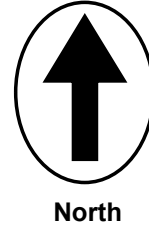


Date : 09/21/22

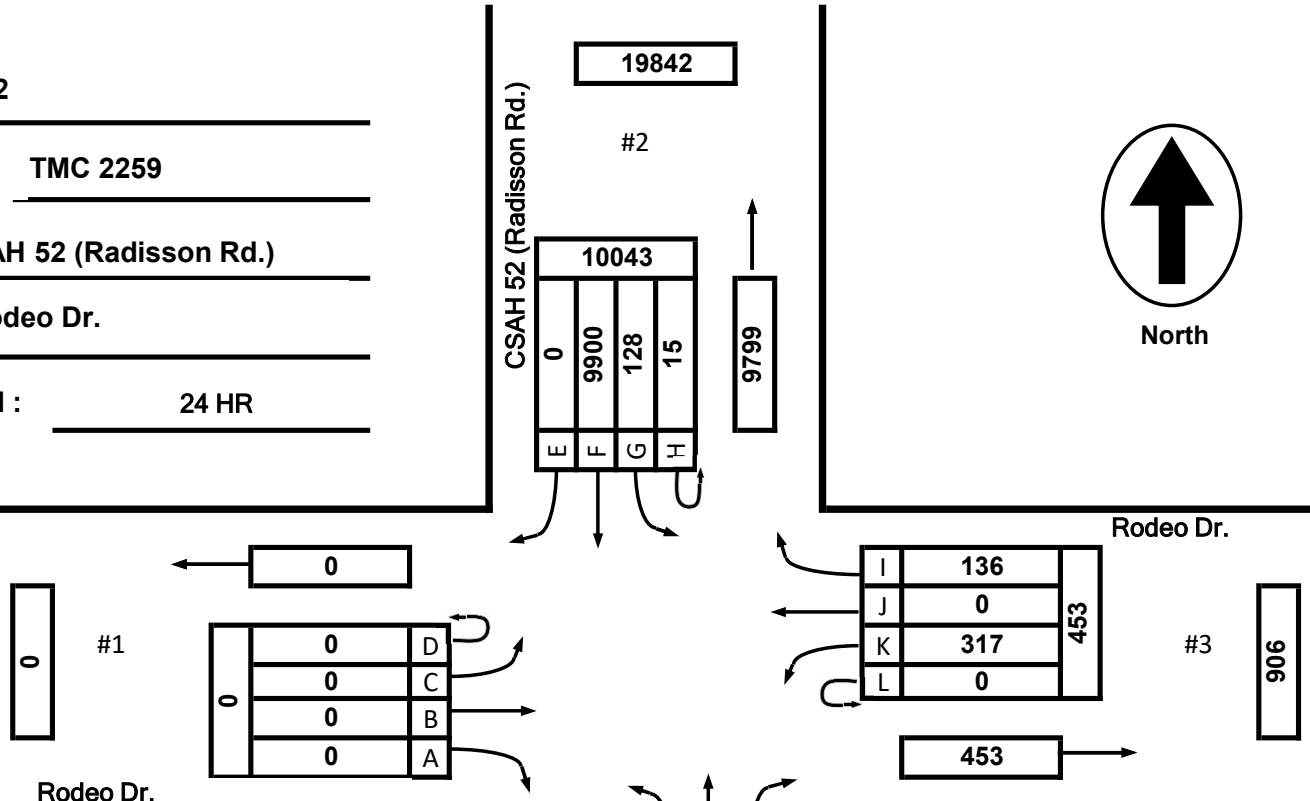
Count Number : TMC 2259

Location : CSAH 52 (Radisson Rd.)
@ Rodeo Dr.

Collection Period : 24 HR



North



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	0	0	0
#2	0	1	2	3
#3	0	0	1	1
#4	1	0	2	3

