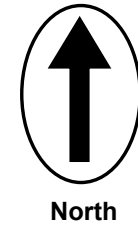


Date: 03/11/26

Count Number: TMC 2611

Location: CSAH 51  
@ 113th Ave

Collection Period: 24 HR



North

13330

#2

CSAH 51

6429			
E	F	G	H
0	5838	536	55

6901

113th Ave

I	520	1854
J	0	
K	1330	
L	4	

#3

2394

540

#1

0

0

0	D	0
	C	0
	B	0
	A	0

None

CSAH 51

7183

P	O	N	M
15	0	6326	0
6341			

#4

13524

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

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

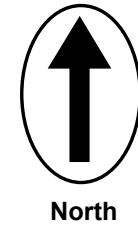
Date: 03/11/26

Count Number: TMC 2611

Location: CSAH 51  
@ 113th Ave

Collection Period: 24 HR

Peak Hour: 6:45 AM - 7:45 AM



1037

#2

CSAH 51

655			
0	629	25	1
E	F	G	H

382

113th Ave

I	48	162
J	0	
K	111	
L	3	

#3

190

28

0

#1

0

0	0	D
	0	C
	0	B
	0	A

None

CSAH 51

740

P	O	N	M
0	0	333	0
333			

#4

1073

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

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

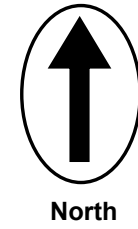
Date: 03/11/26

Count Number: TMC 2611

Location: CSAH 51  
@ 113th Ave

Collection Period: 24 HR

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



694

#2

CSAH 51

317			
0	289	26	2
E	F	G	H

377

113th Ave

I	19	80
J	0	
K	61	
L	0	

#3

106

26

#1

0

0	0	D
	0	C
	0	B
	0	A

None

P	O	N	M
0	0	356	0
356			

#4

706

CSAH 51

350

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

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

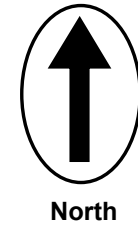
Date: 03/11/26

Count Number: TMC 2611

Location: CSAH 51  
@ 113th Ave

Collection Period: 24 HR

Peak Hour: 4:00 PM - 5:00 PM



1292

#2

CSAH 51

449			
0	385	60	4
E	F	G	H

843

113th Ave

I	46	127
J	0	
K	81	
L	0	

#3

187

60

#1

0

0

0	0	D
	0	C
	0	B
	0	A

None

CSAH 51

467

P	O	N	M
1	0	793	0
794			

#4

1261

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

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

TMC 2611 - CSAH 51 @ 113th Ave  
Blaine MN  
Wednesday, March 11, 2026

Time	Southbound CSAH 51					Westbound 113th Ave					Northbound CSAH 51					Eastbound None					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	4	0	0	4	0	4	0	0	0	4	0	0	12	0	0	12	0	0	0	0	0	0	20
12:15 AM	0	0	3	0	0	3	0	2	0	1	0	3	0	0	11	0	0	11	0	0	0	0	0	0	17
12:30 AM	0	0	7	0	0	7	0	1	0	1	0	2	0	0	5	0	0	5	0	0	0	0	0	0	14
12:45 AM	0	0	6	0	0	6	0	1	0	1	0	2	0	0	7	0	0	7	0	0	0	0	0	0	15
