



City Council Report

Date: August 24, 2009
To: City Council
Through: Jack Friedline, Deputy City Manager
From: Beth Huning, City Engineer
Subject: Gas SCADA System
Various Locations in Mesa and Pinal County
City Project 01-886-001
Council Districts 1, 3 and 6

Strategic Initiatives



Purpose and Recommendation

The purpose of this report is to provide information to the Council on the results of the bids received for the Gas SCADA (Supervisory Control and Data Acquisition) System (See Attachment "A" for project locations).

It is recommended that the Council award this project to the low bidder, DutchMasters Electric, Inc. for a total award of \$165,020.94.

Background

The City's natural gas utility is required to monitor system pressures at the outlets of all regulator stations as part of the operations and Federal code requirements. The pressure monitoring equipment is commonly referred to as SCADA (Supervisory Control and Data Acquisition). In the past, City crews installed the SCADA equipment as it was required. With the large amount of development in the last several years, City crews were not able to meet the requirements to install additional SCADA equipment. As an outcome of the 2009 pipeline safety audit conducted by the Arizona Corporation Commission (ACC), the City was given until February 2010 to begin construction of the nine remaining sites requiring SCADA. The successful start of construction of the sites will be a highlighted focus of the ACC 2010 audit of the City's natural gas system.

Discussion

The Gas SCADA System as designed uses a pole-mounted, solar-powered controller with an antenna to radio information to the Utility control room located at the Energy Resources Department. The poles will be mounted near the existing regulator stations and this configuration is consistent with other City SCADA installations.

Alternatives

One alternative would be to use utility power to run the instrumentation, and existing telephone lines to provide communication. This would require payment of monthly service fees for each site and the installed cost would be only marginally lower for installation. It was determined that the City would have a lower total operating cost with the system as designed.


Construction of a monitoring system for the City owned Gas Utility is a regulatory requirement.

Fiscal Impact

The recommended total award of this project is \$165,020.94, which consists of a low bid of \$150,019.04 plus an additional \$15,001.90 (10% allowance for change orders). This project is funded from the FY 09/10 Gas Bond Capital Program.

Coordinated With

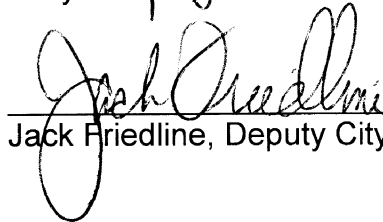
The Energy Resources Department concurs with this recommendation.



