Memorandum

TAB 66

To: CHAIR AND COMMISSIONERS CALIFORNIA TRANSPORTATION COMMISSION CTC Meeting: June 29-30, 2016

Reference No.: 2.1a.(2a) – REPLACEMENT ITEM

Action Item

From: NORMA ORTEGA Prepared by: Bruce De Terra, Chief

Chief Financial Officer Division of

Transportation Programming

Subject: SHOPP AMENDMENT 16H-002

RECOMMENDATION:

The California Department of Transportation (Department) recommends the California Transportation Commission (Commission) approve the requested State Highway Operation and Protection Program (SHOPP) Amendment 16H-002; in accordance with Senate Bill 486 which requires the Commission to approve any changes or new projects amended into the SHOPP.

ISSUE:

Since the May 2016 report to the Commission, the Department recommends 12 new capital projects to be amended into the 2016 SHOPP, as summarized in Attachment 1. The amendments noted below would be funded from the Major Damage Restoration, Safety Improvement, Roadside Preservation and 2016 SHOPP programming capacity.

2016 SHOPP Summary of New Projects by Category	No.	FY 2016/17 (\$1,000)	FY 2017/18 (\$1,000)	FY 2018/19 (\$1,000)	FY 2019/20 (\$1,000)
Major Damage Restoration	3		\$1,210		\$17,312
Collision Reduction	9		\$3,741	\$3,471	\$34,373
Total Amendments	12		\$4,951	\$3,471	\$51,685

The Department also recommends that the capital projects, as summarized in Attachment 2 will be amended into the 2016 SHOPP.

CHAIR AND COMMISSIONERS CALIFORNIA TRANSPORTATION COMMISSION

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BACKGROUND:

In each even numbered year, the Department prepares a four-year SHOPP which defines major capital improvements necessary to preserve and protect the State Highway System. Periodically, the Department amends the SHOPP to address newly identified needs prior to the next programming cycle. Between programming cycles, the Department updates scope, schedule and cost to effectively deliver projects.

Resolution G-00-13, established in June 2000, provides the Department with means to develop SHOPP projects which require periods longer than the four-year SHOPP cycle. The Commission authorized the Department to program projects for development only when appropriate. Long Lead projects must identify challenges that require additional time beyond the typical four years to complete.

Senate Bill 486, approved by Governor September 30, 2014, requires Commission approval of projects amended into the SHOPP.

Attachments

Reference No.: 2.1a.(2a)
June 29-30, 2016
Attachment 1
Page 1 of 3
REPLACEMENT ITEM

List of New 2016 SHOPP Capital Project Amendments

	1	List of New 2016 SHOPP C	apitai i roje	Ct An	lenumen	13	
PPNO	Dist-Co-Rte PM EA Project ID	Project Location and Description of Work	R/W Cost Const. Cost (\$1,000)	FY	Suppor (\$1,	rt Costs 000)	Program Code Leg. /Congr. Dists. Perf. Meas.
Major D	amage Restorati	on					
5036	7-LA-47 0.8 32610 07 1600 0112	In San Pedro, at the Park and Ride lot, near the eastbound Harbor Boulevard off-ramp. Construct solder pile wall to stabilize the existing eroding slope and repair drainage system. PAED: 01/15/17 R/W: 07/01/17 RTL: 07/31/17 BC: 01/2/18	\$ 10 (R/W) \$ 1,200 (C)	17/18	PA & ED PS & E RW Sup Con Sup Total	\$79 \$459 \$10 \$390 \$938	201.131 Assembly: 54 Senate: 28 Congress:36 1 Location
3002U	8-RIV-95 14.0/36.2 1G000 08 1500 0107	Near Blythe, from north of Palo Verde Dam Road to the San Bernardino County line. Restore storm eroded embankments with rock slope protection and replace culverts. A previous Emergency Opening EA 08-1F800 repaired roadway. PAED: 08/01/18 R/W: 12/02/19 RTL: 03/02/20 BC: 12/01/20	\$ 600 (R/W) \$ 8,170 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total	\$926 \$901 \$63 \$2,462 \$4,352	201.131 Assembly: 56 Senate: 28 Congress:36 20 Locations
3005P	8-SBd-62 124.0/142.0 1G010 08 1500 0106	Near Vidal Junction, from west of Route 95 to west of Parker Dam Road. Restore storm eroded embankments with rock slope protection. A previous Emergency Opening EA 08-1F660 repaired roadway. PAED: 08/01/18 R/W: 12/02/19 RTL: 03/02/20 BC: 12/01/20	\$ 107 (R/W) \$ 8,435 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total	\$1,279 \$902 \$76 \$1,940 \$4,197	201.131 Assembly: 33 Senate: 16 Congress:8 10 Locations
Collision	n Reduction		ı	1	ı	ı	
3640	2-Teh-36 12.6/13.1 1H970 02 1600 0051	Near Red Bluff, from 2.3 miles east to 2.8 miles east of Dry Creek Bridge. Curve improvement. PAED: 05/16/2018 R/W: 08/16/2019 RTL: 08/27/2019 CCA: 11/15/2021	\$109 (R/W) \$3,000 (C)	19/20	PA & ED PS & E RW Sup Con Sup	\$390 \$670 \$210 \$670 \$1,940	201.010 Assembly: 3 Senate: 4 Congress: 1 20 Collisions reduced

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List of New 2016 SHOPP Capital Project Amendments

	1	List of New 2016 SHOPP C	<u> apital Proje</u>	ct An	<u>iendmen</u>	ts	T
PPNO	Dist-Co-Rte PM EA Project ID	Project Location and Description of Work	R/W Cost Const. Cost (\$1,000)	FY		rt Costs 000)	Program Code Leg. /Congr. Dists. Perf. Meas.
Collision	n Reduction (Con	t.)	,			,	,
0738	4-Son-121 3.4/6.5 0G680 04 0002 0007	Near Schellville, from north of Tolay Creek Bridge to south of Yellow Creek Bridge. Widen for standard shoulders, upgrade curves to standard, and install rumble strips. PAED: 06/30/2018 R/W: 06/01/2020 RTL: 06/30/2020 CCA: 12/31/2021	\$6,264 (R/W) \$25,000 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total	\$2,500 \$3,750 \$1,800 \$4,200 \$12,250	201.010 Assembly: 2 Senate: 2 Congress: 2 13 Collisions reduced
2652	5-SLO-41 43.8/50.4 1H300 05 1600 0059	Near Cholame, from East Junction Route 46 to the Kern County line. Construct centerline rumble strip and replace striping and pavement markers. PAED: 07/01/16 R/W: 05/01/17 RTL: 07/10/17 BC: 11/21/17	\$ 416 (C)	17/18	PA & ED PS & E RW Sup Con Sup Total	\$0 \$269 \$19 \$125 \$413	201.010 Assembly: 35 Senate: 17 Congress:24 7 Collisions reduced
6780	6-KER-65 1.6/25.2 0U990 06 1600 0084	Near Bakersfield, from Imperial Street to County Line Road. Construct center line and shoulder rumble strips. PAED: 08/01/17 R/W: 01/15/18 RTL: 04/16/18 BC: 08/01/18	\$ 20 (R/W) \$ 850 (C)	17/18	PA & ED PS & E RW Sup Con Sup Total	\$350 \$490 \$10 \$400 \$1,250	201.010 Assembly: 32, 34 Senate: 14,16 Congress:21 38 Collisions reduced
6790	6-MAD-41 VAR 0U710 06 1600 0025	In Madera County, on Route 41 at various locations; also on Routes 49 and 145 at various locations. Construct center line and shoulder rumble strips. PAED: 05/01/16 R/W: 07/01/17 RTL: 08/01/17 BC: 01/02/18	\$ 10 (R/W) \$ 650 (C)	17/18	PA & ED PS & E RW Sup Con Sup Total	\$0 \$618 \$20 \$341 \$979	201.010 Assembly: 5 Senate: 14 Congress:16 41 Collisions reduced
4904	7-LA-14 R30.6 31700 07 1500 0234	Near Santa Clarita, on the Sierra Highway southbound on-ramp; also in Palmdale on the Palmdale Boulevard northbound off-ramp (PM R59.55). Apply High Friction Surface Treatment (HFST) on ramps. PAED: 02/03/17 R/W: 09/01/17 RTL: 10/05/17 BC: 05/02/18	\$ 695 (C)	17/18	PA & ED PS & E RW Sup Con Sup Total	\$40 \$165 \$0 \$145 \$350	201.010 Assembly:36, 38 Senate: 21 Congress:25 37 Collisions reduced

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 1 Page 3 of 3 REPLACEMENT ITEM

List of New 2016 SHOPP Capital Project Amendments

		List of New 2010 SHOFF C	apitai i i oje	Ct /XII	ichamen	LO	
PPNO	Dist-Co-Rte PM EA Project ID	Project Location and Description of Work	R/W Cost Const. Cost (\$1,000)	FY	Suppor (\$1,		Program Code Leg. /Congr. Dists. Perf. Meas.
Collision	n Reduction (Con	t.)					
3005M	8-SBD-15 174.0/175.0 1G460 08 1600 0005	Near Baker, from 2.5 miles north of Bailey Road to 1.5 miles south of Nipton Road. Cold plane and overlay with Open Graded Friction Course (OGFC). PAED: 04/17/17 R/W: 04/16/18 RTL: 07/16/18 BC: 03/15/19	\$ 10 (R/W) \$ 751 (C)	18/19	PA & ED PS & E RW Sup Con Sup Total	\$175 \$406 \$4 \$221 \$806	201.010 Assembly: 33 Senate: 16 Congress:8 40 Collisions reduced
5492E	12-ORA-241 18.3/18.7 0N300 12 1300 0194	In Santa Margarita, at the Santa Margarita Parkway northbound off/on ramps. Improve corner sight distance on the off ramp and improve the vertical curve, cross slope, drainage and overlay open grade asphalt concrete on the on ramp. PAED: 03/01/17 R/W: 05/01/18 RTL: 06/01/18 BC: 11/16/18	\$ 1,100 (C)	17/18	PA & ED PS & E RW Sup Con Sup Total	\$227 \$576 \$13 \$413 \$1,229	201.010 Assembly: 73 Senate: 33 Congress:45 55 Collisions reduced
4995A	12-ORA-405 6.9/10.3 0P220 12 1500 0053	In Irvine and Costa Mesa, from Jamboree Road to Route 73. Replace existing temporary railing with permanent concrete barrier. PAED: 06/01//17 R/W: 09/01/18 RTL: 10/01/18 BC: 04/01/19	\$ 2,710 (C)	18/19	PA & ED PS & E RW Sup Con Sup Total	\$200 \$1,300 \$0 \$1,000 \$2,500	201.010 Assembly: 74 Senate: 37 Congress:46, 48 8 Collisions reduced

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REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002

