File #: 26-0779, **Version:** 1

Interoffice Memorandum

DATE: June 11, 2026

TO: Mayor Jerry L. Demings and County Commissioners

THROUGH: N/A

FROM: Joseph C. Kunkel, P.E., Director, Public Works Department

CONTACT: Mike Drozeck, P.E., Manager

PHONE: (407) 836-7945

DIVISION: Stormwater Management Division

ACTION REQUESTED:
Ratification of Change Order Number 2, Purchase Order M120134-2, Emergency Mohrs Cove Lane Pipe Retrofit with Murphy Pipeline Contractors, LLC in the amount of $536,141.18. District 1. (Stormwater Management Division)

PROJECT: N/A

PURPOSE:
The original emergency purchase order authorized slip lining of an approximately 400-foot segment of existing 48-inch corrugated metal pipe (CMP) along the east side of 9806 Mohrs Cove Lane, Windermere, FL 34786. The pipe, which serves as the outfall to Lake Down for MSBU Ponds 6289 and 6266, is severely deteriorated and shows signs of partial collapse between Manholes A and B. Because the system is located between residential properties, repairs are critical to prevent upstream flooding and protect nearby homes and infrastructure. During construction, two unforeseen site conditions were encountered that exceeded the original project scope and necessitated Change Order No. 2.

First, a diver inspection identified an additional approximately 85-foot downstream pipe segment between Manhole B and Lake Down with significant silt accumulation and structural deterioration requiring cleaning and slip lining rehabilitation to restore structural stability and conveyance (Task 1 in the attachment). Several open-cut replacement alternatives were evaluated; however, estimated construction costs ranged from approximately $573,318 to $718,318, excluding project expenses associated with cofferdams, dewatering, marine equipment, environmental controls, maintenance of traffic, utility coordination, permitting, restoration, extended construction duration, and contractor overhead. In comparison, the slip lining rehabilitation approach is estimated at approximately $388,622.42 and can be completed within three to four weeks versus approximately three months for open-cut replacement, excluding an estimated additional one-year duration for design, bidding, and environmental permitting. Staff determined that slip lining provides the most cost-effective, constructible, and least disruptive solution.

Second, approximately 130 feet of the previously repaired Manhole A-to-B pipe segment was found to contain high-strength cement instead of excavatable grout, requiring additional removal effort and a pseudo pipe burst/slip line operation to restore the required pipe diameter (Task 2 in the attachment). County staff, with assistance from the CEI consultant, reviewed the contractor's proposed construction approach and detailed cost estimate of approximately $147,518.76 and determined the proposed work and associated costs were necessary and reasonable to complete the rehabilitation project. The combined cost for Task 1 and Task 2 is $536,141.18.

Staff recommend that the Board ratify Change Order No. 2 for Purchase Order M120134-2, Emergency Mohrs Cove Lane Pipe Retrofit with Murphy Pipeline Contractors, LLC, in the amount of $536,141.18, as additional work and associated costs were necessary to address unforeseen field conditions and complete the emergency rehabilitation project.

BUDGET: N/A

Board of County Commissioners

Change Order/ Amendment

PO Number: **M00000120134- 2**

Orange County, Florida
Telephone (407) 836-5635

APPROVED BY ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS
BCC Mtg. Date: June 30, 2026

STANDARD

ABOVE PURCHASE ORDER NUMBER MUST APPEAR ON ALL INVOICES, BILLS OF LADING, PACKAGES AND CORRESPONDENCE.

Invoice To: Fiscal & Operational Support Division
4200 S John Young Parkway
Phone 407-836-7900
Orlando, FL 32839
Public Works Department

Prcu.Id: 2592032
Date: 05/20/2026 Page: 1 of 2

Ship To: Stormwater Management
Conf: NO
4200 S. John Young Prkwy
Phone (407) 836-7919
Orlando, FL 32839-9205
Laurie Ritz
407-836-7816

Vendor Number: 520340
Contact: RICHARD CROW
Vendor: MURPHY PIPELINE CONTRACTORS LLC
STE 150
510 SHOTGUN RD
SUNRISE, FL 33326-1984
9542547898

Delivery Date:
Reference: EMERGENCY
Authorized by: Rolando Melo
FOB:
TOTAL: $1,429,541.63

Award Date: Award Amount:

