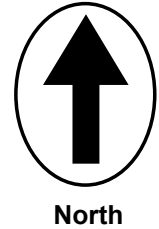


Date : 05/24/23

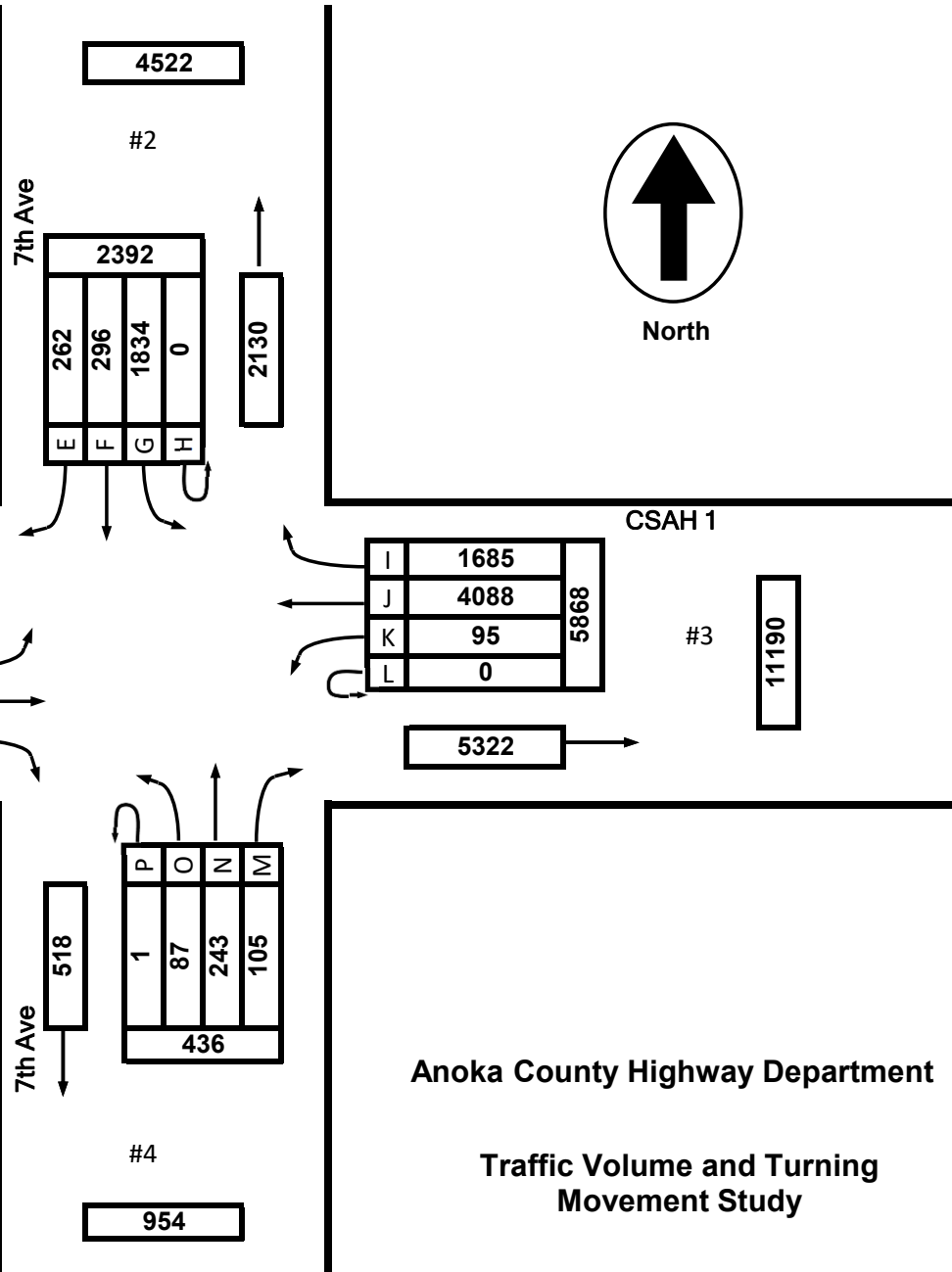
Count Number : TMC 2361

Location : CSAH 1  
@ 7th Ave.

