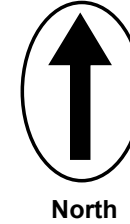


Date: 08/29/24

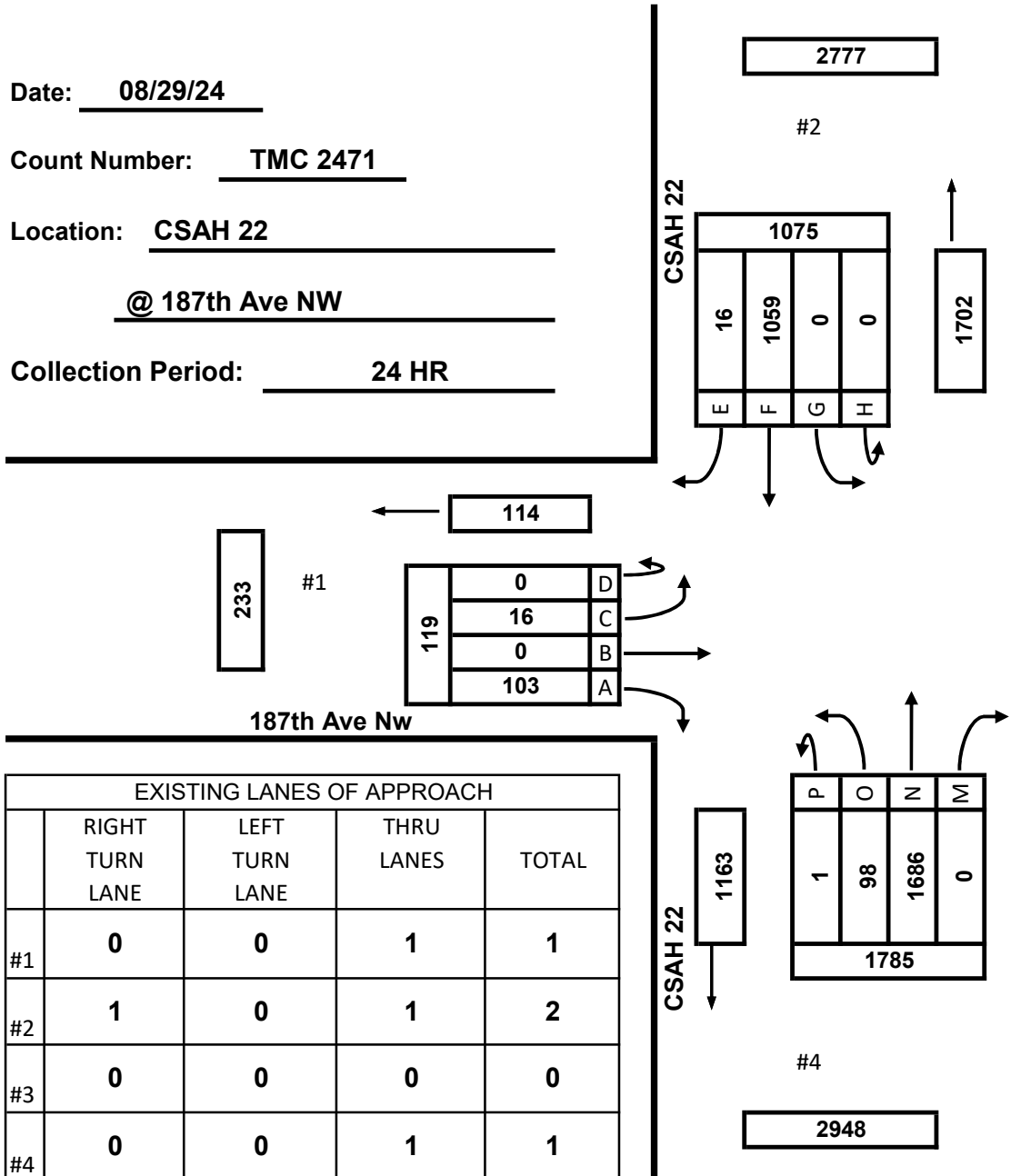
Count Number: TMC 2471

Location: CSAH 22  
@ 187th Ave NW

Collection Period: 24 HR



North



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

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

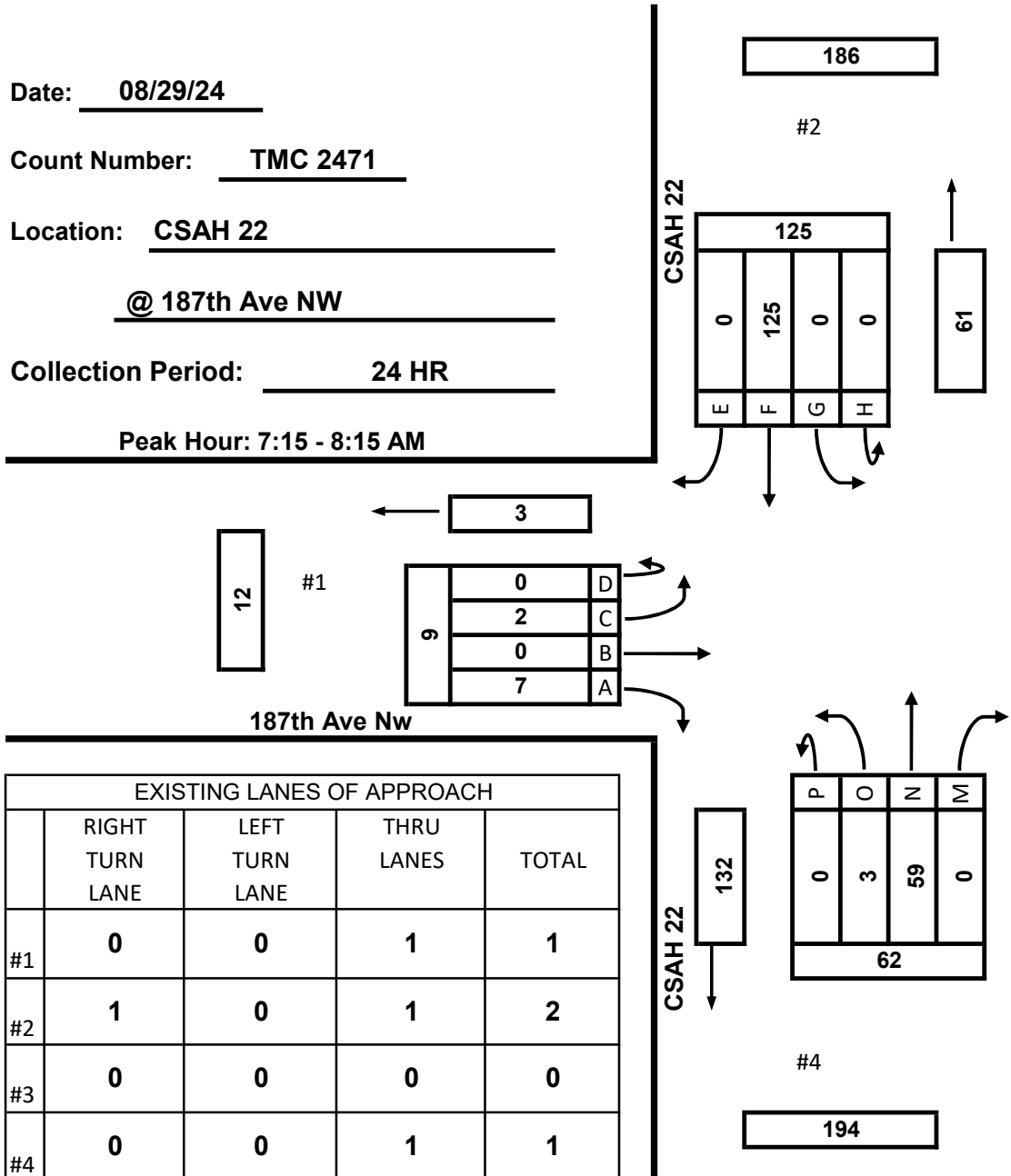
