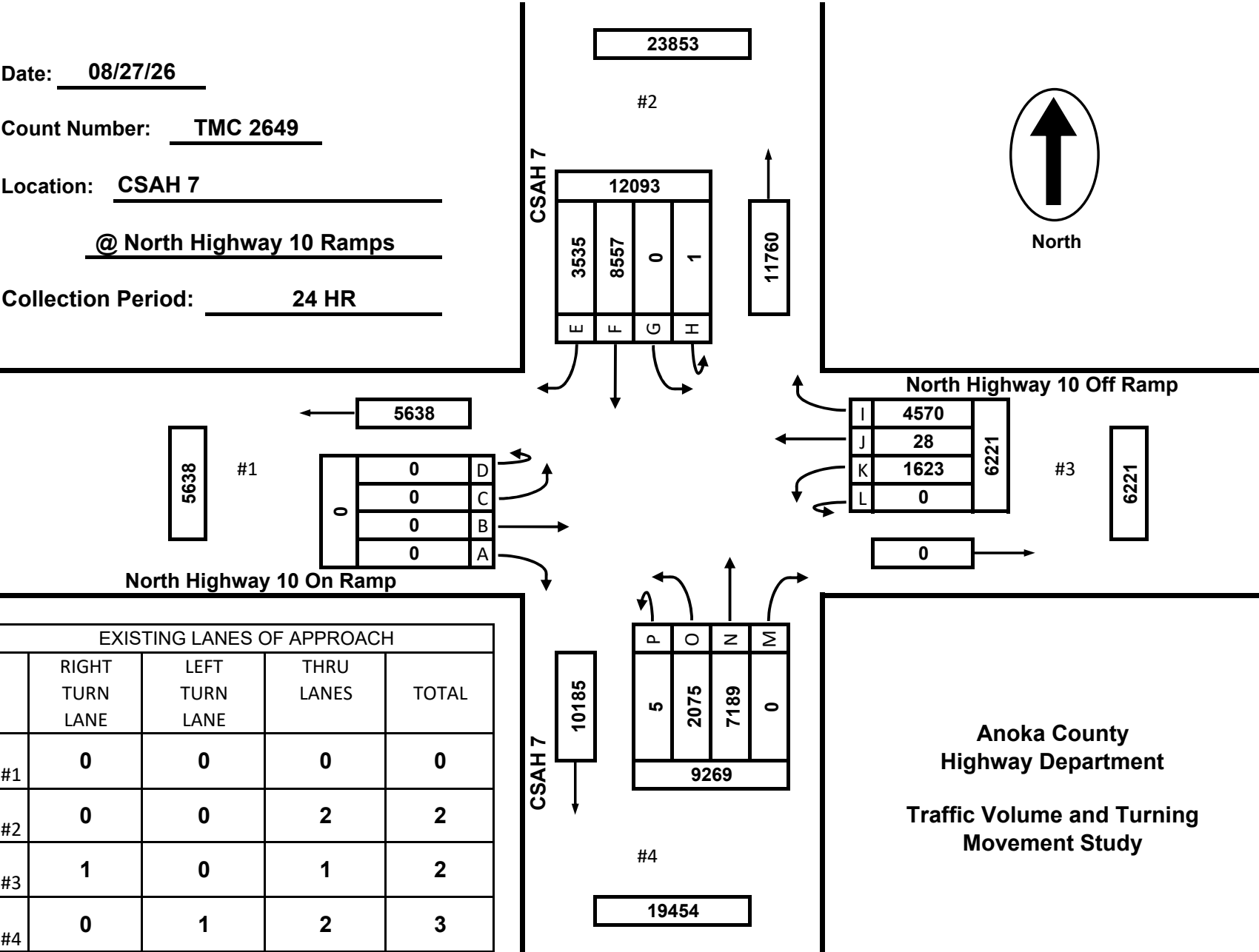


Date: 08/27/26

Count Number: TMC 2649

Location: CSAH 7
@ North Highway 10 Ramps

Collection Period: 24 HR



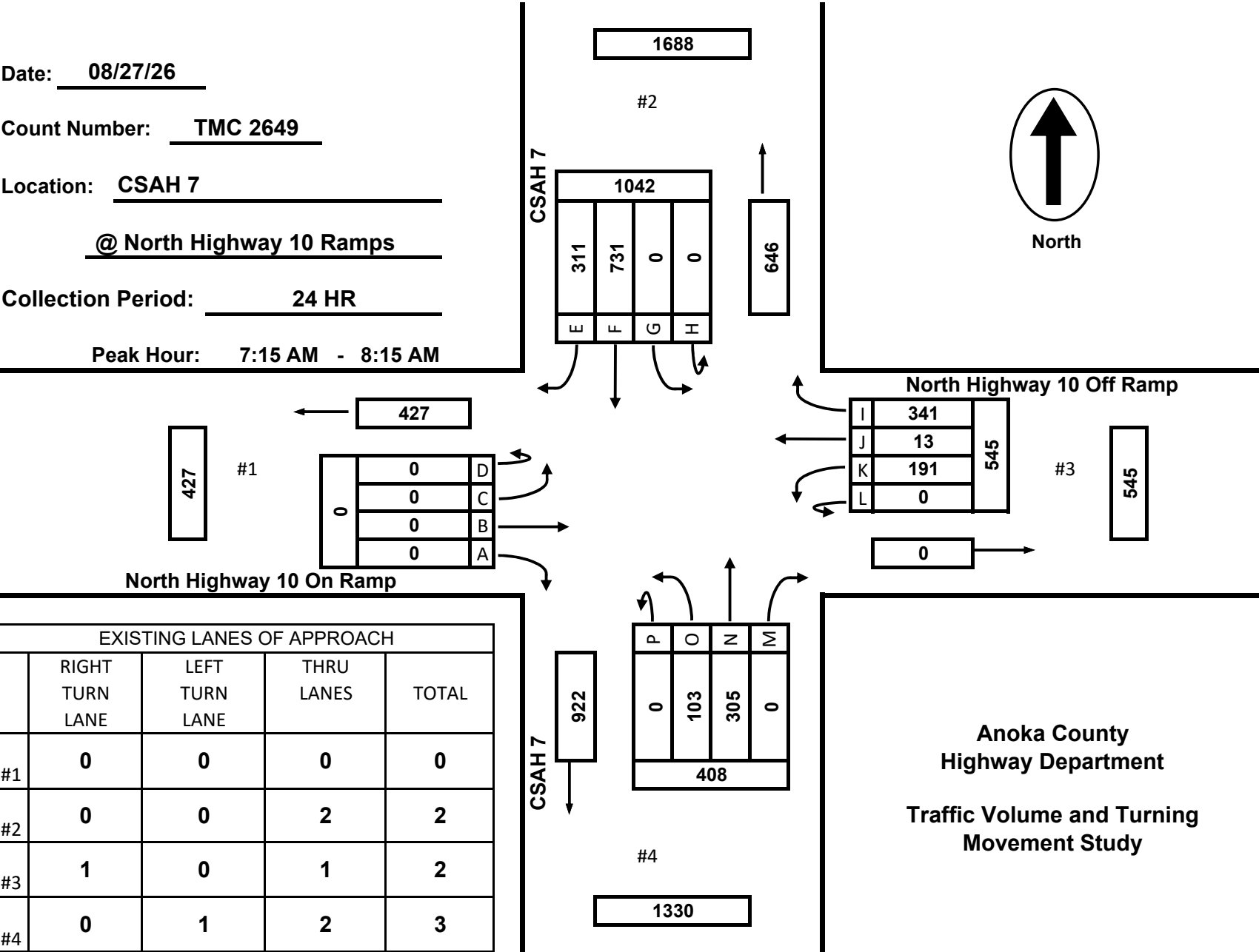
Date: 08/27/26

Count Number: TMC 2649

Location: CSAH 7
@ North Highway 10 Ramps

Collection Period: 24 HR

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



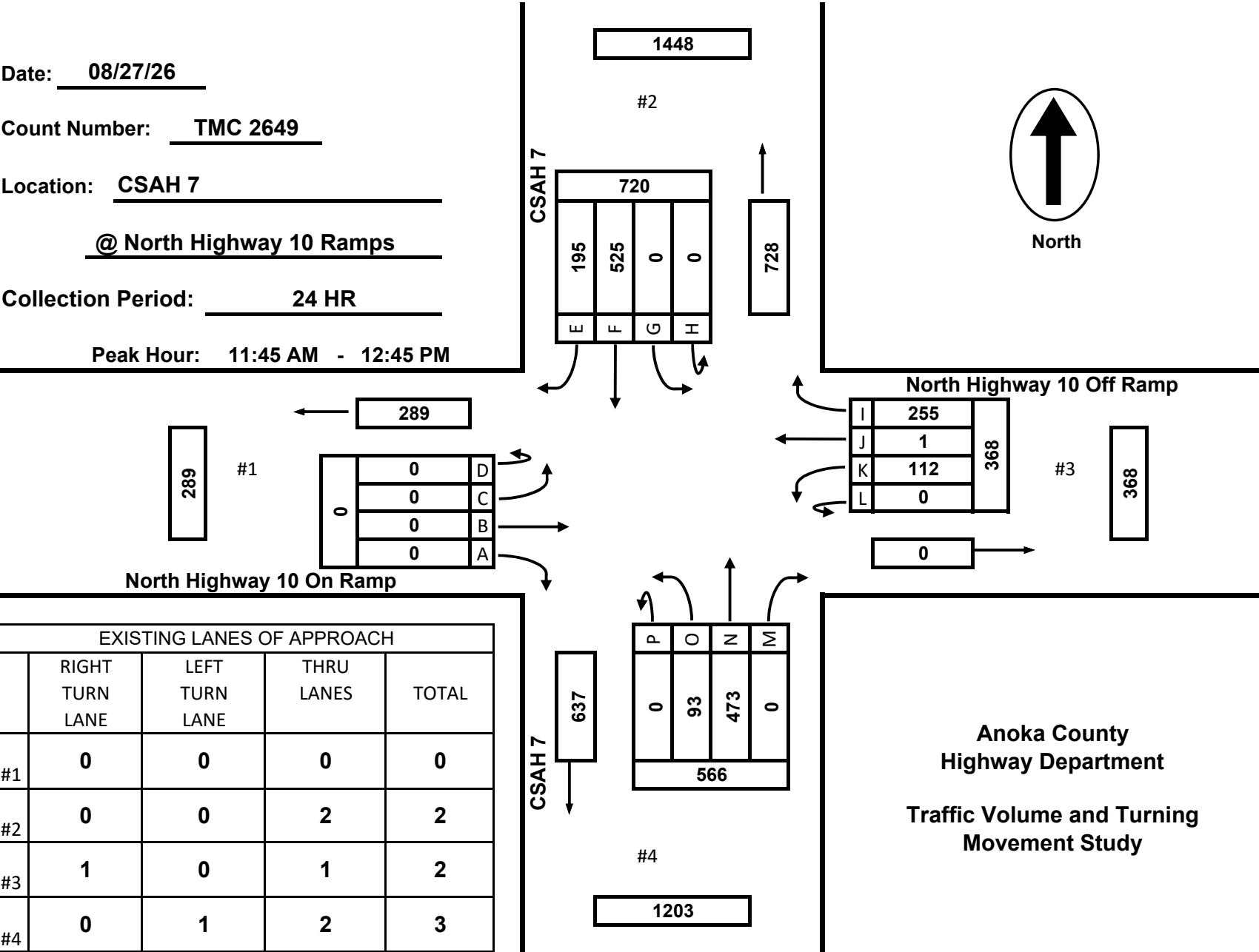
Date: 08/27/26

Count Number: TMC 2649

Location: CSAH 7
@ North Highway 10 Ramps

Collection Period: 24 HR

Peak Hour: 11:45 AM - 12:45 PM



Peak Hour: 3:00 PM - 4:00 PM

Date: 08/27/26

Count Number: TMC 2649

Location: CSAH 7
@ North Highway 10 Ramps

Collection Period: 24 HR

Peak Hour: 3:00 PM - 4:00 PM

North Highway 10 On Ramp

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

North Highway 10 Off Ramp

North Highway 10 Off Ramp		
I	389	472
J	2	
K	81	
L	0	

Anoka County Highway Department

Traffic Volume and Turning Movement Study

TMC 2649 - CSAH 7 @ North Highway 10 Ramps
Anoka MN
Thursday, August 27, 2026

Time	Southbound CSAH 7						Westbound North Highway 10 Off Ramp						Northbound CSAH 7						Eastbound North Highway 10 On Ramp						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	11	7	0	18	0	4	0	14	0	18	0	11	14	0	0	25	0	0	0	0	1	0	61
12:15 AM	0	0	7	3	0	10	0	3	0	12	0	15	0	2	11	0	0	13	0	0	0	0	4	0	38
12:30 AM	0	0	6	3	0	9	0	1	0	7	0	8	0	3	12	0	0	15	0	0	0	0	1	0	32
12:45 AM	0	0	8	2	0	10	0	1	0	6	0	7	0	5	10	0	0	15	0	0	0	0	0	0	32
Hourly Total	0	0	32	15	0	47	0	9	0	39	0	48	0	21	47	0	0	68	0	0	0	0	6	0	163
1:00 AM	0	0	10	6	0	16	0	2	0	6	0	8	0	6	14	0	0	20	0	0	0	0	0	0	44
1:15 AM	0	0	6	6	0	12	0	2	0	5	0	7	0	3	5	0	0	8	0	0	0	0	0	0	27
1:30 AM	0	0	5	1	0	6	0	2	0	3	0	5	0	3	7	0	0	10	0	0	0	0	0	0	21
1:45 AM	0	0	12	3	0	15	0	1	0	3	0	4	0	1	11	0	0	12	0	0	0	0	0	0	31
Hourly Total	0	0	33	16	0	49	0	7	0	17	0	24	0	13	37	0	0	50	0	0	0	0	0	0	123
2:00 AM	0	0	3	1	0	4	0	1	1	5	1	7	0	1	10	0	0	11	0	0	0	0	0	0	22
2:15 AM	0	0	12	1	0	13	0	0	0	2	0	2	0	1	10	0	0	11	0	0	0	0	0	0	26
2:30 AM	0	0	8	3	0	11	0	3	0	4	0	7	0	2	7	0	0	9	0	0	0	0	1	0	27
2:45 AM	0	0	14	2	0	16	0	3	0	3	0	6	0	2	8	0	0	10	0	0	0	0	1	0	32
Hourly Total	0	0	37	7	0	44	0	7	1	14	1	22	0	6	35	0	0	41	0	0	0	0	2	0	107
3:00 AM	0	0	10	5	0	15	0	0	0	6	0	6	0	3	12	0	0	15	0	0	0	0	1	0	36
3:15 AM	0	0	19	4	0	23	0	0	0	4	0	4	0	2	12	0	0	14	0	0	0	0	1	0	41
3:30 AM	0	0	17	2	0	19	0	2	0	4	0	6	0	1	13	0	0	14	0	0	0	0	0	0	39
3:45 AM	0	0	16	7	0	23	0	3	0	9	0	12	0	3	7	0	0	10	0	0	0	0	0	0	45
