
Appendix H

Collision Summary of ISATe Model Results

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Summary of ISATe model results per scenario

Study Year	Data Source	Scenario	Mainline		Ramps		Terminals		Total Crashes	Total Crashes Per MVM
			Crashes	Crashes Per MVM	Crashes	Crashes Per MVM	Crashes	Crashes Per MEV		
2014	Existing Data	No Build	212	1.05	42	2.53	7	0.12	261	1.37
2014	Model outputs	No Build	178	0.88	19	1.12	22	0.40	219	1.15
2020	Model outputs	No Build	204	0.93	18	1.17	24	0.40	246	1.19
2040	Model outputs	No Build	247	1.00	15	1.11	25	0.40	287	1.21
2020	Model outputs	Build	214	0.90	22	1.18	25	0.38	261	1.16
2040	Model outputs	Build	281	1.00	20	1.15	25	0.38	326	1.21

MVM = Million Vehicle Miles

MEV = Million Entering Vehicle

Summary of ISATe model results per scenario

			North																			
			Segment 6		Segment 1		Segment 2		Segment 3		Segment 4		Segment 5		Segment 6		Segment 7					
Study Year	Data Source	Scenario	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM				
2014	Existing Data	No Build	46.6	1.51	38.6	0.70	42.6	2.03	15.0	0.71	28.2	1.06	12.8	0.52	27.2	1.16	0.0	0.00				
2014	Model outputs	No Build	24.7	0.80	46.4	0.85	19.1	0.91	24.0	1.13	23.7	0.89	22.9	0.94	16.9	0.72	0.0	0.00				
2040	Model outputs	No Build	29.4	0.86	51.9	0.89	21.4	0.93	28.0	1.21	27.6	0.95	26.5	0.99	19.6	0.76	0.0	0.00				
2040	Model outputs	Build	34.7	0.92	62.8	0.96	26.5	1.02	33.1	1.29	32.3	1.01	33.9	1.11	23.3	0.81	0.0	0.00				
			Segment 1		Segment 2		Segment 3		Segment 4		Segment 5		Segment 6		Segment 7		Segment 8		Segment 9			
2020	Model outputs	Build	29.9	0.87	48.2	0.80	4.3	0.83	21.9	0.86	20.9	1.15	8.7	1.09	28.8	0.90	30.6	1.09	20.5	0.77	0.0	0.00
2040	Model outputs	Build	42.2	0.98	64.7	0.91	5.9	0.95	30.1	0.98	27.2	1.29	11.1	1.21	37.0	1.00	37.3	1.15	25.4	0.84	0.0	0.00
2020			52.5		81				29.6													
2040			70.6		91				38.2													

			North																																															
			Ramp 1		Ramp 2		Ramp 3		Ramp 4		Ramp 5		Ramp 6		Ramp 7		Ramp 8		Ramp 9		Ramp 10		Ramp 11		Ramp 12		Ramp 13		Ramp 14		Ramp 15		Ramp 16		Ramp 17		Ramp 18		Ramp 19		Ramp 20		Ramp 21		Ramp 22		Ramp 23		Ramp 24	
Study Year	Data Source	Scenario	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM	Crashes Per MVM		
2014	Existing Data	No Build	0.2	1.90	0.4	0.69	5.6	37.72	4.6	39.78	1.8	17.49	0.4	0.25	0.2	2.21	1.0	15.39	0.2	4.51	0.4	1.87	3.6	7.96	0.0	0.00	0.0	0.00	0.6	0.38	0.2	1.53	0.6	6.95	0.6	3.96	0.2	0.42	1.4	5.35	1.2	4.08	0.2	0.76	0.4	0.71	0.4	1.21	1.0	1.40
2014	Model outputs	No Build	0.1	0.92	0.4	0.73	0.1	0.80	0.1	1.02	0.1	0.90	1.0	0.59	0.1	1.01	0.1	1.23	0.0	1.07	0.2	0.78	0.3	0.68	0.2	0.88	0.2	0.88	1.0	0.61	0.1	0.88	0.1	1.19	0.2	1.13	0.4	0.73	0.2	0.67	0.3	1.07	0.3	1.17	0.4	0.66	0.2	0.60	0.7	0.95
2020	Model outputs	No Build	0.1	0.91	0.3	0.74	0.2	0.69	0.2	0.89	0.1	0.87	0.9	0.57	0.1	0.90	0.1	1.10	0.0	1.02	0.2	0.74	0.3	0.71	0.2	0.92	0.2	0.90	1.1	0.62	0.1	0.84	0.1	1.13	0.2	1.14	0.4	0.73	0.2	0.68	0.3	1.08	0.3	1.19	0.4	0.67	0.2	0.60	0.7	0.96
2040	Model outputs	No Build	0.1	1.02	0.2	0.84	0.2	0.70	0.2	0.89	0.1	0.90	0.9	0.59	0.1	1.00	0.1	1.23	0.0	1.06	0.2	0.77	0.4	0.60	0.3	0.79	0.3	0.89	1.3	0.60	0.2	0.79	0.1	1.06	0.3	1.07	0.5	0.67	0.2	0.71	0.3	1.12	0.3	1.19	0.3	0.68	0.2	0.58	0.7	0.93
2020	Model outputs	Build	0.4	1.03	0.3	0.64	0.2	0.73	0.4	2.07	1.5	1.11	0.9	0.57	0.1	0.91	0.3	1.92	0.2	0.86	0.2	0.67	0.3	0.79	0.2	1.45	0.6	0.81	0.5	0.53	0.1	0.84	0.2	1.43	0.2	1.11	0.4	0.73	0.2	0.73	0.3	1.16	0.3	1.25	0.3	0.72	0.3	0.50	0.5	0.86
2040	Model outputs	Build	0.4	0.91	0.3	0.57	0.2	0.81	0.3	2.27	1.4	1.13	0.8	0.58	0.1	0.82	0.3	1.73	0.2	0.89	0.2	0.69	0.2	1.00	0.2	1.84	0.7	0.80	0.7	0.51	0.2	0.92	0.3	1.57	0.3	1.18	0.5	0.76	0.1	0.83	0.2	1.32	0.3	1.35	0.3	0.78	0.2	0.24	0.7	0.98

			North											
			Berkeley Drive				Thorne Lane				Gravelly Lake Drive			
			Terminal 1		Terminal 2		Terminal 3		Terminal 4		Terminal 5		Terminal 6	
Study Year	Data Source	Scenario	Crashes Per MeV	Crashes Per MeV	Crashes Per MeV	Crashes Per MeV	Crashes Per MeV	Crashes Per MeV	Crashes Per MeV	Crashes Per MeV	Crashes Per MeV	Crashes Per MeV	Crashes Per MeV	Crashes Per MeV
2014	Existing Data	No Build	0.4	0.56	0.6	0.65	2.4	0.38	1.8	0.18	1.0	0.08	0.4	0.05
2014	Model outputs	No Build	1.9	0.26	7.5	0.60	1.2	0.20	4.7	0.47	5.0	0.42	1.9	0.24
2020	Model outputs	No Build	2.1	0.25	7.9	0.60	1.5	0.21	4.6	0.49	5.8	0.44	2.1	0.24
2040	Model outputs	No Build	2.1	0.24	7.6	0.57	1.8	0.21	4.8	0.50	6.5	0.47	2.5	0.26
2020	Model outputs	Build	1.9	0.22	8.4	0.58	3.9	0.43	4.3	0.36	5.3	0.43	0.9	0.12
2040	Model outputs	Build	1.6	0.20	7.3	0.56	3.8	0.44	3.7	0.32	6.5	0.45	2.5	0.23

COLLISION RATE SUMMARY OF 2010-2014 MAINLINE CRASHES PER MVM BY SEGMENT & CORRIDOR

		Mainline										
5-year crash data (2010-2014)	Segment	1	South Section	1	2	3	4	5	6		North Section	Corridor
		Length of Segment (mi)	0.77	0.77	1.16	0.48	0.42	0.55	0.46	0.50		3.58
	ADT of Segment	110,000	110,000	129,000	119,000	137,000	132,000	146,000	130,000		131,388	127,611
	Vehicles-Miles per day	84,375	84,375	149,767	57,427	58,199	72,875	67,110	64,508		469,885	554,260
	Vehicle-Miles per year	30,796,875	30,796,875	54,664,972	20,960,678	21,242,654	26,599,375	24,495,233	23,545,265		171,508,177	202,305,052
	Number of Crashes per Year	47	47	40	43	15	28	13	27		165	212
	Crashes per Vehicle Mile	0.00000151	0.00000151	0.56609848	0.00000203	0.00000071	0.00000106	0.00000052	0.00000116		0.00000096	0.00000105
	Crashes per 1 MVM per Year	1.51	1.51	0.70	2.03	0.71	1.06	0.52	1.16		0.96	1.05

		Mainline										
ISATe model estimates (baseline)	Segment	1	South Section	1	2	3	4	5	6		North Section	Corridor
		Length of Segment (mi)	0.77	0.77	1.16	0.48	0.42	0.55	0.46	0.50		3.58
	ADT of Segment	110,000	110,000	129,000	119,000	137,000	132,000	146,000	130,000		131,388	127,611
	Vehicles-Miles per day	84,375	84,375	149,767	57,427	58,199	72,875	67,110	64,508		469,885	554,260
	Vehicle-Miles per year	30,796,875	30,796,875	54,664,972	20,960,678	21,242,654	26,599,375	24,495,233	23,545,265		171,508,177	202,305,052
	Number of Crashes per Year	24.72	24.7	46.43	19.14	24.05	23.73	22.91	16.91		153.2	178
	Crashes per Vehicle Mile	0.00000080	0.00000080	0.00000085	0.00000091	0.00000113	0.00000089	0.00000094	0.00000072		0.00000089	0.00000088
	Crashes per 1 MVM per Year	0.80	0.80	0.85	0.91	1.13	0.89	0.94	0.72		0.89	0.88
	related ramp crashes per year	#VALUE!		#VALUE!	0.00	68.00	0.00	132.00	0.00			
	related terminal crashes per year				0.00		0.00		0.00			
	Number of Crashes per Year	35.43		55.90	23.49	31.14	30.29	33.93	23.95			

