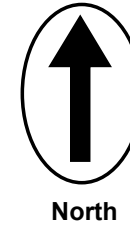


Date: 07/09/24

Count Number: TMC 2424

Location: CSAH 7
@ Bob Ehlen Dr

Collection Period: 24 HR



North

14178

#2

CSAH 7

6788			
113	6339	336	0
E	F	G	H

7390

Bob Ehlen Dr

I	293	654
J	5	
K	356	
L	0	

#3

1414

760

370

#1

135

235	0	D
	217	C
	2	B
	16	A

Bob Ehlen Dr

P	O	Z	M
0	17	6880	422
7319			

#4

14030

CSAH 7

6711

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

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

Date: 07/09/24

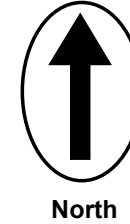
Count Number: TMC 2424

Location: CSAH 7

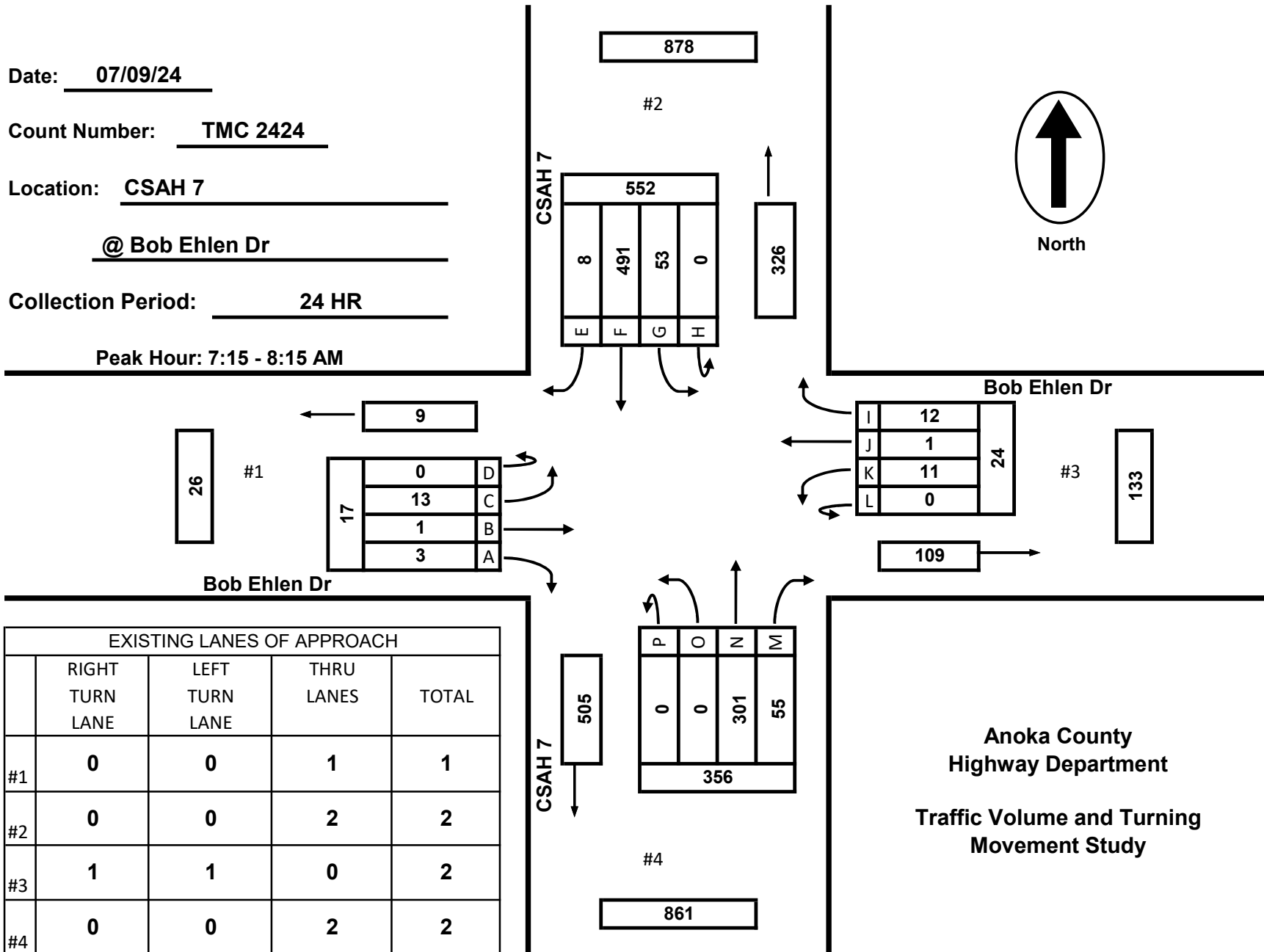
@ Bob Ehlen Dr

Collection Period: 24 HR

Peak Hour: 7:15 - 8:15 AM



North



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

Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

Date: 07/09/24

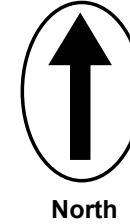
Count Number: TMC 2424

Location: CSAH 7

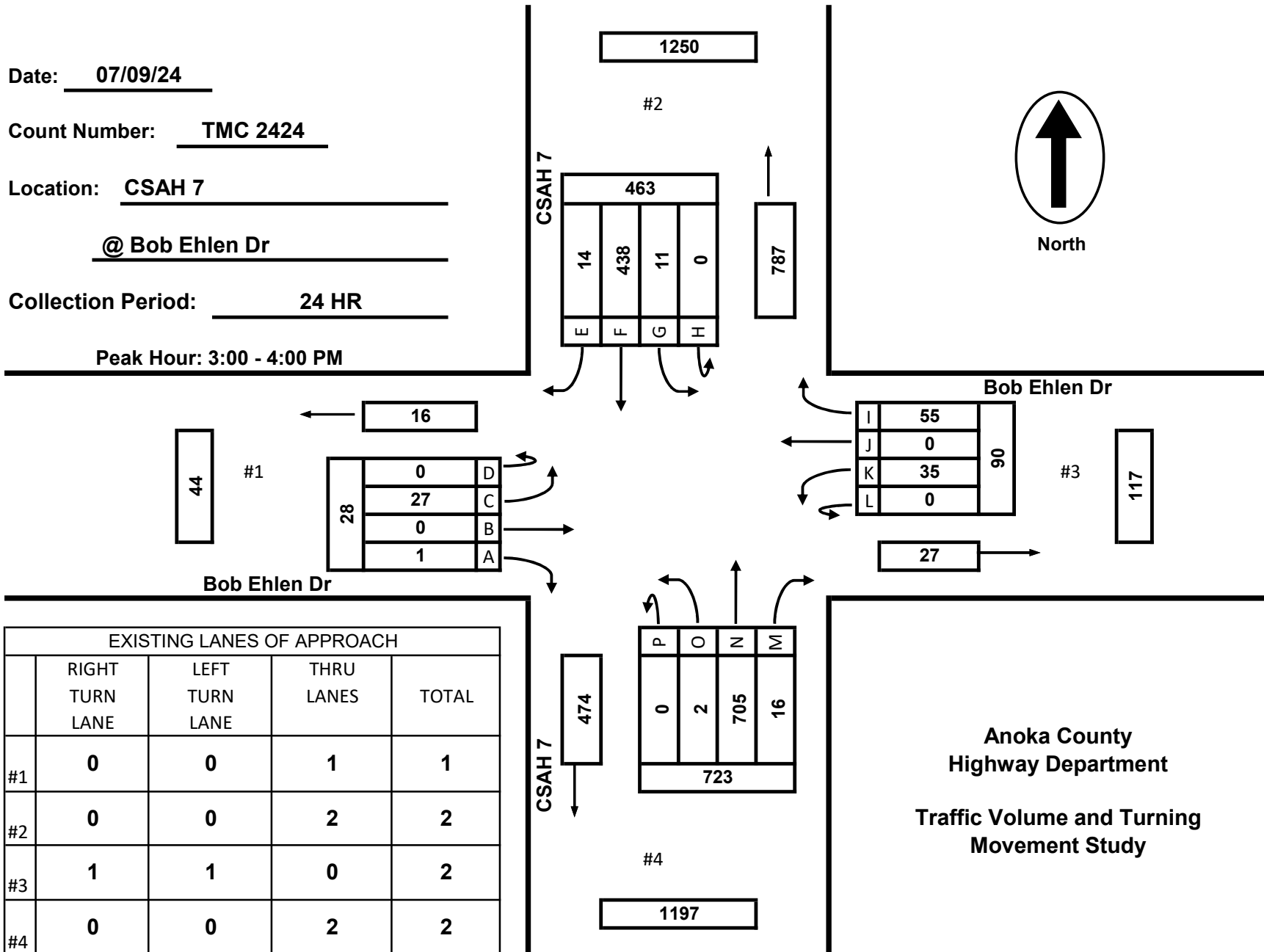
@ Bob Ehlen Dr

Collection Period: 24 HR

Peak Hour: 3:00 - 4:00 PM



North



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

Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

**TMC 2424 - CSAH 7 @ Bob Ehlen Dr
Anoka MN
Tuesday, July 9, 2024**

Time	Southbound CSAH 7						Westbound Bob Ehlen Dr						Northbound CSAH 7						Eastbound Bob Ehlen 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	13	0	0	13	0	0	0	2	0	2	0	0	9	1	0	10	0	0	0	0	0	0	25