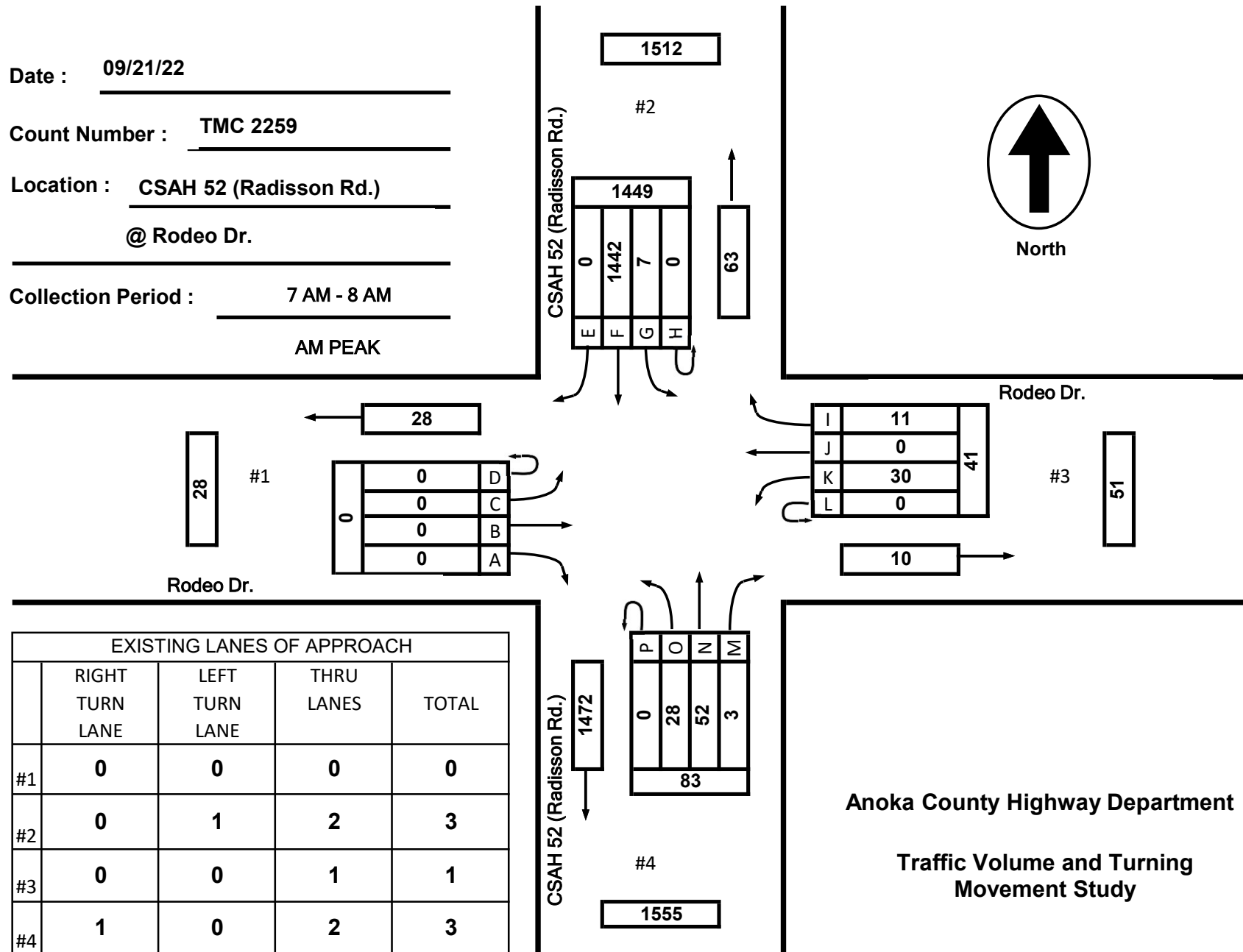
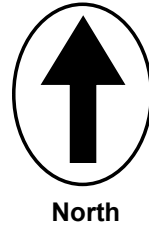
Anoka County Highway Department
 Traffic Volume and Turning Movement Study

Date : 09/21/22

Count Number : TMC 2259

Location : CSAH 52 (Radisson Rd.)
@ Rodeo Dr.

Collection Period : 7 AM - 8 AM
AM PEAK



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	0	0	0
#2	0	1	2	3
#3	0	0	1	1
#4	1	0	2	3