					HOPP Amen									
				Cost, Scope,			•							
				Includes Fe	ederal Emerg	•	Funds							
					(\$ Thousa	inds)								
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
01	Del Norte	101	36.1	Near Crescent City from 0.2 mile north of the	43640	0100V	0100000193	201.110	2016/17	1,500	50,448	PA&ED	7,000	7,000
				Smith River Overflow Bridge. Replace bridge.					2018/19	3,900	0	PS&E	3,700	3,700
				(G13 Contingency Project)								RW	520	650
												Const	8,400	(
Comments	: Completion of e	environmenta	al studies and c	consultations with resource and regulatory agencies v	vill take long	er than previ	ously anticipated	due to the co	mplexities in	n staging an	d constructing	the new bridg	ge in this ser	nsitive
				classified wild and scenic river. Regulatory agencies										
				roject. Right of Way capital and support increases ar										
contingenc	y project. These o	hanges add	\$2,530,000 to	the cost of the project and remove \$58,848,000 due	to contingen	cy conversio	n, resulting in a r	et reduction of	of \$56,318,0	000 to the co	st of the prog	ram.		
01	Humboldt	36	36.1/40.5	In and near Dinsmore, on Route 36 (Forest	43730	2272	0112000180	201.310	2016/17	1,020	6,090	PA&ED	200	200
				Highway 4). Roadway improvements.						2,550		PS&E	30	60
												RW	600	1,400
												Const	40	52
Comments	: Increases to su	pport are du	e to unanticipat	ted increased land surveys, Right of Way capital, Rig	ht of Way su	pport, and e	nvironmental miti	gation staff w	ork to comp	lete the pro	ect and coord	linate with the	Federal I an	ds
				I increases are caused by increased utility relocations						noto tino proj	,001 and 00010	amato war are	r odorar zari	
				I for construction under EA 01-4373U.		gee aaa	_,0,000 10 10		-,					
01	Humboldt	36	36.6/39.9	Near Dinsmore, from west of Burr Valley Road to	0E930	2409	0115000047	201.010	2016/17	231	7,441	PA&ED	90	90
	Hallibolat	00	00.0/00.0			2400	0110000047	201.010	2010/17	201	7,441	PS&E	75	75
UI				Iwest of Ruck Mountain Road. Widen to make lane										
ΟI				west of Buck Mountain Road. Widen to make lane										
O1				and shoulder widths standard, realign curves, and								RW	150	660
	Pight of Wov o	upport coat b	as increased d	and shoulder widths standard, realign curves, and improve roadway cross-slope.		to right of w	by and to record	mana in acco	rdanaa with	State law 1	Proviously this	RW Const	150 40	660 40
Comments				and shoulder widths standard, realign curves, and improve roadway cross-slope. ue to unplanned additional survey work to monumen	t the new sta		ay and to record i	maps in accoi	rdance with	State law. I	Previously this	RW Const	150 40	660 40
Comments addressed	by Federal Lands	participation	on project. Th	and shoulder widths standard, realign curves, and improve roadway cross-slope. ue to unplanned additional survey work to monument is change in responsibility adds \$510,000 to the cost	t the new sta		ay and to record i	maps in accoi	rdance with	State law. I	Previously this	RW Const	150 40	660 40
Comments addressed Project EA	by Federal Lands 01-43730 and EA	participation 01-0E930 w	on project. Th	and shoulder widths standard, realign curves, and improve roadway cross-slope. ue to unplanned additional survey work to monument is change in responsibility adds \$510,000 to the cost of the construction under EA 01-4373U.	t the new sta	ot.				State law. F		RW Const s work was ass	40 sumed to be	660 40
Comments addressed	by Federal Lands	participation	on project. Th	and shoulder widths standard, realign curves, and improve roadway cross-slope. ue to unplanned additional survey work to monument change in responsibility adds \$510,000 to the cost for construction under EA 01-4373U. Near Lakeport, at Lakeport Overcrossing.	t the new sta		ay and to record of 0112000184	201.378	rdance with 2016/17	State law. F	478	RW Const s work was ass PA&ED	150 40 sumed to be	660 40 160
Comments addressed Project EA	by Federal Lands 01-43730 and EA	participation 01-0E930 w	on project. Th	and shoulder widths standard, realign curves, and improve roadway cross-slope. ue to unplanned additional survey work to monument is change in responsibility adds \$510,000 to the cost of the construction under EA 01-4373U.	t the new sta	ot.				State law. F		RW Const s work was ass PA&ED PS&E	150 40 sumed to be 206 228	160 350
Comments addressed Project EA	by Federal Lands 01-43730 and EA	participation 01-0E930 w	on project. Th	and shoulder widths standard, realign curves, and improve roadway cross-slope. ue to unplanned additional survey work to monument change in responsibility adds \$510,000 to the cost for construction under EA 01-4373U. Near Lakeport, at Lakeport Overcrossing.	t the new sta	ot.				State law. F	478	RW Const s work was ass PA&ED PS&E RW	150 40 sumed to be 206 228 63	160 350
Comments addressed Project EA 01	by Federal Lands 01-43730 and EA Lake	participation 01-0E930 w 29	on project. Thill be combined	and shoulder widths standard, realign curves, and improve roadway cross-slope. ue to unplanned additional survey work to monument is change in responsibility adds \$510,000 to the cost for construction under EA 01-4373U. Near Lakeport, at Lakeport Overcrossing. Upgrade pedestrian facilities.	t the new sta of the project 0B690	3097	0112000184	201.378	2016/17	7	478 645	RW Const s work was ass PA&ED PS&E RW Const	150 40 sumed to be 206 228 63 265	160 350 16 265
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Comments: Project is on Main Street in historic downtown and is required to upgrade adjacent pedestrian ADA facilities. Some existing ramps were assumed to be ADA compliant, but are not. Complications upgrading ADA ramps and impacts to historic buildings has increased the design effort. In working with local city staff, Complete Streets has been implemented to evaluate solutions for pedestrian and bicycle movement. These issues have increased the support cost for design, as well as Construction capital. Right of Way support and capital cost have increased for expanded construction easements and encroachment permits and for utility work. There is an additional increase for Construction capital cost escalation. These changes add \$3,685,000 to the cost of the project.

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 2 of 18

REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002

				Cost, Scope,	Schedule and	d Technical	Changes							
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Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
02	Plumas	89	29.5/30.5	Near Canyon Dam, at Lake Almanor Spillway.	0E180	3349	0200000022	201.113	2016/17	60	9,000	PA&ED	1,100	1,100
				Replace bridge.						465	9,810	PS&E	1,300	2,155
												RW	300	70
												Const	1,600	2,400
Comments	: In January 201	6, the Project	t team learned	that federal regulations require approvals from the Fe	ederal Energ	y Regulatory	Commission (FI	RC) and the	State Divisi	on of Safety	of Dams (DS	SOD). As such,	FERC and [DSOD
coordinatio	n and approval inc	creases desi	gn support and	Right of Way capital. Construction support increase	s are due to	reduced cor	struction window	and accelera	ated schedu	le required b	by FERC. Co	nstruction capit	al increase v	vill pay
				onger traffic detour is necessary at greater cost, deto										
				ese changes add \$2,640,000 to the cost of the projec		•		•	•		·		·	
02	Shasta	<u> </u>	R4.6/R6.4	Near Palo Cedro, from Clough Creek Bridge to 0.6	36841	3595	0215000066	201.310	2016/17	500	θ	PA&ED	200	200
02	Gridota	1	111.0/110.1	mile west of Deschutes Road Overcrossing.	00011	0000	021000000	201.010	2010/11	000	3,550	PS&E	1,200	1,500
				Traffic operational improvements. (G13-							3,330	RW	500	210
				Contingency Project)								Const	000	
	L	<u> </u>	L				L						9	2,000
				funded project. Increase to design support is due to	design modi	fications tha	t shortened the b	ridge and relo	ocated an of	f-ramp. Rig	ht of Way sup	port is decreas	ed because	the land
acquisition	is reduced. This	change adds	\$10,000 to the	cost of the project.										
02	Shasta	151	5.5/R5.8	In Shasta Lake City, from west of Coram	4F790	3524	0213000033	201.378	2017/18	317	1,683	PA&ED	205	205
				Underpass to Locust Avenue. Upgrade curbs,						146		PS&E	295	505
				sidewalks and crosswalks.								RW	250	522
				Sidewaiks and crosswaiks.								1 1 1 1 1	200	522
				Sidewalks and crosswalks.								Const	250	
Comments	· Support increas	ses are due t	o unanticipated		ocal agency	coordination	Coordination et	ffort included	local desire	for sidewalk	design to all	Const	250	517
				I design complexity of sidewalks and ramps and for k								Const ow future City li	250 ghting. Righ	517 it of Way
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Comments adjacent Caseason. Th	rease is due to adensure strict ADA Siskiyou : A decrease in Falifornia Highway lese changes are Siskiyou : Hydraulic studion revised foundation	PA&ED support Patrol truck ea net zero color a net zero color support Patrol truck ea net zero c	ocation coordinate Right of Way care 2.7/R11.4 ort as a result of the project of the project 20.9/21.2 a need to raise a greater cost. In greater const.	I design complexity of sidewalks and ramps and for lonation. Construction support increase is due to reevaluation. Construction support increase is due to reevaluation. Construction support increase is due to reevaluation. Construction and near Dunsmuir, from Sacramento River Bridge to 0.6 mile south of North Mount Shasta Underpass. Rehabilitate roadway. If project efficiencies offsets an increase to the designability has increased the design support cost. Construction. Near McCloud, at Mud Creek Bridge No. 02-0046. Replace bridge. The bridge to increase the flow that can pass under it PS&E support cost has increased due the additional	aluation of sc determined to 4G550 In and construction support 4F550 This results Il design effo	ope conside fewer parcel 3560 uction support increase is 3519 s in lengther rt caused by	ring the added or s needed. These 0214000036 ort efforts. Development to reevaluate 0213000005	complexity to one changes add 201.122 common of project 201.110 common and a growth	versight AD d \$578,000 2016/17 nplicated st working day 2017/18	A projects a to the cost of 464 aging plans as that have	to minimize ir increased by tall cost. Furt	Const Ow future City lists ary coordinated PA&ED PS&E RW Const The addition of a PA&ED PS&E RW Const the addition of a RW Const RW Const PS&E RW Const PS&	250 ghting. Righton of all project 4,590 4,300 270 4,870 traffic and the a third construction 550 510 150 630 chnical studi	517 at of Way ect 850 5,300 270 7,610 e ruction 550 860 150 1,200 es
Comments adjacent Caseason. The O2 Comments resulted in a for environr	ease is due to adensure strict ADA Siskiyou : A decrease in Falifornia Highway ese changes are Siskiyou : Hydraulic studion arevised foundation mental mitigation are	PA&ED supp Patrol truck e a net zero co 89 es revealed a ion design at and monitorir	ocation coordinate Right of Way care 2.7/R11.4 ort as a result of the project of the project 20.9/21.2 a need to raise a greater cost. In greater const.	I design complexity of sidewalks and ramps and for lanation. Construction support increase is due to reevaluation. Construction support increase is due to reevaluation. Construction support increase is due to reevaluation. Construction in and near Dunsmuir, from Sacramento River Bridge to 0.6 mile south of North Mount Shasta Underpass. Rehabilitate roadway. If project efficiencies offsets an increase to the designation increased the design support cost. Constructed. Near McCloud, at Mud Creek Bridge No. 02-0046. Replace bridge. The bridge to increase the flow that can pass under it PS&E support cost has increased due the additional ruction. These changes add \$2,020,000 to the cost of the support cost of the support cost of the cost of the support cost of the support cost of the cost of the support cost of the support cost of the cost of the support co	aluation of sc determined for determ	ope conside fewer parcel 3560 uction support increase is 3519 s in lengther rt caused by	ring the added or s needed. These of the second of the sec	complexity to one changes add 201.122 common of project 201.110 common and a graph construction	versight AD 4 \$578,000 2016/17 mplicated staworking day 2017/18 reater Consupport cos	A projects a to the cost of 464 aging plans is that have 81	to minimize ir increased by 2,600 3,700 ital cost. Furthersed due to the the project.	Const ow future City lipsary coordination PA&ED PS&E RW Const npacts to local the addition of a compact of the addition of the add	ghting. Righton of all project 4,590 4,300 270 4,870 traffic and the athird construction 550 630 chnical studi the additional 500	517 at of Way ect 850 5,300 270 7,610 e ruction 550 1,200 es al need
Comments adjacent Caseason. The O2 Comments resulted in a for environr	ease is due to adensure strict ADA Siskiyou : A decrease in Falifornia Highway ese changes are Siskiyou : Hydraulic studion arevised foundation mental mitigation are	PA&ED supp Patrol truck e a net zero co 89 es revealed a ion design at and monitorir	ocation coordinate Right of Way care 2.7/R11.4 ort as a result of the project of the project 20.9/21.2 a need to raise a greater cost. In greater const.	I design complexity of sidewalks and ramps and for location. Construction support increase is due to reevaluation. Construction support increase is due to reevaluation. Construction support increase is due to reevaluation. Construction and near Dunsmuir, from Sacramento River Bridge to 0.6 mile south of North Mount Shasta Underpass. Rehabilitate roadway. If project efficiencies offsets an increase to the design support cost. Construction. Near McCloud, at Mud Creek Bridge No. 02-0046. Replace bridge. The bridge to increase the flow that can pass under it PS&E support cost has increased due the additional ruction. These changes add \$2,020,000 to the cost of the location of the side of the source of the support cost of the support cost of the support cost of the support cost of the cost of the support cost of the	aluation of sc determined for determ	ope conside fewer parcel 3560 uction support increase is 3519 s in lengther rt caused by	ring the added or s needed. These of the second of the sec	complexity to one changes add 201.122 common of project 201.110 common and a graph construction	versight AD 4 \$578,000 2016/17 mplicated staworking day 2017/18 reater Consupport cos	A projects a to the cost of 464 aging plans is that have 81	to minimize ir increased by 2,600 3,700 ital cost. Furthered to the project.	Const ow future City lists of the const of	250 ghting. Righton of all project 4,590 4,300 270 4,870 traffic and the athird construction 550 510 150 630 chnical studithe additions	517 at of Way ect 850 5,300 270 7,610 e ruction 550 860 1,200 es al need 500 600
Comments adjacent Caseason. The O2 Comments resulted in a for environr	ease is due to adensure strict ADA Siskiyou : A decrease in Falifornia Highway ese changes are Siskiyou : Hydraulic studion arevised foundation mental mitigation are	PA&ED supp Patrol truck e a net zero co 89 es revealed a ion design at and monitorir	ocation coordinate Right of Way care 2.7/R11.4 ort as a result of the project of the project 20.9/21.2 a need to raise a greater cost. In greater const.	I design complexity of sidewalks and ramps and for location. Construction support increase is due to reevaluation. Construction support increase is due to reevaluation. Construction support increase is due to reevaluation. Construction and near Dunsmuir, from Sacramento River Bridge to 0.6 mile south of North Mount Shasta Underpass. Rehabilitate roadway. If project efficiencies offsets an increase to the designation of the design support cost. Construction. Near McCloud, at Mud Creek Bridge No. 02-0046. Replace bridge. The bridge to increase the flow that can pass under it PS&E support cost has increased due the additional ruction. These changes add \$2,020,000 to the cost of the location of the support cost of Swillup.	aluation of sc determined for determ	ope conside fewer parcel 3560 uction support increase is 3519 s in lengther rt caused by	ring the added or s needed. These of the second of the sec	complexity to one changes add 201.122 common of project 201.110 common and a gray construction c	versight AD 4 \$578,000 2016/17 mplicated staworking day 2017/18 reater Consupport cos	A projects a to the cost of 464 aging plans is that have 81	to minimize ir increased by 2,600 3,700 ital cost. Furthersed due to the the project.	Const ow future City lists ary coordination PA&ED PS&E RW Const npacts to local to the addition of a const PA&ED PS&E RW Const hermore, geotere changes and	ghting. Righton of all project 4,590 4,300 270 4,870 traffic and the athird construction 550 630 chnical studi the additional 500	517 at of Way ect 850 5,300 270 7,610 e ruction 550 860 1,200 es al need

Construction support has led to an increase. These changes result in a net reduction of \$59,000 to the cost of the project.

