

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: FEBRUARY 22, 2021

SUBJECT: BID NO. RPU-7799 FOR 69KV UNDERGROUND CABLE INSTALLATION FOR RERC TO HARVEY LYNN AND FREEMAN LINES WITH ASPLUNDH CONSTRUCTION, LLC., IN THE AMOUNT OF \$524,990 WITH A 15% CONTRACT CONTINGENCY IN THE AMOUNT OF \$78,749; WORK ORDER NO. 2111094 FOR A TOTAL CAPITAL EXPENDITURE OF \$693,739; INCREASE OF \$54,400 FOR REQ. NO Y206791 FOR CABLE REELS FROM MCAVOY & MARKHAM ENGINEERING & SALES CO; AND INCREASE OF \$54,000 TO WORK ORDER NO. 2026813 FOR A TOTAL CAPITAL EXPENDITURE OF \$840,000

ISSUES:

Award Bid No. RPU-7799 for installation of the 69kV underground cable for RERC to Harvey Lynn and RERC to Freeman lines to Asplundh Construction, LLC., of Anaheim, California, in the amount of \$524,990; approve construction contract contingency of 15% in the amount of \$78,749; and approve Work Order No. 2111094 for the total capital expenditure of \$693,739 for the purpose of tracking work related to the installation of 69kV underground cable as part of the Riverside Transmission Reliability Project Work Order No. 642975. Approve an increase of \$54,400 to include cost of reels in Cable Purchase Requisition No. Y206791 of Bid No. RPU-2016660 from McAvoy & Markham Engineering & Sales Co. of Irvine, California and increase related Work Order No. 2026813 for a total expenditure of \$840,000.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Award Bid No. RPU-7799 for installation of the 69kV underground cable for RERC to Harvey Lynn and RERC to Freeman lines to Asplundh Construction, LLC., of Anaheim, California, in the amount of \$524,990;
2. Authorize staff to issue change orders in an amount not to exceed 15% of the contract amount of \$78,749 for Asplundh Construction, for a total cost not to exceed \$603,739;
3. Approve Work Order No. 2111094 for the total capital expenditure of \$693,739 for the purpose of tracking work related to the installation of 69kV underground cable as part of RTRP Work Order No. 642975;
4. Authorize staff to issue change orders in an amount not to exceed \$54,000 for Requisition No. Y206791 – Bid No. RPU-2016660 for cable purchase from McAvoy &

Markham Engineering & Sales Co of Irvine, California for a total requisition amount of \$506,363.26; and

5. Approve an increase of \$54,400 to related Work Order No. 2026813 for total expenditure of \$840,000 for tracking expenses and invoices associated with the sub transmission line short-lead time overhead materials and underground cable for the 69 kV RERC to Harvey Lynn Sub-transmission Line Project.

BACKGROUND:

Riverside Transmission Reliability Project (RTRP) is a joint project with Southern California Edison (SCE) and will provide Riverside Public Utilities (RPU) with a critical second connection to the state electric transmission grid by connecting to the existing 230kV SCE Mira Loma – Vista line, to address long-term capacity and reliability needs of the City's electric utility system.

The RTRP Project includes construction of approximately nine miles of double circuit 230kV transmission lines, installation of approximately 10 miles of 69kV sub-transmission lines within the City of Riverside, construction of two new substations – Wildlife (SCE) and Wilderness (RPU), improvements to five existing RPU 69kV substations, system improvements for reconfiguration of existing sub-transmission and distribution lines, and installation of new telecommunication lines.

