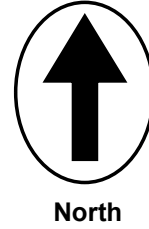


Date : 04/13/23

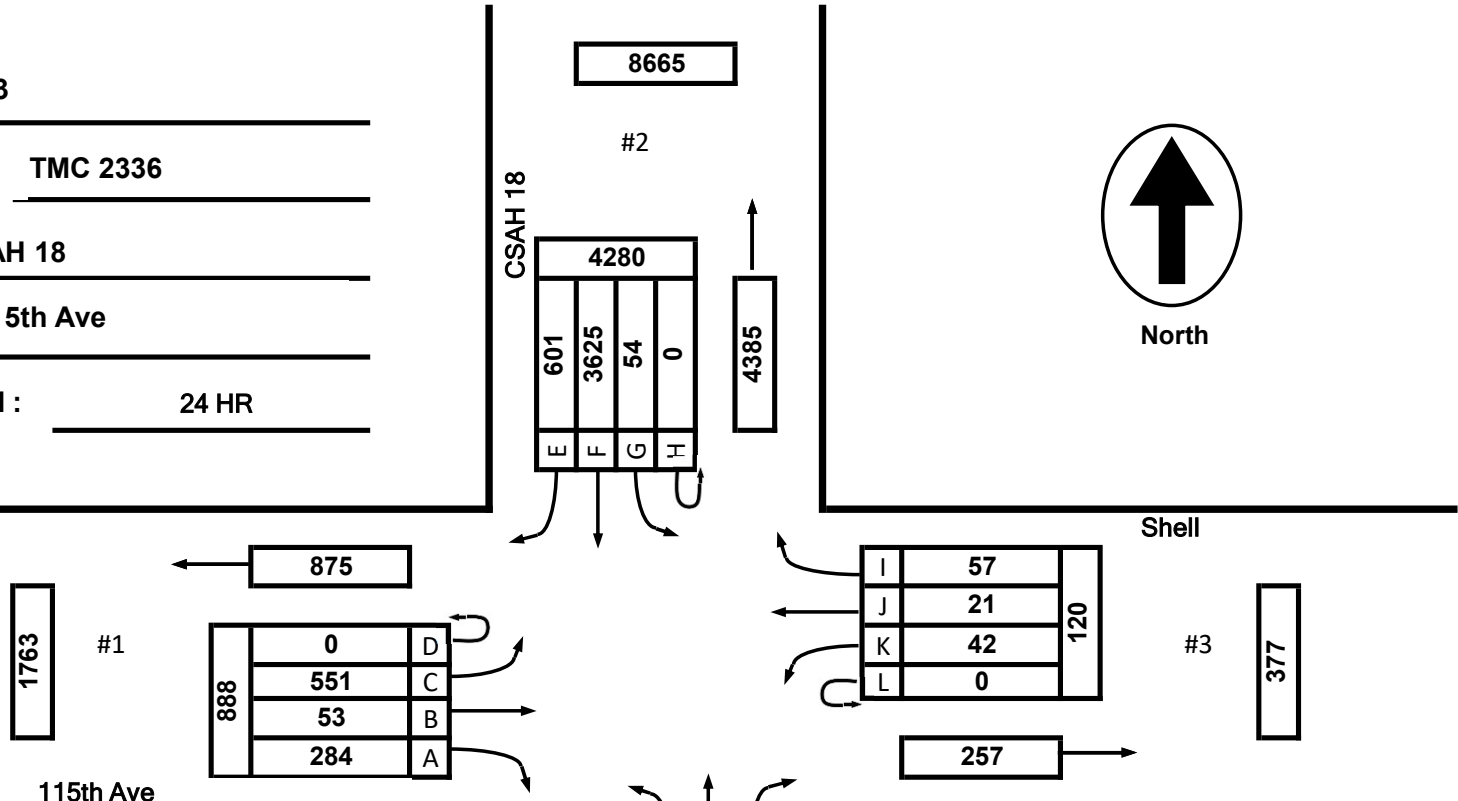
Count Number : TMC 2336

Location : CSAH 18  
@ 115th Ave

Collection Period : 24 HR



North



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

Anoka County Highway Department  
 Traffic Volume and Turning  
 Movement Study

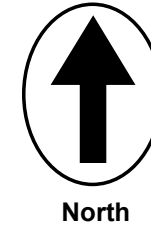
Date : 04/13/23

Count Number : TMC 2336

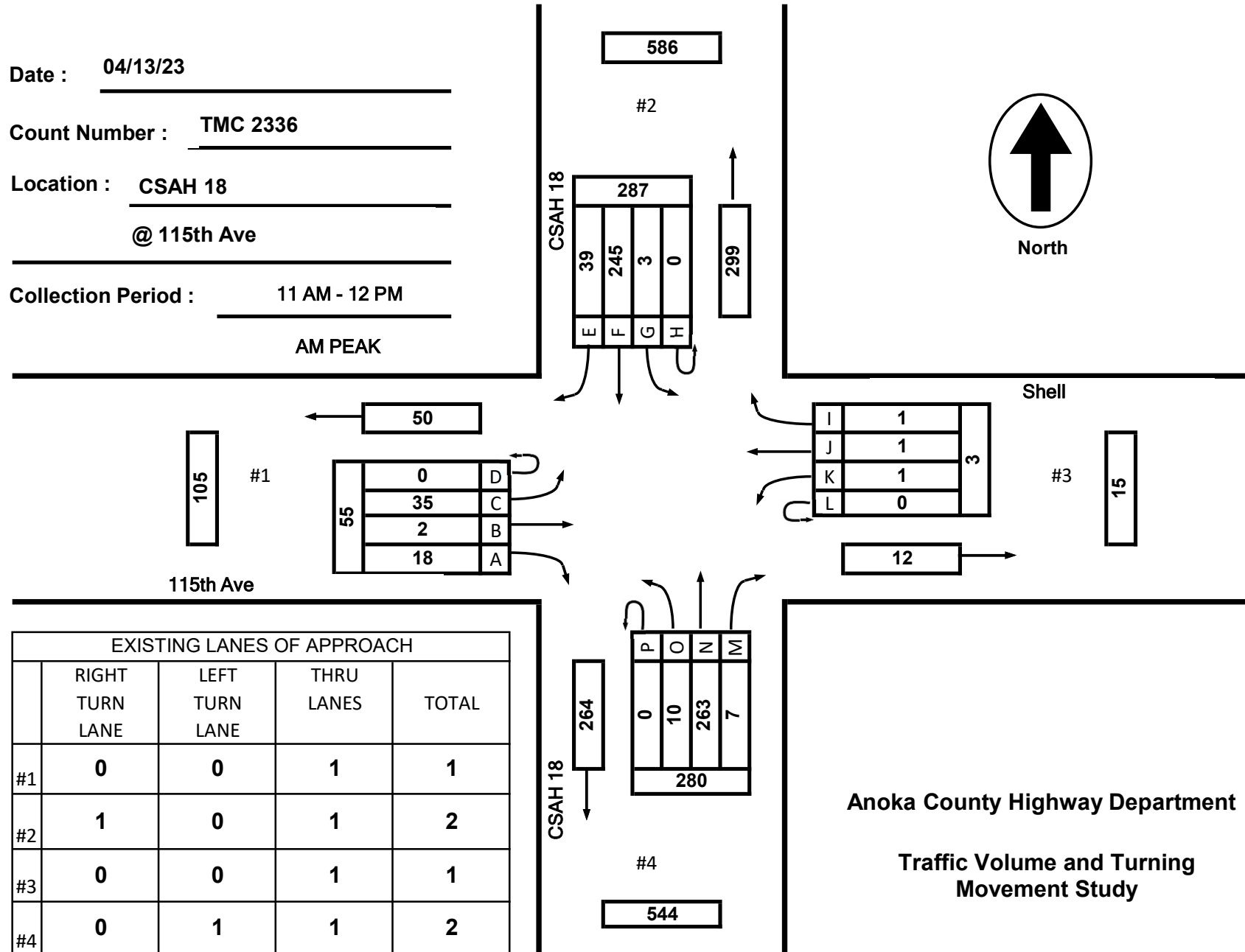
Location : CSAH 18  
@ 115th Ave

Collection Period : 11 AM - 12 PM

AM PEAK



North



105 #1  
115th Ave

55	0	D
	35	C
	2	B
	18	A

CSAH 18	287			
	39	245	3	0
	E	F	G	H
	586 #2			

Shell	I	1	3
	J	1	
	K	1	
	L	0	

CSAH 18	P	O	N	M
	0	10	263	7
	280			
	544 #4			

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

Anoka County Highway Department  
 Traffic Volume and Turning Movement Study

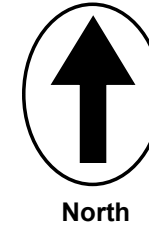
Date : 04/13/23

Count Number : TMC 2336

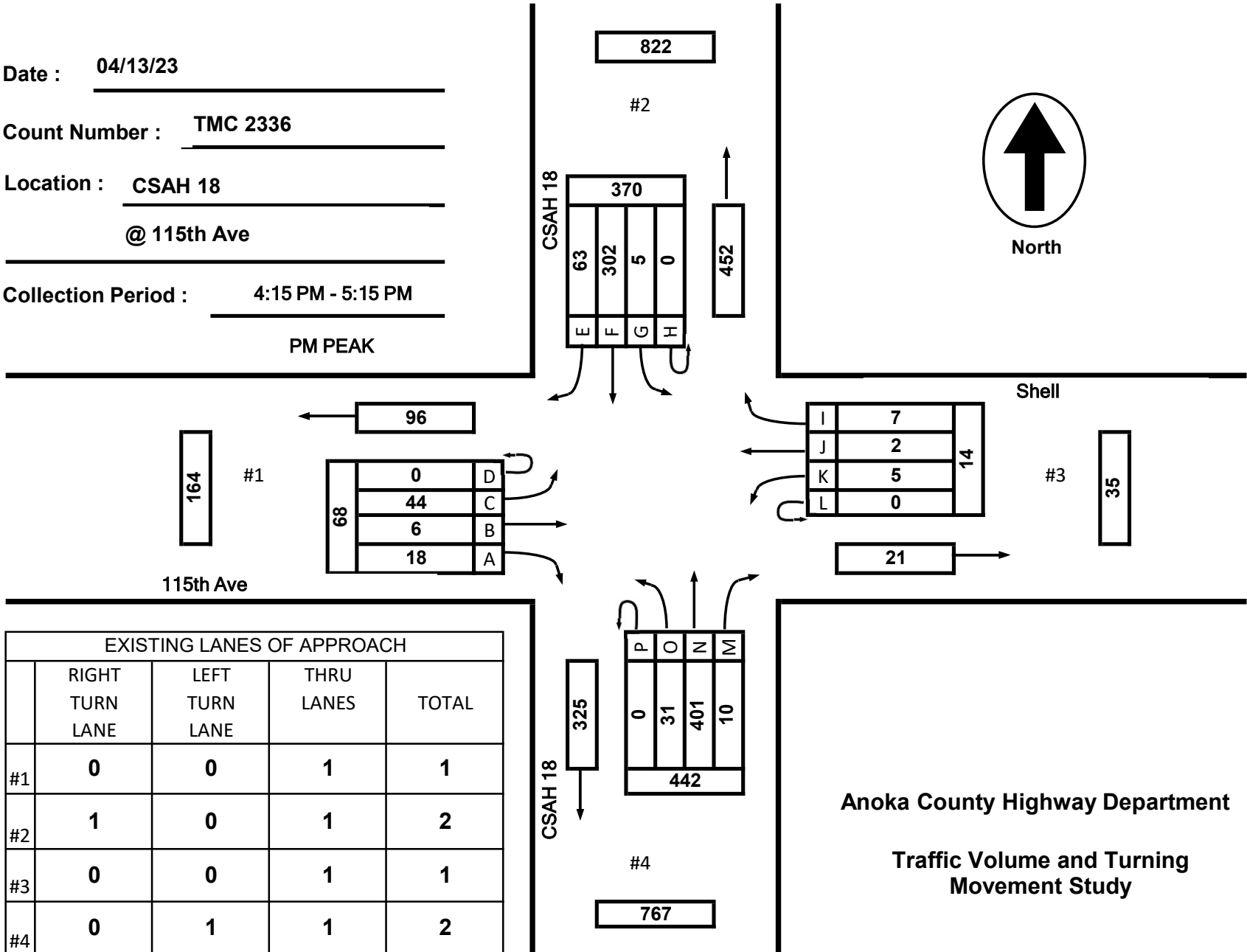
Location : CSAH 18  
@ 115th Ave

Collection Period : 4:15 PM - 5:15 PM

PM PEAK



North



EXISTING LANES OF APPROACH

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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

### TMC 2336 - CSAH 18 @ 115th Ave

0 0