Kelly Jensen, Assistant City Engineer



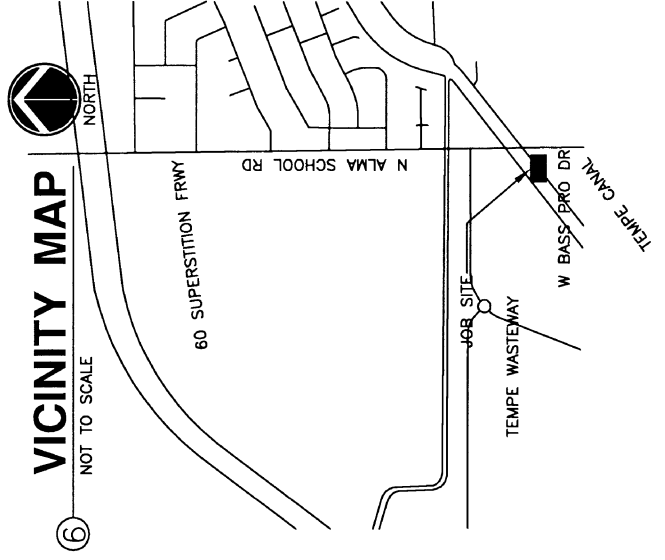
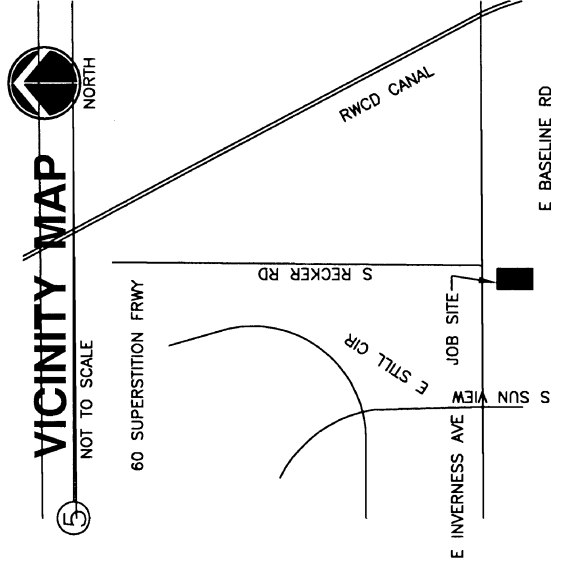
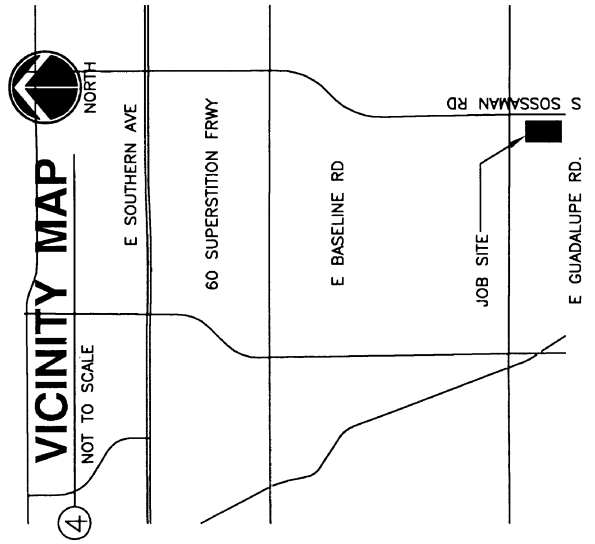
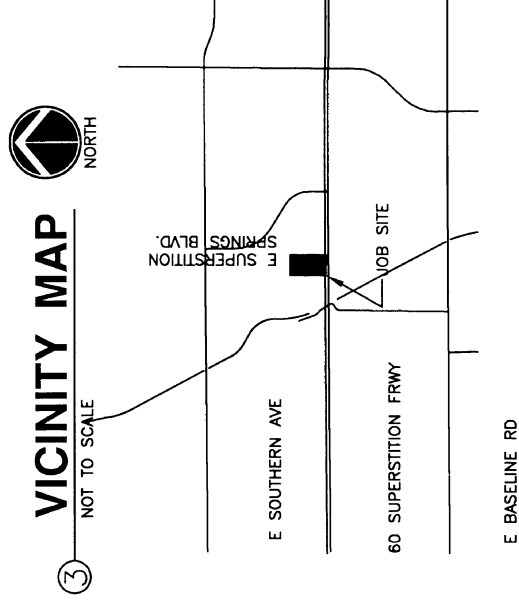
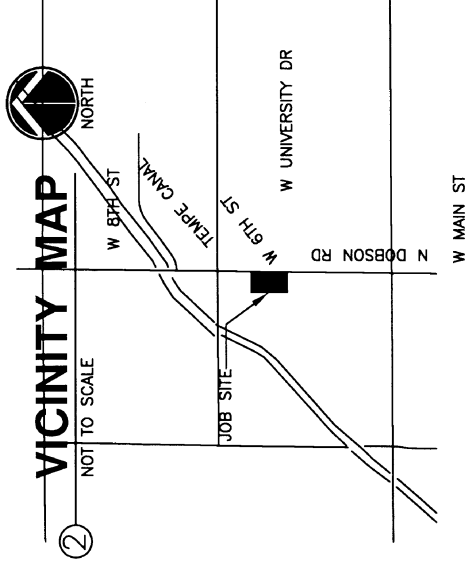
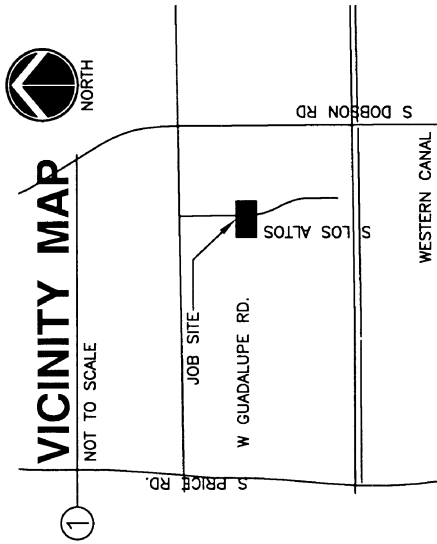
Beth Huring, City Engineer



