

Metro Orange Line Grade Separations EIR
PM Peak Hour Results Summary - Vissim Model

TURNING MOVEMENT OPERATIONS SUMMARY

#	Intersection	Movement	Existing Conditions					2025 Without Project Conditions					2025 With Reduced Project Conditions (6 minute headway)					2025 With Mitigations Conditions (6 minute headway)					
			Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	
1-1	Chandler North/MOL Busway/Chandler Sou	NBL	166	33.0	C	55	245	170	34.4	C	58	253	169	71.3	E	64	249						
		NBT	107	28.1	C	55	245	110	28.0	C	58	253	109	59.7	E	64	249	287	71.1	E	84	257	
		NBR	141	29.5	C	55	245	144	30.5	C	58	253	139	67.8	E	64	249	140	95.2	F	84	257	
		SBL	25	56.4	E	37	244	26	59.1	E	38	247	25	135.6	F	83	341						
		SBT	194	26.7	C	37	244	201	26.9	C	38	247	192	57.2	E	83	341	222	65.9	E	105	343	
		SBR	79	19.4	B	38	245	81	19.1	B	39	248	81	41.7	D	84	343	84	54.9	D	107	344	
		WBL-North	17	48.8	D	14	83	18	47.0	D	15	85	19	91.3	F	30	123	19	66.8	E	52	221	
		WBT-North	77	44.6	D	14	83	79	45.1	D	15	85	88	89.3	F	30	123	341	48.0	D	52	221	
		WBR-North	17	4.0	A	0	32	17	3.6	A	0	32	17	4.2	A	0	40	18	4.5	A	0	34	
		WBL-South	113	45.4	D	28	169	116	47.7	D	30	184	115	58.7	E	39	246	117	38.2	D	24	194	
		WBR-South	57	58.3	E	47	200	58	59.2	E	49	210	59	95.2	F	83	275	155	72.9	E	54	251	
		EBL-South	51	112.2	F	30	243	53	103.3	F	29	276	51	47.4	D	11	97	63	45.8	D	12	160	
		EBT-South	439	33.8	C	49	286	451	31.6	C	46	307	391	30.1	C	37	333	448	47.4	D	67	337	
		EBR-South	90	7.4	A	1	77	90	7.6	A	2	110	81	7.9	A	2	82	97	10.9	B	2	75	
	Total	1,667	37.0	D	-	-	1,710	36.8	D	-	-	1,632	55.2	E	-	-	1,991	55.4	E	-	-		
2-1	Chandler Boulevard/Colfax Avenue/MOL B	NBL	73	68.8	E	106	417	74	69.4	E	103	401	79	96.4	F	255	538	78	93.8	F	244	540	
		NBT	447	37.9	D	106	417	458	35.9	D	103	401	464	62.3	E	255	538	457	60.4	E	244	540	
		NBR	61	33.5	C	108	419	63	30.5	C	106	404	70	56.0	E	257	541	68	55.6	E	246	543	
		SBL	33	73.7	E	79	417	34	75.4	E	77	395	36	132.9	F	226	529	38	137.4	F	238	526	
		SBT	297	38.8	D	79	417	305	36.3	D	77	395	311	83.3	F	226	529	312	88.5	F	238	526	
		SBR	55	30.2	C	80	418	56	30.5	C	78	397	61	88.0	F	226	529	60	86.3	F	238	526	
		EBL	75	78.5	E	32	138	75	78.1	E	32	146	64	100.6	F	35	179	78	97.0	F	42	178	
		EBT	496	8.2	A	13	242	508	8.7	A	13	243	420	20.5	C	29	327	499	17.1	B	28	312	
		EBR	109	7.8	A	14	245	114	8.1	A	14	246	98	15.0	B	30	331	112	14.0	B	30	316	
		WBL	28	50.4	D	7	71	29	44.0	D	6	70	34	75.2	E	13	95	32	60.7	E	10	89	
		WBT	357	31.5	C	39	217	370	34.3	C	43	239	351	21.9	C	26	201	350	18.1	B	20	246	
		WBR	90	22.2	C	44	227	92	23.1	C	48	249	95	13.6	B	31	211	93	11.8	B	24	257	
			Total	2,120	30.4	C	-	-	2,177	30.1	C	-	-	2,081	49.4	D	-	-	2,176	46.9	D	-	-
		3-1	Chandler Boulevard/Laurel Canyon Bouleva	NBL	120	70.4	E	47	329	123	69.6	E	46	340	127	166.8	F	148	538	125	130.5	F	91
NBT	983			32.8	C	105	433	1,002	30.5	C	100	427	1,035	77.3	E	317	543	1,031	75.4	E	306	541	
NBR	44			29.3	C	108	438	45	26.7	C	102	432	50	69.9	E	320	547	48	75.1	E	309	545	
SBL	54			61.4	E	17	136	56	61.5	E	18	113	53	61.8	E	16	107	52	59.7	E	15	110	
SBT	594			33.1	C	65	302	610	30.1	C	60	299	617	32.7	C	67	329	614	32.6	C	66	323	
SBR	74			27.4	C	66	303	77	25.2	C	60	299	89	28.3	C	70	334	85	26.8	C	69	327	
EBL	125			79.0	E	56	215	130	77.2	E	56	207	79	768.2	F	1,119	1,602	111	454.2	F	479	1,095	
EBT	542			16.6	B	29	249	553	16.5	B	29	310	445	58.0	E	1,086	1,603	554	33.8	C	267	1,025	
EBR	93			14.6	B	23	293	97	13.6	B	55	356	75	52.5	D	1,117	1,612	98	27.5	C	296	1,063	
WBL	56			69.4	E	20	99	58	70.0	E	21	104	56	91.9	F	28	135	57	152.6	F	49	182	
WBT	399			21.7	C	28	244	408	22.6	C	30	241	403	20.1	C	26	197	401	22.7	C	30	223	
WBR	72			16.2	B	26	246	74	16.7	B	28	242	69	14.7	B	27	198	70	17.2	B	31	224	
	Total			3,156	31.9	C	-	-	3,233	30.6	C	-	-	3,098	74.9	E	-	-	3,245	65.1	E	-	-
4-1	Chandler Boulevard/Corteen Place/MOL Bu			NBL	13	52.2	D	9	97	14	47.0	D	8	96	15	80.3	F	26	202	15	46.3	D	10
		NBT	13	53.4	D	9	97	13	48.1	D	8	96	14	80.0	F	26	202	12	49.0	D	10	108	
		NBR	36	15.7	B	10	99	38	14.6	B	9	98	41	86.4	F	27	203	42	17.5	B	11	110	
		SBL	15	52.4	D	9	91	15	51.3	D	8	89	16	101.5	F	10	88	14	53.0	D	8	96	
		SBT	12	51.7	D	9	91	12	46.6	D	8	89	11	52.7	D	10	88	13	46.7	D	8	96	
		SBR	25	15.8	B	10	97	26	15.7	B	10	95	29	19.7	B	11	94	26	14.4	B	9	102	
		EBL	27	58.0	E	8	103	27	56.4	E	8	99	29	128.8	F	21	212	30	82.2	F	14	122	
		EBT	709	10.4	B	20	315	724	11.7	B	24	308	629	92.2	F	310	894	741	12.0	B	24	337	
		EBR	39	8.6	A	21	318	40	10.8	B	24	311	36	70.4	E	312	897	40	10.0	A	25	341	
		WBL	10	54.3	D	2	38	10	49.6	D	2	39	9	93.6	F	4	36	11	73.8	E	5	45	
		WBT	608	2.7	A	4	105	623	2.8	A	4	122	639	7.4	A	13	165	628	9.0	A	15	212	
		WBR	39	2.4	A	3	111	40	3.0	A	4	128	39	6.7	A	15	173	39	6.6	A	17	221	
			Total	1,545	9.9	A	-	-	1,580	10.4	B	-	-	1,506	49.8	D	-	-	1,611	13.5	B	-	-