Hourly Total	0	0	62	18	0	80	0	5	0	23	0	28	0	9	44	0	0	53	0	0	0	0	2	0	161
4:00 AM	0	0	23	14	0	37	0	3	0	2	0	5	0	1	11	0	0	12	0	0	0	0	0	0	54
4:15 AM	0	0	41	24	0	65	0	9	0	9	0	18	0	1	12	0	0	13	0	0	0	0	0	0	96
4:30 AM	0	0	44	24	0	68	0	4	0	7	0	11	0	8	8	0	0	16	0	0	0	0	0	0	95
4:45 AM	0	0	53	19	0	72	0	8	0	8	0	16	0	6	13	0	0	19	0	0	0	0	0	0	107
Hourly Total	0	0	161	81	0	242	0	24	0	26	0	50	0	16	44	0	0	60	0	0	0	0	0	0	352
5:00 AM	0	0	78	32	0	110	0	9	0	11	0	20	0	2	17	0	0	19	0	0	0	0	0	0	149
5:15 AM	0	0	108	36	0	144	0	8	0	10	0	18	0	6	11	0	0	17	0	0	0	0	0	0	179
5:30 AM	0	0	110	58	0	168	0	9	0	17	2	26	0	9	33	0	0	42	0	0	0	0	0	0	236
5:45 AM	0	0	119	58	0	177	0	18	0	14	0	32	0	20	29	0	0	49	0	0	0	0	0	0	258
Hourly Total	0	0	415	184	0	599	0	44	0	52	2	96	0	37	90	0	0	127	0	0	0	0	0	0	822
6:00 AM	0	0	128	52	0	180	0	12	0	27	4	39	0	15	35	0	0	50	0	0	0	0	0	0	269
6:15 AM	0	0	187	78	0	265	0	18	0	33	0	51	0	20	30	0	0	50	0	0	0	0	0	0	366
6:30 AM	0	0	166	87	0	253	0	37	0	47	0	84	0	11	43	0	0	54	0	0	0	0	0	0	391
6:45 AM	0	0	219	68	0	287	0	31	0	49	0	80	0	19	85	0	0	104	0	0	0	0	0	0	471
Hourly Total	0	0	700	285	0	985	0	98	0	156	4	254	0	65	193	0	0	258	0	0	0	0	0	0	1497
7:00 AM	0	0	161	80	0	241	0	22	1	56	0	79	0	19	76	0	0	95	0	0	0	0	0	0	415
7:15 AM	0	0	203	98	0	301	0	30	0	51	0	81	0	31	71	0	0	102	0	0	0	0	1	0	484
7:30 AM	0	0	192	94	0	286	0	41	0	64	0	105	0	34	79	0	0	113	0	0	0	0	1	0	504
7:45 AM	0	0	200	66	0	266	0	70	6	107	1	183	0	27	92	0	0	119	0	0	0	0	0	0	568
Hourly Total	0	0	756	338	0	1094	0	163	7	278	1	448	0	111	318	0	0	429	0	0	0	0	2	0	1971

TMC 2649 - CSAH 7 @ North Highway 10 Ramps

Anoka MN

Thursday, August 27, 2026

Time	Southbound CSAH 7						Westbound North Highway 10 Off Ramp						Northbound CSAH 7						Eastbound North Highway 10 On Ramp						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	0	136	53	0	189	0	50	7	119	0	176	0	11	63	0	0	74	0	0	0	0	0	0	439
8:15 AM	0	0	166	52	0	218	0	40	1	53	0	94	0	22	86	0	0	108	0	0	0	0	0	0	420
8:30 AM	0	0	137	45	0	182	0	26	0	53	0	79	0	15	72	0	0	87	0	0	0	0	0	0	348
8:45 AM	0	0	139	46	0	185	0	27	0	64	0	91	0	21	67	0	0	88	0	0	0	0	0	0	364
Hourly Total	0	0	578	196	0	774	0	143	8	289	0	440	0	69	288	0	0	357	0	0	0	0	0	0	1571
9:00 AM	0	0	99	48	0	147	0	18	0	34	0	52	0	20	74	0	0	94	0	0	0	0	0	0	293
9:15 AM	0	0	129	46	0	175	0	16	0	33	0	49	0	22	74	0	0	96	0	0	0	0	0	0	320
9:30 AM	0	0	142	46	0	188	0	18	0	37	0	55	0	13	80	0	0	93	0	0	0	0	0	0	336
