

APPENDIX C DATA

Crash Data

NDOT Crash Data
City of Sparks Crash Data



NDOT Crash Data

PMX AT Crashes	PMX InjuryType	PMX UI	WebmapSymbology	KTWL Study_Corridors_CrashLocati	PMX NormalizeTim	PMX TimeFrames	PMX DayTime	UserType	PMX Intersection Location
Vehicles Only	Unknown	PMX_116	Property Damage Only	PDO	3:05:00 AM	3:00:00 AM	1/6/2019 3:05	0 Vehicle Only	HYMER AVE & S ROCK BLVD
Vehicles Only	Possible Injury	PMX_308	Possible/Minor Injury	<Null>	2:04:00 PM	2:00:00 PM	1/11/2019 14:04	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_446	Property Damage Only	PDO	7:06:00 AM	7:00:00 AM	1/24/2019 7:06	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Possible Injury	PMX_463	Possible/Minor Injury	<Null>	5:27:00 AM	5:00:00 AM	1/25/2019 5:27	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Unknown	PMX_584	Property Damage Only	PDO	5:43:00 PM	6:00:00 PM	1/28/2019 17:43	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_506	Property Damage Only	PDO	6:26:00 PM	6:00:00 PM	2/1/2019 18:26	0 Vehicle Only	IR80W TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_522	Property Damage Only	PDO	2:47:00 PM	3:00:00 PM	2/1/2019 14:47	0 Vehicle Only	SR668 & SR668 TO IR80E INT17
Vehicles Only	Minor Injury	PMX_684	Possible/Minor Injury	<Null>	6:30:00 AM	7:00:00 AM	2/7/2019 6:30	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_681	Property Damage Only	PDO	8:19:00 AM	8:00:00 AM	2/9/2019 8:19	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_936	Property Damage Only	PDO	6:50:00 AM	7:00:00 AM	2/11/2019 6:50	0 Vehicle Only	G ST & ROCK BLVD
Vehicles Only	Minor Injury	PMX_947	Possible/Minor Injury	<Null>	6:16:00 PM	6:00:00 PM	2/13/2019 18:16	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Unknown	PMX_19411	Property Damage Only	PDO	6:38:00 AM	7:00:00 AM	2/17/2019 6:38	0 Vehicle Only	GLENDALE AV & S ROCK BL
Vehicles Only	Unknown	PMX_1214	Property Damage Only	PDO	8:02:00 AM	8:00:00 AM	2/18/2019 8:02	0 Vehicle Only	FREEPORT BLVD & S ROCK BLVD
Vehicles Only	Possible Injury	PMX_1133	Possible/Minor Injury	<Null>	1:17:00 PM	1:00:00 PM	2/18/2019 13:17	0 Vehicle Only	SR668 & SR668 TO IR80E INT17
Vehicles Only	Possible Injury	PMX_1033	Possible/Minor Injury	<Null>	4:41:00 AM	5:00:00 AM	2/22/2019 4:41	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Possible Injury	PMX_1273	Possible/Minor Injury	<Null>	7:12:00 PM	7:00:00 PM	3/1/2019 19:12	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Possible Injury	PMX_1479	Possible/Minor Injury	<Null>	1:46:00 PM	2:00:00 PM	3/6/2019 13:46	0 Vehicle Only	F ST & ROCK BLVD
Vehicles Only	Unknown	PMX_1482	Property Damage Only	PDO	4:03:00 PM	4:00:00 PM	3/7/2019 16:03	0 Vehicle Only	ROCK BLVD & SR659
Involved Bicyclist or Ped	Minor Injury	PMX_1406	Possible/Minor Injury (Pedestrian)	<Null>	10:38:00 AM	11:00:00 AM	3/8/2019 10:38	0 Pedestrian	IR80E TO SR668 INT17 & SR668
Vehicles Only	No Injury	PMX_19811	Property Damage Only	PDO	6:14:00 AM	6:00:00 AM	3/9/2019 6:14	0 Vehicle Only	GREENBRAE DR & ROCK BL
Involved Bicyclist or Ped	Minor Injury	PMX_1593	Possible/Minor Injury (Pedestrian)	<Null>	6:32:00 PM	7:00:00 PM	3/12/2019 18:32	0 Pedestrian	ODDIE BLVD & ROCK BLVD
Vehicles Only	Possible Injury	PMX_1533	Possible/Minor Injury	<Null>	7:31:00 AM	8:00:00 AM	3/15/2019 7:31	0 Vehicle Only	SR668 & SR668 TO IR80W INT17
Vehicles Only	Unknown	PMX_1687	Property Damage Only	PDO	3:55:00 PM	4:00:00 PM	3/20/2019 15:55	0 Vehicle Only	PRATER WAY & S ROCK BLVD
Vehicles Only	Unknown	PMX_1723	Property Damage Only	PDO	7:45:00 AM	8:00:00 AM	3/21/2019 7:45	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Unknown	PMX_1693	Property Damage Only	PDO	10:30:00 AM	11:00:00 AM	3/21/2019 10:30	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Unknown	PMX_1847	Property Damage Only	PDO	5:05:00 PM	5:00:00 PM	4/1/2019 17:05	0 Vehicle Only	OXFORD AVE & ROCK BLVD
Vehicles Only	Unknown	PMX_1913	Property Damage Only	PDO	7:03:00 PM	7:00:00 PM	4/2/2019 19:03	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Unknown	PMX_1979	Property Damage Only	PDO	4:07:00 PM	4:00:00 PM	4/5/2019 16:07	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Unknown	PMX_1934	Property Damage Only	PDO	2:24:00 AM	2:00:00 AM	4/6/2019 2:24	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Possible Injury	PMX_1927	Possible/Minor Injury	<Null>	4:00:00 PM	4:00:00 PM	4/8/2019 16:00	0 Vehicle Only	F ST & ROCK BLVD
Vehicles Only	Unknown	PMX_2044	Property Damage Only	PDO	12:55:00 PM	1:00:00 PM	4/12/2019 12:55	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	Possible Injury	PMX_2007	Possible/Minor Injury	<Null>	3:29:00 PM	3:00:00 PM	4/14/2019 15:29	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_2002	Property Damage Only	PDO	4:24:00 AM	4:00:00 AM	4/15/2019 4:24	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_2243	Property Damage Only	PDO	12:01:00 AM	12:00:00 AM	4/24/2019 0:01	0 Vehicle Only	GAULT WAY & ROCK BLVD
Vehicles Only	Unknown	PMX_2365	Property Damage Only	PDO	10:08:00 PM	10:00:00 PM	4/25/2019 22:08	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Vehicles Only	Possible Injury	PMX_2263	Possible/Minor Injury	<Null>	8:23:00 AM	8:00:00 AM	4/30/2019 8:23	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	Possible Injury	PMX_2277	Possible/Minor Injury	<Null>	1:44:00 PM	2:00:00 PM	5/2/2019 13:44	0 Vehicle Only	SR668 & SR668 TO IR80E INT17
Vehicles Only	Minor Injury	PMX_2513	Possible/Minor Injury	<Null>	2:48:00 PM	3:00:00 PM	5/4/2019 14:48	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Possible Injury	PMX_2425	Possible/Minor Injury	<Null>	8:21:00 AM	8:00:00 AM	5/6/2019 8:21	0 Vehicle Only	1ST & ROCK BLVD
Vehicles Only	Possible Injury	PMX_2663	Possible/Minor Injury	<Null>	5:55:00 PM	6:00:00 PM	5/10/2019 17:55	0 Vehicle Only	S ROCK BLVD & SHABER AVE
Vehicles Only	Unknown	PMX_2587	Property Damage Only	PDO	11:27:00 PM	11:00:00 PM	5/14/2019 23:27	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_2684	Property Damage Only	PDO	5:15:00 PM	5:00:00 PM	5/23/2019 17:15	0 Vehicle Only	HYMER AVE & S ROCK BLVD
Vehicles Only	Unknown	PMX_2788	Property Damage Only	PDO	8:09:00 PM	8:00:00 PM	5/24/2019 20:09	0 Vehicle Only	H ST & ROCK BLVD
Vehicles Only	Minor Injury	PMX_2988	Possible/Minor Injury	<Null>	5:05:00 PM	5:00:00 PM	6/1/2019 17:05	0 Vehicle Only	ROCK BLVD & YORK WAY
Vehicles Only	Unknown	PMX_2997	Property Damage Only	PDO	7:00:00 PM	7:00:00 PM	6/4/2019 19:00	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Unknown	PMX_3211	Property Damage Only	PDO	3:11:00 PM	3:00:00 PM	6/17/2019 15:11	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Possible Injury	PMX_3238	Possible/Minor Injury	<Null>	4:45:00 PM	5:00:00 PM	6/18/2019 16:45	0 Vehicle Only	ROCK BLVD & SR659
Involved Bicyclist or Ped	Unknown	PMX_3242	Property Damage Only	PDO	5:59:00 PM	6:00:00 PM	6/19/2019 17:59	0 Bicyclist	ROCK BLVD & SBRAIG WAY
Vehicles Only	Unknown	PMX_3281	Property Damage Only	PDO	6:56:00 AM	7:00:00 AM	6/21/2019 6:56	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Possible Injury	PMX_3203	Possible/Minor Injury	<Null>	1:58:00 AM	2:00:00 AM	6/22/2019 1:58	0 Vehicle Only	SR668 & SR668 TO IR80W INT17
Vehicles Only	Unknown	PMX_3447	Property Damage Only	PDO	12:27:00 PM	12:00:00 PM	6/24/2019 12:27	0 Vehicle Only	IR80W TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_3409	Property Damage Only	PDO	12:16:00 PM	12:00:00 PM	6/27/2019 12:16	0 Vehicle Only	HYMER AVE & S ROCK BLVD
Vehicles Only	Unknown	PMX_3383	Property Damage Only	PDO	6:42:00 AM	7:00:00 AM	6/28/2019 6:42	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Possible Injury	PMX_3536	Possible/Minor Injury	<Null>	12:31:00 PM	1:00:00 PM	7/2/2019 12:31	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Unknown	PMX_3756	Property Damage Only	PDO	7:23:00 PM	7:00:00 PM	7/10/2019 19:23	0 Vehicle Only	G ST & ROCK BLVD
Vehicles Only	Unknown	PMX_3684	Property Damage Only	PDO	1:10:00 PM	1:00:00 PM	7/13/2019 13:10	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Possible Injury	PMX_3888	Possible/Minor Injury	<Null>	3:15:00 PM	3:00:00 PM	7/17/2019 15:15	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Unknown	PMX_4019	Property Damage Only	PDO	8:00:00 AM	8:00:00 AM	7/26/2019 8:00	0 Vehicle Only	HYMER AVE & S ROCK BLVD
Vehicles Only	Unknown	PMX_4199	Property Damage Only	PDO	6:16:00 PM	6:00:00 PM	8/1/2019 18:16	0 Vehicle Only	IR80W TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_4125	Property Damage Only	PDO	10:11:00 PM	10:00:00 PM	8/3/2019 22:11	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Possible Injury	PMX_4217	Possible/Minor Injury	<Null>	1:45:00 PM	2:00:00 PM	8/4/2019 13:45	0 Vehicle Only	PLYMOUTH WAY & ROCK BLVD
Vehicles Only	Possible Injury	PMX_4395	Possible/Minor Injury	<Null>	5:30:00 PM	6:00:00 PM	8/9/2019 17:30	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Possible Injury	PMX_4280	Possible/Minor Injury	<Null>	2:07:00 PM	2:00:00 PM	8/14/2019 14:07	0 Vehicle Only	SR668 & SR668 TO IR80E INT17
Vehicles Only	Unknown	PMX_4519	Property Damage Only	PDO	7:43:00 PM	8:00:00 PM	8/20/2019 19:43	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	Unknown	PMX_4622	Property Damage Only	PDO	10:40:00 AM	11:00:00 AM	8/25/2019 10:40	0 Vehicle Only	PITTMAN AVE & S ROCK BLVD
Vehicles Only	Unknown	PMX_4606	Property Damage Only	PDO	12:35:00 PM	1:00:00 PM	8/26/2019 12:35	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Unknown	PMX_4645	Property Damage Only	PDO	12:30:00 PM	1:00:00 PM	8/28/2019 12:30	0 Vehicle Only	SR668 & SR668 TO IR80E INT17
Vehicles Only	Unknown	PMX_4884	Property Damage Only	PDO	9:42:00 PM	10:00:00 PM	8/30/2019 21:42	0 Vehicle Only	C ST & ROCK BLVD
Vehicles Only	Unknown	PMX_4882	Property Damage Only	PDO	4:11:00 AM	4:00:00 AM	8/31/2019 4:11	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	Unknown	PMX_4781	Property Damage Only	PDO	11:08:00 PM	11:00:00 PM	9/2/2019 23:08	0 Vehicle Only	GREG ST & S ROCK BLVD
Involved Bicyclist or Ped	Minor Injury	PMX_4822	Possible/Minor Injury (Pedestrian)	<Null>	6:14:00 AM	6:00:00 AM	9/5/2019 6:14	0 Pedestrian	PRATER WAY & ROCK BLVD
Vehicles Only	Minor Injury	PMX_4938	Possible/Minor Injury	<Null>	4:25:00 PM	4:00:00 PM	9/11/2019 16:25	0 Vehicle Only	1ST & ROCK BLVD
Vehicles Only	Unknown	PMX_5265	Property Damage Only	PDO	12:05:00 PM	12:00:00 PM	9/20/2019 12:05	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_5335	Property Damage Only	PDO	6:42:00 AM	7:00:00 AM	9/20/2019 6:42	0 Vehicle Only	IR80W TO SR668 INT17 & SR668
Vehicles Only	Possible Injury	PMX_5545	Possible/Minor Injury	<Null>	4:10:00 PM	4:00:00 PM	10/8/2019 16:10	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Possible Injury	PMX_5554	Possible/Minor Injury	<Null>	2:25:00 PM	2:00:00 PM	10/9/2019 14:25	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_5629	Property Damage Only	PDO	12:32:00 AM	1:00:00 AM	10/12/2019 0:32	0 Vehicle Only	ROCK BLVD & TYLER WAY
Vehicles Only	Unknown	PMX_5699	Property Damage Only	PDO	8:00:00 AM	8:00:00 AM	10/14/2019 8:00	0 Vehicle Only	FREEPORT BLVD & S ROCK BLVD
Vehicles Only	Minor Injury	PMX_5865	Possible/Minor Injury	<Null>	7:17:00 PM	7:00:00 PM	10/20/2019 19:17	0 Vehicle Only	PRATER WAY & ROCK BLVD
Vehicles Only	Unknown	PMX_5816	Property Damage Only	PDO	5:38:00 AM	6:00:00 AM	10/21/2019 5:38	0 Vehicle Only	F ST & ROCK BLVD
Vehicles Only	Unknown	PMX_5868	Property Damage Only	PDO	1:33:00 PM	2:00:00 PM	10/22/2019 13:33	0 Vehicle Only	F ST & ROCK BLVD
Vehicles Only	Possible Injury	PMX_5811	Possible/Minor Injury	<Null>	4:50:00 PM	5:00:00 PM	10/23/2019 16:50	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_5920	Property Damage Only	PDO	1:02:00 PM	1:00:00 PM	10/24/2019 13:02	0 Vehicle Only	PRATER WAY & ROCK BLVD
Vehicles Only	Possible Injury	PMX_6117	Possible/Minor Injury	<Null>	1:16:00 PM	1:00:00 PM	11/6/2019 13:16	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Minor Injury	PMX_6196	Possible/Minor Injury	<Null>	5:09:00 PM	5:00:00 PM	11/10/2019 17:09	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	Unknown	PMX_6399	Property Damage Only	PDO	11:32:00 PM	12:00:00 AM	11/16/2019 23:32	0 Vehicle Only	F ST & ROCK BLVD
Vehicles Only	Unknown	PMX_6424	Property Damage Only	PDO	7:46:00 AM	8:00:00 AM	11/17/2019 7:46	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	Possible Injury	PMX_6568	Possible/Minor Injury	<Null>	7:55:00 AM	8:00:00 AM	11/26/2019 7:55	0 Vehicle Only	HYMER AVE & S ROCK BLVD
Vehicles Only	Unknown	PMX_6829	Property Damage Only	PDO	6:51:00 AM	7:00:00 AM	12/6/2019 6:51	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Unknown	PMX_6904	Property Damage Only	PDO	2:39:00 PM	3:00:00 PM	12/8/2019 14:39	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	Unknown	PMX_6847	Property Damage Only	PDO	8:54:00 PM	9:00:00 PM	12/11/2019 20:54	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Unknown	PMX_6930	Property Damage Only	PDO	4:02:00 PM	4:00:00 PM	12/14/2019 16:02	0 Vehicle Only	IR80W TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_7029	Property Damage Only	PDO	7:19:00 PM	7:00:00 PM	12/15/2019 19:19	0 Vehicle Only	IR80W TO SR668 INT17 & SR668

NDOT Crash Data

PMX AT Crashes	PMX InjuryType	PMX UI	WebmapSymbology	KTWL Study Corridors	CrashLocation	PMX NormalizeTime	PMX Timeframes	PMX DayTime	UserType	PMX Intersection Location
Vehicles Only	Minor Injury	PMX_6958	Possible/Minor Injury	<Null>		12:47:00 PM	1:00:00 PM	12/16/2019 12:47	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_7120	Property Damage Only	PDO		10:00:00 AM	10:00:00 AM	12/19/2019 10:00	0 Vehicle Only	PRATER WAY & ROCK BLVD
Vehicles Only	Unknown	PMX_7267	Property Damage Only	PDO		4:29:00 PM	4:00:00 PM	1/2/2020 16:29	0 Vehicle Only	15TH ST & ROCK BLVD
Vehicles Only	Unknown	PMX_7258	Property Damage Only	PDO		9:07:00 AM	9:00:00 AM	1/4/2020 9:07	0 Vehicle Only	15TH ST & ROCK BLVD
Vehicles Only	Minor Injury	PMX_7387	Possible/Minor Injury	<Null>		6:07:00 PM	6:00:00 PM	1/5/2020 18:07	0 Vehicle Only	15TH ST & ROCK BLVD
Vehicles Only	Unknown	PMX_7470	Property Damage Only	PDO		12:29:00 PM	12:00:00 PM	1/6/2020 12:29	0 Vehicle Only	GREG ST & ROCK BLVD
Vehicles Only	Unknown	PMX_7460	Property Damage Only	PDO		5:30:00 PM	6:00:00 PM	1/6/2020 17:30	0 Vehicle Only	PLYMOUTH WAY & ROCK BLVD
Vehicles Only	Possible Injury	PMX_7652	Possible/Minor Injury	<Null>		10:26:00 AM	10:00:00 AM	1/24/2020 10:26	0 Vehicle Only	FREEMONT BLVD & ROCK BLVD
Vehicles Only	Possible Injury	PMX_7617	Possible/Minor Injury	<Null>		12:27:00 PM	12:00:00 PM	1/27/2020 12:27	0 Vehicle Only	1ST & ROCK BLVD
Vehicles Only	Unknown	PMX_7860	Property Damage Only	PDO		6:35:00 AM	7:00:00 AM	2/4/2020 6:35	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Vehicles Only	Unknown	PMX_7737	Property Damage Only	PDO		10:15:00 AM	10:00:00 AM	2/4/2020 10:15	0 Vehicle Only	ROCK BLVD & SR648
Vehicles Only	Serious Injury	PMX_13192	Serious Injury	Serious Injury		9:10:00 AM	9:00:00 AM	2/7/2020 9:10	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	Possible Injury	PMX_7919	Possible/Minor Injury	<Null>		5:50:00 PM	6:00:00 PM	2/10/2020 17:50	0 Vehicle Only	PITTMAN AVE & ROCK BLVD
Vehicles Only	Unknown	PMX_7939	Property Damage Only	PDO		3:05:00 PM	3:00:00 PM	2/12/2020 15:05	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Unknown	PMX_8292	Property Damage Only	PDO		3:47:00 PM	4:00:00 PM	2/21/2020 15:47	0 Vehicle Only	COMMERCE ST & ROCK BLVD
Vehicles Only	Minor Injury	PMX_8201	Possible/Minor Injury	<Null>		5:33:00 PM	6:00:00 PM	2/23/2020 17:33	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Serious Injury	PMX_8327	Serious Injury	<Null>		8:55:00 PM	9:00:00 PM	2/29/2020 20:55	0 Vehicle Only	PROSPECT AVE & ROCK BLVD
Vehicles Only	Unknown	PMX_8320	Property Damage Only	PDO		10:27:00 AM	10:00:00 AM	2/29/2020 10:27	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Involved Bicyclist or Ped	Possible Injury	PMX_8324	Possible/Minor Injury (Pedestrian)	<Null>		2:52:00 PM	3:00:00 PM	3/2/2020 14:52	0 Pedestrian	GREENBRAE DR & ROCK BLVD
Vehicles Only	Unknown	PMX_8407	Property Damage Only	PDO		5:38:00 PM	6:00:00 PM	3/4/2020 17:38	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Vehicles Only	Serious Injury	PMX_8440	Serious Injury	<Null>		10:08:00 PM	10:00:00 PM	3/5/2020 22:08	0 Vehicle Only	SR668 & SR668 TO IR80W INT17
Vehicles Only	Unknown	PMX_8325	Property Damage Only	PDO		1:13:00 PM	1:00:00 PM	3/6/2020 13:13	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	Unknown	PMX_8637	Property Damage Only	PDO		7:38:00 AM	8:00:00 AM	3/14/2020 7:38	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Possible Injury	PMX_8677	Possible/Minor Injury	<Null>		4:39:00 PM	5:00:00 PM	3/19/2020 16:39	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Involved Bicyclist or Ped	Unknown	PMX_8683	Property Damage Only	PDO		6:04:00 PM	6:00:00 PM	3/25/2020 18:04	0 Pedestrian	COMMERCE ST & ROCK BLVD
Vehicles Only	Unknown	PMX_8954	Property Damage Only	PDO		11:14:00 AM	11:00:00 AM	4/23/2020 11:14	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Minor Injury	PMX_8976	Possible/Minor Injury	<Null>		5:37:00 PM	6:00:00 PM	4/26/2020 17:37	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Possible Injury	PMX_9022	Possible/Minor Injury	<Null>		5:40:00 PM	6:00:00 PM	4/30/2020 17:40	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_9263	Property Damage Only	PDO		5:25:00 PM	5:00:00 PM	5/29/2020 17:25	0 Vehicle Only	ROCK BLVD & SR648
Vehicles Only	Possible Injury	PMX_9440	Possible/Minor Injury	<Null>		8:15:00 AM	8:00:00 AM	6/2/2020 8:15	0 Vehicle Only	ROCK BLVD & SR648
Vehicles Only	Unknown	PMX_9613	Property Damage Only	PDO		5:00:00 PM	5:00:00 PM	6/13/2020 17:00	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_9522	Property Damage Only	PDO		3:59:00 PM	4:00:00 PM	6/18/2020 15:59	0 Vehicle Only	C ST & ROCK BLVD
Vehicles Only	Minor Injury	PMX_9621	Possible/Minor Injury	<Null>		2:26:00 PM	2:00:00 PM	6/18/2020 14:26	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_9496	Property Damage Only	PDO		7:30:00 PM	8:00:00 PM	6/18/2020 19:30	0 Vehicle Only	PRATER WAY & ROCK BLVD
Vehicles Only	Unknown	PMX_9611	Property Damage Only	PDO		5:04:00 PM	5:00:00 PM	6/19/2020 17:04	0 Vehicle Only	HYMER AVE & ROCK BLVD
Vehicles Only	Minor Injury	PMX_9660	Possible/Minor Injury	<Null>		3:28:00 PM	3:00:00 PM	6/25/2020 15:28	0 Vehicle Only	ROCK BLVD & SHABER AVE
Vehicles Only	Unknown	PMX_9707	Property Damage Only	PDO		10:40:00 AM	11:00:00 AM	6/28/2020 10:40	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Possible Injury	PMX_9665	Possible/Minor Injury	<Null>		12:32:00 AM	1:00:00 AM	6/28/2020 0:32	0 Vehicle Only	OXFORD AVE & ROCK BLVD
Vehicles Only	Possible Injury	PMX_9746	Possible/Minor Injury	<Null>		2:19:00 PM	2:00:00 PM	6/30/2020 14:19	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Unknown	PMX_9829	Property Damage Only	PDO		4:45:00 PM	5:00:00 PM	7/2/2020 16:45	0 Vehicle Only	FREEMONT BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_9897	Property Damage Only	PDO		3:32:00 PM	4:00:00 PM	7/9/2020 15:32	0 Vehicle Only	ROCK BLVD & SR648
Vehicles Only	Unknown	PMX_10002	Property Damage Only	PDO		3:37:00 PM	4:00:00 PM	7/12/2020 15:37	0 Vehicle Only	GREG ST & ROCK BLVD
Vehicles Only	Unknown	PMX_9930	Property Damage Only	PDO		7:24:00 PM	7:00:00 PM	7/17/2020 19:24	0 Vehicle Only	1ST & ROCK BLVD
Vehicles Only	Unknown	PMX_9924	Property Damage Only	PDO		2:39:00 PM	3:00:00 PM	7/19/2020 14:39	0 Vehicle Only	PRATER WAY & ROCK BLVD
Vehicles Only	Possible Injury	PMX_10168	Possible/Minor Injury	<Null>		4:03:00 PM	4:00:00 PM	7/27/2020 16:03	0 Vehicle Only	ROCK BLVD & RUSSELL WAY
Vehicles Only	Unknown	PMX_10133	Property Damage Only	PDO		8:30:00 AM	9:00:00 AM	7/28/2020 8:30	0 Vehicle Only	GREG ST & ROCK BLVD
Vehicles Only	Possible Injury	PMX_10198	Possible/Minor Injury	<Null>		8:07:00 AM	8:00:00 AM	8/1/2020 8:07	0 Vehicle Only	1ST & ROCK BLVD
Vehicles Only	Unknown	PMX_10495	Property Damage Only	PDO		4:00:00 PM	4:00:00 PM	8/19/2020 16:00	0 Vehicle Only	ROCK BLVD & SR648
Vehicles Only	Unknown	PMX_10510	Property Damage Only	PDO		1:48:00 PM	2:00:00 PM	8/20/2020 13:48	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Unknown	PMX_10620	Property Damage Only	PDO		9:55:00 PM	10:00:00 PM	8/21/2020 21:55	0 Vehicle Only	ROCK BLVD & SBAGIA WAY
Vehicles Only	Unknown	PMX_10580	Property Damage Only	PDO		7:42:00 PM	8:00:00 PM	8/22/2020 19:42	0 Vehicle Only	HYMER AVE & ROCK BLVD
Vehicles Only	Unknown	PMX_10698	Property Damage Only	PDO		10:39:00 AM	11:00:00 AM	9/2/2020 10:39	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Minor Injury	PMX_10690	Possible/Minor Injury	<Null>		12:01:00 AM	12:00:00 AM	9/5/2020 0:01	0 Vehicle Only	IR80W TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_10982	Property Damage Only	PDO		1:37:00 PM	2:00:00 PM	9/19/2020 13:37	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Minor Injury	PMX_11269	Possible/Minor Injury	<Null>		11:05:00 PM	11:00:00 PM	9/25/2020 23:05	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_11221	Property Damage Only	PDO		10:05:00 PM	10:00:00 PM	9/26/2020 22:05	0 Vehicle Only	PITTMAN AVE & S ROCK BLVD
Vehicles Only	Unknown	PMX_11170	Property Damage Only	PDO		7:06:00 PM	7:00:00 PM	9/30/2020 19:06	0 Vehicle Only	COMMERCE ST & ROCK BLVD
Vehicles Only	Unknown	PMX_11323	Property Damage Only	PDO		1:53:00 PM	2:00:00 PM	10/9/2020 13:53	0 Vehicle Only	HYMER AVE & SR668
Vehicles Only	Possible Injury	PMX_11346	Possible/Minor Injury	<Null>		9:52:00 PM	10:00:00 PM	10/12/2020 21:52	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_11442	Property Damage Only	PDO		5:22:00 PM	5:00:00 PM	10/14/2020 17:22	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Unknown	PMX_11510	Property Damage Only	PDO		6:40:00 AM	7:00:00 AM	10/16/2020 6:40	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_11513	Property Damage Only	PDO		7:43:00 PM	8:00:00 PM	10/18/2020 19:43	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Minor Injury	PMX_11710	Possible/Minor Injury	<Null>		2:53:00 PM	3:00:00 PM	10/23/2020 14:53	0 Vehicle Only	FREEMONT BLVD & S ROCK BLVD
Vehicles Only	Unknown	PMX_11664	Property Damage Only	PDO		12:20:00 PM	12:00:00 PM	10/28/2020 12:20	0 Vehicle Only	PITTMAN AVE & S ROCK BLVD
Involved Bicyclist or Ped	Possible Injury	PMX_11868	Possible/Minor Injury (Pedestrian)	<Null>		7:46:00 AM	8:00:00 AM	10/31/2020 7:46	0 Pedestrian	COMMERCE ST & ROCK BLVD
Vehicles Only	Possible Injury	PMX_11809	Possible/Minor Injury	<Null>		8:34:00 PM	9:00:00 PM	11/2/2020 20:34	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_11819	Property Damage Only	PDO		5:18:00 PM	5:00:00 PM	11/3/2020 17:18	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_11929	Property Damage Only	PDO		6:00:00 PM	6:00:00 PM	11/13/2020 18:00	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_12116	Property Damage Only	PDO		5:44:00 PM	6:00:00 PM	11/18/2020 17:44	0 Vehicle Only	HYMER AVE & S ROCK BLVD
Vehicles Only	Unknown	PMX_12180	Property Damage Only	PDO		2:44:00 PM	3:00:00 PM	11/19/2020 14:44	0 Vehicle Only	PITTMAN AVE & S ROCK BLVD
Vehicles Only	Unknown	PMX_12186	Property Damage Only	PDO		12:15:00 PM	12:00:00 PM	11/20/2020 12:15	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	Unknown	PMX_12081	Property Damage Only	PDO		5:10:00 PM	5:00:00 PM	11/21/2020 17:10	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	Unknown	PMX_12086	Property Damage Only	PDO		2:46:00 AM	3:00:00 AM	11/23/2020 2:46	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	Unknown	PMX_12335	Property Damage Only	PDO		3:01:00 PM	3:00:00 PM	12/4/2020 15:01	0 Vehicle Only	PRATER WAY & ROCK BLVD
Vehicles Only	Unknown	PMX_12226	Property Damage Only	PDO		4:05:00 AM	4:00:00 AM	12/4/2020 4:05	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Serious Injury	PMX_12241	Serious Injury	<Null>		12:14:00 PM	12:00:00 PM	12/6/2020 12:14	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	Possible Injury	PMX_12492	Possible/Minor Injury	<Null>		3:51:00 PM	4:00:00 PM	12/9/2020 15:51	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	Possible Injury	PMX_12475	Possible/Minor Injury	<Null>		8:38:00 PM	9:00:00 PM	12/10/2020 20:38	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Vehicles Only	Possible Injury	PMX_12447	Possible/Minor Injury	<Null>		11:30:00 AM	12:00:00 PM	12/11/2020 11:30	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Unknown	PMX_12359	Property Damage Only	PDO		12:29:00 PM	12:00:00 PM	12/16/2020 12:29	0 Vehicle Only	PLYMOUTH WAY & ROCK BLVD
Vehicles Only	Possible Injury	PMX_18078	Possible/Minor Injury	Possible/Minor Injury		6:07:00 PM	6:00:00 PM	12/29/2020 18:07	0 Vehicle Only	OTHER & OTHER
Vehicles Only	No Injury	PMX_34265	Property Damage Only	PDO		2:37:00 PM	3:00:00 PM	1/5/2021 14:37	0 Vehicle Only	OTHER & OTHER
Vehicles Only	No Injury	PMX_34375	Property Damage Only	PDO		1:00:00 PM	1:00:00 PM	1/8/2021 13:00	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	No Injury	PMX_34496	Property Damage Only	PDO		10:38:00 AM	11:00:00 AM	1/16/2021 10:38	0 Vehicle Only	PRATER WAY & ROCK BLVD
Vehicles Only	No Injury	PMX_34497	Property Damage Only	PDO		1:43:00 PM	2:00:00 PM	1/19/2021 13:43	0 Vehicle Only	OTHER & OTHER
Vehicles Only	No Injury	PMX_34411	Property Damage Only	PDO		6:50:00 AM	7:00:00 AM	1/19/2021 6:50	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Minor Injury	PMX_34400	Possible/Minor Injury	Possible/Minor Injury		9:34:00 PM	10:00:00 PM	1/20/2021 21:34	0 Vehicle Only	GAULT WAY & ROCK BLVD
Vehicles Only	Possible Injury	PMX_34650	Possible/Minor Injury	Possible/Minor Injury		3:13:00 PM	3:00:00 PM	1/28/2021 15:13	0 Vehicle Only	GLENDAL AVE & S ROCK BL
Vehicles Only	Possible Injury	PMX_34857	Possible/Minor Injury	Possible/Minor Injury		9:15:00 AM	9:00:00 AM	2/8/2021 9:15	0 Vehicle Only	E GLENDAL AVE & ROCK BL
Vehicles Only	No Injury	PMX_34975	Property Damage Only	PDO		10:29:00 AM	10:00:00 AM	2/10/2021 10:29	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	No Injury	PMX_34890	Property Damage Only	PDO		1:07:00 PM	1:00:00 PM	2/15/2021 13:07	0 Vehicle Only	F ST & ROCK BLVD
Vehicles Only	Unknown	PMX_34987	Property Damage Only	PDO		10:15:00 AM	10:00:00 AM	2/19/2021 10:15	0 Vehicle Only	GLENDAL AVE & S ROCK BLVD
Vehicles Only	Unknown	PMX_35138	Property Damage Only	PDO		8:01:00 AM	8:00:00 AM	2/20/2021 8:01	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	No Injury	PMX_35041	Property Damage Only	PDO		9:24:00 PM	9:00:00 PM	2/21/2021 21:24	0 Vehicle Only	OTHER & OTHER

NDOT Crash Data

PMX AT Crashes	PMX InjuryType	PMX UI	WebmapSymbology	KTWL Study Corridors	CrashLocation	PMX NormalizeTime	PMX Timeframes	PMX DayTime	UserType	PMX Intersection Location
Vehicles Only	No Injury	PMX_35230	Property Damage Only	PDO		1:06:00 PM	1:00:00 PM	3/2/2021 13:06	0 Vehicle Only	GREG ST & ROCK BLVD
Vehicles Only	No Injury	PMX_35413	Property Damage Only	PDO		4:32:00 PM	5:00:00 PM	3/11/2021 16:32	0 Vehicle Only	PRATER WAY & ROCK BLVD
Vehicles Only	Possible Injury	PMX_35339	Possible/Minor Injury	Possible/Minor Injury		10:03:00 PM	10:00:00 PM	3/16/2021 22:03	0 Vehicle Only	G & ROCK BLVD
Vehicles Only	Unknown	PMX_35648	Property Damage Only	PDO		7:45:00 AM	8:00:00 AM	3/29/2021 7:45	0 Vehicle Only	HYMER AVE & ROCK BLVD
Vehicles Only	Possible Injury	PMX_32678	Possible/Minor Injury	Possible/Minor Injury		5:52:00 PM	6:00:00 PM	4/1/2021 17:52	0 Vehicle Only	IR80 E TO S ROCK BLVD & ROCK BLVD
Vehicles Only	No Injury	PMX_32540	Property Damage Only	PDO		12:11:00 PM	12:00:00 PM	4/9/2021 12:11	0 Vehicle Only	COMMERCE ST & ROCK BLVD
Vehicles Only	Possible Injury	PMX_32558	Possible/Minor Injury	Possible/Minor Injury		3:21:00 PM	3:00:00 PM	4/10/2021 15:21	0 Vehicle Only	PRATER WAY & ROCK BLVD
Vehicles Only	No Injury	PMX_32510	Property Damage Only	PDO		10:39:00 AM	11:00:00 AM	4/11/2021 10:39	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Serious Injury	PMX_32800	Serious Injury	Serious Injury		6:55:00 AM	7:00:00 AM	4/20/2021 6:55	0 Vehicle Only	ROCK BLVD & SHABER AVE
Vehicles Only	Unknown	PMX_32887	Property Damage Only	PDO		8:43:00 PM	9:00:00 PM	4/23/2021 20:43	0 Vehicle Only	HYMER AVE & ROCK BLVD
Vehicles Only	No Injury	PMX_32986	Property Damage Only	PDO		3:28:00 AM	3:00:00 AM	5/1/2021 3:28	0 Vehicle Only	ROCK BL TO IR80 W & ROCK BLVD
Vehicles Only	No Injury	PMX_32945	Property Damage Only	PDO		3:24:00 PM	3:00:00 PM	5/4/2021 15:24	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Possible Injury	PMX_33150	Possible/Minor Injury	Possible/Minor Injury		9:01:00 PM	9:00:00 PM	5/10/2021 21:01	0 Vehicle Only	ROCK BL TO IR80 W & ROCK BLVD
Vehicles Only	Minor Injury	PMX_33338	Possible/Minor Injury	Possible/Minor Injury		6:53:00 AM	7:00:00 AM	5/11/2021 6:53	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	No Injury	PMX_33195	Property Damage Only	PDO		5:17:00 PM	5:00:00 PM	5/17/2021 17:17	0 Vehicle Only	HYMER AVE & S ROCK BLVD
Vehicles Only	Unknown	PMX_37349	Property Damage Only	PDO		4:25:00 PM	4:00:00 PM	5/18/2021 16:25	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Possible Injury	PMX_33352	Possible/Minor Injury	Possible/Minor Injury		6:57:00 PM	7:00:00 PM	5/19/2021 18:57	0 Vehicle Only	GAULT WY & ROCK BLVD
Vehicles Only	Possible Injury	PMX_33407	Possible/Minor Injury	Possible/Minor Injury		11:55:00 AM	12:00:00 PM	5/19/2021 11:55	0 Vehicle Only	OTHER & ROCK BL
Vehicles Only	No Injury	PMX_33605	Property Damage Only	PDO		11:20:00 AM	11:00:00 AM	5/28/2021 11:20	0 Vehicle Only	F ST & ROCK BLVD
Vehicles Only	No Injury	PMX_33542	Property Damage Only	PDO		4:58:00 AM	5:00:00 AM	5/29/2021 4:58	0 Vehicle Only	D STREET & ROCK BLVD
Vehicles Only	No Injury	PMX_33580	Property Damage Only	PDO		10:55:00 PM	11:00:00 PM	6/1/2021 22:55	0 Vehicle Only	OTHER & ROCK BLVD
Vehicles Only	Possible Injury	PMX_33784	Possible/Minor Injury	Possible/Minor Injury		1:22:00 PM	1:00:00 PM	6/7/2021 13:22	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	No Injury	PMX_33717	Property Damage Only	PDO		12:01:00 PM	12:00:00 PM	6/9/2021 12:01	0 Vehicle Only	GLENDALE AVE & ROCK BLVD
Vehicles Only	Possible Injury	PMX_33855	Possible/Minor Injury	Possible/Minor Injury		7:57:00 PM	8:00:00 PM	6/17/2021 19:57	0 Vehicle Only	GREG ST & S ROCK BL
Involved Bicyclist or Ped	Fatal	PMX_34196	Fatal (Bicyclist)	Fatal (Bicyclist)		8:46:00 AM	9:00:00 AM	6/30/2021 8:46	0 Bicyclist	ODDIE BLVD & ROCK BLVD
Vehicles Only	Minor Injury	PMX_34159	Possible/Minor Injury	Possible/Minor Injury		3:40:00 PM	4:00:00 PM	6/30/2021 15:40	0 Vehicle Only	PITTMAN AVE & S ROCK BLVD
Vehicles Only	Possible Injury	PMX_37319	Possible/Minor Injury	Possible/Minor Injury		9:26:00 AM	9:00:00 AM	7/2/2021 9:26	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Vehicles Only	Unknown	PMX_31772	Property Damage Only	PDO		10:32:00 PM	11:00:00 PM	7/3/2021 22:32	0 Vehicle Only	IR80 E TO S ROCK BLVD & ROCK BLVD
Vehicles Only	No Injury	PMX_31920	Property Damage Only	PDO		4:24:00 PM	4:00:00 PM	7/7/2021 16:24	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	No Injury	PMX_32148	Property Damage Only	PDO		5:43:00 PM	6:00:00 PM	7/27/2021 17:43	0 Vehicle Only	ROCK BLVD & VICTORIAN AV
Vehicles Only	Possible Injury	PMX_37265	Possible/Minor Injury	Possible/Minor Injury		12:56:00 AM	1:00:00 AM	8/21/2021 0:56	0 Vehicle Only	N MCCARRAN BLVD & ROCK BLVD
Vehicles Only	Serious Injury	PMX_32273	Serious Injury	Serious Injury		12:07:00 AM	12:00:00 AM	8/21/2021 0:07	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Unknown	PMX_32241	Property Damage Only	PDO		11:08:00 PM	11:00:00 PM	8/28/2021 23:08	0 Vehicle Only	HYMER AVE & S ROCK BLVD
Vehicles Only	Unknown	PMX_32386	Property Damage Only	PDO		3:50:00 PM	4:00:00 PM	9/3/2021 15:50	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	No Injury	PMX_32229	Property Damage Only	PDO		6:09:00 PM	6:00:00 PM	9/7/2021 18:09	0 Vehicle Only	HYMER AVE & SR668
Vehicles Only	Serious Injury	PMX_32291	Serious Injury	Serious Injury		6:23:00 AM	6:00:00 AM	9/24/2021 6:23	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_31491	Property Damage Only	PDO		3:19:00 AM	3:00:00 AM	10/14/2021 3:19	0 Vehicle Only	IR80 E & ROCK BLVD
Vehicles Only	Possible Injury	PMX_31454	Possible/Minor Injury	Possible/Minor Injury		9:02:00 AM	9:00:00 AM	10/20/2021 9:02	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	No Injury	PMX_31566	Property Damage Only	PDO		6:44:00 AM	7:00:00 AM	10/30/2021 6:44	0 Vehicle Only	C ST & ROCK BLVD
Vehicles Only	Possible Injury	PMX_31603	Possible/Minor Injury	Possible/Minor Injury		8:34:00 AM	9:00:00 AM	11/13/2021 8:34	0 Vehicle Only	MCCARRAN BLVD & S ROCK BLVD
Vehicles Only	No Injury	PMX_31627	Property Damage Only	PDO		8:08:00 AM	8:00:00 AM	11/19/2021 8:08	0 Vehicle Only	IR80 E & ROCK BLVD
Vehicles Only	Possible Injury	PMX_31723	Possible/Minor Injury	Possible/Minor Injury		11:34:00 AM	12:00:00 PM	11/20/2021 11:34	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Vehicles Only	No Injury	PMX_31886	Property Damage Only	PDO		5:03:00 PM	5:00:00 PM	11/23/2021 17:03	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	No Injury	PMX_31685	Property Damage Only	PDO		8:04:00 AM	8:00:00 AM	11/27/2021 8:04	0 Vehicle Only	OXFORD AVE & ROCK BLVD
Vehicles Only	Minor Injury	PMX_31889	Possible/Minor Injury	Possible/Minor Injury		3:45:00 AM	4:00:00 AM	12/1/2021 3:45	0 Vehicle Only	ROCK BLVD & RUSSELL WAY
Vehicles Only	No Injury	PMX_31978	Property Damage Only	PDO		9:45:00 AM	10:00:00 AM	12/5/2021 9:45	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	Minor Injury	PMX_31844	Possible/Minor Injury	Possible/Minor Injury		11:36:00 AM	12:00:00 PM	12/9/2021 11:36	0 Vehicle Only	C ST & ROCK BLVD
Vehicles Only	No Injury	PMX_31908	Property Damage Only	PDO		3:47:00 PM	4:00:00 PM	12/9/2021 15:47	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	No Injury	PMX_31934	Property Damage Only	PDO		9:06:00 AM	9:00:00 AM	12/13/2021 9:06	0 Vehicle Only	ROCK BLVD & ZEPHYR WAY
Involved Bicyclist or Ped	Minor Injury	PMX_26780	Possible/Minor Injury (Pedestrian)	Possible/Minor Injury (Pedestrian)		7:32:00 PM	8:00:00 PM	1/2/2022 19:32	0 Pedestrian	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Possible Injury	PMX_26752	Possible/Minor Injury	Possible/Minor Injury		7:26:00 AM	7:00:00 AM	1/4/2022 7:26	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	No Injury	PMX_26807	Property Damage Only	PDO		1:19:00 PM	1:00:00 PM	1/7/2022 13:19	0 Vehicle Only	HYMER AVE & SR668
Vehicles Only	No Injury	PMX_26891	Property Damage Only	PDO		5:24:00 PM	5:00:00 PM	1/15/2022 17:24	0 Vehicle Only	SR668 & VICTORIAN AVE
Vehicles Only	No Injury	PMX_37635	Property Damage Only	PDO		8:09:00 AM	8:00:00 AM	1/19/2022 8:09	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	No Injury	PMX_26742	Property Damage Only	PDO		6:49:00 AM	7:00:00 AM	1/19/2022 6:49	0 Vehicle Only	SR668 & VICTORIAN AVE
Vehicles Only	Minor Injury	PMX_26868	Possible/Minor Injury	Possible/Minor Injury		9:10:00 PM	9:00:00 PM	1/21/2022 21:10	0 Vehicle Only	GLENDALE AVE & ROCK BLVD
Vehicles Only	No Injury	PMX_26874	Property Damage Only	PDO		8:25:00 AM	8:00:00 AM	1/24/2022 8:25	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_27054	Property Damage Only	PDO		4:02:00 PM	4:00:00 PM	2/1/2022 16:02	0 Vehicle Only	ROCK BLVD & UPTON WAY
Vehicles Only	Possible Injury	PMX_27023	Possible/Minor Injury	Possible/Minor Injury		6:40:00 AM	7:00:00 AM	2/2/2022 6:40	0 Vehicle Only	PITTMAN AVE & S ROCK BLVD
Vehicles Only	No Injury	PMX_27006	Property Damage Only	PDO		7:28:00 PM	7:00:00 PM	2/14/2022 19:28	0 Vehicle Only	HYMER AVE & SR668
Vehicles Only	Possible Injury	PMX_27153	Possible/Minor Injury	Possible/Minor Injury		4:22:00 PM	4:00:00 PM	2/14/2022 16:22	0 Vehicle Only	ROCK BLVD & UPTON WAY
Vehicles Only	No Injury	PMX_27201	Property Damage Only	PDO		8:13:00 AM	8:00:00 AM	2/23/2022 8:13	0 Vehicle Only	ROCK BLVD & RUSSELL WAY
Vehicles Only	No Injury	PMX_27292	Property Damage Only	PDO		8:54:00 AM	9:00:00 AM	3/4/2022 8:54	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Vehicles Only	Minor Injury	PMX_27288	Possible/Minor Injury	Possible/Minor Injury		12:22:00 PM	12:00:00 PM	3/10/2022 12:22	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	No Injury	PMX_27357	Property Damage Only	PDO		4:48:00 PM	5:00:00 PM	3/14/2022 16:48	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	No Injury	PMX_27539	Property Damage Only	PDO		8:37:00 AM	9:00:00 AM	3/21/2022 8:37	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	No Injury	PMX_27475	Property Damage Only	PDO		2:12:00 PM	2:00:00 PM	3/22/2022 14:12	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	No Injury	PMX_27451	Property Damage Only	PDO		6:47:00 PM	7:00:00 PM	3/23/2022 18:47	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	No Injury	PMX_27540	Property Damage Only	PDO		9:45:00 AM	10:00:00 AM	3/28/2022 9:45	0 Vehicle Only	PRATER WAY & SR668
Vehicles Only	Possible Injury	PMX_30530	Possible/Minor Injury	Possible/Minor Injury		10:38:00 AM	11:00:00 AM	4/1/2022 10:38	0 Vehicle Only	I ST & ROCK BLVD
Vehicles Only	No Injury	PMX_30503	Property Damage Only	PDO		4:24:00 PM	4:00:00 PM	4/3/2022 16:24	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	No Injury	PMX_30504	Property Damage Only	PDO		10:47:00 AM	11:00:00 AM	4/11/2022 10:47	0 Vehicle Only	MCCARRAN BLVD & ROCK BLVD
Vehicles Only	No Injury	PMX_30633	Property Damage Only	PDO		9:47:00 AM	10:00:00 AM	4/14/2022 9:47	0 Vehicle Only	GAULT WAY & ROCK BLVD
Vehicles Only	Possible Injury	PMX_30713	Possible/Minor Injury	Possible/Minor Injury		6:04:00 PM	6:00:00 PM	4/25/2022 18:04	0 Vehicle Only	SR668 & SR668 TO IR80W INT17
Vehicles Only	No Injury	PMX_30708	Property Damage Only	PDO		1:45:00 PM	2:00:00 PM	4/26/2022 13:45	0 Vehicle Only	GREG ST & S ROCK BLVD
Vehicles Only	Minor Injury	PMX_30695	Possible/Minor Injury	Possible/Minor Injury		7:17:00 AM	7:00:00 AM	4/27/2022 7:17	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Possible Injury	PMX_30834	Possible/Minor Injury	Possible/Minor Injury		9:41:00 PM	10:00:00 PM	4/30/2022 21:41	0 Vehicle Only	HYMER AVE & S ROCK BLVD
Vehicles Only	No Injury	PMX_38262	Property Damage Only	PDO		7:20:00 AM	7:00:00 AM	5/3/2022 7:20	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Possible Injury	PMX_30959	Possible/Minor Injury	Possible/Minor Injury		10:26:00 PM	10:00:00 PM	5/18/2022 22:26	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Possible Injury	PMX_30921	Possible/Minor Injury	Possible/Minor Injury		1:27:00 PM	1:00:00 PM	5/21/2022 13:27	0 Vehicle Only	H ST & ROCK BLVD
Vehicles Only	No Injury	PMX_30909	Property Damage Only	PDO		10:04:00 AM	10:00:00 AM	5/21/2022 10:04	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Possible Injury	PMX_38316	Possible/Minor Injury	Possible/Minor Injury		2:28:00 PM	2:00:00 PM	5/23/2022 14:28	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Possible Injury	PMX_30907	Possible/Minor Injury	Possible/Minor Injury		2:42:00 PM	3:00:00 PM	5/24/2022 14:42	0 Vehicle Only	S ROCK BLVD & SHABER AVE
Vehicles Only	No Injury	PMX_38318	Property Damage Only	PDO		5:16:00 PM	5:00:00 PM	5/25/2022 17:16	0 Vehicle Only	ROCK BLVD & ROCK BLVD TO IR80E RAMP
Vehicles Only	No Injury	PMX_31065	Property Damage Only	PDO		3:30:00 PM	4:00:00 PM	5/26/2022 15:30	0 Vehicle Only	PRATER WAY & ROCK BLVD
Vehicles Only	No Injury	PMX_31035	Property Damage Only	PDO		3:20:00 PM	3:00:00 PM	5/27/2022 15:20	0 Vehicle Only	HYMER AVE & SR668
Vehicles Only	No Injury	PMX_31139	Property Damage Only	PDO		9:46:00 PM	10:00:00 PM	5/27/2022 21:46	0 Vehicle Only	ROCK BLVD & VANCE WAY
Vehicles Only	No Injury	PMX_31170	Property Damage Only	PDO		2:10:00 AM	2:00:00 AM	5/28/2022 2:10	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	No Injury	PMX_31072	Property Damage Only	PDO		8:00:00 AM	8:00:00 AM	5/31/2022 8:00	0 Vehicle Only	HYMER AVE & SR668
Vehicles Only	Possible Injury	PMX_31124	Possible/Minor Injury	Possible/Minor Injury		2:55:00 PM	3:00:00 PM	6/3/2022 14:55	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Vehicles Only	No Injury	PMX_31042	Property Damage Only	PDO		11:10:00 AM	11:00:00 AM	6/3/2022 11:10	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Fatal	PMX_31219	Fatal	Fatal		12:27:00 PM	12:00:00 PM	6/16/2022 12:27	0 Vehicle Only	GLENDALE AVE & ROCK BLVD
Vehicles Only	Possible Injury	PMX_31315	Possible/Minor Injury	Possible/Minor Injury		6:26:00 PM	6:00:00 PM	6/18/2022 18:26	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Vehicles Only	No Injury	PMX_31207	Property Damage Only	PDO		2:53:00 PM	3:00:00 PM	6/21/2022 14:53	0 Vehicle Only	PRATER WAY & ROCK BLVD