12:15 AM	0	1	6	1	0	8	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	15
12:30 AM	0	0	10	0	0	10	0	0	0	1	0	1	0	0	7	0	0	7	0	0	0	0	1	0	18
12:45 AM	0	0	4	0	0	4	0	3	0	1	0	4	0	0	2	0	0	2	0	0	0	0	2	0	10
Hourly Total	0	1	33	1	0	35	0	3	0	4	0	7	0	0	25	1	0	26	0	0	0	0	3	0	68
1:00 AM	0	0	2	0	0	2	0	2	0	0	0	2	0	0	11	0	0	11	0	0	0	0	0	0	15
1:15 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	13
1:30 AM	0	0	5	0	0	5	0	0	0	1	0	1	0	0	2	0	0	2	0	0	0	0	0	0	8
1:45 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	9	1	0	10	0	0	0	0	0	0	16
Hourly Total	0	0	20	0	0	20	0	2	0	1	0	3	0	0	28	1	0	29	0	0	0	0	0	0	52
2:00 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	11
2:15 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	9
2:30 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	1	0	6
2:45 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	7
Hourly Total	0	0	18	0	0	18	0	0	0	0	0	0	0	0	14	1	0	15	0	0	0	0	1	0	33
3:00 AM	0	1	8	0	0	9	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	17
3:15 AM	0	1	3	0	0	4	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	2	0	11
3:30 AM	0	1	5	0	0	6	0	0	0	0	0	0	0	0	8	1	0	9	0	0	0	0	0	0	15
3:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	7	0	0	7	0	1	0	0	0	1	10
Hourly Total	0	3	18	0	0	21	0	0	0	0	0	0	0	0	30	1	0	31	0	1	0	0	2	1	53
