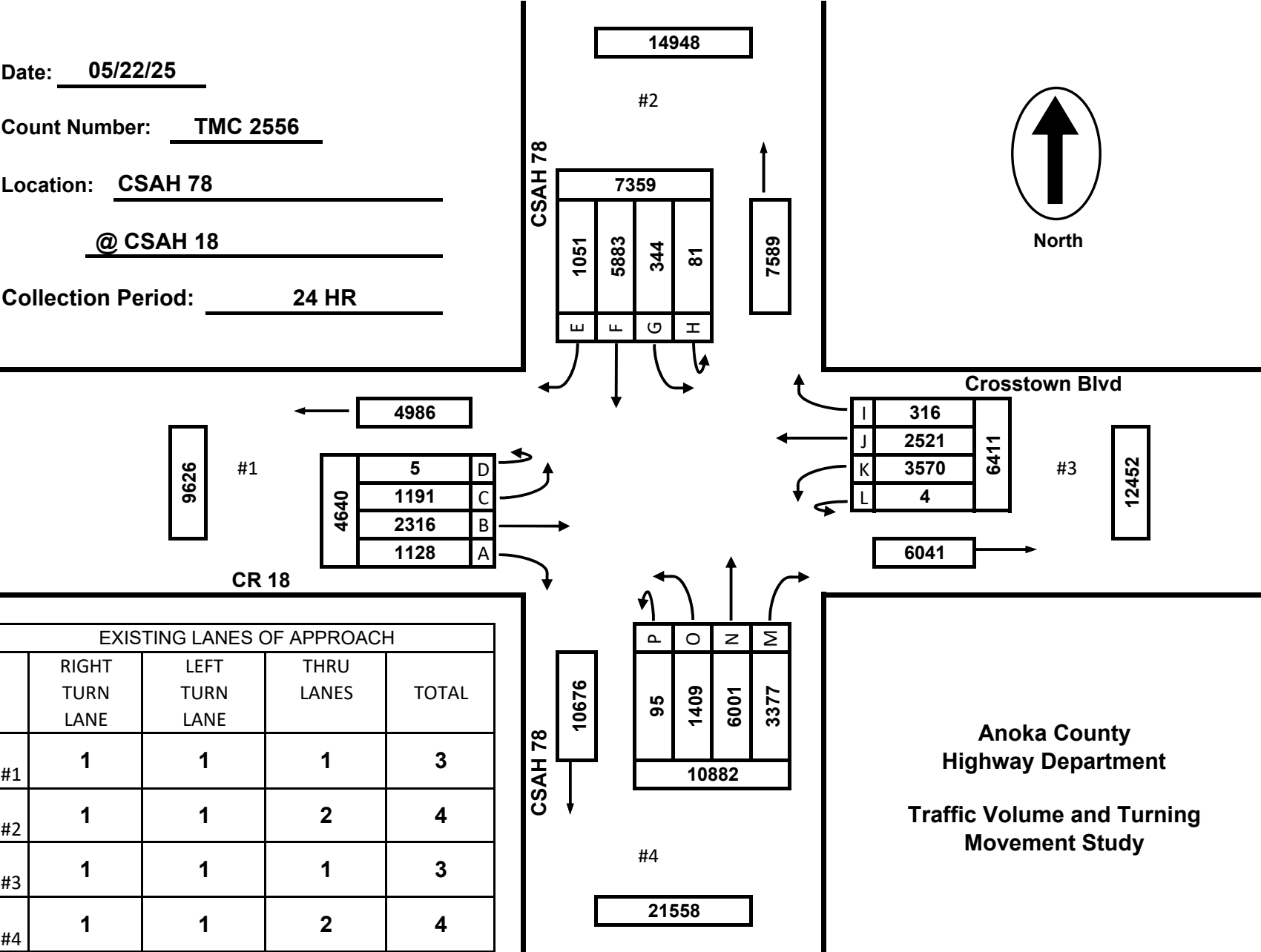


Date: 05/22/25
Count Number: TMC 2556
Location: CSAH 78
@ CSAH 18
Collection Period: 24 HR



