

**GL: Safety Improvements – SHOPP Collision Reduction  
Program  
(TIP ID – VAR170007)**

**Last updated with TIP Revision 2021-02**

**FTIP BACK-UP LIST FOR SHOPP - COLLISION REDUCTION PROJECTS (VAR170007)**  
 FOR 2019/2024 PROGRAM YEARS  
 All amounts in \$1,000

Dist	Co	Rte	PM	Location/Description	PPNO	EA	Prog Code	Con FY	Prior	20/21	21/22	22/23	23/24	PAED	PSE	RW SUP	CONSUP	RW	CON	TOTAL
04	ALA	80	4.5/7.6	In Berkeley and Albany, from Route 13 to east of El Cerrito Separation. Install median safety lighting and replace median concrete barrier.	1488S	3J700	201.010	19/20	\$22,837	\$0	\$0	\$0	\$0	\$2,750	\$2,750	\$100	\$2,625	\$25	\$14,587	\$22,837
04	ALA	84	0.7/3.1	In Fremont, from north end of Dumbarton Bridge to south of the Toll Plaza. Install outer separation barrier between route and frontage road.	1493F	4J750	201.010	19/20	\$26,080	\$0	\$0	\$0	\$0	\$2,000	\$2,500	\$240	\$2,500	\$3,280	\$15,560	\$26,080
04	ALA	880		In San Leandro, at the southbound Route 880/238 Connector offramp to Washington Avenue. Reconstruct and signalize offramp.	1491G	4J730	201.010	19/20	\$7,420	\$0	\$0	\$0	\$0	\$1,200	\$1,250	\$125	\$1,250	\$150	\$3,445	\$7,420
04	ALA	13		In various cities, on Routes 13, 61, and 123 at various locations; also in Contra Costa County, on Route 123, at Eureka Avenue. Crosswalk safety enhancements.	0488Q	0J470	201.015	19/20	\$8,311	\$0	\$0	\$0	\$0	\$788	\$1,393	\$200	\$800	\$840	\$4,290	\$8,311
04	NAP	121	0.5/1.0	Near Napa, at Huichica Creek (PM 0.75). Roadway widening.	0775G	4G210	201.010	19/20	\$20,469	\$0	\$0	\$0	\$0	\$1,750	\$1,530	\$90	\$3,000	\$1,852	\$12,247	\$20,469
04	SF	101	0.0/4.2	In the City and County of San Francisco, from San Mateo County line to Route 101/80 Junction. Overlay existing pavement with open graded asphalt, groove concrete pavement and upgrade drainage system.	1490F	4J390	201.010	19/20	\$28,220	\$0	\$0	\$0	\$0	\$1,500	\$1,700	\$30	\$3,000	\$20	\$21,970	\$28,220
04	SF	1		In the City and County of San Francisco, on Routes 1, 35, 80, 101 and 280 at various locations. Crosswalk safety enhancements.	1489B	3J890	201.015	19/20	\$8,164	\$0	\$0	\$0	\$0	\$440	\$914	\$91	\$914	\$5	\$5,800	\$8,164
04	SOL	12	19.2/19.4	Near Rio Vista, at the intersection of Route 12 and Route 113; also on Route 113 from PM 0.0/0.2. Environmental mitigation for safety project EA 4G560.	8060B	4G561	201.010	19/20	\$260	\$0	\$0	\$0	\$0	\$0	\$0	\$30	\$60	\$170	\$0	\$260
04	SON	121	3.4/6.5	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.	0738	0G680	201.010	19/20	\$43,514	\$0	\$0	\$0	\$0	\$2,500	\$3,750	\$1,800	\$4,200	\$6,264	\$25,000	\$43,514
<b>Time Extension Total</b>									<b>\$165,275</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$12,928</b>	<b>\$15,787</b>	<b>\$2,706</b>	<b>\$18,349</b>	<b>\$12,606</b>	<b>\$102,899</b>	<b>\$165,275</b>
04	ALA	580	1.3/6.0	Near Livermore, from Flynn Road to Grant Line Road. Install safety lighting and establish electrical service connection.	1495F	0K680	201.010	20/21	\$1,872	\$5,205	\$0	\$0	\$0	\$962	\$806	\$104	\$962	\$32	\$4,211	\$7,077
04	ALA	580		In Alameda County, on Route 580 at various locations; also in Contra Costa County, on Routes 160 and 680 at various locations. Install concrete barrier to shield structure column from errant vehicles and upgrade existing guardrails to current standards.	1495E	0K650	201.015	20/21	\$1,466	\$4,026	\$0	\$0	\$0	\$500	\$800	\$166	\$800	\$90	\$3,136	\$5,492
