

Memorandum

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: January 20-21, 2015

Reference No.: 2.5e.(3)
Action Item

From: NORMA ORTEGA
Chief Financial Officer

Prepared by: Bruce De Terra, Chief
Division of Transportation
Programming

Subject: **ALLOCATION FOR SUPPLEMENTAL FUNDS FOR PREVIOUSLY VOTED PROJECT
RESOLUTION FA-15-16**

RECOMMENDATION

The California Department of Transportation (Department) recommends that the California Transportation Commission (Commission) allocate an additional \$5,500,000 in State Highway Operation and Protection Program (SHOPP) funds for the Bouldin Island Project (PPNO 7352) on Route 12 in San Joaquin County.

ISSUE

Additional funds are needed for one previously approved project in order to complete construction.

RESOLUTION

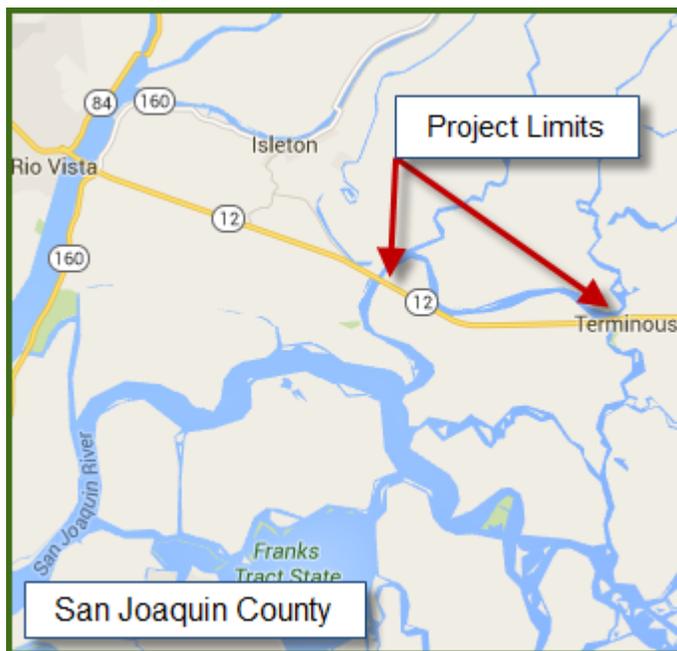
Resolved, that \$5,500,000 be allocated from the Budget Act of 2014, Budget Act Item 2660-302-0042 and 2660-302-0890, to provide funds to complete construction of the following project.

<u>Dist-Co-Rte</u>	<u>Original Allocated Amount</u>	<u>Current Allotment</u>	<u>Allocation Adjustment</u>	<u>Revised Allocation</u>	<u>% Increase Above Original Allocation</u>
10-SJ-12	\$32,589,000	\$35,892,800	\$5,500,000	\$41,392,800	16.9%

PROJECT DESCRIPTION

This project is located on Route 12, from the Mokelumne River Bridge to the Potato Slough Bridge in San Joaquin County. The project will re-align State Route 12 and install concrete median barrier from the Mokelumne River Bridge to the Potato Slough Bridge. The project will also replace 8.6 lane-miles of existing roadway with a new structural section.

PROJECT LOCATION



FUNDING STATUS

This project was programmed in the 2012 SHOPP for \$31,000,000 and was allocated by the Commission in March 2013, for \$32,589,000. The project was awarded in August 2013, for \$32,448,000. The current allotment is \$35,892,800, which includes G-12 increase in the amount of \$3,444,800.

Construction is 50 percent complete with approximately 63 percent of the budget expended. An additional \$5,500,000 is needed in order to complete construction of this project.

REASONS FOR COST INCREASE

The cost increase involves the repair of soil bearing failure and settlement encountered during construction. Cracks in the embankment were first noticed on October 15, 2014, near the Mokelumne River Bridge. The cracks grew larger over time and by March 3, 2015 excessive settlement had developed. This settlement quickly began to affect the embankment and eventually migrated towards the temporary railing along State Route 12. On March 12, 2015, work was suspended to allow for further geotechnical investigations and the development of a fix.

The initial geotechnical studies indicated saturated peat material along the proposed new alignment. The geotechnical recommendation for the construction strategy was to dewater the underlying material using wick drains along with 5 feet of earthen surcharge prior to construction of the structural section. This construction strategy was successful for the majority of the project. However, unanticipated extremely low bearing strength in the underlying soil was encountered in the western end of the project near the Mokelumne River Bridge. This differing site condition caused excessive settlement. The Department developed several proposed solutions for overcoming the low soil bearing strength and subsequent settlement at this location. However, the recommended alternative for keeping the project on schedule with minimal impact to existing traffic was the installation of light weight cellular concrete for this portion of the new alignment.

Additional funds in the amount of \$5,500,000 are needed in order implement the new strategy and prevent further settlement. The settlement also resulted in increased quantities associated with items such as maintain/repair existing highway, reset temporary barrier, install temporary drainage for winter, and additional permanent drainage inlets.

DETERMINATION

The Department has determined that this request of \$5,500,000 is needed in order to repair the embankment and prevent further settlement in this location.

Attachment

