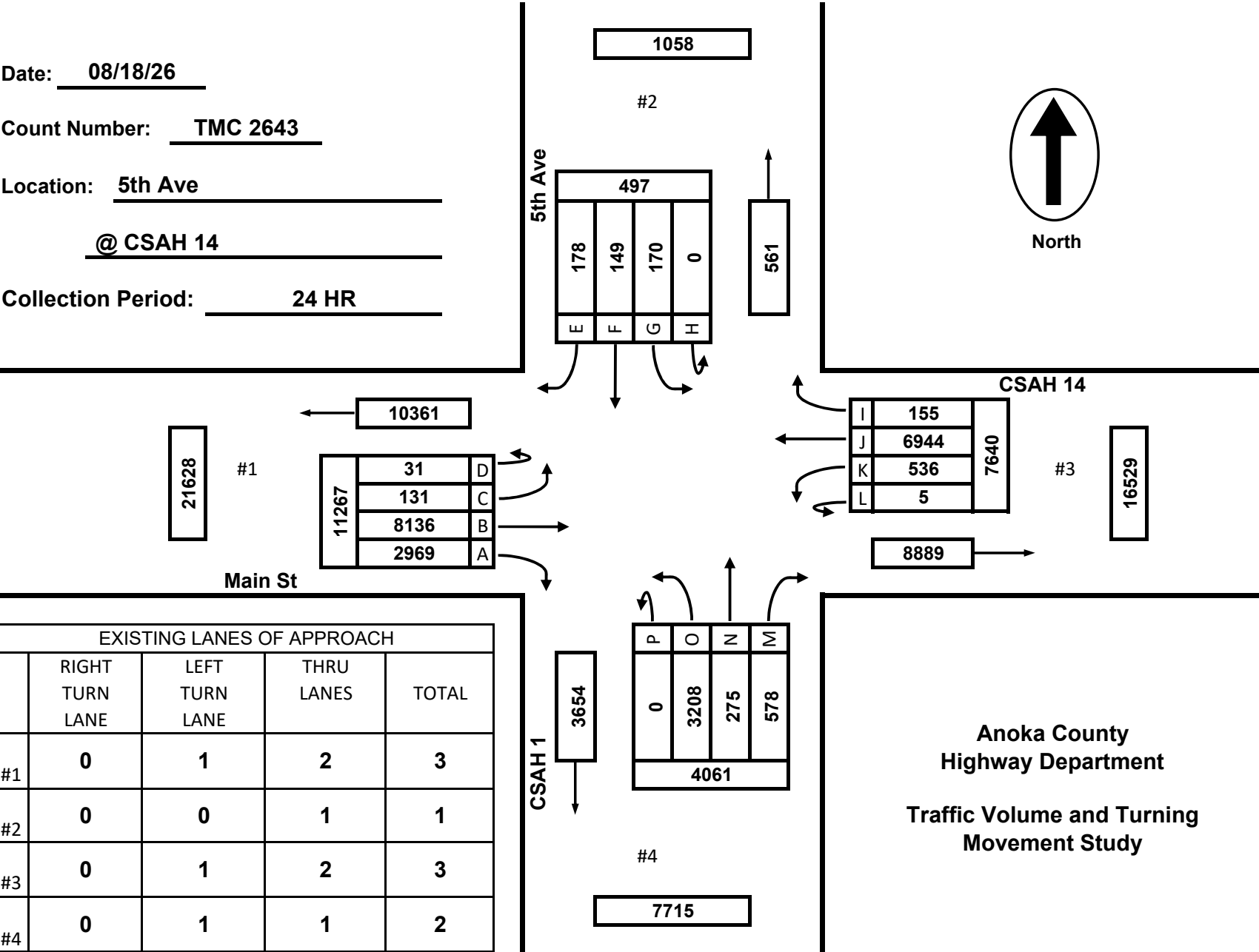


Date: 08/18/26

Count Number: TMC 2643

Location: 5th Ave
@ CSAH 14

Collection Period: 24 HR



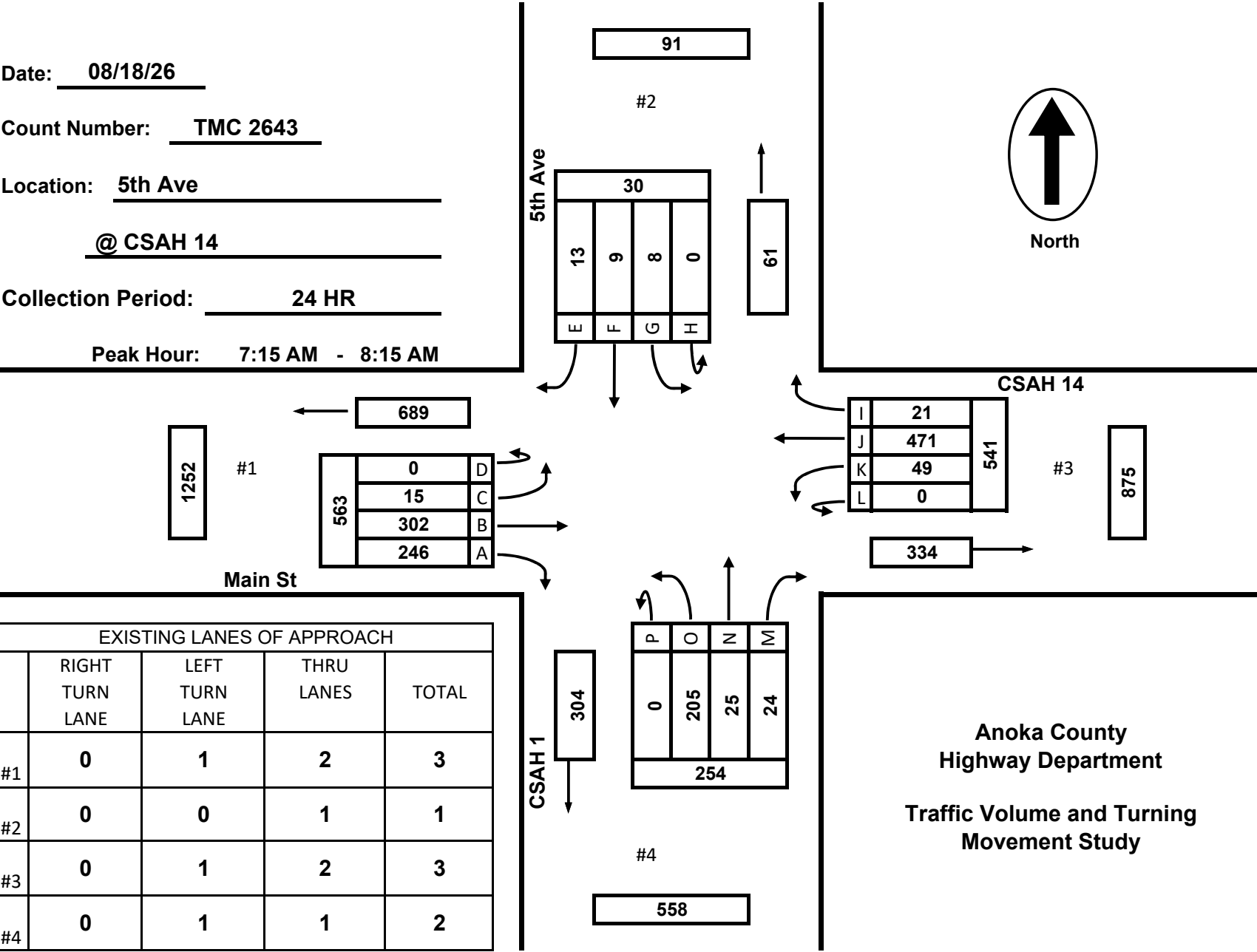
Date: 08/18/26

Count Number: TMC 2643

Location: 5th Ave
@ CSAH 14

Collection Period: 24 HR