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5-1	Chandler Boulevard/Whitsett Avenue/MOL	NBL	65	81.1	F	27	207	68	73.3	E	26	170	70	82.1	F	22	186	68	80.3	F	22	181
		NBT	584	48.1	D	97	396	602	40.7	D	82	367	592	57.5	E	170	417	595	52.6	D	152	420
		NBR	79	43.1	D	99	399	81	35.4	D	84	371	79	66.9	E	170	417	86	33.6	C	152	420
		SBL	43	60.5	E	13	89	43	63.1	E	14	95	45	105.0	F	17	98	48	80.6	F	18	117
		SBT	333	41.6	D	46	204	340	38.2	D	43	195	327	47.4	D	76	336	337	47.5	D	78	311
		SBR	61	29.6	C	49	209	63	26.2	C	46	200	65	20.2	C	80	341	64	21.9	C	82	316
		EBL	70	70.1	E	26	136	73	70.2	E	27	142	69	106.9	F	38	233	73	92.6	F	36	177
		EBT	644	13.1	B	23	272	659	14.6	B	27	305	621	64.4	E	169	805	675	23.0	C	46	382
		EBR	81	3.4	A	1	51	84	3.6	A	1	48	77	14.2	B	1	63	84	5.6	A	1	58
		WBL	44	67.6	E	15	86	46	71.3	E	17	91	50	86.4	F	23	124	44	80.8	F	19	117
		WBT	521	13.6	B	23	198	536	14.3	B	25	219	552	28.9	C	52	305	543	30.0	C	54	299
		WBR	82	11.5	B	23	200	84	11.9	B	25	221	81	24.4	C	53	307	83	26.4	C	55	302
		Total	2,608	30.5	C	-	-	2,680	28.7	C	-	-	2,627	51.0	D	-	-	2,700	38.7	D	-	-
		6-1	Chandler Boulevard/Bellaire Avenue/MOL	NBL	3	48.7	D	9	84	3	46.4	D	10	93	2	45.0	D	9	110	2	56.2	E
NBT	26			55.5	E	9	84	26	60.4	E	10	93	26	48.5	D	9	110	29	51.2	D	9	111
NBR	27			15.9	B	10	86	27	19.3	B	11	96	25	18.6	B	10	112	27	18.1	B	10	113
SBL	8			55.0	E	8	85	8	61.5	E	8	86	8	64.4	E	7	97	7	48.3	D	7	82
SBT	16			58.4	E	8	85	16	54.1	D	8	86	15	50.9	D	7	97	15	53.3	D	7	82
SBR	19			18.8	B	9	88	20	17.6	B	9	89	20	16.5	B	8	100	20	15.4	B	7	85
EBL	27			62.3	E	9	69	28	66.2	E	10	77	24	111.5	F	15	115	26	105.8	F	14	82
EBT	761			1.0	A	2	86	781	1.0	A	2	81	778	17.2	B	48	464	791	10.4	B	24	289
EBR	20			1.1	A	2	94	19	1.3	A	2	88	23	13.9	B	51	473	20	10.9	B	26	299
WBL	6			57.9	E	2	29	6	73.0	E	2	31	7	107.2	F	4	34	6	104.7	F	3	42
WBT	620			6.9	A	11	236	637	7.2	A	11	236	646	7.9	A	14	246	631	8.2	A	14	258
WBR	25			6.5	A	11	239	26	5.7	A	12	240	34	6.8	A	14	246	37	6.3	A	14	258
Total	1,558			7.2	A	-	-	1,597	7.4	A	-	-	1,608	15.6	B	-	-	1,610	12.5	B	-	-
7-1	Chandler Boulevard/Coldwater Canyon Bo			NBL	49	81.3	F	18	107	49	73.9	E	17	116	50	97.8	F	17	137	52	109.7	F
		NBT	895	43.3	D	141	433	912	38.2	D	126	432	847	81.4	F	317	533	870	68.5	E	268	536
		NBR	167	42.1	D	145	438	173	36.7	D	130	437	168	82.4	F	321	537	174	68.6	E	272	539
		SBL	36	60.5	E	11	81	37	61.2	E	12	87	47	127.1	F	28	133	43	94.9	F	22	114
		SBT	489	33.0	C	52	273	501	31.4	C	51	265	499	74.6	E	130	524	499	36.2	D	58	253
		SBR	42	27.7	C	53	273	44	27.6	C	51	265	40	71.6	E	132	525	42	28.3	C	59	254
		EBL	53	60.9	E	17	106	54	61.5	E	17	106	56	94.9	F	29	132	57	106.0	F	32	141
		EBT	605	26.2	C	52	285	620	28.2	C	58	304	627	26.7	C	54	310	619	32.7	C	67	324
		EBR	81	21.6	C	53	286	82	23.6	C	59	305	84	22.6	C	55	312	84	28.8	C	68	325
		WBL	62	43.1	D	14	120	66	41.2	D	14	123	68	79.0	E	30	149	67	64.3	E	23	141
		WBT	497	15.1	B	24	238	509	14.6	B	24	212	507	19.2	B	31	220	506	23.9	C	39	280
		WBR	80	11.0	B	26	242	84	11.6	B	24	215	86	13.5	B	33	223	84	16.8	B	41	283
		Total	3,057	33.0	C	-	-	3,130	31.1	C	-	-	3,078	55.7	E	-	-	3,096	46.9	D	-	-
		8-1	Chandler Boulevard/MOL Busway	WBT	588	3.8	A	5	206	602	3.7	A	5	219	597	6.2	A	10	221	600	7.3	A
Total	588	5.3	A	-	-	602	5.3	A	-	-	597	5.8	A	-	-	600	6.9	A	-	-		
9-1	Ethel Avenue/MOL Busway	NBT	61	1.6	A	0	36	62	1.6	A	0	37	60	15.9	B	6	104	60	16.4	B	5	74
SBT	39	3.3	A	0	20	40	3.3	A	0	28	44	16.8	B	3	65	43	18.8	B	3	74		
Total	101	9.0	A	-	-	102	8.7	A	-	-	104	11.8	B	-	-	103	12.6	B	-	-		
9-2	Ethel Avenue/Chandler Boulevard	NBL	2	26.1	C	1	39	2	26.1	C	1	37	3	37.2	D	3	51	2	47.4	D	3	53
		NBT	3	20.7	C	1	39	3	20.7	C	1	37	3	39.7	D	3	51	3	39.5	D	3	53
		NBR	10	21.0	C	1	39	10	21.8	C	1	37	12	44.7	D	3	51	10	43.2	D	3	53
		SBL	6	27.5	C	5	63	6	26.3	C	5	65	7	19.1	B	4	83	6	17.1	B	4	80
		SBT	6	21.2	C	5	63	6	22.4	C	5	65	6	26.1	C	4	83	6	18.9	B	4	80
		SBR	27	24.1	C	5	63	28	23.3	C	5	65	30	16.5	B	4	83	31	16.5	B	4	80
		EBL	46	5.6	A	0	40	47	5.2	A	0	31	46	10.9	B	1	49	44	10.0	A	1	44
		EBT	684	3.3	A	4	117	699	3.3	A	5	110	711	7.7	A	13	166	705	7.5	A	13	158
		EBR	8	2.0	A	5	120	8	2.9	A	5	110	9	8.0	A	13	166	9	8.0	A	13	158
		WBL	11	8.1	A	0	24	10	7.2	A	0	24	12	11.0	B	0	24	12	10.5	B	0	24
		WBT	567	5.0	A	6	221	581	5.4	A	7	214	574	8.8	A	12	201	575	7.9	A	11	194
		WBR	12	4.1	A	7	222	12	5.7	A	7	214	12	9.5	A	12	201	13	10.3	B	11	194
		Total	1,381	4.9	A	-	-	1,412	5.0	A	-	-	1,423	9.0	A	-	-	1,416	8.4	A	-	-