4:00 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	1	0	11
4:15 AM	0	1	13	0	0	14	0	0	0	0	0	0	0	0	10	1	0	11	0	0	0	0	1	0	25
4:30 AM	0	3	14	0	0	17	0	0	0	0	0	0	0	0	14	1	0	15	0	0	0	0	0	0	32
4:45 AM	0	6	25	0	0	31	0	0	0	0	0	0	0	0	10	1	0	11	0	0	0	0	0	0	42
Hourly Total	0	10	58	0	0	68	0	0	0	0	0	0	0	0	39	3	0	42	0	0	0	0	2	0	110
5:00 AM	0	2	11	0	0	13	0	0	0	0	0	0	0	0	11	3	0	14	0	1	0	1	0	2	29
5:15 AM	0	3	34	0	0	37	0	0	0	0	0	0	0	0	23	6	0	29	0	2	0	0	0	2	68
5:30 AM	0	14	44	0	0	58	0	2	0	1	0	3	0	0	32	7	0	39	0	1	0	0	0	1	101
5:45 AM	0	9	58	1	0	68	0	2	0	1	0	3	0	0	37	8	0	45	0	1	0	0	0	1	117
Hourly Total	0	28	147	1	0	176	0	4	0	2	0	6	0	0	103	24	0	127	0	5	0	1	0	6	315
6:00 AM	0	9	57	0	0	66	0	6	0	4	0	10	0	0	55	3	0	58	0	1	0	0	0	1	135
6:15 AM	0	9	88	0	0	97	0	4	0	0	0	4	0	0	49	9	0	58	0	2	0	0	0	2	161
6:30 AM	0	16	123	0	1	139	0	2	0	0	0	2	0	0	58	9	0	67	0	3	0	0	0	3	211
6:45 AM	0	24	149	1	0	174	0	5	0	1	0	6	0	0	65	12	0	77	0	0	0	0	0	0	257
Hourly Total	0	58	417	1	1	476	0	17	0	5	0	22	0	0	227	33	0	260	0	6	0	0	0	6	764
7:00 AM	0	19	94	1	0	114	0	4	0	2	0	6	0	0	70	10	0	80	0	1	0	0	1	1	201
7:15 AM	0	13	125	1	0	139	0	5	1	6	0	12	0	0	75	11	0	86	0	2	0	0	1	2	239
7:30 AM	0	12	109	1	0	122	0	2	0	2	0	4	0	0	84	12	0	96	0	4	1	2	0	7	229
7:45 AM	0	15	147	3	1	165	0	2	0	3	0	5	0	0	81	23	0	104	0	3	0	0	0	3	277
Hourly Total	0	59	475	6	1	540	0	13	1	13	0	27	0	0	310	56	0	366	0	10	1	2	2	13	946

