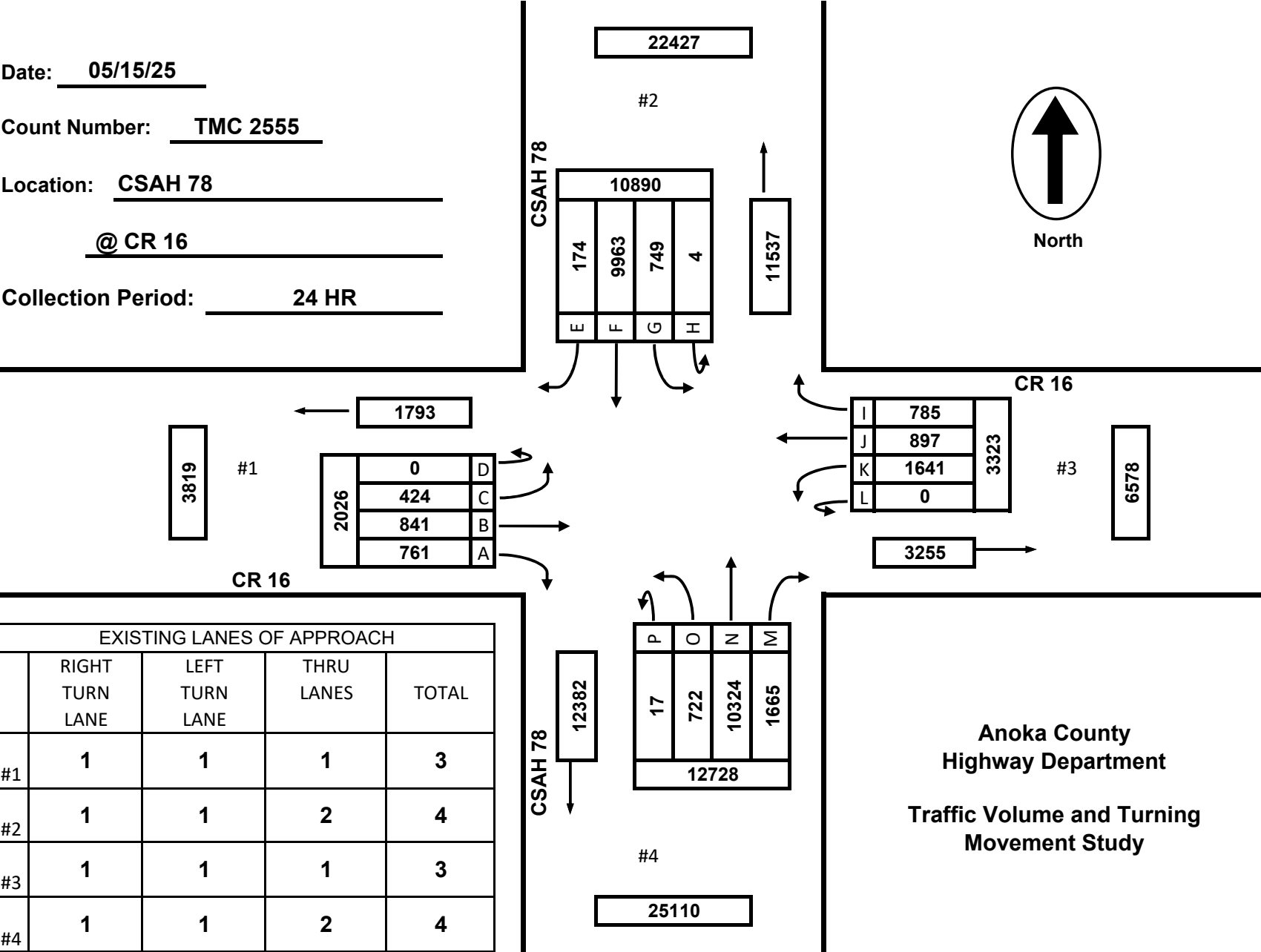
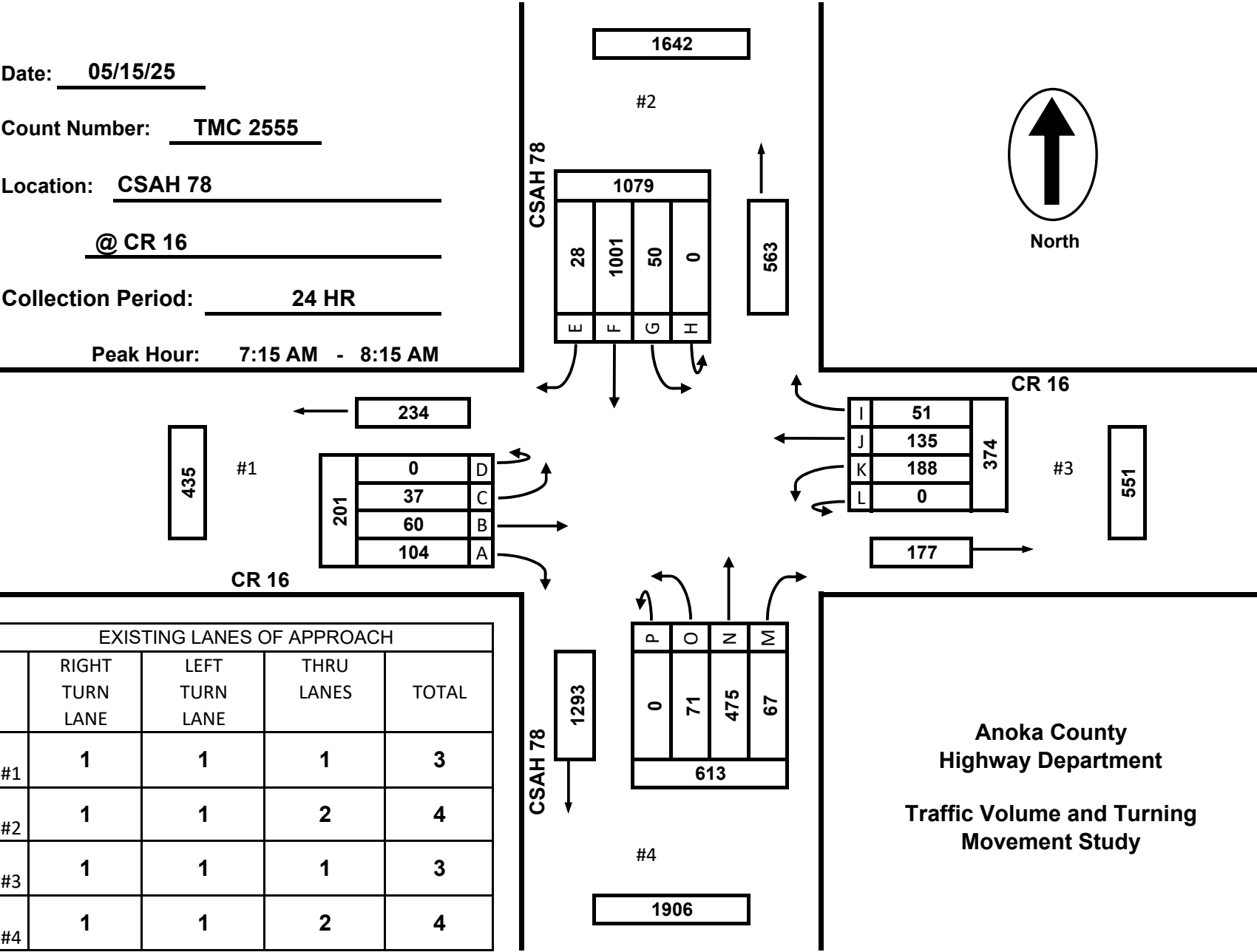