Collection Period : 6 AM - 9PM



North



CSAH 1

CSAH 1

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

Anoka County Highway Department

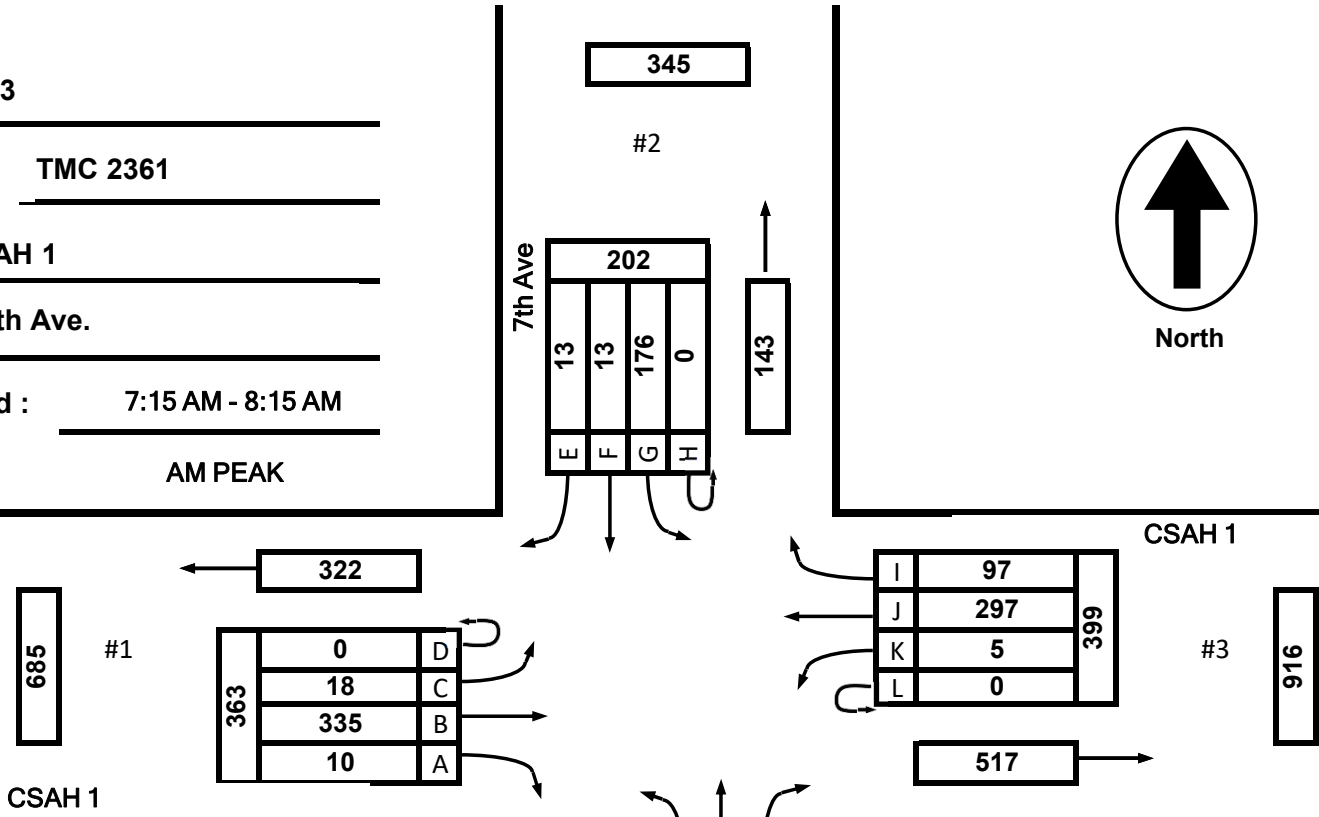
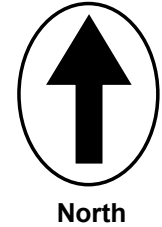
Traffic Volume and Turning Movement Study

Date : 05/24/23

Count Number : TMC 2361

Location : CSAH 1  
@ 7th Ave.

Collection Period : 7:15 AM - 8:15 AM  
**AM PEAK**



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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

