Recommendation for Action

File #: 21-3322, **Agenda Item #:** 16. 11/18/2021

Posting Language

Authorize award and execution of a construction contract with Control Panels USA Inc., for the Walnut Creek Wastewater Treatment Plant Controls and Network project in the amount of $5,987,000 plus a $598,700 contingency, for a total contract amount not to exceed $6,585,700. (Related to Item 21-3321)

[Note: This contract will be awarded in compliance with City Code Chapter 2-9A (Minority Owned and Women Owned Business Enterprise Procurement Program) by meeting the goals with 51.51% MBE and 1.07% WBE participation.

Lead Department

Capital Contracting Office

Managing Department

Public Works Department

Fiscal Note

Funding is available in the Fiscal Year 2021-2022 Capital Budget of Austin Water.

Purchasing Language:

Lowest responsive bid of three bids received through a competitive Invitation for Bids solicitation.

For More Information:

Inquiries should be directed to the City Manager's Agenda Office, at 512-974-2991 or AgendaOffice@austintexas.gov <mailto:AgendaOffice@austintexas.gov>

NOTE: Respondents to this solicitation, and their representatives, shall direct inquiries to Rolando Fernandez, 512-974-7749, Garrett Cox, 512-974-9423, or the Project Manager, Gabriel Castaño, 512-974-2937.

Council Committee, Boards and Commission Action:

November 3, 2021 -- Recommended by the Water and Wastewater Commission on a 6-0 vote with Commissioner Penn recusing and Commissioners Michel, Musgrove, and Williams absent and one vacancy.

Additional Backup Information:

Walnut Creek Wastewater Treatment Plant (WWTP) is permitted to treat and discharge an average daily flow of 75 million gallons per day (MGD) and a two-hour peak flow of 165 MGD. Treated plant effluent is discharged into the Colorado River. A portion is used for non-potable water on the plant site and supplies much of the City's growing Reclaimed Water program.

Walnut Creek WWTP uses Supervisory Control and Data Acquisition (SCADA) extensively for process control and monitoring. The system is made up of Programmable Logic Controllers (PLCs) located in proximity to process areas of the plant, and a PLC network. The majority of the existing SCADA system is made up of PLCs and a dual channel copper SY/NET network that have exceeded their useful life. This system was

installed around 1990 as part of a plant-wide network renovation. Recent projects have installed fiber optic cabling and Ethernet communications to some portions of the plant, but the plant fiber network has not been addressed as a whole.

The intent of this project is to replace the control system network and hardware with modern equipment which follows Austin Water SCADA standards. This will be achieved by replacing existing PLCs, upgrading computers that run SCADA software, and utilizing fiber optic cabling and Ethernet networking equipment to extend the SCADA Ethernet network to portions of the plant currently served by SY/MAX PLCs and SY/NET.

This item includes one allowance. The allowance of $650,000 will be used for SCADA equipment for the plant during construction. An allowance is an amount that is specified and included in the construction contract or specifications for a certain item(s) of work whose details are not yet determined at the time of bidding.

Due to the potential for unknown conditions when working in an operating wastewater treatment facility and the need to minimize construction duration and equipment downtime, a 10% contingency in funding has been included to allow for the expeditious processing of any change orders. A contingency is an additional amount of money added to the construction budget to cover any unforeseen construction costs associated with the project. By authorizing the additional contingency funding, Council is authorizing any change orders within the contingency amount.

No public impacts are anticipated. All improvements will be within the Walnut Creek Wastewater Treatment Plant site.

It is important for this project to move forward because of the age and condition of the equipment. If the project is not approved, the plant's ability to reliably accept and treat wastewater may be impacted.

The contract allows 1,044 calendar days for completion of this project. This project is located within zip code 78724 (District 1).

Control Panels USA Inc. is located in Austin, TX.

Strategic Outcome(s):

Health and Environment.