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10-1	Burbank Boulevard/Fulton Avenue/MOL Bu	NBL	87	42.8	D	17	193	89	38.2	D	15	123	91	138.8	F	74	578	93	85.2	F	33	384
		NBT	597	37.6	D	91	496	612	33.1	C	77	336	606	127.5	F	466	677	610	94.7	F	310	671
		NBR	131	47.2	D	91	496	135	39.2	D	77	336	139	127.1	F	467	678	137	98.5	F	311	672
		SBL	34	47.5	D	5	64	35	43.6	D	5	53	33	100.9	F	16	96	32	53.4	D	8	82
		SBT	218	27.2	C	22	131	224	27.8	C	24	145	231	57.7	E	49	247	217	61.8	E	51	265
		SBR	53	28.7	C	22	131	54	29.6	C	24	145	54	47.9	D	50	247	51	50.3	D	51	265
		EBL	81	31.4	C	10	105	84	28.8	C	9	101	87	56.6	E	23	141	83	71.7	E	26	199
		EBT	1,145	13.9	B	43	324	1,169	12.8	B	41	329	1,160	35.0	C	143	574	1,138	48.9	D	218	578
		EBR	64	13.2	B	43	324	66	13.9	B	41	329	68	33.7	C	143	574	73	49.3	D	218	578
		WBL	60	30.4	C	7	82	63	27.2	C	6	81	65	51.5	D	16	115	65	58.2	E	17	118
		WBT	1,095	13.6	B	41	309	1,125	12.8	B	39	314	1,089	37.6	D	152	716	1,099	49.3	D	221	844
		WBR	71	11.3	B	42	311	74	10.9	B	39	315	80	35.7	D	152	716	76	45.8	D	221	844
			Total	3,635	21.7	C	-	-	3,729	19.9	B	-	-	3,703	59.3	E	-	-	3,674	60.2	E	-
11-1	Oxnard Street/Bufalo Avenue/MOL Buswa	NBL	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0
		NBR	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0
		EBT	1,163	0.7	A	2	101	1,140	0.8	A	2	95	1,068	1.9	A	9	234	1,091	1.6	A	8	251
		EBR	1	0.0	A	2	101	87	1.1	A	2	95	101	4.1	A	15	264	104	4.5	A	13	281
		WBL	0	0.0	A	31	227	0	0.0	A	7	144	-	-	-	-	-	-	-	-	-	-
		WBT	1,130	5.0	A	31	227	1,190	5.1	A	7	144	1,178	27.3	C	82	569	1,181	27.8	C	84	581
			Total	2,294	3.2	A	-	-	2,417	3.2	A	-	-	2,347	14.7	B	-	-	2,375	14.7	B	-
12-1	Woodman Avenue/MOL Busway	NBT	1,278	0.9	A	3	97	1,332	1.0	A	4	108	1,288	5.1	A	40	251	1,282	5.2	A	41	249
		SBT	702	5.4	A	17	162	739	6.3	A	9	173	722	15.7	B	30	307	718	19.6	B	37	352
			Total	1,980	3.0	A	-	-	2,070	3.3	A	-	-	2,010	8.8	A	-	-	1,999	10.2	B	-
12-2	Woodman Avenue/Oxnard Street	NBL	96	28.8	C	24	179	101	30.4	C	13	190	109	45.3	D	20	312	109	46.7	D	19	281
		NBT	1,005	22.7	C	82	377	1,038	21.7	C	72	385	1,029	42.3	D	149	489	1,022	41.1	D	138	490
		NBR	121	21.0	C	84	379	125	20.3	C	74	388	133	38.0	D	151	491	134	34.1	C	140	492
		SBL	70	61.1	E	21	160	71	64.4	E	24	155	70	68.4	E	25	165	72	86.8	F	35	196
		SBT	500	15.0	B	33	196	525	14.7	B	28	189	516	14.6	B	26	202	511	15.2	B	28	208
		SBR	134	10.9	B	33	196	142	11.0	B	29	189	137	11.0	B	25	202	134	12.0	B	27	208
		EBL	131	48.7	D	34	339	140	53.4	D	36	380	109	192.6	F	1,351	1,666	110	194.4	F	1,264	1,667
		EBT	973	25.8	C	86	450	1,031	25.7	C	91	433	972	87.5	F	1,373	1,667	996	85.7	F	1,308	1,667
		EBR	96	20.0	C	89	456	98	19.9	B	94	439	67	122.0	F	1,373	1,667	64	121.3	F	1,308	1,667
		WBL	73	25.8	C	6	90	77	26.6	C	6	94	75	112.3	F	49	270	75	119.5	F	55	299
		WBT	914	12.4	B	48	292	961	12.2	B	40	277	953	16.0	B	65	369	953	16.2	B	69	366
		WBR	142	11.4	B	49	294	151	11.3	B	41	279	149	15.8	B	66	371	151	15.8	B	70	369
			Total	4,254	21.1	C	-	-	4,460	21.0	C	-	-	4,318	48.0	D	-	-	4,332	48.1	D	-
13-1	Hazeltine Avenue/MOL Busway	NBL	1	78.3	E	35	213	1	53.0	D	4	198	1	86.2	F	22	417	1	102.6	F	23	415
		NBT	726	1.9	A	35	213	795	2.1	A	4	198	783	5.1	A	22	417	780	5.5	A	23	415
		SBT	513	3.6	A	5	167	523	4.3	A	6	188	509	11.4	B	17	181	517	10.9	B	17	176
		SBR	0	0.0	A	8	206	0	0.0	A	11	228	0	0.0	A	17	181	0	0.0	A	17	176
		EBL	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0
		EBR	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0
			Total	1,239	3.8	A	-	-	1,319	3.9	A	-	-	1,293	7.4	A	-	-	1,297	7.5	A	-
14-1	Tyrone Avenue/MOL Busway	NBL	0	0.0	A	1	39	0	0.0	A	1	44	0	0.0	A	0	0	0	0.0	A	0	0
		NBT	88	1.4	A	1	39	93	1.9	A	1	44	95	0.6	A	0	0	93	0.5	A	0	0
		NBR	30	8.3	A	1	39	30	7.8	A	1	44	33	6.6	A	0	0	33	6.5	A	0	0
		SBL	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0
		SBT	73	2.6	A	1	45	75	2.7	A	1	47	78	0.3	A	0	0	72	0.3	A	0	0
		SBR	19	-0.4	A	0	0	20	-0.4	A	0	0	19	-0.7	A	0	0	18	-0.7	A	0	0
		EBL	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0
		EBT	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0
		EBR	0	0.0	A	1	45	0	0.0	A	1	47	0	0.0	A	0	0	0	0.0	A	0	0
		WBL	0	0.0	A	1	45	0	0.0	A	1	47	0	0.0	A	0	0	0	0.0	A	0	0
		WBT	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0
		WBR	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0
			Total	210	2.9	A	-	-	218	3.1	A	-	-	225	1.1	A	-	-	216	1.1	A	-

Metro Orange Line Grade Separations EIR
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TURNING MOVEMENT OPERATIONS SUMMARY

