



COUNCIL REPORT

DATE: May 24, 2022

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Miramonte Water and Sewer Main Replacement, Projects 21-21 and 21-22—Amend Professional Design Services Agreement**

RECOMMENDATION

Authorize the City Manager or designee to amend the professional design services agreement with BKF Engineers to include design services for sewer main improvements on Miramonte Avenue and increase compensation by \$125,000 for a total contract amount of \$410,000.

BACKGROUND

The City annually funds projects to replace deteriorated or undersized water and sewer mains using nondiscretionary annual Capital Improvement Program projects entitled Miscellaneous Water Main/Service Line Replacement and Miscellaneous Storm/Sanitary Sewer Main Replacement. Candidates for replacement are selected based on various factors, including age, pipe material, history of breaks, and size. If the water and sewer mains in a corridor are both due for replacement and/or upgrades, staff will combine the work into a single project.

On April 13, 2021, Council approved a design service agreement with BKF Engineers of Redwood City (BKF) for design work for the Miramonte Avenue Water Main Replacement, Project 21-21. The approved scope includes replacement of approximately 3,260 linear feet of substandard water main along Miramonte Avenue, between Cuesta Drive and Castro Street, prior to construction of the street resurfacing and pedestrian and bicycle improvements (Miramonte Avenue Improvements, Project 20-01) along the same roadway segment (Figure 1).

ANALYSIS

As final design of the Miramonte Water Main Replacement was nearing completion, the City's hydraulic model update for the water and sewer systems was also being finalized for the Water and Sewer Master Plan Updates, Project 20-43. The recent analysis identified the need to upsize approximately 1,730 linear feet of the existing sewer main on Miramonte Avenue between Sladky Avenue and Hans Avenue (Figure 1). In addition, recently completed closed-circuit television (CCTV) data shows several cracked or broken locations along the sewer mains on Miramonte Avenue. Because the limits of the recommended sewer main work coincide with the water main

replacement, staff recommends combining the water and sewer improvements to minimize community impacts, achieve economy of scale, and provide administrative efficiency.

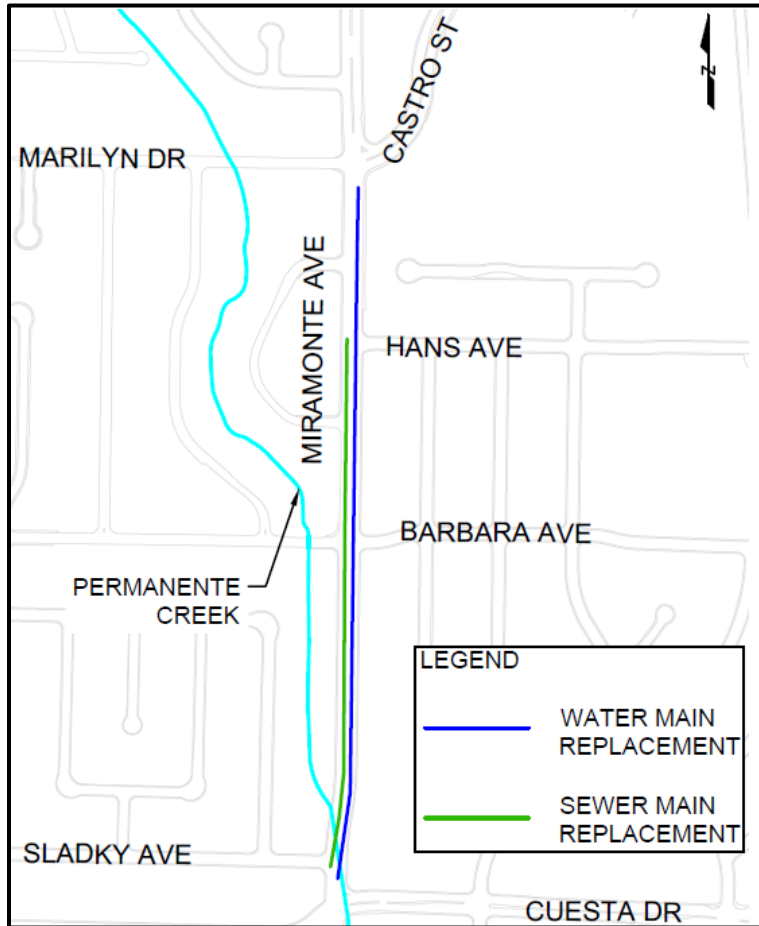


Figure 1: Location Map

Based on preliminary research and data, staff found that while some localized open-trench construction cannot be avoided, trenchless sewer construction technique is feasible for the majority of the sewer pipeline replacement. This will help to streamline design efforts and optimize the use of data already collected for the water main design. Staff has determined that the sewer main replacement work can be incorporated into the design and construction of the water main replacement project without delaying the planned Miramonte Avenue Improvements (Project 20-01).

If the recommended action is approved by Council, the water and sewer main replacement design will be completed for bidding in fall 2022 for construction to start at the end of 2022 and complete in spring 2023. This will align with the planned construction of the Miramonte Avenue Improvements project, which is to begin in summer 2023.

FISCAL IMPACT

The existing design services agreement with BKF is funded with \$285,000 with Miscellaneous Water Main Replacement, Project 21-21, from the Water Fund, including water capacity fees. The additional sewer design is proposed to be funded from the Miscellaneous Sewer Main Replacement, Project 21-22. Project 21-22 is funded with \$1,482,000 from the Wastewater Fund and has sufficient funding for the recommended design service amendment of \$125,000. With the amendment, the contract with BKF will have a not-to-exceed total contract amount of \$410,000, which includes \$104,132 for the amended design services and \$20,868 for additional services.

ALTERNATIVES

1. Do not approve the design service agreement amendment and delay the sewer main replacement.
2. Provide other direction.

PUBLIC NOTICING—Agenda posting.

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