04	ALA	880	30.2/33.6	In Oakland, from south of 5th Avenue to north of 7th Street. Pave narrow strips and miscellaneous areas, construct Maintenance Vehicle Pullouts (MVPs) and upgrade crash cushions to reduce maintenance work and enhance highway worker safety.	1452N	2K820	201.235	20/21	\$950	\$2,630	\$0	\$0	\$0	\$500	\$350	\$100	\$450	\$10	\$2,170	\$3,580
04	ALA	580	1.3/6.0	Near Livermore, from Flynn Road to Grant Line Road. Environmental mitigation work for EA 0K680 for lighting impacts on species habitat.	2495P	0K681	201.010	20/21	\$0	\$3,203	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,203	\$0	\$3,203
04	SF	101	0.5/5.2	In the City and County of San Francisco, from Bayshore Boulevard Overcrossing (OC) to South Van Ness Avenue; also on Route 280, from Monterey Boulevard onramp OC to King Street onramp (PM R2.8 to T7.2). Install vandalism-resistant security fence and gates to reduce maintenance repairs and enhance highway worker safety.	1493G	4J970	201.235	20/21	\$2,045	\$7,719	\$0	\$0	\$0	\$950	\$1,000	\$95	\$1,520	\$3	\$6,196	\$9,764
04	ALA	13	6.7/7.2	In Oakland, from 0.2 mile north of Lincoln Avenue to 0.2 mile south of Park Boulevard. Install outer separation barrier and construct rumble strips.	1490P	4J490	201.010	21/22	\$824	\$709	\$3,657	\$0	\$0	\$824	\$667	\$42	\$565	\$107	\$2,985	\$5,190
04	ALA	61	19.0/21.0	In and near the cities of Alameda, Emeryville, Berkeley, Albany, and San Leandro, on Routes 61, 123, and 185 at various locations. Install vehicle speed feedback signs and upgrade signal to standard.	1464A	4K400	201.010	21/22	\$822	\$0	\$1,955	\$0	\$0	\$303	\$300	\$219	\$400	\$83	\$1,472	\$2,777
04	ALA	Var		In Alameda County, on Routes 80, 580, and 680 at various locations. Place High Friction Surface Treatment (HFST).	2025R	2Q250	201.010	21/22	\$640	\$684	\$4,208	\$0	\$0	\$640	\$674	\$10	\$694	\$12	\$3,502	\$5,532

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04	ALA	13		In Alameda County, on Routes 13, 24, 580, 680, and 880 at various locations; also in Contra Costa County, on Routes 4, 24, 80, 160, and 680 at various locations. Install Rectangular Rapid Flashing Beacons (RRFBs) to enhance pedestrian safety at ramp termini and uncontrolled pedestrian crossings.	1492F	0K120	201.015	21/22	\$2,406	\$229	\$9,872	\$0	\$0	\$1,261	\$1,145	\$229	\$1,345	\$290	\$8,237	\$12,507
04	ALA	580		In Alameda and Contra Costa Counties, on various routes at various locations. Upgrade advance warning signs to make standard.	1496A	0K770	201.015	21/22	\$1,410	\$0	\$3,446	\$0	\$0	\$700	\$700	\$10	\$700	\$108	\$2,638	\$4,856
04	ALA	580		In various cities, on Routes 580, 680, 880, and 980 at various locations. Enhance pedestrian safety by installing Accessible Pedestrian Signals (APS) systems and countdown timers and upgrading crosswalk markings.	1487M	3J130	201.015	21/22	\$2,010	\$0	\$7,118	\$0	\$0	\$940	\$940	\$130	\$1,030	\$20	\$6,068	\$9,128
04	ALA	Var		In Alameda County, on Routes 80 and 880 at various locations; also in Contra Costa County, on Routes 24 and 680 at various locations. Install High Friction Surface Treatment (HFST) at spot locations to enhance wet pavement conditions.	1481B	1J780	201.015	21/22	\$2,496	\$0	\$6,482	\$0	\$0	\$1,118	\$1,274	\$104	\$1,434	\$10	\$5,038	\$8,978