#	Intersection	Movement	Existing Conditions					2025 Without Project Conditions					2025 With Reduced Project Conditions (6 minute headway)					2025 With Mitigations Conditions (6 minute headway)				
			Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)
15-1	Van Nuys Boulevard/MOL Busway/Aetna S	NBT	1,399	4.7	A	13	123	1,442	4.6	A	13	129	1,459	4.8	A	11	103	1,460	4.7	A	11	116
		NBR	26	3.0	A	21	153	28	3.0	A	16	155	32	2.5	A	19	133	31	2.3	A	19	146
		SBL	9	44.9	D	14	155	8	41.0	D	11	123	9	8.0	A	12	136	10	6.7	A	12	127
		SBT	891	9.5	A	14	155	916	9.4	A	11	123	497	9.9	A	12	136	908	9.4	A	12	127
		SBR	6	9.0	A	14	155	6	8.9	A	11	123	5	9.6	A	12	136	7	8.1	A	12	127
		EBL	5	39.4	D	5	69	5	43.6	D	6	74	5	43.6	D	6	67	4	37.9	D	5	67
		EBT	12	27.0	C	5	69	12	28.2	C	6	74	13	27.6	C	6	67	12	25.8	C	5	67
		EBR	25	27.5	C	5	69	26	26.7	C	6	74	25	27.5	C	6	67	26	25.7	C	5	67
		WBL	21	35.1	D	10	91	21	32.5	C	10	101	23	28.6	C	8	91	25	29.2	C	9	98
		WBT	16	29.7	C	10	91	16	35.1	D	10	101	15	28.3	C	8	91	16	28.3	C	9	98
		WBR	23	47.2	D	10	91	25	50.6	D	10	101	25	44.2	D	8	91	26	43.0	D	9	98
		Total	2,516	8.1	A	-	-	2,590	8.0	A	-	-	2,606	7.7	A	-	-	2,607	7.7	A	-	-
		16-1	Vesper Avenue/MOL Busway	NBT	125	2.0	A	1	58	133	2.1	A	1	52	123	0.3	A	0	33	129	0.4	A
SBT	124			2.7	A	1	65	127	2.9	A	1	60	134	0.8	A	0	28	139	0.8	A	0	35
Total	249			4.7	A	-	-	259	5.0	A	-	-	258	0.7	A	-	-	268	0.7	A	-	-
17-1	Kester Avenue/MOL Busway	NBT	1,144	0.4	A	1	151	1,176	0.4	A	1	140	1,203	1.4	A	5	247	1,204	1.4	A	6	252
		SBT	838	1.8	A	2	98	854	1.8	A	2	103	861	11.2	B	27	325	884	11.9	B	29	321
		Total	1,982	1.3	A	-	-	2,030	1.3	A	-	-	2,063	5.4	A	-	-	2,087	5.7	A	-	-
18-1	Sepulveda Boulevard/MOL Busway	NBL	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0
		NBT	2,110	3.0	A	12	230	2,162	3.3	A	14	244	2,206	4.2	A	18	272	2,204	4.1	A	18	254
		SBT	1,285	4.1	A	8	149	1,308	4.2	A	8	150	1,324	5.7	A	13	180	1,312	5.7	A	12	181
		SBR	0	0.0	A	14	195	0	0.0	A	14	196	0	0.0	A	21	227	0	0.0	A	21	227
		EBL	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0	0	0.0	A	0	0
		Total	3,396	3.6	A	-	-	3,471	3.9	A	-	-	3,530	4.7	A	-	-	3,516	4.6	A	-	-
		NBR	9	2.8	A	0	9	9	3.2	A	1	19	10	34.4	C	6	66	10	34.4	C	6	66
19-1	Victory Boulevard/Densmore Avenue	NBT	10	1.1	A	0	9	10	4.0	A	1	19	10	31.2	C	6	66	10	31.2	C	6	66
		NBR	19	2.2	A	0	9	19	4.5	A	1	19	19	31.3	C	6	66	19	31.3	C	6	66
		SBL	10	57.7	E	11	99	10	58.1	E	12	95	11	52.1	D	12	99	11	52.1	D	12	99
		SBT	9	54.0	D	11	99	9	58.5	E	12	95	10	56.9	E	12	99	10	56.9	E	12	99
		SBR	21	59.5	E	11	99	22	54.0	D	12	95	21	54.4	D	12	99	21	54.4	D	12	99
		EBL	51	33.8	C	4	72	52	41.2	D	6	74	46	43.6	D	5	71	47	52.3	D	7	90
		EBT	2,126	2.7	A	9	385	2,162	2.9	A	9	354	2,120	9.9	A	44	497	2,159	10.1	B	44	404
		EBR	8	2.7	A	9	385	7	3.8	A	9	354	10	12.2	B	44	497	10	11.7	B	44	404
		WBL	11	15.2	B	0	20	10	13.7	B	0	16	11	20.7	C	0	21	11	21.9	C	0	22
		WBT	2,093	4.2	A	14	230	2,131	4.1	A	15	237	2,133	9.8	A	39	361	2,133	9.8	A	39	365
		WBR	53	4.7	A	14	230	54	4.9	A	15	237	58	10.6	B	39	361	58	10.7	B	39	365
		Total	4,418	4.3	A	-	-	4,494	4.5	A	-	-	4,457	10.9	B	-	-	4,496	11.0	B	-	-
		20-1	Woodley Avenue/Victory Boulevard/MOL B	NBL	202	134.7	F	214	531	202	152.5	F	231	616	215	144.8	F	318	765	216	109.9	F
NBT	506			68.6	E	214	531	517	73.5	E	231	616	514	97.6	F	374	777	523	84.4	F	295	714
NBR	265			117.8	F	214	531	271	124.6	F	231	616	260	235.0	F	374	777	264	204.4	F	295	714
SBL	208			250.3	F	357	521	204	280.1	F	405	522	158	428.4	F	775	878	198	321.6	F	633	831
SBT	168			91.3	F	51	404	168	108.1	F	80	468	134	160.8	F	726	877	168	126.8	F	494	825
SBR	110			74.3	E	53	405	110	92.5	F	79	469	83	130.3	F	728	879	101	104.5	F	495	827
EBL	64			30.2	C	7	99	64	33.6	C	8	107	71	48.5	D	16	129	70	56.5	E	19	138
EBT	1,710			7.7	A	24	381	1,745	7.9	A	25	381	1,752	21.4	C	84	522	1,758	23.6	C	95	542
EBR	48			8.7	A	25	384	49	8.3	A	26	384	47	24.9	C	86	525	46	26.2	C	96	545
WBL	47			69.2	E	16	103	49	72.0	E	18	105	48	81.4	F	20	132	48	75.2	E	18	120
WBT	1,901			18.0	B	80	459	1,938	17.6	B	81	484	1,944	17.1	B	80	565	1,948	19.3	B	94	610
WBR	168			19.5	B	81	462	172	19.5	B	82	486	164	19.2	B	81	568	164	21.8	C	95	612
Total	5,398			41.6	D	-	-	5,489	44.6	D	-	-	5,389	59.8	E	-	-	5,504	55.8	E	-	-
22-1	Victory Boulevard/Balboa Boulevard	NBL	262	50.9	D	46	173	266	51.0	D	47	192	266	33.3	C	31	205	265	33.5	C	31	207
		NBT	974	20.8	C	61	213	996	20.6	C	62	212	1,003	14.5	B	45	256	1,003	14.5	B	46	254
		NBR	186	15.8	B	63	217	191	16.0	B	64	215	199	12.6	B	47	260	199	12.8	B	47	258
		SBL	122	53.5	D	25	98	124	55.1	E	27	102	123	58.1	E	27	109	123	58.3	E	27	109
		SBT	463	30.2	C	36	162	472	30.6	C	38	175	483	43.2	D	52	233	483	43.2	D	52	232
		SBR	78	23.8	C	37	163	81	24.7	C	39	177	81	34.9	C	53	234	81	34.9	C	53	234
		EBL	205	54.9	D	39	149	209	54.2	D	39	142	211	221.8	F	165	494	211	219.8	F	162	471
		EBT	1,516	32.8	C	112	444	1,543	32.8	C	115	450	1,554	31.3	C	119	555	1,555	31.1	C	115	523
		EBR	115	31.8	C	119	453	117	32.0	C	121	460	116	31.7	C	126	565	116	31.4	C	122	532
		WBL	198	67.1	E	42	132	203	66.3	E	42	129	215	138.8	F	101	409	217	142.6	F	103	383
		WBT	1,659	20.1	C	71	542	1,680	19.3	B	69	499	1,663	36.4	D	160	669	1,677	36.1	D	156	666
		WBR	145	19.7	B	72	545	148	19.4	B	71	502	155	38.4	D	161	672	156	37.8	D	158	669
		Total	5,923	29.2	C	-	-	6,029	29.0	C	-	-	6,069	41.5	D	-	-	6,086	41.5	D	-	-
22-2	Balboa Boulevard/MOL Busway	NBL	262	8.1	A	15	161	266	8.6	A	15	160	266	21.7	C	61						