Hourly Total	0	0	20	0	0	20	0	8	0	3	0	11	0	0	35	0	0	35	0	0	0	0	0	0	66
1:00 AM	0	1	5	0	0	6	0	2	0	0	0	2	0	0	9	0	0	9	0	0	0	0	0	0	17
1:15 AM	0	1	4	0	0	5	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	15
1:30 AM	0	0	3	0	0	3	0	4	0	2	0	6	0	0	5	0	0	5	0	0	0	0	0	0	14
1:45 AM	0	1	4	0	0	5	0	1	0	0	0	1	0	0	7	0	0	7	0	0	0	0	0	0	13
Hourly Total	0	3	16	0	0	19	0	7	0	2	0	9	0	0	31	0	0	31	0	0	0	0	0	0	59
2:00 AM	0	0	6	0	0	6	0	1	0	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	11
2:15 AM	0	0	3	0	0	3	0	4	0	1	0	5	0	0	4	0	0	4	0	0	0	0	0	0	12
2:30 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	13
2:45 AM	0	0	3	0	0	3	0	4	0	0	0	4	0	0	3	0	0	3	0	0	0	0	0	0	10
Hourly Total	0	0	19	0	0	19	0	9	0	1	0	10	0	0	17	0	0	17	0	0	0	0	0	0	46
3:00 AM	0	1	9	0	0	10	0	2	0	1	0	3	0	0	6	0	0	6	0	0	0	0	0	0	19
3:15 AM	0	0	7	0	0	7	0	3	0	0	0	3	0	0	3	0	0	3	0	0	0	0	0	0	13
3:30 AM	0	0	13	0	0	13	0	4	0	1	0	5	0	0	3	0	0	3	0	0	0	0	0	0	21
3:45 AM	0	0	5	0	0	5	0	3	0	2	0	5	0	0	4	0	0	4	0	0	0	0	0	0	14
Hourly Total	0	1	34	0	0	35	0	12	0	4	0	16	0	0	16	0	0	16	0	0	0	0	0	0	67
4:00 AM	0	0	14	0	0	14	1	5	0	1	0	7	0	0	1	0	0	1	0	0	0	0	0	0	22
4:15 AM	0	0	19	0	0	19	0	8	0	2	0	10	0	0	0	0	0	0	0	0	0	0	0	0	29
4:30 AM	0	0	25	0	0	25	0	13	0	0	0	13	0	0	2	0	0	2	0	0	0	0	0	0	40
4:45 AM	0	0	31	0	0	31	0	12	0	3	0	15	0	0	3	0	0	3	0	0	0	0	0	0	49
Hourly Total	0	0	89	0	0	89	1	38	0	6	0	45	0	0	6	0	0	6	0	0	0	0	0	0	140
5:00 AM	0	0	26	0	0	26	0	10	0	4	0	14	0	0	2	0	0	2	0	0	0	0	0	0	42
5:15 AM	0	1	54	0	0	55	0	14	0	1	0	15	0	0	9	0	0	9	0	0	0	0	0	0	79
5:30 AM	0	1	69	0	0	70	0	13	0	4	0	17	0	0	17	0	0	17	0	0	0	0	0	0	104
5:45 AM	0	3	51	0	0	54	0	18	0	6	0	24	0	0	12	0	0	12	0	0	0	0	0	0	90
Hourly Total	0	5	200	0	0	205	0	55	0	15	0	70	0	0	40	0	0	40	0	0	0	0	0	0	315
6:00 AM	0	4	70	0	0	74	0	21	0	3	0	24	0	0	21	0	0	21	0	0	0	0	0	0	119
6:15 AM	0	2	98	0	0	100	0	25	0	8	0	33	0	0	20	0	0	20	0	0	0	0	0	0	153
6:30 AM	1	2	124	0	0	127	0	26	0	3	0	29	0	0	48	0	0	48	0	0	0	0	0	0	204
6:45 AM	0	7	125	0	0	132	0	18	0	9	0	27	0	0	84	0	0	84	0	0	0	0	0	0	243
Hourly Total	1	15	417	0	0	433	0	90	0	23	0	113	0	0	173	0	0	173	0	0	0	0	0	0	719
7:00 AM	0	5	127	0	0	132	0	34	0	17	0	51	0	0	103	0	0	103	0	0	0	0	0	0	286
7:15 AM	0	5	224	0	0	229	0	30	0	11	0	41	0	0	87	0	0	87	0	0	0	0	0	0	357
7:30 AM	1	8	153	0	0	162	3	29	0	11	0	43	0	0	59	0	0	59	0	0	0	0	0	0	264
7:45 AM	2	11	121	0	4	134	0	29	0	8	0	37	0	0	59	0	0	59	0	0	0	0	0	0	230
Hourly Total	3	29	625	0	4	657	3	122	0	47	0	172	0	0	308	0	0	308	0	0	0	0	0	0	1137