Note: MVM = Million Vehicles Miles

COLLISION RATE SUMMARY OF 2010-2014 RAMP & C/D ROADWAY CRASHES PER MVM BY SEGMENT & CORRIDOR

COLLISION RATE SUMMARY OF 2010-2014 RAMP & C/D ROADWAY CRASHES PER MVM BY SEGMENT & CORRIDOR

segment	7	7	6	5	5	7	6	6	5	7	6	6	5	7	1	1	3	3	3	3	3	1	1	3	3	3	3	5	5	5	3	3	5	5	7	7	7	7	5	5									
	CD-12135A	CD-12135B	CD-12135C	CD-12135D	CD-12135E	S1-12068A	R1-12116A	R5-12084A	S5-12095A	C1-12046A	C1-12046B	C1-12046C	C1-12046D	C1-12046E	Q5-12087A	P5-12090A	P1-12066A	Q1-12107A	S1-12233A	S1-12233B	R1-12309A	R1-12309B	Q1-12305A	Q1-12305B	P1-12240A	P1-12240B	S1-12325A	S1-12325B	R1-12394A	R1-12394B	Q1-12390A	Q1-12390B	P1-12328A	P1-12328B	S1-12421A	S1-12421B	R1-12493A	R1-12493B	Q1-12509A	Q1-12509B	P1-12433A	P1-12433B							
5-year crash data (2010-2014)	0.173	0.142	0.144	0.177	0.151	0.254	0.258	0.217	0.213	0.170	0.149	0.077	0.180	0.183	0.207	0.221	0.226	0.232	3.374	0.034	0.188	0.113	0.088	0.015	0.237	0.124	0.089	0.038	0.183	0.185	0.091	0.041	0.287	0.128	0.087	0.073	0.197	0.104	0.118	0.095	0.203	0.080	0.173	2.97	6.35				
Length of Segment (mi)	5,900	3,300	13,900	10,600	16,400	5,900	2,600	3,300	10,600	2,400	800	7,400	6,600	13,100	6,600	800	1,600	6,500	6,248	8,500	8,500	3,600	3,600	18,800	18,800	2,000	2,000	3,200	3,200	6,700	6,700	15,000	15,000	2,800	2,800	6,700	6,900	6,900	7,600	7,600	11,300	11,300	7,527	6,847					
ADT of Segment	1,021	469	2,002	1,876	2,476	1,499	671	716	2,258	408	119	570	1,188	2,397	1,366	177	362	1,508	21,082	289	1,598	407	317	282	4,456	248	178	122	586	1,240	610	615	4,305	358	244	489	1,320	718	814	722	1,543	904	1,955	22,362	43,444				
Vehicles-Miles per day	372,556	171,039	730,584	684,813	903,886	546,989	244,842	261,377	824,097	148,920	43,508	207,977	433,620	875,015	498,663	64,532	131,984	550,420	7,694,821	105,485	583,270	148,482	115,632	102,930	1,626,294	90,520	64,970	44,384	213,744	452,418	222,541	224,475	1,571,325	130,816	88,914	178,522	481,764	261,924	297,183	263,530	563,122	329,960	713,539	8,875,742	16,570,562				
Vehicles-Miles per year	1.00	0.20	0.40	0.00	0.60	0.60	3.60	2.00	0.60	0.40	0.00	0.60	0.40	1.00	1.60	0.40	1.80	1.60	17	0.20	0.40	5.60	4.60	1.80	0.40	0.20	1.00	0.20	0.40	3.60	0.00	0.00	0.60	0.00	0.60	0.20	0.60	0.20	1.40	1.20	0.20	0.40	0.40	1.00	25	42			
Number of Crashes per Year	0.0000268	0.0000117	0.0000055	0.0000000	0.0000066	0.0000110	0.0000147	0.00000765	0.0000073	0.0000269	0.0000000	0.0000288	0.0000092	0.0000114	0.0000321	0.00000620	0.00001364	0.0000291	0.0000218	0.0000190	0.0000069	0.0000372	0.00003978	0.00001749	0.0000025	0.0000021	0.00001539	0.00000451	0.00000187	0.00000796	0.00000000	0.00000000	0.00000038	0.00000153	0.00000675	0.00000336	0.00000042	0.00000535	0.00000404	0.00000076	0.00000071	0.00000121	0.00000140	0.00000284	0.00000253				
Crashes per Vehicle	2.68	1.17	0.55	0.00	0.66	1.10	14.70	7.65	0.73	2.69	0.00	2.88	0.92	1.14	3.21	6.20	13.64	2.91	2.18	1.90	0.69	37.72	39.78	17.49	0.25	2.21	15.39	4.51	1.87	7.96	0.00	0.00	0.38	1.53	6.75	3.36	0.42	5.35	4.04	0.76	0.71	1.21	1.40	2.84	2.53				
Crashes per 1 MVM per Year																																																	

Note: MVM = Million Vehicles Miles

COLLISION RATE SUMMARY OF 2010-2014 TERMINAL CRASHES PER MILLION VEHICLES PER TERMINAL BY SEGMENT AND CORRIDOR

		Terminals									
5-year crash data (2010- 2014)	Terminal Number	South Section	1	2	3	4	5	6	North Section	Corridor	
		ADT of Terminal		19,800	34,000	17,100	27,200	32,800	22,200	153,100	153,100
		Average Yearly Traffic		7,227,000	12,410,000	6,241,500	9,928,000	11,972,000	8,103,000	55,881,500	55,881,500
		Average Number of Crashes per Year		0.40	0.60	2.40	1.80	1.00	0.40	6.60	6.60
		Crashes per Vehicle per Year		0.00000006	0.00000005	0.00000038	0.00000018	0.00000008	0.00000005	0.00000012	0.00000012
		Crashes per 1 million Vehicles per Year		0.06	0.05	0.38	0.18	0.08	0.05	0.12	0.12

		Terminals									
ISATe model estimates (baseline)	Terminal Number	South Section	1	2	3	4	5	6	North Section	Corridor	
		ADT of Terminal		19,800	34,000	17,100	27,200	32,800	22,200	153,100	153,100
		Average Yearly Traffic		7,227,000	12,410,000	6,241,500	9,928,000	11,972,000	8,103,000	55,881,500	55,881,500
		Average Number of Crashes per Year		1.89	7.45	1.23	4.71	4.98	1.91	22.18	22.18
		Crashes per Vehicle per Year		0.00000026	0.00000060	0.00000020	0.00000047	0.00000042	0.00000024	0.00000040	0.00000040
		Crashes per 1 million Vehicles per Year		0.26	0.60	0.20	0.47	0.42	0.24	0.40	0.40

COLLISION RATE SUMMARY OF 2020 MAINLINE CRASHES PER MVM BY SEGMENT & CORRIDOR

2020 No Build

		Mainline											
ISATe model estimates (2020)	Segment	1	South Section	1	2	3	4	5	6		North Section		Corridor
		Length of Segment (mi)	0.77	0.77	1.16	0.48	0.42	0.55	0.46	0.50		3.58	
	ADT of Segment	122,400	122,400	138,000	130,300	149,700	144,400	159,100	142,500		142,675		139,094
	Vehicles-Miles per day	93,886	93,886	160,216	62,880	63,594	79,721	73,132	70,710		510,253		604,139
	Vehicle-Miles per year	34,268,523	34,268,523	58,478,807	22,951,062	23,211,864	29,098,104	26,693,093	25,809,233		186,242,163		220,510,685
	Number of Crashes per Year	29.38	29.4	51.85	21.40	28.02	27.65	26.52	19.62		175.1		204
	Crashes per Vehicle Mile	0.00000086	0.00000086	0.00000089	0.00000093	0.00000121	0.00000095	0.00000099	0.00000076		0.00000094		0.00000093
	Crashes per 1 MVM per Year	0.86	0.86	0.89	0.93	1.21	0.95	0.99	0.76		0.94		0.93

COLLISION RATE SUMMARY OF 2040 MAINLINE CRASHES PER MVM BY SEGMENT & CORRIDOR

2040 No Build

		Mainline											
ISATe model estimates (2040)	Segment	1	South Section	1	2	3	4	5	6		North Section		Corridor
		Length of Segment (mi)	0.77	0.77	1.16	0.48	0.42	0.55	0.46	0.50		3.58	
	ADT of Segment	135,400	135,400	154,200	147,800	165,800	158,100	181,800	158,100		159,405		155,166
	Vehicles-Miles per day	103,858	103,858	179,024	71,325	70,434	87,284	83,566	78,451		570,084		673,942
	Vehicle-Miles per year	37,908,153	37,908,153	65,343,710	26,033,514	25,708,263	31,858,797	30,501,598	28,634,665		208,080,548		245,988,701
	Number of Crashes per Year	34.70	34.7	62.85	26.51	33.07	32.30	33.93	23.31		212.0		247
	Crashes per Vehicle Mile	0.00000092	0.00000092	0.00000096	0.00000102	0.00000129	0.00000101	0.00000111	0.00000081		0.00000102		0.00000100
	Crashes per 1 MVM per Year	0.92	0.92	0.96	1.02	1.29	1.01	1.11	0.81		1.02		1.00

Note: MVM = Million Vehicles Miles

COLLISION RATE SUMMARY OF 2020 RAMP & C/D ROADWAY CRASHES PER MVM BY SEGMENT & CORRIDOR
2020 No Build

Table with columns for segment (CD1-CD5, R1-R5, C1-C5, PS-PS1, P1-P1, Q1-Q1) and rows for Length of Segment (mi), ADT of Segment, Vehicles-Miles per day, Vehicle-Miles per Year, Number of Crashes per Year, Crashes per Vehicle, and Crashes per 1 MVM per Year. Includes geographic labels like 41st Division Blvd, Berkeley Drive, Thorne Lane, and Gravelly Lake.

COLLISION RATE SUMMARY OF 2040 RAMP & C/D ROADWAY CRASHES PER MVM BY SEGMENT & CORRIDOR
2040 No Build

Table with columns for segment (CD1-CD5, R1-R5, C1-C5, PS-PS1, P1-P1, Q1-Q1) and rows for Length of Segment (mi), ADT of Segment, Vehicles-Miles per day, Vehicle-Miles per Year, Number of Crashes per Year, Crashes per Vehicle, and Crashes per 1 MVM per Year. Includes geographic labels like Ramps & C/D Roadways.

COLLISION RATE SUMMARY OF 2020 MAINLINE CRASHES PER MVM BY SEGMENT & CORRIDOR

2020 Build

		Mainline											North Section	Corridor
Segment		1	South Section	1	2	3	4	5	6	7	8			
ISATe model estimates (2020)	Length of Segment (mi)	0.77	0.77	1.06	0.10	0.48	0.30	0.13	0.55	0.46	0.50		3.58	4.34
	ADT of Segment	122,400	122,400	154,400	143,900	143,900	168,900	168,900	159,200	167,300	146,300		155,692	149,813
	Vehicles-Miles per day	93,886	93,886	164,196	14,090	69,443	49,902	21,816	87,892	76,901	72,596		556,836	650,722
	Vehicle-Miles per year	34,268,523	34,268,523	59,931,617	5,142,926	25,346,568	18,214,330	7,962,931	32,080,458	28,068,853	26,497,479		203,245,162	237,513,685
	Number of Crashes per Year	29.89	29.9	48.18	4.27	21.85	20.92	8.70	28.80	30.64	20.49		183.9	214
	Crashes per Vehicle Mile	0.0000087	0.0000087	0.0000080	0.0000083	0.0000086	0.0000115	0.0000109	0.0000090	0.0000109	0.0000077		0.0000090	0.0000090
	Crashes per 1 MVM per Year	0.87	0.87	0.80	0.83	0.86	1.15	1.09	0.90	1.09	0.77		0.90	0.90

COLLISION RATE SUMMARY OF 2040 MAINLINE CRASHES PER MVM BY SEGMENT & CORRIDOR

2040 Build

		Mainline											North Section	Corridor
Segment		1	South Section	1	2	3	4	5	6	7	8			
ISATe model estimates (2040)	Length of Segment (mi)	0.77	0.77	1.06	0.10	0.48	0.30	0.13	0.55	0.46	0.50		3.58	4.34
	ADT of Segment	153,000	153,000	183,900	173,700	173,700	195,000	195,000	184,100	192,000	166,700		182,248	177,083
	Vehicles-Miles per day	117,358	117,358	195,568	17,008	83,823	57,614	25,188	101,639	88,255	82,719		651,812	769,170
	Vehicle-Miles per year	42,835,653	42,835,653	71,382,283	6,207,966	30,595,544	21,028,977	9,193,438	37,098,068	32,212,909	30,192,275		237,911,459	280,747,112
	Number of Crashes per Year	42.17	42.2	64.69	5.88	30.08	27.16	11.08	36.98	37.20	25.45		238.5	281
	Crashes per Vehicle Mile	0.0000098	0.0000098	0.0000091	0.0000095	0.0000098	0.0000129	0.0000121	0.0000100	0.0000115	0.0000084		0.0000100	0.0000100
	Crashes per 1 MVM per Year	0.98	0.98	0.91	0.95	0.98	1.29	1.21	1.00	1.15	0.84		1.00	1.00