LINE NO	QUANTITY UNIT ACCOUNTING LINE	DESCRIPTION	ACCOUNTING LINE AMOUNT	UNIT COST	TOTAL COST
1	1429541.6300(EA	Mohrs Cove Lane Pipe Retrofit Emergency This purchase order for the services and/or supplies defined within this PO. The Contractor shall provide insurance and bonds for the limits described below within ten days of receipt of this purchase order as follows: - Commercial General Liability with a limit not less than$1,000,000- - Workers Compensation- maintain coverage in accordance with statutes and not less than a $500,000 limit - Automobile Liability- with a limit not less than $1,000,000 - Pollution Liability with a limit of not less than one million ($1,000,000) per occurrence per project basis - Orange County, FL to be named as additionally insured in respects to the CGL and Waiver of Subrogation Performance and Payment Bonds to be 100% of purchase order/ contract value. Board Approved Date: 1/27/26 Board Approved Amount: $813,705.00 3/23/26 CO# 1 Issued for additional services $79,695.45, Authorized by Rolando Melo 5/20/26 CO#2 issued for additional services in the amount of $536,141.18. BCC Approved Date: Authorized by Corie Cummings		1.000000	1,429,541.63
	RQSOC NO: Q00000149344				
	1142 072 3087 6330		1,429,541.63		

THIS ORDER IS SUBJECT TO THE TERMS AND CONDITIONS ATTACHED HERETO

Corie Cummings

VENDOR COPY AUTHORIZED SIGNATURE Rev.4/2022

Suppliers are cautioned to be vigilant on receipt of orders and/or order inquiries on behalf of Orange County, Florida. If you are the recipient of an unsolicited order, or suspect fraudulent activity, email Procurement@OCFL.net or phone (407) 836-5635 to verify the authenticity of the request.

Board of County Commissioners

Change Order/ Amendment

PO Number: **M00000120134- 2**

Orange County, Florida
Telephone (407) 836-5635

STANDARD

ABOVE PURCHASE ORDER NUMBER MUST APPEAR ON ALL INVOICES, BILLS OF LADING, PACKAGES AND CORRESPONDENCE.

Invoice To: Fiscal & Operational Support Division
4200 S John Young Parkway
Phone 407-836-7900
Orlando, FL 32839
Public Works Department

Prcu.Id: 2592032
Date: 05/20/2026

Ship To: Stormwater Management
Conf: NO
4200 S. John Young Prkwy
Phone (407) 836-7919
Orlando, FL 32839-9205
Laurie Ritz
407-836-7816

Vendor Number: 520340
Contact: RICHARD CROW
Vendor: MURPHY PIPELINE CONTRACTORS LLC
STE 150
510 SHOTGUN RD
SUNRISE, FL 33326-1984
9542547898

Delivery Date:
Reference: EMERGENCY
Authorized by: Rolando Melo
FOB:
TOTAL: $1,429,541.63

Award Date: Award Amount:

LINE NO	QUANTITY UNIT ACCOUNTING LINE	DESCRIPTION	ACCOUNTING LINE AMOUNT	UNIT COST	TOTAL COST
				TOTAL:	*$1,429,541.63*

SPECIAL INSTRUCTIONS

THIS ORDER IS SUBJECT TO THE TERMS AND CONDITIONS ATTACHED HERETO

Corie Cummings

VENDOR COPY AUTHORIZED SIGNATURE Rev.4/2022

Suppliers are cautioned to be vigilant on receipt of orders and/or order inquiries on behalf of Orange County, Florida. If you are the recipient of an unsolicited order, or suspect fraudulent activity, email Procurement@OCFL.net or phone (407) 836-5635 to verify the authenticity of the request.

Murphy Piplines Contractors
510 Shotgun Road, Suite 150,
Sunrise, Florida 33326

April 10, 2026

Grace L. Chua Corn, EI, CFM, GISP
Assistant Project Manager
Public Works Department, Stormwater Management Division
Orange County
4200 South John Young Parkway
Phone: 407.836.7965

RE: MOHRS COVE LANE PIPE RETROFIT PHASE II

- *Purchase Order No: M00000120134*
- *Change Order # 2*

Mrs. Chua Corn,

Murphy Pipeline Contractors (MPC) is pleased to submit the following sliplining proposal to Orange County (County) for review.

MPC is one of the most experienced trenchless contractors in the U.S., with both national and local expertise. Our extensive experience provides a solid foundation for our team to consistently deliver exceptional results and allows us to stand out as a premier contractor in the industry. We are confident that our Team will not only meet, but surpass, expectations for this infrastructure rehabilitation project.

