



**DATE:** October 29, 2019

**CATEGORY:** Consent

**DEPT.:** Public Works

**TITLE:** **Water Main Crossing U.S. 101 from San Rafael Avenue to Macon Avenue, Project 16-61 – Approve Plans and Specifications/Authorize Bidding**

### **RECOMMENDATION**

1. Approve plans and specifications for Water Main Crossing Highway 101 from San Rafael Avenue to Macon Avenue, Project 16-61, and authorize staff to advertise the project for bids.
2. Authorize the City Manager to award a construction contract to the lowest responsible bidder if the low bid is within the project budget.

### **BACKGROUND**

An Alignment and Constructability Study was completed in March 2016 for the replacement of three critical and aging utility crossings at Highway 101 and State Route 85. The three studied crossings are: Shoreline Boulevard at Highway 101; State Route 85, between Stevens Creek and San Leandro Avenue; and Rengstorff Avenue at Highway 101. The water and sewer mains at the crossings are all nearing the end of their useful lives and located under freeways with accessibility and reliability problems.

In April 2018, the City executed a design services contract with AECOM Technical Services, Inc. (AECOM) to perform design work for the Shoreline Boulevard water and sewer main crossings and a new water main crossing U.S. 101 from San Rafael Avenue to Macon Avenue through the Microsoft campus. In its current alignment, manholes on the Shoreline Boulevard sewer are inaccessible to maintenance vehicles, making cleaning and other activities extremely difficult. The proposed alignment is through easements on the Valley Transportation Authority (VTA) bus yard on La Avenida and the Sares-Regis Group development on 1001 North Shoreline Boulevard (see Figure 1). The new alignment on the VTA bus yard is adjacent to the proposed Shoreline Boulevard/Highway 101 off-ramp realignment.



**Figure 1 – VTA Bus Yard on La Avenida and the Sares-Regis Group Development on 1001 North Shoreline Boulevard**

Currently, the North Bayshore Area is served by three water mains crossing at Rengstorff Avenue, Permanente Creek (known as the Bayshore crossing), and Shoreline Boulevard. The proposed San Rafael Avenue to Macon Avenue crossing is new and will provide redundancy of service to the North Bayshore Area in case another water main is out of service due to maintenance, construction, or a natural disaster. The San Rafael Avenue to Macon Avenue crossing requires a permanent easement through the Microsoft campus at 1075 La Avenida and a temporary construction easement from 970 Terra Bella Avenue.

## **ANALYSIS**

While the permanent easement through the Microsoft campus and the temporary construction easement have been secured, staff is still working with the VTA and Sares-Regis Group on the alignment of the proposed pipelines and easement requirements for the Shoreline Boulevard crossing. To coordinate with the current construction on the Microsoft campus, staff recommends splitting the project and proceeding with the San

Rafael Avenue to Macon Avenue crossing. This will allow the water main work to be constructed prior to completion of Microsoft's buildings and site work.

Plans and specifications for the San Rafael Avenue to Macon Avenue crossing are complete. Staff is waiting for the issuance of a Caltrans permit. To expedite the project schedule, staff recommends the approval of plans and specifications in advance of securing the Caltrans permit. Staff will complete the bidding process only after receiving the permit.

Design and right-of-way acquisition for the Shoreline Boulevard crossing will continue, and the Shoreline Boulevard crossing will be coordinated with the construction of the Sares-Regis Group development and the Shoreline Boulevard/Highway 101 off-ramp realignment.

The estimated project cost for the San Rafael Avenue to Macon Avenue crossing is as follows:

Construction	\$1,848,000
Construction Contingency (15%)	278,000
Project Management	50,000
City Construction Management and Special Inspection	100,000
Printing and Other Miscellaneous	<u>5,000</u>
Subtotal	\$2,281,000
City Administration @ 6.5%	<u>149,000</u>
TOTAL PROJECT COST	<u>\$2,430,000</u>

### **ENVIRONMENTAL REVIEW**

In accordance with the California Environmental Quality Act (CEQA), this project has been determined to be statutorily exempt under Section 21080.21 as it involves the installation of a new water main, less than one mile in length located within the public right-of-way.

### **FISCAL IMPACT**

The construction of the Water Main Crossing U.S. 101 from San Rafael Avenue to Macon Avenue, Project 20-41, is funded with \$5,627,000 from the North Bayshore

Development Impact Fees—Water Fund, which also funds the construction of the Shoreline Boulevard water main crossing. There is sufficient budget to cover the estimated project cost for the San Rafael Avenue to Macon Avenue water main crossing.

Staff will return to the City Council for the approval of plans and specifications for the Shoreline Boulevard crossing, including anticipated fiscal impact.

### **ALTERNATIVES**

1. Defer construction until the design of the Shoreline Boulevard crossings is completed.
2. Provide other direction.

### **PUBLIC NOTICING** – Agenda posting.

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