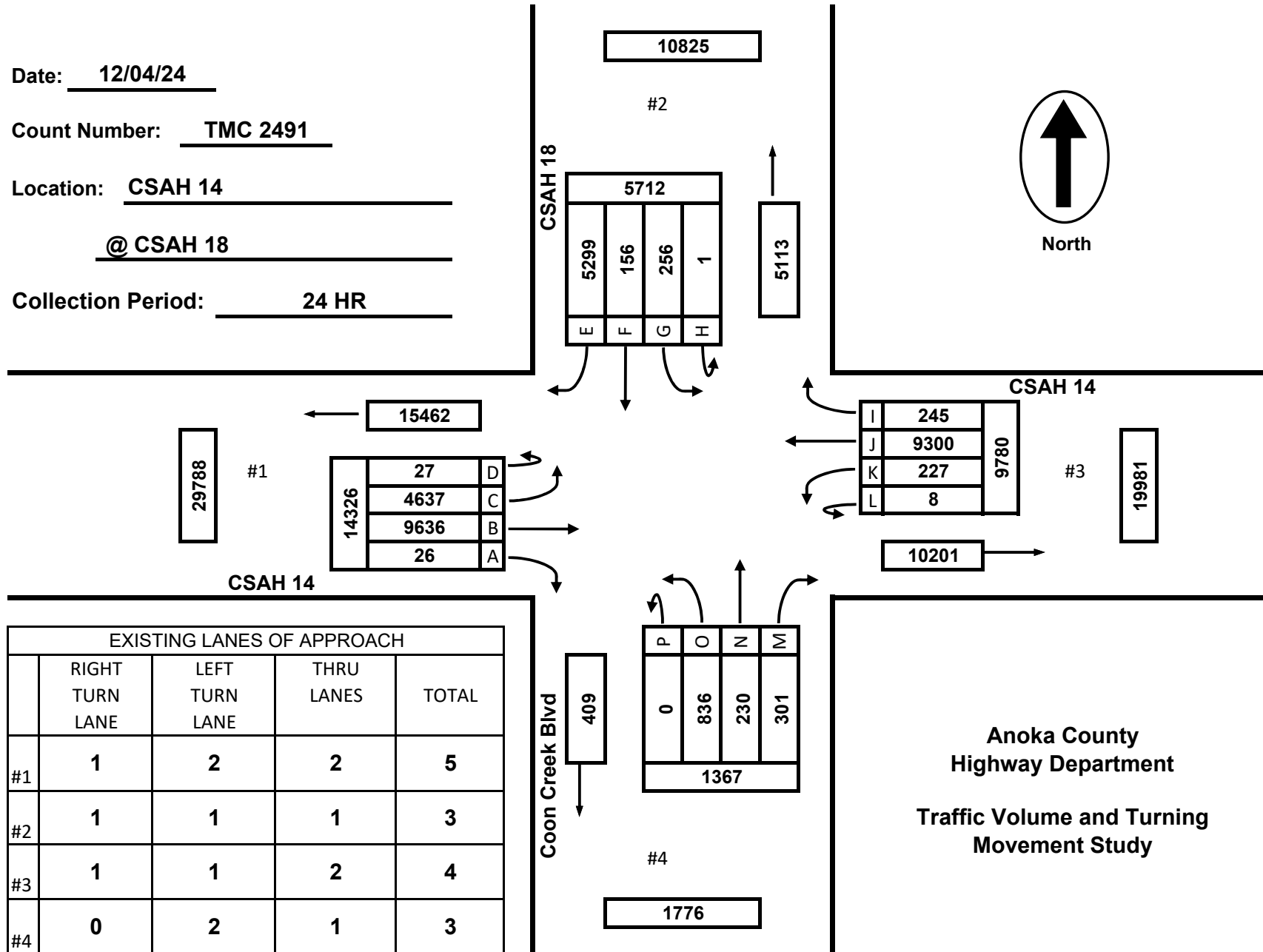
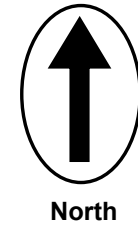


Date: 12/04/24

Count Number: TMC 2491

Location: CSAH 14  
@ CSAH 18

Collection Period: 24 HR



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	1	2	2	5
#2	1	1	1	3
#3	1	1	2	4
#4	0	2	1	3

