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City Manager's Report
September 26, 2023, City Council Meeting
Prepared by: Cory Schiestel, Senior Civil Engineer
Item #: 7.7

Subject: Consider approving a construction contract for the replacement of three existing leaking sewer manholes located on Madrone Lane.

Recommendation: Adopt a Resolution:

1. Approving a construction contract with CE Cox Engineering, Inc. for the Inflow and Infiltration Reduction-Madrone Lane Manhole Replacement Project (CIP #418242) in an amount not to exceed \$40,500 for necessary equipment, services, and supplies to replace the three existing manholes located on Madrone Lane and authorizing the City Manager to execute the same; and
2. Authorizing the City Manager to execute the same and execute any necessary Contract Change Order(s) with CE Cox Engineering, Inc. up to \$25,000 for the project for a not to exceed aggregate amount of \$50,000. The said change order(s) shall be brought to the next available City Council meeting for either approval or ratification; and

Purpose: This item proposes to repair components of the City's sewer system located within a City sewer easement adjacent to Madrone Lane.

Strategic Plan Strategy: Infrastructure – Update and Maintain City Owned Infrastructure.

Background: In late spring of 2023, following a very wet winter when the ground water tables were peaking, staff performed CCTV inspections of various locations throughout the City's sewer collection system. A portion of the existing sewer system that flows to recently replaced Madrone and Giovanni lift stations was also an area that was inspected and it was discovered that 3 of the manholes in particular, are severely leaking, allowing groundwater to infiltrate the system directly through the manhole barrels and pipe connection points. Groundwater has continued to inflow through the winter and spring, which is subsequently requires pumping by the Mandrone/Giovanni lift stations to the top of Morrene Drive, causing unnecessary wear to the new lift station pumps, and ultimately flowing to the HCWRF. This source of Inflow and Infiltration (I&I) are creating an unnecessary additional load on the treatment plant. Replacement of these manholes when the groundwater table is high would be difficult and costly. End of summer/Beginning of fall is the ideal time to perform the work. Staff does not recommend waiting through another winter to replace these 3 manholes and considers this an urgent item to address as it possess an immediate threat to the collection system.

Discussion: The Public Works Department and the Engineering Department staff recently met to assess and discuss alternatives for correcting the I&I issue on Madrone Lane. It was determined that all 3 manholes require complete replacement to be certain that they will fully seal out groundwater I&I.

Currently the City is constructing the Hocking Street Sewer Replacement Project (CIP #42245) on Hocking Street. Given the similarity in nature of the work, staff requested the contractor, C.E. Cox General Engineering, Inc. (C.E. COX), to visit Madrone Lane and submit a proposal to replace the 3 leaking manholes. The estimated cost for these improvements is approximately \$40,500. Directing C.E. Cox to perform this work now would not only address the immediate threat, but would also provide significant savings for mobilization/demobilization costs since the contractor is already constructing sewer system improvements in the City. Inspections would be performed in-house by Engineering Department staff providing cost savings over consultant inspection services. Additionally, the work would be completed prior to the wet season when water tables rise and infiltration increases into the City system again.

Work for this project is scheduled to commence upon approval of the contract under this item. Once the manholes are constructed, the contractor will be required to perform vacuum testing per EID Technical Specification 33 01 30.13 to certify the new manholes as fully-sealed.

Options: Options for City Council's consideration include:

1. Proceed with the project as recommended by City staff.
2. Provide direction to staff to develop or refine the scope of the project and return for approval later.
3. Delay or defer the project.

Environmental: This project is categorically exempt under CEQA Guideline Section 21080, subdivision (b)(2).

Cost: The cost of the proposed construction contract with C.E. Cox General Engineering, Inc. is \$40,500.

Budget Impact: The City Council adopted the Fiscal Year 2017/2018 Capital Improvement Program Budget which appropriated \$100,000 for the Inflow & Infiltration Reduction project (CIP #41824). To date, the project has encumbered the following costs:

Description	Amount
CE Cox Engineering (Proposed)	\$ 40,500
Pipeline Inspection	4,262
City Personnel Costs	4,159
Total	\$ 48,921

As you can see, the \$48,921 in encumbered expenditures, including the proposed \$40,500 construction contract with CE Cox Engineering, is well within the \$100,000 project budget.



M. Cleve Morris, City Manager



Rebecca Neves, City Engineer

Attachments:

A: Resolution