TMC 2611 - CSAH 51 @ 113th Ave  
Blaine MN  
Wednesday, March 11, 2026

Time	Southbound CSAH 51						Westbound 113th Ave						Northbound CSAH 51						Eastbound None						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	4	13	122	0	0	139	0	30	0	5	0	35	2	0	42	0	0	44	0	0	0	0	0	0	218
8:15 AM	6	8	147	0	0	161	0	22	0	8	0	30	1	0	72	0	0	73	0	0	0	0	0	0	264
8:30 AM	0	3	85	0	0	88	0	23	0	7	0	30	0	0	46	0	0	46	0	0	0	0	0	0	164
8:45 AM	3	11	154	0	0	168	0	22	0	9	0	31	0	0	62	0	0	62	0	0	0	0	0	0	261
Hourly Total	13	35	508	0	0	556	0	97	0	29	0	126	3	0	222	0	0	225	0	0	0	0	0	0	907
9:00 AM	0	9	85	0	0	94	0	23	0	5	0	28	0	0	42	0	0	42	0	0	0	0	0	0	164
9:15 AM	0	4	81	0	0	85	0	29	0	5	0	34	1	0	55	0	0	56	0	0	0	0	0	0	175
9:30 AM	1	4	67	0	0	72	0	21	0	5	0	26	0	0	58	0	0	58	0	0	0	0	0	0	156
9:45 AM	0	5	71	0	0	76	0	14	0	5	0	19	0	0	51	0	0	51	0	0	0	0	0	0	146
Hourly Total	1	22	304	0	0	327	0	87	0	20	0	107	1	0	206	0	0	207	0	0	0	0	0	0	641
10:00 AM	1	2	71	0	0	74	0	11	0	9	0	20	0	0	36	0	0	36	0	0	0	0	0	0	130
10:15 AM	1	8	71	0	0	80	0	13	0	4	0	17	0	0	52	0	0	52	0	0	0	0	0	0	149
10:30 AM	0	1	66	0	0	67	0	12	0	11	0	23	1	0	52	0	0	53	0	0	0	0	0	0	143
10:45 AM	0	6	68	0	0	74	0	15	0	5	0	20	0	0	66	0	0	66	0	0	0	0	0	0	160
Hourly Total	2	17	276	0	0	295	0	51	0	29	0	80	1	0	206	0	0	207	0	0	0	0	0	0	582
11:00 AM	0	4	76	0	0	80	0	9	0	4	0	13	0	0	57	0	0	57	0	0	0	0	0	0	150
11:15 AM	0	3	67	0	0	70	0	5	0	4	0	9	0	0	71	0	0	71	0	0	0	0	0	0	150
11:30 AM	0	6	61	0	0	67	0	12	0	9	0	21	0	0	62	0	0	62	0	0	0	0	0	0	150
11:45 AM	0	5	63	0	0	68	0	15	0	3	0	18	0	0	64	0	0	64	0	0	0	0	0	0	150
Hourly Total	0	18	267	0	0	285	0	41	0	20	0	61	0	0	254	0	0	254	0	0	0	0	0	0	600
12:00 PM	0	8	54	0	0	62	0	19	0	11	0	30	0	0	98	0	0	98	0	0	0	0	0	0	190
12:15 PM	0	8	63	0	0	71	0	11	0	4	0	15	0	0	94	0	0	94	0	0	0	0	0	0	180
12:30 PM	1	5	65	0	0	71	0	24	0	3	0	27	0	0	93	0	0	93	0	0	0	0	0	0	191
12:45 PM	1	8	80	0	0	89	0	12	0	4	0	16	0	0	78	0	0	78	0	0	0	0	0	0	183
Hourly Total	2	29	262	0	0	293	0	66	0	22	0	88	0	0	363	0	0	363	0	0	0	0	0	0	744
1:00 PM	0	5	81	0	0	86	0	14	0	8	0	22	0	0	91	0	0	91	0	0	0	0	0	0	199
1:15 PM	0	5	71	0	0	76	0	15	0	5	0	20	0	0	80	0	0	80	0	0	0	0	0	0	176
1:30 PM	0	1	59	0	0	60	0	14	0	4	2	18	1	0	81	0	0	82	0	0	0	0	0	0	160
1:45 PM	2	6	71	0	1	79	0	19	0	9	0	28	0	0	110	0	0	110	0	0	0	0	0	0	217
Hourly Total	2	17	282	0	1	301	0	62	0	26	2	88	1	0	362	0	0	363	0	0	0	0	0	0	752
2:00 PM	0	9	91	0	0	100	0	18	0	10	0	28	0	0	129	0	0	129	0	0	0	0	0	0	257
2:15 PM	1	12	117	0	0	130	0	19	0	12	0	31	1	0	126	0	0	127	0	0	0	0	0	0	288
2:30 PM	0	7	80	0	0	87	0	23	0	9	0	32	0	0	116	0	0	116	0	0	0	0	0	0	235
2:45 PM	0	12	84	0	0	96	0	17	0	7	0	24	1	0	146	0	0	147	0	0	0	0	0	0	267
Hourly Total	1	40	372	0	0	413	0	77	0	38	0	115	2	0	517	0	0	519	0	0	0	0	0	0	1047
3:00 PM	5	11	104	0	4	120	0	27	0	9	0	36	0	0	131	0	0	131	0	0	0	0	0	0	287
3:15 PM	1	16	128	0	31	145	0	28	0	9	0	37	1	0	141	0	0	142	0	0	0	0	0	0	324
3:30 PM	2	8	112	0	0	122	0	20	0	8	0	28	0	0	180	0	0	180	0	0	0	0	0	0	330
3:45 PM	0	12	102	0	0	114	0	27	0	18	0	45	0	0	183	0	0	183	0	0	0	0	0	0	342
Hourly Total	8	47	446	0	35	501	0	102	0	44	0	146	1	0	635	0	0	636	0	0	0	0	0	0	1283



**TMC 2611 - CSAH 51 @ 113th Ave**  
**Blaine MN**  
**Wednesday, March 11, 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							
6:45 AM	0	7	125	0	0	132	0	18	0	9	0	27	0	0	84	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0	243
7:00 AM	0	5	127	0	0	132	0	34	0	17	0	51	0	0	103	0	0	103	0	0	0	0	0	0	0	0	0	0	0	0	286
7:15 AM	0	5	224	0	0	229	0	30	0	11	0	41	0	0	87	0	0	87	0	0	0	0	0	0	0	0	0	0	0	0	357
7:30 AM	1	8	153	0	0	162	3	29	0	11	0	43	0	0	59	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	264
Peak Hour Total	1	25	629	0	0	655	3	111	0	48	0	162	0	0	333	0	0	333	0	0	0	0	0	0	0	0	0	0	0	0	1150
Peak Hour Heavy Vehicles	0	5	12	0	0	17	0	5	0	2	0	7	0	0	18	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	42
Peak Hour Heavy Vehicles % PHF	0.00%	20.00%	1.91%	0.00%	0.00%	2.60%	0.00%	4.50%	0.00%	4.17%	0.00%	4.32%	0.00%	0.00%	5.41%	0.00%	0.00%	5.41%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.65%
	0.250	0.781	0.702	0.000	0.000	0.715	0.250	0.816	0.000	0.706	0.000	0.794	0.000	0.000	0.808	0.000	0.000	0.808	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.805