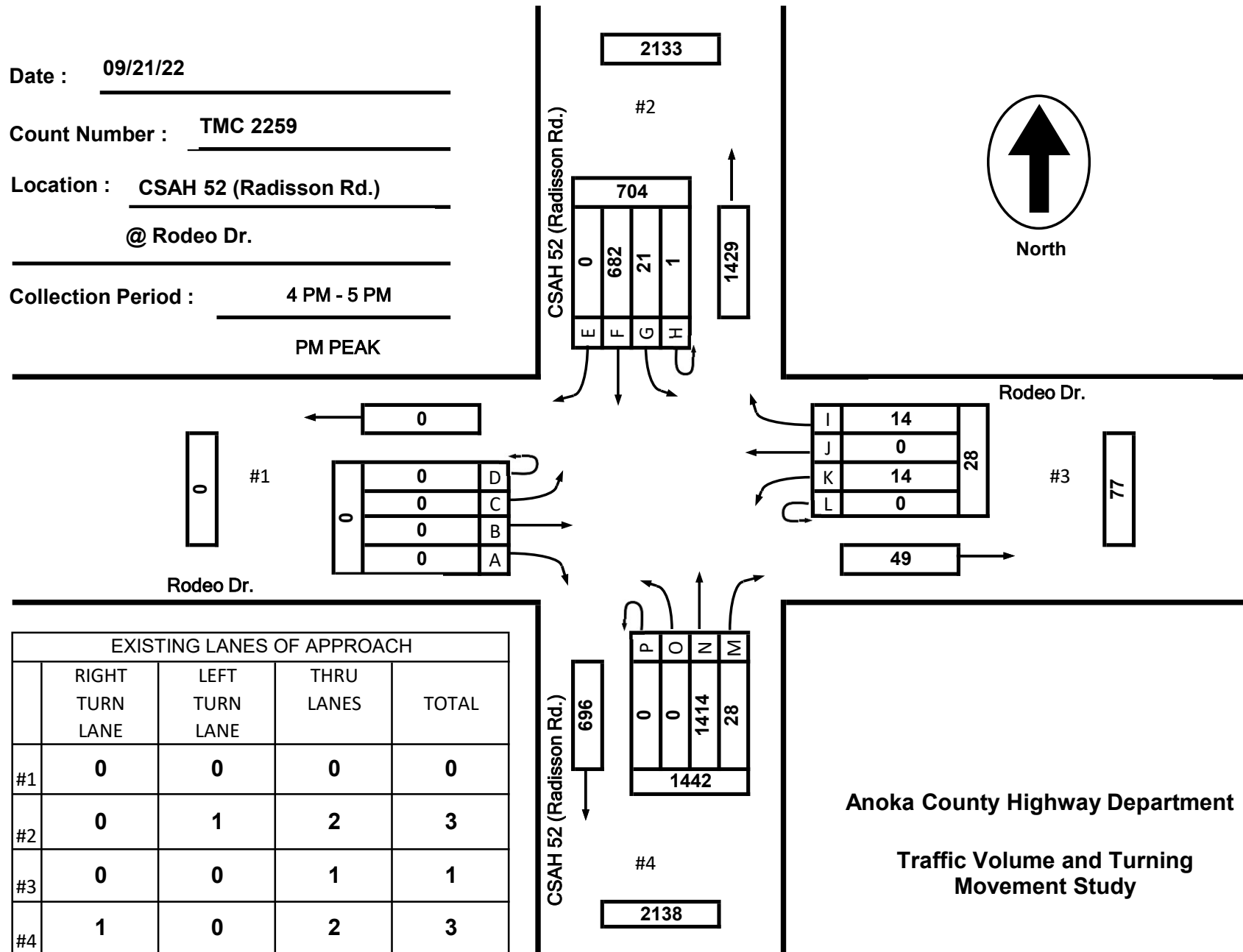
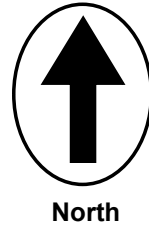
Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Date : 09/21/22

Count Number : TMC 2259

Location : CSAH 52 (Radisson Rd.)
@ Rodeo Dr.

Collection Period : 4 PM - 5 PM
PM PEAK



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	0	0	0
#2	0	1	2	3
#3	0	0	1	1
#4	1	0	2	3

