



Agenda Date: 5/2/2018
Agenda Placement: 8C

Napa Sanitation District Board Agenda Letter

TO: Honorable Board of Directors
FROM: Timothy Healy - General Manager
NS-Technical Services/Engineer
REPORT BY: Matthew Lemmon, Associate Engineer - 707-258-6004
SUBJECT: Accept Completion of the 2017 Collection System Rehabilitation Project (CIP 17708)

RECOMMENDATION

Adopt Resolution accepting completion and authorize the General Manager to file the Notice of Completion at the Office of the Recorder, Napa County, California for the 2017 Collection System Rehabilitation Project (CIP 17708).

EXECUTIVE SUMMARY

On March 21, 2017, the District entered into a contract with KJ Woods Construction, Inc. to furnish all labor, materials, equipment, and services required for the construction of the 2017 Collection System Rehabilitation Project (CIP 17708). On April 26, 2018, the General Manager submitted his 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 \$4,409,507.12. Currently 5% or \$220,475.36 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 the District receives confirmation that all vendors and subcontractors have been paid in full.

The original contract was awarded for \$4,728,000. Total change orders for the project decreased the contract amount by \$318,492.88 which is 6.7% of the original contract amount. There were two change orders that accounted for unexpected site conditions and owner-initiated changes that both added and subtracted scope from the project. The engineer's estimate of probable construction cost was \$5,200,000.

FISCAL IMPACT

Is there a Fiscal Impact? No

ENVIRONMENTAL IMPACT

None.

BACKGROUND AND DISCUSSION

The 2007 Collection System Master Plan (CSMP) identified \$120 million in capacity expansion projects as a result of the high amount of Infiltration and Inflow (I&I) that enters the collection system. The CSMP recommended an I&I Reduction Program to remove I&I from the system as an alternative to conducting capacity expansion projects.

The I&I Reduction Program findings indicate that certain areas in the collection system contribute much higher I&I than other areas. The areas defined within the scope of this project are sources of significant I&I and are in need of rehabilitation.

To reduce I&I, this Project completed the following scope of work:

1. Rehabilitated or replaced 29,877 linear feet (5.6 miles) of sewer main (2.1% of the total system);
2. Abandoned 1,360 linear feet of parallel sewer main that will save costs on future maintenance;
3. Replaced or rehabilitated 41 manhole or flush hole structures;
4. Rehabilitated or replaced 578 public laterals; and
5. Replaced or installed 473 cleanouts.

Staff performed construction management and inspection of this project. In the future, post-construction flow monitoring will be performed as part of the I&I Reduction Program to evaluate the effectiveness of this project.

NapaSan's sewer rehabilitation projects are typically performed one-to-three years in advance of the City's 10-mile paving program to avoid damaging newly paved streets. The majority of this project was performed immediately in advance of the City's paving program. However, pavement on certain streets in the neighborhood surrounding Hilltop Drive and Devita Drive was not scheduled for immediate replacement by the City. Due to the age (1940-1950) and condition of the clay sewer mains and brick manholes in this neighborhood, the presence of high groundwater, and the location upstream from sanitary sewer overflows, NapaSan decided to rehabilitate the sewer mains and perform additional pavement restoration. NapaSan partnered with the City Public Works Department to develop a solution that will rehabilitate the streets. The pavement restoration work will be performed under a separate contract from KJ Woods and is scheduled to occur during Summer 2018 when school is out of session to minimize impacts to residents.

SUPPORTING DOCUMENTS

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

Napa Sanitation District: Approve

Reviewed By: Timothy Healy