

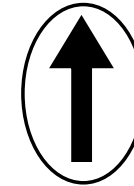
Date: 07/10/24

Count Number: TMC 2467

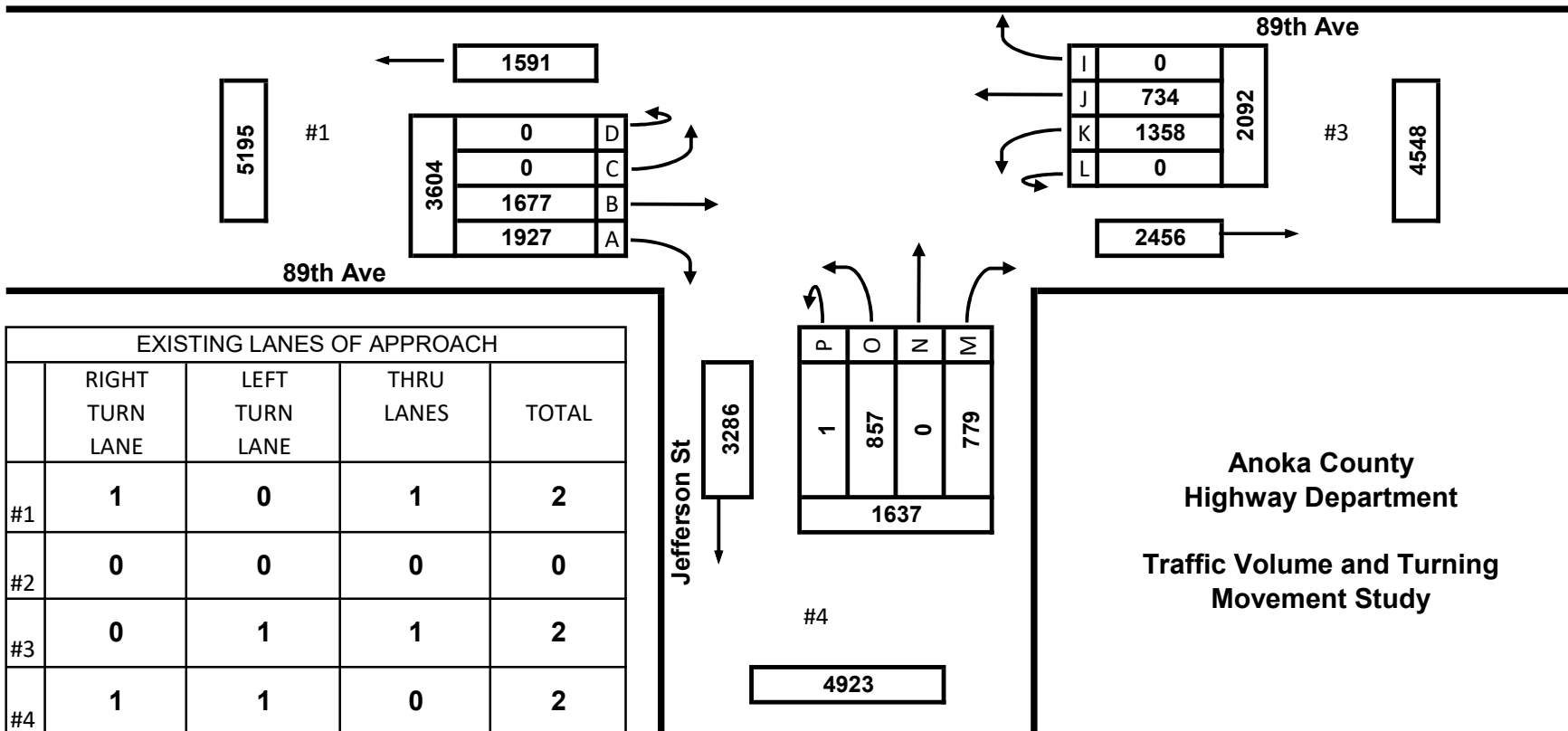
Location: 89th Ave

@ 87th Ln

Collection Period: 24 HR



North



Date: 07/10/24

Count Number: TMC 2467