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TURNING MOVEMENT OPERATIONS SUMMARY

#	Intersection	Movement	Existing Conditions					2025 Without Project Conditions					2025 With Reduced Project Conditions (6 minute headway)					2025 With Mitigations Conditions (6 minute headway)				
			Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)
23-1	Oxnard Street/White Oak Avenue/MOL Bus	NBL	41	64.4	E	13	105	43	61.2	E	13	96	42	67.0	E	15	105	42	68.9	E	15	107
		NBT	1,010	16.9	B	50	333	1,030	18.4	B	56	349	1,047	50.1	D	198	622	1,040	52.7	D	210	621
		NBR	8	16.5	B	51	336	8	13.5	B	57	352	8	48.4	D	198	622	8	48.6	D	210	621
		SBL	67	29.7	C	45	294	67	32.7	C	49	323	74	51.3	D	33	350	74	51.4	D	33	325
		SBT	678	21.6	C	45	294	694	22.9	C	49	323	679	22.8	C	33	350	679	23.6	C	33	325
		SBR	42	19.7	B	45	294	44	21.4	C	49	323	39	20.4	C	33	350	38	19.6	B	33	325
		EBL	105	62.7	E	30	209	108	65.2	E	33	285	100	100.4	F	67	416	106	120.4	F	94	484
		EBT	202	10.7	B	7	275	208	10.7	B	7	252	189	17.3	B	13	341	202	18.8	B	15	380
		EBR	65	8.2	A	8	277	67	8.3	A	8	253	63	15.6	B	14	342	67	15.0	B	15	381
		WBL	5	33.9	C	1	30	4	39.7	D	1	32	5	28.3	C	1	30	5	31.0	C	1	28
		WBT	245	37.6	D	51	303	253	35.6	D	50	284	248	28.8	C	37	257	249	27.3	C	35	250
		WBR	193	55.5	E	59	262	198	57.9	E	63	272	195	31.1	C	32	229	195	29.3	C	30	218
		Total	2,661	25.3	C	-	-	2,724	26.4	C	-	-	2,690	37.9	D	-	-	2,706	39.7	D	-	-
		24-1	Oxnard Street/Lindley Avenue/MOL Buswa	NBL	92	60.9	E	30	156	94	60.3	E	30	168	98	77.2	E	41	257	98	81.1	F
NBT	757			16.5	B	36	251	773	16.4	B	37	254	769	31.0	C	75	471	768	36.4	D	89	516
NBR	9			16.1	B	38	256	9	13.7	B	39	259	8	29.1	C	77	475	8	30.8	C	92	520
SBL	66			57.8	E	19	106	67	58.6	E	20	109	68	39.0	D	13	116	69	38.9	D	13	116
SBT	506			15.0	B	27	202	519	16.4	B	20	229	513	13.2	B	25	214	513	16.2	B	31	228
SBR	139			17.3	B	27	202	143	18.2	B	30	229	149	14.7	B	25	214	149	17.8	B	31	228
EBL	181			54.7	D	32	139	184	54.4	D	32	158	153	100.9	F	52	245	176	87.3	F	49	182
EBT	329			47.4	D	84	347	336	47.8	D	86	352	299	43.2	D	72	376	327	50.4	D	93	392
EBR	140			16.5	B	84	347	141	17.7	B	86	352	121	12.6	B	72	376	138	11.8	B	93	392
WBL	6			40.5	D	1	30	5	39.0	D	1	28	5	92.5	F	3	39	5	51.7	D	1	35
WBT	277			32.0	C	29	168	285	31.9	C	30	160	281	36.6	D	33	164	282	32.9	C	30	166
WBR	84			80.3	F	38	218	89	77.4	E	37	205	88	23.3	C	9	118	88	23.9	C	9	122
Total	2,583			29.2	C	-	-	2,645	29.5	C	-	-	2,552	33.2	C	-	-	2,621	35.7	D	-	-
25-1	Reseda Boulevard/Bessemer Street/MOL B			NBL	79	66.1	E	27	146	83	64.4	E	28	161	61	157.3	F	31	155	67	139.8	F
		NBT	842	31.5	C	80	408	859	31.5	C	83	423	681	155.1	F	397	494	743	138.9	F	389	496
		NBR	63	26.5	C	82	411	64	25.6	C	84	426	50	70.4	E	1	51	56	61.9	E	1	55
		SBL	43	68.5	E	77	391	42	70.9	E	93	374	40	176.9	F	439	530	43	171.3	F	437	534
		SBT	771	40.0	D	77	391	756	40.0	D	93	374	666	156.6	F	439	530	703	146.6	F	437	534
		SBR	42	41.2	D	77	391	42	39.3	D	93	374	36	160.3	F	439	530	38	153.5	F	437	534
		EBL-Bessemer	29	59.2	E	8	67	30	53.3	D	7	70	32	81.8	F	12	87	32	78.0	E	12	89
		EBT-Bessemer	6	63.7	E	3	84	5	60.0	E	11	105	4	59.9	E	2	67	5	62.7	E	3	71
		EBR-Bessemer	42	43.1	D	3	84	41	43.0	D	11	105	41	47.3	D	2	67	41	46.6	D	3	71
		WBL-Bessemer	33	74.9	E	9	83	32	75.0	E	16	109	31	93.1	F	9	80	31	96.5	F	9	81
		WBT-Bessemer	2	62.0	E	9	83	2	48.9	D	16	109	2	58.5	E	9	80	2	38.7	D	9	81
		WBR-Bessemer	15	5.9	A	0	54	14	5.4	A	0	54	14	5.1	A	0	51	14	5.5	A	0	53
		EBL-Oxnard	98	57.8	E	21	167	100	58.0	E	21	163	86	83.3	F	33	163	101	78.9	E	37	200
		EBT-Oxnard	446	33.4	C	44	260	455	33.4	C	45	242	380	27.1	C	31	217	442	23.3	C	30	226
		EBR-Oxnard	117	9.8	A	4	92	118	9.3	A	3	89	100	6.5	A	131	222	116	6.4	A	2	75
		WBL-Oxnard	81	86.4	F	39	163	84	86.0	F	40	161	91	92.3	F	50	214	91	71.6	E	36	210
		WBT-Oxnard	334	51.2	D	53	242	344	50.6	D	54	249	349	21.4	C	24	193	350	22.0	C	22	165
		WBR-Oxnard	87	21.9	C	5	122	89	20.4	C	4	82	87	30.7	C	4	74	87	31.4	C	5	85
Total	3,247	39.7	D	-	-	3,280	39.6	D	-	-	2,845	102.1	F	-	-	3,060	93.5	F	-	-		
26-1	Wilbur Avenue/Oxnard Street/MOL Buswa	NBL	100	52.1	D	28	171	103	53.5	D	29	175	101	68.5	E	37	185	103	70.7	E	40	194
		NBT	622	23.8	C	47	280	639	24.7	C	51	288	639	40.4	D	97	506	652	29.8	C	62	346
		NBR	49	24.2	C	47	280	50	27.0	C	51	288	45	40.8	D	97	506	48	26.9	C	67	353
		SBL	93	55.4	E	28	150	95	55.7	E	28	159	92	73.6	E	50	202	96	95.3	F	50	196
		SBT	436	22.7	C	33	209	446	22.0	C	33	197	448	33.3	C	50	268	451	53.2	D	85	408
		SBR	56	23.7	C	33	209	57	23.8	C	33	197	58	33.2	C	50	268	58	53.4	D	85	408
		EBL	69	84.0	F	35	417	72	86.7	F	35	467	72	96.6	F	46	528	82	82.0	F	42	541
		EBT	485	19.6	B	72	677	495	19.7	B	76	702	415	26.2	C	165	848	483	23.0	C	87	779
		EBR	144	17.7	B	73	679	145	17.2	B	77	704	107	22.4	C	168	851	122	19.3	B	90	784
		WBL	35	58.3	E	9	78	36	55.4	E	8	75	30	30.8	C	14	152	32	38.3	D	5	64
		WBT	372	48.2	D	111	452	382	47.6	D	113	431	359	28.6	C	57	378	374	31.7	C	66	432
		WBR	146	87.4	F	81	381	150	85.3	F	83	411	141	31.6	C	23	192	144	41.1	D	32	292
		Total	2,607	33.8	C	-	-	2,668	33.9	C	-	-	2,508	37.1	D	-	-	2,644	38.6	D	-	-

