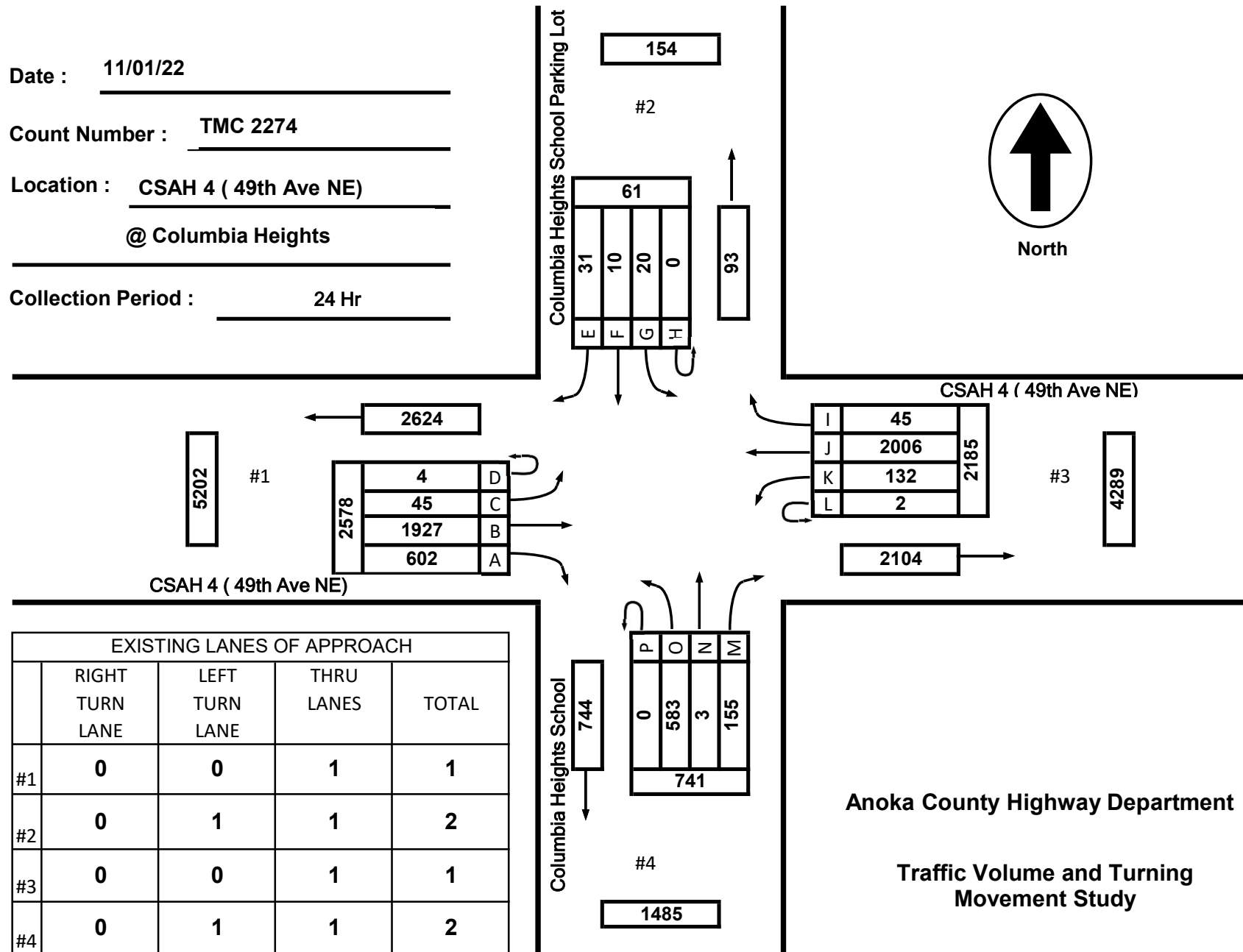


Date : 11/01/22

Count Number : TMC 2274

Location : CSAH 4 (49th Ave NE)
@ Columbia Heights

Collection Period : 24 Hr



Anoka County Highway Department

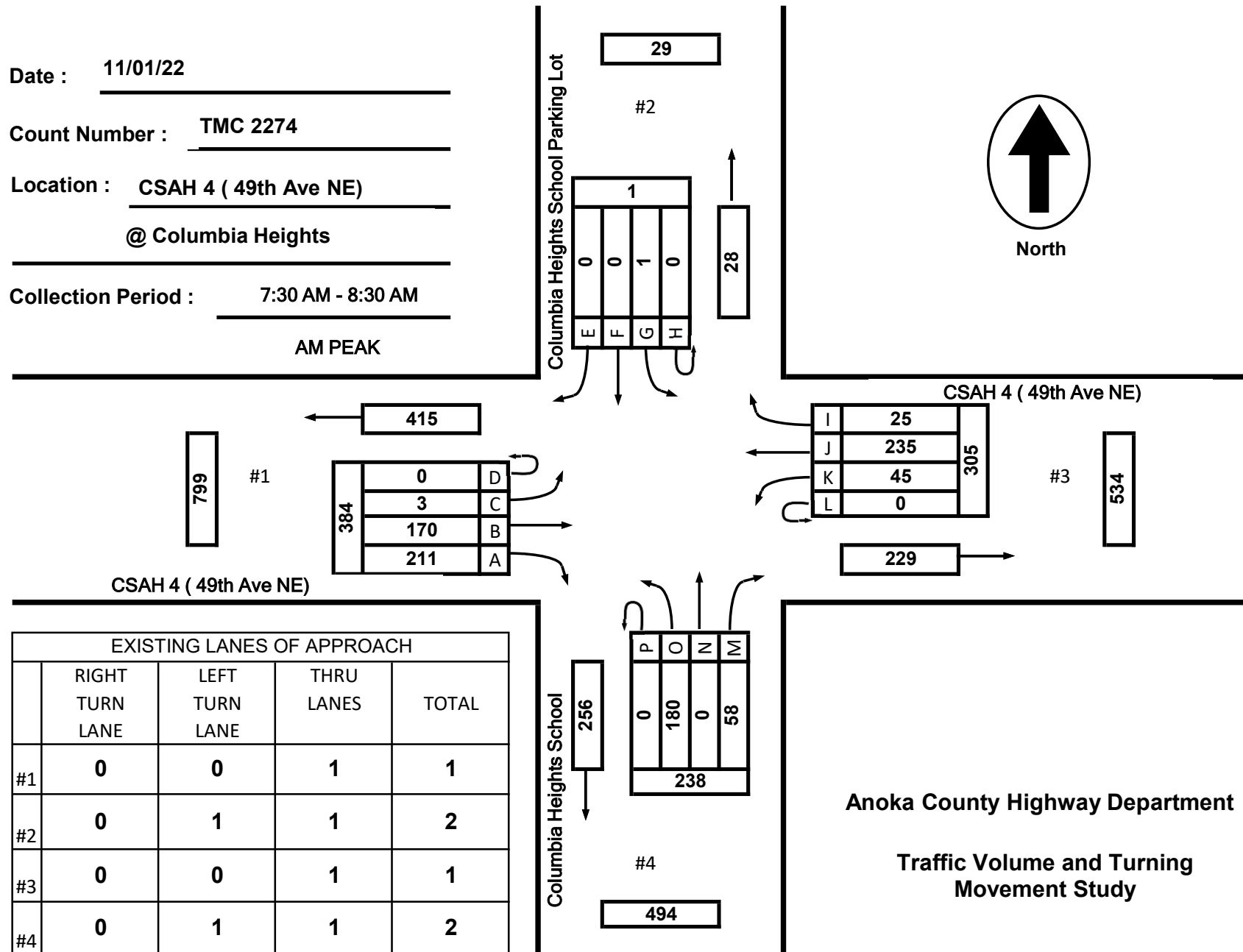
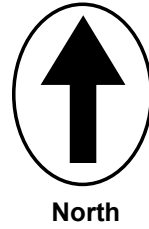
Traffic Volume and Turning Movement Study

