

# **RIVERSIDE PUBLIC UTILITIES**

Board Memorandum

## **BOARD OF PUBLIC UTILITIES**

**DATE:** JANUARY 14, 2019

**ITEM NO:** 7

#### <u>SUBJECT</u>: WORK ORDER NO. 1904482 IN THE AMOUNT OF \$123,007 AND WORK ORDER NO. 1904430 IN THE AMOUNT OF \$42,916 FOR A TOTAL AMOUNT OF \$165,923 FOR EMERGENCY WORK COMPLETED DUE TO CABLE FAILURE NEAR 9080 ALTADENA DRIVE

## ISSUE:

Approve Work Order No. 1904482 in the amount of \$123,007 and Work Order No. 1904430 in the amount of \$42,916 for a total amount of \$165,923, in accordance with the City of Riverside Charter Article XII, section 1202(b)(2), for emergency work completed due to cable failure on 9080 Altadena Drive.

## **RECOMMENDATION:**

That the Board of Public Utilities Approve Work Order No. 1904482 in the amount of \$123,007 and Work Order No. 1904430 in the amount of \$42,916 for a total amount of \$165,923, in accordance with the City of Riverside Charter Article XII, section 1202(b)(2), for emergency work completed due to cable failure on 9080 Altadena Drive.

### BACKGROUND:

On Sunday, August 12, 2018, a section of 12kV Primary Cable in Conduit (CIC) faulted on Altadena Drive at Keating Drive, also damaging 120/240V secondary cable and interrupting service to approximately 33 customers. The installation of 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. Consequently, sections of circuits must be replaced in their entirety to address faulted sections of CIC. In order to facilitate restoration and repairs, crews routinely have to install a generator to maintain service while the permanent installation is being constructed.

When electric service is provided to customers via generator, there are high voltage facilities used above ground in a temporary fashion. Exposed, high voltage facilities pose a risk to the public and 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 practical thereafter, the matter shall be presented to the Board of Public Utilities.

### DISCUSSION:

Members of the Contractors' Panel for Energy Delivery work were contacted for immediate availability and W. A. Rasic Construction Co. Inc. was the first to respond to the request for construction. Subsequently,

contract crews from W. A. Rasic were immediately directed to excavate and repair primary, secondary, and service conduits to restore the electrical system to normal operating condition. The work started on August 14, 2018, and was completed on August 23, 2018. The contractor's cost, including weekend work and Riverside Public Utilities inspection totaled \$123,007. City crews installed all the electrical cables and accessories with multiple crews for a total amount of \$42,916.

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. This cable replacement program is an integral part of Utility 2.0's effort to replace aging infrastructure and identified 62 miles of cable for replacement. Staff estimates that approximately six miles of cable will be replaced each year.

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:

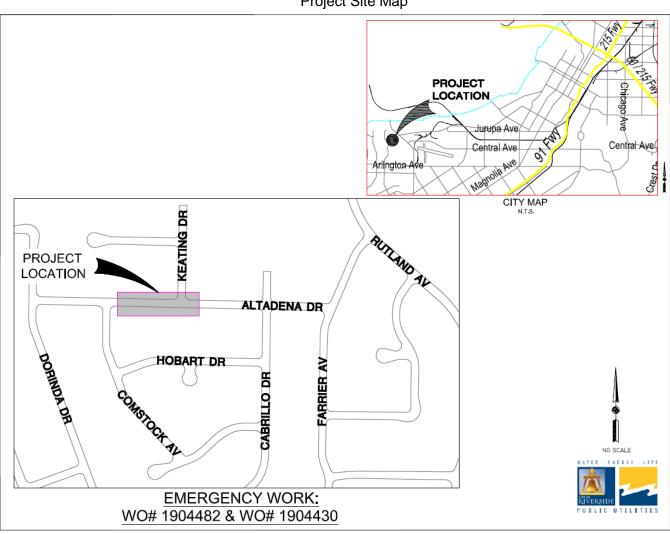
The total fiscal impact includes Work Order No. 1904482 in the amount of \$123,007 and Work Order No. 1904430 in the amount of \$42,916 for a total amount of \$165,923. Sufficient funds were available in Public Utilities Cable Replacement Account No. 6130100-470635.

Prepared by:	George R. Hanson, Utilities Assistant General Manager/Energy Delivery
Approved by:	Todd 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: Aileen Ma, Interim Utilities Assistant General Manager/Finance & Administration

### Attachment:

- 1. Project Site Map
- 2. Presentation



Project Site Map