NDOT Crash Data

PMX AT Crashes	PMX InjuryType	PMX UI	WebmapSymbology	KTWL Study Corridors	CrashLocation	PMX NormalizeTime	PMX Timeframes	PMX DayTime	UserType	PMX Intersection Location
Vehicles Only	Minor Injury	PMX_27685	Possible/Minor Injury	Possible/Minor Injury	12:13:00 PM	12:00:00 PM	7/3/2022 12:13	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE	
Vehicles Only	Possible Injury	PMX_27781	Possible/Minor Injury	Possible/Minor Injury	9:59:00 AM	10:00:00 AM	7/8/2022 9:59	0 Vehicle Only	ODDIE BLVD & ROCK BLVD	
Vehicles Only	No Injury	PMX_27696	Property Damage Only	PDO	9:46:00 AM	10:00:00 AM	7/10/2022 9:46	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE	
Vehicles Only	Possible Injury	PMX_27681	Possible/Minor Injury	Possible/Minor Injury	3:48:00 PM	4:00:00 PM	7/13/2022 15:48	0 Vehicle Only	SR668 & SR668 TO IR80W INT17	
Vehicles Only	Possible Injury	PMX_27759	Possible/Minor Injury	Possible/Minor Injury	4:32:00 PM	5:00:00 PM	7/19/2022 16:32	0 Vehicle Only	GREG ST & S ROCK BLVD	
Vehicles Only	No Injury	PMX_28057	Property Damage Only	PDO	8:36:00 PM	9:00:00 PM	8/2/2022 20:36	0 Vehicle Only	PRATER WAY & SR668	
Vehicles Only	No Injury	PMX_27992	Property Damage Only	PDO	11:28:00 PM	11:00:00 PM	8/3/2022 23:28	0 Vehicle Only	SR668 & VICTORIAN AVE	
Vehicles Only	Minor Injury	PMX_28050	Possible/Minor Injury	Possible/Minor Injury	8:08:00 AM	8:00:00 AM	8/9/2022 8:08	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE	
Vehicles Only	Possible Injury	PMX_28202	Possible/Minor Injury	Possible/Minor Injury	4:34:00 PM	5:00:00 PM	8/13/2022 16:34	0 Vehicle Only	SR668 & VICTORIAN AVE	
Vehicles Only	Minor Injury	PMX_28166	Possible/Minor Injury	Possible/Minor Injury	12:50:00 PM	1:00:00 PM	8/16/2022 12:50	0 Vehicle Only	S ROCK BLVD & SHABER AVE	
Vehicles Only	Possible Injury	PMX_28311	Possible/Minor Injury	Possible/Minor Injury	9:36:00 AM	10:00:00 AM	8/23/2022 9:36	0 Vehicle Only	GLENDALE AVE & ROCK BLVD	
Involved Bicyclist or Ped	Minor Injury	PMX_28405	Possible/Minor Injury (Pedestrian)	Possible/Minor Injury (Pedestrian)	6:10:00 PM	6:00:00 PM	8/26/2022 18:10	0 Pedestrian	GREENBRAE DR & ROCK BLVD	
Vehicles Only	Serious Injury	PMX_28468	Serious Injury	Serious Injury	4:22:00 PM	4:00:00 PM	9/3/2022 16:22	0 Vehicle Only	ROCK BLVD & SR648	
Vehicles Only	Possible Injury	PMX_28856	Possible/Minor Injury	Possible/Minor Injury	5:45:00 PM	6:00:00 PM	9/13/2022 17:45	0 Vehicle Only	ROCK BLVD & SR648	
Vehicles Only	No Injury	PMX_28693	Property Damage Only	PDO	2:53:00 PM	3:00:00 PM	9/13/2022 14:53	0 Vehicle Only	ROCK BLVD & SR659	
Vehicles Only	Possible Injury	PMX_28815	Possible/Minor Injury	Possible/Minor Injury	1:09:00 PM	1:00:00 PM	9/15/2022 13:09	0 Vehicle Only	SR668 & VICTORIAN AVE	
Involved Bicyclist or Ped	No Injury	PMX_28964	Property Damage Only	PDO	2:24:00 PM	2:00:00 PM	9/21/2022 14:24	0 Bicyclist	GREENBRAE DR & ROCK BLVD	
Vehicles Only	No Injury	PMX_28917	Property Damage Only	PDO	12:00:00 PM	12:00:00 PM	9/21/2022 12:00	0 Vehicle Only	GREG ST & S ROCK BLVD	
Vehicles Only	No Injury	PMX_28869	Property Damage Only	PDO	6:40:00 AM	7:00:00 AM	9/21/2022 6:40	0 Vehicle Only	SR668 & SR668 TO IR80E INT17	
Involved Bicyclist or Ped	Possible Injury	PMX_28883	Possible/Minor Injury (Bicyclist)	Possible/Minor Injury (Bicyclist)	6:58:00 AM	7:00:00 AM	9/22/2022 6:58	0 Bicyclist	15TH ST & ROCK BLVD	
Vehicles Only	Possible Injury	PMX_29013	Possible/Minor Injury	Possible/Minor Injury	3:03:00 PM	3:00:00 PM	9/24/2022 15:03	0 Vehicle Only	COMMERCE ST & ROCK BLVD	
Vehicles Only	No Injury	PMX_28979	Property Damage Only	PDO	5:23:00 PM	5:00:00 PM	9/27/2022 17:23	0 Vehicle Only	ODDIE BLVD & ROCK BLVD	
Vehicles Only	Possible Injury	PMX_29127	Possible/Minor Injury	Possible/Minor Injury	6:41:00 AM	7:00:00 AM	9/29/2022 6:41	0 Vehicle Only	SR668 & SR668 TO IR80W INT17	
Vehicles Only	Possible Injury	PMX_29208	Possible/Minor Injury	Possible/Minor Injury	5:23:00 PM	5:00:00 PM	10/5/2022 17:23	0 Vehicle Only	FREEPORT BLVD & S ROCK BLVD	
Vehicles Only	No Injury	PMX_29482	Property Damage Only	PDO	5:50:00 PM	6:00:00 PM	10/8/2022 17:50	0 Vehicle Only	PRATER WAY & SR668	
Vehicles Only	No Injury	PMX_29182	Property Damage Only	PDO	9:13:00 AM	9:00:00 AM	10/10/2022 9:13	0 Vehicle Only	GREENBRAE DR & ROCK BLVD	
Vehicles Only	No Injury	PMX_29401	Property Damage Only	PDO	5:45:00 PM	6:00:00 PM	10/12/2022 17:45	0 Vehicle Only	1ST & ROCK BLVD	
Vehicles Only	No Injury	PMX_29674	Property Damage Only	PDO	9:46:00 PM	10:00:00 PM	10/29/2022 21:46	0 Vehicle Only	ODDIE BLVD & ROCK BLVD	
Vehicles Only	Possible Injury	PMX_29593	Possible/Minor Injury	Possible/Minor Injury	2:22:00 PM	2:00:00 PM	11/1/2022 14:22	0 Vehicle Only	PRATER WAY & ROCK BLVD	
Involved Bicyclist or Ped	Minor Injury	PMX_29822	Possible/Minor Injury (Bicyclist)	Possible/Minor Injury (Bicyclist)	9:38:00 AM	10:00:00 AM	11/7/2022 9:38	0 Bicyclist	GREENBRAE DR & ROCK BLVD	
Vehicles Only	Possible Injury	PMX_29764	Possible/Minor Injury	Possible/Minor Injury	6:13:00 PM	6:00:00 PM	11/7/2022 18:13	0 Vehicle Only	GREENBRAE DR & ROCK BLVD	
Vehicles Only	Possible Injury	PMX_29672	Possible/Minor Injury	Possible/Minor Injury	11:30:00 PM	12:00:00 AM	11/11/2022 23:30	0 Vehicle Only	ROCK BLVD & TYLER WAY	
Vehicles Only	Possible Injury	PMX_29892	Possible/Minor Injury	Possible/Minor Injury	6:32:00 PM	7:00:00 PM	11/14/2022 18:32	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE	
Involved Bicyclist or Ped	No Injury	PMX_30035	Property Damage Only	PDO	1:07:00 PM	1:00:00 PM	11/24/2022 13:07	0 Pedestrian	SR668 & VICTORIAN AVE	
Vehicles Only	No Injury	PMX_29980	Property Damage Only	PDO	11:30:00 PM	12:00:00 AM	11/26/2022 23:30	0 Vehicle Only	ODDIE BLVD & ROCK BLVD	
Vehicles Only	No Injury	PMX_30202	Property Damage Only	PDO	9:58:00 AM	10:00:00 AM	12/3/2022 9:58	0 Vehicle Only	SR668 & VICTORIAN AVE	
Vehicles Only	Possible Injury	PMX_30225	Possible/Minor Injury	Possible/Minor Injury	1:00:00 PM	1:00:00 PM	12/4/2022 13:00	0 Vehicle Only	C ST & SR668	
Vehicles Only	No Injury	PMX_30261	Property Damage Only	PDO	3:51:00 PM	4:00:00 PM	12/8/2022 15:51	0 Vehicle Only	S ROCK BLVD & SR648	
Vehicles Only	Possible Injury	PMX_30289	Possible/Minor Injury	Possible/Minor Injury	12:48:00 PM	1:00:00 PM	12/9/2022 12:48	0 Vehicle Only	GREENBRAE DR & ROCK BLVD	
Vehicles Only	No Injury	PMX_25817	Property Damage Only	PDO	1:03:00 PM	1:00:00 PM	1/6/2023 13:03	0 Vehicle Only	SR668 & SR668 TO IR80E INT17	
Vehicles Only	Possible Injury	PMX_25971	Possible/Minor Injury	Possible/Minor Injury	6:15:00 PM	6:00:00 PM	1/12/2023 18:15	0 Vehicle Only	GREENBRAE DR & ROCK BLVD	
Vehicles Only	Possible Injury	PMX_26211	Possible/Minor Injury	Possible/Minor Injury	9:53:00 AM	10:00:00 AM	1/24/2023 9:53	0 Vehicle Only	GREG ST & S ROCK BLVD	
Vehicles Only	No Injury	PMX_26116	Property Damage Only	PDO	1:41:00 PM	2:00:00 PM	1/25/2023 13:41	0 Vehicle Only	GREENBRAE DR & ROCK BLVD	
Vehicles Only	Possible Injury	PMX_26252	Possible/Minor Injury	Possible/Minor Injury	8:06:00 AM	8:00:00 AM	1/27/2023 8:06	0 Vehicle Only	G ST & ROCK BLVD	
Vehicles Only	No Injury	PMX_26149	Property Damage Only	PDO	7:20:00 AM	7:00:00 AM	1/28/2023 7:20	0 Vehicle Only	PRATER WAY & SR668	
Vehicles Only	Unknown	PMX_26322	Property Damage Only	PDO	11:21:00 AM	11:00:00 AM	1/29/2023 11:21	0 Vehicle Only	GREENBRAE DR & ROCK BLVD	
Vehicles Only	Possible Injury	PMX_25980	Possible/Minor Injury	Possible/Minor Injury	12:23:00 PM	12:00:00 PM	1/29/2023 12:23	0 Vehicle Only	ODDIE BLVD & ROCK BLVD	
Vehicles Only	No Injury	PMX_26651	Property Damage Only	PDO	8:54:00 PM	9:00:00 PM	2/17/2023 20:54	0 Vehicle Only	HYMER AVE & S ROCK BLVD	
Vehicles Only	Possible Injury	PMX_26353	Possible/Minor Injury	Possible/Minor Injury	3:53:00 PM	4:00:00 PM	2/27/2023 15:53	0 Vehicle Only	GREG ST & S ROCK BLVD	
Vehicles Only	No Injury	PMX_27534	Property Damage Only	PDO	6:43:00 PM	7:00:00 PM	3/2/2023 18:43	0 Vehicle Only	PRATER WAY & ROCK BLVD	
Vehicles Only	No Injury	PMX_30272	Property Damage Only	PDO	4:45:00 AM	5:00:00 AM	3/12/2023 4:45	0 Vehicle Only	PRATER WAY & ROCK BLVD	
Vehicles Only	Possible Injury	PMX_28104	Possible/Minor Injury	Possible/Minor Injury	9:25:00 AM	9:00:00 AM	3/14/2023 9:25	0 Vehicle Only	IR80E TO SR668 INT17 & SR668	
Vehicles Only	No Injury	PMX_31911	Property Damage Only	PDO	3:46:00 PM	4:00:00 PM	3/23/2023 15:46	0 Vehicle Only	SR668 & VICTORIAN AVE	
Vehicles Only	No Injury	PMX_32323	Property Damage Only	PDO	4:12:00 PM	4:00:00 PM	4/12/2023 16:12	0 Vehicle Only	C ST & SR668	
Vehicles Only	No Injury	PMX_32233	Property Damage Only	PDO	3:43:00 PM	4:00:00 PM	4/12/2023 15:43	0 Vehicle Only	HYMER AVE & SR668	
Vehicles Only	Possible Injury	PMX_32384	Possible/Minor Injury	Possible/Minor Injury	6:32:00 PM	7:00:00 PM	4/15/2023 18:32	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE	
Vehicles Only	No Injury	PMX_32884	Property Damage Only	PDO	4:45:00 PM	5:00:00 PM	4/17/2023 16:45	0 Vehicle Only	S ROCK BLVD & SR648	
Vehicles Only	No Injury	PMX_33726	Property Damage Only	PDO	3:45:00 PM	4:00:00 PM	4/23/2023 15:45	0 Vehicle Only	1ST & ROCK BLVD	
Vehicles Only	No Injury	PMX_35833	Property Damage Only	PDO	6:48:00 PM	7:00:00 PM	5/6/2023 18:48	0 Vehicle Only	IR80E TO SR668 INT17 & SR668	
Vehicles Only	No Injury	PMX_35835	Property Damage Only	PDO	4:52:00 PM	5:00:00 PM	5/6/2023 16:52	0 Vehicle Only	SR668 & VICTORIAN AVE	
Vehicles Only	Possible Injury	PMX_35805	Possible/Minor Injury	Possible/Minor Injury	8:21:00 AM	8:00:00 AM	5/10/2023 8:21	0 Vehicle Only	GREG ST & S ROCK BLVD	
Vehicles Only	No Injury	PMX_35847	Property Damage Only	PDO	6:21:00 PM	6:00:00 PM	5/11/2023 18:21	0 Vehicle Only	GREENBRAE DR & ROCK BLVD	
Vehicles Only	Possible Injury	PMX_35962	Possible/Minor Injury	Possible/Minor Injury	10:06:00 AM	10:00:00 AM	5/16/2023 10:06	0 Vehicle Only	GREENBRAE DR & ROCK BLVD	
Vehicles Only	No Injury	PMX_36559	Property Damage Only	PDO	5:28:00 PM	5:00:00 PM	5/16/2023 17:28	0 Vehicle Only	GREENBRAE DR & ROCK BLVD	
Vehicles Only	Possible Injury	PMX_35848	Possible/Minor Injury	Possible/Minor Injury	5:17:00 AM	5:00:00 AM	5/20/2023 5:17	0 Vehicle Only	D ST & ROCK BLVD	
Vehicles Only	No Injury	PMX_39965	Property Damage Only	PDO	3:03:00 PM	3:00:00 PM	5/20/2023 15:03	0 Vehicle Only	ROCK BLVD & SR659	
Vehicles Only	Possible Injury	PMX_36101	Possible/Minor Injury	Possible/Minor Injury	10:15:00 PM	10:00:00 PM	5/26/2023 22:15	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE	
Vehicles Only	Minor Injury	PMX_36135	Possible/Minor Injury	Possible/Minor Injury	6:43:00 AM	7:00:00 AM	6/2/2023 6:43	0 Vehicle Only	ROCK BLVD & YORK WAY	
Vehicles Only	No Injury	PMX_36095	Property Damage Only	PDO	8:55:00 AM	9:00:00 AM	6/4/2023 8:55	0 Vehicle Only	IR80E TO ROCK BLVD INT17 & SR668	
Vehicles Only	Possible Injury	PMX_36100	Possible/Minor Injury	Possible/Minor Injury	3:24:00 PM	3:00:00 PM	6/4/2023 15:24	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE	
Vehicles Only	No Injury	PMX_36224	Property Damage Only	PDO	3:54:00 PM	4:00:00 PM	6/7/2023 15:54	0 Vehicle Only	PRATER WAY & SR668	
Vehicles Only	No Injury	PMX_36331	Property Damage Only	PDO	10:45:00 AM	11:00:00 AM	6/20/2023 10:45	0 Vehicle Only	S ROCK BLVD & SR648	
Vehicles Only	Minor Injury	PMX_36305	Possible/Minor Injury	Possible/Minor Injury	9:07:00 PM	9:00:00 PM	6/23/2023 21:07	0 Vehicle Only	SR668 & VICTORIAN AVE	
Vehicles Only	No Injury	PMX_36584	Property Damage Only	PDO	6:22:00 PM	6:00:00 PM	7/4/2023 18:22	0 Vehicle Only	GREENBRAE DR & ROCK BLVD	
Vehicles Only	No Injury	PMX_36587	Property Damage Only	PDO	8:32:00 AM	9:00:00 AM	7/12/2023 8:32	0 Vehicle Only	GREG ST & S ROCK BLVD	
Vehicles Only	Possible Injury	PMX_36548	Possible/Minor Injury	Possible/Minor Injury	5:05:00 PM	5:00:00 PM	7/20/2023 17:05	0 Vehicle Only	GREG ST & S ROCK BLVD	
Vehicles Only	Possible Injury	PMX_40278	Possible/Minor Injury	Possible/Minor Injury	5:46:00 PM	6:00:00 PM	7/24/2023 17:46	0 Vehicle Only	G ST & ROCK BLVD	
Vehicles Only	No Injury	PMX_40372	Property Damage Only	PDO	11:15:00 AM	11:00:00 AM	7/24/2023 11:15	0 Vehicle Only	S ROCK BLVD & SR648	
Vehicles Only	No Injury	PMX_40311	Property Damage Only	PDO	7:30:00 AM	8:00:00 AM	7/26/2023 7:30	0 Vehicle Only	ROCK BLVD & ROCK BLVD TO IR80W INT17	
Vehicles Only	No Injury	PMX_36748	Property Damage Only	PDO	1:26:00 PM	1:00:00 PM	7/31/2023 13:26	0 Vehicle Only	PRATER WAY & SR668	
Involved Bicyclist or Ped	Minor Injury	PMX_36674	Possible/Minor Injury (Bicyclist)	Possible/Minor Injury (Bicyclist)	10:22:00 PM	10:00:00 PM	8/1/2023 22:22	0 Bicyclist	SR668 & VICTORIAN AVE	
Vehicles Only	No Injury	PMX_37924	Property Damage Only	PDO	6:13:00 PM	6:00:00 PM	8/4/2023 18:13	0 Vehicle Only	GLENDALE AVE & S ROCK BLVD	
Vehicles Only	No Injury	PMX_37268	Property Damage Only	PDO	10:50:00 PM	11:00:00 PM	8/4/2023 22:50	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE	
Vehicles Only	Unknown	PMX_37303	Property Damage Only	PDO	12:20:00 AM	12:00:00 AM	8/5/2023 0:20	0 Vehicle Only	D ST & ROCK BLVD	
Vehicles Only	No Injury	PMX_37475	Property Damage Only	PDO	3:41:00 PM	4:00:00 PM	8/8/2023 15:41	0 Vehicle Only	SR668 & SR668 TO IR80E INT17	
Vehicles Only	Possible Injury	PMX_37641	Possible/Minor Injury	Possible/Minor Injury	4:55:00 PM	5:00:00 PM	8/10/2023 16:55	0 Vehicle Only	GLENDALE AVE & S ROCK BLVD	
Vehicles Only	Possible Injury	PMX_39445	Possible/Minor Injury	Possible/Minor Injury	5:52:00 PM	6:00:00 PM	8/10/2023 17:52	0 Vehicle Only	GLENDALE AVE & S ROCK BLVD	
Involved Bicyclist or Ped	Possible Injury	PMX_39638	Possible/Minor Injury (Pedestrian)							

NDOT Crash Data

PMX AT Crashes	PMX InjuryType	PMX UI	WebmapSymbology	KTWL Study Corridors	CrashLocation	PMX NormalizeTime	PMX Timeframes	PMX DayTime	UserType	PMX Intersection Location
Vehicles Only	No Injury	PMX_41058	Property Damage Only	PDO		7:37:00 AM	8:00:00 AM	9/15/2023 7:37	0 Vehicle Only	IR80W TO ROCK BLVD INT17 & SR668
Vehicles Only	Possible Injury	PMX_40942	Possible/Minor Injury	Possible/Minor Injury		6:44:00 AM	7:00:00 AM	9/19/2023 6:44	0 Vehicle Only	ROCK BLVD & VICTORIAN AVE
Vehicles Only	Minor Injury	PMX_41956	Possible/Minor Injury	Possible/Minor Injury		7:25:00 PM	7:00:00 PM	9/22/2023 19:25	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	Minor Injury	PMX_40883	Possible/Minor Injury	Possible/Minor Injury		5:40:00 PM	6:00:00 PM	9/23/2023 17:40	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	Possible Injury	PMX_41203	Possible/Minor Injury	Possible/Minor Injury		4:35:00 PM	5:00:00 PM	9/29/2023 16:35	0 Vehicle Only	PRATER WAY & ROCK BLVD
Vehicles Only	Possible Injury	PMX_41214	Possible/Minor Injury	Possible/Minor Injury		9:57:00 AM	10:00:00 AM	10/6/2023 9:57	0 Vehicle Only	S ROCK BLVD & SR648
Vehicles Only	Possible Injury	PMX_41244	Possible/Minor Injury	Possible/Minor Injury		10:00:00 PM	10:00:00 PM	10/7/2023 22:00	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	No Injury	PMX_41323	Property Damage Only	PDO		5:16:00 PM	5:00:00 PM	10/8/2023 17:16	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	No Injury	PMX_41604	Property Damage Only	PDO		6:03:00 AM	6:00:00 AM	10/9/2023 6:03	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Involved Bicyclist or Ped	Minor Injury	PMX_41222	Possible/Minor Injury (Bicyclist)	Possible/Minor Injury (Bicyclist)		6:36:00 AM	7:00:00 AM	10/10/2023 6:36	0 Bicyclist	PRATER WAY & ROCK BLVD
Vehicles Only	Possible Injury	PMX_41168	Possible/Minor Injury	Possible/Minor Injury		7:01:00 AM	7:00:00 AM	10/12/2023 7:01	0 Vehicle Only	S ROCK BLVD & SHABER AVE
Vehicles Only	No Injury	PMX_41807	Property Damage Only	PDO		9:05:00 PM	9:00:00 PM	10/21/2023 21:05	0 Vehicle Only	ROCK BLVD & SR659
Vehicles Only	No Injury	PMX_41480	Property Damage Only	PDO		12:39:00 PM	1:00:00 PM	10/25/2023 12:39	0 Vehicle Only	SR668 & VICTORIAN AVE
Vehicles Only	Possible Injury	PMX_41592	Possible/Minor Injury	Possible/Minor Injury		2:50:00 PM	3:00:00 PM	10/26/2023 14:50	0 Vehicle Only	COMMERCE ST & ROCK BLVD
Vehicles Only	No Injury	PMX_41540	Property Damage Only	PDO		2:21:00 PM	2:00:00 PM	10/27/2023 14:21	0 Vehicle Only	I ST & ROCK BLVD
Vehicles Only	No Injury	PMX_42025	Property Damage Only	PDO		12:25:00 PM	12:00:00 PM	11/7/2023 12:25	0 Vehicle Only	HYMER AVE & SR668
Vehicles Only	Possible Injury	PMX_41793	Possible/Minor Injury	Possible/Minor Injury		12:18:00 PM	12:00:00 PM	11/8/2023 12:18	0 Vehicle Only	SR668 & SR668 TO IR80E INT17
Vehicles Only	Unknown	PMX_41953	Property Damage Only	PDO		7:15:00 PM	7:00:00 PM	11/11/2023 19:15	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Vehicles Only	Unknown	PMX_42939	Property Damage Only	PDO		9:18:00 PM	9:00:00 PM	11/19/2023 21:18	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Vehicles Only	Possible Injury	PMX_42779	Possible/Minor Injury	Possible/Minor Injury		1:15:00 PM	1:00:00 PM	11/19/2023 13:15	0 Vehicle Only	ROCK BLVD & SR648
Vehicles Only	Possible Injury	PMX_42550	Possible/Minor Injury	Possible/Minor Injury		10:48:00 AM	11:00:00 AM	11/22/2023 10:48	0 Vehicle Only	PITTMAN AVE & S ROCK BLVD
Involved Bicyclist or Ped	Possible Injury	PMX_42588	Possible/Minor Injury (Pedestrian)	Possible/Minor Injury (Pedestrian)		6:55:00 AM	7:00:00 AM	11/22/2023 6:55	0 Pedestrian	SR668 & VICTORIAN AVE
Vehicles Only	Unknown	PMX_42536	Property Damage Only	PDO		11:51:00 AM	12:00:00 PM	11/24/2023 11:51	0 Vehicle Only	GREENBRAE DR & ROCK BLVD
Vehicles Only	Possible Injury	PMX_42663	Possible/Minor Injury	Possible/Minor Injury		4:18:00 PM	4:00:00 PM	11/25/2023 16:18	0 Vehicle Only	ROCK BLVD & YORK WAY
Vehicles Only	No Injury	PMX_42956	Property Damage Only	PDO		2:00:00 PM	2:00:00 PM	11/30/2023 14:00	0 Vehicle Only	S ROCK BLVD & SHABER AVE
Vehicles Only	No Injury	PMX_42955	Property Damage Only	PDO		6:15:00 PM	6:00:00 PM	12/3/2023 18:15	0 Vehicle Only	ODDIE BLVD & ROCK BLVD
Involved Bicyclist or Ped	Fatal	PMX_42597	Fatal (Pedestrian)	Fatal (Pedestrian)		5:25:00 PM	5:00:00 PM	12/7/2023 17:25	0 Pedestrian	IR80E TO ROCK BLVD INT17 & SR668
Involved Bicyclist or Ped	Unknown	PMX_42600	Property Damage Only	PDO		3:34:00 PM	4:00:00 PM	12/9/2023 15:34	0 Pedestrian	C ST & ROCK BLVD
Vehicles Only	No Injury	PMX_42755	Property Damage Only	PDO		2:37:00 PM	3:00:00 PM	12/12/2023 14:37	0 Vehicle Only	HYMER AVE & SR668
Vehicles Only	No Injury	PMX_42497	Property Damage Only	PDO		5:27:00 PM	5:00:00 PM	12/12/2023 17:27	0 Vehicle Only	IR80E TO SR668 INT17 & SR668
Vehicles Only	No Injury	PMX_42900	Property Damage Only	PDO		12:14:00 PM	12:00:00 PM	12/18/2023 12:14	0 Vehicle Only	SR668 & VICTORIAN AVE
Vehicles Only	No Injury	PMX_42582	Property Damage Only	PDO		5:39:00 PM	6:00:00 PM	12/22/2023 17:39	0 Vehicle Only	D ST & SR668
Vehicles Only	Unknown	PMX_42859	Property Damage Only	PDO		6:47:00 AM	7:00:00 AM	12/24/2023 6:47	0 Vehicle Only	15TH ST & ROCK BLVD

City of Sparks Crash Data

Date	Time	H & R	Case #	Street 1	Street 2	PMX_Location	PMX_Year
11/5/2025	1658	No	SPPD25-8044	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2025
11/3/2025	1023	No	SPPD25-7981	S ROCK BLVD	FREEPORT BLVD	FREEPORT BLVD & S ROCK BLVD	2025
11/3/2025	1118	No	SPPD25-7983	ROCK BLVD	GLENDALE AVE	GLENDALE AVE & ROCK BLVD	2025
11/3/2025	1028	No	SPPD25-7982	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2025
11/1/2025	1031	No	SPPD25-7930	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2025
10/31/2025	2140	Yes	SPPD25-7910	ROCK BLVD	H ST	H ST & ROCK BLVD	2025
10/29/2025	1912	No	SPPD25-7856	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2025
10/26/2025	1206	No	SPPD25-7773	ROCK BLVD	YORK WAY	ROCK BLVD & YORK WAY	2025
10/25/2025	1337	No	SPPD25-7751	ROCK BLVD	IR80E TO ROCK BLVD INT17	IR80E TO ROCK BLVD INT17 & ROCK BLVD	2025
10/23/2025	1901	No	SPPD25-7699	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2025
10/22/2025	1145	No	SPPD25-7646	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2025
10/16/2025	1831	No	SPPD25-7489	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2025
10/13/2025	1655	No	SPPD25-7416	ROCK BLVD	IR80E	IR80E & ROCK BLVD	2025
10/10/2025	1747	No	SPPD25-7332	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2025
10/10/2025	1849	No	SPPD25-7336	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2025
10/8/2025	1304	No	SPPD25-7278	ROCK BLVD	IR80W	IR80W & ROCK BLVD	2025
10/2/2025	137	No	SPPD25-7104	ROCK BLVD	I ST	I ST & ROCK BLVD	2025
10/2/2025	1047	No	SPPD25-7110	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2025
10/2/2025	2246	No	SPPD25-7133	S ROCK BLVD	VICTORIAN AVE	S ROCK BLVD & VICTORIAN AVE	2025
9/25/2025	1712	No	SPPD25-6933	ROCK BLVD	TYLER WAY	ROCK BLVD & TYLER WAY	2025
9/20/2025	1808	No	SPPD25-6793-P1	ROCK BLVD	GREG ST	GREG ST & ROCK BLVD	2025
9/20/2025	1808	No	SPPD25-6793	ROCK BLVD	GREG ST	GREG ST & ROCK BLVD	2025
9/16/2025	1733	No	SPPD25-6680	ROCK BLVD	F ST	F ST & ROCK BLVD	2025
9/16/2025	1626	No	SPPD25-6671	S ROCK BLVD	IR80 EB OFF RAMP	IR80 EB OFF RAMP & S ROCK BLVD	2025
9/6/2025	1744	No	SPPD25-6417	ROCK BLVD	IR80E TO ROCK BLVD INT17	IR80E TO ROCK BLVD INT17 & ROCK BLVD	2025
9/4/2025	1841	No	SPPD25-6356	ROCK BLVD	GAULT WAY	GAULT WAY & ROCK BLVD	2025
8/22/2025	1513	No	SPPD25-6021	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2025
8/14/2025	900	No	SPPD25-5776	ROCK BLVD	GREG ST	GREG ST & ROCK BLVD	2025
8/11/2025	1537	Yes	SPPD25-5691	ROCK BLVD		Along Segment	2025
8/10/2025	314	Yes	SPPD25-5644	S ROCK BLVD	SHABER AVE	S ROCK BLVD & SHABER AVE	2025
8/6/2025	1200	Yes	SPPD25-5544	S ROCK BLVD		Along Segment	2025
8/4/2025	1357	No	SPPD25-5483	ROCK BLVD	YORK WAY	ROCK BLVD & YORK WAY	2025
8/3/2025	1435	No	SPPD25-5459	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2025
8/2/2025	1345	Yes	SPPD25-5484	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2025
7/31/2025	1705	No	SPPD25-5398	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2025
7/21/2025	302	No	SPPD25-5132	15TH ST	ROCK BLVD	15TH ST & ROCK BLVD	2025
7/17/2025	921	No	SPPD25-5031	MCCARRAN BLVD	ROCK BLVD	MCCARRAN BLVD & ROCK BLVD	2025
7/15/2025	1337	No	SPPD25-4981	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2025
7/12/2025	1757	No	SPPD25-4900	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2025
7/8/2025	1407	Yes	SPPD25-4786	IR80E TO ROCK BLVD	ROCK BLVD	IR80E TO ROCK BLVD & ROCK BLVD	2025
7/7/2025	2227	Yes	SPPD25-4769	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2025
7/6/2025	2024	No	SPPD25-4741	ROCK BLVD	C ST	C ST & ROCK BLVD	2025
7/6/2025	1527	No	SPPD25-4734	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2025
7/3/2025	940	No	SPPD25-4652	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2025
7/2/2025	1232	No	SPPD25-4634	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2025
6/21/2025	1932	No	SPPD25-4380	ROCK BLVD	MCCARRAN BLVD	MCCARRAN BLVD & ROCK BLVD	2025
6/17/2025	627	Yes	SPPD25-4253	ROCK BLVD	HYMER AVE	HYMER AVE & ROCK BLVD	2025
6/14/2025	2322	No	SPPD25-4189	C ST	ROCK BLVD	C ST & ROCK BLVD	2025
6/11/2025	1439	No	SPPD25-4096	ROCK BLVD	VANCE WAY	ROCK BLVD & VANCE WAY	2025
6/10/2025	1900	Yes	SPPD25-4075	S ROCK BLVD		Along Segment	2025
6/5/2025	1538	Yes	SPPD25-3921	S ROCK BLVD		Along Segment	2025
5/30/2025	927	Yes	SPPD25-3801	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2025
5/30/2025	2115	No	SPPD25-3813	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2025
5/29/2025	546	No	SPPD25-3775	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2025
5/29/2025	546	No	SPPD25-3775-P1	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2025
5/27/2025	430	Yes	SPPD25-3716	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2025
5/16/2025	1743	No	SPPD25-3446	ROCK BLVD		Along Segment	2025
5/10/2025	1645	No	SPPD25-3325	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2025
5/9/2025	1217	No	SPPD25-3297	ROCK BLVD	15TH ST	15TH ST & ROCK BLVD	2025
5/9/2025	1924	No	SPPD25-3308	ROCK BLVD	VANCE WAY	ROCK BLVD & VANCE WAY	2025
5/8/2025	1649	No	SPPD25-3281	I ST	ROCK BLVD	I ST & ROCK BLVD	2025
5/3/2025	345	No	SPPD25-3148	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2025
5/2/2025	1848	Yes	SPPD25-3137	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2025
4/24/2025	1230	Yes	SPPD25-2932	S ROCK BLVD		Along Segment	2025
4/18/2025	2155	No	SPPD25-2768	S ROCK BLVD	FREEPORT BLVD	FREEPORT BLVD & S ROCK BLVD	2025
4/17/2025	949	No	SPPD25-2720	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2025
4/17/2025	1708	No	SPPD25-2729	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2025
4/14/2025	342	Yes	SPPD25-2636	ROCK BLVD	CHESTER SQ	CHESTER SQ & ROCK BLVD	2025
4/11/2025	1812	No	SPPD25-2582	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2025
4/10/2025	2140	Yes	SPPD25-2558	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2025
4/5/2025	849	Yes	SPPD25-2416	GAULT WAY	ROCK BLVD	GAULT WAY & ROCK BLVD	2025
4/3/2025	934	No	SPPD25-2366	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2025
4/1/2025	1337	No	SPPD25-2328	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2025
3/24/2025	1708	No	SPPD25-2145	G ST	ROCK BLVD	G ST & ROCK BLVD	2025
3/22/2025	1329	No	SPPD25-2094	ROCK BLVD	GREG ST	GREG ST & ROCK BLVD	2025
3/21/2025	1532	No	SPPD25-2073	ROCK BLVD	IR80E TO ROCK BLVD INT17	IR80E TO ROCK BLVD INT17 & ROCK BLVD	2025
3/20/2025	1622	Yes	SPPD25-2051-P1	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2025
3/20/2025	1622	Yes	SPPD25-2051	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2025
3/18/2025	1510	No	SPPD25-1995	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2025
3/15/2025	935	No	SPPD25-1923	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2025
3/7/2025	1227	No	SPPD25-1760	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2025
2/20/2025	1012	No	SPPD25-1361	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2025
2/15/2025	338	No	SPPD25-1225	IR80W TO IR580S/US395N INT15	ROCK BLVD	IR80W TO IR580S/US395N INT15 & ROCK BLVD	2025
2/14/2025	545	No	SPPD25-1197	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2025
2/12/2025	1330	Yes	SPPD25-1169	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2025
2/7/2025	1619	No	SPPD25-1058	ROCK BLVD	I ST	I ST & ROCK BLVD	2025
2/4/2025	1215	Yes	SPPD25-1001	S ROCK BLVD		Along Segment	2025

City of Sparks Crash Data

Date	Time	H & R	Case #	Street 1	Street 2	PMX_Location	PMX_Year
1/29/2025	1715	Yes	SPPD25-841	15TH ST	ROCK BLVD	15TH ST & ROCK BLVD	2025
1/16/2025	708	No	SPPD25-440	ROCK BLVD	H ST	H ST & ROCK BLVD	2025
1/15/2025	1930	Yes	SPPD25-433	HYMER AVE	S ROCK BLVD	HYMER AVE & S ROCK BLVD	2025
1/10/2025	1927	Yes	SPPD25-289	S ROCK BLVD		Along Segment	2025
1/8/2025	1049	Yes	SPPD25-225	ROCK BLVD	H ST	H ST & ROCK BLVD	2025
1/5/2025	56	No	SPPD25-148	S ROCK BLVD		Along Segment	2025
1/1/2025	154	No	SPPD25-2	IR80W TO ROCK BLVD INT17		Along Segment	2025
12/31/2024	1347	Yes	SPPD24-10292	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2024
12/27/2024	820	No	SPPD24-10180	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2024
12/27/2024	1000	No	SPPD24-10182	S ROCK BLVD	SHABER AVE	S ROCK BLVD & SHABER AVE	2024
12/19/2024	1729	Yes	SPPD24-9998	FREEPORT BLVD	S ROCK BLVD	FREEPORT BLVD & S ROCK BLVD	2024
12/19/2024	1857	Yes	SPPD24-10004	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2024
12/18/2024	1430	No	SPPD24-9949	S ROCK BLVD		Along Segment	2024
12/17/2024	1427	No	SPPD24-9907	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2024
12/17/2024	700	Yes	SPPD24-9937	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2024
12/13/2024	2243	No	SPPD24-9822	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2024
12/13/2024	1415	No	SPPD24-9816	ROCK BLVD	VANCE WAY	ROCK BLVD & VANCE WAY	2024
12/12/2024	1654	Yes	SPPD24-10096	ROCK BLVD		Along Segment	2024
12/9/2024	2304	Yes	SPPD24-9703	ROCK BLVD	IR80E	IR80E & ROCK BLVD	2024
12/6/2024	1135	Yes	SPPD24-9611	S ROCK BLVD		Along Segment	2024
12/5/2024	1621	No	SPPD24-9589	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2024
12/2/2024	1636	No	SPPD24-9511	ROCK BLVD	IR80E	IR80E & ROCK BLVD	2024
12/2/2024	1855	No	SPPD24-9514	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2024
11/29/2024	435	No	SPPD24-9422-P1	GLENDALE AVE	S ROCK BLVD	GLENDALE AVE & S ROCK BLVD	2024
11/29/2024	435	No	SPPD24-9422	GLENDALE AVE	S ROCK BLVD	GLENDALE AVE & S ROCK BLVD	2024
11/27/2024	2102	Yes	SPPD24-9400	S ROCK BLVD	SOUTH ROCK BLVD	S ROCK BLVD & SOUTH ROCK BLVD	2024
11/24/2024	1136	No	SPPD24-9310	1726 1/2 C STREETSPARKSNV	ROCK BLVD	1726 1/2 C STREETSPARKSNV & ROCK BLVD	2024
11/24/2024	1427	No	SPPD24-9314	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2024
11/21/2024	735	No	SPPD24-9233	GLENDALE AVE	S ROCK BLVD	GLENDALE AVE & S ROCK BLVD	2024
11/18/2024	1614	No	SPPD24-9170	ROCK BLVD	15TH ST	15TH ST & ROCK BLVD	2024
11/17/2024	1730	Yes	SPPD24-9199	S ROCK BLVD		Along Segment	2024
11/16/2024	1237	No	SPPD24-9110	ROCK BLVD	YORK WAY	ROCK BLVD & YORK WAY	2024
11/11/2024	1745	Yes	SPPD24-9341	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2024
11/11/2024	1541	Yes	SPPD24-8983	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2024
11/9/2024	1806	No	SPPD24-8932	ROCK BLVD	G ST	G ST & ROCK BLVD	2024
11/4/2024	1430	Yes	SPPD24-8841	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2024
11/4/2024	429	No	SPPD24-8767	ROCK BLVD	IR80E	IR80E & ROCK BLVD	2024
10/31/2024	704	No	SPPD24-8672	ROCK BLVD	I ST	I ST & ROCK BLVD	2024
10/31/2024	1647	No	SPPD24-8694	ROCK BLVD	TYLER WAY	ROCK BLVD & TYLER WAY	2024
10/23/2024	820	No	SPPD24-8457	ROCK BLVD	I ST	I ST & ROCK BLVD	2024
10/22/2024	1930	No	SPPD24-8445	GLENDALE AVE	ROCK BLVD	GLENDALE AVE & ROCK BLVD	2024
10/22/2024	1726	Yes	SPPD24-8442-P2	ROCK BLVD	IR80E TO ROCK BLVD	IR80E TO ROCK BLVD & ROCK BLVD	2024
10/22/2024	1726	Yes	SPPD24-8442-P1	ROCK BLVD	IR80E TO ROCK BLVD	IR80E TO ROCK BLVD & ROCK BLVD	2024
10/22/2024	1726	Yes	SPPD24-8442	ROCK BLVD	IR80E TO ROCK BLVD	IR80E TO ROCK BLVD & ROCK BLVD	2024
10/18/2024	630	Yes	SPPD24-8308	YORK WAY	ROCK BLVD	ROCK BLVD & YORK WAY	2024
10/16/2024	1713	Yes	SPPD24-8272	S ROCK BLVD		Along Segment	2024
10/15/2024	1736	No	SPPD24-8239	S ROCK BLVD	SHABER AVE	S ROCK BLVD & SHABER AVE	2024
10/9/2024	1511	No	SPPD24-8067	S ROCK BLVD	SHABER AVE	S ROCK BLVD & SHABER AVE	2024
10/8/2024	1944	No	SPPD24-8037	ROCK BLVD	HYMER AVE	HYMER AVE & ROCK BLVD	2024
10/5/2024	951	Yes	SPPD24-7916	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2024
10/5/2024	1909	No	SPPD24-7926	ROCK BLVD	YORK WAY	ROCK BLVD & YORK WAY	2024
10/3/2024	2300	No	SPPD24-7889	ROCK BLVD	IR80E TO ROCK BLVD	IR80E TO ROCK BLVD & ROCK BLVD	2024
10/1/2024	1632	No	SPPD24-7822	ROCK BLVD	F ST	F ST & ROCK BLVD	2024
9/30/2024	1514	No	SPPD24-7784	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2024
9/30/2024	732	No	SPPD24-7766	ROCK BLVD	I ST	I ST & ROCK BLVD	2024
9/30/2024	1123	No	SPPD24-7771	ROCK BLVD	I80 WB ON RAMP	I80 WB ON RAMP & ROCK BLVD	2024
9/29/2024	1858	Yes	SPPD24-7759	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2024
9/29/2024	1227	No	SPPD24-7753	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2024
9/25/2024	826	Yes	SPPD24-7632	D ST	ROCK BLVD	D ST & ROCK BLVD	2024
9/25/2024	1504	No	SPPD24-7640	ROCK BLVD	ZEPHYR WAY	ROCK BLVD & ZEPHYR WAY	2024
9/22/2024	2118	Yes	SPPD24-7605	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2024
9/20/2024	1553	No	SPPD24-7494	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2024
9/19/2024	1702	No	SPPD24-7470	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2024
9/15/2024	1531	Yes	SPPD24-7334	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2024
9/13/2024	1951	Yes	SPPD24-7301-P1	OPPIO ST	ROCK BLVD	OPPIO ST & ROCK BLVD	2024
9/13/2024	1951	Yes	SPPD24-7301	OPPIO ST	ROCK BLVD	OPPIO ST & ROCK BLVD	2024
9/13/2024	2101	No	SPPD24-7303	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2024
8/31/2024	2009	No	SPPD24-6920	ROCK BLVD	F ST	F ST & ROCK BLVD	2024
8/31/2024	2009	No	SPPD24-6920-P1	ROCK BLVD	F ST	F ST & ROCK BLVD	2024
8/26/2024	1830	No	SPPD24-6754	C ST	ROCK BLVD	C ST & ROCK BLVD	2024
8/19/2024	1254	Yes	SPPD24-6532	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2024
8/19/2024	1254	Yes	SPPD24-6532-P1	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2024
8/17/2024	2258	No	SPPD24-6486	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2024
8/16/2024	1914	No	SPPD24-6464	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2024
8/14/2024	2131	No	SPPD24-6406	ROCK BLVD		Along Segment	2024
8/11/2024	1508	Yes	SPPD24-6292	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2024
8/8/2024	1349	No	SPPD24-6226	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2024
8/7/2024	1948	No	SPPD24-6201	ROCK BLVD	ROCK BLVD TO IR80W INT17	ROCK BLVD & ROCK BLVD TO IR80W INT17	2024
8/2/2024	2104	Yes	SPPD24-6065	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2024
7/21/2024	1300	Yes	SPPD24-5742-P1	S ROCK BLVD		Along Segment	2024
7/21/2024	1300	Yes	SPPD24-5742	S ROCK BLVD		Along Segment	2024
7/20/2024	1858	No	SPPD24-5708	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2024
7/13/2024	1615	No	SPPD24-5494	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2024
7/13/2024	1839	No	SPPD24-5495	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2024
7/10/2024	1125	No	SPPD24-5387	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2024
7/7/2024	1647	No	SPPD24-5322	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2024
7/6/2024	2000	Yes	SPPD24-5417	S ROCK BLVD		Along Segment	2024
7/6/2024	2000	Yes	SPPD24-5417-P1	S ROCK BLVD		Along Segment	2024