9:45 AM	0	0	120	46	0	166	0	23	0	55	0	78	0	14	78	0	0	92	0	0	0	0	0	0	336
Hourly Total	0	0	490	186	0	676	0	75	0	159	0	234	0	69	306	0	0	375	0	0	0	0	0	0	1285
10:00 AM	0	0	99	43	0	142	0	15	0	35	0	50	0	21	81	0	0	102	0	0	0	0	0	0	294
10:15 AM	0	0	136	46	0	182	0	18	0	39	0	57	0	20	64	0	0	84	0	0	0	0	1	0	323
10:30 AM	0	0	133	42	0	175	0	19	0	53	0	72	0	22	107	0	0	129	0	0	0	0	0	0	376
10:45 AM	0	0	102	38	0	140	0	28	0	42	0	70	0	17	92	0	0	109	0	0	0	0	0	0	319
Hourly Total	0	0	470	169	0	639	0	80	0	169	0	249	0	80	344	0	0	424	0	0	0	0	1	0	1312
11:00 AM	0	0	117	47	0	164	0	26	0	36	2	62	0	23	105	0	0	128	0	0	0	0	1	0	354
11:15 AM	0	0	119	40	0	159	0	21	1	50	1	72	0	20	86	0	0	106	0	0	0	0	1	0	337
11:30 AM	0	0	133	33	0	166	0	27	1	50	1	78	0	25	96	0	0	121	0	0	0	0	0	0	365
11:45 AM	0	0	131	48	0	179	0	20	0	67	1	87	0	15	109	0	0	124	0	0	0	0	0	0	390
Hourly Total	0	0	500	168	0	668	0	94	2	203	5	299	0	83	396	0	0	479	0	0	0	0	2	0	1446
12:00 PM	0	0	155	52	0	207	0	33	0	62	1	95	0	25	120	0	0	145	0	0	0	0	2	0	447
12:15 PM	0	0	120	46	0	166	0	31	1	63	0	95	0	25	125	0	0	150	0	0	0	0	0	0	411
12:30 PM	0	0	119	49	0	168	0	28	0	63	0	91	0	28	119	0	0	147	0	0	0	0	1	0	406
12:45 PM	0	0	113	34	0	147	0	30	1	73	0	104	0	16	107	0	0	123	0	0	0	0	0	0	374
Hourly Total	0	0	507	181	0	688	0	122	2	261	1	385	0	94	471	0	0	565	0	0	0	0	3	0	1638
1:00 PM	0	0	116	27	0	143	0	40	1	77	0	118	0	30	114	0	0	144	0	0	0	0	0	0	405
1:15 PM	0	0	124	36	0	160	0	23	0	59	0	82	0	23	111	0	0	134	0	0	0	0	2	0	376
1:30 PM	0	0	99	38	0	137	0	24	0	68	0	92	0	43	104	0	0	147	0	0	0	0	0	1	376
1:45 PM	0	0	112	62	0	174	0	22	0	83	0	105	0	30	106	0	0	136	0	0	0	0	0	0	415
Hourly Total	0	0	451	163	0	614	0	109	1	287	0	397	0	126	435	0	0	561	0	0	0	0	3	0	1572
2:00 PM	0	0	132	49	0	181	0	21	0	88	0	109	0	51	125	0	0	176	0	0	0	0	0	0	466
2:15 PM	0	0	119	50	0	169	0	38	0	107	0	145	2	35	112	0	0	149	0	0	0	0	0	0	463
2:30 PM	0	0	123	47	0	170	0	31	0	86	0	117	0	43	168	0	0	211	0	0	0	0	0	0	498
2:45 PM	0	0	98	64	0	162	0	35	0	107	0	142	0	58	163	0	0	221	0	0	0	0	0	0	525
Hourly Total	0	0	472	210	0	682	0	125	0	388	0	513	2	187	568	0	0	757	0	0	0	0	0	0	1952
3:00 PM	0	0	138	46	0	184	0	23	1	89	2	113	0	78	185	0	0	263	0	0	0	0	0	0	560
3:15 PM	0	0	114	52	0	166	0	20	1	121	0	142	0	63	171	0	0	234	0	0	0	0	0	0	542
3:30 PM	0	0	137	66	0	203	0	23	0	78	0	101	0	64	201	0	0	265	0	0	0	0	0	0	569
3:45 PM	0	0	117	73	0	190	0	15	0	101	0	116	0	68	173	0	0	241	0	0	0	0	1	0	547
Hourly Total	0	0	506	237	0	743	0	81	2	389	2	472	0	273	730	0	0	1003	0	0	0	0	1	0	2218

