



Legislation Details (With Text)

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Title: Authorize a construction contract for improvements to the ozone generation facilities at the Bachman, East Side, and Elm Fork Water Treatment Plants - Archer Western Construction, LLC, lowest responsible bidder of two - Not to exceed \$36,420,755.00 - Financing: Water Capital Improvement D Fund

Sponsors:

Indexes: 200, 6

Code sections:

Attachments: 1. Maps, 2. Resolution

Date	Ver.	Action By	Action	Result
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STRATEGIC PRIORITY: Mobility Solutions, Infrastructure, and Sustainability

AGENDA DATE: September 23, 2020

COUNCIL DISTRICT(S): 6, Outside City Limits

DEPARTMENT: Water Utilities Department

EXECUTIVE: Majed Al-Ghafry

SUBJECT

Authorize a construction contract for improvements to the ozone generation facilities at the Bachman, East Side, and Elm Fork Water Treatment Plants - Archer Western Construction, LLC, lowest responsible bidder of two - Not to exceed \$36,420,755.00 - Financing: Water Capital Improvement D Fund

BACKGROUND

Dallas Water Utilities (DWU) operates three potable water treatment plants (Bachman, East Side, and Elm Fork) and provides water to approximately 2.5 million residents in the City of Dallas and neighboring communities. The combined treatment capacity of these facilities is approximately 900 million gallons per day. Ozone is the primary water treatment disinfectant at all three plants and allows DWU to comply with federal regulations governing disinfection by-products and improves the finished water quality by destroying taste and odor causing compounds. The first ozone system was installed at the Elm Fork Water Treatment Plant in the early 1990's and ozone facilities were added to the East Side and Bachman Water Treatment Plants in 2002 and 2006 respectively.

An evaluation of critical performance limiting factors was completed at each plant, which identified the need to replace the ozone generating equipment. In response, DWU completed engineering designs to make specific improvements to the ozone facilities at each treatment plant. This action authorizes the replacement of the ozone generating equipment and appurtenances at the Bachman, East Side, and Elm Fork Water Treatment Plants. Included in the project are three new generators and associated equipment at Bachman, four new generators and associated equipment at East Side, and four new generators at Elm Fork. The project also includes new liquid oxygen tanks with the capacity to meet the entire production needs at East Side, the relocation of refurbished tanks to increase storage capacity and the installation of a second transformer and power supply system at Elm Fork and needed modifications to the ozone delivery system at Bachman.

The ozone system is a critical treatment component at all three plants and the current equipment requires significant time and materials to maintain. Ozone technology has improved since the original installations at each plant, and this project will improve the reliability and efficiency of these systems to meet system demands now and in the future, while reducing operation and maintenance costs.

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>
Projects Completed	0	9	0
Active Projects	0	4	0
Change Orders	0	3	0
Projects Requiring Liquidated Damages	0	0	0
Projects Completed by Bonding Company	0	0	0

ESTIMATED SCHEDULE OF PROJECT

Begin Construction October 2020
 Complete Construction August 2022

FISCAL INFORMATION

Fund	FY 2020	FY 2021	Future Years
Water Capital Improvement D Fund	\$36,420,755.00	\$0.00	\$0.00

<u>Council District</u>	<u>Amount</u>
6	\$ 5,843,400.00
Outside City Limits	<u>\$30,577,355.00</u>
Total	\$36,420,755.00

M/WBE INFORMATION

In accordance with the City's Business Inclusion and Development Plan adopted on October 22, 2008, by Resolution No. 08-2826, as amended, the M/WBE participation on this contract is as follows:

Contract Amount	Category	M/WBE Goal	M/WBE %	M/WBE \$
\$36,420,755.00	Construction	25.00%	7.64%	\$2,781,992.00
• This contract does not meet the M/WBE goal, but complies with good faith efforts.				
• Archer Western Construction, LLC - Local; Workforce - 7.91% Local				

PROCUREMENT INFORMATION

The following two bids with quotes were opened on July 10, 2020:

*Denotes successful bidder

<u>Bidders</u>	<u>Bid Amount</u>
*Archer Western Construction, LLC 1411 Greenway Drive Irving, Texas 75038	\$36,420,755.00
Oscar Renda Contracting, Inc.	\$45,611,800.00

OWNER

Archer Western Construction, LLC

Daniel P. Walsh, President

MAPS

Attached