**TMC 2424 - CSAH 7 @ Bob Ehlen Dr
Anoka MN
Tuesday, July 9, 2024**

Time	Southbound CSAH 7						Westbound Bob Ehlen Dr						Northbound CSAH 7						Eastbound Bob Ehlen 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	13	110	3	0	126	0	2	0	1	0	3	0	0	61	9	0	70	0	4	0	1	1	5	204
8:15 AM	0	5	124	0	0	129	0	3	0	1	0	4	0	0	73	7	0	80	0	1	0	1	1	2	215
8:30 AM	0	6	92	2	0	100	0	3	0	1	0	4	0	0	92	8	0	100	0	2	0	1	0	3	207
8:45 AM	0	3	110	4	0	117	0	2	0	0	0	2	0	0	84	3	0	87	0	1	0	1	0	2	208
Hourly Total	0	27	436	9	0	472	0	10	0	3	0	13	0	0	310	27	0	337	0	8	0	4	2	12	834
9:00 AM	0	3	86	1	0	90	0	2	0	0	0	2	0	1	92	1	0	94	0	2	0	0	0	2	188
9:15 AM	0	4	97	2	0	103	0	4	0	3	2	7	0	0	68	3	0	71	0	1	0	0	0	1	182
9:30 AM	0	6	89	2	2	97	0	4	0	3	2	7	0	1	84	4	0	89	0	0	0	0	0	0	193
9:45 AM	0	3	106	0	1	109	0	1	0	1	1	2	0	0	89	3	0	92	0	2	0	0	0	2	205
Hourly Total	0	16	378	5	3	399	0	11	0	7	5	18	0	2	333	11	0	346	0	5	0	0	0	5	768
10:00 AM	0	1	84	1	0	86	0	3	0	5	0	8	0	0	88	5	0	93	0	4	0	0	0	4	191
10:15 AM	0	1	104	2	0	107	0	0	0	0	0	0	0	1	74	4	0	79	0	2	0	0	0	2	188
10:30 AM	0	3	79	2	1	84	0	5	0	2	0	7	0	0	106	5	1	111	0	1	0	0	1	1	203
10:45 AM	0	1	103	0	0	104	0	4	0	4	0	8	0	0	89	1	0	90	0	3	0	0	0	3	205
Hourly Total	0	6	370	5	1	381	0	12	0	11	0	23	0	1	357	15	1	373	0	10	0	0	1	10	787
11:00 AM	0	2	102	0	0	104	0	1	0	2	0	3	0	0	104	6	0	110	0	2	0	0	0	2	219
11:15 AM	0	7	101	2	1	110	0	5	2	0	2	7	0	0	109	3	0	112	0	4	0	0	1	4	233
11:30 AM	0	3	100	2	0	105	0	9	0	4	1	13	0	0	105	11	0	116	0	1	0	0	0	1	235
11:45 AM	0	2	120	4	0	126	0	3	0	4	1	7	0	0	107	6	0	113	0	2	0	1	0	3	249
Hourly Total	0	14	423	8	1	445	0	18	2	10	4	30	0	0	425	26	0	451	0	9	0	1	1	10	936
12:00 PM	0	5	101	2	0	108	0	11	0	7	1	18	0	2	102	6	0	110	0	5	0	0	0	5	241
12:15 PM	0	5	102	0	1	107	0	5	0	0	1	5	0	1	145	10	1	156	0	4	1	0	1	5	273
12:30 PM	0	5	84	2	0	91	0	3	0	2	0	5	0	0	107	4	0	111	0	3	0	0	1	3	210
12:45 PM	0	5	123	1	1	129	0	4	0	7	0	11	0	0	105	10	0	115	0	1	0	1	0	2	257
Hourly Total	0	20	410	5	2	435	0	23	0	16	2	39	0	3	459	30	1	492	0	13	1	1	2	15	981
1:00 PM	0	5	103	2	0	110	0	2	0	0	0	2	0	0	118	3	1	121	0	3	0	0	0	3	236
1:15 PM	0	1	94	0	1	95	0	5	0	4	2	9	0	1	111	6	0	118	0	1	0	0	2	1	223
1:30 PM	0	3	108	4	2	115	0	5	0	4	3	9	0	1	107	9	0	117	0	2	0	1	0	3	244
1:45 PM	0	1	101	1	0	103	0	5	0	2	0	7	0	1	140	3	0	144	0	2	0	0	0	2	256
Hourly Total	0	10	406	7	3	423	0	17	0	10	5	27	0	3	476	21	1	500	0	8	0	1	2	9	959
2:00 PM	0	2	93	4	0	99	0	9	0	9	0	18	0	1	141	1	0	143	0	6	0	0	1	6	266
2:15 PM	0	2	105	2	0	109	0	6	0	5	0	11	0	0	98	3	0	101	0	3	0	1	1	4	225
2:30 PM	0	2	122	0	2	124	0	14	0	2	0	16	0	1	127	14	0	142	0	5	0	0	1	5	287
2:45 PM	0	0	106	2	0	108	0	6	0	6	0	12	0	0	142	10	0	152	0	7	0	0	0	7	279
Hourly Total	0	6	426	8	2	440	0	35	0	22	0	57	0	2	508	28	0	538	0	21	0	1	3	22	1057
3:00 PM	0	3	113	2	0	118	0	10	0	25	0	35	0	0	198	6	0	204	0	7	0	0	0	7	364
3:15 PM	0	1	99	3	0	103	0	5	0	14	0	19	0	1	147	3	0	151	0	8	0	0	0	8	281
3:30 PM	0	4	111	4	0	119	0	9	0	5	0	14	0	1	189	2	0	192	0	6	0	0	1	6	331
3:45 PM	0	3	115	5	0	123	0	11	0	11	0	22	0	0	171	5	0	176	0	6	0	1	0	7	328
Hourly Total	0	11	438	14	0	463	0	35	0	55	0	90	0	2	705	16	0	723	0	27	0	1	1	28	1304