**Thursday, April 13, 2023**

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
12:00 AM	0	0	3	2	0	5	0	0	0	0	0	0	0	2	2	0	0	4	0	2	0	0	0	2	
12:15 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	
12:30 AM	0	0	5	4	0	9	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	
12:45 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	
Hourly Total	0	0	15	6	0	21	0	0	0	0	0	0	0	3	10	0	0	13	0	2	0	0	0	2	36
1:00 AM	0	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	2	0	0	3	0	1	0	0	0	1	5
1:30 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	1	0	0	2	0	1	0	0	0	1	6
1:45 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	0	0	1	4
Hourly Total	0	1	6	2	0	9	0	0	0	0	0	0	0	2	5	0	0	7	0	3	0	0	0	3	19
2:00 AM	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
2:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	3
2:45 AM	0	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Hourly Total	0	0	6	1	0	7	0	0	0	0	0	0	0	2	1	0	0	3	0	0	0	1	0	1	11
3:00 AM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
3:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
3:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	4
Hourly Total	0	0	5	1	0	6	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	2	0	3	11
4:00 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	6
4:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	4	0	6	8
4:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	2	1	1	0	4	8
4:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	6	0	0	6	0	2	0	3	0	5	14
Hourly Total	0	0	9	0	0	9	0	0	0	0	0	0	0	0	10	0	0	10	0	6	1	10	0	17	36
5:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	5	0	0	5	0	2	0	1	0	3	11
5:15 AM	0	0	8	1	0	9	0	0	0	0	0	0	0	0	11	0	0	11	0	2	0	4	0	6	26
5:30 AM	0	0	9	0	0	9	0	0	0	1	0	1	0	1	12	0	0	13	0	4	0	4	0	8	31
5:45 AM	0	0	11	0	0	11	0	0	0	2	0	2	0	0	12	1	0	13	0	3	0	7	0	10	36
Hourly Total	0	0	31	1	0	32	0	0	0	3	0	3	0	1	40	1	0	42	0	11	0	16	0	27	104
6:00 AM	0	0	20	1	0	21	0	0	0	1	0	1	0	1	8	0	0	9	0	7	2	4	0	13	44
6:15 AM	0	0	20	2	0	22	0	0	0	0	0	0	0	1	19	1	0	21	0	3	0	5	0	8	51
6:30 AM	0	0	20	1	0	21	0	0	0	0	0	0	0	2	23	3	0	28	0	15	0	4	0	19	68
6:45 AM	0	0	36	2	0	38	0	0	0	2	0	2	0	2	23	0	0	25	0	7	1	9	0	17	82
Hourly Total	0	0	96	6	0	102	0	0	0	3	0	3	0	6	73	4	0	83	0	32	3	22	0	57	245
7:00 AM	0	0	31	4	0	35	0	1	0	0	0	1	0	2	40	2	1	44	0	21	4	8	1	33	113
7:15 AM	0	3	48	7	0	58	0	1	0	1	1	2	0	0	43	1	1	44	0	16	1	7	0	24	128
7:30 AM	0	0	56	10	0	66	0	2	1	1	0	4	0	1	39	2	0	42	0	15	1	13	0	29	141
7:45 AM	0	1	78	7	0	86	0	1	0	1	1	2	0	0	57	3	1	60	0	15	0	2	0	17	165
Hourly Total	0	4	213	28	0	245	0	5	1	3	2	9	0	3	179	8	3	190	0	67	6	30	1	103	547

