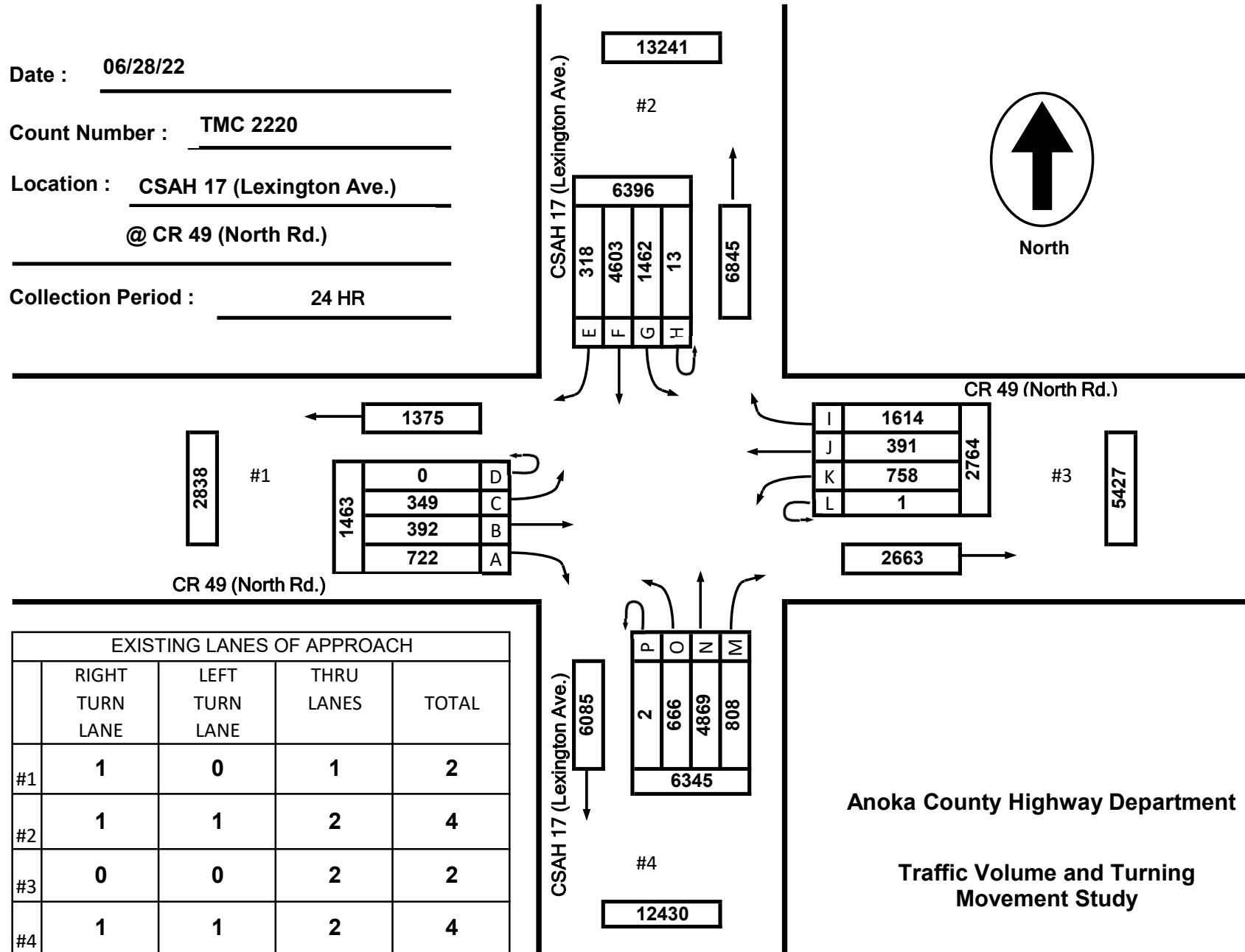


Date : 06/28/22

Count Number : TMC 2220

Location : CSAH 17 (Lexington Ave.)
@ CR 49 (North Rd.)

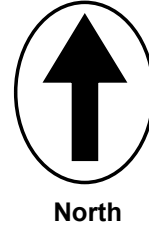
Collection Period : 24 HR



CR 49 (North Rd.)

CR 49 (North Rd.)

CSAH 17 (Lexington Ave.)



North

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

Anoka County Highway Department

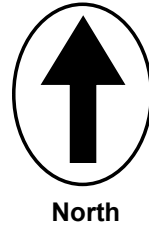
Traffic Volume and Turning Movement Study

