



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: APRIL 12, 2021

SUBJECT: BID NO. RPU-2108535 FOR CONDUIT AND CABLE REPLACEMENT FROM VAULT V2824 TO VAULT V542 WITH HOT LINE CONSTRUCTION, INC., IN THE AMOUNT OF \$112,124; AND WORK ORDER NO. 2108535 FOR A TOTAL CAPITAL EXPENDITURE OF \$176,000

ISSUES:

Consider the award of Bid No. RPU-2108535 for Conduit and Cable Replacement from Vault V2824 to Vault V542 to Hot Line Construction, Inc., in the amount of \$112,124; and approval of Work Order No. 2108535 for a total capital expenditure of \$176,000.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Award Bid No. RPU-2108535 for Conduit and Cable Replacement from Vault V2824 to Vault V542 to the lowest responsive and responsible bidder, Hot Line Construction, Inc., of Brentwood, California, in the amount of \$112,124; and
2. Approve Work Order No. 2108535 for a total capital expenditure of \$176,000.

BACKGROUND:

On August 18, 2020, Circuit 1504 out of the Freeman Substation experienced an outage that lasted six hours, affecting 713 residential and commercial customers, including Best Buy, Bank of America, Juvenile Hall, Lowe's Home Improvement, and Magnolia Police Department, among others, all in the vicinity of Magnolia Avenue, Tyler Street and Hole Avenue.

Electric Field Crews restored power to the affected customers and found the source of the outage to be a section of burnt underground 12kV feeder cable between vaults V2824 and V542 and were not able to reuse the conduit to pull new cable because the conduit was also damaged. In addition, gas switch GS3-191 inside the vault (V542) contains a critical circuit-tie between Freeman Circuit 1504 and Harvey Lynn Circuit 1282, which is currently inoperable due to the damaged cable. Circuit-ties between electric circuits are critical to the overall reliability and operability of the electric system to continue providing safe and reliable electric service to the area in the event that a portion of one circuit is out of service.

The outage was restored by temporarily transferring the affected load from Circuit 1504 to Circuit 1202. It is critical to restore these circuits to their original configuration in order to maintain appropriate loads within their capacity, and to reestablish a functioning circuit-tie between said circuits, per System Planning standards.

This project will replace existing deteriorated underground substructures and cable with new underground electrical distribution facilities to improve the electric service to customers in the area, improving overall electric system reliability. Replacement of deteriorated underground structures and cables is identified as part of the Utility 2.0 Electric Infrastructure Road Map.

DISCUSSION:

The scope of work includes the installation of 1,272 linear feet of conduit and the replacement of 2,050 feet of damaged 12kV feeder cable with new feeder cable, including 600-amp terminations, cable racking in vaults, and all related components to meet current construction standards. The project is located along an alley west of Tyler Street, north of Magnolia Avenue, between vaults V2824 and V542.

This project will upgrade existing deteriorated underground structures and related underground distribution facilities to improve system reliability and safety, improve power quality and service to customers in the area, and replace aging infrastructures that's beyond its useful life. Intermittent electric service disruptions will be coordinated during construction and advanced outage notifications will be issued to minimize impact to customers.



Trench and Conduit Installations



Excavation in Street

Bid No. RPU-2108535 for the Conduit and Cable Replacement from Vault V2824 to Vault V542 Project was posted by invitation only through the Energy Delivery Contractors Panel, on the City's Online Bid System on December 10, 2020 and closed January 22, 2021. Seven (7) vendors submitted bids for the project. Staff evaluated the bids and deemed Hot Line Construction, Inc., of Brentwood, California, to be the lowest responsive and responsible bidder. The bid was within the engineer's estimate of \$161,000. All bids received are summarized in the table below.

Vendors	City Location	Bid Amount	Rank
Hot Line Construction, Inc.	Brentwood, CA	\$112,124.00	1
E.E. Electric, Inc.	Fontana, CA	\$124,270.40	2
Doty Bros. Equipment Company	Norwalk, CA	\$128,978.00	3
VCI Construction	Upland, CA	\$141,699.44	4
Southern Contracting Company	San Marcos, CA	\$174,000.00	5
W.A. Rasic Construction Co.	Long Beach, CA	\$174,878.20	6
Baker Electric	Escondido, CA	\$337,815.35	7
➤ <i>Engineer's Estimate</i>		\$161,000.00	

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

The total project cost and fiscal breakdown are proposed as follows:

Project and Fiscal Breakdown		
Work Type	Performed By:	Amount (\$)
Project Management and Engineering	RPU Engineering and Operations	\$15,661
Civil Construction:	Hot Line Construction, Inc.	\$112,124
Electrical Work	RPU Field Forces	\$33,088
Design		\$3,915
Construction Contingency - Contract (10%)		\$11,212
Work Order Total:		\$176,000
Anticipated Start Date:		April 2021
Anticipated Duration:		5 Weeks

FISCAL IMPACT:

The total fiscal impact is \$176,000. Sufficient funds are available in the Public Utilities Electric Capital Account No. 6130100-470635.

Prepared by: George R. Hanson, Utilities Assistant General Manager/Energy Delivery
 Approved by: Todd M. Corbin, Utilities General Manager
 Approved by: Al Zelinka, FAICP, City Manager
 Approved as to form: Kristi J. Smith, Interim City Attorney

Certifies availability of funds: Edward Enriquez, Chief Financial Officer/City Treasurer

- Attachments:
1. Project Site Map
 2. Bid Award Recommendation