

# STAFF REPORT

DATE: September 12, 2006

TO: Water/Sewer Committee

FROM: Lonnie Thibodeaux, Interim Water Utilities Director

SUBJECT: **RECOMMEND AUTHORIZATION TO AWARD A CONTRACT FOR THE CONSTRUCTION OF THE RAW WATER PIPELINE FOR WELLS 10 AND 11 PROJECT AND APPROVAL OF THE PROFESSIONAL SERVICES AGREEMENT WITH RBF CONSULTING FOR CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES**

## **SYNOPSIS**

Staff recommends that the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve an award of contract for the construction of the Raw Water Pipeline for Wells 10 and 11 to SEMA Construction of Lake Forest, in an amount not to exceed \$2,086,300; approve a professional services agreement with RBF Consulting of San Diego, in an amount not to exceed \$305,370 for construction management and inspection services during construction of the project; and authorize the City Manager to execute the agreements.

## **BACKGROUND**

The Mission Basin Groundwater Purification Facility, located at 215 Fireside Drive (Exhibit A), was originally constructed and put into operation in 1994. The original facility produced 2.2 million gallons per day (mgd) of brackish groundwater by use of a reverse osmosis treatment process. A subsequent expansion project was to bring the capacity of the plant up to 6.37 mgd. This expansion, accepted by the City Council in February 2003, consisted of three additional production wells, nine monitoring wells, a high and low pump station, an additional reverse osmosis train and other infrastructure-related work. All work was satisfactorily completed with the exception of the production wells which, when drilled, did not produce sufficient quantities for production.

On June 4, 2004, City Council approved the professional services agreement with Infrastructure Engineering Corporation for the preparation of plans and specifications. In October 1998, City Council authorized a joint participation agreement between the City of Oceanside, San Diego County Water Authority (Authority) and the Metropolitan Water District (MWD) for participation in the Groundwater Recovery Program (GRP). As part of the GRP study, Authority has drilled 11 exploratory wells to map the Mission Basin for possible future use.

## **ANALYSIS**

As part of the cooperative drilling project with the Authority, Oceanside had the Authority analyze up to five sites with an emphasis on three that can replace the poorly performing well sites 6, 7 and 8. Three of the sites are within a mile of the Mission Basin Groundwater Facility with one being on the plant site. The one at the plant site has recently been drilled by the Authority and during the test pumping produced up to 2,220 gallons per minute. The other two sites are scheduled to be drilled within the next few months. The City must have a raw water pipeline designed and constructed to utilize these new wells.

On August 16, 2006, four bids were received and opened for the Raw Water Pipeline for Wells 10 and 11 project. The apparent low bidder is SEMA Construction, of Lake Forest, with a bid in the amount of \$2,086,300. Staff has reviewed the bid submitted by SEMA Construction and find that its bid bond and references are in accordance with City standards. The engineer's estimate to construct the project was \$2,300,000.

To properly manage these projects during construction, the services of a construction management and inspection support team are required. On June 27, 2006 staff solicited proposals from twelve (12) engineering firms (Exhibit B) to provide construction management and inspection services during construction of this project. The firms were selected from a list compiled by the City of Oceanside's Engineering Department using the City's selection procedures for professional services. Included in the solicitation were all Oceanside firms that provide these services.

On July 20, 2006, two (2) proposals and three (3) letters declining participation in the request for proposal solicitation were received by the Water Utilities Department. In accordance with the City's procedure, a panel was selected to evaluate the proposals. The panel unanimously recommended that RBF Consulting of San Diego be selected to provide the construction management and inspection services.

RBF Consulting' construction management and inspection duties will be to ensure that the project is constructed according to the plans and specifications, on time and under budget. Additional duties to be performed include day to day monitoring and inspection of the work; geotechnical engineering and inspection services; surveying; special inspections as required; preparation of daily, weekly and monthly reports; processing of proposed change orders; processing submittals and requests for information; maintenance of logs for all correspondence, submittals, requests for information and change orders; attending weekly and monthly progress meetings; and generating and submitting detailed as-built construction drawings.

## **FISCAL IMPACT**

In the adopted budget for Fiscal Year 2006-2007, City Council approved an appropriation of \$4,720,709 for the Mission Basin Groundwater Purification Facility Expansion. The engineer's estimate to construct the project is \$2,300,000, so adequate funds are available for the project.

## **CITY ATTORNEY'S ANALYSIS**

The City Attorney's office is reviewing the documents.

## **INSURANCE REQUIREMENTS**

The City's standard insurance requirements will be met.

## **COMMISSION OR COMMITTEE REPORT**

Does not apply.

## **RECOMMENDATIONS**

Staff recommends that the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve an award of contract for the construction of the Raw Water Pipeline for Wells 10 and 11 to SEMA Construction of Lake Forest, in an amount not to exceed \$2,086,300; approve a professional services agreement with RBF Consulting of San Diego, in an amount not to exceed \$305,370 for construction management and inspection services during construction of the project; and authorize the City Manager to execute the agreements.

PREPARED BY:

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Greg Blakely  
Administrative Manager

Exhibit A - Site Map  
Exhibit B - Bid Opening Results  
Exhibit C - Request for Proposal Mailing List

DATE: September 12, 2006

TO: Water/Sewer Committee

FROM: Lonnie Thibodeaux, Interim Water Utilities Director

SUBJECT: **AUTHORIZATION TO AWARD A CONTRACT FOR THE CONSTRUCTION OF THE LORETTA STREET WATERLINE REPLACEMENT PROJECT AND APPROVAL OF THE PROFESSIONAL SERVICES AGREEMENT WITH INFRASTRUCTURE ENGINEERING CORPORATION FOR CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES**

### **SYNOPSIS**

Staff recommends that the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve an award of contract for the construction of the Loretta Street Waterline Replacement to Ross A. Guy & Son, Inc. of Fallbrook, in an amount not to exceed \$1,035,694; approve a professional services agreement with Infrastructure Engineering Corporation of Oceanside, in an amount not to exceed \$117,190 for construction management and inspection services during construction of the project; and authorize the City Manager to execute the agreements.