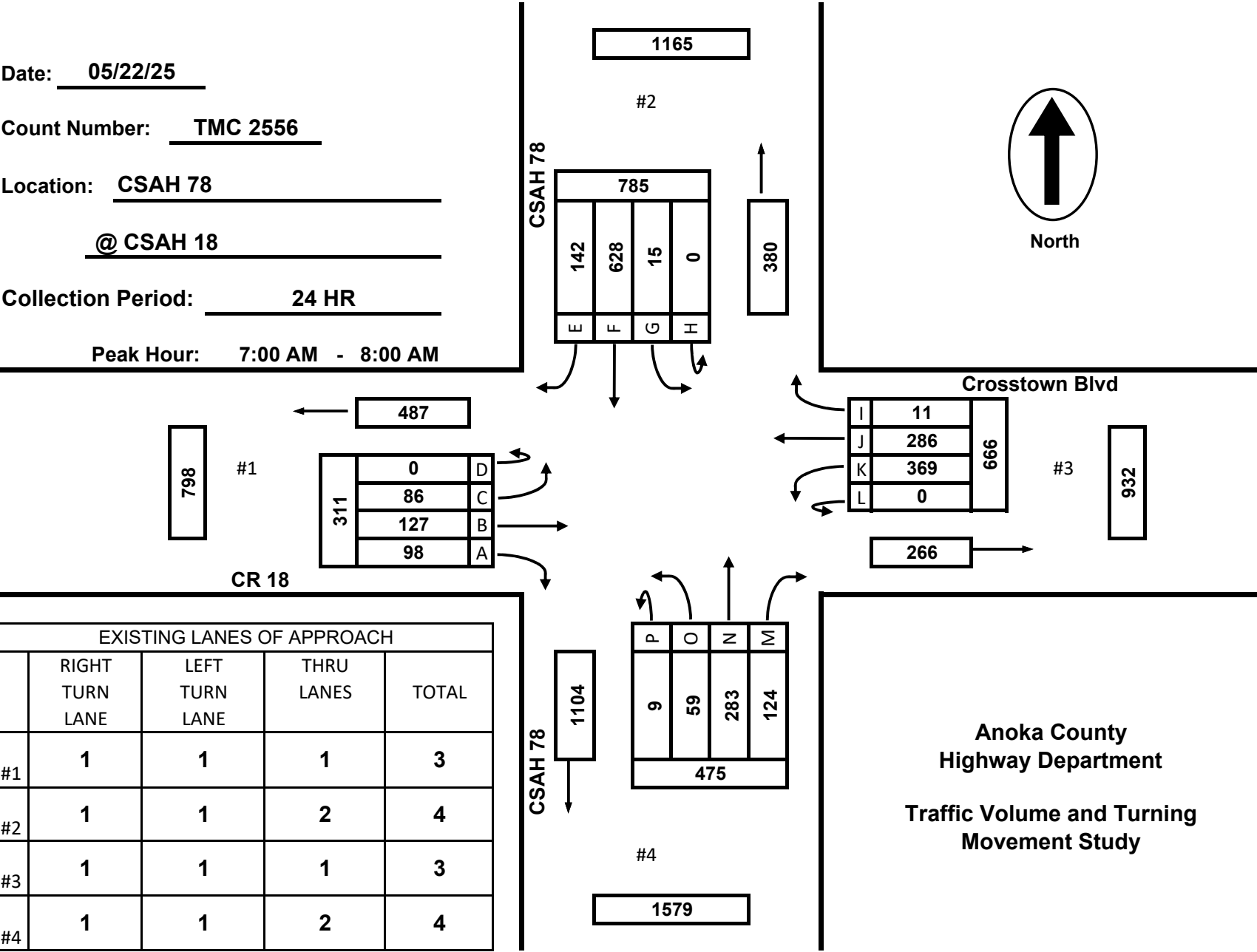
Date: 05/22/25

Count Number: TMC 2556

Location: CSAH 78
@ CSAH 18

Collection Period: 24 HR

Peak Hour: 7:00 AM - 8:00 AM



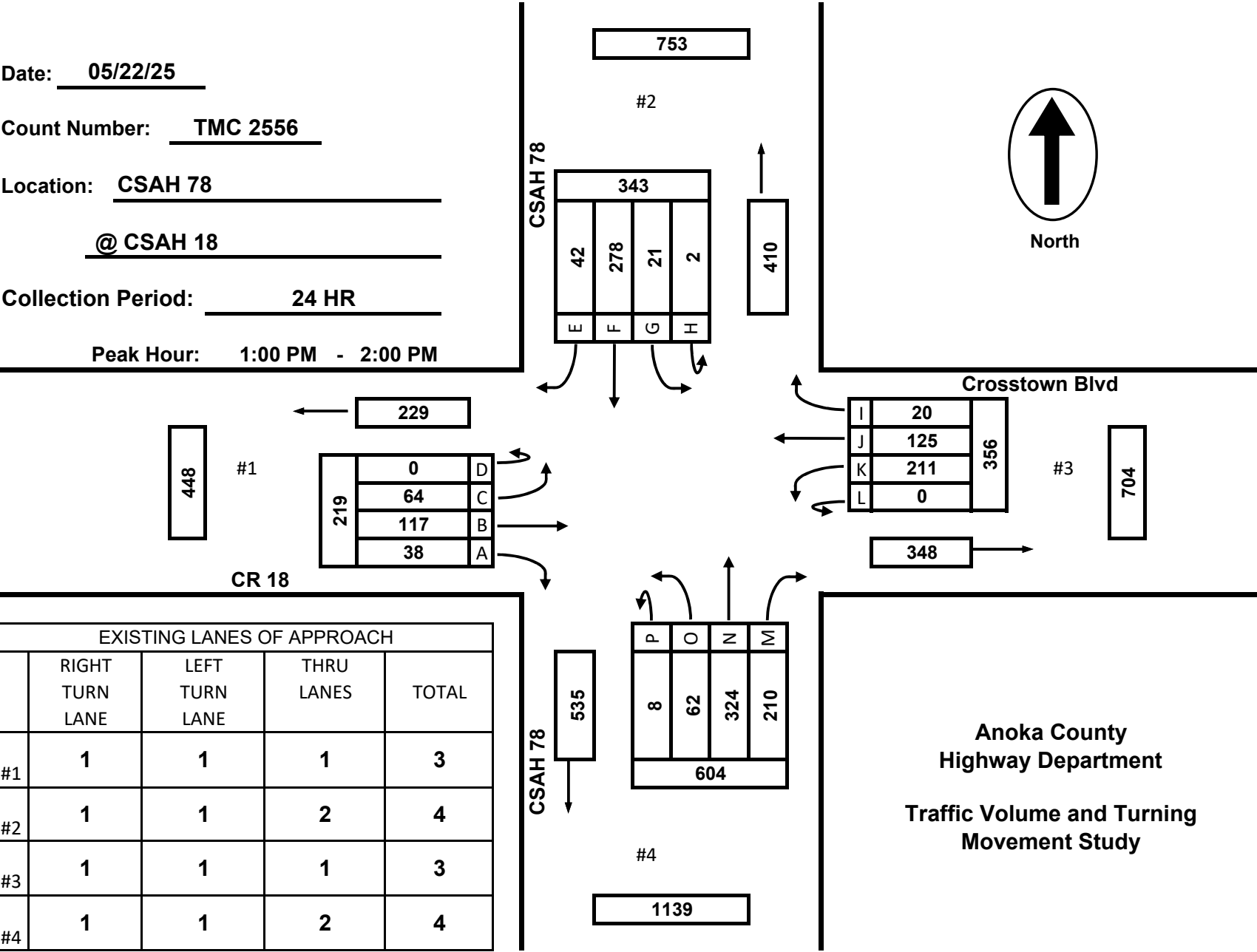
Date: 05/22/25

Count Number: TMC 2556

Location: CSAH 78
@ CSAH 18

Collection Period: 24 HR

Peak Hour: 1:00 PM - 2:00 PM



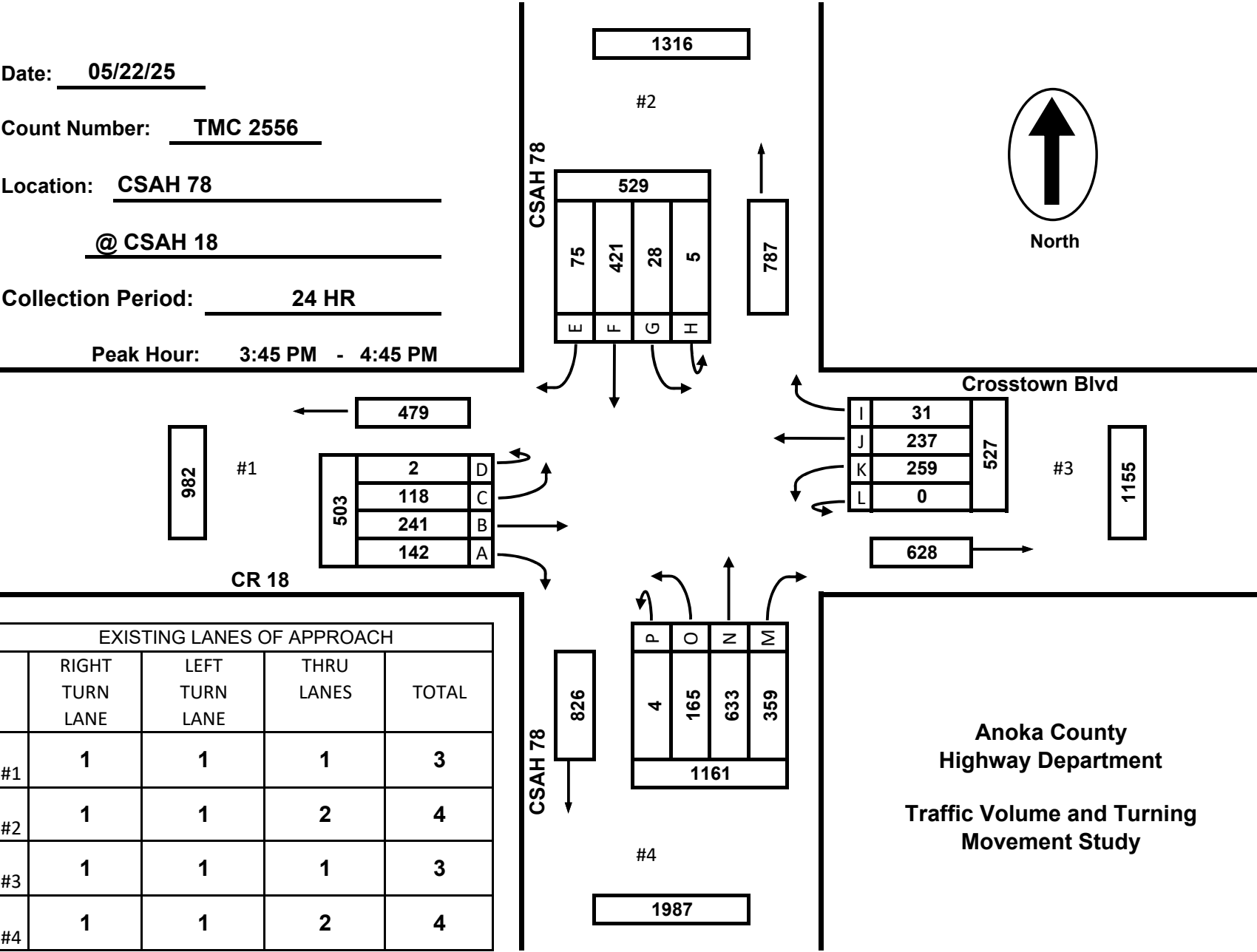
Date: 05/22/25

Count Number: TMC 2556

Location: CSAH 78
@ CSAH 18

Collection Period: 24 HR

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



TMC 2556 - CSAH 78 @ CSAH 18
Andover MN
Thursday, May 22, 2025

Time	Southbound CSAH 78						Westbound Crosstown Blvd						Northbound CSAH 78						Eastbound CR 18						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	2	0	0	2	0	3	1	0	0	4	0	3	7	5	0	15	0	1	2	1	0	4	25
12:15 AM	0	0	4	0	0	4	0	0	2	0	0	2	0	0	4	3	0	7	0	2	1	1	0	4	17
12:30 AM	0	0	0	0	0	0	0	2	1	0	0	3	0	1	8	3	0	12	0	1	1	1	0	3	18
12:45 AM	0	0	2	0	0	2	0	1	2	0	0	3	0	2	2	2	0	6	0	0	0	0	0	0	11
Hourly Total	0	0	8	0	0	8	0	6	6	0	0	12	0	6	21	13	0	40	0	4	4	3	0	11	71
1:00 AM	0	0	1	0	0	1	0	1	1	0	0	2	0	0	2	3	0	5	0	0	0	0	0	0	8
1:15 AM	0	0	1	0	0	1	0	2	1	0	0	3	0	1	6	1	0	8	0	0	0	0	0	0	12
1:30 AM	0	0	1	0	0	1	0	1	0	0	0	1	2	1	2	0	0	5	0	1	1	0	0	2	9
1:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	4	2	0	6	0	0	1	0	0	1	10
Hourly Total	0	0	6	0	0	6	0	4	2	0	0	6	2	2	14	6	0	24	0	1	2	0	0	3	39
2:00 AM	0	0	1	0	0	1	0	2	0	0	0	2	0	0	2	2	0	4	0	0	0	0	0	0	7
2:15 AM	0	0	2	0	0	2	0	2	0	0	0	2	0	0	6	2	0	8	0	2	1	1	0	4	16
2:30 AM	0	0	3	1	0	4	0	4	1	0	0	5	0	1	1	1	0	3	0	0	0	0	0	0	12
2:45 AM	0	0	3	0	0	3	0	0	1	0	0	1	0	0	1	1	0	1	0	2	0	0	0	2	7
Hourly Total	0	0	9	1	0	10	0	8	2	0	0	10	0	1	9	6	0	16	0	4	1	1	0	6	42
3:00 AM	0	0	1	0	0	1	0	2	0	0	0	2	0	0	0	2	0	2	0	1	1	1	0	3	8
