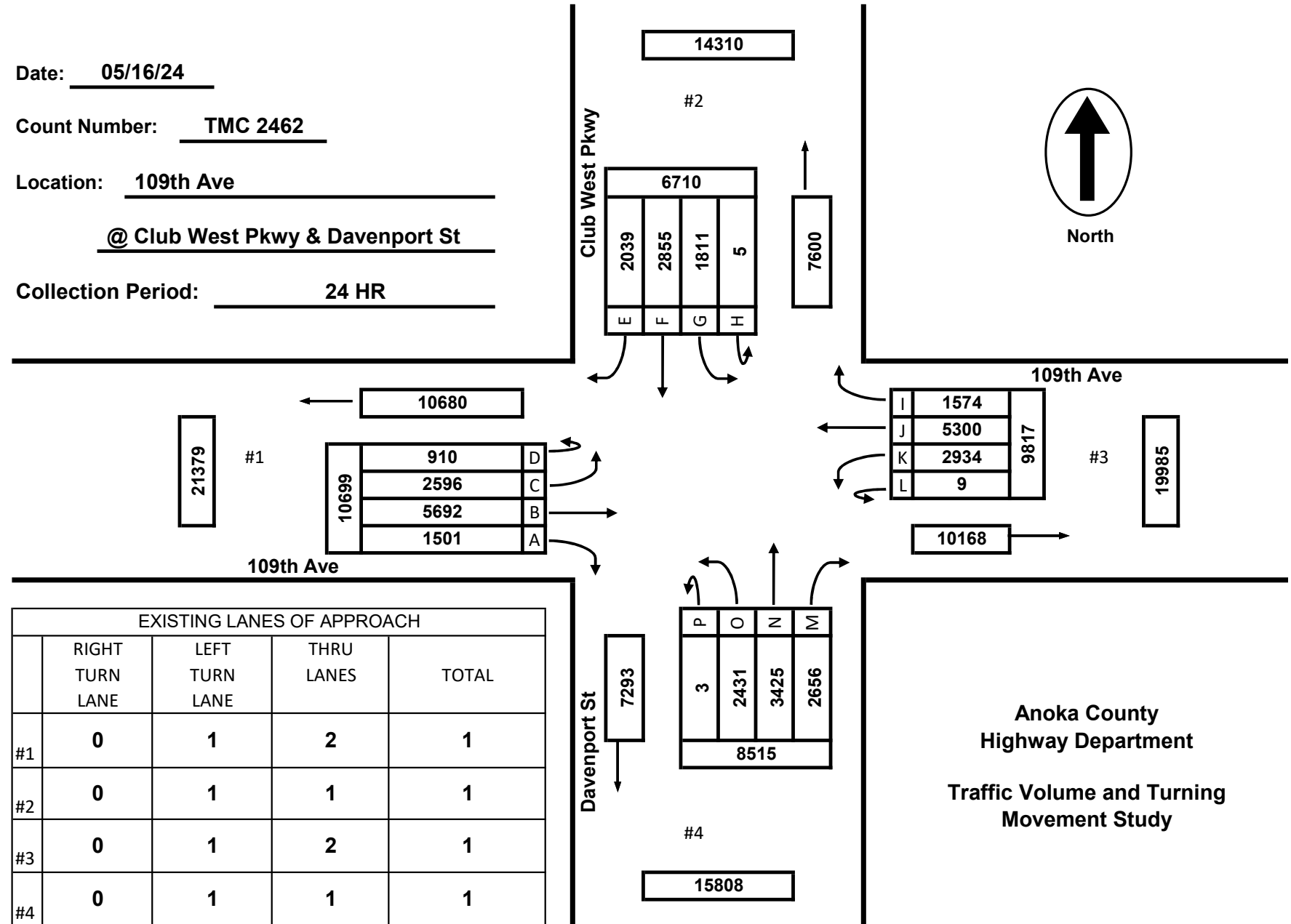


Date: 05/16/24

Count Number: TMC 2462

Location: 109th Ave  
@ Club West Pkwy & Davenport St

Collection Period: 24 HR



Anoka County  
Highway Department

Traffic Volume and Turning  
Movement Study

Date: 05/16/24

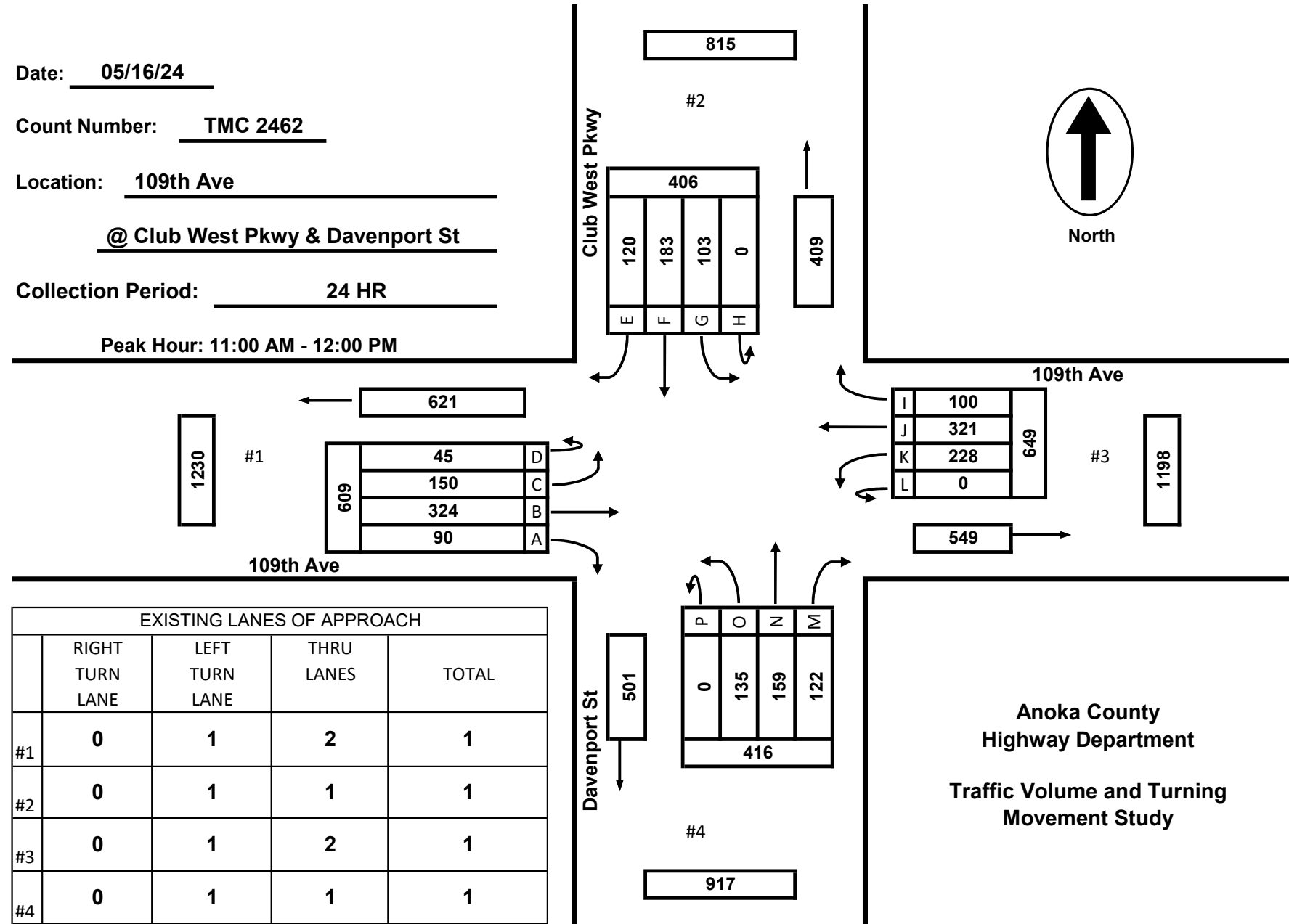
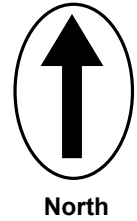