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 3 of 18 REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002 Cost, Scope, Schedule and Technical Changes Includes Federal Emergency Relief Funds (\$ Thousands)

				Includes Fe	(\$ Thousa	inds)								
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
02	Siskiyou	263	57.1	Near Yreka, at Klamath River Bridge No. 02-0015. Replace bridge.	2E480	3424	0200000586	201.110	2017/18	330 440	8,500 15,300	PA&ED PS&E RW Const	1,800 1,600 180 1,900	2,70 1,60 28 2,62
support. R Construction and off-site	ght of Way suppo n capital increase mitigation and po	rt and capita s are due to st-construction	l costs increase the change in s on monitoring s	ovironmental documents lead to revising project scoped due to an added parcel, additional utility impacts, a structure type and foundations, and revised roadway oupport expenses. These changes add \$8,630,000 to	nd new relo quantity assi the cost of	cation assist umptions. T the project.	tance. Increased he change in stru	I mitigation an	d permit fee sulted in ree	es and demo	olition costs al Construction	so increased R support costs	Right of Way and addition	n PA&EI capital. al on-site
03	El Dorado	50	67.3	Near South Lake Tahoe, west of South Lake Tahoe at Echo Summit Sidehill Viaduct Bridge No. 25-0044. Rehabilitate or replace bridge.	3F530	3304	0313000135	201.110	2017/18	27	6,000	PA&ED PS&E RW Const	624 1,317 16 1,502	1,00 1,10 1 1,50
				responding PS&E support decrease, has occurred be ect team needing early studies for potential detour an										
03	Placer	80	28.5/31.5	In and near Colfax, from 0.3 mile south of Weimar Overhead to 0.3 mile south of Illinoistown Overcrossing. Rehabilitate culvert.	3E050	5096	0300020597	201.151	2017/18	82	1,143 1,043	PA&ED PS&E RW	190 260 60 380	29 26
												Const	300	38
from the pro		culvert being	removed is to	I for detailed field survey of the culverts and to study a be done as a separate project due its deteriorating co								sult of the rem	oval of two o	culverts
from the pro	oject scope. One	culvert being	removed is to									sult of the rem	oval of two o	culverts hese 54 90 44
from the prochanges ar	oject scope. One o e a net zero cost f	culvert being or the projec 5	9.7/22.7	In Sacramento, from 1.1 miles south of Elk Grove Boulevard to Route 50. Install fiber optic cable. (G13 Contingency Project)	ondition and	urgency for	repair. The seco	ond culvert is	being remov	ed from the	project since	esult of the remeit was already PA&ED PS&E RW	oval of two or repaired. T	culverts hese 54 90 44
from the prochanges ar 03 Comments 03	pject scope. One e a net zero cost for Sacramento : Change G13 Co	culvert being or the project 5 ontingency p	9.7/22.7 9.7/22.7 roject to a fully 15.7/23.8	In Sacramento, from 1.1 miles south of Elk Grove Boulevard to Route 50. Install fiber optic cable. (G13 Contingency Project) funded project. In Sacramento and Placer Counties, on Routes 51, 65 and 99 at various locations. Install ramp meters. (G13 Contingency Project)	ondition and	urgency for	repair. The seco	ond culvert is	being remov	ed from the	project since	esult of the remeit was already PA&ED PS&E RW	oval of two or repaired. T	54 90 44 1,50 1,00 2,10 1,00
from the prochanges ar 03 Comments 03	oject scope. One e a net zero cost f Sacramento : Change G13 Co	culvert being or the project 5 ontingency p	9.7/22.7 9.7/22.7 roject to a fully 15.7/23.8	In Sacramento, from 1.1 miles south of Elk Grove Boulevard to Route 50. Install fiber optic cable. (G13 Contingency Project) funded project. In Sacramento and Placer Counties, on Routes 51, 65 and 99 at various locations. Install ramp meters. (G13 Contingency Project)	ondition and 4F450	urgency for 5846	0314000164	201.315	being remov	ed from the	e project since 0 6,600	PA&ED PA&ED Const PA&ED PS&E RW Const PA&ED PS&E RW RW ROMED ROME PA&ED RW RW	oval of two of repaired. T 540 900 440 0 1,000 2,100	

Comments: An increase to Construction support due to the use of LEED certification on the project. LEED building projects have specialty design and construction administration considerations. There is a need to review multiple and complex Requests for Information (RFI's) and submittals by subject matter experts in various disciplines including materials quality control/assurance during construction administration. This change adds \$1,000,000 to the cost of the project.

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 4 of 18

REPLACEMENT ITEM

				2016 SH	HOPP Amen	dment 16H-0	002							
				Cost, Scope,										
				Includes Fe	ederal Emerg	gency Relief	Funds							
					(\$ Thousa	ands)								
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
04	Alameda	680	M0.0/M4.0	In Fremont, from south of Scott Creek Road to	3G602	0587J	0414000484	201.120	2016/17	10	16,500	PA&ED	0	(
				Auto Mall Parkway. Rehabilitate roadway.				201.122		160	17,600	PS&E	2,470	2,470
												RW	80	80
												Const	3,300	3,300
Comments	: Hydraulic analy	sis of the roa	adway determin	ned a need to increase the roadway cross slope to sta	andard; at ar	n increased (Construction capit	tal cost. Envi	ronmental c	onsultation	with the resou	ırce agency de	termined	
				eased Right of Way capital to purchase mitigation bar										sified
				hese changes add \$1,250,000 to the cost of the proj						·				
04	Alameda	680	M4.0/R12.4	In and near Fremont, from Auto Mall Parkway to	3G601	0587E	0414000483	201.12	2016/17	10	18,860	PA&ED	883	883
				Koopman Road. Rehabilitate roadway.							25,360	PS&E	2,830	2,830
												RW	170	170
												Const	2,830	4,200
Comments	: This project is b	being combir	ed for construc	ction with the Northbound Express Lane Project (EA	04-4G053) sı	ponsored by	the Alameda Cou	unty Transpo	tation Com	mission (AC	TC). The orig	inal programe	d amount as	sumed
				outside shoulders and therefore limit the SHOPP reh										
				. The SHOPP project rehab scope therefore increase										
support. Th	nis change adds \$	37,870 to the	cost of the proj	ect.					·	· ·			·	
04	Alameda	880	11.9/27.5	Near In and near Union City, Hayward, San	4H580	0483W	0413000162	201.121	2016/17	40	0	PA&ED	654	654
			11.8/27.5	Leandro, and Oakland, from 0.4 mile north of							44,446	PS&E	2,700	2,700
				Fremont Boulevard Overcrossing to A Street								RW	166	166
				Undercrossing; also from 0.1 mile south of								Const	0	6,600
				Washington Avenue Overcrossing to south of High										
				Street undercrossing separation and overhead.										
				Rehabilitate pavement. (G13 Contingency Project)										
		ontingency p	roject to a fully	funded project. Change project limits to reduce over	lapping worl	k with other p	orojects. Add ram	np paving wo	rk at 4 locati	ons within th	he project limi	ts. These char	nges are a n	et zero
cost for the	project.													
04	Contra Costa	80	0.0/10.1	In Richmond, El Cerrito, San Pablo, Pinole and	4J340	1490E	0415000331	201.121	2016/17	85	0	PA&ED	0	C
				Hercules, from Alameda County line to Route 4.							37,770	PS&E	1,254	1,254
				Pavement rehabilitation. (G13 Contingency								RW	33	33
				Project)								Const	0	5,500
Comments	: Change G13 C	ontingency p	roject to a fully	funded project.										
04	Contra Costa	242	R1.6	In Concord, at Buchanan Field Viaduct No. 28-	4G810	0250B	0413000055	201.110	2016/17	80	1,520	PA&ED	360	360
				0186. Rehabilitate bridge.						495	1,824	PS&E	700	840
											,	RW	100	265
												Const	355	426
	: Increase to des	sian support.	Construction s	upport and Construction capital to accommodate for a	a newly iden	tified upgrad	e to the bridge ra	il and guardra	ail standards	and to add	ress bridge de	eck drainage is	sue. Also. a	
Comments				al is needed to address easement parcel that impacts									,	
		port and Rid	iii di vvay cabil				5	5	. , , -		i 1-			
increase in	Right of Way sup	port and Rig				1485.I	0414000529	201 131	2017/18	5	1.211	PA&FD	420	750
		1	0.3	Near Mill Valley, at Tennessee Valley Road.	2J560	1485J	0414000529	201.131	2017/18	5 50	1,211 1.515	PA&ED PS&E	420 525	750 525
increase in	Right of Way sup	1				1485J	0414000529	201.131	2017/18	5 50	1,211 1,515	PS&E	525	525
increase in	Right of Way sup	port and Rig		Near Mill Valley, at Tennessee Valley Road.		1485J	0414000529	201.131	2017/18	_				

design for relocation or workarounds. Early coordination with local partners has increased costs as well. The project scope has changed to include a roadside gutter to minimize sheetflow across the road and reduce slope erosion which increased Construction capital. Construction support has increased due to need for extensive public outreach for traffic management, biological monitoring of the environmentally sensitive areas of the project, and to manage the restrictive work windows that will increase the construction duration. These changes add \$847,000 to the cost of the project.

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 5 of 18 REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002

				Cost, Scope, S Includes Fe	Schedule and ederal Emerg (\$ Thousa	ency Relief								
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
04	Marin	1	6.6	Near Muir Beach, 0.3 mile north of Seacape Drive. Construct tie-back wall. (G13 Contingency Project)	3S900	0713F	0400001043	201.131	2016/17	285	0 5,860	PA&ED PS&E RW Const	0 3,500 434 0	0 3,500 434 1,000
Comments	: Change G13 Co	ntingency p	roject to a fully	I funded project.			l							-,
04	Marin	1	7.7/7.8	Near Muir Beach, 0.2 mile north of Cold Stream Fire Road. Construct tie-back wall(G13-Contingency Project)	3S910	0713G	0400001044	201.131	2016/17	157	6,174	PA&ED PS&E RW Const	168 2,700 284 0	168 2,700 284 1,000
Comments	: Change G13 Co	ontingency p	roject to a fully	funded project.										
04	Marin	1	8.1	Near Muir Beach, at Cold Stream Road. Construct retaining wall. (G13 Contingency Project)	4S660	0308J	0400001256	201.131	2016/17	100	9 2,200	PA&ED PS&E RW Const	1,311 600 128 0	1,311 600 128 830
anticipated.	The scope chang	ge is to bury	the planned ret	funded project. Increase to Construction support is c taining wall and rock slope protection under a vegeta the cost of the project.										
04	Marin	101	10.6/10.9	In San Rafael, from Route 101 northbound off- ramp to 2nd Street at San Rafael Harbor Bridge No. 27-0033. Replace bridge.	4G820	0350H	0413000049	201.110	2017/18	570	7,264	PA&ED PS&E RW Const	630 600 300 900	900 600 300 900
				n alternatives that require more effort than a typical t			es being conduct	ed require de	tailed mapp	ing, advanc	e preliminary	design, extens	sive public c	outreach
				se in support cost. This change adds \$270,000 to th		. ,	L 0440000050	004.404	0040447	0.5	I 47 400 I	BAAED	540	F.10
04	Napa	29	13.5/25.5	In and near Napa and Yountville, from north of Trancas Street/Redwood Road to Mee Lane. Rehabilitate pavement.	4H200	0378E	0413000258	201.121	2016/17	9 5 1 53	17,100	PA&ED PS&E RW Const	510 1,900 35 2,100	510 1,900 35 2,100
				I addition of a temporary construction easement and a /stem work. This change adds \$58,000 to the cost of		drainage ea	I sement that are r	equired for c	urb ramps a	nd drainage	work. Also, a		·	
04	Napa	29	37.0	In Calistoga, at Napa River Bridge No. 21-0018. Environmental mitigation and plant establishment for bridge replacement project.	3G64A	0587M	0416000349	201.111	2019/20	85	500	PA&ED PS&E RW Const	0 200 400 150	
				A 04-3G640 to create a separate project for on-site r ent of reworked impervious surface area off-site mition		ings with thre	ee to five year pla	ant establishn	nent require	ments, habi	at creation for	r freshwater s	hrimp with t	en year
04	Napa	121	9.2/9.4	Near Napa, at Sarco Creek Bridge No. 21-0008. Plant establishment for bridge replacement project. A 04-2A320 to create a separate project for plant est	2A32A	0380N	0416000347	201.111	2017/18	100	100	PA&ED PS&E RW Const	0 50 30 70	

Comments: Split of this mitigation project from parent EA 04-2A320 to create a separate project for plant establishment and monitoring period. Increased cost for PS&E design for the mitigation project. These changes add \$50,000 to the cost of the project.