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

Date: 12/04/24

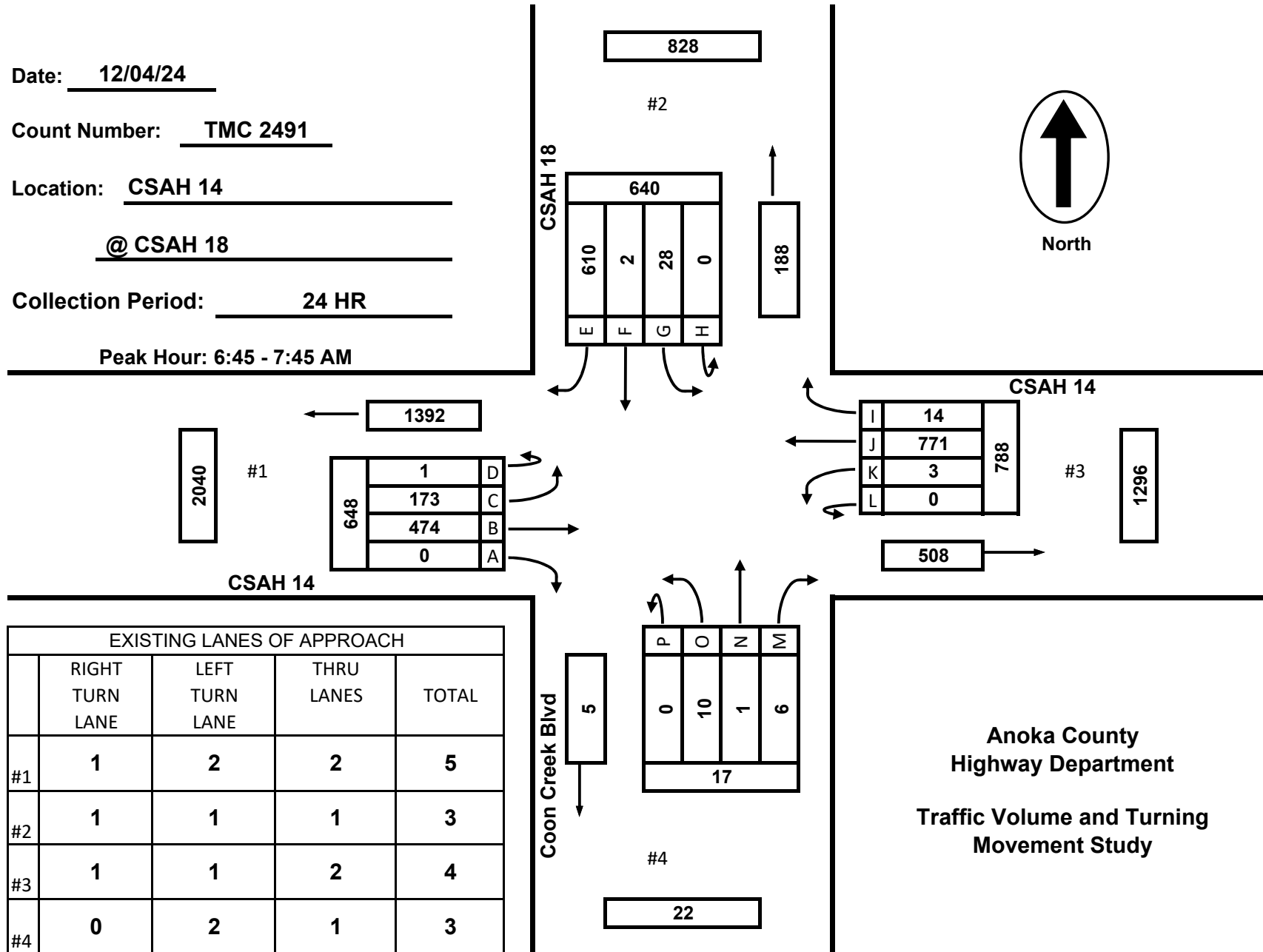
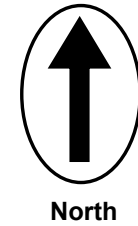
Count Number: TMC 2491

Location: CSAH 14

@ CSAH 18

Collection Period: 24 HR

Peak Hour: 6:45 - 7:45 AM



Anoka County  
Highway Department  
Traffic Volume and Turning  
Movement Study

Date: 12/04/24

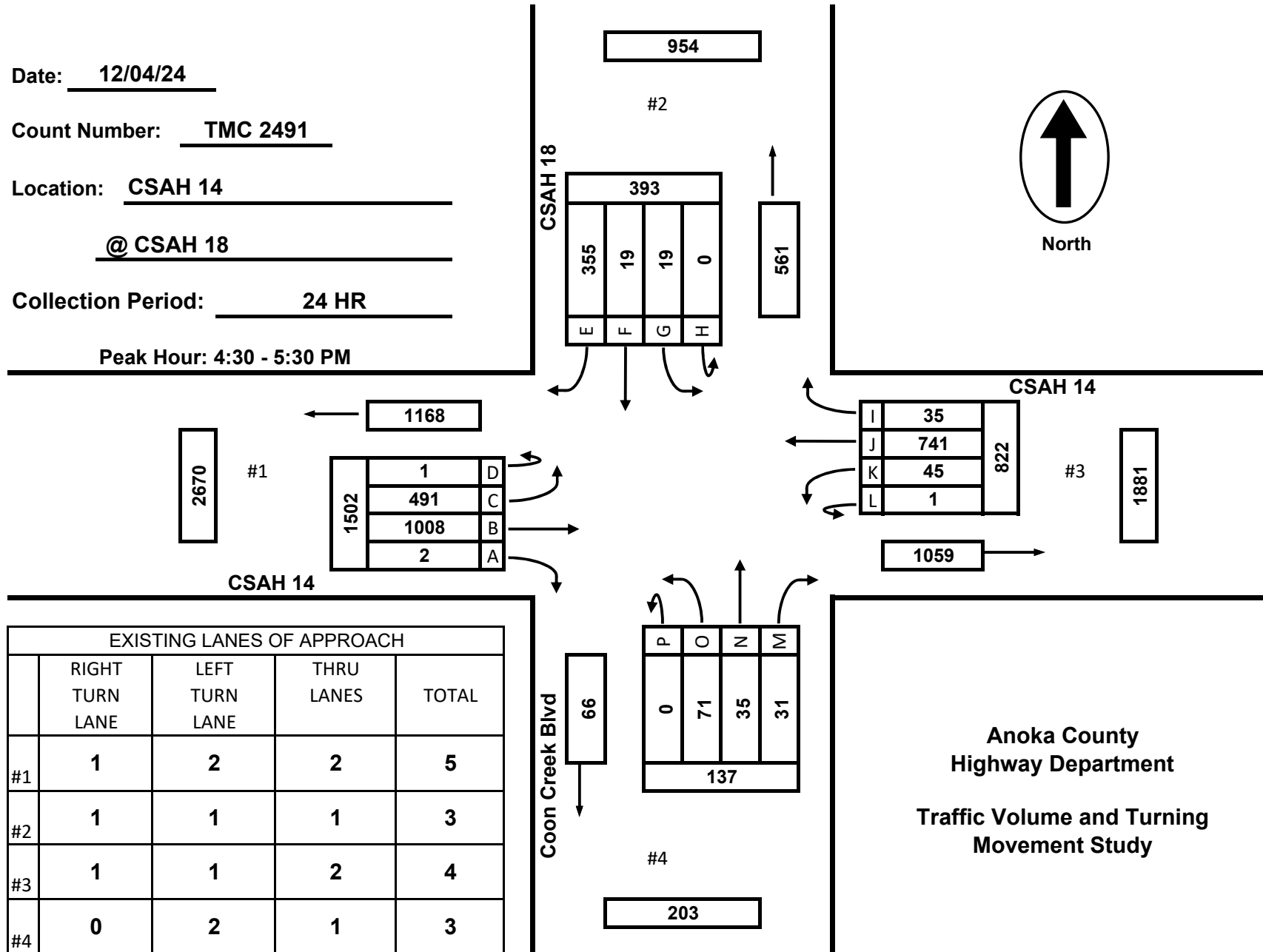
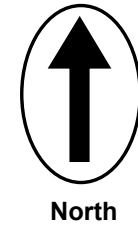
Count Number: TMC 2491

