



AGENDA MEMORANDUM

Future Item for the City Council Meeting of December 11, 2018

Action Item for the City Council Meeting of January 8, 2019

DATE: November 15, 2018

TO: Keith Selman, Interim City Manager

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Construction Contract

Nueces River Raw Water Pump Station Improvements
(Capital Improvement Program)

CAPTION:

Motion authorizing a construction contract with CSA Construction, Inc., of Houston, Texas in the amount of \$12,950,000 for the Nueces River Raw Water Pump Station project for Total Base Bid plus Additive/Deductive Alternates No. 1 and No. 2.

PURPOSE:

This project delivers major rehabilitation and upgrades to the Nueces River Raw Water Pump Station (Pump Station) to improve pumping capacity and reliability of the pump station.

BACKGROUND AND FINDINGS:

The Pump Station conveys raw water from Nueces River to O.N. Stevens Water Treatment Plant (ONSWTP) through dual, 54-inch Nueces River Raw Water Pump Station transmission lines. The Pump Station is comprised of Pump Building No. 1 that was constructed in 1954 and Pump Building No. 2 constructed in 1981. Each building includes 4 large pump and motor assemblies with associated valves, piping, electrical, controls and miscellaneous equipment. Peak capacity of the current Pump Station and serviceable pumps is 103 million gallons daily (MGD). Current peak demand for treated water from ONSWTP is 111.7 MGD. Due to age and deterioration, 2 pumps in Building No. 1 have been removed from service. All 4 pumps in Building No. 2 are still in service.

To meet peak demands and reliability for treated water, this project upgrades the Pump Station to increase firm capacity to 130 MGD with future expansion to 160 MGD. A separate project is planned next year to construct a third, parallel 54-inch water transmission line.

This project was developed with a Base Bid and Additive/Deductive Alternates No.1 and No.2. as follows:

BASE BID: Reconfigure and refurbish Pump Building No. 1 & 2 structures, pumps, motors, controls, electrical/mechanical systems, and miscellaneous equipment. A summary is provided below:

Pump Building 1:

- Removal and replacement of existing siding and roof panels
- Hydraulic improvements to concrete intake structure
- New piping, valves, instrumentation, and bridge crane, pump motor, and additional new Pump #1 with cast-iron bowl and bronze impeller

Pump Building 2:

- Replacement of electrical gear, motor, motor drives, and instrumentation

Electrical Building and Site Work:

- Demolition of existing, deteriorated building
- New concrete slab, electrical building, electrical gear, motor and feeder protection relays
- Underground duct banks to Building 1 and 2
- New diesel generator and fuel tank
- Automated access gate and new asphalt pavement

ADDITIVE/DEDUCTIVE ALTERNATE No. 1: Upgraded, higher durability Pump #1 with stainless steel bowl and impeller in lieu of cast-iron bowl and bronze impeller.

ADDITIVE/DEDUCTIVE ALTERNATE No. 2: Demolition and replacement of the entire existing Pump Building No. 1 above-ground structure in lieu of new siding and roof panels.

The City received proposals from three (3) bidders and their respective bids are as follows:

BASE BID SUMMARY				
CONTRACTOR	BASE BID	ADD/DED. ALT. 1	ADD/DED. ALT. 2	TOTAL BID
CSA Construction, Inc. Houston, TX	\$12,980,000.00	\$70,000.00	(\$100,000.00)	\$12,950,000.00
Associated Construction Partners, Ltd. Boerne, TX	\$13,793,217.73	\$64,999.00	\$1.00	\$13,858,217.73
Huffman Construction, LLC Poplar Bluff, MO	\$14,187,000.00	\$65,000.00	\$0.00	\$14,252,000.00
<i>Engineer's Opinion of Probable Cost</i>	<i>\$10,640,070</i>	<i>\$82,500.00</i>	<i>\$0.00</i>	<i>\$10,722,570.00</i>

The design engineer for this project is Urban Engineering who was selected under RFQ 2011-05.

ALTERNATIVES:

1. Authorize execution of construction contract. (Recommended)
2. Do not authorize execution of contract. (Not Recommended)

OTHER CONSIDERATIONS:

Improvements at Nueces River Pump Station are consistent with ongoing improvements at ONSWTP to address increasing treatment capacity to 200 MGD.

CONFORMITY TO CITY POLICY:

Conforms to FY 2019 Capital Improvement Planning (CIP) Budget.

EMERGENCY / NON-EMERGENCY:

Non-Emergency

DEPARTMENTAL CLEARANCES:

Water Utilities

FINANCIAL IMPACT:

☐ Operating ☐ Revenue ☒ **Capital** ☐ Not applicable

Fiscal Year 2018-2019	Project to Date Expenditures (CIP only)	Current Year	Future Years	TOTALS
Budget	1,819,210	5,000,000	10,502,545	17,321,755
Encumbered / Expended Amount	1,819,210			1,819,210
This item		4,500,000	8,450,000	12,950,000
Future Anticipated Expenditures This Project		500,000	2,052,545	2,552,545
BALANCE	0	0	0	0

Fund(s): CIP Funds

RECOMMENDATION:

Staff and Urban Engineering recommend awarding the construction contract to CSA Construction, Inc.

LIST OF SUPPORTING DOCUMENTS:

Project Budget
Location Map
Presentation
Letter of Recommendation