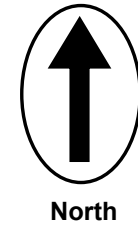


Date: 02/06/24

Count Number: TMC 2448

Location: CR 53
@ 121st Ave

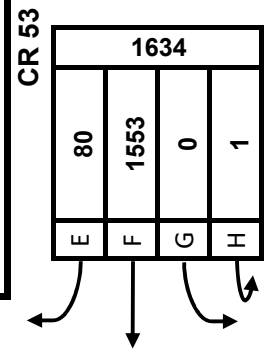
Collection Period: 24 HR



North

3230

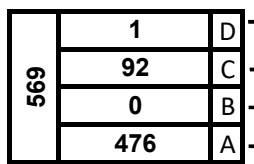
#2



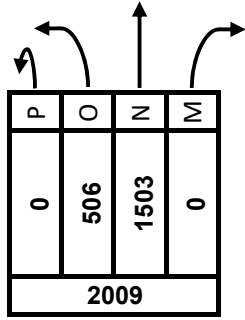
587

1156

#1



121st Ave



#4

4038

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

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

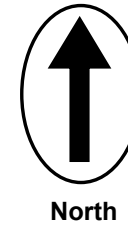
Date: 02/06/24

Count Number: TMC 2448

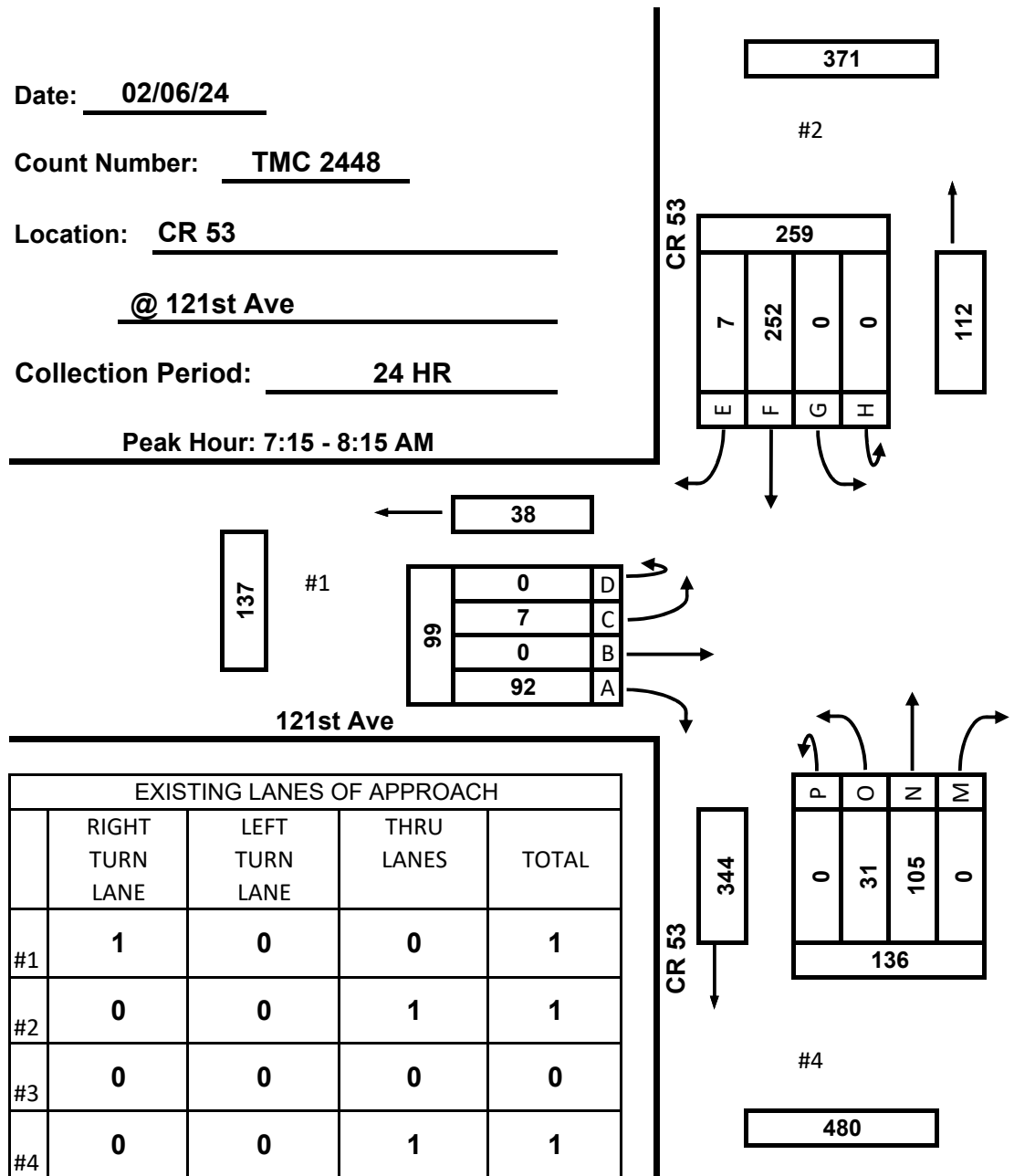
Location: CR 53
@ 121st Ave

Collection Period: 24 HR

Peak Hour: 7:15 - 8:15 AM



North



Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

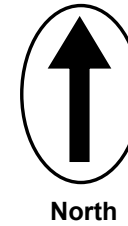
Date: 02/06/24

Count Number: TMC 2448

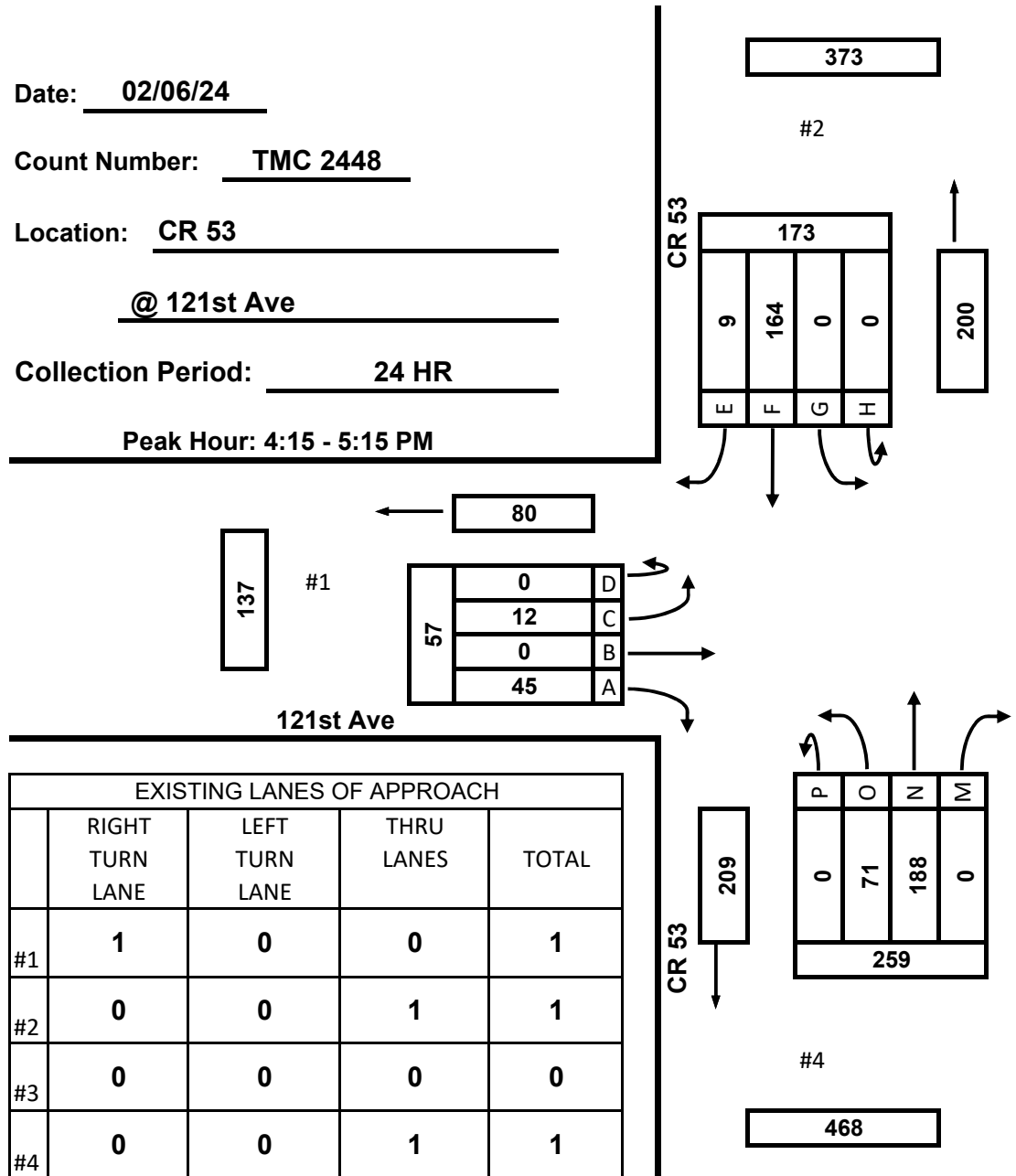
Location: CR 53
@ 121st Ave

Collection Period: 24 HR

Peak Hour: 4:15 - 5:15 PM



North



Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

**TMC 2448 - CR 53 @ 121st Ave
Lino Lakes MN
Tuesday, February 6, 2024**

Time	Southbound CR 53						Westbound None						Northbound CR 53						Eastbound 121st Ave						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	1	0	1	0	0	0	0	0	0	1
12:15 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	0	0	0	0	0	0	2
12:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
12:45 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	0	0	0	0	0	0	2