3:15 AM	0	0	6	0	0	6	0	2	1	1	0	4	0	0	0	1	0	1	0	0	1	3	0	4	15
3:30 AM	0	0	7	1	0	8	0	5	1	0	0	6	0	0	0	1	0	1	0	0	1	0	0	1	16
3:45 AM	0	0	5	0	0	5	0	3	0	0	0	3	0	1	2	4	0	7	0	0	0	0	0	0	15
Hourly Total	0	0	19	1	0	20	0	12	2	1	0	15	0	1	2	8	0	11	0	1	3	4	0	8	54
4:00 AM	0	0	11	0	0	11	0	8	1	0	0	9	0	0	3	1	0	4	0	1	0	1	0	2	26
4:15 AM	0	0	11	3	0	14	0	5	4	0	0	9	1	0	3	1	0	5	0	0	1	1	0	2	30
4:30 AM	0	0	28	2	0	30	0	10	5	0	0	15	1	0	4	2	0	7	0	0	0	5	0	5	57
4:45 AM	0	0	25	0	0	25	0	14	7	2	0	23	0	3	12	4	0	19	0	0	1	2	0	3	70
Hourly Total	0	0	75	5	0	80	0	37	17	2	0	56	2	3	22	8	0	35	0	1	2	9	0	12	183
5:00 AM	0	0	41	1	0	42	0	18	5	3	0	26	0	6	10	4	0	20	0	1	4	6	0	11	99
5:15 AM	0	0	69	5	0	74	0	27	3	0	0	30	0	0	8	4	0	12	0	1	4	6	0	11	127
5:30 AM	0	2	71	4	0	77	0	39	9	2	0	50	3	2	11	5	0	21	0	3	9	15	2	27	175
5:45 AM	0	0	59	6	0	65	0	36	14	3	0	53	1	6	12	9	0	28	0	4	4	7	0	15	161
Hourly Total	0	2	240	16	0	258	0	120	31	8	0	159	4	14	41	22	0	81	0	9	21	34	2	64	562
6:00 AM	2	2	96	6	2	106	0	56	15	0	0	71	0	11	24	11	0	46	0	2	8	16	0	26	249
6:15 AM	4	3	108	9	0	124	0	47	21	0	0	68	2	6	19	21	0	48	0	2	10	19	2	31	271
6:30 AM	1	3	120	8	0	132	0	90	41	3	0	134	7	9	38	31	0	85	0	3	10	14	0	27	378
6:45 AM	0	1	114	15	1	130	0	88	44	3	0	135	0	7	35	31	0	73	0	6	17	23	0	46	384
Hourly Total	7	9	438	38	3	492	0	281	121	6	0	408	9	33	116	94	0	252	0	13	45	72	2	130	1282
7:00 AM	0	1	145	36	1	182	0	91	63	3	1	157	2	17	47	17	0	83	0	17	24	20	0	61	483
7:15 AM	0	1	187	67	1	255	0	98	98	2	0	198	3	22	51	33	0	109	0	17	19	19	2	55	617
7:30 AM	0	5	163	21	2	189	0	90	85	3	0	178	3	12	71	38	0	124	0	28	46	35	3	109	600
7:45 AM	0	8	133	18	1	159	0	90	40	3	7	133	1	8	114	36	1	159	0	24	38	24	6	86	537
Hourly Total	0	15	628	142	5	785	0	369	286	11	8	666	9	59	283	124	1	475	0	86	127	98	11	311	2237

