

Agenda Date: 5/20/2020

Agenda Placement: 8E

Napa Sanitation District **Board Agenda Letter**

TO: Honorable Board of Directors

FROM: Timothy Healy - General Manager

NS-Technical Services/Engineer

REPORT BY: Simon Kobayashi, Associate Engineer - 707-258-6030

SUBJECT: Accept Completion of the Headworks Equipment Replacement Project (CIP 17726)

RECOMMENDATION

Adopt resolution accepting completion and authorize the General Manager to file the Notice of Completion at the Napa County Office of the Recorder for the Headworks Equipment Replacement Project (CIP 17726).

EXECUTIVE SUMMARY

On August 21, 2018, the District entered into a contract with Syblon Reid to furnish all labor, materials, equipment, and services required for the construction of the Headworks Equipment Replacement Project (CIP 17726).

This project rehabilitated or replaced existing assets in the treatment plant that had reached the end of their useful lives. The project successfully accomplished the following items:

- 1. Headworks screen replacements
- 2. Sluice replacement
- 3. Washer Compactor replacement
- 4. Grit Washer replacement
- 5. HVAC Improvements
- 6. 3W Improvements
- 7. Primary Influent Line CIPP Rehabilitation

The Headworks equipment was originally installed over 20 years ago. Being exposed to raw wastewater and hydrogen sulfide corrosion, the equipment was at the end of its useful life. The Headworks facility screening and grit removal are integral parts of the treatment process and this project provided for rehabilitation of the system and replacement of key equipment to promote reliable service.

On May 13, 2020, the General Manager submitted the Certificate of Completion to the Board Secretary certifying that the project was completed to his satisfaction. The total approved contract amount for this project is \$2,325,200.15. Currently 5% or \$116,260.01 is being held as retention on this project. The full retention amount will be released to the contractor 35-days after filing of the Notice of Completion with the Recorder and after NapaSan receives confirmation that all vendors and subcontractors have been paid in full.

The original contract was awarded for \$1,960,400. Total change orders for the project increased the contract amount by \$364,800.15 which is 18.6% of the original contract amount. There were six change orders that accounted for unexpected site conditions and modifications to the project scope. The largest change order was an owner-initiated change order to add the primary influent pipeline rehabilitation work to the contract. This change order was approved by the Board on February 20, 2019 and was anticipated \$352,872 (18% of the original contract amount), a summary on the work can be found in the Background section.

FISCAL & STRATEGIC PLAN IMPACT

Is there a Fiscal Impact?

No

ENVIRONMENTAL IMPACT

None.

BACKGROUND AND DISCUSSION

NapaSan's wastewater treatment plant was primarily constructed in the 1970s and 1990s. Many of the treatment plant components are subject to harsh environments, so they must be rehabilitated or replaced before they fail. Projects similar to this one are budgeted in future years in the ten-year capital improvement plan and will be further defined by the asset management program and the upcoming Wastewater Treatment Master Plan.

Change Order History - CIPP Lining of Primary Influent Pipe

In 2018, a section of corroded primary influent pipe within the gallery was replaced as part of the 2018 Treatment Plant Improvement Project (CIP 18736). While the treatment plant was shut down during the replacement of this pipe, staff took the opportunity to inspect the section of buried pipe between headworks and the gallery. Since this section of pipe was built in 1979 and is exposed to the same corrosive environment, staff found that the pipe is similarly deteriorated and in need of immediate repair. Due to the critical nature of this asset, staff immediately hired Carollo Engineers to conduct an alternatives analysis and design a repair for the pipe. Trenchless rehabilitation using a cured-in-place pipe (CIPP) liner was chosen as the most cost-effective repair method.

Since the headworks project was being constructed in the same area and requires plant shutdowns within the same timeframe necessary for the primary influent pipe rehabilitation, staff requested a quote from Syblon Reid to perform the pipeline rehabilitation. The work had to be performed within a specific timeframe (late April - early May) when plant influent flows are low and before peak recycled water season begins. Staff determined that if a competitive price could not be obtained from Syblon Reid then the project would be delayed by one year. After authorization from the Board to pursue the work, a competitive price was received and staff directed the Syblon Reid to proceed with the work.

SUPPORTING DOCUMENTS

- A . Certificate of Completion
- B . Completion Resolution
- C . Presentation Slides

Napa Sanitation District: Approve

Reviewed By: Timothy Healy