Date : 11/01/22

Count Number : TMC 2274

Location : CSAH 4 (49th Ave NE)
@ Columbia Heights

Collection Period : 7:30 AM - 8:30 AM
AM PEAK



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

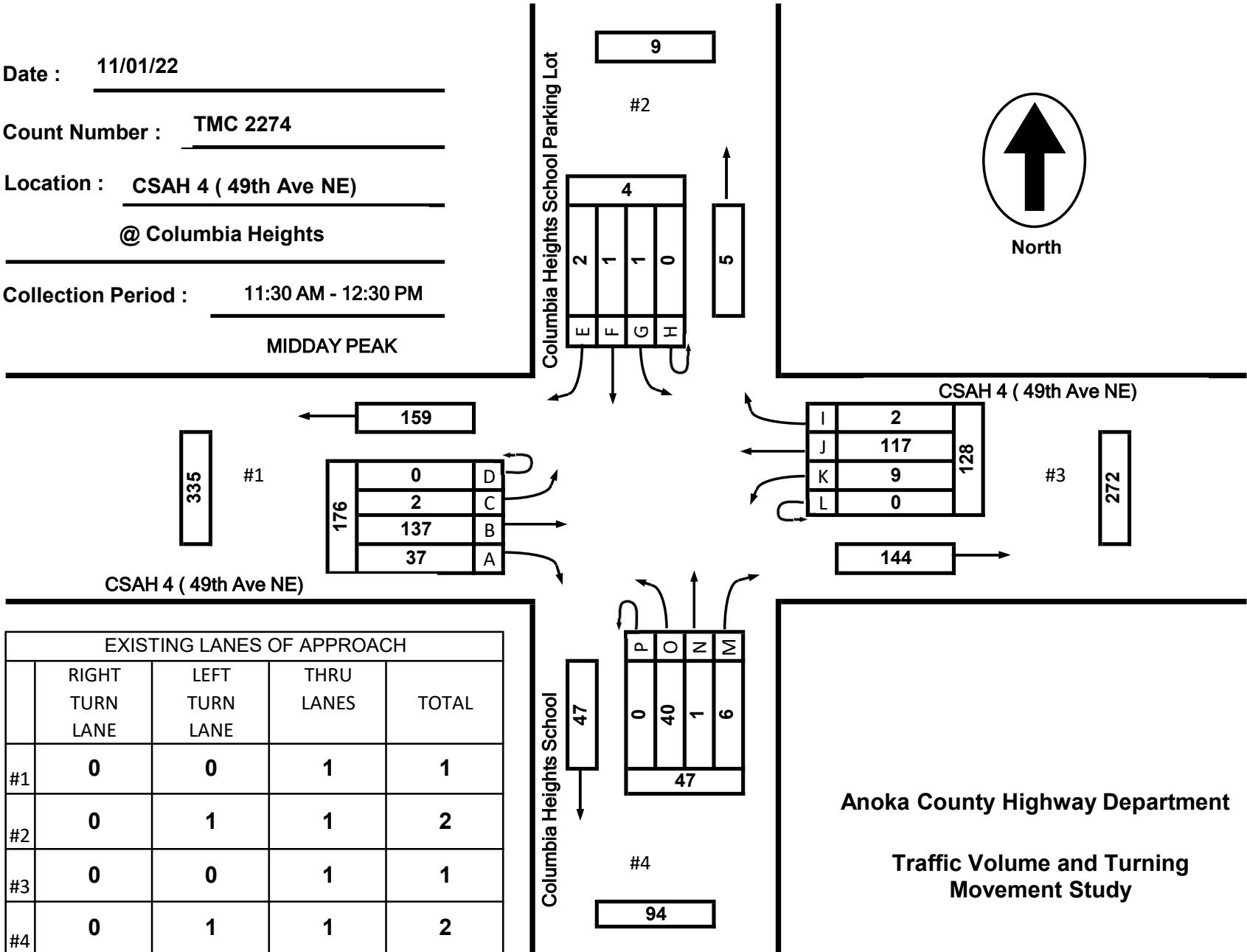
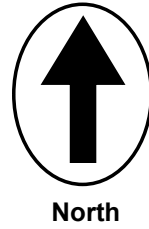
Anoka County Highway Department
Traffic Volume and Turning Movement Study