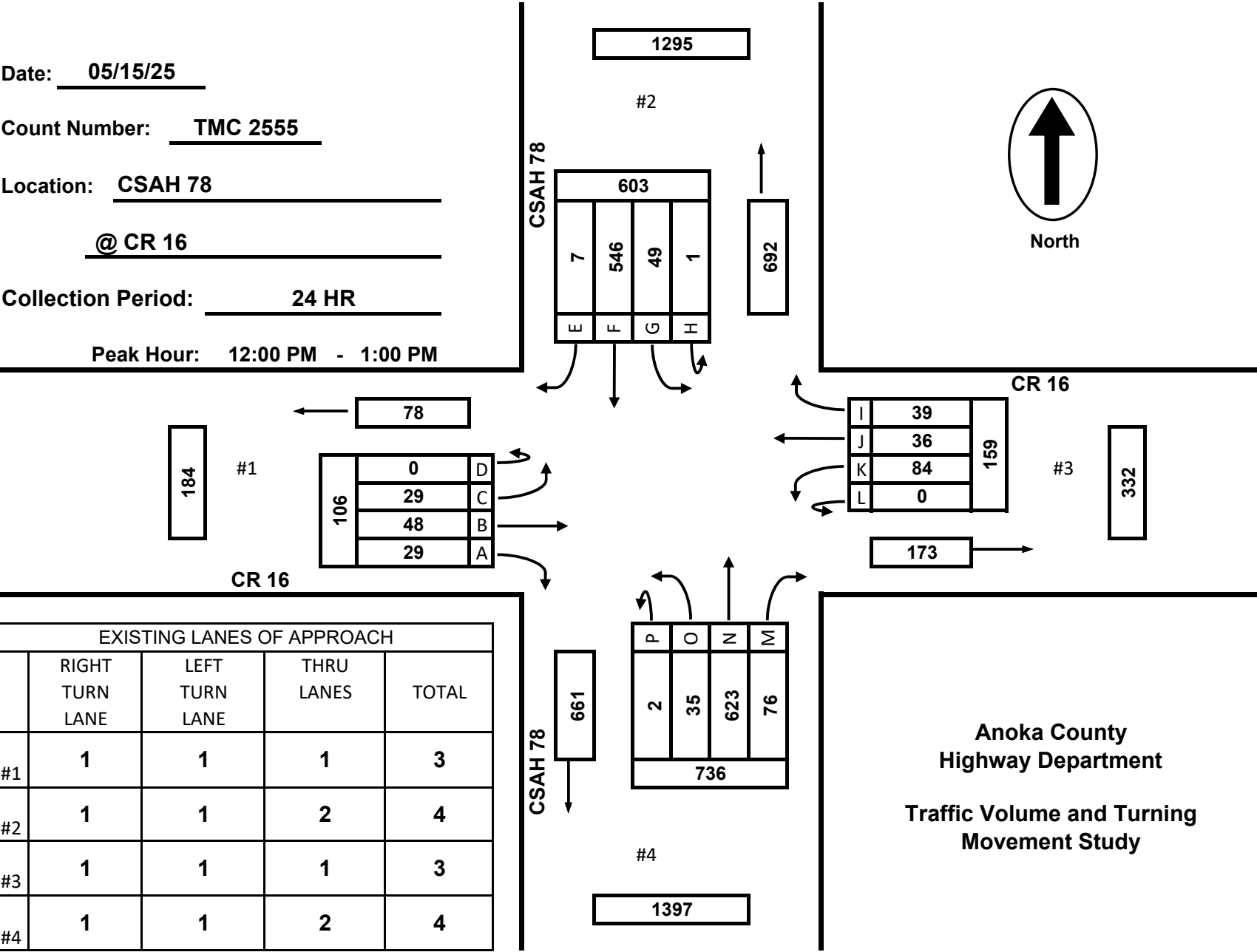
Date: 05/15/25
Count Number: TMC 2555
Location: CSAH 78
@ CR 16
Collection Period: 24 HR



Date: 05/15/25
Count Number: TMC 2555
Location: CSAH 78
@ CR 16
Collection Period: 24 HR
Peak Hour: 7:15 AM - 8:15 AM

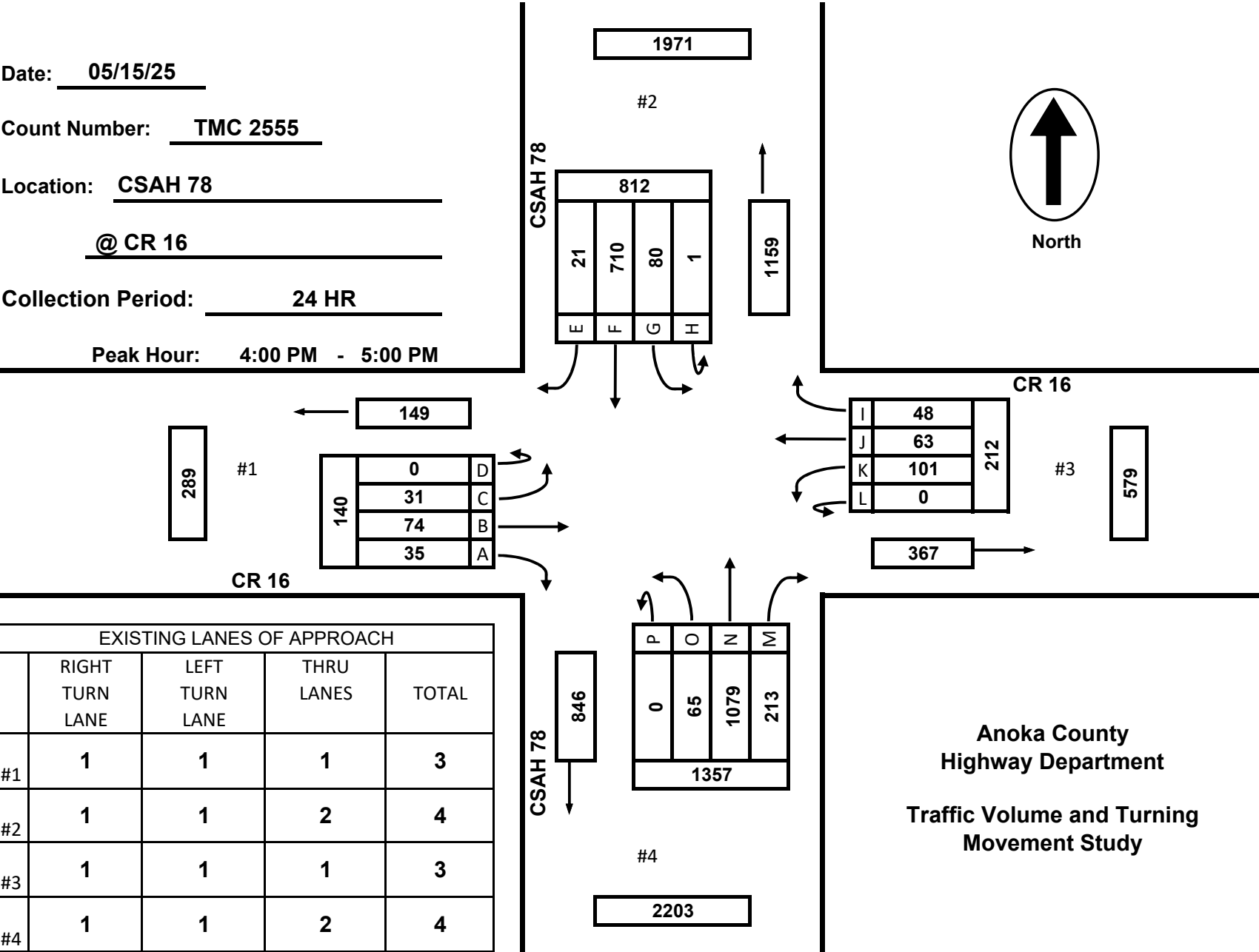


Date: 05/15/25
 Count Number: TMC 2555
 Location: CSAH 78
@ CR 16
 Collection Period: 24 HR
 Peak Hour: 12:00 PM - 1:00 PM



Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

Date: 05/15/25
Count Number: TMC 2555
Location: CSAH 78
@ CR 16
Collection Period: 24 HR
Peak Hour: 4:00 PM - 5:00 PM



TMC 2555 - CSAH 78 @ CR 16
Andover MN
Thursday, May 15, 2025

Time	Southbound CSAH 78						Westbound CR 16						Northbound CSAH 78						Eastbound CR 16						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	12	0	0	12	0	0	2	0	0	2	0	3	16	4	0	23	0	0	0	0	0	0	37
12:15 AM	0	0	7	1	0	8	0	0	0	1	0	1	0	1	20	4	0	25	0	1	1	0	0	2	36
12:30 AM	0	0	6	0	0	6	0	1	0	0	0	1	0	2	9	1	0	12	0	0	2	1	0	3	22
12:45 AM	0	0	6	0	0	6	0	1	0	2	0	3	0	0	12	3	0	15	0	0	0	2	0	2	26
Hourly Total	0	0	31	1	0	32	0	2	2	3	0	7	0	6	57	12	0	75	0	1	3	3	0	7	121
1:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	10	2	0	13	0	0	0	0	0	0	16
1:15 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	1	9	1	0	11	0	0	0	0	0	0	17
1:30 AM	0	0	0	0	0	0	0	1	1	0	0	2	0	0	8	2	0	10	0	0	0	0	0	0	12
1:45 AM	0	0	1	0	0	1	0	0	0	1	0	1	0	0	5	1	0	6	0	0	0	0	0	0	8
Hourly Total	0	0	10	0	0	10	0	1	1	1	0	3	0	2	32	6	0	40	0	0	0	0	0	0	53
2:00 AM	0	0	2	0	0	2	0	2	0	0	0	2	0	0	5	1	0	6	0	0	0	0	0	0	10
2:15 AM	0	0	4	0	0	4	0	0	1	0	0	1	0	0	4	1	0	5	0	0	0	0	0	0	10
2:30 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	8
2:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	3	0	5	0	0	0	0	0	0	8
Hourly Total	0	0	13	0	0	13	0	2	1	0	0	3	0	0	14	6	0	20	0	0	0	0	0	0	36
3:00 AM	0	1	5	0	0	6	0	5	0	0	0	5	0	1	2	1	0	4	0	0	1	0	0	1	16
3:15 AM	0	0	9	0	0	9	0	7	0	0	1	7	0	0	2	1	0	3	0	0	0	1	0	1	20
3:30 AM	0	0	9	0	0	9	0	4	0	0	0	4	0	0	1	1	0	2	0	0	1	0	0	1	16
3:45 AM	0	0	13	0	0	13	0	4	1	0	0	5	0	0	4	0	0	4	0	0	0	1	0	1	23
Hourly Total	0	1	36	0	0	37	0	20	1	0	1	21	0	1	9	3	0	13	0	0	2	2	0	4	75
4:00 AM	0	0	21	0	0	21	0	6	1	0	0	7	0	0	5	0	0	5	0	0	0	0	0	0	33
4:15 AM	0	1	25	0	0	26	0	3	1	0	0	4	0	0	9	2	0	11	0	0	0	2	0	2	43
4:30 AM	0	1	43	0	0	44	0	10	2	1	0	13	0	0	6	0	0	6	0	0	0	3	0	3	66
4:45 AM	0	0	45	0	0	45	0	14	6	1	0	21	0	1	12	1	0	14	0	0	2	3	0	5	85
Hourly Total	0	2	134	0	0	136	0	33	10	2	0	45	0	1	32	3	0	36	0	0	2	8	0	10	227
5:00 AM	0	0	64	0	0	64	0	13	4	2	0	19	0	0	4	2	0	6	0	0	1	1	0	2	91
5:15 AM	1	1	81	0	0	83	0	15	3	2	0	20	0	0	12	0	0	12	0	1	1	2	0	4	119
5:30 AM	0	1	132	1	0	134	0	33	3	1	0	37	0	0	17	0	0	17	0	0	3	4	0	7	195
5:45 AM	0	0	103	0	0	103	0	23	6	1	0	30	0	1	30	3	0	34	0	0	3	8	0	11	178
Hourly Total	1	2	380	1	0	384	0	84	16	6	0	106	0	1	63	5	0	69	0	1	8	15	0	24	583
6:00 AM	0	2	143	0	0	145	0	31	5	0	0	36	0	4	36	3	0	43	0	0	2	5	0	7	231
6:15 AM	0	5	193	1	0	199	0	37	4	4	0	45	0	4	43	9	0	56	0	2	6	12	0	20	320
6:30 AM	0	2	202	2	0	206	0	37	25	8	0	70	0	6	64	8	0	78	0	0	6	11	0	17	371
6:45 AM	0	6	261	2	0	269	0	47	9	17	0	73	0	10	99	12	0	121	0	1	9	17	0	27	490
Hourly Total	0	15	799	5	0	819	0	152	43	29	0	224	0	24	242	32	0	298	0	3	23	45	0	71	1412
7:00 AM	0	3	257	4	0	264	0	37	35	13	0	85	0	19	63	12	1	94	0	3	2	25	1	30	473
7:15 AM	0	4	270	14	1	288	0	59	68	13	0	140	0	33	99	18	0	150	0	6	21	32	0	59	637
7:30 AM	0	9	279	10	0	298	0	50	38	4	0	92	0	22	113	17	0	152	0	12	19	37	0	68	610
7:45 AM	0	10	233	0	1	243	0	35	12	25	0	72	0	10	146	21	1	177	0	15	12	17	0	44	536
Hourly Total	0	26	1039	28	2	1093	0	181	153	55	0	389	0	84	421	68	2	573	0	36	54	111	1	201	2256