Anoka County Highway Department
Traffic Volume and Turning Movement Study

TMC 2259
Blaine Minnesota
Wednesday, September 21, 2022

Time	Southbound CSAH 52 (Radisson Rd.)						Westbound Rodeo Dr.						Northbound CSAH 52 (Radisson Rd.)						Eastbound Rodeo Dr.						VEHICLE TOTAL						
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total							
12:00 AM	0	0	3	0	0	3	0	19	0	0	0	19	0	0	18	1	0	19	0	0	0	0	0	0	0	0	0	0	0	0	41
12:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	13
12:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	7
12:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	11
Hourly Total	0	0	10	0	0	10	0	19	0	0	0	19	0	0	42	1	0	43	0	0	0	0	0	0	0	0	0	0	0	0	72
1:00 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	7
1:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	4
1:30 AM	0	0	1	0	0	1	0	3	0	0	0	3	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	7
1:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	6
Hourly Total	0	0	8	0	0	8	0	3	0	0	0	3	0	0	13	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	24
2:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	7
2:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4
2:30 AM	0	0	2	0	0	2	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	6
2:45 AM	0	0	2	0	0	2	0	1	0	1	0	2	1	0	2	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	8
Hourly Total	0	0	7	0	0	7	0	2	0	1	0	3	1	0	13	1	0	15	0	0	0	0	0	0	0	0	0	0	0	0	25
3:00 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	6
3:15 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
3:30 AM	0	0	10	0	0	10	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	13
3:45 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	18
Hourly Total	0	0	29	0	0	29	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	41
4:00 AM	0	0	19	0	0	19	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	23
4:15 AM	0	0	27	0	0	27	0	1	0	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	32
4:30 AM	0	0	49	0	0	49	0	0	0	1	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	53
4:45 AM	0	0	42	0	0	42	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	49
Hourly Total	0	0	137	0	0	137	0	2	0	1	0	3	0	0	17	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	157
5:00 AM	0	0	50	0	0	50	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	59
5:15 AM	0	1	100	0	0	101	0	1	0	1	0	2	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	109
5:30 AM	0	1	126	0	0	127	0	1	0	1	0	2	0	0	14	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	143
5:45 AM	0	0	139	0	0	139	0	4	0	0	0	4	0	0	15	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	158
Hourly Total	0	2	415	0	0	417	0	6	0	2	0	8	0	0	44	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	469
6:00 AM	0	0	155	0	0	155	0	0	0	0	0	0	0	0	15	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	170
6:15 AM	0	1	184	0	0	185	0	3	0	1	0	4	0	0	22	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	211
6:30 AM	0	0	230	0	0	230	0	5	0	0	0	5	0	0	28	1	0	29	0	0	0	0	0	0	0	0	0	0	0	0	264
6:45 AM	0	0	277	0	0	277	0	2	0	3	0	5	0	0	34	3	0	37	0	0	0	0	0	0	0	0	0	0	0	0	319
Hourly Total	0	1	846	0	0	847	0	10	0	4	0	14	0	0	99	4	0	103	0	0	0	0	0	0	0	0	0	0	0	0	964
7:00 AM	0	0	295	0	0	295	0	10	0	3	0	13	0	0	50	3	0	53	0	0	0	0	0	0	0	0	0	0	0	0	361
7:15 AM	0	1	352	0	0	353	0	4	0	3	0	7	0	0	65	2	0	67	0	0	0	0	0	0	0	0	0	0	0	0	427
7:30 AM	0	1	411	0	0	412	0	9	0	3	0	12	0	0	52	4	0	56	0	0	0	0	0	0	0	0	0	0	0	0	480
7:45 AM	0	5	384	0	0	389	0	7	0	2	0	9	2	0	78	0	0	80	0	0	0	0	0	0	0	0	0	0	0	0	478
Hourly Total	0	7	1442	0	0	1449	0	30	0	11	0	41	2	0	245	9	0	256	0	0	0	0	0	0	0	0	0	0	0	0	1746

