



Agenda Date: 12/2/2020

Agenda Placement: 8A

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: Award Construction Contract for the 2021 Collection System Rehabilitation Project (CIP 20703)

RECOMMENDATION

Award the construction contract (base bid plus bid alternates) for the 2021 Collection System Rehabilitation Project (CIP 20703) to KJ Woods Construction, Inc. for the bid amount of \$4,918,000 and authorize the General Manager to execute the Agreement with the Contractor and issue the Notice to Proceed, when appropriate.

EXECUTIVE SUMMARY

On November 17, 2020, NapaSan received six bids for the 2021 Collection System Rehabilitation Project (CIP 20703). The engineer's estimate of probable construction cost for the project was \$6,600,000. KJ Woods Construction, Inc. is the lowest qualified bidder in the amount of \$4,918,000 which is 25% lower than the engineer's estimate.

The second lowest bid was submitted by Darcy & Harty Construction, Inc. in the amount of \$5,084,316 which is 3% higher than the low bid. The high bid was submitted at \$7,909,969.

The majority of bids received for this project were significantly below the engineer's estimate, which staff believes may be due to a competitive bidding climate. Unit prices for most items were generally consistent with past results, but pricing for items related to pipe bursting sewer laterals was lower than expected.

The project is comprised of a base bid and two bid alternates. The bid alternates include additional sewer rehabilitation work along Lincoln Avenue between California Boulevard and the Napa River. Including this scope of work as an alternate provided NapaSan with the flexibility to withdraw the scope from the project if bid results were unfavorable. Since the bids received were competitive and the pricing was better than expected, staff recommends award of the total project. A summary of bids is attached.

Notice to Proceed is expected to be issued in December 2020 and construction is expected to begin in March 2021. The Contractor has 290 calendar days to substantially complete the project from Notice to Proceed.

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 the proposed FY 21/22 Capital Improvement Program. The project budget is \$6,195,800.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	This project will rehabilitate portions of the collection system that are in need of repair and 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?	No
Future fiscal impact:	Construction will be completed in FY 21/22. Unused budget in the current 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

The project was previously determined to be Categorical Exempt by the Board on October 7, 2019. A Notice of Exemption was filed with the Napa County Recorder on October 14, 2020.

BACKGROUND AND DISCUSSION

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 and cured-in-place pipe (CIPP) lining. Open-cut construction will be used when trenchless methods are not feasible.

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) limitations. 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.

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:

- | 14,000 LF (2.7 miles) of sewer main will be rehabilitated through pipe bursting.
- | 5,000 LF (0.9 miles) of sewer main will be rehabilitated through cured-in-place pipe (CIPP) lining.
- | 3,100 LF (0.6 miles) of sewer main will be rehabilitated through sliplining.
- | 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 trenchless rehabilitation.
- | 81 manholes and flush holes will be replaced, rehabilitated, or abandoned.
- | 433 laterals are included and will be rehabilitated through pipe bursting, CIPP lining, or replaced by open cut construction.

The project will include a total of 4.2 miles of pipeline (1.56% of the total system).

The engineer's estimate of probable construction cost for the project is \$6,600,000. At the time of project approval, the engineer's estimate was \$7,510,000. Prior to bidding, the project scope was modified, which caused the engineer's estimate to decrease.

NapaSan staff will perform inspection and Psomas will provide construction management services for this project.

SUPPORTING DOCUMENTS

A . Bid Results

B . Presentation Slides

Napa Sanitation District: Approve

Reviewed By: Timothy Healy