Hourly Total	0	0	4	0	0	4	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	7
1:00 AM	0	0	0	0	0	0	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
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	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	0	0	0	0	0	0
1:45 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	0	0	0	0	0	0	1
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	2	0	0	0	2	0	0	0	0	0	0	4
2:00 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	0	0	0	0	0	0	1
2:15 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	0	0	0	0	0	0	2
2:30 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	0	0	0	0	0	0	2
2:45 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	0	0	0	0	0	0	2
Hourly Total	0	0	3	0	0	3	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	7
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	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	0	0	0	0	0	0
3:30 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	0	0	0	0	0	0	2
3:45 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	0	0	0	0	0	0	1
Hourly Total	0	0	3	0	0	3	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
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	0	0	0	0	0	0	2
4:15 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	0	0	0	0	0	0	3
4:30 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	0	0	0	0	0	0	2
4:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2	0	2	0	0	0	0	0	0	6
Hourly Total	0	0	7	0	0	7	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	2	0	2	0	0	0	0	0	0	13
5:00 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	8
5:15 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	5	0	0	5	0	1	0	2	0	3	0	0	0	0	0	0	12
5:30 AM	0	0	8	1	0	9	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	1	0	1	0	0	0	0	0	0	13
5:45 AM	0	0	14	0	0	14	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	6	0	6	0	0	0	0	0	0	22
Hourly Total	0	0	32	1	0	33	0	0	0	0	0	0	0	1	10	0	0	11	0	2	0	9	0	11	0	0	0	0	0	0	55
6:00 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	3	5	0	0	8	0	0	0	1	0	1	0	0	0	0	0	0	21
6:15 AM	0	0	11	0	0	11	0	0	0	0	0	0	0	1	7	0	0	8	0	1	0	2	0	3	0	0	0	0	0	0	22
6:30 AM	0	0	22	1	0	23	0	0	0	0	0	0	0	2	12	0	0	14	0	0	0	3	0	3	0	0	0	0	0	0	40
6:45 AM	0	0	34	0	0	34	0	0	0	0	0	0	0	5	12	0	0	17	0	2	0	4	0	6	0	0	0	0	0	0	57
Hourly Total	0	0	79	1	0	80	0	0	0	0	0	0	0	11	36	0	0	47	0	3	0	10	0	13	0	0	0	0	0	0	140
7:00 AM	0	0	36	1	0	37	0	0	0	0	0	0	0	1	24	0	0	25	0	1	0	12	0	13	0	0	0	0	0	0	75
7:15 AM	0	0	47	2	0	49	0	0	0	0	0	0	0	9	12	0	0	21	0	2	0	16	0	18	0	0	0	0	0	0	88
7:30 AM	0	0	88	1	0	89	0	0	0	0	0	0	0	3	20	0	0	23	0	0	0	43	0	43	0	0	0	0	0	0	155
7:45 AM	0	0	95	2	0	97	0	0	0	0	0	0	0	9	33	0	0	42	0	1	0	25	0	26	0	0	0	0	0	0	165
Hourly Total	0	0	266	6	0	272	0	0	0	0	0	0	0	22	89	0	0	111	0	4	0	96	0	100	0	0	0	0	0	0	483

