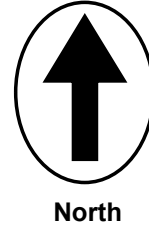


Date : 08/19/21

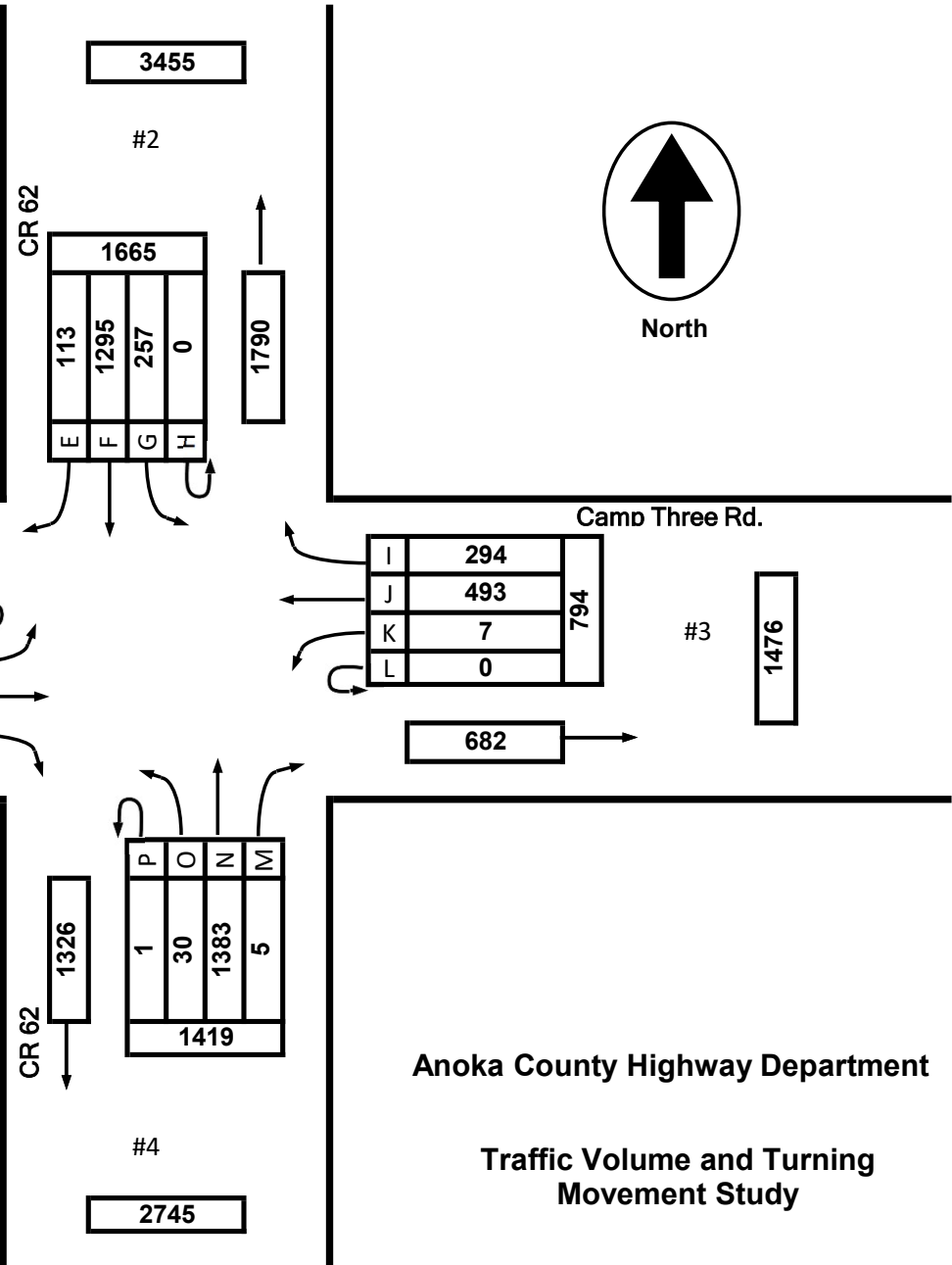
Count Number : TMC 2133

Location : CR 62 (Kettle River Blvd.)
@ Camp Three Rd.

Collection Period : 24 Hours



North



1194

#1

1	D
113	C
420	B
23	A

557

Camp Three Rd.

3455

#2

CR 62

113	E
1295	F
257	G
0	H

1665

1790

Camp Three Rd.

