



City Council Report

Date: 9/12/2016
To: City Council
Through: Kari Kent, Assistant City Manager
From: Beth Huning, City Engineer
Rob Kidder, Assistant City Engineer
Subject: Transfer Station No. 3 Upgrade Project – 3038 E. McDowell Road
City Project No. C10392
District # 1

Strategic Initiatives



Purpose and Recommendation

The purpose of this report is to provide information to the Council concerning the results of the bids received for the Transfer Station No. 3 Upgrade Project (See Exhibit "A" for project location).

Staff recommends that Council award a contract for this project to the lowest responsible bidder, Garney Companies, Inc., in the amount of \$5,495,000.00 and authorize a change order allowance in the amount of \$549,500.00.

Background

Transfer Station No. 3 (TS-3) has an installed capacity of 24 million gallons per day (MGD) and was designed to convey potable water from the Val Vista Water Treatment Plant (VWTP) to the City of Mesa Falcon Field water service zone. The existing station is also relied upon to convey water to the Brown Road Water Treatment Plant during Central Arizona Project (CAP) canal dry-ups, or other periods of high water demand in the eastern service zones. A review of the historical flows from TS-3 indicates the station has operated above firm capacity on numerous occasions.

An evaluation of the capacity of TS-3 was performed in late 2012 and recommendations were made to upgrade its capacity in anticipation of the 2019 CAP canal dry-up and to improve overall reliability in the operation of the water distribution system. In addition, the site has numerous mechanical and piping issues that need to be addressed and aging electrical equipment that is due for replacement.

Discussion

This project will expand TS-3 to an installed capacity of 32 MGD. Provisions will be provided for the future buildout of the facility (estimated to occur in 2040). This project will include support facilities such as an Electrical Building and a Disinfection Building. The Disinfection Building will house a chlorine gas disinfection system and cylinder storage and will include a chlorine leak detection and scrubber system for public safety. An on-site Pressure Reducing Valve (PRV) station will be constructed to allow treated CAP water from the Brown Road Water Treatment Plant to flow into the VVWTP reservoir and serve the western half of the City.

Once underway, the project construction is anticipated to last approximately 10 months.

Alternatives

An alternative to this project would be to not construct these improvements. However, this may put the reliability of the City's water distribution system and customers at risk. The expanded capacity of TS-3 is needed to maintain adequate water reservoir levels and system pressures. During an outage to the CAP canal or the Brown Road Water Treatment Plant, planned or unplanned, the current system cannot adequately meet City water demands for any extended period of time.

Fiscal Impact

The total authorized amount recommended for this project is \$6,044,500.00, based upon the lowest responsible bid of \$5,495,000.00, plus an additional \$549,500.00 (10%) as a change order allowance. This allowance will only be utilized for approved change orders. This project is funded by 2010 and 2014 authorized Water Bonds.

Coordinated With

The Water Resources Department concurs with this recommendation.

CITY OF MESA
MESA, ARIZONA

Transfer Station No. 3 Upgrade Project

PROJECT NO. C10392

Tabulation of Bids Received, Thursday, August 4, 2016, at 1:00 P.M.

ENGINEER'S ESTIMATE	\$6,472,493.58
1. Garney Companies, Inc.	\$5,495,000.00
2. Archer Western Construction LLC	\$5,593,038.00
3. PCL Construction, Inc.	\$6,332,000.00