The Riverside County Airport Land Use Commission (ALUC) has the responsibility to make determinations whether projects near airports are consistent or inconsistent with the adopted Riverside County Airport Land Use Compatibility Plan. ALUC has policies and procedures related to land development within the vicinity of airports. After reviewing the proposed RTRP improvements in the area near the airport, Riverside County ALUC stipulated in their April 12, 2012 consistency determination that approximately 2,550 feet of the proposed 69 kV line be placed underground in order for the Project to be compatible with the 2005 Airport Land Use Compatibility Plan. If the project were not placed underground within this area, it would have been found to be inconsistent with the plan and it would have been a significant impact under the California Environmental Quality Act (CEQA). Consequently, to avoid significant impact under CEQA, and to achieve consistency with the plan, this section along Doolittle Avenue west of the airport was designed and constructed underground. Also, by placing this section underground, ALUC was able to determine that the project was compatible with the established Airport Compatibility Zones. There are no other portions of the 69kV improvements which are part of RTRP that proposed to be underground in the City of Riverside.

On February 5, 2013, the City Council certified the Final Environmental Impact Report (FEIR) for the entire Project, in accordance with California Environmental Quality Act (CEQA) requirements. A Notice of Determination was filed with the County of Riverside following the certification by the City Council. On March 12, 2020, SCE obtained California Public Utilities Commission (CPUC) approval of RTRP and was granted Certificate of Public Convenience and Necessity (CPCN).

The table below lists the most recent Board approvals to-date of major 69kV sub-transmission system scope of work and associated components:

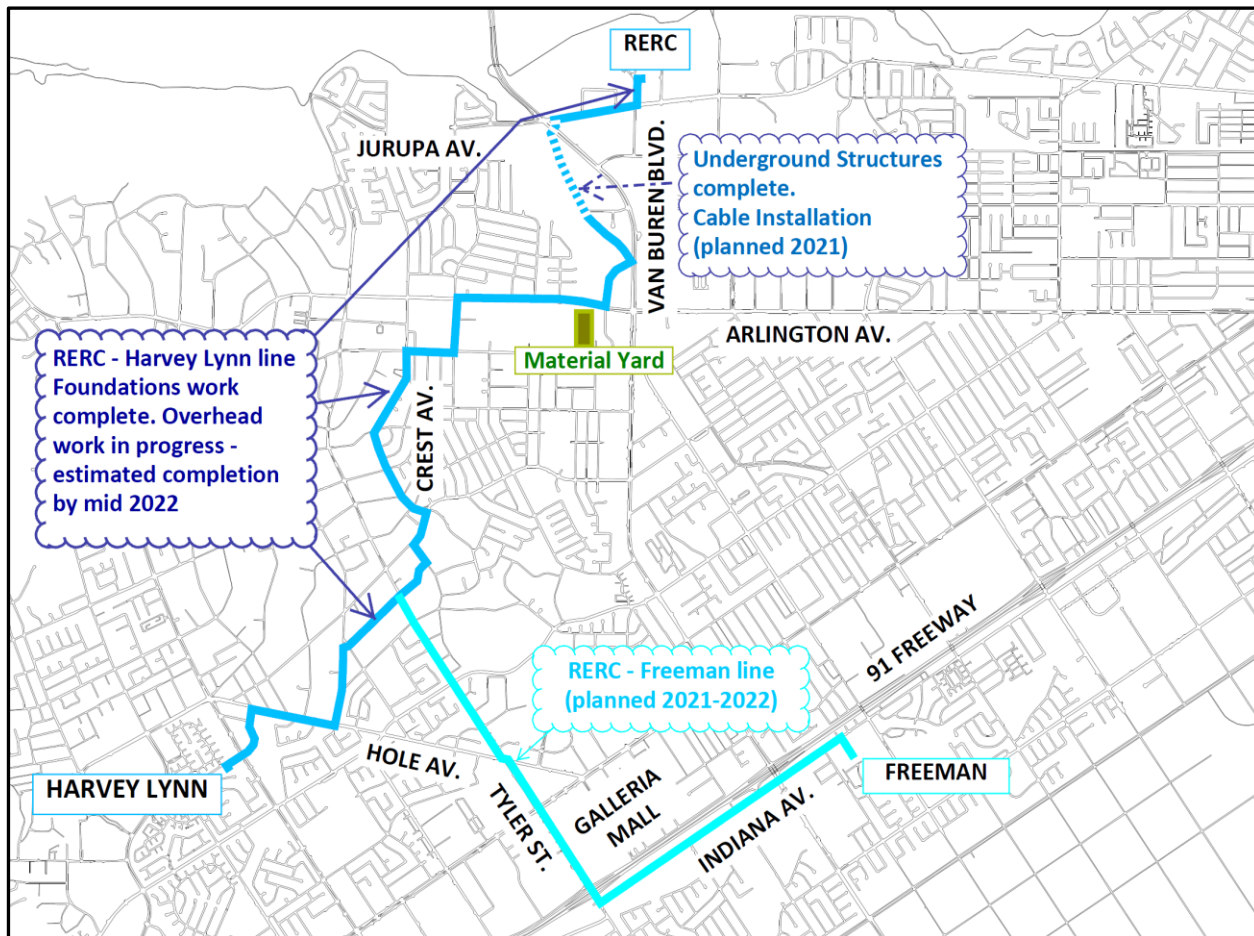
Item Description	Board Meeting Date	Project Component Status
RTRP Approval and Work Order No. 642975	01/20/06	Ongoing
Board Approved Bid No. RPU-7659 Installation of conduit and structures 69kV RERC to Harvey Lynn Underground line segment	06/24/19	Complete
Board Approved Bid No. RPU-7680 Construction of 69kV Material Yard	08/26/19	Complete
Board Approved Bid No. RPU-7711 Drilled Pier Foundation work for steel poles RERC to Harvey Lynn 69kV line	11/25/19	Complete
Board Authorized an increase in funds for Work Order No. 642975 69kV Scope of Work – RERC to Harvey Lynn & RERC to Freeman \$42,605,521 to \$71,605,521	11/25/19	Ongoing
Board Approved Bid No. RPU-2016660 Materials purchase from various vendors (including 69kV underground cable)	06/08/20	Ongoing
Board Authorized an increase of \$144,910,000 in funds for Work Order No. 642975 for a total work order amount of \$216,515,521 and recommended City Council to approve a supplemental appropriation of \$125,000,000 for RTRP.	08/24/20	Council agenda item for January 26, 2021
Board Approved Bid No. RPU-7772 RERC to Harvey Lynn 69kV overhead line construction	10/26/20	In Progress