Location: 89th Ave

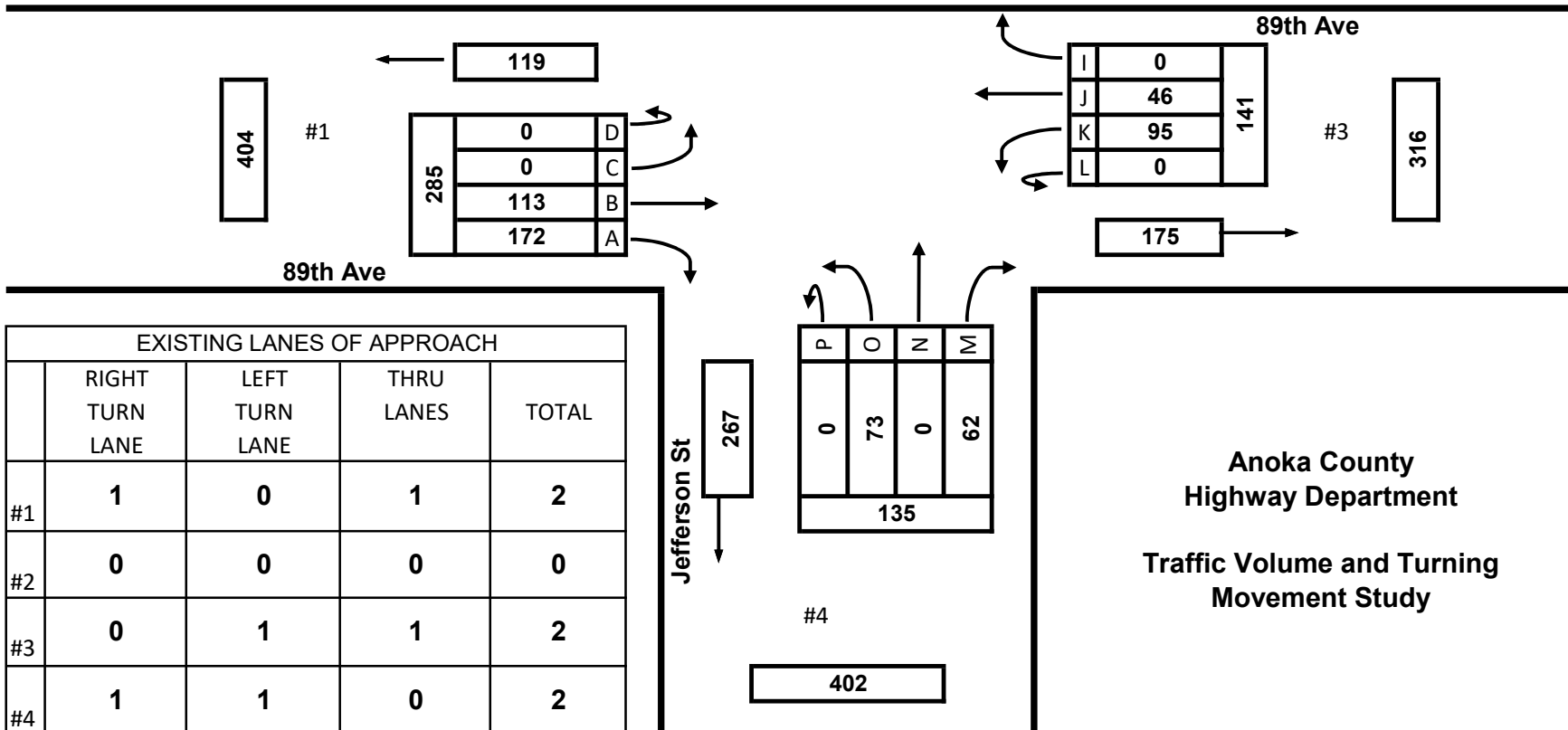
@ 87th Ln

Collection Period: 24 HR

Peak Hour: 11:00 - 12:00 PM



North



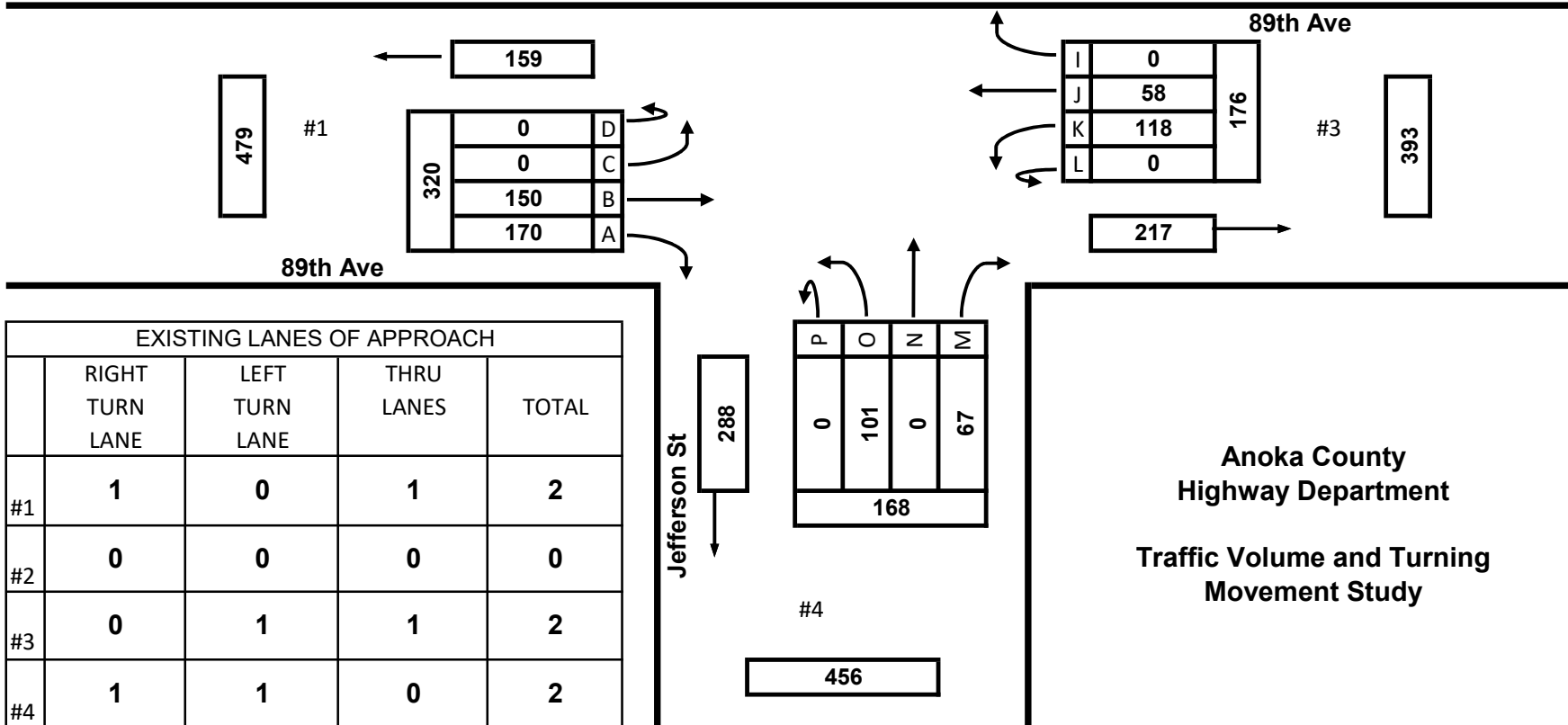
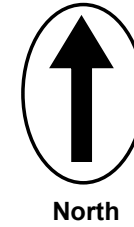
Date: 07/10/24

