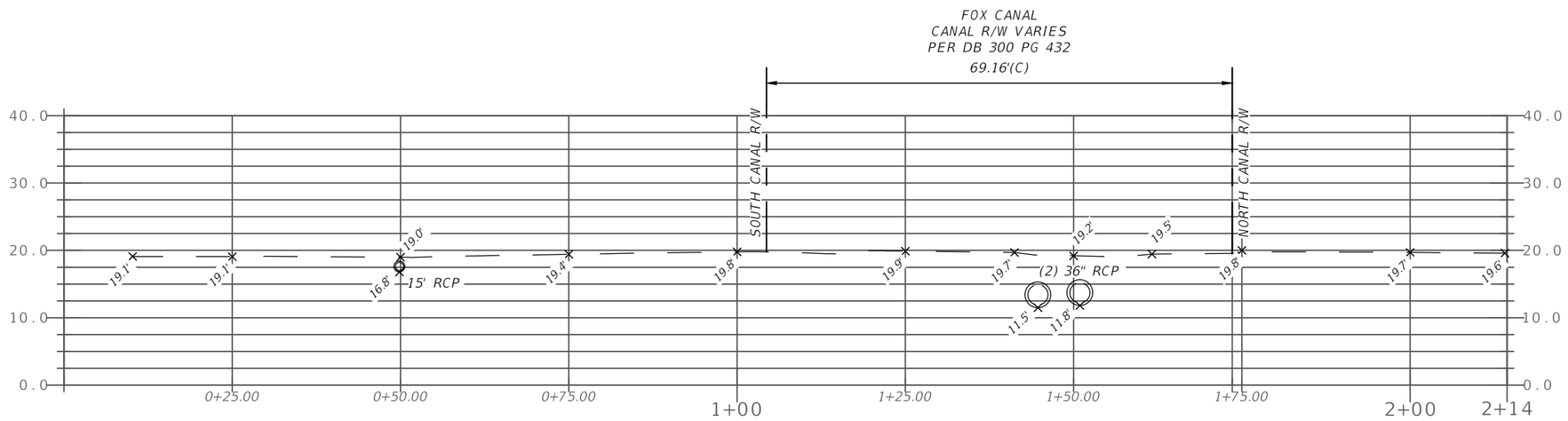
TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name: L069-900 W 18th St.dwg	Field book/page: 106981-3/34		Project No.: 106980001-L069
Survey date: 01/07/2026	Drawn by: JRB	Checked by: TJH	Sheet No.: 01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L069-900 W 18TH ST\L069-900 W 18th St.dwg

Topographic Survey of a
Subject Project Site
Section 8, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

W 18th Street, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L069-900 W 18th St.dwg	106981-3/34	106980001-L069

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/07/2026	JRB	TJH	02 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L069-900 W 18TH ST\L069-900 W 18th St.dwg

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

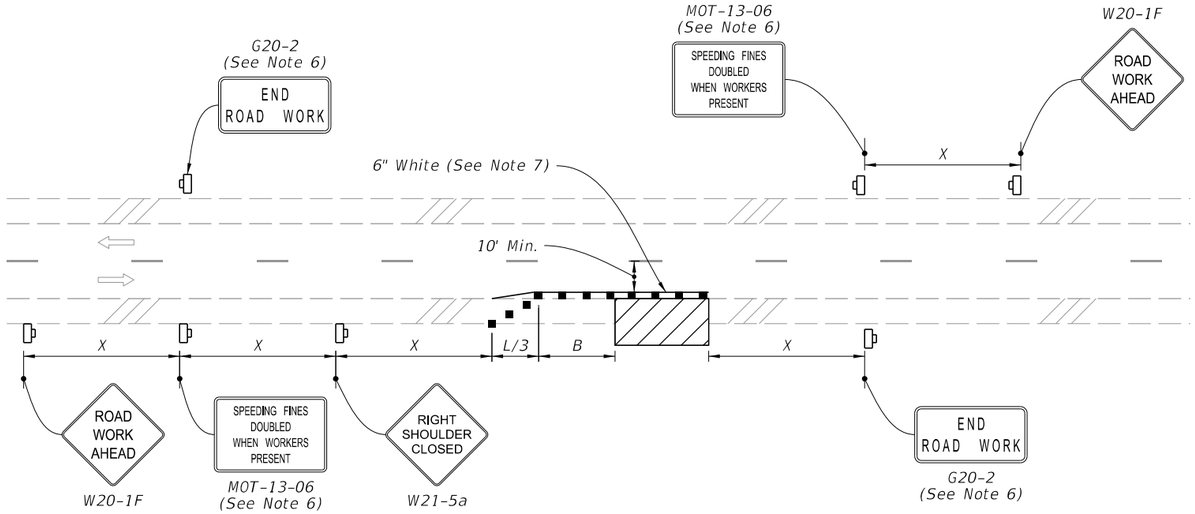
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

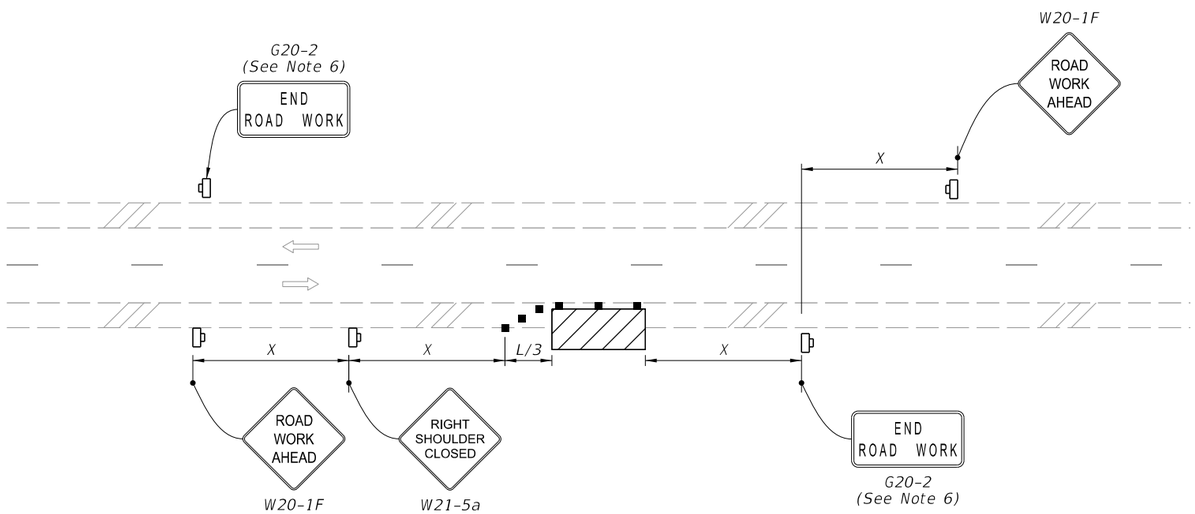
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



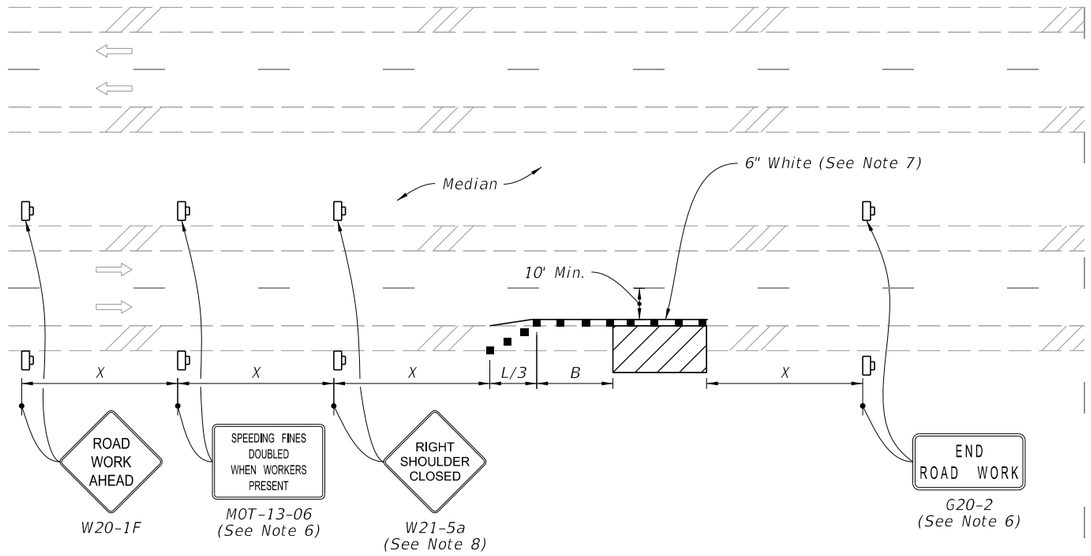
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



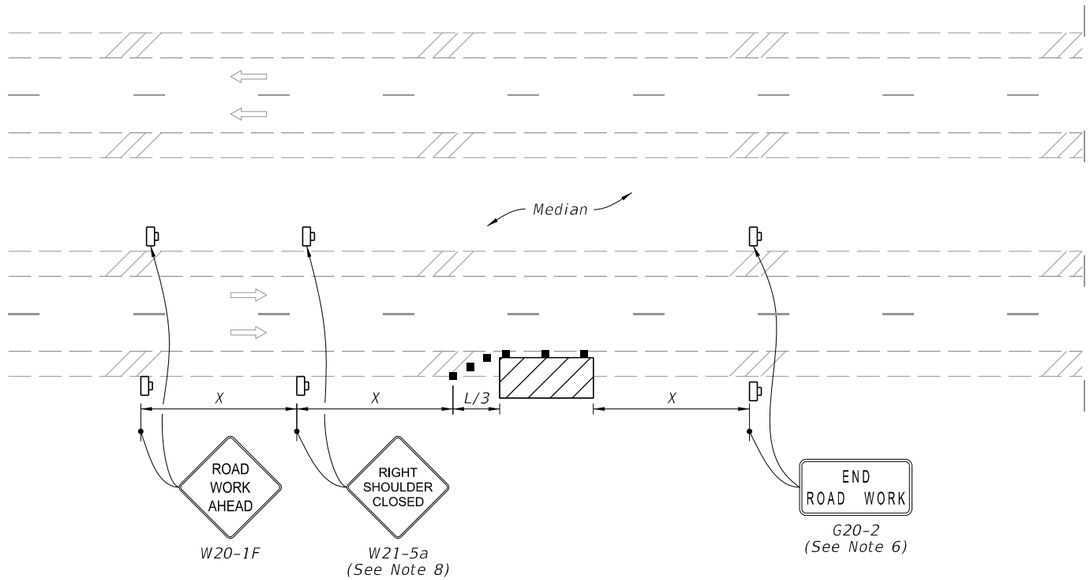
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FDOT FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

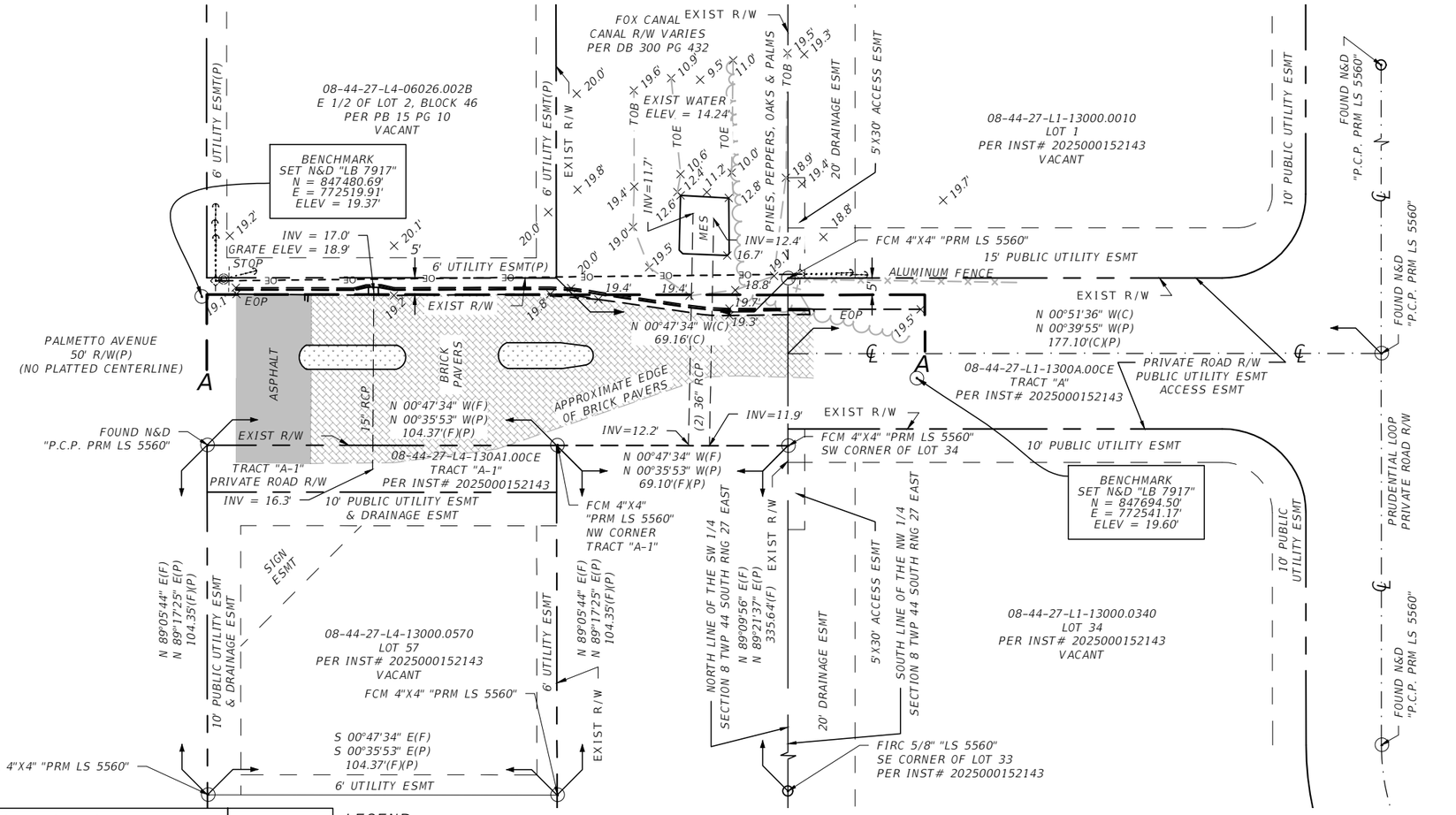
Topographic Survey of a Subject Project Site

LYING WITHIN

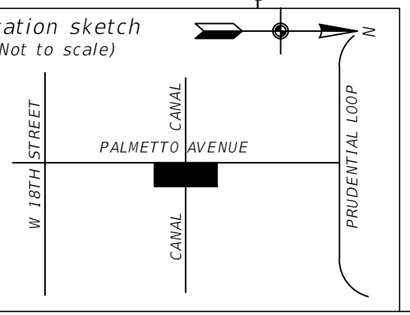
Section 8, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



Location sketch
(Not to scale)



LEGEND:

(P)	= PER PLAT
(C)	= CALCULATED
CB	= CATCH BASIN
Δ	= DELTA ANGLE
℄	= CENTER LINE
CONC	= CONCRETE
CMP	= CORRUGATED METAL PIPE
CPP	= CORRUGATED PLASTIC PIPE
DUE	= DRAINAGE AND UTILITY EASEMENT
ELEV	= ELEVATION
EOP	= EDGE OF PAVEMENT
ESMT	= EASEMENT
EXIST	= EXISTING
FCM	= FOUND CONCRETE MONUMENT
FIRC	= FOUND IRON ROD AND CAP
INST#	= INSTRUMENT NUMBER
INV	= INVERT ELEVATION
MES	= MITERED END SECTION
N&D	= NAIL AND DISK
NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
OR	= OFFICIAL RECORDS BOOK
PB	= PLAT BOOK
PG	= PAGE
R/W	= RIGHT OF WAY
RCP	= REINFORCED CONCRETE PIPE
RNG	= RANGE
S/W	= SIDEWALK
SEC	= SECTION
TOB	= TOP OF BANK
TOE	= TOE OF SLOPE
TWP	= TOWNSHIP
(TYP)	= TYPICAL

⊙	= FOUND MONUMENT
OE	= OVERHEAD UTILITY LINE
+20.0	= SPOT ELEVATION
	= WIRE PULL BOX
	= SINGLE SUPPORT SIGN
	= GUY ANCHOR
	= ELECTRICAL POLE

NOTES:

Survey based on the plat of PLAT OF SOUTH 1/2 SEC. 8 TWP. 44S - RGE. 27E as recorded in Plat Book 15 Page 10 and the plat of Crown Bridge Estates as recorded in Instrument number 2025000152143, Public Records of Lee County, Florida and existing monumentation.

This survey prepared is a Topographic Survey for the purpose of locating the features within and adjacent to the Lehigh Acres Municipal Services Improvement District-managed facility west of Palmetto Avenue between West 18th Street and Prudential Loop.

The elevations shown hereon are referenced to the North American Vertical Datum of 1988 (NAVD 1988). All elevations are reported in US survey feet and decimals thereof and are based upon the Florida Permanent Reference Network (FPRN) stations maintained by the Florida Department of Transportation.

The subject site lies within Zone "X" per FEMA insurance rate map 125124 0317F (Published 08/28/2008), therefore has no base flood elevation.

The FEMA flood zone information indicated hereon is based on the maps supplied by the Federal Government. This flood information must be verified with all permitting regulatory entities prior to commencing any work or application dependent on said flood information.

Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 01/07/2026

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

W 18th Street, Lehigh Acres

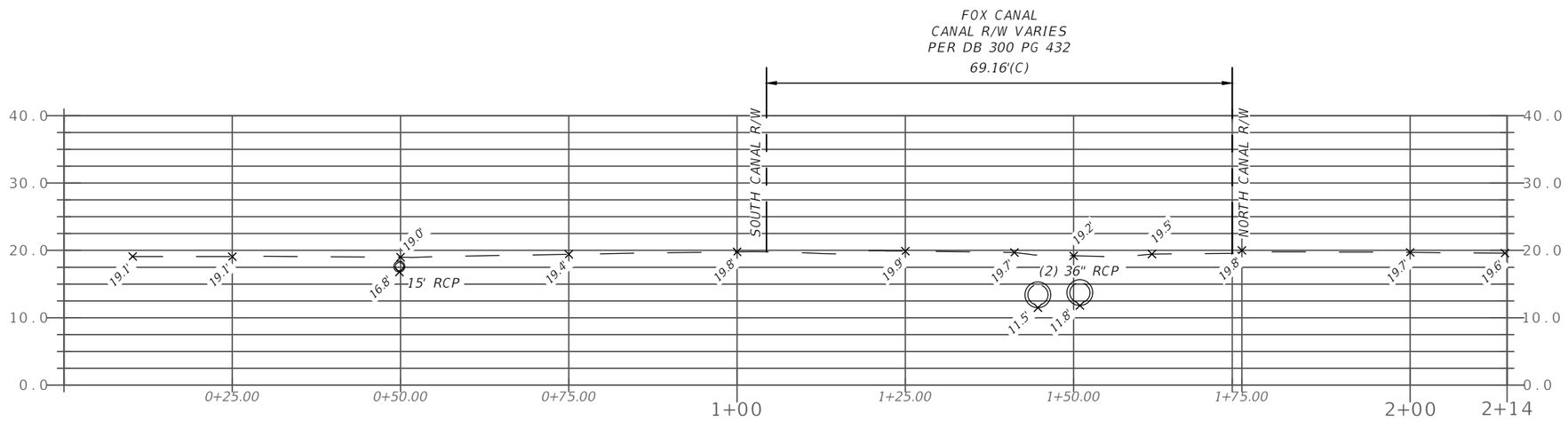
TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name: L069-900 W 18th St.dwg	Field book/page: 106981-3/34	Project No.: 106980001-L069	
Survey date: 01/07/2026	Drawn by: JRB	Checked by: TJH	Sheet No.: 01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L069-900 W 18TH ST\L069-900 W 18th St.dwg

Topographic Survey of a
Subject Project Site
Section 8, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

W 18th Street, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L069-900 W 18th St.dwg	106981-3/34	106980001-L069

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/07/2026	JRB	TJH	02 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L069-900 W 18TH ST\L069-900 W 18th St.dwg

PLAT OF SOUTH ½ SEC. 8

TWP. 44 S - RGE 27 E

LEE COUNTY, FLA.

SHOWING DEVELOPMENT OF RESERVED AREAS

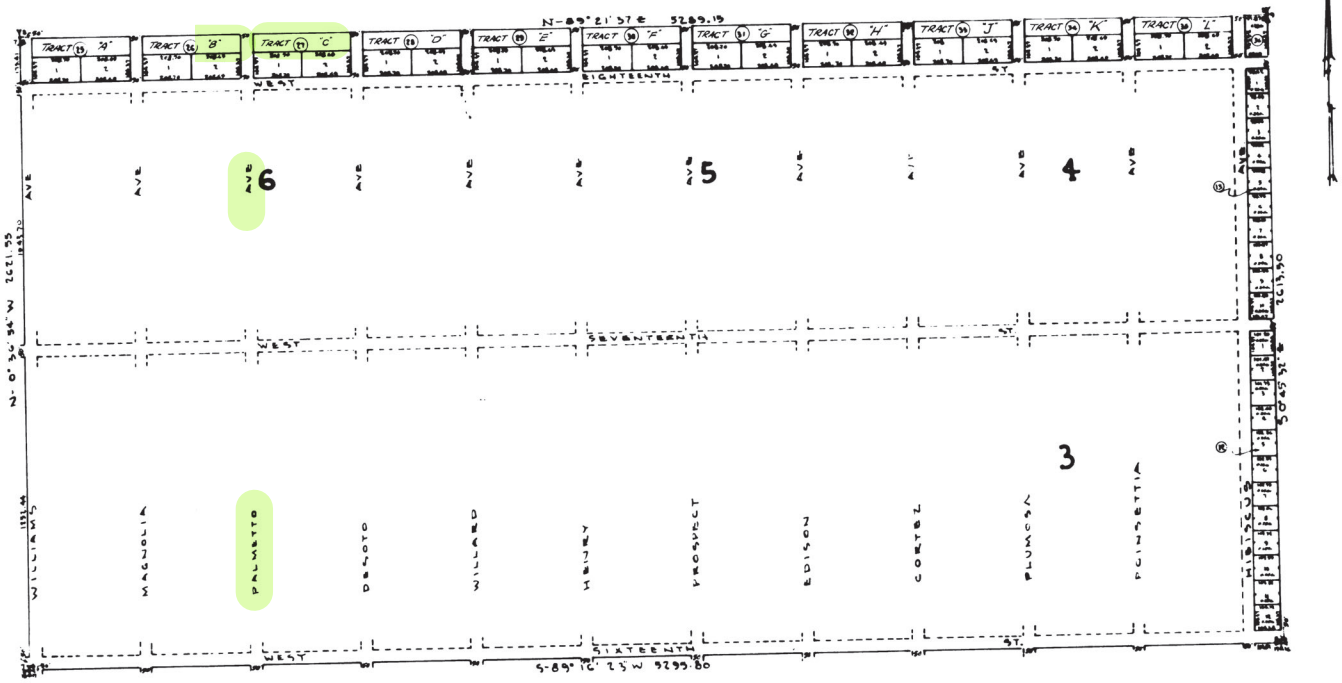
A SUBDIVISION OF

"LEHIGH ACRES"

LEE COUNTY LAND & TITLE CO.
DEVELOPERS

SCALE - 1" = 400'

OCT. 16 1956



CERTIFICATE OF SURVEY

I THE UNDERSIGNED HEREBY CERTIFY THAT THE PLAT AS SHOWN IS A CORRECT REPRESENTATION OF THE LAND AS PLATTED, AND THAT PERMANENT REFERENCE MONUMENTS HAVE BEEN PLACED AS SHOWN

FLORIDA REG. LAND SURVEYOR 1098

NOTE ALL LOTS SQUARE AND EXCEPT WHERE NOTED OTHERWISE REAR LOT CORNERS ARE 4"x4"x24" CONCRETE SET. CORNERS ARE 2"x2"x18" CONCRETE ALL LOTS SUBJECT TO A 5' UTILITY EASEMENT ON ALL SIDE LOT LINES

UNIT BOUNDARY

NOTE:
DIMENSIONS, BEARINGS, LOT AND LAND LINES ON DRAWING OF LATEST DATE SHALL GOVERN

PLAT OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

LEE COUNTY LAND AND TITLE COMPANY

DEVELOPERS

ACKNOWLEDGEMENTS

KNOW ALL MEN BY THESE PRESENTS, THAT LEE COUNTY LAND AND TITLE COMPANY, A CORPORATION UNDER THE LAWS OF FLORIDA, BEING THE OWNER OF THE LAND DESCRIBED IN THE CAPTION HEREON HAS CAUSED THIS PLAT OF LEHIGH ACRES TO BE MADE AND DO HEREBY DEDICATE TO THE PERPETUAL USE OF THE PUBLIC STREETS, ROADS, DRIVES AND/OR LANES SHOWN HEREON AND ALL CANAL RIGHT OF WAYS SHALL BE DEDICATED TO THE EAST COUNTY WATER CONTROL DISTRICT.

IN WITNESS WHEREOF GERALD H. GOULD AND EDWARD SHAPIRO, RESPECTIVELY PRESIDENT AND SECRETARY OF LEE COUNTY LAND AND TITLE COMPANY, BY AND WITH AUTHORITY OF IT'S BOARD OF DIRECTORS HAVE EXECUTED THESE PRESENTS FOR AND ON BEHALF OF SAID CORPORATION AND CAUSED IT'S CORPORATE SEAL TO BE AFFIXED THIS 10th DAY OF April A.D. 1961

LEE COUNTY LAND AND TITLE CO.

BY Gerald H. Gould
President

ATTEST Edward Shapiro
Secretary

STATE OF FLORIDA
COUNTY OF LEE

I HEREBY CERTIFY THAT ON THIS DAY, BEFORE ME AN OFFICER DULY AUTHORIZED TO TAKE ACKNOWLEDGEMENTS, PERSONALLY APPEARED GERALD H. GOULD AND EDWARD SHAPIRO, RESPECTIVELY PRESIDENT AND SECRETARY OF LEE COUNTY LAND AND TITLE COMPANY, TO ME KNOWN TO BE THE PERSONS DESCRIBED IN AND WHO EXECUTED THE FOREGOING DEDICATION AS PRESIDENT AND SECRETARY RESPECTIVELY OF LEE COUNTY LAND AND TITLE COMPANY FOR THE PURPOSES THEREIN SET FORTH.

WITNESS MY HAND AND OFFICIAL SEAL AT FORT MYERS, SAID COUNTY AND STATE THIS 10th DAY OF April A.D 1961

Susan Wheeler
NOTARY PUBLIC STATE OF FLORIDA AT LARGE
My Commission Expires July 19, 1964

APPROVALS

THIS PLAT APPROVED THIS 12 DAY OF April A.D. 1961 IN OPEN MEETING OF THE BOARD OF COUNTY COMMISSIONERS OF LEE COUNTY, FLORIDA.

APPROVED Gloyd S. Hunter
Chairman

D. J. Farabee
Clerk

County Attorney

Stacey Bruce
County Road Superintendent

260795

I HEREBY CERTIFY THAT THIS PLAT OF LEHIGH ACRES, HAS BEEN EXAMINED BY ME AND FROM MY EXAMINATION I FIND THAT SAID PLAT COMPLIES IN FORM WITH THE REQUIREMENTS OF SURVEY LAWS OF FLORIDA.

I FURTHER CERTIFY THAT SAID PLAT WAS FILED FOR RECORD AT FORT MYERS THIS 13 DAY OF April A.D. 1961, AND DULY RECORDED IN PLAT BOOK 15 ON PAGES 1-101 OF PUBLIC RECORDS OF LEE COUNTY, FLORIDA.

D. J. Farabee
Clerk Of The Circuit Court In And For Lee County

SURVEYORS CERTIFICATE

I THE UNDERSIGNED CERTIFY THAT THE PLAT AS SHOWN IS A CORRECT REPRESENTATION OF THE LANDS PLATTED.

R. V. Jamme

PLAT OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

LEE COUNTY LAND AND TITLE COMPANY

DEVELOPERS

DESCRIPTION

TOWNSHIP 43 SOUTH, RANGE 27 EAST

The Southeast 1/4 of Section 36

TOWNSHIP 44 SOUTH, RANGE 27 EAST

The South 1/2 and the North 1/2 of the North 1/2 of Section 1; the East 1/2 and the East 1/2 of the Northwest 1/4 and the Southwest 1/4 of the Northwest 1/4 of Section 2; the South 1/2 of Section 7, 8 and 9; all of Sections 11 through 21 inclusively and all of Sections 23 through 28 inclusively; all of Section 29 except that part lying South of the South Right of Way of Able Canal; all of Sections 35 and 36 inclusively; all of Section 32 except the following: Units 1, 2 and 3 of Section 32 as recorded on pages 124, 125 and 126 of Plat Book 9. Units 4, 5, 7, 10, 11 and 18 of Section 32 as recorded on Pages 50 through 55 inclusively of Plat Book 12. Unit 20 of Section 32 as recorded on Pages 86 through 89 inclusively of Plat Book 10. Part of Unit 3 as recorded on Page 23 of Plat Book 12. Addition to Unit 20 as recorded on Pages 36 and 37 of Plat Book 13 all of the Public Records of Lee County, and all of section 33 except the following: Units 4 and 10 of Section 33 as recorded on Page 52 of Plat Book 12. Unit 5 of Section 33 as recorded on Page 29 of Plat Book 12. Bear Lake Subdivision as recorded on Pages 38 and 39 of Plat Book 13. Replat of Lots 1 through 6, Block 4e, Section 33, Township 44 South, Range 27 East as recorded on Page 84 of Plat Book 12 all of the Public Records of Lee County and that part of Section 34 described as Follows; Beginning at the Northwest Corner of Section 34, Township 44 South, Range 27 East go North 89°-12'-26" East, 1919.76 feet; thence South 00° 06'-48" East, 1468.91 feet; thence South 89°-12'-26" West, 1919.76 feet; thence North 00°-06'-48" West, 1468.91 feet to the Point of beginning; and that part of section 34, Twp. 44 S., Rge 27 E., described as follows: commencing at the Southwest corner of Section 34; thence North 00°-06'-48" West along the West line of said Section 1403.40 feet to the Northerly right of way line of Joel Boulevard; thence North 88°-58'-52" East along said Northerly right of way 15.80 feet to the P.C. of a curve; thence Northeasterly on a tangential curve to the left, with a radius of 676.18 feet, a distance of 400.21 feet, to the P.T. of said curve, thence North 55°-05'-58" East, continuing along said Northerly right of way of Joel Boulevard, 1012.50 feet to the Southwesterly right of way of David Avenue, said point also being the actual point of beginning of the tract of land to be described; thence North 34°-54'-02" West along said southwesterly right of way line 1610 feet; thence North 55°-05'-58" East, a distance of 200 feet; thence South 34°-54'-02" East, a distance of 90 feet; thence North 55°-05'-58" East, a distance of 175 feet; thence North 87° 55'-40" East, a distance of 184.45 feet; thence South 34°-54'-02" East, a distance of 185 feet; thence South 55°-05'-58" West, a distance of 280 feet; thence South 34°-54'-02" East, a distance of 375 feet; thence South 55°-05'-58" West, a distance of 200 feet; thence South 34°-54'-02" East, a distance of 860 feet; thence South 55°-05'-58" West, a distance of 50 feet, to the actual Point of Beginning; and all of Section 22 lying West of the West right of way line of Gerald Avenue as shown on the Plat of a Subdivision of Part of Lehigh Acres recorded on Pages 50 through 55 inclusively of Plat Book 12 of the Public Records of Lee County, Florida.

TOWNSHIP 44 SOUTH, RANGE 26 EAST

All of Sections 1, 2, 11, 12, 13, 23, 24, 26, 27, 32, 33, 34, 35, and 36; and the South 1/2 of Sections 29 and 30; and the South 100 feet of the North 1/2 of Section 30; and the East 1/2 of Section 14; the South 1/2, and that part of the North 1/2 of Section 28, lying East of Buckingham Road; all of Block E, Lot 1, Block 38 of Buckingham Park, south section as recorded in Plat Book 9, Page 99 of the Public Records of Lee County, Florida, and all that part of Section 22 lying South and West of the southerly right of way of Homestead Road, except Lots 1 through 7 inclusively, Block 37 of Buckingham Park south section as recorded in Plat Book 9, Page 99 of the Public Records of Lee County, Florida; and that part of Section 31, lying North of the Northerly right of way of State Road 82; and all of Section 25 except Units 3 and 6 and Units 11 and 12 as recorded in Plat Book 13, Pages 21, 22 and 23 of the Public Records of Lee County, Florida.

TOWNSHIP 45 SOUTH, RANGE 26 EAST

All of Sections 1, 2, 3 and 12, all of that part of sections 4, 5, 6, 9, 10, 11, 13 and 14 lying North of the Northerly right of way of State Road 82.

PART IV #26-76

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ **Approved ___ Denied ___**

District Manager: _____ **Date**: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Fox Canal (47-8-2) at 900 W. 18th St., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Please move the "Min 120"" annotation to be closer to the lower pipe invert on Sheet 7 to avoid confusion in the field or reword "Must maintain min 10' below bottom of canal *or lowest pipe invert elevation* in LA-MSID ROW".

2. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

3. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

4. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

5. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

6. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Buckeye Canal (47-7-1), along the east side of Mobile Ct., between Mayberry Dr. & W. 18th St., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-77

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-77 is approved according to the plans submitted April 30th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 100' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Mobile Ct.

04 - 29 - 26
26 - 77

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: WILLIAM KIEFER **PHONE #:** (515) 306 - 3403

PROJECT NAME: LE1_002_FDH_010 1847 MOBILE CT - SKIPPER CANAL

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 1847 MOBILE CT					
Mailing Address:	N/A				
City:	LEHIGH ACRES	**State:**	FLORIDA	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary*):

0	7	-	4	4	-	2	7	-	L	2	-	3	9	2	5	4	-	0	0	4	0

Brief description of proposed project:

Application for: DIRECTIONAL BORE 2x1.25" HDPE SDR 11 CONDUIT 100' IN THE LAMSID ROW OF SKIPPER CANAL (47-8-1) ALONG MOBILE CT

Buckeye Canal (47-7-1)

RECEIVED
APR 30 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$2250.00 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	LUMOS FIBER OF FLORIDA, LLC				
Mailing Address:	**Street:**	4100 MENDENHALL OAKS PKWY, SUITE 300			
City:	HIGH POINT	**State:**	NORTH CAROLINA	**Zip:**	27265
Phone No.	**Area Code:** 515	**Number:**	306 - 3403	**Ext.**	
Fax No.	**Area Code:**	**Number:**	-		
E-mail Address:	WILLIAM.KIEFER@LUMOSFIBER.COM				

B. Relationship of applicant to property*:

Owner* ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee*** ☐

Contract Purchaser* ☐ **Other (indicate)*** ☑ UTILITY

C.

Name of Developer:	MILENIUM DIRECTIONAL DRILLING, INC				
Mailing Address:	**Street:**	5395 COGSWELL DR			
WAYNE	**State:**	MI	**Zip:**	48184	
Area Code:	(313)	**Number:**	326 - 2333	**Ext.**	
Fax No.	**Area Code:** ( )	**Number:**	-		
E-mail Address:	FELECAND@MILENIUMBORS.COM				

D.

Name of Authorized Agent(s):	CENTILLION SOLUTIONS						
Mailing Address:	Street:	6030 BETHELVIEW RD, SUITE 301					
City:	CUMMING		State:	GEORGIA		Zip:	30040
Phone No.	Area Code:	(480)	Number:	442 - 0562		Ext.	
Fax No.	Area Code:	( )	Number:	-			
E-mail Address:	KYLE.PARKEY@CENTILLIONSOLUTIONS.COM						

E.

Name of Property owner:	N/A						
Mailing Address:	Street:						
City:			State:			Zip:	
Phone No.	Area Code:	( )	Number:	-		Ext.	
Fax No.	Area Code:	( )	Number:	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

☐☐-☐☐-☐☐-☐☐-☐☐☐☐-☐☐☐

PRIMARY STRAP NUMBER:

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

WILLIAM KIEFER
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 29th day of April (m), 2024 (y), by William Kiefer who is personally know to me or has produced F.D.L. as identification.

TANIA MARIE JOY BROWN
Notary Public - State of Florida
Commission # HH 473129
My Comm. Expires Dec 14, 2027
Bonded through National Notary Assn.

Tania Brown
SIGNATURE OF NOTARY PUBLIC

Tania Brown
PRINTED NAME OF NOTARY PUBL

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**			**Zip:**		
Business No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Other Contact:							

ENGINEER

Name:	MCKIM & CREED						
Mailing Address:	5701 DIVISION DR, STE A						
City:	FORT MYERS	**State:**		FLORIDA	**Zip:**	33905	
Business No.	**Area Code:**	(239)	**Number:**	980 - 3384	**Ext.**		
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	BLAIR CONSULTING SERVICES, INC						
Mailing Address:	1428 SUNBLUSH LN						
City:	LAS VEGAS	**State:**		NV	**Zip:**	89117	
Business No.	**Area Code:**	(813)	**Number:**	579 - 0128	**Ext.**		
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
NA	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
NA	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
NA	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/12/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-77	Lumos bore under Buckeye Canal (47-7-1) At Mobile Ct.	Total Fee $2,250.00
	Permit Fee: $750 + $15 x 100'/pc = $750 + $1500	Due From Deposit
	Total Fee = $2,250.00	
	TOTAL	$2,250.00

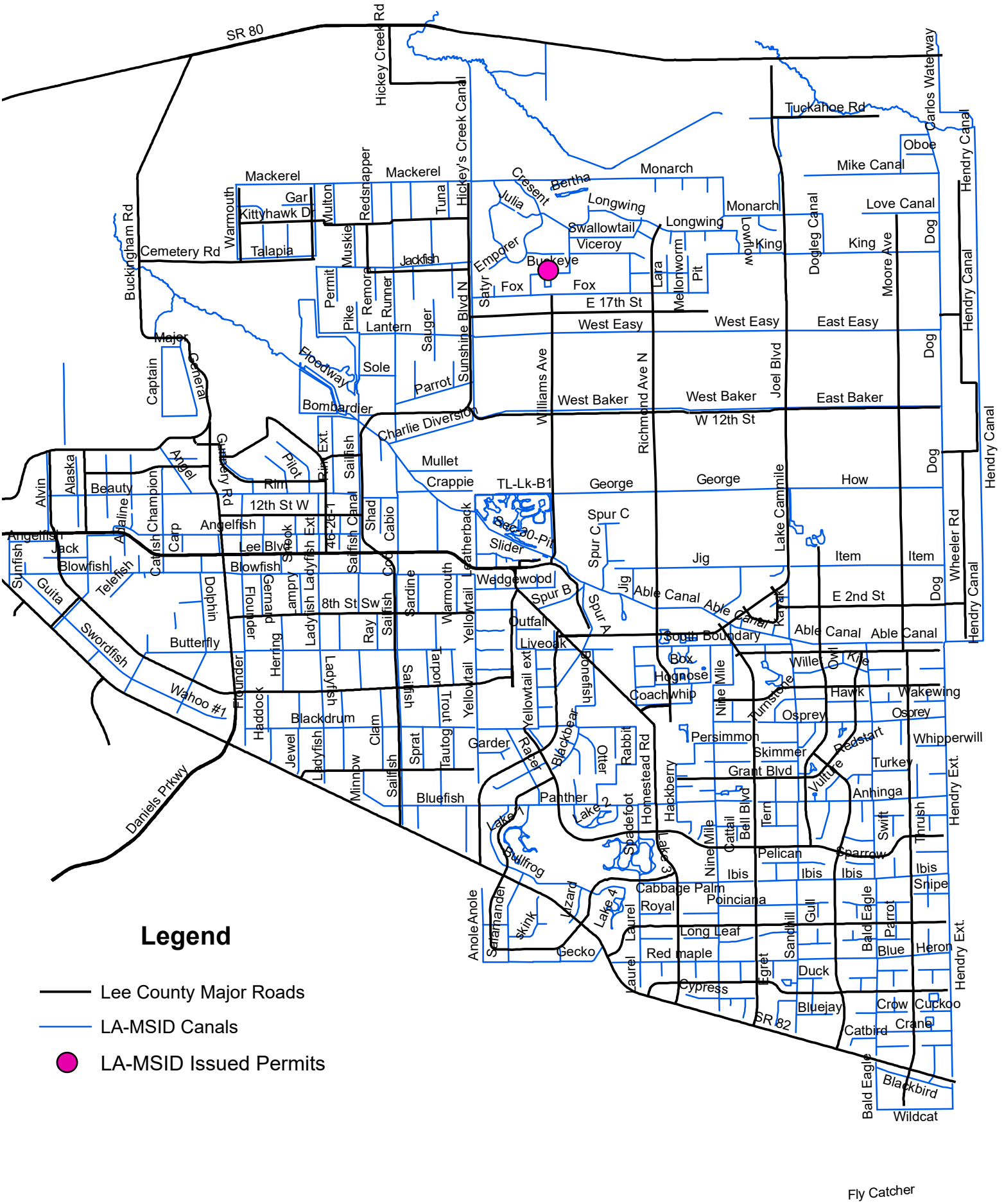
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/12/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs. Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry.**

*The CR account will need to be changed based on the customer. See accounting to setup new customer deposit accounts.

Permit # 2026-77



LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL

1847 MOBILE CT, LEHIGH ACRES, FL 33972 (26.669004, -81.647320)

PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 300' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 48-CT FIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
1	COVER SHEET	7	PROFILE VIEW
2	SOW AND CONTACTS	8 - 9	IMAGES
3	LEGEND	10 - 12	TYPICALS
4 - 5	GENERAL NOTES		
6	PROJECT SHEETS		

PERMITTING AGENCY

LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

Blair Consulting Services, INC
1428 Sunblush Ln, Las Vegas, NV 89117
Fabio Perassi - Project Manager
fsperassi@gmail.com

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:	COVER SHEET
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_010
DESCRIPTION:	SKIPPER CANAL
DRAWING NAME:	LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL
SHEET:	1 OF 12

SCOPE OF WORK

- BURIED PLACEMENT OF 300' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 48-CT MICROFIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
William Kiefer - OSP Project Engineer
William.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

ENGINEERING COMPANY

Blair Consulting Services, INC
1428 Sunblush Ln,
Las Vegas, NV 89117

PROJECT MANAGER
Fabio Perassi
813-579-0128
fsperassi@gmail.com

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

LEE COUNTY ELECTRIC CO-OP
TOM BAILEY
(239) 656-2414

LUMOS FIBER OF FLORIDA, LLC
MARLON BROWN - SR DIRECTOR
MARLON.BROWN@LUMOSFIBER.COM
(540) 278-0304

FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: SOW & CONTACTS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_010
DESCRIPTION:	SKIPPER CANAL
DRAWING NAME:	LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL
SHEET:	2 OF 12

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F	
	IN: 0
	OUT: 0

SEQUENTIAL CALLOUT

#F	
	IN: 0
	TAIL: 0

SEQUENTIAL IN TAIL CALLOUT

#F	
	TAIL: 0
	OUT: 0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

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BLAIR CONSULTING SERVICES, Inc.
1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: LEGEND

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_010
DESCRIPTION:	SKIPPER CANAL
DRAWING NAME:	LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL
SHEET:	3 OF 12

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

PERMITTING AGENCY

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:	GENERAL NOTES
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_010
DESCRIPTION:	SKIPPER CANAL
DRAWING NAME:	LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL
SHEET:	4 OF 12

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:
GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_010
DESCRIPTION:	SKIPPER CANAL
DRAWING NAME:	LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL
SHEET:	5 OF 12

PROPOSED BORE
PIT 03+00

PROPOSED UTILITY
MARKER 02+00

DIRECTIONAL BORE:
- (2) 1.25" HDPE SDR 11 CONDUIT
- 300'
- MINIMUM DEPTH = 210" STA– 01+00 TO 02+00

BUCKEYE CANAL
47-7-1

SKIPPER CANAL
47-8-1

PROPOSED UTILITY
MARKER 01+00

PROPOSED BORE
PIT 00+00

MOBILE CT

23' 01+49

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0 10' 20' 30' 40'
SCALE: 1"=40'

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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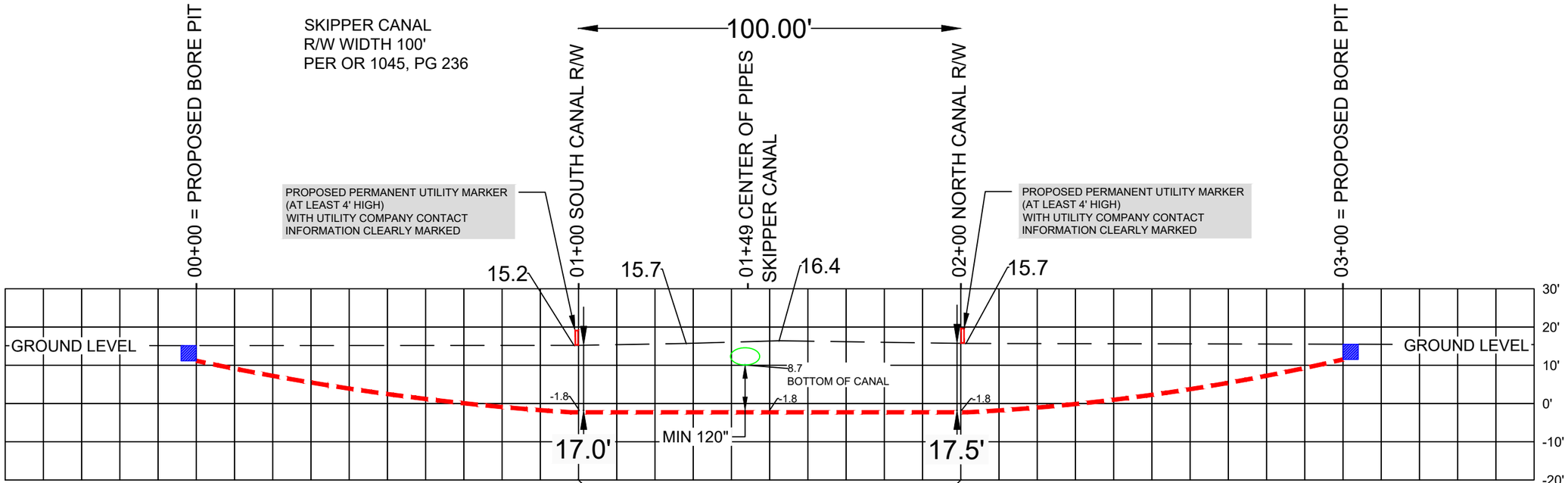
SHEET TITLE: PROJECT SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_010
DESCRIPTION:	SKIPPER CANAL
DRAWING NAME:	LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL
SHEET:	6 OF 12

SUB-GRADE VERTICAL PROFILE VIEW
MOBILE CT
LOOKING WEST



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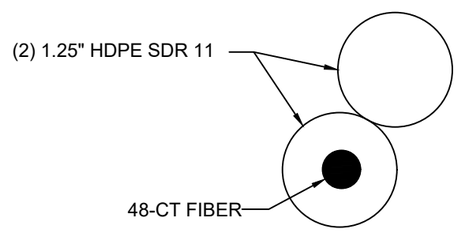
PIPE DETAIL



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0 10' 20' 30'
SCALE: 1"=30'

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: PROFILE VIEW

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_010
DESCRIPTION:	SKIPPER CANAL
DRAWING NAME:	LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL
SHEET:	7 OF 12

STREET LEVEL VIEW
STA 02+00
FACING SOUTH

04/25/2026 2:43PM
26.669165, -81.647280
1822 MAYBERRY DR
LEHIGH ACRES, FL 33972

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:	IMAGES
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_010
DESCRIPTION:	SKIPPER CANAL
DRAWING NAME:	LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL
SHEET:	8 OF 12

STREET LEVEL VIEW
STA 01+00
FACING NORTH

04/25/2026 2:44PM
26.668871, -81.647283
1846 MOBILE CT
LEHIGH ACRES, FL 33972

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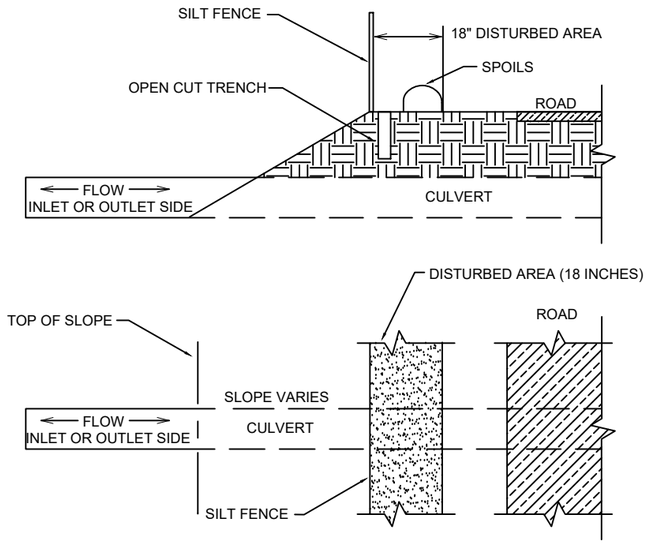
SHEET TITLE: IMAGES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_010
DESCRIPTION:	SKIPPER CANAL
DRAWING NAME:	LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL
SHEET:	9 OF 12

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

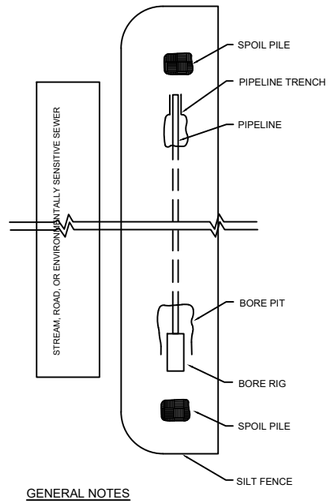
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

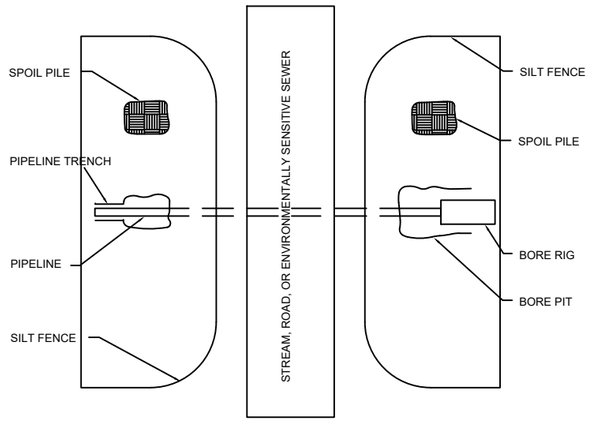


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

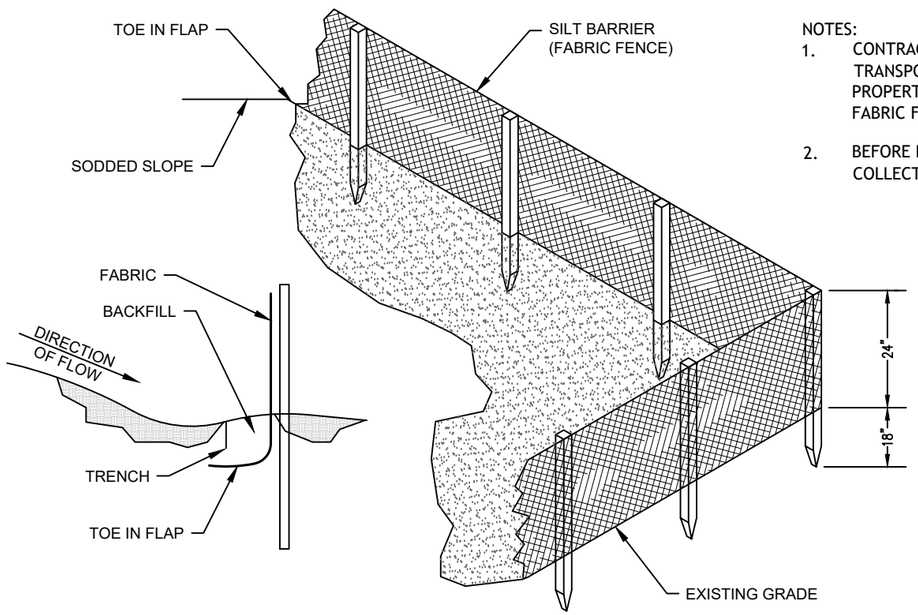
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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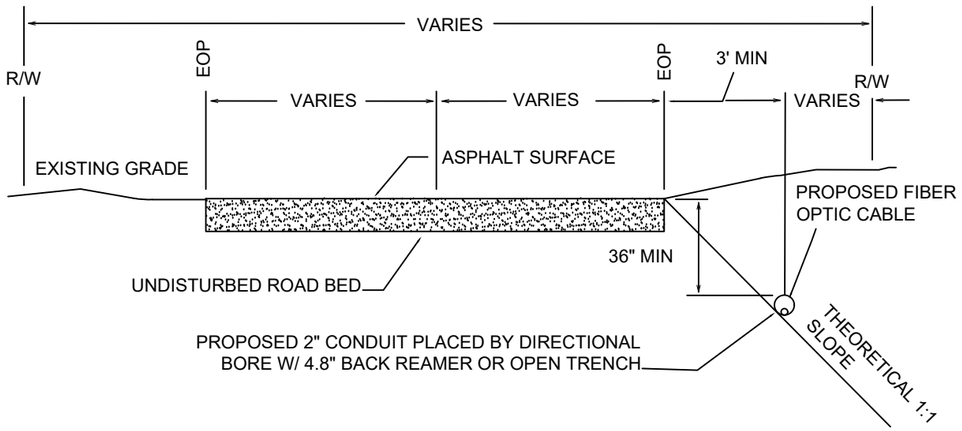
SHEET TITLE: TYPICALS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_010
DESCRIPTION:	SKIPPER CANAL
DRAWING NAME:	LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL
SHEET:	10 OF 12

TYPICALS

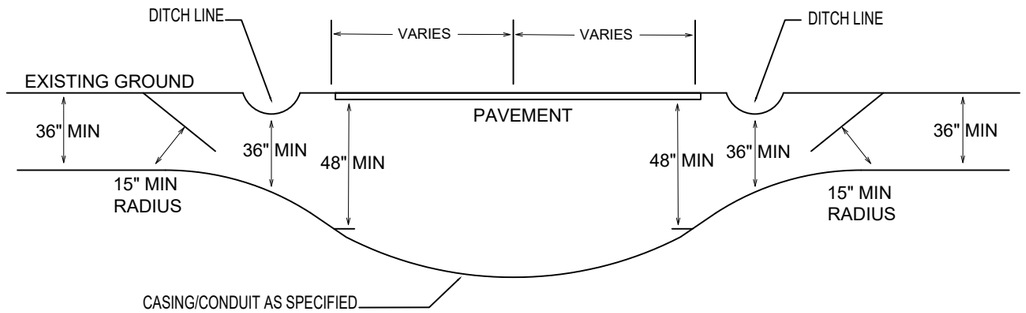
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



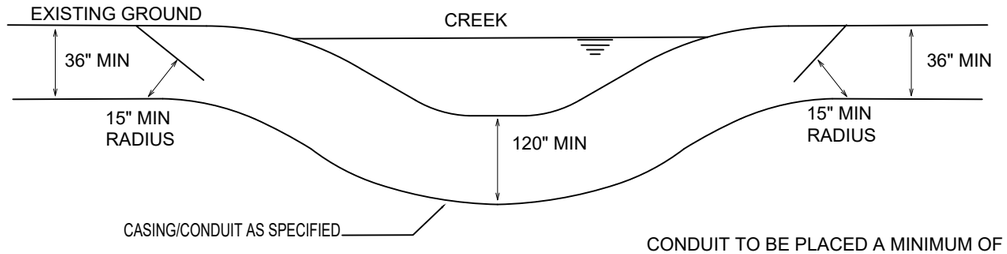
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

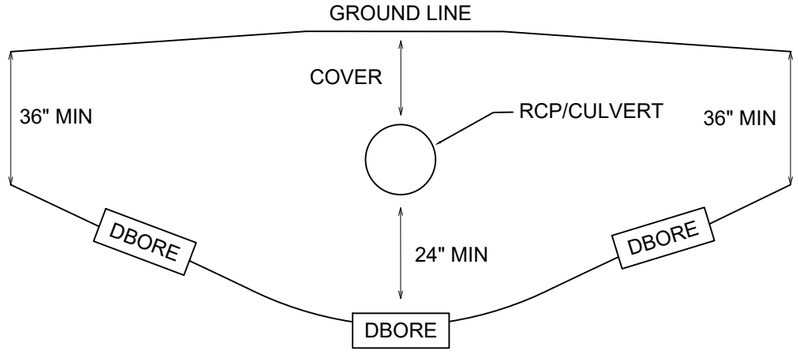
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 10 FEET BELOW CREEK BED

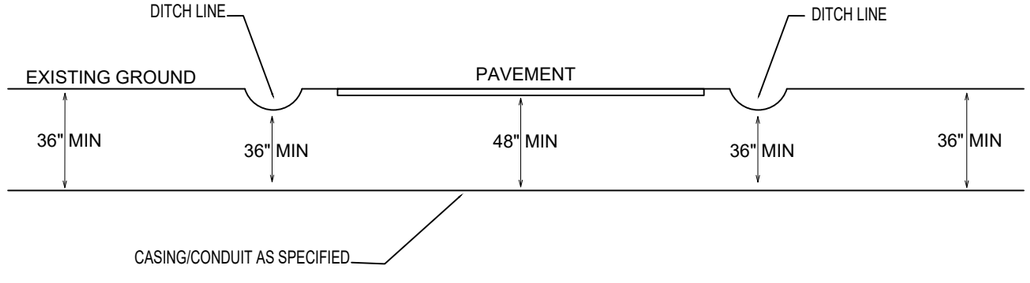
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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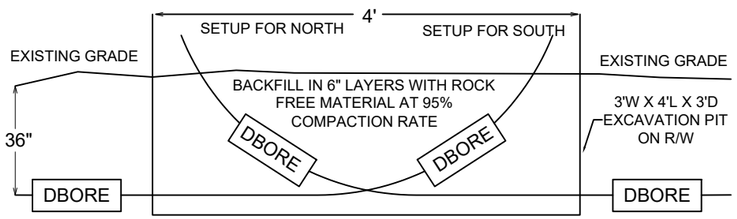
SHEET TITLE:	TYPICALS
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_010
DESCRIPTION:	SKIPPER CANAL
DRAWING NAME:	LE1_002_FDH_010 - LEHIGH ACRES_LEE COUNTY_FLORIDA - SKIPPER CANAL
SHEET:	11 OF 12

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

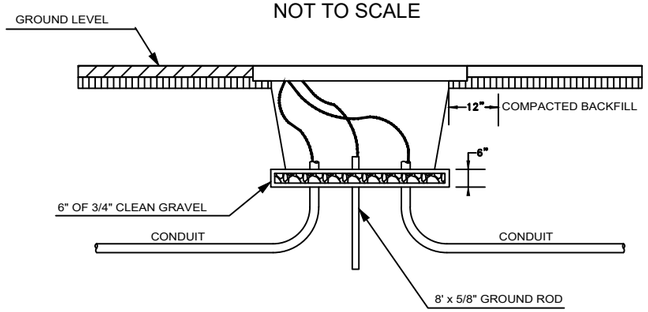


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

PULL BOX HANDHOLE

NOT TO SCALE



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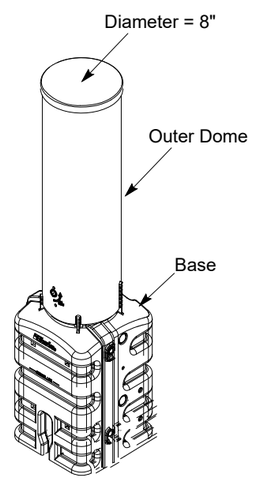
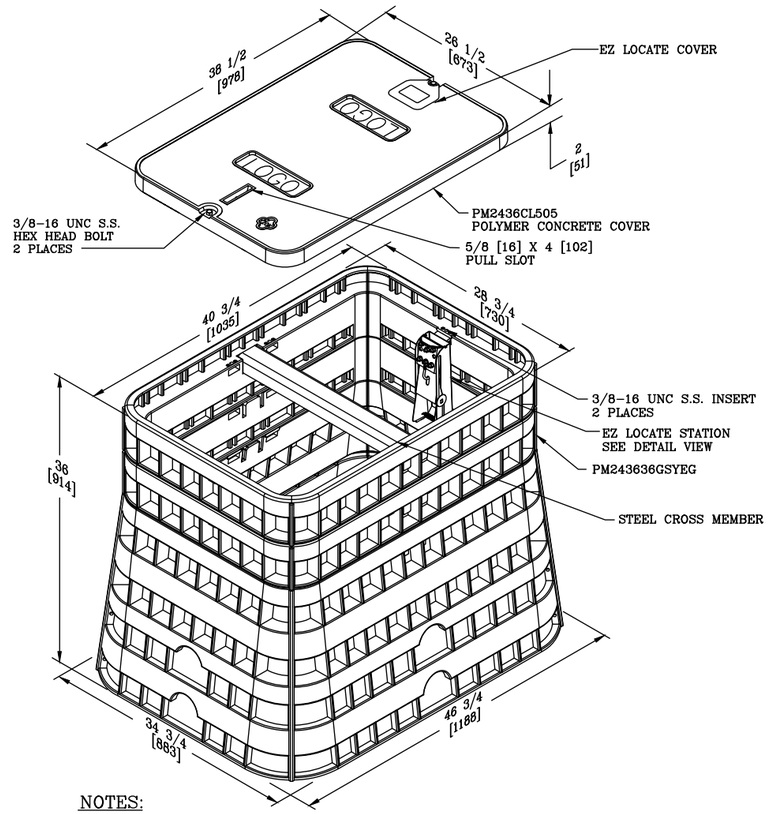
BDO204-EG

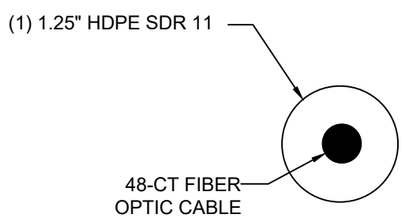




NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

PIPE DETAIL



PERMITTING AGENCY

LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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SHEET:	12 OF 12

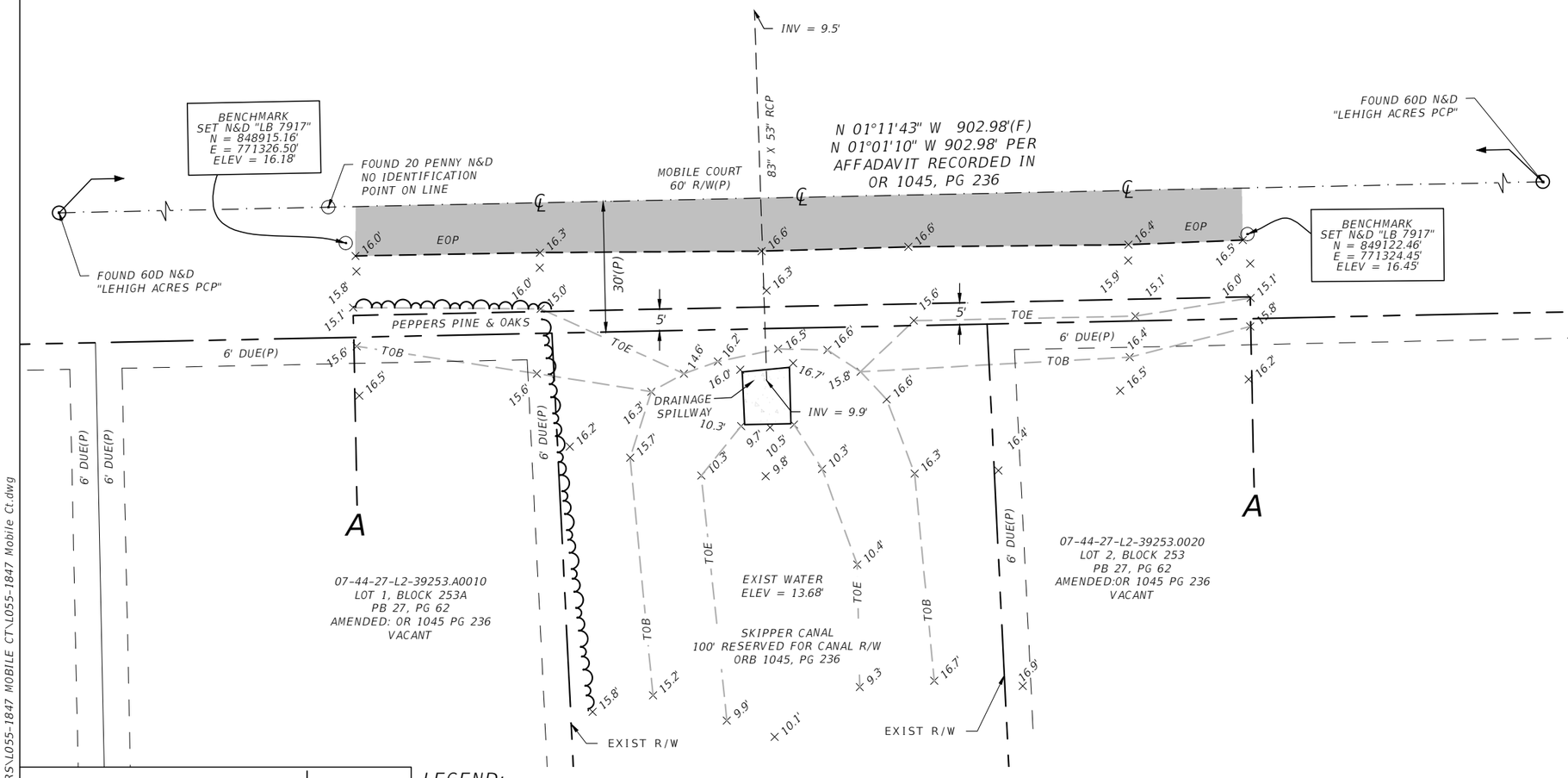
Topographic Survey of a Subject Project Site

lying within

Section 7, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



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Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 12/29/2025

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

Taylor Henninge 2026.01.30 12:17:44-05'00'

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

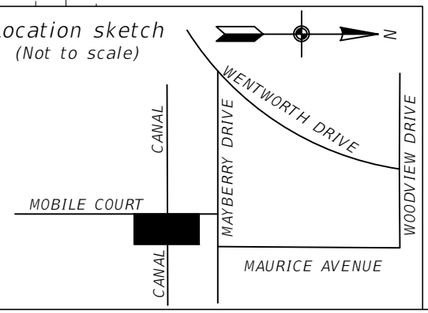
Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Location sketch
(Not to scale)



LEGEND:

(P)	= PER PLAT	N&D	= NAIL AND DISK
(F)	= FIELD MEASURED	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
CB	= CATCH BASIN	OR	= OFFICIAL RECORDS BOOK
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CONC	= CONCRETE	R/W	= RIGHT OF WAY
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FIRC	= FOUND IRON ROD AND CAP	TWP	= TOWNSHIP
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INV	= INVERT ELEVATION		

⊙ = FOUND MONUMENT
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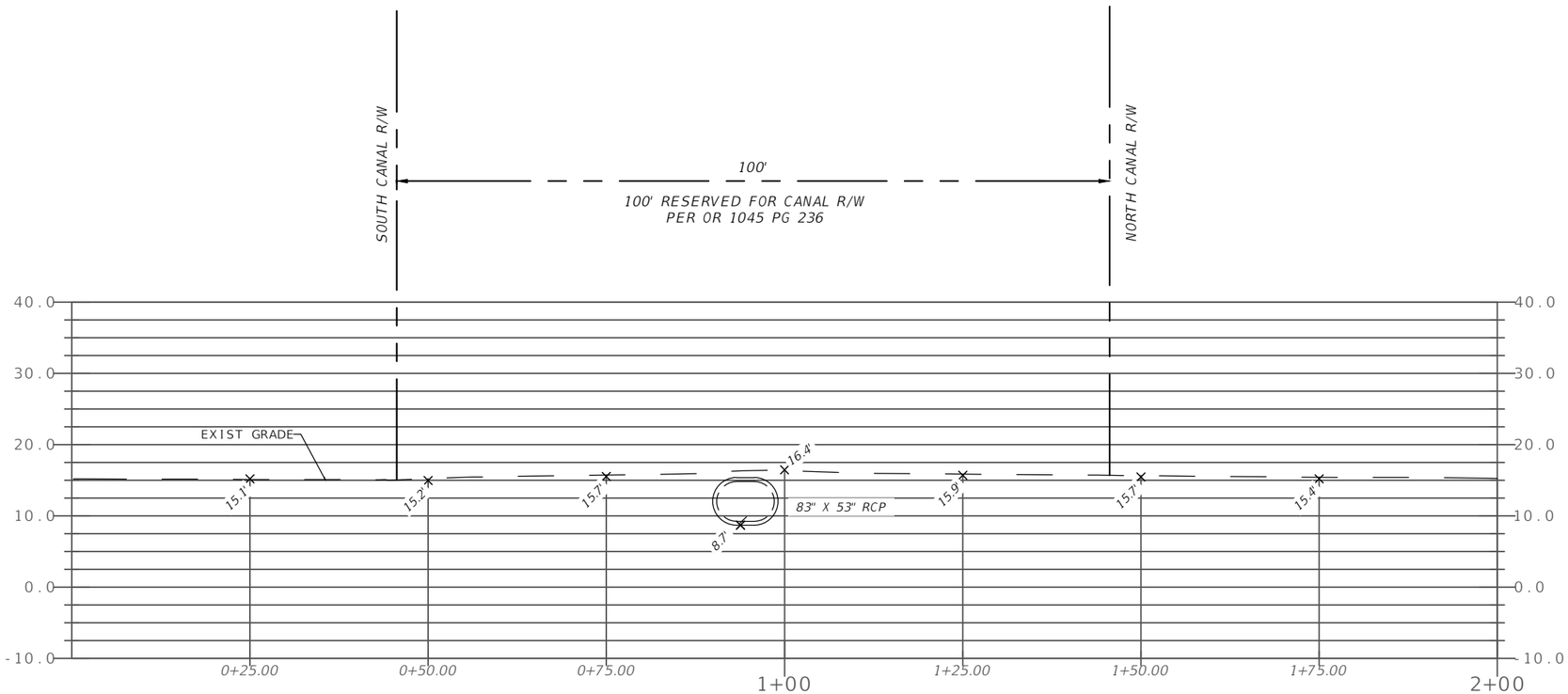
TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name: L055-1847 Mobile Ct.dwg	Field book/page: 106981-3/27	Project No.: 106980001-L055	
Survey date: 12/29/2025	Drawn by: KB	Checked by: TJH	Sheet No.: 01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L055-1847 MOBILE CT\L055-1847 Mobile Ct.dwg

Topographic Survey of a
Subject Project Site
Section 7, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Mobile Court, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
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L055-1847 Mobile Ct.dwg	106981-3/27	106980001-L055

Survey date:	Drawn by:	Checked by:	Sheet No.:
12/29/2025	KB	TJH	02 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L055-1847 MOBILE CT\L055-1847 Mobile Ct.dwg

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

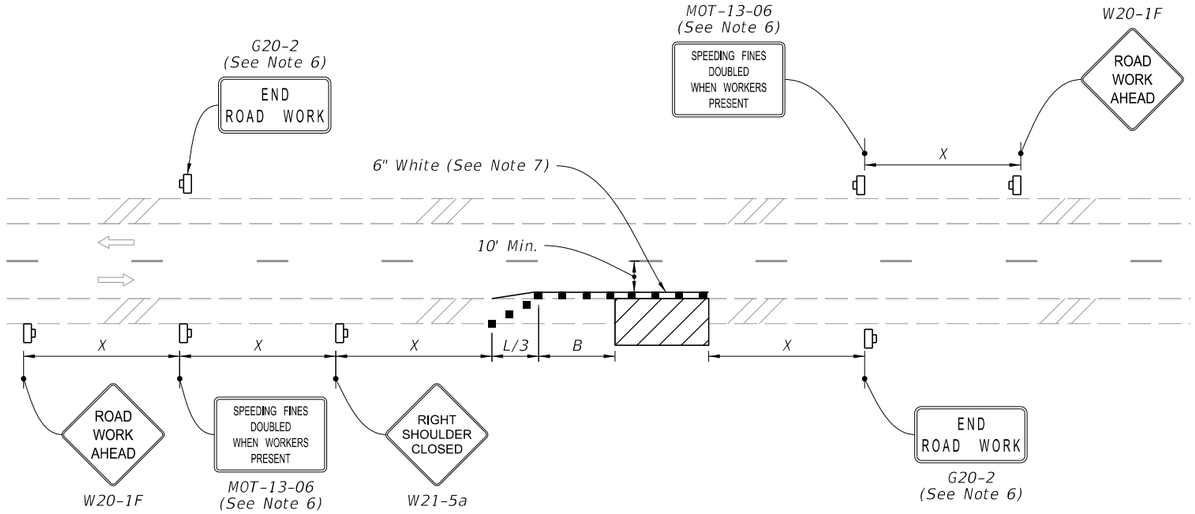
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

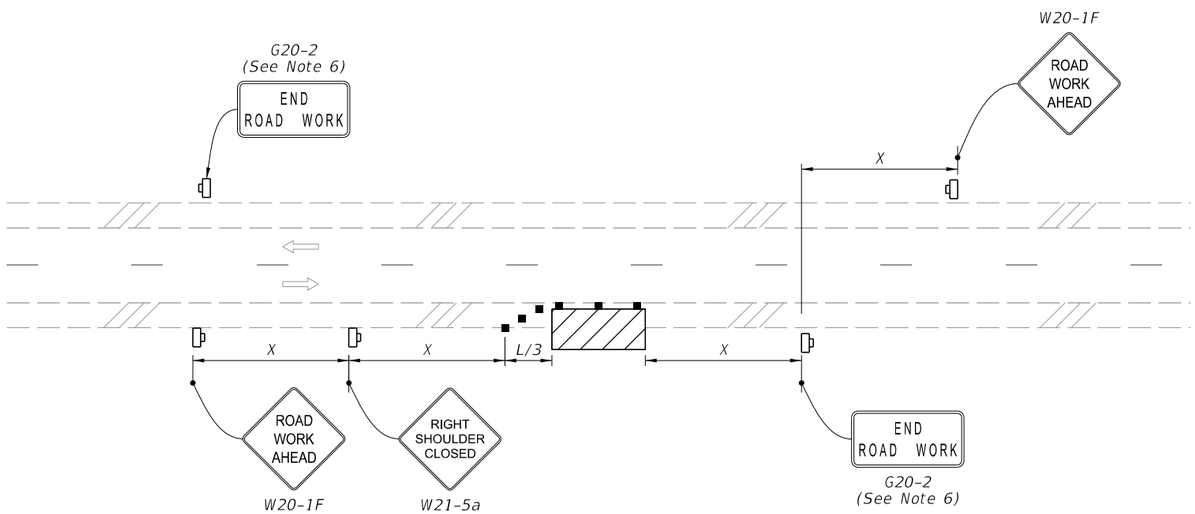
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



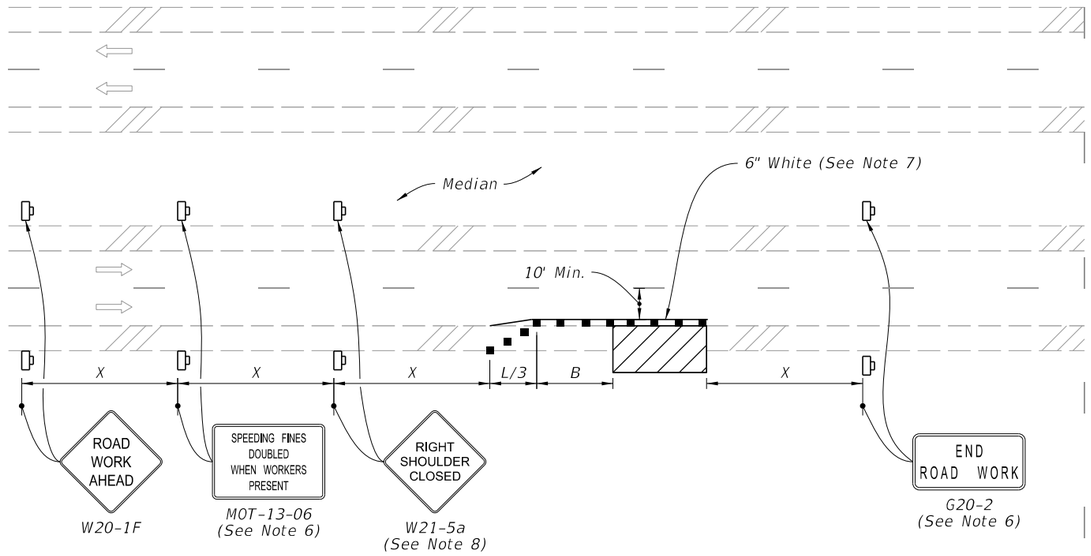
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



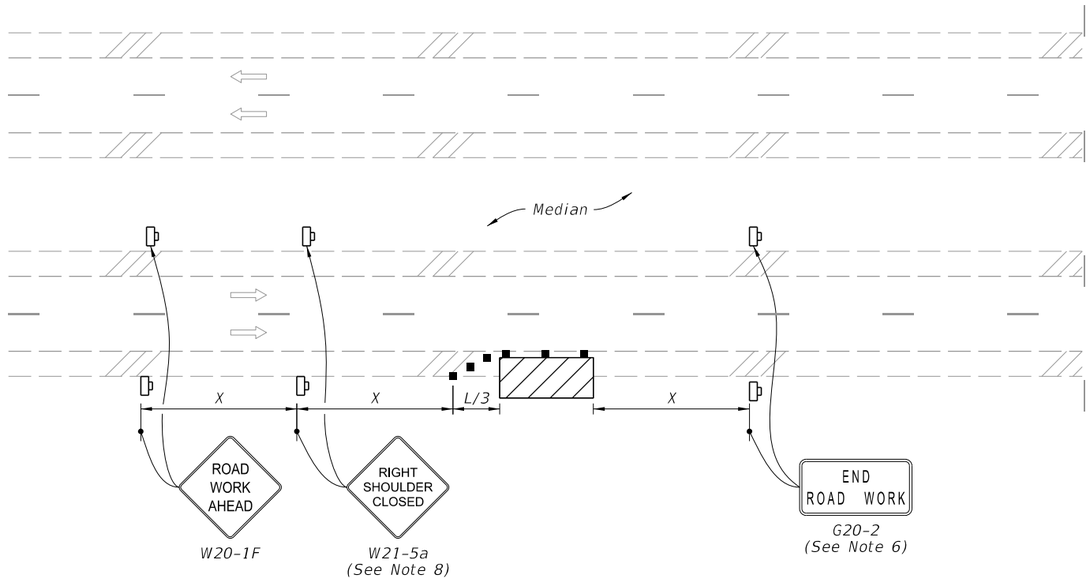
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



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MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FDOT FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

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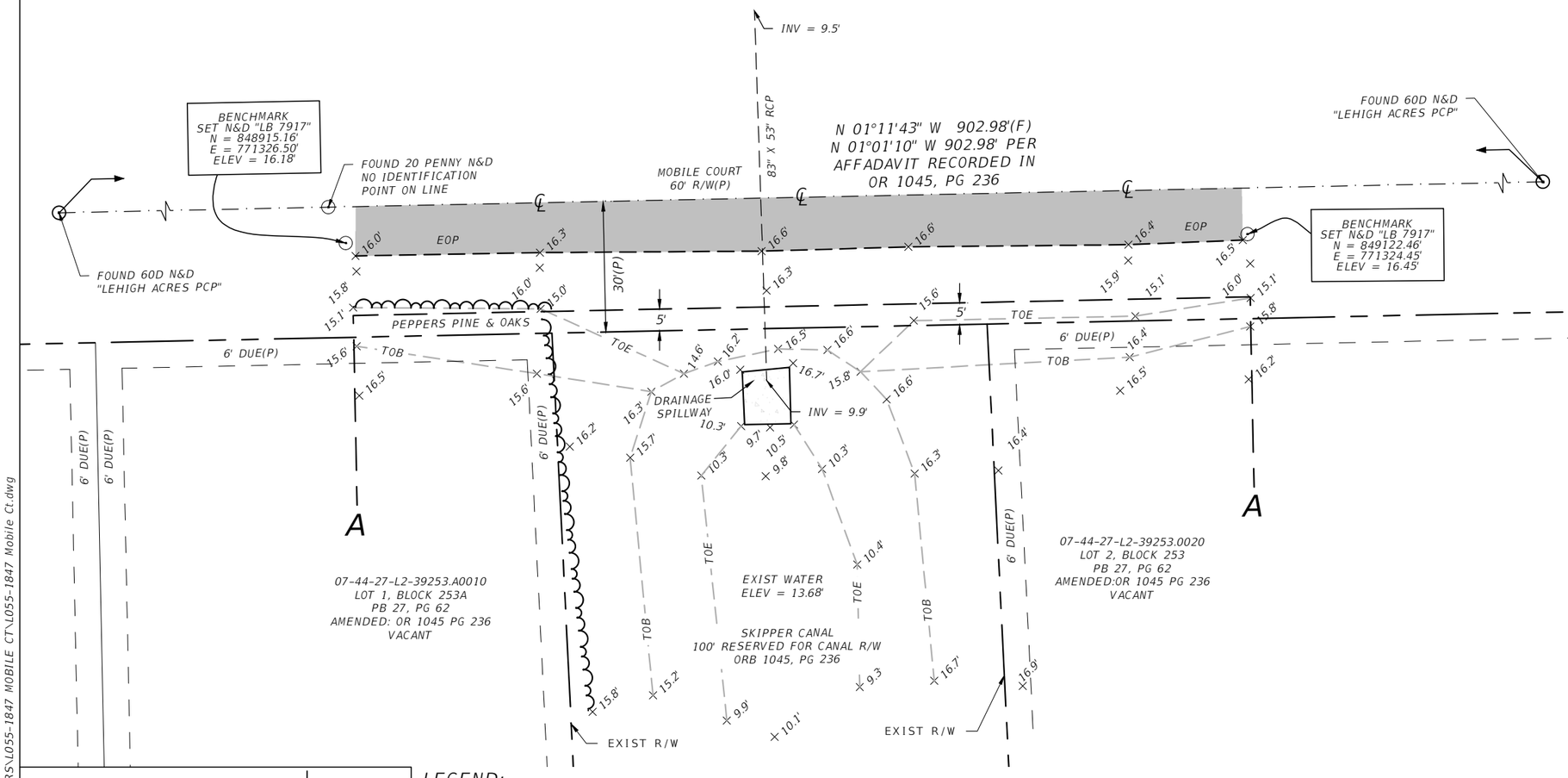

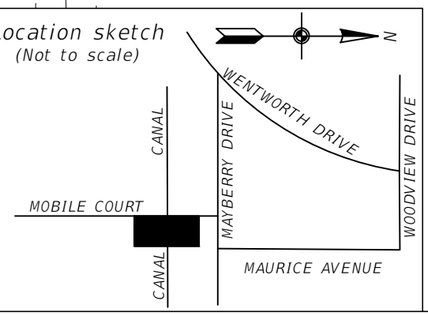

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STATE OF FLORIDA
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Mobile Court, Lehigh Acres

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5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name: L055-1847 Mobile Ct.dwg	Field book/page: 106981-3/27		Project No.: 106980001-L055
Survey date: 12/29/2025	Drawn by: KB	Checked by: TJH	Sheet No.: 01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L055-1847 MOBILE CT\L055-1847 Mobile Ct.dwg

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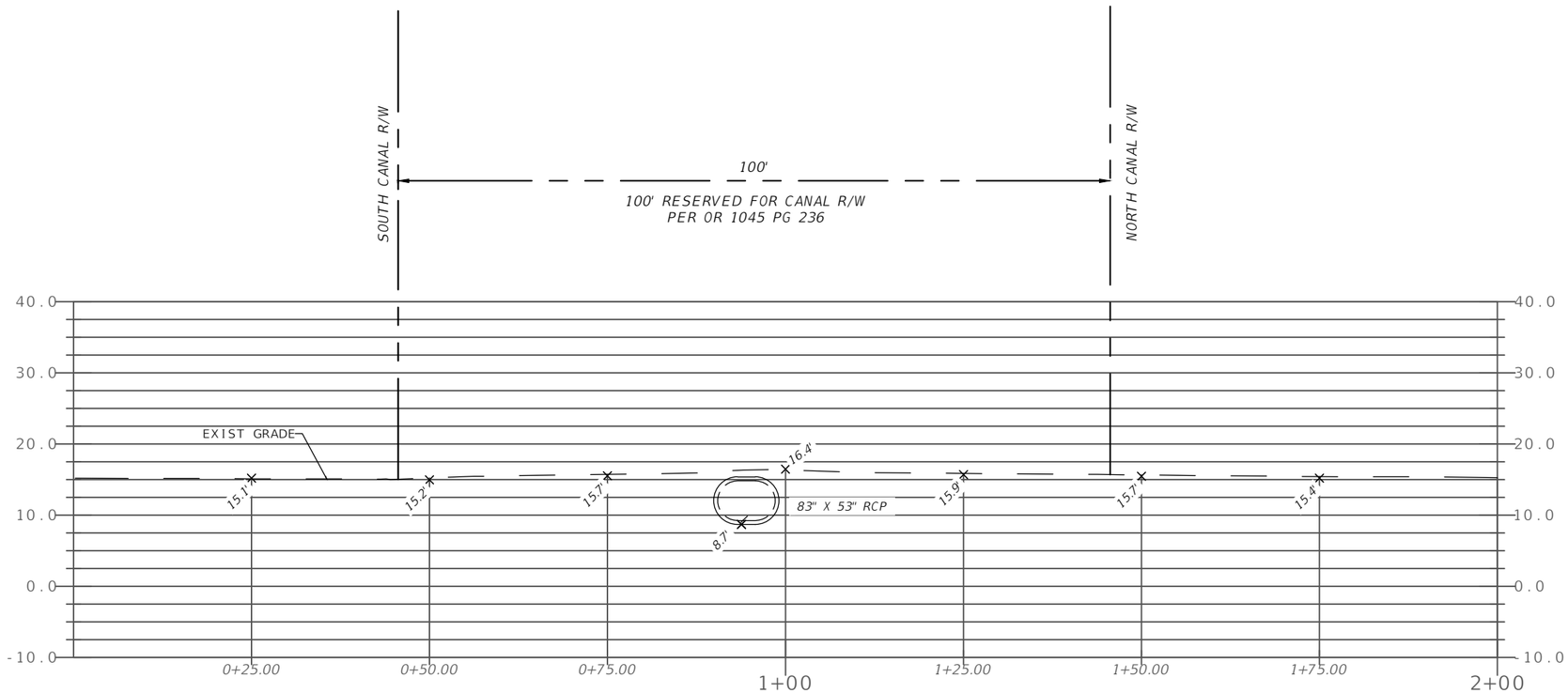

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1" = 20' VERTICAL

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Mobile Court, Lehigh Acres

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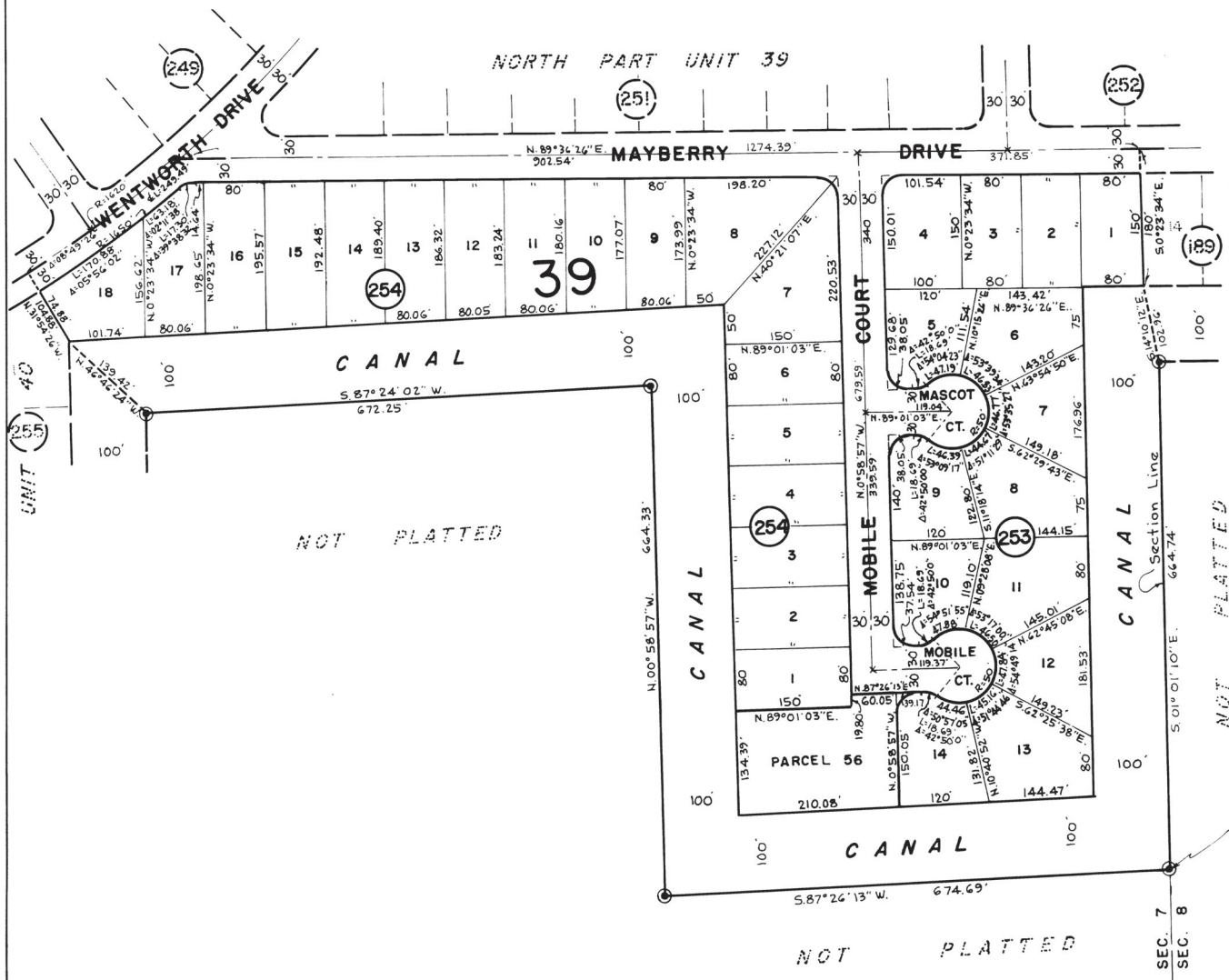
12/29/2025	KB	TJH	02 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L055-1847 MOBILE CT\L055-1847 Mobile Ct.dwg

PLAT BOOK 27 PAGE 62



PLAT OF

SOUTH PART UNIT 39 GREENBRIAR

SECTION 7, TWP. 44 S., RGE. 27 E.

A SUBDIVISION OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

100 50 0 100 200

SCALE IN FEET

All lots & parcels subject to a 6 foot Utility and Drainage Easement on both sides, front, and back.

All corner lot radii are 25 feet except as shown and the lot dimensions are to the straight line intersections, except where arc distances are shown.

PART IV #26-77

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ **Approved ___ Denied ___**

District Manager: _____ **Date**: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Buckeye Canal (47-7-1) at 1847 Mobile Ct., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under LowFlow Canal (47-3-5), along the south side of Greenbriar Blvd., between Justice Ave. & Woodburn Dr., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-78

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-78 is approved according to the plans submitted April 30th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 40' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Greenbriar Blvd.

04 - 27 - 26

26 - 78

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: WILLIAM KIEFER **PHONE #:** (515) 306 - 3403

PROJECT NAME: LE1_002_FDH_04_201 GREENBRIAR BLVD LOWFLOW CANAL

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 201 GREENBRIAR BLVD					
Mailing Address:	N/A				
City:	LEHIGH ACRES	**State:**	FLORIDA	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary*):

03 - 44 - 27 - L4 - 07039 - 0100

Brief description of proposed project:

Application for: DIRECTIONAL BORE 2x1.25" HDPE SDR 11 CONDUIT 40' IN THE LAMSID ROW OF LOWFLOW CANAL (47-3-5) ALONG GREENBRIAR BLVD

RECEIVED

APR 30 2026

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$1350.00 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	LUMOS FIBER OF FLORIDA, LLC						
Mailing Address:	**Street:**	4100 MENDENHALL OAKS PKWY, SUITE 300					
City:	HIGH POINT	**State:**	NORTH CAROLINA		**Zip:**	27265	
Phone No.	**Area Code:**	515	**Number:**	306 - 3403	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	WILLIAM.KIEFER@LUMOSFIBER.COM						

B. Relationship of applicant to property*:

Owner* ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee*** ☐

Contract Purchaser* ☐ **Other (indicate)*** ☑ UTILITY

C.

Name of Developer:	MILENIUM DIRECTIONAL DRILLING, INC						
Mailing Address:	**Street:**	5395 COGSWELL DR					
	WAYNE	**State:**	MI		**Zip:**	48184	
	Area Code:	(313)	**Number:**	326 - 2333	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	FELECAND@MILENIUMBORS.COM						

D.

Name of Authorized Agent(s):	CENTILLION SOLUTIONS						
Mailing Address:	**Street:**	6030 BETHELVIEW RD, SUITE 301					
City:	CUMMING		**State:**	GEORGIA		**Zip:**	30040
Phone No.	**Area Code:**	(480)	**Number:**	442 - 0562		**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	KYLE.PARKEY@CENTILLIONSOLUTIONS.COM						

E.

Name of Property owner:	N/A						
Mailing Address:	**Street:**						
City:			**State:**			**Zip:**	
Phone No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

		-			-			-			-					-				

PRIMARY STRAP NUMBER:

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

WILLIAM KIEFER
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 28th day of April (m), 2026 (y), by William Kiefer who is personally know to me ~~or has~~ produced _____ ~~as identification~~.

ANDREW P. STEVENSON
Notary Public, North Carolina
Guilford County
My Commission Expires
November 06, 2026

Andrew P. Stevenson
SIGNATURE OF NOTARY PUBLIC

Andrew P. Stevenson
PRINTED NAME OF NOTARY PUBL

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

ENGINEER

Name:	MCKIM & CREED						
Mailing Address:	5701 DIVISION DR, STE A						
City:	FORT MYERS	**State:**		FLORIDA		**Zip:**	33905
Business No.	**Area Code:**	(239)	**Number:**	980 - 3384		**Ext.**	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	BLAIR CONSULTING SERVICES, INC						
Mailing Address:	1428 SUNBLUSH LN						
City:	LAS VEGAS	**State:**		NV		**Zip:**	89117
Business No.	**Area Code:**	(813)	**Number:**	579 - 0128		**Ext.**	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
NA	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
NA	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
NA	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/12/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-78	Lumos Bore Under LowFlow Canal (47-3-5) At Greenbriar Blvd.	Total Fee $1,350.00
	Permit Fee: $750 + $15 x 40' R/W = $750 + $600	Due From Deposit
	Total Fee: $1,350.00	
		TOTAL $1,350.00

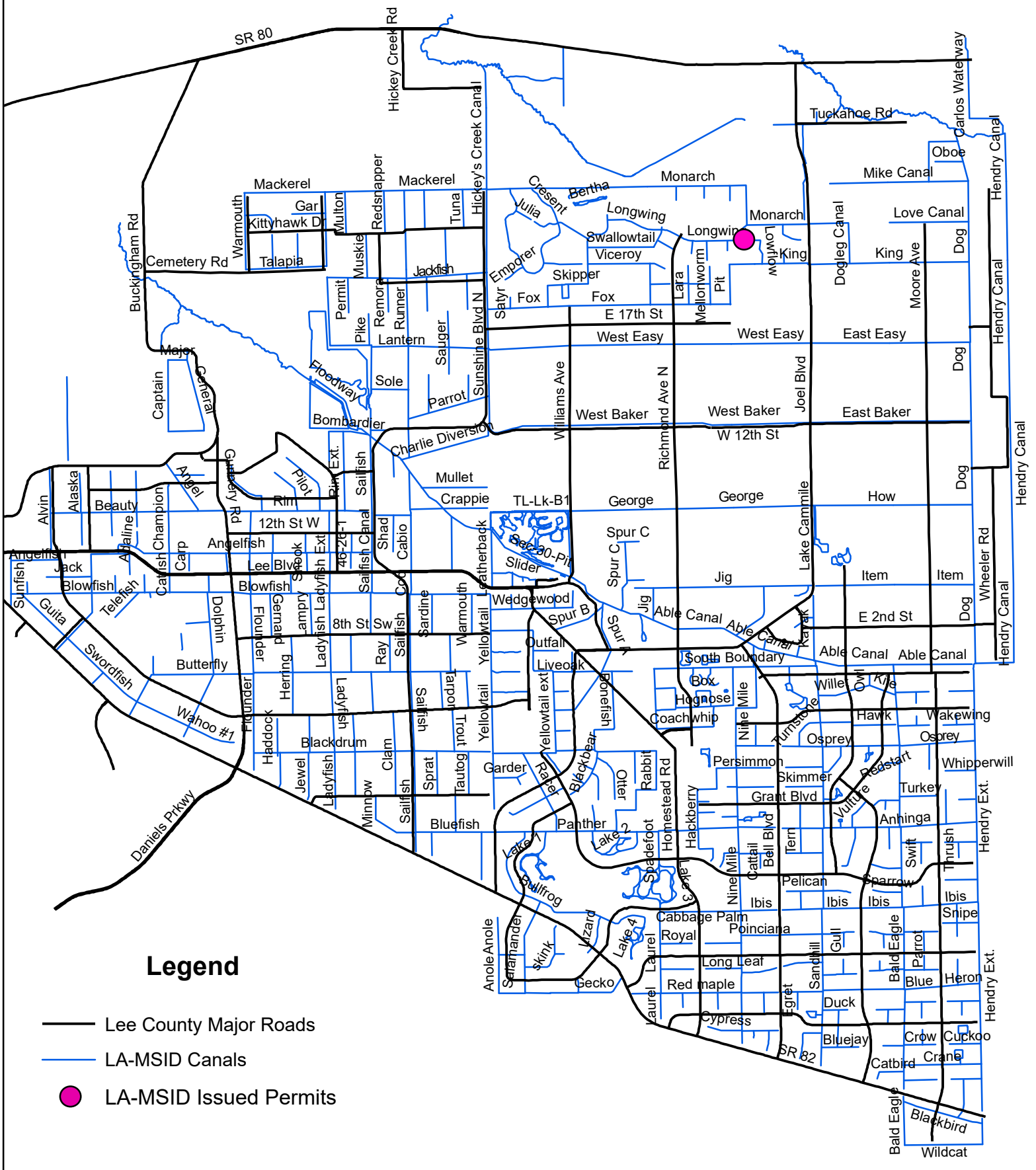
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/12/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs. Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry.**

*The CR account will need to be changed based on the customer. See accounting to setup new customer deposit accounts.

Permit # 2026-78

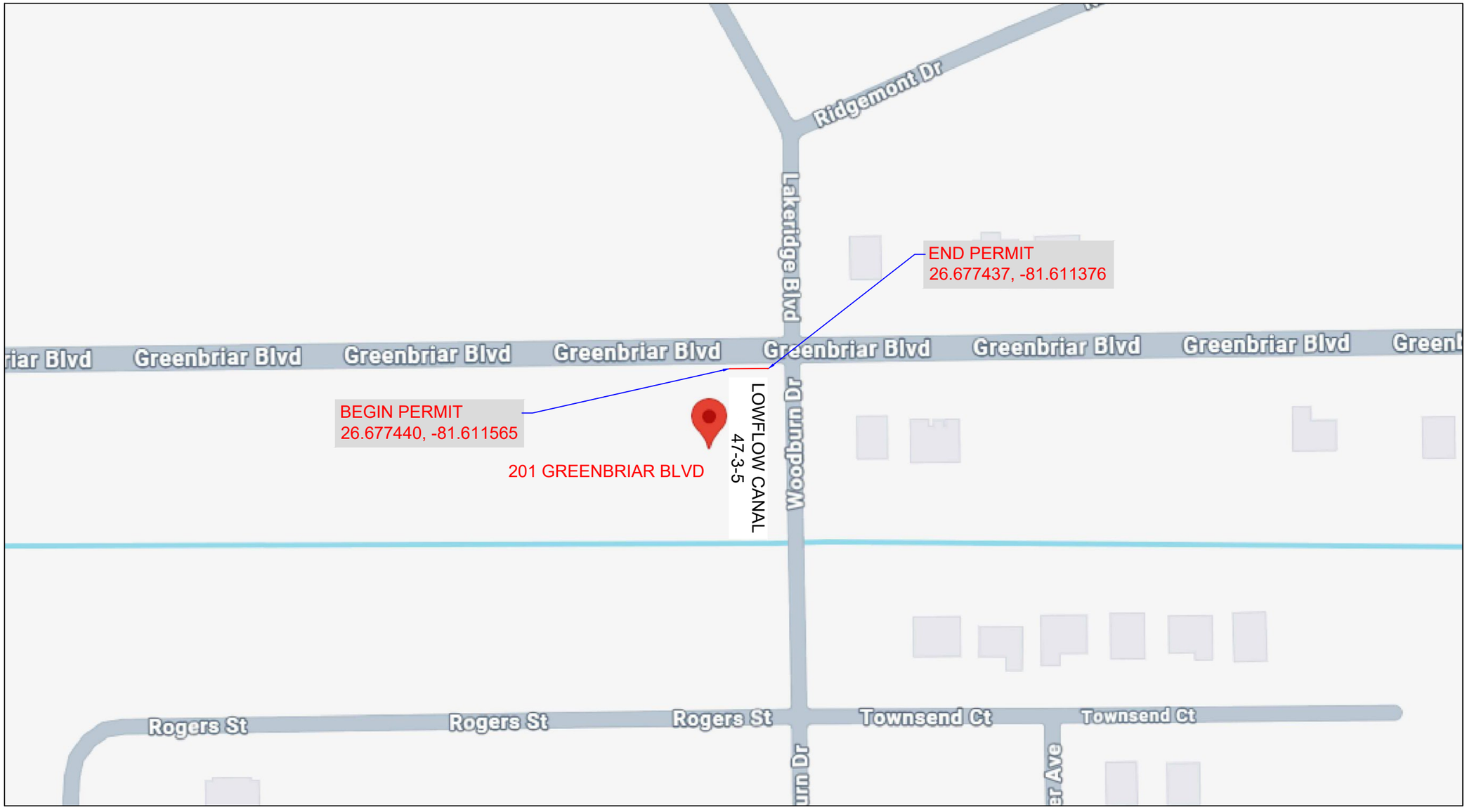


Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

LEI_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LOWFLOW CANAL

201 GREENBRIAR BLVD, LEHIGH ACRES, FL 33972 (26.677416, -81.611454)



PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 200' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 48-CT FIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
1	COVER SHEET	7	PROFILE VIEW
2	SOW AND CONTACTS	8 - 9	IMAGES
3	LEGEND	10 - 12	TYPICALS
4 - 5	GENERAL NOTES		
6	PROJECT SHEETS		

PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

Blair Consulting Services, INC
1428 Sunblush Ln, Las Vegas, NV 89117
Fabio Perassi - Project Manager
fsperassi@gmail.com

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: COVER SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LEI_002_FDH_004
DESCRIPTION:	LOWFLOW CANAL
DRAWING NAME:	LEI_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LOWFLOW CANAL
SHEET:	1 OF 12

SCOPE OF WORK

- BURIED PLACEMENT OF 200' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 48-CT MICROFIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
William Kiefer - OSP Project Engineer
William.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

ENGINEERING COMPANY

Blair Consulting Services, INC
1428 Sunblush Ln,
Las Vegas, NV 89117

PROJECT MANAGER
Fabio Perassi
813-579-0128
fsperassi@gmail.com

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

LEE COUNTY ELECTRIC CO-OP
TOM BAILEY
(239) 656-2414

LUMOS FIBER OF FLORIDA, LLC
MARLON BROWN - SR DIRECTOR
MARLON.BROWN@LUMOSFIBER.COM
(540) 278-0304

FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:
SOW & CONTACTS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LEI_002_FDH_004
DESCRIPTION:	LOWFLOW CANAL
DRAWING NAME:	LEI_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LOWFLOW CANAL
SHEET:	2 OF 12

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F	
	IN: 0
	OUT: 0

SEQUENTIAL CALLOUT

#F	
	IN: 0
	TAIL: 0

SEQUENTIAL IN TAIL CALLOUT

#F	
	TAIL: 0
	OUT: 0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.
1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: LEGEND

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LEI_002_FDH_004
DESCRIPTION:	LOWFLOW CANAL
DRAWING NAME:	LEI_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LOWFLOW CANAL
SHEET:	3 OF 12

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

PERMITTING AGENCY

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:	GENERAL NOTES
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LEI_002_FDH_004
DESCRIPTION:	LOWFLOW CANAL
DRAWING NAME:	LEI_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LOWFLOW CANAL
SHEET:	4 OF 12

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

PERMITTING AGENCY

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SHEET TITLE:

GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LEI_002_FDH_004
DESCRIPTION:	LOWFLOW CANAL
DRAWING NAME:	LEI_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LOWFLOW CANAL
SHEET:	5 OF 12

PROPOSED UTILITY MARKER 00+80

PROPOSED UTILITY MARKER 01+20

PROPOSED BORE PIT 00+00

PROPOSED BORE PIT 02+00

01+00

GREENBRIAR BLVD

WOODBURN DR

LOWFLOW CANAL
47-3-5

LONGWING CANAL
47-5-4

80'

106'

20'

39'

45'

40'

4'

6'

DIRECTIONAL BORE:
- (2) 1.25" HDPE SDR 11 CONDUIT
- 200'
- MINIMUM DEPTH = 172.8" STA– 00+80 TO 01+20

R/W EOP ESMT COM

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0 10' 20' 30' 40'

SCALE: 1"=40'

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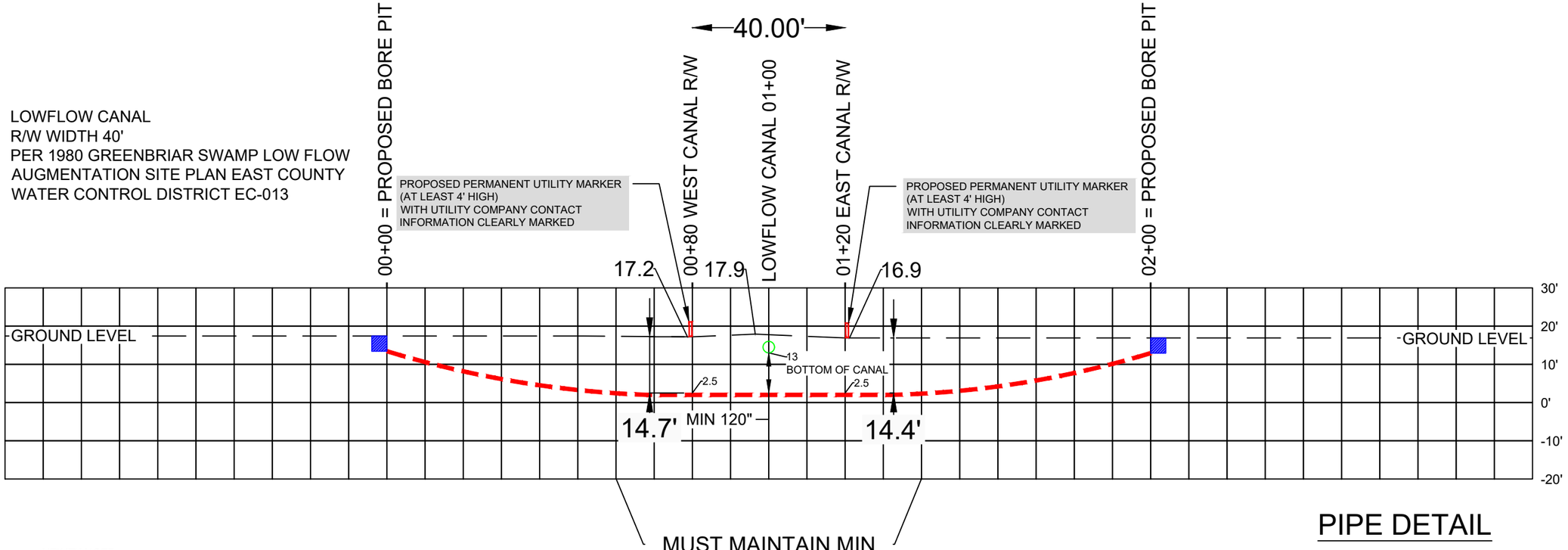
SHEET TITLE:
PROJECT SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LEI_002_FDH_004
DESCRIPTION:	LOWFLOW CANAL
DRAWING NAME:	LEI_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LOWFLOW CANAL
SHEET:	6 OF 12

SUB-GRADE VERTICAL PROFILE VIEW
GREENBRIAR BLVD
LOOKING NORTH

LOWFLOW CANAL
R/W WIDTH 40'
PER 1980 GREENBRIAR SWAMP LOW FLOW AUGMENTATION SITE PLAN EAST COUNTY WATER CONTROL DISTRICT EC-013



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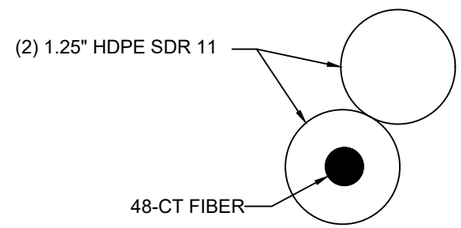
PIPE DETAIL



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811 Know what's below. Call before you dig.

0 10' 20' 30'
SCALE: 1"=30'

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SHEET TITLE:	PROFILE VIEW
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LEI_002_FDH_004
DESCRIPTION:	LOWFLOW CANAL
DRAWING NAME:	LEI_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LOWFLOW CANAL
SHEET:	7 OF 12

STREET LEVEL VIEW
STA 00+80
FACING WEST

04/25/2026 02:55PM
26.677440, -81.611565
201 GREENBRIAR BLVD
LEHIGH ACRES, FL 33972

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SHEET TITLE: IMAGES

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PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LEI_002_FDH_004
DESCRIPTION:	LOWFLOW CANAL
DRAWING NAME:	LEI_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LOWFLOW CANAL
SHEET:	8 OF 12

STREET LEVEL VIEW
STA 01+20
FACING EAST

04/25/2026 02:54PM
26.677437, -81.611376
201 GREENBRIAR BLVD
LEHIGH ACRES, FL 33972

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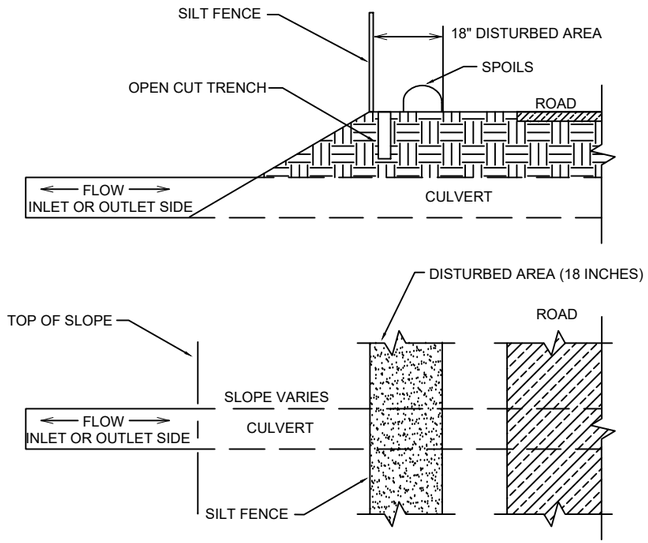
SHEET:	9 OF 12

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

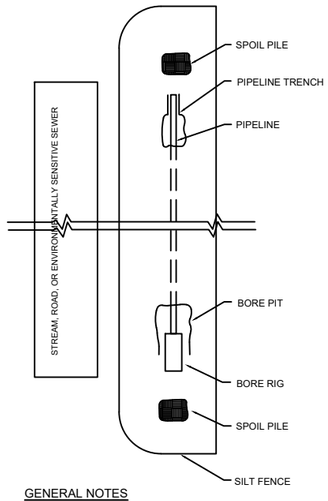
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

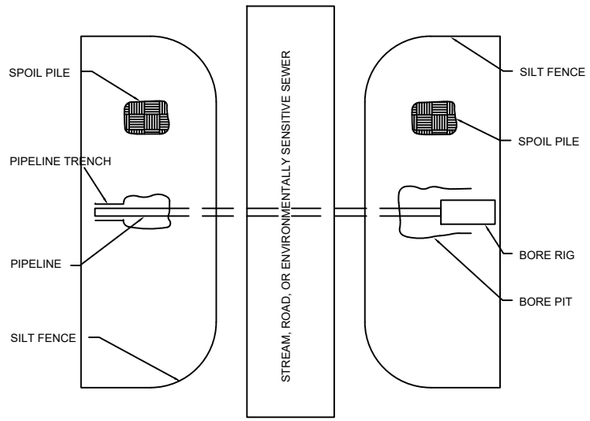


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

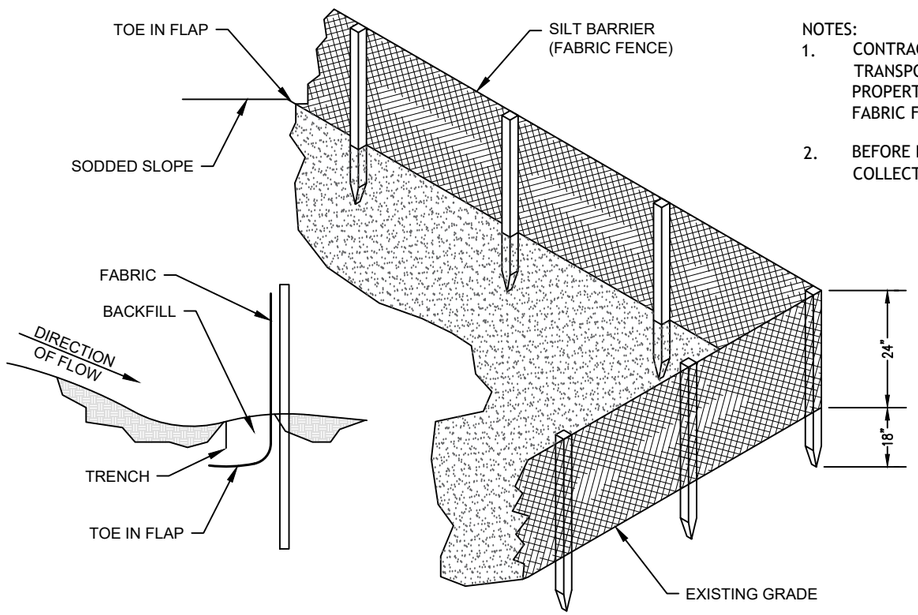
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

PERMITTING AGENCY

LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
----	----	----	----
----	----	----	----

SHEET TITLE: TYPICALS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LEI_002_FDH_004
DESCRIPTION:	LOWFLOW CANAL
DRAWING NAME:	LEI_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LOWFLOW CANAL
SHEET:	10 OF 12

TYPICALS

PERMITTING AGENCY
LA - MSID

lumos

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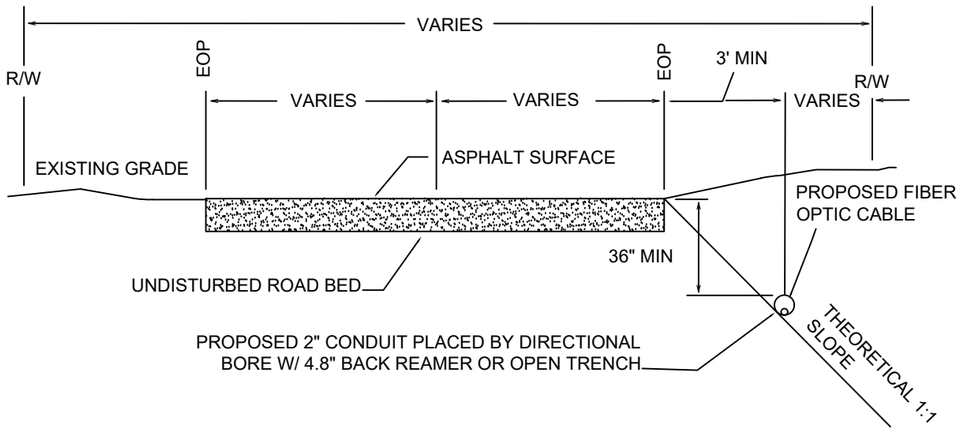
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

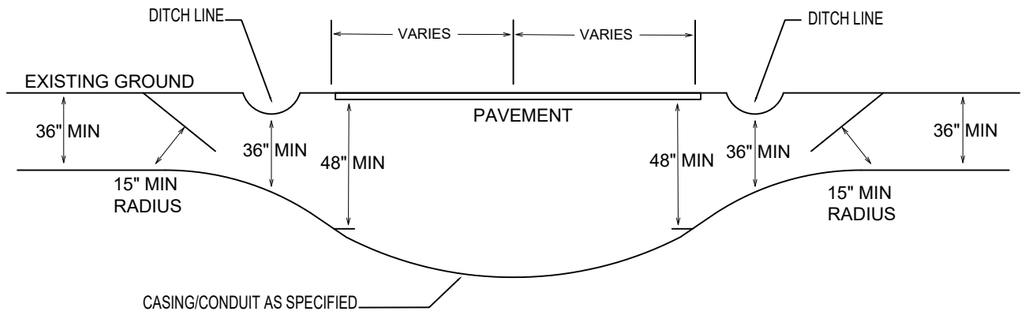
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



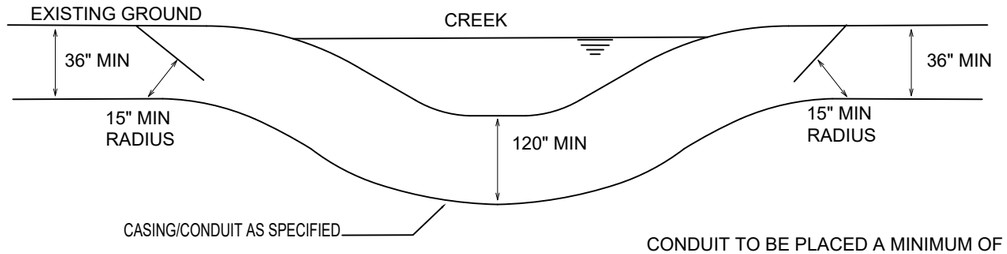
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

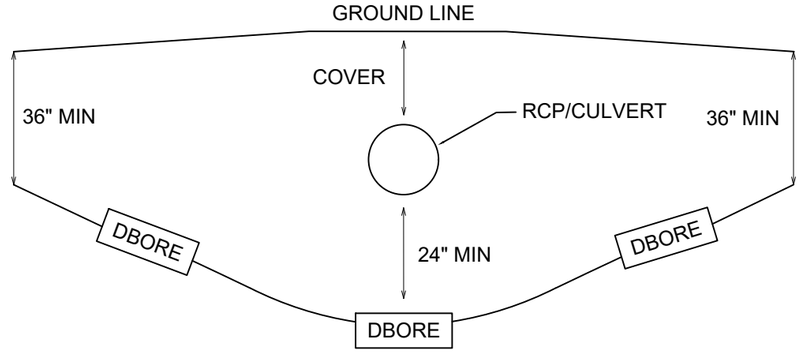
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 10 FEET BELOW CREEK BED

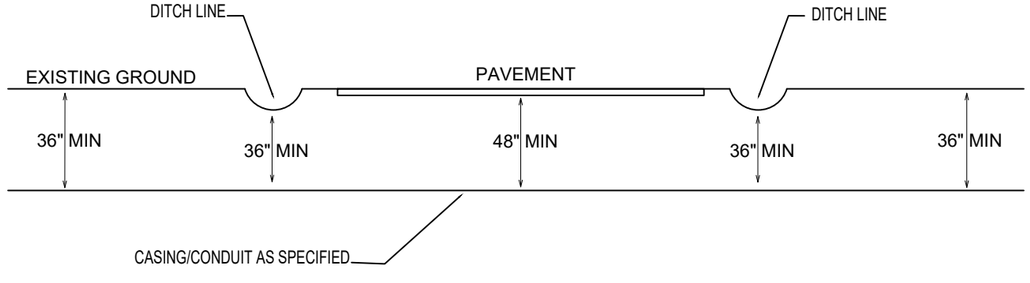
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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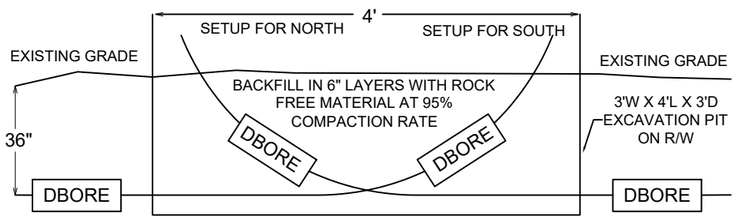
DRAWING NAME:	LEI_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LOWFLOW CANAL
SHEET:	11 OF 12

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

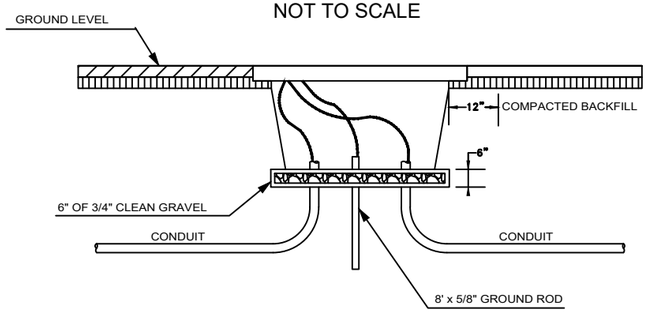


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

PULL BOX HANDHOLE

NOT TO SCALE



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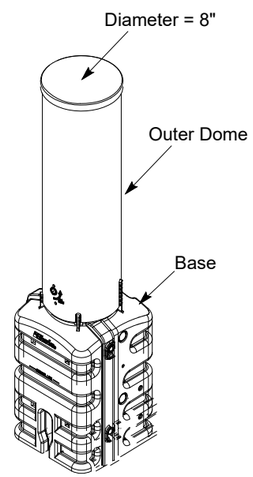
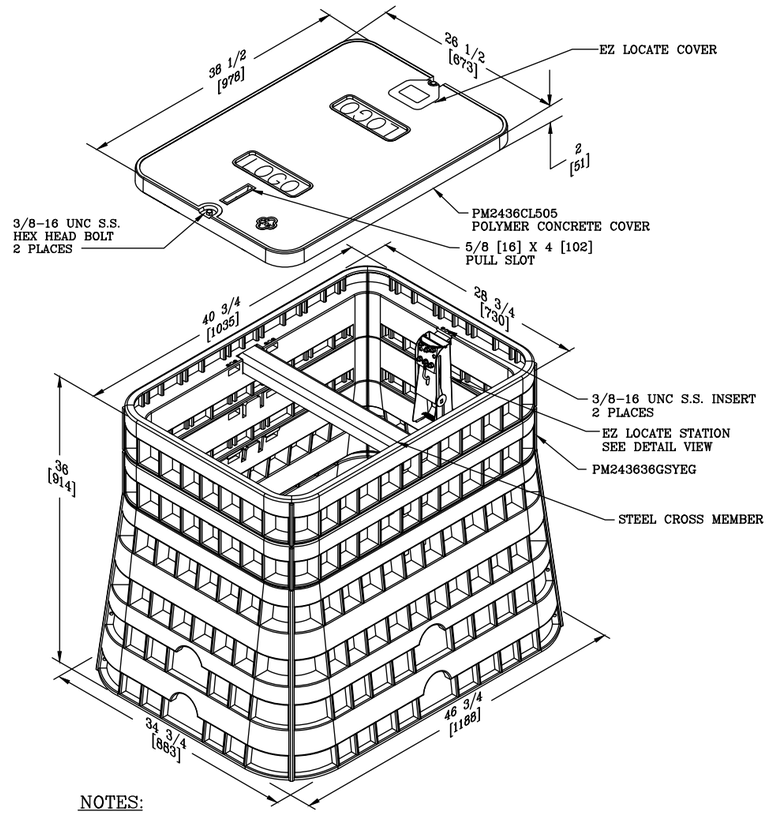
BDO204-EG

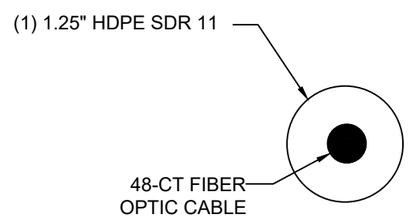




NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

PIPE DETAIL



PERMITTING AGENCY

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SHEET:	12 OF 12

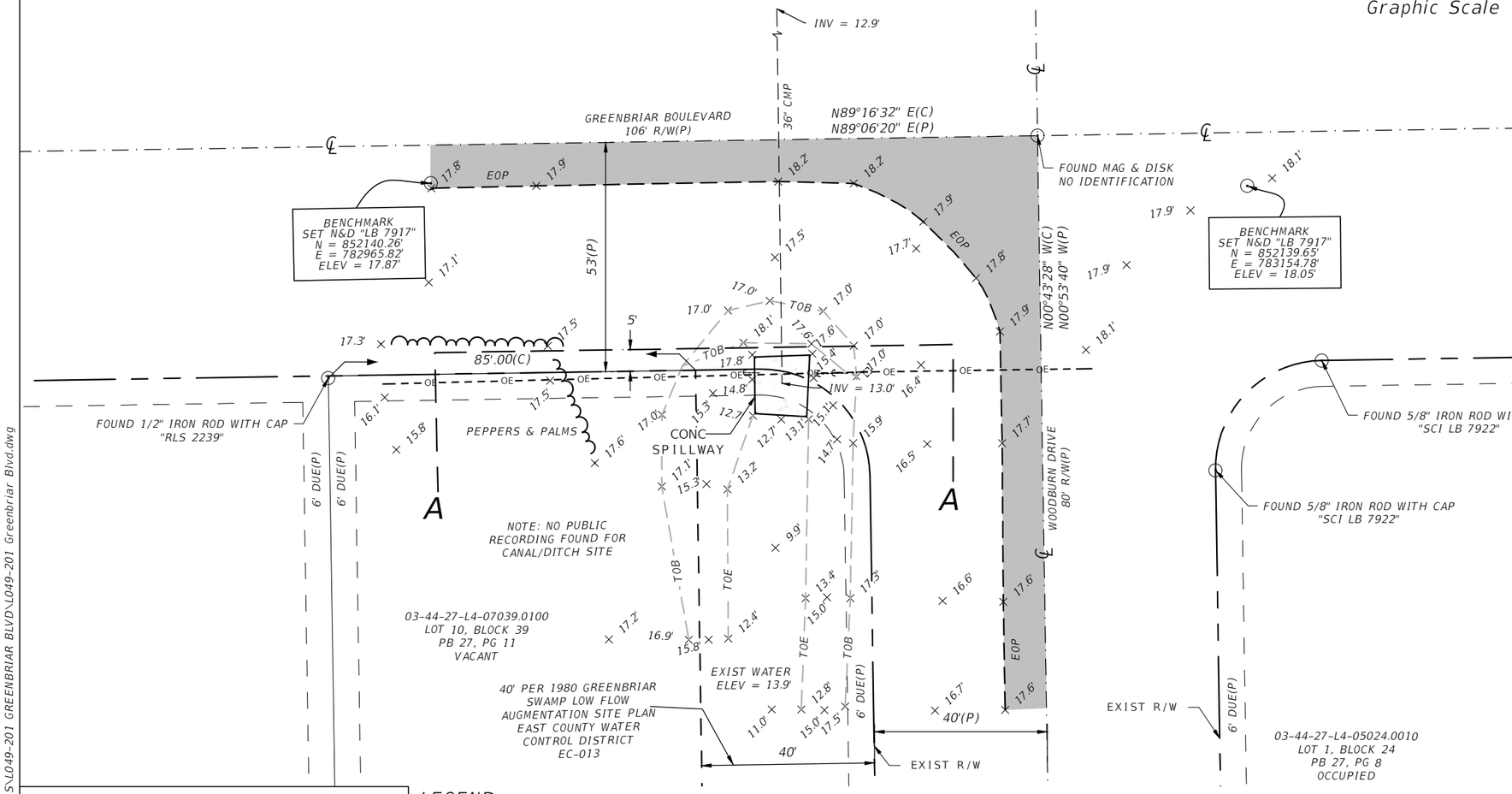
Topographic Survey of a Subject Project Site

lying within

Section 3, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



N

0 15' 30'

(1" = 30')

Graphic Scale

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Survey based on the plat of North Part Unit 7 Greenbriar as recorded in Plat Book 27 Page 11, Public Records of Lee County, Florida and existing monumentation.

