



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: AUGUST 22, 2016

ITEM NO: 6

SUBJECT: CONSTRUCTION OF THE BROCKTON AVENUE AND PALM AVENUE RAILROAD CROSSINGS WATER PIPELINE REPLACEMENT PROJECT – AWARD OF BID NO. RPU-7407 TO C.P. CONSTRUCTION CO., INC. OF ONTARIO, CALIFORNIA – WORK ORDER NO. 1518913 FOR \$688,000

ISSUES:

Award Bid No. RPU-7407 to C.P. Construction Co., Inc. of Ontario, California, for the construction of the Brockton Avenue and Palm Avenue Railroad Crossings Water Pipeline Replacement Project, in the amount of \$461,450; and approve the capital expenditure of \$688,000 for Work Order No. 1518913.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Award a contract for the construction of the Brockton Avenue and Palm Avenue Railroad Crossings Water Pipeline Replacement Project – Bid No. RPU-7407 to the lowest responsive and responsible bidder, C.P. Construction Co., Inc. of Ontario, California in the amount of \$461,450; and
2. Approve the capital expenditure of \$688,000 for Work Order No. 1518913, which includes all design, construction, paving, contract administration, inspection and construction contingency costs for the Brockton Avenue and Palm Avenue Railroad Crossings Water Pipeline Replacement Project.

BACKGROUND:

Riverside Public Utilities (RPU) replaces water pipelines that are old and high priority leaky mains as part of its on-going water main replacement program. The Brockton Avenue and Palm Avenue Railroad Crossings Water Pipeline Replacement Project consists of replacing existing 6-inch and 10-inch cast iron water pipelines that cross beneath the existing Union Pacific Railroad (UPRR) crossings at those locations. These water pipelines were installed in 1924 and 1928, respectively, and are un-encased. It is modern practice is to encase water pipelines at railroad crossings.

In 2015, the existing un-encased 6-inch cast iron water pipeline was abandoned at the Brockton Avenue railroad crossing due to a leak. The pipeline abandonment has impacted the capacity of nearby fire hydrants and eliminated redundancy in the water system. The abandoned pipeline needs to be replaced to restore the water system.

In order to prevent similar leaks and to realize better economies of scale, the existing 1928 vintage 10-inch CI water pipeline under the nearby railroad crossing at Palm Avenue will also be replaced as part of this project.

The work will generally entail the construction of approximately 335 linear feet of 12-inch ductile iron pipe, 50 linear feet of 8-inch ductile iron pipe, 110 linear feet of 24-inch steel casing under the railroad crossing at Brockton Avenue via bore and jack, and 85 linear feet of 24-inch steel casing under the railroad crossing at Palm Avenue via bore and jack. The work also includes the installation of all related fittings and appurtenances. The trench resurfacing is also included, per the Public Works Department (PW) paving standards.

Staff has coordinated with PW regarding the allowable working hours and traffic control for this project. The work will occur during normal daytime hours with partial street closures to accommodate the bore and jack operations.

This project is not expected to disrupt service to RPU water customers.

The project was advertised for construction bids on June 22, 2016, and bids were opened on July 13, 2016. The lowest responsive and responsible bid was submitted by C.P. Construction Co., Inc. Staff has reviewed all provided documentation and has determined that C.P. Construction Co., Inc. has met all of the requirements of the specifications.

The four bids received are summarized in the table below:

	<u>COMPANY</u>	<u>CITY LOCATION</u>	<u>BID TOTAL</u>
1.	C.P. Construction Co., Inc.	Ontario, CA	\$461,450.00
2.	Hemet Mfg. Co., Inc. dba Genesis Construction	Hemet, CA	\$644,056.00
3.	PUB Construction, Inc.	Diamond Bar, CA	\$816,750.00
4.	Irwin Industries, Inc.*	Long Beach, CA	\$1,275,524.74

* Non-responsive bid

► Engineer's Construction Cost Estimate \$432,810

The lowest bid received was somewhat higher than the engineer's estimate largely due to higher than expected costs to bore and jack the 24-inch steel casing pipe. The relatively small bidder pool is attributed to the specialized nature of the project.

This project is aligned with RPU's infrastructure road map and Utility 2.0 and directly benefits RPU water customers by improving the reliability of the water system.

The project breakdown is as follows:

Project Breakdown:	
Engineering Performed By:	RPU Engineering staff
Construction Performed By:	C.P. Construction Co., Inc.
Anticipated Start Date:	September 2016
Anticipated Duration:	3 months
Coordination Required With:	<ul style="list-style-type: none"> ▪ RPU Field Forces ▪ Public Works ▪ Union Pacific Railroad
Reimbursements:	None

The Purchasing Services Manager concurs that the recommended actions comply with the City of Riverside's Purchasing Resolution No. 22576.

The total capital expenditure for Work Order No. 1518913 is estimated to be \$688,000 as summarized in the following table:

Description	Cost	Percent of Total
Design	\$45,405	6.6%
Construction	\$461,450	67.1%
Construction Contingencies	\$46,145	6.7%
City Forces Construction Support	\$80,000	11.6%
Construction Management, Flagmen and Engineering Support	\$25,000	3.6%
Inspection and Geotechnical Testing	\$30,000	4.4%
Work Order Total	\$688,000	100.0%

FISCAL IMPACT:

Sufficient funds are available in the Public Utilities' Water Main Replacements Account No. 6230000-470707.

Prepared by:	Todd L. Jorgenson, Public Utilities Assistant General Manager/Water
Approved by:	Girish Balachandran, Public Utilities General Manager
Approved by:	John A. Russo, City Manager
Approved as to form:	Gary G. Geuss, City Attorney
Certifies availability of funds:	Laura Chavez-Nomura, Public Utilities General Manager/Finance