Note: MVM = Million Vehicles Miles

COLLISION RATE SUMMARY OF 2020 RAMP & C/D ROADWAY CRASHES PER MVM BY SEGMENT & CORRIDOR
2020 Build

segment	Ramps & C/D Roadways																																North Section	Corridor											
	CD-12135A	CD-12135B	CD-12135C	CD-12135D	CD-12135E	SI-12068A	RI-12116A	RS-12084A	SS-12095A	CI-12046A	CI-12046B	CI-12046C	CI-12046D	CI-12046E	CS-12087A	PS-12090A	PI-12066A	QI-12107A	SI-12233A	SI-12233B	RI-12309A	RI-12309B	QI-12305A	QI-12305B	PI-12240A	PI-12240B	SI-12325A	SI-12325B	RI-12394A	RI-12394B	QI-12390A	QI-12390B			PI-12328A	PI-12328B	SI-12421A	SI-12421B	RI-12493A	RI-12493B	QI-12509A	QI-12509B	PI-12433A	PI-12433B	
Segment	CD1	CD2	CD3	CD4	CD5	20	21	22	23	C11	C12	C13	C14	C15	29	30	31	32	South Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	North Section	Corridor
Length of Segment (mi)	0.173	0.142	0.144	0.177	0.151	0.257	0.251	0.210	0.180	0.170	0.149	0.077	0.180	0.183	0.178	0.213	0.222	0.241	3.30	0.135	0.152	0.158	0.105	0.146	0.173	0.114	0.188	0.107	0.157	0.212	0.079	0.172	0.241	0.089	0.075	0.073	0.197	0.104	0.118	0.095	0.203	0.138	0.116	3.35	6.65
ADT of Segment	7500	4500	16,800	12,300	17,000	4,700	3,000	4,500	12,300	2,400	7,400	7,400	6,700	13,900	6,700	1,800	7,200	130,100	8,600	8,600	5,000	5,000	24,800	24,800	2,000	2,000	5,000	5,000	4,800	4,800	11,600	11,600	4,700	4,700	8,100	8,100	5,600	6,300	6,300	13,000	13,000	8,270	7,556		
Vehicles-Miles per day	1,298	639	2,419	2,177	2,567	1,208	753	945	2,214	408	104	570	1,206	2,544	1,193	149	400	1,735	22,528	1,161	1,307	790	525	3,621	4,290	228	376	535	785	1,018	379	1,995	2,796	418	353	593	1,556	582	661	599	1,279	1,794	1,508	27,678	50,206
Vehicle-Miles per Year	473,588	233,235	883,008	794,642	936,955	440,884	274,845	344,925	808,110	148,920	38,070	207,977	440,190	928,451	435,299	54,422	145,854	633,348	8,222,720	423,765	477,128	288,350	191,625	1,321,592	1,565,996	83,220	137,240	195,275	286,525	371,424	138,408	728,248	1,020,394	152,680	128,663	215,825	582,431	212,576	241,192	218,453	466,799	654,810	550,420	10,102,616	18,325,336
Number of Crashes per Year	0.21	0.11	0.55	0.40	0.46	0.85	0.72	2.11	2.58	0.07	0.02	0.31	0.18	0.40	1.66	0.67	0.48	0.92	12.7	0.43	0.30	0.21	0.40	1.47	0.89	0.08	0.26	0.17	0.19	0.29	0.20	0.59	0.54	0.13	0.18	0.24	0.42	0.28	0.27	0.34	0.33	0.47	8.9	22	
Crashes per Vehicle	0.0000045	0.0000048	0.0000063	0.0000050	0.0000049	0.0000193	0.0000263	0.0000613	0.0000319	0.0000050	0.0000060	0.0000148	0.0000042	0.0000043	0.0000182	0.0000128	0.0000331	0.0000145	0.0000155	0.0000103	0.0000064	0.0000073	0.0000207	0.0000111	0.0000057	0.0000091	0.0000192	0.0000086	0.0000067	0.0000079	0.0000145	0.0000081	0.0000053	0.0000084	0.0000143	0.0000111	0.0000073	0.0000073	0.0000116	0.0000125	0.0000072	0.0000050	0.0000086	0.0000088	0.0000118
Crashes per 1 MVM per Year	0.45	0.48	0.63	0.50	0.49	1.93	2.63	6.13	3.19	0.50	0.60	1.48	0.42	0.43	3.82	12.28	3.31	1.45	1.55	1.03	0.64	0.73	2.07	1.11	0.57	0.91	1.92	0.86	0.67	0.79	1.45	0.81	0.53	0.84	1.43	1.11	0.73	0.73	1.16	1.25	0.72	0.50	0.86	0.88	1.18

COLLISION RATE SUMMARY OF 2010-2014 RAMP & C/D ROADWAY CRASHES PER MVM BY SEGMENT & CORRIDOR

COLLISION RATE SUMMARY OF 2040 RAMP & C/D ROADWAY CRASHES PER MVM BY SEGMENT & CORRIDOR
2040 Build

segment	Ramps & C/D Roadways																																North Section	Corridor											
	CD1	CD2	CD3	CD4	CD5	20	21	22	23	C11	C12	C13	C14	C15	29	30	31	32	South Section	1	2	3	4	5	6	7	8	9	10	11	12	13			14	15	16	17	18	19	20	21	22	23	24
Segment	CD1	CD2	CD3	CD4	CD5	20	21	22	23	C11	C12	C13	C14	C15	29	30	31	32	South Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	North Section	Corridor
Length of Segment (mi)	0.173	0.142	0.144	0.177	0.151	0.257	0.251	0.210	0.180	0.170	0.149	0.077	0.180	0.183	0.178	0.213	0.222	0.241	3.30	0.135	0.152	0.158	0.105	0.146	0.173	0.114	0.188	0.107	0.157	0.212	0.079	0.172	0.241	0.089	0.075	0.073	0.197	0.104	0.118	0.095	0.203	0.138	0.116	3.23	6.53
ADT of Segment	5,300	3,300	13,700	10,400	14,300	3,900	2,100	3,300	10,400	2,800	800	6,500	5,700	12,200	5,700	800	2,000	6,500	109,700	7,900	7,900	3,800	3,800	23,200	23,200	2,300	2,300	4,700	4,700	3,000	3,000	14,500	14,500	6,200	6,200	8,700	8,700	3,600	3,600	5,600	5,600	16,600	16,600	8,539	7,136
Vehicles-Miles per day	917	469	1,973	1,841	2,159	1,002	527	693	1,872	476	119	501	1,026	2,233	1,015	170	444	1,567	19,003	1,067	1,201	600	399	3,387	4,014	262	432	503	738	636	237	2,494	3,495	552	465	635	425	532	1,137	2,291	1,926	27,589	46,592		
Vehicle-Miles per Year	334,669	171,039	720,072	671,892	788,145	365,840	192,392	252,945	683,280	173,740	43,508	182,683	374,490	814,899	370,329	62,196	162,060	571,773	6,935,949	389,273	438,292	219,146	145,635	1,236,328	1,464,964	95,703	157,826	183,559	269,334	232,140	86,505	910,310	1,275,493	201,407	169,725	231,812	625,574	136,656	155,052	194,180	414,932	836,142	702,844	10,069,985	17,005,934
Number of Crashes per Year	0.14	0.09	0.48	0.33	0.38	0.78	0.46	1.71	2.27	0.07	0.03	0.30	0.14	0.28	1.34	0.86	0.34	0.69	11	0.36	0.25	0.18	0.33	1.40	0.85	0.08	0.27	0.16	0.19	0.23	0.16	0.73	0.65	0.19	0.27	0.27	0.48	0.31	0.20	0.26	0.32	0.20	0.69	8.8	20
Crashes per Vehicle	0.0000043	0.0000050	0.0000067	0.0000050	0.0000048	0.0000214	0.0000242	0.0000674	0.0000332	0.0000040	0.0000069	0.0000164	0.0000037	0.0000035	0.0000162	0.0000180	0.0000211	0.0000120	0.0000154	0.0000091	0.0000057	0.0000081	0.0000227	0.0000113	0.0000058	0.0000082	0.0000173	0.0000089	0.0000069	0.0000100	0.0000184	0.0000080	0.0000051	0.0000092	0.0000157	0.0000118	0.0000076	0.0000083	0.0000132	0.0000135	0.0000078	0.0000024	0.0000098	0.0000088	0.0000115
Crashes per 1 MVM per Year	0.43	0.50	0.67	0.50	0.48	2.14	2.42	6.74	3.32	0.40	0.69	1.64	0.37	0.35	3.82	13.80	2.11	1.20	1.54	0.91	0.57	0.81	2.27	1.13	0.58	0.82	1.73	0.89	0.69	1.00	1.84	0.80	0.51	0.92	1.57	1.18	0.76	0.83	1.32	1.35	0.78	0.24	0.98	0.88	1.15

COLLISION RATE SUMMARY OF 2020 TERMINAL CRASHES PER MILLION VEHICLES PER TERMINAL BY SEGMENT AND CORRIDOR

2020 Build

		Terminals											
		1	2	3	South Section	1	2	3	4	5	6	North Section	Corridor
ISATe model estimates (2020)	Terminal Number												
	ADT of Terminal					23,400	40,200	24,900	32,800	33,400	21,900	176,600	176,600
	Average Yearly Traffic					8,541,000	14,673,000	9,088,500	11,972,000	12,191,000	7,993,500	64,459,000	64,459,000
	Average Number of Crashes per Year					1.91	8.44	3.93	4.35	5.26	0.93	24.82	24.82
	Crashes per Vehicle per Year					0.0000022	0.0000058	0.0000043	0.0000036	0.0000043	0.0000012	0.0000038	0.0000038
	Crashes per 1 million Vehicles per Year					0.22	0.58	0.43	0.36	0.43	0.12	0.38	0.38
Crash Modification Factor (Multi-lane)		0.34				2.68	13.06	4.21	5.43				

Summary of Enhanced Interchange Safety Analysis Tool (ISATe) Model Outputs

Combined North and South results

Crash Type	Crash Type Category	2014 Base Model			2020 No Build			2020 Build			2040 No Build			2040 Build		
		total	PDO	Injury	total	PDO	Injury	total	PDO	Injury	total	PDO	Injury	total	PDO	Injury
Multiple vehicle	Head-on crashes:	1.2	0.5	0.7	1.4	0.6	0.8	1.5	0.7	0.8	1.7	0.8	1.0	1.9	0.8	1.0
	Right-angle crashes:	13.9	8.9	5.0	16.1	10.2	5.8	17.6	11.2	6.3	18.9	12.1	6.8	20.4	13.0	7.4
	Rear-end crashes:	193.7	132.5	61.1	225.6	155.6	70.0	226.9	156.5	70.3	280.1	195.6	84.6	303.1	212.0	91.0
	Sideswipe crashes:	63.8	50.2	13.6	74.4	58.9	15.5	74.3	58.9	15.4	93.1	74.2	18.9	100.6	80.3	20.3
	Other multiple-vehicle crashes:	7.3	4.8	2.5	8.5	5.6	2.8	8.6	5.8	2.9	10.5	7.0	3.4	11.4	7.7	3.7
	Total multiple-vehicle crashes:	280.0	197.0	83.0	326.0	231.0	95.0	328.8	233.1	95.7	404.3	289.7	114.7	437.3	313.9	123.5
Single vehicle	Crashes with animal:	1.3	1.2	0.1	1.4	1.2	0.1	1.6	1.5	0.1	1.4	1.3	0.1	1.7	1.5	0.1
	Crashes with fixed object:	73.9	49.6	24.3	76.3	51.0	25.2	87.4	59.3	28.1	79.5	53.0	26.5	92.0	61.9	30.1
	Crashes with other object:	9.2	7.8	1.4	9.6	8.1	1.5	11.0	9.4	1.7	10.1	8.5	1.6	11.7	9.9	1.8
	Crashes with parked vehicle:	1.5	1.0	0.5	1.6	1.1	0.5	1.8	1.2	0.5	1.6	1.1	0.5	1.9	1.3	0.6
	Other single-vehicle crashes	14.9	7.3	7.5	15.4	7.5	7.8	17.5	8.8	8.7	16.0	7.8	8.2	18.4	9.1	9.3
	Total single-vehicle crashes:	100.7	66.9	33.8	104.1	68.9	35.2	119.2	80.1	39.1	108.7	71.7	36.9	125.6	83.7	41.9
TOTALS		380.7	263.9	116.8	430.1	299.9	130.2	448.0	313.2	134.8	513.0	361.4	151.6	562.9	397.6	165.4