**Mid Peak Hour (10:00 - 14:00)**

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL						
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total							
12:15 PM	0	8	63	0	0	71	0	11	0	4	0	15	0	0	94	0	0	94	0	0	0	0	0	0	0	0	0	0	0	0	180
12:30 PM	1	5	65	0	0	71	0	24	0	3	0	27	0	0	93	0	0	93	0	0	0	0	0	0	0	0	0	0	0	0	191
12:45 PM	1	8	80	0	0	89	0	12	0	4	0	16	0	0	78	0	0	78	0	0	0	0	0	0	0	0	0	0	0	0	183
1:00 PM	0	5	81	0	0	86	0	14	0	8	0	22	0	0	91	0	0	91	0	0	0	0	0	0	0	0	0	0	0	0	199
Peak Hour Total	2	26	289	0	0	317	0	61	0	19	0	80	0	0	356	0	0	356	0	0	0	0	0	0	0	0	0	0	0	0	753
Peak Hour Heavy Vehicles	0	0	5	0	0	5	0	2	0	0	0	2	0	0	10	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	17
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	1.73%	0.00%	0.00%	1.58%	0.00%	3.28%	0.00%	0.00%	0.00%	2.50%	0.00%	0.00%	2.81%	0.00%	0.00%	2.81%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.26%
	0.500	0.813	0.892	0.000	0.000	0.890	0.000	0.635	0.000	0.594	0.000	0.741	0.000	0.000	0.947	0.000	0.000	0.947	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.946

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

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL						
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total							
4:00 PM	2	17	109	0	1	128	0	10	0	9	0	19	0	0	222	0	0	222	0	0	0	0	0	0	0	0	0	0	0	0	369
4:15 PM	1	16	90	0	2	107	0	29	0	11	0	40	0	0	172	0	0	172	0	0	0	0	0	0	0	0	0	0	0	0	319
4:30 PM	0	15	80	0	1	95	0	22	0	14	0	36	1	0	207	0	0	208	0	0	0	0	0	0	0	0	0	0	0	0	339
4:45 PM	1	12	106	0	9	119	0	20	0	12	0	32	0	0	192	0	0	192	0	0	0	0	0	0	0	0	0	0	0	0	343
Peak Hour Total	4	60	385	0	13	449	0	81	0	46	0	127	1	0	793	0	0	794	0	0	0	0	0	0	0	0	0	0	0	0	1370
Peak Hour Heavy Vehicles	0	1	4	0	3	5	0	6	0	2	0	8	0	0	4	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	17
Peak Hour Heavy Vehicles % PHF	0.00%	1.67%	1.04%	0.00%	23.08%	1.11%	0.00%	7.41%	0.00%	4.35%	0.00%	6.30%	0.00%	0.00%	0.50%	0.00%	0.00%	0.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.24%
	0.500	0.882	0.883	0.000	0.361	0.877	0.000	0.698	0.000	0.821	0.000	0.794	0.250	0.000	0.893	0.000	0.000	0.894	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.928

Total Vehicles On Leg		13330			
Vehicles Entering Intersection	6429	Vehicles Exiting Intersection		6901	
<b>Southbound</b>					
Cars	0	5742	504	55	78
Heavy	0	95	32	0	10
<b>Total</b>	<b>0</b>	<b>5838</b>	<b>536</b>	<b>55</b>	<b>88</b>

Total Vehicles on Leg 0	Vehicles Entering Intersection	Eastbound	Cars	Heavy	Total
	Exiting Intersection 0		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 2394
506	14	520		Exiting Intersection 540	
0	0	0			
1290	40	1330			
4	0	4			
7	2	9			

Cars	1	15	0	6223	0
Heavy	0	0	0	103	0
<b>Total</b>	<b>1</b>	<b>15</b>	<b>0</b>	<b>6326</b>	<b>0</b>
<b>Northbound</b>					
Vehicles Entering Intersection 6341			Vehicles Exiting Intersection 7183		
Total Vehicles On Leg 13524					

TMC 2611 - CSAH 51 @ 113th Ave  
Blaine MN  
Wednesday, March 11, 2026

Time	Southbound Heavy CSAH 51						Westbound Heavy 113th Ave						Northbound Heavy CSAH 51						Eastbound Heavy None						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	1	0	0	0	1	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 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
1:00 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 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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 'Heavy Vehicles'	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
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	2	0	0	0	2	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2
4:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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 'Heavy Vehicles'	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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	1	0	0	1	0	0	0	0	0	0	0	1
5:30 AM	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
5:45 AM	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	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
6:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	4
6:15 AM	0	1	3	0	0	4	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	5
6:30 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	5
6:45 AM	0	3	1	0	0	4	0	1	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	8
Hourly 'Heavy Vehicles'	0	4	9	0	0	13	0	1	0	0	1	0	0	8	0	0	8	0	0	0	0	0	0	0	22
7:00 AM	0	2	1	0	0	3	0	1	0	2	0	3	0	0	11	0	0	11	0	0	0	0	0	0	17
7:15 AM	0	0	9	0	0	9	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	11
7:30 AM	0	0	1	0	0	1	0	2	0	0	2	0	0	3	0	0	3	0	0	0	0	0	0	0	6
7:45 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	3	11	0	0	14	0	4	0	2	0	6	0	0	17	0	0	17	0	0	0	0	0	0	37