Jack Friedline, Deputy City Manager

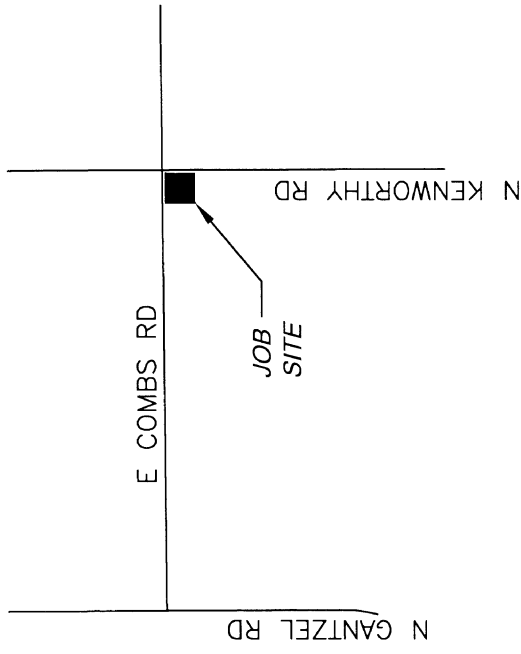
CITY OF MESA SITES

ATTACHMENT A PAGE 1 OF 2



VARIOUS SITES PINAL COUNTY, ARIZONA

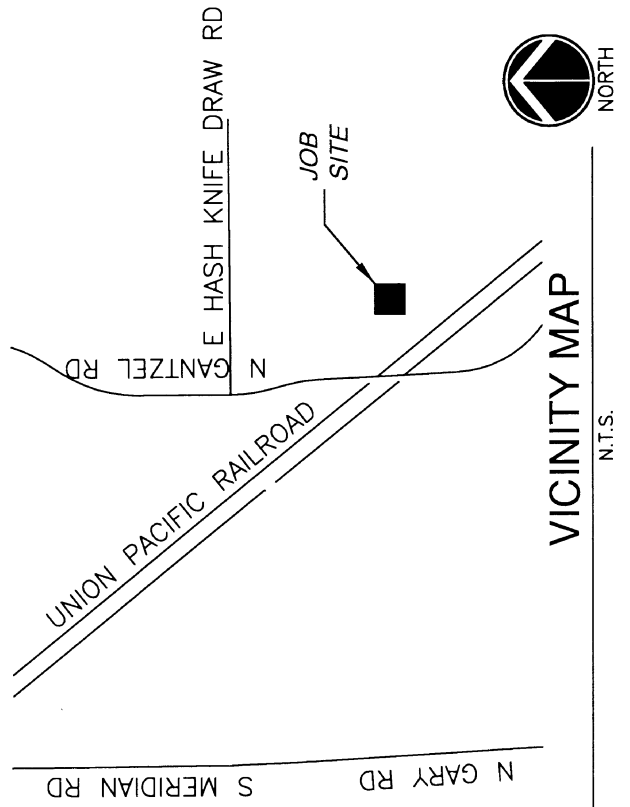
ATTACHMENT A
PAGE 2 OF 2



VICINITY MAP

N.T.S.

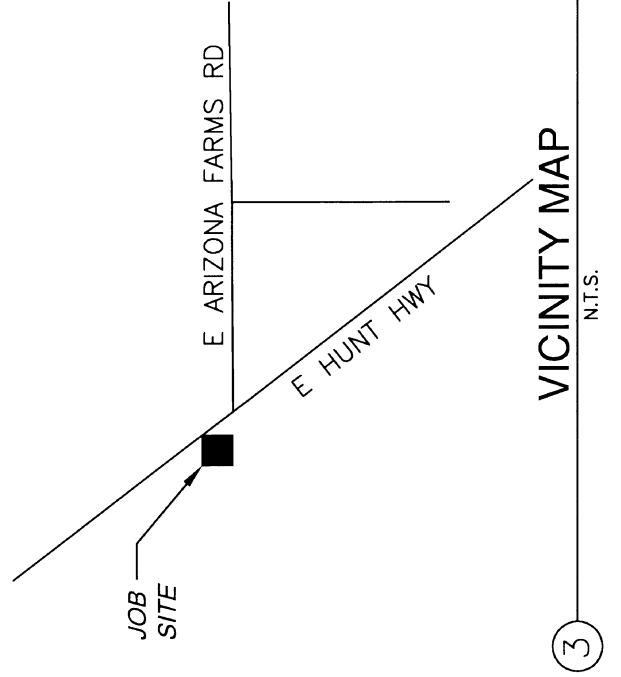
1



VICINITY MAP

N.T.S.

2



VICINITY MAP

N.T.S.

3

CITY OF MESA
MESA, ARIZONA

GAS SCADA SYSTEM

PROJECT NO. 01-886-001

Tabulation of Bids Received, Thursday, July 23, 2009, at 1:30 P.M.

ENGINEER'S ESTIMATE	\$99,500.00
1. DutchMasters Electric Inc.	\$150,019.04
2. Alliance Service and Control Specialist Inc.	\$226,587.00
3. Arizona Pipeline Company	\$312,420.00
4. K and F Electric Inc.	\$396,750.00

Sturgeon Electric Company Inc. – Bid Rejected – Bid Schedule Not Completed
Rosendin Electric – Bid Not Read – Did Not Acknowledge Addenda