TMC 2259
Blaine Minnesota
Wednesday, September 21, 2022

Time	Southbound CSAH 52 (Radisson Rd.)						Westbound Rodeo Dr.						Northbound CSAH 52 (Radisson Rd.)						Eastbound Rodeo Dr.						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	1	269	0	0	270	0	9	0	2	0	11	2	0	73	4	0	79	0	0	0	0	0	0	360
8:15 AM	0	1	224	0	0	225	0	7	0	2	0	9	0	0	62	5	1	67	0	0	0	0	0	0	301
8:30 AM	0	3	196	0	0	199	0	9	0	1	0	10	0	0	67	4	0	71	0	0	0	0	0	0	280
8:45 AM	1	2	175	0	0	178	0	4	0	2	0	6	0	0	94	6	0	100	0	0	0	0	0	0	284
Hourly Total	1	7	864	0	0	872	0	29	0	7	0	36	2	0	296	19	1	317	0	0	0	0	0	0	1225
9:00 AM	0	2	172	0	0	174	0	1	0	3	0	4	0	0	64	3	0	67	0	0	0	0	0	0	245
9:15 AM	1	4	176	0	0	181	0	7	0	1	0	8	0	0	73	2	0	75	0	0	0	0	0	0	264
9:30 AM	0	1	144	0	0	145	0	4	0	0	0	4	1	0	98	5	0	104	0	0	0	0	0	0	253
9:45 AM	1	3	136	0	0	140	0	4	0	3	0	7	0	0	52	3	0	55	0	0	0	0	0	0	202
Hourly Total	2	10	628	0	0	640	0	16	0	7	0	23	1	0	287	13	0	301	0	0	0	0	0	0	964
10:00 AM	0	2	122	0	0	124	0	6	0	4	0	10	0	0	82	6	0	88	0	0	0	0	0	0	222
10:15 AM	0	2	111	0	0	113	0	7	0	3	0	10	0	0	85	3	1	88	0	0	0	0	0	0	211
10:30 AM	2	1	115	0	0	118	0	7	0	1	1	8	0	0	76	2	2	78	0	0	0	0	0	0	204
10:45 AM	2	0	127	0	0	127	0	6	0	1	0	7	0	0	79	1	0	80	0	0	0	0	0	0	214
Hourly Total	2	5	475	0	0	482	0	26	0	9	1	35	0	0	322	12	3	334	0	0	0	0	0	0	851
11:00 AM	0	0	129	0	0	129	0	2	0	3	0	5	0	0	78	5	0	83	0	0	0	0	0	0	217
11:15 AM	1	1	123	0	0	125	0	2	0	1	0	3	1	0	86	7	0	94	0	0	0	0	0	0	222
11:30 AM	0	3	106	0	0	109	0	5	0	3	0	8	0	0	98	5	0	103	0	0	0	0	0	0	220
11:45 AM	0	6	111	0	0	117	0	7	0	1	0	8	1	0	110	5	1	116	0	0	0	0	0	0	241
Hourly Total	1	10	469	0	0	480	0	16	0	8	0	24	2	0	372	22	1	396	0	0	0	0	0	0	900
12:00 PM	2	1	136	0	0	139	0	5	0	4	3	9	0	0	113	8	3	121	0	0	0	0	0	0	269
12:15 PM	0	3	110	0	0	113	0	9	0	0	0	9	0	0	107	7	0	114	0	0	0	0	0	0	236
12:30 PM	0	1	123	0	0	124	0	15	0	3	0	18	0	0	118	6	0	124	0	0	0	0	0	0	266
12:45 PM	1	1	124	0	0	126	0	3	0	2	0	5	0	0	139	11	0	150	0	0	0	0	0	0	281
Hourly Total	3	6	493	0	0	502	0	32	0	9	3	41	0	0	477	32	3	509	0	0	0	0	0	0	1052
1:00 PM	0	3	94	0	0	97	0	3	0	2	0	5	0	0	126	4	0	130	0	0	0	0	0	0	232
1:15 PM	0	3	110	0	0	113	0	5	0	2	0	7	1	0	119	3	0	123	0	0	0	0	0	0	243
1:30 PM	0	0	99	0	0	99	0	3	0	1	0	4	1	0	108	5	0	114	0	0	0	0	0	0	217
1:45 PM	0	3	111	0	0	114	0	6	0	2	0	8	0	0	143	5	0	148	0	0	0	0	0	0	270
Hourly Total	0	9	414	0	0	423	0	17	0	7	0	24	2	0	496	17	0	515	0	0	0	0	0	0	962
2:00 PM	0	2	105	0	0	107	0	2	0	1	0	3	0	0	123	4	0	127	0	0	0	0	0	0	237
2:15 PM	0	2	113	0	0	115	0	6	0	5	0	11	0	0	168	11	0	179	0	0	0	0	0	0	305
2:30 PM	0	1	124	0	0	125	0	0	0	2	0	2	0	0	162	7	0	169	0	0	0	0	0	0	296
2:45 PM	0	1	113	0	0	114	0	5	0	5	0	10	1	0	173	6	0	180	0	0	0	0	0	0	304
Hourly Total	0	6	455	0	0	461	0	13	0	13	0	26	1	0	626	28	0	655	0	0	0	0	0	0	1142
3:00 PM	0	3	107	0	0	110	0	2	0	5	0	7	0	0	239	5	0	244	0	0	0	0	0	0	361
3:15 PM	0	1	130	0	0	131	0	7	0	2	0	9	0	0	256	3	0	259	0	0	0	0	0	0	399
3:30 PM	0	2	139	0	0	141	0	6	0	4	0	10	0	0	260	2	0	262	0	0	0	0	0	0	413
3:45 PM	0	6	141	0	0	147	0	4	0	3	0	7	0	0	345	6	0	351	0	0	0	0	0	0	505
Hourly Total	0	12	517	0	0	529	0	19	0	14	0	33	0	0	1100	16	0	1116	0	0	0	0	0	0	1678

**TMC 2259
Blaine Minnesota
Wednesday, September 21, 2022**

AM Peak Hour

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
7:00 AM	0	0	295	0	0	295	0	10	0	3	0	13	0	0	50	3	0	53	0	0	0	0	0	0	
7:15 AM	0	1	352	0	0	353	0	4	0	3	0	7	0	7	0	0	65	7	0	0	0	0	0	0	
7:30 AM	0	1	411	0	0	412	0	9	0	3	0	12	0	12	0	0	52	12	0	0	0	0	0	0	
7:45 AM	0	5	384	0	0	389	0	7	0	2	0	9	0	9	2	0	78	11	0	0	0	0	0	0	
Peak Hour Total	0	7	1442	0	0	1449	0	30	0	11	0	41	0	28	52	3	195	83	0	0	0	0	0	0	
PHF	0.000	0.350	0.877	0.000	0.000	0.879	0.000	0.750	0.000	0.917	0.000	0.788	0.000	0.583	0.260	0.250	0.625	0.392	0.000	0.000	0.000	0.000	0.000	0.000	

