

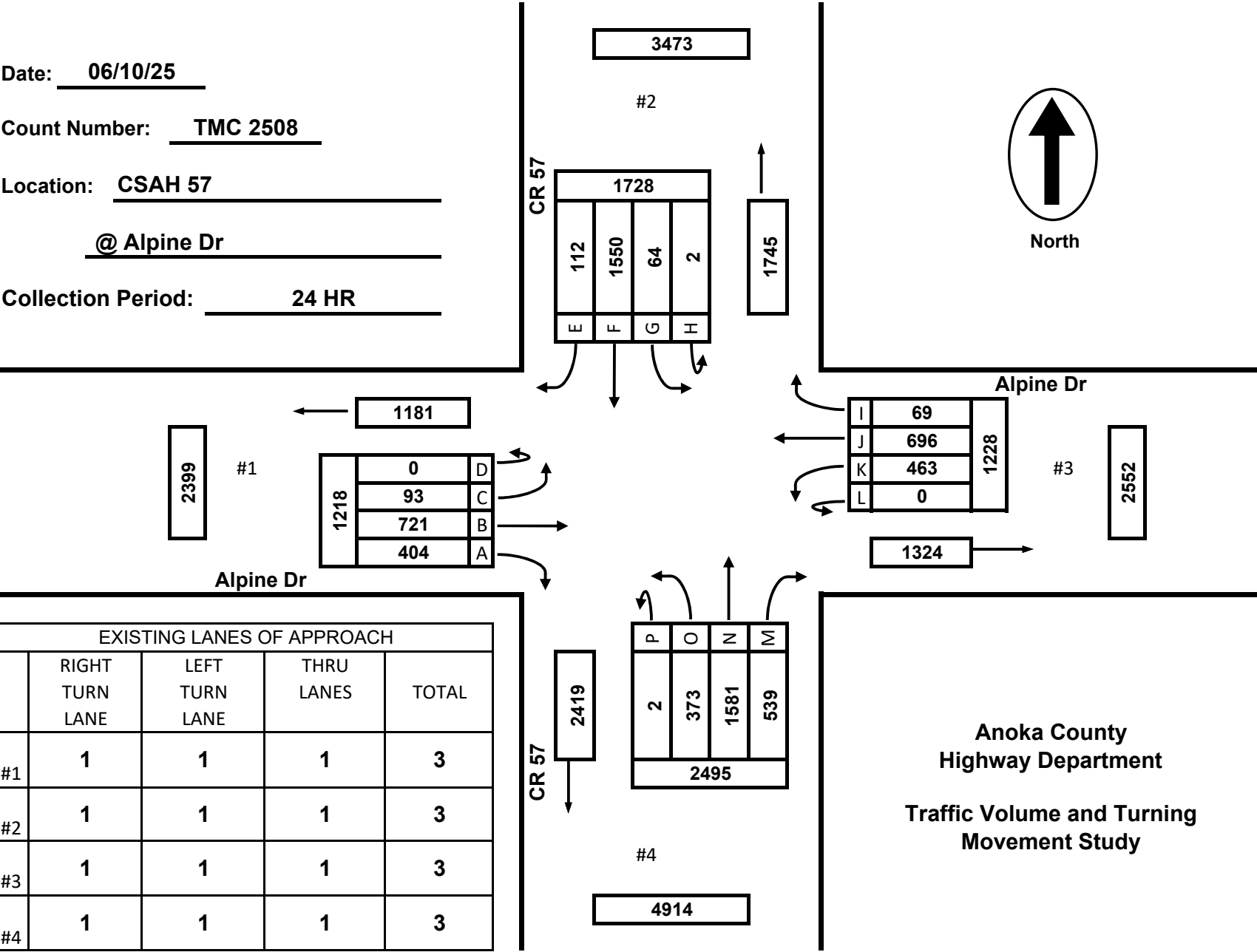
Date: 06/10/25

Count Number: TMC 2508

Location: CSAH 57

@ Alpine Dr

Collection Period: 24 HR



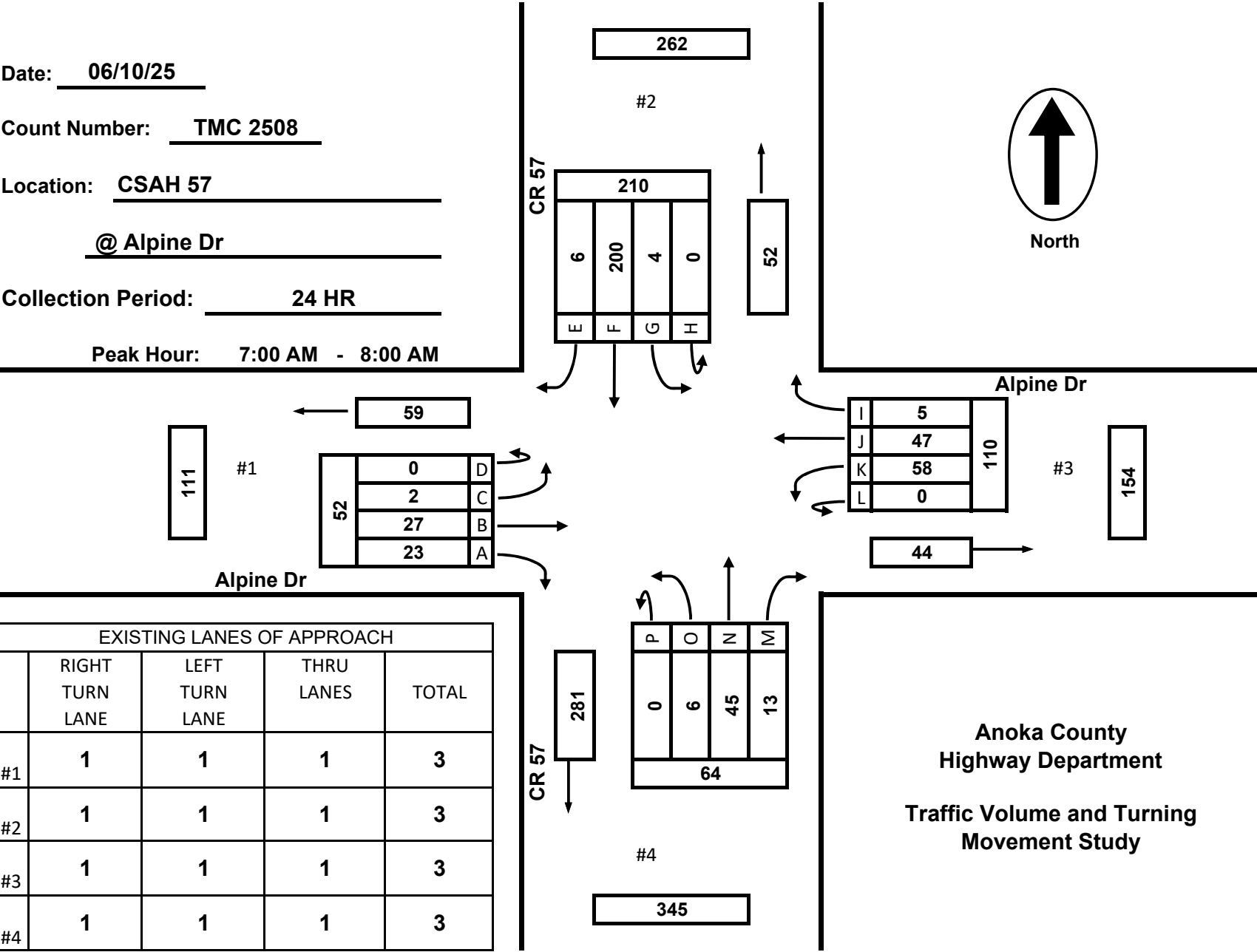
Date: 06/10/25

Count Number: TMC 2508

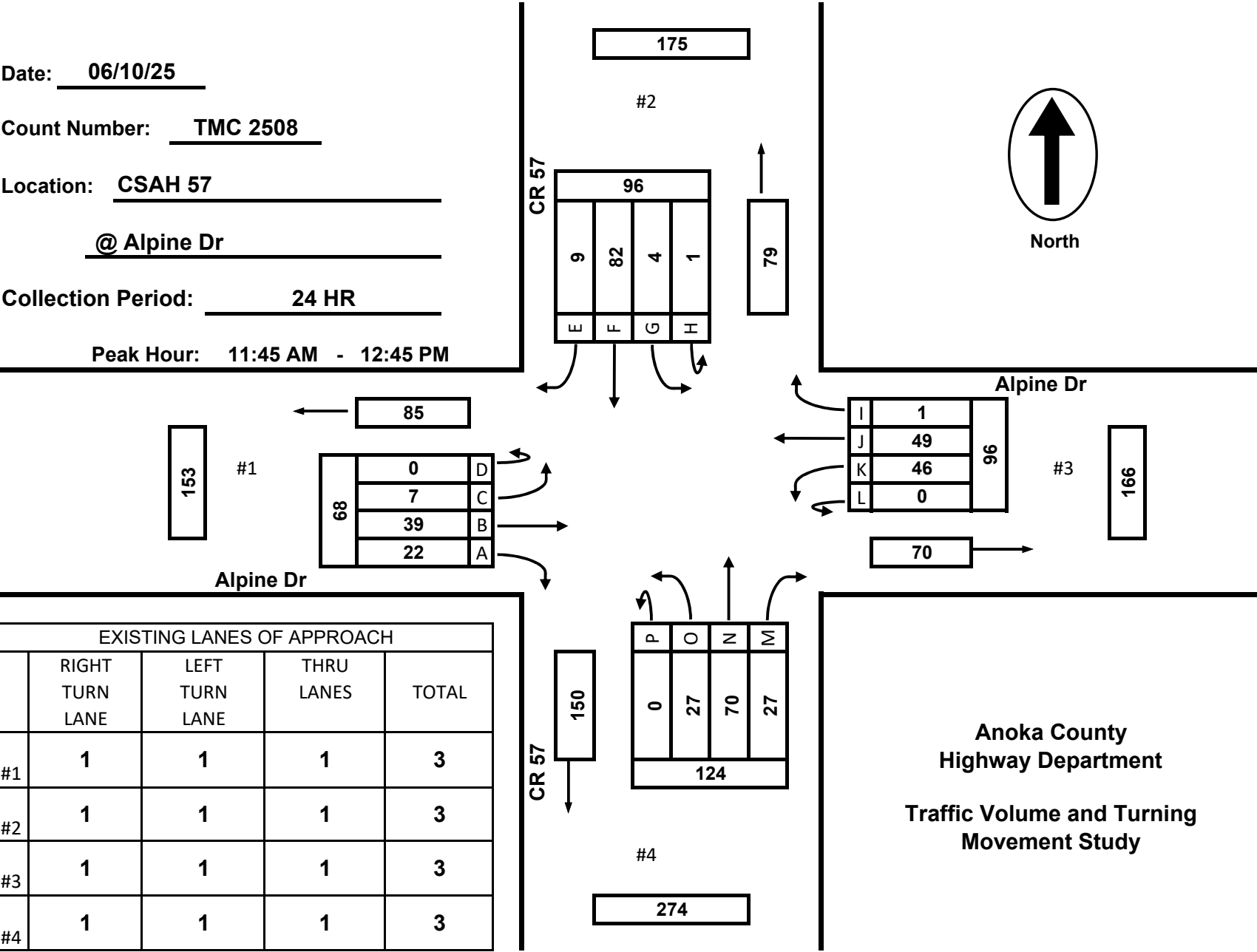