Date : 06/28/22

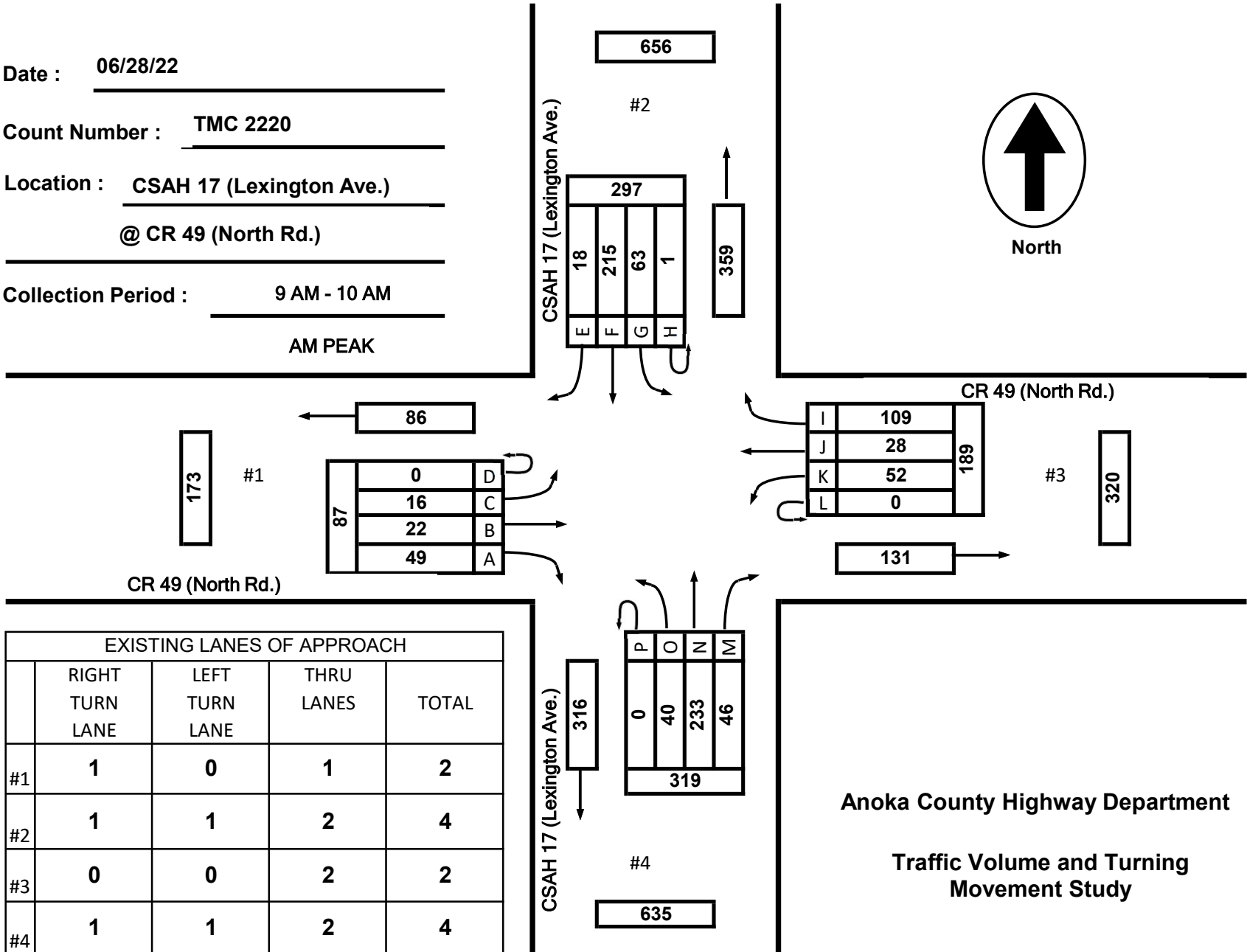
Count Number : TMC 2220

Location : CSAH 17 (Lexington Ave.)
@ CR 49 (North Rd.)

Collection Period : 9 AM - 10 AM
AM PEAK



North



CR 49 (North Rd.)

CSAH 17 (Lexington Ave.)

CR 49 (North Rd.)

CSAH 17 (Lexington Ave.)

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

Anoka County Highway Department

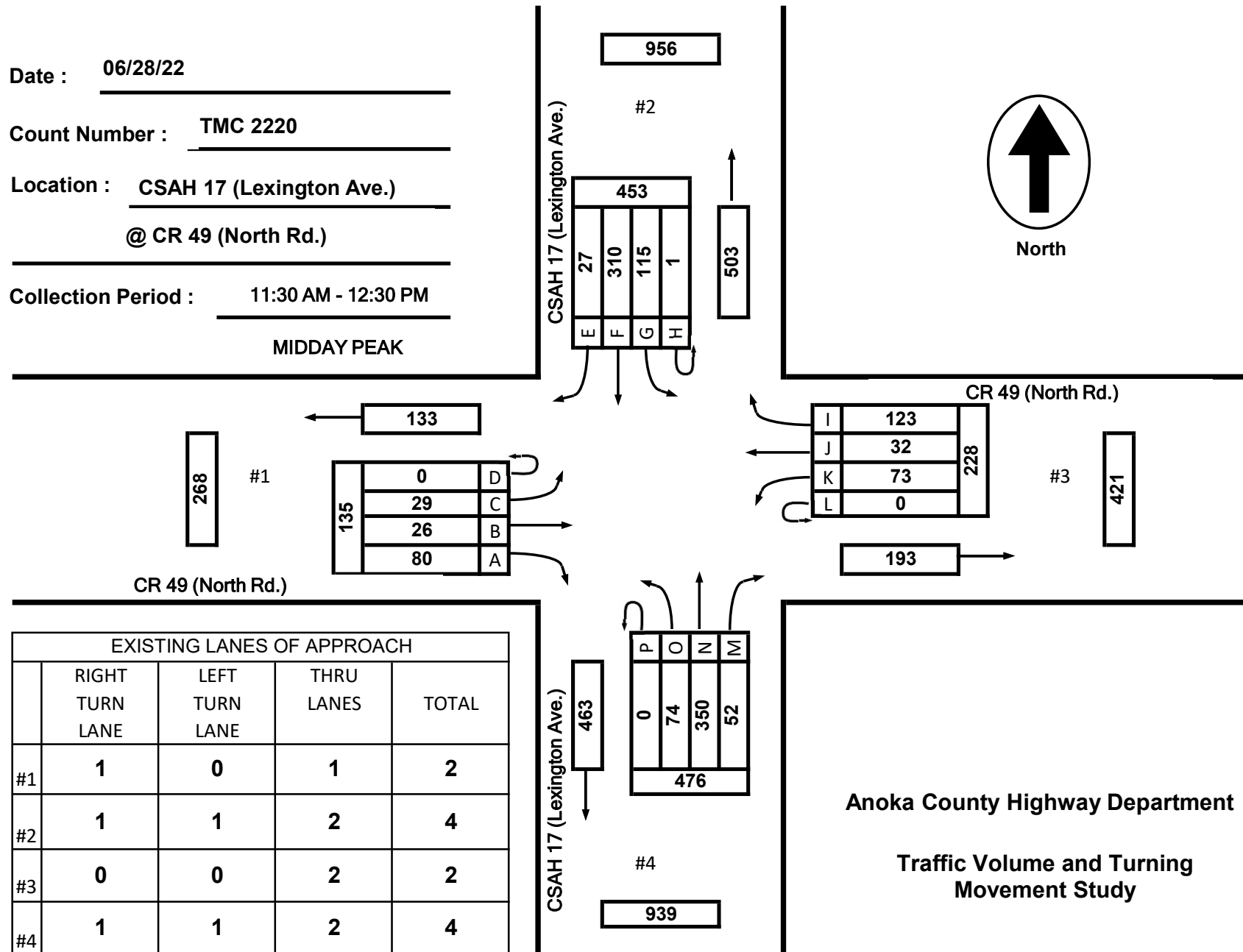
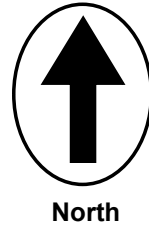
Traffic Volume and Turning Movement Study

Date : 06/28/22

Count Number : TMC 2220

Location : CSAH 17 (Lexington Ave.)
@ CR 49 (North Rd.)

Collection Period : 11:30 AM - 12:30 PM
MIDDAY PEAK



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

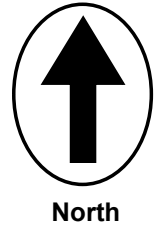
Anoka County Highway Department
Traffic Volume and Turning Movement Study