Summary of Safety Analysis Model Outputs

North - North of Main Gate to Gravelly Lake Dr

Crash Type	Crash Type Category	2014 Base Model			2020 No Build			2020 Build			2040 No Build			2040 Build		
		total	Injury	PDO	total	Injury	PDO	total	Injury	PDO	total	Injury	PDO	total	Injury	PDO
North	Freeway segments, crashes:	189.1	56.4	132.6	215.9	63.4	152.5	226.5	68.0	158.5	260.2	74.6	185.6	289.4	84.1	205.3
	Ramp segments, crashes:	6.7	2.8	3.9	6.8	2.8	4.0	9.3	3.8	5.5	7.5	3.1	4.3	9.4	3.8	5.6
	Crossroad ramp terminals, crashes:	22.2	6.9	15.3	24.0	7.5	16.5	24.8	3.5	21.3	25.3	8.1	17.3	25.2	3.6	21.6
	Total N Section crashes:	217.9	66.1	151.8	246.8	73.8	173.0	260.7	75.2	185.4	293.0	85.8	207.2	323.9	91.4	232.5

South - Center Dr through Main Gate

South	Freeway segments, crashes:	130.2	39.4	90.8	147.7	44.1	103.6	150.0	46.5	103.5	183.0	53.2	129.8	201.4	60.8	140.7
	Ramp segments, crashes:	19.7	7.7	12.0	19.3	7.6	11.7	20.5	8.0	12.5	17.8	7.1	10.6	20.6	8.1	12.5
	Crossroad ramp terminals, crashes:	12.9	3.6	9.3	16.3	4.7	11.6	16.8	5.0	11.8	19.2	5.5	13.7	17.0	5.0	12.0
	Total S Section crashes:	162.8	50.7	112.1	183.3	56.4	126.9	187.4	59.6	127.8	220.1	65.8	154.2	239.0	73.9	165.1

All	Freeway segments, crashes:	319.3	95.8	223.5	363.6	107.5	256.1	376.5	114.5	262.0	443.2	127.8	315.4	490.8	144.8	346.0
	Ramp segments, crashes:	26.3	10.4	15.9	26.1	10.4	15.7	29.9	11.8	18.0	25.2	10.2	15.0	30.0	11.9	18.0
	Crossroad ramp terminals, crashes:	35.1	10.5	24.5	40.3	12.2	28.1	41.6	8.5	33.2	44.6	13.6	31.0	42.2	8.6	33.6
	Total Crashes:	380.7	116.8	263.9	430.1	130.2	299.9	448.0	134.8	313.2	513.0	151.6	361.4	562.9	165.4	397.6
Combined North and South results		380.7	116.8	263.9	430.1	130.2	299.9	448.0	134.8	313.2	513.0	151.6	361.4	562.9	165.4	397.6

Output Summary								
General Information								
Project description:	JBLM - I-5 from MP 121.29 to MP 125.64 (north)							
Analyst:	R. Meredith	Date:	4/15/2016	Area type:	Urban			
First year of analysis:	2014							
Last year of analysis:	2014							
Crash Data Description								
Freeway segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp terminals	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Estimated Crash Statistics								
Crashes for Entire Facility		Total	K	A	B	C	PDO	
Estimated number of crashes during Study Period, crashes:		217.9	1.0	2.8	15.9	46.4	151.8	
Estimated average crash freq. during Study Period, crashes/yr:		217.9	1.0	2.8	15.9	46.4	151.8	
Crashes by Facility Component		Nbr. Sites	Total	K	A	B	C	PDO
Freeway segments, crashes:		7	189.1	0.9	2.4	13.7	39.4	132.6
Ramp segments, crashes:		24	6.7	0.1	0.2	1.0	1.5	3.9
Crossroad ramp terminals, crashes:		6	22.2	0.0	0.2	1.2	5.5	15.3
Crashes for Entire Facility by Year		Year	Total	K	A	B	C	PDO
Estimated number of crashes during the Study Period, crashes:		2014	217.9	1.0	2.8	15.9	46.4	151.8
		2015						
		2016						
		2017						
		2018						
		2019						
		2020						
		2021						
		2022						
		2023						
		2024						
		2025						
		2026						
		2027						
		2028						
		2029						
		2030						
		2031						
		2032						
		2033						
2034								
2035								
2036								
2037								
Distribution of Crashes for Entire Facility								
Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period						
		Total	K	A	B	C	PDO	
Multiple vehicle	Head-on crashes:	0.7	0.0	0.0	0.1	0.3	0.3	
	Right-angle crashes:	8.3	0.0	0.1	0.6	2.3	5.2	
	Rear-end crashes:	116.5	0.5	1.5	8.6	25.9	79.9	
	Sideswipe crashes:	38.4	0.1	0.3	2.0	5.7	30.3	
	Other multiple-vehicle crashes	4.2	0.0	0.1	0.3	1.0	2.8	

	Total multiple-vehicle crashes	168.2	0.7	2.0	11.7	35.2	118.6
Single vehicle	Crashes with animal:	0.7	0.0	0.0	0.0	0.0	0.6
	Crashes with fixed object:	36.1	0.2	0.5	3.1	8.1	24.2
	Crashes with other object:	5.1	0.0	0.0	0.2	0.5	4.3
	Crashes with parked vehicle:	0.7	0.0	0.0	0.1	0.2	0.5
	Other single-vehicle crashes	7.2	0.1	0.2	0.9	2.5	3.5
	Total single-vehicle crashes:	49.8	0.3	0.8	4.3	11.3	33.2
Total crashes:		217.9	1.0	2.8	15.9	46.4	151.8

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 121.29 to MP 125.64 (north)				
Analyst:	R. Meredith	Date:	4/15/2016	Area type: Urban
First year of analysis:	2014	Total length of freeway segments for Study Period (mi): 4.348		
Last year of analysis:	2014			

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	6	1.161	MP 121.29 to MP 122.45
2	6	0.483	MP 122.45 to MP 122.93
3	6	0.425	MP 122.93 to MP 123.36
4	6	0.552	MP 123.36 to MP 123.91
5	7	0.460	MP 123.91 to MP 124.37
6	8	0.496	MP 124.37 to MP 124.87
7	8	0.771	MP 124.87 to MP 125.64
8	0	0.000	0
9	0	0.000	0
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	S1-12233A	21	Q1-12509A
2	S1-12233B	22	Q1-12509B
3	R1-12309A	23	P1-12433A
4	R1-12309B	24	P1-12433B
5	P1-12240A	25	0
6	P1-12240B	26	0
7	Q1-12305A	27	0
8	Q1-12305B	28	0
9	S1-12325A	29	0
10	S1-12325B	30	0
11	R1-12394A	31	0
12	R1-12394B	32	0
13	Q1-12390A	33	0
14	Q1-12390B	34	0
15	P1-12328A	35	0
16	P1-12328B	36	0
17	S1-12421A	37	0
18	S1-12421B	38	0
19	R1-12493A	39	0
20	R1-12493B	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	D4	Signal	Berk-W	
2	D4	Signal	Berk-E	
3	D4	Signal	Thorne-W	
4	D4	Signal	Thorne-E	
5	D4	Signal	Grav-W	
6	D4	Signal	Grav-E	

Output Summary								
General Information								
Project description:	JBLM - I-5 from MP 117.41 to MP 121.29 (South)							
Analyst:	R Meredith	Date:	4/15/2016	Area type:	Urban			
First year of analysis:	2014							
Last year of analysis:	2014							
Crash Data Description								
Freeway segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp terminals	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Estimated Crash Statistics								
Crashes for Entire Facility		Total	K	A	B	C	PDO	
Estimated number of crashes during Study Period, crashes:		162.8	0.9	2.5	13.5	33.8	112.1	
Estimated average crash freq. during Study Period, crashes/yr:		162.8	0.9	2.5	13.5	33.8	112.1	
Crashes by Facility Component		Nbr. Sites	Total	K	A	B	C	PDO
Freeway segments, crashes:		6	130.2	0.7	1.8	10.0	26.9	90.8
Ramp segments, crashes:		32	19.7	0.2	0.5	3.0	4.0	12.0
Crossroad ramp terminals, crashes:		3	12.9	0.0	0.1	0.6	2.9	9.3
Crashes for Entire Facility by Year		Year	Total	K	A	B	C	PDO
Estimated number of crashes during the Study Period, crashes:		2014	162.8	0.9	2.5	13.5	33.8	112.1
		2015						
		2016						
		2017						
		2018						
		2019						
		2020						
		2021						
		2022						
		2023						
		2024						
		2025						
		2026						
		2027						
		2028						
		2029						
		2030						
		2031						
		2032						
		2033						
2034								
2035								
2036								
2037								
Distribution of Crashes for Entire Facility								
Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period						
		Total	K	A	B	C	PDO	
Multiple vehicle	Head-on crashes:	0.5	0.0	0.0	0.1	0.2	0.2	
	Right-angle crashes:	5.6	0.0	0.1	0.4	1.5	3.6	
	Rear-end crashes:	77.1	0.4	1.1	6.1	16.9	52.6	
	Sideswipe crashes:	25.5	0.1	0.3	1.4	3.8	19.9	
	Other multiple-vehicle crashes	3.1	0.0	0.1	0.3	0.7	2.0	

	Total multiple-vehicle crashes	111.8	0.5	1.5	8.3	23.1	78.4
Single vehicle	Crashes with animal:	0.6	0.0	0.0	0.0	0.0	0.6
	Crashes with fixed object:	37.8	0.2	0.7	3.7	7.7	25.4
	Crashes with other object:	4.1	0.0	0.0	0.2	0.4	3.5
	Crashes with parked vehicle:	0.7	0.0	0.0	0.1	0.1	0.5
	Other single-vehicle crashes	7.7	0.1	0.2	1.2	2.4	3.8
	Total single-vehicle crashes:	51.0	0.3	1.0	5.2	10.8	33.7
Total crashes:		162.8	0.9	2.5	13.5	33.8	112.1

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 117.41 to MP 121.29 (South)				
Analyst:	R Meredith	Date:	4/15/2016	Area type: Urban
First year of analysis:	2014	Total length of freeway segments for Study Period (mi): 1.977		
Last year of analysis:	2014			

