

Memorandum

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: March 26, 2015

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

From: NORMA ORTEGA
Chief Financial Officer

Prepared by: Steven Keck, Chief
Division of
Budgets

Subject: **FINANCIAL ALLOCATION FOR SHOPP PROJECTS**
RESOLUTION FP-14-37

RECOMMENDATION:

The California Department of Transportation (Department) recommends the California Transportation Commission allocate \$77,757,000 for 23 projects programmed in the 2014 State Highway Operation and Protection Program (SHOPP) and \$50,472,000 for 27 additional projects amended into the SHOPP by Department action.

ISSUE:

The attached vote list describes 50 SHOPP projects totaling \$128,229,000. The Department is ready to proceed with these projects and is requesting an allocation at this time.

FINANCIAL RESOLUTION:

Resolved, that \$128,229,000 be allocated from the Budget Act of 2013, Budget Act Items 2660-302-0042 and 2660-302-0890, for 50 SHOPP projects described on the attached vote list.

The Department has complied with the National Environmental Policy Act and the California Environmental Quality Act requirements in preparing these projects.

Attachment

2.5 Highway Financial Matters

Project # Allocation Amount County Dist-Co-Rte Postmile	Location Project Description	PPNO Program/Year Prgm'd Amount Project ID Adv Phase EA	Budget Year Item # Fund Type Program Code	Amount by Fund Type
2.5b.(1) SHOPP Projects				
Resolution FP-14-37				
5 \$2,756,000 Sacramento 03-Sac-5 Var.	In and near Sacramento, on Routes 5, 50, 51 and 99 at various locations. <u>Outcome/Output:</u> Pave narrow areas and ramp gore areas, construct concrete slope paving, and place mulch materials to control vegetation at 116 locations. Work reduces worker exposure to traffic and improves the safety of maintenance personnel.	03-5834 SHOPP/14-15 \$2,775,000 0312000097 4 3F1704	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.235	\$55,000 \$2,701,000
	Preliminary <u>Engineering</u> <u>Programmed</u> <u>Expended</u> PA&ED \$70,000 \$75,019 PS&E \$225,000 \$206,099 R/W Sup \$18,000 \$ 11,980			
	(Construction Support: \$500,000)			
6 \$6,285,000 Sacramento 03-Sac-51 0.2/1.1	In the city of Sacramento, at Fort Sutter Viaduct (Bridge No. 24-0188R). <u>Outcome/Output:</u> Remove asphalt surfaces, repair unsound concrete, replace joint seals, and place polyester concrete overlay to extend the bridge service life.	03-6403 SHOPP/14-15 \$8,078,000 0312000055 4 3F0804	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.119	\$126,000 \$6,159,000
	Preliminary <u>Engineering</u> <u>Programmed</u> <u>Expended</u> PA&ED \$163,000 \$92,539 PS&E \$373,000 \$229,446 R/W Sup \$5,000 \$ 0			
	(Construction Support: \$728,000)			
7 \$890,000 Alameda 04-Ala-680 R20.0/R20.3	In Pleasanton and Dublin, at the 580/680 Interchange. <u>Outcome/Output:</u> Replace metal beam guardrail with concrete barrier to improve safety by reducing collision severity and maintenance worker exposure.	04-0272K SHOPP/14-15 \$1,065,000 0400020752 4 2G4104	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.015	\$18,000 \$872,000
	Preliminary <u>Engineering</u> <u>Programmed</u> <u>Expended</u> PA&ED \$75,000 \$0 PS&E \$117,000 \$107,355 R/W Sup \$32,000 \$0			
	(Construction Support: \$149,000)			
8 \$2,515,000 Marin 04-Mrn-1 10.9	Near Stinson Beach, 0.2 mile north of Dipsea Trail. <u>Outcome/Output:</u> Construct retaining wall, drainage systems and reconstruct roadway to repair storm damage land-slide.	04-0313E SHOPP/14-15 \$2,200,000 0400001217 4 4S2204	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.131	\$50,000 \$2,465,000
	Preliminary <u>Engineering</u> <u>Programmed</u> <u>Expended</u> PA&ED \$440,000 \$454,541 PS&E \$2,300,000 \$1,835,647 R/W Sup \$100,000 \$71,470			
	(Construction Support: \$650,000)			