**TMC 2448 - CR 53 @ 121st Ave
Lino Lakes MN
Tuesday, February 6, 2024**

Time	Southbound CR 53						Westbound None						Northbound CR 53						Eastbound 121st Ave						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	22	2	0	24	0	0	0	0	0	0	0	10	40	0	0	50	0	4	0	8	0	12	86
8:15 AM	0	0	21	1	0	22	0	0	0	0	0	0	0	6	20	0	0	26	0	0	0	9	0	9	57
8:30 AM	0	0	27	0	0	27	0	0	0	0	0	0	0	6	13	0	0	19	0	1	0	1	0	2	48
8:45 AM	0	0	52	0	0	52	0	0	0	0	0	0	0	3	11	0	0	14	0	1	0	17	0	18	84
Hourly Total	0	0	122	3	0	125	0	0	0	0	0	0	0	25	84	0	0	109	0	6	0	35	0	41	275
9:00 AM	0	0	25	1	0	26	0	0	0	0	0	0	0	13	32	0	0	45	0	3	0	14	0	17	88
9:15 AM	0	0	15	1	0	16	0	0	0	0	0	0	0	7	17	0	0	24	0	2	0	5	0	7	47
9:30 AM	0	0	21	2	0	23	0	0	0	0	0	0	0	7	22	0	0	29	0	0	0	5	0	5	57
9:45 AM	0	0	19	1	0	20	0	0	0	0	0	0	0	2	10	0	0	12	0	2	0	6	0	8	40
Hourly Total	0	0	80	5	0	85	0	0	0	0	0	0	0	29	81	0	0	110	0	7	0	30	0	37	232
10:00 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	3	18	0	0	21	0	0	0	7	0	7	35
10:15 AM	0	0	10	3	0	13	0	0	0	0	0	0	0	3	8	0	0	11	0	0	0	2	0	2	26
10:30 AM	0	0	8	1	0	9	0	0	0	0	0	0	0	5	16	0	0	21	0	0	0	3	0	3	33
10:45 AM	0	0	15	0	0	15	0	0	0	0	0	0	0	7	16	0	0	23	0	1	0	2	0	3	41
Hourly Total	0	0	40	4	0	44	0	0	0	0	0	0	0	18	58	0	0	76	0	1	0	14	0	15	135
11:00 AM	0	0	12	1	0	13	0	0	0	0	0	0	0	4	16	0	0	20	0	1	0	1	0	2	35
11:15 AM	0	0	12	1	0	13	0	0	0	0	0	0	0	3	12	0	0	15	0	1	0	8	0	9	37
11:30 AM	0	0	20	1	0	21	0	0	0	0	0	0	0	9	22	0	0	31	0	0	0	6	0	6	58
11:45 AM	0	0	13	0	0	13	0	0	0	0	0	0	0	0	13	0	0	13	0	5	0	2	0	7	33
Hourly Total	0	0	57	3	0	60	0	0	0	0	0	0	0	16	63	0	0	79	0	7	0	17	0	24	163
12:00 PM	0	0	12	1	0	13	0	0	0	0	0	0	0	7	8	0	0	15	0	0	0	2	0	2	30
12:15 PM	0	0	20	0	0	20	0	0	0	0	0	0	0	2	14	0	0	16	0	0	0	2	0	2	38
12:30 PM	0	0	11	1	0	12	0	0	0	0	0	0	0	4	20	0	0	24	0	1	0	4	0	5	41
12:45 PM	0	0	13	0	0	13	0	0	0	0	0	0	0	4	15	0	0	19	0	0	0	5	0	5	37
Hourly Total	0	0	56	2	0	58	0	0	0	0	0	0	0	17	57	0	0	74	0	1	0	13	0	14	146
1:00 PM	0	0	18	1	0	19	0	0	0	0	0	0	0	7	17	0	0	24	0	1	0	1	0	2	45
1:15 PM	0	0	11	1	0	12	0	0	0	0	0	0	0	0	23	0	0	23	0	1	0	5	0	6	41
1:30 PM	0	0	10	1	0	11	0	0	0	0	0	0	0	3	24	0	0	27	0	1	0	5	0	6	44
1:45 PM	0	0	22	0	0	22	0	0	0	0	0	0	0	5	18	0	0	23	0	0	0	3	0	3	48
Hourly Total	0	0	61	3	0	64	0	0	0	0	0	0	0	15	82	0	0	97	0	3	0	14	0	17	178
2:00 PM	0	0	19	1	0	20	0	0	0	0	0	0	0	3	26	0	0	29	0	1	0	5	0	6	55
2:15 PM	0	0	23	2	0	25	0	0	0	0	0	0	0	3	18	0	0	21	0	2	0	6	0	8	54
2:30 PM	0	0	22	2	0	24	0	0	0	0	0	0	0	6	22	0	0	28	0	0	0	11	0	11	63
2:45 PM	0	0	21	2	0	23	0	0	0	0	0	0	0	14	37	0	0	51	0	1	0	7	0	8	82
Hourly Total	0	0	85	7	0	92	0	0	0	0	0	0	0	26	103	0	0	129	0	4	0	29	0	33	254
3:00 PM	0	0	23	1	0	24	0	0	0	0	0	0	0	21	53	0	0	74	0	2	0	17	0	19	117
3:15 PM	0	0	41	0	0	41	0	0	0	0	0	0	0	16	22	0	0	38	0	0	0	13	0	13	92
3:30 PM	0	0	32	2	0	34	0	0	0	0	0	0	0	11	32	0	0	43	0	1	0	15	0	16	93
3:45 PM	0	0	25	0	0	25	0	0	0	0	0	0	0	29	54	0	0	83	0	3	0	8	0	11	119
Hourly Total	0	0	121	3	0	124	0	0	0	0	0	0	0	77	161	0	0	238	0	6	0	53	0	59	421