Date : 06/28/22

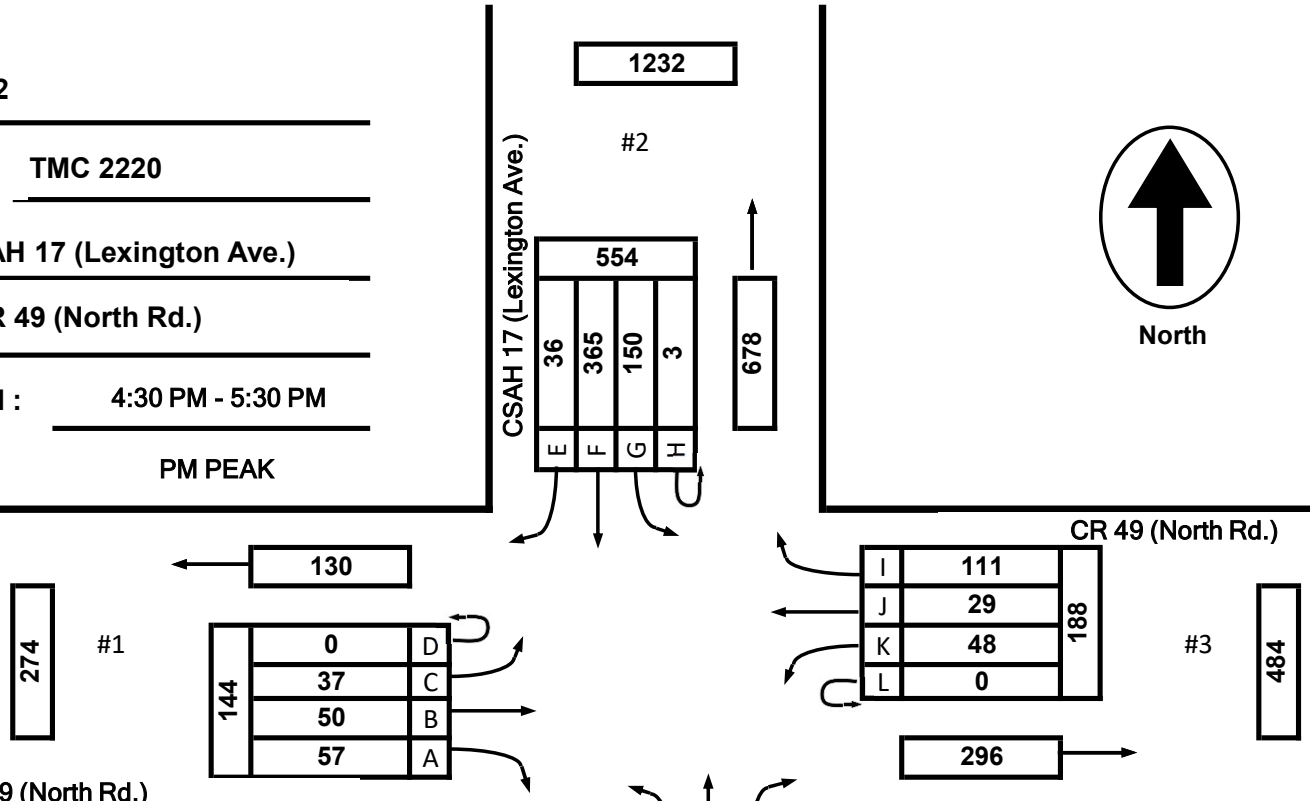
Count Number : TMC 2220

Location : CSAH 17 (Lexington Ave.)
@ CR 49 (North Rd.)

Collection Period : 4:30 PM - 5:30 PM
PM PEAK



North



CR 49 (North Rd.)

CSAH 17 (Lexington Ave.)

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

Anoka County Highway Department
 Traffic Volume and Turning Movement Study



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2220-t-t
 Site Code :
 Start Date : 06/28/2022
 Page No : 1

Weather: Warm & Sunny
 CountCAM 2
 Study Conducted By: Kevin

Groups Printed- Cars + - Trucks

Start Time	CSAH 17 (Lexington Ave) Southbound						CR 49 (North Rd) Westbound						CSAH 17 (Lexington Ave) Northbound						CR 49 (North Rd) Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
00:00	0	3	2	0	0	5	1	0	0	0	0	1	1	5	0	0	0	6	1	0	0	0	0	1	0	13	13
00:15	0	8	6	0	0	14	2	0	0	0	0	2	0	5	0	0	0	5	0	0	0	0	0	0	0	21	21
00:30	0	3	2	0	0	5	1	0	1	0	0	2	1	3	0	0	0	4	0	0	0	0	0	0	0	11	11
00:45	0	4	3	0	0	7	2	0	0	0	0	2	0	3	0	0	0	3	0	0	0	0	0	0	0	12	12
Total	0	18	13	0	0	31	6	0	1	0	0	7	2	16	0	0	0	18	1	0	0	0	0	1	0	57	57
01:00	1	4	0	0	0	5	1	0	2	0	0	3	0	2	0	1	0	3	0	0	0	0	0	0	0	11	11
01:15	0	5	0	0	0	5	0	0	0	0	0	0	1	3	0	0	0	4	0	0	0	0	0	0	0	9	9
01:30	0	0	0	0	0	0	1	0	1	0	0	2	1	0	0	0	0	1	0	0	1	0	0	1	0	4	4
01:45	0	0	3	0	0	3	1	0	0	0	0	1	0	3	0	0	0	3	0	0	0	0	0	0	0	7	7
Total	1	9	3	0	0	13	3	0	3	0	0	6	2	8	0	1	0	11	0	0	1	0	0	1	0	31	31
02:00	0	4	1	0	0	5	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	7	7
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1
02:30	0	2	2	0	0	4	2	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	7	7
02:45	0	2	0	0	0	2	0	0	0	0	0	0	1	1	0	1	0	3	0	0	0	0	0	0	0	5	5
Total	0	8	3	0	0	11	2	0	0	0	0	2	1	4	1	1	0	7	0	0	0	0	0	0	0	20	20
03:00	0	3	2	0	0	5	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	6	6
03:15	0	1	1	0	0	2	3	0	0	0	0	3	0	1	0	0	0	1	0	0	0	0	0	0	0	6	6
03:30	0	0	1	0	0	1	2	1	0	0	0	3	0	3	0	0	0	3	0	0	0	0	0	0	0	7	7
03:45	0	2	2	0	0	4	0	0	1	0	0	1	0	4	0	0	0	4	0	0	0	0	0	0	0	9	9
Total	0	6	6	0	0	12	5	1	1	0	0	7	0	9	0	0	0	9	0	0	0	0	0	0	0	28	28
04:00	0	1	0	0	0	1	3	0	0	0	0	3	0	3	0	0	0	3	0	0	0	0	0	0	0	7	7
04:15	0	7	1	0	0	8	4	0	0	0	0	4	1	5	1	0	0	7	0	0	0	0	0	0	0	19	19
04:30	1	10	0	0	0	11	5	3	2	0	0	10	1	12	3	0	0	16	0	0	0	0	0	0	0	37	37
04:45	1	10	4	0	0	15	4	1	2	0	0	7	0	5	1	0	0	6	0	0	0	0	0	0	0	28	28
Total	2	28	5	0	0	35	16	4	4	0	0	24	2	25	5	0	0	32	0	0	0	0	0	0	0	91	91
05:00	0	9	1	0	0	10	7	0	7	0	0	14	1	11	0	0	0	12	1	0	0	0	0	1	0	37	37
05:15	0	17	1	0	0	18	13	2	5	0	0	20	1	6	0	0	0	7	1	0	0	0	0	1	0	46	46
05:30	1	24	2	0	0	27	9	0	5	0	0	14	4	16	1	0	0	21	1	0	0	0	0	1	0	63	63
05:45	0	38	6	1	0	45	12	1	6	0	0	19	5	21	2	0	0	28	0	0	0	0	0	0	0	92	92
Total	1	88	10	1	0	100	41	3	23	0	0	67	11	54	3	0	0	68	3	0	0	0	0	3	0	238	238



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2220-t-t
 Site Code :
 Start Date : 06/28/2022
 Page No : 2