Count Number: TMC 2467

Location: 89th Ave
@ 87th Ln

Collection Period: 24 HR

Peak Hour: 4:00 - 5:00 PM



**TMC 2467 - 89th Ave @ Jefferson St
Blaine MN
Wednesday, July 10, 2024**

Time	Southbound 0						Westbound 89th Ave						Northbound 87th Ln						Eastbound 89th Ave						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
12:00 AM	0	0	0	0	0	0	0	2	0	0	0	2	0	2	0	1	0	3	0	0	0	2	0	2	7
12:15 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	3	7	0	10	11
12:30 AM	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	1	0	0	0	2	0	0	2	5
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	2	1	0	3	5
Hourly Total	0	0	0	0	0	0	0	4	2	0	0	6	0	4	0	1	1	5	0	0	7	10	0	17	28
1:00 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	2
1:15 AM	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	4
1:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	2	0	0	2	4
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	4
Hourly Total	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	3	0	3	0	0	8	0	0	8	14
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	1	2
2:15 AM	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	2	0	2	0	0	1	0	0	1	5
2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	2	0	3	4
2:45 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2
Hourly Total	0	0	0	0	0	0	0	2	1	0	0	3	0	1	0	3	0	4	0	0	4	2	0	6	13
3:00 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	1	0	0	1	3
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	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
3:45 AM	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	0	0	0	0	0	0	0	5	0	0	0	5	0	1	0	0	0	1	0	0	1	0	0	1	7
4:00 AM	0	0	0	0	0	0	0	2	1	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	5
4:15 AM	0	0	0	0	0	0	0	3	2	0	0	5	0	0	0	0	0	0	0	0	2	0	0	2	7
4:30 AM	0	0	0	0	0	0	0	3	1	0	0	4	0	0	0	0	0	0	0	0	2	1	0	3	7
4:45 AM	0	0	0	0	0	0	0	6	1	0	0	7	0	0	0	0	0	0	0	0	2	0	0	2	9
Hourly Total	0	0	0	0	0	0	0	14	5	0	0	19	0	0	0	0	0	0	0	0	8	1	0	9	28
5:00 AM	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	0	0	2	5	0	7	10
5:15 AM	0	0	0	0	0	0	0	5	4	0	0	9	0	1	0	0	0	1	0	0	2	1	0	3	13
5:30 AM	0	0	0	0	0	0	0	9	2	0	0	11	0	0	0	0	0	0	0	0	2	3	0	5	16
5:45 AM	0	0	0	0	0	0	0	12	0	0	0	12	0	1	0	1	0	2	0	0	4	3	0	7	21
Hourly Total	0	0	0	0	0	0	0	27	8	0	0	35	0	2	0	1	0	3	0	0	10	12	0	22	60
6:00 AM	0	0	0	0	0	0	0	11	4	0	0	15	0	0	0	1	0	1	0	0	3	4	0	7	23
6:15 AM	0	0	0	0	0	0	0	7	6	0	0	13	0	0	0	2	0	2	0	0	8	6	0	14	29
6:30 AM	0	0	0	0	0	0	0	9	4	0	0	13	0	1	0	3	0	4	0	0	11	12	0	23	40
6:45 AM	0	0	0	0	0	0	0	14	12	0	0	26	0	1	0	1	0	2	0	0	16	7	0	23	51
Hourly Total	0	0	0	0	0	0	0	41	26	0	0	67	0	2	0	7	0	9	0	0	38	29	0	67	143
7:00 AM	0	0	0	0	0	0	0	14	6	0	0	20	0	4	0	1	0	5	0	0	12	16	0	28	53
7:15 AM	0	0	0	0	0	0	0	12	6	0	0	18	0	2	0	0	0	2	0	0	19	10	3	29	49
7:30 AM	0	0	0	0	0	0	0	16	8	0	0	24	0	2	0	0	0	2	0	0	18	12	1	30	56
7:45 AM	0	0	0	0	0	0	0	18	11	0	0	29	0	4	0	2	0	6	0	0	44	9	0	53	88
Hourly Total	0	0	0	0	0	0	0	60	31	0	0	91	0	12	0	3	0	15	0	0	93	47	4	140	246