TMC 2649 - CSAH 7 @ North Highway 10 Ramps

Anoka MN

Thursday, August 27, 2026

Time	Southbound CSAH 7						Westbound North Highway 10 Off Ramp						Northbound CSAH 7						Eastbound North Highway 10 On Ramp						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	0	120	72	0	192	0	19	0	90	0	109	0	50	168	0	0	218	0	0	0	0	1	0	519
4:15 PM	0	0	123	64	0	187	0	14	0	76	0	90	0	91	185	0	0	276	0	0	0	0	0	0	553
4:30 PM	0	0	128	66	0	194	0	11	1	88	0	100	0	54	163	0	0	217	0	0	0	0	3	0	511
4:45 PM	0	0	126	47	0	173	0	20	0	79	0	99	1	47	182	0	0	230	0	0	0	0	0	0	502
Hourly Total	0	0	497	249	0	746	0	64	1	333	0	398	1	242	698	0	0	941	0	0	0	0	4	0	2085
5:00 PM	0	0	96	66	0	162	0	11	0	83	0	94	0	55	165	0	0	220	0	0	0	0	0	0	476
5:15 PM	0	0	144	54	0	198	0	9	0	93	0	102	0	52	176	0	0	228	0	0	0	0	0	0	528
5:30 PM	0	0	127	68	0	195	0	27	0	98	0	125	0	40	163	0	0	203	0	0	0	0	1	0	523
5:45 PM	0	0	101	47	0	148	0	11	0	81	1	92	0	38	143	0	0	181	0	0	0	0	0	0	421
Hourly Total	0	0	468	235	0	703	0	58	0	355	1	413	0	185	647	0	0	832	0	0	0	0	1	0	1948
6:00 PM	0	0	100	62	0	162	0	28	0	100	0	128	0	28	123	0	0	151	0	0	0	0	0	0	441
6:15 PM	0	0	106	34	0	140	0	30	0	73	0	103	0	35	138	0	0	173	0	0	0	0	1	0	416
6:30 PM	0	0	125	52	0	177	0	19	0	76	0	95	0	21	125	0	0	146	0	0	0	0	1	0	418
6:45 PM	1	0	113	30	1	144	0	23	1	64	1	88	0	33	83	0	0	116	0	0	0	0	1	0	348
Hourly Total	1	0	444	178	1	623	0	100	1	313	1	414	0	117	469	0	0	586	0	0	0	0	3	0	1623
7:00 PM	0	0	108	29	0	137	0	11	0	64	0	75	0	23	94	0	0	117	0	0	0	0	0	0	329
7:15 PM	0	0	78	29	0	107	0	9	1	69	1	79	0	20	88	0	0	108	0	0	0	0	0	0	294
7:30 PM	0	0	69	31	0	100	0	15	0	53	1	68	0	23	71	0	0	94	0	0	0	0	1	0	262
7:45 PM	0	0	75	22	0	97	0	14	0	74	1	88	0	31	77	0	0	108	0	0	0	0	0	0	293
Hourly Total	0	0	330	111	0	441	0	49	1	260	3	310	0	97	330	0	0	427	0	0	0	0	1	0	1178
8:00 PM	0	0	77	34	0	111	0	17	1	46	1	64	0	18	78	0	0	96	0	0	0	0	1	0	271
8:15 PM	0	0	56	36	0	92	0	25	0	62	0	87	0	15	76	0	0	91	0	0	0	0	0	0	270
8:30 PM	0	0	57	27	0	84	0	9	0	46	1	55	1	13	73	0	0	87	0	0	0	0	0	0	226
8:45 PM	0	0	63	24	0	87	0	18	1	45	0	64	0	10	64	0	0	74	0	0	0	0	2	0	225
Hourly Total	0	0	253	121	0	374	0	69	2	199	2	270	1	56	291	0	0	348	0	0	0	0	3	0	992
9:00 PM	0	0	56	30	0	86	0	12	0	53	0	65	0	11	52	0	0	63	0	0	0	0	0	0	214
9:15 PM	0	0	36	12	0	48	0	11	0	40	0	51	0	13	57	0	0	70	0	0	0	0	0	0	169
9:30 PM	0	0	24	13	0	37	0	8	0	38	0	46	1	14	50	0	0	65	0	0	0	0	0	0	148
9:45 PM	0	0	28	6	0	34	0	11	0	34	1	45	0	11	31	0	0	42	0	0	0	0	1	0	121
Hourly Total	0	0	144	61	0	205	0	42	0	165	1	207	1	49	190	0	0	240	0	0	0	0	1	0	652
10:00 PM	0	0	47	25	0	72	0	9	0	33	0	42	0	5	32	0	0	37	0	0	0	0	2	0	151
10:15 PM	0	0	41	22	0	63	0	11	0	37	0	48	0	8	31	0	0	39	0	0	0	0	1	0	150
10:30 PM	0	0	42	18	0	60	0	12	0	26	0	38	0	5	27	0	0	32	0	0	0	0	0	0	130
10:45 PM	0	0	24	12	0	36	0	5	0	28	0	33	0	7	39	0	0	46	0	0	0	0	0	0	115
Hourly Total	0	0	154	77	0	231	0	37	0	124	0	161	0	25	129	0	0	154	0	0	0	0	3	0	546
11:00 PM	0	0	27	11	0	38	0	5	0	26	0	31	0	16	24	0	0	40	0	0	0	0	0	0	109
11:15 PM	0	0	28	8	0	36	0	2	0	17	0	19	0	6	26	0	0	32	0	0	0	0	1	0	87
11:30 PM	0	0	33	26	0	59	0	8	0	14	0	22	0	15	18	0	0	33	0	0	0	0	1	0	114
11:45 PM	0	0	9	4	0	13	0	3	0	14	0	17	0	8	21	0	0	29	0	0	0	0	0	0	59
Hourly Total	0	0	97	49	0	146	0	18	0	71	0	89	0	45	89	0	0	134	0	0	0	0	2	0	369
DAILY TOTAL	1	0	8557	3535	1	12093	0	1623	28	4570	24	6221	5	2075	7189	0	0	9269	0	0	0	0	40	0	27583
Cars	1	0	8386	3449	0	11836	0	1597	28	4452	6	6077	5	2040	7035	0	0	9080	0	0	0	0	11	0	26993
Heavy Vehicles	0	0	171	86	1	257	0	26	0	118	18	144	0	35	154	0	0	189	0	0	0	0	29	0	590
Heavy Vehicle %	0.00%	0.00%	2.00%	2.43%	100.00%	2.13%	0.00%	1.60%	0.00%	2.58%	75.00%	2.31%	0.00%	1.69%	2.14%	0.00%	0.00%	2.04%	0.00%	0.00%	0.00%	0.00%	72.50%	0.00%	2.14%