294	I
493	J
7	K
0	L

#3

1476

682

CR 62

1326

1	P
30	O
1383	N
5	M

1419

#4

2745

Anoka County Highway Department

Traffic Volume and Turning Movement Study

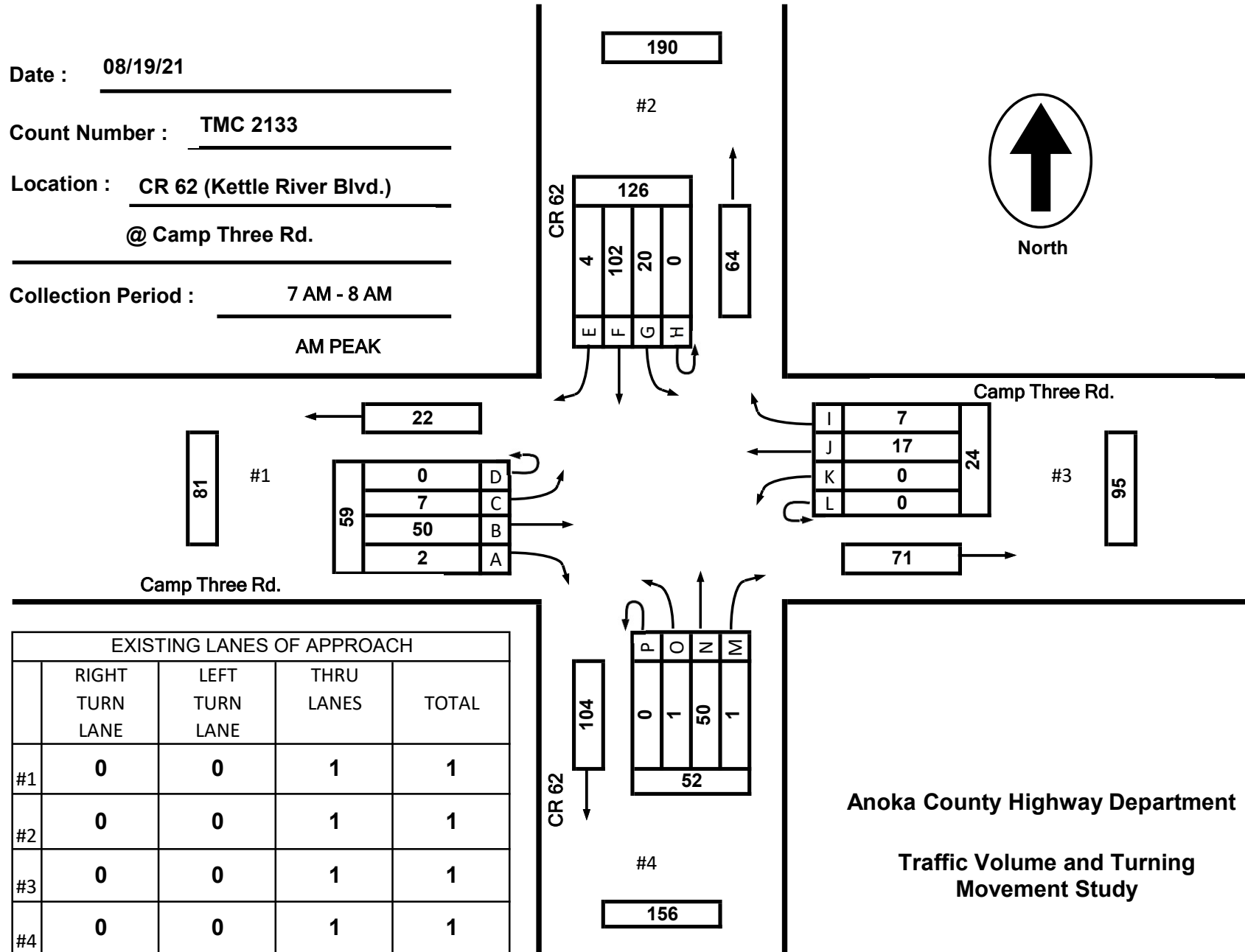
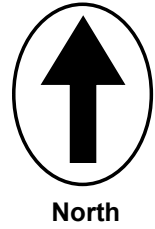
EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	0	1	1
#2	0	0	1	1
#3	0	0	1	1
#4	0	0	1	1

Date : 08/19/21

Count Number : TMC 2133

Location : CR 62 (Kettle River Blvd.)
@ Camp Three Rd.