TMC 2611 - CSAH 51 @ 113th Ave  
Blaine MN  
Wednesday, March 11, 2026

Time	Southbound Heavy CSAH 51						Westbound Heavy 113th Ave						Northbound Heavy CSAH 51						Eastbound Heavy None						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	4	2	0	0	6	0	4	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	11
8:15 AM	0	0	2	0	0	2	0	0	0	1	0	1	0	0	3	0	0	3	0	0	0	0	0	0	6	
8:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
8:45 AM	0	4	6	0	0	10	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	12	
Hourly 'Heavy Vehicles'	0	8	12	0	0	20	0	5	0	2	0	7	0	0	4	0	0	4	0	0	0	0	0	0	31	
9:00 AM	0	2	4	0	0	6	0	2	0	0	0	2	0	0	3	0	0	3	0	0	0	0	0	0	11	
9:15 AM	0	1	3	0	0	4	0	4	0	0	0	4	0	0	12	0	0	12	0	0	0	0	0	0	20	
9:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3	
9:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3	
Hourly 'Heavy Vehicles'	0	3	10	0	0	13	0	6	0	0	0	6	0	0	18	0	0	18	0	0	0	0	0	0	37	
10:00 AM	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	
10:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3	
10:30 AM	0	0	1	0	0	1	0	0	0	1	0	1	0	0	3	0	0	3	0	0	0	0	0	0	5	
10:45 AM	0	2	0	0	0	2	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	6	
Hourly 'Heavy Vehicles'	0	2	4	0	0	6	0	1	0	1	0	2	0	0	7	0	0	7	0	0	0	0	0	0	15	
11:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0	2	0	0	0	0	0	0	3	
11:15 AM	0	0	1	0	0	1	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	3	
11:30 AM	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	
11:45 AM	0	0	1	0	0	1	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	3	
Hourly 'Heavy Vehicles'	0	0	3	0	0	3	0	2	0	1	0	3	0	0	4	0	0	4	0	0	0	0	0	0	10	
12:00 PM	0	0	1	0	0	1	0	1	0	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	6	
12:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	4	
12:30 PM	0	0	2	0	0	2	0	1	0	0	0	1	0	0	5	0	0	5	0	0	0	0	0	0	8	
12:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3	
Hourly 'Heavy Vehicles'	0	0	6	0	0	6	0	2	0	0	0	2	0	0	13	0	0	13	0	0	0	0	0	0	21	
1:00 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	2	
1:15 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	3	
1:45 PM	0	1	3	0	1	4	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	5	
Hourly 'Heavy Vehicles'	0	1	5	0	1	6	0	1	0	0	0	1	0	0	5	0	0	5	0	0	0	0	0	0	12	
2:00 PM	0	0	1	0	0	1	0	1	0	1	0	2	0	0	3	0	0	3	0	0	0	0	0	0	6	
2:15 PM	0	2	11	0	0	13	0	2	0	0	0	2	0	0	6	0	0	6	0	0	0	0	0	0	21	
2:30 PM	0	2	1	0	0	3	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	5	
2:45 PM	0	0	0	0	0	0	0	2	0	0	0	2	0	0	2	0	0	2	0	0	0	0	0	0	4	
Hourly 'Heavy Vehicles'	0	4	13	0	0	17	0	6	0	1	0	7	0	0	12	0	0	12	0	0	0	0	0	0	36	
3:00 PM	0	1	2	0	0	3	0	1	0	2	0	3	0	0	1	0	0	1	0	0	0	0	0	0	7	
3:15 PM	0	4	5	0	0	9	0	2	0	3	0	5	0	0	1	0	0	1	0	0	0	0	0	0	15	
3:30 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	4	
3:45 PM	0	0	4	0	0	4	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	6	
Hourly 'Heavy Vehicles'	0	5	13	0	0	18	0	4	0	5	0	9	0	0	5	0	0	5	0	0	0	0	0	0	32	

TMC 2611 - CSAH 51 @ 113th Ave  
Blaine MN  
Wednesday, March 11, 2026

Time	Southbound Heavy CSAH 51						Westbound Heavy 113th Ave						Northbound Heavy CSAH 51						Eastbound Heavy None						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	1	3	0	1	4	0	0	0	1	0	1	0	0	3	0	0	3	0	0	0	0	0	0	8
4:15 PM	0	0	0	0	0	0	0	5	0	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
4:30 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
4:45 PM	0	0	1	0	2	1	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	1	4	0	3	5	0	6	0	2	0	8	0	0	4	0	0	4	0	0	0	0	0	0	17
5:00 PM	0	1	1	0	0	2	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	4
5:15 PM	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
5:30 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
5:45 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 'Heavy Vehicles'	0	1	1	0	0	2	0	2	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	5
6:00 PM	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1
6:30 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
6:45 PM	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	4	0	0	0	0	0	2	0	0	0	1	0	0	1	0	0	0	0	0	0	1
7:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 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
7:30 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
7:45 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 'Heavy Vehicles'	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 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
8:15 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
8:30 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
8:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>DAILY 'Heavy Vehicles'</b>	<b>0</b>	<b>32</b>	<b>96</b>	<b>0</b>	<b>10</b>	<b>128</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>14</b>	<b>2</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>103</b>	<b>0</b>	<b>0</b>	<b>103</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>285</b>