**TMC 2448 - CR 53 @ 121st Ave
Lino Lakes MN
Tuesday, February 6, 2024**

Time	Southbound CR 53						Westbound None						Northbound CR 53						Eastbound 121st Ave						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	34	1	0	35	0	0	0	0	0	0	0	16	46	0	0	62	0	0	0	15	0	15	112
4:15 PM	0	0	45	0	0	45	0	0	0	0	0	0	0	22	45	0	0	67	0	4	0	8	0	12	124
4:30 PM	0	0	40	2	0	42	0	0	0	0	0	0	0	17	51	0	0	68	0	3	0	10	0	13	123
4:45 PM	0	0	43	5	0	48	0	0	0	0	0	0	0	13	39	0	0	52	0	1	0	17	0	18	118
Hourly Total	0	0	162	8	0	170	0	0	0	0	0	0	0	68	181	0	0	249	0	8	0	50	0	58	477
5:00 PM	0	0	36	2	0	38	0	0	0	0	0	0	0	19	53	0	0	72	0	4	0	10	0	14	124
5:15 PM	0	0	32	7	0	39	0	0	0	0	0	0	0	21	51	0	0	72	0	2	0	10	0	12	123
5:30 PM	0	0	27	0	0	27	0	0	0	0	0	0	0	14	42	0	0	56	0	3	0	7	0	10	93
5:45 PM	0	0	30	1	0	31	0	0	0	0	0	0	0	4	32	0	0	36	0	1	0	15	0	16	83
Hourly Total	0	0	125	10	0	135	0	0	0	0	0	0	0	58	178	0	0	236	0	10	0	42	0	52	423
6:00 PM	0	0	29	1	0	30	0	0	0	0	0	0	0	17	33	0	0	50	0	5	0	4	0	9	89
6:15 PM	0	0	16	7	0	23	0	0	0	0	0	0	0	3	21	0	0	24	0	2	0	6	0	8	55
6:30 PM	0	0	25	4	0	29	0	0	0	0	0	0	0	6	20	0	0	26	0	4	0	2	0	6	61
6:45 PM	0	0	22	1	0	23	0	0	0	0	0	0	0	6	20	0	0	26	0	1	0	5	0	6	55
Hourly Total	0	0	92	13	0	105	0	0	0	0	0	0	0	32	94	0	0	126	0	12	0	17	0	29	260
7:00 PM	0	0	22	1	0	23	0	0	0	0	0	0	0	15	23	0	0	38	0	2	0	9	0	11	72
7:15 PM	0	0	19	3	0	22	0	0	0	0	0	0	0	9	24	0	0	33	0	0	0	8	0	8	63
7:30 PM	0	0	11	0	0	11	0	0	0	0	0	0	0	14	23	0	0	37	0	2	0	5	0	7	55
7:45 PM	0	0	8	1	0	9	0	0	0	0	0	0	0	3	13	0	0	16	0	4	0	4	0	8	33
Hourly Total	0	0	60	5	0	65	0	0	0	0	0	0	0	41	83	0	0	124	0	8	0	26	0	34	223
8:00 PM	0	0	14	1	0	15	0	0	0	0	0	0	0	8	14	0	0	22	0	0	0	3	0	3	40
8:15 PM	1	0	9	2	0	12	0	0	0	0	0	0	0	9	23	0	0	32	0	2	0	0	0	2	46
8:30 PM	0	0	10	0	0	10	0	0	0	0	0	0	0	3	13	0	0	16	0	1	0	0	0	1	27
8:45 PM	0	0	10	1	0	11	0	0	0	0	0	0	0	3	7	0	0	10	0	3	0	3	0	6	27
Hourly Total	1	0	43	4	0	48	0	0	0	0	0	0	0	23	57	0	0	80	0	6	0	6	0	12	140
9:00 PM	0	0	6	1	0	7	0	0	0	0	0	0	0	11	13	0	0	24	0	0	0	2	0	2	33
9:15 PM	0	0	9	0	0	9	0	0	0	0	0	0	0	2	14	0	0	16	0	0	0	1	0	1	26
9:30 PM	0	0	8	0	0	8	0	0	0	0	0	0	0	2	11	0	0	13	0	0	0	2	0	2	23
9:45 PM	0	0	8	1	0	9	0	0	0	0	0	0	0	2	10	0	0	12	0	0	0	0	0	0	21
Hourly Total	0	0	31	2	0	33	0	0	0	0	0	0	0	17	48	0	0	65	0	0	0	5	0	5	103
10:00 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	3	5	0	0	8	0	2	0	0	0	2	14
10:15 PM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	1	0	1	11
10:30 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	5	0	0	6	1	0	0	1	0	2	11
10:45 PM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	8
Hourly Total	0	0	19	0	0	19	0	0	0	0	0	0	0	4	15	0	0	19	1	2	0	3	0	6	44
11:00 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	9
11:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	3	2	0	0	5	0	0	0	1	0	1	7
11:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	3	0	3	9
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1
Hourly Total	0	0	5	0	0	5	0	0	0	0	0	0	0	4	13	0	0	17	0	0	0	4	0	4	26
DAILY TOTAL	1	0	1553	80	0	1634	0	0	0	0	0	0	0	506	1503	0	0	2009	1	92	0	476	0	569	4212
Cars	1	0	1532	74	0	1607	0	0	0	0	0	0	0	485	1484	0	0	1969	1	86	0	461	0	548	4124
Heavy Vehicles	0	0	21	6	0	27	0	0	0	0	0	0	0	21	19	0	0	40	0	6	0	15	0	21	88
Heavy Vehicle %	0.00%	0.00%	1.35%	7.50%	0.00%	1.65%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.15%	1.26%	0.00%	0.00%	1.99%	0.00%	6.52%	0.00%	3.15%	0.00%	3.69%	2.09%

**TMC 2448 - CR 53 @ 121st Ave
Lino Lakes MN
Tuesday, February 6, 2024**

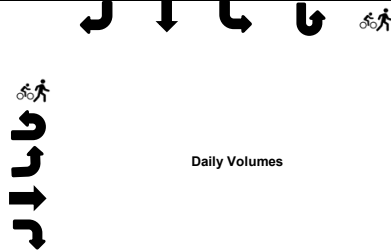
AM Peak Hour

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
7:15 AM	0	0	47	2	0	49	0	0	0	0	0	0	0	9	12	0	0	21	0	2	0	16	0	18	88
7:30 AM	0	0	88	1	0	89	0	0	0	0	0	0	0	3	20	0	0	23	0	0	0	43	0	43	155
7:45 AM	0	0	95	2	0	97	0	0	0	0	0	0	0	9	33	0	0	42	0	1	0	25	0	26	165
8:00 AM	0	0	22	2	0	24	0	0	0	0	0	0	0	10	40	0	0	50	0	4	0	8	0	12	86
Peak Hour Total	0	0	252	7	0	259	0	0	0	0	0	0	0	31	105	0	0	136	0	7	0	92	0	99	494
PHF	0.000	0.000	0.663	0.875	0.000	0.668	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.775	0.656	0.000	0.000	0.680	0.000	0.438	0.000	0.535	0.000	0.576	0.748