TASK 1 – Manhole B – Lake Down Outfall Segment Pipe Retrofit

The existing 48-inch CMP storm pipe (±485 LF) along the east side of 9806 Mohrs Cove Ln, Windermere, FL 34786 is in need of lining due to existing deficiencies with the pipe (rusted/leaks). The entire pipe run (located in a drainage easement) connects two existing stormwater structures running in the North-South direction (Manhole A (North) and Manhole B (South)), as depicted in Exhibit A. MPC has previously Sliplined Manhole A-B segment (±400 LF) during Phase I.

The County has requested MPC rehabilitate the existing CMP (±85 LF) from Manhole B to Lake Down (Manhole B-Lake Down Outfall segment) at the southeast corner of the residential property, to ensure structural stability and address the existing siltation and clogging concerns.

Murphy Piplines Contractors
510 Shotgun Road, Suite 150,
Sunrise, Florida 33326

GENERAL PROJECT APPROACH

MPC proposes to rehabilitate the existing pipe in Phase II using 42-inch HDPE DR 32.5 IPS, as described below and as shown in Exhibit B - Schematic Design. The anticipated execution of the project would be as follows:

1. Jet the existing 48-inch CMP from Manhole B to Lake Down.
2. MPC divers will install plug at lake outfall.
3. Clear and grub area surrounding lake outfall from silt/mud and vegetation.
4. Fuse ±85 LF of 42-inch HDPE DR 32.5 IPS
5. Install HDPE through existing 48-inch CMP via slipline installation technique.
6. Fill the annular space between the host pipe and the new pipe with flowable grout.
7. Reconnect new pipe invert to Manhole B. MPC will mud up inverts and grout as required.
8. Remove plug at the lake outfall.
9. Backfill, grade, and restore site to original conditions.
10. Perform post-construction CCTV and prepare as-builts.

MPC BUDGETARY CONSIDERATIONS

- MPC will furnish all labor, equipment, and tools to perform the post-construction CCTV, erosion control measures, sliplining operation, connection of the HDPE pipe to Manhole B, as-builts (redlines), and associated site restoration.

MPC Assumptions:

- No new drainage structures are included as part of this estimate
- Bypass is not required for the project.
- Manhole B is in good condition and does not require replacement.

SCHEDULE AND FEES

Sliplining Proposed Schedule

- 1 Week for Pipe Procurement (dependent on pipe availability)
- 1 Week for Sliplining
- 1 Week for Grouting and Connection to Manhole B
- 1 Week for Site Restoration, Post-Construction CCTV, and As-Builts

TOTAL SCHEDULE: 3-4 Weeks (dependent on pipe availability)

Fee

The total estimated lump sum contract amount for the above scope of work is **$388,622.42**.

TABLE A				
Mohrs Cove Ln - Phase II - Proposal				
TASK 1 - Construction Cost Breakdown				
Project: Mohrs Cove Lane Pipe Retrofit Emergency Project				
Contractor: Murphy Pipelines Contractors, LLC				
Purchase Order No: M00000120134				
Description of Work	**Unit**	**Unit Price**	**Qty**	**Total**
General Conditions	LS	$ 37,000.00	1	$ 37,000.00
Erosion Control	LS	$ 4,800.00	1	$ 4,800.00
Cleaning and Prep of Existing 48in CMP	LS	$ 27,463.00	1	$ 27,463.00
Sliplining of ± 85 LF of 42in HDPE from MHB to Outfall	LS	$ 176,584.00	1	$ 176,584.00
Material and Fusing	LS	$ 59,875.42	1	$ 59,875.42
Sealing of inverts	LS	$ 23,500.00	1	$ 23,500.00
Clearing of Lake Vegetaion	LS	$ 17,500.00	1	$ 17,500.00
Grouting of Annular Space	LS	$ 33,000.00	1	$ 33,000.00
Site Restoration	LS	$ 8,900.00	1	$ 8,900.00
			Total	**$ 388,622.42**

