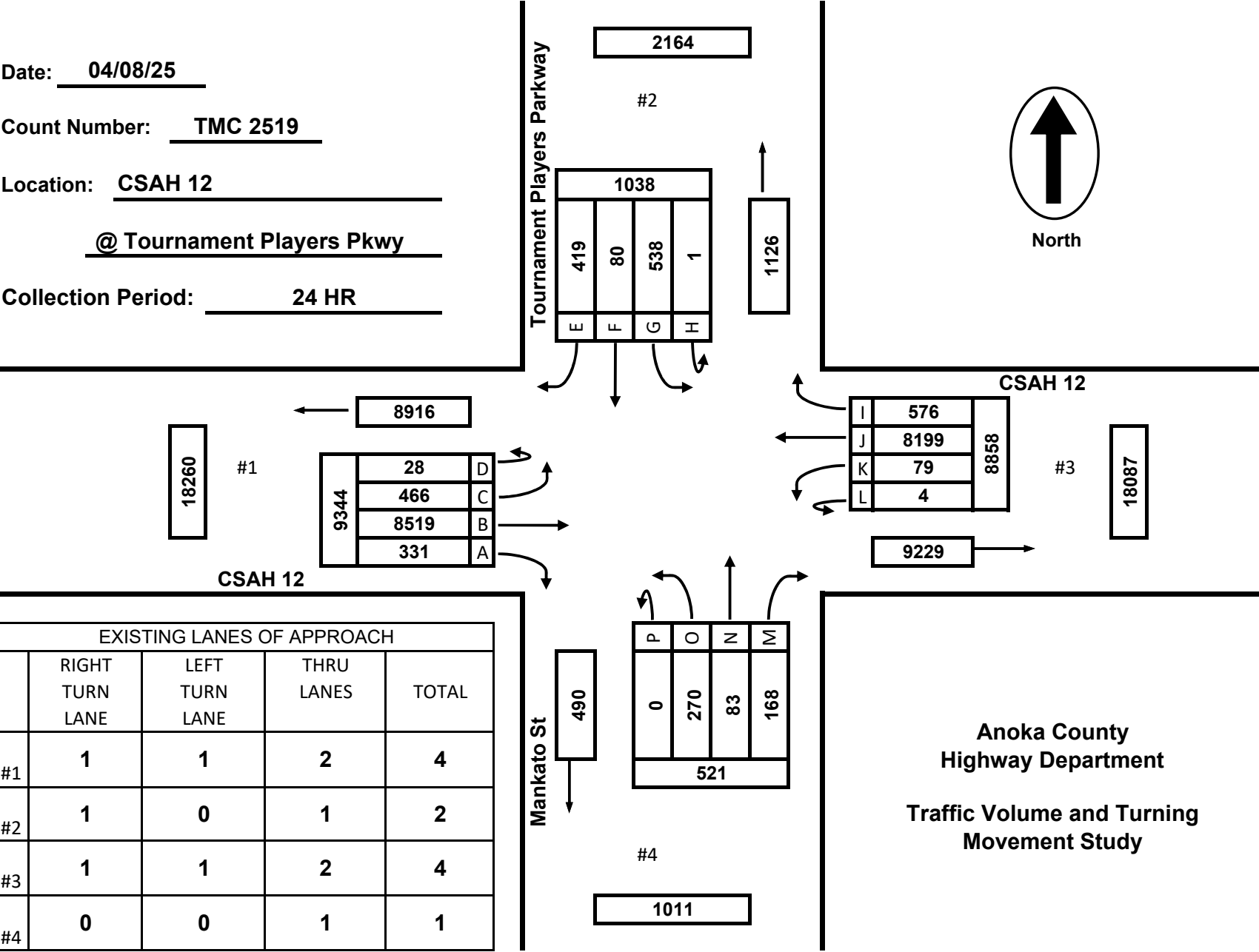


Date: 04/08/25
Count Number: TMC 2519
Location: CSAH 12
@ Tournament Players Pkwy
Collection Period: 24 HR



