



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: D. Albrey Arrington, Ph.D., Executive Director
FROM: Kris Dean, P.E., Deputy Executive Director
DATE: September 10, 2024
SUBJECT: Loxahatchee River Subaqueous Force Main Replacement / R20036 - Construction Contract Recommendation of Award

In December 2020 the District placed into service the 16" aerial force main across the Loxahatchee River on the Alternate A1A/Damon Bridge. With the aerial force main in service the District was poised to pursue investigation of the 24" subaqueous pipeline crossing beneath the Loxahatchee River. The contractor mobilized in March 2021 and installed access ports on the north and south ends of the crossing and began efforts to clean the force main prior to the inspection. Efforts to complete the cleaning encountered several issues including access, excessive sand/debris, an inoperable valve and failing pipe liner. Ultimately the failing pipe liner brought the project to a halt in May 2021 as the consulting engineer and contractor sought solutions for pipe liner removal.

The consulting engineer completed their review of the project and liner removal options in July and issued a project status update with recommendation. Based on the understanding that an existing technology to remove the liner from the 24" subaqueous pipeline is not currently available the recommendation was to terminate the pipe cleaning contract and pursue alternate force main routes across the river that provide redundancy to the system.

In June 2022 the Board approved a work authorization with Mock, Roos and Associates to provide engineering design and construction services for a directional drill installation under the Loxahatchee River west of the FEC railroad bridge. This route was selected during preliminary engineering performed by Mock Roos and presents the most favorable construction and operation conditions and the least risk in both the near-term installation and long-term operation of the replacement force main. A copy of the report is available for your review if desired.

This month we present the Recommendation of Award for the construction contract based on Mock Roos design. See attached Recommendation of Award.

Staff recommend the following motion.

“THAT THE DISTRICT GOVERNING BOARD award ITB 23-006-00128 to DBE Utility Services in the amount of \$1,596,124.26 in accordance with their Bid submitted on July 23, 2024 and a contingency amount of \$160,000.00.”

Stephen B. Rockoff
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



MOCK•ROOS

CONSULTING ENGINEERS

September 11, 2024

Mr. Kris Dean, P.E.
Deputy Executive Director/Director of Engineering
Loxahatchee River Environmental Control District
2500 Jupiter Park Drive
Jupiter, FL 33458

Ref No: PA# C0089.00
Subject: Loxahatchee River Subaqueous Forcemain Replacement
Recommendation of Award

Dear Kris:

Mock•Roos has completed our review of the five (5) bids received for the subject project on July 23, 2024, and has evaluated the bid tabs from the following contractors:

1. **Accurate Drilling Systems** - Bid amount: \$2,098,272.50
2. **DBE Utility Service** - Bid amount: \$1,596,124.26
3. **Felix Civil** - Bid amount: \$2,099,500.00
4. **Foster Marine** - Bid amount: \$2,415,615.00
5. **Quality Enterprises USA** - Bid amount: \$2,036,133.50

Enclosed, please find a full bid tabulation summary for your review and comparison of the bids. The apparent low bid was submitted by **DBE Management, LLC, d/b/a DBE Utility Services**, in the amount of **\$1,596,124.26**. It should be noted that DBE Utility Service had minor mathematical errors in their submission, resulting in minor adjustments (\$11.61 reduction) to the total bid amount (see the attached bid tab with noted corrections).

Upon reviewing DBE Utility Services' proposal, from an engineering perspective we found it to be responsive and in compliance with the project requirements. Furthermore, DBE Utility Services has demonstrated successful completion of projects with similar scope and complexity. Notably, in 2022 and 2003, Mock•Roos worked with DBE Utility Services on the installation of a water main under the Intracoastal Waterway for the Town of Manalapan. We also spoke with the contacts from their 5 most recently completed projects, all of whom provided positive feedback regarding DBE Utility Services' performance and ability to complete projects on schedule and within budget. Many of the contacts highlighted Amy Ganey as a well-organized project manager. Amy is also listed in the bid as the project manager for this contract.

At the time of the bid submission, DBE Utility Services held an active construction industry license issued by the State of Florida Department of Business and Professional Regulation. However, the license provided with the bid expired on August 31, 2024. It is likely that a renewal is in place since they have ongoing construction work in progress.

Mock, Roos & Associates, Inc.

5720 Corporate Way, West Palm Beach, Florida 33407-2066, 561-683-3113, www.MockRoos.com

Kris Dean
September 11, 2024
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Based on the above, we recommend that the District award the contract for this project to **DBE Utility Services**.

Our recommendation is based on an engineering review of the project, the contractor's past performance on similar projects, and the positive feedback received from references. We recommend that you consult legal counsel on any other matters related to the award of this contract to ensure full legal compliance.

Should you have any questions or require further clarification, please feel free to contact me at (561) 683-3113, extension 275.