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	0	0.000	0
2	0	0.000	0
3	0	0.000	0
4	0	0.000	0
5	6	1.209	MP 119.31 to MP 120.52
6	6	0.768	MP 120.52 to MP 121.29
7	0	0.000	0
8	0	0.000	0
9	0	0.000	0
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	0	21	R1-12116A
2	0	22	R5-12084A
3	0	23	S5-12095A
4	0	24	CI-12046A
5	0	25	CI-12046B
6	0	26	CI-12046C
7	0	27	CI-12046D
8	0	28	CI-12046E
9	0	29	Q5-12087A
10	0	30	P5-12090A
11	0	31	P1-12066A
12	0	32	Q1-12107A
13	0	33	0
14	0	34	0
15	CD-12135A	35	0
16	CD-12135B	36	0
17	CD-12135C	37	0
18	CD-12135D	38	0
19	CD-12135E	39	0
20	S1-12068A	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	

Output Summary								
General Information								
Project description:	JBLM - I-5 from MP 121.29 to MP 125.64 (north)							
Analyst:	R. Meredith	Date:	4/15/2016	Area type:	Urban			
First year of analysis:	2020							
Last year of analysis:	2020							
Crash Data Description								
Freeway segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp terminals	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Estimated Crash Statistics								
Crashes for Entire Facility		Total	K	A	B	C	PDO	
Estimated number of crashes during Study Period, crashes:		246.8	1.0	3.0	17.1	52.6	173.0	
Estimated average crash freq. during Study Period, crashes/yr:		246.8	1.0	3.0	17.1	52.6	173.0	
Crashes by Facility Component		Nbr. Sites	Total	K	A	B	C	PDO
Freeway segments, crashes:		7	215.9	0.9	2.6	14.8	45.1	152.5
Ramp segments, crashes:		24	6.8	0.1	0.2	1.0	1.5	4.0
Crossroad ramp terminals, crashes:		6	24.0	0.0	0.2	1.3	6.0	16.5
Crashes for Entire Facility by Year		Year	Total	K	A	B	C	PDO
Estimated number of crashes during the Study Period, crashes:		2020	246.8	1.0	3.0	17.1	52.6	173.0
		2021						
		2022						
		2023						
		2024						
		2025						
		2026						
		2027						
		2028						
		2029						
		2030						
		2031						
		2032						
		2033						
		2034						
		2035						
		2036						
		2037						
		2038						
		2039						
2040								
2041								
2042								
2043								
Distribution of Crashes for Entire Facility								
Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period						
		Total	K	A	B	C	PDO	
Multiple vehicle	Head-on crashes:	0.8	0.0	0.0	0.1	0.3	0.4	
	Right-angle crashes:	9.3	0.0	0.1	0.7	2.6	5.8	
	Rear-end crashes:	135.1	0.6	1.7	9.5	30.0	93.5	
	Sideswipe crashes:	44.6	0.1	0.4	2.1	6.6	35.4	
	Other multiple-vehicle crashes	4.9	0.0	0.1	0.4	1.1	3.3	

	Total multiple-vehicle crashes	194.8	0.7	2.2	12.8	40.6	138.4
Single vehicle	Crashes with animal:	0.7	0.0	0.0	0.0	0.0	0.7
	Crashes with fixed object:	37.7	0.2	0.6	3.1	8.6	25.2
	Crashes with other object:	5.3	0.0	0.0	0.2	0.6	4.5
	Crashes with parked vehicle:	0.8	0.0	0.0	0.1	0.2	0.5
	Other single-vehicle crashes	7.5	0.1	0.2	1.0	2.6	3.7
	Total single-vehicle crashes:	52.0	0.3	0.8	4.3	12.0	34.6
Total crashes:		246.8	1.0	3.0	17.1	52.6	173.0

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 121.29 to MP 125.64 (north)				
Analyst:	R. Meredith	Date:	4/15/2016	Area type: Urban
First year of analysis:	2020	Total length of freeway segments for Study Period (mi): 4.348		
Last year of analysis:	2020			

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	6	1.161	MP 121.29 to MP 122.45
2	6	0.483	#N/A
3	6	0.425	MP 122.93 to MP 123.36
4	6	0.552	MP 123.36 to MP 123.91
5	7	0.460	#N/A
6	8	0.496	MP 124.37 to MP 124.87
7	8	0.771	MP 124.87 to MP 125.64
8	0	0.000	0
9	0	0.000	0
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	S1-12233A	21	Q1-12509A
2	S1-12233B	22	Q1-12509B
3	R1-12309A	23	P1-12433A
4	R1-12309B	24	P1-12433B
5	P1-12240A	25	0
6	P1-12240B	26	0
7	Q1-12305A	27	0
8	Q1-12305B	28	0
9	S1-12325A	29	0
10	S1-12325B	30	0
11	R1-12394A	31	0
12	R1-12394B	32	0
13	Q1-12390A	33	0
14	Q1-12390B	34	0
15	P1-12328A	35	0
16	P1-12328B	36	0
17	S1-12421A	37	0
18	S1-12421B	38	0
19	R1-12493A	39	0
20	R1-12493B	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	#N/A	Signal	Berk-W	
2	#N/A	Signal	Berk-E	
3	#N/A	Signal	Thorne-W	
4	#N/A	Signal	Thorne-E	
5	#N/A	Signal	Grav-W	
6	#N/A	Signal	Grav-E	

Output Summary								
General Information								
Project description:	JBLM - I-5 from MP 117.41 to MP 121.29 (South)							
Analyst:	R Meredith	Date:	4/15/2016	Area type:	Urban			
First year of analysis:	2020							
Last year of analysis:	2020							
Crash Data Description								
Freeway segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp terminals	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Estimated Crash Statistics								
Crashes for Entire Facility		Total	K	A	B	C	PDO	
Estimated number of crashes during Study Period, crashes:		183.3	0.9	2.6	14.4	38.4	126.9	
Estimated average crash freq. during Study Period, crashes/yr:		183.3	0.9	2.6	14.4	38.4	126.9	
Crashes by Facility Component		Nbr. Sites	Total	K	A	B	C	PDO
Freeway segments, crashes:		6	147.7	0.7	2.0	10.7	30.7	103.6
Ramp segments, crashes:		32	19.3	0.2	0.5	2.9	3.9	11.7
Crossroad ramp terminals, crashes:		3	16.3	0.0	0.1	0.8	3.8	11.6
Crashes for Entire Facility by Year		Year	Total	K	A	B	C	PDO
Estimated number of crashes during the Study Period, crashes:		2020	183.3	0.9	2.6	14.4	38.4	126.9
		2021						
		2022						
		2023						
		2024						
		2025						
		2026						
		2027						
		2028						
		2029						
		2030						
		2031						
		2032						
		2033						
		2034						
		2035						
		2036						
		2037						
		2038						
		2039						
2040								
2041								
2042								
2043								
Distribution of Crashes for Entire Facility								
Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period						
		Total	K	A	B	C	PDO	
Multiple vehicle	Head-on crashes:	0.6	0.0	0.0	0.1	0.2	0.3	
	Right-angle crashes:	6.8	0.0	0.1	0.5	1.8	4.4	
	Rear-end crashes:	90.4	0.4	1.2	6.8	19.9	62.1	
	Sideswipe crashes:	29.8	0.1	0.3	1.5	4.4	23.5	
	Other multiple-vehicle crashes	3.6	0.0	0.1	0.3	0.8	2.3	

	Total multiple-vehicle crashes	131.2	0.6	1.7	9.2	27.2	92.6
Single vehicle	Crashes with animal:	0.6	0.0	0.0	0.0	0.0	0.6
	Crashes with fixed object:	38.6	0.2	0.7	3.7	8.1	25.8
	Crashes with other object:	4.3	0.0	0.0	0.2	0.5	3.6
	Crashes with parked vehicle:	0.8	0.0	0.0	0.1	0.2	0.5
	Other single-vehicle crashes	7.9	0.1	0.2	1.2	2.5	3.8
	Total single-vehicle crashes:	52.1	0.3	1.0	5.2	11.3	34.3
Total crashes:		183.3	0.9	2.6	14.4	38.4	126.9

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 117.41 to MP 121.29 (South)				
Analyst:	R Meredith	Date:	4/15/2016	Area type: Urban
First year of analysis:	2020	Total length of freeway segments for Study Period (mi): 3.874		
Last year of analysis:	2020			

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	6	0.531	#N/A
2	7	0.363	MP 117.94 to MP 118.30
3	7	0.415	MP 118.30 to MP 118.72
4	6	0.588	MP 118.72 to MP 119.31
5	6	1.209	MP 119.31 to MP 120.52
6	6	0.768	MP 120.52 to MP 121.29
7	0	0.000	0
8	0	0.000	0
9	0	0.000	0
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	S1-11741A	21	R1-12116A
2	R1-11840A	22	R5-12084A
3	R1-11840B	23	S5-12095A
4	Q1-11831A	24	CI-12046A
5	Q1-11831B	25	CI-12046B
6	P5-11778A	26	CI-12046C
7	S1-11864A	27	CI-12046D
8	S1-11864B	28	CI-12046E
9	R1-11933A	29	Q5-12087A
10	R1-11933B	30	P5-12090A
11	Q1-11938A	31	#N/A
12	Q1-11938B	32	#N/A
13	P1-11867A	33	0
14	P1-11867B	34	0
15	CD-12135A	35	0
16	CD-12135B	36	0
17	CD-12135C	37	0
18	CD-12135D	38	0
19	CD-12135E	39	0
20	S1-12068A	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	D4	One stop	Center-W	
2	D4	#N/A	St-Dup-W	
3	D4	#N/A	ST-Dup-E	
4	0	0	0	
5	0	0	0	
6	0	0	0	

Output Summary									
General Information									
Project description:	JBLM - I-5 from MP 121.29 to MP 125.64 (north)								
Analyst:	R. Meredith	Date:	5/31/2016	Area type:	Urban				
First year of analysis:	2020								
Last year of analysis:	2020								
Crash Data Description									
Freeway segments	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Ramp segments	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Ramp terminals	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Estimated Crash Statistics									
Crashes for Entire Facility		Total	K	A	B	C	PDO		
Estimated number of crashes during Study Period, crashes:		267.4	1.2	3.6	19.9	57.3	185.4		
Estimated average crash freq. during Study Period, crashes/yr:		267.4	1.2	3.6	19.9	57.3	185.4		
Crashes by Facility Component		Nbr. Sites	Total	K	A	B	C	PDO	
Freeway segments, crashes:		9	226.5	1.1	3.0	16.8	47.1	158.5	
Ramp segments, crashes:		24	9.3	0.1	0.3	1.3	2.1	5.5	
Crossroad ramp terminals, crashes:		6	31.6	0.0	0.3	1.8	8.1	21.3	
Crashes for Entire Facility by Year		Year	Total	K	A	B	C	PDO	
Estimated number of crashes during the Study Period, crashes:		2020	267.4	1.2	3.6	19.9	57.3	185.4	
		2021							
		2022							
		2023							
		2024							
		2025							
		2026							
		2027							
		2028							
		2029							
		2030							
		2031							
		2032							
		2033							
		2034							
		2035							
		2036							
2037									
2038									
2039									
2040									
2041									
2042									
2043									
Distribution of Crashes for Entire Facility									
Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period							
		Total	K	A	B	C	PDO		
Multiple vehicle	Head-on crashes:	0.9	0.0	0.0	0.1	0.4	0.4		
	Right-angle crashes:	11.2	0.0	0.1	0.9	3.2	6.9		
	Rear-end crashes:	143.6	0.6	1.9	10.9	32.2	98.0		
	Sideswipe crashes:	46.7	0.2	0.4	2.4	6.9	36.8		
	Other multiple-vehicle crashes	5.3	0.0	0.1	0.4	1.2	3.5		

