



DATE: April 13, 2021

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22, and Miramonte Avenue Water Main Replacement, Project 21-21 – Authorize Design Services**

RECOMMENDATION

1. Authorize the City Manager to execute a professional services agreement with BKF Engineers of Redwood City to provide civil engineering services for Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22, in a not-to-exceed amount of \$740,000.
2. Authorize the City Manager to execute a professional services agreement with BKF Engineers of Redwood City to provide civil engineering services for Miramonte Avenue Water Main Replacement, Project 21-21, in a not-to-exceed amount of \$285,000.

BACKGROUND

Annual Water and Sewer Main Replacements, Projects 19-21 and 19-22, are infrastructure maintenance projects that replace substandard or end-of-service life water mains, sewer mains, and service laterals. The water and sewer mains are selected for replacements based on age of the pipe, maintenance records, and failure history. The projects include replacing approximately 3,960 linear feet of water mains and 4,490 linear feet of sewer mains at the following locations:

- Alison Avenue and Begen Avenue water main replacement (Figure 1);
- North Whisman Road between Walker Drive and Whisman Court new water main and San Francisco Public Utilities Commission (SFPUC) Turnout No. 14 pressure-reducing valve (Figure 2);
- Thaddeus Drive and Emmons Drive water main replacement (Figure 3);

- Whitney Drive, Whitney Court, and Parker Court water main replacement (Figure 4); and
- El Camino Real and Castro Street sewer main replacement (Figure 5).