Date : 11/01/22

Count Number : TMC 2274

Location : CSAH 4 (49th Ave NE)
@ Columbia Heights

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



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

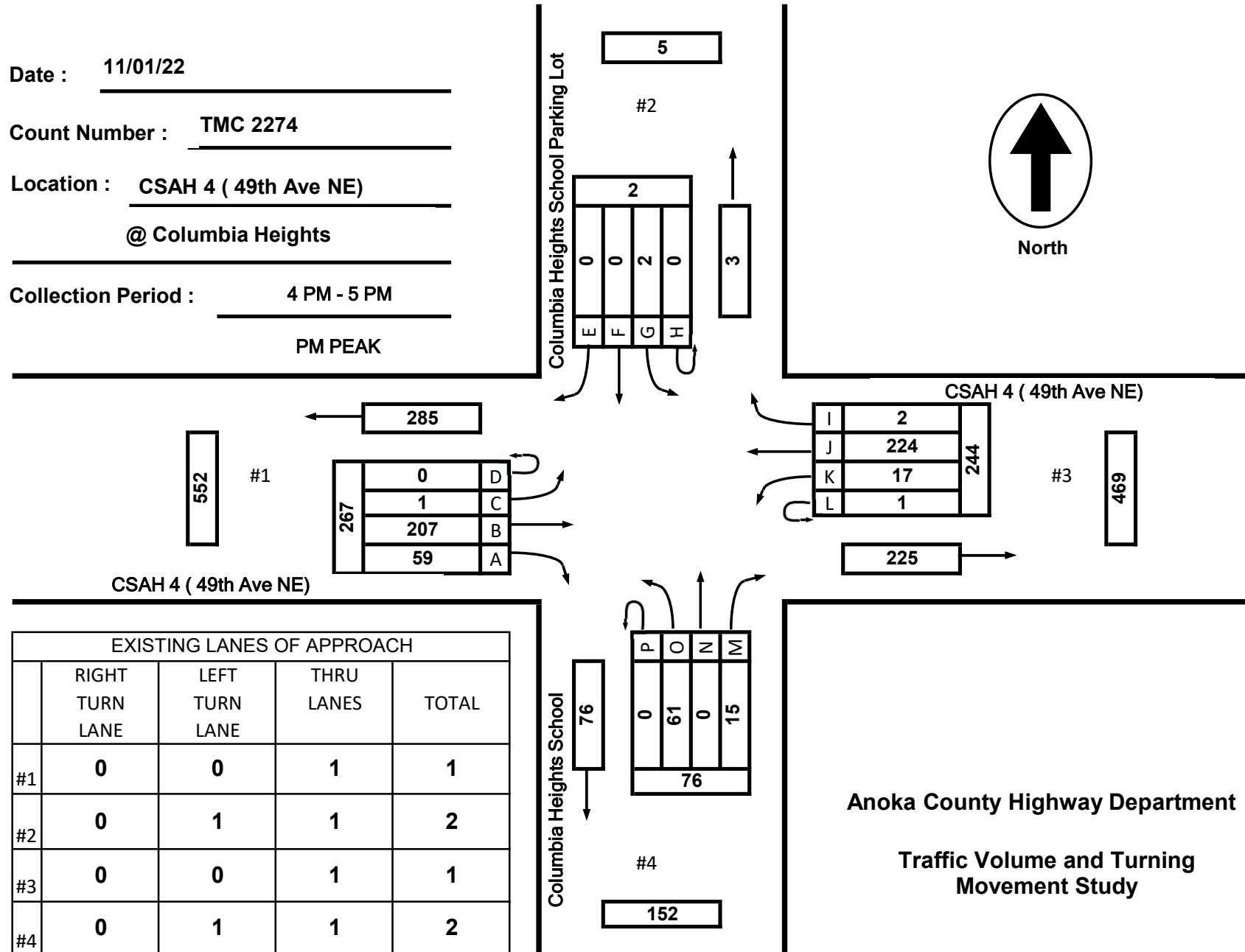
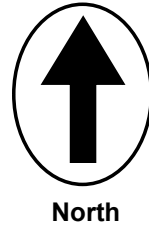
Anoka County Highway Department
 Traffic Volume and Turning Movement Study

Date : 11/01/22

Count Number : TMC 2274

Location : CSAH 4 (49th Ave NE)
@ Columbia Heights

Collection Period : 4 PM - 5 PM
PM PEAK



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

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 2274-t
 Site Code :
 Start Date : 11/01/2022
 Page No : 1

Weather: Cold & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	Columbia Heights School Parking Lot Southbound						CSAH 4 (49th Ave NE) Westbound						Columbia Heights School Entrance Northbound						CSAH 4 (49th Ave NE) 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	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	1	0	0	2	0	0	0	2	1	4	5
00:15	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	4	0	0	0	4	0	6	6
00:30	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0	3	3
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	3	3
Total	0	0	0	0	0	0	0	6	0	0	0	6	0	0	0	1	0	0	10	0	0	0	10	1	16	17	
01:00	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	2	2
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1
01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	2	2
01:45	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	0	4	4
Total	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	5	0	0	0	5	0	9	9	
02:00	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0	3	3
02:15	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	0
02:30	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
02:45	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Total	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	1	0	0	0	1	0	6	6	
03:00	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	0
03:15	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
03:30	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	0	4	4
03:45	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total	0	0	0	0	0	0	0	7	0	0	0	7	0	0	0	0	0	0	1	0	0	0	1	0	8	8	
04:00	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	0
04:15	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0	2	0	5	5
04:30	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0	3	3
04:45	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	3	0	0	0	3	0	7	7
Total	0	0	0	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	6	0	0	0	6	0	15	15	
05:00	0	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0	0	1	0	0	0	1	0	7	7
05:15	0	0	0	0	0	0	1	6	0	0	0	7	0	0	0	0	0	0	0	1	0	0	0	1	0	8	8
05:30	0	0	0	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	0	4	0	0	0	4	0	13	13
05:45	0	0	0	0	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0	3	0	0	0	3	0	11	11
Total	0	0	0	0	0	0	1	29	0	0	0	30	0	0	0	0	0	0	9	0	0	0	9	0	39	39	