TMC 2336 - CSAH 18 @ 115th Ave

0 0

Thursday, April 13, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						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	2	53	7	0	62	0	0	0	2	1	2	0	1	46	3	1	50	0	14	0	8	0	22	136
8:15 AM	0	1	43	7	0	51	0	0	0	2	0	2	0	6	35	2	1	43	0	13	0	4	1	17	113
8:30 AM	0	2	38	7	0	47	0	0	1	2	1	3	0	2	32	3	1	37	0	8	1	6	0	15	102
8:45 AM	0	0	40	4	0	44	0	2	0	0	0	2	0	0	39	2	0	41	0	9	1	2	0	12	99
Hourly Total	0	5	174	25	0	204	0	2	1	6	2	9	0	9	152	10	3	171	0	44	2	20	1	66	450
9:00 AM	0	3	52	3	0	58	0	1	0	0	0	1	0	2	43	2	0	47	0	7	1	6	1	14	120
9:15 AM	0	2	62	8	0	72	0	1	0	2	0	3	0	5	49	2	0	56	0	8	0	9	0	17	148
9:30 AM	0	0	46	11	0	57	0	2	0	1	0	3	0	5	49	1	0	55	0	12	1	3	0	16	131
9:45 AM	0	2	58	9	0	69	0	1	1	1	0	3	0	0	57	1	0	58	0	6	2	2	0	10	140
Hourly Total	0	7	218	31	0	256	0	5	1	4	0	10	0	12	198	6	0	216	0	33	4	20	1	57	539
10:00 AM	0	0	30	5	0	35	0	0	0	0	1	0	0	2	42	0	0	44	0	6	2	4	0	12	91
10:15 AM	0	0	47	14	0	61	0	0	0	0	0	0	0	5	49	2	0	56	0	6	0	7	0	13	130
10:30 AM	0	0	52	5	0	57	0	0	0	1	0	1	0	3	54	1	0	58	0	9	0	2	1	11	127
10:45 AM	0	0	59	9	0	68	0	1	0	0	1	1	0	0	66	3	1	69	0	6	1	5	0	12	150
Hourly Total	0	0	188	33	0	221	0	1	0	1	2	2	0	10	211	6	1	227	0	27	3	18	1	48	498
11:00 AM	0	0	48	12	0	60	0	0	1	1	0	2	0	2	55	0	1	57	0	14	2	3	0	19	138
11:15 AM	0	0	61	7	0	68	0	0	0	0	0	0	0	6	74	2	0	82	0	7	0	5	1	12	162
11:30 AM	0	0	70	9	0	79	0	0	0	0	0	0	0	1	61	1	0	63	0	9	0	4	1	13	155
11:45 AM	0	3	66	11	0	80	0	1	0	0	0	1	0	1	73	4	0	78	0	5	0	6	1	11	170
Hourly Total	0	3	245	39	0	287	0	1	1	1	0	3	0	10	263	7	1	280	0	35	2	18	3	55	625
12:00 PM	0	0	71	7	0	78	0	0	0	0	1	0	0	0	51	1	0	52	0	6	0	1	1	7	137
12:15 PM	0	1	67	5	0	73	0	2	0	0	2	2	0	1	75	3	2	79	0	4	0	0	1	4	158
12:30 PM	0	0	67	7	0	74	0	0	2	0	1	2	0	4	54	3	1	61	0	4	1	1	0	6	143
12:45 PM	0	0	59	11	0	70	0	1	2	1	1	4	1	5	80	3	1	89	0	6	0	0	0	6	169
Hourly Total	0	1	264	30	0	295	0	3	4	1	5	8	1	10	260	10	4	281	0	20	1	2	2	23	607
1:00 PM	0	2	57	3	0	62	0	1	0	0	0	1	0	1	62	5	1	68	0	8	1	5	0	14	145
1:15 PM	0	3	62	5	0	70	0	0	0	0	2	0	0	2	82	3	1	87	0	5	0	3	1	8	165
1:30 PM	0	2	61	11	0	74	0	0	0	1	0	1	0	3	61	3	0	67	0	7	0	5	1	12	154
1:45 PM	0	0	55	8	0	63	0	0	0	1	2	1	0	4	88	2	1	94	0	7	2	5	1	14	172
Hourly Total	0	7	235	27	0	269	0	1	0	2	4	3	0	10	293	13	3	316	0	27	3	18	3	48	636
2:00 PM	0	0	54	9	0	63	0	1	0	1	0	2	0	5	67	4	0	76	0	6	1	0	0	7	148
2:15 PM	0	0	74	9	0	83	0	1	0	3	0	4	0	5	76	2	1	83	0	7	0	3	0	10	180
2:30 PM	0	0	50	8	0	58	0	1	1	2	6	4	0	1	50	4	7	55	0	8	2	6	1	16	133
2:45 PM	0	0	69	11	0	80	0	0	0	0	0	0	0	5	64	3	0	72	0	5	0	1	1	6	158
Hourly Total	0	0	247	37	0	284	0	3	1	6	6	10	0	16	257	13	8	286	0	26	3	10	2	39	619
3:00 PM	0	1	71	10	0	82	0	0	1	2	0	3	0	7	70	4	0	81	0	8	4	6	0	18	184
3:15 PM	0	0	81	11	0	92	0	0	0	0	0	0	0	10	57	6	1	73	0	7	4	5	0	16	181
3:30 PM	0	1	60	14	0	75	0	3	0	1	5	4	0	12	84	1	6	97	0	9	0	4	0	13	189
3:45 PM	0	1	81	16	0	98	0	2	0	1	1	3	0	6	90	3	1	99	0	11	0	2	0	13	213
Hourly Total	0	3	293	51	0	347	0	5	1	4	6	10	0	35	301	14	8	350	0	35	8	17	0	60	767

