



DATE: December 7, 2021

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22 – Amend Professional Design Services Agreement**

RECOMMENDATION

Authorize the City Manager or designee to amend the professional design services agreement with BKF Engineers for Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22, increasing compensation by \$138,000 for a total contract amount of \$878,000.

BACKGROUND

Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22, are infrastructure maintenance projects that replace aging and undersized water mains, sewer mains, services, and laterals. The water and sewer mains are selected for replacement based on age of the pipe, maintenance records, and failure history.

On [April 13, 2021](#), Council approved a design services agreement with BKF Engineers of Redwood City (BKF) for design work for Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22. The current sewer replacement locations are along El Camino Real from State Route 85 to Shoreline Boulevard and Castro Street from El Camino Real to Villa Street (see Figure 1).

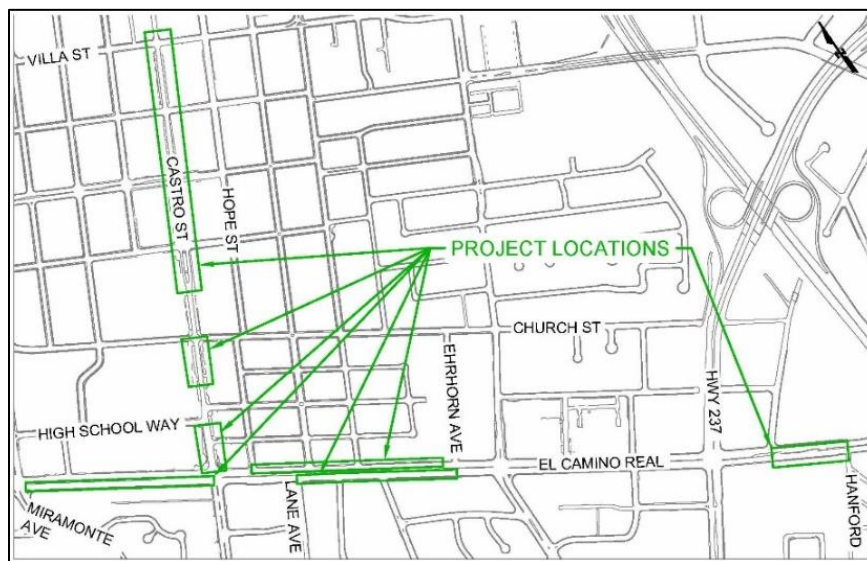


Figure 1: Current Project Locations

ANALYSIS

The current sewer main replacement scope of work on Castro Street includes the 200 and 300 blocks of Castro Street but not the 100 block of Castro Street between Villa Street and West Evelyn Avenue. Castro Street was chosen as a sewer main replacement location due to high maintenance frequency from blockages, age, poor pipe condition, and pipe sizes no longer being adequate.

Due to the potential conversion of the 100, 200, and 300 blocks of Castro Street into a pedestrian mall, staff recommends adding the 100 block of Castro Street and Wild Cherry Lane to this project. This added scope will reduce future construction impacts to the 100 to 300 blocks of Castro Street by packaging all sewer main improvements in the same project. This will also better prepare these three blocks for the potential interim and long-term pedestrian mall improvements.

There are two parallel existing sewer mains on Castro Street between California Street and West Evelyn Avenue. One runs within the street, and the other runs on the west side of the street under the sidewalk. Based on field investigations and modeling analysis, capacity and maintenance of the Castro Street sewer system will be enhanced with the following improvements:

- Upsizing the existing sewer main from 10" to 12" within the center of the street on the 100 block of Castro Street between Villa Street and West Evelyn Avenue, and 12" to 15" between the West Evelyn Avenue intersections on the east and west sides of Castro Street.

- Abandoning the existing sewer main under the west sidewalk of Castro Street between California Street and West Evelyn Avenue as it was identified the main had very few sewer lateral connections. The laterals would instead connect to the new main in the center of the street. Eliminating one sewer main reduces operations and maintenance efforts and costs.

Staff also noted nonstandard sewer laterals from the businesses on the 100 block of Castro Street that connect to the main on Wild Cherry Lane. These nonstandard laterals are impacted by fats, oils, and grease, and the main requires frequent flushing. Replacing the laterals and main on Wild Cherry Lane will alleviate frequent maintenance activities in the downtown area.

Figure 2 summarizes the locations and extents of the additional work.

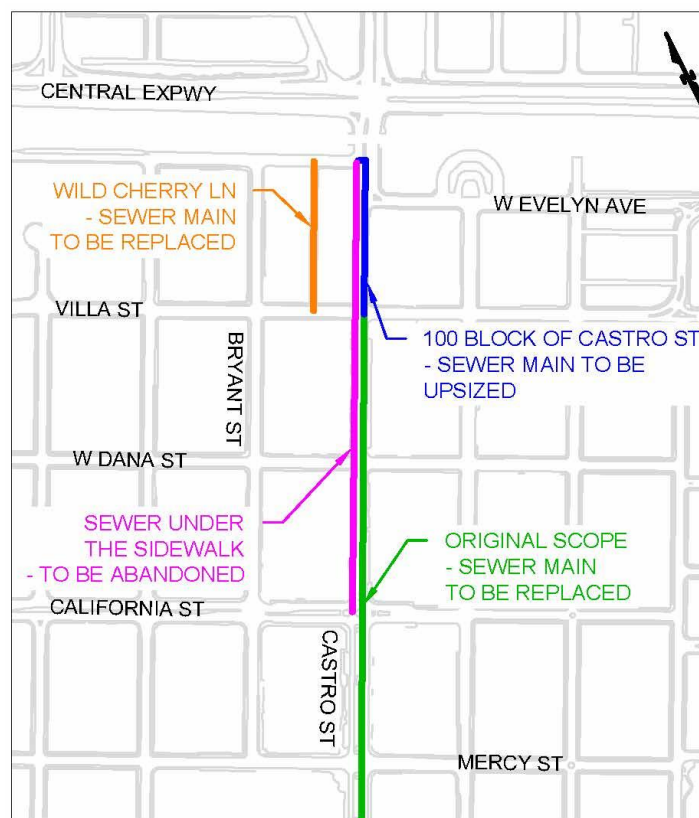


Figure 2: Additional Project Scope

Project construction is scheduled for fall 2022. Although the temporary closure of the 100 to 300 blocks of Castro Street may be extended to January 2023 and may become permanent after that through compliance with the Pedestrian Mall Law, businesses are no longer restricted to outdoor dining only due to the pandemic. Therefore, staff anticipates being able to work with the businesses using the outdoor space to adjust their

use as needed until the construction is completed. Staff will also evaluate the feasibility of the trenchless sewer main replacement method and construction hours that will help to further minimize impacts to businesses.

FISCAL IMPACT

The existing contract is funded with \$740,000 from Project 19-21 (\$489,298 from the Water Fund, including Water Capacity Fees) and Project 19-22 (\$250,702 from the Wastewater Fund). The additional work is for the sewer system, which is proposed to be funded from Miscellaneous Sewer Main Replacement, Project 19-22. Project 19-22 is funded with \$1,617,000 from the Wastewater Fund and has sufficient funding for the recommended design service amendment of \$138,000. With the amendment, the contract with BKF Engineers will have a not-to-exceed total contract amount of \$878,000.

ALTERNATIVES

1. Do not approve the increase in design service funding for the additional sewer main replacement locations.
2. Provide other direction.

PUBLIC NOTICING – Agenda posting.

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