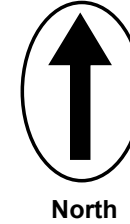
Date: 08/29/24

Count Number: TMC 2471

Location: CSAH 22  
@ 187th Ave NW

Collection Period: 24 HR

Peak Hour: 7:15 - 8:15 AM



Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

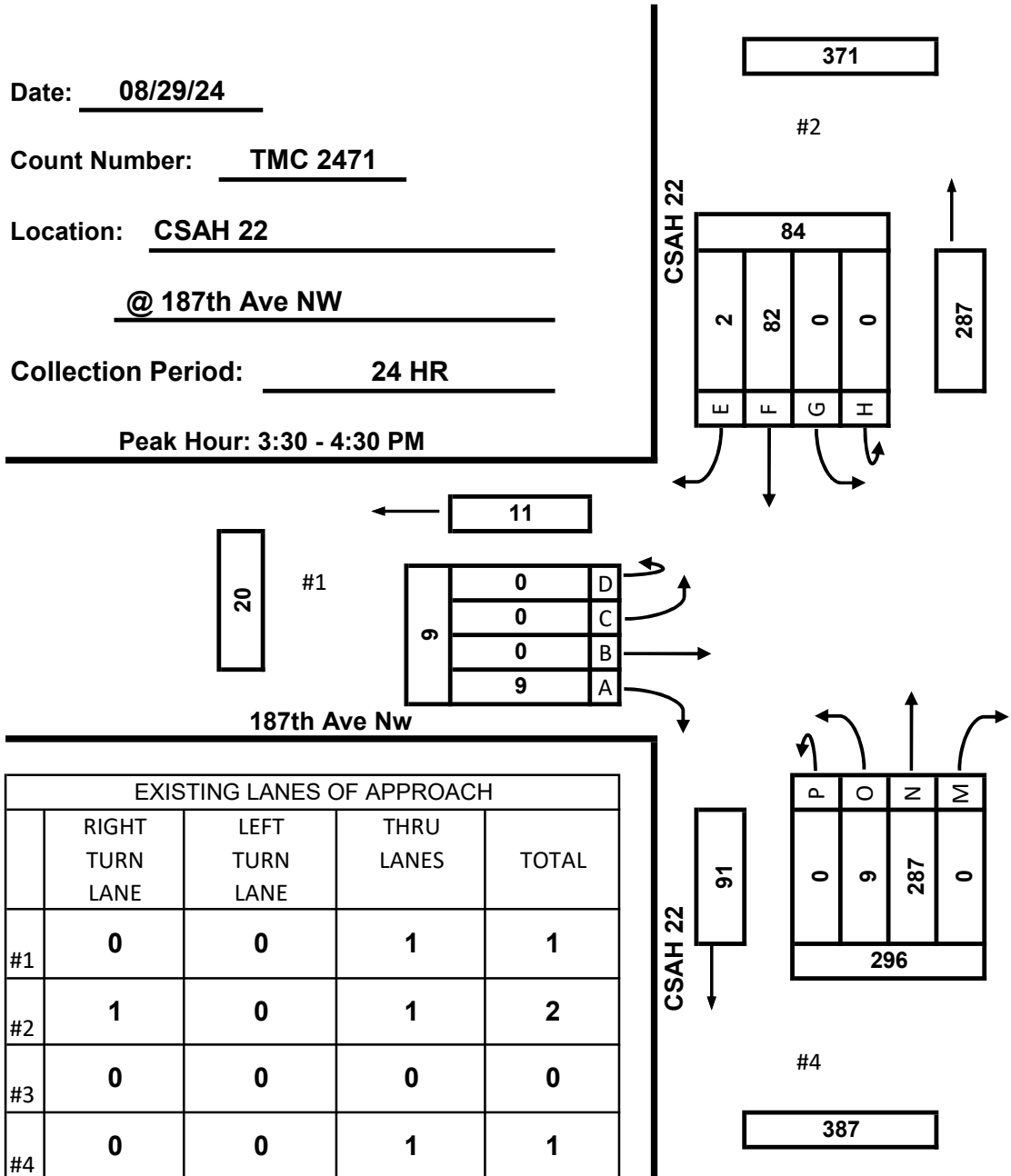
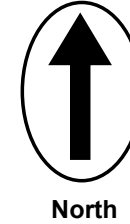
Date: 08/29/24