	Total multiple-vehicle crashes	207.7	0.9	2.6	14.7	43.8	145.7
Single vehicle	Crashes with animal:	0.8	0.0	0.0	0.0	0.0	0.8
	Crashes with fixed object:	43.4	0.2	0.7	3.7	9.7	29.1
	Crashes with other object:	5.9	0.0	0.0	0.2	0.6	5.0
	Crashes with parked vehicle:	0.9	0.0	0.0	0.1	0.2	0.6
	Other single-vehicle crashes	8.7	0.1	0.2	1.1	3.0	4.3
	Total single-vehicle crashes:	59.7	0.3	1.0	5.2	13.5	39.7
Total crashes:		267.4	1.2	3.6	19.9	57.3	185.4

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 121.29 to MP 125.64 (north)				
Analyst:	R. Meredith	Date:	5/31/2016	Area type: Urban
First year of analysis:	2020	Total length of freeway segments for Study Period (mi): 4.348		
Last year of analysis:	2020			

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	8	1.063	MP 121.29 to MP 122.35
2	8	0.098	MP 122.35 to MP 122.45
3	8	0.483	#N/A
4	8	0.295	MP 122.93 to MP 123.22
5	8	0.129	MP 123.22 to MP 123.35
6	8	0.552	MP 123.35 to MP 123.91
7	8	0.460	#N/A
8	8	0.496	#N/A
9	8	0.771	MP 124.87 to MP 125.64
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	S1-12233A	21	Q1-12509A
2	S1-12233B	22	Q1-12509B
3	R1-12309A	23	P1-12433A
4	R1-12309B	24	P1-12433B
5	Q1-12305A	25	0
6	Q1-12305B	26	0
7	P1-12240A	27	0
8	P1-12240B	28	0
9	S1-12325A	29	0
10	S1-12325B	30	0
11	R1-12394A	31	0
12	R1-12394B	32	0
13	Q1-12390A	33	0
14	Q1-12390B	34	0
15	P1-12328A	35	0
16	P1-12328B	36	0
17	S1-12421A	37	0
18	S1-12421B	38	0
19	R1-12493A	39	0
20	R1-12493B	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	#N/A	Signal	Berk-W	
2	#N/A	Signal	Berk-E	
3	#N/A	Signal	Thorne-W	
4	#N/A	Signal	Thorne-E	
5	#N/A	Signal	Grav-W	
6	#N/A	Signal	Grav-E	

Output Summary									
General Information									
Project description:	JBLM - I-5 from MP 121.29 to MP 125.64 (north)								
Analyst:	R. Meredith	Date:	3/1/2016	Area type:	Urban				
First year of analysis:	2020								
Last year of analysis:	2020								
Crash Data Description									
Freeway segments	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Ramp segments	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Ramp terminals	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Estimated Crash Statistics									
Crashes for Entire Facility		Total	K	A	B	C	PDO		
Estimated number of crashes during Study Period, crashes:		267.4	1.2	3.6	19.9	57.3	185.4		
Estimated average crash freq. during Study Period, crashes/yr:		267.4	1.2	3.6	19.9	57.3	185.4		
Crashes by Facility Component		Nbr. Sites	Total	K	A	B	C	PDO	
Freeway segments, crashes:		9.0	226.5	1.1	3.0	16.8	47.1	158.5	
Ramp segments, crashes:		24.0	9.3	0.1	0.3	1.3	2.1	5.5	
Crossroad ramp terminals, crashes:		6.0	24.8	0.0	0.1	0.6	2.8	21.3	
Crashes for Entire Facility by Year		Year	Total	K	A	B	C	PDO	
Estimated number of crashes during the Study Period, crashes: CMF Factor 0.34		2020	260.7	1.2	3.4	18.7	52.0	185.4	
		2021							
		2022							
		2023							
		2024							
		2025							
		2026							
		2027							
		2028							
		2029							
		2030							
		2031							
		2032							
		2033							
		2034							
		2035							
		2036							
		2037							
		2038							
		2039							
2040									
2041									
2042									
2043									
Distribution of Crashes for Entire Facility									
Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period							
		Total	K	A	B	C	PDO		
Multiple vehicle	Head-on crashes:	0.9	0.0	0.0	0.1	0.3	0.4		
	Right-angle crashes:	10.8	0.0	0.1	0.8	2.9	6.9		
	Rear-end crashes:	139.8	0.6	1.8	10.2	29.2	98.0		
	Sideswipe crashes:	45.9	0.2	0.4	2.3	6.2	36.8		
	Other multiple-vehicle crashes	5.1	0.0	0.1	0.4	1.1	3.5		

	Total multiple-vehicle crashes	202.6	0.9	2.5	13.8	39.8	145.7
Single vehicle	Crashes with animal:	0.8	0.0	0.0	0.0	0.0	0.8
	Crashes with fixed object:	42.2	0.2	0.6	3.5	8.8	29.1
	Crashes with other object:	5.9	0.0	0.0	0.2	0.6	5.0
	Crashes with parked vehicle:	0.9	0.0	0.0	0.1	0.2	0.6
	Other single-vehicle crashes	8.3	0.1	0.2	1.1	2.7	4.3
	Total single-vehicle crashes:	58.1	0.3	0.9	4.9	12.2	39.7
Total crashes:		260.7	1.2	3.4	18.7	52.0	185.4

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 121.29 to MP 125.64 (north)				
Analyst:	R. Meredith	Date:	3/1/2016	Area type: Urban
First year of analysis:	2020	Total length of freeway segments for Study Period (mi): 4.348		
Last year of analysis:	2020			

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	8	1.063	MP 121.29 to MP 122.35
2	8	0.098	MP 122.35 to MP 122.45
3	8	0.483	MP 122.45 to MP 122.93
4	8	0.295	MP 122.93 to MP 123.22
5	8	0.129	MP 123.22 to MP 123.35
6	8	0.552	MP 123.35 to MP 123.91
7	9	0.460	MP 123.91 to MP 124.37
8	8	0.496	MP 124.37 to MP 124.87
9	8	0.771	MP 124.87 to MP 125.64
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	S1-12233A	21	Q1-12509A
2	S1-12233B	22	Q1-12509B
3	R1-12309A	23	P1-12433A
4	R1-12309B	24	P1-12433B
5	Q1-12305A	25	0
6	Q1-12305B	26	0
7	P1-12240A	27	0
8	P1-12240B	28	0
9	S1-12325A	29	0
10	S1-12325B	30	0
11	R1-12394A	31	0
12	R1-12394B	32	0
13	Q1-12390A	33	0
14	Q1-12390B	34	0
15	P1-12328A	35	0
16	P1-12328B	36	0
17	S1-12421A	37	0
18	S1-12421B	38	0
19	R1-12493A	39	0
20	R1-12493B	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	D4	Signal	Berk-W	
2	D4	Signal	Berk-E	
3	D4	Signal	Thorne-W	
4	D4	Signal	Thorne-E	
5	D4	Signal	Grav-W	
6	D4	Signal	Grav-E	

Output Summary								
General Information								
Project description:	JBLM - I-5 from MP 117.41 to MP 121.29 (South)							
Analyst:	#N/A	Date:	5/31/2016	Area type:	Urban			
First year of analysis:	2020							
Last year of analysis:	2020							
Crash Data Description								
Freeway segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp terminals	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Estimated Crash Statistics								
Crashes for Entire Facility		Total	K	A	B	C	PDO	
Estimated number of crashes during Study Period, crashes:		187.4	1.1	3.0	16.4	39.0	127.8	
Estimated average crash freq. during Study Period, crashes/yr:		187.4	1.1	3.0	16.4	39.0	127.8	
Crashes by Facility Component		Nbr. Sites	Total	K	A	B	C	PDO
Freeway segments, crashes:		6	150.0	0.9	2.2	12.5	30.9	103.5
Ramp segments, crashes:		32	20.5	0.2	0.6	3.1	4.1	12.5
Crossroad ramp terminals, crashes:		3	16.8	0.0	0.1	0.8	4.0	11.8
Crashes for Entire Facility by Year		Year	Total	K	A	B	C	PDO
Estimated number of crashes during the Study Period, crashes:		2020	187.4	1.1	3.0	16.4	39.0	127.8
		2021						
		2022						
		2023						
		2024						
		2025						
		2026						
		2027						
		2028						
		2029						
		2030						
		2031						
		2032						
		2033						
		2034						
		2035						
		2036						
		2037						
		2038						
		2039						
2040								
2041								
2042								
2043								
Distribution of Crashes for Entire Facility								
Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period						
		Total	K	A	B	C	PDO	
Multiple vehicle	Head-on crashes:	0.6	0.0	0.0	0.1	0.2	0.3	
	Right-angle crashes:	6.8	0.0	0.1	0.5	1.8	4.3	
	Rear-end crashes:	87.0	0.5	1.3	7.4	19.2	58.6	
	Sideswipe crashes:	28.3	0.1	0.3	1.7	4.2	22.0	
	Other multiple-vehicle crashes	3.5	0.0	0.1	0.3	0.8	2.2	

	Total multiple-vehicle crashes	126.2	0.7	1.8	10.1	26.3	87.4
Single vehicle	Crashes with animal:	0.8	0.0	0.0	0.0	0.0	0.7
	Crashes with fixed object:	45.2	0.3	0.9	4.6	9.2	30.2
	Crashes with other object:	5.2	0.0	0.0	0.2	0.5	4.4
	Crashes with parked vehicle:	0.9	0.0	0.0	0.1	0.2	0.6
	Other single-vehicle crashes	9.2	0.1	0.3	1.4	2.8	4.5
	Total single-vehicle crashes:	61.2	0.4	1.2	6.4	12.7	40.4
Total crashes:		187.4	1.1	3.0	16.4	39.0	127.8

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 117.41 to MP 121.29 (South)					
Analyst:	#N/A	Date:	5/31/2016	Area type:	Urban
First year of analysis:	2020	Total length of freeway segments for Study Period (mi): 3.874			
Last year of analysis:	2020				

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	6	0.531	MP 117.41 to MP 117.94
2	7	0.363	MP 117.94 to MP 118.30
3	7	0.415	MP 118.30 to MP 118.72
4	7	0.588	MP 118.72 to MP 119.31
5	8	1.209	MP 119.31 to MP 120.52
6	8	0.768	MP 120.52 to MP 121.29
7	0	0.000	0
8	0	0.000	0
9	0	0.000	0
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	S1-11741A	21	R1-12116A
2	R1-11840A	22	R5-12084A
3	R1-11840B	23	S5-12095A
4	Q1-11831A	24	CI-12046A
5	Q1-11831B	25	CI-12046B
6	P5-11778A	26	CI-12046C
7	S1-11864A	27	CI-12046D
8	S1-11864B	28	CI-12046E
9	R1-11933A	29	Q5-12087A
10	R1-11933B	30	P5-12090A
11	Q1-11938A	31	P1-12066A
12	Q1-11938B	32	Q1-12107A
13	P1-11867A	33	0
14	P1-11867B	34	0
15	CD-12135A	35	0
16	CD-12135B	36	0
17	CD-12135C	37	0
18	CD-12135D	38	0
19	CD-12135E	39	0
20	S1-12068A	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	D4	One stop	Center-W	
2	D4	#N/A	St-Dup-W	
3	D4	#N/A	ST-Dup-E	
4	0	0	0	
5	0	0	0	
6	0	0	0	