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 6 of 18 REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002

					HOPP Amen									
				Cost, Scope,										
				includes Fe	ederal Emerç housa)		runas							
D: 1	<u> </u>	I 5 (D (147)	D : :: # ::	`		I FEIO		E)/	DW	1 0 1 1		<u> </u>	
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	4.400
04	Napa	128	R7.4	Near Rutherford, at Conn Creek Bridge No. 21-	1G430	0587H	0412000126	201.111	2016/17	20	7,165	PA&ED	960	1,188
				0021. Replace bridge.					2017/18	3,800		PS&E RW	1,050	1,500
													150	950
												Const	1,000	1,000
				between a bridge wing wall and large waterline main										
				ntributed to an increase in design and Right of Way s										
				diversion system. In addition, environmental impact r		s also increa	sed these costs.	Also, a fiscal	year delay	is due to util	ity relocation	conflicts with ne	ecessary co	nstruction
		t of way prop		ese changes add \$5,258,000 to the cost of the projec										
04	San Mateo	1	44.0	In Pacifica, at San Jose Avenue Pedestrian	4G850	0681Q	0413000052	201.110	2016/17	5	3,662	PA&ED	500	500
				Overcrossing Bridge No. 35-0240. Replace							4,445	PS&E	400	1,750
				bridge.								RW	100	125
												Const	450	1,400
Comments	: The Construction	on capital es	timate has incr	eased, during advance design due to an increase in t	he price inde	x used to ac	count for update	d material cos	ts, inflation	and escala	tion for the ye	ar of constructi	on. Cost als	so
				gn and a refinement of the bridge length. Support co										
				the cost of the project.			0 1 3	•				J	•	
04	San Mateo	82	13.7	Near Burlingame and Hillsborough city limits, at	1G020	0686	0400002011	201.010	2016/17	1,765	2,253	PA&ED	846	846
•		"-		the intersection of Route 82 and Floribunda	. 5 5 2 5				2017/18	.,. 00	_,	PS&E	1,300	1,300
				Avenue. Install left turn signal.					2011710			RW	450	450
				7 Worldo. Motali fort tarri olgifal.										
Commonto	Dolov to the Fis	and Voor (E)	() delivery dete		avement rea	usatad by th	a lacal communit	n. As the res	ult of cianifi	ant nublic o	emmenta rec	Const	700	700
				to allow time for the full evaluation of an interim impr								Const eived regarding	700 the remova	700
												Const eived regarding	700 the remova	700
and visual o	changes to the co	orridor, an op	erations pilot st	to allow time for the full evaluation of an interim impr tudy was put in place for a temporary left-turn prohibit	ion study be	fore finalizing	the environmen	tal approval p	hase. Thes	se changes a	are a net zero	Const eived regarding cost for the pro	700 g the remova oject.	700 al of trees
				to allow time for the full evaluation of an interim impretudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-								Const eived regarding cost for the pro	700 g the remova oject.	700 al of trees 1,836
and visual o	changes to the co	orridor, an op	erations pilot st	to allow time for the full evaluation of an interim impr tudy was put in place for a temporary left-turn prohibit	ion study be	fore finalizing	the environmen	tal approval p	hase. Thes	se changes a	are a net zero	Const eived regarding cost for the property PA&ED PS&E	700 the remove oject. 1,836 2,754	700 al of trees 1,836 3,500
and visual o	changes to the co	orridor, an op	erations pilot st	to allow time for the full evaluation of an interim impretudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-	ion study be	fore finalizing	the environmen	tal approval p	hase. Thes	se changes a	are a net zero	Const eived regarding cost for the pro PA&ED PS&E RW	700 g the remova oject.	700 al of trees 1,836
and visual o	Solano	erridor, an ope	12.1/12.2	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project)	ion study bei	ore finalizing	the environmen	tal approval p	2018/19	e changes a	are a net zero	Const eived regarding cost for the pro PA&ED PS&E RW Const	700 g the remova oject. 1,836 2,754 1,098 0	700 al of trees 1,836 3,500 1,098
and visual of the other of the	Solano Solano As a result of co	84 sonsultations	12.1/12.2 with environme	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was	0G660 cchanged. 1	ore finalizing 0886 The roadway	the environmen 040000343 realignment add	201.110 ed permanen	2018/19	2,884	o 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne	700 g the remova oject. 1,836 2,754 1,098 0	700 al of trees 1,836 3,500 1,098 0
and visual of the other of the	Solano Solano As a result of co	84 sonsultations	12.1/12.2 with environme	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project)	0G660 cchanged. 1	ore finalizing 0886 The roadway	the environmen 040000343 realignment add	201.110 ed permanen	2018/19	2,884	o 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne	700 g the remova oject. 1,836 2,754 1,098 0	700 al of trees 1,836 3,500 1,098 0
04 Comments methods. I	Solano Solano As a result of contaddition, a control	84 sonsultations rol tower to o	12.1/12.2 with environme	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was	0G660 cchanged. 1	ore finalizing 0886 The roadway	the environmen 040000343 realignment add	201.110 ed permanen	2018/19	2,884	o 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne	700 g the remova oject. 1,836 2,754 1,098 0	700 al of trees 1,836 3,500 1,098 0
04 Comments methods. I support cos	Solano Solano As a result of contaddition, a contrats for the project.	84 sonsultations rol tower to o	12.1/12.2 with environme perate the bride adds \$746,00	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was ge swing span has been added. Also, additional perroot to the cost of the project.	OG660 changed. Third will be re	ore finalizing 0886 he roadwayequired from	o the environment of the environment of the environment add various agencies	201.110 201.ed permanen s, which were	2018/19 t take, and r	2,884 modified conpreviously.	0 struction stag	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne ges increase the	700 g the remove oject. 1,836 2,754 1,098 0 od construction design PS	700 al of trees 1,836 3,500 1,098 0 on &E
04 Comments methods. I	Solano Solano As a result of contaddition, a control	84 sonsultations rol tower to o	12.1/12.2 with environme	Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was ge swing span has been added. Also, additional perroportion to the cost of the project. South of Carmel, at seven (7) locations from north	0G660 cchanged. 1	ore finalizing 0886 The roadway	the environmen 040000343 realignment add	201.110 ed permanen	2018/19	2,884 modified conpreviously.	o 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne ges increase the	700 g the remova oject. 1,836 2,754 1,098 0 d constructive design PS	700 al of trees 1,836 3,500 1,098 0 on &E
04 Comments methods. I support cos	Solano Solano As a result of contaddition, a contrats for the project.	84 sonsultations rol tower to o	12.1/12.2 with environme perate the bride adds \$746,00	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was ge swing span has been added. Also, additional perrol to the cost of the project. South of Carmel, at seven (7) locations from north of the San Luis Obispo County line to south of	OG660 changed. Third will be re	ore finalizing 0886 he roadwayequired from	o the environment of the environment of the environment add various agencies	201.110 201.ed permanen s, which were	2018/19 t take, and r	2,884 modified conpreviously.	0 struction stag	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne ges increase the PA&ED PS&E	700 g the remova oject. 1,836 2,754 1,098 0 ed constructive design PS 672 1,154	700 al of trees 1,836 3,500 1,098 0 on &E
04 Comments methods. I support cos	Solano Solano As a result of contaddition, a contrats for the project.	84 sonsultations rol tower to o	12.1/12.2 with environme perate the bride adds \$746,00	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was ge swing span has been added. Also, additional perrol to the cost of the project. South of Carmel, at seven (7) locations from north of the San Luis Obispo County line to south of Malpaso Creek Bridge. Rehabilitate and/or	OG660 changed. Third will be re	ore finalizing 0886 he roadwayequired from	o the environment of the environment of the environment add various agencies	201.110 201.ed permanen s, which were	2018/19 t take, and r	2,884 modified conpreviously.	0 struction stag	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne ges increase the PA&ED PS&E RW	700 g the remova oject. 1,836 2,754 1,098 0 od construction e design PS 672 1,154 288	700 al of trees 1,836 3,500 1,098 0 on &E 400 1,154 344
O4 Comments methods. I support cos	Solano Solano As a result of contaddition, a contrats for the project. Monterey	84 consultations rol tower to o This change	with environme perate the bride adds \$746,00	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was ge swing span has been added. Also, additional perrol to the cost of the project. South of Carmel, at seven (7) locations from north of the San Luis Obispo County line to south of Malpaso Creek Bridge. Rehabilitate and/or replace culverts.	on study being of the order of	ore finalizing 0886 The roadway equired from 2478	o the environment of the environ	201.110 ed permanen s, which were	2018/19 t take, and r not needed	2,884 modified con previously. 84 300	0 Instruction stage These change 3,279	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne ges increase the PA&ED PS&E RW Const	700 g the remova oject. 1,836 2,754 1,098 0 od construction e design PS 672 1,154 288 783	700 al of trees 1,836 3,500 1,098 0 on &E 400 1,154 344 783
O4 Comments methods. I support cos 05 Comments	Solano Solano As a result of contaddition, a contrats for the project. Monterey PA&ED suppor	84 sonsultations rol tower to o This change	with environme perate the bride adds \$746,00 2.5/67.3	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was ge swing span has been added. Also, additional perrol to the cost of the project. South of Carmel, at seven (7) locations from north of the San Luis Obispo County line to south of Malpaso Creek Bridge. Rehabilitate and/or replace culverts. ng environmental studies done previously by three se	OG660 s changed. This will be responded to the control of the con	ore finalizing 0886 The roadway equired from 2478	realignment add various agencies 0513000052 hat later were de	201.110 ed permanen s, which were 201.151	2018/19 t take, and r not needed	2,884 modified con previously. 84 300	0 Instruction stage These change 3,279	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne ges increase the PA&ED PS&E RW Const	700 g the remova oject. 1,836 2,754 1,098 0 od construction e design PS 672 1,154 288 783	700 al of trees 1,836 3,500 1,098 0 on &E 400 1,154 344 783
Comments methods. I support cos 05 Comments project will	Solano Solano As a result of contaddition, a contricts for the project. Monterey PA&ED supportequire environments	84 sonsultations rol tower to o This change	with environme perate the bride adds \$746,00 2.5/67.3	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit. Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was ge swing span has been added. Also, additional perroo to the cost of the project. South of Carmel, at seven (7) locations from north of the San Luis Obispo County line to south of Malpaso Creek Bridge. Rehabilitate and/or replace culverts. In genvironmental studies done previously by three seincreases the Right of Way support and capital costs.	on study being of the study bein	ore finalizing 0886 The roadway equired from 2478 The projects toges are a new control of the co	realignment add various agencies 0513000052 hat later were deet zero cost for the	ed permanen s, which were 201.151	t take, and r not needed	2,884 modified con previously. 84 300 project. Dur	one a net zero One struction stage These change 3,279 ring PA&ED p	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne ges increase the PA&ED PS&E RW Const the property of the property o	700 g the remova oject. 1,836 2,754 1,098 0 od construction design PS 672 1,154 288 783 termined tha	700 al of trees 1,836 3,500 1,098 0 on &E 400 1,154 344 783
O4 Comments methods. I support cos 05 Comments	Solano Solano As a result of contaddition, a contrats for the project. Monterey PA&ED suppor	84 sonsultations rol tower to o This change	with environme perate the bride adds \$746,00 2.5/67.3	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was ge swing span has been added. Also, additional perrol to the cost of the project. South of Carmel, at seven (7) locations from north of the San Luis Obispo County line to south of Malpaso Creek Bridge. Rehabilitate and/or replace culverts. In genvironmental studies done previously by three seincreases the Right of Way support and capital costs. North of Big Sur, from south of Bixby Creek Bridge	OG660 s changed. This will be responded to the control of the con	ore finalizing 0886 The roadway equired from 2478	realignment add various agencies 0513000052 hat later were de	201.110 ed permanen s, which were 201.151	2018/19 t take, and r not needed	2,884 modified con previously. 84 300 project. Dur	0 Instruction stage These change 3,279	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne ges increase the PA&ED PS&E RW Const hase, it was de	700 g the remova oject. 1,836 2,754 1,098 0 d construction design PS 672 1,154 288 783 termined tha	700 al of trees 1,836 3,500 1,098 0 on &E 400 1,154 344 783 at the
Comments methods. I support cos 05 Comments project will	Solano Solano As a result of contaddition, a contricts for the project. Monterey PA&ED supportequire environments	84 sonsultations rol tower to o This change	with environme perate the bride adds \$746,00 2.5/67.3	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was ge swing span has been added. Also, additional perrol to the cost of the project. South of Carmel, at seven (7) locations from north of the San Luis Obispo County line to south of Malpaso Creek Bridge. Rehabilitate and/or replace culverts. In genvironmental studies done previously by three seincreases the Right of Way support and capital costs. North of Big Sur, from south of Bixby Creek Bridge to south of Rocky Creek Bridge. Widen shoulders	on study being of the study bein	ore finalizing 0886 The roadway equired from 2478 The projects toges are a new control of the co	realignment add various agencies 0513000052 hat later were deet zero cost for the	ed permanen s, which were 201.151	t take, and r not needed	2,884 modified con previously. 84 300 project. Dur	one a net zero One struction stage These change 3,279 ring PA&ED p	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne ges increase the PA&ED PS&E RW Const hase, it was de	700 g the remova oject. 1,836 2,754 1,098 0 od construction design PS 672 1,154 288 783 termined that	700 al of trees 1,836 3,500 1,098 0 on &E 400 1,154 344 783 at the
Comments methods. I support cos 05 Comments project will	Solano Solano As a result of contaddition, a contricts for the project. Monterey PA&ED supportequire environments	84 sonsultations rol tower to o This change	with environme perate the bride adds \$746,00 2.5/67.3	to allow time for the full evaluation of an interim impritudy was put in place for a temporary left-turn prohibit Near Rio Vista, at Miner Slough Bridge No. 23-0035. Replace bridge. (G13 Contingency Project) ental agencies, the bridge replacement alignment was ge swing span has been added. Also, additional perrol to the cost of the project. South of Carmel, at seven (7) locations from north of the San Luis Obispo County line to south of Malpaso Creek Bridge. Rehabilitate and/or replace culverts. In genvironmental studies done previously by three seincreases the Right of Way support and capital costs. North of Big Sur, from south of Bixby Creek Bridge	on study being of the study bein	ore finalizing 0886 The roadway equired from 2478 The projects toges are a new control of the co	realignment add various agencies 0513000052 hat later were deet zero cost for the	ed permanen s, which were 201.151	t take, and r not needed	2,884 modified con previously. 84 300 project. Dur	one a net zero One struction stage These change 3,279 ring PA&ED p	Const eived regarding cost for the pro PA&ED PS&E RW Const ging and planne ges increase the PA&ED PS&E RW Const hase, it was de	700 g the remova oject. 1,836 2,754 1,098 0 d construction design PS 672 1,154 288 783 termined tha	700 al of trees 1,836 3,500 1,098 0 on &E 400 1,154 344 783 at the