Location: CSAH 57
@ Alpine Dr

Collection Period: 24 HR

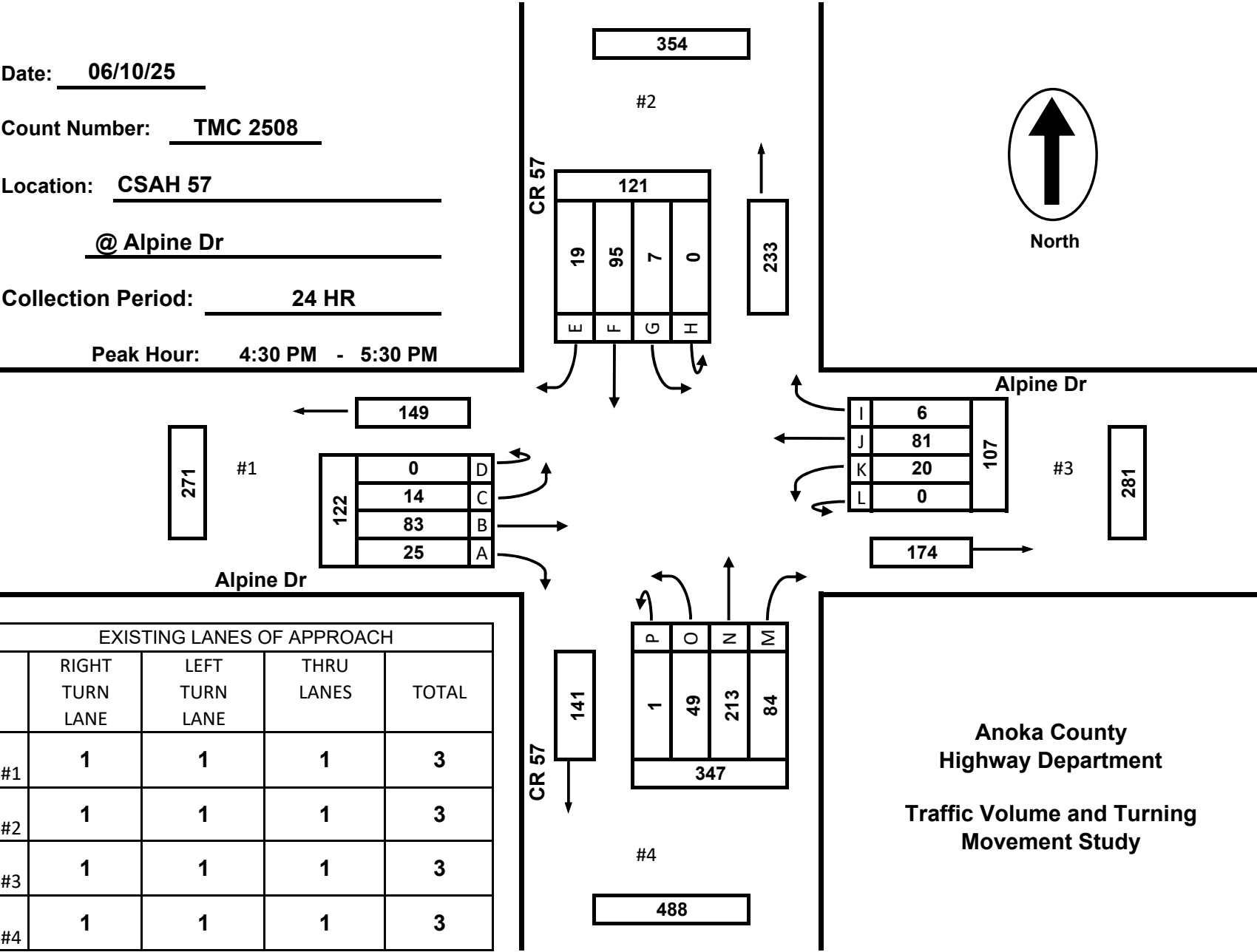
Peak Hour: 7:00 AM - 8:00 AM



Date: 06/10/25
 Count Number: TMC 2508
 Location: CSAH 57
@ Alpine Dr
 Collection Period: 24 HR
 Peak Hour: 11:45 AM - 12:45 PM