Location: CSAH 14

@ CSAH 18

Collection Period: 24 HR

Peak Hour: 4:30 - 5:30 PM



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	1	2	2	5
#2	1	1	1	3
#3	1	1	2	4
#4	0	2	1	3

Anoka County  
Highway Department  
Traffic Volume and Turning  
Movement Study

**TMC 2491 - CSAH 14 @ CSAH 18**  
**Coon Rapids MN**  
**Wednesday, December 4, 2024**

Time	Southbound CSAH 18						Westbound CSAH 14						Northbound Coon Creek Blvd						Eastbound CSAH 14						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
12:00 AM	0	1	0	3	0	4	0	0	8	0	0	8	0	0	0	0	0	0	0	7	14	0	0	21	33
12:15 AM	0	0	0	1	0	1	0	0	3	0	0	3	0	3	1	0	0	4	0	10	11	1	0	22	30
12:30 AM	0	0	0	4	0	4	0	0	4	2	0	6	0	0	0	0	0	0	0	6	5	0	0	11	21
12:45 AM	0	1	0	2	0	3	0	0	4	0	0	4	0	0	0	0	0	0	0	6	5	0	0	11	18
Hourly Total	0	2	0	10	0	12	0	0	19	2	0	21	0	3	1	0	0	4	0	29	35	1	0	65	102
1:00 AM	0	0	0	2	0	2	0	0	2	1	0	3	0	0	0	0	0	0	0	5	9	0	0	14	19
1:15 AM	0	0	0	2	0	2	0	0	4	0	0	4	0	0	0	0	0	0	0	2	10	0	0	12	18
1:30 AM	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	7	9
1:45 AM	0	1	0	4	0	5	0	0	5	0	0	5	0	0	0	1	0	1	0	2	8	0	0	10	21
Hourly Total	0	1	0	10	0	11	0	0	11	1	0	12	0	0	0	1	0	1	0	12	31	0	0	43	67
2:00 AM	0	1	0	1	0	2	0	0	5	0	0	5	0	0	0	0	0	0	0	5	6	1	0	12	19
2:15 AM	0	0	0	2	0	2	0	0	3	0	0	3	0	2	0	0	0	2	0	5	3	0	0	8	15
2:30 AM	0	0	0	4	0	4	0	2	0	0	0	2	0	0	0	0	0	0	0	1	5	0	0	6	12
2:45 AM	0	0	0	3	0	3	0	0	4	0	0	4	0	0	0	0	0	0	0	1	4	0	0	5	12
Hourly Total	0	1	0	10	0	11	0	2	12	0	0	14	0	2	0	0	0	2	0	12	18	1	0	31	58
3:00 AM	0	0	0	3	0	3	0	0	5	0	0	5	0	0	0	0	0	0	0	2	2	0	0	4	12
3:15 AM	0	0	0	3	0	3	0	0	5	0	0	5	0	0	0	0	0	0	0	2	3	0	0	5	13
3:30 AM	0	2	0	8	0	10	0	0	11	0	0	11	0	0	0	0	0	0	0	0	3	0	0	3	24
3:45 AM	0	0	0	6	0	6	0	0	9	0	0	9	0	0	0	0	0	0	0	1	3	0	0	4	19
Hourly Total	0	2	0	20	0	22	0	0	30	0	0	30	0	0	0	0	0	0	0	5	11	0	0	16	68
4:00 AM	0	0	0	10	0	10	0	0	14	0	0	14	0	0	0	0	0	0	0	1	6	0	0	7	31
4:15 AM	0	1	0	17	0	18	0	0	13	0	0	13	0	0	0	0	0	0	0	2	10	0	0	12	43
4:30 AM	0	0	1	25	0	26	0	1	24	0	0	25	0	0	0	0	0	0	0	5	9	0	0	14	65
4:45 AM	0	1	1	39	0	41	0	0	50	0	0	50	0	0	0	0	0	0	0	5	16	0	0	21	112
Hourly Total	0	2	2	91	0	95	0	1	101	0	0	102	0	0	0	0	0	0	0	13	41	0	0	54	251
5:00 AM	0	1	0	29	0	30	0	0	27	0	0	27	0	0	0	0	0	0	0	7	14	0	0	21	78
5:15 AM	0	0	0	50	0	50	0	0	50	0	0	50	0	0	0	0	0	0	0	5	22	0	0	27	127
5:30 AM	0	2	2	65	0	69	0	0	80	1	0	81	0	0	0	0	0	0	0	5	35	0	0	40	190
5:45 AM	0	1	3	62	0	66	0	2	77	0	0	79	0	0	1	0	0	1	0	11	35	1	0	47	193
Hourly Total	0	4	5	206	0	215	0	2	234	1	0	237	0	0	1	0	0	1	0	28	106	1	0	135	588
6:00 AM	0	2	2	70	0	74	0	0	78	0	0	78	0	1	0	0	0	1	0	11	55	0	0	66	219
6:15 AM	0	2	1	103	0	106	0	0	95	1	0	96	0	0	0	0	0	0	0	15	64	0	0	79	281
6:30 AM	0	6	2	135	0	143	0	0	141	1	0	142	0	2	0	0	0	2	0	19	69	0	0	88	375
6:45 AM	0	2	2	131	0	135	0	0	148	1	0	149	0	1	0	0	0	1	0	27	73	0	0	100	385
Hourly Total	0	12	7	439	0	458	0	0	462	3	0	465	0	4	0	0	0	4	0	72	261	0	0	333	1260
7:00 AM	0	6	0	148	0	154	0	1	145	4	0	150	0	2	0	1	0	3	0	37	97	0	0	134	441
7:15 AM	0	6	0	145	0	151	0	0	217	3	0	220	0	2	0	2	0	4	0	40	119	0	0	159	534
7:30 AM	0	11	2	166	0	179	0	1	197	3	0	201	0	1	1	0	0	2	0	44	125	0	0	169	551
7:45 AM	0	5	0	151	0	156	0	1	212	4	0	217	0	5	0	3	0	8	1	52	133	0	0	186	567
Hourly Total	0	28	2	610	0	640	0	3	771	14	0	788	0	10	1	6	0	17	1	173	474	0	0	648	2093