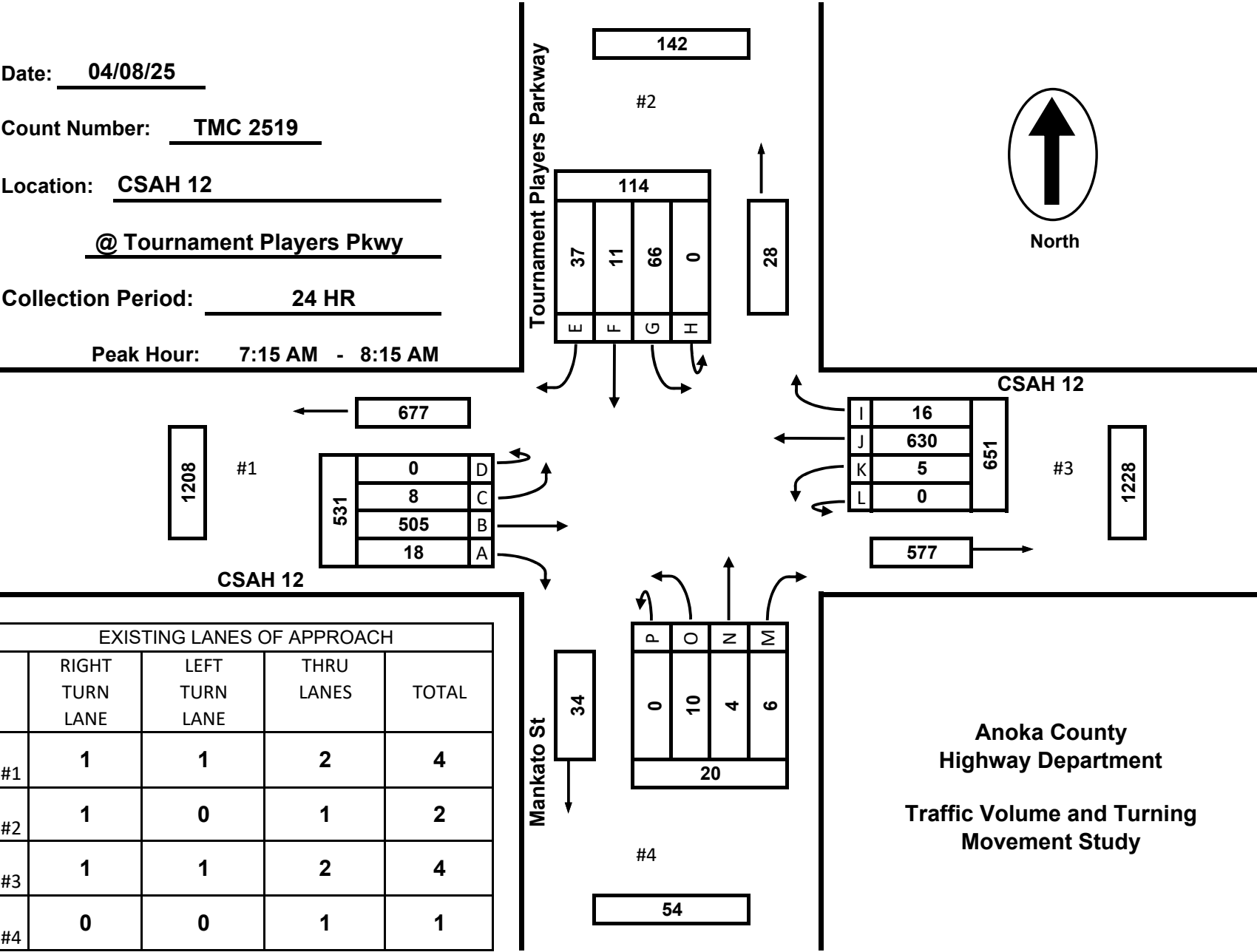
Date: 04/08/25

Count Number: TMC 2519

Location: CSAH 12
@ Tournament Players Pkwy

Collection Period: 24 HR

Peak Hour: 7:15 AM - 8:15 AM



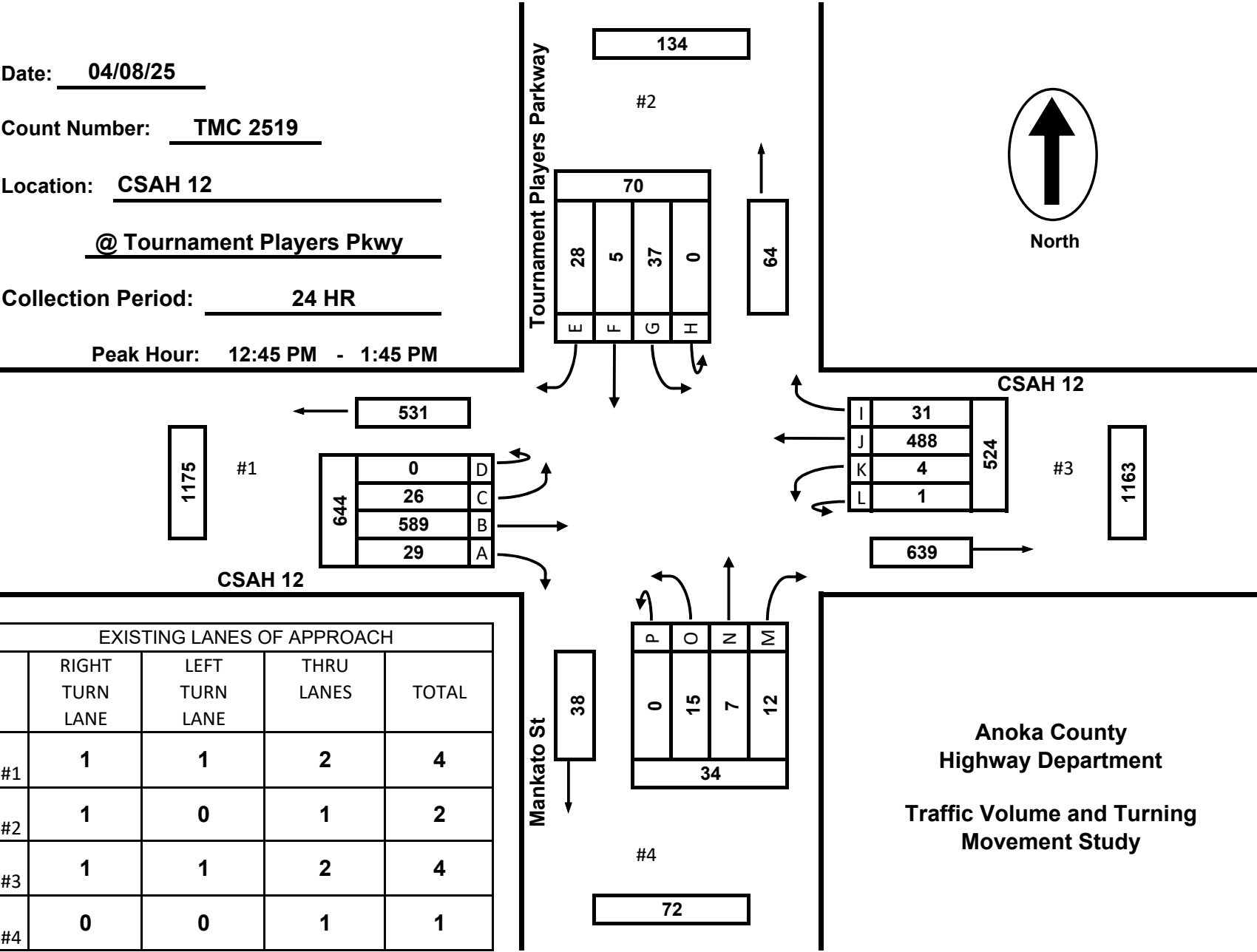
Date: 04/08/25

Count Number: TMC 2519

Location: CSAH 12
@ Tournament Players Pkwy

Collection Period: 24 HR

Peak Hour: 12:45 PM - 1:45 PM



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

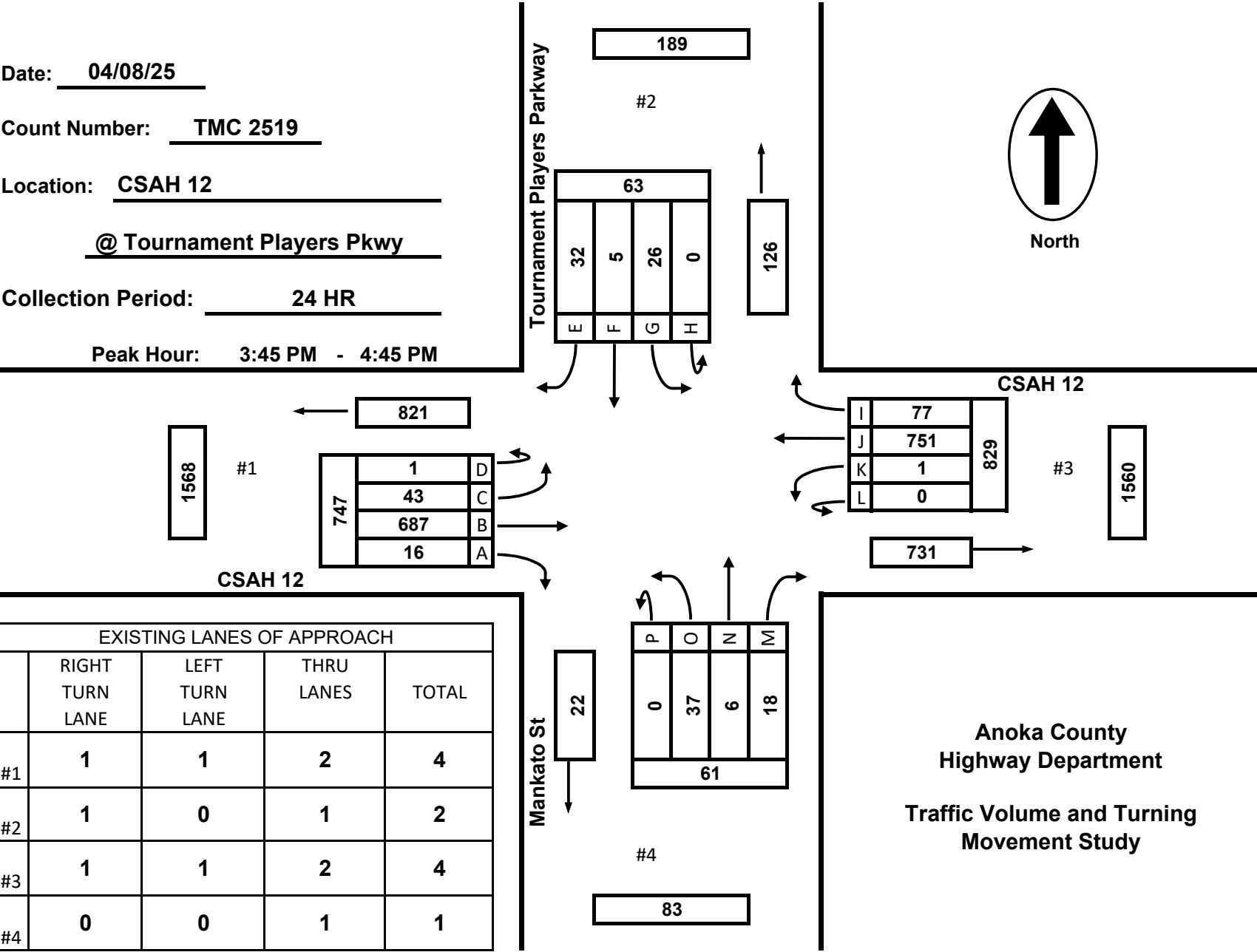
Date: 04/08/25

Count Number: TMC 2519

Location: CSAH 12
@ Tournament Players Pkwy

Collection Period: 24 HR

Peak Hour: 3:45 PM - 4:45 PM



TMC 2519 - CSAH 12 @ Tournament Players Parkway

Blaine MN

Tuesday, April 8, 2025

Time	Southbound Tournament Players Parkway						Westbound CSAH 12						Northbound Mankato St						Eastbound CSAH 12						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	1	0	0	0	1	0	0	11	1	0	12	0	0	0	0	0	0	0	1	10	0	0	11	24
12:15 AM	0	0	0	0	0	0	0	0	5	0	0	5	0	1	0	0	0	1	0	0	6	0	0	6	12
12:30 AM	0	0	0	1	0	1	0	0	6	3	0	9	0	0	0	1	0	1	0	0	5	0	0	5	16
12:45 AM	0	2	0	0	0	2	0	0	6	0	0	6	0	0	0	0	0	0	0	0	7	0	0	7	15
Hourly Total	0	3	0	1	0	4	0	0	28	4	0	32	0	1	0	1	0	2	0	1	28	0	0	29	67
1:00 AM	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	9	0	0	9	14
1:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	9	0	0	9	10
1:30 AM	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	7	0	0	7	11
1:45 AM	0	0	0	0	0	0	0	0	3	2	0	5	0	0	0	0	0	0	0	0	4	0	0	4	9
Hourly Total	0	1	0	0	0	1	0	0	12	2	0	14	0	0	0	0	0	0	0	0	29	0	0	29	44
2:00 AM	0	0	0	0	0	0	0	0	5	1	0	6	0	0	1	0	0	1	0	0	2	0	0	2	9
2:15 AM	0	1	0	0	0	1	0	0	5	1	0	6	0	0	0	0	0	0	0	2	4	1	0	7	14
2:30 AM	0	0	0	0	0	0	0	0	7	1	0	8	0	3	0	0	0	3	0	0	2	0	0	2	13
2:45 AM	0	0	1	1	0	2	0	0	2	0	0	2	0	0	1	0	0	1	0	0	2	2	0	4	9