TMC 2556 - CSAH 78 @ CSAH 18
Andover MN
Thursday, May 22, 2025

Time	Southbound CSAH 78						Westbound Crosstown Blvd						Northbound CSAH 78						Eastbound CR 18						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	6	126	36	0	168	0	54	49	4	4	107	2	18	67	32	1	119	0	27	35	15	1	77	471
8:15 AM	0	8	116	26	1	150	0	70	39	2	1	111	1	13	60	32	1	106	0	15	16	15	1	46	413
8:30 AM	1	4	105	23	0	133	0	64	32	7	0	103	3	19	63	34	0	119	0	8	18	19	0	45	400
8:45 AM	1	4	84	12	0	101	0	55	37	4	0	96	0	16	58	34	0	108	0	14	31	12	0	57	362
Hourly Total	2	22	431	97	1	552	0	243	157	17	5	417	6	66	248	132	2	452	0	64	100	61	2	225	1646
9:00 AM	1	4	92	19	0	116	0	62	51	10	0	123	2	33	55	34	0	124	0	14	30	10	0	54	417
9:15 AM	1	10	109	7	0	127	0	67	32	7	1	106	0	25	67	48	2	140	0	23	26	21	1	70	443
9:30 AM	2	4	68	10	0	84	0	46	55	4	0	105	1	15	75	36	0	127	0	7	25	13	1	45	361
9:45 AM	2	2	86	11	0	101	0	59	41	3	0	103	2	10	70	33	0	115	0	15	13	18	2	46	365
Hourly Total	6	20	355	47	0	428	0	234	179	24	1	437	5	83	267	151	2	506	0	59	94	62	4	215	1586
10:00 AM	6	4	88	11	0	109	0	44	31	6	0	81	2	28	84	36	0	150	0	13	25	7	2	45	385
10:15 AM	1	7	76	7	0	91	0	48	25	4	2	77	0	9	63	42	0	114	0	19	19	14	0	52	334
10:30 AM	4	2	92	10	0	108	0	51	34	2	2	87	0	12	70	31	0	113	0	9	25	19	1	53	361
10:45 AM	5	6	81	9	1	101	0	43	34	3	2	80	1	12	87	38	0	138	0	13	20	15	1	48	367
Hourly Total	16	19	337	37	1	409	0	186	124	15	6	325	3	61	304	147	0	515	0	54	89	55	4	198	1447
11:00 AM	0	5	78	11	0	94	0	37	39	3	4	79	2	8	60	44	0	114	0	19	34	17	0	70	357
11:15 AM	0	6	60	18	0	84	0	41	44	3	0	88	2	13	58	36	1	109	1	26	23	9	1	59	340
11:30 AM	1	2	77	12	0	92	0	46	31	2	1	79	1	11	54	29	0	95	0	11	27	11	0	49	315
11:45 AM	1	7	93	13	0	114	0	54	47	3	0	104	2	18	70	54	0	144	0	16	35	16	0	67	429
Hourly Total	2	20	308	54	0	384	0	178	161	11	5	350	7	50	242	163	1	462	1	72	119	53	1	245	1441
12:00 PM	3	11	75	8	0	97	0	44	31	3	1	78	0	8	77	51	0	136	0	11	34	16	0	61	372
12:15 PM	1	3	70	9	0	83	0	37	33	5	0	75	2	9	58	47	1	116	0	16	28	16	1	60	334
12:30 PM	1	2	75	12	0	90	1	47	24	5	0	77	2	11	77	37	0	127	0	16	31	15	0	62	356
12:45 PM	1	1	60	10	0	72	0	39	36	4	1	79	1	18	87	42	0	148	0	15	32	11	1	58	357
Hourly Total	6	17	280	39	0	342	1	167	124	17	2	309	5	46	299	177	1	527	0	58	125	58	2	241	1419
1:00 PM	0	7	76	10	1	93	0	63	31	5	1	99	3	10	80	54	0	147	0	18	26	12	0	56	395
1:15 PM	0	6	69	11	0	86	0	44	33	4	0	81	2	17	83	49	2	151	0	20	37	7	0	64	382
1:30 PM	1	5	67	14	0	87	0	48	35	4	1	87	3	13	79	60	2	155	0	8	24	12	0	44	373
1:45 PM	1	3	66	7	2	77	0	56	26	7	0	89	0	22	82	47	0	151	0	18	30	7	3	55	372
Hourly Total	2	21	278	42	3	343	0	211	125	20	2	356	8	62	324	210	4	604	0	64	117	38	3	219	1522
2:00 PM	0	3	66	9	0	78	0	41	29	3	0	73	3	23	95	59	0	180	0	12	34	10	5	56	387
2:15 PM	0	4	58	18	0	80	1	32	52	4	0	89	0	24	84	59	1	167	0	33	39	13	0	85	421
2:30 PM	0	2	81	19	0	102	0	62	31	6	0	99	1	22	155	66	1	244	0	48	68	19	8	135	580
2:45 PM	0	6	88	9	4	103	0	42	35	6	1	83	1	17	120	69	0	207	0	26	45	8	0	79	472
Hourly Total	0	15	293	55	4	363	1	177	147	19	1	344	5	86	454	253	2	798	0	119	186	50	13	355	1860
3:00 PM	2	7	82	31	0	122	0	47	37	6	8	90	1	18	132	76	1	227	0	23	34	11	3	68	507
3:15 PM	0	14	101	33	3	148	0	50	45	5	3	100	1	32	138	74	0	245	0	18	51	10	4	79	572
3:30 PM	1	4	75	25	3	105	0	52	56	4	3	112	2	63	144	74	2	283	1	15	53	20	0	89	589
3:45 PM	3	3	107	26	4	139	0	57	64	11	2	132	1	69	149	81	0	300	0	27	48	27	0	102	673
Hourly Total	6	28	365	115	10	514	0	206	202	26	16	434	5	182	563	305	3	1055	1	83	186	68	7	338	2341

TMC 2556 - CSAH 78 @ CSAH 18
Andover MN
Thursday, May 22, 2025

Time	Southbound CSAH 78						Westbound Crosstown Blvd						Northbound CSAH 78						Eastbound CR 18						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	12	104	15	2	131	0	62	68	7	2	137	0	32	162	74	2	268	0	41	73	65	0	179	715
4:15 PM	2	9	109	18	6	138	0	66	54	7	0	127	2	35	197	122	0	356	1	34	58	16	0	109	730
4:30 PM	0	4	101	16	1	121	0	74	51	6	3	131	1	29	125	82	0	237	1	16	62	34	0	113	602
4:45 PM	3	8	102	13	2	126	0	58	41	6	1	105	1	21	201	89	1	312	0	21	54	13	0	88	631
Hourly Total	5	33	416	62	11	516	0	260	214	26	6	500	4	117	685	367	3	1173	2	112	247	128	0	489	2678
5:00 PM	0	14	76	13	1	103	0	67	50	11	2	128	1	30	179	98	1	308	0	27	46	20	1	93	632
5:15 PM	3	8	101	19	2	131	0	66	66	12	1	144	1	27	123	92	2	243	0	19	49	17	3	85	603
5:30 PM	1	7	86	27	1	121	0	55	52	10	2	117	4	37	178	78	3	297	0	17	67	17	3	101	636
5:45 PM	0	9	78	32	2	119	1	57	58	8	0	124	2	34	162	74	0	272	0	25	57	20	0	102	617
Hourly Total	4	38	341	91	6	474	1	245	226	41	5	513	8	128	642	342	6	1120	0	88	219	74	7	381	2488
6:00 PM	1	3	78	19	1	101	0	49	31	6	1	86	1	33	132	71	1	237	0	30	41	22	0	93	517
6:15 PM	2	5	69	16	0	92	0	55	44	11	0	110	0	28	115	61	0	204	0	17	55	13	1	85	491
6:30 PM	1	8	56	10	1	75	0	41	20	6	3	67	1	33	130	77	0	241	0	24	52	13	1	89	472
6:45 PM	1	2	86	18	2	107	0	38	30	14	0	82	0	37	90	61	0	188	0	13	33	10	0	56	433
Hourly Total	5	18	289	63	4	375	0	183	125	37	4	345	2	131	467	270	1	870	0	84	181	58	2	323	1913
7:00 PM	3	9	94	11	0	117	0	45	22	4	4	71	2	25	83	58	2	168	0	26	58	28	3	112	468
7:15 PM	2	6	78	20	0	106	0	44	33	5	2	82	2	26	93	47	0	168	0	18	54	15	0	87	443
7:30 PM	2	12	58	16	0	88	0	27	33	2	2	62	1	13	88	43	2	145	0	19	40	15	0	74	369
7:45 PM	2	6	42	14	4	64	0	25	22	2	0	49	1	26	71	35	0	133	1	14	38	15	2	68	314
Hourly Total	9	33	272	61	4	375	0	141	110	13	8	264	6	90	335	183	4	614	1	77	190	73	5	341	1594
8:00 PM	3	8	76	23	0	110	0	37	19	2	3	58	1	18	91	46	1	156	0	26	46	15	0	87	411
8:15 PM	0	7	75	7	1	89	0	53	20	4	1	77	0	20	79	35	0	134	0	27	40	33	1	100	400
8:30 PM	1	1	77	15	2	94	0	29	18	3	2	50	0	14	68	39	1	121	0	18	31	12	0	61	326
8:45 PM	3	3	54	7	1	67	0	32	20	2	3	54	0	17	62	42	0	121	0	6	29	9	1	44	286
Hourly Total	7	19	282	52	4	360	0	151	77	11	9	239	1	69	300	162	2	532	0	77	146	69	2	292	1423
9:00 PM	2	8	47	9	0	66	0	24	14	3	2	41	0	22	68	38	0	128	0	11	24	8	0	43	278
9:15 PM	0	2	25	7	1	34	0	21	15	2	0	38	0	18	28	36	0	82	0	9	17	5	0	31	185
9:30 PM	1	1	20	6	3	28	0	17	7	1	2	25	0	14	41	24	2	79	0	12	13	10	3	35	167
9:45 PM	0	0	13	3	0	16	0	12	13	1	0	26	0	15	32	31	0	78	0	5	14	2	0	21	141
Hourly Total	3	11	105	25	4	144	0	74	49	7	4	130	0	69	169	129	2	367	0	37	68	25	3	130	771
10:00 PM	0	0	21	0	0	21	1	17	4	3	0	25	2	9	33	18	0	62	0	3	12	5	0	20	128
10:15 PM	1	0	19	4	0	24	0	13	9	0	1	22	2	14	33	19	1	68	0	8	10	8	0	26	140
10:30 PM	0	1	13	1	0	15	0	7	13	1	0	21	0	12	41	24	0	77	0	3	11	3	0	17	130
10:45 PM	0	0	11	2	0	13	0	16	3	0	0	19	0	5	27	10	0	42	0	5	2	5	0	12	86
Hourly Total	1	1	64	7	0	73	1	53	29	4	1	87	4	40	134	71	1	249	0	19	35	21	0	75	484
11:00 PM	0	1	24	0	0	25	0	7	3	0	0	10	0	4	15	8	0	27	0	0	3	3	0	6	68
11:15 PM	0	0	10	1	0	11	0	6	1	0	0	7	0	3	17	12	0	32	0	1	1	5	0	7	57
11:30 PM	0	0	6	0	0	6	0	7	0	0	0	7	0	2	16	7	0	25	0	0	2	4	0	6	44
11:45 PM	0	2	4	0	0	6	0	4	1	0	0	5	0	1	12	7	0	20	0	4	3	2	0	9	40
Hourly Total	0	3	44	1	0	48	0	24	5	0	0	29	0	10	60	34	0	104	0	5	9	14	0	28	209
DAILY TOTAL	81	344	5883	1051	60	7359	4	3570	2521	316	83	6411	95	1409	6001	3377	35	10882	5	1191	2316	1128	70	4640	29292
Cars	81	334	5766	1027	34	7208	4	3504	2462	307	38	6277	94	1359	5910	3279	17	10642	5	1171	2284	1117	44	4577	28704
Heavy Vehicles	0	10	117	24	26	151	0	66	59	9	45	134	1	50	91	98	18	240	0	20	32	11	26	63	588
Heavy Vehicle %	0.00%	2.91%	1.99%	2.28%	43.33%	2.05%	0.00%	1.85%	2.34%	2.85%	54.22%	2.09%	1.05%	3.55%	1.52%	2.90%	51.43%	2.21%	0.00%	1.68%	1.38%	0.98%	37.14%	1.36%	2.01%