**TMC 2467 - 89th Ave @ Jefferson St
Blaine MN
Wednesday, July 10, 2024**

Time	Southbound 0						Westbound 89th Ave						Northbound 87th Ln						Eastbound 89th Ave						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	0	0	0	0	0	0	13	10	0	0	23	0	5	0	3	0	8	0	0	35	26	0	61	92
8:15 AM	0	0	0	0	0	0	0	16	6	0	0	22	0	2	0	5	0	7	0	0	21	18	0	39	68
8:30 AM	0	0	0	0	0	0	0	17	10	0	0	27	0	2	0	7	0	9	0	0	20	17	0	37	73
8:45 AM	0	0	0	0	0	0	0	16	14	0	0	30	0	3	0	2	0	5	0	0	27	16	0	43	78
Hourly Total	0	0	0	0	0	0	0	62	40	0	0	102	0	12	0	17	0	29	0	0	103	77	0	180	311
9:00 AM	0	0	0	0	0	0	0	11	10	0	0	21	0	5	0	4	0	9	0	0	28	21	0	49	79
9:15 AM	0	0	0	0	0	0	0	22	11	0	0	33	0	10	0	7	0	17	0	0	20	28	0	48	98
9:30 AM	0	0	0	0	0	0	0	22	11	0	0	33	0	8	0	7	0	15	0	0	12	26	1	38	86
9:45 AM	0	0	0	0	0	0	0	26	15	0	0	41	0	8	0	7	0	15	0	0	21	29	0	50	106
Hourly Total	0	0	0	0	0	0	0	81	47	0	0	128	0	31	0	25	0	56	0	0	81	104	1	185	369
10:00 AM	0	0	0	0	0	0	0	23	10	0	0	33	0	14	0	10	0	24	0	0	18	31	0	49	106
10:15 AM	0	0	0	0	0	0	0	17	13	0	0	30	0	8	0	10	0	18	0	0	16	25	1	41	89
10:30 AM	0	0	0	0	0	0	0	27	9	0	0	36	0	7	0	12	0	19	0	0	22	42	0	64	119
10:45 AM	0	0	0	0	0	0	0	17	7	0	0	24	0	2	0	9	0	11	0	0	27	27	0	54	89
Hourly Total	0	0	0	0	0	0	0	84	39	0	0	123	0	31	0	41	0	72	0	0	83	125	1	208	403
11:00 AM	0	0	0	0	0	0	0	19	7	0	0	26	0	19	0	14	0	33	0	0	24	36	0	60	119
11:15 AM	0	0	0	0	0	0	0	27	13	0	0	40	0	15	0	20	0	35	0	0	26	41	1	67	142
11:30 AM	0	0	0	0	0	0	0	22	8	0	0	30	0	22	0	15	0	37	0	0	28	49	0	77	144
11:45 AM	0	0	0	0	0	0	0	27	18	0	1	45	0	17	0	13	0	30	0	0	35	46	0	81	156
Hourly Total	0	0	0	0	0	0	0	95	46	0	1	141	0	73	0	62	0	135	0	0	113	172	1	285	561
12:00 PM	0	0	0	0	0	0	0	25	17	0	0	42	0	25	0	16	1	41	0	0	28	54	0	82	165
12:15 PM	0	0	0	0	0	0	0	24	8	0	0	32	0	16	0	20	0	36	0	0	26	44	2	70	138
12:30 PM	0	0	0	0	0	0	0	24	16	0	1	40	0	24	0	13	0	37	0	0	22	33	0	55	132
12:45 PM	0	0	0	0	0	0	0	28	17	0	0	45	0	13	0	14	0	27	0	0	25	41	0	66	138
Hourly Total	0	0	0	0	0	0	0	101	58	0	1	159	0	78	0	63	1	141	0	0	101	172	2	273	573
1:00 PM	0	0	0	0	0	0	0	30	26	0	0	56	0	23	0	17	0	40	0	0	30	47	0	77	173
1:15 PM	0	0	0	0	0	0	0	27	12	0	0	39	0	11	0	18	0	29	0	0	27	35	3	62	130
1:30 PM	0	0	0	0	0	0	0	30	16	0	0	46	0	15	0	13	0	28	0	0	31	30	0	61	135
1:45 PM	0	0	0	0	0	0	0	33	15	0	3	48	0	21	0	15	0	36	0	0	36	32	3	68	152
Hourly Total	0	0	0	0	0	0	0	120	69	0	3	189	0	70	0	63	0	133	0	0	124	144	6	268	590
2:00 PM	0	0	0	0	0	0	0	20	15	0	0	35	0	17	0	19	0	36	0	0	30	57	0	87	158
2:15 PM	0	0	0	0	0	0	0	19	9	0	0	28	0	18	0	19	0	37	0	0	35	35	0	70	135
2:30 PM	0	0	0	0	0	0	0	22	8	0	0	30	0	16	0	16	0	32	0	0	27	39	3	66	128
2:45 PM	0	0	0	0	0	0	0	34	10	0	0	44	0	15	0	12	0	27	0	0	27	40	0	67	138
Hourly Total	0	0	0	0	0	0	0	95	42	0	0	137	0	66	0	66	0	132	0	0	119	171	3	290	559
3:00 PM	0	0	0	0	0	0	0	24	10	0	0	34	0	26	0	17	0	43	0	0	27	38	0	65	142
3:15 PM	0	0	0	0	0	0	0	24	17	0	1	41	0	24	0	19	3	43	0	0	31	37	5	68	152
3:30 PM	0	0	0	0	0	0	0	26	21	0	1	47	0	20	0	16	0	36	0	0	36	41	3	77	160
3:45 PM	0	0	0	0	0	0	0	17	20	0	0	37	0	22	0	12	0	34	0	0	28	40	0	68	139
Hourly Total	0	0	0	0	0	0	0	91	68	0	2	159	0	92	0	64	3	156	0	0	122	156	8	278	593