Hourly Total	0	1	1	1	0	3	0	0	19	3	0	22	0	3	2	0	0	5	0	2	10	3	0	15	45
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	8
3:15 AM	0	1	0	0	0	1	0	0	2	1	0	3	0	0	0	0	0	0	0	0	3	0	0	3	7
3:30 AM	0	1	0	0	0	1	0	0	4	1	0	5	0	0	0	0	0	0	0	0	3	2	0	5	11
3:45 AM	0	0	0	0	0	0	0	1	5	1	0	7	0	0	0	0	0	0	0	0	6	0	0	6	13
Hourly Total	0	2	0	0	0	2	0	1	11	3	0	15	0	0	0	0	0	0	0	0	20	2	0	22	39
4:00 AM	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	15	1	0	16	21
4:15 AM	0	1	0	0	0	1	0	0	14	1	0	15	0	1	0	1	0	2	0	0	16	1	0	17	35
4:30 AM	0	3	0	0	0	3	0	0	19	0	0	19	0	1	0	1	0	2	0	0	19	6	0	25	49
4:45 AM	0	3	0	1	0	4	0	2	20	1	0	23	0	1	0	0	0	1	0	0	19	6	0	25	53
Hourly Total	0	7	0	1	0	8	0	2	58	2	0	62	0	3	0	2	0	5	0	0	69	14	0	83	158
5:00 AM	0	4	0	0	0	4	0	1	17	0	0	18	0	0	0	0	0	0	0	1	23	3	0	27	49
5:15 AM	0	6	0	0	0	6	0	0	44	1	0	45	0	0	0	0	0	0	0	0	33	3	0	36	87
5:30 AM	0	4	1	1	0	6	0	2	40	1	0	43	0	0	0	0	0	0	0	0	40	5	0	45	94
5:45 AM	0	3	0	0	0	3	0	6	43	0	0	49	0	2	0	0	0	2	0	0	39	7	0	46	100
Hourly Total	0	17	1	1	0	19	0	9	144	2	0	155	0	2	0	0	0	2	0	1	135	18	0	154	330
6:00 AM	0	10	2	3	0	15	0	0	44	1	0	45	0	0	0	0	0	0	1	0	38	5	0	44	104
6:15 AM	0	11	1	5	0	17	0	1	72	2	0	75	0	0	0	0	0	0	0	0	76	4	0	80	172
6:30 AM	0	17	1	5	0	23	0	5	70	2	0	77	0	2	0	0	0	2	0	1	88	3	0	92	194
6:45 AM	0	10	0	2	0	12	0	2	82	1	0	85	0	0	0	0	0	0	0	1	94	3	0	98	195
Hourly Total	0	48	4	15	0	67	0	8	268	6	0	282	0	2	0	0	0	2	1	2	296	15	0	314	665
7:00 AM	0	20	2	11	0	33	0	1	117	1	0	119	0	2	0	1	0	3	1	1	80	13	0	95	250
7:15 AM	0	17	3	9	0	29	0	1	154	2	0	157	0	1	1	1	0	3	0	0	121	2	0	123	312
7:30 AM	0	21	2	13	0	36	0	0	191	6	0	197	0	2	0	3	0	5	0	2	129	2	0	133	371
7:45 AM	0	14	2	4	0	20	0	2	151	5	0	158	0	1	1	1	0	3	0	4	139	9	0	152	333
Hourly Total	0	72	9	37	0	118	0	4	613	14	0	631	0	6	2	6	0	14	1	7	469	26	0	503	1266