Count Number: TMC 2471

Location: CSAH 22  
@ 187th Ave NW

Collection Period: 24 HR

Peak Hour: 3:30 - 4:30 PM



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

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

**TMC 2471 - CSAH 22 @ 187th Ave NW  
Nowthen MN  
Thursday, August 29, 2024**

Time	Southbound CSAH 22						Westbound 0						Northbound CSAH 22						Eastbound 187th Ave NW						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	3	1	0	4	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	5
12:15 AM	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
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	1	0	0	1	0	0	0	0	0	0	1
Hourly Total	0	0	3	1	0	4	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	8
1:00 AM	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
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
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	3	0	0	3	0	0	0	0	0	0	3
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	1	0	0	1	0	0	0	0	0	0	1
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 Total	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
3:00 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
3:15 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
3:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
3:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
Hourly Total	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	6
4:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	5
4:15 AM	0	0	9	0	0	9	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	11
4:30 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	6
4:45 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	7
Hourly Total	0	0	22	0	0	22	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	1	0	1	29
5:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	1	0	1	6
5:15 AM	0	0	10	0	0	10	0	0	0	0	0	0	1	0	3	0	0	4	0	0	0	1	0	1	15
5:30 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	16
5:45 AM	0	0	16	0	0	16	0	0	0	0	0	0	0	1	4	0	0	5	0	0	0	1	0	1	22
Hourly Total	0	0	41	0	0	41	0	0	0	0	0	0	1	1	13	0	0	15	0	0	0	3	0	3	59
6:00 AM	0	0	20	0	0	20	0	0	0	0	0	0	0	0	9	0	0	9	0	1	0	1	0	2	31
6:15 AM	0	0	26	0	0	26	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	1	0	1	35
6:30 AM	0	0	38	0	0	38	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	1	0	1	47
6:45 AM	0	0	26	0	0	26	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	1	0	1	39
Hourly Total	0	0	110	0	0	110	0	0	0	0	0	0	0	0	37	0	0	37	0	1	0	4	0	5	152
7:00 AM	0	0	27	0	0	27	0	0	0	0	0	0	0	1	12	0	0	13	0	0	0	1	0	1	41
7:15 AM	0	0	32	0	0	32	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	1	0	1	47
7:30 AM	0	0	34	0	0	34	0	0	0	0	0	0	0	1	14	0	0	15	0	1	0	2	0	3	52
7:45 AM	0	0	31	0	0	31	0	0	0	0	0	0	0	1	14	0	0	15	0	0	0	1	0	1	47
Hourly Total	0	0	124	0	0	124	0	0	0	0	0	0	0	3	54	0	0	57	0	1	0	5	0	6	187