**TMC 2467 - 89th Ave @ Jefferson St
Blaine MN
Wednesday, July 10, 2024**

Time	Southbound 0						Westbound 89th Ave						Northbound 87th Ln						Eastbound 89th Ave						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	0	0	0	0	0	0	33	14	0	0	47	0	26	0	24	0	50	0	0	35	43	3	78	175
4:15 PM	0	0	0	0	0	0	0	25	19	0	0	44	0	21	0	13	0	34	0	0	48	47	0	95	173
4:30 PM	0	0	0	0	0	0	0	36	15	0	3	51	0	29	0	14	0	43	0	0	31	39	3	70	164
4:45 PM	0	0	0	0	0	0	0	24	10	0	4	34	0	25	0	16	0	41	0	0	36	41	0	77	152
Hourly Total	0	0	0	0	0	0	0	118	58	0	7	176	0	101	0	67	0	168	0	0	150	170	6	320	664
5:00 PM	0	0	0	0	0	0	0	26	13	0	0	39	0	19	0	10	0	29	0	0	45	27	1	72	140
5:15 PM	0	0	0	0	0	0	0	25	23	0	0	48	0	19	0	18	0	37	0	0	37	36	0	73	158
5:30 PM	0	0	0	0	0	0	0	31	19	0	2	50	0	27	0	15	0	42	0	0	25	38	1	63	155
5:45 PM	0	0	0	0	0	0	0	22	13	0	0	35	0	18	0	26	0	44	0	0	26	30	0	56	135
Hourly Total	0	0	0	0	0	0	0	104	68	0	2	172	0	83	0	69	0	152	0	0	133	131	2	264	588
6:00 PM	0	0	0	0	0	0	0	22	11	0	0	33	0	18	0	17	0	35	0	0	28	38	0	66	134
6:15 PM	0	0	0	0	0	0	0	20	10	0	0	30	0	18	0	14	0	32	0	0	31	33	0	64	126
6:30 PM	0	0	0	0	0	0	0	13	6	0	0	19	0	15	0	24	0	39	0	0	30	26	1	56	114
6:45 PM	0	0	0	0	0	0	0	17	8	0	0	25	0	13	0	14	1	27	0	0	27	31	2	58	110
Hourly Total	0	0	0	0	0	0	0	72	35	0	0	107	0	64	0	69	1	133	0	0	116	128	3	244	484
7:00 PM	0	0	0	0	0	0	0	18	12	0	0	30	0	20	0	10	0	30	0	0	30	31	1	61	121
7:15 PM	0	0	0	0	0	0	0	19	7	0	0	26	0	8	0	12	0	20	0	0	14	26	3	40	86
7:30 PM	0	0	0	0	0	0	0	12	3	0	1	15	0	13	0	15	0	28	0	0	19	24	5	43	86
7:45 PM	0	0	0	0	0	0	0	20	7	0	0	27	0	12	0	12	0	24	0	0	16	30	2	46	97
Hourly Total	0	0	0	0	0	0	0	69	29	0	1	98	0	53	0	49	0	102	0	0	79	111	11	190	390
8:00 PM	0	0	0	0	0	0	0	12	9	0	0	21	0	14	0	12	0	26	0	0	31	23	2	54	101
8:15 PM	0	0	0	0	0	0	0	12	6	0	0	18	0	6	0	12	0	18	0	0	16	23	0	39	75
8:30 PM	0	0	0	0	0	0	0	13	5	0	0	18	0	5	0	16	0	21	0	0	22	17	1	39	78
8:45 PM	0	0	0	0	0	0	0	14	7	0	0	21	1	4	0	12	0	17	0	0	14	16	0	30	68
Hourly Total	0	0	0	0	0	0	0	51	27	0	0	78	1	29	0	52	0	82	0	0	83	79	3	162	322
9:00 PM	0	0	0	0	0	0	0	11	7	0	0	18	0	7	0	16	0	23	0	0	17	16	0	33	74
9:15 PM	0	0	0	0	0	0	0	7	2	0	0	9	0	11	0	9	0	20	0	0	11	12	0	23	52
9:30 PM	0	0	0	0	0	0	0	8	5	0	0	13	0	4	0	4	1	8	0	0	13	13	1	26	47
9:45 PM	0	0	0	0	0	0	0	3	6	0	0	9	0	10	0	5	0	15	0	0	9	16	1	25	49
Hourly Total	0	0	0	0	0	0	0	29	20	0	0	49	0	32	0	34	1	66	0	0	50	57	2	107	222
10:00 PM	0	0	0	0	0	0	0	7	4	0	0	11	0	6	0	2	0	8	0	0	14	5	1	19	38
10:15 PM	0	0	0	0	0	0	0	3	3	0	0	6	0	1	0	3	0	4	0	0	12	5	0	17	27
10:30 PM	0	0	0	0	0	0	0	7	2	0	0	9	0	0	0	2	0	2	0	0	3	3	0	6	17
10:45 PM	0	0	0	0	0	0	0	3	3	0	0	6	0	3	0	3	0	6	0	0	4	5	0	9	21
Hourly Total	0	0	0	0	0	0	0	20	12	0	0	32	0	10	0	10	0	20	0	0	33	18	1	51	103
11:00 PM	0	0	0	0	0	0	0	3	0	0	0	3	0	5	0	2	0	7	0	0	4	3	0	7	17
11:15 PM	0	0	0	0	0	0	0	3	1	0	0	4	0	1	0	3	0	4	0	0	3	0	0	3	11
11:30 PM	0	0	0	0	0	0	0	2	1	0	0	3	0	1	0	4	0	5	0	0	6	6	0	12	20
11:45 PM	0	0	0	0	0	0	0	2	1	0	0	3	0	3	0	1	0	4	0	0	5	2	0	7	14
Hourly Total	0	0	0	0	0	0	0	10	3	0	0	13	0	10	0	10	0	20	0	0	18	11	0	29	62
DAILY TOTAL	0	0	0	0	0	0	0	1358	734	0	17	2092	1	857	0	779	7	1637	0	0	1677	1927	54	3604	7333
Cars	0	0	0	0	0	0	0	1322	719	0	7	2041	1	848	0	776	4	1625	0	0	1635	1914	28	3549	7215
Heavy Vehicles	0	0	0	0	0	0	0	36	15	0	10	51	0	9	0	3	3	12	0	0	42	13	26	55	118
Heavy Vehicle %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.65%	2.04%	0.00%	58.82%	2.44%	0.00%	1.05%	0.00%	0.39%	42.86%	0.73%	0.00%	0.00%	2.50%	0.67%	48.15%	1.53%	1.61%

