

UTILITIES Brighton

Sanitary Sewer Manhole Rehabilitation 2022

City Staff Representatives: Marc Johns, Interim Director of Utilities
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1

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Strategic Focus



STRATEGIC FOCUS AREA
Financially Responsible



STRATEGIC FOCUS AREA
Supportive, Sustainable Infrastructure

2

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Overview

- Project Background
- Manhole Locations
- Project Details
- Scope of Work
- Benefits of the Project
- Bid Process and Results
- Next Steps
- Questions

3

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Project Background

- Sanitary sewer manholes are an integral part of the infrastructure that continuously conveys wastewater to the wastewater plant to be treated
- Manholes are necessary for change in direction of gravity pipelines
- Also, like the name implies, manholes are access points for operational personnel to maintain, clean, and repair sanitary sewer pipelines to make certain that the wastewater system functions properly

4

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Project Background Cont.

- Manholes are typically constructed of concrete, with older manholes being built from brick and mortar
- Over time, manholes experience deterioration and corrosion from constant wastewater off-gassing
- If nothing is done to stop or prevent further corrosion, the structural integrity of manholes can be compromised requiring costly and disruptive replacement
- Over the last four years 509 manholes have been rehabilitated.

5

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Project Details

- Rehabilitate 197 manholes by using a multi-layered polymer lining method
- These manholes were selected based on an assessment of condition, age, and the volume of flow observed in each manhole
- Many of the City's oldest manholes located on the largest conveyance lines are to be rehabilitated in this project



Before



After

6

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Scope of Work

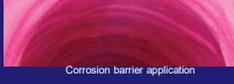
- Manholes cleaned by water blasting
- Apply moisture barrier and adhesion coat
- Apply surfacing to fill all voids and restore the surface
- Apply a top coat of hybrid-polyurea lining
- All 3 coats create a multi-layered polymer lining system



Moisture barrier application



Surfacing application



Corrosion barrier application

7

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Benefits

- Reduce O&M cost
- Prevents corrosion
- Eliminates infiltration
- Restores wall surfaces
- 100-year design life
- 10-year warranty
- Trenchless application



8

FINANCE
Procurement Division

Brighton

Procurement Summary

PROCUREMENT METHOD:
The City of Thornton an existing, competitively bid, Agreement with Concrete Conservation, LLC. The City of Brighton is authorized to piggyback onto Thornton's existing agreement with Concrete Conservation, LLC to procure the company's services based on the existing agreement with Thornton. Cooperative purchasing is encouraged when feasible and in the best interest of the City under Brighton Municipal Code section 3-8-40.

STAFF RECOMMENDATION:
Accept the quote submitted by Concrete Conservation, LLC via Cooperative Purchasing.



9

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Next Steps

- Staff is asking the council to approve the bid from Concrete Conservation Inc. for \$600,000.00

10

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Council Options

- Approve
- Reject

11