**TMC 2491 - CSAH 14 @ CSAH 18  
Coon Rapids MN  
Wednesday, December 4, 2024**

Time	Southbound CSAH 18						Westbound CSAH 14						Northbound Coon Creek Blvd						Eastbound CSAH 14						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalks	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalks	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalks	Vehicle Approach Total	
8:00 AM	0	5	1	103	0	109	0	1	174	4	0	179	0	6	0	2	0	8	1	31	105	0	0	137	
8:15 AM	0	2	2	71	0	75	0	1	152	4	0	157	0	4	1	2	0	7	0	39	105	1	0	145	
8:30 AM	0	2	4	75	0	81	0	1	136	2	0	139	0	2	1	2	0	5	0	35	91	0	0	126	
8:45 AM	0	4	0	103	0	107	0	3	176	5	0	184	0	5	2	1	0	8	1	42	93	1	0	137	
Hourly Total	0	13	7	352	0	372	0	6	638	15	0	659	0	17	4	7	0	28	2	147	394	2	0	545	
9:00 AM	0	3	4	91	0	98	0	0	136	3	0	139	0	8	1	4	0	13	0	38	103	0	0	141	
9:15 AM	0	3	1	101	0	105	0	2	165	5	0	172	0	7	2	1	0	10	1	48	107	0	0	156	
9:30 AM	0	3	2	88	0	93	0	3	165	2	0	170	0	8	0	4	0	12	0	44	87	1	0	132	
9:45 AM	0	2	2	94	0	98	0	2	191	4	0	197	0	10	0	3	0	13	0	49	135	1	0	185	
Hourly Total	0	11	9	374	0	394	0	7	657	14	0	678	0	33	3	12	0	48	1	179	432	2	0	614	
10:00 AM	0	6	4	90	0	100	0	4	140	2	0	146	0	10	0	4	0	14	0	50	100	0	0	150	
10:15 AM	0	6	1	88	0	95	0	1	180	5	0	186	0	10	8	3	0	21	1	40	117	0	0	158	
10:30 AM	0	2	4	78	0	84	0	2	153	2	0	157	0	9	2	2	0	13	0	51	129	1	0	181	
10:45 AM	0	6	1	96	0	103	0	2	150	1	0	153	0	16	4	5	0	25	0	59	125	0	0	184	
Hourly Total	0	20	10	352	0	382	0	9	623	10	0	642	0	45	14	14	0	73	1	200	471	1	0	673	
11:00 AM	0	5	1	60	0	66	0	5	139	1	0	145	0	7	5	2	0	14	2	76	157	0	0	235	
11:15 AM	0	4	1	79	0	84	0	4	151	0	0	155	0	13	5	2	0	20	1	64	152	0	0	217	
11:30 AM	0	2	4	59	0	65	1	1	115	7	0	124	0	7	2	4	0	13	0	67	160	0	0	227	
11:45 AM	0	6	3	80	0	89	0	7	177	4	0	188	0	13	6	5	0	24	2	60	156	1	0	219	
Hourly Total	0	17	9	278	0	304	1	17	582	12	0	612	0	40	18	13	0	71	5	267	625	1	0	898	
12:00 PM	0	4	3	72	0	79	0	5	144	2	0	151	0	9	3	5	0	17	1	81	171	0	0	253	
12:15 PM	0	3	3	61	0	67	0	2	144	3	0	149	0	10	4	6	0	20	0	76	173	0	0	249	
12:30 PM	0	2	2	68	0	72	0	2	128	5	0	135	0	16	3	5	0	24	1	65	157	0	0	223	
12:45 PM	0	3	8	84	0	95	0	4	122	4	0	130	0	14	3	3	0	20	0	69	145	1	0	215	
Hourly Total	0	12	16	285	0	313	0	13	538	14	0	565	0	49	13	19	0	81	2	291	646	1	0	940	
1:00 PM	0	5	0	71	0	76	0	3	142	2	0	147	0	15	5	3	0	23	4	72	158	2	0	236	
1:15 PM	0	2	3	64	0	69	1	3	141	4	0	149	0	17	1	7	0	25	1	68	154	1	0	224	
1:30 PM	0	3	4	74	0	81	0	1	140	2	0	143	0	16	7	4	0	27	1	65	149	1	0	216	
1:45 PM	0	4	1	74	0	79	0	1	136	3	0	140	0	11	2	4	0	17	0	70	204	0	0	274	
Hourly Total	0	14	8	283	0	305	1	8	559	11	0	579	0	59	15	18	0	92	6	275	665	4	0	950	
2:00 PM	0	7	1	70	0	78	0	3	110	4	0	117	0	22	5	3	0	30	0	91	170	1	0	262	
2:15 PM	0	3	0	69	0	72	0	3	155	1	0	159	0	10	5	7	0	22	0	101	171	1	0	273	
2:30 PM	0	3	5	74	0	82	0	3	125	3	0	131	0	16	4	3	0	23	1	107	193	0	0	301	
2:45 PM	0	6	3	66	0	75	0	3	174	2	0	179	0	18	1	1	0	20	0	87	182	0	0	269	
Hourly Total	0	19	9	279	0	307	0	12	564	10	0	586	0	66	15	14	0	95	1	386	716	2	0	1105	
3:00 PM	1	3	2	74	0	80	0	3	190	8	0	201	0	13	6	1	0	20	1	111	189	1	0	302	
3:15 PM	0	4	4	67	0	75	1	6	165	9	0	181	0	19	3	4	0	26	0	121	216	0	0	337	
3:30 PM	0	4	3	72	0	79	0	11	145	7	0	163	0	9	4	4	0	17	0	131	202	0	0	333	
3:45 PM	0	4	2	68	0	74	0	9	211	8	0	228	0	17	10	4	0	31	2	156	230	0	0	388	
Hourly Total	1	15	11	281	0	308	1	29	711	32	0	773	0	58	23	13	0	94	3	519	837	1	0	1360	

