

Memorandum

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: August 27, 2015

Reference No.: 2.5e.(2)
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-15-03**

RECOMMENDATION:

The California Department of Transportation (Department) recommends the California Transportation Commission (Commission) allocate an additional \$697,000 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 award the construction contract.

RESOLUTION:

Resolved, that \$697,000 be allocated from the Budget Act of 2014, Budget Act Item 2660-302-0042 and 2660-302-0890, to provide funds to award the following project.

	<u>Original Allocation</u>	<u>Allocation Adjustment</u>	<u>Revised Allocation</u>	<u>% Increase Above Original Allocation</u>
<u>Dist-Co-Rte</u> 06-Tul-190	\$2,026,000	\$697,000	\$2,723,000	34.4%

PROJECT DESCRIPTION:

This project is located near the city of Porterville at Road 284. At this location, Route 190 is a two-lane rural conventional highway on level terrain. The route provides access for agricultural goods movement. The purpose of the project is to improve safety of the intersection by constructing a roundabout that will reduce the number and severity of collisions.



FUNDING STATUS:

The project received an allocation at the May 2015 Commission meeting of \$2,026,000. This request for an additional \$697,000 is an increase of 34.4 percent above the allocated amount.

REASON FOR INCREASE:

The project bids were opened on June 24, 2015. Six bid packages were issued but only two bids were received. The lowest bid received is \$2,723,000.

The Department performed a bid analysis to evaluate the differences between the Engineer's Estimate and the contract bid items. The contract contains 113 bid items. Six primary items

account for the major difference between the low bid and the Engineer's Estimate. The top four primary items are discussed below.

The largest cost difference item is Traffic Control System. The low bid was \$157,250 or 285 percent above the Engineer's Estimate due to complex staging required to keep the intersection open during construction. There are no viable detours available and the intersection must be kept open to traffic during construction so local businesses including a rock quarry, casino and gas station/store are not impacted adversely.

The three other primary items collectively account for a difference of \$290,010 between the low bid and the Engineer's Estimate. These items are Roadway Excavation, Class 2 Aggregate Base and Minor Concrete (Misc. Construction); these items are higher due to the need to keep the intersection open, which presents a challenge with regard to construction access due to right of way restrictions and working around live traffic.

Other comments received from the two bidders and the four bid package recipients who did not bid are as follows:

- High workload due to a recent increase in construction activity in lower San Joaquin Valley.
- Higher unit prices resulting from an increased regional demand in construction materials.
- Increased complexity of curvilinear concrete planter due to roundabout adds to labor costs.
- Lack of previous experience in constructing roundabouts coupled with complex staging.

These factors collectively led to an overall cost increase of \$697,000.

LESSONS LEARNED:

Due to the challenges posed by complex staging required to keep the intersection open to traffic during construction, a more thorough constructability review beyond the standard practice, would have highlighted the construction risks that resulted in higher unit costs.

DETERMINATION:

The Department has determined that reducing the scope of work on this project and executing another project to complete the deleted work later, would result in greater costs and more disruption to the traveling public and therefore recommends that this request for \$697,000 be approved to award the project to the low bidder.

Attachment

2.5 Highway Financial Matters

Project #	Allocation Amount	Recipient	County	Dist-Co-Rte	Postmile	Project Title	Location	Project Description	Project Support Expenditures	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.(2) Supplemental Funds for Previously Voted Projects										Resolution FA-15-03			
1	\$697,000					Near Porterville, at Road 284. <u>Outcome/Output:</u> Construct a single lane roundabout to reduce the number and severity of collisions.				06-6428 SHOPP/2013-14 302-0042	\$41,000		\$41,000
Department of Transportation Tulare 06-TUL-190 20.9/21.2						Supplemental funds are needed to Award.				SHA 302-0890 FTF 20.20.201.010	\$1,985,000		\$1,985,000
						Total revised amount \$2,723,000				20.20.201.010			
						(Additional contribution: \$400,000 from Tulare County.)				SHOPP/2014-15 302-0042		\$14,000	\$14,000
										SHA 302-0890 FTF 20.20.201.010 0600000188 4 0J530		\$683,000	\$683,000