



AGENDA  
ITEM 49  
DATE 7-8-09

# City Council Report

**Date:** July 8, 2009  
**To:** City Council  
**Through:** Jack Friedline, Deputy City Manager  
**From:** Elizabeth Huning, City Engineer  
**Subject:** Electric Circuit Conversion - Circuit 101 Undergrounding  
City Project No. 02-384-004  
Council District 2

## Purpose and Recommendation

The purpose of this report is to provide information to the Council on the results of the bids received for the Electric Circuit Conversion – Circuit 101 Undergrounding. It is recommended that the Council award this project to the low bidder, Utility Construction Company, Inc., for a total award of \$117,021.03.

## Background/Discussion

The Energy Resources Department, Electric Division, has ongoing electric distribution circuit voltage conversion projects. There is a service territory island located approximately one-quarter mile east of Stapley Drive, roughly bounded by Main Street, Harris Drive, 2<sup>nd</sup> Street and Barkley, that is served by a 4 kilovolt (kV) circuit known as Circuit 101. This circuit is being upgraded from a 4 kV to 12 kV power line, which requires the distribution line to be upgraded.

This overhead line segment, which is the focus for this project, currently shares a series of shared poles with Salt River Project (SRP) Electric, Cox Cable and Qwest Telephone lines. To properly increase the voltage rating, additional clearance and separation is required from the SRP electric line. The only way to provide the needed clearance is to underground this electric line segment.

Community Impact – This project will remove segments of the overhead electric line crossing Stapley Drive at 1<sup>st</sup> Street, Lazona Drive at the 1<sup>st</sup> Place, and Barkley just north of 1<sup>st</sup> Place. No public electric service interruptions are anticipated. Temporary impacts will include traffic restrictions on Stapley Drive and on 2<sup>nd</sup> Street to accommodate the boring process. The total project duration is anticipated to be forty-five (45) calendar days.

**Alternatives**

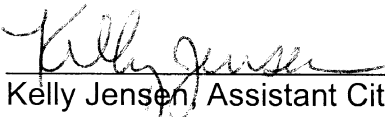
One alternative would be to rebuild the distribution line segment utilizing taller poles with dual cross arms to provide necessary clearance and separation between City and SRP facilities. City, SRP, Cox and Qwest facilities would transfer to the new pole. This is not recommended, since pole line maintenance and separation from SRP facilities will continue to require inspection and operational monitoring from Electric staff requiring additional funds.

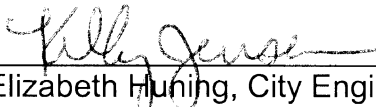
**Fiscal Impact**

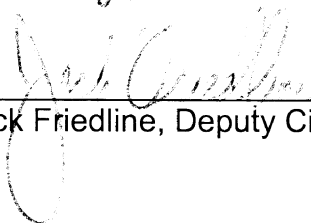
The recommended total award amount for this project is \$117,021.03, based on the low bid of \$106,382.75 plus an additional \$10,638.28 (10% allowance for change orders). Funding is available in the Adopted FY09/10 Electric Bond Capital Program.

**Coordinated With**

The Energy Resources Department (Electric) concurs with this recommendation.

  
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Kelly Jensen, Assistant City Engineer