Date: 06/10/25
 Count Number: TMC 2508
 Location: CSAH 57
@ Alpine Dr
 Collection Period: 24 HR
 Peak Hour: 4:30 PM - 5:30 PM



TMC 2508 - CSAH 57 @ Alpine Dr
Ramsey MN
Tuesday, June 10, 2025

Time	Southbound CR 57						Westbound Alpine Dr						Northbound CR 57						Eastbound Alpine Dr						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	4	0	0	0	0	0	0	0	0	0	4	
12:15 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	1	
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	1	4	
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	2	
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	8	0	1	0	2	0	3	11
1:00 AM	0	0	2	0	0	2	0	0	1	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	1	5
1:15 AM	0	0	1	0	0	1	0	0	0	1	0	1	0	0	2	0	0	0	2	0	0	1	1	0	2	6
1:30 AM	0	0	2	0	0	2	0	0	1	0	0	1	0	0	2	0	0	0	2	0	0	0	0	0	0	5
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	2	3
Hourly Total	0	0	5	0	0	5	0	0	2	1	0	3	0	0	5	1	0	0	6	0	0	3	2	0	5	19
2:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	7	3	0	11	0	0	1	0	0	0	1	13
2:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	3
2:30 AM	0	0	1	0	0	1	0	0	2	0	0	2	0	0	2	1	0	3	0	1	0	1	0	0	2	8
2:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	1	3
Hourly Total	0	0	4	0	0	4	0	0	2	0	0	2	0	2	11	4	0	17	0	1	2	1	0	0	4	27
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
3:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
3:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	1	3
3:45 AM	0	0	2	0	0	2	0	2	0	0	0	2	0	1	0	0	0	1	0	0	0	1	0	0	1	6
Hourly Total	0	0	4	0	0	4	0	2	0	0	0	2	0	1	1	0	0	2	0	0	1	2	0	0	3	11
4:00 AM	0	0	5	0	0	5	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	3	9
4:15 AM	0	1	3	0	0	4	0	4	1	0	0	5	0	0	1	0	0	1	0	0	0	1	0	0	1	11
4:30 AM	0	0	14	0	0	14	0	7	0	0	0	7	0	0	1	0	0	1	0	0	0	0	0	0	0	22
4:45 AM	0	0	16	0	0	16	0	12	0	0	0	12	0	0	2	1	0	3	0	0	0	1	0	0	1	32
Hourly Total	0	1	38	0	0	39	0	23	2	0	0	25	0	0	4	1	0	5	0	0	0	5	0	0	5	74
5:00 AM	0	0	17	0	0	17	0	3	2	0	0	5	0	1	4	0	0	5	0	0	0	3	0	0	3	30
5:15 AM	0	0	35	0	0	35	0	6	2	0	0	8	0	1	3	1	0	5	0	0	0	4	0	0	4	52
5:30 AM	0	1	42	0	0	43	0	7	3	0	0	10	0	0	4	0	1	4	0	0	2	5	0	0	7	64
5:45 AM	0	0	45	1	0	46	0	12	3	0	0	15	0	2	9	1	0	12	0	0	7	3	0	0	10	83
Hourly Total	0	1	139	1	0	141	0	28	10	0	0	38	0	4	20	2	1	26	0	0	9	15	0	0	24	229
6:00 AM	0	1	47	1	0	49	0	6	3	0	1	9	0	1	5	1	0	7	0	0	3	5	0	0	8	73
6:15 AM	0	0	34	0	2	34	0	14	9	0	0	23	0	0	10	1	0	11	0	0	2	13	1	0	15	83
6:30 AM	0	0	53	0	0	53	0	8	10	0	0	18	0	3	9	0	0	12	0	1	2	9	0	0	12	95
6:45 AM	0	1	46	1	0	48	0	12	9	0	0	21	0	1	9	6	1	16	0	0	2	10	0	0	12	97
Hourly Total	0	2	180	2	2	184	0	40	31	0	1	71	0	5	33	8	1	46	0	1	9	37	1	0	47	348
7:00 AM	0	1	49	2	0	52	0	24	8	0	0	32	0	1	10	3	1	14	0	0	4	7	0	0	11	109
7:15 AM	0	0	48	1	0	49	0	13	7	1	0	21	0	2	11	4	0	17	0	1	2	5	0	0	8	95
7:30 AM	0	0	49	1	0	50	0	9	21	2	0	32	0	2	6	4	0	12	0	0	11	3	0	0	14	108
7:45 AM	0	3	54	2	0	59	0	12	11	2	0	25	0	1	18	2	0	21	0	1	10	8	0	0	19	124
Hourly Total	0	4	200	6	0	210	0	58	47	5	0	110	0	6	45	13	1	64	0	2	27	23	0	0	52	436

