



MEMORANDUM

Public Works Department

DATE: April 18, 2018

TO: Parks and Recreation Commission

FROM: Andy Chang, Senior Civil Engineer

SUBJECT: **Shoreline Boulevard Bus Lane and Utility Improvements, Project 16-58 – Heritage Tree Removal Mitigation**

RECOMMENDATION

Review the proposed Heritage tree mitigation for Shoreline Boulevard Bus Lane and Utility Improvements, Project 16-58, and forward a recommendation to the City Council to approve the staff-recommended mitigation for removal of 11 Heritage trees with 2-to-1 tree replacement ratio with 24" box trees.

BACKGROUND

In November 2014, the City Council approved the "Shoreline Boulevard Corridor Study," which provided for a phased program for transportation improvements to accommodate anticipated increases in employment and development in the North Bayshore Area. On September 6, 2016, the City Council approved the conceptual design for Shoreline Boulevard Bus Lane and Utility Improvements, Project 16-58. The project is the first step in transforming Shoreline Boulevard into a multi-modal corridor as envisioned in the Corridor Study and a strategy crucial to achieve the North Bayshore commute mode-share goals endorsed by the City Council.

The scope of the project includes a 12' wide dedicated center-running reversible bus lane on North Shoreline Boulevard between Middlefield Road and Pear Avenue. The new bus lane will replace the existing two-way left turn lane or landscaped median. The project will also construct a protected bike lane between Middlefield Road and Terra Bella Avenue. Both the bus lane and protected bike lane will have a 2' wide raised buffer separating them from the adjacent traffic lanes.

ANALYSIS

Heritage Trees

In order to construct the improvements, the landscape median on North Shoreline Boulevard between Terra Bella Avenue and Pear Avenue will be removed. Additionally, portions of North Shoreline Boulevard and Middlefield Road will also need to be widened. As a result, approximately 120 trees will be removed, 11 of which are Heritage trees. The project is designed such that several mature redwood trees within the project are preserved. The size and type of Heritage trees proposed for removal are summarized in Table 1.

No.	Tree ID	Tree Diameter at 54" Above Grade	Tree Type
1	118	21.6"	Deodar Cedar
2	119	44"	Coastal Redwood
3	120	20.2"	Monterey Pine
4	121	24.6"	Peruvian Pepper
5	132	24"	Blackwood Acacia
6	138	20.4"	Mexican Palm
7	139	25.2"	Eucalyptus
8	172	22.7"	Coastal Redwood
9	176	15.6"	Norway Maple
10	178	18"	Norway Maple
11	18385	11"	Coastal Redwood

Table 1 - Heritage Tree Removal Summary

Figure 1 shows the project limit. The red line indicates the center-running reversible bus lane. Locations of the Heritage trees planned for removal are indicated by the green circle.

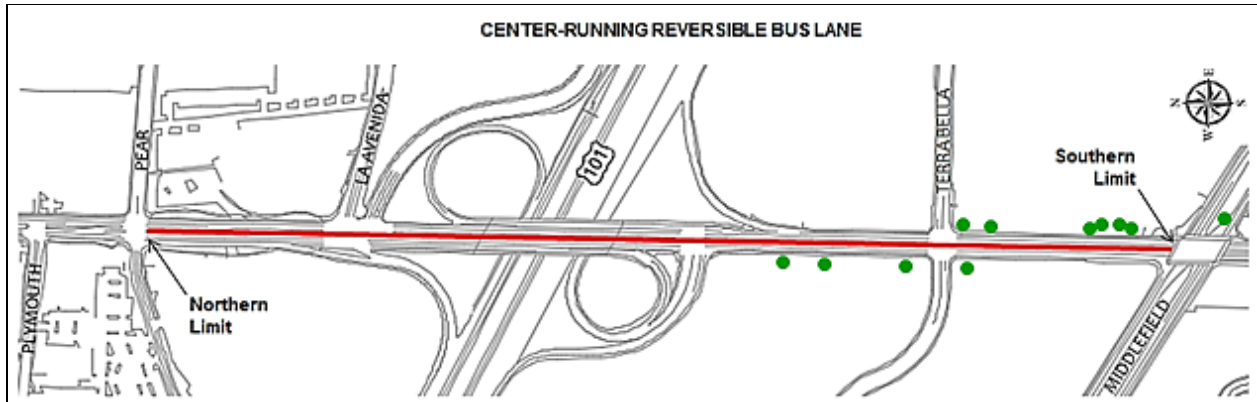


Figure 1 - Project Limit and Locations of Heritage Trees Planned for Removal

Mitigation

Staff recommends replanting at a 2-to-1 ratio with 24" box trees as mitigation for the removal of the 11 Heritage tree. The project proposes to plant a total of 31 new trees at the project site, which exceeds the 22 trees recommended. Species of new trees to be planted include red maple and crepe myrtle.

The Urban Forestry Board's recommendation for mitigation will be forwarded to the City Council with the approval of plans and specifications in fall 2018.

FISCAL IMPACT

The Shoreline Boulevard Bus Lane and Utility Improvements Design, Project 16-58, is funded with \$2,955,000. Construction is funded with Project 18-43 for \$12,164,000. Funding sources for both the design and construction of the project come from the Shoreline Community Fund, Water Fund, and Wastewater Fund.

The mitigation measure to plant new trees and install the necessary irrigation system is estimated to cost \$125,000, which will be funded by Construction Project 18-43.

PUBLIC NOTICING

In addition to agenda posting, staff posted notices on the Heritage trees proposed to be removed and provided information for attending this meeting. Information related to the tree removal was also posted on the City's Parks Division web page under "Heritage Trees."

AC/AF/2/CSD
224-04-18-18M-E-1

cc: CSD, PWD, APWD-Solomon, POSM, PCE-Au, SCE-Chang, File