



MEMO TO: Mayor Vandernail and the Board of Trustees
FROM: Adam Cwiklin, Water and Wastewater Superintendent and
Russell Pennington, P.E., Public Works Director
DATE: 3/16/2022
SUBJECT: Sanitary Sewer Replacement

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Consideration of A Resolution Authorizing Town staff to award a contract Merrick and Company for Sanitary Sewer Replacement in the Amount of \$100,000. The costs estimate is \$88,717.00, with a contingency of \$12,283.00 for a total of \$100,000.

DEPARTMENT: Public Works

PRESENTER/PREPARER: Russell Pennington, Public Works Director
Adam Cwiklin, Water and Wastewater Superintendent

FISCAL INFORMATION:

Cost as Recommended: \$100,000
Balance Available: \$70,000
Fund: Wastewater, Engineering fees
Budget Line-Item Number: 55-40-330
New Appropriation Required: Yes

REQUESTED ACTION:

Approve the Resolution 2022-03-03 to award said contract, authorize the appropriate Town officer to execute said contract, and authorize Staff to expend contracted funds and contingency funds.

SUMMARY AND BACKGROUND OF SUBJECT MATTER:

Fraser anticipates upgrading the sanitary sewer main running from the trunk line east of Highway 40 to west of the railroad tracks in 2022/23. See map at end of the Memo.

This stretch of sewer main needs repair. It is a lined clay pipe that has capacity, flow, and I/I issues. This is a critical stretch of sewer main as it services the Town Hall, Public Works Facility, Fraser Elementary, and the Fraser Library. Upgrading the pipe is necessary. The project will replace lined clay pipes with modern materials, correct alignment issues to improve the flow and increase capacity to the FRODO area and west of the railroad. It will also reduce the quantity of I/I within Fraser's collection system.

SCOPE OF WORK:

Merrick and Company will perform two phases of the project. Merrick will complete engineering design and ensure the project is constructed in conformance with the approved plans. Each phase is described in greater detail below.

Final Design Phase

Final design will include preparation of construction plans and specifications that conform to Town of Fraser and industry standards and includes preparation of contract documents necessary for competitive bidding.

Specific tasks include:

1. Geotechnical services: we propose to subcontract geotechnical services including mobilizing a drill rig with large rock capabilities for two borings, observing two test pits, collecting soil samples for laboratory testing, and preparation of a separate report of soil and groundwater conditions pertaining to horizontal borings.
2. Prepare all necessary design calculations, designs, final drawings, and specifications as are reasonably needed to advertise and obtain competitive construction bids.
3. Complete site visits and field observations as needed for design.
4. Provide coordination for obtaining utility locates.
5. Submit progress drawings at approximate 60% and 95% design level.
6. Prepare and furnish copies of drawings, details, specifications, and other contract documents for final review by the Town.
7. Assist the Town in completing permits for the new sewer line construction under UP and Highway 40 ROWs, including any necessary construction easements. We will meet with the Colorado Department of Transportation to discuss the potential for less expensive open cut construction in the Highway 40 ROW.
8. Prepare basic documents related to construction contracts for review and approval by the Town. These may include contract agreement forms, instructions to bidders, general conditions and project special provisions, and advertisement for bids.
9. Prepare a final Engineer's opinion of construction costs.
10. Assist in advertising and securing bids, tabulation and analysis of bid results.
11. Furnish recommendations on the award of construction contracts.

Construction Phase

This work will include engineering related services as required to assist the Town to ensure the project is constructed in conformance with the approved plans and specifications, and Town criteria. We understand the Town may provide daily inspection and overall on-site construction

management. Merrick will aid with only those services so directed by the Town. To provide continuity we would propose that our construction manager, Eric Vaughan, manage our internal resources to meet the Town's inspection needs and schedules. Services could be provided in conformance with our existing Construction Management and Inspection Services contract.

Specific tasks include:

1. Conduct an on-site preconstruction meeting with the Contractor.
2. Complete site visits to observe construction progress and quality. We have assumed a visit every other week for 12 weeks, plus two additional visits for a pre-construction meeting and final inspection, for a total of 8 visits. As much as possible, site visits will be coordinated with other inspection services by Eric Vaughan to reduce travel and be cost effective.
3. Check construction and shop drawings submitted by the Contractor for compliance with design concepts.
4. Review and respond to requests for information (RFIs).
5. Review and make recommendations on Contractor pay applications.
6. Support the Town in contract closeout by inspecting the project to recommend for or against meeting substantial completion, preparing a punch list, and inspecting the project to recommend for or against meeting final completion.

Engineering Design	\$69,317
<ul style="list-style-type: none"> • Geotechnical Services: \$11,530 • Engineering: \$38,000 • Construction Administration: \$19,787 	
Survey/Easement	\$10,000
Railroad permit	\$9,400
Contingency	\$12,283
Total	\$100,000

The estimate for the project is \$88,717.00. The project funding includes contingency amounts amount of \$12,283.00 for a total of \$100,000.00 which can be used towards unforeseen changes during installation.

PROJECT SCHEDULE

Notice to proceed: March 17, 2022

Completion date: September 30, 2022

ATTACHMENTS:

Proposal for a Sewer Upgrade Design, Fraser Colorado

Subcontracted Geotech Proposal

Union Pacific Agreement 3312-26

STAFF RECOMMENDATION:

Motion to approve **Resolution No. 2022-03-03** authorizing the appropriate Town officer to contract Merrick and Company using the Engineering Fees (55-40-330) of the 2022 Wastewater Fund in an amount not to exceed \$100,000.00.