**TMC 2467 - 89th Ave @ Jefferson St
Blaine MN
Wednesday, July 10, 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		
11:00 AM	0	0	0	0	0	0	0	0	19	7	0	0	26	0	19	0	14	0	33	0	0	24	36	0	60	119			
11:15 AM	0	0	0	0	0	0	0	0	27	13	0	0	40	0	15	0	20	0	35	0	0	26	41	1	67	142			
11:30 AM	0	0	0	0	0	0	0	0	22	8	0	0	30	0	22	0	15	0	37	0	0	28	49	0	77	144			
11:45 AM	0	0	0	0	0	0	0	0	27	18	0	1	45	0	17	0	13	0	30	0	0	35	46	0	81	156			
Peak Hour Total	0	0	0	0	0	0	0	0	95	46	0	1	141	0	73	0	62	0	135	0	0	113	172	1	285	561			
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.880	0.639	0.000	0.250	0.783	0.000	0.830	0.000	0.775	0.000	0.912	0.000	0.000	0.807	0.878	0.250	0.880	0.899			

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		
4:00 PM	0	0	0	0	0	0	0	0	33	14	0	0	47	0	26	0	24	0	50	0	0	35	43	3	78	175			
4:15 PM	0	0	0	0	0	0	0	0	25	19	0	0	44	0	21	0	13	0	34	0	0	48	47	0	95	173			
4:30 PM	0	0	0	0	0	0	0	0	36	15	0	3	51	0	29	0	14	0	43	0	0	31	39	3	70	164			
4:45 PM	0	0	0	0	0	0	0	0	24	10	0	4	34	0	25	0	16	0	41	0	0	36	41	0	77	152			
Peak Hour Total	0	0	0	0	0	0	0	0	118	58	0	7	176	0	101	0	67	0	168	0	0	150	170	6	320	664			
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.819	0.763	0.000	0.438	0.863	0.000	0.871	0.000	0.698	0.000	0.840	0.000	0.000	0.781	0.904	0.500	0.842	0.949			

Total Vehicles On Leg		0	
Vehicles Entering Intersection	0	Vehicles Exiting Intersection	0
Southbound			
Cars	0	0	0
Heavy	0	0	0
Total	0	0	0



