

Date : 06/21/23

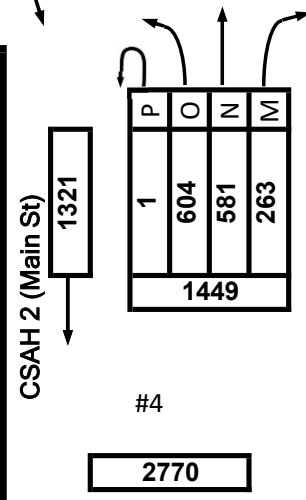
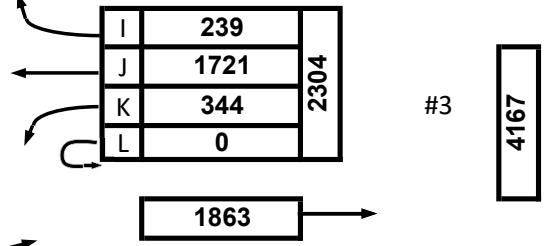
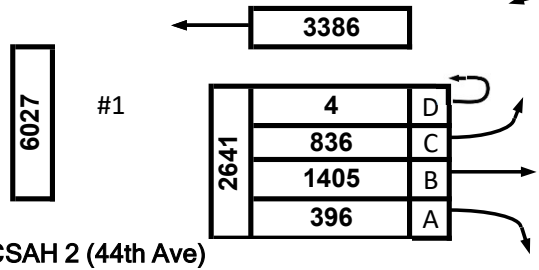
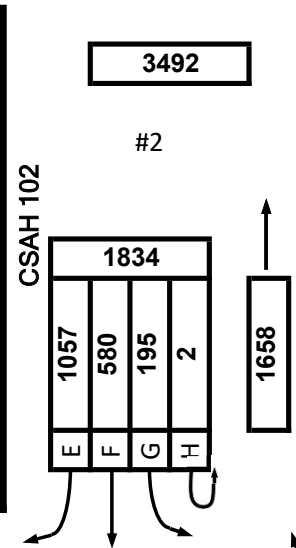
Count Number : TMC 2373

Location : CSAH 2 (44th Ave)  
@ CSAH 2 (Main St) & CSAH

Collection Period : 24 HR



North



CSAH 2 (44th Ave)

44th Ave

CSAH 2 (Main St)

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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

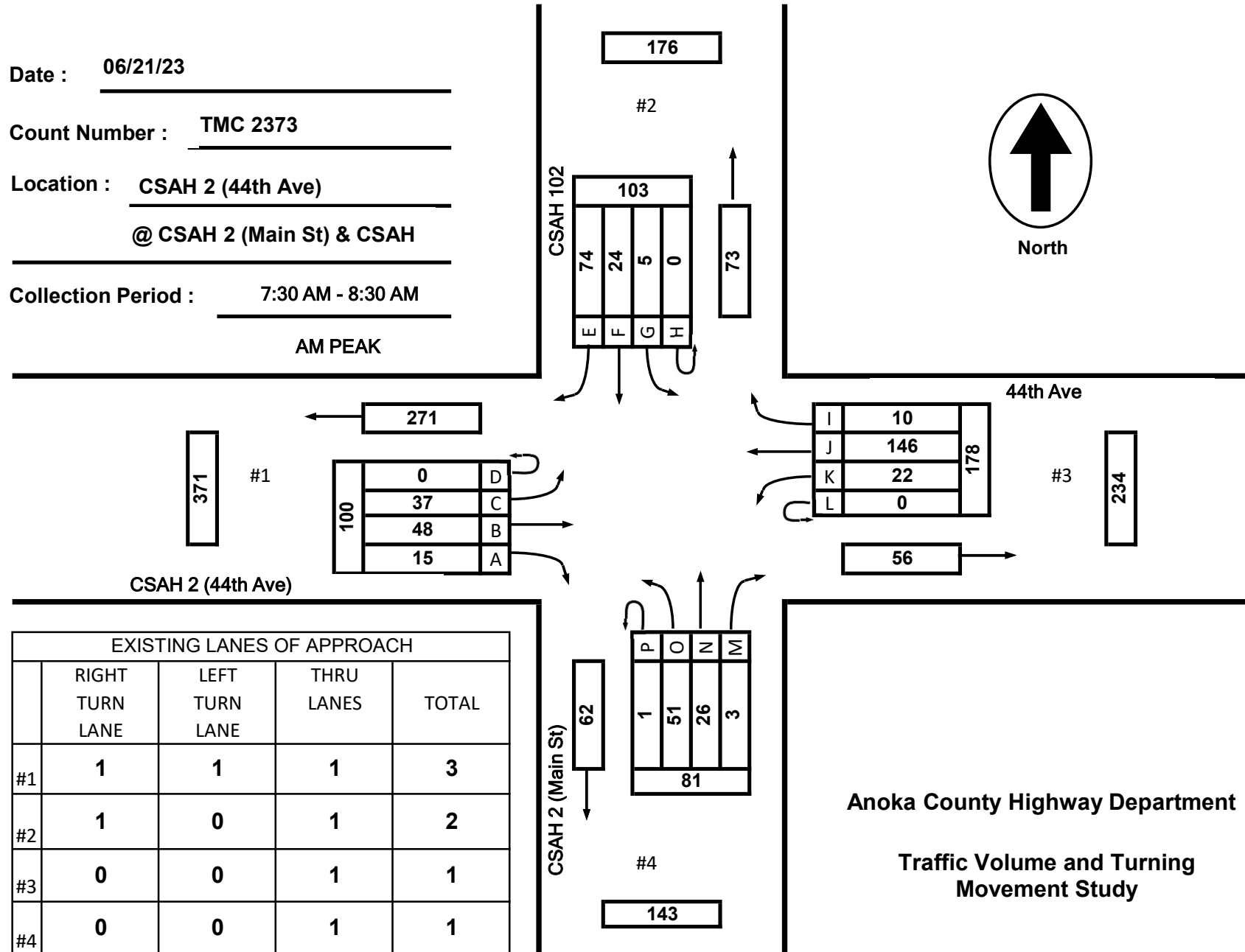
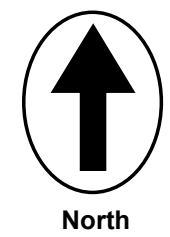
Date : 06/21/23