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



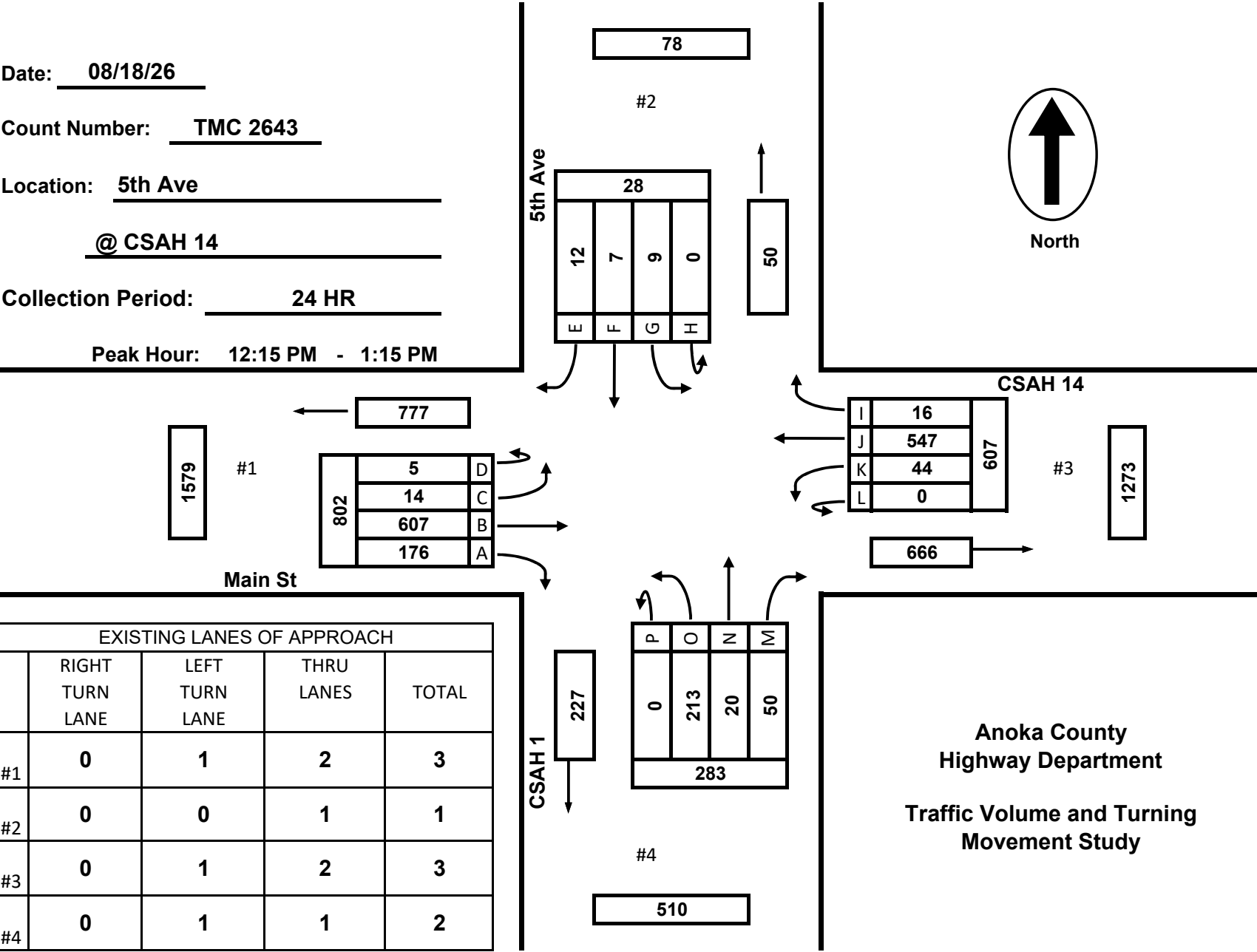
Date: 08/18/26

Count Number: TMC 2643

Location: 5th Ave
@ CSAH 14

Collection Period: 24 HR

Peak Hour: 12:15 PM - 1:15 PM



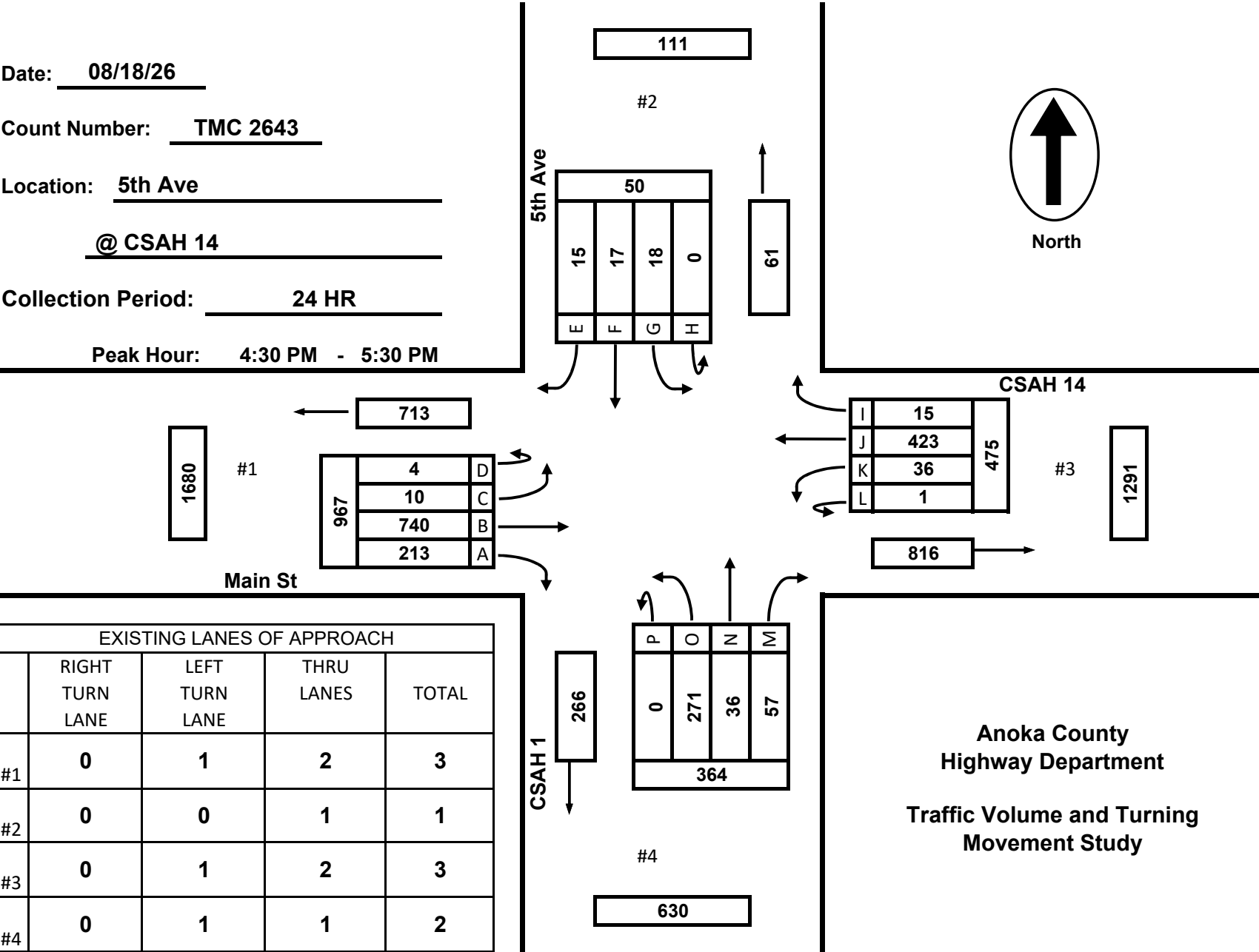
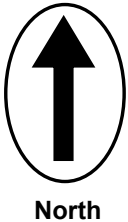
Date: 08/18/26

