City of Round Rock

221 East Main Street
Round Rock, Texas 78664

Legislation Details (With Text)

File #:	2020-0066		
Type:	Resolution	**Status:**	Approved
File created:	2/24/2020	**In control:**	City Council
On agenda:	3/12/2020	**Final action:**	3/12/2020
Title:	Consider a resolution authorizing the Mayor to execute a Contract for Engineering Services with Plummer Associates, Inc. for the Communications and Water Plant Control System Improvements Project.		
Sponsors:			
Indexes:	Self-Financed Water Construction		
Code sections:			
Attachments:	1. Resolution, 2. Exhibit A, 3. Form 1295		

Date	Ver.	Action By	Action	Result
3/12/2020	1	City Council	approve	Pass

Consider a resolution authorizing the Mayor to execute a Contract for Engineering Services with Plummer Associates, Inc. for the Communications and Water Plant Control System Improvements Project.

The City of Round Rock's Communications and Water Plant Control System Improvements project will involve updating communication infrastructure in Round Rock's water treatment plant (WTP), reuse water distribution system, water distribution system, and wastewater collection system.

Due to the rapid advancement of technology, the electronic control system infrastructure associated with Round Rock's WTP has either become outdated, is reaching its design life, or is no longer supported by the manufacturer. This project will reorganize, consolidate and upgrade the hardware and network components associated with the plant control system to current industry standards. Updating the WTP's hardware also provides the opportunity to switch the WTP's operating platform to match the operating platform currently being installed at the Brushy Creek East Regional Wastewater Treatment Plant. Updating the hardware and using the same operating platform and programming architecture across the entire water and wastewater system provides for operational efficiency and a more maintainable system.

Additionally, the 2019 Communication System Masterplan identified a need for improvements to the communication network associated with the current field assets in the water, reuse water, and wastewater systems. These sites rely on point-of-site radio antennas for all communications. With increased development, maintaining the point-of-site antennas is becoming difficult. This project will update the current field communication network to a modern cellular network. Doing this will allow for increased reliability in the system, the ability to transmit more information and increased ease in adding additional monitoring to the system. Updating the field communication network also allows

information to be received when needed by both the water and wastewater treatment plants. This provides greater operational flexibility in the event of an emergency.

This contract with Plummer Associates, Inc. is for engineering services and includes design, bidding, and construction phase services. Plummer Associates will also self-perform a portion of the programming and integration work required for the project.

Cost: $798,337
Source of Funds: ***Self-Financed Water Construction***