04	ALA	580	0.1/9.0	In and near Livermore, from San Joaquin County line to 0.7 mile west of Greenville Road. Highway worker safety improvements.	1494D	4J940	201.235	21/22	\$1,100	\$0	\$2,705	\$0	\$0	\$625	\$400	\$75	\$525	\$183	\$1,997	\$3,805
04	CC	4	1.0/9.0	In and near Martinez, from East Hercules Underpass to west of Pine Street/Center Avenue. Install safety lighting and apply High Friction Surface Treatment (HFST).	1454F	3K440	201.010	21/22	\$920	\$1,341	\$9,454	\$0	\$0	\$920	\$1,300	\$41	\$1,579	\$5	\$7,870	\$11,715
04	CC	80	0.0/13.5	In various cities, from Alameda County line to 0.6 mile west of Solano County line; also in Alameda County in Albany, from 0.4 mile west to the Contra Costa County line (PM R7.6/8.0). Install lighting and upgrade concrete barrier.	1497F	0K160	201.010	21/22	\$6,869	\$8,243	\$60,202	\$0	\$0	\$6,869	\$6,869	\$1,374	\$7,327	\$254	\$52,621	\$75,314
04	CC	4	0.0/20.4	In and near Hercules, Martinez, and Concord, at various locations from Route 80 to 0.3 mile east of Bailey Road. Upgrade guardrail to make standard.	0481U	0J480	201.015	21/22	\$2,400	\$52	\$13,910	\$0	\$0	\$1,000	\$1,400	\$52	\$1,500	\$10	\$12,400	\$16,362
04	CC	4		In Contra Costa County, on Routes 4, 24, 80, 123, 242, 580, and 680 at various locations. Install Accessible Pedestrian Signals (APS) systems and pedestrian countdown timers, and refresh crosswalk markings with high-visibility striping to enhance pedestrian safety.	1487N	3J140	201.015	21/22	\$2,296	\$0	\$9,037	\$0	\$0	\$1,108	\$1,108	\$80	\$1,400	\$150	\$7,487	\$11,333
04	CC	4	31.0/48.2	In and near Antioch and Brentwood, from 0.6 mile east of Route 160 to Old River Bridge. Construct and modify Maintenance Vehicle Pullouts (MVPs) to improve highway worker safety.	1492H	4J950	201.235	21/22	\$928	\$663	\$1,876	\$0	\$0	\$928	\$663	\$40	\$530	\$72	\$1,234	\$3,467
04	NAP	121	0.5/1.0	Near Napa, at Huichica Creek (PM 0.75). Mitigation planting, monitoring and reporting for EA 4G210.	1775H	4G21A	201.010	21/22	\$0	\$0	\$1,900	\$0	\$0	\$0	\$0	\$0	\$900	\$0	\$1,000	\$1,900
04	SCL	35	14.1/17.1	Near Saratoga, from Route 9 Junction to San Mateo County line; also in San Mateo County near Woodside from the Santa Clara County line to Route 84 (PM 2.121/10.518). Install centerline rumble strips, curve signs, pavement markings with audible traffic stripe systems, optical speed bars, and high visibility striping.	1462H	0P48U	201.010	21/22	\$1,115	\$41	\$5,227	\$0	\$0	\$290	\$825	\$41	\$851	\$20	\$4,356	\$6,383
04	SCL	9		In Santa Clara County, on Routes 9, 17, 85, 87, 101, 152, 237, 280, 680, and 880 at various locations. Relocate or shield existing electrical controller cabinets and install twenty-eight new Maintenance Vehicle Pullouts (MVPs).	1486A	2J950	201.015	21/22	\$1,300	\$1,445	\$8,574	\$0	\$0	\$1,300	\$1,400	\$45	\$1,600	\$50	\$6,924	\$11,319
04	SCL	Var		On various routes, in various cities at various locations. Replace pedestrian push-buttons and signal heads with Accessible Pedestrian Signals (APS) and countdown timers and refresh crosswalk markings to enhance pedestrian safety.	1492E	0K080	201.015	21/22	\$939	\$1,141	\$10,474	\$0	\$0	\$939	\$1,141	\$36	\$1,304	\$23	\$9,111	\$12,554

