State of California
DEPARTMENT OF TRANSPORTATION

California State Transportation Agency

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M e m o r a n d u m

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: March 26, 2015

Reference No.: 2.5e.(1)
Action Item

From: NORMA ORTEGA
Chief Financial Officer

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

Subject: **ALLOCATION FOR SUPPLEMENTAL FUNDS FOR PREVIOUSLY VOTED PROJECT RESOLUTION FA-14-16**

RECOMMENDATION:

The California Department of Transportation (Department) recommends that the California Transportation Commission allocate an additional $1,125,000 for one State Highway Operation and Protection Program (SHOPP) project identified below.

ISSUE:

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

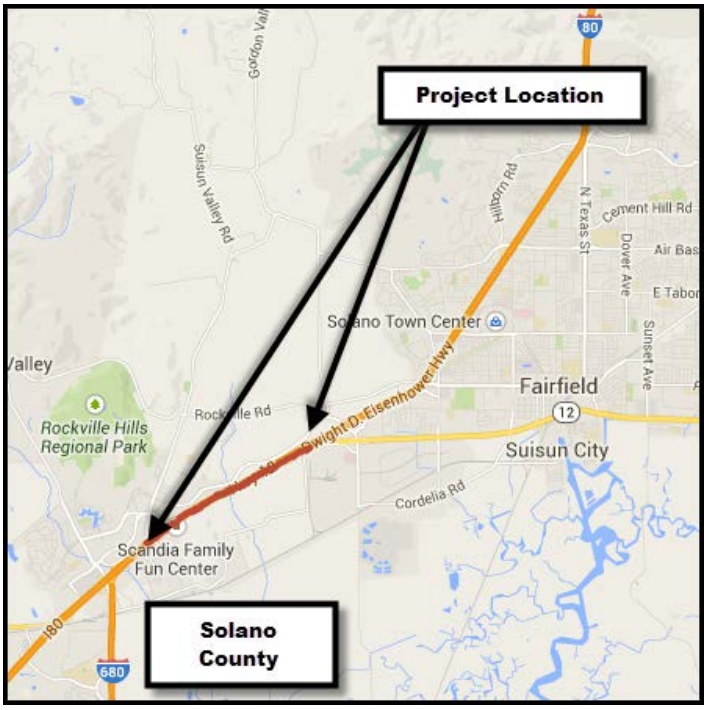
RESOLUTION:

Resolved, that $1,125,000 be allocated from the Budget Act of 2013, Budget Act Items 2660-302-0042 and 2660-302-0890 to provide additional funds to allow the following project to complete construction.

Project	Dist-Co-Rte	Original Allocated Amount	Current Allocation	Allocation Adjustment	Revised Allocation	% Increase Above Current Allocation
1	04-Sol-80	$42,300,000	$31,792,000	$1,125,000	$32,917,000	3.5%

Project # Allocation Amount Recipient County Dist-Co-Rte Postmile	Location Project Description Reason for Supplemental Funds	PPNO Program Funding Year Item # Fund Type Program Codes Project ID Adv Phase EA	State Federal Current Amount by Fund Type	State Federal Additional Amount by Fund Type	State Federal Revised Amount by Fund Type
2.5e.(1) Supplemental Funds for Previously Voted Projects					**Resolution FA-14-16**
1 $1,125,000 Department of Transportation Solano 04-Sol-80 13.3/15.7	Near Fairfield, at the EB Cordelia Truck Scale. Outcomes/Outputs: Relocate and expand truck scale facility and relocate and realign ramps to improve CHP truck inspection operation and improve freeway efficiency and safety for vehicular traffic. (SHOPP funded Trade Corridor Improvement Fund (TCIF) project 12) Supplemental Funds needed to complete the construction contract. (Total Revised Amount: $32,917,000) (Contributions from other sources: $17,383,000)	04-5301R SHOPP 2011-12 302-0890 FTF 20.20.201.321 SHOPP 2013-14 302-0042 SHA 302-0890 FTF 0400000153 4 0A5354	$31,792,000	$411,000 $714,000	$31,792,000 $411,000 $714,000

PROJECT LOCATION:



PROJECT DESCRIPTION:

This project is located on Route 80 near Fairfield, at the eastbound Cordelia Commercial Vehicle Enforcement Facility (CVEF). The project relocated and expanded the existing eastbound CVEF. The new facility lengthened and realigned ramps to allow for an increasing number of commercial vehicles entering the facility and to reduce backups on Route 80 and the interchange with Route 680. Also, the new braided highway on-ramps leaving the facility provided separate truck access to both eastbound Route 80 and eastbound Route 12, which improved weaving and safety for both truck traffic and mainline traffic. The expanded CVEF improved the reliability of truck weight and safety inspection enforcement by constructing a new and expanded truck inspection building, California Highway Patrol (CHP) administration building, weigh-in-motion scale system, traffic monitoring systems, lighting, signing and striping, parking facilities, retaining walls, drainage systems, bridge structures, and landscaping.

