

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

**Last updated with TIP Revision 2023-32**

**FTIP BACK-UP LIST FOR SHOPP - COLLISION REDUCTION PROJECTS (VAR170007)**

FOR 2021/2026 PROGRAM YEARS

All amounts in \$1,000

Dist	Co	Rte	PM	Location/Description	PPNO	EA	Prog Code	Con FY	Prior	22/23	23/24	24/25	25/26	PAED	PSE	RW SUP	CONSUP	RW	CON	TOTAL
4	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	\$8,046	\$0	\$0	\$0	\$0	\$824	\$667	\$42	\$1,062	\$107	\$5,344	\$8,046
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	\$3,865	\$0	\$0	\$0	\$0	\$303	\$358	\$219	\$460	\$83	\$2,442	\$3,865
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	\$6,155	\$0	\$0	\$0	\$0	\$640	\$674	\$10	\$694	\$12	\$4,125	\$6,155
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	\$12,507	\$0	\$0	\$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	\$4,856	\$0	\$0	\$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	\$9,128	\$0	\$0	\$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	\$8,978	\$0	\$0	\$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	\$3,805	\$0	\$0	\$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	\$11,715	\$0	\$0	\$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	\$93,569	\$0	\$0	\$0	\$0	\$6,869	\$6,869	\$1,374	\$7,327	\$1,339	\$69,791	\$93,569
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	\$16,362	\$0	\$0	\$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	\$11,333	\$0	\$0	\$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	\$3,467	\$0	\$0	\$0	\$0	\$928	\$663	\$40	\$530	\$72	\$1,234	\$3,467
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	\$6,383	\$0	\$0	\$0	\$0	\$290	\$825	\$41	\$851	\$20	\$4,356	\$6,383

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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	\$11,319	\$0	\$0	\$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	\$13,278	\$0	\$0	\$0	\$0	\$939	\$1,241	\$36	\$1,499	\$103	\$9,460	\$13,278
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	\$9,175	\$0	\$0	\$0	\$0	\$800	\$1,000	\$45	\$700	\$40	\$6,590	\$9,175
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	\$6,120	\$0	\$0	\$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	\$5,970	\$0	\$0	\$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	\$9,814	\$0	\$0	\$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	\$4,902	\$0	\$0	\$0	\$0	\$550	\$550	\$100	\$550	\$10	\$3,142	\$4,902
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	\$5,573	\$0	\$0	\$0	\$0	\$800	\$880	\$70	\$930	\$56	\$2,837	\$5,573
<b>Time Extension Total</b>									<b>\$266,320</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$25,495</b>	<b>\$26,705</b>	<b>\$3,159</b>	<b>\$28,810</b>	<b>\$2,957</b>	<b>\$179,194</b>	<b>\$266,320</b>
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	\$2,324	\$5,677	\$0	\$0	\$0	\$956	\$1,266	\$102	\$1,041	\$601	\$4,035	\$8,001
04	NAP	29		In Napa County, on Routes 29, 121, and 128 at various locations. Install rumble strips.	2033M	3Q760	201.010	22/23	\$2,367	\$4,504	\$0	\$0	\$0	\$794	\$1,403	\$170	\$1,215	\$18	\$3,271	\$6,871
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	22/23	\$2,771	\$17,434	\$0	\$0	\$0	\$1,127	\$1,574	\$70	\$1,875	\$30	\$15,529	\$20,205
04	SF	101	5.0/5.3	In the City and County of San Francisco, below Route 101 on 13th Street from Folsom Street to Otis Street/Mission Street. Construct and upgrade curb ramps, sidewalks, crosswalks, bulb-outs, painted safety zone markings, Accessible Pedestrian Signals (APS) and traffic signals to meet current Americans with Disabilities Act (ADA) standards as complete streets elements. Financial Contribution Only (FCO) to the San Francisco Municipal Transportation Authority (SFMTA) for construction implementation.	2908F	2W250	201.015	22/23	\$0	\$2,115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,115	\$2,115
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	\$1,674	\$4,177	\$0	\$0	\$0	\$582	\$780	\$312	\$1,060	\$423	\$2,694	\$5,851