**TMC 2471 - CSAH 22 @ 187th Ave NW  
Nowthen MN  
Thursday, August 29, 2024**

Time	Southbound CSAH 22						Westbound 0						Northbound CSAH 22						Eastbound 187th Ave NW						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	28	0	0	28	0	0	0	0	0	0	0	1	17	0	0	18	0	1	0	3	0	4	50
8:15 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	1	16	0	0	17	0	0	0	2	0	2	31
8:30 AM	0	0	13	1	0	14	0	0	0	0	0	0	0	1	9	0	0	10	0	0	0	1	0	1	25
8:45 AM	0	0	14	0	0	14	0	0	0	0	0	0	0	2	9	0	0	11	0	0	0	2	0	2	27
Hourly Total	0	0	67	1	0	68	0	0	0	0	0	0	0	5	51	0	0	56	0	1	0	8	0	9	133
9:00 AM	0	0	15	0	0	15	0	0	0	0	0	0	0	2	16	0	0	18	0	0	0	3	0	3	36
9:15 AM	0	0	19	0	0	19	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	1	0	1	34
9:30 AM	0	0	18	1	0	19	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	30
9:45 AM	0	0	15	0	0	15	0	0	0	0	0	0	0	2	11	0	0	13	0	1	0	0	0	1	29
Hourly Total	0	0	67	1	0	68	0	0	0	0	0	0	0	4	52	0	0	56	0	1	0	4	0	5	129
10:00 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	1	24	0	0	25	0	1	0	0	0	1	38
10:15 AM	0	0	13	0	0	13	0	0	0	0	0	0	0	2	19	0	0	21	0	0	0	4	0	4	38
10:30 AM	0	0	15	0	2	15	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	0	29
10:45 AM	0	0	21	0	0	21	0	0	0	0	0	0	0	1	18	0	0	19	0	0	0	0	0	0	40
Hourly Total	0	0	61	0	2	61	0	0	0	0	0	0	0	4	75	0	0	79	0	1	0	4	0	5	145
11:00 AM	0	0	10	0	0	10	0	0	0	0	0	0	0	0	21	0	0	21	0	0	0	4	0	4	35
11:15 AM	0	0	15	0	0	15	0	0	0	0	0	0	0	2	20	0	2	22	0	0	0	1	0	1	38
11:30 AM	0	0	15	1	0	16	0	0	0	0	0	0	0	4	21	0	0	25	0	0	0	0	0	0	41
11:45 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	2	13	0	0	15	0	0	0	1	0	1	23
Hourly Total	0	0	47	1	0	48	0	0	0	0	0	0	0	8	75	0	2	83	0	0	0	6	0	6	137
12:00 PM	0	0	14	0	0	14	0	0	0	0	0	0	0	5	21	0	0	26	0	0	0	3	0	3	43
12:15 PM	0	0	12	0	0	12	0	0	0	0	0	0	0	1	18	0	0	19	0	1	0	0	0	1	32
12:30 PM	0	0	11	0	0	11	0	0	0	0	0	0	0	1	27	0	0	28	0	2	0	3	0	5	44
12:45 PM	0	0	16	0	0	16	0	0	0	0	0	0	0	3	18	0	0	21	0	4	0	8	0	12	49
Hourly Total	0	0	53	0	0	53	0	0	0	0	0	0	0	10	84	0	0	94	0	7	0	14	0	21	168
1:00 PM	0	0	17	1	0	18	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0	0	0	42
1:15 PM	0	0	10	0	0	10	0	0	0	0	0	0	0	2	16	0	0	18	0	0	0	2	0	2	30
1:30 PM	0	0	10	0	0	10	0	0	0	0	0	0	0	0	22	0	0	22	0	1	0	1	0	2	34
1:45 PM	0	0	21	0	0	21	0	0	0	0	0	0	0	2	28	0	0	30	0	0	0	1	0	1	52
Hourly Total	0	0	58	1	0	59	0	0	0	0	0	0	0	4	90	0	0	94	0	1	0	4	0	5	158
2:00 PM	0	0	25	0	0	25	0	0	0	0	0	0	0	0	25	0	0	25	0	0	0	2	0	2	52
2:15 PM	0	0	21	0	0	21	0	0	0	0	0	0	0	1	36	0	0	37	0	0	0	2	0	2	60
2:30 PM	0	0	24	1	0	25	0	0	0	0	0	0	0	0	42	0	0	42	0	0	0	0	0	0	67
2:45 PM	0	0	18	0	0	18	0	0	0	0	0	0	0	0	40	0	0	40	0	0	0	2	0	2	60
Hourly Total	0	0	88	1	0	89	0	0	0	0	0	0	0	1	143	0	0	144	0	0	0	6	0	6	239
3:00 PM	0	0	19	1	0	20	0	0	0	0	0	0	0	6	55	0	0	61	0	0	0	1	0	1	82
3:15 PM	0	0	14	0	0	14	0	0	0	0	0	0	0	0	70	0	0	70	0	0	0	1	0	1	85
3:30 PM	0	0	19	0	0	19	0	0	0	0	0	0	0	2	68	0	0	70	0	0	0	3	0	3	92
3:45 PM	0	0	21	1	0	22	0	0	0	0	0	0	0	1	77	0	0	78	0	0	0	3	0	3	103
Hourly Total	0	0	73	2	0	75	0	0	0	0	0	0	0	9	270	0	0	279	0	0	0	8	0	8	362

