



Agenda Date: 2/7/2018
Agenda Placement: 8B

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 2018 Collection System Rehabilitation Project (CIP 18705)

RECOMMENDATION

Award the construction contract base bid for the 2018 Collection System Rehabilitation Project (CIP 18705) to Southwest Pipeline and Trenchless Corporation for the bid amount of \$4,719,546 and authorize the General Manager to execute the Agreement with the Contractor and issue the Notice to Proceed, when appropriate.

EXECUTIVE SUMMARY

On January 26, 2018, the District received 2 bids for the 2018 Collection System Rehabilitation Project (CIP 18705). The engineer's estimate of probable construction cost for the project was \$4,800,000. Southwest Pipeline and Trenchless Corp. is the lowest qualified bidder in the amount of \$4,719,546 which is 2% lower than the engineer's estimate.

The second lowest bid was submitted by Michels Corporation in the amount of \$7,961,073 which was the high bid, and is 69% higher than the low bid.

The project is comprised of a base bid and bid alternate. The bid alternate was created due to staff's interest in a new technology for lateral rehabilitation (T-liner method). NapaSan and other neighboring agencies do not yet have experience with this new technology. Since the unit pricing for the bid alternate received were not cost effective (275% higher per lateral than the base bid method), it is recommended to award the contract for the base bid and not the bid alternate. A summary of all total bids is attached.

Notice to Proceed is expected to be issued in late February 2018 and construction is expected to begin in March 2018. The contractor has 220 calendar days to substantially complete the project from Notice to Proceed.

FISCAL IMPACT

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|-----------------------------------|--|
| Is there a Fiscal Impact? | Yes |
| Is it currently budgeted? | Yes |
| Where is it budgeted? | The project is budgeted in the FY 2017-2018 and the proposed FY 2018-2019 Capital Improvement Program. |
| 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, particularly in areas upstream of historical overflow locations, and ultimately to the Plant. |
| Is the general fund affected? | No |
| Future fiscal impact: | Construction will be completed in FY 2018-2019. The project cost budgeted 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. The pipelines selected for rehabilitation are located in basins upstream of historical overflow locations, and increased I&I within these areas could lead to more frequent and sever overflow issues. The pipelines and manholes that are in need of repair will continue to degrade and will result in an increased probability of failure. |
| Additional Information: | |

ENVIRONMENTAL IMPACT

The project was previously determined to be Categorical Exempt by the Board on December 6, 2017. A Notice of Exemption was filed with the Napa County Recorder on December 7, 2017.

BACKGROUND AND DISCUSSION

The 2007 Collection System Master Plan (CSMP) identified \$120 million in sewer 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 sewer 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. The CSMP proposes to rehabilitate pipelines by pipe bursting, slip lining, cured-in-place pipe (CIPP) lining, and replace pipelines by open cut construction.

The general scope of this project includes the following:

- | 32,000 LF (6.1 miles) of sewer main will be rehabilitated through cured-in-place pipe (CIPP) lining.
- | 25 manholes or flush holes will be rehabilitated or replaced.

- | 600 lower laterals are included and will be rehabilitated through CIPP lining or replaced by open cut construction.

The project will include a total of 6.1 miles of pipeline rehabilitation/replacement (2.2% of the total system).

The Contractor has 220 calendar days to substantially complete the project from Notice to Proceed. Notice to proceed is expected in late February 2018 and construction is expected to be complete by the end of October 2018. District staff will perform construction management and inspection of this project. At the completion of this project, post construction flow monitoring will be performed as part of the I&I Reduction Program to evaluate the success of the project.

SUPPORTING DOCUMENTS

- A . Bid Results
- B . Presentation Slides

Napa Sanitation District: Approve

Reviewed By: Timothy Healy