On July 2020, RPU completed the installation of 37 drilled pier foundations for the 69kV RERC to Harvey Lynn overhead line. The construction of the 69kV sub-transmission overhead line work between Riverside's Energy Resource Center (RERC) and Harvey Lynn substation is in progress, and the construction of the RERC to Freeman overhead line is projected to start in Fiscal Year 2021-2022.

The 69kV sub-transmission lines includes both overhead and underground facilities. Construction of the 69kV sub-transmission lines between RERC and Harvey Lynn and Freeman Substations scope of work requires undergrounding the electric lines near the corner of Jurupa Avenue and Van Buren Boulevard, and Doolittle Avenue and Morris Street, because this segment of the sub-transmission lines route is within the vicinity of Riverside Municipal Airport. The civil underground structure work and conduit installation needed for this line section is complete.

On June 8, 2020, RPU Board of Public Utilities approved Work Order No. 2026813 for \$786,000 and Bid No. RPU-2016660, which included the approval of Requisition No. Y206791 in the amount of \$442,294 with 10% change order authority for the 69kV underground cable purchase from McAvoy & Markham Engineering & Sales Co.

The cable manufacturer worked with RPU's engineering consultant for optimum design and length, and the final price of cable was \$451,963.26 (total amount within Board approved change order authority). As further explained below, staff is requested authority to issue change orders to this requisition in an amount not to exceed \$54,000.



69kV overhead sub-transmission lines: RERC to Harvey Lynn and RERC to Freeman substation

With the 69kV RERC to Harvey Lynn line overhead work currently in progress, the related 69kV cable installation for the underground section also needs to be coordinated; since the underground structures were installed and in place for both Harvey Lynn line and Freeman line, it is recommended that the 69kV cable installation of Freeman line gets installed simultaneously for efficiency and cost benefit.