TMC 2556 - CSAH 78 @ CSAH 18
Andover MN
Thursday, May 22, 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	
7:00 AM	0	1	145	36	1	182	0	91	63	3	1	157	2	17	47	17	0	83	0	17	24	20	0	61	483
7:15 AM	0	1	187	67	1	255	0	98	98	2	0	198	3	22	51	33	0	109	0	17	19	19	2	55	617
7:30 AM	0	5	163	21	2	189	0	90	85	3	0	178	3	12	71	38	0	124	0	28	46	35	3	109	600
7:45 AM	0	8	133	18	1	159	0	90	40	3	7	133	1	8	114	36	1	159	0	24	38	24	6	86	537
Peak Hour Total	0	15	628	142	5	785	0	369	286	11	8	666	9	59	283	124	1	475	0	86	127	98	11	311	2237
Peak Hour Heavy Vehicles	0	0	6	4	3	10	0	7	6	0	3	13	0	8	16	4	3	28	0	2	6	1	5	9	60
Peak Hour Heavy Vehicles %	0.00%	0.00%	0.96%	2.82%	60.00%	1.27%	0.00%	1.90%	2.10%	0.00%	37.50%	1.95%	0.00%	13.56%	5.65%	3.23%	300.00%	5.89%	0.00%	2.33%	4.72%	1.02%	45.45%	2.89%	2.68%
PHF	0.000	0.469	0.840	0.530	0.625	0.770	0.000	0.941	0.730	0.917	0.286	0.841	0.750	0.670	0.621	0.816	0.250	0.747	0.000	0.768	0.690	0.700	0.458	0.713	0.906

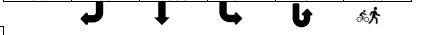
Mid Peak Hour (10:00 - 14:00)

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	
1:00 PM	0	7	76	10	1	93	0	63	31	5	1	99	3	10	80	54	0	147	0	18	26	12	0	56	395
1:15 PM	0	6	69	11	0	86	0	44	33	4	0	81	2	17	83	49	2	151	0	20	37	7	0	64	382
1:30 PM	1	5	67	14	0	87	0	48	35	4	1	87	3	13	79	60	2	155	0	8	24	12	0	44	373
1:45 PM	1	3	66	7	2	77	0	56	26	7	0	89	0	22	82	47	0	151	0	18	30	7	3	55	372
Peak Hour Total	2	21	278	42	3	343	0	211	125	20	2	356	8	62	324	210	4	604	0	64	117	38	3	219	1522
Peak Hour Heavy Vehicles	0	2	5	0	1	7	0	2	3	1	2	6	1	7	2	11	1	21	0	1	3	0	2	4	38
Peak Hour Heavy Vehicles %	0.00%	9.52%	1.80%	0.00%	33.33%	2.04%	0.00%	0.95%	2.40%	5.00%	100.00%	1.69%	12.50%	11.29%	0.62%	5.24%	25.00%	3.48%	0.00%	1.56%	2.56%	0.00%	66.67%	1.83%	2.50%
PHF	0.500	0.750	0.914	0.750	0.375	0.922	0.000	0.837	0.893	0.714	0.500	0.899	0.667	0.705	0.976	0.875	0.500	0.974	0.000	0.800	0.791	0.792	0.250	0.855	0.963

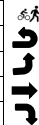
PM Peak Hour (14:00 - 24:00)

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	3	3	107	26	4	139	0	57	64	11	2	132	1	69	149	81	0	300	0	27	48	27	0	102	673
4:00 PM	0	12	104	15	2	131	0	62	68	7	2	137	0	32	162	74	2	268	0	41	73	65	0	179	715
4:15 PM	2	9	109	18	6	138	0	66	54	7	0	127	2	35	197	122	0	356	1	34	58	16	0	109	730
4:30 PM	0	4	101	16	1	121	0	74	51	6	3	131	1	29	125	82	0	237	1	16	62	34	0	113	602
Peak Hour Total	5	28	421	75	13	529	0	259	237	31	7	527	4	165	633	359	2	1161	2	118	241	142	0	503	2720
Peak Hour Heavy Vehicles	0	0	15	1	9	16	0	6	3	0	4	9	0	0	7	8	9	15	0	1	10	1	0	12	52
Peak Hour Heavy Vehicles %	0.00%	0.00%	3.56%	1.33%	69.23%	3.02%	0.00%	2.32%	1.27%	0.00%	57.14%	1.71%	0.00%	0.00%	1.11%	2.23%	450.00%	1.29%	0.00%	0.85%	4.15%	0.70%	0.00%	2.39%	1.91%
PHF	0.417	0.583	0.966	0.721	0.542	0.951	0.000	0.875	0.871	0.705	0.583	0.962	0.500	0.598	0.803	0.736	0.250	0.815	0.500	0.720	0.825	0.546	0.000	0.703	0.932