**TMC 2424 - CSAH 7 @ Bob Ehlen Dr
Anoka MN
Tuesday, July 9, 2024**

Time	Southbound CSAH 7						Westbound Bob Ehlen Dr						Northbound CSAH 7						Eastbound Bob Ehlen 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	0	2	106	1	0	109	0	10	0	13	1	23	0	0	185	6	1	191	0	5	0	1	0	6	329
4:15 PM	0	0	82	2	0	84	0	5	0	8	1	13	0	0	159	2	0	161	0	11	0	0	0	11	269
4:30 PM	0	4	101	2	0	107	0	11	0	15	0	26	0	0	183	1	0	184	0	29	0	0	1	29	346
4:45 PM	0	3	109	1	1	113	0	11	0	10	0	21	0	1	145	8	0	154	0	9	0	1	2	10	298
Hourly Total	0	9	398	6	1	413	0	37	0	46	2	83	0	1	672	17	1	690	0	54	0	2	3	56	1242
5:00 PM	0	5	84	2	0	91	0	15	1	6	0	22	0	0	176	7	1	183	0	5	0	0	1	5	301
5:15 PM	0	4	110	2	0	116	0	6	0	6	0	12	0	0	131	6	0	137	0	6	0	0	0	6	271
5:30 PM	0	3	85	3	0	91	0	8	0	6	2	14	0	0	134	8	0	142	0	5	0	1	2	6	253
5:45 PM	0	5	103	7	0	115	0	8	0	4	0	12	0	0	109	6	0	115	0	3	0	0	1	3	245
Hourly Total	0	17	382	14	0	413	0	37	1	22	2	60	0	0	550	27	1	577	0	19	0	1	4	20	1070
6:00 PM	0	7	68	0	0	75	0	16	0	13	0	29	0	0	120	8	0	128	0	1	0	0	0	1	233
6:15 PM	0	3	111	0	0	114	0	3	0	6	0	9	0	0	90	10	0	100	0	4	0	0	0	4	227
6:30 PM	0	4	99	1	0	104	0	5	0	4	0	9	0	1	84	5	0	90	0	0	0	0	0	0	203
6:45 PM	0	2	81	2	0	85	0	6	0	1	0	7	0	0	73	5	0	78	0	1	0	0	3	1	171
Hourly Total	0	16	359	3	0	378	0	30	0	24	0	54	0	1	367	28	0	396	0	6	0	0	3	6	834
7:00 PM	0	2	55	2	1	59	0	10	0	5	1	15	0	0	90	6	0	96	0	3	0	0	1	3	173
7:15 PM	0	1	58	2	0	61	0	2	0	6	3	8	0	0	73	5	0	78	0	3	0	0	0	3	150
7:30 PM	0	3	53	3	0	59	0	4	0	2	0	6	0	0	79	4	0	83	0	2	0	0	0	2	150
7:45 PM	0	4	71	2	0	77	0	1	0	3	1	4	0	0	55	1	0	56	0	1	0	0	1	1	138
Hourly Total	0	10	237	9	1	256	0	17	0	16	5	33	0	0	297	16	0	313	0	9	0	0	2	9	611
8:00 PM	0	1	66	1	0	68	0	1	0	4	0	5	0	1	75	2	0	78	0	0	0	0	0	0	151
8:15 PM	0	3	51	0	0	54	0	3	0	2	0	5	0	0	51	3	0	54	0	1	0	0	0	1	114
8:30 PM	0	1	36	0	0	37	0	1	0	2	0	3	0	0	37	3	0	40	0	0	0	0	1	0	80
8:45 PM	0	1	31	0	0	32	0	1	0	2	0	3	0	0	56	3	0	59	0	0	0	0	0	0	94
Hourly Total	0	6	184	1	0	191	0	6	0	10	0	16	0	1	219	11	0	231	0	1	0	0	1	1	439
9:00 PM	0	1	34	0	0	35	0	3	1	2	0	6	0	0	53	1	0	54	0	0	0	0	0	0	95
9:15 PM	0	2	47	2	2	51	0	3	0	1	0	4	0	0	49	2	0	51	0	1	0	0	0	1	107
9:30 PM	0	0	32	1	0	33	0	1	0	0	0	1	0	0	36	4	0	40	0	0	0	1	0	1	75
9:45 PM	0	1	29	1	0	31	0	6	0	1	0	7	0	0	31	6	0	37	0	1	0	0	0	1	76
Hourly Total	0	4	142	4	2	150	0	13	1	4	0	18	0	0	169	13	0	182	0	2	0	1	0	3	353
10:00 PM	0	0	25	1	0	26	0	1	0	0	0	1	0	0	55	2	0	57	0	0	0	0	0	0	84
10:15 PM	0	1	29	1	0	31	0	5	0	1	0	6	0	0	29	4	0	33	0	1	0	0	0	1	71
10:30 PM	0	0	18	1	0	19	0	0	0	3	0	3	0	0	29	4	0	33	0	0	0	0	0	0	55
10:45 PM	0	2	26	0	0	28	0	0	0	2	0	2	0	0	26	1	0	27	0	1	0	0	0	1	58
Hourly Total	0	3	98	3	0	104	0	6	0	6	0	12	0	0	139	11	0	150	0	2	0	0	0	2	268
11:00 PM	0	0	24	1	0	25	0	4	0	3	0	7	0	0	51	1	0	52	0	1	0	0	0	1	85
11:15 PM	0	2	12	0	0	14	0	3	0	1	0	4	0	0	23	1	0	24	0	0	0	0	0	0	42
11:30 PM	0	0	20	1	0	21	0	2	0	0	0	2	0	1	27	2	0	30	0	0	0	0	0	0	53
11:45 PM	0	0	10	1	0	11	0	1	0	2	0	3	0	0	17	1	0	18	0	0	0	0	0	0	32
Hourly Total	0	2	66	3	0	71	0	10	0	6	0	16	0	1	118	5	0	124	0	1	0	0	0	1	212
DAILY TOTAL	0	336	6339	113	18	6788	0	356	5	293	25	654	0	17	6880	422	5	7319	0	217	2	16	35	235	14996
Cars	0	333	6246	108	12	6687	0	348	5	290	10	643	0	16	6785	413	4	7214	0	215	1	11	19	227	14771
Heavy Vehicles	0	3	93	5	6	101	0	8	0	3	15	11	0	1	95	9	1	105	0	2	1	5	16	8	225
Heavy Vehicle %	0.00%	0.89%	1.47%	4.42%	33.33%	1.49%	0.00%	2.25%	0.00%	1.02%	60.00%	1.68%	0.00%	5.88%	1.38%	2.13%	20.00%	1.43%	0.00%	0.92%	50.00%	31.25%	45.71%	3.40%	1.50%

