



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: NOVEMBER 14, 2022

SUBJECT: BINGHAM AND WOLFE AVENUES WATER MAIN REPLACEMENT PROJECT – APPROVAL OF WORK ORDER NO. 2205705 IN THE AMOUNT OF \$1,216,000

ISSUE:

Consider approving Work Order No. 2205705 in the amount of \$1,216,000 for all engineering, construction, paving and construction contingency costs for the Bingham and Wolfe Avenues Water Main Replacement Project.

RECOMMENDATION:

That the Board of Public Utilities approve Work Order No. 2205705 in the total amount of \$1,216,000 for all engineering, construction, paving and construction contingency costs for the Bingham and Wolfe Avenues Water Main Replacement Project.

BACKGROUND:

Riverside Public Utilities (RPU) budgets annually to replace high-priority water pipelines that have reached their end-of-life. An end-of-life determination is based on parameters such as pipeline age, material, and maintenance records via a Business Risk Exposure (BRE) model, which identifies high-risk water distribution pipeline segments needing replacement. The BRE model has proven valuable in identifying and prioritizing water main replacement projects and was presented on October 13, 2021, to the RPU Water Committee.

The Bingham and Wolfe Avenues Water Main Replacement Project is part of RPU's ongoing water main replacement program to replace old and high-priority water mains. The project area consists of 8-inch ductile iron water pipelines installed in 1998. These pipelines have experienced 20 leaks since 2005. This unusually high number of leaks and premature failure of the pipelines is suspected to have been accelerated by soil conditions in the vicinity of this project that are severely corrosive to ferrous material.

DISCUSSION:

The work generally entails the construction of approximately 3,285 linear feet of 8-inch Polyvinyl Chloride (PVC) pipe, 72 water services, eight fire hydrants, and three system connections, along with all necessary fittings, appurtenances, and related incidental work, which will be installed

according to RPU's current standards. The Water Division's field forces will construct the work. Besides routine service tie-overs, there will be no disruption of service.

Once the new water mains are installed, RPU will be responsible for standard trench repaving in accordance with the Public Works Department (PW) standards. PW may perform trench repaving for pipeline projects constructed by the Water Division's field forces. However, if the backlog of PW projects precludes the pipeline 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 will occur during normal daytime work hours. Staff is coordinating with the Office of Communications Division of the City Manager's Office to establish a project informational website. Additionally, a notification letter will be mailed to customers within the surrounding area upon approval of the project. Staff will continue to reach out directly to customers within the vicinity of the project throughout the project duration.

The project/fiscal breakdown is as follows:

Work Type:	Performed By:			Amount:
Design, Geotechnical Investigation, and Survey	Internal Staff and Miscellaneous Vendors			\$70,400
Construction	RPU Water Field Forces	Labor	\$231,000	\$696,000
		Equipment	\$130,000	
		Materials	\$335,000	
Paving Budget	PW or RPU Paving Contractor Panel			\$350,000
Construction Management, Inspection and Engineering Support	Internal Staff			\$30,000
Construction Contingencies	N/A			\$69,600
Work Order Total:		\$1,216,000		
Reimbursements:	None			
Anticipated Start Date:	February 2023			
Anticipated Duration:	4 Months			

The table above identifies the type of work, who will perform the work and the estimated cost for each category. Specific contracts with vendors valued at less than \$10,000 have not been itemized in the table for brevity. If needed, additional services valued at more than \$50,000 will be solicited through a formal procurement process and brought before the Board of Public Utilities for consideration and action.

STRATEGIC PLAN ALIGNMENT:

This item contributes to **Strategic Priority 6 - Infrastructure, Mobility and Connectivity** and **Goal 6.2** – Maintain, protect, and improve assets and infrastructure within the City's built

environment to ensure and enhance reliability, resiliency, sustainability, and facilitate connectivity.

This item aligns with each of the five Cross-Cutting Threads as follows:

1. **Community Trust** – A public facing project website will be deployed for this project conveying key information about the project to the community.
2. **Equity** – RPU endeavors to provide safe and reliable water service to all its customers. Since RPU's water system is an interconnected network, investments made to individual parts of the system improve the reliability of the overall system, thereby providing an equitable benefit to all customers.
3. **Fiscal Responsibility** – RPU is a prudent steward of public funds and uses efficient practices to complete its work while also providing quality public services.
4. **Innovation** – A collaborative and innovative approach was used to relocate the conflicting water facilities in such a way to minimize potential disruptions to the community in the future.
5. **Sustainability & Resiliency** – The construction materials specified for this project are considered best practices in the industry and are expected to last well into the future.

FISCAL IMPACT:

The total project cost is estimated at \$1,216,000. Sufficient funds are available in the Public Utilities' Water Main Replacement Account No. 6230000-470707.

As part of the City of Riverside's Debt Management Policy and RPU's Fiscal Policy, this project is bond funded in accordance with the City of Riverside Debt Management Policy: <https://www.riversideca.gov/finance/PDF/2018/Final%20Debt%20Mgmt%20Policy%201-2017.pdf> and RPU Fiscal Policy: <https://riversideca.gov/finance/PDF/2018/RPU%20Fiscal%20Policies.pdf>

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Approved by:	Todd M. Corbin, Utilities General Manager
Approved by:	Kris Martinez, Assistant City Manager
Approved as to form:	Phaedra A. Norton, City Attorney

Certifies availability of funds:	Edward Enriquez, Interim Assistant City Manager/Chief Financial Officer/City Treasurer
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Attachments:

1. Project Location Map
2. Presentation