RPU staff has procured the 69kV underground cable for this project. The cable manufacturer delivered the cable on 12 reels which are very large and have price value of \$54,400. The manufacturer provided RPU with the options to either return the reels to their Seymour, CT location within 12 months timeframe at RPU's cost for logistics, or to pay the cost of reels separately, which were not part of the 69kV underground cable purchase costs.

RPU opted not to bear the responsibility of the cost logistics that comes with shipping the reels back to the manufacturer and instead chose to pay for the reels to McAvoy & Markham Engineering & Sales Co. and then sell the reels as part of the 69kV underground cable installation bid to the awarded bidder. RPU requested the bidders of underground cable installation contract to purchase the unloaded cable reels from RPU. The bidders were asked to provide their total bid amount to install the cable after subtracting the cable reel cost.

This bid award relates to RPU's scope of work for the 69kV underground cable installation of sub-transmission lines between RERC to Riverside's Harvey Lynn and Freeman Substations to improve the electric grid system within the City. The scope includes the installation of two separate half mile sections of 69kV underground cable from RERC to Harvey-Lynn and Freeman

substations, grounding conductors, link boxes and other associated hardware/materials. The Contractor will be responsible for providing equipment, labor, and other materials needed to perform work in accordance with RPU's Contract Documents. No electric service disruptions are anticipated during installation.



Typical 69kV underground cable installation work

DISCUSSION:

Bid No. RPU-7799 for the 69kV underground cable installation for RERC to Harvey Lynn was posted on the City's Online Bid System on November 13, 2020 and closed on January 08, 2021. Four vendors submitted bids for the project. Staff evaluated the bids and deemed Asplundh Construction, LLC. of Anaheim, California to be the lowest responsive and responsible bidder. The bid from Asplundh Construction, LLC. was within the engineer's estimated amount of \$550,000. The bids are summarized in the table below:

Vendors	City Location	Bid Amount	Rank
Asplundh Construction, LLC.	Anaheim, CA	\$524,990.00	1
Henkels & McCoy, Inc.	Pomona, CA	\$941,128.00	2
PAR Electrical Contractors, Inc.	Rancho Cucamonga, CA	\$1,406,023.04	3
Parkia, Inc	Santa Fe Springs, CA	\$1,930,200.00	4

➤ *Engineer's Estimate*

\$550,000

The project/fiscal breakdown for RPU Bid No. 7799 and associated WO 2111094 is as follows:

Project and Fiscal Breakdown		
Work Type	Performed By:	Amount (\$)
Engineering	Power Engineers, Inc.	\$35,000
Project Management	RPU Engineering & Project Communications	\$30,000
	Power Engineers, Inc.	\$5,000
Construction contract	Asplundh Construction, LLC.	\$524,990
Contingency - 15% of Construction Contract		\$78,749
Miscellaneous Materials		\$20,000
Work Order Total:		\$693,739
Anticipated Start Date:		April 2021
Anticipated Duration:		6-8 Weeks

A 15% contract contingency is requested to cover project schedule coordination matters with the RERC-Harvey Lynn overhead line work currently in progress and with other development projects in the area.

At this time, staff is also requesting that the Board to approve an increase of \$54,400 to include cost of reels in Requisition No. Y206791 - Bid No. RPU-2016660 for cable purchase from McAvoy & Markham Engineering & Sales Co. of Irvine, California, for a total amount of \$506,363.26; and also approve an increase of \$54,400 to related Work Order No. 2026813 for a total expenditure of \$840,000.

The Purchasing Manager concurs that the recommended actions comply with Purchasing Resolution No. 23256.

FISCAL IMPACT:

The total fiscal impact is \$748,139 (\$693,739 for Bid No. RPU-7799 + \$54,400 for cost of cable reels). Sufficient funds are available in Public Utilities Electrical Capital Account No. 6130000-470685 (RTRP non-reimbursable) for RTRP Work Order No. 642975.

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
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Attachments:

1. Project Site Map
2. Award Recommendation (Bid No. RPU – 7799)
3. Presentation