



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: JANUARY 27, 2025

SUBJECT: CONSTRUCTION OF THE BRUNSWICK AVENUE WATER PIPELINE REPLACEMENT PROJECT IN THE AMOUNT OF \$2,180,000 – WORK ORDER NO. 2214680

ISSUE:

Consider approval of Work Order No. 2214680 in the total amount of \$2,180,000 for all engineering, construction, paving and construction contingency costs for the Brunswick Avenue Water Pipeline Replacement Project.

RECOMMENDATION:

That the Board of Public Utilities approve Work Order No. 2214680 in the total amount of \$2,180,000 for all engineering, construction, paving and construction contingency costs for the Brunswick Avenue Water Pipeline Replacement Project.

BACKGROUND:

Water Division staff budget and schedule the replacement of water distribution pipelines annually based on several factors using a Business Risk Exposure (BRE) model that considers pipeline age, material, maintenance records, and the criticality of each pipeline segment of the water distribution system. The BRE model has proven valuable in identifying and prioritizing water main replacement projects. Water staff presented the use and functionality of the BRE to the Board of Public Utilities Water Committee on October 13, 2021.

The subject project is part of an ongoing water main replacement program to replace old and high-priority water mains. The project area consists of 6-inch cast iron water pipelines installed in the 1950's. The pipelines have experienced thirty-five reported leaks, of which eight have occurred since 2020. These water pipelines rank high for replacement based on their leak history, age, material, and size. Replacing these pipelines ensures continued water system reliability.

In addition, by completing this project at this time, the Public Utilities Department (RPU) has an opportunity to save on paving costs since the Public Works Department (PW) will be performing street improvements on one of the street segments included with this project, Pembroke Avenue, as part of their Fiscal Year 2023/2024 Arterial and Minor Streets Maintenance Project – Phase 3, anticipated to begin in mid-2025. RPU will be responsible for restoring the pavement within the pipeline trench areas. However, the final asphalt cap will be performed as part of PW's street improvement work.

DISCUSSION:

The work generally entails the construction of approximately 3,500 linear feet of 8-inch diameter Polyvinyl Chloride (PVCO) pipeline, eighty-four (84) water services, seven (7) fire hydrants, and seven (7) 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. Other than 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 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 from occurring 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.

The project/fiscal breakdown is as follows:

Table: Project and Fiscal Breakdown

Work Type:	Performed By:	Amount:		Percent of Total:
Design and Survey	Internal Staff		\$58,865	2.7%
Geotechnical Investigation	GeoMat Testing Laboratories, Inc.		\$12,535	0.6%
Construction	RPU Water Field Forces	Labor	\$335,000	42.5%
		Equipment	\$153,000	
		Materials	\$438,000	
Paving Budget	PW or Paving Contractor Panel		\$900,000	41.3%
Construction Management, Inspection, and Engineering Support	Internal Staff		\$75,000	3.4%
Soil Compaction and Material Testing	Outside Vendor, Informal Procurement		\$25,000	1.1%
Construction Contingencies	N/A		\$182,600	8.4%
Work Order Total:			\$2,180,000	100.0%
Reimbursements:				None
Anticipated Start Date:				January 2025
Anticipated Duration:				7 Months

Water Division staff have coordinated with PW regarding allowable working hours for this project. The work will occur during normal daytime work hours. Staff are coordinating with the City Manager's Office/Office of Communications Division 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 table above identifies the type of work, who will perform the work and the estimated cost for each category. If needed, additional services valued at more than \$50,000 will be solicited using the formal procurement process and brought before the Board of Public Utilities for consideration and action consistent with City procurement policies.

STRATEGIC PLAN ALIGNMENT:

This item contributes to **Strategic Priority No. 6 Infrastructure, Mobility and Connectivity** and Goal No. 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 in 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 \$2,180,000. Sufficient funds are available in the Public Utilities' Water Main Replacement Account No. 6230000-470707.

Prepared by: David A. Garcia, Utilities General Manager
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Certified as to availability of funds: Kristie Thomas, Finance Director/Assistant Chief Financial Officer
Approved by: Rafael Guzman, Assistant City Manager
Approved as to form: Jack Liu, Interim City Attorney

Attachments:

1. Project Location Map
2. Resolution No. 15507
3. Presentation