Weather: Warm & Sunny
 CountCAM 2
 Study Conducted By: Kevin

Groups Printed- Cars + - Trucks

Start Time	CSAH 17 (Lexington Ave) Southbound						CR 49 (North Rd) Westbound						CSAH 17 (Lexington Ave) Northbound						CR 49 (North Rd) Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
06:00	0	34	5	0	0	39	7	1	10	0	0	18	1	24	1	0	0	26	1	0	0	0	0	1	0	84	84
06:15	1	40	8	0	1	49	19	1	6	0	0	26	2	24	2	0	0	28	0	0	1	0	0	1	1	104	105
06:30	2	47	12	0	0	61	27	4	21	0	0	52	10	38	3	0	0	51	2	0	0	0	0	2	0	166	166
06:45	0	54	12	0	0	66	29	1	10	0	0	40	6	43	3	0	0	52	2	0	0	0	0	2	0	160	160
Total	3	175	37	0	1	215	82	7	47	0	0	136	19	129	9	0	0	157	5	0	1	0	0	6	1	514	515
07:00	1	52	16	0	0	69	21	7	13	0	0	41	2	39	3	0	0	44	2	1	0	0	0	3	0	157	157
07:15	1	50	6	0	0	57	28	2	18	0	0	48	9	27	1	0	0	37	6	1	0	0	1	7	1	149	150
07:30	1	52	9	0	0	62	29	3	14	0	0	46	4	47	1	0	0	52	2	0	1	0	0	3	0	163	163
07:45	0	46	11	0	0	57	18	2	14	0	0	34	17	50	9	0	0	76	1	2	2	0	0	5	0	172	172
Total	3	200	42	0	0	245	96	14	59	0	0	169	32	163	14	0	0	209	11	4	3	0	1	18	1	641	642
08:00	0	47	10	0	0	57	15	0	13	0	0	28	9	37	4	0	0	50	3	2	1	0	0	6	0	141	141
08:15	2	49	17	0	0	68	15	3	17	0	1	35	17	44	1	0	1	62	4	2	3	0	1	9	3	174	177
08:30	2	52	24	1	0	79	32	2	18	0	0	52	21	43	8	0	0	72	2	2	2	0	0	6	0	209	209
08:45	1	53	29	1	0	84	39	8	20	1	0	68	14	46	4	0	0	64	1	2	1	0	0	4	0	220	220
Total	5	201	80	2	0	288	101	13	68	1	1	183	61	170	17	0	1	248	10	8	7	0	1	25	3	744	747
09:00	4	44	16	0	0	64	27	8	15	0	0	50	10	59	10	0	0	79	8	3	1	0	0	12	0	205	205
09:15	7	47	20	0	0	74	30	11	16	0	0	57	21	53	11	0	0	85	14	6	4	0	2	24	2	240	242
09:30	3	53	11	0	0	67	34	5	10	0	0	49	9	50	10	0	0	69	11	7	5	0	0	23	0	208	208
09:45	4	71	16	1	0	92	18	4	11	0	0	33	6	71	9	0	0	86	16	6	6	0	0	28	0	239	239
Total	18	215	63	1	0	297	109	28	52	0	0	189	46	233	40	0	0	319	49	22	16	0	2	87	2	892	894
10:00	3	53	16	0	0	72	29	6	6	0	0	41	8	70	15	0	0	93	11	12	6	0	0	29	0	235	235
10:15	7	57	22	0	0	86	26	13	6	0	0	45	20	70	12	0	0	102	7	3	2	0	0	12	0	245	245
10:30	11	58	15	0	0	84	24	8	15	0	0	47	13	68	16	0	0	97	10	1	5	0	0	16	0	244	244
10:45	2	76	23	0	0	101	28	7	4	0	0	39	5	72	15	0	0	92	21	9	9	0	0	39	0	271	271
Total	23	244	76	0	0	343	107	34	31	0	0	172	46	280	58	0	0	384	49	25	22	0	0	96	0	995	995
11:00	6	81	25	0	0	112	20	12	13	0	0	45	11	68	17	0	0	96	10	7	9	0	0	26	0	279	279
11:15	9	73	26	0	0	108	18	9	10	0	0	37	22	92	11	0	0	125	16	13	9	0	0	38	0	308	308
11:30	5	69	25	1	0	100	23	10	23	0	0	56	9	87	17	0	0	113	24	7	6	0	0	37	0	306	306
11:45	5	72	36	0	0	113	28	1	12	0	0	41	15	79	13	0	0	107	18	6	6	0	0	30	0	291	291
Total	25	295	112	1	0	433	89	32	58	0	0	179	57	326	58	0	0	441	68	33	30	0	0	131	0	1184	1184
12:00	12	72	25	0	0	109	49	12	30	0	0	91	17	85	15	0	1	117	19	2	8	0	2	29	3	346	349
12:15	5	97	29	0	0	131	23	9	8	0	0	40	11	99	29	0	0	139	19	11	9	0	0	39	0	349	349
12:30	6	76	20	0	0	102	21	13	9	0	0	43	11	98	9	0	0	118	28	5	10	0	0	43	0	306	306



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2220-t-t
 Site Code :
 Start Date : 06/28/2022
 Page No : 3

Weather: Warm & Sunny
 CountCAM 2
 Study Conducted By: Kevin

Groups Printed- Cars + - Trucks

Start Time	CSAH 17 (Lexington Ave) Southbound						CR 49 (North Rd) Westbound						CSAH 17 (Lexington Ave) Northbound						CR 49 (North Rd) Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
12:45	9	95	22	0	0	126	27	4	9	0	0	40	7	72	15	0	0	94	16	3	9	0	1	28	1	288	289
Total	32	340	96	0	0	468	120	38	56	0	0	214	46	354	68	0	1	468	82	21	36	0	3	139	4	1289	1293
13:00	7	72	20	0	1	99	29	8	7	0	0	44	8	69	22	0	0	99	10	7	10	0	1	27	2	269	271
13:15	7	94	20	0	0	121	28	6	11	0	0	45	12	83	10	0	2	105	17	9	8	0	0	34	2	305	307
13:30	7	72	26	1	0	106	29	1	13	0	0	43	6	85	18	0	0	109	7	10	10	0	0	27	0	285	285
13:45	6	83	22	0	2	111	22	4	9	0	0	35	6	81	12	0	0	99	17	7	9	0	0	33	2	278	280
Total	27	321	88	1	3	437	108	19	40	0	0	167	32	318	62	0	2	412	51	33	37	0	1	121	6	1137	1143
14:00	2	68	24	0	0	94	15	4	9	0	0	28	11	79	13	0	0	103	23	7	9	0	1	39	1	264	265
14:15	5	108	19	0	0	132	24	6	11	0	0	41	6	84	12	0	0	102	12	7	7	0	0	26	0	301	301
14:30	13	70	28	0	0	111	28	10	3	0	0	41	11	97	22	0	0	130	12	10	10	0	0	32	0	314	314
14:45	8	59	16	1	0	84	25	5	7	0	0	37	16	98	16	0	0	130	15	12	15	0	0	42	0	293	293
Total	28	305	87	1	0	421	92	25	30	0	0	147	44	358	63	0	0	465	62	36	41	0	1	139	1	1172	1173
15:00	7	85	28	0	0	120	18	14	14	0	1	46	16	81	13	0	0	110	18	10	6	0	0	34	1	310	311
15:15	1	77	29	0	0	107	26	10	6	0	0	42	10	117	17	0	0	144	9	10	5	0	2	24	2	317	319
15:30	7	94	37	0	0	138	37	6	15	0	0	58	11	116	17	0	0	144	14	11	3	0	1	28	1	368	369
15:45	10	99	34	0	0	143	21	8	10	0	0	39	15	122	13	0	0	150	24	10	9	0	1	43	1	375	376
Total	25	355	128	0	0	508	102	38	45	0	1	185	52	436	60	0	0	548	65	41	23	0	4	129	5	1370	1375
16:00	7	83	39	0	0	129	36	20	12	0	0	68	21	117	15	0	0	153	24	15	10	0	0	49	0	399	399
16:15	9	104	27	1	0	141	26	9	7	0	0	42	27	111	14	0	0	152	12	6	8	0	0	26	0	361	361
16:30	15	87	40	0	0	142	27	9	10	0	0	46	21	136	14	0	0	171	13	13	10	0	0	36	0	395	395
16:45	7	93	30	0	0	130	21	6	12	0	0	39	28	108	13	0	0	149	15	9	10	0	0	34	0	352	352
Total	38	367	136	1	0	542	110	44	41	0	0	195	97	472	56	0	0	625	64	43	38	0	0	145	0	1507	1507
17:00	7	96	39	0	0	142	27	5	16	0	0	48	22	134	18	0	0	174	18	11	8	0	0	37	0	401	401
17:15	7	89	41	3	1	140	36	9	10	0	0	55	25	149	20	0	0	194	11	17	9	0	0	37	1	426	427
17:30	12	78	24	1	0	115	27	7	18	0	0	52	17	98	14	0	0	129	16	11	15	0	0	42	0	338	338
17:45	5	70	33	0	0	108	40	7	11	0	0	58	15	113	10	0	1	138	13	6	6	0	1	25	2	329	331
Total	31	333	137	4	1	505	130	28	55	0	0	213	79	494	62	0	1	635	58	45	38	0	1	141	3	1494	1497
18:00	5	69	19	0	0	93	24	6	10	0	0	40	17	77	8	0	0	102	12	6	3	0	0	21	0	256	256
18:15	8	76	27	1	0	112	24	5	10	0	0	39	14	87	7	0	0	108	7	9	5	0	1	21	1	280	281
18:30	3	74	24	0	0	101	26	12	9	0	0	47	17	89	16	0	0	122	17	11	4	0	1	32	1	302	303
18:45	9	66	18	0	0	93	23	5	8	0	0	36	8	62	12	0	0	82	10	8	8	0	0	26	0	237	237
Total	25	285	88	1	0	399	97	28	37	0	0	162	56	315	43	0	0	414	46	34	20	0	2	100	2	1075	1077