TMC 2424 - CSAH 7 @ Bob Ehlen Dr
Anoka MN
Tuesday, July 9, 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	13	125	1	0	139	0	5	1	6	0	12	0	0	75	11	0	86	0	2	0	0	1	2	239
7:30 AM	0	12	109	1	0	122	0	2	0	2	0	4	0	0	84	12	0	96	0	4	1	2	0	7	229
7:45 AM	0	15	147	3	1	165	0	2	0	3	0	5	0	0	81	23	0	104	0	3	0	0	0	3	277
8:00 AM	0	13	110	3	0	126	0	2	0	1	0	3	0	0	61	9	0	70	0	4	0	1	1	5	204
Peak Hour Total PHF	0.000	0.883	0.835	0.667	0.250	0.836	0.000	0.550	0.250	0.500	0.000	0.500	0.000	0.000	0.896	0.598	0.000	0.856	0.000	0.813	0.250	0.375	0.500	0.607	0.856

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	
3:00 PM	0	3	113	2	0	118	0	10	0	25	0	35	0	0	198	6	0	204	0	7	0	0	0	7	364
3:15 PM	0	1	99	3	0	103	0	5	0	14	0	19	0	1	147	3	0	151	0	8	0	0	0	8	281
3:30 PM	0	4	111	4	0	119	0	9	0	5	0	14	0	1	189	2	0	192	0	6	0	0	1	6	331
3:45 PM	0	3	115	5	0	123	0	11	0	11	0	22	0	0	171	5	0	176	0	6	0	1	0	7	328
Peak Hour Total PHF	0.000	0.688	0.952	0.700	0.000	0.941	0.000	0.795	0.000	0.550	0.000	0.643	0.000	0.500	0.890	0.667	0.000	0.886	0.000	0.844	0.000	0.250	0.250	0.875	0.896

Total Vehicles On Leg				14178		
Vehicles Entering Intersection			6788	Vehicles Exiting Intersection		7390
Southbound						
Cars	108	6246	333	0	12	
Heavy	5	93	3	0	6	
Total	113	6339	336	0	18	

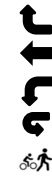


Total Vehicles on Leg 370	Eastbound	Vehicles Entering Intersection	235		
		Cars	19	16	35
		Heavy	0	0	0
		Total	215	2	217
		Vehicles Exiting Intersection	135		
		Cars	1	1	2
		Heavy	11	5	16



Daily Volumes

Cars	290	3	293	Westbound	Vehicles Entering Intersection	654	Total Vehicles on Leg 1414
Heavy	5	0	5				
Total	348	8	356				
Cars	0	0	0				
Heavy	10	15	25				
		Vehicles Exiting Intersection	760				



Cars	4	0	16	6785	413	
Heavy	1	0	1	95	9	
Total	5	0	17	6880	422	
Northbound						
Vehicles Entering Intersection			7319	Vehicles Exiting Intersection		6711
Total Vehicles On Leg			14030			



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/16/2024

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 7

Number of Lanes : 2+

Total Approach Volume: 7,319

Southbound: CSAH 7

Number of Lanes :2+

Total Approach Volume: 6,788

Minor Street Approaches

Eastbound: Bob Ehlen Dr

Number of Lanes :1

Total Approach Volume: 235

Westbound: Bob Ehlen Dr

Number of Lanes :1

Total Approach Volume: 361

Warrant Summary (Urban 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:

