

Magnolia Avenue Techite Pipe and Pressure Reducing Station Replacement Project – Supplemental Appropriation

Public Utilities Department

City Council
March 13, 2018

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BACKGROUND

1. Techite pipe is a composite of fiberglass, polyester resin and sand.
2. Pipe is associated with an increased frequency of breaks and leaks.
3. RPU has begun replacing segments of Techite pipe with steel CML&C pipe.
4. Approximately 4.4 miles of Techite remaining in RPU's system.



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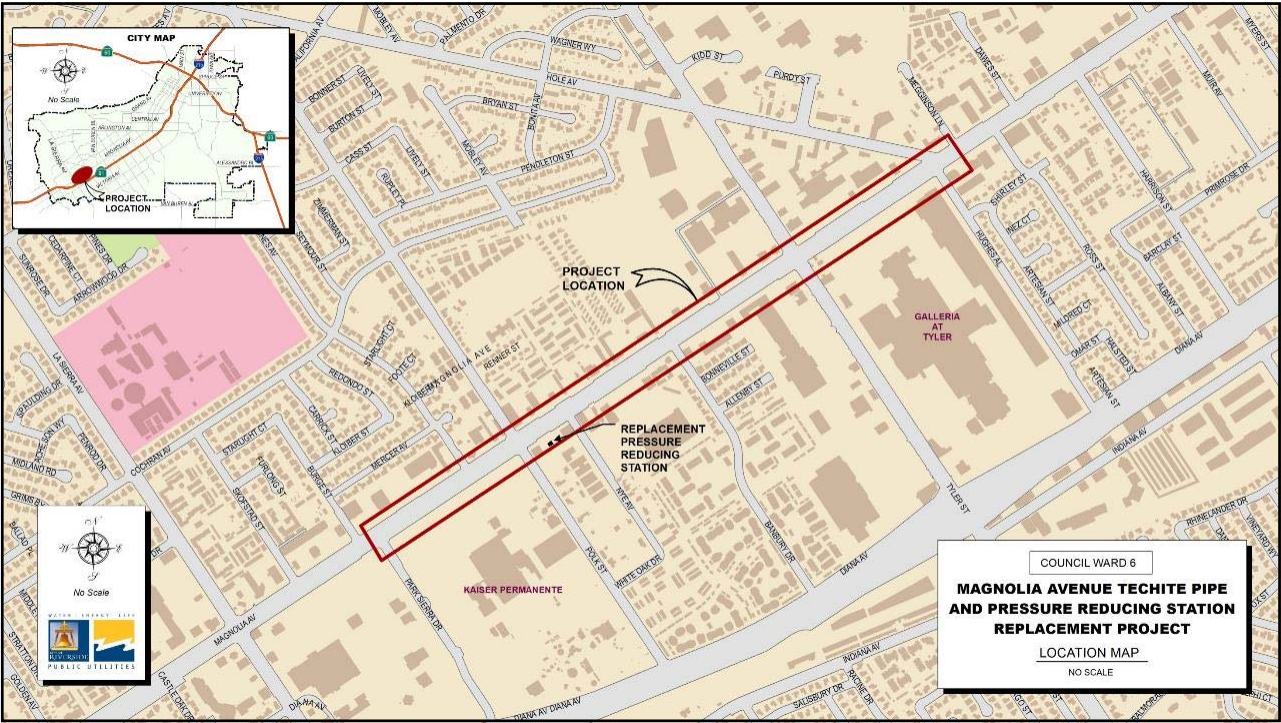
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BACKGROUND (CONT.)

5. Public Works Department street improvement project along Magnolia Avenue between Buchanan Street and Tyler Street.
6. Magnolia Avenue Techite Pipe and Pressure Reducing Station Replacement Project.
 - a) 5,500 feet of new 36-inch/42-inch CML&C Steel Pipe
 - b) 2,000 feet of new 12-inch ductile iron pipe
 - c) New pressure reducing station (to replace existing Polk and Magnolia PRSs)
7. January 8, 2018 – RPU Board awarded a contract for design and construction of exploratory pothole work; and approved capital expenditure of \$484,000 for Work Order No. 1612632 which included upfront costs for pipeline design





BACKGROUND (CONT.)

MAGNOLIA PRESSURE REDUCING STATION



BACKGROUND (CONT.)

POLK PRESSURE REDUCING STATION



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DISCUSSION

1. Funding for project is currently included in proposed fiscal year 2018-2019 budget as part of RPU's Utility 2.0 – Modified Option 1 Capital Improvement Program
2. In order to accommodate Public Works' construction schedule for construction and perform RPU's pipeline system connections, construction will need to begin early summer 2018.
3. Supplemental appropriation in the amount of \$5,216,000 needed to fully fund project design and construction to allow project to be advertised, bid, and awarded in time to start construction in the current fiscal year.



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DISCUSSION (CONT.)

4. Overall project cost for Techite Pipeline and Pressure Reducing Station is estimated at \$5,700,000.
5. Detailed breakdown of project costs along with recommendation to award the overall construction contract will be brought before RPU Board in the spring 2018 timeframe.



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RECOMMENDATIONS

That the City Council:

1. Authorize a supplemental appropriation in the amount of \$5,216,000 from the Water Fund Balance to fund the design and construction of the Magnolia Avenue Techite Pipe and Pressure Reducing Station Replacement Project; and
2. Appropriate expenditures in the amount of \$4,646,000 to the Public Utilities' Transmission Mains Account No. 6230000-470735 for pipeline construction, and in the amount of \$570,000 to the Public Utilities' Facility Rehabilitation Account No. 6230000-470803 for the design and construction of the pressure reducing station.



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