TMC 2519 - CSAH 12 @ Tournament Players Parkway

Blaine MN

Tuesday, April 8, 2025

Time	Southbound Tournament Players Parkway						Westbound CSAH 12						Northbound Mankato St						Eastbound CSAH 12						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	14	4	11	1	29	0	2	134	3	0	139	0	6	2	1	0	9	0	2	116	5	0	123	300
8:15 AM	0	11	2	11	0	24	0	1	134	8	0	143	0	1	0	1	0	2	1	5	121	4	0	131	300
8:30 AM	0	13	1	9	0	23	0	0	105	5	0	110	0	2	2	3	0	7	0	4	102	8	0	114	254
8:45 AM	0	18	2	8	0	28	0	4	120	2	1	126	0	1	1	1	0	3	0	7	98	4	0	109	266
Hourly Total	0	56	9	39	1	104	0	7	493	18	1	518	0	10	5	6	0	21	1	18	437	21	0	477	1120
9:00 AM	0	15	1	5	0	21	1	1	110	5	0	117	0	6	3	2	0	11	0	6	102	7	0	115	264
9:15 AM	0	9	2	6	1	17	0	0	136	7	0	143	0	3	1	2	0	6	0	8	98	6	0	112	278
9:30 AM	0	10	0	7	0	17	0	4	117	10	0	131	0	2	0	4	0	6	0	3	105	9	0	117	271
9:45 AM	0	7	0	5	0	12	0	0	133	5	0	138	0	6	0	2	0	8	0	4	86	6	0	96	254
Hourly Total	0	41	3	23	1	67	1	5	496	27	0	529	0	17	4	10	0	31	0	21	391	28	0	440	1067
10:00 AM	0	5	1	6	0	12	0	0	97	1	1	98	0	5	0	3	0	8	1	5	111	3	0	120	238
10:15 AM	0	8	0	1	0	9	0	1	121	4	0	126	0	3	1	3	0	7	0	6	84	8	0	98	240
10:30 AM	0	7	0	6	0	13	0	1	116	9	0	126	0	6	1	2	0	9	0	6	103	4	0	113	261
10:45 AM	0	4	0	10	0	14	0	1	130	5	0	136	0	4	1	5	0	10	1	7	103	4	0	115	275
Hourly Total	0	24	1	23	0	48	0	3	464	19	1	486	0	18	3	13	0	34	2	24	401	19	0	446	1014
11:00 AM	0	7	1	10	0	18	0	3	116	8	0	127	0	5	1	3	0	9	0	6	99	6	0	111	265
11:15 AM	0	4	5	8	0	17	0	2	130	2	0	134	0	5	3	1	0	9	0	7	110	4	0	121	281
11:30 AM	0	6	2	8	0	16	0	0	136	5	0	141	0	4	0	3	0	7	0	4	121	10	0	135	299
11:45 AM	0	5	2	8	0	15	0	0	147	6	0	153	0	9	0	2	0	11	0	6	142	10	0	158	337
Hourly Total	0	22	10	34	0	66	0	5	529	21	0	555	0	23	4	9	0	36	0	23	472	30	0	525	1182
12:00 PM	0	4	1	7	0	12	0	1	128	6	0	135	0	7	2	6	0	15	0	6	113	9	0	128	290
12:15 PM	1	12	1	4	0	18	0	2	132	6	0	140	0	4	4	4	0	12	0	7	125	4	0	136	306
12:30 PM	0	9	3	1	0	13	0	0	153	5	0	158	0	8	8	1	1	17	0	8	111	4	0	123	311
12:45 PM	0	13	1	9	0	23	1	2	114	9	0	126	0	6	3	5	0	14	0	9	155	6	0	170	333
Hourly Total	1	38	6	21	0	66	1	5	527	26	0	559	0	25	17	16	1	58	0	30	504	23	0	557	1240
1:00 PM	0	4	2	5	0	11	0	2	113	5	0	120	0	4	2	2	0	8	0	5	132	11	0	148	287
1:15 PM	0	11	1	9	1	21	0	0	131	7	0	138	0	3	2	4	0	9	0	5	149	3	0	157	325
1:30 PM	0	9	1	5	0	15	0	0	130	10	0	140	0	2	0	1	0	3	0	7	153	9	0	169	327
1:45 PM	0	6	1	4	0	11	0	2	138	9	0	149	0	5	1	0	0	6	0	6	124	9	0	139	305
Hourly Total	0	30	5	23	1	58	0	4	512	31	0	547	0	14	5	7	0	26	0	23	558	32	0	613	1244
2:00 PM	0	7	0	9	1	16	0	0	141	11	0	152	0	6	1	1	0	8	0	9	148	3	0	160	336
2:15 PM	0	9	1	7	0	17	0	2	111	5	0	118	0	4	2	6	0	12	0	6	139	11	0	156	303
2:30 PM	0	10	2	9	0	21	0	2	153	10	0	165	0	6	1	6	0	13	0	7	158	5	0	170	369
2:45 PM	0	8	0	5	1	13	1	0	149	16	0	166	0	8	2	7	0	17	0	6	157	7	0	170	366
Hourly Total	0	34	3	30	2	67	1	4	554	42	0	601	0	24	6	20	0	50	0	28	602	26	0	656	1374
3:00 PM	0	8	1	8	0	17	0	1	188	12	0	201	0	11	1	5	0	17	0	18	136	8	0	162	397
3:15 PM	0	5	1	7	0	13	0	0	152	11	0	163	0	11	1	2	0	14	0	8	173	3	0	184	374
3:30 PM	0	6	0	12	1	18	0	3	166	9	0	178	0	13	2	7	0	22	0	15	172	8	0	195	413
3:45 PM	0	7	2	13	0	22	0	1	183	14	0	198	0	8	2	2	0	12	0	10	181	8	0	199	431
Hourly Total	0	26	4	40	1	70	0	5	689	46	0	740	0	43	6	16	0	65	0	51	662	27	0	740	1615