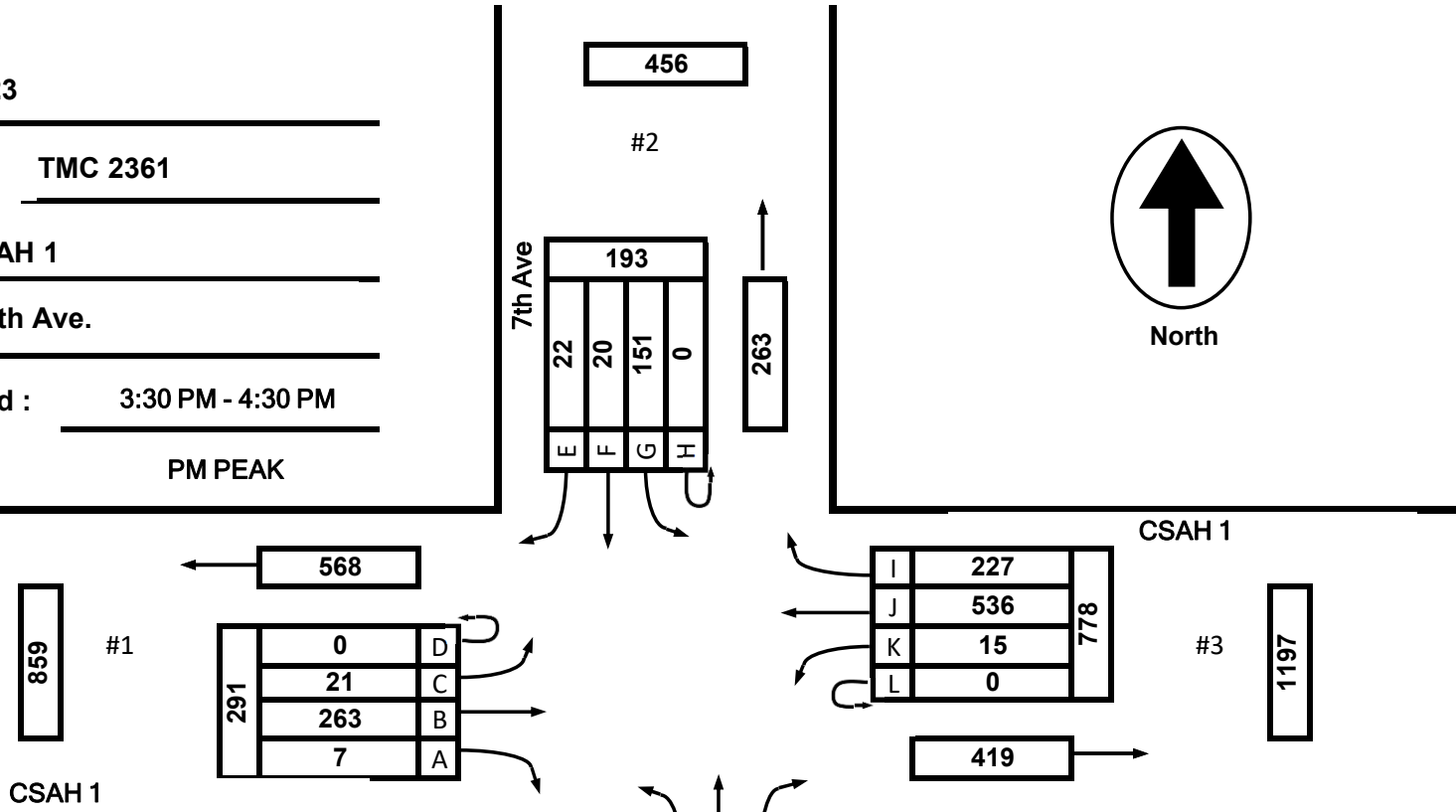
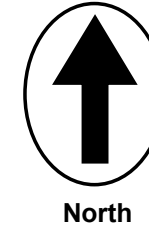
Date : 05/24/23

Count Number : TMC 2361

Location : CSAH 1  
@ 7th Ave.

Collection Period : 3:30 PM - 4:30 PM

PM PEAK



CSAH 1

CSAH 1

7th Ave

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

Anoka County Highway Department  
 Traffic Volume and Turning Movement Study

TMC 2361 - CSAH 1 @ 7th Ave.

0 0

Wednesday, May 24, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	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
3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 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
5:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 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 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	29	1	2	0	32	0	0	21	5	0	26	0	1	2	0	1	3	0	1	18	0	0	19	80
6:15 AM	0	41	2	3	0	46	0	0	40	13	0	53	0	2	2	2	0	6	0	1	52	0	0	53	158
6:30 AM	0	64	0	1	0	65	0	0	42	13	0	55	0	2	3	0	5	5	0	4	64	0	0	68	193
6:45 AM	0	62	2	7	0	71	0	0	33	17	0	50	0	2	8	2	0	12	0	3	109	0	1	112	245
Hourly Total	0	196	5	13	0	214	0	0	136	48	0	184	0	7	15	4	1	26	0	9	243	0	1	252	676
7:00 AM	0	36	1	2	1	39	0	1	46	16	0	63	0	1	7	5	0	13	0	2	69	1	0	72	187
7:15 AM	0	36	4	5	2	45	0	2	62	21	0	85	0	4	8	3	0	15	0	3	85	1	0	89	234
7:30 AM	0	54	2	2	1	58	0	0	104	29	0	133	0	3	11	2	0	16	0	3	88	2	0	93	300
7:45 AM	0	42	1	3	0	46	0	0	76	24	0	100	0	2	5	0	0	7	0	3	75	5	0	83	236
Hourly Total	0	168	8	12	4	188	0	3	288	90	0	381	0	10	31	10	0	51	0	11	317	9	0	337	957

TMC 2361 - CSAH 1 @ 7th Ave.