Output Summary								
General Information								
Project description: JBLM - I-5 from MP 121.29 to MP 125.64 (north)								
Analyst:	R. Meredith	Date:	4/15/2016	Area type:	Urban			
First year of analysis:	2040							
Last year of analysis:	2040							
Crash Data Description								
Freeway segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp terminals	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Estimated Crash Statistics								
Crashes for Entire Facility		Total	K	A	B	C	PDO	
Estimated number of crashes during Study Period, crashes:		293.0	1.1	3.4	19.1	62.2	207.2	
Estimated average crash freq. during Study Period, crashes/yr:		293.0	1.1	3.4	19.1	62.2	207.2	
Crashes by Facility Component		Nbr. Sites	Total	K	A	B	C	PDO
Freeway segments, crashes:		7	260.2	1.1	2.9	16.6	54.1	185.6
Ramp segments, crashes:		24	7.5	0.1	0.2	1.1	1.7	4.3
Crossroad ramp terminals, crashes:		6	25.3	0.0	0.2	1.4	6.4	17.3
Crashes for Entire Facility by Year		Year	Total	K	A	B	C	PDO
Estimated number of crashes during the Study Period, crashes:		2040	293.0	1.1	3.4	19.1	62.2	207.2
		2041						
		2042						
		2043						
		2044						
		2045						
		2046						
		2047						
		2048						
		2049						
		2050						
		2051						
		2052						
		2053						
		2054						
		2055						
		2056						
2057								
2058								
2059								
2060								
2061								
2062								
2063								
Distribution of Crashes for Entire Facility								
Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period						
		Total	K	A	B	C	PDO	
Multiple vehicle	Head-on crashes:	1.0	0.0	0.0	0.1	0.4	0.4	
	Right-angle crashes:	10.4	0.0	0.1	0.8	3.0	6.6	
	Rear-end crashes:	165.0	0.6	1.9	10.8	36.2	115.5	
	Sideswipe crashes:	55.0	0.2	0.4	2.5	8.0	43.9	
	Other multiple-vehicle crashes	6.0	0.0	0.1	0.4	1.4	4.1	

	Total multiple-vehicle crashes:	237.4	0.9	2.6	14.6	49.0	170.4
Single vehicle	Crashes with animal:	0.8	0.0	0.0	0.0	0.0	0.7
	Crashes with fixed object:	40.3	0.2	0.6	3.2	9.4	26.8
	Crashes with other object:	5.6	0.0	0.0	0.2	0.6	4.8
	Crashes with parked vehicle:	0.8	0.0	0.0	0.1	0.2	0.6
	Other single-vehicle crashes	8.0	0.1	0.2	1.0	2.9	3.9
	Total single-vehicle crashes:	55.6	0.3	0.8	4.5	13.2	36.8
Total crashes:		293.0	1.1	3.4	19.1	62.2	207.2

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 121.29 to MP 125.64 (north)				
Analyst:	R. Meredith	Date:	4/15/2016	Area type: Urban
First year of analysis:	2040	Total length of freeway segments for Study Period (mi): 4.348		
Last year of analysis:	2040			

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	6	1.161	MP 121.29 to MP 122.45
2	6	0.483	#N/A
3	6	0.425	MP 122.93 to MP 123.36
4	6	0.552	MP 123.36 to MP 123.91
5	7	0.460	#N/A
6	8	0.496	MP 124.37 to MP 124.87
7	8	0.771	MP 124.87 to MP 125.64
8	0	0.000	0
9	0	0.000	0
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	S1-12233A	21	Q1-12509A
2	S1-12233B	22	Q1-12509B
3	R1-12309A	23	P1-12433A
4	R1-12309B	24	P1-12433B
5	P1-12240A	25	0
6	P1-12240B	26	0
7	Q1-12305A	27	0
8	Q1-12305B	28	0
9	S1-12325A	29	0
10	S1-12325B	30	0
11	R1-12394A	31	0
12	R1-12394B	32	0
13	Q1-12390A	33	0
14	Q1-12390B	34	0
15	P1-12328A	35	0
16	P1-12328B	36	0
17	S1-12421A	37	0
18	S1-12421B	38	0
19	R1-12493A	39	0
20	R1-12493B	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	#N/A	Signal	Berk-W	
2	#N/A	Signal	Berk-E	
3	#N/A	Signal	Thorne-W	
4	#N/A	Signal	Thorne-E	
5	#N/A	Signal	Grav-W	
6	#N/A	Signal	Grav-E	

Output Summary

General Information

Project description:	JBLM - I-5 from MP 117.41 to MP 121.29 (South)					
Analyst:	#N/A	Date:	4/15/2016	Area type:	Urban	
First year of analysis:	2040					
Last year of analysis:	2040					

Crash Data Description

Freeway segments	Segment crash data available?	No	First year of crash data:	
	Project-level crash data available?	No	Last year of crash data:	
Ramp segments	Segment crash data available?	No	First year of crash data:	
	Project-level crash data available?	No	Last year of crash data:	
Ramp terminals	Segment crash data available?	No	First year of crash data:	
	Project-level crash data available?	No	Last year of crash data:	

Estimated Crash Statistics

Crashes for Entire Facility	Total	K	A	B	C	PDO
Estimated number of crashes during Study Period, crashes:	220.1	1.0	2.9	15.8	46.2	154.2
Estimated average crash freq. during Study Period, crashes/yr:	220.1	1.0	2.9	15.8	46.2	154.2

Crashes by Facility Component	Nbr. Sites	Total	K	A	B	C	PDO
Freeway segments, crashes:	6	183.0	0.8	2.2	12.1	38.0	129.8
Ramp segments, crashes:	32	17.8	0.2	0.5	2.7	3.8	10.6
Crossroad ramp terminals, crashes:	3	19.2	0.0	0.2	0.9	4.4	13.7

Crashes for Entire Facility by Year	Year	Total	K	A	B	C	PDO
Estimated number of crashes during the Study Period, crashes:	2040	220.1	1.0	2.9	15.8	46.2	154.2
	2041						
	2042						
	2043						
	2044						
	2045						
	2046						
	2047						
	2048						
	2049						
	2050						
	2051						
	2052						
	2053						
	2054						
	2055						
	2056						
	2057						
	2058						
	2059						
2060							
2061							
2062							
2063							

Distribution of Crashes for Entire Facility

Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period					
		Total	K	A	B	C	PDO
Multiple vehicle	Head-on crashes:	0.8	0.0	0.0	0.1	0.3	0.3
	Right-angle crashes:	8.5	0.0	0.1	0.6	2.2	5.5
	Rear-end crashes:	115.1	0.5	1.4	7.9	25.1	80.1
	Sideswipe crashes:	38.1	0.1	0.3	1.8	5.6	30.3
	Other multiple-vehicle crashes	4.5	0.0	0.1	0.4	1.1	3.0

	Total multiple-vehicle crashes	166.9	0.7	1.9	10.8	34.3	119.2
Single vehicle	Crashes with animal:	0.7	0.0	0.0	0.0	0.0	0.6
	Crashes with fixed object:	39.2	0.2	0.7	3.6	8.5	26.1
	Crashes with other object:	4.5	0.0	0.0	0.2	0.5	3.8
	Crashes with parked vehicle:	0.8	0.0	0.0	0.1	0.2	0.5
	Other single-vehicle crashes	8.0	0.1	0.2	1.1	2.6	3.9
	Total single-vehicle crashes:	53.1	0.3	0.9	5.0	11.9	35.0
Total crashes:		220.1	1.0	2.9	15.8	46.2	154.2

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 117.41 to MP 121.29 (South)				
Analyst:	#N/A	Date:	4/15/2016	Area type: Urban
First year of analysis:	2040	Total length of freeway segments for Study Period (mi): 3.873		
Last year of analysis:	2040			

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	6	0.531	MP 117.41 to MP 117.94
2	7	0.363	MP 117.94 to MP 118.30
3	7	0.415	MP 118.30 to MP 118.72
4	6	0.588	MP 118.72 to MP 119.31
5	6	1.209	MP 119.31 to MP 120.52
6	6	0.767	MP 120.52 to MP 121.29
7	0	0.000	0
8	0	0.000	0
9	0	0.000	0
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	S1-11741A	21	R1-12116A
2	R1-11840A	22	R5-12084A
3	R1-11840B	23	S5-12095A
4	Q1-11831A	24	CI-12046A
5	Q1-11831B	25	CI-12046B
6	P5-11778A	26	CI-12046C
7	S1-11864A	27	CI-12046D
8	S1-11864B	28	CI-12046E
9	R1-11933A	29	Q5-12087A
10	R1-11933B	30	P5-12090A
11	Q1-11938A	31	P1-12066A
12	Q1-11938B	32	Q1-12107A
13	P1-11867A	33	0
14	P1-11867B	34	0
15	CD-12135A	35	0
16	CD-12135B	36	0
17	CD-12135C	37	0
18	CD-12135D	38	0
19	CD-12135E	39	0
20	S1-12068A	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	D4	One stop	#N/A	
2	D4	#N/A	#N/A	
3	D4	#N/A	#N/A	
4	0	0	0	
5	0	0	0	
6	0	0	0	

Output Summary									
General Information									
Project description:	JBLM - I-5 from MP 121.29 to MP 125.64 (north)								
Analyst:	R. Meredith	Date:	5/31/2016	Area type:	Urban				
First year of analysis:	2040								
Last year of analysis:	2040								
Crash Data Description									
Freeway segments	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Ramp segments	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Ramp terminals	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Estimated Crash Statistics									
Crashes for Entire Facility		Total	K	A	B	C	PDO		
Estimated number of crashes during Study Period, crashes:		330.8	1.4	4.0	22.4	70.5	232.5		
Estimated average crash freq. during Study Period, crashes/yr:		330.8	1.4	4.0	22.4	70.5	232.5		
Crashes by Facility Component		Nbr. Sites	Total	K	A	B	C	PDO	
Freeway segments, crashes:		9	289.4	1.3	3.5	19.3	60.1	205.3	
Ramp segments, crashes:		24	9.4	0.1	0.3	1.3	2.1	5.6	
Crossroad ramp terminals, crashes:		6	32.1	0.0	0.3	1.8	8.3	21.6	
Crashes for Entire Facility by Year		Year	Total	K	A	B	C	PDO	
Estimated number of crashes during the Study Period, crashes:		2040	330.8	1.4	4.0	22.4	70.5	232.5	
		2041							
		2042							
		2043							
		2044							
		2045							
		2046							
		2047							
		2048							
		2049							
		2050							
		2051							
		2052							
		2053							
		2054							
		2055							
		2056							
2057									
2058									
2059									
2060									
2061									
2062									
2063									
Distribution of Crashes for Entire Facility									
Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period							
		Total	K	A	B	C	PDO		
Multiple vehicle	Head-on crashes:	1.1	0.0	0.0	0.1	0.5	0.5		
	Right-angle crashes:	12.6	0.0	0.2	0.9	3.6	7.8		
	Rear-end crashes:	186.3	0.8	2.3	12.8	41.2	129.2		
	Sideswipe crashes:	61.5	0.2	0.5	2.9	9.0	48.9		
	Other multiple-vehicle crashes	6.8	0.0	0.1	0.5	1.6	4.6		

	Total multiple-vehicle crashes:	268.4	1.0	3.1	17.3	55.9	191.0
Single vehicle	Crashes with animal:	0.9	0.0	0.0	0.0	0.0	0.8
	Crashes with fixed object:	45.4	0.2	0.7	3.7	10.4	30.3
	Crashes with other object:	6.2	0.0	0.0	0.2	0.7	5.3
	Crashes with parked vehicle:	0.9	0.0	0.0	0.1	0.2	0.6
	Other single-vehicle crashes:	9.0	0.1	0.2	1.1	3.2	4.4
	Total single-vehicle crashes:	62.5	0.3	0.9	5.1	14.6	41.5
Total crashes:		330.8	1.4	4.0	22.4	70.5	232.5