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04	ALA	80	5.9/6.4	In Berkeley, from University Avenue to west of Gilman Street; also in Contra Costa County, in Pleasant Hill on Route 680 from Oak Park Boulevard to 0.2 mile north of Oak Park Boulevard (PM 16.9/17.1). Construct outer separation concrete barriers between freeway and frontage roads.	1489A	3J260	201.010	23/24	\$2,288	\$0	\$9,864	\$0	\$0	\$790	\$1,434	\$64	\$1,396	\$70	\$8,398	\$12,152
04	ALA	84	10.8/18.0	In and near Fremont, Union City, and Sunol, from Mission Boulevard to Route 680. Install flashing beacons, curve warning signs, speed advisory signs, and delineators.	2030E	3Q850	201.010	23/24	\$1,046	\$1,470	\$3,008	\$0	\$0	\$1,046	\$1,417	\$53	\$1,178	\$40	\$1,790	\$5,524
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	23/24	\$0	\$0	\$1,900	\$0	\$0	\$0	\$0	\$0	\$900	\$0	\$1,000	\$1,900
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	\$4,879	\$0	\$8,744	\$0	\$0	\$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	\$4,035	\$0	\$16,299	\$0	\$0	\$1,919	\$2,054	\$62	\$2,492	\$126	\$13,681	\$20,334
04	SOL	80	22.1/23.0	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.	1459D	4K300	201.010	23/24	\$1,056	\$1,509	\$7,072	\$0	\$0	\$1,056	\$1,042	\$467	\$929	\$260	\$5,883	\$9,637
04	SOL	12	3.2/7.5	In Fairfield and Suisun, from Beck Avenue to Lawler Ranch Parkway/Walters Road. Install flashing beacons, signal ahead warning signs and pavement markings.	2034H	0W110	201.010	23/24	\$686	\$1,058	\$4,102	\$0	\$0	\$686	\$1,045	\$13	\$962	\$48	\$3,092	\$5,846
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	\$1,509	\$0	\$7,067	\$0	\$0	\$604	\$840	\$65	\$1,006	\$98	\$5,963	\$8,576
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	\$390	\$577	\$4,233	\$0	\$0	\$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	\$2,155	\$2,073	\$17,649	\$0	\$0	\$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	\$2,591	\$0	\$3,553	\$0	\$0	\$1,097	\$1,303	\$191	\$1,089	\$365	\$2,099	\$6,144
04	ALA	80	2.4/7.0	In Alameda County, in various cities on Routes 80 and 580 at various locations. Install pavement delineation and markings to alert motorists of wrong-way driving at exit ramps.	2914S	0Y660	201.010	24/25	\$0	\$0	\$944	\$1,982	\$0	\$944	\$470	\$5	\$868	\$2	\$637	\$2,926
04	MRN	37		In San Francisco and Marin Counties, on Routes 35, 37, 80, 101, 131, 280, and 580 at various locations. Replace or install curve warning signs.	2034N	3AC80	201.015	24/25	\$0	\$1,052	\$1,494	\$3,024	\$0	\$1,052	\$1,321	\$173	\$1,414	\$43	\$1,567	\$5,570
04	NAP	12		In Napa and Solano Counties, on various routes at various locations. Replace or install curve warning signs.	2304A	4AC90	201.015	24/25	\$0	\$1,036	\$1,884	\$6,105	\$0	\$1,036	\$1,794	\$90	\$1,620	\$14	\$4,471	\$9,025
04	SCL	101	0.0/3.2	Near Gilroy, from San Benito County line to Route 25. Construct rumble strips, upgrade guardrail, and install high visibility striping.	2913E	1W190	201.010	24/25	\$0	\$506	\$800	\$2,629	\$0	\$506	\$764	\$36	\$711	\$45	\$1,873	\$3,935
04	SCL	152	12.9/21.8	Near Gilroy, from west of Canada Road to Route 156. Install centerline and edgeline rumble strips, widen roadway, and install curve warning signs.	2909Q	0W700	201.010	24/25	\$0	\$1,269	\$1,333	\$12,306	\$0	\$1,269	\$1,271	\$62	\$1,908	\$33	\$10,365	\$14,908
04	SON	116		Near Petaluma, at the intersection with Lakeville Highway. Construct Roundabout.	2028S	2Q770	201.010	24/25	\$4,832	\$0	\$0	\$11,166	\$0	\$1,877	\$2,437	\$518	\$2,854	\$854	\$7,458	\$15,998