Sincerely,
Mock, Roos & Associates, Inc.

John Cairnes
Senior Project Manager

Copies: Courtney Jones
Garry Gruber
Spencer Schroeder
Tyler Thompson



ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COSTS

Loxahatchee River Subaqueous Forcemain Crossing (Bid Submittal)

ITEM #	ITEM	UNIT	PLAN QTY:	UNIT PRICE	TOTAL	ACCURATE DRILLING SYSTEMS		DBE UTILITY SERVICE		FELIX CIVIL		FOSTER MARINE		QUALITY ENTERPRISES USA	
						UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
GENERAL CONDITIONS															
1	MOBILIZATION & GENERAL CONDITIONS	LS	1	\$ 150,000	\$150,000	\$226,000.00	\$226,000.00	\$133,560.72	\$133,560.72	\$330,000.00	\$330,000.00	\$110,000.00	\$110,000.00	\$430,248.00	\$430,248.00
2	BOND & INSURANCE REQUIREMENTS	LS	1	\$ 40,000	\$40,000	\$162,000.00	\$162,000.00	\$36,036.00	\$36,036.00	\$45,000.00	\$45,000.00	\$50,000.00	\$50,000.00	\$25,200.00	\$25,200.00
3	SITE CLEARING	LS	1	\$ 15,000	\$15,000	\$41,100.00	\$41,100.00	\$18,975.00	\$18,975.00	\$13,000.00	\$13,000.00	\$15,000.00	\$15,000.00	\$21,769.00	\$21,769.00
4	CONSTRUCTION LAYOUT & SURVEY	LS	1	\$ 20,000	\$20,000	\$13,500.00	\$13,500.00	\$27,880.60	\$27,880.60	\$10,000.00	\$10,000.00	\$13,750.00	\$13,750.00	\$23,250.00	\$23,250.00
5	NPDES COMPLIANCE	LS	1	\$ 10,000	\$10,000	\$16,550.00	\$16,550.00	\$25,983.10	\$25,983.10	\$13,000.00	\$13,000.00	\$10,000.00	\$10,000.00	\$21,564.00	\$21,564.00
6	PRE AND POST CONSTRUCTION VIDEO	LS	1	\$ 15,000	\$15,000	\$4,200.00	\$4,200.00	\$7,710.18	\$7,710.18	\$2,000.00	\$2,000.00	\$2,500.00	\$2,500.00	\$1,800.00	\$1,800.00
7	MAINTENANCE OF TRAFFIC	LS	1	\$ 20,000	\$20,000	\$140,000.00	\$140,000.00	\$25,692.15	\$25,692.15	\$30,000.00	\$30,000.00	\$7,500.00	\$7,500.00	\$41,834.00	\$41,834.00
8	AS-BUILT RECORD DRAWINGS	LS	1	\$ 20,000	\$20,000	\$5,775.00	\$5,775.00	\$21,214.05	\$21,214.05	\$6,500.00	\$6,500.00	\$15,000.00	\$15,000.00	\$8,250.00	\$8,250.00
SUBTOTAL ITEMS 1 - 8					\$290,000		\$609,125.00		\$297,051.80		\$449,500.00		\$223,750.00		\$573,915.00
FORCEMAIN REPLACEMENT - LOXAHATCHEE CROSSING															
9	20" DR9 HDPE FORCEMAIN WITH 2" CONDUIT VIA HDD	LF	2,150	\$ 500	\$1,075,000	\$499.00	\$1,072,850.00	\$300.57	\$646,225.50	\$470.00	\$1,010,500.00	\$550.00	\$1,182,500.00	\$398.00	\$855,700.00
10	HDPE TO PVC TRANSITION (INCL. PIPES/FITTINGS/APPURTENANCES)	EA	2	\$ 10,000	\$20,000	\$11,000.00	\$22,000.00	\$33,497.35	\$66,994.70	\$33,000.00	\$66,000.00	\$27,250.00	\$54,500.00	\$20,077.00	\$40,154.00
11	16" PVC FORCEMAIN (RESTRAINED)	LF	630	\$ 250	\$157,500	\$95.00	\$59,850.00	\$192.24	\$121,111.20	\$300.00	\$189,000.00	\$335.00	\$211,050.00	\$280.00	\$176,400.00
12	FITTINGS	TN	0.30	\$ 45,000	\$13,500	\$70,000.00	\$21,000.00	\$43,003.34	\$12,901.00	\$40,000.00	\$12,000.00	\$166,300.00	\$49,890.00	\$39,125.00	\$11,737.50
13	16" PLUG VALVE	EA	2	\$ 20,000	\$40,000	\$13,480.00	\$26,960.00	\$16,686.05	\$33,372.10	\$12,500.00	\$25,000.00	\$45,445.00	\$90,890.00	\$18,587.00	\$37,174.00
