

## PROJECT CHANGE REQUEST

PROJECT ID. 03-0F310

DISTRICT/EA 0300000078 PPNO 3122 PGM Doc. 2014 SHOPP PGM Del FY 15/16 PROG CODE 201.113

Cty      Rte      PM      Description

PROJECT (SCOPE) DESCRIPTION: El Dorado 049 24.00/24.00 Near Placerville, at South Fork American River Bridge No. 25-0021. Cross bracing seismic retrofit.

DOES THIS PROJECT INVOLVE PROPOSITION 1B FUND(S)? NO  YES , TYPE(S) (CMIA, Route 99, STIP, SHOPP, etc.) \_\_\_\_\_

### SCOPE, COST & SCHEDULE CHANGES

TYPE OF REQUEST:     PGM COST     PGM YEAR     SCOPE     SPLIT / COMBINE     OTHER: \_\_\_\_\_

COMPONENT Change (\$'s in 1,000's)

	EXISTING (PROGRAMMED)		PROPOSED		COST EXPENDED to Date % COMPLETE			COST CHANGE			
	Value	FY	Value	FY	Expended	% Expended	% Complete	Value	Value%	Yrs	Type
PA&ED	\$710	15/16	\$1,700	15/16	\$1,610	218%	99%	\$990	139%	0	C
PS&E	\$1,731	15/16	\$2,500	15/16	\$0	0%	0%	\$769	44%	0	A
R/W SUP	\$230	15/16	\$400	15/16	\$0	0%	0%	\$170	74%	0	A
CON SUP	\$2,076	15/16	\$2,800	15/16	\$0	0%	0%	\$724	35%	0	A
R/W CAP	\$499	15/16	\$499	15/16	\$0	0%	0%	\$ 0	0%	0	N/A
CON CAP	\$14,408	15/16	\$14,408	15/16	\$0	0%	0%	\$ 0	0%	0	N/A

**Total**      \$19,654      \$22,307      \$1,610      \$2,653      13%

WHAT PHASE IS THE PROJECT IN?    PRE-PGM DELIVERY YR     PGM DELIVERY YR & PRE VOTE     POST VOTE

Cost Change Type	Description	Data Systems Changed	
	<b>Cost Change Request Types</b>	<b>Programmed Budget</b>	<b>Approved Cost</b>
A	Programming Cost Change	CTIPS	AMS Advantage
B	Headquarters Cost Approval		AMS Advantage
C	District Cost Documentation		
NA	No Change Proposed		
	<b>Supplemental Funds Requests</b>		
SFR	Supplemental Funds Request		AMS Advantage If Expenditures < 100%

Cty - Rte - PM - Description

**New Project Description:** ELD 49 24 ABOUT 8.5 MILES NORTH OF PLACERVILLE AT SOUTH FORK AMERICAN RIVER BRIDGE 25-21.

REPLACE BRIDGE

“010” Safety Project?    Yes     No

(Only If Revised)

Project Performance

EXISTING (PROGRAMMED)	PROPOSED	PERFORMANCE CHANGE
1 Bridge Value Units	1 Bridge Value Units	0% Bridge Units

(SHOPP PRIMARY PERFORMANCE OUTPUT BY PROGRAM CODE)

**1.) WHAT IS THE PROPOSED CHANGE?**

Increase PA&ED, PS&E, R/W and Construction support budget, and change project description.

**2.) COMPLETE THE FOLLOWING REGARDING THE LATEST TWO COST ESTIMATES.**

(\$'s in 1,000's.)

- |  |                               |                           |
|--|-------------------------------|---------------------------|
| 1. ESTIMATE DATE: <u>10/14 (MM/YY)</u> , | Con Capital <u>\$14,064</u> , | RW Capital <u>\$464</u> . |
| 2. ESTIMATE DATE: <u>10/11 (MM/YY)</u> , | Con Capital <u>\$12,120</u> , | RW Capital <u>\$436</u> . |

**3.) WHAT WAS THE REASON FOR THE CHANGE?**

The scope of this project is to seismically retrofit or replace the existing S.F. American River bridge on Highway 49 in El Dorado County as documented in Supplemental PSSR programming document dated November 2011. The SPSSR includes an in-place "bridge replacement" alternative in addition to a "widen/retrofit" alternative. The project was programmed with the highest estimate for the "widen/retrofit" alternative. During the project development process a variation of the "bridge replacement" alternative on an offset alignment was also studied to address constructability issues and public and pedestrian traffic concerns. Public input received during the DED public review period ending November 21, 2014 strongly support replacing the S.F. American River Bridge on a revised alignment instead of retrofitting and widening the existing bridge or replacing it in place. The proposed bridge replacement addresses the seismic vulnerabilities posed by the existing structure. On January 28, 2015 HQ Program Manager requested the investigation of a one-sided widening alternative. The investigation concluded that the existing bridge is scour critical based on geotechnical findings and hydraulic studies performed to date.

The preferred alternative realigns Highway 49 twenty-two feet to the north of the existing alignment.

This alternative requires additional budget for PS&E, R/W and Construction. Permits for geotechnical drilling have been obtained during PA&ED phase, but remaining geotechnical work associated with proposed retaining walls will be completed in the PS&E phase. Additional R/W Engineer work is required to produce appraisal maps (R/W support) and staking of the new realignment and establishing property corners after construction (Construction support). Coordination of context sensitive solutions, utility relocations, potential problematic erosion control issues, and analysis of retaining wall locations contribute to the additional support budget required on project.

Comments received during environmental document public review and bridge realignment will require effort in addressing context sensitive solutions, utility relocations and property rights acquisition. One-side widening alternative investigation resulted in an increase of PA&ED support budget that was approved in previous PCR.