FUNDING STATUS:

This project was voted in June 2011 as a SHOPP funded Trade Corridor Improvement Funds (TCIF) project. The project was awarded in January 2012 with $31,792,000 in SHOPP/TCIF funds and $17,383,000 in local funds under cooperative agreement with the Solano Transportation Authority.

The construction contract work is complete, and the facility opened to truck inspections in August 2013. However, an additional $1,125,000 in supplemental funds is needed to complete construction; this is an overall increase of 3.5 percent over the current SHOPP allocation. In addition, the Solano Transportation Authority is contributing an additional $775,000 towards construction completion.

All Notices of Potential Claims have been resolved or gone through the Design Review Board (DRB) process, with one exception yet to be resolved. The standard process is that this remaining unresolved claim go through a Board of Review with potential for possible future litigation. However, if rulings are not in favor of the Department, additional supplemental funds may be required to close-out the contract.

REASONS FOR COST INCREASE:

The following are identified expenditures against the project budget and exceed the project funds available. These expenditures are reduced by $775,000 in local funds, and $2,385,000 from the remaining project budget contingency and supplemental work items.

The overrun expenditures breakdown as follows:

1.	Additional Settlement Embankment	$1,029,000
2.	Differing Site Conditions	$ 798,000
3.	CHP Design Modifications and Infrastructure	$ 705,000
4.	Waterproofing and Drainage	$ 608,000
5.	Storm Water Pollution Prevention Plan (SWPP) Changes	$ 396,000

6. Communications Line Tie-in	$ 342,000
7. Engineered Fill at Building Pad	$ 266,000
8. Modifications to Fire Protection Supply Line	$ 141,000
	$4,285,000
Less local funds:	- $ 775,000
Less remaining project budget	-$2,385,000
	$1,125,000

1. Additional Settlement Embankment: Project plans call for a temporary embankment at the location of the retaining walls to pre-load the soils for settlement. However, the temporary settlement embankment partially loaded the location of a planned bridge on-ramp separation structure as well. This would have resulted in uneven future settlement and stresses in the structure. The Department directed the contractor to increase the limits of the temporary settlement embankment to include the full footprint area of the planned bridge structure. This added $1,029,000 to the cost of the project.

2. Differing Site Conditions: The project encountered subsurface materials differing from those accounted for in the contract plans and specifications. Soils were encountered that required excavation and removal. In addition, several buried man-made objects such as existing utilities, an abandoned well, and buried rubble were encountered during excavation work. This added $798,000 to the cost of the project.

3. CHP Design Modifications and Infrastructure: Several small building changes were made at the request of the CHP during construction to better accommodate operational needs. In addition, meetings between the project team, stakeholders, and CHP staff identified the need to add a planned future Adaptable Radiation Area Monitoring (ARAM) system to the facility. The team concluded it would be best to add the new infrastructure during this contract, rather then add later at a higher cost. These changes added $705,000 to the cost of the project.

4. Waterproofing and Drainage: The project contract specifications and plans did not provide for waterproofing the below-grade inspection building pits, tunnel foundations and walls, and at the scale pit. These locations have a high potential for water infiltration. A contract change order was issued to add a waterproof membrane at these locations. In addition, insufficient underdrain details in the contract plans for a planned mechanically stabilized earth (MSE) retaining wall resulted in a contract change order to resolve. Furthermore, water from the roof drain down-spouts on the exterior wall of each inspection bay door was unable to drain away from the building openings because the slope of the pavement is not steep enough. A contract change order was issued to the contractor to install grated line-drains in the pavement at each entrance. These changes for waterproofing and drainage added $608,000 to the cost of the project.

5. Storm Water Pollution Prevention Plan (SWPP) Changes: The contract documents did not provide for Temporary Erosion Control. A contract change order was needed. This added $396,000 to the cost of the project.

6. **Communications Line Tie-in:** During coordination of communications tie-in work with the utility company, the Department was informed that the planned service point was inadequate to provide the necessary bandwidth services required for the new CVEF facility. New cables and conduits from the new CVEF site were installed across the access roadway to an existing utility pole at a nearby road. This added $342,000 to the cost of the project.

7. **Engineered Fill at Building Pad:** The foundation report required that the slab floors of the new building structures be constructed on an engineered fill with specific material properties and compaction requirements. However, these requirements failed to be incorporated into the contract specifications and plans. A contract change order was prepared to include these omissions resulting in an additional $266,000 cost to the project.

8. **Modifications to Fire Protection Supply Line:** The original contract plans called for the fire protection water supply line to pass under the building slab and foundations. A State Fire Marshall Fire Safety Correction Notice was issued to relocate the fire protection supply line around the perimeter of the building and site parking area. This added $141,000 to the cost of the project.

FUNDING OPTIONS:

OPTION A: Approve this request as presented above for $1,125,000 to allow this project to complete construction.

OPTION B: Deny this request and require the contractor to pursue payment from the Department through further legal action. The Department has considered this option and determined that the future costs to resolve these issues would most likely be greater than the current request and interest will continue to accumulate on the unpaid amount.

RECOMMENDED OPTION:

The Department recommends that this request of $1,125,000, as presented in Option A above, be approved to complete construction of the project.