



Legislation Text

File #: 21-1641, **Version:** 1

STRATEGIC PRIORITY: Mobility Solutions, Infrastructure, and Sustainability

AGENDA DATE: November 10, 2021

COUNCIL DISTRICT(S): 8

DEPARTMENT: Water Utilities Department

EXECUTIVE: Majed Al-Ghafry

SUBJECT

Authorize a construction services contract for electrical and Supervisory Control and Data Acquisition System improvements at the Southside Wastewater Treatment Plant - Archer Western Construction, LLC, lowest responsible bidder of two - Not to exceed \$44,624,500.00 - Financing: Wastewater Capital Improvement G Fund (\$30,000,000.00) and Wastewater Capital Improvement F Fund (\$14,624,500.00)

BACKGROUND

The City of Dallas owns and operates two wastewater treatment plants with a combined capacity of 280 million gallons per day. The Southside Wastewater Treatment Plant is located in southeast Dallas and is permitted to treat an average annual flow of 110 million gallons of wastewater per day. Certain electrical and Supervisory Control and Data Acquisition (SCADA) infrastructure at the plant has reached the end of its service life. All hardware and software associated with the current SCADA System is obsolete and not supported by the original manufacturers. In addition, the influent screening facility has experienced equipment failures and is not operating efficiently. These issues have resulted in increased operation and maintenance costs and if not addressed, put the plant at higher risk for equipment failures and permit violations.

This action will authorize a construction services contract with Archer Western Construction, LLC for improvements to the electrical infrastructure, SCADA Systems, and bar screens. Improvements will include replacement of SCADA infrastructure, workstations, servers, network wiring, Load Center Stations, Motor Control Centers, and associated 15 kV cables and conduits that have reached the end of their service life. The work also includes the installation of variable frequency drives on several pumps to improve efficiency and reliability, as well as replacing all six bar screens and influent piping at Influent Pump Station C. These targeted improvements will replace aging infrastructure and reduce electrical costs through the use of newer, more efficient technology. Improved automation and control also allow staff to optimize treatment operations by improving reliability, consistency and minimizing treatment cost. Further, these improvements were identified in the 2010 Wastewater Facilities Strategic Plan and are critical to ensure continued, reliable treatment of wastewater.

The following chart illustrates Archer Western Construction, LLC contractual activities with the City of Dallas for the past three years:

	<u>PBW</u>	<u>DWU</u>	<u>PKR</u>	<u>TRN</u>
Projects Completed	0	9	0	0
Change Orders	0	3	0	0
Projects Requiring Liquidated Damages	0	0	0	0
Projects Completed by Bonding Company	0	0	0	0

ESTIMATED SCHEDULE OF PROJECT

Begin Construction December 2021
Complete Construction July 2024

PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)

This item has no prior action.

FISCAL INFORMATION

Fund	FY 2022	FY 2023	Future Years
Wastewater Capital Improvement F Fund	\$14,624,500.00	\$0.00	\$0.00
Wastewater Capital Improvement G Fund	\$30,000,000.00	\$0.00	\$0.00
Total	\$44,624,000.00	\$0.00	\$0.00

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	M/WBE %	M/WBE \$
\$44,624,500.00	Construction	32.00%	32.00%	\$14,279,841.00
• This contract meets the M/WBE goal.				
• Archer Western Construction, LLC - Local; Workforce - 7.91% Local				

PROCUREMENT INFORMATION

The following two bids with quotes were opened on August 6, 2021:

*Denotes successful bidder

Bidders

Bid Amount

*Archer Western Construction, LLC 1411 Greenway Drive Irving, Texas 75038	\$44,624,500.00
Oscar Renda Construction, Inc.	\$57,748,000.00

OWNER

Archer Western Construction, LLC

Daniel P. Walsh, President

MAP

Attached