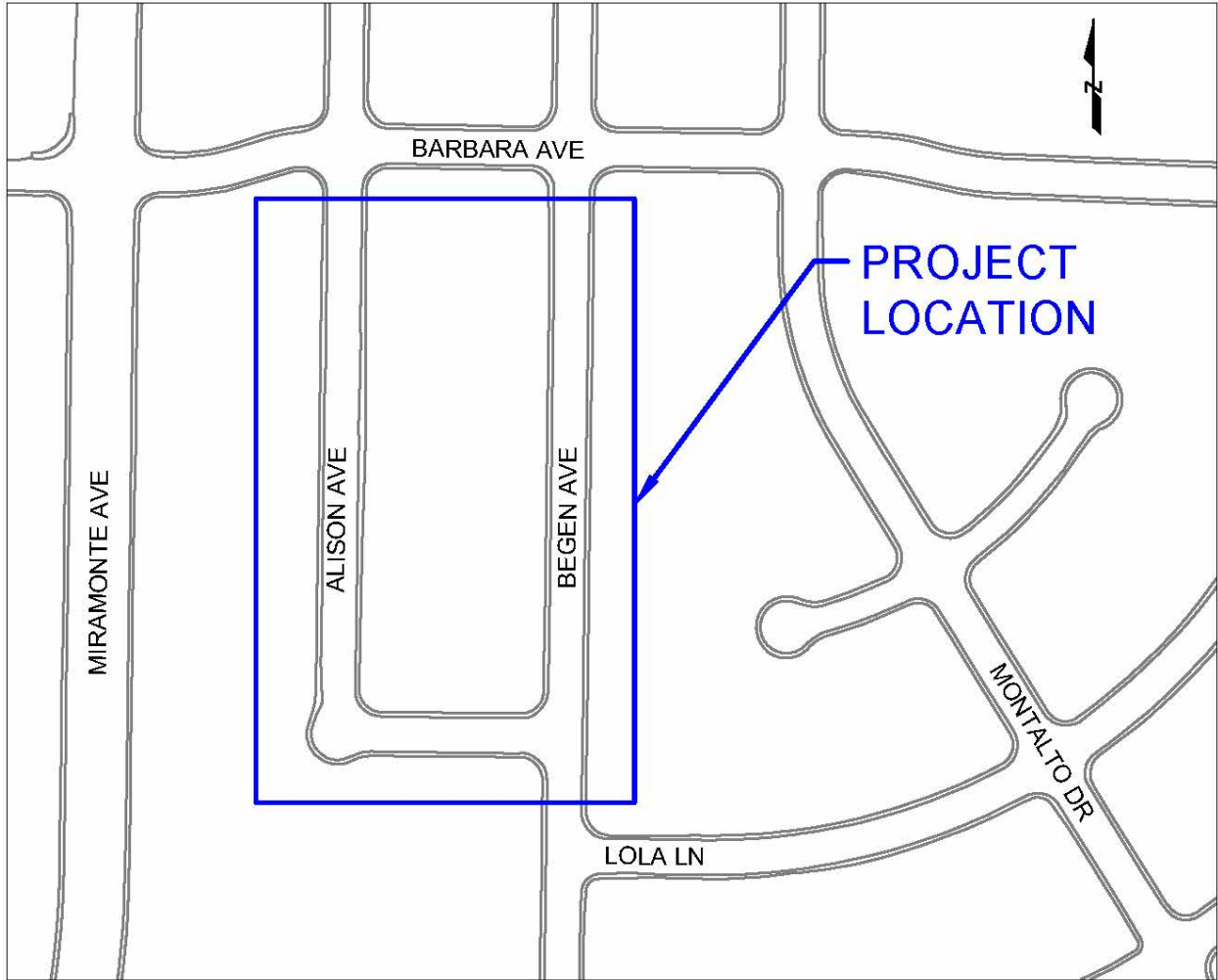


Figure 1: Alison Avenue and Begen Avenue Water Main Replacement Location

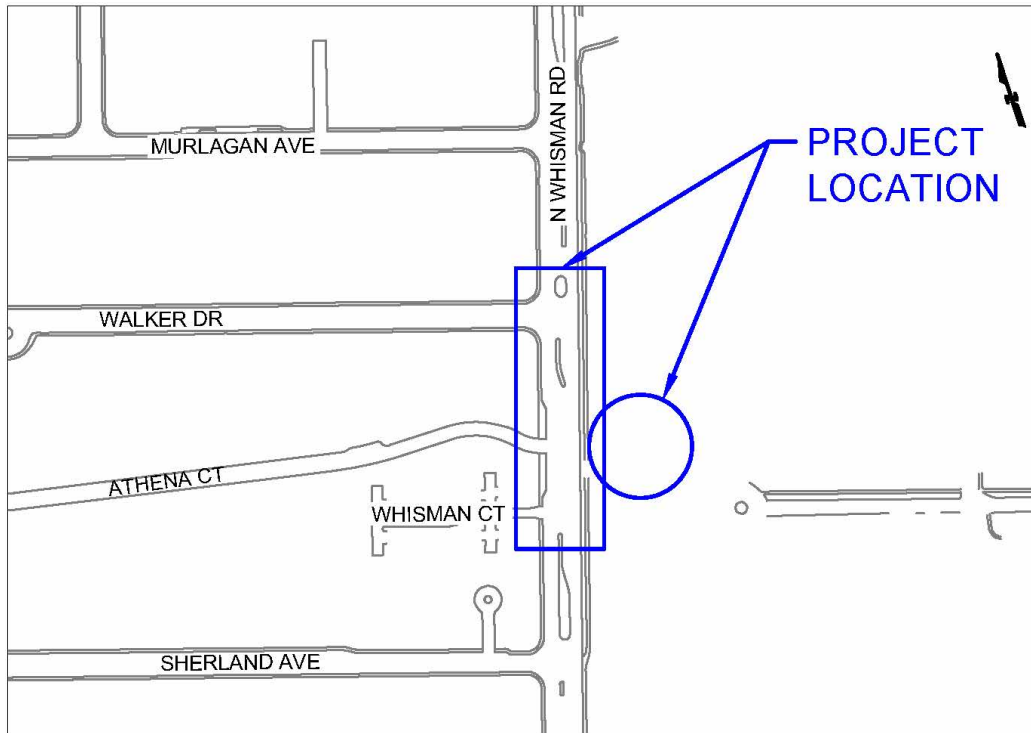


Figure 2: North Whisman Road and SFPUC Turnout No. 14 New Water Main and Pressure-Reducing Valve