Count Number : TMC 2373

Location : CSAH 2 (44th Ave)  
@ CSAH 2 (Main St) & CSAH

Collection Period : 7:30 AM - 8:30 AM

AM PEAK



CSAH 2 (44th Ave)

44th Ave

CSAH 2 (Main St)

EXISTING LANES OF APPROACH

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

Anoka County Highway Department

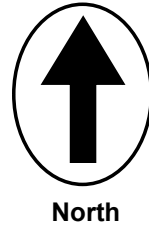
Traffic Volume and Turning Movement Study

Date : 06/21/23

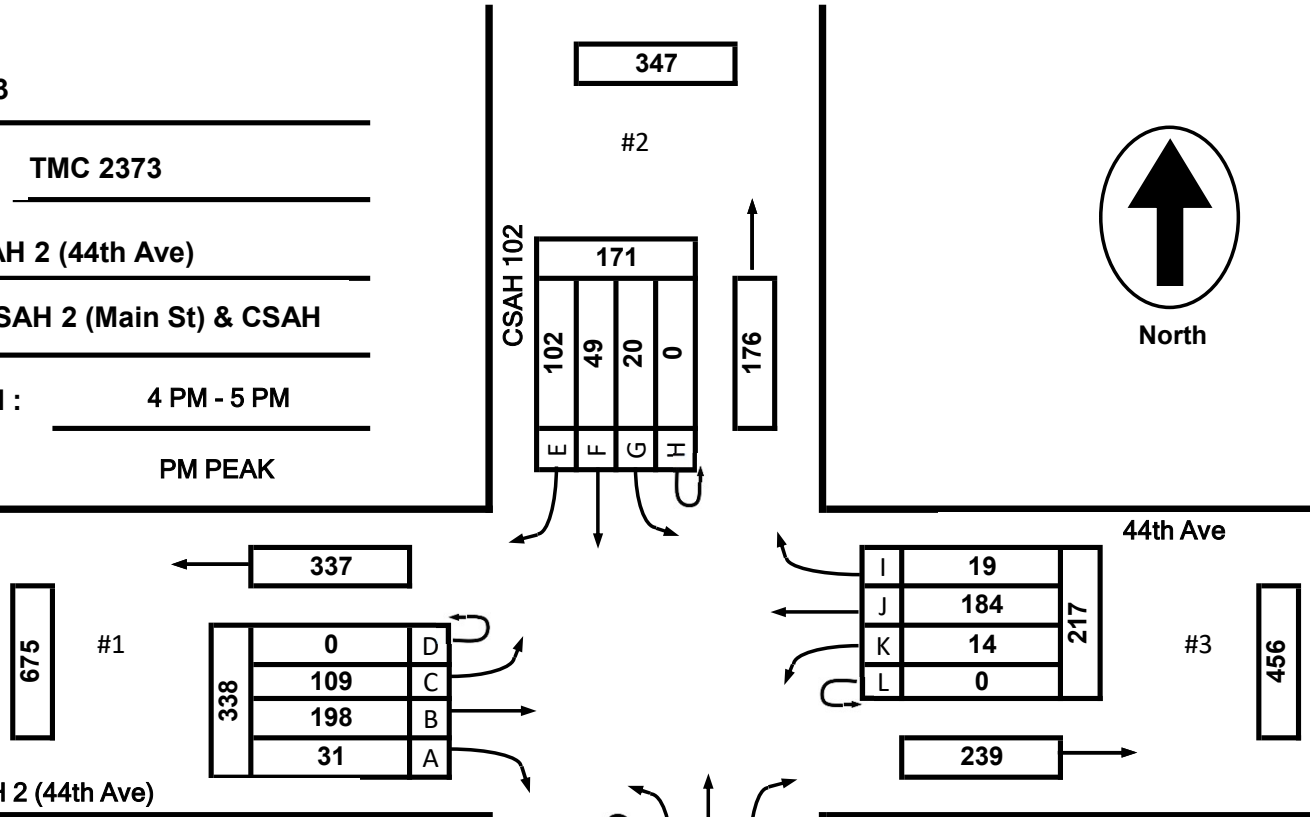
Count Number : TMC 2373

Location : CSAH 2 (44th Ave)  
@ CSAH 2 (Main St) & CSAH

Collection Period : 4 PM - 5 PM  
**PM PEAK**



North



CSAH 2 (44th Ave)

44th Ave

CSAH 2 (Main St)

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

Anoka County Highway Department  
 Traffic Volume and Turning Movement Study

TMC 2373 - CSAH 2 (44th Ave) @ CSAH 2 (Main St) & CSAH 102 (Main St)