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2220-t-t
 Site Code :
 Start Date : 06/28/2022
 Page No : 4

Weather: Warm & Sunny
 CountCAM 2
 Study Conducted By: Kevin

Groups Printed- Cars + - Trucks

Start Time	CSAH 17 (Lexington Ave) Southbound						CR 49 (North Rd) Westbound						CSAH 17 (Lexington Ave) Northbound						CR 49 (North Rd) Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
19:00	6	63	23	0	0	92	23	5	6	0	0	34	13	68	16	0	0	97	16	4	7	0	2	27	2	250	252
19:15	5	61	28	0	0	94	14	6	4	0	0	24	8	61	9	0	0	78	12	6	5	0	0	23	0	219	219
19:30	3	65	17	0	0	85	16	5	14	0	1	35	8	66	9	0	1	83	21	6	4	0	2	31	4	234	238
19:45	7	64	15	0	0	86	11	8	4	0	0	23	8	66	3	0	0	77	12	8	6	0	0	26	0	212	212
Total	21	253	83	0	0	357	64	24	28	0	1	116	37	261	37	0	1	335	61	24	22	0	4	107	6	915	921
20:00	1	60	17	0	0	78	17	3	8	0	0	28	11	51	6	0	0	68	14	7	5	0	0	26	0	200	200
20:15	3	66	31	0	0	100	10	0	8	0	0	18	12	49	2	0	0	63	9	4	2	0	1	15	1	196	197
20:30	0	51	17	0	0	68	9	1	13	0	0	23	4	50	0	0	0	54	2	3	1	0	0	6	0	151	151
20:45	1	63	9	0	0	73	32	1	10	0	0	43	14	48	1	0	0	63	0	1	1	0	0	2	0	181	181
Total	5	240	74	0	0	319	68	5	39	0	0	112	41	198	9	0	0	248	25	15	9	0	1	49	1	728	729
21:00	0	41	16	0	0	57	16	2	10	0	0	28	9	46	0	0	0	55	2	4	3	0	1	9	1	149	150
21:15	0	41	10	0	0	51	12	2	4	0	0	18	3	36	1	0	0	40	1	1	0	0	0	2	0	111	111
21:30	1	40	17	0	0	58	6	1	4	0	0	11	10	25	0	0	0	35	1	0	1	0	0	2	0	106	106
21:45	0	39	12	0	1	51	5	1	4	0	0	10	2	34	0	0	0	36	2	1	0	0	0	3	1	100	101
Total	1	161	55	0	1	217	39	6	22	0	0	67	24	141	1	0	0	166	6	6	4	0	1	16	2	466	468
22:00	0	41	9	0	0	50	5	0	1	0	0	6	6	19	0	0	0	25	1	1	0	0	1	2	1	83	84
22:15	0	20	7	0	0	27	5	0	6	0	0	11	5	15	0	0	0	20	1	0	0	0	0	1	0	59	59
22:30	2	24	9	0	1	35	7	0	7	0	0	14	2	22	0	0	0	24	1	0	1	0	0	2	1	75	76
22:45	0	19	3	0	0	22	6	0	2	0	0	8	1	17	0	0	1	18	1	0	0	0	1	1	2	49	51
Total	2	104	28	0	1	134	23	0	16	0	0	39	14	73	0	0	1	87	4	1	1	0	2	6	4	266	270
23:00	0	15	1	0	0	16	0	0	1	0	0	1	3	9	0	0	0	12	0	1	0	0	0	1	0	30	30
23:15	1	12	4	0	0	17	1	0	1	0	0	2	1	9	0	0	0	10	1	0	0	0	0	1	0	30	30
23:30	1	18	4	0	0	23	3	0	0	0	0	3	1	7	0	0	0	8	1	0	0	0	1	1	1	35	36
23:45	0	7	3	0	0	10	0	0	0	0	0	0	2	7	0	0	0	9	0	0	0	0	0	0	0	19	19
Total	2	52	12	0	0	66	4	0	2	0	0	6	7	32	0	0	0	39	2	1	0	0	1	3	1	114	115
Grand Total	318	4603	1462	13	7	6396	1614	391	758	1	3	2764	808	4869	666	2	7	6345	722	392	349	0	25	1463	42	16968	17010
Apprch %	5	72	22.9	0.2			58.4	14.1	27.4	0			12.7	76.7	10.5	0			49.4	26.8	23.9	0					
Total %	1.9	27.1	8.6	0.1		37.7	9.5	2.3	4.5	0		16.3	4.8	28.7	3.9	0		37.4	4.3	2.3	2.1	0		8.6	0.2	99.8	
Cars +	312	4470	1415	13		6217	1578	388	746	1		2716	795	4733	661	2		6198	720	390	341	0		1476	0	0	16607
% Cars +	98.1	97.1	96.8	100	100	97.1	97.8	99.2	98.4	100	100	98.2	98.4	97.2	99.2	100	100	97.6	99.7	99.5	97.7	0	100	99.2	0	0	97.6
Trucks	6	133	47	0		186	36	3	12	0		51	13	136	5	0		154	2	2	8	0		12	0	0	403
% Trucks	1.9	2.9	3.2	0	0	2.9	2.2	0.8	1.6	0	0	1.8	1.6	2.8	0.8	0	0	2.4	0.3	0.5	2.3	0	0	0.8	0	0	2.4