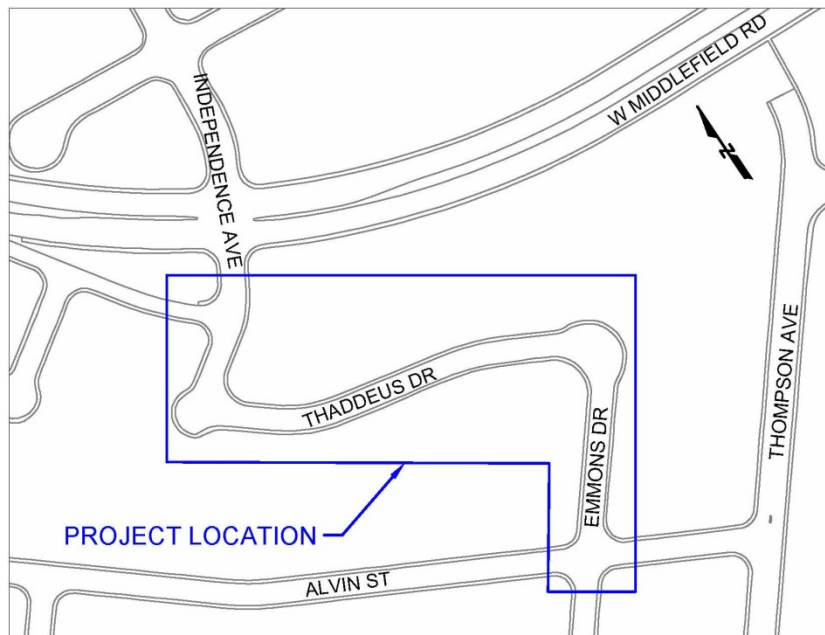


Figure 3: Thaddeus Drive and Emmons Drive Water Main Replacement

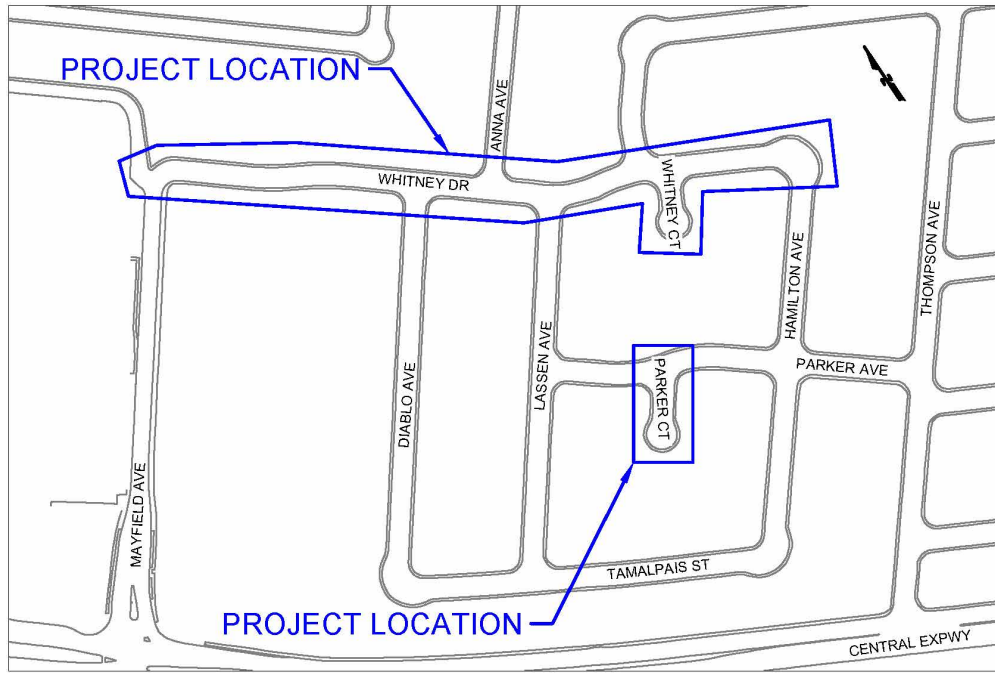


Figure 4: Whitney Drive, Whitney Court, and Parker Court Water Main Replacement

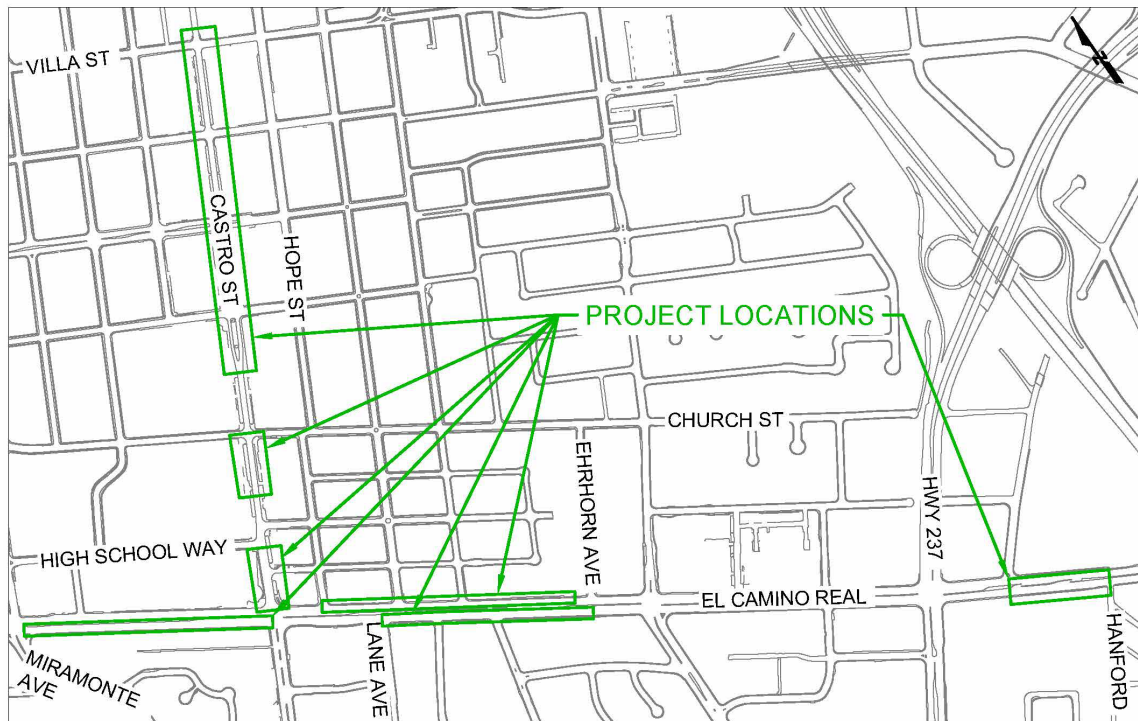


Figure 5: El Camino Real and Castro Street Sewer Main Replacements

El Camino Real and Castro Street Sewer Projects Timing

Staff will be placing a priority to complete the sewer repairs on El Camino Real prior to resurfacing by Caltrans of El Camino Real.

The sewer main replacement on Castro Street will be between High School Way and Villa Street, which includes the portion of Castro Street between Mercy Street and Villa Street, currently being used for outdoor dining under the Castro StrEATs Program. Construction, however, is not expected to begin until fall 2022, by which time it is anticipated that businesses on Castro Street will no longer need the street for outdoor dining and other business operations. The priority segments are from High School Way to California Street and, if needed, the sewer construction from California Street to Villa Street could be temporarily delayed if businesses are still being impacted by COVID-related restrictions in fall 2022.

Miramonte Avenue Water Main Replacement

Miramonte Avenue Water Main Replacement, Project 21-21, was added as additional scope to the Annual Water and Sewer Main Replacements Request for Proposals (RFP) to replace 3,260 linear feet of substandard water mains along Miramonte Avenue. This was added to complete the water utility work prior to the street resurfacing project for Miramonte Avenue, which is scheduled for summer 2022. The water main replacement project will remove parallel 4" and 8" water mains and replace them with a new 12" main (Figure 6). The project will also lower a large water valve box in preparation for the roadway resurfacing project.