**TMC 2508 - CSAH 57 @ Alpine Dr
Ramsey MN
Tuesday, June 10, 2025**

Time	Southbound CR 57						Westbound Alpine Dr						Northbound CR 57						Eastbound Alpine Dr						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	27	0	0	27	0	10	5	0	0	15	0	2	6	7	3	15	0	0	10	7	0	17	74
8:15 AM	0	1	20	2	0	23	0	5	16	1	0	22	0	2	6	5	0	13	0	0	5	3	0	8	66
8:30 AM	0	0	25	0	0	25	0	6	9	0	0	15	0	5	14	3	0	22	0	0	5	8	0	13	75
8:45 AM	0	0	22	1	0	23	0	8	7	2	0	17	0	3	21	8	2	32	0	1	11	6	0	18	90
Hourly Total	0	1	94	3	0	98	0	29	37	3	0	69	0	12	47	23	5	82	0	1	31	24	0	56	305
9:00 AM	0	1	28	2	0	31	0	6	13	0	2	19	0	0	14	1	0	15	0	0	6	6	0	12	77
9:15 AM	0	1	25	4	1	30	0	4	5	2	1	11	0	5	13	2	1	20	0	1	5	1	0	7	68
9:30 AM	0	4	18	2	0	24	0	3	10	1	0	14	0	1	15	9	0	25	0	1	8	4	0	13	76
9:45 AM	0	2	21	2	0	25	0	7	3	1	0	11	0	7	11	6	0	24	0	0	11	5	0	16	76
Hourly Total	0	8	92	10	1	110	0	20	31	4	3	55	0	13	53	18	1	84	0	2	30	16	0	48	297
10:00 AM	0	0	23	2	1	25	0	2	7	2	0	11	0	3	14	6	4	23	0	2	13	3	1	18	77
10:15 AM	0	1	20	2	0	23	0	0	12	1	1	13	0	5	6	3	0	14	0	0	5	3	0	8	58
10:30 AM	0	0	14	0	0	14	0	7	2	1	0	10	0	10	7	5	0	22	0	1	6	9	0	16	62
10:45 AM	0	3	19	1	0	23	0	5	12	0	0	17	0	5	16	3	7	24	0	1	9	5	0	15	79
Hourly Total	0	4	76	5	1	85	0	14	33	4	1	51	0	23	43	17	11	83	0	4	33	20	1	57	276
11:00 AM	0	1	19	4	0	24	0	6	11	2	0	19	0	3	15	3	3	21	0	0	8	12	0	20	84
11:15 AM	0	2	19	2	0	23	0	5	8	1	0	14	0	8	16	5	2	29	0	0	8	1	0	9	75
11:30 AM	0	0	20	0	0	20	0	5	8	3	3	16	0	6	22	9	3	37	0	1	7	8	0	16	89
11:45 AM	0	0	16	3	1	19	0	12	9	0	0	21	0	7	21	5	0	33	0	0	15	8	0	23	96
Hourly Total	0	3	74	9	1	86	0	28	36	6	3	70	0	24	74	22	8	120	0	1	38	29	0	68	344
12:00 PM	1	0	17	4	0	22	0	12	18	0	1	30	0	5	16	15	1	36	0	5	8	3	0	16	104
12:15 PM	0	1	23	1	0	25	0	9	11	1	0	21	0	7	14	4	0	25	0	1	7	8	0	16	87
12:30 PM	0	3	26	1	0	30	0	13	11	0	0	24	0	8	19	3	0	30	0	1	9	3	0	13	97
12:45 PM	0	0	13	2	0	15	0	6	14	1	0	21	0	3	18	8	0	29	0	0	13	6	0	19	84
Hourly Total	1	4	79	8	0	92	0	40	54	2	1	96	0	23	67	30	1	120	0	7	37	20	0	64	372
1:00 PM	0	1	22	1	0	24	0	6	2	1	0	9	0	4	19	13	1	36	0	2	7	3	0	12	81
1:15 PM	0	1	20	3	0	24	0	6	11	1	0	18	0	5	21	3	0	29	0	2	6	9	0	17	88
1:30 PM	0	4	9	2	1	15	0	6	9	0	0	15	0	4	15	5	0	24	0	1	11	7	1	19	73
1:45 PM	0	0	19	0	0	19	0	4	12	1	0	17	0	4	20	4	0	28	0	1	14	3	0	18	82
Hourly Total	0	6	70	6	1	82	0	22	34	3	0	59	0	17	75	25	1	117	0	6	38	22	1	66	324
2:00 PM	0	2	11	4	0	17	0	6	19	1	0	26	0	7	27	11	1	45	0	4	11	12	0	27	115
2:15 PM	0	0	12	2	0	14	0	7	9	0	0	16	0	2	31	9	1	42	0	1	21	6	0	28	100
2:30 PM	0	1	12	2	0	15	0	4	19	3	0	26	0	10	35	15	0	60	0	5	10	7	0	22	123
2:45 PM	0	0	23	2	0	25	0	8	12	2	2	22	0	6	36	15	1	57	0	2	16	4	0	22	126
Hourly Total	0	3	58	10	0	71	0	25	59	6	2	90	0	25	129	50	3	204	0	12	58	29	0	99	464
3:00 PM	0	1	15	0	0	16	0	5	16	1	2	22	0	13	26	16	0	55	0	0	10	4	0	14	107
3:15 PM	0	1	20	1	0	22	0	8	9	3	1	20	0	10	39	9	1	58	0	3	8	7	0	18	118
3:30 PM	0	2	22	2	0	26	0	2	10	0	0	12	0	7	52	26	0	85	0	1	20	7	0	28	151
3:45 PM	0	2	18	2	0	22	0	2	8	2	0	12	0	14	54	10	0	78	0	0	11	3	0	14	126
Hourly Total	0	6	75	5	0	86	0	17	43	6	3	66	0	44	171	61	1	276	0	4	49	21	0	74	502

**TMC 2508 - CSAH 57 @ Alpine Dr
Ramsey MN
Tuesday, June 10, 2025**

Time	Southbound CR 57						Westbound Alpine Dr						Northbound CR 57						Eastbound Alpine Dr						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	1	0	19	1	1	21	0	2	6	1	3	9	0	11	58	19	1	88	0	2	16	5	0	23	141
4:15 PM	0	0	24	4	1	28	0	6	17	1	0	24	0	9	49	14	0	72	0	4	11	8	1	23	147
4:30 PM	0	0	33	4	0	37	0	4	16	1	1	21	0	14	76	28	2	118	0	1	16	7	0	24	200
4:45 PM	0	4	19	6	0	29	0	4	24	1	0	29	0	17	49	19	0	85	0	5	24	9	0	38	181
Hourly Total	1	4	95	15	2	115	0	16	63	4	4	83	0	51	232	80	3	363	0	12	67	29	1	108	669
5:00 PM	0	2	21	2	0	25	0	5	9	2	0	16	1	12	45	26	0	84	0	4	18	7	0	29	154
5:15 PM	0	1	22	7	0	30	0	7	32	2	0	41	0	6	43	11	1	60	0	4	25	2	0	31	162
5:30 PM	0	2	22	2	0	26	0	10	21	2	0	33	0	16	45	17	0	78	0	4	24	5	0	33	170
5:45 PM	0	1	22	5	0	28	0	8	22	0	4	30	0	13	40	8	5	61	0	1	16	5	0	22	141
Hourly Total	0	6	87	16	0	109	0	30	84	6	4	120	1	47	173	62	6	283	0	13	83	19	0	115	627
6:00 PM	0	1	14	3	0	18	0	8	17	0	0	25	0	9	33	17	2	59	0	3	20	5	4	28	130
6:15 PM	0	1	12	1	0	14	0	7	8	1	5	16	0	2	34	8	3	44	0	1	21	7	2	29	103
6:30 PM	0	0	14	1	0	15	0	6	10	1	1	17	0	6	33	5	4	44	0	1	8	2	0	11	87
6:45 PM	0	1	9	0	0	10	0	3	10	1	3	14	0	3	27	9	8	39	0	1	11	2	0	14	77
Hourly Total	0	3	49	5	0	57	0	24	45	3	9	72	0	20	127	39	17	186	0	6	60	16	6	82	397
7:00 PM	0	0	10	3	1	13	0	5	7	1	0	13	0	6	19	9	0	34	0	0	10	8	0	18	78
7:15 PM	0	0	15	1	0	16	0	6	7	4	0	17	0	11	22	11	1	44	0	1	14	2	1	17	94
7:30 PM	0	2	18	2	0	22	0	5	7	2	2	14	0	4	24	8	6	36	0	1	17	9	4	27	99
7:45 PM	0	1	6	0	0	7	0	5	5	1	0	11	0	5	17	5	0	27	0	3	18	10	0	31	76
Hourly Total	0	3	49	6	1	58	0	21	26	8	2	55	0	26	82	33	7	141	0	5	59	29	5	93	347
8:00 PM	0	0	7	2	0	9	0	2	7	1	0	10	0	2	20	2	2	24	0	3	16	18	0	37	80
8:15 PM	0	0	14	0	0	14	0	2	8	0	0	10	0	6	15	8	4	29	0	4	12	2	0	18	71
8:30 PM	0	2	8	0	0	10	0	2	6	1	0	9	0	2	22	6	0	30	0	3	16	6	0	25	74
8:45 PM	0	0	3	1	0	4	0	7	5	1	0	13	0	2	25	9	0	36	0	2	10	7	0	19	72
Hourly Total	0	2	32	3	0	37	0	13	26	3	0	42	0	12	82	25	6	119	0	12	54	33	0	99	297
9:00 PM	0	0	4	1	0	5	0	3	7	0	0	10	0	2	15	3	0	20	0	2	9	2	0	13	48
9:15 PM	0	3	10	0	0	13	0	1	4	1	0	6	0	2	22	3	0	27	0	1	3	1	0	5	51
9:30 PM	0	0	9	0	0	9	0	2	2	1	0	5	0	1	19	3	1	23	0	0	9	1	0	10	47
9:45 PM	0	0	13	0	0	13	0	1	3	2	0	6	0	0	7	2	0	9	0	0	2	0	0	2	30
Hourly Total	0	3	36	1	0	40	0	7	16	4	0	27	0	5	63	11	1	79	0	3	23	4	0	30	176
10:00 PM	0	0	5	0	0	5	0	1	2	0	0	3	0	4	6	1	0	11	0	0	2	0	0	2	21
10:15 PM	0	0	5	0	0	5	0	1	4	0	0	5	1	2	8	2	0	13	0	0	2	1	0	3	26
10:30 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	1	5	2	0	8	0	0	4	0	0	4	14
10:45 PM	0	0	3	1	0	4	0	1	4	0	0	5	0	1	6	1	0	8	0	0	1	2	0	3	20
Hourly Total	0	0	13	1	0	14	0	3	12	0	0	15	1	8	25	6	0	40	0	0	9	3	0	12	81
11:00 PM	0	0	0	0	0	0	0	1	2	0	0	3	0	1	4	2	0	7	0	0	0	2	0	2	12
11:15 PM	0	0	1	0	1	1	0	0	1	1	0	2	0	1	3	0	0	4	0	0	1	1	0	2	9
11:30 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	3	0	5	0	0	0	0	0	0	6
11:45 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	2	3	3	0	8	0	0	0	0	0	0	9
Hourly Total	0	0	1	0	1	1	0	3	3	1	0	7	0	5	11	8	0	24	0	0	1	3	0	4	36
DAILY TOTAL	2	64	1550	112	10	1728	0	463	696	69	33	1228	2	373	1581	539	74	2495	0	93	721	404	15	1218	6669
Cars	2	60	1498	110	5	1670	0	449	626	64	23	1139	2	366	1548	522	34	2438	0	92	652	402	8	1146	6393
Heavy Vehicles	0	4	52	2	5	58	0	14	70	5	10	89	0	7	33	17	40	57	0	1	69	2	7	72	276
Heavy Vehicle %	0.00%	6.25%	3.35%	1.79%	50.00%	3.36%	0.00%	3.02%	10.06%	7.25%	30.30%	7.25%	0.00%	1.88%	2.09%	3.15%	54.05%	2.28%	0.00%	1.08%	9.57%	0.50%	46.67%	5.91%	4.14%