Total Vehicles on Leg 5195	Eastbound	Vehicles Entering Intersection 3604	Cars	Heavy	Total	
		Vehicles Exiting Intersection 1591	28	26	54	
			0	0	0	
			0	0	0	
			1635	42	1677	
1914	13	1927				

Daily Volumes

Total Vehicles on Leg 4548	Westbound	Vehicles Entering Intersection 2092	Cars	Heavy	Total	
		Vehicles Exiting Intersection 2456	0	0	0	
			719	15	734	
			1322	36	1358	
			0	0	0	
7	10	17				

Total Vehicles On Leg		4923	
Vehicles Entering Intersection	1637	Vehicles Exiting Intersection	3286
Cars	4	1	848
Heavy	3	0	9
Total	7	1	857

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/16/2024

Signal Warrants - Summary

Major Street Approaches

Eastbound: 89th Ave

Number of Lanes : 1

Total Approach Volume: 3,604

Westbound: 89th Ave

Number of Lanes :2+

Total Approach Volume: 2,092

Minor Street Approaches

Northbound: 87th Ln

Number of Lanes :1

Total Approach Volume: 858

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 EB	+	Major WB	=		Minor NB	Minor SB	
	89th Ave					87th Ln		
16:00 - 17:00	320	+	176	=	496	101	0	No
15:30 - 16:30	318	+	175	=	493	89	0	No
15:45 - 16:45	311	+	179	=	490	98	0	No
16:15 - 17:15	314	+	168	=	482	94	0	No
11:15 - 12:15	307	+	157	=	464	79	0	No
16:30 - 17:30	292	+	172	=	464	92	0	No
15:15 - 16:15	291	+	172	=	463	92	0	No
11:30 - 12:30	310	+	149	=	459	80	0	No
13:00 - 14:00	268	+	189	=	457	70	0	No
16:45 - 17:45	285	+	171	=	456	90	0	No
12:45 - 13:45	266	+	186	=	452	62	0	No
11:45 - 12:45	288	+	159	=	447	82	0	No
13:15 - 14:15	278	+	168	=	446	64	0	No
13:30 - 14:30	286	+	157	=	443	71	0	No
14:45 - 15:45	277	+	166	=	443	85	0	No
12:15 - 13:15	268	+	173	=	441	76	0	No
12:30 - 13:30	260	+	180	=	440	71	0	No
15:00 - 16:00	278	+	159	=	437	92	0	No
17:00 - 18:00	264	+	172	=	436	83	0	No
13:45 - 14:45	291	+	141	=	432	72	0	No
12:00 - 13:00	273	+	159	=	432	78	0	No
14:00 - 15:00	290	+	137	=	427	66	0	No
11:00 - 12:00	285	+	141	=	426	73	0	No
17:15 - 18:15	258	+	166	=	424	82	0	No
14:30 - 15:30	266		149		415	81	0	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 EB	+	Major WB	=		Minor NB	Minor SB	
16:00 - 17:00	320	+	176	=	496	101	0	No
15:30 - 16:30	318	+	175	=	493	89	0	No
15:45 - 16:45	311	+	179	=	490	98	0	No
16:15 - 17:15	314	+	168	=	482	94	0	No
11:15 - 12:15	307	+	157	=	464	79	0	No
16:30 - 17:30	292	+	172	=	464	92	0	No
15:15 - 16:15	291	+	172	=	463	92	0	No
11:30 - 12:30	310	+	149	=	459	80	0	No
13:00 - 14:00	268	+	189	=	457	70	0	No
16:45 - 17:45	285	+	171	=	456	90	0	No
12:45 - 13:45	266	+	186	=	452	62	0	No
11:45 - 12:45	288	+	159	=	447	82	0	No
13:15 - 14:15	278	+	168	=	446	64	0	No
13:30 - 14:30	286	+	157	=	443	71	0	No
14:45 - 15:45	277	+	166	=	443	85	0	No
12:15 - 13:15	268	+	173	=	441	76	0	No
12:30 - 13:30	260	+	180	=	440	71	0	No
15:00 - 16:00	278	+	159	=	437	92	0	No
17:00 - 18:00	264	+	172	=	436	83	0	No
13:45 - 14:45	291	+	141	=	432	72	0	No
12:00 - 13:00	273	+	159	=	432	78	0	No
14:00 - 15:00	290	+	137	=	427	66	0	No
11:00 - 12:00	285	+	141	=	426	73	0	No
17:15 - 18:15	258	+	166	=	424	82	0	No
14:30 - 15:30	266		149		415	81	0	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
89th Ave

Minor Road
87th Ln

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
16:00 - 17:00	320	+	176	=	496	101	0	No
15:30 - 16:30	318	+	175	=	493	89	0	No
15:45 - 16:45	311	+	179	=	490	98	0	No
16:15 - 17:15	314	+	168	=	482	94	0	No
16:30 - 17:30	292	+	172	=	464	92	0	No
11:15 - 12:15	307	+	157	=	464	79	0	No
15:15 - 16:15	291	+	172	=	463	92	0	No
11:30 - 12:30	310	+	149	=	459	80	0	No
13:00 - 14:00	268	+	189	=	457	70	0	No
16:45 - 17:45	285	+	171	=	456	90	0	No
12:45 - 13:45	266	+	186	=	452	62	0	No
11:45 - 12:45	288	+	159	=	447	82	0	No

