



City Council Report

Date: March 23, 2009
To: City Council
Through: Jack Friedline, Deputy City Manager
From: Beth Huning, City Engineer
Subject: Southeast Water Reclamation Plant Bar Screen Installation
6308 E. Baseline Road
Project No. 07-012-001
Council District No. 6

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. 07-012-001, Southeast Water Reclamation Plant Bar Screen Installation, 6308 E. Baseline Road. 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, MGC Contractors, Inc. for a total award of \$948,878.70.

Background

The Southeast Water Reclamation Plant (SEWRP), located at 6308 E. Baseline Road was originally constructed in 1984 as a one (1) million gallon per day facility. Since the original construction, numerous plant improvements and expansions have been made culminating with the 1998 expansion to a capacity of eight (8) million gallons per day. Solids from this plant were originally discharged to the Baseline Road Interceptor (BRI) for treatment at the Sub-Regional Operating Group (SROG) 91st Avenue Treatment Plant on the west side of Phoenix. When the City's Greenfield Water Reclamation Plant (GWRP) came on line, new facilities were installed to pump the solids from the SEWRP to the City's new GWRP for treatment.

The existing SEWRP was designed with a grinder at the entrance of the plant to shred rags and other debris before entering the treatment process. This was adequate when the solids were discharged to the BRI. However, now that the solids are being directed to the City's GWRP, the debris must be removed so that it does not clog pumps and create maintenance challenges.

In the interim until new screens could be installed, the Plant staff at the SEWRP installed an interim bar screen to remove this debris. While these screens are removing a significant portion of the debris and have reduced the problems with the solids pumps, they require significant staff oversight to maintain effective operation and they limit the reliability of the treatment system due to their temporary nature.

Discussion

The interim bar screens will be replaced with an automated screening system, which will minimize staff operations and maintenance involvement and improve system reliability. The automated screening system consists of mechanical bar screens, a conveyor, compactors and a dumpster for collection of the screened materials.

Community Impact – Temporary impacts to the area will include construction noise and dust, however, the work is principally contained on the City’s plant site. The site is surrounded by the Superstition Springs Golf Course. Once work is started, project completion is anticipated within 90 calendar days.

Alternatives

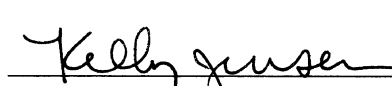
An alternative is to not upgrade the facility, however, this is not recommended since the existing facility is currently experiencing problems with the interim bar screens and a permanent solution is needed.

Fiscal Impact

The recommended total award of this project is \$948,878.70 which consists of a low bid of \$862,617.00 plus an additional \$86,261.70 (10% allowance for change orders). Funding is available from the approved FY 08/09 Wastewater Bond Program.

Coordinated With

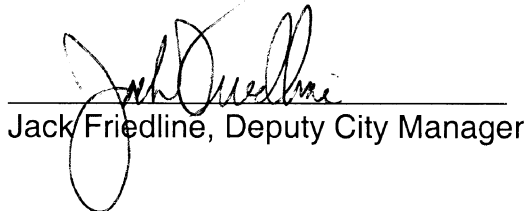
The Water Resources Department concurs with this recommendation.