TMC 2508 - CSAH 57 @ Alpine Dr
Ramsey MN
Tuesday, June 10, 2025
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	
7:00 AM	0	1	49	2	0	52	0	24	8	0	0	32	0	1	10	3	1	14	0	0	4	7	0	11	109
7:15 AM	0	0	48	1	0	49	0	13	7	1	0	21	0	2	11	4	0	17	0	1	2	5	0	8	95
7:30 AM	0	0	49	1	0	50	0	9	21	2	0	32	0	2	6	4	0	12	0	0	11	3	0	14	108
7:45 AM	0	3	54	2	0	59	0	12	11	2	0	25	0	1	18	2	0	21	0	1	10	8	0	19	124
Peak Hour Total	0	4	200	6	0	210	0	58	47	5	0	110	0	6	45	13	1	64	0	2	27	23	0	52	436
Peak Hour Heavy Vehicles	0	1	13	0	0	14	0	1	2	2	0	5	0	2	3	3	0	8	0	1	3	0	0	4	31
Peak Hour Heavy Vehicles %	0.00%	25.00%	6.50%	0.00%	0.00%	6.67%	0.00%	1.72%	4.26%	40.00%	0.00%	4.55%	0.00%	33.33%	6.67%	23.08%	0.00%	12.50%	0.00%	50.00%	11.11%	0.00%	0.00%	7.69%	7.11%
PHF	0.000	0.333	0.926	0.750	0.000	0.890	0.000	0.604	0.560	0.625	0.000	0.859	0.000	0.750	0.625	0.813	0.250	0.762	0.000	0.500	0.614	0.719	0.000	0.684	0.879

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	
11:45 AM	0	0	16	3	1	19	0	12	9	0	0	21	0	7	21	5	0	33	0	0	15	8	0	23	96
12:00 PM	1	0	17	4	0	22	0	12	18	0	1	30	0	5	16	15	1	36	0	5	8	3	0	16	104
12:15 PM	0	1	23	1	0	25	0	9	11	1	0	21	0	7	14	4	0	25	0	1	7	8	0	16	87
12:30 PM	0	3	26	1	0	30	0	13	11	0	0	24	0	8	19	3	0	30	0	1	9	3	0	13	97
Peak Hour Total	1	4	82	9	1	96	0	46	49	1	1	96	0	27	70	27	1	124	0	7	39	22	0	68	384
Peak Hour Heavy Vehicles	0	0	5	0	1	5	0	2	6	0	0	8	0	0	3	0	1	3	0	0	7	0	0	7	23
Peak Hour Heavy Vehicles %	0.00%	0.00%	6.10%	0.00%	100.00%	5.21%	0.00%	4.35%	12.24%	0.00%	0.00%	8.33%	0.00%	0.00%	4.29%	0.00%	100.00%	2.42%	0.00%	0.00%	17.95%	0.00%	0.00%	10.29%	5.99%
PHF	0.250	0.333	0.788	0.563	0.250	0.800	0.000	0.885	0.681	0.250	0.250	0.800	0.000	0.844	0.833	0.450	0.250	0.861	0.000	0.350	0.650	0.688	0.000	0.739	0.923

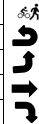
PM Peak Hour (14:00 - 24:00)

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	
4:30 PM	0	0	33	4	0	37	0	4	16	1	1	21	0	14	76	28	2	118	0	1	16	7	0	24	200
4:45 PM	0	4	19	6	0	29	0	4	24	1	0	29	0	17	49	19	0	85	0	5	24	9	0	38	181
5:00 PM	0	2	21	2	0	25	0	5	9	2	0	16	1	12	45	26	0	84	0	4	18	7	0	29	154
5:15 PM	0	1	22	7	0	30	0	7	32	2	0	41	0	6	43	11	1	60	0	4	25	2	0	31	162
Peak Hour Total	0	7	95	19	0	121	0	20	81	6	1	107	1	49	213	84	3	347	0	14	83	25	0	122	697
Peak Hour Heavy Vehicles	0	0	1	0	0	1	0	0	7	0	0	7	0	1	4	0	0	5	0	0	8	0	0	8	21
Peak Hour Heavy Vehicles %	0.00%	0.00%	1.05%	0.00%	0.00%	0.83%	0.00%	0.00%	8.64%	0.00%	0.00%	6.54%	0.00%	2.04%	1.88%	0.00%	0.00%	1.44%	0.00%	0.00%	9.64%	0.00%	0.00%	6.56%	3.01%
PHF	0.000	0.438	0.720	0.679	0.000	0.818	0.000	0.714	0.633	0.750	0.250	0.652	0.250	0.721	0.701	0.750	0.375	0.735	0.000	0.700	0.830	0.694	0.000	0.803	0.871