0 0

Wednesday, June 21, 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	1	2	2	0	5	0	0	3	3	0	6	0	0	1	0	0	1	0	2	3	1	0	6	18
12:15 AM	0	3	2	1	0	6	0	0	4	0	0	4	0	0	2	0	0	2	0	2	2	0	0	4	16
12:30 AM	0	0	1	0	0	1	0	0	5	0	0	5	0	0	0	0	0	0	0	0	4	0	0	4	10
12:45 AM	0	0	4	1	0	5	0	1	0	1	0	2	0	2	0	0	0	2	0	1	2	0	0	3	12
Hourly Total	0	4	9	4	0	17	0	1	12	4	0	17	0	2	3	0	0	5	0	5	11	1	0	17	56
1:00 AM	0	0	1	1	0	2	0	1	1	0	0	2	0	1	0	1	0	2	0	1	4	1	0	6	12
1:15 AM	0	1	1	1	0	3	0	0	1	1	0	2	0	1	1	0	0	2	1	1	2	0	0	4	11
1:30 AM	0	1	3	0	0	4	0	1	1	0	0	2	0	1	3	1	0	5	0	1	3	0	0	4	15
1:45 AM	0	0	0	1	0	1	0	1	0	0	0	1	0	1	1	0	0	2	0	0	0	1	0	1	5
Hourly Total	0	2	5	3	0	10	0	3	3	1	0	7	0	4	5	2	0	11	1	3	9	2	0	15	43
2:00 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	0	0	1	0	0	2	1	0	3	7
2:15 AM	0	0	1	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	0	0	1	4
2:30 AM	0	0	1	0	0	1	0	2	0	0	0	2	0	1	1	0	0	2	0	0	1	1	0	2	7
2:45 AM	0	1	0	1	0	2	0	1	0	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2	6
Hourly Total	0	1	2	1	0	4	0	3	5	0	0	8	0	2	2	0	0	4	1	0	5	2	0	8	24
3:00 AM	0	0	1	1	0	2	0	0	1	0	0	1	0	0	0	1	0	1	0	0	1	0	0	1	5
3:15 AM	0	0	0	1	0	1	0	1	1	0	0	2	0	0	2	0	0	2	0	3	0	0	0	3	8
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
3:45 AM	0	0	0	2	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	1	5	1	0	7	10
Hourly Total	0	0	1	4	0	5	0	2	2	0	0	4	0	1	2	1	0	4	0	4	6	1	0	11	24
4:00 AM	0	0	0	1	0	1	0	2	0	2	0	4	0	1	0	0	0	1	0	1	3	1	0	5	11
4:15 AM	0	0	1	0	0	1	0	3	4	0	0	7	0	1	0	1	0	2	0	0	3	0	0	3	13
4:30 AM	0	0	2	4	0	6	0	5	4	1	0	10	0	2	2	0	0	4	0	1	2	2	0	5	25
4:45 AM	0	0	1	2	0	3	0	5	4	2	0	11	0	3	4	1	0	8	0	4	1	2	0	7	29
Hourly Total	0	0	4	7	0	11	0	15	12	5	0	32	0	7	6	2	0	15	0	6	9	5	0	20	78
5:00 AM	0	1	3	2	0	6	0	5	6	1	0	12	0	0	1	1	0	2	0	2	1	1	0	4	24
5:15 AM	0	0	1	7	0	8	0	3	8	1	0	12	0	1	2	0	0	3	0	2	1	1	1	4	27
5:30 AM	0	0	4	6	0	10	0	7	19	2	0	28	0	4	0	0	0	4	0	2	3	0	0	5	47
5:45 AM	0	2	2	8	0	12	0	10	15	2	0	27	0	6	1	3	0	10	0	7	4	3	0	14	63
Hourly Total	0	3	10	23	0	36	0	25	48	6	0	79	0	11	4	4	0	19	0	13	9	5	1	27	161
6:00 AM	0	1	4	5	0	10	0	9	9	2	0	20	0	6	4	3	0	13	0	4	5	7	1	16	59
6:15 AM	0	0	7	6	0	13	0	16	20	3	0	39	0	7	2	4	0	13	0	4	7	7	0	18	83
6:30 AM	0	1	12	15	0	28	0	18	17	2	0	37	0	9	3	1	0	13	0	4	12	8	0	24	102
6:45 AM	0	1	5	12	0	18	0	18	33	1	0	52	0	8	8	1	0	17	0	7	9	5	0	21	108
Hourly Total	0	3	28	38	0	69	0	61	79	8	0	148	0	30	17	9	0	56	0	19	33	27	1	79	352
7:00 AM	0	4	9	9	0	22	0	3	22	1	0	26	0	20	18	13	0	51	0	7	11	3	0	21	120
7:15 AM	0	4	5	16	0	25	0	10	25	1	0	36	0	5	6	2	0	13	0	8	7	2	0	17	91
7:30 AM	0	2	7	20	0	29	0	8	44	0	0	52	0	16	8	0	0	24	0	7	11	2	0	20	125
7:45 AM	0	1	8	12	0	21	0	4	39	3	0	46	0	4	5	0	0	9	0	13	12	4	1	29	105
Hourly Total	0	11	29	57	0	97	0	25	130	5	0	160	0	45	37	15	0	97	0	35	41	11	1	87	441

TMC 2373 - CSAH 2 (44th Ave) @ CSAH 2 (Main St) & CSAH 102 (Main St)