Kelly Jensen, Asst. City Engineer



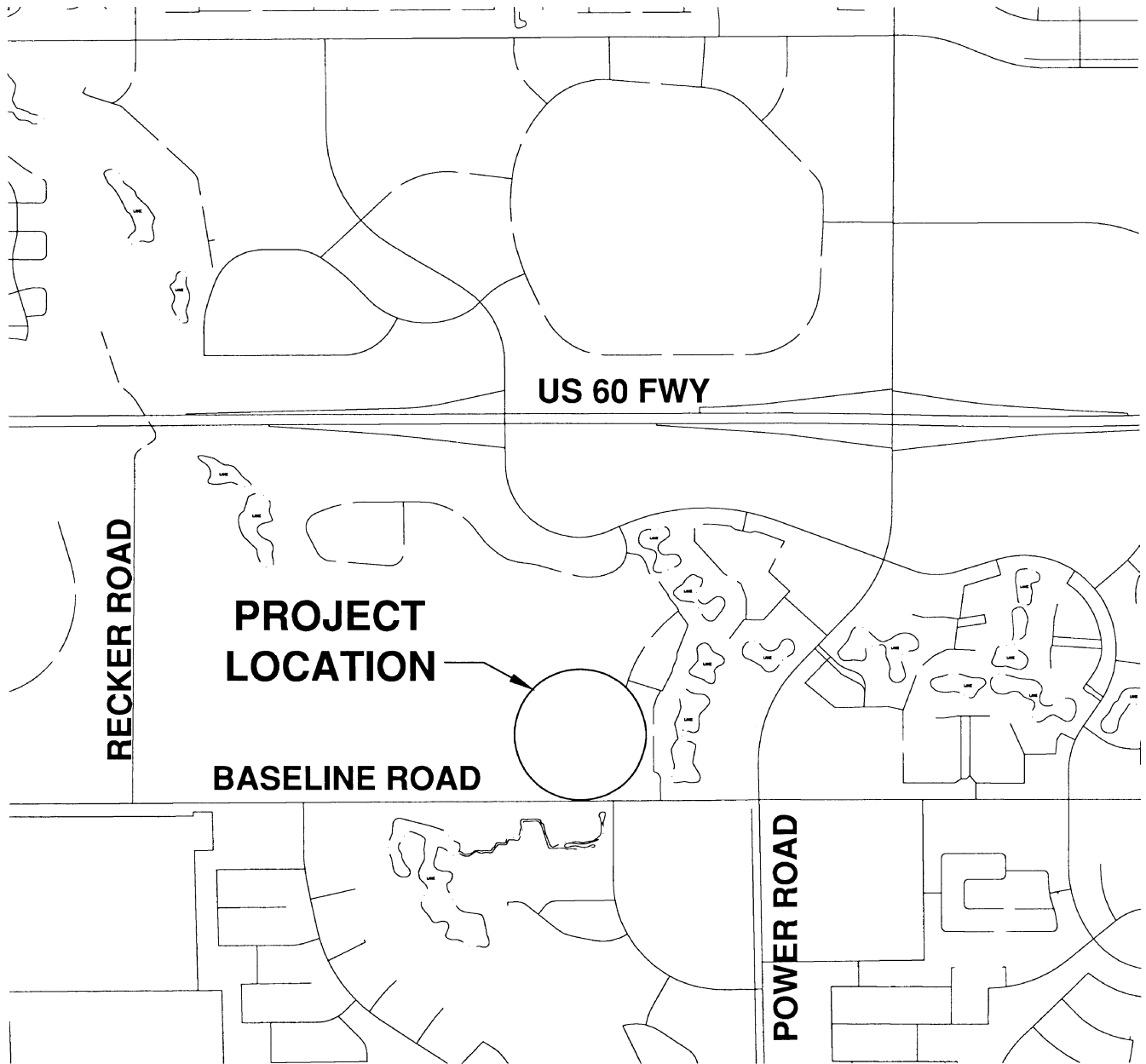
Beth Huning, City Engineer



Jack Friedline, Deputy City Manager



EXHIBIT "A"



**PROJECT LOCATION MAP
BAR SCREEN INSTALLATION
SOUTHEAST WATER RECLAMATION PLANT
6308 E. BASELINE ROAD
PROJECT NO. 07-012-001**



Budget Information:
FY 08/09 Wastewater Bond Program

CITY OF MESA
MESA, ARIZONA

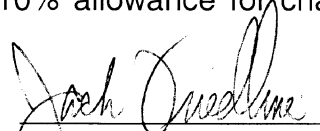
SOUTHEAST WATER RECLAMATION PLANT
(6308 E. BASELINE RD.)
BAR SCREEN INSTALLATION

PROJECT NO. 07-012-001

Tabulation of Bids Received, Thursday, February 19, 2009, at 2:30 P.M.

ENGINEER'S ESTIMATE	\$1,266,000.00
1. MGC Contractors Inc	\$862,617.00
2. Currier Construction Inc	\$866,000.00
3. RDH Environmental Services LLC	\$886,627.00
4. Garney Construction	\$913,923.00

Recommend award to low bidder, MGC Contractors Inc, in the amount of \$862,617.00 plus an additional \$86,261.70 (10% allowance for change orders) for a total award of \$948,878.70.



Jack Friedline
Deputy City Manager