Total Vehicles On Leg						14948					
Vehicles Entering Intersection						Vehicles Exiting Intersection					
Southbound						Northbound					
Cars	1027	5766	334	81	34	Cars	17	94	1359	5910	3279
Heavy	24	117	10	0	26	Heavy	18	50	81	81	36
Total	1051	5883	344	81	60	Total	35	95	1409	6001	3377



Total Vehicles on Leg 9626	Entering Intersection	Eastbound	Cars	Heavy	Total
	4640		44	26	70
			5	0	5
	Exiting Intersection		1171	20	1191
	4986		2284	32	2316
			1117	11	1128



Daily Volumes

Cars	Heavy	Total	Westbound	Entering Intersection	Total Vehicles on Leg 12452
307	9	316		6411	
2462	59	2521			
3504	66	3570		Exiting Intersection	
4	0	4		6041	
38	45	83			

					
Cars	17	94	1359	5910	3279
Heavy	18	1	50	91	98
Total	35	95	1409	6001	3377
Northbound					
Vehicles Entering Intersection			Vehicles Exiting Intersection		
10882			10676		
Total Vehicles On Leg			21558		

TMC 2556 - CSAH 78 @ CSAH 18
Andover MN
Thursday, May 22, 2025

Time	Southbound Heavy CSAH 78						Westbound Heavy Crosstown Blvd						Northbound Heavy CSAH 78						Eastbound Heavy CR 18						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	
12:00 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
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	1	0	0	1	1
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
2:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2:15 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	2
2:30 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	2
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	1	0	0	1	0	2	0	0	0	2	0	1	0	0	0	1	0	1	0	0	0	1	5
3:00 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
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	1	1	0	2	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	3
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	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
4:30 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
4:45 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	1	0	1	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	3
5:00 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	2
5:15 AM	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	2
5:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	3
Hourly 'Heavy Vehicles'	0	0	0	2	0	2	0	1	1	0	0	2	0	0	1	1	0	2	0	3	0	1	0	4	10
6:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3
6:15 AM	0	0	2	0	0	2	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	5
6:30 AM	0	0	3	0	0	3	0	3	1	0	0	4	0	0	2	4	0	6	0	1	0	2	0	3	16
6:45 AM	0	0	1	0	1	1	0	4	0	1	0	5	0	1	1	3	0	5	0	0	0	0	0	0	11
Hourly 'Heavy Vehicles'	0	0	7	0	1	7	0	8	1	1	0	10	0	1	7	7	0	15	0	1	0	2	0	3	35
7:00 AM	0	0	1	2	0	3	0	0	3	0	0	3	0	4	6	0	0	10	0	1	0	1	0	2	18
7:15 AM	0	0	2	1	0	3	0	1	0	0	0	1	0	3	5	1	0	9	0	1	1	0	0	2	15
7:30 AM	0	0	0	0	2	0	0	2	1	0	0	3	0	1	3	1	0	5	0	0	2	0	1	2	10
7:45 AM	0	0	3	1	1	4	0	4	2	0	3	6	0	0	2	2	1	4	0	0	3	0	4	3	17
Hourly 'Heavy Vehicles'	0	0	6	4	3	10	0	7	6	0	3	13	0	8	16	4	1	28	0	2	6	1	5	9	60

TMC 2556 - CSAH 78 @ CSAH 18

Andover MN

Thursday, May 22, 2025

Time	Southbound Heavy CSAH 78						Westbound Heavy Crosstown Blvd						Northbound Heavy CSAH 78						Eastbound Heavy CR 18						VEHICLE 'Heavy Vehicles'
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	
8:00 AM	0	0	9	4	0	13	0	1	3	0	2	4	0	5	4	6	0	15	0	0	1	0	1	1	33
8:15 AM	0	1	3	1	0	5	0	0	1	0	1	1	0	1	1	1	1	3	0	0	0	0	1	0	9
8:30 AM	0	0	2	1	0	3	0	0	1	0	0	1	0	1	1	2	0	4	0	1	0	1	0	2	10
8:45 AM	0	0	0	0	0	0	0	1	2	0	0	3	0	1	1	3	0	5	0	2	1	0	0	3	11
Hourly 'Heavy Vehicles'	0	1	14	6	0	21	0	2	7	0	3	9	0	8	7	12	1	27	0	3	2	1	2	6	63
9:00 AM	0	1	1	0	0	2	0	4	4	1	0	9	0	5	2	5	0	12	0	2	0	0	0	2	25
9:15 AM	0	0	14	0	0	14	0	4	1	1	0	6	0	3	1	4	0	8	0	0	0	2	0	2	30
9:30 AM	0	0	4	0	0	4	0	4	2	0	0	6	0	0	0	1	0	1	0	1	0	0	1	1	12
9:45 AM	0	0	1	0	0	1	0	1	3	0	0	4	0	0	2	0	0	2	0	0	1	1	0	2	9
Hourly 'Heavy Vehicles'	0	1	20	0	0	21	0	13	10	2	0	25	0	8	5	10	0	23	0	3	1	3	1	7	76
10:00 AM	0	1	2	0	0	3	0	1	3	0	0	4	0	0	1	6	0	7	0	1	1	0	0	2	16
10:15 AM	0	0	1	0	0	1	0	0	2	0	2	2	0	2	3	4	0	9	0	0	0	0	0	0	12
10:30 AM	0	0	0	0	0	0	0	2	0	0	2	2	0	0	0	1	0	1	0	0	0	0	0	0	3
10:45 AM	0	0	3	0	0	3	0	0	3	0	1	3	0	1	2	0	0	3	0	0	0	0	0	0	9
Hourly 'Heavy Vehicles'	0	1	6	0	0	7	0	3	8	0	5	11	0	3	6	11	0	20	0	1	1	0	0	2	40
11:00 AM	0	0	1	0	0	1	0	1	1	0	3	2	0	0	3	4	0	7	0	0	0	0	0	0	10
11:15 AM	0	0	4	1	0	5	0	1	1	1	0	3	0	0	0	1	0	1	0	0	0	0	0	0	9
11:30 AM	0	0	2	1	0	3	0	0	0	0	1	0	0	0	1	1	0	2	0	0	0	0	0	0	5
11:45 AM	0	1	0	0	0	1	0	2	2	0	0	4	0	1	3	0	0	4	0	0	2	0	0	2	11
Hourly 'Heavy Vehicles'	0	1	7	2	0	10	0	4	4	1	4	9	0	1	7	6	0	14	0	0	2	0	0	2	35
12:00 PM	0	0	3	0	0	3	0	0	4	0	0	4	0	0	1	4	0	5	0	0	0	0	0	0	12
12:15 PM	0	0	3	0	0	3	0	1	1	1	0	3	0	0	0	2	1	2	0	0	0	0	1	0	8
12:30 PM	0	0	3	1	0	4	0	1	1	0	0	2	0	0	3	0	0	3	0	0	0	0	0	0	9
12:45 PM	0	0	0	0	0	0	0	1	1	0	1	2	0	0	1	1	0	2	0	0	1	0	0	1	5
Hourly 'Heavy Vehicles'	0	0	9	1	0	10	0	3	7	1	1	11	0	0	5	7	1	12	0	0	1	0	1	1	34
1:00 PM	0	1	2	0	0	3	0	0	3	0	1	3	1	1	0	3	0	5	0	0	1	0	0	1	12
1:15 PM	0	0	1	0	0	1	0	2	0	0	0	2	0	1	1	3	0	5	0	0	0	0	0	0	8
1:30 PM	0	1	1	0	0	2	0	0	0	1	1	1	0	0	1	4	1	5	0	0	1	0	0	1	9
1:45 PM	0	0	1	0	1	1	0	0	0	0	0	0	0	5	0	1	0	6	0	1	1	0	2	2	9
Hourly 'Heavy Vehicles'	0	2	5	0	1	7	0	2	3	1	2	6	1	7	2	11	1	21	0	1	3	0	2	4	38
2:00 PM	0	0	2	0	0	2	0	2	2	0	0	4	0	5	3	0	0	8	0	0	0	0	0	0	14
2:15 PM	0	0	4	0	0	4	0	2	2	0	0	4	0	3	2	2	1	7	0	1	0	0	0	1	16
2:30 PM	0	0	0	0	0	0	0	2	1	1	0	4	0	0	5	3	0	8	0	3	2	1	1	6	18
2:45 PM	0	1	1	0	0	2	0	1	0	0	1	1	0	1	3	1	0	5	0	0	0	0	0	0	8
Hourly 'Heavy Vehicles'	0	1	7	0	0	8	0	7	5	1	1	13	0	9	13	6	1	28	0	4	2	1	1	7	56
3:00 PM	0	1	7	5	0	13	0	0	1	0	8	1	0	0	1	1	1	2	0	0	0	0	3	0	16
3:15 PM	0	1	1	0	1	2	0	0	0	1	3	1	0	0	2	2	0	4	0	0	1	0	1	1	8
3:30 PM	0	0	1	0	0	1	0	0	2	1	0	3	0	2	4	2	0	8	0	0	0	0	0	0	12
3:45 PM	0	0	5	0	4	5	0	1	1	0	2	2	0	0	1	3	0	4	0	0	0	0	0	0	11
Hourly 'Heavy Vehicles'	0	2	14	5	5	21	0	1	4	2	13	7	0	2	8	8	1	18	0	0	1	0	4	1	47