**TMC 2491 - CSAH 14 @ CSAH 18  
Coon Rapids MN  
Wednesday, December 4, 2024**

Time	Southbound CSAH 18						Westbound CSAH 14						Northbound Coon Creek Blvd						Eastbound CSAH 14						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	5	78	0	87	0	8	163	6	0	177	0	15	8	7	0	30	1	135	265	1	0	402	696
4:15 PM	0	5	5	97	0	107	0	16	206	8	0	230	0	17	9	8	0	34	0	114	246	0	0	360	731
4:30 PM	0	5	4	86	0	95	1	8	159	12	0	180	0	13	6	7	0	26	0	138	233	0	0	371	672
4:45 PM	0	5	5	94	0	104	0	13	213	9	0	235	0	26	12	9	0	47	0	104	264	1	0	369	755
Hourly Total	0	19	19	355	0	393	1	45	741	35	0	822	0	71	35	31	0	137	1	491	1008	2	0	1502	2854
5:00 PM	0	3	6	97	0	106	0	12	153	5	0	170	0	23	4	11	0	38	0	118	253	0	0	371	685
5:15 PM	0	5	4	101	0	110	0	13	181	7	0	201	0	16	15	7	0	38	0	107	230	0	0	337	686
5:30 PM	0	4	1	81	0	86	1	8	184	5	0	198	0	22	13	5	0	40	0	103	210	1	0	314	638
5:45 PM	0	6	3	74	0	83	1	8	172	8	0	189	0	26	4	15	0	45	0	80	195	2	0	277	594
Hourly Total	0	18	14	353	0	385	2	41	690	25	0	758	0	87	36	38	0	161	0	408	888	3	0	1299	2603
6:00 PM	0	3	1	82	0	86	0	13	138	4	0	155	0	27	2	10	0	39	0	94	180	0	0	274	554
6:15 PM	0	6	1	69	0	76	0	4	122	9	0	135	0	19	4	5	0	28	0	123	169	0	0	292	531
6:30 PM	0	4	6	76	0	86	0	2	84	2	0	88	0	25	4	13	0	42	1	85	132	0	0	218	434
6:45 PM	0	1	4	69	0	74	0	3	133	2	0	138	0	22	5	8	0	35	2	86	155	1	0	244	491
Hourly Total	0	14	12	296	0	322	0	22	477	17	0	516	0	93	15	36	0	144	3	388	636	1	0	1028	2010
7:00 PM	0	4	1	51	0	56	0	3	92	3	0	98	0	16	3	13	0	32	0	68	122	0	0	190	376
7:15 PM	0	3	5	32	0	40	0	0	77	2	0	79	0	26	4	10	0	40	0	72	119	0	0	191	350
7:30 PM	0	0	2	37	0	39	0	0	68	0	0	68	0	27	6	10	0	43	0	61	114	0	0	175	325
7:45 PM	0	2	1	22	0	25	1	1	62	4	0	68	0	19	2	15	0	36	0	67	127	1	0	195	324
Hourly Total	0	9	9	142	0	160	1	4	299	9	0	313	0	88	15	48	0	151	0	268	482	1	0	751	1375
8:00 PM	0	5	3	27	0	35	1	1	63	0	0	65	0	12	3	5	0	20	1	41	118	0	0	160	280
8:15 PM	0	3	2	40	0	45	0	0	70	4	0	74	0	17	3	9	0	29	0	63	94	1	0	158	306
8:30 PM	0	3	1	31	0	35	0	1	57	2	0	60	0	9	2	3	0	14	0	52	94	0	0	146	255
8:45 PM	0	6	0	25	0	31	0	1	64	2	0	67	0	6	1	1	0	8	0	50	71	1	0	122	228
Hourly Total	0	17	6	123	0	146	1	3	254	8	0	266	0	44	9	18	0	71	1	206	377	2	0	566	1069
9:00 PM	0	0	0	30	0	30	0	0	53	3	0	56	0	12	1	1	0	14	0	36	71	0	0	107	207
9:15 PM	0	1	1	22	0	24	0	0	52	2	0	54	0	11	1	3	0	15	0	36	83	0	0	119	212
9:30 PM	0	0	0	19	0	19	0	1	32	1	0	34	0	10	5	1	0	16	0	27	53	0	0	80	149
9:45 PM	0	1	0	22	0	23	0	0	41	0	0	41	0	2	2	0	0	4	0	25	43	0	0	68	136
Hourly Total	0	2	1	93	0	96	0	1	178	6	0	185	0	35	9	5	0	49	0	124	250	0	0	374	704
10:00 PM	0	0	0	13	0	13	0	1	31	1	0	33	0	10	1	2	0	13	0	26	46	0	0	72	131
10:15 PM	0	1	0	9	0	10	0	1	27	1	0	29	0	5	0	2	0	7	0	26	50	0	0	76	122
10:30 PM	0	1	0	9	0	10	0	0	27	0	0	27	0	0	1	2	0	3	0	27	27	0	0	54	94
10:45 PM	0	0	0	9	0	9	0	0	18	0	0	18	0	3	0	0	0	3	0	15	22	0	0	37	67
Hourly Total	0	2	0	40	0	42	0	2	103	2	0	107	0	18	2	6	0	26	0	94	145	0	0	239	414
11:00 PM	0	1	0	7	0	8	0	0	13	1	0	14	0	8	1	1	0	10	0	14	21	0	0	35	67
11:15 PM	0	0	0	6	0	6	0	0	19	0	0	19	0	4	0	1	0	5	0	11	22	0	0	33	63
11:30 PM	0	0	0	3	0	3	0	0	12	2	0	14	0	2	0	0	0	2	0	12	27	0	0	39	58
11:45 PM	0	1	0	1	0	2	0	0	2	1	0	3	0	0	0	0	0	0	0	13	17	0	0	30	35
Hourly Total	0	2	0	17	0	19	0	0	46	4	0	50	0	14	1	2	0	17	0	50	87	0	0	137	223
<b>DAILY TOTAL</b>	<b>1</b>	<b>256</b>	<b>156</b>	<b>5299</b>	<b>0</b>	<b>5712</b>	<b>8</b>	<b>227</b>	<b>9300</b>	<b>245</b>	<b>0</b>	<b>9780</b>	<b>0</b>	<b>836</b>	<b>230</b>	<b>301</b>	<b>0</b>	<b>1367</b>	<b>27</b>	<b>4637</b>	<b>9636</b>	<b>26</b>	<b>0</b>	<b>14326</b>	<b>31185</b>
<b>Cars</b>	1	244	155	5227	0	5627	8	224	9133	237	0	9602	0	821	229	295	0	1345	26	4565	9456	19	0	14066	30640
<b>Heavy Vehicles</b>	0	12	1	72	0	85	0	3	167	8	0	178	0	15	1	6	0	22	1	72	180	7	0	260	545
<b>Heavy Vehicle %</b>	0.00%	4.69%	0.64%	1.36%	0.00%	1.49%	0.00%	1.32%	1.80%	3.27%	0.00%	1.82%	0.00%	1.79%	0.43%	1.99%	0.00%	1.61%	3.70%	1.55%	1.87%	26.92%	0.00%	1.81%	1.75%