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04	SCL	152	11.2/35.2	Near Gilroy, from Llagas Creek Bridge to the Merced County line. Construct Maintenance Vehicle Pullouts (MVPs) and vegetation control under existing guardrail to improve highway worker safety.	1452E	2K800	201.235	21/22	\$1,845	\$0	\$7,300	\$0	\$0	\$800	\$1,000	\$45	\$700	\$10	\$6,590	\$9,145
04	SCL	280	0.0/5.4	In and near San Jose, from Route 101 to Route 17/880 Separation. Pave extended gore areas and narrow strips to improve highway worker safety.	1492D	4J960	201.235	21/22	\$1,550	\$0	\$4,570	\$0	\$0	\$780	\$770	\$62	\$503	\$170	\$3,835	\$6,120
04	SF	35		In the City and County of San Francisco, at Great Highway intersection. Install new signal.	1459E	3K420	201.010	21/22	\$1,550	\$1,470	\$2,950	\$0	\$0	\$1,550	\$1,291	\$179	\$1,341	\$62	\$1,547	\$5,970
04	SM	Var		In and near various cities, on Routes 1, 35, 82, 84, 92, 101, 109, 114, 280, and 380 at various locations. Enhance pedestrian safety by upgrading signals with Accessible Pedestrian Signals (APS) audible indicators, pushbuttons, and countdown timers, and upgrading crosswalk markings.	1491J	0K070	201.015	21/22	\$2,675	\$0	\$7,139	\$0	\$0	\$1,250	\$1,250	\$175	\$1,250	\$57	\$5,832	\$9,814
04	SOL	80	17.2/19.2	In Fairfield, from West Texas Street to Airbase Parkway at various locations; also in Vallejo on Route 29 at Route 29/37 Separation (PM 4.9). Upgrade fencing and gates.	1452K	2K810	201.235	21/22	\$1,200	\$0	\$3,702	\$0	\$0	\$550	\$550	\$100	\$550	\$10	\$3,142	\$4,902
04	SON	116		Near Petaluma, at the intersection with Lakeville Highway. Intersection improvements.	2028S	2Q770	201.010	23/24	\$1,877	\$0	\$2,500	\$0	\$7,853	\$1,877	\$2,065	\$435	\$1,954	\$755	\$5,144	\$12,230
04	SON	12		In Sonoma County, on Routes 12 and 116 at various locations; also in Marin County, on Routes 1 and 131 at various locations; and in Napa County on Routes 29 and 121 at various locations. Install hybrid beacons, stop and yield lines, crosswalks and bulb-outs, and upgrade curb ramps to enhance pedestrian safety.	1492G	0K130	201.015	21/22	\$1,750	\$0	\$2,933	\$0	\$0	\$800	\$880	\$70	\$740	\$36	\$2,157	\$4,683
04	ALA	61	16.4/18.1	In the cities of Oakland and Alameda, from Swan Road to Harbor Bay Parkway. Install new and upgrade existing guardrail in the northbound direction.	2804F	2Q140	201.010	22/23	\$991	\$0	\$1,031	\$2,158	\$0	\$991	\$904	\$127	\$751	\$126	\$1,281	\$4,180
04	ALA	880	27.1/27.3	In Oakland, from 0.1 mile south to 0.1 mile north of East Creek Slough Bridge No. 33-0143. Construct outer separation concrete barrier in southbound direction, replace bridge rail, and install a drainage system.	1491C	4J540	201.010	22/23	\$956	\$0	\$1,368	\$5,677	\$0	\$956	\$1,266	\$102	\$1,041	\$601	\$4,035	\$8,001
04	NAP	29		<b>In Napa County, on Routes 29, 121, and 128 at various locations. Install rumble strips.</b>	2033M	3Q760	201.010	22/23	\$0	\$794	\$1,573	\$4,504	\$0	\$794	\$1,403	\$170	\$1,215	\$18	\$3,271	\$6,871
04	SM	35	26.2/27.9	In Pacifica and South San Francisco, at the intersections of Route 35 and Sharp Park Road, and Route 35 and Hickey Road. Upgrade and reposition traffic signals, and upgrade facilities to Americans with Disabilities Act (ADA) standards.	2031E	0Q040	201.010	22/23	\$582	\$312	\$780	\$4,177	\$0	\$582	\$780	\$312	\$1,060	\$423	\$2,694	\$5,851