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2274-t
 Site Code :
 Start Date : 11/01/2022
 Page No : 2

Weather: Cold & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	Columbia Heights School Parking Lot Southbound						CSAH 4 (49th Ave NE) Westbound						Columbia Heights School Entrance Northbound						CSAH 4 (49th Ave NE) 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	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	3	0	0	0	3	0	8	8
06:15	0	0	0	0	0	0	3	11	0	0	0	14	1	0	0	0	0	1	2	5	0	0	3	7	3	22	25
06:30	0	0	0	0	0	0	0	11	0	0	0	11	0	0	1	0	0	1	1	21	3	0	2	25	2	37	39
06:45	0	0	0	0	0	0	1	21	1	0	0	23	0	0	2	0	0	2	2	17	1	0	4	20	4	45	49
Total	0	0	0	0	0	0	4	48	1	0	0	53	1	0	3	0	0	4	5	46	4	0	9	55	9	112	121
07:00	0	0	0	0	0	0	0	23	0	0	0	23	2	0	4	0	1	6	7	25	4	0	4	36	5	65	70
07:15	0	0	0	0	0	0	4	41	6	0	0	51	3	0	4	0	0	7	8	54	3	0	10	65	10	123	133
07:30	0	0	1	0	1	1	6	82	8	0	0	96	8	0	13	0	0	21	23	74	3	0	11	100	12	218	230
07:45	0	0	0	0	0	0	8	79	14	0	1	101	18	0	36	0	13	54	56	47	0	0	28	103	42	258	300
Total	0	0	1	0	1	1	18	225	28	0	1	271	31	0	57	0	14	88	94	200	10	0	53	304	69	664	733
08:00	0	0	0	0	2	0	8	36	13	0	0	57	17	0	63	0	5	80	68	29	0	0	64	97	71	234	305
08:15	0	0	0	0	3	0	3	38	10	0	0	51	15	0	68	0	2	83	64	20	0	0	53	84	58	218	276
08:30	0	2	0	0	1	2	1	26	1	0	0	28	1	0	17	0	0	18	16	10	0	1	16	27	17	75	92
08:45	0	0	0	0	1	0	0	15	2	0	0	17	0	0	10	0	0	10	8	20	0	0	3	28	4	55	59
Total	0	2	0	0	7	2	12	115	26	0	0	153	33	0	158	0	7	191	156	79	0	1	136	236	150	582	732
09:00	0	0	0	0	1	0	0	14	4	0	0	18	1	0	6	0	0	7	6	15	1	0	2	22	3	47	50
09:15	0	0	0	0	2	0	0	22	2	0	0	24	0	1	5	0	0	6	3	17	2	0	5	22	7	52	59
09:30	1	0	0	0	0	1	0	23	1	0	0	24	2	0	4	0	0	6	6	20	0	0	2	26	2	57	59
09:45	1	1	0	0	1	2	0	20	1	0	0	21	0	0	9	0	2	9	7	15	0	0	2	22	5	54	59
Total	2	1	0	0	4	3	0	79	8	0	0	87	3	1	24	0	2	28	22	67	3	0	11	92	17	210	227
10:00	0	0	0	0	0	0	0	19	0	0	0	19	0	0	3	0	0	3	6	14	1	0	1	21	1	43	44
10:15	2	1	1	0	0	4	0	26	4	0	0	30	1	0	8	0	0	9	8	13	0	0	3	21	3	64	67
10:30	0	0	0	0	0	0	1	16	2	0	0	19	2	0	12	0	0	14	6	16	1	0	4	23	4	56	60
10:45	0	0	0	0	2	0	2	18	1	0	0	21	0	0	4	0	0	4	6	25	1	0	4	32	6	57	63
Total	2	1	1	0	2	4	3	79	7	0	0	89	3	0	27	0	0	30	26	68	3	0	12	97	14	220	234
11:00	0	0	0	0	0	0	0	22	1	0	0	23	4	0	4	0	0	8	5	24	0	0	1	29	1	60	61
11:15	0	0	1	0	0	1	0	26	0	0	0	26	0	1	5	0	0	6	8	17	1	0	4	26	4	59	63
11:30	0	1	1	0	0	2	1	24	4	0	0	29	1	0	21	0	0	22	14	40	0	0	7	54	7	107	114
11:45	0	0	0	0	1	0	0	41	4	0	0	45	2	1	10	0	0	13	10	45	1	0	3	56	4	114	118
Total	0	1	2	0	1	3	1	113	9	0	0	123	7	2	40	0	0	49	37	126	2	0	15	165	16	340	356
12:00	2	0	0	0	0	2	1	27	0	0	0	28	2	0	5	0	0	7	8	25	1	0	2	34	2	71	73
12:15	0	0	0	0	0	0	0	25	1	0	0	26	1	0	4	0	1	5	5	27	0	0	3	32	4	63	67
12:30	0	0	0	0	0	0	0	38	1	0	0	39	1	0	6	0	2	7	7	24	2	0	4	33	6	79	85



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2274-t
 Site Code :
 Start Date : 11/01/2022
 Page No : 3