TMC 2555 - CSAH 78 @ CR 16
Andover MN
Thursday, May 15, 2025

Time	Southbound CSAH 78						Westbound CR 16						Northbound CSAH 78						Eastbound CR 16						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	27	219	4	0	250	0	44	17	9	0	70	0	6	117	11	0	134	0	4	8	18	0	30	484
8:15 AM	0	13	220	2	0	235	0	30	9	12	0	51	0	5	120	15	0	140	0	4	6	9	1	19	445
8:30 AM	0	6	146	2	0	154	0	29	14	11	1	54	0	6	97	12	1	115	0	6	12	11	0	29	352
8:45 AM	0	5	171	1	1	177	0	32	21	22	1	75	0	12	120	8	0	140	0	6	5	9	0	20	412
Hourly Total	0	51	756	9	1	816	0	135	61	54	2	250	0	29	454	46	1	529	0	20	31	47	1	98	1693
9:00 AM	0	4	160	5	0	169	0	20	9	28	0	57	3	11	159	19	0	192	0	2	4	8	1	14	432
9:15 AM	0	12	213	11	0	236	0	24	11	46	0	81	0	5	175	17	0	197	0	7	9	4	0	20	534
9:30 AM	0	6	158	3	1	167	0	25	4	32	0	61	0	12	131	18	3	161	0	7	4	5	0	16	405
9:45 AM	0	3	120	1	0	124	0	15	13	16	0	44	0	2	141	15	0	158	0	1	1	6	0	8	334
Hourly Total	0	25	651	20	1	696	0	84	37	122	0	243	3	30	606	69	3	708	0	17	18	23	1	58	1705
10:00 AM	0	3	99	0	0	102	0	15	9	12	0	36	0	7	107	14	0	128	0	10	17	8	0	35	301
10:15 AM	0	7	124	1	0	132	0	18	6	15	0	39	1	9	112	15	1	137	0	5	4	5	1	14	322
10:30 AM	0	8	134	5	1	147	0	25	5	8	0	38	0	3	119	15	0	137	0	1	2	6	0	9	331
10:45 AM	0	1	149	1	0	151	0	12	9	10	0	31	0	8	126	12	1	146	0	7	2	2	0	11	339
Hourly Total	0	19	506	7	1	532	0	70	29	45	0	144	1	27	464	56	2	548	0	23	25	21	1	69	1293
11:00 AM	0	12	120	1	0	133	0	22	10	6	0	38	0	7	104	17	2	128	0	5	9	11	0	25	324
11:15 AM	0	7	148	2	0	157	0	21	9	8	1	38	0	4	102	12	0	118	0	9	7	13	0	29	342
11:30 AM	0	23	155	1	0	179	0	24	15	10	0	49	0	5	125	19	1	149	0	2	5	13	0	20	397
11:45 AM	0	18	173	3	0	194	0	18	3	10	1	31	0	2	135	18	0	155	0	9	10	15	0	34	414
Hourly Total	0	60	596	7	0	663	0	85	37	34	2	156	0	18	466	66	3	550	0	25	31	52	0	108	1477
12:00 PM	0	9	159	1	0	169	0	16	6	6	0	28	1	9	148	19	1	177	0	6	12	5	0	23	397
12:15 PM	0	19	124	2	0	145	0	20	8	13	0	41	0	9	148	18	0	175	0	5	11	6	0	22	383
12:30 PM	0	9	130	3	0	142	0	24	12	13	0	49	1	10	160	19	0	190	0	8	5	8	0	21	402
12:45 PM	1	12	133	1	0	147	0	24	10	7	0	41	0	7	167	20	0	194	0	10	20	10	0	40	422
Hourly Total	1	49	546	7	0	603	0	84	36	39	0	159	2	35	623	76	1	736	0	29	48	29	0	106	1604
1:00 PM	0	12	105	3	0	120	0	17	7	10	0	34	0	9	139	27	0	175	0	6	12	12	0	30	359
1:15 PM	0	13	134	1	0	148	0	21	6	12	0	39	1	13	121	24	0	159	0	5	14	10	0	29	375
1:30 PM	0	8	135	4	0	147	0	12	7	9	0	28	0	7	147	21	0	175	0	9	14	9	0	32	382
1:45 PM	0	8	142	2	0	152	0	27	8	11	0	46	0	8	157	17	0	182	0	6	11	8	0	25	405
Hourly Total	0	41	516	10	0	567	0	77	28	42	0	147	1	37	564	89	0	691	0	26	51	39	0	116	1521
2:00 PM	0	24	155	3	1	182	0	20	4	10	0	34	1	9	155	28	0	193	0	5	13	7	0	25	434
2:15 PM	1	20	111	3	0	135	0	13	11	7	1	31	0	11	178	26	0	215	0	38	29	23	1	90	471
2:30 PM	0	53	213	5	0	271	0	16	16	20	0	52	0	16	266	34	3	316	0	36	54	43	0	133	772
2:45 PM	0	15	114	3	0	132	0	14	13	9	0	36	0	10	193	31	0	234	0	8	12	17	0	37	439
Hourly Total	1	112	593	14	1	720	0	63	44	46	1	153	1	46	792	119	3	958	0	87	108	90	1	285	2116
3:00 PM	0	10	101	2	0	113	0	19	15	18	0	52	0	6	195	24	0	225	0	5	16	15	0	36	426
3:15 PM	0	14	149	5	0	168	0	27	15	9	1	51	1	16	217	42	1	276	0	7	12	4	0	23	518
3:30 PM	0	9	138	4	0	151	0	21	17	13	0	51	1	23	242	24	0	290	0	9	21	15	0	45	537
3:45 PM	0	5	120	3	0	128	0	27	23	15	0	65	0	8	254	40	0	302	0	3	15	8	0	26	521
Hourly Total	0	38	508	14	0	560	0	94	70	55	1	219	2	53	908	130	1	1093	0	24	64	42	0	130	2002