City of Sparks Crash Data

Date	Time	H & R	Case #	Street 1	Street 2	PMX_Location	PMX_Year
7/3/2024	2220	No	SPPD24-5212	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2024
7/3/2024	2220	No	SPPD5212-P1	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2024
7/2/2024	1	Yes	SPPD24-5154	TYLER WAY	ROCK BLVD	ROCK BLVD & TYLER WAY	2024
7/1/2024	1826	No	SPPD24-5147	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2024
6/28/2024	2200	Yes	SPPD24-5087	SHABER AVE	ROCK BLVD	ROCK BLVD & SHABER AVE	2024
6/27/2024	855	No	SPPD24-5031	ROCK BLVD	C ST	C ST & ROCK BLVD	2024
6/27/2024	1448	Yes	SPPD24-5050	GREG ST	ROCK BLVD	GREG ST & ROCK BLVD	2024
6/26/2024	1534	Yes	SPPD24-5013	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2024
6/17/2024	2148	No	SPPD24-4770	ROCK BLVD	CHANCIE WAY	CHANCIE WAY & ROCK BLVD	2024
6/17/2024	545	No	SPPD24-4745	ROCK BLVD	GREG ST	GREG ST & ROCK BLVD	2024
6/15/2024	55	No	SPPD24-4691	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2024
6/12/2024	1211	No	SPPD24-4611	ROCK BLVD	C ST	C ST & ROCK BLVD	2024
6/11/2024	1238	No	SPPD24-4585	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2024
6/11/2024	650	No	SPPD24-4576	S ROCK BLVD	PITTMAN AVE	PITTMAN AVE & S ROCK BLVD	2024
6/9/2024	1207	No	SPPD24-4531-P1	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2024
6/9/2024	1207	No	SPPD24-4531	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2024
6/8/2024	957	Yes	SPPD24-4512	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2024
6/7/2024	1409	No	SPPD24-4481	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2024
6/6/2024	640	No	SPPD24-4432	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2024
6/6/2024	848	No	SPPD24-4435	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2024
6/6/2024	1345	No	SPPD24-4447	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2024
6/3/2024	1524	No	SPPD24-4356	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2024
5/31/2024	1930	No	SPPD24-4291	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2024
5/31/2024	1615	No	SPPD24-4287	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2024
5/31/2024	1713	No	SPPD24-4288	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2024
5/29/2024	1634	No	SPPD24-4221	ROCK BLVD	H ST	H ST & ROCK BLVD	2024
5/28/2024	1643	No	SPPD24-4198	ROCK BLVD	GREG ST	GREG ST & ROCK BLVD	2024
5/22/2024	1618	No	SPPD24-4025	S ROCK BLVD	FREEPORT BLVD	FREEPORT BLVD & S ROCK BLVD	2024
5/16/2024	1530	Yes	SPPD24-3851	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2024
5/16/2024	820	Yes	SPPD24-3848	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2024
5/5/2024	612	No	SPPD24-3503	CRANE WAY	ROCK BLVD	CRANE WAY & ROCK BLVD	2024
5/2/2024	1646	Yes	SPPD24-3439	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2024
5/2/2024	2009	No	SPPD24-3444	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2024
4/27/2024	2304	No	SPPD24-3302	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2024
4/18/2024	1515	Yes	SPPD24-3098-P1	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2024
4/18/2024	1515	Yes	SPPD24-3098	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2024
4/15/2024	311	No	SPPD24-2969	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2024
4/13/2024	1521	Yes	SPPD24-50836	S ROCK BLVD		Along Segment	2024
4/7/2024	712	No	SPPD24-2767	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2024
4/7/2024	1045	Yes	SPPD24-2772	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2024
4/2/2024	1350	No	SPPD24-2626	ROCK BLVD	GAULT WAY	GAULT WAY & ROCK BLVD	2024
3/31/2024	355	No	SPPD24-2581	15TH ST	ROCK BLVD	15TH ST & ROCK BLVD	2024
3/30/2024	1622	No	SPPD24-2912	ROCK BLVD		Along Segment	2024
3/30/2024	1622	No	SPPD24-2912-P2	ROCK BLVD		Along Segment	2024
3/30/2024	1622	No	SPPD24-2912-P1	ROCK BLVD		Along Segment	2024
3/28/2024	710	No	SPPD24-2520	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2024
3/23/2024	1843	No	SPPD24-2392	ROCK BLVD	D ST	D ST & ROCK BLVD	2024
3/20/2024	1210	No	SPPD24-2285	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2024
3/18/2024	1500	Yes	SPPD24-2226	ROCK BLVD		Along Segment	2024
3/8/2024	1455	Yes	SPPD24-1963	ROCK BLVD	TYLER WAY	ROCK BLVD & TYLER WAY	2024
3/4/2024	1233	No	SPPD24-1832	ROCK BLVD	G ST	G ST & ROCK BLVD	2024
2/22/2024	1950	Yes	SPPD24-1546	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2024
2/21/2024	1400	Yes	SPPD24-1514	ROCK BLVD		Along Segment	2024
2/21/2024	1400	Yes	SPPD24-1514-P1	ROCK BLVD		Along Segment	2024
2/17/2024	431	No	SPPD24-1378	GAULT WAY	ROCK BLVD	GAULT WAY & ROCK BLVD	2024
2/7/2024	1626	No	SPPD24-1128	ROCK BLVD	C ST	C ST & ROCK BLVD	2024
2/5/2024	1920	Yes	SPPD24-1087	ROCK BLVD	MCCARRAN BLVD	MCCARRAN BLVD & ROCK BLVD	2024
2/2/2024	1230	Yes	SPPD24-984	15TH ST	ROCK BLVD	15TH ST & ROCK BLVD	2024
1/28/2024	1410	Yes	SPPD24-865	ROCK BLVD	TYLER WAY	ROCK BLVD & TYLER WAY	2024
1/27/2024	2201	No	SPPD24-824	ROCK BLVD	GLENDALE AVE	GLENDALE AVE & ROCK BLVD	2024
1/26/2024	1905	No	SPPD24-791	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2024
1/26/2024	1811	No	SPPD24-790	ROCK BLVD	TYLER WAY	ROCK BLVD & TYLER WAY	2024
1/26/2024	236	Yes	SPPD24-0771	ROCK BLVD	VANCE WAY	ROCK BLVD & VANCE WAY	2024
1/14/2024	1228	Yes	SPPD24-392	S ROCK BLVD		Along Segment	2024
1/6/2024	1649	No	SPPD24-175	ROCK BLVD	15TH ST	15TH ST & ROCK BLVD	2024
1/5/2024	1725	No	SPPD24-151	IR80W	ROCK BLVD	IR80W & ROCK BLVD	2024
1/4/2024	1420	No	SPPD24-119	FREEPORT BLVD	S ROCK BLVD	FREEPORT BLVD & S ROCK BLVD	2024
1/3/2024	1755	Yes	SPPD24-98	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2024
12/30/2023	1158	No	SPPD23-10198	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2023
12/24/2023	647	Yes	SPPD23-10021	ROCK BLVD	15TH ST	15TH ST & ROCK BLVD	2023
12/22/2023	1739	No	SPPD23-9976	ROCK BLVD	D ST	D ST & ROCK BLVD	2023
12/22/2023	641	No	SPPD23-9957	ROCK BLVD	UNDERNEATH I-80 OVERPASS	ROCK BLVD & UNDERNEATH I-80 OVERPASS	2023
12/18/2023	1214	No	SPPD23-9822	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2023
12/12/2023	1437	No	SPPD23-9643	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2023
12/9/2023	1534	No	SPPD23-9512	ROCK BLVD	C ST	C ST & ROCK BLVD	2023
12/7/2023	1725	Yes	SPPD23-9491	SR668	IR80E TO ROCK BLVD INT17	IR80E TO ROCK BLVD INT17 & SR668	2023
12/7/2023	1725	Yes	SPPD23-9491-P1	SR668	IR80E TO ROCK BLVD INT17	IR80E TO ROCK BLVD INT17 & SR668	2023
12/5/2023	813	No	SPPD23-9384	ROCK BLVD	C ST	C ST & ROCK BLVD	2023
12/3/2023	1815	No	SPPD23-9331	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2023
11/30/2023	1400	No	SPPD23-9228	SHABER AVE	S ROCK BLVD	S ROCK BLVD & SHABER AVE	2023
11/25/2023	1618	No	SPPD23-9088	ROCK BLVD	YORK WAY	ROCK BLVD & YORK WAY	2023
11/24/2023	1151	No	SPPD23-9053	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2023
11/23/2023	2300	Yes	SPPD23-9365	ROCK BLVD		Along Segment	2023
11/22/2023	1048	No	SPPD23-8996	S ROCK BLVD	PITTMAN AVE	PITTMAN AVE & S ROCK BLVD	2023
11/22/2023	655	Yes	SPPD23-8987	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2023
11/19/2023	1315	No	SPPD23-8917	GLENDALE AVE	ROCK BLVD	GLENDALE AVE & ROCK BLVD	2023
11/19/2023	2118	Yes	SPPD23-8927	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2023
11/18/2023	500	Yes	SPPD23-8879	ROCK BLVD		Along Segment	2023

City of Sparks Crash Data

Date	Time	H & R	Case #	Street 1	Street 2	PMX_Location	PMX_Year
11/11/2023	1915	No	SPPD23-8700	ROCK BLVD		Along Segment	2023
11/8/2023	1218	No	SPPD23-8600	ROCK BLVD	I80 EB OFF	I80 EB OFF & ROCK BLVD	2023
11/7/2023	1225	No	SPPD23-8567	HYMER AVE	S ROCK BLVD	HYMER AVE & S ROCK BLVD	2023
10/28/2023	105	Yes	SPPD23-8290	ROCK BLVD	I80	I80 & ROCK BLVD	2023
10/27/2023	1421	No	SPPD23-8278	ROCK BLVD	I ST	I ST & ROCK BLVD	2023
10/26/2023	1450	No	SPPD23-8248	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2023
10/26/2023	720	No	SPPD23-8236	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2023
10/26/2023	824	No	SPPD23-8238	S ROCK BLVD		Along Segment	2023
10/25/2023	1239	No	SPPD23-8219-P1	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2023
10/25/2023	1239	No	SPPD23-8219	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2023
10/20/2023	559	No	SPPD23-8024	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2023
10/12/2023	701	No	SPPD23-7800	S ROCK BLVD	SHABER AVE	S ROCK BLVD & SHABER AVE	2023
10/11/2023	737	No	SPPD23-7772	ROCK BLVD	I-80WB	I-80WB & ROCK BLVD	2023
10/10/2023	636	No	SPPD23-7743	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2023
10/9/2023	603	No	SPPD23-7715	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2023
10/8/2023	1716	No	SPPD23-7709	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2023
10/7/2023	2200	No	SPPD23-7693	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2023
10/7/2023	1446	No	SPPD23-7682	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2023
10/6/2023	957	Yes	SPPD23-7650	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2023
9/29/2023	1635	Yes	SPPD23-7485	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2023
9/23/2023	1740	No	SPPD23-7332	ROCK BLVD	MCCARRAN BLVD	MCCARRAN BLVD & ROCK BLVD	2023
9/22/2023	2027	No	SPPD23-7311	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2023
9/20/2023	1845	Yes	SPPD23-7270-P1	S ROCK BLVD	PITTMAN AVE	PITTMAN AVE & S ROCK BLVD	2023
9/20/2023	1845	Yes	SPPD23-7270	S ROCK BLVD	PITTMAN AVE	PITTMAN AVE & S ROCK BLVD	2023
9/19/2023	644	No	SPPD23-7210	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2023
9/14/2023	2219	No	SPPD23-7091	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2023
9/10/2023	1128	No	SPPD23-6958	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2023
9/9/2023	549	No	SPPD23-6937	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2023
9/7/2023	2357	No	SPPD23-6901	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2023
8/29/2023	1305	Yes	SPPD23-6602	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2023
8/28/2023	1119	No	SPPD23-6565	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2023
8/26/2023	2343	Yes	SPPD23-6534	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2023
8/22/2023	2300	No	SPPD23-6418	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2023
8/22/2023	806	No	SPPD23-6394	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2023
8/21/2023	1357	No	SPPD23-6364	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2023
8/19/2023	711	No	SPPD23-6306	S ROCK BLVD		Along Segment	2023
8/14/2023	1804	No	SPPD23-6163	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2023
8/10/2023	1752	No	SPPD23-6038	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2023
8/10/2023	1655	No	SPPD23-6035	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2023
8/8/2023	1541	No	SPPD23-5967	ROCK BLVD	EB I80 ON RAMP	EB I80 ON RAMP & ROCK BLVD	2023
8/5/2023	20	Yes	SPPD23-5876	ROCK BLVD	D STREET	D STREET & ROCK BLVD	2023
8/4/2023	1813	Yes	SPPD23-5867	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2023
8/4/2023	1813	Yes	SPPD23-5867-P1	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2023
8/4/2023	2250	Yes	SPPD23-5874	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2023
8/1/2023	2222	No	SPPD23-5766	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2023
7/31/2023	1326	Yes	SPPD23-5717	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2023
7/26/2023	730	Yes	SPPD23-5622	ROCK BLVD	ROCK BLVD	ROCK BLVD & ROCK BLVD	2023
7/24/2023	1746	No	SPPD23-5526	ROCK BLVD	G ST	G ST & ROCK BLVD	2023
7/24/2023	1115	Yes	SPPD23-5513	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2023
7/20/2023	1705	No	SPPD23-5424	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2023
7/12/2023	832	Yes	SPPD23-5181	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2023
7/8/2023	1023	No	SPPD23-5077	ROCK BLVD	I ST	I ST & ROCK BLVD	2023
7/4/2023	1822	No	SPPD23-4942	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2023
7/3/2023	2152	Yes	SPPD23-4912	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2023
7/1/2023	50	Yes	SPPD23-4892	ROCK BLVD		Along Segment	2023
6/29/2023	1402	No	SPPD23-4800	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2023
6/27/2023	1118	No	SPPD23-4729	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2023
6/24/2023	1946	No	SPPD23-4673	GLENDALE AVE	S ROCK BLVD	GLENDALE AVE & S ROCK BLVD	2023
6/23/2023	2107	No	SPPD23-4655	S ROCK BLVD	VICTORIAN AVE	S ROCK BLVD & VICTORIAN AVE	2023
6/21/2023	1705	No	SPPD23-4582	F ST	ROCK BLVD	F ST & ROCK BLVD	2023
6/21/2023	1719	No	SPPD23-4583	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2023
6/20/2023	1045	No	SPPD23-4545	GLENDALE AVE	S ROCK BLVD	GLENDALE AVE & S ROCK BLVD	2023
6/14/2023	1740	No	SPPD23-4404	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2023
6/9/2023	1122	No	SPPD23-4257	GLENDALE AVE	ROCK BLVD	GLENDALE AVE & ROCK BLVD	2023
6/7/2023	1554	Yes	SPPD23-4206-P1	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2023
6/7/2023	1554	Yes	SPPD23-4206	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2023
6/4/2023	855	No	SPPD23-4096	S ROCK BLVD	I-80 EAST OFF	I-80 EAST OFF & S ROCK BLVD	2023
6/4/2023	1524	No	SPPD23-4105	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2023
6/2/2023	1520	No	SPPD23-4051	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2023
6/2/2023	643	No	SPPD23-4040	ROCK BLVD	YORK WAY	ROCK BLVD & YORK WAY	2023
5/26/2023	2215	Yes	SPPD23-3888	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2023
5/26/2023	1831	No	SPPD23-3883	YORK WAY	ROCK BLVD	ROCK BLVD & YORK WAY	2023
5/20/2023	517	Yes	SPPD23-3709	ROCK BLVD	D ST	D ST & ROCK BLVD	2023
5/17/2023	800	Yes	SPPD23-3629	SBRAGIA WAY	ROCK BLVD	ROCK BLVD & SBRAGIA WAY	2023
5/16/2023	1006	Yes	SPPD23-3600	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2023
5/16/2023	1728	No	SPPD23-3618-P1	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2023
5/16/2023	1728	Yes	SPPD23-3618	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2023
5/15/2023	1744	No	SPPD23-3589	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2023
5/11/2023	1821	No	SPPD23-3491	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2023
5/10/2023	821	No	SPPD23-3453	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2023
5/8/2023	618	No	SPPD23-3398	ROCK BLVD	I ST	I ST & ROCK BLVD	2023
5/6/2023	1848	No	SPPD23-3357	IR80E	S ROCK BLVD	IR80E & S ROCK BLVD	2023
5/6/2023	1652	No	SPPD23-3356	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2023
4/23/2023	1545	No	SPPD23-3010	ROCK BLVD	I ST	I ST & ROCK BLVD	2023
4/17/2023	1645	No	SPPD23-2853	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2023
4/15/2023	1832	No	SPPD23-2805	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2023
4/12/2023	1612	No	SPPD23-2712	ROCK BLVD	C ST	C ST & ROCK BLVD	2023
4/12/2023	1543	No	SPPD23-2710	HYMER AVE	S ROCK BLVD	HYMER AVE & S ROCK BLVD	2023

City of Sparks Crash Data

Date	Time	H & R	Case #	Street 1	Street 2	PMX_Location	PMX_Year
3/23/2023	1546	Yes	SPPD23-2201	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2023
3/14/2023	925	No	SPPD23-1925	ROCK BLVD	I-80 OFFRAMP	I-80 OFFRAMP & ROCK BLVD	2023
3/12/2023	445	No	SPPD23-1877	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2023
3/2/2023	1843	No	SPPD23-1636	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2023
2/27/2023	1553	No	SPPD23-1553	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2023
2/17/2023	2054	No	SPPD23-1330	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2023
2/14/2023	2338	No	SPPD23-1241	SBRAGIA WAY	ROCK BLVD	ROCK BLVD & SBRAGIA WAY	2023
2/8/2023	1352	No	SPPD23-1060	ROCK BLVD	C ST	C ST & ROCK BLVD	2023
1/29/2023	1121	No	SPPD23-775	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2023
1/29/2023	1223	No	SPPD23-777	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2023
1/29/2023	2058	No	SPPD23-738	ROCK BLVD	PLYMOUTH WAY	PLYMOUTH WAY & ROCK BLVD	2023
1/28/2023	720	No	SPPD23-740	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2023
1/25/2023	1341	No	SPPD23-657	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2023
1/24/2023	953	No	SPPD23-617	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2023
1/22/2023	600	Yes	SPPD23-591	S ROCK BLVD		Along Segment	2023
1/22/2023	1617	No	SPPD23-580	S ROCK BLVD	MILL ST	MILL ST & S ROCK BLVD	2023
1/16/2023	559	No	SPPD23-426	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2023
1/12/2023	1815	No	SPPD23-313	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2023
1/6/2023	733	No	SPPD23-133	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2023
1/6/2023	1303	No	SPPD23-144	S ROCK BLVD	I-80 EB ON RP	I-80 EB ON RP & S ROCK BLVD	2023
11/1/2023	1756	No	SPPD23-19	ROCK BLVD	I ST	I ST & ROCK BLVD	2023
12/26/2022	1902	No	SPPD22-10104	GAULT WAY	ROCK BLVD	GAULT WAY & ROCK BLVD	2022
12/23/2022	2100	Yes	SPPD23-50218	S ROCK BLVD		Along Segment	2022
12/9/2022	1248	No	SPPD22-9696	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2022
12/8/2022	1551	Yes	SPPD22-9667	GLENDALE AVE	S ROCK BLVD	GLENDALE AVE & S ROCK BLVD	2022
12/6/2022	1455	No	SPPD22-9603	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2022
12/4/2022	1300	No	SPPD22-9552	ROCK BLVD	C ST	C ST & ROCK BLVD	2022
12/3/2022	958	Yes	SPPD22-9524	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
11/26/2022	2330	Yes	SPPD22-9344	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2022
11/24/2022	1307	Yes	SPPD22-9284	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
11/18/2022	1626	No	SPPD22-9130	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2022
11/14/2022	1832	No	SPPD22-9020	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
11/11/2022	2330	No	SPPD22-8945	ROCK BLVD	TYLER WAY	ROCK BLVD & TYLER WAY	2022
11/7/2022	1813	No	SPPD22-8804	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2022
11/7/2022	938	No	SPPD22-8789	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2022
11/1/2022	1422	No	SPPD22-8654	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2022
10/29/2022	2146	No	SPPD22-8591	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2022
10/17/2022	1853	No	SPPD22-8289	ROCK BLVD	PLYMOUTH WAY	PLYMOUTH WAY & ROCK BLVD	2022
10/12/2022	1745	No	SPPD22-8152	ROCK BLVD	I ST	I ST & ROCK BLVD	2022
10/10/2022	913	No	SPPD22-8078	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2022
10/8/2022	1259	No	SPPD22-8027	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2022
10/8/2022	1750	No	SPPD22-8038	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2022
10/6/2022	1253	No	SPPD22-7961	S ROCK BLVD	FREEPORT BLVD	FREEPORT BLVD & S ROCK BLVD	2022
10/5/2022	1723	No	SPPD22-7935	S ROCK BLVD	FREEPORT BLVD	FREEPORT BLVD & S ROCK BLVD	2022
9/27/2022	1723	Yes	SPPD22-7709	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2022
9/24/2022	1503	No	SPPD22-7618	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2022
9/23/2022	725	Yes	SPPD22-7582	HYMER AVE	S ROCK BLVD	HYMER AVE & S ROCK BLVD	2022
9/22/2022	658	Yes	SPPD22-7548	15TH ST	ROCK BLVD	15TH ST & ROCK BLVD	2022
9/21/2022	1424	No	SPPD22-7535	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2022
9/21/2022	1200	No	SPPD22-7532	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2022
9/21/2022	640	No	SPPD22-7526	S ROCK BLVD	INTERSTATE 80 E/B ON RAMP	INTERSTATE 80 E/B ON RAMP & S ROCK BLVD	2022
9/18/2022	153	No	SPPD22-7445	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2022
9/17/2022	12	No	SPPD22-7416	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2022
9/17/2022	1108	No	SPPD22-7428	ROCK BLVD	I80	I80 & ROCK BLVD	2022
9/15/2022	1309	Yes	SPPD22-7373	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
9/13/2022	1745	No	SPPD22-7345	GLENDALE AVE	ROCK BLVD	GLENDALE AVE & ROCK BLVD	2022
9/4/2022	1229	No	SPPD22-7052	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2022
9/3/2022	1622	No	SPPD22-7035	ROCK BLVD	GLENDALE AVE	GLENDALE AVE & ROCK BLVD	2022
8/27/2022	16	Yes	SPPD22-6807	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2022
8/26/2022	1810	No	SPPD22-6799	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2022
8/17/2022	1209	No	SPPD22-6514	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2022
8/16/2022	1300	Yes	SPPD22-6500	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2022
8/16/2022	1250	No	SPPD22-6494	S ROCK BLVD	SHABER AVE	S ROCK BLVD & SHABER AVE	2022
8/13/2022	1634	No	SPPD22-6430	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
8/9/2022	808	No	SPPD22-6273	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2022
8/6/2022	2230	No	SPPD22-6205	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2022
8/3/2022	1844	No	SPPD22-6121	ROCK BLVD	F ST	F ST & ROCK BLVD	2022
8/3/2022	2328	No	SPPD22-6126	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
8/2/2022	1436	Yes	SPPD22-6077	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2022
8/2/2022	2036	No	SPPD22-6091	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2022
7/28/2022	1503	No	SPPD22-5939	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2022
7/19/2022	1632	No	SPPD22-5666	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2022
7/19/2022	1635	No	SPPD22-5667	YORK WAY	ROCK BLVD	ROCK BLVD & YORK WAY	2022
7/13/2022	1548	No	SPPD22-5501	ROCK BLVD	I80 WB ON RAMP	I80 WB ON RAMP & ROCK BLVD	2022
7/10/2022	946	No	SPPD22-5386	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
7/8/2022	959	No	SPPD22-5333	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2022
7/3/2022	1213	No	SPPD22-5179	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
7/2/2022	418	No	SPPD22-5158	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2022
7/1/2022	752	Yes	SPPD22-5139	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2022
6/26/2022	1502	No	SPPD22-4993	GAULT WAY	ROCK BLVD	GAULT WAY & ROCK BLVD	2022
6/24/2022	1535	No	SPPD22-4947	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2022
6/21/2022	1453	No	SPPD22-4870	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2022
6/21/2022	257	No	SPPD22-4857	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
6/20/2022	1623	No	SPPD22-4844	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2022
6/18/2022	1826	No	SPPD22-4809	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2022
6/16/2022	1227	No	SPPD22-4763-P1	GLENDALE AVE	ROCK BLVD	GLENDALE AVE & ROCK BLVD	2022
6/16/2022	1227	No	SPPD22-4763	GLENDALE AVE	ROCK BLVD	GLENDALE AVE & ROCK BLVD	2022
6/16/2022	2111	No	SPPD22-4774	GREG ST	ROCK BLVD	GREG ST & ROCK BLVD	2022

City of Sparks Crash Data

Date	Time	H & R	Case #	Street 1	Street 2	PMX_Location	PMX_Year
6/13/2022	1601	No	SPPD22-4694	PROSPECT AVE	ROCK BLVD	PROSPECT AVE & ROCK BLVD	2022
6/10/2022	1616	No	SPPD22-4600	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2022
6/10/2022	334	No	SPPD22-4578	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2022
6/3/2022	1110	Yes	SPPD22-4350	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2022
6/3/2022	1455	No	SPPD22-4356	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2022
5/31/2022	800	Yes	SPPD22-4252	HYMER AVE	S ROCK BLVD	HYMER AVE & S ROCK BLVD	2022
5/28/2022	210	Yes	SPPD22-4182	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2022
5/27/2022	1520	Yes	SPPD22-4167	ROCK BLVD	HYMER AVE	HYMER AVE & ROCK BLVD	2022
5/27/2022	2146	Yes	SPPD22-4174	ROCK BLVD	VANCE WAY	ROCK BLVD & VANCE WAY	2022
5/26/2022	1530	No	SPPD22-51006	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2022
5/26/2022	1530	No	SPPD22-51006-P1	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2022
5/24/2022	1442	No	SPPD22-4062	S ROCK BLVD	SHABER AVE	S ROCK BLVD & SHABER AVE	2022
5/22/2022	1709	No	SPPD22-4009	ROCK BLVD	VANCE WAY	ROCK BLVD & VANCE WAY	2022
5/21/2022	1327	No	SPPD22-3988	ROCK BLVD	H ST	H ST & ROCK BLVD	2022
5/21/2022	1004	No	SPPD22-3987	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2022
5/20/2022	855	No	SPPD22-3955	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2022
5/18/2022	2226	No	SPPD22-3911	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2022
5/17/2022	1543	Yes	SPPD22-3873-P1	ROCK BLVD	F ST	F ST & ROCK BLVD	2022
5/17/2022	1543	Yes	SPPD22-3873	ROCK BLVD	F ST	F ST & ROCK BLVD	2022
5/14/2022	930	Yes	SPPD22-50939	ROCK BLVD	15TH ST	15TH ST & ROCK BLVD	2022
5/11/2022	844	No	SPPD22-3681	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2022
5/5/2022	1654	No	SPPD22-3532	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2022
4/30/2022	2141	Yes	SPPD22-3398-P1	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2022
4/30/2022	2141	Yes	SPPD22-3398	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2022
4/27/2022	717	No	SPPD22-3291	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
4/26/2022	800	No	SPPDTEST	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2022
4/26/2022	1345	Yes	SPPD22-3276-P1	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2022
4/26/2022	1345	Yes	SPPD22-3276	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2022
4/26/2022	800	No	SPPDTEST	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2022
4/25/2022	1804	Yes	SPPD22-3256-P1	ROCK BLVD	IR80 W	IR80 W & ROCK BLVD	2022
4/25/2022	1804	Yes	SPPD22-3256	ROCK BLVD	IR80 W	IR80 W & ROCK BLVD	2022
4/19/2022	1730	Yes	SPPD22-3090	ROCK BLVD	H ST	H ST & ROCK BLVD	2022
4/14/2022	947	No	SPPD22-2923	ROCK BLVD	GAULT WAY	GAULT WAY & ROCK BLVD	2022
4/3/2022	1624	Yes	SPPD22-2614	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2022
4/1/2022	1038	No	SPPD22-2548	ROCK BLVD	I ST	I ST & ROCK BLVD	2022
3/28/2022	945	No	SPPD22-2430	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2022
3/28/2022	711	No	SPPD22-2428	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2022
3/25/2022	1529	No	SPPD22-2355	ROCK BLVD	IR80 W	IR80 W & ROCK BLVD	2022
3/22/2022	1412	No	SPPD22-2255	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2022
3/22/2022	1412	No	SPPD22-2055-P1	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2022
3/21/2022	837	Yes	SPPD22-2208	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2022
3/15/2022	953	No	SPPD22-2043	ROCK BLVD	OTHER	OTHER & ROCK BLVD	2022
3/14/2022	1648	No	SPPD22-2034	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2022
3/10/2022	1222	No	SPPD22-1893	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2022
3/10/2022	1650	No	SPPD22-1902	ROCK BLVD	IR80 E	IR80 E & ROCK BLVD	2022
3/4/2022	854	No	SPPD22-1717	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2022
3/3/2022	1606	No	SPPD22-1701	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2022
2/23/2022	813	Yes	SPPD22-1472	ROCK BLVD	RUSSELL WAY	ROCK BLVD & RUSSELL WAY	2022
2/14/2022	1928	Yes	SPPD22-1237	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2022
2/14/2022	1928	Yes	SPPD22-1237-P1	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2022
2/14/2022	1622	No	SPPD22-1228	ROCK BLVD	UPTON WAY	ROCK BLVD & UPTON WAY	2022
2/10/2022	1100	Yes	SPPD22-1177	S ROCK BLVD		Along Segment	2022
1/26/2022	759	No	SPPD22-665	ROCK BLVD	YORK WAY	ROCK BLVD & YORK WAY	2022
1/25/2022	1235	No	SPPD22-648	FREEMONT BLVD	S ROCK BLVD	FREEMONT BLVD & S ROCK BLVD	2022
1/24/2022	825	No	SPPD22-605	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2022
1/19/2022	649	Yes	SPPD22-455	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
1/15/2022	1724	No	SPPD22-363	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
1/6/2022	655	No	SPPD22-139	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
1/6/2022	655	No	SPPD22-139-P1	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2022
1/4/2022	726	Yes	SPPD21-50022-P1	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2022
1/4/2022	726	Yes	SPPD22-50022	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2022
1/2/2022	1932	No	SPPD22-44	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2022
12/25/2021	1712	No	SPPD21-10912-P1	GLENDALE AVE	S ROCK BLVD	GLENDALE AVE & S ROCK BLVD	2021
12/25/2021	1712	No	SPPD21-10912	GLENDALE AVE	S ROCK BLVD	GLENDALE AVE & S ROCK BLVD	2021
12/18/2021	2255	No	SPPD21-10700	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2021
12/13/2021	906	No	SPPD21-10564	ROCK BLVD	ZEPHYR WAY	ROCK BLVD & ZEPHYR WAY	2021
12/12/2021	2245	Yes	SPPD21-10558	15TH ST	ROCK BLVD	15TH ST & ROCK BLVD	2021
12/10/2021	1457	No	SPPD21-10496	ROCK BLVD	TYLER WAY	ROCK BLVD & TYLER WAY	2021
12/9/2021	1136	No	SPPD21-10460	C ST	ROCK BLVD	C ST & ROCK BLVD	2021
12/9/2021	1547	No	SPPD21-10468	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2021
12/5/2021	945	No	SPPD21-10345	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2021
12/3/2021	2339	Yes	SPPD21-10294	S ROCK BLVD		Along Segment	2021
12/1/2021	345	No	SPPD21-10208	ROCK BLVD	RUSSELL WAY	ROCK BLVD & RUSSELL WAY	2021
11/27/2021	804	No	SPPD21-10093	ROCK BLVD	OXFORD AVE	OXFORD AVE & ROCK BLVD	2021
11/26/2021	231	Yes	SPPD21-10055	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2021
11/23/2021	1703	No	SPPD21-10001	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2021
11/22/2021	506	Yes	SPPD21-9955	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2021
11/20/2021	1134	No	SPPD21-9910	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2021
11/20/2021	1900	Yes	SPPD21-52974	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2021
11/19/2021	808	No	SPPD21-9872	ROCK BLVD	IR80 E	IR80 E & ROCK BLVD	2021
11/15/2021	1000	Yes	SPPD21-9881	S ROCK BLVD		Along Segment	2021
10/31/2021	1857	Yes	SPPD21-9299	OXFORD AVE	ROCK BLVD	OXFORD AVE & ROCK BLVD	2021
10/30/2021	644	No	SPPD21-9248	ROCK BLVD	C ST	C ST & ROCK BLVD	2021
10/30/2021	2316	No	SPPD21-9269	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2021
10/28/2021	1823	No	SPPD21-9202	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2021
10/26/2021	641	No	SPPD21-9097	ROCK BLVD	C ST	C ST & ROCK BLVD	2021
10/25/2021	802	Yes	SPPD21-9066	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2021
10/22/2021	1444	No	SPPD21-8993	ROCK BLVD	IR80 E	IR80 E & ROCK BLVD	2021

City of Sparks Crash Data

Date	Time	H & R	Case #	Street 1	Street 2	PMX_Location	PMX_Year
10/21/2021	1505	No	SPPD21-8969	ROCK BLVD	I ST	I ST & ROCK BLVD	2021
10/20/2021	1238	No	SPPD21-8921	ROCK BLVD	HYMER AV	HYMER AV & ROCK BLVD	2021
10/20/2021	902	No	SPPD21-8913	IR80 E TO S ROCK BLVD	ROCK BLVD	IR80 E TO S ROCK BLVD & ROCK BLVD	2021
10/19/2021	819	No	SPPD21-8873	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2021
10/16/2021	1345	Yes	SPPD21-8806	S ROCK BLVD		Along Segment	2021
10/14/2021	319	No	SPPD21-8736	ROCK BLVD	IR80 E	IR80 E & ROCK BLVD	2021
10/11/2021	1945	No	SPPD21-8673	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2021
10/1/2021	827	No	SPPD21-8324	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2021
9/29/2021	1528	No	SPPD21-8278	ROCK BLVD	GLENDALE AVE	GLENDALE AVE & ROCK BLVD	2021
9/24/2021	623	No	SPPD21-8132	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2021
9/23/2021	1854	No	SPPD21-8122-P1	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2021
9/23/2021	1854	No	SPPD21-8122	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2021
9/21/2021	1616	No	SPPD21-8060	S ROCK BLVD	SR659 TO S ROCK BLVD	S ROCK BLVD & SR659 TO S ROCK BLVD	2021
9/20/2021	1801	No	SPPD21-8033	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2021
9/16/2021	1620	No	SPPD21-7900	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2021
9/14/2021	1317	No	SPPD21-7835	ROCK BLVD	E PRATER WAY	E PRATER WAY & ROCK BLVD	2021
9/14/2021	704	No	SPPD21-7829	S ROCK BLVD	SHABER AVE	S ROCK BLVD & SHABER AVE	2021
9/11/2021	1656	No	SPPD21-7763	IR80 W TO ROCK BLVD	ROCK BLVD	IR80 W TO ROCK BLVD & ROCK BLVD	2021
9/7/2021	1809	No	SPPD21-7644	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2021
9/3/2021	1550	No	SPPD21-7486	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2021
8/28/2021	2308	No	SPPD21-7317	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2021
8/28/2021	2216	No	SPPD21-7316	ROCK BLVD	I ST	I ST & ROCK BLVD	2021
8/23/2021	1538	No	SPPD21-7167	ROCK BLVD	GAULT WAY	GAULT WAY & ROCK BLVD	2021
8/21/2021	7	No	SPPD21-7105	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2021
8/20/2021	737	No	SPPD21-7083	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2021
8/16/2021	38	Yes	SPPD21-6946	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2021
8/6/2021	2253	No	SPPD21-6653	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2021
8/3/2021	1250	No	SPPD21-6529	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2021
7/27/2021	1743	No	SPPD21-6318	ROCK BLVD	VICTORIAN AV	ROCK BLVD & VICTORIAN AV	2021
7/22/2021	1715	Yes	SPPD21-6287-P1	ROCK BLVD	N MCCARRAN BLVD	N MCCARRAN BLVD & ROCK BLVD	2021
7/22/2021	1715	Yes	SPPD21-6287	ROCK BLVD	N MCCARRAN BLVD	N MCCARRAN BLVD & ROCK BLVD	2021
7/21/2021	1500	No	SPPD21-6118	ROCK BLVD	YORK WAY	ROCK BLVD & YORK WAY	2021
7/19/2021	748	No	SPPD21-6047	ROCK BLVD	SHABER AV	ROCK BLVD & SHABER AV	2021
7/14/2021	421	No	SPPD21-5895	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2021
7/7/2021	1624	No	SPPD21-5690	GREG ST	S ROCK BLVD	GREG ST & S ROCK BLVD	2021
7/4/2021	711	Yes	SPPD21-5580	IR80 E TO S ROCK BLVD	S ROCK BL	IR80 E TO S ROCK BLVD & S ROCK BL	2021
7/3/2021	2232	Yes	SPPD21-5569	ROCK BLVD	IR80 E TO S ROCK BLVD	IR80 E TO S ROCK BLVD & ROCK BLVD	2021
7/2/2021	926	No	SPPD21-5510	GREENBRAE DR	ROCK BLVD	GREENBRAE DR & ROCK BLVD	2021
6/30/2021	1151	No	SPPD21-5423	ROCK BLVD	HYMER AV	HYMER AV & ROCK BLVD	2021
6/30/2021	846	No	SPPD21-5415	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2021
6/30/2021	1540	No	SPPD21-5435	S ROCK BLVD	PITTMAN AVE	PITTMAN AVE & S ROCK BLVD	2021
6/20/2021	2152	No	SPPD21-5126	RUSSELL WAY	ROCK BLVD	ROCK BLVD & RUSSELL WAY	2021
6/19/2021	2025	Yes	SPPD21-5090	S ROCK BLVD	UNSPECIFIED	S ROCK BLVD & UNSPECIFIED	2021
6/18/2021	1700	No	SPPD21-5059	ROCK BLVD	HYMER AV	HYMER AV & ROCK BLVD	2021
6/16/2021	1822	No	SPPD21-4993	RUSSELL WAY	ROCK BLVD	ROCK BLVD & RUSSELL WAY	2021
6/15/2021	1245	Yes	SPPD21-5049	S ROCK BLVD		Along Segment	2021
6/10/2021	1309	No	SPPD21-4802	ROCK BLVD	IR80 E	IR80 E & ROCK BLVD	2021
6/9/2021	1201	Yes	SPPD21-4773	ROCK BLVD	GLENDALE AVE	GLENDALE AVE & ROCK BLVD	2021
6/8/2021	1742	Yes	SPPD21-4753	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2021
6/7/2021	1322	No	SPPD21-4719	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2021
6/3/2021	1730	No	SPPD21-4597	IR80 E	ROCK BLVD	IR80 E & ROCK BLVD	2021
5/29/2021	458	Yes	SPPD21-4413	D STREET	ROCK BLVD	D STREET & ROCK BLVD	2021
5/28/2021	1120	No	SPPD21-4384	ROCK BLVD	F ST	F ST & ROCK BLVD	2021
5/27/2021	1334	Yes	SPPD21-4354	ROCK BLVD		Along Segment	2021
5/27/2021	1334	Yes	SPPD21-4354-P1	ROCK BLVD		Along Segment	2021
5/27/2021	2048	Yes	SPPD21-4368-P1	S ROCK BLVD	ROCK BLVD	ROCK BLVD & S ROCK BLVD	2021
5/27/2021	2048	Yes	SPPD21-4368	S ROCK BLVD	ROCK BLVD	ROCK BLVD & S ROCK BLVD	2021
5/22/2021	2219	Yes	SPPD21-4209	ROCK BLVD	I ST	I ST & ROCK BLVD	2021
5/19/2021	1857	No	SPPD21-4121	ROCK BLVD	GAULT WY	GAULT WY & ROCK BLVD	2021
5/18/2021	1625	Yes	SPPD21-4076	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2021
5/18/2021	1625	Yes	SPPD21-4076-P1	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2021
5/17/2021	1717	No	SPPD21-4039	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2021
5/11/2021	653	No	SPPD21-3824	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2021
5/10/2021	2101	No	SPPD21-3818	ROCK BLVD	ROCK BL TO IR80 W	ROCK BL TO IR80 W & ROCK BLVD	2021
5/5/2021	1735	Yes	SPPD21-3810-P1	S ROCK BLVD		Along Segment	2021
5/5/2021	1735	Yes	SPPD21-3810	S ROCK BLVD		Along Segment	2021
5/4/2021	1524	No	SPPD21-3617	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2021
5/1/2021	328	No	SPPD21-3504	ROCK BLVD	ROCK BL TO IR80 W	ROCK BL TO IR80 W & ROCK BLVD	2021
4/23/2021	2043	Yes	SPPD21-3282	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2021
4/20/2021	655	No	SPPD21-3145	ROCK BLVD	SHABER AVE	ROCK BLVD & SHABER AVE	2021
4/16/2021	2015	Yes	SPPD21-3353	S ROCK BLVD		Along Segment	2021
4/11/2021	1039	No	SPPD21-2894	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2021
4/10/2021	1521	No	SPPD21-2875	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2021
4/9/2021	1211	No	SPPD21-2838	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2021
4/6/2021	1724	No	SPPD21-2753	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2021
4/1/2021	1752	No	SPPD21-2614-P1	ROCK BLVD	IR80 E TO S ROCK BLVD	IR80 E TO S ROCK BLVD & ROCK BLVD	2021
4/1/2021	1752	No	SPPD21-2614	ROCK BLVD	IR80 E TO S ROCK BLVD	IR80 E TO S ROCK BLVD & ROCK BLVD	2021
3/29/2021	745	Yes	SPPD21-50826	ROCK BLVD	HYMER AVE	HYMER AVE & ROCK BLVD	2021
3/20/2021	1311	Yes	SPPD21-2243	S ROCK BLVD		Along Segment	2021
3/17/2021	2217	Yes	SPPD21-2157	ROCK BLVD		Along Segment	2021
3/16/2021	2203	No	SPPD21-2126	ROCK BLVD	G	G & ROCK BLVD	2021
3/11/2021	1632	No	SPPD21-1942	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2021
3/7/2021	1853	No	SPPD21-1830-P1	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2021
3/7/2021	1853	No	SPPD21-1830	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2021
3/3/2021	1826	Yes	SPPD21-1715	ROCK BLVD	VANCE WAY	ROCK BLVD & VANCE WAY	2021
3/2/2021	1306	No	SPPD21-1673	ROCK BLVD	GREG ST	GREG ST & ROCK BLVD	2021
2/28/2021	1905	Yes	SPPD21-1632	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2021
2/20/2021	801	No	SPPD21-1378	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2021

City of Sparks Crash Data

Date	Time	H & R	Case #	Street 1	Street 2	PMX_Location	PMX_Year
2/19/2021	1015	Yes	SPPD21-1356-P1	GLENDALE AVE	S ROCK BLVD	GLENDALE AVE & S ROCK BLVD	2021
2/19/2021	1015	Yes	SPPD21-1356	GLENDALE AVE	S ROCK BLVD	GLENDALE AVE & S ROCK BLVD	2021
2/15/2021	1307	No	SPPD21-1231	ROCK BLVD	F ST	F ST & ROCK BLVD	2021
2/10/2021	1029	No	SPPD21-1072	VICTORIAN AVE	ROCK BLVD	ROCK BLVD & VICTORIAN AVE	2021
2/2/2021	1630	Yes	SPPD21-852	ROCK BLVD	AVENUE OF THE OAKS	AVENUE OF THE OAKS & ROCK BLVD	2021
1/19/2021	650	No	SPPD21-458	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2021
1/16/2021	1038	No	SPPD21-388	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2021
1/15/2021	1304	No	SPPD21-359	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2021
1/10/2021	2307	No	SPPD21-255	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2021
1/5/2021	1541	Yes	SPPD21-113	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2021
12/27/2020	1833	Yes	SPPD20-9635	S ROCK BLVD	S ROCK BLVD	S ROCK BLVD & S ROCK BLVD	2020
12/16/2020	1229	No	SPPD209376	ROCK BLVD	PLYMOUTH WAY	PLYMOUTH WAY & ROCK BLVD	2020
12/10/2020	2038	No	SPPD20-9226	ROCK BLVD	GREENBRAE DR	GREENBRAE DR & ROCK BLVD	2020
12/4/2020	405	No	SPPD20-9070	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2020
12/1/2020	1733	No	SPPD20-9027	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2020
11/23/2020	246	No	SPPD20-8821	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2020
11/20/2020	1030	Yes	SPPD20-8732	ROCK BLVD		Along Segment	2020
11/20/2020	1215	Yes	SPPD20-8735	ROCK BLVD	GREG ST	GREG ST & ROCK BLVD	2020
11/19/2020	1444	No	SPPD20-8711	S ROCK BLVD	PITTMAN AVE	PITTMAN AVE & S ROCK BLVD	2020
11/5/2020	1231	No	SPPD20-8343	RUSSELL WAY	ROCK BLVD	ROCK BLVD & RUSSELL WAY	2020
11/3/2020	1718	Yes	SPPD20-8290	ROCK BLVD	ODDIE BL	ODDIE BL & ROCK BLVD	2020
10/31/2020	746	No	SPPD20-8194	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2020
10/18/2020	1943	Yes	SPPD20-7837	ROCK BLVD	ODDIE BLVD	ODDIE BLVD & ROCK BLVD	2020
10/16/2020	1645	No	SPPD20-7968	S ROCK BLVD		Along Segment	2020
10/16/2020	640	Yes	SPPD20-7757	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2020
10/9/2020	1353	No	SPPD20-7564	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2020
9/30/2020	1906	No	SPPD20-7329	ROCK BLVD	COMMERCE ST	COMMERCE ST & ROCK BLVD	2020
9/26/2020	2205	No	SPPD20-7220	ROCK BLVD	PITTMAN AVE	PITTMAN AVE & ROCK BLVD	2020
9/25/2020	2305	Yes	SPPD20-7192	ROCK BLVD	IR80 E TO S ROCK BLVD	IR80 E TO S ROCK BLVD & ROCK BLVD	2020
9/25/2020	1811	Yes	SPPD20-7181	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2020
9/19/2020	1337	No	SPPD20-7012	ROCK BLVD	SBRAGIA WAY	ROCK BLVD & SBRAGIA WAY	2020
9/5/2020	1	No	SPPD20-6569	ROCK BLVD	IR80 W	IR80 W & ROCK BLVD	2020
9/2/2020	1039	Yes	SPPD20-6470-P1	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2020
9/2/2020	1039	Yes	SPPD20-6470	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2020
8/22/2020	1942	Yes	SPPD20-6128	S ROCK BLVD	HYMER AVE	HYMER AVE & S ROCK BLVD	2020
8/21/2020	2155	Yes	SPPD20-6101	SBRAGIA WAY	ROCK BLVD	ROCK BLVD & SBRAGIA WAY	2020
8/19/2020	1600	Yes	SPPD20-6034	GLENDALE AVE	S ROCK BLVD	GLENDALE AVE & S ROCK BLVD	2020
8/1/2020	807	No	SPPD20-5473	ROCK BLVD	I ST	I ST & ROCK BLVD	2020
7/28/2020	830	No	SPPD20-5365	S ROCK BLVD	GREG ST	GREG ST & S ROCK BLVD	2020
7/17/2020	1924	No	SPPD20-5079	ROCK BLVD	I ST	I ST & ROCK BLVD	2020
7/12/2020	1537	No	SPPD20-4918	ROCK BLVD	GREG ST	GREG ST & ROCK BLVD	2020
7/9/2020	1532	No	SPPD20-4824	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2020
7/2/2020	1645	No	SPPD20-4643	ROCK BLVD	FREEPORT BLVD	FREEPORT BLVD & ROCK BLVD	2020
6/28/2020	1040	No	SPPD20-4533	ODDIE BLVD	ROCK BLVD	ODDIE BLVD & ROCK BLVD	2020
6/28/2020	32	Yes	SPPD20-4522	ROCK BLVD	OXFORD AVE	OXFORD AVE & ROCK BLVD	2020
6/25/2020	1528	No	SPPD20-4455	S ROCK BLVD	SHABER AVE	S ROCK BLVD & SHABER AVE	2020
6/19/2020	1704	No	SPPD20-4288	ROCK BLVD	HYMER AV	HYMER AV & ROCK BLVD	2020
6/18/2020	1930	Yes	SPPD20-4364	PRATER WAY	ROCK BLVD	PRATER WAY & ROCK BLVD	2020
6/13/2020	1700	Yes	SPPD20-4120	ROCK BLVD	IR80 E TO S ROCK BLVD	IR80 E TO S ROCK BLVD & ROCK BLVD	2020
5/29/2020	1725	No	SPPD20-3763	S ROCK BLVD	GLENDALE AVE	GLENDALE AVE & S ROCK BLVD	2020
5/14/2020	1128	No	SPPD20-3387	ROCK BLVD	PRATER WAY	PRATER WAY & ROCK BLVD	2020
4/23/2020	1114	No	SPPD20-2980	ROCK BLVD	VICTORIAN AVE	ROCK BLVD & VICTORIAN AVE	2020

APPENDIX F DATA

Traffic Operations Analysis

Alternatives Attachment F-A - Count Data
Attachment F-B - Existing LOS Calculations
Attachment F-C - Future Forecast Projections
Attachment F-D - Future LOS Calculations



