

## MEMORANDUM

To: CHAIR AND COMMISSIONERS  
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: June 24-25, 2020

From: STEVEN KECK, Chief Financial Officer

Reference Number: 2.5e.(1), Action Item

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District 05 – Director

Subject: **SUPPLEMENTAL FUNDS FOR CAPITAL OUTLAY SUPPORT PHASE  
(PPNO 2522/EA 1F500 – SANTA BARBARA COUNTY – UNITED STATES  
HIGHWAY 101)  
RESOLUTION FA-19-36**

### **ISSUE:**

Should the California Transportation Commission (Commission) approve the California Department of Transportation's (Department) request for an additional \$180,000 in Capital Outlay Support (COS), for the for the State Highway Operation and Protection Program (SHOPP) Bridge Replacement project on United States Highway (US) 101, in Santa Barbara County, to complete the Plans, Specifications, and Estimates (PS&E) project phase?

### **RECOMMENDATION:**

The Department recommends that the Commission approve this request for a COS supplemental funds allocation for this SHOPP project.

### **PROJECT DESCRIPTION:**

This project is located on US 101 in the community of Los Alamos, in Santa Barbara County. The project will construct a new single span bridge by bridging the median gap between the former structures. The US 101 structure approaches, bridge rails, metal beam guardrail, and end treatments will be replaced and sidewalk with pedestrian railing as needed has also been added to the project along Route 135 to improve pedestrian connectivity. The project will accommodate planned traffic staging during construction and maintain two lanes open to traffic in each direction on US 101.

*“Provide a safe, sustainable, integrated and efficient transportation system  
to enhance California’s economy and livability”*

**FUNDING AND PROGRAMMING STATUS:**

This project was programmed for delivery in 2019-20, and the Department is requesting an allocation time extension concurrently with this COS supplemental funds request. The PS&E phase was allocated in August 2017 for \$1,800,000, and with the available G-12 authority, the total allotment for the PS&E phase is \$2,180,000.

A total of \$2,074,000 of the budget has been expended to achieve 90 percent of the plans for the PS&E phase. However, the Department is requesting supplemental funds in the amount of \$180,000 to be able to complete the phase and deliver this project by the planned delivery date, and advertise and award the project.

**REASON FOR COST INCREASE:**

The Original Project Scope Study Report (PSSR) was developed in June 2015. At the time the project was programmed, the structures work only included replacing the superstructures and retrofitting the bent columns. Since the original programming, it was discovered that the project site had liquefaction potential and the project will now replace the bridges completely instead of only replacing the superstructures.

The original project plans for the bridge deck replacement were based on the bridge health assessment and remaining bridge service life as outlined in the bridge maintenance report at the time of the PSSR completion. An advance bridge design planning study was later prepared in February 2014. At that time, a preliminary seismic report based on examination of as-builts and log of test borings, indicated that liquefaction may be significant. The Department noted the liquefaction risk and proceeded with the preliminary plans, while waiting for the necessary permits to drill and obtain soil samples, before finalizing the bridge rehabilitation plans.

In August 2017, the Commission allocated \$1,800,000 for the PS&E phase support cost based on the original scope, and the Department proceeded with the bridge deck replacement and bridge column strengthening plans.

Drilling permits were approved in November 2017, and the Department then collected soil sample from four drilled holes. In February 2018, an updated preliminary seismic report showed that liquefaction was found in three of the four test boring holes. The scope was then updated to replace the two bridges.

At the 90 percent completion of the PS&E phase, and with the previously registered risk of potential soil liquefaction having now materialized, the Department also noted the need to address a recently updated traffic analysis that showed increased traffic delays due to limiting traffic to one lane in each direction during construction. The Department concluded that to achieve the goals of this project, critical design changes must be incorporated. These changes include increasing the bridge deck area to allow two lanes of traffic in each direction during construction.

The supplemental funds are required to cover additional coordination between all functional units, preparation of project contract addendums, processing contract advertisement, responding to bidder inquiries, and processing of contract award documents. The Department is feels confident that this request corresponds to an appropriate level of additional funding to account for these risks as the project plans have now moved closer to completing the PS&E phase. The Department is still monitoring costs for the construction estimate, but it is possible that a request for funding over what is programmed for the Capital Construction phase may be required.

The requested COS supplemental funds of \$180,000 will be used to complete the final stages of PS&E and allow the Department to complete the development of the contract bid plans, estimates and specifications to award the project in 2020.

**CONSEQUENCES:**

Without the approval of these supplemental funds, the Department will not be able to complete the PS&E phase and advertise and award the project.

The Department has determined that the requested additional funds are in the best interest of the State.

The Department has exercised all feasible measures to minimize costs in carrying out work related to this project and has determined that this request is well-supported and is the only viable alternative.

**FINANCIAL RESOLUTION:**

Resolved, that \$180,000 be allocated from a Non-Budget Act Item, to provide funds for the pre-construction PS&E phase for this SHOPP project.

Attachment

2.5 Highway Financial Matters

| Project #       | Allocation Amount | Recipient  | County    | Dist-Co-Rte | Postmile | Location   | Project Description | PPNO<br>Program<br>Phase | Program Code  | Project ID | Adv Phase | EA                         | Original Amount | This<br>Supplemental<br>Request |
|-----------------|-------------------|--|-----------|-------------|----------|--|---------------------|--------------------------|---------------|------------|-----------|----------------------------|-----------------|---------------------------------|
| <b>2.5e.(1)</b> |                   |  |           |             |          | <b>COS Supplemental Funds for Previously Voted Project</b>   |                     |                          |               |            |           | <b>Resolution FA-19-36</b> |                 |                                 |
| 1               | \$180,000         | Department of<br>Transportation<br>Santa Barbara | 05-SB-101 | 70.771.2    |          | In Los Alamos, at Route 101/135 Separation No.<br>51 -0073L/R; also on Route 135 (PM 0.1).<br>Outcome/Output: Replace bridges. |                     | 05-2522<br>SHOPP<br>PS&E | 20.10.201.110 | 0514000003 | 1         | 1F500                      | \$1,800,000     | \$180,000                       |