TMC 2556 - CSAH 78 @ CSAH 18
Andover MN
Thursday, May 22, 2025

Time	Southbound Heavy CSAH 78						Westbound Heavy Crosstown Blvd						Northbound Heavy CSAH 78						Eastbound Heavy CR 18						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	5	0	2	5	0	1	1	0	0	2	0	0	3	0	1	3	0	0	7	0	0	7	17
4:15 PM	0	0	1	1	3	2	0	2	1	0	0	3	0	0	1	4	0	5	0	0	2	0	0	2	12
4:30 PM	0	0	4	0	0	4	0	2	0	0	2	2	0	0	2	1	0	3	0	1	1	1	0	3	12
4:45 PM	0	0	5	0	0	5	0	1	0	0	1	1	0	2	0	0	1	2	0	0	1	0	0	1	9
Hourly 'Heavy Vehicles'	0	0	15	1	5	16	0	6	2	0	3	8	0	2	6	5	2	13	0	1	11	1	0	13	50
5:00 PM	0	1	0	1	0	2	0	2	0	0	2	2	0	0	0	0	1	0	0	0	0	1	0	0	4
5:15 PM	0	0	2	0	2	2	0	1	1	0	1	2	0	0	1	1	2	2	0	0	0	0	3	0	6
5:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	3	2	0	0	0	0	3	0	2
5:45 PM	0	0	0	0	2	0	0	1	0	0	0	1	0	0	2	1	0	3	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	1	2	1	4	4	0	4	1	0	5	5	0	0	4	3	6	7	0	0	0	0	7	0	16
6:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	3	0	0	0	0	0	0	3
6:15 PM	0	0	1	1	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	3
6:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6:45 PM	0	0	0	0	1	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	2	1	1	3	0	1	0	0	1	1	0	0	3	0	0	3	0	0	0	0	1	0	7
7:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	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	4	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	4	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0
8:00 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
8:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30 PM	0	0	0	0	2	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	1	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1
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	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
9:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	2	1	0	0	0	0	0	0	1
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	1	0	0	1	0	0	0	0	2	0	0	0	0	2	2	2	0	0	0	0	0	0	3
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	1	2
10:15 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
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	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	1	2
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	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
11:45 PM	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	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2
DAILY 'Heavy Vehicles'	0	10	117	24	26	151	0	66	59	9	45	134	1	50	91	98	18	240	0	20	32	11	26	63	588

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2556

Study Date : 06/02/2025

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 78

Number of Lanes : 2+

Total Approach Volume: 10,882

Southbound: CSAH 78

Number of Lanes :2+

Total Approach Volume: 7,359

Minor Street Approaches

Eastbound: CR 18

Number of Lanes :2+

Total Approach Volume: 3,512

Westbound: Crosstown Blvd

Number of Lanes :2+

Total Approach Volume: 6,095

Warrant Summary (Rural Values Apply)

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

Warrant 1A - Minimum Vehicular Volume.....Satisfied

Required volumes reached for 16 hours, 8 are needed

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

Required volumes reached for 15 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Satisfied

Required 1A volumes reached for 17 hours, 8 are needed

Required 1B volumes reached for 16 hours, 8 are needed

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

Number of hours (16) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (61) 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 2556

Study Date : 06/02/2025

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

16 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 = **2 or more**

Volume Requirements

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

Veh/Hr Minor = **140**

Major Road						Minor Road		
CSAH 78						CR 18		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:15 - 17:15	1213	+	488	=	1701	320	461	Yes
15:15 - 16:15	1096	+	523	=	1619	327	454	Yes
17:15 - 18:15	1049	+	472	=	1521	305	435	Yes
07:15 - 08:15	511	+	771	=	1282	234	604	Yes
14:15 - 15:15	845	+	407	=	1252	316	339	Yes
18:15 - 19:15	801	+	391	=	1192	278	295	Yes
19:15 - 20:15	602	+	368	=	970	256	240	Yes
13:15 - 14:15	637	+	328	=	965	183	312	Yes
08:15 - 09:15	457	+	500	=	957	146	410	Yes
09:15 - 10:15	532	+	421	=	953	147	375	Yes
12:15 - 13:15	538	+	338	=	876	182	311	Yes
10:15 - 11:15	479	+	394	=	873	158	311	Yes
11:15 - 12:15	484	+	387	=	871	184	338	Yes
06:15 - 07:15	289	+	568	=	857	89	485	Yes
20:15 - 21:15	504	+	316	=	820	186	210	Yes
05:15 - 06:15	107	+	322	=	429	35	199	Yes
21:15 - 22:15	301	+	99	=	400	85	107	No
21:30 - 22:30	287	+	89	=	376	77	93	No
21:45 - 22:45	285	+	76	=	361	66	89	No
05:00 - 06:00	81	+	258	=	339	30	151	No
22:00 - 23:00	249	+	73	=	322	54	83	No
22:15 - 23:15	214	+	77	=	291	42	71	No
04:45 - 05:45	72	+	218	=	290	23	122	No
22:30 - 23:30	178	+	64	=	242	26	56	No
04:30 - 05:30	58		171		229	11	89	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2556