PM Peak Hour

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	5	145	0	0	150	0	6	0	2	0	8	0	0	336	7	0	343	0	0	0	0	0	0	
4:15 PM	0	5	176	0	0	181	0	2	0	1	1	3	0	0	373	5	0	378	0	0	0	0	0	0	
4:30 PM	0	5	167	0	0	172	0	1	0	6	0	7	0	0	354	11	0	365	0	0	0	0	0	0	
4:45 PM	1	6	194	0	0	201	0	5	0	5	0	10	0	0	351	5	0	356	0	0	0	0	0	0	
Peak Hour Total	1	21	682	0	0	704	0	14	0	14	1	28	0	0	1414	28	0	1442	0	0	0	0	0	0	
PHF	0.250	0.875	0.879	0.000	0.000	0.876	0.000	0.583	0.000	0.583	0.250	0.700	0.000	0.000	0.948	0.636	0.000	0.954	0.000	0.000	0.000	0.000	0.000	0.000	

Total Vehicles On Leg		19842	
Vehicles Entering Intersection	10043	Vehicles Exiting Intersection	9799
Southbound			
Cars	0	9725	123
Heavy	0	175	5
Total	0	9900	128

Total Vehicles on Leg 0	Vehicles Entering Intersection 0	Eastbound	Cars	0	0
			Heavy	0	0
			Total	0	0
			Vehicles Exiting Intersection	0	0
			Total	0	0

Cars	128	8	136	Westbound	Vehicles Entering Intersection	453	Total Vehicles on Leg 906
Heavy	0	0					
Total	306	11	317				
Vehicles Exiting Intersection	0	0					
Total	4	1	5				

Daily Volumes

Cars	5	10	0	9499	312
Heavy	3	1	0	149	13
Total	8	11	0	9648	325
Northbound					
Vehicles Entering Intersection			9984		
Vehicles Exiting Intersection			10228		
Total Vehicles On Leg			20212		

Heavy Vehicles

Date	Time	Southbound					Westbound					Northbound					Eastbound				
		U Turns	Left Turns	Straight Through	Right Turns	Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	Bicycles in Crosswalk
09/21/2022	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15	0	0	3	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
	6:30	0	0	2	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
	6:45	0	0	10	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0
	7:00	0	0	6	0	0	0	1	0	0	0	0	9	0	0	0	0	0	0	0	0
	7:15	0	0	7	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0
	7:30	0	0	6	0	0	0	1	0	0	0	0	5	1	0	0	0	0	0	0	0
	7:45	0	0	5	0	0	0	1	0	0	0	0	4	0	0	0	0	0	0	0	0
	8:00	0	0	6	0	0	0	0	0	0	1	0	5	0	0	0	0	0	0	0	0
	8:15	0	0	5	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0
	8:30	0	2	4	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0
	8:45	0	0	2	0	0	0	1	0	1	0	0	8	1	0	0	0	0	0	0	0
	9:00	0	0	2	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0
	9:15	0	0	11	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
	9:30	0	0	5	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
	9:45	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	10:00	0	0	4	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
	10:15	0	0	3	0	0	0	0	0	0	0	0	4	0	1	0	0	0	0	0	0
	10:30	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
	10:45	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
	11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11:15	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	11:30	0	0	2	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
	11:45	0	0	3	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2259

Study Date : 11/18/2022

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 52

Number of Lanes : 2+

Total Approach Volume: 9,984

Southbound: CSAH 52

Number of Lanes :2+

Total Approach Volume: 10,043

Minor Street Approaches

Eastbound: Rodeo Drive

Number of Lanes :1

Total Approach Volume: 0

Westbound: Rodeo Drive

Number of Lanes :1

Total Approach Volume: 453

Warrant Summary (Rural Values Apply)

Warrant 1 - Eight Hour Vehicular Volumes.....Not Satisfied

Warrant 1A - Minimum Vehicular Volume.....Not Satisfied

Required volumes reached for 0 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Not Satisfied

Required volumes reached for 0 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Not Satisfied

Required 1A volumes reached for 0 hours, 8 are needed

Required 1B volumes reached for 1 hours, 8 are needed

Warrant 2 - Four Hour Volumes.....Not Satisfied

Number of hours (0) volumes exceed minimum < minimum required (4).

Warrant 3 - Peak Hour.....Not Satisfied

Warrant 3A - Peak Hour Delay.....Not Satisfied

Approach volumes on minor street don't exceed minimums for any one hour period. Delay data not evaluated.

Warrant 3B - Peak Hour Volumes.....Not Satisfied

Volumes do not exceed minimums for any one hour period.

