



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: NOVEMBER 26, 2018

ITEM NO: 14

SUBJECT: WORK ORDER NO. 1831543 IN THE AMOUNT OF \$71,803 AND WORK ORDER NO. 1831515 IN THE AMOUNT OF \$8,980 FOR A TOTAL AMOUNT OF \$80,782 FOR EMERGENCY WORK COMPLETED DUE TO PRIMARY CABLE BURN-UP ON MERLIN DRIVE AND LANCELOT COURT

ISSUE:

Approve Work Order No. 1831543 in the amount of \$71,803 and Work Order No. 1831515 in the amount of \$8,980 for a total amount of \$80,783, in accordance with the City of Riverside Charter Article XII, section 1202(b)(2), for emergency work completed due to the primary cable burn-up on Merlin Drive and Lancelot Court.

RECOMMENDATION:

That the Board of Public Utilities approve Work Order No. 1831543 in the amount of \$71,803 and Work Order No. 1831515 in the amount of \$8,980 for a total amount of \$80,783, in accordance with the City of Riverside Charter Article XII, section 1202(b)(2), for emergency work completed due to the primary cable burn-up on Merlin Drive and Lancelot Court.

BACKGROUND:

On Wednesday May 30, 2018, a section of 12kV cable-in-conduit (CIC) faulted on Merlin Drive easterly of Lancelot Court (see project site map) interrupting service to approximately nine (9) customers. CIC was a common industry practice developed in the late 1960's. As part of the manufacturing process for CIC, cable was pre-installed in the conduit before the CIC was installed in the trenches below ground. This type of installation makes it very difficult to remove faulted cables from the conduit. In order to facilitate restoration and repairs, crews had to install a generator to maintain service and design a more permanent installation.

When electric service is provided to customers via generator, there are high voltage facilities installed above ground in a temporary fashion. Exposed, high voltage facilities pose a risk to the public therefore exposure should be limited. As such, staff began repairs immediately under City of Riverside Charter Article XII, section 1202(b)(2) which allows work to be done without prior approval if there is an urgent necessity to preserve life, health or property. As soon as practically thereafter, the matter shall be presented to the Board of Public Utilities.

Members of the Contractors' Panel for Energy Delivery work were contacted for immediate availability and Doty Bros. was the first responder. Subsequently, contract crews from Doty Bros. were immediately directed to install 520 feet of trenching and 520 feet of conduit to restore the electrical system to normal operating condition. Work started on June 1, 2018, and was completed on June 8, 2018. The contractor's cost, including weekend work totaling \$71,803, including RPU Inspection. City crews installed all the electrical cables and accessories with multiple crews for a total amount of \$8,980.

The Energy Delivery Division has prioritized defined areas of the City for cable replacement based upon age of cable and CIC, as well as, the historical frequency of cable failures in the areas. Ideally, cable is replaced prior to failure as part of a large area project. In cases such as this, the failed cable and associated equipment must be replaced individually upon failure. Following restoration of service, the condition of the failed cable and impact of the outage upon the overall area or neighborhood connectivity will determine the future priority of larger scale cable replacement projects in the area.

FISCAL IMPACT:

The total fiscal impact includes Work Order No. 1831543 in the amount of \$71,803 and Work Order No. 1831515 in the amount of \$8,980 for a total amount of \$80,783. Sufficient funds were available in Public Utilities Cable Replacement Account No. 6130100-470635.

Prepared by: George R. Hanson, Utilities Assistant General Manager/Energy Delivery
Approved by: Todd L. Jorgenson, Interim Utilities General Manager
Approved by: Al Zelinka, FAICP, City Manager
Approved as to form: Gary G. Geuss, City Attorney

Certifies availability
of funds: Aileen Ma, Interim Utilities Assistant General Manager/Finance & Administration

Attachment:

1. Project Site Map
2. Presentation

Project Site Map