Weather: Cold & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	Columbia Heights School Parking Lot Southbound						CSAH 4 (49th Ave NE) Westbound						Columbia Heights School Entrance Northbound						CSAH 4 (49th Ave NE) 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	1	0	0	0	0	1	0	26	1	0	0	27	2	0	10	0	0	12	4	39	1	0	2	44	2	84	86
Total	3	0	0	0	0	3	1	116	3	0	0	120	6	0	25	0	3	31	24	115	4	0	11	143	14	297	311
13:00	1	0	0	0	1	1	0	20	1	0	0	21	1	0	3	0	1	4	2	24	0	0	6	26	8	52	60
13:15	1	0	0	0	0	1	0	21	1	0	0	22	0	0	5	0	0	5	7	19	0	0	2	26	2	54	56
13:30	4	0	1	0	0	5	0	25	2	0	0	27	3	0	5	0	2	8	6	32	2	0	16	40	18	80	98
13:45	0	0	0	0	0	0	0	29	2	0	0	31	3	0	6	0	0	9	21	22	0	0	2	43	2	83	85
Total	6	0	1	0	1	7	0	95	6	0	0	101	7	0	19	0	3	26	36	97	2	0	26	135	30	269	299
14:00	0	0	1	0	0	1	1	21	6	1	0	29	3	0	17	0	11	20	23	79	1	0	5	103	16	153	169
14:15	0	0	0	0	0	0	0	68	3	0	0	71	9	0	31	0	5	40	11	57	0	0	5	68	10	179	189
14:30	0	0	1	0	0	1	1	90	1	0	0	92	0	0	5	0	4	5	7	36	0	0	8	43	12	141	153
14:45	0	0	0	0	1	0	0	45	7	0	0	52	3	0	8	0	9	11	18	35	0	0	9	53	19	116	135
Total	0	0	2	0	1	2	2	224	17	1	0	244	15	0	61	0	29	76	59	207	1	0	27	267	57	589	646
15:00	0	0	0	0	8	0	0	40	0	0	0	40	9	0	25	0	6	34	19	38	0	0	78	57	92	131	223
15:15	2	0	0	0	0	2	0	48	6	0	0	54	6	0	22	0	2	28	22	47	0	0	12	69	14	153	167
15:30	4	2	0	0	0	6	0	54	2	0	0	56	2	0	15	0	10	17	14	43	1	0	7	58	17	137	154
15:45	2	0	2	0	0	4	1	38	2	0	0	41	3	0	7	0	0	10	7	38	2	0	8	47	8	102	110
Total	8	2	2	0	8	12	1	180	10	0	0	191	20	0	69	0	18	89	62	166	3	0	105	231	131	523	654
16:00	3	1	0	0	1	4	0	52	2	1	0	55	2	0	4	0	0	6	4	41	2	0	5	47	6	112	118
16:15	0	0	1	0	1	1	1	24	0	0	0	25	2	0	13	0	3	15	12	36	4	0	6	52	10	93	103
16:30	0	0	1	0	0	1	0	43	1	0	0	44	2	0	10	0	3	12	7	46	0	0	5	53	8	110	118
16:45	1	1	2	0	1	4	0	36	0	0	0	36	1	0	7	0	0	8	11	45	0	0	4	56	5	104	109
Total	4	2	4	0	3	10	1	155	3	1	0	160	7	0	34	0	6	41	34	168	6	0	20	208	29	419	448
17:00	0	0	1	0	3	1	0	44	2	0	0	46	1	0	7	0	0	8	6	51	0	0	1	57	4	112	116
17:15	1	0	4	0	1	5	0	57	5	0	0	62	8	0	14	0	1	22	16	46	1	1	10	64	12	153	165
17:30	3	0	2	0	2	5	0	41	3	0	0	44	2	0	13	0	6	15	11	41	2	0	6	54	14	118	132
17:45	0	0	0	0	1	0	0	45	0	0	0	45	6	0	19	0	4	25	9	38	1	0	4	48	9	118	127
Total	4	0	7	0	7	11	0	187	10	0	0	197	17	0	53	0	11	70	42	176	4	1	21	223	39	501	540
18:00	0	1	0	0	0	1	0	41	2	0	0	43	2	0	5	0	1	7	3	36	0	1	1	40	2	91	93
18:15	2	0	0	0	0	2	0	43	0	0	0	43	0	0	4	0	2	4	1	46	0	0	2	47	4	96	100
18:30	0	0	0	0	0	0	0	30	1	0	0	31	1	0	0	0	2	1	0	29	0	0	0	29	2	61	63
18:45	0	0	0	0	0	0	0	15	0	0	0	15	1	0	0	0	0	1	0	23	0	0	0	23	0	39	39
Total	2	1	0	0	0	3	0	129	3	0	0	132	4	0	9	0	5	13	4	134	0	1	3	139	8	287	295



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2274-t
 Site Code :
 Start Date : 11/01/2022
 Page No : 4