Comments: The project PA&ED support cost have increased to account for an environmentally sensitive location on the coast that requires more resources to obtain environmental clearances. Development of the draft Project Report has identified Right of Way capital and support increases for additional acquisitions, utility relocations and fees. These changes add \$140,000 to the cost of the project.

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 7 of 18 REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002

					HOPP Amen									
				Cost, Scope, S										
				includes Fe	ederal Emerg housa)		runus							
					(φ THOUSE	iilus)								
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
05	Santa Barbara	101	17.2/45.9	In and near Goleta, at various locations from 0.6	1C970	2456	0513000020	201.235	2016/17	10	1,890	PA&ED	280	
				mile north of Las Positas Road to 1.3 mile south of								PS&E	650	770
				Gaviota Tunnel. Roadside safety improvements.								RW	12	12
												Const	550	800
Comments	: PS&E support c	ost increase	was to investi	gate Maintenance Vehicle Pullout configurations that	required add	ditional surve	ys and design. (Construction	support incr	ease is need	ded for addition	nal workings	days (from	120 to 180)
and plant es	stablishment days	(from 0 to 1:	25) as determir	ned by the approved Project Report. These changes	add \$370,00	00 to the cos	t of the project.							
05	Santa Cruz	9	22.1/23.8	In Castle Rock State Park, from 5.0 miles south to	1C650	2418	0512000185	201.015	2017/18	θ	7,658	PA&ED	1,050	1,938
				3.3 miles south of Route 35. Widen shoulders,						10		PS&E	1,842	
				replace guardrail and construct centerline rumble								RW	40	44
				strips.								Const	1,350	1,687
Comments	During project d	esian, consi	ultations with th	ne design reviewer identified the need for additional s	upport to inv	estigate add	itional curve corr	ections and s	uper-elevat	ion improve	ments. Also	additional Rig		•
				t previously identified in the PSR (Project Study Repo										
05	Santa Cruz	129	3.2/3.5	Near Watsonville, at Carlton Road. Improve-	1F350	2506	0513000103	201.010	2017/18	277	2,045	PA&ED	543	587
03	Garita Gruz	123	3.0/3.5	intersection.	11 330	2300	001000100	201.010	2017/10	135	2,700	PS&E	674	
			3.0/3.3	Near Watsonville, realign Carlton Road.						133	2,700	RW	309	401
				Construct a new intersection and a left-turn								Const	508	757
				channelization.								Oonst	000	757
Commonto	Dooign rofiname	ont has requi	ltad in a naw de		Lucy costion	 	ofaty factures m	inimizad right	of way imp	oot and an i	norocco in the	number of w	arkina dava	which
				esign speed for the realignment, a more defined road to PA&ED, PS&E, and Construction support, and an i									orking days	WIICH
06	Fresno	99	22.7/28.1	In the city of Fresno, from Shaw Avenue to	0K290	6744	0600020018	201.315	2016/17	104	0	PA&ED	755	755
				Belmont Avenue. Install ramp meters and							5,893	PS&E	1,062	1,062
				construct auxiliary lanes. (G13 Contingency								RW	522	522
				Project)								Const	0	1,288
Comments	: Change G13 Co	ntingency p	roject to a fully	funded project.		ı		•						
06	Fresno	180	77.2	Near the city of Fresno, at Kings River Overflow	0U120	6751	0615000207	201.110	2016/17	0	1,200	PA&ED	0	0
	1100110	.00		Bridge No. 42-0074. Replace bridge.	00120	0,0,	0010000201	2011110	2018/19	Ŭ	1,200	PS&E	0	0
				2age coage.					2010/10			RW	0	0
												Const	400	400
Commonts	This is a Financi	ial Contribut	ion Only (ECO)) project to STIP Project EA 06-34253. Due to a fund	ing shortfall	the STID pr	l pioet has boon m	oved to EV 1	9/10 thorofo	ro thic SUC	DPD project pe			
well.	. THIS IS A FIHANC	iai Continbut	ion only (FCO)	project to 3 Hr. Project EA 00-34233. Due to a fund	ing shortian,	the STIF ph	ojeci nas been m	oved to FT T	b/ 19, thereic	ne uns sinc	orr project ne	seus to be mo	veatorri	0/19 as
06	Kern	223	21.0/21.3	In and Near Arvin, at Derby Street. Install traffic	0S510	6709	0614000162	201.010	2017/18	74	891	PA&ED	348	348
				signals.								PS&E	545	775
												RW	345	345
												Const	400	530
	Negotiating right			equires an increase cost to PS&E support and Constr	uction suppo	ort for the de	sign requirement	s and coordi	nation efforts	s needed, th	ne increased o	ost includes e	scalation.	These
		•	•	Transport to the second	00040	0004	1 0044600444	004.400	004044=	40	1 ^	D4.0E5		
06	Tulare	198	K11.7/K19.8	In Visalia, from Lovers Lane to west of Route 245.	0S340	3034	0614000114	201.122	2016/17	10	0	PA&ED	545	
				Rehabilitate pavement. (G13 Contingency Project)							23,850	PS&E	1,040	1,525
												RW	55	55
												Const	0	3,700
Comments	Change G13 Co	ntingency p	roject to a fully	funded project. During project development, collabo	rative efforts	of Design, I	Maintenance and	Materials tea	ms have re	fined the sc	ope to change	the thickness	and mater	ial used fo

Comments: Change G13 Contingency project to a fully funded project. During project development, collaborative efforts of Design, Maintenance and Materials teams have refined the scope to change the thickness asphalt digouts, identifying new median drainage issues, additional rumble strips and additional pavement shoulder construction. These design changes add \$485,000 to the cost of the project.

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 8 of 18

REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002 Cost Scope Schedule and Technical Changes

				Cost, Scope, Includes Fe	Schedule and ederal Emerg (\$ Thousa	ency Relief								
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
07	Los Angeles	1	0.1/4.0	In Long Beach, Signal Hill and Lakewood on various routes at various locations. Mitigate for stormwater quality by installing bio-filtration swales, basins, media filters and gross solid removal devices, and other best management practices (BMP's).	28660	4390	0700020900	201.335	2016/17	10	17,500 10,000	PA&ED PS&E RW Const	0 2,450 300 2,600	0 2,977 300 2,600
				etric constraints and the inability to satisfy the BMP ty										
				SR in 2013 only proposed work on three routes. The PID resulting. These changes result in a net reduction						Additional st	udies and fiel	d reviews were	necessary	to study
07	Los Angeles	1	3.5	In Long Beach, at Lakewood Boulevard (Route 19) and Los Alamitos Traffic Circle. Install pavement delineation, overhead guide signs and associated roadway improvements.	29910	4632	0713000302	201.015	2016/17 2018/19	11	2,326	PA&ED PS&E RW Const	89 356 5 445	89 1,028 20 607
Comments Historic Pre	: Preliminary resease servation Act. The	earch has id e additional	entified the proj work will result	ect location impacts a potential historic property. Ad in a two year delay and add \$849,000 to the cost of	ditional envir he project.	onmental an	d archaeological	studies and ı	reports are i	equired for o	compliance w	ith Section 106	of the Natio	nal
07	Los Angeles	1	38.3/38.7	In the city of Los Angeles (Pacific Palisades), from north of Temescal Canyon Road to Bay Club Drive. Construct shoulders and upgrade guardrail.	27510	4159	0700000519	201.015	2016/17 2017/18	1,825 2,575	6,100	PA&ED PS&E RW Const	744 1,089 485 1,095	744 1,546 485 1,095
				e to a lengthy process in obtaining permits to enter the changes will delay the project one year and add \$1,2				A State beac	ch will be im	pacted that v	vill require a (California Coas	tal Commis	sion
07	Los Angeles	1		In Malibu, from Puerco Canyon Road to Corral Canyon Road. Reconstruct raised median island.	29930	4650	0713000310	201.010	2017/18	23	4,405	PA&ED PS&E RW Const	400 700 80 800	650 800 80 1,000
				and the coordination required with the city and their a		lane project	along the coast,	additional de	sign and en	vironmental	efforts are ne	eded. Traffic	chart now in	dicated a
•		period than v	•	hese changes add \$550,000 to the cost of the projec										
07	Los Angeles	1	56.5/56.9	In Malibu, from Guernsey Avenue to Trancas Canyon Road/Broad Beach Road. Replace bridge.	29140	4498	0712000094	201.110	2017/18	2,021	5,488	PA&ED PS&E RW Const	738 1,428 174 1,251	2,342 2,123 740 1,251
				as added to address some potential environmental is ts a larger area. These changes add \$2,865,000 to			ernative was in re	sponse to Co	astal Comn	nission conce	erns for fish p	assages and r	estoration o	the
07	Los Angeles	2	R18.6	Near Glendale; also in various cities, on various routes, at various locations. Upgrade the existing communication system to all fiber optic communications. (G13 Contingency Project)	30460	4719	0714000073	201.315	2016/17	10	6,714	PA&ED PS&E RW Const	81 1,028 2 0	81 1,028 2 1,480
Comments	: Change G13 C	ontingency p	roject to a fully	funded project.										