04	SCL	101	0.1/49.6	In Santa Clara County, on Routes 9, 17, 85, 87, 101, 152, 237, 280, 680, and 880 at various locations. Upgrade guardrail transition railing.	1495A	0K110	201.015	23/24	\$0	\$1,127	\$1,644	\$0	\$12,055	\$1,127	\$1,574	\$70	\$1,702	\$10	\$10,343	\$14,826
04	SM	1	36.5/38.3	Near Montara, from 0.1 mile south of 2nd Street to 0.3 mile south of Tom Lantos Tunnel. Install new standard safety barrier.	2021A	0Q610	201.010	23/24	\$2,148	\$0	\$2,731	\$0	\$8,744	\$2,148	\$2,672	\$59	\$1,637	\$158	\$6,949	\$13,623
04	SM	92		In San Mateo County, on Routes 92, 101, 280, and 380 at various locations. Enhance pedestrian and bicyclist safety by installing flashing beacon systems, upgrading crosswalk markings and ramp metering systems, and upgrading facilities to Americans with Disabilities Act (ADA) standards.	2022N	1Q200	201.015	23/24	\$0	\$1,919	\$2,116	\$0	\$16,299	\$1,919	\$2,054	\$62	\$2,492	\$126	\$13,681	\$20,334
04	SOL	80	22.1/23.0	<b>Near Fairfield, from 1.0 mile west to 0.1 mile west of Cherry Glen Road. Install outer separation concrete barrier between westbound Route 80 and Lyon Road.</b>	1459D	4K300	201.010	23/24	\$0	\$1,056	\$0	\$1,509	\$7,072	\$1,056	\$1,042	\$467	\$929	\$260	\$5,883	\$9,637
04	SOL	Var		In Solano County, on Routes 29, 37, 80, and 780 at various locations. Enhance pedestrian and bicyclist safety by installing flashing beacon systems and upgrading crosswalk markings.	1464J	0P760	201.015	23/24	\$0	\$604	\$905	\$0	\$7,067	\$604	\$840	\$65	\$1,006	\$98	\$5,963	\$8,576

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04	SOL	Var		In Solano County, on Routes 12, 29, 37, 80, 113, 505, and 780 at various locations. Enhance pedestrian safety by installing Accessible Pedestrian Signal (APS) systems and countdown timers and upgrading crosswalk markings.	1493H	0K100	201.015	23/24	\$0	\$390	\$0	\$577	\$4,233	\$390	\$555	\$22	\$950	\$20	\$3,263	\$5,200
04	SON	1	0.0/58.6	In Sonoma County, from Marin County line to Mendocino County line (PM 0.0/58.583). Install centerline rumble strips, widen shoulders and install wet night visibility striping.	0820H	4G780	201.010	23/24	\$0	\$2,155	\$0	\$2,073	\$17,649	\$2,155	\$1,893	\$180	\$3,817	\$314	\$13,518	\$21,877
04	SON	12		In Santa Rosa, at intersection with Boas Drive. Install traffic signal.	2026M	2Q780	201.010	23/24	\$1,097	\$0	\$1,494	\$0	\$3,553	\$1,097	\$1,303	\$191	\$1,089	\$365	\$2,099	\$6,144
<b>2020 SHOPP - Collision Reduction TOTAL</b>									<b>\$53,029</b>	<b>\$47,158</b>	<b>\$204,833</b>	<b>\$20,675</b>	<b>\$84,525</b>	<b>\$44,103</b>	<b>\$47,854</b>	<b>\$5,886</b>	<b>\$52,143</b>	<b>\$8,354</b>	<b>\$251,880</b>	<b>\$410,220</b>
<b>SHOPP - Collision Reduction NEW REQUESTED TOTAL</b>									<b>\$218,304</b>	<b>\$47,158</b>	<b>\$204,833</b>	<b>\$20,675</b>	<b>\$84,525</b>	<b>\$57,031</b>	<b>\$63,641</b>	<b>\$8,592</b>	<b>\$70,492</b>	<b>\$20,960</b>	<b>\$354,779</b>	<b>\$575,495</b>
<b>SHOPP - Collision Reduction PROGRAMMED TOTAL</b>									<b>\$218,304</b>	<b>\$43,153</b>	<b>\$203,260</b>	<b>\$12,589</b>	<b>\$59,804</b>	<b>\$ 53,026</b>	<b>\$ 59,303</b>	<b>\$7,775</b>	<b>\$64,531</b>	<b>\$20,368</b>	<b>\$332,107</b>	<b>\$537,110</b>
<b>SHOPP - Collision Reduction DIFFERENCE TOTAL</b>									<b>\$ -</b>	<b>\$ 4,005</b>	<b>\$ 1,573</b>	<b>\$ 8,086</b>	<b>\$ 24,721</b>	<b>\$ 4,005</b>	<b>\$ 4,338</b>	<b>\$ 817</b>	<b>\$ 5,961</b>	<b>\$ 592</b>	<b>\$ 22,672</b>	<b>\$ 38,385</b>