Count Number: TMC 2643

Location: 5th Ave
@ CSAH 14

Collection Period: 24 HR

Peak Hour: 4:30 PM - 5:30 PM



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

TMC 2643 - 5th Ave @ CSAH 14
Anoka MN
Tuesday, August 18, 2026

Time	Southbound 5th Ave						Westbound CSAH 14						Northbound CSAH 1						Eastbound Main St						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	8	0	0	8	0	9	1	3	0	13	0	0	10	3	0	13	34
12:15 AM	0	0	0	0	0	0	0	0	15	0	0	15	0	8	0	0	1	8	0	0	12	1	0	13	36
12:30 AM	0	0	0	0	0	0	0	0	10	0	0	10	0	3	0	0	0	3	0	0	11	2	1	13	26
12:45 AM	0	0	0	0	0	0	0	0	19	0	0	19	0	3	1	0	1	4	0	0	9	1	0	10	33
Hourly Total	0	0	0	0	0	0	0	0	52	0	0	52	0	23	2	3	2	28	0	0	42	7	1	49	129
1:00 AM	0	0	0	0	0	0	0	0	5	0	0	5	0	2	0	0	0	2	0	0	5	6	0	11	18
1:15 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	1	0	1	0	0	8	6	0	14	18
1:30 AM	0	0	0	0	0	0	0	0	10	0	0	10	0	2	0	0	0	2	1	0	7	2	0	10	22
1:45 AM	0	0	0	0	0	0	0	0	6	0	0	6	0	2	0	0	1	2	0	0	4	2	0	6	14
Hourly Total	0	0	0	0	0	0	0	0	24	0	0	24	0	6	0	1	1	7	1	0	24	16	0	41	72
2:00 AM	0	0	0	0	0	0	0	1	2	0	0	3	0	2	0	0	0	2	0	0	7	1	0	8	13
2:15 AM	0	0	0	0	0	0	0	0	5	1	0	6	0	2	0	0	0	2	0	0	11	3	0	14	22
2:30 AM	0	0	0	0	0	0	0	0	6	0	0	6	0	5	0	0	0	5	0	0	6	4	0	10	21
2:45 AM	0	0	0	0	0	0	0	1	8	0	0	9	0	2	0	0	0	2	0	0	7	2	0	9	20
Hourly Total	0	0	0	0	0	0	0	2	21	1	0	24	0	11	0	0	0	11	0	0	31	10	0	41	76
3:00 AM	0	0	2	0	0	2	0	0	9	0	0	9	0	2	0	1	0	3	0	0	1	5	0	6	20
3:15 AM	0	0	0	0	0	0	0	0	6	0	0	6	0	1	0	1	0	2	0	0	5	5	0	10	18
3:30 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	2	0	2	0	4	0	0	7	1	0	8	14
3:45 AM	0	1	0	0	0	1	0	1	10	0	0	11	0	6	1	0	0	7	0	0	6	0	0	6	25
Hourly Total	0	1	2	0	0	3	0	1	27	0	0	28	0	11	1	4	0	16	0	0	19	11	0	30	77
4:00 AM	0	0	0	0	0	0	0	1	9	0	0	10	0	3	0	1	0	4	0	0	9	2	0	11	25
4:15 AM	0	0	2	0	0	2	0	0	10	0	0	10	0	10	0	1	0	11	0	0	9	4	0	13	36
4:30 AM	0	0	0	2	0	2	0	0	22	0	0	22	0	7	1	0	0	8	0	0	14	6	0	20	52
4:45 AM	0	0	0	1	0	1	0	0	18	0	0	18	0	5	0	1	1	6	0	0	24	9	0	33	58
Hourly Total	0	0	2	3	0	5	0	1	59	0	0	60	0	25	1	3	1	29	0	0	56	21	0	77	171
5:00 AM	0	0	0	1	1	1	0	1	26	0	0	27	0	12	0	1	0	13	0	0	13	9	0	22	63
5:15 AM	0	0	1	0	0	1	0	1	32	0	0	33	0	18	0	1	0	19	0	1	31	6	0	38	91
5:30 AM	0	1	0	2	1	3	0	0	45	0	0	45	0	27	0	1	2	28	0	0	23	16	0	39	115
5:45 AM	0	1	1	1	1	3	0	0	46	0	0	46	0	20	1	2	0	23	0	0	26	23	0	49	121
Hourly Total	0	2	2	4	3	8	0	2	149	0	0	151	0	77	1	5	2	83	0	1	93	54	0	148	390
6:00 AM	0	0	1	2	0	3	0	1	60	1	0	62	0	25	1	4	0	30	0	1	43	21	0	65	160
6:15 AM	0	0	0	0	0	0	0	3	50	0	0	53	0	27	0	3	0	30	0	1	55	37	0	93	176
6:30 AM	0	0	2	0	0	2	0	3	82	0	0	85	0	35	0	4	2	39	1	0	72	60	0	133	259
6:45 AM	0	0	2	2	0	4	0	9	94	2	0	105	0	22	5	6	0	33	0	1	72	83	0	156	298
Hourly Total	0	0	5	4	0	9	0	16	286	3	0	305	0	109	6	17	2	132	1	3	242	201	0	447	893
7:00 AM	0	1	3	1	0	5	0	11	87	1	0	99	0	29	4	5	0	38	0	1	74	58	0	133	275
7:15 AM	0	0	0	0	0	0	0	8	132	5	0	145	0	38	7	4	0	49	0	1	72	63	0	136	330
7:30 AM	0	6	2	8	0	16	0	15	110	3	0	128	0	52	7	7	0	66	0	5	62	66	0	133	343
7:45 AM	0	1	0	4	1	5	0	14	131	9	0	154	0	67	9	9	1	85	0	6	101	63	0	170	414
Hourly Total	0	8	5	13	1	26	0	48	460	18	0	526	0	186	27	25	1	238	0	13	309	250	0	572	1362