**TMC 2336 - CSAH 18 @ 115th Ave**  
**0 0**  
**Thursday, April 13, 2023**

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	1	79	15	0	95	0	1	1	1	3	3	0	11	80	6	2	97	0	7	1	3	2	11	0	206
4:15 PM	0	1	75	16	0	92	0	3	0	2	0	5	0	10	93	6	0	109	0	7	1	4	1	12	0	218
4:30 PM	0	0	74	12	0	86	0	0	1	2	2	3	0	7	118	1	1	126	0	7	2	6	0	15	0	230
4:45 PM	0	0	67	17	0	84	0	1	1	3	2	5	0	9	101	3	3	113	0	11	2	5	6	18	0	220
Hourly Total	0	2	295	60	0	357	0	5	3	8	7	16	0	37	392	16	6	445	0	32	6	18	9	56	0	874
5:00 PM	0	4	86	18	1	108	0	1	0	0	2	1	0	5	89	0	7	94	0	19	1	3	3	23	0	226
5:15 PM	0	2	85	13	0	100	0	3	2	2	3	7	0	6	88	1	3	95	0	11	1	1	0	13	0	215
5:30 PM	0	0	72	22	0	94	0	0	0	0	2	0	0	3	74	3	1	80	0	6	1	5	0	12	0	186
5:45 PM	0	1	63	13	0	77	0	0	1	0	1	1	0	7	67	4	0	78	0	12	0	5	0	17	0	173
Hourly Total	0	7	306	66	1	379	0	4	3	2	8	9	0	21	318	8	11	347	0	48	3	14	3	65	0	800
6:00 PM	0	3	54	13	0	70	0	0	0	4	3	4	0	7	78	0	4	85	0	13	1	7	5	21	0	180
6:15 PM	0	0	48	14	0	62	0	1	0	0	0	1	0	3	68	2	1	73	0	10	1	6	1	17	0	153
6:30 PM	0	5	67	10	0	82	0	0	0	2	4	2	0	4	74	3	0	81	0	10	0	2	1	12	0	177
6:45 PM	0	1	57	6	0	64	0	1	0	1	1	2	0	4	66	2	3	72	0	6	0	6	0	12	0	150
Hourly Total	0	9	226	43	0	278	0	2	0	7	8	9	0	18	286	7	8	311	0	39	2	21	7	62	0	660
7:00 PM	0	0	44	11	0	55	0	1	0	2	2	3	0	4	49	4	6	57	0	5	2	2	0	9	0	124
7:15 PM	0	0	48	9	0	57	0	1	1	1	1	3	0	5	52	5	0	62	0	7	0	4	0	11	0	133
7:30 PM	0	0	59	10	2	69	0	0	0	0	0	0	0	3	66	2	4	71	0	5	0	4	3	9	0	149
7:45 PM	0	0	53	9	2	62	0	1	1	0	3	2	0	4	47	2	0	53	0	5	0	2	0	7	0	124
Hourly Total	0	0	204	39	4	243	0	3	2	3	6	8	0	16	214	13	10	243	0	22	2	12	3	36	0	530
8:00 PM	0	2	64	13	0	79	0	0	0	0	0	0	0	3	58	2	0	63	0	7	1	4	0	12	0	154
8:15 PM	0	0	46	7	0	53	0	0	0	0	2	0	0	2	38	2	0	42	0	2	1	0	0	3	0	98
8:30 PM	0	1	46	9	0	56	0	0	2	1	1	3	0	9	33	4	0	46	0	6	0	1	0	7	0	112
8:45 PM	0	0	34	7	0	41	0	1	1	0	0	2	0	3	29	2	0	34	0	4	1	1	0	6	0	83
Hourly Total	0	3	190	36	0	229	0	1	3	1	3	5	0	17	158	10	0	185	0	19	3	6	0	28	0	447
9:00 PM	0	2	28	6	0	36	0	0	0	0	1	0	0	1	29	0	1	30	0	4	0	0	0	4	0	70
9:15 PM	0	0	23	8	0	31	0	1	0	0	3	1	0	0	19	1	0	20	0	1	0	2	0	3	0	55
9:30 PM	0	0	15	2	0	17	0	0	0	2	0	2	0	2	12	0	0	14	0	3	0	1	0	4	0	37
9:45 PM	0	0	12	2	0	14	0	0	0	0	0	0	0	4	16	1	3	21	0	4	1	3	0	8	0	43
Hourly Total	0	2	78	18	0	98	0	1	0	2	4	3	0	7	76	2	4	85	0	12	1	6	0	19	0	205
10:00 PM	0	0	21	8	0	29	0	0	0	0	2	0	0	2	19	1	0	22	0	3	0	0	0	3	0	54
10:15 PM	0	0	16	3	0	19	0	0	0	0	0	0	0	0	7	0	0	7	0	2	0	0	0	2	0	28
10:30 PM	0	0	14	2	0	16	0	0	0	0	0	0	0	2	9	1	0	12	0	3	0	1	0	4	0	32
10:45 PM	0	0	8	1	0	9	0	0	0	0	0	0	0	1	13	0	0	14	0	1	0	0	0	1	0	24
Hourly Total	0	0	59	14	0	73	0	0	0	0	2	0	0	5	48	2	0	55	0	9	0	1	0	10	0	138
11:00 PM	0	0	10	2	0	12	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	1	0	1	0	21
11:15 PM	0	0	6	2	0	8	0	0	0	0	0	0	0	0	7	0	0	7	0	1	0	1	0	2	0	17
11:30 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	0	0	10
11:45 PM	0	0	2	3	0	5	0	0	0	0	0	0	0	2	10	0	0	12	0	0	0	0	0	0	0	17
Hourly Total	0	0	22	7	0	29	0	0	0	0	0	0	0	3	30	0	0	33	0	1	0	2	0	3	0	65
<b>DAILY TOTAL</b>	<b>0</b>	<b>54</b>	<b>3625</b>	<b>601</b>	<b>5</b>	<b>4280</b>	<b>0</b>	<b>42</b>	<b>21</b>	<b>57</b>	<b>65</b>	<b>120</b>	<b>1</b>	<b>253</b>	<b>3777</b>	<b>150</b>	<b>70</b>	<b>4181</b>	<b>0</b>	<b>551</b>	<b>53</b>	<b>284</b>	<b>36</b>	<b>888</b>	<b>0</b>	<b>9469</b>
Cars	0	54	3562	590	5	4206	0	41	21	56	40	118	1	246	3704	149	45	4100	0	536	53	272	10	861	0	9285
Heavy Vehicles	0	0	63	11	0	74	0	1	0	1	25	2	0	7	73	1	25	81	0	15	0	12	26	27	0	184
Heavy Vehicle %	0.00%	0.00%	1.74%	1.83%	0.00%	1.73%	0.00%	2.38%	0.00%	1.75%	38.46%	1.67%	0.00%	2.77%	1.93%	0.67%	35.71%	1.94%	0.00%	2.72%	0.00%	4.23%	72.22%	3.04%	0.00%	1.94%

