

MEMORANDUM

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: June 24-25, 2020

From: STEVEN KECK, Chief Financial Officer

Reference Number: 2.1b.(1), Information Item

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Division of Transportation Programming

Subject: **STIP AMENDMENT 20S-25 (NOTICE)**
PPNO 5301X - SOLANO COUNTY
PPNO 0658L - SOLANO COUNTY

SUMMARY:

The California Department of Transportation (Department) will request that the California Transportation Commission (Commission) approve the requested State Transportation Improvement Program (STIP) amendment at the next scheduled Commission meeting following the notice period.

The Solano Transportation Authority (STA) and the Department propose to reprogram \$16,700,000 in Regional Improvement Program (RIP) funds from the Solano Interstate (I-80) Managed Lanes project (PPNO 0658L) to the Solano I-80/I-680/Route 12 Interchange – Package 2A project (PPNO 5301X) in Solano County.

BACKGROUND:

The I-80/I-680/Route 12 Interchange - Package 2A project (PPNO 5301X) will replace the existing single-lane eastbound Route 12 to eastbound I-80 connector structure with a new two-lane structure that meets the operational requirements for the ultimate configuration of this interchange. The project will also construct direct ramps to Green Valley Road which will improve safety by eliminating the existing weaving conflicts. The construction funding plan for this project consists of Senate Bill (SB) 1 - Trade Corridor Enhancement Program (TCEP) and Regional Measure (RM) 2 funds, and construction is currently programmed in Fiscal Year 2019-20. The project is being delivered using the Construction Manager/General Contractor (CMGC) method of delivery.

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Increase in construction costs

Based upon the latest cost estimate, the construction capital cost has been revised from \$50,300,000 to \$67,000,000; which is an increase of \$16,700,000. This increase is due to the following reasons:

- 1) Geotechnical (Earthwork and structural section): \$8 Million
After the constructability review was conducted, an extensive redesign was needed that resulted in significant changes in quantities and upward revisions to unit prices. These design changes have increased the cost of the structural section by \$6,000,000. An additional \$2,000,000 increase has resulted from more extensive soil stabilization requiring longer piles and wick drains to consolidate the unforeseen expansive and unstable soils at the abutment locations.
- 2) Drainage: \$4.2 Million
Based upon the final design, new drainage system components are needed to better drain the flat gradients surrounding the new roadway and to avoid conflicts with the existing drainage systems. This includes two drainage crossings under the I-80 that require an open trench on the west end and micro-tunneling at the east end.
- 3) Traffic staging: \$1.0 Million
The original design details did not fully anticipate detour complexity and resulting traffic staging challenges which require more extensive construction signing/stripping and traffic handling measures. The revised estimate for temporary and permanent striping and staging requirements has resulted in a cost increase of \$1.0 million.
- 4) Specialty items: \$3.5 Million
To address the revised trash capture requirements from the Regional Water Quality Control Board, a large bioswale will be constructed adjacent to the Green Valley Road off-ramp. Additional erosion control measures are also needed to stabilize the embankments and cut sections. Finally, the cost of median barrier has gone up as a result of revised quantities and increase in unit prices.

The STA has been working with the Metropolitan Transportation Commission to secure Regional Measure (RM) 3 funds to cover the cost increase. However, because of still-unresolved litigation of RM3 funds, those funds are not available at this time.

Therefore, the STA is proposing to cover this funding shortfall by re-programming \$16,700,000 RIP funds from the Solano I-80 Managed Lanes project (PPNO 0658L). The Solano I-80 Managed Lanes project is currently programmed in the 2020 STIP with \$710,000 RIP for Right of Way and \$33,290,000 RIP for Construction; all funds programmed in 2021-22. The construction phase of this project is not fully funded at this time. The STA and the Department are planning to seek SB 1 funds during the upcoming cycle of SB 1 funding. The STA is committed to fully fund this project using RM3 funds once the litigation has been resolved.

Schedule delays

Because of delays in securing additional funding to cover the construction cost increase, the project delivery has been delayed from 2019-20 to 2020-21. As per the 2020 Interim Timely Use of Funds Policy, under Resolution G-20-56 adopted by the Commission at its May 2020 meeting, the deadline to request construction allocation is now December 2020. Concurrent with the anticipated approval of this STIP amendment, the project is scheduled to seek a construction allocation, including advance allocation of RIP funds, at the August 2020 CTC meeting.

Update to the project limits

Based upon the final design, minor revisions are being made to the project location description and to the post-miles. There is no change in project benefits, as committed to in the approved baseline agreement.

The Metropolitan Transportation Commission concurs with the changes described above and tabulated on the following pages.