### **BACKGROUND**

In April 2005, the City of Oceanside experienced a break in a critical line which serves the Francine Villa area (Exhibit A). The pipeline could not be repaired and/or constructed in the same alignment due to environmental and access issues. Therefore, the City designed a new 12-inch waterline in Loretta Street that is more accessible to City maintenance crews, and the project will be constructed with more reliable materials and construction methods. In order to complete this design, the City secured an encroachment permit with Caltrans with several waivers. The permit waived the requirement for a casing and will allow the City to make a longitudinal encroachment across Highway 76. These waivers drastically lower the cost to the City by \$540,000 and lowered the risk of failure of the horizontal directional drilling (HDD) during construction due to geotechnical constraints for the HDD installation.

Since the 1,450 linear feet of existing 12-inch steel pipe that failed is not currently operational, the only pipeline serving the Harbor and the Francine Villas development is an 8-inch waterline. This project will replace the failed 12-inch pipeline and serve as the primary water connection line to the Francine Villas development. Currently, the Francine Villas and Harbor areas do not have a looped water system and are relying on the smaller 8-inch back-up pipeline as the only water supply line. This is the reason for the urgency of this project.

## **ANALYSIS**

The main portion of the project is approximately 1,200 linear feet of 12-inch high density polyethylene (HDPE) pipe which will be installed using the HDD method. The HDD component of the project will be drilled from the north side of Loretta Street to the south of Highway 76 onto the paved portion of Loretta Street. The HDPE pipe for the directional drill will be assembled, fused, tested, and pulled by HDD methods from the existing dirt road on the southwest property of Loretta Street and Highway 76. A right to enter permit has been secured for this purpose. This right to enter permit has a limited timeframe and therefore is also a driving factor for the project. The HDD alignment also goes under a private property located on the south east side of Loretta Street and Highway 76. A subterranean easement has been secured for this portion of the pipeline. The remainder of the work is all within public right-of-way. Along with the directional drill component of the project, approximately 2,604 linear feet of 12-inch waterline will be installed by conventional open-trench methods through Loretta Street on the north side of Highway 76.

The pipeline work includes chlorination, de-chlorination, hydrostatic testing, and quality testing. Other items of work include coordination with utility companies to locate facilities, excavation safety measures, making the connections to the City system, saw cutting, trench pavement and aggregate base removal and replacement, miscellaneous concrete removal and replacement, asphalt grinding and asphalt concrete overlay, traffic control, and repairing striping and markings.

Staff estimates that the construction of the Loretta Street Waterline Replacement project will take approximately 160 calendar days.

This project is exempt from the California Environmental Quality Act requirements.

On August 29, 2006, three (3) bids were received and opened for the Loretta Street Waterline Replacement project. The apparent low bidder is Ross A. Guy & Son, Inc., of Fallbrook, with a bid in the amount of \$1,035,694. Staff has reviewed the bid submitted by Ross A. Guy & Son, Inc. and find that its bid bond and references are in accordance with City standards. The engineer's estimate to construct the project was \$1,128,000.

To properly manage these projects during construction, the services of a construction management and inspection support team are required. On July 18, 2006 staff solicited proposals from twelve (12) engineering firms (Exhibit B) to provide construction management and inspection services during construction of this project. The firms were selected from a list compiled by the City of Oceanside's Engineering Department using the City's selection procedures for professional services. Included in the solicitation were all Oceanside firms that provide these services.

On August 15, 2006, one (1) proposal and two (2) letters declining participation in the request for proposal solicitation were received by the Water Utilities Department. In accordance with the City's procedure, a panel was selected to evaluate the proposal. The panel unanimously recommended that Infrastructure Engineering Corporation of Oceanside be selected to provide the construction management and inspection services.

Infrastructure Engineering Corporation's construction management and inspection duties will be to ensure that the project is constructed according to the plans and specifications, on time and under budget. Additional duties to be performed include day to day monitoring and inspection of the work; special inspections as required; preparation of daily, weekly and monthly reports; processing of proposed change orders; processing submittals and requests for information; maintenance of logs for all correspondence, submittals, requests for information and change orders; attending weekly and monthly progress meetings; and generating and submitting detailed as-built construction drawings.

### **FISCAL IMPACT**

In the adopted budget for Fiscal Year 2005-2006, City Council approved an appropriation of \$1,284,780 for the Loretta Street Waterline Replacement Project. The engineer's estimate for total project construction is \$1,128,000, so adequate funds are available for the project.

### **COMMISSION OR COMMITTEE REPORT**

The Utilities Commission will review and make its recommendation at the regular scheduled meeting on September 19, 2006

### **CITY ATTORNEY'S ANALYSIS**

The referenced documents have been reviewed by the City Attorney and approved as to form.

### **INSURANCE REQUIREMENTS**

The City's standard insurance requirements will be met.

## **RECOMMENDATIONS**

Staff recommends that the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve an award of contract for the construction of the Loretta Street Waterline Replacement to Ross A. Guy & Son, Inc. of Fallbrook, in an amount not to exceed \$1,035,694; approve a professional services agreement with Infrastructure Engineering Corporation of Oceanside, in an amount not to exceed \$117,190 for construction management and inspection services during construction of the project; and authorize the City Manager to execute the agreements.

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Exhibit A - Site Map  
Exhibit B - Bid Opening Results  
Exhibit C - Construction Management Mailing List