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 9 of 18 REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002 Cost, Scope, Schedule and Technical Changes

				Cost, Scope, S Includes Fe	Schedule and ederal Emerg Thousa ()	jency Relief								
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
07	Los Angeles	5	25.7	In the city of Los Angeles, near Glendale, at northbound off-ramp to Colorado Freeway. Extension. Widen off-ramp, replace MBGR with concrete barrier, and widen LA River Bridge to reduce truck off-tracking. In the city of Los Angeles, near Glendale, at the northbound and southbound off-ramps to Colorado Freeway Extension. Widen off-ramp, replace MBGR with concrete barrier and widen Los Angeles River Bridge to reduce truck off-tracking.	29230	4505	0712000109	201.015	2016/17	25	3,300 3,784	PA&ED PS&E RW Const	140 410 15 435	140 1,753 37 1,040
				is for bike detours, traffic study for ramp closures duri to the cost of the project.	ing construct	tion in addition	on to a storm wat	er report, haz	zardous was	te memo, pil	le foundations	s and a series	of complex	
07	Los Angeles	5	38.8/40.5	In the city of Los Angeles from Filmore Street to Rinaldi Street, also on Route 118 from Route 405 to west of San Fernando Road. Enhance highway worker safety by paving miscellaneous areas, install access gates and maintenance vehicle pullout areas.	29510	4586	0713000016	201.235	2017/18	0 1	2,053	PA&ED PS&E RW Const	113 333 0 466	250 883 5 800
				sources were identified to address the extensive biolo ded for the retaining walls and safety cable railings or							a more comp	lex environme	ental docume	ent. Also,
07	Los Angeles	10		In the city of Los Angeles, from West Boulevard to Hoover Street. Enhance highway worker safety by installing Maintenance Vehicle Pullouts, access gates and other measures.	29600	4597	0713000034	201.235	2017/18	0	1,749	PA&ED PS&E RW Const	110 438 5 531	110 985 5 531
surveys. It	was determined th	hat the meta	l beam guardra	e identified within the limits of the project, some of the ill systems had to be addressed and may need upgrathe cost of the project.										
07	Los Angeles	10	R14.0/19.0	In the city of Los Angeles, at Santa Monica Viaduct Bridge No. 53-1301. Paint and rehabilitate bridge. (G13 Contingency Project)	29660	4599	0713000057	201.110	2016/17	134 2,400	65,640	PA&ED PS&E RW Const	0 3,024 30 0	0 3,024 30 5,904
	 .			funded project. The project involves several different addition, there is now a need for a staging area that im			~						ind the acqu	isition of
07	Los Angeles	19	4.0/8.4 5.5/8.4	In Lakewood, Bellflower, Paramount and Downey, from Del Amo Boulevard to Gardendale Street. Upgrade curb ramps and sidewalks to Americanswith Disabilities Act (ADA) standards. In Bellflower, Paramount and Downey, from	28990	4485	0712000015	201.378	2016/17	507 1, 500	2,910	PA&ED PS&E RW Const	300 705 45 600	300 1,050 765 1,050

Comments: During PA&ED, the scope was refined identifying several utilities and drainage facilities needed relocating that were not originally in the PID. The updated scope requires additional support resources and Right of Way capital, for fire hydrants, electrical poles, guy wires, signal poles, catch basins and inlet relocation. These changes add \$2,508,000 to the cost of the project.

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 10 of 18 REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002

				Cost, Scope, S		dment 16H-t d Technical								
				Includes Fe		gency Relief	Funds							
					(\$ Thousa	ands)								
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
07	Los Angeles	27	0.0/11.1	Near Topanga, from Route 1 to Mulholland Drive.	29960	4652	0713000314	201.235	2016/17	0	1,490	PA&ED	54	101
			7.9/10.1	Enhance highway worker safety by installing weed							1,100	PS&E	284	700
				barrier, paving maintenance vehicle pull-outs, and other measures.								RW	θ 338	10
				Near Glenview, from Entrado Drive to								Const	330	389
				Woodland Crest Drive. Enhance highway										
				worker safety by installing weed control under										
				existing guardrail.										
				in order to coordinate with other CAPM projects in th				ct Report tha	t reduced th	e scope tha	t was best ind	luded in adja	cent projects	s. The
increased s	• •	sign resulte		n in Construction capital. These changes add \$87,000		of the projec								
07	Los Angeles	57	R7.7/R12.2	In San Dimas and Glendora from Route 10 to	29120	4494	0712000008	201.361	2016/17	252	2,257	PA&ED	200	200
				Route 210, also on Route 60 in and near the Cities							2,515	PS&E	400	900
				of Los Angeles, Monterey Park and Montebello.								RW	450	450
	<u> </u>		ļ	Construct ADA curb ramp improvements.			<u> </u>	<u> </u>				Const	400	800
	s: During the envi of the project.	ronmental pl		se in the electrical work needed was identified. The r	number of pe	edestrian pu:			om 5 to 8, re	sulting in mo	ore electrical v	work. This ch	ıange adds ∜	51,158,000
07	Los Angeles	60	R3.7/R6.3	In and near Monterey Park and Montebello, from	29580	4595	0713000037	201.235	2016/17	0	2,028	PA&ED	113	113
				Mednick Avenue to Markland drive. Enhance							2,684	PS&E	334	1,222
				highway worker safety by installing Maintenance								RW	400	5
				Vehicle Pullouts, access gates and other measures.								Const	466	600
Commonts	The DID did not	t account for	rotaining walls	that are required for each maintenance vehicle pullo	ut (M/\/D\ It :	was during t	ho Advanco Plan	ning Study d	uring the D/	\&ED phase	which identi	find the additi	ional olomon	te and
				hat two MVP's and retaining walls could be constructed.						ACD phase	, willcir ideili	ned the additi	onai elemen	is and
07	Los Angeles	4	7.7/9.2	In the cities of Los Angeles, Long Beach, Signal	28670	4387	0700020923	201.335	2016/17	35	43,200	PA&ED	0	0
		91	R6.3/R8.4	Hill, Lakewood, Carson, and Hawthorn on various						55	18,720	PS&E	5,000	5,670
				routes at various location. Mitigate for stormwater								RW	700	30
				quality by using Best Management Practices (BMP's).								Const	5,000	5,000
				In the cities of Los Angeles, Long Beach,										
				Signal Hill, Lakewood, Carson and Hawthorn.										
				Mitigate Stormwater quality by using Best										
				Management Practices.										
				d because the constructability of the stormwater BMP										
	ons and the specia ,000 to the cost of		of the stormwa	ater BMP devices on Route 91. In addition, aerially de	eposited lead	d was discov	ered that will req	uire more des	sign and cor	nstruction re	sources. The	se changes r	esult in a ne	t reduction
07	Los Angeles	91	R11.4	In Long Beach, at Butler-Artesia Undercrossing	29170	4500	0712000095	201.112	2016/17	0	1,446	PA&ED	73	73
				Bridge No. 53-2169. Upgrade bridge rails and								PS&E	252	252
				lower on-ramp to increase vertical clearance.								RW	12	12
				Replace barrier and flashing beacons.								Const	295	295

Replace barrier and flashing beacons.

Comments: The barrier scope was reevaluated which resulted in a cost increase. In addition, it was concluded that lowering the ramp profile creates unforeseen hydraulic and utility relocation. The Department is going to initiate another project EA 07-32810 to improve the interchange and address the ramp vertical clearance. The existing programmed amount of the project is sufficient for the increased cost of the concrete barrier, flashing beacon and associated work. These changes are a net zero cost for the project.

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 11 of 18 REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002 Cost, Scope, Schedule and Technical Changes Includes Federal Emergency Relief Funds (\$ Thousands)

				Includes Fe	deral Emerg \$ Thousa	•	Funds							
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
07	Los Angeles	101	\$0.0/1.9	In the city of Los Angeles, from Route 5 to Route 110. Rehabilitate pavement.	30080	4680	0713000489	201.121	2016/17	9 3,087	12,840	PA&ED PS&E RW Const	88 1,346 71 1,503	88 1,726 761 1,503
Comments	Utility conflicts v	were discove	ered at 17 ADA	ramp locations that will require unplanned investigation	on, coordina	tion and relo	cation of utilities.	. These chan	ges add \$4,	157,000 to t	he cost of the	project.		
07	Los Angeles	101	1.8/8.4	In the city of Los Angeles, near Hollywood, from Route 110 to north of Pilgrimage Overcrossing. Pavement rehabilitation.	30790	4774	0714000223	201.121	2016/17	29 37	2,073	PA&ED PS&E RW Const	153 280 20 330	67 941 40 637
Comments	: The project sco	pe was furth	er refined and r	requires ADA upgrades at 13 locations. Additional gr	ound survey	work, utility	relocation and in	spection is re	quired as a	result. This	change adds	\$910,000 to t	he cost of the	ne project.
07	Los Angeles	101	20.0	Near Encino, at Encino Pedestrian Overcrossing. Replace pedestrian overcrossing.	31790	4915	0715000277	201.110	2018/19	110	6,685	PA&ED PS&E RW Const	404 868 133 1,000	470 1,850 133 1,000
				occur while programming the project, resulted in modi			•							
07	Los Angeles	101	30.9/38.1	In and near Calabasas, Agoura Hills and West Lake Village, from Las Virgenes Road to Lindero Canyon Road; also in and near the cities of Camarillo, Oxnard, and Ventura from Pleasant Valley Road to Padre Juan Canyon Road. Upgrade to ADA standards.	29110	4493	0712000068	201.378	2016/17	⊕ 205	1,969	PA&ED PS&E RW Const	200 400 0 400	200 400 241 800
				nd during the PA&ED phase, it was determined that ri				36 locations	pread throu	ghout Los A	Angeles and V	/entura Count	es requiring	additional
- ' '				esign for utilities and electrical work. These changes				T						
07	Los Angeles	110	8.0/9.0	In Carson from south of W Del Amo Boulevard to south of W 190th Street; also in Carson on route 405, from north of E Del Amo Boulevard to south of W 190th Street (PM 12.2/13.2). Through traffic re-configurations. (G13 Contingency Project)	29370	4552	0713000239	201.310	2016/17	1,000	9 32,970	PA&ED PS&E RW Const	0 4,946 180 0	0 4,946 180 6,594
Comments	: Change G13 Co		roject to a fully											
07	Los Angeles	213	2.7/3.9	In Rancho Palos Verdes, from Caddington Drive to Peninsula Verde Drive. Replace two damaged drainage systems. (G13 Contingency Project)	25310	3734	0700000457	201.151	2018/19	260	0	PA&ED PS&E RW Const	30 284 128 0	234 284 128 0
	• •			hich revised the scope and split the project. Upon furing additional environmental involvement, resulting in	•	•	•	oe for this proj	ect required	l additional o	easements, ut	tility relocation	and permit	s to access
07	Los Angeles	405	0.7/6.7	In Long Beach and Signal Hill, from Los Cerritos Channel to Pacific Avenue. Enhance highway worker safety by miscellaneous paving, relocating irrigation, and other measures. priginally planned and there were numerous biologica	29610	4598	0713000035	201.235	2017/18	0 1	2,165	PA&ED PS&E RW Const	81 360 0 378	220 850 5 700

Comments: The project required more filed visits than originally planned and there were numerous biological concerns that required a more complex document for the threatened and endangered species. There was added design/construction scope including relocation of light poles that may impact structures. These changes add \$957,000 to the cost of the project.

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REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002

			_		(\$ Thousa	<u> </u>								
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
07	Los Angeles	405	11.7/12.2	In Carson, from Avalon Boulevard to Main Street. Reconstruct commercial vehicle enforcement facility.	28910	4457	0700021123	201.321	2016/17	10 20	4,872	PA&ED PS&E RW Const	210 1,100 5 600	1,4 1,0
	s: The project requion to the cost of the	•	ng for existing ι	itilities that was not estimated during the PID phase.	Further inve	stigation du	ring the environm	ental phase,	it was identii	fied there wa	as a need for	additional supp	oort. These o	change
07	Los Angeles	405	R21.5/26.3	In and near the Cities of Inglewood, Los Angeles, and Culver City, from 105 to Port Road. Enhance highway worker safety by replacing crash cushions, miscellaneous paving, and other measures.	29630	4593	0713000030	201.235	2017/18	0 1	2,130	PA&ED PS&E RW Const	79 405 0 475	9
	s: The project requaleted. These chan			originally planned and there were numerous biologica st of the project.	I concerns th	nat required	a more complex	document for	the threater	ned and end	langered spec	cies. The supp	ort for DES w	vas
07	Los Angeles	405	28.0/39.0	In the city of Los Angeles, near Westwood and Sherman Oaks, from Venice Boulevard to Route 101. Pavement rehabilitation.	30780	4773	0714000222	201.121	2016/17	25 96	1,687	PA&ED PS&E RW Const	124 312 25 312	1
	s: The project sco dd \$1,299,000 to th			requires ADA upgrades at 13 locations. In addition, s	everal utility	conflicts we	re identified and	will require si	gnificant inv	estigation, c	coordination a	nd relocation o	f utilities. The	ese
07	1 1 A 1													
O1	Los Angeles	605	R17.0/R19.5	In and near Industry, from south of Route 60 to Valley Boulevard. Roadside safety improvements.	30400	4713	0714000056	201.235	2018/19	0	2,513	PA&ED PS&E RW Const	54 324 60 385	
	J									, and the second		PS&E RW Const	324 60 385	(
	J			Valley Boulevard. Roadside safety improvements.						, and the second		PS&E RW Const	324 60 385	1,
Omment:	s: The project invo Ventura	olves 60 loca 33 s needed fo	7.6 7 the environme	Valley Boulevard. Roadside safety improvements. a greater effort than originally planned. In addition, I Near Oak View, at San Antonio Creek Bridge No. 52-0065. Scour mitigation and bridge rail upgrade.	abor costs h 29130 submitted to	ave increase 4496 presource a	ed since the PID 0712000083 gencies to addres	was approved 201.111 ss and mitigat	d. These ch 2016/17 2018/19 e environme	anges add to a second to a sec	\$679,000 to the standard standard to the standard standar	PS&E RW Const ne cost of the p PA&ED PS&E RW Const	324 60 385 roject. 250 1,310 240 900 s for permits.	1,1 1,1 1,0 1,0
Comment: 07	s: The project invo Ventura	olves 60 loca 33 s needed fo	7.6 7 the environme	Valley Boulevard. Roadside safety improvements. a greater effort than originally planned. In addition, I Near Oak View, at San Antonio Creek Bridge No. 52-0065. Scour mitigation and bridge rail upgrade.	abor costs h 29130 submitted to	ave increase 4496 presource a	ed since the PID 0712000083 gencies to addres	was approved 201.111 ss and mitigat	d. These ch 2016/17 2018/19 e environme	anges add to a second to a sec	\$679,000 to the standard standard to the standard standar	PS&E RW Const ne cost of the p PA&ED PS&E RW Const	324 60 385 roject. 250 1,310 240 900 s for permits.	1,
omments omments umber of 07	s: The project involved and the project involv	s needed for increased 101	7.6 7.6 or the environme and are horse p 29.8 ng the PA&ED p	valley Boulevard. Roadside safety improvements. a greater effort than originally planned. In addition, I Near Oak View, at San Antonio Creek Bridge No. 52-0065. Scour mitigation and bridge rail upgrade. ental and right of way phases. Detail plans are being parcels that require additional time and resources for In the city of Ventura, at Ash Street Pedestrian Overcrossing. Upgrade pedestrian overcrossing	abor costs h 29130 submitted to acquisition a 29040	ave increase 4496 resource agand negotiati 4490	ed since the PID 0712000083 gencies to addressions. These char 0712000034	was approved 201.111 ss and mitigatinges result in 201.378	d. These ch 2016/17 2018/19 e environme a two year of 2016/17	anges add s 1,300 ental issues lelay and ad 11 31	\$679,000 to the second	PS&E RW Const ne cost of the p PS&E RW Const ire consultation to cost the pro PA&ED PS&E RW Const re consultation to cost the pro PA&ED PS&E RW Const	324 60 385 roject. 250 1,310 240 900 s for permits. oject. 102 195 15 170	1, 1, The

