



City Council Report

Date: October 19, 2009
To: City Council
Through: Jack Friedline, Deputy City Manager
From: Elizabeth Huning, City Engineer
Subject: Wastewater Diversion Structures Rehabilitation
Ellsworth Road and Baseline Road
56th Street and Broadway Road
City Project 01-687-004
Council Districts 5 & 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 Wastewater Diversion Structures Rehabilitation (See Exhibit "A" for project locations).

It is recommended that the Council award this project to the low bidder, JPCI Services, for a total award of \$95,027.90.

Background

The City of Mesa maintains approximately 30 wastewater diversion structures in our wastewater collection system which are typically constructed on larger wastewater collection lines in the system. Diversion structures give the City the flexibility to route wastewater from one treatment plant or main line to another treatment plant or main line by using gates to divert flow. This flexibility is very useful during times when treatment plants or sewerlines may be off line due to service or maintenance. The majority of these structures are constructed of concrete and due to the corrosive nature of wastewater, concrete will deteriorate over time. The deterioration of the concrete can affect the structural integrity of the underground vault and potentially, the street above. City Staff reviews the diversion structures annually and identifies those that are deteriorated to the point where they must be rehabilitated with repairs and coatings to maintain their operability and extend their useful life.

Community Impact – Temporary impacts to the area will include traffic restrictions and the possibility of undesirable odor. Once work is started, project completion is anticipated within thirty (30) calendar days.

Discussion

This project will rehabilitate two of the City's diversion structures; Ellsworth Road and Baseline Road, and 56th Street and Broadway Road. The existing concrete will be cleaned, and any structurally deficient concrete removed. New concrete is then bonded to the existing concrete, restoring the structure to its original thickness. The manhole is coated with a corrosion resistant epoxy coating, to protect it from the wastewater.

Alternatives


An alternative would be to not proceed with this project at this time. This is not recommended, since it is more cost-effective to perform preventative maintenance than to let the diversion structure deteriorate to the point where it must be completely replaced.

Fiscal Impact

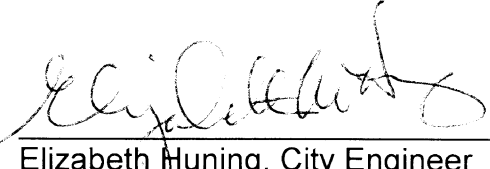
The recommended total award of this project is \$95,027.90 which consists of a low bid of \$86,389.00 plus an additional \$8,638.90 (10% allowance for change orders). This project is funded from the Approved FY 09/10 Wastewater Capital Bond Program.

Coordinated With

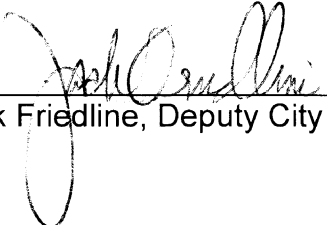
The Water Resources Department concurs with this recommendation.



