



Interoffice Memorandum

December 18, 2023

TO: Mayor Jerry L. Demings
-AND-
County Commissioners

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

CONTACT PERSON: **Mike Drozeck, P.E., Manager**
Stormwater Management Division
PHONE NUMBER: **(407) 836-7945**

SUBJ: **Ratification of Change Order Number 2 for Purchase Order M111484,
Emergency Long Lake Pump Station Force Main Rehabilitation**

The ratification of emergency purchase order M111484 was approved by the Board on July 11, 2023, for the emergency repair of the 48-inch diameter force main for Long Lake pump station. The force main is currently leaking and compromises the operation of the pump station and the structural integrity of Beggs Road. After the commencement of the emergency repair and during the excavation, the contractor, Murphy Pipeline Contractors LLC (MPC), discovered an unforeseen condition inside the force main that prevented the installation of the new liner as originally bid by the contractor.

The Stormwater Management Division negotiated with MPC and approved the additional work required to address the unforeseen condition. The Stormwater Management Division received the approval of the change order in the amount of \$225,225 before submitting it to the Board so that MPC could immediately order materials and begin the additional work. This avoided a construction delay, associated costs and allowed the critical pump station to return to operation as soon as possible.

Action Requested: Ratification of Change Order Number 2, Purchase Order M111484, Emergency Long Lake Pump Station Force Main Rehabilitation, with Murphy Pipeline Contractors LLC in the amount of \$225,225, for a revised total amount of \$1,320,368.85. District 2.

JCK/MD/dn

Attachments

Board of County Commissioners

Change Order/ Amendment

PO Number: **M00000111484-2**

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: 2380802
Date: 12/01/2023 Page: 1 of 1

Ship To: Stormwater Management
Conf: NO

4200 S. John Young Prkwy
Phone (407) 836-7919
Orlando, FL 32839-9205
Ruby Odonkor
407-836-7710

Vendor Number: 520340
Contact: RICHARD CROW
Vendor: MURPHY PIPELINE CONTRACTORS LLC
12235 NEW BERLIN RD

JACKSONVILLE, FL 32226-2257
9542547898

Delivery Date: 09/29/2023
Reference: EMERGENCY
Authorized by: Rolando Melo
FOB: FOB Dest, Freight Prepaid
TOTAL: \$1,320,368.85

Award Date:

Award Amount:

LINE NO	QUANTITY UNIT ACCOUNTING LINE	DESCRIPTION	ACCOUNTING LINE AMOUNT	UNIT COST	TOTAL COST
1	1320368.85000 EA	Emergency Purchase Order Request Long Lake Pump Station Force Main Rehabilitation, proposal dated May 24, 2023 Lump Sum: \$1,095,143.85 Requested by: Grace L. Chua Corn at (407) 836-7965 Stormwater Management Division. Board Approved Date: 7/11/23 Board Approved Amount: \$1,095,143.85. 10/27/23 CO# 1 Issued for a scope revision the total of the PO remains the same. Authorized by Rolando Melo 12/1/23 CO# 2 Issued for additional services \$225,225.00. Authorized by Rolando Melo RQSOC NO: Q00000138077 1023 072 2753 6330		1.000000	1,320,368.85
					TOTAL: \$1,320,368.85

SPECIAL INSTRUCTIONS

THIS ORDER IS SUBJECT TO THE TERMS AND
CONDITIONS ATTACHED HERETO

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.



Corporate Headquarters
OFFICE: 904.764.6887 FAX: 904.379.6193
ADDRESS: 12235 New Berlin Rd., Jacksonville FL 32226
Feasibility Support Office
OFFICE: 414.321.2247 FAX: 414.321.2297
ADDRESS: 1973 S 91st Street Milwaukee WI 53227
murphypipelines.com. Compression Fit

November 17, 2023

Grace L. Chua Corn, EI, CFM, GISP
Stormwater Management Division
Orange County Public Works
4200 South John Young Parkway
Orlando, Florida 32839
Office: 407.836.7965
Cell: 321.230.8341

Reference: Long Lake Pump Station Force Main Rehabilitation
PO Number: M00000111484
MPC Project No.: 23FL-029

Subject: Request for Change Order #2 – Added Work / Encountered Condition

Dear Ms. Chua Corn:

Murphy Pipeline Contractors, LLC (MPC) is pleased to provide this Request for Change Order (RCO) for requested additional work outside of the current agreement and to address the change in condition within the host pipe at the above referenced project. The added work, requested by Orange County, will enhance the project both operationally (including maintenance) and will prepare for subsequent rehabilitation of the remaining storm water force main.

Item 01 Requested Additional Work:

The requested additional work includes the following:

- Installation of a new Air Release Valve (ARV) w/ Structure on high point of existing main to be lined.
- Removal of additional existing pipe (approx. 50 LF), and existing access structure (concrete filled) at east end.
- Extension of existing storm water force main pipe replacement (approx. 50 LF; to extend east of existing access structure, east end) and additional roadway restoration.
- Installation of a new Access Structure (with 48"/42" x 24" saddle) at east end connection.
- Perform post CCTV of installed liner (west access structure to east access structure).
- Add VMS boards and additional signage (detour) as requested by County for duration of work.