Count Number: TMC 2462

Location: 109th Ave

@ Club West Pkwy & Davenport St

Collection Period: 24 HR

Peak Hour: 11:00 AM - 12:00 PM



Anoka County  
Highway Department

Traffic Volume and Turning  
Movement Study

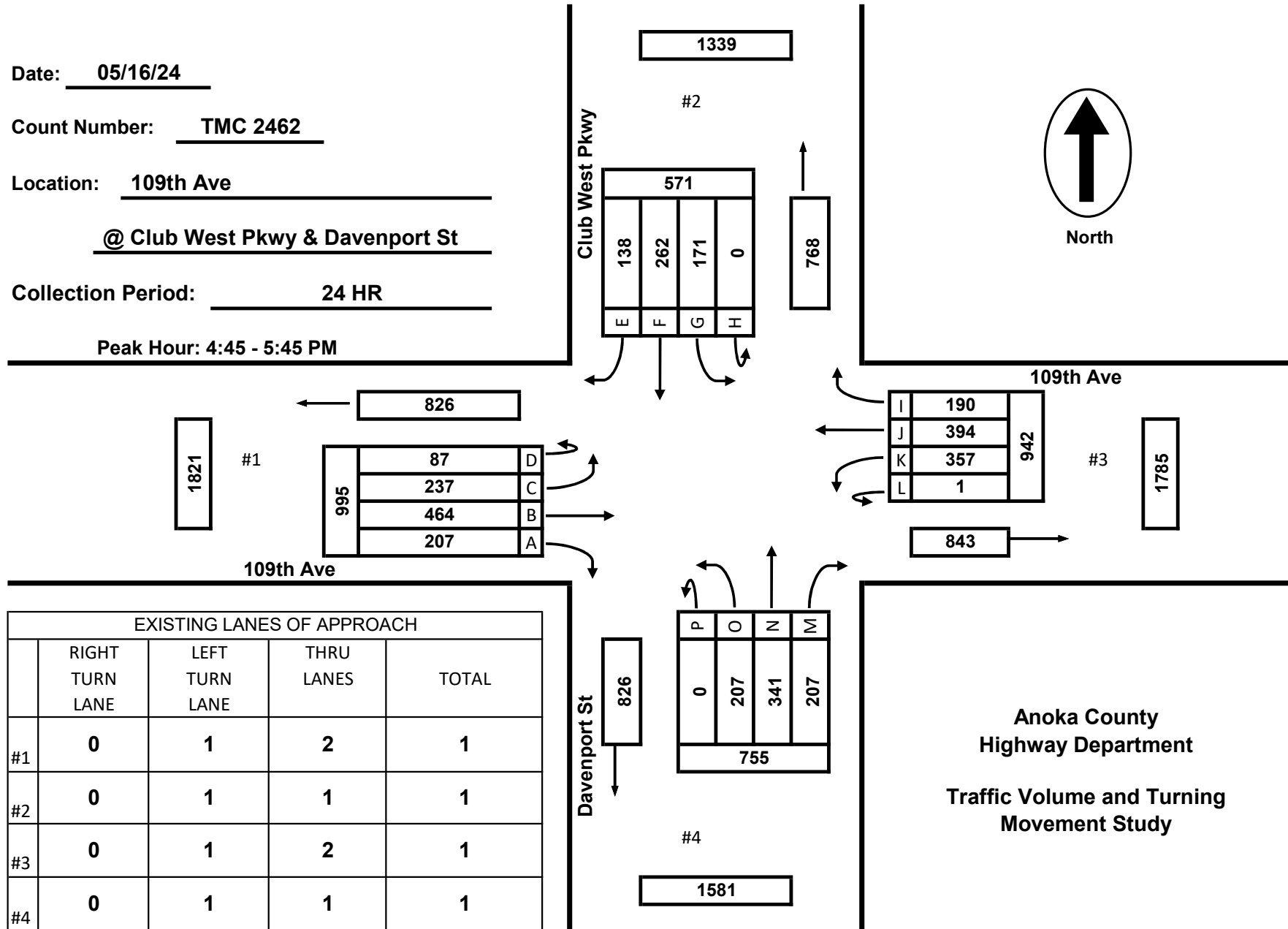
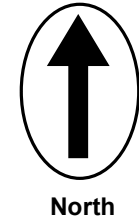
Date: 05/16/24