TMC 2643 - 5th Ave @ CSAH 14
Anoka MN
Tuesday, August 18, 2026

Time	Southbound 5th Ave						Westbound CSAH 14						Northbound CSAH 1						Eastbound Main St						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	1	7	1	1	9	0	12	98	4	0	114	0	48	2	4	0	54	0	3	67	54	0	124	301
8:15 AM	0	3	1	1	0	5	0	12	109	1	0	122	0	50	2	4	1	56	0	1	78	44	0	123	306
8:30 AM	0	7	3	8	1	18	0	11	102	1	0	114	0	37	2	6	1	45	1	0	77	42	0	120	297
8:45 AM	0	5	3	2	0	10	0	24	96	5	1	125	0	38	3	15	1	56	0	1	100	48	0	149	340
Hourly Total	0	16	14	12	2	42	0	59	405	11	1	475	0	173	9	29	3	211	1	5	322	188	0	516	1244
9:00 AM	0	5	1	4	2	10	0	9	91	3	0	103	0	39	3	7	1	49	0	1	81	52	0	134	296
9:15 AM	0	3	3	4	2	10	0	8	77	3	0	88	0	44	1	5	0	50	1	0	103	45	1	149	297
9:30 AM	0	1	2	2	0	5	0	8	107	0	0	115	0	41	0	7	0	48	1	2	79	33	0	115	283
9:45 AM	0	2	5	3	0	10	0	9	91	1	0	101	0	63	2	6	0	71	0	3	96	62	0	161	343
Hourly Total	0	11	11	13	4	35	0	34	366	7	0	407	0	187	6	25	1	218	2	6	359	192	1	559	1219
10:00 AM	0	1	6	3	1	10	1	6	117	2	1	126	0	49	3	11	1	63	1	0	109	46	0	156	355
10:15 AM	0	6	4	6	3	16	0	7	76	1	0	84	0	42	0	10	0	52	1	3	94	33	1	131	283
10:30 AM	0	4	2	2	3	8	0	7	126	0	0	133	0	51	2	7	0	60	0	0	109	42	1	151	352
10:45 AM	0	3	1	2	1	6	1	8	118	3	1	130	0	58	3	13	0	74	1	3	140	41	0	185	395
Hourly Total	0	14	13	13	8	40	2	28	437	6	2	473	0	200	8	41	1	249	3	6	452	162	2	623	1385
11:00 AM	0	2	5	5	0	12	0	4	131	4	0	139	0	44	2	12	1	58	0	2	139	38	0	179	388
11:15 AM	0	3	3	2	0	8	0	9	112	0	1	121	0	65	2	17	0	84	0	1	140	49	0	190	403
11:30 AM	0	2	4	5	2	11	0	10	137	1	2	148	0	50	3	14	0	67	0	1	141	35	0	177	403
11:45 AM	0	4	1	1	2	6	0	12	129	2	2	143	0	53	3	7	0	63	0	2	164	39	0	205	417
Hourly Total	0	11	13	13	4	37	0	35	509	7	5	551	0	212	10	50	1	272	0	6	584	161	0	751	1611
12:00 PM	0	3	2	2	1	7	0	5	112	2	0	119	0	45	3	9	0	57	0	2	159	42	1	203	386
12:15 PM	0	5	2	6	0	13	0	5	132	4	0	141	0	52	5	14	1	71	1	2	160	41	1	204	429
12:30 PM	0	2	0	1	2	3	0	14	129	3	0	146	0	50	5	6	0	61	3	6	148	41	0	198	408
12:45 PM	0	1	2	2	2	5	0	15	157	5	1	177	0	55	4	14	1	73	1	5	151	50	0	207	462
Hourly Total	0	11	6	11	5	28	0	39	530	14	1	583	0	202	17	43	2	262	5	15	618	174	2	812	1685
1:00 PM	0	1	3	3	2	7	0	10	129	4	0	143	0	56	6	16	4	78	0	1	148	44	0	193	421
1:15 PM	0	2	2	6	1	10	0	9	134	3	0	146	0	47	3	11	0	61	0	3	154	53	0	210	427
1:30 PM	0	5	1	6	2	12	0	16	102	3	0	121	0	36	3	5	2	44	0	0	144	54	0	198	375
1:45 PM	0	3	0	6	1	9	0	15	131	4	1	150	0	50	8	15	1	73	0	3	163	44	0	210	442
Hourly Total	0	11	6	21	6	38	0	50	496	14	1	560	0	189	20	47	7	256	0	7	609	195	0	811	1665
2:00 PM	0	6	2	4	3	12	0	4	120	4	1	128	0	60	3	11	3	74	2	3	141	55	0	201	415
2:15 PM	0	2	3	2	0	7	0	4	124	1	0	129	0	62	4	9	3	75	1	2	180	56	0	239	450
2:30 PM	0	7	1	5	0	13	0	12	128	3	0	143	0	56	2	13	0	71	2	2	172	55	0	231	458
2:45 PM	0	4	2	0	0	6	0	10	113	2	0	125	0	61	4	11	0	76	2	3	188	54	0	247	454
Hourly Total	0	19	8	11	3	38	0	30	485	10	1	525	0	239	13	44	6	296	7	10	681	220	0	918	1777
3:00 PM	0	6	3	7	0	16	0	12	130	6	0	148	0	70	1	16	1	87	0	6	160	48	0	214	465
3:15 PM	0	3	6	1	1	10	1	7	114	2	2	124	0	68	14	4	3	86	0	1	147	30	1	178	398
3:30 PM	0	4	4	8	3	16	0	7	151	3	0	161	0	87	10	7	2	104	1	5	189	37	2	232	513
3:45 PM	0	4	3	1	0	8	0	19	132	4	0	155	0	69	10	12	1	91	1	3	135	42	0	181	435
Hourly Total	0	17	16	17	4	50	1	45	527	15	2	588	0	294	35	39	7	368	2	15	631	157	3	805	1811