TMC 2555 - CSAH 78 @ CR 16
Andover MN
Thursday, May 15, 2025

Time	Southbound CSAH 78						Westbound CR 16						Northbound CSAH 78						Eastbound CR 16						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	32	174	8	0	214	0	17	19	14	0	50	0	18	262	64	0	344	0	4	15	13	0	32	640
4:15 PM	1	23	188	8	0	220	0	30	18	11	0	59	0	23	273	44	0	340	0	12	16	7	0	35	654
4:30 PM	0	14	166	3	1	183	0	27	13	9	0	49	0	13	267	54	0	334	0	5	25	8	0	38	604
4:45 PM	0	11	182	2	0	195	0	27	13	14	1	54	0	11	277	51	1	339	0	10	18	7	0	35	623
Hourly Total	1	80	710	21	1	812	0	101	63	48	1	212	0	65	1079	213	1	1357	0	31	74	35	0	140	2521
5:00 PM	0	22	143	4	0	169	0	27	18	13	0	58	0	13	263	49	0	325	0	4	15	12	0	31	583
5:15 PM	0	15	174	1	1	190	0	28	25	14	1	67	0	15	267	54	1	336	0	6	22	17	0	45	638
5:30 PM	0	10	143	2	2	155	0	23	16	15	2	54	0	23	211	28	0	262	0	6	17	14	0	37	508
5:45 PM	0	7	156	1	0	164	0	29	29	18	0	76	0	24	253	56	1	333	0	3	14	8	0	25	598
Hourly Total	0	54	616	8	3	678	0	107	88	60	3	255	0	75	994	187	2	1256	0	19	68	51	0	138	2327
6:00 PM	0	7	156	2	0	165	0	20	21	18	0	59	1	11	209	39	0	260	0	2	26	16	0	44	528
6:15 PM	0	11	104	4	0	119	0	21	29	21	0	71	0	22	209	30	0	261	0	4	8	12	0	24	475
6:30 PM	0	11	130	1	1	142	0	26	30	9	1	65	0	36	183	26	0	245	0	6	20	12	0	38	490
6:45 PM	0	6	98	1	0	105	0	27	23	19	0	69	0	17	151	32	0	200	0	3	13	8	1	24	398
Hourly Total	0	35	488	8	1	531	0	94	103	67	1	264	1	86	752	127	0	966	0	15	67	48	1	130	1891
7:00 PM	0	19	95	3	0	117	0	25	12	14	1	51	2	13	144	21	0	180	0	8	22	12	0	42	390
7:15 PM	0	20	106	3	0	129	0	21	14	8	0	43	1	11	105	29	0	146	0	12	20	6	0	38	356
7:30 PM	0	12	103	1	0	116	0	9	5	4	0	18	0	14	134	23	0	171	0	13	10	5	0	28	333
7:45 PM	0	12	118	1	0	131	0	14	11	14	0	39	1	9	252	24	0	286	0	3	10	1	0	14	470
Hourly Total	0	63	422	8	0	493	0	69	42	40	1	151	4	47	635	97	0	783	0	36	62	24	0	122	1549
8:00 PM	0	11	88	0	1	99	0	14	4	10	0	28	0	4	118	21	0	143	0	4	11	11	0	26	296
8:15 PM	0	11	73	2	0	86	0	16	6	6	1	28	0	5	128	30	0	163	0	3	11	4	0	18	295
8:30 PM	0	14	76	0	0	90	0	11	2	2	0	15	1	6	100	24	0	131	0	6	18	7	0	31	267
8:45 PM	0	9	65	1	0	75	0	12	3	3	0	18	1	7	134	27	0	169	0	5	27	24	0	56	318
Hourly Total	0	45	302	3	1	350	0	53	15	21	1	89	2	22	480	102	0	606	0	18	67	46	0	131	1176
9:00 PM	0	3	51	0	0	54	0	6	3	0	0	9	0	4	108	33	0	145	0	3	4	12	0	19	227
9:15 PM	0	8	34	0	0	42	0	10	2	4	1	16	0	4	95	21	0	120	0	2	6	4	0	12	190
9:30 PM	0	5	45	1	0	51	0	5	2	1	0	8	0	6	72	10	0	88	0	3	5	3	0	11	158
9:45 PM	0	4	24	0	0	28	0	8	2	1	0	11	0	1	57	20	0	78	0	0	0	1	0	1	118
Hourly Total	0	20	154	1	0	175	0	29	9	6	1	44	0	15	332	84	0	431	0	8	15	20	0	43	693
10:00 PM	0	0	32	1	0	33	0	9	1	3	0	13	0	5	55	15	0	75	0	2	4	3	0	9	130
10:15 PM	0	2	17	0	0	19	0	1	0	1	0	2	0	4	50	13	0	67	0	0	3	2	0	5	93
10:30 PM	0	3	24	0	0	27	0	1	2	0	0	3	0	3	42	10	0	55	0	0	2	0	0	2	87
10:45 PM	0	1	19	0	0	20	0	0	3	1	0	4	0	2	42	7	0	51	0	0	4	1	0	5	80
Hourly Total	0	6	92	1	0	99	0	11	6	5	0	22	0	14	189	45	0	248	0	2	13	6	0	21	390
11:00 PM	0	3	18	0	0	21	0	0	0	3	0	3	0	3	34	7	0	44	0	1	0	2	0	3	71
11:15 PM	0	1	20	0	0	21	0	2	1	0	0	3	0	1	36	8	0	45	0	0	2	1	0	3	72
11:30 PM	0	0	16	0	0	16	0	2	0	2	0	4	0	0	33	4	0	37	0	0	3	1	0	4	61
11:45 PM	0	1	11	1	0	13	0	6	1	0	0	7	0	0	13	5	0	18	0	2	2	0	0	4	42
Hourly Total	0	5	65	1	0	71	0	10	2	5	0	17	0	4	116	24	0	144	0	3	7	4	0	14	246
DAILY TOTAL	4	749	9963	174	12	10890	0	1641	897	785	15	3323	17	722	10324	1665	19	12728	0	424	841	761	6	2026	28967
Cars	4	729	9795	171	4	10699	0	1625	877	765	6	3267	17	716	10144	1642	8	12519	0	325	819	751	2	1895	28380
Heavy Vehicles	0	20	168	3	8	191	0	16	20	20	9	56	0	6	180	23	11	209	0	99	22	10	4	131	587
Heavy Vehicle %	0.00%	2.67%	1.69%	1.72%	66.67%	1.75%	0.00%	0.98%	2.23%	2.55%	60.00%	1.69%	0.00%	0.83%	1.74%	1.38%	57.89%	1.64%	0.00%	23.35%	2.62%	1.31%	66.67%	6.47%	2.03%

TMC 2555 - CSAH 78 @ CR 16
Andover MN
Thursday, May 15, 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	4	270	14	1	288	0	59	68	13	0	140	0	33	99	18	0	150	0	6	21	32	0	59	637
7:30 AM	0	9	279	10	0	298	0	50	38	4	0	92	0	22	113	17	0	152	0	12	19	37	0	68	610
7:45 AM	0	10	233	0	1	243	0	35	12	25	0	72	0	10	146	21	1	177	0	15	12	17	0	44	536
8:00 AM	0	27	219	4	0	250	0	44	17	9	0	70	0	6	117	11	0	134	0	4	8	18	0	30	484
Peak Hour Total	0	50	1001	28	2	1079	0	188	135	51	0	374	0	71	475	67	1	613	0	37	60	104	0	201	2267
Peak Hour Heavy Vehicles	0	3	9	1	2	13	0	1	4	1	0	6	0	0	7	4	2	11	0	10	5	3	0	18	48
Peak Hour Heavy Vehicles %	0.00%	6.00%	0.90%	3.57%	100.00%	1.20%	0.00%	0.53%	2.96%	1.96%	0.00%	1.60%	0.00%	0.00%	1.47%	5.97%	200.00%	1.79%	0.00%	27.03%	8.33%	2.88%	0.00%	8.96%	2.12%
PHF	0.000	0.463	0.897	0.500	0.500	0.905	0.000	0.797	0.496	0.510	0.000	0.668	0.000	0.538	0.813	0.798	0.250	0.866	0.000	0.617	0.714	0.703	0.000	0.739	0.890

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	
12:00 PM	0	9	159	1	0	169	0	16	6	6	0	28	1	9	148	19	1	177	0	6	12	5	0	23	397
12:15 PM	0	19	124	2	0	145	0	20	8	13	0	41	0	9	148	18	0	175	0	5	11	6	0	22	383
12:30 PM	0	9	130	3	0	142	0	24	12	13	0	49	1	10	160	19	0	190	0	8	5	8	0	21	402
12:45 PM	1	12	133	1	0	147	0	24	10	7	0	41	0	7	167	20	0	194	0	10	20	10	0	40	422
Peak Hour Total	1	49	546	7	0	603	0	84	36	39	0	159	2	35	623	76	1	736	0	29	48	29	0	106	1604
Peak Hour Heavy Vehicles	0	1	9	1	0	11	0	1	1	0	0	3	0	0	10	1	0	11	0	9	1	0	0	10	35
Peak Hour Heavy Vehicles %	0.00%	2.04%	1.65%	14.29%	0.00%	1.82%	0.00%	1.19%	2.78%	2.56%	0.00%	1.89%	0.00%	0.00%	1.61%	1.32%	0.00%	1.49%	0.00%	31.03%	2.08%	0.00%	0.00%	9.43%	2.18%
PHF	0.250	0.645	0.858	0.583	0.000	0.892	0.000	0.875	0.750	0.750	0.000	0.811	0.500	0.875	0.933	0.950	0.250	0.948	0.000	0.725	0.600	0.725	0.000	0.663	0.950