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2611

Study Date : 03/23/2026

## Signal Warrants - Summary

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### Major Street Approaches

Northbound: CSAH 51

Number of Lanes : 2+

Total Approach Volume: 6,341

Southbound: CSAH 51

Number of Lanes : 2+

Total Approach Volume: 6,429

### Minor Street Approaches

Westbound: 113th Ave

Number of Lanes : 2+

Total Approach Volume: 1,854

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### Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 12 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 16 hours, 8 are needed

Required 1B volumes reached for 17 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 2611

Study Date : 03/23/2026

## 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

12 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 = **252**  
 Veh/Hr Minor = **84**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	<b>CSAH 51</b>					<b>None</b>		
15:30 - 16:30	757	+	471	=	1228	0	132	Yes
16:30 - 17:30	797	+	428	=	1225	0	135	Yes
14:30 - 15:30	536	+	448	=	984	0	129	Yes
06:30 - 07:30	322	+	620	=	942	0	148	Yes
17:30 - 18:30	547	+	376	=	923	0	112	Yes
07:30 - 08:30	235	+	596	=	831	0	145	Yes
13:30 - 14:30	448	+	369	=	817	0	105	Yes
18:30 - 19:30	362	+	309	=	671	0	94	Yes
12:30 - 13:30	342	+	322	=	664	0	85	Yes
08:30 - 09:30	206	+	435	=	641	0	123	Yes
11:30 - 12:30	318	+	268	=	586	0	84	Yes
05:30 - 06:30	70	+	298	=	368	0	98	Yes
11:15 - 12:15	295	+	267	=	562	0	78	No
10:45 - 11:45	256	+	291	=	547	0	63	No
11:00 - 12:00	254	+	285	=	539	0	61	No
10:30 - 11:30	247	+	291	=	538	0	65	No
10:15 - 11:15	228	+	301	=	529	0	73	No
19:30 - 20:30	287	+	230	=	517	0	68	No
19:45 - 20:45	269	+	245	=	514	0	67	No
10:00 - 11:00	207	+	295	=	502	0	80	No
09:30 - 10:30	197	+	302	=	499	0	82	No
09:45 - 10:45	192	+	297	=	489	0	79	No
20:00 - 21:00	258	+	224	=	482	0	70	No
20:15 - 21:15	252	+	211	=	463	0	67	No
20:30 - 21:30	238		198		436	0	61	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2611

Study Date : 03/23/2026

## 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 = **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 = **378**  
 Veh/Hr Minor = **42**

Time	Major Road				Total	Minor EB	Minor Road		Met?
	Major NB	+	Major SB	=			Minor WB	None	
15:45 - 16:45	785	+	444	=	1229	0	140	Yes	
16:45 - 17:45	774	+	422	=	1196	0	131	Yes	
14:45 - 15:45	600	+	483	=	1083	0	125	Yes	
06:45 - 07:45	333	+	655	=	988	0	162	Yes	
13:45 - 14:45	482	+	396	=	878	0	119	Yes	
17:45 - 18:45	466	+	375	=	841	0	104	Yes	
07:45 - 08:45	222	+	522	=	744	0	132	Yes	
12:45 - 13:45	331	+	311	=	642	0	76	Yes	
08:45 - 09:45	218	+	419	=	637	0	119	Yes	
11:45 - 12:45	349	+	272	=	621	0	90	Yes	
18:45 - 19:45	335	+	272	=	607	0	87	Yes	
10:45 - 11:45	256	+	291	=	547	0	63	Yes	
19:45 - 20:45	269	+	245	=	514	0	67	Yes	
09:45 - 10:45	192	+	297	=	489	0	79	Yes	
05:45 - 06:45	101	+	355	=	456	0	110	Yes	
20:45 - 21:45	219	+	165	=	384	0	55	Yes	
05:30 - 06:30	70	+	298	=	368	0	98	No	
05:15 - 06:15	59	+	253	=	312	0	80	No	
21:45 - 22:45	163	+	108	=	271	0	35	No	
05:00 - 06:00	40	+	205	=	245	0	70	No	
22:00 - 23:00	148	+	91	=	239	0	30	No	
04:45 - 05:45	31	+	182	=	213	0	61	No	
22:15 - 23:15	128	+	78	=	206	0	29	No	
22:30 - 23:30	110	+	63	=	173	0	19	No	
22:45 - 23:45	100		57		157	0	15	No	

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2611

Study Date : 03/23/2026

## Warrant 1C Combination of Warrants

#### Description

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

#### Summary

16 hours meet 1A minimums.  
17 hours meet 1B 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  
Warrant 1A 1B  
Veh/Hr Major = **202 302**

Veh/Hr Minor = **67 34**

#### Major Road CSAH 51

#### Minor Road None

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
15:15 - 16:15	727	+	509	=	1236	0	129	Yes
16:15 - 17:15	785	+	423	=	1208	0	137	Yes
17:15 - 18:15	619	+	395	=	1014	0	122	Yes
07:00 - 08:00	308	+	657	=	965	0	172	Yes
14:15 - 15:15	521	+	433	=	954	0	123	Yes
08:00 - 09:00	225	+	556	=	781	0	126	Yes
18:15 - 19:15	404	+	341	=	745	0	103	Yes
13:15 - 14:15	401	+	315	=	716	0	94	Yes
12:15 - 13:15	356	+	317	=	673	0	80	Yes
06:00 - 07:00	173	+	433	=	606	0	113	Yes
11:15 - 12:15	295	+	267	=	562	0	78	Yes
09:00 - 10:00	207		327		534	0	107	Yes