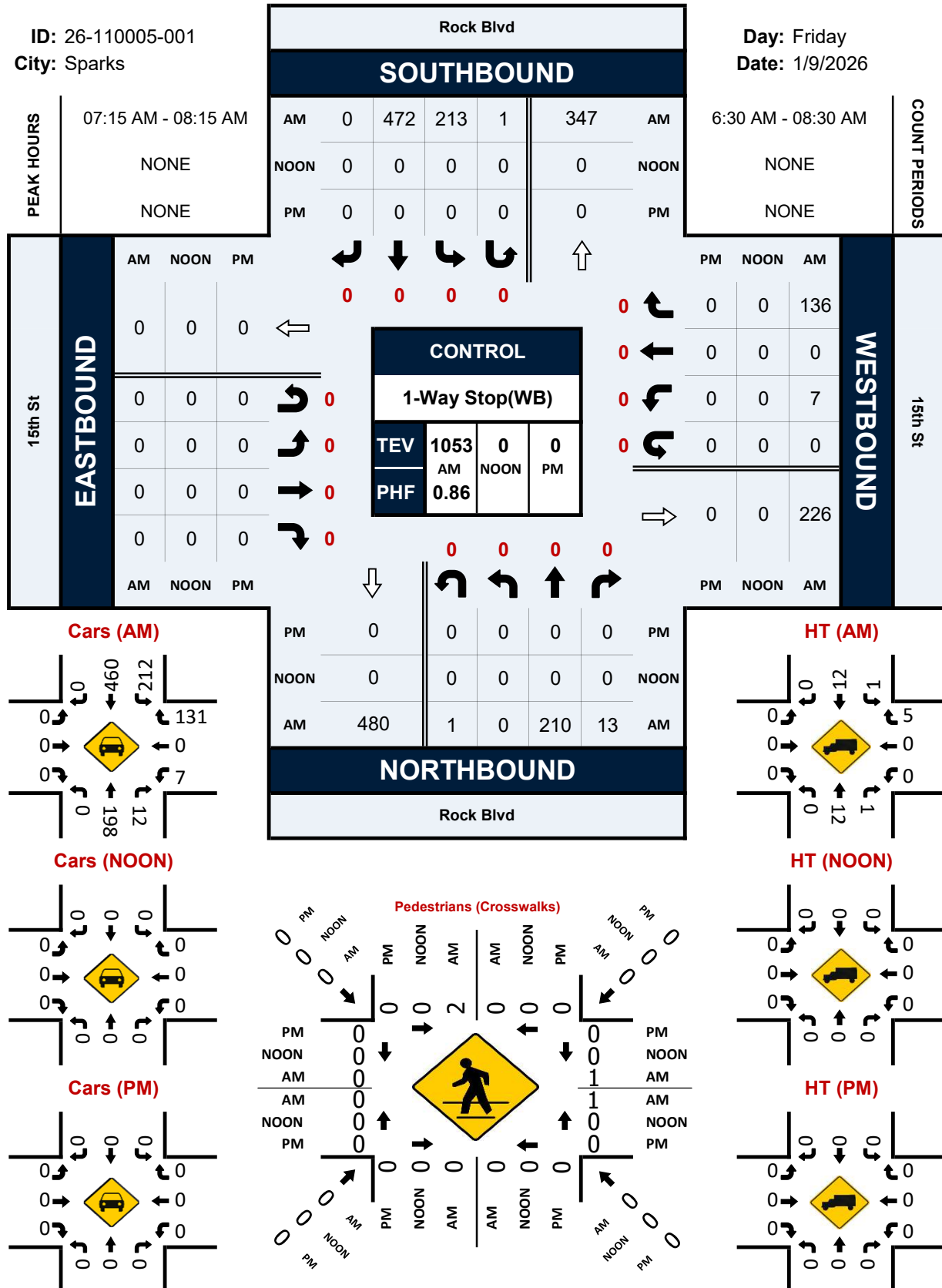
Prepared by National Data & Surveying Services

Rock Blvd & 15th St

Peak Hour Turning Movement Count

ID: 26-110005-001
City: Sparks

Day: Friday
Date: 1/9/2026



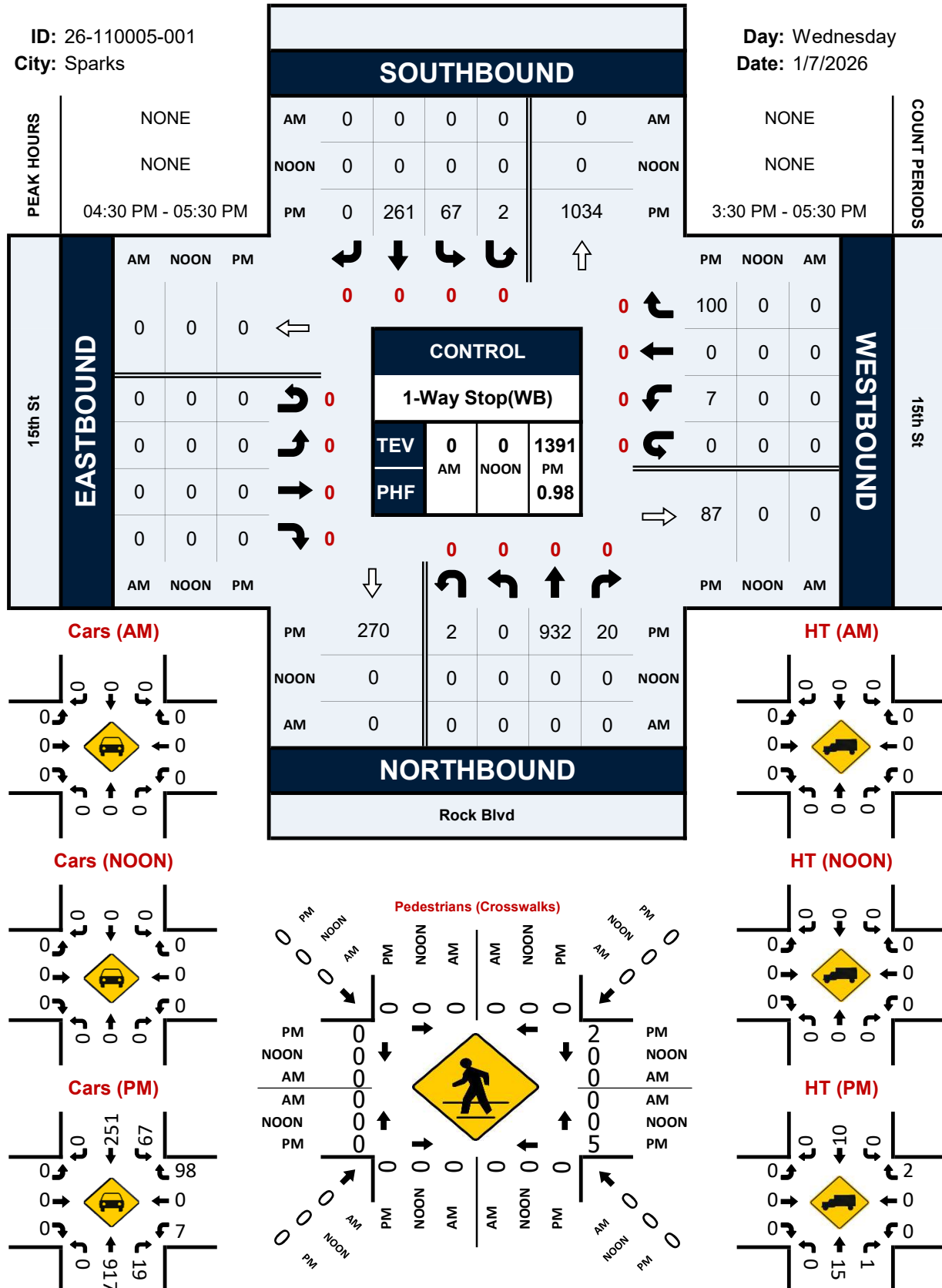
Prepared by National Data & Surveying Services

Rock Blvd & 15th St

Peak Hour Turning Movement Count

ID: 26-110005-001
City: Sparks

Day: Wednesday
Date: 1/7/2026



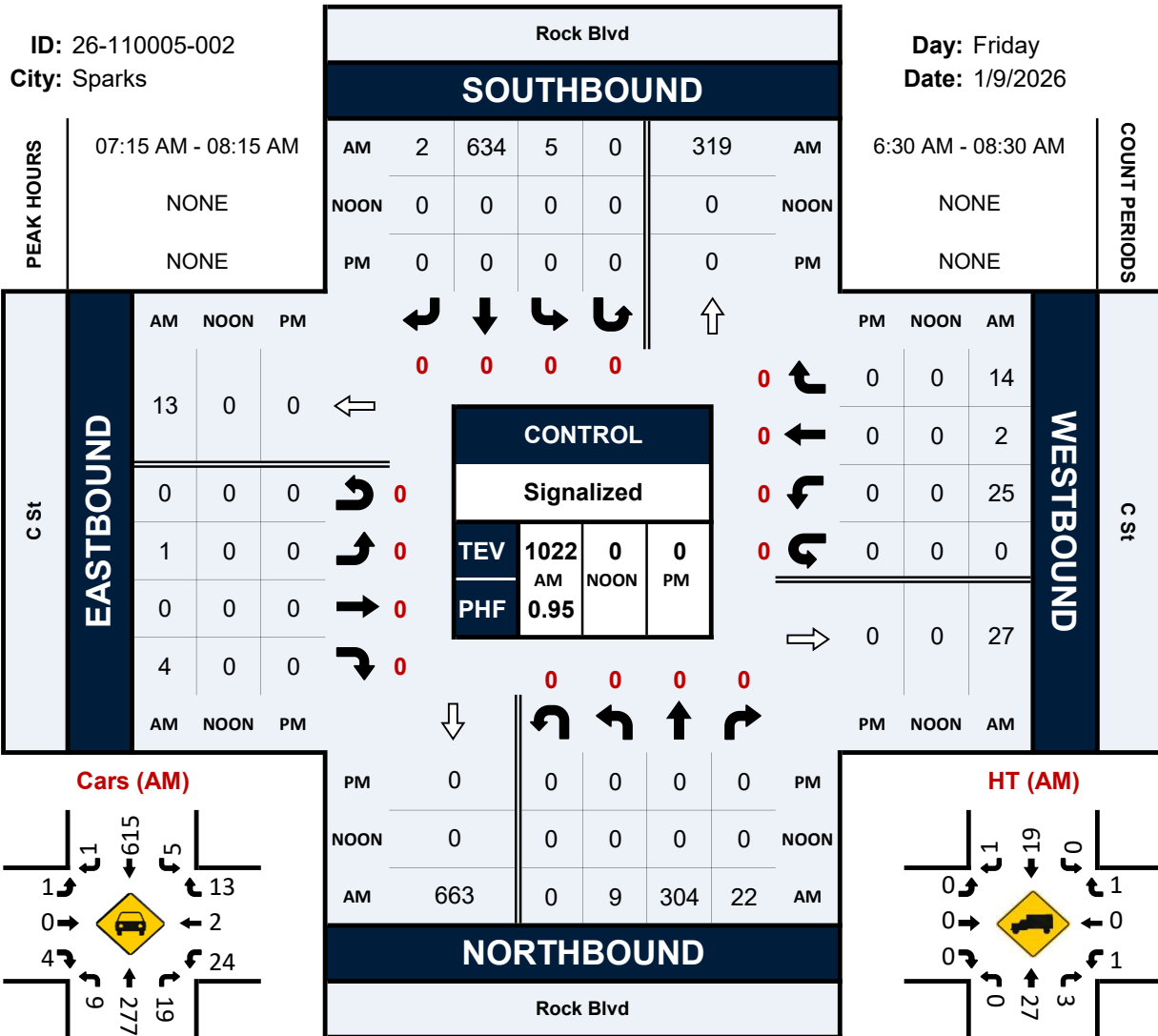
Prepared by National Data & Surveying Services

Rock Blvd & C St

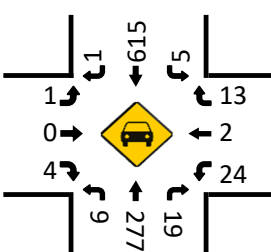
Peak Hour Turning Movement Count

ID: 26-110005-002
City: Sparks

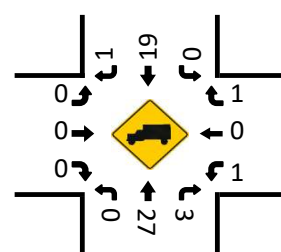
Day: Friday
Date: 1/9/2026



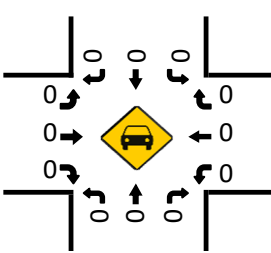
Cars (AM)



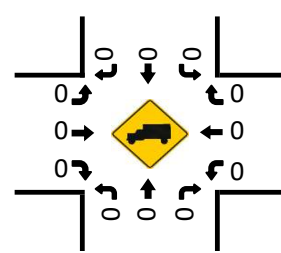
HT (AM)



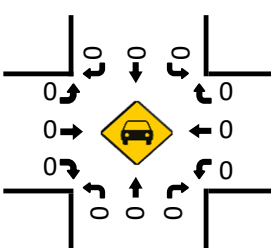
Cars (NOON)



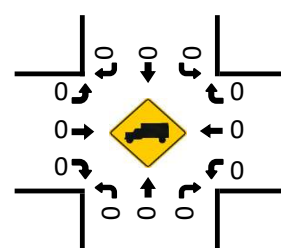
HT (NOON)



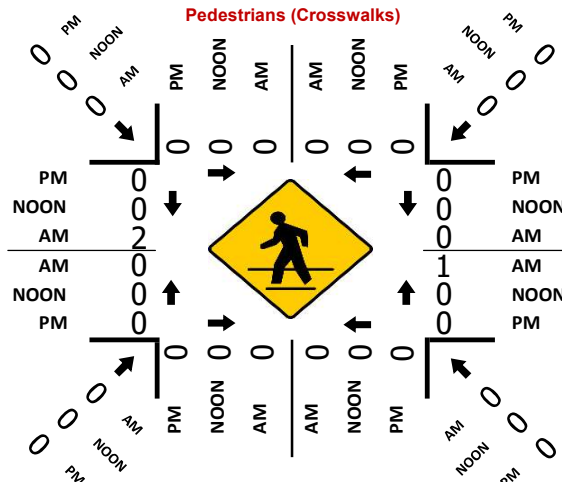
Cars (PM)



HT (PM)



Pedestrians (Crosswalks)

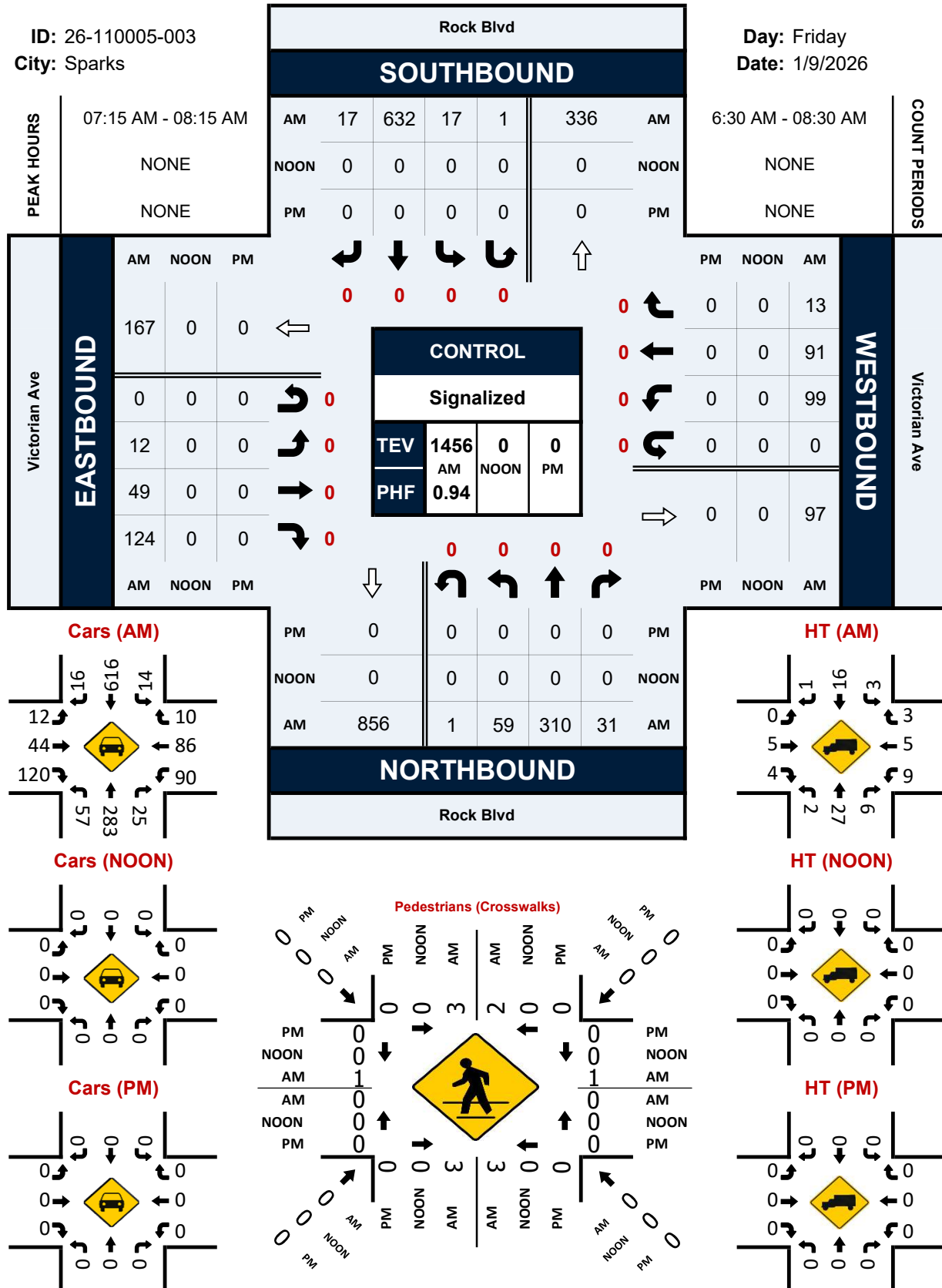


Prepared by National Data & Surveying Services

Rock Blvd & Victorian Ave**Peak Hour Turning Movement Count**

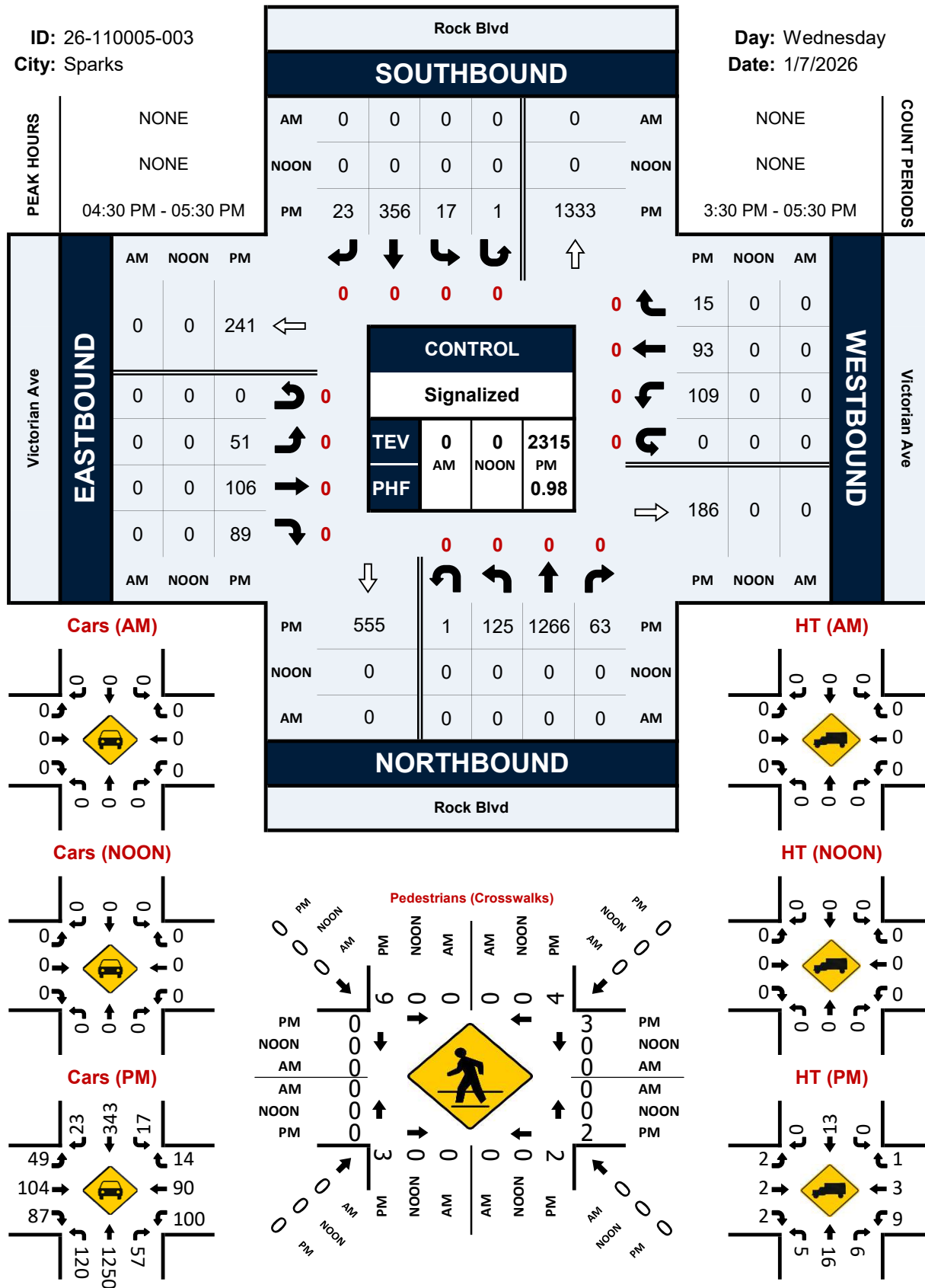
ID: 26-110005-003
City: Sparks

Day: Friday
Date: 1/9/2026



Peak Hour Turning Movement Count

Day: Wednesday
Date: 1/7/2026



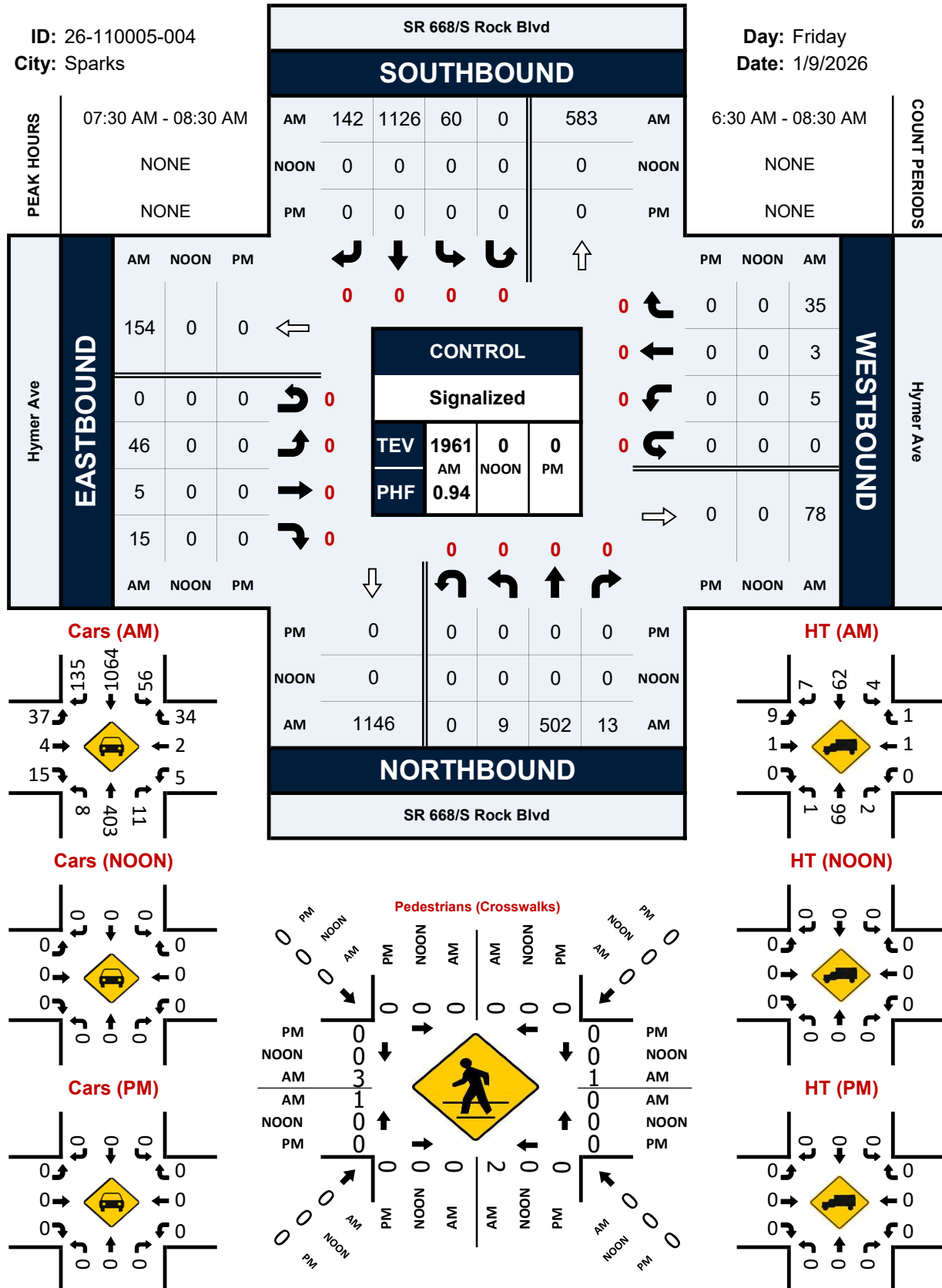
Prepared by National Data & Surveying Services

SR 668/S Rock Blvd & Hymer Ave

Peak Hour Turning Movement Count

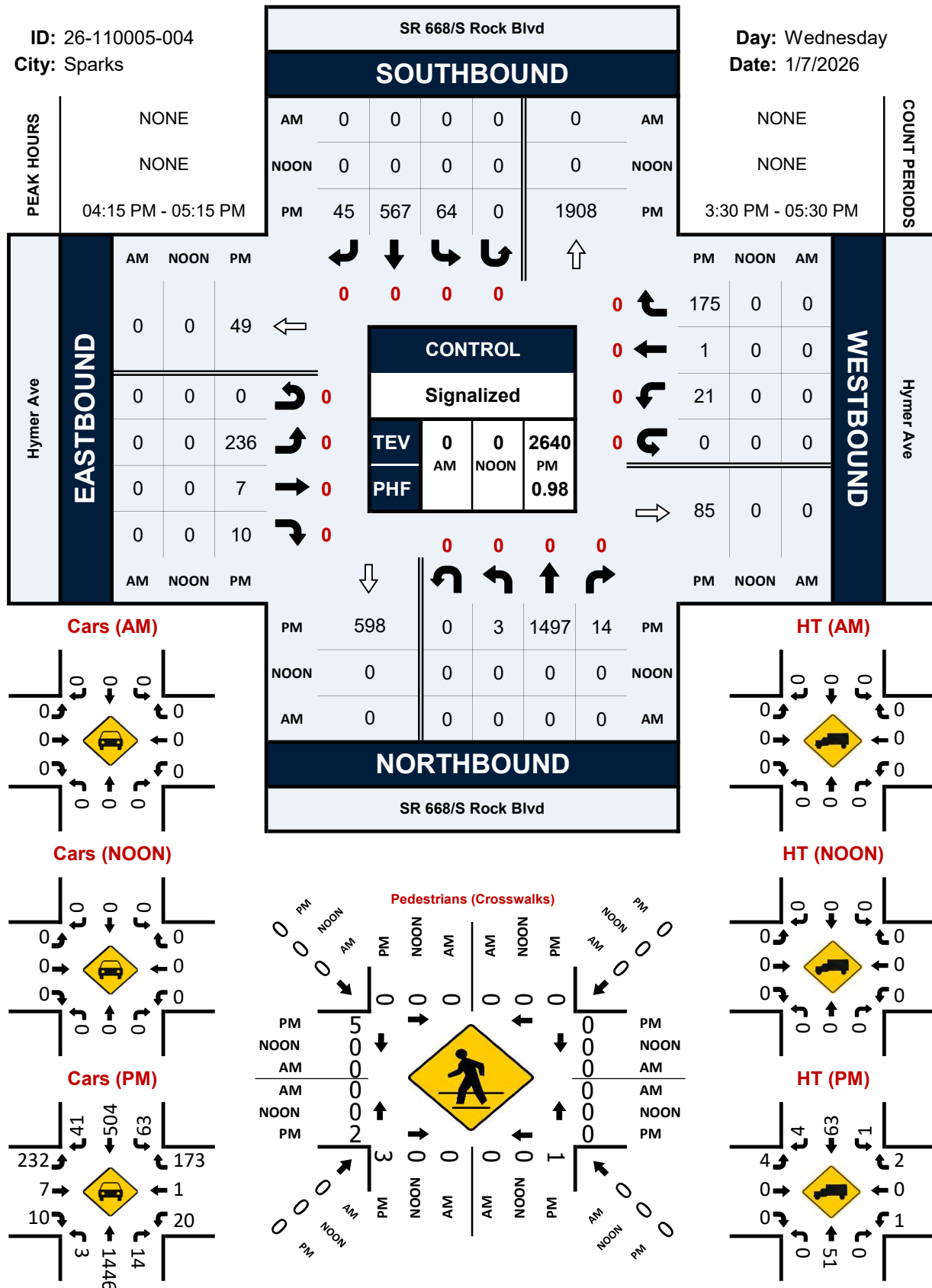
ID: 26-110005-004
City: Sparks

Day: Friday
Date: 1/9/2026



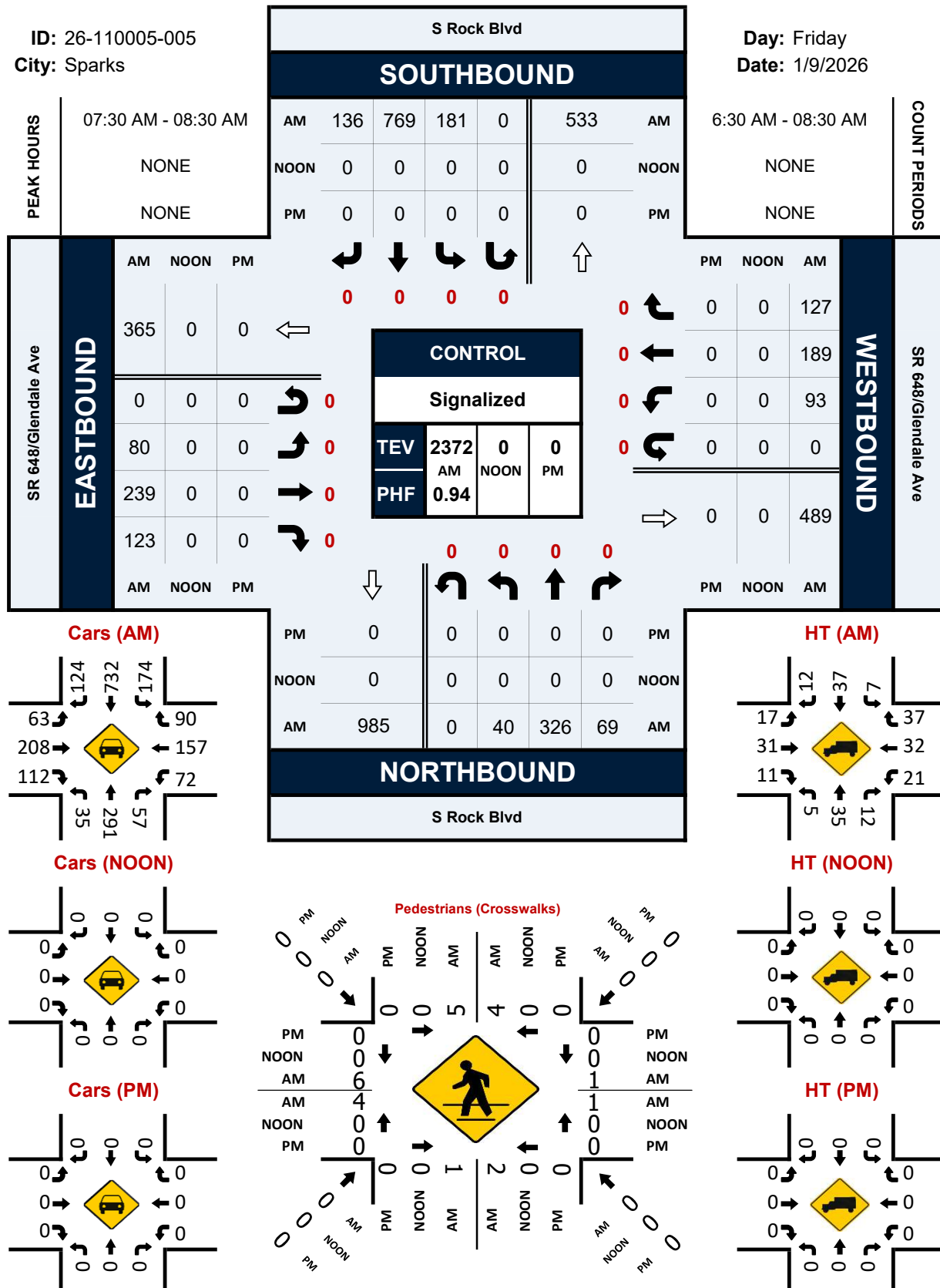
Peak Hour Turning Movement Count

Day: Wednesday
Date: 1/7/2026



Peak Hour Turning Movement Count

Day: Friday
Date: 1/9/2026

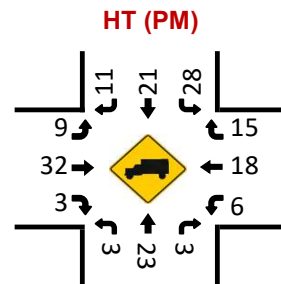
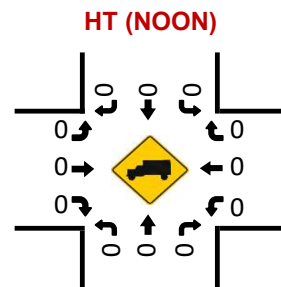
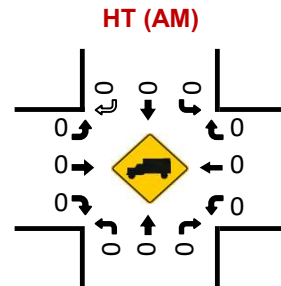
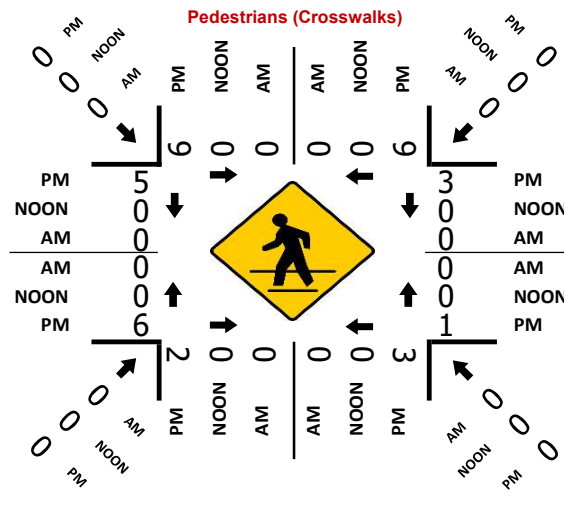
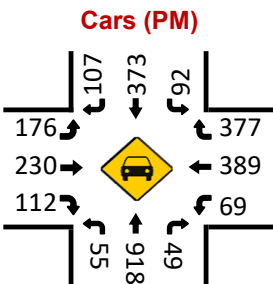
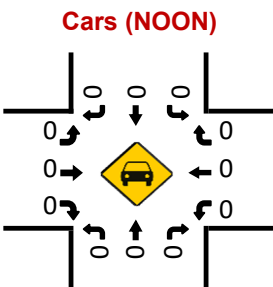
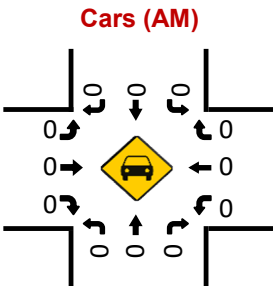
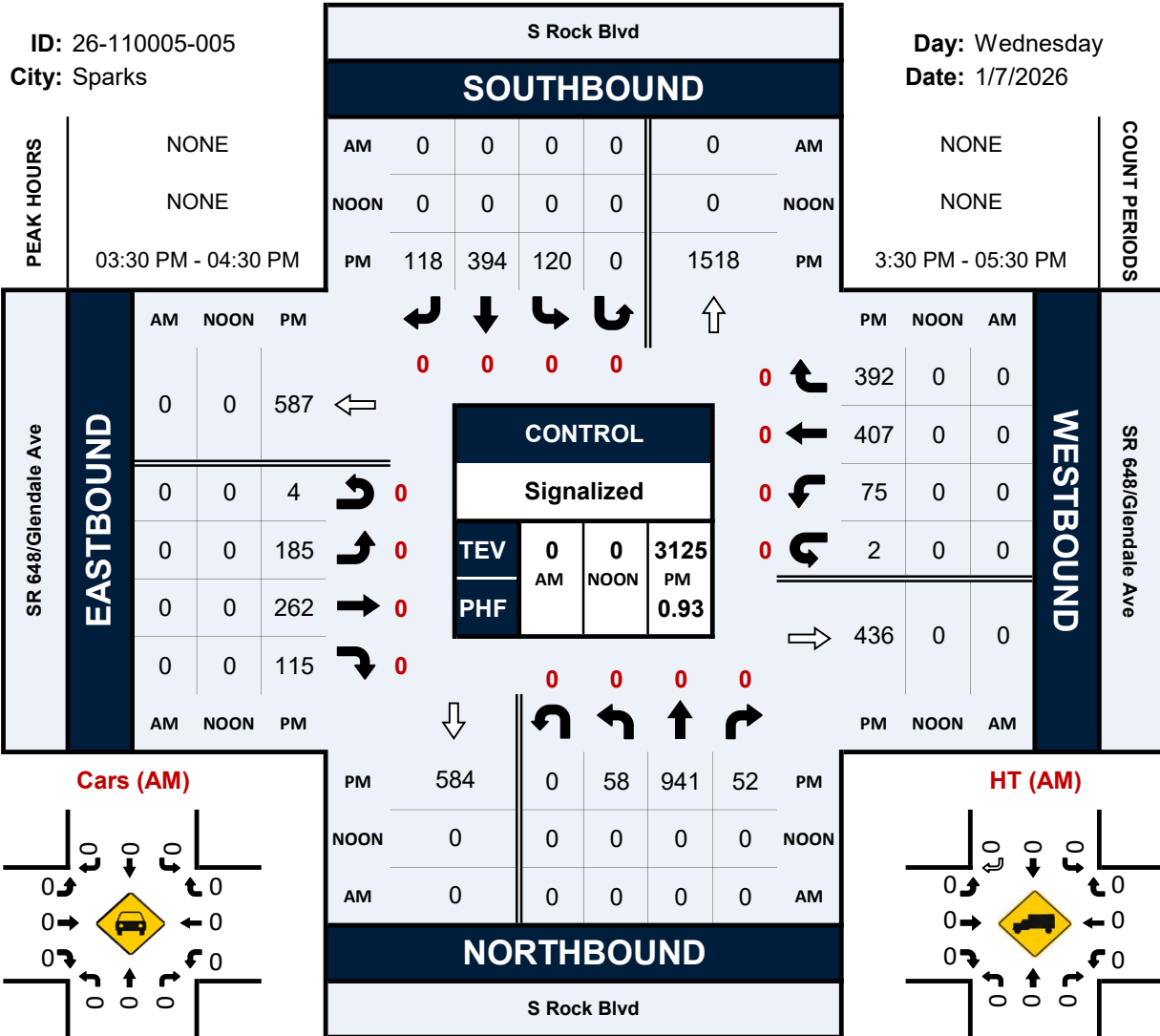


Prepared by National Data & Surveying Services

S Rock Blvd & SR 648/Glendale Ave**Peak Hour Turning Movement Count**

ID: 26-110005-005
City: Sparks

Day: Wednesday
Date: 1/7/2026

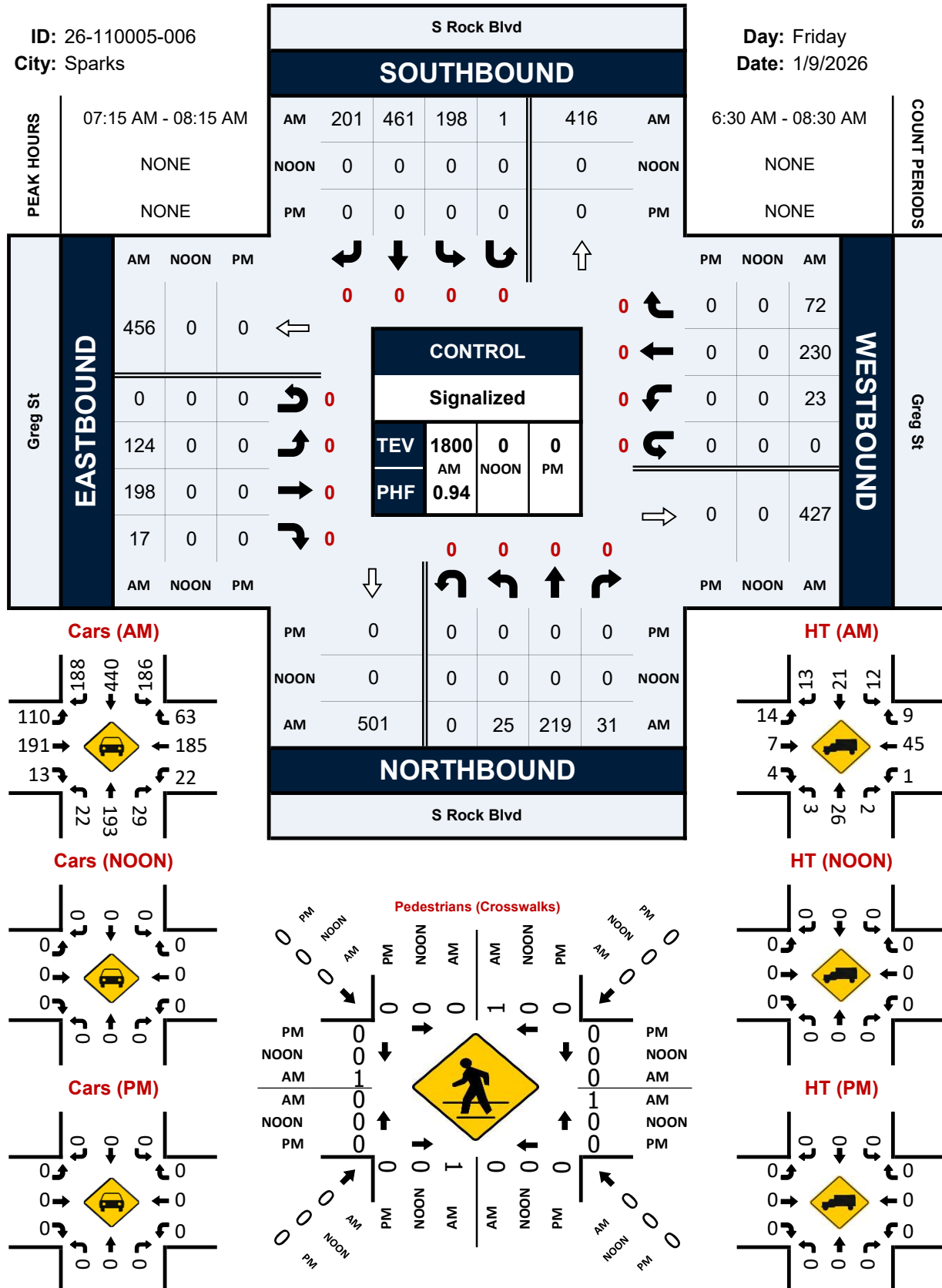


Prepared by National Data & Surveying Services

S Rock Blvd & Greg St**Peak Hour Turning Movement Count**

ID: 26-110005-006
City: Sparks

Day: Friday
Date: 1/9/2026



S Rock Blvd & Greg St

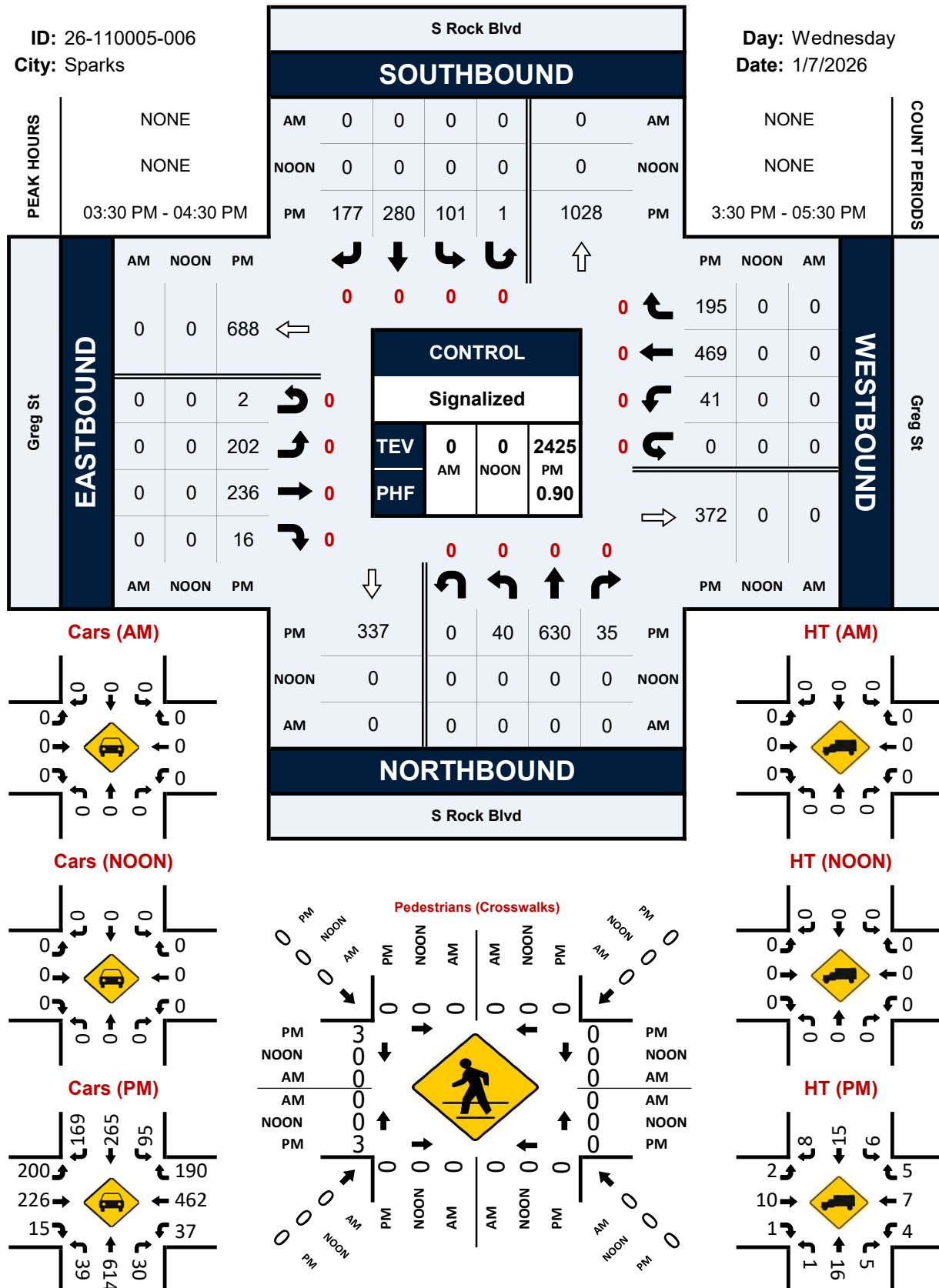
Peak Hour Turning Movement Count

ID: 26-110005-006

City: Sparks

Day: Wednesday

Date: 1/7/2026



Attachment F-B - Existing LOS Calculations

HCM 7th TWSC

1: Rock Blvd & 15th St

Intersection						
Int Delay, s/veh	3.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	8	150	231	22	242	472
Future Vol, veh/h	8	150	231	22	242	472
Conflicting Peds, #/hr	0	2	0	2	2	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	9	174	269	26	281	549
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1121	151	0	0	296	0
Stage 1	283	-	-	-	-	-
Stage 2	837	-	-	-	-	-
Critical Hdwy	6.86	6.96	-	-	4.16	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.33	-	-	2.23	-
Pot Cap-1 Maneuver	199	865	-	-	1255	-
Stage 1	736	-	-	-	-	-
Stage 2	383	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	154	862	-	-	1252	-
Mov Cap-2 Maneuver	154	-	-	-	-	-
Stage 1	735	-	-	-	-	-
Stage 2	297	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v	11.23	0	2.95			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	154	862	1252	-
HCM Lane V/C Ratio	-	-	0.061	0.202	0.225	-
HCM Control Delay (s/veh)	-	-	29.9	10.2	8.7	-
HCM Lane LOS	-	-	D	B	A	-
HCM 95th %tile Q(veh)	-	-	0.2	0.8	0.9	-