0 0

Wednesday, May 24, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						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	44	6	3	0	53	0	3	55	23	0	81	0	3	4	1	1	8	0	9	87	2	0	98	240
8:15 AM	0	31	5	6	1	42	0	2	46	22	0	70	0	2	5	0	0	7	0	2	59	4	0	65	184
8:30 AM	0	37	11	2	0	50	0	0	46	15	2	61	0	0	6	1	0	7	0	2	45	3	0	50	168
8:45 AM	0	60	11	7	0	78	0	3	44	27	4	74	0	2	3	4	0	9	0	3	57	2	0	62	223
Hourly Total	0	172	33	18	1	223	0	8	191	87	6	286	0	7	18	6	1	31	0	16	248	11	0	275	815
9:00 AM	0	23	4	1	2	28	0	4	45	19	0	68	0	0	2	3	0	5	0	1	44	3	0	48	149
9:15 AM	0	22	4	3	2	29	0	3	55	25	2	83	0	0	1	2	0	3	0	1	52	2	0	55	170
9:30 AM	0	26	5	2	0	33	0	0	46	26	0	72	0	1	4	3	2	8	0	1	47	4	0	52	165
9:45 AM	0	25	3	7	1	35	0	3	49	24	0	76	1	5	1	2	0	9	0	4	50	6	0	60	180
Hourly Total	0	96	16	13	5	125	0	10	195	94	2	299	1	6	8	10	2	25	0	7	193	15	0	215	664
10:00 AM	0	24	3	1	0	28	0	1	69	17	0	87	0	1	2	7	0	10	0	7	48	3	0	58	183
10:15 AM	0	22	3	4	0	29	0	1	70	12	0	83	0	0	2	0	1	2	0	3	62	2	0	67	181
10:30 AM	0	34	2	5	1	41	0	3	58	21	0	82	0	1	3	0	0	4	0	2	47	3	0	52	179
10:45 AM	0	33	3	6	2	42	0	3	66	16	1	85	0	0	4	4	0	8	0	5	60	3	0	68	203
Hourly Total	0	113	11	16	3	140	0	8	263	66	1	337	0	2	11	11	1	24	0	17	217	11	0	245	746
11:00 AM	0	28	5	5	0	38	0	1	68	21	0	90	0	1	5	2	0	8	0	2	29	1	0	32	168
11:15 AM	0	23	5	1	0	29	0	0	60	27	0	87	0	2	2	0	0	4	0	2	41	1	0	44	164
11:30 AM	0	24	8	7	0	39	0	3	51	24	0	78	0	3	2	1	1	6	0	6	51	2	1	59	182
11:45 AM	0	22	10	8	1	40	0	1	52	24	0	77	0	0	2	2	0	4	0	5	46	5	1	56	177
Hourly Total	0	97	28	21	1	146	0	5	231	96	0	332	0	6	11	5	1	22	0	15	167	9	2	191	691
12:00 PM	0	23	7	9	0	39	0	2	55	26	0	83	0	2	2	3	0	7	0	3	42	5	0	50	179
12:15 PM	0	24	4	4	1	32	0	1	59	11	0	71	0	4	2	6	1	12	0	4	62	2	0	68	183
12:30 PM	0	33	3	2	0	38	0	2	52	28	0	82	0	3	3	2	0	8	0	2	50	5	0	57	185
12:45 PM	0	23	6	5	1	34	0	1	51	20	0	72	0	3	3	2	0	8	0	3	63	4	0	70	184
Hourly Total	0	103	20	20	2	143	0	6	217	85	0	308	0	12	10	13	1	35	0	12	217	16	0	245	731
1:00 PM	0	35	6	3	0	44	0	2	66	29	0	97	0	2	12	2	0	16	0	2	57	4	0	63	220
1:15 PM	0	35	5	2	0	42	0	2	61	21	0	84	0	1	3	1	0	5	0	0	40	1	1	41	172
1:30 PM	0	53	8	8	0	69	0	2	57	36	0	95	0	1	2	1	0	4	0	4	56	0	0	60	228
1:45 PM	0	34	12	4	0	50	0	4	73	28	0	105	0	2	5	1	1	8	0	3	56	3	0	62	225
Hourly Total	0	157	31	17	0	205	0	10	257	114	0	381	0	6	22	5	1	33	0	9	209	8	1	226	845
2:00 PM	0	26	13	5	1	44	0	0	77	32	1	109	0	1	4	2	0	7	0	4	76	1	0	81	241
2:15 PM	0	33	4	4	0	41	0	2	83	37	0	122	0	1	5	2	0	8	0	1	61	3	0	65	236
2:30 PM	0	31	8	5	0	44	0	2	87	31	1	120	0	0	12	0	0	12	0	7	61	1	0	69	245
2:45 PM	0	43	7	9	0	59	0	2	95	43	0	140	0	1	3	1	0	5	0	1	85	5	0	91	295
Hourly Total	0	133	32	23	1	188	0	6	342	143	2	491	0	3	24	5	0	32	0	13	283	10	0	306	1017
3:00 PM	0	31	4	10	1	45	0	2	97	50	0	149	0	2	4	1	0	9	0	1	85	5	0	91	292
3:15 PM	0	30	7	5	0	42	0	1	129	44	0	174	0	1	4	4	3	9	0	9	81	3	1	93	318
3:30 PM	0	46	4	5	0	55	0	4	142	52	2	198	0	6	5	2	1	13	0	9	65	1	0	75	341
3:45 PM	0	29	3	6	2	38	0	3	121	47	0	171	0	2	5	3	1	10	0	5	74	1	0	80	299
Hourly Total	0	136	18	26	3	180	0	10	489	193	2	692	0	11	18	10	5	39	0	24	305	10	1	339	1250

TMC 2361 - CSAH 1 @ 7th Ave.