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:00 - 17:00	320	+	176	=	496	101	0	No
15:30 - 16:30	318	+	175	=	493	89	0	No
15:45 - 16:45	311	+	179	=	490	98	0	No
16:15 - 17:15	314	+	168	=	482	94	0	No
16:30 - 17:30	292	+	172	=	464	92	0	No
11:15 - 12:15	307	+	157	=	464	79	0	No
15:15 - 16:15	291	+	172	=	463	92	0	No
11:30 - 12:30	310	+	149	=	459	80	0	No
13:00 - 14:00	268	+	189	=	457	70	0	No
16:45 - 17:45	285	+	171	=	456	90	0	No
12:45 - 13:45	266	+	186	=	452	62	0	No
11:45 - 12:45	288	+	159	=	447	82	0	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.

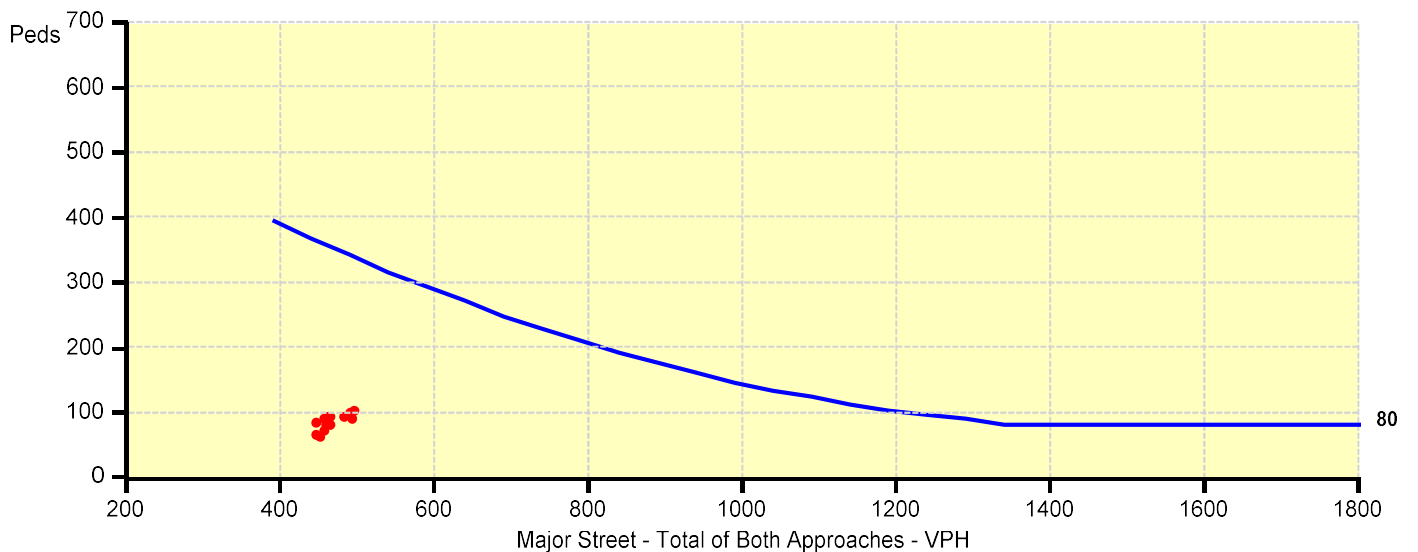
Summary

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 89th Ave				Total	Minor Road 87th Ln		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:00 - 17:00	320	+	176	=	496	101	0	No
15:30 - 16:30	318	+	175	=	493	89	0	No
15:45 - 16:45	311	+	179	=	490	98	0	No
16:15 - 17:15	314	+	168	=	482	94	0	No
11:15 - 12:15	307	+	157	=	464	79	0	No
16:30 - 17:30	292	+	172	=	464	92	0	No
15:15 - 16:15	291	+	172	=	463	92	0	No
11:30 - 12:30	310	+	149	=	459	80	0	No
13:00 - 14:00	268	+	189	=	457	70	0	No
16:45 - 17:45	285	+	171	=	456	90	0	No
12:45 - 13:45	266	+	186	=	452	62	0	No
11:45 - 12:45	288	+	159	=	447	82	0	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 89th Ave				Total	Minor Road 87th Ln		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:00 - 17:00	320	+	176	=	496	101	0	No
15:30 - 16:30	318	+	175	=	493	89	0	No
15:45 - 16:45	311	+	179	=	490	98	0	No
16:15 - 17:15	314	+	168	=	482	94	0	No
11:15 - 12:15	307	+	157	=	464	79	0	No
16:30 - 17:30	292	+	172	=	464	92	0	No
15:15 - 16:15	291	+	172	=	463	92	0	No
11:30 - 12:30	310	+	149	=	459	80	0	No
13:00 - 14:00	268	+	189	=	457	70	0	No
16:45 - 17:45	285	+	171	=	456	90	0	No
12:45 - 13:45	266	+	186	=	452	62	0	No
11:45 - 12:45	288	+	159	=	447	82	0	No