Collection Period : 7 AM - 8 AM
AM PEAK



Anoka County Highway Department

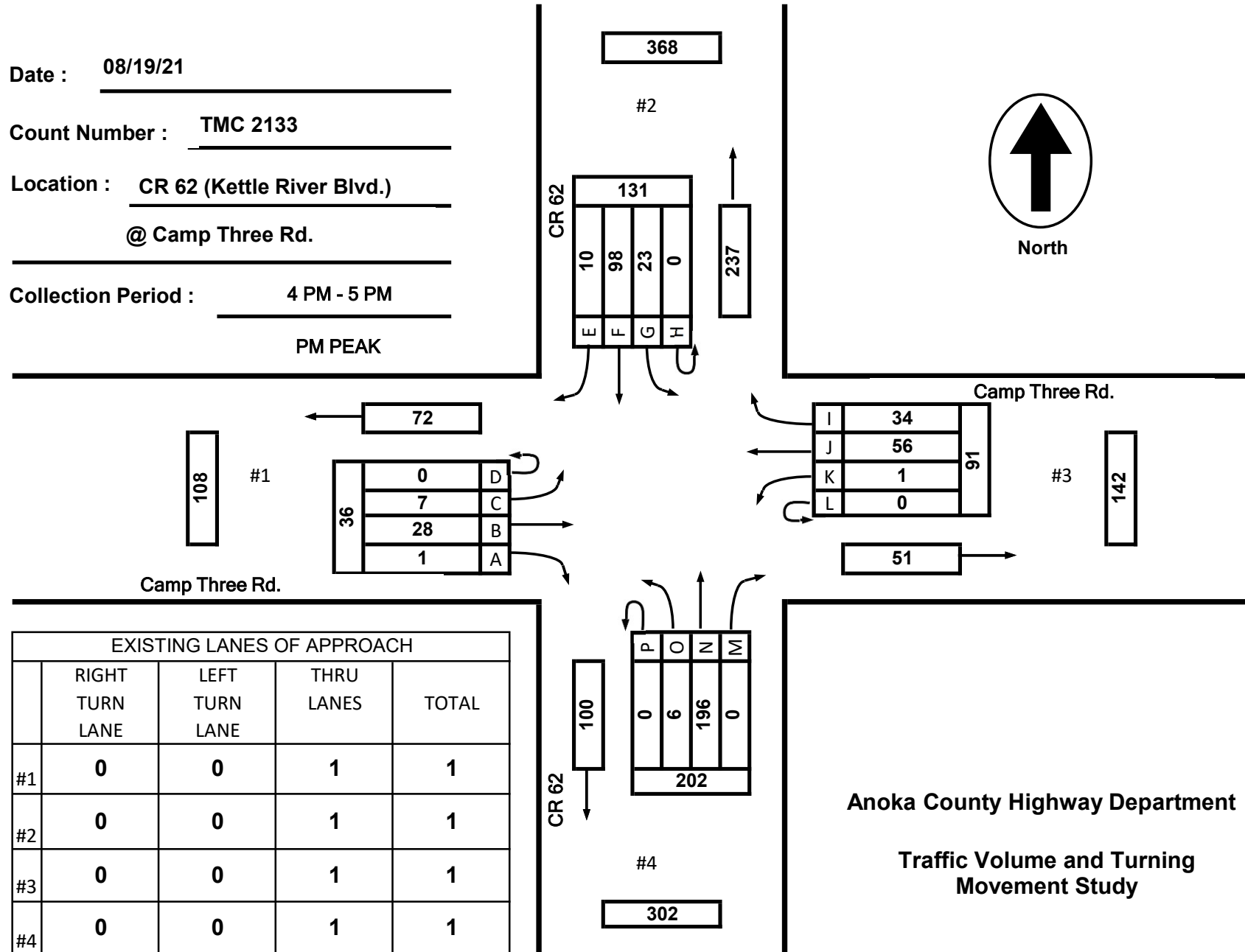
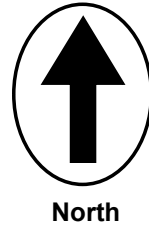
Traffic Volume and Turning Movement Study

Date : 08/19/21

Count Number : TMC 2133

Location : CR 62 (Kettle River Blvd.)
@ Camp Three Rd.

Collection Period : 4 PM - 5 PM
PM PEAK



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

Anoka County Highway Department
Traffic Volume and Turning Movement Study

**CR 62 (Kettle River Blvd.) @ Camp Three Rd.
Columbus MN
Thursday, August 19, 2021**

Time	Southbound CR 62 (Kettle River Blvd)						Westbound Camp Three Rd						Northbound CR 62 (Kettle River Blvd)						Eastbound Camp Three Rd						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	2	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
12:15 AM	0	0	2	0	0	2	0	0	4	1	0	5	0	0	1	0	0	1	0	0	0	0	0	0	8
12:30 AM	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	2	0	0	2	4
Hourly Total	0	0	5	0	0	5	0	0	6	1	0	7	0	1	2	0	0	3	0	0	2	0	0	2	17
1:00 AM	0	0	1	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
1:15 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
1:30 AM	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	5
1:45 AM	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
Hourly Total	0	0	3	0	0	3	0	0	3	1	0	4	0	0	1	0	0	1	0	0	3	0	0	3	11
2:00 AM	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
2:15 AM	0	0	1	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
2:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	0	1	4
2:45 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 Total	0	0	3	0	0	3	0	0	4	0	0	4	0	0	2	0	0	2	0	0	1	0	0	1	10