Total Vehicles On Leg			3473		
Vehicles Entering Intersection 1728			Vehicles Exiting Intersection 1745		
Southbound					
Cars	110	1498	60	2	5
Heavy	2	52	4	0	5
Total	112	1550	64	2	10

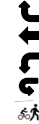


Total Vehicles on Leg 2399	Vehicles Entering Intersection 1218	Eastbound	Cars	Heavy	Total
			8	7	15
			0	0	0
	Vehicles Exiting Intersection 1181		92	1	93
			652	69	721
			402	2	404



Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 1228	Total Vehicles on Leg 2552
64	5	69			
626	70	696			
449	14	463			
0	0	0			
23	10	33			



Cars	34	2	366	1548	522
Heavy	40	0	33	7	17
Total	74	2	373	1581	539
Northbound					
Vehicles Entering Intersection			Vehicles Exiting Intersection		
2495			2419		
Total Vehicles On Leg			4914		

TMC 2508 - CSAH 57 @ Alpine Dr
Ramsay MN
Tuesday, June 10, 2025

Time	Southbound Heavy CR 57						Westbound Heavy Alpine Dr						Northbound Heavy CR 57						Eastbound Heavy Alpine Dr						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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 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
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	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
4:00 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
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	1	0	1	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	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
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	0	0	1	0	1	0	0	0	0	0	0	1
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
5:45 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	1	1	1	0	0	0	0	0	0	1
6:00 AM	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
6:15 AM	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
6:30 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	2
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	3	0	2	3	0	1	0	0	1	1	0	1	0	2	0	3	0	0	0	0	1	0	7
7:00 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	7
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	5	0	1	0	0	0	1	6
7:30 AM	0	0	1	0	0	1	0	1	2	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	5
7:45 AM	0	1	6	0	0	7	0	0	0	2	0	2	0	0	1	1	0	2	0	0	2	0	0	2	13
Hourly 'Heavy Vehicles'	0	1	13	0	0	14	0	1	2	2	0	5	0	2	3	3	0	8	0	1	3	0	0	4	31

**TMC 2508 - CSAH 57 @ Alpine Dr
Ramsay MN
Tuesday, June 10, 2025**

Time	Southbound Heavy CR 57						Westbound Heavy Alpine Dr						Northbound Heavy CR 57						Eastbound Heavy Alpine Dr						VEHICLE 'Heavy Vehicles'
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	
8:00 AM	0	0	1	0	0	1	0	1	1	0	0	2	0	0	0	1	3	1	0	0	2	0	0	2	6
8:15 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	1	0	1	0	0	2	0	0	2	5
8:30 AM	0	0	0	0	0	0	0	2	2	0	0	4	0	0	0	1	0	1	0	0	0	0	0	0	5
8:45 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	2	0	2	0	0	3	0	0	3	7
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	3	7	0	0	10	0	0	0	5	3	5	0	0	7	0	0	7	23
9:00 AM	0	0	1	0	0	1	0	1	3	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	7
9:15 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	1	1	0	0	2	0	0	1	0	0	1	6
9:30 AM	0	0	0	1	0	1	0	0	2	1	0	3	0	0	2	1	0	3	0	0	2	0	0	2	9
9:45 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
Hourly 'Heavy Vehicles'	0	0	2	1	0	3	0	1	9	1	0	11	0	1	3	1	0	5	0	0	8	0	0	8	27
10:00 AM	0	0	2	0	1	2	0	0	2	1	0	3	0	0	1	1	4	2	0	0	3	0	1	3	10
10:15 AM	0	0	1	1	0	2	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	6
10:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	1	0	0	2	0	0	2	2	0	4	8
10:45 AM	0	0	2	0	0	2	0	1	2	0	0	3	0	0	1	0	7	1	0	0	1	0	0	1	7
Hourly 'Heavy Vehicles'	0	0	7	1	1	8	0	1	7	1	0	9	0	1	3	1	11	5	0	0	7	2	1	9	31
11:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2	0	0	0	1	0	0	1	2
11:15 AM	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	1	0	0	0	2	0	0	2	5
11:30 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
11:45 AM	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	5
Hourly 'Heavy Vehicles'	0	0	2	0	1	2	0	0	4	1	0	5	0	0	0	0	3	0	0	0	7	0	0	7	14
12:00 PM	0	0	1	0	0	1	0	2	3	0	0	5	0	0	1	0	1	1	0	0	0	0	0	0	7
12:15 PM	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	3
12:30 PM	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2	8
12:45 PM	0	0	1	0	0	1	0	0	2	0	0	2	0	0	1	0	0	1	0	0	1	0	0	1	5
Hourly 'Heavy Vehicles'	0	0	5	0	0	5	0	2	8	0	0	10	0	0	4	0	1	4	0	0	4	0	0	4	23
1:00 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	1	1	0	0	1	0	0	1	4
1:15 PM	0	0	1	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2	0	0	1	0	0	1	5
1:30 PM	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	4
1:45 PM	0	0	1	0	0	1	0	1	1	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	5
Hourly 'Heavy Vehicles'	0	0	4	0	0	4	0	2	3	0	0	5	0	0	3	0	1	3	0	0	6	0	0	6	18
2:00 PM	0	0	1	0	0	1	0	0	5	0	0	5	0	0	3	0	0	3	0	0	0	0	0	0	9
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	4	0	0	4	5
2:30 PM	0	0	1	0	0	1	0	0	4	0	0	4	0	0	1	1	0	2	0	0	0	0	0	0	7
2:45 PM	0	0	2	0	0	2	0	1	0	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2	6
Hourly 'Heavy Vehicles'	0	0	4	0	0	4	0	1	9	0	0	10	0	0	6	1	1	7	0	0	6	0	0	6	27
3:00 PM	0	1	1	0	0	2	0	0	4	0	1	4	0	0	1	2	0	3	0	0	2	0	0	2	11
3:15 PM	0	1	1	0	0	2	0	0	2	0	0	2	0	0	0	0	1	0	0	0	1	0	0	1	5
3:30 PM	0	1	0	0	0	1	0	1	3	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	7
3:45 PM	0	0	3	0	0	3	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	7
Hourly 'Heavy Vehicles'	0	3	5	0	0	8	0	1	11	0	1	12	0	0	1	2	1	3	0	0	7	0	0	7	30

TMC 2508 - CSAH 57 @ Alpine Dr
Ramsey MN
Tuesday, June 10, 2025

Time	Southbound Heavy CR 57						Westbound Heavy Alpine Dr						Northbound Heavy CR 57						Eastbound Heavy Alpine Dr						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	0	1	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	0	0	0	2	3
4:15 PM	0	0	1	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	1	1	5	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	3	0	0	3	0	0	3	6	
4:45 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	1	0	0	1	0	0	1	0	0	1	6	
Hourly 'Heavy Vehicles'	0	0	2	0	1	2	0	0	7	0	1	7	0	1	3	0	3	4	0	0	7	0	1	7	20	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	3	0	0	3	4	
5:15 PM	0	0	1	0	0	1	0	0	3	0	0	3	0	0	0	0	1	0	0	0	1	0	0	1	5	
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	3	0	0	3	4	
5:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	0	0	2	0	0	2	0	0	3	0	0	3	0	0	2	0	2	2	0	0	7	0	0	7	14	
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	1	
6:15 PM	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
6:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
6:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	5	0	0	1	0	0	5	1	0	0	0	0	1	0	2	
7:00 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	
7:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	0	2	
7:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	2	1	0	0	0	0	2	0	1	
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	1	0	0	1	0	1	0	0	2	1	0	0	3	0	3	3	0	0	0	0	3	0	5	
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	1	0	4	1	0	0	0	0	0	0	1	
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	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	5	2	0	0	0	0	0	0	2	
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	
DAILY 'Heavy Vehicles'	0	4	52	2	5	58	0	14	70	5	10	89	0	7	33	17	40	57	0	1	69	2	7	72	276	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2508