## TMC 2336 - CSAH 18 @ 115th Ave

0 0

Thursday, April 13, 2023

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	
11:00 AM	0	0	48	12	0	60	0	0	1	1	0	2	0	2	55	0	1	57	0	14	2	3	0	19	
11:15 AM	0	0	61	7	0	68	0	0	0	0	0	0	0	6	74	2	0	82	0	7	0	5	1	12	
11:30 AM	0	0	70	9	0	79	0	0	0	0	0	0	0	1	61	1	0	63	0	9	0	4	1	13	
11:45 AM	0	3	66	11	0	80	0	1	0	0	0	1	0	1	73	4	0	78	0	5	0	6	1	11	
Peak Hour Total	0	3	245	39	0	287	0	1	1	1	0	3	0	10	263	7	1	280	0	35	2	18	3	55	
PHF	0.000	0.250	0.875	0.813	0.000	0.897	0.000	0.250	0.250	0.250	0.000	0.375	0.000	0.417	0.889	0.438	0.250	0.854	0.000	0.625	0.250	0.750	0.750	0.724	

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	1	75	16	0	92	0	3	0	2	0	5	0	10	93	6	0	109	0	7	1	4	1	12	
4:30 PM	0	0	74	12	0	86	0	0	1	2	2	3	0	7	118	1	1	126	0	7	2	6	0	15	
4:45 PM	0	0	67	17	0	84	0	1	1	3	2	5	0	9	101	3	3	113	0	11	2	5	6	18	
5:00 PM	0	4	86	18	1	108	0	1	0	0	2	1	0	5	89	0	7	94	0	19	1	3	3	23	
Peak Hour Total	0	5	302	63	1	370	0	5	2	7	6	14	0	31	401	10	11	442	0	44	6	18	10	68	
PHF	0.000	0.313	0.878	0.875	0.250	0.856	0.000	0.417	0.500	0.583	0.750	0.700	0.000	0.775	0.850	0.417	0.393	0.877	0.000	0.579	0.750	0.750	0.417	0.739	

Total Vehicles On Leg				8665			
Vehicles Entering Intersection		4280		Vehicles Exiting Intersection		4385	
<b>Southbound</b>							
Cars	590	3562	54	0	5		
Heavy	11	63	0	0	0		
<b>Total</b>	<b>601</b>	<b>3625</b>	<b>54</b>	<b>0</b>	<b>5</b>		



Total Vehicles on Leg 1763	Vehicles Entering Intersection	Eastbound	Cars	Heavy	Total	
	888		10	26	36	
			0	0	0	
	Vehicles Exiting Intersection		536	15	551	
	875		53	0	53	
	272	12	284			

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection	Total Vehicles on Leg 377
56	1	57		120	
21	0	21			
41	1	42		Vehicles Exiting Intersection	
0	0	0		257	
40	25	65			



Cars	45	1	246	3704	149
Heavy	25	0	7	73	1
<b>Total</b>	<b>70</b>	<b>1</b>	<b>253</b>	<b>3777</b>	<b>150</b>
<b>Northbound</b>					
Vehicles Entering Intersection			Vehicles Exiting Intersection		
4181			3952		
Total Vehicles On Leg			8133		