TMC 2519 - CSAH 12 @ Tournament Players Parkway
Blaine MN
Tuesday, April 8, 2025

Time	Southbound Tournament Players Parkway						Westbound CSAH 12						Northbound Mankato St						Eastbound CSAH 12						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	7	0	7	0	14	0	0	197	20	0	217	0	12	1	3	0	16	0	12	163	4	0	179	426
4:15 PM	0	7	3	3	0	13	0	0	193	16	0	209	0	5	1	1	0	7	1	8	185	3	0	197	426
4:30 PM	0	5	0	9	0	14	0	0	178	27	0	205	0	12	2	12	1	26	0	13	158	1	0	172	417
4:45 PM	0	6	1	13	0	20	0	0	158	15	0	173	0	4	0	1	0	5	0	5	188	3	0	196	394
Hourly Total	0	25	4	32	0	61	0	0	726	78	0	804	0	33	4	17	1	54	1	38	694	11	0	744	1663
5:00 PM	0	5	2	9	0	16	0	3	170	22	0	195	0	8	0	10	1	18	1	10	209	3	0	223	452
5:15 PM	0	10	2	8	0	20	0	1	185	17	0	203	0	4	1	1	0	6	0	10	189	6	0	185	414
5:30 PM	0	8	0	11	0	19	0	2	142	22	0	166	0	5	2	6	1	13	4	15	189	4	0	212	410
5:45 PM	0	6	2	10	1	18	0	2	151	14	0	167	0	4	1	5	0	10	1	7	156	2	0	166	361
Hourly Total	0	29	6	38	1	73	0	8	648	75	0	731	0	21	4	22	2	47	6	42	723	15	0	786	1637
6:00 PM	0	2	3	7	3	12	0	2	141	12	0	155	0	5	2	10	0	17	0	18	179	1	0	198	382
6:15 PM	0	4	1	11	0	16	0	1	144	17	0	162	0	6	1	1	1	8	0	18	151	2	0	171	357
6:30 PM	0	4	1	10	0	15	0	1	118	11	0	130	0	4	2	3	2	9	0	10	147	4	0	161	315
6:45 PM	0	4	0	3	0	7	0	0	111	12	0	123	0	1	0	2	1	3	4	12	158	3	0	177	310
Hourly Total	0	14	5	31	3	50	0	4	514	52	0	570	0	16	5	16	4	37	4	58	635	10	0	707	1364
7:00 PM	0	6	2	2	0	10	0	0	100	8	0	108	0	1	0	1	0	2	6	17	170	0	0	193	313
7:15 PM	0	3	0	3	1	6	0	1	90	9	0	100	0	1	1	0	2	2	2	4	128	2	0	136	244
7:30 PM	0	6	1	3	0	10	0	1	99	11	0	111	0	2	1	0	3	3	0	11	136	5	0	152	276
7:45 PM	0	0	1	4	0	5	0	0	87	6	0	93	0	0	1	0	2	1	0	7	108	0	0	115	214
Hourly Total	0	15	4	12	1	31	0	2	376	34	0	412	0	4	3	1	7	8	8	39	542	7	0	596	1047
8:00 PM	0	1	2	1	0	4	0	0	89	6	0	95	0	0	2	1	0	3	0	9	115	0	0	124	226
8:15 PM	0	2	0	3	0	5	0	1	65	9	0	75	0	1	3	1	0	5	1	6	103	1	0	111	196
8:30 PM	0	2	0	4	0	6	0	0	50	8	0	58	0	1	0	0	0	1	2	5	111	0	0	118	183
8:45 PM	0	3	0	1	0	4	0	0	33	7	0	40	0	1	1	1	1	3	0	6	84	0	0	90	137
Hourly Total	0	8	2	9	0	19	0	1	237	30	0	268	0	3	6	3	1	12	3	26	413	1	0	443	742
9:00 PM	0	8	0	2	0	10	0	2	47	4	0	53	0	0	1	2	0	3	0	6	73	0	0	79	145
9:15 PM	0	3	2	1	0	6	0	0	39	4	0	43	0	0	1	1	0	2	0	7	70	1	0	78	129
9:30 PM	0	2	0	0	0	2	0	0	39	4	0	43	0	1	4	0	1	5	0	6	50	0	0	56	106
9:45 PM	0	2	0	2	0	4	1	0	23	3	0	27	0	0	0	0	0	0	1	2	52	0	0	55	86
Hourly Total	0	15	2	5	0	22	1	2	148	15	0	166	0	1	6	3	1	10	1	21	245	1	0	268	466
10:00 PM	0	4	1	0	0	5	0	0	23	8	0	31	0	0	0	0	0	0	0	1	36	2	0	39	75
10:15 PM	0	1	0	0	0	1	0	0	16	1	0	17	0	0	0	0	0	0	0	3	32	0	0	35	53
10:30 PM	0	1	0	0	0	1	0	0	16	5	0	21	0	0	0	0	0	0	0	1	26	0	0	27	49
10:45 PM	0	0	0	1	0	1	0	0	18	1	0	19	0	1	0	0	0	1	0	2	32	0	0	34	55
Hourly Total	0	6	1	1	0	8	0	0	73	15	0	88	0	1	0	0	0	1	0	7	126	2	0	135	232
11:00 PM	0	0	0	1	0	1	0	0	15	2	0	17	0	0	1	0	0	1	0	1	15	0	0	16	35
11:15 PM	0	3	0	1	0	4	0	0	19	2	0	21	0	0	0	0	0	0	0	1	23	0	0	24	49
11:30 PM	0	1	0	0	0	1	0	0	16	3	0	19	0	0	0	0	0	0	0	1	12	0	0	13	33
11:45 PM	0	0	0	0	0	0	0	0	10	4	0	14	0	0	0	0	0	0	0	1	8	0	0	9	23
Hourly Total	0	4	0	2	0	6	0	0	60	11	0	71	0	0	1	0	0	1	0	4	58	0	0	62	140
DAILY TOTAL	1	538	80	419	11	1038	4	79	8199	576	2	8858	0	270	83	168	17	521	28	466	8519	331	0	9344	19761
Cars	1	528	77	416	9	1022	4	77	8101	572	2	8754	0	257	77	161	14	495	28	458	8405	312	0	9203	19474
Heavy Vehicles	0	10	3	3	2	16	0	2	98	4	0	104	0	13	6	7	3	26	0	8	114	19	0	141	287
Heavy Vehicle %	0.00%	1.86%	3.75%	0.72%	18.18%	1.54%	0.00%	2.53%	1.20%	0.69%	0.00%	1.17%	0.00%	4.81%	7.23%	4.17%	17.65%	4.99%	0.00%	1.72%	1.34%	5.74%	0.00%	1.51%	1.45%

TMC 2519 - CSAH 12 @ Tournament Players Parkway

Blaine MN

Tuesday, April 8, 2025

AM Peak Hour (00:00 to 10:00)

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	
7:15 AM	0	17	3	9	0	29	0	1	154	2	0	157	0	1	1	1	0	3	0	0	121	2	0	123	312
7:30 AM	0	21	2	13	0	36	0	0	191	6	0	197	0	2	0	3	0	5	0	2	129	2	0	133	371
7:45 AM	0	14	2	4	0	20	0	2	151	5	0	158	0	1	1	1	0	3	0	4	139	9	0	152	333
8:00 AM	0	14	4	11	1	29	0	2	134	3	0	139	0	6	2	1	0	9	0	2	116	5	0	123	300
Peak Hour Total	0	66	11	37	1	114	0	5	630	16	0	651	0	10	4	6	0	20	0	8	505	18	0	531	1316
Peak Hour Heavy Vehicles	0	0	0	1	0	1	0	0	6	0	0	6	0	2	0	1	0	3	0	1	11	0	0	12	22
Peak Hour Heavy Vehicles %	0.00%	0.00%	0.00%	2.70%	0.00%	0.88%	0.00%	0.00%	0.95%	0.00%	0.00%	0.92%	0.00%	20.00%	0.00%	16.67%	0.00%	15.00%	0.00%	12.50%	2.18%	0.00%	0.00%	2.26%	1.67%
PHF	0.000	0.786	0.688	0.712	0.250	0.792	0.000	0.625	0.825	0.667	0.000	0.826	0.000	0.417	0.500	0.500	0.000	0.556	0.000	0.500	0.908	0.500	0.000	0.873	0.887

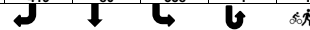
Mid Peak Hour (10:00 - 14:00)

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	
12:45 PM	0	13	1	9	0	23	1	2	114	9	0	126	0	6	3	5	0	14	0	9	155	6	0	170	333
1:00 PM	0	4	2	5	0	11	0	2	113	5	0	120	0	4	2	2	0	8	0	5	132	11	0	148	287
1:15 PM	0	11	1	9	1	21	0	0	131	7	0	138	0	3	2	4	0	9	0	5	149	3	0	157	325
1:30 PM	0	9	1	5	0	15	0	0	130	10	0	140	0	2	0	1	0	3	0	7	153	9	0	169	327
Peak Hour Total	0	37	5	28	1	70	1	4	488	31	0	524	0	15	7	12	0	34	0	26	589	29	0	644	1272
Peak Hour Heavy Vehicles	0	0	0	0	0	0	0	0	11	1	0	12	0	0	1	1	0	2	0	0	13	2	0	15	29
Peak Hour Heavy Vehicles %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.25%	3.23%	0.00%	2.29%	0.00%	0.00%	14.29%	8.33%	0.00%	5.88%	0.00%	0.00%	2.21%	6.90%	0.00%	2.33%	2.28%
PHF	0.000	0.712	0.625	0.778	0.250	0.761	0.250	0.500	0.931	0.775	0.000	0.936	0.000	0.625	0.583	0.600	0.000	0.607	0.000	0.722	0.950	0.659	0.000	0.947	0.955

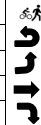
PM Peak Hour (14:00 - 24:00)

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	
3:45 PM	0	7	2	13	0	22	0	1	183	14	0	198	0	8	2	2	0	12	0	10	181	8	0	199	431
4:00 PM	0	7	0	7	0	14	0	0	197	20	0	217	0	12	1	3	0	16	0	12	163	4	0	179	426
4:15 PM	0	7	3	3	0	13	0	0	193	16	0	209	0	5	1	1	0	7	1	8	185	3	0	197	426
4:30 PM	0	5	0	9	0	14	0	0	178	27	0	205	0	12	2	12	1	26	0	13	158	1	0	172	417
Peak Hour Total	0	26	5	32	0	63	0	1	751	77	0	829	0	37	6	18	1	61	1	43	687	16	0	747	1700
Peak Hour Heavy Vehicles	0	2	1	0	0	3	0	0	13	1	0	14	0	1	0	0	0	1	0	2	6	1	0	9	27
Peak Hour Heavy Vehicles %	0.00%	7.69%	20.00%	0.00%	0.00%	4.76%	0.00%	0.00%	1.73%	1.30%	0.00%	1.69%	0.00%	2.70%	0.00%	0.00%	0.00%	1.64%	0.00%	4.65%	0.87%	6.25%	0.00%	1.20%	1.59%
PHF	0.000	0.929	0.417	0.615	0.000	0.716	0.000	0.250	0.953	0.713	0.000	0.955	0.000	0.771	0.750	0.375	0.250	0.587	0.250	0.827	0.928	0.500	0.000	0.938	0.986