EXHIBIT A
PROJECT LOCATION MAP

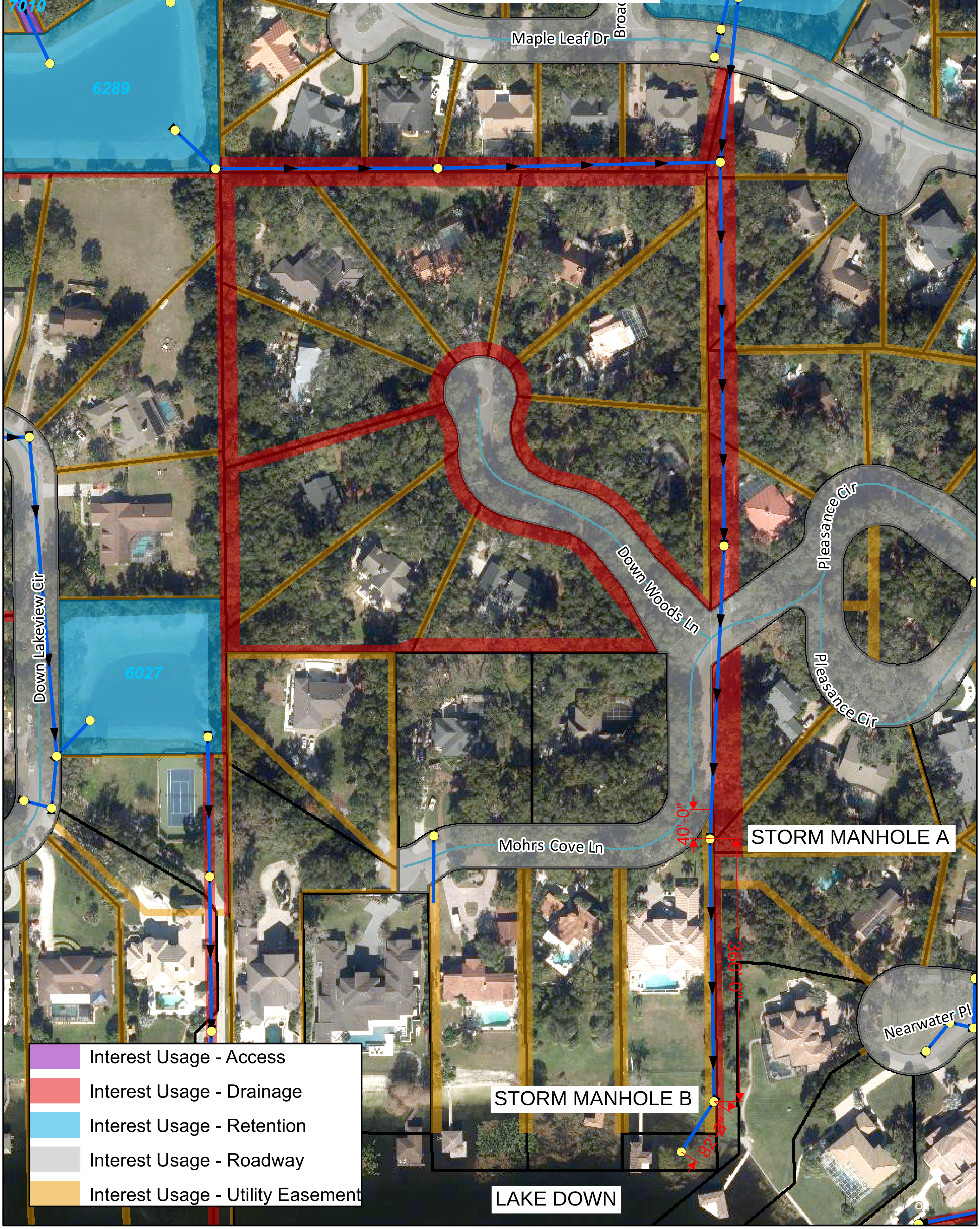


Exhibit B - Schematic Design