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	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
3:30 AM	0	0	1	0	0	1	0	0	2	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	4
3:45 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
Hourly Total	0	1	4	0	0	5	0	0	2	1	0	3	0	0	1	0	0	1	0	0	0	0	0	0	9
4:00 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
4:15 AM	0	1	4	0	0	5	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	8
4:30 AM	0	1	4	0	0	5	0	0	0	0	0	0	0	0	3	0	0	3	0	1	2	1	0	4	12
4:45 AM	0	1	10	0	0	11	0	0	0	2	0	2	0	0	0	0	0	0	0	0	3	0	0	3	16
Hourly Total	0	3	20	0	0	23	0	0	1	2	0	3	0	0	4	0	0	4	0	1	7	1	0	9	39
5:00 AM	0	2	6	0	0	8	0	0	1	0	0	1	0	0	1	0	0	1	0	0	4	1	0	5	15
5:15 AM	0	1	14	0	0	15	0	0	1	0	0	1	0	0	1	0	0	1	0	0	12	0	0	12	29
5:30 AM	0	2	25	0	0	27	0	0	2	0	0	2	0	0	2	0	0	2	0	1	6	0	0	7	38
5:45 AM	0	5	29	0	0	34	0	0	1	0	0	1	0	0	6	0	0	6	0	0	9	0	0	9	50
Hourly Total	0	10	74	0	0	84	0	0	5	0	0	5	0	0	10	0	0	10	0	1	31	1	0	33	132
6:00 AM	0	4	24	0	0	28	0	0	1	1	0	2	0	0	5	0	0	5	0	0	7	0	0	7	42
6:15 AM	0	4	33	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	9	46
6:30 AM	0	5	21	1	0	27	0	0	5	0	0	5	0	0	7	0	0	7	0	2	12	1	0	15	54
6:45 AM	0	6	25	1	0	32	0	0	4	1	0	5	0	0	8	0	0	8	0	0	13	0	0	13	58
Hourly Total	0	19	103	2	0	124	0	0	10	2	0	12	0	0	20	0	0	20	0	3	40	1	0	44	200
7:00 AM	0	6	20	1	1	27	0	0	2	1	0	3	0	1	6	0	0	7	0	1	10	0	0	11	48
7:15 AM	0	7	26	1	0	34	0	0	3	4	0	7	0	0	16	0	0	16	0	1	12	0	0	13	70
7:30 AM	0	4	29	0	0	33	0	0	6	0	0	6	0	0	16	0	0	16	0	2	9	0	0	11	66
7:45 AM	0	3	27	2	0	32	0	0	6	2	0	8	0	0	12	1	0	13	0	3	19	2	0	24	77
Hourly Total	0	20	102	4	1	126	0	0	17	7	0	24	0	1	50	1	0	52	0	7	50	2	0	59	261