Weather: Cold & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	Columbia Heights School Parking Lot Southbound						CSAH 4 (49th Ave NE) Westbound						Columbia Heights School Entrance Northbound						CSAH 4 (49th Ave NE) 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	0	0	0	0	0	0	0	28	0	0	0	0	28	0	0	1	0	0	1	0	16	1	0	0	17	0	46	46
19:15	0	0	0	0	0	0	0	13	0	0	0	0	13	0	0	0	0	0	0	0	19	0	0	0	19	0	32	32
19:30	0	0	0	0	0	0	1	13	0	0	0	0	14	0	0	0	0	0	0	0	25	0	0	0	25	0	39	39
19:45	0	0	0	0	0	0	0	20	0	0	0	0	20	0	0	0	0	0	0	0	24	1	1	0	26	0	46	46
Total	0	0	0	0	0	0	1	74	0	0	0	0	75	0	0	1	0	0	1	0	84	2	1	0	87	0	163	163
20:00	0	0	0	0	0	0	0	10	0	0	0	0	10	0	0	1	0	0	1	0	23	1	0	0	24	0	35	35
20:15	0	0	0	0	0	0	0	12	0	0	0	0	12	0	0	1	0	0	1	1	14	0	0	0	15	0	28	28
20:30	0	0	0	0	0	0	0	16	0	0	0	0	16	0	0	0	0	0	0	0	12	0	0	0	12	0	28	28
20:45	0	0	0	0	0	0	0	9	0	0	0	0	9	0	0	1	0	0	1	0	18	0	0	0	18	0	28	28
Total	0	0	0	0	0	0	0	47	0	0	0	0	47	0	0	3	0	0	3	1	67	1	0	0	69	0	119	119
21:00	0	0	0	0	0	0	0	5	0	0	0	0	5	0	0	0	0	0	0	0	11	0	0	0	11	0	16	16
21:15	0	0	0	0	0	0	0	8	1	0	0	0	9	1	0	0	0	0	1	0	8	0	0	0	8	0	18	18
21:30	0	0	0	0	0	0	0	7	0	0	0	0	7	0	0	0	0	0	0	0	10	0	0	0	10	0	17	17
21:45	0	0	0	0	0	0	0	10	0	0	0	0	10	0	0	0	0	1	0	0	14	0	0	0	14	1	24	25
Total	0	0	0	0	0	0	0	30	1	0	0	0	31	1	0	0	0	1	1	0	43	0	0	0	43	1	75	76
22:00	0	0	0	0	0	0	0	7	0	0	0	0	7	0	0	0	0	0	0	0	11	0	0	0	11	0	18	18
22:15	0	0	0	0	0	0	0	15	0	0	0	0	15	0	0	0	0	0	0	0	4	0	0	1	4	1	19	20
22:30	0	0	0	0	0	0	0	4	0	0	0	0	4	0	0	0	0	0	0	0	17	0	0	0	17	0	21	21
22:45	0	0	0	0	0	0	0	4	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	4	0	8	8
Total	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0	0	0	0	0	0	36	0	0	1	36	1	66	67
23:00	0	0	0	0	0	0	0	4	0	0	0	0	4	0	0	0	0	0	0	0	8	0	0	0	8	0	12	12
23:15	0	0	0	0	0	0	0	8	0	0	0	0	8	0	0	0	0	0	0	0	4	0	0	0	4	0	12	12
23:30	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	4	0	0	0	4	0	7	7
23:45	0	0	0	0	0	0	0	5	0	0	0	0	5	0	0	0	0	1	0	0	0	0	0	0	0	1	5	6
Total	0	0	0	0	0	0	0	20	0	0	0	0	20	0	0	0	0	1	0	0	16	0	0	0	16	1	36	37
Grand Total	31	10	20	0	35	61	45	2006	132	2	1	2185	155	3	583	0	101	741	602	1927	45	4	450	2578	587	5565	6152	
Apprch %	50.8	16.4	32.8	0			2.1	91.8	6	0.1			20.9	0.4	78.7	0			23.4	74.7	1.7	0.2						
Total %	0.6	0.2	0.4	0		1.1	0.8	36	2.4	0		39.3	2.8	0.1	10.5	0		13.3	10.8	34.6	0.8	0.1		46.3	9.5	90.5		
Cars +	30	10	20	0		95	45	1951	129	2		2128	148	3	559	0		811	574	1878	43	4		2949	0	0	5983	
% Cars +	96.8	100	100	0	100	99	100	97.3	97.7	100	100	97.3	95.5	100	95.9	0	100	96.3	95.3	97.5	95.6	100	100	97.4	0	0	97.3	
Trucks	1	0	0	0		1	0	55	3	0		58	7	0	24	0		31	28	49	2	0		79	0	0	169	
% Trucks	3.2	0	0	0	0	1	0	2.7	2.3	0	0	2.7	4.5	0	4.1	0	0	3.7	4.7	2.5	4.4	0	0	2.6	0	0	2.7	



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2274-t
 Site Code :
 Start Date : 11/01/2022
 Page No : 5

Weather: Cold & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Start Time	Columbia Heights School Parking Lot Southbound					CSAH 4 (49th Ave NE) Westbound					Columbia Heights School Entrance Northbound					CSAH 4 (49th Ave NE) 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 07:30																					
07:30	0	0	1	0	1	6	82	8	0	96	8	0	13	0	21	23	74	3	0	100	218
07:45	0	0	0	0	0	8	79	14	0	101	18	0	36	0	54	56	47	0	0	103	258
08:00	0	0	0	0	0	8	36	13	0	57	17	0	63	0	80	68	29	0	0	97	234
08:15	0	0	0	0	0	3	38	10	0	51	15	0	68	0	83	64	20	0	0	84	218
Total Volume	0	0	1	0	1	25	235	45	0	305	58	0	180	0	238	211	170	3	0	384	928
% App. Total	0	0	100	0		8.2	77	14.8	0		24.4	0	75.6	0		54.9	44.3	0.8	0		
PHF	.000	.000	.250	.000	.250	.781	.716	.804	.000	.755	.806	.000	.662	.000	.717	.776	.574	.250	.000	.932	.899

Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:30																					
11:30	0	1	1	0	2	1	24	4	0	29	1	0	21	0	22	14	40	0	0	54	107
11:45	0	0	0	0	0	0	41	4	0	45	2	1	10	0	13	10	45	1	0	56	114
12:00	2	0	0	0	2	1	27	0	0	28	2	0	5	0	7	8	25	1	0	34	71
12:15	0	0	0	0	0	0	25	1	0	26	1	0	4	0	5	5	27	0	0	32	63
Total Volume	2	1	1	0	4	2	117	9	0	128	6	1	40	0	47	37	137	2	0	176	355
% App. Total	50	25	25	0		1.6	91.4	7	0		12.8	2.1	85.1	0		21	77.8	1.1	0		
PHF	.250	.250	.250	.000	.500	.500	.713	.563	.000	.711	.750	.250	.476	.000	.534	.661	.761	.500	.000	.786	.779

Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 14:00																					
14:00	0	0	1	0	1	1	21	6	1	29	3	0	17	0	20	23	79	1	0	103	153
14:15	0	0	0	0	0	0	68	3	0	71	9	0	31	0	40	11	57	0	0	68	179
14:30	0	0	1	0	1	1	90	1	0	92	0	0	5	0	5	7	36	0	0	43	141
14:45	0	0	0	0	0	0	45	7	0	52	3	0	8	0	11	18	35	0	0	53	116
Total Volume	0	0	2	0	2	2	224	17	1	244	15	0	61	0	76	59	207	1	0	267	589
% App. Total	0	0	100	0		0.8	91.8	7	0.4		19.7	0	80.3	0		22.1	77.5	0.4	0		
PHF	.000	.000	.500	.000	.500	.500	.622	.607	.250	.663	.417	.000	.492	.000	.475	.641	.655	.250	.000	.648	.823



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2274-t
 Site Code :
 Start Date : 11/01/2022
 Page No : 1