Mohrs Cove
Plan View
NTS

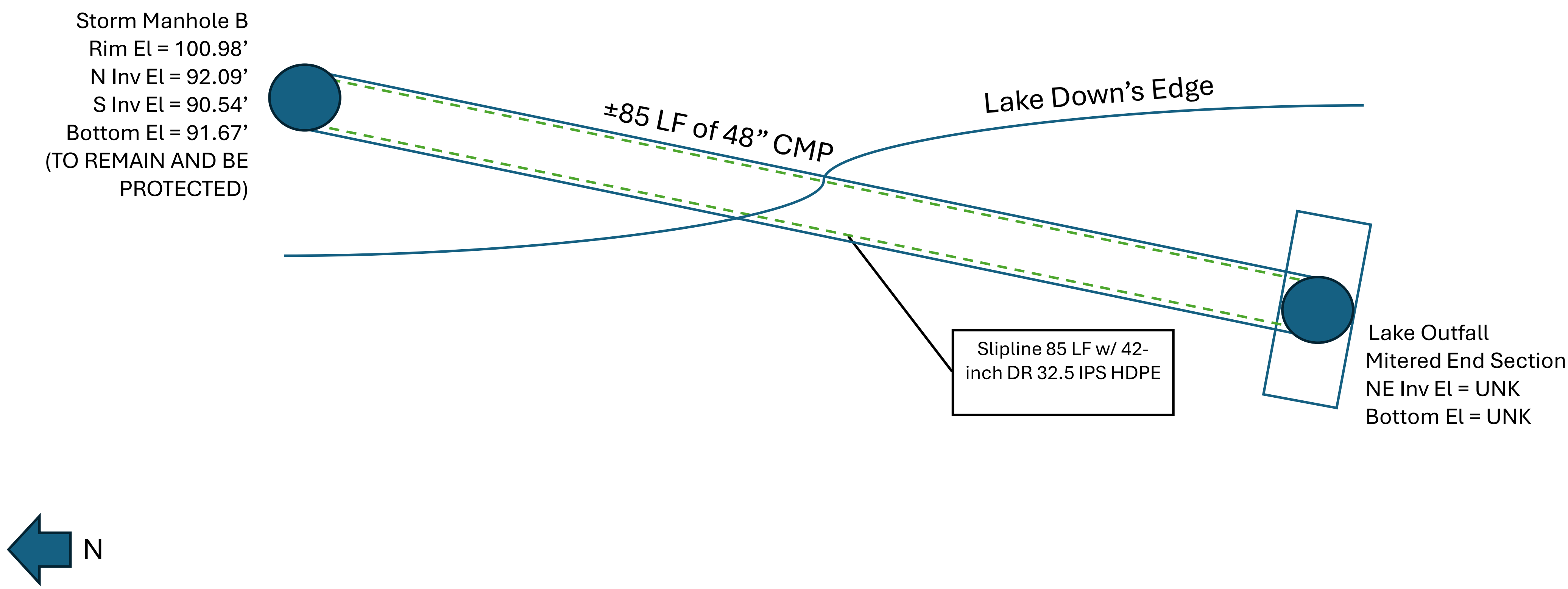
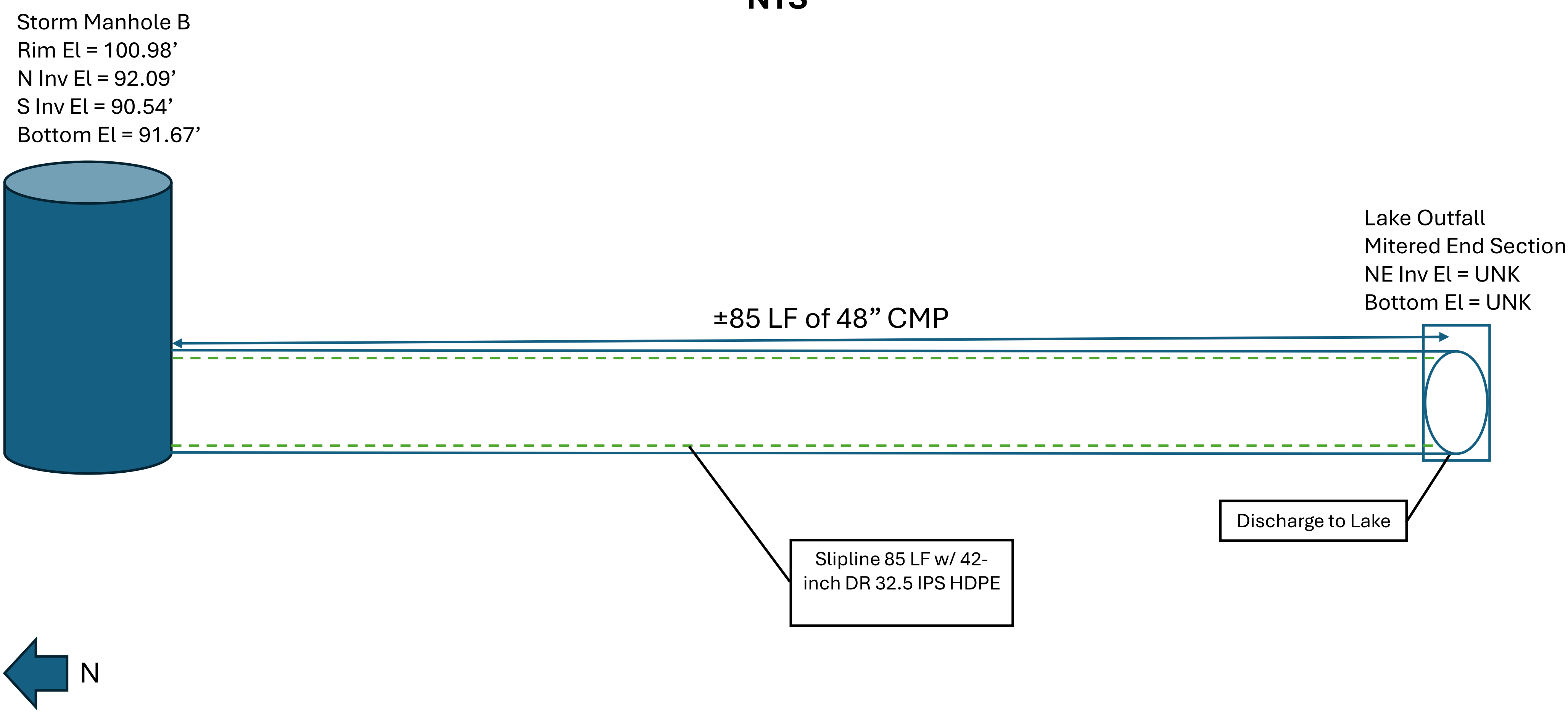