**TMC 2491 - CSAH 14 @ CSAH 18  
Coon Rapids MN  
Wednesday, December 4, 2024**

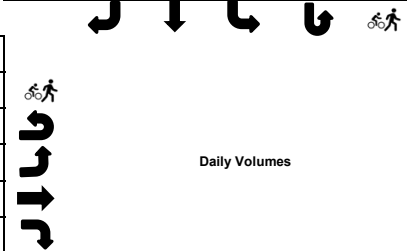
**AM Peak Hour**

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
7:00 AM	0	6	0	148	0	154	0	1	145	4	0	150	0	2	0	1	0	3	0	37	97	0	0	134	
7:15 AM	0	6	0	145	0	151	0	0	217	3	0	220	0	2	0	2	0	4	0	40	119	0	0	159	
7:30 AM	0	11	2	166	0	179	0	1	197	3	0	201	0	1	1	0	0	2	0	44	125	0	0	169	
7:45 AM	0	5	0	151	0	156	0	1	212	4	0	217	0	5	0	3	0	8	1	52	133	0	0	186	
Peak Hour Total	0	28	2	610	0	640	0	3	771	14	0	788	0	10	1	6	0	17	1	173	474	0	0	648	
PHF	0.000	0.636	0.250	0.919	0.000	0.894	0.000	0.750	0.888	0.875	0.000	0.895	0.000	0.500	0.250	0.500	0.000	0.531	0.250	0.832	0.891	0.000	0.000	0.871	

**PM Peak Hour**

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	4	5	78	0	87	0	8	163	6	0	177	0	15	8	7	0	30	1	135	265	1	0	402	
4:15 PM	0	5	5	97	0	107	0	16	206	8	0	230	0	17	9	8	0	34	0	114	246	0	0	360	
4:30 PM	0	5	4	86	0	95	1	8	159	12	0	180	0	13	6	7	0	26	0	138	233	0	0	371	
4:45 PM	0	5	5	94	0	104	0	13	213	9	0	235	0	26	12	9	0	47	0	104	264	1	0	369	
Peak Hour Total	0	19	19	355	0	393	1	45	741	35	0	822	0	71	35	31	0	137	1	491	1008	2	0	1502	
PHF	0.000	0.950	0.950	0.915	0.000	0.918	0.250	0.703	0.870	0.729	0.000	0.874	0.000	0.683	0.729	0.861	0.000	0.729	0.250	0.889	0.951	0.500	0.000	0.934	

Total Vehicles On Leg		10825	
Vehicles Entering Intersection	5712	Vehicles Exiting Intersection	5113
<b>Southbound</b>			
Cars	5227	155	244
Heavy	72	1	12
<b>Total</b>	<b>5299</b>	<b>156</b>	<b>256</b>



Cars	Heavy	Total	Westbound	Vehicles Entering Intersection	Total Vehicles on Leg
237	8	245			
9133	167	9300			
224	3	227			
8	0	8			
0	0	0	Vehicles Exiting Intersection	10201	

Total Vehicles on Leg	Vehicles Entering Intersection	Eastbound	Cars	Heavy	Total
			0	0	0
			26	1	27
			4565	72	4637
			9456	180	9636
19	7	26			
	Vehicles Exiting Intersection				
29788	14326				
	15462				