Count Number: TMC 2462

Location: 109th Ave  
@ Club West Pkwy & Davenport St

Collection Period: 24 HR

Peak Hour: 4:45 - 5:45 PM



Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

**TMC 2462 109th Ave @ Club West Pkwy on the north side (SB), Davenport St on the south side (NB)  
Blaine MN  
Thursday, May 16, 2024**

Time	Southbound Club West Pkwy						Westbound 109th Ave						Northbound Davenport St						Eastbound 109th 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	1	4	0	5	0	0	5	2	0	7	0	2	2	2	0	6	2	6	10	0	0	18	36
12:15 AM	0	0	1	3	0	4	0	0	7	0	0	7	0	1	0	1	0	2	0	3	7	0	0	10	23
12:30 AM	0	1	0	0	0	1	0	0	13	1	0	14	0	0	0	0	0	0	0	2	3	0	0	5	20
12:45 AM	0	1	0	3	0	4	0	0	2	4	0	6	0	0	0	1	0	1	1	6	4	0	0	11	22
Hourly Total	0	2	2	10	0	14	0	0	27	7	0	34	0	3	2	4	0	9	3	17	24	0	0	44	101
1:00 AM	0	0	1	0	0	1	0	0	9	0	0	9	0	0	0	1	0	1	2	8	5	1	0	16	27
1:15 AM	0	1	1	1	0	3	0	0	5	0	0	5	0	0	0	0	0	0	0	4	3	0	0	7	15
1:30 AM	0	1	1	0	0	2	0	0	8	1	0	9	0	2	0	0	0	2	2	0	4	1	0	7	20
1:45 AM	0	1	0	1	0	2	0	1	6	0	0	7	0	1	1	0	0	2	1	2	2	0	0	5	16
Hourly Total	0	3	3	2	0	8	0	1	28	1	0	30	0	3	1	1	0	5	5	14	14	2	0	35	78
2:00 AM	0	0	1	4	0	5	0	0	8	0	0	8	0	0	0	0	0	0	0	1	3	0	0	4	17
2:15 AM	0	2	0	1	0	3	0	0	4	0	0	4	0	1	1	1	0	3	0	1	4	0	0	5	15
2:30 AM	0	1	0	1	0	2	0	0	8	0	0	8	0	0	1	1	0	2	0	0	5	0	0	5	17
2:45 AM	0	0	2	0	0	2	0	0	2	0	0	2	0	2	0	1	0	3	1	1	3	0	0	5	12
Hourly Total	0	3	3	6	0	12	0	0	22	0	0	22	0	3	2	3	0	8	1	3	15	0	0	19	61
3:00 AM	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	0	0	7	0	0	7	10
3:15 AM	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	5	1	0	7	9
3:30 AM	0	1	1	0	0	2	0	1	2	0	0	3	0	0	0	1	0	1	0	0	4	2	0	6	12
3:45 AM	0	1	1	2	0	4	0	2	3	0	0	5	0	0	0	0	0	0	0	1	6	1	0	8	17
Hourly Total	0	2	2	3	0	7	0	4	8	0	0	12	0	0	0	1	0	1	0	2	22	4	0	28	48
4:00 AM	0	1	0	0	0	1	0	0	6	0	0	6	0	0	0	0	0	0	0	2	10	0	0	12	19
4:15 AM	0	6	4	3	0	13	0	1	15	5	0	21	0	0	1	0	0	1	1	2	12	1	0	16	51
4:30 AM	0	5	3	5	0	13	0	8	13	0	0	21	0	0	1	0	0	1	0	2	24	1	0	27	62
4:45 AM	0	4	4	2	0	10	0	12	15	2	0	29	0	1	1	1	0	3	0	1	24	5	0	30	72
Hourly Total	0	16	11	10	0	37	0	21	49	7	0	77	0	1	3	1	0	5	1	7	70	7	0	85	204
5:00 AM	0	5	2	7	0	14	0	3	10	1	0	14	0	0	0	2	0	2	0	2	18	4	0	24	54
5:15 AM	0	12	7	6	0	25	0	2	20	9	1	31	0	0	2	2	0	4	1	5	23	3	0	32	92
5:30 AM	0	14	16	16	0	46	0	4	36	0	0	40	0	1	0	2	1	3	2	2	30	9	0	43	132
5:45 AM	0	14	18	6	0	38	0	11	23	2	1	36	0	1	1	6	0	8	2	2	53	13	0	70	152
Hourly Total	0	45	43	35	0	123	0	20	89	12	2	121	0	2	3	12	1	17	5	11	124	29	0	169	430
6:00 AM	0	20	12	13	0	45	0	9	27	7	0	43	0	2	5	4	0	11	3	2	32	5	0	42	141
6:15 AM	0	19	17	21	0	57	0	6	40	14	0	60	0	3	7	8	0	18	0	13	58	6	0	77	212
6:30 AM	0	23	14	28	0	65	1	17	51	10	0	79	0	8	4	7	0	19	1	12	71	14	0	98	261
6:45 AM	0	29	42	29	0	100	0	22	70	13	0	105	0	2	7	9	0	18	2	10	75	10	0	97	320
Hourly Total	0	91	85	91	0	267	1	54	188	44	0	287	0	15	23	28	0	66	6	37	236	35	0	314	934
7:00 AM	0	33	28	34	0	95	0	26	85	12	0	123	0	5	5	8	0	18	0	13	69	13	0	95	331
7:15 AM	0	43	43	34	0	120	0	24	107	17	0	148	0	6	12	11	0	29	3	14	61	9	0	87	384
7:30 AM	0	45	50	44	0	139	0	35	136	15	0	186	0	15	10	22	0	47	3	25	73	10	0	111	483
7:45 AM	0	29	61	40	0	130	0	54	127	31	1	212	0	10	15	19	0	44	2	40	109	21	0	172	558
Hourly Total	0	150	182	152	0	484	0	139	455	75	1	669	0	36	42	60	0	138	8	92	312	53	0	465	1756