Weather: Cold & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Trucks

Start Time	Columbia Heights School Parking Lot Southbound					CSAH 4 (49th Ave NE) Westbound					Columbia Heights School Entrance Northbound					CSAH 4 (49th Ave NE) 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0
05:45	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
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
06:30	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	2	0	0	0	2	4
06:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	2
Total	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	1	3	0	0	0	4	7
07:00	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
07:15	0	0	0	0	0	0	6	0	0	6	1	0	0	0	1	1	10	0	0	11	18	
07:30	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
07:45	0	0	0	0	0	0	1	1	0	2	2	0	2	0	4	4	3	0	0	7	13	
Total	0	0	0	0	0	0	12	1	0	13	3	0	2	0	5	5	13	0	0	18	36	
08:00	0	0	0	0	0	0	1	1	0	2	1	0	1	0	2	1	3	0	0	4	8	
08:15	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	1	3	0	0	4	6	
08:30	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	1	0	0	1	3	
08:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	2	
Total	0	0	0	0	0	0	4	1	0	5	1	0	3	0	4	3	7	0	0	10	19	



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2274-t
 Site Code :
 Start Date : 11/01/2022
 Page No : 3

Weather: Cold & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Trucks

Start Time	Columbia Heights School Parking Lot Southbound					CSAH 4 (49th Ave NE) Westbound					Columbia Heights School Entrance Northbound					CSAH 4 (49th Ave NE) 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		
18:45	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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
19:00	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:30	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
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20:00	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
20:30	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
Total	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
21:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:45	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
22:00	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	0	0	0	0	0	0	0
22:30	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
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:00	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
23:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:45	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
Grand Total	1	0	0	0	1	0	55	3	0	58	7	0	24	0	31	28	49	2	0	79	169	
Apprch %	100	0	0	0		0	94.8	5.2	0		22.6	0	77.4	0		35.4	62	2.5	0			
Total %	0.6	0	0	0	0.6	0	32.5	1.8	0	34.3	4.1	0	14.2	0	18.3	16.6	29	1.2	0	46.7		

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 11/01/2022

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 4 (49th Ave NE)

Number of Lanes : 1

Total Approach Volume: 2,578

Westbound: CSAH 4 (49th Ave NE)

Number of Lanes : 1

Total Approach Volume: 2,185

Minor Street Approaches

Northbound: Columbia Heights School Entrance

Number of Lanes : 1

Total Approach Volume: 741

Southbound: Columbia Heights School Parking Lot

Number of Lanes : 1

Total Approach Volume: 61

Warrant Summary (Urban Values Apply)

Warrant 1 - Eight Hour Vehicular Volumes.....Not Satisfied

Warrant 1A - Minimum Vehicular Volume.....Not Satisfied

Required volumes reached for 1 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 1 hours, 8 are needed

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

Warrant 2 - Four Hour Volumes.....Not Satisfied

Number of hours (1) volumes exceed minimum < minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (2) volumes exceed minimum >= required (1). 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 : 11/01/2022

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

Only 1 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 EB	+	Major WB	=		Minor NB	Minor SB	
	CSAH 4 (49th Ave NE)					Columbia Heights School Entrance		
07:15 - 08:15	365	+	305	=	670	162	1	Yes
07:00 - 08:00	304	+	271	=	575	88	1	No
14:00 - 15:00	267	+	244	=	511	76	2	No
13:45 - 14:45	257	+	223	=	480	74	2	No
14:15 - 15:15	221	+	255	=	476	90	1	No
14:30 - 15:30	222	+	238	=	460	78	3	No
14:45 - 15:45	237	+	202	=	439	90	8	No
15:15 - 16:15	221	+	206	=	427	61	16	No
15:00 - 16:00	231	+	191	=	422	89	12	No
17:00 - 18:00	223	+	197	=	420	70	11	No
16:45 - 17:45	231	+	188	=	419	53	15	No
16:30 - 17:30	230	+	188	=	418	50	11	No
06:45 - 07:45	221	+	193	=	414	36	1	No
13:30 - 14:30	254	+	158	=	412	77	6	No
17:15 - 18:15	206	+	194	=	400	69	11	No
15:30 - 16:30	204	+	177	=	381	48	15	No
16:15 - 17:15	218	+	151	=	369	43	7	No
16:00 - 17:00	208	+	160	=	368	41	10	No
15:45 - 16:45	199	+	165	=	364	43	10	No
17:30 - 18:30	189	+	175	=	364	51	8	No
17:45 - 18:45	164	+	162	=	326	37	3	No
13:15 - 14:15	212	+	109	=	321	42	7	No
11:30 - 12:30	176	+	128	=	304	47	4	No
11:15 - 12:15	170	+	128	=	298	48	5	No
11:45 - 12:45	155		138		293	32	2	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 11/01/2022

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

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 EB	+	Major WB	=		Minor NB	Minor SB		
	CSAH 4 (49th Ave NE)					Columbia Heights School Entrance			
07:30 - 08:30	384	+	305	=	689	238	1	No	
07:15 - 08:15	365	+	305	=	670	162	1	No	
07:00 - 08:00	304	+	271	=	575	88	1	No	
07:45 - 08:45	311	+	237	=	548	235	2	No	
14:00 - 15:00	267	+	244	=	511	76	2	No	
13:45 - 14:45	257	+	223	=	480	74	2	No	
14:15 - 15:15	221	+	255	=	476	90	1	No	
14:30 - 15:30	222	+	238	=	460	78	3	No	
14:45 - 15:45	237	+	202	=	439	90	8	No	
15:15 - 16:15	221	+	206	=	427	61	16	No	
15:00 - 16:00	231	+	191	=	422	89	12	No	
17:00 - 18:00	223	+	197	=	420	70	11	No	
16:45 - 17:45	231	+	188	=	419	53	15	No	
16:30 - 17:30	230	+	188	=	418	50	11	No	
06:45 - 07:45	221	+	193	=	414	36	1	No	
13:30 - 14:30	254	+	158	=	412	77	6	No	
17:15 - 18:15	206	+	194	=	400	69	11	No	
08:00 - 09:00	236	+	153	=	389	191	2	No	
15:30 - 16:30	204	+	177	=	381	48	15	No	
16:15 - 17:15	218	+	151	=	369	43	7	No	
16:00 - 17:00	208	+	160	=	368	41	10	No	
15:45 - 16:45	199	+	165	=	364	43	10	No	
17:30 - 18:30	189	+	175	=	364	51	8	No	
17:45 - 18:45	164	+	162	=	326	37	3	No	
13:15 - 14:15	212		109		321	42	7	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 11/01/2022