TMC 2649 - CSAH 7 @ North Highway 10 Ramps
Anoka MN
Thursday, August 27, 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	203	98	0	301	0	30	0	51	0	81	0	31	71	0	0	102	0	0	0	0	1	0	484
7:30 AM	0	0	192	94	0	286	0	41	0	64	0	105	0	34	79	0	0	113	0	0	0	0	1	0	504
7:45 AM	0	0	200	66	0	266	0	70	6	107	1	183	0	27	92	0	0	119	0	0	0	0	0	0	568
8:00 AM	0	0	136	53	0	189	0	50	7	119	0	176	0	11	63	0	0	74	0	0	0	0	0	0	439
Peak Hour Total	0	0	731	311	0	1042	0	191	13	341	1	545	0	103	305	0	0	408	0	0	0	0	2	0	1995
Peak Hour Heavy Vehicles	0	0	15	14	0	29	0	0	0	15	1	15	0	2	9	0	0	11	0	0	0	0	1	0	55
Peak Hour Heavy Vehicles %	0.00%	0.00%	2.05%	4.50%	0.00%	2.78%	0.00%	0.00%	0.00%	4.40%	100.00%	2.75%	0.00%	1.94%	2.95%	0.00%	0.00%	2.70%	0.00%	0.00%	0.00%	0.00%	50.00%	0.00%	2.76%
PHF	0.000	0.000	0.900	0.793	0.000	0.865	0.000	0.682	0.464	0.716	0.250	0.745	0.000	0.757	0.829	0.000	0.000	0.857	0.000	0.000	0.000	0.000	0.500	0.000	0.878

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	
11:45 AM	0	0	131	48	0	179	0	20	0	67	1	87	0	15	109	0	0	124	0	0	0	0	0	0	390
12:00 PM	0	0	155	52	0	207	0	33	0	62	1	95	0	25	120	0	0	145	0	0	0	0	2	0	447
12:15 PM	0	0	120	46	0	166	0	31	1	63	0	95	0	25	125	0	0	150	0	0	0	0	0	0	411
12:30 PM	0	0	119	49	0	168	0	28	0	63	0	91	0	28	119	0	0	147	0	0	0	0	1	0	406
Peak Hour Total	0	0	525	195	0	720	0	112	1	255	2	368	0	93	473	0	0	566	0	0	0	0	3	0	1654
Peak Hour Heavy Vehicles	0	0	18	13	0	31	0	3	0	15	2	18	0	4	11	0	0	15	0	0	0	0	2	0	64
Peak Hour Heavy Vehicles %	0.00%	0.00%	3.43%	6.67%	0.00%	4.31%	0.00%	2.68%	0.00%	5.88%	100.00%	4.89%	0.00%	4.30%	2.33%	0.00%	0.00%	2.65%	0.00%	0.00%	0.00%	0.00%	66.67%	0.00%	3.87%
PHF	0.000	0.000	0.847	0.938	0.000	0.870	0.000	0.848	0.250	0.951	0.500	0.968	0.000	0.830	0.946	0.000	0.000	0.943	0.000	0.000	0.000	0.000	0.375	0.000	0.925

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

	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
Time	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	
3:00 PM	0	0	138	46	0	184	0	23	1	89	2	113	0	78	185	0	0	263	0	0	0	0	0	0	560
3:15 PM	0	0	114	52	0	166	0	20	1	121	0	142	0	63	171	0	0	234	0	0	0	0	0	0	542
3:30 PM	0	0	137	66	0	203	0	23	0	78	0	101	0	64	201	0	0	265	0	0	0	0	0	0	569
3:45 PM	0	0	117	73	0	190	0	15	0	101	0	116	0	68	173	0	0	241	0	0	0	0	1	0	547
Peak Hour Total	0	0	506	237	0	743	0	81	2	389	2	472	0	273	730	0	0	1003	0	0	0	0	1	0	2218
Peak Hour Heavy Vehicles	0	0	15	1	0	16	0	2	0	4	1	6	0	3	9	0	0	12	0	0	0	0	1	0	34
Peak Hour Heavy Vehicles %	0.00%	0.00%	2.96%	0.42%	0.00%	2.15%	0.00%	2.47%	0.00%	1.03%	50.00%	1.27%	0.00%	1.10%	1.23%	0.00%	0.00%	1.20%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	1.53%
PHF	0.000	0.000	0.917	0.812	0.000	0.915	0.000	0.880	0.500	0.804	0.250	0.831	0.000	0.875	0.908	0.000	0.000	0.946	0.000	0.000	0.000	0.000	0.250	0.000	0.975

Total Vehicles On Leg			23853		
Vehicles Entering Intersection		12093	Vehicles Exiting Intersection		11760
Southbound					
Cars	3449	8386	0	1	0
Heavy	86	171	0	0	1
Total	3535	8557	0	1	1



Total Vehicles on Leg 5638	Vehicles Entering Intersection 0	Eastbound	Cars	Heavy	Total
	Vehicles Exiting Intersection 5638		11	29	40
			0	0	0
			0	0	0
			0	0	0
			0	0	0

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection	Total Vehicles on Leg 6221
4452	118	4570		6221	
28	0	28			
1597	26	1623			
0	0	0		Vehicles Exiting Intersection 0	
6	18	24			

Cars	0	5	2040	7035	0
Heavy	0	0	35	154	0
Total	0	5	2075	7189	0
Northbound					
Vehicles Entering Intersection			Vehicles Exiting Intersection		
9269			10185		
Total Vehicles On Leg			19454		