**4.) WHEN WAS THE CHANGE DISCOVERED?**

The change became evident after the DED public review period ended. Public support for replacing the existing bridge with an offset alignment was overwhelming. The final project report and environmental document will document the preferred alternative and provide justification for its selection. The additional one-sided widening alternative was requested by HQ Program Manager on January 28, 2015.

**5.) WHAT HAS BEEN DONE TO MINIMIZE ANY CHANGE?**

This PCR was prepared only after the PDT received full public input on the project scope. Less expensive alternatives were thoroughly vetted before selecting the replace bridge option. An additional one-side widening was studied as requested by HQ Program Manager.

**6.) WHAT CAN BE CONSTRUCTED WITH THE PROGRAMMED FUNDS?**

Replace existing structure with new bridge on new alignment.

**7.) IF THE SCOPE IS REDUCED OR SPLIT, WOULD THE REMOVED WORK NEED TO BE REPROGRAMMED OR ADDED TO ANOTHER PROJECT?**

N/A

**8.) IS A SUPPLEMENTAL SCOPING DOCUMENT NEEDED? IF YES, STATUS?**

No. The final project report discusses the viable alternatives, which includes a variation of the replacement alternative on a revised alignment.

**9.) WAS A VALUE ANALYSIS STUDY CONDUCTED? EXPLAIN THE RESULTS OF THE STUDY OR WHY A STUDY WAS NOT CONDUCTED?**

No. Project capital estimate is \$14 million.

**10.) COST - WHERE WILL THE REQUIRED FUNDS COME FROM?**

SHOPP

**11.) PRIOR PCRs – LIST OTHER PCRs PREVIOUSLY APPROVED.**

Approve PCR June 2014 to increase R/W Support by \$22k to \$230k and for District documentation of PA&ED overrun. Proposed PA&ED costs have increased beyond \$1.5 million since that PCR was approved due to the additional work performed for one-side widening.

**PROJECT CONCURRENCE**

**12.) (A) (STIP-RIP) WHEN DID THE DISTRICT DISCUSS THIS WITH HEADQUARTERS STIP PROGRAM MANAGER AND THE RTPA OR COUNTY TRANSPORTATION COMMISSIONS STAFF? EXPLAIN THEIR REACTION.**

N/A

**(B) (STIP-IIP) WHEN DID THE DISTRICT DISCUSS THIS WITH HEADQUARTERS STIP PROGRAM MANAGER? EXPLAIN THEIR REACTION.**

N/A

**(C) (SHOPP) WHEN DID THE DISTRICT DISCUSS THIS WITH THE HEADQUARTERS PROGRAM MANAGER? EXPLAIN THEIR REACTION.**

This PCR was discussed with Kevin Wall on December 22, 2014. Kevin was supportive of the bridge replacement alternative and increase in support costs to deliver it for the capital construction budget programmed. Although, he was not supportive of slipping the project from FY 15/16 to FY 16/17 and suggested this topic get discussed with the statewide SHOPP manager. District met with HQ Program Manager and Advisor on January 28, 2015 and it was determined that a one-sided widening alternative be studied. Results of the study were discussed during a teleconference on February 6, 2015 between Tom Brannon, Jess Avila and Kevin Wall; the SF American River Bridge will be designated as scour critical based on geotechnical findings and hydraulic studies performed to date. The bridge requires replacement to ensure public safety due to scour potential and seismic vulnerability of the existing structure. Kevin Wall will work with Structure Hydraulics and Structure Maintenance to have the bridge location designated as scour critical in the STRAIN and brief Michael B Johnson about the finding and decision to replace the bridge.

**13.) LESSONS LEARNED, NEW STRATEGIES (What new information pertaining to this project could be beneficial to others?)**

Assure that environmental permits to entered are requested timely and that Right-of-Way follows through expeditiously so as to not delay environmental studies. Coordinate project description between all applicable programming documents and PRSM.

14.) District Project Manager Signature

Jess S. Avila  
**JESS S. AVILA**  
 District Project Manager

3/2/15  
 Date

(530) 741-4533  
 Phone Number

Thomas L. Brannon  
**THOMAS L. BRANNON**  
 Deputy District Director  
 Program/Project Management

3/2/15  
 Date

*pmol*

APPROVAL - COMMENTS - CONCERNS

PD Concurrence

PD Objections (detail concerns):

15.) Comments - Concerns: Programming and scope concerns have been addressed in PCR write-up.

Jim DeLuca  
**JIM DELUCA**  
 HQ Project Delivery Coordinator

3/2/15  
 Date

APPROVAL

for Joseph C. Caputo  
**AMARJEET S. BENIPAL**  
 DISTRICT DIRECTOR

2/26/15  
 Date

	Approve	Deny	No HQ Action
Cost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scope	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Split / Combine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Revise & Resubmit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

James E. Davis  
**JAMES E. DAVIS**  
 HQ DIVISION CHIEF  
 PROJECT MANAGEMENT

3/17/15  
 Date

Rachel Falsetti  
**RACHEL FALSETTI**  
 HQ DIVISION CHIEF  
 TRANSPORTATION PROGRAMMING

3/18/15  
 Date

REQUIRED ATTACHMENTS

- (a) Attach 1 page copy (screenprint) of project workplan/status schedule.
- (b) Attach the current CTIPS project information.
- (c) PCR Data Worksheet, if applicable (for splits/combinations).
- (d) For STIP Projects, please attach the latest Project Programming Request (PPR).
- (e) Summary Cost Estimates, if/when needed.

PROJECT ID: 0300000078  
 DISTRICT/EA: 03-0F310