Cars	Heavy	Total	Northbound
0	0	821	
0	0	15	
<b>Total</b>	<b>0</b>	<b>836</b>	<b>230</b>
<b>Northbound</b>			
Vehicles Entering Intersection		Vehicles Exiting Intersection	
1367		409	
Total Vehicles On Leg		1776	





# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2491

Study Date : 12/09/2024

## Signal Warrants - Summary

### Major Street Approaches

**Eastbound: CSAH 14**

Number of Lanes : 2+

Total Approach Volume: 14,326

**Westbound: CSAH 14**

Number of Lanes :2+

Total Approach Volume: 9,780

### Minor Street Approaches

**Northbound: Coon Creek Blvd**

Number of Lanes :2+

Total Approach Volume: 1,066

**Southbound: CSAH 18**

Number of Lanes :2+

Total Approach Volume: 413

### Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 0 hours, 8 are needed

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

Required volumes reached for 8 hours, 8 are needed

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

Required 1A volumes reached for 2 hours, 8 are needed

Required 1B volumes reached for 10 hours, 8 are needed

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

Number of hours (7) 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 2491

Study Date : 12/09/2024

## Warrant 1A - Minimum Volumes

#### Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

#### Summary

Only 0 one hour periods meet minimums.  
Warrant is NOT met.

#### Site Data Required

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

#### Volume Requirements

Rural Factor of 70 % applied  
 Veh/Hr Major = **420**  
 Veh/Hr Minor = **140**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:45 - 16:45	1521	+	815	=	2336	95	34	No
16:00 - 17:00	1502	+	822	=	2324	106	38	No
16:15 - 17:15	1471	+	815	=	2286	110	38	No
15:30 - 16:30	1483	+	798	=	2281	89	32	No
16:30 - 17:30	1448	+	786	=	2234	115	37	No
15:15 - 16:15	1460	+	749	=	2209	85	30	No
16:45 - 17:45	1391	+	804	=	2195	131	33	No
15:00 - 16:00	1360	+	773	=	2133	81	27	No
17:00 - 18:00	1299	+	758	=	2057	123	32	No
14:45 - 15:45	1241	+	724	=	1965	73	30	No
17:15 - 18:15	1202	+	743	=	1945	125	27	No
14:30 - 15:30	1209	+	692	=	1901	80	31	No
17:30 - 18:30	1157	+	677	=	1834	117	25	No
14:15 - 15:15	1145	+	670	=	1815	73	26	No
14:00 - 15:00	1105	+	586	=	1691	81	28	No
13:45 - 14:45	1110	+	547	=	1657	75	24	No
17:45 - 18:45	1061	+	567	=	1628	111	30	No
13:30 - 14:30	1025	+	559	=	1584	78	23	No
11:45 - 12:45	944	+	623	=	1567	64	26	No
11:30 - 12:30	948	+	612	=	1560	54	28	No
18:00 - 19:00	1028	+	516	=	1544	108	26	No
11:15 - 12:15	916	+	618	=	1534	58	27	No
13:00 - 14:00	950	+	579	=	1529	74	22	No
13:15 - 14:15	976	+	549	=	1525	81	25	No
11:00 - 12:00	898		612		1510	58	26	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2491

Study Date : 12/09/2024

## 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

8 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**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:15 - 17:15	1471	+	815	=	2286	110	38	Yes
15:15 - 16:15	1460	+	749	=	2209	85	30	Yes
17:15 - 18:15	1202	+	743	=	1945	125	27	Yes
14:15 - 15:15	1145	+	670	=	1815	73	26	Yes
13:15 - 14:15	976	+	549	=	1525	81	25	Yes
12:15 - 13:15	923	+	561	=	1484	70	26	Yes
18:15 - 19:15	944	+	459	=	1403	98	27	Yes
19:15 - 20:15	721	+	280	=	1001	99	21	Yes
11:45 - 12:45	944	+	623	=	1567	64	26	No
11:30 - 12:30	948	+	612	=	1560	54	28	No
11:15 - 12:15	916	+	618	=	1534	58	27	No
11:00 - 12:00	898	+	612	=	1510	58	26	No
12:00 - 13:00	940	+	565	=	1505	62	28	No
07:15 - 08:15	651	+	817	=	1468	15	30	No
10:45 - 11:45	863	+	577	=	1440	59	24	No
07:00 - 08:00	648	+	788	=	1436	11	30	No
10:30 - 11:30	817	+	610	=	1427	61	24	No
10:15 - 11:15	758	+	641	=	1399	61	26	No
07:30 - 08:30	637	+	754	=	1391	18	28	No
09:45 - 10:45	674	+	686	=	1360	49	27	No
09:30 - 10:30	625	+	699	=	1324	46	26	No
10:00 - 11:00	673	+	642	=	1315	59	30	No
09:15 - 10:15	623	+	685	=	1308	37	23	No
09:00 - 10:00	614	+	678	=	1292	36	20	No
07:45 - 08:45	594		692		1286	19	21	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2491

Study Date : 12/09/2024

## Warrant 1C Combination of Warrants

#### Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

#### Summary

Only 2 hours meet 1A minimums.  
10 hours meet 1B minimums.  
Warrant is NOT met.