Study Date : 07/16/2024

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 = **False**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Volume Requirements

Veh/Hr Major = **600**

Veh/Hr Minor = **150**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:00 - 16:00	723	+	463	=	1186	28	35	No
15:15 - 16:15	710	+	454	=	1164	27	35	No
15:30 - 16:30	720	+	435	=	1155	30	35	No
14:45 - 15:45	699	+	448	=	1147	28	30	No
15:45 - 16:45	712	+	423	=	1135	53	37	No
16:00 - 17:00	690	+	413	=	1103	56	37	No
14:30 - 15:30	649	+	453	=	1102	27	35	No
16:30 - 17:30	658	+	427	=	1085	50	44	No
16:15 - 17:15	682	+	395	=	1077	55	43	No
14:15 - 15:15	599	+	459	=	1058	23	36	No
16:45 - 17:45	616	+	411	=	1027	27	41	No
17:00 - 18:00	577	+	413	=	990	20	38	No
14:00 - 15:00	538	+	440	=	978	22	35	No
13:45 - 14:45	530	+	435	=	965	17	34	No
11:30 - 12:30	495	+	446	=	941	14	28	No
12:15 - 13:15	503	+	437	=	940	13	14	No
13:15 - 14:15	522	+	412	=	934	12	24	No
13:30 - 14:30	505	+	426	=	931	15	25	No
12:00 - 13:00	492	+	435	=	927	15	23	No
13:00 - 14:00	500	+	423	=	923	9	17	No
11:45 - 12:45	490	+	432	=	922	16	22	No
12:45 - 13:45	471	+	449	=	920	9	16	No
17:15 - 18:15	522	+	397	=	919	16	38	No
07:15 - 08:15	356	+	552	=	908	17	12	No
07:00 - 08:00	366		540		906	13	14	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/16/2024

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 = **False**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Volume Requirements

Veh/Hr Major = **900**

Veh/Hr Minor = **75**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:00 - 16:00	723	+	463	=	1186	28	35	No
15:15 - 16:15	710	+	454	=	1164	27	35	No
15:30 - 16:30	720	+	435	=	1155	30	35	No
14:45 - 15:45	699	+	448	=	1147	28	30	No
15:45 - 16:45	712	+	423	=	1135	53	37	No
16:00 - 17:00	690	+	413	=	1103	56	37	No
14:30 - 15:30	649	+	453	=	1102	27	35	No
16:30 - 17:30	658	+	427	=	1085	50	44	No
16:15 - 17:15	682	+	395	=	1077	55	43	No
14:15 - 15:15	599	+	459	=	1058	23	36	No
16:45 - 17:45	616	+	411	=	1027	27	41	No
17:00 - 18:00	577	+	413	=	990	20	38	No
14:00 - 15:00	538	+	440	=	978	22	35	No
13:45 - 14:45	530	+	435	=	965	17	34	No
11:30 - 12:30	495	+	446	=	941	14	28	No
12:15 - 13:15	503	+	437	=	940	13	14	No
13:15 - 14:15	522	+	412	=	934	12	24	No
13:30 - 14:30	505	+	426	=	931	15	25	No
12:00 - 13:00	492	+	435	=	927	15	23	No
13:00 - 14:00	500	+	423	=	923	9	17	No
11:45 - 12:45	490	+	432	=	922	16	22	No
12:45 - 13:45	471	+	449	=	920	9	16	No
17:15 - 18:15	522	+	397	=	919	16	38	No
07:15 - 08:15	356	+	552	=	908	17	12	No
07:00 - 08:00	366		540		906	13	14	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/16/2024

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 = **False**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Warrant 1A 1B
Veh/Hr Major = **480 720**

Veh/Hr Minor = **120 60**

Major Road CSAH 7

Minor Road Bob Ehlen Dr

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
15:00 - 16:00	723	+	463	=	1186	28	35	No
15:15 - 16:15	710	+	454	=	1164	27	35	No
15:30 - 16:30	720	+	435	=	1155	30	35	No
14:45 - 15:45	699	+	448	=	1147	28	30	No
15:45 - 16:45	712	+	423	=	1135	53	37	No
16:00 - 17:00	690	+	413	=	1103	56	37	No
14:30 - 15:30	649	+	453	=	1102	27	35	No
16:30 - 17:30	658	+	427	=	1085	50	44	No
16:15 - 17:15	682	+	395	=	1077	55	43	No
14:15 - 15:15	599	+	459	=	1058	23	36	No
16:45 - 17:45	616	+	411	=	1027	27	41	No
17:00 - 18:00	577		413		990	20	38	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:00 - 16:00	723	+	463	=	1186	28	35	No
15:15 - 16:15	710	+	454	=	1164	27	35	No
15:30 - 16:30	720	+	435	=	1155	30	35	No
14:45 - 15:45	699	+	448	=	1147	28	30	No
15:45 - 16:45	712	+	423	=	1135	53	37	No
16:00 - 17:00	690	+	413	=	1103	56	37	No
14:30 - 15:30	649	+	453	=	1102	27	35	No
16:30 - 17:30	658	+	427	=	1085	50	44	No
16:15 - 17:15	682	+	395	=	1077	55	43	No
14:15 - 15:15	599	+	459	=	1058	23	36	No
16:45 - 17:45	616	+	411	=	1027	27	41	No
17:00 - 18:00	577		413		990	20	38	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/16/2024

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.