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Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 12/17/2025

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

Taylor Henninge 2026.04.03 15:16:21-04'00'

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

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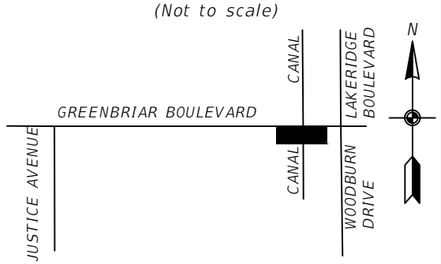
Location sketch
(Not to scale)



LEGEND:

(P)	= PER PLAT	N&D	= NAIL AND DISK
(C)	= CALCULATED	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
CB	= CATCH BASIN	OR	= OFFICIAL RECORDS BOOK
Δ	= DELTA ANGLE	PB	= PLAT BOOK
℄	= CENTER LINE	PG	= PAGE
CONC	= CONCRETE	R/W	= RIGHT OF WAY
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FIRC	= FOUND IRON ROD AND CAP	TWP	= TOWNSHIP
INST#	= INSTRUMENT NUMBER	(TYP)	= TYPICAL
INV	= INVERT ELEVATION		

⊙ = FOUND MONUMENT

OE = OVERHEAD UTILITY LINE

+20.0 = SPOT ELEVATION

◇ = ELECTRICAL POLE

⟶ = GUY ANCHOR

Greenbriar Boulevard, Lehigh Acres

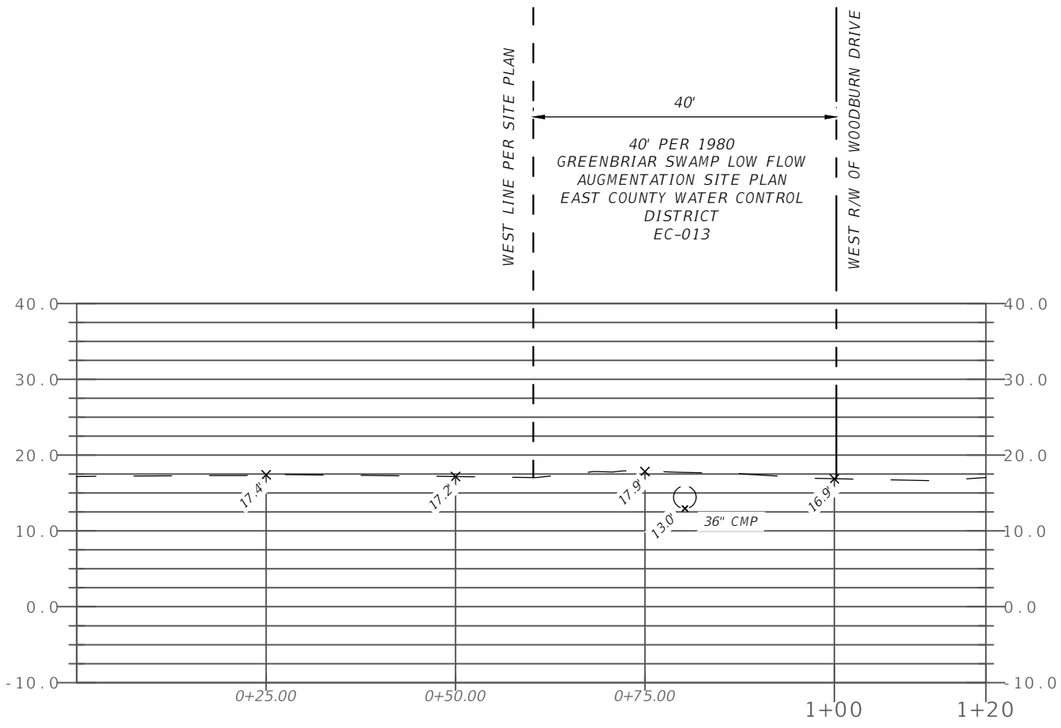
TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name: L049-201 Greenbriar Blvd.dwg	Field book/page: 106981-3/23		Project No.: 106980001-L049
Survey date: 12/17/2025	Drawn by: KB	Checked by: TJH	Sheet No.: 01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L049-201 GREENBRIAR BLVD\L049-201 Greenbriar Blvd.dwg

Topographic Survey of a
Subject Project Site
Section 3, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Greenbriar Boulevard, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
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LB 7917
www.mckimcreed.com

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L049-201 Greenbriar Blvd.dwg	106981-3/23	106980001-L049

Survey date:	Drawn by:	Checked by:	Sheet No.:
12/17/2025	KB	TJH	02 OF 02

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NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

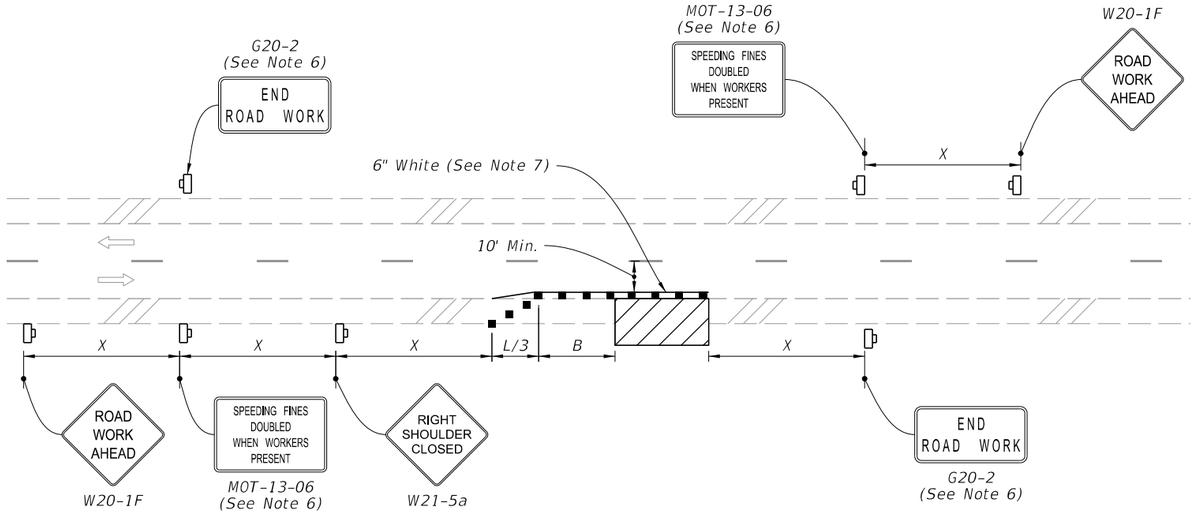
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

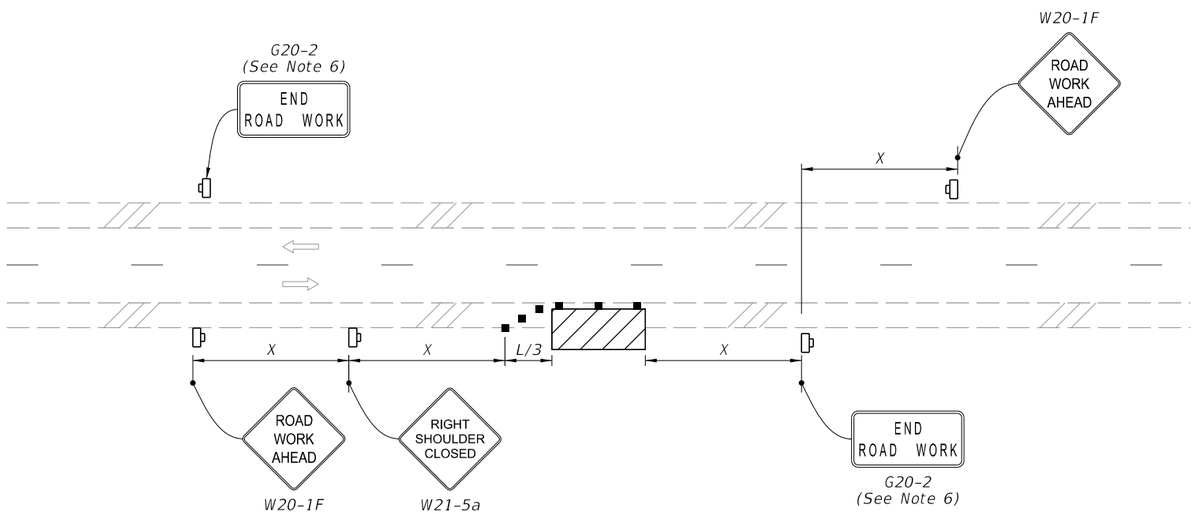
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



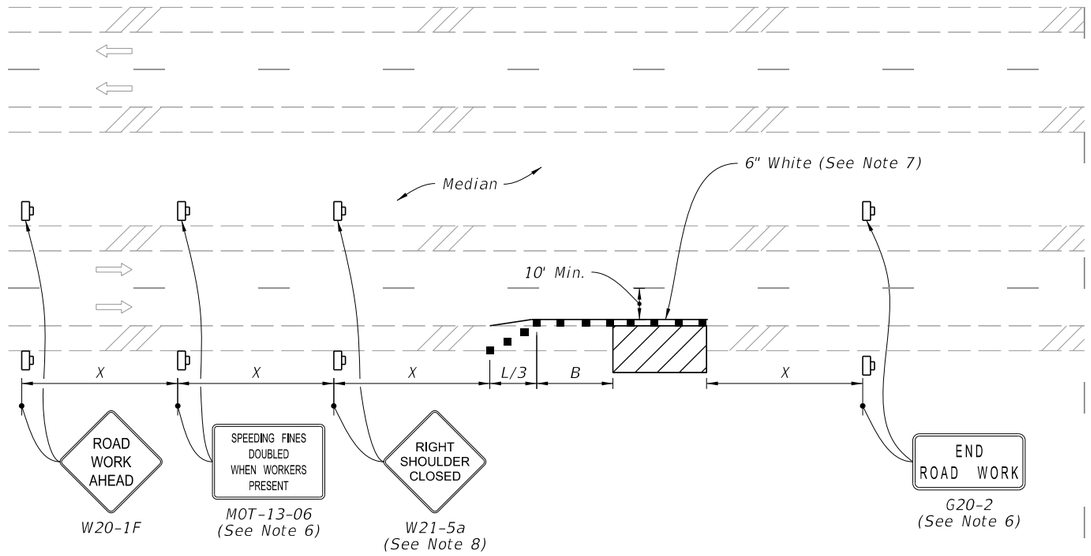
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



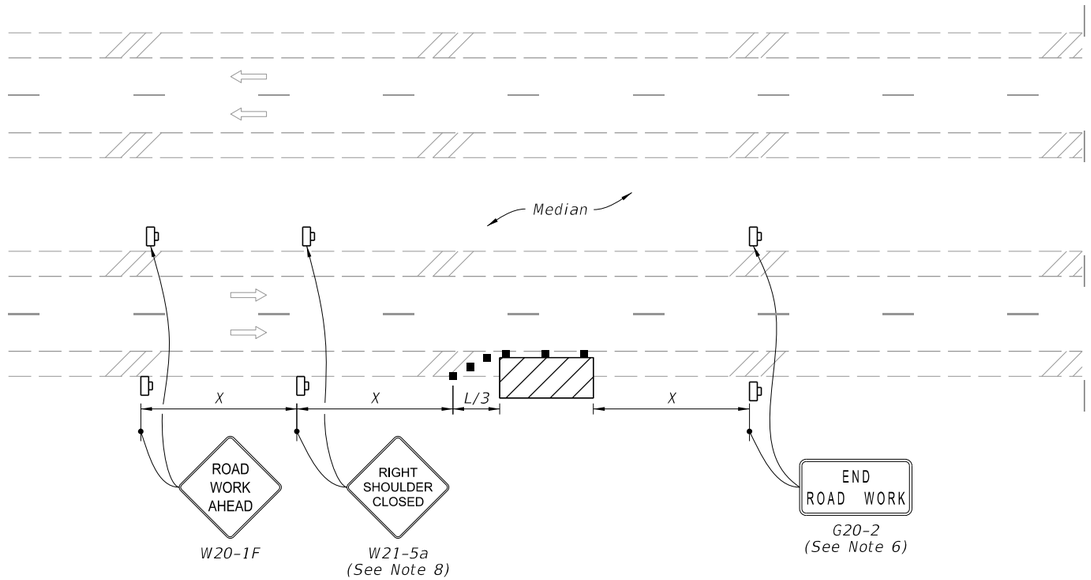
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



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- Work Zone Sign
- Lane Identification and Direction of Traffic

MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FDOT FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

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lying within

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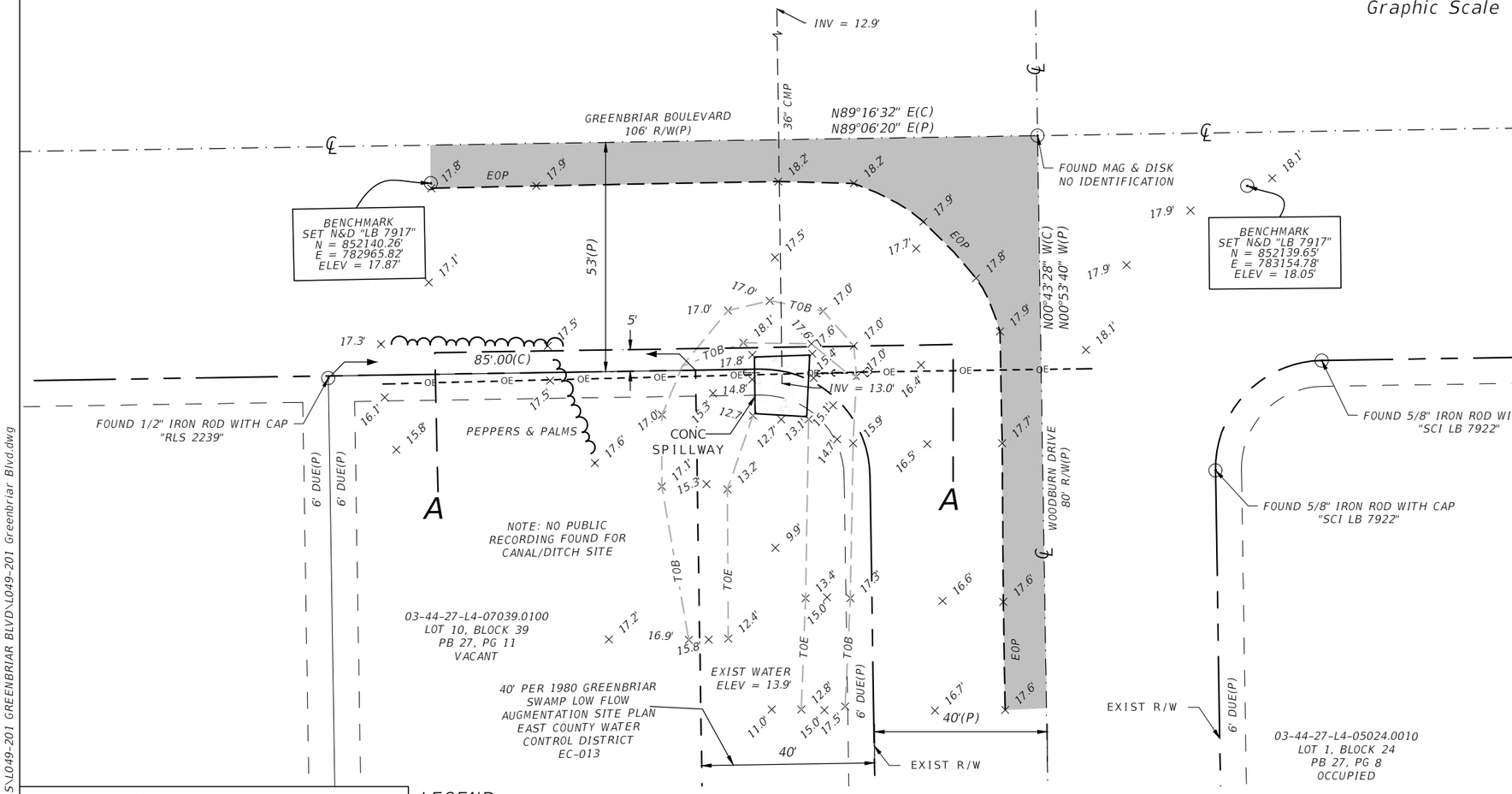
Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



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Greenbriar Boulevard, Lehigh Acres

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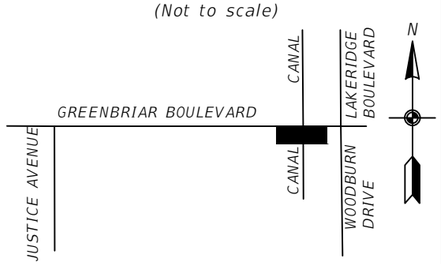

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TOPOGRAPHIC SURVEY-PLAN VIEW

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Survey date: 12/17/2025	Drawn by: KB	Checked by: TJH	Sheet No.: 01 OF 02

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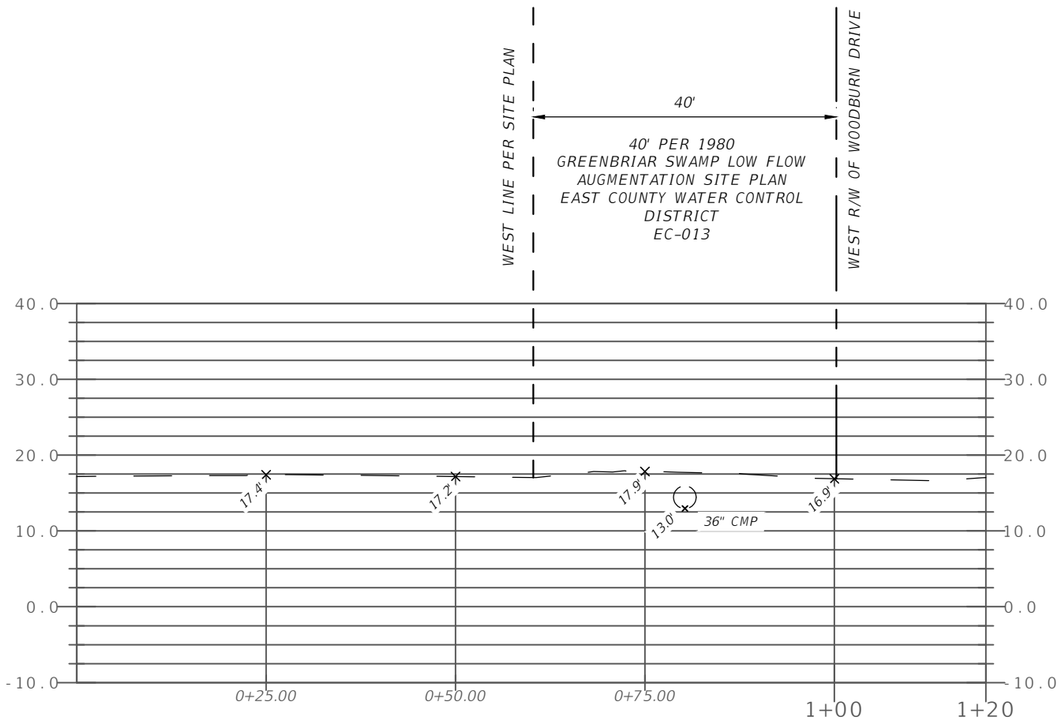
Topographic Survey of a
Subject Project Site
Section 3, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Greenbriar Boulevard, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L049-201 Greenbriar Blvd.dwg	106981-3/23	106980001-L049

Survey date:	Drawn by:	Checked by:	Sheet No.:
12/17/2025	KB	TJH	02 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L049-201 GREENBRIAR BLVD\L049-201 Greenbriar Blvd.dwg

PLAT BOOK 27 PAGE 11

PART IV #26-78

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ **Approved ___ Denied ___**

District Manager: _____ **Date**: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Low Flow Canal (47-3-5) at 201 Greenbriar Blvd., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Longwing Canal (47-3-7), along the east side of Woodburn Drive, between Greenbriar Blvd. & Townsend Ct., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-79

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-79 is approved according to the plans submitted April 30th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 80' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Woodburn Drive.

04 - 28 - 26
26 - 79

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: WILLIAM KIEFER **PHONE #:** (515) 306 - 3403

PROJECT NAME: LE1_002_FDH_004 200 ROGERS ST - LONGWING CANAL

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 200 ROGERS ST					
Mailing Address:	N/A				
City:	LEHIGH ACRES	**State:**	FLORIDA	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary*):

0	3	-	4	4	-	2	7	-	L	4	-	0	7	0	3	6	-	0	0	1	0

Brief description of proposed project:

Application for: DIRECTIONAL BORE 2x1.25" HDPE SDR 11 CONDUIT 80' IN THE LAMSID ROW OF WEST LONGWING CANAL (47-4-2) ALONG WOODBURN DR

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$1950.00 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	LUMOS FIBER OF FLORIDA, LLC				
Mailing Address:	**Street:**	4100 MENDENHALL OAKS PKWY, SUITE 300			
City:	HIGH POINT	**State:**	NORTH CAROLINA	**Zip:**	27265
Phone No.	**Area Code:** 515	**Number:**	306 - 3403	**Ext.**	
Fax No.	**Area Code:**	**Number:**	-		
E-mail Address:	WILLIAM.KIEFER@LUMOSFIBER.COM				

B. Relationship of applicant to property*:

Owner* ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee*** ☐

Contract Purchaser* ☐ **Other (indicate)*** ☑ UTILITY

C.

Name of Developer:	MILENIUM DIRECTIONAL DRILLING, INC				
Mailing Address:	**Street:**	5395 COGSWELL DR			
WAYNE		**State:**	MI	**Zip:**	48184
Area Code:	(313)	**Number:**	326 - 2333	**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-	
E-mail Address:	FELECAND@MILENIUMBORS.COM				

D.

Name of Authorized Agent(s):	CENTILLION SOLUTIONS						
Mailing Address:	Street:	6030 BETHELVIEW RD, SUITE 301					
City:	CUMMING		State:	GEORGIA		Zip:	30040
Phone No.	Area Code:	(480)	Number:	442 - 0562		Ext.	
Fax No.	Area Code:	( )	Number:	-			
E-mail Address:	KYLE.PARKEY@CENTILLIONSOLUTIONS.COM						

E.

Name of Property owner:	N/A						
Mailing Address:	Street:						
City:			State:			Zip:	
Phone No.	Area Code:	( )	Number:	-		Ext.	
Fax No.	Area Code:	( )	Number:	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

☐☐-☐☐-☐☐-☐☐-☐☐☐☐-☐☐☐

PRIMARY STRAP NUMBER:

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

WILLIAM KIEFER
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 29th day of April (m), 2026(y), by William Kiefer who is personally know to me or has produced FDL as identification.

TANIA MARIE JOY BROWN
Notary Public - State of Florida
Commission # HH 473129
My Comm. Expires Dec 14, 2027
Bonded through National Notary Assn.

Tania Brown
SIGNATURE OF NOTARY PUBLIC

Tania Brown
PRINTED NAME OF NOTARY PUBL

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		State:				Zip:	
Business No.	Area Code:	( )	Number:	-		Ext.	
Other Contact:							

ENGINEER

Name:	MCKIM & CREED						
Mailing Address:	5701 DIVISION DR, STE A						
City:	FORT MYERS	State:		FLORIDA		Zip:	33905
Business No.	Area Code:	(239)	Number:	980 - 3384		Ext.	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	BLAIR CONSULTING SERVICES, INC						
Mailing Address:	1428 SUNBLUSH LN						
City:	LAS VEGAS	State:		NV		Zip:	89117
Business No.	Area Code:	(813)	Number:	579 - 0128		Ext.	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES SUB'D	NO. OF COPIES REQ'D	SUBMITTAL DOCUMENT
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
NA	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
NA	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
NA	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/12/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-79	Lumos Bore Under Longwing Canal (47-3-7) At Woodburn Drive	Total Fee $1,950.00
	Permit Fee: $750 + $15 x 80' R/W = $750 + $1200	Due From Deposit
	Total Fee: $1,950.00	
		TOTAL $1,950.00

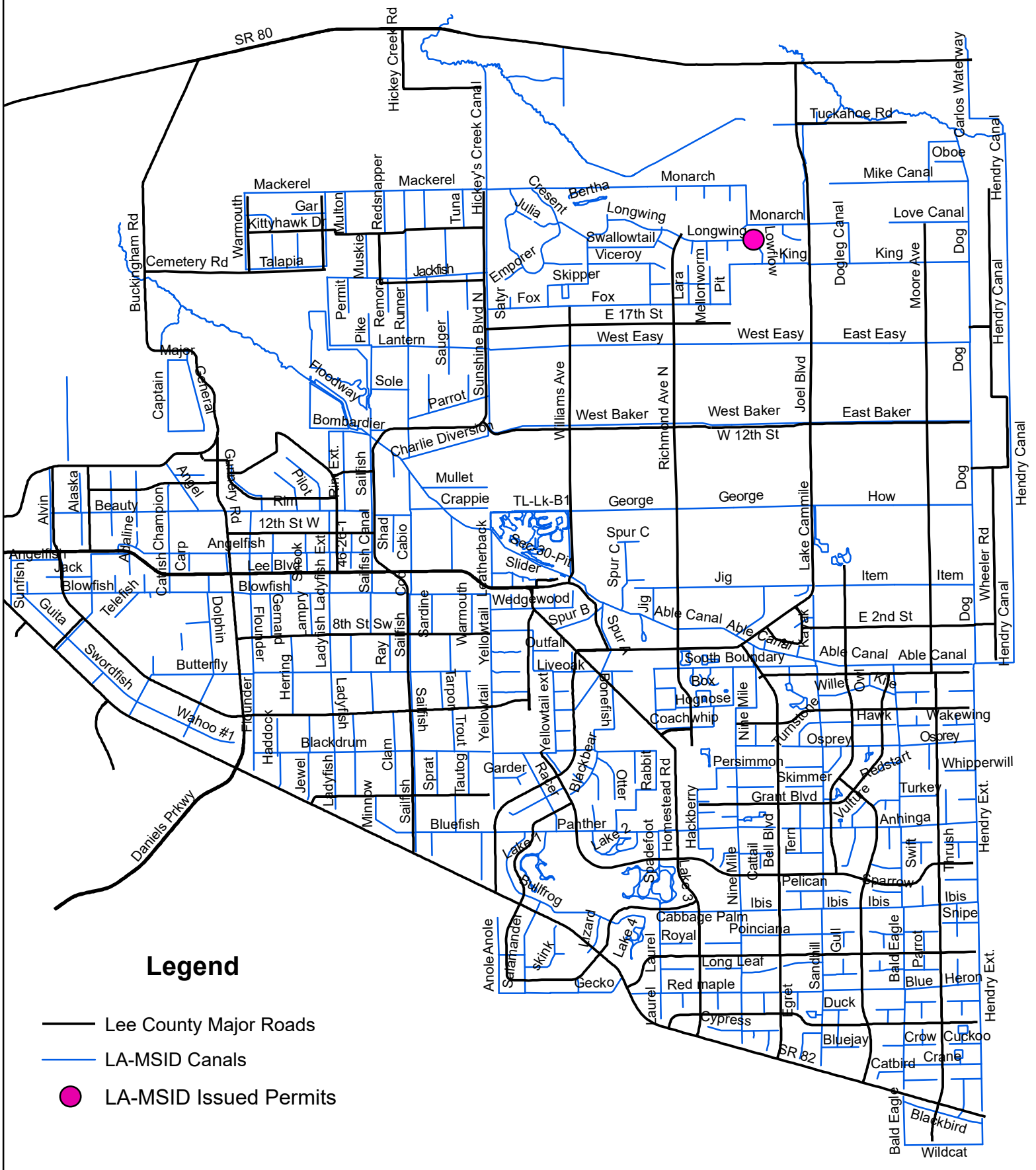
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/12/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry**.

*The CR account will need to be changed based on the customer See accounting to setup new customer deposit accounts

Permit # 2026-79



Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

LE1_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL

200 ROGERS ST, LEHIGH ACRES, FL 33972 (26.676870, -81.611154)

PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 240' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 144-CT FIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
1	COVER SHEET	7	PROFILE VIEW
2	SOW AND CONTACTS	8 - 9	IMAGES
3	LEGEND	10 - 12	TYPICALS
4 - 5	GENERAL NOTES		
6	PROJECT SHEETS		

PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

Blair Consulting Services, INC
1428 Sunblush Ln, Las Vegas, NV 89117
Fabio Perassi - Project Manager
fsperassi@gmail.com

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:	COVER SHEET
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_004
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	1 OF 12

SCOPE OF WORK

- BURIED PLACEMENT OF 240' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 144-CT MICROFIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
William Kiefer - OSP Project Engineer
William.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

ENGINEERING COMPANY

Blair Consulting Services, INC
1428 Sunblush Ln,
Las Vegas, NV 89117

PROJECT MANAGER
Fabio Perassi
813-579-0128
fsperassi@gmail.com

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

LEE COUNTY ELECTRIC CO-OP
TOM BAILEY
(239) 656-2414

LUMOS FIBER OF FLORIDA, LLC
MARLON BROWN - SR DIRECTOR
MARLON.BROWN@LUMOSFIBER.COM
(540) 278-0304

FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: SOW & CONTACTS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_004
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	2 OF 12

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F	
	IN: 0
	OUT: 0

SEQUENTIAL CALLOUT

#F	
	IN: 0
	TAIL: 0

SEQUENTIAL IN TAIL CALLOUT

#F	
	TAIL: 0
	OUT: 0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: LEGEND

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_004
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	3 OF 12

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

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SHEET TITLE: GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_004
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

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SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

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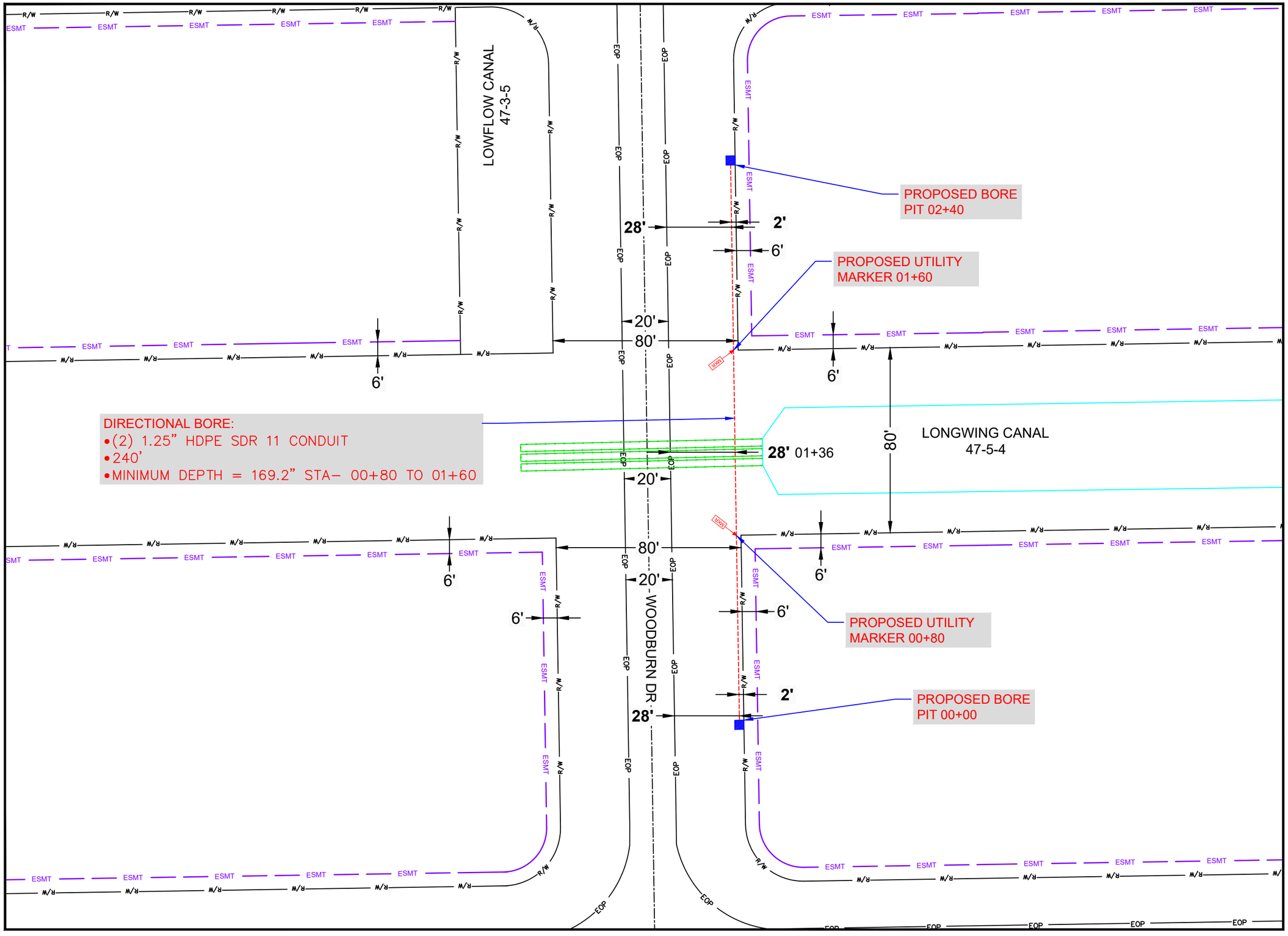
SHEET TITLE:
GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_004
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	5 OF 12



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0 10' 20' 30' 40'
SCALE: 1"=40'

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REVISION DATA

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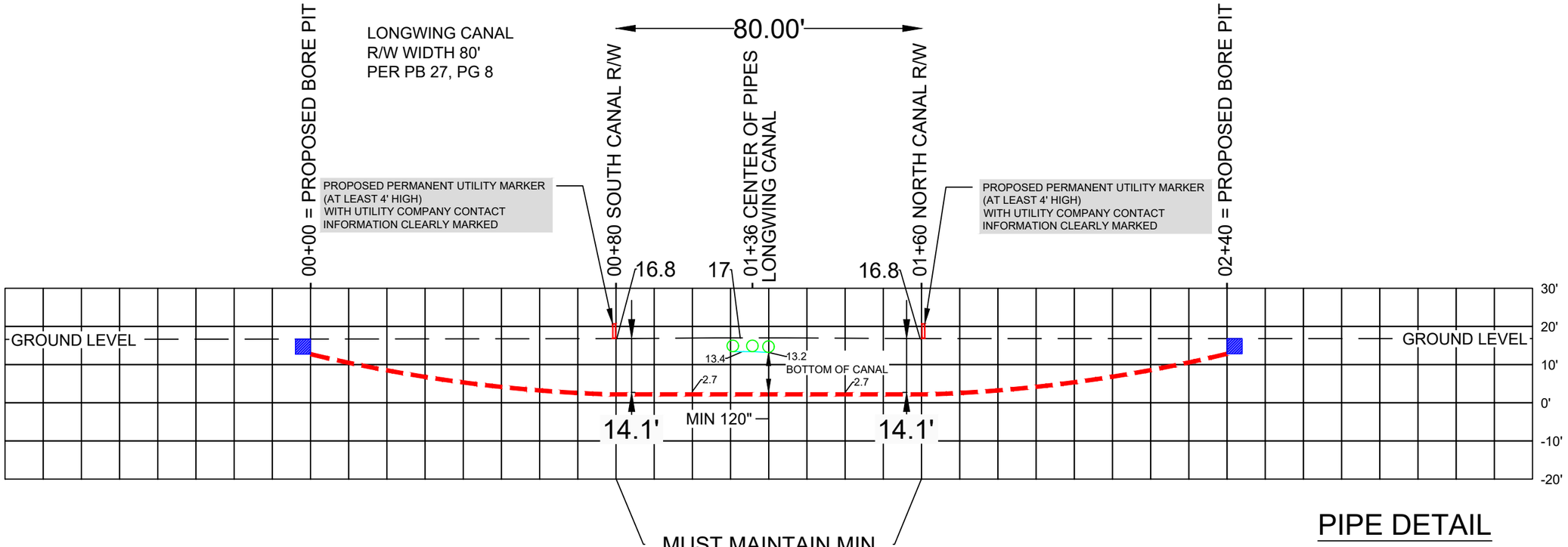
SHEET TITLE:
PROJECT SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_004
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	6 OF 12

SUB-GRADE VERTICAL PROFILE VIEW
WOODBURN DR
LOOKING WEST



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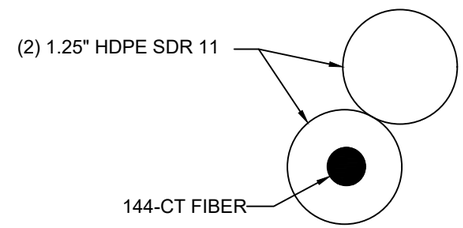
PIPE DETAIL



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0 10' 20' 30'
SCALE: 1"=30'

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SHEET TITLE:
PROFILE VIEW

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_004
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	7 OF 12

STREET LEVEL VIEW
STA 00+80
FACING NORTH

04/25/2026 03:03PM
26.676767, -81.611151
196 TOWNSEND CT
LEHIGH ACRES, FL 33972

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: IMAGES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_004
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	8 OF 12

PERMITTING AGENCY

LA - MSID

lumos

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LAS VEGAS, NV 89117

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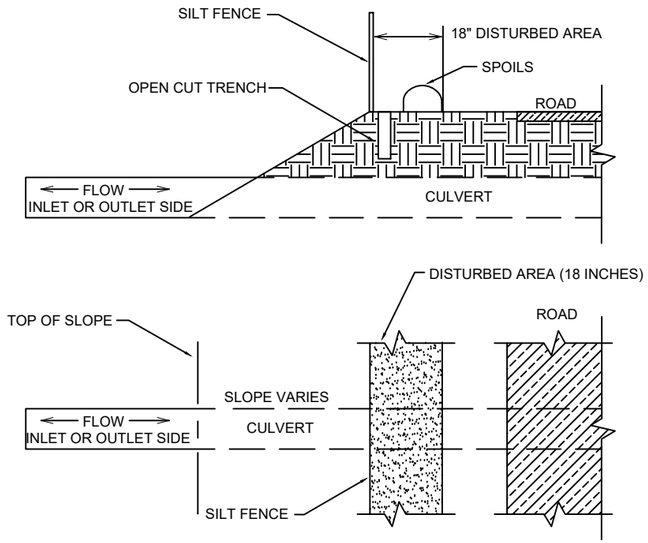
SHEET:	9 OF 12

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

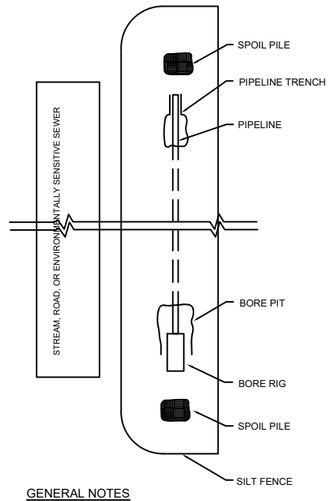
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

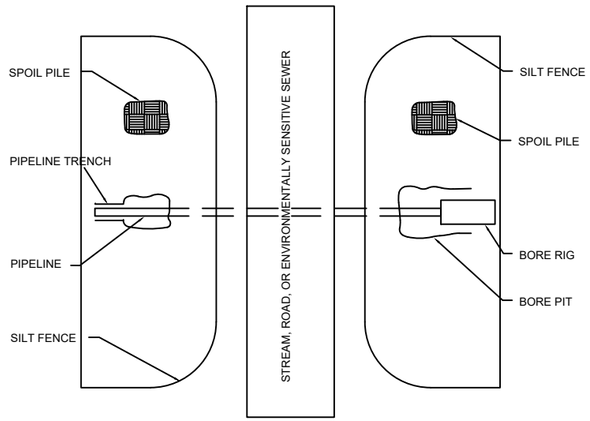


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

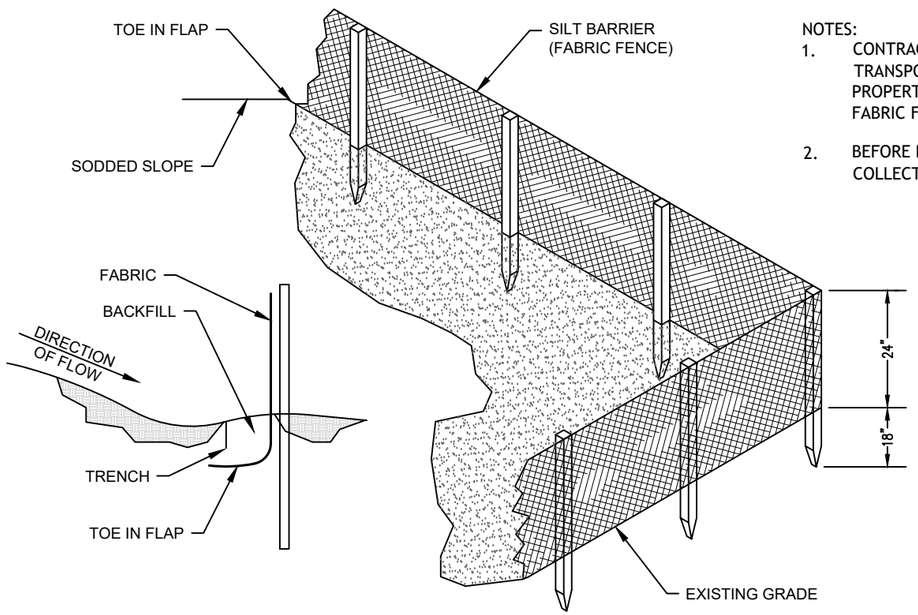
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

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LAS VEGAS, NV 89117

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SHEET TITLE: TYPICALS

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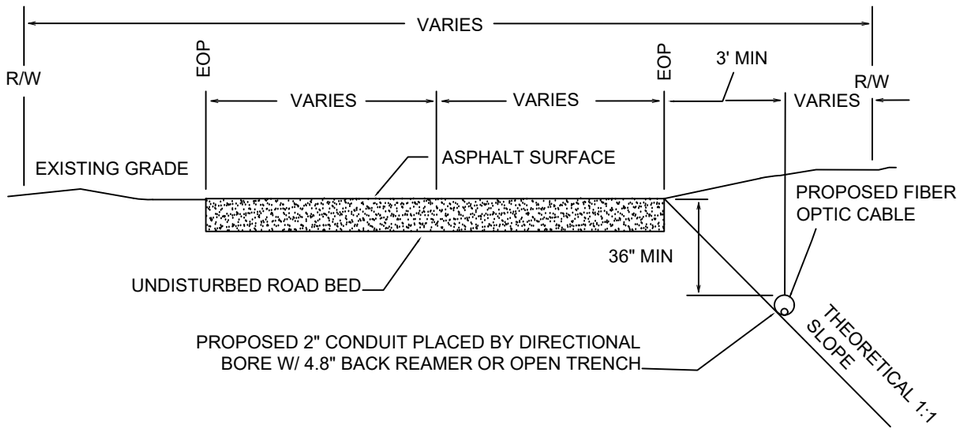
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_004
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_004 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	10 OF 12

TYPICALS

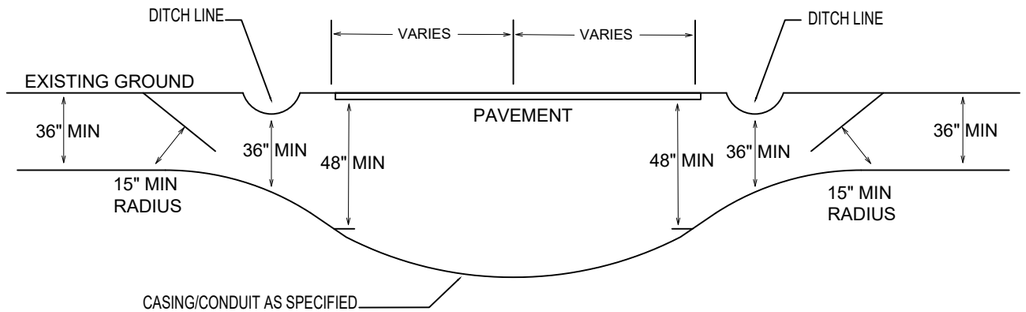
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



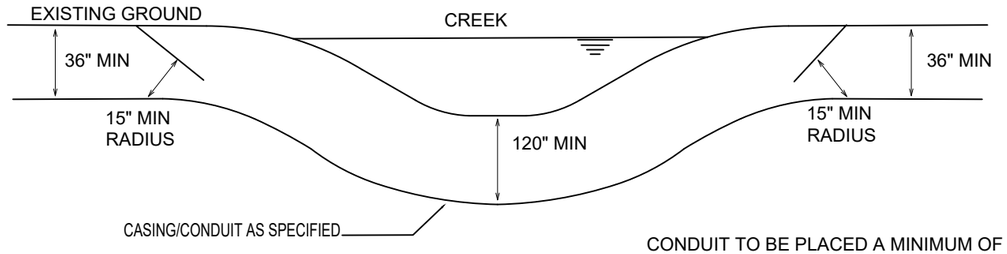
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

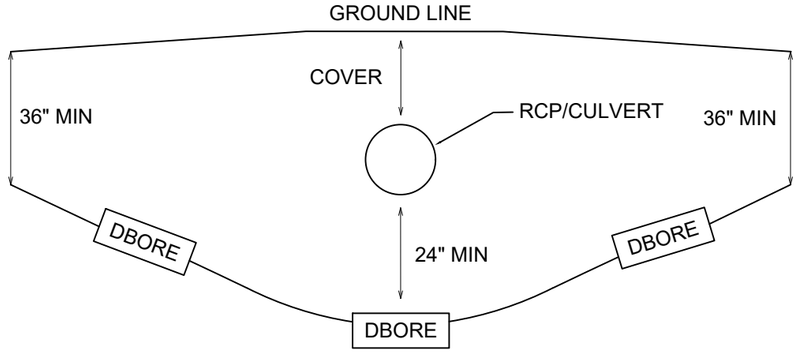
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 10 FEET BELOW CREEK BED

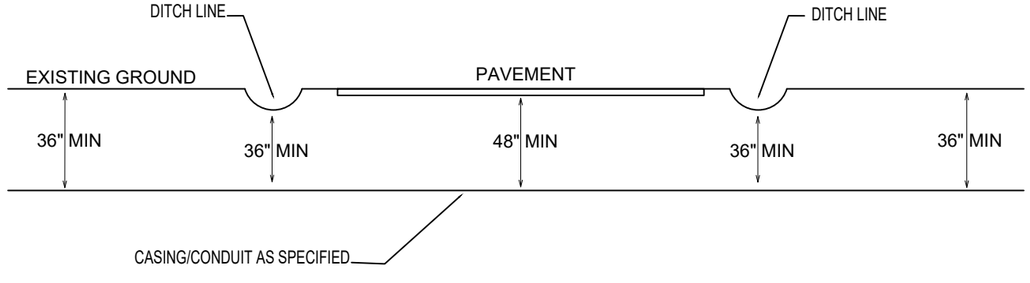
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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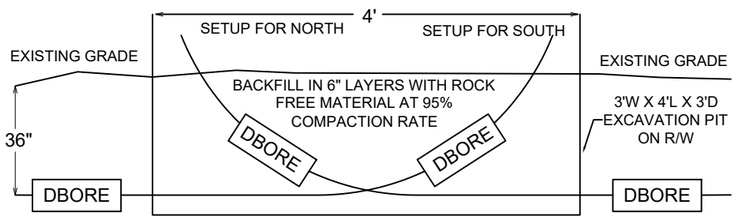
SHEET:	11 OF 12

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

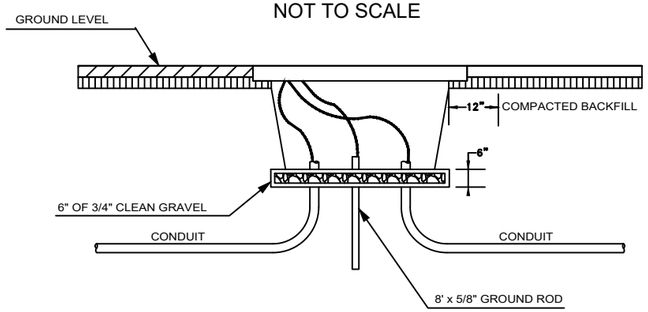


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

PULL BOX HANDHOLE

NOT TO SCALE



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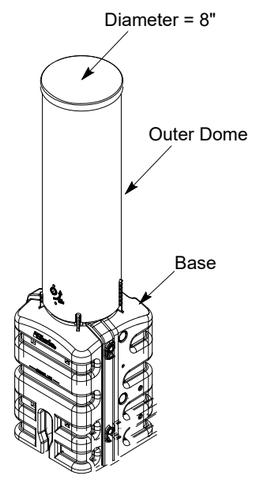
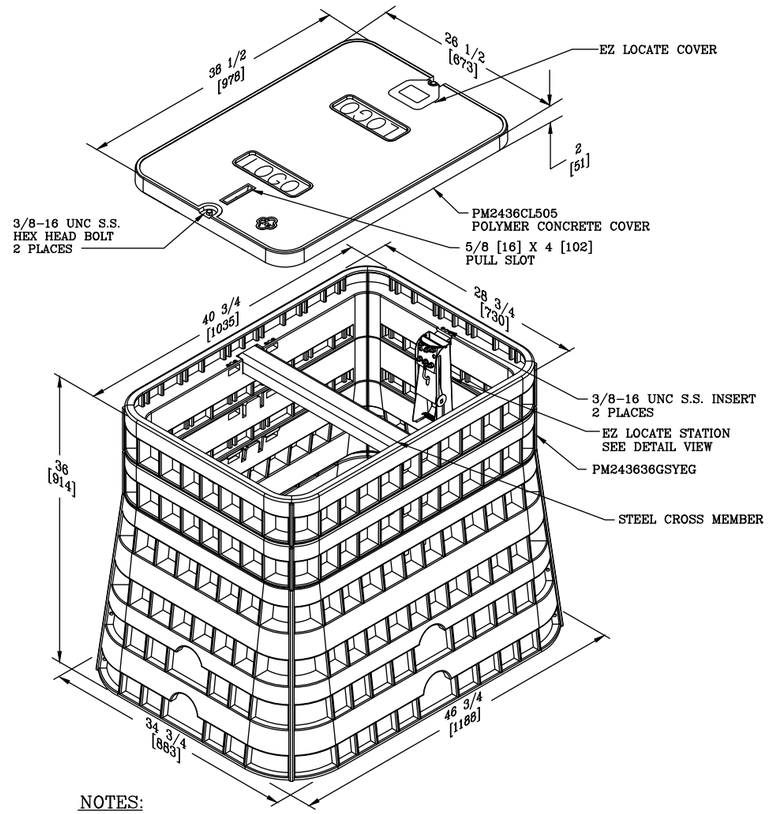
BDO204-EG

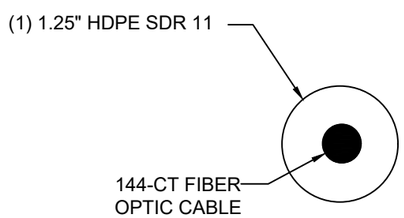




NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

PIPE DETAIL



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SHEET:	12 OF 12

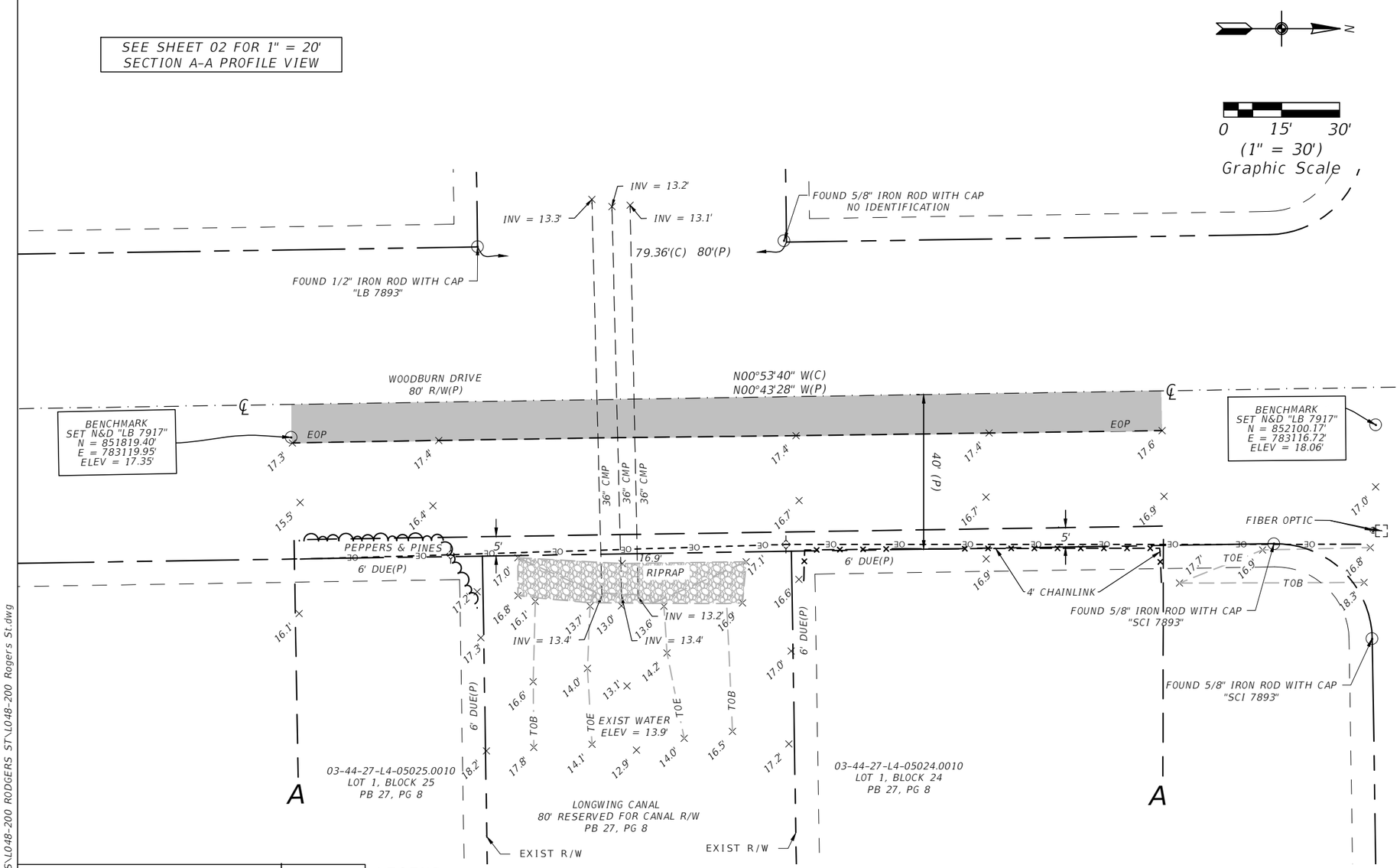
Topographic Survey of a Subject Project Site

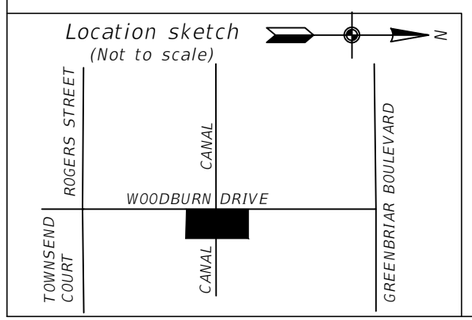
lying within

Section 3, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW





LEGEND:

(P)	= PER PLAT	N&D	= NAIL AND DISK
(C)	= CALCULATED	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
CB	= CATCH BASIN	OR	= OFFICIAL RECORDS BOOK
Δ	= DELTA ANGLE	PB	= PLAT BOOK
℄	= CENTER LINE	PG	= PAGE
CONC	= CONCRETE	R/W	= RIGHT OF WAY
CMP	= CORRUGATED METAL PIPE	RCP	= REINFORCED CONCRETE PIPE
CPP	= CORRUGATED PLASTIC PIPE	RNG	= RANGE
DUE	= DRAINAGE AND UTILITY EASEMENT	S/W	= SIDEWALK
ELEV	= ELEVATION	SEC	= SECTION
EOP	= EDGE OF PAVEMENT	TOB	= TOP OF BANK
EXIST	= EXISTING	TOE	= TOE OF SLOPE
FIRC	= FOUND IRON ROD AND CAP	TWP	= TOWNSHIP
INST#	= INSTRUMENT NUMBER	(TYP)	= TYPICAL
INV	= INVERT ELEVATION		

⊙	= FOUND MONUMENT
-OE-	= OVERHEAD UTILITY LINE
+20.0'	= SPOT ELEVATION
	= WIRE PULL BOX
	= ELECTRICAL POLE
	= SUBSURFACE UTILITY MARKER

NOTES:

Survey based on the plat of Unit 5 - Greenbriar as recorded in Plat Book 27 Page 8, Public Records of Lee County, Florida and existing monumentation.

This survey prepared as a Topographic Survey for the purpose of locating the features within and adjacent to the Lehigh Acres Municipal Services Improvement District-managed facility East of Woodburn Drive between Greenbriar Boulevard and Townsend Court.

The elevations shown hereon are referenced to the North American Vertical Datum of 1988 (NAVD 1988). All elevations are reported in US survey feet and decimals thereof and are based upon the Florida Permanent Reference Network (FPRN) stations maintained by the Florida Department of Transportation.

The subject site lies within Zone "X" per FEMA insurance rate map 125124 0336F (Published 08/28/2008), therefore has no base flood elevation.

The FEMA flood zone information indicated hereon is based on the maps supplied by the Federal Government. This flood information must be verified with all permitting regulatory entities prior to commencing any work or application dependent on said flood information.

Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 12/17/2025

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

Taylor Henninge 2026.01.30 08:29:40-05'00'

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Woodburn Drive, Lehigh Acres

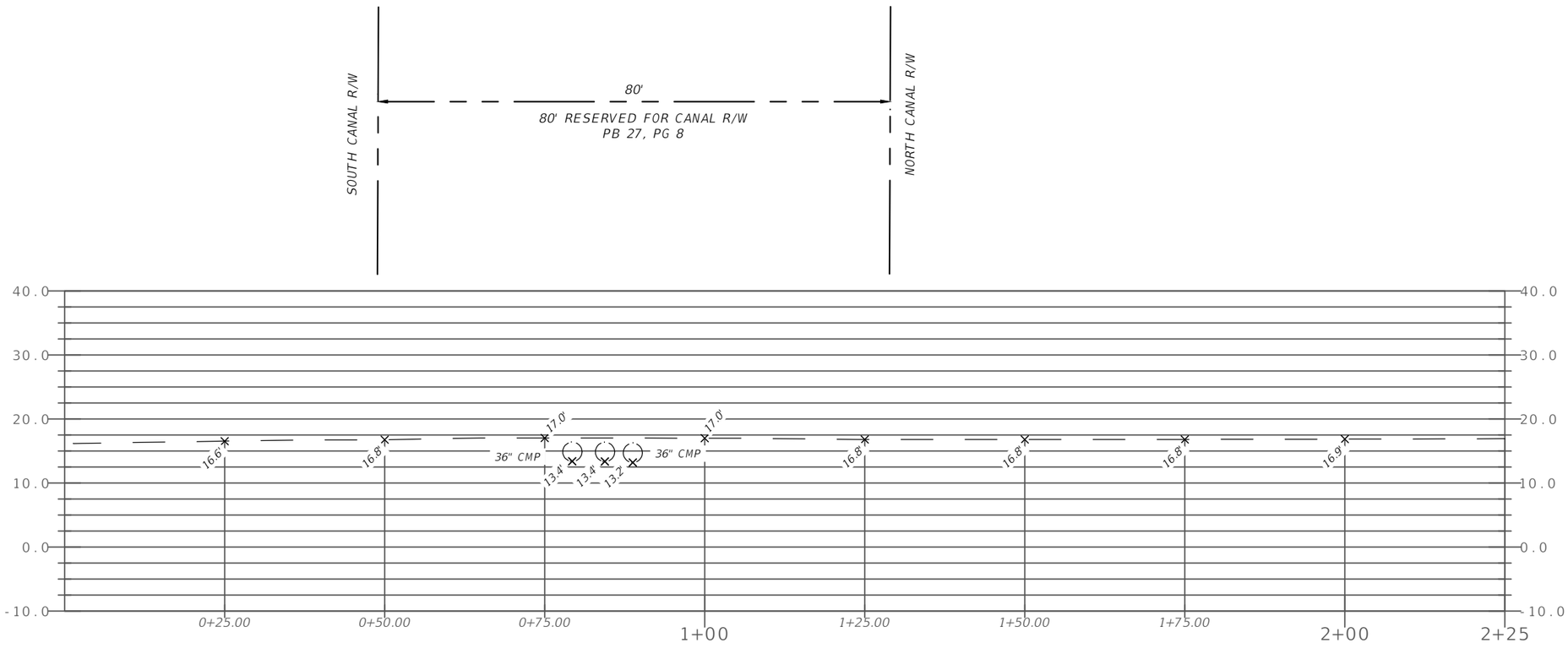
TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name: L048-200 Rogers St.dwg	Field book/page: 106981-3/22		Project No.: 106980001-L048
Survey date: 12/17/2025	Drawn by: KB	Checked by: TJH	Sheet No.: 01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L048-200 RODGERS ST\L048-200 Rogers St.dwg

Topographic Survey of a
Subject Project Site
Section 3, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Woodburn Drive, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

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L048-200 Rogers St.dwg	106981-3/22	106980001-L048

Survey date:	Drawn by:	Checked by:	Sheet No.:
12/17/2025	KB	TJH	02 OF 02

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

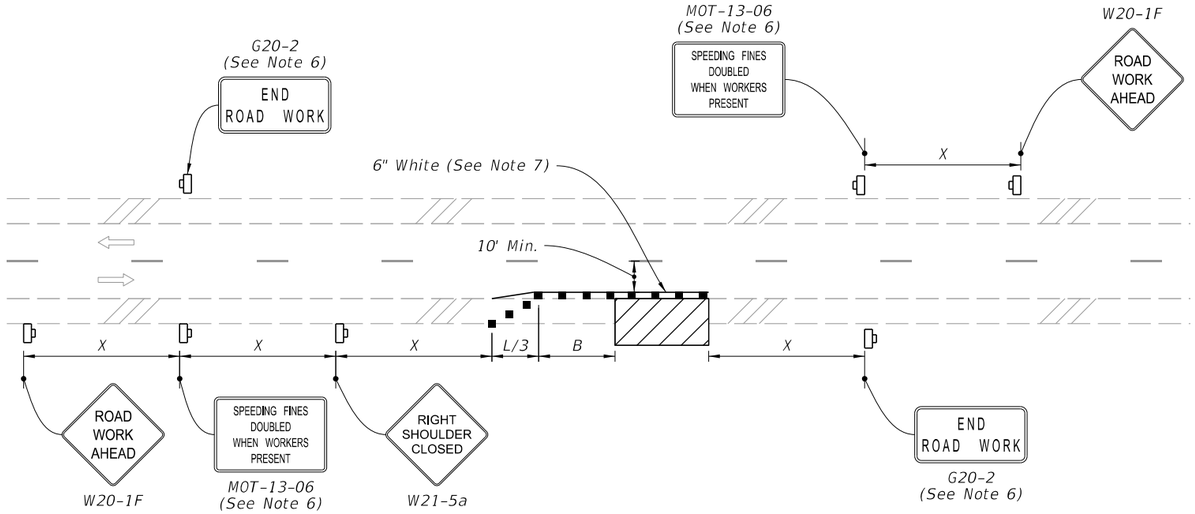
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

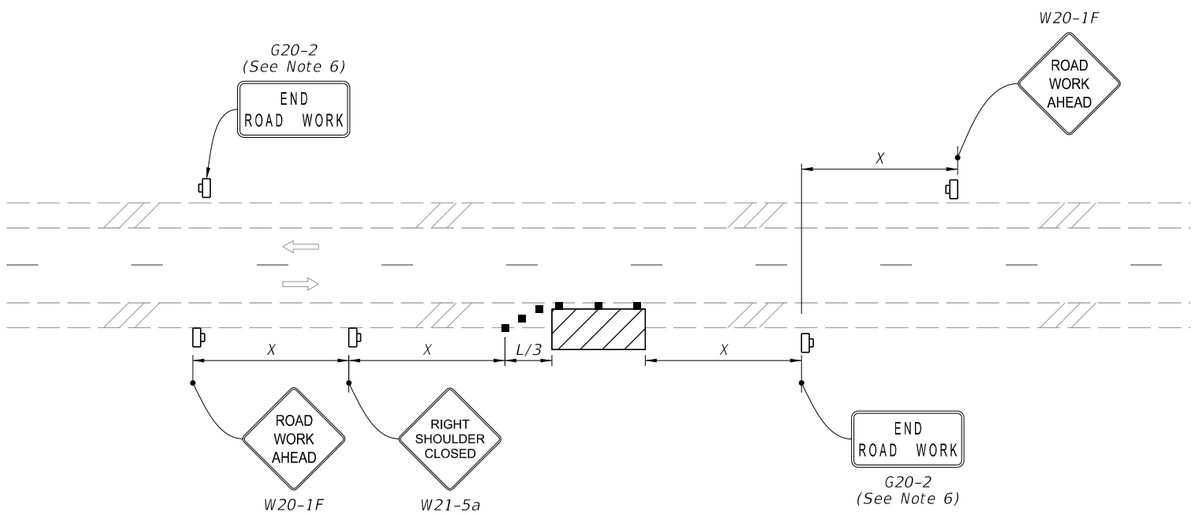
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



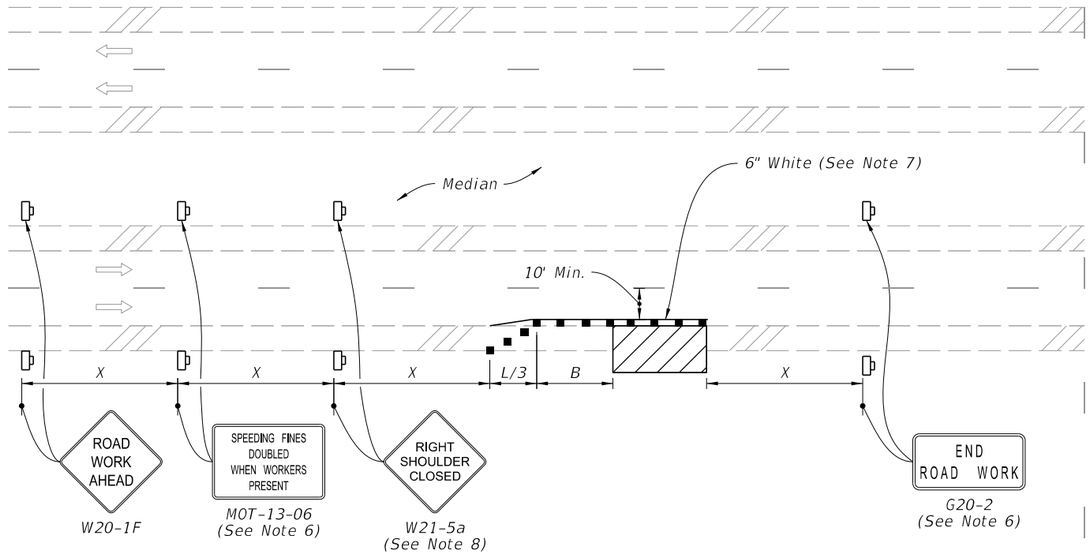
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



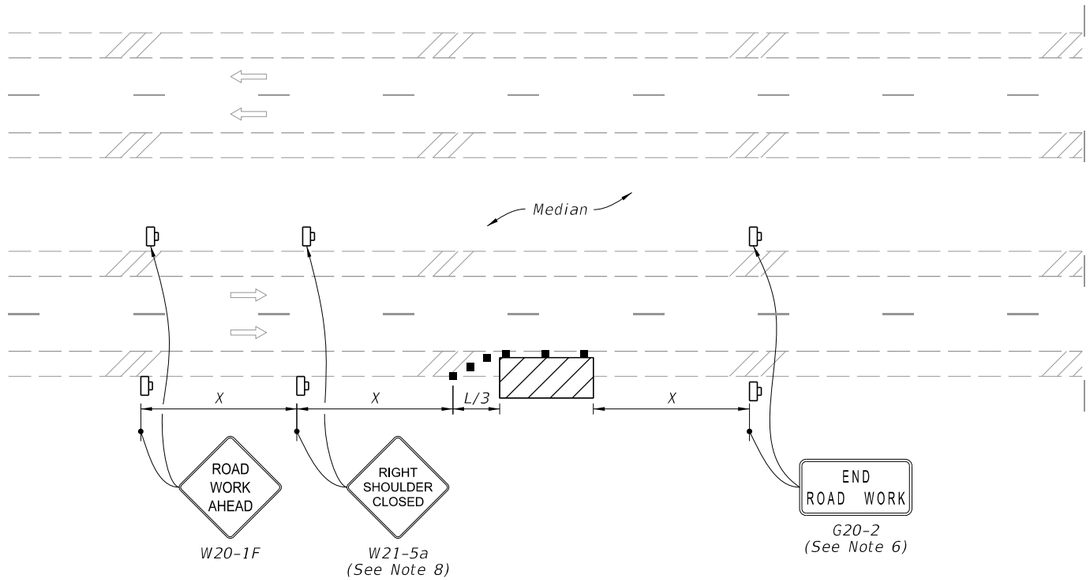
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FDOT FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

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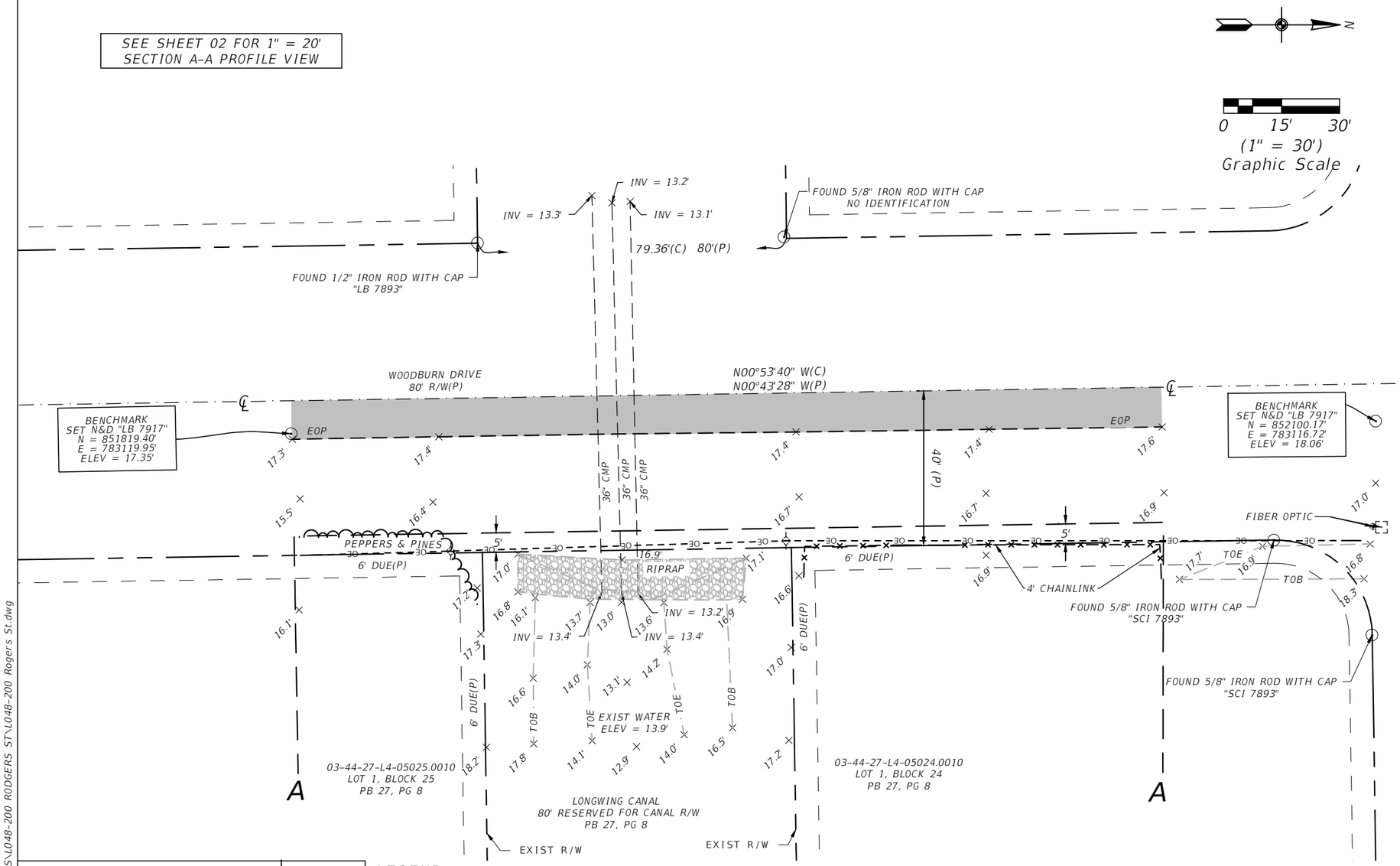
lying within

Section 3, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida



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The elevations shown hereon are referenced to the North American Vertical Datum of 1988 (NAVD 1988). All elevations are reported in US survey feet and decimals thereof and are based upon the Florida Permanent Reference Network (FPRN) stations maintained by the Florida Department of Transportation.

The subject site lies within Zone "X" per FEMA insurance rate map 125124 0336F (Published 08/28/2008), therefore has no base flood elevation.

The FEMA flood zone information indicated hereon is based on the maps supplied by the Federal Government. This flood information must be verified with all permitting regulatory entities prior to commencing any work or application dependent on said flood information.

Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 12/17/2025

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Woodburn Drive, Lehigh Acres

Location sketch
(Not to scale)

LEGEND:

(P)	= PER PLAT	N&D	= NAIL AND DISK
(C)	= CALCULATED	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
CB	= CATCH BASIN	OR	= OFFICIAL RECORDS BOOK
Δ	= DELTA ANGLE	PB	= PLAT BOOK
℄	= CENTER LINE	PG	= PAGE
CONC	= CONCRETE	R/W	= RIGHT OF WAY
CMP	= CORRUGATED METAL PIPE	RCP	= REINFORCED CONCRETE PIPE
CPP	= CORRUGATED PLASTIC PIPE	RNG	= RANGE
DUE	= DRAINAGE AND UTILITY EASEMENT	S/W	= SIDEWALK
ELEV	= ELEVATION	SEC	= SECTION
EOP	= EDGE OF PAVEMENT	TOB	= TOP OF BANK
EXIST	= EXISTING	TOE	= TOE OF SLOPE
FIRC	= FOUND IRON ROD AND CAP	TWP	= TOWNSHIP
INST#	= INSTRUMENT NUMBER	(TYP)	= TYPICAL
INV	= INVERT ELEVATION		

= FOUND MONUMENT
OE = OVERHEAD UTILITY LINE
+20.0' = SPOT ELEVATION
= WIRE PULL BOX
= ELECTRICAL POLE
= SUBSURFACE UTILITY MARKER

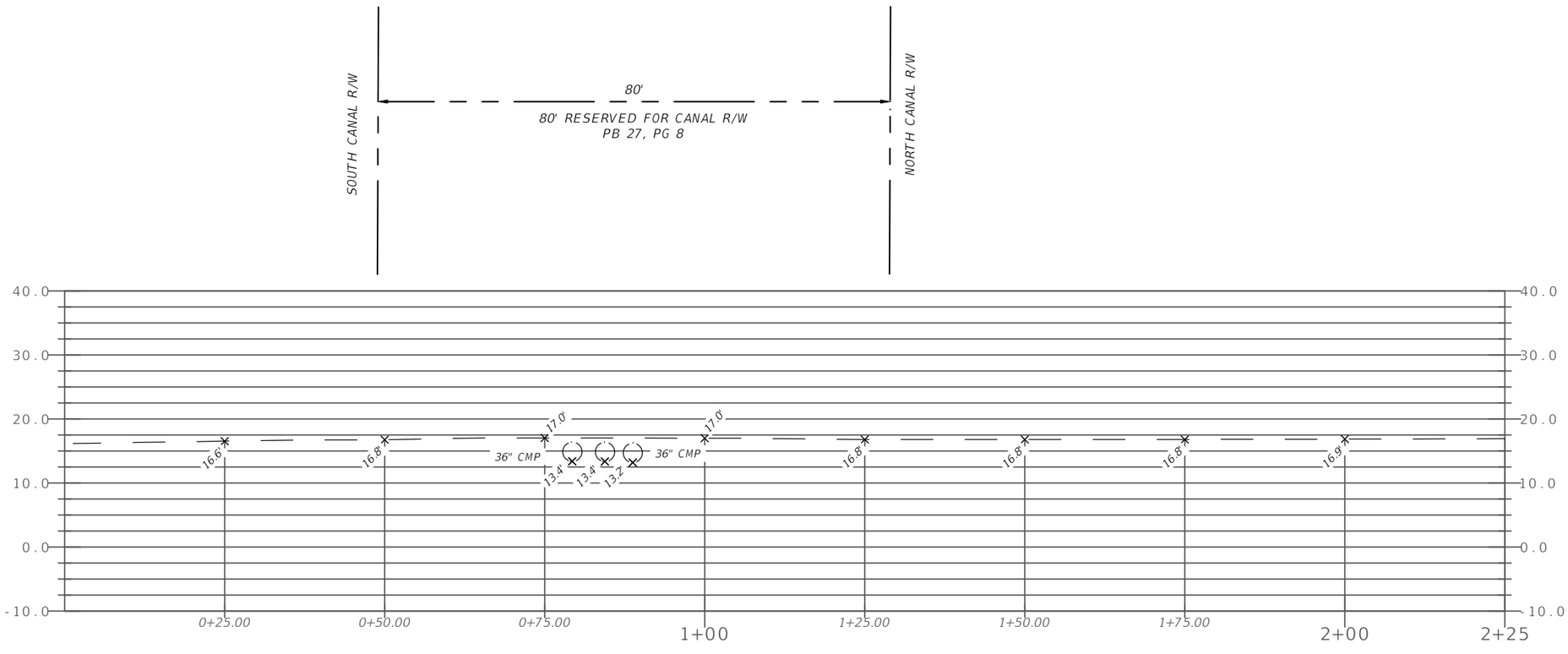
TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name: L048-200 Rogers St.dwg	Field book/page: 106981-3/22		Project No.: 106980001-L048
Survey date: 12/17/2025	Drawn by: KB	Checked by: TJH	Sheet No.: 01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L048-200 RODGERS ST\L048-200 Rogers St.dwg

Topographic Survey of a
Subject Project Site
Section 3, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

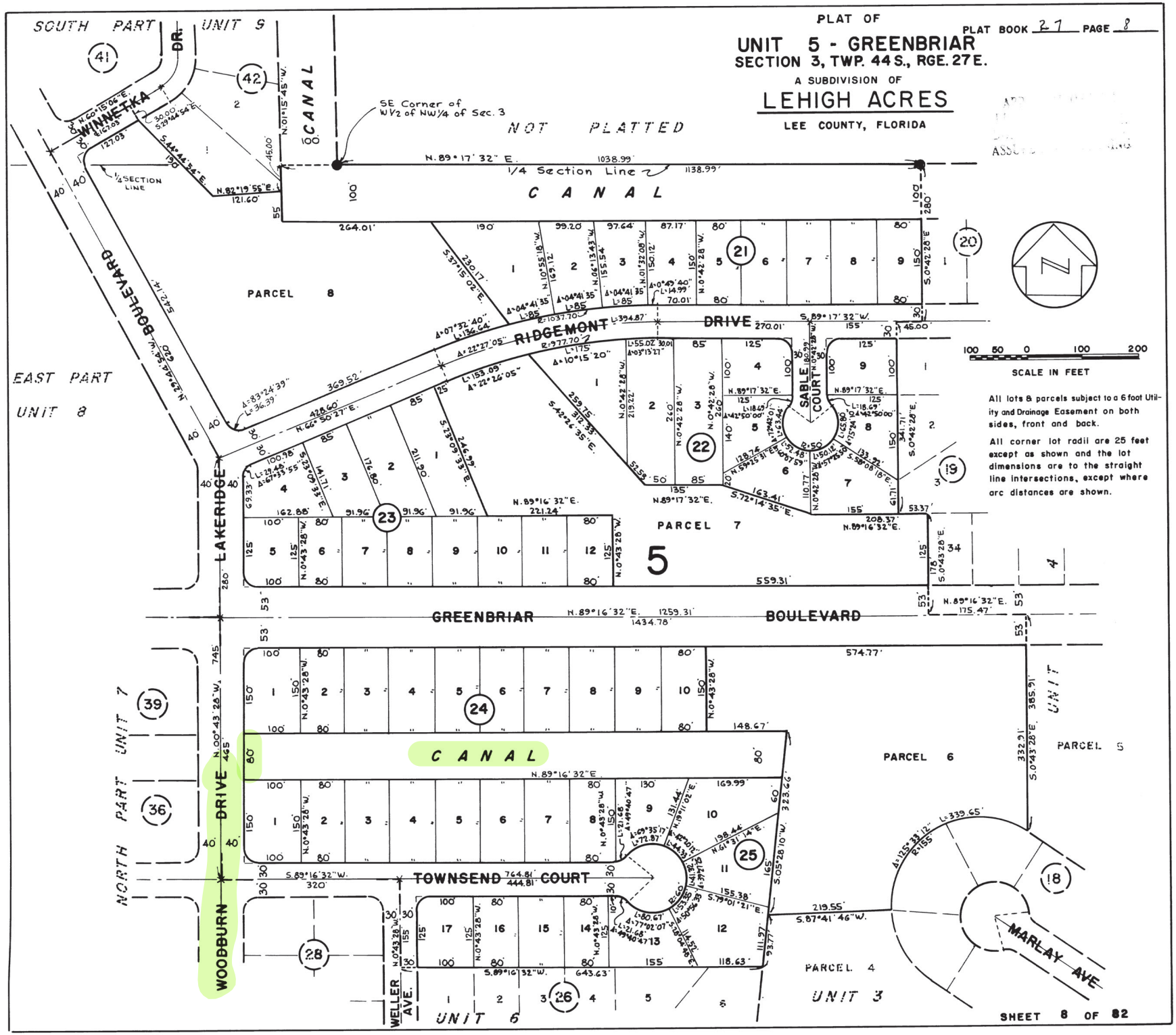
Woodburn Drive, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L048-200 Rogers St.dwg	106981-3/22	106980001-L048

Survey date:	Drawn by:	Checked by:	Sheet No.:
12/17/2025	KB	TJH	02 OF 02


PLAT OF
UNIT 5 - GREENBRIAR
SECTION 3, TWP. 44 S., RGE. 27 E.
A SUBDIVISION OF
LEHIGH ACRES
LEE COUNTY, FLORIDA
PLAT BOOK 21 PAGE 8
SOUTH PART UNIT 5
EAST PART UNIT 8
NORTH PART UNIT 7
UNIT 6
UNIT 3
PARCEL 8
PARCEL 7
PARCEL 6
PARCEL 5
PARCEL 4
5
CANAL
NOT PLATTED
SE Corner of W1/2 of NW1/4 of Sec. 3
1/4 Section Line
1/4 SECTION LINE
WINNETKA DR.
BOULEVARD
LAKERIDGE
RIDGEMONT DRIVE
SABLE COURT
GREENBRIAR BOULEVARD
WOODBURN DRIVE
TOWNSEND COURT
WELLER AVE.
MARLAY AVE
SCALE IN FEET
All lots & parcels subject to a 6 foot Utility and Drainage Easement on both sides, front and back.
All corner lot radii are 25 feet except as shown and the lot dimensions are to the straight line intersections, except where arc distances are shown.
SHEET 8 OF 82

PART IV #26-79

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ Approved ___ Denied ___

District Manager: _____ Date: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Longwing Canal (47-3-7) at 200 Rogers St., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Longwing Canal (47-4-2), along the east side of Justice Ave., between Greenbriar Blvd. & Urbana St., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-80

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-80 is approved according to the plans submitted April 30th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 80' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Justice Ave.

04-16-26

16-80

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: WILLIAM KIEFER **PHONE #:** (515) 306 - 3403

PROJECT NAME: LE1_002_FDH_006 305 JUSTICE AVE - LONGWING CANAL

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 305 JUSTICE AVE					
Mailing Address:	N/A				
City:	LEHIGH ACRES	**State:**	FLORIDA	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary*):

0	4	-	4	4	-	2	7	-	L	3	-	0	7	0	3	7	-	0	0	5	0

Brief description of proposed project:

Application for: DIRECTIONAL BORE 2x1.25" HDPE SDR 11 CONDUIT 80' IN THE LAMSID ROW OF LONGWING CANAL (47-4-2) ALONG JUSTICE AVE

RECEIVED
APR 30 2026
LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$1950 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	LUMOS FIBER OF FLORIDA, LLC						
Mailing Address:	**Street:**	4100 MENDENHALL OAKS PKWY, SUITE 300					
City:	HIGH POINT	**State:**	NORTH CAROLINA		**Zip:**	27265	
Phone No.	**Area Code:**	515	**Number:**	306 - 3403	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	WILLIAM.KIEFER@LUMOSFIBER.COM						

B. Relationship of applicant to property*:
Owner* ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee*** ☐

Contract Purchaser* ☐ **Other (indicate)*** ☑ UTILITY

C.

Name of Developer:	MILENIUM DIRECTIONAL DRILLING, INC						
Mailing Address:	**Street:**	5395 COGSWELL DR					
	WAYNE	**State:**	MI		**Zip:**	48184	
	Area Code:	(313)	**Number:**	326 - 2333	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	FELECAND@MILENIUMBORS.COM						

D.

Name of Authorized Agent(s):	CENTILLION SOLUTIONS						
Mailing Address:	**Street:**	6030 BETHELVIEW RD, SUITE 301					
City:	CUMMING	**State:**	GEORGIA		**Zip:**	30040	
Phone No.	**Area Code:**	(480)	**Number:**	442 - 0562	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	KYLE.PARKEY@CENTILLIONSOLUTIONS.COM						

E.

Name of Property owner:	N/A						
Mailing Address:	**Street:**						
City:		**State:**			**Zip:**		
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

		-			-			-			-					-				

PRIMARY STRAP NUMBER:

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

WILLIAM KIEFER
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 28th day of April (m), 2026 (y), by William Kiefer who is personally know to me ~~or has~~ produced _____ ~~as identification~~.

ANDREW P. STEVENSON
Notary Public, North Carolina
Guilford County
My Commission Expires
November 06, 2026

Andrew P. Stevenson
SIGNATURE OF NOTARY PUBLIC

Andrew P. Stevenson
PRINTED NAME OF NOTARY PUBL

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

ENGINEER

Name:	MCKIM & CREED						
Mailing Address:	5701 DIVISION DR, STE A						
City:	FORT MYERS	**State:**		FLORIDA		**Zip:**	33905
Business No.	**Area Code:**	(239)	**Number:**	980 - 3384		**Ext.**	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	BLAIR CONSULTING SERVICES, INC						
Mailing Address:	1428 SUNBLUSH LN						
City:	LAS VEGAS	**State:**		NV		**Zip:**	89117
Business No.	**Area Code:**	(813)	**Number:**	579 - 0128		**Ext.**	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
NA	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
NA	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
NA	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

Lehigh Acres Municipal Services Improvement District
•601 East County Lane •Lehigh Acres, FL 33936 •Phone: (239) 368-0044

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/12/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-80	Lumos Bore Under Longwing Canal (47-4-2) At Justice Ave.	Total Fee $1,950.00
	Permit Fee: $750.00 + $15 x 80' R/W = $750 + $1,200	Due From Deposit
	Total Fee: $1,950.00	
	TOTAL	$1,950.00

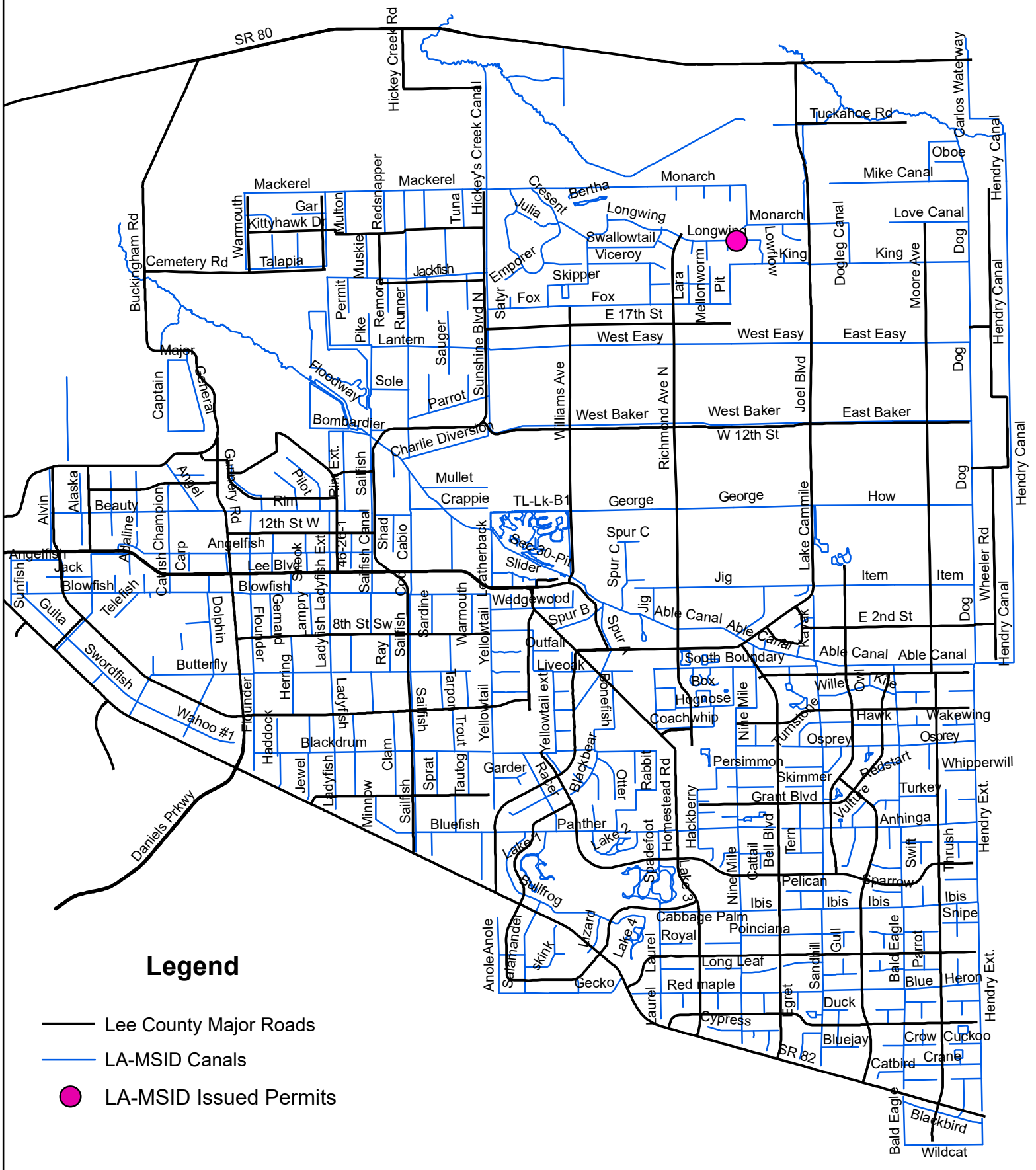
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/12/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry**.

*The CR account will need to be changed based on the customer See accounting to setup new customer deposit accounts

Permit # 2026-80

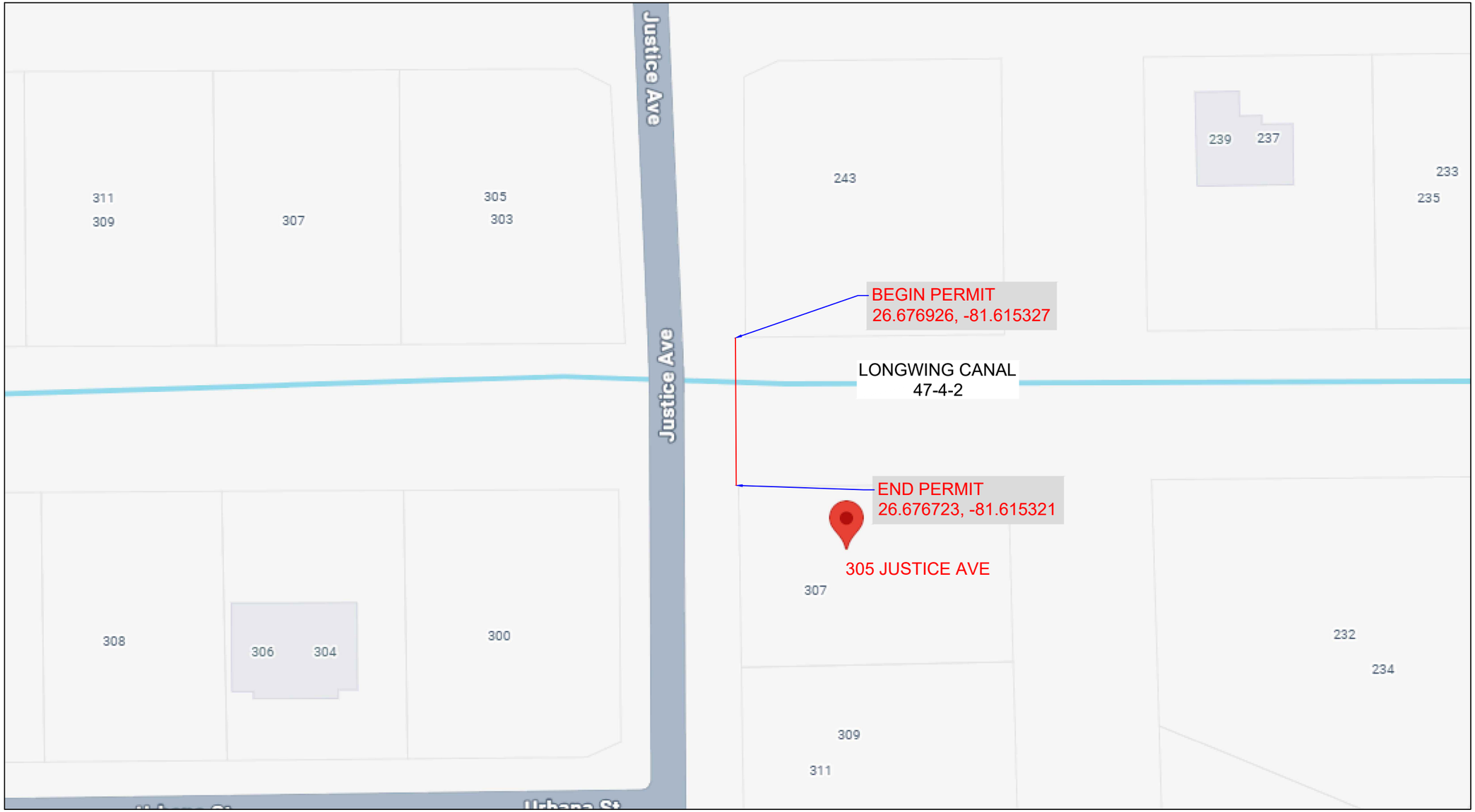


Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL

305 JUSTICE AVE, LEHIGH ACRES, FL 33972 (26.676827, -81.615352)



PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 240' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 48-CT FIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
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EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

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SHEET TITLE:	COVER SHEET
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	1 OF 12

SCOPE OF WORK

- BURIED PLACEMENT OF 240' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 48-CT MICROFIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

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PROJECT MANAGER
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UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

LEE COUNTY ELECTRIC CO-OP
TOM BAILEY
(239) 656-2414

LUMOS FIBER OF FLORIDA, LLC
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MARLON.BROWN@LUMOSFIBER.COM
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FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

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SHEET TITLE: SOW & CONTACTS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F	
	IN: 0
	OUT: 0

SEQUENTIAL CALLOUT

#F	
	IN: 0
	TAIL: 0

SEQUENTIAL IN TAIL CALLOUT

#F	
	TAIL: 0
	OUT: 0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

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SHEET TITLE: LEGEND

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	3 OF 12

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

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SHEET TITLE:	GENERAL NOTES
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	4 OF 12

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

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NO.	DESCRIPTION	BY	DATE
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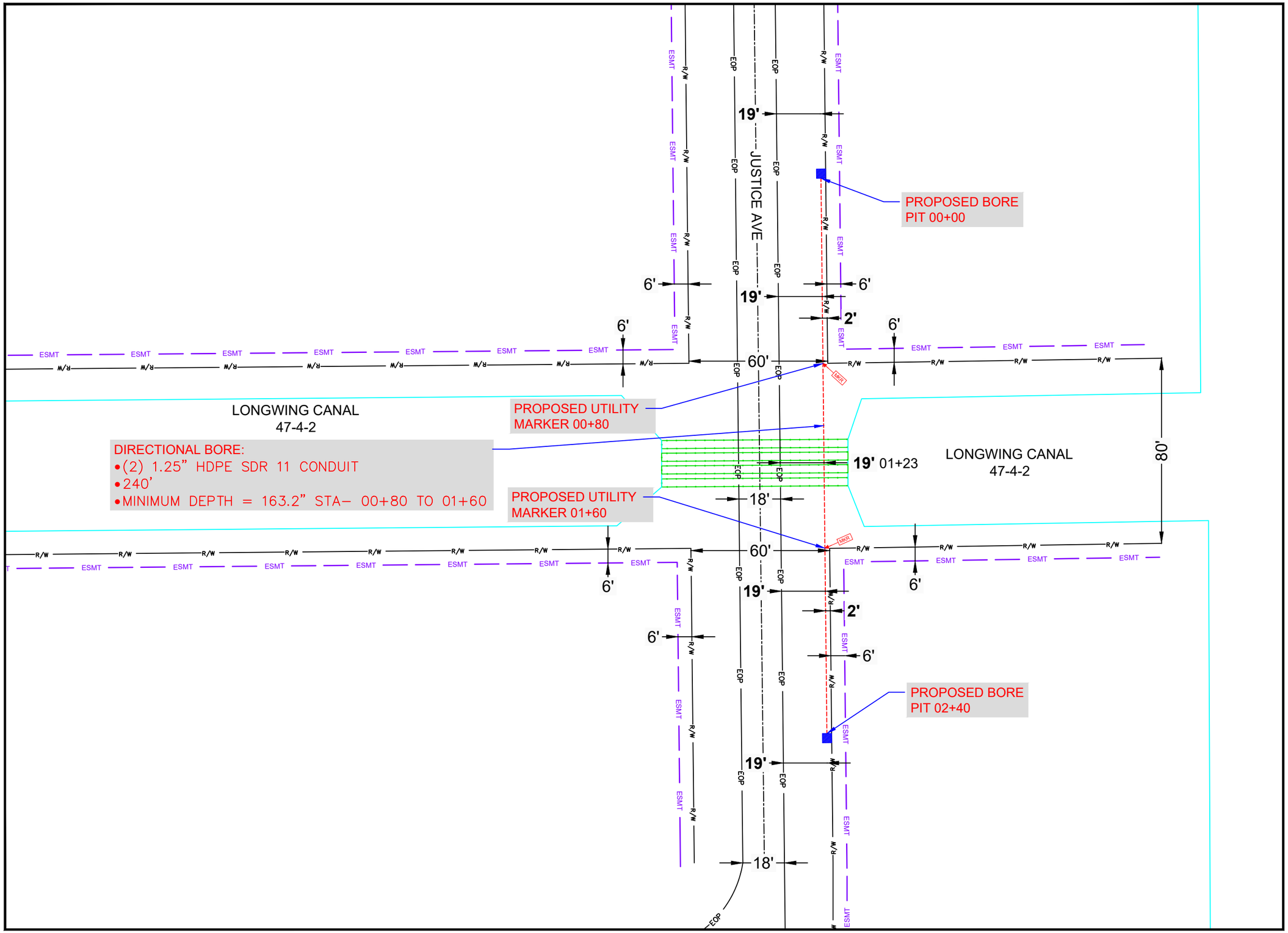
SHEET TITLE:
GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	5 OF 12



PERMITTING AGENCY

LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

0 10' 20' 30' 40'
SCALE: 1"=40'

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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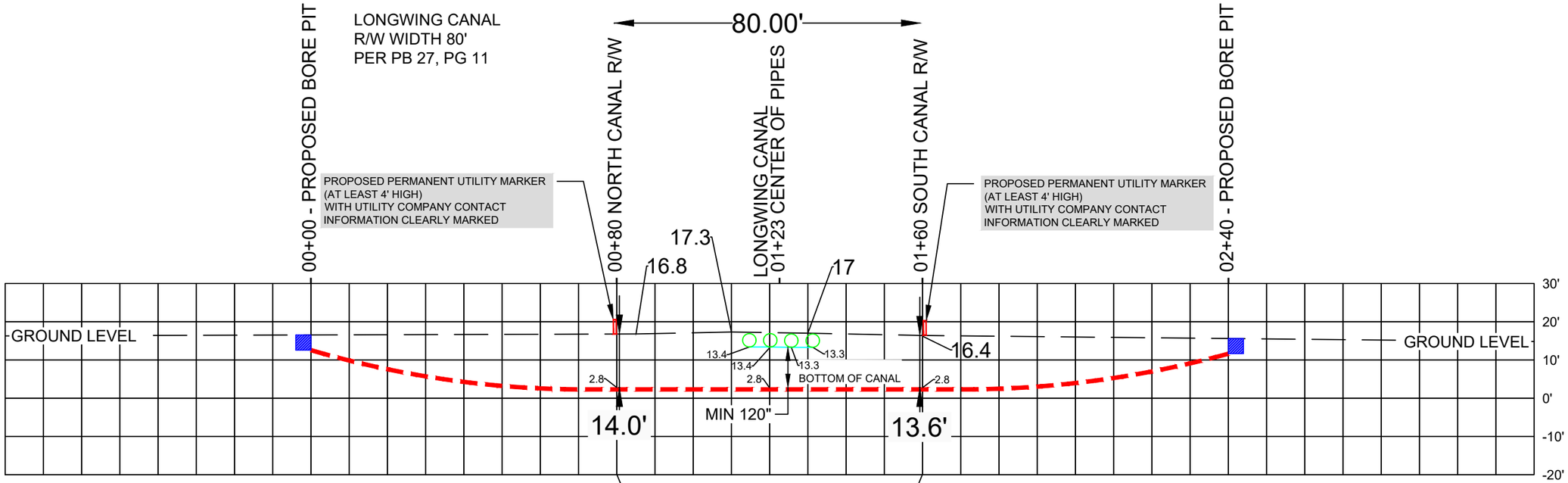
SHEET TITLE:
PROJECT SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	6 OF 12

SUB-GRADE VERTICAL PROFILE VIEW
JUSTICE AVE
LOOKING EAST

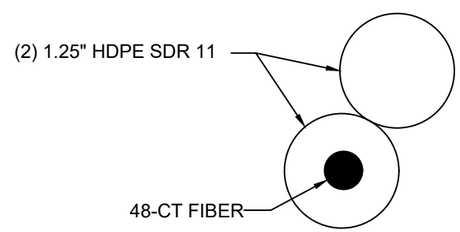


MUST MAINTAIN MIN
10' BELOW BOTTOM OF
CANAL IN LA-MSID ROW

UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

PIPE DETAIL



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LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

0 10' 20' 30'
SCALE: 1"=30'

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:
PROFILE VIEW

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	7 OF 12

STREET LEVEL VIEW
STA 00+80
FACING SOUTH

04/07/2026 10:39AM
26.676926, -81.615327
243 GREENBRIAR BLVD
LEHIGH ACRES, FL 33972

PERMITTING AGENCY
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1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: IMAGES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	8 OF 12

STREET LEVEL VIEW
STA 01+60
FACING NORTH

04/07/2026 10:37AM
26.676723, -81.615321
305 JUSTICE AVE
LEHIGH ACRES, FL 33972

PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.
1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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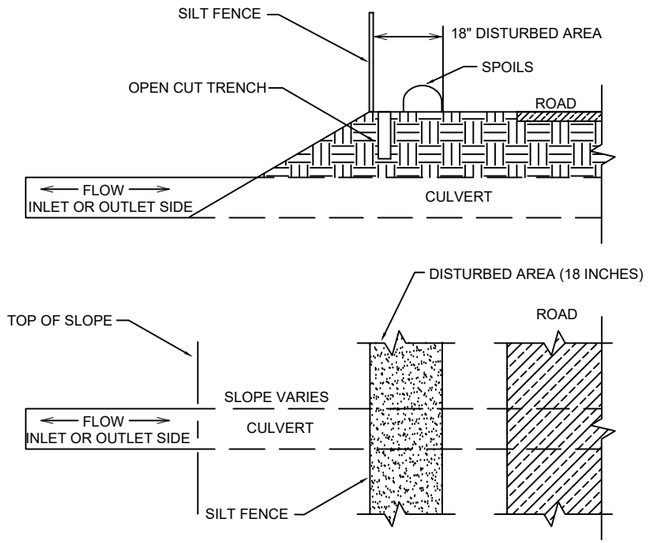
SHEET TITLE: IMAGES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	9 OF 12

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

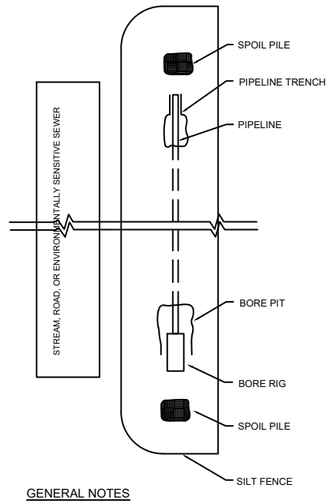
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

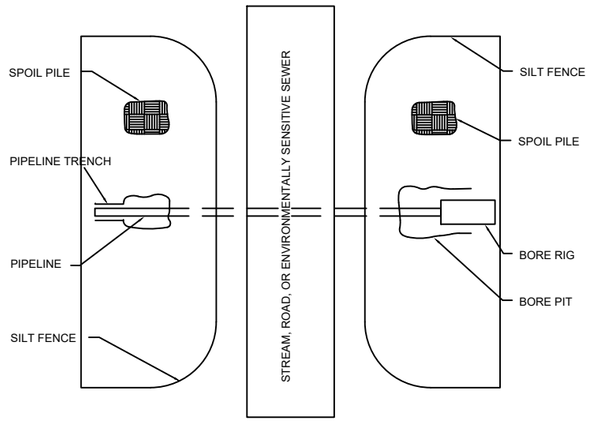


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

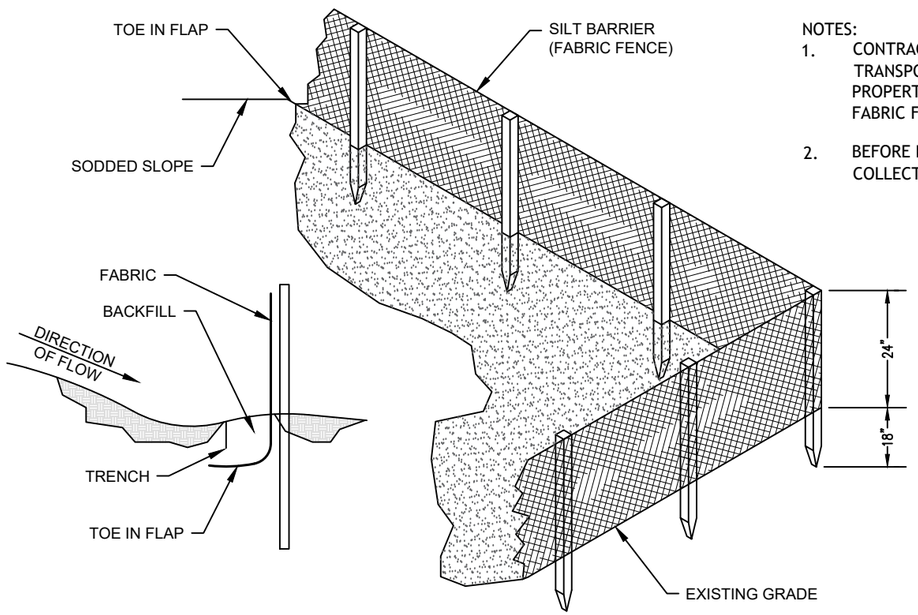
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

PERMITTING AGENCY

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LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: TYPICALS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	10 OF 12

TYPICALS

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LAS VEGAS, NV 89117

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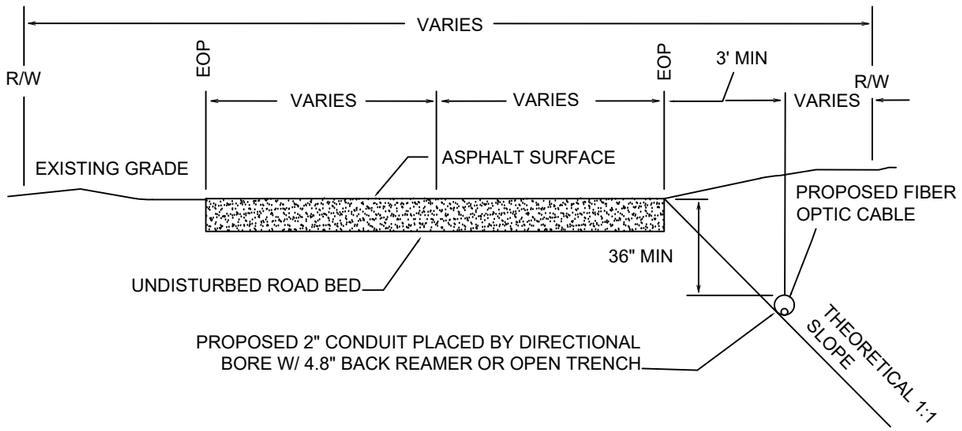
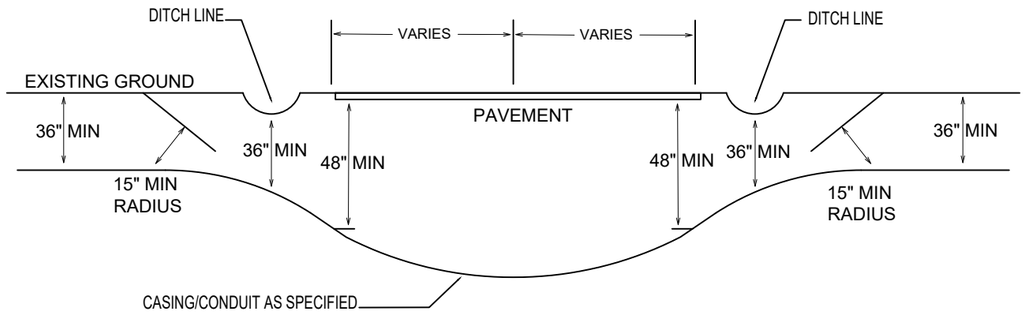
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



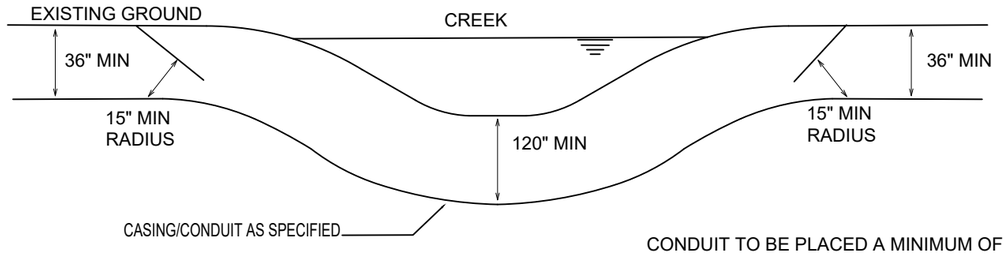
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

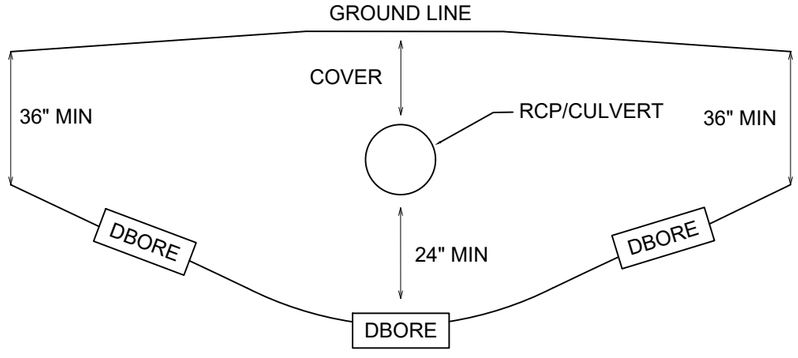
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 10 FEET BELOW CREEK BED

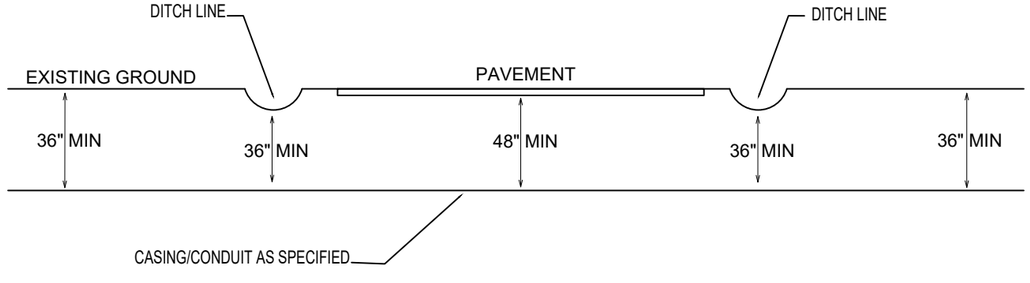
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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SHEET TITLE:	TYPICALS
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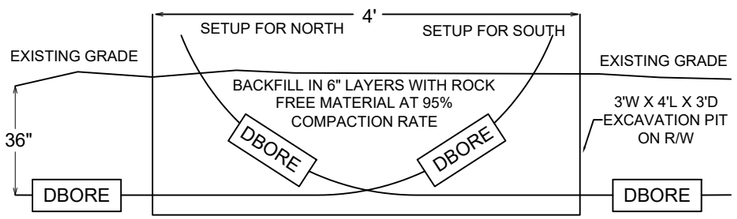
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	11 OF 12

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

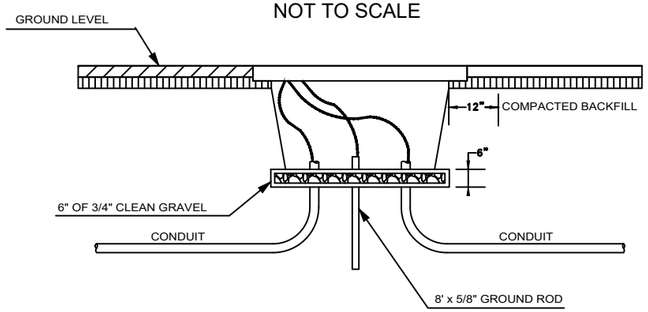


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

PULL BOX HANDHOLE

NOT TO SCALE



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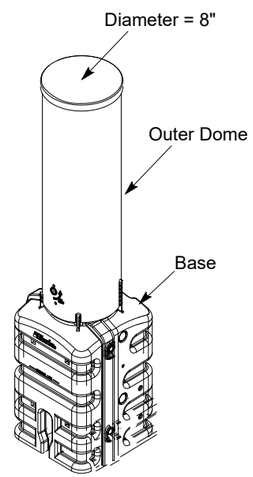
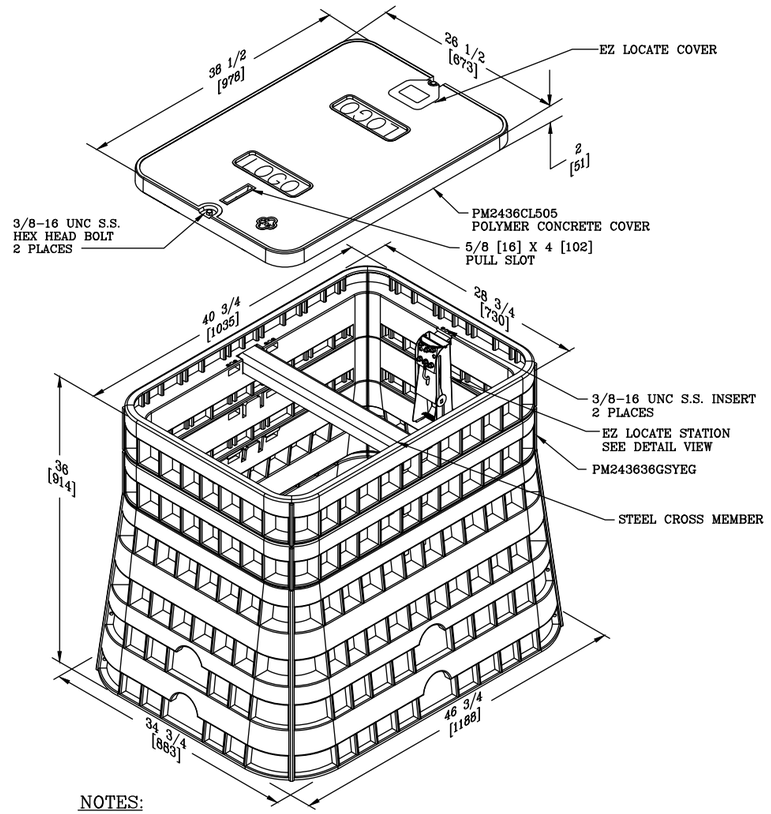
BDO204-EG

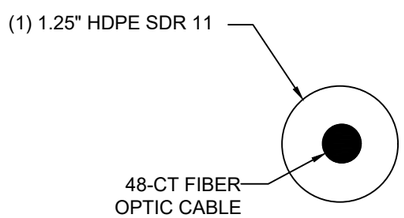




NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

PIPE DETAIL



PERMITTING AGENCY

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LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:	TYPICALS
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	12 OF 12

FDOT CONSTRUCTION NOTES

1. Aerial crossings of State roads involving temporary lane closures are to be done between the hours of 12:00 am and 5:00 am Monday through Thursday unless previously approved by the Department.

2. When directional bore is the method of installation, a minimum 24-inch separation shall be maintained from all existing utilities unless supervised, ITS/ATMS lines, and storm drain systems while maintaining the minimum required depth under pavement or non-paved ground.

3. If the proposed utility cannot be installed per the approved permitted plan and by FDOT specifications, a revised plan must be provided to the Department for review and approval prior to the installation of products or materials at the given locations where conflicts occur.

4. Any new proposed plan shall include cross sections, plan views and profiles of the State road adequately reflecting all right-of-way features including but not limited to existing utilities, storm drain systems and any above or below ground appurtenances where applicable.

5. No pedestrian pathway is to be removed, blocked, or disturbed without having a sufficient designated temporary pedestrian pathway with all appropriate pedestrian maintenance of traffic signs (Index 660) in-place prior to pathway being affected.

6. All temporary pedestrian pathways must be firm and unyielding.

7. Any sidewalk disturbed will be replaced by section within 72 hours to FDOT specifications.

8. Any sidewalk fronting the property that is cracked, damaged or unstable and is creating an ADA trip hazard must be replaced by section, using Standard #520-001, #522-002, and #522-001 for the construction of sidewalk and meet current ADA Standards. All concrete placed in the right of way shall be a minimum of 6" thick, FDOT Certified Class 1 non-structural, 57 stone, 2500 PSI concrete, with fiber mesh material from a FDOT approved plant.

9. FDOT reserves the right to make adjustments to any permitted method of installation, scope of work, and restoration that may be required to positively support life, safety, and environmental well-being of all users of the transportation system.

10. The Permittee shall notify the FDOT of date of completion, request a final inspection, and a Notice of Final Acceptance.

11. All construction and/or maintenance in the FDOT right-of-way shall conform to the Federal Manual on Uniform Traffic Devices (MUTCD), the FDOT Roadway and Traffic Design Standards, the Standard Specifications for Road and Bridge Construction, the Florida Design Manual, and the Drainage Manual.

12. Prior to removal of existing curb or driveway, the edge of travel shall be sawcut to avoid damaging the existing roadway asphalt. All concrete to be removed in FDOT right-of-way shall be sawcut and removed from the nearest joint.

13. No lane closure of any State roadway is allowed without a minimum of two (2) weeks advance notification and approval from FDOT.

14. Lane closures must be limited to Sunday through Thursday 8:00 pm to 5:30 am unless otherwise approved by FDOT.

15. Any sidewalk damaged because of work being performed in association with the Permittee and Contractor shall be removed and replaced with 6-inch thick Class 1 non-structural, 2,500 PSI with fiber mesh.

16. Open cutting of any roadway, driveway or sidewalk outside those limits identified within the permit are not allowed without prior approval of by FDOT.

17. The Contractor shall have an authorized person available at/or near the work site on a 24-hour basis, 7 days a week in order to address emergency issues associated with the project.

18. No stockpiling, storing or semi-permanent use of the right-of-way is authorized unless specifically identified within the permit.

19. No work shall be performed during the weeks of any State or Federal holiday unless otherwise approved in writing by FDOT.

20. The permitted work schedule is defined as Monday through Friday 7:00 am to 5:30 pm unless otherwise noted within the permit. Any work desired outside of this period must be requested in advance and approved before working the alternate schedule.

21. When work is associated with roadway modifications and/or site development, the Contractor is required to have a preconstruction meeting with the FDOT inspector two weeks prior to any construction beginning within the right-of-way.

22. All work performed under this permit within the right-of-way is to be scheduled with FDOT inspection staff.

23. Roadway restoration shall utilize 100 PSI excavatable flowable fill material and asphalt placed within the State right-of-way shall be placed full-depth, two 2.5-inch lifts of SP 12.5, two 1.5-inch lifts of SP 9.5. Typical sections will need to be provided within the plans for the pavement placement. A stair step method should be incorporated, prior to placing asphalt, to avoid vertical joints. Milling of the patch may be required based on the patched surface performance. The milling shall be utilized for surface leveling to a thickness equal to or greater than the existing friction coarse material. The milling limits are 50-foot of the patch along the longitudinal path of the lane, full lane width and to include any adjacent bike lanes, shared path or urban shoulder sections.

24. Any disruptions to any permeable pedestrian way and bike lane are to be restored as work continues. All patches shall be full width from outside edge of pedestrian path to white line edge of travel lane with stair step (staggered) joints. Restoration to include backfill with existing sub-grade material and #57 stone as base material (compact in 6-inch lifts) to bottom of existing pervious asphalt base, followed by permeable design mix (if available) or FC-5 (Friction Course) mix with a minimum 2-inch and maximum 3-inch lifts. Maintain ingress/egress on all drives and side streets during construction.