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	
4:15 PM	0	0	45	0	0	45	0	0	0	0	0	0	0	22	45	0	0	67	0	4	0	8	0	12	124
4:30 PM	0	0	40	2	0	42	0	0	0	0	0	0	0	17	51	0	0	68	0	3	0	10	0	13	123
4:45 PM	0	0	43	5	0	48	0	0	0	0	0	0	0	13	39	0	0	52	0	1	0	17	0	18	118
5:00 PM	0	0	36	2	0	38	0	0	0	0	0	0	0	19	53	0	0	72	0	4	0	10	0	14	124
Peak Hour Total	0	0	164	9	0	173	0	0	0	0	0	0	0	71	188	0	0	259	0	12	0	45	0	57	489
PHF	0.000	0.000	0.911	0.450	0.000	0.901	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.807	0.887	0.000	0.000	0.899	0.000	0.750	0.000	0.662	0.000	0.792	0.986

Total Vehicles On Leg		3230	
Vehicles Entering Intersection	1634	Vehicles Exiting Intersection	1596
Southbound			
Cars	74	1532	0
Heavy	6	21	0
Total	80	1553	0



Total Vehicles on Leg 1156	Vehicles Entering Intersection 569	Eastbound	Cars	Heavy	Total
			0	0	0
	1		0	1	
	86		6	92	
	0		0	0	
Vehicles Exiting Intersection 587	461	15	476		

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

Cars	0	0	485	1484	0
Heavy	0	0	21	19	0
Total	0	0	506	1503	0
Northbound					
Vehicles Entering Intersection	2009		Vehicles Exiting Intersection	2029	
Total Vehicles On Leg	4038				

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2448

Study Date : 02/14/2024

Signal Warrants - Summary

Major Street Approaches

Northbound: CR 53

Number of Lanes : 1

Total Approach Volume: 2,009

Southbound: CR 53

Number of Lanes : 1

Total Approach Volume: 1,634

Minor Street Approaches

Eastbound: 121st Ave

Number of Lanes : 1

Total Approach Volume: 569

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 1 hours, 8 are needed

Required 1B volumes reached for 1 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 2448

Study Date : 02/14/2024

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	
	CR 53					121st Ave		
16:15 - 17:15	259	+	173	=	432	57	0	No
16:30 - 17:30	264	+	167	=	431	57	0	No
15:45 - 16:45	280	+	147	=	427	51	0	No
16:00 - 17:00	249	+	170	=	419	58	0	No
16:45 - 17:45	252	+	152	=	404	54	0	No
07:15 - 08:15	136	+	259	=	395	99	0	No
15:30 - 16:30	255	+	139	=	394	54	0	No
07:00 - 08:00	111	+	272	=	383	100	0	No
07:30 - 08:30	141	+	232	=	373	90	0	No
17:00 - 18:00	236	+	135	=	371	52	0	No
15:00 - 16:00	238	+	124	=	362	59	0	No
15:15 - 16:15	226	+	135	=	361	55	0	No
17:15 - 18:15	214	+	127	=	341	47	0	No
14:45 - 15:45	206	+	122	=	328	56	0	No
07:45 - 08:45	137	+	170	=	307	49	0	No
14:30 - 15:30	191	+	112	=	303	51	0	No
06:45 - 07:45	86	+	209	=	295	80	0	No
17:30 - 18:30	166	+	111	=	277	43	0	No
14:15 - 15:15	174	+	96	=	270	46	0	No
17:45 - 18:45	136	+	113	=	249	39	0	No
08:00 - 09:00	109	+	125	=	234	41	0	No
18:00 - 19:00	126	+	105	=	231	29	0	No
08:15 - 09:15	104	+	127	=	231	46	0	No
08:45 - 09:45	112	+	117	=	229	47	0	No
08:30 - 09:30	102		121		223	44	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2448

Study Date : 02/14/2024

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	
	CR 53					121st Ave		
16:15 - 17:15	259	+	173	=	432	57	0	No
16:30 - 17:30	264	+	167	=	431	57	0	No
15:45 - 16:45	280	+	147	=	427	51	0	No
16:00 - 17:00	249	+	170	=	419	58	0	No
16:45 - 17:45	252	+	152	=	404	54	0	No
07:15 - 08:15	136	+	259	=	395	99	0	No
15:30 - 16:30	255	+	139	=	394	54	0	No
07:00 - 08:00	111	+	272	=	383	100	0	No
07:30 - 08:30	141	+	232	=	373	90	0	No
17:00 - 18:00	236	+	135	=	371	52	0	No
15:00 - 16:00	238	+	124	=	362	59	0	No
15:15 - 16:15	226	+	135	=	361	55	0	No
17:15 - 18:15	214	+	127	=	341	47	0	No
14:45 - 15:45	206	+	122	=	328	56	0	No
07:45 - 08:45	137	+	170	=	307	49	0	No
14:30 - 15:30	191	+	112	=	303	51	0	No
06:45 - 07:45	86	+	209	=	295	80	0	No
17:30 - 18:30	166	+	111	=	277	43	0	No
14:15 - 15:15	174	+	96	=	270	46	0	No
17:45 - 18:45	136	+	113	=	249	39	0	No
08:00 - 09:00	109	+	125	=	234	41	0	No
18:00 - 19:00	126	+	105	=	231	29	0	No
08:15 - 09:15	104	+	127	=	231	46	0	No
08:45 - 09:45	112	+	117	=	229	47	0	No
08:30 - 09:30	102		121		223	44	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2448