REVISE: Solano I-80/I-680/Route 12 Interchange – Package 2A project (PPNO 5301X)

County	District	PPNO	EA	Element	Const. Year	PM Back	PM Ahead	Route/Corridor					
Solano County	04	5301X	0A539	CO	2019-20	11.3 11.4	12.9 12.8	80					
Implementing Agency:		PA&ED	Solano Transportation Authority			PS&E		Caltrans					
(by component)		R/W	Solano Transportation Authority			CON		Caltrans					
RTPA/CTC:		Metropolitan Transportation Commission											
Project Title:		I-80/I-680/Route 12 Interchange Package 2A											
Location:		In and near Fairfield on Route 12 from 0.4 mile west of Red Top Road to Route 80 and on Route 80 from Route 80/12 Separation to Green Valley Road											
Description:		Replace the existing connector from Eastbound SR12 to Eastbound I-80.											
(DOLLARS IN THOUSANDS)													
FUND	TOTAL	Project Totals by Fiscal Year						Project Totals by Component					
		Prior	18/19	19/20	20/21	21/22	22/23+	R/W	CON	PA&ED	PS&E	R/W Supp	CON Supp
Regional Improvement Program (RIP) funds													
Existing	9,000	0	0	9,000	0	0	0	0	0	0	9,000	0	0
Change	16,700	0	0	0	0	16,700	0	0	16,700	0	0	0	0
Proposed	25,700	0	0	9,000	0	16,700	0	0	16,700	0	9,000	0	0
SBI - Trade Corridor Enhancement Program (TCEP) funds													
Existing	53,200	0	0	53,200	0	0	0	0	43,200	0	0	0	10,000
Change	0	0	0	0	0	0	0	0	0	0	0	0	0
Proposed	53,200	0	0	53,200	0	0	0	0	43,200	0	0	0	10,000
Local Funds - Regional Measure 2													
Existing	13,800	0	13,800	0	0	0	0	3,400	7,100	0	2,700	600	0
Change	1,000	0	1,000	0	0	0	0	1,000	0	0	0	0	0
Proposed	14,800	0	14,800	0	0	0	0	4,400	7,100	0	2,700	600	0
Total													
Existing	76,000	0	13,800	62,200	0	0	0	3,400	50,300	0	11,700	600	10,000
Change	17,700	0	1,000	0	0	16,700	0	1,000	16,700	0	0	0	0
Proposed	93,700	0	14,800	62,200	0	16,700	0	4,400	67,000	0	11,700	600	10,000

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REVISE: Solano I-80 Managed Lanes (PPNO 0658L)

County	District	PPNO	EA	Element	Const. Year	PM Back	PM Ahead	Route/Corridor					
Solano County	04	0658L	4G080	LA	2021-22	10.4	30.2	80					
Implementing Agency: (by component)	PA&ED	Solano Transportation Authority				PS&E	Solano Transportation Authority						
	R/W	Solano Transportation Authority				CON	Caltrans						
RTPA/CTC:	Metropolitan Transportation Authority												
Project Title:	Solano 80 Managed Lanes												
Location:	In Solano County, from Red Top Road (Fairfield) to I-505 (Vacaville)												
Description:	Convert existing HOV Lanes to Managed Lanes and widen I-80, from I-505 to Air Base Parkway, to construct one managed lane in each direction												
(DOLLARS IN THOUSANDS)													
FUND	TOTAL	Project Totals by Fiscal Year						Project Totals by Component					
		Prior	18/19	19/20	20/21	21/22	22/23+	R/W	CON	PA&ED	PS&E	R/W Supp	CON Supp
Regional Improvement Program (RIP) funds													
Existing	34,000	0	0	0	0	34,000	0	650	33,290	0	0	60	0
Change	(16,700)	0	0	0	0	(16,700)	0	(650)	(15,990)	0	0	(60)	0
Proposed	17,300	0	0	0	0	17,300	0	0	17,300	0	0	0	0
Local Funds - Regional Measure 2													
Existing	25,500	0	0	25,500	0	0	0	0	0	10,900	14,600	0	0
Change	7,000	0	0	3,800	3,200	0	0	2,885	0	0	3,800	315	0
Proposed	32,500	0	0	29,300	3,200	0	0	2,885	0	10,900	18,400	315	0
Future Need													
Existing	120,500	0	0	0	0	120,500	0	0	120,500	0	0	0	0
Change	104,600	0	0	0	5,100	99,500	0	0	77,700	0	5,100	0	21,800
Proposed	225,100	0	0	0	5,100	220,000	0	0	198,200	0	5,100	0	21,800
Total													
Existing	180,000	0	0	25,500	0	154,500	0	650	153,790	10,900	14,600	60	0
Change	94,900	0	0	3,800	8,300	82,800	0	2,235	61,710	0	8,900	255	21,800
Proposed	274,900	0	0	29,300	8,300	237,300	0	2,885	215,500	10,900	23,500	315	21,800

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