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:15 - 16:15	727	+	509	=	1236	0	129	Yes
16:15 - 17:15	785	+	423	=	1208	0	137	Yes
17:15 - 18:15	619	+	395	=	1014	0	122	Yes
14:15 - 15:15	521	+	433	=	954	0	123	Yes
07:15 - 08:15	249	+	664	=	913	0	156	Yes
06:15 - 07:15	255	+	491	=	746	0	140	Yes
18:15 - 19:15	404	+	341	=	745	0	103	Yes
08:15 - 09:15	223	+	511	=	734	0	119	Yes
13:15 - 14:15	401	+	315	=	716	0	94	Yes
12:15 - 13:15	356	+	317	=	673	0	80	Yes
11:15 - 12:15	295	+	267	=	562	0	78	Yes
10:15 - 11:15	228		301		529	0	73	Yes

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2611

Study Date : 03/23/2026

## 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.

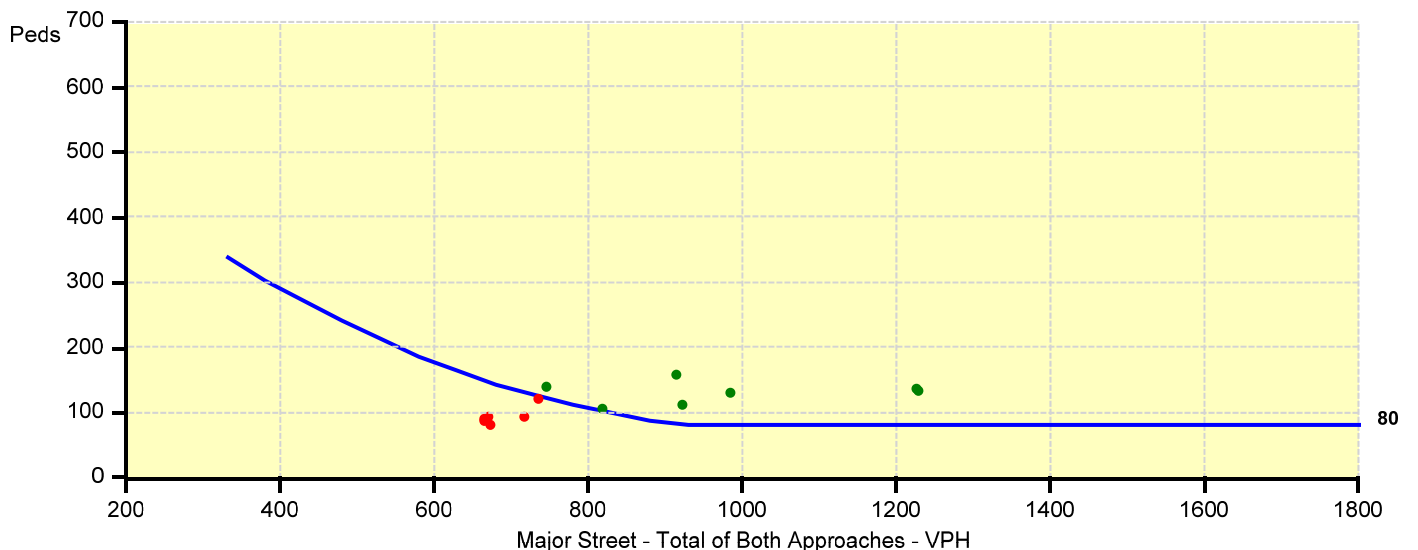
#### Summary

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 51				Total	Minor Road None		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:30 - 16:30	757	+	471	=	1228	0	132	Yes
16:30 - 17:30	797	+	428	=	1225	0	135	Yes
14:30 - 15:30	536	+	448	=	984	0	129	Yes
17:30 - 18:30	547	+	376	=	923	0	112	Yes
07:15 - 08:15	249	+	664	=	913	0	156	Yes
13:30 - 14:30	448	+	369	=	817	0	105	Yes
06:15 - 07:15	255	+	491	=	746	0	140	Yes
08:15 - 09:15	223	+	511	=	734	0	119	No
13:15 - 14:15	401	+	315	=	716	0	94	No
12:15 - 13:15	356	+	317	=	673	0	80	No
18:30 - 19:30	362	+	309	=	671	0	94	No
13:00 - 14:00	363		301		664	0	88	No