Metro Orange Line Grade Separations EIR
PM Peak Hour Results Summary - Vissim Model

TURNING MOVEMENT OPERATIONS SUMMARY

#	Intersection	Movement	Existing Conditions					2025 Without Project Conditions					2025 With Reduced Project Conditions (6 minute headway)					2025 With Mitigations Conditions (6 minute headway)					
			Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	
27-1	Tampa Avenue/Topham Street/MOL Busway	NBL	44	66.9	E	15	120	45	67.7	E	15	128	42	173.4	F	46	325	49	110.4	F	24	177	
		NBT	1,279	21.8	C	63	328	1,320	21.9	C	64	323	1,187	102.8	F	447	555	1,313	49.4	D	217	544	
		NBR	101	19.5	B	67	336	104	20.4	C	69	332	90	109.2	F	455	563	102	31.7	C	224	553	
		SBL	88	98.6	F	51	204	91	104.9	F	56	255	88	34.6	C	20	168	92	40.0	D	16	140	
		SBT	596	20.6	C	36	247	617	21.7	C	43	274	621	17.9	B	33	231	623	17.7	B	31	215	
		SBR	19	20.8	C	36	247	19	21.4	C	43	274	-	-	-	-	-	-	-	-	-	-	-
		EBL	31	93.6	F	17	261	32	96.4	F	19	285	27	78.9	E	11	193	30	92.5	F	20	341	
		EBT	507	28.7	C	92	533	516	31.0	C	105	527	428	24.7	C	116	725	493	22.5	C	69	608	
		EBR	62	23.8	C	94	535	64	26.0	C	106	530	52	22.8	C	117	727	59	18.4	B	71	610	
		WBL	45	33.4	C	6	59	46	36.3	D	7	68	48	30.9	C	9	82	50	30.7	C	6	88	
		WBT	370	25.3	C	49	412	380	25.6	C	51	351	363	21.3	C	40	393	374	19.2	B	37	388	
		WBR	91	94.7	F	57	368	93	89.4	F	51	265	84	33.4	C	14	111	87	49.2	D	23	162	
		Total	3,233	28.8	C	-	-	3,328	29.6	C	-	-	3,028	58.4	E	-	-	3,273	35.2	D	-	-	
		28-1	Corbin Avenue/Topham Street/MOL Busway	NBL	15	87.1	F	6	78	15	90.8	F	6	86	19	93.8	F	6	61	19	118.1	F	8
NBT	766			37.7	D	100	403	780	35.3	D	95	457	793	56.4	E	174	500	795	62.7	E	179	501	
NBR	83			40.2	D	100	403	86	36.6	D	95	457	80	61.9	E	174	500	81	36.7	D	2	98	
SBL	92			54.5	D	26	170	96	56.9	E	28	159	98	69.7	E	39	224	99	70.6	E	37	183	
SBT	287			27.8	C	46	370	295	26.2	C	44	329	298	20.6	C	33	290	299	23.2	C	38	311	
SBR	12			32.9	C	46	350	11	28.1	C	44	329	11	20.2	C	33	290	11	22.1	C	38	311	
EBL	16			94.3	F	8	58	16	100.0	F	9	58	13	83.2	F	5	57	17	82.0	F	6	52	
EBT	331			9.6	A	15	204	334	11.9	B	20	248	249	32.1	C	53	471	307	29.7	C	58	550	
EBR	20			9.0	A	15	204	20	11.7	B	20	248	17	35.0	C	53	471	21	31.5	C	58	550	
WBL	41			21.0	C	2	69	42	25.5	C	3	74	38	30.5	C	5	93	40	30.7	C	4	74	
WBT	291			16.6	B	24	370	297	21.1	C	35	438	270	27.6	C	40	355	281	24.0	C	38	429	
WBR	101			8.9	A	1	76	104	10.6	B	2	108	95	32.9	C	15	123	99	32.2	C	16	167	
Total	2,053			29.2	C	-	-	2,096	29.3	C	-	-	1,979	42.6	D	-	-	2,069	43.4	D	-	-	
29-1	Victory Boulevard/Topham Street/MOL Busway			NWBL	313	59.8	E	105	451	321	68.3	E	124	494	296	22.1	C	32	320	308	24.0	C	37
		NWBR	4	87.1	F	1	18	3	88.9	F	1	28	4	51.8	D	1	17	4	44.7	D	1	22	
		EBT	1,760	5.5	A	23	332	1,776	5.6	A	23	357	1,307	27.6	C	121	716	1,644	29.9	C	188	963	
		EBR	351	5.5	A	23	332	353	5.6	A	23	357	260	16.2	B	121	716	328	22.9	C	188	963	
		WBT	1,104	9.7	A	24	291	1,130	8.9	A	23	264	1,134	29.7	C	103	461	1,134	29.8	C	103	460	
		Total	3,531	12.0	B	-	-	3,583	12.6	B	-	-	3,001	26.5	C	-	-	3,418	28.4	C	-	-	
30-1	Winnetka Avenue/MOL Busway	NBT	1,280	1.1	A	4	63	1,305	1.1	A	4	70	1,252	1.5	A	6	228	1,283	1.8	A	7	227	
		SBT	900	4.8	A	8	117	923	5.8	A	10	170	915	5.5	A	11	240	915	5.5	A	11	240	
		Total	2,180	3.1	A	-	-	2,228	3.5	A	-	-	2,167	3.2	A	-	-	2,198	3.3	A	-	-	
31-1	Victory Boulevard/Mason Avenue/MOL Busway	NBL	77	99.7	F	40	182	79	110.7	F	44	216	83	82.8	F	37	167	84	67.6	E	30	162	
		NBT	392	100.9	F	163	439	398	116.6	F	195	452	407	65.1	E	103	439	409	50.8	D	68	342	
		NBR	107	90.8	F	166	443	107	108.7	F	199	456	101	53.7	D	106	443	102	12.2	B	3	66	
		SBL	129	78.6	E	53	266	130	77.3	E	55	247	140	30.9	C	22	144	140	29.8	C	21	137	
		SBT	95	51.2	D	27	236	97	53.7	D	29	225	96	18.7	B	8	101	96	18.8	B	8	98	
		SBR	201	55.7	E	41	234	204	57.3	E	43	217	200	21.9	C	14	121	200	21.5	C	14	130	
		EBL	205	194.8	F	381	988	207	185.1	F	379	907	111	574.4	F	1,026	1,557	217	126.6	F	190	668	
		EBT	1,643	7.5	A	25	330	1,637	7.8	A	60	519	982	32.7	C	995	1,561	1,476	22.3	C	74	515	
		EBR	65	2.6	A	1	71	65	2.7	A	0	65	36	7.3	A	1	74	54	6.9	A	1	81	
		WBL	40	70.0	E	15	94	41	75.2	E	16	99	40	35.7	D	7	74	40	88.1	F	19	102	
		WBT	1,189	10.0	A	25	169	1,216	9.6	A	25	163	1,193	18.8	B	45	345	1,199	32.9	C	85	500	
		WBR	185	8.0	A	5	98	190	7.8	A	5	87	184	24.6	C	22	208	185	31.0	C	28	235	
		Total	4,327	35.2	D	-	-	4,372	37.0	D	-	-	3,572	48.0	D	-	-	4,202	34.9	C	-	-	
		32-1	Victory Boulevard/De Soto Avenue/MOL Busway	NBL	70	74.8	E	27	128	73	76.3	E	28	148	70	123.2	F	73	224	71	121.3	F	43
NBT	1,136			46.1	D	169	553	1,167	46.4	D	173	581	1,139	82.7	F	449	884	1,156	76.1	E	371	874	
NBR	353			54.1	D	171	556	360	52.8	D	175	583	359	97.1	F	451	886	366	87.7	F	374	876	
SBL	108			76.9	E	35	179	111	81.1	F	38	175	108	134.0	F	91	348	110	130.0	F	85	338	
SBT	776			40.8	D	92	343	790	40.0	D	93	332	786	32.4	C	79	405	787	31.2	C	74	394	
SBR	188			51.5	D	92	343	195	52.7	D	93	332	197	32.6	C	79	405	196	31.7	C	74	394	
EBL	307			313.8	F	917	1,241	305	321.2	F	995	1,315	162	634.8	F	1,280	1,319	273	363.1	F	1,160	1,318	
EBT	1,488			24.9	C	859	1,238	1,470	25.8	C	934	1,313	779	50.0	D	1,277	1,316	1,251	33.4	C	1,022	1,314	
EBR	137			24.3	C	862	1,242	136	24.5	C	937	1,316	76	51.2	D	1,281	1,319	119	34.4	C	1,025	1,318	
WBL	219			70.0	E	50	177	225	71.1	E	51	165	215	49.1	D	35	153	227	195.3	F	143	538	
WBT	1,117			17.7	B	40	301	1,141	18.0	B	41	300	1,128	19.1	B	44	355	1,135	33.2	C	77	355	
WBR	129			10.3	B	5	94	133	10.9	B	6	95	134	29.0	C	20	179	135	33.4	C	23	194	
Total	6,027			49.8	D	-	-	6,107	50.4	D	-	-	5,152	70.4	E	-	-	5,824	69.1	E	-	-	