Attachment F-B - Existing LOS Calculations

HCM 7th Signalized Intersection Summary

2: Rock Blvd & C St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	0	4	28	2	15	10	334	24	6	697	2
Future Volume (veh/h)	1	0	4	28	2	15	10	334	24	6	697	2
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826
Adj Flow Rate, veh/h	1	0	3	29	2	11	11	352	18	6	734	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	5	5	5	5	5	5	5	5	5	5	5
Cap, veh/h	40	5	35	96	7	41	351	1814	807	577	1838	3
Arrive On Green	0.03	0.00	0.03	0.03	0.03	0.03	0.03	1.00	1.00	0.01	0.52	0.52
Sat Flow, veh/h	221	165	1158	1380	244	1341	1739	3469	1544	1739	3555	5
Grp Volume(v), veh/h	4	0	0	29	0	13	11	352	18	6	358	377
Grp Sat Flow(s),veh/h/ln	1543	0	0	1380	0	1585	1739	1735	1544	1739	1735	1825
Q Serve(g_s), s	0.0	0.0	0.0	2.4	0.0	1.1	0.4	0.0	0.0	0.2	17.0	17.0
Cycle Q Clear(g_c), s	0.3	0.0	0.0	2.7	0.0	1.1	0.4	0.0	0.0	0.2	17.0	17.0
Prop In Lane	0.25		0.75	1.00		0.85	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	80	0	0	96	0	48	351	1814	807	577	897	944
V/C Ratio(X)	0.05	0.00	0.00	0.30	0.00	0.27	0.03	0.19	0.02	0.01	0.40	0.40
Avail Cap(c_a), veh/h	480	0	0	464	0	471	459	1814	807	695	897	944
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.99	0.99	0.99	1.00	1.00	1.00
Uniform Delay (d), s/veh	63.6	0.0	0.0	64.7	0.0	64.0	15.9	0.0	0.0	15.3	19.8	19.8
Incr Delay (d2), s/veh	0.3	0.0	0.0	1.7	0.0	2.9	0.0	0.2	0.1	0.0	1.3	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.3	0.0	0.0	1.9	0.0	0.9	0.3	0.1	0.0	0.2	11.6	12.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	63.9	0.0	0.0	66.5	0.0	66.9	15.9	0.2	0.1	15.3	21.2	21.1
LnGrp LOS	E			E		E	B	A	A	B	C	C
Approach Vol, veh/h	4			42			381			741		
Approach Delay, s/veh	63.9			66.6			0.7			21.1		
Approach LOS	E			E			A			C		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.8	75.8		9.0	6.6	75.0		9.0				
Change Period (Y+Rc), s	4.8	5.2		4.9	4.9	5.2		4.9				
Max Green Setting (Gmax), s	10.2	69.8		40.1	10.1	69.8		40.1				
Max Q Clear Time (g_c+I1), s	2.2	2.0		2.3	2.4	19.0		4.7				
Green Ext Time (p_c), s	0.0	2.7		0.0	0.0	5.4		0.1				
Intersection Summary												
HCM 7th Control Delay, s/veh	16.2											
HCM 7th LOS	B											

Attachment F-B - Existing LOS Calculations

HCM 7th Signalized Intersection Summary

3: Rock Blvd & Victorian Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	13	54	136	109	100	14	66	341	34	20	695	19
Future Volume (veh/h)	13	54	136	109	100	14	66	341	34	20	695	19
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.99		0.99	0.99		0.97	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811
Adj Flow Rate, veh/h	14	57	71	115	105	11	69	359	25	21	732	14
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	6	6	6	6	6	6	6	6	6	6	6	6
Cap, veh/h	165	273	229	202	242	25	775	2337	162	412	1657	32
Arrive On Green	0.15	0.15	0.15	0.15	0.15	0.15	0.08	0.24	0.24	0.04	0.96	0.96
Sat Flow, veh/h	1226	1811	1516	1211	1607	168	1725	3264	226	1725	3452	66
Grp Volume(v), veh/h	14	57	71	115	0	116	69	188	196	21	365	381
Grp Sat Flow(s),veh/h/ln	1226	1811	1516	1211	0	1776	1725	1721	1770	1725	1721	1797
Q Serve(g_s), s	1.4	3.7	5.6	12.4	0.0	8.0	0.0	11.7	11.8	0.9	2.0	2.0
Cycle Q Clear(g_c), s	9.4	3.7	5.6	16.1	0.0	8.0	0.0	11.7	11.8	0.9	2.0	2.0
Prop In Lane	1.00		1.00	1.00		0.09	1.00		0.13	1.00		0.04
Lane Grp Cap(c), veh/h	165	273	229	202	0	268	775	1232	1267	412	826	863
V/C Ratio(X)	0.08	0.21	0.31	0.57	0.00	0.43	0.09	0.15	0.15	0.05	0.44	0.44
Avail Cap(c_a), veh/h	345	538	450	380	0	527	775	1232	1267	567	826	863
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.97	0.97	0.97	0.98	0.98	0.98
Uniform Delay (d), s/veh	56.4	50.3	51.1	57.4	0.0	52.1	10.8	19.1	19.2	20.4	1.4	1.4
Incr Delay (d2), s/veh	0.2	0.4	0.8	2.5	0.0	1.1	0.0	0.3	0.3	0.0	1.7	1.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.8	3.1	4.0	7.1	0.0	6.6	1.7	9.3	9.6	0.7	1.5	1.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.6	50.6	51.8	59.8	0.0	53.2	10.8	19.4	19.4	20.5	3.1	3.1
LnGrp LOS	E	D	D	E		D	B	B	B	C	A	A
Approach Vol, veh/h	142			231			453			767		
Approach Delay, s/veh	51.8			56.5			18.1			3.6		
Approach LOS	D			E			B			A		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.8	101.9		25.2	39.8	70.0		25.2				
Change Period (Y+Rc), s	5.1	* 5.3		4.9	5.3	5.2		4.9				
Max Green Setting (Gmax), s	14.9	* 65		40.1	14.7	64.8		40.1				
Max Q Clear Time (g_c+I), s	12.9	13.8		11.4	2.0	4.0		18.1				
Green Ext Time (p_c), s	0.0	2.5		0.6	0.1	5.5		1.0				
Intersection Summary												
HCM 7th Control Delay, s/veh	19.7											
HCM 7th LOS	B											
Notes												
User approved pedestrian interval to be less than phase max green.												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment F-B - Existing LOS Calculations

HCM 7th Signalized Intersection Summary

4: Rock Blvd & Hymer Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↕	↕		↕	↕	
Traffic Volume (veh/h)	51	6	17	6	3	39	10	552	14	66	1239	156
Future Volume (veh/h)	51	6	17	6	3	39	10	552	14	66	1239	156
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767
Adj Flow Rate, veh/h	54	6	13	6	3	28	11	581	11	69	1304	115
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	9	9	9	9	9	9	9	9	9	9	9	9
Cap, veh/h	72	8	17	7	4	34	236	2438	46	629	2319	204
Arrive On Green	0.06	0.06	0.06	0.03	0.03	0.03	0.01	0.72	0.72	0.02	0.50	0.50
Sat Flow, veh/h	1220	136	294	247	124	1153	1682	3369	64	1682	3114	274
Grp Volume(v), veh/h	73	0	0	37	0	0	11	289	303	69	701	718
Grp Sat Flow(s), veh/h/ln	1649	0	0	1524	0	0	1682	1678	1755	1682	1678	1710
Q Serve(g_s), s	5.9	0.0	0.0	3.3	0.0	0.0	0.2	7.8	7.8	1.4	39.2	39.6
Cycle Q Clear(g_c), s	5.9	0.0	0.0	3.3	0.0	0.0	0.2	7.8	7.8	1.4	39.2	39.6
Prop In Lane	0.74		0.18	0.16		0.76	1.00		0.04	1.00		0.16
Lane Grp Cap(c), veh/h	98	0	0	45	0	0	236	1214	1270	629	1249	1273
V/C Ratio(X)	0.75	0.00	0.00	0.82	0.00	0.00	0.05	0.24	0.24	0.11	0.56	0.56
Avail Cap(c_a), veh/h	238	0	0	164	0	0	406	1214	1270	703	1249	1273
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.67	0.67	0.67
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	0.95	0.95	0.95	0.93	0.93	0.93
Uniform Delay (d), s/veh	62.5	0.0	0.0	65.1	0.0	0.0	9.9	6.2	6.2	4.4	18.5	18.6
Incr Delay (d2), s/veh	10.7	0.0	0.0	29.0	0.0	0.0	0.1	0.4	0.4	0.1	1.7	1.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	5.0	0.0	0.0	2.9	0.0	0.0	0.2	5.0	5.2	0.8	23.5	24.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	73.2	0.0	0.0	94.2	0.0	0.0	10.0	6.7	6.7	4.4	20.2	20.3
LnGrp LOS	E			F			A	A	A	A	C	C
Approach Vol, veh/h	73			37			603			1488		
Approach Delay, s/veh	73.2			94.2			6.7			19.5		
Approach LOS	E			F			A			B		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.1	102.9		9.5	6.3	105.7		13.5				
Change Period (Y+Rc), s	4.5	5.2		5.5	4.6	5.2		5.5				
Max Green Setting (Gmax), s	10.5	69.8		14.5	15.4	64.8		19.5				
Max Q Clear Time (g_c+I), s	13.4	9.8		5.3	2.2	41.6		7.9				
Green Ext Time (p_c), s	0.1	4.2		0.1	0.0	11.4		0.2				
Intersection Summary												
HCM 7th Control Delay, s/veh	19.0											
HCM 7th LOS	B											

Attachment F-B - Existing LOS Calculations

HCM 7th Signalized Intersection Summary

5: Rock Blvd & Glendale Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	88	263	135	102	208	140	44	359	76	199	846	150
Future Volume (veh/h)	88	263	135	102	208	140	44	359	76	199	846	150
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	94	280	72	109	221	75	47	382	41	212	900	80
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	116	417	179	132	451	197	60	1058	468	274	1228	543
Arrive On Green	0.07	0.13	0.13	0.08	0.14	0.14	0.04	0.32	0.32	0.08	0.37	0.37
Sat Flow, veh/h	1668	3328	1430	1668	3328	1455	1668	3328	1471	3237	3328	1473
Grp Volume(v), veh/h	94	280	72	109	221	75	47	382	41	212	900	80
Grp Sat Flow(s),veh/h/ln	1668	1664	1430	1668	1664	1455	1668	1664	1471	1618	1664	1473
Q Serve(g_s), s	7.5	10.8	3.8	8.7	8.3	6.3	3.8	11.9	2.6	8.7	31.6	2.0
Cycle Q Clear(g_c), s	7.5	10.8	3.8	8.7	8.3	6.3	3.8	11.9	2.6	8.7	31.6	2.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	116	417	179	132	451	197	60	1058	468	274	1228	543
V/C Ratio(X)	0.81	0.67	0.40	0.83	0.49	0.38	0.79	0.36	0.09	0.77	0.73	0.15
Avail Cap(c_a), veh/h	240	602	259	239	602	263	242	1058	468	1067	1228	543
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.96	0.96	0.96	0.75	0.75	0.75
Uniform Delay (d), s/veh	62.0	56.4	19.9	61.3	54.0	53.2	64.6	35.5	32.3	60.5	36.8	4.6
Incr Delay (d2), s/veh	12.7	1.9	1.5	12.2	0.8	1.2	19.2	0.9	0.4	3.5	2.9	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	6.5	8.2	4.1	7.4	6.4	4.3	3.5	8.6	1.8	6.4	18.5	3.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	74.7	58.3	21.3	73.5	54.8	54.4	83.8	36.4	32.7	64.1	39.8	5.0
LnGrp LOS	E	E	C	E	D	D	F	D	C	E	D	A
Approach Vol, veh/h	446			405			470			1192		
Approach Delay, s/veh	55.8			59.8			40.8			41.8		
Approach LOS	E			E			D			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	16.9	48.3	16.4	22.5	10.2	55.0	15.0	23.9				
Change Period (Y+Rc), s	5.5	* 5.4	5.7	5.6	5.4	5.2	5.6	5.6				
Max Green Setting (Gmax), s	41.5	* 25	19.3	24.4	19.6	49.8	19.4	24.4				
Max Q Clear Time (g_c+10), s	110.7	13.9	10.7	12.8	5.8	33.6	9.5	10.3				
Green Ext Time (p_c), s	0.8	1.9	0.2	1.5	0.1	6.2	0.1	1.4				
Intersection Summary												
HCM 7th Control Delay, s/veh	47.0											
HCM 7th LOS	D											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment F-B - Existing LOS Calculations

HCM 7th Signalized Intersection Summary

6: Rock Blvd & Greg St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	136	218	19	25	253	79	28	241	34	219	507	221
Future Volume (veh/h)	136	218	19	25	253	79	28	241	34	219	507	221
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No				No				No			
Adj Sat Flow, veh/h/ln	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767
Adj Flow Rate, veh/h	145	232	14	27	269	58	30	256	25	233	539	118
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	9	9	9	9	9	9	9	9	9	9	9	9
Cap, veh/h	229	606	36	225	339	72	316	1255	122	453	1395	622
Arrive On Green	0.09	0.19	0.19	0.02	0.12	0.12	0.03	0.41	0.41	0.07	0.83	0.83
Sat Flow, veh/h	1682	3217	193	1682	2754	584	1682	3091	299	1682	3357	1496
Grp Volume(v), veh/h	145	120	126	27	162	165	30	138	143	233	539	118
Grp Sat Flow(s),veh/h/ln	1682	1678	1732	1682	1678	1660	1682	1678	1712	1682	1678	1496
Q Serve(g_s), s	9.8	8.5	8.6	1.9	12.7	13.0	1.5	7.2	7.3	0.0	5.4	2.1
Cycle Q Clear(g_c), s	9.8	8.5	8.6	1.9	12.7	13.0	1.5	7.2	7.3	0.0	5.4	2.1
Prop In Lane	1.00		0.11	1.00		0.35	1.00		0.17	1.00		1.00
Lane Grp Cap(c), veh/h	229	316	326	225	207	204	316	681	695	453	1395	622
V/C Ratio(X)	0.63	0.38	0.39	0.12	0.79	0.81	0.10	0.20	0.21	0.51	0.39	0.19
Avail Cap(c_a), veh/h	323	316	326	428	303	300	454	681	695	573	1395	622
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.82	0.82	0.82
Uniform Delay (d), s/veh	45.1	47.9	47.9	50.0	57.5	57.6	26.6	26.0	26.0	33.7	7.1	6.8
Incr Delay (d2), s/veh	2.9	0.8	0.7	0.2	8.0	9.7	0.1	0.7	0.7	0.7	0.7	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	7.7	6.5	6.8	1.5	9.8	10.1	1.1	5.5	5.7	9.8	3.0	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	48.0	48.7	48.7	50.2	65.4	67.3	26.8	26.6	26.7	34.4	7.8	7.4
LnGrp LOS	D	D	D	D	E	E	C	C	C	C	A	A
Approach Vol, veh/h	391				354				311		890	
Approach Delay, s/veh	48.4				65.1				26.7		14.7	
Approach LOS	D				E				C		B	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	60.4	60.0	8.7	31.0	8.9	61.5	17.5	22.2				
Change Period (Y+Rc), s	5.4	5.2	5.5	5.6	5.5	* 5.4	5.5	5.6				
Max Green Setting (Gmax), s	14.6	54.8	19.5	24.4	14.5	* 55	19.5	24.4				
Max Q Clear Time (g_c+I2), s	12.0	9.3	3.9	10.6	3.5	7.4	11.8	15.0				
Green Ext Time (p_c), s	0.5	1.8	0.0	1.1	0.0	4.7	0.2	1.3				
Intersection Summary												
HCM 7th Control Delay, s/veh			32.6									
HCM 7th LOS			C									
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment F-B - Existing LOS Calculations

HCM 7th TWSC

1: Rock Blvd & 15th St

Intersection

Int Delay, s/veh 1.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	7	100	932	35	92	261
Future Vol, veh/h	7	100	932	35	92	261
Conflicting Peds, #/hr	0	0	0	7	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	98	98	98	98	98	98
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	102	951	36	94	266

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	1297	500	0
Stage 1	976	-	-
Stage 2	321	-	-
Critical Hdwy	6.84	6.94	-
Critical Hdwy Stg 1	5.84	-	-
Critical Hdwy Stg 2	5.84	-	-
Follow-up Hdwy	3.52	3.32	-
Pot Cap-1 Maneuver	154	516	-
Stage 1	326	-	-
Stage 2	708	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	132	513	-
Mov Cap-2 Maneuver	132	-	-
Stage 1	324	-	-
Stage 2	611	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v15.08		0	2.88
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBRWBLn1WBLn2	SBL	SBT
Capacity (veh/h)	-	- 132 513	687	-
HCM Lane V/C Ratio	-	- 0.054 0.199	0.137	-
HCM Control Delay (s/veh)	-	- 33.9 13.8	11.1	-
HCM Lane LOS	-	- D B	B	-
HCM 95th %tile Q(veh)	-	- 0.2 0.7	0.5	-

Attachment F-B - Existing LOS Calculations

HCM 7th Signalized Intersection Summary

2: Rock Blvd & C St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	3	1	4	26	4	15	9	1265	60	11	361	1
Future Volume (veh/h)	3	1	4	26	4	15	9	1265	60	11	361	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.98		0.98	0.98		0.98	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	3	1	3	27	4	10	9	1291	29	11	368	1
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	58	23	35	122	24	61	895	2971	1293	378	3043	8
Arrive On Green	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.84	0.84	0.01	0.84	0.84
Sat Flow, veh/h	450	446	672	1381	465	1163	1781	3554	1547	1781	3635	10
Grp Volume(v), veh/h	7	0	0	27	0	14	9	1291	29	11	180	189
Grp Sat Flow(s),veh/h/ln	1567	0	0	1381	0	1629	1781	1777	1547	1781	1777	1868
Q Serve(g_s), s	0.0	0.0	0.0	2.1	0.0	1.2	0.1	14.0	0.5	0.1	2.8	2.8
Cycle Q Clear(g_c), s	0.6	0.0	0.0	2.7	0.0	1.2	0.1	14.0	0.5	0.1	2.8	2.8
Prop In Lane	0.43		0.43	1.00		0.71	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	116	0	0	122	0	85	895	2971	1293	378	1487	1564
V/C Ratio(X)	0.06	0.00	0.00	0.22	0.00	0.16	0.01	0.43	0.02	0.03	0.12	0.12
Avail Cap(c_a), veh/h	589	0	0	557	0	598	996	2971	1293	478	1487	1564
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.80	0.80	0.80	1.00	1.00	1.00
Uniform Delay (d), s/veh	67.6	0.0	0.0	68.6	0.0	67.9	1.8	3.2	2.1	2.4	2.2	2.2
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.9	0.0	0.9	0.0	0.4	0.0	0.0	0.2	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.5	0.0	0.0	1.9	0.0	1.0	0.1	7.2	0.2	0.1	1.5	1.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	67.8	0.0	0.0	69.5	0.0	68.8	1.8	3.5	2.1	2.4	2.4	2.4
LnGrp LOS	E			E		E	A	A	A	A	A	A
Approach Vol, veh/h	7			41			1329			380		
Approach Delay, s/veh	67.8			69.2			3.5			2.4		
Approach LOS	E			E			A			A		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.6	130.6		12.8	6.5	130.8		12.8				
Change Period (Y+Rc), s	4.8	5.2		4.9	4.9	5.2		4.9				
Max Green Setting (Gmax), s	10.2	69.8		55.1	10.1	69.8		55.1				
Max Q Clear Time (g_c+l1), s	2.1	16.0		2.6	2.1	4.8		4.7				
Green Ext Time (p_c), s	0.0	14.4		0.0	0.0	2.4		0.1				
Intersection Summary												
HCM 7th Control Delay, s/veh				5.0								
HCM 7th LOS				A								

Attachment F-B - Existing LOS Calculations

HCM 7th Signalized Intersection Summary

3: Rock Blvd & Victorian Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	106	89	109	93	15	126	1266	63	18	356	23
Future Volume (veh/h)	51	106	89	109	93	15	126	1266	63	18	356	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.98		0.97	0.99		0.96	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	52	108	45	111	95	10	129	1292	45	18	363	16
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	220	200	164	232	231	24	505	1630	57	142	1484	65
Arrive On Green	0.04	0.11	0.11	0.07	0.14	0.14	0.05	0.47	0.47	0.02	0.43	0.43
Sat Flow, veh/h	1767	1856	1529	1767	1644	173	1767	3472	121	1767	3435	151
Grp Volume(v), veh/h	52	108	45	111	0	105	129	655	682	18	186	193
Grp Sat Flow(s),veh/h/ln	1767	1856	1529	1767	0	1817	1767	1763	1830	1767	1763	1824
Q Serve(g_s), s	3.9	8.3	4.1	8.2	0.0	7.9	5.9	47.1	47.2	0.8	10.0	10.1
Cycle Q Clear(g_c), s	3.9	8.3	4.1	8.2	0.0	7.9	5.9	47.1	47.2	0.8	10.0	10.1
Prop In Lane	1.00		1.00	1.00		0.10	1.00		0.07	1.00		0.08
Lane Grp Cap(c), veh/h	220	200	164	232	0	255	505	827	859	142	762	788
V/C Ratio(X)	0.24	0.54	0.27	0.48	0.00	0.41	0.26	0.79	0.79	0.13	0.24	0.25
Avail Cap(c_a), veh/h	423	372	307	353	0	340	584	827	859	345	762	788
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.56	0.56	0.56	1.00	1.00	1.00
Uniform Delay (d), s/veh	56.8	63.4	61.5	53.0	0.0	58.8	20.9	33.6	33.7	29.0	27.0	27.1
Incr Delay (d2), s/veh	0.5	2.3	0.9	1.5	0.0	1.1	0.1	4.4	4.3	0.4	0.8	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.2	7.3	2.9	6.8	0.0	6.7	4.5	26.7	27.6	0.7	7.9	8.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	57.4	65.7	62.4	54.6	0.0	59.9	21.0	38.1	38.0	29.4	27.8	27.8
LnGrp LOS	E	E	E	D		E	C	D	D	C	C	C
Approach Vol, veh/h	205			216			1466			397		
Approach Delay, s/veh	62.9			57.1			36.5			27.9		
Approach LOS	E			E			D			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	7.7	75.6	14.7	21.0	13.3	70.0	9.8	26.0				
Change Period (Y+Rc), s	5.1	5.2	4.5	4.9	5.3	5.2	4.5	4.9				
Max Green Setting (Gmax), s	19.9	59.8	20.5	30.1	14.7	64.8	22.5	28.1				
Max Q Clear Time (g_c+I), s	12.8	49.2	10.2	10.3	7.9	12.1	5.9	9.9				
Green Ext Time (p_c), s	0.0	6.4	0.2	0.6	0.2	2.5	0.1	0.4				
Intersection Summary												
HCM 7th Control Delay, s/veh	39.3											
HCM 7th LOS	D											

Attachment F-B - Existing LOS Calculations

HCM 7th Signalized Intersection Summary

4: Rock Blvd & Hymer Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↕	↕		↕	↕	
Traffic Volume (veh/h)	236	7	10	21	1	175	3	1497	14	64	567	45
Future Volume (veh/h)	236	7	10	21	1	175	3	1497	14	64	567	45
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.97	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826
Adj Flow Rate, veh/h	241	7	7	21	1	125	3	1528	10	65	579	32
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	5	5	5	5	5	5	5	5	5	5	5	5
Cap, veh/h	266	8	8	21	1	128	422	1644	11	121	1643	91
Arrive On Green	0.16	0.16	0.16	0.10	0.10	0.10	0.00	0.47	0.47	0.06	0.98	0.98
Sat Flow, veh/h	1640	48	48	222	11	1324	1739	3532	23	1739	3341	184
Grp Volume(v), veh/h	255	0	0	147	0	0	3	750	788	65	300	311
Grp Sat Flow(s), veh/h/ln	1735	0	0	1557	0	0	1739	1735	1821	1739	1735	1791
Q Serve(g_s), s	21.7	0.0	0.0	14.1	0.0	0.0	0.1	61.1	61.2	2.9	0.6	0.6
Cycle Q Clear(g_c), s	21.7	0.0	0.0	14.1	0.0	0.0	0.1	61.1	61.2	2.9	0.6	0.6
Prop In Lane	0.95		0.03	0.14		0.85	1.00		0.01	1.00		0.10
Lane Grp Cap(c), veh/h	282	0	0	150	0	0	422	807	847	121	853	881
V/C Ratio(X)	0.91	0.00	0.00	0.98	0.00	0.00	0.01	0.93	0.93	0.54	0.35	0.35
Avail Cap(c_a), veh/h	341	0	0	150	0	0	594	807	847	247	853	881
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	0.63	0.63	0.63	0.97	0.97	0.97
Uniform Delay (d), s/veh	61.7	0.0	0.0	67.6	0.0	0.0	21.2	37.8	37.8	33.5	0.6	0.6
Incr Delay (d2), s/veh	23.8	0.0	0.0	66.1	0.0	0.0	0.0	13.1	12.7	3.6	1.1	1.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	17.0	0.0	0.0	13.2	0.0	0.0	0.1	35.5	37.0	2.3	0.8	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	85.5	0.0	0.0	133.7	0.0	0.0	21.2	50.8	50.5	37.1	1.7	1.7
LnGrp LOS	F			F			C	D	D	D	A	A
Approach Vol, veh/h	255			147			1541			676		
Approach Delay, s/veh	85.5			133.7			50.6			5.1		
Approach LOS	F			F			D			A		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.2	75.0		20.0	5.2	79.0		29.8				
Change Period (Y+Rc), s	4.5	5.2		5.5	4.6	5.2		5.5				
Max Green Setting (Gmax), s	15.5	69.8		14.5	15.4	69.8		29.5				
Max Q Clear Time (g_c+I), s	14.9	63.2		16.1	2.1	2.6		23.7				
Green Ext Time (p_c), s	0.1	4.9		0.0	0.0	4.3		0.7				
Intersection Summary												
HCM 7th Control Delay, s/veh	46.9											
HCM 7th LOS	D											

Attachment F-B - Existing LOS Calculations

HCM 7th Signalized Intersection Summary

5: Rock Blvd & Glendale Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	189	262	115	77	407	392	58	941	52	120	394	111
Future Volume (veh/h)	189	262	115	77	407	392	58	941	52	120	394	111
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.96	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811
Adj Flow Rate, veh/h	203	282	59	83	438	210	62	1012	28	129	424	59
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	6	6	6	6	6	6	6	6	6	6	6	6
Cap, veh/h	226	782	343	103	540	231	94	1257	548	175	1257	549
Arrive On Green	0.13	0.23	0.23	0.06	0.16	0.16	0.02	0.12	0.12	0.10	0.73	0.73
Sat Flow, veh/h	1725	3441	1511	1725	3441	1476	1725	3441	1501	3346	3441	1502
Grp Volume(v), veh/h	203	282	59	83	438	210	62	1012	28	129	424	59
Grp Sat Flow(s),veh/h/ln	1725	1721	1511	1725	1721	1476	1725	1721	1501	1673	1721	1502
Q Serve(g_s), s	17.4	10.3	3.0	7.1	18.4	14.2	5.4	43.0	2.5	5.6	6.6	1.7
Cycle Q Clear(g_c), s	17.4	10.3	3.0	7.1	18.4	14.2	5.4	43.0	2.5	5.6	6.6	1.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	226	782	343	103	540	231	94	1257	548	175	1257	549
V/C Ratio(X)	0.90	0.36	0.17	0.81	0.81	0.91	0.66	0.81	0.05	0.74	0.34	0.11
Avail Cap(c_a), veh/h	281	789	346	222	674	289	225	1257	548	435	1257	549
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.70	0.70	0.70	0.97	0.97	0.97
Uniform Delay (d), s/veh	64.2	48.8	19.3	69.7	61.1	28.4	72.3	60.8	43.0	66.1	13.7	13.1
Incr Delay (d2), s/veh	25.7	0.3	0.2	13.6	6.0	26.6	5.5	4.0	0.1	5.7	0.7	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	14.3	8.0	3.2	6.4	13.3	11.1	4.7	27.0	1.7	4.4	4.2	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	89.9	49.1	19.6	83.3	67.1	54.9	77.8	64.7	43.1	71.9	14.4	13.4
LnGrp LOS	F	D	B	F	E	D	E	E	D	E	B	B
Approach Vol, veh/h	544			731			1102			612		
Approach Delay, s/veh	61.1			65.5			64.9			26.4		
Approach LOS	E			E			E			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	33.3	60.2	14.7	39.7	13.5	60.0	25.2	29.1				
Change Period (Y+Rc), s	5.5	* 5.4	5.7	5.6	5.4	5.2	5.6	5.6				
Max Green Setting (Gmax), s	19.5	* 55	19.3	34.4	19.6	54.8	24.4	29.4				
Max Q Clear Time (g_c+I1), s	17.6	45.0	9.1	12.3	7.4	8.6	19.4	20.4				
Green Ext Time (p_c), s	0.3	5.0	0.1	2.0	0.1	3.4	0.2	2.5				
Intersection Summary												
HCM 7th Control Delay, s/veh	56.5											
HCM 7th LOS	E											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment F-B - Existing LOS Calculations

HCM 7th Signalized Intersection Summary

6: Rock Blvd & Greg St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	204	236	16	41	469	195	40	630	35	102	280	177
Future Volume (veh/h)	204	236	16	41	469	195	40	630	35	102	280	177
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	0.99		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	224	259	13	45	515	149	44	692	26	112	308	97
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	274	1046	52	343	600	173	258	804	30	578	1729	768
Arrive On Green	0.11	0.31	0.31	0.03	0.22	0.22	0.03	0.23	0.23	0.58	0.98	0.98
Sat Flow, veh/h	1767	3417	171	1767	2692	775	1767	3464	130	1767	3526	1567
Grp Volume(v), veh/h	224	133	139	45	336	328	44	352	366	112	308	97
Grp Sat Flow(s),veh/h/ln	1767	1763	1825	1767	1763	1704	1767	1763	1831	1767	1763	1567
Q Serve(g_s), s	14.2	8.5	8.6	2.9	27.5	27.8	3.0	28.7	28.8	0.0	0.3	0.2
Cycle Q Clear(g_c), s	14.2	8.5	8.6	2.9	27.5	27.8	3.0	28.7	28.8	0.0	0.3	0.2
Prop In Lane	1.00		0.09	1.00		0.45	1.00		0.07	1.00		1.00
Lane Grp Cap(c), veh/h	274	540	559	343	393	380	258	409	425	578	1729	768
V/C Ratio(X)	0.82	0.25	0.25	0.13	0.86	0.86	0.17	0.86	0.86	0.19	0.18	0.13
Avail Cap(c_a), veh/h	425	581	601	581	522	504	437	409	425	578	1729	768
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.96	0.96	0.96
Uniform Delay (d), s/veh	40.4	39.1	39.1	43.2	56.0	56.1	48.2	55.3	55.3	22.2	0.7	0.7
Incr Delay (d2), s/veh	7.0	0.2	0.2	0.2	10.4	11.4	0.3	20.5	20.0	0.2	0.2	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.0	6.8	7.1	2.4	19.4	19.1	2.5	21.5	22.2	3.2	0.3	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	47.4	39.3	39.3	43.3	66.3	67.4	48.5	75.8	75.3	22.3	0.9	1.1
LnGrp LOS	D	D	D	D	E	E	D	E	E	C	A	A
Approach Vol, veh/h	496			709			762			517		
Approach Delay, s/veh	43.0			65.4			74.0			5.6		
Approach LOS	D			E			E			A		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	48.8	40.0	9.7	51.5	9.8	79.0	22.2	39.0				
Change Period (Y+Rc), s	5.4	5.2	5.5	5.6	5.5	* 5.4	5.5	5.6				
Max Green Setting (Gmax), s	19.6	34.8	24.5	49.4	19.5	* 35	29.5	44.4				
Max Q Clear Time (g_c+I2), s	12.0	30.8	4.9	10.6	5.0	2.3	16.2	29.8				
Green Ext Time (p_c), s	0.2	1.6	0.1	1.7	0.1	2.5	0.5	3.7				
Intersection Summary												
HCM 7th Control Delay, s/veh	51.1											
HCM 7th LOS	D											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Future Forecast Projections

Location -->	Rock Blvd	Rock Blvd	Rock Blvd	15th St	C St	C St	Rock Blvd	Rock Blvd	Rock Blvd	Glendale Ave	Glendale Ave	Rock Blvd	Greg St	Greg St
	South of McCarran	North of 15th	South of 15th	East of Rock	West of Rock	East of Rock	North of Glendale	South of Glendale	South of Glendale	East of Rock	East of Rock	South of Greg	West of Rock	East of Rock
2024 NDOT AADT	9800	14,300	13,000	1,500	2,800	1,500	27,000	21,000	21,000	15,200	12,200	11,100	13,100	11,900
Demand Model Volumes														
2025 RTC	8499	13,577	12,964	974	2,854	488	12,612	10,643	10,643	2,492	1,085	1,977	7,770	3,004
2050 RTC	11247	13,428	11,565	1,266	1,709	1,177	12,527	14,562	14,562	9,412	2,625	5,728	7,644	2,725
Model Difference 2050-2025	2,748	-149	-1,399	292	-1,145	689	-85	3,919	3,919	6,920	1,540	3,751	-126	-279
Growth Rates														
25 Years % Change	32%	-1%	-11%	30%	-40%	141%	-1%	37%	37%	278%	142%	190%	-2%	-9%
% per year	1.3%	0.0%	-0.4%	1.2%	-1.6%	5.6%	0.0%	1.5%	1.5%	11.1%	5.7%	7.6%	-0.1%	-0.4%
25 years growth factor	1.3	1.0	0.9	1.3	0.6	2.4	1.0	1.4	1.4	3.8	2.4	2.9	1.0	0.9
Growth Difference														
25 Years Increase	2,748	-149	-1,399	292	-1,145	689	-85	3,919	3,919	6,920	1,540	3,751	-126	-279
% Change	28%	-1%	-11%	19%	-41%	46%	0%	19%	19%	46%	13%	34%	-1%	-2%
% per year	1.1%	0.0%	-0.4%	0.8%	-1.6%	1.8%	0.0%	0.7%	0.7%	1.8%	0.5%	1.4%	0.0%	-0.1%
25 years growth factor	1.3	1.0	0.9	1.2	0.6	1.5	1.0	1.2	1.2	1.5	1.1	1.3	1.0	1.0

Attachment F-D - Future LOS Calculations

HCM 7th TWSC

1: Rock Blvd & 15th St

Intersection						
Int Delay, s/veh	3.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	10	180	200	30	290	540
Future Vol, veh/h	10	180	200	30	290	540
Conflicting Peds, #/hr	0	2	0	2	2	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	12	209	233	35	337	628
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	1240	138	0	0	269	0
Stage 1	252	-	-	-	-	-
Stage 2	988	-	-	-	-	-
Critical Hdwy	6.86	6.96	-	-	4.16	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.33	-	-	2.23	-
Pot Cap-1 Maneuver	166	882	-	-	1284	-
Stage 1	764	-	-	-	-	-
Stage 2	319	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	122	879	-	-	1281	-
Mov Cap-2 Maneuver	122	-	-	-	-	-
Stage 1	762	-	-	-	-	-
Stage 2	235	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s/v	11.8	0		3.08		
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	122	879	1281	-
HCM Lane V/C Ratio	-	-	0.095	0.238	0.263	-
HCM Control Delay (s/veh)	-	-	37.6	10.4	8.8	-
HCM Lane LOS	-	-	E	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0.9	1.1	-

Attachment F-D - Future LOS Calculations

HCM 7th Signalized Intersection Summary

2: Rock Blvd & C St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	0	10	45	1	20	5	315	15	20	910	5
Future Volume (veh/h)	5	0	10	45	1	20	5	315	15	20	910	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826
Adj Flow Rate, veh/h	5	0	10	47	1	15	5	332	8	21	958	4
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	5	5	5	5	5	5	5	5	5	5	5
Cap, veh/h	49	10	46	118	4	66	267	1794	799	613	1878	8
Arrive On Green	0.05	0.00	0.05	0.05	0.05	0.05	0.01	1.00	1.00	0.02	0.53	0.53
Sat Flow, veh/h	290	224	1028	1371	98	1465	1739	3469	1544	1739	3543	15
Grp Volume(v), veh/h	15	0	0	47	0	16	5	332	8	21	469	493
Grp Sat Flow(s),veh/h/ln	1543	0	0	1371	0	1562	1739	1735	1544	1739	1735	1823
Q Serve(g_s), s	0.0	0.0	0.0	3.0	0.0	1.3	0.2	0.0	0.0	0.8	23.5	23.5
Cycle Q Clear(g_c), s	1.2	0.0	0.0	4.2	0.0	1.3	0.2	0.0	0.0	0.8	23.5	23.5
Prop In Lane	0.33		0.67	1.00		0.94	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	105	0	0	118	0	70	267	1794	799	613	920	967
V/C Ratio(X)	0.14	0.00	0.00	0.40	0.00	0.23	0.02	0.19	0.01	0.03	0.51	0.51
Avail Cap(c_a), veh/h	478	0	0	464	0	464	386	1794	799	709	920	967
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.99	0.99	0.99	1.00	1.00	1.00
Uniform Delay (d), s/veh	62.1	0.0	0.0	63.5	0.0	62.2	17.0	0.0	0.0	14.6	20.4	20.4
Incr Delay (d2), s/veh	0.6	0.0	0.0	2.1	0.0	1.6	0.0	0.2	0.0	0.0	2.0	1.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.9	0.0	0.0	3.0	0.0	1.0	0.1	0.1	0.0	0.6	15.2	15.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	62.7	0.0	0.0	65.6	0.0	63.8	17.1	0.2	0.0	14.7	22.4	22.3
LnGrp LOS	E			E		E	B	A	A	B	C	C
Approach Vol, veh/h	15			63			345			983		
Approach Delay, s/veh	62.7			65.1			0.5			22.2		
Approach LOS	E			E			A			C		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.5	75.0		11.0	5.8	76.8		11.0				
Change Period (Y+Rc), s	4.8	5.2		4.9	4.9	5.2		4.9				
Max Green Setting (Gmax), s	10.2	69.8		40.1	10.1	69.8		40.1				
Max Q Clear Time (g_c+I1), s	2.8	2.0		3.2	2.2	25.5		6.2				
Green Ext Time (p_c), s	0.0	2.5		0.0	0.0	7.7		0.2				
Intersection Summary												
HCM 7th Control Delay, s/veh				19.2								
HCM 7th LOS				B								

Attachment F-D - Future LOS Calculations

HCM 7th Signalized Intersection Summary

3: Rock Blvd & Victorian Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	70	130	210	130	20	60	300	30	60	900	10
Future Volume (veh/h)	20	70	130	210	130	20	60	300	30	60	900	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	0.99		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811
Adj Flow Rate, veh/h	21	74	69	221	137	15	63	316	23	63	947	8
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	6	6	6	6	6	6	6	6	6	6	6	6
Cap, veh/h	249	427	359	297	378	41	570	2008	145	442	1678	14
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.06	0.20	0.20	0.07	0.96	0.96
Sat Flow, veh/h	1191	1811	1523	1199	1600	175	1725	3253	236	1725	3496	30
Grp Volume(v), veh/h	21	74	69	221	0	152	63	166	173	63	466	489
Grp Sat Flow(s),veh/h/ln	1191	1811	1523	1199	0	1775	1725	1721	1768	1725	1721	1805
Q Serve(g_s), s	2.0	4.4	4.9	24.3	0.0	9.7	0.0	10.7	10.8	2.8	3.2	3.2
Cycle Q Clear(g_c), s	11.7	4.4	4.9	28.7	0.0	9.7	0.0	10.7	10.8	2.8	3.2	3.2
Prop In Lane	1.00		1.00	1.00		0.10	1.00		0.13	1.00		0.02
Lane Grp Cap(c), veh/h	249	427	359	297	0	419	570	1062	1091	442	826	866
V/C Ratio(X)	0.08	0.17	0.19	0.74	0.00	0.36	0.11	0.16	0.16	0.14	0.56	0.56
Avail Cap(c_a), veh/h	322	538	452	371	0	527	570	1062	1091	575	826	866
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.98	0.98	0.98	0.95	0.95	0.95
Uniform Delay (d), s/veh	48.0	41.1	41.3	52.5	0.0	43.1	16.7	24.9	24.9	20.6	1.5	1.5
Incr Delay (d2), s/veh	0.1	0.2	0.3	6.1	0.0	0.5	0.1	0.3	0.3	0.1	2.6	2.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.1	3.6	3.4	12.4	0.0	7.8	2.0	8.7	9.0	2.0	2.2	2.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	48.1	41.3	41.5	58.6	0.0	43.6	16.8	25.2	25.2	20.7	4.1	4.0
LnGrp LOS	D	D	D	E		D	B	C	C	C	A	A
Approach Vol, veh/h	164			373			402			1018		
Approach Delay, s/veh	42.3			52.5			23.9			5.1		
Approach LOS	D			D			C			A		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.6	88.6		36.8	28.2	70.0		36.8				
Change Period (Y+Rc), s	5.1	* 5.3		4.9	5.3	5.2		4.9				
Max Green Setting (Gmax), s	14.9	* 65		40.1	14.7	64.8		40.1				
Max Q Clear Time (g_c+I), s	14.8	12.8		13.7	2.0	5.2		30.7				
Green Ext Time (p_c), s	0.1	2.2		0.7	0.1	7.8		1.2				
Intersection Summary												
HCM 7th Control Delay, s/veh	21.1											
HCM 7th LOS	C											
Notes												
User approved pedestrian interval to be less than phase max green.												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment F-D - Future LOS Calculations

HCM 7th Signalized Intersection Summary

4: Rock Blvd & Hymer Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↕	↕		↕	↕	
Traffic Volume (veh/h)	60	5	10	10	0	30	15	490	20	100	1470	100
Future Volume (veh/h)	60	5	10	10	0	30	15	490	20	100	1470	100
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767
Adj Flow Rate, veh/h	63	5	6	11	0	19	16	516	17	105	1547	56
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	9	9	9	9	9	9	9	9	9	9	9	9
Cap, veh/h	85	7	8	14	0	24	236	2407	79	670	2458	89
Arrive On Green	0.06	0.06	0.06	0.03	0.00	0.03	0.02	0.73	0.73	0.04	0.74	0.74
Sat Flow, veh/h	1421	113	135	566	0	977	1682	3316	109	1682	3301	119
Grp Volume(v), veh/h	74	0	0	30	0	0	16	261	272	105	784	819
Grp Sat Flow(s), veh/h/ln	1670	0	0	1543	0	0	1682	1678	1747	1682	1678	1742
Q Serve(g_s), s	5.9	0.0	0.0	2.6	0.0	0.0	0.3	6.8	6.8	2.1	30.2	30.6
Cycle Q Clear(g_c), s	5.9	0.0	0.0	2.6	0.0	0.0	0.3	6.8	6.8	2.1	30.2	30.6
Prop In Lane	0.85		0.08	0.37		0.63	1.00		0.06	1.00		0.07
Lane Grp Cap(c), veh/h	99	0	0	39	0	0	236	1218	1268	670	1250	1297
V/C Ratio(X)	0.74	0.00	0.00	0.78	0.00	0.00	0.07	0.21	0.21	0.16	0.63	0.63
Avail Cap(c_a), veh/h	241	0	0	166	0	0	400	1218	1268	739	1250	1297
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	0.95	0.95	0.95	0.84	0.84	0.84
Uniform Delay (d), s/veh	62.5	0.0	0.0	65.4	0.0	0.0	7.6	6.0	6.0	4.3	8.3	8.3
Incr Delay (d2), s/veh	10.5	0.0	0.0	27.6	0.0	0.0	0.1	0.4	0.4	0.1	2.0	2.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	5.0	0.0	0.0	2.4	0.0	0.0	0.2	4.4	4.5	1.2	15.4	16.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	72.9	0.0	0.0	93.0	0.0	0.0	7.7	6.4	6.4	4.4	10.3	10.3
LnGrp LOS	E			F			A	A	A	A	B	B
Approach Vol, veh/h	74			30			549			1708		
Approach Delay, s/veh	72.9			93.0			6.4			9.9		
Approach LOS	E			F			A			A		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.4			8.9	6.9	105.7		13.5				
Change Period (Y+Rc), s	4.5	5.2		5.5	4.6	5.2		5.5				
Max Green Setting (Gmax), s	10.5	69.8		14.5	15.4	64.8		19.5				
Max Q Clear Time (g_c+I), s	14.5	8.8		4.6	2.3	32.6		7.9				
Green Ext Time (p_c), s	0.1	3.7		0.0	0.0	16.0		0.2				
Intersection Summary												
HCM 7th Control Delay, s/veh	12.1											
HCM 7th LOS	B											

Attachment F-D - Future LOS Calculations

HCM 7th Signalized Intersection Summary

5: Rock Blvd & Glendale Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	100	360	280	120	300	90	100	350	90	220	980	200
Future Volume (veh/h)	100	360	280	120	300	90	100	350	90	220	980	200
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	106	383	226	128	319	22	106	372	56	234	1043	133
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	129	497	214	152	545	239	129	1171	518	297	1228	543
Arrive On Green	0.08	0.15	0.15	0.09	0.16	0.16	0.08	0.35	0.35	0.09	0.37	0.37
Sat Flow, veh/h	1668	3328	1436	1668	3328	1460	1668	3328	1472	3237	3328	1473
Grp Volume(v), veh/h	106	383	226	128	319	22	106	372	56	234	1043	133
Grp Sat Flow(s),veh/h/ln	1668	1664	1436	1668	1664	1460	1668	1664	1472	1618	1664	1473
Q Serve(g_s), s	8.5	14.9	12.8	10.2	12.0	1.7	8.5	11.0	3.5	9.6	38.9	4.3
Cycle Q Clear(g_c), s	8.5	14.9	12.8	10.2	12.0	1.7	8.5	11.0	3.5	9.6	38.9	4.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	129	497	214	152	545	239	129	1171	518	297	1228	543
V/C Ratio(X)	0.82	0.77	1.05	0.84	0.59	0.09	0.82	0.32	0.11	0.79	0.85	0.24
Avail Cap(c_a), veh/h	240	602	260	239	602	264	242	1171	518	1067	1228	543
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	0.67	0.67	0.67
Uniform Delay (d), s/veh	61.4	55.2	23.2	60.4	52.2	47.9	61.4	31.9	29.5	60.0	39.2	7.7
Incr Delay (d2), s/veh	12.3	5.0	70.0	14.6	1.2	0.2	11.7	0.7	0.4	3.2	5.2	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	7.3	10.8	13.6	8.6	8.8	1.2	7.2	8.0	2.3	6.8	22.1	5.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	73.7	60.2	93.1	75.0	53.4	48.1	73.1	32.6	29.9	63.2	44.3	8.4
LnGrp LOS	E	E	F	E	D	D	E	C	C	E	D	A
Approach Vol, veh/h	715			469			534			1410		
Approach Delay, s/veh	72.6			59.1			40.4			44.1		
Approach LOS	E			E			D			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	17.9	52.9	18.0	25.7	15.8	55.0	16.0	27.7				
Change Period (Y+Rc), s	5.5	* 5.4	5.7	5.6	5.4	5.2	5.6	5.6				
Max Green Setting (Gmax), s	41.5	* 25	19.3	24.4	19.6	49.8	19.4	24.4				
Max Q Clear Time (g_c+I1), s	11.6	13.0	12.2	16.9	10.5	40.9	10.5	14.0				
Green Ext Time (p_c), s	0.8	2.0	0.2	2.0	0.2	5.0	0.1	1.5				
Intersection Summary												
HCM 7th Control Delay, s/veh	52.2											
HCM 7th LOS	D											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment F-D - Future LOS Calculations

HCM 7th Signalized Intersection Summary

6: Rock Blvd & Greg St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	160	190	30	30	220	80	30	320	40	210	770	250
Future Volume (veh/h)	160	190	30	30	220	80	30	320	40	210	770	250
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767
Adj Flow Rate, veh/h	170	202	26	32	234	59	32	340	32	223	819	149
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	9	9	9	9	9	9	9	9	9	9	9	9
Cap, veh/h	253	570	72	220	303	75	238	1259	118	418	1392	621
Arrive On Green	0.10	0.19	0.19	0.03	0.11	0.11	0.03	0.41	0.41	0.07	0.83	0.83
Sat Flow, veh/h	1682	2995	381	1682	2666	658	1682	3102	290	1682	3357	1496
Grp Volume(v), veh/h	170	112	116	32	145	148	32	183	189	223	819	149
Grp Sat Flow(s),veh/h/ln	1682	1678	1697	1682	1678	1646	1682	1678	1714	1682	1678	1496
Q Serve(g_s), s	11.7	7.8	8.0	2.3	11.4	11.8	1.6	9.8	9.9	0.0	11.0	2.9
Cycle Q Clear(g_c), s	11.7	7.8	8.0	2.3	11.4	11.8	1.6	9.8	9.9	0.0	11.0	2.9
Prop In Lane	1.00		0.22	1.00		0.40	1.00		0.17	1.00		1.00
Lane Grp Cap(c), veh/h	253	319	323	220	191	187	238	681	696	418	1392	621
V/C Ratio(X)	0.67	0.35	0.36	0.15	0.76	0.79	0.13	0.27	0.27	0.53	0.59	0.24
Avail Cap(c_a), veh/h	323	319	323	420	303	298	376	681	696	538	1392	621
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.62	0.62	0.62
Uniform Delay (d), s/veh	45.2	47.4	47.5	51.0	58.1	58.3	27.1	26.7	26.8	34.9	7.7	7.0
Incr Delay (d2), s/veh	3.6	0.7	0.7	0.3	6.2	7.2	0.3	1.0	1.0	0.7	1.1	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.9	6.0	6.3	1.8	8.9	9.1	1.2	7.5	7.7	9.1	4.8	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	48.9	48.1	48.2	51.3	64.3	65.5	27.4	27.7	27.7	35.5	8.8	7.5
LnGrp LOS	D	D	D	D	E	E	C	C	C	D	A	A
Approach Vol, veh/h	398			325			404			1191		
Approach Delay, s/veh	48.4			63.5			27.7			13.6		
Approach LOS	D			E			C			B		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	60.4	60.0	9.0	31.3	9.0	61.4	19.4	20.9				
Change Period (Y+Rc), s	5.4	5.2	5.5	5.6	5.5	* 5.4	5.5	5.6				
Max Green Setting (Gmax), s	14.6	54.8	19.5	24.4	14.5	* 55	19.5	24.4				
Max Q Clear Time (g_c+I), s	12.0	11.9	4.3	10.0	3.6	13.0	13.7	13.8				
Green Ext Time (p_c), s	0.5	2.4	0.0	1.0	0.0	7.7	0.2	1.2				
Intersection Summary												
HCM 7th Control Delay, s/veh	29.1											
HCM 7th LOS	C											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment F-D - Future LOS Calculations