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2611

Study Date : 03/23/2026

## 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.

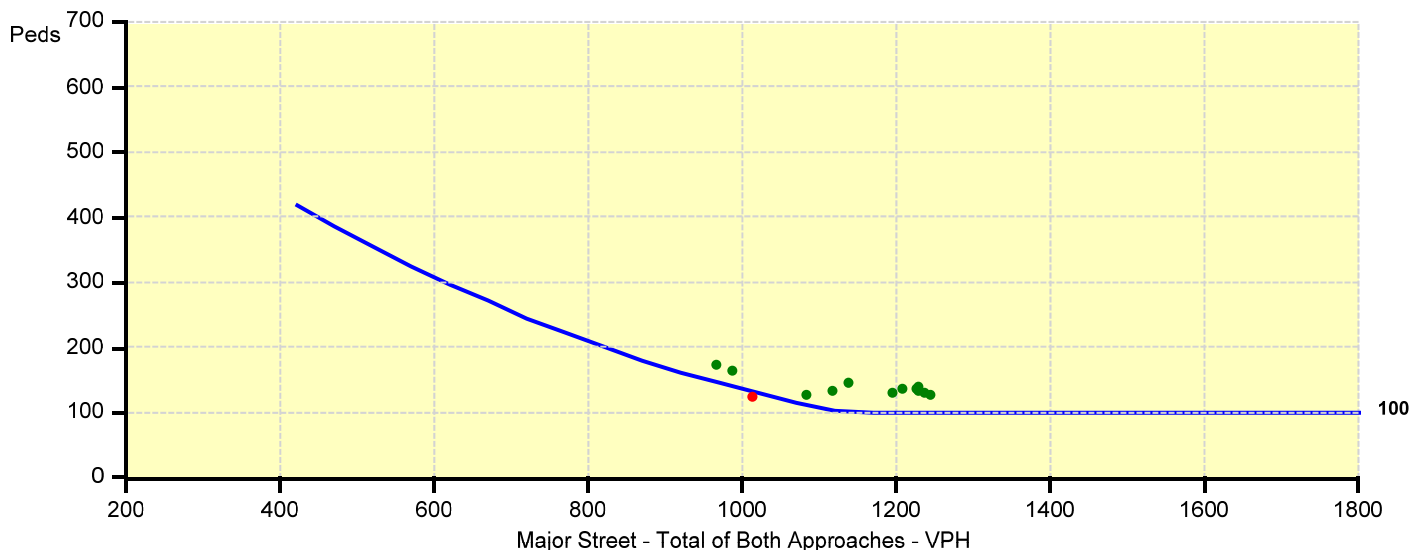
#### Summary

12 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 51				Total	Minor Road None		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	794	+	449	=	1243	0	127	Yes
15:15 - 16:15	727	+	509	=	1236	0	129	Yes
15:45 - 16:45	785	+	444	=	1229	0	140	Yes
15:30 - 16:30	757	+	471	=	1228	0	132	Yes
16:30 - 17:30	797	+	428	=	1225	0	135	Yes
16:15 - 17:15	785	+	423	=	1208	0	137	Yes
16:45 - 17:45	774	+	422	=	1196	0	131	Yes
15:00 - 16:00	636	+	501	=	1137	0	146	Yes
17:00 - 18:00	722	+	396	=	1118	0	132	Yes
14:45 - 15:45	600	+	483	=	1083	0	125	Yes
06:45 - 07:45	333	+	655	=	988	0	162	Yes
07:00 - 08:00	308	+	657	=	965	0	172	Yes



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2611

Study Date : 03/23/2026

## Multiway Stop Warrants - Summary

### Major Street Approaches

**Northbound: CSAH 51**  
 Number of Lanes : 2+  
 Total Approach Volume: 6,341

**Southbound: CSAH 51**  
 Number of Lanes :2+  
 Total Approach Volume: 6,429

### Minor Street Approaches

**Eastbound: None**  
 Number of Lanes :2+  
 Total Approach Volume: 0

**Westbound: 113th Ave**  
 Number of Lanes :2+  
 Total Approach Volume: 1,854

### Warrant Summary (Rural Values Apply)

<b>Criteria A - Interim Measure</b> .....	<b>Not Evaluated</b>
If traffic signals are justified, stop signs can be installed as an interim measure.	
<b>Criteria B - Crash Experience</b> .....	<b>Not Satisfied</b>
Number of crashes (-1) is less than minimum required (5).	
<b>Criteria C - Minimum Volumes and Delays</b> .....	<b>Satisfied</b>
Average of 8 highest hours meets or exceeds volume criteria.	
<b>Criteria D - 80% of Volumes, Delays, and Crashes</b> .....	<b>Not Satisfied</b>
Number of crashes (-1) is less than minimum required (4). Average of 8 highest hours meets or exceeds volume criteria.	

### Criteria C Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
16:00 - 17:00	1243	958.1	187	161.6	210	140	Yes
15:00 - 16:00	1137		217				
17:00 - 18:00	1118		177				
06:45 - 07:45	988		174				
14:00 - 15:00	932		189				
08:00 - 09:00	781		126				
18:00 - 19:00	793		139				
12:15 - 13:15	673		84				
09:00 - 10:00	534		107				
11:15 - 12:15	562		78				
19:00 - 20:00	558		87				
10:15 - 11:15	529		73				

### Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
16:00 - 17:00	1243	958.1	187	161.6	240	160	Yes
15:00 - 16:00	1137		217				
17:00 - 18:00	1118		177				
06:45 - 07:45	988		174				
14:00 - 15:00	932		189				
08:00 - 09:00	781		126				
18:00 - 19:00	793		139				
12:15 - 13:15	673		84				
09:00 - 10:00	534		107				
11:15 - 12:15	562		78				
19:00 - 20:00	558		87				
10:15 - 11:15	529		73				