Study Date : 08/08/2025

Signal Warrants - Summary

Major Street Approaches

Northbound: CR 57

Number of Lanes : 2+

Total Approach Volume: 2,495

Southbound: CR 57

Number of Lanes :2+

Total Approach Volume: 1,728

Minor Street Approaches

Eastbound: Alpine Dr

Number of Lanes :2+

Total Approach Volume: 814

Westbound: Alpine Dr

Number of Lanes :2+

Total Approach Volume: 1,159

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 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 2508

Study Date : 08/08/2025

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 = **2 or more**
Number of Minor Lanes = **2 or more**

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **420**

Veh/Hr Minor = **140**

Major Road						Minor Road			
CR 57						Alpine Dr			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:00 - 17:00	363	+	115	=	478	79	79	No	
16:15 - 17:15	359	+	119	=	478	83	85	No	
16:30 - 17:30	347	+	121	=	468	97	101	No	
15:45 - 16:45	356	+	108	=	464	61	61	No	
15:30 - 16:30	323	+	97	=	420	65	53	No	
16:45 - 17:45	307	+	110	=	417	108	112	No	
15:15 - 16:15	309	+	91	=	400	61	47	No	
17:00 - 18:00	283	+	109	=	392	96	114	No	
15:00 - 16:00	276	+	86	=	362	53	60	No	
17:15 - 18:15	258	+	102	=	360	97	125	No	
14:45 - 15:45	255	+	89	=	344	60	70	No	
17:30 - 18:30	242	+	86	=	328	90	101	No	
14:30 - 15:30	230	+	78	=	308	54	81	No	
14:15 - 15:15	214	+	70	=	284	65	80	No	
17:45 - 18:45	208	+	75	=	283	71	86	No	
14:00 - 15:00	204	+	71	=	275	70	84	No	
07:00 - 08:00	64	+	210	=	274	29	105	No	
06:30 - 07:30	59	+	202	=	261	12	91	No	
06:45 - 07:45	59	+	199	=	258	20	103	No	
07:15 - 08:15	65	+	185	=	250	35	88	No	
18:00 - 19:00	186	+	57	=	243	66	69	No	
13:45 - 14:45	175	+	65	=	240	67	80	No	
06:15 - 07:15	53	+	187	=	240	11	94	No	
06:00 - 07:00	46	+	184	=	230	10	71	No	
05:45 - 06:45	42		182		224	15	65	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2508

Study Date : 08/08/2025

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 = **2 or more**
Number of Minor Lanes = **2 or more**

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **630**

Veh/Hr Minor = **70**

Major Road						Minor Road		
CR 57						Alpine Dr		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:00 - 17:00	363	+	115	=	478	79	79	No
16:15 - 17:15	359	+	119	=	478	83	85	No
16:30 - 17:30	347	+	121	=	468	97	101	No
15:45 - 16:45	356	+	108	=	464	61	61	No
15:30 - 16:30	323	+	97	=	420	65	53	No
16:45 - 17:45	307	+	110	=	417	108	112	No
15:15 - 16:15	309	+	91	=	400	61	47	No
17:00 - 18:00	283	+	109	=	392	96	114	No
15:00 - 16:00	276	+	86	=	362	53	60	No
17:15 - 18:15	258	+	102	=	360	97	125	No
14:45 - 15:45	255	+	89	=	344	60	70	No
17:30 - 18:30	242	+	86	=	328	90	101	No
14:30 - 15:30	230	+	78	=	308	54	81	No
14:15 - 15:15	214	+	70	=	284	65	80	No
17:45 - 18:45	208	+	75	=	283	71	86	No
14:00 - 15:00	204	+	71	=	275	70	84	No
07:00 - 08:00	64	+	210	=	274	29	105	No
06:30 - 07:30	59	+	202	=	261	12	91	No
06:45 - 07:45	59	+	199	=	258	20	103	No
07:15 - 08:15	65	+	185	=	250	35	88	No
18:00 - 19:00	186	+	57	=	243	66	69	No
13:45 - 14:45	175	+	65	=	240	67	80	No
06:15 - 07:15	53	+	187	=	240	11	94	No
06:00 - 07:00	46	+	184	=	230	10	71	No
05:45 - 06:45	42		182		224	15	65	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2508

Study Date : 08/08/2025

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 0 hours meet 1B minimums.
Warrant is NOT 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 = **336 504**
Veh/Hr Minor = **112 56**

Major Road						Minor Road			
CR 57						Alpine Dr			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?	
16:45 - 17:45	307	+	110	=	417	108	112	Yes	
16:15 - 17:15	359	+	119	=	478	83	85	No	
16:00 - 17:00	363	+	115	=	478	79	79	No	
16:30 - 17:30	347	+	121	=	468	97	101	No	
15:45 - 16:45	356	+	108	=	464	61	61	No	
15:30 - 16:30	323	+	97	=	420	65	53	No	
15:15 - 16:15	309	+	91	=	400	61	47	No	
15:00 - 16:00	276	+	86	=	362	53	60	No	
14:45 - 15:45	255	+	89	=	344	60	70	No	
14:30 - 15:30	230	+	78	=	308	54	81	No	
14:15 - 15:15	214	+	70	=	284	65	80	No	
17:45 - 18:45	208		75		283	71	86	No	

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?	
16:15 - 17:15	359	+	119	=	478	83	85	No	
16:00 - 17:00	363	+	115	=	478	79	79	No	
16:30 - 17:30	347	+	121	=	468	97	101	No	
15:45 - 16:45	356	+	108	=	464	61	61	No	
15:30 - 16:30	323	+	97	=	420	65	53	No	
16:45 - 17:45	307	+	110	=	417	108	112	No	
15:15 - 16:15	309	+	91	=	400	61	47	No	
17:00 - 18:00	283	+	109	=	392	96	114	No	
15:00 - 16:00	276	+	86	=	362	53	60	No	
17:15 - 18:15	258	+	102	=	360	97	125	No	
14:45 - 15:45	255	+	89	=	344	60	70	No	
17:30 - 18:30	242		86		328	90	101	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2508

Study Date : 08/08/2025

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.