TMC 2643 - 5th Ave @ CSAH 14
Anoka MN
Tuesday, August 18, 2026

Time	Southbound 5th Ave						Westbound CSAH 14						Northbound CSAH 1						Eastbound Main St						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	4	4	1	2	9	0	13	80	5	0	98	0	67	12	17	2	96	1	3	198	54	0	256	459
4:15 PM	0	3	3	3	0	9	0	11	83	1	0	95	0	63	14	6	1	83	0	2	148	48	2	198	385
4:30 PM	0	11	4	5	1	20	0	9	99	5	0	113	0	79	7	20	2	106	1	1	214	48	1	264	503
4:45 PM	0	3	4	3	0	10	0	9	102	2	0	113	0	58	12	17	1	87	2	2	164	53	1	221	431
Hourly Total	0	21	15	12	3	48	0	42	364	13	0	419	0	267	45	60	6	372	4	8	724	203	4	939	1778
5:00 PM	0	2	7	3	0	12	0	11	99	5	1	115	0	78	11	10	0	99	1	1	170	55	3	227	453
5:15 PM	0	2	2	4	0	8	1	7	123	3	0	134	0	56	6	10	1	72	0	6	192	57	0	255	469
5:30 PM	0	3	3	1	2	7	1	7	107	1	0	116	0	50	2	11	2	63	0	5	184	54	0	243	429
5:45 PM	0	1	2	4	0	7	0	12	121	2	0	135	0	44	2	8	0	54	1	5	122	37	0	165	361
Hourly Total	0	8	14	12	2	34	2	37	450	11	1	500	0	228	21	39	3	288	2	17	668	203	3	890	1712
6:00 PM	0	1	1	4	0	6	0	6	82	2	1	90	0	37	6	8	3	51	0	2	133	47	0	182	329
6:15 PM	0	0	2	1	1	3	0	7	97	2	0	106	0	34	3	6	2	43	1	0	103	30	0	134	286
6:30 PM	0	1	1	1	0	3	0	4	100	0	0	104	0	42	3	15	0	60	0	3	112	38	0	153	320
6:45 PM	0	2	2	1	1	5	0	3	90	0	0	93	0	31	4	6	2	41	0	2	119	54	0	175	314
Hourly Total	0	4	6	7	2	17	0	20	369	4	1	393	0	144	16	35	7	195	1	7	467	169	0	644	1249
7:00 PM	0	3	0	1	1	4	0	8	111	0	0	119	0	42	0	4	2	46	0	1	88	32	0	121	290
7:15 PM	0	1	1	1	0	3	0	7	73	0	0	80	0	35	5	10	1	50	0	0	111	30	0	141	274
7:30 PM	0	1	0	1	1	2	0	11	86	3	1	100	0	62	2	10	0	74	0	1	102	34	0	137	313
7:45 PM	0	2	1	3	0	6	0	0	68	4	0	72	0	27	1	8	2	36	0	0	94	17	1	111	225
Hourly Total	0	7	2	6	2	15	0	26	338	7	1	371	0	166	8	32	5	206	0	2	395	113	1	510	1102
8:00 PM	0	0	3	0	1	3	0	4	87	0	0	91	0	33	4	7	1	44	0	0	110	21	1	131	269
8:15 PM	0	0	1	0	3	1	0	4	80	0	0	84	0	40	3	3	0	46	0	1	88	25	0	114	245
8:30 PM	0	4	0	2	1	6	0	2	64	3	3	69	0	23	4	8	4	35	0	1	85	45	0	131	241
8:45 PM	0	0	0	1	1	1	0	2	43	1	0	46	0	21	2	0	2	23	0	3	78	26	0	107	177
Hourly Total	0	4	4	3	6	11	0	12	274	4	3	290	0	117	13	18	7	148	0	5	361	117	1	483	932
9:00 PM	0	1	1	1	1	3	0	3	57	3	0	63	0	10	4	4	1	18	0	1	77	11	1	89	173
9:15 PM	0	0	1	0	0	1	0	1	33	0	0	34	0	9	0	0	0	9	0	0	57	17	0	74	118
9:30 PM	0	0	0	0	3	0	0	0	39	1	0	40	0	22	4	0	0	26	0	2	45	16	0	63	129
9:45 PM	0	0	0	0	1	0	0	1	33	0	0	34	0	14	4	1	1	19	0	2	43	16	0	61	114
Hourly Total	0	1	2	1	5	4	0	5	162	4	0	171	0	55	12	5	2	72	0	5	222	60	1	287	534
10:00 PM	0	0	0	1	1	1	0	1	20	1	0	22	0	13	0	1	4	14	1	0	51	9	0	61	98
10:15 PM	0	1	2	0	1	3	0	1	20	2	0	23	0	10	1	5	1	16	1	0	50	17	0	68	110
10:30 PM	0	3	0	1	0	4	0	0	16	0	0	16	0	16	1	0	0	17	0	0	29	14	0	43	80
10:45 PM	0	0	1	0	2	1	0	1	19	1	0	21	0	6	1	1	0	8	0	0	34	19	0	53	83
Hourly Total	0	4	3	2	4	9	0	3	75	4	0	82	0	45	3	7	5	55	2	0	164	59	0	225	371
11:00 PM	0	0	0	0	1	0	0	0	20	1	0	21	0	6	0	1	1	7	0	0	18	6	0	24	52
11:15 PM	0	0	0	0	2	0	0	0	13	0	0	13	0	9	1	3	0	13	0	0	15	9	0	24	50
11:30 PM	0	0	0	0	0	0	0	1	34	0	0	35	0	20	0	2	0	22	0	0	14	4	0	18	75
11:45 PM	0	0	0	0	1	0	0	0	12	1	0	13	0	7	0	0	0	7	0	0	16	7	0	23	43
Hourly Total	0	0	0	0	4	0	0	1	79	2	0	82	0	42	1	6	1	49	0	0	63	26	0	89	220
DAILY TOTAL	0	170	149	178	68	497	5	536	6944	155	19	7640	0	3208	275	578	73	4061	31	131	8136	2969	19	11267	23465
Cars	0	167	147	175	43	489	5	528	6856	150	13	7539	0	3154	275	570	35	3999	31	129	8011	2911	12	11082	23109
Heavy Vehicles	0	3	2	3	25	8	0	8	88	5	6	101	0	54	0	8	38	62	0	2	125	58	7	185	356
Heavy Vehicle %	0.00%	1.76%	1.34%	1.69%	36.76%	1.61%	0.00%	1.49%	1.27%	3.23%	31.58%	1.32%	0.00%	1.68%	0.00%	1.38%	52.05%	1.53%	0.00%	1.53%	1.54%	1.95%	36.84%	1.64%	1.52%

TMC 2643 - 5th Ave @ CSAH 14
Anoka MN
Tuesday, August 18, 2026
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	0	0	0	0	0	0	8	132	5	0	145	0	38	7	4	0	49	0	1	72	63	0	136	330
7:30 AM	0	6	2	8	0	16	0	15	110	3	0	128	0	52	7	7	0	66	0	5	62	66	0	133	343
7:45 AM	0	1	0	4	1	5	0	14	131	9	0	154	0	67	9	9	1	85	0	6	101	63	0	170	414
8:00 AM	0	1	7	1	1	9	0	12	98	4	0	114	0	48	2	4	0	54	0	3	67	54	0	124	301
Peak Hour Total	0	8	9	13	2	30	0	49	471	21	0	541	0	205	25	24	1	254	0	15	302	246	0	563	1388
Peak Hour Heavy Vehicles	0	0	0	0	1	0	0	0	3	0	0	3	0	2	0	0	1	2	0	0	9	4	0	13	18
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	0.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.64%	0.00%	0.00%	0.55%	0.00%	0.98%	0.00%	0.00%	100.00%	0.79%	0.00%	0.00%	2.98%	1.63%	0.00%	2.31%	1.30%
	0.000	0.333	0.321	0.406	0.500	0.469	0.000	0.817	0.892	0.583	0.000	0.878	0.000	0.765	0.694	0.667	0.250	0.747	0.000	0.625	0.748	0.932	0.000	0.828	0.838

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	
12:15 PM	0	5	2	6	0	13	0	5	132	4	0	141	0	52	5	14	1	71	1	2	160	41	1	204	429
12:30 PM	0	2	0	1	2	3	0	14	129	3	0	146	0	50	5	6	0	61	3	6	148	41	0	198	408
12:45 PM	0	1	2	2	2	5	0	15	157	5	1	177	0	55	4	14	1	73	1	5	151	50	0	207	462
1:00 PM	0	1	3	3	2	7	0	10	129	4	0	143	0	56	6	16	4	78	0	1	148	44	0	193	421
Peak Hour Total	0	9	7	12	6	28	0	44	547	16	1	607	0	213	20	50	6	283	5	14	607	176	1	802	1720
Peak Hour Heavy Vehicles	0	0	0	0	2	0	0	0	2	1	1	3	0	6	0	1	2	7	0	0	11	8	0	19	29
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%	0.00%	0.00%	0.37%	6.25%	100.00%	0.49%	0.00%	2.82%	0.00%	2.00%	33.33%	2.47%	0.00%	0.00%	1.81%	4.55%	0.00%	2.37%	1.69%
	0.000	0.450	0.583	0.500	0.750	0.538	0.000	0.733	0.871	0.800	0.250	0.857	0.000	0.951	0.833	0.781	0.375	0.907	0.417	0.583	0.948	0.880	0.250	0.969	0.931