Total Vehicles On Leg			2164		
Vehicles Entering Intersection 1038			Vehicles Exiting Intersection 1126		
Southbound					
Cars	416	77	528	1	9
Heavy	3	3	10	0	2
Total	419	80	538	1	11



Total Vehicles on Leg 18260	Vehicles Entering Intersection 9344	Eastbound	Cars	Heavy	Total
	Exiting Intersection 8916		0	0	0
			28	0	28
			458	8	466
			8405	114	8519
			312	19	331



Daily Volumes

Cars	Heavy	Total	Westbound	Entering Intersection 8858	Total Vehicles on Leg 18087
572	4	576			
8101	98	8199			
77	2	79		Exiting Intersection 9229	
4	0	4			
2	0	2			

Northbound					
Cars	14	0	257	77	161
Heavy	3	0	13	6	7
Total	17	0	270	83	168
Vehicles Entering Intersection 521			Vehicles Exiting Intersection 490		
Total Vehicles On Leg			1011		



TMC 2519 - CSAH 12 @ Tournament Players Parkway

Blaine MN

Tuesday, April 8, 2025

Time	Southbound Heavy Tournament Players Parkway						Westbound Heavy CSAH 12						Northbound Heavy Mankato St						Eastbound Heavy CSAH 12						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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
2:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
2:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	1	0	0	1	3
4:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	2	0	0	2	4
5:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	4
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	2
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	3	0	0	3	4
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	4
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	3	0	0	3	4
7:30 AM	0	0	0	1	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	5	8
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	2
Hourly 'Heavy Vehicles'	0	0	0	1	0	1	0	0	2	0	0	2	0	0	0	1	0	1	0	1	12	1	0	14	18

TMC 2519 - CSAH 12 @ Tournament Players Parkway

Blaine MN

Tuesday, April 8, 2025

	Southbound Heavy Tournament Players Parkway						Westbound Heavy CSAH 12						Northbound Heavy Mankato St						Eastbound Heavy CSAH 12						VEHICLE 'Heavy Vehicles'	
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'		
8:00 AM	0	0	0	0	0	0	0	0	4	0	0	4	0	2	0	0	0	0	2	0	0	2	0	0	2	8
8:15 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	1	4
8:30 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	2	4
8:45 AM	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	2	4
Hourly 'Heavy Vehicles'	0	0	0	1	0	1	0	0	10	0	0	10	0	2	0	0	0	0	2	0	1	6	0	0	7	20
9:00 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2	0	0	0	2	0	0	1	0	0	1	4
9:15 AM	0	0	1	0	1	1	0	0	3	0	0	3	0	2	0	0	0	0	2	0	0	1	1	0	2	8
9:30 AM	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	1	0	0	1	0	0	2	1	0	3	8
9:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	2	0	0	2	2	0	0	4	7
Hourly 'Heavy Vehicles'	0	0	1	0	1	1	0	2	7	0	0	9	0	4	2	1	0	7	0	0	6	4	0	0	10	27
10:00 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	6	0	0	6	8
10:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	1	0	0	4	5
10:30 AM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	3	1	0	0	4	8
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	0	2	3
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	1	0	1	0	1	0	13	2	0	16	24
11:00 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	3	1	0	4	7
11:15 AM	0	1	0	1	0	2	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	1	0	1	7
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	5	1	0	0	6	7
11:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	4	0	0	4	5
Hourly 'Heavy Vehicles'	0	1	0	1	0	2	0	0	8	0	0	8	0	1	0	0	0	0	1	0	0	12	3	0	15	26
12:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	0	0	2	0	0	4	0	0	4	7
12:15 PM	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	2	5
12:30 PM	0	0	0	0	0	0	0	0	4	1	0	5	0	0	1	0	0	1	0	0	1	1	0	0	2	8
12:45 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	1	0	1	0	0	4	0	0	0	4	7
Hourly 'Heavy Vehicles'	0	1	0	0	0	1	0	0	9	1	0	10	0	1	1	2	0	4	0	0	11	1	0	0	12	27
1:00 PM	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	3	1	0	4	10
1:15 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	0	1	0	0	4	1	0	0	5	8
1:30 PM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	2	0	0	0	2	4
1:45 PM	0	0	1	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	3	0	0	4	8
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	12	1	0	13	0	0	1	0	0	1	0	1	12	2	0	0	15	30
2:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	2
2:15 PM	0	2	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	2	0	3	6
2:30 PM	0	0	0	0	0	0	0	0	5	0	0	5	0	0	1	0	0	1	0	0	5	1	0	0	6	12
2:45 PM	0	2	0	0	1	2	0	0	1	0	0	1	0	2	0	1	0	3	0	1	7	0	0	0	8	14
Hourly 'Heavy Vehicles'	0	4	0	0	1	4	0	0	8	0	0	8	0	2	2	1	0	5	0	1	13	3	0	0	17	34
3:00 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	1	0	0	0	1	0	0	2	1	0	0	3	8
3:15 PM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	2	1	0	0	3	5
3:30 PM	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	7	0	0	8	12
3:45 PM	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	0	5	7
Hourly 'Heavy Vehicles'	0	2	1	0	0	3	0	0	8	1	0	9	0	1	0	0	0	1	0	2	14	3	0	0	19	32

TMC 2519 - CSAH 12 @ Tournament Players Parkway

Blaine MN

Tuesday, April 8, 2025

Time	Southbound Heavy Tournament Players Parkway						Westbound Heavy CSAH 12						Northbound Heavy Mankato St						Eastbound Heavy CSAH 12						VEHICLE 'Heavy Vehicles'	
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'		
4:00 PM	0	0	0	0	0	0	0	0	5	1	0	6	0	1	0	0	0	0	1	0	0	2	0	0	2	9
4:15 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	
4:30 PM	0	1	0	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	0	0	1	1	0	0	7	
4:45 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	3	
Hourly 'Heavy Vehicles'	0	1	0	0	0	1	0	0	15	1	0	16	0	1	0	0	0	0	1	0	1	4	0	0	5	23
5:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	2	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:30 PM	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	
5:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	1	5
6:00 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	3	
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	1	0	0	0	0	4	0	0	4	6
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DAILY 'Heavy Vehicles'	0	10	3	3	2	16	0	2	98	4	0	104	0	13	6	7	3	26	0	8	114	19	0	141	287	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2519

Study Date : 04/21/2025

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 12

Number of Lanes : 2+

Total Approach Volume: 9,344

Westbound: CSAH 12

Number of Lanes : 2+

Total Approach Volume: 8,858

Minor Street Approaches

Northbound: Mankato St

Number of Lanes : 1

Total Approach Volume: 521

Southbound: Tournament Players Parkway

Number of Lanes : 1

Total Approach Volume: 1,038

Warrant Summary (Rural Values Apply)

Warrant 1 - Eight Hour Vehicular Volumes.....Satisfied

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

Required volumes reached for 1 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Satisfied

Required volumes reached for 12 hours, 8 are needed

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

Required 1A volumes reached for 3 hours, 8 are needed

Required 1B volumes reached for 13 hours, 8 are needed

Warrant 2 - Four Hour Volumes.....Satisfied

Number of hours (11) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

Warrant 3A - Peak Hour Delay.....Satisfied

Number of one hour periods (5) volumes exceed minimum >= required (1). Delay data not evaluated.