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2.5b.(1) SHOPP Projects				
Resolution FP-14-37				
9 \$1,259,000 San Mateo 04-SM-92 5.4/6.2	Near the city of San Mateo, at various locations from Skyline Boulevard to Skyline Quarry Road; also in Solano County, in Benicia on Route 780 at various locations, from 0.2 mile south of East 5 th Street to 0.4 mile north of East 2 nd Street. <u>Outcome/Output:</u> Install new guardrail along steep embankment locations to reduce the severity of collisions.	04-0730G SHOPP/14-15 \$1,262,000 0400020617 4 1G8504	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.015	\$25,000 \$1,234,000
	Preliminary <u>Engineering</u> <u>Programmed</u> <u>Expended</u> PA&ED \$121,000 \$311,571 PS&E \$242,000 \$775,414 R/W Sup \$121,000 \$4,852			
	(Construction Support: \$363,000)			
10 \$3,538,000 San Mateo 04-SM-280 R0.3/R27.1	In various cities at various locations, from the San Francisco Creek Bridge to Route 1; also in Foster City, on Route 92 at PM R14.4. <u>Outcome/Output:</u> Upgrade metal beam guard rail connections to standard to reduce the severity of collisions.	04-0730B SHOPP/14-15 \$3,300,000 0400020615 4 1G8304	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.015	\$71,000 \$3,467,000
	Preliminary <u>Engineering</u> <u>Programmed</u> <u>Expended</u> PA&ED \$297,000 \$377,973 PS&E \$745,000 \$601,973 R/W Sup \$90,000 \$0			
	(Construction Support: \$620,000)			
11 \$412,000 San Mateo 04-SM-280 R25.5	In Daly City, at the Sullivan Avenue onramp. <u>Outcome/Output:</u> Restore side slopes, place rock slope protection, and reconstruct drainage systems to repair two storm damage wash-out locations.	04-0733H SHOPP/14-15 \$760,000 0412000621 4 4G6304	2013-14 302-0042 SHA 20.20.201.131	\$412,000
	Preliminary <u>Engineering</u> <u>Programmed</u> <u>Expended</u> PA&ED \$352,000 \$204,478 PS&E \$235,000 \$223,994 R/W Sup \$35,000 \$0			
	(Construction Support: \$231,000)			
12 \$2,490,000 Santa Barbara 05-SB-101 13.2/27.1	In and near the cities of Santa Barbara and Goleta, from Salsipuedes Street to 0.3 mile north of Cathedral Oaks Road. <u>Outcome/Output:</u> Pave miscellaneous roadside areas, construct access gates and weed barriers, and relocate facilities at 75 locations. Work reduces worker exposure to traffic and improves the safety of maintenance personnel.	05-2256 SHOPP/14-15 \$2,429,000 0500020289 4 0S2504	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.235	\$50,000 \$2,440,000
	Preliminary <u>Engineering</u> <u>Programmed</u> <u>Expended</u> PA&ED \$250,000 \$125,195 PS&E \$500,000 \$541,022 R/W Sup \$6,000 \$0			
	(Construction Support: \$800,000)			

