



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: DECEMBER 9, 2019

ITEM NO: 10

SUBJECT: BID NO. RPU-7716 FOR CONSTRUCTION OF THE GAGE 29-3R GROUNDWATER WELL REPLACEMENT PROJECT (PHASE I) WITH BEST DRILLING AND PUMP, INC., IN THE AMOUNT OF \$1,599,900 INCLUDING A 10% OR \$159,990 CHANGE ORDER AUTHORITY AND WORK ORDER NO. 1623725 FOR A TOTAL CAPITAL EXPENDITURE OF \$2,100,000

ISSUES:

Award Bid No. RPU-7716 for the construction of the Gage 29-3R Groundwater Well Replacement Project (Phase I) to Best Drilling and Pump, Inc., of Colton, California, in the amount of \$1,599,900 including a 10% or \$159,990 change order authority and approve the capital expenditure for Work Order No. 1623725 for a total capital expenditure of \$2,100,000.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Award Bid No. RPU-7716 for the construction of the Gage 29-3R Groundwater Well Replacement Project (Phase I) to Best Drilling and Pump, Inc., of Colton, California, in the amount of \$1,599,900;
2. Authorize change order authority in the amount of 10% or \$159,990 for Bid No. RPU-7716 for the construction of the Gage 29-3R Groundwater Well Replacement Project (Phase I); and
3. Approve the capital expenditure for Work Order No. 1623725 in the amount of \$2,100,000 which includes all design, construction, construction support, contract administration, inspection and construction change order authority costs for the Gage 29-3R Groundwater Well Replacement Project (Phase 1).

BACKGROUND:

The Riverside Public Utilities Department (RPU) operates and maintains 52 active groundwater wells located throughout Riverside, Colton, and San Bernardino to supply drinking water to the City of Riverside. The existing Gage 29-3 groundwater well is located in the City of San Bernardino and was constructed in 1929 at a depth of approximately 300 feet. Over the years, the production capacity of this well has dropped as related to the declining groundwater table in the area. At times, air entrapment has caused the well to be inoperable. The existing well is too shallow to allow for lowering of the pumping equipment and therefore needs to be replaced with a new deeper well. At this time, Gage 29-3 is only used sparingly as its production capacity is limited and what water it does produce has a significant amount of entrained air that upsets the treatment process at the nearby plant.

As developed in the Safe W.A.T.E.R. plan and continued in the last rate plan, RPU's goal is to replace a well every other year. Although there is no formal list of replacement wells, staff reviews each well on a regular basis and determines which well to replace next based upon operational needs. In this case, Gage 29-3 was selected because:

- It is important for capturing the perchlorate contamination in the ground water
- It has a gas engine, which is not affected by a loss of electric service
- It will no longer produce water within 2 to 3 years if ground water levels continue to drop

The Gage 29-3R Groundwater Well Replacement Project will be completed in two (2) phases. The first phase, as described herein, will involve drilling a domestic water well approximately 1,160 feet deep. Staff will seek approval for the second phase of the project at a future date, which will generally involve equipping the well with a pump and motor, electrical and instrumentation equipment, yard piping and a building enclosure.

DISCUSSION:

The proposed work includes drilling a domestic water well approximately 1,160 feet deep, installing a 20-inch diameter stainless steel well casing, development and test pumping and all other necessary incidental work.

Staff is in the process of hiring a consultant from RPU's consultant panel to assist with the inspection of certain specialized aspects of the well construction. A budgetary amount for these services has been provided in this authorization.

Bid No. RPU-7716 for construction of the Gage 29-3R Groundwater Well Replacement Project (Phase I) was posted on the City's Online Bid System on October 8, 2019, a pre-bid conference was held on October 15, 2019 and bids were opened on November 6, 2019. Seven (7) construction contractors submitted bids. Staff evaluated the bids and deemed Best Drilling and Pump, Inc. as the lowest responsive and responsible bidder. The bid was within the engineer's estimated amount of \$2,287,600.

The bids for Bid No. RPU-7716 are summarized in the table below:

Rank	Vendors	City Location	Bid Total
1.	Best Drilling and Pump, Inc.	Colton, CA	\$1,599,900
2.	South West Pump and Drilling, Inc.	Coachella, CA	\$1,726,155
3.	Zim Industries, Inc.	Bakersfield, CA	\$1,957,065.04
4.	Nor-Cal Pump and Well Drilling	Yuba City, CA	\$2,124,950
5.	Yellow Jacket Drilling Services, LLC	Phoenix, AZ	\$2,171,109
6.	Pacific Coast Well Drilling, Inc.	Templeton, CA	\$2,387,975
7.	Layne Christensen Company	Redlands, CA	\$2,500,500

Engineer's Construction Cost Estimate: \$2,287,600

The bids received are lower than the engineer's estimate largely due to better than expected pricing for the stainless steel well casing, better than expected economies of scale related to the well drilling activities and good competition as demonstrated by the large bidder pool.

The project/fiscal breakdown is as follows:

Project and Fiscal Breakdown		Total Project
Work Type:	Performed By:	Amount:
Planning and Design	Internal Staff	\$90,110
Construction	Best Drilling and Pump, Inc.	\$1,599,900
Construction Support	Internal Staff	\$30,000
Engineering Support, Construction Management and Inspection	Internal Staff	\$120,000
Hydrogeologist Services	Vendor to be Determined (Consultant Panel)	\$100,000
Construction Contingencies	N/A	\$159,990
Work Order Total:		\$2,100,000
Reimbursements:		None
Anticipated Start Date:		January 2020
Anticipated Duration:		4 Months

The table above identifies the parties that have performed and are expected to perform various portions of the project. For brevity, certain contracts with vendors valued at less than \$10,000 have not been itemized in the table. Should there be a need to seek additional services using the formal procurement process, such items in excess of \$50,000 will be brought before the Board for consideration and action.

The Purchasing Manager concurs that the recommended actions are in compliance with Purchasing Resolution No. 23256.

FISCAL IMPACT:

The fiscal Impact of the project is \$2,100,000. Funds of \$500,000 were transferred from the Public Utilities' Aquifer Storage and Recovery Sys Account No 6230000-470814 to ensure sufficient funds are available in the Public Utilities' Potable/Irrigation Well Replacement Account No. 6230100-470833.

Prepared by: Todd L. Jorgenson, Utilities Assistant General Manager/Water
 Approved by: Todd M. Corbin, Utilities General Manager
 Approved by: Al Zelinka, FAICP, City Manager
 Approved as to form: Gary G. Geuss, City Attorney

Certifies availability of funds: Brian Seinturier, Utilities Fiscal Manager

Attachments:

1. Project Site Map
2. Bid Award Recommendation
3. Presentation

Project Site Map