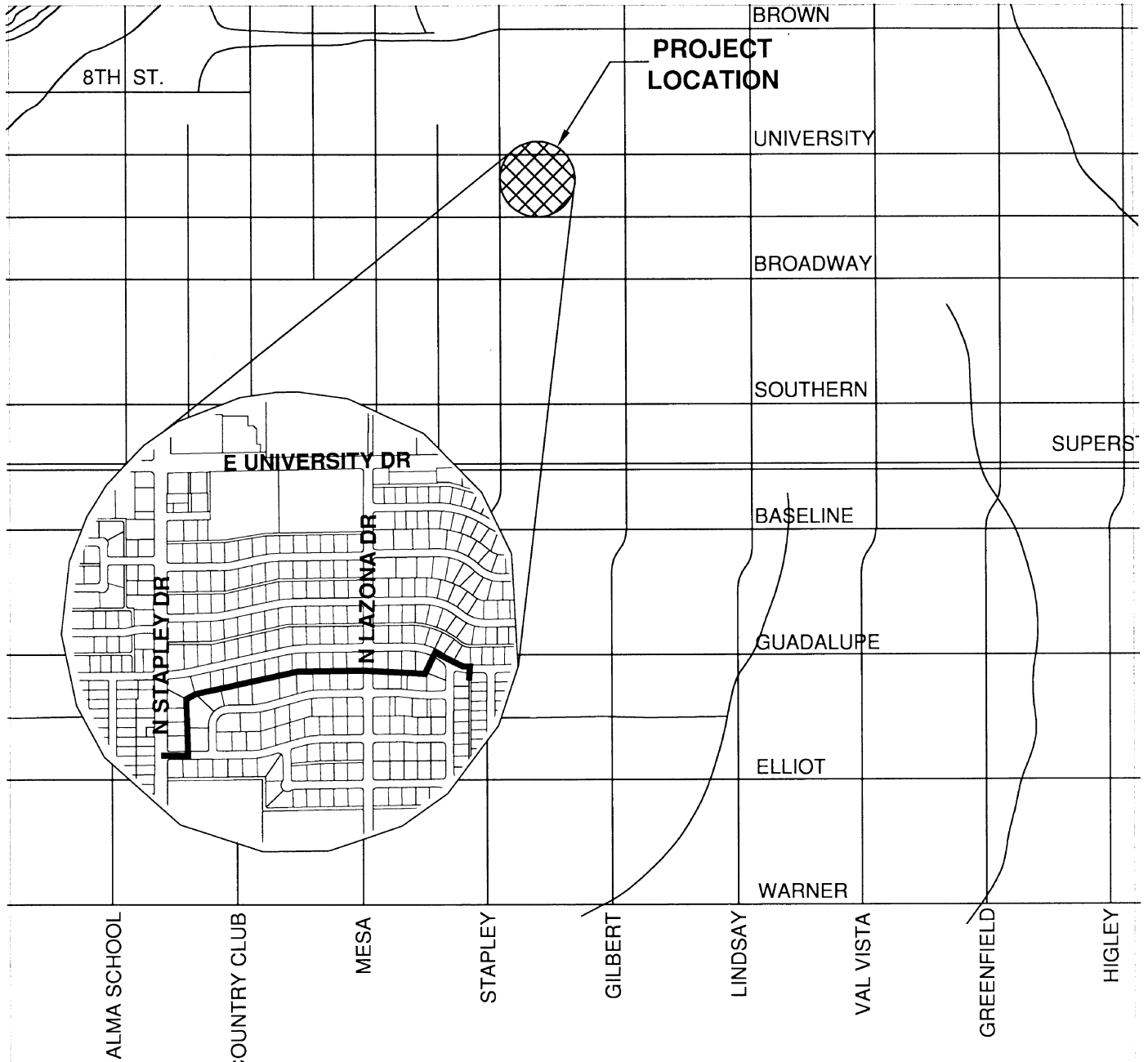
  
\_\_\_\_\_  
for Elizabeth Huning, City Engineer

  
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Jack Friedline, Deputy City Manager



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# EXHIBIT "A"



**ELECTRIC CIRCUIT 101**  
**OVERHEAD TO UNDERGROUND CONVERSION**  
 PROJECT NO. 02-384-004



CITY OF MESA  
MESA, ARIZONA

ELECTRIC CIRCUIT CONVERSION – CIRCUIT 101 UNDERGROUND

**PROJECT NO. 02-384-004**

Tabulation of Bids Received, Thursday, June 11, 2009, at 1:00 P.M.

<b>ENGINEER'S ESTIMATE</b>	<b>\$132,087.78</b>
1. Utility Construction Company Inc.	\$106,382.75
2. Pauley Construction Inc.	\$125,225.05
3. Underground Utilities Inc.	\$130,092.24
4. Sturgeon Electric Company Inc.	\$133,220.15
5. Kimbrell Electric Inc.	\$136,561.57
6. Kleven Construction	\$137,514.00
7. Paramount Designs Inc., dba PDI Construction	\$138,732.09
8. The Fishel Company	\$152,105.33
9. NPL Construction Company	\$160,414.28
10. Commonwealth Electric Company of the Midwest	\$192,147.75
11. Rural Electric Inc.	\$200,000.00