



Legislation Text

File #: 24-1383, **Version:** 1

STRATEGIC PRIORITY: Transportation & Infrastructure

AGENDA DATE: June 26, 2024

COUNCIL DISTRICT(S): Outside City Limits

DEPARTMENT: Water Utilities Department

EXECUTIVE: Majed Al-Ghafry

SUBJECT

Authorize an increase in the construction services contract with BAR Constructors, Inc. for additional work associated with the construction of a new pump station to replace the existing Pump Station No. 1 at the Elm Fork Water Treatment Plant - Not to exceed \$2,440,248.77, from \$51,603,219.94 to \$54,043,468.71 - Financing: Water Capital Improvement G Fund

BACKGROUND

The Elm Fork Water Treatment Plant located in Carrollton, Texas was originally constructed in the 1950s and is the second largest of three water treatment plants serving the customers of Dallas Water Utilities. The existing Pump Station No. 1 was constructed in 1952 and served as the plant's original raw water and potable water pump station. On September 27, 2017, the City Council authorized a construction services contract with BAR Constructors, Inc. for the construction of a new pump station to replace the existing Pump Station No. 1 at the Elm Fork Water Treatment Plant by Resolution No. 17-1563. Due to its age, replacement of the existing pump station is necessary to bring the facility up to current standards and capacity requirements. The new facility includes the installation of four, 55 million gallons per day (MGD) raw water pumps and four, 40 MGD potable water pumps as well as associated yard piping, valves, and electrical improvements that will provide greater flexibility and efficiency in pumping operations. Also included are post clearwell chlorine and ammonia feeds which will improve water quality in the distribution system.

On June 12, 2019, the City Council authorized Change Order No. 1 to the construction services contract with BAR Constructors, Inc. for additional labor and materials required to construct a 4160V transformer as well as additional work identified during construction. The customer-owned transformer was required as part of the expansion of the Oncor West Electrical Substation located inside the Elm Fork Water Treatment Plant. Expansion of the substation was coordinated with Oncor during design, but shortly after the construction contract was bid, Oncor notified the City of their plans to modify the expansion of the substation. Other additional work included minor changes to structural, chemical, mechanical, and piping work and a video monitoring system for better oversight of construction.

On August 26, 2020, the City Council authorized Change Order No. 2 to the construction services contract with BAR Constructors, Inc. for additional labor and materials required to complete the extensive yard piping modifications and address unforeseen conditions required to connect the new Pump Station No. 1 to the Elm Fork Water Treatment Plant as well as the water distribution system. Additional work included modifications to the West Substation, changes to the electrical and ammonia systems, as well as additional handrail at the ground level of the pump station for increased safety.

On October 26, 2022, the City Council authorized Change Order No. 3 to the construction services contract with BAR Constructors, Inc. to include necessary modifications to yard and process piping, site civil work including a guardrail and additional curb and gutter, supervisory control and data acquisition and Human-Machine Interface improvements that were not included in the original contract, electrical modifications for the new heating, ventilation and air conditioning and elevator, modifications to chemical equipment, electrical gear changes caused by grounding issues at the new transformer, modifications to instrumentation and controls, and repairs and cleaning of the job site caused by flooding from a nearby water main break.

This action will authorize Change Order No. 4 to the construction services contract with BAR Constructors, Inc. to include changes to valve and pipe tie-ins necessary to complete construction, as well as changes to pressure gauges to allow more precise monitoring of the pumps. Also included are changes to variable frequency drive wiring and controls, vibration monitoring, and changes to electrical transfer switches to eliminate issues related to electronic harmonics. Additionally, this item includes modifications to ammoniators, chemical injection quills, and repairs to a valve actuator required due to flooding of the valve vault, as well as minor changes to roof drains and heating, ventilation and air conditioning unit repairs, and a credit for floor sealing that was determined to be unnecessary. Finally, this item includes costs necessary to install a 72-inch line stop and cut-in a 72-inch butterfly valve on the water line downstream from the Elm Fork Water Treatment Plant clearwells. The line stop and valve are necessary to complete contract demolition work and will allow for future isolations of the clearwells without risking severe damage to the clearwell foundation.

ESTIMATED SCHEDULE OF PROJECT

Began Construction	December 2017
Complete Construction	July 2024

PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)

On September 27, 2017, the City Council authorized a construction services contract with BAR Constructors, Inc., for the construction of a new pump station to replace the existing Pump Station No. 1 at the Elm Fork Water Treatment Plant by Resolution No. 17-1563.

On June 12, 2019, the City Council authorized Change Order No. 1 to the construction services contract with BAR Constructors, Inc., for additional work associated with the construction of a new pump station to replace the existing Pump Station No. 1 at the Elm Fork Water Treatment Plant by Resolution No. 19-0911.

On August 26, 2020, the City Council authorized Change Order No. 2 to the construction services contract with BAR Constructors, Inc., for additional work associated with the construction of a new pump station to replace the existing Pump Station No. 1 at the Elm Fork Water Treatment Plant by Resolution No. 20-1273.

On October 26, 2022, the City Council authorized Change Order No. 3 to the construction services contract with BAR Constructors, Inc., for additional work associated with the construction of a new pump station to replace the existing Pump Station No. 1 at the Elm Fork Water Treatment Plant by Resolution No. 22-1624.

FISCAL INFORMATION

Fund	FY 2024	FY 2025	Future Years
Water Capital Improvement G Fund	\$2,440,248.77	\$0.00	\$0.00

Construction	\$50,090,500.00
Change Order No. 1	\$ 644,091.87
Change Order No. 2	\$ 588,014.91
Change Order No. 3	\$ 280,613.16
Change Order No. 4 (this action)	\$ <u>2,440,248.77</u>
 Project Total	 \$54,043,468.71

M/WBE INFORMATION

In accordance with the City’s Business Inclusion and Development Policy adopted on September 23, 2020, by Resolution No. 20-1430, as amended, the M/WBE participation on this contract is as follows:

Contract Amount	Procurement Category	M/WBE Goal
\$2,440,248.77	Construction	25.00%*
M/WBE Subcontracting %	M/WBE Overall %	M/WBE Overall Participation \$
51.67%	47.52%	\$25,682,999.26
<ul style="list-style-type: none"> • This contract does meet the M/WBE subcontracting goal. • Change Order No. 4 - 47.52% Overall MWBE Participation • BAR Constructors, Inc. - Local; Workforce - 35.00% Local 		

OWNER

BAR Constructors, Inc.

Isidro Arrambide, President

MAP

Attached