Agenda Item #7.2
For Board Meeting of: July 18, 2019

CITY OF SANTA ROSA
BOARD OF PUBLIC UTILITIES

TO: BOARD OF PUBLIC UTILITIES
FROM: LORI URBANEK, DEPUTY DIRECTOR OF ENGINEERING SERVICES, CAPITAL PROJECTS ENGINEERING
JOE SCHIAVONE, DEPUTY DIRECTOR OF LOCAL OPERATIONS, SANTA ROSA WATER
SUBJECT: CONTRACT AWARD – REHABILITATE MATANZAS SIPHONS

AGENDA ACTION: MOTION

RECOMMENDATION

It is recommended by the Transportation and Public Works Department and the Water Department that the Board of Public Utilities, by motion, approve the project and award Construction Contract No. C02190 in the amount of $3,449,500.00 to the lowest responsive bidder, SAK Construction, LLC, of O'Fallon, Missouri, to Rehabilitate Matanzas Siphons, approve a 15% contingency, and authorize a total contract amount of $3,966,925.00.

EXECUTIVE SUMMARY

This motion will award a construction contract in the amount of $3,449,500.00 to the lowest responsive bidder, SAK Construction, LLC, of O'Fallon, Missouri, approve a 15% contract contingency, and authorize a total contract amount of $3,966,925.00, to Contract No. C02190, Rehabilitate Matanzas Siphons.

BACKGROUND

This project will rehabilitate the aging wastewater trunk siphon that crosses under Matanzas Creek. The siphon, which was constructed in 1953, consists of four parallel pipes: an 8" asbestos concrete (AC) pipe and three larger concrete pipes (a 12" pipe, an 18" pipe, and a 24" pipe). The project will utilize trenchless cured in place-pipe (CIPP) lining technology on the three larger pipes and the 8" AC pipe, which was originally constructed to convey low flows but is not needed, will be abandoned in place. The inlet and outlet structures will also be assessed during construction and repaired as directed by the engineer.

In August 2017, a section of the 12" pipe collapsed under Hoen Avenue. Local Operations replaced an approximately 10-foot section of the concrete pipe, as an immediate, interim

repair. The final project was then scoped and prioritized for construction.

From October 2017 through October 2018, engineering and operational resources were heavily dedicated to responding to the 2017 Tubbs Fire as well as the subsequent recovery activities. During this time, the wastewater flows in the Matanzas Creek Siphon were also being analyzed to determine if the lining of the trunk could be accomplished using a passive bypass system. A passive bypass would allow the contractor to utilize the existing barrels to bypass flows during construction instead of requiring the construction of an above-ground, pumped system. The utilization of a passive bypass could potentially save millions of dollars when compared to the cost of an above ground bypass system; however, the passive system was determined to be infeasible.

The rehabilitation of the Matanzas Creek Siphon was approved in the '18/19 fiscal year budget and in November 2018, a consultant was selected to complete the design. The design was completed in June 2019 and the project was advertised for bid. It takes approximately three months from when a project is advertised to start of construction, which means that a project advertised in June would likely commence in September and continue through the wet-weather season into October and November. Due to the construction complications associated with wet-weather flows, sewer projects are not typically advertised in June. However, since a failure had previously occurred on the Siphon and to minimize the risk of additional failures, the decision was made to bid the project.

The bid documents are structured such that the contractor will be required to construct a bypass system that can convey peak wet-weather flows. The Contractor will then place the system on bypass and attempt to line the barrels of the siphon in advance of wet-weather. If early rains are experienced and the Contractor is unable to complete the lining, the bypass system will be in place for the duration of the winter. In the event that the Siphon is not lined prior to the wet season and a trunk failure occurs, the City will direct the Contractor to both mobilize pumping units and operate the bypass system in conjunction with any repair efforts.

PRIOR BOARD OF PUBLIC UTILITIES REVIEW

Not applicable

ANALYSIS

This project was advertised on June 25, 2019, and one bid was received on July 11, 2019. The low bid was approximately 72.31% above the Engineer's Estimate of $2,001,897.00. Construction is anticipated to begin in August 2019.

While thirteen prime contractors viewed the bid documents, only two contractors took the required steps to qualify themselves as bidders. SAK was the only contractor to attend the pre-bid meeting and ultimately the only contractor to bid on the work. It is likely that two main factors contributed to the low number of bidders and the high bid, (1) the

uncommonly late bidding of the project and (2) the complexities and uncertainties associated with the atypical bypassing of wet weather flows.

FISCAL IMPACT

Approval of this contract has no additional impact on the budget. Funds for this project have been previously appropriated with the Capital Improvement Program budget.

ENVIRONMENTAL IMPACT

This action is statutorily exempt from the California Environmental Quality Act (CEQA), pursuant to CEQA Guideline sections 15282 (k) and 15302 (c).

BOARD/COMMISSION/COMMITTEE REVIEW AND RECOMMENDATIONS

Not applicable

ATTACHMENTS

- Attachment 1 – Summary of Bids
- Attachment 2 – Location Map

CONTACT

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