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	
4:00 PM	0	32	174	8	0	214	0	17	19	14	0	50	0	18	262	64	0	344	0	4	15	13	0	32	640
4:15 PM	1	23	188	8	0	220	0	30	18	11	0	59	0	23	273	44	0	340	0	12	16	7	0	35	654
4:30 PM	0	14	166	3	1	183	0	27	13	9	0	49	0	13	267	54	0	334	0	5	25	8	0	38	604
4:45 PM	0	11	182	2	0	195	0	27	13	14	1	54	0	11	277	51	1	339	0	10	18	7	0	35	623
Peak Hour Total	1	80	710	21	1	812	0	101	63	48	1	212	0	65	1079	213	1	1357	0	31	74	35	0	140	2521
Peak Hour Heavy Vehicles	0	5	18	0	1	23	0	4	3	1	1	8	0	1	8	1	1	10	0	10	3	1	0	14	55
Peak Hour Heavy Vehicles %	0.00%	6.25%	2.54%	0.00%	100.00%	2.83%	0.00%	3.96%	4.76%	2.08%	100.00%	3.77%	0.00%	1.54%	0.74%	0.47%	100.00%	0.74%	0.00%	32.26%	4.05%	2.86%	0.00%	10.00%	2.18%
PHF	0.250	0.625	0.944	0.656	0.250	0.923	0.000	0.842	0.829	0.857	0.250	0.898	0.000	0.707	0.974	0.832	0.250	0.986	0.000	0.646	0.740	0.673	0.000	0.921	0.964

Total Vehicles On Leg		22427	
Vehicles Entering Intersection	10890	Vehicles Exiting Intersection	11537
Southbound			
Cars	171	9795	729
Heavy	3	168	20
Total	174	9963	749

Total Vehicles on Leg 3819	Entering Intersection 2026	Eastbound	Cars	Heavy	Total
			2	4	6
			0	0	0
	Exiting Intersection 1793		325	99	424
			819	22	841
			751	10	761

Daily Volumes

Cars	Heavy	Total	Westbound	Entering Intersection 3323	Total Vehicles on Leg 6578
765	20	785			
877	20	897			
1625	16	1641		Exiting Intersection 3255	
0	0	0			
6	9	15			

Cars	8	17	716	10144	1642
Heavy	11	0	1	180	23
Total	19	17	722	10324	1665
Northbound					
Vehicles Entering Intersection			Vehicles Exiting Intersection		
12728			12382		
Total Vehicles On Leg			25110		

**TMC 2555 - CSAH 78 @ CR 16
Andover MN
Thursday, May 15, 2025**

Time	Southbound Heavy CSAH 78						Westbound Heavy CR 16						Northbound Heavy CSAH 78						Eastbound Heavy CR 16						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	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	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	
2:00 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	
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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	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	
3:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
3:15 AM	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	
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	2	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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	3	0	0	3	0	0	0	0	0	0	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	1	0	0	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	1	3	0	0	4	0	0	0	0	0	0	0	4
5:00 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	
5:15 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	
5:30 AM	0	0	0	1	0	1	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	3	
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	0	0	1	1	0	2	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	5
6:00 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	4	
6:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	5	
6:30 AM	0	0	8	0	0	8	0	0	0	0	0	0	0	0	5	1	0	6	0	0	0	0	0	0	14	
6:45 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	5	1	0	6	0	0	1	0	0	1	11	
Hourly 'Heavy Vehicles'	0	0	16	0	0	16	0	0	0	0	0	0	0	0	15	2	0	17	0	0	1	0	0	1	34	
7:00 AM	0	0	2	0	0	2	0	0	0	1	0	1	0	0	6	1	1	7	0	1	0	0	1	1	11	
7:15 AM	0	0	3	0	1	3	0	0	0	1	0	1	0	0	2	1	0	3	0	0	3	0	0	3	10	
7:30 AM	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	2	0	3	0	5	2	2	0	9	14	
7:45 AM	0	1	3	0	1	4	0	1	2	0	0	3	0	0	2	1	1	3	0	4	0	0	0	4	14	
Hourly 'Heavy Vehicles'	0	1	9	0	2	10	0	1	3	2	0	6	0	0	11	5	2	16	0	10	5	2	1	17	49	

**TMC 2555 - CSAH 78 @ CR 16
Andover MN
Thursday, May 15, 2025**

Time	Southbound Heavy CSAH 78						Westbound Heavy CR 16						Northbound Heavy CSAH 78						Eastbound Heavy CR 16						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'	
8:00 AM	0	2	2	1	0	5	0	0	1	0	0	1	0	0	2	0	0	2	0	1	0	1	0	2	10
8:15 AM	0	1	5	0	0	6	0	1	0	0	0	1	0	0	3	0	0	3	0	1	1	1	1	3	13
8:30 AM	0	1	2	0	0	3	0	0	2	1	1	3	0	0	3	2	0	5	0	5	4	0	0	9	20
8:45 AM	0	0	1	0	0	1	0	2	0	2	0	4	0	1	8	1	0	10	0	0	0	0	0	0	15
Hourly 'Heavy Vehicles'	0	4	10	1	0	15	0	3	3	3	1	9	0	1	16	3	0	20	0	7	5	2	1	14	58
9:00 AM	0	0	1	0	0	1	0	0	1	1	0	2	0	0	7	1	0	8	0	0	1	0	0	1	12
9:15 AM	0	0	29	0	0	29	0	0	1	1	0	2	0	0	3	0	0	3	0	6	0	0	0	6	40
9:30 AM	0	1	9	0	1	10	0	0	0	3	0	3	0	0	5	0	0	5	0	2	0	0	0	2	20
9:45 AM	0	0	5	0	0	5	0	1	0	2	0	3	0	0	3	0	0	3	0	0	0	0	0	0	11
Hourly 'Heavy Vehicles'	0	1	44	0	1	45	0	1	2	7	0	10	0	0	18	1	0	19	0	8	1	0	0	9	83
10:00 AM	0	0	1	0	0	1	0	0	1	0	0	1	0	0	5	0	0	5	0	6	0	0	0	6	13
10:15 AM	0	0	1	0	0	1	0	1	0	0	0	1	0	0	5	1	1	6	0	2	0	0	1	2	10
10:30 AM	0	0	3	0	1	3	0	1	1	1	0	3	0	0	2	0	0	2	0	0	0	0	0	0	8
10:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	1	3	0	3	0	0	0	3	7
Hourly 'Heavy Vehicles'	0	0	6	0	1	6	0	2	2	1	0	5	0	0	15	1	2	16	0	11	0	0	1	11	38
11:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	3	0	0	0	3	5
11:15 AM	0	0	3	0	0	3	0	1	0	0	0	1	0	0	4	0	0	4	0	3	0	0	0	3	11
11:30 AM	0	0	3	0	0	3	0	0	1	0	0	1	0	0	3	0	1	3	0	1	0	0	0	1	8
11:45 AM	0	0	3	0	0	3	0	0	0	1	0	1	0	0	2	0	0	2	0	1	0	0	0	1	7
Hourly 'Heavy Vehicles'	0	0	10	0	0	10	0	1	1	1	0	3	0	0	10	0	1	10	0	8	0	0	0	8	31
12:00 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	0	1	4	0	4	0	0	0	4	10
12:15 PM	0	0	1	1	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1	0	0	2	5
12:30 PM	0	1	4	0	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	2	8
12:45 PM	0	0	2	0	0	2	0	1	1	0	0	2	0	0	5	1	0	6	0	2	0	0	0	2	12
Hourly 'Heavy Vehicles'	0	1	9	1	0	11	0	1	1	1	0	3	0	0	10	1	1	11	0	9	1	0	0	10	35
1:00 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	4	1	0	6	0	4	0	0	0	4	13
1:15 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	0	0	4	0	1	0	0	0	1	7
1:30 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	3	0	0	0	3	7
1:45 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	13	0	0	13	0	5	1	0	0	6	22
Hourly 'Heavy Vehicles'	0	0	11	0	0	11	0	0	0	0	0	0	0	1	22	1	0	24	0	13	1	0	0	14	49
2:00 PM	0	0	1	0	1	1	0	0	1	0	0	1	0	0	3	0	0	3	0	1	0	0	0	1	6
2:15 PM	0	0	1	0	0	1	0	0	0	0	1	0	0	0	7	1	0	8	0	3	2	1	1	6	15
2:30 PM	0	0	2	0	0	2	0	0	1	1	0	2	0	0	3	1	3	4	0	6	2	2	0	10	18
2:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	1	0	4	0	1	0	0	0	1	6
Hourly 'Heavy Vehicles'	0	0	5	0	1	5	0	0	2	1	1	3	0	0	16	3	3	19	0	11	4	3	1	18	45
3:00 PM	0	0	3	0	0	3	0	1	0	0	0	1	0	0	5	2	0	7	0	2	0	0	0	2	13
3:15 PM	0	5	1	0	0	6	0	1	0	0	1	1	0	1	4	0	1	5	0	3	0	0	0	3	15
3:30 PM	0	1	1	0	0	2	0	0	0	3	0	3	0	1	9	2	0	12	0	3	0	1	0	4	21
3:45 PM	0	0	2	0	0	2	0	0	2	0	0	2	0	0	3	0	0	3	0	2	0	0	0	2	9
Hourly 'Heavy Vehicles'	0	6	7	0	0	13	0	2	2	3	1	7	0	2	21	4	1	27	0	10	0	1	0	11	58