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TURNING MOVEMENT OPERATIONS SUMMARY

#	Intersection	Movement	Existing Conditions					2025 Without Project Conditions					2025 With Reduced Project Conditions (6 minute headway)					2025 With Mitigations Conditions (6 minute headway)				
			Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)
33-1	Canoga Avenue/Vanowen Street/MOL Busw	NBL	155	63.3	E	55	236	156	61.5	E	54	232	150	39.1	D	31	194	149	45.5	D	37	277
		NBT	943	31.1	C	99	451	952	31.1	C	100	440	937	33.6	C	204	754	921	41.3	D	297	1,013
		NBR	330	20.1	C	99	451	334	20.6	C	100	440	302	96.8	F	204	754	301	119.2	F	297	1,013
		SBL	226	87.3	F	129	416	212	82.7	F	104	379	148	282.5	F	398	982	167	148.4	F	159	608
		SBT	548	54.9	D	114	393	554	24.9	C	51	335	612	40.6	D	261	872	626	29.0	C	65	503
		SBR	134	43.5	D	115	393	153	21.9	C	51	336	88	36.0	D	263	875	94	26.4	C	66	506
		EBL	68	76.2	E	26	126	69	77.6	E	27	145	64	179.5	F	74	504	63	142.4	F	56	325
		EBT	953	41.1	D	133	485	965	42.1	D	140	486	872	105.3	F	1,008	1,189	864	106.5	F	1,014	1,186
		EBR	63	20.2	C	0	36	64	20.6	C	0	43	54	65.3	E	61	278	53	70.7	E	7	164
		WBL	119	52.4	D	30	238	121	52.6	D	30	267	108	140.2	F	337	776	112	136.6	F	351	1,132
		WBT	782	36.1	D	101	444	789	36.8	D	105	441	701	126.4	F	1,042	1,304	731	119.4	F	958	1,293
		WBR	114	38.7	D	101	444	115	41.4	D	105	441	101	139.5	F	1,042	1,304	106	130.0	F	958	1,293
		Total	4,435	42.0	D	-	-	4,484	37.6	D	-	-	4,137	86.5	F	-	-	4,184	82.1	F	-	-
		34-1	Canoga Avenue/Sherman Way/MOL Buswa	NBL	85	37.5	D	15	147	87	50.4	D	22	139	79	59.2	E	23	145	77	63.9	E
NBT	908			38.2	D	112	469	921	37.0	D	110	474	851	29.2	C	562	1,434	837	34.0	C	754	1,408
NBR	217			63.4	E	67	359	215	76.3	E	66	373	178	300.9	F	747	1,465	178	301.9	F	861	1,484
SBL	152			94.8	F	70	240	154	95.1	F	73	292	129	400.4	F	600	1,138	150	190.2	F	191	685
SBT	643			35.5	D	70	366	653	43.0	D	91	457	626	33.3	C	432	1,089	651	29.9	C	82	598
SBR	107			8.3	A	1	81	105	13.9	B	2	90	114	18.1	B	120	593	117	13.1	B	2	92
EBL	73			55.7	E	22	130	75	55.6	E	22	119	68	87.3	F	22	133	71	59.2	E	18	136
EBT	777			27.3	C	63	334	786	26.9	C	63	324	751	150.7	F	555	1,033	774	100.9	F	244	742
EBR	31			21.1	C	65	338	31	24.3	C	64	327	30	56.3	E	555	1,033	30	34.2	C	244	742
WBL	104			150.4	F	78	305	106	149.3	F	78	310	102	210.1	F	750	1,070	109	173.8	F	401	831
WBT	724			31.8	C	78	305	732	32.1	C	78	310	692	169.7	F	750	1,070	727	113.3	F	401	831
WBR	88			31.6	C	78	305	89	30.3	C	78	310	84	175.1	F	750	1,070	88	119.9	F	401	831
Total	3,909			40.2	D	-	-	3,952	42.3	D	-	-	3,703	115.6	F	-	-	3,808	86.5	F	-	-
35-1	Canoga Avenue/Valerio Street/MOL Buswa			NBL	14	57.8	E	4	49	14	55.9	E	4	49	14	49.5	D	3	48	14	55.1	E
		NBT	958	6.1	A	17	148	972	6.9	A	20	175	909	25.3	C	80	690	903	27.0	C	84	743
		NBR	88	11.5	B	4	85	89	11.3	B	4	82	74	86.3	F	35	220	75	87.7	F	35	215
		SBL	91	57.3	E	28	190	90	58.9	E	30	176	88	104.8	F	57	451	89	112.9	F	65	470
		SBT	784	12.3	B	29	262	793	12.3	B	29	248	789	37.2	D	127	802	810	28.6	C	82	573
		SBR	34	10.5	B	30	264	35	9.5	A	30	250	34	32.9	C	129	804	34	29.5	C	84	576
		EBL	52	82.8	F	27	278	53	76.6	E	24	273	57	70.6	E	25	301	57	64.7	E	21	247
		EBT	216	45.4	D	62	346	218	44.5	D	60	347	212	48.1	D	74	427	214	43.5	D	60	361
		EBR	31	32.6	C	63	348	31	31.5	C	62	349	30	41.6	D	75	429	30	34.2	C	61	363
		WBL	36	55.6	E	11	135	35	51.7	D	10	135	34	108.9	F	10	113	34	114.3	F	12	142
		WBT	103	41.8	D	33	197	104	41.2	D	33	197	92	50.0	D	39	206	91	49.9	D	38	203
		WBR	35	42.0	D	33	197	34	40.2	D	33	197	35	48.5	D	39	206	35	47.9	D	38	203
		Total	2,441	19.0	B	-	-	2,469	19.0	B	-	-	2,367	39.5	D	-	-	2,384	37.1	D	-	-
		36-1	Canoga Avenue/Saticoy Street/MOL Buswa	NBL	75	46.9	D	19	127	78	49.3	D	20	134	72	34.4	C	12	117	72	37.2	D
NBT	926			45.7	D	132	451	936	46.3	D	135	444	899	18.5	B	51	573	893	18.3	B	50	587
NBR	137			22.2	C	14	171	139	22.1	C	14	179	129	63.3	E	44	322	129	71.1	E	51	348
SBL	171			87.4	F	96	452	173	99.9	F	116	509	169	128.6	F	170	747	172	120.6	F	131	501
SBT	994			37.9	D	126	528	1,005	38.9	D	132	527	1,009	37.7	D	152	812	1,018	33.9	C	116	604
SBR	144			8.6	A	2	74	145	9.3	A	2	84	140	10.4	B	2	78	141	9.7	A	3	78
EBL	116			62.1	E	40	180	116	61.6	E	40	189	114	85.3	F	54	224	115	87.5	F	55	223
EBT	994			37.5	D	123	526	1,003	36.8	D	121	497	979	61.3	E	254	874	983	56.9	E	227	855
EBR	40			37.2	D	124	527	41	36.1	D	122	498	45	57.8	E	255	875	45	53.9	D	228	857
WBL	129			34.9	C	37	222	130	35.6	D	39	212	126	62.4	E	65	226	125	50.0	D	23	199
WBT	754			12.7	B	76	234	763	12.6	B	77	226	752	14.7	B	121	230	750	12.5	B	58	229
WBR	117			24.4	C	19	197	118	23.9	C	19	178	119	34.7	C	33	222	119	22.1	C	14	157
Total	4,596			36.1	D	-	-	4,646	36.9	D	-	-	4,553	40.1	D	-	-	4,560	37.3	D	-	-

