



# BID 8015 MAGNOLIA AVENUE SEWER FORCE MAIN REHABILITATION

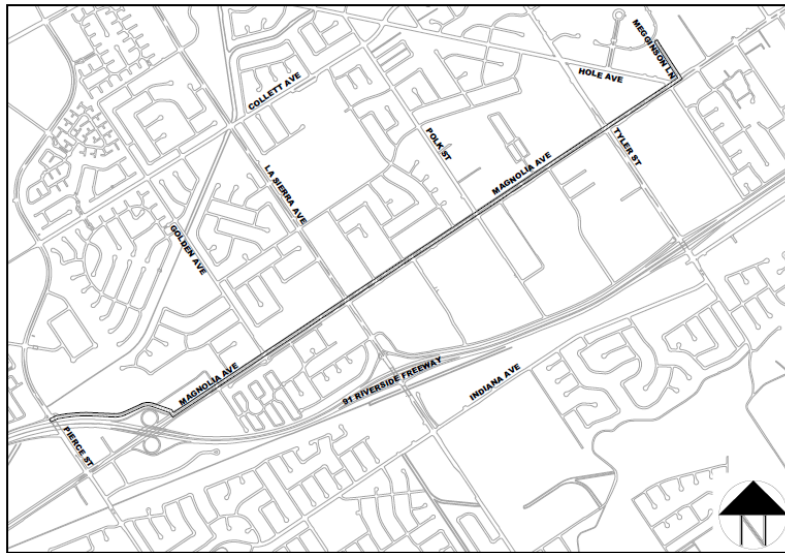
## Public Works Department

City Council  
March 12, 2024

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1

## LOCATION MAP



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2

2

## BACKGROUND

1. The Magnolia Avenue force main sewer pipe is a 1.9 miles of 24-inch Cement mortar lined and Coated (CML&C) pressurized sewer pipeline.
2. This pipe conveys approximately 25% of the City's flow.
3. On May 2, 2023, the City Council rejected Bid 7928 in which a Cured In Place Pipe (CIPP) liner was proposed to be installed inside the existing pipe. The bids were 32% to 38% over the Engineer's Estimate.



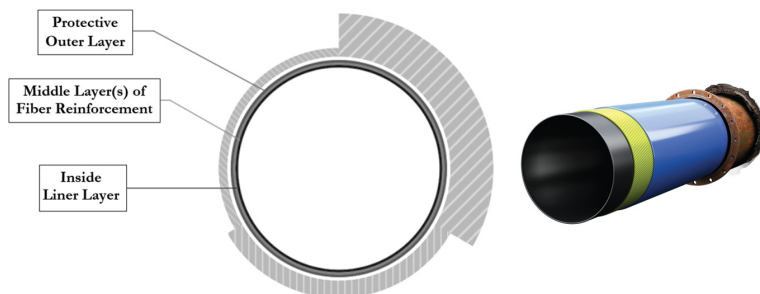
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3

## CURRENT PROJECT

The current Bid 8015 opted for the installation of a Flexible Fabric Reinforced Pipe (FFRP) inside the host pipe.



4

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4

## CURRENT PROJECT

### Advantages of FFRP:

- Ease of transportation—can be coiled onto reels and room temperature storage.
- Ease of installation—no steam or hot water required to cure.
- Long installation lengths through bends.
- High-pressure rating capacity.
- \$7,549,125 (CIPP) vs. \$6,885,400 (FFRP)



5

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5

## CURRENT PROJECT

1. Installation of 1.9 miles of 24-inch FFRP along Magnolia Avenue from Pierce Street to Megginson Lane.
2. Installation of access pits to facilitate the FFRP installation process.
3. Installation of air release valves to purge accumulation of air pockets inside the pressurized pipe.



6

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6

## STRATEGIC PLAN ALIGNMENT

### Strategic Priority No. 6 Infrastructure, Mobility and Connectivity

**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.

### Cross-Cutting Threads



Community Trust



Fiscal Responsibility



Sustainability &  
Resiliency



Equity



Innovation



7

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7

## RECOMMENDATIONS

1. Award a construction contract for Bid No. 8015 for the Rehabilitation of Magnolia Avenue Sewer Force Main to SAK Construction, LLC., of O'Fallon, Missouri, in the amount of \$6,885,400;
2. Authorize 10% change order authority in the amount of \$688,540.00 for Bid No. 8015 for the Rehabilitation of Magnolia Avenue Sewer Force Main to SAK Construction, LLC., for a total contract amount not to exceed \$7,573,940; and



8

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8

## RECOMMENDATIONS (CONT.)

3. Authorize the City Manager, or designee, to execute the construction contract with SAK Construction, LLC., including making minor and non-substantive changes, subject to the availability of budgeted funds.