# Heavy Vehicles

Date	Time	Southbound						Westbound						Northbound						Eastbound					
		U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk
04/13/2023	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:45	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	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	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	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	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	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	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	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	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	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	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	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	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	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	6:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	6:45	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	7:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4	0	1	0	0
	7:15	0	0	3	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	1	0	0
	7:30	0	0	6	1	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	2	0	3	0	0
	7:45	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	1	0	0	0	0	0	0
	8:00	0	0	2	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	2	0	0	0	0
	8:15	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0
	8:30	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	8:45	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	9:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	9:15	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
	9:30	0	0	1	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	1	0	0	0	0
	9:45	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	10:00	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	10:15	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	10:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
	10:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	11:15	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	11:45	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0





# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2336

Study Date : 05/09/2023

## Signal Warrants - Summary

### Major Street Approaches

Northbound: CSAH 18

Number of Lanes : 1

Total Approach Volume: 4,181

Southbound: CSAH 18

Number of Lanes : 1

Total Approach Volume: 4,280

### Minor Street Approaches

Eastbound: 115th Ave

Number of Lanes : 1

Total Approach Volume: 888

Westbound: 115th Ave

Number of Lanes : 1

Total Approach Volume: 120

### 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 3 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 2336

Study Date : 05/09/2023

## 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 = **1**  
 Number of Minor Lanes = **1**

#### Volume Requirements

Veh/Hr Major = **500**

Veh/Hr Minor = **150**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:15 - 17:15	442	+	370	=	812	68	14	No
16:30 - 17:30	428	+	378	=	806	69	16	No
16:00 - 17:00	445	+	357	=	802	56	16	No
15:45 - 16:45	431	+	371	=	802	51	14	No
16:45 - 17:45	382	+	386	=	768	66	13	No
15:30 - 16:30	402	+	360	=	762	49	15	No
15:15 - 16:15	366	+	360	=	726	53	10	No
17:00 - 18:00	347	+	379	=	726	65	9	No
15:00 - 16:00	350	+	347	=	697	60	10	No
17:15 - 18:15	338	+	341	=	679	63	12	No
14:45 - 15:45	323	+	329	=	652	53	7	No
17:30 - 18:30	316	+	303	=	619	67	6	No
17:45 - 18:45	317	+	291	=	608	67	8	No
13:30 - 14:30	320	+	283	=	603	43	8	No
13:15 - 14:15	324	+	270	=	594	41	4	No
14:15 - 15:15	291	+	303	=	594	50	11	No
14:30 - 15:30	281	+	312	=	593	56	7	No
18:00 - 19:00	311	+	278	=	589	62	9	No
12:45 - 13:45	311	+	276	=	587	40	6	No
13:00 - 14:00	316	+	269	=	585	48	3	No
11:30 - 12:30	272	+	310	=	582	35	3	No
12:30 - 13:30	305	+	276	=	581	34	7	No
11:15 - 12:15	275	+	305	=	580	43	1	No
12:15 - 13:15	297	+	279	=	576	30	9	No
12:00 - 13:00	281		295		576	23	8	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2336

Study Date : 05/09/2023

## 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 = **1**  
 Number of Minor Lanes = **1**

#### Volume Requirements

Veh/Hr Major = **750**

Veh/Hr Minor = **75**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:15 - 17:15	442	+	370	=	812	68	14	No
16:30 - 17:30	428	+	378	=	806	69	16	No
16:00 - 17:00	445	+	357	=	802	56	16	No
15:45 - 16:45	431	+	371	=	802	51	14	No
16:45 - 17:45	382	+	386	=	768	66	13	No
15:30 - 16:30	402	+	360	=	762	49	15	No
15:15 - 16:15	366	+	360	=	726	53	10	No
17:00 - 18:00	347	+	379	=	726	65	9	No
15:00 - 16:00	350	+	347	=	697	60	10	No
17:15 - 18:15	338	+	341	=	679	63	12	No
14:45 - 15:45	323	+	329	=	652	53	7	No
17:30 - 18:30	316	+	303	=	619	67	6	No
17:45 - 18:45	317	+	291	=	608	67	8	No
13:30 - 14:30	320	+	283	=	603	43	8	No
13:15 - 14:15	324	+	270	=	594	41	4	No
14:15 - 15:15	291	+	303	=	594	50	11	No
14:30 - 15:30	281	+	312	=	593	56	7	No
18:00 - 19:00	311	+	278	=	589	62	9	No
12:45 - 13:45	311	+	276	=	587	40	6	No
13:00 - 14:00	316	+	269	=	585	48	3	No
11:30 - 12:30	272	+	310	=	582	35	3	No
12:30 - 13:30	305	+	276	=	581	34	7	No
11:15 - 12:15	275	+	305	=	580	43	1	No
12:15 - 13:15	297	+	279	=	576	30	9	No
12:00 - 13:00	281		295		576	23	8	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2336