**CR 62 (Kettle River Blvd.) @ Camp Three Rd.
Columbus MN
Thursday, August 19, 2021**

Time	Southbound CR 62 (Kettle River Blvd)						Westbound Camp Three Rd						Northbound CR 62 (Kettle River Blvd)						Eastbound Camp Three Rd						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	4	15	1	0	20	0	0	3	2	0	5	0	0	13	0	0	13	0	3	7	0	0	10	48
8:15 AM	0	3	21	1	0	25	0	0	12	2	0	14	0	0	9	0	0	9	0	3	5	0	0	8	56
8:30 AM	0	4	16	1	0	21	0	0	2	1	0	3	0	0	19	0	0	19	0	1	8	0	0	9	52
8:45 AM	0	8	20	0	0	28	0	0	4	3	0	7	0	0	8	0	0	8	0	2	5	0	0	7	50
Hourly Total	0	19	72	3	0	94	0	0	21	8	0	29	0	0	49	0	0	49	0	9	25	0	0	34	206
9:00 AM	0	0	9	2	0	11	0	0	6	4	0	10	0	0	12	0	0	12	0	2	4	0	0	6	39
9:15 AM	0	3	18	1	0	22	0	0	0	4	0	4	0	0	14	0	0	14	0	2	6	0	0	8	48
9:30 AM	0	4	18	1	0	23	0	0	2	3	0	5	0	0	17	1	0	18	0	1	7	0	0	8	54
9:45 AM	0	7	19	2	0	28	0	0	5	4	0	9	0	0	15	0	0	15	0	3	4	0	0	7	59
Hourly Total	0	14	64	6	0	84	0	0	13	15	0	28	0	0	58	1	0	59	0	8	21	0	0	29	200
10:00 AM	0	4	20	1	0	25	0	1	2	1	0	4	0	1	10	0	0	11	0	1	5	0	0	6	46
10:15 AM	0	8	15	0	0	23	0	0	11	3	0	14	0	1	12	0	0	13	0	1	7	1	0	9	59
10:30 AM	0	2	17	3	0	22	0	0	8	7	0	15	0	1	20	0	0	21	0	2	4	0	0	6	64
10:45 AM	0	5	15	4	0	24	0	1	13	1	0	15	0	0	17	0	0	17	0	2	9	0	0	11	67
Hourly Total	0	19	67	8	0	94	0	2	34	12	0	48	0	3	59	0	0	62	0	6	25	1	0	32	236
11:00 AM	0	5	24	1	0	30	0	0	2	5	0	7	0	1	16	0	0	17	0	2	3	1	0	6	60
11:15 AM	0	2	23	0	0	25	0	0	3	4	0	7	0	0	26	0	0	26	0	1	2	0	0	3	61
11:30 AM	0	6	12	4	0	22	0	1	7	7	0	15	0	0	18	0	0	18	0	3	3	0	0	6	61
11:45 AM	0	2	29	1	0	32	0	0	7	3	0	10	0	0	24	0	0	24	0	0	8	2	0	10	76
Hourly Total	0	15	88	6	0	109	0	1	19	19	0	39	0	1	84	0	0	85	0	6	16	3	0	25	258
12:00 PM	0	3	23	2	0	28	0	0	4	2	0	6	0	3	19	0	0	22	0	1	0	0	0	1	57
12:15 PM	0	2	19	2	0	23	0	1	1	4	0	6	0	0	18	0	0	18	0	3	4	0	0	7	54
12:30 PM	0	3	13	2	0	18	0	0	6	4	0	10	0	0	21	0	0	21	0	1	9	0	0	10	59
12:45 PM	0	2	18	0	0	20	0	0	5	4	0	9	0	0	27	0	0	27	0	1	6	1	0	8	64
Hourly Total	0	10	73	6	0	89	0	1	16	14	0	31	0	3	85	0	0	88	0	6	19	1	0	26	234
1:00 PM	0	1	19	2	0	22	0	0	10	3	0	13	0	0	21	0	0	21	0	0	3	0	0	3	59
1:15 PM	0	6	17	0	0	23	0	0	8	1	0	9	0	0	17	0	0	17	0	1	7	0	0	8	57
1:30 PM	0	2	19	3	0	24	0	0	7	3	0	10	0	1	24	0	0	25	0	1	1	0	0	2	61
1:45 PM	0	2	19	1	0	22	0	0	4	0	0	4	0	1	19	0	0	20	0	1	4	0	0	5	51
Hourly Total	0	11	74	6	0	91	0	0	29	7	0	36	0	2	81	0	0	83	0	3	15	0	0	18	228
2:00 PM	0	2	16	0	0	18	0	0	5	4	0	9	0	0	30	0	0	30	0	5	0	0	0	5	62
2:15 PM	0	6	16	0	0	22	0	1	6	2	0	9	0	0	30	0	0	30	0	1	8	0	0	9	70
2:30 PM	0	2	22	4	0	28	0	0	10	5	0	15	0	0	26	0	0	26	0	2	6	1	0	9	78
2:45 PM	0	3	15	1	0	19	0	0	7	3	0	10	0	1	41	0	0	42	0	2	9	0	0	11	82
Hourly Total	0	13	69	5	0	87	0	1	28	14	0	43	0	1	127	0	0	128	0	10	23	1	0	34	292
3:00 PM	0	0	21	3	0	24	0	0	5	4	0	9	0	0	33	0	0	33	0	4	7	1	0	12	78
3:15 PM	0	7	19	5	0	31	0	0	12	6	0	18	0	2	43	0	0	45	0	2	3	0	0	5	99
3:30 PM	0	2	25	1	0	28	0	0	10	12	0	22	0	0	40	0	0	40	0	1	13	0	0	14	104
3:45 PM	0	3	22	0	0	25	0	0	18	11	0	29	0	0	34	1	0	35	1	1	8	0	0	10	99
Hourly Total	0	12	87	9	0	108	0	0	45	33	0	78	0	2	150	1	0	153	1	8	31	1	0	41	380