0 0

Wednesday, May 24, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						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	38	7	2	0	47	0	7	136	79	0	222	0	1	4	0	2	5	0	3	54	1	0	58	332
4:15 PM	0	38	6	9	0	53	0	1	137	49	0	187	0	1	1	0	0	2	0	4	70	4	0	78	320
4:30 PM	0	31	5	7	0	43	0	0	119	62	1	181	0	1	9	2	0	12	0	5	62	3	0	70	306
4:45 PM	0	36	7	6	0	49	0	3	124	64	2	191	0	1	6	1	0	8	0	4	53	2	0	59	307
Hourly Total	0	143	25	24	0	192	0	11	516	254	3	781	0	4	20	3	2	27	0	16	239	10	0	265	1265
5:00 PM	0	26	2	8	0	36	0	1	125	52	0	178	0	3	6	0	0	9	0	11	68	2	0	81	304
5:15 PM	0	27	7	6	0	40	0	2	112	62	1	176	0	0	7	4	1	11	0	3	66	1	0	70	297
5:30 PM	0	26	7	7	0	40	0	2	82	36	0	120	0	1	4	3	0	8	0	4	59	0	0	63	231
5:45 PM	0	25	8	2	1	35	0	2	87	42	0	131	0	0	8	0	0	8	0	4	50	3	0	57	231
Hourly Total	0	104	24	23	1	151	0	7	406	192	1	605	0	4	25	7	1	36	0	22	243	6	0	271	1063
6:00 PM	0	24	5	3	0	32	0	2	68	29	0	99	0	1	2	1	0	4	0	3	50	1	0	54	189
6:15 PM	0	25	7	3	1	35	0	1	74	27	0	102	0	1	3	1	0	5	0	3	61	2	0	66	208
6:30 PM	0	32	8	4	0	44	0	0	58	26	0	84	0	0	8	3	0	11	0	3	55	0	0	58	197
6:45 PM	0	16	3	3	2	22	0	1	53	13	0	67	0	2	2	4	0	8	0	2	60	0	0	62	159
Hourly Total	0	97	23	13	3	133	0	4	253	95	0	352	0	4	15	9	0	28	0	11	226	3	0	240	753
7:00 PM	0	22	2	4	0	28	0	1	49	21	0	71	0	1	2	2	0	5	0	2	55	2	0	59	163
7:15 PM	0	24	1	3	0	28	0	3	38	15	0	56	0	2	1	0	0	3	0	4	32	1	0	37	124
7:30 PM	0	16	4	0	0	20	0	1	52	24	0	77	0	0	2	1	2	3	0	3	46	0	0	49	149
7:45 PM	0	17	3	4	0	24	0	1	42	21	0	64	0	0	4	2	0	6	0	0	35	0	0	35	129
Hourly Total	0	79	10	11	0	100	0	6	181	81	0	268	0	3	9	5	2	17	0	9	168	3	0	180	565
8:00 PM	0	6	2	2	1	10	0	1	41	13	0	55	0	0	0	0	0	0	0	2	35	1	0	38	103
8:15 PM	0	10	5	4	0	19	0	0	27	10	0	37	0	2	3	0	0	5	0	1	23	2	0	26	87
8:30 PM	0	8	2	5	0	15	0	0	33	12	0	45	0	0	3	2	1	5	0	7	26	1	0	34	99
8:45 PM	0	16	3	1	0	20	0	0	22	12	0	34	0	0	0	0	0	0	0	1	24	1	0	26	80
Hourly Total	0	40	12	12	1	64	0	1	123	47	0	171	0	2	6	2	1	10	0	11	108	5	0	124	369
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 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
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	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
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	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
<b>DAILY TOTAL</b>	<b>0</b>	<b>1834</b>	<b>296</b>	<b>262</b>	<b>25</b>	<b>2392</b>	<b>0</b>	<b>95</b>	<b>4088</b>	<b>1685</b>	<b>17</b>	<b>5868</b>	<b>1</b>	<b>87</b>	<b>243</b>	<b>105</b>	<b>19</b>	<b>436</b>	<b>0</b>	<b>202</b>	<b>3383</b>	<b>126</b>	<b>5</b>	<b>3711</b>	<b>12407</b>
<b>Cars</b>	0	1739	281	256	19	2276	0	93	4018	1627	12	5738	1	84	234	104	11	423	0	198	3338	124	5	3660	12097
<b>Heavy Vehicles</b>	0	95	15	6	6	116	0	2	70	58	5	130	0	3	9	1	8	13	0	4	45	2	0	51	310
<b>Heavy Vehicle %</b>	0.00%	5.18%	5.07%	2.29%	24.00%	4.85%	0.00%	2.11%	1.71%	3.44%	29.41%	2.22%	0.00%	3.45%	3.70%	0.95%	42.11%	2.98%	0.00%	1.98%	1.33%	1.59%	0.00%	1.37%	2.50%

### TMC 2361 - CSAH 1 @ 7th Ave.

0 0

Wednesday, May 24, 2023

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							
7:15 AM	0	36	4	5	2	45	0	2	62	21	0	85	0	4	8	3	0	15	0	3	85	1	0	89	0	3	88	2	0	93	234
7:30 AM	0	54	2	2	1	58	0	0	104	29	0	133	0	3	11	2	0	16	0	3	88	2	0	93	0	3	75	5	0	83	300
7:45 AM	0	42	1	3	0	46	0	0	76	24	0	100	0	2	5	0	0	7	0	3	75	5	0	83	0	9	87	2	0	98	236
8:00 AM	0	44	6	3	0	53	0	3	55	23	0	81	0	3	4	1	1	8	0	9	87	2	0	98	0	9	87	2	0	98	240
Peak Hour Total	0	176	13	13	3	202	0	5	297	97	0	399	0	12	28	6	1	46	0	18	335	10	0	363	0	18	335	10	0	363	1010
PHF	0.000	0.815	0.542	0.650	0.375	0.871	0.000	0.417	0.714	0.836	0.000	0.750	0.000	0.750	0.636	0.500	0.250	0.719	0.000	0.500	0.952	0.500	0.000	0.926	0.000	0.500	0.952	0.500	0.000	0.926	0.842