**TMC 2471 - CSAH 22 @ 187th Ave NW  
Nowthen MN  
Thursday, August 29, 2024**

Time	Southbound CSAH 22						Westbound 0						Northbound CSAH 22						Eastbound 187th Ave NW						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	0	20	1	0	21	0	0	0	0	0	0	0	2	70	0	0	72	0	0	0	2	0	2	95
4:15 PM	0	0	22	0	0	22	0	0	0	0	0	0	0	4	72	0	0	76	0	0	0	1	0	1	99
4:30 PM	0	0	14	0	0	14	0	0	0	0	0	0	0	2	75	0	0	77	0	1	0	0	0	1	92
4:45 PM	0	0	15	0	0	15	0	0	0	0	0	0	0	1	71	0	0	72	0	0	0	2	0	2	89
Hourly Total	0	0	71	1	0	72	0	0	0	0	0	0	0	9	288	0	0	297	0	1	0	5	0	6	375
5:00 PM	0	0	12	0	0	12	0	0	0	0	0	0	0	3	61	0	0	64	0	0	0	3	0	3	79
5:15 PM	0	0	15	0	0	15	0	0	0	0	0	0	0	3	42	0	0	45	0	0	0	4	0	4	64
5:30 PM	0	0	8	0	0	8	0	0	0	0	0	0	0	0	42	0	0	42	0	0	0	1	0	1	51
5:45 PM	0	0	10	2	0	12	0	0	0	0	0	0	0	1	38	0	0	39	0	0	0	2	0	2	53
Hourly Total	0	0	45	2	0	47	0	0	0	0	0	0	0	7	183	0	0	190	0	0	0	10	0	10	247
6:00 PM	0	0	13	1	0	14	0	0	0	0	0	0	0	2	33	0	0	35	0	0	0	1	0	1	50
6:15 PM	0	0	15	1	0	16	0	0	0	0	0	0	0	1	29	0	0	30	0	0	0	0	0	0	46
6:30 PM	0	0	12	0	0	12	0	0	0	0	0	0	0	0	22	0	0	22	0	0	0	3	0	3	37
6:45 PM	0	0	4	1	0	5	0	0	0	0	0	0	0	1	17	0	0	18	0	0	0	1	0	1	24
Hourly Total	0	0	44	3	0	47	0	0	0	0	0	0	0	4	101	0	0	105	0	0	0	5	0	5	157
7:00 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	6	15	0	0	21	0	0	0	1	0	1	24
7:15 PM	0	0	13	0	0	13	0	0	0	0	0	0	0	2	19	0	0	21	0	0	0	1	0	1	35
7:30 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	1	10	0	0	11	0	0	0	2	0	2	20
7:45 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	2	11	0	0	13	0	0	0	1	0	1	19
Hourly Total	0	0	27	0	0	27	0	0	0	0	0	0	0	11	55	0	0	66	0	0	0	5	0	5	98
8:00 PM	0	0	6	1	0	7	0	0	0	0	0	0	0	2	13	0	0	15	0	0	0	3	0	3	25
8:15 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	2	13	0	0	15	0	0	0	3	0	3	23
8:30 PM	0	0	4	1	0	5	0	0	0	0	0	0	0	1	17	0	0	18	0	1	0	1	0	2	25
8:45 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	2	8	0	0	10	0	0	0	2	0	2	17
Hourly Total	0	0	20	2	0	22	0	0	0	0	0	0	0	7	51	0	0	58	0	1	0	9	0	10	90
9:00 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	2	5	0	0	7	0	0	0	0	0	0	11
9:15 PM	0	0	6	0	0	6	0	0	0	0	0	0	0	3	8	0	0	11	0	0	0	0	0	0	17
9:30 PM	0	0	6	0	0	6	0	0	0	0	0	0	0	1	7	0	0	8	0	0	0	0	0	0	14
9:45 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	8
Hourly Total	0	0	20	0	0	20	0	0	0	0	0	0	0	6	24	0	0	30	0	0	0	0	0	0	50
10:00 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	7	0	0	8	0	1	0	0	0	1	11
10:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	1	0	1	4
10:30 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	1	0	1	9
10:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	2	2	0	0	4	0	0	0	0	0	0	5
Hourly Total	0	0	8	0	0	8	0	0	0	0	0	0	0	4	14	0	0	18	0	1	0	2	0	3	29
11:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	4	0	0	5	0	0	0	0	0	0	6
11:15 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
11:30 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
11:45 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
Hourly Total	0	0	5	0	0	5	0	0	0	0	0	0	0	1	10	0	0	11	0	0	0	0	0	0	16
<b>DAILY TOTAL</b>	<b>0</b>	<b>0</b>	<b>1059</b>	<b>16</b>	<b>2</b>	<b>1075</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>98</b>	<b>1686</b>	<b>0</b>	<b>2</b>	<b>1785</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>103</b>	<b>0</b>	<b>119</b>	<b>2979</b>
<b>Cars</b>	<b>0</b>	<b>0</b>	<b>868</b>	<b>16</b>	<b>2</b>	<b>884</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>87</b>	<b>1490</b>	<b>0</b>	<b>2</b>	<b>1578</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>96</b>	<b>0</b>	<b>108</b>	<b>2570</b>
<b>Heavy Vehicles</b>	<b>0</b>	<b>0</b>	<b>191</b>	<b>0</b>	<b>0</b>	<b>191</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>196</b>	<b>0</b>	<b>0</b>	<b>207</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>11</b>	<b>409</b>
<b>Heavy Vehicle %</b>	<b>0.00%</b>	<b>0.00%</b>	<b>18.04%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>17.77%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>11.22%</b>	<b>11.63%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>11.60%</b>	<b>0.00%</b>	<b>25.00%</b>	<b>0.00%</b>	<b>6.80%</b>	<b>0.00%</b>	<b>9.24%</b>	<b>13.73%</b>

**TMC 2471 - CSAH 22 @ 187th Ave NW  
Nowthen MN  
Thursday, August 29, 2024**

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL							
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total								
7:15 AM	0	0	32	0	0	32	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	1	0	1	0	0	0	1	0	0	1	47
7:30 AM	0	0	34	0	0	34	0	0	0	0	0	0	0	1	14	0	0	15	0	1	0	2	0	3	0	0	0	1	0	0	1	52
7:45 AM	0	0	31	0	0	31	0	0	0	0	0	0	0	1	14	0	0	15	0	0	0	1	0	1	0	0	0	1	0	0	1	47
8:00 AM	0	0	28	0	0	28	0	0	0	0	0	0	0	1	17	0	0	18	0	1	0	3	0	4	0	0	0	0	0	0	0	50
Peak Hour Total PHF	0.000	0.000	125	0.000	0.000	0.919	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	59	0.868	0.000	0.861	0.000	0.500	0.000	0.7	0.000	0.563	0.000	0.000	0.000	0.563	0.000	0.563	0.942	

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	0	19	0	0	19	0	0	0	0	0	0	0	2	68	0	0	70	0	0	0	3	0	3	0	0	0	3	0	0	3	92
3:45 PM	0	0	21	1	0	22	0	0	0	0	0	0	0	1	77	0	0	78	0	0	0	3	0	3	0	0	0	3	0	0	3	103
4:00 PM	0	0	20	1	0	21	0	0	0	0	0	0	0	2	70	0	0	72	0	0	0	2	0	2	0	0	0	2	0	0	2	95
4:15 PM	0	0	22	0	0	22	0	0	0	0	0	0	0	4	72	0	0	76	0	0	0	1	0	1	0	0	0	1	0	0	1	99
Peak Hour Total PHF	0.000	0.000	82	0.500	0.000	0.955	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.563	93	0.932	0.000	0.949	0.000	0.000	0.000	0.750	0.000	0.750	0.000	0.000	0.000	0.750	0.000	0.750	0.944	