25. Any bore pit greater than five (5) feet in depth requires a Sheeting and Shoring Plan as well as a Dewatering Plan.

PERMITTING AGENCY

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1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:	CONSTRUCTION NOTES
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_006
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_006 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	13 OF 12

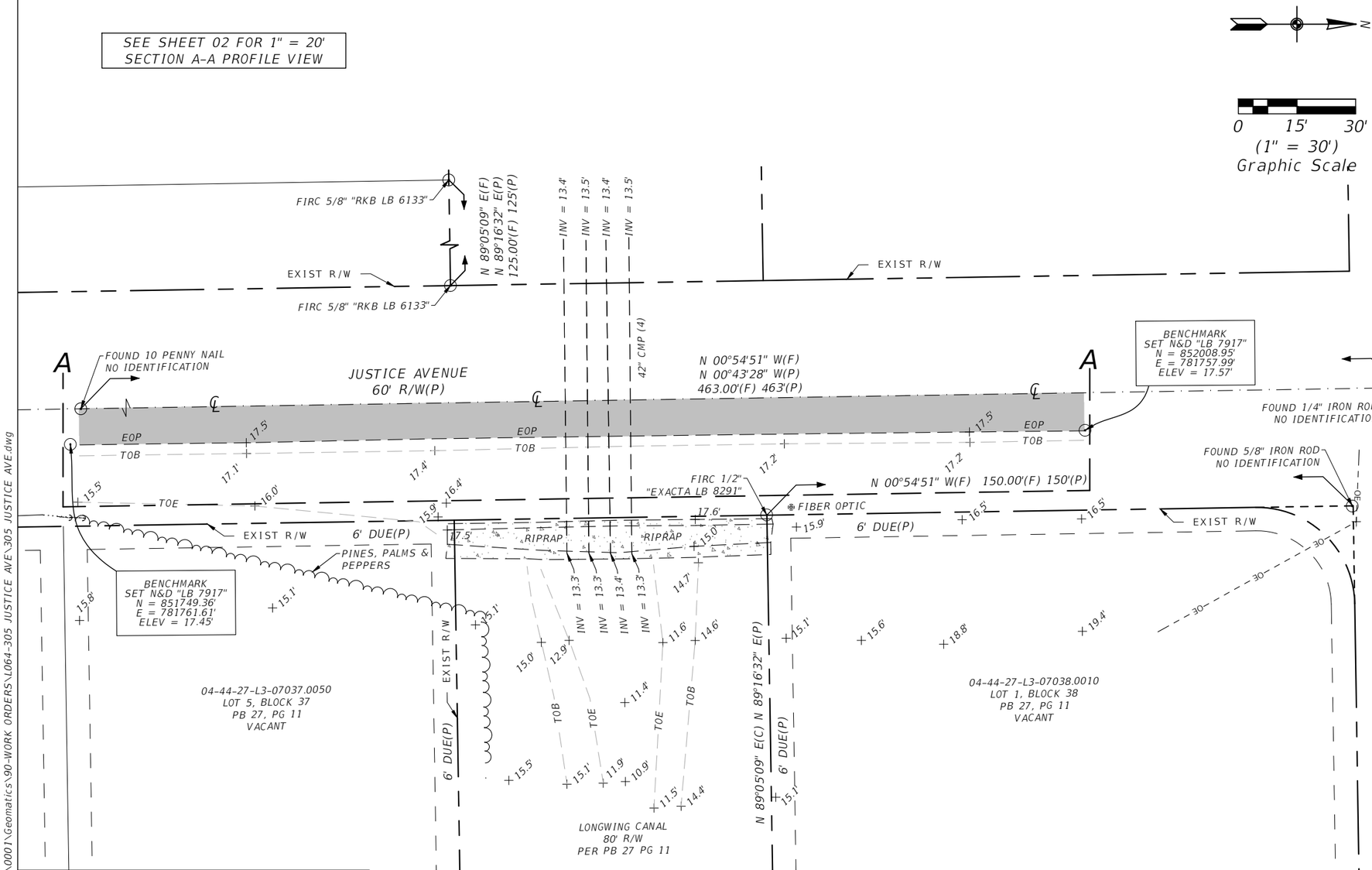
Topographic Survey of a Subject Project Site

lying within

Section 04, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



NOTES:

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Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 01/06/2026

Taylor Henninge 2026.02.26 16:16:27-05'00'

TAYLOR J. HENNINGE License Number 7279 STATE OF FLORIDA Professional Surveyor and Mapper

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

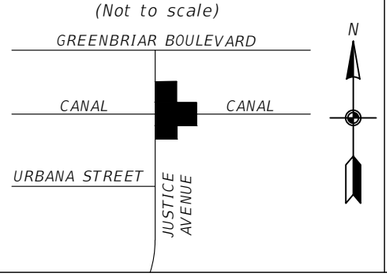
This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Justice Avenue, Lehigh Acres

Location sketch
(Not to scale)



LEGEND:

(C)	= CALCULATED
(F)	= FIELD MEASURED
(P)	= PER PLAT
CB	= CATCH BASIN
Δ	= DELTA ANGLE
℄	= CENTER LINE
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⟵	= GUY ANCHOR

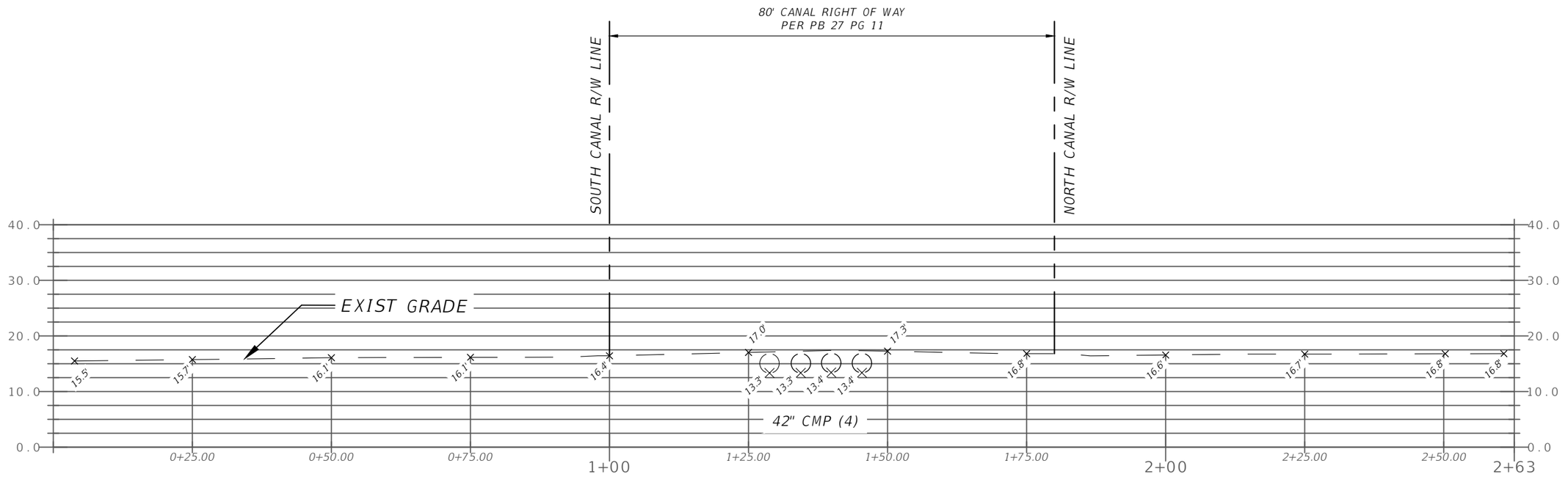
TOPOGRAPHIC SURVEY-PLAN VIEW

McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name: 305 JUSTICE AVE.dwg	Field book/page: 106981-4/12	Project No.: 106980001-L064	
Survey date: 01/06/2026	Drawn by: JRB	Checked by: TJH	Sheet No.: 01 OF 02

\\mckimcreed.com\nasuni\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L064-305 JUSTICE AVE\305 JUSTICE AVE.dwg

Topographic Survey of a
Subject Project Site
Section 04, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Justice Avenue, Lehigh Acres

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\\mckimcreed.com\nasuni\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L064-305 JUSTICE AVE\305 JUSTICE AVE.dwg

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

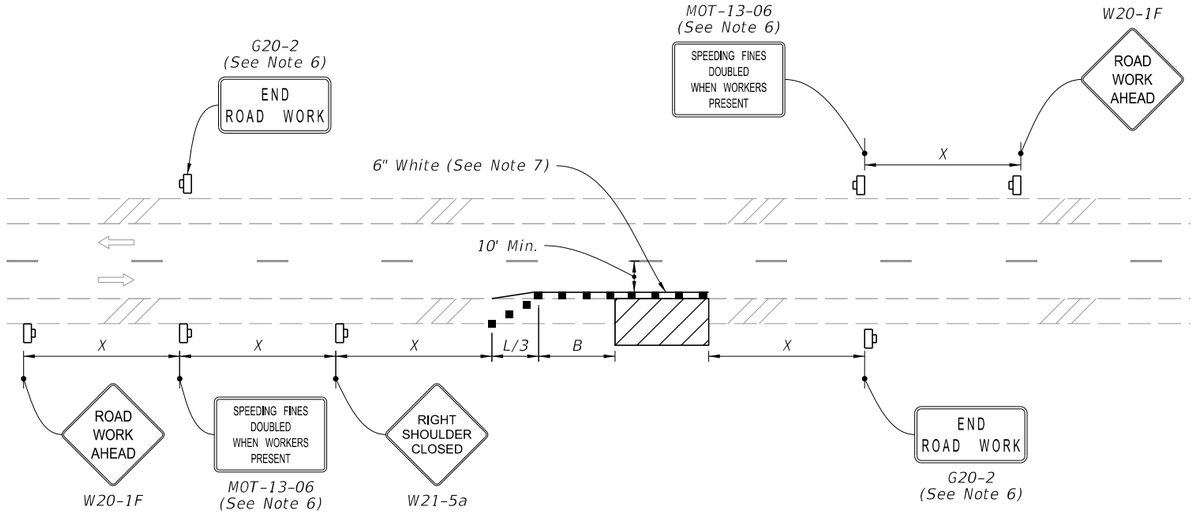
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

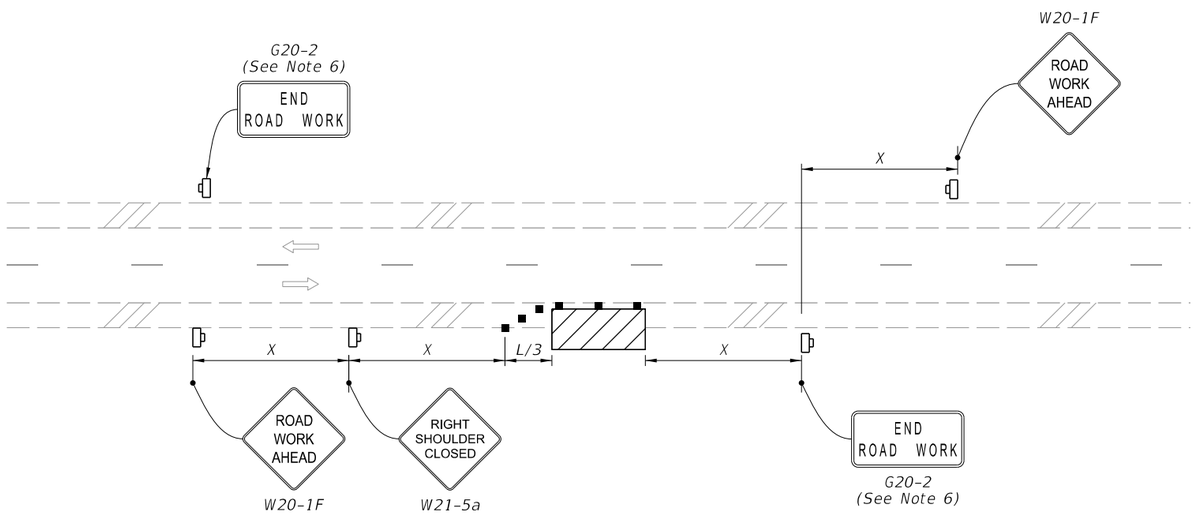
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



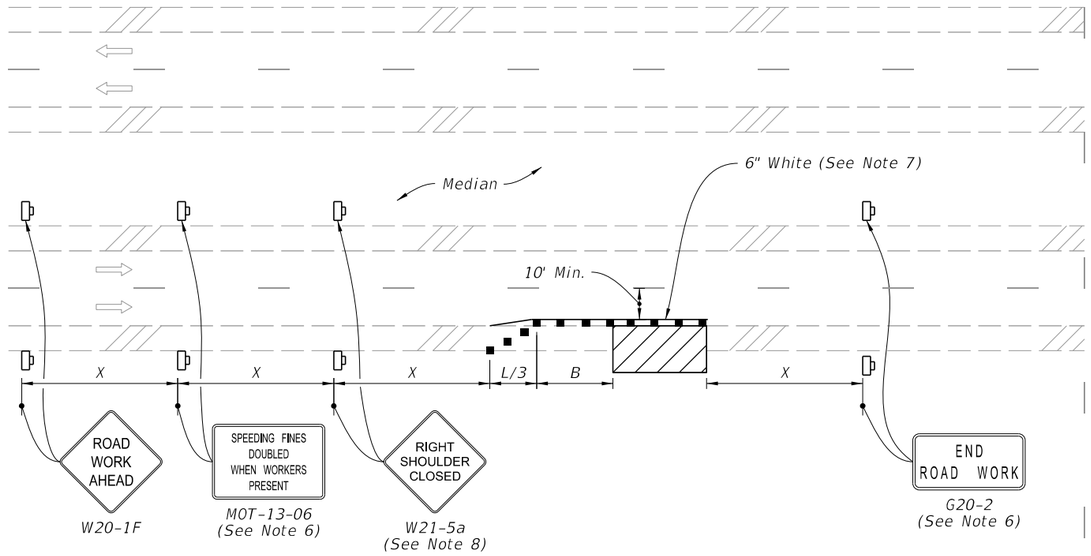
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



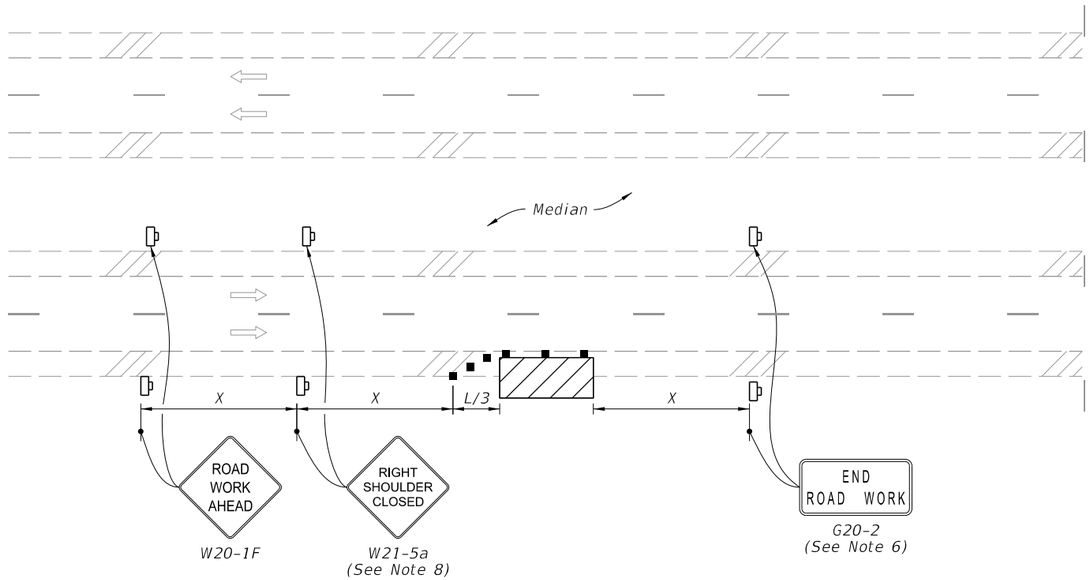
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FDOT FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

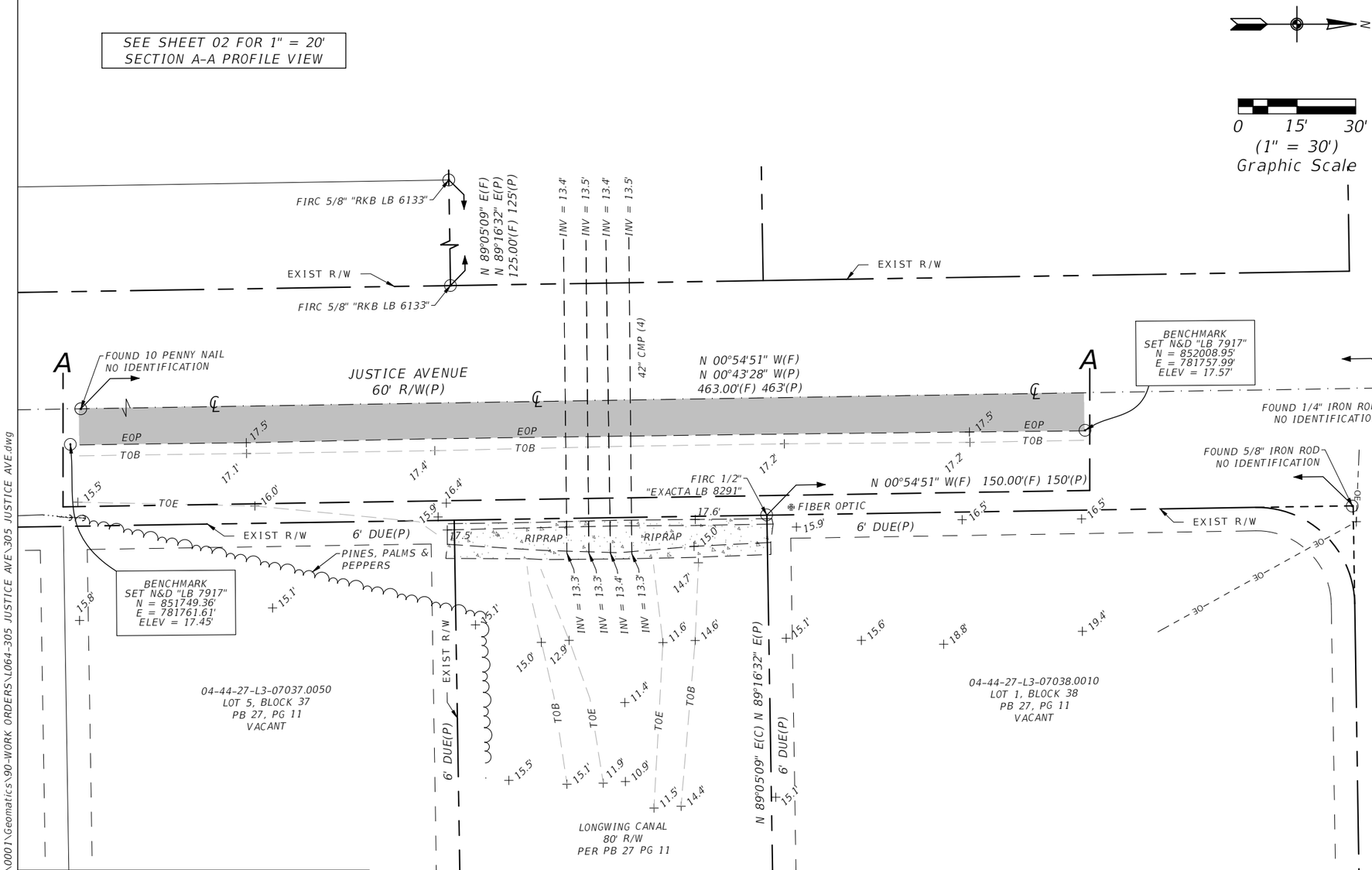
Topographic Survey of a Subject Project Site

lying within

Section 04, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



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Last day of field work: 01/06/2026

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License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

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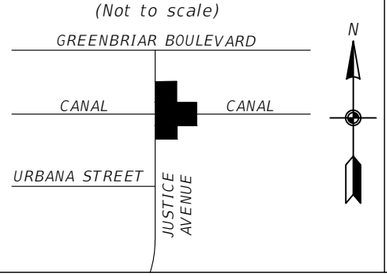

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Justice Avenue, Lehigh Acres

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File name: 305 JUSTICE AVE.dwg	Field book/page: 106981-4/12	Project No.: 106980001-L064	
Survey date: 01/06/2026	Drawn by: JRB	Checked by: TJH	Sheet No.: 01 OF 02

\\mckimcreed.com\nasuni\Data\Proj\10698\0001\Geomatics\90-WORK ORDERS\L064-305 JUSTICE AVE\305 JUSTICE AVE.dwg

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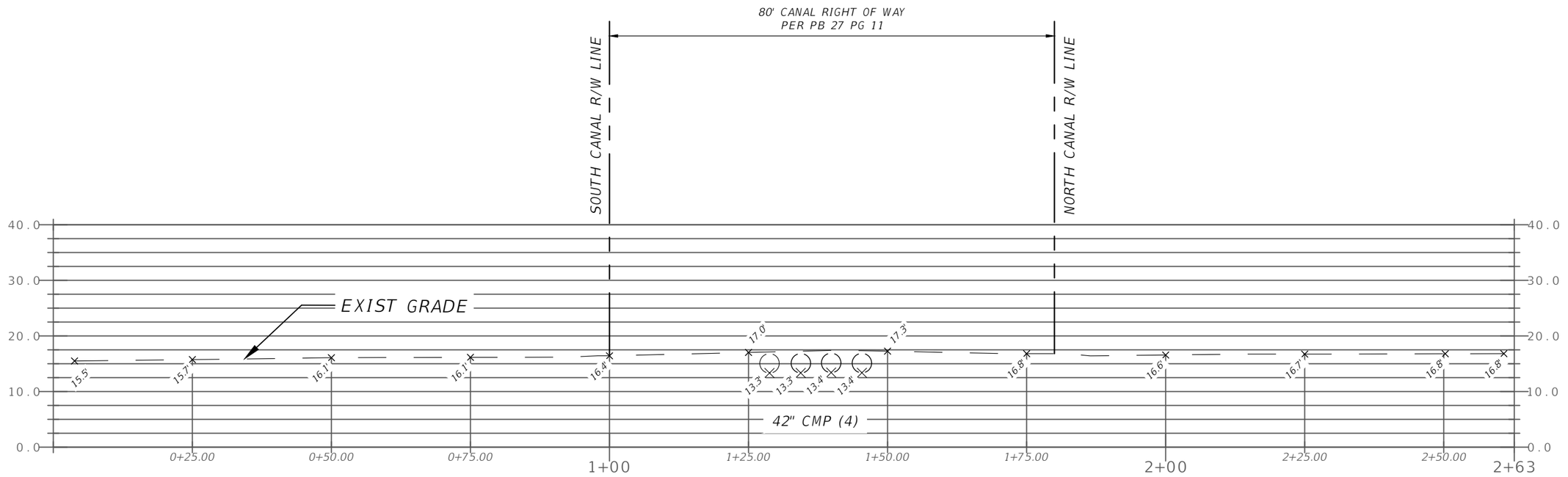

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SEE SHEET 01 FOR LEGEND

Justice Avenue, Lehigh Acres

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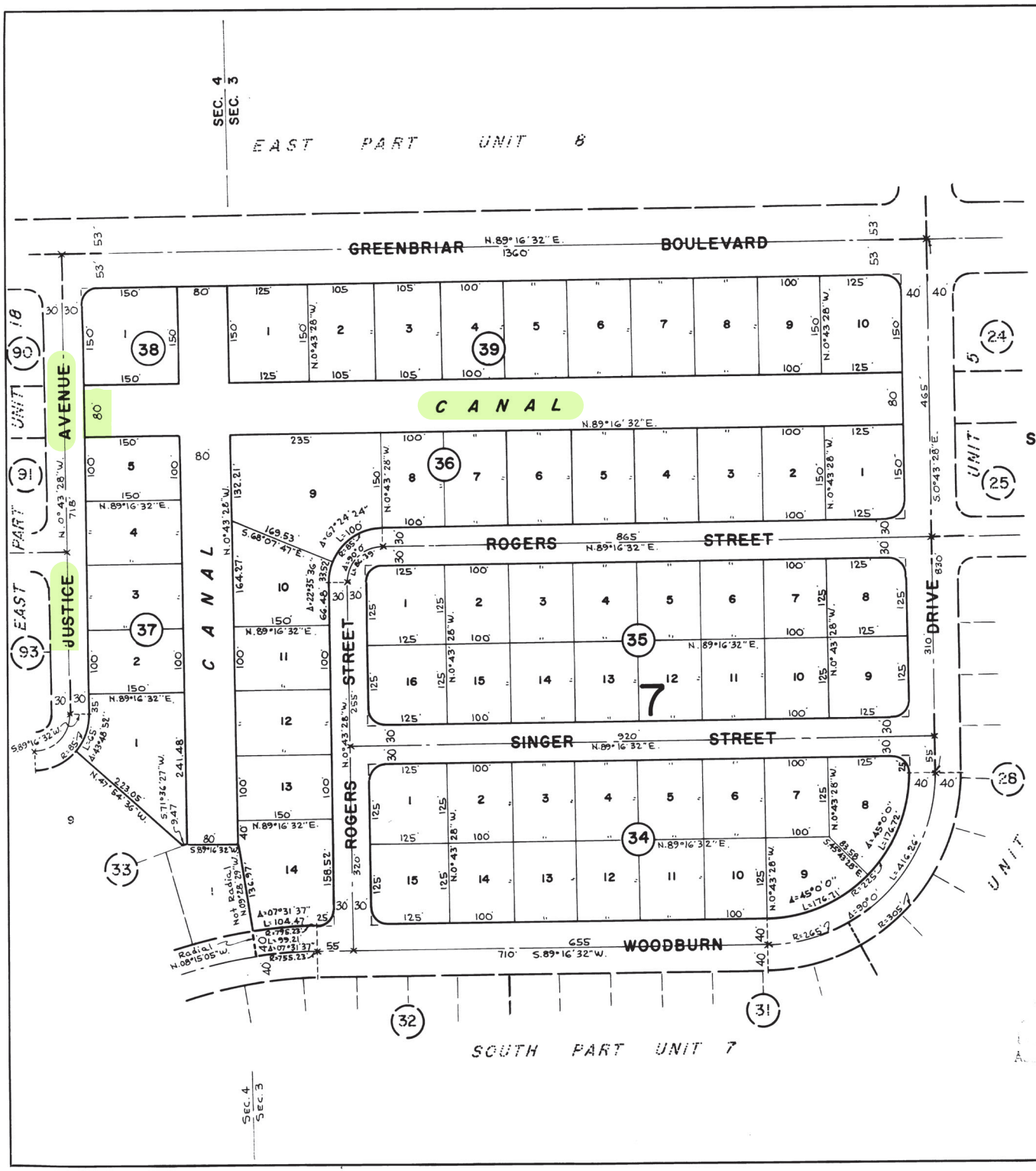
PLAT BOOK 27 PAGE 11



PLAT OF
NORTH PART UNIT 7
GREENBRIAR
SECTION 3 & 4, TWP. 44 S., RGE. 27 E.

A SUBDIVISION OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

100 50 0 100 200

SCALE IN FEET

All lots & parcels subject to a 6 foot Utility and Drainage Easement on both sides, front, and back.

All corner lot radii are 25 feet except as shown and the lot dimensions are to the straight line intersections, except where arc distances are shown.

PART IV #26-80

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ **Approved ___ Denied ___**

District Manager: _____ **Date**: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Longwing Canal (47-5-2) at 305 Justice Ave., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Longwing Canal (47-4-2), along the west side of Richmond Ave. N., between Greenbriar Blvd. & Mercedes Ct., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-81

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-81 is approved according to the plans submitted April 30th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 80' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Richmond Ave. N.

04 - 15 - 26

26 - 81

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: WILLIAM KIEFER **PHONE #:** (515) 306 - 3403

PROJECT NAME: LE1_002_FDH_018 401 GREENBRIAR BLVD - LONGWING CANAL 47-4-2 ~~47-5-4~~

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 401 GREENBRIAR BLVD					
Mailing Address:	N/A				
City:	LEHIGH ACRES	**State:**	FLORIDA	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary*):

0	4	-	4	4	-	2	7	-	L	4	-	1	5	0	7	1	-	0	1	5	0

Brief description of proposed project:

Application for: DIRECTIONAL BORE 2x1.25" HDPE SDR 11 CONDUIT 80' IN THE LAMSID ROW OF LONGWING CANAL (47-4-2 ~~47-5-4~~) ALONG RICHMOND AVE N

RECEIVED
MAY 19 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$1950 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	LUMOS FIBER OF FLORIDA, LLC						
Mailing Address:	**Street:**	4100 MENDENHALL OAKS PKWY, SUITE 300					
City:	HIGH POINT	**State:**	NORTH CAROLINA		**Zip:**	27265	
Phone No.	**Area Code:**	515	**Number:**	306 - 3403	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	WILLIAM.KIEFER@LUMOSFIBER.COM						

B. **Relationship of applicant to property*:**
Owner* ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee*** ☐

Contract Purchaser* ☐ **Other (indicate)*** ☑ UTILITY

C.

Name of Developer:	MILENIUM DIRECTIONAL DRILLING, INC						
Mailing Address:	**Street:**	5395 COGSWELL DR					
	WAYNE	**State:**	MI		**Zip:**	48184	
	Area Code:	(313)	**Number:**	326 - 2333	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	FELECAND@MILENIUMBORS.COM						

D.

Name of Authorized Agent(s):	CENTILLION SOLUTIONS						
Mailing Address:	**Street:**	6030 BETHELVIEW RD, SUITE 301					
City:	CUMMING		**State:**	GEORGIA		**Zip:**	30040
Phone No.	**Area Code:**	(480)	**Number:**	442 - 0562		**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	KYLE.PARKEY@CENTILLIONSOLUTIONS.COM						

E.

Name of Property owner:	N/A						
Mailing Address:	**Street:**						
City:			**State:**			**Zip:**	
Phone No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

PRIMARY STRAP NUMBER:

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

WILLIAM KIEFER
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 28th day of April (m), 2026 (y), by William Kiefer who is personally know to me ~~or has~~ produced ~~_____ as identification.~~

ANDREW P. STEVENSON
Notary Public, North Carolina
Guilford County
My Commission Expires
November 06, 2026

Andrew P. Stevenson
SIGNATURE OF NOTARY PUBLIC

Andrew P. Stevenson
PRINTED NAME OF NOTARY PUBL

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

ENGINEER

Name:	MCKIM & CREED						
Mailing Address:	5701 DIVISION DR, STE A						
City:	FORT MYERS	**State:**		FLORIDA		**Zip:**	33905
Business No.	**Area Code:**	(239)	**Number:**	980 - 3384		**Ext.**	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	BLAIR CONSULTING SERVICES, INC						
Mailing Address:	1428 SUNBLUSH LN						
City:	LAS VEGAS	**State:**		NV		**Zip:**	89117
Business No.	**Area Code:**	(813)	**Number:**	579 - 0128		**Ext.**	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
NA	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
NA	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
NA	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/26/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-81	Lumos Bore under Longwing Canal (47-4-2) At Richmond Ave. N.	Total Fee $3,900.00
	Permit Fee: $750.00 + $15 x 80' R/W	Due From Deposit
	= $750 + $1,200	
	= $1,950.00 x 2 (Double Fee) Bore Already Installed	
	Total Fee = $3,900.00	
		TOTAL $3,900.00

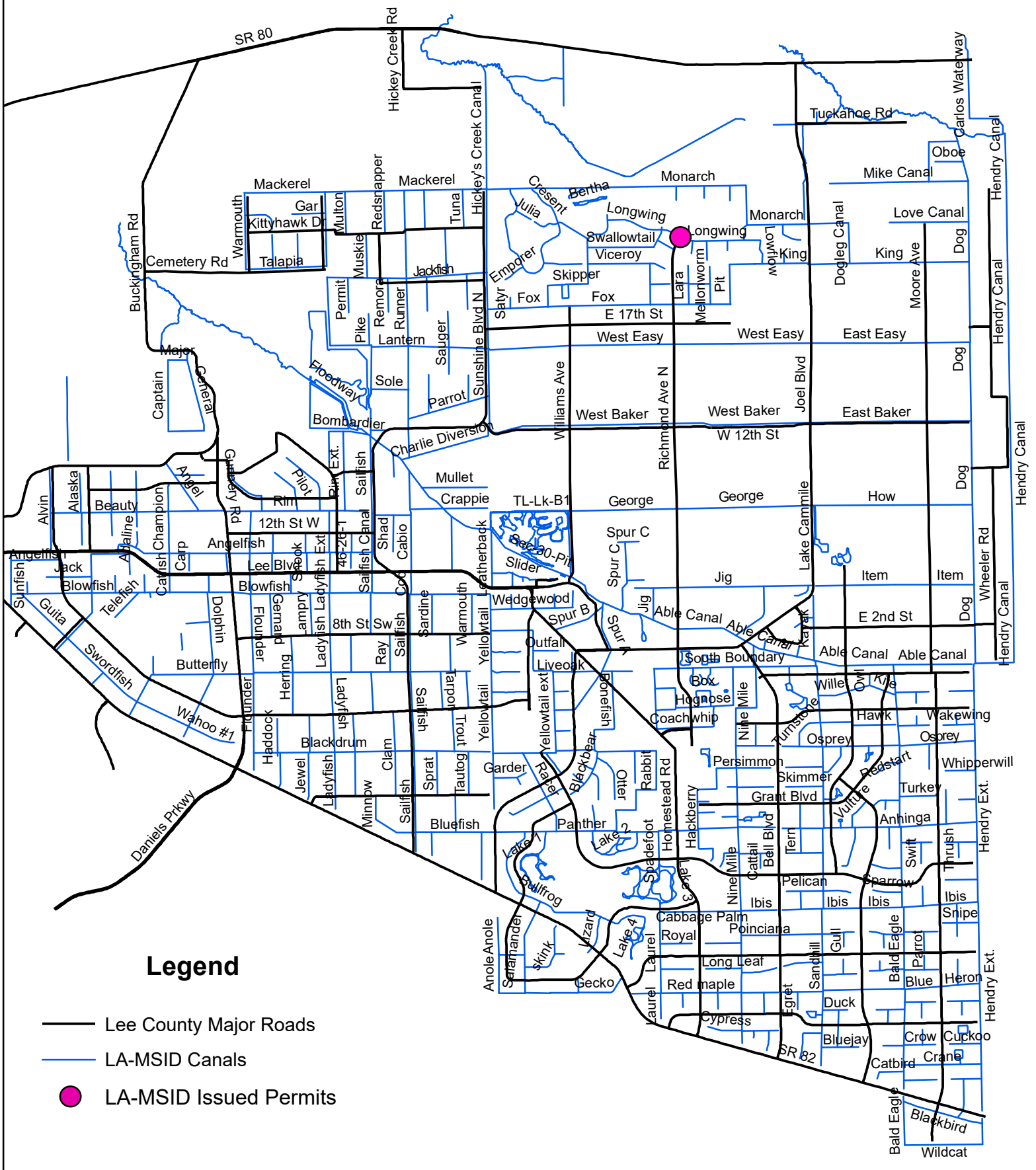
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/26/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs. Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry.**

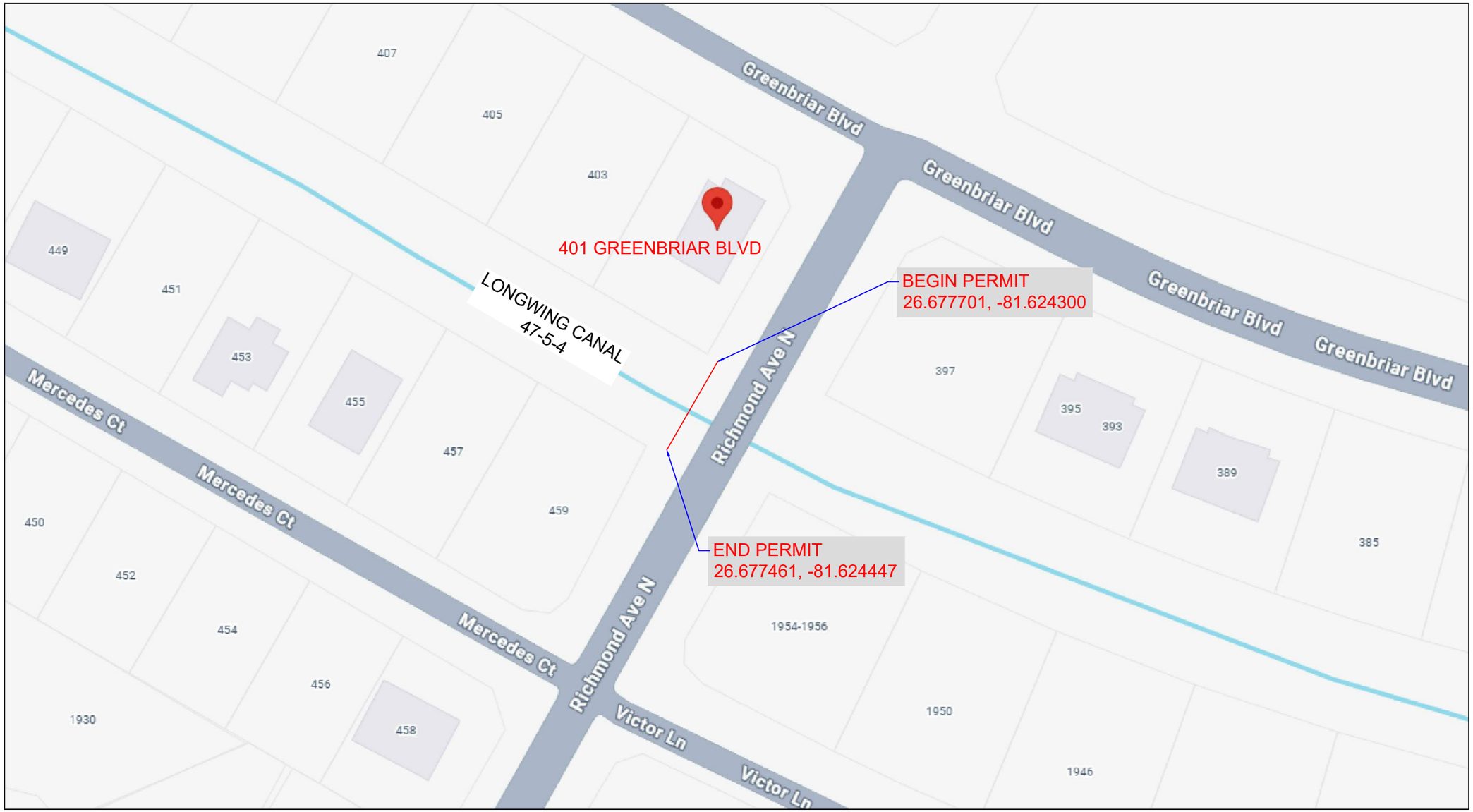
*The CR account will need to be changed based on the customer. See accounting to setup new customer deposit accounts

Permit # 2026-81



LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL

401 GREENBRIAR BLVD, LEHIGH ACRES, FL 33972 (26.677564, -81.624362)



PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 270' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 96-CT FIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
1	COVER SHEET	7	PROFILE VIEW
2	SOW AND CONTACTS	8 - 9	IMAGES
3	LEGEND	10 - 12	TYPICALS
4 - 5	GENERAL NOTES		
6	PROJECT SHEETS		

PERMITTING AGENCY

LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

Blair Consulting Services, INC
1428 Sunblush Ln, Las Vegas, NV 89117
Fabio Perassi - Project Manager
fsperassi@gmail.com

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: COVER SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_018
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	1 OF 12

SCOPE OF WORK

- BURIED PLACEMENT OF 270' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 96-CT MICROFIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
William Kiefer - OSP Project Engineer
William.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

ENGINEERING COMPANY

Blair Consulting Services, INC
1428 Sunblush Ln,
Las Vegas, NV 89117

PROJECT MANAGER
Fabio Perassi
813-579-0128
fsperassi@gmail.com

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

LEE COUNTY ELECTRIC CO-OP
TOM BAILEY
(239) 656-2414

LUMOS FIBER OF FLORIDA, LLC
MARLON BROWN - SR DIRECTOR
MARLON.BROWN@LUMOSFIBER.COM
(540) 278-0304

FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

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LA - MSID

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BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: SOW & CONTACTS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_018
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	2 OF 12

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F	
	IN: 0
	OUT: 0

SEQUENTIAL CALLOUT

#F	
	IN: 0
	TAIL: 0

SEQUENTIAL IN TAIL CALLOUT

#F	
	TAIL: 0
	OUT: 0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

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LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: LEGEND

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_018
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	3 OF 12

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

PERMITTING AGENCY

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:	GENERAL NOTES
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_018
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	4 OF 12

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORKZONE.

SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

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REVISION DATA

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SHEET TITLE:

GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_018
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	5 OF 12

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0 10' 20' 30' 40'
SCALE: 1"=40'

PROPOSED UTILITY MARKER 00+95

PROPOSED BORE PIT 00+00

PROPOSED UTILITY MARKER 01+75

PROPOSED BORE PIT 02+70

DIRECTIONAL BORE:
- (2) 1.25" HDPE SDR 11 CONDUIT
- 270'
- MINIMUM DEPTH = 172.8" STA– 00+95 TO 01+75

LONGWING CANAL
47-5-4

LONGWING CANAL
47-4-2

GREENBRIAR BLVD

RICHMOND AVE N

MERCEDES CT

01+51

80'

22'

15'

13'

6'

R/W

ESMT

EOP

MKR

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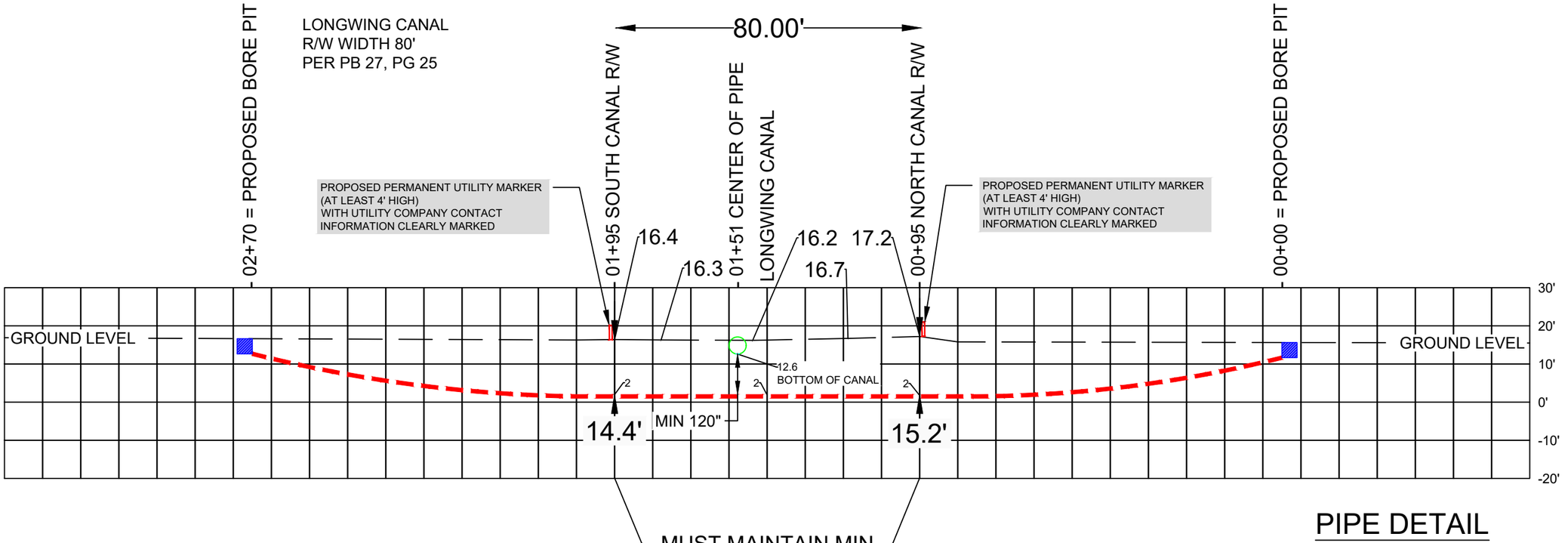
SHEET TITLE: PROJECT SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_018
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	6 OF 12

SUB-GRADE VERTICAL PROFILE VIEW
RODERICK LN
LOOKING WEST



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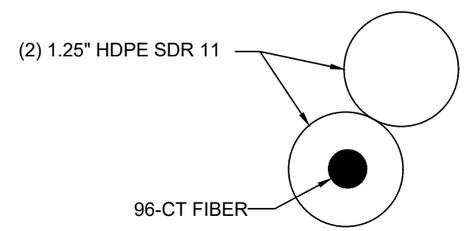
PIPE DETAIL



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0 10' 20' 30'
SCALE: 1"=30'

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REVISION DATA

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SHEET TITLE:
PROFILE VIEW

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_018
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	7 OF 12

STREET LEVEL VIEW
STA 00+95
FACING SOUTH

04/07/2026 11:45AM
26.677701, -81.624300
401 GREENBRIAR BLVD
LEHIGH ACRES, FL 33972

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SHEET TITLE: IMAGES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_018
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	8 OF 12

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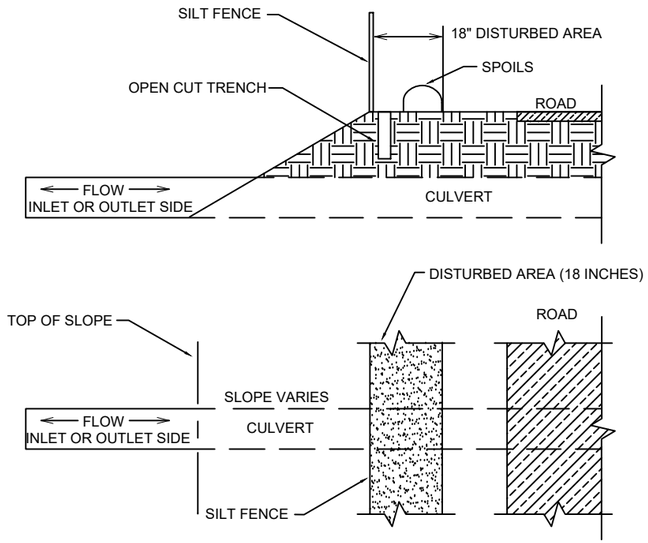
SHEET TITLE: IMAGES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_018
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	9 OF 12

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

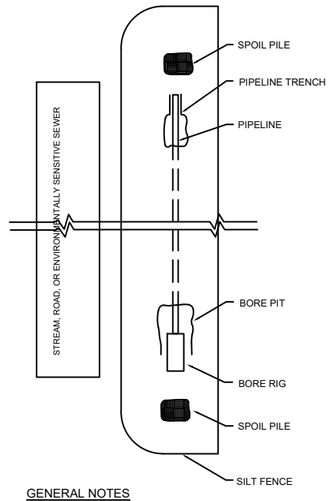
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

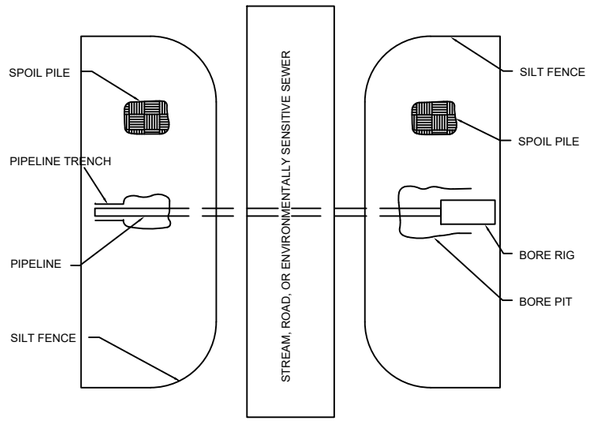


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

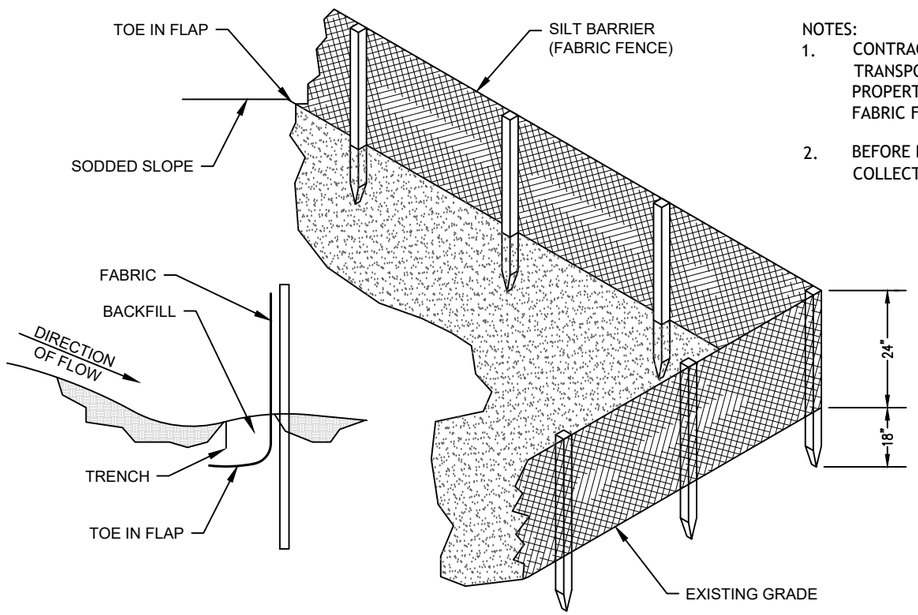
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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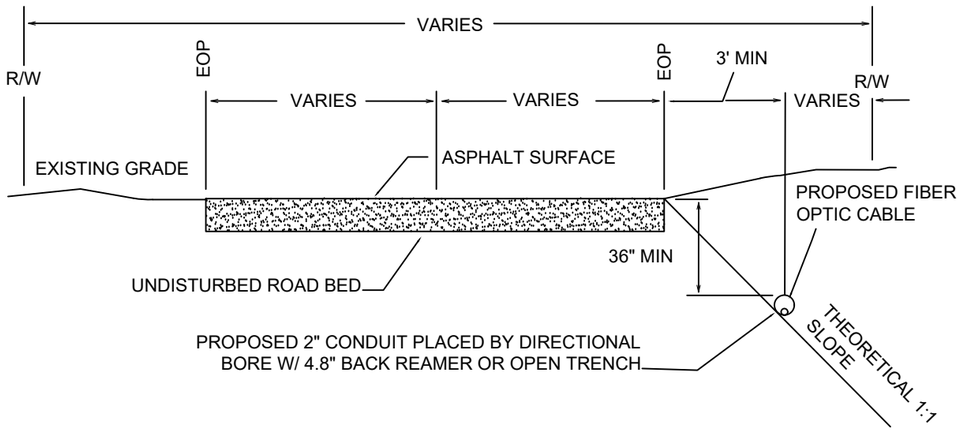
SHEET TITLE: TYPICALS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_018
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	10 OF 12

TYPICALS

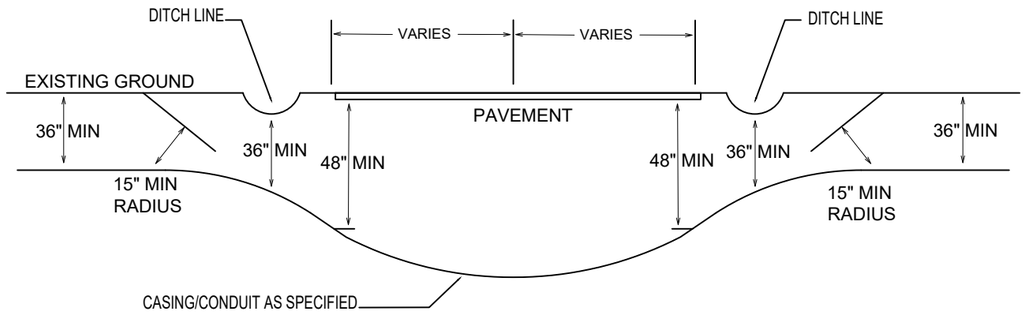
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



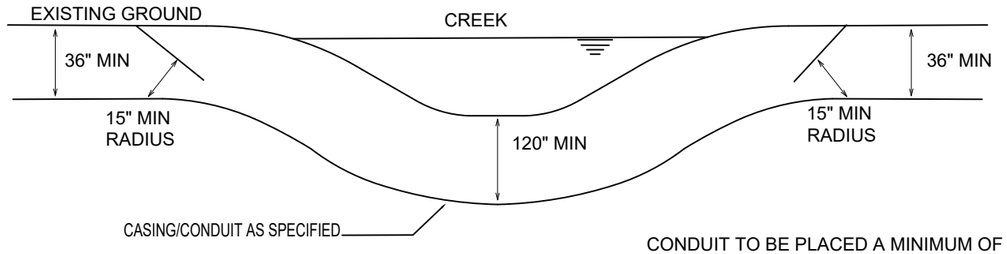
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

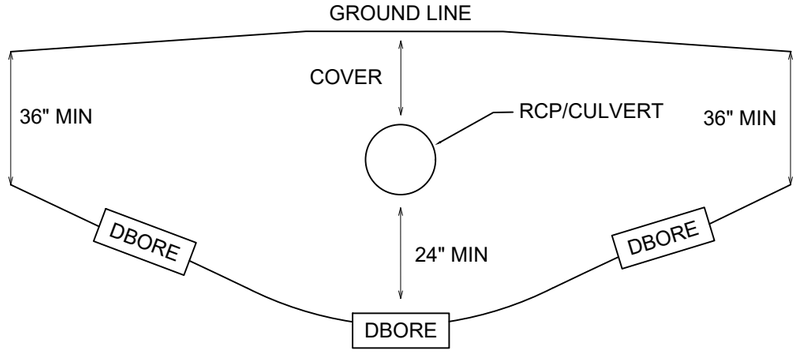
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 10 FEET BELOW CREEK BED

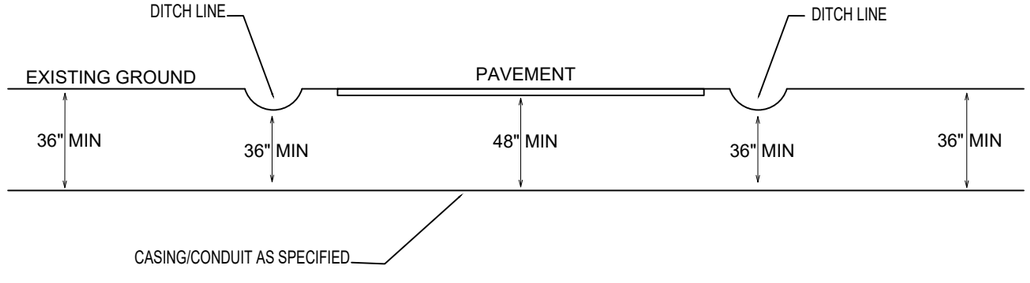
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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LAS VEGAS, NV 89117

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EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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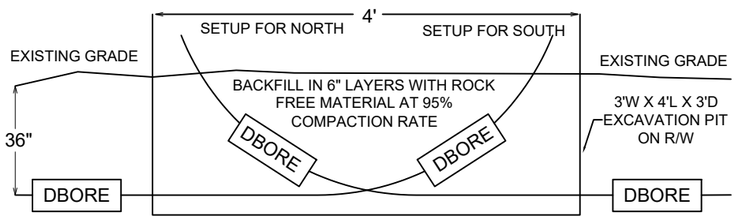
----	----	----	----

SHEET TITLE:	TYPICALS
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_018
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_018 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	11 OF 12

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

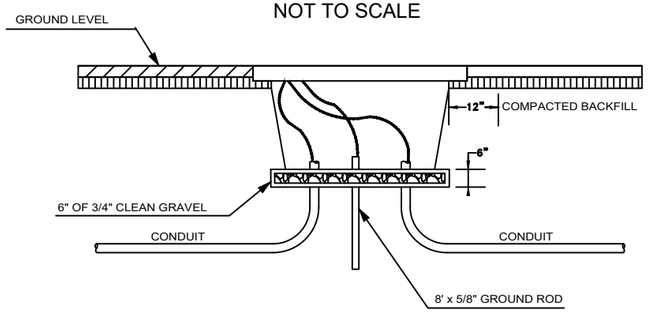


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

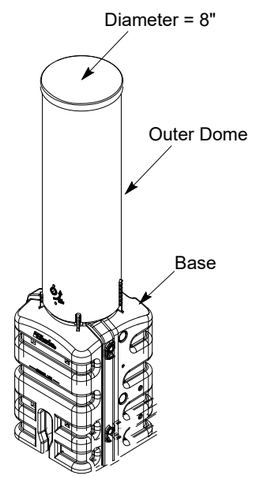
PULL BOX HANDHOLE

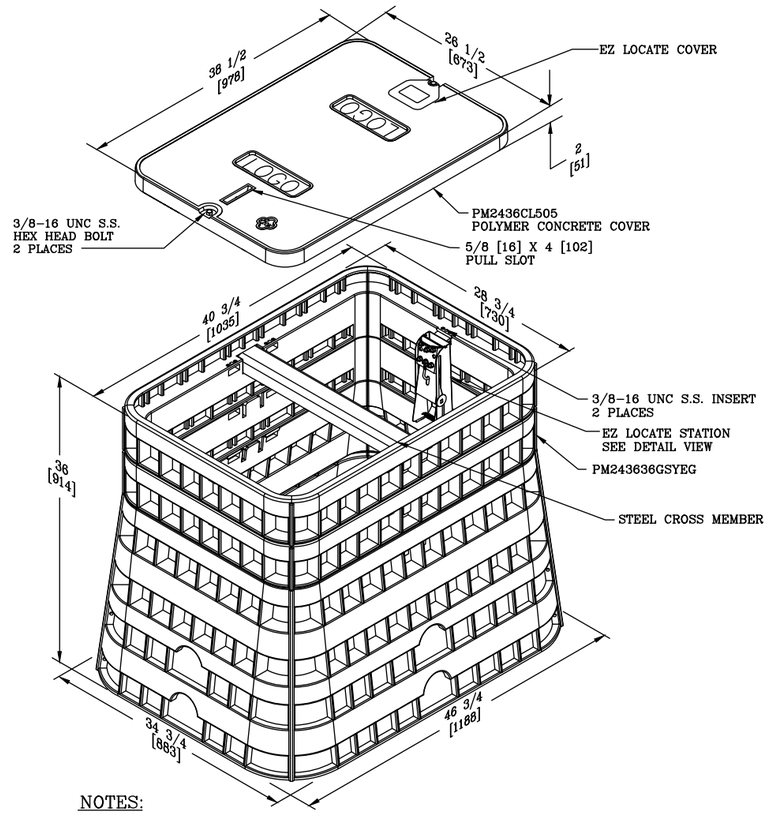
NOT TO SCALE



ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED ACCORDING TO THE PROCEDURES AND REQUIREMENTS SET FORTH IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652.

BDO204-EG

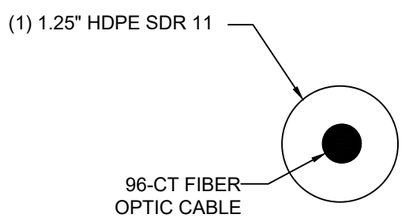




NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

PIPE DETAIL



PERMITTING AGENCY

LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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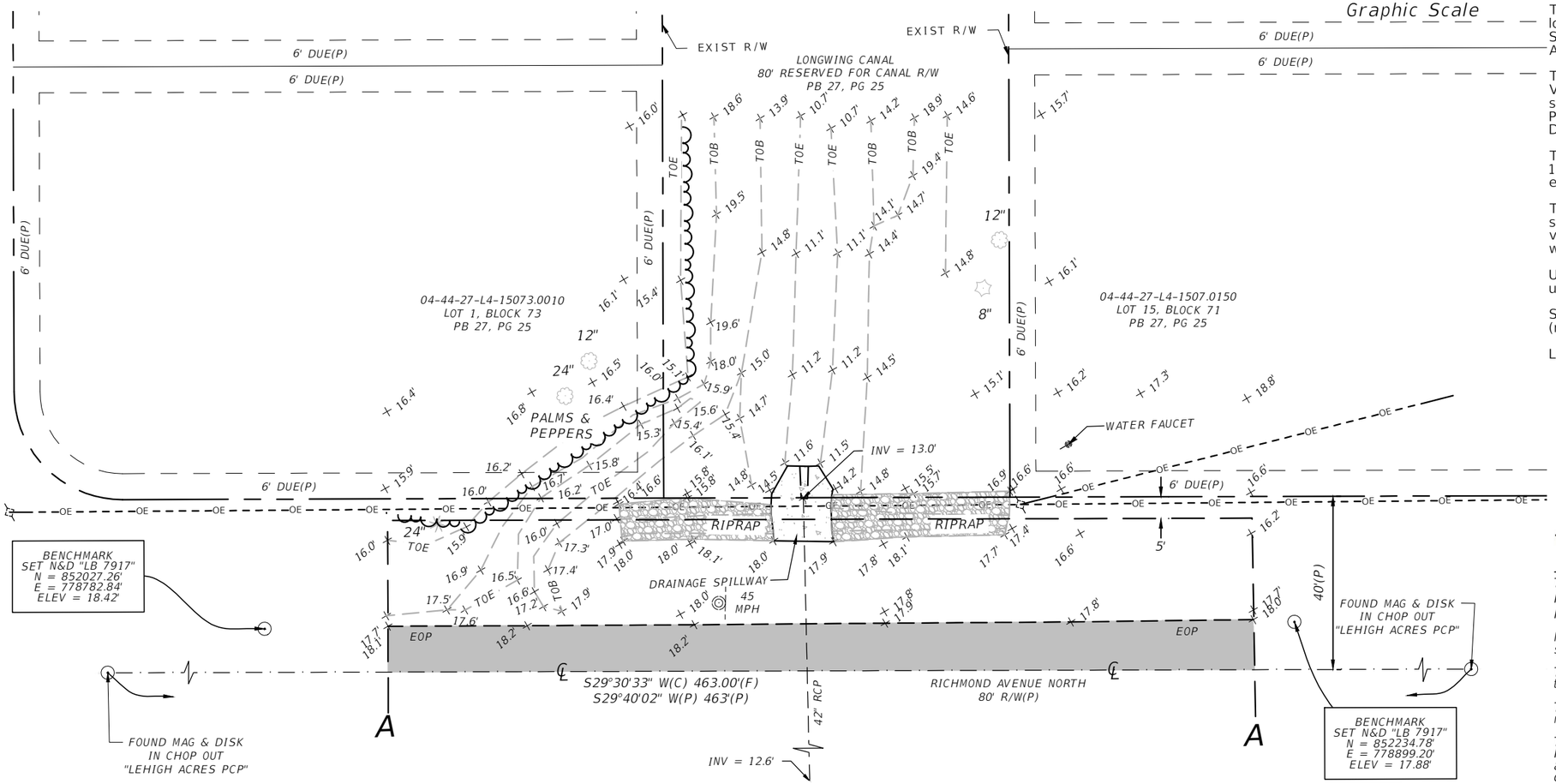
SHEET:	12 OF 12

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW



Topographic Survey of a Subject Project Site

LYING WITHIN

Section 4, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida

NOTES:

Survey based on the plat of East Part Unit 15 as recorded in Plat Book 27 Page 25, Public Records of Lee County, Florida and existing monumentation.

This survey prepared Is a Topographic Survey for the purpose of locating the features within and adjacent to the Lehigh Acres Municipal Services Improvement District-managed facility Northwest of Richmond Avenue North between Greenbriar Boulevard and Mercedes Court.

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The subject site lies within Zone "X" per FEMA insurance rate map 125124 0336F (Published 08/28/2008), therefore has no base flood elevation.

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Underground improvements, utilities and/or foundations were not located unless otherwise noted. Wetlands, if any, were not located.

Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 01/06/2026

TAYLOR J. HENNINGE License Number 7279 STATE OF FLORIDA Professional Surveyor and Mapper

Taylor Henninge 2026.03.26 13:32:04-04'00'

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

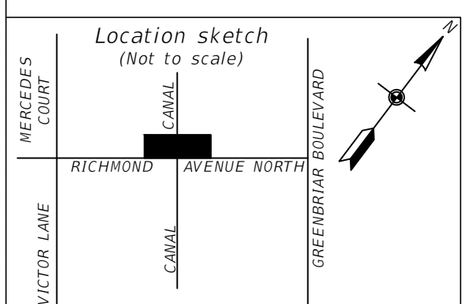
Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Location sketch
(Not to scale)



LEGEND:

(C)	= CALCULATED	INV	= INVERT ELEVATION
(P)	= PER PLAT	N&D	= NAIL AND DISK
(F)	= FIELD MEASURED	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
CB	= CATCH BASIN	OR	= OFFICIAL RECORDS BOOK
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CONC	= CONCRETE	R/W	= RIGHT OF WAY
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INST#	= INSTRUMENT NUMBER	(TYP)	= TYPICAL

= FOUND MONUMENT
OE = OVERHEAD UTILITY LINE
+20.0 = SPOT ELEVATION
= WIRE PULL BOX
= SINGLE SUPPORT SIGN
= PINE TREE
= PALM TREE
= OAK TREE
= ELECTRICAL POLE

Richmond Avenue North, Lehigh Acres

TOPOGRAPHIC SURVEY-PLAN VIEW

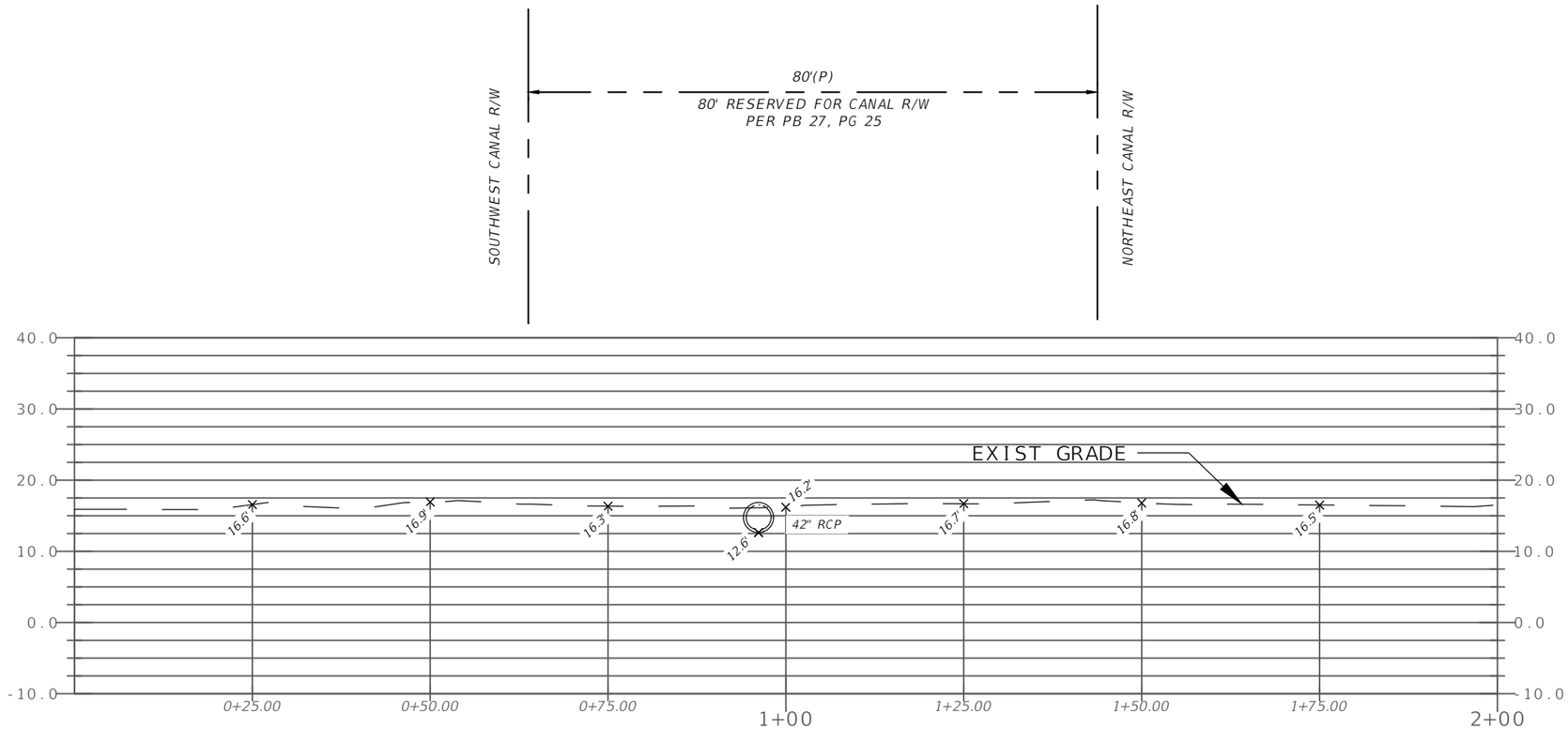
McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
L062-401 Greenbriar Blvd.dwg	106981-4/11	106980001-L062

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/06/2026	KB	TJH	01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L062-401 GREENBRIAR BLVD\L062-401 Greenbriar Blvd.dwg

Topographic Survey of a
Subject Project Site
Section 4, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Richmond Avenue North, Lehigh Acres

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I:\10698\0001\Geomatics\90-WORK ORDERS\L062-401 GREENBRIAR BLVD\L062-401 Greenbriar Blvd.dwg

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

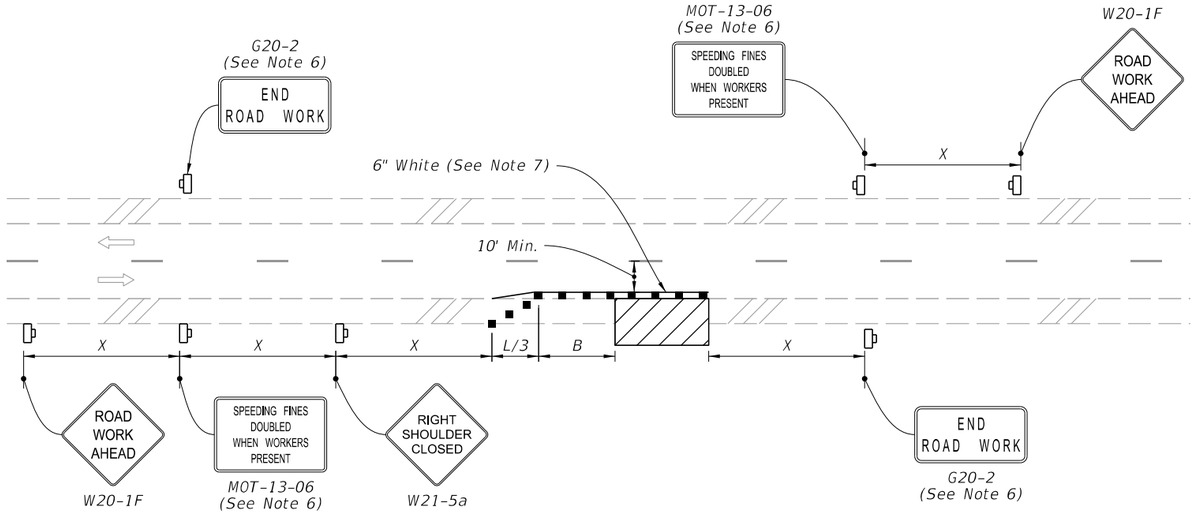
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

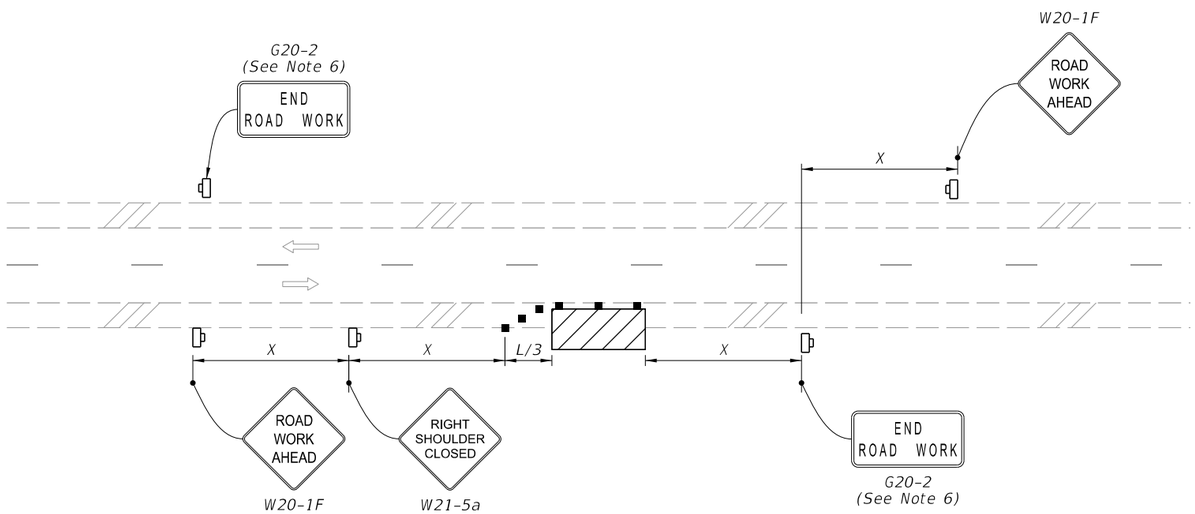
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



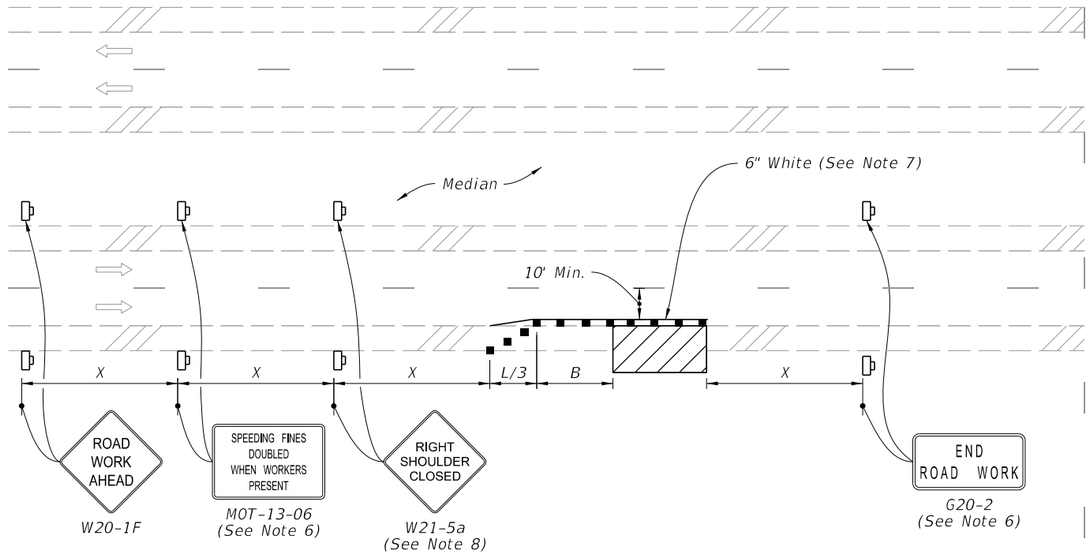
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



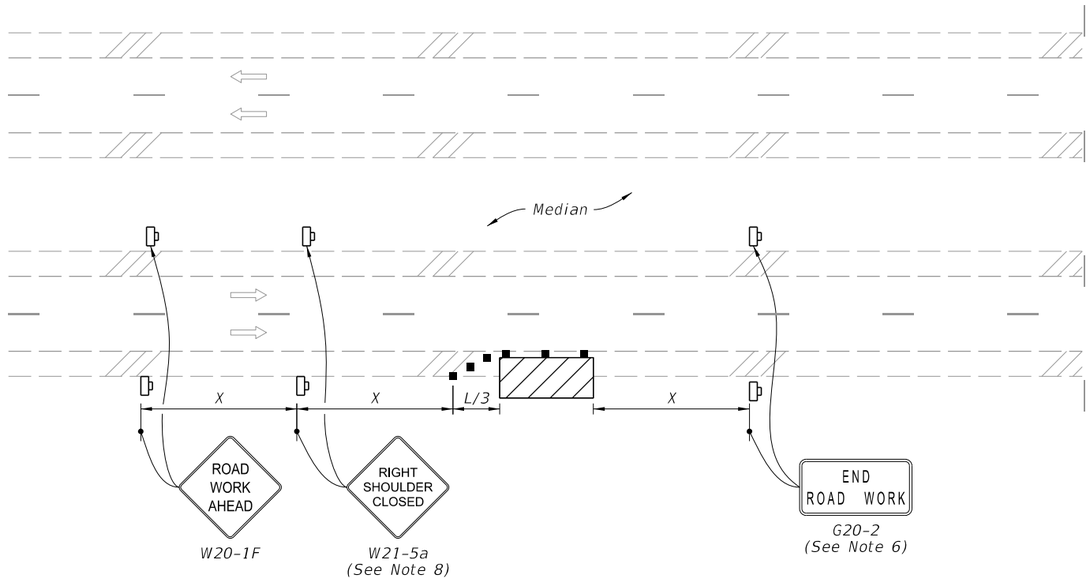
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



SYMBOLS:

- Work Area
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- Work Zone Sign
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MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FDOT FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW

Topographic Survey of a Subject Project Site

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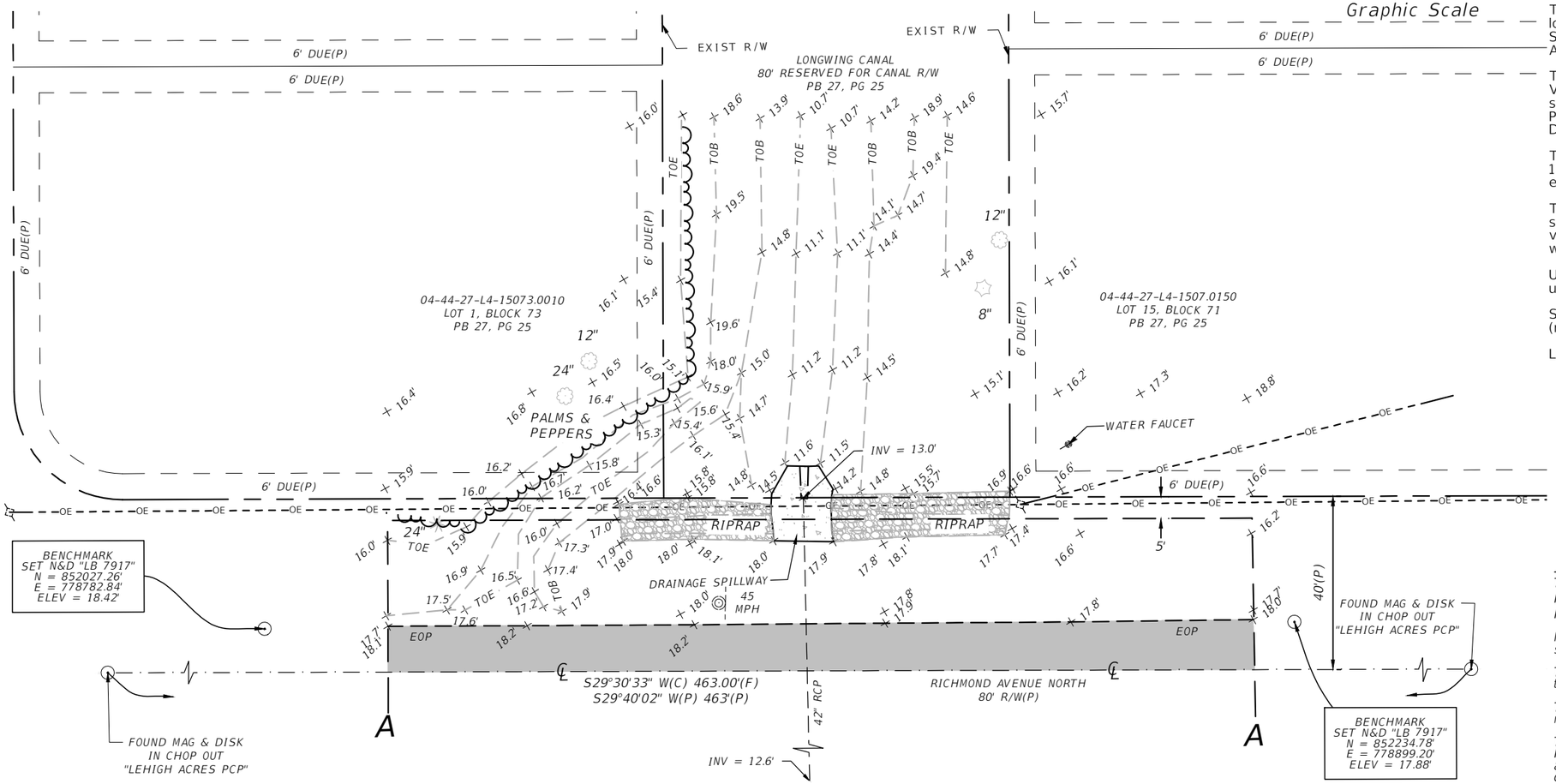
Lehigh Acres, Lee County, Florida



0 15' 30'
(1" = 30')
Graphic Scale

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7279
STATE OF
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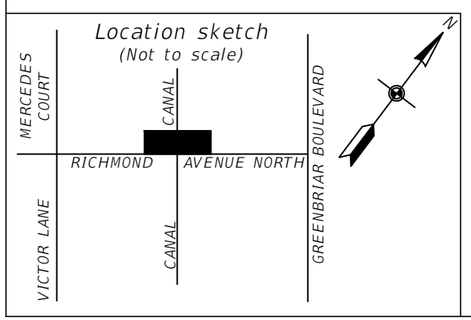

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Richmond Avenue North, Lehigh Acres

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L062-401 Greenbriar Blvd.dwg	106981-4/11	106980001-L062

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/06/2026	KB	TJH	01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L062-401 GREENBRIAR BLVD\L062-401 Greenbriar Blvd.dwg

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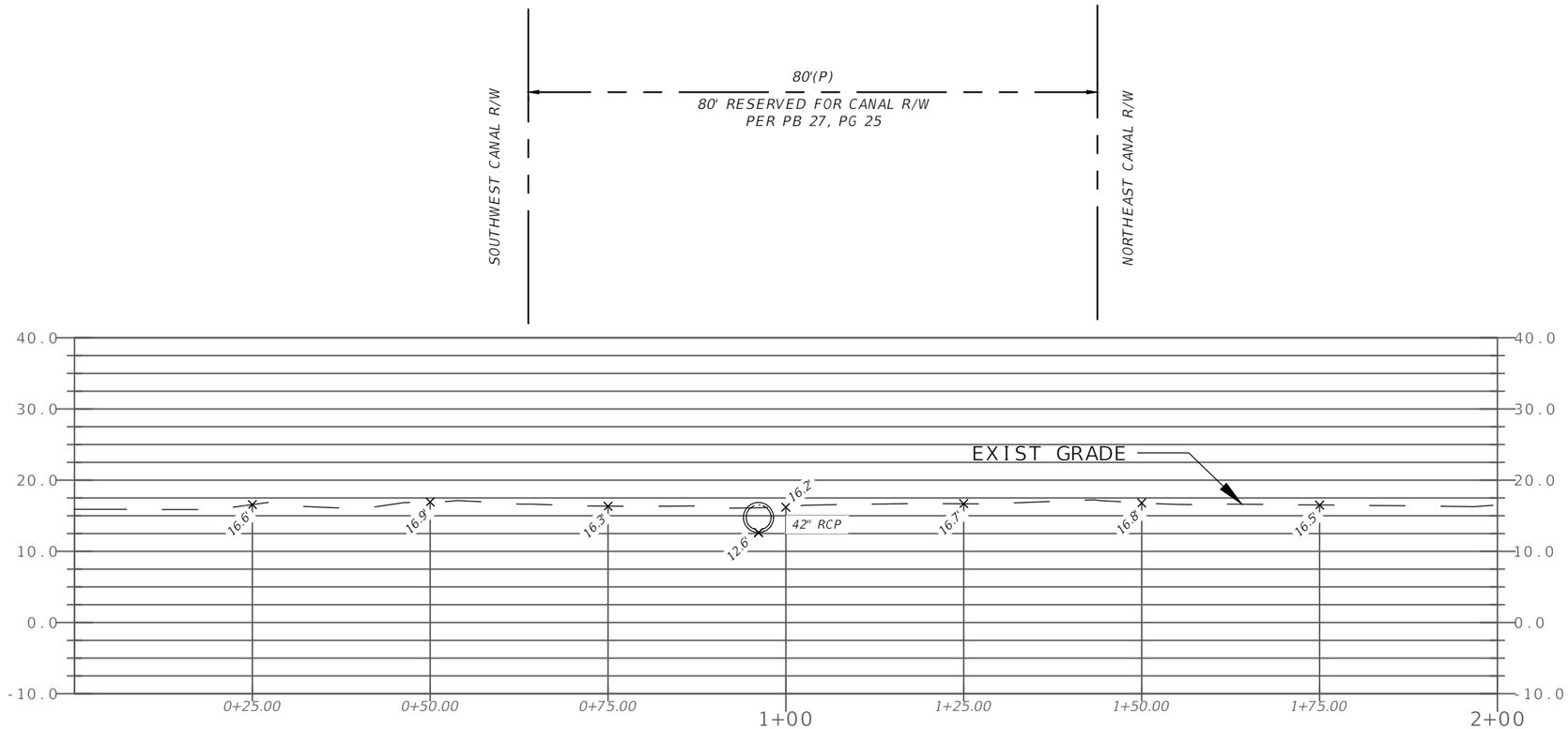

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Richmond Avenue North, Lehigh Acres

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01/06/2026	KB	TJH	02 OF 02

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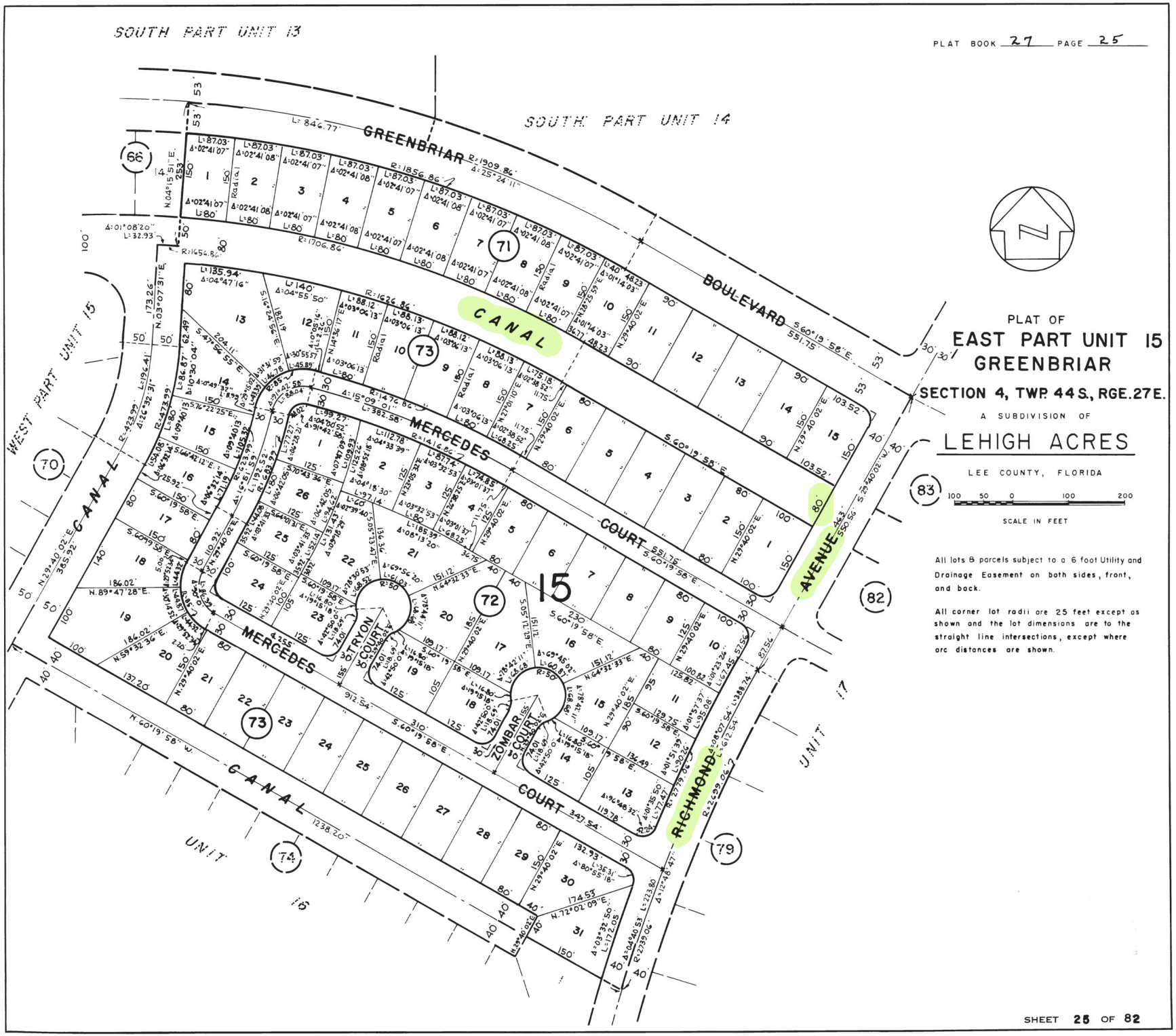


PLAT BOOK 27 PAGE 25

PLAT OF

EAST PART UNIT 15 GREENBRIAR

SECTION 4, TWP. 44 S., RGE. 27 E.

A SUBDIVISION OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

100 50 0 100 200

SCALE IN FEET

All lots & parcels subject to a 6 foot Utility and Drainage Easement on both sides, front, and back.

All corner lot radii are 25 feet except as shown and the lot dimensions are to the straight line intersections, except where arc distances are shown.

PART IV #26-81

Recommended Action

Engineering Review:

By: _____6/2/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ Approved ___ Denied ___

District Manager: _____ Date: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Longwing Canal (47-4-2) at 401 Greenbriar Blvd., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Lumos Fiber of Florida, LLC, 4100 Mendenhall Oaks Parkway, Suite 300, High Point, NC 27265, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Longwing Canal (47-5-4), along the west side of Roderick Lane, between Greenbriar Blvd. & Westchester Dr., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-82

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-82 is approved according to the plans submitted April 30th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 100' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Roderick Lane.

03 - 14 - 26

26 - 8Z

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: WILLIAM KIEFER **PHONE #:** (515) 306 - 3403

PROJECT NAME: LE1_002_FDH_15_1965 RODERICK LN - LONGWING CANAL

TOTAL ACREAGE: N/A

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 1965 RODERICK LN					
Mailing Address:	N/A				
City:	LEHIGH ACRES	**State:**	FLORIDA	**Zip:**	33972

STRAP NUMBERS (*attach additional sheet if necessary*)**:**

0	5	-	4	4	-	2	7	-	L	2	-	2	6	1	6	7	-	0	0	1	0
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				

Brief description of proposed project:

Application for: DIRECTIONAL BORE 2x1.25" HDPE SDR 11 CONDUIT 100' IN THE LAMSID ROW OF LONGWING CANAL (47-5-4) ALONG RODERICK LN

Is the project proposed to be developed in phases? ☐ Yes ☑ No

Estimated # of Phases:	1
***Permit Fee:**	$2250.00 **(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	LUMOS FIBER OF FLORIDA, LLC						
Mailing Address:	**Street:**	4100 MENDENHALL OAKS PKWY, SUITE 300					
City:	HIGH POINT	**State:**	NORTH CAROLINA		**Zip:**	27265	
Phone No.	**Area Code:**	515	**Number:**	306 - 3403	**Ext.**		
Fax No.	**Area Code:**		**Number:**	-			
E-mail Address:	WILLIAM.KIEFER@LUMOSFIBER.COM						

B. Relationship of applicant to property*:

Owner* ☐ **Trustee*** ☐ **Option holder*** ☐ **Lessee*** ☐

Contract Purchaser* ☐ **Other (indicate)*** ☑ UTILITY

C.

Name of Developer:	MILENIUM DIRECTIONAL DRILLING, INC						
Mailing Address:	**Street:**	5395 COGSWELL DR					
	WAYNE	**State:**	MI		**Zip:**	48184	
	Area Code:	(313)	**Number:**	326 - 2333	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	FELECAND@MILENIUMBORS.COM						

D.

Name of Authorized Agent(s):	CENTILLION SOLUTIONS						
Mailing Address:	**Street:**	6030 BETHELVIEW RD, SUITE 301					
City:	CUMMING	**State:**	GEORGIA		**Zip:**	30040	
Phone No.	**Area Code:**	(480)	**Number:**	442 - 0562	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:	KYLE.PARKEY@CENTILLIONSOLUTIONS.COM						

E.

Name of Property owner:	N/A						
Mailing Address:	**Street:**						
City:		**State:**			**Zip:**		
Phone No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Fax No.	**Area Code:**	( )	**Number:**	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

	-	-	-	-	-

PRIMARY STRAP NUMBER:

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

William Kiefer
SIGNATURE OF APPLICANT

WILLIAM KIEFER
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 28th day of April (m), 2026 (y), by William Kiefer who is personally know to me ~~or has~~ produced ~~_____ as identification.~~

ANDREW P. STEVENSON
Notary Public, North Carolina
Guilford County
My Commission Expires
November 06, 2026

Andrew P. Stevenson
SIGNATURE OF NOTARY PUBLIC

Andrew P. Stevenson
PRINTED NAME OF NOTARY PUBL

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**				**Zip:**	
Business No.	**Area Code:**	( )	**Number:**	-		**Ext.**	
Other Contact:							

ENGINEER

Name:	MCKIM & CREED						
Mailing Address:	5701 DIVISION DR, STE A						
City:	FORT MYERS	**State:**		FLORIDA		**Zip:**	33905
Business No.	**Area Code:**	(239)	**Number:**	980 - 3384		**Ext.**	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:	BLAIR CONSULTING SERVICES, INC						
Mailing Address:	1428 SUNBLUSH LN						
City:	LAS VEGAS	**State:**		NV		**Zip:**	89117
Business No.	**Area Code:**	(813)	**Number:**	579 - 0128		**Ext.**	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
NA	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
NA	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
NA	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

PERMIT DEPOSIT TRANSFER FORM

DATE: 5/26/26

CUSTOMER	DR	CR*
Lumos/Gridiron/T-Fiber	0326-0000-220-0001	0326-0000-329-0001

PERMIT#	DESCRIPTION	AMOUNT
26-82	Lumos Bore Under Longwing Canal (47-5-4) At Roderick Lane	Total Fee $2,250.00
	Permit Fee: $750 + $15 x 100' R/w = $750 + $1,500	Due From Deposit
	Total Fee = 2,250.00	
	TOTAL	$2,250.00

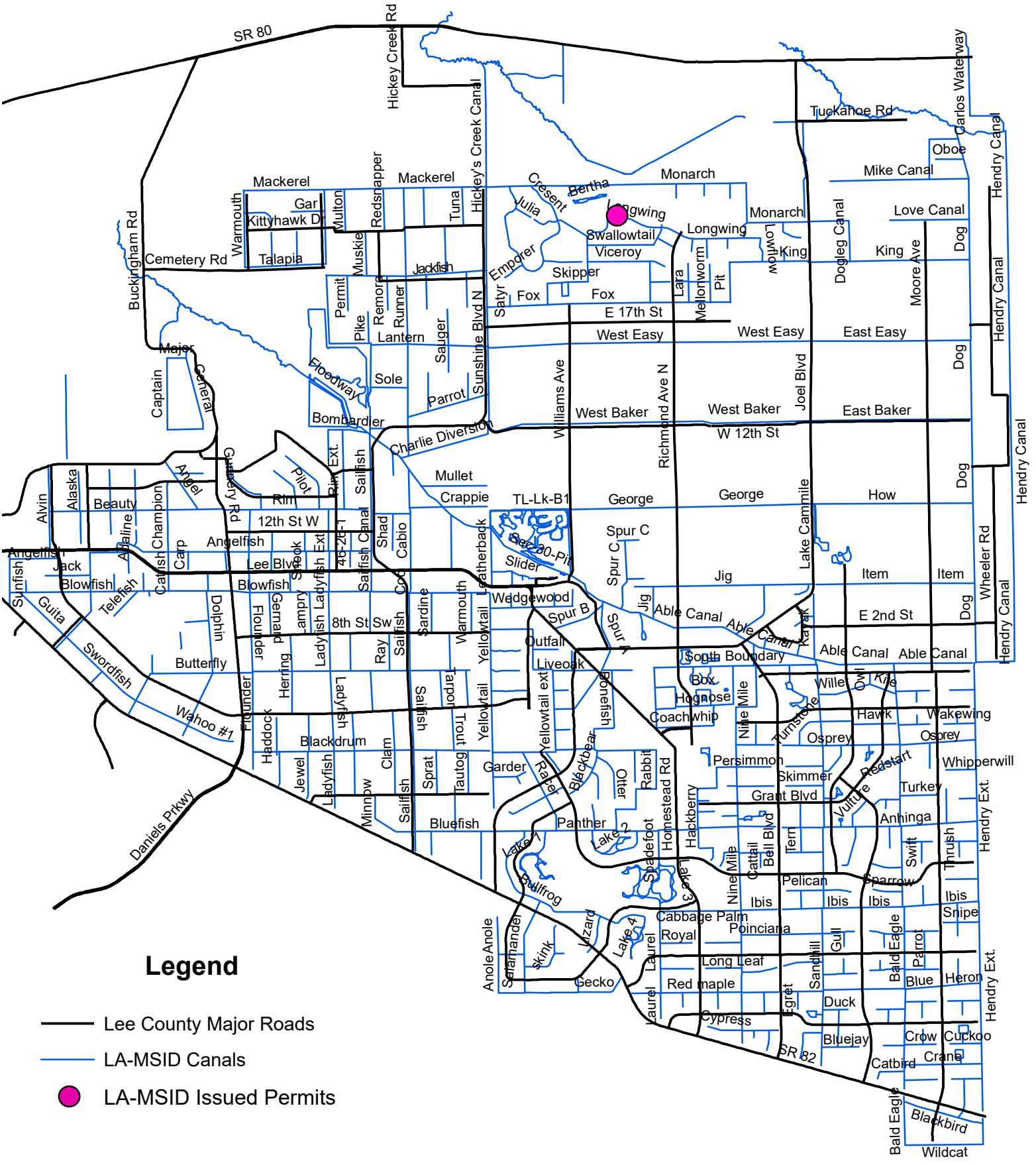
PERMIT REVIEWER SIGNATURE: Michael S. Cook DATE: 5/26/26

ACCOUNTING SIGNATURE: DATE:

INSTRUCTIONS: Permit Reviewer fills out date, permit #'s, amounts, and signs Form is then given to accounting to make a journal entry in order to move the money from the deposit account to the revenue account and signs. **This form will be filed as backup with the journal entry**

*The CR account will need to be changed based on the customer See accounting to setup new customer deposit accounts

Permit # 2026-82

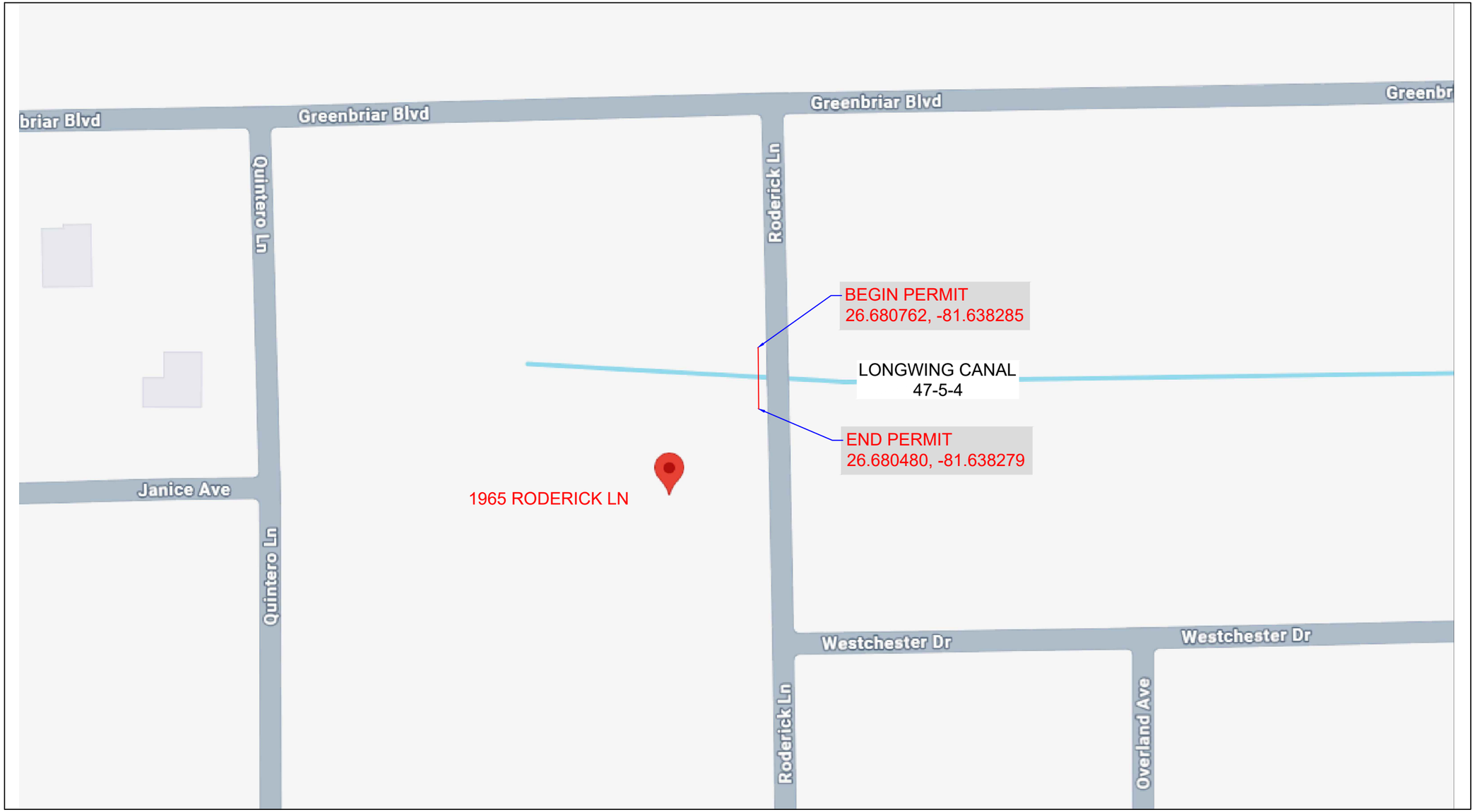


Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

LE1_002_FDH_015 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL

1965 RODERICK LN, LEHIGH ACRES, FL 33972 (26.680626, -81.638231)



PERMIT #:

PROJECT DESCRIPTION

- BURIED PLACEMENT OF 290' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 48-CT FIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
1	COVER SHEET	7	PROFILE VIEW
2	SOW AND CONTACTS	8 - 9	IMAGES
3	LEGEND	10 - 12	TYPICALS
4 - 5	GENERAL NOTES		
6	PROJECT SHEETS		

PERMITTING AGENCY
LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

Blair Consulting Services, INC
1428 Sunblush Ln, Las Vegas, NV 89117
Fabio Perassi - Project Manager
fsperassi@gmail.com

LUMOS
William Kiefer - OSP Project Engineer
william.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE:	COVER SHEET
PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_015
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_015 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	1 OF 12

SCOPE OF WORK

- BURIED PLACEMENT OF 290' OF (2) 1.25" HDPE SDR 11 CONDUIT EQUIPPED WITH (1) 48-CT MICROFIBER OPTIC CABLE. (0) PROPOSED HANDHOLES.
- PIPE TO BE INSTALLED BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING AND HAND DIGGING METHODS.
- ALL AREAS DISTURBED BY INSTALLATION TO BE RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY OWNER CONTACTS

LUMOS
William Kiefer - OSP Project Engineer
William.kiefer@lumosfiber.com
Phone: (515) 306-3403

Jason Bush - Construction Manager
jason.bush@lumosfiber.com
Phone: (941)812-2913

ENGINEERING COMPANY

Blair Consulting Services, INC
1428 Sunblush Ln,
Las Vegas, NV 89117

PROJECT MANAGER
Fabio Perassi
813-579-0128
fsperassi@gmail.com

UTILITIES CONTACTS

CENTURYLINK
BILL MCCLOUD
(850) 815-3144

LEE COUNTY ELECTRIC CO-OP
TOM BAILEY
(239) 656-2414

LUMOS FIBER OF FLORIDA, LLC
MARLON BROWN - SR DIRECTOR
MARLON.BROWN@LUMOSFIBER.COM
(540) 278-0304

FLORIDA GOVERNMENTAL UTILITIES AUTHORITY - LEHIGH
POTABLE WATER/SANITARY SEWER
LINA MARIA QUINTERO, PE
(727) 858-2396

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
MICHAEL COOK
(239) 368-0044 Ext. 16
MCOOK@LA-MSID.COM
STORM WATER/CANALS

LEE COUNTY DEPARTMENT OF TRANSPORTATION (DOT)
COMMERCIAL RIGHT OF WAY USE PERMIT
(239) 533-8580
ROADS

FDOT
DISTRICT 1 - COUNTIES: CHARLOTTE, COLLIER, DESOTO, GLADES, HARDEE, HENDRY, HIGHLANDS, LEE, MANATEE, OKEECHOBEE, POLK, SARASOTA
801 N. BROADWAY AVENUE
BARTOW, FLORIDA 33830
PHONE: (800) 292-3368
PHONE: (239) 225-1900

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LA - MSID

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BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: SOW & CONTACTS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_015
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_015 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	2 OF 12

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- COMMUNICATION (COM)
- RECLAIM WATER (RCW)
- DITCH
- GUARDRAIL
- ROAD CENTERLINE
- EASEMENT (ESMT)
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- SANITARY SEWER (SEW)
- STORM DRAIN (SD)
- FENCE (X)
- CABLE TV (TV)
- STEAM (STM)
- OIL (OIL)
- UNKNOWN UTILITY (UNK)
- RIGHT OF WAY (R/W)
- EDGE OF PAVEMENT (EOP)
- SIDEWALK (S/W)

SYMBOL	DESCRIPTION
BP	BORE PIT
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
S/W	SIDEWALK
STA.	STATION

- CB — CABINET
- P — PEDESTAL
- E — ELECTRIC
- EM — ELECTRIC METER
- MH — MANHOLE
- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- UTILITY POLE – EXISTING
- OWNER ID — POLE – PROPOSED
- HH — HANDHOLE – EXISTING
- HH — HANDHOLE – PROPOSED
- PD — PEDESTAL – PROPOSED
- MKR — PROMARK DOME MARKER POST
- BORE PIT – PROPOSED

- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP / NAME / SIZE / LOCATION — TERMINATION – EXISTING
- FDP / NAME / SIZE / LOCATION — TERMINATION – PROPOSED
- BUILDING / NAME / STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED

#F	
	IN: 0
	OUT: 0

SEQUENTIAL CALLOUT

#F	
	IN: 0
	TAIL: 0

SEQUENTIAL IN TAIL CALLOUT

#F	
	TAIL: 0
	OUT: 0

SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – EXISTING
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

POLE NO	N/A
UTILITY1	0'-0"

POLE ATTACHMENT CALLOUT – PROPOSED
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

PERMITTING AGENCY
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BLAIR CONSULTING SERVICES, Inc.
1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISION DATA

NO.	DESCRIPTION	BY	DATE
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SHEET TITLE: LEGEND

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_015
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_015 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	3 OF 12

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT A MINIMUM DEPTH OF 36" DEEP UNLESS OTHERWISE DIRECTED BY A REPRESENTATIVE OF THE UTILITY OWNER.

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, 72 HOURS AFTER COMPLETION OF WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT THE PROJECT MANAGER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT THE PROJECT MANAGER BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY A REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OWNER.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE REPRESENTATIVE OF THE UTILITY OWNER.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS OR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH THE APPROPRIATE STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED IN THE APPROPRIATE STATE.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

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SHEET TITLE: GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_015
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_015 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

A. WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.

B. WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 24" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 24" VERTICAL SEPARATION.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

E. CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

UTILITY NOTE:

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SOFT DIGS &/OR POTHOLING SHALL BE REQUIRED BY CONTRACTOR TO IDENTIFY EXISTING UTILITY DEPTHS.

MINIMUM 24" SEPARATION SHALL BE MAINTAINED FROM ALL EXISTING UTILITIES UNLESS SUPERVISED.

PERMITTING AGENCY

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SHEET TITLE:
GENERAL NOTES

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_015
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_015 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	5 OF 12

PROPOSED BORE
PIT 00+00

PROPOSED UTILITY
MARKER 00+95

DIRECTIONAL BORE:
- (2) 1.25" HDPE SDR 11 CONDUIT
- 290'
- MINIMUM DEPTH = 165.6" STA– 00+95 TO 01+95

PROPOSED UTILITY
MARKER 01+95

PROPOSED BORE
PIT 02+90

RODERICK LN

LONGWING CANAL
47-5-4

LONGWING CANAL
47-5-4

01+51

18'
19'
60'
2'
6'
100'

ESMT
R/W
EOP

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811 Know what's below. Call before you dig.

0 10' 20' 30' 40'
SCALE: 1"=40'

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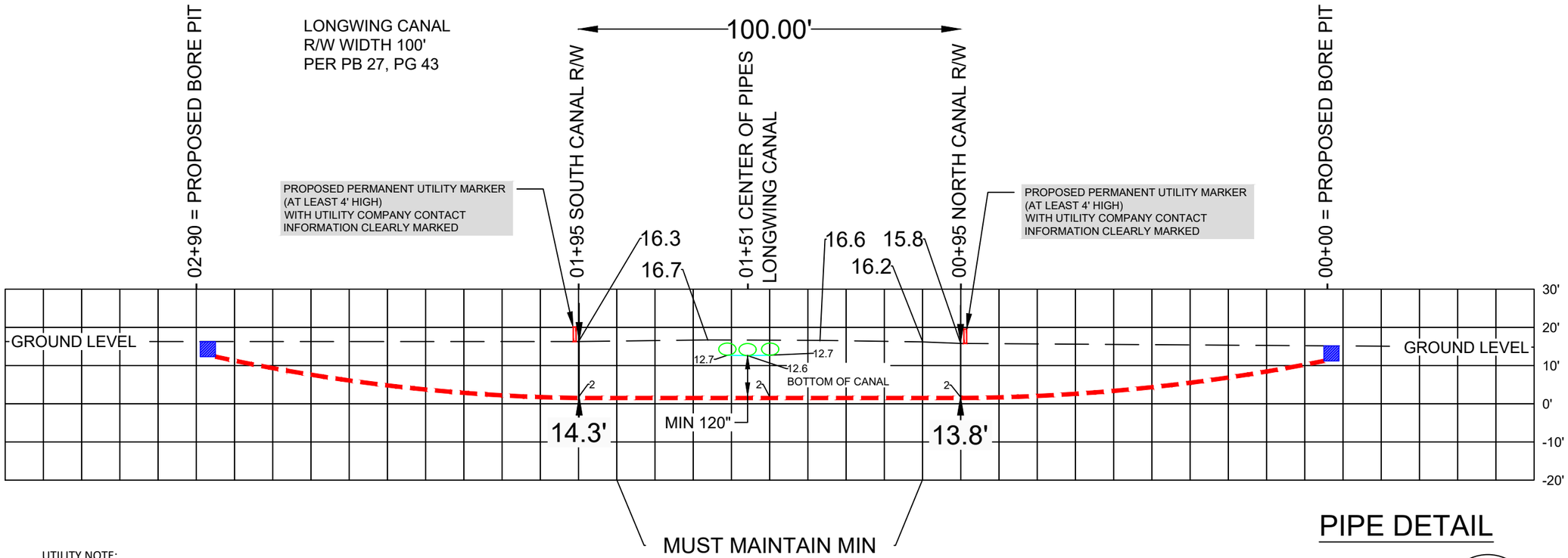
SHEET TITLE:
PROJECT SHEET

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_015
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_015 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	6 OF 12

SUB-GRADE VERTICAL PROFILE VIEW
RODERICK LN
LOOKING WEST



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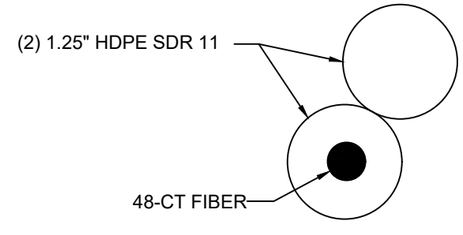
PIPE DETAIL



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0 10' 20' 30'
SCALE: 1"=30'

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SHEET TITLE:
PROFILE VIEW

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PROJECT ENGINEER:	BEN PHILLIPS
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DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_015 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	7 OF 12

STREET LEVEL VIEW
STA 00+95
FACING SOUTH

04/07/2026 10:54AM
26.680762, -81.638285
1969 RODERICK LN
LEHIGH ACRES, FL 33972

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SHEET TITLE: IMAGES

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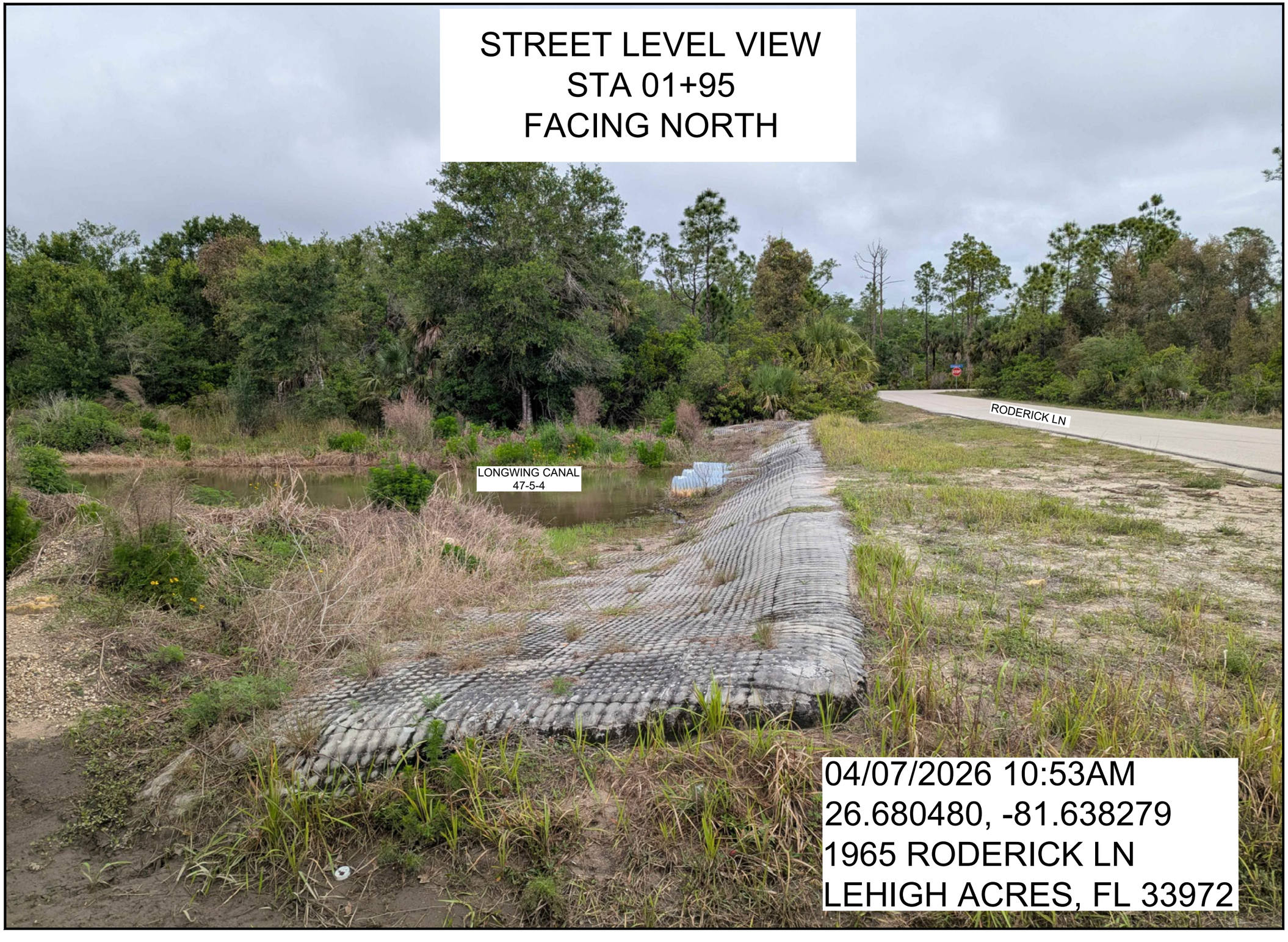
DRAWING NAME:	LE1_002_FDH_015 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	8 OF 12

STREET LEVEL VIEW
STA 01+95
FACING NORTH



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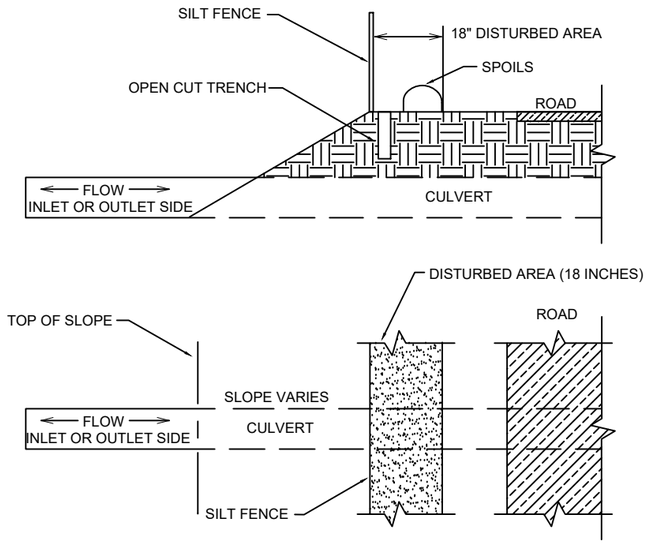
DRAWING NAME:	LE1_002_FDH_015 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	9 OF 12

TYPICALS

CULVERT CUT OVER ON ROADSIDE SHOULDER

NOT TO SCALE



GENERAL NOTES

1. INSTALL SILT FENCE TO PROTECT DOWNSTREAM AREAS FROM SEDIMENTATION PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE AS NEEDED TO PROTECT DRAINAGE FEATURES, BUT NO LESS THAN 10' ON EITHER SIDE OF CULVERT.

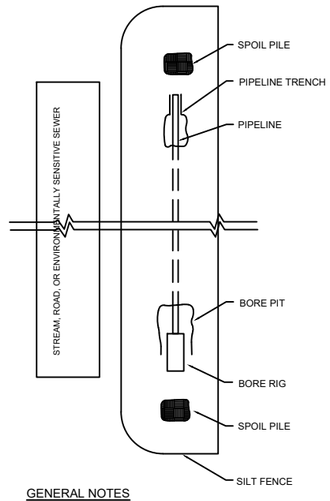
MAINTENANCE NOTES

INSPECT CULVERT CROSSING STRUCTURES WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER) TO SEE IF ANY EROSION AROUND OR BELOW THE SILT FENCE HAS OCCURRED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

*REF: 6.41.5 NC Erosion and Sediment Control Planning and Design Manual, 2006

DIRECTIONAL BORE DETAIL (PARALLEL)

NOT TO SCALE

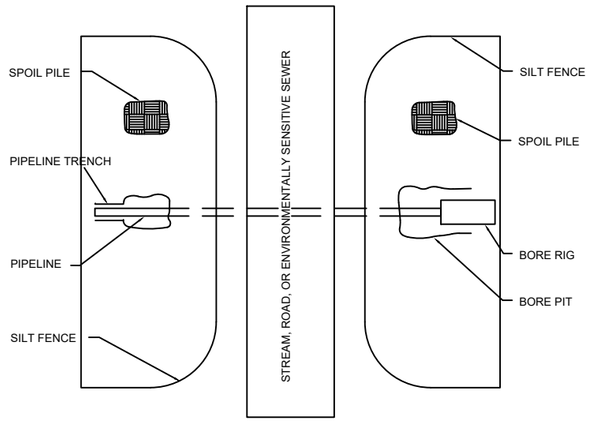


GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

DIRECTIONAL BORE DETAIL (TRAVERSE)

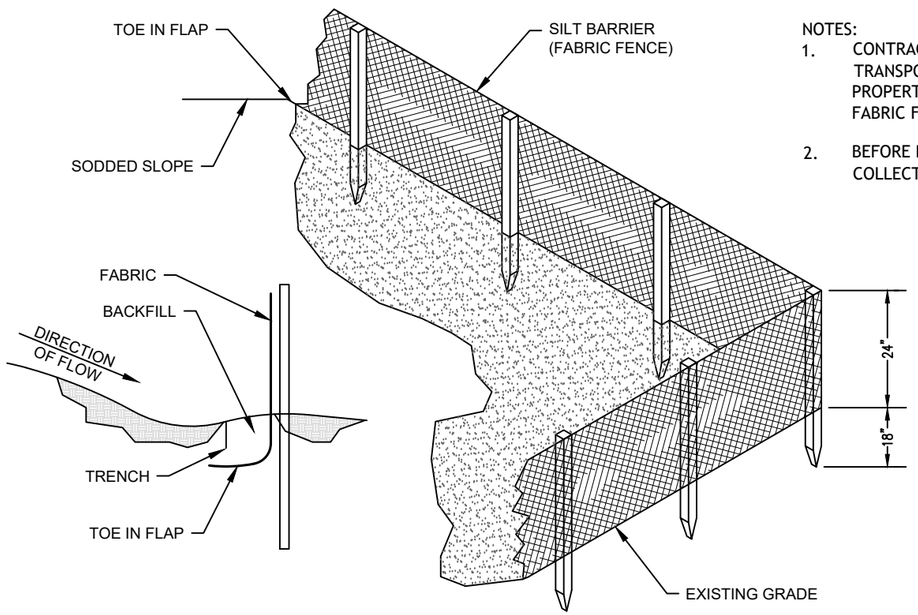
NOT TO SCALE



GENERAL NOTES

1. BORE PITS AND SPOILS PILES SHALL BE ENCLOSED ON THREE SIDES AS SHOWN WITH SILT FENCE

FABRIC FENCE SILT - BARRIER



NOTES:

1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

PERMITTING AGENCY

LA - MSID

lumos

BLAIR CONSULTING SERVICES, Inc.

1428 SUNBLUSH LN
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

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REVISION DATA

NO.	DESCRIPTION	BY	DATE
----	----	----	----
----	----	----	----

SHEET TITLE: TYPICALS

PROJECT MANAGER:	FABIO PERASSI
PROJECT ENGINEER:	BEN PHILLIPS
PROJECT NUMBER:	LE1_002_FDH_015
DESCRIPTION:	LONGWING CANAL
DRAWING NAME:	LE1_002_FDH_015 - LEHIGH ACRES_LEE COUNTY_FLORIDA - LONGWING CANAL
SHEET:	10 OF 12

TYPICALS

PERMITTING AGENCY

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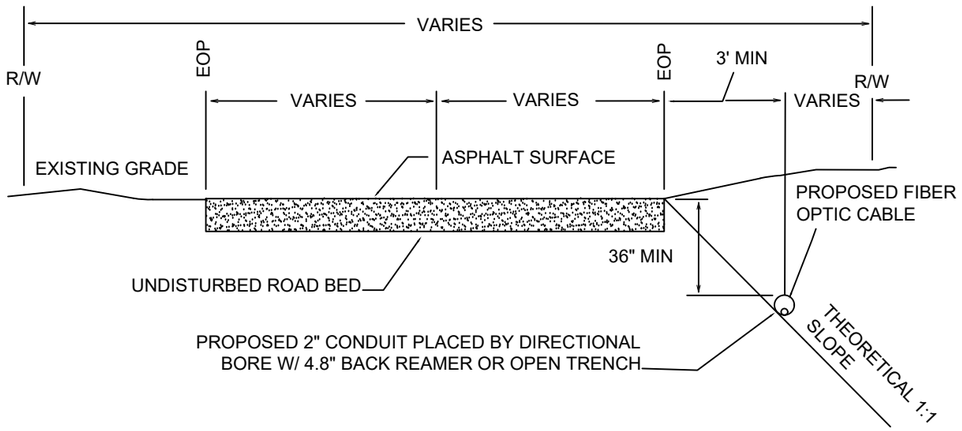
LAS VEGAS, NV 89117

811 Know what's below. Call before you dig.

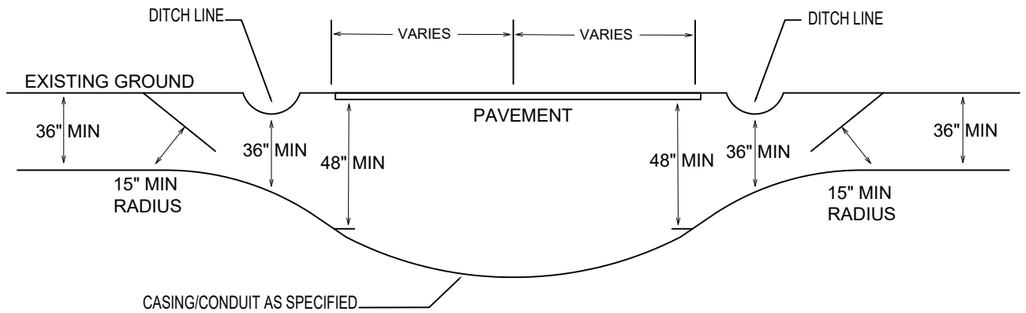
PARALLEL CONDUIT DETAIL FOR FDOT RIGHT-OF-WAY

NOT TO SCALE



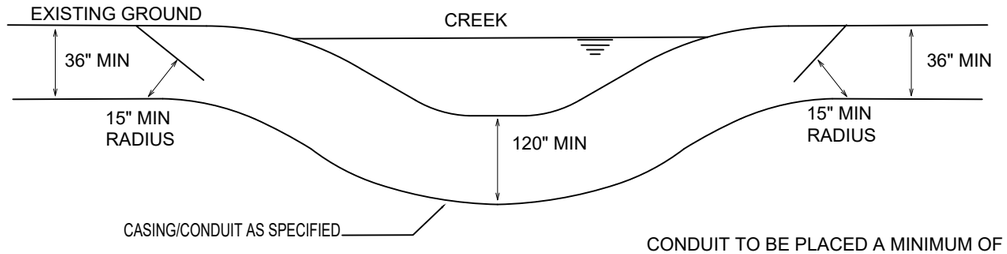
DIRECTIONAL BORE UNDER SECONDARY ROADWAY

NOT TO SCALE



DIRECTIONAL BORE UNDER CREEK BED

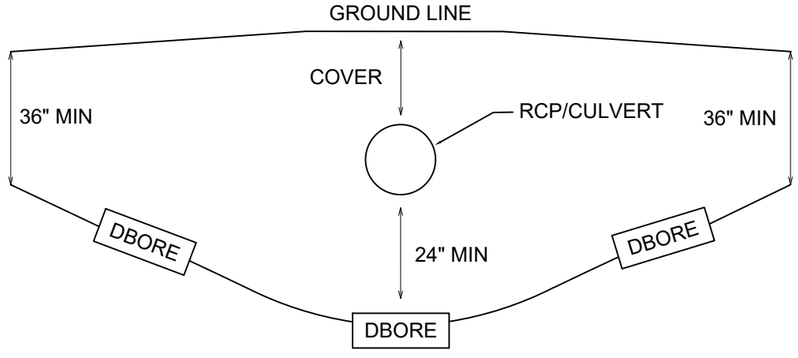
NOT TO SCALE



CONDUIT TO BE PLACED A MINIMUM OF 10 FEET BELOW CREEK BED

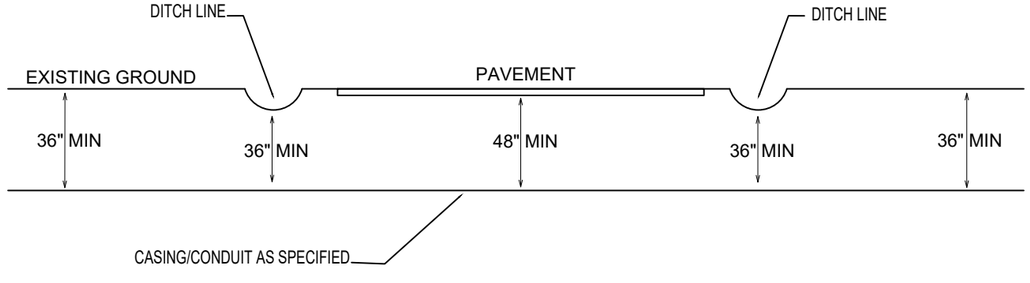
CULVERT CROSSING DETAIL

NOT TO SCALE



DRY BORE UNDER ROADWAY

NOT TO SCALE



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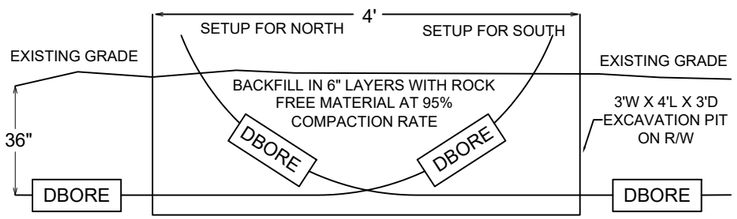
SHEET:	11 OF 12

TYPICALS

DIRECTIONAL BORE TIE-IN DETAIL

NOT TO SCALE

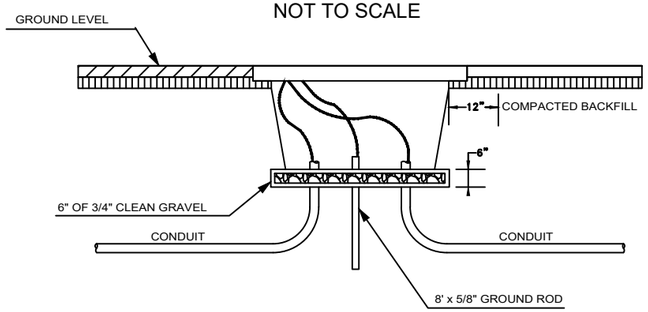


TIE-IN STATION

- BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO 2 FEET PAST THE INTENDED TIE-IN. THEN TURNED UP TO DAYLIGHT.
- THE TIE-IN POINT IS EXCAVATED. THE CONDUITS CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO CONDUITS AT THE DESIGN DEPTH.
- ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, AND .652

PULL BOX HANDHOLE

NOT TO SCALE



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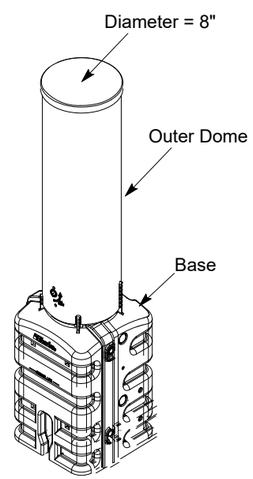
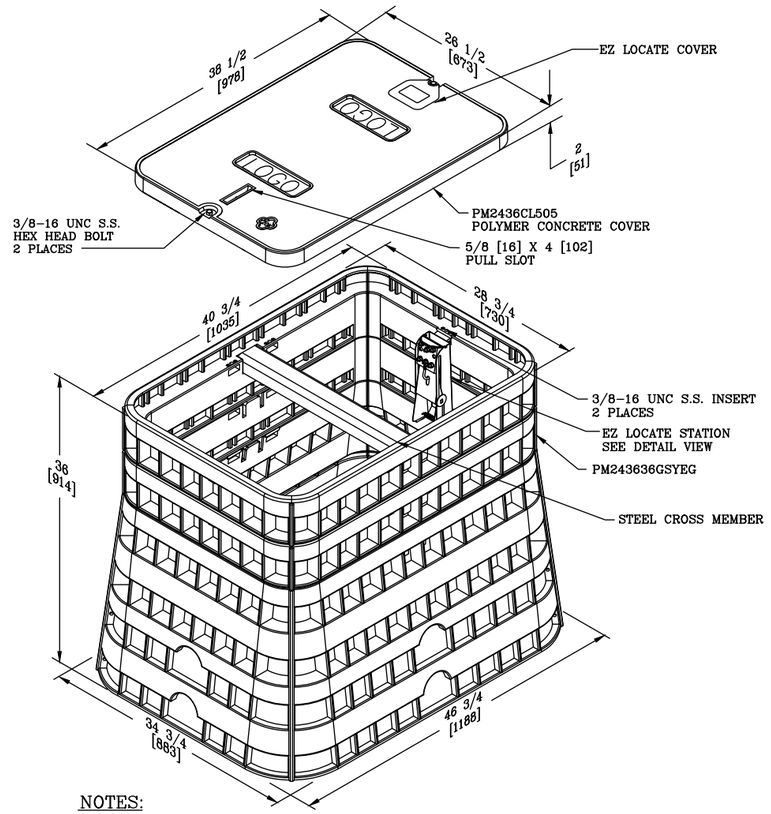
BDO204-EG

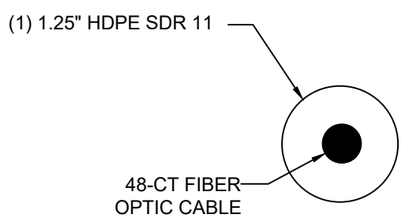




NOTES:

1. BOX MATERIAL TO BE HDPE PLASTIC, COVER MATERIAL TO BE POLYMER CONCRETE.
2. COLOR TO BE GREY.
3. THIS ASSEMBLY HAS A LOAD RATING OF 20,000 LBS. [88,960 N].