Exhibit B - Schematic Design
Mohrs Cove
Profile View
NTS



Corporate Headquarters
OFFICE: 904.646-7400
ADDRESS: 12290 US 19 N, Clearwater, FL 33764
ADDRESS: 510 Shotgun Rd., Unit 150, Sunrise, FL 33326
WEB SITE: murphypipelines.com

TASK 2 – Removal of Cement Grout & Reduction of OD Requiring Pseudo Burst Operation

Description of Adverse Site Conditions:

A) Grout installed in annular space of existing 130ft repair appears to be high strength cement, not typical grout. – which should be excavatable. Use of a chipping hammer is required to break apart concrete and remove pieces with buckets. This has resulted in additional time anticipated to complete the small diameter pipe removal.

Schedule of Events:

2.24.25 Large concrete block was found (and removed) outside the existing 48in Storm Line.
- possibly used to seal the point repair.

2.25.26 Concrete/Brick wall encountered after entering 48in CMP
- appears this was the "mud plug" installed with port to grout annular space after repair
- this wall should only be 1-2 ft thick with grout behind
- after continuous breaking away of concrete, we realized the complete annular space of the repair was filled with Cement, not grout.

MPC anticipated the original time to remove existing pipe and grout would have taken 2-5 days.

Total number of days to remove Cement 28 Days

MPC noted the total delay due to Cement Grout 21 Days

Mitigation Strategy:

Chipping hammer used to break away Cement in pieces. Removal of debris is performed by hand and with buckets through an access point made in the existing 48in CMP. The small diameter pipe (repair) is cut away in 4-5 ft sections and removed.

B) After removal of Cement Pipe Repair - it was realized, the Vertical OD of the Pipe reduced down to 33in. This reduction in OD will not allow for Sliplining of the 36in Pipe from MHA to MHB as per plan, and will require MPC to perform a pseudo–Pipe Burst/Slipline operation.

Mitigation Strategy:

MPC will use a custom made 38in Expander, specifically made for this project, to expand (Burst through) the reduced diameter C.M. Pipe section. The use of the Expander will also allow for the installation of 36in HDPE without damaging the pipe against the existing CMP at these reduced areas during installation.

A PURIS COMPANY

Corporate Headquarters
OFFICE: 904.646-7400
ADDRESS: 12290 US 19 N, Clearwater, FL 33764
ADDRESS: 510 Shotgun Rd., Unit 150, Sunrise, FL 33326
WEB SITE: murphypipelines.com

TABLE B

Task 2 - Cost & Time Impact:

Task	Description	Unit	Est. Qty	Unit Price	Total Price
1	Labor	LS	1	$92,025.36	$92,025.36
2	Rentals	LS	1	$29,924.88	$29,924.88
3	Material	LS	1	$0.00	$0.00
4	Subcontractor	LS	1	$6,292.80	$6,292.80
5	General Condition	LS	1	$16,383.20	$16,383.20
6	Additional Bond Premium 2%	LS	1	$2,892.52	$2,892.52
				Total Cost	**$147,518.76**