HCM 7th TWSC

1: Rock Blvd & 15th St

Intersection

Int Delay, s/veh 2.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	10	130	880	20	130	460
Future Vol, veh/h	10	130	880	20	130	460
Conflicting Peds, #/hr	0	0	0	7	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	98	98	98	98	98	98
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	133	898	20	133	469

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	1415	466	0
Stage 1	915	-	-
Stage 2	500	-	-
Critical Hdwy	6.84	6.94	-
Critical Hdwy Stg 1	5.84	-	-
Critical Hdwy Stg 2	5.84	-	-
Follow-up Hdwy	3.52	3.32	-
Pot Cap-1 Maneuver	128	543	-
Stage 1	351	-	-
Stage 2	575	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	104	539	-
Mov Cap-2 Maneuver	104	-	-
Stage 1	348	-	-
Stage 2	470	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v15.93		0	2.43
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBRWBLn1WBLn2	SBL	SBT
Capacity (veh/h)	-	- 104 539	729	-
HCM Lane V/C Ratio	-	- 0.098 0.246	0.182	-
HCM Control Delay (s/veh)	-	- 43.2 13.8	11	-
HCM Lane LOS	-	- E B	B	-
HCM 95th %tile Q(veh)	-	- 0.3 1	0.7	-

Attachment F-D - Future LOS Calculations

HCM 7th Signalized Intersection Summary

3: Rock Blvd & Victorian Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	160	100	240	210	40	130	810	80	30	540	40
Future Volume (veh/h)	60	160	100	240	210	40	130	810	80	30	540	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.99		0.98	0.99		0.97	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	61	163	51	245	214	29	133	827	58	31	551	29
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	227	237	196	329	348	47	412	1548	109	270	1470	77
Arrive On Green	0.04	0.13	0.13	0.13	0.22	0.22	0.06	0.46	0.46	0.02	0.43	0.43
Sat Flow, veh/h	1767	1856	1535	1767	1594	216	1767	3335	234	1767	3402	179
Grp Volume(v), veh/h	61	163	51	245	0	243	133	437	448	31	285	295
Grp Sat Flow(s),veh/h/ln	1767	1856	1535	1767	0	1809	1767	1763	1806	1767	1763	1818
Q Serve(g_s), s	4.5	12.6	4.5	17.6	0.0	18.2	6.1	26.5	26.5	1.5	16.4	16.5
Cycle Q Clear(g_c), s	4.5	12.6	4.5	17.6	0.0	18.2	6.1	26.5	26.5	1.5	16.4	16.5
Prop In Lane	1.00		1.00	1.00		0.12	1.00		0.13	1.00		0.10
Lane Grp Cap(c), veh/h	227	237	196	329	0	395	412	818	838	270	762	785
V/C Ratio(X)	0.27	0.69	0.26	0.74	0.00	0.62	0.32	0.53	0.53	0.11	0.37	0.38
Avail Cap(c_a), veh/h	421	372	308	339	0	395	487	818	838	461	762	785
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.61	0.61	0.61	0.99	0.99	0.99
Uniform Delay (d), s/veh	53.9	62.6	59.1	47.1	0.0	52.9	21.8	28.6	28.6	24.2	28.9	28.9
Incr Delay (d2), s/veh	0.6	3.6	0.7	8.4	0.0	2.8	0.3	1.5	1.5	0.2	1.4	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.7	10.3	3.2	13.4	0.0	13.5	4.7	16.0	16.3	1.1	11.8	12.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	54.5	66.1	59.8	55.4	0.0	55.8	22.1	30.2	30.1	24.4	30.3	30.2
LnGrp LOS	D	E	E	E		E	C	C	C	C	C	C
Approach Vol, veh/h	275			488			1018			611		
Approach Delay, s/veh	62.4			55.6			29.1			30.0		
Approach LOS	E			E			C			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	7.4	74.8	24.2	24.0	13.6	70.0	10.5	37.6				
Change Period (Y+Rc), s	5.1	5.2	4.5	4.9	5.3	5.2	4.5	4.9				
Max Green Setting (Gmax), s	19.9	59.8	20.5	30.1	14.7	64.8	22.5	28.1				
Max Q Clear Time (g_c+I), s	13.5	28.5	19.6	14.6	8.1	18.5	6.5	20.2				
Green Ext Time (p_c), s	0.0	6.6	0.1	0.9	0.2	4.0	0.1	0.8				
Intersection Summary												
HCM 7th Control Delay, s/veh	38.5											
HCM 7th LOS	D											

Attachment F-D - Future LOS Calculations

HCM 7th Signalized Intersection Summary

4: Rock Blvd & Hymer Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↙	↕		↙	↕	
Traffic Volume (veh/h)	200	5	15	30	5	220	5	1360	20	70	600	40
Future Volume (veh/h)	200	5	15	30	5	220	5	1360	20	70	600	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.97	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826
Adj Flow Rate, veh/h	204	5	12	31	5	162	5	1388	16	71	612	31
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	5	5	5	5	5	5	5	5	5	5	5	5
Cap, veh/h	230	6	14	24	4	124	415	1634	19	149	1651	84
Arrive On Green	0.14	0.14	0.14	0.10	0.10	0.10	0.01	0.47	0.47	0.07	0.98	0.98
Sat Flow, veh/h	1595	39	94	245	40	1280	1739	3511	40	1739	3359	170
Grp Volume(v), veh/h	221	0	0	198	0	0	5	685	719	71	316	327
Grp Sat Flow(s), veh/h/ln	1728	0	0	1564	0	0	1739	1735	1817	1739	1735	1794
Q Serve(g_s), s	18.8	0.0	0.0	14.5	0.0	0.0	0.2	52.4	52.5	3.2	0.7	0.7
Cycle Q Clear(g_c), s	18.8	0.0	0.0	14.5	0.0	0.0	0.2	52.4	52.5	3.2	0.7	0.7
Prop In Lane	0.92		0.05	0.16		0.82	1.00		0.02	1.00		0.09
Lane Grp Cap(c), veh/h	249	0	0	151	0	0	415	807	846	149	853	882
V/C Ratio(X)	0.89	0.00	0.00	1.31	0.00	0.00	0.01	0.85	0.85	0.48	0.37	0.37
Avail Cap(c_a), veh/h	340	0	0	151	0	0	583	807	846	271	853	882
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	0.68	0.68	0.68	0.90	0.90	0.90
Uniform Delay (d), s/veh	63.0	0.0	0.0	67.8	0.0	0.0	21.0	35.4	35.5	29.7	0.6	0.6
Incr Delay (d2), s/veh	18.9	0.0	0.0	178.5	0.0	0.0	0.0	7.7	7.4	2.1	1.1	1.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	14.7	0.0	0.0	21.2	0.0	0.0	0.2	30.2	31.5	2.4	0.8	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	81.9	0.0	0.0	246.3	0.0	0.0	21.0	43.1	42.9	31.8	1.8	1.7
LnGrp LOS	F			F			C	D	D	C	A	A
Approach Vol, veh/h	221			198			1409			714		
Approach Delay, s/veh	81.9			246.3			42.9			4.7		
Approach LOS	F			F			D			A		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.5	75.0		20.0	5.5	78.9		27.1				
Change Period (Y+Rc), s	4.5	5.2		5.5	4.6	5.2		5.5				
Max Green Setting (Gmax), s	15.5	69.8		14.5	15.4	69.8		29.5				
Max Q Clear Time (g_c+I), s	15.2	54.5		16.5	2.2	2.7		20.8				
Green Ext Time (p_c), s	0.1	8.7		0.0	0.0	4.6		0.8				
Intersection Summary												
HCM 7th Control Delay, s/veh	51.4											
HCM 7th LOS	D											

Attachment F-D - Future LOS Calculations

HCM 7th Signalized Intersection Summary

5: Rock Blvd & Glendale Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	180	350	240	90	600	270	140	940	60	80	390	150
Future Volume (veh/h)	180	350	240	90	600	270	140	940	60	80	390	150
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.97	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811
Adj Flow Rate, veh/h	194	376	193	97	645	78	151	1011	37	86	419	101
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	6	6	6	6	6	6	6	6	6	6	6	6
Cap, veh/h	217	917	403	117	720	311	168	1453	635	129	1257	549
Arrive On Green	0.13	0.27	0.27	0.07	0.21	0.21	0.03	0.14	0.14	0.04	0.37	0.37
Sat Flow, veh/h	1725	3441	1514	1725	3441	1486	1725	3441	1503	3346	3441	1502
Grp Volume(v), veh/h	194	376	193	97	645	78	151	1011	37	86	419	101
Grp Sat Flow(s),veh/h/ln	1725	1721	1514	1725	1721	1486	1725	1721	1503	1673	1721	1502
Q Serve(g_s), s	16.6	13.5	11.1	8.3	27.4	5.2	13.1	42.0	3.2	3.8	13.2	6.9
Cycle Q Clear(g_c), s	16.6	13.5	11.1	8.3	27.4	5.2	13.1	42.0	3.2	3.8	13.2	6.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	217	917	403	117	720	311	168	1453	635	129	1257	549
V/C Ratio(X)	0.89	0.41	0.48	0.83	0.90	0.25	0.90	0.70	0.06	0.67	0.33	0.18
Avail Cap(c_a), veh/h	281	1019	448	164	789	341	168	1453	635	323	1257	549
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.62	0.62	0.62	0.96	0.96	0.96
Uniform Delay (d), s/veh	64.6	45.3	22.0	69.0	57.7	30.6	71.9	55.4	38.7	71.2	34.4	32.4
Incr Delay (d2), s/veh	24.0	0.3	0.9	20.6	12.1	0.4	30.1	1.7	0.1	5.6	0.7	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	18.6	9.9	7.4	7.8	19.1	4.5	11.1	25.7	2.2	3.1	9.6	4.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	88.6	45.6	22.9	89.6	69.8	31.0	101.9	57.1	38.8	76.8	35.1	33.1
LnGrp LOS	F	D	C	F	E	C	F	E	D	E	D	C
Approach Vol, veh/h	763			820			1199			606		
Approach Delay, s/veh	50.8			68.5			62.2			40.7		
Approach LOS	D			E			E			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	11.3	68.7	15.9	45.6	20.0	60.0	24.5	37.0				
Change Period (Y+Rc), s	5.5	* 5.4	5.7	5.6	5.4	5.2	5.6	5.6				
Max Green Setting (Gmax), s	11.5	* 55	14.3	44.4	14.6	54.8	24.4	34.4				
Max Q Clear Time (g_c+I), s	15.8	44.0	10.3	15.5	15.1	15.2	18.6	29.4				
Green Ext Time (p_c), s	0.1	5.3	0.1	3.3	0.0	3.5	0.3	2.0				
Intersection Summary												
HCM 7th Control Delay, s/veh	57.3											
HCM 7th LOS	E											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment F-D - Future LOS Calculations

HCM 7th Signalized Intersection Summary

6: Rock Blvd & Greg St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	210	220	20	50	450	200	50	700	40	110	370	190
Future Volume (veh/h)	210	220	20	50	450	200	50	700	40	110	370	190
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	231	242	17	55	495	155	55	769	32	121	407	111
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	280	1004	70	352	579	180	246	800	33	559	1705	758
Arrive On Green	0.11	0.30	0.30	0.03	0.22	0.22	0.04	0.23	0.23	0.58	0.97	0.97
Sat Flow, veh/h	1767	3343	233	1767	2637	821	1767	3448	143	1767	3526	1567
Grp Volume(v), veh/h	231	127	132	55	330	320	55	393	408	121	407	111
Grp Sat Flow(s),veh/h/ln	1767	1763	1814	1767	1763	1695	1767	1763	1828	1767	1763	1567
Q Serve(g_s), s	14.7	8.1	8.2	3.6	26.9	27.3	3.8	33.1	33.1	0.3	0.7	0.4
Cycle Q Clear(g_c), s	14.7	8.1	8.2	3.6	26.9	27.3	3.8	33.1	33.1	0.3	0.7	0.4
Prop In Lane	1.00		0.13	1.00		0.48	1.00		0.08	1.00		1.00
Lane Grp Cap(c), veh/h	280	529	545	352	387	372	246	409	424	559	1705	758
V/C Ratio(X)	0.82	0.24	0.24	0.16	0.85	0.86	0.22	0.96	0.96	0.22	0.24	0.15
Avail Cap(c_a), veh/h	425	581	597	581	522	502	413	409	424	559	1705	758
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.92	0.92	0.92
Uniform Delay (d), s/veh	40.4	39.6	39.6	43.1	56.2	56.3	48.5	56.9	56.9	22.5	1.3	1.3
Incr Delay (d2), s/veh	7.8	0.2	0.2	0.2	9.9	11.0	0.5	35.8	35.1	0.2	0.3	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.4	6.5	6.8	2.9	19.0	18.7	3.1	25.9	26.6	3.5	0.6	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	48.2	39.8	39.8	43.3	66.1	67.4	49.0	92.7	92.0	22.7	1.6	1.6
LnGrp LOS	D	D	D	D	E	E	D	F	F	C	A	A
Approach Vol, veh/h	490			705			856			639		
Approach Delay, s/veh	43.8			64.9			89.6			5.6		
Approach LOS	D			E			F			A		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	48.7	40.0	10.6	50.6	10.8	78.0	22.7	38.5				
Change Period (Y+Rc), s	5.4	5.2	5.5	5.6	5.5	* 5.4	5.5	5.6				
Max Green Setting (Gmax), s	19.6	34.8	24.5	49.4	19.5	* 35	29.5	44.4				
Max Q Clear Time (g_c+I2), s	12.3	35.1	5.6	10.2	5.8	2.7	16.7	29.3				
Green Ext Time (p_c), s	0.3	0.0	0.1	1.6	0.1	3.3	0.5	3.6				
Intersection Summary												
HCM 7th Control Delay, s/veh	54.8											
HCM 7th LOS	D											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

APPENDIX G DATA

Alternatives Analysis

Attachment G-A - Improvement Options LOS Calculations

Attachment G-B - Road Diet LOS Calculations

Attachment G-C - Remove Southbound Lane LOS Calculations



HCM 7th Signalized Intersection Summary

5: Rock Blvd & Glendale Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	88	263	135	102	208	140	44	359	76	199	846	150
Future Volume (veh/h)	88	263	135	102	208	140	44	359	76	199	846	150
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	94	280	72	109	221	75	47	382	41	212	900	80
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	116	417	179	132	451	197	60	1058	468	274	1140	101
Arrive On Green	0.07	0.13	0.13	0.08	0.14	0.14	0.04	0.32	0.32	0.08	0.37	0.37
Sat Flow, veh/h	1668	3328	1430	1668	3328	1455	1668	3328	1471	3237	3089	275
Grp Volume(v), veh/h	94	280	72	109	221	75	47	382	41	212	485	495
Grp Sat Flow(s),veh/h/ln	1668	1664	1430	1668	1664	1455	1668	1664	1471	1618	1664	1700
Q Serve(g_s), s	7.5	10.8	3.8	8.7	8.3	6.3	3.8	11.9	2.6	8.7	35.0	35.0
Cycle Q Clear(g_c), s	7.5	10.8	3.8	8.7	8.3	6.3	3.8	11.9	2.6	8.7	35.0	35.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.16
Lane Grp Cap(c), veh/h	116	417	179	132	451	197	60	1058	468	274	614	627
V/C Ratio(X)	0.81	0.67	0.40	0.83	0.49	0.38	0.79	0.36	0.09	0.77	0.79	0.79
Avail Cap(c_a), veh/h	240	602	259	239	602	263	242	1058	468	1067	614	627
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.96	0.96	0.96	0.80	0.80	0.80
Uniform Delay (d), s/veh	62.0	56.4	19.9	61.3	54.0	53.2	64.6	35.5	32.3	60.5	37.9	37.9
Incr Delay (d2), s/veh	12.7	1.9	1.5	12.2	0.8	1.2	19.2	0.9	0.4	3.8	8.1	8.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	6.5	8.2	4.1	7.4	6.4	4.3	3.5	8.6	1.8	6.5	21.4	21.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	74.7	58.3	21.3	73.5	54.8	54.4	83.8	36.4	32.7	64.3	46.1	45.9
LnGrp LOS	E	E	C	E	D	D	F	D	C	E	D	D
Approach Vol, veh/h	446			405			470			1192		
Approach Delay, s/veh	55.8			59.8			40.8			49.2		
Approach LOS	E			E			D			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	16.9	48.3	16.4	22.5	10.2	55.0	15.0	23.9				
Change Period (Y+Rc), s	5.5	* 5.4	5.7	5.6	5.4	5.2	5.6	5.6				
Max Green Setting (Gmax), s	44.5	* 25	19.3	24.4	19.6	49.8	19.4	24.4				
Max Q Clear Time (g_c+I1), s	10.7	13.9	10.7	12.8	5.8	37.0	9.5	10.3				
Green Ext Time (p_c), s	0.8	1.9	0.2	1.5	0.1	5.3	0.1	1.4				
Intersection Summary												
HCM 7th Control Delay, s/veh	50.5											
HCM 7th LOS	D											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

5: Rock Blvd & Glendale Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	189	262	115	77	407	392	58	941	52	120	394	111
Future Volume (veh/h)	189	262	115	77	407	392	58	941	52	120	394	111
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.96	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811
Adj Flow Rate, veh/h	203	282	59	83	438	210	62	1012	28	129	424	59
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	6	6	6	6	6	6	6	6	6	6	6	6
Cap, veh/h	226	782	343	103	540	231	94	1257	548	175	1106	153
Arrive On Green	0.13	0.23	0.23	0.06	0.16	0.16	0.02	0.12	0.12	0.10	0.73	0.73
Sat Flow, veh/h	1725	3441	1511	1725	3441	1476	1725	3441	1501	3346	3027	418
Grp Volume(v), veh/h	203	282	59	83	438	210	62	1012	28	129	240	243
Grp Sat Flow(s),veh/h/ln	1725	1721	1511	1725	1721	1476	1725	1721	1501	1673	1721	1725
Q Serve(g_s), s	17.4	10.3	3.0	7.1	18.4	14.2	5.4	43.0	2.5	5.6	7.8	7.9
Cycle Q Clear(g_c), s	17.4	10.3	3.0	7.1	18.4	14.2	5.4	43.0	2.5	5.6	7.8	7.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.24
Lane Grp Cap(c), veh/h	226	782	343	103	540	231	94	1257	548	175	629	630
V/C Ratio(X)	0.90	0.36	0.17	0.81	0.81	0.91	0.66	0.81	0.05	0.74	0.38	0.39
Avail Cap(c_a), veh/h	281	789	346	222	674	289	225	1257	548	435	629	630
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.70	0.70	0.70	0.97	0.97	0.97
Uniform Delay (d), s/veh	64.2	48.8	19.3	69.7	61.1	28.4	72.3	60.8	43.0	66.1	13.9	13.9
Incr Delay (d2), s/veh	25.7	0.3	0.2	13.6	6.0	26.6	5.5	4.0	0.1	5.7	1.7	1.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	14.3	8.0	3.2	6.4	13.3	11.1	4.7	27.0	1.7	4.4	5.1	5.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	89.9	49.1	19.6	83.3	67.1	54.9	77.8	64.7	43.1	71.9	15.6	15.6
LnGrp LOS	F	D	B	F	E	D	E	E	D	E	B	B
Approach Vol, veh/h	544			731			1102			612		
Approach Delay, s/veh	61.1			65.5			64.9			27.5		
Approach LOS	E			E			E			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	13.3	60.2	14.7	39.7	13.5	60.0	25.2	29.1				
Change Period (Y+Rc), s	5.5	* 5.4	5.7	5.6	5.4	5.2	5.6	5.6				
Max Green Setting (Gmax), s	19.5	* 55	19.3	34.4	19.6	54.8	24.4	29.4				
Max Q Clear Time (g_c+l1), s	7.6	45.0	9.1	12.3	7.4	9.9	19.4	20.4				
Green Ext Time (p_c), s	0.3	5.0	0.1	2.0	0.1	3.3	0.2	2.5				
Intersection Summary												
HCM 7th Control Delay, s/veh	56.7											
HCM 7th LOS	E											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

5: Rock Blvd & Glendale Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	100	360	280	120	300	90	100	350	90	220	980	200
Future Volume (veh/h)	100	360	280	120	300	90	100	350	90	220	980	200
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	106	383	226	128	319	22	106	372	56	234	1043	133
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	129	497	214	152	545	239	129	1171	518	297	1094	139
Arrive On Green	0.08	0.15	0.15	0.09	0.16	0.16	0.08	0.35	0.35	0.09	0.37	0.37
Sat Flow, veh/h	1668	3328	1436	1668	3328	1460	1668	3328	1472	3237	2966	378
Grp Volume(v), veh/h	106	383	226	128	319	22	106	372	56	234	585	591
Grp Sat Flow(s),veh/h/ln	1668	1664	1436	1668	1664	1460	1668	1664	1472	1618	1664	1680
Q Serve(g_s), s	8.5	14.9	12.8	10.2	12.0	1.7	8.5	11.0	3.5	9.6	46.1	46.3
Cycle Q Clear(g_c), s	8.5	14.9	12.8	10.2	12.0	1.7	8.5	11.0	3.5	9.6	46.1	46.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.22
Lane Grp Cap(c), veh/h	129	497	214	152	545	239	129	1171	518	297	614	620
V/C Ratio(X)	0.82	0.77	1.05	0.84	0.59	0.09	0.82	0.32	0.11	0.79	0.95	0.95
Avail Cap(c_a), veh/h	240	602	260	239	602	264	242	1171	518	1067	614	620
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	0.74	0.74	0.74
Uniform Delay (d), s/veh	61.4	55.2	23.2	60.4	52.2	47.9	61.4	31.9	29.5	60.0	41.4	41.5
Incr Delay (d2), s/veh	12.3	5.0	70.0	14.6	1.2	0.2	11.7	0.7	0.4	3.5	21.6	21.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	7.3	10.8	13.6	8.6	8.8	1.2	7.2	8.0	2.3	6.9	29.1	29.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	73.7	60.2	93.1	75.0	53.4	48.1	73.1	32.6	29.9	63.5	63.1	63.2
LnGrp LOS	E	E	F	E	D	D	E	C	C	E	E	E
Approach Vol, veh/h	715			469			534			1410		
Approach Delay, s/veh	72.6			59.1			40.4			63.2		
Approach LOS	E			E			D			E		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	17.9	52.9	18.0	25.7	15.8	55.0	16.0	27.7				
Change Period (Y+Rc), s	5.5	* 5.4	5.7	5.6	5.4	5.2	5.6	5.6				
Max Green Setting (Gmax), s	44.5	* 25	19.3	24.4	19.6	49.8	19.4	24.4				
Max Q Clear Time (g_c+I1), s	11.6	13.0	12.2	16.9	10.5	48.3	10.5	14.0				
Green Ext Time (p_c), s	0.8	2.0	0.2	2.0	0.2	1.1	0.1	1.5				
Intersection Summary												
HCM 7th Control Delay, s/veh	60.8											
HCM 7th LOS	E											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

5: Rock Blvd & Glendale Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		 			 			 		 	 	
Traffic Volume (veh/h)	180	350	240	90	600	270	140	940	60	80	390	150
Future Volume (veh/h)	180	350	240	90	600	270	140	940	60	80	390	150
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.97	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811
Adj Flow Rate, veh/h	194	376	193	97	645	78	151	1011	37	86	419	101
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	6	6	6	6	6	6	6	6	6	6	6	6
Cap, veh/h	217	917	403	117	720	311	168	1453	635	129	1002	239
Arrive On Green	0.13	0.27	0.27	0.07	0.21	0.21	0.03	0.14	0.14	0.04	0.37	0.37
Sat Flow, veh/h	1725	3441	1514	1725	3441	1486	1725	3441	1503	3346	2742	654
Grp Volume(v), veh/h	194	376	193	97	645	78	151	1011	37	86	261	259
Grp Sat Flow(s),veh/h/ln	1725	1721	1514	1725	1721	1486	1725	1721	1503	1673	1721	1676
Q Serve(g_s), s	16.6	13.5	11.1	8.3	27.4	5.2	13.1	42.0	3.2	3.8	17.0	17.4
Cycle Q Clear(g_c), s	16.6	13.5	11.1	8.3	27.4	5.2	13.1	42.0	3.2	3.8	17.0	17.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.39
Lane Grp Cap(c), veh/h	217	917	403	117	720	311	168	1453	635	129	629	612
V/C Ratio(X)	0.89	0.41	0.48	0.83	0.90	0.25	0.90	0.70	0.06	0.67	0.42	0.42
Avail Cap(c_a), veh/h	281	1019	448	164	789	341	168	1453	635	323	629	612
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.62	0.62	0.62	0.97	0.97	0.97
Uniform Delay (d), s/veh	64.6	45.3	22.0	69.0	57.7	30.6	71.9	55.4	38.7	71.2	35.6	35.7
Incr Delay (d2), s/veh	24.0	0.3	0.9	20.6	12.1	0.4	30.1	1.7	0.1	5.7	2.0	2.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	13.6	9.9	7.4	7.8	19.1	4.5	11.1	25.7	2.2	3.1	12.0	12.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	88.6	45.6	22.9	89.6	69.8	31.0	101.9	57.1	38.8	76.9	37.6	37.8
LnGrp LOS	F	D	C	F	E	C	F	E	D	E	D	D
Approach Vol, veh/h	763			820			1199			606		
Approach Delay, s/veh	50.8			68.5			62.2			43.2		
Approach LOS	D			E			E			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	11.3	68.7	15.9	45.6	20.0	60.0	24.5	37.0				
Change Period (Y+Rc), s	5.5	* 5.4	5.7	5.6	5.4	5.2	5.6	5.6				
Max Green Setting (Gmax), s	14.5	* 55	14.3	44.4	14.6	54.8	24.4	34.4				
Max Q Clear Time (g_c+l1), s	5.8	44.0	10.3	15.5	15.1	19.4	18.6	29.4				
Green Ext Time (p_c), s	0.1	5.3	0.1	3.3	0.0	3.5	0.3	2.0				
Intersection Summary												
HCM 7th Control Delay, s/veh	57.8											
HCM 7th LOS	E											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

4: Rock Blvd & Hymer Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	6	17	6	3	39	10	552	14	66	1239	156
Future Volume (veh/h)	51	6	17	6	3	39	10	552	14	66	1239	156
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767
Adj Flow Rate, veh/h	54	6	13	6	3	28	11	581	11	69	1304	115
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	9	9	9	9	9	9	9	9	9	9	9	9
Cap, veh/h	129	21	46	110	5	43	282	2497	47	642	2371	208
Arrive On Green	0.05	0.04	0.04	0.03	0.03	0.03	0.01	0.74	0.74	0.03	0.76	0.76
Sat Flow, veh/h	1682	492	1065	1682	145	1351	1682	3369	64	1682	3114	274
Grp Volume(v), veh/h	54	0	19	6	0	31	11	289	303	69	701	718
Grp Sat Flow(s),veh/h/ln	1682	0	1557	1682	0	1496	1682	1678	1755	1682	1678	1710
Q Serve(g_s), s	0.0	0.0	1.7	0.5	0.0	2.9	0.2	7.5	7.6	1.3	23.9	24.2
Cycle Q Clear(g_c), s	0.0	0.0	1.7	0.5	0.0	2.9	0.2	7.5	7.6	1.3	23.9	24.2
Prop In Lane	1.00		0.68	1.00		0.90	1.00		0.04	1.00		0.16
Lane Grp Cap(c), veh/h	129	0	67	110	0	47	282	1244	1301	642	1278	1302
V/C Ratio(X)	0.42	0.00	0.28	0.05	0.00	0.65	0.04	0.23	0.23	0.11	0.55	0.55
Avail Cap(c_a), veh/h	286	0	272	226	0	208	447	1244	1301	713	1278	1302
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.95	0.95	0.95	0.93	0.93	0.93
Uniform Delay (d), s/veh	63.7	0.0	64.9	65.4	0.0	67.0	6.0	5.7	5.7	3.9	6.8	6.9
Incr Delay (d2), s/veh	2.2	0.0	2.3	0.2	0.0	14.2	0.1	0.4	0.4	0.1	1.6	1.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	3.5	0.0	1.3	0.4	0.0	2.3	0.1	4.8	5.0	0.8	12.8	13.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	65.9	0.0	67.2	65.6	0.0	81.3	6.0	6.1	6.1	4.0	8.4	8.5
LnGrp LOS	E		E	E		F	A	A	A	A	A	A
Approach Vol, veh/h	73			37			603			1488		
Approach Delay, s/veh	66.2			78.7			6.1			8.2		
Approach LOS	E			E			A			A		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	9.2	109.0	11.9	9.9	6.3	111.8	10.4	11.5				
Change Period (Y+Rc), s	4.5	5.2	5.5	5.5	4.6	5.2	5.5	5.5				
Max Green Setting (Gmax), s	10.5	69.8	19.5	19.5	15.4	64.8	14.5	24.5				
Max Q Clear Time (g_c+I1), s	3.3	9.6	2.0	4.9	2.2	26.2	2.5	3.7				
Green Ext Time (p_c), s	0.1	4.2	0.1	0.1	0.0	14.2	0.0	0.0				
Intersection Summary												
HCM 7th Control Delay, s/veh	10.7											
HCM 7th LOS	B											

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

4: Rock Blvd & Hymer Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	236	7	10	21	1	175	3	1497	14	64	567	45
Future Volume (veh/h)	236	7	10	21	1	175	3	1497	14	64	567	45
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.99		0.99	0.99		0.99	1.00		0.97	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826
Adj Flow Rate, veh/h	241	7	7	21	1	125	3	1528	10	65	579	32
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	5	5	5	5	5	5	5	5	5	5	5	5
Cap, veh/h	304	166	166	234	1	144	422	1644	11	121	1643	91
Arrive On Green	0.14	0.20	0.20	0.03	0.09	0.09	0.00	0.47	0.47	0.06	0.98	0.98
Sat Flow, veh/h	1739	835	835	1739	12	1518	1739	3532	23	1739	3341	184
Grp Volume(v), veh/h	241	0	14	21	0	126	3	750	788	65	300	311
Grp Sat Flow(s),veh/h/ln	1739	0	1670	1739	0	1530	1739	1735	1821	1739	1735	1791
Q Serve(g_s), s	18.2	0.0	1.0	1.6	0.0	12.2	0.1	61.1	61.2	2.9	0.6	0.6
Cycle Q Clear(g_c), s	18.2	0.0	1.0	1.6	0.0	12.2	0.1	61.1	61.2	2.9	0.6	0.6
Prop In Lane	1.00		0.50	1.00		0.99	1.00		0.01	1.00		0.10
Lane Grp Cap(c), veh/h	304	0	332	234	0	145	422	807	847	121	853	881
V/C Ratio(X)	0.79	0.00	0.04	0.09	0.00	0.87	0.01	0.93	0.93	0.54	0.35	0.35
Avail Cap(c_a), veh/h	406	0	332	344	0	148	594	807	847	247	853	881
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.63	0.63	0.63	0.97	0.97	0.97
Uniform Delay (d), s/veh	50.3	0.0	48.5	57.7	0.0	67.0	21.2	37.8	37.8	33.5	0.6	0.6
Incr Delay (d2), s/veh	7.6	0.0	0.1	0.2	0.0	38.6	0.0	13.1	12.7	3.6	1.1	1.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	13.4	0.0	0.8	1.3	0.0	10.5	0.1	35.5	37.0	2.3	0.8	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	57.9	0.0	48.6	57.9	0.0	105.6	21.2	50.8	50.5	37.1	1.7	1.7
LnGrp LOS	E		D	E		F	C	D	D	D	A	A
Approach Vol, veh/h	255			147			1541			676		
Approach Delay, s/veh	57.4			98.8			50.6			5.1		
Approach LOS	E			F			D			A		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	9.2	75.0	26.2	19.7	5.2	79.0	10.5	35.4				
Change Period (Y+Rc), s	4.5	5.2	5.5	5.5	4.6	5.2	5.5	5.5				
Max Green Setting (Gmax), s	15.5	69.8	29.5	14.5	15.4	69.8	14.5	29.5				
Max Q Clear Time (g_c+l1), s	4.9	63.2	20.2	14.2	2.1	2.6	3.6	3.0				
Green Ext Time (p_c), s	0.1	4.9	0.5	0.0	0.0	4.3	0.0	0.0				
Intersection Summary												
HCM 7th Control Delay, s/veh	42.2											
HCM 7th LOS	D											

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

4: Rock Blvd & Hymer Ave

04/06/2026

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	5	10	10	0	30	15	490	20	100	1470	100
Future Volume (veh/h)	60	5	10	10	0	30	15	490	20	100	1470	100
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767
Adj Flow Rate, veh/h	63	5	6	11	0	19	16	516	17	105	1547	56
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	9	9	9	9	9	9	9	9	9	9	9	9
Cap, veh/h	139	32	38	114	0	43	239	2422	80	674	2474	89
Arrive On Green	0.05	0.04	0.04	0.04	0.00	0.03	0.02	0.73	0.73	0.04	0.75	0.75
Sat Flow, veh/h	1682	725	870	1682	0	1473	1682	3316	109	1682	3301	119
Grp Volume(v), veh/h	63	0	11	11	0	19	16	261	272	105	784	819
Grp Sat Flow(s),veh/h/ln	1682	0	1596	1682	0	1473	1682	1678	1747	1682	1678	1742
Q Serve(g_s), s	0.5	0.0	0.9	0.9	0.0	1.7	0.3	6.7	6.7	2.1	29.7	30.0
Cycle Q Clear(g_c), s	0.5	0.0	0.9	0.9	0.0	1.7	0.3	6.7	6.7	2.1	29.7	30.0
Prop In Lane	1.00		0.55	1.00		1.00	1.00		0.06	1.00		0.07
Lane Grp Cap(c), veh/h	139	0	70	114	0	43	239	1226	1276	674	1258	1305
V/C Ratio(X)	0.45	0.00	0.16	0.10	0.00	0.44	0.07	0.21	0.21	0.16	0.62	0.63
Avail Cap(c_a), veh/h	234	0	230	234	0	213	403	1226	1276	744	1258	1305
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.95	0.95	0.95	0.84	0.84	0.84
Uniform Delay (d), s/veh	60.9	0.0	62.1	63.1	0.0	64.5	7.3	5.8	5.8	4.1	8.0	8.0
Incr Delay (d2), s/veh	2.3	0.0	1.0	0.4	0.0	7.0	0.1	0.4	0.4	0.1	2.0	1.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	3.9	0.0	0.7	0.7	0.0	1.3	0.2	4.2	4.4	1.2	15.1	15.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	63.2	0.0	63.2	63.4	0.0	71.5	7.4	6.2	6.2	4.2	9.9	9.9
LnGrp LOS	E		E	E		E	A	A	A	A	A	A
Approach Vol, veh/h	74					30		549		1708		
Approach Delay, s/veh	63.2					68.5		6.2		9.6		
Approach LOS	E					E		A		A		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	9.4	103.8	12.3	9.4	6.9	106.4	10.3	11.4				
Change Period (Y+Rc), s	4.5	5.2	5.5	5.5	4.6	5.2	5.5	5.5				
Max Green Setting (Gmax), s	10.5	69.8	14.5	19.5	15.4	64.8	14.5	19.5				
Max Q Clear Time (g_c+I1), s	4.1	8.7	2.5	3.7	2.3	32.0	2.9	2.9				
Green Ext Time (p_c), s	0.1	3.7	0.1	0.0	0.0	16.1	0.0	0.0				
Intersection Summary												
HCM 7th Control Delay, s/veh			11.2									
HCM 7th LOS			B									

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

4: Rock Blvd & Hymer Ave

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	200	5	15	30	5	220	5	1360	20	70	600	40
Future Volume (veh/h)	200	5	15	30	5	220	5	1360	20	70	600	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	0.99		0.99	1.00		0.97	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826
Adj Flow Rate, veh/h	204	5	12	31	5	162	5	1388	16	71	612	31
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	5	5	5	5	5	5	5	5	5	5	5	5
Cap, veh/h	254	86	207	236	4	144	415	1634	19	149	1651	84
Arrive On Green	0.12	0.18	0.18	0.03	0.10	0.10	0.01	0.47	0.47	0.07	0.98	0.98
Sat Flow, veh/h	1739	474	1138	1739	46	1490	1739	3511	40	1739	3359	170
Grp Volume(v), veh/h	204	0	17	31	0	167	5	685	719	71	316	327
Grp Sat Flow(s),veh/h/ln	1739	0	1612	1739	0	1536	1739	1735	1817	1739	1735	1794
Q Serve(g_s), s	15.4	0.0	1.3	2.4	0.0	14.5	0.2	52.4	52.5	3.2	0.7	0.7
Cycle Q Clear(g_c), s	15.4	0.0	1.3	2.4	0.0	14.5	0.2	52.4	52.5	3.2	0.7	0.7
Prop In Lane	1.00		0.71	1.00		0.97	1.00		0.02	1.00		0.09
Lane Grp Cap(c), veh/h	254	0	294	236	0	148	415	807	846	149	853	882
V/C Ratio(X)	0.80	0.00	0.06	0.13	0.00	1.12	0.01	0.85	0.85	0.48	0.37	0.37
Avail Cap(c_a), veh/h	390	0	317	346	0	148	583	807	846	271	853	882
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.68	0.68	0.68	0.90	0.90	0.90
Uniform Delay (d), s/veh	51.4	0.0	50.7	57.8	0.0	67.8	21.0	35.4	35.5	29.7	0.6	0.6
Incr Delay (d2), s/veh	6.7	0.0	0.1	0.2	0.0	111.4	0.0	7.7	7.4	2.1	1.1	1.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	11.6	0.0	1.0	1.9	0.0	16.3	0.2	30.2	31.5	2.4	0.8	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	58.2	0.0	50.8	58.0	0.0	179.1	21.0	43.1	42.9	31.8	1.8	1.7
LnGrp LOS	E		D	E		F	C	D	D	C	A	A
Approach Vol, veh/h	221			198			1409			714		
Approach Delay, s/veh	57.6			160.2			42.9			4.7		
Approach LOS	E			F			D			A		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	9.5	75.0	23.3	20.0	5.5	78.9	10.5	32.8				
Change Period (Y+Rc), s	4.5	5.2	5.5	5.5	4.6	5.2	5.5	5.5				
Max Green Setting (Gmax), s	15.5	69.8	29.5	14.5	15.4	69.8	14.5	29.5				
Max Q Clear Time (g_c+I1), s	5.2	54.5	17.4	16.5	2.2	2.7	4.4	3.3				
Green Ext Time (p_c), s	0.1	8.7	0.4	0.0	0.0	4.6	0.0	0.0				
Intersection Summary												
HCM 7th Control Delay, s/veh	42.6											
HCM 7th LOS	D											

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

20: Rock Blvd & WB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	299	0	52	214	404	0	0	774	223
Future Volume (veh/h)	0	0	0	299	0	52	214	404	0	0	774	223
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Lane Width Adj.				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach				No			No				No	
Adj Sat Flow, veh/h/ln				1811	1811	1811	1811	1811	0	0	1811	1811
Adj Flow Rate, veh/h				315	0	28	225	425	0	0	815	164
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				6	6	6	6	6	0	0	6	6
Cap, veh/h				348	0	310	419	2453	0	0	1735	349
Arrive On Green				0.20	0.00	0.20	0.07	0.71	0.00	0.00	0.61	0.61
Sat Flow, veh/h				1725	0	1535	1725	3532	0	0	2944	574
Grp Volume(v), veh/h				315	0	28	225	425	0	0	491	488
Grp Sat Flow(s),veh/h/ln				1725	0	1535	1725	1721	0	0	1721	1708
Q Serve(g_s), s				24.1	0.0	2.0	6.3	5.5	0.0	0.0	21.2	21.2
Cycle Q Clear(g_c), s				24.1	0.0	2.0	6.3	5.5	0.0	0.0	21.2	21.2
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.34
Lane Grp Cap(c), veh/h				348	0	310	419	2453	0	0	1046	1038
V/C Ratio(X)				0.90	0.00	0.09	0.54	0.17	0.00	0.00	0.47	0.47
Avail Cap(c_a), veh/h				431	0	383	941	2453	0	0	1046	1038
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.97	0.97	0.00	0.00	0.93	0.93
Uniform Delay (d), s/veh				52.6	0.0	43.8	10.8	6.3	0.0	0.0	14.5	14.5
Incr Delay (d2), s/veh				19.5	0.0	0.1	1.0	0.1	0.0	0.0	1.4	1.4
Initial Q Delay(d3), s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln				18.1	0.0	1.4	4.3	3.5	0.0	0.0	13.2	13.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				72.1	0.0	43.9	11.9	6.5	0.0	0.0	15.9	15.9
LnGrp LOS				E		D	B	A			B	B
Approach Vol, veh/h					343			650			979	
Approach Delay, s/veh					69.8			8.4			15.9	
Approach LOS					E			A			B	
Timer - Assigned Phs	2			5		6	8					
Phs Duration (G+Y+Rc), s	101.4			14.2		87.3	33.6					
Change Period (Y+Rc), s	5.2			5.2		5.2	6.3					
Max Green Setting (Gmax), s	89.8			49.8		34.8	33.7					
Max Q Clear Time (g_c+I1), s	7.5			8.3		23.2	26.1					
Green Ext Time (p_c), s	3.2			0.7		5.0	1.2					
Intersection Summary												
HCM 7th Control Delay, s/veh				22.8								
HCM 7th LOS				C								

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

25: Rock Blvd & EB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations								 			 	
Traffic Volume (veh/h)	139	0	473	0	0	0	0	480	104	55	1019	0
Future Volume (veh/h)	139	0	473	0	0	0	0	480	104	55	1019	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No						No				No	
Adj Sat Flow, veh/h/ln	1811	1811	1811				0	1811	1811	1811	1811	0
Adj Flow Rate, veh/h	146	0	250				0	505	54	58	1073	0
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	6	6	6				0	6	6	6	6	0
Cap, veh/h	311	0	277				0	2176	971	631	2416	0
Arrive On Green	0.18	0.00	0.18				0.00	1.00	1.00	0.03	0.70	0.00
Sat Flow, veh/h	1725	0	1535				0	3532	1535	1725	3532	0
Grp Volume(v), veh/h	146	0	250				0	505	54	58	1073	0
Grp Sat Flow(s),veh/h/ln	1725	0	1535				0	1721	1535	1725	1721	0
Q Serve(g_s), s	10.2	0.0	21.5				0.0	0.0	0.0	1.5	18.2	0.0
Cycle Q Clear(g_c), s	10.2	0.0	21.5				0.0	0.0	0.0	1.5	18.2	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	311	0	277				0	2176	971	631	2416	0
V/C Ratio(X)	0.47	0.00	0.90				0.00	0.23	0.06	0.09	0.44	0.00
Avail Cap(c_a), veh/h	354	0	315				0	2176	971	1085	2416	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.97	0.97	0.79	0.79	0.00
Uniform Delay (d), s/veh	49.6	0.0	54.2				0.0	0.0	0.0	7.2	8.7	0.0
Incr Delay (d2), s/veh	1.1	0.0	25.9				0.0	0.2	0.1	0.0	0.5	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.0	0.0	15.6				0.0	0.1	0.1	1.0	10.4	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	50.7	0.0	80.1				0.0	0.2	0.1	7.2	9.2	0.0
LnGrp LOS	D		F					A	A	A	A	
Approach Vol, veh/h	396						559			1131		
Approach Delay, s/veh	69.2						0.2			9.1		
Approach LOS	E						A			A		
Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	9.4	90.6		31.6		100.0						
Change Period (Y+Rc), s	5.0	5.2		7.3		5.2						
Max Green Setting (Gmax), s	40.0	49.8		27.7		94.8						
Max Q Clear Time (g_c+I1), s	3.5	2.0		23.5		20.2						
Green Ext Time (p_c), s	0.1	4.1		0.8		10.8						
Intersection Summary												
HCM 7th Control Delay, s/veh				18.1								
HCM 7th LOS				B								

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

20: Rock Blvd & WB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	120	0	137	558	1288	0	0	401	298
Future Volume (veh/h)	0	0	0	120	0	137	558	1288	0	0	401	298
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Lane Width Adj.				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach				No			No				No	
Adj Sat Flow, veh/h/ln				1870	1870	1870	1870	1870	0	0	1870	1870
Adj Flow Rate, veh/h				130	0	72	607	1400	0	0	436	227
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				2	2	2	2	2	0	0	2	2
Cap, veh/h				161	0	143	723	2961	0	0	1393	719
Arrive On Green				0.09	0.00	0.09	0.37	1.00	0.00	0.00	0.20	0.20
Sat Flow, veh/h				1781	0	1585	1781	3647	0	0	2360	1170
Grp Volume(v), veh/h				130	0	72	607	1400	0	0	341	322
Grp Sat Flow(s),veh/h/ln				1781	0	1585	1781	1777	0	0	1777	1660
Q Serve(g_s), s				10.7	0.0	6.5	23.4	0.0	0.0	0.0	24.5	24.8
Cycle Q Clear(g_c), s				10.7	0.0	6.5	23.4	0.0	0.0	0.0	24.5	24.8
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.70
Lane Grp Cap(c), veh/h				161	0	143	723	2961	0	0	1092	1020
V/C Ratio(X)				0.81	0.00	0.50	0.84	0.47	0.00	0.00	0.31	0.32
Avail Cap(c_a), veh/h				341	0	303	1224	2961	0	0	1092	1020
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	0.33	0.33
Upstream Filter(I)				1.00	0.00	1.00	0.44	0.44	0.00	0.00	0.97	0.97
Uniform Delay (d), s/veh				67.0	0.0	65.0	8.5	0.0	0.0	0.0	32.8	32.9
Incr Delay (d2), s/veh				9.2	0.0	2.7	1.2	0.2	0.0	0.0	0.7	0.8
Initial Q Delay(d3), s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln				9.1	0.0	5.0	8.3	0.2	0.0	0.0	17.6	16.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				76.2	0.0	67.8	9.7	0.2	0.0	0.0	33.5	33.7
LnGrp LOS				E		E	A	A			C	C
Approach Vol, veh/h					202			2007			663	
Approach Delay, s/veh					73.2			3.1			33.6	
Approach LOS					E			A			C	
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		130.2			32.8	97.4		19.8				
Change Period (Y+Rc), s		5.2			5.2	5.2		6.3				
Max Green Setting (Gmax), s		109.8			69.8	34.8		28.7				
Max Q Clear Time (g_c+I1), s		2.0			25.4	26.8		12.7				
Green Ext Time (p_c), s		17.6			2.2	2.6		0.8				
Intersection Summary												
HCM 7th Control Delay, s/veh				15.1								
HCM 7th LOS				B								

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

25: Rock Blvd & EB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations								 	 		 	
Traffic Volume (veh/h)	187	0	229	0	0	0	0	1660	279	67	453	0
Future Volume (veh/h)	187	0	229	0	0	0	0	1660	279	67	453	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No						No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870				0	1870	1870	1870	1870	0
Adj Flow Rate, veh/h	203	0	124				0	1804	212	73	492	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2				0	2	2	2	2	0
Cap, veh/h	229	0	204				0	2127	949	275	2800	0
Arrive On Green	0.13	0.00	0.13				0.00	0.60	0.60	0.15	0.79	0.00
Sat Flow, veh/h	1781	0	1585				0	3647	1585	1781	3647	0
Grp Volume(v), veh/h	203	0	124				0	1804	212	73	492	0
Grp Sat Flow(s),veh/h/ln	1781	0	1585				0	1777	1585	1781	1777	0
Q Serve(g_s), s	16.8	0.0	11.1				0.0	62.1	9.3	5.4	5.1	0.0
Cycle Q Clear(g_c), s	16.8	0.0	11.1				0.0	62.1	9.3	5.4	5.1	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	229	0	204				0	2127	949	275	2800	0
V/C Ratio(X)	0.89	0.00	0.61				0.00	0.85	0.22	0.27	0.18	0.00
Avail Cap(c_a), veh/h	270	0	240				0	2127	949	275	2800	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.56	0.56	0.86	0.86	0.00
Uniform Delay (d), s/veh	64.3	0.0	61.8				0.0	24.5	13.9	55.9	3.9	0.0
Incr Delay (d2), s/veh	25.0	0.0	3.3				0.0	2.5	0.3	0.4	0.1	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	14.2	0.0	8.2				0.0	32.4	5.7	4.5	3.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	89.3	0.0	65.0				0.0	27.1	14.3	56.3	4.0	0.0
LnGrp LOS	F		E					C	B	E	A	
Approach Vol, veh/h	327						2016			565		
Approach Delay, s/veh	80.1						25.7			10.8		
Approach LOS	F						C			B		
Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	28.4	95.0		26.6		123.4						
Change Period (Y+Rc), s	5.2	* 5.2		7.3		5.2						
Max Green Setting (Gmax), s	20.0	* 90		22.7		114.8						
Max Q Clear Time (g_c+I1), s	7.4	64.1		18.8		7.1						
Green Ext Time (p_c), s	0.1	17.7		0.5		3.8						
Intersection Summary												
HCM 7th Control Delay, s/veh	28.9											
HCM 7th LOS	C											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

20: Rock Blvd & WB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	299	0	52	214	404	0	0	774	223
Future Volume (veh/h)	0	0	0	299	0	52	214	404	0	0	774	223
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Lane Width Adj.				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach				No			No				No	
Adj Sat Flow, veh/h/ln				1811	1811	1811	1811	1811	0	0	1811	1811
Adj Flow Rate, veh/h				341	0	0	225	425	0	0	815	164
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				6	6	6	6	6	0	0	6	6
Cap, veh/h				413	217	0	521	2736	0	0	2004	403
Arrive On Green				0.12	0.00	0.00	0.05	0.80	0.00	0.00	0.93	0.93
Sat Flow, veh/h				3450	1811	0	1725	3532	0	0	2944	574
Grp Volume(v), veh/h				341	0	0	225	425	0	0	491	488
Grp Sat Flow(s),veh/h/ln				1725	1811	0	1725	1721	0	0	1721	1708
Q Serve(g_s), s				13.0	0.0	0.0	4.6	3.9	0.0	0.0	4.1	4.1
Cycle Q Clear(g_c), s				13.0	0.0	0.0	4.6	3.9	0.0	0.0	4.1	4.1
Prop In Lane				1.00		0.00	1.00		0.00	0.00		0.34
Lane Grp Cap(c), veh/h				413	217	0	521	2736	0	0	1208	1199
V/C Ratio(X)				0.83	0.00	0.00	0.43	0.16	0.00	0.00	0.41	0.41
Avail Cap(c_a), veh/h				861	452	0	1064	2736	0	0	1208	1199
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.33
Upstream Filter(I)				1.00	0.00	0.00	0.97	0.97	0.00	0.00	0.93	0.93
Uniform Delay (d), s/veh				58.0	0.0	0.0	4.3	3.2	0.0	0.0	1.5	1.5
Incr Delay (d2), s/veh				4.2	0.0	0.0	0.6	0.1	0.0	0.0	0.9	1.0
Initial Q Delay(d3), s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln				9.9	0.0	0.0	2.8	2.2	0.0	0.0	2.3	2.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				62.3	0.0	0.0	4.8	3.4	0.0	0.0	2.4	2.4
LnGrp LOS				E			A	A			A	A
Approach Vol, veh/h					341			650			979	
Approach Delay, s/veh					62.3			3.9			2.4	
Approach LOS					E			A			A	
Timer - Assigned Phs	2			5		6	8					
Phs Duration (G+Y+Rc), s	112.5			12.5		100.0	22.5					
Change Period (Y+Rc), s	5.2			5.2		5.2	6.3					
Max Green Setting (Gmax), s	89.8			49.8		34.8	33.7					
Max Q Clear Time (g_c+I1), s	5.9			6.6		6.1	15.0					
Green Ext Time (p_c), s	3.2			0.7		7.5	1.1					
Intersection Summary												
HCM 7th Control Delay, s/veh				13.2								
HCM 7th LOS				B								
Notes												
User approved volume balancing among the lanes for turning movement.												