Note: The manufacture and delivery of the ARV and access port structures will require demobilization and remobilization due to an anticipated lead time of several weeks. Once the Purchase Order / Change Order is

Long Lake Pump Station Force Main Rehabilitation
Request for Change Order #2 – Added Work

confirmed with approval of the authorization(s) of this request, MPC will adjust the project schedule and inform the project team of the remobilization date. To avoid additional costs of restoring and re-excavating the eastern access pit, MPC proposes to leave the MOT / detour in place during this temporary work suspension.

Item 02 Change in Conditions:

After commencement of the work and during the excavation of the receiving pit, it was revealed that the existing force main (48" reinforced concrete pipe (RCP)) was lined with a substantial CIPP liner. The thicker liner was not anticipated during the proposal preparation. This thicker CIPP liner required additional investigation of the interior of the pipe. It is noted during that during the investigation, that the CIPP liner significantly reduced the pipe inside diameter (from 48" to approx. 45.5").

This significant change in inside diameter required modification to the reducing dye (HDPE compression apparatus) in an attempt to utilize the supplied 48" HDPE. Additionally, the CIPP liner had 'fins' (see attached photos) that ran down the main like veins, extending in some sections two (2) or more inches into the pipe interior. These fins (potentially brittle fiberglass projections) were required to be ground down / out so as to not to slice the HDPE pipe while it traverses through the main during compression fit installation. MPC conducted manned entry to grind down and remove the fiber glass fins.

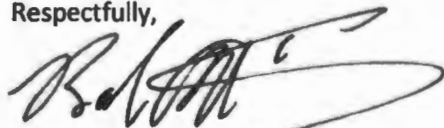
MPC attempted the installation of the 48" HDPE liner by compression fitting; however, the required reduction to complete the installation was thwarted due to the unanticipated smaller inside diameter of the host pipe.

MPC has since reviewed these changed conditions and is proposing to install a 42" HDPE (DIPS) DR 21 liner to complete the work. This change in HDPE liner size will necessitate adapters to adjoin the existing 48" RCP (east end) and the existing 48" wye (west end at pump station). MPC proposes to order and install this new HDPE liner in the coming weeks upon receipt of material including the requested added components (ARV and access structure).

Based on the above and anticipating a suspension (delay) of work activities of four (4) to six (6) weeks for material acquisition and change order processing, the anticipated cost for both the added work, the additional costs related to equipment rental (trench boxes, excavator, and skid steer loader, etc.), and the work related to the change in conditions is \$225,225.00 (see attached Appendix A - Construction Cost Breakdown).

MPC values its opportunity to work with Orange County on this important infrastructure upgrade project. We thank you, and should you require any additional information do not hesitate to contact us.

Respectfully,



Robert "Bob" McSweeney, P.E.
Regional Vice President
Murphy Pipeline Contractors

CC: File

APPENDIX A - Construction Cost Breakdown				
RCO No. 2 – Added Work				
Long Lake Pump Station Force Main Rehabilitation				
PO Number: M00000111484				
Contractor: MURPHY PIPELINE CONTRACTORS, LLC				
Description of Work	Unit	Unit Price	QTY	Total
General Conditions & Maintaining Construction Site	LS	\$10,000.00	1	\$10,000.00
Remobilization	LS	\$12,500.00	1	\$12,500.00
ARV MOT (Overland Rd. Intersection)	LS	\$1,075.00	1	\$1,075.00
ARV w/ Structure	EA	\$24,300.00	1	\$24,300.00
ARV Roadway Restoration	LS	\$5,700.00	1	\$5,700.00
Entry Pit Extended Excavation	LS	\$13,150.00	1	\$13,150.00
Exist. Access Structure Removal / Disposal	LS	\$4,200.00	1	\$4,200.00
Compression Fit Extended Installation	LS	\$22,500.00	1	\$22,500.00
48x24 Tapping Sleeve w/ Access Structure	EA	\$44,700.00	1	\$44,700.00
Entry Pit Extended Restoration	LS	\$9,000.00	1	\$9,000.00
Post-Construction Video	EA	\$5,600.00	1	\$5,600.00
Existing Interior Liner Adjustment (Removal of fins)	LS	\$25,000.00	1	\$25,000.00
Extended MOT & Additional MOT (6 weeks)	LS	\$12,000.00	1	\$12,000.00
Dye Modifications / Reduction	LS	\$17,500.00	1	\$17,500.00
Extended Equipment Rental / Costs (6 weeks)	LS	\$5,000.00	1	\$5,000.00
48" to 42" Adapter Fittings	EA	\$6,500.00	2	\$13,000.00
42" Compression Fit Installation	LS	N/C	1	\$0.00
48" HDPE Restocking Fee	LS	N/C	1	\$0.00
42" HDPE (DIPS) DR 21	LF	N/C	1,000	\$0.00
42" HDPE Receipt and Fusing	LS	N/C	1	\$0.00
GRAND TOTAL				\$225,225.00

N/C = No Charge

Long Lake Pump Station Force Main Rehabilitation
Request for Change Order #2 – Added Work