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							
3:30 PM	0	46	4	5	0	55	0	4	142	52	2	198	0	6	5	2	1	13	0	9	65	1	0	75	0	9	65	1	0	75	341
3:45 PM	0	29	3	6	2	38	0	3	121	47	0	171	0	2	5	3	1	10	0	5	74	1	0	80	0	5	74	1	0	80	299
4:00 PM	0	38	7	2	0	47	0	7	136	79	0	222	0	1	4	0	2	5	0	3	54	1	0	58	0	3	54	1	0	58	332
4:15 PM	0	38	6	9	0	53	0	1	137	49	0	187	0	1	1	0	0	2	0	4	70	4	0	78	0	4	70	4	0	78	320
Peak Hour Total	0	151	20	22	2	193	0	15	536	227	2	778	0	10	15	5	4	30	0	21	263	7	0	291	0	21	263	7	0	291	1292
PHF	0.000	0.821	0.714	0.611	0.250	0.877	0.000	0.536	0.944	0.718	0.250	0.876	0.000	0.417	0.750	0.417	0.500	0.577	0.000	0.583	0.889	0.438	0.000	0.909	0.000	0.583	0.889	0.438	0.000	0.909	0.947

Total Vehicles On Leg				4522	
Vehicles Entering Intersection		2392	Vehicles Exiting Intersection		2130
<b>Southbound</b>					
Cars	256	281	1739	0	19
Heavy	6	15	95	0	6
<b>Total</b>	<b>262</b>	<b>296</b>	<b>1834</b>	<b>0</b>	<b>25</b>

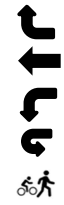


Total Vehicles on Leg 8148	Vehicles Entering Intersection 3711	Eastbound	Cars	Heavy	Total
			5	0	5
0	0	0			
198	4	202			
3338	45	3383			
124	2	126			



Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 5868	Total Vehicles on Leg 11190
1627	58	1685			
4018	70	4088			
93	2	95			
0	0	0			
12	5	17			



Cars	Heavy	Total	Northbound		
11	1	84	234	104	
8	0	3	9	1	
<b>Total</b>	<b>19</b>	<b>1</b>	<b>87</b>	<b>243</b>	<b>105</b>
<b>Northbound</b>					
Vehicles Entering Intersection 436			Vehicles Exiting Intersection 518		
Total Vehicles On Leg			954		

# Heavy Vehicles

Date	Time	Southbound						Westbound						Northbound						Eastbound					
		U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk
05/24/2023	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00	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	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	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	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	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	6:15	0	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	6:30	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	6:45	0	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	7:00	0	3	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	7:15	0	3	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	7:30	0	4	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0
	7:45	0	2	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	8:00	0	1	2	0	0	0	0	0	4	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0
	8:15	0	0	0	1	0	0	0	0	2	3	0	0	0	0	1	0	0	0	0	0	0	3	0	0
	8:30	0	1	3	1	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
	8:45	0	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:00	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	9:30	0	1	0	0	0	0	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	9:45	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	10:00	0	1	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10:15	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10:30	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10:45	0	5	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	11:00	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	11:15	0	1	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11:30	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0
	11:45	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0





# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2361

Study Date : 06/26/2023

## Signal Warrants - Summary

### Major Street Approaches

#### Eastbound: CSAH 1

Number of Lanes : 2+

Total Approach Volume: 3,711

#### Westbound: CSAH 1

Number of Lanes :2+

Total Approach Volume: 5,868

### Minor Street Approaches

#### Northbound: 7th Ave

Number of Lanes :1

Total Approach Volume: 436

#### Southbound: 7th Ave

Number of Lanes :1

Total Approach Volume: 2,392

### Warrant Summary (Urban Values Apply)

**Warrant 1 - Eight Hour Vehicular Volumes.....Not Satisfied**

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

Required volumes reached for 7 hours, 8 are needed

**Warrant 1B - Interruption of Continuous Traffic.....Not Satisfied**

Required volumes reached for 3 hours, 8 are needed

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

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

Required 1B volumes reached for 5 hours, 8 are needed

**Warrant 2 - Four Hour Volumes.....Not Satisfied**

Number of hours (3) volumes exceed minimum < minimum required (4).

**Warrant 3 - Peak Hour.....Satisfied**

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

Number of one hour periods (28) volumes exceed minimum >= required (1). Delay data not evaluated.