Metro Orange Line Grade Separations EIR
PM Peak Hour Results Summary - Vissim Model

TURNING MOVEMENT OPERATIONS SUMMARY

#	Intersection	Movement	Existing Conditions					2025 Without Project Conditions					2025 With Reduced Project Conditions (6 minute headway)					2025 With Mitigations Conditions (6 minute headway)				
			Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)	Traffic Volume (vph)	Avg. Vehicle Delay (s)	LOS	Avg. Queue Length (ft)	Max. Queue Length (ft)
37-1	Canoga Avenue/Roscoe Boulevard/MOL Bu	NBL	56	80.3	F	24	110	57	80.1	F	24	114	54	35.4	D	10	98	54	39.5	D	11	99
		NBT	991	13.4	B	38	240	1,005	13.8	B	39	232	977	34.4	C	107	574	983	37.0	D	116	551
		NBR	194	9.7	A	7	140	195	9.7	A	7	152	177	64.9	E	63	307	177	63.5	E	62	358
		SBL	136	70.9	E	54	211	139	69.8	E	54	211	134	108.3	F	83	418	132	105.1	F	83	385
		SBT	921	12.4	B	33	268	935	15.0	B	41	293	936	32.3	C	107	729	944	31.4	C	104	734
		SBR	153	4.8	A	2	77	155	5.1	A	2	83	154	9.7	A	3	97	156	9.1	A	3	87
		EBL	124	58.3	E	39	203	125	60.3	E	41	212	126	42.2	D	28	165	126	42.5	D	28	165
		EBT	1,060	40.3	D	97	350	1,072	39.9	D	97	345	1,036	28.5	C	65	274	1,035	29.0	C	66	291
		EBR	77	38.1	D	100	353	77	36.5	D	100	348	71	26.1	C	67	278	71	26.9	C	68	294
		WBL	145	61.1	E	80	250	146	61.7	E	81	254	149	66.1	E	81	265	149	66.9	E	81	272
		WBT	803	37.2	D	80	250	811	37.5	D	81	254	814	35.2	D	81	265	815	35.3	D	81	272
		WBR	128	39.2	D	23	165	130	41.2	D	25	174	128	40.7	D	81	265	129	40.8	D	81	272
		Total	4,786	28.9	C	-	-	4,845	29.5	C	-	-	4,757	36.3	D	-	-	4,771	36.7	D	-	-
		38-1	Canoga Avenue/Parthenia Street/MOL Bus	NBL	37	70.9	E	13	94	36	62.0	E	12	76	38	36.6	D	6	68	38	38.4	D
NBT	781			20.3	C	47	424	794	20.9	C	50	430	781	34.4	C	78	438	775	34.7	C	79	538
NBR	333			19.6	B	27	296	335	20.3	C	28	294	330	59.5	E	121	636	330	58.0	E	123	665
SBL	165			46.4	D	41	241	167	47.9	D	43	267	162	87.0	F	81	374	163	112.6	F	110	423
SBT	721			28.2	C	63	380	731	29.5	C	67	374	725	34.7	C	81	415	732	35.2	D	81	404
SBR	31			26.5	C	65	384	31	26.5	C	69	379	37	42.1	D	83	420	38	36.1	D	84	409
EBL	27			66.3	E	9	72	27	68.2	E	9	70	25	80.7	F	9	71	25	76.7	E	9	67
EBT	589			42.6	D	82	314	596	41.5	D	80	307	576	58.3	E	115	482	576	57.5	E	112	480
EBR	39			35.5	D	82	316	39	35.2	D	81	309	39	54.9	D	83	440	39	53.6	D	81	439
WBL	273			46.7	D	61	306	277	45.3	D	59	305	275	111.9	F	210	604	277	106.0	F	180	530
WBT	482			31.6	C	52	300	486	31.3	C	51	299	492	51.5	D	149	630	492	49.1	D	110	545
WBR	52			34.6	C	52	300	54	28.9	C	51	299	52	53.7	D	149	630	52	51.5	D	110	545
Total	3,529			31.7	C	-	-	3,572	31.8	C	-	-	3,530	51.9	D	-	-	3,535	52.2	D	-	-
39-1	Canoga Avenue/Nordhoff Street/MOL Bus			NBL	40	72.9	E	15	81	40	72.1	E	15	77	37	33.0	C	6	80	37	32.9	C
		NBT	583	9.4	A	16	107	593	9.2	A	16	110	592	33.1	C	53	335	591	29.7	C	48	327
		NBR	269	11.2	B	9	176	276	11.6	B	10	202	260	65.5	E	101	558	259	41.9	D	61	515
		SBL	218	65.2	E	87	440	222	65.9	E	87	436	221	129.5	F	317	1,167	220	58.9	E	44	161
		SBT	527	17.9	B	28	191	533	18.4	B	29	209	533	32.7	C	60	762	532	21.4	C	34	289
		SBR	12	6.9	A	0	28	12	6.3	A	0	28	15	16.0	B	0	27	15	6.5	A	0	34
		EBL	5	60.6	E	1	29	5	69.7	E	1	29	4	63.7	E	1	24	4	131.7	F	2	25
		EBT	546	43.2	D	73	296	552	43.0	D	74	284	536	48.2	D	81	346	536	48.2	D	145	477
		EBR	61	5.3	A	1	53	62	5.0	A	1	53	61	10.0	A	1	60	60	20.0	B	2	69
		WBL	258	69.4	E	103	362	262	69.7	E	106	389	262	151.0	F	250	530	268	68.5	E	99	411
		WBT	526	29.0	C	46	230	535	29.8	C	48	281	520	49.6	D	163	520	520	45.9	D	97	406
		WBR	136	30.8	C	20	165	136	29.4	C	20	155	135	56.4	E	163	520	135	52.0	D	97	406
		Total	3,183	30.4	C	-	-	3,227	30.6	C	-	-	3,174	57.3	E	-	-	3,177	46.5	D	-	-
		40-1	Canoga Avenue/Prairie Avenue/MOL Bus	NBL	7	26.8	C	1	27	8	33.5	C	1	31	6	33.5	C	1	26	6	37.2	D
NBT	713			5.1	A	17	488	727	5.1	A	19	498	722	9.8	A	41	567	723	9.5	A	39	571
SBT	650			6.5	A	16	290	659	6.0	A	15	309	649	12.0	B	35	330	652	10.4	B	31	342
SBR	8			6.9	A	16	290	8	5.2	A	15	309	7	15.2	B	35	330	7	11.5	B	31	342
EBL	20			18.4	B	2	42	20	20.6	C	2	48	19	20.0	C	2	39	19	22.2	C	2	41
EBR	107			19.6	B	10	101	109	22.0	C	12	120	117	26.4	C	15	143	116	24.8	C	15	132
Total	1,505			7.0	A	-	-	1,530	7.0	A	-	-	1,519	11.9	B	-	-	1,522	11.0	B	-	-