TMC 2649 - CSAH 7 @ North Highway 10 Ramps

Anoka MN

Thursday, August 27, 2026

Time	Southbound Heavy CSAH 7						Westbound Heavy North Highway 10 Off Ramp						Northbound Heavy CSAH 7						Eastbound Heavy North Highway 10 On Ramp						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	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
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	3	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	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	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	
1:15 AM	0	0	1	1	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	
1:30 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	
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	1	1	0	2	0	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4	
2:00 AM	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	
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	1	0	0	
2:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	2	
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	1	0	0	0	2	0	0	2	0	0	0	0	2	0	3	
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	1	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	1	0	0	
3:30 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	
3:45 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2	
Hourly 'Heavy Vehicles'	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	2	0	3	
4:00 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	
4:15 AM	0	0	1	1	0	2	0	0	0	2	0	2	0	0	3	0	0	3	0	0	0	0	0	0	7	
4:30 AM	0	0	2	1	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4	
4:45 AM	0	0	2	1	0	3	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4	
Hourly 'Heavy Vehicles'	0	0	5	3	0	8	0	1	0	2	0	3	0	0	5	0	0	5	0	0	0	0	0	0	0	16
5:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	5	
5:15 AM	0	0	2	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	
5:30 AM	0	0	0	0	0	0	0	0	0	2	2	2	0	0	6	0	0	6	0	0	0	0	0	0	8	
5:45 AM	0	0	3	1	0	4	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	
Hourly 'Heavy Vehicles'	0	0	8	1	0	9	0	1	0	3	2	4	0	0	8	0	0	8	0	0	0	0	0	0	0	21
6:00 AM	0	0	1	3	0	4	0	3	0	4	4	7	0	0	1	0	0	1	0	0	0	0	0	0	12	
6:15 AM	0	0	3	1	0	4	0	0	0	2	0	2	0	1	0	0	0	1	0	0	0	0	0	0	7	
6:30 AM	0	0	4	2	0	6	0	4	0	1	0	5	0	0	1	0	0	1	0	0	0	0	0	0	12	
6:45 AM	0	0	3	0	0	3	0	0	0	1	0	1	0	1	4	0	0	5	0	0	0	0	0	0	9	
Hourly 'Heavy Vehicles'	0	0	11	6	0	17	0	7	0	8	4	15	0	2	6	0	0	8	0	0	0	0	0	0	0	40
7:00 AM	0	0	5	1	0	6	0	0	0	2	0	2	0	0	2	0	0	2	0	0	0	0	0	0	10	
7:15 AM	0	0	4	2	0	6	0	0	0	3	0	3	0	0	2	0	0	2	0	0	0	0	0	0	11	
7:30 AM	0	0	4	3	0	7	0	0	0	2	0	2	0	1	2	0	0	3	0	0	0	0	1	0	12	
7:45 AM	0	0	4	4	0	8	0	0	0	6	1	6	0	1	3	0	0	4	0	0	0	0	0	0	18	
Hourly 'Heavy Vehicles'	0	0	17	10	0	27	0	0	0	13	1	13	0	2	9	0	0	11	0	0	0	0	1	0	51	

TMC 2649 - CSAH 7 @ North Highway 10 Ramps

Anoka MN

Thursday, August 27, 2026

Time	Southbound Heavy CSAH 7						Westbound Heavy North Highway 10 Off Ramp						Northbound Heavy CSAH 7						Eastbound Heavy North Highway 10 On Ramp						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	3	5	0	8	0	0	0	4	0	4	0	0	2	0	0	0	2	0	0	0	0	0	0	14
8:15 AM	0	0	2	2	0	4	0	0	0	2	0	2	0	2	6	0	0	0	8	0	0	0	0	0	0	14
8:30 AM	0	0	6	2	0	8	0	0	0	3	0	3	0	0	6	0	0	0	6	0	0	0	0	0	0	17
8:45 AM	0	0	4	2	0	6	0	0	0	1	0	1	0	1	3	0	0	0	4	0	0	0	0	0	0	11
Hourly 'Heavy Vehicles'	0	0	15	11	0	26	0	0	0	10	0	10	0	3	17	0	0	0	20	0	0	0	0	0	0	56
9:00 AM	0	0	4	0	0	4	0	0	0	2	0	2	0	1	3	0	0	0	4	0	0	0	0	0	0	10
9:15 AM	0	0	4	2	0	6	0	0	0	2	0	2	0	1	5	0	0	0	6	0	0	0	0	0	0	14
9:30 AM	0	0	2	1	0	3	0	0	0	0	0	0	0	2	1	0	0	0	3	0	0	0	0	0	0	6
9:45 AM	0	0	1	1	0	2	0	0	0	2	0	2	0	0	2	0	0	0	2	0	0	0	0	0	0	6
Hourly 'Heavy Vehicles'	0	0	11	4	0	15	0	0	0	6	0	6	0	4	11	0	0	0	15	0	0	0	0	0	0	36
10:00 AM	0	0	1	1	0	2	0	0	0	0	0	0	0	1	8	0	0	0	9	0	0	0	0	0	0	11
10:15 AM	0	0	2	2	0	4	0	0	0	2	0	2	0	2	2	0	0	0	4	0	0	0	0	0	0	10
10:30 AM	0	0	3	3	0	6	0	0	0	2	0	2	0	2	6	0	0	0	8	0	0	0	0	0	0	16
10:45 AM	0	0	1	0	0	1	0	1	0	3	0	4	0	0	3	0	0	0	3	0	0	0	0	0	0	8
Hourly 'Heavy Vehicles'	0	0	7	6	0	13	0	1	0	7	0	8	0	5	19	0	0	0	24	0	0	0	0	0	0	45
11:00 AM	0	0	2	2	0	4	0	2	0	2	0	4	0	1	3	0	0	0	4	0	0	0	0	0	0	12
11:15 AM	0	0	6	0	0	6	0	0	0	3	1	3	0	0	3	0	0	0	3	0	0	0	0	1	0	12
11:30 AM	0	0	4	0	0	4	0	0	0	3	0	3	0	1	2	0	0	0	3	0	0	0	0	0	0	10
11:45 AM	0	0	6	5	0	11	0	0	0	4	1	4	0	0	5	0	0	0	5	0	0	0	0	0	0	20
Hourly 'Heavy Vehicles'	0	0	18	7	0	25	0	2	0	12	2	14	0	2	13	0	0	0	15	0	0	0	0	1	0	54
12:00 PM	0	0	5	1	0	6	0	0	0	5	1	5	0	1	5	0	0	0	6	0	0	0	0	2	0	17
12:15 PM	0	0	6	3	0	9	0	3	0	4	0	7	0	1	0	0	0	0	1	0	0	0	0	0	0	17
12:30 PM	0	0	1	4	0	5	0	0	0	2	0	2	0	2	1	0	0	0	3	0	0	0	0	0	0	10
12:45 PM	0	0	4	0	0	4	0	1	0	0	0	1	0	1	4	0	0	0	5	0	0	0	0	0	0	10
Hourly 'Heavy Vehicles'	0	0	16	8	0	24	0	4	0	11	1	15	0	5	10	0	0	0	15	0	0	0	0	2	0	54
1:00 PM	0	0	4	0	0	4	0	0	0	5	0	5	0	2	3	0	0	0	5	0	0	0	0	0	0	14
1:15 PM	0	0	2	2	0	4	0	1	0	1	0	2	0	1	1	0	0	0	2	0	0	0	0	1	0	8
1:30 PM	0	0	2	2	0	4	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	6
1:45 PM	0	0	1	0	0	1	0	1	0	3	0	4	0	0	2	0	0	0	2	0	0	0	0	0	0	7
Hourly 'Heavy Vehicles'	0	0	9	4	0	13	0	2	0	9	0	11	0	4	7	0	0	0	11	0	0	0	0	1	0	35
2:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	3
2:15 PM	0	0	2	1	0	3	0	0	0	3	0	3	0	0	1	0	0	0	1	0	0	0	0	0	0	7
2:30 PM	0	0	2	3	0	5	0	0	0	1	0	1	0	0	6	0	0	0	6	0	0	0	0	0	0	12
2:45 PM	0	0	5	2	0	7	0	1	0	2	0	3	0	0	2	0	0	0	2	0	0	0	0	0	0	12
Hourly 'Heavy Vehicles'	0	0	10	6	0	16	0	1	0	6	0	7	0	0	11	0	0	0	11	0	0	0	0	0	0	34
3:00 PM	0	0	6	1	0	7	0	0	0	1	1	1	0	0	2	0	0	0	2	0	0	0	0	0	0	10
3:15 PM	0	0	7	0	0	7	0	0	0	1	0	1	0	1	1	0	0	0	2	0	0	0	0	0	0	10
3:30 PM	0	0	2	0	0	2	0	2	0	0	0	2	0	0	1	0	0	0	1	0	0	0	0	0	0	5
3:45 PM	0	0	0	0	0	0	0	0	0	2	0	2	0	2	5	0	0	0	7	0	0	0	0	1	0	9
Hourly 'Heavy Vehicles'	0	0	15	1	0	16	0	2	0	4	1	6	0	3	9	0	0	0	12	0	0	0	0	1	0	34