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	
4:30 PM	0	11	4	5	1	20	0	9	99	5	0	113	0	79	7	20	2	106	1	1	214	48	1	264	503
4:45 PM	0	3	4	3	0	10	0	9	102	2	0	113	0	58	12	17	1	87	2	2	164	53	1	221	431
5:00 PM	0	2	7	3	0	12	0	11	99	5	1	115	0	78	11	10	0	99	1	1	170	55	3	227	453
5:15 PM	0	2	2	4	0	8	1	7	123	3	0	134	0	56	6	10	1	72	0	6	192	57	0	255	469
Peak Hour Total	0	18	17	15	1	50	1	36	423	15	1	475	0	271	36	57	4	364	4	10	740	213	5	967	1856
Peak Hour Heavy Vehicles	0	0	0	0	1	0	0	0	3	0	0	3	0	2	0	0	1	2	0	0	4	2	3	6	11
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.71%	0.00%	0.00%	0.63%	0.00%	0.74%	0.00%	0.00%	25.00%	0.55%	0.00%	0.00%	0.54%	0.94%	60.00%	0.62%	0.59%
	0.000	0.409	0.607	0.750	0.250	0.625	0.250	0.818	0.860	0.750	0.250	0.886	0.000	0.858	0.750	0.713	0.500	0.858	0.500	0.417	0.864	0.934	0.417	0.916	0.922

Total Vehicles On Leg			1058		
Vehicles Entering Intersection			Vehicles Exiting Intersection		
Southbound			Northbound		
Cars	175	147	167	0	43
Heavy	3	2	3	0	25
Total	178	149	170	0	68



Total Vehicles on Leg 21628	Entering Intersection n 11267	Eastbound	Cars	Heavy	Total
			12	7	19
			31	0	31
	Exiting Intersection n 10361		129	2	131
			8011	125	8136
			2911	58	2969

Daily Volumes

Cars	35	0	3154	275	570
Heavy	38	0	54	0	8
Total	73	0	3208	275	578
Northbound					
Vehicles Entering Intersection			Vehicles Exiting Intersection		
Total Vehicles On Leg			3654		
			7715		

Cars	Heavy	Total	Westbound	Entering Intersection	Total Vehicles on Leg
150	5	155		7640	
6856	88	6944	Westbound	Exiting Intersection	16529
528	8	536			
5	0	5			
13	6	19		8889	

TMC 2643 - 5th Ave @ CSAH 14 Anoka MN Tuesday, August 18, 2026																										
Time	Southbound Heavy 5th Ave						Westbound Heavy CSAH 14						Northbound Heavy CSAH 1						Eastbound Heavy Main St						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	1	0	0	0	0	1	0	0	0	0	0	0	1
12:15 AM	0	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
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	0
12:45 AM	0	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	1	0	0	2	1	0	0	1	0	0	0	1	2
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	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	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	0
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	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	0	0	0	0	1	0	0	0	0	0	0	1
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	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	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	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	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	0
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	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	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	0
3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	2
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2	0	0	2	3
4:00 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	1
4:15 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	2
4:30 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	1	0	1	3	3
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	3	3
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	4	2	0	6	9	9
5:00 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	1	0	3	5	5
5:15 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
5:30 AM	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	0
5:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	1	0	4	5	5
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	1	0	0	0	5	2	0	7	11	11
6:00 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	1	0	3	5	5
6:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	2	3	3
6:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	2	1	0	3	5	5
6:45 AM	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	3	5	5
Hourly 'Heavy Vehicles'	0	0	0	1	0	1	0	0	5	0	0	5	0	1	0	0	0	1	1	0	1	6	4	0	11	18
7:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	4	4
7:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	4	1	0	5	6	6
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	2	3	3
7:45 AM	0	0	0	0	1	0	0	0	2	0	0	2	0	0	0	0	1	0	0	0	3	2	0	5	7	7
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	4	0	0	4	0	1	0	0	1	1	0	0	11	4	0	15	20	20

TMC 2643 - 5th Ave @ CSAH 14 Anoka MN Tuesday, August 18, 2026																										
Time	Southbound Heavy 5th Ave						Westbound Heavy CSAH 14						Northbound Heavy CSAH 1						Eastbound Heavy Main St						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	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	1	2
8:15 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	0	0	0	1	0	0	0	1	0	1	4
8:30 AM	0	0	1	0	1	1	0	1	5	0	0	6	0	1	0	0	0	1	1	0	1	1	0	0	2	10
8:45 AM	0	2	0	0	0	2	0	0	1	0	0	1	0	1	0	2	0	0	3	0	0	1	0	0	1	7
Hourly 'Heavy Vehicles'	0	2	1	0	1	3	0	1	8	0	0	9	0	4	0	2	0	6	0	0	3	2	0	5	23	
9:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	2	0	0	2	4	
9:15 AM	0	0	0	0	0	0	0	0	3	1	0	4	0	1	0	0	0	1	0	0	6	1	0	7	12	
9:30 AM	0	0	0	1	0	1	0	0	2	0	0	2	0	1	0	1	0	2	0	0	1	0	0	1	6	
9:45 AM	0	0	0	0	0	0	0	0	4	0	0	4	0	1	0	0	0	1	0	0	2	0	0	2	7	
Hourly 'Heavy Vehicles'	0	0	0	1	0	1	0	0	10	1	0	11	0	4	0	1	1	5	0	0	11	1	0	12	29	
10:00 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	0	0	1	0	0	3	1	0	4	8	
10:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	5	1	0	6	8	
10:30 AM	0	0	0	0	1	0	0	1	1	0	0	2	0	1	0	1	0	2	0	0	1	2	0	3	7	
10:45 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	5	2	0	7	10	
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	1	8	0	0	9	0	2	0	2	0	4	0	0	14	6	0	20	33	
11:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	1	2	0	0	3	3	0	6	9	
11:15 AM	0	0	0	0	0	0	0	1	2	0	0	3	0	3	0	0	0	3	0	0	3	2	0	5	11	
11:30 AM	0	0	1	0	1	1	0	0	3	1	0	4	0	2	0	0	0	2	0	0	5	0	0	5	12	
11:45 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	1	0	4	6	
Hourly 'Heavy Vehicles'	0	0	1	0	1	1	0	1	8	1	0	10	0	6	0	1	1	7	0	0	14	6	0	20	38	
12:00 PM	0	0	0	0	0	0	0	0	5	0	0	5	0	1	0	1	0	2	0	0	2	1	1	3	10	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	3	0	0	5	4	0	9	12	
12:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	3	0	0	3	5	
12:45 PM	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	0	2	4	0	6	7	
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	6	0	1	6	0	5	0	2	1	7	0	0	12	9	1	21	34	
1:00 PM	0	0	0	0	1	0	0	0	1	1	0	2	0	2	0	0	1	2	0	0	1	0	0	1	5	
1:15 PM	0	0	0	0	1	0	0	1	2	0	0	3	0	0	0	0	0	0	0	0	3	1	0	4	7	
1:30 PM	0	0	0	0	2	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	1	0	1	4	
1:45 PM	0	0	0	0	1	0	0	1	3	0	1	4	0	3	0	0	0	3	0	0	6	1	0	7	14	
Hourly 'Heavy Vehicles'	0	0	0	0	5	0	0	2	6	1	1	9	0	8	0	0	1	8	0	0	10	3	0	13	30	
2:00 PM	0	0	0	0	2	0	0	0	2	0	1	2	0	1	0	0	1	1	0	0	2	0	0	2	5	
2:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	2	1	0	0	0	2	0	2	4	
2:30 PM	0	1	0	0	0	1	0	0	1	1	0	2	0	1	0	0	0	1	0	0	1	1	0	2	6	
2:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	2	0	0	3	1	0	4	7	
Hourly 'Heavy Vehicles'	0	1	0	0	2	1	0	0	4	2	1	6	0	5	0	0	3	5	0	0	6	4	0	10	22	
3:00 PM	0	0	0	0	0	0	0	2	0	0	0	2	0	1	0	0	0	1	0	0	1	1	0	2	5	
3:15 PM	0	0	0	0	0	0	0	1	3	0	1	4	0	2	0	0	1	2	0	0	0	1	0	1	7	
3:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	2	0	1	1	0	2	5	5	
3:45 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	1	0	0	0	0	2	0	2	4	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	3	6	0	1	9	0	5	0	0	2	5	0	1	2	4	2	7	21	