PIPE DETAIL



PERMITTING AGENCY

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lumos

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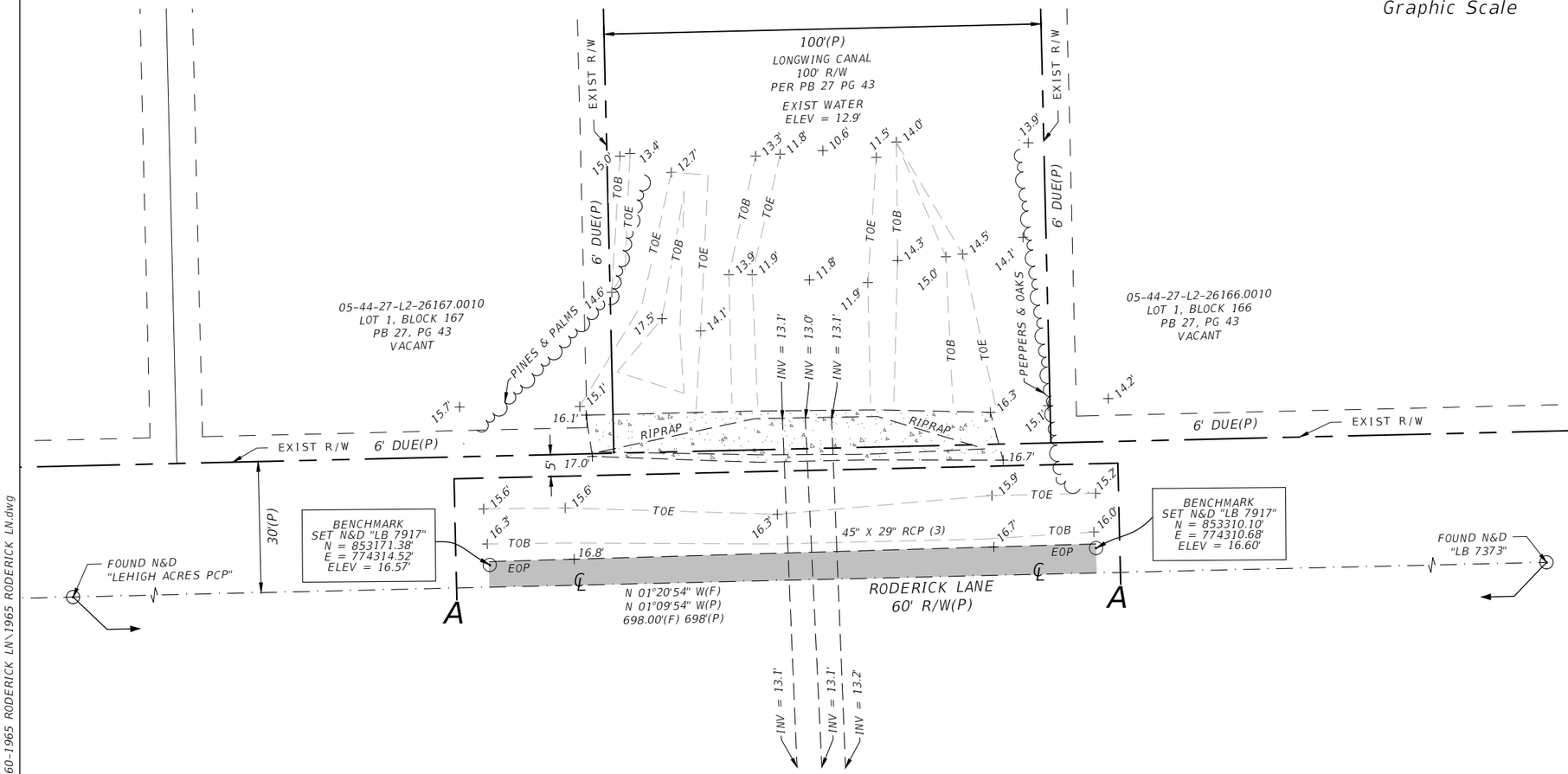
SHEET:	12 OF 12

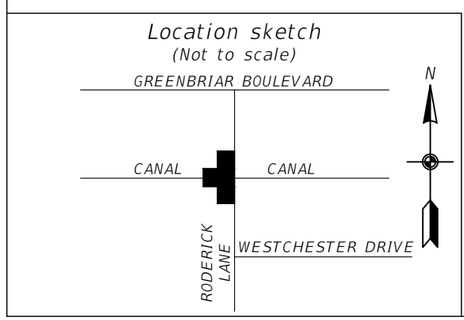
Topographic Survey of a Subject Project Site

lying within

Section 05, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida





LEGEND:

(P)	= PER PLAT	N&D	= NAIL AND DISK
(F)	= FIELD MEASURED	NAVD 88	= NORTH AMERICAN VERTICAL DATUM 1988
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+20.0' = SPOT ELEVATION

N

0 15' 30'

(1" = 30')

Graphic Scale

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Subject to easements, restrictions, reservations, and rights-of-way (recorded and unrecorded, written and unwritten).

Last day of field work: 01/05/2026

TAYLOR J. HENNINGE
License Number
7279
STATE OF FLORIDA
Professional Surveyor and Mapper

Taylor Henninge 2026.02.26 16:35:38-05'00'

TAYLOR J. HENNINGE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 7279

Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Roderick Lane, Lehigh Acres

TOPOGRAPHIC SURVEY-PLAN VIEW

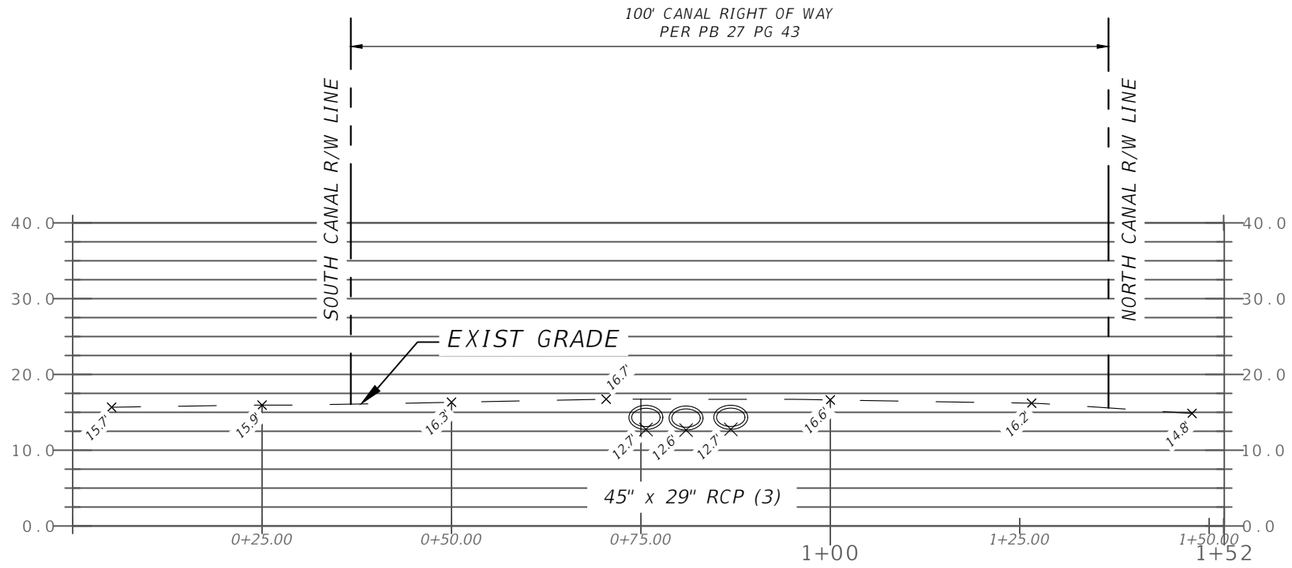
McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
1965 RODERICK LN.dwg	106981-3/33	106980001-L060

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/05/2026	JRB	TJH	01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L060-1965 RODERICK LN\1965 RODERICK LN.dwg

Topographic Survey of a
Subject Project Site
Section 05, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Roderick Lane, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

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I:\10698\0001\Geomatics\90-WORK ORDERS\L060-1965 RODERICK LN\1965 RODERICK LN.dwg

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

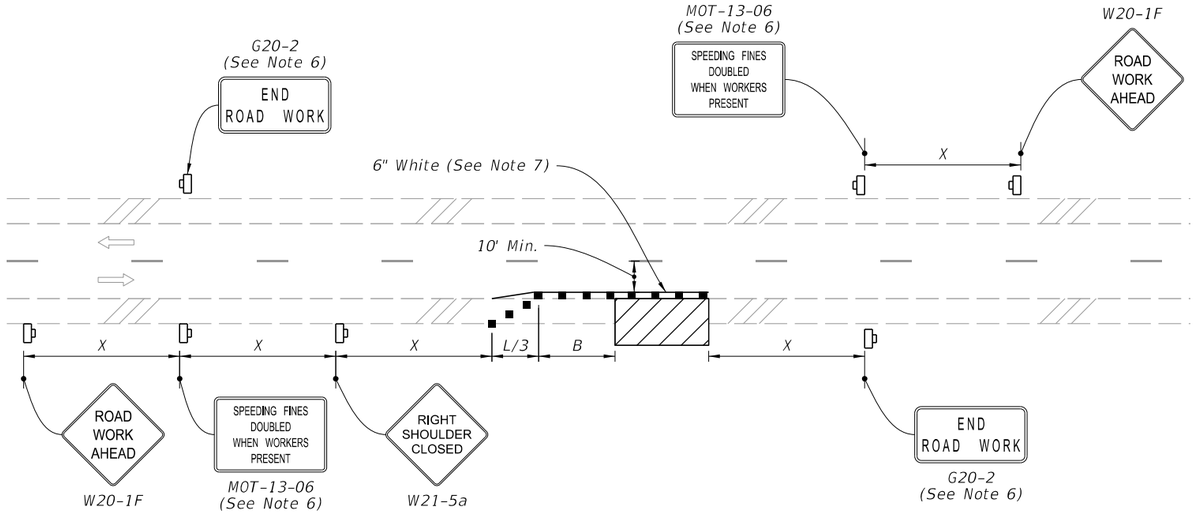
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

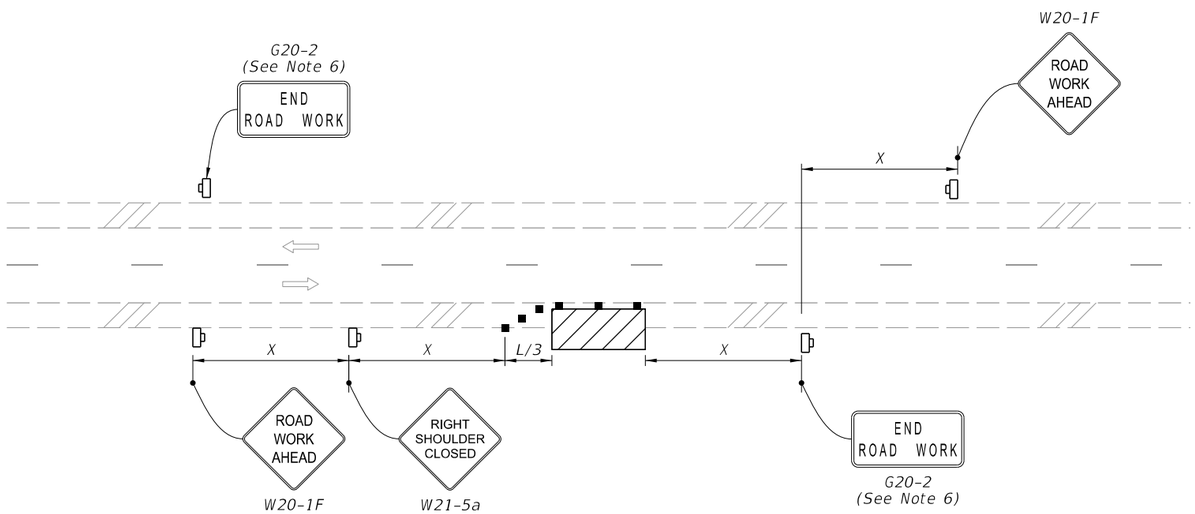
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



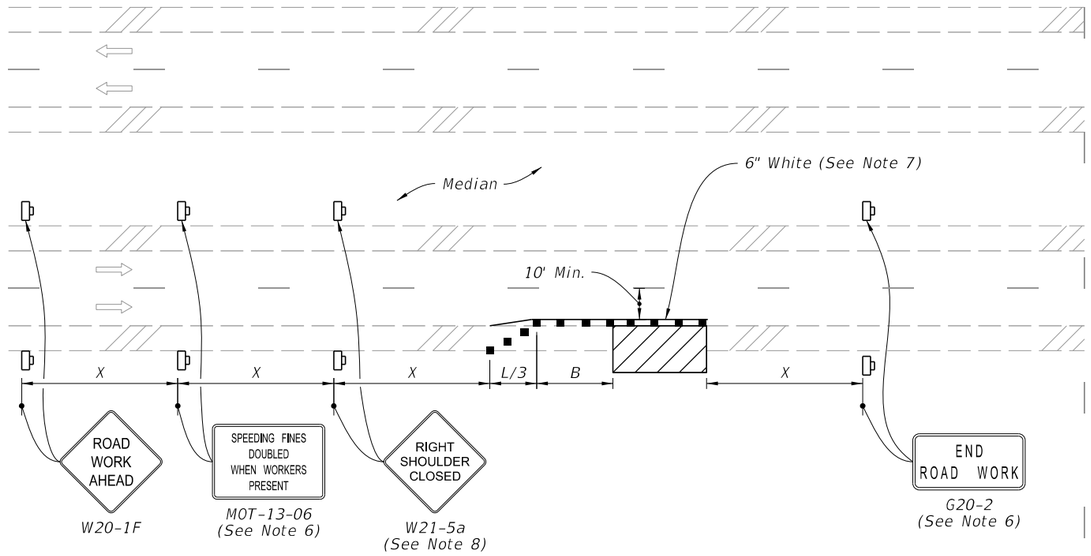
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



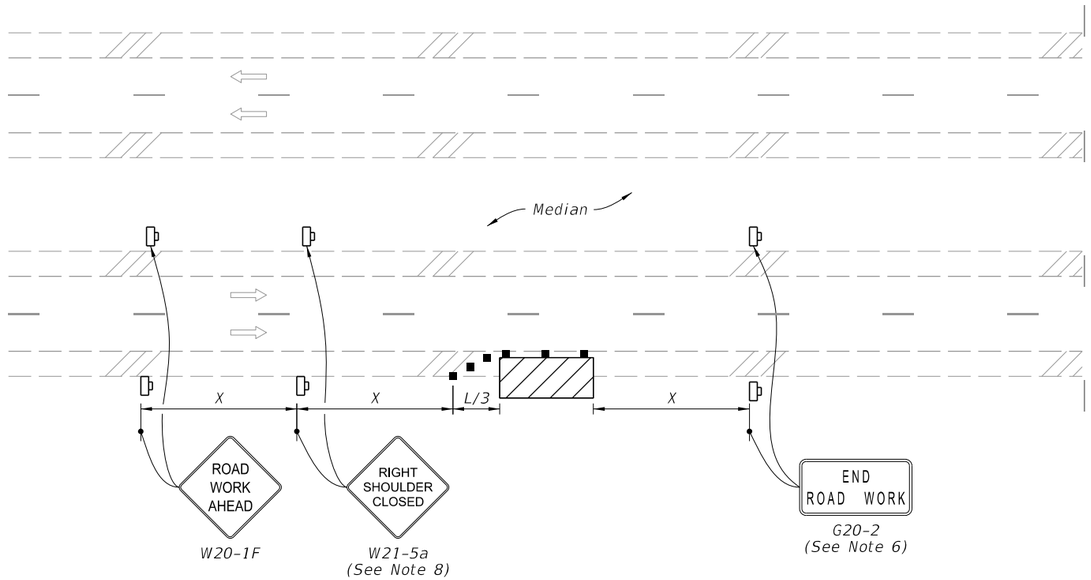
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:37 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



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- Lane Identification and Direction of Traffic

MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

9/10/2024 10:45:44 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FDOT FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2

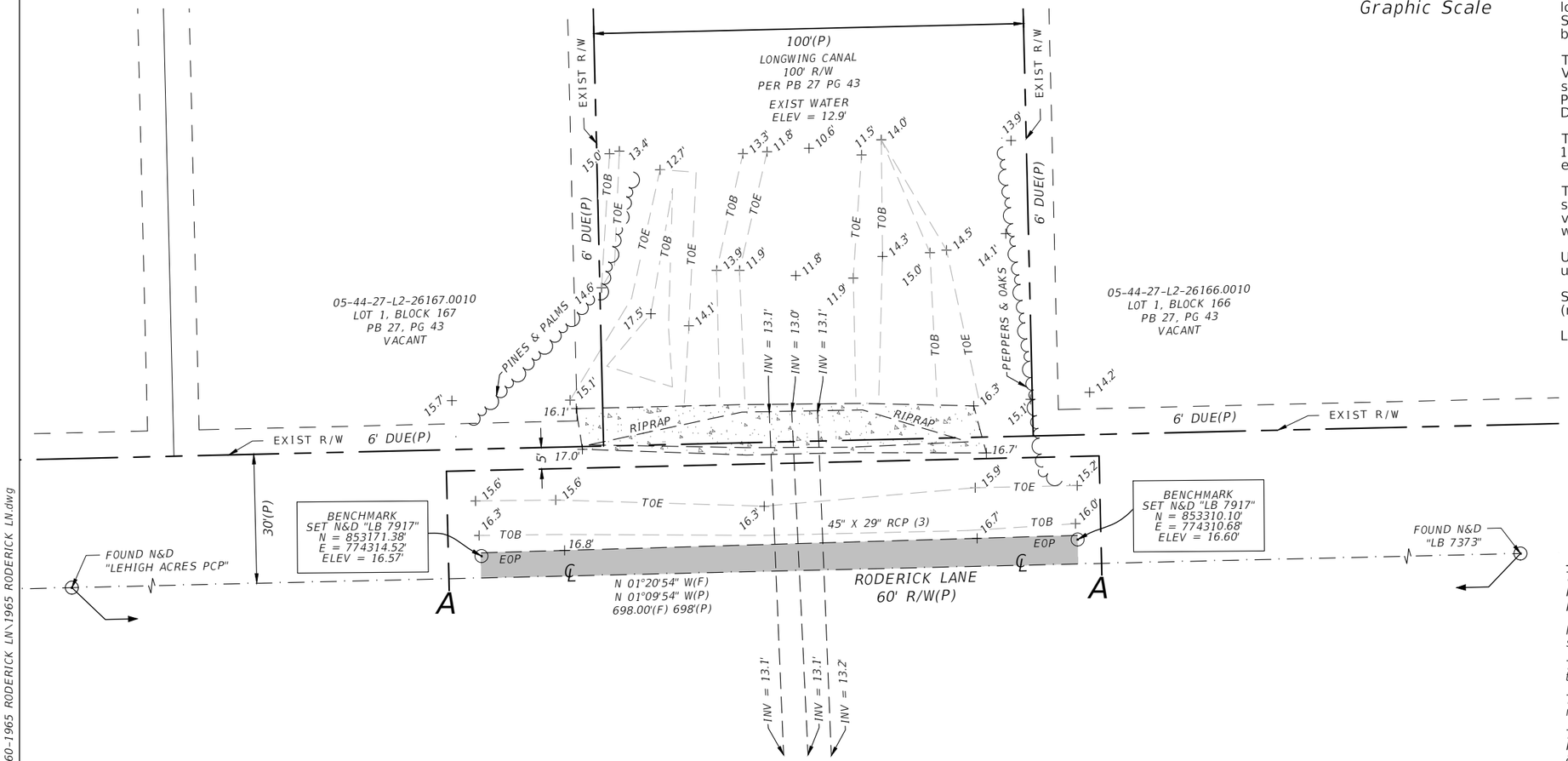
Topographic Survey of a Subject Project Site

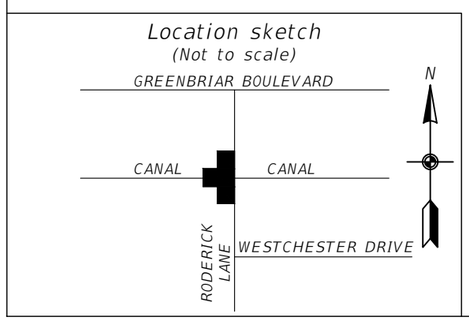
lying within

Section 05, Township 44 South, Range 27 East

Lehigh Acres, Lee County, Florida

SEE SHEET 02 FOR 1" = 20'
SECTION A-A PROFILE VIEW





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Not valid without the signature and the original seal of a Florida licensed surveyor and mapper.

This survey is only for the lands as described. It is not a certificate of title, zoning, easements or freedom of encumbrances.

This survey was prepared without benefit of an abstract of title and all matters of title should be referred to an attorney at law.

This survey has been electronically signed and sealed by Taylor J. Henninge using a digital signature and date. Print copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Roderick Lane, Lehigh Acres

TOPOGRAPHIC SURVEY-PLAN VIEW

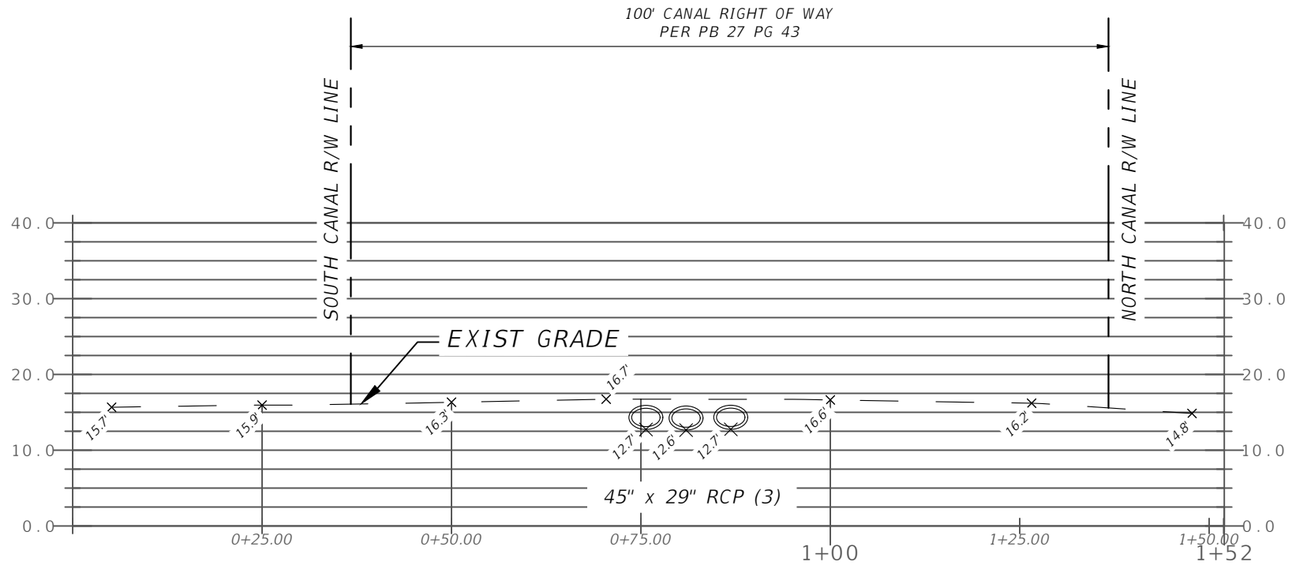
McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
1965 RODERICK LN.dwg	106981-3/33	106980001-L060

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/05/2026	JRB	TJH	01 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L060-1965 RODERICK LN\1965 RODERICK LN.dwg

Topographic Survey of a
Subject Project Site
Section 05, Township 44 South, Range 27 East
Lehigh Acres, Lee County, Florida



A-A Profile View
1" = 20' HORIZONTAL
1" = 20' VERTICAL

SEE SHEET 01 FOR LEGEND

Roderick Lane, Lehigh Acres

TOPOGRAPHIC SURVEY-PROFILE VIEW

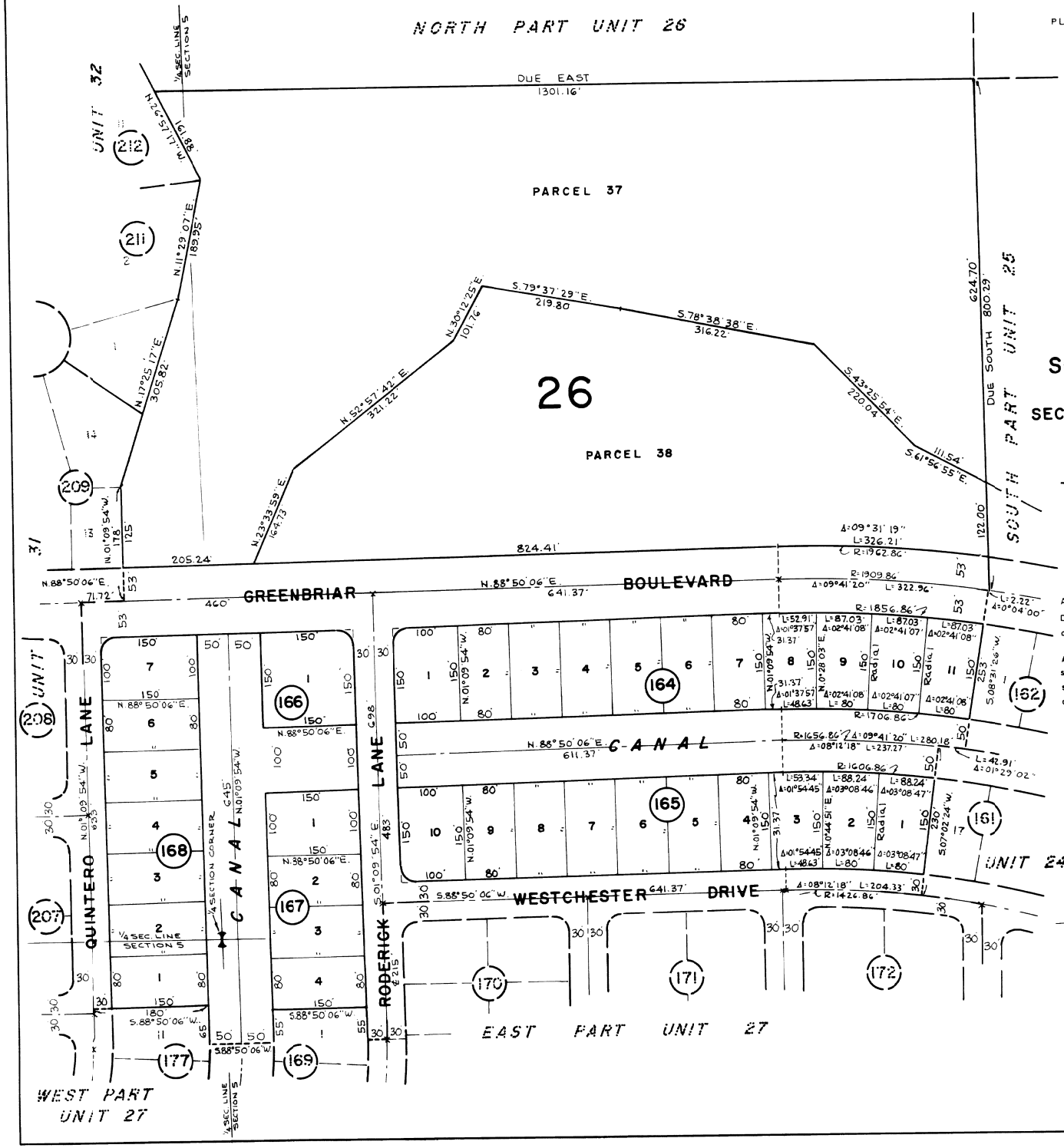
McKIM&CREED
5701 Division Drive, Suite A
Fort Myers, Florida 33905
Phone: (239) 275-8875
LB 7917
www.mckimcreed.com

File name:	Field book/page:	Project No.:
1965 RODERICK LN.dwg	106981-3/33	106980001-L060

Survey date:	Drawn by:	Checked by:	Sheet No.:
01/05/2026	JRB	TJH	02 OF 02

I:\10698\0001\Geomatics\90-WORK ORDERS\L060-1965 RODERICK LN\1965 RODERICK LN.dwg

PLAT BOOK 27 PAGE 43



PART IV #26-82

Recommended Action

Engineering Review:

By: _____6/2/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ Approved ___ Denied ___

District Manager: _____ Date: _____

Comments:

The referenced permit application submitted by Lumos Fiber of Florida, LLC for a subaqueous crossing under Longwing Canal (47-5-4) at 1965 Roderick Ln., in Lehigh Acres, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: PER #26-83, Comcast Bore under Towhee Canal (57-12-2) at Croquet St. E.

Meeting Date: June 15, 2026

Agenda Item # 2H

[x] **CONSENT** [ ] **ACTION** [ ] **OLD BUSINESS** [ ] **NEW BUSINESS**

Request Initiated By: [ ] **COMMISSIONER** _____ [ ] **ATTORNEY**

[ ] **BOARD** [x] **MANAGER** [ ] **ENGINEER** [ ] **AUDITOR**

Recommended motion: Move to approve PER #26-83, Comcast Bore under Towhee Canal (57-12-2) at Croquet St. E., with any listed stipulations.

What the action accomplishes: Allows Comcast to install fiber cables under District canals while ensuring they stay 10-feet below the bottom elevation of each canal.

Fiscal Impact: Permit Fees: $1,950.00

Staff comments: Approved according to the plans submitted on May 11, 2026.

Staff review and recommended approval:

[x] **MANAGER** [ ] **ASSISTANT DISTRICT MGR**

[ ] **ATTORNEY** [ ] **FIELD SUPERINTENDENT**

[x] **ENGINEER** [x] **CONTROLLER**

Board Action:

[ ] **APPROVED** [ ] **DENIED** [ ] **DEFERRED**

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Comcast Cable Communications, 12600 Westlinks Drive, Suite #4, Fort Myers, FL 33913, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Towhee Canal (57-12-2), along the north side of Croquet St. E., between Lambda Ave. S. & Lampion Ave. S., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-83

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-83 is approved according to the plans submitted May 11th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 80' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Croquet St. E.

PART I

DATE SUBMITTED: 03 - 11 - 26

PERMIT #: 26 - 83

APPLICATION FOR A PERMIT

*Note: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: JOANIE GEORGE **PHONE #:** (757)650-4070

PROJECT NAME: JB0002378786-LEE1-FLLAT00200-PH1-P10

TOTAL ACREAGE: 0.05

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 445 LAMBDA AVE S					
Mailing Address:	**NA**				
City:	**LEHIGH ACRES**	**State:**	**FL**	**Zip:**	**33974**

STRAP NUMBERS (*attach additional sheet if necessary):*

26		44		26		L2		08050		0070									

Brief description of proposed project:

Application for: Comcast proposes to bore 200' across Towhee Canal
Starting west on Croquet St E going east crossing Towhee Canal to east on Croquet St E

Is the project proposed to be developed in phases? ☐ Yes X No

Estimated # of Phases:	1	
***Permit Fee:**	$ $1,950.00	**(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

RECEIVED
MAY 11 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	Comcast Cable Communications - Marc Louis						
Mailing Address:	Street:	12600 Westlinks Dr #4					
City:	Ft Myers	State:	FL			Zip:	33913
Phone No.	Area Code:	239	Number:	986-7043		Ext.	
Fax No.	Area Code:		Number:	-			
E-mail Address:	Marc_louis@cable.comcast.com						

B. Relationship of applicant to property*:

☐ Owner* ☐ Trustee* ☐ Option holder* ☐ Lessee*

☐ Contract Purchaser* X Other (indicate)* UTILITY

C.

Name of Developer:						
Mailing Address:	Street:					
City:		State:			Zip:	
Phone No.	Area Code:	( )	Number:	-	Ext.	
Fax No.	Area Code:	( )	Number:	-		
E-mail Address:						

D.

Name of Authorized Agent(s):	Joanie George					
Mailing Address:	Street:	13277 NE 235th Ct				
City:	Raiford	State:	FL		Zip:	32083
Phone No.	Area Code:	(757)	Number:	650-4070	Ext.	
Fax No.	Area Code:	( )	Number:	-		
E-mail Address:						

E.

Name of Property Owner:						
Mailing Address:	Street:					
City:		State:			Zip:	
Phone No.	Area Code:	( )	Number:	-	Ext.	
Fax No.	Area Code:	( )	Number:	-		
E-mail Address:						

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

PRIMARY STRAP NUMBER: | | | - | | | - | | | - | | | - | | | | | - | | | |

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

Joann George
SIGNATURE OF APPLICANT

Joann George
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 6 day of May (m), 2022 (y), by J. George who is personally know to me or has produced _____ as identification.

Notary Public State of Florida
Ashley Woods
My Commission HH 337625
Expires 12/1/2026

Ashley Woods
SIGNATURE OF NOTARY PUBLIC

Ashley Woods
PRINTED NAME OF NOTARY PUBLIC

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**			**Zip:**		
Business No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Other Contact:							

ENGINEER

Name:							
Mailing Address:							
City:		**State:**			**Zip:**		
Business No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:							
Mailing Address:							
City:		**State:**			**Zip:**		
Business No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES SUB'D	NO. OF COPIES REQ'D	SUBMITTAL DOCUMENT
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
N/A	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
N/A	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
N/A	2	**Copy of approved SWFMD permit**, for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

RECEIVED

MAY 1 1 2026

LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

TrueNet Communications Corp

061053

LEHIGH ACRES MUNICIPAL SERVICE - IMPROVEMENT DISTRICT

DATE	INVOICE NO.	DESCRIPTION	INVOICE AMOUNT	DEDUCTION	BALANCE
5/5/2026	05042026	JB0002378786 - FLLAT00200 - PH1 PERMIT 10	1,950.00		1,950.00

CHECK DATE		CHECK NUMBER		TOTALS			

PLEASE DETACH THIS PORTION AND RETAIN FOR YOUR RECORDS 9321

DOCUMENT IS PRINTED ON CHEMICALLY REACTIVE PAPER - THE BACK OF THIS DOCUMENT INCLUDES A TAMPER EVIDENT CHEMICAL WASH WARNING BOX

THE BACK OF THIS DOCUMENT INCLUDES MICROPRINTED ENDORSEMENT LINES

ORIGINAL DOCUMENT HAS RED PATCH HOLE ICON IN MASTHEAD WITH WHITE BACKGROUND

061053

TrueNet Communications Corp.
90 FORT WADE RD.
SUITE 230
PONTE VEDRA, FL 32081
(904) 777-9052
APINV@TrueNetCommunications.com

Bank of America
11-35/1210 GL

Pay: **********one thousand nine hundred fifty and 00/100

DATE	CHECK NO.	AMOUNT
May 4, 2026	61053	$*****1,950.00

PAY TO THE ORDER OF

LEHIGH ACRES MUNICIPAL SERVICE - IMPROVEMENT DISTRICT
601 EAST COUNTY LANE
LEHIGH ACRES FL 33936

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

HEAT SENSITIVE COLOR FADES WITH HEAT

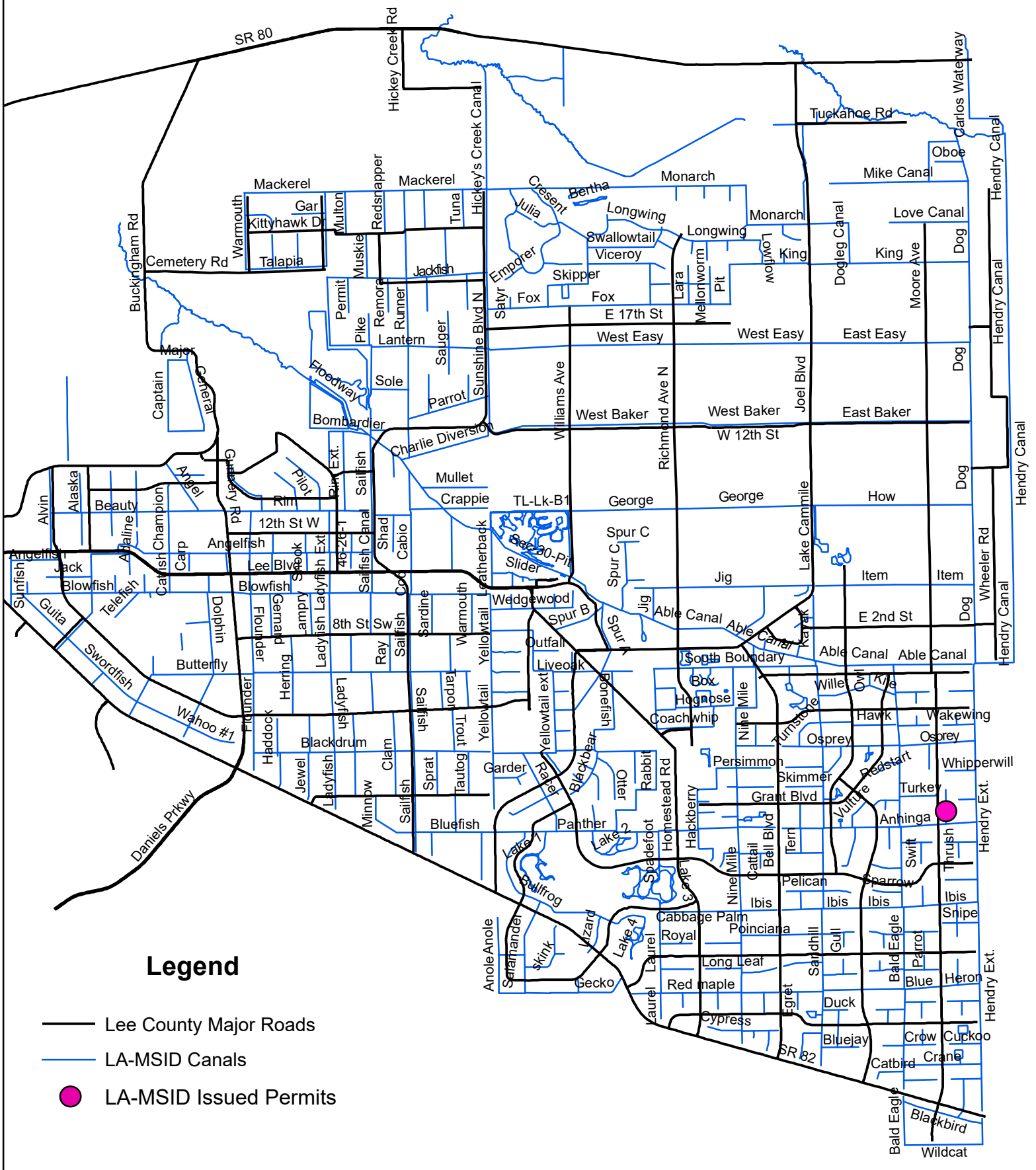
⑈061053⑈ ⑆121000358⑆ 00123359 2930⑈

COPY

COPY

Permit #26-83

Permit # 2026-83


SR 80
Hickey Creek Rd
Hickey's Creek Canal
Carlos Waterway
Tuckahoe Rd
Oboe
Mike Canal
Hendry Canal
Love Canal
Dog
Buckingham Rd
Cemetery Rd
Mackerel
Gar
Kittyhawk Dr
Talapia
Warmouth
Multon
Redsnapper
Tuna
Muskie
Jackfish
Permit
Pike
Remora
Runner
Lantern
Sauger
Sunshine Blvd N
Satyr
Emperor
Julia
Cresent
Bertha
Longwing
Swallowtail
Viceroy
Skipper
Fox
Monarch
Lara
Mellonworm
Pit
Lowflow
King
Dogleg Canal
Moore Ave
E 17th St
West Easy
East Easy
Major
General
Captain
Floodway
Sole
Parrot
Bombardier
Charlie Diversion
Williams Ave
Richmond Ave N
Joel Blvd
West Baker
East Baker
W 12th St
Wheeler Rd
Mullet
Crappie
TL-Lk-B1
George
How
Spur C
Lake Cammile
Item
Jig
Able Canal
E 2nd St
Kayak
Outfall
Liveoak
South Boundary
Box
Hognose
Coachwhip
Nine Mile
Turnstone
Willet
Owl
Kite
Hawk
Osprey
Wakewing
Whipperwill
Redstart
Vulture
Turkey
Anhinga
Persimmon
Skimmer
Grant Blvd
Hackberry
Homestead Rd
Spadefoot
Cattail
Bell Blvd
Tern
Swift
Thrush
Pelican
Sparrow
Ibis
Snipe
Cabbage Palm
Royal
Poinciana
Gull
Sandhill
Eagle
Parrot
Blue
Heron
Long Leaf
Red maple
Laurel
Egret
Duck
Cypress
Bluejay
Crow
Cuckoo
Crane
Catbird
Bald Eagle
Blackbird
Wildcat
SR 82
Hendry Ext.
Daniels Prkwy
Swordfish
Wahoo #1
Butterfly
Dolphin
Flounder
Herring
Haddock
Blackdrum
Jewel
Ladyfish
Clam
Minnow
Sailfish
Sprat
Tautog
Trout
Yellowtail
Yellowtail ext
Bonefish
Blackbear
Otter
Rabbit
Garder
Panther
Bluefish
Lake 1
Lake 2
Lake 3
Lake 4
Bullfrog
Lizard
Skink
Gecko
Anole
Alvin
Alaska
Beauty
Angel
Angelfish
Jack
Blowfish
Sunfish
Guita
Telefish
Albaline
Catfish
Champion
Carp
Pilot
Rim
Rim Ext.
Sailfish
Shad
Cabio
Cobia
Sardine
Ray
Lee Blvd
12th St W
8th St Sw
Ladyfish Ext
Lampry
Snook
Gennard
Ladyfish
46-26-1
Leatherback
Slider
Wedgewood
Spur B
Spur A
Jig
Able Canal
Able Canal
Able Canal

BINDING SPACE

445 LAMBDA AVE S
LA-MSID PERMIT
NOTES & TYPICALS

SITE MAP
SCALE: NONE

LEE CO. AERIAL & U/G NOTES

ALL PROPOSED CONSTRUCTION WILL BE PER DOT SPECIFICATIONS AS WELL AS ALL NESC SAFETY CODES.

ALL PROPOSED CATV WILL BE WITHIN THE DOT RIGHT-OF-WAY.

ALL AERIAL CANAL RIGHT-OF-WAY CROSSINGS MUST BE A MINIUM HEIGHT OF 40' ABOVE THE TOP OF THE CANAL BANK

ALL PROPOSED CANAL RIGHT-OF-WAY BORES MUST BE A MINIMUM HEIGHT OF 10' (120") BELOW THE BOTTOM OF THE CANAL OR PIPE INVERT

ALL PROPOSED UNDERGROUND CATV WILL BE BURIES A MINIMUM OF 66" DEEP, EXCEPT BORES 48" DEEP

ALL PROPOSED UNDERGROUND CATV ROAD BORES WILL USE FDOT APPROVED DIRECTIONAL BORE MACHINE, AS WELL AS FDOT APPROVED CONDUIT

ALL PROPOSED CATV ROAD BORES WILL EXTEND A MINIMUM OF 8' BEYOND THE EDGE OF PAVEMENT

ALL PROPOSED CATV DRIVEWAY BORES WILL EXTEND A MINIMUM OF 4' BEYOND THE EDGE OF PAVEMENT

ALL PROPOSED CATV WILL BE .625" OR .875" DIAMETER, INSULATED COAXIAL CABLE OR 1.0" DIAMETER, INSULATED FIBER OPTIC CABLE, AND WILL BE LASHED TO .250" STEEL STRAND CABLE USING .125" STD. GALV. LASHING WIRE

ALL PROPOSED AERIAL CATV CROSSINGS (BOTH ROADWAYS AND DRIVEWAYS) WILL HAVE MINIMUM MID-SPAN HEIGHT OF 18'-0".

ALL PAEALLEL PROPOSED AERIAL CATV WILL HAVE MINIMUM MID-SPAN HEIGHT OF 16'-6" AS PER NESC SPECIFICATIONS.

LOCATES WILL BE REQUIRED IN ALL PROPOSED UNDERGROUND AREAS AT LEAST 48 HRS. PRIOR TO CONSTRUCTION.

NOTIFICATIONS TO ALL UTILITIES INVOLVED WILL BE MADE PRIOR TO CONSTRUCTION.

GENERAL NOTES

MAINTENANCE OF TRAFFIC TO BE SUPERVISED BY A CERTIFIED PERSON.

TEST RESULTS ARE REQUIRED UPON REQUEST.

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY LANE CLOSURES OR BEGINNING ANY CONSTRUCTION WITHIN THE DOT RIGHT-OF-WAY.

ALL WORK PERFORMED WITHIN THE DOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH DOT DESIGN STANDARDS, SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE UTILITY ACCOMODATION MANUAL, LATEST EDITIONS.

ENGINEER'S CERTIFICATION TOGETHER WITH AS-BUILTS, IF REQUIRED TO BE SUBMITTED WITHIN 30 DAYS OF COMPLETION.

ALL CONCRETE TO BE REMOVED SHALL BE SAW CUT AT THE NEAREST GOOD JOINT. GUTTER SHALL BE SAW CUT BETWEEN ASPHALT AND GUTTER BEFORE REMOVAL.

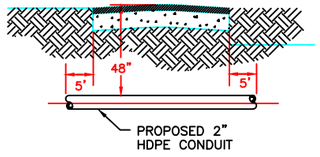
IT WILL BE THE RESPONSIBILITY OF THE PERMITTEE TO REPAIR ANY DAMAGE TO DOT FACILITIES CAUSED BY THE CONSTRUCTION OF THE PROJECT.

ALL CONCRETE SHALL BE 3,000 PSI. APPROVED DOT MIX DESIGN.

LEGEND

	BORE
	SWALE/DITCH
	GUARD RAIL
GAS	GAS
PWR	POWER
	U/G CATV
STLT	STREET LIGHT
SD	STORM DRAIN
SWR	SEWER
TELE	TELEPHONE
	TRAFFIC SIGNAL
W	WATER
	MISC U/G UTILITY
	PROPOSED U/G CATV
	PROPOSED AERIAL FIBER
	PROPOSED AERIAL CATV
℄	CENTERLINE
E/P	EDGE OF PAVEMENT
B/C	BACK OF CURB
R/W	RIGHT OF WAY

	POWER POLE
	POWER TRANSFORMER POLE
	JOINT USE TRANSFORMER POLE
	PHONE POLE
	CATV POLE
S	STEEL POLE
C	CONCRETE POLE
	JOINT USE POLE
R	RISER
	ANCHOR
	OVERHEAD GUY
V	CATV FIBER VAULT
V	TRAFFIC SIGNAL VAULT
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL BOX
A	CROSS SECTION REFERENCE
XX	FTG BTWN REFERENCE POINTS
	REFERNCE POINT
	STORM DRAIN



TYPICAL DRIVEWAY DIRECTIONAL BORE
N.T.S.

PROJECT TOTALS

PROP. BURIED CATV:	200'
PROP. OH CATV:	0'
TOTAL PROP. CATV:	200' (0.04MI.)

MOT NOTES

TRAFFIC CONTROL SHALL COMPLY WITH FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND F.D.O.T. DESIGN STANDARD #NO. 600.

JB0002378786_445 LAMBDA AVE S_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

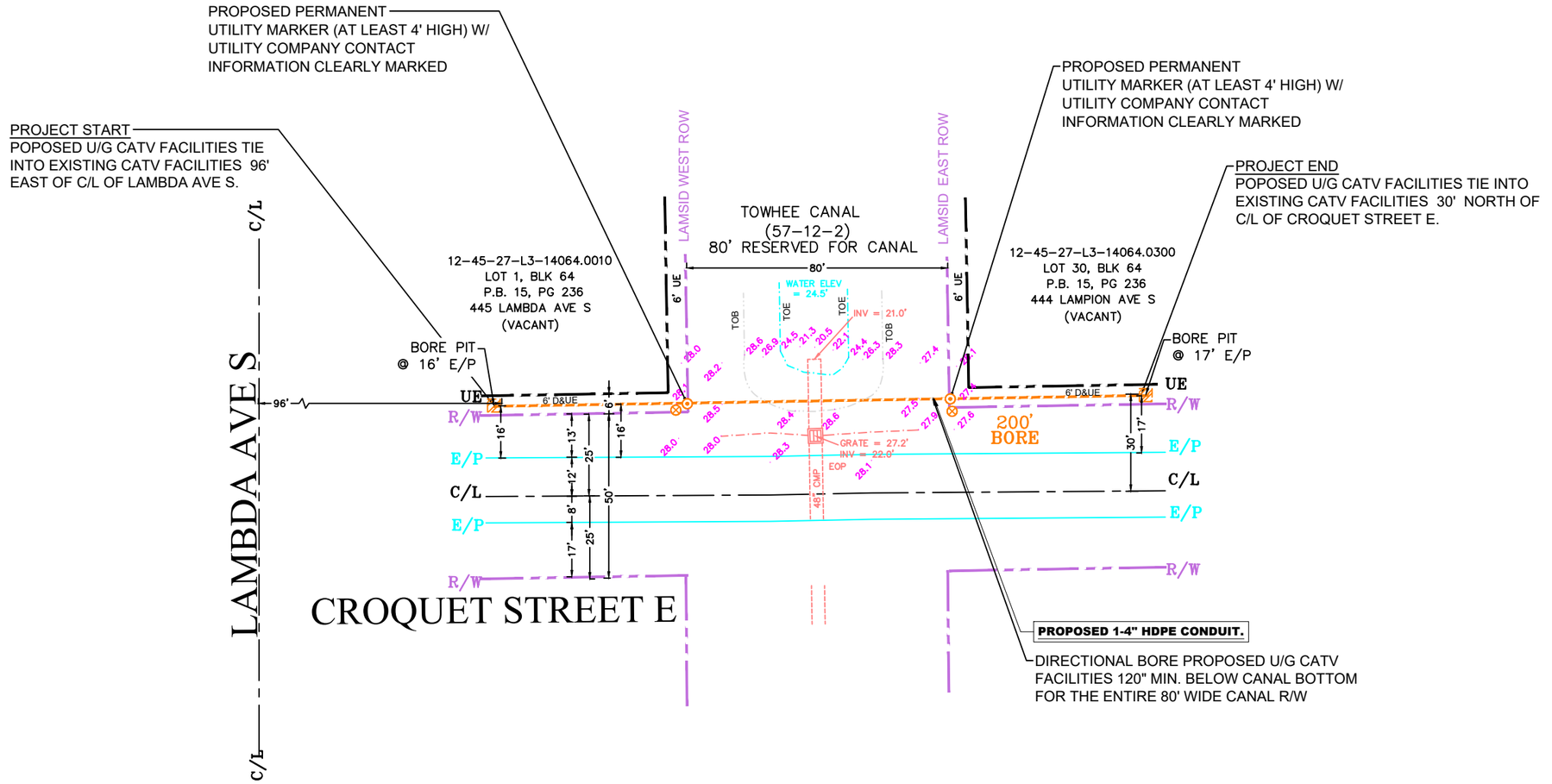
RIGHT-OF-WAY PERMIT

SUBJECT: PROPOSED U/G CATV FACILITIES ON CROQUET ST E.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 1 OF 4
	DATE: 04/30/2026
CIFA: N/A	**MAP:** 26.574308, -81.571226
JB#: JB0002378786	**DRAFTED BY:** A. PERDOMO

445 LAMBDA AVE S
LA-MSID PERMIT
PLAN VIEW

0 20' 40'
(1" = 40')
GRAPHIC SCALE

BINDING SPACE



CONSTRUCTION NOTE:
ALL BORE WORK WILL BE HORIZONTAL DIRECTIONAL DRILL, NOT UNGUIDED BORING.

JB0002378786_445 LAMBDA AVE S_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

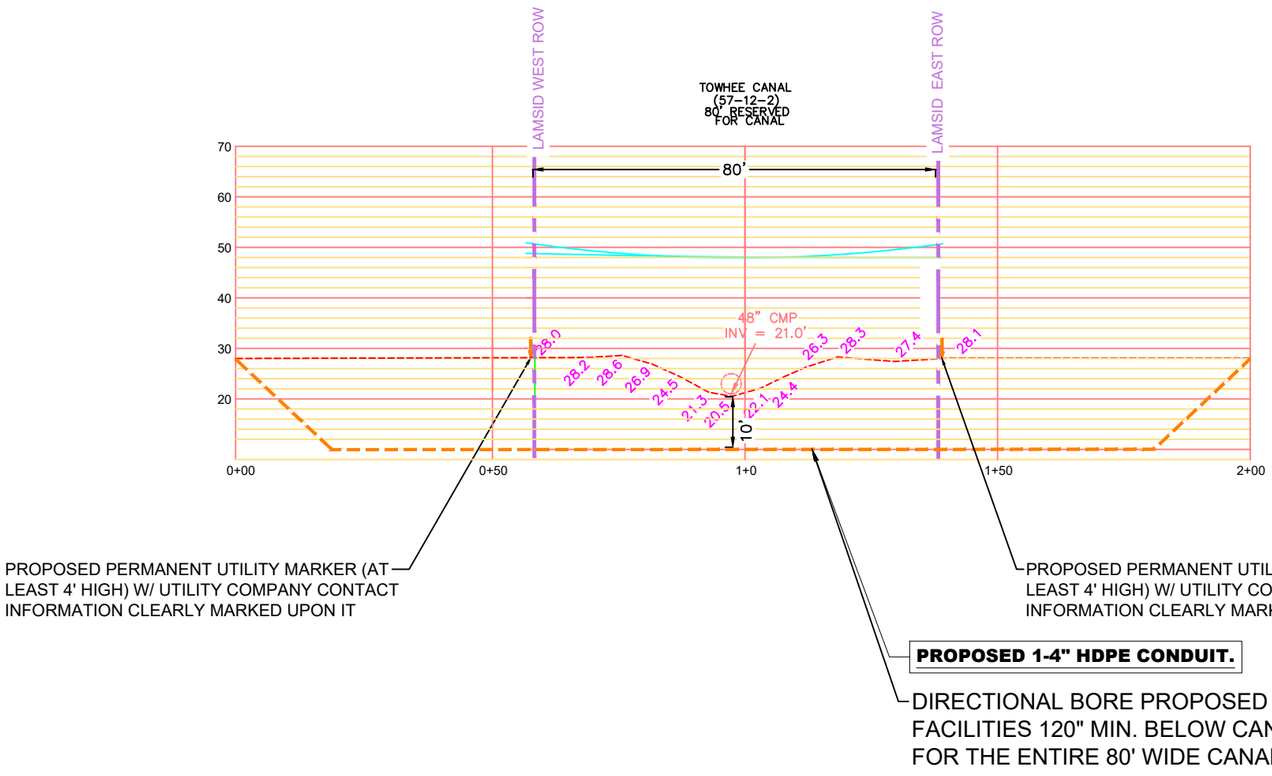
RIGHT-OF-WAY PERMIT

SUBJECT: PROPOSED U/G CATV FACILITIES ON CROQUET ST E.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 2 OF 4
	DATE: 04/30/2026
CIFA: N/A	**MAP:** 26.574308, -81.571226
JB#: JB0002378786	**DRAFTED BY:** A. PERDOMO

BINDING SPACE

445 LAMBDA AVE S
LA-MSID PERMIT
CROSS SECTION

0 15' 30'
(1" = 30')
GRAPHIC SCALE



1" = 30' HORIZONTAL
1" = 30' VERTICAL

CONSTRUCTION NOTE:
BORE MUST BE 10' BELOW THE LOWEST PIPE INVERT OR THE CANAL BOTTOM, WHICHEVER IS LOWER, FOR THE ENTIRE 80' WIDE CANAL RIGHT OF WAY.

CONSTRUCTION NOTE:
ALL CANAL RIGHT OF WAY THAT IS DISTURBED MUST BE RESTORED WITH SOD AND MAINTAINED UNTIL WELL ESTABLISHED. NO SEEDING WILL BE ALLOWED.

PROPOSED PERMANENT UTILITY MARKER (AT LEAST 4' HIGH) W/ UTILITY COMPANY CONTACT INFORMATION CLEARLY MARKED UPON IT

PROPOSED PERMANENT UTILITY MARKER (AT LEAST 4' HIGH) W/ UTILITY COMPANY CONTACT INFORMATION CLEARLY MARKED UPON IT

PROPOSED 1-4" HDPE CONDUIT.

DIRECTIONAL BORE PROPOSED U/G CATV FACILITIES 120" MIN. BELOW CANAL BOTTOM FOR THE ENTIRE 80' WIDE CANAL R/W

JB0002378786_445 LAMBDA AVE S_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

RIGHT-OF-WAY PERMIT

SUBJECT: PROPOSED U/G CATV FACILITIES ON CROQUET ST E.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 3 OF 4
	DATE: 04/30/2026
CIFA: N/A	**MAP:** 26.574308, -81.571226
JB#: JB0002378786	**DRAFTED BY:** A. PERDOMO

BINDING SPACE

445 LAMBDA AVE S
LA-MSID PERMIT
SITE PHOTOS

JB0002378786_445 LAMBDA AVE S_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

RIGHT-OF-WAY PERMIT

SUBJECT: PROPOSED U/G CATV FACILITIES ON CROQUET ST E.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 4 OF 4
	DATE: 04/30/2026
CIFA: N/A	**MAP:** 26.574308, -81.571226
JB#: JB0002378786	**DRAFTED BY:** A. PERDOMO

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (TTC-011A-25) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

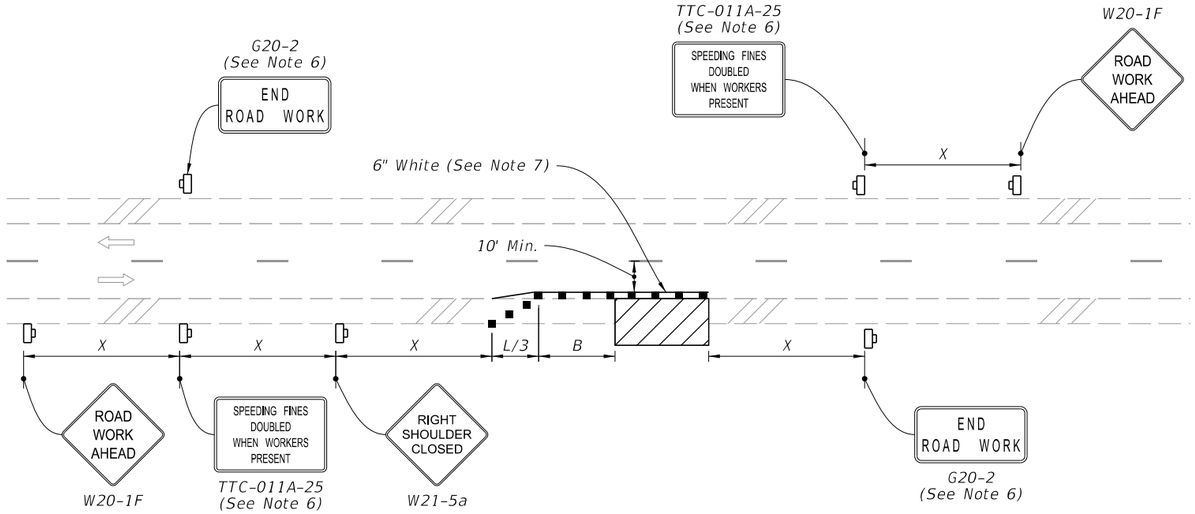
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

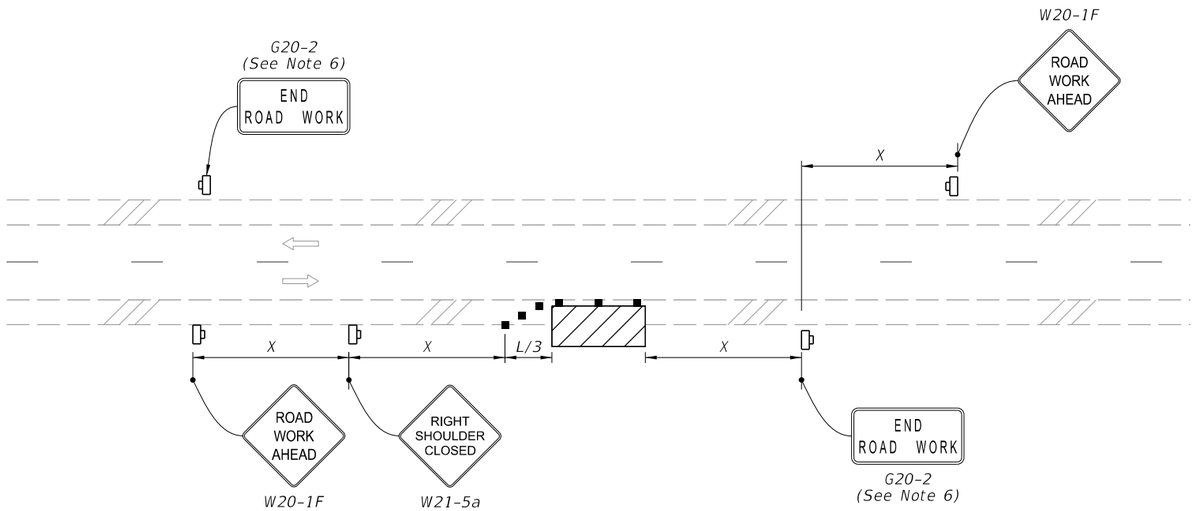
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- ■ Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



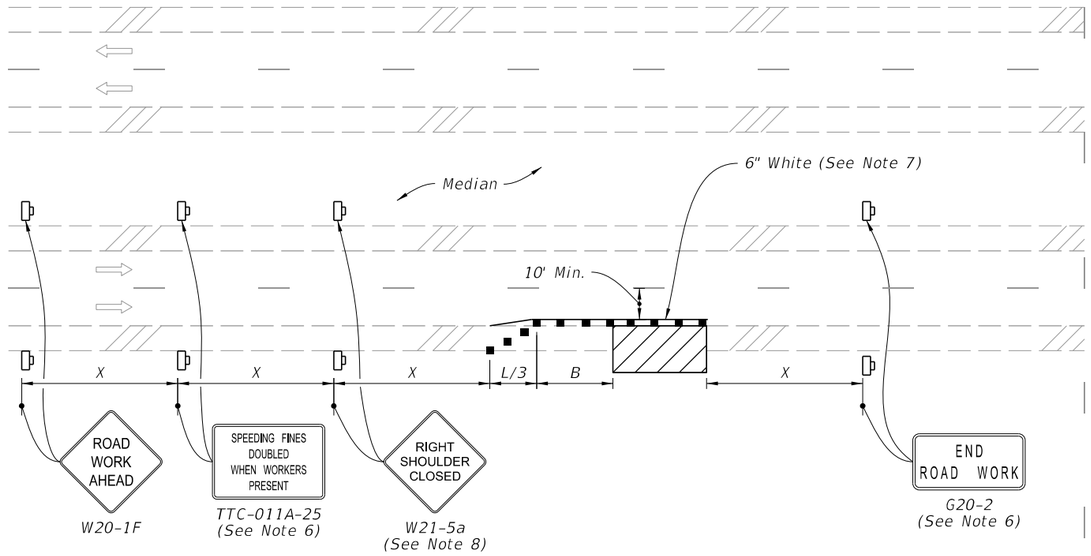
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY WITH WORK ZONE SPEED OF 45 MPH OR LESS



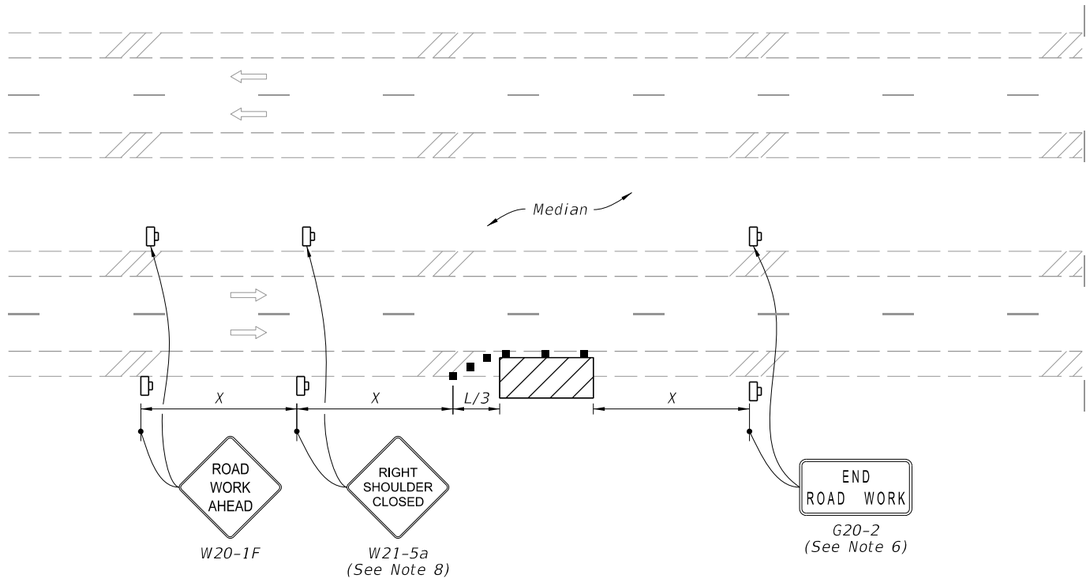
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

10/14/2025 9:34:11 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/25			FY 2026-27 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY WITH WORK ZONE SPEED OF 45 MPH OR LESS



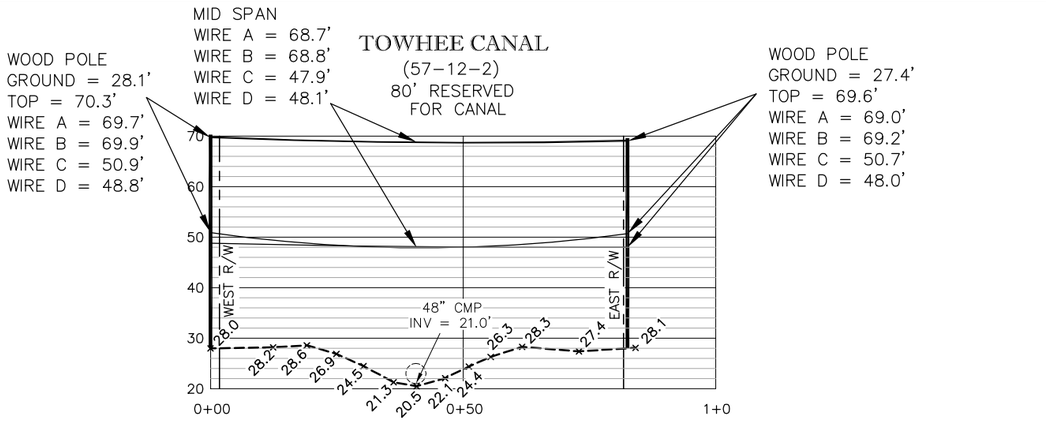
MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

10/14/2025 9:34:21 AM

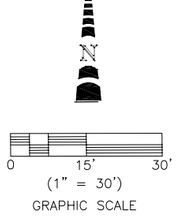
LAST REVISION	REVISION	DESCRIPTION:	FY 2026-27 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX	SHEET
11/01/25					102-602	2 of 2

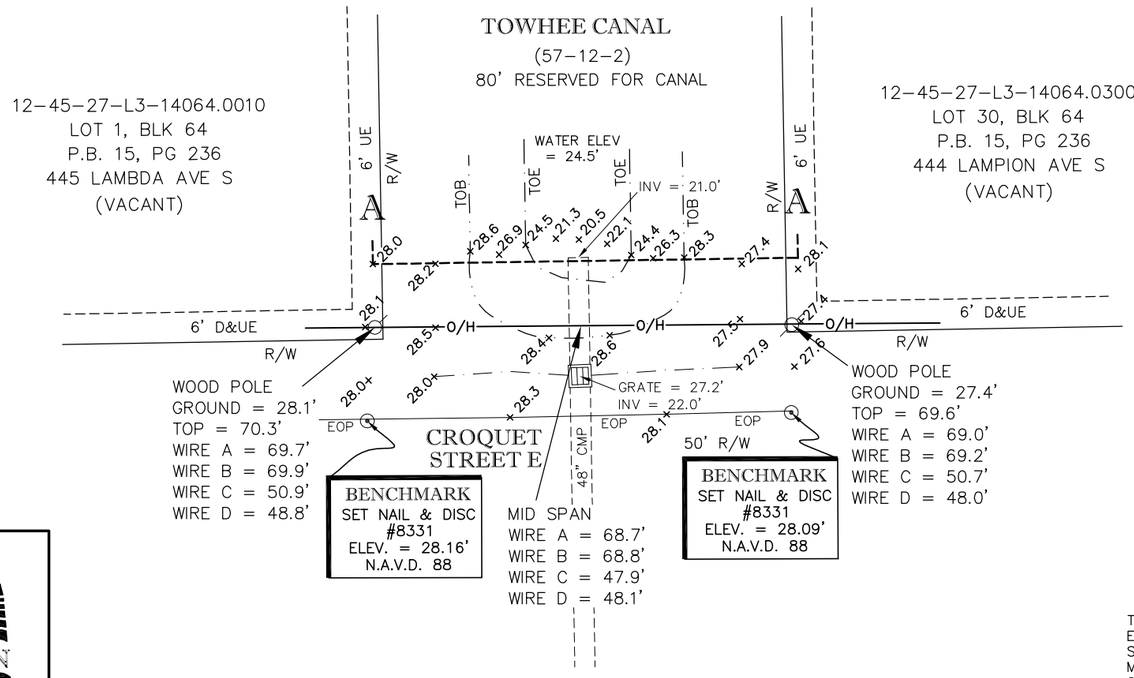


A-A PROFILE VIEW

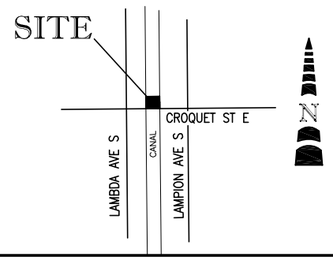
1" = 30' HORIZONTAL
1" = 30' VERTICAL

NOTE:
WIRES A & B ARE HIGH VOLTAGE
WIRES C & D ARE COMMUNICATION WIRES





VICINITY SKETCH
(NOT TO SCALE)



LEGEND:

N&D = NAIL AND DISC
ELEV = ELEVATION
P.B. = PLAT BOOK
PG = PAGE
CONC = CONCRETE
UE = UTILITY EASEMENT
D&UE = DRAINAGE & UTILITY
CMP = CORRUGATED METAL PIPE
EOP = EDGE OF PAVEMENT
R/W = RIGHT OF WAY
TOB = TOP OF BANK
TOE = TOE OF SLOPE
INV = INVERT
N.A.V.D. 88 = NORTH AMERICAN VERTICAL DATUM 1988
= WOOD UTILITY POLE
+28.7' = SPOT ELEVATION
—O/H— = OVERHEAD UTILITY LINES

ASBUILT SURVEY

OF A PARCEL OF LAND LYING IN SECTION 12, TOWNSHIP 45 SOUTH, RANGE 27 EAST, LEHIGH ACRES, LEE COUNTY, FLORIDA

NOTES:

SURVEY BASED ON THE PLAT OF LEHIGH ACRES UNIT 18 AS RECORDED IN PLAT BOOK 15, PAGE 240 AND PLAT OF LEHIGH ACRES UNIT 14 AS RECORDED IN PLAT BOOK 15, PAGE 236, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA AND EXISTING MONUMENTATION.

THIS PLAT PREPARED AS AN ASBUILT SURVEY FOR THE PURPOSE OF LOCATING THE FEATURES WITHIN AND ADJACENT TO THE CANAL CROSSING NORTH OF CROQUET ST EAST BETWEEN LAMBDA AVE S AND LAMPION AVE S, LEHIGH ACRES.

COORDINATES AND BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83, 2011 ADJUSTMENT – EPOCH 2010.00)

THE ELEVATIONS SHOWN HEREON ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) IN FEET AND DECIMALS THEREOF AND BASED UPON CONTINUOUSLY OPERATING FLORIDA PERMANENT REFERENCE NETWORK (FPRN) STATIONS MAINTAINED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.

PARCEL LIES WITHIN ZONE X, HAVING NO FLOOD ELEVATION PER INSURANCE RATE MAP 125124 0476F, HAVING AN EFFECTIVE DATE OF AUG 28, 2008.

THE F.E.M.A. FLOOD ZONE INFORMATION INDICATED HEREON IS BASED ON MAPS SUPPLIED BY THE FEDERAL GOVERNMENT. THIS FLOOD INFORMATION MUST BE VERIFIED WITH ALL PERMITTING REGULATORY ENTITIES PRIOR TO COMMENCING ANY WORK OR APPLICATION DEPENDENT ON SAID FLOOD INFORMATION.

UNDERGROUND IMPROVEMENTS, UTILITIES AND/OR FOUNDATIONS WERE NOT LOCATED UNLESS OTHERWISE NOTED.

WETLANDS, IF ANY, WERE NOT LOCATED.

SUBJECT TO EASEMENTS, RESTRICTIONS, RESERVATIONS AND RIGHTS-OF-WAY (RECORDED AND UNRECORDED, WRITTEN AND UNWRITTEN).

DATE OF LAST FIELD WORK: 3-31-2026.

BY: _____
NOAH JOHN MEDEIROS
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS#7345

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

THIS TOPOGRAPHIC SURVEY MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, PURSUANT TO SECTION 472.027, FLORIDA STATUES AND CHAPTER 5J-17.05, FLORIDA ADMINISTRATIVE CODE.

THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF AN ABSTRACT OF TITLE AND ALL MATTERS OF TITLE SHOULD BE REFERRED TO AN ATTORNEY AT LAW.

THIS SURVEY HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY NOAH JOHN MEDEIROS USING A DIGITAL SIGNATURE AND DATE. PRINT COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

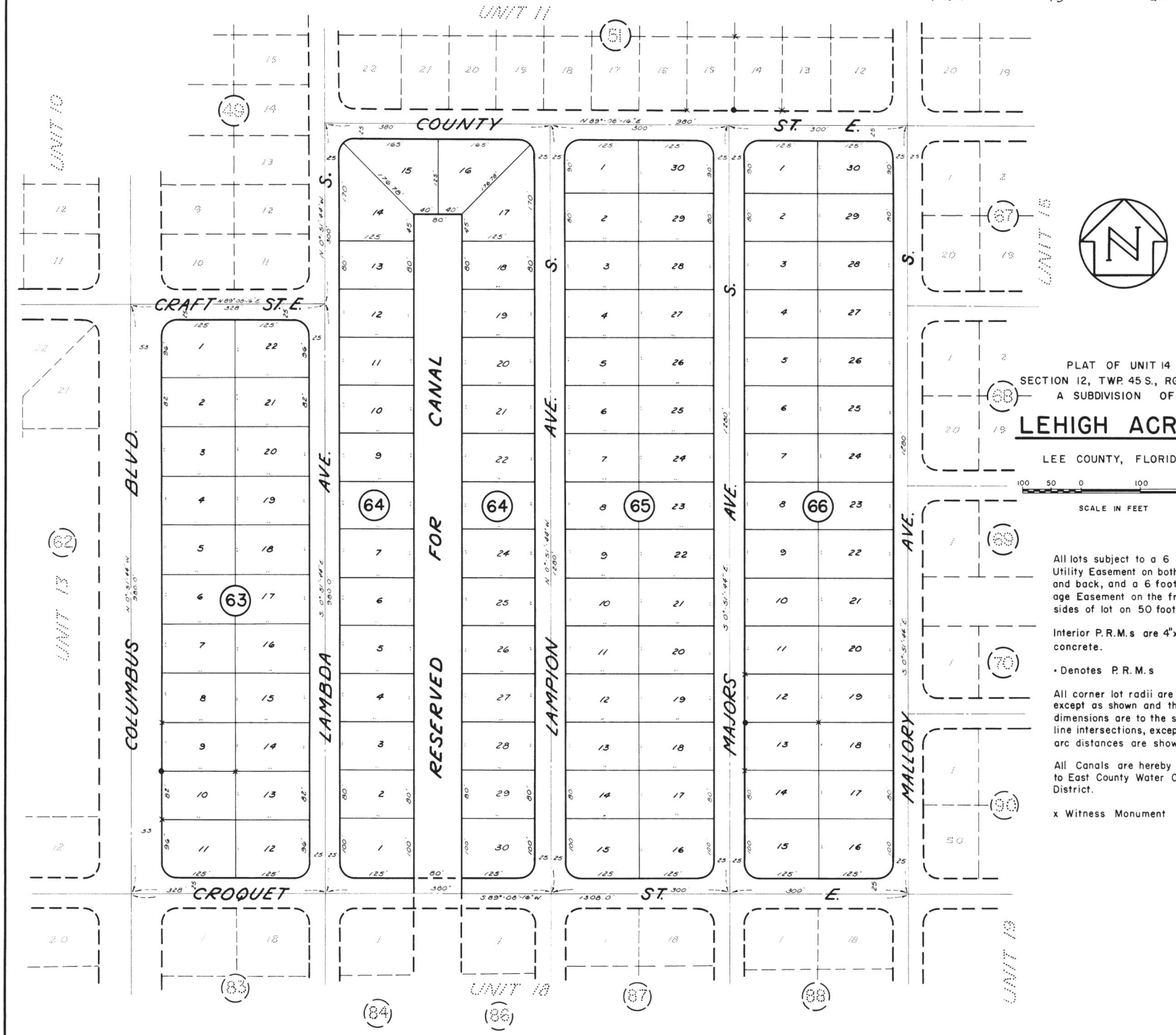
CROQUET ST EAST, LEHIGH ACRES

TITLE: ASBUILT SURVEY

KEYSTONE
A CLS COMPANY
www.keystoneconsultants.net
10970 S. CLEVELAND AVE.
SUITE #605
FORT MYERS, FLORIDA 33907
PHONE: (239) 275-8575
FAX: (239) 275-8457
LB #8331

FILE NAME:	FIELD BOOK/PAGE:	PROJECT NO.:	SHEET:
15777SR.DWG	SEE FILE	15777	1 OF 1

SURVEY DATE:	DRAWN BY:	SCALE:	CHECKED BY:	FILE NO. (S-T-R)
4/07/26	BUD	1"= 30'	NJM	12-45-27


UNIT 11
COUNTY ST. E.
UNIT 10
CRAFT ST. E.
COLUMBUS BLVD.
LAMBDA AVE.
CANAL
RESERVED FOR
LAMPION AVE.
MAJORS AVE.
MALLORY AVE.
UNIT 15
UNIT 13
UNIT 12
UNIT 16
CROQUET ST. E.
UNIT 18
N
PLAT OF UNIT 14
SECTION 12, TWP. 45 S., RGE. 27E.
A SUBDIVISION OF
LEHIGH ACRES
LEE COUNTY, FLORIDA
100 50 0 100 200
SCALE IN FEET
All lots subject to a 6 foot Utility Easement on both sides and back, and a 6 foot Drainage Easement on the front and sides of lot on 50 foot R/W
Interior P.R.M.s are 4"x 4"x 24" concrete.
• Denotes P.R.M.s
All corner lot radii are 25 feet except as shown and the lot dimensions are to the straight line intersections, except where arc distances are shown.
All Canals are hereby dedicated to East County Water Control District.
x Witness Monument

PLAT OF SECTION 12

A SUBDIVISION OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

LEE COUNTY LAND AND TITLE COMPANY

DEVELOPERS

DESCRIPTION

ALL OF SECTION 12, TOWNSHIP 45 SOUTH, RANGE 27 EAST, LEE COUNTY, FLORIDA

KNOW ALL MEN BY THESE PRESENTS, THAT LEE COUNTY LAND AND TITLE COMPANY, A CORPORATION UNDER THE LAWS OF FLORIDA, BEING THE OWNER OF THE LAND DESCRIBED IN THE CAPTION HEREON HAS CAUSED THIS PLAT OF SECTION 12, LEHIGH ACRES TO BE MADE AND DO HEREBY DEDICATE TO THE PERPETUAL USE OF THE PUBLIC STREETS, ROADS, DRIVES AND/OR LANES SHOWN HEREON. ALL CANAL RIGHTS OF WAY ARE HEREBY DEDICATED TO THE EAST COUNTY WATER CONTROL DISTRICT.

IN WITNESS WHEREOF GERALD H. GOULD AND EDWARD SHAPIRO, RESPECTIVELY PRESIDENT AND SECRETARY OF LEE COUNTY LAND AND TITLE COMPANY, BY AND WITH AUTHORITY OF IT'S BOARD OF DIRECTORS HAVE EXECUTED THESE PRESENTS FOR AND ON BEHALF OF SAID CORPORATION AND CAUSED IT'S CORPORATE SEAL TO BE AFFIXED THIS 4TH DAY OF June A.D. 1963

LEE COUNTY LAND AND TITLE CO.

BY Gerald H. Gould
President

ATTEST Edward Shapiro
Secretary

STATE OF FLORIDA
COUNTY OF LEE

I HEREBY CERTIFY THAT ON THIS DAY, BEFORE ME AN OFFICER DULY AUTHORIZED TO TAKE ACKNOWLEDGEMENTS, PERSONALLY APPEARED GERALD H. GOULD AND EDWARD SHAPIRO, RESPECTIVELY PRESIDENT AND SECRETARY OF LEE COUNTY LAND AND TITLE COMPANY, TO ME KNOWN TO BE THE PERSONS DESCRIBED IN AND WHO EXECUTED THE FOREGOING DEDICATION AS PRESIDENT AND SECRETARY RESPECTIVELY OF LEE COUNTY LAND AND TITLE COMPANY FOR THE PURPOSES THEREIN SET FORTH.

WITNESS MY HAND AND OFFICIAL SEAL AT FORT MYERS, SAID COUNTY AND STATE THIS 5TH DAY OF June A.D. 1963

Jean Wilhelm
NOTARY PUBLIC STATE OF FLORIDA AT LARGE
My Commission Expires

ALL BEARINGS ARE FROM THE TRUE MERIDIAN BASED ON OBSERVATION OF POLARIS AT S.W. CORNER OF SECTION 30, TOWNSHIP 44, RANGE 27, LEE COUNTY, FLORIDA

APPROVALS

THIS PLAT APPROVED THIS 5TH DAY OF June A.D. 1963 IN OPEN MEETING OF THE BOARD OF COUNTY COMMISSIONERS OF LEE COUNTY, FLORIDA.

APPROVED Herman J. Hastings
Chairman

D. Z. Starnes
Clerk

Frank H. Reeves
County Attorney

[illegible]
County Engineer

I HEREBY CERTIFY THAT THIS PLAT OF SECTION 12, LEHIGH ACRES, HAS BEEN EXAMINED BY ME AND FROM MY EXAMINATION I FIND THAT SAID PLAT COMPLIES IN FORM WITH THE REQUIREMENTS OF SURVEY LAWS OF FLORIDA.

I FURTHER CERTIFY THAT SAID PLAT WAS FILED FOR RECORD AT FORT MYERS THIS 6TH DAY OF June A.D. 1963, AND DULY RECORDED IN PLAT BOOK 15 ON PAGE 222-241 OF PUBLIC RECORDS OF LEE COUNTY, FLORIDA.

D. Z. Starnes
Clerk Of The Circuit Court In And For Lee County

CERTIFICATE OF SURVEY

I HEREBY CERTIFY THAT THIS PLAT IS A CORRECT REPRESENTATION OF A SURVEY MADE UNDER MY DIRECTION AND THAT PERMANENT REFERENCE MONUMENTS HAVE BEEN PLACED AS SHOWN.

P. V. Pamme
FLORIDA REGISTERED LAND SURVEYOR No. 1198

THE OWNER DOES HEREBY DEDICATE TO THE PERPETUAL USE OF THE EAST COUNTY WATER CONTROL DISTRICT THE CANAL RIGHTS OF WAY SHOWN HEREON AND ALL PRESENT AND FUTURE WORKS BUILT OR CONSTRUCTED WITHIN THESE RIGHTS OF WAY SHALL BE OWNED AND MAINTAINED BY SAID EAST COUNTY WATER CONTROL DISTRICT.

PART IV #26-83

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ Approved ___ Denied ___

District Manager: _____ Date: _____

Comments:

The referenced permit application for Comcast Bore under Towhee Canal (57-12-2) at 445 Lambda Ave. S., in Lehigh Acres, submitted by Comcast Corporation, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: PER #26-84, Comcast Bore under Charlie Diversion Canal (46-24-2) at Hanna Ave. N.

Meeting Date: June 15, 2026

Agenda Item # 2I

[x] **CONSENT** [ ] **ACTION** [ ] **OLD BUSINESS** [ ] **NEW BUSINESS**

Request Initiated By: [ ] **COMMISSIONER** _____ [ ] **ATTORNEY**

[ ] **BOARD** [x] **MANAGER** [ ] **ENGINEER** [ ] **AUDITOR**

Recommended motion: Move to approve PPER #26-84, Comcast Bore under Charlie Diversion Canal (46-24-2) at Hanna Ave. N., with any listed stipulations.

What the action accomplishes: Allows Comcast to install fiber cables under District canals while ensuring they stay 10-feet below the bottom elevation of each canal.

Fiscal Impact: Permit Fees: $2,550.00

Staff comments: Approved according to the plans submitted May 11, 2026.

Staff review and recommended approval:

[x] **MANAGER** [ ] **ASSISTANT DISTRICT MGR**

[ ] **ATTORNEY** [ ] **FIELD SUPERINTENDENT**

[x] **ENGINEER** [x] **CONTROLLER**

Board Action:

[ ] **APPROVED** [ ] **DENIED** [ ] **DEFERRED**

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Comcast Cable Communications, 12600 Westlinks Drive, Suite #4, Fort Myers, FL 33913, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under Charlie Diversion Canal (46-24-2), along the east side of Hanna Ave. N., between 30th St. W. & 28th St. W., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-84

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-84 is approved according to the plans submitted May 11th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 120' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Hanna Ave. N.

PART I

DATE SUBMITTED: 04 - 11 - 26

PERMIT #: 26 - 84

APPLICATION FOR A PERMIT

***Note**: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: JOANIE GEORGE **PHONE #:** (757)650-4070

PROJECT NAME: JB0002384758-LEE2-FLLAT00N00-PH2-P3

TOTAL ACREAGE: 0.05

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 2901 HANNA AVE N					
Mailing Address:	**NA**				
City:	**LEHIGH ACRES**	**State:**	**FL**	**Zip:**	**33974**

STRAP NUMBERS (*attach additional sheet if necessary):*

2	6	-	4	4	-	2	6	-	L	2	-	0	8	0	5	0	-	0	0	7	0
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				
		-			-			-			-						-				

Brief description of proposed project:

Application for: Comcast proposes to bore 165' across Charlie Diversion Canal
Starting south on Hanna Ave N going north crossing Charlie Diversion Canal

Is the project proposed to be developed in phases? ☐ Yes X No

Estimated # of Phases:	1	
***Permit Fee:**	$ $2,550.00	**(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

RECEIVED
MAY 11 2025
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	Comcast Cable Communications - Marc Louis						
Mailing Address:	Street:	12600 Westlinks Dr #4					
City:	Ft Myers	State:	FL			Zip:	33913
Phone No.	Area Code:	239	Number:	986-7043		Ext.	
Fax No.	Area Code:		Number:	-			
E-mail Address:	Marc_louis@cable.comcast.com						

B. Relationship of applicant to property*:

☐ Owner* ☐ Trustee* ☐ Option holder* ☐ Lessee*

☐ Contract Purchaser* X Other (indicate)* UTILITY

C.

Name of Developer:							
Mailing Address:	Street:						
City:		State:				Zip:	
Phone No.	Area Code:	( )	Number:	-		Ext.	
Fax No.	Area Code:	( )	Number:	-			
E-mail Address:							

D.

Name of Authorized Agent(s):	Joanie George						
Mailing Address:	Street:	13277 NE 235th Ct					
City:	Raiford	State:	FL			Zip:	32083
Phone No.	Area Code:	(757)	Number:	650-4070		Ext.	
Fax No.	Area Code:	( )	Number:	-			
E-mail Address:							

E.

Name of Property Owner:							
Mailing Address:	Street:						
City:		State:				Zip:	
Phone No.	Area Code:	( )	Number:	-		Ext.	
Fax No.	Area Code:	( )	Number:	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

PRIMARY STRAP NUMBER: | | | - | | | - | | | - | | | - | | | | | - | | | |

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

J. Georgi
SIGNATURE OF APPLICANT

Joanie Georgi
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 6 day of May (m), 2026 (y), by J. Georgi who is personally know to me or has produced _____ as identification.

Notary Public State of Florida
Ashley Woods
My Commission HH 337625
Expires 12/1/2026

Ashley Woods
SIGNATURE OF NOTARY PUBLIC

Ashley Woods
PRINTED NAME OF NOTARY PUBLIC

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		State:				Zip:	
Business No.	Area Code:	( )	Number:	-		Ext.	
Other Contact:							

ENGINEER

Name:							
Mailing Address:							
City:		State:				Zip:	
Business No.	Area Code:	( )	Number:	-		Ext.	
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:							
Mailing Address:							
City:		State:				Zip:	
Business No.	Area Code:	( )	Number:	-		Ext.	
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
N/A	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
N/A	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
N/A	2	**Copy of approved SWFMD permit,** for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

ıeNet Communications Corp

061048

~~LEHIGH ACRES MUNICIPAL SERVICE - IMPROVEMENT DISTRICT~~

DATE	INVOICE NO.	DESCRIPTION	INVOICE AMOUNT	DEDUCTION	BALANCE
5/5/2026	05042026 B	JB0002384758 - FLLAT00N00 PH2 PERMIT 3	2,550.00		2,550.00

RECEIVED
MAY 11 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

HECK ATE		CHECK NUMBER		TOTALS			

PLEASE DETACH THIS PORTION AND RETAIN FOR YOUR RECORDS 9321

DOCUMENT IS PRINTED ON CHEMICALLY REACTIVE PAPER - THE BACK OF THIS DOCUMENT INCLUDES A TAMPER EVIDENT CHEMICAL WASH WARNING BOX

TrueNet Communications Corp.
90 FORT WADE RD.
SUITE 230
PONTE VEDRA, FL 32081
(904) 777-9052
APINV@TrueNetCommunications.com

Bank of America
11-85/1210 GL

061048

COPY

Pay: **********two thousand five hundred fifty and 00/100

DATE	CHECK NO.	AMOUNT
May 4, 2026	61048	$*****2,550.00

PAY
O THE
RDER
OF

LEHIGH ACRES MUNICIPAL SERVICE - IMPROVEMENT DISTRICT
601 EAST COUNTY LANE
LEHIGH ACRES FL 33936

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

HEAT SENSITIVE COLOR FADES WITH HEAT

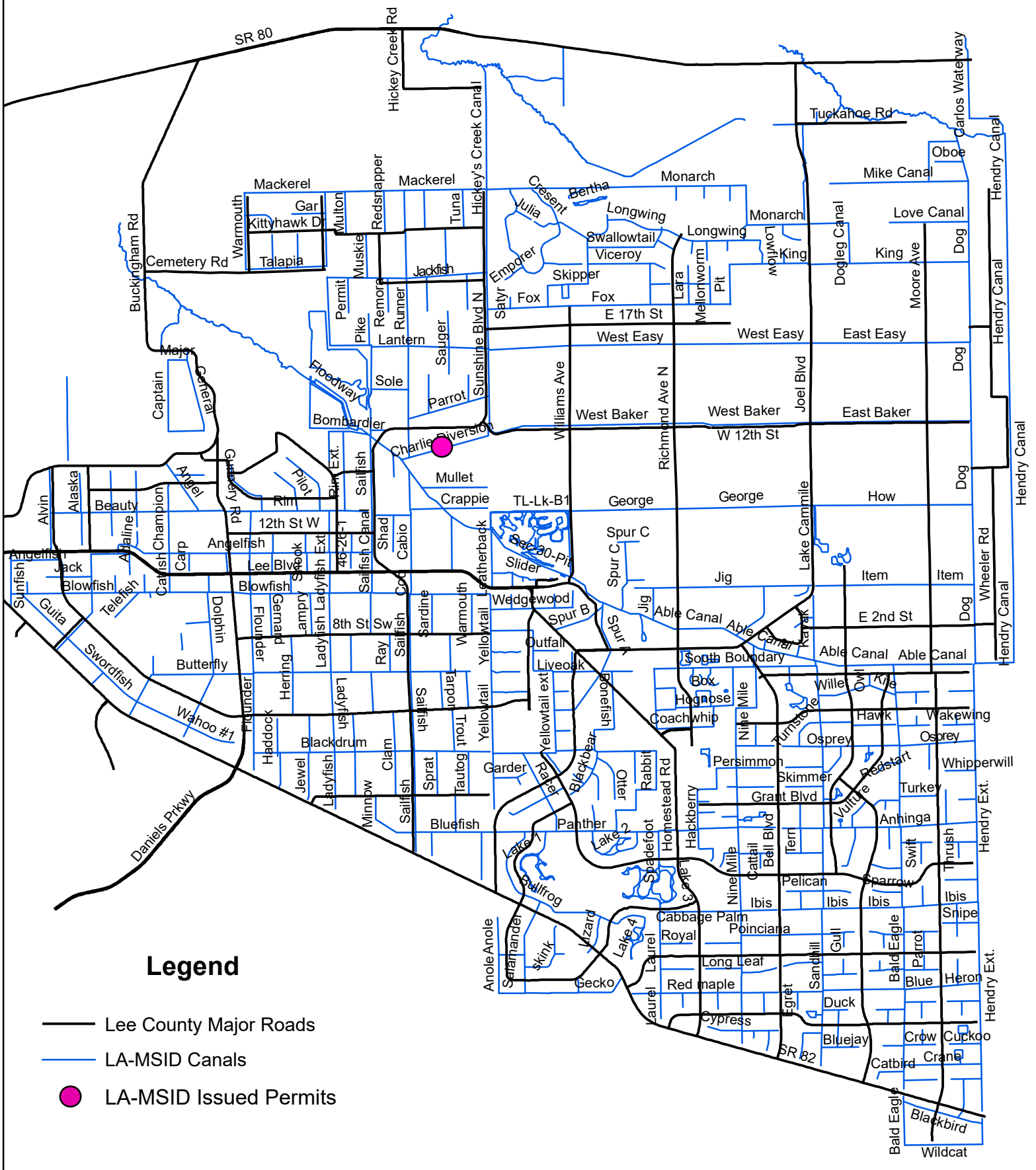
ORIGINAL DOCUMENT HAS RED KEYHOLE ICON HEAT SENSITIVE WITH HEAT

⑈061048⑈ ⑆121000358⑆ 001233592930⑈

Permit #26-84

COPY

Permit # 2026-84



Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

BINDING SPACE

2901 HANNA AVE N
LA-MSID PERMIT
NOTES & TYPICALS

SITE MAP
SCALE: NONE

LEE CO. AERIAL & U/G NOTES

ALL PROPOSED CONSTRUCTION WILL BE PER DOT SPECIFICATIONS AS WELL AS ALL NESC SAFETY CODES.

ALL PROPOSED CATV WILL BE WITHIN THE DOT RIGHT-OF-WAY.

ALL AERIAL CANAL RIGHT-OF-WAY CROSSINGS MUST BE A MINIUM HEIGHT OF 40' ABOVE THE TOP OF THE CANAL BANK

ALL PROPOSED CANAL RIGHT-OF-WAY BORES MUST BE A MINIMUM HEIGHT OF 10' (120") BELOW THE BOTTOM OF THE CANAL OR PIPE INVERT

ALL PROPOSED UNDERGROUND CATV WILL BE BURIES A MINIMUM OF 66" DEEP, EXCEPT BORES 48" DEEP

ALL PROPOSED UNDERGROUND CATV ROAD BORES WILL USE FDOT APPROVED DIRECTIONAL BORE MACHINE, AS WELL AS FDOT APPROVED CONDUIT

ALL PROPOSED CATV ROAD BORES WILL EXTEND A MINIMUM OF 8' BEYOND THE EDGE OF PAVEMENT

ALL PROPOSED CATV DRIVEWAY BORES WILL EXTEND A MINIMUM OF 4' BEYOND THE EDGE OF PAVEMENT

ALL PROPOSED CATV WILL BE .625" OR .875" DIAMETER, INSULATED COAXIAL CABLE OR 1.0" DIAMETER, INSULATED FIBER OPTIC CABLE, AND WILL BE LASHED TO .250" STEEL STRAND CABLE USING .125" STD. GALV. LASHING WIRE

ALL PROPOSED AERIAL CATV CROSSINGS (BOTH ROADWAYS AND DRIVEWAYS) WILL HAVE MINIMUM MID-SPAN HEIGHT OF 18'-0".

ALL PAEALLEL PROPOSED AERIAL CATV WILL HAVE MINIMUM MID-SPAN HEIGHT OF 16'-6" AS PER NESC SPECIFICATIONS.

LOCATES WILL BE REQUIRED IN ALL PROPOSED UNDERGROUND AREAS AT LEAST 48 HRS. PRIOR TO CONSTRUCTION.

NOTIFICATIONS TO ALL UTILITIES INVOLVED WILL BE MADE PRIOR TO CONSTRUCTION.

GENERAL NOTES

MAINTENANCE OF TRAFFIC TO BE SUPERVISED BY A CERTIFIED PERSON.

TEST RESULTS ARE REQUIRED UPON REQUEST.

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY LANE CLOSURES OR BEGINNING ANY CONSTRUCTION WITHIN THE DOT RIGHT-OF-WAY.

ALL WORK PERFORMED WITHIN THE DOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH DOT DESIGN STANDARDS, SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE UTILITY ACCOMODATION MANUAL, LATEST EDITIONS.

ENGINEER'S CERTIFICATION TOGETHER WITH AS-BUILTS, IF REQUIRED TO BE SUBMITTED WITHIN 30 DAYS OF COMPLETION.

ALL CONCRETE TO BE REMOVED SHALL BE SAW CUT AT THE NEAREST GOOD JOINT. GUTTER SHALL BE SAW CUT BETWEEN ASPHALT AND GUTTER BEFORE REMOVAL.

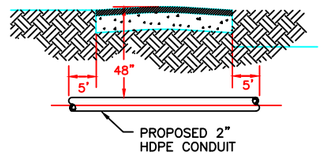
IT WILL BE THE RESPONSIBILITY OF THE PERMITTEE TO REPAIR ANY DAMAGE TO DOT FACILITIES CAUSED BY THE CONSTRUCTION OF THE PROJECT.

ALL CONCRETE SHALL BE 3,000 PSI. APPROVED DOT MIX DESIGN.

LEGEND

	BORE
	SWALE/DITCH
	GUARD RAIL
GAS	GAS
PWR	POWER
	U/G CATV
STLT	STREET LIGHT
SD	STORM DRAIN
SWR	SEWER
TELE	TELEPHONE
	TRAFFIC SIGNAL
W	WATER
	MISC U/G UTILITY
	PROPOSED U/G CATV
	PROPOSED AERIAL FIBER
	PROPOSED AERIAL CATV
℄	CENTERLINE
E/P	EDGE OF PAVEMENT
B/C	BACK OF CURB
R/W	RIGHT OF WAY

	POWER POLE
	POWER TRANSFORMER POLE
	JOINT USE TRANSFORMER POLE
	PHONE POLE
	CATV POLE
S	STEEL POLE
C	CONCRETE POLE
	JOINT USE POLE
R	RISER
	ANCHOR
	OVERHEAD GUY
V	CATV FIBER VAULT
V	TRAFFIC SIGNAL VAULT
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL BOX
A	CROSS SECTION REFERENCE
XX	FTG BTWN REFERENCE POINTS
	REFERNCE POINT
	STORM DRAIN



TYPICAL DRIVEWAY DIRECTIONAL BORE
N.T.S.

PROJECT TOTALS

PROP. BURIED CATV:	165'
PROP. OH CATV:	0'
TOTAL PROP. CATV:	165' (0.03MI.)

MOT NOTES

TRAFFIC CONTROL SHALL COMPLY WITH FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND F.D.O.T. DESIGN STANDARD #NO. 600.

JB0002384758_2901 HANNA AVE N_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

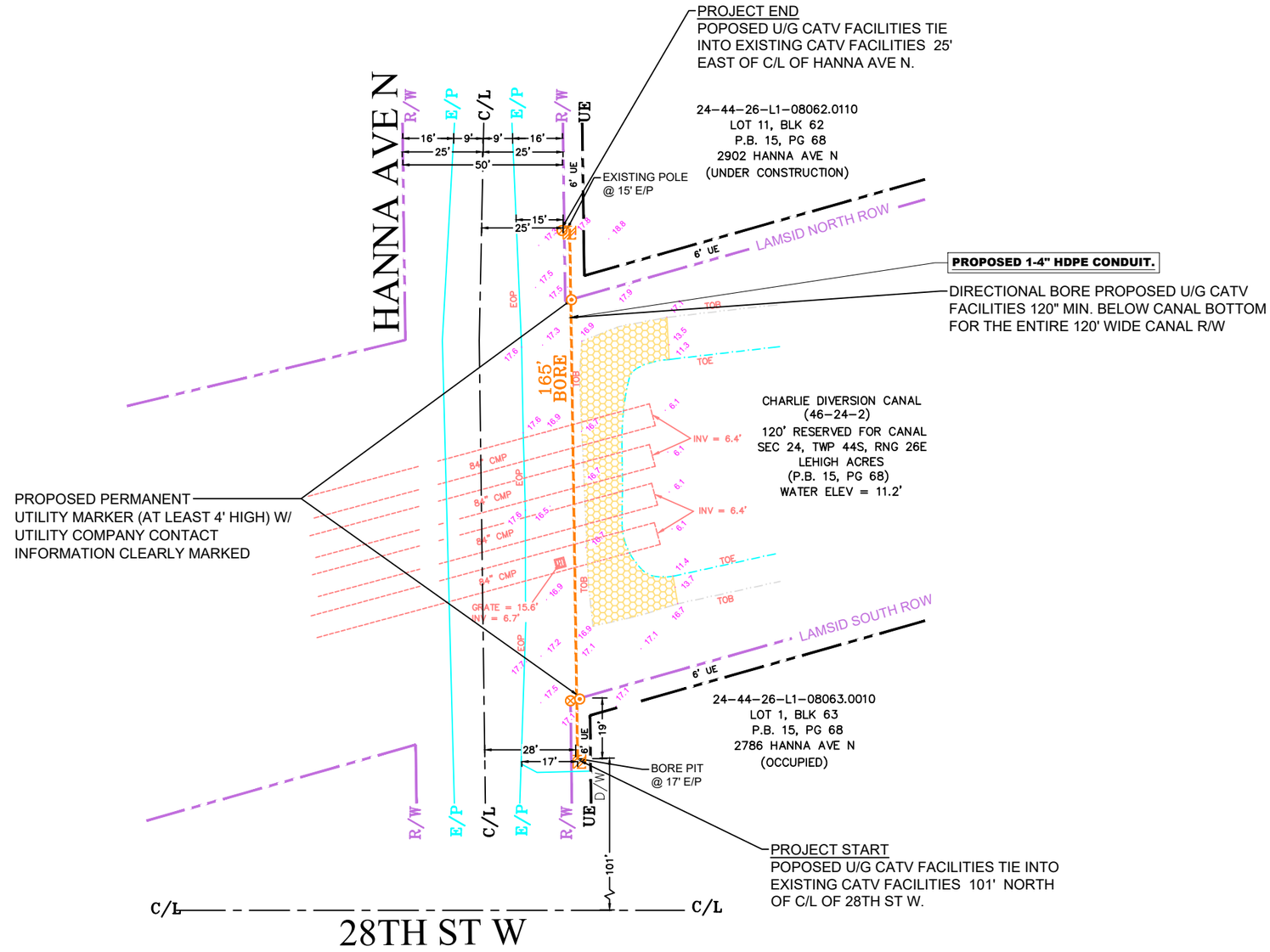
RIGHT-OF-WAY PERMIT

SUBJECT: PROPOSED U/G CATV FACILITIES ON HANNA AVE N.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 1 OF 4
	DATE: 05/01/2026
CIFA: N/A	**MAP:** 26.639791, -81.671102
JB#: JB0002384758	**DRAFTED BY:** A. PERDOMO

2901 HANNA AVE N
LA-MSID PERMIT
PLAN VIEW

0 20' 40'
(1" = 40')
GRAPHIC SCALE

BINDING SPACE



CONSTRUCTION NOTE:
ALL BORE WORK WILL BE HORIZONTAL DIRECTIONAL DRILL, NOT UNGUIDED BORING.

JB0002384758_2901 HANNA AVE N_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

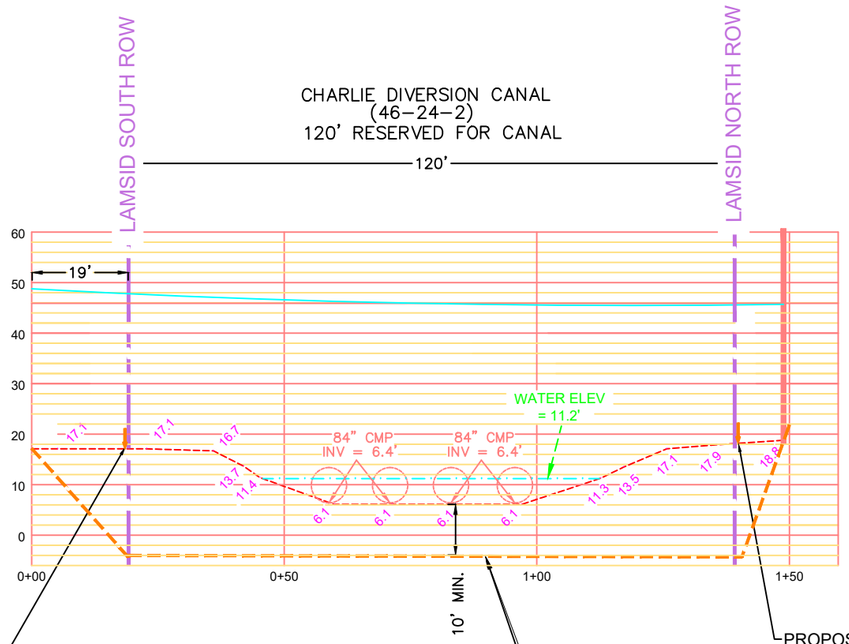
LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

RIGHT-OF-WAY PERMIT

SUBJECT: PROPOSED U/G CATV FACILITIES ON HANNA AVE N.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 2 OF 4
	DATE: 05/01/2026
CIFA: N/A	**MAP:** 26.639791, -81.671102
JB#: JB0002384758	**DRAFTED BY:** A. PERDOMO

2901 HANNA AVE N
LA-MSID PERMIT
CROSS SECTION

BINDING SPACE



PROPOSED PERMANENT UTILITY MARKER (AT LEAST 4' HIGH) W/ UTILITY COMPANY CONTACT INFORMATION CLEARLY MARKED UPON IT

PROPOSED PERMANENT UTILITY MARKER (AT LEAST 4' HIGH) W/ UTILITY COMPANY CONTACT INFORMATION CLEARLY MARKED UPON IT

PROPOSED 1-4" HDPE CONDUIT.

DIRECTIONAL BORE PROPOSED U/G CATV FACILITIES 120" MIN. BELOW CANAL BOTTOM FOR THE ENTIRE 120' WIDE CANAL R/W

GRAPHIC SCALE

CONSTRUCTION NOTE:
BORE MUST BE 10' BELOW THE LOWEST PIPE INVERT OR THE CANAL BOTTOM, WHICHEVER IS LOWER, FOR THE ENTIRE 120' WIDE CANAL RIGHT OF WAY.

CONSTRUCTION NOTE:
ALL CANAL RIGHT OF WAY THAT IS DISTURBED MUST BE RESTORED WITH SOD AND MAINTAINED UNTIL WELL ESTABLISHED. NO SEEDING WILL BE ALLOWED.

JB0002384758_2901 HANNA AVE N_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

RIGHT-OF-WAY PERMIT

SUBJECT: PROPOSED U/G CATV FACILITIES ON HANNA AVE N.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 3 OF 4
	DATE: 05/01/2026
CIFA: N/A	**MAP:** 26.639791, -81.671102
JB#: JB0002384758	**DRAFTED BY:** A. PERDOMO

BINDING SPACE

2901 HANNA AVE N
LA-MSID PERMIT
SITE PHOTOS

JB0002384758_2901 HANNA AVE N_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

RIGHT-OF-WAY PERMIT

SUBJECT: PROPOSED U/G CATV FACILITIES ON HANNA AVE N.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 4 OF 4
	DATE: 05/01/2026
CIFA: N/A	**MAP:** 26.639791, -81.671102
JB#: JB0002384758	**DRAFTED BY:** A. PERDOMO

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (TTC-011A-25) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

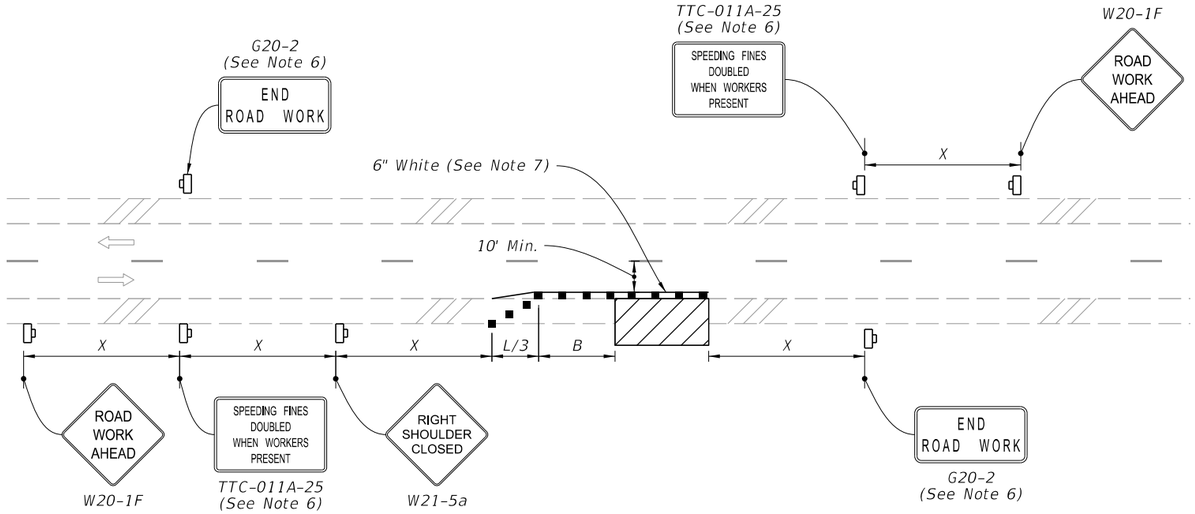
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

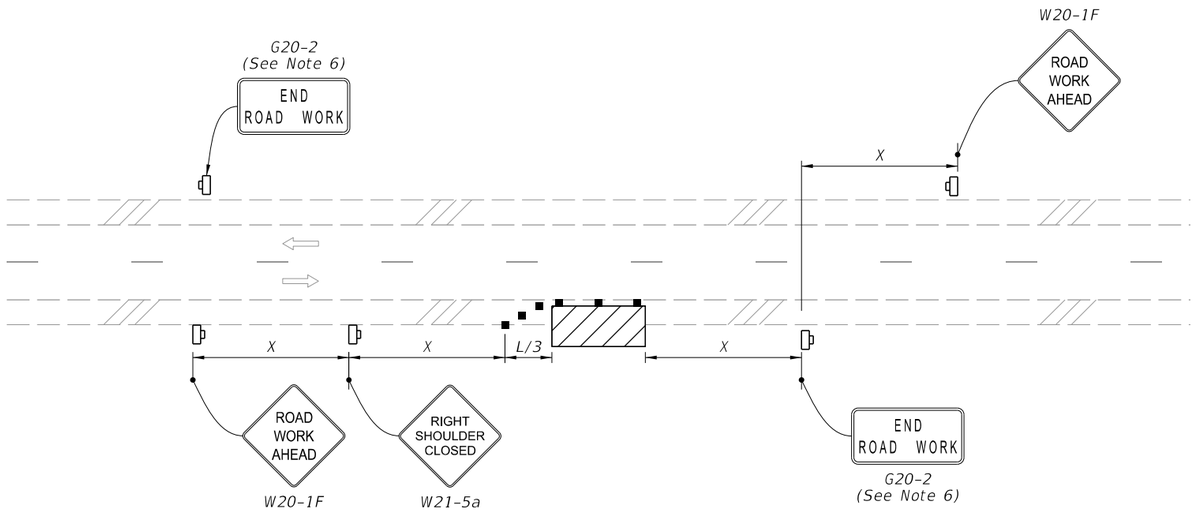
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- ■ Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



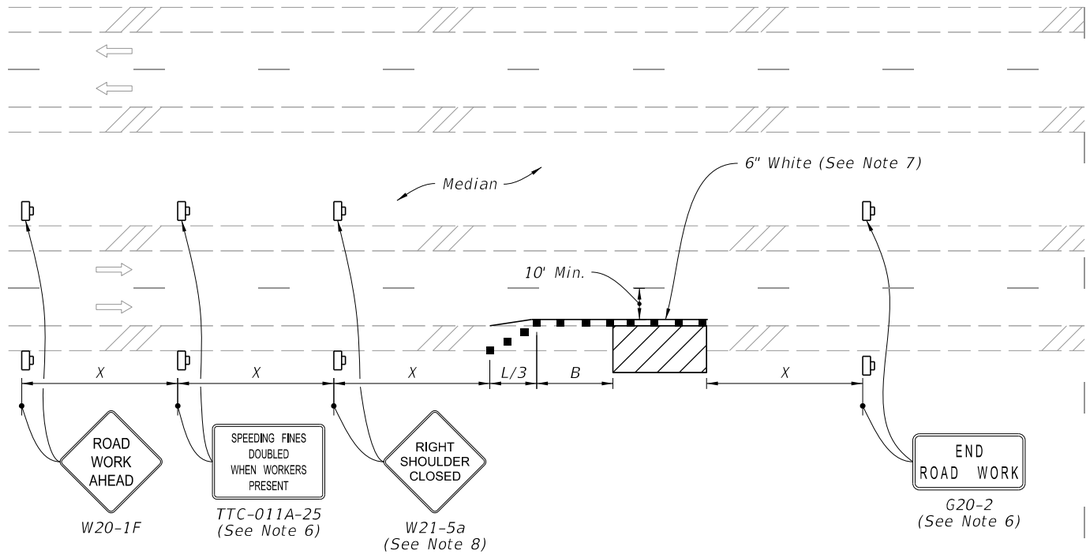
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY WITH WORK ZONE SPEED OF 45 MPH OR LESS



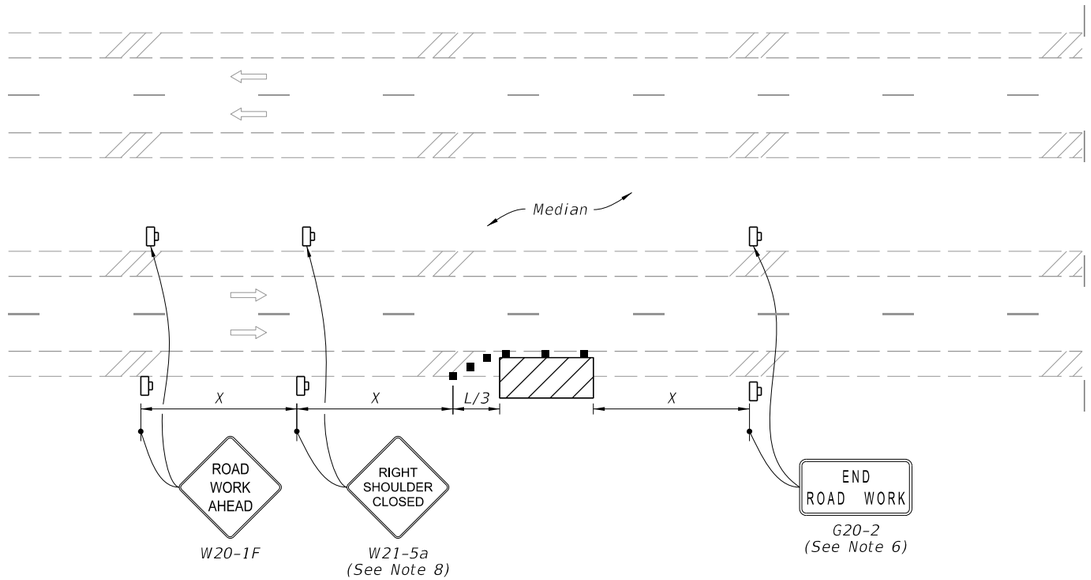
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

10/14/2025 9:34:11 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/25			FY 2026-27 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY WITH WORK ZONE SPEED OF 45 MPH OR LESS



MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

SYMBOLS:

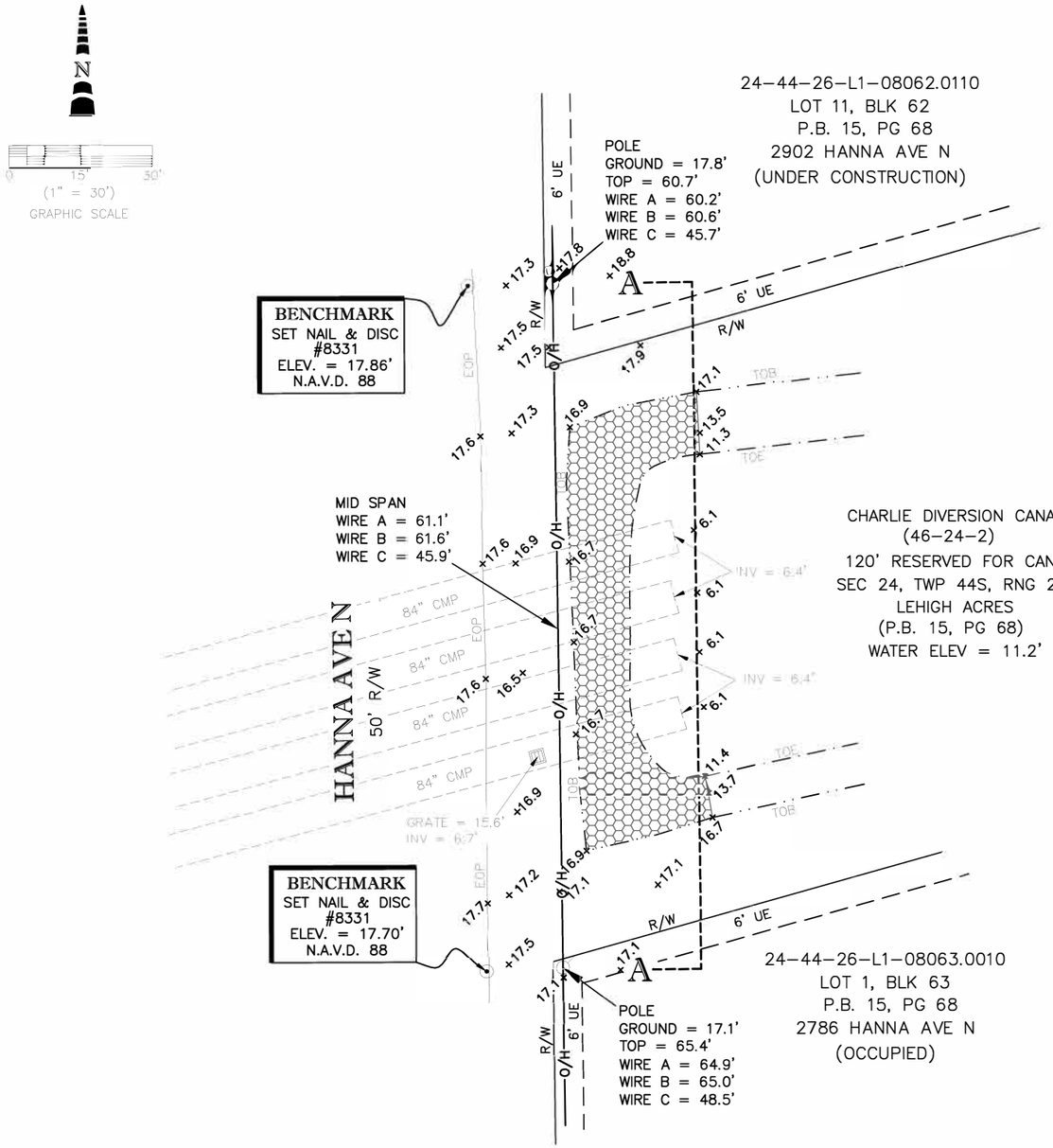
- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

10/14/2025 9:34:21 AM

LAST REVISION	REVISION	DESCRIPTION:	FY 2026-27 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX	SHEET
11/01/25					102-602	2 of 2

ASBUILT SURVEY

OF A PARCEL OF LAND LYING IN SECTION 24, TOWNSHIP 44 SOUTH, RANGE 26 EAST, LEHIGH ACRES, LEE COUNTY, FLORIDA



LEGEND:

N&D = NAIL AND DISC
ELEV = ELEVATION
P.B. = PLAT BOOK
PG = PAGE
CONC = CONCRETE
UE = UTILITY EASEMENT
CMP = CORRUGATED METAL PIPE
EOP = EDGE OF PAVEMENT
R/W = RIGHT OF WAY
TOB = TOP OF BANK
TOE = TOE OF SLOPE
INV = INVERT
N.A.V.D. 88 = NORTH AMERICAN VERTICAL DATUM 1988
= WOOD UTILITY POLE
+28.7' = SPOT ELEVATION
= CATCH BASIN
= TELEPHONE SERVICE BOX
= CONCRETE PIP-RAP/SPILLWAY

NOTES:

SURVEY BASED ON THE PLAT OF LEHIGH ACRES, SECTION 24, TWP 44S, RNG 26E, LEHIGH ACRES AS RECORDED IN PLAT BOOK 15, PAGE 68 OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA AND EXISTING MONUMENTATION.

THIS PLAT PREPARED AS AN ASBUILT SURVEY FOR THE PURPOSE OF LOCATING THE FEATURES WITHIN AND ADJACENT TO THE CANAL CROSSING EAST OF HANNA AVE N BETWEEN 28TH ST W AND 30TH ST W, LEHIGH ACRES, FL

THE ELEVATIONS SHOWN HEREON ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) IN FEET AND DECIMALS THEREOF AND BASED UPON CONTINUOUSLY OPERATING FLORIDA PERMANENT REFERENCE NETWORK (FPRN) STATIONS MAINTAINED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.

