



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: AUGUST 22, 2016

ITEM NO: 8

SUBJECT: CONSTRUCTION OF THE TENTH AND ELEVENTH STREET WATER MAIN REPLACEMENT PROJECT – WORK ORDER NO. 1619730 FOR \$1,745,000

ISSUE:

Approve a capital expenditure in the amount of \$1,745,000 for Work Order No. 1619730 which includes all design, construction, paving and construction contingency costs for the Tenth and Eleventh Street Water Main Replacement Project.

RECOMMENDATION:

That the Board of Public Utilities approve a capital expenditure of \$1,745,000 for Work Order No. 1619730, which includes all design, construction, paving and construction contingency costs for the Tenth and Eleventh Street Water Main Replacement Project.

BACKGROUND:

On July 11, 2016, the Board of Public Utilities (Board) received a report of planned routine infrastructure projects over \$500,000 for fiscal year 2016/17. One of the projects discussed was the planned construction of the Tenth and Eleventh Street Water Main Replacement Project. This project is in line with Riverside Public Utilities' (RPU) infrastructure road map and Utility 2.0 and directly benefits RPU water customers within the vicinity of the project in terms of system reliability and improved fire protection. This project consists of approximately 0.75 miles of replacement water main, representing about 13% of RPU's goal for water main replacements during fiscal year 2016/17.

The project scope of work has been modified slightly from what was initially planned to include additional pipeline replacement on Orange Street between Mission Inn and University Avenues. In addition, the segment of water main replacement on Eleventh Street between Market and Almond Streets was eliminated. This change was due to a recent water leak on this segment of Orange Street which elevated its priority for replacement and a pavement moratorium that currently exists on Eleventh Street in that area. The deleted segment of pipeline will be considered for replacement as part of a future project.

RPU replaces water pipelines that are old and high priority leaky mains as part of its on-going water main replacement program. The Tenth and Eleventh Street Water Main Replacement Project consists of replacing existing 6-inch and 10-inch cast iron and steel water mains that were installed between 1924 and 1938. Based on their leak history, age and size, these water pipelines have been identified as high priorities for replacement to enhance system reliability and increase fire flow.

The work generally entails the construction of approximately 4,000 linear feet of 12-inch ductile iron pipe, fifteen fire hydrants, 63 service tie-overs and nineteen system connections along with all necessary fittings and appurtenances. The work also involves abandoning approximately 400 linear feet of old 10-inch cast iron water pipeline on Main Street between Tenth and Eleventh Streets which will clear the way for proposed improvements to the Downtown walking mall in this area. The two

existing services on this segment of water main will be tied over to the new pipeline in Tenth Street. The new water facilities will be installed according to RPU's current standards.

The work identified will be constructed by the Water Division's field forces and is not expected to disrupt service to RPU water customers.

Once the new water pipelines are installed, RPU will be responsible for standard trench repaving per the Public Works Department (PW) standards. Trench repaving for pipeline projects constructed by the water field forces may be performed by the PW streets division. However, if the backlog of streets division projects precludes the paving to occur on schedule, staff will solicit paving bids from RPU's Paving Contractor Panel. A budgetary estimate for the paving work has been included in this authorization.

Staff has coordinated with PW regarding the allowable working hours for this project. The work east of Market Street will occur during nighttime hours to minimize disruptions to businesses in the Downtown area. The work on Tenth Street west of Market Street will occur during normal daytime hours. All work will be adjourned during Riverside's Downtown Festival of Lights.

The project breakdown is as follows:

Project Breakdown:	
Engineering Performed By:	RPU Engineering staff
Construction Performed By:	<ul style="list-style-type: none"> ▪ RPU Field Forces (Pipeline) ▪ Contractor Panel or PW Crews (Paving)
Anticipated Start Date:	September 2016
Anticipated Duration:	6 months
Coordination Required With:	<ul style="list-style-type: none"> ▪ RPU Field Forces ▪ Public Works
Reimbursements:	None

The total capital expenditure for Work Order No. 1619730 is estimated to be \$1,745,000 as summarized in the following table:

Description	Cost	Percent of Total
Design	50,000	2.9%
Construction	1,200,000	68.8%
Construction Contingencies	120,000	6.9%
Paving Budget	375,000	21.4%
Work Order Total	1,745,000	100.0%

FISCAL IMPACT:

Sufficient funds are available in the Public Utilities' Water Main Replacements Account No. 6230000-470707.

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