Study Date : 05/09/2023

## 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 3 hours meet 1B minimums.  
Warrant is NOT met.

### Site Data Required

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

### Volume Requirements

Warrant 1A 1B  
Veh/Hr Major = **400 600**  
  
Veh/Hr Minor = **120 60**

#### Major Road CSAH 18

#### Minor Road 115th Ave

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:15 - 17:15	442	+	370	=	812	68	14	No
16:30 - 17:30	428	+	378	=	806	69	16	No
16:00 - 17:00	445	+	357	=	802	56	16	No
15:45 - 16:45	431	+	371	=	802	51	14	No
16:45 - 17:45	382	+	386	=	768	66	13	No
15:30 - 16:30	402	+	360	=	762	49	15	No
17:00 - 18:00	347	+	379	=	726	65	9	No
15:15 - 16:15	366	+	360	=	726	53	10	No
15:00 - 16:00	350	+	347	=	697	60	10	No
17:15 - 18:15	338	+	341	=	679	63	12	No
14:45 - 15:45	323	+	329	=	652	53	7	No
17:30 - 18:30	316	+	303	=	619	67	6	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:15 - 17:15	442	+	370	=	812	68	14	Yes
15:00 - 16:00	350	+	347	=	697	60	10	Yes
17:15 - 18:15	338	+	341	=	679	63	12	Yes
16:00 - 17:00	445	+	357	=	802	56	16	No
14:45 - 15:45	323	+	329	=	652	53	7	No
13:30 - 14:30	320	+	283	=	603	43	8	No
14:15 - 15:15	291	+	303	=	594	50	11	No
13:15 - 14:15	324	+	270	=	594	41	4	No
14:30 - 15:30	281	+	312	=	593	56	7	No
12:45 - 13:45	311	+	276	=	587	40	6	No
13:00 - 14:00	316	+	269	=	585	48	3	No
11:30 - 12:30	272	+	310	=	582	35	3	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2336

Study Date : 05/09/2023

## 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.

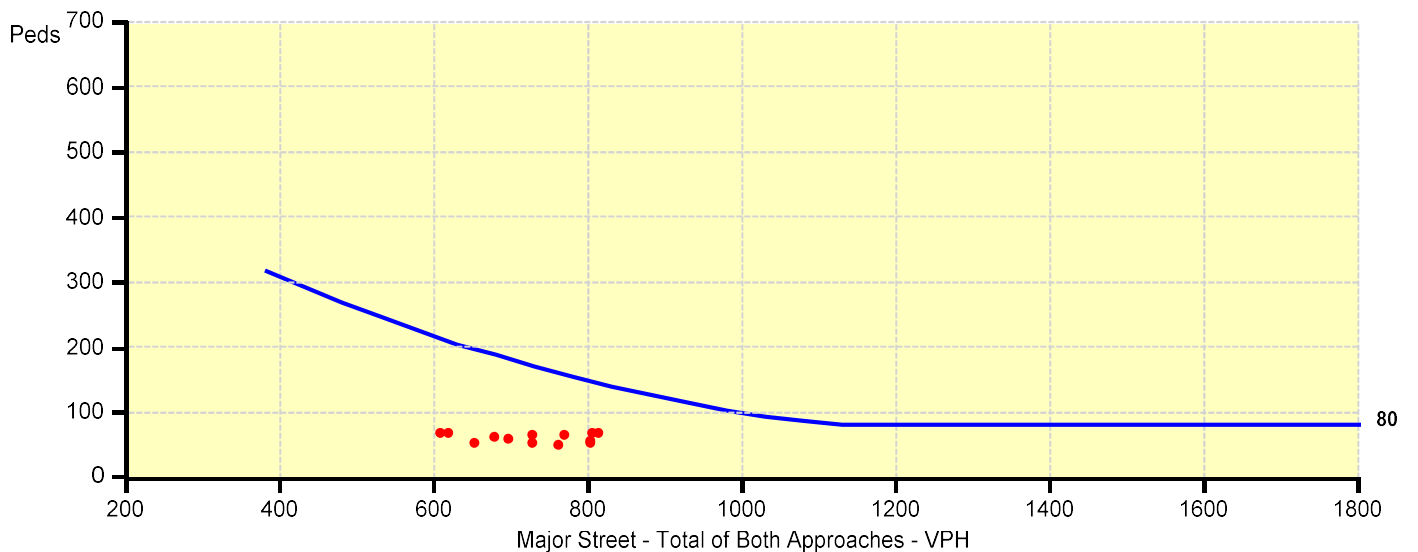
#### Summary

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

#### Site Data Required

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

Time	Major Road CSAH 18				Total	Minor Road 115th Ave		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:15 - 17:15	442	+	370	=	812	68	14	No
16:30 - 17:30	428	+	378	=	806	69	16	No
16:00 - 17:00	445	+	357	=	802	56	16	No
15:45 - 16:45	431	+	371	=	802	51	14	No
16:45 - 17:45	382	+	386	=	768	66	13	No
15:30 - 16:30	402	+	360	=	762	49	15	No
15:15 - 16:15	366	+	360	=	726	53	10	No
17:00 - 18:00	347	+	379	=	726	65	9	No
15:00 - 16:00	350	+	347	=	697	60	10	No
17:15 - 18:15	338	+	341	=	679	63	12	No
14:45 - 15:45	323	+	329	=	652	53	7	No
17:30 - 18:30	316		303		619	67	6	No



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2336

Study Date : 05/09/2023

## 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 = **1**  
 Number of Minor Lanes = **1**

Time	Major Road CSAH 18				Total	Minor Road 115th Ave		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:15 - 17:15	442	+	370	=	812	68	14	No
16:30 - 17:30	428	+	378	=	806	69	16	No
16:00 - 17:00	445	+	357	=	802	56	16	No
15:45 - 16:45	431	+	371	=	802	51	14	No
16:45 - 17:45	382	+	386	=	768	66	13	No
15:30 - 16:30	402	+	360	=	762	49	15	No
15:15 - 16:15	366	+	360	=	726	53	10	No
17:00 - 18:00	347	+	379	=	726	65	9	No
15:00 - 16:00	350	+	347	=	697	60	10	No
17:15 - 18:15	338	+	341	=	679	63	12	No
14:45 - 15:45	323	+	329	=	652	53	7	No
17:30 - 18:30	316	+	303	=	619	67	6	No