0 0

Wednesday, June 21, 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	0	3	22	0	25	0	5	40	3	0	48	0	18	4	1	0	23	0	8	17	4	0	29	0	125
8:15 AM	0	2	6	20	0	28	0	5	23	4	0	32	1	13	9	2	0	25	0	9	8	5	1	22	0	107
8:30 AM	0	3	9	21	0	33	0	1	23	6	1	30	0	4	9	3	0	16	0	4	9	6	0	19	0	98
8:45 AM	0	0	7	14	0	21	0	1	20	1	0	22	0	7	7	1	1	15	0	6	12	4	0	22	0	80
Hourly Total	0	5	25	77	0	107	0	12	106	14	1	132	1	42	29	7	1	79	0	27	46	19	1	92	0	410
9:00 AM	0	2	6	18	0	26	0	2	17	1	0	20	0	9	6	3	0	18	0	4	16	1	0	21	0	85
9:15 AM	1	3	4	15	0	23	0	0	21	4	0	25	0	4	6	1	0	11	0	5	11	2	0	18	0	77
9:30 AM	0	0	5	10	0	15	0	4	12	2	0	18	0	6	6	1	0	13	0	12	8	3	0	23	0	69
9:45 AM	0	1	6	7	0	14	0	1	12	8	0	21	0	7	10	4	0	21	0	7	9	4	0	20	0	76
Hourly Total	1	6	21	50	0	78	0	7	62	15	0	84	0	26	28	9	0	63	0	28	44	10	0	82	0	307
10:00 AM	0	6	10	9	0	25	0	3	4	5	0	12	0	4	6	4	0	14	0	9	11	3	0	23	0	74
10:15 AM	0	3	10	8	0	21	0	1	11	6	2	18	0	4	6	3	0	13	0	12	14	4	0	30	0	82
10:30 AM	0	3	9	13	0	25	0	4	17	2	0	23	0	7	6	2	0	15	0	11	10	1	0	22	0	85
10:45 AM	0	3	12	14	0	29	0	4	18	3	0	25	0	7	6	4	2	17	0	7	11	5	0	23	0	94
Hourly Total	0	15	41	44	0	100	0	12	50	16	2	78	0	22	24	13	2	59	0	39	46	13	0	98	0	335
11:00 AM	0	5	12	9	0	26	0	6	9	7	0	22	0	5	11	4	0	20	0	5	18	5	0	28	0	96
11:15 AM	0	4	9	14	0	27	0	2	19	3	0	24	0	10	9	2	0	21	0	8	17	4	0	29	0	101
11:30 AM	0	2	15	10	0	27	0	4	18	4	0	26	0	6	9	1	0	16	0	11	15	9	0	35	0	104
11:45 AM	0	4	9	25	0	38	0	4	15	4	0	23	0	7	13	5	0	25	0	21	12	9	0	42	0	128
Hourly Total	0	15	45	58	0	118	0	16	61	18	0	95	0	28	42	12	0	82	0	45	62	27	0	134	0	429
12:00 PM	0	4	3	16	0	23	0	2	17	6	0	25	0	2	10	0	1	12	0	11	20	6	0	37	0	97
12:15 PM	0	5	6	16	0	27	0	6	19	4	0	29	0	10	9	3	0	22	0	15	15	10	0	40	0	118
12:30 PM	0	1	11	13	0	25	0	6	23	2	1	31	0	12	9	1	1	22	0	11	15	5	1	31	0	109
12:45 PM	0	2	7	13	0	22	0	4	19	4	0	27	0	11	8	3	0	22	0	15	25	6	0	46	0	117
Hourly Total	0	12	27	58	0	97	0	18	78	16	1	112	0	35	36	7	2	78	0	52	75	27	1	154	0	441
1:00 PM	0	3	2	20	0	25	0	6	21	2	0	29	0	4	9	7	0	20	0	7	14	3	0	24	0	98
1:15 PM	0	2	5	15	0	22	0	3	20	3	0	26	0	4	8	2	0	14	0	17	16	5	0	38	0	100
1:30 PM	0	2	9	16	0	27	0	2	20	1	0	23	0	9	8	7	0	24	0	7	23	4	0	34	0	108
1:45 PM	0	10	9	16	0	35	0	3	37	6	0	46	0	17	9	9	0	35	0	19	13	2	0	34	0	150
Hourly Total	0	17	25	67	0	109	0	14	98	12	0	124	0	34	34	25	0	93	0	50	66	14	0	130	0	456
2:00 PM	0	1	14	24	0	39	0	6	19	2	0	27	0	10	10	5	0	25	0	14	24	6	2	44	0	135
2:15 PM	0	3	11	25	0	39	0	6	24	7	0	37	0	9	3	4	0	16	0	18	25	10	0	53	0	145
2:30 PM	0	2	13	30	0	45	0	11	34	2	0	47	0	13	9	6	0	28	0	14	26	11	0	51	0	171
2:45 PM	0	7	17	16	0	40	0	7	30	2	0	39	0	9	19	11	0	39	0	15	24	10	0	49	0	167
Hourly Total	0	13	55	95	0	163	0	30	107	13	0	150	0	41	41	26	0	108	0	61	99	37	2	197	0	618
3:00 PM	0	3	7	20	0	30	0	2	29	8	0	39	0	28	34	15	0	77	0	18	21	6	0	45	0	191
3:15 PM	0	5	15	19	0	39	0	1	30	9	0	40	0	8	11	8	0	27	0	16	38	4	2	58	0	164
3:30 PM	0	5	12	27	0	44	0	2	35	7	0	44	0	15	12	5	0	32	0	20	41	9	3	70	0	190
3:45 PM	0	6	10	18	0	34	0	4	35	6	0	45	0	8	11	6	0	25	0	24	41	9	0	74	0	178
Hourly Total	0	19	44	84	0	147	0	9	129	30	0	168	0	59	68	34	0	161	0	78	141	28	5	247	0	723

TMC 2373 - CSAH 2 (44th Ave) @ CSAH 2 (Main St) & CSAH 102 (Main St)