PARCEL LIES WITHIN ZONE "X", HAVING NO BASE FLOOD ELEVATION, PER INSURANCE RATE MAP 125124 0318F, HAVING AN EFFECTIVE DATE OF 8/28/2008.

COORDINATES AND BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83, 2011 ADJUSTMENT – EPOCH 2010.00)

THE F.E.M.A. FLOOD ZONE INFORMATION INDICATED HEREON IS BASED ON MAPS SUPPLIED BY THE FEDERAL GOVERNMENT. THIS FLOOD INFORMATION MUST BE VERIFIED WITH ALL PERMITTING REGULATORY ENTITIES PRIOR TO COMMENCING ANY WORK OR APPLICATION DEPENDENT ON SAID FLOOD INFORMATION.

UNDERGROUND IMPROVEMENTS, UTILITIES AND/OR FOUNDATIONS WERE NOT LOCATED UNLESS OTHERWISE NOTED.

WETLANDS, IF ANY, WERE NOT LOCATED.

SUBJECT TO EASEMENTS, RESTRICTIONS, RESERVATIONS AND RIGHTS-OF-WAY (RECORDED AND UNRECORDED, WRITTEN AND UNWRITTEN).

DATE OF LAST FIELD WORK: 3-31-2026.

BY: _____
NOAH JOHN MEDEIROS
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS#7345

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

THIS TOPOGRAPHIC SURVEY MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, PURSUANT TO SECTION 472.027, FLORIDA STATUES AND CHAPTER 5J-17.05, FLORIDA ADMINISTRATIVE CODE.

THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF AN ABSTRACT OF TITLE AND ALL MATTERS OF TITLE SHOULD BE REFERRED TO AN ATTORNEY AT LAW.

NOTE:

SEE SHEET 2 OF 2 FOR PROFILE AND LOCATION MAP

TOP 2 WIRES ARE HIGH VOLTAGE.

LOW WIRE IS COMMUNICATION.

THIS SURVEY HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY NOAH JOHN MEDEIROS USING A DIGITAL SIGNATURE AND DATE. PRINT COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

HANNA AVE NORTH, LEHIGH ACRES

TITLE: ASBUILT SURVEY

KEYSTONE
A CLS COMPANY
www.keystoneconsultants.net

10970 S. CLEVELAND AVE.
SUITE #605
FORT MYERS, FLORIDA 33907
PHONE: (239) 275-8575
FAX: (239) 275-8457

LB #8331

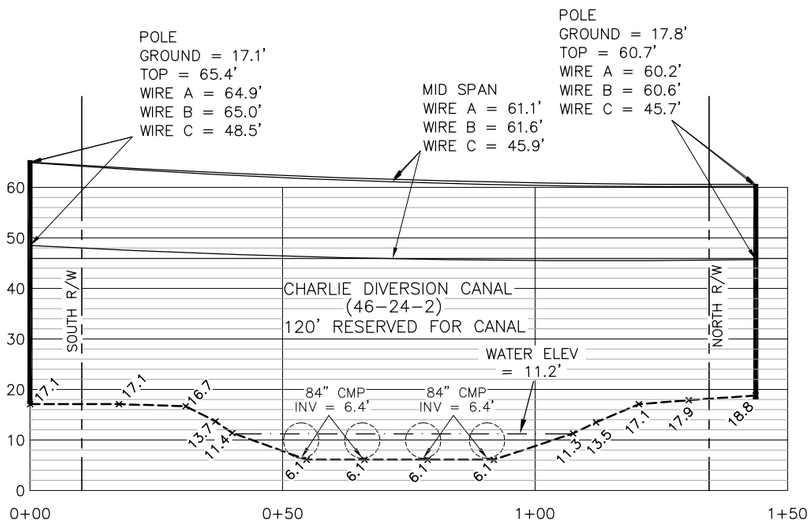
FILE NAME:	FIELD BOOK/PAGE:	PROJECT NO.:	SHEET:
15772SR.DWG	SEE FILE	15772	1 OF 2

SURVEY DATE:	DRAWN BY:	SCALE:	CHECKED BY:	FILE NO. (S-T-R)
4/03/26	BUD	1"= 30'	NJM	24-44-26

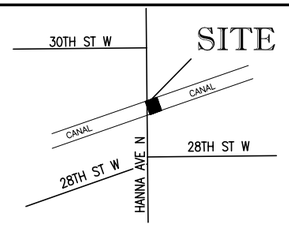
ASBUILT SURVEY

OF A PARCEL OF LAND LYING IN
SECTION 24, TOWNSHIP 44 SOUTH, RANGE 26 EAST,
LEHIGH ACRES, LEE COUNTY, FLORIDA

0 15' 30'
(1" = 30')
GRAPHIC SCALE



VICINITY SKETCH
(NOT TO SCALE)



NOTE:
SEE SHEET 1 OF 2 FOR
PLAN VIEW SHEET, NOTES AND LEGEND

TOP 2 WIRES ARE HIGH VOLTAGE.

LOW WIRE IS COMMUNICATION.

HANNA AVE NORTH, LEHIGH ACRES

TITLE: ASBUILT SURVEY

KEYSTONE
A CLS COMPANY
www.keystoneconsultants.net

10970 S. CLEVELAND AVE.
SUITE #605
FORT MYERS, FLORIDA 33907
PHONE: (239) 275-8575
FAX: (239) 275-8457

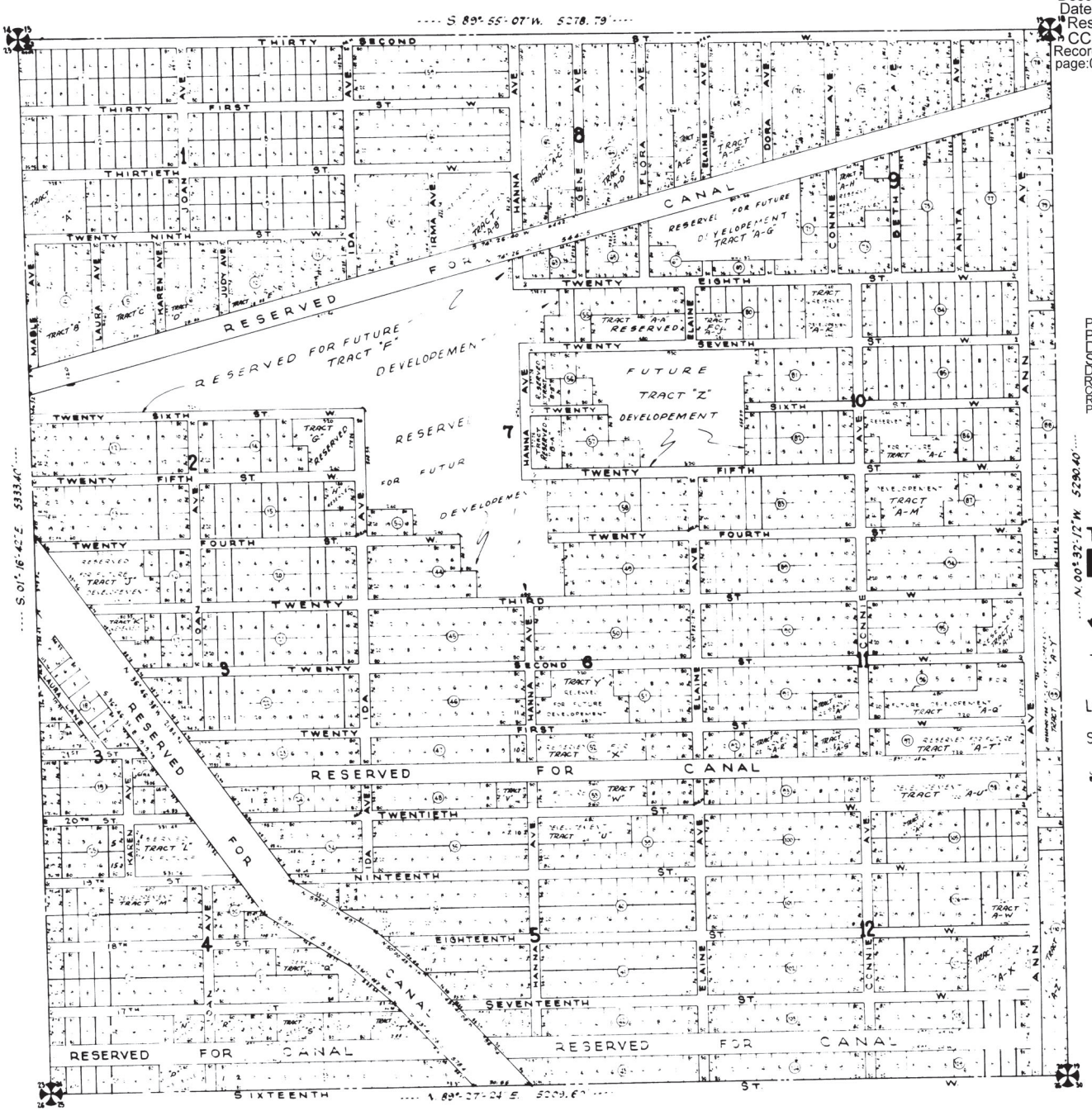
LB #8331

FILE NAME:	FIELD BOOK/PAGE:	PROJECT NO.:	SHEET:
15772SR.DWG	SEE FILE	15772	2 OF 2

SURVEY DATE:	DRAWN BY:	SCALE:	CHECKED BY:	FILE NO. (S-T-R)
4/03/26	BUD	1"= 30'	NJM	24-44-26

Petition to Vacate
Petition No:2001-00001
Description:12ft wide PUE; See CCMB
Date of Approval:03/13/01
Resolution No:01/03/21
CCMB:2001R Page:168
Recorded on:3/23/01 OR Book:3381
page:0782-0785

Petition to Vacate
Petition No:94-36
Description:12ft utility easement
See CCMB
Date of Approval: 03/15/95
Resolution No:95-03-47
CCMB:1995R Page:191
Recorded on:3/23/95 OR Book:2585
Page:2443-2447



PLAT OF
SECTION 24
TOWNSHIP 44 SOUTH · RANGE 26 EAST
[redacted]
A SUBDIVISION OF
"LEHIGH ACRES"
LEE COUNTY, FLORIDA
LEE COUNTY LAND & TITLE CO. DEVELOPERS

SCALE: [redacted] AUGUST, 1958

UNIT BOUNDARY

~ SURVEYORS CERTIFICATE ~

I the undersigned hereby certify that the plat as shown is a correct representation of the land platted and that permanent reference monuments have been placed as shown hereon.

R. L. Gamble
Florida Registered Land Surveyor No 1198

NOTE:
All lot corners, Easement corners, front and side interior [illegible] are 5/8" x 24" Steel rods
Section corners and N's are 6" x 6" x 36" concrete

NOTE:
DIMENSIONS, BEARINGS, LOT AND LAND LINES ON DRAWING OF LATEST DATE SHALL GOVERN.

PLAT OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

LEE COUNTY LAND AND TITLE COMPANY

DEVELOPERS

ACKNOWLEDGEMENTS

KNOW ALL MEN BY THESE PRESENTS, THAT LEE COUNTY LAND AND TITLE COMPANY, A CORPORATION UNDER THE LAWS OF FLORIDA, BEING THE OWNER OF THE LAND DESCRIBED IN THE CAPTION HEREON HAS CAUSED THIS PLAT OF LEHIGH ACRES TO BE MADE AND DO HEREBY DEDICATE TO THE PERPETUAL USE OF THE PUBLIC STREETS, ROADS, DRIVES AND/OR LANES SHOWN HEREON AND ALL CANAL RIGHT OF WAYS SHALL BE DEDICATED TO THE EAST COUNTY WATER CONTROL DISTRICT.

IN WITNESS WHEREOF GERALD H. GOULD AND EDWARD SHAPIRO, RESPECTIVELY PRESIDENT AND SECRETARY OF LEE COUNTY LAND AND TITLE COMPANY, BY AND WITH AUTHORITY OF IT'S BOARD OF DIRECTORS HAVE EXECUTED THESE PRESENTS FOR AND ON BEHALF OF SAID CORPORATION AND CAUSED IT'S CORPORATE SEAL TO BE AFFIXED THIS 10th DAY OF April A.D. 1961

LEE COUNTY LAND AND TITLE CO.

BY Gerald H. Gould
President

ATTEST Edward Shapiro
Secretary

STATE OF FLORIDA
COUNTY OF LEE

I HEREBY CERTIFY THAT ON THIS DAY, BEFORE ME AN OFFICER DULY AUTHORIZED TO TAKE ACKNOWLEDGEMENTS, PERSONALLY APPEARED GERALD H. GOULD AND EDWARD SHAPIRO, RESPECTIVELY PRESIDENT AND SECRETARY OF LEE COUNTY LAND AND TITLE COMPANY, TO ME KNOWN TO BE THE PERSONS DESCRIBED IN AND WHO EXECUTED THE FOREGOING DEDICATION AS PRESIDENT AND SECRETARY RESPECTIVELY OF LEE COUNTY LAND AND TITLE COMPANY FOR THE PURPOSES THEREIN SET FORTH.

WITNESS MY HAND AND OFFICIAL SEAL AT FORT MYERS, SAID COUNTY AND STATE THIS 10th DAY OF April A.D 1961

Susan Wheeler
NOTARY PUBLIC STATE OF FLORIDA AT LARGE
My Commission Expires July 19, 1964

APPROVALS

THIS PLAT APPROVED THIS 12 DAY OF April A.D. 1961 IN OPEN MEETING OF THE BOARD OF COUNTY COMMISSIONERS OF LEE COUNTY, FLORIDA.

APPROVED Gloyd S. Hunter
Chairman

D. J. Farabee
Clerk

County Attorney

Stacey Bruce
County Road Superintendent

260795

I HEREBY CERTIFY THAT THIS PLAT OF LEHIGH ACRES, HAS BEEN EXAMINED BY ME AND FROM MY EXAMINATION I FIND THAT SAID PLAT COMPLIES IN FORM WITH THE REQUIREMENTS OF SURVEY LAWS OF FLORIDA.

I FURTHER CERTIFY THAT SAID PLAT WAS FILED FOR RECORD AT FORT MYERS THIS 13 DAY OF April A.D. 1961, AND DULY RECORDED IN PLAT BOOK 15 ON PAGES 1-101 OF PUBLIC RECORDS OF LEE COUNTY, FLORIDA.

D. J. Farabee
Clerk Of The Circuit Court In And For Lee County

SURVEYORS CERTIFICATE

I THE UNDERSIGNED CERTIFY THAT THE PLAT AS SHOWN IS A CORRECT REPRESENTATION OF THE LANDS PLATTED.

R. V. Jamme

PLAT OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

LEE COUNTY LAND AND TITLE COMPANY

DEVELOPERS

DESCRIPTION

TOWNSHIP 43 SOUTH, RANGE 27 EAST

The Southeast 1/4 of Section 36

TOWNSHIP 44 SOUTH, RANGE 27 EAST

The South 1/2 and the North 1/2 of the North 1/2 of Section 1; the East 1/2 and the East 1/2 of the Northwest 1/4 and the Southwest 1/4 of the Northwest 1/4 of Section 2; the South 1/2 of Section 7, 8 and 9; all of Sections 11 through 21 inclusively and all of Sections 23 through 28 inclusively; all of Section 29 except that part lying South of the South Right of Way of Able Canal; all of Sections 35 and 36 inclusively; all of Section 32 except the following: Units 1, 2 and 3 of Section 32 as recorded on pages 124, 125 and 126 of Plat Book 9. Units 4, 5, 7, 10, 11 and 18 of Section 32 as recorded on Pages 50 through 55 inclusively of Plat Book 12. Unit 20 of Section 32 as recorded on Pages 86 through 89 inclusively of Plat Book 10. Part of Unit 3 as recorded on Page 23 of Plat Book 12. Addition to Unit 20 as recorded on Pages 36 and 37 of Plat Book 13 all of the Public Records of Lee County, and all of section 33 except the following: Units 4 and 10 of Section 33 as recorded on Page 52 of Plat Book 12. Unit 5 of Section 33 as recorded on Page 29 of Plat Book 12. Bear Lake Subdivision as recorded on Pages 38 and 39 of Plat Book 13. Replat of Lots 1 through 6, Block 4e, Section 33, Township 44 South, Range 27 East as recorded on Page 84 of Plat Book 12 all of the Public Records of Lee County and that part of Section 34 described as Follows; Beginning at the Northwest Corner of Section 34, Township 44 South, Range 27 East go North 89°-12'-26" East, 1919.76 feet; thence South 00° 06'-48" East, 1468.91 feet; thence South 89°-12'-26" West, 1919.76 feet; thence North 00°-06'-48" West, 1468.91 feet to the Point of beginning; and that part of section 34, Twp. 44 S., Rge 27 E., described as follows: commencing at the Southwest corner of Section 34; thence North 00°-06'-48" West along the West line of said Section 1403.40 feet to the Northerly right of way line of Joel Boulevard; thence North 88°-58'-52" East along said Northerly right of way 15.80 feet to the P.C. of a curve; thence Northeasterly on a tangential curve to the left, with a radius of 676.18 feet, a distance of 400.21 feet, to the P.T. of said curve, thence North 55°-05'-58" East, continuing along said Northerly right of way of Joel Boulevard, 1012.50 feet to the Southwesterly right of way of David Avenue, said point also being the actual point of beginning of the tract of land to be described; thence North 34°-54'-02" West along said southwesterly right of way line 1610 feet; thence North 55°-05'-58" East, a distance of 200 feet; thence South 34°-54'-02" East, a distance of 90 feet; thence North 55°-05'-58" East, a distance of 175 feet; thence North 87° 55'-40" East, a distance of 184.45 feet; thence South 34°-54'-02" East, a distance of 185 feet; thence South 55°-05'-58" West, a distance of 280 feet; thence South 34°-54'-02" East, a distance of 375 feet; thence South 55°-05'-58" West, a distance of 200 feet; thence South 34°-54'-02" East, a distance of 860 feet; thence South 55°-05'-58" West, a distance of 50 feet, to the actual Point of Beginning; and all of Section 22 lying West of the West right of way line of Gerald Avenue as shown on the Plat of a Subdivision of Part of Lehigh Acres recorded on Pages 50 through 55 inclusively of Plat Book 12 of the Public Records of Lee County, Florida.

TOWNSHIP 44 SOUTH, RANGE 26 EAST

All of Sections 1, 2, 11, 12, 13, 23, 24, 26, 27, 32, 33, 34, 35, and 36; and the South 1/2 of Sections 29 and 30; and the South 100 feet of the North 1/2 of Section 30; and the East 1/2 of Section 14; the South 1/2, and that part of the North 1/2 of Section 28, lying East of Buckingham Road; all of Block E, Lot 1, Block 38 of Buckingham Park, south section as recorded in Plat Book 9, Page 99 of the Public Records of Lee County, Florida, and all that part of Section 22 lying South and West of the southerly right of way of Homestead Road, except Lots 1 through 7 inclusively, Block 37 of Buckingham Park south section as recorded in Plat Book 9, Page 99 of the Public Records of Lee County, Florida; and that part of Section 31, lying North of the Northerly right of way of State Road 82; and all of Section 25 except Units 3 and 6 and Units 11 and 12 as recorded in Plat Book 13, Pages 21, 22 and 23 of the Public Records of Lee County, Florida.

TOWNSHIP 45 SOUTH, RANGE 26 EAST

All of Sections 1, 2, 3 and 12, all of that part of sections 4, 5, 6, 9, 10, 11, 13 and 14 lying North of the Northerly right of way of State Road 82.

PART IV #26-84

Recommended Action

Engineering Review:

By: _____5/14/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ **Approved ___ Denied ___**

District Manager: _____ **Date**: _____

Comments:

The referenced permit application for Comcast Bore under Charlie Div. Canal (46-24-2) at 2901 Hanna Ave N., in Lehigh Acres, submitted by Comcast Corporation, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: PER #26-85, Comcast Bore under King Canal (47-3-6) at Joel Blvd.

Meeting Date: June 15, 2026

Agenda Item # 2J

[x] **CONSENT** [ ] **ACTION** [ ] **OLD BUSINESS** [ ] **NEW BUSINESS**

Request Initiated By: [ ] **COMMISSIONER** _____ [ ] **ATTORNEY**

[ ] **BOARD** [ ] **MANAGER** [ ] **ENGINEER** [ ] **AUDITOR**

1	**Recommended motion:**	Move to approve PER #26-85, Comcast Bore under King Canal (47-3-6) at Joel Blvd.
2	**What the action accomplishes:**	Allows Comcast to install fiber cables under District canals while ensuring they stay 10-feet below the bottom elevation of each canal.
3	**Fiscal Impact:**	Permit Fee: $3,272.70
4	**Staff comments:**	Approved according to the plans submitted May 11, 2026.

5 Staff review and recommended approval:

[ ] **MANAGER** [ ] **ASSISTANT DISTRICT MGR**

[ ] **ATTORNEY** [ ] **FIELD SUPERINTENDENT**

[ ] **ENGINEER** [ ] **CONTROLLER**

6 Board Action:

[ ] **APPROVED** [ ] **DENIED** [ ] **DEFERRED**

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
PERMIT

THIS PERMIT is granted this 15th day of June, 2026, by Lehigh Acres Municipal Services Improvement District (hereinafter referred to as "DISTRICT"), 601 East County Lane, Lehigh Acres, Florida 33936, to Comcast Cable Communications, 12600 Westlinks Drive, Suite #4, Fort Myers, FL 33913, hereinafter referred to as the "Permittee") as a non-exclusive permit for a directional bore under King Canal (47-3-6), along the west side of Joel Blvd., between Mabry St. & E. 19th St., in Lehigh Acres, FL.

W I T N E S S E T H:

1. In the event the DISTRICT is not the fee title owner of the real property (the "Property") to which this Permit is applicable, the Permittee agrees, prior to commencement, to obtain all necessary consents from the fee title owners of the Property.

2. This Permit does not constitute a waiver of the necessity by the Permittee to obtain such other necessary and appropriate permits required by other governmental bodies or agencies; therefore the Permittee, prior to commencement, is required to obtain any and all other applicable federal, state, and local permits required in connection with Permittee's use of the Property and agrees that at all times it will comply with the requirements of all federal, state and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Property by the Permittee.

3. Permittee understands and agrees that the use of the Property pursuant to this Permit is subordinate to the rights and interests of the DISTRICT and to the extent applicable that of the fee title owner of the Property. Further, Permittee does hereby stipulate that the Permittee is not relying upon any representations whatsoever by the DISTRICT regarding the DISTRICT'S right, title, interest, or ownership as to the Property for which this Permit is applicable.

4. The Permittee, by accepting this permit, specifically agrees to allow authorized District Personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
    a. Having access to and copying any records that must be kept under the conditions of the permit:
    b. Reviewing the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules.

5. The DISTRICT specifically reserves the right to maintain its facilities located over, under or upon the Property; to make improvements; add additional facilities; maintain, construct or alter its roads; maintain any facilities, devices, or improvements on the Property which aid in or are necessary to the DISTRICT'S operation; and the right to enter upon the Property at all times for such purposes. Permittee understands that in the exercise of such rights and interest, the DISTRICT may require Permittee, at no cost to DISTRICT, to relocate, alter, or remove the Permittee's facilities and equipment or other improvements made by Permittee pursuant to this Permit which interfere with or prevent the DISTRICT, in the DISTRICT'S opinion, from properly and faithfully constructing, improving and maintaining its facilities. If the Permittee should fail to relocate, alter, or remove the Permittee's facilities, equipment or other improvements made by the Permittee pursuant to this Permit within a reasonable time period following receipt of notice from the DISTRICT requesting same, then in that event the DISTRICT shall have the right to enter upon the lands and make such relocation, alterations or removal of the Permittee's facilities, equipment/or other improvements at no cost to DISTRICT.

6. Permittee agrees that it will not use the Property in any manner which interferes with the DISTRICT'S

use of the Property or causes a hazardous condition to exist.

7. The DISTRICT assumes no responsibility for the ownership, operation and/or maintenance of the Permittee's facilities as permitted herein.

8. The Permittee agrees to backfill any excavation it makes within the Property and to repair or replace (i) any below-grade authorized facilities and features located therein, including but not limited to: water, sewer, stormwater or irrigation facilities, structures or appurtenances and (ii) as to at or above-grade facilities and features, this requirement shall only be applicable to grasses and sod, sidewalks, and roadway improvements (the term roadway improvements shall include but not be limited to curbing, roadway base, sub grade and asphaltic or concrete surfaces) which are removed or damaged as a direct result of said excavation. Such repair or replacement shall substantially restore these features to their condition as it existed immediately prior to the event precipitating the excavation.

9. All below-grade Permittee installations, including water and sewer lines, whether sub aqueous or not, together with appurtenant facilities, shall be located underground and have a minimum ground cover of thirty inches (30") below original design profile grade, including District waterways and roadways.

10. All Permittee activity related to sub aqueous utility, water and/or sewer lines, including appurtenant facilities, shall be conducted in such fashion that the primary functional purpose of the canal or lake body facility, specifically flood control, within which the activity is taking place is not adversely affected. More specifically, sub aqueous construction shall conform to the criteria given in the Lehigh Acres Municipal Services Improvement District (Lehigh Acres – MSID) Administrative Policy and Procedures.

11. Permittee shall, at no expense to DISTRICT and within a reasonable time following notice, adjust the positions and elevations of its facilities as may be required in connection with future improvements to, or construction of, works of the DISTRICT.

12. Permittee does hereby indemnify and hold harmless the DISTRICT, its Board of Commissioners, officers, personnel, and it's Engineers against any claims, losses, damages (including consequential), expenses, or legal fees that might arise out or result from the implementation of the proposed project by the Permittee or that may be caused by a failure of DISTRICT facilities or property.

13. The Permittee shall be obligated at the time of submission of its Permit application, to provide a detail of any other existing improvements located over, under, upon or through the Property and the Permittee's accompanying plans and specifications shall clearly indicate how the Permittee will comply with required clearances between the requested permitted activity and existing improvements located over, under and upon the Property, including compliance with other permitted users duly adopted and published standards.

14. Permittee shall reimburse the DISTRICT for its legal, engineering and other expenses incurred as a result of the implementation of the proposed project.

15. If Permittee should violate any of the terms or conditions of the Permit and shall not correct or remedy same within ten (10) days of receiving written notice of said violation from the DISTRICT, then in that event, the DISTRICT may, at its option, revoke, cancel and terminate this Permit.

16. This Permit may not be assigned by the Permittee without the prior written approval of the DISTRICT.

17. Unless otherwise adjusted, modified or terminated as set forth hereinabove, including the Conditions attached hereto, this Permit shall continue in full force and effect so long as Permittee complies with the

terms of this Permit.

18. In any litigation, including breach, enforcement or interpretation arising out of this Permit, the prevailing party to this Permit shall be entitled to recover reasonable attorney's fees, costs and expenses related to said action from the non-prevailing party.

19. That attached hereto are Supplemental Conditions to this Permit which are incorporated herein and made a part hereof.

LEHIGH ACRES – MUNICIPAL SERVICES IMPROVEMENT DISTRICT

BY: _____

NAME TYPED: David E. Lindsay

TITLE: District Manager

SUPPLEMENTAL CONDITIONS TO PERMIT NO. 26-85

A. GENERAL CONDITIONS

1. Notification shall be given by the Permittee to the District Engineer, AIM Engineering, at 239-332-4569 forty-eight (48) hours prior to commencement of the permitted activity. The District Engineer shall establish points of construction, if applicable, which will require inspection by the District Engineer prior to construction of the permitted activity. When the Permittee considers the permitted activity complete, the Permittee shall notify the District Engineer and schedule an on-site final inspection which shall be held in the presence of a representative of the Permittee and the District Engineer.

2. The permitted activity shall be implemented, constructed and/or installed in full accordance with the approved plans and specifications within six (6) full calendar years from the date of permit approval. Deviations from the approved plans or specifications shall be coordinated with and approved by the District Engineer prior to implementation of any such deviation.

3. When working in a District road right-of-way, not more than one-half (½) of the road or street shall be closed and traffic shall be controlled so as to provide for the safety and minimum hindrance to the public. All traffic control operations shall conform to the most current issue of the Florida Department of Transportation publication "Manual on Traffic Controls and safe Practices for Street and Highway Construction, Maintenance and Utility Operations."

4. The District Engineer shall be the final authority as to the quality and quantity of the material and works required to satisfy the terms and conditions of this Permit as they relate to District improvements and facilities.

5. Upon completion of the permitted activity and after its final review and acceptance by the District Engineer THE PERMITTEE SHALL DELIVER TO THE DISTRICT OFFICE ONE COMPLETE SET OF THE FINAL "RECORD DRAWINGS." FAILURE TO PROVIDE THE FINAL RECORD DRAWINGS MAY RESULT IN THE REVOCATION, CANCELLATION AND TERMINATION OF THIS PERMIT.

6. The above Conditions shall be continuing obligations of the Permittee and shall be complied with in the event of any subsequent maintenance, repair, replacement or modification of the permitted improvement.

Stipulations:

1). Permit #26-85 is approved according to the plans submitted May 11th, 2026.

2). The proposed directional bore must maintain a minimum clearance of 10 feet below the bottom elevation of the canal for the entire 168.18' within the canal right of way.

3). Permanent utility markers, (at least 4' high) with the utility companies contact information clearly labeled on it, must be installed at each canal right of way line over top the proposed line.

4). All guy wires, poles, pull boxes, etc. must be located outside of the canal right of way and not interfere with the District's canal maintenance activities.

5). All canal R/W that is disturbed must be restored with sod and maintained until well established (no seeding will be allowed).

6). Boring contractor is not allowed to pump water out of the LAMSID canals for their boring operations unless they apply for and receive a water use permit from LAMSID.

7). The Permittee will be responsible for any repairs, alterations, or relocation of the utility if required for repairs or maintenance of the canal in the future.

8). Provide LAMSID with a copy of your record drawings and a copy of your bore depth logs showing where your utilities are located within the canal R/W and at what elevation they are located, within 30 days following completion of the improvements.

9). Lee County DOT must review and approve the utility work that is outside of the canal right of way along Joel Blvd.

PART I

DATE SUBMITTED: 04 - 11 - 26

PERMIT #: 26 - 85

APPLICATION FOR A PERMIT

***Note**: The review of permit applications will be conducted per the Lehigh Acres Municipal Services Improvement District's Administrative Policy and Procedures

AGENT NAME: JOANIE GEORGE **PHONE #:** (757)650-4070

PROJECT NAME: JB0002384748-LEE1-FLLAT00V00-PH3-P3

TOTAL ACREAGE: 0.05

Property Address (STRAP associated with this address will be used as the primary STRAP for this project): 1699 JOEL BLVD					
Mailing Address:	**NA**				
City:	**LEHIGH ACRES**	**State:**	**FL**	**Zip:**	**33974**

STRAP NUMBERS (*attach additional sheet if necessary):*

26		44		26		L2		08050		0070									

Brief description of proposed project:

Application for: Comcast proposes to bore 360' across King Canal
Starting west on Joel Blvd going east crossing King Canal to east on Joel Blvd

Is the project proposed to be developed in phases? ☐ Yes X No

Estimated # of Phases:	1	
***Permit Fee:**	$ $2,250.00	**(to be verified by staff)**

* See Administrative Policy and Procedures Sections 4.15 – 4.17 for current Permit Fee Amount.

RECEIVED
MAY 11 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

PART II

OWNER/APPLICANT/ DEVELOPER INFORMATION

A.

Name of Applicant	Comcast Cable Communications - Marc Louis						
Mailing Address:	Street:	12600 Westlinks Dr #4					
City:	Ft Myers	State:	FL			Zip:	33913
Phone No.	Area Code:	239	Number:	986-7043		Ext.	
Fax No.	Area Code:		Number:	-			
E-mail Address:	Marc_louis@cable.comcast.com						

B. Relationship of applicant to property*:

☐ Owner* ☐ Trustee* ☐ Option holder* ☐ Lessee*

☐ Contract Purchaser* X Other (indicate)* UTILITY

C.

Name of Developer:							
Mailing Address:	Street:						
City:		State:				Zip:	
Phone No.	Area Code:	( )	Number:	-		Ext.	
Fax No.	Area Code:	( )	Number:	-			
E-mail Address:							

D.

Name of Authorized Agent(s):	Joanie George						
Mailing Address:	Street:	13277 NE 235th Ct					
City:	Raiford	State:	FL			Zip:	32083
Phone No.	Area Code:	(757)	Number:	650-4070		Ext.	
Fax No.	Area Code:	( )	Number:	-			
E-mail Address:							

E.

Name of Property Owner:							
Mailing Address:	Street:						
City:		State:				Zip:	
Phone No.	Area Code:	( )	Number:	-		Ext.	
Fax No.	Area Code:	( )	Number:	-			
E-mail Address:							

*A disclosure of the name of all persons or entities having an ownership interest in the property is required (attached).

PART III

DISCLOSURE OF OWNERSHIP INTEREST FORM FORM:

PRIMARY STRAP NUMBER: | | | - | | | - | | | - | | | - | | | | | - | | | | |

1. If the property is owned in the fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest.

Name and Address	Percentage of Ownership

2. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each.

Name, Address, Office	Percentage of Stock

3. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with percentages of interest.

Name and Address	Percentage of Interest

4. If the property is in the name of a **GENERAL PARTNERSHIP OR LIMITED PARTNERSHIP**, list the names of general and limited partners.

Name and Address	Percentage of Interest

5. If there is a **CONTACT FOR PURCHASE**, whether contingent on this application Or not, and whether a Corporation, Trustee, or Partnership, list the names of the contract purchasers below, including the officers, stockholders, beneficiaries, or partners.

Name and Address	Percentage of Interest

Date of Contract (mm/dd/yy): / /

6. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address	Percentage of Interest

For any changes of ownership of changes in contracts for purchase subsequent to the date of the application, but prior to the date of final certificate for compliance, a supplemental disclosure of interest must be filed.

The above is a full disclosure of all parties of interest in this application, to the best of my knowledge and belief.

J. George
SIGNATURE OF APPLICANT

Joanie George
PRINTED OR TYPED NAME OF APPLICANT

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 6 day of May (m), 2022 (y), by J George who is personally know to me or has produced _____ as identification.

Notary Public State of Florida
Ashley Woods
My Commission HH 337625
Expires 12/1/2026

SIGNATURE OF NOTARY PUBLIC

Ashley Woods
PRINTED NAME OF NOTARY PUBLIC

PART IV

EXPLANATION

All Permit Application sections must be completed and submitted.

Permit Application fees and submittal items (see Part VI) must be submitted with the application.

Any and all work involving the lands and/or facilities of the District shall not commence without a Board approved permit.

All set policies, procedures, technical requirements, and fee schedules can be found and reviewed in the 'Administrative Policy and Procedures Guide'. The Guide is available at the District Office located at 601 East County Lane, Lehigh Acres, FL or online at la-msid.com/.

PART V

PROFESSIONAL CONSULTANT FORM

ATTORNEY

Name:							
Mailing Address:							
City:		**State:**			**Zip:**		
Business No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Other Contact:							

ENGINEER

Name:							
Mailing Address:							
City:		**State:**			**Zip:**		
Business No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Other Contact:							

OTHER REPRESENTATIVE/PROFESSIONAL

Name:							
Mailing Address:							
City:		**State:**			**Zip:**		
Business No.	**Area Code:**	( )	**Number:**	-	**Ext.**		
Other Contact:							

PART VI

SUBMITTALS

NO. OF COPIES		SUBMITTAL DOCUMENT
SUB'D	REQ'D	
		ITEMS REQUIRED FOR INITIAL SUBMITTAL
2	2	**Construction/Development Plans** signed and sealed by a Licensed Florida Professional Engineer including: 1. Location map showing the location of the proposed project in relation to adjacent streets and LA-MSID facilities. 2. Details of proposed works that fully communicate the work and/or use desired (i.e. Existing Conditions Survey, Proposed Site Plan, Paving Grading & Drainage Plan, Cross Sections, Element Details, and Erosion Control Plan sheets). 3. Sufficient survey data to determine elevations, property and ROW lines, limits of existing and proposed conditions, and notation of utilized vertical datum (NAVD/NGVD).
N/A	2	**Stormwater Drainage Calculations** signed and sealed by a Licensed Florida Professional Engineer including, but not limited to, computer stormwater routing modeling data (ICPR4, Cascade, etc.) to verify compliance with the Design Criteria (input summary data below): **Water Quality Volume (Required):** _____(ACRE-FT) **Water Quality Volume (Provided):** _____(ACRE-FT) **Control Elevation:** _____(FT-NGVD) **Minimum Road/Parking Elevation:** _____(FT-NGVD) *(above the 10-year, 1-day design storm peak stage elevation)* **Minimum Perimeter Berm Elevation:** _____(FT-NGVD) *(above the 25-year, 3-day design storm peak stage elevation)* **Minimum Finished Floor Elevation:** _____(FT-NGVD) *(above the 100-year, 3-day design storm peak stage elevation and previously experienced high-water levels external to project)*
2	2	**Flash Drive / CD** containing plans in both AutoCAD (.dwg file drawn in "State Plane Coordinates") and PDF formats.
2	2	**Permit Application** (PARTS I & II)
2	2	**Disclosure of Owner Form (signed and notarized)** (PART III)
2	2	**Professional Consultant Form & Submittals** (PARTS V & VI)
N/A	2	**Copy of Approved FDEP Notice of Intent (NOI)** for all sites one (1) acre and greater in size.
N/A	2	**Copy of approved SWFMD permit,** for all sites required to get a permit, **or FDEP "10/2 Self-Certification"** approval.
1	1	**Check for appropriate Permit Fees** made out to LA-MSID.

RECEIVED
MAY 11 2026
LEHIGH ACRES
MUNICIPAL SERVICES
IMPROVEMENT DISTRICT

TrueNet Communications Corp

061052

LEHIGH ACRES MUNICIPAL SERVICE - IMPROVEMENT DISTRICT

DATE	INVOICE NO.	DESCRIPTION	INVOICE AMOUNT	DEDUCTION	BALANCE
5/5/2026	05042026 A	JB0002384748 - FLLAT00V00 PH3 PERMIT 3	2,250.00		2,250.00

CHECK DATE		CHECK NUMBER		TOTALS			

PLEASE DETACH THIS PORTION AND RETAIN FOR YOUR RECORDS 8321

DOCUMENT IS PRINTED ON CHEMICALLY REACTIVE PAPER - THE BACK OF THIS DOCUMENT INCLUDES A TAMPER EVIDENT CHEMICAL WASH WARNING BOX

061052

TrueNet Communications Corp.
90 FORT WADE RD.
SUITE 230
PONTE VEDRA, FL 32081
(904) 777-9052
APINV@TrueNetCommunications.com

Bank of America
11-35/1210 GL

Pay: **********two thousand two hundred fifty and 00/100

DATE	CHECK NO.	AMOUNT
May 4, 2026	61052	$*****2,250.00

PAY TO THE ORDER OF

LEHIGH ACRES MUNICIPAL SERVICE - IMPROVEMENT DISTRICT
601 EAST COUNTY LANE
LEHIGH ACRES FL 33936

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

HEAT SENSITIVE COLOR FADES WITH HEAT

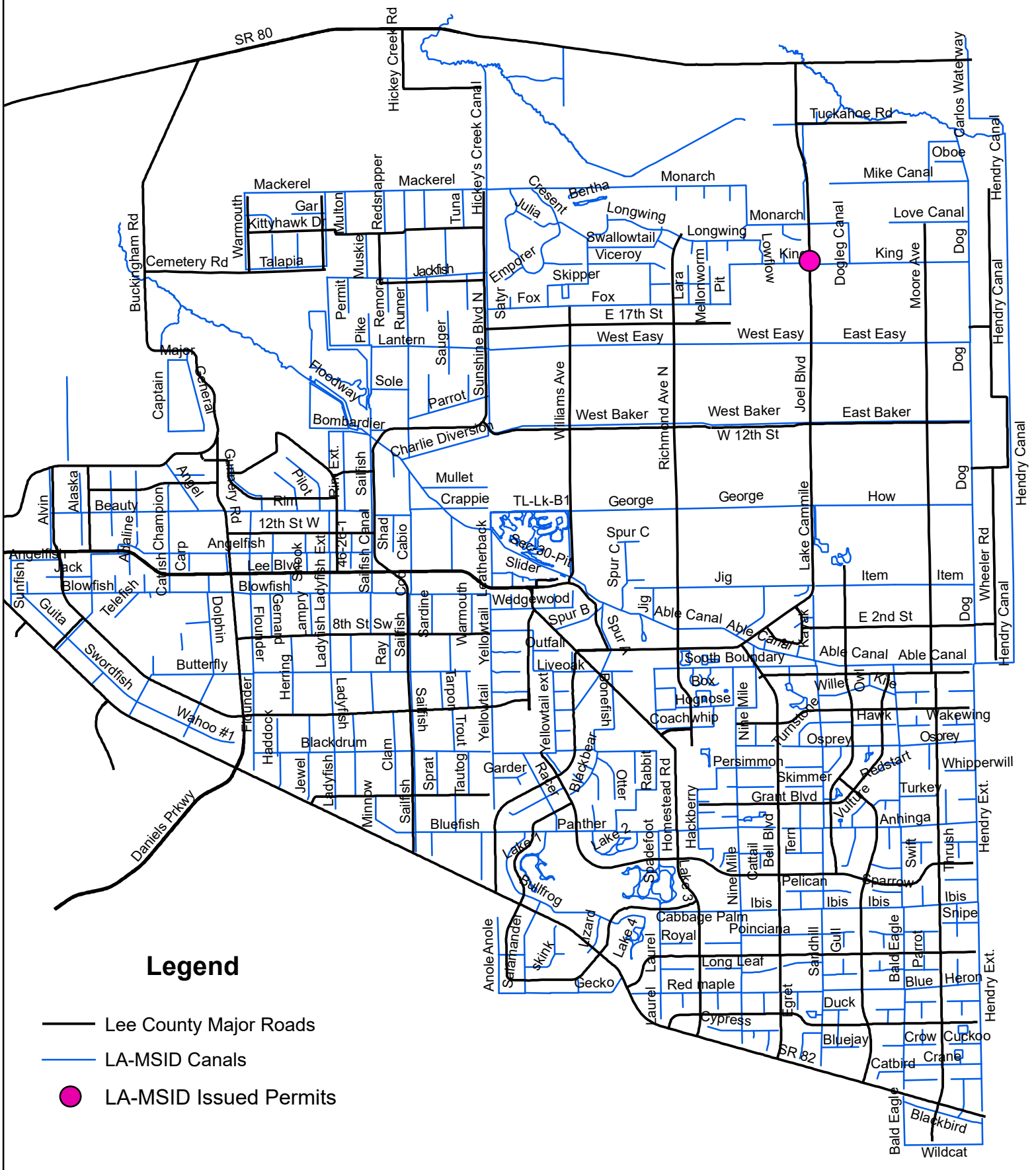
ORIGINAL DOCUMENT HAS RED KEYHOLE ICON THAT DISAPPEARS WITH HEAT

⑈061052⑈ ⑆121000358⑆ 00123592930⑈

COPY

Permit # 26-85

Permit # 2026-85



Legend

- Lee County Major Roads
- LA-MSID Canals
- LA-MSID Issued Permits

1699 JOEL BLVD
LA-MSID PERMIT
NOTES & TYPICALS

BINDING SPACE

LEE CO. AERIAL & U/G NOTES

ALL PROPOSED CONSTRUCTION WILL BE PER DOT SPECIFICATIONS AS WELL AS ALL NESC SAFETY CODES.

ALL PROPOSED CATV WILL BE WITHIN THE DOT RIGHT-OF-WAY.

ALL AERIAL CANAL RIGHT-OF-WAY CROSSINGS MUST BE A MINIUM HEIGHT OF 40' ABOVE THE TOP OF THE CANAL BANK

ALL PROPOSED CANAL RIGHT-OF-WAY BORES MUST BE A MINIMUM HEIGHT OF 10' (120") BELOW THE BOTTOM OF THE CANAL OR PIPE INVERT

ALL PROPOSED UNDERGROUND CATV WILL BE BURIES A MINIMUM OF 66" DEEP, EXCEPT BORES 48" DEEP

ALL PROPOSED UNDERGROUND CATV ROAD BORES WILL USE FDOT APPROVED DIRECTIONAL BORE MACHINE, AS WELL AS FDOT APPROVED CONDUIT

ALL PROPOSED CATV ROAD BORES WILL EXTEND A MINIMUM OF 8' BEYOND THE EDGE OF PAVEMENT

ALL PROPOSED CATV DRIVEWAY BORES WILL EXTEND A MINIMUM OF 4' BEYOND THE EDGE OF PAVEMENT

ALL PROPOSED CATV WILL BE .625" OR .875" DIAMETER, INSULATED COAXIAL CABLE OR 1.0" DIAMETER, INSULATED FIBER OPTIC CABLE, AND WILL BE LASHED TO .250" STEEL STRAND CABLE USING .125" STD. GALV. LASHING WIRE

ALL PROPOSED AERIAL CATV CROSSINGS (BOTH ROADWAYS AND DRIVEWAYS) WILL HAVE MINIMUM MID-SPAN HEIGHT OF 18'-0".

ALL PAEALLEL PROPOSED AERIAL CATV WILL HAVE MINIMUM MID-SPAN HEIGHT OF 16'-6" AS PER NESC SPECIFICATIONS.

LOCATES WILL BE REQUIRED IN ALL PROPOSED UNDERGROUND AREAS AT LEAST 48 HRS. PRIOR TO CONSTRUCTION.

NOTIFICATIONS TO ALL UTILITIES INVOLVED WILL BE MADE PRIOR TO CONSTRUCTION.

GENERAL NOTES

MAINTENANCE OF TRAFFIC TO BE SUPERVISED BY A CERTIFIED PERSON.

TEST RESULTS ARE REQUIRED UPON REQUEST.

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY LANE CLOSURES OR BEGINNING ANY CONSTRUCTION WITHIN THE DOT RIGHT-OF-WAY.

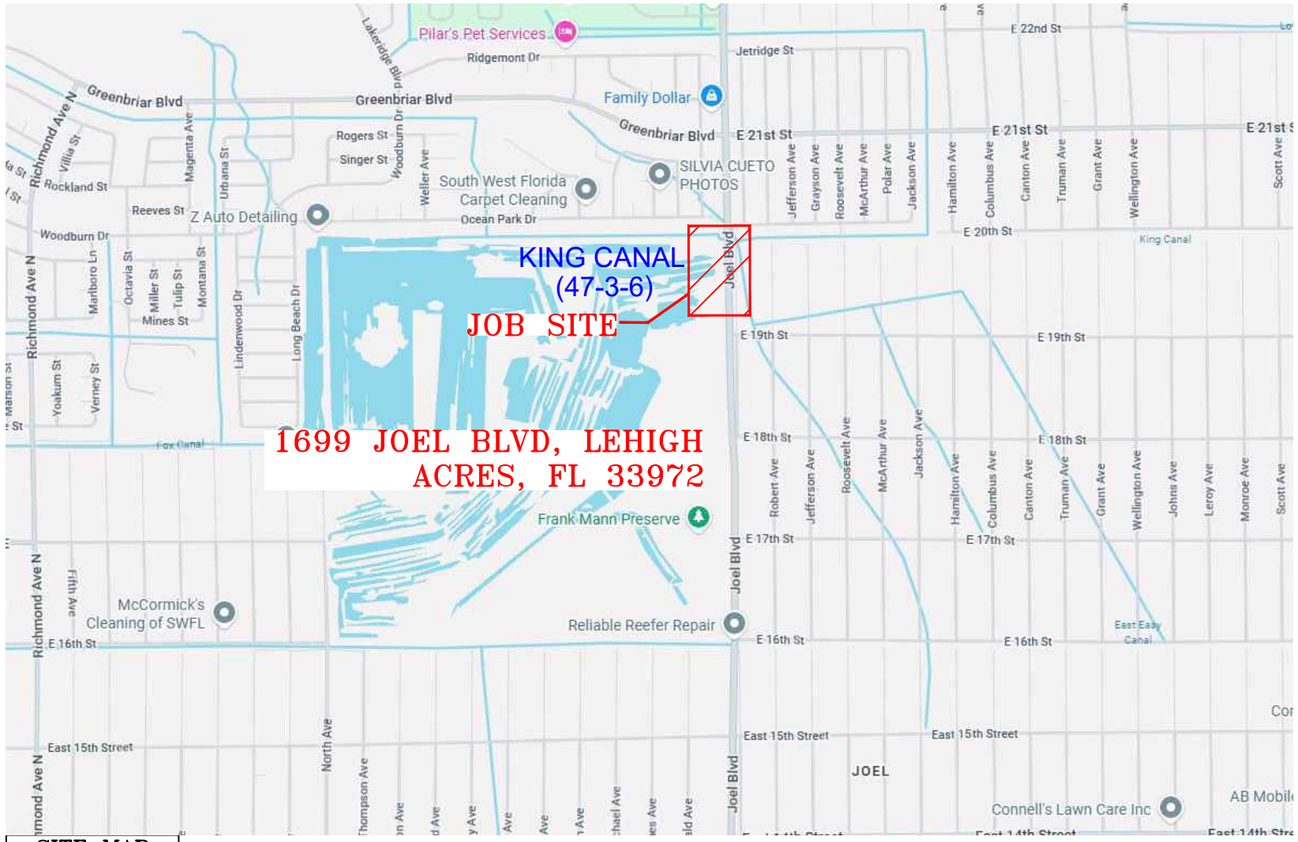
ALL WORK PERFORMED WITHIN THE DOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH DOT DESIGN STANDARDS, SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE UTILITY ACCOMODATION MANUAL, LATEST EDITIONS.

ENGINEER'S CERTIFICATION TOGETHER WITH AS-BUILTS, IF REQUIRED TO BE SUBMITTED WITHIN 30 DAYS OF COMPLETION.

ALL CONCRETE TO BE REMOVED SHALL BE SAW CUT AT THE NEAREST GOOD JOINT. GUTTER SHALL BE SAW CUT BETWEEN ASPHALT AND GUTTER BEFORE REMOVAL.

IT WILL BE THE RESPONSIBILITY OF THE PERMITTEE TO REPAIR ANY DAMAGE TO DOT FACILITIES CAUSED BY THE CONSTRUCTION OF THE PROJECT.

ALL CONCRETE SHALL BE 3,000 PSI. APPROVED DOT MIX DESIGN.

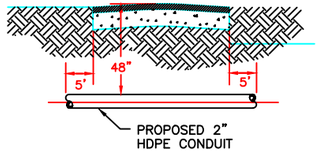


SITE MAP
SCALE: NONE

LEGEND

	BORE
	SWALE/DITCH
	GUARD RAIL
GAS	GAS
PWR	POWER
	U/G CATV
STLT	STREET LIGHT
SD	STORM DRAIN
SWR	SEWER
TELE	TELEPHONE
	TRAFFIC SIGNAL
W	WATER
	MISC U/G UTILITY
	PROPOSED U/G CATV
	PROPOSED AERIAL FIBER
	PROPOSED AERIAL CATV
℄	CENTERLINE
E/P	EDGE OF PAVEMENT
B/C	BACK OF CURB
R/W	RIGHT OF WAY

	POWER POLE
	POWER TRANSFORMER POLE
	JOINT USE TRANSFORMER POLE
	PHONE POLE
	CATV POLE
S	STEEL POLE
C	CONCRETE POLE
	JOINT USE POLE
R	RISER
	ANCHOR
	OVERHEAD GUY
V	CATV FIBER VAULT
V	TRAFFIC SIGNAL VAULT
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL BOX
A	CROSS SECTION REFERENCE
XX'	FTG BTWN REFERENCE POINTS
	REFERNCE POINT
	STORM DRAIN



TYPICAL DRIVEWAY DIRECTIONAL BORE
N.T.S.

PROJECT TOTALS

PROP. BURIED CATV:	360'
PROP. OH CATV:	0'
TOTAL PROP. CATV:	360' (0.07MI.)

MOT NOTES

TRAFFIC CONTROL SHALL COMPLY WITH FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND F.D.O.T. DESIGN STANDARD #NO. 600.

JB0002384748_1699 JOEL BLVD_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

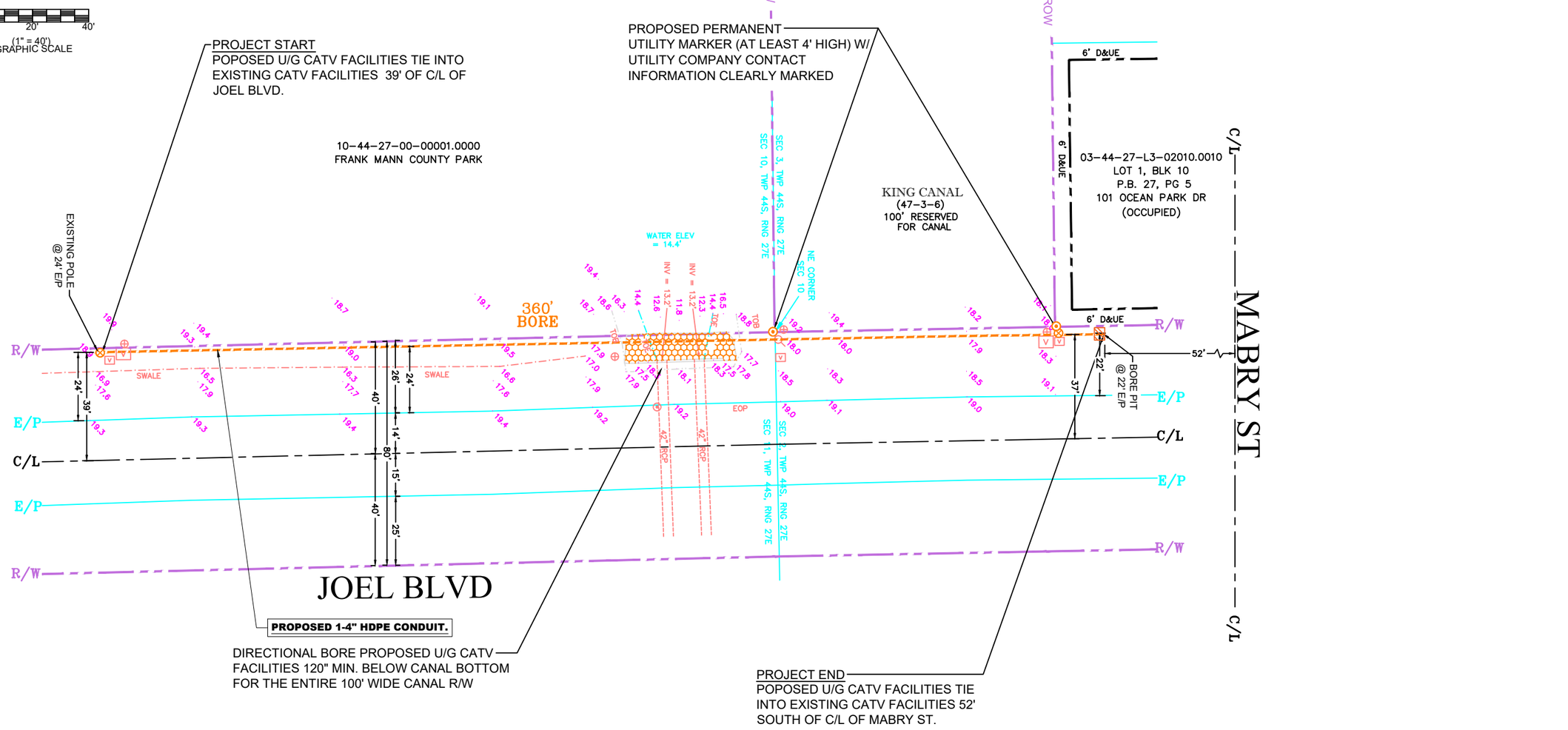
LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
RIGHT-OF-WAY PERMIT

SUBJECT: PROPOSED U/G CATV FACILITIES ON JOEL BLVD.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 1 OF 4
	DATE: 05/01/2026
CIFA: N/A	**MAP:** 26.639791, -81.671102
JB#: JB0002384748	**DRAFTED BY:** A. PERDOMO

1699 JOEL BLVD
LA-MSID PERMIT
PLAN VIEW

0 20' 40'
(1" = 40')
GRAPHIC SCALE

BINDING SPACE



CONSTRUCTION NOTE:
ALL BORE WORK WILL BE HORIZONTAL DIRECTIONAL DRILL, NOT UNGUIDED BORING.

JB0002384748_1699 JOEL BLVD_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
RIGHT-OF-WAY PERMIT

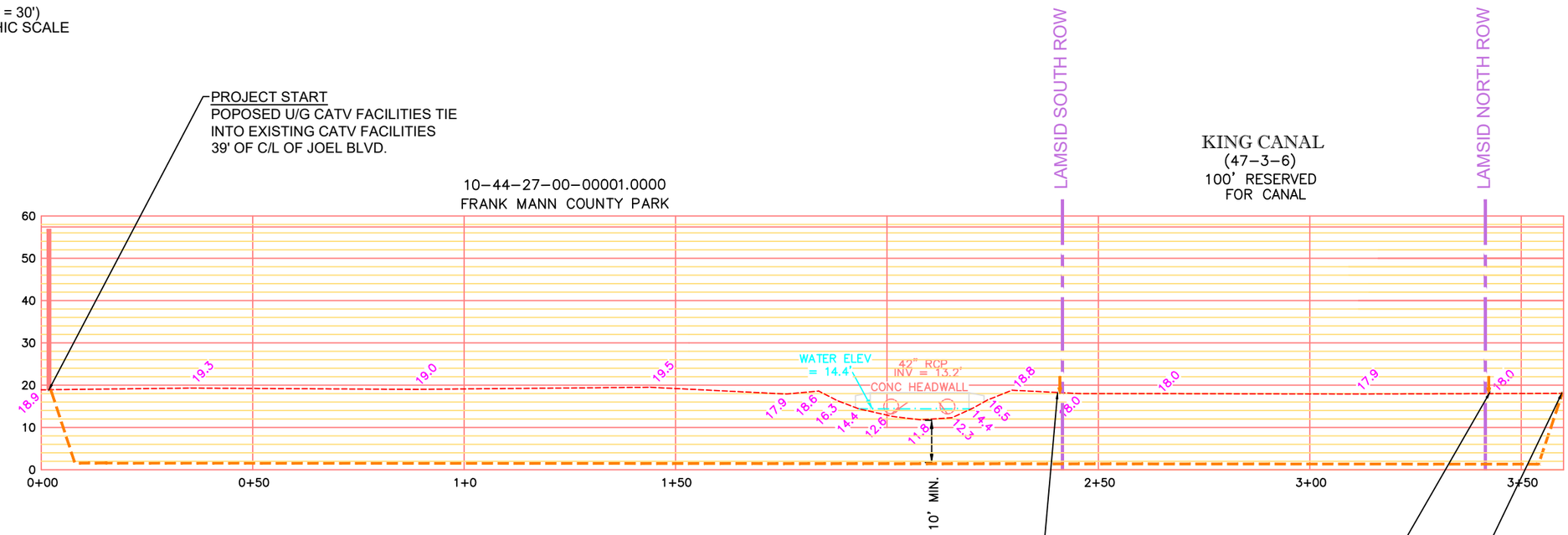
SUBJECT: PROPOSED U/G CATV FACILITIES ON JOEL BLVD.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 2 OF 4
	DATE: 05/01/2026
CIFA: N/A	**MAP:** 26.639791, -81.671102
JB#: JB0002384748	**DRAFTED BY:** A. PERDOMO

BINDING SPACE

1699 JOEL BLVD
LA-MSID PERMIT
CROSS SECTION

0 15' 30'

(1" = 30')
GRAPHIC SCALE



CONSTRUCTION NOTE:
BORE MUST BE 10' BELOW THE LOWEST PIPE INVERT OR THE CANAL BOTTOM, WHICHEVER IS LOWER, FOR THE ENTIRE 100' WIDE CANAL RIGHT OF WAY.

CONSTRUCTION NOTE:
ALL CANAL RIGHT OF WAY THAT IS DISTURBED MUST BE RESTORED WITH SOD AND MAINTAINED UNTIL WELL ESTABLISHED. NO SEEDING WILL BE ALLOWED.

JB0002384748_1699 JOEL BLVD_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

RIGHT-OF-WAY PERMIT

SUBJECT: PROPOSED U/G CATV FACILITIES ON JOEL BLVD.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 3 OF 4
	DATE: 05/01/2026
CIFA: N/A	**MAP:** 26.639791, -81.671102
JB#: JB0002384748	**DRAFTED BY:** A. PERDOMO

BINDING SPACE

1699 JOEL BLVD
LA-MSID PERMIT
SITE PHOTOS

JB0002384748_1699 JOEL BLVD_ LAMSID

COMCAST
PROPRIETARY AND CONFIDENTIAL
12600 WESTLINKS DR., SUITE 4
FORT MYERS, FL 33913

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

RIGHT-OF-WAY PERMIT

SUBJECT: PROPOSED U/G CATV FACILITIES ON JOEL BLVD.	**COUNTY:** LEE
	STATE: FLORIDA
	SHEET NO.: 4 OF 4
	DATE: 05/01/2026
CIFA: N/A	**MAP:** 26.639791, -81.671102
JB#: JB0002384748	**DRAFTED BY:** A. PERDOMO

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (TTC-011A-25) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

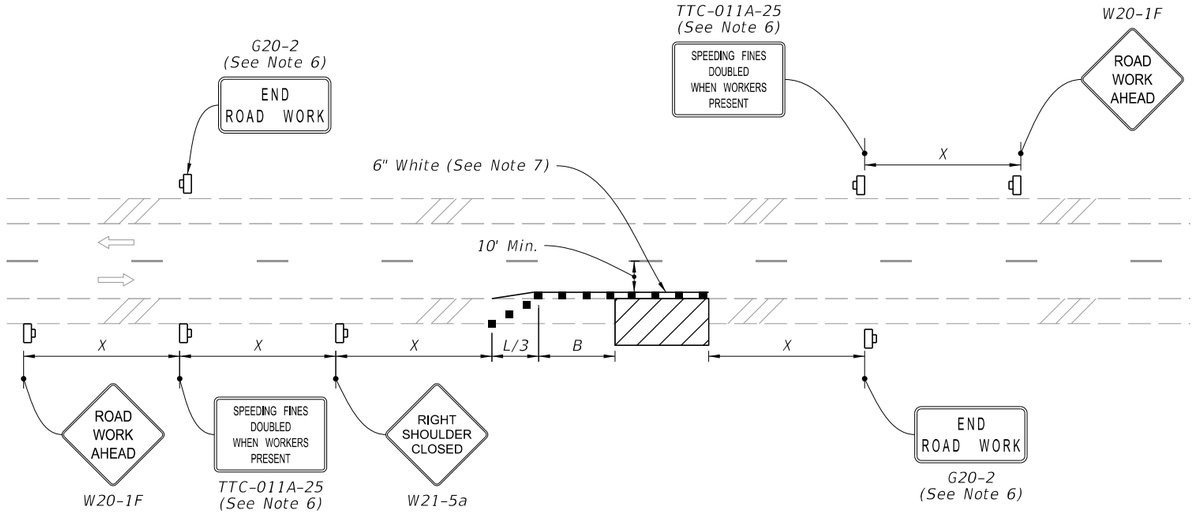
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

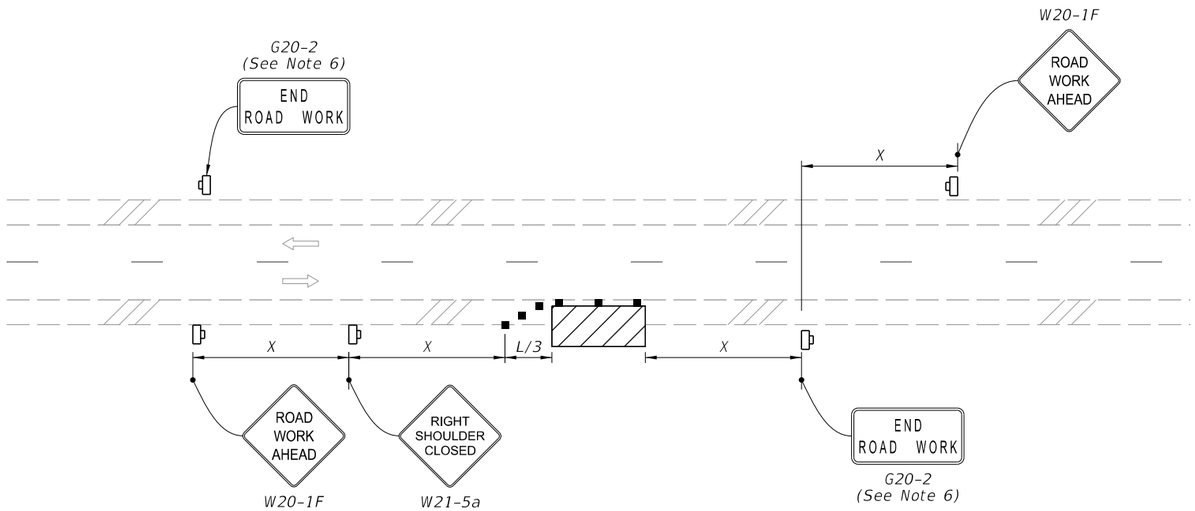
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- ■ Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



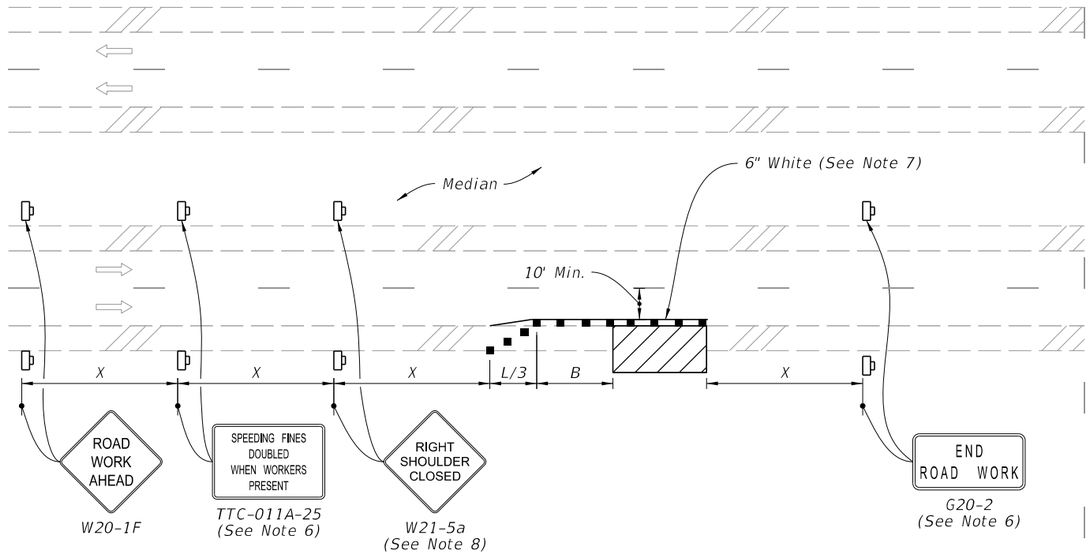
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY WITH WORK ZONE SPEED OF 45 MPH OR LESS



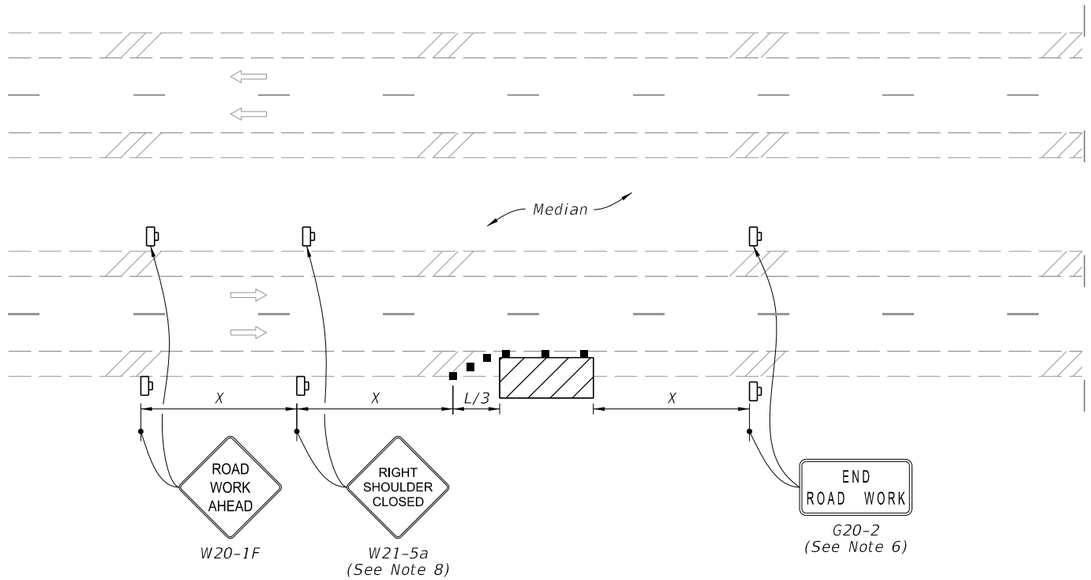
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

10/14/2025 9:34:11 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/25			FY 2026-27 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY WITH WORK ZONE SPEED OF 45 MPH OR LESS



MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

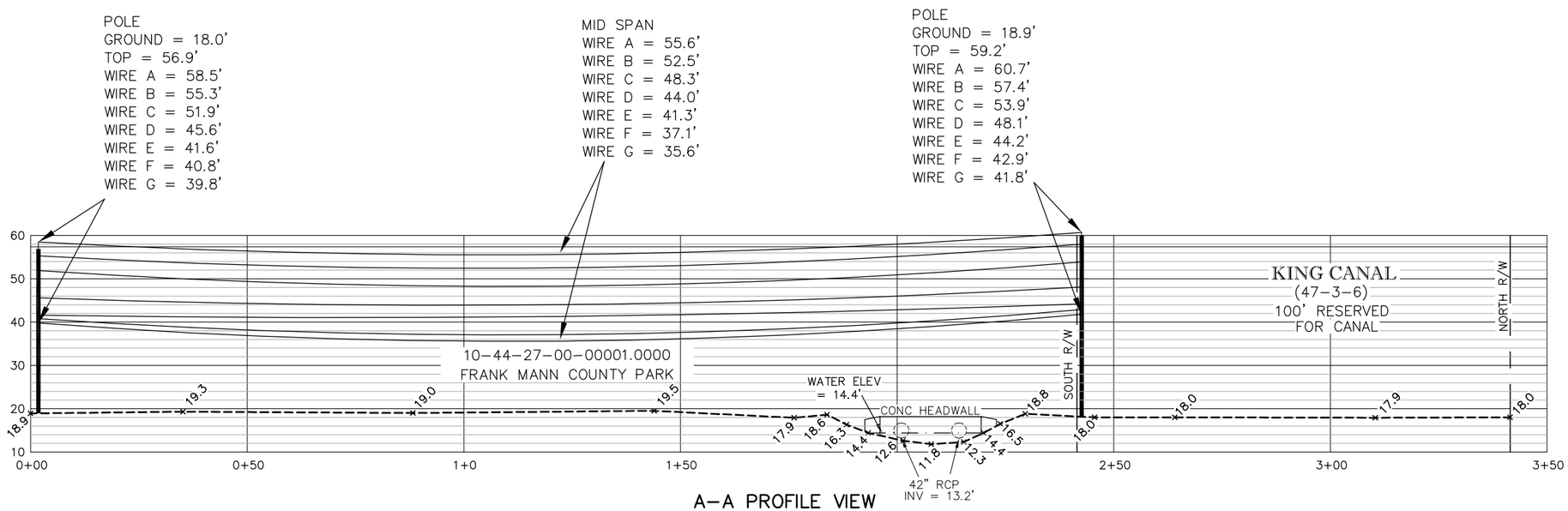
10/14/2025 9:34:21 AM

LAST REVISION	REVISION	DESCRIPTION:	FY 2026-27 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX	SHEET
11/01/25					102-602	2 of 2

ASBUILT SURVEY

OF A PARCEL OF LAND LYING IN
SECTION 10, TOWNSHIP 44 SOUTH, RANGE 27 EAST,
LEHIGH ACRES, LEE COUNTY, FLORIDA

0 15' 30'
(1" = 30')
GRAPHIC SCALE



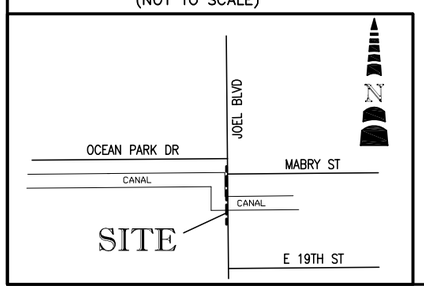
A-A PROFILE VIEW

1" = 30' HORIZONTAL
1" = 30' VERTICAL

BY: _____
NOAH JOHN MEDEIROS
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS#7345

SURVEY CONSISTS OF 2 PAGES
NOT VALID WITHOUT BOTH PAGES

VICINITY SKETCH
(NOT TO SCALE)



NOTES:

SURVEY BASED ON THE PLAT OF GREENBRIAR UNIT 2 AS RECORDED IN PLAT BOOK 27, PAGE 5, OTHER DEEDS AND PROPERTY RECORDS ON FILE IN THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA AND EXISTING MONUMENTATION.

THIS PLAT PREPARED AS AN ASBUILT SURVEY FOR THE PURPOSE OF LOCATING THE FEATURES WITHIN AND ADJACENT TO KING CANAL CROSSING WEST OF JOEL BETWEEN E 19TH ST AND OCEAN PARK DR, LEHIGH ACRES.

THE ELEVATIONS SHOWN HEREON ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) IN FEET AND DECIMALS THEREOF AND BASED UPON CONTINUOUSLY OPERATING FLORIDA PERMANENT REFERENCE NETWORK (FPRN) STATIONS MAINTAINED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.

COORDINATES AND BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83, 2011 ADJUSTMENT – EPOCH 2010.00)

UNDERGROUND IMPROVEMENTS, UTILITIES AND/OR FOUNDATIONS WERE NOT LOCATED UNLESS OTHERWISE NOTED.

WETLANDS, IF ANY, WERE NOT LOCATED.

SUBJECT TO EASEMENTS, RESTRICTIONS, RESERVATIONS AND RIGHTS-OF-WAY (RECORDED AND UNRECORDED, WRITTEN AND UNWRITTEN).

DATE OF LAST FIELD WORK: 3-31-2026.

NOTE:

WIRES A, B, C & D ARE HIGH VOLTAGE
WIRES E, F & G ARE COMMUNICATION WIRES

SEE SHHET 2 OF 2 FOR PLAN VIEW AND LEGEND

THIS SURVEY HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY NOAH JOHN MEDEIROS USING A DIGITAL SIGNATURE AND DATE. PRINT COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

THIS TOPOGRAPHIC SURVEY MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, PURSUANT TO SECTION 472.027, FLORIDA STATUES AND CHAPTER 5J-17.05, FLORIDA ADMINISTRATIVE CODE.

THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF AN ABSTRACT OF TITLE AND ALL MATTERS OF TITLE SHOULD BE REFERRED TO AN ATTORNEY AT LAW.

JOEL BLVD, LEHIGH ACRES

TITLE: ASBUILT SURVEY

KEYSTONE
A CLS COMPANY
www.keystoneconsultants.net

10970 S. CLEVELAND AVE.
SUITE #605
FORT MYERS, FLORIDA 33907
PHONE: (239) 275-8575
FAX: (239) 275-8457

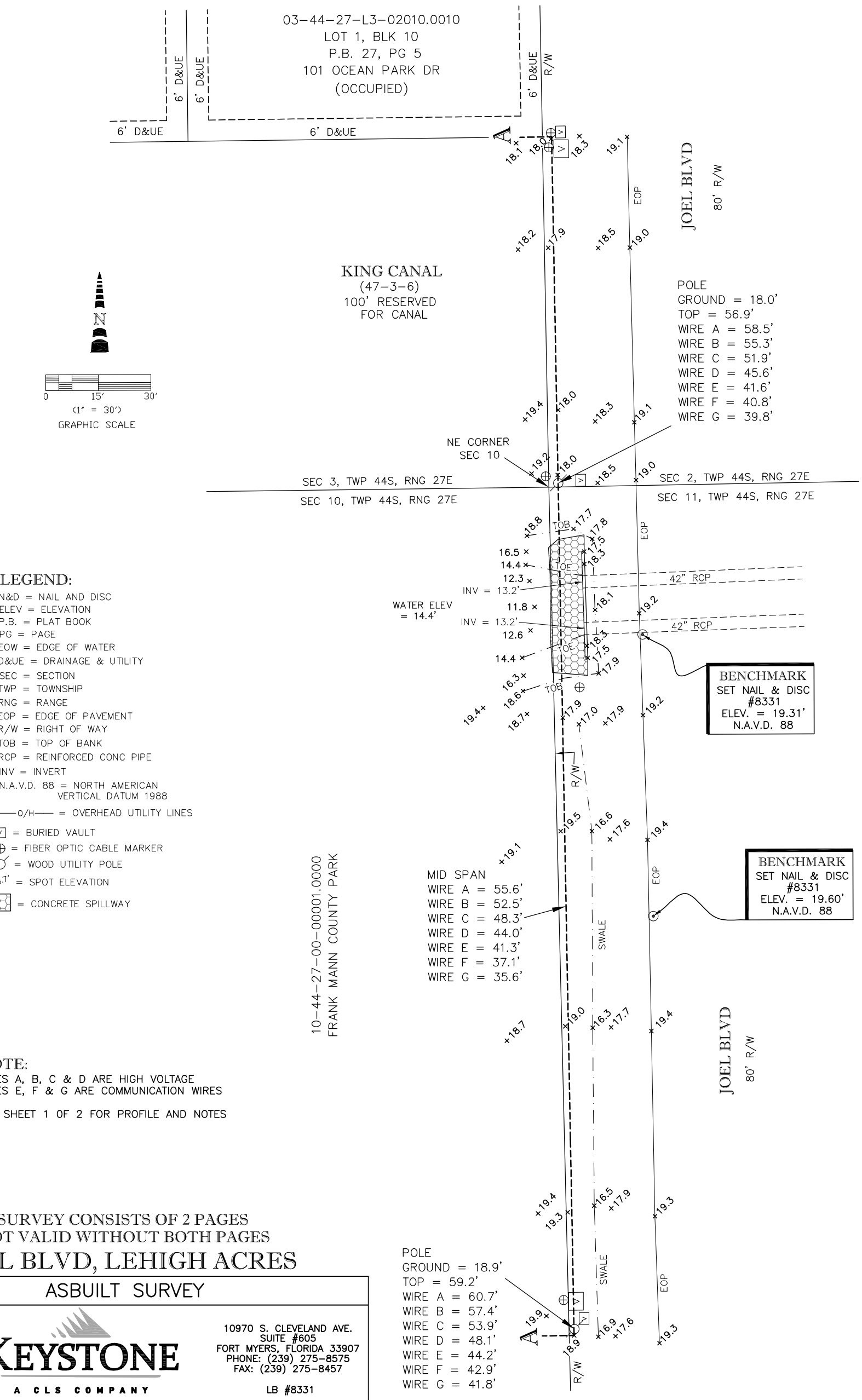
LB #8331

FILE NAME:	FIELD BOOK/PAGE:	PROJECT NO.:	SHEET:
15778SR.DWG	SEE FILE	15778	1 OF 2

SURVEY DATE:	DRAWN BY:	SCALE:	CHECKED BY:	FILE NO. (S-T-R)
4/07/26	BUD	1"= 30'	NJM	10-44-27

ASBUILT SURVEY

OF A PARCEL OF LAND LYING IN
SECTION 10, TOWNSHIP 44 SOUTH, RANGE 27 EAST,
LEHIGH ACRES, LEE COUNTY, FLORIDA



LEGEND:

N&D = NAIL AND DISC
ELEV = ELEVATION
P.B. = PLAT BOOK
PG = PAGE
EOW = EDGE OF WATER
D&UE = DRAINAGE & UTILITY
SEC = SECTION
TWP = TOWNSHIP
RNG = RANGE
EOP = EDGE OF PAVEMENT
R/W = RIGHT OF WAY
TOB = TOP OF BANK
RCP = REINFORCED CONC PIPE
INV = INVERT
N.A.V.D. 88 = NORTH AMERICAN VERTICAL DATUM 1988
——O/H—— = OVERHEAD UTILITY LINES
V = BURIED VAULT
⊕ = FIBER OPTIC CABLE MARKER
= WOOD UTILITY POLE
+28.7' = SPOT ELEVATION
= CONCRETE SPILLWAY

NOTE:

WIRES A, B, C & D ARE HIGH VOLTAGE
WIRES E, F & G ARE COMMUNICATION WIRES

SEE SHEET 1 OF 2 FOR PROFILE AND NOTES

SURVEY CONSISTS OF 2 PAGES
NOT VALID WITHOUT BOTH PAGES

JOEL BLVD, LEHIGH ACRES

TITLE:	ASBUILT SURVEY

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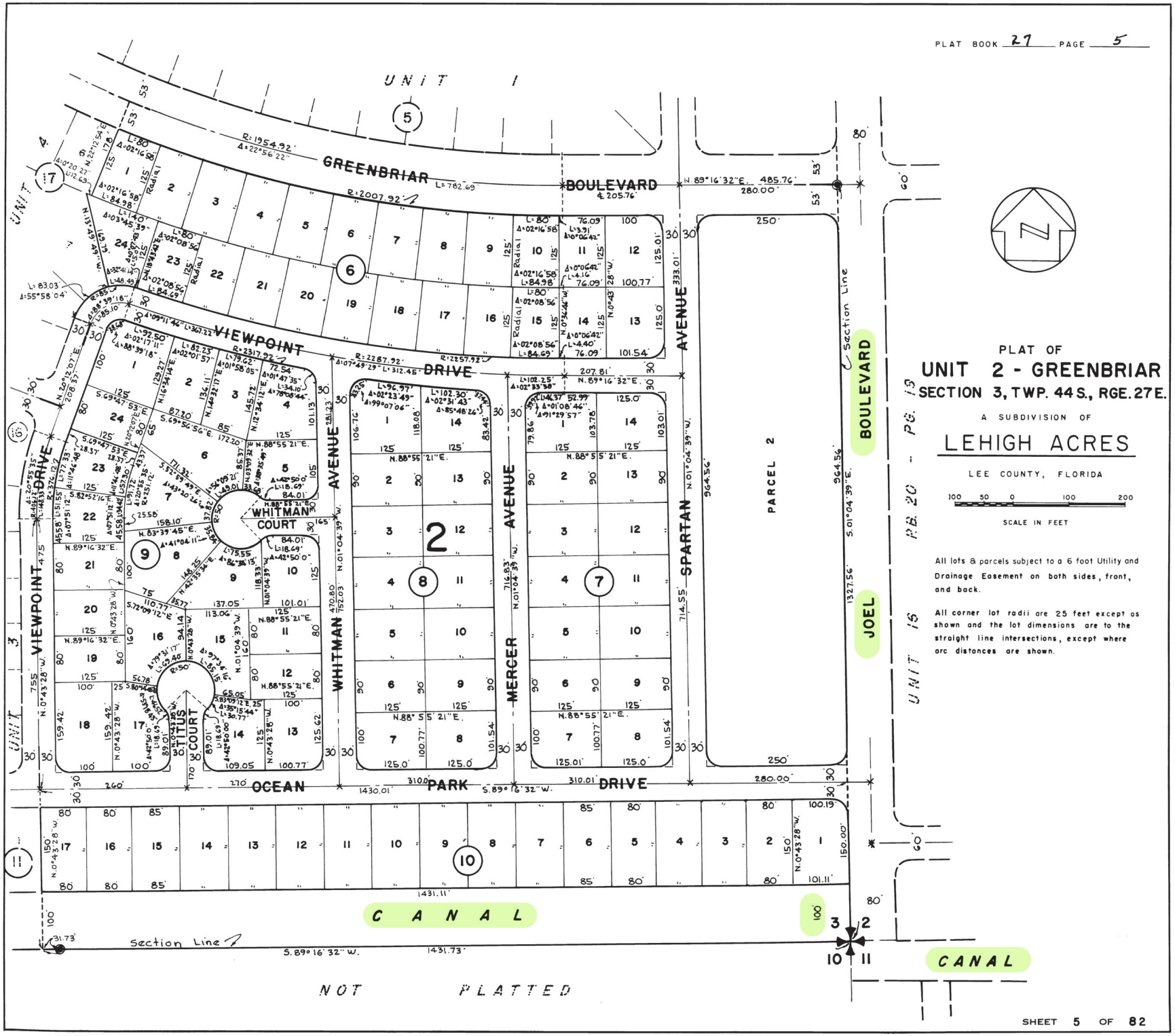
15778SR.DWG	SEE FILE	15778	2 OF 2

SURVEY DATE:	DRAWN BY:	SCALE:	CHECKED BY:	FILE NO. (S-T-R)
4/07/26	BUD	1"= 30'	NJM	10-44-27

PLAT BOOK 27 PAGE 5



PLAT OF

UNIT 2 - GREENBRIAR

SECTION 3, TWP. 44 S., RGE. 27 E.

A SUBDIVISION OF

LEHIGH ACRES

LEE COUNTY, FLORIDA

100 50 0 100 200

SCALE IN FEET

All lots & parcels subject to a 6 foot Utility and Drainage Easement on both sides, front, and back.

All corner lot radii are 25 feet except as shown and the lot dimensions are to the straight line intersections, except where arc distances are shown.

PART IV #26-85

Recommended Action

Engineering Review:

By: _____5/15/2026 **Approved _X_ Denied __**

District Field Review:

By: _____ Approved ___ Denied ___

District Manager: _____ Date: _____

Comments:

The referenced permit application for Comcast Bore under King Canal (47-3-6) at 1699 Joel Blvd., in Lehigh Acres, submitted by Comcast Corporation, has been reviewed and is recommended for approval with the following stipulations:

1. Permanent above-ground cable markers must be placed at the canal right-of-way (R/W) line on each side of the crossing.

2. Any disturbed canal R/W must be restored with sod and maintained until fully established. Seeding will not be permitted.

3. Within 30 days of completing the improvements, provide LA-MSID with a copy of the survey record drawings indicating the location and elevation of utilities within the canal R/W.

4. The permittee will be responsible for any necessary repairs, alterations, or relocation of the utility if required for future maintenance or repairs of the canal.

5. Lee County DOT must review and approve any utility work proposed within the County Road R/W.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: 2027-2031 Capital Improvement Plan

Meeting Date: June 15, 2026

Agenda Item # 3B

☐ **CONSENT** ☒ **ACTION** ☐ **OLD BUSINESS** ☐ **NEW BUSINESS**

Request Initiated By: ☐ **COMMISSIONER** _____ ☐ **ATTORNEY**

☐ **BOARD** ☒ **MANAGER** ☐ **ENGINEER** ☐ **AUDITOR**

1 Recommended motion: Move to approve the 2027-2031 Capital Replacement Plan.

2 What the action accomplishes: This plan lays out the capital projects that are contemplated for the next 5 years. This is as plan. Year 2027 is relatively accurate, some items may change. As the plans goes father into the future, more items may change.

3 Fiscal Impact: None at this time. The only items that make it into the budget initially are funded. Unfunded items will be added to the budget during the year, as they become funded.

4 Staff comments:

5 Staff review and recommended approval:

☒ **MANAGER** ☒ **ASSISTANT DISTRICT MGR**

☐ **ATTORNEY** ☐ **FIELD DIRECTOR**

☐ **ENGINEER** ☒ **FINANCE DIRECTOR**

6 Board Action:

☐ **APPROVED** ☐ **DENIED** ☐ **DEFERRED**

Lehigh Acres Municipal Services Improvement District

Capital Improvement Plan FY 2027 - FY 2031

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
CAPITAL IMPROVEMENT PLAN (Fiscal Years 2026 - 2030)

OVERVIEW

Board of Commissioners:

Mike Bonacolta	Chair
Julie Hollingsworth	Vice Chair
Rebecca Thompson	Treasurer
David Deetscreek	Secretary
Katy Hoover	Commissioner

Introduction
The Lehigh Acres Municipal Services Improvement District staff provides an updated Five-Year Capital Improvement Plan (CIP) every year prior to adopting the next annual budget. This latest revision was prepared in the spring of 2026. This plan is only a guiding tool that details how Staff anticipates that these projects will be brought to the Board of Commissioners for future action. The Board of Commissioners must approve each project individually before they become a reality. Fiscal Year 2026 projects are either already approved by the Board or recommended by staff as a necessity. As the CIP moves further into the future, the project reality and timing becomes less clear because of the unpredictability of the funding, design, and permitting needed to proceed with each project. Note whether each project has either secured or unsecured funding.

Background
The Lehigh Acres Municipal Services Improvement District (LA-MSID) is an independent special taxing District and formerly was the East County Water Control District (ECWCD). LA-MSID was created on June 10, 2015 and is authorized and empowered by Chapters 189, 197, and 298, F.S. and Chapter 2015-202 and 2017-216, Laws of Florida for the purpose of preserving and protecting water resources by drainage, irrigation, reclamation, irrigation, conservation, signage, parks and water management in Eastern Lee County and Western Hendry County and also has the ability to activate additional powers. The District is governed by an at-large elected five (5) member Board of Commissioners. The Board of Commissioners administers the District, independent from any other local governing body. The former ECWCD was created in 1958 pursuant to Laws of Florida Chapter 63-1549 through the Circuit Court, as amended, under the provisions of Florida Statutes 298.

Process
Water Control Plan
Every five years, the District must prepare a Water Control Plan, pursuant to Chapter 298, or demonstrate that there is no need to prepare a new plan. The purpose of the Water Control Plan is to include any systems, infrastructure or capital improvements that may be constructed and financed creating new debt-service to the District and it's assessment payers. The assessment payers and the South Florida Water Management District (SFWMD) must be notified of the proposed plan and have the opportunity to comment on it prior to adoption by the Board.

Facilities Inventory Report
Every year LA-MSID Staff or a consultant completes a physical review of at least 25% of every building, park, culvert crossing, water control structure and bridge within the District in order to document the existing condition of the District's infrastructure. The infrastructure is then rated on a one-to-five scale, with five being the worst condition and one being the best. A final report is prepared with rating sheets, existing condition pictures, and location maps for all District infrastructure. Please note the project type on each of the yearly summaries, whether a project is considered new (from the water control plan) or replacement (a maintenance project based on the Facilities Inventory Report).

Capital Improvement Plan
The Capital Improvement Plan is created using information from the Water Control Plan, the latest edition of the Facilities Inventory Report and Staff recommendations. The items that were rated a five in the Facilities Inventory Report receive a higher priority for future action. This plan does not include capital equipment purchases.

Yearly Budgets

The next five fiscal year budgets should utilize the Capital Improvement Plan as a planning tool for budgeting funds needed to plan, design, permit and construct identified capital improvement projects.

Major Revenue Sources

Bridge Fund
In the 2020 Budgeting cycle, the Commissioners of the District began a "Bridge Fund" program that would assess and deposit a set amount of funds. This "Bridge Fund" became a dedicated fund that would pay for road bridge maintenance, upgrades and replacements.

FDEP Revolving Loan
The State Revolving Fund (SRF) Water Pollution Control Program provides low-interest loans for planning, designing, and constructing water pollution control facilities. Federal and State appropriations have funded the SRF. It is a "revolving" fund because loan repayments are used to make future loans. By federal law, the SRF is to be operated in perpetuity. The Florida Department of Environmental Protection solicits potential project information each year. This information is used to establish project priorities for the following annual funding cycle. Funds are made available for Preconstruction Loans and Construction Loans. The Loan Terms include a 20-year amortization and low-interest rates (maximum rate of 80% of the current market rate). Preconstruction loans are available to all qualified communities and they provide up-front disbursements that can be used for administrative services, project planning and/or project design. Over the last couple of years SRF Funding has become very competitive and the program has not been able to keep up with the demand for funding. Stormwater projects will continue to get harder to fund through FDEP. Because of the economy, most agencies are vying for these funds, making it very difficult to secure this funding.

FDEP Water Quality Water Quality Restoration Grants
Annually, the state legislature provides funding for the implementation of best management practices, such as regional stormwater treatment facilities, designed to reduce pollutant loads to impaired waters from urban stormwater discharges. This funding is administered by the Nonpoint Source Management Section as the TMDL Water Quality Restoration Grant, which is set out by rule in Chapter 62-305, F.A.C. and authorized by Section 403.890(2), F.S.

The grant applications may be submitted at any time throughout the year and are reviewed and ranked in March, July, and November annually. Deadline for submittal of applications is by the close of business on the first business day of each review period. For example, for the March review period, only applications received by 5 pm on March 1st will be considered. Projects will be selected for grant funding based on these rankings and the availability of funding. Projects not selected for funding will remain in the pool of projects that will be ranked for one year from the date of submittal.

SFWMD Alternative Water Supply Program
In 1995, Florida's legislature directed the state's five water management districts to share revenues from property tax assessments with public and private entities willing to develop suitable alternative water supplies.

Accordingly, the South Florida Water Management District offers cooperative funding grants which fund up to 40% of the total construction cost of capital improvement projects that help implement safe and cost-effective alternative water supplies.

Applications for each year's funding cycle are available in January for the following fiscal year. The application deadline for the next cycle will be June 1st, 2025. Projects will be selected in June and July with funding agreements executed in September or October of 2021.

The AWS Program has cooperatively funded more than 480 projects since 1995 with over $209 million in tax revenues, making over 621 million gallons per day of water available. If that amount of water was being produced by a single water utility, it would be the largest water utility in the State!

These funds are very difficult for LA-MSID to qualify for and the funds have mostly been used for Municipal Water Treatment Plants.

Legislative Appropriations Grant
Grants may be secured directly from the legislature and will generally be deposited into the FDEP budget. Grants are usually made available from a solid lobbying effort and a very worthy project that has a widely desired benefit. LA-MSID must continue to work cooperatively with FDEP and SFWMD to meet the watershed needs of the area in order to continue receiving funds. These funds have been supplemented with additional funds provided by the Governor, at times.

SFWMD Watershed Initiative Grant
Grants are sometimes made available through the local Watershed Initiative Project. The Florida Legislature makes these grants available through line items in their budget and the grants are usually administered by SFWMD with a 50% match. The chances of any of these funds being available for a while are very low, for the foreseeable future.

HUD Grants

Following Hurricane Ian in 2017, HUD awarded Lee County $1.1 Billion to rebuild Lee County. LA-MSID can share in this funding, with projects that will mitigate damages during future storms.

FEMA Grants
Each year, after a direct or indirect impact from a Hurricane, (Irma in '17 and Ian in '22) the District will document damages and restorative efforts in a manner necessitated by FEMA. FEMA will reimburse the District at a later date, in the form of a grant.

Assessments
Each year, the District levies a non ad valorem assessment, per acre, or fraction thereof, to fund the current fiscal year maintenance and benefit budgets. The current assessment rate is $172.15 per acre or $35.54 for a typical 1/4-acre lot, annually.

Governor's Grants
From time to time, when there is specific budgetary money that is unspent, the Governor may allocate it to qualified projects. That is the method in which LA-MSID had received $15,500,000 in 2024.

Public or Private Partnerships
When an opportunity arises between two or more entities that can benefit each from either shared infrastructure, shared cost, economy of scale cost savings, etc., from a joint project, every effort must be taken to negotiate a deal. Currently opportunities exist between LA-MSID and the Florida Dept. of Transportation, Lee County Dept. of Transportation, Lee County Parks Department, Lee County 20/20 Program, Hendry County and DUDA. Currently, staff is working with the LDOT due to Lee County needing LA-MSID's land along Sunshine Blvd. for a road project, while Lee County will pay for roughly $41-million in LA-MSID projects.

Contributors:

Lehigh Acres Municipal Services Improvement District Staff
David E. Lindsay, District Manager
Michael S. Cook, Assistant District Manager
Dana March, Finance Director
William Walker, Field Operations Director
Lisa Waskiewicz, Resource and Relations Director
Daniel Schroeder, P.E., AIM Engineering & Surveying, Inc.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

CAPITAL IMPROVEMENT PLAN (Fiscal Years 2026-2030)

8

YEAR	Engineering & Permitting	Inspection	Construction	Land / Equipment Purchase	TOTAL	Grant Funding	Assessments / Spoil / In-Kind Funding	Loan Funding	Other Funding	NEW DEBT SERVICE
2027	1,170,000	74,000	5,978,000	0	7,222,000	7,022,000	$200,000	0	0	0
2,028	0	98,000	4,163,000	0	4,261,000	3,941,000	320,000	0	0	0
2,029	817,500	100,000	8,900,000	0	9,817,500	9,467,500	250,000	0	100,000	0
2030	590,000	20,000	750,000	0	1,360,000	840,000	520,000	0	0	0
2031	0	70,000	1,345,000	0	1,415,000	0	250,000	0	1,165,000	0
TOTAL	**2,577,500**	**292,000**	**19,791,000**	**0**	**22,660,500**	**21,270,500**	**1,290,000**	**0**	**100,000**	**0**

m

Lehigh Acres Municipal Services Improvement District

2027 Capital Improvement Plan

Yearly Summary

PRIORITY RANKING	PROJECT NUMBER	PROJECT TYPE	DES	PROJECT	ACTIVITY	START / FINISH	FUNDING SOURCE	Engineering & Permitting	Inspection Costs	Construction Costs	Land / Equipment Purchase	TOTAL FUNDING	Grant Funding	Assessments/ Spoil / Misc. / In-Kind	Loan Funding	Other Funding	NEW DEBT SERVICE AMOUNT	DEBT SERVICE START DATE	Funding Status
1	TBD	Replace	D/C	Culvert Replacement Phase 2027	Design & Build the next 5 culverts identified in 2026 Facilities Inventory Report.	2ND QTR 2027 / 3RD QTR 2027	LA-MSID Reserves	0	0	200,000	0	200,000	0	200,000	0	0	0	N/A	Secured
2	TBD	New	C	GS 10 Build Phase I	Remove exotics, excavate, stabilize, build structures, berms, maintenance paths and plant native plants.	2ND QTR 2027 / 3RD QTR 2027	Governor's Grant	0	74,000	5,778,000	0	5,852,000	5,852,000	0	0	0	0	N/A	Secured
3	TBD	New	D	Design Buckingham Trails STA	Design excavation, pump stations, weirs, maintenance area.	1ST QTR 2027 / 4TH QTR 2027	Lee County Grant	1,170,000	0	0	0	1,170,000	1,170,000	0	0	0	0	N/A	Secured
4	TBD	New	D/C	D/C Leeland Sinkhole Interpretive Center Purchase	Purchase Building for Interpretive Center, Trails, Security	1ST QTR 2027 / 4TH QTR 2027	Grant Funding	0	0	2,200,000	0	2,200,000	2,200,000	0	0	0	0	N/A	Secured
3	TBD	New	P	Puchase GS-10 Crosslink Parcels	Purchase by "calling to sale" parcels that LA-MSID has owned a tax certificate, for the last two years.	2ND QTR 2028 / 3RD QTR 2028	Non-recurring funds	0	0	0	70,000	70,000	0	70,000	0	0	0	N/A	Secured
6	TBD	New	D/C	Design/Build New Gunnery Rd. Entry Sign	Planned entry sign at Gunnery Rd. and SR 82.	1ST QTR 2027 / 4TH QTR 2027	Alternative Revenue	0	0	85,000	0	85,000	0	0	0	85,000	0	N/A	Secured
7	TBD	New	D	RISE Structure design & repair	Design Structure S-BP-1, S-O-1 Design, S-BL-2 Repairs. Retrofit S-R-2 and S-SF-3	1ST QTR 2027 / 2ND QTR 2027	Legislative Appropriation 2026	240,000	0	0	0	240,000	240,000	0	0	0	0	N/A	Secured
8	TBD	New	D	GS 10 Design Phase II	Design weirs, culverts, pump stations, additional excavation, etc.	2ND QTR 2027 / 3RD QTR 2027	Governor's Grant	900,000	85,000	0	0	985,000	985,000	0	0	0	0	N/A	Secured
8	TBD	Replace	D	Rebuild Structure Sailfish 1	Demolish, move and rebuild S-SF-1	3RD QTR 2027/1ST QTR 2028	Lee County Funding	0	0	0	0	0	0	0	0	0	0	N/A	Secured
9	TBD	New	D	Design Lee County Structures	Buiild S-MF-1, S-T-1, S-S-1.	3RD QTR 2027/1ST QTR 2028	Lee County Funding	0	0	0	0	0	0	0	0	0	0	N/A	Secured
PRIORITY RANKING	**PROJECT NUMBER**	**PROJECT TYPE**	**DES**	**PROJECT**	**ACTIVITY**	**START / FINISH**	**FUNDING SOURCE**	**$1,170,000**	**$74,000**	**$5,978,000**	**$0**	**$7,222,000**	**$7,022,000**	**$200,000**	**$0**	**$0**	**$0**	**DEBT SERVICE START DATE**	**Funding Status**

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Culvert Replacement Phase 2027

Description: Design & Build the next 5 culverts identified in 2026 Facilities Inventory Report.

Justification: 5 Culverts at $40,000 each = $200,000

Cost Calculation		
	Design	$0.00
	Bidding & Const Admin	$0.00
	Permit	$0.00
	Construction	$200,000.00
	Land / Equip.	$0.00

Total Cost	$200,000	Proposed Funding	LA-MSID Reserves

Grant Funding	$0	Assessments	$200,000	Loan Funding	$0

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	4067	Item Name	GS 10 Build Phase I

Description: Remove exotics, excavate, stabilize, build structures, berms, maintenance paths and plant native plants.

Justification: Will help to lower peak flows during a major event, more WQ and basin connectivity.

Cost Calculation			
Design	**0**	**as extrapolated on Florida RUS Bulletin 1780-9 (7.3%)**	**$0**
Inspect		as extrapolated on Florida RUS Bulletin 1780-9 (2.9%)	$74,000
Permit			**$0**
Construction			$5,778,000
Land / Equip.			**$0**

Total Cost	$5,852,000	Proposed Funding	Governor's Grant

Grant Funding	$5,852,000	Assessments		Loans		Bridge	$0	Other Funds

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	4067	Item Name	Design Buckingham Trails STA

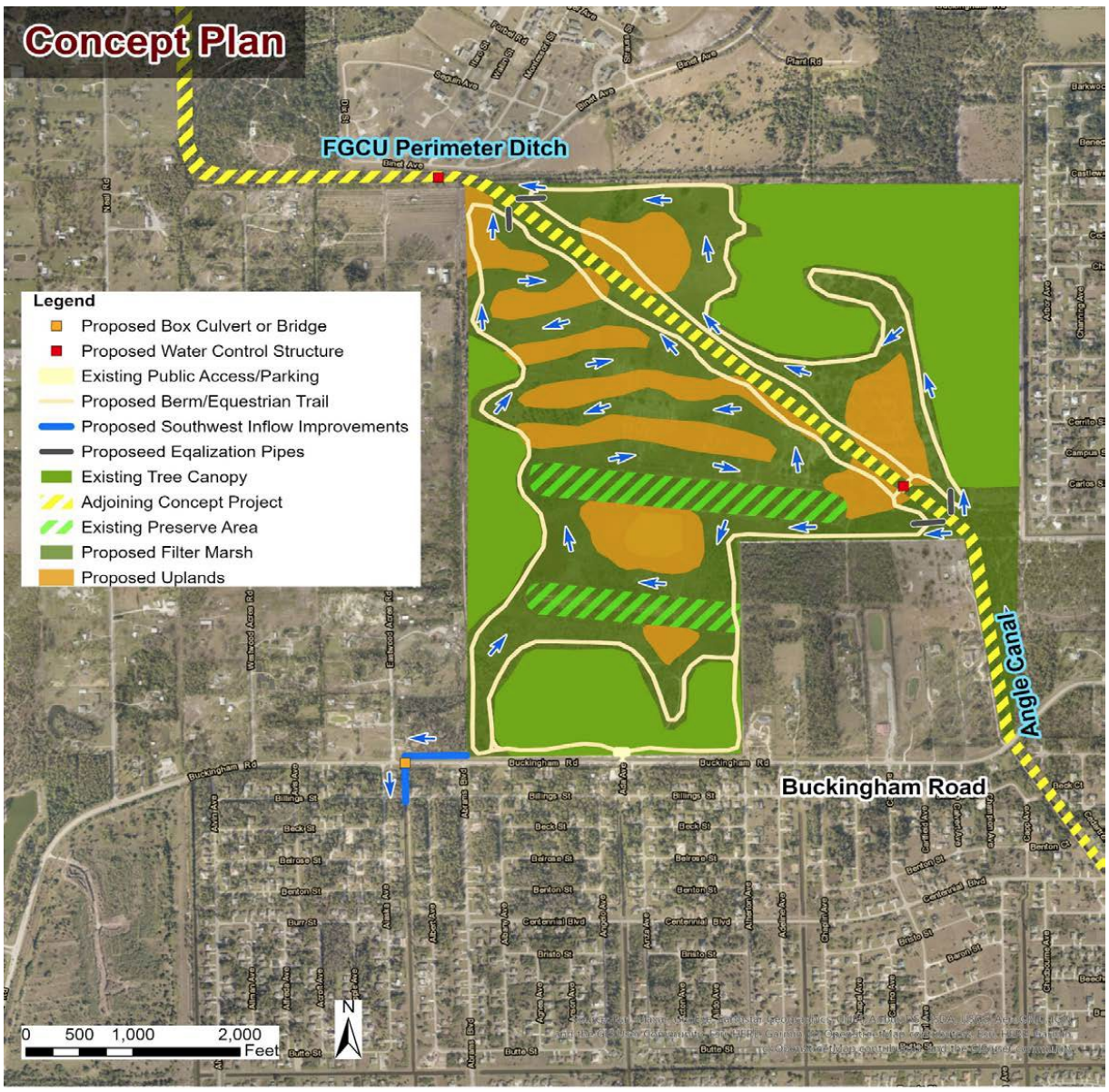
Description: Design excavation, pump stations, weirs, maintenance area.

Justification: Will help to lower peak flows during a major event, more WQ and basin connectivity.

Cost Calculation			
Design	**0**	**as extrapolated on Florida RUS Bulletin 1780-9 (7.3%)**	**$1,150,000**
Inspect & Bidding		as extrapolated on Florida RUS Bulletin 1780-9 (2.9%)	$0
Permit			**$20,000**
Construction			$0
Land / Equip.			**$0**

Total Cost	$1,170,000	Proposed Funding	Lee County Grant

Grant Funding $1,170,000 Assessments Loans Bridge $0 Other Funds



Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	4071	Item Name	D/C Leeland Sinkhole Interpretive Center Purchase

Description: Purchase Building for Interpretive Center, Trails, Security

Justification: Building is a perfect location for an interpretive center. This is the cheapest option considering all aspects.

Cost Calculation			
Design	**0**	**as extrapolated on Florida RUS Bulletin 1780-9 (7.3%)**	**$0**
Inspect		as extrapolated on Florida RUS Bulletin 1780-9 (2.9%)	**$0**
Permit			**$0**
Construction			**$2,200,000**
Land / Equip.			**$0**

Total Cost	$2,200,000	Proposed Funding	2025 Leg Appropriation

Grant Funding	$2,200,000	Assessments		Bridge $0	Other Funds

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number: TBD

Item Name: Design/Build New Gunnery Rd. Entry Sign

Description: Planned entry sign at Gunnery Rd. and SR 82.

Justification: Planned improvement using Alternative Revenue

Cost Calculation				
Design	$ 500,000.00	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)	$0.00
Inspect			$0.00
Permit			$0.00
Construction			$85,000.00
Land / Equip.			$0.00

Total Cost: $85,000.00

Proposed Funding: Alternative Revenue

Grant Funding: $ -

Assessment Funding

Alternative: 85,000

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Puchase GS-10 Crosslink Parcels

Description: Purchase by "calling to sale" parcels that LA-MSID has owned a tax certificate, for the last two years.

Justification: District canals that connect Frank Mann Preserve with Greenbriar Preserve are located on most parcels with no easement. Ownership is necessary. Also these very-low elevation lots will make excellent storage and water quality additions.

Cost Calculation				
Design	$ 500,000	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)		$0
Inspect				$0
Permit				$0
Construction				$0
Land / Equip.				$70,000

Total Cost	$70,000		Proposed Funding	Non-recurring funds	
Grant Funding	$0	Assessment Funding	$70,000	Bridge	$0

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	RISE Structure design & repair

Description: Design Structure S-BP-1, S-O-1 Design, S-BL-2 Repairs. Retrofit S-R-2 and S-SF-3

Justification: Structure collapsing and pipes and risers are severely corroded or floating

Cost Calculation	
Design	240,000.00
Inspect	$0.00
Permit	$0.00
Construction	$0.00
Land / Equip.	$0.00

Total Cost	$240,000.00	Funding	Legislative Appropriation 2026

Grant Funding	$ 240,000.00	Assessment Funding		Loan Funding	$0.00

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	4067	Item Name	GS 10 Design Phase II

Description: Design weirs, culverts, pump stations, additional excavation, etc.

Justification: Will help to lower peak flows during a major event, more WQ and basin connectivity.

Cost Calculation			
Design	**0**	**as extrapolated on Florida RUS Bulletin 1780-9 (7.3%)**	**$900,000**
Inspect		as extrapolated on Florida RUS Bulletin 1780-9 (2.9%)	**$85,000**
Permit			**$0**
Construction			**$0**
Land / Equip.			**$0**

Total Cost	$985,000	Proposed Funding	Governor's Grant

Grant Funding	$985,000	Assessments	0	Loans	Bridge	$0	Other Funds

Lehigh Acres Municipal Services Improvement
CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Rebuild St

Description: Demolish, move and rebuild S-SF-1

Justification: New structures for Sunshine Widening, Replace obsolete S-SF-1

Cost Calculation

Design
Inspect
Permit
Construction
Land / Equip.

Total Cost	$0.00	Funding	Lee Count
Grant Funding	$0.00	Assessment Funding	$0.00

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	$0.00
	$0.00
	$0.00
	$0.00
	$0.00

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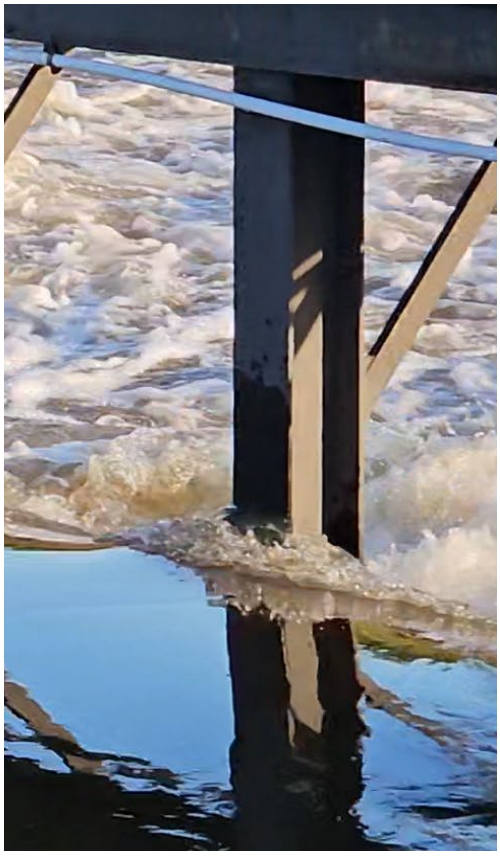
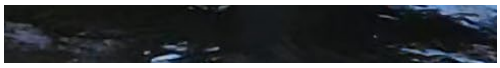
Loan Funding	$0.00





Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Design Lee County Structures

Description: Buiild S-MF-1, S-T-1, S-S-1.

Justification: New structures for Sunshine Widening, Replace obsolete S-SF-1

Cost Calculation	
Design	$0.00
Inspect	$0.00
Permit	$0.00
Construction	$0.00
Land / Equip.	$0.00

Total Cost	$0.00	Funding	Lee County Funding

Grant Funding	$0.00	Assessment Funding	$0.00	Loan Funding	$0.00

Lehigh Acres Municipal Services Improvement District

2028 Capital Improvement Plan

PRIORITY RANKING	PROJECT NUMBER	PROJECT TYPE	DES	PROJECT	ACTIVITY	START / FINISH	FUNDING SOURCE	Engineering & Permitting	Inspection Costs	Construction Costs	Land / Equipment Purchase	TOTAL FUNDING	Grant Funding	Assessments/ Spoil / Misc. / In-Kind	Loan Funding	Other Funding	NEW DEBT SERVICE AMOUNT	DEBT SERVICE START DATE	Funding Status
1	TBD	Replace	D/C	2028 Culvert Replacement	Design & Build the next 5 culverts identified in 2026 Facilities Inventory Report.	2ND QTR 2028 / 3RD QTR 2028	Assessments	0	0	220,000	0	220,000	0	220,000	0	0	0	N/A	Secured
2	TBD	Replace	C	Replace Asphalt Parking at Campus	The parking area has considerable wear and needs to be replaced.	2ND QTR 2028 / 3RD QTR 2028	Assessments	0	0	100,000	0	100,000	0	100,000	0	0	0	N/A	Unsecured
3	TBD	New	D	Weir Retrofit (D)	Add, actuators, telemetry & measurement S-R-1, as part of Alico to Sunshine	2ND QTR 2028 / 3RD QTR 2028	Lee County Funding	0	0	0	0	0	0	0	0	0	0	N/A	Secured
4	TBD	New	C	Build ROBUST Project, Phase II & Phase III	Build the ROBUST Project	1ST QTR 2028/ 4TH QTR 2028	Grant Funding	0	98,000	3,843,000	0	3,941,000	3,941,000	0	0	0	0	N/A	Secured
5	TBD	New	C	Weir Retrofit (C)	Add, actuators, telemetry & measurement S-R-1, as part of Alico to Sunshine	3RD QTR 2028 /4TH QTR 2028	Lee County Funding	0	0	0	0	0	0	0	0	0	0	N/A	Secured
PRIORITY RANKING	**PROJECT NUMBER**	**PROJECT TYPE**	**DES**	**PROJECT**	**ACTIVITY**	**START / FINISH**	**FUNDING SOURCE**	**$0**	**$98,000**	**$4,163,000**	**$0**	**$4,261,000**	**$3,941,000**	**$320,000**	**$0**	**$0**	**$0**	**DEBT SERVICE START DATE**	**Funding Status**

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	2028 Culvert Replacement

Description: Design & Build the next 5 culverts identified in 2026 Facilities Inventory Report.

Justification: 5 Culverts at $40,000 each = $200,000

Cost Calculation				
Design	$	500,000	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)	-
Inspect				-
Permit				-
Construction				220,000
Land / Equip.				-

Total Cost	$ 220,000.00		Proposed Funding	Assessments	
Grant Funding	$ -	Assessment Funding	220,000	Bridge	0

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Replace Asphalt Parking at Campus

Description: Rebuild and expand the campus parking area that is 17 years old.

Justification: The parking area has considerable wear and needs to be replaced.

Cost Calculation				
Design	$	500,000	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)	-
Inspect				-
Permit				-
Construction				100,000
Land / Equip.				-

Total Cost	$	100,000.00		Proposed Funding	Assessments		
Grant Funding	$	-	Assessment Funding	100,000		Bridge	0

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Weir Retrofit (D)

Description: Add, actuators, telemetry & measurement S-R-1, as part of Alico to Sunshine

Justification: Original structures were built with basic manual control.

Cost Calculation	
Design	-
	-
Permit	-
	-
Land / Equip.	-

Total Cost	$0.00	Funding	Lee County Funding

Grant Funding	$ -	Assessment Funding	$ -	Loan Funding	$0.00

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number 4072 Item Name Build ROBUST Project, Phase II & Phase III

Description Build the ROBUST Project

Justification The Caloosahatchee River is over the TMDL for nitrogen. This project and others are puzzle-piece solutions for the big picture. The project will also provide storage and flood protection for Bedman Creek.

Cost Calculation				
Design	$ 500,000.00	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)		$0.00
Inspect				$98,000.00
Permit				$0.00
Construction				$3,843,000.00
Land / Equip.				$0.00

Total Cost	$3,941,000.00	Proposed Funding	Grant Funding	
Grant Funding	$3,941,000.00	Assessment Funding	$ -	Loan Funding $0.00

Lehigh Acres Municipal Services Improvement
CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Weir Retr
Description	Add, actuators, telemetry & measurement S-R-1, as part of Alico to Sunshine		
Justification	Original structures were built with basic manual control.		
Cost Calculation	**Design**		
	Inspect		
	Permit		
	Construction		
	Land / Equip.		
Total Cost	$0.00	Funding	Lee Count
Grant Funding	$ -	Assessment Funding	$ -

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Loan Funding	$0.00

Lehigh Acres Municipal Services Improvement District

2029 Capital Improvement Plan

PRIORITY RANKING	PROJECT NUMBER	PROJECT TYPE	DES	PROJECT	GS 10 Build Phase II	START / FINISH	FUNDING SOURCE	Engineering & Permitting	Inspection Costs	Construction Costs	Land / Equipment Purchase	TOTAL FUNDING	Grant Funding	Assessments/ Spoil / Misc. / In-Kind	Loan Funding	Other Funding	NEW DEBT SERVICE AMOUNT	DEBT SERVICE START DATE	Funding Status
1	TBD	Replace	D/C	2029 Culvert Replacement	Design & Build the next 5 culverts identified in 2026 Facilities Inventory Report.	2ND QTR 2029 / 3RD QTR 2029	Assessments	0	0	250,000	0	250,000	0	250,000	0	0	0	N/A	Secured
2	TBD	New	C	GS 10 Build Phase II	Build Pump Stations, culverts, Greenbriar Outfall, maintenance station, WQ enhancements,	1ST QTR 2029/ 4TH QTR 2029	Governor's Grant	0	100,000	8,550,000	0	8,650,000	8,650,000	0	0	0	0	N/A	Secured
3	TBD	New	D	Hickey's Creek Outfall	PD&E and construction design for a new outfall to the Caloosahatchee	1ST QTR 2029/ 4TH QTR 2029	Lee County Funding	500,000	0	0	0	500,000	500,000	0	0	0	0	N/A	Secured
4	TBD	New	D	Halfway Pond/Moving Water South PH III Design	Re-establish flows from the southern areas of District south towards the Lee County well fields.	1ST QTR 2029/ 4TH QTR 2029	Grant Funding	207,500	0	0	0	207,500	207,500	0	0	0	0	N/A	Unsecured
5	TBD	New	C	New State Road 82 Entry Sign	Planned entry sign at SR 82 and Blackbird Canal	2ND QTR 2029 / 3RD QTR 2029	Alternative Revenue	0	0	100,000	0	100,000	0	0	0	100,000	0	N/A	Scured
6	TBD	New	D	Weir Retrofit Hendry Design	Add Gates, actuators, telemetry and measurement to S-H-3 and S-H-4.	1ST QTR 2029/4TH QTR 2029	Grant Funding	110,000	0	0	0	110,000	110,000	0	0	0	0	N/A	Unsecured
7	TBD	New	C	Construct Buckingham Trails STA	Construct excavation, pump stations, weirs, maintenance area.	1ST QTR 2029/ 4TH QTR 2029	Lee County Funding	0	0	0	0	0	0	0	0	0	0	N/A	Secured
PRIORITY RANKING	**PROJECT NUMBER**	**PROJECT TYPE**	**DES**	**PROJECT**	**ACTIVITY**	**START / FINISH**	**FUNDING SOURCE**	**817,500**	**100,000**	**8,900,000**	**0**	9,817,500	**9,467,500**	**250,000**	**0**	**100,000**	**0**	**DEBT SERVICE START DATE**	**Funding Status**

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	2029 Culvert Replacement

Description: Design & Build the next 5 culverts identified in 2030 Facilities Inventory Report.

Justification: 5 Culverts at $50,000 each = $250,000

Cost Calculation			
Design	$500,000.00	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)	$0.00
Inspect			$0.00
Permit			$0.00
Construction			250,000
Land / Equip.			$0.00

Total Cost	$ 250,000.00		Proposed Funding	Assessments	
Grant Funding	$ -	Assessment Funding	250,000	Bridge	0

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number 4067 Item Name GS 10 Build Phase II

Description Build Pump Stations, culverts, Greenbriar Outfall, maintenance station, WQ enhancements, additional excavation, etc.

Justification Will help to lower peak flows during a major event, more WQ and basin connectivity.

Cost Calculation			
Design	**0**	**as extrapolated on Florida RUS Bulletin 1780-9 (7.3%)**	**$0**
Inspect & Bidding		as extrapolated on Florida RUS Bulletin 1780-9 (2.9%)	$100,000
Permit			**$0**
Construction			$8,550,000
Land / Equip.			**$0**

Total Cost $8,650,000 Proposed Funding Governor's Grant

Grant Funding $8,650,000 Assessments Loans Bridge $0 Other Funds

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Hickey's Creek Outfall

Description: PD&E and construction design for a new outfall to the Caloosahatchee

Justification: Provides more flood control for Lehigh Acres, is a Southern Lee County Flood Mitigation Plan Project

Cost Calculation	
Design	$500,000.00
Bidding & Const Admin	$0.00
Permit	$0.00
Construction	$0.00
Land / Equip.	$0.00

Total Cost	$500,000	Proposed Funding	Lee County Funding
Grant Funding	$500,000	Assessments	$0
		Loan Funding	$0

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number 4029 Item Name Halfway Pond/Moving Water South PH III Design

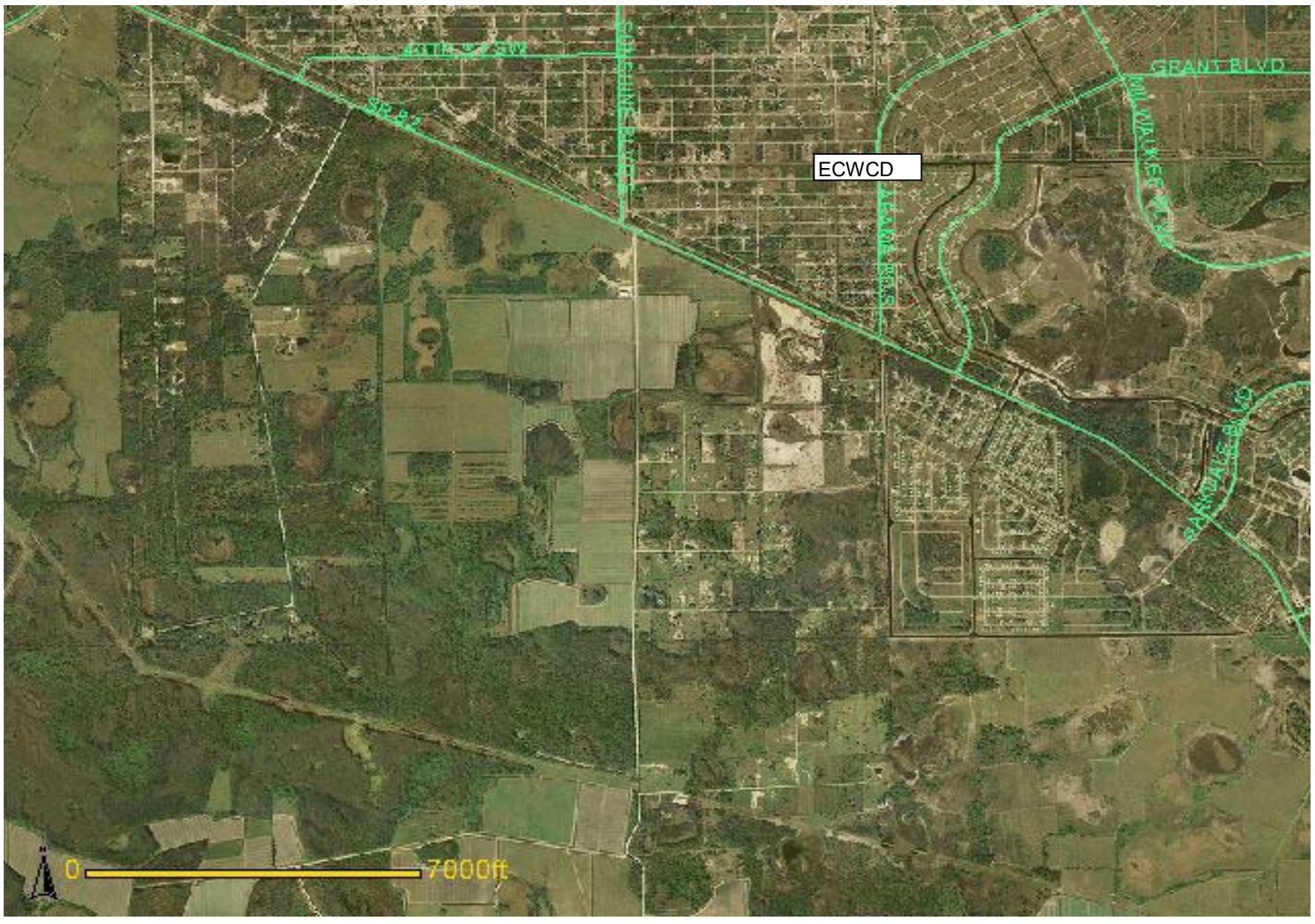
Description Re-establish flows from the southern areas of District south towards the Lee County well fields.

Justification Part of the SFWMD Watershed Initiative and CRWPP. It will also reduce flows that go to the Districts outfalls including the Orange River.

Cost Calculation	
Design	200,000
Bidding & Const Admin	-
Permit	7,500
Construction	-
200,000	-

Total Cost $ 207,500.00 Proposed Funding Grant

Grant Funding $ 207,500 Assessment Funding $ - Loan Funding $ -



Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	New State Road 82 Entry Sign

Description: Planned entry sign at SR 82 and Blackbird Canal

Justification: Planned improvement using Alternative Revenue

Cost Calculation				
Design	$	500,000	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)	-
Inspect				-
Permit				-
Construction				100,000
Land / Equip.				-

Total Cost	$	100,000.00	Proposed Funding	Alternative Revenue	
Grant Funding	$	-	Assessment Funding	Alternative	100,000

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Weir Retrofit Hendry Design

Description: Add Gates, actuators, telemetry and measurement to S-H-3 and S-H-4.