Warrant 4 - Pedestrian Volumes.....Not Evaluated

Warrant 5 - School Crossing.....Not Evaluated

Warrant 6 - Coordinated Signal System.....Not Evaluated

Warrant 7 - Crash Experience.....Not Evaluated

Warrant 8 - Roadway Network.....Not Evaluated

Warrant 9 - Intersection Near a Grade Crossing.....Not Evaluated

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2259

Study Date : 11/18/2022

Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **420**
 Veh/Hr Minor = **105**

Time	Major Road CSAH 52				Total	Minor Road Rodeo Drive		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	1442	+	704	=	2146	0	28	No
16:15 - 17:15	1421	+	718	=	2139	0	28	No
15:45 - 16:45	1437	+	650	=	2087	0	25	No
16:30 - 17:30	1385	+	700	=	2085	0	32	No
16:45 - 17:45	1339	+	670	=	2009	0	33	No
15:30 - 16:30	1334	+	619	=	1953	0	28	No
17:00 - 18:00	1242	+	645	=	1887	0	33	No
17:15 - 18:15	1188	+	655	=	1843	0	31	No
15:15 - 16:15	1215	+	569	=	1784	0	34	No
17:30 - 18:30	1090	+	660	=	1750	0	33	No
07:15 - 08:15	282	+	1424	=	1706	0	39	No
07:00 - 08:00	256	+	1449	=	1705	0	41	No
15:00 - 16:00	1116	+	529	=	1645	0	33	No
17:45 - 18:45	991	+	652	=	1643	0	28	No
07:30 - 08:30	282	+	1296	=	1578	0	41	No
06:45 - 07:45	213	+	1337	=	1550	0	37	No
18:00 - 19:00	886	+	582	=	1468	0	25	No
14:45 - 15:45	945	+	496	=	1441	0	36	No
07:45 - 08:45	297	+	1083	=	1380	0	39	No
06:30 - 07:30	186	+	1155	=	1341	0	30	No
14:30 - 15:30	852	+	480	=	1332	0	28	No
18:15 - 19:15	800	+	508	=	1308	0	22	No
14:15 - 15:15	772	+	464	=	1236	0	30	No
18:30 - 19:30	775	+	460	=	1235	0	19	No
08:00 - 09:00	317		872		1189	0	36	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2259

Study Date : 11/18/2022

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **630**
 Veh/Hr Minor = **53**

Time	Major Road CSAH 52				Total	Minor Road Rodeo Drive		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	1442	+	704	=	2146	0	28	No
16:15 - 17:15	1421	+	718	=	2139	0	28	No
15:45 - 16:45	1437	+	650	=	2087	0	25	No
16:30 - 17:30	1385	+	700	=	2085	0	32	No
16:45 - 17:45	1339	+	670	=	2009	0	33	No
15:30 - 16:30	1334	+	619	=	1953	0	28	No
17:00 - 18:00	1242	+	645	=	1887	0	33	No
17:15 - 18:15	1188	+	655	=	1843	0	31	No
15:15 - 16:15	1215	+	569	=	1784	0	34	No
17:30 - 18:30	1090	+	660	=	1750	0	33	No
07:15 - 08:15	282	+	1424	=	1706	0	39	No
07:00 - 08:00	256	+	1449	=	1705	0	41	No
15:00 - 16:00	1116	+	529	=	1645	0	33	No
17:45 - 18:45	991	+	652	=	1643	0	28	No
07:30 - 08:30	282	+	1296	=	1578	0	41	No
06:45 - 07:45	213	+	1337	=	1550	0	37	No
18:00 - 19:00	886	+	582	=	1468	0	25	No
14:45 - 15:45	945	+	496	=	1441	0	36	No
07:45 - 08:45	297	+	1083	=	1380	0	39	No
06:30 - 07:30	186	+	1155	=	1341	0	30	No
14:30 - 15:30	852	+	480	=	1332	0	28	No
18:15 - 19:15	800	+	508	=	1308	0	22	No
14:15 - 15:15	772	+	464	=	1236	0	30	No
18:30 - 19:30	775	+	460	=	1235	0	19	No
08:00 - 09:00	317		872		1189	0	36	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2259

Study Date : 11/18/2022

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Summary

Only 0 hours meet 1A minimums.
Only 1 hours meet 1B minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **336 504**