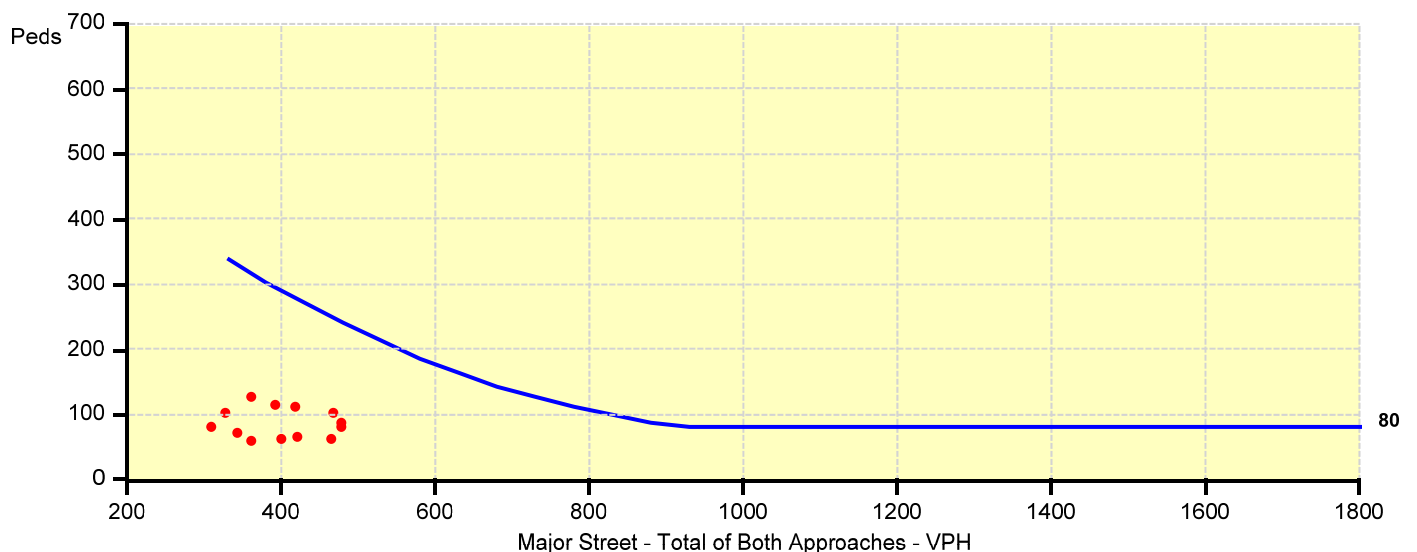
Summary

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

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **2 or more**

Major Road CR 57						Minor Road Alpine Dr		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:00 - 17:00	363	+	115	=	478	79	79	No
16:15 - 17:15	359	+	119	=	478	83	85	No
16:30 - 17:30	347	+	121	=	468	97	101	No
15:45 - 16:45	356	+	108	=	464	61	61	No
15:30 - 16:30	323	+	97	=	420	65	53	No
16:45 - 17:45	307	+	110	=	417	108	112	No
15:15 - 16:15	309	+	91	=	400	61	47	No
17:00 - 18:00	283	+	109	=	392	96	114	No
15:00 - 16:00	276	+	86	=	362	53	60	No
17:15 - 18:15	258	+	102	=	360	97	125	No
14:45 - 15:45	255	+	89	=	344	60	70	No
17:30 - 18:30	242	+	86	=	328	90	101	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2508

Study Date : 08/08/2025

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.

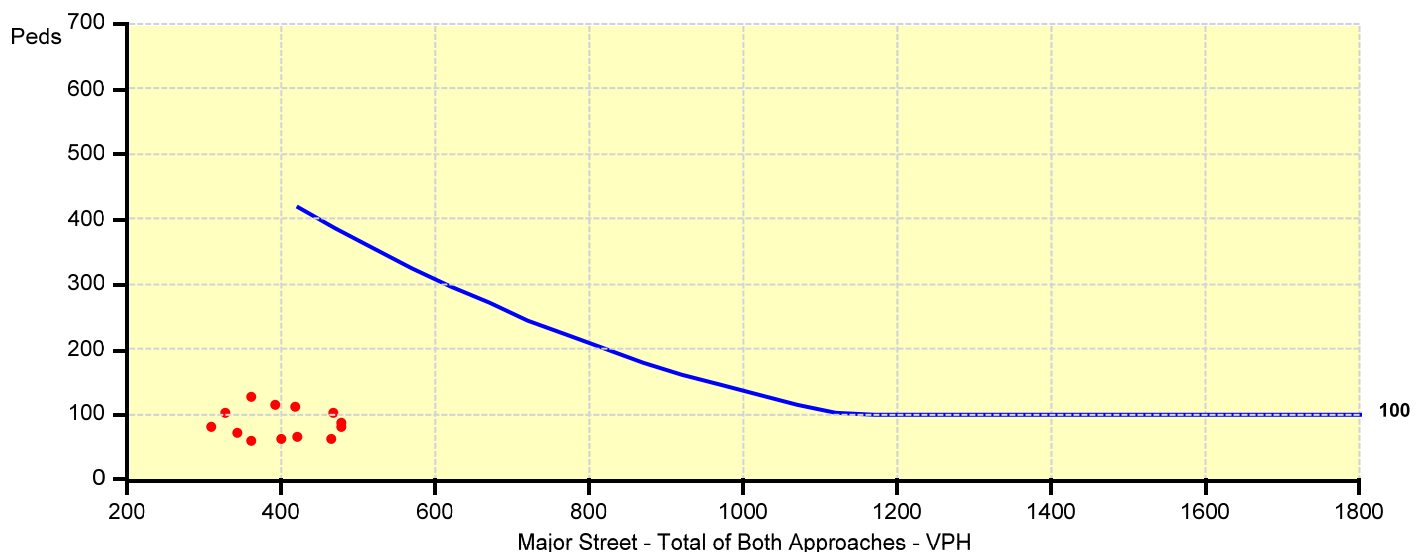
Summary

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

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **2 or more**

Major Road CR 57						Minor Road Alpine Dr		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:00 - 17:00	363	+	115	=	478	79	79	No
16:15 - 17:15	359	+	119	=	478	83	85	No
16:30 - 17:30	347	+	121	=	468	97	101	No
15:45 - 16:45	356	+	108	=	464	61	61	No
15:30 - 16:30	323	+	97	=	420	65	53	No
16:45 - 17:45	307	+	110	=	417	108	112	No
15:15 - 16:15	309	+	91	=	400	61	47	No
17:00 - 18:00	283	+	109	=	392	96	114	No
15:00 - 16:00	276	+	86	=	362	53	60	No
17:15 - 18:15	258	+	102	=	360	97	125	No
14:45 - 15:45	255	+	89	=	344	60	70	No
17:30 - 18:30	242	+	86	=	328	90	101	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2508

Study Date : 08/08/2025

Multiway Stop Warrants - Summary

Major Street Approaches

Northbound: CR 57

Number of Lanes : 2+

Total Approach Volume: 2,495

Southbound: CR 57

Number of Lanes :2+

Total Approach Volume: 1,728

Minor Street Approaches

Eastbound: Alpine Dr

Number of Lanes :2+

Total Approach Volume: 814

Westbound: Alpine Dr

Number of Lanes :2+

Total Approach Volume: 1,159

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..... **Satisfied**
Average of 8 highest hours meets or exceeds 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?
16:30 - 17:30	468	304.5	207	153.1	210	140	Yes
15:30 - 16:30	420		131				
17:30 - 18:30	328		210				
14:30 - 15:30	308		148				
07:00 - 08:00	274		134				
11:45 - 12:45	220		143				
13:30 - 14:30	204		142				
18:45 - 19:45	214		110				
06:00 - 07:00	230		81				
10:45 - 11:45	201		108				
08:45 - 09:45	200		100				
19:45 - 20:45	150		112				

Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
16:30 - 17:30	468	304.5	207	153.1	240	160	No
15:30 - 16:30	420		131				
17:30 - 18:30	328		210				
14:30 - 15:30	308		148				
07:00 - 08:00	274		134				
11:45 - 12:45	220		143				
13:30 - 14:30	204		142				
18:45 - 19:45	214		110				
06:00 - 07:00	230		81				
10:45 - 11:45	201		108				
08:45 - 09:45	200		100				
19:45 - 20:45	150		112				