0 0

Wednesday, June 21, 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	4	17	26	0	47	0	6	51	4	0	61	0	13	13	5	0	31	0	32	44	9	0	85	224
4:15 PM	0	7	11	22	0	40	0	0	36	4	0	40	0	18	13	8	0	39	0	25	54	10	0	89	208
4:30 PM	0	5	12	29	0	46	0	3	47	3	0	53	0	10	14	7	0	31	0	38	46	6	0	90	220
4:45 PM	0	4	9	25	0	38	0	5	50	8	0	63	0	10	8	1	0	19	0	14	54	6	0	74	194
Hourly Total	0	20	49	102	0	171	0	14	184	19	0	217	0	51	48	21	0	120	0	109	198	31	0	338	846
5:00 PM	0	6	8	23	0	37	0	4	34	5	0	43	0	15	10	1	0	26	0	19	48	10	0	77	183
5:15 PM	0	1	11	23	0	35	0	1	56	6	1	63	0	13	7	5	0	25	0	30	39	6	0	75	198
5:30 PM	0	1	9	17	0	27	0	2	54	2	0	58	0	16	8	2	0	26	0	23	42	11	0	76	187
5:45 PM	0	3	6	20	0	29	0	1	50	2	0	53	0	13	12	4	0	29	0	24	29	11	1	64	175
Hourly Total	0	11	34	83	0	128	0	8	194	15	1	217	0	57	37	12	0	106	0	96	158	38	1	292	743
6:00 PM	0	3	6	21	0	30	0	1	38	4	0	43	0	9	11	5	0	25	1	21	36	11	0	69	167
6:15 PM	0	0	7	20	0	27	0	4	50	1	0	55	0	7	9	1	0	17	0	11	25	8	0	44	143
6:30 PM	0	4	5	10	0	19	0	1	32	5	0	38	0	8	4	4	0	16	0	13	36	2	0	51	124
6:45 PM	0	1	8	12	0	21	0	2	17	3	0	22	0	7	9	6	0	22	0	10	18	4	0	32	97
Hourly Total	0	8	26	63	0	97	0	8	137	13	0	158	0	31	33	16	0	80	1	55	115	25	0	196	531
7:00 PM	0	2	5	15	0	22	0	2	20	1	0	23	0	6	4	2	0	12	0	9	17	5	0	31	88
7:15 PM	0	1	9	7	0	17	0	1	14	3	0	18	0	2	5	1	0	8	0	7	13	5	1	25	68
7:30 PM	0	3	7	17	0	27	0	3	17	3	0	23	0	6	2	5	0	13	0	10	10	1	2	21	84
7:45 PM	0	3	4	8	0	15	0	2	14	1	0	17	0	1	7	0	0	8	0	6	16	4	0	26	66
Hourly Total	0	9	25	47	0	81	0	8	65	8	0	81	0	15	18	8	0	41	0	32	56	15	3	103	306
8:00 PM	0	3	4	13	0	20	0	0	17	2	0	19	0	7	7	4	0	18	0	4	10	5	3	19	76
8:15 PM	0	2	8	11	0	21	0	4	17	1	0	22	0	5	5	2	0	12	0	10	14	2	0	26	81
8:30 PM	0	0	12	11	0	23	0	2	15	2	0	19	0	3	6	1	0	10	0	7	19	3	0	29	81
8:45 PM	1	1	6	6	0	14	0	2	14	2	0	18	0	5	4	0	0	9	1	3	10	1	0	15	56
Hourly Total	1	6	30	41	0	78	0	8	63	7	0	78	0	20	22	7	0	49	1	24	53	11	3	89	294
9:00 PM	0	0	5	9	0	14	0	3	13	3	0	19	0	5	2	3	1	10	0	8	14	2	0	24	67
9:15 PM	0	5	4	10	0	19	0	3	7	1	0	11	0	1	7	2	0	10	0	7	18	7	0	32	72
9:30 PM	0	0	5	12	0	17	0	2	15	1	0	18	0	4	4	1	0	9	0	6	10	3	0	19	63
9:45 PM	0	3	7	5	0	15	0	6	10	4	0	20	0	5	3	1	0	9	0	5	15	6	0	26	70
Hourly Total	0	8	21	36	0	65	0	14	45	9	0	68	0	15	16	7	1	38	0	26	57	18	0	101	272
10:00 PM	0	2	10	3	0	15	0	5	10	1	0	16	0	2	1	4	0	7	0	7	19	4	0	30	68
10:15 PM	0	2	2	2	0	6	0	5	7	2	0	14	0	1	2	1	0	4	0	4	10	4	0	18	42
10:30 PM	0	0	7	2	0	9	0	9	8	0	0	17	0	6	3	0	0	9	0	3	13	5	0	21	56
10:45 PM	0	1	2	5	0	8	0	6	12	0	0	18	0	4	4	2	0	10	0	2	7	8	0	17	53
Hourly Total	0	5	21	12	0	38	0	25	37	3	0	65	0	13	10	7	0	30	0	16	49	21	0	86	219
11:00 PM	0	1	1	2	0	4	0	3	4	0	0	7	0	9	16	14	0	39	0	7	7	7	0	21	71
11:15 PM	0	0	2	1	0	3	0	3	3	1	0	7	0	2	2	0	0	4	0	0	4	0	0	4	18
11:30 PM	0	1	0	0	0	1	0	0	5	0	0	5	0	2	1	4	0	7	0	3	4	1	0	8	21
11:45 PM	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	1	0	1	0	3	2	0	0	5	9
Hourly Total	0	2	3	3	0	8	0	6	14	2	0	22	0	13	19	19	0	51	0	13	17	8	0	38	119
<b>DAILY TOTAL</b>	<b>2</b>	<b>195</b>	<b>580</b>	<b>1057</b>	<b>0</b>	<b>1834</b>	<b>0</b>	<b>344</b>	<b>1721</b>	<b>239</b>	<b>5</b>	<b>2304</b>	<b>1</b>	<b>604</b>	<b>581</b>	<b>263</b>	<b>6</b>	<b>1449</b>	<b>4</b>	<b>836</b>	<b>1405</b>	<b>396</b>	<b>19</b>	<b>2641</b>	<b>8228</b>
<b>Cars</b>	2	189	564	997	0	1752	0	330	1688	230	5	2248	1	578	573	252	6	1404	4	806	1377	379	11	2566	7970
<b>Heavy Vehicles</b>	0	6	16	60	0	82	0	14	33	9	0	56	0	26	8	11	0	45	0	30	28	17	8	75	258
<b>Heavy Vehicle %</b>	0.00%	3.08%	2.76%	5.68%	0.00%	4.47%	0.00%	4.07%	1.92%	3.77%	0.00%	2.43%	0.00%	4.30%	1.38%	4.18%	0.00%	3.11%	0.00%	3.59%	1.99%	4.29%	42.11%	2.84%	3.14%