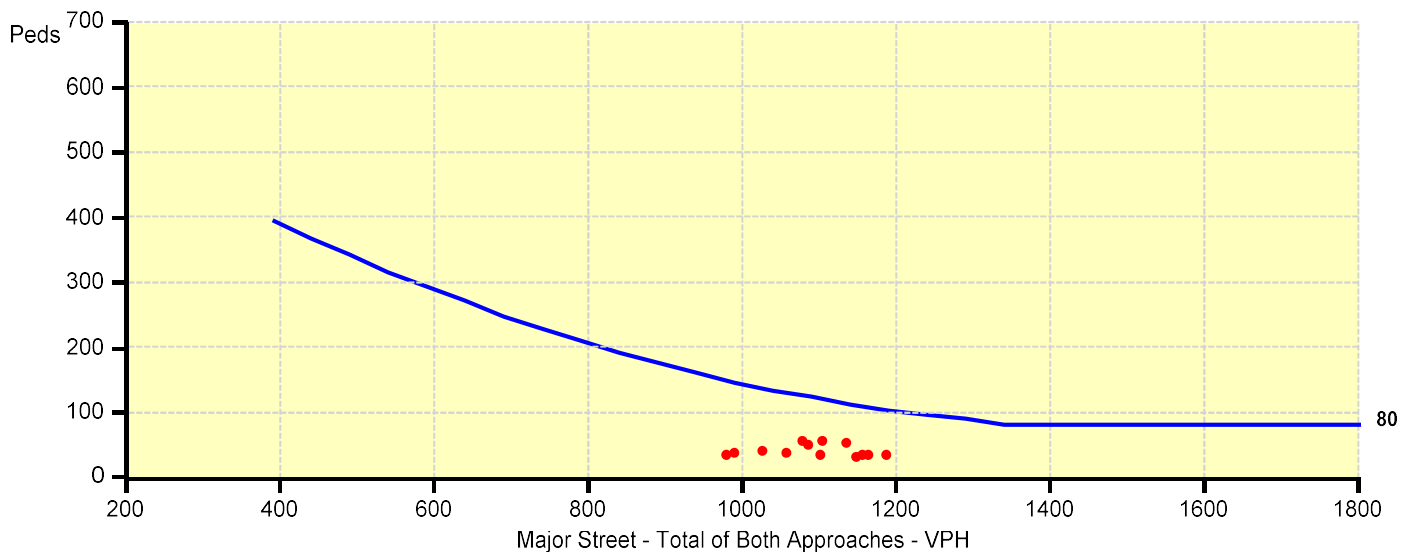
Summary

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

Site Data Required

Rural Settings Apply = **False**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 7				Total	Minor Road Bob Ehlen Dr		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:00 - 16:00	723	+	463	=	1186	28	35	No
15:15 - 16:15	710	+	454	=	1164	27	35	No
15:30 - 16:30	720	+	435	=	1155	30	35	No
14:45 - 15:45	699	+	448	=	1147	28	30	No
15:45 - 16:45	712	+	423	=	1135	53	37	No
16:00 - 17:00	690	+	413	=	1103	56	37	No
14:30 - 15:30	649	+	453	=	1102	27	35	No
16:30 - 17:30	658	+	427	=	1085	50	44	No
16:15 - 17:15	682	+	395	=	1077	55	43	No
14:15 - 15:15	599	+	459	=	1058	23	36	No
16:45 - 17:45	616	+	411	=	1027	27	41	No
17:00 - 18:00	577		413		990	20	38	No



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/16/2024

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 = **False**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 7				Total	Minor Road Bob Ehlen Dr		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:00 - 16:00	723	+	463	=	1186	28	35	No
15:15 - 16:15	710	+	454	=	1164	27	35	No
15:30 - 16:30	720	+	435	=	1155	30	35	No
14:45 - 15:45	699	+	448	=	1147	28	30	No
15:45 - 16:45	712	+	423	=	1135	53	37	No
16:00 - 17:00	690	+	413	=	1103	56	37	No
14:30 - 15:30	649	+	453	=	1102	27	35	No
16:30 - 17:30	658	+	427	=	1085	50	44	No
16:15 - 17:15	682	+	395	=	1077	55	43	No
14:15 - 15:15	599	+	459	=	1058	23	36	No
16:45 - 17:45	616	+	411	=	1027	27	41	No
17:00 - 18:00	577		413		990	20	38	No