**CR 62 (Kettle River Blvd.) @ Camp Three Rd.
Columbus MN
Thursday, August 19, 2021**

Time	Southbound CR 62 (Kettle River Blvd)						Westbound Camp Three Rd						Northbound CR 62 (Kettle River Blvd)						Eastbound Camp Three Rd						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	10	30	2	0	42	0	0	13	9	0	22	0	4	52	0	0	56	0	3	8	0	0	11	131
4:15 PM	0	6	18	2	0	26	0	1	13	7	0	21	0	1	50	0	0	51	0	1	5	1	0	7	105
4:30 PM	0	4	29	1	0	34	0	0	15	10	0	25	0	1	50	0	0	51	0	1	6	0	0	7	117
4:45 PM	0	3	21	5	0	29	0	0	15	8	0	23	0	0	44	0	0	44	0	2	9	0	0	11	107
Hourly Total	0	23	98	10	0	131	0	1	56	34	0	91	0	6	196	0	0	202	0	7	28	1	0	36	460
5:00 PM	0	7	20	5	0	32	0	0	14	8	0	22	0	0	39	0	0	39	0	2	9	2	0	13	106
5:15 PM	0	7	18	3	0	28	0	0	6	12	0	18	0	4	53	0	0	57	0	4	8	1	0	13	116
5:30 PM	0	6	18	2	0	26	0	0	12	14	0	26	1	0	39	0	0	40	0	2	6	0	0	8	100
5:45 PM	0	2	22	2	0	26	0	0	15	8	0	23	0	0	36	0	0	36	0	2	8	0	0	10	95
Hourly Total	0	22	78	12	0	112	0	0	47	42	0	89	1	4	167	0	0	172	0	10	31	3	0	44	417
6:00 PM	0	4	23	5	0	32	0	0	11	12	0	23	0	0	27	0	0	27	0	4	5	1	0	10	92
6:15 PM	0	3	14	1	0	18	0	0	10	10	0	20	0	0	29	0	0	29	0	2	4	0	0	6	73
6:30 PM	0	4	17	1	0	22	0	0	16	8	0	24	0	0	13	0	0	13	0	3	4	1	0	8	67
6:45 PM	0	1	15	2	0	18	0	0	7	7	0	14	0	0	31	0	0	31	0	0	4	0	0	4	67
Hourly Total	0	12	69	9	0	90	0	0	44	37	0	81	0	0	100	0	0	100	0	9	17	2	0	28	299
7:00 PM	0	4	14	1	0	19	0	0	4	4	0	8	0	1	14	1	0	16	0	3	4	0	0	7	50
7:15 PM	0	11	19	6	0	36	0	0	10	5	0	15	0	0	12	0	0	12	0	2	4	0	0	6	69
7:30 PM	0	0	14	5	0	19	0	1	6	2	0	9	0	0	16	0	0	16	0	0	1	1	0	2	46
7:45 PM	0	1	14	1	0	16	0	0	7	6	0	13	0	0	19	0	0	19	0	2	4	0	0	6	54
Hourly Total	0	16	61	13	0	90	0	1	27	17	0	45	0	1	61	1	0	63	0	7	13	1	0	21	219
8:00 PM	0	2	6	5	0	13	0	0	9	2	0	11	0	1	11	0	0	12	0	3	2	0	0	5	41
8:15 PM	0	5	16	1	0	22	0	0	12	8	0	20	0	0	8	0	0	8	0	2	2	1	0	5	55
8:30 PM	0	5	16	2	0	23	0	0	5	1	0	6	0	1	8	0	0	9	0	0	1	2	0	3	41
8:45 PM	0	1	9	2	0	12	0	0	4	4	0	8	0	1	12	0	0	13	0	0	6	0	0	6	39
Hourly Total	0	13	47	10	0	70	0	0	30	15	0	45	0	3	39	0	0	42	0	5	11	3	0	19	176
9:00 PM	0	1	5	1	0	7	0	0	4	5	0	9	0	0	5	0	0	5	0	0	3	0	0	3	24
9:15 PM	0	0	7	0	0	7	0	0	7	2	0	9	0	1	5	0	0	6	0	1	3	0	0	4	26
9:30 PM	0	0	2	1	0	3	0	0	6	1	0	7	0	0	9	1	0	10	0	1	2	1	0	4	24
9:45 PM	0	1	3	1	0	5	0	0	5	2	0	7	0	0	1	0	0	1	0	4	1	0	0	5	18
Hourly Total	0	2	17	3	0	22	0	0	22	10	0	32	0	1	20	1	0	22	0	6	9	1	0	16	92
10:00 PM	0	1	1	0	0	2	0	0	2	1	0	3	0	1	2	0	0	3	0	0	1	0	0	1	9
10:15 PM	0	1	4	0	0	5	0	0	3	1	0	4	0	0	5	0	0	5	0	1	0	0	0	1	15
10:30 PM	0	0	1	0	0	1	0	0	2	0	0	2	0	0	4	0	0	4	0	0	0	0	0	0	7
10:45 PM	0	0	3	0	0	3	0	0	1	1	0	2	0	0	2	0	0	2	0	0	0	0	0	0	7
Hourly Total	0	2	9	0	0	11	0	0	8	3	0	11	0	1	13	0	0	14	0	1	1	0	0	2	38
11:00 PM	0	0	2	0	0	2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	4
11:15 PM	0	0	2	0	0	2	0	0	3	0	0	3	0	0	1	0	0	1	0	0	0	0	0	0	6
11:30 PM	0	1	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	4
11:45 PM	0	0	2	1	0	3	0	0	2	0	0	2	0	0	2	0	0	2	0	0	0	0	0	0	7
Hourly Total	0	1	8	1	0	10	0	0	6	0	0	6	0	0	4	0	0	4	0	0	1	0	0	1	21
DAILY TOTAL	0	257	1295	113	1	1665	0	7	493	294	0	794	1	30	1383	5	0	1419	1	113	420	23	0	557	4435
Cars	0	254	1242	112	1	1608	0	5	482	286	0	773	1	30	1309	4	0	1344	1	111	413	23	0	548	4273
Heavy Vehicles	0	3	53	1	0	57	0	2	11	8	0	21	0	0	74	1	0	75	0	2	7	0	0	9	162
Heavy Vehicle %	0.00%	1.17%	4.09%	0.88%	0.00%	3.42%	0.00%	28.57%	2.23%	2.72%	0.00%	2.64%	0.00%	0.00%	5.35%	20.00%	0.00%	5.29%	0.00%	1.77%	1.67%	0.00%	0.00%	1.62%	3.65%

**CR 62 (Kettle River Blvd.) @ Camp Three Rd.
Columbus MN
Thursday, August 19, 2021**

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							
7:00 AM	0	6	20	1	1	27	0	0	2	1	0	3	0	1	6	0	0	7	0	1	10	0	0	11	0	1	12	0	0	13	48
7:15 AM	0	7	26	1	0	34	0	0	3	4	0	7	0	0	16	0	0	16	0	2	9	0	0	11	0	3	19	2	0	24	70
7:30 AM	0	4	29	0	0	33	0	0	6	0	0	6	0	0	16	0	0	16	0	2	9	0	0	11	0	3	19	2	0	24	66
7:45 AM	0	3	27	2	0	32	0	0	6	2	0	8	0	0	12	1	0	13	0	3	19	2	0	24	0	3	19	2	0	24	77
Peak Hour Total	0	20	102	4	1	126	0	0	17	7	0	24	0	1	50	1	0	52	0	7	50	2	0	59	0	7	50	2	0	59	261
PHF	0.000	0.714	0.879	0.500	0.250	0.926	0.000	0.000	0.708	0.438	0.000	0.750	0.000	0.250	0.781	0.250	0.000	0.813	0.000	0.583	0.658	0.250	0.000	0.615	0.000	0.583	0.658	0.250	0.000	0.615	0.847