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2220-t-t
 Site Code :
 Start Date : 06/28/2022
 Page No : 5

Weather: Warm & Sunny
 CountCAM 2
 Study Conducted By: Kevin

Start Time	CSAH 17 (Lexington Ave) Southbound					CR 49 (North Rd) Westbound					CSAH 17 (Lexington Ave) Northbound					CR 49 (North Rd) Eastbound					Int. Total
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	
Peak Hour Analysis From 00:00 to 09:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 09:00																					
09:00	4	44	16	0	64	27	8	15	0	50	10	59	10	0	79	8	3	1	0	12	205
09:15	7	47	20	0	74	30	11	16	0	57	21	53	11	0	85	14	6	4	0	24	240
09:30	3	53	11	0	67	34	5	10	0	49	9	50	10	0	69	11	7	5	0	23	208
09:45	4	71	16	1	92	18	4	11	0	33	6	71	9	0	86	16	6	6	0	28	239
Total Volume	18	215	63	1	297	109	28	52	0	189	46	233	40	0	319	49	22	16	0	87	892
% App. Total	6.1	72.4	21.2	0.3		57.7	14.8	27.5	0		14.4	73	12.5	0		56.3	25.3	18.4	0		
PHF	.643	.757	.788	.250	.807	.801	.636	.813	.000	.829	.548	.820	.909	.000	.927	.766	.786	.667	.000	.777	.929

Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:30																					
11:30	5	69	25	1	100	23	10	23	0	56	9	87	17	0	113	24	7	6	0	37	306
11:45	5	72	36	0	113	28	1	12	0	41	15	79	13	0	107	18	6	6	0	30	291
12:00	12	72	25	0	109	49	12	30	0	91	17	85	15	0	117	19	2	8	0	29	346
12:15	5	97	29	0	131	23	9	8	0	40	11	99	29	0	139	19	11	9	0	39	349
Total Volume	27	310	115	1	453	123	32	73	0	228	52	350	74	0	476	80	26	29	0	135	1292
% App. Total	6	68.4	25.4	0.2		53.9	14	32	0		10.9	73.5	15.5	0		59.3	19.3	21.5	0		
PHF	.563	.799	.799	.250	.865	.628	.667	.608	.000	.626	.765	.884	.638	.000	.856	.833	.591	.806	.000	.865	.926

Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:30																					
16:30	15	87	40	0	142	27	9	10	0	46	21	136	14	0	171	13	13	10	0	36	395
16:45	7	93	30	0	130	21	6	12	0	39	28	108	13	0	149	15	9	10	0	34	352
17:00	7	96	39	0	142	27	5	16	0	48	22	134	18	0	174	18	11	8	0	37	401
17:15	7	89	41	3	140	36	9	10	0	55	25	149	20	0	194	11	17	9	0	37	426
Total Volume	36	365	150	3	554	111	29	48	0	188	96	527	65	0	688	57	50	37	0	144	1574
% App. Total	6.5	65.9	27.1	0.5		59	15.4	25.5	0		14	76.6	9.4	0		39.6	34.7	25.7	0		
PHF	.600	.951	.915	.250	.975	.771	.806	.750	.000	.855	.857	.884	.813	.000	.887	.792	.735	.925	.000	.973	.924



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2220-t-t
 Site Code :
 Start Date : 06/28/2022
 Page No : 1

Weather: Warm & Sunny
 CountCAM 2
 Study Conducted By: Kevin

Groups Printed- Trucks

Start Time	CSAH 17 (Lexington Ave) Southbound					CR 49 (North Rd) Westbound					CSAH 17 (Lexington Ave) Northbound					CR 49 (North Rd) Eastbound					Int. Total	
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total		
00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
02:30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	2
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
05:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
06:00	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
06:15	0	2	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
06:30	0	1	1	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
06:45	0	3	2	0	5	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	6
Total	0	7	3	0	10	2	0	0	0	2	0	2	0	0	2	0	0	0	0	0	0	14
07:00	0	1	1	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
07:15	0	2	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
07:30	0	1	1	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	5
07:45	0	2	0	0	2	1	0	0	0	1	0	5	0	0	5	0	0	0	0	0	0	8
Total	0	6	2	0	8	3	0	0	0	3	0	8	0	0	8	0	0	0	0	0	0	19
08:00	0	2	2	0	4	0	0	0	0	0	2	5	0	0	7	0	0	0	0	0	0	11
08:15	1	1	1	0	3	1	0	0	0	1	1	5	0	0	6	0	0	0	0	0	0	10
08:30	0	3	2	0	5	2	0	0	0	2	1	2	0	0	3	0	0	0	0	0	0	10
08:45	0	3	1	0	4	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	5
Total	1	9	6	0	16	3	0	0	0	3	4	13	0	0	17	0	0	0	0	0	0	36
09:00	0	2	1	0	3	2	1	0	0	3	0	2	0	0	2	0	1	0	0	0	1	9



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2220-t-t
 Site Code :
 Start Date : 06/28/2022
 Page No : 2