Study Date : 02/14/2024

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 1 hours meet 1A minimums.
Only 1 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

CR 53

Minor Road

121st Ave

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
07:00 - 08:00	111	+	272	=	383	100	0	Yes
16:15 - 17:15	259	+	173	=	432	57	0	No
16:30 - 17:30	264	+	167	=	431	57	0	No
15:45 - 16:45	280	+	147	=	427	51	0	No
16:00 - 17:00	249	+	170	=	419	58	0	No
16:45 - 17:45	252	+	152	=	404	54	0	No
15:30 - 16:30	255	+	139	=	394	54	0	No
17:00 - 18:00	236	+	135	=	371	52	0	No
15:00 - 16:00	238	+	124	=	362	59	0	No
15:15 - 16:15	226	+	135	=	361	55	0	No
17:15 - 18:15	214	+	127	=	341	47	0	No
14:45 - 15:45	206	+	122	=	328	56	0	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:45 - 16:45	280	+	147	=	427	51	0	Yes
16:45 - 17:45	252	+	152	=	404	54	0	No
07:15 - 08:15	136	+	259	=	395	99	0	No
15:30 - 16:30	255	+	139	=	394	54	0	No
07:00 - 08:00	111	+	272	=	383	100	0	No
07:30 - 08:30	141	+	232	=	373	90	0	No
17:00 - 18:00	236	+	135	=	371	52	0	No
15:00 - 16:00	238	+	124	=	362	59	0	No
15:15 - 16:15	226	+	135	=	361	55	0	No
17:15 - 18:15	214	+	127	=	341	47	0	No
14:45 - 15:45	206	+	122	=	328	56	0	No
07:45 - 08:45	137	+	170	=	307	49	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2448

Study Date : 02/14/2024

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.

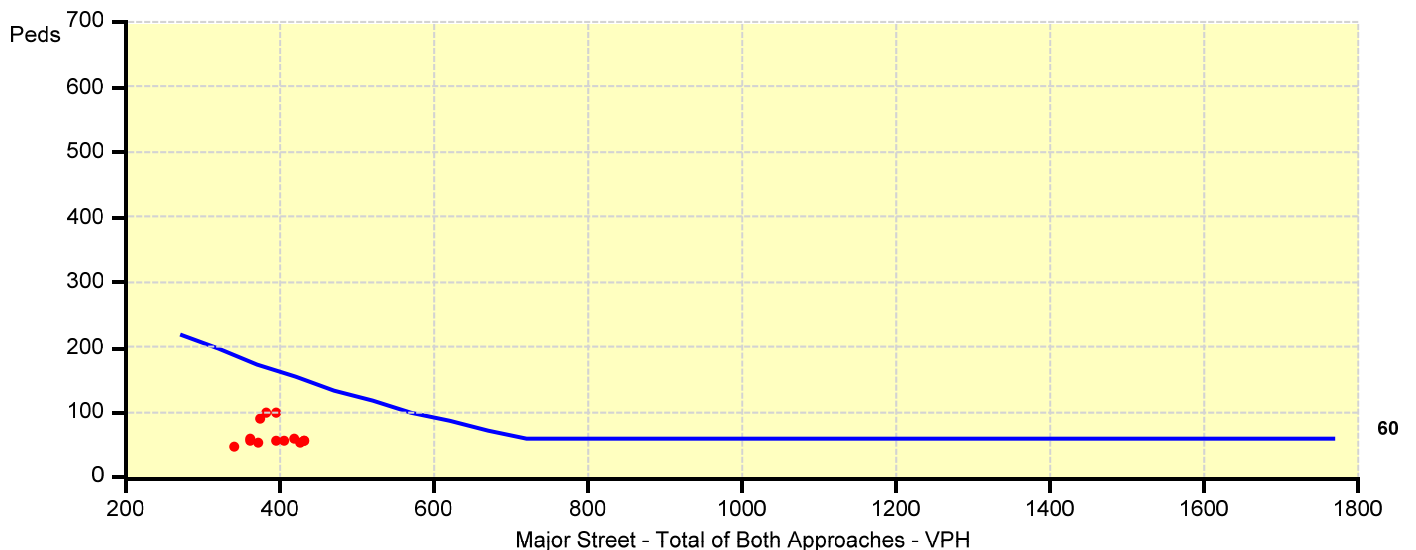
Summary

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				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CR 53					121st Ave		
16:15 - 17:15	259	+	173	=	432	57	0	No
16:30 - 17:30	264	+	167	=	431	57	0	No
15:45 - 16:45	280	+	147	=	427	51	0	No
16:00 - 17:00	249	+	170	=	419	58	0	No
16:45 - 17:45	252	+	152	=	404	54	0	No
07:15 - 08:15	136	+	259	=	395	99	0	No
15:30 - 16:30	255	+	139	=	394	54	0	No
07:00 - 08:00	111	+	272	=	383	100	0	No
07:30 - 08:30	141	+	232	=	373	90	0	No
17:00 - 18:00	236	+	135	=	371	52	0	No
15:00 - 16:00	238	+	124	=	362	59	0	No
15:15 - 16:15	226	+	135	=	361	55	0	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2448

Study Date : 02/14/2024

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.