TMC 2649 - CSAH 7 @ North Highway 10 Ramps
Anoka MN
Thursday, August 27, 2026

Time	Southbound Heavy CSAH 7						Westbound Heavy North Highway 10 Off Ramp						Northbound Heavy CSAH 7						Eastbound Heavy North Highway 10 On Ramp						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	4	1	0	5	0	0	0	1	0	1	0	0	6	0	0	6	0	0	0	0	1	0	12
4:15 PM	0	0	3	1	0	4	0	0	0	3	0	3	0	1	2	0	0	3	0	0	0	0	0	0	10
4:30 PM	0	0	3	1	0	4	0	1	0	4	0	5	0	1	4	0	0	5	0	0	0	0	3	0	14
4:45 PM	0	0	1	0	0	1	0	0	0	2	0	2	0	0	4	0	0	4	0	0	0	0	0	0	7
Hourly 'Heavy Vehicles'	0	0	11	3	0	14	0	1	0	10	0	11	0	2	16	0	0	18	0	0	0	0	4	0	43
5:00 PM	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
5:15 PM	0	0	3	0	0	3	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
5:30 PM	0	0	1	0	0	1	0	0	0	2	0	2	0	1	1	0	0	2	0	0	0	0	1	0	5
5:45 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	4	1	0	5	0	0	0	5	1	5	0	1	1	0	0	2	0	0	0	0	1	0	12
6:00 PM	0	0	1	0	0	1	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
6:15 PM	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	2
6:30 PM	0	0	0	1	0	1	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	1	0	3
6:45 PM	0	0	1	1	1	2	0	0	0	2	1	2	0	0	1	0	0	1	0	0	0	0	1	0	5
Hourly 'Heavy Vehicles'	0	0	2	3	1	5	0	0	0	6	1	6	0	0	2	0	0	2	0	0	0	0	3	0	13
7:00 PM	0	0	0	3	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	5
7:15 PM	0	0	3	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7:30 PM	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	2
7:45 PM	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	3	4	0	7	0	0	0	2	3	2	0	0	2	0	0	2	0	0	0	0	1	0	11
8:00 PM	0	0	1	0	0	1	0	0	0	1	1	1	0	0	1	0	0	1	0	0	0	0	1	0	3
8:15 PM	0	0	0	1	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	1	1	0	2	0	2	0	0	0	2	0	1	1	0	0	2	0	0	0	0	0	0	6
8:45 PM	0	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3
Hourly 'Heavy Vehicles'	0	0	4	3	0	7	0	2	0	1	1	3	0	1	2	0	0	3	0	0	0	0	2	0	13
9:00 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
9:15 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
9:30 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
9:45 PM	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	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
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
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	1	0	0
10:30 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10:45 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	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	3	0	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	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1
11:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1
11:45 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
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2	0	3
DAILY 'Heavy Vehicles'	0	0	171	86	1	257	0	26	0	118	18	144	0	35	154	0	0	189	0	0	0	0	29	0	590

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2649

Study Date : 09/01/2026

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 7

Number of Lanes : 2+

Total Approach Volume: 9,269

Southbound: CSAH 7

Number of Lanes :2+

Total Approach Volume: 12,093

Minor Street Approaches

Eastbound: North Highway 10 On Ramp

Number of Lanes :1

Total Approach Volume: 0

Westbound: North Highway 10 Off Ramp

Number of Lanes :1

Total Approach Volume: 1,651

Warrant Summary (Urban 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 17 hours, 8 are needed

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

Number of hours (8) 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 2649

Study Date : 09/01/2026

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

9 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 = **1**

Volume Requirements

Veh/Hr Major = **360**

Veh/Hr Minor = **90**

Major Road						Minor Road			
CSAH 7						North Highway 10 On Ramp			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
14:15 - 15:15	844	+	685	=	1529	0	128	Yes	
07:00 - 08:00	429	+	1094	=	1523	0	170	Yes	
17:30 - 18:30	708	+	645	=	1353	0	96	Yes	
13:15 - 14:15	593	+	652	=	1245	0	90	Yes	
06:00 - 07:00	258	+	985	=	1243	0	98	Yes	
11:15 - 12:15	496	+	711	=	1207	0	103	Yes	
12:15 - 13:15	564	+	624	=	1188	0	132	Yes	
08:00 - 09:00	357	+	774	=	1131	0	151	Yes	
10:15 - 11:15	450	+	661	=	1111	0	91	Yes	
15:30 - 16:30	1000	+	772	=	1772	0	71	No	
15:45 - 16:45	952	+	763	=	1715	0	60	No	
15:15 - 16:15	958	+	751	=	1709	0	78	No	
16:00 - 17:00	941	+	746	=	1687	0	65	No	
16:15 - 17:15	943	+	716	=	1659	0	57	No	
16:30 - 17:30	895	+	727	=	1622	0	52	No	
16:45 - 17:45	881	+	728	=	1609	0	67	No	
17:00 - 18:00	832	+	703	=	1535	0	58	No	
17:15 - 18:15	763	+	703	=	1466	0	75	No	
05:45 - 06:45	203	+	875	=	1078	0	85	No	
09:45 - 10:45	407	+	665	=	1072	0	75	No	
10:00 - 11:00	424	+	639	=	1063	0	80	No	
09:15 - 10:15	383	+	671	=	1054	0	72	No	
18:30 - 19:30	487	+	565	=	1052	0	64	No	
09:00 - 10:00	375	+	676	=	1051	0	75	No	
09:30 - 10:30	371		678		1049	0	74	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2649

Study Date : 09/01/2026

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

16 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 = **1**

Volume Requirements

Veh/Hr Major = **540**

Veh/Hr Minor = **45**

Major Road						Minor Road			
CSAH 7						North Highway 10 On Ramp			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
15:15 - 16:15	958	+	751	=	1709	0	78	Yes	
16:15 - 17:15	943	+	716	=	1659	0	57	Yes	
14:15 - 15:15	844	+	685	=	1529	0	128	Yes	
17:15 - 18:15	763	+	703	=	1466	0	75	Yes	
07:15 - 08:15	408	+	1042	=	1450	0	204	Yes	
06:15 - 07:15	303	+	1046	=	1349	0	109	Yes	
13:15 - 14:15	593	+	652	=	1245	0	90	Yes	
11:15 - 12:15	496	+	711	=	1207	0	103	Yes	
12:15 - 13:15	564	+	624	=	1188	0	132	Yes	
18:15 - 19:15	552	+	598	=	1150	0	84	Yes	
10:15 - 11:15	450	+	661	=	1111	0	91	Yes	
08:15 - 09:15	377	+	732	=	1109	0	112	Yes	
09:15 - 10:15	383	+	671	=	1054	0	72	Yes	
05:15 - 06:15	158	+	669	=	827	0	47	Yes	
19:15 - 20:15	406	+	415	=	821	0	57	Yes	
20:15 - 21:15	315	+	349	=	664	0	65	Yes	
05:00 - 06:00	127	+	599	=	726	0	44	No	
04:45 - 05:45	97	+	494	=	591	0	34	No	
04:30 - 05:30	71	+	394	=	465	0	29	No	
21:15 - 22:15	214	+	191	=	405	0	39	No	
21:30 - 22:30	183	+	206	=	389	0	39	No	
22:00 - 23:00	154	+	231	=	385	0	37	No	
04:15 - 05:15	67	+	315	=	382	0	30	No	
21:45 - 22:45	150	+	229	=	379	0	43	No	
22:15 - 23:15	157		197		354	0	33	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2649