#### Site Data Required

Rural Settings Apply = **True**  
Number of Major Lanes = **2 or more**  
Number of Minor Lanes = **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 CSAH 14

#### Minor Road Coon Creek Blvd

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
16:30 - 17:30	1448	+	786	=	2234	115	37	Yes
17:30 - 18:30	1157	+	677	=	1834	117	25	Yes
15:45 - 16:45	1521	+	815	=	2336	95	34	No
16:00 - 17:00	1502	+	822	=	2324	106	38	No
16:15 - 17:15	1471	+	815	=	2286	110	38	No
15:30 - 16:30	1483	+	798	=	2281	89	32	No
15:15 - 16:15	1460	+	749	=	2209	85	30	No
15:00 - 16:00	1360	+	773	=	2133	81	27	No
14:45 - 15:45	1241	+	724	=	1965	73	30	No
14:30 - 15:30	1209	+	692	=	1901	80	31	No
14:15 - 15:15	1145	+	670	=	1815	73	26	No
14:00 - 15:00	1105	+	586	=	1691	81	28	No

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:00 - 17:00	1502	+	822	=	2324	106	38	Yes
15:00 - 16:00	1360	+	773	=	2133	81	27	Yes
17:00 - 18:00	1299	+	758	=	2057	123	32	Yes
14:00 - 15:00	1105	+	586	=	1691	81	28	Yes
18:00 - 19:00	1028	+	516	=	1544	108	26	Yes
13:00 - 14:00	950	+	579	=	1529	74	22	Yes
11:00 - 12:00	898	+	612	=	1510	58	26	Yes
12:00 - 13:00	940	+	565	=	1505	62	28	Yes
10:00 - 11:00	673	+	642	=	1315	59	30	Yes
19:00 - 20:00	751	+	313	=	1064	103	18	Yes
07:15 - 08:15	651	+	817	=	1468	15	30	No
07:00 - 08:00	648	+	788	=	1436	11	30	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2491

Study Date : 12/09/2024

## 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.

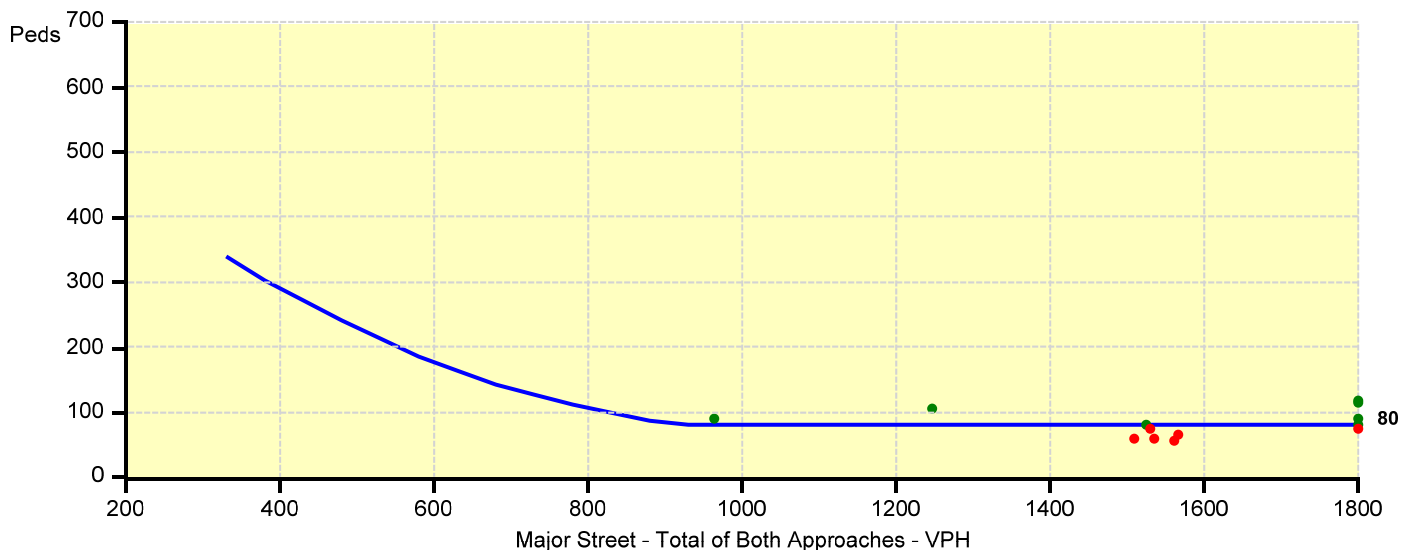
### Summary

7 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**

Time	Major Road CSAH 14				Total	Minor Road Coon Creek Blvd		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:30 - 16:30	1483	+	798	=	2281	89	32	Yes
16:30 - 17:30	1448	+	786	=	2234	115	37	Yes
14:30 - 15:30	1209	+	692	=	1901	80	31	Yes
17:30 - 18:30	1157	+	677	=	1834	117	25	Yes
13:15 - 14:15	976	+	549	=	1525	81	25	Yes
18:30 - 19:30	843	+	403	=	1246	105	28	Yes
19:30 - 20:30	688	+	275	=	963	89	18	Yes
14:15 - 15:15	1145	+	670	=	1815	73	26	No
11:45 - 12:45	944	+	623	=	1567	64	26	No
11:30 - 12:30	948	+	612	=	1560	54	28	No
11:15 - 12:15	916	+	618	=	1534	58	27	No
13:00 - 14:00	950	+	579	=	1529	74	22	No



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2491

Study Date : 12/09/2024

## 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

11 one hour periods meet minimums.  
Warrant IS met.

#### Site Data Required

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

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	<b>CSAH 14</b>					<b>Coon Creek Blvd</b>		
16:00 - 17:00	1502	+	822	=	2324	106	38	Yes
16:15 - 17:15	1471	+	815	=	2286	110	38	Yes
16:30 - 17:30	1448	+	786	=	2234	115	37	Yes
16:45 - 17:45	1391	+	804	=	2195	131	33	Yes
17:00 - 18:00	1299	+	758	=	2057	123	32	Yes
17:15 - 18:15	1202	+	743	=	1945	125	27	Yes
17:30 - 18:30	1157	+	677	=	1834	117	25	Yes
17:45 - 18:45	1061	+	567	=	1628	111	30	Yes
18:00 - 19:00	1028	+	516	=	1544	108	26	Yes
18:30 - 19:30	843	+	403	=	1246	105	28	Yes
18:45 - 19:45	800	+	383	=	1183	109	20	Yes
15:45 - 16:45	1521		815		2336	95	34	No