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REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002

				Cost, Scope, S		d Technical (Changes							
				Includes Fe	ederal Emerg (\$ Thousa		Funds							
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
07	Ventura	126	0.0/R13.6	In and near the cities of Ventura and Santa Paula, from Route 101 to Haun Creek Bridge. Rehabilitate pavement.	30220	4685	0713000481	201.121	2016/17	10 170	12,800	PA&ED PS&E RW Const	120 940 40 1,400	120 1,040 50 1,700
Comments the cost of t		ata sheet wa	is not prepared	for the PID. Extensive surveys and potholing are no	w needed fo	r the project	to identify utilitie	s that were no	ot accounted	l for during t	he PID phase	e. These chan	ges add \$580),000 to
07	Ventura	126		In and near Fillmore, from Haun Creek Bridge to Los Angeles County line. Pavement rehabilitation.	30140	4703	0714000021	201.121	2016/17	65 360	20,445	PA&ED PS&E RW Const	220 440 30 2,400	220 1,450 130 2,700
	: The project sco These changes ac			equires extensive ground survey work to design the the project.	ADA improve	ements. In a	ddition, several	utility conflicts	were identi	fied and will	require inves	tigation, coord	lination and re	elocation
08	Riverside	10		In Riverside and San Bernardino Counties, on Routes 10, 111, and 215 at various locations. Rehabilitate 9 structures.	0Q890	0010C	0800020582	201.119	2016/17	20 55	1,802 1,906	PA&ED PS&E RW Const	210 652 11 4 52	210 652 40 600
were neede		rironmental p	ermits and agr	ealized that the extent of railroad involvement for one eements. Construction support and capital cost incre										
80	Riverside	74		In and near Palm Desert, from west of Strawberry Creek Bridge to west of Cahuilla Hills Road. Install metal beam guardrail.	0R780	0050L	0812000165	201.015	2016/17	10 117	4,976	PA&ED PS&E RW Const	800 705 80 1,250	800 705 80 1,250
	: Right of Way ca	-	e is needed for	a contribution to the Coachella Valley Multiple Speci	ies Habitat C	onservation	Plan (CVMSHVI) as identified	d by environ	mental durir	ng the PA&ED	phase. Thes	e changes ac	ld
08	Riverside	111	0.0/10.5	At Salton Sea, from the Riverside/Imperial County line to east of Cleveland Street. Sediment stabilization and erosion control.	1C620	0098F	0812000337	201.335	2016/17	20	1,442	PA&ED PS&E RW Const	223 200 20 285	223 426 20 285
Comments	: PS&E support of	ost increase	is needed for s	survey support to obtain information on right of way a	lignment, exi	isting utility a	nd drainage faci	lities. These	changes ad	d \$226,000 t	to the cost of	the project.	_	
08	Riverside	VAR		Between Banning and Blythe on Routes 10 and 111, at Bridges No. 56-0003, 56-0241R, and 56-0596. Seismic retrofit.	0R350	0107F	0812000071	201.113	2016/17	20	4,433 5,031	PA&ED PS&E RW Const	456 1,008 21 943	456 1,467 21 1,112
				r additional bridge seismic restoration and bridge rail nese changes add \$1,226,000 to the cost of the proje		t design at tv	vo locations. Co	nstruction sup	port and ca	pital increas	e to enable ir	nspection in th	ree remote lo	cations
08	San Bernardino			In and near Big Bear Lake, from Route 38 to Gildart Drive. Sediment stabilization and erosion control. In and near Big Bear Lake, from Route 38 to Gildart Drive. Sediment stabilization and erosion control.	1C560	0186F	0812000331	201.335	2016/17	202	3,686 3,186	PA&ED PS&E RW Const	472 590 59 845	911 590 59 845

determined from an updated cost estimate. These changes result in a net reduction of \$61,000 to the cost of the project.

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REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002

				2016 SF Cost, Scope, S	HOPP Ameno Schodulo an									
					ederal Emerg									
				moddd i c	\$ Thousa		i unus							
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
08	San Bernardino	18	99.4/100.9	In Victorville, from Cobalt Road to Route 395.	0Q120	0191J	0800020125	201.010	2017/18	30	9,101	PA&ED	1,123	1,123
				Construct raised curb median.						1,653	,,,,,,,	PS&E	1,297	1,297
										,		RW	164	893
												Const	1,212	1,212
Comments	: The Department	t identified a	dditional right o	of way impacts that will occur in order to construct the	curb raised	median. Th	ese impacts inclu	ıde acquisitio	n, utility inve	stigation an	d relocation a	nd condemna	tion. These	impacts
	,000 to the cost of		· ·				•	·	,	Ü				•
08	San Bernardino	38	50.4/59.4	At Big Bear Dam, from Eagle Mountain Drive to	0R430	0206U	0812000075	201.335	2016/17	39	2,195	PA&ED	325	741
			VAR	Route 18. Sediment control and stabilization.								PS&E	220	220
				At various locations, from Eagle Mountain								RW	5	5
				Drive to Route 38/18 Separation. Sediment								Const	480	480
				control and stabilization.										
Comments	: PA&ED support	cost increas	se is needed fo	r survey and geotechnical investigation to determine	right of way	alignment, e	xisting utilities an	ıd drainage fa	cilities and t	o identify sa	and trap locati	ons. The rede	fined scope	will limit
the location	s to within US For	est Service		I the State's commitment to stormwater compliance.		ges add \$41		of the project						
08	San Bernardino	330	39.6/39.7	Near Running Springs, between Route 210 and	1F830	3001A	0815000055	201.131	2016/17	10	2,345	PA&ED	400	700
				Route 18. Replace culverts.					2017/18			PS&E	300	300
												RW	25	25
												Const	345	345
				ds to be redesigned which changes the project footpr	rint. This cha	ange delays	the environmenta	al studies and	will require	a programn	ning delay froi	m FY 16/17 to	FY 17/18 as	well as a
				0,000 to the cost of the project.			_							
10	Merced	99	R35.9/R37.3	In Merced and Stanislaus Counties near Turlock,	1C180	3091	1014000101	201.122	2016/17	10	0	PA&ED	281	281
				from north of Bradbury Road to north of the							14,250	PS&E	954	954
				Stanislaus County line. Rehabilitate pavement.								RW	4	4
				(G13 Contingency Project)								Const	θ	2,100
Comments	: Change G13 Co	ntingency p												
10	San Joaquin	12		In Lodi, from Westgate Drive to Route 99 from	0Y550	3079	1013000239	201.361	2016/17	451	672	PA&ED	225	225
			17.1/17.7	South School Street to South Central Street.						37	539	PS&E	150	150
				Upgrade pedestrian curb ramps to ADA standards.								RW	100	245
												Const	250	307
Comments	: The project limit	s have beer	n revised to kee	p the project within the programmed Construction ca	pital amount	and to addre	ess ADA grievan	ce locations.	A future pro	ject will be p	programmed t	o capture the	remaining lo	cations.
		rt costs hav	e increased du	e to a resource review that determined the current pr	ogrammed a	mount is not	enough to provid	de adequate d	construction	oversight.	These change	es result in a re	eduction of \$	345,000
to the cost of	of the project.													
10	San Joaquin	99	0.0/6.8	In Stanislaus and San Joaquin Counties, from	1C300	5002	1014000145	201.310	2016/17	800	0	PA&ED	2,061	2,061
				south of Pelandale Avenue to north of Yosemite							29,424	PS&E	2,650	2,650
				Avenue/Route 120 East Junction. Lengthen								RW	122	122
				existing lane transitions and construct auxiliary								Const	θ	3,825
				lanes. (G13 Contingency Project)										
Comments	: Change G13 Co	ntingency p	roject to a fully	funded project.						<u>-</u>				
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Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 15 of 18

REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002 Cost. Scope. Schedule and Technical Changes

D: 1	1 0 1	l	I D (142)	T	(\$ Thousa	<u> </u>	T FFIO		E)/	DW	1 0 1		2 1	
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	00
10	Stanislaus	5	27.0/27.5	Near Westley, at the Westley Safety Roadside	0W630	3009	1012000021	201.235	2016/17	0	2,387	PA&ED	124	26
				Rest Area (SRRA). Upgrade water and					2018/19	5	4,001	PS&E	592 Ը	90
				wastewater systems.								RW	~	
												Const	728	80
				that the proposed water and wastewater system can										
				ntification potholing increases Right of Way support a										
			is scheduled to	deliver in 2019; delay of this project will allow delive	ry on the sar	ne schedule	so that projects of	can be combi	ned to reduc	e the time t	his facility is c	losed. These	hanges add	
	to the cost of the	project.												
11	San Diego	5	R0.3/5.4	In the city of San Diego, at various locations from	41090	1104	1112000138	201.235	2016/17	60	3,101	PA&ED	399	39
				Camino De La Plaza to Main Street. Improve-								PS&E	733	1,01
				maintenance worker safety by constructing								RW	68	2
				Maintenance Vehicle Pullouts (MVP), paving								Const	1,226	98
				miscellaneous areas and repairing damaged										
				systems that require frequent maint.										
				In San Diego and Chula Vista, at various										
				locations from Camino De La Plaza										
				Overcrossing to Main Street Overcrossing.										
				Construct pullouts and pave beyond gore										
				areas to improve safety for maintenance										
				personnel.										
Commonts	· During the Desi	ian Phase ar	l Saerially denos	ited lead study and an additional hydraulic design wa	s determine	d to be need	<u>l</u> ed Unon further	refinement i	l was also d	etermined t	l lat right of wa	v acquisition is	not required	and the
				re a net zero cost for the project.	is determine	a to be need	ca. Opon familier	Temperation, i	t was also u	Cicilinica ii	iat right of wa	iy acquisition is	not required	and the
11	San Diego	8	R0.1/R2.0	In the city of San Diego, from west of Morena-	41480	1068	1112000193	201.010	2016/17	73	8,142	PA&ED	960	90
1.1	San Diego	0		Boulevard to east of Hotel Circle North	41400	1000	1112000193	201.010	2010/17	173		PS&E	1,323	89
			R0.1/2.0							1/3	13,077	RW	1,323 204	2,40
				interchange ramps. Enhance striping and signage in westbound direction.									204 2,063	30
												Const	2,003	2,94
				In the city of San Diego, from 0.2 mile west of										
				Morena Boulevard to 0.1 mile east of Hotel										
				Circle North interchange ramps. Restripe										
				westbound I-8, add an additional westbound										
				lane and improve signage.										
				posited lead were discovered. Furthermore, high frie	ction surface	treatment, r	emoval and repla	cement of a	truss sign st	ucture, add	itional gradino	g/retaining wall	and	
olanting/irri	gation are also ne	eded for the	project. These	changes add \$7,026,000 to the cost of the project.										
11	San Diego	8	9.0/15.3	In the cities of San Diego, La Mesa, and El Cajon,	40870	1062	1112000017	201.121	2016/17	4	17,423	PA&ED	636	63
				from west of Lake Murray Boulevard to Johnson						90		PS&E	1,142	1,71
		1		Avenue. Pavement rehabilitation.			[RW	7	5

evaluation revealed additional dig-outs are now required. The scope reduction is being made to account for work that was being done by other projects. The scope reduction savings are being used to offset additional cost. These changes add \$707,000 to the cost of the project.