TMC 2555 - CSAH 78 @ CR 16
Andover MN
Thursday, May 15, 2025

Time	Southbound Heavy CSAH 78						Westbound Heavy CR 16						Northbound Heavy CSAH 78						Eastbound Heavy CR 16						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	3	1	0	0	4	0	0	1	0	0	1	0	0	4	0	0	4	0	1	0	0	0	1	10
4:15 PM	0	2	4	0	0	6	0	2	0	0	0	2	0	1	3	0	0	4	0	5	0	1	0	6	18
4:30 PM	0	0	7	0	1	7	0	1	2	0	0	3	0	0	1	0	0	1	0	1	2	0	0	3	14
4:45 PM	0	0	6	0	0	6	0	1	0	1	1	2	0	0	0	1	1	1	0	3	1	0	0	4	13
Hourly 'Heavy Vehicles'	0	5	18	0	1	23	0	4	3	1	1	8	0	1	8	1	1	10	0	10	3	1	0	14	55
5:00 PM	0	1	9	0	0	10	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	13
5:15 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	6
5:30 PM	0	1	1	0	1	2	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	3
5:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	2	14	0	1	16	0	0	1	0	1	1	0	0	6	1	0	7	0	2	0	0	0	2	26
6:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
6:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
6:30 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
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	1	0	1	5
7:00 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
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	2	0	0	2	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	2	0	0	0	0	0	0	2
8:00 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
8:15 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
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	1	0	0	1	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1
9:00 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
9:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1
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	1	0	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	2
10:00 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
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	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	0	0	0	0	0	0	1	0	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	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
DAILY 'Heavy Vehicles'	0	20	168	3	8	191	0	16	20	20	9	56	0	6	180	23	11	209	0	99	22	10	4	131	587

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2555

Study Date : 06/02/2025

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 78

Number of Lanes : 2+

Total Approach Volume: 12,728

Southbound: CSAH 78

Number of Lanes :2+

Total Approach Volume: 10,890

Minor Street Approaches

Eastbound: Andover Blvd

Number of Lanes :2+

Total Approach Volume: 1,265

Westbound: CR 16

Number of Lanes :2+

Total Approach Volume: 2,538

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 9 hours, 8 are needed

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

Required volumes reached for 16 hours, 8 are needed

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

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

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

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

Number of hours (15) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (31) 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 2555

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

9 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						Andover Blvd		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
15:45 - 16:45	1320	+	745	=	2065	95	174	Yes
16:45 - 17:45	1262	+	709	=	1971	98	177	Yes
17:45 - 18:45	1099	+	590	=	1689	83	205	Yes
13:45 - 14:45	906	+	740	=	1646	192	115	Yes
07:30 - 08:30	603	+	1026	=	1629	80	235	Yes
14:45 - 15:45	1025	+	564	=	1589	90	141	Yes
06:30 - 07:30	443	+	1027	=	1470	48	317	Yes
08:30 - 09:30	644	+	736	=	1380	51	160	Yes
05:30 - 06:30	150	+	581	=	731	16	142	Yes
13:30 - 14:30	765	+	616	=	1381	125	102	No
11:45 - 12:45	697	+	650	=	1347	66	107	No
11:30 - 12:30	656	+	687	=	1343	60	110	No
12:00 - 13:00	736	+	603	=	1339	77	120	No
13:15 - 14:15	709	+	629	=	1338	77	105	No
11:15 - 12:15	599	+	699	=	1298	60	112	No
12:15 - 13:15	734	+	554	=	1288	77	122	No
19:00 - 20:00	783	+	493	=	1276	98	111	No
12:30 - 13:30	718	+	557	=	1275	80	121	No
12:45 - 13:45	703	+	562	=	1265	90	104	No
13:00 - 14:00	691	+	567	=	1258	77	105	No
19:15 - 20:15	746	+	475	=	1221	83	92	No
11:00 - 12:00	550	+	663	=	1213	56	122	No
19:30 - 20:30	763	+	432	=	1195	65	79	No
18:45 - 19:45	697	+	467	=	1164	101	136	No
10:45 - 11:45	541		620		1161	46	122	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2555