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	10	30	2	0	42	0	0	13	9	0	22	0	4	52	0	0	56	0	3	8	0	0	11	0	3	8	0	0	11	131
4:15 PM	0	6	18	2	0	26	0	1	13	7	0	21	0	1	50	0	0	51	0	1	5	1	0	7	0	1	5	1	0	7	105
4:30 PM	0	4	29	1	0	34	0	0	15	10	0	25	0	1	50	0	0	51	0	1	6	0	0	7	0	1	6	0	0	7	117
4:45 PM	0	3	21	5	0	29	0	0	15	8	0	23	0	0	44	0	0	44	0	2	9	0	0	11	0	2	9	0	0	11	107
Peak Hour Total	0	23	98	10	0	131	0	1	56	34	0	91	0	6	196	0	0	202	0	7	28	1	0	36	0	7	28	1	0	36	460
PHF	0.000	0.575	0.817	0.500	0.000	0.780	0.000	0.250	0.933	0.850	0.000	0.910	0.000	0.375	0.942	0.000	0.000	0.902	0.000	0.583	0.778	0.250	0.000	0.818	0.000	0.583	0.778	0.250	0.000	0.818	0.878

Total Vehicles On Leg		3455				
Vehicles Entering Intersection		1665		Vehicles Exiting Intersection		1790
Southbound						
Cars	112	1242	254	0	1	
Heavy	1	53	3	0	0	
Total	113	1295	257	0	1	



Total Vehicles on Leg 1194	Vehicles Entering Intersection 557	Eastbound	Cars	Heavy	Total
	Vehicles Exiting Intersection 637		0	0	0
			1	0	1
			111	2	113
			413	7	420
23	0	23			



Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 794	Total Vehicles on Leg 1476
286	8	294			
482	11	493			
5	2	7			
0	0	0			
0	0	0	Vehicles Exiting Intersection 682		



Cars	0	1	30	1309	4	
Heavy	0	0	0	74	1	
Total	0	1	30	1383	5	
Northbound						
Vehicles Entering Intersection		1419		Vehicles Exiting Intersection		1326
Total Vehicles On Leg				2745		



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2133

Study Date : 09/10/2021

Signal Warrants - Summary

Major Street Approaches

Northbound: CR 62 (Kettle River Blvd.)

Number of Lanes : 1

Total Approach Volume: 1,419

Southbound: CR 62 (Kettle River Blvd.)

Number of Lanes : 1

Total Approach Volume: 1,665

Minor Street Approaches

Eastbound: Camp Three Rd.

Number of Lanes : 1

Total Approach Volume: 557

Westbound: Camp Three Rd.

Number of Lanes : 1

Total Approach Volume: 794

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 2 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 2133

Study Date : 09/10/2021

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 62 (Kettle River Blvd.)					Camp Three Rd.		
16:00 - 17:00	202	+	131	=	333	36	91	No
15:45 - 16:45	193	+	127	=	320	35	97	No
16:30 - 17:30	191	+	123	=	314	44	88	No
16:15 - 17:15	185	+	121	=	306	38	91	No
15:30 - 16:30	182	+	121	=	303	42	94	No
15:15 - 16:15	176	+	126	=	302	40	91	No
16:45 - 17:45	180	+	115	=	295	45	89	No
17:00 - 18:00	172	+	112	=	284	44	89	No
17:15 - 18:15	160	+	112	=	272	41	90	No
14:45 - 15:45	160	+	102	=	262	42	59	No
15:00 - 16:00	153	+	108	=	261	41	78	No
14:30 - 15:30	146	+	102	=	248	37	52	No
17:30 - 18:30	132	+	102	=	234	34	92	No
14:15 - 15:15	131	+	93	=	224	41	43	No
14:00 - 15:00	128	+	87	=	215	34	43	No
17:45 - 18:45	105	+	98	=	203	34	90	No
11:15 - 12:15	90	+	107	=	197	20	38	No
13:45 - 14:45	106	+	90	=	196	28	37	No
11:00 - 12:00	85	+	109	=	194	25	39	No
13:30 - 14:30	105	+	86	=	191	21	32	No
18:00 - 19:00	100	+	90	=	190	28	81	No
11:30 - 12:30	82	+	105	=	187	24	37	No
11:45 - 12:45	85	+	101	=	186	28	32	No
10:30 - 11:30	81	+	101	=	182	26	44	No
13:15 - 14:15	92		87		179	20	32	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2133

Study Date : 09/10/2021

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 62 (Kettle River Blvd.)					Camp Three Rd.		
16:00 - 17:00	202	+	131	=	333	36	91	No
15:45 - 16:45	193	+	127	=	320	35	97	No
16:30 - 17:30	191	+	123	=	314	44	88	No
16:15 - 17:15	185	+	121	=	306	38	91	No
15:30 - 16:30	182	+	121	=	303	42	94	No
15:15 - 16:15	176	+	126	=	302	40	91	No
16:45 - 17:45	180	+	115	=	295	45	89	No
17:00 - 18:00	172	+	112	=	284	44	89	No
17:15 - 18:15	160	+	112	=	272	41	90	No
14:45 - 15:45	160	+	102	=	262	42	59	No
15:00 - 16:00	153	+	108	=	261	41	78	No
14:30 - 15:30	146	+	102	=	248	37	52	No
17:30 - 18:30	132	+	102	=	234	34	92	No
14:15 - 15:15	131	+	93	=	224	41	43	No
14:00 - 15:00	128	+	87	=	215	34	43	No
17:45 - 18:45	105	+	98	=	203	34	90	No
11:15 - 12:15	90	+	107	=	197	20	38	No
13:45 - 14:45	106	+	90	=	196	28	37	No
11:00 - 12:00	85	+	109	=	194	25	39	No
13:30 - 14:30	105	+	86	=	191	21	32	No
18:00 - 19:00	100	+	90	=	190	28	81	No
11:30 - 12:30	82	+	105	=	187	24	37	No
11:45 - 12:45	85	+	101	=	186	28	32	No
10:30 - 11:30	81	+	101	=	182	26	44	No
13:15 - 14:15	92		87		179	20	32	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2133

Study Date : 09/10/2021

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 2 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 CR 62 (Kettle River Blvd.)