**Warrant 3B - Peak Hour Volumes.....Not Satisfied**

Volumes do not exceed minimums for any 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 2361

Study Date : 06/26/2023

## 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 7 one hour periods meet minimums.  
Warrant is NOT 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 = **600**

Veh/Hr Minor = **150**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:00 - 17:00	265	+	781	=	1046	27	192	Yes
15:00 - 16:00	339	+	692	=	1031	39	180	Yes
17:00 - 18:00	271	+	605	=	876	36	151	Yes
14:00 - 15:00	306	+	491	=	797	32	188	Yes
06:45 - 07:45	366	+	331	=	697	56	213	Yes
07:45 - 08:45	296	+	312	=	608	29	191	Yes
13:00 - 14:00	226	+	381	=	607	33	205	Yes
06:30 - 07:30	341	+	253	=	594	45	220	No
18:00 - 19:00	240	+	352	=	592	28	133	No
10:00 - 11:00	245	+	337	=	582	24	140	No
12:45 - 13:45	234	+	348	=	582	33	189	No
12:15 - 13:15	258	+	322	=	580	44	148	No
18:15 - 19:15	245	+	324	=	569	29	129	No
12:30 - 13:30	231	+	335	=	566	37	158	No
09:45 - 10:45	237	+	328	=	565	25	133	No
10:15 - 11:15	219	+	340	=	559	22	150	No
09:30 - 10:30	237	+	318	=	555	29	125	No
12:00 - 13:00	245	+	308	=	553	35	143	No
11:45 - 12:45	231	+	313	=	544	31	149	No
09:15 - 10:15	225	+	318	=	543	30	125	No
10:45 - 11:45	203	+	340	=	543	26	148	No
11:30 - 12:30	233	+	309	=	542	29	150	No
10:30 - 11:30	196	+	344	=	540	24	150	No
11:15 - 12:15	209	+	325	=	534	21	147	No
06:15 - 07:15	305		221		526	36	221	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2361

Study Date : 06/26/2023

## 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

Only 3 one hour periods meet minimums.  
Warrant is NOT 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 = **900**

Veh/Hr Minor = **75**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:30 - 16:30	291	+	778	=	1069	30	193	Yes
16:30 - 17:30	280	+	726	=	1006	40	168	Yes
14:30 - 15:30	344	+	583	=	927	33	190	Yes
14:15 - 15:15	316	+	531	=	847	32	189	No
14:00 - 15:00	306	+	491	=	797	32	188	No
07:15 - 08:15	363	+	399	=	762	46	202	No
13:45 - 14:45	277	+	456	=	733	35	179	No
07:30 - 08:30	339	+	384	=	723	38	199	No
07:00 - 08:00	337	+	381	=	718	51	188	No
13:30 - 14:30	268	+	431	=	699	27	204	No
06:45 - 07:45	366	+	331	=	697	56	213	No
17:30 - 18:30	240	+	452	=	692	25	142	No
17:45 - 18:45	235	+	416	=	651	28	146	No
13:15 - 14:15	244	+	393	=	637	24	205	No
07:45 - 08:45	296	+	312	=	608	29	191	No
13:00 - 14:00	226	+	381	=	607	33	205	No
06:30 - 07:30	341	+	253	=	594	45	220	No
18:00 - 19:00	240	+	352	=	592	28	133	No
10:00 - 11:00	245	+	337	=	582	24	140	No
12:45 - 13:45	234	+	348	=	582	33	189	No
12:15 - 13:15	258	+	322	=	580	44	148	No
18:15 - 19:15	245	+	324	=	569	29	129	No
12:30 - 13:30	231	+	335	=	566	37	158	No
09:45 - 10:45	237	+	328	=	565	25	133	No
08:00 - 09:00	275		286		561	31	223	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2361

Study Date : 06/26/2023

## 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.  
Only 5 hours meet 1B minimums.  
Warrant is NOT 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 = **480 720**  
  
Veh/Hr Minor = **120 60**

Time	Major Road				Total	Minor Road		Met1A?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:15 - 16:15	306	+	765	=	1071	37	182	Yes
16:15 - 17:15	288	+	737	=	1025	31	181	Yes
14:15 - 15:15	316	+	531	=	847	32	189	Yes
17:15 - 18:15	244	+	526	=	770	31	147	Yes
07:15 - 08:15	363	+	399	=	762	46	202	Yes
13:15 - 14:15	244	+	393	=	637	24	205	Yes
12:15 - 13:15	258	+	322	=	580	44	148	Yes
18:15 - 19:15	245	+	324	=	569	29	129	Yes
10:15 - 11:15	219	+	340	=	559	22	150	Yes
09:15 - 10:15	225	+	318	=	543	30	125	Yes
11:15 - 12:15	209	+	325	=	534	21	147	Yes
06:15 - 07:15	305		221		526	36	221	Yes

Time	Major Road				Total	Minor Road		Met1B?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:45 - 16:45	286	+	761	=	1047	29	181	Yes
14:45 - 15:45	350	+	661	=	1011	34	201	Yes
16:45 - 17:45	273	+	665	=	938	36	165	Yes
07:15 - 08:15	363	+	399	=	762	46	202	Yes
13:45 - 14:45	277	+	456	=	733	35	179	Yes
07:00 - 08:00	337	+	381	=	718	51	188	No
13:30 - 14:30	268	+	431	=	699	27	204	No
06:45 - 07:45	366	+	331	=	697	56	213	No
17:45 - 18:45	235	+	416	=	651	28	146	No
13:15 - 14:15	244	+	393	=	637	24	205	No
13:00 - 14:00	226	+	381	=	607	33	205	No
06:30 - 07:30	341		253		594	45	220	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2361