Justification: Provides more storage and required in FDOT JUSMSA Agreement 2016

Cost Calculation				
Design	$	500,000	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)	100,000
Inspect				
Permit				10,000
Construction				
Land / Equip.				-

Total Cost	$	110,000.00	Proposed Funding	Grant Funding
Grant Funding	$	110,000	Assessment Funding	Alternative

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	4067	Item Name	Construct Buckingham Trails STA

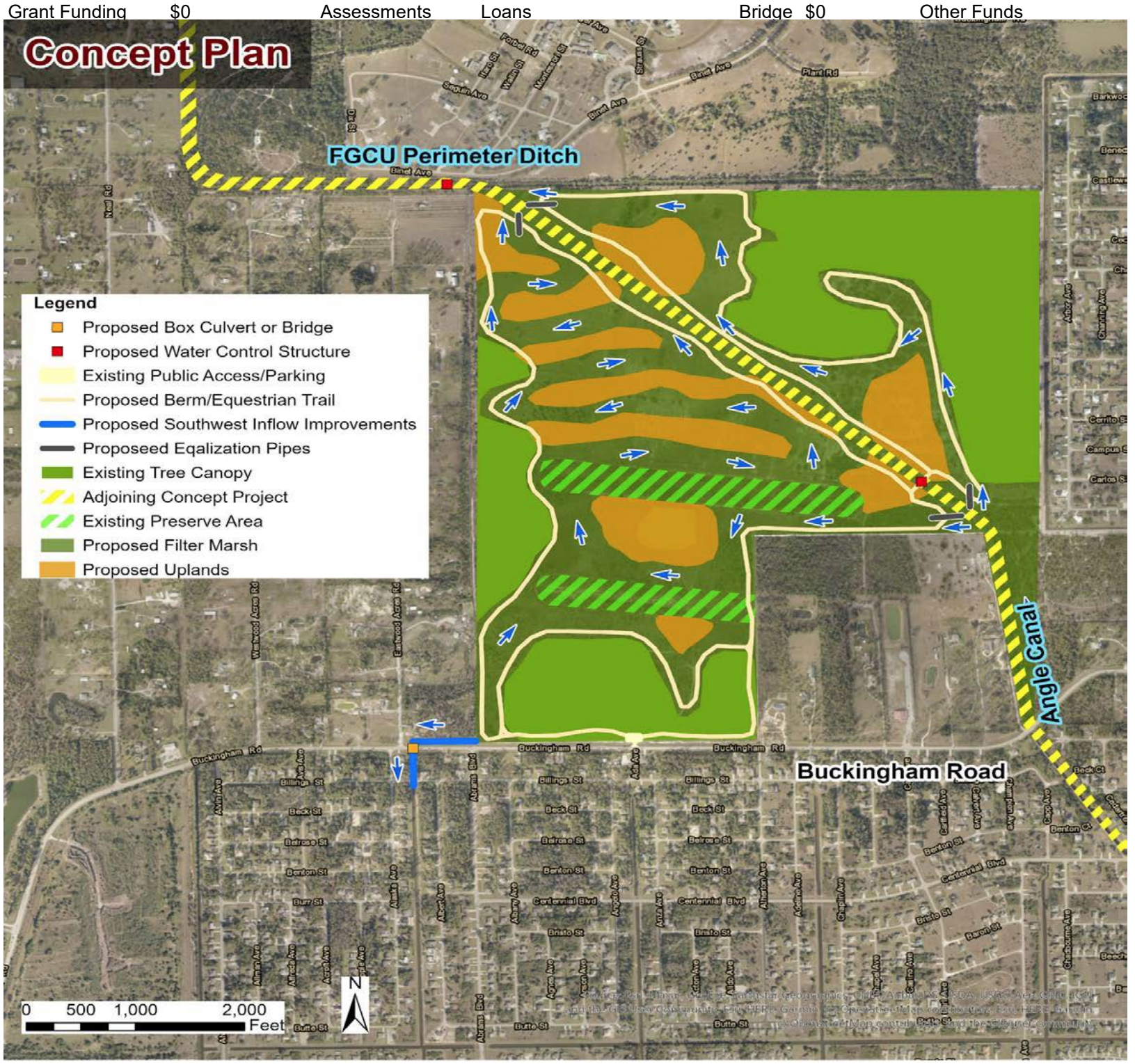
Description: Construct excavation, pump stations, weirs, maintenance area.

Justification: Will help to lower peak flows during a major event, more WQ and basin connectivity.

Cost Calculation			
Design	**0**	**as extrapolated on Florida RUS Bulletin 1780-9 (7.3%)**	**$0**
Inspect & Bidding		as extrapolated on Florida RUS Bulletin 1780-9 (2.9%)	$0
Permit			**$0**
Construction			$0
Land / Equip.			**$0**

Total Cost	$0	Proposed Funding	Lee County Funding

Grant Funding	$0	Assessments	Loans	Bridge	$0	Other Funds	



Lehigh Acres Municipal Services Improvement District
2029 Capital Improvement Plan

PRIORITY RANKING	PROJECT NUMBER	PROJECT TYPE	DES	PROJECT	ACTIVITY	START / FINISH	FUNDING SOURCE	Engineering & Permitting	Inspection Costs	Construction Costs	Land / Equipment Purchase	TOTAL FUNDING	Grant Funding	Assessments/ Spoil / Misc. / In-Kind	Loan Funding	Other Funding	NEW DEBT SERVICE AMOUNT	DEBT SERVICE START DATE	Funding Status
1	TBD	Replace	D/C	2030 Culvert Replacement	2030 Culvert Replacement'!	2ND QTR 2030 / 3RD QTR 2030	Assessments	0	0	250,000	0	250,000	0	250,000	0	0	0	N/A	Secured
2	TBD	Replacement	D	Replacement Bridge	Design a Replacement Bridge	1ST QTR 2030/ 4TH QTR 20\30	Bridge Fund	270,000	0	0	0	270,000	0	270,000	0	0	0	N/A	Secured
3	TBD	New	D	Design Sunshine Outfall	Design an outfall to the Caloosahatchee, include road route and route north from SR 80	1ST QTR 2030 / 4TH QTR 2030	Lee County Grant	320,000	0	0	0	320,000	320,000	0	0	0	0	N/A	Secured
4	TBD	New	C	Weir Retrofit Hendry Design	Add Gates, actuators, telemetry and measurement to S-H-3 and S-H-4.	1ST QTR 2030/ 4TH QTR 2030	Grant Funding	0	20,000	500,000	0	520,000	520,000	0	0	0	0	N/A	Unsecured
PRIORITY RANKING	**PROJECT NUMBER**	**PROJECT TYPE**	**DES**	**PROJECT**	**ACTIVITY**	**START / FINISH**	**FUNDING SOURCE**	**590,000**	**20,000**	**750,000**	**0**	**1,360,000**	**840,000**	**520,000**	**0**	**0**	**0**	**DEBT SERVICE START DATE**	**Funding Status**

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	2030 Culvert Replacement

Description: Design & Build the next 5 culverts identified in 2030 Facilities Inventory Report.

Justification: 5 Culverts at $50,000 each = $250,000

Cost Calculation			
Design	$500,000.00	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)	$0.00
Inspect			$0.00
Permit			$0.00
Construction			250,000
Land / Equip.			$0.00

Total Cost	$ 250,000.00		Proposed Funding	Assessments		
Grant Funding	$ -	Assessment Funding	250,000	Bridge	0	0

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number TBD Item Name Replacement Bridge

Description Design a Replacement Bridge
(1 Bridge Estimated)

Cost Calculation		
	Design	$260,000.00
	Bidding & Const Admin	$60,000.00
	Permit	$10,000.00
	Construction	$0.00
	Land / Equip.	$0.00

Total Cost $270,000.00 Proposed Funding Bridge Fund

Bridge Fund $270,000.00 Assessment Funding Loan Funding

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Design Sunshine Outfall

Description: Design an outfall to the Caloosahatchee, include road route and route north from SR 80

Justification: Will provide for much needed relief from major flooding, as Lehigh builds out.

Cost Calculation				
Design	$	500,000	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)	$300,000
Inspect				$0
Permit				$20,000
Construction				$0
Land / Equip.				$0

Total Cost	$ 320,000.00		Proposed Funding	Grant Funding
Grant Funding	$ 320,000	Assessment Funding		Alternative

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Weir Retrofit Hendry Design

Description: Add Gates, actuators, telemetry and measurement to S-H-3 and S-H-4.

Justification: Provides more storage and required in FDOT JUSMSA Agreement 2016

Cost Calculation				
Design	$	500,000	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)	-
Inspect				20,000
Permit				-
Construction				500,000
Land / Equip.				-

Total Cost	$ 520,000.00		Proposed Funding	Grant Funding
Grant Funding	$ 520,000	Assessment Funding		Alternative

Lehigh Acres Municipal Services Improvement District

2031 Capital Improvement Plan

Yearly Summary

PRIORITY RANKING	PROJECT NUMBER	PROJECT TYPE	DES	PROJECT	ACTIVITY	START / FINISH	FUNDING SOURCE	Engineering & Permitting	Inspection Costs	Construction Costs	Land/Equipment Purchase	TOTAL FUNDING	Grant Funding	Assessments/ Spoil / Misc. / In-Kind	Loan Funding	Other Funding	NEW DEBT SERVICE AMOUNT	DEBT SERVICE START DATE	Funding Status
1	TBD	Replacement	D/C	Culvert Replacement Phase 2031	Design & Build the next 5 culverts identified in the most recent Facilities Inventory Report.	2ND QTR 2026 3RD QTR 2026	LA-MSID Reserves	0	0	250,000	0	250,000	0	250,000	0	0	0	N/A	Secured
2	TBD	Replacement	D	Build New Joel Blvd. Entry Sign	Planned entry sign at Joel Blvd and Ridgemont Dr.	2ND QTR 2026 3RD QTR 2026	Alternative Revenue	0	0	95,000	0	95,000	0	0	0	95,000	**0**	N/A	Unsecured
3	TBD	New	D/C	Replacement Bridge Construction	Build a Replacement Bridge	1ST QTR 2026 4TH QTR 2026	Bridge Fund	0	70,000	1,000,000	0	1,070,000	0	0	0	1,070,000	**0**	N/A	Secured
PRIORITY RANKING	PROJECT NUMBER	PROJECT TYPE	DES	**PROJECT**	**2nd QTR 2025**	**START / FINISH**	**FUNDING SOURCE**	**$0**	**$70,000**	**$1,345,000**	**$0**	**$1,415,000**	**$0**	**$250,000**	**$0**	**$1,165,000**	**$0**	**DEBT SERVICE START DATE**	**Funding Status**

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Culvert Replacement Phase 2031

Description: Design & Build the next 5 culverts identified in 2011 Facilities Inventory Report.

Justification: 5 Culverts at $40,000 each = $200,000

Cost Calculation				
	Design	$0	as extrapolated on Florida RUS Bulletin 1780-9 (7.3%)	$0.00
	Inspect		as extrapolated on Florida RUS Bulletin 1780-9 (2.9%)	$0.00
	Permit			$0.00
	Construction			$250,000.00
	Land / Equip.			$0.00

Total Cost	Proposed Funding	
$250,000		Reserves

Grant Funding		Assessments		Loan Funding	
$0		$250,000			$0

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Build New Joel Blvd. Entry Sign

Description: Planned entry sign at Joel Blvd and Ridgemont Dr.

Justification: Planned improvement using Alternative Revenue

Cost Calculation				
Design	$	500,000	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)	0.00
Inspect				0.00
Permit				0.00
Construction				95,000.00
Land / Equip.				0.00

Total Cost	$	95,000.00	Proposed Funding	Alternative Revenue	
Grant Funding	$	-	Assessment Funding	Alternative	95,000

Lehigh Acres Municipal Services Improvement District

CAPITAL IMPROVEMENT JUSTIFICATION

Item Number	TBD	Item Name	Replacement Bridge Construction

Description: Build a Replacement Bridge
(1 Bridge Estimated)

Justification: The District has 22 Bridges with the oldest ones built in 1960 and the newest ones built in 1994.

Cost Calculation

Design	$	500,000	as extrapolated on Florida RUS Bulletin 1780-9 (8.0%)	0.00
Inspect				70,000.00
Permit				0.00
Construction				1,000,000.00
Land / Equip.				0.00

Total Cost	$ 1,090,000.00		Proposed Funding	Bridge Fund	
Grant Funding	$ -	Assessment Funding		Bridge	1,070,000

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: 2027--2031 Strategic Plan

Meeting Date: June 15, 2026

Agenda Item # 3C

☐ **CONSENT** ☒ **ACTION** ☐ **OLD BUSINESS** ☐ **NEW BUSINESS**

Request Initiated By: ☐ **COMMISSIONER** _____ ☐ **ATTORNEY**

☐ **BOARD** ☒ **MANAGER** ☐ **ENGINEER** ☐ **AUDITOR**

1 Recommended motion: Move to Approve the 2027-2031 Strategic Plan.

2 What the action accomplishes: This plan lays out the goals, and the strategies for the District to achieve over the next 5 years. The plan requires that the final strategies can be measured.

3 Fiscal Impact: None at this time.

4 Staff comments:

5 Staff review and recommended approval:

☒ **MANAGER** ☒ **ASSISTANT DISTRICT MGR**

☐ **ATTORNEY** ☒ **FIELD DIRECTOR**

☒ **ENGINEER** ☒ **FINANCE DIRECTOR**

6 Board Action:

☐ **APPROVED** ☐ **DENIED** ☐ **DEFERRED**

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

STRATEGIC PLAN

OCTOBER 1, 2026-SEPTEMBER 30, 2031

APPROVED BY THE BOARD OF COMMISSIONERS
June 15, 2026

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

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28. Program Objectives, Strategies, and Goals

Introduction from the Chair of the Board

Introduction from the Chair of the Board

June 2026

Dear Fellow Residents and Assessment Payers:

Michael Bonacolta, Chair

For more than 60 years, the Lehigh Acres Municipal Services Improvement District has proudly served our community by protecting and managing its water resources through effective stormwater management, water quality improvements, and flood protection. As Florida's largest unincorporated community, Lehigh Acres depends on forward-thinking special districts like ours to deliver essential services that enhance quality of life for all residents.

Over the decades, the District has evolved to meet the changing needs of our growing community. While stormwater management remains our core mission, we have expanded our role to include parks, community signage, and other services that enrich the places where we live, work, and play. Following our name and classification change in 2015, new opportunities emerged to broaden our capabilities through collaboration with Lee County and voter support. This has positioned us to potentially deliver additional services—such as sidewalks, streetlights, and water and sewer infrastructure—in the years ahead.

Since first running for the Board in 2010, my goal has remained simple: to make a meaningful, positive difference in the community I've called home my entire life. It has been a profound honor to serve you. I've dedicated myself to mastering the complexities of District operations so I can make informed, responsible decisions that deliver lasting benefits to our residents. Together with my fellow Commissioners and our dedicated staff, we have worked diligently to strengthen the District and advance projects that improve daily life in Lehigh Acres.

Our community has faced significant challenges during my tenure—including Hurricanes Irma, Ian, Helene, and Milton, a global pandemic, and economic uncertainty. Through every trial, the District has remained steadfast, delivering uninterrupted essential services while finding innovative ways to build resiliency and prepare for the future.

Thanks to strong collaboration among our Board, staff, legislative advocates, and local elected officials, we have successfully secured vital grants and legislative funding for critical projects. A prime example is the Rehydration of Resilient Infrastructure for Stormwater & Environment (RISE) Project, which received $3,554,300 in state funding. This investment will modernize our aging stormwater system, enhance water storage capacity, and improve water quality—all while reducing the financial burden on our assessment payers.

As we look forward, I am optimistic about the road ahead. The attached Strategic Plan lays out a clear vision and roadmap for continued investment in infrastructure,

environmental stewardship, and community enhancements that will keep Lehigh Acres a vibrant and desirable place to live for generations to come.
Thank you for your continued trust and support. Together, we will build a stronger, more resilient Lehigh Acres.

Sincerely,

Michael Bonacolta, Chair, LAMSID Board of Commissioners

Executive Summary

The Board of Commissioners and staff of the Lehigh Acres Municipal Services Improvement District (The Municipal District) are proud to present this 5-year "Strategic Plan" for October 1, 2026 through September 30, 2031.

Lehigh Acres Municipal Services Improvement District (LA-MSID), a Florida Statutes Chapter 189 Special District was created on June 10, 2015. The former East County Water Control District was created in 1958 to drain the Lehigh Acres area for development. ECWCD had since moved to a more balanced "water control" strategy in the 1980's, as the demand for more flood control and aquifer recharge increased over the years. Since then, the District has made incredible progress building the infrastructure needed to balance drainage, water storage, water quality and aquifer recharge.

In the early 2000s, ECWCD realized that it did not have the science available to make major stormwater infrastructure improvement decisions that could have an adverse financial impact on the whole community, while the projects might have been somewhat inneffective. During this time, ECWCD became involved in the South Florida Water Management District's (SFWMD) Caloosahatchee River Partners in Restoration and Lehigh Headwaters Initiative. Subsequently, a joint review and the creation of a Mike She, Mike 11 computer model of the district's drainage system was conducted for ECWCD and SFWMD by ADA Engineering, which identified inadequacies within the ECWCD water control system that would be exacerbated by continued development towards a full build-out population of more than 300,000 residents. Several potential future projects were identified to help mitigate the current system's shortfalls and start planning for the future. Today, the SW Florida economy is very strong and the water control system needs that were identified for future build out must still continue to be addressed as development warrants

The "ADA Engineering Report" from 2007 indicated a potential failure of the Harns Marsh perimeter berm during a 100-year storm. Many of the projects listed in the 2025-2030 Capital Improvement Plan are directly related to the recommendations from the ADA study. The report indicated that a shortage of stormwater storage exists and must be addressed soon (see storage progress, rain gauge, figure 1).

In September of 2017, The Municipal District took a direct hit from Hurricane Irma with Category 2 force winds and very heavy rainfall. There was widespread damage inside of our borders and the surrounding SW Florida communities. There was scattered high stormwater levels that crested some canal banks and caused a considerable amount of road flooding. Several homes downstream of the District, built in identified flood plains with finished floor elevations below the minimum FEMA 100-year storm elevations reported interior flooding. This event emphasized the need for more stormwater projects all over Lee County, including in and around the Municipal District. This event should create some state and local funding opportunities in the future. Subsequently, southwest Florida has taken many "near hits" from Hurricanes Ian (2022), Helene (2024) and Milton (2024). While these storms had major impacts to southwest Florida, Lehigh Acres fared much better with some wind damage to homes and wash outs within our stormwater system.

The District's population has continued to grow at a high rate for the last several years. Much natural storage has been systematically eliminated. Through local partnerships, grants and legislative appropriations the District has completed many projects and have begun a new Mike She, Mike 11 modelling update to determine our shortfall in storage and where localized projects can help our system remain effective.

The first five-year strategic plan was presented in fiscal year 2007/2008 and has been updated annually since then.

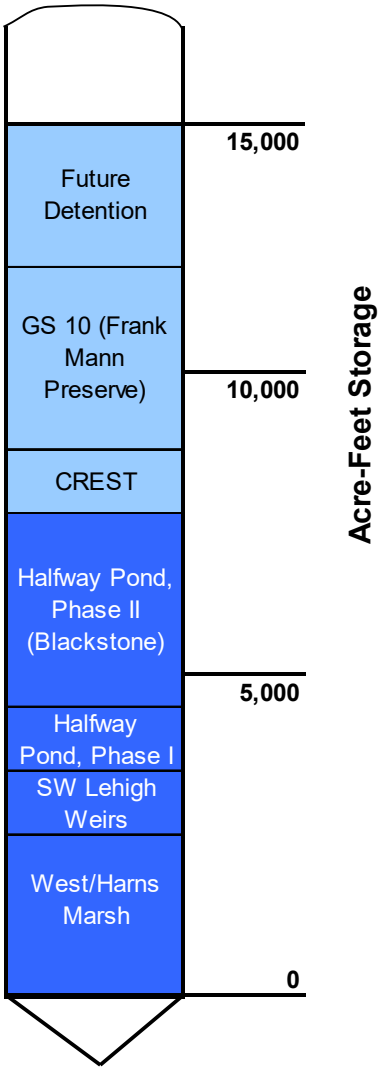
The goals, objectives and strategies outlined at the end of this report have reinforced our commitment to:

- ✓ provide the best level of general maintenance of our conveyance system
- ✓ continue to develop a high-quality, motivated and well-trained work force
- ✓ renew or replace substandard infrastructure
- ✓ plan and progress toward build-out goals
- ✓ secure low-cost financing and/or grant funding for our projects
- ✓ provide a consistent high level of services in a cost-effective and efficient manner

The Board of Commissioners have adopted revised prior Strategic Plans on these dates:

September 8, 2009	August 18, 2014	June 22, 2020
January 22, 2010	July 20, 2015	July 19, 2021
June 21, 2010	June 20, 2016	June 28, 2022
July 18, 2011	June 19, 2017	June 27, 2023
June 18, 2012	June 18, 2018	June 24, 2024
June 17, 2013	August 19, 2019	July 21, 2025

Approximate 100-Year Storage Needed for Full Build-out



Component	Unit Ac-ft	Cumulative Ac-ft
Future Detention	4,672	15,000
GS 10 (Frank Mann Preserve)	3,000	10,328
CREST	700	7,328
Halfway Pond Phase 2 (Blackstone)	2,000	6,628
Halfway Pond Phase 1	1,000	4,628
SW Lehigh Weirs	1,000	3,628
West/Harns Marsh	2,628	2,628

Note that the West Marsh volume shown is for the total Harns Marsh System

Figure 1

Contributors

Board of Commissioners:

Mike Bonacolta, Chair, Seat 4
Julie Hollingsworth, Vice Chair, Seat 1
Rebecca Thompson, Treasurer, Seat 3
David Deetscreek, Secretary 2
Katy Hoover, Commissioner, Seat 5

Staff:

David E. Lindsay, District Manager
Michael S. Cook, Assistant District Manager
Lisa Waskiewicz, Resource and Relations Director
Alexis Nielson, Administrative Support Specialist
Dana March, Finance Director
William Walker, Field Operations Director

Consultants:

Daniel Schroeder, District Engineer, Aim Engineering & Surveying, Inc.
Seth Behn, General Counsel, Lewis, Longman & Walker, P.A.
Nik Joshi, Labor Counsel, Hultman & Joshi, P.A.

Mission, Vision & Values Statements

Mission Statement

Adopted 7/20/2015

Lehigh Acres Municipal Services Improvement District is dedicated to preserving and managing natural and community resources by providing: safe, reliable, and high-quality services to its constituents in an environmentally and financially responsible manner.

Vision Statement

Adopted 8/11/2015

Lehigh Acres Municipal Services Improvement District, through the efforts of dedicated elected officials and employees, will deliver the highest quality services, provide a fair and orderly system of governance, and protect the area's environmental and community resources.

Values Statement

January 11, 2007

Diversity of our workforce

We want to maintain the diversity of our workforce to be consistent with the diversity of our community.

Integrity

We take pride in our work and are accountable and trusted to carry out our responsibilities with honesty and integrity. *We believe highly skilled and ethical managers are the foundation of a solid team.*

Service

Our ultimate responsibility to our assessment payers is our commitment to maintain District Property and Natural Resources at the highest possible level.

Teamwork

We believe that the basis for an effective team is built with well-qualified, well-trained individuals that take the initiative to seek personal development. *Employees must feel free to show initiative, take leadership and make suggestions to solve problems.*

Respect

We are committed to building an honest, fair and ethically sound relationship with both public and private organizations. *All individuals are unique and important, and will be treated with fairness, dignity and respect.*

Innovation

We are committed to using innovation, technology and best management practices to provide excellent service to all our residents.

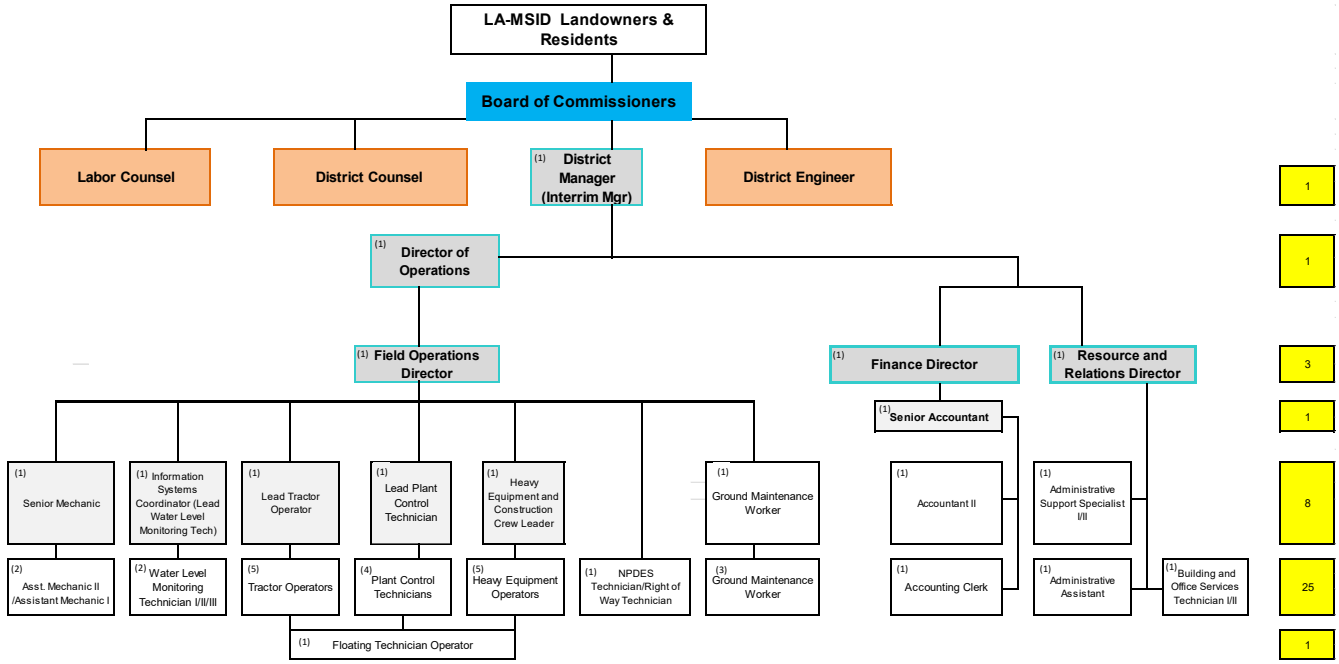
Community Involvement

We strongly believe in community involvement and actively participate in various local civic organizations.

Trust

We promote open communication, cooperation and teamwork which are shared responsibilities that are essential to the successful performance of our employees.

Lehigh Acres Municipal Services Improvement District
Organizational Structure
Approved: 11/18/24 Effective: 11/18/24



The above chart depicts that the landowners and residents of Lehigh Acres MSID elect the Board of Commissioners. The Board of Commissioners establish policy and the District Manager administers those policies and day to day operations of the District. The District Engineer and District Counsel are contracted by the Board of Commissioners to act for the District and to advise the board. The chart depicts the individual positions which all report directly to the District Manager. Total number of 39 full-time, regular employee slots.

Contracted Consultants =
Management Staff

Organization Profile and History

The Lehigh Acres Municipal Services Improvement District

Prior to the 1940s, eastern Lee County and Western Hendry County were a sparsely populated, undeveloped and agricultural area comprised of virtually flat land dotted with pristine pine flat-woods and pocked with numerous wetland areas. This type of eco-system allowed the 110 square mile area (now known as Lehigh Acres) to provide a significant amount of sheet-flow, percolation and groundwater recharge. At times, severe rain-storms and subsequent sheet-flow would overwhelm the rivers and creeks to the north of Lehigh Acres that discharged into the Caloosahatchee River at approximately 4' above sea level (NGVD). Today's State Road 82 was a natural ridge at approximately 31' above sea level (NGVD) and was used as an old cattle route, for bringing herds of cattle from Immokalee and Picayune Strand to Punta Rassa, for shipment to market. During the period leading to the 1960s, water was seen as the common enemy of the State of Florida and the primary objective was to drain it and prepare the land for development.

Inspired by the ingenuity of Lee Ratner, one of Lehigh Acres' original developers, and the concerns of the state, Judge Archie M. Odom handed down an order on May 5, 1958 creating East County Water Control District (ECWCD) – a political sub-division of the State of Florida. At that time, the State of Florida allowed developers to create drainage districts that would operate under Chapter 298

of the Florida Statutes. Chapter 298 allowed ECWCD to sell bonds, develop drainage infrastructure, operate and maintain the infrastructure and assess non-ad valorem taxes to pay for the work, among other powers. Enabling legislation was added that provided for five Supervisors to govern the new district.

As Lee Ratner and "Lee Land and Title" (Lehigh Corporation) developed roads and the other necessary infrastructure to prepare Lehigh Acres for development, East County Water Control District was engaged to implement the creation and maintenance of a drainage system. The area now known as Frank Mann Preserve or Section 10, which is on North Joel Blvd., was used to mine road base rock material to build many of Lehigh's copious roads. During that era, the method of electing the Board of Supervisors for ECWCD was by one-acre, one vote. Lehigh Corporation owned the vast majority of the land and, therefore, controlled ECWCD. The Board for Lehigh Corporation was also the Board for ECWCD. As the land was platted for development, the canals, lakes, and other infrastructure were dedicated to ECWCD (other canals and lakes that were owned by Lehigh Corporation were also deeded to ECWCD).

It was not until the mid-1970s that the State of Florida discovered damage due to the "over-draining" from Lehigh Acres and the overall negative effect that this was having on Florida's water resources. In 1975, steps were taken to correct the situation when the State and Federal agencies performed a rapid investigation on the practice of wetland drainage. Their final report determined that there was extreme "over-draining" of stormwater from ECWCD lands. Governing agencies forced the ECWCD to install many "temporary" water control structures in their canal system to better manage the stormwater and promote ground water recharge. Most of these temporary structures were in operation until well into the 2000s.

In 1979, ECWCD evolved from a drainage district to a water control district in order to preserve and protect water reserves using a combination of drainage, storage, and best water management practices. By 1988, as a majority of land was sold to residents, Lehigh Corporation began to lose control of the

Board's decision-making power. Legislation was approved to change the election of ECWCD Board Members from one-acre/one vote to a general election, popular vote. Lehigh Corporation completely lost control of ECWCD by the early 1990s.

ECWCD plays a crucial role in the community by preserving and protecting water resources in an area burdened with both intense drought and excessive rainy seasons. Lehigh Acres averages 52 inches of rain per year, with actual totals ranging between 36 and 80 inches per year. The rainfall is seasonal with three to four months during the summer contributing the majority of rain, with tropical systems also significantly contributing to the annual total (Scholl).

All of ECWCD's stormwater discharges through one of the four (4) existing outfalls to the Caloosahatchee River, from west to east they are: 1) Orange River 2) Hickey's Creek 3) Bedman Creek 4) Carlos Waterway. The Caloosahatchee River transitions into the Gulf of Mexico in areas known as estuaries. These estuaries are sensitive to a seasonal over-abundance of salinity or fresh water.

Lehigh Acres developed rather slowly for many years, having only 33,000 residents as of the 2000 census. During that period, many landowners stopped paying their assessments, as they felt that the land was valueless. The area experienced a construction and real estate boom beginning in 2005 that preceded the boom nationwide. Real estate prices increased tremendously and as the population swelled ECWCD, along with all governments began revising their Capital Improvement Plans to reflect the rapid growth. Practically all delinquent ECWCD assessments were paid as the underlying land gained value and ECWCD revenues exceeded budget projections. ECWCD was also able to sell spoil (dirt) to support the construction boom. These factors and others helped ECWCD keep assessment rates low.

During the real estate boom, a modeling study of the stormwater system was commissioned and performed by ADA Engineering, to analyze population growth and future flooding potential. This report was completed in 2007 and indicated that ECWCD will be approximately 15,000 acre-feet short of needed storage when Lehigh Acres is completely built-out. Following the completion of this study, the ECWCD Board immediately began to look for solutions to the District's stormwater storage problem. ECWCD

had been striving for affordability and effectiveness as it pursued innovative solutions to issues that were identified in the modeling report. Beginning in 2007, the housing boon waned and signs of a recession began to become apparent and by the summer of 2008, the nation was in a full-blown recession.

In May of 2008, the Lee County 20/20 Program agreed to purchase 200 acres adjacent to Harns Marsh (now known as the West Marsh). Lee County had allowed ECWCD to create a stormwater system on this parcel to provide better water quality in the Orange River and provide additional storage for high-flow rain events. The District signed a Memorandum of Understanding with the Lee County Board of County Commissioners on 12/11/2008, which divided maintenance responsibilities in the West Marsh and preliminary design of this project was completed in 2010. The census of 2010 marked the population at 86,000. Construction of the "West Marsh, Phase I" began simultaneously and provided fill for the State Road 82 Widening Segment I in the Summer of 2017. West Marsh Phase II excavation provided fill for Segment II of the State Road 82 Widening and was completed in December 2020. Phase III, including construction of the operating water control structures and the planting of thousands of native trees and plants, was completed in March 2021. The widening of Hendry Extension Canal began in January 2019 and provided fill for the Segment III and IV of the State Road 82 widening.

In April 2012, funds became available from the South Florida Water Management District to design and construct a pump station at Halfway Pond, also known as "Moving Water South, Phase I". This project was identified in the 2007 ADA report as part of the storage solution. The construction for this project was completed in October 2012 and has contributed at least 1,000 acre-feet annually towards reducing the District's storage deficit, along with providing freshwater relief to the estuaries in the Caloosahatchee River Basin and groundwater recharge in Lehigh Acres.

By 2014, the recession had run its course. Existing abandoned homes were being bought, new homes were being built again, home prices were on the rise and the State of Florida was realizing a substantial revenue increase. The Board and staff were as determined as ever to accomplish their mission, while being sensitive to the current economic pressures that were still facing our residents and the world

around us. The projected population of Lehigh Acres as of January 2015 was 115,000 (BEBR Dept. of the University of Florida).

On June 10, 2015, Governor Rick Scott signed Chapter 2015-202, championed by local State Representative Matt Caldwell into law. With this action, ECWCD was dissolved and the Lehigh Acres Municipal Services Improvement District (Lehigh Acres MSID) was created. All acts, property, obligations, and liabilities of the former ECWCD were transferred to the newly created Lehigh Acres MSID.

What this change in law and the creation of the Chapter 189 special district helps achieve, is a more clearly defined scope of our services – which remain what they have always been: drainage and flood control; conservation and mitigation; irrigation; navigation; roads/bridges; and limited parks powers. The new law was significant as it provided the potential to oversee the following additional services: streetlights, sidewalks, community signage, local planning, and potable water and sanitary sewer for the Lehigh Acres community.

As part of this change, legislators provided language that would allow Lehigh Acres MSID to study these new powers. However, these are not automatic powers. If the results of the study are favorable, the Lehigh Acres MSID must first enter into an agreement with Lee County and present our community with a referendum vote in a regular general election.

Great consideration was given to the powers added into Lehigh Acres MSID's legislation; consequentially, with the passage of this bill it is clear legislators felt these powers could be appropriately governed by the expertise of our board and staff. On November 6, 2018, the District brought its first referendum before the people of Lehigh Acre for a vote. An overwhelming 70.12% of the voters cast their ballot in favor of the referendum and community signage became the first added power since Lehigh Acres MSID was created in 2015. The District unveiled the first of five planned welcome signs on January 13, 2021.

The five-member, publicly elected Board of Commissioners of ECWCD will continue to serve as the Lehigh Acres MSID Board of Commissioners and their terms of office will remain the same. ECWCD was previously funded through non-ad valorem assessments – an annual flat-rate tax that is based on the size of a parcel, not its value. This continues to be the same manner in which Lehigh Acres MSID is funded.

LA-MSID completed the third and final phase of the West Marsh project in 2021. Aided by many grant sources and FDOT fees, the $13,200,000 project was completed in March 2021 with less than 5% of the total being covered by District assessments. The District then turned its attention to a similar project, the CREST project in Hendry County. In 2017, following Hurricane Irma, the District received financial assistance from the National Resource Conservation Service (NRCS) to move and rebuild Structure Hendry 2, as a first phase of CREST. LA-MSID has been awarded a $2 million water quality grant from FDEP in 2021 to start construction on CREST, Phase II. In 2022, the legislature awarded $4-million to LA-MSID to build CREST, Phase III. In 2023, the Legislature awarded through appropriations $1,500,000 for the purchase of the Leeland Sinkhole and $250,000 for the purchase of a parcel necessary for the ROBUST project in northeast Lehigh.

LA-MSID did not stop there. In 2024, LA-MSID was awarded $15.5-million Governor's Grant to continue design and to build Frank Mann Preserve. Also, the legislature awarded LA-MSID $1.5-million for ROBUST-Phase II and $2-million for the purchase of a building adjacent to the sinkhole and site improvements. Unfortunately, the sinkhole grant was vetoed by Governor DeSantis. In early 2025, LA-MSID was awarded $1.705-million to complete ROBUST-Phase III.

During the 2025 Legislative Session, LA-MSID was extremely successful in securing funding with a $2.2-million appropriation for the addition of an interpretive center and land improvements at the Leeland Bottomless Lake (sinkhole). Additionally, a $1.6-million appropriation was added to earlier appropriations for a grand-total of $4.805-million to complete the Robust project. All projects are in various stages, moving toward completion.

LA-MSID has again partnered with Lee County based on the County's need for land to complete the Alico Road to Sunshine Boulevard Connector and Widening Project. The final agreement is close to finished. As a trade-off for LA-MSID's land and loss of storage, Lee County will be providing funding for a new full model of the District's drainage system, three new structures, a rebuild of Structure Sailfish 1 and a stormwater flood retention project at the County's Buckingham Trails location. The modeling is underway since January of 2026.

Understanding This Strategic Plan

This strategic plan utilizes a traditional **SWOT**-style analysis. The acronym *SWOT* stands for **S**trengths, **W**eaknesses, **O**pportunities and **T**hreats.

Strengths are internal and are assets, resources or conditions of our District that the Commissioners or staff can control and give us an advantage over others; they can be budgetary, controls, activities or policy driven, etc.

Weaknesses are internal and are assets, resources or conditions that the Commissioners or staff can control and improve upon; they can be budgetary, controls, activities or policy driven, etc.

Opportunities are external and are factors or conditions that the Commissioners or staff can achieve and provides an advantage such as: things that are controlled by other agencies, private entities or the public, that is or can be a benefit for LA-MSID. They can be county or state policy, commodity pricing, the economy or public attitudes, etc.

Threats are external and are factors or conditions that the Commissioners or staff have little control of; or things that are controlled by other agencies, private entities or the public, that is or can be a detriment to LA-MSID. They can be county or state policy, commodity pricing, the economy or public attitudes, etc.

Program Objectives, Strategies and Goals (OSG) make up the final section. Each of these OSGs are directly derived from the strengths, weaknesses, opportunities or threats listed herein. These OSGs will guide the District in its quest to become stronger over the next five years.

SWOT

Strengths	Weaknesses
Leadership, Staff and Performance Technology Facilities Financial Position Operations	Facilities Management and Growth Plan Perceived Identity/Messaging Technology Succession Planning Financial Limits
Opportunities	**Threats**
Bank, State and Agency Funding Political and Resident Support Cooperative Efforts with Entities Increases in Technology Additional Powers The Economy	Labor Relation Issues Regulations/Unfunded Mandates Financial Changes Changes to District Makeup Environmental Concerns: Natural or Man-Made

Critical Issues and Strategies

SWOT ANALYSIS

STRENGTHS (Internal)

1. LEADERSHIP, STAFF AND PERFORMANCE

A. Open-minded Board of Commissioners – The Board realizes that they must always look to the future population growth and to employ long-range planning efforts. They have commissioned several studies that will provide the science and facts needed to make the most prudent decisions, even though the decisions made may not be popular to all. The Commissioners act on issues based on the state of the economy and the understanding of how assessment increases affect the residents of the District.

LA-MSID strives to increase the community education effort, so that the public can continue to support the work of the Board. The District will listen to the pulse of the community to determine the direction LA-MSID should take, whether it is to increase infrastructure, maintenance or to enact the powers afforded to them from the Florida Legislature. The Board members take an active role in formulating community partnerships. **Objectives and Strategies: A2c, A2e, A3a, A3b.**

B. Training and Safety of Staff
LA-MSID staff members are highly-trained in their field. The list below highlights some of LA-MSID's in-house skills. Our employees bring with them a variety of additional skills that have been a great help in special projects:

- Seven operators with skills on many types of heavy equipment: track excavator, long stick excavator, loader, bulldozer, skid steer, rubber-tire back hoe, forklift, water tanker, offset hallow disc, hydro-seeder, brush chipper, vibratory plate compactor, dump truck, off-road dump truck, low boy semi and trailer.
- Six CDL Class "A" Licensed Drivers able to transport all LA-MSID equipment
- Six skilled slope and flat mower operators
- Four licensed pesticide applicators
- Three experienced telemetry technicians
- Three welders and fabricators
- Two mechanics with back-up

- Highly skilled and educated administrative and other staff with members holding eight bachelor's degrees in: Accounting, Business Management, Engineering Technology in Construction Engineering Technology, Management and Supervision, Political Science, Communications and Public Relations, etc. and master's degrees in Public Administration, Business, and Communications.
- Four with varying levels of accounting experience
- Four management staff are Certified District Managers
- Three administrative staff with Certified District Admin Professional credentials
- Very knowledgeable and active public relations personnel
- LA-MSID has recently opted to piggy-back off of Lee County's lawn maintenance contract to limit the number of weed-eating crew, as our responsibilities continue to grow,

Although the private market and wages paid are somewhat higher than our wages, LA-MSID strives and succeeds in hiring quality employees and "training our own operators" by providing the proper level of training, while also striving to maintain a motivated workforce with positive attitudes. We will continue to consider maintenance contracts in areas that our responsibilities experience growth. **Objectives and Strategies: A1b, F2c**

2. TECHNOLOGY

The Commissioners and staff believe in the "do more with less" philosophy. LA-MSID is an organization that prides itself in regularly using technology to be more efficient and/or save money as indicated in the following areas:

- The District's new website was launched in April 2022. It is more user-friendly and ADA-compliant than the previous one.

- Software: Accufund Accounting Suite, on-line banking with positive pay which eliminates check writing fraud, Excel, Access, Archive Social, Municode/Civic Plus, OpenGov, telemetry, GIS, GPS Tracking, Time and Attendance Management, Microsoft Project, newly developed LA-MSID-specific databases and Outlook.

- Herbicide chemicals: selection, testing, staff-built invert spray rig, and many staff innovations.

- Heavy equipment: modernized upon replacement, increased fuel efficiency, track excavators, bulldozers, loaders, skid steers with many attachments, AQUA-BARRIERS, rubber tire backhoe, on road dump trucks, off-road dump truck converted military vehicle to water truck and converted military vehicle to swamp buggy/tour tram.

- GIS: budgeting, mail outs, mapping, tax roll certification, reporting, permits, and facility inventory.

- Databases: complaints, maintenance records, fuel use, parcels, permits, agenda item sheets, and publicly available database use.

- Telemetry: water control structures, weather stations, and video

- Communication: website, community outreach events/education, news releases, weather station, and satellite redundancy for internet and phone.

- Information Technology – wireless laptops and GPS tracking systems on vehicles and equipment

- Procurement Card Program: Makes transactions simpler, accounts payable processing more efficient; reduces bank fees, reduces check stock and postage expense and can provide a return of funds based on spending. The program also allows the District to monitor credit card usage and easily change individual credit levels on an as needed basis.

- Paperless processes and reporting: Board meetings, financial reporting, scanning archives and web site.

- Mobile Management and rights-of-way inspections: The Field Operations Director is much more efficient and can access the Lee County Property Appraiser website etc., to allow them to "Manage on the Move".

- Time-clock using new technology: provides the District with a method of tracking employee time and attendance with finger print id's, complimented by auto entry into our accounting software, and eliminates exhausting and error-filled paper methods while enhancing security along with saving staff's precious time.

- Construction: Staff has completed five culvert replacement projects, with one more planned, using a slip-lining method that will save time and money. Staff is utilizing "aqua-barrier" technology to quickly and efficiently coffer-dam our projects. We have been utilizing the Florida Department of Forestry's surplus equipment to bring free, used parts and vehicles back to the District.

- ROV : The District has recently purchased a Remote Operated Underwater Vehicle to inspect culverts on a rotating basis and after a new utility crossing and also to inspect the Leeland Bottomless Lake.

  LA-MSID strives to stay on the cutting edge of technology, specifically when LA-MSID can save valuable time and money or provide a superior service. Staff needs to stay current with changing technology and only recommend purchases to the Board that make fiscal and practical sense, under all economic conditions. Highly-trained staff, at proper operating levels, must be retained to ensure the efficiency of data entry and the overall accuracy and location of our data. Staff needs to increase efficiency and effectiveness of the technology as replacement of equipment becomes necessary. **Objectives and Strategies: A2i, F3b.**

3. FACILITIES

A. Central Location and Modern Facilities – LA-MSID's campus sits on an 8.7 +/- acre parcel that is very centrally located. The District's campus is comprised of three modern buildings which are home to all of the District's administrative and field staff. They include an administration building that, in addition to office space, houses a multi-purpose room that is used for public board meetings and a polling place; a fleet maintenance facility which includes a fuel station and wash-bay; and a renovated chemical storage facility, providing staff with a very efficient work site. The District's facility upgrades have allowed staff to complete projects as quickly as possible, and in turn helps to keep assessments low. A future additional equipment storage area is planned. Another office space in the administration building was completed. A total of seven shipping containers are in service.

The campus is fully serving our current needs. There is also undeveloped land for two additional buildings on our site for future growth, if needed. The site work that is in place provides for all stormwater, sanitary sewer, potable water and space for parking needs of any additional buildings. The Board and staff should continue planning over the next several years to anticipate any necessary growth, such as an intergovernmental emergency and operations center or needs based on adding a new power. **Objectives and Strategies: A1d.**

B. Great Backbone Drainage System – Construction of LA-MSID's drainage system began in the 1950s when water was considered the "common enemy" of the State of Florida. The State determined that following the construction and operation of the canal system, LA-MSID's system over-drained the land, forcing LA-MSID to build a weir system. In the 1990s LA-MSID changed its philosophy to water control, rather than stormwater drainage only. Our goal is for all LA-MSID weirs to operate at a lower elevation to provide flood protection in the wet season. In the dry season, our goal is for all weirs to operate at a higher elevation in an attempt to hold more water in our system and to recharge the surficial and sandstone aquifers, as well as provide adequate aquaculture for native flora and fauna. Several of our current (GS 10, ROBUST and the C.R.E.S.T. (Dog-Hendry Connection) Phase III projects will benefit all of these goals.

LA-MSID's system will continue to be maintained and improved when practicable, to provide the maximum storage, flood control, aquifer recharge, aqua culture and water quality for the assessment payers and the environment. District staff operates under a maintenance plan (updated every year) and a facility operations manual. The District is always looking for opportunities to expand its capabilities. **Objectives and Strategies: A2b, F1a, F2a, F2b.**

4. FINANCIAL POSITION

A LA-MSID has enjoyed an unmodified audit for many years and has received "no management comments" for the last nine out of 10 years. T.Y. Lin completed a bridge study and LA-MSID started the bridge fund in 2018 to start building reserves for repairs and eventual bridge replacements.

The District's mission is to preserve and protect water resources. As the needs of the community, environment and staff change, the Board must acknowledge those needs by evaluating crucial projects and assessment rates. LA-MSID will strive to keep assessment rates affordable for the foreseeable future. **A2d**.

B. Ability to Raise Revenue – LA-MSID is a multi-county, Chapter 189 Special District, and as such has the power to levy non-ad valorem assessments. The Board weighs necessary improvements to our system to the assessment rate needed to achieve these actions. The Board of Commissioners are always very conservative when determining the assessment rate for the property owners. 2025 was the last time that the assessment rate was increased. Rates have remained the same since. Due to LA-MSID's independent special district status, there is very little budgetary oversight from local government agencies. Should LA-MSID have a crisis, we have the ability to identify the needs as well as the means by which revenue can be raised.

Most Lehigh Acres residents own a ¼ acre parcel, so the yearly assessment is only $43.12! LA-MSID's legislative language should remain intact so as not to disturb the ability to levy non-ad-valorem assessment. The district has an intermediate-term goal of operating without any debt service by 2030. This goal is made possible by opportunities for partnership with other agencies and private sources. The State of Florida has been flush with revenue due to the increase of

tourism and the receipt of federal funding due to recent hurricane damage in southwest Florida. Tourism has increased taxes significantly, creating a better opportunity for landing grants. Over the last 20-years, the District has secured more than $70 million in grants or ! **Objectives and Strategies: A2a**.

C. **Steady Revenue Stream –** Whereas other agencies (that depend on ad-valorem taxes as their main source of revenue) may experience a ballooning of their revenue during economic upswings and a collapse of revenue during a downturn, LA-MSID's revenues will be steady. By relying on non-ad valorem assessments (based on lot size) as our main revenue source, LA-MSID has remained at a reasonable and healthy revenue level. Also, the legislature has not limited LA-MSID's ability to raise revenues, if necessary, in an emergency, or to maintain its infrastructure, operations and future projects**.**

LA-MSID will continue to be active with the Florida Association of Special Districts (FASD) and be willing to participate and/or support actions by the FASD that will protect LA-MSID, its objectives and goals. We must work with our local delegation members to educate them about LA-MSID's public benefit and increase their awareness of the steps we take to keep our assessments affordable while providing necessary services. **Objectives and Strategies: A2a, A2b.**

D. **Necessary Capital Projects and Purchases** – LA-MSID has been very diligent for the last 20-years, constantly rebuilding ailing infrastructure and replacing capital equipment. Recently the District completed the CREST, Phase II Project. We have replaced or constructed 119+ water control structures (weirs). We have replaced 121 of the 375 culvert crossings. Our capital equipment is replaced on a revolving plan and is kept up to date. We have sought out and cemented partnerships with peer organizations/agencies to secure funding for crucial capital projects without the need to increase assessments.

LA-MSID will continue its program of a 4-Year Facilities Inventory (inspecting one-quarter of our infrastructure, every year), 5-Year Capital Improvement Plan (updated every year), Strategic Planning (updated every year), District modeling (updated this year) and a 5-Year Capital Purchase Plan (updated every year). The District has completed thirteen-years of in-house culvert replacements (total of 85 culverts replaced in-house since 2010). The District will strive to meet our Rain-Gauge based storage goals. Staff is constantly looking for alternatives to lower costs or increase efficiencies. **Objectives and Strategies: A2b, F1a, F3f, F3b.**

E. **Equipment and Infrastructure –** LA-MSID owns and maintains its own fleet of heavy equipment, mowing tractors, spray equipment, vehicles, and smaller mowing equipment. LA-MSID has the responsibility and ability to maintain 311 miles of canals, 25 lakes, 375+ culvert crossings, 22 bridges, 119+ water control structures and 2000+ acres of preserves in a manner that the community can be proud of. We are always looking for ways to further enhance our maintenance practices.

LA-MSID strives to retain highly skilled employees. We strive to preserve the necessary institutional knowledge and to provide needed services in an efficient manner. The District continually reviews needed projects, for implementation. Management evaluates both cost benefits and reviews staff's advanced skills to try and bring projects in-house when possible. Currently, the District is able to replace failing culverts with in-house staff. The in-house replacement of culvert crossings saves the District approximately $50,000 per culvert. LA-MSID needs to continue this in-house replacement process. LA-MSID's staff also has the skills necessary to perform many of the maintenance and repair activities needed to maintain our fleet of vehicles

and heavy equipment. This enables LA-MSID to maintain the District's infrastructure and virtually eliminate outside costs and down time. **Objectives and Strategies: A1b, F1a, F3f**

F. Funding for Future Bridge Failure and Maintenance

This item has gone from a weakness to a strength. The District owns 22 bridges that were built between 1958 and 1992. To date, there has been only minor maintenance performed based on findings of State bridge inspections. The time is coming when LA-MSID may have an expensive repair or even a failure.

The District should continue to address the potential short-fall of funding in 2025-2026. The fund currently has $1,381,798, less any maintenance expenditures for the rest of the year. This is about enough to replace one entire bridge. The funding should have the ability to fund (1) yearly maintenance, (2) minor or major repairs, (3) replacement design & permitting and replacement construction. There is a possibility of LA-MSID giving away roughly 8 bridges to Lee County over the next 8-10 years, as they alter them. **Objectives and Strategies: F3i.**

5. OPERATIONS

A. Additional and Improved Policies – LA-MSID has an extensive list of policies and procedures in place and is constantly updating them to stay current. There has been a lot of discussion at the Board table about additional policies. LA-MSID has recently re-vamped our Finance Policy.

Staff should pursue drafting new or updated policies with vigor, as the need arises. Soon, we will be creating a Succession Policy. **Objectives and Strategies: A1a.**

B. Sense of Community – While the Board of Commissioners and staff have always put F.S. Chapter 189 and 298 powers prescribed by the state and its special acts at the forefront, they are also very much in tune with community organizations and their activities. If there is any way to provide a win-win situation for LA-MSID and the local community, the Board will seriously consider the action.

The Board and staff attempt to always be in-tune with the community's needs. LA-MSID needs to continue its collaboration with all related planning organizations to ensure the best potential outcome for our residents, as it relates to our powers. The Resource and Relations Director has implemented several community-based, educational events that have been widely applauded and well attended. Outreach and Education efforts are just a way to reach our community but are integral parts of our reporting for grants, MS4 and NPDES reports and is integral to the overall success of the programs; as the District grows and the community grows so will the outreach efforts. The Leeland Bottomless Lake presents an opportunity for LA-MSID to create more community spirit and cohesiveness. The land has been purchased by LA-MSID and the legislature has approved the funding for the purchase of the adjacent building and improvements on the parcel, we are waiting on the Governor's consideration. **Objectives and Strategies: A2c, A2e.**

WEAKNESSES (Internal)

1. FACILITIES MANAGEMENT AND GROWTH PLAN

A. Lack of Stormwater Storage

In 2007 and with updates, LA-MSID has charged AIM Engineering and ADA Engineering with the task of modeling LA-MSID's stormwater system. The main goal of the model is to simulate build-out in Lehigh Acres, along with simulating various 25 to 100-year storm events to determine what will happen within LA-MSID's borders as well as the impact to areas downstream of LA-MSID. The model results indicate that LA-MSID was approximately 15,000 acre-feet short of storage at full build-out of Lehigh Acres. That is equivalent to a lake that covers six-square miles, four feet deep. In November 2016, an extensive update to our District-wide model was completed. As part of ongoing negotiations with Lee County regarding the Alico Road to Sunshine Blvd. extension and widening, Lee County has agreed to provide a District-wide modeling update in 2026.

LA-MSID should continue modeling efforts to become more precise. In addition, we need to evaluate various project options and take the most responsible course of action to alleviate the storage shortfall and any other concerns. The Board and staff are working diligently to find, design and build the proper infrastructure to stay ahead of this shortfall, while being sensitive to the economic conditions. With the 2026 modeling effort, we will learn about our abilities to meet future needs. New projects may grow out of that. **Objectives and Strategies: A2a, A2b, F2a, F2b.**

B. **Vulnerability of Aging/Failing Infrastructure** - While the District has done a good job in repairing or replacing failing culverts and water control structures (weirs), there is an abundance of culverts and bridges in our system that could fail over the next 20 years. The cost of replacing each one of our 22 bridges could range between $2 million to $4 million, when you factor in both the design and construction cost. In addition, we have approximately 225 remaining metal culverts in our system that could start to fail at a rate of 10-15 per year. Currently, they are failing at a rate of 5-6 per year. It has become apparent that our first modern sharp-crest weir, built in 1995 has become obsolete and cannot meet today's demands. A brand-new weir is planned.

Staff must continue its infrastructure inspection efforts by inspecting one-quarter of the District's infrastructure each year. The Board needs to stay apprised of all developments related to failing structures. The Board will need adequate lead time to make preparations for funding and replacement. Staff should continue its efforts to repair and upgrade water control structures each year. Talks should continue with Lee County with an emphasis toward their ownership of the bridges and roadways over the culverts and their participation in the culvert replacement projects. Bridge repair and replacement was a hot topic in 2019 and provided a new revenue stream in 2020. The District should look at setting up a fund to management growing needs, emergency needs, and growth of staff and office space. Debt Service is set to fall off in 2030 and a strong goal would be to have a healthy fund established by this time to address future needs. The ownership of several Bridges in the Sunshine Blvd. corridor may be impacted by the Lee County Road project. At that time ownership of the affected bridges may revert to Lee County. **Objectives and Strategies: A2b, F1a, F3f, F3i, F3m, F3o, F3r**

C. Lack of Adequate Maintenance Space on Right-of-Ways – When LA-MSID and Lehigh Corporation dug our canal system in the 1950s through the early 1990s, attention was not given to ensure that canals were dug in the centers of the rights-of-ways. In some isolated cases, just enough land was secured for the width of the canal, rendering maintenance nearly impossible with conventional methods. The end result, is that the District has approximately 128 miles of canals with little or no room for District equipment to access and maintain the canals. The District purchased two remote controlled slope mowers since 2020, that staff expects will be a valuable tool in helping to maintain the 12.5-mile weed eating circuit.

Staff must continue to develop new and innovative ways to achieve more efficient maintenance methods, while eliminating existing inefficient maintenance areas using "outside of the box" solutions. **Objectives and Strategies: F1a, F3j, F3l, F3a**

D. Administrative Storage Space Growing Short - Our administrative building is now twelve years old and we have run out of storage and office space. Storage items include: hard-copy paper records which we must maintain to satisfy public records laws; events equipment and materials; safety and hurricane supplies; electronic equipment, chairs and tables. The Barrett Room is growing in popularity and we often need to temporarily store excess items while the room is in use. In FY23, shipping containers were purchased for new, on-site storage space. They have been outfitted to suit current storage needs.

Staff will continue to monitor the situation and will notify the Board should LA-MSID need to implement an additional onsite storage option. **Objectives and Strategies: A1d.**

2. PERCIEVED IDENTITY/MESSAGING

While this item has not transitioned to a District strength, we are making great strides in our efforts to raise awareness of the District. The agency has been in operation for 68 years and until the mid-2000s public education was not an objective of the District. We understand educating a diverse and growing population with limited resources/budget will take time. Staff has updated a website and maintains social media sites, puts out news releases, creates and delivers community presentations and educational programs to help identify LA-MSID. The Resource and Relations Director works with community partners to create educational opportunities for residents and key target audiences. We have developed a District mascot, Able Otter, to help brand LA-MSID and educate residents and he is a hit! LA-MSID's Resource and Relations Director has been very active in a strong attempt to make this a District strength.

With increased and improved news releases on social media, we have seen progress in community awareness, but a majority of the public is still not responding significantly and accurately to LA-MSID's identity and mission. District activities usually get good coverage. Staff needs to brainstorm about new methodologies to clarify and improve our recognition. Staff has organized many successful special events, secured grants, received awards and prepared multiple public relations plans and grants but, perhaps, suffers somewhat by the lack of funding for District-wide outreach activities. Staff had provided a small outreach budget, but a majority of funding comes from grants and community sponsors to implement outreach programs.

LA-MSID's educational, public, and internal programs have received regional and state awards and recognition. In 2016, LA-MSID earned several local and state honors/awards for its public relations programs – Weather Station. The annual "WOW Festival" makes large strides toward increasing the

public's ability to discover Lehigh Acres Municipal Services Improvement District! The Supervisor of Election's use of our facility as a voting precinct has made an impact on the public in that zone of where and who we are. Other local government agencies and community organizations have displayed a growing interest in hosting meetings and events in the Barrett Room. The District has won awards for engineering and design of some of our key projects on both local and state levels, drawing attention to the innovations. **Objectives and Strategies: A2e, A3a, F3n.**

3. TECHNOLOGIES

A. Deficient Data Collection for Select Maintenance Activities – LA-MSID has reliable computer programs to collect data for accounting, time-keeping and complaints. For many years, LA-MSID has relied on staff-developed Microsoft Access databases and Excel spreadsheets to collect data, from mowing, spraying, canal clean-out, water quality, etc. These databases began to fail and become unreliable. Staff turnover also contributed to this data-collecting deficiency. Staff has continued to provide on-paper records for daily maintenance activities. Staff has begun the process of looking for inclusive replacements for some databases.

Staff should focus their efforts to finish the fuel monitoring and database system, as well as a vehicle and equipment repair database. The answer may lie with a comprehensive government maintenance software program. **Objectives and Strategies: F3h.**

OPPORTUNITIES (External)

A. POLITICAL AND RESIDENT SUPPORT

LA-MSID enjoys an era of very favorable status with Representatives and Senators in the Florida Legislature. We also have experienced a rather long period of smooth operations due to system improvements and a Board that has worked very well together for a long time. This provides an overall favorable opinion of the District. The District has been very successful working with the legislature in 2025 securing $3.8 million.

Although LA-MSID has a very advanced and celebrated public information program, the District needs to continue to step it up another notch in the use of the media information program and also continue to educate the public through the use of brochures, events, partnerships, PowerPoint presentations, etc. This may include increasing funds available for outreach for ads, events and materials, etc. Additionally, there will be an increase in networking to build relationships with key community organizations and leaders. Information can also be disseminated through the school system and other suitable public forums. LA-MSID has produced a professionally-made educational video and has plans to update it frequently for use as a marketing tool. **Objectives and Strategies: A2e, A3e, A3b.**

B. COOPERATIVE EFFORTS WITH ENTITIES

There are several entities that need LA-MSID's support or cooperation to help cut the cost of their respective projects. FDOT and LDOT often need fill dirt and stormwater storage ponds for road projects. LA-MSID can help them in their endeavors by thinking "outside of the box". Developers need access to our water control system in order to provide a positive drainage outfall; Lee County Parks Department needs additional land for park projects, etc. Offering our assistance to these different entities can also pave the way to strengthening our professional relationships. Cooperation through memberships, awards; assistance with grants; working with Cathy Olson and the Bird Patrols at Harns Marsh; Lehigh Community Initiative in community trash removal events; and other projects can benefit LA-MSID and our assessment payers. SFWMD has always been a great partner with LA-MSID through the Caloosahatchee River Watershed Program and the Lehigh Headwaters Initiative. Continued efforts with FDOT with their road-widening efforts can vastly benefit both agencies.

As entities contact LA-MSID for assistance with permitting, easements, etc., negotiations should ensure that will also facilitate the entity helping LA-MSID meet District goals. **Objectives and Strategies: A2e.**

C. INCREASES IN TECHNOLOGY

Technological breakthroughs can allow LA-MSID to complete tasks more efficiently, lower costs and use less manpower. Our Actsoft GPS Tracking software, remote-controlled slope mowers, drone and ROV operation are all good examples of this.

Technology continues to evolve at a rapid pace. We must continue to keep our eye to the horizon through publications and organizations that stay current with new technology. The District will evaluate tools we

already have – for instance using GPS software to identify improvements in time management and work assignments to help reduce costs. The District should study available products and programs and training to help improve operations.

D. GAINING ADDITIONAL POWERS

LA-MSID always keeps the needs of the residents within our District in the forefront to determine when help is needed. In 2015, Representative Matthew Caldwell championed House Bill 1255 in order to change East County Water Control District (ECWCD) from a Florida Statutes Chapter 298 drainage and water control district to a Florida Statutes Chapter 189 improvement district to provide a more clearly defined scope of services. On June 10, 2015 Governor Rick Scott signed House Bill 1225 into law dissolving ECWCD and transferring all of its acts, property, obligations, and liabilities to the newly created Lehigh Acres Municipal Services Improvement District (Lehigh Acres MSID). As part of this change, legislators provided language that would allow Lehigh Acres MSID to study new powers in limited areas such as: sidewalks, street lights, community signage, local planning, and water and sewer services.
However, these are not automatic powers. If the results of the study are favorable, the LA-MSID must first enter into an agreement with Lee County and present our community with a referendum vote in a regular general election. In 2018, LA-MSID successfully completed all of the steps to add community signage to our permanent powers. The referendum was successful at a margin of 70% voting in favor to 30% voting against.

LA-MSID added signage powers and must continue to consider the needs of the District and the assessment payers to determine if adding powers will meet their needs. The Board determined that there was not enough support to pursue powers for the November 2022 General Election. The Board will study the need for other powers and make necessary connections with the County ahead of the 2024 Election and strive to present a referendum for a new power to the voters during this election cycle. Recently, there is renewed interest in adding street lighting powers. An inquiry to Lee County Commissioners by Commissioner Bonacolta has revealed that there is interest in moving that forward following the current streetlighting construction phase. **Objectives and Strategies: A2c.**

E. THE ECONOMY

The nation and the residents inside of our District had been decimated by the housing slump from 2007 to 2012. This led to many foreclosures and up to 6% of uncollected assessments. Some residents experienced higher property taxes and all faced higher fuel prices, and moderate inflation. From 2014 to 2024, the economic outlook has greatly improved. The vast majority of delinquent assessments have been paid, housing prices have increased significantly and unemployment has decreased. Construction is on the rise and our population is at 135,000. There are some experts that believe that there will be a recession in the near future. According to the Lee County Community Development Office, during March 2025, contractors pulled 394 permits to build single-family houses collectively valued at about $76.3 million in Lehigh Acres. That compares to 314 permits issued in March 2024 and 230 issued in March 2023, according to the Lee County Department of Community Development. There are mixed signals from the economy. The signals are split right between local and the federal level. From the local level, the housing market is booming, wages are on the rise and there are many job vacancies. On the federal level, the housing market is crashing, interest rates are holding at a high level and inflation is increasing faster than any time in the last 35 years. Unfortunately, the influx of people moving to Florida and inflation are driving up the cost of construction for new projects. In 2026, the war in Iran,

tariffs the war on cartels and other issues has the economy reeling. Time will tell whether these changes will create a stronger or weaker economy.

LA-MSID has held steady the percentage for uncollectable assessments in the 2024/2025 taxes and has a surplus of revenue from 2024/2025 and Budget to actual reports indicate that staff had spent significantly less than budget. This can be used for future needs, i.e.: construction, land purchase, etc. Over the last couple of years, hiring has been difficult and employee wages for new hires have increased significantly. The economy is in flux which could put a strain on our budget. **Objectives and Strategies: A.1.e**., **A.2.a., A.2.c., F2c**

F. BANK, STATE AND AGENCY FUNDING

Bank funding has not been an issue of late. State funding through appropriations and grants have been so strong that LA-MSID has not applied for a loan since 2012. SFWMD, FDEP and state appropriations grant programs have been very well-funded, due to a revenue surplus. The State of Florida has created funding sources for stormwater projects through changes in the constitution and other means. The District has receive funding for the ROBUST and Sinkhole projects from the legislature, pending the Governor's ability to veto. The District applied for Federal grants in the past and plan to apply for more as they become available. The District also received a $15,500,000 Governor's grant in 2024.

*LA-MSID staff must stay in compliance with its existing loan and grant agreements and should also attend any educational opportunities offered by the funding sources in order to stay current**.** The Board and staff will continue efforts into improving our budgeting format to satisfy lenders changing requirements. The District had secured a low-cost loan in 2012 to refinance our campus construction. Cooperative grant opportunities from other agencies are becoming available because of forced planning efforts due to the poor economy and "out of the box" thinking by District staff.* **Objectives and Strategies: A2a**

THREATS (External)

1. LABOR RELATION ISSUES

A. Union-Management Conflicts

LA-MSID Board and staff have worked hard to provide a fair labor contract for the employees and the assessment payers. A delicate balance must be maintained in the future. The District had negotiated a new 3-year contract for FY24-27. The contract is coming up for negotiation again in February 2027.

The Board and staff must maintain open communication with union representatives and shop stewards while staying in compliance with the current Union Contract. Maintenance of a well-trained, educated, content and hard-working workforce is essential to LA-MSID, while providing salaries and benefits comparable to other agencies that have the same general mission and/or activities. **Objectives and Strategies: A.1.a**.

2. REGULATIONS/UNFUNDED MANDATES

A. Loss of Chemical Labels or Availability/New Non-Native or Invasive Plants

There are several EPA approved chemicals that LA-MSID currently uses to combat undesirable vegetation in our canal system. Chemical companies must spend big budgets to maintain the testing needed to continue to sell their products. Sometimes they determine that it is not worth their efforts, or they realize that they are a sole-source provider and raise their price to a point that LA-MSID cannot afford the chemical. The EPA has required chemical manufacturers to change their safety labeling programs. This changes the National system of MSDS sheets to a Global Harmonized System (GHS) known worldwide as SDS sheets. These changes alone will have a negative impact on the cost of chemicals in the future. Southwest Florida's climate is ideal to support new plants as they are introduced to the area. Several species have been running rampant for years. Glyphosate and its potential link to cancer and its ability to convert into an environmentally damaging form of phosphorus is still a concern. If the EPA label was revoked for Glyphosate, staff would have to find new method to keep evasive vegetation in check.

LA-MSID must adapt as needed, in order to utilize the least expensive and effective chemicals available, to maintain the canals. Staff will use the three-quote process to obtain the lowest chemical price available. Chemical pricing has become so volatile over the past 5 years that manufacturers are pulling chemicals off of active bid sheets. Staff also looks at application rates and the duration of plant control of all chemicals. This helps to determine which will provide the most cost effective and efficient means of plant management available. The chemical manufacturers will hopefully continue to develop products that will be safe and effective to combat the need to control these new non-native or invasive species. **Objectives and Strategies: F3b**

B. Changes in Legislation

Special districts and their issues periodically come within the sites of legislators that wish to slash the overall tax burden for tax payers. Other types of governments have been forced to limit their revenues by new legislation. The legislature has not limited the Lehigh Acres Municipal Services

Improvement District's ability to raise revenues and to pay its bills. Additional unfunded mandates, may be enacted by the Florida Legislature or the Federal Government and may fiscally or otherwise impact the District, either intentionally or as an unintentional consequence. This year the legislature increased sovereign immunity limits from 200/300K to 350/500K. Our insurance rates will be increases accordingly.

Staff and the Board need to monitor the bills that are presented during the legislative session in an attempt to impact the outcome for the residents of the District. We can do this by staying engaged with the Florida Association of Special Districts, the Florida Stormwater Association and through our District Counsel. **Objectives and Strategies: A.3.b.**

C. Federal Government Shut Downs

Major differences between democrats and republicans in Congress have caused lengthy shut downs in 2025 and 2026. Several departments are unfunded and must close down or operate at a much-reduced capacity. This has a direct effect on grant programs, regulatory oversite and permitting and training opportunities. Specifically, programs, such as the one operated by CHNEP (Coastal & Heartland National Estuary Partnership) have grant funding delayed. LA-MSID projects under design will experience a significantly lengthy permit approval process, delaying construction. FEMA disaster training is not available.

Staff and our professional services must act swiftly when the government is open, to satisfy our needs as quickly as possible. If there is any opportunity to self-fund some activities without losing grant funding, that should be explored. **Objectives and Strategies: A.1.f**

3. FINANCIAL CHANGES

A. The Bond Market –If inflation continues to moderate, the bond market will continue to moderate. In 2026, the economy is still stable, the bond market will be favorable. Loans have been the tool of choice for LA-MSID, but bonds should be considered in the future.

The Board of Commissioners and staff should perform a cost-benefit analysis before authorizing capital projects. They should consider all avenues for funding. LA-MSID should examine the Bond market, bank loans, and push hard for grants and budget requests from the legislature to help fund the projects. **Objectives and Strategies: A.1.e.**

B. **Fuel Costs** – LA-MSID can be affected by fluctuating fuel costs as much or more than other entities, because the heavy equipment and vehicles used in our daily operations consume large amounts of fuel. World political and weather events have increased the price of fuel. Fuel prices are at their highest levels since the pandemic started. LA-MSID needs to maintain its current fuel capacity or more in the future in order to maintain its current level of service. The District invested in a new fuel monitoring system in FY 21-22.

LA-MSID considers fuel efficiency when purchasing new vehicles and equipment. Alternative fuel options will be purchased when practical. LA-MSID is maintaining a fuel station on site that has made the staff even more efficient. Budgeting practices should allow for more than modest increases in fuel costs. New reporting requirements are requiring more fuel pumping accuracy. **Objectives and Strategies: A.1.e.**

C. Rising Construction Costs – Due to various pandemic, geopolitical, and supply and demand issues, construction costs have skyrocketed. What you could have built five years ago for $100,000

would cost you today from $150,000 to $175,000. Obviously, LA-MSID will not be able to complete the volume or complexity of projects in the future, unless some of these effects are reversible.

The District's General and design engineering companies, led by AIM Engineering, have an increasingly difficult job in projecting project costs. AIM Engineering and LA-MSID staff will be very conservative when planning projects until the rising costs de-escalate. The District has continued to seek funding through the Florida Legislature and available grant programs to fund these projects. **Objectives and Strategies: A.1.e., A.2.c.**

4. CHANGES TO DISTRICT MAKEUP

A. Population Growth

The population within LA-MSID's borders was approximately 87,500 in 2010 and has increased. Lehigh Acres' population has been estimated by BEBR of the University of Florida for the year 2018 at 135,000. The actual census from 2020 reported a population of 115,000, which is underwhelmingly questionable. Certain segments of the population may be unwilling to be counted. In 2025, Lehigh Acres' population may stand at 150,000 or even more! Existing and new real estate prices are at an elevated level, but, regardless of this fact, there are many new housing starts. If the population continues to grow, the workload for employees will increase. Also with growth come more schools. As the School Board buys more land for new schools, more assessment revenue is lost, as we cannot assess school property.

LA-MSID has considered a "built-out" scenario to determine storage priorities. Land acquisition priorities must be established. Design and construction can occur subsequently as our population increases. LA-MSID could make necessary land purchases while land prices are low and the population is not experiencing large growth. If LA-MSID delays land acquisition, LA-MSID may have higher land costs in the future. LA-MSID's Capital Improvement Plan can slow the planning for its immediate stormwater storage needs, while closing the need for storage for a current 100-year storm. The staff and Board must continue to plan for its future needs, while taking advantage of opportunities. **Objectives and Strategies: A.1.e, A.2.c.**

B. Loss of Access to Maintain ROWs

As Lehigh Acres "builds out", LA-MSID will lose access to some of its rights-of-way. Currently, District staff can access waterways and easements through adjacent vacant lots. Maintenance areas with limited access will cost LA-MSID more to maintain.

Staff must continue to perform a District-wide assessment to determine areas that will have no maintenance access and what the best solutions are for providing service. The District should study the District Map and identify areas where we have no, or limited easements/right-of-ways and establish a plan to gain access. Annual reviews of canal ROWs will identify encroachments. **Objectives and Strategies: F.3.a., F.3.j.**

C. Annexation into District Borders

The City of Fort Myers borders a large portion of LA-MSID's western boundaries. Lehigh Acres' Industrial Park is in LA-MSID's boundaries and is a possible target of annexation.

LA-MSID must be aware of any attempts by the City of Fort Myers to annex inside LA-MSID and to become active in dialogues to determine the best course of action. HB 1255 by Matthew

Caldwell has a non-annexation provision to protect LA-MSID in this regard. **Objectives and Strategies: A2j.**

D. Creation of a Stormwater Utility

In the past, Lee County has proposed a stormwater utility for the unincorporated area of the County that could nullify Lehigh Acres Municipal Services Improvement District's authority and would potentially dissolve LA-MSID.

LA-MSID must stay involved in any discussions that Lee County may have, involving the creation of a stormwater utility in Lehigh Acres and to help determine the best outcome for Lehigh Acres Municipal Services Improvement District and the residents of Lehigh Acres. **Objectives and Strategies: A2j.**

E. Incorporation

There has been in the past and will be future attempts to incorporate the Lehigh Acres area. The creation of a city may include the absorption and dissolution of the Lehigh Acres Municipal Services Improvement District, if a public works department is established.

LA-MSID must keep a vigilant eye open for attempts to incorporate Lehigh to make sure that the new charter does not include the immediate and/or total absorption and dissolution of the Lehigh Acres Municipal Services Improvement District. The Lee County Legislative Delegation and LA-MSID's Commissioners had stated in a resolution that the road to incorporation runs through LA-MSID. The District will be considering that option over future year, although there is not a political will to do that, of late. **Objectives and Strategies: A2J.**

F. Community Development Districts

Community Development Districts (CDDs) can hold almost as many powers as a city and have been reasonably easy to create. They can be created by Lee County Government inside of LA-MSID's boundaries, if they are under a certain acreage threshold or otherwise created by the state. CDDs can erode LA-MSID's powers. As of 2025, there are few parcels that would be large enough, if developed, to be a Community Development District.

LA-MSID must stay in contact with Lee County (creator of most CDDs) and local legislation for attempts by developers to create CDDs in Lehigh Acres and to do what is necessary to guarantee that they do not conflict with the powers of the District. **Objectives and Strategies: A2j**.

5. ENVIRONMENTAL CONCERNS: NATURAL OR MAN-MADE

A. Water Quality Issues

Different components from the Clean Water Act of 1964 are moving ahead simultaneously. Total Maximum Daily Loads (TMDL's), Basin Management Action Plan (BMAP) and the Numeric Nutrient Criteria (NNC) for Water Quality will be imposing standards for sampling and/or an impetus for capital projects in the future. The District's water quality is very good, but the standards may be set so low that we can't meet them. The Basin Management Action Plan (BMAP) may be so rigid that we may have to improve our water quality, even if we meet the water quality standards. The potential unfunded mandate may require that capital dollars be spent, which can severely affect our assessment rates and the ability for our residents to pay them.

LA-MSID will stay involved in the process of rulemaking by EPA and FDEP to both lessen requirements while ensuring that water quality standards are fair and obtainable. Future budgets may have to be adjusted to reflect the addition of water quality projects, if very strict standards are adopted. Currently, the District has met the BMAP requirements for the first five-year period plus, on the estuarine portion of the Caloosahatchee River. Future requirements will have to be met for the Freshwater portion of the Caloosahatchee River and any NNC requirements on state-wide waterbodies. Community outreach and education efforts are necessary parts of meeting these requirements. **Objectives and Strategies: A2b, F1a, F3c, F3g, F3h, F3p.**

B. Natural Disasters

As evidenced by Hurricane Irma (2017), Ian (2022), Helene and Milton (2024), the region could have been better prepared. The staff's internal disaster plan contemplated the vast majority of issues and situations that a hurricane can cause by having immediate available data on the operational status of our many water control structures in an easy to read, consolidated form. We also have redundancy in communication capability. Finally, we do have emergency backup power in a ready to use form with automatic switchover capability. Satellite internet, satellite phones, and a manual full of contact information are readily available in an emergency. These updates faired pretty well during Hurricane Ian.

Staff will research the possible solutions for these and other minor issues. The Hurricane Manual needs to be updated yearly to include procedures based on our experiences. **Objectives and Strategies: F4a, F3q, F4a.**

C. Pandemic, Epidemics and Other Outbreaks

Local emergency preparedness plans at the Municipal District have traditionally focused on response to natural disasters, such as hurricanes. Yet historically, the most significant threat to the world's populations has not been natural disasters, nor war, but disease. Because influenza pandemics are recurring events, it is not a question of whether there will be another pandemic; it is only a question of when the next one will occur and how severe it will be. As we learned at the start of 2020, when a pandemic strikes the trajectory is everchanging and rapid.

The District needs to create a Pandemic, Epidemic and Other Health Outbreaks Incident Plan to define the non-medical issues and challenges associated with a crisis of this nature. The Plan will help the District ensure essential services can be maintained, the best degree possible, in the event of a pandemic or other such health event. This plan supplements the Municipal District's Policy and Procedures Manual and Emergency Support Functions already in effect. **Objectives and Strategies: F4b.**

D. Insurance Liability Issues

With a 100-square mile District, it is hard to monitor activity on all district lands. We do not have enforcement powers, and if someone is "caught in the act' of engaging in prohibited activities, they have usually left the scene before Sheriffs arrive – if the Sheriffs are even available to come. Despite the District's best efforts to partner with agencies to curtail the use of ATVs – they are still running amuck. The District has seen a spike in insurance claims by individuals using atvs on district lands- an illegal act. To curtail this, the District may one day in the future need to put in thousands of signs throughout the District at structures and along ROWS. Also, some issues to examine with developments near District bridges that have changed traffic patterns. In 2023, legislation was approved that improved the tort law and the ability to win lawsuits when the plaintiff is 51% or more at fault. In 2025 legislation failed that would have relieved special district's liability on District lands. Maybe 2026 will provide a better outcome.

The District should continue to monitor ATV activity on District land and assist officers who do catch individuals (officers usually need a District employee to trespass an offender). Efforts should be made to fight the ATV claims through our insurance company, if possible. Bridges and traffic patterns should be reviewed and documented for the future replacement and subsequent traffic pattern change that could occur at that time. **Objectives and Strategies: A3b.**

Program Objectives, Strategies and Goals

Goals: are statements needed for every key result that LA-MSID deems necessary for success.

Objectives: are strong, target ends for stated goals or final results of a strategy.

Strategies: are a pattern of measurable actions and resource allocations designed to achieve the objectives of the LA-MSID.

Tactics: are the tools or the action items of the plan

ADMINISTRATIVE GOALS

Goal A1: To provide administrative staff the resources necessary to complete the mission of the Board of Commissioners.

OBJECTIVES:

A.1.a: The District must create or modify policies to ensure that the District is in compliance with the changing times.

Current, accurate, fully encompassing policies are essential to provide staff with the tools to operate, regulate and implement the Board's intended approach when dealing with the public and employees.

Strategy: Staff needs to either create, review and/or update at least three policies, Collective Bargaining Agreement or Employee Manual for Non-Bargaining Unit in this fiscal year.

Strategy: Staff should create internal SOPs forms and three SOPs to help streamline efforts in this fiscal year.

A.1.b: Recruit, develop, and retain a highly trained and safe workforce with the budget available.

LA-MSID will provide necessary training to all District employees in Administration, Finance and Field positions. LA-MSID continues to invest in employee professional growth and development through continuous training, certifications, education, and professional accreditation. LA-MSID strives to cultivate employees' understanding of District operations and their role in the agency's success. Management should continue their professional growth and development and receive accounting, human resources, management, record keeping and public relations training, and other such trainings, on an annual basis. Due to

the current economic situation, the workforce shortage and the impending $15 minimum wage is a few years out, there is already a push for increased wages.

*Strategy: All employees will receive at least one training session during this fiscal year. LA-MSID will provide a fair and current collective bargaining agreement**.** The District will continue to provide annual harassment training, spill response and health and wellness presentations/training.*

Strategy: LA-MSID will strive to provide competitive pay and benefits that recruits and retains top talent within the available budget and will review job descriptions in FY 2026/2027 to ensure they are up-to-date for the evolving market. Bi-annual Salary Surveys/Job Description Audits to ensure we are remaining competitive.

Strategy: LA-MSID will strive to expand employee diversity, while hiring the most qualified candidate.

A.1.c: Strive to maintain low personnel expenses.

The District can save money by not allowing employees who have been discharged for "just cause" collect unemployment.

Strategy: The District will have no more than one new paid unemployment claim in fiscal year 2026/2027.

A.1.d: District Staff will use the campus to be as efficient and effective as possible.

The Commissioners have provided a modern campus that provides utilitarian administration space, a multi-purpose room, up-to-date maintenance facilities, and a fuel station. However, the site is not conducive to keeping our equipment out of the weather.

Strategy: Management and support must correct any damage to campus facilities immediately. Regular maintenance must be performed to ensure that the campus retains its "new" appearance and workability. Staff will find proactive solutions for lack of space for equipment storage and staffing.

- *The District will rehab the internal storage space in the Serrano Building as an in-house project to allow for more on-site storage for equipment needs.*
- *The District will look for grant funding for expansion of the building and storage*
- *The District will re-surface all asphalt areas within our campus boundaries.*

A.1.e: District Commissioners and staff must expect up-tics and downturns in the economy.

The economy is going to experience change over time, to the good and to the bad. Sometimes a bad occurrence (such as a Hurricane Ian event), can cause LA-MSID to spend some non-budgeted funds. This can be transformed into an overall good by tracking your costs for reimbursement from FEMA.

Strategy: the Commissioners will maintain non designated reserves above the 50% of expense spending, regardless of the lower-end target being 25%.

A.1.f: District staff and professionals should expect federal budget shut-*downs during periods of political strife.*

We are in a period of vast political differences between the democrats and republicans that does not appear to be letting up soon. We have many projects that will be in need of federal permitting in the next year, i.e. ROBUST, Frank Mann Preserve and the Leeland Sinkhole.

Strategy: Staff and professional must be expeditious in periods when the federal government is open. All federal permits must be filed for ROBUST, Frank Mann Preserve and the Leeland Sinkhole in FY 2026.

Goal A2: Provide for the lowest possible assessment rates, while providing the necessary services for the residents inside and downstream of the LA-MSID borders.

Objectives:

A.2.a: Strive to increase revenue for capital projects and/or maintenance.

The District has been very creative in finding new revenue sources in the past, for capital projects and/or maintenance. We need to look for new sources such as cellular towers, tree and mulch sales companies or fees for discharges from outside of our borders. The District has been successful finding for design and construction funds for Section 10. Grants were secured from FDEP and fees were secured from FDOT for West Marsh project, Phase III and for CREST, Phases II and III, the Leeland Bottomless Lake and ROBUST. The development in Lehigh Acres is continuing at a rapid pace, this increase in impervious areas impacts how our system works. The opportunity to secure large parcels to secure the necessary stormwater storage is quickly lessening and in 10 years' time may be non-existent. The District has a way to go before achieving the storage needs addressed in 2007 and those needs have only increased with the increased development. The time is now to protect our natural resource and our community.

Strategy: Staff will identify one additional alternative revenue source in FY 2026/2027. Staff will hold strategy meetings and may attend seminars relating to alternative revenue strategies.

A.2.b: Projects identified in the Capital Improvement Plan should continue to progress forward and projects that are designed and permitted should find a revenue source to fund construction.

Projects such as Frank Mann Preserve/Section 10 and CREST are either under or nearing construction and need to continue that process. Other projects should move forward in the queue into design and permitting to be included in the next wave of "shovel ready" projects. Several projects have been outlined in the Post-Irma Report paid for by Lee County and many will be incorporated into our plans. The June 2024 unnamed storm brought significant rains and highlights areas of Lee County's system and ours that need improvements.

Strategy: Staff will continue the construction process on all projects funded by outside sources. Frank Mann Preserve/Section 10 is funded. CREST is funded and in progress. ROBUST, Phase II & Phase III are funded. Additional funding for the Leeland sinkhole should be pursued.

A.2.c: Pursuit of Additional Powers/Authorities

On June 10, 2015, ECWCD was dissolved and LA-MSID was created. The powers of sidewalks, lighting, planning and water and water and sewer can be exercised through an agreement with Lee County and a majority vote from the voters in a referendum. If LA-MSID acquires new powers and needs to use assessments for a new revenue source, the District would have to amend its Water Control Plan. This would then be an ideal time to pursue some of the additional powers, as the cost for a Water Control Plan would not be required solely for those powers. In 2018, the District added Community Signage to the active powers. Due to COIVD-19 the installation of the monument on Lee Blvd. was delayed. The Board authorized a feasibility study on the water and sewer powers. Prior to COVID-19, the Board began drafting a request to Lee County for formal consideration. Currently, there is a political stalemate on the issue of new powers for LA-MSID.

Strategy: The District will observe conditions within its borders and the opinions of the residents to determine the optimal time to begin the process to pursue additional powers. This could make the willingness to gain new powers more palatable. The District will continue to study and work with the County to move forward on street-lighting power in 2026.

A.2.d: Financial staff has to remain diligent in their analysis of the District's financial records and the ever-changing rules of accounting.

Strategy: Maintain an unqualified audit opinion for our FY 2026/2027 Annual Financial Audit.

A.2.e: LA-MSID will remain to be a viable, independent, proactive, and pertinent agency in Lehigh Acres.

As the population continues to grow: (1) more impervious surface is created and a greater need for stormwater management will exist, requiring proactive planning today for a safe and secure

future for tomorrow (2) a potential increase in the restructure of existing government agencies may arise.

Strategy: LA-MSID should stay strong, stay connected to all surrounding and related agencies and continue to support FASD and their lobbying efforts.

Strategy: Efforts to protect the Leeland Bottomless Lake should continue. Since the Governor denied the 2024 appropriation for the improvements for the lake parcel and the interpretive center purchase, LA-MSID should move ahead with a new planned building on the 19-acre site or the older church building purchase in that priority order, as determined by FDEP. As of July, 2025, The Legislature and the Governor have appropriated $2.2-million to the Purchase of the interpretive center and restoration and the creation of the park site.

A.2.f: Follow the Succession Plan

Staff skill-sets have improved vastly over the last 10 years. Consequently, when a staff member is lost, there is a substantial learning curve for the new employee, hired from the inside or outside. Staff should make all efforts to have an understudy cross-trained to eliminate or lessen the impact of losing a key employee.

Strategy: LA-MSID has completed the Matrix Consulting Group's study process. Staff should follow the new policies for the Succession Plan in this fiscal year, in anticipation of meeting all goals within a reasonable amount of time.

A.2.g: Automate routine reporting functions. Operational Financial & Human Resources reporting functions for the most part have been done manually and automated reports had some of the necessary components missing. Staff has corrected some of these reports but there remain a number of reports that need to be revised to better suit reporting needs.

Strategy: LA-MSID should review and/or program one report functions in the fiscal year.

A.2.h: Evaluate Internal Growth Solutions

LA-MSID has become self-sufficient when it comes to providing for outside events and flexibility in the multi-purpose room. Staff has been creative when storing the additional materials needed for those events. Should the District procure additional items or hire additional administrative staff, office space will become an issue. All conceivable air-conditioned space is being used and all consolidation options have already been exhausted. Staff has secured on-site, air-conditioned storage.

Strategy: Staff should explore all necessary storage space expansion options in this fiscal year. Creating a plan to expand the District headquarters may be necessary sooner rather than later and would allow for both growth of staff, storage and an improved emergency operations center.

A.2.i: LA-MSID should use the time management system to its capacity.

Staff can now track time worked on culvert projects by using TMS to clock into specific projects and hours worked can be tracked. This has cut down time spent transferring hours into the payroll system.

Strategy: Continually implement updates to the TMS to include better reporting functions and mobile use.

A.2.j.: Maintain LA-MSID's identity as a hometown special district as long as it is necessary.

There may be a threat from the outside that could change the identity of the District. Other forms of government that may attempt to usurp our authority are Annexation by an adjacent city, incorporation of a new city, a county may attempt to create a stormwater utility or a community development district may be created within our borders.

Strategy: Staff must continually monitor the organization or re-organization of the agencies within and outside of our District boundaries. We must also stay financially fine-tuned as to not attract the hungry wolves.

Goal A3: Expand and Enhance Community Outreach and Engagement

The Municipal District should be a visible and recognizable with stakeholders statewide and locally – within Lee and Hendry Counties and especially with the residents of Lehigh Acres.

OBJECTIVES:

A.3.a: Build External Customer Relationships & Awareness

*Strategy**: Staff should continue to increase local, related information dissemination and communication and engage our community on the importance of the District's services through informative articles, social media, newspaper, events, and other avenues.*

Strategy: LA-MSID will hold one public relations event for students, one community event, and will make presentations at five organizational meetings and/or be actively involved in the community in FY 2026/2027.

A.3.b: Maintain a strong reputation in the community by expanding presence in the community, both in-person and virtually, to ensure residents have accessibility to their local government.

Strategy: Assess and create opportunities for stakeholder awareness/engagement. An opportunity to conduct targeted outreach to citizens who may be impacted by the Municipal District construction projects.

- *Meet educational water efficiency Best Management Practices (BMP) through school educational initiatives*
- *Continue to host the annual Wings Over Water Festival community event.*
- *Establish a community event for the Sinkhole property to engage and educate individuals, help support the growth of this parcel and help create a sense of community,*

Strategy: Assess opportunities to increase constituent awareness. Staff should maintain membership and stay active with legislators, local civic and professional organizations/groups; apply for industry awards in this fiscal year.

A.3.c. Maintain Necessary Amount of General (Liability, property, vehicle) Insurance while Actively Trying to Limit Liability on Public Lands and Workspaces.

Strategy: The District will review all assets (automobiles and equipment, buildings, bridges, and water control structures) on a yearly basis to ensure that we have coverage for the entirety of them.

Strategy: The District should approach Lee County regarding Williams Ave. and their willingness to take over ownership and maintenance responsibility.

STORMWATER OPERATIONS

GOAL F1: Operational Optimization - Ensures ongoing, timely, cost-effective, reliable, and sustainable performance improvements in all facets of its operations.

OBJECTIVES:

F.1.a: LA-MSID will adhere to the latest Five-Year Capital Equipment Replacement Plan.

Adherence to this plan is necessary to ensure that the District's maintenance can be performed in the least amount of time with current staffing levels.

Strategy: The District will purchase all items identified in the 2026/2027 Capital Equipment Replacement Plan. Fuel efficiency shall be a strong consideration when specifying new vehicles or equipment for purchase. The Field Department will work to organizing data for vehicle use and field tracking to help provide informed decisions for maintenance and replacement.

Goal F2: Provide the infrastructure and programs necessary to deliver optimum flood protection, aquifer recharge, water quality enhancements and habitat for the current and built-out scenarios.

OBJECTIVES:

F.2.a: - The District should continue the process for design and construction of planned capital projects, in FY 2026/2027.

The design for Frank Mann/Preserve and the design of ROBUST are in progress. The District will proceed with the project when design is finished. CREST, Phase III is under construction.

Strategy: During FY2025-2026, the District should proceed with design and construction for the Leeland Bottomless Lake, Frank Mann Preserve and ROBUST. Any appliable grants should be applied for.

Strategy: Partner with local governments and the state to identify multipurpose project partnerships that reduce flooding, improve water quality, while increasing natural or augmented recharge to the aquifer, as well as saving time and resources.

F.2.b: LA-MSID should alleviate intermittent flooding on Bedman Creek.

The District needs a conveyance diversion from Dog Canal to Hendry Canal and Carlos Waterway, when Bedman Creek is at full capacity.

Strategy: The District has just about completed construction CREST Phase III. Continue to complete this project in 2025/2026. The Dog to Hendry connection has been available for use since the summer of 2024. Continue progress on the ROBUST project to provide further protection for the residents on Bedman Creek.

F.2.c: LA-MSID should fill it's employee ranks.

Staff has a saying: "Hiring employees is like getting married". It's that important to pick the right employees. The employees should be hired on merit and how well they meet our needs. If our needs won't be met, it's better that we wait for the hire with the right skills. LA-MSID has continued to elevate hiring wages to meet the needs of the economy. We usually have 2 to 4 positions open at any time.

Strategy: Staff will continue to search for the employees that meet our needs on a continual and urgent basis. The right employees may only be available for a short period of time. We strive for full employment!

Goal F3: District Field staff will strive to provide the highest necessary maintenance levels on District Lands as prescribed by the Board, the economic conditions and requested by the public.

OBJECTIVES:

F.3.a: A mowing and weed-eating strategy for District lands must be adhered to.

The mowing crews shall mow the flat areas and the slopes where LA-MSID has adequate maintenance access, District wide. This is necessary to 1) provide stability for slopes, 2) maintain stormwater conveyance, 3). Provide visibility for herbicide treatments; 4) safety; 5) water quality and 6) community pride. The weed-eating crew shall maintain slopes with little to no maintenance access that have been identified by management. The Field management staff shall continue to do their best to eliminate "down time" and keep the mowing crews operating for a large percentage of the growing season. Special projects should not cut into the mowing crew's time.

Strategy: LA-MSID will look for new strategies to complete three mows and three weed-eating circuits per year, while being quicker and more efficient.

F.3.b: Herbicides should be used at label strength to control exotic and/or nuisance aquatic vegetation to compliment mechanical cleaning.

The plant control staff should maintain LA-MSID canal and lake systems for existing and new emergent, and submersed, plants that are invasive or non-native or nuisances. Staff should provide chemical mowing and broad-leaf control on slopes and flat areas, yearly.

Strategy: LA-MSID will conduct at least two complete plant control treatments, as needed and where needed, to maintain conveyance. The Field management staff should make sure the canal inspections will be ongoing and that each canal will be assessed and treated for its individual vegetation needs. The District will stay in tune with organizations that promote the use of herbicides and manufacturers of herbicides to help to ensure that effective and cost-effective herbicides are available in the future.

F.3.c: Mechanical cleaning should be used to clean decomposed, exotic or nuisance vegetation to compliment the herbicide program.

The canal cleaning process involving the track hoes and the bulldozer clean-up, shall make the rounds through LA-MSID's entire canal and lake systems approximately every seven years, as prescribed by the NPDES Permit.

Strategy: LA-MSID will mechanically clean or inspect to determine the lack of need to clean 1/7 (approximately 14.3% or 44.43 miles) of all canals per year. We should mechanically clean or inspect to determine the lack of need to clean 5/7 of the District canals in the next five years. The Field management staff shall do their best to keep the track-hoe and dozer crews operating on canal clean out for a large percentage of the year. Special projects should not significantly cut into canal cleaning time.

F.3.d: Narrow or non-existent vehicle-accessible maintenance area on Lakes or canals.

Staff has been able to master the use of the tracked zero-turn mower performance through training and in-house modifications of the machine. That should not terminate staff's quest to find a better method to maintain these areas.

Strategy: Staff will continue to search for new methods and equipment that can make the maintenance in these narrow right of ways, easier, safer and more efficient. Review the District maps to see if there are areas in which we can purchase land or create easements for access.

F.3.e: Staff had gotten behind in preserve maintenance and needs to catch up.

The District needs to allocate more staff that may include temporary workers to reach this goal. LA-MSID has added 205-acres of preserves in the West Mash and 25-acres in CREST, Phase II. Soon another 75-acres will be added in CREST, Phase III and 560-acres in Frank Mann Preserve (GS 10) and the 19-acre Bottomless Lake parcel.

Strategy: LA-MSID will remove exotics on 10 non-maintained acres this year and for the next five years, while not losing control of existing acres cleared since 2008. Continue progressing on Lennar's responsibility to provide a one-time removal of exotics in the Savanna Lakes preserves.

Strategy: LA-MSID will explore sub-contracting yearly exotic maintenance in our preserves. One new contract should be awarded as a test-case.

F.3.f: LA-MSID will continue the culvert replacement program. Corrugated metal pipe culverts are failing at 5 to 6 per year and should fail at an increasing rate over the next 15 years.

These "rebuild" projects must be completed to "keep up" with the potential growing amount of failing culverts District–wide.

Strategy: Field staff will replace an average of five or six more culverts "in house" each year, or provide the equivalent in in-house construction projects.

F.3.g: The District will fully understand and comply with the current and future requirements from State and Federal authorities on water quality law and issues.

The District has had 8 out of 9 years without comments on our annual NPDES Report. There was one comment last year due to a formatting error.

Strategy: Strive to have zero comments on our Annual NPDES Report, and be the most compliant and diligent co-permittee on the Lee County NPDES Permit.

F.3.h: LA-MSID shall maintain the integrity of our field data and will keep our telemetry sites operating at their full capacity.

The telemetry employees will fully test each site and will comply with all FCC regulations. Data will be secured in newly-developed maintenance and work order software.

Strategy: Staff shall continue to work to secure additional maintenance and work order software that is user-friendly, efficient and comprehensive in 2026/2027 In areas of vehicle/equipment usage, fuel usage, chemicals, Requests for Actions, etc.

F.3.i: The District's bridges need to be maintained in the highest possible condition.

Our 22 bridges were built from 1958 to 1992. Every two years, the State (FDOT) hires an engineering firm to inspect our bridges. We will have the 2024 report that identifies any needed work or deficiencies. The good news is that we have had no serious problems with our bridges. All identified items in the latest report can be repaired with in-house staff.

Strategy: The District shall make repairs as needed. LA-MSID secured a funding source, to not only self-insure our bridges, but to also provide funding for minor & major repairs, replacement and design services. Discuss with Lee County the increased use and issues with William's bridge.

F.3.j: The District will continue to clear its rights-of-ways.

The District has identified all uncleared right of ways. With the advent of GIS and the Lee County Property Appraiser Site, we can easily identify our rights-of-ways.

Strategy: The District will clear one (1) mile of right-of-way, or the equivalent of 3-sq/acres this year.

F.3.k: LA-MSID must limit equipment down-time to a manageable level.

The main enemy of the District's maintenance program is down-time. Downtime can be created through absenteeism, organizational issues and equipment malfunctions. Equipment malfunctions can be caused from poor design, careless operation, poor maintenance or heavy use under harsh conditions. As we add more to our fleet, we need to increase our data collection and monitoring. Consider sending routine services outside for repair to free up mechanic times.

Strategy: The mechanics will service all vehicles when scheduled within a 1,000-mile window prior to and after the due date and report any signs of careless operation or abuse.

F.3.l: The District shall provide easier and safer maintenance access roads along our infrastructure.

The District's access roads are often blocked by a Lee County road ditch. That may force staff to back up their equipment and find an alternative route to continue their work. A considerable amount of time is lost because of this. For many years, staff had been installing ADS pipe across the ROW, to provide safe crossing for our vehicles and equipment. Because of Hurricane Irma, staff has not been able to provide this service for the last few years.

Strategy: The District will install 10 to 30 pipes in Lee County outfall ditches or the equivalent of turn-arounds or future access points, this year.

F.3.m: LA-MSID's infrastructure (culverts, weirs, buildings, etc.) needs to be inspected on a regular basis.

The District needs to inspect the District's infrastructure to protect our investment, the resident's properties and the water resources of the District. Our NPDES permit also requires regular inspections.

Strategy: District staff will inspect at least 25% of the culverts, water control structures, parks and buildings annually or comply with new state requirements.

F.3.n: Providing good resident service is essential for the District's image.

Resident issues are called in on almost a daily basis. These issues are logged in a database by issue and resolution to ensure that all issues are resolved.

Strategy: The staff shall resolve all known resident issues prior to a resident coming to a Board Meeting, if it is within staff's power.

F.3.o: The District's water control structures (weirs) need to be kept in the highest operation readiness condition.

Staff needs to look at items such as structural integrity, painting (where necessary) and reconditioning of all moving parts.

Strategy: Staff will recondition two water control structures per year, for the next five years.

F.3.p: Trash on District lands continues to be a big problem and must be kept under control.

Because of remoteness and the fact that water bodies are at a lower elevation than surrounding lands, our infrastructure is a collection point for illegal dumping along with windblown garbage and floating trash.

Strategy: The District will remove at least 50,000 pounds of trash in FY 2026/2027.

F.3.q: Wash-outs in our canal system must be corrected within a very narrow window because of their ability to disrupt conveyance and increase our liability.

Washouts are generally caused by the loss of bank stabilization (usually vegetation). Vegetation can be destroyed by poor mowing techniques, ATV and four-wheeler traffic, misuse of chemicals and severe weather events. The resulting wash-outs can become rather large, allowing for poor drainage along with being a vehicle and pedestrian safety hazard. Hurricane Ian had exacerbated this situation and has created approximately 150 additional wash-outs. Staff has totally caught up.

Strategy: Wash-outs will get repaired ASAP and there will be no reported accidents, injuries or flooding due to washouts.

F.3.r: Special Projects Must be Completed Yearly.

During the dry season each year, the District staff re-gears itself to complete necessary special projects. The projects are identified by October prior to dry season.

Strategy: Staff shall complete at least 90% of special projects identified in the October Gantt chart prepared by the District Manager. Special projects should not cut into mowing, spraying or mechanical clean-out goals.

F.3.r: Streamlining of Reporting

The District has decades of paper logs that need to be made digital. The district hired a professional to create a database to manage field data – RFA, Spray and Mowing Reports, but the creation of the databases has been moving slowly.

Strategy: Work with designer to fix the identified issues in the first database and begin design of additional databases, and a return of paper records for vehicles, fuel, chemicals, etc. should be implemented while the technology is being developed or purchase an all-encompassing program.

Goal F4: Improved Emergency Response Preparedness

F.4.a: High-level of Hurricane Preparedness.

Actual Hurricane experience learned from the direct hit from Hurricane Irma and Ian has caused staff to revise our methodologies in preparation and our actions during/following an event.

Strategy: Staff will annually review the Hurricane Manual prior to Hurricane Season; will host a Hurricane Training exercise and will ensure safety supplies are in stock to the best of the District's ability.

F.4.b: Preparing for Health Emergencies

The COVID-19 pandemic caught many agencies off-guard. It has been 100 years since a pandemic had occurred, and guidance changes depending on what type of disease/virus is spreading. The District worked with Labor Counsel and District Attorney to formulate understanding of best practices. The District Attorney steered staff away from creating policies to navigate health crises.

Strategy: Maintain a list of PPEs that would be multipurposed for any type of crisis and prepare/maintain emergency kits that can be placed in storage and accessed when needed in 2026/2027. Create and maintain an outbreak, epidemic and pandemic policy.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: 2027 Capital Equipment Purchasing Plan

Meeting Date: June 15, 2026

Agenda Item # 3D

☐ **CONSENT** ☒ **ACTION** ☐ **OLD BUSINESS** ☐ **NEW BUSINESS**

Request Initiated By: ☐ **COMMISSIONER** _____ ☐ **ATTORNEY**

☐ **BOARD** ☒ **MANAGER** ☐ **ENGINEER** ☐ **AUDITOR**

Recommended motion: Move to approve the 2026/2027 Capital Purchasing Plan

What the action accomplishes: Provides for a year-by-year plan for equipment and vehicle purchases, to be added into the FY 2026-2027 District Budget.

Fiscal Impact: Costs: $

Staff comments: We have provided a simpler, consolidated summary sheet for your preparation.

5 Staff review and recommended approval:

☒ **MANAGER** ☒ **ASSISTANT DISTRICT MGR**

☐ **ATTORNEY** ☒ **FIELD DIRECTOR**

☐ **ENGINEER** ☒ **FINANCE DIRECTOR**

6 Board Action:

☐ **APPROVED** ☐ **DENIED** ☐ **DEFERRED**

LEHIGH ACRES - MUNICIPAL SERVICES IMPROVEMENT DISTRICT
EQUIPMENT REPLACEMENT SCHEDULE
FOR FISCAL YEAR ENDING SEPTEMBER 30, 2027

Equipment Tag #	Year	Make	Description	Acquisition Date	Purchase Price	Use	Surplus	Capital Item	New or Replacement	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
										$ 372,050.75	$ 449,646.00	$ 490,000.00	$ 625,000.00	$ 786,000.00
Fleet Vehicles														
126	2006	Ford	F-250 4x4 (Weed Eating)	11/29/2005	$28,449.00	Weed Eating	No	Yes	Replaced by 149			$ 55,000.00	-	-
127	2007	Dodge	Ram 2500 4X4 (Spare)	1/26/2007	$20,869.00	Transportation	Yes	Yes	Replaced 112	-	-		-	-
128	2007	Dodge	Dakota 4x4 - Club Cab (R/W)	3/21/2007	$18,767.00	Transportation	Yes	Yes	Replaced by 139		-	-	-	-
129	1977	GMC	Tanker Truck	3/29/2008	$1,800.00	Transportation	Yes	Yes	New	-	-	-	-	-
130	2008	Ford	Escape Hybrid AWD (Admin.)	4/24/2008	$24,511.00	Admin.	Yes	Yes	New	-	-	-	-	-
131	2008	Dodge	Ram 4500 (Mechanics Truck)	7/9/2008	$66,746.00	Mechanic	No	Yes	Replaced by 146	-	-	-	-	-
132	2009	Ford	F-150 4x4	3/18/2009	$22,844.00	Telem.	Yes	Yes	New		-	-	-	-
133	2009	Dodge	Ram 4500 (Fuel Truck)	4/3/2009	$52,640.15	Assist. Mech.	No	Yes	Replaced 107					$ 95,000.00
134	2010	Dodge	Ram 1500 4x4 Quad Cab	7/19/2010	$26,916.00	Telem.	Yes	Yes	Replaced 114		-	-	-	-
135	2011	Ford	F-350 4x4 (Blue) HE Trans.	7/29/2010	$29,706.00	Heavy Equip.	No	Yes	Replaced 118			$ 55,000.00		-
136	2011	Ford	F-350 4x4 (White) HE Trans.	4/1/2011	$30,710.00	Heavy Equip.	No	Yes	Replaced 117				$ 65,000.00	-
137	2012	Ford	F-150 4x4 (Telem.)	11/5/2012	$29,353.00	Telem.	Yes	Yes	Replaced 120			-	-	-
138	2014	Ford	F-150 4x4 Super Crew (Tractor Crew)	8/25/2014	$26,988.00	Admin.	No	Yes	Replaced 115			-	$ 67,500.00	-
139	2014	Ford	F-150 4x4 XLT Super Crew (NPDES - R/W)	12/22/2014	$29,712.00	R/W	Yes	Yes	Replaced 128	-			-	-
140	2014	Ford	F-150 4x4 XLT Super Crew (Telem.)	12/29/2014	$29,712.00	Telem.	Yes	Yes	Replaced 121	-			-	-
141	2015	Ford	F-250 4x4 Super Crew (Pipe Crew)	2/10/2015	$36,980.00	Heavy Equip.	No	Yes	Replaced 119	-			-	$ 70,000.00
142	2016	Ford	F-150 4x4 XLT Super Crew (Spare)	1/6/2016	$31,543.00	Admin.	No	Yes	Replaced 123	-			$ 67,500.00	-
143	2018	GMC	Sierra 3500 Crew Cab 4x4 Duelly (Pipe Crew)	1/2/2018	$43,203.25	Heavy Equip.	No	Yes	Replaced 124	-	-	-	-	$ 70,000.00
144	2018	Ford	F-250 4x4 SuperCab (1-1/2) Spray Truck	1/10/2018	$29,873.00	Spray Dept.	No	Yes	Replaced 135	-	-	-		-
145	2018	Nissan	Rouge SV FWD (Admin.)	3/12/2018	$17,261.25	Admin.	No	Yes	Replaced 130	-	-	-	$ 70,000.00	
146	2020	Ford	F-450 (Mechanics Truck)	4/15/2020	$84,186.00	Mechanic	No	Yes	Replaced 131	-	-	-	-	-
147	2021	Chevrolet	2500 HD Crew Cab 4x4 Long Bed (Flat Mowers)	12/10/2020	$38,144.00	Mowers	No	Yes	Replaced 125	-	-	-	-	-
148	2021	Chevrolet	2500 HD Crew Cab Long Bed 4x4 (Slope Mowers)	12/17/2020	$38,144.00	Mowers	No	Yes	Replaced 124	-	-	-	-	-
149	2021	Chevrolet	3500 HD Crew Cab Short Bed 4x4 (H.E.) Chad H.	12/17/2020	$39,429.99	Heavy Equip.	No	Yes	Replaced 126	-	-	-	-	-
150	2021	Ford	F-250 Super Crew Cab Short Bed 4x4 (Spray Truck)	2/17/2021	$31,820.00	Spray Dept.	No	Yes	Replaced 118	-	-	-	-	-
151	2021	Ford	F-350 Crew Cab Long Bed 4x4 (Weed Eating)	2/17/2021	$39,217.00	Weed Eating	No	Yes	Replaced 122	-	-	-	-	-
152	2024	Ford	F-250 4x4 SuperCab (1-1/2) Spray Truck	6/20/2024	$50,146.00	Spray Dept.	No	Yes	New	-	-	-	-	-
153	2024	Ford	F-150 4x4 Super Crew (Telem) Tim B.	7/11/2024	$45,299.00	Telem.	No	Yes	Replaced 132	-	-	-	-	-
154	2024	Ford	F-250 4x4 Crew Cab (H.E.) Juan R.	9/17/2024	$49,961.80	Admin.	No	Yes	Replaced 137					
155	2024	Ford	F-250 4x4 Crew Cab (Telem.) Chris H.	9/17/2024	$49,961.80	Telem.	No	Yes	Replaced 134					
156	2024	Ford	F-250 4x4 Crew Cab (Telem.) Nate B.	9/17/2024	$49,961.80	Telem.	No	Yes	Replaced 140					
157	2024	Ford	F-250 4x4 Crew Cab (NPDES-R/W) Wade W.	9/17/2024	$49,961.80	R/W	No	Yes	Replaced 139					
158	2025	Ford	F-150 Tremor 4x4 Crew Cab (Assist. Mgr.) Mike C.	6/24/2025	$61,947.00	Admin.	No	Yes	Replaced 142	$ 61,947.00				
159	2025	Ford	F-150 Tremor 4x4 Crew Cab (F. Mgr.) Bill W.	6/24/2025	$61,947.00	Admin.	No	Yes	Replaced 138	$ 61,947.00				
										-	-	-	-	-
Heavy Equip.														
201	1995	Ford	LT 8000 Dump Truck	7/24/1995	$50,475.00	Heavy Equip.	Yes	Yes	Replaced by 221	-	$ 57,765.00	-		-
202	1988	Dresser	TD-15 Bulldozer	11/1/1988	$96,000.00	Heavy Equip.	Yes	Yes	Replaced by 222	-	-	-	-	-
207	1989	Ford	LT-9000 Tractor	11/1/1988	$42,738.00	Heavy Equip.	Yes	Yes	Replaced by 216	-	-	-	-	-
208	1995	Aquatics Unlimited	AUH8-200 Weed Harvester	8/1/1997	$35,712.00	Heavy Equip.	Yes	Yes	Replaced by 228	-	-	-	-	-
209	1993	Caterpillar	Cat 446 Loader/Hoe	2/1/1993	$76,161.00	Heavy Equip.	Yes	Yes	Replaced by 219	-	-	-	-	-
210	1996	Champion	720-A Grader	7/1/1996	$134,900.00	Heavy Equip.	Yes	Yes	Not Replaced	-	-	-	-	-
213	1998	Komatsu	WA 320 Loader	11/1/1998	$110,000.00	Heavy Equip.	Yes	Yes	Replaced by 223	-	-	-	-	-
214	2002	Volvo	EC 240 BLR Excavator - Long Stick	3/18/2002	$162,234.00	Heavy Equip.	Yes	Yes	New	-	-	-	-	-
215	2004	Komatsu	PC 220 LC Excavator - Long Stick	4/22/2004	$161,473.00	Heavy Equip.	Yes	Yes	Replaced by 229	-	-	-	-	-
216	2005	Western Star	Semi Tractor (Low Boy)	4/4/2005	$83,669.00	Heavy Equip.	No	Yes	Replaced 207		-			-

Equipment Tag #	Year	Make	Description	Acquisition Date	Purchase Price	Use	Surplus	Capital Item	New or Replacement	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
217	1952	Tow motor	Forklift		$200.00	Heavy Equip.	Yes	Yes	Replaced by 224	-	-	-	-	-
218	2005	Komatsu	D39-PX Bulldozer	12/30/2005	$92,700.00	Heavy Equip.	Yes	Yes	Replaced by 231	-	-	-	-	-
219	2007	Caterpillar	430E Rubber Tire BackHoe	9/14/2007	$80,879.00	Heavy Equip.	Yes	Yes	Replaced 209	-	-	-	-	-
220	2008	Sterling	LT 7500 Dump Truck (Stolen)	9/27/2007	$84,984.00	Heavy Equip.	Yes	Yes	Replaced 200	-	-	-	-	-
221	2008	Sterling	LT 7500 Dump Truck (Wrecked)	10/8/2007	$84,984.00	Heavy Equip.	Yes	Yes	Replaced 201		-	-	-	-
222	2008	John Deere	700J Bulldozer	10/3/2008	$123,072.66	Heavy Equip.	Yes	Yes	Replaced 202	-	-	-	-	-
223	2010	John Deere	624K Loader	12/10/2009	$157,303.79	Heavy Equip.	No	Yes	Replaced 213	-	-	-	-	$ 250,000.00
224	2005	Clark	CDM25 Forklift (Propane)	4/29/2010	$14,995.00	Mech.	No	Yes	Replaced 217	-	-	-	-	-
225	2010	John Deere	333DT Track Skid Steer	11/29/2010	$57,702.40	Heavy Equip.	Yes	Yes	Destroyed by Fire	-	-	-	-	-
225-A	2010	John Deere	84" HD Construction Bucket	11/29/2010	$1,164.00	Heavy Equip.	No	Yes	Replaced 302	-	-	-	-	-
225-B	2010	John Deere	48" Pallet Forks	11/29/2010	$1,244.00	Heavy Equip.	No	Yes	Replaced 302	-	-	-	-	-
225-C	2010	John Deere	RC72 Rotary Cutter	11/29/2010	$5,296.80	Heavy Equip.	Yes	Yes	Replaced 302	-	-	-	-	-
225-D	2010	John Deere	MH60 Mulching Head	11/29/2010	$21,579.18	Heavy Equip.	No	Yes	Replaced 302	-	-	-	-	-
225-E	2012	John Deere	BP84 Pick-Up Broom	3/9/2012	$4,772.88	Heavy Equip.	No	Yes	New	-	-	-	-	-
225-F	2016	Skid Pro	90" Low Profile Bucket		$2,045.00	Heavy Equip.	No	Yes	New	-	-	-	-	-
225-G	2016	Skid Pro	Grapple Rake		$3,995.00	Heavy Equip.	No	Yes	New					-
226	2011	John Deere	270D (Short Stick)	5/17/2011	$243,089.40	Heavy Equip.	No	Yes	New					-
227	2012	John Deere	250 GLC (Long Stick)	10/17/2012	$214,525.00	Heavy Equip.	Yes	Yes	Replaced 214					-
228	2015	Dorotea Mekaniska A	Truxor DM 5045	4/15/2015	$136,325.00	Weed Eating	No	Yes	Replaced 208	-	-	-	-	-
229	2015	John Deere	250 GLC (Long Stick)	10/28/2015	$248,442.75	Heavy Equip.	No	Yes	Replaced 215	-	-			
230	2016	Peterbilt	567 Dump Truck	2/11/2016	$136,996.00	Heavy Equip.	No	Yes	Replaced 220	-	-	-	-	-
231	2016	Caterpillar	D6K2LGP Bulldozer	8/29/2016	$172,622.00	Heavy Equip.	No	Yes	Replaced 218	-	-	-	-	-
232	2002	Terex	TA27 Offroad Dump Truck	2/27/2018	$27,000.00	Heavy Equip.	No	Yes	Used/New	-	-	-	-	-
233	2018	ASV	RT 120 Track Skid Steer	10/1/2018	$80,150.00	Heavy Equip.	No	Yes	New	-	-	-	-	-
234	2019	Peterbilt	567 Dump Truck	12/13/2018	$135,607.00	Heavy Equip.	No	Yes	New	-	-	-	-	-
235	2019	John Deere	710L Rubber Tire Backhoe	2/19/2019	$140,919.00	Heavy Equip.	No	Yes	New	-	-	$ 165,000.00		-
236	2019	John Deere	700KLGP Bulldozer	10/28/2019	$176,677.25	Heavy Equip	No	Yes	Replaced 222	-	-	-	-	-
237	2019	Bomag	BW 124 DH-5 Single Drum Compaction Roller	11/12/2019	$58,862.40	Heavy Equip.	No	Yes	New	-	-	-	-	-
238	2021	John Deere	644P Wheel Loader	5/26/2021	$220,443.20	Heavy Equip.	No	Yes	Replaced 219	-	-	-	-	-
238-A	2021	Paladin	4.0 CY Bucket	5/26/2021	$15,000.00	Heavy Equip.	No	Yes	New	-	-	-	-	-
238-B	2021	TRM Manufacturing	QC Rake	5/26/2021	$10,415.00	Heavy Equip.	No	Yes	New	-	-	-	-	-
238-C	2021	Paladin	106" x 72" Forks	5/26/2021	$12,416.00	Heavy Equip.	No	Yes	New	-	-	-	-	-
239	2021	John Deere	333G Track Skid Steer	9/16/2021	$82,468.88	Heavy Equip.	No	Yes	Replaced 225	-	-	-	-	-
239-A	2021	John Deere	C84 Utility Bucket	9/16/2021	$1,714.00	Heavy Equip.	No	Yes	New	-	-	-	-	-
239-B	2021	John Deere	MH60D Mulching Head	9/16/2021	$30,648.80	Heavy Equip.	No	Yes	New	-	-	-	-	-
240	2024	John Deere	300P (Short Stick) Excavator	12/21/2023	$325,383.80	Heavy Equip.	No	Yes	Replaced 226	-	-	-	-	-
241	2024	John Deere	250P (Long Stick) Excavator	2/26/2024	$338,676.80	Heavy Equip.	No	Yes	Replaced 227	-	-	-	-	-
242	2025	Peterbilt	537 Dump Truck	4/3/2025	$190,042.00	Heavy Equip.	No	Yes	Replaced 221	$ 190,042.00				
243	2024	John Deere	250P (Long Stick) Excavator	1/14/2026	$334,000.00	Heavy Equip.	No	Yes	Replaced 229		$ 334,000.00			
243-A	2026	Pemberton	Aquatic Bucket		$7,495.00	Heavy Equip.	No	Yes	New		$ 7,495.00			
										-	-	-	-	-
Mowers														
315	2008	John Deere	7130 4x4 Cab Tractor	5/29/2008	$87,885.00	Mowing Tractor	No	Yes	Replaced 307		-	-	$ 145,000.00	-
315-A	2008	Alamo Maverick	30' Boom	5/29/2008	$23,915.00	Implement	No	Yes	Replaced 307A	-	-	-		-
316	2008	John Deere	Z-Trac 72" Commercial Mower	8/7/2008	$13,785.39	Parks	Yes	Yes	Replaced by 332	-		-		-
317	2011	John Deere	6430 4x4 Cab Tractor (Hugo)	12/16/2010	$52,399.40	Mowing Tractor	No	Yes	Replaced 311	-	-	-	-	
317-A	2008	John Deere	CX 15 Rotary Cutter Batwing Deck (Hugo)	10/31/2008	$12,639.60	Implement	Yes	Yes	Replaced 311A	-	-	-	-	-
317-B	2014	Schulte	XH 1500 Rotary Cutter Batwing Deck (Spare)	6/16/2014	$21,490.00	Implement	Yes	Yes	Replaced 317-A	-	-	-	-	-
317-C	2020	Schulte	XH 1500-S4 Rotary Cutter Batwing Deck (Hugo)	10/20/2020	$23,500.00	Implement	No	Yes	Replaced 317-B	-	-	$ 48,000.00		-
318	2011	John Deere	6430 4x4 Cab Tractor (Steven)	12/16/2010	$52,399.40	Mowing Tractor	Yes	Yes	Replaced 310	-	-	-	-	
318-A	2008	John Deere	CX 15 Rotary Cutter Batwing Deck (Steven)	10/31/2008	$12,639.60	Implement	Yes	Yes	Replaced 310A	-	-	-	-	-

Equipment Tag #	Year	Make	Description	Acquisition Date	Purchase Price	Use	Surplus	Capital Item	New or Replacement	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
318-B	2010	Schulte	XH 1500 Rotary Cutter Batwing Deck (Steven)	6/22/2011	$18,930.00	Implement	Yes	Yes	Replaced 318-A	-	-	-	-	-
318-C	2017	Schulte	XH 1500 Rotary Cutter Batwing Deck (Steven)	11/27/2017	$21,500.00	Implement	No	Yes	Replaced 318-B		$ 44,000.00	-	-	-
319	2013	John Deere	6115M 4x4 Cab Tractor	10/22/2013	$93,414.00	Mowing Tractor	No	Yes	Replaced 309	-	-			$ 120,000.00
319-A	2013	Tiger	TB60 Boom Mower	10/22/2013	$29,934.00	Implement	No	Yes	Replaced 309A	-	-			$ 85,000.00
320	2013	John Deere	6115M 4x4 Cab Tractor	10/23/2013	$93,414.00	Mowing Tractor	No	Yes	Replaced 308		-	-		
320-A	2013	Tiger	TB60 Boom Mower	10/23/2013	$29,934.00	Implement	No	Yes	Replaced 308A		-	-		
321	2015	John Deere	Z-997-R Zero-Turn Mower	6/17/2015	$18,618.60	Parks	No	Yes	Replaced 313				-	$ 26,000.00
322	2016	Kubota	M6-111DTC-F 4x4 Cab Tractor	12/27/2016	$106,761.00	Mowing Tractor	Yes	Yes	Replaced 312	-	-		-	-
322-A	2016	Terrain King	KBRS Swivel Boom Mower	12/27/2016	$35,000.00	Implement	Yes	Yes	Replaced 312A	-	-		-	-
323	2017	Altoz	TRX 6601 V37 A (Trac Zero Turn)	9/29/2017	$17,999.00	Mowing Tractor	No	Yes	Replaced 313	-		$ 30,000.00	-	-
324	2017	Kubota	M6-111DTC-F 4x4 Cab Tractor	10/16/2017	$105,402.00	Mowing Tractor	Yes	Yes	Replaced 314	-	-	-		-
324A	2017	Terrain King	KB22-KBRS Swivel Boom Mower	10/16/2017	$35,000.00	Implement	Yes	Yes	Replaced 314A	-	-	-		-
325	2019	John Deere	6145M 4x4 Cab Tractor (Hugo)	1/6/2020	$94,235.68	Mowing Tractor	No	Yes	Replaced 317	-	-	-	-	-
326	2019	John Deere	6145M 4x4 Cab Tractor (Steven)	1/6/2020	$94,235.68	Mowing Tractor	No	Yes	Replaced 318	-	-	-	-	-
327	2019	RC Mowers	TK-52 XP Remote Controlled Slope Mower	5/19/2020	$45,595.25	Mowing Tractor	No	Yes	New	-	-		$ 70,000.00	
328	2020	Altoz	TRX 766 37HP Vang All TE (Trac Zero Turn)	3/1/2021	$17,959.39	Mowing Tractor	No	Yes	Replaced 316	-	-		$ 30,000.00	
329	2021	John Deere	6110M 4x4 Cab Tractor		$90,000.00	Mowing Tractor	No	Yes	New	-	-	-	-	-
329-A	2021	Diamond	DBM-C-N 22' Boom Mower w/50" Rotary Head		$39,900.00	Implement	No	Yes	New	-	-	-	-	-
330	2022	RC Mowers	TK-52 XP Remote Controlled Slope Mower		$55,250.00	Mowing Tractor	No	Yes	New	-	-	-	-	-
331	2023	John Deere	6110M 4x4 Cab Tractor		$97,168.56	Mowing Tractor	No	Yes	Replaced 322	-	-	-	-	-
331A	2023	Diamond	DBM-C-N 22' Boom Mower w/50" Rotary Head		$70,000.00	Implement	No	Yes	Replaced 322					
332	2021	John Deere	Z-920-M Zero Turn Mower	4/25/2023	$6,250.00	Mowing Tractor	No	Yes	Replaced 316					
333	2024	John Deere	6145M 4x4 Cab Tractor	1/31/2024	$141,951.28	Mowing Tractor	No	Yes	New					
333A	2024	Schulte	XH 1500 Series 5 Rotary Batwing Mower	5/7/2024	$46,790.77	Implement	No	Yes	New					
334	2024	John Deere	6110M 4x4 Cab Tractor	5/6/2024	$112,670.72	Mowing Tractor	No	Yes	Replaced 324					
334A	2024	Diamond	DBM-C-N 22' Boom Mower w/50" Rotary Head	5/6/2024	$76,736.00	Implement	No	Yes	Replaced 324A					
335	2025	John Deere	5067E Cab Utility Tractor w/ 7' or 8' deck		$50,109.39	Mowing Tractor	No	Yes	New	$ 50,109.39				
335-A	2024	Rhino	TW-27 84" Rotary Cutter		$8,005.36	Implement	No	Yes	New	$ 8,005.36	-	-	-	-
Implements														
406	1994	FHI Transportation	16' Lawn Trailer (blue)	5/1/2001	$1,350.00	Trailer	No	Yes		-	-	$ 7,000.00	-	-
407	2005	Shelby Carry On	16ft Utility Trailer	12/28/2004	$1,699.98	Trailer	No	Yes		-	-	-	-	-
408	2002	Burch	Wet blade		$14,700.00	Implement	Yes	Yes		-	-	-	-	-
409	2001	Finn	T30 Hydro seeder	4/1/2002	$6,706.40	Implement	No	Yes		-	-	-	-	-
410	2006	Vermeer	BC-1000XL Chipper	5/31/2006	$28,200.00	Implement	No	Yes		-		-	-	-
413	2005	Rhino	72" Mower		$2,900.00	Implement	Yes	Yes		-	-	-	-	-
414	2005	Sweepster	Broom, model M24C5A		$4,600.00	Implement	Yes	Yes		-	-	-	-	-
415	2002	Sepco	13" Bucket			Implement	Yes	Yes		-	-	-	-	-
416	2004	CPL	Forks		"$3,660	Implement	Yes	Yes		-	-	-	-	-
417	1992	Taylor	Mower			Implement	Yes	Yes		-	-	-	-	-
419	2007	Carry On	7'x12' Lawn Maint. Trailer	5/8/2007	$1,351.98	Trailer	No	Yes		-	-	$ 10,000.00	-	-
420		Case	Flood Pump		$0.00	Implement	Yes	Yes		-	-	-	-	-
421	2007	Interstate 40DLA	40 ton Dump Truck Trailer	8/10/2007	$14,610.45	Trailer	No	Yes		-		$ 55,000.00		-
422	1998	Pemberton Forks	Model WA320		$0.00	Implement	Yes	No		-	-	-	-	-
425	2009	Interstate	Low Boy Trailer Model	12/29/2008	$47,775.00	Trailer	No	Yes	Replaced 405	-			-	
426	2012	Big Tex	16' 70PI-16X Utility Trailer	2/28/2012	$2,999.00	Trailer	No	Yes	New				-	-
427	2007	Cerda	CBBH-9 Gravel Box - 9 C.Y.	11/17/2011	$4,600.00	Implement	No	Yes	New	-	-	-	-	-
428	2012	MWI	CT006 6" Trash Pump (Culvert Crew)	12/10/2012	$30,976.00	Pump	No	Yes	New	-	-	-	-	
429	2012	Big Tex	16' 70PI-16X Utility Trailer - Admin #428	1/22/2013	$2,723.00	Trailer	No	Yes	New				-	-
429i	2015	LA-MSID Made	Tram Trailer (1,800 lbs.)	1/13/2015		Trailer				-	-	-	-	-
430	2014	Vermeer	BC1500 Brush Chipper	12/19/2014	$55,066.00	Implement	No	Yes	Replaced 410	-	-	-	-	$ 70,000.00

Equipment Tag #	Year	Make	Description	Acquisition Date	Purchase Price	Use	Surplus	Capital Item	New or Replacement	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
432-A	2015	Aqua-Barrier	8'x18'x50' long Aqua-Barrier Dam	4/21/2015	$11,190.75	Culvert Crew	No	Yes	New	-	-	-	-	-
432-B	2015	Aqua-Barrier	8'x18'x50' long Aqua-Barrier Dam	4/21/2015	$11,190.75	Culvert Crew	No	Yes	New	-	-	-	-	-
432-C	2015	Aqua-Barrier	8'x18'x50' long Aqua-Barrier Dam	4/21/2015	$11,190.75	Culvert Crew	No	Yes	New	-	-	-	-	-
432-D	2015	Aqua-Barrier	8'x18'x50' long Aqua-Barrier Dam	4/21/2015	$11,190.75	Culvert Crew	No	Yes	New	-	-	-	-	-
433	2017	Big Tex	20PH-20+5 Flat Deck Trailer	10/19/2016	$7,258.00	Trailer	No	Yes	New	-	-	-	-	-
434	2017	AMCO	LTF100B-2422 3Pt. Disc	7/17/2017	$7,795.00	Implement	No	Yes	Replaced 402	-	-	-	-	-
435	2018	PJ Trailers	14' Dump Trailer	1/18/2018	$12,789.00	Trailer	No	Yes	New	-	-	-	-	-
436	2021	CargoMate	24' Enclosed Lawn Trailer	5/19/2020	$6,490.00	Trailer	No	Yes	New	-	-	-	-	-
437	2026	Black Iron	6'x12' Single Axle Utility Trailer	4/16/2026	$2,192.00	Trailer	No	No	New	-	$ 2,192.00	-	-	-
438	2026	Big Tex	7'x16' Tandem Axle Utility Trailer	4/16/2026	$4,194.00	Trailer	No	No	Replaced 407		$ 4,194.00			
										-	-	-	-	-
Spraying														
501	1987	Willie	50 GAL SPRAY TRAILER for 4 wheeler		$800.00	Spray Equip.	No	No		-	-	-	-	-
502	1996		50 GAL SPRAY RIG (Boat)		$1,400.00	Spray Equip.	No	Yes		-	-	-	-	-
504		Husqvarna	BACK PACK BLOWER Two Stroke		$506.00	Spray Equip.	No	No		-	-	-	-	-
505	1996	Granblo	TRUCK MOUNTED BLOWER		$1,700.00	Spray Equip.	No	Yes		-	-	-	-	-
506		Solo	BACK PACK SPRAYER		$120.00	Spray Equip.	Yes	No		-	-	-	-	-
507		Solo	BACK PACK SPRAYER 412		$506.00	Spray Equip.	No	No		-	-	-	-	-
508	1998	Echo	ECHO BACKPACK SPRAYER		$918.00	Spray Equip.	No	No		-	-	-	-	-
509	1999	Chemical Containers	200 GAL Invert Rig		$4,948.00	Spray Equip.	No	Yes		-	-	-	-	-
510	2000	Honda	HONDA RECON/4-WHEELER		$3,475.00	Spray Equip.	No	Stolen	Replaced with 523	-	-	-	-	-
512	2000	ECWCD	CARPET WIPER		$2,153.51	Spray Equip.	Yes	Yes		-	-	-	-	-
513			MIXING FACILITY		"$2,153.51	Spray Equip.	Yes	No		-	-	-	-	-
514	2000	Carpet Wiper			$3,858.91	Spray Equip.	No	Yes		-	-	-	-	-
515			SPRAYER, 35-GALLON-ELECTRIC		$180.00	Spray Equip.	No	No		-	-	-	-	-
518	2002	Mercury	BOAT MOTOR 15 hp		"$1,398	Spray Equip.	Yes	No	Replaced with 524	-	-	-	-	-
520	2002	ECWCD - In House	BOAT 15.7" FLATBOTTOM			Spray Equip.	Yes	No	Replaced with 522	-	-	-	-	-
521	2002	Mercury	BOAT MOTOR, MERCURY,15HP		"$1,398	Spray Equip.	Yes	Yes	Replaced with 522A	-	-	-	-	-
522	2005	Carolina Skiff	17x8 Boat	12/7/2005	$3,500.00	Spray Equip.	No	Yes	Replaced 520	-	-	-	-	-
522-A	2005	Yamaha 25	25 HP Boat Motor	12/7/2005	$5,991.00	Spray Equip.	No	Yes	Replaced 521	-	-	-	-	-
522-B	2006	Rocket International	T25 Boat Trailer	12/7/2005	$1,500.00	Spray Equip.	No	Yes		-	-	-	-	-
523	2010	John Deere	HPX Gator 4x4	11/4/2010	$7,394.40	Spray Equip.	Stolen	Yes	Replaced 510			$ 25,000.00		-
524	2011	John Deere	Gator 625i XUV	8/29/2011	$9,441.79	Spray Equip.	No	Yes	Replaced 523		-	$ 20,000.00	-	-
524-A	2010	ECWCD - In House	65 Gallon - Gator Spray Rig	9/30/2010	$1,861.00	Spray Equip.	No	Yes	New	-	-	-	-	-
524-B	2011	ECWCD - In House	Gator Trailer	1/31/2011	$1,619.40	Spray Equip.	No	Yes	New	-	-	-	-	-
525	2011	Carolina Skiff	J14 Boat	7/8/2011	$1,704.00	Spray Equip.	No	Yes	New	-	-	-	-	-
525-A	2011	Mercury 15	15 HP 4 Stroke Boat Motor	7/8/2011	$1,429.00	Spray Equip.	No	Yes	New	-	-	-	-	-
525-B	2011	ECWCD - In House	Boat Trailer	7/8/2011	$500.00	Spray Equip.	No	No	New	-	-	-	-	-
526		YSI	Dissolved Oxygen Meter		$0.00	Spray Equip.	No	No		-	-	-	-	-
135-A	2010	ECWCD - In House	Invert Spray Rig	9/30/2010	$2,756.50	Spray Equip.	No	Yes	New	-	-	-	-	-
136-A	2011	ECWCD - In House	Invert Spray Rig	8/31/2011	$2,171.26	Spray Equip.	No	Yes	New	-	-	-	-	-
		TBD	Fiberglass Boat/Mud Boat Engine								-		$ 30,000.00	-
										-	-	-	-	-
										-	-	-	-	-
Service														
600	1989	Miller	Welder		"$2,500	Shop Equipment	Yes	Yes	Replaced with 611	-	-	-	-	-
601	1995	Ingersal Rand	Air compressor		$1,745.00	Shop Equipment	Yes	Yes		-	-	-	-	-
602	1989	Ingersal Rand	Air compressor		$1,200.00	Shop Equipment	Yes	Yes		-	-	-	-	-
603	1989	Honda	HONDA EM1600 GENERATOR	5/1/2001	$2,500.00	Shop Equipment	No	Yes		-	-	-	-	-

Equipment Tag #	Year	Make	Description	Acquisition Date	Purchase Price	Use	Surplus	Capital Item	New or Replacement	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
604	1997	North Star	PRESSURE WASHER	5/1/1997	$1,399.00	Shop Equipment	No	Yes		-	-	-	-	-
606	2002	KW	6.6 Generator	12/11/2001	$1,429.98	Shop Equipment	No	Yes		-	-	-	-	-
607	2002	ESAB 679	Plasma Cutter PCM-875	5/1/2002	$1,600.00	Shop Equipment	No	Yes		-	-	-	-	-
608	2002	Globe	A/C Refrigerant Recovery Machine	9/16/2002	$1,178.00	Shop Equipment	No	Yes		-	-	-	-	-
609	2002	Miller - 251	Welder, Shop Miller Electric	5/2/2002	$1,680.00	Shop Equipment	No	Yes		-	-	-	-	-
610	2003	Industrial Air	Air Compressor	2/5/2003	$2,150.00	Shop Equipment	No	Yes		-	-	-	-	-
611	2003	Miller	Bobcat 250 (Mech. Truck)	10/31/2002	$2,605.00	Shop Equipment	No	Yes		-	-	-	-	-
612	2003	Rotary	9,000 lb. Vehicle Lift	12/3/2002	$3,500.00	Shop Equipment	No	Yes		-	-	-	-	-
613	2004	Dewalt DG 6000	Generator, Dewalt GX340	9/14/2004	$1,899.00	Shop Equipment	No	Yes		-	-	-	-	-
614	1996	Waterman	Sluice gate opener	3/1/1996	$1,330.00	Shop Equipment	No	Yes		-	-	-	-	-
615	1987	Dayton	WINCH, DAYTON (MODEL 3Z842A)		$2,000.00	Shop Equipment	Yes	Yes		-	-	-	-	-
616	2000	Miller	Wire Feed Welder (KX102104)	9/1/2001	$1,050.00		No	Yes		-	-	-	-	-
617	2007	Stanley	Hydralic Power Unit 20 hp Honda	3/9/2007	$5,309.36	Shop Equipment	No	Yes		-	-	-	-	-
618	2007	Stanley PD45-131	Post driver w/remote valves	3/9/2007	$1,938.14	Shop Equipment	No	Yes		-	-	-	-	-
619	2007	Mowhawk TR-25A	25,000 lb. 4-POST Vehicle Lift	9/14/2007	$15,044.74	Shop Equipment	No	Yes	New	-			60,000.00	-
620	1993	Sweeney FAS 391	Torque Multiplier (Tim T. Truck)		$1,183.00	Shop Equipment	No	Yes		-	-	-	-	-
621	2005	Hotsy	Pressure Washer		$4,200.00	Shop Equipment	No	Yes		-	-	-	-	-
622	2001	North Star 8000 PPC	Generator (Tim B. Truck)		$1,429.98	Shop Equipment	No	Yes		-	-	-	-	-
623	2010	Multiquip MVH1200	Plate Compactor	3/23/2010	$1,800.00		No	Yes	New	-	-	-	-	-
624	2009	Ingersal Rand	Air Compresser	7/2/2009	$2,182.50		No	Yes	Replaced 602	-	-	-	-	-
625	2007	ESRI	ARCPAD w/Trimble Recon Handheld	10/19/2007	$4,300.00		No	Yes	New	-	-	-	-	-
626	2009	Wacker Neuson	G-25 Skid Mounted Generator (S. Marsh Inlet)	10/28/2009	$12,995.00		No	Yes	New	-	-	$ 20,000.00	-	-
627	2009	Wacker Neuson	G-25 Cart Mounted Generator (S. Marsh Outlet)	10/28/2009	$14,895.00		No	Yes	New	-	-	-	$ 20,000.00	-
628	2009	Wacker Neuson	G-25 Skid Mounted Generator (N. Marsh Outlet)	10/28/2009	$12,995.00		No	Yes	New	-	-	-	-	-
629	2000	Wacker DPU5045H	Plate Compactor	11/1/2011	$3,975.00		No	Yes	New / Used	-	-	-	-	-
630	2011	Wash Bay	Vehicle Wash VR/SPT 10 Closed Loop System	9/19/2011	$105,566.48		No	Yes	New	-	-	-	-	-
631	2011	Mowhawk TP-16	16,000 lb. 2-Post Vehicle Lift	9/19/2011	$17,766.38		No	Yes	New	-	-	-	-	-
632	2011	Kemper	Welding Fume Filter Type #8416114	9/19/2011	$5,505.33		No	Yes	New	-	-	-	-	-
633	2011	Wacker Neuson	G-25 Skid Mounted Generator (N. Marsh Inlet)	8/22/2011	$13,667.00		No	Yes	New	-	-	-	-	-
634	2011	Liftmaster GH5011	Commercial Door Opener (Sorrano Bldg)	9/27/2011	$1,600.00		No	Yes	New	-	-	-	-	-
635	2012	Wacker G-120	Trailer Mounted Gen. (Back-up Power)	6/28/2012	$37,183.15		No	Yes	New	-	-	-	-	-
636	2012	Yellow Jacket	Refrigerant Management System	1/24/2013	$2,999.99		No	Yes	Replaced 608	-	-	-	-	-
637	2015	Bosch	Bosch TC220S Tire Machine & Balancer WBE4200	8/26/2015	$3,899.00		No	Yes	New	-	-	-	-	-
638	2015	Miller	Syncrowave 210 TIG/MIG Welder	10/22/2015	$3,100.00		No	Yes	New	-	-	-	-	-
										-	-	-	-	-

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: Emergency Compensation Policy

Meeting Date: June 15, 2026

Agenda Item # 3E

☐ **CONSENT** ☒ **ACTION** ☐ **OLD BUSINESS** ☐ **NEW BUSINESS**

Request Initiated By: ☐ **COMMISSIONER** _____ ☐ **ATTORNEY**

☐ **BOARD** ☐ **MANAGER** ☐ **ENGINEER** ☐ **AUDITOR**

1 Recommended motion: Move to approve Resolution 2026-06 amending Section 6 of the Financial Policies as attached.

2 What the action accomplishes: Provides for a policy for emergency operations compensation that satisfies FEMA's requirement to have a pre-existing policy for emergency operation pay.They were not satisfied with an approved resolution for each storm.