Warrant 3B - Peak Hour Volumes.....Satisfied

Volumes exceed minimums for at least 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 2519

Study Date : 04/21/2025

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 1 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**

Major Road						Minor Road		
CSAH 12						Mankato St		
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?
06:45 - 07:45	449	+	558	=	1007	11	110	Yes
15:45 - 16:45	747	+	829	=	1576	61	63	No
15:30 - 16:30	770	+	802	=	1572	57	67	No
16:15 - 17:15	788	+	782	=	1570	56	63	No
16:45 - 17:45	816	+	737	=	1553	42	75	No
16:30 - 17:30	776	+	776	=	1552	55	70	No
16:00 - 17:00	744	+	804	=	1548	54	61	No
17:00 - 18:00	786	+	731	=	1517	47	73	No
15:15 - 16:15	757	+	756	=	1513	64	67	No
15:00 - 16:00	740	+	740	=	1480	65	70	No
17:15 - 18:15	761	+	691	=	1452	46	69	No
14:45 - 15:45	711	+	708	=	1419	70	61	No
17:30 - 18:30	747	+	650	=	1397	48	65	No
14:30 - 15:30	686	+	695	=	1381	61	64	No
17:45 - 18:45	696	+	614	=	1310	44	61	No
14:15 - 15:15	658	+	650	=	1308	59	68	No
18:00 - 19:00	707	+	570	=	1277	37	50	No
14:00 - 15:00	656	+	601	=	1257	50	67	No
18:15 - 19:15	702	+	523	=	1225	22	48	No
13:45 - 14:45	625	+	584	=	1209	39	65	No
13:15 - 14:15	625	+	579	=	1204	26	63	No
13:30 - 14:30	624	+	559	=	1183	29	59	No
12:45 - 13:45	644	+	524	=	1168	34	70	No
13:00 - 14:00	613	+	547	=	1160	26	58	No
12:30 - 13:30	598		542		1140	48	68	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2519

Study Date : 04/21/2025

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

12 one hour periods meet minimums.
Warrant IS 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**

Major Road						Minor Road			
CSAH 12						Mankato St			
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?	
16:15 - 17:15	788	+	782	=	1570	56	63	Yes	
15:15 - 16:15	757	+	756	=	1513	64	67	Yes	
17:15 - 18:15	761	+	691	=	1452	46	69	Yes	
14:15 - 15:15	658	+	650	=	1308	59	68	Yes	
13:15 - 14:15	625	+	579	=	1204	26	63	Yes	
07:15 - 08:15	531	+	651	=	1182	20	114	Yes	
12:15 - 13:15	577	+	544	=	1121	51	65	Yes	
11:15 - 12:15	542	+	563	=	1105	42	60	Yes	
08:15 - 09:15	469	+	496	=	965	23	96	Yes	
09:15 - 10:15	445	+	510	=	955	28	58	Yes	
10:15 - 11:15	437	+	515	=	952	35	54	Yes	
06:15 - 07:15	365	+	356	=	721	5	85	Yes	
18:15 - 19:15	702	+	523	=	1225	22	48	No	
18:30 - 19:30	667	+	461	=	1128	16	38	No	
18:45 - 19:45	658	+	442	=	1100	10	33	No	
19:00 - 20:00	596	+	412	=	1008	8	31	No	
19:15 - 20:15	527	+	399	=	926	9	25	No	
19:30 - 20:30	502	+	374	=	876	12	24	No	
19:45 - 20:45	468	+	321	=	789	10	20	No	
20:00 - 21:00	443	+	268	=	711	12	19	No	
20:15 - 21:15	398	+	226	=	624	12	25	No	
06:00 - 07:00	314	+	282	=	596	2	67	No	
20:30 - 21:30	365	+	194	=	559	9	26	No	
05:45 - 06:45	262	+	246	=	508	4	58	No	
20:45 - 21:45	303		179		482	13	22	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2519

Study Date : 04/21/2025

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 3 hours meet 1A minimums.
13 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						Minor Road				
CSAH 12						Mankato St				
Time	Major EB	+	Major WB	=	Total	Minor NB		Minor SB		Met1A?
07:15 - 08:15	531	+	651	=	1182	20		114		Yes
08:15 - 09:15	469	+	496	=	965	23		96		Yes
06:15 - 07:15	365	+	356	=	721	5		85		Yes
15:45 - 16:45	747	+	829	=	1576	61		63		No
15:30 - 16:30	770	+	802	=	1572	57		67		No
16:15 - 17:15	788	+	782	=	1570	56		63		No
16:45 - 17:45	816	+	737	=	1553	42		75		No
16:30 - 17:30	776	+	776	=	1552	55		70		No
16:00 - 17:00	744	+	804	=	1548	54		61		No
17:00 - 18:00	786	+	731	=	1517	47		73		No
15:15 - 16:15	757	+	756	=	1513	64		67		No
15:00 - 16:00	740		740		1480	65		70		No

Time	Major EB	+	Major WB	=	Total	Minor NB		Minor SB		Met1B?
15:45 - 16:45	747	+	829	=	1576	61		63		Yes
16:45 - 17:45	816	+	737	=	1553	42		75		Yes
14:45 - 15:45	711	+	708	=	1419	70		61		Yes
17:45 - 18:45	696	+	614	=	1310	44		61		Yes
13:45 - 14:45	625	+	584	=	1209	39		65		Yes
12:45 - 13:45	644	+	524	=	1168	34		70		Yes
11:45 - 12:45	545	+	586	=	1131	55		58		Yes
07:45 - 08:45	520	+	550	=	1070	21		96		Yes
10:45 - 11:45	482	+	538	=	1020	35		65		Yes
06:45 - 07:45	449	+	558	=	1007	11		110		Yes
08:45 - 09:45	453	+	517	=	970	26		83		Yes
09:45 - 10:45	427		488		915	32		46		Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2519

Study Date : 04/21/2025

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.