Study Date : 06/02/2025

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

15 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 = **2 or more**

Volume Requirements

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

Veh/Hr Minor = **70**

Major Road						Minor Road			
CSAH 78						CR 18			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
15:45 - 16:45	1161	+	529	=	1690	361	496	Yes	
16:45 - 17:45	1160	+	481	=	1641	300	455	Yes	
14:45 - 15:45	962	+	478	=	1440	266	364	Yes	
17:45 - 18:45	954	+	387	=	1341	301	356	Yes	
06:45 - 07:45	389	+	756	=	1145	174	657	Yes	
07:45 - 08:45	503	+	610	=	1113	181	438	Yes	
18:45 - 19:45	669	+	418	=	1087	261	272	Yes	
13:45 - 14:45	742	+	337	=	1079	282	330	Yes	
12:45 - 13:45	601	+	338	=	939	180	329	Yes	
08:45 - 09:45	499	+	428	=	927	170	405	Yes	
11:45 - 12:45	523	+	384	=	907	187	318	Yes	
19:45 - 20:45	544	+	357	=	901	241	223	Yes	
09:45 - 10:45	492	+	409	=	901	138	333	Yes	
10:45 - 11:45	456	+	371	=	827	174	315	Yes	
05:45 - 06:45	207	+	427	=	634	43	320	Yes	
20:45 - 21:45	410	+	195	=	605	121	150	No	
05:30 - 06:30	143	+	372	=	515	42	237	No	
21:00 - 22:00	367	+	144	=	511	105	123	No	
05:15 - 06:15	107	+	322	=	429	35	199	No	
21:15 - 22:15	301	+	99	=	400	85	107	No	
21:30 - 22:30	287	+	89	=	376	77	93	No	
21:45 - 22:45	285	+	76	=	361	66	89	No	
05:00 - 06:00	81	+	258	=	339	30	151	No	
22:00 - 23:00	249	+	73	=	322	54	83	No	
22:15 - 23:15	214		77		291	42	71	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2556

Study Date : 06/02/2025

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

17 hours meet 1A minimums.
16 hours meet 1B minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **336 504**
Veh/Hr Minor = **112 56**

		Major Road						Minor Road			
		CSAH 78						CR 18			
Time	Major NB	+	Major SB	=	Total		Minor EB		Minor WB		Met1A?
16:00 - 17:00	1173	+	516	=	1689		361		474		Yes
17:00 - 18:00	1120	+	474	=	1594		307		472		Yes
15:00 - 16:00	1055	+	514	=	1569		270		408		Yes
07:00 - 08:00	475	+	785	=	1260		213		655		Yes
18:00 - 19:00	870	+	375	=	1245		265		308		Yes
14:00 - 15:00	798	+	363	=	1161		305		325		Yes
08:00 - 09:00	452	+	552	=	1004		164		400		Yes
19:00 - 20:00	614	+	375	=	989		268		251		Yes
13:00 - 14:00	604	+	343	=	947		181		336		Yes
09:00 - 10:00	506	+	428	=	934		153		413		Yes
10:00 - 11:00	515	+	409	=	924		143		310		Yes
20:00 - 21:00	532		360		892		223		228		Yes

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:30 - 16:30	1207	+	513	=	1720	351	479	Yes
16:30 - 17:30	1100	+	481	=	1581	295	473	Yes
17:30 - 18:30	1010	+	433	=	1443	309	402	Yes
14:30 - 15:30	923	+	475	=	1398	313	349	Yes
07:30 - 08:30	508	+	666	=	1174	229	517	Yes
18:30 - 19:30	765	+	405	=	1170	278	273	Yes
06:30 - 07:30	350	+	699	=	1049	113	613	Yes
13:30 - 14:30	653	+	322	=	975	198	320	Yes
08:30 - 09:30	491	+	477	=	968	164	400	Yes
19:30 - 20:30	568	+	351	=	919	251	236	Yes
12:30 - 13:30	573	+	341	=	914	195	318	Yes
09:30 - 10:30	506		385		891	136	349	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2556

Study Date : 06/02/2025

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.

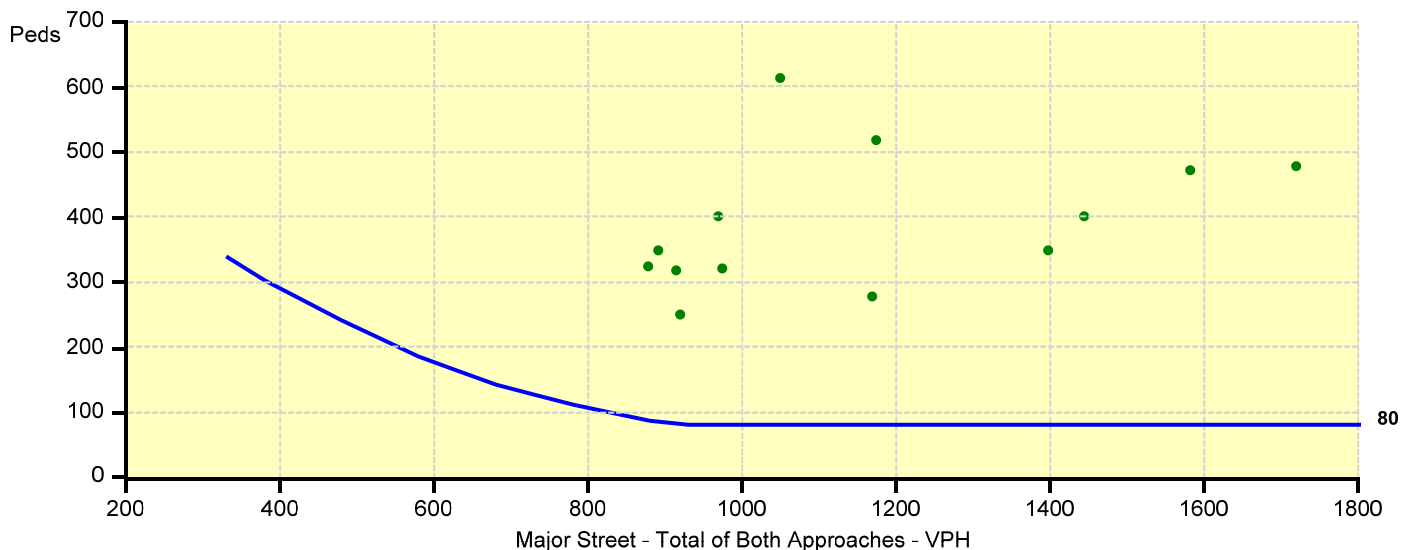
Summary

16 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 = **2 or more**

Major Road						Minor Road			
CSAH 78						CR 18			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
15:30 - 16:30	1207	+	513	=	1720	351	479	Yes	
16:30 - 17:30	1100	+	481	=	1581	295	473	Yes	
17:30 - 18:30	1010	+	433	=	1443	309	402	Yes	
14:30 - 15:30	923	+	475	=	1398	313	349	Yes	
07:30 - 08:30	508	+	666	=	1174	229	517	Yes	
18:30 - 19:30	765	+	405	=	1170	278	273	Yes	
06:30 - 07:30	350	+	699	=	1049	113	613	Yes	
13:30 - 14:30	653	+	322	=	975	198	320	Yes	
08:30 - 09:30	491	+	477	=	968	164	400	Yes	
19:30 - 20:30	568	+	351	=	919	251	236	Yes	
12:30 - 13:30	573	+	341	=	914	195	318	Yes	
09:30 - 10:30	506		385		891	136	349	Yes	



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2556

Study Date : 06/02/2025

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

59 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 = **2 or more**

Major Road						Minor Road			
CSAH 78						CR 18			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
15:30 - 16:30	1207	+	513	=	1720	351	479	Yes	
16:15 - 17:15	1213	+	488	=	1701	320	461	Yes	
15:45 - 16:45	1161	+	529	=	1690	361	496	Yes	
16:00 - 17:00	1173	+	516	=	1689	361	474	Yes	
16:45 - 17:45	1160	+	481	=	1641	300	455	Yes	
15:15 - 16:15	1096	+	523	=	1619	327	454	Yes	
17:00 - 18:00	1120	+	474	=	1594	307	472	Yes	
16:30 - 17:30	1100	+	481	=	1581	295	473	Yes	
15:00 - 16:00	1055	+	514	=	1569	270	408	Yes	
17:15 - 18:15	1049	+	472	=	1521	305	435	Yes	
17:30 - 18:30	1010	+	433	=	1443	309	402	Yes	
14:45 - 15:45	962		478		1440	266	364	Yes	