14	AIR RELEASE VALVE WITH MANHOLE	EA	2	\$ 20,000	\$40,000	\$14,200.00	\$28,400.00	\$20,127.76	\$40,255.52	\$18,000.00	\$36,000.00	\$30,130.00	\$60,260.00	\$34,613.00	\$69,226.00
15	CONNECT TO EXIST 16" FORCEMAIN (INCL. PIPES/FITTINGS/APPURTENANCES)	EA	1	\$ 10,000	\$10,000	\$24,825.00	\$24,825.00	\$19,769.17	\$19,769.17	\$20,000.00	\$20,000.00	\$37,950.00	\$37,950.00	\$20,816.00	\$20,816.00
16	CONNECT TO EXIST 24" FORCEMAIN (INCL. PIPES/FITTINGS/APPURTENANCES)	EA	1	\$ 15,000	\$15,000	\$20,350.00	\$20,350.00	\$10,406.35	\$10,406.35	\$20,000.00	\$20,000.00	\$52,425.00	\$52,425.00	\$33,423.00	\$33,423.00
SUBTOTAL ITEMS 9 - 16					\$1,371,000		\$1,276,235.00		\$951,035.54		\$1,378,500.00		\$1,739,465.00		\$1,244,630.50
SITE DEMOLITION / SURFACE RESTORATION															
17	NORTH ENTRY PIT RESTORATION / SODDING	LS	1	\$ 20,000	\$20,000	\$16,725.00	\$16,725.00	\$14,882.73	\$14,882.73	\$35,000.00	\$35,000.00	\$2,730.00	\$2,730.00	\$8,784.00	\$8,784.00
18	ISOLATE ABANDONED EXIST. 24" DIP FM	LS	1	\$ 10,000	\$10,000	\$30,000.00	\$30,000.00	\$6,666.55	\$6,666.55	\$18,500.00	\$18,500.00	\$73,355.00	\$73,355.00	\$16,880.00	\$16,880.00
19	PLUG AND ABANDON IN PLACE EXIST. 24" DIP FM	EA	1	\$ 5,000	\$5,000	\$3,000.00	\$3,000.00	\$9,853.97	\$9,853.97	\$11,600.00	\$11,600.00	\$36,650.00	\$36,650.00	\$17,684.00	\$17,684.00
20	REMOVE AND DISPOSE EXIST. 24" DIP FM	LF	650	\$ 80	\$52,000	\$32.25	\$20,962.50	\$43.46	\$28,249.00	\$40.00	\$26,000.00	\$100.00	\$65,000.00	\$81.00	\$52,650.00
21	TRENCH RESTORATION (INCL. 16" BASE/2" SP-9.5 IN PAVEMENT AREA)	LF	600	\$ 90	\$54,000	\$100.00	\$60,000.00	\$206.39	\$123,834.00	\$150.00	\$90,000.00	\$180.00	\$108,000.00	\$91.00	\$54,600.00
22	1" ASPHALT MILLING (OLD DIXIE HWY)	LS	1	\$ 5,000	\$5,000	\$13,000.00	\$13,000.00	\$26,394.23	\$26,394.23	\$14,000.00	\$14,000.00	\$32,305.00	\$32,305.00	\$11,773.00	\$11,773.00
23	1" ASPHALTIC CONCRETE (SP-9.5, TRAFFIC LEVEL C) (OLD DIXIE HWY)	SY	1,500	\$ 12	\$18,000	\$20.00	\$30,000.00	\$50.63	\$75,945.00	\$26.00	\$39,000.00	\$43.50	\$65,250.00	\$16.00	\$24,000.00
24	PAVEMENT MARKINGS (OLD DIXIE HWY)	LS	1	\$ 2,500	\$2,500	\$4,000.00	\$4,000.00	\$19,316.55	\$19,316.55	\$2,400.00	\$2,400.00	\$4,110.00	\$4,110.00	\$6,600.00	\$6,600.00
25	ROADWAY SHOULDER RESTORATION (OLD DIXIE HWY)	LS	1	\$ 5,000	\$5,000	\$30,000.00	\$30,000.00	\$26,666.20	\$26,666.20	\$25,000.00	\$25,000.00	\$39,000.00	\$39,000.00	\$7,433.00	\$7,433.00
26	SODDING / MISC. RESTORATION	LS	1	\$ 15,000	\$15,000	\$5,225.00	\$5,225.00	\$16,228.69	\$16,228.69	\$10,000.00	\$10,000.00	\$26,000.00	\$26,000.00	\$17,184.00	\$17,184.00
SUBTOTAL ITEMS 17 - 26					\$186,500		\$212,912.50		\$348,036.92		\$271,500.00		\$452,400.00		\$217,588.00
TOTAL ITEMS 1 - 26					\$1,847,500		\$2,098,272.50		\$1,596,124.26		\$2,099,500.00		\$2,415,615.00		\$2,036,133.50
CONTINGENCY (25%, ROUNDED)					\$470,000										
BIDDING ENVIRONMENT CONTINGENCY (25%, ROUNDED)					\$470,000										
TOTAL OPINION OF PROBABLE CONSTRUCTION COSTS (ROUNDED)					\$2,790,000		\$2,098,272.50		\$1,596,124.26		\$2,099,500.00		\$2,415,615.00		\$2,036,133.50