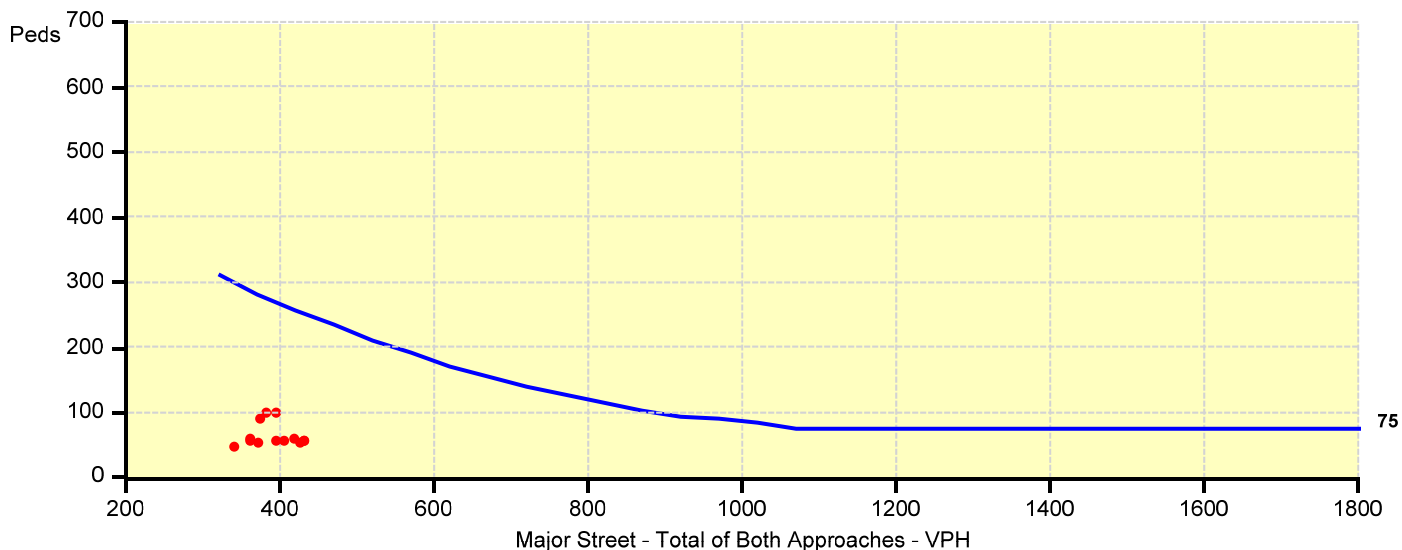
Summary

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				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CR 53					121st Ave		
16:15 - 17:15	259	+	173	=	432	57	0	No
16:30 - 17:30	264	+	167	=	431	57	0	No
15:45 - 16:45	280	+	147	=	427	51	0	No
16:00 - 17:00	249	+	170	=	419	58	0	No
16:45 - 17:45	252	+	152	=	404	54	0	No
07:15 - 08:15	136	+	259	=	395	99	0	No
15:30 - 16:30	255	+	139	=	394	54	0	No
07:00 - 08:00	111	+	272	=	383	100	0	No
07:30 - 08:30	141	+	232	=	373	90	0	No
17:00 - 18:00	236	+	135	=	371	52	0	No
15:00 - 16:00	238	+	124	=	362	59	0	No
15:15 - 16:15	226	+	135	=	361	55	0	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2448

Study Date : 02/14/2024

Multiway Stop Warrants - Summary

Major Street Approaches

Northbound: CR 53
 Number of Lanes : 1
 Total Approach Volume: 2,009

Southbound: CR 53
 Number of Lanes : 1
 Total Approach Volume: 1,634

Minor Street Approaches

Eastbound: 121st Ave
 Number of Lanes : 1
 Total Approach Volume: 569

Westbound: None
 Number of Lanes : 2+
 Total Approach Volume: 0

Warrant Summary (Rural Values Apply)

Criteria A - Interim Measure	Not Evaluated
If traffic signals are justified, stop signs can be installed as an interim measure.	
Criteria B - Crash Experience	Not Satisfied
Number of crashes (-1) is less than minimum required (5).	
Criteria C - Minimum Volumes and Delays	Not Satisfied
Average of 8 highest hours is less than volume criteria.	
Criteria D - 80% of Volumes, Delays, and Crashes	Not Satisfied
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?
07:15 - 08:15	395	296.4	99	49.6	210	140	No
16:15 - 17:15	432		57				
15:00 - 16:00	362		59				
17:15 - 18:15	341		47				
08:15 - 09:15	231		46				
14:00 - 15:00	221		33				
18:30 - 19:30	220		31				
06:15 - 07:15	169		25				
09:15 - 10:15	152		27				
13:00 - 14:00	161		17				
19:30 - 20:30	154		20				
10:45 - 11:45	151		20				

Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
07:15 - 08:15	395	296.4	99	49.6	240	160	No
16:15 - 17:15	432		57				
15:00 - 16:00	362		59				
17:15 - 18:15	341		47				
08:15 - 09:15	231		46				
14:00 - 15:00	221		33				
18:30 - 19:30	220		31				
06:15 - 07:15	169		25				
09:15 - 10:15	152		27				
13:00 - 14:00	161		17				
19:30 - 20:30	154		20				
10:45 - 11:45	151		20				