Veh/Hr Minor = **84 42**

Major Road CSAH 52

Minor Road Rodeo Drive

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:00 - 17:00	1442	+	704	=	2146	0	28	No
16:15 - 17:15	1421	+	718	=	2139	0	28	No
15:45 - 16:45	1437	+	650	=	2087	0	25	No
16:30 - 17:30	1385	+	700	=	2085	0	32	No
16:45 - 17:45	1339	+	670	=	2009	0	33	No
15:30 - 16:30	1334	+	619	=	1953	0	28	No
17:00 - 18:00	1242	+	645	=	1887	0	33	No
17:15 - 18:15	1188	+	655	=	1843	0	31	No
15:15 - 16:15	1215	+	569	=	1784	0	34	No
17:30 - 18:30	1090	+	660	=	1750	0	33	No
07:15 - 08:15	282	+	1424	=	1706	0	39	No
07:00 - 08:00	256	+	1449	=	1705	0	41	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
11:45 - 12:45	475	+	493	=	968	0	44	Yes
16:00 - 17:00	1442	+	704	=	2146	0	28	No
16:15 - 17:15	1421	+	718	=	2139	0	28	No
15:45 - 16:45	1437	+	650	=	2087	0	25	No
16:30 - 17:30	1385	+	700	=	2085	0	32	No
16:45 - 17:45	1339	+	670	=	2009	0	33	No
15:30 - 16:30	1334	+	619	=	1953	0	28	No
17:00 - 18:00	1242	+	645	=	1887	0	33	No
17:15 - 18:15	1188	+	655	=	1843	0	31	No
15:15 - 16:15	1215	+	569	=	1784	0	34	No
17:30 - 18:30	1090	+	660	=	1750	0	33	No
07:15 - 08:15	282	+	1424	=	1706	0	39	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2259

Study Date : 11/18/2022

Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

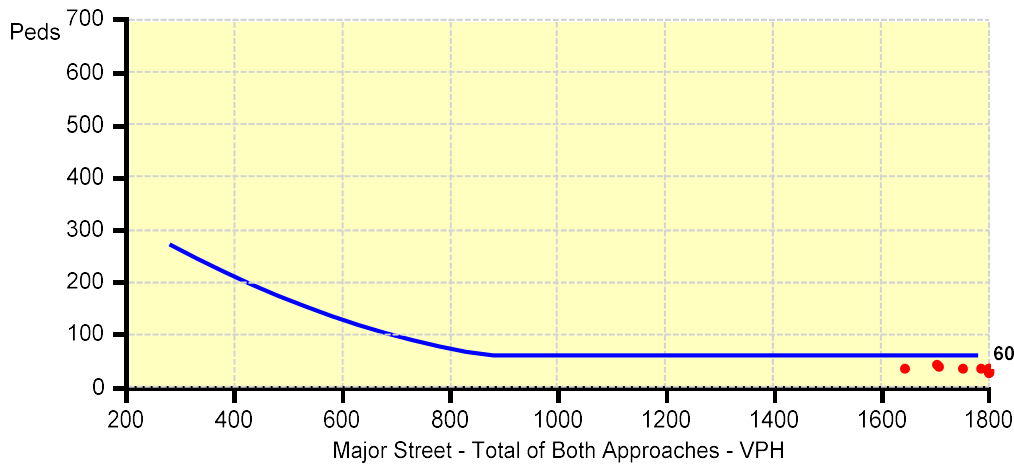
Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 52				Total	Minor Road Rodeo Drive		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	1442	+	704	=	2146	0	28	No
16:15 - 17:15	1421	+	718	=	2139	0	28	No
15:45 - 16:45	1437	+	650	=	2087	0	25	No
16:30 - 17:30	1385	+	700	=	2085	0	32	No
16:45 - 17:45	1339	+	670	=	2009	0	33	No
15:30 - 16:30	1334	+	619	=	1953	0	28	No
17:00 - 18:00	1242	+	645	=	1887	0	33	No
17:15 - 18:15	1188	+	655	=	1843	0	31	No
15:15 - 16:15	1215	+	569	=	1784	0	34	No
17:30 - 18:30	1090	+	660	=	1750	0	33	No
07:15 - 08:15	282	+	1424	=	1706	0	39	No
							41	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2259

Study Date : 11/18/2022

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 52				Total	Minor Road Rodeo Drive		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	1442	+	704	=	2146	0	28	No
16:15 - 17:15	1421	+	718	=	2139	0	28	No
15:45 - 16:45	1437	+	650	=	2087	0	25	No
16:30 - 17:30	1385	+	700	=	2085	0	32	No
16:45 - 17:45	1339	+	670	=	2009	0	33	No
15:30 - 16:30	1334	+	619	=	1953	0	28	No
17:00 - 18:00	1242	+	645	=	1887	0	33	No
17:15 - 18:15	1188	+	655	=	1843	0	31	No
15:15 - 16:15	1215	+	569	=	1784	0	34	No
17:30 - 18:30	1090	+	660	=	1750	0	33	No
07:15 - 08:15	282	+	1424	=	1706	0	39	No
							41	No