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 16 of 18 REPLACEMENT ITEM

Contents. The Department is continuing to coordinate with littled States Forced Service (USFS) in finalizing west-search system project scope to obtain USFS approved for permit amountment to rehabilistate between the final systems of the content						HOPP Amend									
ST Trucks analys ST T					•			•							
Dist County Route Post Miles Description/Location EA PPNU EFIS Prog Code FY RW Contal Support					Includes Fe	•	•	Funds							
11 Sun Diego 8 49.0 Nour Pine Valley, at Buchman Springs Safety Rods 40910 1085 1112000043 201235 201617 0 3.275 PAAED 608						(\$ Thousa	ınds)								
11	Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
Sewer and water systems. Comments: The Department is continuing to coordinate with United States Forest Service (USFS) on linatizing wastewater system project scope to obtain USFS approval for permit ammendment for rehabilisation that States Forest Service (USFS) on linatizing wastewater system project scope to obtain USFS approval for permit ammendment for rehabilisation that States Forest Service (USFS) on linatizing wastewater system project scope to obtain USFS approval for permit ammendment for rehabilisation that States Forest Service (USFS) on Intelligence of the project. 11 San Diego 79 31.3499. In San D	11	San Diego	8	49.0	Near Pine Valley, at Buckman Springs Safety	40910	1085	1112000043	201.235	2016/17	θ	3,275	PA&ED	698	698
Comments: The Department is continuing to coordinate with United States Forest Service (USFS) on finalizing wastewater system project scope to obtain USFS approval for permit sent-united the Safety Rosadsker Rest Area (SRRA). However, due to the uncertainty in obtaining approval in a timely manner, a programming year change from FY 16/7 to FY 17/16 is necessary. A Right of Way support decrease and Right of Way capital increase is needed to reinhulse the USFS for their design plan review and for permit fees to the Regional Warder Country Country (2, 1977). The Project of					Roadside Rest Area (SRRA). Rehabilitate SRRA					2017/18	20				1,251
Comments: The Department is continuing to poordinate with United States Fores Service (USFS) on finalizing wastewater system project scope to obtain USFS approval for permit amendment to rehabilitate the Safety Roadside Rest Area (SRRA). However, due to the uncertainty in Onlaining approval in a timely manner, a programming year change from Type 17718 is necessary. A Right of Way support docrease and Right of Way capital increase is needed to relimburse the USFS for their design plant netwer and for permit fees to the Regional Water Quality Control Board (RWOCB) for water lesting. These changes are a net zero cost for the project. 11 San Diego 79 31.349.9 Near-Waters Springs and Oak, Foreway, et valorius. 41430 1123 1114000024 201.112 2016/17 2 2,187 PASED 333 330 892 localisons from Burner Visite Greek Bridge No. 67-0044)— In San Diego County, at various locations from Burner Visite Greek Bridge No. 67-0044— In San Diego County, at various locations from Burner Visite Greek Bridge Fore No. 67-0044— In San Diego County, at various locations from Burner Visite Greek Bridge Fore No. 67-0044— In San Diego County, at various locations from Burner Visite Greek Bridge Fore No. 67-0044— In San Diego County, at various locations from Burner Visite Greek Bridge Fore No. 67-0044— In San Diego County, at various locations Repair was support costs due to warrial deposited lead study, design change from Type 736 barrier to Type ST-10 barrier at two of the bridges. However, there is a decrease in Right of Way capital and support because environmental permits are no longer required. These changes and ST2100 to the cost of the project. 11 San Diego 48 In various cities, on various rolles at various locations Repair work at three locations will be addressed on other projects. The downstize in soope result in a net reduction of \$36,000 to the cost of the project. 11 San Diego VAR In and construction capital cost in the project. In an earth medical county of the project of the project of the project. 11 San Diego VAR In an an					sewer and water systems.										0
Area (SRRA). However, due to the uncertainty in obtaining approval in a timely manner, a programming year change from FY 161/1 to FY 171/6 is necessary. A Right of Way support decrease and Right of Way capital increase is needed to reimburstee. We Use's for their design plan review and for permit flees to the Regional Water Quality Control Board (RWQCQ). 111 San Diego 79 31.349.9 Near-Warner Springe and Oak Grove, at various locations from Buena Nista Creek Bridge No. 57-0063 to Chihuahua Creek Bridge No. 57-00614. Upgrade bridge rails. In San Diego County, at various locations from Buena Nista Creek Bridge rails. In San Diego County, at various locations from Buena Nista Creek Bridge rails. In San Diego County, at various locations from Buena Nista Creek Bridge rails in San Diego County, at various locations from Buena Nista Creek Bridge rails in San Diego County, at various locations from Buena Nista Creek Bridge rails in San Diego County, at various locations from Buena Nista Creek Bridge rails in San Diego County, at various locations from Buena Nista Creek Bridge rails in San Diego County, at various locations from Buena Nista Creek Bridge rails in San Diego County, at various locations from Buena Nista Creek Bridge rails in San Diego County, at various locations from Buena Nista Creek Bridge rails in San Diego County, at various locations from Buena Nista Creek Bridge rails in San Diego County, at various locations from Buena Nista Creek Bridge rails in San Diego County, at various locations from Buena Nista Creek Bridge Rail Rail Rail Rail Rail Rail Rail Rail													Const	1,034	1,034
In reimburse the USFS for their design plan review and for permit fees to the Regional Water Quality Control Board (RWQCB) for water testing. These changes are a net zero cost for the project. 11 San Diego 79 31.3/49.9 Near-Warner-Springe-and Oxforeve atvandous colorations from Buena-West-Creek Bridge No. 57- logical to Chilabahus Creek Bridge No. 57- logical to Chilabahus Creek Bridge No. 57- logical to Chilabahus Creek Bridge (No. 67-0014) Upgrade-bridge raile: In San Diego County, at various locations from Buena Vista Creek Bridge (No. 67-0014) Upgrade-bridge raile: In San Diego County, at various locations from Buena Vista Creek Bridge (No. 67-0014) Upgrade-bridge raile: In San Diego County, at various locations from Buena Vista Creek Bridge (No. 67-0014) Upgrade-bridge raile: In San Diego County, at various locations from Buena Vista Creek Bridge (No. 67-0014) Upgrade-bridge No. 57- logical to Chilabahus Creek Bridge (No. 67-0014) Upgrade-bridge raile: In San Diego County, at various locations from Buena Vista Creek Bridge (No. 67-0014) VAR In Various cities on various routes at various locations (No. 67-0014) VAR In Various cities on various routes at various locations (No. 67-0014) VAR In Various cities on various routes at various locations (No. 67-0014) VAR In Various cities on various routes at various locations (No. 67-0014) VAR In Natious cities on various routes at various locations (No. 67-0014) VAR In Natious cities on various routes at various locations (No. 67-0014) VAR In Natious cities on various routes at various locations (No. 67-0014) VAR In Natious cities on various routes at various locations (No. 67-0014) VAR In Natious cities on various routes at various locations. Upgrade curb VAR In Natious cities on various locations, therefore the estimated number of working days has increased. This change adds \$558.000 to the cost of the project. 11 San Diego VAR In Natious cities, at various locations, Upgrade curb VAR In Natious cities, at various locations, Upgrade various locations. Upgrad															
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Upgrade-bridge-railes In San Diego Dounty, at various locations from Buena Vista Craek Bridge to Chihuahua Creek Bridge railing on five bridges.											0	2,587		1,061	1,326
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existing guide signs to current standards.	right of way	impacts and a de	crease in the	e level of consti	ruction complexity. These changes add \$505,000 to	the cost of th	ne project.								
RW 5 0 Const 1,486 986	11	San Diego	VAR			41911	1130	1114000126	201.170	2016/17	0	10,593			
Const 1,486 986					existing guide signs to current standards.									1,224	1,224
													RW	5	0
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	Commonte	D: 14 C)M	od Construct	on support have	ve decreased due to no right of way impacts and a de	crease in the	e level of cor	nstruction comple	vity These	hanges res	ult in a net r	eduction of \$1	505 000 to the	coat of the r	project

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2 Page 17 of 18 REPLACEMENT ITEM

2016 SHOPP Amendment 16H-002 Cost, Scope, Schedule and Technical Changes Includes Federal Emergency Relief Funds (\$ Thousands)

				moludes i c	(\$ Thousa	ands)								
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
12	Orange	22	R3.9/R10.8	In the cities of Garden Grove, Orange and Santa Ana, from Route 39 (Beach Boulevard) to Route 5. Modify ramps and add auxiliary lane.	0M900	2941	1213000017	201.010	2017/18	20	10,522	PA&ED PS&E RW Const	950 2,000 200 2,100	1,64 ° 2,000 200 2,100
Comments project.	: The project req	uired aerial t	opographic ma _l	pping and additional environmental and traffic studies	s are require	d to complet	e preliminary des	sign and the e	nvironment	al document	These char	nges add \$691	,000 to the c	ost of the
12	Orange	39	1.8	In the city of Huntington Beach, at Utica Avenue. Intersection improvement.	0N990	3104	1215000017	201.010	2017/18	4 5 56	580 569	PA&ED PS&E RW Const	117 293 94 293	117 330 210 293
				n, increasing Right of Way capital and support costs,		n increase to	design to suppo	ort the conden	nnation prod	cess. An upo	dated Constri	uction capital e	stimate will	decrease
	he right of way co			. These changes add \$153,000 to the cost of the pro	•									
12	Orange	39	12.4/17.2	In Anaheim and Buena Park, at Lincoln Avenue (PM 12.4/12.9); at Route 91 (PM 14.3/14.5) and from Route 5 to Rosecrans Avenue (PM 15.1/17.4). Roadway rehabilitation. (G13-Contingency Project)	0J400	3174	1200020177	201.121	2016/17	72	9 7,322	PA&ED PS&E RW Const	0 4,310 270 0	0 4,310 270 1,472
Comments	Change G13 C	ontingency p	roject to a fully	funded project.		•	•	•				•	•	
12	Orange	57	10.7/16.6	In the cities of Orange, Anaheim and Placentia, from Route 5 to north of Orangethorpe Avenue. Upgrade Transportation Management System.	00900	2530J	1215000007	201.315	2019/20	θ	2,020	PA&ED PS&E RW Const	150 400 50 380	150 400 50 380
Comments	Combine Project	ct EA 04-0P4	120, EA 04-0P4	10 and EA 04-0N900 into Project EA 04-0P42U.		ļ	•	<u> </u>				•		
12	Orange	91	R2.6/7.2	In the cities of Buena Park, Anaheim and Fullerton, from Route 39 (Beach Boulevard) to North-Kraemer Boulevard. Upgrade Transportation-Management System.	0P410	4 532	1215000099	201.315	2019/20	0	3,200	PA&ED PS&E RW Const	180 590 50 580	180 590 50 580
Comments	: Combine Project	ct EA 04-0P4	120, EA 04-0P4	10 and EA 04-0N900 into Project EA 04-0P42U.								•	•	
12	Orange	142	R0.8/2.9	In and near Brea, from Route 90 to east of Brea Hills Avenue. Pavement rehabilitation.	0N600	5364	1214000066	201.121	2016/17	6,826 1,005	5,750	PA&ED PS&E RW Const	0 2,040 500 2,490	0 2,040 780 2,490

Comments: The right of way capital scope was reduced, in order to coordinate with the local agency in transferring property rights; this will reduce the amount of right of way required. This change results in a net reduction of \$5,541,000 to the cost of the project.

TAB 66

Reference No.: 2.1a.(2a) June 29-30, 2016 Attachment 2

Page 18 of 18 **REPLACEMENT ITEM**

2016 SHOPP Amendment 16H-002 Cost, Scope, Schedule and Technical Changes Includes Federal Emergency Relief Funds (\$ Thousands)

					(ψ 1110036	arido)								
Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const		Support	
12	Orange	5	33.0/43.2	In the cities of Orange, Anaheim, Santa Ana,	0P420	2859B	1215000098	201.315	2019/20	0	3,600	PA&ED	170	1,323
		VAR	VAR	Fullerton and Buena Park, from Main Street to	0P42U		1215000097				8,820	PS&E	770	2,030
				Stanton Avenue. Install and modify Intelligent								RW	80	180
				Transportation System elements.								Const	480	2,030
				In the cities of Orange, Anaheim, Santa Ana,										•
				Fullerton and Buena Park, from PM 33.0 to PM										
				43.2, also on Route 57, from PM 10.7 to PM										
				16.6, also on Route 91, from PM R2.6 to PM										
				R4.1 and PM 0.0 to PM 7.2. Install and modify										
				Intelligent Transportation System (ITS)										
				elements.										

Comments: There are cost increases to PA&ED, PS&E and Construction support due to procuring an A&E contract, developing a charter and a complex concept of operations (ConOps) and completing a MOU with local agencies. These changes add \$1,683,000 to the cost of the project.

Combine Project EA 12-0P420, EA 12-0P410 and EA 12-0N900 into Project EA 04-0P42U.