Minor Road Camp Three Rd.

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:15 - 17:15	185	+	121	=	306	38	91	Yes
15:15 - 16:15	176	+	126	=	302	40	91	Yes
17:15 - 18:15	160	+	112	=	272	41	90	No
14:45 - 15:45	160	+	102	=	262	42	59	No
15:00 - 16:00	153	+	108	=	261	41	78	No
14:30 - 15:30	146	+	102	=	248	37	52	No
17:30 - 18:30	132	+	102	=	234	34	92	No
14:15 - 15:15	131	+	93	=	224	41	43	No
14:00 - 15:00	128	+	87	=	215	34	43	No
17:45 - 18:45	105	+	98	=	203	34	90	No
11:15 - 12:15	90	+	107	=	197	20	38	No
13:45 - 14:45	106	+	90	=	196	28	37	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:00 - 17:00	202	+	131	=	333	36	91	No
15:45 - 16:45	193	+	127	=	320	35	97	No
16:30 - 17:30	191	+	123	=	314	44	88	No
16:15 - 17:15	185	+	121	=	306	38	91	No
15:30 - 16:30	182	+	121	=	303	42	94	No
15:15 - 16:15	176	+	126	=	302	40	91	No
16:45 - 17:45	180	+	115	=	295	45	89	No
17:00 - 18:00	172	+	112	=	284	44	89	No
17:15 - 18:15	160	+	112	=	272	41	90	No
14:45 - 15:45	160	+	102	=	262	42	59	No
15:00 - 16:00	153	+	108	=	261	41	78	No
14:30 - 15:30	146	+	102	=	248	37	52	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2133

Study Date : 09/10/2021

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.

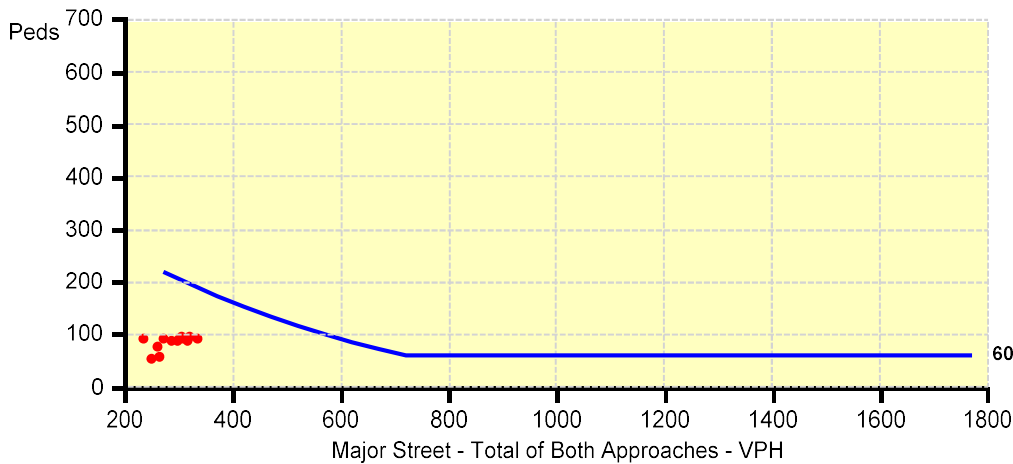
Summary

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 CR 62 (Kettle River Blvd.)				Total	Minor Road Camp Three Rd.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	202	+	131	=	333	36	91	No
15:45 - 16:45	193	+	127	=	320	35	97	No
16:30 - 17:30	191	+	123	=	314	44	88	No
16:15 - 17:15	185	+	121	=	306	38	91	No
15:30 - 16:30	182	+	121	=	303	42	94	No
15:15 - 16:15	176	+	126	=	302	40	91	No
16:45 - 17:45	180	+	115	=	295	45	89	No
17:00 - 18:00	172	+	112	=	284	44	89	No
17:15 - 18:15	160	+	112	=	272	41	90	No
14:45 - 15:45	160	+	102	=	262	42	59	No
15:00 - 16:00	153	+	108	=	261	41	78	No
							52	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2133

Study Date : 09/10/2021

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 CR 62 (Kettle River Blvd.)				Total	Minor Road Camp Three Rd.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	202	+	131	=	333	36	91	No
15:45 - 16:45	193	+	127	=	320	35	97	No
16:30 - 17:30	191	+	123	=	314	44	88	No
16:15 - 17:15	185	+	121	=	306	38	91	No
15:30 - 16:30	182	+	121	=	303	42	94	No
15:15 - 16:15	176	+	126	=	302	40	91	No
16:45 - 17:45	180	+	115	=	295	45	89	No
17:00 - 18:00	172	+	112	=	284	44	89	No
17:15 - 18:15	160	+	112	=	272	41	90	No
14:45 - 15:45	160	+	102	=	262	42	59	No
15:00 - 16:00	153	+	108	=	261	41	78	No
							52	No