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04	SON	12		In Sonoma County, on Routes 12, 37, 101, 116, 121, and 128 at various locations. Replace or install curve warning signs.	2035C	4AC40	201.015	24/25	\$0	\$830	\$1,308	\$3,560	\$0	\$830	\$1,284	\$24	\$760	\$54	\$2,746	\$5,698
04	ALA	680	0.3/1.0	In Fremont, from 0.2 mile north to 0.9 mile north of Scott Creek Road. Apply High Friction Surface Treatment (HFST), and install guardrail and drainage inlets.	2909J	1W710	201.010	25/26	\$0	\$864	\$1,335	\$0	\$5,029	\$864	\$1,273	\$62	\$1,241	\$20	\$3,768	\$7,228
04	SM	9		In San Mateo and Santa Clara Counties, on various routes at various locations. Replace or install curve warning signs.	2034K	3AC00	201.015	25/26	\$0	\$1,730	\$1,854	\$0	\$8,422	\$1,730	\$1,829	\$25	\$2,183	\$163	\$6,076	\$12,006
04	SOL	80	1.0/28.0	In and near Vallejo, Fairfield and Vacaville, from Route 29 to Nut Tree Road. Replace traffic striping and pavement markings at ramps.	2915C	1Y000	201.010	25/26	\$0	\$0	\$445	\$522	\$2,015	\$445	\$510	\$12	\$503	\$48	\$1,464	\$2,982
04	SON	12	34.9/36.1	Near the city of Sonoma, from Waterman Avenue to Lomita Avenue. Construct left-turn lane onto Verano Avenue, install audible accessible pedestrian signals (APS), and upgrade facilities to Americans with Disabilities Act (ADA) standards.	2921L	3Y710	201.015	25/26	\$0	\$0	\$1,000	\$1,480	\$5,860	\$1,000	\$1,010	\$470	\$1,230	\$150	\$4,480	\$8,340
04	SON	116	21.6/22.6	Near Sebastopol, at the intersection with Green Valley Road. Construct intersection improvements.	2029L	3Q640	201.010	25/26	\$0	\$1,307	\$0	\$2,337	\$11,441	\$1,307	\$1,739	\$598	\$1,578	\$2,266	\$7,597	\$15,085
04	ALA	580	32.1/45.7	In and near San Leandro and Oakland, from 0.2 mile west of 159th Avenue to 0.1 mile east of Market Street; also on Route 13, from Route 580 to Mountain Boulevard Undercrossing (PM 4.262/4.319). Replace median barrier, overhead structures and sign panels, install Light Emitting Diode (LED) safety lights, and upgrade guardrail.	2913J	3W200	201.015	26/27	\$0	\$0	\$0	\$3,777	\$4,430	\$3,777	\$4,370	\$60	\$0	\$0	\$0	\$8,207
04	SOL	37	7.1/9.0	In and near Vallejo, from Walnut Avenue/Mare Island to 0.5 mile east of Sacramento Street. Install Variable Message Sign (VMS) System consisting of a Changeable Message Sign (CMS), a queue detection system, and lighting along westbound Route 37.	2916S	1Y600	201.010	27/28	\$0	\$0	\$1,107	\$0	\$1,225	\$1,107	\$1,125	\$100	\$0	\$0	\$0	\$2,332
SHOPP - Collision Reduction 2022 SHOPP TOTAL									\$34,603	\$49,188	\$96,995	\$48,888	\$38,422	\$33,094	\$40,475	\$4,065	\$38,417	\$6,263	\$145,782	\$268,096
SHOPP - Collision Reduction NEW REQUESTED TOTAL									\$300,923	\$49,188	\$96,995	\$48,888	\$38,422	\$58,589	\$67,180	\$7,224	\$67,227	\$9,220	\$324,976	\$534,416
SHOPP - Collision Reduction PROGRAMMED TOTAL									\$300,923	\$49,188	\$95,888	\$45,111	\$32,767	\$53,705	\$61,685	\$7,064	\$67,227	\$9,220	\$324,976	\$523,877
SHOPP - Collision Reduction DIFFERENCE TOTAL									\$0	\$0	\$1,107	\$3,777	\$5,655	\$4,884	\$5,495	\$160	\$0	\$0	\$0	\$10,539