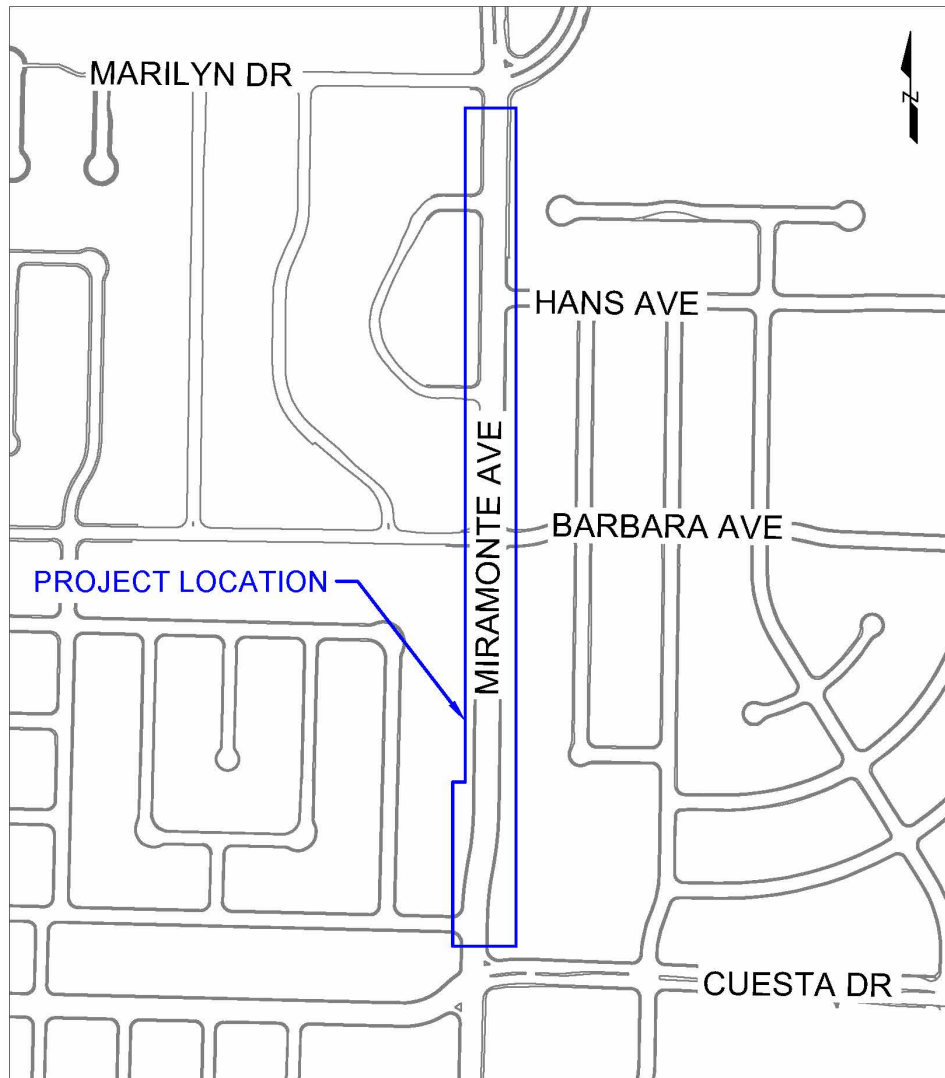


Figure 6: Miramonte Avenue Water Main Replacement

ANALYSIS

In January 2021, the City issued a Request for Proposal (RFP) for the Annual Water and Sewer Main Replacements Project. During this period, an addendum was issued to add the Miramonte Avenue Water Main Replacement Project as additional scope. Six consultants submitted proposals to the City for the Annual Water and Sewer Main Replacements, and five consultants submitted for the Miramonte Avenue Water Main Replacement. The proposals for each project were evaluated and ranked by a panel consisting of Public Works staff. Staff deemed BKF Engineers of Redwood City the most qualified for both projects based on their written proposals, experience in completing

similar projects, and understanding of project goals. BKF Engineers will be providing two different project teams for these two projects.

For the Annual Water and Sewer Main Replacements project, the not-to-exceed design contract amount of \$740,000 includes \$642,298 for basic services, including reimbursable expenses, and a contingency in the amount of \$97,702 for unforeseen items.

For the Miramonte Avenue Water Main Replacement project, the not-to-exceed design contract amount of \$285,000 includes \$246,549 for basic services, including reimbursable expenses, and a contingency in the amount of \$38,451 for unforeseen items.

The recommended fees are within the ranges typically charged for such services, and staff considers the contract costs to be fair and reasonable for the scope of work required. If the recommendations are approved, BKF Engineers can begin design in June 2021 with an estimated completion in the second quarter of 2022 for the Annual Water and Sewer Main Replacements and the fourth quarter of 2021 for the Miramonte Avenue Water Main Replacement.

FISCAL IMPACT

Miscellaneous Water Main Replacements, Project 19-21, is funded with \$2,584,000 from the Water Fund, including water capacity fees, and Miscellaneous Sewer Main Replacements, Project 19-22, is funded with \$1,617,000 from the Wastewater Fund. If the recommendation is approved, the design of the Annual Water and Sewer Main Replacements project will be funded with \$370,000 from Project 19-21 and \$370,000 from Project 19-22. There are sufficient funds in the project budgets to fund the recommended agreement.

Miscellaneous Water Main Replacement, Project 21-21, is funded with \$2,688,000 from the Water Fund, including water capacity fees. If the recommendation is approved, the design of the Miramonte Avenue Water Main Replacement project will be funded with \$285,000 from Project 21-21. There are sufficient funds in the project budget to fund the recommended agreement.

ALTERNATIVES

1. Do not authorize the professional services agreement with BKF Engineers for the Annual Water and Sewer Main Replacements Project.

2. Do not authorize the professional services agreement with BKF Engineers for the Miramonte Avenue Water Main Replacement Project.
3. Provide other direction.

PUBLIC NOTICING – Agenda posting.

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