



AGENDA ITEM 5k
DATE 1-12-09

City Council Report

Date: January 12, 2009
To: City Council
Through: Jack Friedline, Deputy City Manager
From: Beth Huning, City Engineer
Subject: 69kV Rebuild Project, University Drive from Extension to Stapley Drive
Project No. 06-025-001
Council District #'s 1, 2, and 4

Purpose and Recommendation

The purpose of this report is to provide information to the Council on the results of the bids received for Project No. 06-025-001, 69 kilovolt (kV) Rebuild Project, University Drive from Extension to Stapley Drive. The area included in this project is shown in the attached Exhibit "A". It is recommended that Council award this project to the low bidder, Sturgeon Electric Company, Inc. for a total award of \$712,539.41.

Background

The Electric Division maintains age records for the existing power poles in order to ensure the reliability of the electric system. A visual inspection is conducted on a regular basis to assess power pole condition. Many of the existing poles along University Drive between Extension and Stapley Drive were installed before 1970. These poles are at or near their expected service life of 40 years and require replacement.

Additionally, the City experienced a severe wind storm (micro-burst) in July 2002 and several of the wood poles failed. City Staff consulted with Salt River Project to develop a methodology to minimize future losses and improve the integrity of the system. To limit damage during severe wind storms and micro-bursts, "stopper poles" are installed periodically to prevent and/or limit the number of poles that may be knocked down in these severe storms. A stopper pole is a steel pole installed every 4th or 5th in the line.

Discussion

This project includes the replacement of 54 wood poles with 41 concrete poles and 13 steel poles. The steel poles will act as the "stopper poles" to minimize catastrophic failure during severe wind storms (micro-bursts). Also included in the work is the installation of 2.5 miles of new conductors (wires) to help improve the capacity and efficiency of the electric system. Materials for this project are being provided by the Electric Division.

The engineering estimate was substantially higher than the bid due to the fact that the city hasn't bid a similar electrical project in the past and contractors are bidding aggressively to be able to keep employees working as the economy has slowed the past couple of years. Staff met with the low bidder, Sturgeon Electric Company, after the bid was submitted to confirm that no mistakes were made in the bid submittal documents.

Community Impact – This project will result in improved reliability of the electric system and reduced outages during severe wind storms due to downed power lines. Impacts are anticipated to include construction noise and dust, and temporary traffic and access restrictions. The work has been phased to minimize impacts to traffic, but there will be lane closures (restricted traffic) during the work day. Construction is anticipated to be completed from Country Club Drive to the east side of Center Street by the time Spring Training begins in March. Once work is started, the project is anticipated to be completed in one-hundred twenty (120) calendar days.

Alternatives

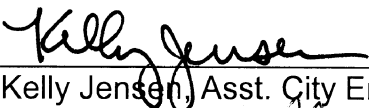
An alternative to this project would be to not replace the existing poles and conductors. This would mean that the existing facilities would continue to age and could result in more repairs and outages for the electric customers in this area. This alternative is not recommended.

Fiscal Impact


The recommended total award of this project is \$712,539.41, which consists of a low bid of \$647,763.10 plus an additional \$64,776.31 (10% allowance for change orders). Funding is available from the approved FY 08/09 Electric Bond Program.

Coordinated With

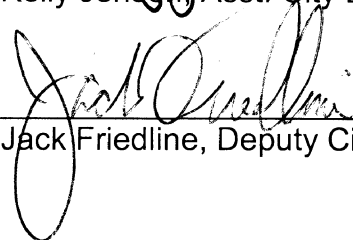
The Utilities Department (Electric Division) concurs with this recommendation.