TMC 2643 - 5th Ave @ CSAH 14
Anoka MN
Tuesday, August 18, 2026

Time	Southbound Heavy 5th Ave						Westbound Heavy CSAH 14						Northbound Heavy CSAH 1						Eastbound Heavy Main St						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	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	0	1
4:15 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3
4:30 PM	0	0	0	0	1	0	0	0	2	0	0	2	0	1	0	0	1	1	0	0	2	0	0	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
Hourly 'Heavy Vehicles'	0	0	0	1	1	1	0	0	2	0	0	2	0	2	0	0	3	2	0	0	5	2	0	7	12
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	3	1	2
5:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	2
5:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	2
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	1	0	0	1	0	2	0	0	2	2	0	0	2	2	3	4	7
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	0	1	0	0	1	2
6:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2	0	0	0	1	1	0	2	3
6:30 PM	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
6:45 PM	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	1	0	0	1	0	2	0	0	4	2	0	0	4	1	0	5	8
7:00 PM	0	0	0	0	1	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
7:15 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
7:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	1	1	0	2	4
7:45 PM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	2	0	0	0	4	0	1	4	7
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	7	0	0	7	0	1	0	0	3	1	0	0	5	1	1	6	14
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	2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	2
8:30 PM	0	0	0	0	1	0	0	0	0	0	2	0	0	1	0	0	4	1	0	0	1	0	0	1	2
8:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	2	3
Hourly 'Heavy Vehicles'	0	0	0	0	4	0	0	0	2	0	2	2	0	1	0	0	4	1	0	0	2	2	0	4	7
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	1	0	3	3
9:15 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
9:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2	0	0	2	3
9:45 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	1	0	0	0	1	0	0	1	0	1	0	0	2	1	0	0	5	1	0	6	8
10:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	4	0	0	0	0	0	0	0	1
10:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
10:30 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
10:45 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
Hourly 'Heavy Vehicles'	0	0	0	0	3	0	0	0	2	0	0	2	0	0	0	0	5	0	0	0	0	0	0	0	2
11:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1
11:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
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	1	0	0	1	1
Hourly 'Heavy Vehicles'	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	0	2	3
DAILY 'Heavy Vehicles'	0	3	2	3	25	8	0	8	88	5	6	101	0	54	0	8	38	62	0	2	125	58	7	185	356

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2643

Study Date : 08/31/2026

Signal Warrants - Summary

Major Street Approaches

Eastbound: Main St

Number of Lanes : 2+

Total Approach Volume: 11,267

Westbound: CSAH 14

Number of Lanes :2+

Total Approach Volume: 7,640

Minor Street Approaches

Northbound: CSAH 1

Number of Lanes :2+

Total Approach Volume: 4,061

Southbound: 5th Ave

Number of Lanes :1

Total Approach Volume: 497

Warrant Summary (Urban Values Apply)

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

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

Required volumes reached for 15 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 16 hours, 8 are needed

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

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

Number of hours (14) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

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

Warrant 3B - Peak Hour Volumes.....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 2643

Study Date : 08/31/2026

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

15 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Veh/Hr Major = **360**

Veh/Hr Minor = **120 90**

Major Road						Minor Road			
Main St						CSAH 1			
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?	
13:45 - 14:45	881	+	550	=	1431	293	41	Yes	
14:45 - 15:45	871	+	558	=	1429	353	48	Yes	
16:45 - 17:45	946	+	478	=	1424	321	37	Yes	
12:45 - 13:45	808	+	587	=	1395	256	34	Yes	
15:45 - 16:45	899	+	461	=	1360	376	46	Yes	
11:45 - 12:45	810	+	549	=	1359	252	29	Yes	
10:45 - 11:45	731	+	538	=	1269	283	37	Yes	
17:45 - 18:45	634	+	435	=	1069	208	19	Yes	
09:45 - 10:45	599	+	444	=	1043	246	44	Yes	
07:45 - 08:45	537	+	504	=	1041	240	37	Yes	
06:45 - 07:45	558	+	477	=	1035	186	25	Yes	
08:45 - 09:45	547	+	431	=	978	203	35	Yes	
18:45 - 19:45	574	+	392	=	966	211	14	Yes	
19:45 - 20:45	487	+	316	=	803	161	16	Yes	
05:45 - 06:45	340	+	246	=	586	122	8	Yes	
20:45 - 21:45	333	+	183	=	516	76	5	No	
21:00 - 22:00	287	+	171	=	458	72	4	No	
05:30 - 06:30	246	+	206	=	452	111	9	No	
21:15 - 22:15	259	+	130	=	389	68	2	No	
05:15 - 06:15	191	+	186	=	377	100	10	No	
21:30 - 22:30	253	+	119	=	372	75	4	No	
21:45 - 22:45	233	+	95	=	328	66	8	No	
22:00 - 23:00	225	+	82	=	307	55	9	No	
05:00 - 06:00	148	+	151	=	299	83	8	No	
22:15 - 23:15	188		81		269	48	8	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2643

Study Date : 08/31/2026

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 = **False**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **Mixed**

Volume Requirements

Veh/Hr Major = **540**

Veh/Hr Minor = **60 45**

Major Road						Minor Road			
Main St						CSAH 1			
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?	
13:45 - 14:45	881	+	550	=	1431	293	41	Yes	
14:45 - 15:45	871	+	558	=	1429	353	48	Yes	
16:45 - 17:45	946	+	478	=	1424	321	37	Yes	
12:45 - 13:45	808	+	587	=	1395	256	34	Yes	
15:45 - 16:45	899	+	461	=	1360	376	46	Yes	
11:45 - 12:45	810	+	549	=	1359	252	29	Yes	
10:45 - 11:45	731	+	538	=	1269	283	37	Yes	
17:45 - 18:45	634	+	435	=	1069	208	19	Yes	
09:45 - 10:45	599	+	444	=	1043	246	44	Yes	
07:45 - 08:45	537	+	504	=	1041	240	37	Yes	
06:45 - 07:45	558	+	477	=	1035	186	25	Yes	
08:45 - 09:45	547	+	431	=	978	203	35	Yes	
18:45 - 19:45	574	+	392	=	966	211	14	Yes	
19:45 - 20:45	487	+	316	=	803	161	16	Yes	
05:45 - 06:45	340	+	246	=	586	122	8	Yes	
20:45 - 21:45	333	+	183	=	516	76	5	No	
21:00 - 22:00	287	+	171	=	458	72	4	No	
05:30 - 06:30	246	+	206	=	452	111	9	No	
21:15 - 22:15	259	+	130	=	389	68	2	No	
05:15 - 06:15	191	+	186	=	377	100	10	No	
21:30 - 22:30	253	+	119	=	372	75	4	No	
21:45 - 22:45	233	+	95	=	328	66	8	No	
22:00 - 23:00	225	+	82	=	307	55	9	No	
05:00 - 06:00	148	+	151	=	299	83	8	No	
22:15 - 23:15	188		81		269	48	8	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2643