Study Date : 06/26/2023

## 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.

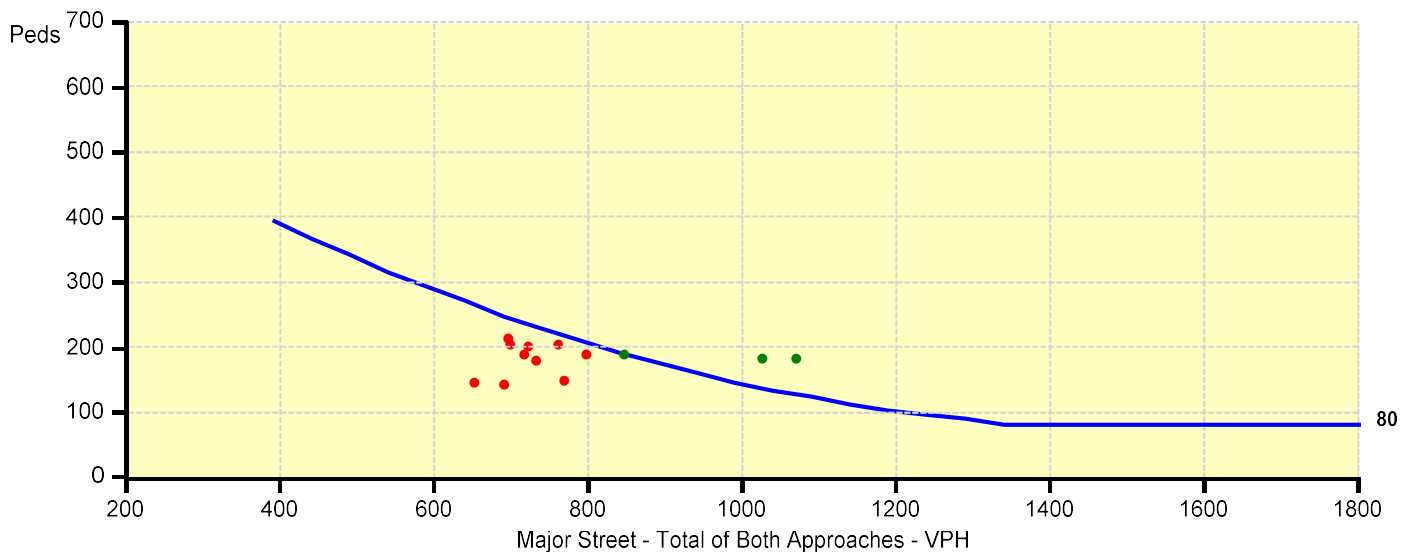
#### Summary

Only 3 one hour periods meet minimums.  
Warrant is NOT met.

#### Site Data Required

Rural Settings Apply = **False**  
 Number of Major Lanes = **2 or more**  
 Number of Minor Lanes = **1**

Time	Major Road CSAH 1				Total	Minor Road 7th Ave		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:15 - 16:15	306	+	765	=	1071	37	182	Yes
16:15 - 17:15	288	+	737	=	1025	31	181	Yes
14:15 - 15:15	316	+	531	=	847	32	189	Yes
14:00 - 15:00	306	+	491	=	797	32	188	No
17:15 - 18:15	244	+	526	=	770	31	147	No
07:15 - 08:15	363	+	399	=	762	46	202	No
13:45 - 14:45	277	+	456	=	733	35	179	No
07:30 - 08:30	339	+	384	=	723	38	199	No
07:00 - 08:00	337	+	381	=	718	51	188	No
13:30 - 14:30	268	+	431	=	699	27	204	No
06:45 - 07:45	366	+	331	=	697	56	213	No
17:30 - 18:30	240	+	452	=	692	25	142	No



# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2361

Study Date : 06/26/2023

## 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

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

### Site Data Required

Rural Settings Apply = **False**  
 Number of Major Lanes = **2 or more**  
 Number of Minor Lanes = **1**

Time	Major Road CSAH 1				Total	Minor Road 7th Ave		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:15 - 16:15	306	+	765	=	1071	37	182	No
15:30 - 16:30	291	+	778	=	1069	30	193	No
15:45 - 16:45	286	+	761	=	1047	29	181	No
16:00 - 17:00	265	+	781	=	1046	27	192	No
15:00 - 16:00	339	+	692	=	1031	39	180	No
16:15 - 17:15	288	+	737	=	1025	31	181	No
14:45 - 15:45	350	+	661	=	1011	34	201	No
16:30 - 17:30	280	+	726	=	1006	40	168	No
16:45 - 17:45	273	+	665	=	938	36	165	No
14:30 - 15:30	344	+	583	=	927	33	190	No
17:00 - 18:00	271	+	605	=	876	36	151	No
14:15 - 15:15	316	+	531	=	847	32	189	No