Weather: Warm & Sunny
 CountCAM 2
 Study Conducted By: Kevin

Groups Printed- Trucks

Start Time	CSAH 17 (Lexington Ave) Southbound					CR 49 (North Rd) Westbound					CSAH 17 (Lexington Ave) Northbound					CR 49 (North Rd) Eastbound					Int. Total
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	
09:15	0	3	2	0	5	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	9
09:30	0	3	0	0	3	2	0	0	0	2	0	5	1	0	6	0	0	0	0	0	11
09:45	0	8	0	0	8	0	0	1	0	1	0	3	0	0	3	0	0	0	0	0	12
Total	0	16	3	0	19	4	1	1	0	6	0	14	1	0	15	0	1	0	0	1	41
10:00	0	1	1	0	2	2	0	0	0	2	0	5	0	0	5	0	0	0	0	0	9
10:15	0	4	2	0	6	0	0	1	0	1	0	3	1	0	4	0	0	1	0	1	12
10:30	0	1	2	0	3	1	0	0	0	1	0	4	1	0	5	0	0	0	0	0	9
10:45	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	5
Total	0	8	5	0	13	3	0	1	0	4	0	15	2	0	17	0	0	1	0	1	35
11:00	0	5	2	0	7	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	9
11:15	1	4	1	0	6	1	0	0	0	1	2	4	0	0	6	0	0	0	0	0	13
11:30	0	3	0	0	3	0	1	0	0	1	0	2	0	0	2	0	0	2	0	2	8
11:45	0	3	1	0	4	1	0	0	0	1	0	2	0	0	2	0	0	0	0	0	7
Total	1	15	4	0	20	2	1	0	0	3	2	9	0	0	11	0	0	3	0	3	37
12:00	1	2	1	0	4	1	0	0	0	1	3	2	0	0	5	0	0	0	0	0	10
12:15	0	5	2	0	7	0	0	0	0	0	0	2	0	0	2	0	1	0	0	1	10
12:30	0	4	0	0	4	1	0	0	0	1	0	3	0	0	3	0	0	0	0	0	8
12:45	0	4	2	0	6	0	0	1	0	1	1	3	0	0	4	0	0	0	0	0	11
Total	1	15	5	0	21	2	0	1	0	3	4	10	0	0	14	0	1	0	0	1	39
13:00	0	3	0	0	3	2	0	0	0	2	0	5	0	0	5	0	0	0	0	0	10
13:15	1	3	3	0	7	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	13
13:30	0	4	1	0	5	2	0	1	0	3	0	3	0	0	3	0	0	1	0	1	12
13:45	0	4	2	0	6	0	0	1	0	1	0	2	0	0	2	0	0	0	0	0	9
Total	1	14	6	0	21	4	0	2	0	6	0	15	0	0	15	0	0	2	0	2	44
14:00	0	5	1	0	6	0	0	2	0	2	1	1	0	0	2	0	0	0	0	0	10
14:15	1	4	1	0	6	2	0	1	0	3	0	4	0	0	4	0	0	0	0	0	13
14:30	0	2	2	0	4	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	8
14:45	0	1	0	0	1	1	0	0	0	1	0	6	0	0	6	0	0	0	0	0	8
Total	1	12	4	0	17	3	0	3	0	6	1	14	0	0	15	0	0	1	0	1	39
15:00	0	3	0	0	3	0	0	1	0	1	0	5	0	0	5	0	0	0	0	0	9
15:15	0	2	1	0	3	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	6
15:30	0	6	2	0	8	2	0	0	0	2	0	2	0	0	2	0	0	0	0	0	12
15:45	0	3	1	0	4	1	0	0	0	1	0	2	0	0	2	0	0	0	0	0	7
Total	0	14	4	0	18	3	0	1	0	4	0	12	0	0	12	0	0	0	0	0	34
16:00	0	4	3	0	7	2	0	1	0	3	0	5	1	0	6	0	0	0	0	0	16
16:15	0	1	0	0	1	2	1	0	0	3	0	1	0	0	1	1	0	0	0	1	6
16:30	0	2	1	0	3	0	0	1	0	1	0	2	0	0	2	0	0	0	0	0	6
16:45	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
Total	0	7	4	0	11	4	1	2	0	7	0	11	1	0	12	1	0	0	0	1	31
17:00	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	4
17:15	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
17:30	0	0	0	0	0	1	0	1	0	2	1	1	0	0	2	0	0	0	0	0	4
17:45	0	0	1	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
Total	0	1	1	0	2	1	0	1	0	2	1	9	0	0	10	0	0	0	0	0	14
18:00	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
18:15	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
18:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18:45	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	3	0	0	3	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	5



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2220-t-t
 Site Code :
 Start Date : 06/28/2022
 Page No : 3

Weather: Warm & Sunny
 CountCAM 2
 Study Conducted By: Kevin

Groups Printed- Trucks

Start Time	CSAH 17 (Lexington Ave) Southbound					CR 49 (North Rd) Westbound					CSAH 17 (Lexington Ave) Northbound					CR 49 (North Rd) Eastbound					Int. Total					
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total						
19:00	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	0
19:15	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
19:30	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	0
19:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
20:00	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	0
20:15	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	0
20:30	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	0
20:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:00	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	0
21:15	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
21:30	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
21:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	4
22:00	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	0
22:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
22:30	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	0
22:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
23:00	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	0
23:15	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	0
23:30	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	6	133	47	0	186	36	3	12	0	51	13	136	5	0	154	2	2	8	0	12					403	
Apprch %	3.2	71.5	25.3	0		70.6	5.9	23.5	0		8.4	88.3	3.2	0		16.7	16.7	66.7	0							
Total %	1.5	33	11.7	0	46.2	8.9	0.7	3	0	12.7	3.2	33.7	1.2	0	38.2	0.5	0.5	2	0	3						

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/12/2022

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 17 (Lexington Ave)

Number of Lanes : 2+

Total Approach Volume: 6,345

Southbound: CSAH 17 (Lexington Ave)

Number of Lanes :2+

Total Approach Volume: 6,396

Minor Street Approaches

Eastbound: CR 49 (North Rd)

Number of Lanes :1

Total Approach Volume: 1,463

Westbound: CR 49 (North Rd)

Number of Lanes :1

Total Approach Volume: 2,764

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 15 hours, 8 are needed

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

Required volumes reached for 11 hours, 8 are needed

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

Required 1A volumes reached for 15 hours, 8 are needed

Required 1B volumes reached for 13 hours, 8 are needed

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

Number of hours (12) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (46) 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:

Study Date : 07/12/2022

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

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 = **1**

Volume Requirements

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

Veh/Hr Minor = **105**

Time	Major Road					Minor Road		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
	CSAH 17 (Lexington Ave)					CR 49 (North Rd)		
16:15 - 17:15	646	+	555	=	1201	133	175	Yes
15:15 - 16:15	591	+	517	=	1108	144	207	Yes
17:15 - 18:15	563	+	456	=	1019	125	205	Yes
14:15 - 15:15	472	+	447	=	919	134	165	Yes
12:15 - 13:15	450	+	458	=	908	137	167	Yes
11:15 - 12:15	462	+	430	=	892	134	225	Yes
13:15 - 14:15	416	+	432	=	848	133	151	Yes
18:15 - 19:15	409	+	398	=	807	106	156	Yes
10:15 - 11:15	387	+	383	=	770	93	176	Yes
19:15 - 20:15	306	+	343	=	649	106	110	Yes
09:15 - 10:15	333	+	305	=	638	104	180	Yes
08:15 - 09:15	277	+	295	=	572	31	205	Yes
20:15 - 21:15	235	+	298	=	533	32	112	Yes
07:15 - 08:15	215	+	233	=	448	21	156	Yes
06:15 - 07:15	175	+	245	=	420	8	159	Yes
06:00 - 07:00	157	+	215	=	372	6	136	No
21:15 - 22:15	136	+	210	=	346	9	45	No
05:45 - 06:45	133	+	194	=	327	4	115	No
21:30 - 22:30	116	+	186	=	302	8	38	No
21:45 - 22:45	105	+	163	=	268	8	41	No
05:30 - 06:30	103	+	160	=	263	3	77	No
22:00 - 23:00	87	+	134	=	221	6	39	No
05:15 - 06:15	82	+	129	=	211	3	71	No
22:15 - 23:15	74	+	100	=	174	5	34	No
05:00 - 06:00	68		100		168	3	67	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/12/2022

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

11 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 = **1**

Volume Requirements

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

Veh/Hr Minor = **53**

Time	Major Road					Minor Road		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
	CSAH 17 (Lexington Ave)					CR 49 (North Rd)		
16:15 - 17:15	646	+	555	=	1201	133	175	Yes
15:15 - 16:15	591	+	517	=	1108	144	207	Yes
17:15 - 18:15	563	+	456	=	1019	125	205	Yes
14:15 - 15:15	472	+	447	=	919	134	165	Yes
12:15 - 13:15	450	+	458	=	908	137	167	Yes
11:15 - 12:15	462	+	430	=	892	134	225	Yes
13:15 - 14:15	416	+	432	=	848	133	151	Yes
18:15 - 19:15	409	+	398	=	807	106	156	Yes
10:15 - 11:15	387	+	383	=	770	93	176	Yes
19:15 - 20:15	306	+	343	=	649	106	110	Yes
09:15 - 10:15	333	+	305	=	638	104	180	Yes
09:00 - 10:00	319	+	297	=	616	87	189	No
08:30 - 09:30	300	+	301	=	601	46	227	No
08:45 - 09:45	297	+	289	=	586	63	224	No
08:15 - 09:15	277	+	295	=	572	31	205	No
08:00 - 09:00	248	+	288	=	536	25	183	No
20:15 - 21:15	235	+	298	=	533	32	112	No
07:45 - 08:45	260	+	261	=	521	26	149	No
07:30 - 08:30	240	+	244	=	484	23	143	No
20:30 - 21:30	212	+	249	=	461	19	112	No
07:00 - 08:00	209	+	245	=	454	18	169	No
07:15 - 08:15	215	+	233	=	448	21	156	No
06:45 - 07:45	185	+	254	=	439	15	175	No
06:30 - 07:30	184	+	253	=	437	14	181	No
20:45 - 21:45	193		239		432	15	100	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/12/2022