**TMC 2462 109th Ave @ Club West Pkwy on the north side (SB), Davenport St on the south side (NB)  
Blaine MN  
Thursday, May 16, 2024**

Time	Southbound Club West Pkwy						Westbound 109th Ave						Northbound Davenport St						Eastbound 109th 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	26	27	35	0	88	0	28	110	19	0	157	0	12	15	12	0	39	3	31	86	14	0	134	418
8:15 AM	0	18	35	37	0	90	1	34	89	25	0	149	0	12	30	13	0	55	0	28	85	13	0	126	420
8:30 AM	0	26	28	40	0	94	0	33	101	14	0	148	0	10	20	23	0	53	5	42	62	5	0	114	409
8:45 AM	0	22	43	40	0	105	0	44	104	23	0	171	0	10	19	29	0	58	2	33	80	20	0	135	469
Hourly Total	0	92	133	152	0	377	1	139	404	81	0	625	0	44	84	77	0	205	10	134	313	52	0	509	1716
9:00 AM	0	25	40	30	0	95	0	37	79	20	0	136	0	26	28	28	0	82	3	32	81	19	0	135	448
9:15 AM	0	29	34	35	0	98	0	37	89	42	0	168	0	26	32	17	0	75	10	41	72	9	0	132	473
9:30 AM	0	28	48	27	0	103	0	48	91	28	0	167	0	26	22	17	0	65	8	38	69	15	1	130	465
9:45 AM	0	27	30	32	0	89	0	25	101	30	0	156	0	32	18	34	0	84	9	29	68	10	0	116	445
Hourly Total	0	109	152	124	0	385	0	147	360	120	0	627	0	110	100	96	0	306	30	140	290	53	1	513	1831
10:00 AM	0	26	38	32	0	96	0	36	67	17	0	120	0	22	24	20	0	66	11	32	74	10	0	127	409
10:15 AM	0	35	47	38	0	120	0	18	100	15	0	133	0	19	35	17	0	71	10	35	66	29	0	140	464
10:30 AM	0	21	44	53	0	118	0	41	94	22	0	157	0	26	30	22	0	78	8	25	91	19	0	143	496
10:45 AM	1	21	43	34	0	99	0	51	91	14	0	156	0	27	44	31	0	102	10	37	83	19	1	149	506
Hourly Total	1	103	172	157	0	433	0	146	352	68	0	566	0	94	133	90	0	317	39	129	314	77	1	559	1875
11:00 AM	0	25	45	23	0	93	0	49	88	28	0	165	0	31	44	31	0	106	7	38	57	25	1	127	491
11:15 AM	0	27	34	35	0	96	0	52	75	19	0	146	0	28	39	25	1	92	6	34	101	21	1	162	496
11:30 AM	0	22	52	31	0	105	0	68	86	24	0	178	0	30	36	33	0	99	13	38	92	23	1	166	548
11:45 AM	0	29	52	31	0	112	0	59	72	29	0	160	0	46	40	33	0	119	19	40	74	21	0	154	545
Hourly Total	0	103	183	120	0	406	0	228	321	100	0	649	0	135	159	122	1	416	45	150	324	90	3	609	2080
12:00 PM	0	28	56	35	2	119	1	60	85	20	0	166	0	41	45	49	0	135	15	42	100	23	0	180	600
12:15 PM	0	32	52	23	0	107	0	57	73	22	0	152	0	42	57	47	0	146	21	35	62	25	0	143	548
12:30 PM	1	24	46	29	0	100	0	56	71	21	2	148	0	41	44	42	0	127	16	47	90	26	0	179	554
12:45 PM	0	29	52	34	0	115	0	50	77	30	0	157	0	37	49	39	0	125	15	37	92	27	0	171	568
Hourly Total	1	113	206	121	2	441	1	223	306	93	2	623	0	161	195	177	0	533	67	161	344	101	0	673	2270
1:00 PM	0	23	38	37	0	98	0	41	59	16	0	116	0	43	50	46	0	139	14	50	87	20	0	171	524
1:15 PM	0	25	44	22	0	91	0	44	64	22	0	130	0	39	37	32	0	108	15	48	98	33	0	194	523
1:30 PM	1	28	42	27	0	98	0	40	58	21	0	119	0	48	45	42	0	135	18	35	97	22	0	172	524
1:45 PM	0	24	45	26	0	95	0	39	81	19	0	139	0	49	39	45	0	133	18	37	85	25	0	165	532
Hourly Total	1	100	169	112	0	382	0	164	262	78	0	504	0	179	171	165	0	515	65	170	367	100	0	702	2103
2:00 PM	0	28	52	34	0	114	0	38	79	16	0	133	0	40	54	42	0	136	13	34	100	22	0	169	552
2:15 PM	0	22	38	27	0	87	0	56	92	24	0	172	0	50	51	42	0	143	12	25	74	26	0	137	539
2:30 PM	0	30	46	26	0	102	1	44	86	26	0	157	0	40	58	48	0	146	17	41	110	24	0	192	597
2:45 PM	0	30	45	36	0	111	1	45	86	24	0	156	0	43	64	47	0	154	15	55	105	25	0	200	621
Hourly Total	0	110	181	123	0	414	2	183	343	90	0	618	0	173	227	179	0	579	57	155	389	97	0	698	2309
3:00 PM	1	30	45	30	0	106	0	45	94	26	1	165	0	54	60	48	0	162	22	25	110	30	1	187	620
3:15 PM	0	31	53	40	0	124	0	51	95	36	2	182	0	56	68	62	0	186	18	55	108	24	0	205	697
3:30 PM	0	32	55	32	0	119	0	52	109	39	1	200	0	30	68	59	0	157	19	59	109	21	0	208	684
3:45 PM	0	22	53	32	0	107	0	68	119	46	3	233	0	48	73	50	0	171	24	51	119	23	0	217	728
Hourly Total	1	115	206	134	0	456	0	216	417	147	7	780	0	188	269	219	0	676	83	190	446	98	1	817	2729