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

Only 1 hours meet 1A minimums.
Only 1 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**

Time	Major Road				Total	Minor Road		Met1A?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	CSAH 4 (49th Ave NE)					Columbia Heights School Entrance		
07:15 - 08:15	365	+	305	=	670	162	1	Yes
07:00 - 08:00	304	+	271	=	575	88	1	No
14:00 - 15:00	267	+	244	=	511	76	2	No
13:45 - 14:45	257	+	223	=	480	74	2	No
14:15 - 15:15	221	+	255	=	476	90	1	No
14:30 - 15:30	222	+	238	=	460	78	3	No
14:45 - 15:45	237	+	202	=	439	90	8	No
15:15 - 16:15	221	+	206	=	427	61	16	No
15:00 - 16:00	231	+	191	=	422	89	12	No
17:00 - 18:00	223	+	197	=	420	70	11	No
16:45 - 17:45	231	+	188	=	419	53	15	No
16:30 - 17:30	230		188		418	50	11	No

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
07:15 - 08:15	365	+	305	=	670	162	1	Yes
07:00 - 08:00	304	+	271	=	575	88	1	No
14:00 - 15:00	267	+	244	=	511	76	2	No
13:45 - 14:45	257	+	223	=	480	74	2	No
14:15 - 15:15	221	+	255	=	476	90	1	No
14:30 - 15:30	222	+	238	=	460	78	3	No
14:45 - 15:45	237	+	202	=	439	90	8	No
15:15 - 16:15	221	+	206	=	427	61	16	No
15:00 - 16:00	231	+	191	=	422	89	12	No
17:00 - 18:00	223	+	197	=	420	70	11	No
16:45 - 17:45	231	+	188	=	419	53	15	No
16:30 - 17:30	230		188		418	50	11	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 11/01/2022

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.

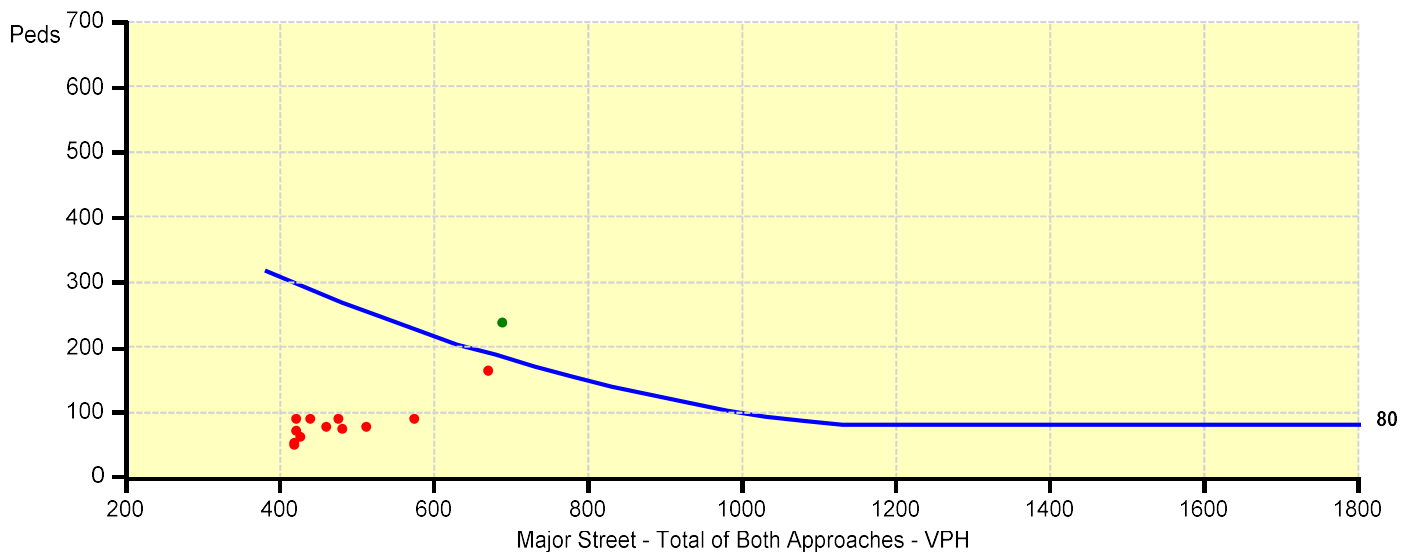
Summary

Only 1 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 4 (49th Ave NE)				Total	Minor Road Columbia Heights School Entrance		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
07:30 - 08:30	384	+	305	=	689	238	1	Yes
07:15 - 08:15	365	+	305	=	670	162	1	No
07:00 - 08:00	304	+	271	=	575	88	1	No
14:00 - 15:00	267	+	244	=	511	76	2	No
13:45 - 14:45	257	+	223	=	480	74	2	No
14:15 - 15:15	221	+	255	=	476	90	1	No
14:30 - 15:30	222	+	238	=	460	78	3	No
14:45 - 15:45	237	+	202	=	439	90	8	No
15:15 - 16:15	221	+	206	=	427	61	16	No
15:00 - 16:00	231	+	191	=	422	89	12	No
17:00 - 18:00	223	+	197	=	420	70	11	No
16:45 - 17:45	231	+	188	=	419	53	15	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 11/01/2022

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

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 4 (49th Ave NE)				Total	Minor Road Columbia Heights School Entrance		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
07:30 - 08:30	384	+	305	=	689	238	1	No
07:15 - 08:15	365	+	305	=	670	162	1	No
07:00 - 08:00	304	+	271	=	575	88	1	No
07:45 - 08:45	311	+	237	=	548	235	2	No
14:00 - 15:00	267	+	244	=	511	76	2	No
13:45 - 14:45	257	+	223	=	480	74	2	No
14:15 - 15:15	221	+	255	=	476	90	1	No
14:30 - 15:30	222	+	238	=	460	78	3	No
14:45 - 15:45	237	+	202	=	439	90	8	No
15:15 - 16:15	221	+	206	=	427	61	16	No
15:00 - 16:00	231	+	191	=	422	89	12	No
17:00 - 18:00	223		197		420	70	11	No