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Project # Allocation Amount County Dist-Co-Rte Postmile	Location Project Description	PPNO Program/Year Prgm'd Amount Project ID Adv Phase EA	Budget Year Item # Fund Type Program Code	Amount by Fund Type
2.5b.(1) SHOPP Projects				
Resolution FP-14-37				
17 \$6,245,000 Amador 10-Ama-88 R54.7/R60.8	Near Silver Lake, from east of Peddler Hill Road to west of Tragedy Springs Road. <u>Outcome/Output:</u> Rehabilitate 14.2 lane miles of pavement by digging out and repairing localized areas of failures, apply hot mix asphalt overlay, replace dikes, and repair drainage to extend pavement service life and to improve ride quality.	10-0303 SHOPP/14-15 \$6,810,000 1012000017 4 0W5904	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.121	\$125,000 \$6,120,000
	Preliminary Engineering Programmed Expended PA&ED \$70,000 \$0 PS&E \$560,000 \$343,322 R/W Sup \$2,000 \$0 (Construction Support: \$424,000)			
18 \$4,992,000 San Joaquin 10-SJ-4 0.0/R8.3	Near Holt, from the Contra Costa County line to east of Bacon Island Road/Trapper Road. <u>Outcome/Output:</u> Rehabilitate 16.6 lane miles of pavement by repairing localized areas of failures, pave rubberized asphalt pavement on roadway, construct rumble strip and replace roadway signs to extend pavement service life.	10-7012 SHOPP/14-15 \$6,300,000 1013000253 4 3A7504	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.121	\$100,000 \$4,892,000
	Preliminary Engineering Programmed Expended PA&ED \$150,000 \$56,289 PS&E \$400,000 \$0 R/W Sup \$50,000 \$0 (Construction Support: \$800,000)			
19 \$3,654,000 Stanislaus 10-Sta-120 0.0/4.1	Near Oakdale, from the Stanislaus County line to west of the Stanislaus River Bridge. <u>Outcome/Output:</u> Rehabilitate 8.6 lane miles of pavement by repairing localized failures, pave roadway with rubberized asphalt, construct rumble strip, replace existing dikes, upgrade ADA curb ramps and push buttons at pedestrian crossings, install traffic count loops and perform minor drainage work.	10-9649 SHOPP/14-15 \$3,948,000 1013000051 4 0K1404	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.121	\$73,000 \$3,581,000
	Preliminary Engineering Programmed Expended PA&ED \$116,000 \$109,581 PS&E \$384,000 \$0 R/W Sup \$2,000 \$0 (Construction Support: \$374,000)			
20 \$332,000 Tuolumne 10-Tuo-108 L5724	In Sonora, at the Old Sonora Maintenance Station. <u>Outcome/Output:</u> Clean up soil and groundwater at the maintenance station to remediate petroleum hydrocarbon impacted soil and ground water beneath the site.	10-0155 SHOPP/14-15 \$367,000 1000000191 4 0P6704	2013-14 302-0042 SHA 20.20.201.330	\$332,000
	Preliminary Engineering Programmed Expended PA&ED \$87,000 \$101,233 PS&E \$199,000 \$254,635 R/W Sup \$1,000 \$0 (Construction Support: \$72,000)			

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2.5b.(1) SHOPP Projects				
Resolution FP-14-37				
21 \$1,046,000 San Diego 11-SD-5 R31.7	In the city of San Diego, at 0.1 mile south of Carmel Mountain Road. <u>Outcome/Output:</u> Storm water mitigation treating 1 acre. Project stabilizes slope. Also drainage conveyance system within the work limits will be cleaned and flushed.	11-0909 SHOPP/14-15 \$1,303,000 1100000313 4 282304	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.335	\$21,000 \$1,025,000
	Preliminary Engineering Programmed Expended PA&ED \$241,000 \$166,863 PS&E \$337,000 \$319,701 R/W Sup \$31,000 \$0 (Construction Support: \$339,000)			
22 \$19,110,000 San Diego 11-SD-75 R21.0/R21.6	In the city of San Diego, from 0.9 mile north to 1.5 miles north of Glorietta Boulevard. <u>Outcome/Output:</u> Clean and paint steel surfaces on the San Diego – Coronado Bay Bridge to restore and prevent further deterioration. Build traveler systems to conduct fracture critical inspections safely and more efficiently.	11-1059 SHOPP/14-15 \$20,031,000 1112000070 4 409304	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.110	\$382,000 \$18,728,000
	Preliminary Engineering Programmed Expended PA&ED \$368,000 \$140,789 PS&E \$691,000 \$1,295,592 R/W Sup \$2,000 \$0 (Construction Support: \$3,354,000)			
23 \$1,200,000 Orange 12-Ora-55 9.6/12.0	In Tustin and Santa Ana, from McFadden to 17 th Street; also on Route 5 from Newport Avenue to 4 th Street (PM 29.6/31.1). <u>Outcome/Output:</u> Construct maintenance vehicle pullouts, pave miscellaneous areas, build maintenance stairways, and repair existing rock blanket to improve the safety of maintenance personnel.	12-3449 SHOPP/14-15 \$1,200,000 1212000063 4 0H8904	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.235	\$10,000 \$1,190,000
	Preliminary Engineering Programmed Expended PA&ED \$80,000 \$69,439 PS&E \$150,000 \$114,981 R/W Sup \$0 \$15 (Construction Support: \$130,000)			

