



Agenda Date: 12/4/2019

Agenda Placement: 7E

Napa Sanitation District Board Agenda Letter

TO: Honorable Board of Directors

FROM: Timothy Healy - General Manager
NS-Technical Services/Engineer

REPORT BY: Karl Ono, Associate Engineer - (707) 258-6013

SUBJECT: Accept Completion of the Upper Lateral Rehabilitation Pilot Project #4 (CIP 18703)

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 Upper Lateral Rehabilitation Pilot Project #4 (CIP 18703).

EXECUTIVE SUMMARY

On September 4, 2019, the District entered into a contract with Nor-Cal Pipeline Services, Inc. to furnish all labor, materials, equipment and services required for the construction of the Upper Lateral Rehabilitation Pilot Project #4 (CIP 18703).

The project is located in the vicinity of the intersection of Laurel Street and Roosevelt Street in west Napa. There are 27 properties in the sub-basin. Existing laterals at 15 of the properties were not rehabilitated because they had recently been installed or replaced with new plastic piping (PVC or ABS) by the property owners. Two properties were removed from the project because the condition of the existing laterals did not allow for rehabilitation without performing more extensive and costly repairs. Ten existing laterals were rehabilitated by this project with cured-in-place pipe (CIPP) to reduce groundwater infiltration. Twenty-five of the 27 properties within the project area are now either newer plastic material or have been rehabilitated.

The original contract was awarded for \$78,223. Total change orders for the project decreased the contract amount by \$21,853.25, which is 28% of the original contract amount. The reduction in contract price is due to the properties that were removed from the project.

On November 26, 2019, 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 \$56,369.75.

FISCAL & STRATEGIC PLAN IMPACT

Is there a Fiscal Impact? No

ENVIRONMENTAL IMPACT

None.

BACKGROUND AND DISCUSSION

The Collection System Master Plan project findings indicate that certain areas in the collection system contribute much higher inflow and infiltration (I&I) than other areas. The area defined as Basin L is a source of significant I&I. Upper (private) laterals are known to be a high contributor of I&I. This project is a pilot project that rehabilitated upper laterals for a sub-basin in Basin L using cured-in-place piping method.

The project area selected for the project is isolated (there are not other pipes flowing into the area) and the sewer mains and street laterals were rehabilitated by the 2017 Collection System Rehabilitation Project. Preconstruction flow monitoring was performed last winter to measure the base flow from the project area. Post-construction flow monitoring will be performed to measure the effectiveness (reduction in I&I) of the project. The effectiveness of this project will be used in planning future projects.

SUPPORTING DOCUMENTS

- A . Certificate of Completion - CIP 18703
- B . Completion Resolution - CIP 18703
- C . Area Map

Napa Sanitation District: Approve

Reviewed By: Timothy Healy