



Agenda Date: 10/7/2020

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

SUBJECT: Approve the Project, Concur with CEQA Determination, and Authorize the General Manager to Issue Notice Inviting Bids for the 2021 Collection System Rehabilitation Project (CIP 20703)

RECOMMENDATION

Approve the Project, concur with staff's determination that the Project is categorically exempt, and authorize the General Manager to issue Notice Inviting Bids for the 2021 Collection System Rehabilitation Project (CIP 20703).

EXECUTIVE SUMMARY

The Inflow and Infiltration (I&I) Reduction Program findings indicate that certain areas in the collection system contributed much higher I&I than other areas. Many of the areas defined within the scope of this project are a source of significant I&I, and sanitary sewer overflows have occurred downstream of the project areas in recent years. The project proposes to rehabilitate pipelines primarily by pipe bursting, with cured-in-place pipe (CIPP) lining and open-cut construction proposed in limited areas where pipe bursting is not feasible. The primary project area is generally bounded by Pueblo Avenue, Lincoln Avenue, Jefferson Street, and Soscol Avenue, and also includes Lincoln Avenue from California Boulevard to the Napa River. The attached project map includes an overview of the project location.

The project area contains deteriorated infrastructure that is in need of rehabilitation for I&I or rehabilitation and replacement (R&R) purposes in advance of planned paving projects. NapaSan's sewer rehabilitation program is structured to minimize negative impacts to pavement conditions whenever possible. The project area is on the City's upcoming Measure T and Local Streets paving schedules.

The general scope of the project includes the following:

- 1 20,700 LF (3.9 miles) of sewer main will be rehabilitated through pipe bursting.

- | 700 LF (0.13 miles) of sewer main will be rehabilitated through cured-in-place pipe (CIPP) lining.
- | 100 LF (0.02 miles) of sewer main will be removed and replaced by open-cut construction to address issues that cannot be fixed by pipe bursting or CIPP lining.
- | 74 manholes and flush holes will be rehabilitated or replaced.
- | 603 laterals are included and will be rehabilitated through pipe bursting, CIPP lining, or replaced by open cut.

Due to uncertainty surrounding construction costs given the current market conditions, staff has separated the project into a base bid and two bid alternates in an effort to award as much work as possible within the budgeted amount. The project will include a total of 4.1 miles of pipeline (1.5% of the total system) for the base bid and bid alternates. The engineer's estimate of probable construction cost is \$6,350,000 for the base bid, \$530,000 for Bid Alternate A, and \$630,000 for Bid Alternate B.

The contractor will have 290 calendar days to substantially complete the project from Notice to Proceed. Notice to Proceed is expected in December 2020 and construction is expected to be complete by the end of October 2021. District staff will perform inspection of this project.

Plans are available for review in NapaSan's Administrative Office and will be available at the NapaSan Board meeting on October 7, 2020.

FISCAL & STRATEGIC PLAN IMPACT

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	The project is budgeted in the FY 20/21 and 21/22 Capital Improvement Program. The current project budget is \$6,195,800. Unused budget from the 2020 Collection System Rehabilitation Project (CIP 19703) will be transferred to the 2021 Project, which will provide enough funding to meet the engineer's estimate for the base bid.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	This project will rehabilitate portions of the collection system that have been previously identified as significant sources of I&I. The project will result in a reduction of I&I flows in the collection system and ultimately to the treatment plant.
Is the general fund affected?	Yes
Future fiscal impact:	Construction will be completed in FY 21/22. Unused budget in this fiscal year will be carried forward into next fiscal year.
Consequences if not approved:	The I&I within the project boundaries will stay at current levels in the collection system and increase over time. Sewer mains that are nearing or have reached their service lives will continue to stay in service, requiring increased maintenance and emergency repairs. Streets that are scheduled for paving in the near future will be paved prior to sewer rehabilitation work.
Additional Information:	None.

ENVIRONMENTAL IMPACT

Staff performed a preliminary CEQA review of this project and determined the project is Categorical Exempt. This project consists of rehabilitating and replacing existing sewer involving negligible expansion of capacity, which corresponds to Categorical Exemption 15302 (c) of the California Environmental Quality Act (CEQA) Guidelines. If the Board concurs with this determination, staff will file the attached Notice of Exemption.

BACKGROUND AND DISCUSSION

Pipe-bursting is NapaSan's preferred technology for rehabilitating sewer pipes because it results in a longer-lasting and more water-tight system than other trenchless technologies. Pipe-bursting is more expensive than cured-in-place pipe (CIPP) but NapaSan has determined that the extra cost is worth it. NapaSan has not used pipe-bursting for asbestos cement pipes (ACP) in the past due to Bay Area Air Quality Management District (BAAQMD) regulations. However, other sewer agencies in California and in other parts of the country have successfully completed ACP pipe-bursting projects with the approval of their local air quality management districts.

For the 2021 Collection System Rehabilitation Project, NapaSan has obtained permission from the BAAQMD to conduct a pilot project for pipe bursting ACP. NapaSan will conduct monitoring and testing consistent with projects performed by other agencies to make sure the work is being done safely. Depending on the results of this pilot project, NapaSan may conduct similar projects in the future.

SUPPORTING DOCUMENTS

- A . Notice of Exemption
- B . Project Map
- C . Presentation Slides

Napa Sanitation District: Approve

Reviewed By: Timothy Healy