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Project # Allocation Amount County Dist-Co-Rte Postmile	Location Project Description	PPNO Program/Year Prgm'd Amount Project ID Adv Phase EA	Budget Year Item # Fund Type Program Code	Amount by Fund Type
2.5b.(1) Projects Amended into the SHOPP by Department Action				Resolution FP-14-37
24 \$825,000 Humboldt 01-Hum-Var. Var.	In Humboldt, Del Norte, Mendocino and Lake Counties, at various maintenance stations and safety roadside rest areas. <u>Outcome/Output</u> : Replace inefficient plumbing fixtures at 15 maintenance stations and leaking storage tanks at 3 safety roadside rest areas to improve water conservation and drought tolerance.	01-7014 SHOPP/14-15 \$825,000 0114000098 4 0E5404	2013-14 302-0042 SHA 20.20.201.131	\$825,000
	Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$0 \$0 R/W Sup \$0 \$0			
	(Construction Support: \$50,000)			
25 \$539,000 Lassen 02-Las-395 49.6	Near Janesville, at the Honey Lake Safety Roadside Rest Area. <u>Outcome/Output</u> : Drill replacement well and install pump, filter, plumbing and electrical service to improve water conservation and drought tolerance.	02-3593 SHOPP/14-15 \$539,000 0215000058 4 0H7104	2013-14 302-0042 SHA 20.20.201.131	\$539,000
	Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$80,000 \$0 R/W Sup \$3,000 \$0			
	(Construction Support: \$300,000)			
26 \$3,300,000 Shasta 02-Sha-Var. Var.	In Shasta, Butte, Lassen and Plumas Counties at various locations. <u>Outcome/Output</u> : Pave shoulders and install lighting and signage at six chain control locations to improve the safety of maintenance personnel during snow storm operations.	02-3479A SHOPP/14-15 \$3,300,000 0214000051 4 4E8124	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.235	\$66,000 \$3,234,000
	Preliminary Engineering Programmed Expended PA&ED \$400,000 \$124,419 PS&E \$600,000 \$284,694 R/W Sup \$100,000 \$78,644			
	(Construction Support: \$600,000)			
27 \$420,000 Tehama 02-Teh-5 Var.	In Tehama County on Routes 5 and 36 at various locations; also in Siskiyou County on Route 5 at various locations. <u>Outcome/Output</u> : Upgrade control units, flow sensors, valves, and other water irrigation system equipment at 8 locations to improve water conservation and drought tolerance.	02-3585 SHOPP/14-15 \$420,000 0215000059 4 0H7004	2013-14 302-0042 SHA 20.20.201.131	\$420,000
	Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$30,000 \$0 R/W Sup \$10,000 \$0			
	(Construction Support: \$140,000)			