- Additional 30 Days are requested for this delay

Should you have any questions, please do not hesitate to contact me on my cell phone at +1 (954) 954-650-5093 or email Angelo.Furno@MurphyPipelines.com

Respectfully submitted,

Angelo Furno
Sr. Project Manager
Murphy Pipeline Contractor

Corporate Headquarters
OFFICE: 904.646-7400
ADDRESS: 12290 US 19 N, Clearwater, FL 33764
ADDRESS: 510 Shotgun Rd., Unit 150, Sunrise, FL 33326
WEB SITE: murphypipelines.com

Corporate Headquarters
OFFICE: 904.646-7400
ADDRESS: 12290 US 19 N, Clearwater, FL 33764
ADDRESS: 510 Shotgun Rd., Unit 150, Sunrise, FL 33326
WEB SITE: murphypipelines.com

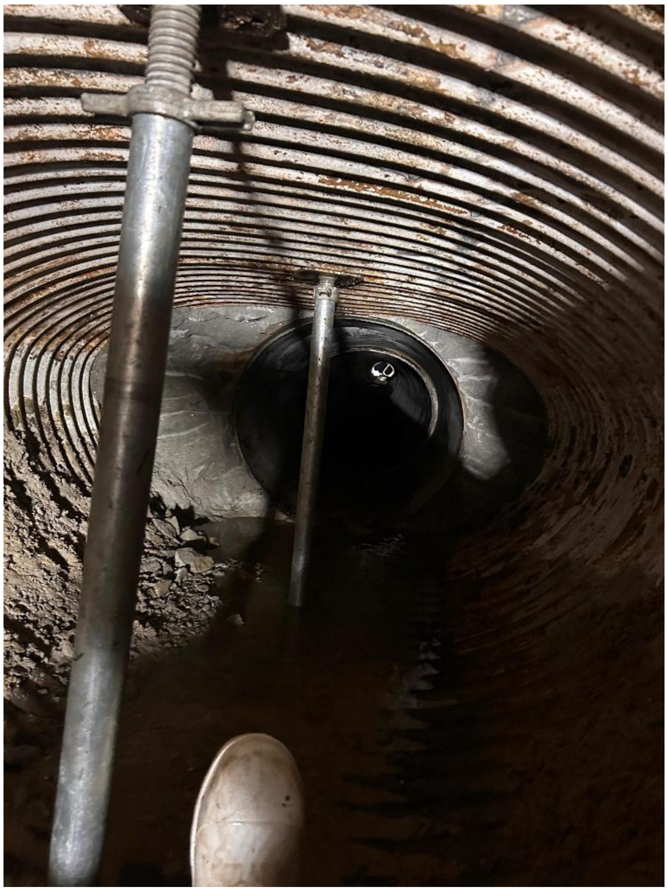


TABLE C

TASK # 02	Cost Impact / Delay - Direct Cost Breakdown

Cement in Place of Grout for Annular Space

ITEM #	COST BREAKDOWN								
A.- Labor Requirements									
Total Additional Time Required to Remove Cement **Description / Position**	**Qty**		**Total Days**	**Total Hours**	**Regular Rate/Hr**	**Regular (Hrs) 80%**	**Overtime Rate/Hr**	**Overtime (Hrs) 20%**	**Amount**
Project Coordinator	1		11	10.00	$ 63.58	8.00	$ 95.37	2.00	$ 7,693.18
Construction Manager	1		11	10.00	$ 72.12	8.00	$ 108.18	2.00	$ 8,726.52
Foreman	1		21	10.00	$ 43.00	8.00	$ 64.50	2.00	$ 9,933.00
Operator	1		14	10.00	$ 36.00	8.00	$ 54.00	2.00	$ 5,544.00
Operator	1		14	10.00	$ 33.00	8.00	$ 49.50	2.00	$ 5,082.00
Skilled	1		14	10.00	$ 30.00	8.00	$ 45.00	2.00	$ 4,620.00
Skilled	1		14	10.00	$ 28.00	8.00	$ 42.00	2.00	$ 4,312.00
Skilled	0		0	10.00	$ 26.00	8.00	$ 39.00	2.00	$ -
Skilled	1		21	10.00	$ 25.00	8.00	$ 37.50	2.00	$ 5,775.00
Laborer	1		21	10.00	$ 24.00	8.00	$ 36.00	2.00	$ 5,544.00
Laborer	0		21	10.00	$ 22.00	8.00	$ 33.00	2.00	$ -
Crew	*9*							*Sub-Total*	**$ 57,229.70**
								34% Labor Burden (Included) :	**$ 19,458.10**
								Labor Including Burden:	**$ 76,687.80**
								Mark Up 20%	**$ 15,337.56**
								Total Labor	**$ 92,025.36**