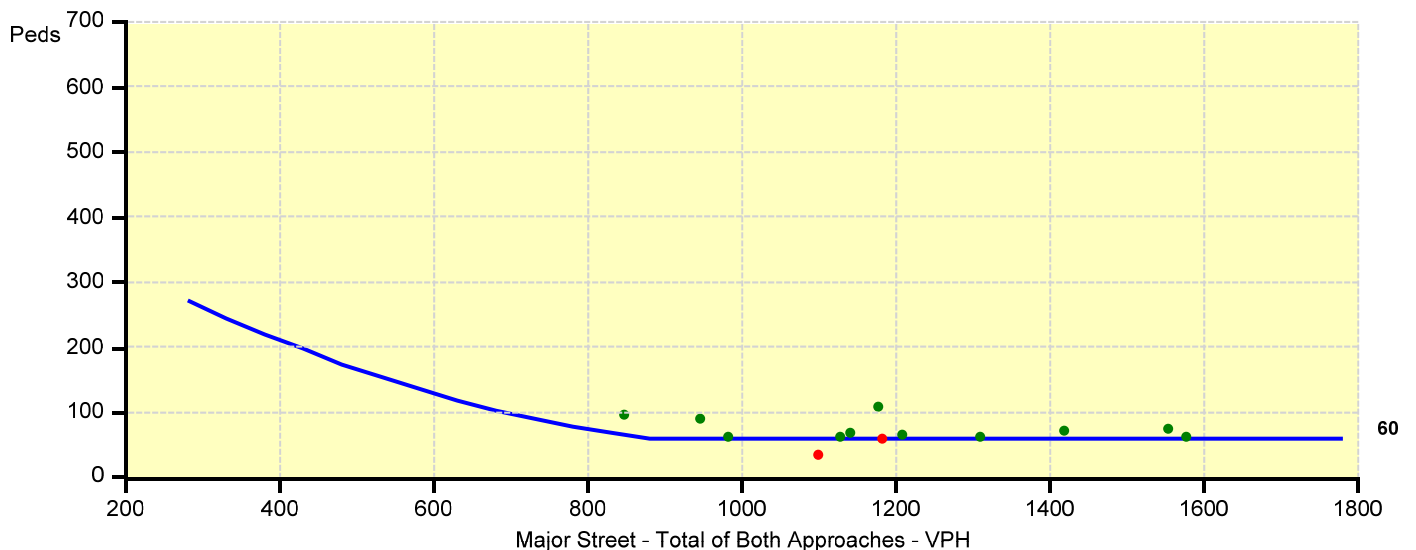
Summary

11 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Major Road						Minor Road		
CSAH 12						Mankato St		
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?
15:45 - 16:45	747	+	829	=	1576	61	63	Yes
16:45 - 17:45	816	+	737	=	1553	42	75	Yes
14:45 - 15:45	711	+	708	=	1419	70	61	Yes
17:45 - 18:45	696	+	614	=	1310	44	61	Yes
13:45 - 14:45	625	+	584	=	1209	39	65	Yes
07:30 - 08:30	539	+	637	=	1176	19	109	Yes
12:30 - 13:30	598	+	542	=	1140	48	68	Yes
11:30 - 12:30	557	+	569	=	1126	45	61	Yes
10:30 - 11:30	460	+	523	=	983	37	62	Yes
08:30 - 09:30	450	+	496	=	946	27	89	Yes
06:30 - 07:30	408	+	438	=	846	8	97	Yes
13:30 - 14:30	624		559		1183	29	59	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2519

Study Date : 04/21/2025

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.

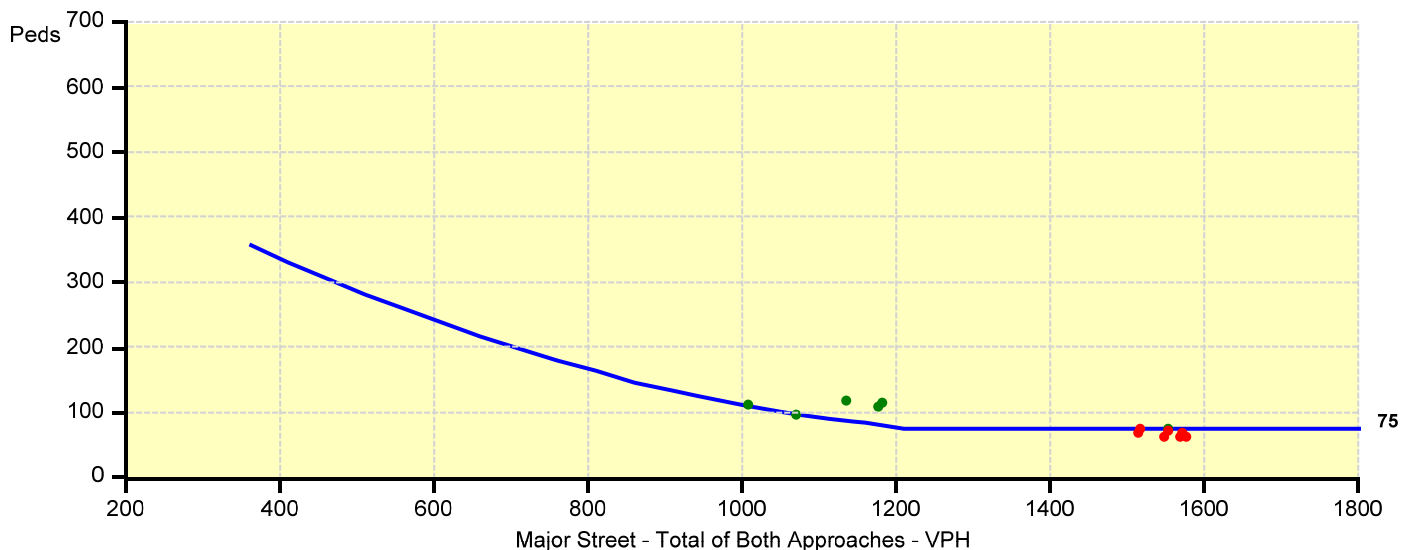
Summary

6 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Major Road CSAH 12						Minor Road Mankato St		
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?
16:45 - 17:45	816	+	737	=	1553	42	75	Yes
07:15 - 08:15	531	+	651	=	1182	20	114	Yes
07:30 - 08:30	539	+	637	=	1176	19	109	Yes
07:00 - 08:00	503	+	631	=	1134	14	118	Yes
07:45 - 08:45	520	+	550	=	1070	21	96	Yes
06:45 - 07:45	449	+	558	=	1007	11	110	Yes
15:45 - 16:45	747	+	829	=	1576	61	63	No
15:30 - 16:30	770	+	802	=	1572	57	67	No
16:15 - 17:15	788	+	782	=	1570	56	63	No
16:30 - 17:30	776	+	776	=	1552	55	70	No
16:00 - 17:00	744	+	804	=	1548	54	61	No
17:00 - 18:00	786	+	731	=	1517	47	73	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2519

Study Date : 04/21/2025

Multiway Stop Warrants - Summary

Major Street Approaches

Eastbound: CSAH 12

Number of Lanes : 2+

Total Approach Volume: 9,344

Westbound: CSAH 12

Number of Lanes : 2+

Total Approach Volume: 8,858

Minor Street Approaches

Northbound: Mankato St

Number of Lanes : 1

Total Approach Volume: 521

Southbound: Tournament Players Parkway

Number of Lanes : 1

Total Approach Volume: 1,038

Warrant Summary (Rural Values Apply)

Criteria A - Interim Measure..... **Not Evaluated**
If traffic signals are justified, stop signs can be installed as an interim measure.

Criteria B - Crash Experience..... **Not Satisfied**
Number of crashes (-1) is less than minimum required (5).

Criteria C - Minimum Volumes and Delays..... **Not Satisfied**
Average of 8 highest hours is less than volume criteria.

Criteria D - 80% of Volumes, Delays, and Crashes..... **Not Satisfied**
Number of crashes (-1) is less than minimum required (4).
Average of 8 highest hours is less than volume criteria.

Criteria C Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
15:45 - 16:45	1576	1318.5	130	120.3	210	140	No
16:45 - 17:45	1553		124				
14:45 - 15:45	1419		131				
17:45 - 18:45	1310		118				
07:15 - 08:15	1182		134				
13:45 - 14:45	1209		104				
12:45 - 13:45	1168		104				
11:45 - 12:45	1131		117				
18:45 - 19:45	1100		64				
10:45 - 11:45	1020		100				
08:15 - 09:15	965		119				
09:15 - 10:15	955		86				

Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
15:45 - 16:45	1576	1318.5	130	120.3	240	160	No
16:45 - 17:45	1553		124				
14:45 - 15:45	1419		131				
17:45 - 18:45	1310		118				
07:15 - 08:15	1182		134				
13:45 - 14:45	1209		104				
12:45 - 13:45	1168		104				
11:45 - 12:45	1131		117				
18:45 - 19:45	1100		64				
10:45 - 11:45	1020		100				
08:15 - 09:15	965		119				
09:15 - 10:15	955		86				