



CITY OF SAN MATEO

City Hall
330 W. 20th Avenue
San Mateo CA 94403
www.cityofsanmateo.org

Agenda Report

Agenda Number: 27

Section Name: {{section.name}}

Account Number: 72-4674

File ID: {{item.tracking_number}}

TO: City Council
FROM: Drew Corbett, City Manager
PREPARED BY: Public Works Department
MEETING DATE: September 19, 2022

SUBJECT:

2022 Citywide Sanitary Sewer Cleaning and Inspection: Large Diameter Pipes Project – Contingency Amendment

RECOMMENDATION:

Approve an increase to the contingency reserve associated with the Pipe and Plant Solutions, Inc. agreement for the 2022 Citywide Sanitary Sewer Cleaning and Inspection – Large Diameter Pipes Project in an amount of \$55,000 for a new total contingency in the amount of \$110,000, resulting in a new total contract amount of up to \$478,631; and authorize the Public Works Director to issue change orders within the contingency amount.

BACKGROUND:

The City regularly performs cleaning and video inspections of all its sanitary sewer mains to meet the collection system management goals of the Sanitary Sewer Management Plan. The objectives are to maintain the sewer mains and manholes by removing debris that may cause backups, and to perform video inspections of the pipes and manholes for condition assessment.

The 2022 Citywide Sanitary Sewer Cleaning and Inspection – Large Diameter Pipes Project (Project) encompasses cleaning and video inspection of approximately 22,670 linear feet of sewer mains larger than 12 inches in diameter and 51 sewer manholes located primarily along Highway 101 North-bound, Highway 101 North-bound frontage roads, 16th Avenue between Caltrain tracks and Highway 101, and alongside the Caltrain tracks between 21st Avenue and 16th Avenue.

Council approved an agreement for the Project with Pipe and Plant Solutions, Inc. on May 16, 2022 in the amount of \$368,631; established a contingency of \$55,000; and authorized the Public Works Director to execute the agreement and issue change orders within the contingency amount. The contingency reserve was established to address and mitigate potential unknowns that may arise during construction and was approximately 15% of the agreement value. Contractor activities began July 11, 2022.

In the scope of cleaning a sewer, high velocity hydraulic cleaning equipment is used to scour the pipes and remove roots, debris, and sand from the pipe. The scoured debris is collected for hauling and disposal. Prior to advertisement and award, staff estimated a total of 20 cubic yards (CY) of debris to be disposed. This disposal quantity was based on debris disposal quantities from other annual sewer basin cleaning projects for pipelines smaller than 12 inches in diameter.

As of August 24, 2022, 48% of the Project cleaning and inspection of sewer mains has been completed; however, 60 CY of debris has been collected for disposal – an amount larger than anticipated. At this rate, staff and the contractor estimate the Project will need to dispose of an additional 63 CY of debris to complete the remainder of the Project. Staff underestimated the total debris disposal quantity, likely due to the larger diameter sanitary sewer pipes (up to 48 inches) not being cleaned as frequently as sewers smaller than 12 inches (every 10 years vs. 5 years), and larger pipes having slower flow rates that allow more settling of debris in the pipe. Both of these factors made estimating disposal amounts

difficult during design of the project.

The existing contingency reserve will not be sufficient to fund the additional debris disposal costs and cover any other unforeseen conditions. To reduce contract time extensions and provide flexibility for staff to negotiate contract change orders in a timely manner, staff recommends increasing the contingency reserve by an additional \$55,000, for a new contingency reserve total of \$110,000.

BUDGET IMPACT:

The initial authorized agreement with Pipe and Plant Solutions, Inc. was in the amount of \$368,631. The original contingency reserve established was \$55,000. This request increases the contingency by \$55,000 to a total of \$110,000. Sufficient funding for this additional contingency is available in the Large Diameter Sewer Cleaning project.

ENVIRONMENTAL DETERMINATION:

The City prepared a Final Programmatic Environmental Impact Report (Final PEIR) in accordance with the California Environmental Quality Act (CEQA) (SCH No. 2015032006). Council on June 6, 2016, certified the PEIR. In accordance with CEQA, the Final PEIR serves as the primary environmental compliance document for the implementation of the Clean Water Program. The City prepared Addenda to the Final PEIR that was approved on July 16, 2018 (Addendum 1) and April 15, 2019 (Addendum 2). This work is within the scope of the Project evaluated in the PEIR and Addendum.

NOTICE PROVIDED

All meeting noticing requirements were met.

ATTACHMENTS

None

STAFF CONTACT

Laura Webb, Associate Engineer
lwebb@cityofsanmateo.org
(650) 522-7322

Deryk Daquigan, Engineering Manager
ddaquigan@cityofsanmateo.org
(650) 522-7287