Kelly Jensen, Asst. City Engineer



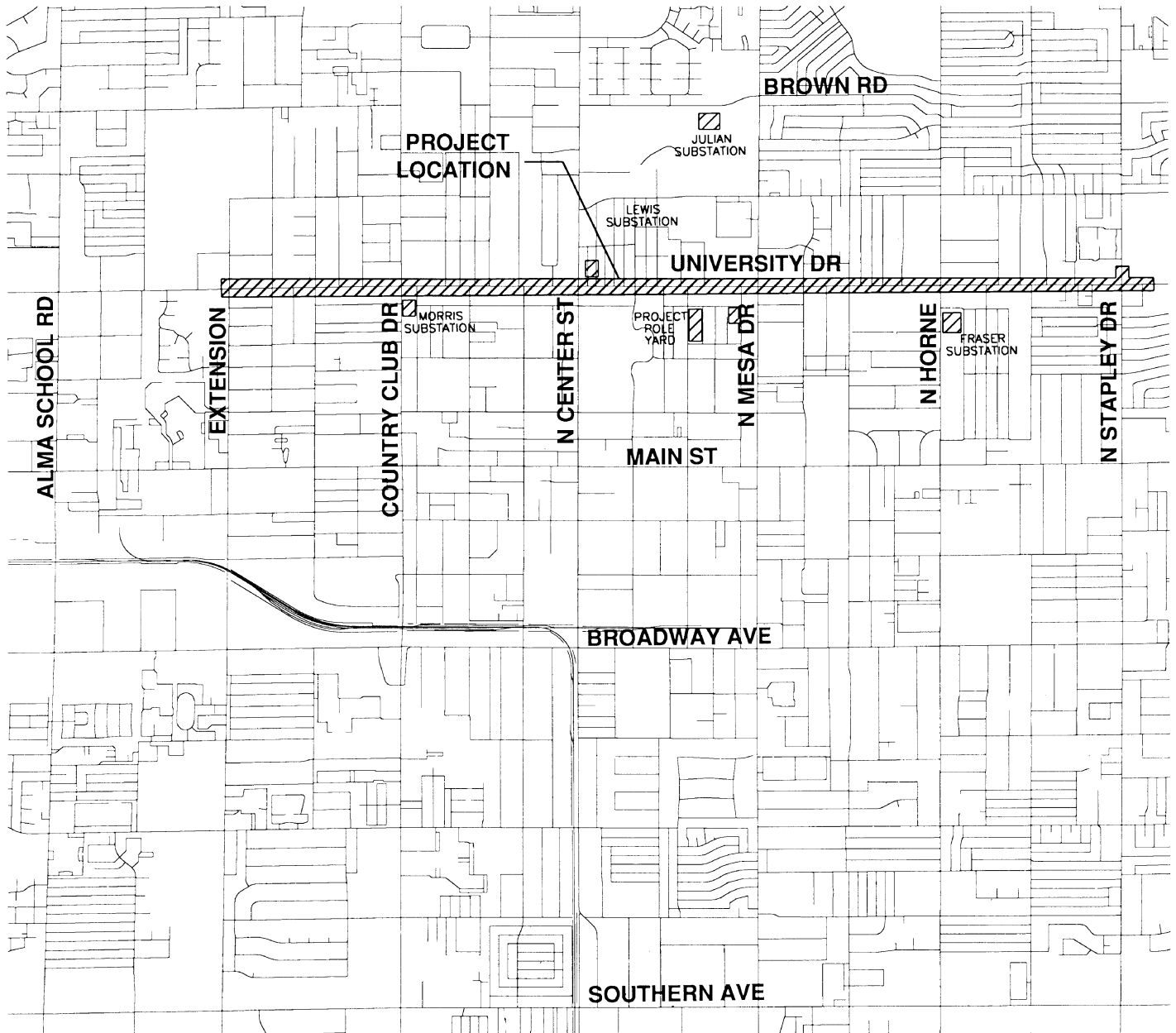
Beth Hoving, City Engineer



Jack Friedline, Deputy City Manager



EXHIBIT "A"



DATE: 12/19/08; 06-025-001 69 KV REBUILD - UNIVERSITY FROM EXTENSION TO STAPLEY; CAD\VICINITY COUNCIL MAP.DWG

PROJECT LOCATION MAP 69 KV REBUILD PROJECT - UNIVERSITY DR. FORM EXTENSION TO STAPLEY DR. PROJECT NO. 06-025-001



Budget Information:
FY 08/09 Budget, Electric Bond Program

CITY OF MESA
MESA, ARIZONA

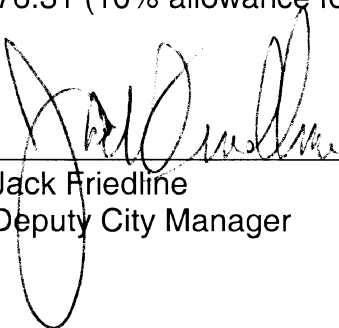
69kV REBUILD PROJECT
UNIVERSITY DRIVE FROM EXTENSION TO STAPLEY DRIVE

PROJECT NO. 06-025-001

Tabulation of Bids Received, Thursday, December 18, 2008, at 2:00 P.M.

ENGINEER'S ESTIMATE	\$1,404,500.00
1. Sturgeon Electric Company, Inc.	\$ 647,763.10
2. NPL (Northern Pipeline) Construction Company	\$ 989,757.00
3. Wilson Utility Construction Company	\$1,111,098.91
4. Klondyke Construction, LLC	\$1,121,280.00
5. Henkels & McCoy, Inc.	*Not Read

Recommend award to low bidder, Sturgeon Electric Company, Inc., in the amount of \$647,763.10 plus an additional \$64,776.31 (10% allowance for change orders) for a total award of \$712,539.41.



Jack Friedline
Deputy City Manager

* No Price Given on one bid line item