TMC 2373 - CSAH 2 (44th Ave) @ CSAH 2 (Main St) & CSAH 102 (Main St)

0 0

Wednesday, June 21, 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							
7:30 AM	0	2	7	20	0	29	0	8	44	0	0	52	0	16	8	0	0	24	0	7	11	2	0	20	0	13	12	4	1	29	125
7:45 AM	0	1	8	12	0	21	0	4	39	3	0	46	0	4	5	0	0	9	0	13	12	4	1	29	0	13	12	4	1	29	105
8:00 AM	0	0	3	22	0	25	0	5	40	3	0	48	0	18	4	1	0	23	0	8	17	4	0	29	0	8	17	4	0	29	125
8:15 AM	0	2	6	20	0	28	0	5	23	4	0	32	1	13	9	2	0	25	0	9	8	5	1	22	0	9	8	5	1	22	107
Peak Hour Total	0	5	24	74	0	103	0	22	146	10	0	178	1	51	26	3	0	81	0	37	48	15	2	100	0	37	48	15	2	100	462
PHF	0.000	0.625	0.750	0.841	0.000	0.888	0.000	0.688	0.830	0.625	0.000	0.856	0.250	0.708	0.722	0.375	0.000	0.810	0.000	0.712	0.706	0.750	0.500	0.862	0.000	0.712	0.706	0.750	0.500	0.862	0.924

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	17	26	0	47	0	6	51	4	0	61	0	13	13	5	0	31	0	32	44	9	0	85	0	32	44	9	0	85	224
4:15 PM	0	7	11	22	0	40	0	0	36	4	0	40	0	18	13	8	0	39	0	25	54	10	0	89	0	25	54	10	0	89	208
4:30 PM	0	5	12	29	0	46	0	3	47	3	0	53	0	10	14	7	0	31	0	38	46	6	0	90	0	38	46	6	0	90	220
4:45 PM	0	4	9	25	0	38	0	5	50	8	0	63	0	10	8	1	0	19	0	14	54	6	0	74	0	14	54	6	0	74	194
Peak Hour Total	0	20	49	102	0	171	0	14	184	19	0	217	0	51	48	21	0	120	0	109	198	31	0	338	0	109	198	31	0	338	846
PHF	0.000	0.714	0.721	0.879	0.000	0.910	0.000	0.583	0.902	0.594	0.000	0.861	0.000	0.708	0.857	0.656	0.000	0.769	0.000	0.717	0.917	0.775	0.000	0.939	0.000	0.717	0.917	0.775	0.000	0.939	0.944

Total Vehicles On Leg		3492			
Vehicles Entering Intersection		1834	Vehicles Exiting Intersection		1658
<b>Southbound</b>					
Cars	997	564	189	2	0
Heavy	60	16	6	0	0
<b>Total</b>	<b>1057</b>	<b>580</b>	<b>195</b>	<b>2</b>	<b>0</b>



Total Vehicles on Leg 6027	Vehicles Entering Intersection 2641	Eastbound	Cars	Heavy	Total	
			11	8	19	
			4	0	4	
	806		30	836		
	Vehicles Exiting Intersection 3386		1377	28	1405	
379	17	396				

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 2304	Total Vehicles on Leg 4167
230	9	239			
1688	33	1721			
330	14	344			
0	0	0			
5	0	5	Vehicles Exiting Intersection 1863		



Cars	6	1	578	573	252
Heavy	0	0	26	8	11
<b>Total</b>	<b>6</b>	<b>1</b>	<b>604</b>	<b>581</b>	<b>263</b>
<b>Northbound</b>					
Vehicles Entering Intersection			Vehicles Exiting Intersection		
1449			1321		
Total Vehicles On Leg			2770		

# 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
06/21/2023	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	1	0	0	0	0	0	1	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	1	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	1	0	0	0	0	0	0	0	0	0	0	0	1	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45	0	0	1	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	5:00	0	0	0	0	0	0	0	0	1	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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0
	6:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
	6:30	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	6:45	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
	7:15	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	7:30	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	7:45	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	8:00	0	0	0	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0
	8:15	0	0	3	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	8:30	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0
	8:45	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
	9:00	0	0	0	3	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
	9:15	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
	9:30	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45	0	0	1	2	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0
	10:00	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0
	10:15	0	0	0	2	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0
	10:30	0	0	2	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
	10:45	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0
	11:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	11:15	0	0	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	11:30	0	0	0	2	0	0	0	0	2	1	0	0	0	2	0	0	0	0	0	0	0	2	0	0
	11:45	0	0	0	2	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	2	1	0	0





# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2373

Study Date : 06/26/2023

## Signal Warrants - Summary

### Major Street Approaches

Eastbound: CSAH 2 (44th Ave)

Number of Lanes : 1

Total Approach Volume: 2,641

Westbound: 44th Ave

Number of Lanes : 1

Total Approach Volume: 2,304

### Minor Street Approaches

Northbound: CSAH 2 (Main St)

Number of Lanes : 1

Total Approach Volume: 1,449

Southbound: CSAH 102 (Main St)

Number of Lanes : 1

Total Approach Volume: 1,834

### Warrant Summary (Urban Values Apply)

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

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

Required volumes reached for 2 hours, 8 are needed

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

Required volumes reached for 0 hours, 8 are needed

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

Required 1A volumes reached for 3 hours, 8 are needed

Required 1B volumes reached for 0 hours, 8 are needed

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

Number of hours (0) volumes exceed minimum < minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (4) 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 2373

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 2 one hour periods meet minimums.  
Warrant is NOT met.

#### Site Data Required

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

#### Volume Requirements

Veh/Hr Major = **500**

Veh/Hr Minor = **150**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	<b>CSAH 2 (44th Ave)</b>					<b>CSAH 2 (Main St)</b>		
16:30 - 17:30	316	+	222	=	538	101	156	Yes
15:30 - 16:30	318	+	190	=	508	127	165	Yes
15:15 - 16:15	287	+	190	=	477	115	164	No
17:30 - 18:30	253	+	209	=	462	97	113	No
17:45 - 18:45	228	+	189	=	417	87	105	No
15:00 - 16:00	247	+	168	=	415	161	147	No
14:45 - 15:45	222	+	162	=	384	175	153	No
14:30 - 15:30	203	+	165	=	368	171	154	No
14:15 - 15:15	198	+	162	=	360	160	154	No
18:00 - 19:00	196	+	158	=	354	80	97	No
14:00 - 15:00	197	+	150	=	347	108	163	No
13:45 - 14:45	182	+	157	=	339	104	158	No
13:30 - 14:30	165	+	133	=	298	100	140	No
18:15 - 19:15	158	+	138	=	296	67	89	No
07:30 - 08:30	100	+	178	=	278	81	103	No
07:15 - 08:15	95	+	182	=	277	69	100	No
13:15 - 14:15	150	+	122	=	272	98	123	No
12:00 - 13:00	154	+	112	=	266	78	97	No
11:45 - 12:45	150	+	108	=	258	81	113	No
11:30 - 12:30	154	+	103	=	257	75	115	No
12:15 - 13:15	141	+	116	=	257	86	99	No
07:45 - 08:45	99	+	156	=	255	73	107	No
13:00 - 14:00	130	+	124	=	254	93	109	No
12:30 - 13:30	139	+	113	=	252	78	94	No
12:45 - 13:45	142		105		247	80	96	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2373

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

#### Site Data Required

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

#### Volume Requirements

Veh/Hr Major = **750**

Veh/Hr Minor = **75**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	<b>CSAH 2 (44th Ave)</b>					<b>CSAH 2 (Main St)</b>		
16:00 - 17:00	338	+	217	=	555	120	171	No
16:30 - 17:30	316	+	222	=	538	101	156	No
15:45 - 16:45	338	+	199	=	537	126	167	No
16:15 - 17:15	330	+	199	=	529	115	161	No
16:45 - 17:45	302	+	227	=	529	96	137	No
17:00 - 18:00	292	+	217	=	509	106	128	No
15:30 - 16:30	318	+	190	=	508	127	165	No
17:15 - 18:15	284	+	217	=	501	105	121	No
15:15 - 16:15	287	+	190	=	477	115	164	No
17:30 - 18:30	253	+	209	=	462	97	113	No
17:45 - 18:45	228	+	189	=	417	87	105	No
15:00 - 16:00	247	+	168	=	415	161	147	No
14:45 - 15:45	222	+	162	=	384	175	153	No
14:30 - 15:30	203	+	165	=	368	171	154	No
14:15 - 15:15	198	+	162	=	360	160	154	No
18:00 - 19:00	196	+	158	=	354	80	97	No
14:00 - 15:00	197	+	150	=	347	108	163	No
13:45 - 14:45	182	+	157	=	339	104	158	No
13:30 - 14:30	165	+	133	=	298	100	140	No
18:15 - 19:15	158	+	138	=	296	67	89	No
07:30 - 08:30	100	+	178	=	278	81	103	No
07:15 - 08:15	95	+	182	=	277	69	100	No
13:15 - 14:15	150	+	122	=	272	98	123	No
12:00 - 13:00	154	+	112	=	266	78	97	No
11:45 - 12:45	150		108		258	81	113	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2373

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

Only 3 hours meet 1A minimums.  
Only 0 hours meet 1B minimums.  
Warrant is NOT met.