Study Date : 08/31/2026

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

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

Site Data Required

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

Volume Requirements

Warrant 1A 1B
Veh/Hr Major = **288 432**
Veh/Hr Minor NB = **96 48**
Veh/Hr Minor SB = **72 36**

Major Road						Minor Road					
Main St						CSAH 1					
Time	Major EB	+	Major WB	=	Total		Minor NB		Minor SB		Met1A?
14:15 - 15:15	931	+	545	=	1476		309		42		Yes
12:15 - 13:15	802	+	607	=	1409		283		28		Yes
15:15 - 16:15	847	+	538	=	1385		377		43		Yes
13:15 - 14:15	819	+	545	=	1364		252		43		Yes
16:15 - 17:15	910	+	436	=	1346		375		51		Yes
17:15 - 18:15	845	+	475	=	1320		240		28		Yes
11:15 - 12:15	775	+	531	=	1306		271		32		Yes
10:15 - 11:15	646	+	486	=	1132		244		42		Yes
07:15 - 08:15	563	+	541	=	1104		254		30		Yes
09:15 - 10:15	581	+	430	=	1011		232		35		Yes
18:15 - 19:15	583	+	422	=	1005		190		15		Yes
08:15 - 09:15	526		464		990		206		43		Yes

Time	Major EB	+	Major WB	=	Total		Minor NB		Minor SB		Met1B?
16:30 - 17:30	967	+	475	=	1442		364		50		Yes
12:30 - 13:30	808	+	612	=	1420		273		25		Yes
14:30 - 15:30	870	+	540	=	1410		320		45		Yes
15:30 - 16:30	867	+	509	=	1376		374		42		Yes
13:30 - 14:30	848	+	528	=	1376		266		40		Yes
11:30 - 12:30	789	+	551	=	1340		258		37		Yes
10:30 - 11:30	705	+	523	=	1228		276		34		Yes
17:30 - 18:30	724	+	447	=	1171		211		23		Yes
07:30 - 08:30	550	+	518	=	1068		261		35		Yes
06:30 - 07:30	558	+	434	=	992		159		11		Yes
09:30 - 10:30	563	+	426	=	989		234		41		Yes
18:30 - 19:30	590		396		986		197		15		Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2643

Study Date : 08/31/2026

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.

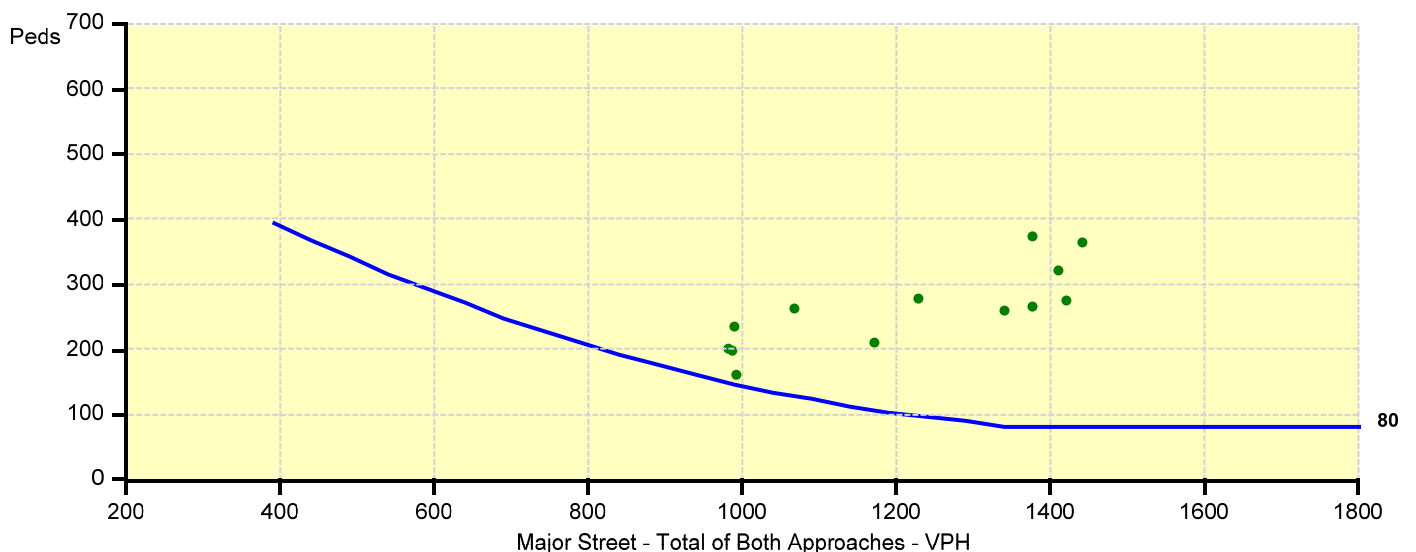
Summary

14 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Major Road						Minor Road		
Main St						CSAH 1		
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?
16:30 - 17:30	967	+	475	=	1442	364	50	Yes
12:30 - 13:30	808	+	612	=	1420	273	25	Yes
14:30 - 15:30	870	+	540	=	1410	320	45	Yes
15:30 - 16:30	867	+	509	=	1376	374	42	Yes
13:30 - 14:30	848	+	528	=	1376	266	40	Yes
11:30 - 12:30	789	+	551	=	1340	258	37	Yes
10:30 - 11:30	705	+	523	=	1228	276	34	Yes
17:30 - 18:30	724	+	447	=	1171	211	23	Yes
07:30 - 08:30	550	+	518	=	1068	261	35	Yes
06:30 - 07:30	558	+	434	=	992	159	11	Yes
09:30 - 10:30	563	+	426	=	989	234	41	Yes
18:30 - 19:30	590		396		986	197	15	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2643

Study Date : 08/31/2026

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

32 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Major Road						Minor Road		
Main St						CSAH 1		
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?
14:15 - 15:15	931	+	545	=	1476	309	42	Yes
14:00 - 15:00	918	+	525	=	1443	296	38	Yes
16:30 - 17:30	967	+	475	=	1442	364	50	Yes
13:45 - 14:45	881	+	550	=	1431	293	41	Yes
14:45 - 15:45	871	+	558	=	1429	353	48	Yes
16:45 - 17:45	946	+	478	=	1424	321	37	Yes
12:30 - 13:30	808	+	612	=	1420	273	25	Yes
14:30 - 15:30	870	+	540	=	1410	320	45	Yes
12:15 - 13:15	802	+	607	=	1409	283	28	Yes
12:00 - 13:00	812	+	583	=	1395	262	28	Yes
12:45 - 13:45	808	+	587	=	1395	256	34	Yes
15:00 - 16:00	805		588		1393	368	50	Yes