3 Fiscal Impact: The amount that is reimbursed by FEMA varies per storm.

4 Staff comments:

5 Staff review and recommended approval:

☒ **MANAGER** ☒ **ASSISTANT DISTRICT MGR**

☒ **ATTORNEY** ☒ **FIELD SUPERINTENDENT**

☐ **ENGINEER** ☒ **CONTROLLER**

6 Board Action:

☐ **APPROVED** ☐ **DENIED** ☐ **DEFERRED**

RESOLUTION 2026-06

A RESOLUTION OF THE BOARD OF COMMISSIONERS OF LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT TO AMEND SECTION 6 - THE FINANCIAL POLICIES

WHEREAS, the Board of Commissioners (hereafter referred to as the "Board") of Lehigh Acres Municipal Services Improvement District (hereafter referred to as the "District") is authorized and empowered by Chapters 189, 197, and 298, F.S., Chapter 2015-202, 2017-216 and Chapter 2024-285 Laws of Florida (hereafter referred to as the "Special Acts"), to exercise the General and Special Powers authorized by the Special Act; and

WHEREAS, the Board may choose to create or amend policies and procedures from time to time; and

WHEREAS, the District has determined that it would like to establish an Emergency Operations Compensation policy by adding Section 6.9 to the current Finance Policy.

NOW, THEREFORE, be it resolved by the Board of Commissioners of Lehigh Acres Municipal Services Improvement District as follows:

Section 6 of Policy and Procedures Financial Policies is amended as attached.

THIS RESOLUTION INTRODUCED and ADOPTED by the BOARD OF COMMISSIONERS on June 15, 2026.

LEHIGH ACRES MUNICIPAL SERVICE IMPROVEMENT DISTRICT

By: _____
Michael Bonacolta, Chair

(DISTRICT SEAL)

Attest: _____
Julie Hollingsworth, Secretary

6.9 Emergency Operations Compensation (Hurricane/Disaster Response)

During officially declared emergency operations associated with a hurricane or natural disaster, the District may require employees to perform work in support of preparedness, response, and initial recovery activities.

All employees, including both hourly (non-exempt) and salaried (exempt) personnel, who are officially assigned and directed to work during designated emergency operations shifts (e.g., Team A/Team B) shall be compensated in accordance with this policy during the Emergency Operations Activation Period.

Emergency Operations Activation Period

The Emergency Operations Activation Period is a formally declared and time-limited window established by the District Manager (or designee) to control operations and ensure reimbursement eligibility. This period may be accompanied by a temporary suspension of the collective bargaining agreement, allowing for unusual emergency scheduling.

This period:

- **Begins and ends** upon formal activation of emergency operations in connection with a declared State of Emergency or Executive Order
- **Includes only**:
    - Pre-Event Preparation Phase (e.g., securing infrastructure, staging resources)
    - Emergency Response Phase (during and immediately following the event)
    - Initial Recovery Phase (e.g., debris clearance, critical service restoration)
- Written deactivation shall **not exceed fourteen (14) calendar days following the event**, unless extended in writing
- Any extension must be:
    - **Operationally justified**, and
    - **Approved in writing**, with defined start and end dates

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Eligibility Requirements

To qualify for emergency operations compensation under this policy:

- Employees must be:
    - **Assigned to an emergency operations team** (e.g., Team A/Team B), or
    - **Formally deployed and directed** to perform emergency-related duties
- Compensation applies **only to hours actually worked**:
    - During the **Emergency Operations Activation Period**, and
    - While performing **emergency-related activities**

Standby and On-Site Readiness

- Employees required to remain **on-site at a District facility or designated location**, including periods of rest or sleep, shall be considered **engaged to wait** and such time shall be treated as **hours worked**, provided the employee is:
    - **Formally assigned**, and
    - **Required to remain on-site for immediate deployment or deployment support**.
- Compensable standby time must be:
    - **Pre-authorized by the District Manager**, and
    - **Operationally necessary for immediate response readiness**
- Standby/on-site readiness time is eligible only during the Emergency Operations Activation Period and while assigned to an approved and deployed emergency operations team.
- **Off-site on-call time** (e.g., at home or otherwise free to leave) is **not considered hours worked** unless the employee is **actively deployed**.
- All standby time must be:
    - **Documented with justification**, and
    - Supported by **time records and supervisory approval**

Compensation Provisions

When the Emergency Operations Activation Period overlaps with an employee's normal work schedule, compensation shall be applied as follows:

- **Regularly Scheduled Hours:**
  All employees shall receive **standard compensation at their regular rate of pay** for hours worked within their normal scheduled work hours.
- **Hourly (Non-Exempt) Employees:**
  Hours worked **outside of the employee's regularly scheduled work hours** as part of assigned emergency operations shall be compensated at the employee's **regular hourly rate plus time-and-one-half (1.5x)**.
- **Salaried (Exempt) Employees:**
  When assigned to emergency operations, shall receive compensation calculated at their **equivalent hourly rate plus time-and-one-half (1.5x)** for eligible hours worked outside their normal schedule, in accordance with this pre-established policy.
- Premium compensation applies only to incremental hours worked beyond the employee's established normal work schedule.

Limitations

- Premium pay applies only during assigned emergency operations shifts and within the approved activation period
- Work performed:
  - Outside assigned emergency operations
  - After formal deactivation
  - As part of long-term or permanent recovery
    shall be compensated under standard District pay policies
- Standby time must be reasonable and necessary.

Documentation and Compliance

The District must maintain the following documentation for internal documentation and potential FEMA reimbursement:

- Employee time records showing actual hours worked
- Emergency team assignments and schedules

- Description of work performed demonstrating disaster-related activities

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: Job Description Changes

Meeting Date: June 15, 2026

Agenda Item # 3F

☐ **CONSENT** ☐ **ACTION** ☐ **OLD BUSINESS** ☐ **NEW BUSINESS**

Request Initiated By: ☐ **COMMISSIONER** _____ ☐ **ATTORNEY**

☐ **BOARD** ☐ **MANAGER** ☐ **ENGINEER** ☐ **AUDITOR**

1 Recommended motion: Move to approve the Mowing Director job description.

2 What the action accomplishes: Provides for a coordinator/ROW/Bridge crew/ supervisor position needed to accelerate each of the processes.

3 Fiscal Impact:

4 Staff comments: This position is possible by the re-purposing of an HR position deemed not necessary by the Resource and Relations Director.

5 Staff review and recommended approval:

☐ **MANAGER** ☐ **ASSISTANT DISTRICT MGR**

☐ **ATTORNEY** ☐ **FIELD SUPERINTENDENT**

☐ **ENGINEER** ☐ **CONTROLLER**

6 Board Action:

☐ **APPROVED** ☐ **DENIED** ☐ **DEFERRED**

Lehigh Acres Municipal Services Improvement District
Job Description

Job Title:	Mowing Operations Supervisor
Department:	2-Field/Canal Maintenance
Pay Grade:	17
Reports To:	Field Director
FLSA Status:	Non-Exempt
Bargaining Status:	Bargaining
Prepared By:	David Lindsay and Resource & Relations Director
Prepared On:	June 2026
Approved by:	Board of Commissioners
Modified Date:	July 1, 2026

SUMMARY: Oversees the Districts Mowing and Grounds Maintenance Operations, ensuring the District properties are serviced efficiently and all safety protocols are followed. This is a full-time safety sensitive position and complies with the District's Alcohol and Drug Free Workplace Policy.

Receives written work orders or verbal instructions from the Field Director, Assistant District Manager or District Manager.

EDUCATION AND EXPERIENCE: High School Diploma or general education degree (GED) required; Must have at least 12 years of experience which includes demonstrated proficiency in the operation of assigned equipment and extensive knowledge of the District's mowing system.

CERTIFICATES, LICENSES, REGISTRATIONS:

External Hire: Must complete FWPCOA Stormwater A, and FSA II, AND Sediment and Erosion Control Course within 90 days taking into consideration the budgetary requirements of the Department and the scheduling needs of the employees as determined by the Department Head and the District Manager. Must complete spill response training and complete management training with certificate from an approved course or institution within 90 days. Must possess and maintain a valid Florida Commercial Driver's License; Class "B" with Hazmat and Air Brake Endorsements.

Any certifications, licenses, etc. required as part of the job is the responsibility of the employee during the 90-day probationary period; once an employee has reached regular status they may submit these certifications for reimbursement.

All licenses, certifications, etc. must be kept current and active unless otherwise documented from the department head.

Internal Hire: Must have a certificate of completion from FWPCOA Stormwater A, and FSA II, AND Sediment and Erosion Control Course taking into the consideration the budgetary requirements of the Department and the scheduling needs of the employees as determined by the Department Head and the District Manager. Must have certificates of completion in spill response training and complete management training with certificate from an approved course or institution within 90 days. Must possess and maintain a valid Florida Commercial Driver's License; Class "B" with Hazmat and Air Brake Endorsements.

All licenses, certifications, etc. must be kept current and active unless otherwise documented from the department head.

SUPERVISORY RESPONSIBILITIES: Supervise tractor operators and grounds maintenance personnel. During non-mowing season, supervisor the Bridge Crew and/or Black Pipe ROW Access Crew.

REQUIREMENTS:

Operating knowledge of Excel, Word, Access, ArcView and Auto Cad.

Ability to create databases and produce reports.

Basic Surveying skills needed

Must have the ability to create maps of District facilities showing areas of concern

Must have ability to perform thorough research.

Must be able to read blueprints and construction drawings and be familiar with legal descriptions and right-of-way maps.

Must be familiar with and understand the information contained in the facilities map and associated District studies and be able to secure information from them if needed.

The ability to acquire an excellent knowledge of the District's canals, lakes, culvert crossings and roads within a reasonable amount of time.

Must possess good communication skills both oral and written and must be comfortable and effective in dealing with District staff and the general public.

ESSENTIAL DUTIES AND RESPONSIBILITIES:
Duties may include, but are not limited to the following:

Perform inspections to the mowing circuit sites ahead of crews to identify areas of non-compliance within the districts right-of-way's and competently correct or ticket non-compliant properties.

Participate in actual field production work as needed. Perform mowing services and oversee mowing practices.

Visit job sites on a regular basis, observing organization of work, identifying and resolving training issues, and taking necessary actions to ensure quality.

Train employees in mowing and grounds maintenance operations including all safety protocols and operating procedures. Ensure crews wear appropriate PPE and operate Machinery safely.

Keep thorough and accurate records on databases and produce detailed reports for staff.

Must have ability to read and interpret plat information.

Must be able to prepare concise and accurate responses related to interests the District may hold on or adjacent to certain legally described parcels.

Create and send follow-up letters when necessary.

Review Lee County Plats to assure proper Lehigh Acres MSID right-of-way identification and/or right-of-way acquisition.

Works within Lehigh Acres Municipal Services Improvement District's working hours and the District's Policies and Procedures Manual. Must be able to perform duties and tasks with minimal supervision.

Install signs on various right of way areas.

Other duties that may be required but are not limited to the operation of district equipment within the fleet. May perform additional duties when called upon by department heads.

SOFTWARE REQUIREMENTS: Must be fluent in the word processing, spreadsheet and database programs that the District uses. Must be fluent in the GIS software the District is using as creating shape layers for various activities within the field.

LANGUAGE SKILLS: Ability to read and comprehend simple instructions, short correspondence and memos. Ability to read and interpret documents such as safety rules, operating and maintenance instructions manuals. Ability to write complex correspondence which may include quoting State of Florida Laws and Statutes and interpretation of same.

Ability to effectively present information in one-on-one and small group situations. Ability to write concise letters or reports. May be given a skills assessment test.

MATHEMATICAL SKILLS: Ability to add, subtract, multiply and divide in all units of measure, using whole numbers, common fractions and decimals. Ability to compute rate, ration and percent and to draw and interpret bar graphs. May be given a skills assessment test.

REASONING ABILITY: Ability to apply common sense understanding to carry out instructions furnished in written, oral or diagram form. Ability to deal with problems involving several concrete variables in standardized situations. May be given a skills assessment test.

PHYSICAL DEMANDS: The physical demands described herein are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to walk on rights-of-way or slopes and enter and exit a vehicle, stand, walk, climb or balance, stoop, kneel, crouch or crawl; talk and hear and sit at a computer for lengths of time. The employee must occasionally lift and/or move up to 50 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus.

WORK ENVIRONMENT: The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly exposed to wet and/or humid conditions; moving mechanical parts; high, precarious places; extreme heat; and vibration. The employee is frequently exposed to fumes or airborne particles, outside weather conditions, and extreme cold. The employee is occasionally exposed to toxic or caustic chemicals and risk of electrical shock. The noise level in the work environment is usually loud. The employee will occasionally be required to wear safety equipment. This equipment will be dictated by the type of work or work environment.

Change Log:

- Revised 2017/07/27 – Scrivener's error in memo dated 2014-09 regarding certifications for Stormwater training.
- Changed East County Water Control District to Lehigh Acres Municipal Services Improvement District in the title.
- Changed Canal Maintenance Manager to Field Operations Director.
- Changes font to Times New Roman.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: Purchase of Parcel

Meeting Date: 15-Jun-26

Agenda Item # 3G

☐ **CONSENT** ☒ **ACTION** ☐ **OLD BUSINESS** ☐ **NEW BUSINESS**

Request Initiated By: ☐ **SUPERVISOR** _____ ☐ **ATTORNEY**

☐ **BOARD** ☐ **MANAGER** ☐ **ENGINEER** ☐ **AUDITOR**

1 Recommended motion: Move to approve that the Manager make an offer to purchase the 0.25-acre parcel from the Seven the Day Church of God, for $25,000.

2 What the action accomplishes: Provides for a small purchase of land that will make the Leeland Bottomless Lake parcel whole and to make our maintenance road contiguous from the gate to the sinkhole.

3 Fiscal Impact: $25,000.00

4 Staff comments:

5 Staff review and recommended approval:

☐ **MANAGER** ☐ **ASSISTANT DISTRICT MGR**

☐ **ATTORNEY** ☐ **COMPTROLLER**

☐ **ENGINEER** ☐ **WATER RESOURCE MGR.**

6 Board Action:

☐ **APPROVED** ☐ **DENIED** ☐ **DEFERRED**

From: Darren Townsend
To: Dave Lindsay; dschroeder@aimengr.com; Mike Cook
Cc: Lisa Waskiewicz; Randy Hudson
Subject: RE: Sinkhole
Date: Wednesday, June 3, 2026 8:30:24 AM
Attachments: image005.png
image007.png
image008.png
image009.png

David,

We have a preliminary geometry calculated for the church parcel. Please see the green line work below.

We focused on keeping the area at 0.25 acres. Please let us know if you would like to make any adjustments. If everything looks good, we'll get the legal and sketch going.

Thank you,

Darren Townsend, PSM
Survey Manager, **AIM Engineering & Surveying, Inc.**
P: 239.284.1912 | M: 239.336.9199 | www.aimengr.com
Bartow | Fort Myers | Jacksonville | Orlando | Tampa

AIM ENGINEERING & SURVEYING, INC.
Celebrating 45 years of excellence!

From: Dave Lindsay <DLindsay@la-msid.com>
Sent: Thursday, May 28, 2026 11:27 AM
To: Daniel Schroeder <dschroeder@aimengr.com>; Mike Cook <MCook@la-msid.com>
Cc: Lisa Waskiewicz <LWaskiewicz@la-msid.com>; Darren Townsend <dtownsend@aimengr.com>
Subject: RE: Sinkhole

EXTERNAL SENDER: Use caution with links and attachments.

Today (all day open), Monday
(not between 1:00 and 3:30), or Tuesday
(not between 12:00 and 2:30), next week.

David Lindsay

EAST COUNTY WATER CONTROL DISTRICT

AGENDA ITEM SUMMARY

Subject: Contract Amendment - SFWMD

Meeting Date: 15-Jun-26

Agenda Item # 3H

☐ **CONSENT** ☒ **ACTION** ☐ **OLD BUSINESS** ☐ **NEW BUSINESS**

Request Initiated By: ☐ **SUPERVISOR** _____ ☐ **ATTORNEY**

☐ **BOARD** ☐ **MANAGER** ☐ **ENGINEER** ☐ **AUDITOR**

1 Recommended motion: Move to approve Amendment #2 to SFWMD Contract 4600005172.

2 What the action accomplishes: Provides for changes to the statement of work such as moving "forming a filter marsh with littoral plantings and trees" from Phase I to phase II.

3 Fiscal Impact: N/A

4 Staff comments:

5 Staff review and recommended approval:

☐ **MANAGER** ☐ **ASSISTANT DISTRICT MGR**

☐ **ATTORNEY** ☐ **COMPTROLLER**

☐ **CANAL MAINT. MGR.** ☐ **WATER RESOURCE MGR.**

☐ **ENGINEER**

6 Board Action:

☐ **APPROVED** ☐ **DENIED** ☐ **DEFERRED**

SOUTH FLORIDA WATER MANAGEMENT DISTRICT AMENDMENT

4600005172-A02

AMENDMENT NO. 02

TO AGREEMENT NO. 4600005172

BETWEEN THE

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

AND

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

This **AMENDMENT NO. 02,** is entered into on _____ to that Agreement dated July 31, 2025, and as amended on August 25, 2025 (A01), between "the Parties," the South Florida Water Management District (District), and Lehigh Acres Municipal Services Improvement District (LA-MSID).

Background

1. The Governing Board of the District at its March 13, 2025 meeting, approved entering into this Agreement with the Parties for the Frank Mann Preserve Water Quality Improvement Project.

2. The term of the Agreement is through December 31, 2028, or the date of expiration of the Grant Award, whichever occurs later.

3. The Parties amended the Agreement to extend the period of performance (A01) of the Agreement.

4. The Parties wish to amend the Agreement to revise the Statement of Work the Agreement.

Terms and Conditions

5. This **AMENDMENT NO. 02** shall be effective upon the date of execution by the Parties.

6. This **AMENDMENT NO. 02** shall be at no additional cost to the District.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT AMENDMENT

7. The Statement of Work, attached as Exhibit "A" to the Agreement is hereby deleted in its entirety and replaced with Exhibit "A1", attached hereto and made a part of this **AMENDMENT NO. 02**.

8. All other terms and conditions of the Agreement remain unchanged.

IN WITNESS WHEREOF, the Parties or their duly authorized representatives hereby execute this **AMENDMENT NO. 02** on the date first written above.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

By: _____

Candida Heater, Director
Administrative Services Division

SFWMD PROCUREMENT APPROVED
BY: _____
DATE: June 1, 2026

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

By: _____

Title: _____

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
EXHIBIT A1
Statement of Work

Frank Mann Preserve Project

A. INTRODUCTION/BACKGROUND

On January 5, 2024, Governor Ron DeSantis awarded more than $30 million in state funding to support six water quality projects in the Caloosahatchee River Watershed. These projects will help address excess nutrients, which are known to contribute to increased algal blooms, by investing in wastewater and stormwater infrastructure. A total of $15.5 million was awarded to the Lehigh Acres Municipal Services Improvement District (LA-MSID) for water quality and stormwater storage improvements for one of the six projects known as the Frank Mann Preserve Water Quality Improvement Project aka Frank Mann Preserve Project.

The 627-acre Frank Mann Preserve Project (FMPP) also known as Greenbrier Swamp/Section-10 (GS-10) is located in Lee County, Florida at 1699 Joel Boulevard Lehigh Acres, Florida. The FMPP is a joint agency water quality and water storage initiative between the Lee County Board of County Commissioners (Lee County) and the LA-MSID. The FMPP is comprised of a former excavated sand mine formerly known as Section 10 (Figure 1) and connects with Greenbriar Swamp and adjacent Canal Network as outlined in the Interagency Agreement between Lee County and LA-MSID for the project (Figure 2).

The Caloosahatchee River is a documented impaired waterbody of the State for Nitrogen. The Caloosahatchee River and the Southwest Florida Region are facing several issues:

- Blue green algae outbreaks
- Increased occurrence of Red Tide
- Impacts to estuaries as a result of the increase of freshwater flows into the river in the rainy season
- A need for increased storage of surface water/precipitation resulting from major storm events such as Hurricane Irma

This project will provide flood protection, aquifer recharge and water quality benefits for the Caloosahatchee River, Lehigh Acres, and the entire Southwest Florida region.

Figure 1. FMPP Existing Conditions

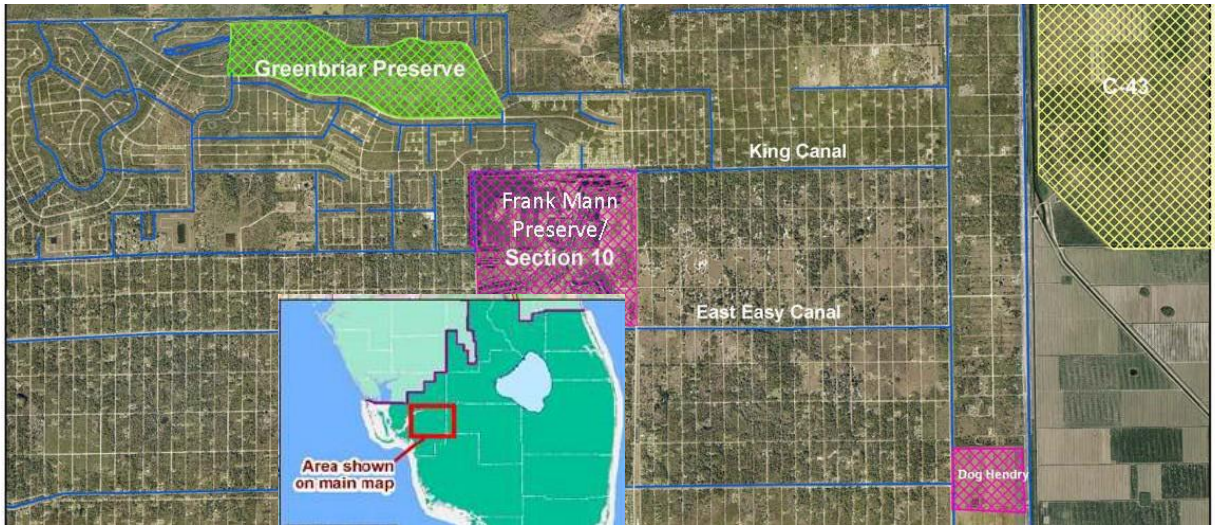

Figure 2. Generalized Location of FMPP within LA-MSID Service Area

The FMPP is a multi-year project consisting of two (2) phases that are being constructed on a 627-acre Lee County Conservation 20/20 property. To date, LA-MSID has completed a $100,000 preliminary engineering study for the Frank Mann Preserve Project and has also completed a $10,000 Conceptual Plan Study. LA-MSID has awarded a $385,000 design contract to AIM Engineering & Surveying, Inc. (AIM) for Phase I. The overall project is expected to do the following:

- Provide **deep water storage** of an additional 3,000- 4,000 acre-feet per year of stormwater in Frank Mann Preserve to help reduce freshwater discharges to the Caloosahatchee River Estuary during the wet season.
- Provide **natural systems/water quality**. Discharges will flow through the created filtration in Frank Mann Preserve and the natural filtration system of Greenbriar Swamp to achieve superior water quality.
- Provide **flood control** within Lehigh Acres MSID's boundaries, as well as along Bedman Creek and Hickey's Creek.
- Create a functional stormwater system connection between multiple drainage basins.
- Provide recreational and wildlife enhancement opportunities as an ancillary benefit. The recreational/park infrastructure will be provided by Lee County Parks and Recreation.

Frank Mann Preserve is partially open to the public for recreational use. Currently allowed activities include kayaking & canoeing, fishing, bird watching, and walking in limited open areas. The remaining areas are closed off for construction activities.

B. OBJECTIVES

The project objective is to provide flood protection, aquifer recharge, and water quality benefits for the Caloosahatchee River, Lehigh Acres, and the entire Southwest Florida region while providing public recreational opportunities.

The FMPP proposes to reconfigure an existing mine lake into a filter marsh for stormwater treatment and a storage reservoir for flood control, as shown in the conceptual plan below (Figure 3). The site currently functions as a disconnected stormwater reservoir. The project will interconnect multiple drainage basins within the LA-MSID service area (Figure 4) to facilitate the movement, storage, and release of stormwater at various optimal times throughout the year. This will be accomplished by constructing water control structures to direct additional stormwater into the reservoir from existing canals. A perimeter berm will also provide a consistent water control boundary elevation to safely contain peak stages during severe storm events. For example, stored water may be diverted into the Greenbriar Swamp for extending wetland hydro-periods. This conceptual project controls flow in a six-square-mile area with weirs to control discharges and utilizes the mine lake as a stormwater detention basin. The total nutrient reduction from Phases 1 and 2 combined is 2.53 mt/year of Total Nitrogen and 0.71 mt/year of Total Phosphorus.

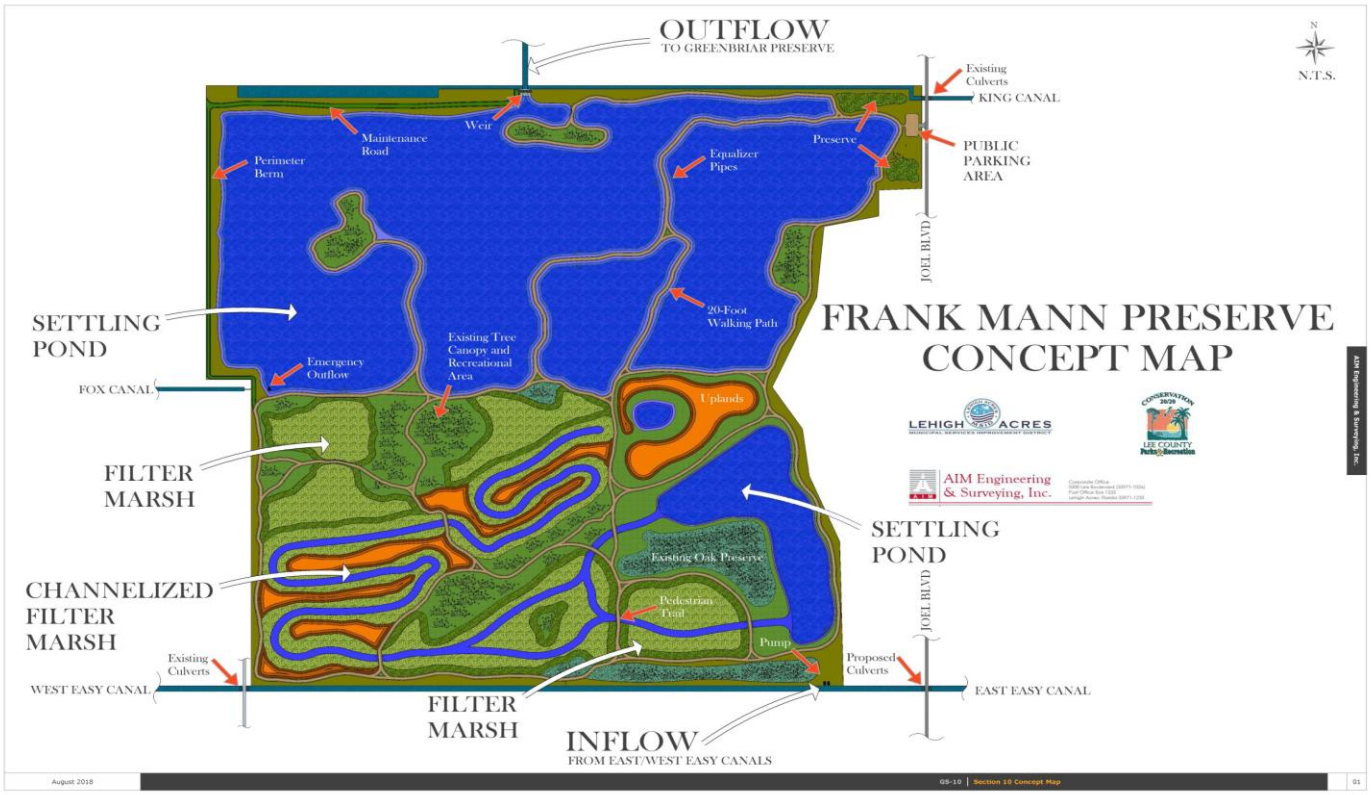

Figure 3. Conceptual Design Plan

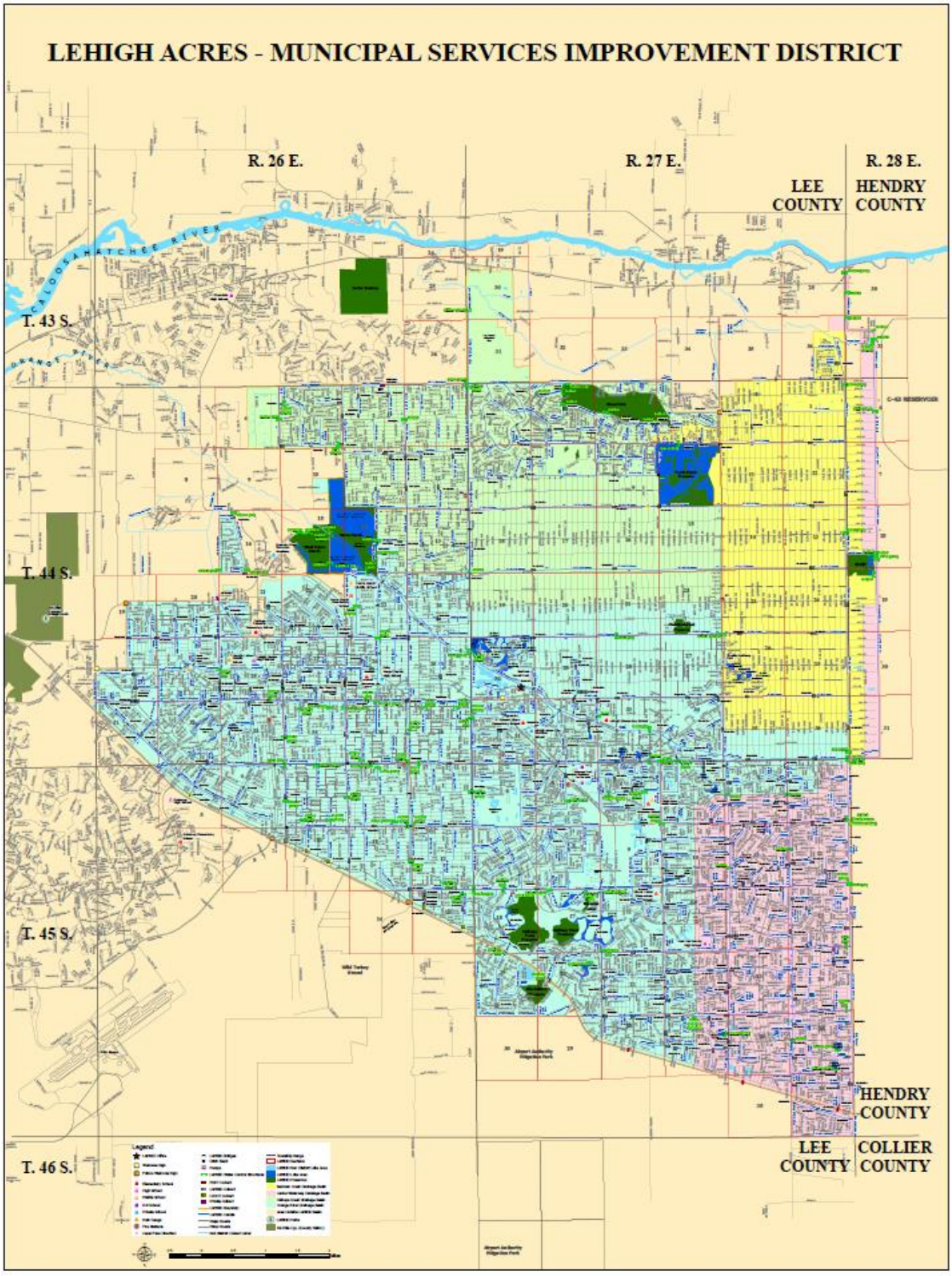

Figure 4. Interconnected Basins: Hickey's Creek Drainage Basin (Green), Orange River Drainage Basin (Blue), Bedman Creek Drainage Basin (Yellow), and Carlos Waterway Drainage Basin (Pink)

C. SCOPE OF WORK

The project consists of two major phases, as identified below:

PHASE 1: *Final design, permitting and construction.*

The design of Phase 1 was funded by LAMSID and is near complete, and consists of the following components:

- Construct a perimeter berm to provide a consistent water control boundary elevation to safely contain peak stages during severe storm events.
- Conduct exotic vegetation removal, interior excavation, and grading for efficient stormwater storage regulation, and forming of a filter marsh with littoral plantings and trees.
- Install three major inflow and outflow water control structures, three minor interior water control structures to control flow and storage functionality, and one minor exterior water control structure at Fox Canal for system discharge flexibility.
- Install a water quality pump station at the SE location, allowing for consistent flow volume through filter marsh and deep-water storage areas.
- Provides 1,100 acre-ft of stormwater storage.
- Nutrient reduction is 2.30 mt/year Total Nitrogen and 0.68 mt/year Total Phosphorus.
- This phase includes fees associated with finalizing the design, permitting, post-design, bidding, and construction-phase services.

PHASE 2: *Final design, permitting and construction.*

Phase 2 includes the full build out for the Frank Mann Preserve design and construction for full utilization of the system's capacity to store stormwater and mitigate flooding, while providing regular water quality improvements.

- Complete/Conduct Design, permitting, and construction.
- Add pumps to NE and SW intake/discharge locations (if verified by additional modeling as beneficial). Once flood peak stages exceed gravity flow capacity, these additional two (2) pumps may allow for the additional stormwater volume to be stored on-site.
- Internal Improvements: Potentially install two (2) additional intake pump stations. Lee County to install recreational facilities such as pedestrian boardwalks.
- External Improvements: Greenbriar outfall weir replacement, culverts under East Easy Canal & ditch block, three (3) small weirs in catchment basins to direct flows to FMPP.
- Phase 2- Additional 300 ac-ft of stormwater storage in Greenbriar Preserve after modifying the Greenbriar discharge structure plus additional storage in 3,800-acre

catchment basins (exact amount of storage to be modeled).
- Nutrient reduction is 0.23mt/year Total Nitrogen and 0.03 mt/year Total Phosphorus.

D. WORK BREAKDOWN STRUCTURE

The work breakdown structure associated with this project is described below.

Phase 1

TASK 1 - Phase 1: Final Design & Permitting

The Recipient (LA-MSID) shall be responsible for completing and obtaining final project design, construction plans, and specifications; obtaining all required state, local, federal stormwater, wetlands and wildlife and development permits (including right of access to the project sites) related to project construction and subsequent operation and maintenance of the completed work; and assuring compliance with all permits and permit conditions.

The Recipient shall schedule quarterly progress meetings with the South Florida Water Management District (SFWMD) project manager (PM) overseeing the grant funding, and any other SFWMD staff as appropriate. The Recipient shall copy the SFWMD PM and other SFWMD staff as appropriate on any communication/reporting with permitting agencies.

Upon completion of the final design and permitting, the recipient shall submit to the SFWMD PM an electronic copy of the following documents, as applicable:

1. Copies of any applicable permits, and a list of all required permits identifying issue dates and issuing authorities.
2. Final engineering design documents issued for construction, such as engineering plans, technical specifications, drawings, and construction-level details, including professional certification as applicable. The technical specifications will include a description of the evidence that will be required to show that the contractor has furnished and/or installed the item of work per the technical specifications.
3. Quality Control Plan, including the measures the Recipient will implement to ensure the technical specifications are met.
4. A Construction Schedule that corresponds with the Schedule of Values (Loaded Construction Schedule). See attached appendix/exhibit for the estimated construction cost and schedule.

TASK 2 - Phase 1: Final Bidding and Construction

The Recipient shall be responsible for providing procurement for project construction; performing supervision and inspection of construction; performing construction contract

administration; and assuring compliance with cost accounting practices and procedures required for reimbursement of cost share funds expended.

The recipient shall submit to the SFWMD PM an electronic copy of the following documents, as applicable:

- Electronic copy of public notice of advertisement for the bid.
- Electronic copy of the bid package, and written notice of selected contractor.
- Timely invoices for actual post-design/bidding and construction costs in accordance with this cost share agreement (i.e. no more frequent than quarterly, with appropriate substantiation that demonstrates that the Recipient has paid for the total work cost) to enable proper review by the SFWMD PM prior to payment authorization. Deliverables to be submitted with invoices include Proof of incurred expenses: Timesheets, hotel, meals, travel expenses (tolls, car rentals receipts, etc.), materials, labor, and/or services utilized.
- Status reports summarizing progress made to date including inspections, meeting minutes and field notes, and date-stamped color photographs of the construction site during the period being reported. Date-stamped photographs of the site shall be provided prior to, during and immediately following completion of the construction.
- Final invoice submittals for completed construction including inspections.
- Written verification that the record drawings and any required final inspection reports for the project are received.
- Contractor coordination activities in relation to the approved Loaded Schedule of Values.
- Inspection reports performed by the engineering of record (EOR) and samples of the evidence and measures that verify that the work items were furnished and/or installed per the design documents and technical specifications.
- Any deviations from the approved Project Schedule, and causes for such deviation, shall be identified and described by the Recipient.
- Final project bid amount and/or vendor estimates, and any regulatory Notice to Proceed.
- If the project includes well drilling and testing, deliverables to be submitted with the invoice must consist of electronic copies of all hydrogeologic data collected in a SFWMD specified format. An electronic copy of the SFWMD specified format is available via email. Contact the appropriate SFWMD PM to request a copy.
- Certification of construction and As-Built drawings completed by a Professional Engineer registered in the state of Florida, and documentation of acceptance of the engineering certification by the regulatory agencies. Include as-built engineering checklist, as-built tolerances, etc.

Phase 2

TASK 3 - Phase 2: Planning, Design, and Permitting Administration

The Recipient shall be responsible for completing and obtaining final project design, construction plans, and specifications; obtaining all required state, local, federal stormwater, wetlands and wildlife and development permits (including right of access to the project sites) related to project construction and subsequent operation and maintenance of the completed work; and assuring compliance with all permits and permit conditions.

The recipient shall schedule quarterly progress meetings with the South Florida Water Management District (SFWMD) project manager (PM) overseeing the grant funding, and any other SFWMD staff as appropriate. The recipient shall copy the SFWMD PM and other SFWMD staff as appropriate on any communication/reporting with permitting agencies.

TASK 4 - Phase 2: Surveying and Data Collection

Surveying and data collection sub-tasks shall include completion of the following items:

- Collect road and canal cross-sections for the various design areas.
- Establish and set permanent Horizontal and Vertical control points assigned with state plan coordinates for construction using GPS and conventional leveling procedures.
- Perform a Boundary Survey and tie to state plane coordinates to overlay on survey topographic files.
- Produce a Digital Terrain Model using AutoCAD Civil 3D with contours for quantity calculations. This file will be prepared for inclusion into the construction plan set.

TASK 5 - Phase 2: Geotechnical Analysis

Geotechnical Analysis shall include completion of the following items: (A full Geotech report for the whole site from a licensed Geotech firm is recommended)

- Perform a geotechnical investigation at the proposed water control structure locations. Provide an electronic copy of the final geotechnical analysis report.
- Include two Standard Penetration Tests (SPT) soil borings to a depth of approximately 25-40 feet.
- Perform two Open-Hole Falling Head Exfiltration Tests.
- Based on the geotechnical investigation results, assess the suitability of the in-site soils to support the proposed weir structure(s) and for use as backfill on the site.

TASK 6 - Phase 2: Regional Modeling

Phase 2 Regional Modeling shall include completion of the following items:

- Calibrate the LAMSID MIKE SHE/MIKE 11 model to include relevant existing

conditions.

- Model design storms and continuous simulations to confirm the feasibility of a gravity inflow system or to identify the need for severe weather stormwater pumps.
- Model proposed conditions, including the proposed upgrades to the Greenbriar structure, as well as water control structures in East Easy, West Easy, and King Canals.
- Prepare a technical memorandum to document the calibration check and any changes made to improve calibration. The technical memorandum will describe the existing conditions simulations, hydrologic changes associated with three alternatives and recommended hydrologic improvements of the FMPP.
- Summary of results from the Regional Modeling

TASK 7 - Phase 2: Design, including Engineering, Environmental and Electrical Engineering

Phase 2 Design shall include completion of the following items:

- Prepare a complete set of construction plans (including, at minimum, a Cover Sheet, Aerial Photography, Plan Sheet, Cross Sections, General Notes, Erosion Control Details, and Erosion Control Notes) for the following design elements:
    - Greenbriar Structure (S-GB-1) replacement, enhancement, and modernization to adequately regulate flows from the FMPP discharge.
    - Culvert replacement at Joel Boulevard
    - Water Control Structures to direct flow to the project area (East Easy and Dog Canal, West Easy and Hickey's Creek, King Canal and Dog Canal)
- Interior water quality enhancements, such as stormwater aerators, nutrient removing filter systems, floating treatment wetland islands, etc.
- Equipment yard storage aera to house LAMSID equipment used for maintenance.
- Planting plan to supplement natural internal recruitment of native vegetation to mitigate exotic vegetation growth.
- Site electrical survey and design of electrical distribution plans for the various water control structures. Construction drawings and any required permits for electrical distribution system.
- Environmental Permitting for the various Phase 2 design elements (habitat mapping, listed species surveys, environmental reports, historical/archaeological resource information/surveys, wetland and other surface water impact and mitigation/preservation maps, mitigation and monitoring plans, wetland functional assessments, etc.).

TASK 8 - Phase 2: Final Design and Permits

Upon completion of the final design and permitting, the recipient shall submit to the SFWMD PM an electronic copy of the following documents, as applicable:

1. Copies of any applicable permits, and a list of all required permits identifying issue dates and issuing authorities.
2. Final engineering design documents issued for construction, such as engineering plans, technical specifications, drawings, and construction-level details, including professional certification as applicable. The technical specifications will include a description of the evidence that will be required to show that the contractor has furnished and/or installed the item of work per the technical specifications.
3. Quality Control Plan, including the measures the Recipient will implement to ensure the technical specifications are met.
4. A Construction Schedule that corresponds with the Schedule of Values (Loaded Construction Schedule). See attached appendix/exhibit for the estimated construction cost and schedule.

TASK 9 - Phase 2: Final Bidding and Construction

The Recipient shall be responsible for providing procurement for project construction; performing supervision and inspection of construction; performing construction contract administration; and assuring compliance with cost accounting practices and procedures required for reimbursement of cost share funds expended.

The Recipient shall submit to the SFWMD PM an electronic copy of the following documents, as applicable:

- Electronic copy of the public notice of advertisement for the bid.
- Electronic copy of the bid package, and written notice of selected contractor.
- Timely invoices for actual post-design/bidding and construction costs in accordance with this cost share agreement (i.e. no more frequent than quarterly, with appropriate substantiation that demonstrates that the Recipient has paid for the total work cost) to enable proper review by the SFWMD's Project Manager prior to payment authorization. Deliverables to be submitted with invoices include Proof of incurred expenses: Timesheets, hotel, meals, travel expenses (tolls, car rentals receipts, etc.), materials, labor, and/or services utilized.
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- Written verification that the record drawings and any required final inspection reports for the project are received.
- Contractor coordination activities in relation to the approved Loaded Schedule of Values.

- Inspection reports performed by the engineering of record (EOR) and samples of the evidence and measures that verify that the work items were furnished and/or installed per the design documents and technical specifications.
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FRANK MANN PRESERVE PROJECT

The schedule set forth below is effective upon execution by the SFWMD and the Recipient.

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documentation of staff time or other proof of staff time expenses for the Project. Recipient may invoice no more frequently than quarterly, submitting all required documentation. Recipient may invoice the SFWMD quarterly for the complete work-in-progress beginning no earlier than the execution date of this agreement.

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Task No.	Deliverable*	Date Due	Cost
TASK 1	Final Design & Permitting	June-2027	$189,869
TASK 2	Final Bidding and Construction	Dec-2028	$6,002,131
	Quarterly Reports submitted to SFWMD	Quarterly	N/A
	Total Phase 1		$6,192,000
TASK 3	Planning, Design, and Permitting Admin.	July-2029	$30,000
TASK 4	Surveying and Data Collection	Nov-2026	$ 60,000
TASK 5	Geotechnical Analysis	Sep-2026	$70,000
TASK 6	Regional Modeling	Dec-2026	$200,000
TASK 7	Engineering Design	Feb-2027	$360,000
TASK 8	Final Design and Permits	Aug-2027	$75,000
TASK 9	Final Bidding and Construction	August-2029	$8,513,000
	Quarterly Reports submitted to SFWMD	Quarterly	N/A
	Total Phase 2		$9,308,000
Total Project Cost			**$15,500,000**

*Invoices to be paid quarterly.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
EXHIBIT A
Statement of Work

Frank Mann Preserve Project

A. INTRODUCTION/BACKGROUND

On January 5, 2024, Governor Ron DeSantis awarded more than $30 million in state funding to support six water quality projects in the Caloosahatchee River Watershed. These projects will help address excess nutrients, which are known to contribute to increased algal blooms, by investing in wastewater and stormwater infrastructure. A total of $15.5 million was awarded to the Lehigh Acres Municipal Services Improvement District (LA-MSID) for water quality and stormwater storage improvements for one of the six projects known as the Frank Mann Preserve Water Quality Improvement Project aka Frank Mann Preserve Project.

The 627-acre Frank Mann Preserve Project (FMPP) also known as Greenbrier Swamp/Section-10 (GS-10) is located in Lee County, Florida at 1699 Joel Boulevard Lehigh Acres, Florida. The FMPP is a joint agency water quality and water storage initiative between the Lee County Board of County Commissioners (Lee County) and the LA-MSID. The FMPP is comprised of a former excavated sand mine formerly known as Section 10 (Figure 1) and connects with Greenbriar Swamp and adjacent Canal Network as outlined in the Interagency Agreement between Lee County and LA-MSID for the project (Figure 2).

The Caloosahatchee River is a documented impaired waterbody of the State for Nitrogen. The Caloosahatchee River and the Southwest Florida Region are facing several issues:

- Blue green algae outbreaks
- Increased occurrence of Red Tide
- Impacts to estuaries as a result of the increase of freshwater flows into the river in the rainy season
- A need for increased storage of surface water/precipitation resulting from major storm events such as Hurricane Irma

This project will provide flood protection, aquifer recharge and water quality benefits for the Caloosahatchee River, Lehigh Acres, and the entire Southwest Florida region.

Figure 1. FMPP Existing Conditions

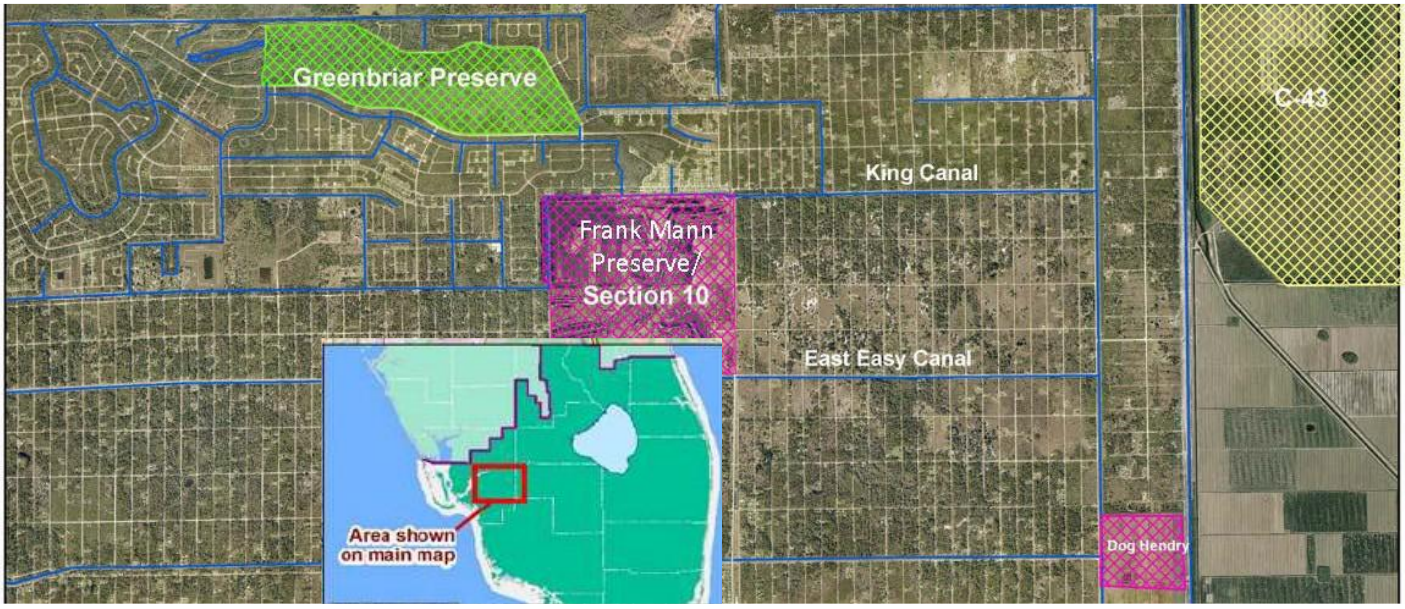

Figure 2. Generalized Location of FMPP within LA-MSID Service Area

The FMPP is a multi-year project consisting of two (2) phases that are being constructed on a 627-acre Lee County Conservation 20/20 property. To date, LA-MSID has completed a $100,000 preliminary engineering study for the Frank Mann Preserve Project and has also completed a $10,000 Conceptual Plan Study. LA-MSID has awarded a $385,000

design contract to AIM Engineering & Surveying, Inc. (AIM) for Phase I. The overall project is expected to do the following:

- Provide **deep water storage** of an additional 3,000- 4,000 acre-feet per year of stormwater in Frank Mann Preserve to help reduce freshwater discharges to the Caloosahatchee River Estuary during the wet season.
- Provide **natural systems/water quality**. Discharges will flow through the created filtration in Frank Mann Preserve and the natural filtration system of Greenbriar Swamp to achieve superior water quality.
- Provide **flood control** within Lehigh Acres MSID's boundaries, as well as along Bedman Creek and Hickey's Creek.
- Create a functional stormwater system connection between multiple drainage basins.
- Provide recreational and wildlife enhancement opportunities as an ancillary benefit. The recreational/park infrastructure will be provided by Lee County Parks and Recreation.

Frank Mann Preserve is partially open to the public for recreational use. Currently allowed activities include kayaking & canoeing, fishing, bird watching, and walking in limited open areas. The remaining areas are closed off for construction activities.

B. OBJECTIVES

The project objective is to provide flood protection, aquifer recharge, and water quality benefits for the Caloosahatchee River, Lehigh Acres, and the entire Southwest Florida region while providing public recreational opportunities.

The FMPP proposes to reconfigure an existing mine lake into a filter marsh for stormwater treatment and a storage reservoir for flood control, as shown in the conceptual plan below (Figure 3). The site currently functions as a disconnected stormwater reservoir. The project will interconnect multiple drainage basins within the LA-MSID service area (Figure 4) to facilitate the movement, storage, and release of stormwater at various optimal times throughout the year. This will be accomplished by constructing water control structures to direct additional stormwater into the reservoir from existing canals. A perimeter berm will also provide a consistent water control boundary elevation to safely contain peak stages during severe storm events. For example, stored water may be diverted into the Greenbriar Swamp for extending wetland hydro-periods. This conceptual project controls flow in a six-square-mile area with weirs to control discharges and utilizes the mine lake as a stormwater detention basin. The total nutrient reduction from Phases 1 and 2 combined is 2.53 mt/year of Total Nitrogen and 0.71 mt/year of Total Phosphorus.

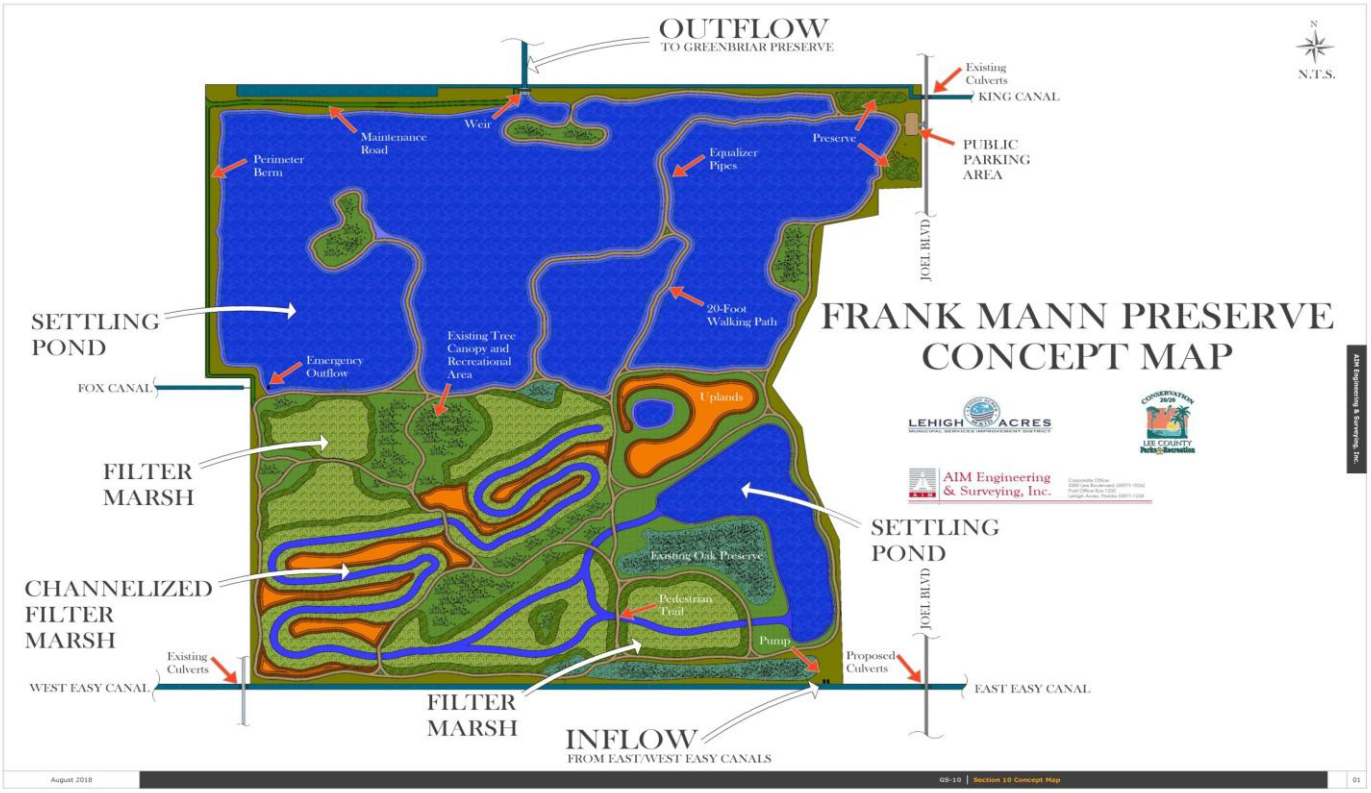

Figure 3. Conceptual Design Plan

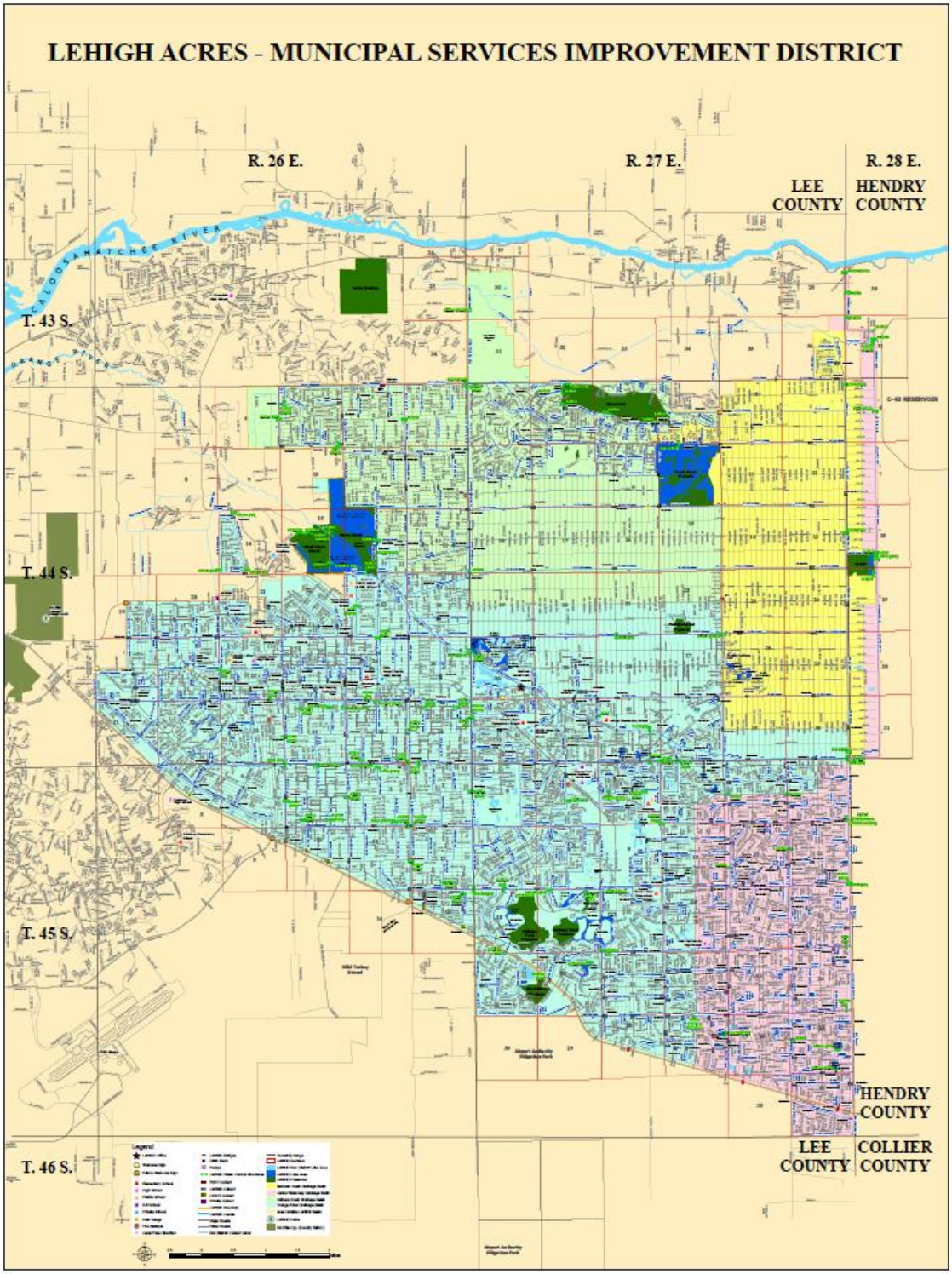

Figure 4. Interconnected Basins: Hickey's Creek Drainage Basin (Green), Orange River Drainage Basin (Blue), Bedman Creek Drainage Basin (Yellow), and Carlos Waterway Drainage Basin (Pink)

C. SCOPE OF WORK

The project consists of two major phases, as identified below:

PHASE 1: *Final design, permitting and construction.*

The design of Phase 1 was funded by LAMSID and is near complete, and consists of the following components:

- Construct a perimeter berm to provide a consistent water control boundary elevation to safely contain peak stages during severe storm events.
- Conduct exotic vegetation removal, ~~limited~~ interior excavation, and grading for efficient stormwater storage regulation, and forming of a filter marsh with littoral plantings and trees.~~.~~
- Install three major inflow and outflow water control structures, three minor interior water control structures to control flow and storage functionality, and one minor exterior water control structure at Fox Canal for system discharge flexibility.
- Install a water quality pump station at the SE location, allowing for consistent flow volume through filter marsh and deep-water storage areas.
- Provides 1,100 acre-ft of stormwater storage.
- Nutrient reduction is 2.30 mt/year Total Nitrogen and 0.68 mt/year Total Phosphorus.
- This phase includes fees associated with finalizing the design, permitting, post-design, bidding, and construction-phase services.

PHASE 2: *Final design, permitting and construction.*

Phase 2 includes the full build out for the Frank Mann Preserve design and construction for full utilization of the system's capacity to store stormwater and mitigate flooding, while providing regular water quality improvements.

- Complete/Conduct Design, permitting, and construction.
- Add pumps to NE and SW intake/discharge locations (if verified by additional modeling as beneficial). Once flood peak stages exceed gravity flow capacity, these additional two (2) pumps may allow for the additional stormwater volume to be stored on-site.
- Internal Improvements: ~~conduct additional excavation, p~~Potentially install two (2) additional intake pump stations. ~~, littoral plantings, and~~ Lee County to install recreational facilities such as pedestrian boardwalks.
- External Improvements: Greenbriar outfall weir replacement, culverts under East Easy Canal & ditch block, three (3) small weirs in catchment basins to direct flows to FMPP.
- Phase 2- Additional 300 ac-ft of stormwater storage in Greenbriar Preserve after modifying the Greenbriar discharge structure plus additional storage in 3,800-

acre catchment basins (exact amount of storage to be modeled).
- Nutrient reduction is 0.23mt/year Total Nitrogen and 0.03 mt/year Total Phosphorus.

D. WORK BREAKDOWN STRUCTURE

The work breakdown structure associated with this project is described below.

Phase 1

TASK 1 - Phase 1: Final Design & Permitting

The Recipient (LA-MSID) shall be responsible for completing and obtaining final project design, construction plans, and specifications; obtaining all required state, local, federal stormwater, wetlands and wildlife and development permits (including right of access to the project sites) related to project construction and subsequent operation and maintenance of the completed work; and assuring compliance with all permits and permit conditions.

The Recipient shall schedule quarterly progress meetings with the South Florida Water Management District (SFWMD) project manager (PM) overseeing the grant funding, and any other SFWMD staff as appropriate. The Recipient shall copy the SFWMD PM and other SFWMD staff as appropriate on any communication/reporting with permitting agencies.

Upon completion of the final design and permitting, the recipient shall submit to the SFWMD PM an electronic copy of the following documents, as applicable:

1. Copies of any applicable permits, and a list of all required permits identifying issue dates and issuing authorities.
2. Final engineering design documents issued for construction, such as engineering plans, technical specifications, drawings, and construction-level details, including professional certification as applicable. The technical specifications will include a description of the evidence that will be required to show that the contractor has furnished and/or installed the item of work per the technical specifications.
3. Quality Control Plan, including the measures the Recipient will implement to ensure the technical specifications are met.
4. A Construction Schedule that corresponds with the Schedule of Values (Loaded Construction Schedule). See attached appendix/exhibit for the estimated construction cost and schedule.

TASK 2 - Phase 1: Final Bidding and Construction

The Recipient shall be responsible for providing procurement for project construction; performing supervision and inspection of construction; performing construction contract administration; and assuring compliance with cost accounting practices and procedures required for reimbursement of cost share funds expended.

The recipient shall submit to the SFWMD PM an electronic copy of the following documents, as applicable:

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- Electronic copy of the bid package, and written notice of selected contractor.
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- Certification of construction and As-Built drawings completed by a Professional Engineer registered in the state of Florida, and documentation of acceptance of the engineering certification by the regulatory agencies. Include as-built engineering checklist, as-built tolerances, etc.

Phase 2

TASK 3 - Phase 2: Planning, Design, and Permitting Administration

The Recipient shall be responsible for completing and obtaining final project design, construction plans, and specifications; obtaining all required state, local, federal stormwater, wetlands and wildlife and development permits (including right of access to the project sites) related to project construction and subsequent operation and maintenance of the completed work; and assuring compliance with all permits and permit conditions.

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TASK 4 - Phase 2: Surveying and Data Collection

Surveying and data collection sub-tasks shall include completion of the following items:

- Collect road and canal cross-sections for the various design areas.
- Establish and set permanent Horizontal and Vertical control points assigned with state plan coordinates for construction using GPS and conventional leveling procedures.
- Perform a Boundary Survey and tie to state plane coordinates to overlay on survey topographic files.
- Produce a Digital Terrain Model using AutoCAD Civil 3D with contours for quantity calculations. This file will be prepared for inclusion into the construction plan set.

TASK 5 - Phase 2: Geotechnical Analysis

Geotechnical Analysis shall include completion of the following items: (A full Geotech report for the whole site from a licensed Geotech firm is recommended)

- Perform a geotechnical investigation at the proposed water control structure locations. Provide an electronic copy of the final geotechnical analysis report.
- Include two Standard Penetration Tests (SPT) soil borings to a depth of approximately 25-40 feet.
- Perform two Open-Hole Falling Head Exfiltration Tests.
- Based on the geotechnical investigation results, assess the suitability of the in-site soils to support the proposed weir structure(s) and for use as backfill on the site.

TASK 6 - Phase 2: Regional Modeling

Phase 2 Regional Modeling shall include completion of the following items:

- Calibrate the LAMSID MIKE SHE/MIKE 11 model to include relevant existing conditions.
- Model design storms and continuous simulations to confirm the feasibility of a gravity inflow system or to identify the need for severe weather stormwater pumps.
- Model proposed conditions, including the proposed upgrades to the Greenbriar structure, as well as water control structures in East Easy, West Easy, and King Canals.
- Prepare a technical memorandum to document the calibration check and any changes made to improve calibration. The technical memorandum will describe the existing conditions simulations, hydrologic changes associated with three alternatives and recommended hydrologic improvements of the FMPP.
- Summary of results from the Regional Modeling

TASK 7 - Phase 2: Design, including Engineering, Environmental and Electrical Engineering

Phase 2 Design shall include completion of the following items:

- Prepare a complete set of construction plans (including, at minimum, a Cover Sheet, Aerial Photography, Plan Sheet, Cross Sections, General Notes, Erosion Control Details, and Erosion Control Notes) for the following design elements:
    - Greenbriar Structure (S-GB-1) replacement, enhancement, and modernization to adequately regulate flows from the FMPP discharge.
    - Culvert replacement at Joel Boulevard
    - Water Control Structures to direct flow to the project area (East Easy and Dog Canal, West Easy and Hickey's Creek, King Canal and Dog Canal)
- Interior water quality enhancements, such as stormwater aerators, nutrient removing filter systems, floating treatment wetland islands, etc.
- Equipment yard storage aera to house LAMSID equipment used for maintenance.
- Planting plan to supplement natural internal recruitment of native vegetation to mitigate exotic vegetation growth.
- Site electrical survey and design of electrical distribution plans for the various water control structures. Construction drawings and any required permits for electrical distribution system.
- Environmental Permitting for the various Phase 2 design elements (habitat mapping, listed species surveys, environmental reports, historical/archaeological resource information/surveys, wetland and other surface water impact and mitigation/preservation maps, mitigation and monitoring plans, wetland functional assessments, etc).

TASK 8 - Phase 2: Final Design and Permits

Upon completion of the final design and permitting, the recipient shall submit to the SFWMD PM an electronic copy of the following documents, as applicable:

1. Copies of any applicable permits, and a list of all required permits identifying issue dates and issuing authorities.
2. Final engineering design documents issued for construction, such as engineering plans, technical specifications, drawings, and construction-level details, including professional certification as applicable. The technical specifications will include a description of the evidence that will be required to show that the contractor has furnished and/or installed the item of work per the technical specifications.
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TASK 4	Surveying and Data Collection	Nov~~May~~-2026	$ 60,000
TASK 5	Geotechnical Analysis	~~Mar~~Sep-2026	$70,000
TASK 6	Regional Modeling	~~Aug~~Dec-2026	$2~~50,000~~00,000
TASK 7	Engineering Design	Feb-2027	$~~400,000~~360,000
TASK 8	Final Design and Permits	Aug-2027	$75,000
TASK 9	Final Bidding and Construction	May-2029	$8,513,000
	Quarterly Reports submitted to SFWMD	Quarterly	N/A

	Total Phase 2		$9,~~398~~308,000
Total Project Cost			**$15,500,000**

*Invoices to be paid quarterly.

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: Evaluation of Manager

Meeting Date: June 15, 2026

Agenda Item # 4A1

☐ **CONSENT** ☒ **ACTION** ☐ **OLD BUSINESS** ☐ **NEW BUSINESS**

Request Initiated By: ☐ **COMMISSIONER** _____ ☐ **ATTORNEY**

☐ **BOARD** ☐ **MANAGER** ☐ **ENGINEER** ☐ **AUDITOR**

1 Recommended motion: N/A

2 What the action accomplishes: Provides for a forum to discuss the Manager's performance over the prior year.

3 Fiscal Impact:

4 Staff comments:

5 Staff review and recommended approval:

☐ **MANAGER** ☐ **ASSISTANT DISTRICT MGR**

☐ **ATTORNEY** ☐ **FIELD SUPERINTENDENT**

☐ **ENGINEER** ☐ **CONTROLLER**

6 Board Action:

☐ **APPROVED** ☐ **DENIED** ☐ **DEFERRED**

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: 2026 Legislative Appropriation

Meeting Date: June 15, 2026

Agenda Item # 4A2

☐ **CONSENT** ☐ **ACTION** ☒ **OLD BUSINESS** ☐ **NEW BUSINESS**

Request Initiated By: ☐ **COMMISSIONER** _____ ☐ **ATTORNEY**

☐ **BOARD** ☒ **MANAGER** ☐ **ENGINEER** ☐ **AUDITOR**

1 Recommended motion: N/A

2 What the action accomplishes: Provides a forum to dicuss the 2026 Legislative Appropriation for the RISE Project. The Legislature did fund it, but we have to wait for the Governor's axe to pass us by.

3 Fiscal Impact:

4 Staff comments:

5 Staff review and recommended approval:

☒ **MANAGER** ☒ **ASSISTANT DISTRICT MGR**

☒ **ATTORNEY** ☐ **FIELD DIRECTOR**

☐ **ENGINEER** ☐ **FINANCE DIRECTOR**

6 Board Action:

☐ **APPROVED** ☐ **DENIED** ☐ **DEFERRED**

A bill to be entitled

An act making appropriations; providing moneys for the annual period beginning July 1, 2026, and ending June 30, 2027, and supplemental appropriations for the period ending June 30, 2026, to pay salaries, and other expenses, capital outlay - buildings, and other improvements, and for other specified purposes of the various agencies of state government; providing effective dates.

Be It Enacted by the Legislature of the State of Florida:

The moneys contained herein are appropriated from the named funds for Fiscal Year 2026-2027 to the state agency indicated, as the amounts to be used to pay the salaries, other operational expenditures, and fixed capital outlay of the named agencies, and are in lieu of all moneys appropriated for these purposes in other sections of the Florida Statutes.

SECTION 1 - EDUCATION ENHANCEMENT "LOTTERY" TRUST FUND

The moneys contained herein are appropriated from the Education Enhancement "Lottery" Trust Fund to the state agencies indicated.

EDUCATION, DEPARTMENT OF

Funds provided in sections 1 and 2 of this act as Grants and Aids-Special Categories or as Grants and Aids-Aid to Local Governments may be advanced quarterly throughout the fiscal year based on projects, grants, contracts, and allocation conference documents. Of the funds provided in Specific Appropriations 59, 60 through 63, 65 through 71 and 163, 60 percent of general revenue shall be released at the beginning of the first quarter and the balance at the beginning of the third quarter.

PROGRAM: EDUCATION - FIXED CAPITAL OUTLAY

1 FIXED CAPITAL OUTLAY
DEBT SERVICE - CLASS SIZE REDUCTION
LOTTERY CAPITAL OUTLAY PROGRAM
FROM EDUCATIONAL ENHANCEMENT TRUST
FUND 72,559,186

Funds in Specific Appropriation 1 shall be transferred using nonoperating budget authority to the Lottery Capital Outlay and Debt Service Trust Fund, pursuant to section 1013.71, Florida Statutes, for the payment of debt service. There is appropriated from the Lottery Capital Outlay and Debt Service Trust Fund, an amount sufficient to enable the payment of debt service resulting from these transfers.

Funds in Specific Appropriation 1 are for Fiscal Year 2026-2027 debt service on all bonds authorized pursuant to section 1013.737, Florida Statutes, for class size reduction, including any other continuing payments necessary or incidental to the repayment of the bonds. These funds may be used to refinance any or all bond series if it is in the best interest of the state as determined by the Division of Bond Finance.

2 FIXED CAPITAL OUTLAY
EDUCATIONAL FACILITIES
FROM EDUCATIONAL ENHANCEMENT TRUST
FUND 6,328,962

Funds in Specific Appropriation 2 for educational facilities are provided for debt service requirements associated with bond proceeds from the Lottery Capital Outlay and Debt Service Trust Fund included in Specific Appropriations 17 and 17A of chapter 2012-118, Laws of Florida, authorized pursuant to section 1013.737, Florida Statutes.

Funds in Specific Appropriation 2 shall be transferred, using nonoperating budget authority, to the Lottery Capital Outlay and Debt Service Trust Fund. There is hereby appropriated from the Lottery Capital Outlay and Debt Service Trust Fund an amount sufficient to enable the payment of debt service resulting from these transfers.

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1762	SPECIAL CATEGORIES		
	TRANSFER TO DEPARTMENT OF MANAGEMENT SERVICES - HUMAN RESOURCES SERVICES PURCHASED PER STATEWIDE CONTRACT		
	FROM GENERAL REVENUE FUND	8,921	
	FROM FEDERAL GRANTS TRUST FUND . . .		15,328
	FROM LAND ACQUISITION TRUST FUND . .		1,632
	FROM WATER PROTECTION AND SUSTAINABILITY PROGRAM TRUST FUND .		2,460
	FROM WATER QUALITY ASSURANCE TRUST FUND		2,402
1763	FIXED CAPITAL OUTLAY		
	RESTORE ACT - DEEPWATER HORIZON OIL SPILL		
	FROM FEDERAL GRANTS TRUST FUND . . .		77,605,000
1764	FIXED CAPITAL OUTLAY		
	NATURAL RESOURCE DAMAGE RESTORATION - FINAL RESTORATION - DEEPWATER HORIZON OIL SPILL		
	FROM COASTAL PROTECTION TRUST FUND .		3,000,000
1765	FIXED CAPITAL OUTLAY		
	SPRINGS RESTORATION		
	FROM LAND ACQUISITION TRUST FUND . .		50,000,000

Funds in Specific Appropriation 1765 may be used for land acquisition to protect springs and for capital projects that protect the quality and quantity of water that flow from springs.

1766	FIXED CAPITAL OUTLAY		
	HAZARDOUS WASTE CONTAMINATED SITE CLEANUP		
	FROM WATER QUALITY ASSURANCE TRUST FUND		10,000,000
1766A	GRANTS AND AIDS TO LOCAL GOVERNMENTS AND NONSTATE ENTITIES - FIXED CAPITAL OUTLAY		
	GRANTS AND AIDS - WATER PROJECTS		
	FROM GENERAL REVENUE FUND	30,391,337	
	FROM WATER PROTECTION AND SUSTAINABILITY PROGRAM TRUST FUND .		350,000,000

From the funds in Specific Appropriation 1766A, $350,000,000 in nonrecurring funds from the Water Protection and Sustainability Trust Fund and $30,391,337 in nonrecurring funds from the General Revenue Fund are provided for the following water projects:

Altamonte Springs Upgrading and Expanding the Reuse Augmentation Facility (HF 1359) (SF 1273).....	2,000,000
Apopka Master Lift Station #017 Replacement (HF 1161) (SF 2762).....	1,250,000
Aquatic Restoration and Conservation Alliance - Indian River Lagoon Seagrass & Water Quality Recovery Initiative (HF 3283) (SF 3607).....	1,250,000
Aquatic Restoration and Conservation Alliance - No Name Key Coral and Caribbean King Crab Aquaculture Center (HF 2808) (SF 3420).....	925,000
Arcadia Downtown Stormwater Improvements (HF 1909) (SF 3664).....	500,000
Arcadia Mills Avenue Drainage Improvement (HF 1910) (SF 3665).....	750,000
Arcadia Wastewater Treatment Plant (HF 1911) (SF 3530)....	1,500,000
Atlantic Beach Dora Drive Stormwater Mitigation Pond (HF 2919) (SF 2707).....	212,500
Atlantic Beach Marshside Septic Tank Elimination Phase 2 (HF 2918) (SF 3324).....	200,000
Atlantic Beach Sherman Creek Dredging (HF 2921) (SF 2704).	650,000
Auburndale Alternative Water Supply Pipeline (HF 3235) (SF 2319).....	750,000
Aventura Country Club Drive Roadway and Stormwater Resilience Improvement (HF 3326) (SF 1984).....	250,000
Baker Water System Improvements (HF 1005).....	500,000
Bal Harbour Camden Drive Sanitary Sewer Replacement (HF 3332) (SF 1400).....	748,188
Bay County - Nelson Seawall and Outfitting Berth Phase 2 (HF 3507) (SF 3102).....	500,000

SECTION 5 - NATURAL RESOURCES/ENVIRONMENT/GROWTH MANAGEMENT/TRANSPORTATION

Lakeland San Gully Drainage Stabilization Project (HF 2778) (SF 2315)	1,000,000
Lakeland Septic to Sewer Conversion Project (HF 2779) (SF 2317)	1,000,000
Largo Allen's Creek Flood Mitigation Project (HF 1728) (SF 2499)	600,000
Lauderdale Lakes Canal 3 Stormwater Conveyance and Water Quality Improvement Project (HF 2199) (SF 3600)	900,000
Lauderdale Lakes Gated Outfalls and Flow Skimmers Implementation Project - Phase I (HF 1560) (SF 2742)	250,000
Lauderdale-by-the-Sea Bougainvilla Drive and Poinciana Street Improvements (HF 3790) (SF 3379)	375,000
Lauderhill Lift Station 47 Rehabilitation (HF 1721) (SF 2744)	567,500
Laurel Hill Water System Improvements (HF 1004)	1,000,000
Lee County - Fort Myers Beach Water Reclamation Facility Restoration & Enhancement (HF 1389) (SF 2431)	2,500,000
Lee County Southeast Force Main (FM) Improvements - Segment 2 (HF 1403) (SF 2842)	2,000,000
Lehigh Acres Municipal Services Improvement District - RISE Resilient Infrastructure for Stormwater & Environment (HF 2641) (SF 3055)	3,554,300
Leon County - Woodville Sewer Project Phase 2 (HF 3644) (SF 3328)	1,500,000
Levy County Replacement of University Oaks System Mains (HF 2858) (SF 2930)	425,000
Lighthouse Point Stormwater Improvement Project - Priority Area 1 Stormwater Master Plan (HF 3423) (SF 1666)	500,000
Lower St. Johns River Submerged Aquatic Vegetation Restoration Project Phase 2 (HF 1116) (SF 2588)	2,000,000
Loxahatchee Groves Stormwater System Rehabilitation Phase lll (HF 1772) (SF 2066)	375,000
Lynn Haven East Side Wetland Park (HF 1141) (SF 3247)	250,000
Madison Water and Sewer Line Replacement (HF 2988) (SF 1515)	1,000,000
Marathon Deep Injection Well Project (HF 1627) (SF 1202)	2,500,000
Margate Stormwater Infrastructure Assessment and Rehabilitation (HF 2364) (SF 1176)	350,000
Mary Esther Highway 98 Water Main Replacement and System Upgrades (HF 1188) (SF 3196)	775,000
Meadowood Estates Stormwater Pump Station Generator (HF 3069) (SF 2283)	500,000
Medley NW 116th Way Drainage Improvements (HF 2602) (SF 2214)	250,000
Miami Beach Alton Road Reconstruction 907 (HF 3318) (SF 1778)	900,000
Miami Beach West Ave Phase III (HF 3126) (SF 1779)	900,000
Miami Dade County Greynolds Raptor Center's Septic-to-Sewer Project (HF 3529) (SF 2389)	77,103
Miami East Flagami Flood Mitigation (Pump Station) (HF 2219) (SF 1747)	1,500,000
Miami Lakes NW 79th Avenue Drainage Improvements (HF 1182) (SF 2182)	500,000
Miami Lakes NW 82nd Avenue Drainage Improvements (HF 1181) (SF 2183)	1,365,000
Miami-Dade County Enhancing Efficiency and Reliability at Regional Wastewater Plant (HF 1661) (SF 1823)	750,000
Miami-Dade County Flood and Stormwater Services through Tree Enhancements on Public Land (HF 3122) (SF 1584)	750,000
Miami-Dade County Stormwater Local Drainage Improvement on SW 22 ST from SW 67 AVE to SW 67 CT (HF 2124) (SF 1753)	93,500
Miami-Dade County Stormwater Local Drainage Improvement Project for Grand Ave from Brooker Street to Jefferson Street (HF 3550) (SF 1304)	112,500
Miami-Dade County Water and Sewer Critical Infrastructure Security Enhancements (HF 1660) (SF 1834)	2,000,000
Miami-Dade Stormwater Local Drainage Improvement on SW 117 (HF 3386) (SF 1412)	137,500
Milton Wastewater Treatment Plant Directional Drill Project (HF 2830) (SF 3457)	1,500,000
Miramar - Supervisory Control and Data Acquisition Cybersecurity Improvement (HF 1444) (SF 1084)	150,000
Miramar Lift Station improvements, upgrades, and rehabilitation (HF 1857) (SF 1303)	375,000
Moore Haven Marina Seawall Expansion Economic Development	

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: Leeland Bottomless Lake Building

Meeting Date: June 15, 2026

Agenda Item # 4A3

☐ **CONSENT** ☐ **ACTION** ☒ **OLD BUSINESS** ☐ **NEW BUSINESS**

Request Initiated By: ☐ **COMMISSIONER** _____ ☐ **ATTORNEY**

☐ **BOARD** ☒ **MANAGER** ☐ **ENGINEER** ☐ **AUDITOR**

1 Recommended motion: N/A

2 What the action accomplishes: Provides for a forum to discuss the progress for the interpretive Center's likelyhood of being located on LA-MSID's 19-acre sinkhole parcel. So far, we have good verbal notification.

3 Fiscal Impact:

4 Staff comments:

5 Staff review and recommended approval:

☒ **MANAGER** ☒ **ASSISTANT DISTRICT MGR**

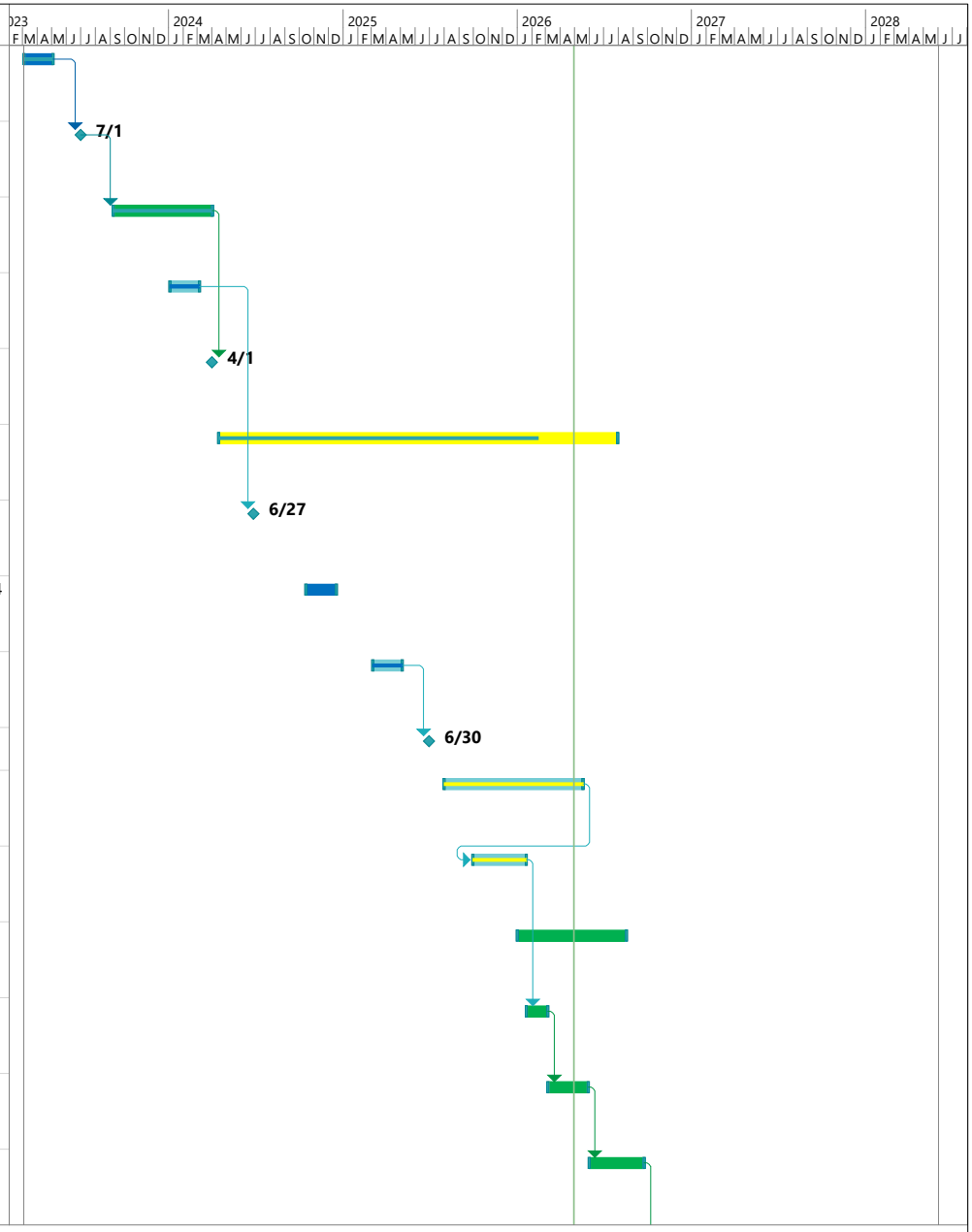
☒ **ATTORNEY** ☐ **FIELD DIRECTOR**

☐ **ENGINEER** ☐ **FINANCE DIRECTOR**

6 Board Action:

☐ **APPROVED** ☐ **DENIED** ☐ **DEFERRED**

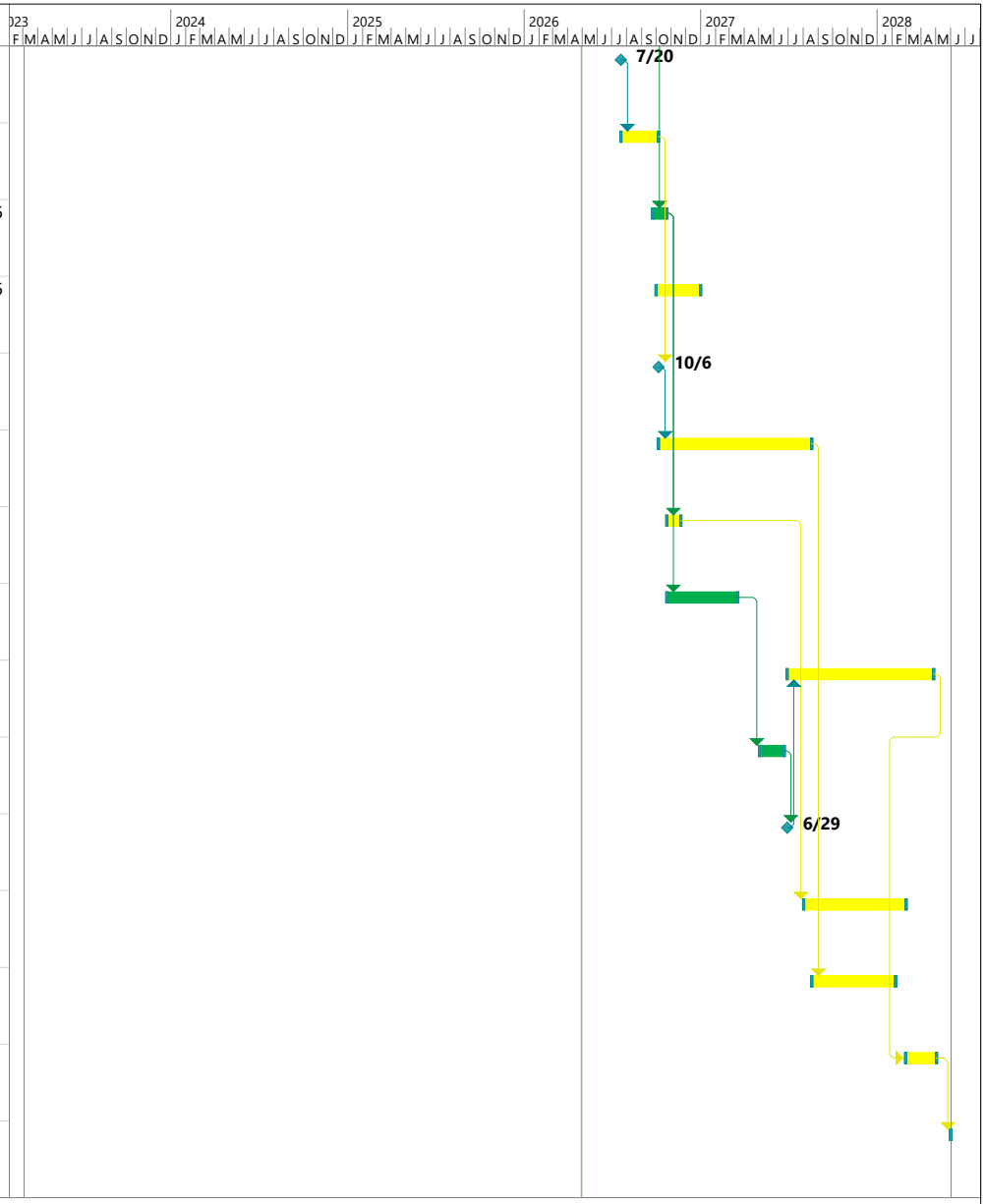
ID	Task Mode	LEELAND BOTTOMLESS LAKE DEVELOPMENT	Duration	Start	Finish
1		Sinkhole Legislative Appropriation to Purchase	44 days	Sat 3/4/23	Wed 5/3/23
2		Governor's Approval	0 days	Sat 7/1/23	Sat 7/1/23
3		FDEP Contract to Purchase 19 Acres	148 days	Thu 9/7/23	Mon 4/1/24
6		Sinkhole Legislative Appropriation for Interpretive Center & Dev. 1	44 days	Thu 1/4/24	Tue 3/5/24
4		Purchase of Sinkhole	0 days	Mon 4/1/24	Mon 4/1/24
5		Eradication of Non-native Vegetation	599 days	Mon 4/15/24	Thu 7/30/26
7		Governor's Veto	0 days	Thu 6/27/24	Thu 6/27/24
10		Gain Consent from Lee County	46 days	Tue 10/15/24	Tue 12/17/24
8		Sinkhole Legislative Appropriation for Interpretive Center & Dev. 2	45 days	Tue 3/4/25	Sun 5/4/25
9		Governor's Approval	0 days	Mon 6/30/25	Mon 6/30/25
29		Letter from FDEP Citing Potential Limitation of New Interpretive Center on Sinkhole Parcel	207 days	Fri 8/1/25	Mon 5/18/26
12		Board Discussion of Interpretive Center Options	80 days	Tue 9/30/25	Mon 1/19/26
13		Negotiation and Agreement with Condo Assn.	163 days	Thu 1/1/26	Mon 8/17/26
11		LLW Discussions with FDEP Attorneys	33 days	Tue 1/20/26	Thu 3/5/26
19		FDEP Attorney Determination Letter of approval for Interpretive Center on Sinkhole Parcel	61 days	Fri 3/6/26	Fri 5/29/26
14		Negotiation, Approval of Grant Agreement	83 days	Mon 6/1/26	Wed 9/23/26



Project: Leeland Lake Gantt Cha
Date: Thu 4/30/26

Task	Project Summary	Manual Task	Start-only	Deadline
Split	Inactive Task	Duration-only	Finish-only	Progress
Milestone	Inactive Milestone	Manual Summary Rollup	External Tasks	Manual Progress
Summary	Inactive Summary	Manual Summary	External Milestone	

ID	Task Mode	LEELAND BOTTOMLESS LAKE DEVELOPMENT	Duration	Start	Finish
18		Hire Attorney to help formulate Friends of Leeland Bottomless Lake	0 days	Mon 7/20/26	Mon 7/20/26
20		Develop Documents for Friends Group and Approval	56 days	Mon 7/20/26	Mon 10/5/26
16		Hire Design, Build Contractor for Interpretive Center	21 days	Thu 9/24/26	Thu 10/22/26
17		Advertisement and Build Fence	66 days	Thu 10/1/26	Thu 12/31/26
15		Inaugural Meeting of the Friends of Leland Bottomless Lake	0 days	Tue 10/6/26	Tue 10/6/26
31		Application for Exploration Funding	227 days	Tue 10/6/26	Wed 8/18/27
21		AIM Contract & Design of Site Plan	21 days	Fri 10/23/26	Fri 11/20/26
22		Interpretive Center Planning and Final Design	105 days	Fri 10/23/26	Thu 3/18/27
26		Construction of Site	217 days	Tue 6/29/27	Wed 4/26/28
24		RFP and Hiring for Local Contractor to Build	37 days	Mon 5/3/27	Tue 6/22/27
25		Ribbon-cutting Ceremony	0 days	Tue 6/29/27	Tue 6/29/27
23		Construction of Interpretive Center	152 days	Mon 8/2/27	Tue 2/29/28
30		Initiation of Scientific Exploration	123 days	Thu 8/19/27	Mon 2/7/28
27		Equipment Purchase	46 days	Tue 2/29/28	Tue 5/2/28
28		Grand Opening of Interpretive Center	1 day	Thu 6/1/28	Thu 6/1/28



Project: Leeland Lake Gantt Cha
Date: Thu 4/30/26

Task	Project Summary	Manual Task	Start-only	Deadline
Split	Inactive Task	Duration-only	Finish-only	Progress
Milestone	Inactive Milestone	Manual Summary Rollup	External Tasks	Manual Progress
Summary	Inactive Summary	Manual Summary	External Milestone

BOUNDARY SURVEY

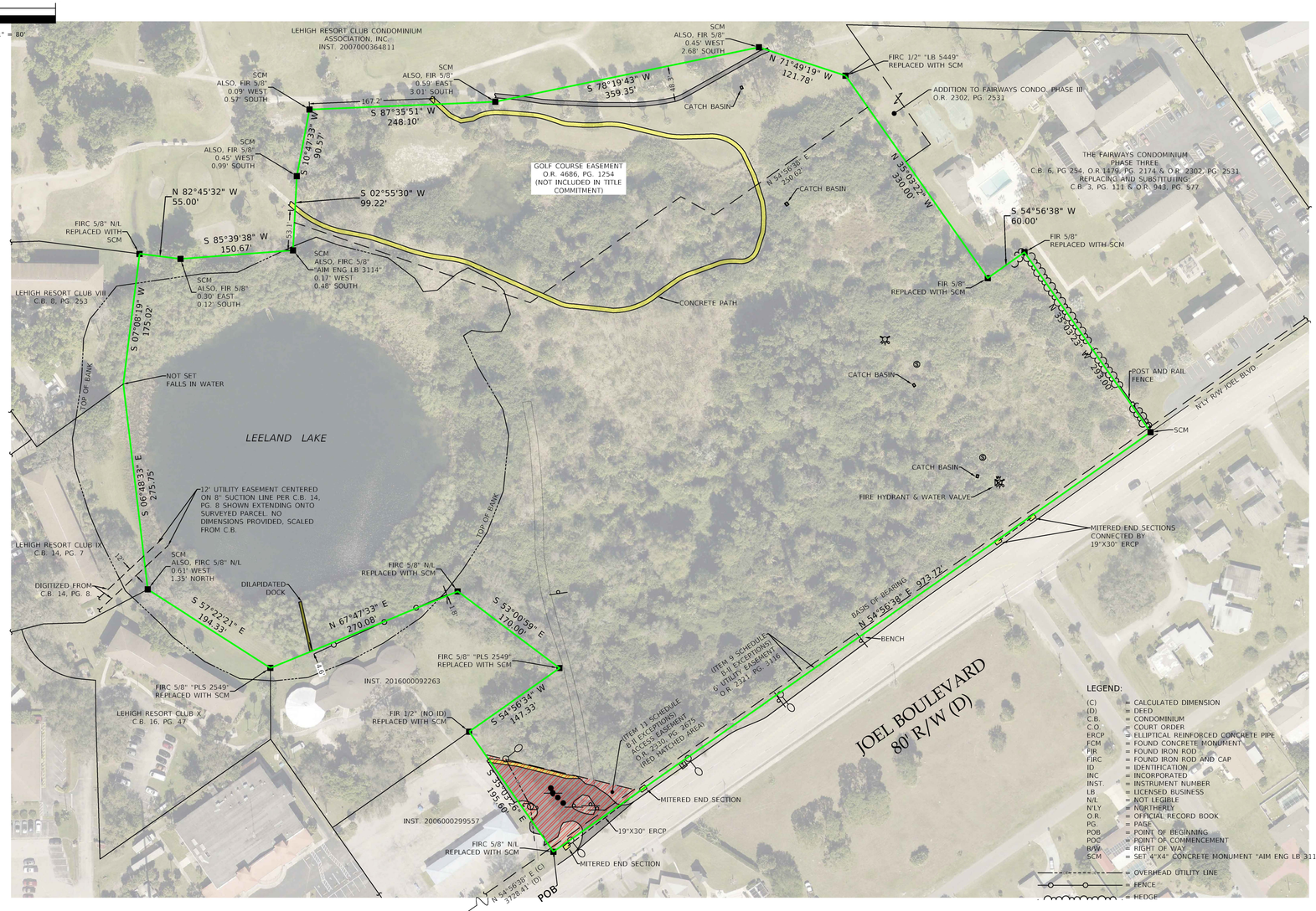
LEELAND LAKE PARCEL

SECTION 34, TOWNSHIP 44 SOUTH, RANGE 27 EAST

LEHIGH ACRES, FLORIDA

80 0 40 80 160

INTENDED DISPLAY SCALE: 1" = 80'



LEGEND:

(C)	= CALCULATED DIMENSION
(D)	= DEED
C.B.	= CONDOMINIUM
C.O.	= COURT ORDER
ERCP	= ELLIPTICAL REINFORCED CONCRETE PIPE
FCM	= FOUND CONCRETE MONUMENT
FIR	= FOUND IRON ROD
FIRC	= FOUND IRON ROD AND CAP
ID	= IDENTIFICATION
INC	= INCORPORATED
INST.	= INSTRUMENT NUMBER
LB	= LICENSED BUSINESS
N/L	= NOT LEGIBLE
N'LY	= NORTHERLY
O.R.	= OFFICIAL RECORD BOOK
PG.	= PAGE
POB	= POINT OF BEGINNING
POC	= POINT OF COMMENCEMENT
R/W	= RIGHT OF WAY
SCM	= SET 4"X4" CONCRETE MONUMENT "AIM ENG LB 3114"
	= OVERHEAD UTILITY LINE
	= FENCE
	= HEDGE
	= BOLLARD
	= FIRE HYDRANT
	= LIGHT POLE
	= SEWER MANHOLE
	= SINGLE SUPPORT SIGN
	= TELEPHONE SERVICE RISER
	= WATER VALVE COVER
	= UTILITY POLE
	= ASPHALT
	= CONCRETE
	= DIRT DRIVEWAY

DESCRIPTION PER TITLE COMMITMENT:

A TRACT OF LAND, LYING IN SECTION 34, TOWNSHIP 44 SOUTH, RANGE 27 EAST, LEE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 34; THENCE NORTH 00°06'48" WEST ALONG THE WEST LINE OF SAID SECTION (BEARINGS RELATE TO THIS LINE AND ARE BASED ON THE PLAT OF GOLFVIEW ESTATES UNIT ONE AS RECORDED IN PLAT BOOK 15, PAGE 50 OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA) 1405.40 FEET; TO THE NORTHERLY RIGHT-OF-WAY LINE OF JOEL BOULEVARD (80' RIGHT-OF- WAY); THENCE NORTH 88°58'52"EAST, ALONG SAID RIGHT-OF-WAY LINE, 15.80 FEET, TO THE POINT OF CURVATURE OF A TANGENT CURVE TO THE LEFT; THENCE EASTERLY AND NORTHEASTERLY ALONG SAID RIGHT-OF-WAY LINE, BEING A CURVE CONCAVE TO THE NORTHWEST, AND HAVING A CENTRAL ANGLE OF 33°52'54", A RADIUS OF 676.78 FEET, ALONG AN ARC LENGTH OF 400.21 FEET TO THE POINT OF TANGENCY; THENCE NORTH 55°05'58" EAST, ALONG SAID RIGHT-OF-WAY, 3728.41 FEET TO THE POINT OF BEGINNING OF THE LAND HEREIN DESCRIBED:

1. THENCE CONTINUE NORTH 55°05'58" EAST, ALONG SAID RIGHT-OF-WAY LINE, 973.72 FEET, TO THE SOUTHWESTERLY CORNER OF THE FAIRWAYS CONDOMINIUM, PHASE III;
2. THENCE NORTH 34°54'02" WEST, ALONG THE SOUTHWESTERLY PROPERTY LINE OF SAID FAIRWAYS CONDOMINIUM, 293.00 FEET;
3. THENCE SOUTH 55 °05'58" WEST, ALONG SAID PROPERTY LINE, 60.00 FEET;
4. THENCE NORTH 34°54'02" WEST, ALONG SAID PROPERTY LINE, 330.00 FEET;
5. THENCE NORTH 71°39'59" WEST, 121.78 FEET;
6. THENCE SOUTH 78°29'03" WEST, 359.35 FEET;
7. THENCE SOUTH 87°45'11" WEST, 248.10 FEET;
8. THENCE SOUTH 10°56'53" WEST, 90.57 FEET;
9. THENCE SOUTH 03°04'50" WEST, 99.22 FEET;
10. THENCE SOUTH 85°48'58" WEST, 150.67 FEET;
11. THENCE NORTH 82°36'12" WEST, 55.00 FEET, TO THE NORTHEAST CORNER OF LEHIGH RESORT CLUB VIII, A CONDOMINIUM, AS RECORDED IN CONDOMINIUM BOOK 8, PAGE 253-256, LEE COUNTY RECORDS;
12. THENCE SOUTH 07° 17'39" WEST, ALONG THE EAST LINE OF SAID LEHIGH RESORT CLUB VIII, 175.02 FEET, TO THE SOUTHEAST CORNER THEREOF;
13. THENCE SOUTH 06°39'13" EAST, ALONG THE EAST LINE OF LEHIGH RESORT CLUB IX, A CONDOMINIUM, AS RECORDED IN CONDOMINIUM BOOK 14, PAGE 7-10, LEE COUNTY RECORDS, 275.75 FEET, TO THE SOUTHEAST CORNER THEREOF;
14. THENCE SOUTH 57°13'01" EAST, ALONG THE NORTHEASTERLY LINE OF LEHIGH RESORT CLUB X, A CONDOMINIUM, AS RECORDED IN CONDOMINIUM BOOK 16, PAGE 47-51; LEE COUNTY RECORDS, 194.33 FEET, TO THE EASTERLY CORNER THEREOF;
15. THENCE NORTH 67°56'53" EAST, 270.08 FEET;
16. THENCE SOUTH 52°51'39" EAST, 170.00 FEET;
17. THENCE SOUTH 55°05'56" WEST, 147.33 FEET;
18. THENCE SOUTH 34°54'03" EAST, 195.60 FEET, TO THE POINT OF BEGINNING

NOTES:

1. THE SUBJECT PARCEL IS LOCATED AT 275 JOEL BOULEVARD, LEHIGH ACRES, FL.
2. BEARINGS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983(2011). THE NORTHWESTERLY RIGHT OF WAY LINE OF JOEL BOULEVARD, IS THE BASIS OF BEARINGS WHICH BEARS N 54°56'38" E.
3. ALL DISTANCES SHOWN ARE IN U.S. SURVEY FEET.
4. ALL PHYSICAL FEATURES SHOWN HEREON WERE LOCATED IN THE FIELD, UNLESS OTHERWISE NOTED, BY THE SURVEY FIELD CREW AS RECORDED IN FIELD BOOK(S): 1942 PAGES 58-61, (TBD); THE LAST DAY OF FIELD WORK WAS JUNE 27th, 2024.
5. NO UNDERGROUND UTILITIES OR IMPROVEMENTS, IF ANY, WERE LOCATED OTHER THAN SHOWN HEREON.
6. UNDERGROUND ENCROACHMENTS INCLUDING FOUNDATIONS (IF ANY) WERE NOT LOCATED.
7. NO WETLAND AREAS OR JURISDICTIONAL WETLANDS (IF ANY) WERE LOCATED FOR THIS SURVEY.
8. NO SEARCH FOR VISIBLE EVIDENCE OF EXISTING OR FORMER AREAS OF FACILITIES WHICH MAY HAVE INVOLVED USE OR STORAGE OF HAZARDOUS OR TOXIC SUBSTANCES WAS MADE.
9. SUBJECT PROPERTY: 19.95 ACRES (SURVEYED), MORE OR LESS.
10. THERE ARE CURRENTLY NO BUILDINGS ON THE SURVEYED PARCEL.
11. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, COMMITMENT NUMBER: 1468003, HAVING AN EFFECTIVE DATE OF NOVEMBER 16, 2023 @ 11:00 P.M. PLEASE REFER TO SUMMARY OF SCHEDULE B - II EXCEPTIONS BELOW.
12. ALL RECORDING REFERENCES ARE TO THE PUBLIC RECORDS OF LEE COUNTY, FL.
13. AERIAL IMAGERY PROVIDED BY LEE COUNTY. SAID IMAGERY WAS FLOWN BETWEEN JANUARY 8th & MARCH 11th, 2024. IMAGERY IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NO VERIFICATION WAS MADE REGARDING THE HORIZONTAL ACCURACY OF SAID IMAGERY.

SCHEDULE B - II EXCEPTIONS:

THE FOLLOWING COMMENTS PERTAIN TO ITEMS 1 THROUGH 14, SCHEDULE B-II OF OLD REPUBLIC NATIONAL TITLE COMMITMENT (SEE NOTE 11):

1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I– REQUIREMENTS ARE MET.
   - NOT A MATTER OF SURVEY. NOT MAPPED.
2.
   a. GENERAL OR SPECIAL TAXES AND ASSESSMENTS REQUIRED TO BE PAID IN THE YEAR 2023 AND SUBSEQUENT YEARS.
      - NOT A MATTER OF SURVEY. NOT MAPPED.
   b. RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT RECORDED IN THE PUBLIC RECORDS.
      - VISIBLE EVIDENCE OF POSSESSION WAS LOCATED AS MAPPED HEREIN.
   c. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OR ADVERSE CIRCUMSTANCE THAT WOULD BE DISCLOSED BY AN INSPECTION OR AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND AND INSPECTION OF THE LAND.
      - AFFECTS THE SUBJECT PARCEL AS MAPPED HEREIN.
   d. EASEMENTS OR CLAIMS OF EASEMENTS NOT RECORDED IN THE PUBLIC RECORDS.
      - ALL VISIBLE EVIDENCE OF UTILITIES AND USE ON TO AND OFF OF THE SUBJECT PARCEL IS MAPPED HEREIN
   e. ANY LIEN, OR RIGHT TO A LIEN, FOR SERVICES, LABOR OR MATERIAL FURNISHED, IMPOSED BY LAW AND NOT RECORDED IN THE PUBLIC RECORDS.
      - NOT A MATTER OF SURVEY. NOT MAPPED.
3. ANY OWNER'S POLICY ISSUED PURSUANT HERETO WILL CONTAIN UNDER SCHEDULE B THE FOLLOWING EXCEPTION: *ANY ADVERSE OWNERSHIP CLAIM BY THE STATE OF FLORIDA BY RIGHT OF SOVEREIGNTY TO ANY PORTION OF THE LAND INSURED HEREUNDER, INCLUDING SUBMERGED, FILLED AND ARTIFICIALLY EXPOSED LANDS, AND LANDS ACCRETED TO SUCH LANDS.*
   - NO KNOWLEDGE OF SOVEREIGN CLAIM OF LEELAND LAKE. NOT MAPPED.
4. ANY LIEN PROVIDED BY COUNTY ORDINANCE OR BY CHAPTER 159, F.S., IN FAVOR OF ANY CITY, TOWN, VILLAGE OR PORT AUTHORITY, FOR UNPAID SERVICE CHARGES FOR SERVICES BY ANY WATER SYSTEMS, SEWER SYSTEMS OR GAS SYSTEMS SERVING THE LAND DESCRIBED HEREIN; AND ANY LIEN FOR WASTE FEES IN FAVOR OF ANY COUNTY OR MUNICIPALITY.
   - NOT A MATTER OF SURVEY. NOT MAPPED.
5. OIL, GAS, MINERAL, OR OTHER RESERVATIONS AS RECORDED IN DEED BOOK 149, PAGE 399, AND O.R. BOOK 4516, PAGE 2118, PUBLIC RECORDS OF LEE COUNTY, FLORIDA. NO DETERMINATION HAS BEEN MADE AS TO THE CURRENT RECORD OWNER FOR THE INTEREST EXCEPTED HEREIN.
   - NOT A MATTER OF SURVEY. NOT MAPPED.
6. SEWER AND WATER COVENANTS IN MISCELLANEOUS BOOK 58, PAGE 266, O.R. BOOK 10, PAGE 695 AND O.R. BOOK 41, PAGE 264, PUBLIC RECORDS OF LEE COUNTY, FLORIDA.
   - NOT A MATTER OF SURVEY. NOT MAPPED.
7. EAST COUNTY WATER CONTROL DISTRICT AS RECORDED IN C.O. BOOK 38, PAGE 330, FINAL JUDGMENT VALIDATING BONDS IN O.R. BOOK 2173, PAGE 469, PUBLIC RECORDS OF LEE COUNTY, FLORIDA.
   - NOT A MATTER OF SURVEY. NOT MAPPED.
8. LEE COUNTY ORDINANCE NO. 86-14 RECORDED NOVEMBER 30, 1990, IN O.R. BOOK 2189, PAGE 3281 AND AMENDED BY ORDINANCE NO. 86-38 IN O.R. BOOK 2189, PAGE 3334, PUBLIC RECORDS OF LEE COUNTY, FLORIDA.
   - NOT A MATTER OF SURVEY. NOT MAPPED.
9. UTILITY RIGHT-OF-WAY EASEMENT RECORDED IN O.R. BOOK 2321, PAGE 3116, AS ASSIGNED IN O.R. BOOK 4150, PAGE 900, PUBLIC RECORDS OF LEE COUNTY, FLORIDA.
   - AFFECTS THE SUBJECT PARCEL AS MAPPED HEREIN.
10. EASEMENT RECORDED IN O.R. BOOK 2325, PAGE 4552, AND AGREEMENT IN INSTRUMENT NUMBER 2010-67458, INSTRUMENT NUMBER 2010-74570, PUBLIC RECORDS OF LEE COUNTY, FLORIDA.
    - DOES NOT AFFECT THE SUBJECT PARCEL. NOT MAPPED.
11. ACCESS EASEMENT AGREEMENTS RECORDED IN O.R. BOOK 2330, PAGE 2675, O.R. BOOK 2330, PAGE 2685, AND O.R. BOOK 2330, PAGE 2731, PUBLIC RECORDS OF LEE COUNTY, FLORIDA.
    - AFFECTS THE SUBJECT PARCEL AS MAPPED HEREIN.
12. DEVELOPER'S AGREEMENT RECORDED IN O.R. BOOK 2357, PAGE 2973, AS MODIFIED IN O.R. BOOK 2551, PAGE 833, PUBLIC RECORDS OF LEE COUNTY, FLORIDA.
    - NOT A MATTER OF SURVEY. NOT MAPPED.
13. RIGHTS OF THE LESSEES UNDER UNRECORDED LEASES.
    - NOT A MATTER OF SURVEY. NOT MAPPED.
14. RIPARIAN AND LITTORAL RIGHTS ARE NOT INSURED.
    - NOT MAPPED.

