



# RIVERSIDE PUBLIC UTILITIES

## Board Memorandum

**BOARD OF PUBLIC UTILITIES**

**DATE:** AUGUST 12, 2019

**ITEM NO:** 5

**SUBJECT: PLAZA SUBSTATION 4kV TO 12kV CONVERSION OF CIRCUIT 441 – WORK ORDER NO. 1708708 FOR A TOTAL CAPITAL EXPENDITURE OF \$2,038,000**

**ISSUE:**

Approve Work Order No. 1708708 for a total capital expenditure of \$2,038,000 for the Plaza Substation 4kV to 12kV Conversion of Circuit 441 Project.

**RECOMMENDATION:**

That the Board of Public Utilities approve Work Order No. 1708708 for a total capital expenditure of \$2,038,000 for the Plaza Substation 4kV to 12kV Conversion of Circuit 441 Project.

**BACKGROUND:**

The Electric System Master Plan (ESMP) recommends the conversion of all remaining 4kV to 12kV distribution circuits to improve system capacity and reliability. This project will upgrade existing 4kV electrical distribution facilities to 12kV and provide additional electrical field ties to existing 12kV circuits to improve system reliability and decrease outage restoration time for area customers. Intermittent electric service disruptions will be coordinated during construction and advanced outage notifications will be issued to minimize the impact to customers.

**DISCUSSION:**

The proposed project will upgrade electric distribution facilities north of Central Avenue, south of Jurupa Avenue, east of Magnolia Avenue, and west of Streeter Avenue. The scope of work includes the replacement and installation of 88 wooden poles, 39 transformers, and related overhead distribution facilities. The project will convert approximately 16,500 linear feet of aging 4kV distribution facilities with new 12kV electric distribution facilities, which will improve system reliability and safety, improve power quality and electric service to customers in the area, and replace aging infrastructure that is beyond its useful life. Replacement of 4kV to 12kV and related distribution facilities is identified as part of the Utility 2.0 Electric Infrastructure Road Map. Electrical work will be completed by RPU field forces; no civil work is required as part of this project.

RPU engineering staff performed the design to eliminate any negative visual impacts to the project and surrounding area, with sensitivity to the existing neighborhood, and within City Planning guidelines for the designated area of the project.

The project/fiscal breakdown is as follows:

<b>Project and Fiscal Breakdown</b>		
Work Type	Performed By:	Amount (\$)
Project Management and Engineering	RPU Engineering and Operations	\$14,700
Electrical Work	RPU Field Forces	\$1,990,146
Design		\$33,154
<b>Work Order Total:</b>		<b>\$2,038,000</b>
<b>Anticipated Start Date:</b>		<b>September 2019</b>
<b>Anticipated Duration:</b>		<b>24 weeks</b>

**FISCAL IMPACT:**

The total fiscal impact of the project is \$2,038,000. Sufficient funds are available in Public Utilities Electric Capital Account No. 6130100-470644.

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: Gary G. Geuss, City Attorney

Certifies availability of funds: Brian Seinturier, Utilities Fiscal Manager

- Attachments:
1. Map
  2. Presentation