**TMC 2462 109th Ave @ Club West Pkwy on the north side (SB), Davenport St on the south side (NB)  
Blaine MN  
Thursday, May 16, 2024**

Time	Southbound Club West Pkwy						Westbound 109th Ave						Northbound Davenport St						Eastbound 109th 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	32	48	35	0	115	0	74	91	42	0	207	0	40	93	45	0	178	24	59	114	28	0	225	725
4:15 PM	0	38	58	29	0	125	1	53	105	43	0	202	0	65	96	47	0	208	20	66	113	17	0	216	751
4:30 PM	0	39	60	40	0	139	0	48	98	35	0	181	0	57	101	59	0	217	10	56	113	31	1	210	747
4:45 PM	0	38	65	27	0	130	0	76	96	57	0	229	0	61	88	63	0	212	17	58	104	51	0	230	801
Hourly Total	0	147	231	131	0	509	1	251	390	177	0	819	0	223	378	214	0	815	71	239	444	127	1	881	3024
5:00 PM	0	48	55	39	0	142	0	80	137	41	0	258	0	45	98	43	0	186	22	57	119	33	6	231	817
5:15 PM	0	44	67	40	0	151	1	108	78	62	1	249	0	51	79	57	0	187	17	57	120	72	0	266	853
5:30 PM	0	41	75	32	1	148	0	93	83	30	2	206	0	50	76	44	0	170	31	65	121	51	0	268	792
5:45 PM	0	26	59	35	0	120	1	66	85	23	0	175	0	45	68	59	1	172	16	69	122	26	0	233	700
Hourly Total	0	159	256	146	1	561	2	347	383	156	3	888	0	191	321	203	1	715	86	248	482	182	6	998	3162
6:00 PM	0	27	57	27	0	111	0	66	93	36	0	195	0	42	50	41	0	133	23	57	96	44	0	220	659
6:15 PM	0	38	53	43	0	134	1	71	80	30	0	182	0	51	62	45	0	158	15	57	90	55	0	217	691
6:30 PM	0	24	59	32	0	115	0	62	62	24	0	148	0	64	79	64	0	207	20	62	82	46	9	210	680
6:45 PM	0	30	41	21	0	92	0	45	71	22	0	138	0	77	70	84	0	231	25	60	105	35	1	225	686
Hourly Total	0	119	210	123	0	452	1	244	306	112	0	663	0	234	261	234	0	729	83	236	373	180	10	872	2716
7:00 PM	0	19	44	26	0	89	0	47	47	26	2	120	0	51	64	47	0	162	16	53	94	33	2	196	567
7:15 PM	0	19	35	25	0	79	0	45	41	18	0	104	0	41	60	47	0	148	25	53	83	32	0	193	524
7:30 PM	0	11	27	17	0	55	0	52	52	18	1	122	0	44	53	48	0	145	12	31	65	23	0	131	453
7:45 PM	1	21	46	22	0	90	0	31	40	15	4	86	0	69	97	73	0	239	26	27	63	28	0	144	559
Hourly Total	1	70	152	90	0	313	0	175	180	77	7	432	0	205	274	215	0	694	79	164	305	116	2	664	2103
8:00 PM	0	17	30	22	1	69	0	33	48	15	1	96	0	56	83	45	0	184	33	51	67	22	0	173	522
8:15 PM	0	16	39	25	0	80	0	31	43	14	0	88	0	55	109	64	0	228	29	40	66	18	0	153	549
8:30 PM	0	5	22	13	0	40	0	26	43	14	0	83	0	52	80	58	0	190	33	30	57	17	1	137	450
8:45 PM	0	15	20	21	0	56	0	26	51	11	0	88	0	43	95	57	0	195	20	21	61	10	0	112	451
Hourly Total	0	53	111	81	1	245	0	116	185	54	1	355	0	206	367	224	0	797	115	142	251	67	1	575	1972
9:00 PM	0	16	26	14	0	56	0	32	45	12	0	89	0	50	77	63	0	190	3	21	40	4	0	68	403
9:15 PM	0	9	27	18	0	54	0	17	42	10	0	69	0	29	87	46	0	162	4	18	23	4	1	49	334
9:30 PM	0	12	21	16	0	49	0	14	26	7	0	47	1	31	51	34	0	117	9	12	30	4	0	55	268
9:45 PM	0	8	19	12	0	39	0	6	14	9	0	29	2	25	31	29	0	87	7	12	28	1	0	48	203
Hourly Total	0	45	93	60	0	198	0	69	127	38	0	234	3	135	246	172	0	556	23	63	121	13	1	220	1208
10:00 PM	0	15	17	17	0	49	0	10	10	7	0	27	0	30	40	43	0	113	11	18	12	5	0	46	235
10:15 PM	0	10	6	8	0	24	0	10	22	6	0	38	0	17	45	27	0	89	4	9	16	3	0	32	183
10:30 PM	0	6	13	8	0	27	0	6	20	5	0	31	0	18	27	28	0	73	3	12	15	3	0	33	164
10:45 PM	0	10	7	5	0	22	0	6	4	8	0	18	0	8	11	20	0	39	4	18	18	2	0	42	121
Hourly Total	0	41	43	38	0	122	0	32	56	26	0	114	0	73	123	118	0	314	22	57	61	13	0	153	703
11:00 PM	0	9	14	7	0	30	0	6	13	4	0	23	0	3	12	15	0	30	1	13	19	1	0	34	117
11:15 PM	0	7	6	4	0	17	0	4	11	2	0	17	0	8	11	10	0	29	3	6	13	2	0	24	87
11:30 PM	0	2	6	5	0	13	0	5	16	3	0	24	0	4	10	10	0	24	2	9	10	2	0	23	84
11:45 PM	0	2	0	2	0	4	0	0	2	2	0	4	0	2	8	6	0	16	0	7	9	0	0	16	40
Hourly Total	0	20	26	18	0	64	0	15	42	11	0	68	0	17	41	41	0	99	6	35	51	5	0	97	328
<b>DAILY TOTAL</b>	<b>5</b>	<b>1811</b>	<b>2855</b>	<b>2039</b>	<b>4</b>	<b>6710</b>	<b>9</b>	<b>2934</b>	<b>5300</b>	<b>1574</b>	<b>23</b>	<b>9817</b>	<b>3</b>	<b>2431</b>	<b>3425</b>	<b>2656</b>	<b>3</b>	<b>8515</b>	<b>910</b>	<b>2596</b>	<b>5692</b>	<b>1501</b>	<b>27</b>	<b>10699</b>	<b>35741</b>
<b>Cars</b>	5	1798	2843	2013	3	6659	9	2909	5194	1567	16	9679	3	2419	3409	2619	3	8450	910	2572	5523	1485	19	10490	35278
<b>Heavy Vehicles</b>	0	13	12	26	1	51	0	25	106	7	7	138	0	12	16	37	0	65	0	24	169	16	8	209	463
<b>Heavy Vehicle %</b>	0.00%	0.72%	0.42%	1.28%	25.00%	0.76%	0.00%	0.85%	2.00%	0.44%	30.43%	1.41%	0.00%	0.49%	0.47%	1.39%	0.00%	0.76%	0.00%	0.92%	2.97%	1.07%	29.63%	1.95%	1.30%

