



MEMORANDUM

DATE: May 10, 2021

TO: Honorable Mayor and City Councilmembers
Dave Perrault, City Administrator

FROM: David Swearingen, Interim Public Works Director

SUBJECT: Lift Station 10 Rehabilitation Project

Budgeted Amount:	Actual Amount:	Funding Source:
\$180,000	\$339,400 (Engineer's Estimate)	Sanitary Sewer Fund

Council Should Consider

Motions to approve, table, or deny the following:

- Resolution 2021-027, Approving Plans and Specifications and Ordering Advertisement for Bids for the Lift Station 10 Project

All items need a simple majority for action unless otherwise noted.

Background/Discussion

The City's Capital Improvement Program identifies rehabilitation work for Lift Station No. 10 located near the intersection of Cleveland Avenue and County Road E2. The lift station has been in service for 31 years in the current configuration. Several improvements have been identified, including the potential need to replace aging pumps, check valves, air release valves and control panel. This lift station also encounters problems with sewer flow backing up into the upstream manhole due to the bottom elevation of the lift station wet well having minimal elevation drop from the upstream gravity sewer.

On June 22, 2020, the City Council approved professional services with Bolton & Menk for planning, design and construction administration. Since then, plans (Attachment A) and specifications have been developed and the project is ready for bidding.

The services from Bolton & Menk included an alternatives analysis to evaluate three options for improvements to Lift Station No. 10.

1. Rehabilitation of the existing lift station (\$223,000)
2. Full replacement of the lift station (\$419,000)
3. Installation of a grinder type station and force main (\$253,000)

Option 1 was chosen to move forward with as it was the most feasible solution at the lowest cost.

Budget Impact

The 2021 - 2025 Capital Improvement Program shows a budget of \$180,000 for this rehabilitation project, which was previously increased from \$100,000. Within the technical memo supplied by Bolton & Menk on October 8, 2020 (Attachment B), this work had an estimated cost of \$223,000 as seen in the table below.

Table 3 - Option 1 Cost Estimate	
Item	Cost
Mobilization	\$15,000
Allowance	\$10,000
Site Grading/Restoration	\$7,000
Existing Station Demo	\$6,000
Bypass Pumping	\$15,000
Pumps/Controls	\$87,000
Electrical	\$15,000
Control Panel Pad	\$4,000
Site Work (Seeding, Drive, etc.)	\$7,000
Valves, Piping, Misc.	\$20,000
Construction Subtotal	\$186,000
Contingencies (20%)	\$37,000
Construction Total	\$223,000

Now that the final plans and specifications have been developed, the most recent engineer’s estimate is \$290,000. The engineer believes this estimate is a bit strong but they’ve been seeing prices go up for equipment so they’ve included some inflationary costs. Design and Construction Administration fees for Bolton & Menk are \$49,400. Total estimated project cost is \$339,400 which will need to be covered by the Sewer Fund. The additional funds needed of \$159,400 will need to be factored in when creating the 2022-2026 CIP plan and determining the 2022 Sewer rates. Attachment D shows what was included in the 2021-2025 CIP for the Sewer Fund.

Attachments

- Attachment A: Project Plans
- Attachment B: Technical memorandum
- Attachment C: Resolution 2021-027
- Attachment D: Excerpts from 2021-2025 CIP for Sewer Fund