Study Date : 09/01/2026

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

13 hours meet 1A minimums.
17 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 = **1**

Volume Requirements

Warrant 1A 1B
Veh/Hr Major = **288 432**

Veh/Hr Minor = **72 36**

Major Road						Minor Road				
CSAH 7						North Highway 10 On Ramp				
Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1A?
14:45 - 15:45	983	+	715	=	1698	0		103		Yes
06:45 - 07:45	414	+	1115	=	1529	0		125		Yes
17:15 - 18:15	763	+	703	=	1466	0		75		Yes
13:45 - 14:45	672	+	694	=	1366	0		112		Yes
11:45 - 12:45	566	+	720	=	1286	0		113		Yes
07:45 - 08:45	388	+	855	=	1243	0		200		Yes
18:15 - 19:15	552	+	598	=	1150	0		84		Yes
12:45 - 13:45	548	+	587	=	1135	0		119		Yes
10:45 - 11:45	464	+	629	=	1093	0		104		Yes
05:45 - 06:45	203	+	875	=	1078	0		85		Yes
09:45 - 10:45	407	+	665	=	1072	0		75		Yes
08:45 - 09:45	371		695		1066	0		79		Yes

Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1B?
15:00 - 16:00	1003	+	743	=	1746	0		83		Yes
16:00 - 17:00	941	+	746	=	1687	0		65		Yes
17:00 - 18:00	832	+	703	=	1535	0		58		Yes
07:00 - 08:00	429	+	1094	=	1523	0		170		Yes
14:00 - 15:00	757	+	682	=	1439	0		125		Yes
12:00 - 13:00	565	+	688	=	1253	0		124		Yes
06:00 - 07:00	258	+	985	=	1243	0		98		Yes
18:00 - 19:00	586	+	623	=	1209	0		101		Yes
13:00 - 14:00	561	+	614	=	1175	0		110		Yes
11:00 - 12:00	479	+	668	=	1147	0		96		Yes
08:00 - 09:00	357	+	774	=	1131	0		151		Yes
10:00 - 11:00	424		639		1063	0		80		Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2649

Study Date : 09/01/2026

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.

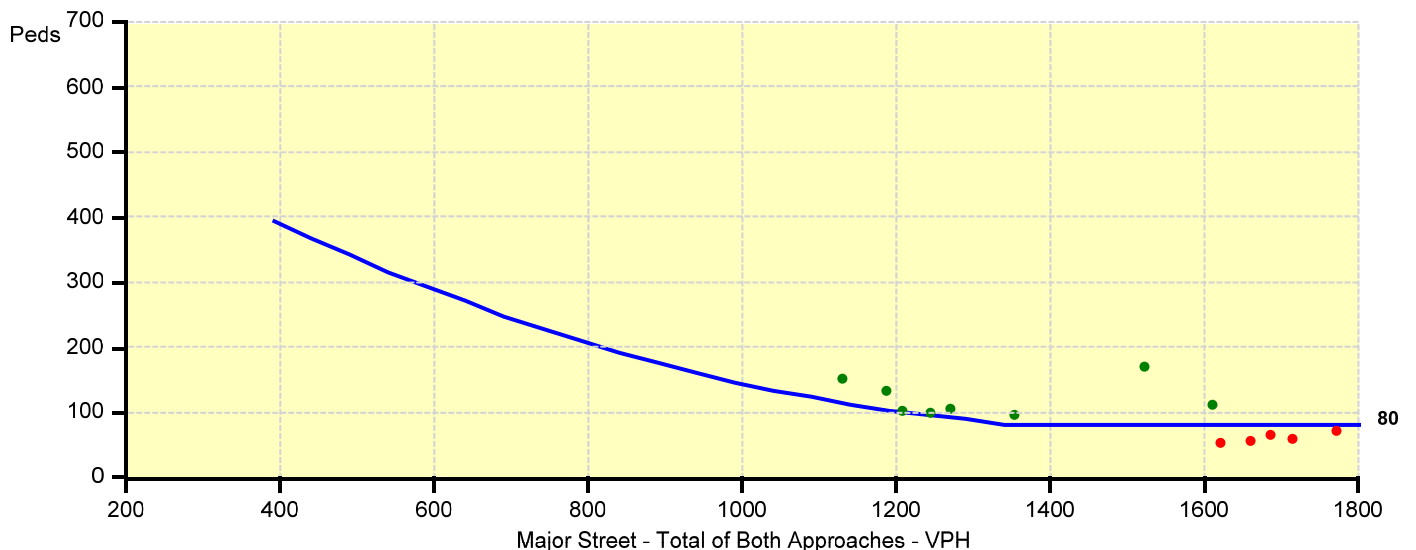
Summary

8 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 = **1**

Major Road CSAH 7						Minor Road North Highway 10 On Ramp		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
14:30 - 15:30	929	+	682	=	1611	0	111	Yes
07:00 - 08:00	429	+	1094	=	1523	0	170	Yes
17:30 - 18:30	708	+	645	=	1353	0	96	Yes
13:30 - 14:30	608	+	661	=	1269	0	105	Yes
06:00 - 07:00	258	+	985	=	1243	0	98	Yes
11:15 - 12:15	496	+	711	=	1207	0	103	Yes
12:15 - 13:15	564	+	624	=	1188	0	132	Yes
08:00 - 09:00	357	+	774	=	1131	0	151	Yes
15:30 - 16:30	1000	+	772	=	1772	0	71	No
15:45 - 16:45	952	+	763	=	1715	0	60	No
16:00 - 17:00	941	+	746	=	1687	0	65	No
16:15 - 17:15	943	+	716	=	1659	0	57	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2649

Study Date : 09/01/2026

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

4 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 = **1**

Major Road CSAH 7						Minor Road North Highway 10 On Ramp		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
07:00 - 08:00	429	+	1094	=	1523	0	170	Yes
07:15 - 08:15	408	+	1042	=	1450	0	204	Yes
07:30 - 08:30	414	+	959	=	1373	0	215	Yes
07:45 - 08:45	388	+	855	=	1243	0	200	Yes
15:30 - 16:30	1000	+	772	=	1772	0	71	No
15:00 - 16:00	1003	+	743	=	1746	0	83	No
15:45 - 16:45	952	+	763	=	1715	0	60	No
15:15 - 16:15	958	+	751	=	1709	0	78	No
14:45 - 15:45	983	+	715	=	1698	0	103	No
16:00 - 17:00	941	+	746	=	1687	0	65	No
16:15 - 17:15	943	+	716	=	1659	0	57	No
16:30 - 17:30	895	+	727	=	1622	0	52	No

