




Interoffice Memorandum

November 18, 2020

TO: Mayor Jerry L. Demings
-AND-
County Commissioners

FROM:  Carrie Mathes, CFCM, CPPO, C.P.M., Manager, Procurement Division

CONTACT: Lindy A. Wolfe, P.E., Manager, Utilities Engineering Division
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SUBJECT: Approval of No. Amendment No. 2, Contract Y17-811, Southwest Service Area Potable Water Storage and Repump Facility Phase 1 Project

ACTION REQUESTED:

Approval of Amendment No. 2, Contract Y17-811, Southwest Service Area Potable Water Storage and Repump Facility Phase 1 Project, with Hazen and Sawyer, P.C, in the amount of \$399,382.57, for a revised contract amount of \$1,149,274.52.

PROCUREMENT:

This amendment will provide additional engineering services during bidding and construction needed to assist the County in constructing the Southwest Service Area Potable Water Storage and Repump Facility (SWSA SRF) and Avalon Road Master Pump Station as one project and to coordinate the SWSA SRF design with evolving adjacent development and road widening designs.

FUNDING:

Funding is available in account number 4420-038-1506-6340.

APPROVALS:

The Utilities Engineering Division concurs with this recommendation.

DISCUSSION:

The Board approved the selection of Hazen and Sawyer, P.C. on August 22, 2017, and authorized negotiation and execution of a contract by the Procurement Division provided that the contract did not exceed the budget amount of \$750,000. The contract was executed on January 25, 2019, in the total contract award amount of \$749,891.95.

The contract provides for engineering and support services for the design, bidding, and construction administration of the SWSA SRF Project for Orange County.

The project will provide potable water storage and pumping facilities necessary to address periods of peak water volume usage, such as fire flow demand, in the rapidly growing Southwest Service Area. Phase I of the SWSA SRF includes one 3.5 million-gallon potable water ground storage tank (GST) and a 5,000 gallons-per-minute capacity high service potable water re-pumping (pressure boosting) station.

Orange County Utilities (OCU) decided to co-locate a new wastewater master pump station, the Avalon Road Master Pump Station (ARMPS), on the same property to serve new development in this area of the County. The ARMPS project was designed by a separate engineer. Because the design for both projects was completed at the same time, OCU evaluated the efficiencies of combining the projects into one project for bidding and construction and determined there are a number of advantages to constructing the projects under one contract, including:

- Ability to have facilities online faster than doing them sequentially to provide best service to the community.
- Cost savings for advertising and bidding one project instead of two separate projects.
- Avoidance of duplication of costs for shared construction items (field offices, contract administration).
- Avoidance of potential conflicts that could arise from two contractors working in close proximity on the same site.

The construction estimate for the combined potable water facility and the wastewater master pump station projects is approximately \$19 million (\$11 million for the potable water facility and \$8 million for the master wastewater pump station). Because Hazen and Sawyer, P.C. is the engineer for the overall site, they have been asked to take on an expanded role during bidding and construction of the combined projects. In addition, ongoing coordination with the evolving adjacent development design and the Avalon Road widening project currently under construction will be required during the bidding phase of the SWSA SRF in order to ensure that the County's infrastructure is compatible with adjacent projects and is protected during construction of the adjacent projects. The amendment also includes deletion of a hypochlorite chemical feed system due to the results of a recent water quality study.

Hazen and Sawyer, P.C.'s proposal for additional design coordination and construction administration services include coordination of design during the bid period for use of a shared access road, compatibility with the Avalon Road widening, rerouting a gravity sewer system, lowering the existing water main within the Avalon Road right-of-way, and deletion of a chemical feed system. Expanded construction administration tasks include using contract manager software for construction coordination and extending the construction timeframe.

The proposed fee for the Amendment No. 2 is a lump sum of \$399,382.57. The original contract fee structure and rates apply to this amendment.

The following are the previous contract actions:

Amendment No. 1 Effective Date: 9/27/2019 Amount \$0.00

Amendment 1 was a scope change where additional surveying services were required but costs were shifted from previously budgeted tasks resulting in a zero-dollar change.