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

25: Rock Blvd & EB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	139	0	473	0	0	0	0	480	104	55	1019	0
Future Volume (veh/h)	139	0	473	0	0	0	0	480	104	55	1019	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No						No				No	
Adj Sat Flow, veh/h/ln	1811	1811	1811				0	1811	1811	1811	1811	0
Adj Flow Rate, veh/h	146	0	250				0	505	54	58	1073	0
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	6	6	6				0	6	6	6	6	0
Cap, veh/h	311	0	277				0	2176	971	631	2416	0
Arrive On Green	0.18	0.00	0.18				0.00	1.00	1.00	0.03	0.70	0.00
Sat Flow, veh/h	1725	0	1535				0	3532	1535	1725	3532	0
Grp Volume(v), veh/h	146	0	250				0	505	54	58	1073	0
Grp Sat Flow(s),veh/h/ln	1725	0	1535				0	1721	1535	1725	1721	0
Q Serve(g_s), s	10.2	0.0	21.5				0.0	0.0	0.0	1.5	18.2	0.0
Cycle Q Clear(g_c), s	10.2	0.0	21.5				0.0	0.0	0.0	1.5	18.2	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	311	0	277				0	2176	971	631	2416	0
V/C Ratio(X)	0.47	0.00	0.90				0.00	0.23	0.06	0.09	0.44	0.00
Avail Cap(c_a), veh/h	354	0	315				0	2176	971	1085	2416	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.97	0.97	0.82	0.82	0.00
Uniform Delay (d), s/veh	49.6	0.0	54.2				0.0	0.0	0.0	7.2	8.7	0.0
Incr Delay (d2), s/veh	1.1	0.0	25.9				0.0	0.2	0.1	0.1	0.5	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.0	0.0	15.6				0.0	0.1	0.1	1.0	10.4	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	50.7	0.0	80.1				0.0	0.2	0.1	7.2	9.2	0.0
LnGrp LOS	D		F					A	A	A	A	
Approach Vol, veh/h	396						559			1131		
Approach Delay, s/veh	69.2						0.2			9.1		
Approach LOS	E						A			A		
Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	9.4	90.6		31.6		100.0						
Change Period (Y+Rc), s	5.0	5.2		7.3		5.2						
Max Green Setting (Gmax), s	40.0	49.8		27.7		94.8						
Max Q Clear Time (g_c+I1), s	3.5	2.0		23.5		20.2						
Green Ext Time (p_c), s	0.1	4.1		0.8		10.8						
Intersection Summary												
HCM 7th Control Delay, s/veh				18.1								
HCM 7th LOS				B								

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

20: Rock Blvd & WB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	120	0	137	558	1288	0	0	401	298
Future Volume (veh/h)	0	0	0	120	0	137	558	1288	0	0	401	298
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Lane Width Adj.				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach				No			No				No	
Adj Sat Flow, veh/h/ln				1870	1870	1870	1870	1870	0	0	1870	1870
Adj Flow Rate, veh/h				101	41	72	607	1400	0	0	436	227
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				2	2	2	2	2	0	0	2	2
Cap, veh/h				151	52	91	724	2980	0	0	1413	729
Arrive On Green				0.08	0.08	0.08	0.36	1.00	0.00	0.00	0.21	0.21
Sat Flow, veh/h				1781	609	1069	1781	3647	0	0	2360	1170
Grp Volume(v), veh/h				101	0	113	607	1400	0	0	341	322
Grp Sat Flow(s),veh/h/ln				1781	0	1678	1781	1777	0	0	1777	1660
Q Serve(g_s), s				8.3	0.0	9.9	22.9	0.0	0.0	0.0	24.4	24.7
Cycle Q Clear(g_c), s				8.3	0.0	9.9	22.9	0.0	0.0	0.0	24.4	24.7
Prop In Lane				1.00		0.64	1.00		0.00	0.00		0.70
Lane Grp Cap(c), veh/h				151	0	142	724	2980	0	0	1108	1035
V/C Ratio(X)				0.67	0.00	0.79	0.84	0.47	0.00	0.00	0.31	0.31
Avail Cap(c_a), veh/h				341	0	321	1231	2980	0	0	1108	1035
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	0.33	0.33
Upstream Filter(I)				1.00	0.00	1.00	0.44	0.44	0.00	0.00	0.97	0.97
Uniform Delay (d), s/veh				66.6	0.0	67.4	8.4	0.0	0.0	0.0	32.1	32.2
Incr Delay (d2), s/veh				5.0	0.0	9.6	1.2	0.2	0.0	0.0	0.7	0.8
Initial Q Delay(d3), s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln				7.2	0.0	8.2	8.4	0.2	0.0	0.0	17.5	16.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				71.6	0.0	77.0	9.6	0.2	0.0	0.0	32.8	33.0
LnGrp LOS				E		E	A	A			C	C
Approach Vol, veh/h					214			2007			663	
Approach Delay, s/veh					74.4			3.1			32.9	
Approach LOS					E			A			C	
Timer - Assigned Phs	2			5		6	8					
Phs Duration (G+Y+Rc), s	131.0			32.3		98.7	19.0					
Change Period (Y+Rc), s	5.2			5.2		5.2	6.3					
Max Green Setting (Gmax), s	109.8			69.8		34.8	28.7					
Max Q Clear Time (g_c+I1), s	2.0			24.9		26.7	11.9					
Green Ext Time (p_c), s	17.6			2.2		2.6	0.8					
Intersection Summary												
HCM 7th Control Delay, s/veh				15.2								
HCM 7th LOS				B								
Notes												
User approved volume balancing among the lanes for turning movement.												

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

25: Rock Blvd & EB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations								 			 	
Traffic Volume (veh/h)	187	0	229	0	0	0	0	1660	279	67	453	0
Future Volume (veh/h)	187	0	229	0	0	0	0	1660	279	67	453	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No						No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870				0	1870	1870	1870	1870	0
Adj Flow Rate, veh/h	203	0	124				0	1804	212	73	492	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2				0	2	2	2	2	0
Cap, veh/h	229	0	204				0	2127	949	275	2800	0
Arrive On Green	0.13	0.00	0.13				0.00	0.60	0.60	0.15	0.79	0.00
Sat Flow, veh/h	1781	0	1585				0	3647	1585	1781	3647	0
Grp Volume(v), veh/h	203	0	124				0	1804	212	73	492	0
Grp Sat Flow(s),veh/h/ln	1781	0	1585				0	1777	1585	1781	1777	0
Q Serve(g_s), s	16.8	0.0	11.1				0.0	62.1	9.3	5.4	5.1	0.0
Cycle Q Clear(g_c), s	16.8	0.0	11.1				0.0	62.1	9.3	5.4	5.1	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	229	0	204				0	2127	949	275	2800	0
V/C Ratio(X)	0.89	0.00	0.61				0.00	0.85	0.22	0.27	0.18	0.00
Avail Cap(c_a), veh/h	270	0	240				0	2127	949	275	2800	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.56	0.56	0.85	0.85	0.00
Uniform Delay (d), s/veh	64.3	0.0	61.8				0.0	24.5	13.9	55.9	3.9	0.0
Incr Delay (d2), s/veh	25.0	0.0	3.3				0.0	2.5	0.3	0.4	0.1	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	14.2	0.0	8.2				0.0	32.4	5.7	4.5	3.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	89.3	0.0	65.0				0.0	27.1	14.3	56.3	4.0	0.0
LnGrp LOS	F		E					C	B	E	A	
Approach Vol, veh/h	327						2016			565		
Approach Delay, s/veh	80.1						25.7			10.8		
Approach LOS	F						C			B		
Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	28.4	95.0		26.6		123.4						
Change Period (Y+Rc), s	5.2	* 5.2		7.3		5.2						
Max Green Setting (Gmax), s	20.0	* 90		22.7		114.8						
Max Q Clear Time (g_c+l1), s	7.4	64.1		18.8		7.1						
Green Ext Time (p_c), s	0.1	17.7		0.5		3.8						
Intersection Summary												
HCM 7th Control Delay, s/veh	28.9											
HCM 7th LOS	C											
Notes												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

20: Rock Blvd & WB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	299	0	52	214	404	0	0	719	223
Future Volume (veh/h)	0	0	0	299	0	52	214	404	0	0	719	223
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Lane Width Adj.				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach				No			No				No	
Adj Sat Flow, veh/h/ln				1811	1811	1811	1811	1811	0	0	1811	1811
Adj Flow Rate, veh/h				315	0	28	225	425	0	0	757	164
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				6	6	6	6	6	0	0	6	6
Cap, veh/h				348	0	310	440	2453	0	0	1710	370
Arrive On Green				0.20	0.00	0.20	0.07	0.71	0.00	0.00	0.61	0.61
Sat Flow, veh/h				1725	0	1535	1725	3532	0	0	2903	609
Grp Volume(v), veh/h				315	0	28	225	425	0	0	463	458
Grp Sat Flow(s),veh/h/ln				1725	0	1535	1725	1721	0	0	1721	1701
Q Serve(g_s), s				24.1	0.0	2.0	6.3	5.5	0.0	0.0	19.5	19.5
Cycle Q Clear(g_c), s				24.1	0.0	2.0	6.3	5.5	0.0	0.0	19.5	19.5
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.36
Lane Grp Cap(c), veh/h				348	0	310	440	2453	0	0	1046	1034
V/C Ratio(X)				0.90	0.00	0.09	0.51	0.17	0.00	0.00	0.44	0.44
Avail Cap(c_a), veh/h				431	0	383	962	2453	0	0	1046	1034
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.98	0.98	0.00	0.00	0.93	0.93
Uniform Delay (d), s/veh				52.6	0.0	43.8	10.3	6.3	0.0	0.0	14.2	14.2
Incr Delay (d2), s/veh				19.5	0.0	0.1	0.9	0.2	0.0	0.0	1.3	1.3
Initial Q Delay(d3), s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln				18.1	0.0	1.4	4.3	3.5	0.0	0.0	12.3	12.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				72.1	0.0	43.9	11.2	6.5	0.0	0.0	15.5	15.5
LnGrp LOS				E		D	B	A			B	B
Approach Vol, veh/h					343			650			921	
Approach Delay, s/veh					69.8			8.1			15.5	
Approach LOS					E			A			B	
Timer - Assigned Phs	2			5		6	8					
Phs Duration (G+Y+Rc), s	101.4			14.2		87.3	33.6					
Change Period (Y+Rc), s	5.2			5.2		5.2	6.3					
Max Green Setting (Gmax), s	89.8			49.8		34.8	33.7					
Max Q Clear Time (g_c+I1), s	7.5			8.3		21.5	26.1					
Green Ext Time (p_c), s	3.2			0.7		5.1	1.2					
Intersection Summary												
HCM 7th Control Delay, s/veh				22.7								
HCM 7th LOS				C								

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

25: Rock Blvd & EB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations								 			 	
Traffic Volume (veh/h)	139	0	473	0	0	0	0	480	104	0	1019	0
Future Volume (veh/h)	139	0	473	0	0	0	0	480	104	0	1019	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No						No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811				0	1811	1811	0	1811	0
Adj Flow Rate, veh/h	146	0	250				0	505	54	0	1073	0
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	6	6	6				0	6	6	0	6	0
Cap, veh/h	311	0	277				0	2416	1078	0	2416	0
Arrive On Green	0.18	0.00	0.18				0.00	1.00	1.00	0.00	0.70	0.00
Sat Flow, veh/h	1725	0	1535				0	3532	1535	0	3622	0
Grp Volume(v), veh/h	146	0	250				0	505	54	0	1073	0
Grp Sat Flow(s),veh/h/ln	1725	0	1535				0	1721	1535	0	1721	0
Q Serve(g_s), s	10.2	0.0	21.5				0.0	0.0	0.0	0.0	18.2	0.0
Cycle Q Clear(g_c), s	10.2	0.0	21.5				0.0	0.0	0.0	0.0	18.2	0.0
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	311	0	277				0	2416	1078	0	2416	0
V/C Ratio(X)	0.47	0.00	0.90				0.00	0.21	0.05	0.00	0.44	0.00
Avail Cap(c_a), veh/h	354	0	315				0	2416	1078	0	2416	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.97	0.97	0.00	0.82	0.00
Uniform Delay (d), s/veh	49.6	0.0	54.2				0.0	0.0	0.0	0.0	8.7	0.0
Incr Delay (d2), s/veh	1.1	0.0	25.9				0.0	0.2	0.1	0.0	0.5	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.0	0.0	15.6				0.0	0.1	0.0	0.0	10.4	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	50.7	0.0	80.1				0.0	0.2	0.1	0.0	9.2	0.0
LnGrp LOS	D		F					A	A		A	
Approach Vol, veh/h	396						559			1073		
Approach Delay, s/veh	69.2						0.2			9.2		
Approach LOS	E						A			A		
Timer - Assigned Phs	2			4			6					
Phs Duration (G+Y+Rc), s	100.0			31.6			100.0					
Change Period (Y+Rc), s	5.2			7.3			5.2					
Max Green Setting (Gmax), s	94.8			27.7			94.8					
Max Q Clear Time (g_c+I1), s	2.0			23.5			20.2					
Green Ext Time (p_c), s	4.1			0.8			10.8					
Intersection Summary												
HCM 7th Control Delay, s/veh	18.4											
HCM 7th LOS	B											

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

20: Rock Blvd & WB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	120	0	137	558	1288	0	0	401	298
Future Volume (veh/h)	0	0	0	120	0	137	558	1288	0	0	401	298
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Lane Width Adj.				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach				No			No				No	
Adj Sat Flow, veh/h/ln				1870	1870	1870	1870	1870	0	0	1870	1870
Adj Flow Rate, veh/h				130	0	72	607	1400	0	0	436	227
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				2	2	2	2	2	0	0	2	2
Cap, veh/h				161	0	143	723	2961	0	0	1393	719
Arrive On Green				0.09	0.00	0.09	0.37	1.00	0.00	0.00	0.20	0.20
Sat Flow, veh/h				1781	0	1585	1781	3647	0	0	2360	1170
Grp Volume(v), veh/h				130	0	72	607	1400	0	0	341	322
Grp Sat Flow(s),veh/h/ln				1781	0	1585	1781	1777	0	0	1777	1660
Q Serve(g_s), s				10.7	0.0	6.5	23.4	0.0	0.0	0.0	24.5	24.8
Cycle Q Clear(g_c), s				10.7	0.0	6.5	23.4	0.0	0.0	0.0	24.5	24.8
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.70
Lane Grp Cap(c), veh/h				161	0	143	723	2961	0	0	1092	1020
V/C Ratio(X)				0.81	0.00	0.50	0.84	0.47	0.00	0.00	0.31	0.32
Avail Cap(c_a), veh/h				341	0	303	1224	2961	0	0	1092	1020
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	0.33	0.33
Upstream Filter(I)				1.00	0.00	1.00	0.69	0.69	0.00	0.00	0.97	0.97
Uniform Delay (d), s/veh				67.0	0.0	65.0	8.5	0.0	0.0	0.0	32.8	32.9
Incr Delay (d2), s/veh				9.2	0.0	2.7	1.9	0.4	0.0	0.0	0.7	0.8
Initial Q Delay(d3), s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln				9.1	0.0	5.0	9.1	0.3	0.0	0.0	17.6	16.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				76.2	0.0	67.8	10.4	0.4	0.0	0.0	33.5	33.7
LnGrp LOS				E		E	B	A			C	C
Approach Vol, veh/h					202			2007			663	
Approach Delay, s/veh					73.2			3.4			33.6	
Approach LOS					E			A			C	
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		130.2			32.8	97.4		19.8				
Change Period (Y+Rc), s		5.2			5.2	5.2		6.3				
Max Green Setting (Gmax), s		109.8			69.8	34.8		28.7				
Max Q Clear Time (g_c+I1), s		2.0			25.4	26.8		12.7				
Green Ext Time (p_c), s		17.6			2.2	2.6		0.8				
Intersection Summary												
HCM 7th Control Delay, s/veh				15.3								
HCM 7th LOS				B								

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

25: Rock Blvd & EB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	187	0	229	0	0	0	0	1660	279	0	453	0
Future Volume (veh/h)	187	0	229	0	0	0	0	1660	279	0	453	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No						No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870				0	1870	1870	0	1870	0
Adj Flow Rate, veh/h	203	0	124				0	1804	212	0	492	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2				0	2	2	0	2	0
Cap, veh/h	229	0	204				0	2800	1249	0	2800	0
Arrive On Green	0.13	0.00	0.13				0.00	0.79	0.79	0.00	0.79	0.00
Sat Flow, veh/h	1781	0	1585				0	3647	1585	0	3741	0
Grp Volume(v), veh/h	203	0	124				0	1804	212	0	492	0
Grp Sat Flow(s),veh/h/ln	1781	0	1585				0	1777	1585	0	1777	0
Q Serve(g_s), s	16.8	0.0	11.1				0.0	32.8	4.9	0.0	5.1	0.0
Cycle Q Clear(g_c), s	16.8	0.0	11.1				0.0	32.8	4.9	0.0	5.1	0.0
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	229	0	204				0	2800	1249	0	2800	0
V/C Ratio(X)	0.89	0.00	0.61				0.00	0.64	0.17	0.00	0.18	0.00
Avail Cap(c_a), veh/h	270	0	240				0	2800	1249	0	2800	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.56	0.56	0.00	0.86	0.00
Uniform Delay (d), s/veh	64.3	0.0	61.8				0.0	6.8	3.9	0.0	3.9	0.0
Incr Delay (d2), s/veh	25.0	0.0	3.3				0.0	0.6	0.2	0.0	0.1	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	14.2	0.0	8.2				0.0	15.3	2.7	0.0	3.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	89.3	0.0	65.0				0.0	7.5	4.1	0.0	4.0	0.0
LnGrp LOS	F		E					A	A		A	
Approach Vol, veh/h	327						2016			492		
Approach Delay, s/veh	80.1						7.1			4.0		
Approach LOS	F						A			A		
Timer - Assigned Phs	2			4			6					
Phs Duration (G+Y+Rc), s	123.4			26.6			123.4					
Change Period (Y+Rc), s	5.2			7.3			5.2					
Max Green Setting (Gmax), s	114.8			22.7			114.8					
Max Q Clear Time (g_c+l1), s	34.8			18.8			7.1					
Green Ext Time (p_c), s	32.3			0.5			3.8					
Intersection Summary												
HCM 7th Control Delay, s/veh	15.0											
HCM 7th LOS	B											

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

20: Rock Blvd & WB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	299	0	52	214	404	0	0	719	223
Future Volume (veh/h)	0	0	0	299	0	52	214	404	0	0	719	223
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Lane Width Adj.				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach				No			No				No	
Adj Sat Flow, veh/h/ln				1811	1811	1811	1811	1811	0	0	1811	1811
Adj Flow Rate, veh/h				315	0	28	225	425	0	0	757	164
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				6	6	6	6	6	0	0	6	6
Cap, veh/h				348	0	310	290	2453	0	0	1653	358
Arrive On Green				0.20	0.00	0.20	0.09	0.71	0.00	0.00	0.59	0.59
Sat Flow, veh/h				1725	0	1535	3346	3532	0	0	2903	609
Grp Volume(v), veh/h				315	0	28	225	425	0	0	463	458
Grp Sat Flow(s),veh/h/ln				1725	0	1535	1673	1721	0	0	1721	1701
Q Serve(g_s), s				24.1	0.0	2.0	8.9	5.5	0.0	0.0	20.5	20.5
Cycle Q Clear(g_c), s				24.1	0.0	2.0	8.9	5.5	0.0	0.0	20.5	20.5
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.36
Lane Grp Cap(c), veh/h				348	0	310	290	2453	0	0	1011	1000
V/C Ratio(X)				0.90	0.00	0.09	0.78	0.17	0.00	0.00	0.46	0.46
Avail Cap(c_a), veh/h				431	0	383	1234	2453	0	0	1011	1000
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.98	0.98	0.00	0.00	0.93	0.93
Uniform Delay (d), s/veh				52.6	0.0	43.8	60.4	6.3	0.0	0.0	15.7	15.7
Incr Delay (d2), s/veh				19.5	0.0	0.1	4.4	0.2	0.0	0.0	1.4	1.4
Initial Q Delay(d3), s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln				18.1	0.0	1.4	7.1	3.5	0.0	0.0	12.9	12.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				72.1	0.0	43.9	64.7	6.5	0.0	0.0	17.1	17.1
LnGrp LOS				E		D	E	A			B	B
Approach Vol, veh/h					343			650			921	
Approach Delay, s/veh					69.8			26.7			17.1	
Approach LOS					E			C			B	
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		101.4			16.9	84.5		33.6				
Change Period (Y+Rc), s		5.2			5.2	5.2		6.3				
Max Green Setting (Gmax), s		89.8			49.8	34.8		33.7				
Max Q Clear Time (g_c+I1), s		7.5			10.9	22.5		26.1				
Green Ext Time (p_c), s		3.2			0.8	4.8		1.2				
Intersection Summary												
HCM 7th Control Delay, s/veh				29.8								
HCM 7th LOS				C								

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

25: Rock Blvd & EB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations								 			 	
Traffic Volume (veh/h)	139	0	473	0	0	0	0	480	104	55	1019	0
Future Volume (veh/h)	139	0	473	0	0	0	0	480	104	55	1019	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No						No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811				0	1811	1811	1811	1811	0
Adj Flow Rate, veh/h	146	0	250				0	505	54	58	1073	0
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	6	6	6				0	6	6	6	6	0
Cap, veh/h	311	0	277				0	2176	971	631	2416	0
Arrive On Green	0.18	0.00	0.18				0.00	1.00	1.00	0.03	0.70	0.00
Sat Flow, veh/h	1725	0	1535				0	3532	1535	1725	3532	0
Grp Volume(v), veh/h	146	0	250				0	505	54	58	1073	0
Grp Sat Flow(s),veh/h/ln	1725	0	1535				0	1721	1535	1725	1721	0
Q Serve(g_s), s	10.2	0.0	21.5				0.0	0.0	0.0	1.5	18.2	0.0
Cycle Q Clear(g_c), s	10.2	0.0	21.5				0.0	0.0	0.0	1.5	18.2	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	311	0	277				0	2176	971	631	2416	0
V/C Ratio(X)	0.47	0.00	0.90				0.00	0.23	0.06	0.09	0.44	0.00
Avail Cap(c_a), veh/h	354	0	315				0	2176	971	1085	2416	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.97	0.97	0.79	0.79	0.00
Uniform Delay (d), s/veh	49.6	0.0	54.2				0.0	0.0	0.0	7.2	8.7	0.0
Incr Delay (d2), s/veh	1.1	0.0	25.9				0.0	0.2	0.1	0.0	0.5	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.0	0.0	15.6				0.0	0.1	0.1	1.0	10.4	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	50.7	0.0	80.1				0.0	0.2	0.1	7.2	9.2	0.0
LnGrp LOS	D		F					A	A	A	A	
Approach Vol, veh/h	396						559			1131		
Approach Delay, s/veh	69.2						0.2			9.1		
Approach LOS	E						A			A		
Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	9.4	90.6		31.6		100.0						
Change Period (Y+Rc), s	5.0	5.2		7.3		5.2						
Max Green Setting (Gmax), s	40.0	49.8		27.7		94.8						
Max Q Clear Time (g_c+I1), s	3.5	2.0		23.5		20.2						
Green Ext Time (p_c), s	0.1	4.1		0.8		10.8						
Intersection Summary												
HCM 7th Control Delay, s/veh	18.1											
HCM 7th LOS	B											

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

20: Rock Blvd & WB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	120	0	137	558	1288	0	0	401	298
Future Volume (veh/h)	0	0	0	120	0	137	558	1288	0	0	401	298
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Lane Width Adj.				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach				No			No				No	
Adj Sat Flow, veh/h/ln				1870	1870	1870	1870	1870	0	0	1870	1870
Adj Flow Rate, veh/h				130	0	72	607	1400	0	0	436	227
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				2	2	2	2	2	0	0	2	2
Cap, veh/h				161	0	143	673	2961	0	0	1369	706
Arrive On Green				0.09	0.00	0.09	0.39	1.00	0.00	0.00	0.20	0.20
Sat Flow, veh/h				1781	0	1585	3456	3647	0	0	2360	1170
Grp Volume(v), veh/h				130	0	72	607	1400	0	0	341	322
Grp Sat Flow(s),veh/h/ln				1781	0	1585	1728	1777	0	0	1777	1660
Q Serve(g_s), s				10.7	0.0	6.5	24.8	0.0	0.0	0.0	24.6	24.9
Cycle Q Clear(g_c), s				10.7	0.0	6.5	24.8	0.0	0.0	0.0	24.6	24.9
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.70
Lane Grp Cap(c), veh/h				161	0	143	673	2961	0	0	1073	1002
V/C Ratio(X)				0.81	0.00	0.50	0.90	0.47	0.00	0.00	0.32	0.32
Avail Cap(c_a), veh/h				341	0	303	1608	2961	0	0	1073	1002
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	0.33	0.33
Upstream Filter(I)				1.00	0.00	1.00	0.69	0.69	0.00	0.00	0.97	0.97
Uniform Delay (d), s/veh				67.0	0.0	65.0	44.5	0.0	0.0	0.0	33.6	33.8
Incr Delay (d2), s/veh				9.2	0.0	2.7	3.4	0.4	0.0	0.0	0.8	0.8
Initial Q Delay(d3), s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln				9.1	0.0	5.0	13.7	0.3	0.0	0.0	17.6	16.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh				76.2	0.0	67.8	47.9	0.4	0.0	0.0	34.4	34.6
LnGrp LOS				E		E	D	A			C	C
Approach Vol, veh/h					202			2007			663	
Approach Delay, s/veh					73.2			14.7			34.5	
Approach LOS					E			B			C	
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		130.2			34.4	95.8		19.8				
Change Period (Y+Rc), s		5.2			5.2	5.2		6.3				
Max Green Setting (Gmax), s		109.8			69.8	34.8		28.7				
Max Q Clear Time (g_c+I1), s		2.0			26.8	26.9		12.7				
Green Ext Time (p_c), s		17.6			2.4	2.6		0.8				
Intersection Summary												
HCM 7th Control Delay, s/veh				23.4								
HCM 7th LOS				C								

Attachment G-A - Improvement Options LOS Calculations

HCM 7th Signalized Intersection Summary

25: Rock Blvd & EB Ramps

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	187	0	229	0	0	0	0	1660	279	0	453	0
Future Volume (veh/h)	187	0	229	0	0	0	0	1660	279	0	453	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No						No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870				0	1870	1870	0	1870	0
Adj Flow Rate, veh/h	203	0	124				0	1804	212	0	492	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2				0	2	2	0	2	0
Cap, veh/h	229	0	204				0	2800	1249	0	2800	0
Arrive On Green	0.13	0.00	0.13				0.00	0.79	0.79	0.00	0.79	0.00
Sat Flow, veh/h	1781	0	1585				0	3647	1585	0	3741	0
Grp Volume(v), veh/h	203	0	124				0	1804	212	0	492	0
Grp Sat Flow(s),veh/h/ln	1781	0	1585				0	1777	1585	0	1777	0
Q Serve(g_s), s	16.8	0.0	11.1				0.0	32.8	4.9	0.0	5.1	0.0
Cycle Q Clear(g_c), s	16.8	0.0	11.1				0.0	32.8	4.9	0.0	5.1	0.0
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	229	0	204				0	2800	1249	0	2800	0
V/C Ratio(X)	0.89	0.00	0.61				0.00	0.64	0.17	0.00	0.18	0.00
Avail Cap(c_a), veh/h	270	0	240				0	2800	1249	0	2800	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.56	0.56	0.00	0.92	0.00
Uniform Delay (d), s/veh	64.3	0.0	61.8				0.0	6.8	3.9	0.0	3.9	0.0
Incr Delay (d2), s/veh	25.0	0.0	3.3				0.0	0.6	0.2	0.0	0.1	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	14.2	0.0	8.2				0.0	15.3	2.7	0.0	3.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	89.3	0.0	65.0				0.0	7.5	4.1	0.0	4.0	0.0
LnGrp LOS	F		E					A	A		A	
Approach Vol, veh/h	327						2016			492		
Approach Delay, s/veh	80.1						7.1			4.0		
Approach LOS	F						A			A		
Timer - Assigned Phs	2			4			6					
Phs Duration (G+Y+Rc), s	123.4			26.6			123.4					
Change Period (Y+Rc), s	5.2			7.3			5.2					
Max Green Setting (Gmax), s	114.8			22.7			114.8					
Max Q Clear Time (g_c+l1), s	34.8			18.8			7.1					
Green Ext Time (p_c), s	32.3			0.5			3.8					
Intersection Summary												
HCM 7th Control Delay, s/veh	15.0											
HCM 7th LOS	B											

Attachment G-A - Improvement Options LOS Calculations

HCM 7th TWSC 2: Rock Blvd & C St

Intersection												
Int Delay, s/veh	0.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	0	4	28	2	15	10	334	24	6	697	2
Future Vol, veh/h	1	0	4	28	2	15	10	334	24	6	697	2
Conflicting Peds, #/hr	0	0	0	0	0	0	2	0	1	1	0	2
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	150	-	-	50	-	100	250	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	5	5	5	5	5	5	5	5	5	5	5	5
Mvmt Flow	1	0	4	29	2	16	11	352	25	6	734	2
Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	947	1148	370	753	1124	177	738	0	0	378	0	0
Stage 1	749	749	-	374	374	-	-	-	-	-	-	-
Stage 2	198	399	-	379	750	-	-	-	-	-	-	-
Critical Hdwy	7.6	6.6	7	7.6	6.6	7	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.6	5.6	-	6.6	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.6	5.6	-	6.6	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.55	4.05	3.35	3.55	4.05	3.35	2.25	-	-	2.25	-	-
Pot Cap-1 Maneuver	211	193	619	293	199	826	844	-	-	1156	-	-
Stage 1	363	410	-	611	609	-	-	-	-	-	-	-
Stage 2	777	593	-	606	410	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	201	189	618	286	195	826	843	-	-	1155	-	-
Mov Cap-2 Maneuver	201	189	-	286	195	-	-	-	-	-	-	-
Stage 1	360	407	-	603	601	-	-	-	-	-	-	-
Stage 2	750	585	-	599	407	-	-	-	-	-	-	-
Approach	EB		WB		NB		SB					
HCM Control Delay, s/v13.35			16.09		0.25		0.07					
HCM LOS	B		C									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1WBLn2	SBL	SBT	SBR					
Capacity (veh/h)	843	-	-	437 286 598	1155	-	-					
HCM Lane V/C Ratio	0.012	-	-	0.012 0.103 0.03	0.005	-	-					
HCM Control Delay (s/veh)	9.3	-	-	13.3 19.1 11.2	8.1	-	-					
HCM Lane LOS	A	-	-	B C B	A	-	-					
HCM 95th %tile Q(veh)	0	-	-	0 0.3 0.1	0	-	-					

Attachment G-A - Improvement Options LOS Calculations

HCM 7th TWSC 2: Rock Blvd & C St

Intersection												
Int Delay, s/veh	1.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	1	4	26	4	15	9	1265	60	11	361	1
Future Vol, veh/h	3	1	4	26	4	15	9	1265	60	11	361	1
Conflicting Peds, #/hr	4	0	1	1	0	4	5	0	3	3	0	5
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	150	-	-	50	-	100	250	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	98	98	98	98	98	98	98	98	98	98	98	98
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	1	4	27	4	15	9	1291	61	11	368	1
Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1066	1770	191	1520	1709	652	374	0	0	1355	0	0
Stage 1	396	396	-	1312	1312	-	-	-	-	-	-	-
Stage 2	670	1373	-	208	397	-	-	-	-	-	-	-
Critical Hdwy	7.54	6.54	6.94	7.54	6.54	6.94	4.14	-	-	4.14	-	-
Critical Hdwy Stg 1	6.54	5.54	-	6.54	5.54	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.54	5.54	-	6.54	5.54	-	-	-	-	-	-	-
Follow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.22	-	-	2.22	-	-
Pot Cap-1 Maneuver	177	82	819	81	90	410	1181	-	-	504	-	-
Stage 1	600	602	-	167	227	-	-	-	-	-	-	-
Stage 2	413	212	-	774	602	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	156	79	814	77	87	408	1175	-	-	502	-	-
Mov Cap-2 Maneuver	156	79	-	77	87	-	-	-	-	-	-	-
Stage 1	584	586	-	166	224	-	-	-	-	-	-	-
Stage 2	386	209	-	751	586	-	-	-	-	-	-	-
Approach	EB		WB		NB		SB					
HCM Control Delay, s/v22.18			52.26		0.05		0.36					
HCM LOS	C		F									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1WBLn2	SBL	SBT	SBR					
Capacity (veh/h)	1175	-	-	218 77 229	502	-	-					
HCM Lane V/C Ratio	0.008	-	-	0.037 0.343 0.085	0.022	-	-					
HCM Control Delay (s/veh)	8.1	-	-	22.2 74.3 22.2	12.3	-	-					
HCM Lane LOS	A	-	-	C F C	B	-	-					
HCM 95th %tile Q(veh)	0	-	-	0.1 1.3 0.3	0.1	-	-					

Attachment G-A - Improvement Options LOS Calculations

HCM 7th TWSC 2: Rock Blvd & C St

Intersection												
Int Delay, s/veh	1.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	5	0	10	45	1	20	5	315	15	20	910	5
Future Vol, veh/h	5	0	10	45	1	20	5	315	15	20	910	5
Conflicting Peds, #/hr	0	0	0	0	0	0	2	0	1	1	0	2
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	Yield	-	-	None
Storage Length	-	-	-	150	-	-	50	-	0	250	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	5	5	5	5	5	5	5	5	5	5	5	5
Mvmt Flow	5	0	11	47	1	21	5	332	16	21	958	5
Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1181	1348	484	864	1350	167	965	0	0	333	0	0
Stage 1	1005	1005	-	343	343	-	-	-	-	-	-	-
Stage 2	177	343	-	521	1007	-	-	-	-	-	-	-
Critical Hdwy	7.6	6.6	7	7.6	6.6	7	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.6	5.6	-	6.6	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.6	5.6	-	6.6	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.55	4.05	3.35	3.55	4.05	3.35	2.25	-	-	2.25	-	-
Pot Cap-1 Maneuver	142	146	521	243	145	839	691	-	-	1202	-	-
Stage 1	253	311	-	637	628	-	-	-	-	-	-	-
Stage 2	799	628	-	499	310	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	134	142	520	232	141	838	690	-	-	1201	-	-
Mov Cap-2 Maneuver	134	142	-	232	141	-	-	-	-	-	-	-
Stage 1	248	305	-	632	623	-	-	-	-	-	-	-
Stage 2	772	623	-	480	304	-	-	-	-	-	-	-
Approach	EB		WB		NB		SB					
HCM Control Delay, s/v19.46			20.01		0.15		0.17					
HCM LOS	C		C									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1WBLn2	SBL	SBT	SBR					
Capacity (veh/h)	690	-	-	265	232	679	1201	-	-			
HCM Lane V/C Ratio	0.008	-	-	0.06	0.204	0.033	0.018	-	-			
HCM Control Delay (s/veh)	10.3	-	-	19.5	24.5	10.5	8.1	-	-			
HCM Lane LOS	B	-	-	C	C	B	A	-	-			
HCM 95th %tile Q(veh)	0	-	-	0.2	0.7	0.1	0.1	-	-			

Attachment G-A - Improvement Options LOS Calculations

HCM 7th TWSC 2: Rock Blvd & C St

Intersection												
Int Delay, s/veh	1.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	5	1	5	40	5	20	5	870	40	20	560	5
Future Vol, veh/h	5	1	5	40	5	20	5	870	40	20	560	5
Conflicting Peds, #/hr	4	0	1	1	0	4	5	0	3	3	0	5
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	Yield	-	-	None
Storage Length	-	-	-	150	-	-	50	-	0	250	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	98	98	98	98	98	98	98	98	98	98	98	98
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	5	1	5	41	5	20	5	888	41	20	571	5
Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1080	1521	294	1229	1523	451	582	0	0	891	0	0
Stage 1	620	620	-	901	901	-	-	-	-	-	-	-
Stage 2	461	901	-	328	622	-	-	-	-	-	-	-
Critical Hdwy	7.54	6.54	6.94	7.54	6.54	6.94	4.14	-	-	4.14	-	-
Critical Hdwy Stg 1	6.54	5.54	-	6.54	5.54	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.54	5.54	-	6.54	5.54	-	-	-	-	-	-	-
Follow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.22	-	-	2.22	-	-
Pot Cap-1 Maneuver	172	117	702	134	117	556	989	-	-	757	-	-
Stage 1	442	478	-	299	355	-	-	-	-	-	-	-
Stage 2	550	355	-	659	477	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	152	113	698	127	112	552	984	-	-	755	-	-
Mov Cap-2 Maneuver	152	113	-	127	112	-	-	-	-	-	-	-
Stage 1	428	463	-	297	352	-	-	-	-	-	-	-
Stage 2	517	352	-	634	462	-	-	-	-	-	-	-
Approach	EB		WB		NB		SB					
HCM Control Delay, s/v21.83			35.21		0.05		0.34					
HCM LOS	C		E									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1WBLn2	SBL	SBT	SBR					
Capacity (veh/h)	984	-	-	225 127 310	755	-	-					
HCM Lane V/C Ratio	0.005	-	-	0.05 0.321 0.082	0.027	-	-					
HCM Control Delay (s/veh)	8.7	-	-	21.8 46.2 17.7	9.9	-	-					
HCM Lane LOS	A	-	-	C E C	A	-	-					
HCM 95th %tile Q(veh)	0	-	-	0.2 1.3 0.3	0.1	-	-					

Attachment G-B - Road Diet LOS Calculations

HCM 7th TWSC

1: Rock Blvd & 15th St

Intersection						
Int Delay, s/veh	3.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	8	150	231	22	242	472
Future Vol, veh/h	8	150	231	22	242	472
Conflicting Peds, #/hr	0	2	0	2	2	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	9	174	269	26	281	549
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1395	285	0	0	296	0
Stage 1	283	-	-	-	-	-
Stage 2	1112	-	-	-	-	-
Critical Hdwy	6.43	6.23	-	-	4.13	-
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.527	3.327	-	-	2.227	-
Pot Cap-1 Maneuver	155	751	-	-	1259	-
Stage 1	762	-	-	-	-	-
Stage 2	313	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	120	748	-	-	1257	-
Mov Cap-2 Maneuver	120	-	-	-	-	-
Stage 1	761	-	-	-	-	-
Stage 2	243	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v12.59		0	2.94			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1WBLn2	SBL	SBT		
Capacity (veh/h)	-	- 120 748 1257	-	-		
HCM Lane V/C Ratio	-	- 0.077 0.233 0.224	-	-		
HCM Control Delay (s/veh)	-	- 37.5 11.3 8.7	-	-		
HCM Lane LOS	-	- E B A	-	-		
HCM 95th %tile Q(veh)	-	- 0.2 0.9 0.9	-	-		

Attachment G-B - Road Diet LOS Calculations

HCM 7th Signalized Intersection Summary

2: Rock Blvd & C St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	0	4	28	2	15	10	334	24	6	697	2
Future Volume (veh/h)	1	0	4	28	2	15	10	334	24	6	697	2
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826
Adj Flow Rate, veh/h	1	0	3	29	2	11	11	352	18	6	734	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	5	5	5	5	5	5	5	5	5	5	5
Cap, veh/h	40	5	35	96	7	41	210	955	807	505	943	1
Arrive On Green	0.03	0.00	0.03	0.03	0.03	0.03	0.02	0.70	0.70	0.01	0.52	0.52
Sat Flow, veh/h	221	165	1158	1380	244	1341	1739	1826	1544	1739	1823	2
Grp Volume(v), veh/h	4	0	0	29	0	13	11	352	18	6	0	735
Grp Sat Flow(s),veh/h/ln	1543	0	0	1380	0	1585	1739	1826	1544	1739	0	1825
Q Serve(g_s), s	0.0	0.0	0.0	2.4	0.0	1.1	0.4	10.7	0.5	0.2	0.0	43.9
Cycle Q Clear(g_c), s	0.3	0.0	0.0	2.7	0.0	1.1	0.4	10.7	0.5	0.2	0.0	43.9
Prop In Lane	0.25		0.75	1.00		0.85	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	80	0	0	96	0	48	210	955	807	505	0	944
V/C Ratio(X)	0.05	0.00	0.00	0.30	0.00	0.27	0.05	0.37	0.02	0.01	0.00	0.78
Avail Cap(c_a), veh/h	480	0	0	464	0	471	318	955	807	623	0	944
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.33	1.33	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.97	0.97	0.97	1.00	0.00	1.00
Uniform Delay (d), s/veh	63.6	0.0	0.0	64.7	0.0	64.0	22.2	11.4	9.9	15.7	0.0	26.4
Incr Delay (d2), s/veh	0.3	0.0	0.0	1.7	0.0	2.9	0.1	1.1	0.0	0.0	0.0	6.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.3	0.0	0.0	1.9	0.0	0.9	0.3	7.4	0.3	0.2	0.0	27.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	63.9	0.0	0.0	66.5	0.0	66.9	22.3	12.5	9.9	15.7	0.0	32.7
LnGrp LOS	E			E		E	C	B	A	B		C
Approach Vol, veh/h	4			42			381			741		
Approach Delay, s/veh	63.9			66.6			12.7			32.5		
Approach LOS	E			E			B			C		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.8	75.8		9.0	6.6	75.0		9.0				
Change Period (Y+Rc), s	4.8	5.2		4.9	4.9	5.2		4.9				
Max Green Setting (Gmax), s	10.2	69.8		40.1	10.1	69.8		40.1				
Max Q Clear Time (g_c+I1), s	2.2	12.7		2.3	2.4	45.9		4.7				
Green Ext Time (p_c), s	0.0	2.5		0.0	0.0	5.7		0.1				
Intersection Summary												
HCM 7th Control Delay, s/veh				27.4								
HCM 7th LOS				C								

Attachment G-B - Road Diet LOS Calculations

HCM 7th Signalized Intersection

Victorian Ave & Rock Blvd

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	13	54	136	109	100	14	66	341	34	20	695	19
Future Volume (veh/h)	13	54	136	109	100	14	66	341	34	20	695	19
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.99		0.99	0.99		0.96	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811
Adj Flow Rate, veh/h	14	57	71	115	105	11	69	359	25	21	732	14
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	6	6	6	6	6	6	6	6	6	6	6	6
Cap, veh/h	165	273	229	202	242	25	665	1296	1098	393	784	15
Arrive On Green	0.15	0.15	0.15	0.15	0.15	0.15	0.29	0.72	0.72	0.04	0.89	0.89
Sat Flow, veh/h	1219	1811	1516	1211	1604	168	1725	1811	1534	1725	1770	34
Grp Volume(v), veh/h	14	57	71	115	0	116	69	359	25	21	0	746
Grp Sat Flow(s),veh/h/ln	1219	1811	1516	1211	0	1772	1725	1811	1534	1725	0	1804
Q Serve(g_s), s	1.4	3.7	5.6	12.4	0.0	8.0	0.0	9.5	0.6	1.0	0.0	36.8
Cycle Q Clear(g_c), s	9.5	3.7	5.6	16.1	0.0	8.0	0.0	9.5	0.6	1.0	0.0	36.8
Prop In Lane	1.00		1.00	1.00		0.09	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	165	273	229	202	0	267	665	1296	1098	393	0	799
V/C Ratio(X)	0.09	0.21	0.31	0.57	0.00	0.43	0.10	0.28	0.02	0.05	0.00	0.93
Avail Cap(c_a), veh/h	343	538	450	380	0	526	665	1296	1098	548	0	799
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.97	0.97	0.97	0.88	0.00	0.88
Uniform Delay (d), s/veh	56.4	50.3	51.1	57.4	0.0	52.1	22.9	6.8	5.5	23.0	0.0	6.4
Incr Delay (d2), s/veh	0.2	0.4	0.8	2.5	0.0	1.1	0.1	0.5	0.0	0.0	0.0	17.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.8	3.1	4.0	7.1	0.0	6.6	2.5	6.6	0.4	0.7	0.0	10.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.6	50.6	51.8	59.8	0.0	53.2	22.9	7.3	5.6	23.0	0.0	23.9
LnGrp LOS	E	D	D	E		D	C	A	A	C		C
Approach Vol, veh/h	142			231			453			767		
Approach Delay, s/veh	51.8			56.5			9.6			23.9		
Approach LOS	D			E			A			C		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.8	101.9		25.2	44.8	65.0		25.2				
Change Period (Y+Rc), s	5.1	* 5.3		4.9	5.3	5.2		4.9				
Max Green Setting (Gmax), s	14.9	* 65		40.1	19.7	59.8		40.1				
Max Q Clear Time (g_c+I), s	13.0	11.5		11.5	2.0	38.8		18.1				
Green Ext Time (p_c), s	0.0	2.5		0.6	0.1	5.6		1.0				
Intersection Summary												
HCM 7th Control Delay, s/veh				27.1								
HCM 7th LOS				C								
Notes												
User approved pedestrian interval to be less than phase max green.												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment G-B - Road Diet LOS Calculations

HCM 7th TWSC

1: Rock Blvd & 15th St

Intersection						
Int Delay, s/veh	2.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	7	100	932	35	92	261
Future Vol, veh/h	7	100	932	35	92	261
Conflicting Peds, #/hr	0	0	0	7	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	98	98	98	98	98	98
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	102	951	36	94	266
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1430	976	0	0	994	0
Stage 1	976	-	-	-	-	-
Stage 2	454	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	148	305	-	-	696	-
Stage 1	365	-	-	-	-	-
Stage 2	640	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	127	303	-	-	691	-
Mov Cap-2 Maneuver	127	-	-	-	-	-
Stage 1	363	-	-	-	-	-
Stage 2	553	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v23.62		0	2.87			
HCM LOS	C					
Minor Lane/Major Mvmt	NBT	NBRWBLn1WBLn2	SBL	SBT		
Capacity (veh/h)	-	- 127 303	691	-		
HCM Lane V/C Ratio	-	- 0.056 0.337	0.136	-		
HCM Control Delay (s/veh)	-	- 34.9 22.8	11	-		
HCM Lane LOS	-	- D C	B	-		
HCM 95th %tile Q(veh)	-	- 0.2 1.4	0.5	-		