**TMC 2462 109th Ave @ Club West Pkwy on the north side (SB), Davenport St on the south side (NB)**

**Blaine MN  
Thursday, May 16, 2024**

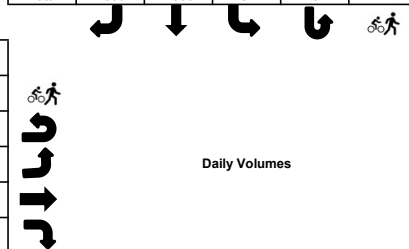
**AM Peak Hour**

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	25	45	23	0	93	0	49	88	28	0	165	0	31	44	31	0	106	7	38	57	25	1	127	491
11:15 AM	0	27	34	35	0	96	0	52	75	19	0	146	0	28	39	25	1	92	6	34	101	21	1	162	496
11:30 AM	0	22	52	31	0	105	0	68	86	24	0	178	0	30	36	33	0	99	13	38	92	23	1	166	548
11:45 AM	0	29	52	31	0	112	0	59	72	29	0	160	0	46	40	33	0	119	19	40	74	21	0	154	545
Peak Hour Total	0	103	183	120	0	406	0	228	321	100	0	649	0	135	159	122	1	416	45	150	324	90	3	609	2080
PHF	0.000	0.888	0.880	0.857	0.000	0.906	0.000	0.838	0.912	0.862	0.000	0.912	0.000	0.734	0.903	0.924	0.250	0.874	0.592	0.938	0.802	0.900	0.750	0.917	0.949

**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	
4:45 PM	0	38	65	27	0	130	0	76	96	57	0	229	0	61	88	63	0	212	17	58	104	51	0	230	801
5:00 PM	0	48	55	39	0	142	0	80	137	41	0	258	0	45	98	43	0	186	22	57	119	33	6	231	817
5:15 PM	0	44	67	40	0	151	1	108	78	62	1	249	0	51	79	57	0	187	17	57	120	72	0	266	853
5:30 PM	0	41	75	32	1	148	0	93	83	30	2	206	0	50	76	44	0	170	31	65	121	51	0	268	792
Peak Hour Total	0	171	262	138	1	571	1	357	394	190	3	942	0	207	341	207	0	755	87	237	464	207	6	995	3263
PHF	0.000	0.891	0.873	0.863	0.250	0.945	0.250	0.826	0.719	0.766	0.375	0.913	0.000	0.848	0.870	0.821	0.000	0.890	0.702	0.912	0.959	0.719	0.250	0.928	0.956

Total Vehicles On Leg				14310			
Vehicles Entering Intersection				Vehicles Exiting Intersection			
6710				7600			
<b>Southbound</b>							
Cars	2013	2843	1798	5	3		
Heavy	26	12	13	0	1		
<b>Total</b>	<b>2039</b>	<b>2855</b>	<b>1811</b>	<b>5</b>	<b>4</b>		



Cars	Heavy	Total	Westbound	Vehicles Entering Intersection	Total Vehicles on Leg		
1567	7	1574				9817	19985
5194	106	5300					
2909	25	2934					
9	0	9					
16	7	23	Vehicles Exiting Intersection	10168			

Total Vehicles on Leg	Vehicles Entering Intersection	Eastbound	Cars	Heavy	Total	Vehicles Exiting Intersection	
			19	8	27		10680
			910	0	910		
			2572	24	2596		
			5523	169	5692		
1485	16	1501					

Cars	Heavy	Total	Northbound	Vehicles Entering Intersection	Vehicles Exiting Intersection		
3	3	2419				8515	7293
0	0	12					
<b>3</b>	<b>3</b>	<b>2431</b>					
<b>Northbound</b>							
Total Vehicles On Leg				15808			





# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2462

Study Date : 05/23/2024

## Signal Warrants - Summary

### Major Street Approaches

**Eastbound: 109th Ave**

Number of Lanes : 2+

Total Approach Volume: 10,699

**Westbound: 109h Ave**

Number of Lanes :2+

Total Approach Volume: 9,817

### Minor Street Approaches

**Northbound: Club West Pkwy**

Number of Lanes :2+

Total Approach Volume: 8,515

**Southbound: Davenport St**

Number of Lanes :2+

Total Approach Volume: 6,710

### Warrant Summary (Rural Values Apply)

**Warrant 1 - Eight Hour Vehicular Volumes.....Satisfied**

**Warrant 1A - Minimum Vehicular Volume.....Satisfied**

Required volumes reached for 16 hours, 8 are needed

**Warrant 1B - Interruption of Continuous Traffic.....Satisfied**

Required volumes reached for 15 hours, 8 are needed

**Warrant 1C - Combination of Warrants.....Satisfied**

Required 1A volumes reached for 17 hours, 8 are needed

Required 1B volumes reached for 16 hours, 8 are needed

**Warrant 2 - Four Hour Volumes.....Satisfied**

Number of hours (16) volumes exceed minimum >= minimum required (4).

**Warrant 3 - Peak Hour.....Satisfied**

**Warrant 3A - Peak Hour Delay.....Satisfied**

Number of one hour periods (63) volumes exceed minimum >= required (1). Delay data not evaluated.

**Warrant 3B - Peak Hour Volumes.....Satisfied**

Volumes exceed minimums for at least 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 2462

Study Date : 05/23/2024

## 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

16 one hour periods meet minimums.  
Warrant IS 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**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	<b>109th Ave</b>					<b>Club West Pkwy</b>		
16:45 - 17:45	995	+	942	=	1937	755	571	Yes
15:45 - 16:45	868	+	823	=	1691	774	486	Yes
17:45 - 18:45	880	+	700	=	1580	670	480	Yes
14:45 - 15:45	800	+	703	=	1503	659	460	Yes
11:45 - 12:45	656	+	626	=	1282	527	438	Yes
13:45 - 14:45	663	+	601	=	1264	558	398	Yes
10:45 - 11:45	604	+	645	=	1249	399	393	Yes
12:45 - 13:45	708	+	522	=	1230	507	402	Yes
18:45 - 19:45	745	+	484	=	1229	686	315	Yes
07:45 - 08:45	546	+	666	=	1212	191	402	Yes
08:45 - 09:45	532	+	642	=	1174	280	401	Yes
09:45 - 10:45	526	+	566	=	1092	299	423	Yes
19:45 - 20:45	607	+	353	=	960	841	279	Yes
06:45 - 07:45	390	+	562	=	952	112	454	Yes
20:45 - 21:45	284	+	293	=	577	664	215	Yes
05:45 - 06:45	287	+	218	=	505	56	205	Yes
05:30 - 06:30	232	+	179	=	411	40	186	No
05:15 - 06:15	187	+	150	=	337	26	154	No
05:00 - 06:00	169	+	121	=	290	17	123	No
21:45 - 22:45	159	+	125	=	284	362	139	No
22:00 - 23:00	153	+	114	=	267	314	122	No
22:15 - 23:15	141	+	110	=	251	231	103	No
04:45 - 05:45	129	+	114	=	243	12	95	No
22:30 - 23:30	133	+	89	=	222	171	96	No
04:30 - 05:30	113		95		208	10	62	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2462

Study Date : 05/23/2024

## 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

15 one hour periods meet minimums.  
Warrant IS 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**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	<b>109th Ave</b>					<b>Club West Pkwy</b>		
17:15 - 18:15	987	+	825	=	1812	662	530	Yes
16:15 - 17:15	887	+	870	=	1757	823	536	Yes
15:15 - 16:15	855	+	822	=	1677	692	465	Yes
18:15 - 19:15	848	+	588	=	1436	758	430	Yes
14:15 - 15:15	716	+	650	=	1366	605	406	Yes
11:15 - 12:15	662	+	650	=	1312	445	432	Yes
12:15 - 13:15	664	+	573	=	1237	537	420	Yes
13:15 - 14:15	700	+	521	=	1221	512	398	Yes
07:15 - 08:15	504	+	703	=	1207	159	477	Yes
10:15 - 11:15	559	+	611	=	1170	357	430	Yes
09:15 - 10:15	505	+	611	=	1116	290	386	Yes
08:15 - 09:15	510	+	604	=	1114	248	384	Yes
19:15 - 20:15	641	+	408	=	1049	716	293	Yes
20:15 - 21:15	470	+	348	=	818	803	232	Yes
06:15 - 07:15	367	+	367	=	734	73	317	Yes
06:00 - 07:00	314	+	287	=	601	66	267	No
05:45 - 06:45	287	+	218	=	505	56	205	No
05:30 - 06:30	232	+	179	=	411	40	186	No
21:15 - 22:15	198	+	172	=	370	479	191	No
05:15 - 06:15	187	+	150	=	337	26	154	No
21:30 - 22:30	181	+	141	=	322	406	161	No
05:00 - 06:00	169	+	121	=	290	17	123	No
21:45 - 22:45	159	+	125	=	284	362	139	No
22:00 - 23:00	153	+	114	=	267	314	122	No
22:15 - 23:15	141		110		251	231	103	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2462

Study Date : 05/23/2024

## 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

17 hours meet 1A minimums.  
16 hours meet 1B minimums.  
Warrant IS 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 109th Ave

#### Minor Road Club West Pkwy

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
17:15 - 18:15	987	+	825	=	1812	662	530	Yes
16:15 - 17:15	887	+	870	=	1757	823	536	Yes
15:15 - 16:15	855	+	822	=	1677	692	465	Yes
18:15 - 19:15	848	+	588	=	1436	758	430	Yes
14:15 - 15:15	716	+	650	=	1366	605	406	Yes
11:15 - 12:15	662	+	650	=	1312	445	432	Yes
12:15 - 13:15	664	+	573	=	1237	537	420	Yes
13:15 - 14:15	700	+	521	=	1221	512	398	Yes
07:15 - 08:15	504	+	703	=	1207	159	477	Yes
10:15 - 11:15	559	+	611	=	1170	357	430	Yes
09:15 - 10:15	505	+	611	=	1116	290	386	Yes
08:15 - 09:15	510	+	604	=	1114	248	384	Yes