B.-Equipment Requirements									
On site Equipment Costs for 2/25/26 to 4/7/26 **Description**	**Qty**	**Monthly Rate**	**Weekly Rate**	**Daily Rate**	**Hourly Rate**	**Operating Cost/Hr**	**Operating Hours**	**Opp Cost Duration**	**Amount**
Cat Excavator	0	$ 13,440.00	$ 3,765.00	$ 940.00	$ 140.00	$ 39.11		0.00	$ -
Yanmar 100 Mini Excavator	1	$ 8,860.00	$ 2,480.00	$ 620.00	$ 93.00	$ 23.76	18.00	0.00	$ 9,287.68
Loader	0	$ 5,542.00	$ 2,123.00	$ 733.00		$ 26.49		0.00	$ -
Winch	1	$ 3,300.00	$ 1,575.00	$ 333.00	$ -	$ -	0.00	0.00	$ 3,150.00
Skid Steer	1	$ 8,645.00	$ 2,420.00	$ 605.00	$ 91.00	$ 36.92	27.00	0.00	$ 5,836.84
Slide Rail / Shoring System	0	$ 14,862.00	$ 5,794.00	$ 2,897.00				0.00	$ -
Dewatering Equipment / Pumps	0	$ 10,130.27	$ 3,736.39	$ 1,600.77				0.00	$ -
ByPass Plugs	1	$ 1,100.00	$ 390.00	$ 165.00				0.00	$ 780.00
HD Mats	2	$ 88.00	$ 34.00	$ 36.00				0.00	$ 136.00
Dump Truck	1	$ 4,795.44	$ 1,905.00	$ 645.00				0.00	$ 3,810.00
Chipping Hammer	1	$ -	$ 357.22	$ -				0.00	$ 1,428.88
Toilets	2	$ 460.00	$ 127.00	$ 18.00				0.00	$ 508.00
								Sub-Total	**$ 24,937.40**
								Mark Up 20%	**$ 4,987.48**
								Total Equipment	**$ 29,924.88**

C.-Material									
Description	**Qty**	**Invoice / Quote #**	**Volume CY**		**Unit**	**Rate (w/tax)**			**Amount**
									$ -
									$ -
								Sub Total	**$ -**
								Mark Up 20%	**$ -**
								Total Materials	**$ -**

D.-Subcontractor Specialties									
Sub-Subcontractor	**Total Qty**				**Unit**	**Rate**			**Amount**
Vactor Truck Line Cleaning (additional Mob required	1				EA	$ 5,244.00			$ 5,244.00
									$ -
								Sub Total	**$ 5,244.00**
								Mark Up (rev to 20%)	**$ 1,048.80**
								Total Subcontractor	**$ 6,292.80**

E.- Misc. Requirements									
Description	**Qty**			**LS**	**Unit**	**Rate**	**Markup**	**Total**	**Amount**
General Conditions	1			$ 16,383.20		-		16,383.20	$ 16,383.20
									$ -
General Conditions to include:									**$ 16,383.20**
- Overhead / PM Costs / Tool Costs (Blade Replacements) /								*Total Misc. Requirements*	**$ 16,383.20**
- MOT / Hotels Costs for Crew / Delivery & Use of T247E Burst Rig									

Total :	**$ 144,626.24**
Additional Bond Premium 2%	$ 2,892.52
GRAND TOTAL :	**$ 147,518.76**

Corporate Headquarters
OFFICE: 904.646-7400
ADDRESS: 12290 US 19 N, Clearwater, FL 33764
ADDRESS: 510 Shotgun Rd., Unit 150, Sunrise, FL 33326
WEB SITE: murphypipelines.com

TABLE D

Combined Costs:

Task	Description	Total Price
TASK # 1	Manhole B - Lake Down Outfall Segment Pipe Retrofit	$388,622.42
TASK # 2	Removal of Cement Grout & Burst Due to Reduced OD	$ 147,518.76
	Total Cost	**$ 536,141.18**

Should you have any questions, please do not hesitate to contact me on my cell phone at +1 (954) 954-650-5093 or email Angelo.Furno@MurphyPipelines.com

Respectfully submitted,

Angelo Furno
Sr. Project Manager
Murphy Pipeline Contractor