BID FORM — BASE BID
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
LOXAHATCHEE RIVER SUBAQUEOUS FORCE MAIN REPLACEMENT
UNIT PRICES

ITEM	DESCRIPTION	QTY	UNIT		UNIT PRICE		EXTENDED PRICE
GENERAL CONDITIONS							
1	MOBILIZATION & GENERAL CONDITIONS	1	LS	\$	\$133,560.72	\$	\$133,560.72
2	BOND & INSURANCE REQUIREMENTS	1	LS	\$	\$36,036.00	\$	\$36,036.00
3	SITE CLEARING	1	LS	\$	\$18,975.00	\$	\$18,975.00
4	CONSTRUCTION LAYOUT & SURVEY	1	LS	\$	\$27,880.60	\$	\$27,880.60
5	NPDES COMPLIANCE	1	LS	\$	\$25,983.10	\$	\$25,983.10
6	PRE AND POST CONSTRUCTION VIDEO	1	LS	\$	\$7,710.18	\$	\$7,710.18
7	MAINTENANCE OF TRAFFIC	1	LS	\$	\$25,692.15	\$	\$25,692.15
8	AS-BUILT RECORD DRAWINGS	1	LS	\$	\$21,214.05	\$	\$21,214.05
FORCEMAIN REPLACEMENT – LOXAHATCHEE CROSSING							
9	20" DR9 HDPE FORCEMAIN WITH 2" CONDUIT VIA HDD	2150	LF	\$	\$300.57	\$	\$646,230.92
10	HDPE TO PVC TRANSITION (INCL. PIPES/FITTINGS/APPURTENANCES)	2	EA	\$	\$33,497.35	\$	\$66,994.69
11	16" PVC FORCEMAIN (RESTRAINED)	630	LF	\$	\$192.24	\$	\$121,114.00
12	FITTINGS	0.3	TN	\$	\$43,003.34	\$	\$12,901.00
13	16" PLUG VALVE	2	EA	\$	\$16,686.05	\$	\$33,372.09
14	AIR RELEASE VALVE WITH MANHOLE	2	EA	\$	\$20,127.76	\$	\$40,255.53
15	CONNECT TO EXIST 16" FORCEMAIN (INCL. PIPES/FITTINGS/APPURTENANCES)	1	EA	\$	\$19,769.17	\$	\$19,769.17
16	CONNECT TO EXIST 24" FORCEMAIN (INCL. PIPES/FITTINGS/APPURTENANCES)	1	EA	\$	\$10,406.35	\$	\$10,406.35
SITE DEMOLITION / SURFACE RESTORATION							
17	NORTH ENTRY PIT RESTORATION / SODDING	1	LS	\$	\$14,882.73	\$	\$14,882.73
18	ISOLATE ABANDONED EXIST. 24" DIP FM	1	LS	\$	\$6,666.55	\$	\$6,666.55
19	PLUG AND ABANDON IN PLACE EXIST. 24" DIP FM	1	EA	\$	\$9,853.97	\$	\$9,853.97
20	REMOVE AND DISPOSE EXIST. 24" DIP FM	650	LF	\$	\$43.46	\$	\$28,247.45
21	TRENCH RESTORATION (INCL. 16" BASE/2" SP-9.5 IN PAVEMENT AREA)	600	LF	\$	\$206.39	\$	\$123,833.38
22	1" ASPHALT MILLING (OLD DIXIE HWY)	1	LS	\$	\$26,394.23	\$	\$26,394.23
23	1" ASPHALTIC CONCRETE (SP-9.5, TRAFFIC LEVEL C) (OLD DIXIE HWY)	1500	SY	\$	\$50.63	\$	\$75,945.00
24	PAVEMENT MARKINGS (OLD DIXIE HWY)	1	LS	\$	\$19,316.55	\$	\$19,316.55
25	ROADWAY SHOULDER RESTORATION (OLD DIXIE HWY)	1	LS	\$	\$26,666.20	\$	\$26,666.20
26	SODDING / MISC. RESTORATION	1	LS	\$	\$16,228.69	\$	\$16,228.69

\$646,225.50
\$66,994.70
\$121,111.20
\$33,372.10
\$40,255.52

\$123,834.00
\$75,945.00

CONSTRUCTION COST (BASE BID)

\$ **1,596,135.87** \$1,596,124.26