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2.5b.(1) Projects Amended into the SHOPP by Department Action				Resolution FP-14-37
28 \$620,000	In El Dorado County, on Routes 49 and 50, at various locations; also in Sacramento and Yolo Counties on Route 80 at various locations. <u>Outcome/Output:</u> Place a thin high-friction surface treatment to reduce potential for both wet and dry weather collisions at four locations to improve safety and reduce the number and severity of collisions.	03-3306 SHOPP/14-15 \$610,000 0314000157 4 4F3904	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.010	\$12,000 \$608,000
El Dorado 03-ED-49 36.5/36.7				
	Preliminary Engineering Programmed Expended PA&ED \$140,000 \$110,366 PS&E \$140,000 \$0 R/W Sup \$20,000 \$0			
	(Construction Support: \$140,000)			
29 \$400,000	In Sacramento and San Joaquin Counties, at various locations. <u>Outcome/Output:</u> Construct 4 paved emergency vehicle median crossovers and 9 maintenance vehicle pull-outs to provide safe all-weather access.	03-5845 SHOPP/14-15 \$1,000,000 0314000145 4 4F3304	2013-14 302-0042 SHA 20.20.201.310	\$400,000
Sacramento 03-Sac-5 0.1/18.4				
	Preliminary Engineering Programmed Expended PA&ED \$265,000 \$0 PS&E \$291,000 \$0 R/W Sup \$25,000 \$0			
	(Construction Support: \$314,000)			
30 \$832,000	Near Belmont, at 1.4 miles south of Route 92. <u>Outcome/Output:</u> Install new culvert to replace failed existing culvert and restore previous storm damage.	04-0729Q SHOPP/14-15 \$840,000 0414000366 4 4G5914	2013-14 302-0042 SHA 20.20.201.131	\$832,000
San Mateo 04-SM-280 9.4				
	Preliminary Engineering Programmed Expended PA&ED \$430,000 \$0 PS&E \$123,000 \$0 R/W Sup \$70,000 \$0			
	(Construction Support: \$250,000)			
31 \$3,312,000	In Fresno County on Routes 5, 41, 99, 168 and 180 at various locations. <u>Outcome/Output:</u> Repair approximately 100 acres of irrigation systems and 36 booster pumps to improve water conservation and drought tolerance.	06-6743 SHOPP/14-15 \$3,312,000 0615000088 4 0T4204	2013-14 302-0042 SHA 20.20.201.131	\$3,312,000
Fresno 06-Fre-Var. Var.				
	Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$10,000 \$0 R/W Sup \$0 \$0			
	(Construction Support: \$590,000)			

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2.5b.(1) Projects Amended into the SHOPP by Department Action				
Resolution FP-14-37				
32 \$2,437,000 Kern 06-Ker-Var. Var.	In Kern, Tulare and Kings Counties on Route 5, 58, 99, 178, 65, 190, and 198 at various locations. <u>Outcome/Output:</u> Repair approximately 110 acres of irrigation systems and 23 booster pumps to improve water conservation and drought tolerance.	06-6742 SHOPP/14-15 \$2,437,000 0615000087 4 0T4104	2013-14 302-0042 SHA 20.20.201.131	\$2,437,000
	Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$10,000 \$0 R/W Sup \$0 \$0			
	(Construction Support: \$430,000)			
33 \$2,981,000 Kings 06-Kin-198 R15.7	Near Hanford, at the Hanford-Armona Road Undercrossing (Bridge No. 45-0078). <u>Outcome/Output:</u> Replace bridge deck to restore bridge load capacity.	06-6712 SHOPP/14-15 \$3,720,000 0614000172 4 462214	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.110	\$60,000 \$2,921,000
	Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$260,000 \$0 R/W Sup \$3,000 \$0			
	(Construction Support: \$780,000)			
34 \$591,000 Tulare 06-Tul-198 R14.6	In Farmersville, at the County Road 164 Overcrossing (Bridge No. 46-0217). <u>Outcome/Output:</u> Repair steel girders that were damaged due to a high-load vehicle hit.	06-6722 SHOPP/14-15 \$988,000 0614000264 4 0S5904	2013-14 302-0042 SHA 20.20.201.131	\$591,000
	Preliminary Engineering Programmed Expended PA&ED \$50,000 \$0 PS&E \$280,000 \$0 R/W Sup \$2,000 \$0			
	(Construction Support: \$235,000)			
35 \$1,283,000 Los Angeles 07-LA-1 28.5/34.5	In the cities of Playa Vista, Marina Del Rey, Venice and Santa Monica, from Westchester Parkway to Route 10; also on Route 405 and Route 10 at various bridges. <u>Outcome/Output:</u> Seal bridge decks with methacrylate, replace joint seals, paint bridges, repair barrier and spalls on the deck surfaces on 14 bridges.	07-4793 SHOPP/14-15 \$1,203,000 0713000438 4 2W7004	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.119	\$26,000 \$1,257,000
	Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$260,000 \$223,815 R/W Sup \$5,000 \$0			
	(Construction Support: \$260,000)			