#### Site Data Required

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

#### Volume Requirements

Warrant 1A 1B  
Veh/Hr Major = **400 600**  
  
Veh/Hr Minor = **120 60**

#### Major Road CSAH 2 (44th Ave)

#### Minor Road CSAH 2 (Main St)

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
16:00 - 17:00	338	+	217	=	555	120	171	Yes
17:00 - 18:00	292	+	217	=	509	106	128	Yes
15:00 - 16:00	247	+	168	=	415	161	147	Yes
14:45 - 15:45	222	+	162	=	384	175	153	No
14:30 - 15:30	203	+	165	=	368	171	154	No
14:15 - 15:15	198	+	162	=	360	160	154	No
18:00 - 19:00	196	+	158	=	354	80	97	No
14:00 - 15:00	197	+	150	=	347	108	163	No
13:45 - 14:45	182	+	157	=	339	104	158	No
13:30 - 14:30	165	+	133	=	298	100	140	No
18:15 - 19:15	158	+	138	=	296	67	89	No
07:30 - 08:30	100		178		278	81	103	No

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:00 - 17:00	338	+	217	=	555	120	171	No
16:30 - 17:30	316	+	222	=	538	101	156	No
15:45 - 16:45	338	+	199	=	537	126	167	No
16:15 - 17:15	330	+	199	=	529	115	161	No
16:45 - 17:45	302	+	227	=	529	96	137	No
17:00 - 18:00	292	+	217	=	509	106	128	No
15:30 - 16:30	318	+	190	=	508	127	165	No
17:15 - 18:15	284	+	217	=	501	105	121	No
15:15 - 16:15	287	+	190	=	477	115	164	No
17:30 - 18:30	253	+	209	=	462	97	113	No
17:45 - 18:45	228	+	189	=	417	87	105	No
15:00 - 16:00	247		168		415	161	147	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2373

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.

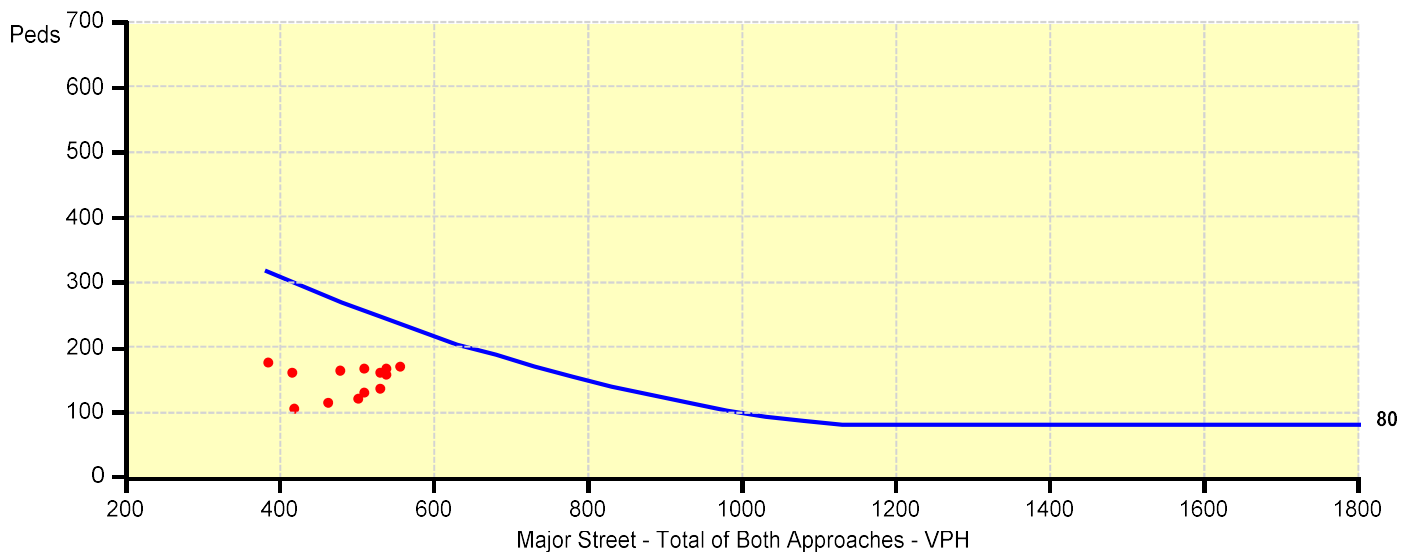
#### Summary

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

#### Site Data Required

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

Time	Major Road CSAH 2 (44th Ave)				Total	Minor Road CSAH 2 (Main St)		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:00 - 17:00	338	+	217	=	555	120	171	No
16:30 - 17:30	316	+	222	=	538	101	156	No
15:45 - 16:45	338	+	199	=	537	126	167	No
16:15 - 17:15	330	+	199	=	529	115	161	No
16:45 - 17:45	302	+	227	=	529	96	137	No
17:00 - 18:00	292	+	217	=	509	106	128	No
15:30 - 16:30	318	+	190	=	508	127	165	No
17:15 - 18:15	284	+	217	=	501	105	121	No
15:15 - 16:15	287	+	190	=	477	115	164	No
17:30 - 18:30	253	+	209	=	462	97	113	No
17:45 - 18:45	228	+	189	=	417	87	105	No
15:00 - 16:00	247		168		415	161	147	No



# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2373

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 = **1**  
 Number of Minor Lanes = **1**

Time	Major Road CSAH 2 (44th Ave)					Minor Road CSAH 2 (Main St)		Met?
	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	
16:00 - 17:00	338	+	217	=	555	120	171	No
16:30 - 17:30	316	+	222	=	538	101	156	No
15:45 - 16:45	338	+	199	=	537	126	167	No
16:15 - 17:15	330	+	199	=	529	115	161	No
16:45 - 17:45	302	+	227	=	529	96	137	No
17:00 - 18:00	292	+	217	=	509	106	128	No
15:30 - 16:30	318	+	190	=	508	127	165	No
17:15 - 18:15	284	+	217	=	501	105	121	No
15:15 - 16:15	287	+	190	=	477	115	164	No
17:30 - 18:30	253	+	209	=	462	97	113	No
17:45 - 18:45	228	+	189	=	417	87	105	No
15:00 - 16:00	247		168		415	161	147	No