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 121.29 to MP 125.64 (north)				
Analyst:	R. Meredith	Date:	5/31/2016	Area type: Urban
First year of analysis:	2040	Total length of freeway segments for Study Period (mi): 4.348		
Last year of analysis:	2040			

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	8	1.063	MP 121.29 to MP 122.35
2	8	0.098	MP 122.35 to MP 122.45
3	8	0.483	#N/A
4	8	0.295	MP 122.93 to MP 123.22
5	8	0.129	MP 123.22 to MP 123.35
6	8	0.552	MP 123.35 to MP 123.91
7	8	0.460	#N/A
8	8	0.496	#N/A
9	8	0.771	MP 124.87 to MP 125.64
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	S1-12233A	21	Q1-12509A
2	S1-12233B	22	Q1-12509B
3	R1-12309A	23	P1-12433A
4	R1-12309B	24	P1-12433B
5	Q1-12305A	25	0
6	Q1-12305B	26	0
7	P1-12240A	27	0
8	P1-12240B	28	0
9	S1-12325A	29	0
10	S1-12325B	30	0
11	R1-12394A	31	0
12	R1-12394B	32	0
13	Q1-12390A	33	0
14	Q1-12390B	34	0
15	P1-12328A	35	0
16	P1-12328B	36	0
17	S1-12421A	37	0
18	S1-12421B	38	0
19	R1-12493A	39	0
20	R1-12493B	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	#N/A	Signal	Berk-W	
2	#N/A	Signal	Berk-E	
3	#N/A	Signal	Thorne-W	
4	#N/A	Signal	Thorne-E	
5	#N/A	Signal	Grav-W	
6	#N/A	Signal	Grav-E	

Output Summary									
General Information									
Project description:	JBLM - I-5 from MP 121.29 to MP 125.64 (north)								
Analyst:	R. Meredith	Date:	3/1/2016	Area type:	Urban				
First year of analysis:	2040								
Last year of analysis:	2040								
Crash Data Description									
Freeway segments	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Ramp segments	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Ramp terminals	Segment crash data available?	No	First year of crash data:						
	Project-level crash data available?	No	Last year of crash data:						
Estimated Crash Statistics									
Crashes for Entire Facility		Total	K	A	B	C	PDO		
Estimated number of crashes during Study Period, crashes:		330.8	1.4	4.0	22.4	70.5	232.5		
Estimated average crash freq. during Study Period, crashes/yr:		330.8	1.4	4.0	22.4	70.5	232.5		
Crashes by Facility Component		Nbr. Sites	Total	K	A	B	C	PDO	
Freeway segments, crashes:		9	289.4	1.3	3.5	19.3	60.1	205.3	
Ramp segments, crashes:		24	9.4	0.1	0.3	1.3	2.1	5.6	
Crossroad ramp terminals, crashes:		6	25.2	0.0	0.1	0.6	2.8	21.6	
Crashes for Entire Facility by Year		Year	Total	K	A	B	C	PDO	
Estimated number of crashes during the Study Period, crashes: CMF Factor 0.34		2040	323.9	1.4	3.8	21.2	65.0	232.5	
		2041							
		2042							
		2043							
		2044							
		2045							
		2046							
		2047							
		2048							
		2049							
		2050							
		2051							
		2052							
		2053							
		2054							
		2055							
		2056							
		2057							
		2058							
		2059							
2060									
2061									
2062									
2063									
Distribution of Crashes for Entire Facility									
Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period							
		Total	K	A	B	C	PDO		
Multiple vehicle	Head-on crashes:	1.1	0.0	0.0	0.1	0.4	0.5		
	Right-angle crashes:	12.2	0.0	0.2	0.9	3.3	7.8		
	Rear-end crashes:	182.3	0.8	2.2	12.1	38.0	129.2		
	Sideswipe crashes:	60.6	0.2	0.5	2.7	8.3	48.9		
	Other multiple-vehicle crashes	6.7	0.0	0.1	0.5	1.5	4.6		

	Total multiple-vehicle crashes	262.9	1.0	2.9	16.4	51.6	191.0
Single vehicle	Crashes with animal:	0.9	0.0	0.0	0.0	0.0	0.8
	Crashes with fixed object:	44.3	0.2	0.6	3.5	9.6	30.3
	Crashes with other object:	6.2	0.0	0.0	0.2	0.6	5.3
	Crashes with parked vehicle:	0.9	0.0	0.0	0.1	0.2	0.6
	Other single-vehicle crashes	8.7	0.1	0.2	1.1	2.9	4.4
	Total single-vehicle crashes:	61.0	0.3	0.9	4.9	13.4	41.5
Total crashes:		323.9	1.4	3.8	21.2	65.0	232.5

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 121.29 to MP 125.64 (north)				
Analyst:	R. Meredith	Date:	3/1/2016	Area type: Urban
First year of analysis:	2040	Total length of freeway segments for Study Period (mi): 4.348		
Last year of analysis:	2040			

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	8	1.063	MP 121.29 to MP 122.35
2	8	0.098	MP 122.35 to MP 122.45
3	8	0.483	MP 122.45 to MP 122.93
4	8	0.295	MP 122.93 to MP 123.22
5	8	0.129	MP 123.22 to MP 123.35
6	8	0.552	MP 123.35 to MP 123.91
7	9	0.460	MP 123.91 to MP 124.37
8	8	0.496	MP 124.37 to MP 124.87
9	8	0.771	MP 124.87 to MP 125.64
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	S1-12233A	21	Q1-12509A
2	S1-12233B	22	Q1-12509B
3	R1-12309A	23	P1-12433A
4	R1-12309B	24	P1-12433B
5	Q1-12305A	25	0
6	Q1-12305B	26	0
7	P1-12240A	27	0
8	P1-12240B	28	0
9	S1-12325A	29	0
10	S1-12325B	30	0
11	R1-12394A	31	0
12	R1-12394B	32	0
13	Q1-12390A	33	0
14	Q1-12390B	34	0
15	P1-12328A	35	0
16	P1-12328B	36	0
17	S1-12421A	37	0
18	S1-12421B	38	0
19	R1-12493A	39	0
20	R1-12493B	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	D4	Signal	Berk-W	
2	D4	Signal	Berk-E	
3	D4	Signal	Thorne-W	
4	D4	Signal	Thorne-E	
5	D4	Signal	Grav-W	
6	D4	Signal	Grav-E	

Output Summary								
General Information								
Project description:	JBLM - I-5 from MP 117.41 to MP 121.29 (South)							
Analyst:	R Meredith	Date:	5/31/2016	Area type:	Urban			
First year of analysis:	2040							
Last year of analysis:	2040							
Crash Data Description								
Freeway segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp segments	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Ramp terminals	Segment crash data available?	No	First year of crash data:					
	Project-level crash data available?	No	Last year of crash data:					
Estimated Crash Statistics								
Crashes for Entire Facility		Total	K	A	B	C	PDO	
Estimated number of crashes during Study Period, crashes:		239.0	1.3	3.4	18.7	50.5	165.1	
Estimated average crash freq. during Study Period, crashes/yr:		239.0	1.3	3.4	18.7	50.5	165.1	
Crashes by Facility Component		Nbr. Sites	Total	K	A	B	C	PDO
Freeway segments, crashes:		6	201.4	1.1	2.7	14.8	42.2	140.7
Ramp segments, crashes:		32	20.6	0.2	0.6	3.1	4.2	12.5
Crossroad ramp terminals, crashes:		3	17.0	0.0	0.1	0.9	4.0	12.0
Crashes for Entire Facility by Year		Year	Total	K	A	B	C	PDO
Estimated number of crashes during the Study Period, crashes:		2040	239.0	1.3	3.4	18.7	50.5	165.1
		2041						
		2042						
		2043						
		2044						
		2045						
		2046						
		2047						
		2048						
		2049						
		2050						
		2051						
		2052						
		2053						
		2054						
		2055						
		2056						
2057								
2058								
2059								
2060								
2061								
2062								
2063								
Distribution of Crashes for Entire Facility								
Crash Type	Crash Type Category	Estimated Number of Crashes During the Study Period						
		Total	K	A	B	C	PDO	
Multiple vehicle	Head-on crashes:	0.8	0.0	0.0	0.1	0.3	0.3	
	Right-angle crashes:	8.2	0.0	0.1	0.6	2.2	5.2	
	Rear-end crashes:	120.8	0.6	1.6	9.1	26.6	82.8	
	Sideswipe crashes:	40.0	0.2	0.4	2.1	6.0	31.4	
	Other multiple-vehicle crashes	4.7	0.0	0.1	0.4	1.1	3.1	

	Total multiple-vehicle crashes	174.4	0.9	2.2	12.3	36.2	122.9
Single vehicle	Crashes with animal:	0.8	0.0	0.0	0.0	0.1	0.7
	Crashes with fixed object:	47.6	0.3	0.9	4.6	10.3	31.5
	Crashes with other object:	5.5	0.0	0.0	0.2	0.6	4.6
	Crashes with parked vehicle:	1.0	0.0	0.0	0.1	0.2	0.7
	Other single-vehicle crashes	9.7	0.1	0.3	1.5	3.2	4.7
	Total single-vehicle crashes:	64.6	0.4	1.2	6.4	14.3	42.2
Total crashes:		239.0	1.3	3.4	18.7	50.5	165.1

Evaluation Site Summary

General Information

Project description: JBLM - I-5 from MP 117.41 to MP 121.29 (South)				
Analyst:	R Meredith	Date:	5/31/2016	Area type: Urban
First year of analysis:	2040	Total length of freeway segments for Study Period (mi): 3.874		
Last year of analysis:	2040			

Site Description

Freeway Segments

Number	Lanes	Study Period Length (mi)	Study Period Description
1	6	0.531	MP 117.41 to MP 117.94
2	7	0.363	MP 117.94 to MP 118.30
3	7	0.415	MP 118.30 to MP 118.72
4	7	0.588	MP 118.72 to MP 119.31
5	8	1.209	MP 119.31 to MP 120.52
6	8	0.768	MP 120.52 to MP 121.29
7	0	0.000	0
8	0	0.000	0
9	0	0.000	0
10	0	0.000	0
11	0	0.000	0
12	0	0.000	0
13	0	0.000	0
14	0	0.000	0
15	0	0.000	0
16	0	0.000	0
17	0	0.000	0
18	0	0.000	0
19	0	0.000	0
20	0	0.000	0

Ramp Segments

Number	Study Period Description	Number	Study Period Description
1	S1-11741A	21	R1-12116A
2	R1-11840A	22	R5-12084A
3	R1-11840B	23	S5-12095A
4	Q1-11831A	24	CI-12046A
5	Q1-11831B	25	CI-12046B
6	P5-11778A	26	CI-12046C
7	S1-11864A	27	CI-12046D
8	S1-11864B	28	CI-12046E
9	R1-11933A	29	Q5-12087A
10	R1-11933B	30	P5-12090A
11	Q1-11938A	31	P1-12066A
12	Q1-11938B	32	Q1-12107A
13	P1-11867A	33	0
14	P1-11867B	34	0
15	CD-12135A	35	0
16	CD-12135B	36	0
17	CD-12135C	37	0
18	CD-12135D	38	0
19	CD-12135E	39	0
20	S1-12068A	40	0

Crossroad Ramp Terminals

Number	Config.	Control	Study Period Description	
1	D4	One stop	Center-W	
2	D4	Signal	St-Dup-W	
3	D4	Signal	ST-Dup-E	
4	0	0	0	
5	0	0	0	
6	0	0	0	