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2.5b.(1) Projects Amended into the SHOPP by Department Action				
Resolution FP-14-37				
36 \$1,192,000 Los Angeles 07-LA-110 7.0/16.7	In the cities of Carson, Gardena and South Los Angeles, from Carson Street to 76th Street at various bridges. <u>Outcome/Output:</u> Seal bridge decks with methacrylate, replace joint seals, repair spalls and approach and departure slabs on 23 bridges to extend bridge service life.	07-4794 SHOPP/14-15 \$1,360,000 0713000442 4 2W7304	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.119	\$24,000 \$1,168,000
	Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$260,000 \$215,176 R/W Sup \$5,000 \$0 (Construction Support: \$260,000)			
37 \$1,170,000 Los Angeles 07-LA-110 16.9/23.7	In the city of Los Angeles, from Florence Avenue to Route 101 at various bridges. <u>Outcome/Output:</u> Seal bridge decks with methacrylate, replace joint seals, repair spalls and approach and departure slabs on 20 bridges to extend bridge service life.	07-4795 SHOPP/14-15 \$1,250,000 0713000437 4 2W7404	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.119	\$23,000 \$1,147,000
	Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$260,000 \$197,537 R/W Sup \$5,000 \$0 (Construction Support: \$260,000)			
38 \$878,000 Los Angeles 07-LA-405 1.6/15.8	In the cities of Long Beach and Signal Hill, from Woodruff Avenue to 182nd Street; also on Route 710 at various bridges. <u>Outcome/Output:</u> Seal bridge decks with methacrylate, replace joint seals, patch spalls on 16 bridges to extend bridge service life.	07-4796 SHOPP/14-15 \$1,414,000 0713000448 4 2W7504	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.119	\$18,000 \$860,000
	Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$280,000 \$243,232 R/W Sup \$5,000 \$0 (Construction Support: \$315,000)			
39 \$4,916,000 Calaveras 10-Cal-4 R0.0/R21.1	In and near Copperopolis, from the Stanislaus County line to Route 49. <u>Outcome/Output:</u> Rehabilitate 38 lane miles of pavement by placing asphalt concrete overlay to extend pavement service life and improve ride quality.	10-3063 SHOPP/14-15 \$5,510,000 1012000291 4 0X3904	2013-14 302-0042 SHA 302-0890 FTF 20.20.201.121	\$98,000 \$4,818,000
	Preliminary Engineering Programmed Expended PA&ED \$30,000 \$4,035 PS&E \$110,000 \$27,605 R/W Sup \$6,000 \$0 (Construction Support: \$300,000)			

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2.5b.(1) Projects Amended into the SHOPP by Department Action				Resolution FP-14-37
48 \$888,000 Orange 12-Ora-5 Var	In various cities, on various routes at various locations. <u>Outcome/Output:</u> Replace existing flow sensors and master valves. Repair irrigation systems and convert portable water irrigation systems to recycled water systems to maximize water conservation at 300 locations. Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$0 \$0 R/W Sup \$0 \$0 (Construction Support: \$119,000)	12-2530M SHOPP/14-15 \$888,000 1215000048 4 OP1804	2013-14 302-0042 SHA 20.20.201.131	\$888,000
49 \$1,026,000 Orange 12-Ora-405 8.4/10.0	In Costa Mesa, from Red Hill Avenue to Bear Street; also on Route 55 from Paularino Avenue to Main Street (PM R5.5/R6.4) <u>Outcome/Output:</u> Replace existing flow sensors and master valves. Repair irrigation system components to maximize water conservation at 250 locations. Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$0 \$0 R/W Sup \$0 \$0 (Construction Support: \$108,000)	12-5011B SHOPP/14-15 \$1,026,000 1215000047 4 OP1704	2013-14 302-0042 SHA 20.20.201.131	\$1,026,000
50 \$888,000 Orange 12-Ora-405 Var	In various cities, on various routes at various locations. <u>Outcome/Output:</u> Replace existing flow sensors and master valves. Repair irrigation system components to maximize water conservation at 300 locations. Preliminary Engineering Programmed Expended PA&ED \$0 \$0 PS&E \$0 \$0 R/W Sup \$0 \$0 (Construction Support: \$119,000)	12-4926E SHOPP/14-15 \$888,000 1215000046 4 OP1604	2013-14 302-0042 SHA 20.20.201.131	\$888,000