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

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 = **630**

Veh/Hr Minor = **70**

Major Road						Minor Road		
CSAH 78						Andover Blvd		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	1334	+	737	=	2071	105	178	Yes
15:30 - 16:30	1276	+	713	=	1989	95	172	Yes
14:30 - 15:30	1051	+	684	=	1735	150	135	Yes
17:30 - 18:30	1116	+	603	=	1719	80	188	Yes
07:30 - 08:30	603	+	1026	=	1629	80	235	Yes
06:30 - 07:30	443	+	1027	=	1470	48	317	Yes
13:30 - 14:30	765	+	616	=	1381	125	102	Yes
08:30 - 09:30	644	+	736	=	1380	51	160	Yes
11:30 - 12:30	656	+	687	=	1343	60	110	Yes
12:30 - 13:30	718	+	557	=	1275	80	121	Yes
18:30 - 19:30	771	+	493	=	1264	104	178	Yes
19:30 - 20:30	763	+	432	=	1195	65	79	Yes
10:30 - 11:30	529	+	588	=	1117	42	113	Yes
09:30 - 10:30	584	+	525	=	1109	49	105	Yes
20:30 - 21:30	565	+	261	=	826	71	49	Yes
05:30 - 06:30	150	+	581	=	731	16	142	Yes
05:15 - 06:15	106	+	465	=	571	10	119	No
05:00 - 06:00	69	+	384	=	453	9	100	No
21:30 - 22:30	308	+	131	=	439	17	28	No
21:45 - 22:45	275	+	107	=	382	11	24	No
04:45 - 05:45	49	+	326	=	375	8	91	No
22:00 - 23:00	248	+	99	=	347	15	17	No
22:15 - 23:15	217	+	87	=	304	10	7	No
22:30 - 23:30	195	+	89	=	284	9	9	No
04:30 - 05:30	38		236		274	5	67	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2555

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

13 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						Andover Blvd					
Time	Major NB	+	Major SB	=	Total		Minor EB		Minor WB		Met1A?
16:30 - 17:30	1334	+	737	=	2071		105		178		Yes
15:30 - 16:30	1276	+	713	=	1989		95		172		Yes
14:30 - 15:30	1051	+	684	=	1735		150		135		Yes
17:30 - 18:30	1116	+	603	=	1719		80		188		Yes
07:15 - 08:15	613	+	1079	=	1692		97		323		Yes
13:30 - 14:30	765	+	616	=	1381		125		102		Yes
12:00 - 13:00	736	+	603	=	1339		77		120		Yes
08:15 - 09:15	587	+	735	=	1322		45		164		Yes
06:15 - 07:15	349	+	938	=	1287		29		231		Yes
09:15 - 10:15	644	+	629	=	1273		56		116		Yes
18:30 - 19:30	771	+	493	=	1264		104		178		Yes
10:30 - 11:30	529		588		1117		42		113		Yes

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?	
16:15 - 17:15	1338	+	767	=	2105	105	173	Yes	
15:15 - 16:15	1212	+	661	=	1873	86	166	Yes	
17:15 - 18:15	1191	+	674	=	1865	96	191	Yes	
07:15 - 08:15	613	+	1079	=	1692	97	323	Yes	
14:15 - 15:15	990	+	651	=	1641	198	117	Yes	
18:15 - 19:15	886	+	483	=	1369	84	193	Yes	
13:15 - 14:15	709	+	629	=	1338	77	105	Yes	
08:15 - 09:15	587	+	735	=	1322	45	164	Yes	
11:15 - 12:15	599	+	699	=	1298	60	112	Yes	
12:15 - 13:15	734	+	554	=	1288	77	122	Yes	
06:15 - 07:15	349	+	938	=	1287	29	231	Yes	
09:15 - 10:15	644	+	629	=	1273	56	116	Yes	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2555

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.

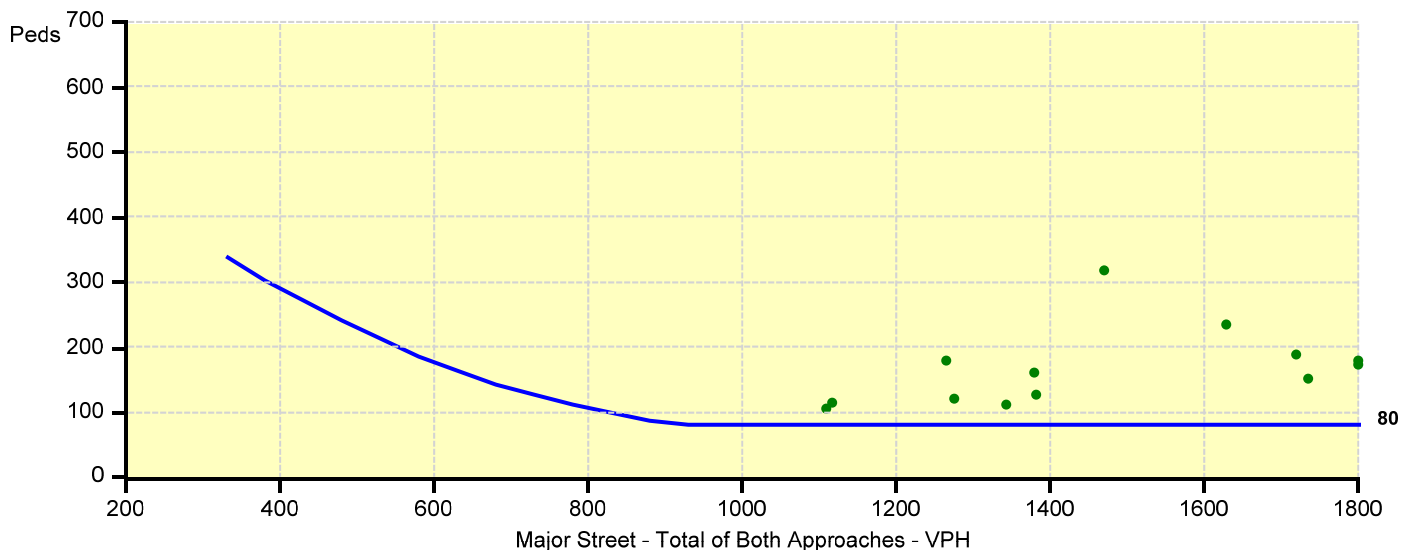
Summary

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**

Major Road CSAH 78						Minor Road Andover Blvd		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	1334	+	737	=	2071	105	178	Yes
15:30 - 16:30	1276	+	713	=	1989	95	172	Yes
14:30 - 15:30	1051	+	684	=	1735	150	135	Yes
17:30 - 18:30	1116	+	603	=	1719	80	188	Yes
07:30 - 08:30	603	+	1026	=	1629	80	235	Yes
06:30 - 07:30	443	+	1027	=	1470	48	317	Yes
13:30 - 14:30	765	+	616	=	1381	125	102	Yes
08:30 - 09:30	644	+	736	=	1380	51	160	Yes
11:30 - 12:30	656	+	687	=	1343	60	110	Yes
12:30 - 13:30	718	+	557	=	1275	80	121	Yes
18:30 - 19:30	771	+	493	=	1264	104	178	Yes
10:30 - 11:30	529	+	588	=	1117	42	113	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2555

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

50 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 CSAH 78						Minor Road Andover Blvd		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:00 - 17:00	1357	+	812	=	2169	105	164	Yes
16:15 - 17:15	1338	+	767	=	2105	105	173	Yes
16:30 - 17:30	1334	+	737	=	2071	105	178	Yes
15:45 - 16:45	1320	+	745	=	2065	95	174	Yes
15:30 - 16:30	1276	+	713	=	1989	95	172	Yes
16:45 - 17:45	1262	+	709	=	1971	98	177	Yes
17:00 - 18:00	1256	+	678	=	1934	87	195	Yes
15:15 - 16:15	1212	+	661	=	1873	86	166	Yes
17:15 - 18:15	1191	+	674	=	1865	96	191	Yes
14:30 - 15:30	1051	+	684	=	1735	150	135	Yes
17:30 - 18:30	1116	+	603	=	1719	80	188	Yes
07:15 - 08:15	613		1079		1692	97	323	Yes