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:45 - 17:45	995	+	942	=	1937	755	571	Yes
15:45 - 16:45	868	+	823	=	1691	774	486	Yes
17:45 - 18:45	880	+	700	=	1580	670	480	Yes
14:45 - 15:45	800	+	703	=	1503	659	460	Yes
11:45 - 12:45	656	+	626	=	1282	527	438	Yes
13:45 - 14:45	663	+	601	=	1264	558	398	Yes
10:45 - 11:45	604	+	645	=	1249	399	393	Yes
12:45 - 13:45	708	+	522	=	1230	507	402	Yes
18:45 - 19:45	745	+	484	=	1229	686	315	Yes
07:45 - 08:45	546	+	666	=	1212	191	402	Yes
08:45 - 09:45	532	+	642	=	1174	280	401	Yes
09:45 - 10:45	526	+	566	=	1092	299	423	Yes

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2462

Study Date : 05/23/2024

## 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.

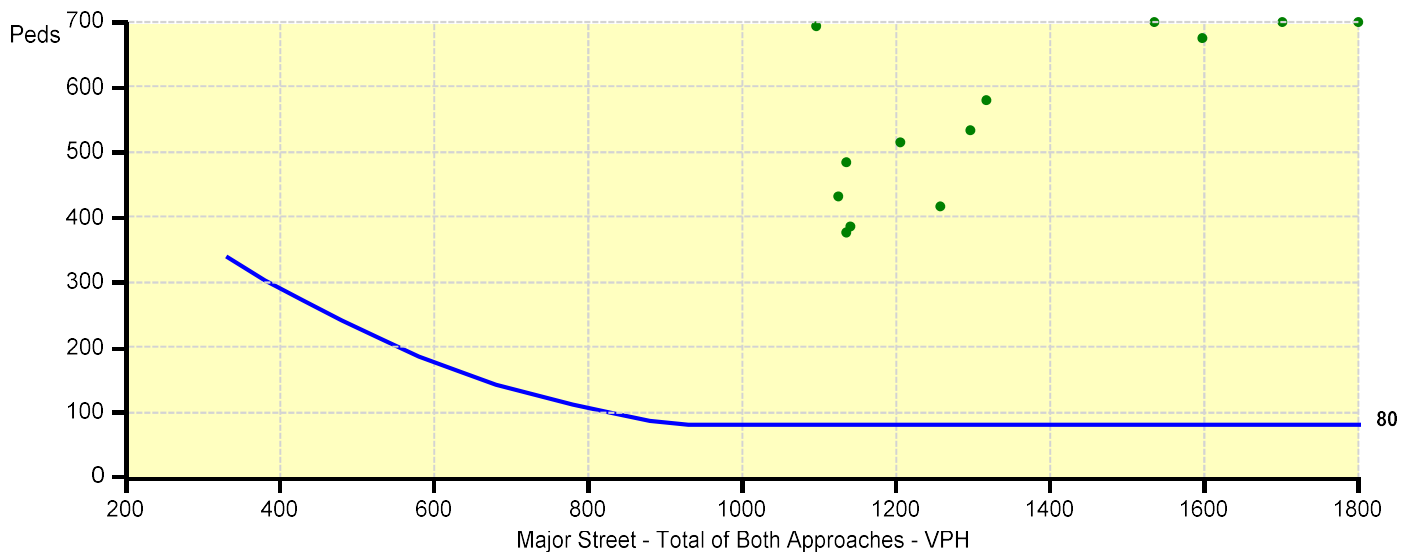
#### Summary

16 one hour periods meet minimums.  
Warrant IS met.

#### Site Data Required

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

Time	Major Road 109th Ave				Total	Minor Road Club West Pkwy		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
17:00 - 18:00	998	+	888	=	1886	715	561	Yes
16:00 - 17:00	881	+	819	=	1700	815	509	Yes
15:00 - 16:00	817	+	780	=	1597	676	456	Yes
18:00 - 19:00	872	+	663	=	1535	729	452	Yes
14:00 - 15:00	698	+	618	=	1316	579	414	Yes
12:00 - 13:00	673	+	623	=	1296	533	441	Yes
11:00 - 12:00	609	+	649	=	1258	416	406	Yes
13:00 - 14:00	702	+	504	=	1206	515	382	Yes
09:00 - 10:00	513	+	627	=	1140	306	385	Yes
08:00 - 09:00	509	+	625	=	1134	205	377	Yes
07:00 - 08:00	465	+	669	=	1134	138	484	Yes
10:00 - 11:00	559		566		1125	317	433	Yes



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2462

Study Date : 05/23/2024

## 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

61 one hour periods meet minimums.  
Warrant IS met.

### Site Data Required

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

Time	Major Road 109th Ave					Minor Road Club West Pkwy		Met?
	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	
16:45 - 17:45	995	+	942	=	1937	755	571	Yes
17:00 - 18:00	998	+	888	=	1886	715	561	Yes
16:30 - 17:30	937	+	917	=	1854	802	562	Yes
17:15 - 18:15	987	+	825	=	1812	662	530	Yes
16:15 - 17:15	887	+	870	=	1757	823	536	Yes
15:30 - 16:30	866	+	842	=	1708	714	466	Yes
16:00 - 17:00	881	+	819	=	1700	815	509	Yes
17:30 - 18:30	938	+	758	=	1696	633	513	Yes
15:45 - 16:45	868	+	823	=	1691	774	486	Yes
15:15 - 16:15	855	+	822	=	1677	692	465	Yes
15:00 - 16:00	817	+	780	=	1597	676	456	Yes
17:45 - 18:45	880	+	700	=	1580	670	480	Yes