Digitally signed by Darren Townsend
Date: 2024.08.21 09:48:04 '-04'00'

DARREN K. TOWNSEND License Number 6476 STATE OF FLORIDA Professional Surveyor & Mapper

No.:	DATE:	BY:	REVISIONS:
1	08-21-24	RH	AERIAL IMAGERY ADDED
2			
3			
4			
5			

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6476

NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

AIM Engineering & Surveying, Inc.
CIVIL * SANITARY * TRANSPORTATION * DEVELOPMENT * PROJECT MANAGEMENT
2161 FOWLER STREET, SUITE 100
FORT MYERS, FLORIDA 33901
www.aimengr.com
TOLL FREE 800-226-4569
PHONE 239-332-4569
CERTIFICATE OF AUTHORIZATION No. 3114

CLIENT:			
LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT			
DRAWN: RH	DATE: 06-25-2024	PROJECT: 24-1911_LAMSID SINKHOLE PARCEL	
CHECKED: DT	DATE: 06-27-2024	FIELD BOOK: 1942	PAGE: 58-61, TBD

COUNTY:		
LEE		
SECTION: 34	TOWNSHIP: 44 S	RANGE: 27 E
FILE NAME: 24-1911_BND	PROJECT NO.: 24-1911	

BOUNDARY SURVEY
LEELAND LAKE PARCEL

ANY REVISIONS, ALTERATIONS, AND OR CHANGES TO DRAWING(S) WITHOUT WRITTEN CONSENT BY AIM ENGINEERING & SURVEYING, INC. IS PROHIBITED!

SHEET 1 OF 1

Legend

- Wind Phone
- Wayfinding Sings
- Park Entrance Sign
- Benches
- Picnic Tables
- Path Route No. 3
- Floating Boardwalk
- Gangway Ramp
- Boardwalk
- Road Vegetation Buffer
- Maintenance Path
- Floating Dock
- Outlook
- Lake
- Parking Lot
- Building
- Sidewalk
- Trail Sightline Vegetation
- Wetland Plants & Trees

Lee County, FL, State of Florida, Microsoft, Vantor, Esri Community Maps Contributors, University of South Florida, County of Lee, FL, FDEP, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

N

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Feet

Rev. No. 00

AIM Project No. 25-2166

AIM Engineering & Surveying, Inc.
CIVIL ENGINEERING * LAND SURVEYING * S.U.E
TRANSPORTATION * UTILITIES * PROJECT MANAGEMENT
CONSTRUCTION ENGINEERING & MANAGEMENT
2161 Fowler Street. Suite 100. Fort Myers, Florida 33901
Web: aimengr.com Info: info@aimengr.com

Map Produced Jan. 15, 2026

CONCEPT PLAN

LA-MSID Sinkhole Future Vision Plan

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
601 EAST COUNTY LANE
LEHIGH ACRES, FLORIDA 33936

CONCEPT PLAN

LA-MSID Sinkhole Trail Route No. 1

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

601 EAST COUNTY LANE
LEHIGH ACRES, FLORIDA 33936

AIM Engineering & Surveying, Inc.

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Map Produced Jan. 15, 2026

0 100 Feet

N

AIM Project No.	Rev. No.
25-2166	00

CONCEPT PLAN

LA-MSID Sinkhole Trail Route No. 2

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

601 EAST COUNTY LANE
LEHIGH ACRES, FLORIDA 33936

AIM Engineering & Surveying, Inc.

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Map Produced Jan. 15, 2026

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AIM Project No.	Rev. No.
25-2166	00

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT

AGENDA ITEM SUMMARY

Subject: Manager Replacement Strategy and Schedule

Meeting Date: June 15, 2026

Agenda Item # 4A4

☐ **CONSENT** ☒ **ACTION** ☒ **OLD BUSINESS** ☐ **NEW BUSINESS**

Request Initiated By: ☐ **COMMISIONER** _____ ☐ **ATTORNEY**

☐ **BOARD** ☒ **MANAGER** ☐ **ENGINEER** ☐ **AUDITOR**

Recommended motion: N/A

What the action accomplishes: Provides for a forum, to discuss the procedure for replacing the Manager by October 31, 2027.

Fiscal Impact:

Staff comments:

Staff review and recommended approval:

☒ **MANAGER** ☐ **ASSISTANT DISTRICT MGR**

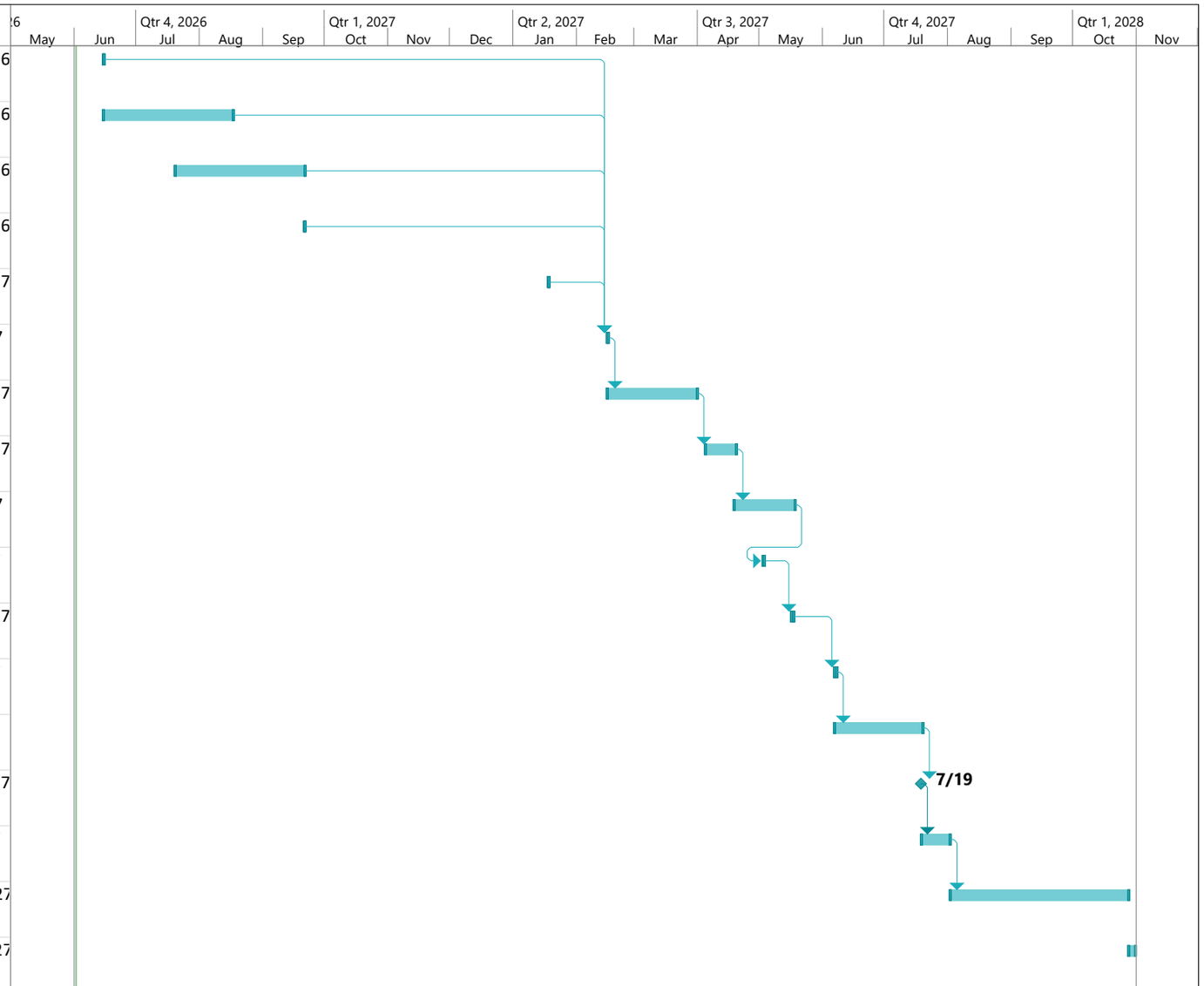
☐ **ATTORNEY** ☐ **FIELD SUPERINTENDENT**

☒ **ENGINEER** ☒ **CONTROLLER**

Board Action:

☐ **APPROVED** ☐ **DENIED** ☐ **DEFERRED**

ID	Task Mode	Task Name	Duration	Start	Finish
1		Develop Manager Job Description	0.8 days	Mon 6/15/26	Mon 6/15/26
3		Salary Survey	36.8 days	Mon 6/15/26	Mon 8/17/26
2		Develop Manager Job Advertisement	36.8 days	Mon 7/20/26	Mon 9/21/26
4		Hire Head Hunter	0.8 days	Mon 9/21/26	Mon 9/21/26
5		Approval of Hiring Process Resolution	0.8 days	Mon 1/18/27	Mon 1/18/27
6		Public Advertisement	0.8 days	Tue 2/16/27	Tue 2/16/27
7		Recruiting Period	25.75 days	Tue 2/16/27	Wed 3/31/27
8		Review of Candidates	8.95 days	Mon 4/5/27	Mon 4/19/27
9		Narrowing of Job Candidate List	17.65 days	Mon 4/19/27	Tue 5/18/27
10		First Public Job Interview	0.8 days	Mon 5/3/27	Mon 5/3/27
11		Final Public Job Interiew	0.95 days	Mon 5/17/27	Mon 5/17/27
12		Initial Hiring Offer	0.95 days	Mon 6/7/27	Mon 6/7/27
13		Negotiating Period & Contract Development	24.95 days	Mon 6/7/27	Mon 7/19/27
14		Contract Agreement & Final Hiring	0 days	Mon 7/19/27	Mon 7/19/27
15		New Manager Notice Period	8.15 days	Mon 7/19/27	Mon 8/2/27
16		Shadowing & Probationary Period	50.55 days	Mon 8/2/27	Thu 10/28/27
17		Manager Lindsay's Last Day	2.4 days	Thu 10/28/27	Sun 10/31/27



Project: Manager Replacement
Date: Tue 6/2/26

Task	Project Summary	Manual Task	Start-only	Deadline
Split	Inactive Task	Duration-only	Finish-only	Progress
Milestone	Inactive Milestone	Manual Summary Rollup	External Tasks	Manual Progress
Summary	Inactive Summary	Manual Summary	External Milestone

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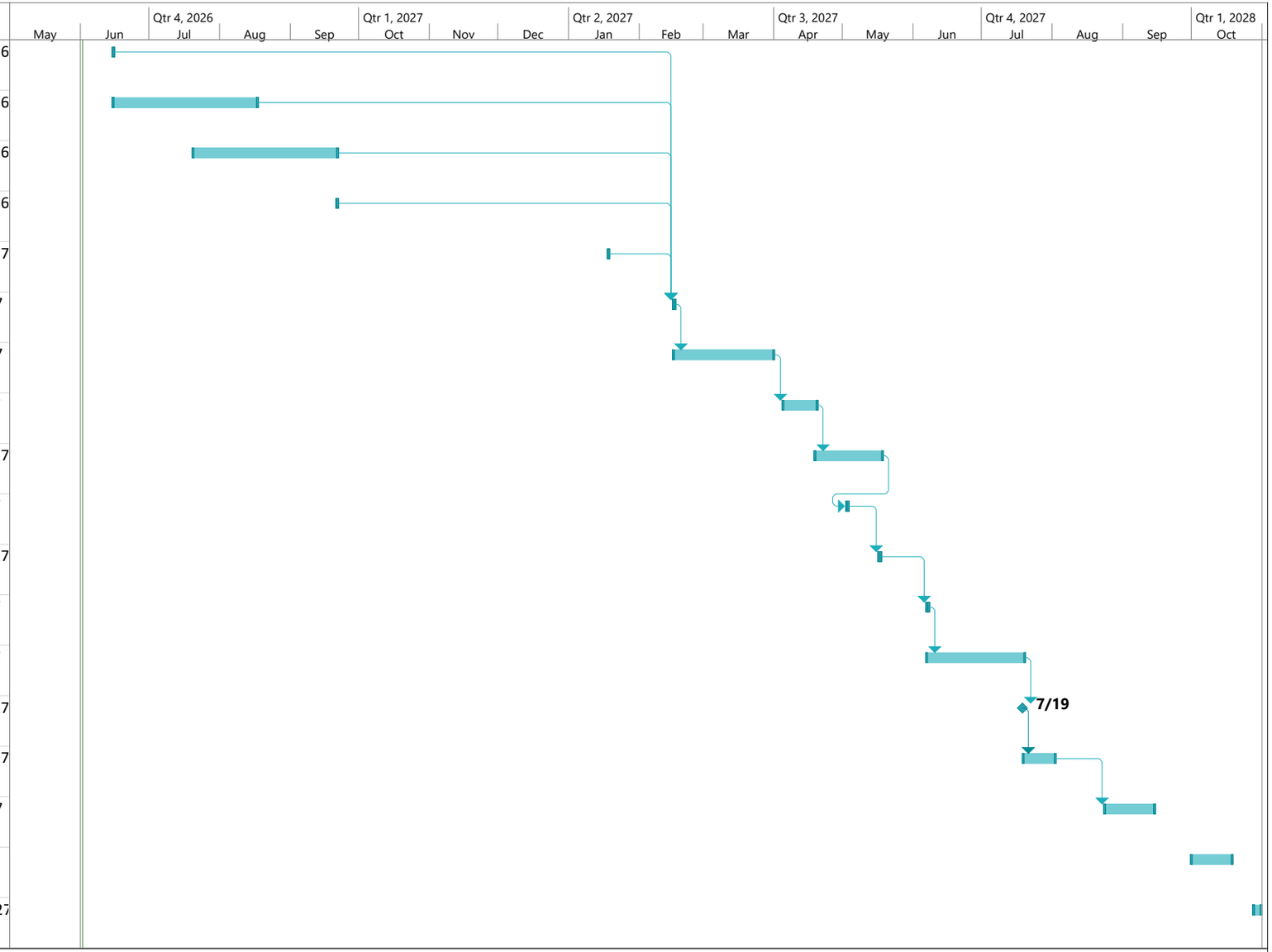
11		Final Public Job Interiew	0.95 days	Mon 5/17/27
12		Initial Hiring Offer to in-house Candidate	0.95 days	Mon 6/7/27
13		Negotiating Period & Contract Development	24.95 days	Mon 6/7/27
14		Contract Agreement & Final Hiring	0 days	Mon 7/19/27
15		Advertising for Director of Operations	8.15 days	Mon 7/19/27
16		Reviewing Candidates	12.95 days	Tue 8/24/27
17		Hire Director of Operations	9.75 days	Fri 10/1/27
18		Manager Lindsay's Last Day	2.4 days	Thu 10/28/27



Project: Manager Replacement
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Split	Inactive Task	Duration-only	Finish-only	Progress
Milestone	Inactive Milestone	Manual Summary Rollup	External Tasks	Manual Progress
Summary	Inactive Summary	Manual Summary	External Milestone	

AIM Engineering & Surveying, Inc.

June 3, 2026

Board of Commissioners
Lehigh Acres Municipal Services Improvement District
601 East County Lane
Lehigh Acres, FL 33936

Re: Engineer's Report for the June 2026 Board Meeting

Dear Board Members:

The status of current projects and tasks involving the District Engineer is outlined as follows:

General Consulting

- Review the board agenda and prepare the monthly engineering report.
- Review and recommendation for permits within the report timeframe.
- Coordination and planning related to the Sinkhole parcel.
- Lee County Alico/Sunshine Road extension coordination.
- Welcome sign coordination.

Recently Completed Projects

- Southwest Lehigh Groundwater Recharge and Aquifer Restoration (February 2018)
- Hendry Canal Extension Widening (February 2021)
- Halfway Pond – SR 82 Segment 3 (April 2019)
- JUSWMSA Agreement – FDOT (March 2021)
- West Marsh Design (May 2021)
- Weir S-VL-1 Replacement (August 2023)
- CREST Phase 2 (February 2024)

Current Projects Progress

Frank Mann Preserve (Formerly GS-10): The Frank Mann Preserve property was purchased by Lee County Conservation 20/20. A March 2019 Memorandum of Understanding (MOU) between Lee County and LA-MSID allows LAMSID to construct and maintain a stormwater storage and water quality system within the parcel. LA-MSID issued a Purchase Order to AIM in March 2020 to prepare a Land Management Plan as one of the first step requirements of the MOU. Following a presentation to Lee County's Conservation Land Acquisition and Stewardship Advisory Committee (CLASAC) made in December 2020, the committee recommended approval. The LA-MSID Board approved the Land Management Plan in January 2021 for submission to the Lee County Board of County Commissioners. The Lee County Board approved the County Commissioners' plan on their March 2021 agenda. The LA-MSID Board approved a purchase order to AIM for an initial design scope at the August 2021 Board meeting. Lee County cleared a small park access area.

As a result of critical Hurricane Ian recovery efforts, progress on the Frank Mann Preserve project was delayed. LAMSID staff continued to complete exotic vegetation removal & maintenance berm/access work, which aided the design team in understanding the effort involved in re-establishing the berm in the NW corner of the project. The design team recommended additional survey data to be collected along the northwest berm to aid in the

completion of the 90% plans and permit application. Additional topographic survey data was completed in January 2024.

The project was selected to receive $15M in grant funding. LAMSID signed the agreement with SFWMD/FDEP to receive the funds. The purchase order for Phase 1 Post-Design & Construction-Phase services and Phase 2 Surveying, Modeling, Design, Permitting, Post-Design, and Construction Phase services was approved during the June board meeting.

LA-MSID staff have finalized exotic vegetation removal activities, and the final existing conditions were surveyed in late December 2025, as well as new drone aerials.

AIM and LA-MSID staff are working to amend the agreement to adjust the schedule and potentially incorporate the filter marsh envisioned for Phase 2 to be permitted and constructed in Phase 1. Conceptual filter marsh designs, including a maintenance path, have been developed to be incorporated in Phase 1. Design efforts continue using the new survey data from late December 2025. New survey data was also collected in late April 2026 and incorporated into the filter-marsh design in progress May 2026. Phase 1 Design is anticipated to be submitted for permit application in June 2026, which incorporates the new survey, drone aerials, and survey data to support the filter marsh design.

Caloosahatchee River and Estuary Storage and Treatment (CREST): LA-MSID purchased approximately 105 acres for the CREST preserve and stormwater treatment area. The LA-MSID Board authorized the design of this project in November 2019. AIM staff had a meeting with LA-MSID staff in April 2020 to review concepts for developing final plans. The design elements include an interconnecting channel between Dog Canal and Hendry Canal to balance flows between the Bedman Creek and Carlos Waterway Drainage Basins. A retention reservoir also provides year-round treatment of suspended solids through increased flow way resident time and storage to attenuate peak stages during storm events. Additionally, wetland plantings provide water quality treatment through nutrient uptake within the circuitous wetland flow pathway.

Due to grant funding, the design plans and construction activities required a phased approach. AIM developed the scope of work for design phasing, post-design, and construction phase services and provided it to LA-MSID staff for review, which partially addressed the required Caracara monitoring. The LA-MSID Board approved a contract with AIM for this effort on 6/21/2021.

CREST Phase 1
Phase 1 of the CREST project is complete, which includes maintenance dredging of the Dog to Hendry canal and replacement and relocation of weir S-H-2.

CREST Phase 2
LA-MSID received a $2 million grant award to complete Phase 2. Bids for Phase 2 construction were received on December 15, 2022. The groundbreaking ceremony was held on February 15, 2023. Turnbull Environmental completed CREST Phase 2 construction in February 2024.

CREST Phase 3
LA-MSID received an additional $4.06 million in grant funds to allow for the construction of the full build-out of the CREST project (Phase 3). AIM worked to complete the additional design and permitting tasks required to revise the plans and permitting approach to include the full project build-out. AIM's Environmental Scientist coordinated with USFWS to clarify construction

restrictions related to the Caracara nesting site. The design team completed the 100% plan set for Phase 3, and the SFWMD permit was issued on May 22, 2023. Phase 3 bids were received on April 18, 2024, with Turnbull Environmental awarded the project at the April 2024 LAMSID board meeting.

The Notice to Proceed with construction was given on May 1, 2024. Phase 3 is due to be substantially completed by August 31, 2025, and finally completed by September 30, 2025. The SFWMD permit modification was submitted on 9/18/2024 to allow for the excavation of the Caracara nest buffer area. On August 20, 2025, LA-MSID received permit approval to excavate the previously protected Caracara nesting site and 300' buffer zone. A time-extension change order was approved to allow the contractor additional time to excavate the Caracara buffer area for additional stormwater storage within CREST. As part of approved change order 01, the contractor will plant at a higher density of plants and trees for Phase 3 while remaining within the awarded grant funding amount. Project/grant funds will also be utilized to repave portions of the roadway surrounding the CREST project that were disturbed by the construction and truck hauling process.

The pump installation is complete, paid for through grant funds, that will allow additional stormwater volume from Dog Canal to be pumped into the CREST project during severe storm events.

The contractor is currently working on punch-list items related to the Substantial Completion walkthrough that occurred on June 1, 2026.

Rehydration of Bedman (Creek) Utilizing Storage & Treatment (ROBUST)
LA-MSID gained legislative funds to purchase and improve two parcels within Lehigh Acres: A Sinkhole Parcel (34-44-27-00-00001.0140) and the ROBUST Parcels (36-43-27-01-00000.A000 & 36-43-27-00-00004.0020). AIM conducted Phase I Environmental Reports for the Sinkhole and Robust parcels. The purpose of these assessments was to characterize the environmental conditions based on readily available information & site observations and to identify recognized environmental conditions. To assist with water quality grant funding applications, AIM prepared a conceptual ROBUST nutrient removal analysis.

ROBUST Phase 1
Grant funding for Phase 1 was achieved to purchase the triangular parcel (36-43-27-01-00000.A000), which is a 15-acre site envisioned to provide additional stormwater storage volume, flood mitigation, and water quality benefits to the Bedman Creek Drainage Basin.

ROBUST Phase 2
LA-MSID also received grant funding for Phase 2 of the ROBUST project, which includes the design and construction of the triangular stormwater storage and water quality facility to store flows from Dog Canal, as well as an emergency overflow connection to the Carlow Waterway during extreme storm events. With the grant agreement finalized, LAMSID approved a design scope of services during the January board meeting. The Notice to Proceed is March 10, 2025. The design team and LA-MSID conducted a kick-off meeting to strategize a project approach that best suits LA-MSID.

ROBUST Phase 3
Subsequently, a $1.705M grant was awarded for the ROBUST Phase 3 project, which expands the stormwater storage capacity and bypass benefits by utilizing the floodplain within Bedman Creek (storage) and adding a water control structure with berming to better direct flows from

Bedman Creek to the Carlos Waterway (bypass). A grant amendment to the ROBUST project combines the phases into a single ROBUST project. LAMSID approved a scope of work that includes the additional design, bidding, and construction-phase services related to the now combined Phase 2 & 3 ROBUST project in the form of a change order to Robust Phase 2.

ROBUST Phase 4
Another $1.6M grant was awarded for ROBUST Phase 4, which will allow for the design and construction of a more sophisticated structure for the Bedman to Carlos bypass that includes electrically actuated gates. LA-MSID staff are working to formalize the grant agreement with FDEP and will likely complete another amendment to have Phase 4 funds combined with a singular ROBUST project.

ROBUST (Combined project into a single phase)
AIM's environmental team has completed the environmental survey required for the permit application. Survey data collection is completed. Modeling efforts are nearing completion, although a new S-CW-6 structure is currently being evaluated. The ROBUST design will incorporate the S-CW-6 modeling findings.

The modeling report was completed in March 2026. ROBUST Design is ongoing, with permit application still on track for submittal in July 2026.

Bottomless Lake (Sinkhole Parcel)
AIM provided LAMSID staff with a conceptual scope, fee, and construction cost to be utilized toward the grant application submittal. AIM completed a high-level Due Diligence report for the parcel to identify current and/or needed permits and buffering requirements. LAMSID gained a Limited Development Order (LDO) permit to construct security fencing along the parcel's frontage adjacent to the roadway.

LA-MSID was awarded $2.2M for the Sinkhole project to move forward. AIM will work with LA-MSID staff on a Grant Work Plan and provide a scope of services for authorization so that the project's design can commence as soon as the grant agreement is finalized. A workshop was held on September 30 with LA-MSID board members and the public.

An architectural review (including their mechanical, electrical, plumbing, and general contractor team members) was conducted on October 2nd to review the building conditions and advise on expected renovation costs.

AIM trail route concepts were developed and reviewed by the LA-MSID board at the January board meeting. The planning team is exploring a turnkey new building solution, such as Romtec, which could provide a cost-effective new construction alternative to an existing building retrofit.

Clarification has been obtained that the grant agreement likely does not require modification, as construction of a new cultural facility building is within the intent of the current grant agreement. AIM and LA-MSID provided a narrative and exhibits of the new building site to allow FDEP to provide a letter of agreement stating that constructing a new cultural facility is acceptable within the intent of the current grant agreement. AIM staff are working to itemize the site improvement cost to provide clarity on anticipated remaining grant funds that can be utilized for the construction of the new cultural facility building.

Alico Road Extension Analysis for Sunshine Boulevard
LAMSID was contacted by the Lee County Department of Transportation (Lee DOT) to determine water management requirements for a proposed new road connecting Alico Road to SR 80. The proposed road will connect to Sunshine Blvd at its junction with SR 82. The interchange with SR 82 will be enhanced to facilitate improved flow patterns, and the impervious area of that interchange will be significantly greater than the existing interchange. Sunshine Boulevard will be widened up to and through the junction with Able Canal north of Lee Blvd. The widened road will generate additional runoff, which will need to be managed so that peak water elevations do not increase in Able Canal as it passes under Sunshine Blvd. During a meeting on July 27, 2024, with Lee County DOT and Johnson Engineering, Inc., it was explained that the section of the Sunshine Blvd widening between SR 82 and 23rd Street SW is on a critical path schedule.

During said meeting, Water Science Associates (WSA) was requested to provide an accelerated analysis of the impact of the road widening on water levels and flows in Sailfish Canal, as well as impacts on canal water levels at the junction of Sailfish Canal and Able Canal. A more comprehensive analysis of the impacts of the proposed roadway changes is being negotiated between LA-MSID and Lee County DOT. WSA & AIM completed a draft report of the findings and provided draft recommendations for LAMSID staff and the board to consider to mitigate impacts to the LAMSID drainage system.

A follow-up meeting was conducted in September 2025 to further discuss the ROW capacity topic. The roadway improvements require LC to acquire canal ROW from LAMSID. AIM and WSA worked with LC DOT and Johnson Engineering to agree upon the volume of lost stormwater storage impact to mitigate due to LAMSID's lost canal ROW. A monthly meeting has been established between the stakeholders to keep coordination efforts moving forward. However, the October meeting was postponed to a date to be determined due to Hurricane Milton. During the November meeting, WSA, AIM, and LAMSID staff worked to clarify the acceptable lower and upper limits to calculate the lost ROW storage volume. However, LCDOT expressed a desire to develop an agreement for the entire stretch of the project from SR 82 to SR 80. LAMSID staff met with key LCDOT staff to discuss large-scale improvements that work for both LAMSID and LCDOT in February 2025.

LA-MSID and LCDOT are currently working on finalizing an agreement and means of fund transfer to allow initial modeling and other projects to commence, which will include required timelines for the projects to be completed that correspond to the given roadway phases. Funding for the District-wide modeling effort was on the Lee County Commissioner Board Meeting agenda for January 2026.

Funding for the District-wide modeling effort has been approved, and APEX (formerly known as WSA) has started modeling. Potential conflicts of interest between internal APEX companies have been resolved. Lee County also selected an engineering firm to design and construction of three weirs within Spratt, Moonfish, and Trout Canals, as well as the replacement of S-SF-1 (AIM was considered a conflict of interest).

APEX/WSA anticipates having the existing model simulations calibrated mid-July to be able to start running proposed condition simulations.

Centennial Flood Mitigation
LA-MSID coordinated with Lee County and SFWMD regarding the recent road flooding in the Centennial area south of Buckingham Road during the wet season 2024. The land elevation

falls to the northwest, whereas the LA-MSID canals direct flow to the southeast. Therefore, flood mitigation concept projects were developed during the Southern Lee County Flood Mitigation Plan, including a stormwater storage area and a new outfall route to the north of Buckham Road. Initial coordination with Lee County has resulted in LA-MISD learning that the project(s) are low on the County's flood mitigation prioritization list. However, this project is now being considered as one of the projects to analyze further in correlation with the Lee County Sunshine Widening project.

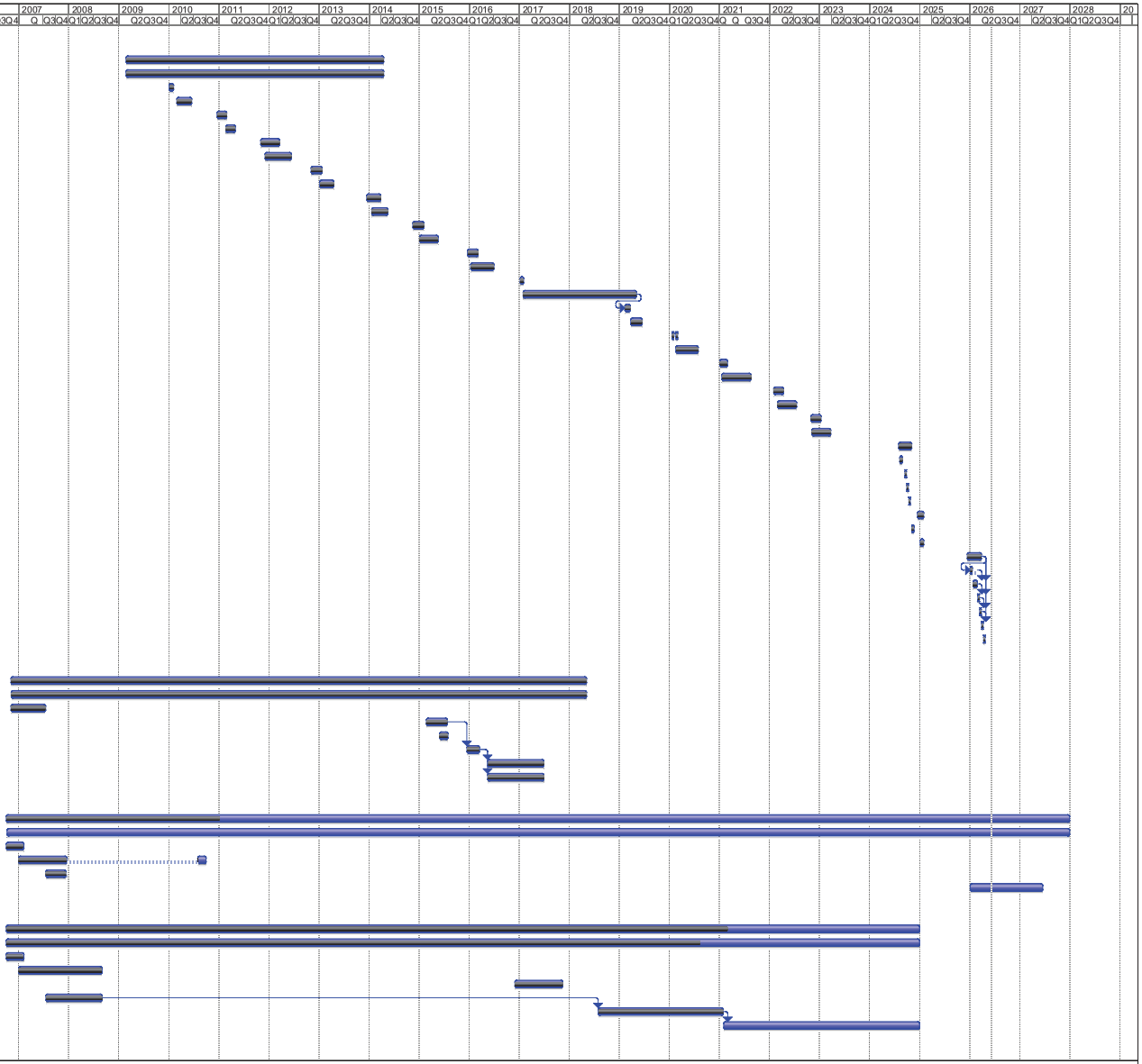
LA-MSID CIP Grant Appropriation Request for Weir Replacement & Retrofitting
AIM prepared cost estimates for the water control structures S-O-1, S-BP-1, S-BL-2, S-R-1, and S-SF-3 to be presented for a grant funding appropriation request for the next legislative session, which were considered at the October LA-MSID board meeting.

S-BP-1 involves full replacement, S-O-1 is being replaced and relocated, whereas S-R-2 and S-SF-3 are slated for modernization upgrades, including electric actuation and remote-control integration. S-BL-2 has been observed to float/tilt, so this structure's improvement includes repairs and modifications to mitigate the potential for floating/tilting, allowing the gates to be safely operated again.

If you have any questions or inquiries, please call my cell at (239) 823-8171.

Sincerely,
AIM Engineering & Surveying, Inc.
Daniel Schroeder, PE, MSE, PMP
Vice President & Civil Group Manager

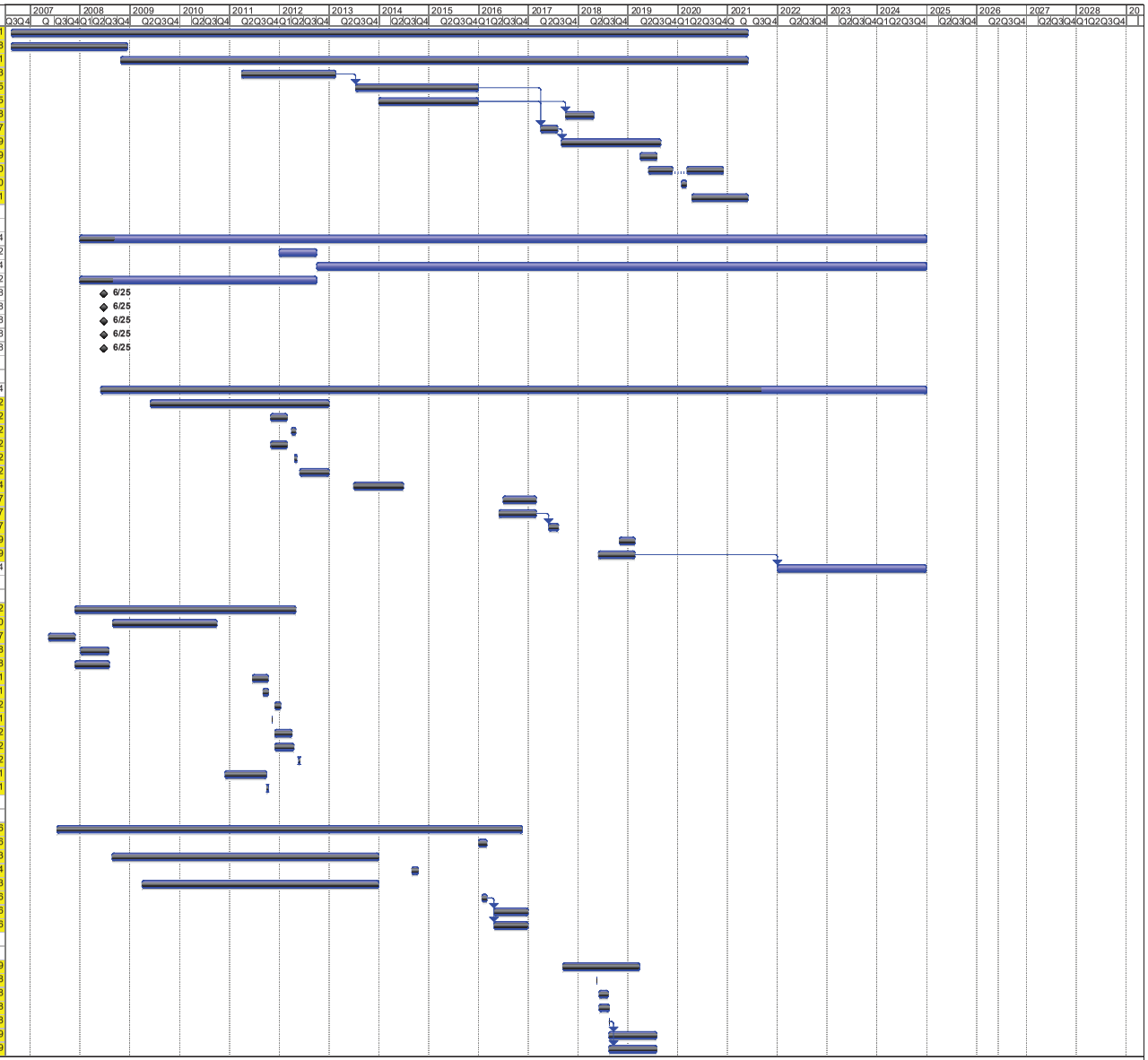
ID	ID	ID	Priori	Task Name	Duration	Start	Finish
1	1	1					
2	2	2					
3	3	3	0	2007 Facility Review Critical Culverts (25 Culverts)	1345 days?	Tue 2/24/09	Fri 4/18/14
4	4	4	29	Funding (25 Culverts)	1348 days?	Tue 2/24/09	Fri 4/18/14
5	5	5	30	Design (5 Culverts In-House - 2010)	25 days	Mon 1/4/10	Fri 2/5/10
6	6	6	31	Construction (5 Culverts In-House - 2010)	79 days	Mon 3/1/10	Thu 6/17/10
7	7	7	32	Design (5 Culverts In-House - 2011)	51 days?	Mon 12/20/10	Mon 2/28/11
8	8	8	33	Construction (5 Culverts In-House 2011)	50 days	Tue 2/22/11	Mon 5/2/11
9	9	9	34	Design (5 Culverts In-House 2012)	100 days	Thu 11/3/11	Tue 3/20/12
10	10	10	35	Construction (5 Culverts In-House 2012)	139 days	Mon 12/5/11	Thu 6/14/12
11	11	11	36	Design (5 Culverts In-House 2013)	60 days	Mon 11/5/12	Thu 1/24/13
12	12	12	37	Construction (5 Culverts In-House 2013)	75 days	Mon 1/7/13	Fri 4/19/13
13	13	13	38	Design (6 Culverts In-House 2014)	75 days	Mon 12/16/13	Fri 3/28/14
14	14	14	39	Construction (6 Culverts In-House 2014)	85 days	Tue 1/21/14	Mon 5/19/14
15	15	15	40	Design (4 Culverts In-House 2015)	60 days	Mon 11/17/14	Fri 2/6/15
16	16	16	41	Construction (4 Culverts In-House 2015)	99 days	Mon 1/5/15	Thu 5/21/15
17	17	17	42	Design (5 Culverts In-House 2016)	56 days?	Mon 12/21/15	Mon 3/7/16
18	18	18	43	Construction (5 Culverts In-House 2016)	122 days	Wed 1/13/16	Thu 6/30/16
19	19	19	100	Design (5 Culverts In-House 2017)	19 days?	Mon 1/9/17	Thu 2/2/17
20	20	20	101	Construcion (5 Culverts In-House 2017)	591 days?	Mon 1/30/17	Mon 5/6/19
21	21	21	200	Design (6 Culverts In-House 2019)	30 days?	Mon 2/11/19	Fri 3/22/19
22	22	22	201	Construction (6 Culverts In-House 2019)	60 days	Tue 3/26/19	Mon 6/17/19
23	23	23	202	Design (6 Culverts In-House 2020)	21 days	Tue 1/21/20	Mon 3/2/20
24	24	24	203	Construcion (6 Culverts In-House 2020)	118 days	Tue 2/18/20	Thu 7/30/20
25	25	25	500	Design (6 Culverts In-House 2021)	41 days?	Mon 1/4/21	Mon 3/1/21
26	26	26	500	Construcion (6 Culverts In-House 2021)	153 days?	Tue 1/19/21	Thu 8/19/21
27	27	27	500	Design (5 Culverts In-House 2022)	53 days	Tue 2/1/22	Thu 4/14/22
28	28	28	500	Construction (5 Culverts In-House 2022)	100 days	Tue 3/1/22	Mon 7/18/22
29	29	29	500	Design (1 Culverts In-House 2023)	54 days?	Mon 10/31/22	Thu 1/12/23
30	30	30	500	Construction (1 Culverts In-House 2023)	100 days	Mon 11/7/22	Fri 3/24/23
31	31	31	500	Design (4 Culverts In-House 2024)	68 days	Thu 8/1/24	Mon 11/4/24
32	32	32	500	Construction (59th St. W. Culvert In-House 2024)	15 days?	Fri 8/9/24	Thu 8/29/24
33	33	33	500	Construction (51st St. W. Culvert In-House 2024)	9 days?	Mon 9/16/24	Thu 9/26/24
34	34	34	500	Construction (Centennial Blvd. @ Champion Canal In-House 2024)	9 days?	Mon 9/30/24	Thu 10/10/24
35	35	35	500	Construction (Billings St. Outfall @ Adaline Canal In-House 2024)	8 days?	Tue 10/15/24	Thu 10/24/24
36	36	36	500	Design (2 Culverts In House 2025)	34 days	Mon 12/16/24	Thu 1/30/25
37	37	37	500	Construction (Ridgemont Drive @ Webworm Canal)	14 days?	Mon 11/4/24	Thu 11/21/24
38	38	38	500	Construction (Magenta Ave @ Longwing Canal (47-4-2)	19 days?	Mon 1/6/25	Thu 1/30/25
39	39	39	500	Design (5 Culverts In-House 2026)	75 days	Mon 12/15/25	Fri 3/27/26
40	40	40	500	Construction (Culvert #1) Greenbriar Blvd. (W. of Richmond Ave.)	12.35 days	Mon 1/5/26	Thu 2/26/26
41	41	41	500	Construction (Culvert #2) Roderick Ln. (N. of Windermere Dr)	24 days	Mon 1/26/26	Thu 2/26/26
42	42	42	500	Construction (Culvert #3) Butler St. E. (E. of McArthur)	9 days	Mon 3/2/26	Thu 3/12/26
43	43	43	500	Construction (Culvert #4) Butler St. E. (W. of McArthur)	9 days?	Mon 3/16/26	Thu 3/26/26
44	44	44	500	Construction (Culvert #5) Butler Ave. S. (N. of Grant)	9 days	Mon 3/30/26	Thu 4/9/26
45	45	45	500	Cinstruction (Culvert #6) Bonefish Canal (57-5-3) 11 Homestead Rd S.	9 days?	Mon 4/13/26	Thu 4/23/26
46	46	46					
47	47	47					
48	48	48	0	SW Lehigh New Structures (SW Structures)	3001 days	Tue 11/7/06	Mon 5/7/18
49	49	49	46	Funding (SW Structures)	3001 days	Thu 11/9/06	Mon 5/7/18
50	50	50	47	Pre Engineering (SW Structures)	181 days?	Tue 11/7/06	Tue 7/17/07
51	51	51	48	Revise Design (SW Structures)	110 days	Tue 2/24/15	Mon 7/27/15
52	52	52	49	Revise SFWMD Permit (SW Structures)	45 days	Mon 6/1/15	Fri 7/31/15
53	53	53	50	Bidding (SW Structures)	66 days	Thu 12/17/15	Thu 3/17/16
54	54	54	51	Electric (SW Structures)	295 days	Mon 5/16/16	Fri 6/30/17
55	55	55	51	Construction (SW Structures)	295 days	Mon 5/16/16	Fri 6/30/17
56	56	56					
57	57	57					
58	58	58	0	Hickey's Creek Canal Widening (H.C. Widening)	5544 days?	Wed 10/4/06	Fri 12/31/27
59	59	59	55	Funding (H.C. Widening)	5544 days?	Mon 10/9/06	Fri 12/31/27
60	60	60	56	Pre Engineering (H.C. Widening)	93 days?	Wed 10/4/06	Fri 2/9/07
61	61	61	57	Design (H.C. Widening)	297 days?	Tue 1/2/07	Thu 9/30/10
62	62	62	58	Permit (H.C. Widening)	104 days	Fri 7/20/07	Wed 12/19/07
63	63	63	59	Construction (H.C. Widening)	380 days	Mon 1/5/26	Fri 6/18/27
64	64	64					
65	65	65					
66	66	66	0	Hendry Extension Canal Widening (H. Ext. Widening Phase I & II)	4764 days?	Wed 10/4/06	Tue 12/31/24
67	67	67	62	Funding (H. Ext. Widening - Phase I)	4764 days?	Wed 10/4/06	Tue 12/31/24
68	68	68	63	Pre Engineering (H. Ext. Widening - Phase I & II)	93 days?	Wed 10/4/06	Fri 2/9/07
69	69	69	64	Design (H. Ext. Widening - Phase I & II)	435 days?	Tue 1/2/07	Mon 9/1/08
70	70	70	65	Revised Design to FDOT Standard - Phase I	250 days	Thu 12/1/16	Wed 11/15/17
71	71	71	66	Permit (H. Ext. Widening Phase I & II)	292 days?	Fri 7/20/07	Mon 9/1/08
72	72	72	67	Construction (H. Ext. Widening - Phase I)	653 days	Wed 8/1/18	Fri 1/29/21
73	73	73	500	Construction (Phase II) North of Milwaukee Blvd.	1022 days	Mon 2/1/21	Tue 12/31/24
74	74	74					
75	75	75					



Project: Construction Project Schedule
Date: Thu 6/4/26

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

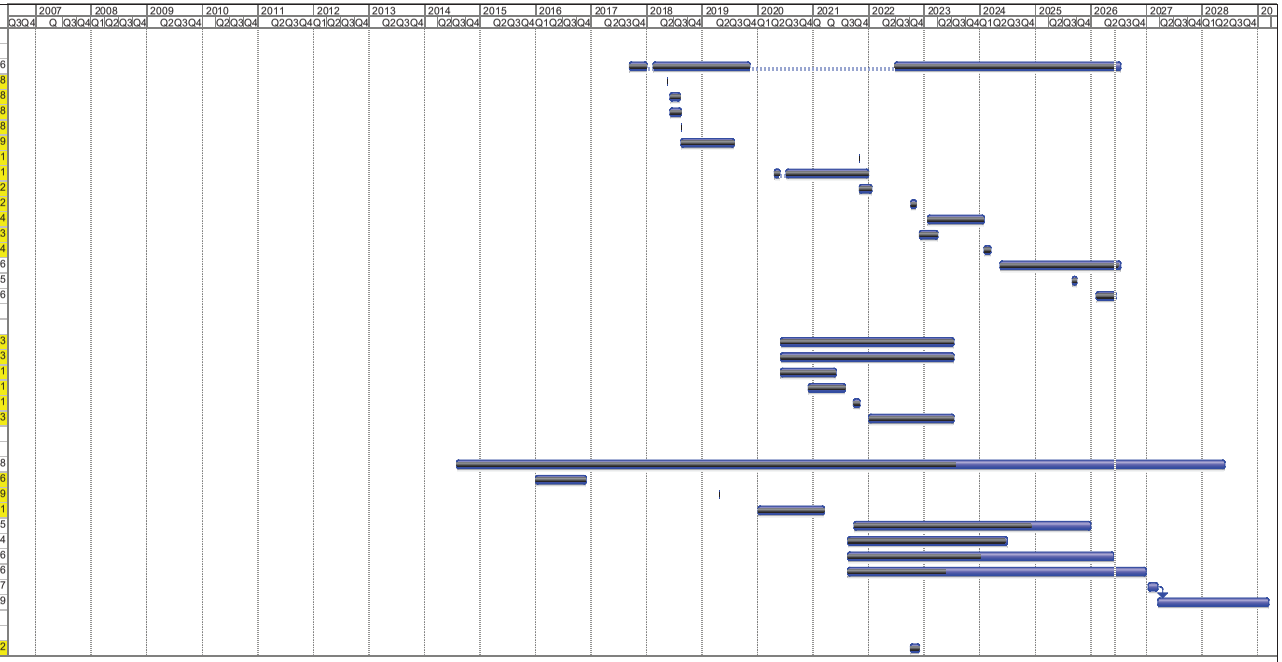
ID	ID	ID	Priori	Task Name	Duration	Start	Finish
76	76	76	0	West Marsh (W. Marsh) Phase I, II, & III	3859 days?	Thu 8/17/06	Mon 5/31/21
77	77	77	70	Land Purchase (W. Marsh)	609 days	Thu 8/17/06	Mon 12/15/08
78	78	78	71	Funding (W. Marsh)	3287 days	Mon 10/27/08	Mon 5/31/21
79	79	79	72	Pre Engineering (W. Marsh Land Stewardship Plan)	496 days	Fri 4/1/11	Tue 2/19/13
80	80	80	73	Design (W. Marsh)	643 days	Tue 7/16/13	Thu 12/31/15
81	81	81	74	Permit (W. Marsh)	522 days	Wed 1/1/14	Thu 12/31/15
82	82	82	79	Electric (W. Marsh)	150 days	Mon 10/2/17	Fri 4/27/18
83	83	83	77	Bidding (W. Marsh Phase I) FDOT Seg. #1	90 days	Mon 4/3/17	Fri 8/4/17
84	84	84	79	Construction (W. Marsh Phase I) FDOT Seg. #1	521 days	Fri 9/1/17	Fri 8/30/19
85	85	85	82	Bidding (W. Marsh Phase II) FDOT Seg. #2	90 days	Mon 4/1/19	Fri 8/2/19
86	86	86	83	Construction (W. Marsh Phase II) FDOT Seg. #2	317 days	Mon 6/3/19	Tue 12/1/20
87	87	87	82	Bidding (W. Marsh Phase III) LA-MSID Structures	26 days	Thu 1/30/20	Thu 3/5/20
88	88	88	85	Construction (W. Marsh Phase III) LA-MSID Structures	294 days	Wed 4/15/20	Mon 5/31/21
89	89	89					
90	90	90					
91	91	91	0	Hendry Storage Reservoir (H.S. Reservoir)	4436 days?	Tue 1/1/08	Tue 12/31/24
92	92	92	80	Land Purchase (H.S. Reservoir)	197 days?	Mon 1/2/12	Tue 10/2/12
93	93	93	81	Funding (H.S. Reservoir)	3196 days?	Wed 10/3/12	Tue 12/31/24
94	94	94	82	Pre Engineering (H.S. Reservoir)	1241 days	Tue 1/1/08	Tue 10/2/12
95	95	95	83	Design (H.S. Reservoir)	0 days	Wed 6/25/08	Wed 6/25/08
96	96	96	84	Permit (H.S. Reservoir)	0 days	Wed 6/25/08	Wed 6/25/08
97	97	97	87	Electric (H.S. Reservoir)	0 days	Wed 6/25/08	Wed 6/25/08
98	98	98	85	Bidding (H.S. Reservoir)	0 days	Wed 6/25/08	Wed 6/25/08
99	99	99	87	Constriction (H.S. Reservoir)	0 days	Wed 6/25/08	Wed 6/25/08
100	100	100					
101	101	101					
102	102	102	0	Moving Water South (M. Water S.) Phase I, II, & III	4328 days	Mon 6/2/08	Tue 12/31/24
103	103	103	90	Funding (Halfway Pond Phase I)	940 days	Mon 6/1/09	Mon 12/31/12
104	104	104	91	Pre Engineering (Halfway Pond Phase I)	87 days	Tue 11/1/11	Tue 2/28/12
105	105	105	92	Design (Halfway Pond Phase I)	22 days?	Mon 4/2/12	Tue 5/1/12
106	106	106	93	Permit (Halfway Pond Phase I)	87 days?	Tue 11/1/11	Tue 2/28/12
107	107	107	94	Bidding (Halfway Pond Phase I)	11 days?	Wed 4/25/12	Wed 5/9/12
108	108	108	95	Construction (Halfway Pond Phase I)	153 days	Fri 6/1/12	Mon 12/31/12
109	109	109	96	Pre Engineering (Phase II) "Blackstone Preserve"	261 days	Mon 7/1/13	Mon 6/30/14
110	110	110	96	Design (Halfway Pond Phase II) "Blackstone Prserve"	173 days	Fri 7/1/16	Tue 2/28/17
111	111	111	98	Permit (Halfway Pond Phase II) "Blackstone Preserve"	195 days	Wed 6/1/16	Tue 2/28/17
112	112	112	99	Bidding (Halfway Pond Phase II) "Blackstone Preserve"	52 days	Wed 5/31/17	Thu 8/10/17
113	113	113	500	Construction of Pump Station - (JP Murphy Inc.) Phase II	82 days?	Thu 11/1/18	Fri 2/22/19
114	114	114	100	Construction of Berm - (LA-MSID) Phase II	191 days	Thu 5/31/18	Thu 2/21/19
115	115	115	500	Pre Engineering (Phase III) S. of the District	780 days?	Mon 1/3/22	Fri 12/27/24
116	116	116					
117	117	117					
118	118	118	0	New District Headquarters (H.Q.)	1157 days?	Tue 11/27/07	Tue 5/1/12
119	119	119	110	Funding (H.Q.)	548 days	Thu 8/28/08	Fri 10/1/10
120	120	120	111	Pre Engineering Site (H.Q.)	139 days?	Thu 5/17/07	Tue 11/27/07
121	121	121	112	Rezoning Site (H.Q.)	148 days?	Mon 1/7/08	Wed 7/30/08
122	122	122	113	Design Site (H.Q.)	180 days?	Tue 11/27/07	Mon 8/4/08
123	123	123	114	Design Building (Office Bldg.)	85 days	Mon 6/20/11	Thu 10/13/11
124	124	124	115	Permit Phase II Site (Office Bldg.)	30 days	Tue 9/6/11	Fri 10/14/11
125	125	125	116	Permit Building (Office Bldg.)	30 days	Thu 12/1/11	Thu 1/12/12
126	126	126	117	Establish Phase II Project GMP (Office Bldg.)	1 day?	Mon 11/14/11	Mon 11/14/11
127	127	127	118	Phase II Electric Service (Office Bldg.)	90 days	Thu 12/1/11	Wed 4/4/12
128	128	128	118	Phase II Construction (Office Bldg.)	100 days	Thu 12/1/11	Wed 4/18/12
129	129	129	120	Phase II Office Building Move-In (Office Bldg.)	6 days	Thu 5/24/12	Thu 5/31/12
130	130	130	114	Maintenance Bldg. Construction (Maint. Bldg.)	218 days	Wed 12/1/10	Fri 9/30/11
131	131	131	122	Maintenance Building Move-In (Maint. Bldg.)	10 days	Mon 10/3/11	Fri 10/14/11
132	132	132					
133	133	133					
134	134	134	0	Homestead Road Widening Weir (S-57-4-6)	2440 days?	Tue 7/17/07	Fri 11/18/16
135	135	135	125	Funding (Weir) 100% Lee Co. DOT	44 days	Mon 1/4/16	Thu 3/3/16
136	136	136	126	Pre Engineering (Weir)	1401 days?	Mon 8/25/08	Tue 12/31/13
137	137	137	127	Revise Design (H.D.R. Plans)	35 days	Mon 9/1/14	Fri 10/17/14
138	138	138	128	Permit (H.D.R. Plans)	1244 days?	Wed 4/1/09	Tue 12/31/13
139	139	139	129	Bidding (Weir)	26 days	Thu 1/28/16	Thu 3/3/16
140	140	140	130	Electric (Weir)	180 days	Mon 4/25/16	Fri 12/30/16
141	141	141	130	Construction (Weir 57-4-6)	180 days	Mon 4/25/16	Fri 12/30/16
142	142	142					
143	143	143					
144	144	144	500	Hendry 2 Weir Replacement (S-H-2) Hurricane Irma Damage	405 days?	Mon 9/11/17	Fri 3/29/19
145	145	145	134	Funding (90% NRCS) (10% LA-MSID)	1 day?	Tue 5/22/18	Tue 5/22/18
146	146	146	135	Design (AIM Engineering)	48 days?	Tue 6/5/18	Thu 8/9/18
147	147	147	136	Permit (SFWMD)	54 days?	Tue 6/5/18	Fri 8/17/18
148	148	148	137	Bidding (Emergency Declaration)	1 day?	Thu 8/16/18	Thu 8/16/18
149	149	149	137	Electric Service (Weir)	250 days?	Thu 8/16/18	Wed 7/31/19
150	150	150	137	Constrcution (J.P. Murphy, Inc.)	250 days	Thu 8/16/18	Wed 7/31/19



Project: Construction Project Schedule
Date: Thu 6/4/26

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

ID	ID	ID	Priori	Task Name	Duration	Start	Finish
151	151	151					
152	152	152					
153	153	153	500	CREST Storage (Dog/Hendry Connection)	1599 days?	Mon 9/11/17	Thu 7/16/26
154	154	154	500	Funding (Phase I Construction) S-H-2 Weir	1 day?	Tue 5/22/18	Tue 5/22/18
155	155	155	500	Design (Phase I)	48 days?	Tue 6/5/18	Thu 8/9/18
156	156	156	500	Permit (Phase I) SFWMD	54 days?	Tue 6/5/18	Fri 8/17/18
157	157	157	500	Bidding (Phase I)	1 day?	Thu 8/16/18	Thu 8/16/18
158	158	158	500	Construction (Phase I) S-H-2 Weir	250 days?	Thu 8/16/18	Wed 7/31/19
159	159	159	500	Funding (Phase II Construction) Structures/Filter Marsh	1 day	Mon 11/1/21	Mon 11/1/21
160	160	160	500	Design (Phase II)	415 days?	Tue 4/21/20	Fri 12/31/21
161	161	161	500	Permit (Phase II) SFWMD	60 days	Mon 11/1/21	Fri 1/21/22
162	162	162	500	Bidding (Phase II)	25 days	Thu 10/6/22	Wed 11/9/22
163	163	163	500	Construction (Phase II) Structures/Filter Marsh	267 days	Tue 1/24/23	Wed 1/31/24
164	164	164	500	Permit (Phase III) SFWMD	87 days?	Thu 12/1/22	Fri 3/31/23
165	165	165	160	Bidding (Phase III)	32 days	Wed 1/31/24	Thu 3/14/24
166	166	166	161	Construction (Phase III - Lake Excavation)	567 days	Wed 5/15/24	Thu 7/16/26
167	167	167	500	Plantings (South Storage Cell)	21 days	Tue 9/2/25	Tue 9/30/25
168	168	168	500	Plantings (North Storage Cell)	92 days	Fri 2/6/26	Mon 6/15/26
169	169	169					
170	170	170					
171	171	171	500	S-VL-1 Weir Replacement	815 days?	Mon 6/1/20	Sat 7/15/23
172	172	172	500	Funding	815 days?	Mon 6/1/20	Sat 7/15/23
173	173	173	500	Design	262 days?	Mon 6/1/20	Tue 6/1/21
174	174	174	500	Permit (SFWMD)	174 days	Tue 12/1/20	Sat 7/31/21
175	175	175	500	Bidding	31 days	Thu 9/23/21	Thu 11/4/21
176	176	176	500	Construction	400 days	Mon 1/3/22	Sat 7/15/23
177	177	177					
178	178	178					
179	179	179	500	Frank Mann Preserve "GS-10"	3609 days?	Fri 8/1/14	Wed 5/31/28
180	180	180	500	Concept Plan	238 days?	Mon 1/4/16	Wed 11/30/16
181	181	181	500	Land Purchase	1 day?	Thu 4/25/19	Thu 4/25/19
182	182	182	500	Land Stewardship Plan	312 days?	Mon 1/6/20	Tue 3/16/21
183	183	183	500	Start Exotic Vegetation Removal	1113 days?	Mon 9/27/21	Wed 12/31/25
184	184	184	500	60% Design Plans	750 days?	Tue 8/17/21	Mon 7/1/24
185	185	185	500	100% Design Plans	1250 days	Tue 8/17/21	Mon 6/1/26
186	186	186	500	Permitting (SFWMD)	1403 days	Tue 8/17/21	Thu 12/31/26
187	187	187	500	Bidding (Phase I)	45 days	Thu 1/14/27	Wed 3/17/27
188	188	188	500	Construction (Phase I)	522 days	Thu 3/18/27	Fri 3/16/29
189	189	189					
190	190	190					
191	191	191	500	South Marsh Berm Repairs (Hurricane Ian)	44 days	Mon 10/3/22	Thu 12/1/22



Project: Construction Project Schedule
Date: Thu 6/4/26

Task
Split
Progress
Milestone
Summary
Project Summary
External Tasks
External Milestone
Deadline

Lehigh Acres - Municipal Services Improvement District
Capital Improvement Tracking Report

Discussion | Pre Design | Design | Permitting | Construction Funding | Construction | Close Out | No Proj. - Tracking Only

Line #	Proj#	Project Description	Engineer	Contractor	Total Estimated Construction Costs	Total Construction Contract Cost (includes change orders)	Total Spent to Date (Engineering / Construction)	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Comments
		Active Projects															
2	4030	C.R.E.S.T.	AIM	*Turnbull Environmental*	$ 3,715,593.97	$ -	$ 4,423,350.75										Phase II FDEP Grant for $2 Mil. Turnbull Environmental was low bidder at $1,929,500. Phase II Construction Started Feb. 2023 & is 100% complete. Received SFWMD Phase III Permit. Phase III Grant $4,068,800. Phase III construction started 5/4/24 (99% complete). Pump delivered to site. Piping hooked up to canal.
10	4067	SIS-10	AIM	TBD	$ 15,000,000.00		$ 824,695.75										AIM finished study, staff completed 20/20 app for land purchase - MOU approved by each Board. Lee Co. Closed on property. Land Stewardship Plan is done. AIM finishing up Phase I Design. LAMSID working on clearing exotic vegetation.
	4071	Sinkhole	AIM	TBD	$ 3,700,000.00		$ 1,649,376.96										Sinkhole land was purchased. Fencing along Joel Blvd, along condos and along car wash has been completed. AIM & Architect working on cost estimates for building purchase and renovations.
	4072	Robert	AIM	TBD	$ 4,805,000.00		$ 587,609.13										AIM is working on survey and Roger Copp is working on modeling.
	5043	Greenbriar Blvd @ Swallowtail Canal (67-1-5)	LA-MSID	LA-MSID	$ 70,000.00		$ 93,797.95										LAMSID Crews started 1-5-26 (Greenbriar Blvd. W. of Richmond) 100%
	5044	Roderick Ln @ Swallowtail Canal (67-1-1)	LA-MSID	LA-MSID	$ 25,000.00		$ 25,533.08										LAMSID Crews started 1-26-26 (Roderick Ln) 100%
	5045	Butler St. E. (BC 11-4527-2)	LA-MSID	LA-MSID	$ 25,000.00		$ 21,477.60										LAMSID Crews started 2-26-26 (Butler St. E.) E. of McArthur Blvd.
	5046	Butler St. E. (BC 11-4527-1)	LA-MSID	LA-MSID	$ 25,000.00		$ 17,835.54										LAMSID Crews started 2-16-26 (Butler St. E.) W. of McArthur Blvd.
	5047	Butler Ave. S	LA-MSID	LA-MSID	$ 25,000.00		$ 15,556.09										LAMSID Crews started 3-30-26 (Butler Ave. S.) N. of Grant Blvd.
	5048	11 Homestead Rd. S. (Ikeland F.S.) @ Bonefish Canal (57-5-3)	LA-MSID	LA-MSID	$ 10,000.00		$ 6,527.97										LAMSID Crews started 4-13-26 (Ikeland FS & Kiwanis) Mower Acces Crossing
		Projects Waiting for Funding															
7	4012	Hendry Storage	TBD	TBD	$ -	$ -	$ -										ORIST Project may eliminate the need for this project.
		Projects Waiting for Other Reasons															
44	4038	Bellfish Canal Greenway	Lee Co	TBD	$ -	$ -	$ -										Waiting on Lee Co. Sunshine Blvd. Widening Project
16	4040	Hickey's Creek Widening	AIM/Lee Co.	TBD	$ -	$ -	$ 83,775.10										Waiting on Lee Co. Sunshine Blvd. Widening Project
		Completed Projects FY 2016 through FY 2025															
	4069	Panther Canal	ADA	LA-MSID			$ -										LA-MSID crews widened ditch into a canal & M.odeling is complete.
	4026	SR 82 Widening Segments 3 & 4	FDOT	FDOT			$ -										Sacyr Construction started on SR 82 in July 2018 and they started widening Hendry Canal in September 2018. Hendry Canal Widening done. Clears up 100ft (1-14-21).
32	4028	Halfway Pond/Moving Water South - Phase 2	Tetra Tech	JP Murphy	$ 1,034,600.00	$ 1,034,600.00	$ 1,026,693.66										LCEC extended power to site - Start Up completed. Pump is operational.
43	4063	Southwest Lehigh Build Several Structures	RHT	Coastal Concrete	$ 3,113,538.13	$ -	$ 3,408,902.20										Coastal Concrete Products, LLC $3,128,000.00.
14	4036	Homestead Widening: Replacing 5-57-4-6	HDR /Lee Co	JP Murphy	$ 400,000.00	$ -	$ 352,124.00										100% Completed
	4039	S-VL-1	AIM	QE	$ 639,014.75	$ 621,359.00	$ 669,586.73										SFWMD Permit was issued August 20th, 2021 - Bid Opening was November 4th, 2021 Contract was awarded to QE for $621,359.00 QE finishing up punch list items. Weir is fully operational. Concrete touch-up repairs completed. Completed close-out paperwork & final payment
17	4055	Hendry Extension Widening	T.Y. Lin	SACYR	TBD	$ -	$ 481,378.71										TY Lin finished updating plans for FDOT project. Sacyr hauling dirt for roadway 300-350 trucks per day. Canal widening is done. Sod finished. Project 100%.
40	4061	West Marsh Improvements	AIM	AIAX	$ 1,000,000.00	$ -	$ 870,037.07										AIAX paved roads and started hauling dirt in Nov. 2017. All Phase I is 100%. Starting on Phase II dirt hauling June 2019. Phase II is 100% complete. AIAX completed as-builts.
42	4062	West Marsh Phase III	AIM	QE	$ 3,000,000.00	$ -	$ 2,333,655.00										Phase III Awarded to QE and they started July 2020. Phase III is 100% complete. All 5 structures are built and gates installed. The bridge is finished, fencing complete and plantings are finished. Programming and final paper work are complete..
27	5001	Culvert Replacement - Empire @ Cocoplum	ECWCD	ECWCD			$ 24,835.83										#27 Empire Ave at 100%
26	5002	Culvert Replacement - Harrison @ Spur C	ECWCD	ECWCD			$ 25,663.28										#28 Harrison Ave at 100%
28	5003	Culvert Replacement - McArthur Blvd @ Iten	ECWCD	ECWCD			$ 26,888.03										#29 McArthur Ave at 100%
29	5004	Culvert Replacement - Parkdale @ Bullfrog	ECWCD	ECWCD			$ 91,817.77										#30 Parkdale Blvd. at 100%
48	5005	Culvert Replacement - Champion Ave @ Beauty Canal	LA-MSID	LA-MSID			$ 65,803.10										Champion Ave. Culvert Replacement Finished.
31	5006	Culvert Replacement - Martin Ave. @ Hammerhead Canal	LA-MSID	LA-MSID			$ 14,737.75										Martin Ave. Culvert Replacement Finished
47	5007	Culvert Replacement - Aletha Ave. S. @ Royal Canal	LA-MSID	LA-MSID			$ 21,706.49										Aletha Ave. S. Culvert Replacement Finished
30	5008	Culvert Replacement - Plumosa Ave. @ Blue Mari Canal	LA-MSID	LA-MSID			$ 12,570.71										Plumosa Ave. Culvert Replacement Finished
34	5009	Culvert Replacement - Lakeridge Drive @ Greenbrier Swamp	LA-MSID	LA-MSID			$ 29,289.08										Lakeridge Culvert Replacement Finished
45	5010	Culvert Replacement - W Hoak Canal @ S Boundary Canal	LA-MSID	LA-MSID			$ 19,075.67										100% Completed
35	5011	Culvert Replacement - Richmond Ave. @ Perimeter Canal	LA-MSID	LA-MSID			$ 52,541.65										100% Completed
37	5012	Culvert Replacement - Richmond Ave. @ Amberwood Canal	LA-MSID	LA-MSID			$ 28,053.21										100% Completed
38	5013	Culvert Replacement - Anacanda Ave. S. @ Scrub Oak Canal	LA-MSID	LA-MSID			$ 27,381.20										100% Completed
39	5014	Culvert Replacement - Jaguar Blvd at Bald Eagle Canal	LA-MSID	LA-MSID	$ 25,000.00		$ 24,559.72										Jaguar Blvd Culvert Started 6-15-19 and Finished 5-2-19
	5015	Culvert Replacement - Ashley Road at Limpkin Canal	LA-MSID	LA-MSID	$ 20,000.00		$ 18,052.24										Ashley Road Culvert Started 2-26-19 and Finished 4-11-19
	5016	Culvert Replacement - Hull Ave. S. at Vulture Canal	LA-MSID	LA-MSID	$ 20,000.00		$ 15,039.40										Hull Ave. S. Culvert Started 5-7-19 and Finished 7-20-19
	5017	Culvert Replacement - McArthur Blvd. at Wagtail Canal	LA-MSID	LA-MSID	$ 20,000.00		$ 16,092.54										McArthur Blvd Culvert Started 5-21-19 and Finished 6-6-19
	5018	Culvert Replacement - Casey St. at Sunset Canal	LA-MSID	LA-MSID	$ 20,000.00		$ 17,592.21										Casey St. Culvert Starting 6-11-19 and Finished 6-27-19
	5019	Culvert Replacement - 48th Street SW	LA-MSID	LA-MSID	$ 25,000.00		$ 28,079.10										Finished construction on March 5th, 2020
	5020	Culvert Replacement - 49th Street SW	LA-MSID	LA-MSID	$ 25,000.00		$ 16,275.29										Started construction on March 6th, 2020
	5021	Culvert Replacement - 28th Street SW	LA-MSID	LA-MSID	$ 25,000.00		$ 15,072.22										Started construction on June 15th, 2020
	5022	Culvert Replacement - 59th Street W	LA-MSID	LA-MSID	$ 25,000.00		$ 14,092.36										Started construction on May 26th, 2020
	5023	Culvert Replacement - Long Avenue S	LA-MSID	LA-MSID	$ 25,000.00		$ 16,984.21										Finished construction on July 29th, 2020
	5024	Culvert Replacement - Richmond Ave. N. at Longwing Canal	LA-MSID	LA-MSID	$ 17,500.00		$ 18,773.14										Richmond Ave. N. Culvert Starting 8-26-19 and Finished 9-18-19
46	4060	Phase 2 Roadway S-CR8-1, S-SR 82, New Edmonston Subbasin	TY	WIBITH	$ 1,550,000.00	$ 1,550,000.00	$ 1,419,384.35										S-CR8-1 & S-SR-1 SE are 100% complete.
	4037	Culvert Replacement - 26th St. W. (S-R-1 Structure)	LA-MSID	LA-MSID	$ 75,000.00		$ 125,051.49										100% - Completed in-house with 3930 culverts.
	5025	Culvert Replacement - Bell Blvd	LA-MSID	LA-MSID	$ 35,000.00		$ 74,794.69										100% - Finished construction on February 10th, 2021.
	5026	Culvert Replacement - 40th Street SW	LA-MSID	LA-MSID	$ 25,000.00		$ 23,559.91										100% - Finished construction on March 4th, 2021.
	5027	Culvert Replacement - Golfview Blvd	LA-MSID	LA-MSID	$ 25,000.00		$ 25,427.66										100% - Finished construction on March 23rd, 2021.
	5028	Culvert Replacement - Douglas Lane	LA-MSID	LA-MSID	$ 35,000.00		$ 34,903.10										100% - Started construction March 10th, 2021.
	5029	Culvert Replacement - 51st Street West	LA-MSID	LA-MSID	$ 25,000.00		$ 20,733.71										Started design April 1st, 2021. Starting construction 5/11/21. Finished construction 5/27/21.
	5030	Culvert Replacement - Acacia Ave	LA-MSID	LA-MSID	$ 50,000.00		$ 78,726.42										Starting design May 10th, 2021. Construction is 100% done.
	5031	(West) Alabama Rd @ Panther Canal	LA-MSID	LA-MSID	$ 40,000.00		$ 27,749.42										River pipes damaged by a car wreck. New riser heads were installed and concrete poured around it. Construction is 100% complete.
	5032	(West) Bedman Creek @ Hendry Canal	LA-MSID	LA-MSID	$ 40,000.00		$ 24,575.94										River pipe was rusted out. New pipe and riser head instalked. Construction is 100% complete.
	5033	Richmond @ 8th St. (S-G-1 Structure)	LA-MSID	LA-MSID	$ 40,000.00		$ 6,904.24										Remaining parts of rusted gate removed and a new gate was installed. Construction is 100% complete.
	5034	Beauty Canal (46-21-1) W. Side of Gunnery Rd.	LA-MSID	LA-MSID	$ 40,000.00		$ 4,108.56										Old pipe was removed and replaced with new pipe and rip-rap. Construction is 100% complete.
	5035	Ringneck Canal @ Airview Ave.	LA-MSID	LA-MSID	$ 40,000.00		$ 423.40										Rusted out riser head was plugged with large sand bags to test elevations for 1 year. Construction is 100% complete.
	5036	Culvert Replacement - 59th St. W. @ Remora Canal	LA-MSID	LA-MSID	$ 40,000.00		$ 40,770.05										59th St. W. In-House culvert replacement was started on August 9th and Completed on August 27th, 2024.
	5037	Culvert Replacement - 51st St. W. @ Runner Canal	LA-MSID	LA-MSID	$ 40,000.00		$ 14,688.73										51st St. W. In-House culvert replacement was started on September 16th, 20234 and Completed on September 26th, 2024.
	5038	Culvert Replacement - Centenial Outfall @ Champion	LA-MSID	LA-MSID	$ 40,000.00		$ 8,922.87										Culvert Replacement - Centenial Outfall @ Champion Completed October 10th, 2024
	5039	Culvert Replacement - Billings St. Outfall	LA-MSID	LA-MSID	$ 40,000.00		$ 5,567.45										Culvert Replacement - Billings St. Outfall Completed October 24th, 2024
	5040	Culvert Replacement - Ridgemont Drive @ Webworm Canal	LA-MSID	LA-MSID	$ 40,000.00		$ 31,668.77										Culvert Replacement - Ridgemont Drive @ Webworm Canal started on November 4th & finished on November 21st, 2024
	5041	Culvert- Replacement - Moore Ave	LA-MSID	LA-MSID	$ 40,000.00		$ 40,765.09										Construction started after South Mirath Hurricane tax repairs were completed. Construction is 100% complete. County ripraved crossing.
	5042	Culvert Replacement - Magenta Ave. @ Longwing Canal	LA-MSID	LA-MSID	$ 40,000.00		$ 48,021.99										Culvert Replacement - Magenta Ave. @ Longwing Canal - Completed January 30th, 2025
	6002	Buckingham Park - NRCS (Slope Repair)	AIM	LA-MSID	$ 788,601.00	$ 788,601.00	$ 470,731.78										LA-MSID crews started placing Flexamat slope stabilization product in September. LAMSID finished project and closing out with NRCS for payment.
	6003	Buckingham Park - NRCS (Debris)	AIM	LA-MSID	$ 17,394.30	$ 17,394.30	$ 14,955.08										LA-MSID crews finished debris removal and clean-up in September.
	6006	S-H-2 - NRCS (Rebuild Weir)	AIM	JP Murphy	$ 809,485.00	$ 809,485.00	$ 824,457.16										Steel sheet piling has been delivered and installed. Concrete cap and conc. slope paving poured, rip-rap placed. Gates installed, catwalk completed, slopes restored and sod placed. Weir is finished and power hooked up by FP&L power.
						Change from last report											

Funded by:
South Florida Water Management
Not yet determined
Multiple Org/Indiv
Florida Dept of Environmental Protection
Lehigh Acres Municipal Services Improvement District

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
COMBINED BALANCE SHEET
APRIL 30, 2026 (UN-AUDITED)

			Capital Project Funds			
	General	Debt Service	Capital Projects	Capital Equipment	Bridge Renewal Replacement	Total
ASSETS						
Cash and Cash Equivalents	$ 4,843,976.82	$ 1,001,691.40	$ 0.00	$ 0.00	$ 0.00	$ 5,845,668.22
Due from Other Governments	38,027.91	0.00	114,222.50	0.00	0.00	152,250.41
Due from Other Funds	378,414.20	0.00	0.00	206,325.34	0.00	584,739.54
Accounts Receivable, net	664,348.22	0.00	0.00	0.00	0.00	664,348.22
Prepaid Items	15,209.66	0.00	0.00	0.00	0.00	15,209.66
Deposits	1,851.00	0.00	0.00	0.00	0.00	1,851.00
Restricted Investments	3,482,326.42	0.00	766,468.51	148,640.28	1,394,421.20	5,791,856.41
Total Assets	$ 9,424,154.23	$ 1,001,691.40	$ 880,691.01	$ 354,965.62	$ 1,394,421.20	$ 13,055,923.46
LIABILITIES, DEFERRED INFLOWS & FUND BALANCE						
LIABILITIES						
Accounts Payable	207,728.82	0.00	66,485.22	0.00	1,332.71	275,546.75
Retainage Payable	0.00	0.00	79,244.13	0.00	0.00	79,244.13
Due to Other Funds	0.00	0.00	571,830.77	0.00	12,908.77	584,739.54
Deposits	14,488.91	0.00	0.00	56,770.40	0.00	71,259.31
Accrued Liabilities	2.62	0.00	0.00	0.00	0.00	2.62
Total Liabilities	222,220.35	0.00	717,560.12	56,770.40	14,241.48	1,010,792.35
DEFERRED INFLOWS						
Unavailable Revenue - Grants	644,087.45	0.00	114,222.50	0.00	0.00	758,309.95
Total Deferred Inflows	644,087.45	0.00	114,222.50	0.00	0.00	758,309.95
FUND BALANCE						
Fund Balance - Beginning	5,848,585.77	856,684.17	274,356.73	(81,137.22)	1,352,801.16	8,251,290.61
Change in Fund Balance	2,709,260.66	145,007.23	(225,448.34)	379,332.44	27,378.56	3,035,530.55
Total Fund Balance	8,557,846.43	1,001,691.40	48,908.39	298,195.22	1,380,179.72	11,286,821.16
Total Liabilities, Deferred Inflows & Fund Balance	$ 9,424,154.23	$ 1,001,691.40	$ 880,691.01	$ 354,965.62	$ 1,394,421.20	$ 13,055,923.46

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
COMBINED STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE
APRIL 30, 2026 (UN-AUDITED)
YEAR-TO-DATE

			CAPITAL PROJECT FUNDS			
	General	Debt Service	Capital Projects	Capital Equipment	Bridge Renewal Replacement	Total
REVENUES						
Tax Assessments	$ 6,987,348.81	$ 0.00	$ 0.00	$ 0.00	$ 0.00	$ 6,987,348.81
Tax Assessments - PY/Penalties/Interest	0.00	0.00	0.00	672.60	0.00	672.60
Tax Assessments - Discounts	(225,098.68)	0.00	0.00	0.00	0.00	(225,098.68)
Permit Fees	0.00	0.00	0.00	700,976.60	0.00	700,976.60
Intergovernmental - Grants	0.00	0.00	956,927.90	0.00	0.00	956,927.90
Miscellaneous Revenue	142,012.23	0.00	123,790.39	0.00	0.00	265,802.62
Interest Income	115,766.94	12,024.96	17,090.14	3,314.24	31,091.78	179,288.06
Total Revenues	$ 7,020,029.30	$ 12,024.96	$ 1,097,808.43	$ 704,963.44	$ 31,091.78	$ 8,865,917.91
EXPENDITURES						
Current						
Physical Environment						
Administration						
Personal Services	884,890.65	0.00	0.00	0.00	0.00	884,890.65
Operating Expenses	653,348.32	0.00	0.00	0.00	0.00	653,348.32
Total Administration	1,538,238.97	0.00	0.00	0.00	0.00	1,538,238.97
Field Operations						
Personal Services	1,690,715.91	0.00	0.00	0.00	0.00	1,690,715.91
Operating Expenses	475,614.22	0.00	0.00	0.00	3,713.22	479,327.44
Total Field Operations	2,166,330.13	0.00	0.00	0.00	3,713.22	2,170,043.35
Capital Outlay	0.00	0.00	1,323,256.77	356,781.00	0.00	1,680,037.77
Debt Service						
Principal	0.00	444,883.57	0.00	0.00	0.00	444,883.57
Interest	0.00	28,333.70	0.00	0.00	0.00	28,333.70
Total Debt Service	0.00	473,217.27	0.00	0.00	0.00	473,217.27
Total Expenditures	$ 3,704,569.10	$ 473,217.27	$ 1,323,256.77	$ 356,781.00	$ 3,713.22	$ 5,861,537.36
Excess of Revenues over (under) expenditures	$ 3,315,460.20	$ (461,192.31)	$ (225,448.34)	$ 348,182.44	$ 27,378.56	$ 3,004,380.55
OTHER FINANCING SOURCES (USES)						
Transfers In	0.00	606,199.54	0.00	0.00	0.00	606,199.54
Transfers Out	(606,199.54)	0.00	0.00	0.00	0.00	(606,199.54)
Proceeds from Sale of Fixed Assets	0.00	0.00	0.00	31,150.00	0.00	31,150.00
Total other financing sources and uses	(606,199.54)	606,199.54	0.00	31,150.00	0.00	31,150.00
Net change in fund balance	2,709,260.66	145,007.23	(225,448.34)	379,332.44	27,378.56	3,035,530.55
Fund Balance - Beginning	5,848,585.77	856,684.17	274,356.73	(81,137.22)	1,352,801.16	8,251,290.61
Fund Balance - Ending	$ 8,557,846.43	$ 1,001,691.40	$ 48,908.39	$ 298,195.22	$ 1,380,179.72	$11,286,821.16

Lehigh Acres Municipal Services Improvement District - Report 340

STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE

BUDGET vs. ACTUAL YTD - GENERAL FUND

For The Month Ended April 30, 2026 (Un-Audited)

Benchmark 58.33 %

	BUDGET($)	YTD ACTUAL($)	VARIANCE FAVORABLE/ (UNFAVORABLE)($)	PERCENT OF ACTUAL TO BUDGET(%)
Fund Balance - Beginning	5,730,425.10	5,848,585.77	118,160.67	102.06
REVENUES				
Tax Assessments	7,730,535.22	6,987,348.81	(743,186.41)	90.39
Tax Assessments - Discounts	(231,916.06)	(225,098.68)	6,817.38	97.06
Permit Fees	0.00	0.00	0.00	0.00
Miscellaneous Revenue	38,529.76	142,012.23	103,482.47	368.58
Interest Income	125,000.00	115,766.94	(9,233.06)	92.61
Prior Year Surplus	0.00	0.00	0.00	0.00
Total Revenues	7,662,148.92	7,020,029.30	(642,119.62)	91.62
EXPENDITURES				
Current				
Physical Environment				
Administration				
Personal Services	1,743,975.00	884,890.65	859,084.35	50.74
Operating Expenses	774,475.00	653,348.32	121,126.68	84.36
Total Administration	2,518,450.00	1,538,238.97	980,211.03	61.08
Stormwater Operations				
Personal Services	3,250,783.00	1,690,715.91	1,560,067.09	52.01
Operating Expenses	979,176.30	475,614.22	503,562.08	48.57
Total Stormwater Operations	4,229,959.30	2,166,330.13	2,063,629.17	51.21
Capital Outlay	0.00	0.00	0.00	0.00
Debt Service				
Principal	0.00	0.00	0.00	0.00
Interest	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00
Total Debt Service	0.00	0.00	0.00	0.00
Total Expenditures	6,748,409.30	3,704,569.10	3,043,840.20	54.90
Excess of Revenues over (under) Expenditures	913,739.62	3,315,460.20	2,401,720.58	362.85
OTHER FINANCING SOURCES (USES)				
Transfers Out	(1,215,224.54)	(606,199.54)	609,025.00	49.88
Total Other Financing Sources and Uses	(1,215,224.54)	(606,199.54)	609,025.00	49.88
Net Change in Fund Balance	(301,484.92)	2,709,260.66	3,010,745.58	(898.64)
Fund Balance - Ending	5,428,940.18	8,557,846.43	3,128,906.25	157.63

Lehigh Acres Municipal Services Improvement District - Report 340

STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE
BUDGET vs. ACTUAL YTD - DEBT SERVICE FUND
For The Month Ended April 30, 2026 (Un-Audited)

Benchmark 58.33 %

	BUDGET($)	YTD ACTUAL($)	VARIANCE FAVORABLE/ (UNFAVORABLE)($)	PERCENT OF ACTUAL TO BUDGET(%)
Fund Balance - Beginning	856,684.17	856,684.17	0.00	100.00
REVENUES				
Permit Fees	0.00	0.00	0.00	0.00
Interest Income	7,000.00	12,024.96	5,024.96	171.79
Prior Year Surplus	0.00	0.00	0.00	0.00
Total Revenues	7,000.00	12,024.96	5,024.96	171.79
EXPENDITURES				
Current				
Physical Environment				
Administration				
Total Administration	0.00	0.00	0.00	0.00
Stormwater Operations				
Total Stormwater Operations	0.00	0.00	0.00	0.00
Capital Outlay	0.00	0.00	0.00	0.00
Debt Service				
Principal	800,349.69	444,883.57	355,466.12	55.59
Interest	48,874.85	28,333.70	20,541.15	57.97
Other	0.00	0.00	0.00	0.00
Total Debt Service	849,224.54	473,217.27	376,007.27	55.72
Total Expenditures	849,224.54	473,217.27	376,007.27	55.72
Excess of Revenues over (under) Expenditures	(842,224.54)	(461,192.31)	381,032.23	54.76
OTHER FINANCING SOURCES (USES)				
Transfers In	849,224.54	606,199.54	(243,025.00)	71.38
Total Other Financing Sources and Uses	849,224.54	606,199.54	(243,025.00)	71.38
Net Change in Fund Balance	7,000.00	145,007.23	138,007.23	2,071.53
Fund Balance - Ending	863,684.17	1,001,691.40	138,007.23	115.98

Lehigh Acres Municipal Services Improvement District - Report 340

STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE
BUDGET vs. ACTUAL YTD - CAPITAL PROJECTS FUND

Benchmark 58.33 %

	BUDGET($)	YTD ACTUAL($)	VARIANCE FAVORABLE/ (UNFAVORABLE)($)	PERCENT OF ACTUAL TO BUDGET(%)
Fund Balance - Beginning	1,952,760.25	274,356.73	(1,678,403.52)	14.05
REVENUES				
Permit Fees	0.00	0.00	0.00	0.00
Intergovernmental - Revenue	3,115,000.00	956,927.90	(2,158,072.10)	30.72
Miscellaneous Revenue	0.00	123,790.39	123,790.39	0.00
Interest Income	20,000.00	17,090.14	(2,909.86)	85.45
Prior Year Surplus	0.00	0.00	0.00	0.00
Total Revenues	3,135,000.00	1,097,808.43	(2,037,191.57)	35.02
EXPENDITURES				
Current				
Physical Environment				
Administration				
Total Administration	0.00	0.00	0.00	0.00
Stormwater Operations				
Total Stormwater Operations	0.00	0.00	0.00	0.00
Capital Outlay	10,975,000.00	1,323,256.77	9,651,743.23	12.06
Debt Service				
Principal	0.00	0.00	0.00	0.00
Interest	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00
Total Debt Service	0.00	0.00	0.00	0.00
Total Expenditures	10,975,000.00	1,323,256.77	9,651,743.23	12.06
Excess of Revenues over (under) Expenditures	(7,840,000.00)	(225,448.34)	7,614,551.66	2.88
OTHER FINANCING SOURCES (USES)				
Total Other Financing Sources and Uses	0.00	0.00	0.00	0.00
Net Change in Fund Balance	(7,840,000.00)	(225,448.34)	7,614,551.66	2.88
Fund Balance - Ending	(5,887,239.75)	48,908.39	5,936,148.14	(0.83)

Lehigh Acres Municipal Services Improvement District - Report 340

STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE
BUDGET vs. ACTUAL YTD - EQUIPMENT RENEWAL & REPLACEMENT FUND

Benchmark 58.33 %

	BUDGET($)	YTD ACTUAL($)	VARIANCE FAVORABLE/ (UNFAVORABLE)($)	PERCENT OF ACTUAL TO BUDGET(%)
Fund Balance - Beginning	(195,851.02)	(81,137.22)	114,713.80	41.43
REVENUES				
Tax Assessments - PY/Penalties/Interest	0.00	672.60	672.60	0.00
Permit Fees	50,000.00	700,976.60	650,976.60	1,401.95
Interest Income	3,600.00	3,314.24	(285.76)	92.06
Prior Year Surplus	0.00	0.00	0.00	0.00
Total Revenues	53,600.00	704,963.44	651,363.44	1,315.23
EXPENDITURES				
Current				
Physical Environment				
Administration				
Total Administration	0.00	0.00	0.00	0.00
Stormwater Operations				
Total Stormwater Operations	0.00	0.00	0.00	0.00
Capital Outlay	410,000.00	356,781.00	53,219.00	87.02
Debt Service				
Principal	0.00	0.00	0.00	0.00
Interest	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00
Total Debt Service	0.00	0.00	0.00	0.00
Total Expenditures	410,000.00	356,781.00	53,219.00	87.02
Excess of Revenues over (under) Expenditures	(356,400.00)	348,182.44	704,582.44	(97.69)
OTHER FINANCING SOURCES (USES)				
Transfers In	366,000.00	0.00	(366,000.00)	0.00
Proceeds from Sale of Fixed Assets	0.00	31,150.00	31,150.00	0.00
Total Other Financing Sources and Uses	366,000.00	31,150.00	(334,850.00)	8.51
Net Change in Fund Balance	9,600.00	379,332.44	369,732.44	3,951.38
Fund Balance - Ending	(186,251.02)	298,195.22	484,446.24	(160.10)

Lehigh Acres Municipal Services Improvement District - Report 340

STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE
BUDGET vs. ACTUAL YTD - BRIDGE RENEWAL & REPLACEMENT FUND

Benchmark 58.33 %

	BUDGET($)	YTD ACTUAL($)	VARIANCE FAVORABLE/ (UNFAVORABLE)($)	PERCENT OF ACTUAL TO BUDGET(%)
Fund Balance - Beginning	1,634,673.97	1,352,801.16	(281,872.81)	82.76
REVENUES				
Tax Assessments	285,000.00	0.00	(285,000.00)	0.00
Permit Fees	0.00	0.00	0.00	0.00
Interest Income	15,000.00	31,091.78	16,091.78	207.28
Prior Year Surplus	0.00	0.00	0.00	0.00
Total Revenues	300,000.00	31,091.78	(268,908.22)	10.36
EXPENDITURES				
Current				
Physical Environment				
Administration				
Total Administration	0.00	0.00	0.00	0.00
Stormwater Operations				
Operating Expenses	50,000.00	3,713.22	46,286.78	7.43
Total Stormwater Operations	50,000.00	3,713.22	46,286.78	7.43
Capital Outlay	0.00	0.00	0.00	0.00
Debt Service				
Principal	0.00	0.00	0.00	0.00
Interest	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00
Total Debt Service	0.00	0.00	0.00	0.00
Total Expenditures	50,000.00	3,713.22	46,286.78	7.43
Excess of Revenues over (under) Expenditures	250,000.00	27,378.56	(222,621.44)	10.95
OTHER FINANCING SOURCES (USES)				
Total Other Financing Sources and Uses	0.00	0.00	0.00	0.00
Net Change in Fund Balance	250,000.00	27,378.56	(222,621.44)	10.95
Fund Balance - Ending	1,884,673.97	1,380,179.72	(504,494.25)	73.23

LEHIGH ACRES MSID

LEHIGH ACRES

MUNICIPAL SERVICES IMPROVEMENT DISTRICT

Memo

To: Board of Commissioners

From: Bill Walker

Date: 6/1/2026

Re: Field Report

The following Field Report details the field activities completed during the month of May 2025. Staff is hereby requesting that the Board of Commissioners accept this report.

1) **Canals Sprayed:**
   Spray crews have been treating the Districts Canals and Right-of-ways. Preserve maintenance will be conducted on days when the weather is not conducive to treating canals.

2) **Canal Cleanout:**
   Canal clean out is on schedule for the year.

3) **Canal Mowing:**
   Both mowing crews have started the mowing circuit. Flat mowers completed 45% and the Slope mowers have completed 35% of the first cycle.

4) **Canal Grading and Clearing:**
   Crews are working on washouts and grading behind the canal cleanout crews.

5) **Right of Way Program:**
   Staff worked on clearing ROW obstructions ahead of the clean out nad mowing crews, inspecting the District's road crossing culverts and the NDPES Annual Report.

6) **Preserves:**
   Spray crews worked on preserve maintenance and special projects when weather was not conducive for canal treatments.

7) **Water Quality:**
   Staff has received the Water Quality sampling results from the City of Cape Coral and the results are normal for this time of year.

8) Facilities:

No notable changes have occurred with the Districts facilities over the last month. Staff has continued to maintain the parks with mowing, mulching and trash removal.

9) Fleet Maintenance:

Normal fleet maintenance has occurred during the last month.

10) Education/ Meetings:

None to Report.

11) Vandalism:

None to Report.

Lehigh Acres Municipal Services Improvement District
Account Detail 10/01/2025 to 9/30/2026

Date	Post Type	Source	Reference	Description	Units	Debit	Credit	Balance
0001-0001-538-3100 Legal Fees								0.00
10/31/2025	Actual	A/P	SCB-166002	Lewis Longman & Walker P.A. General Counsel through 10/31/25		7,105.00		7,105.00
12/30/2025	Actual	A/P	SCB-166830	Lewis Longman & Walker P.A. General Counsel through 12/30/25		3,738.46		10,843.46
1/20/2026	Actual	A/P	20342	Hultman & Joshi, P.A. Matter: General through 08/28/25		925.00		11,768.46
1/20/2026	Actual	A/P	20513	Hultman & Joshi, P.A. Matter: General for 10/13/25		75.00		11,843.46
1/20/2026	Actual	A/P	20448	Hultman & Joshi, P.A. Matter: General through 10/14/25		725.00		12,568.46
2/03/2026	Actual	A/P	SCB-167415	Lewis Longman & Walker P.A. General Counsel through 01/26/26		1,155.00		13,723.46
2/25/2026	Actual	A/P	SCB-167632	Lewis Longman & Walker P.A. General Counseling through 02/25/26		3,515.00		17,238.46
4/08/2026	Actual	A/P	SCB-168023	Lewis Longman & Walker P.A. General Counsel through 03/31/26		2,345.00		19,583.46
4/30/2026	Actual	A/P	20640	Hultman & Joshi, P.A. Matter: General through 02/17/26		250.00		19,833.46
4/30/2026	Actual	A/P	20365	Hultman & Joshi, P.A. Matter: General through 09/02/25		425.00		20,258.46
4/30/2026	Actual	A/P	SCB-168418	Lewis Longman & Walker P.A. General Counsel through 04/25/26		3,815.00		24,073.46
5/11/2026	Actual	A/P	20708	Hultman & Joshi, P.A. Matter: General through 04/30/26		350.00		24,423.46
5/31/2026	Actual	A/P	SCB-168790	Lewis Longman & Walker P.A. General Counsel through 05/31/26		4,158.00		28,581.46
0001-0001-538-3100 Legal Fees Total					0.00	28,581.46	0.00	28,581.46
0001-0001-538-3110 Legislative Fees								0.00
10/05/2025	Actual	A/P	MCL-165963	Lewis Longman & Walker P.A. Legislative Representation		4,286.90		4,286.90
10/09/2025	Actual	A/P	MCL-165596	Lewis Longman & Walker P.A. Legislative Representation		4,000.00		8,286.90
11/27/2025	Actual	A/P	SCB-166268	Lewis Longman & Walker P.A. General Counsel through 11/27/25		6,608.88		14,895.78
11/30/2025	Actual	A/P	MCL-166349	Lewis Longman & Walker P.A. Legislative Representation		4,169.46		19,065.24
12/31/2025	Actual	A/P	MCL-166752	Lewis Longman & Walker P.A. Legislative Represention		4,014.35		23,079.59

Date	Post Type	Source	Reference	Description	Units	Debit	Credit	Balance
1/31/2026	Actual	A/P	MCL-167134	Lewis Longman & Walker P.A. Legislative Representation		4,148.28		27,227.87
3/10/2026	Actual	A/P	MCL-1676680	Lewis Longman & Walker P.A. Legislative Representation		4,383.01		31,610.88
4/09/2026	Actual	A/P	MCL-168458	Lewis Longman & Walker P.A. Legislative Representation		4,161.49		35,772.37
4/10/2026	Actual	A/P	MCL-168069	Lewis Longman & Walker P.A. Legislative Representation		4,102.89		39,875.26
6/03/2026	Actual	A/P	MCL-168762	Lewis Longman & Walker P.A. Legislative Representation		4,041.68		43,916.94
0001-0001-538-3110 Legislative Fees Total					0.00	43,916.94	0.00	43,916.94
Report Total					**0.00**	**72,498.40**	**0.00**	**72,498.40**

Lehigh Acres Municipal Services Improvement District
Account Detail 10/01/2025 to 9/30/2026

Date	Post Type	Source	Reference	Description	Units	Debit	Credit	Balance
0001-0001-538-3130 Engineering								0.00
10/31/2025	Actual	A/P	252166-1	AIM Engineering & Surveying, Inc. General Engineering through 10/31/25		11,891.50		11,891.50
11/21/2025	Actual	A/P	252166-2	AIM Engineering & Surveying, Inc. General Engineering through 11/21/25		5,816.50		17,708.00
1/09/2026	Actual	A/P	252166-3	AIM Engineering & Surveying, Inc. General Engineering through 01/09/26		4,882.00		22,590.00
2/11/2026	Actual	A/P	252166-4	AIM Engineering & Surveying, Inc. General Engineering though 02/06/26		9,524.25		32,114.25
2/27/2026	Actual	A/P	252166-5	AIM Engineering & Surveying, Inc. General Engineering through 02/27/26		3,391.00		35,505.25
4/08/2026	Actual	A/P	252166-6	AIM Engineering & Surveying, Inc. General Engineering through 04/03/26		12,474.00		47,979.25
4/30/2026	Actual	A/P	252166-7	AIM Engineering & Surveying, Inc. General Engineering through 04/30/26		10,413.00		58,392.25
5/29/2026	Actual	A/P	252166-8	AIM Engineering & Surveying, Inc. General Engineering through 05/29/26		5,187.25		63,579.50
0001-0001-538-3130 Engineering Total					0.00	63,579.50	0.00	63,579.50
0306-4030-538-3130 C.R.E.S.T. Project - Engineering								0.00
11/21/2025	Actual	A/P	191026-67	AIM Engineering & Surveying, Inc. ADDITIONAL DESIGN & PERMITTING SERVICES for the CALOOSAHATCHEE RIVER ESTUARY STORAGE AND TREATMENT (CREST) PROJECT (ADDITIONAL PHASE 3		196.95		196.95
4/08/2026	Actual	A/P	191026-69	AIM Engineering & Surveying, Inc. CREST PHIII Enhanced Pump Setup Plan through 04/03/26		6,704.48		6,901.43

Date	Post Type	Source	Reference	Description	Units	Debit	Credit	Balance
4/08/2026	Actual	A/P	191026-68	AIM Engineering & Surveying, Inc. ADDITIONAL DESIGN & PERMITTING SERVICES for the CALOOSAHATCHEE RIVER ESTUARY STORAGE AND TREATMENT (CREST) PROJECT (ADDITIONAL PHASE 3		393.90		7,295.33
0306-4030-538-3130 C.R.E.S.T. Project - Engineering Total					0.00	7,295.33	0.00	7,295.33
0306-4067-538-3130 GS-10 - Engineering								0.00
10/31/2025	Actual	A/P	211364-46	AIM Engineering & Surveying, Inc. LA-MSID Section 10 Concept Plan - Conceptual Construction Budget Engineering Estimate through 10/31/25		730.00		730.00
10/31/2025	Actual	A/P	211364-47	AIM Engineering & Surveying, Inc. CHANGE ORDER NO. 01 – GS-10 Stormwater Storage and Treatment Project through 10/31/25		20,204.00		20,934.00
11/21/2025	Actual	A/P	211364-48	AIM Engineering & Surveying, Inc. CHANGE ORDER NO. 01 – GS-10 Stormwater Storage and Treatment Project through 11/21/25		1,216.25		22,150.25
1/13/2026	Actual	A/P	211364-49	AIM Engineering & Surveying, Inc. CHANGE ORDER NO. 01 – GS-10 Stormwater Storage and Treatment Project through 01/09/26		11,457.50		33,607.75
2/11/2026	Actual	A/P	211364-50	AIM Engineering & Surveying, Inc. CHANGE ORDER NO. 01 – GS-10 Stormwater Storage and Treatment Project through 02/06/26		6,432.50		40,040.25
2/11/2026	Actual	A/P	252112-1	AIM Engineering & Surveying, Inc. Frank Mann Preserve, Phase 2 Project though 02/06/26		4,487.50		44,527.75
2/27/2026	Actual	A/P	252112-2	AIM Engineering & Surveying, Inc. Frank Mann Preserve, Phase 2 Project through 02/27/26		3,488.75		48,016.50
2/27/2026	Actual	A/P	211364-51	AIM Engineering & Surveying, Inc. CHANGE ORDER NO. 01 – GS-10 Stormwater Storage and Treatment Project through 02/27/26		8,165.00		56,181.50

Date	Post Type	Source	Reference	Description	Units	Debit	Credit	Balance
4/08/2026	Actual	A/P	252112-3	AIM Engineering & Surveying, Inc. Frank Mann Preserve, Phase 2 Project through 04/03/26		13,768.75		69,950.25
4/08/2026	Actual	A/P	211364-52	AIM Engineering & Surveying, Inc. CHANGE ORDER NO. 01 – GS-10 Stormwater Storage and Treatment Project through 04/03/26		7,433.75		77,384.00
4/30/2026	Actual	A/P	211364-53	AIM Engineering & Surveying, Inc. CHANGE ORDER NO. 01 – GS-10 Stormwater Storage and Treatment Project through 04/30/26		2,232.50		79,616.50
4/30/2026	Actual	A/P	252112-4	AIM Engineering & Surveying, Inc. Frank Mann Preserve, Phase 2 Project through 04/30/26		25,486.75		105,103.25
5/29/2026	Actual	A/P	252112-5	AIM Engineering & Surveying, Inc. Frank Mann Preserve, Phase 2 Project through 05/29/26		19,458.75		124,562.00
0306-4067-538-3130 GS-10 - Engineering Total					0.00	124,562.00	0.00	124,562.00
0306-4071-538-3130 Sink Hole-Engineering								0.00
10/31/2025	Actual	A/P	252166-1	AIM Engineering & Surveying, Inc. General Engineering through 10/31/25		3,807.50		3,807.50
11/21/2025	Actual	A/P	252166-2	AIM Engineering & Surveying, Inc. General Engineering through 11/21/25		257.00		4,064.50
2/11/2026	Actual	A/P	252166-4	AIM Engineering & Surveying, Inc. General Engineering though 02/06/26		4,661.00		8,725.50
4/30/2026	Actual	A/P	252166-7	AIM Engineering & Surveying, Inc. General Engineering through 04/30/26		650.00		9,375.50
5/29/2026	Actual	A/P	252166-8	AIM Engineering & Surveying, Inc. General Engineering through 05/29/26		1,048.00		10,423.50
0306-4071-538-3130 Sink Hole-Engineering Total					0.00	10,423.50	0.00	10,423.50

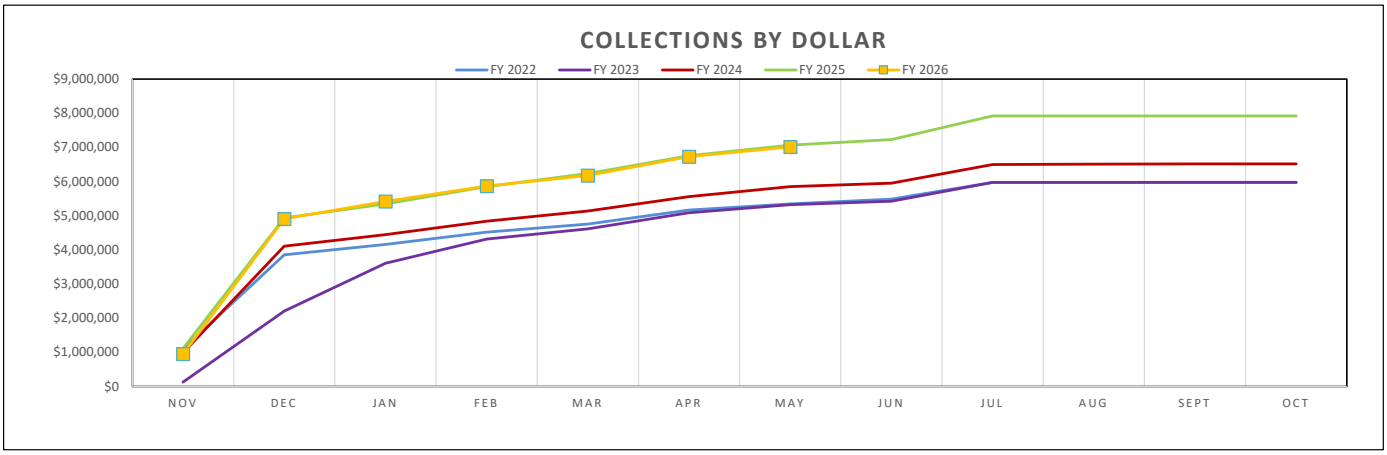
Date	Post Type	Source	Reference	Description	Units	Debit	Credit	Balance
0306-4072-538-3130 Robust Parcel- Engineering								0.00
10/31/2025	Actual	A/P	252051-7	AIM Engineering & Surveying, Inc. ROBUST PHII: This scope of work is for the design, post-design, and construction-phase services related to ROBUST Phase 2 through 10/31/25		20,847.50		20,847.50
10/31/2025	Actual	A/P	252111-3	AIM Engineering & Surveying, Inc. Change Order No. 01-Robust through 10/31/25		4,112.00		24,959.50
10/31/2025	Actual	A/P	252161-2	AIM Engineering & Surveying, Inc. Change Order No. 02-Robust through 10/31/25		4,626.00		29,585.50
11/21/2025	Actual	A/P	252161-3	AIM Engineering & Surveying, Inc. ROBUST PHII: This scope of work is for the design, post-design, and construction-phase services related to ROBUST Phase 2 through 11/21/25		3,598.00		33,183.50
11/21/2025	Actual	A/P	252111-4	AIM Engineering & Surveying, Inc. Change Order No. 01-Robust through 11/21/25		3,885.00		37,068.50
11/21/2025	Actual	A/P	252051-8	AIM Engineering & Surveying, Inc. ROBUST PHII: This scope of work is for the design, post-design, and construction-phase services related to ROBUST Phase 2 through 11/21/25		17,017.00		54,085.50
1/13/2026	Actual	A/P	252111-5	AIM Engineering & Surveying, Inc. Change Order No. 01-Robust through 01/09/26		14,007.50		68,093.00
1/13/2026	Actual	A/P	252161-4	AIM Engineering & Surveying, Inc. Change Order No. 02-Robust through 01/09/26		6,939.00		75,032.00
1/13/2026	Actual	A/P	252051-9	AIM Engineering & Surveying, Inc. ROBUST PHII: This scope of work is for the design, post-design, and construction-phase services related to ROBUST Phase 2 through 01/09/26		24,346.50		99,378.50

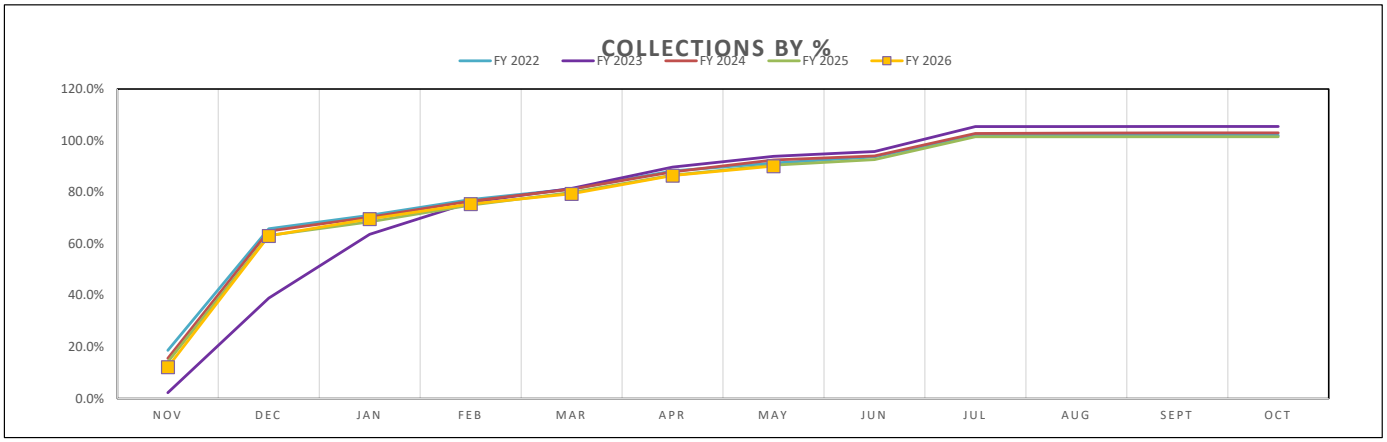
Date	Post Type	Source	Reference	Description	Units	Debit	Credit	Balance
2/11/2026	Actual	A/P	252051-10	AIM Engineering & Surveying, Inc. ROBUST PHII: This scope of work is for the design, post-design, and construction-phase services related to ROBUST Phase 2 through 02/06/26		3,780.00		103,158.50
2/11/2026	Actual	A/P	252111-6	AIM Engineering & Surveying, Inc. Change Order No. 01-Robust through 02/6/26		3,545.00		106,703.50
2/11/2026	Actual	A/P	252161-5	AIM Engineering & Surveying, Inc. Change Order No. 02-Robust through 02/06/26		2,762.75		109,466.25
2/27/2026	Actual	A/P	252161-6	AIM Engineering & Surveying, Inc. Change Order No. 02-Robust through 02/27/26		3,341.00		112,807.25
2/27/2026	Actual	A/P	252111-7	AIM Engineering & Surveying, Inc. Change Order No. 01-Robust through 02/27/26		10,737.50		123,544.75
4/08/2026	Actual	A/P	252111-8	AIM Engineering & Surveying, Inc. Change Order No. 01-Robust through 04/03/26		26,354.50		149,899.25
4/08/2026	Actual	A/P	252161-7	AIM Engineering & Surveying, Inc. Change Order No. 02-Robust through 04/03/26		5,782.50		155,681.75
4/08/2026	Actual	A/P	252051-11	AIM Engineering & Surveying, Inc. ROBUST PHII: This scope of work is for the design, post-design, and construction-phase services related to ROBUST Phase 2 through 04/03/26		7,290.00		162,971.75
4/30/2026	Actual	A/P	252111-9	AIM Engineering & Surveying, Inc. Change Order No. 01-Robust through 04/30/26		15,146.00		178,117.75
4/30/2026	Actual	A/P	252161-8	AIM Engineering & Surveying, Inc. Change Order No. 02-Robust through 04/30/26		6,485.00		184,602.75
5/29/2026	Actual	A/P	252051-12	AIM Engineering & Surveying, Inc. ROBUST PHII: This scope of work is for the design, post-design, and construction-phase services related to ROBUST Phase 2 through 05/29/26		1,575.00		186,177.75

Date	Post Type	Source	Reference	Description	Units	Debit	Credit	Balance
5/29/2026	Actual	A/P	252161-9	AIM Engineering & Surveying, Inc. Change Order No. 02-Robust through 05/29/26		3,341.00		189,518.75
5/29/2026	Actual	A/P	252111-10	AIM Engineering & Surveying, Inc. Change Order No. 01-Robust through 05/29/26		3,111.50		192,630.25
0306-4072-538-3130 Robust Parcel- Engineering Total					0.00	192,630.25	0.00	192,630.25
0306-4076-538-3130 Sunshine/Alico Widening								0.00
4/30/2026	Actual	A/P	262241-1	AIM Engineering & Surveying, Inc. Sunshine/Alico Road Connector Modeling Analysis through 04/30/26		12,461.00		12,461.00
5/29/2026	Actual	A/P	262241-2	AIM Engineering & Surveying, Inc. Sunshine/Alico Road Connector Modeling Analysis through 05/29/26		19,755.50		32,216.50
0306-4076-538-3130 Sunshine/Alico Widening Total					0.00	32,216.50	0.00	32,216.50
Report Total					**0.00**	**430,707.08**	**0.00**	**430,707.08**

LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
Lee & Hendry County Tax Collections (Cash Basis)
Current Year
Cumulative Tax Revenues: % of Budget and Gross Dollars
FY 2022 - FY 2026

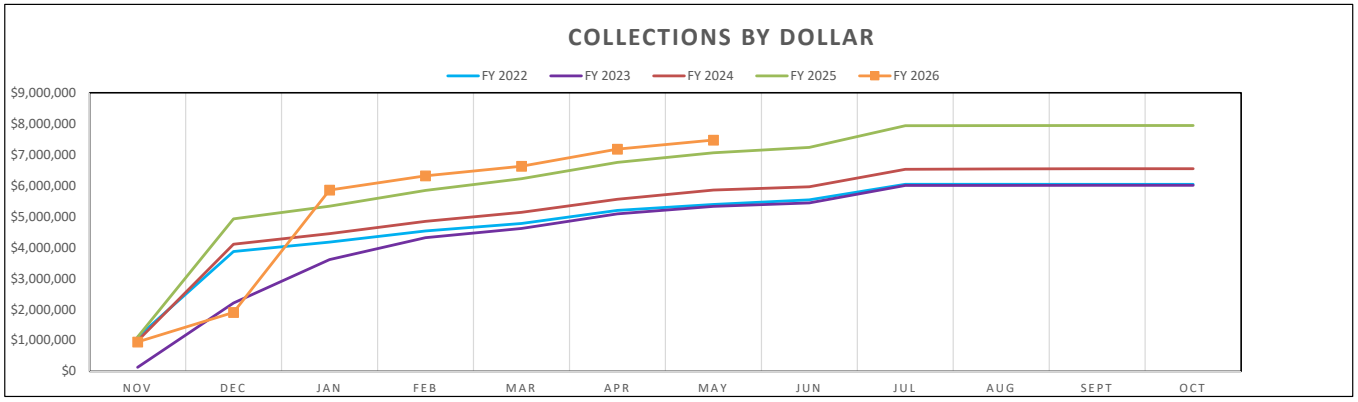
FY	Budget	Collections												Collections thru October
		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	
2022	5,854,755	1,094,645	2,759,047	305,803	359,295	237,789	408,249	181,345	139,853	487,719	43	25	-	5,973,813
		1,094,645	3,853,692	4,159,495	4,518,789	4,756,578	5,164,827	5,346,172	5,486,026	5,973,745	5,973,787	5,973,813	5,973,813	
		18.70%	65.82%	71.04%	77.18%	81.24%	88.22%	91.31%	93.70%	102.03%	102.03%	102.03%	102.03%	
2023	5,667,887	129,143	2,077,479	1,401,531	706,740	300,612	472,189	236,197	103,049	550,882	175	242	-	5,978,239
		129,143	2,206,622	3,608,153	4,314,893	4,615,505	5,087,695	5,323,891	5,426,940	5,977,822	5,977,996	5,978,239	5,978,239	
		2.28%	38.93%	63.66%	76.13%	81.43%	89.76%	93.93%	95.75%	105.47%	105.47%	105.48%	105.48%	
2024	6,327,476	987,239	3,120,390	338,282	396,529	292,731	425,667	290,528	99,949	549,841	11,710	4,297	-	6,517,164
		987,239	4,107,629	4,445,911	4,842,441	5,135,172	5,560,838	5,851,367	5,951,316	6,501,157	6,512,867	6,517,164	6,517,164	
		15.60%	64.92%	70.26%	76.53%	81.16%	87.88%	92.48%	94.06%	102.74%	102.93%	103.00%	103.00%	
2025	7,806,113	1,112,576	3,820,836	412,070	507,489	382,351	522,119	307,476	167,258	687,948	1,266	(352)	1	7,921,035
		1,112,576	4,933,412	5,345,481	5,852,970	6,235,321	6,757,440	7,064,915	7,232,173	7,920,121	7,921,387	7,921,034	7,921,035	
		14.25%	63.20%	68.48%	74.98%	79.88%	86.57%	90.50%	92.65%	101.46%	101.48%	101.47%	101.47%	
2026	7,783,619	951,417	3,957,059	511,783	449,849	306,294	553,204	285,237	-	-	-	-	-	7,014,843
		951,417	4,908,476	5,420,259	5,870,108	6,176,402	6,729,606	7,014,843	7,014,843	7,014,843	7,014,843	7,014,843	7,014,843	
		12.22%	63.06%	69.64%	75.42%	79.35%	86.46%	90.12%	90.12%	90.12%	90.12%	90.12%	90.12%	

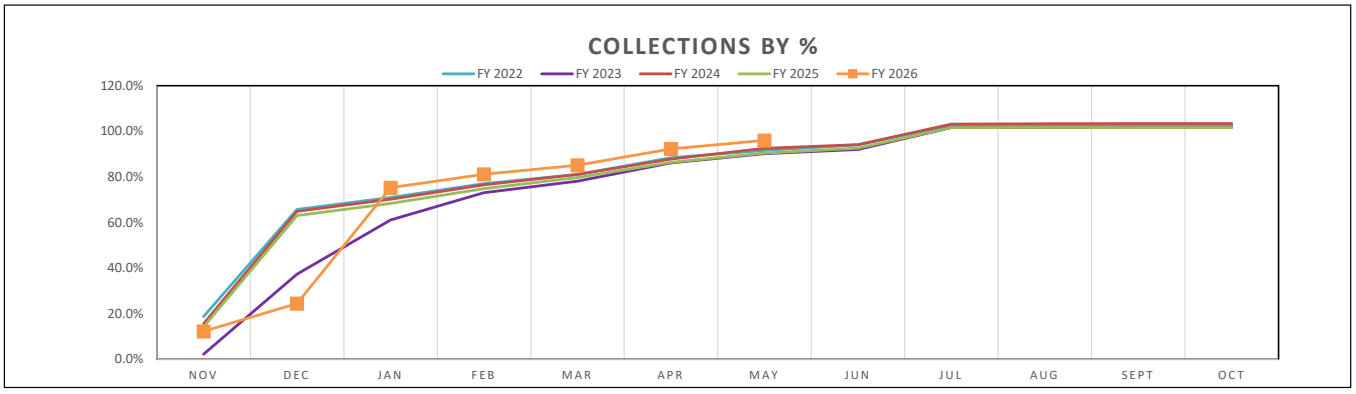




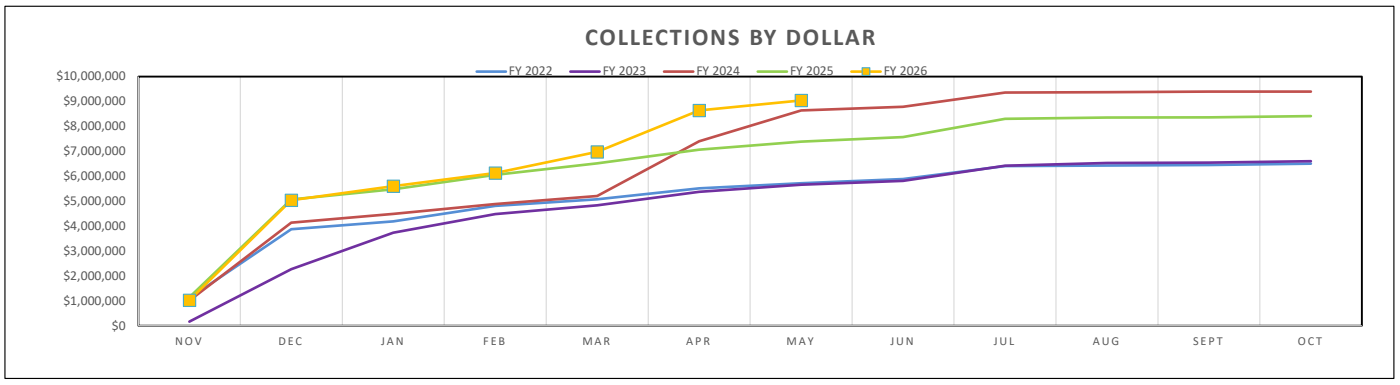
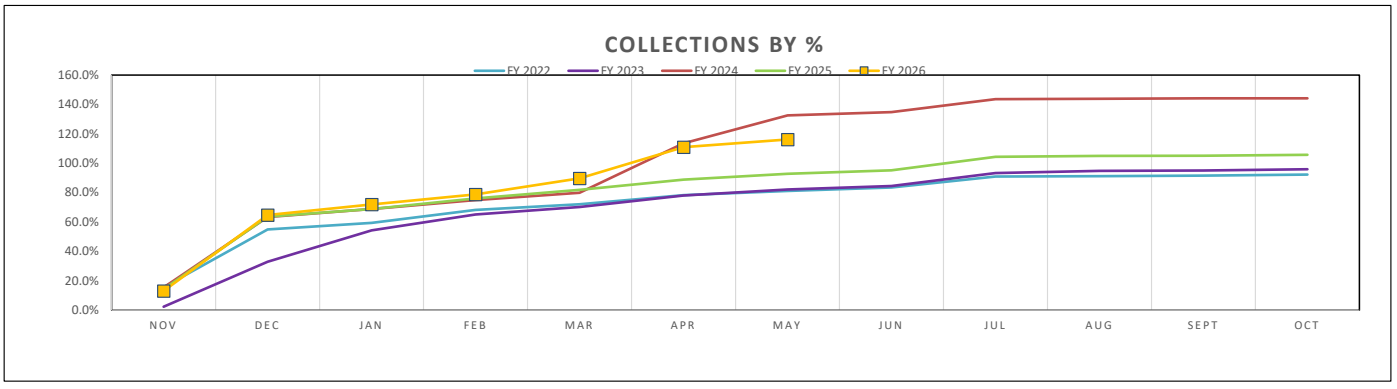
LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
Lee & Hendry County Tax Collections (Cash Basis)
Current Year, Prior Years, Interest and Penalties
Cumulative Tax Revenues: % of Budget and Gross Dollars
FY 2022 - FY 2026

		Collections												Collections
FY	Budget	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	thru October
2022	5,887,755	1,104,673	2,765,163	306,258	359,308	239,686	427,753	191,869	143,316	503,054	564	544		6,042,187
		1,104,673	3,869,836	4,176,094	4,535,402	4,775,088	5,202,841	5,394,710	5,538,025	6,041,079	6,041,643	6,042,187	6,042,187	
		18.76%	65.73%	70.93%	77.03%	81.10%	88.37%	91.63%	94.06%	102.60%	102.61%	102.62%	102.62%	
2023	5,912,503	131,731	2,077,393	1,401,576	706,743	300,374	472,453	242,861	105,645	568,046	175	3,543		6,010,541
		131,731	2,209,124	3,610,699	4,317,442	4,617,817	5,090,270	5,333,131	5,438,776	6,006,823	6,006,997	6,010,541	6,010,541	
		2.23%	37.36%	61.07%	73.02%	78.10%	86.09%	90.20%	91.99%	101.60%	101.60%	101.66%	101.66%	
2024	6,332,238	987,757	3,120,454	338,282	396,495	292,731	426,047	298,315	102,380	567,027	12,694	4,493	-	6,546,675
		987,757	4,108,211	4,446,494	4,842,989	5,135,720	5,561,767	5,860,082	5,962,462	6,529,489	6,542,182	6,546,675	6,546,675	
		15.60%	64.88%	70.22%	76.48%	81.10%	87.83%	92.54%	94.16%	103.12%	103.32%	103.39%	103.39%	
2025	7,809,313	1,112,594	3,811,371	412,137	507,415	382,684	522,119	315,593	171,259	703,033	1,342	(266)	106	7,939,388
		1,112,594	4,923,965	5,336,102	5,843,517	6,226,201	6,748,320	7,063,913	7,235,172	7,938,205	7,939,547	7,939,281	7,939,388	
		14.25%	63.05%	68.33%	74.83%	79.73%	86.41%	90.45%	92.65%	101.65%	101.67%	101.66%	101.67%	
2026	7,783,619	951,621	951,417	3,957,144	459,505	306,490	553,251	293,169	-	-	-	-	-	7,472,596
		951,621	1,903,038	5,860,182	6,319,687	6,626,177	7,179,427	7,472,596	7,472,596	7,472,596	7,472,596	7,472,596	7,472,596	
		12.23%	24.45%	75.29%	81.19%	85.13%	92.24%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	





LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT
Total Revenue Collections (Cash Basis)
Cumulative Tax Revenues: % of Budget and Gross Dollars
FY 2022 - FY 2026

FY 2022 - FY 2026

FY	Budget	Collections												Collections thru October
		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	
2022	7,048,300	1,107,277	2,766,858	315,487	623,323	264,112	437,565	207,181	162,393	525,359	22,274	22,912	50,204	6,504,945
		1,107,277	3,874,135	4,189,622	4,812,945	5,077,057	5,514,622	5,721,803	5,884,196	6,409,554	6,431,829	6,454,741	6,504,945	
		15.7%	55.0%	59.4%	68.3%	72.0%	78.2%	81.2%	83.5%	90.9%	91.3%	91.6%	92.3%	
2023	6,884,353	163,433	2,106,138	1,467,362	743,902	352,979	537,627	287,879	156,899	607,497	104,918	15,458	59,785	6,603,878
		163,433	2,269,571	3,736,933	4,480,836	4,833,814	5,371,441	5,659,320	5,816,219	6,423,717	6,528,635	6,544,093	6,603,878	
		2.4%	33.0%	54.3%	65.1%	70.2%	78.0%	82.2%	84.5%	93.3%	94.8%	95.1%	95.9%	
2024	6,517,852	1,008,710	3,124,375	352,205	401,051	322,867	2,194,816	1,235,869	144,994	574,827	14,194	23,856	-	9,397,765
		1,008,710	4,133,085	4,485,290	4,886,341	5,209,208	7,404,025	8,639,894	8,784,888	9,359,714	9,373,908	9,397,765	9,397,765	
		15.5%	63.4%	68.8%	75.0%	79.9%	113.6%	132.6%	134.8%	143.6%	143.8%	144.2%	144.2%	
2025	7,956,913	1,140,414	3,924,840	412,137	578,421	460,078	550,767	324,306	180,832	731,561	54,008	3,394	53,247	8,414,003
		1,140,414	5,065,254	5,477,391	6,055,812	6,515,890	7,066,656	7,390,962	7,571,794	8,303,355	8,357,363	8,360,757	8,414,003	
		14.3%	63.7%	68.8%	76.1%	81.9%	88.8%	92.9%	95.2%	104.4%	105.0%	105.1%	105.7%	
2026	7,783,619	1,021,870	4,017,071	560,507	532,871	848,056	1,660,466	401,744	-	-	-	-	-	9,042,586
		1,021,870	5,038,940	5,599,448	6,132,319	6,980,376	8,640,842	9,042,586	9,042,586	9,042,586	9,042,586	9,042,586	9,042,586	
		13.1%	64.7%	71.9%	78.8%	89.7%	111.0%	116.2%	116.2%	116.2%	116.2%	116.2%	116.2%