

# **City Council Report**

**Date**: October 18, 2021

**To**: City Council

Through: Marc Heirshberg, Deputy City Manager

**From**: Beth Huning, City Engineer

Marc Ahlstrom, Assistant City Engineer

**Subject**: Gas Scada System Improvements

City Project No. C01886PH3

Council District(s) 3, Tempe, and Pinal County

#### **Purpose and Recommendation**

The purpose of this report is to provide information to Council concerning the results of the bids received for Gas Scada System Improvements (See Exhibit "A" for the project locations).

Staff recommends that Council award a contract for this project to the lowest responsible bidder, Green Tanner Industrial Construction, in the amount of \$342,386.80, and authorize a change order allowance in the amount of \$34,239.00 (10%).

#### **Background**

The City's natural gas utility is required to monitor system pressure at the outlets of all pressure regulating stations as part of 49 C.F.R. §192.741. The preferred method for monitoring pressure is commonly referred to as SCADA (Supervisory Control and Data Acquisition) and is shared amongst all City owned utilities. Using the City's SCADA network helps minimize operation and maintenance costs for the City as a whole.

Gas system pressures at the proposed locations have been manually monitored since their installation. Manual monitoring results in operational inefficiencies, increased operating costs, and increased public safety concerns (when compared to 24-hr real-time monitoring that SCADA provides). Additionally, the Arizona Corporation Commission has indicated on the City's past pipeline safety audits that automated, real-time monitoring, such as SCADA, is the preferred method of system pressure monitoring and focused on ensuring manual pressure monitoring is converted to SCADA.

#### Discussion

The proposed new Gas SCADA System uses a pole-mounted, solar-powered controller with an antenna to convey information to the Utility Control Center located at the Charles Luster building. The poles will be mounted near the existing regulator stations per design

and safety requirements. Once underway, construction is anticipated to last no more than 6 months.

#### **Alternatives**

An alternative would be to not construct the new SCADA equipment at the various locations. This is not recommended because the monitoring would need to continue manually which has higher operational costs, higher safety concerns and potential compliance issues.

### **Fiscal Impact**

The total authorized amount recommended for this project is \$376,625.80, based upon the lowest responsible bid of \$342,386.80, plus an additional \$34,239.00 (10%) as a change order allowance. This change order allowance will only be utilized for approved change orders.

This project is funded by 2014 gas bonds.

#### **Coordinated With**

The Energy Resources Department concurs with this recommendation.

# CITY OF MESA MESA, ARIZONA

# **Gas Scada System Improvements Phase 3**

## PROJECT NO. C01886PH3

Tabulation of Bids Received, Thursday, August 12th, 2021, at 1:00 PM.

ENGINEER'S ESTIMATE	\$372,600.00
1. Green Tanner Industrial Construction	\$342,386.80
2. Alliance Service and Control Specialists, Inc.	\$349,551.46
3. Swain Electric, Inc.	\$361,621.00
4. Sturgeon Electric Company, Inc.	\$644,615.00