Total Vehicles On Leg				2777			
Vehicles Entering Intersection				1075			
Vehicles Exiting Intersection				1702			
<b>Southbound</b>							
Cars	16	868	0	0	0	2	
Heavy	0	191	0	0	0	0	
<b>Total</b>	<b>16</b>	<b>1059</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	

Total Vehicles on Leg 233	Eastbound	Vehicles Entering Intersection	119
		Vehicles Exiting Intersection	114
		Cars	0
		Heavy	0
		Total	0
		Cars	12
		Heavy	4
		Total	16
		Cars	0
		Heavy	0
		Total	0
		Cars	96
		Heavy	7
		Total	103

Total Vehicles on Leg 0	Westbound	Vehicles Entering Intersection	0
		Vehicles Exiting Intersection	0
		Cars	0
		Heavy	0
		Total	0
		Cars	0
		Heavy	0
		Total	0
		Cars	0
		Heavy	0
		Total	0

Total Vehicles On Leg				2948			
Vehicles Entering Intersection				1785			
Vehicles Exiting Intersection				1163			
<b>Northbound</b>							
Cars	2	1	87	1490	0		
Heavy	0	0	11	196	0		
<b>Total</b>	<b>2</b>	<b>1</b>	<b>98</b>	<b>1686</b>	<b>0</b>		







# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2471

Study Date : 09/04/2024

## Signal Warrants - Summary

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### Major Street Approaches

Northbound: CSAH 22

Number of Lanes : 1

Total Approach Volume: 1,785

Southbound: CSAH 22

Number of Lanes : 1

Total Approach Volume: 1,059

### Minor Street Approaches

Eastbound: 187th Ave NW

Number of Lanes : 1

Total Approach Volume: 119

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### Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 0 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 0 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.....Not 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.....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 2471

Study Date : 09/04/2024

## Warrant 1A - Minimum Volumes

#### Description

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

#### Summary

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

#### Site Data Required

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

#### Volume Requirements

Rural Factor of 70 % applied  
Veh/Hr Major = **350**  
  
Veh/Hr Minor = **105**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	303	+	77	=	380	7	0	No
15:30 - 16:30	296	+	82	=	378	9	0	No
16:00 - 17:00	297	+	71	=	368	6	0	No
15:15 - 16:15	290	+	74	=	364	9	0	No
16:15 - 17:15	289	+	63	=	352	7	0	No
15:00 - 16:00	279	+	73	=	352	8	0	No
16:30 - 17:30	258	+	56	=	314	10	0	No
14:45 - 15:45	241	+	70	=	311	7	0	No
14:30 - 15:30	213	+	75	=	288	4	0	No
16:45 - 17:45	223	+	50	=	273	10	0	No
14:15 - 15:15	180	+	82	=	262	5	0	No
17:00 - 18:00	190	+	45	=	235	10	0	No
14:00 - 15:00	144	+	88	=	232	6	0	No
13:45 - 14:45	134	+	91	=	225	5	0	No
17:15 - 18:15	161	+	46	=	207	8	0	No
17:30 - 18:30	146	+	46	=	192	4	0	No
13:30 - 14:30	114	+	77	=	191	7	0	No
07:15 - 08:15	62	+	125	=	187	9	0	No
07:00 - 08:00	57	+	124	=	181	6	0	No
17:45 - 18:45	126	+	50	=	176	6	0	No
06:45 - 07:45	54	+	119	=	173	6	0	No
07:30 - 08:30	65	+	105	=	170	10	0	No
06:30 - 07:30	47	+	123	=	170	4	0	No
13:15 - 14:15	95	+	66	=	161	7	0	No
06:15 - 07:15	41		117		158	4	0	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2471

Study Date : 09/04/2024

## Warrant 1B - Interruption of Continuous Traffic

#### Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

#### Summary

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

#### Site Data Required

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

#### Volume Requirements

Rural Factor of 70 % applied  
Veh/Hr Major = **525**  
  
Veh/Hr Minor = **52**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	<b>CSAH 22</b>					<b>187th Ave NW</b>		
15:45 - 16:45	303	+	77	=	380	7	0	No
15:30 - 16:30	296	+	82	=	378	9	0	No
16:00 - 17:00	297	+	71	=	368	6	0	No
15:15 - 16:15	290	+	74	=	364	9	0	No
16:15 - 17:15	289	+	63	=	352	7	0	No
15:00 - 16:00	279	+	73	=	352	8	0	No
16:30 - 17:30	258	+	56	=	314	10	0	No
14:45 - 15:45	241	+	70	=	311	7	0	No
14:30 - 15:30	213	+	75	=	288	4	0	No
16:45 - 17:45	223	+	50	=	273	10	0	No
14:15 - 15:15	180	+	82	=	262	5	0	No
17:00 - 18:00	190	+	45	=	235	10	0	No
14:00 - 15:00	144	+	88	=	232	6	0	No
13:45 - 14:45	134	+	91	=	225	5	0	No
17:15 - 18:15	161	+	46	=	207	8	0	No
17:30 - 18:30	146	+	46	=	192	4	0	No
13:30 - 14:30	114	+	77	=	191	7	0	No
07:15 - 08:15	62	+	125	=	187	9	0	No
07:00 - 08:00	57	+	124	=	181	6	0	No
17:45 - 18:45	126	+	50	=	176	6	0	No
06:45 - 07:45	54	+	119	=	173	6	0	No
07:30 - 08:30	65	+	105	=	170	10	0	No
06:30 - 07:30	47	+	123	=	170	4	0	No
13:15 - 14:15	95	+	66	=	161	7	0	No
06:15 - 07:15	41		117		158	4	0	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2471