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

15 hours meet 1A minimums.
13 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 = **1**

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **336 504**

Veh/Hr Minor = **84 42**

Major Road CSAH 17 (Lexington Ave)

Minor Road CR 49 (North Rd)

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:00 - 17:00	625	+	542	=	1167	145	195	Yes
17:00 - 18:00	635	+	505	=	1140	141	213	Yes
15:00 - 16:00	548	+	508	=	1056	129	185	Yes
12:00 - 13:00	468	+	468	=	936	139	214	Yes
14:00 - 15:00	465	+	421	=	886	139	147	Yes
11:00 - 12:00	441	+	433	=	874	131	179	Yes
13:00 - 14:00	412	+	437	=	849	121	167	Yes
18:00 - 19:00	414	+	399	=	813	100	162	Yes
10:00 - 11:00	384	+	343	=	727	96	172	Yes
19:00 - 20:00	335	+	357	=	692	107	116	Yes
09:00 - 10:00	319	+	297	=	616	87	189	Yes
20:00 - 21:00	248		319		567	49	112	Yes

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:45 - 16:45	626	+	555	=	1181	154	195	Yes
16:45 - 17:45	646	+	527	=	1173	150	194	Yes
14:45 - 15:45	528	+	449	=	977	128	183	Yes
11:45 - 12:45	481	+	455	=	936	141	215	Yes
17:45 - 18:45	470	+	414	=	884	99	184	Yes
13:45 - 14:45	434	+	448	=	882	130	145	Yes
12:45 - 13:45	407	+	452	=	859	116	172	Yes
10:45 - 11:45	426	+	421	=	847	140	177	Yes
09:45 - 10:45	378	+	334	=	712	85	166	Yes
18:45 - 19:45	340	+	364	=	704	107	129	Yes
19:45 - 20:45	262	+	332	=	594	73	92	Yes
08:45 - 09:45	297		289		586	63	224	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/12/2022

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.

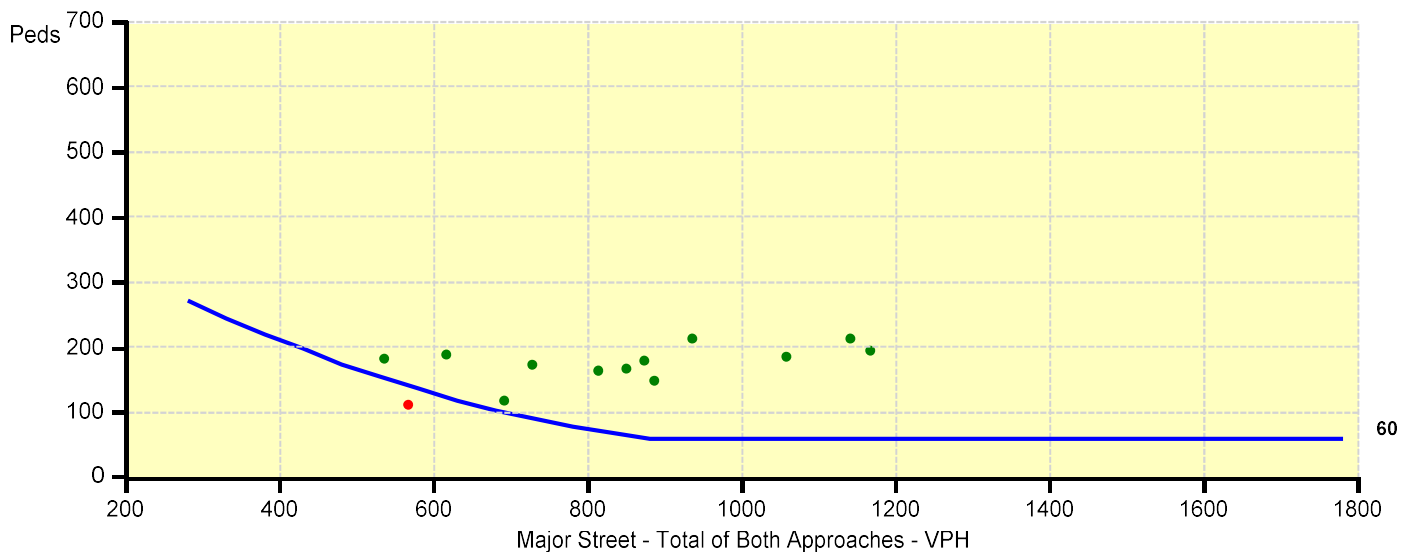
Summary

12 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 = **1**

Time	Major Road CSAH 17 (Lexington Ave)					Minor Road CR 49 (North Rd)		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
16:00 - 17:00	625	+	542	=	1167	145	195	Yes
17:00 - 18:00	635	+	505	=	1140	141	213	Yes
15:00 - 16:00	548	+	508	=	1056	129	185	Yes
12:00 - 13:00	468	+	468	=	936	139	214	Yes
14:00 - 15:00	465	+	421	=	886	139	147	Yes
11:00 - 12:00	441	+	433	=	874	131	179	Yes
13:00 - 14:00	412	+	437	=	849	121	167	Yes
18:00 - 19:00	414	+	399	=	813	100	162	Yes
10:00 - 11:00	384	+	343	=	727	96	172	Yes
19:00 - 20:00	335	+	357	=	692	107	116	Yes
09:00 - 10:00	319	+	297	=	616	87	189	Yes
08:00 - 09:00	248		288		536	25	183	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/12/2022

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

31 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 = **1**

Time	Major Road CSAH 17 (Lexington Ave)					Minor Road CR 49 (North Rd)		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
16:30 - 17:30	688	+	554	=	1242	144	188	Yes
16:15 - 17:15	646	+	555	=	1201	133	175	Yes
15:45 - 16:45	626	+	555	=	1181	154	195	Yes
16:45 - 17:45	646	+	527	=	1173	150	194	Yes
16:00 - 17:00	625	+	542	=	1167	145	195	Yes
15:30 - 16:30	599	+	551	=	1150	146	207	Yes
17:00 - 18:00	635	+	505	=	1140	141	213	Yes
15:15 - 16:15	591	+	517	=	1108	144	207	Yes
15:00 - 16:00	548	+	508	=	1056	129	185	Yes
17:15 - 18:15	563	+	456	=	1019	125	205	Yes
14:45 - 15:45	528	+	449	=	977	128	183	Yes
14:30 - 15:30	514	+	422	=	936	132	166	Yes