Attachment G-B - Road Diet LOS Calculations

HCM 7th Signalized Intersection 2: Rock Blvd & C St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	3	1	4	26	4	15	9	1265	60	11	361	1
Future Volume (veh/h)	3	1	4	26	4	15	9	1265	60	11	361	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.97		0.96	0.96		0.96	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	3	1	3	27	4	10	9	1291	29	11	368	1
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	58	23	35	121	24	60	873	1564	1293	265	1561	4
Arrive On Green	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.84	0.84	0.01	0.84	0.84
Sat Flow, veh/h	444	442	664	1361	460	1150	1781	1870	1547	1781	1864	5
Grp Volume(v), veh/h	7	0	0	27	0	14	9	1291	29	11	0	369
Grp Sat Flow(s),veh/h/ln	1549	0	0	1361	0	1610	1781	1870	1547	1781	0	1869
Q Serve(g_s), s	0.0	0.0	0.0	2.1	0.0	1.2	0.1	54.8	0.5	0.1	0.0	6.0
Cycle Q Clear(g_c), s	0.6	0.0	0.0	2.7	0.0	1.2	0.1	54.8	0.5	0.1	0.0	6.0
Prop In Lane	0.43		0.43	1.00		0.71	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	116	0	0	121	0	84	873	1564	1293	265	0	1565
V/C Ratio(X)	0.06	0.00	0.00	0.22	0.00	0.17	0.01	0.83	0.02	0.04	0.00	0.24
Avail Cap(c_a), veh/h	582	0	0	549	0	591	975	1564	1293	365	0	1565
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.09	0.09	0.09	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.6	0.0	0.0	68.6	0.0	67.9	1.9	6.5	2.1	12.0	0.0	2.5
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.9	0.0	0.9	0.0	0.5	0.0	0.1	0.0	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.5	0.0	0.0	1.9	0.0	1.0	0.1	18.8	0.2	0.3	0.0	3.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	67.8	0.0	0.0	69.5	0.0	68.8	1.9	7.0	2.1	12.1	0.0	2.8
LnGrp LOS	E			E		E	A	A	A	B		A
Approach Vol, veh/h	7			41			1329			380		
Approach Delay, s/veh	67.8			69.3			6.9			3.1		
Approach LOS	E			E			A			A		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.6	130.6		12.8	6.5	130.8		12.8				
Change Period (Y+Rc), s	4.8	5.2		4.9	4.9	5.2		4.9				
Max Green Setting (Gmax), s	10.2	69.8		55.1	10.1	69.8		55.1				
Max Q Clear Time (g_c+I1), s	2.1	56.8		2.6	2.1	8.0		4.7				
Green Ext Time (p_c), s	0.0	9.2		0.0	0.0	2.5		0.1				
Intersection Summary												
HCM 7th Control Delay, s/veh	7.7											
HCM 7th LOS	A											

Attachment G-B - Road Diet LOS Calculations

HCM 7th Signalized Intersection

3: Victorian Ave & Rock Blvd

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	106	89	109	93	15	126	1266	63	18	356	23
Future Volume (veh/h)	51	106	89	109	93	15	126	1266	63	18	356	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.96		0.97	0.99		0.94	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	52	108	45	111	95	10	129	1292	45	18	363	16
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	218	200	164	232	230	24	426	871	719	79	761	34
Arrive On Green	0.04	0.11	0.11	0.07	0.14	0.14	0.05	0.47	0.47	0.02	0.43	0.43
Sat Flow, veh/h	1767	1856	1529	1767	1639	173	1767	1856	1532	1767	1761	78
Grp Volume(v), veh/h	52	108	45	111	0	105	129	1292	45	18	0	379
Grp Sat Flow(s),veh/h/ln	1767	1856	1529	1767	0	1811	1767	1856	1532	1767	0	1839
Q Serve(g_s), s	3.9	8.3	4.1	8.2	0.0	7.9	5.9	70.4	2.4	0.8	0.0	22.1
Cycle Q Clear(g_c), s	3.9	8.3	4.1	8.2	0.0	7.9	5.9	70.4	2.4	0.8	0.0	22.1
Prop In Lane	1.00		1.00	1.00		0.10	1.00		1.00	1.00		0.04
Lane Grp Cap(c), veh/h	218	200	164	232	0	254	426	871	719	79	0	794
V/C Ratio(X)	0.24	0.54	0.27	0.48	0.00	0.41	0.30	1.48	0.06	0.23	0.00	0.48
Avail Cap(c_a), veh/h	421	372	307	353	0	339	505	871	719	282	0	794
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.56	0.56	0.56	0.98	0.00	0.98
Uniform Delay (d), s/veh	56.8	63.4	61.5	53.0	0.0	58.8	22.5	39.8	21.8	37.0	0.0	30.5
Incr Delay (d2), s/veh	0.6	2.3	0.9	1.5	0.0	1.1	0.2	221.1	0.1	1.4	0.0	2.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.2	7.3	2.9	6.8	0.0	6.7	4.5	124.1	1.6	0.7	0.0	15.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	57.4	65.7	62.4	54.6	0.0	59.9	22.8	260.9	21.9	38.4	0.0	32.5
LnGrp LOS	E	E	E	D		E	C	F	C	D		C
Approach Vol, veh/h	205			216			1466			397		
Approach Delay, s/veh	62.9			57.1			232.6			32.8		
Approach LOS	E			E			F			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	7.7	75.6	14.7	21.0	13.3	70.0	9.8	26.0				
Change Period (Y+Rc), s	5.1	5.2	4.5	4.9	5.3	5.2	4.5	4.9				
Max Green Setting (Gmax), s	19.9	59.8	20.5	30.1	14.7	64.8	22.5	28.1				
Max Q Clear Time (g_c+I), s	12.8	72.4	10.2	10.3	7.9	24.1	5.9	9.9				
Green Ext Time (p_c), s	0.0	0.0	0.2	0.6	0.2	2.6	0.1	0.4				
Intersection Summary												
HCM 7th Control Delay, s/veh	166.0											
HCM 7th LOS	F											

Attachment G-B - Road Diet LOS Calculations

HCM 7th TWSC

1: Rock Blvd & 15th St

Intersection						
Int Delay, s/veh	4.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	10	180	200	30	290	540
Future Vol, veh/h	10	180	200	30	290	540
Conflicting Peds, #/hr	0	2	0	2	2	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	12	209	233	35	337	628
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1554	254	0	0	269	0
Stage 1	252	-	-	-	-	-
Stage 2	1302	-	-	-	-	-
Critical Hdwy	6.43	6.23	-	-	4.13	-
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.527	3.327	-	-	2.227	-
Pot Cap-1 Maneuver	124	782	-	-	1288	-
Stage 1	788	-	-	-	-	-
Stage 2	253	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	91	779	-	-	1286	-
Mov Cap-2 Maneuver	91	-	-	-	-	-
Stage 1	786	-	-	-	-	-
Stage 2	187	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v13.35		0	3.07			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1WBLn2	SBL	SBT		
Capacity (veh/h)	-	- 91 779	1286	-		
HCM Lane V/C Ratio	-	- 0.128 0.269	0.262	-		
HCM Control Delay (s/veh)	-	- 50.2 11.3	8.8	-		
HCM Lane LOS	-	- F B	A	-		
HCM 95th %tile Q(veh)	-	- 0.4 1.1	1.1	-		

Attachment G-B - Road Diet LOS Calculations

HCM 7th Signalized Intersection

2: Rock Blvd & C St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	0	10	45	1	20	5	315	15	20	910	5
Future Volume (veh/h)	5	0	10	45	1	20	5	315	15	20	910	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826
Adj Flow Rate, veh/h	5	0	10	47	1	15	5	332	8	21	958	4
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	5	5	5	5	5	5	5	5	5	5	5
Cap, veh/h	49	10	46	118	4	66	68	944	799	613	963	4
Arrive On Green	0.05	0.00	0.05	0.05	0.05	0.05	0.01	1.00	1.00	0.02	0.53	0.53
Sat Flow, veh/h	290	224	1028	1371	98	1465	1739	1826	1544	1739	1817	8
Grp Volume(v), veh/h	15	0	0	47	0	16	5	332	8	21	0	962
Grp Sat Flow(s),veh/h/ln	1543	0	0	1371	0	1562	1739	1826	1544	1739	0	1825
Q Serve(g_s), s	0.0	0.0	0.0	3.0	0.0	1.3	0.2	0.0	0.0	0.8	0.0	70.7
Cycle Q Clear(g_c), s	1.2	0.0	0.0	4.2	0.0	1.3	0.2	0.0	0.0	0.8	0.0	70.7
Prop In Lane	0.33		0.67	1.00		0.94	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	105	0	0	118	0	70	68	944	799	613	0	967
V/C Ratio(X)	0.14	0.00	0.00	0.40	0.00	0.23	0.07	0.35	0.01	0.03	0.00	0.99
Avail Cap(c_a), veh/h	478	0	0	464	0	464	187	944	799	709	0	967
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.97	0.97	0.97	1.00	0.00	1.00
Uniform Delay (d), s/veh	62.1	0.0	0.0	63.5	0.0	62.2	32.9	0.0	0.0	14.6	0.0	31.5
Incr Delay (d2), s/veh	0.6	0.0	0.0	2.1	0.0	1.6	0.4	1.0	0.0	0.0	0.0	27.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.9	0.0	0.0	3.0	0.0	1.0	0.2	0.5	0.0	0.6	0.0	47.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	62.7	0.0	0.0	65.6	0.0	63.8	33.4	1.0	0.0	14.7	0.0	59.2
LnGrp LOS	E			E		E	C	A	A	B		E
Approach Vol, veh/h	15			63			345			983		
Approach Delay, s/veh	62.7			65.1			1.4			58.2		
Approach LOS	E			E			A			E		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.5	75.0		11.0	5.8	76.8		11.0				
Change Period (Y+Rc), s	4.8	5.2		4.9	4.9	5.2		4.9				
Max Green Setting (Gmax), s	10.2	69.8		40.1	10.1	69.8		40.1				
Max Q Clear Time (g_c+I1), s	2.8	2.0		3.2	2.2	72.7		6.2				
Green Ext Time (p_c), s	0.0	2.3		0.0	0.0	0.0		0.2				
Intersection Summary												
HCM 7th Control Delay, s/veh	44.7											
HCM 7th LOS	D											

Attachment G-B - Road Diet LOS Calculations

HCM 7th Signalized Intersection 3: Victorian Ave & Rock Blvd

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	70	130	210	130	20	60	300	30	60	900	10
Future Volume (veh/h)	20	70	130	210	130	20	60	300	30	60	900	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.99		0.99	0.99		0.97	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811
Adj Flow Rate, veh/h	21	74	69	221	137	15	63	316	23	63	947	8
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	6	6	6	6	6	6	6	6	6	6	6	6
Cap, veh/h	248	427	359	297	377	41	346	1118	946	442	861	7
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.17	0.62	0.62	0.07	0.96	0.96
Sat Flow, veh/h	1187	1811	1523	1199	1597	175	1725	1811	1534	1725	1793	15
Grp Volume(v), veh/h	21	74	69	221	0	152	63	316	23	63	0	955
Grp Sat Flow(s),veh/h/ln	1187	1811	1523	1199	0	1772	1725	1811	1534	1725	0	1808
Q Serve(g_s), s	2.0	4.4	4.9	24.3	0.0	9.7	0.0	10.9	0.8	2.8	0.0	64.8
Cycle Q Clear(g_c), s	11.7	4.4	4.9	28.7	0.0	9.7	0.0	10.9	0.8	2.8	0.0	64.8
Prop In Lane	1.00		1.00	1.00		0.10	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	248	427	359	297	0	418	346	1118	946	442	0	868
V/C Ratio(X)	0.08	0.17	0.19	0.74	0.00	0.36	0.18	0.28	0.02	0.14	0.00	1.10
Avail Cap(c_a), veh/h	321	538	452	371	0	526	346	1118	946	574	0	868
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.98	0.98	0.98	0.75	0.00	0.75
Uniform Delay (d), s/veh	48.0	41.1	41.3	52.5	0.0	43.1	46.5	12.0	10.0	20.6	0.0	2.7
Incr Delay (d2), s/veh	0.1	0.2	0.3	6.1	0.0	0.5	0.2	0.6	0.0	0.1	0.0	58.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.1	3.6	3.4	12.4	0.0	7.8	3.2	8.1	0.5	2.0	0.0	22.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	48.1	41.3	41.5	58.6	0.0	43.6	46.8	12.6	10.1	20.7	0.0	61.1
LnGrp LOS	D	D	D	E		D	D	B	B	C		F
Approach Vol, veh/h	164			373			402			1018		
Approach Delay, s/veh	42.3			52.5			17.8			58.6		
Approach LOS	D			D			B			E		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.6	88.6		36.8	28.2	70.0		36.8				
Change Period (Y+Rc), s	5.1	* 5.3		4.9	5.3	5.2		4.9				
Max Green Setting (Gmax), s	14.9	* 65		40.1	14.7	64.8		40.1				
Max Q Clear Time (g_c+I), s	14.8	12.9		13.7	2.0	66.8		30.7				
Green Ext Time (p_c), s	0.1	2.2		0.7	0.1	0.0		1.2				
Intersection Summary												
HCM 7th Control Delay, s/veh	47.7											
HCM 7th LOS	D											
Notes												
User approved pedestrian interval to be less than phase max green.												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment G-B - Road Diet LOS Calculations

HCM 7th TWSC

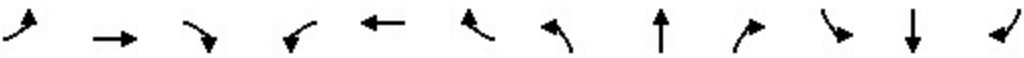
1: Rock Blvd & 15th St

Intersection						
Int Delay, s/veh	3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	10	130	880	20	130	460
Future Vol, veh/h	10	130	880	20	130	460
Conflicting Peds, #/hr	0	0	0	7	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	98	98	98	98	98	98
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	133	898	20	133	469
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	1650	915	0	0	925	0
Stage 1	915	-	-	-	-	-
Stage 2	735	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	109	330	-	-	738	-
Stage 1	390	-	-	-	-	-
Stage 2	475	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	88	328	-	-	734	-
Mov Cap-2 Maneuver	88	-	-	-	-	-
Stage 1	388	-	-	-	-	-
Stage 2	389	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s/v25.19		0		2.42		
HCM LOS	D					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	88	328	734	-
HCM Lane V/C Ratio	-	-	0.115	0.404	0.181	-
HCM Control Delay (s/veh)	-	-	50.9	23.2	11	-
HCM Lane LOS	-	-	F	C	B	-
HCM 95th %tile Q(veh)	-	-	0.4	1.9	0.7	-

Attachment G-B - Road Diet LOS Calculations

HCM 7th Signalized Intersection

2: Rock Blvd & C St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔		↔	↔		↔	↑	↔	↔	↔	↔
Traffic Volume (veh/h)	5	1	5	40	5	20	5	870	40	20	560	5
Future Volume (veh/h)	5	1	5	40	5	20	5	870	40	20	560	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.97		0.97	0.97		0.97	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	5	1	4	41	5	15	5	888	9	20	571	5
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	72	20	38	135	25	75	692	1533	1268	489	1539	13
Arrive On Green	0.06	0.06	0.06	0.06	0.06	0.06	0.01	0.82	0.82	0.02	0.83	0.83
Sat Flow, veh/h	580	329	606	1368	402	1205	1781	1870	1546	1781	1851	16
Grp Volume(v), veh/h	10	0	0	41	0	20	5	888	9	20	0	576
Grp Sat Flow(s),veh/h/ln	1515	0	0	1368	0	1606	1781	1870	1546	1781	0	1867
Q Serve(g_s), s	0.0	0.0	0.0	3.3	0.0	1.8	0.1	24.4	0.2	0.3	0.0	11.3
Cycle Q Clear(g_c), s	0.8	0.0	0.0	4.1	0.0	1.8	0.1	24.4	0.2	0.3	0.0	11.3
Prop In Lane	0.50		0.40	1.00		0.75	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	130	0	0	135	0	100	692	1533	1268	489	0	1553
V/C Ratio(X)	0.08	0.00	0.00	0.30	0.00	0.20	0.01	0.58	0.01	0.04	0.00	0.37
Avail Cap(c_a), veh/h	576	0	0	552	0	590	801	1533	1268	577	0	1553
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.63	0.63	0.63	1.00	0.00	1.00
Uniform Delay (d), s/veh	66.4	0.0	0.0	67.8	0.0	66.8	2.6	4.6	2.4	4.0	0.0	3.1
Incr Delay (d2), s/veh	0.2	0.0	0.0	1.3	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.7	0.0	0.0	2.8	0.0	1.4	0.0	12.0	0.1	0.2	0.0	6.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	66.6	0.0	0.0	69.1	0.0	67.8	2.6	5.6	2.5	4.1	0.0	3.8
LnGrp LOS	E			E		E	A	A	A	A		A
Approach Vol, veh/h	10			61			902			596		
Approach Delay, s/veh	66.6			68.7			5.6			3.8		
Approach LOS	E			E			A			A		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.6	128.2		14.2	5.8	130.0		14.2				
Change Period (Y+Rc), s	4.8	5.2		4.9	4.9	5.2		4.9				
Max Green Setting (Gmax), s	10.2	69.8		55.1	10.1	69.8		55.1				
Max Q Clear Time (g_c+I1), s	2.3	26.4		2.8	2.1	13.3		6.1				
Green Ext Time (p_c), s	0.0	8.9		0.0	0.0	4.5		0.2				
Intersection Summary												
HCM 7th Control Delay, s/veh				7.7								
HCM 7th LOS				A								

Attachment G-B - Road Diet LOS Calculations

HCM 7th Signalized Intersection

3: Victorian Ave & Rock Blvd

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	160	100	240	210	40	130	810	80	30	540	40
Future Volume (veh/h)	60	160	100	240	210	40	130	810	80	30	540	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.98		0.98	0.99		0.95	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	61	163	51	245	214	29	133	827	58	31	551	29
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	225	237	196	329	347	47	286	861	711	112	754	40
Arrive On Green	0.04	0.13	0.13	0.13	0.22	0.22	0.06	0.46	0.46	0.02	0.43	0.43
Sat Flow, veh/h	1767	1856	1535	1767	1589	215	1767	1856	1531	1767	1744	92
Grp Volume(v), veh/h	61	163	51	245	0	243	133	827	58	31	0	580
Grp Sat Flow(s),veh/h/ln	1767	1856	1535	1767	0	1805	1767	1856	1531	1767	0	1836
Q Serve(g_s), s	4.5	12.6	4.5	17.6	0.0	18.2	6.1	64.6	3.2	1.5	0.0	39.3
Cycle Q Clear(g_c), s	4.5	12.6	4.5	17.6	0.0	18.2	6.1	64.6	3.2	1.5	0.0	39.3
Prop In Lane	1.00		1.00	1.00		0.12	1.00		1.00	1.00		0.05
Lane Grp Cap(c), veh/h	225	237	196	329	0	394	286	861	711	112	0	793
V/C Ratio(X)	0.27	0.69	0.26	0.74	0.00	0.62	0.47	0.96	0.08	0.28	0.00	0.73
Avail Cap(c_a), veh/h	419	372	308	339	0	394	362	861	711	303	0	793
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.61	0.61	0.61	0.94	0.00	0.94
Uniform Delay (d), s/veh	53.9	62.6	59.1	47.1	0.0	53.0	27.1	38.8	22.4	35.1	0.0	35.4
Incr Delay (d2), s/veh	0.6	3.6	0.7	8.4	0.0	2.9	0.7	16.1	0.1	1.3	0.0	5.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.7	10.3	3.2	13.4	0.0	13.5	4.7	40.2	2.2	1.2	0.0	25.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	54.5	66.1	59.8	55.4	0.0	55.9	27.8	55.0	22.5	36.4	0.0	40.9
LnGrp LOS	D	E	E	E		E	C	D	C	D		D
Approach Vol, veh/h	275			488			1018			611		
Approach Delay, s/veh	62.4			55.6			49.6			40.7		
Approach LOS	E			E			D			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	7.7	74.8	24.2	24.0	13.6	70.0	10.5	37.6				
Change Period (Y+Rc), s	5.1	5.2	4.5	4.9	5.3	5.2	4.5	4.9				
Max Green Setting (Gmax), s	19.9	59.8	20.5	30.1	14.7	64.8	22.5	28.1				
Max Q Clear Time (g_c+I), s	13.5	66.6	19.6	14.6	8.1	41.3	6.5	20.2				
Green Ext Time (p_c), s	0.0	0.0	0.1	0.9	0.2	4.1	0.1	0.8				
Intersection Summary												
HCM 7th Control Delay, s/veh	50.0											
HCM 7th LOS	D											

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th TWSC

1: Rock Blvd & 15th St

Intersection						
Int Delay, s/veh	3.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	8	150	231	22	242	472
Future Vol, veh/h	8	150	231	22	242	472
Conflicting Peds, #/hr	0	2	0	2	2	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	9	174	269	26	281	549
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1395	151	0	0	296	0
Stage 1	283	-	-	-	-	-
Stage 2	1112	-	-	-	-	-
Critical Hdwy	6.645	6.945	-	-	4.145	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	-	-	2.2285	-
Pot Cap-1 Maneuver	143	866	-	-	1257	-
Stage 1	738	-	-	-	-	-
Stage 2	312	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	110	863	-	-	1255	-
Mov Cap-2 Maneuver	110	-	-	-	-	-
Stage 1	736	-	-	-	-	-
Stage 2	242	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v	11.77	0	2.95			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	110	863	1255	-
HCM Lane V/C Ratio	-	-	0.084	0.202	0.224	-
HCM Control Delay (s/veh)	-	-	40.6	10.2	8.7	-
HCM Lane LOS	-	-	E	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0.8	0.9	-

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th Signalized Intersection Summary

2: Rock Blvd & C St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	0	4	28	2	15	10	334	24	6	697	2
Future Volume (veh/h)	1	0	4	28	2	15	10	334	24	6	697	2
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826
Adj Flow Rate, veh/h	1	0	3	29	2	11	11	352	18	6	734	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	5	5	5	5	5	5	5	5	5	5	5
Cap, veh/h	40	5	35	96	7	41	210	1814	807	577	943	1
Arrive On Green	0.03	0.00	0.03	0.03	0.03	0.03	0.03	1.00	1.00	0.01	0.52	0.52
Sat Flow, veh/h	221	165	1158	1380	244	1341	1739	3469	1544	1739	1823	2
Grp Volume(v), veh/h	4	0	0	29	0	13	11	352	18	6	0	735
Grp Sat Flow(s),veh/h/ln	1543	0	0	1380	0	1585	1739	1735	1544	1739	0	1825
Q Serve(g_s), s	0.0	0.0	0.0	2.4	0.0	1.1	0.4	0.0	0.0	0.2	0.0	43.9
Cycle Q Clear(g_c), s	0.3	0.0	0.0	2.7	0.0	1.1	0.4	0.0	0.0	0.2	0.0	43.9
Prop In Lane	0.25		0.75	1.00		0.85	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	80	0	0	96	0	48	210	1814	807	577	0	944
V/C Ratio(X)	0.05	0.00	0.00	0.30	0.00	0.27	0.05	0.19	0.02	0.01	0.00	0.78
Avail Cap(c_a), veh/h	480	0	0	464	0	471	318	1814	807	695	0	944
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.99	0.99	0.99	1.00	0.00	1.00
Uniform Delay (d), s/veh	63.6	0.0	0.0	64.7	0.0	64.0	22.0	0.0	0.0	15.3	0.0	26.4
Incr Delay (d2), s/veh	0.3	0.0	0.0	1.7	0.0	2.9	0.1	0.2	0.1	0.0	0.0	6.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.3	0.0	0.0	1.9	0.0	0.9	0.3	0.1	0.0	0.2	0.0	27.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	63.9	0.0	0.0	66.5	0.0	66.9	22.1	0.2	0.1	15.3	0.0	32.7
LnGrp LOS	E			E		E	C	A	A	B		C
Approach Vol, veh/h	4			42			381			741		
Approach Delay, s/veh	63.9			66.6			0.9			32.5		
Approach LOS	E			E			A			C		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.8	75.8		9.0	6.6	75.0		9.0				
Change Period (Y+Rc), s	4.8	5.2		4.9	4.9	5.2		4.9				
Max Green Setting (Gmax), s	10.2	69.8		40.1	10.1	69.8		40.1				
Max Q Clear Time (g_c+I1), s	2.2	2.0		2.3	2.4	45.9		4.7				
Green Ext Time (p_c), s	0.0	2.7		0.0	0.0	5.7		0.1				
Intersection Summary												
HCM 7th Control Delay, s/veh	23.5											
HCM 7th LOS	C											

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th Signalized Intersection Summary

3: Victorian Ave & Rock Blvd

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	13	54	136	109	100	14	66	341	34	20	695	19
Future Volume (veh/h)	13	54	136	109	100	14	66	341	34	20	695	19
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.99		0.99	0.99		0.97	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811
Adj Flow Rate, veh/h	14	57	71	115	105	11	69	359	25	21	732	14
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	6	6	6	6	6	6	6	6	6	6	6	6
Cap, veh/h	165	273	229	202	242	25	749	2337	162	412	850	16
Arrive On Green	0.15	0.15	0.15	0.15	0.15	0.15	0.08	0.24	0.24	0.04	0.96	0.96
Sat Flow, veh/h	1226	1811	1516	1211	1607	168	1725	3264	226	1725	1770	34
Grp Volume(v), veh/h	14	57	71	115	0	116	69	188	196	21	0	746
Grp Sat Flow(s),veh/h/ln	1226	1811	1516	1211	0	1776	1725	1721	1770	1725	0	1804
Q Serve(g_s), s	1.4	3.7	5.6	12.4	0.0	8.0	0.0	11.7	11.8	0.9	0.0	12.9
Cycle Q Clear(g_c), s	9.4	3.7	5.6	16.1	0.0	8.0	0.0	11.7	11.8	0.9	0.0	12.9
Prop In Lane	1.00		1.00	1.00		0.09	1.00		0.13	1.00		0.02
Lane Grp Cap(c), veh/h	165	273	229	202	0	268	749	1232	1267	412	0	866
V/C Ratio(X)	0.08	0.21	0.31	0.57	0.00	0.43	0.09	0.15	0.15	0.05	0.00	0.86
Avail Cap(c_a), veh/h	345	538	450	380	0	527	749	1232	1267	567	0	866
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.97	0.97	0.97	0.88	0.00	0.88
Uniform Delay (d), s/veh	56.4	50.3	51.1	57.4	0.0	52.1	13.3	19.1	19.2	20.4	0.0	1.7
Incr Delay (d2), s/veh	0.2	0.4	0.8	2.5	0.0	1.1	0.1	0.3	0.3	0.0	0.0	9.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.8	3.1	4.0	7.1	0.0	6.6	2.0	9.3	9.6	0.7	0.0	6.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.6	50.6	51.8	59.8	0.0	53.2	13.4	19.4	19.4	20.5	0.0	11.5
LnGrp LOS	E	D	D	E		D	B	B	B	C		B
Approach Vol, veh/h	142			231			453			767		
Approach Delay, s/veh	51.8			56.5			18.5			11.7		
Approach LOS	D			E			B			B		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.8	101.9		25.2	39.8	70.0		25.2				
Change Period (Y+Rc), s	5.1	* 5.3		4.9	5.3	5.2		4.9				
Max Green Setting (Gmax), s	14.9	* 65		40.1	14.7	64.8		40.1				
Max Q Clear Time (g_c+I), s	12.9	13.8		11.4	2.0	14.9		18.1				
Green Ext Time (p_c), s	0.0	2.5		0.6	0.1	6.7		1.0				
Intersection Summary												
HCM 7th Control Delay, s/veh	23.7											
HCM 7th LOS	C											
Notes												
User approved pedestrian interval to be less than phase max green.												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th TWSC

1: Rock Blvd & 15th St

Intersection						
Int Delay, s/veh	1.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	7	100	932	35	92	261
Future Vol, veh/h	7	100	932	35	92	261
Conflicting Peds, #/hr	0	0	0	7	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	98	98	98	98	98	98
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	102	951	36	94	266
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	1430	500	0	0	994	0
Stage 1	976	-	-	-	-	-
Stage 2	454	-	-	-	-	-
Critical Hdwy	6.63	6.93	-	-	4.13	-
Critical Hdwy Stg 1	5.83	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.519	3.319	-	-	2.219	-
Pot Cap-1 Maneuver	136	517	-	-	694	-
Stage 1	327	-	-	-	-	-
Stage 2	639	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	117	513	-	-	689	-
Mov Cap-2 Maneuver	117	-	-	-	-	-
Stage 1	325	-	-	-	-	-
Stage 2	552	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s/v15.31		0		2.88		
HCM LOS	C					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	117	513	689	-
HCM Lane V/C Ratio	-	-	0.061	0.199	0.136	-
HCM Control Delay (s/veh)	-	-	37.7	13.7	11	-
HCM Lane LOS	-	-	E	B	B	-
HCM 95th %tile Q(veh)	-	-	0.2	0.7	0.5	-

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th Signalized Intersection Summary

2: Rock Blvd & C St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	3	1	4	26	4	15	9	1265	60	11	361	1
Future Volume (veh/h)	3	1	4	26	4	15	9	1265	60	11	361	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.98		0.96	0.96		0.98	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	3	1	3	27	4	10	9	1291	29	11	368	1
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	58	23	35	121	24	61	873	2971	1293	378	1561	4
Arrive On Green	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.84	0.84	0.01	0.84	0.84
Sat Flow, veh/h	447	443	667	1361	465	1163	1781	3554	1547	1781	1864	5
Grp Volume(v), veh/h	7	0	0	27	0	14	9	1291	29	11	0	369
Grp Sat Flow(s),veh/h/ln	1556	0	0	1361	0	1629	1781	1777	1547	1781	0	1869
Q Serve(g_s), s	0.0	0.0	0.0	2.1	0.0	1.2	0.1	14.0	0.5	0.1	0.0	6.0
Cycle Q Clear(g_c), s	0.6	0.0	0.0	2.7	0.0	1.2	0.1	14.0	0.5	0.1	0.0	6.0
Prop In Lane	0.43		0.43	1.00		0.71	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	116	0	0	121	0	85	873	2971	1293	378	0	1565
V/C Ratio(X)	0.06	0.00	0.00	0.22	0.00	0.16	0.01	0.43	0.02	0.03	0.00	0.24
Avail Cap(c_a), veh/h	586	0	0	549	0	598	975	2971	1293	478	0	1565
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.80	0.80	0.80	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.6	0.0	0.0	68.6	0.0	67.9	1.9	3.2	2.1	2.4	0.0	2.5
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.9	0.0	0.9	0.0	0.4	0.0	0.0	0.0	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.5	0.0	0.0	1.9	0.0	1.0	0.1	7.2	0.2	0.1	0.0	3.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	67.8	0.0	0.0	69.5	0.0	68.8	1.9	3.5	2.1	2.4	0.0	2.8
LnGrp LOS	E			E		E	A	A	A	A		A
Approach Vol, veh/h	7			41			1329			380		
Approach Delay, s/veh	67.8			69.3			3.5			2.8		
Approach LOS	E			E			A			A		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.6	130.6		12.8	6.5	130.8		12.8				
Change Period (Y+Rc), s	4.8	5.2		4.9	4.9	5.2		4.9				
Max Green Setting (Gmax), s	10.2	69.8		55.1	10.1	69.8		55.1				
Max Q Clear Time (g_c+I1), s	2.1	16.0		2.6	2.1	8.0		4.7				
Green Ext Time (p_c), s	0.0	14.4		0.0	0.0	2.5		0.1				
Intersection Summary												
HCM 7th Control Delay, s/veh				5.1								
HCM 7th LOS				A								

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th Signalized Intersection Summary

3: Victorian Ave & Rock Blvd

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	106	89	109	93	15	126	1266	63	18	356	23
Future Volume (veh/h)	51	106	89	109	93	15	126	1266	63	18	356	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.98		0.97	0.99		0.96	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	52	108	45	111	95	10	129	1292	45	18	363	16
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	220	200	164	232	231	24	426	1630	57	142	761	34
Arrive On Green	0.04	0.11	0.11	0.07	0.14	0.14	0.05	0.47	0.47	0.02	0.43	0.43
Sat Flow, veh/h	1767	1856	1529	1767	1644	173	1767	3472	121	1767	1761	78
Grp Volume(v), veh/h	52	108	45	111	0	105	129	655	682	18	0	379
Grp Sat Flow(s),veh/h/ln	1767	1856	1529	1767	0	1817	1767	1763	1830	1767	0	1839
Q Serve(g_s), s	3.9	8.3	4.1	8.2	0.0	7.9	5.9	47.1	47.2	0.8	0.0	22.1
Cycle Q Clear(g_c), s	3.9	8.3	4.1	8.2	0.0	7.9	5.9	47.1	47.2	0.8	0.0	22.1
Prop In Lane	1.00		1.00	1.00		0.10	1.00		0.07	1.00		0.04
Lane Grp Cap(c), veh/h	220	200	164	232	0	255	426	827	859	142	0	794
V/C Ratio(X)	0.24	0.54	0.27	0.48	0.00	0.41	0.30	0.79	0.79	0.13	0.00	0.48
Avail Cap(c_a), veh/h	423	372	307	353	0	340	505	827	859	345	0	794
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.56	0.56	0.56	0.98	0.00	0.98
Uniform Delay (d), s/veh	56.8	63.4	61.5	53.0	0.0	58.8	22.5	33.6	33.7	29.0	0.0	30.5
Incr Delay (d2), s/veh	0.5	2.3	0.9	1.5	0.0	1.1	0.2	4.4	4.3	0.4	0.0	2.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.2	7.3	2.9	6.8	0.0	6.7	4.5	26.7	27.6	0.7	0.0	15.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	57.4	65.7	62.4	54.6	0.0	59.9	22.8	38.1	38.0	29.4	0.0	32.5
LnGrp LOS	E	E	E	D		E	C	D	D	C		C
Approach Vol, veh/h	205			216			1466			397		
Approach Delay, s/veh	62.9			57.1			36.7			32.3		
Approach LOS	E			E			D			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	7.7	75.6	14.7	21.0	13.3	70.0	9.8	26.0				
Change Period (Y+Rc), s	5.1	5.2	4.5	4.9	5.3	5.2	4.5	4.9				
Max Green Setting (Gmax), s	19.9	59.8	20.5	30.1	14.7	64.8	22.5	28.1				
Max Q Clear Time (g_c+I), s	12.8	49.2	10.2	10.3	7.9	24.1	5.9	9.9				
Green Ext Time (p_c), s	0.0	6.4	0.2	0.6	0.2	2.6	0.1	0.4				
Intersection Summary												
HCM 7th Control Delay, s/veh	40.2											
HCM 7th LOS	D											

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th TWSC

1: Rock Blvd & 15th St

Intersection						
Int Delay, s/veh	4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	10	180	200	30	290	540
Future Vol, veh/h	10	180	200	30	290	540
Conflicting Peds, #/hr	0	2	0	2	2	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	12	209	233	35	337	628
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1554	138	0	0	269	0
Stage 1	252	-	-	-	-	-
Stage 2	1302	-	-	-	-	-
Critical Hdwy	6.645	6.945	-	-	4.145	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	-	-	2.2285	-
Pot Cap-1 Maneuver	113	883	-	-	1286	-
Stage 1	765	-	-	-	-	-
Stage 2	252	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	83	880	-	-	1284	-
Mov Cap-2 Maneuver	83	-	-	-	-	-
Stage 1	763	-	-	-	-	-
Stage 2	186	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v	12.73	0	3.07			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	83	880	1284	-
HCM Lane V/C Ratio	-	-	0.14	0.238	0.263	-
HCM Control Delay (s/veh)	-	-	55.3	10.4	8.8	-
HCM Lane LOS	-	-	F	B	A	-
HCM 95th %tile Q(veh)	-	-	0.5	0.9	1.1	-

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th Signalized Intersection Summary

2: Rock Blvd & C St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	0	10	45	1	20	5	315	15	20	910	5
Future Volume (veh/h)	5	0	10	45	1	20	5	315	15	20	910	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826
Adj Flow Rate, veh/h	5	0	10	47	1	15	5	332	8	21	958	4
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	5	5	5	5	5	5	5	5	5	5	5
Cap, veh/h	49	10	46	118	4	66	68	1794	799	613	963	4
Arrive On Green	0.05	0.00	0.05	0.05	0.05	0.05	0.01	1.00	1.00	0.02	0.53	0.53
Sat Flow, veh/h	290	224	1028	1371	98	1465	1739	3469	1544	1739	1817	8
Grp Volume(v), veh/h	15	0	0	47	0	16	5	332	8	21	0	962
Grp Sat Flow(s),veh/h/ln	1543	0	0	1371	0	1562	1739	1735	1544	1739	0	1825
Q Serve(g_s), s	0.0	0.0	0.0	3.0	0.0	1.3	0.2	0.0	0.0	0.8	0.0	70.7
Cycle Q Clear(g_c), s	1.2	0.0	0.0	4.2	0.0	1.3	0.2	0.0	0.0	0.8	0.0	70.7
Prop In Lane	0.33		0.67	1.00		0.94	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	105	0	0	118	0	70	68	1794	799	613	0	967
V/C Ratio(X)	0.14	0.00	0.00	0.40	0.00	0.23	0.07	0.19	0.01	0.03	0.00	0.99
Avail Cap(c_a), veh/h	478	0	0	464	0	464	187	1794	799	709	0	967
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.99	0.99	0.99	1.00	0.00	1.00
Uniform Delay (d), s/veh	62.1	0.0	0.0	63.5	0.0	62.2	32.9	0.0	0.0	14.6	0.0	31.5
Incr Delay (d2), s/veh	0.6	0.0	0.0	2.1	0.0	1.6	0.5	0.2	0.0	0.0	0.0	27.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.9	0.0	0.0	3.0	0.0	1.0	0.2	0.1	0.0	0.6	0.0	47.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	62.7	0.0	0.0	65.6	0.0	63.8	33.4	0.2	0.0	14.7	0.0	59.2
LnGrp LOS	E			E		E	C	A	A	B		E
Approach Vol, veh/h	15			63			345			983		
Approach Delay, s/veh	62.7			65.1			0.7			58.2		
Approach LOS	E			E			A			E		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.5	75.0		11.0	5.8	76.8		11.0				
Change Period (Y+Rc), s	4.8	5.2		4.9	4.9	5.2		4.9				
Max Green Setting (Gmax), s	10.2	69.8		40.1	10.1	69.8		40.1				
Max Q Clear Time (g_c+I1), s	2.8	2.0		3.2	2.2	72.7		6.2				
Green Ext Time (p_c), s	0.0	2.5		0.0	0.0	0.0		0.2				
Intersection Summary												
HCM 7th Control Delay, s/veh	44.5											
HCM 7th LOS	D											

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th Signalized Intersection Summary

3: Victorian Ave & Rock Blvd

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	70	130	210	130	20	60	300	30	60	900	10
Future Volume (veh/h)	20	70	130	210	130	20	60	300	30	60	900	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	0.99		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811	1811
Adj Flow Rate, veh/h	21	74	69	221	137	15	63	316	23	63	947	8
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	6	6	6	6	6	6	6	6	6	6	6	6
Cap, veh/h	249	427	359	297	378	41	346	2008	145	442	861	7
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.06	0.20	0.20	0.07	0.96	0.96
Sat Flow, veh/h	1191	1811	1523	1199	1600	175	1725	3253	236	1725	1793	15
Grp Volume(v), veh/h	21	74	69	221	0	152	63	166	173	63	0	955
Grp Sat Flow(s),veh/h/ln	1191	1811	1523	1199	0	1775	1725	1721	1768	1725	0	1808
Q Serve(g_s), s	2.0	4.4	4.9	24.3	0.0	9.7	0.5	10.7	10.8	2.8	0.0	64.8
Cycle Q Clear(g_c), s	11.7	4.4	4.9	28.7	0.0	9.7	0.5	10.7	10.8	2.8	0.0	64.8
Prop In Lane	1.00		1.00	1.00		0.10	1.00		0.13	1.00		0.01
Lane Grp Cap(c), veh/h	249	427	359	297	0	419	346	1062	1091	442	0	868
V/C Ratio(X)	0.08	0.17	0.19	0.74	0.00	0.36	0.18	0.16	0.16	0.14	0.00	1.10
Avail Cap(c_a), veh/h	322	538	452	371	0	527	346	1062	1091	575	0	868
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.98	0.98	0.98	0.75	0.00	0.75
Uniform Delay (d), s/veh	48.0	41.1	41.3	52.5	0.0	43.1	52.9	24.9	24.9	20.6	0.0	2.7
Incr Delay (d2), s/veh	0.1	0.2	0.3	6.1	0.0	0.5	0.2	0.3	0.3	0.1	0.0	58.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.1	3.6	3.4	12.4	0.0	7.8	3.7	8.7	9.0	2.0	0.0	22.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	48.1	41.3	41.5	58.6	0.0	43.6	53.2	25.2	25.2	20.7	0.0	61.1
LnGrp LOS	D	D	D	E		D	D	C	C	C		F
Approach Vol, veh/h	164			373			402			1018		
Approach Delay, s/veh	42.3			52.5			29.6			58.6		
Approach LOS	D			D			C			E		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.6	88.6		36.8	28.2	70.0		36.8				
Change Period (Y+Rc), s	5.1	* 5.3		4.9	5.3	5.2		4.9				
Max Green Setting (Gmax), s	14.9	* 65		40.1	14.7	64.8		40.1				
Max Q Clear Time (g_c+I), s	14.8	12.8		13.7	2.5	66.8		30.7				
Green Ext Time (p_c), s	0.1	2.2		0.7	0.1	0.0		1.2				
Intersection Summary												
HCM 7th Control Delay, s/veh	50.1											
HCM 7th LOS	D											
Notes												
User approved pedestrian interval to be less than phase max green.												
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.												

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th TWSC

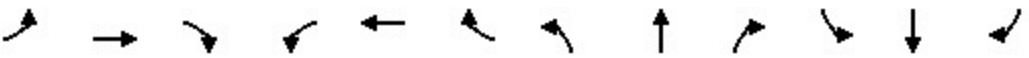
1: Rock Blvd & 15th St

Intersection						
Int Delay, s/veh	2.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	10	130	880	20	130	460
Future Vol, veh/h	10	130	880	20	130	460
Conflicting Peds, #/hr	0	0	0	7	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-	None	-	None
Storage Length	0	0	-	-	75	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	98	98	98	98	98	98
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	133	898	20	133	469
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1650	466	0	0	925	0
Stage 1	915	-	-	-	-	-
Stage 2	735	-	-	-	-	-
Critical Hdwy	6.63	6.93	-	-	4.13	-
Critical Hdwy Stg 1	5.83	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.519	3.319	-	-	2.219	-
Pot Cap-1 Maneuver	99	544	-	-	736	-
Stage 1	352	-	-	-	-	-
Stage 2	473	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	80	540	-	-	731	-
Mov Cap-2 Maneuver	80	-	-	-	-	-
Stage 1	349	-	-	-	-	-
Stage 2	388	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v16.85		0	2.43			
HCM LOS	C					
Minor Lane/Major Mvmt	NBT	NBRWBLn1WBLn2	SBL	SBT		
Capacity (veh/h)	-	- 80 540	731	-		
HCM Lane V/C Ratio	-	- 0.127 0.246	0.181	-		
HCM Control Delay (s/veh)	-	- 56.3 13.8	11	-		
HCM Lane LOS	-	- F B	B	-		
HCM 95th %tile Q(veh)	-	- 0.4 1	0.7	-		

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th Signalized Intersection Summary

2: Rock Blvd & C St

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔		↔	↔		↔	↕	↔	↔	↔	
Traffic Volume (veh/h)	5	1	5	40	5	20	5	870	40	20	560	5
Future Volume (veh/h)	5	1	5	40	5	20	5	870	40	20	560	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.98		0.97	0.97		0.98	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	5	1	4	41	5	15	5	888	9	20	571	5
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	72	20	38	135	25	75	692	2913	1268	553	1539	13
Arrive On Green	0.06	0.06	0.06	0.06	0.06	0.06	0.01	0.82	0.82	0.02	0.83	0.83
Sat Flow, veh/h	584	330	609	1368	406	1217	1781	3554	1546	1781	1851	16
Grp Volume(v), veh/h	10	0	0	41	0	20	5	888	9	20	0	576
Grp Sat Flow(s),veh/h/ln	1523	0	0	1368	0	1623	1781	1777	1546	1781	0	1867
Q Serve(g_s), s	0.0	0.0	0.0	3.3	0.0	1.8	0.1	9.0	0.2	0.3	0.0	11.3
Cycle Q Clear(g_c), s	0.8	0.0	0.0	4.1	0.0	1.8	0.1	9.0	0.2	0.3	0.0	11.3
Prop In Lane	0.50		0.40	1.00		0.75	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	130	0	0	135	0	101	692	2913	1268	553	0	1553
V/C Ratio(X)	0.08	0.00	0.00	0.30	0.00	0.20	0.01	0.30	0.01	0.04	0.00	0.37
Avail Cap(c_a), veh/h	580	0	0	552	0	596	801	2913	1268	641	0	1553
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.91	0.91	0.91	1.00	0.00	1.00
Uniform Delay (d), s/veh	66.4	0.0	0.0	67.8	0.0	66.8	2.6	3.2	2.4	2.3	0.0	3.1
Incr Delay (d2), s/veh	0.2	0.0	0.0	1.3	0.0	1.0	0.0	0.2	0.0	0.0	0.0	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.7	0.0	0.0	2.8	0.0	1.4	0.0	5.1	0.1	0.1	0.0	6.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	66.6	0.0	0.0	69.1	0.0	67.8	2.6	3.5	2.5	2.3	0.0	3.8
LnGrp LOS	E			E		E	A	A	A	A		A
Approach Vol, veh/h	10			61			902			596		
Approach Delay, s/veh	66.6			68.7			3.5			3.7		
Approach LOS	E			E			A			A		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.6	128.2		14.2	5.8	130.0		14.2				
Change Period (Y+Rc), s	4.8	5.2		4.9	4.9	5.2		4.9				
Max Green Setting (Gmax), s	10.2	69.8		55.1	10.1	69.8		55.1				
Max Q Clear Time (g_c+I1), s	2.3	11.0		2.8	2.1	13.3		6.1				
Green Ext Time (p_c), s	0.0	8.0		0.0	0.0	4.5		0.2				
Intersection Summary												
HCM 7th Control Delay, s/veh				6.5								
HCM 7th LOS				A								

Attachment G-C - Remove Southbound Lane LOS Calculations

HCM 7th Signalized Intersection Summary

3: Victorian Ave & Rock Blvd

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	160	100	240	210	40	130	810	80	30	540	40
Future Volume (veh/h)	60	160	100	240	210	40	130	810	80	30	540	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	0.99		0.98	0.99		0.97	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	61	163	51	245	214	29	133	827	58	31	551	29
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	227	237	196	329	348	47	286	1548	109	270	754	40
Arrive On Green	0.04	0.13	0.13	0.13	0.22	0.22	0.06	0.46	0.46	0.02	0.43	0.43
Sat Flow, veh/h	1767	1856	1535	1767	1594	216	1767	3335	234	1767	1744	92
Grp Volume(v), veh/h	61	163	51	245	0	243	133	437	448	31	0	580
Grp Sat Flow(s),veh/h/ln	1767	1856	1535	1767	0	1809	1767	1763	1806	1767	0	1836
Q Serve(g_s), s	4.5	12.6	4.5	17.6	0.0	18.2	6.1	26.5	26.5	1.5	0.0	39.3
Cycle Q Clear(g_c), s	4.5	12.6	4.5	17.6	0.0	18.2	6.1	26.5	26.5	1.5	0.0	39.3
Prop In Lane	1.00		1.00	1.00		0.12	1.00		0.13	1.00		0.05
Lane Grp Cap(c), veh/h	227	237	196	329	0	395	286	818	838	270	0	793
V/C Ratio(X)	0.27	0.69	0.26	0.74	0.00	0.62	0.47	0.53	0.53	0.11	0.00	0.73
Avail Cap(c_a), veh/h	421	372	308	339	0	395	362	818	838	461	0	793
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.61	0.61	0.61	0.94	0.00	0.94
Uniform Delay (d), s/veh	53.9	62.6	59.1	47.1	0.0	52.9	27.1	28.6	28.6	24.2	0.0	35.4
Incr Delay (d2), s/veh	0.6	3.6	0.7	8.4	0.0	2.8	0.7	1.5	1.5	0.2	0.0	5.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.7	10.3	3.2	13.4	0.0	13.5	4.7	16.0	16.3	1.1	0.0	25.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	54.5	66.1	59.8	55.4	0.0	55.8	27.8	30.2	30.1	24.4	0.0	40.9
LnGrp LOS	D	E	E	E		E	C	C	C	C		D
Approach Vol, veh/h	275					488		1018		611		
Approach Delay, s/veh	62.4					55.6		29.8		40.1		
Approach LOS	E					E		C		D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	7.7	74.8	24.2	24.0	13.6	70.0	10.5	37.6				
Change Period (Y+Rc), s	5.1	5.2	4.5	4.9	5.3	5.2	4.5	4.9				
Max Green Setting (Gmax), s	19.9	59.8	20.5	30.1	14.7	64.8	22.5	28.1				
Max Q Clear Time (g_c+I), s	13.5	28.5	19.6	14.6	8.1	41.3	6.5	20.2				
Green Ext Time (p_c), s	0.0	6.6	0.1	0.9	0.2	4.1	0.1	0.8				
Intersection Summary												
HCM 7th Control Delay, s/veh			41.5									
HCM 7th LOS			D									