Study Date : 09/04/2024

## Warrant 1C Combination of Warrants

#### Description

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

#### Summary

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

#### Site Data Required

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

#### Volume Requirements

Rural Factor of 70% applied  
Warrant 1A 1B  
Veh/Hr Major = **280 420**  
  
Veh/Hr Minor = **84 42**

#### Major Road CSAH 22

#### Minor Road 187th Ave NW

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
15:45 - 16:45	303	+	77	=	380	7	0	No
15:30 - 16:30	296	+	82	=	378	9	0	No
16:00 - 17:00	297	+	71	=	368	6	0	No
15:15 - 16:15	290	+	74	=	364	9	0	No
15:00 - 16:00	279	+	73	=	352	8	0	No
16:15 - 17:15	289	+	63	=	352	7	0	No
16:30 - 17:30	258	+	56	=	314	10	0	No
14:45 - 15:45	241	+	70	=	311	7	0	No
14:30 - 15:30	213	+	75	=	288	4	0	No
16:45 - 17:45	223	+	50	=	273	10	0	No
14:15 - 15:15	180	+	82	=	262	5	0	No
17:00 - 18:00	190		45		235	10	0	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:45 - 16:45	303	+	77	=	380	7	0	No
15:30 - 16:30	296	+	82	=	378	9	0	No
16:00 - 17:00	297	+	71	=	368	6	0	No
15:15 - 16:15	290	+	74	=	364	9	0	No
15:00 - 16:00	279	+	73	=	352	8	0	No
16:15 - 17:15	289	+	63	=	352	7	0	No
16:30 - 17:30	258	+	56	=	314	10	0	No
14:45 - 15:45	241	+	70	=	311	7	0	No
14:30 - 15:30	213	+	75	=	288	4	0	No
16:45 - 17:45	223	+	50	=	273	10	0	No
14:15 - 15:15	180	+	82	=	262	5	0	No
17:00 - 18:00	190		45		235	10	0	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2471

Study Date : 09/04/2024

## Warrant 2 - Four Hour Volumes

#### Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

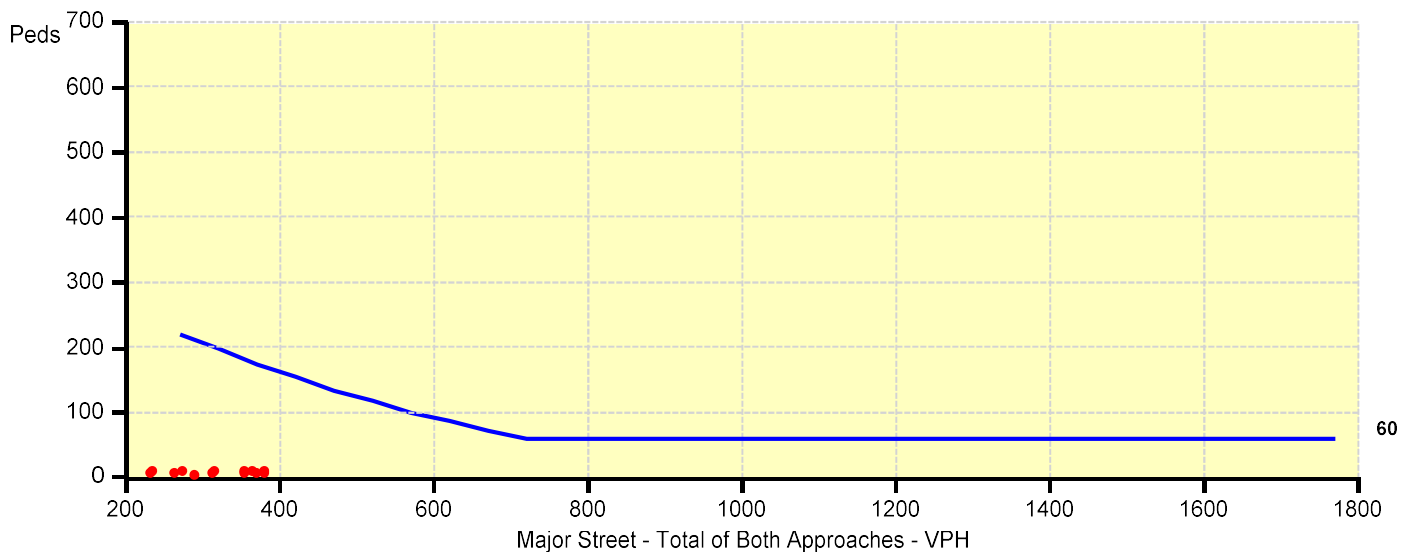
#### Summary

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

#### Site Data Required

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

Time	Major Road CSAH 22				Total	Minor Road 187th Ave NW		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	303	+	77	=	380	7	0	No
15:30 - 16:30	296	+	82	=	378	9	0	No
16:00 - 17:00	297	+	71	=	368	6	0	No
15:15 - 16:15	290	+	74	=	364	9	0	No
16:15 - 17:15	289	+	63	=	352	7	0	No
15:00 - 16:00	279	+	73	=	352	8	0	No
16:30 - 17:30	258	+	56	=	314	10	0	No
14:45 - 15:45	241	+	70	=	311	7	0	No
14:30 - 15:30	213	+	75	=	288	4	0	No
16:45 - 17:45	223	+	50	=	273	10	0	No
14:15 - 15:15	180	+	82	=	262	5	0	No
17:00 - 18:00	190		45		235	10	0	No



# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2471

Study Date : 09/04/2024

## Warrant 3B - Peak Hour Volumes

### Description

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

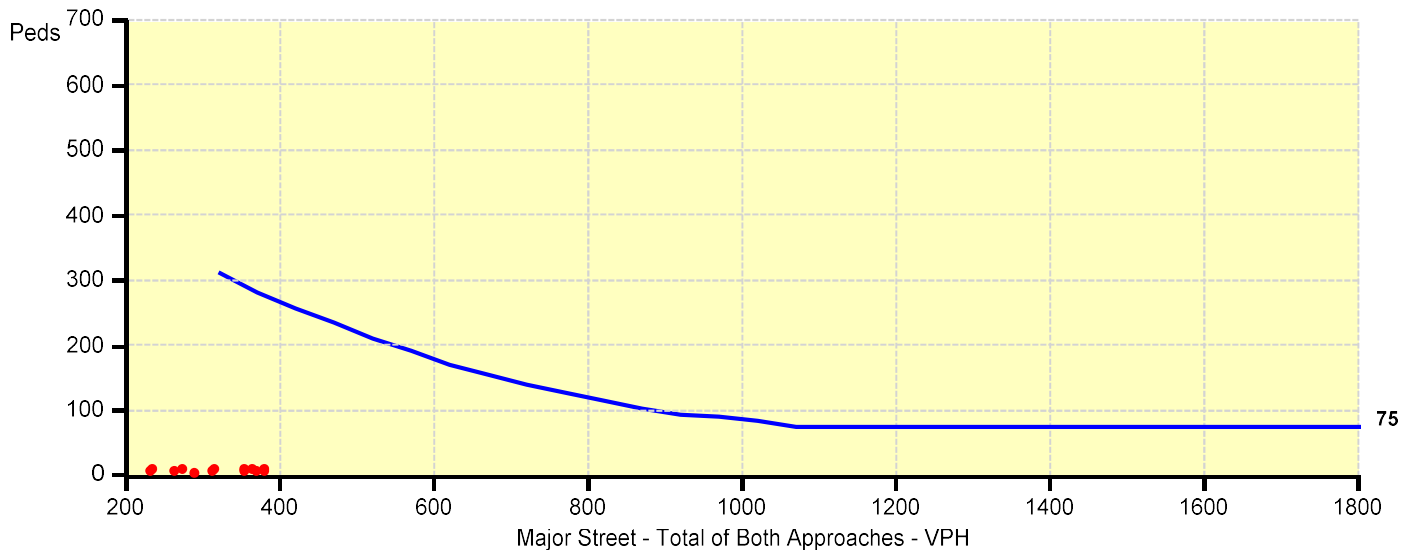
### Summary

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

### Site Data Required

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

Time	Major Road CSAH 22				Total	Minor Road 187th Ave NW		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	303	+	77	=	380	7	0	No
15:30 - 16:30	296	+	82	=	378	9	0	No
16:00 - 17:00	297	+	71	=	368	6	0	No
15:15 - 16:15	290	+	74	=	364	9	0	No
16:15 - 17:15	289	+	63	=	352	7	0	No
15:00 - 16:00	279	+	73	=	352	8	0	No
16:30 - 17:30	258	+	56	=	314	10	0	No
14:45 - 15:45	241	+	70	=	311	7	0	No
14:30 - 15:30	213	+	75	=	288	4	0	No
16:45 - 17:45	223	+	50	=	273	10	0	No
14:15 - 15:15	180	+	82	=	262	5	0	No
17:00 - 18:00	190		45		235	10	0	No



# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2471

Study Date : 09/04/2024

## Multiway Stop Warrants - Summary

### Major Street Approaches

**Northbound: CSAH 22**  
 Number of Lanes : 1  
 Total Approach Volume: 1,785

**Southbound: CSAH 22**  
 Number of Lanes : 1  
 Total Approach Volume: 1,059

### Minor Street Approaches

**Eastbound: 187th Ave NW**  
 Number of Lanes : 1  
 Total Approach Volume: 119

**Westbound:**  
 Number of Lanes : 2+  
 Total Approach Volume: 0

### 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>Not Satisfied</b>
Average of 8 highest hours is less than 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 is less than volume criteria.	

### Criteria C Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
15:30 - 16:30	378	231.9	9	08.5	210	140	No
16:30 - 17:30	314		10				
14:30 - 15:30	288		4				
13:30 - 14:30	191		7				
17:30 - 18:30	192		4				
07:15 - 08:15	187		9				
12:00 - 13:00	147		21				
06:15 - 07:15	158		4				
10:45 - 11:45	148		5				
09:30 - 10:30	128		12				
08:30 - 09:30	114		7				
18:30 - 19:30	113		6				

### Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
15:30 - 16:30	378	232.0	9	06.5	240	160	No
16:30 - 17:30	314		10				
14:30 - 15:30	288		4				
17:30 - 18:30	192		4				
13:30 - 14:30	191		7				
07:15 - 08:15	187		9				
06:15 - 07:15	158		4				
10:45 - 11:45	148		5				
12:00 - 13:00	147		21				
09:30 - 10:30	128		12				
08:30 - 09:30	114		7				
18:30 - 19:30	113		6				