Kelly Jensen, Assistant City Engineer



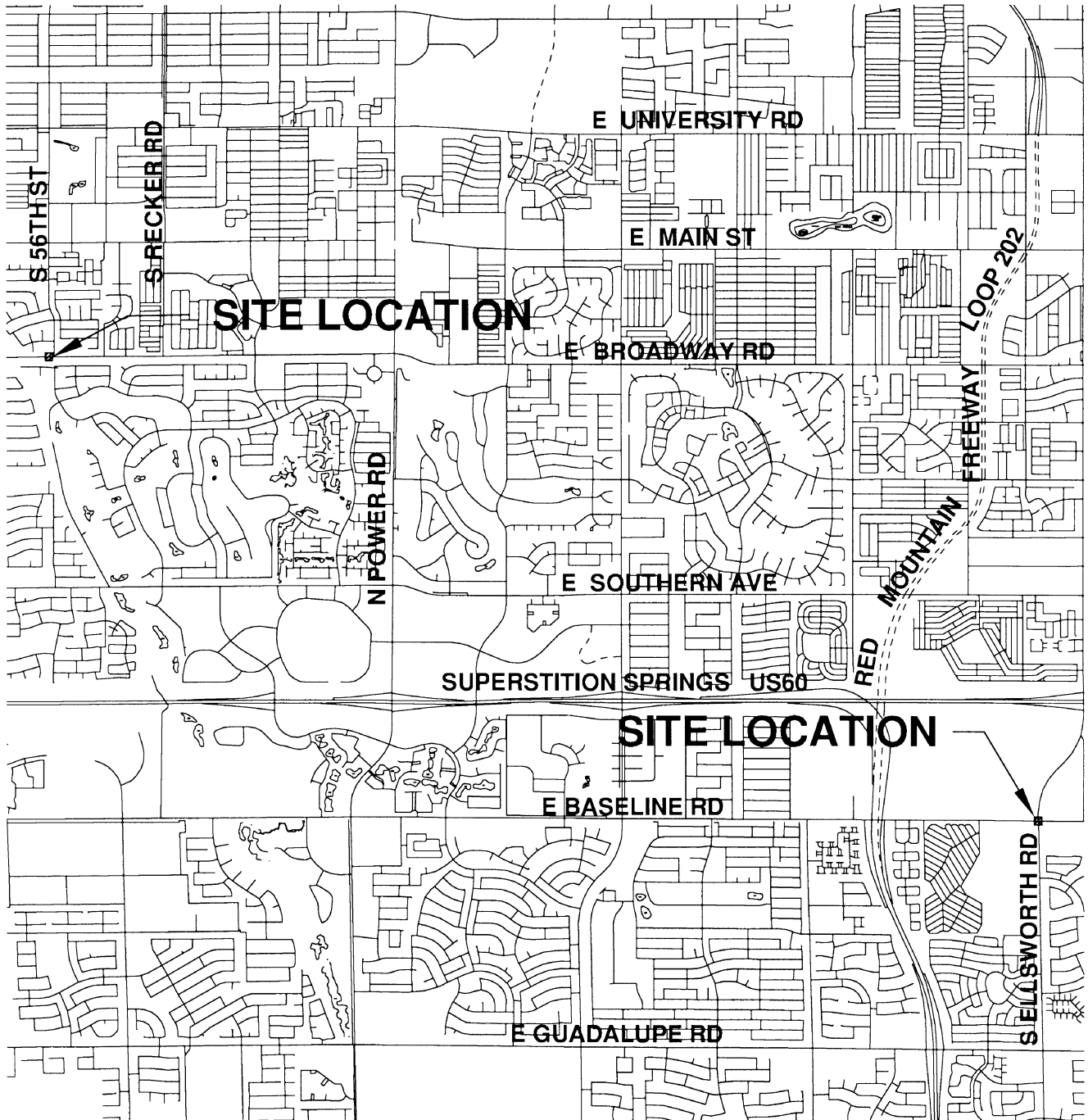
Elizabeth Huning, City Engineer



Jack Friedline, Deputy City Manager



EXHIBIT "A"



DATE SAVED: 9/23/09 1:\01-687-004 DIVERSION STRUCTURE AT BASELINE & ELLSWORTH\CAD\COUNCIL MAP.DWG

PROJECT LOCATION MAP WASTEWATER DIVERSION STRUCTURES REHABILITATION ELLSWORTH ROAD AND BASELINE ROAD 56TH STREET AND BROADWAY ROAD PROJECT NO. 01-687-004



CITY OF MESA
MESA, ARIZONA

WASTEWATER DIVERSION STRUCTURES REHABILITATION
ELLSWORTH/BASELINE AND 56TH ST./BROADWAY

PROJECT NO. 01-687-004

Tabulation of Bids Received, Thursday, September 17, 2009, at 2:00 P.M.

ENGINEER'S ESTIMATE	\$82,600.00
1. JPCI Services	\$86,389.00
2. Sahuaro Pipeline Corp.	\$99,090.00
3. Socal Pacific Construction	\$140,401.00
4. Caymus Corporation – Bid Not Read – Bid Schedule not complete	
5. Cooper Bates LLC – Bid Rejected – Insufficient Experience	
6. RK Sanders Inc. – Bid Rejected – No License # provided	