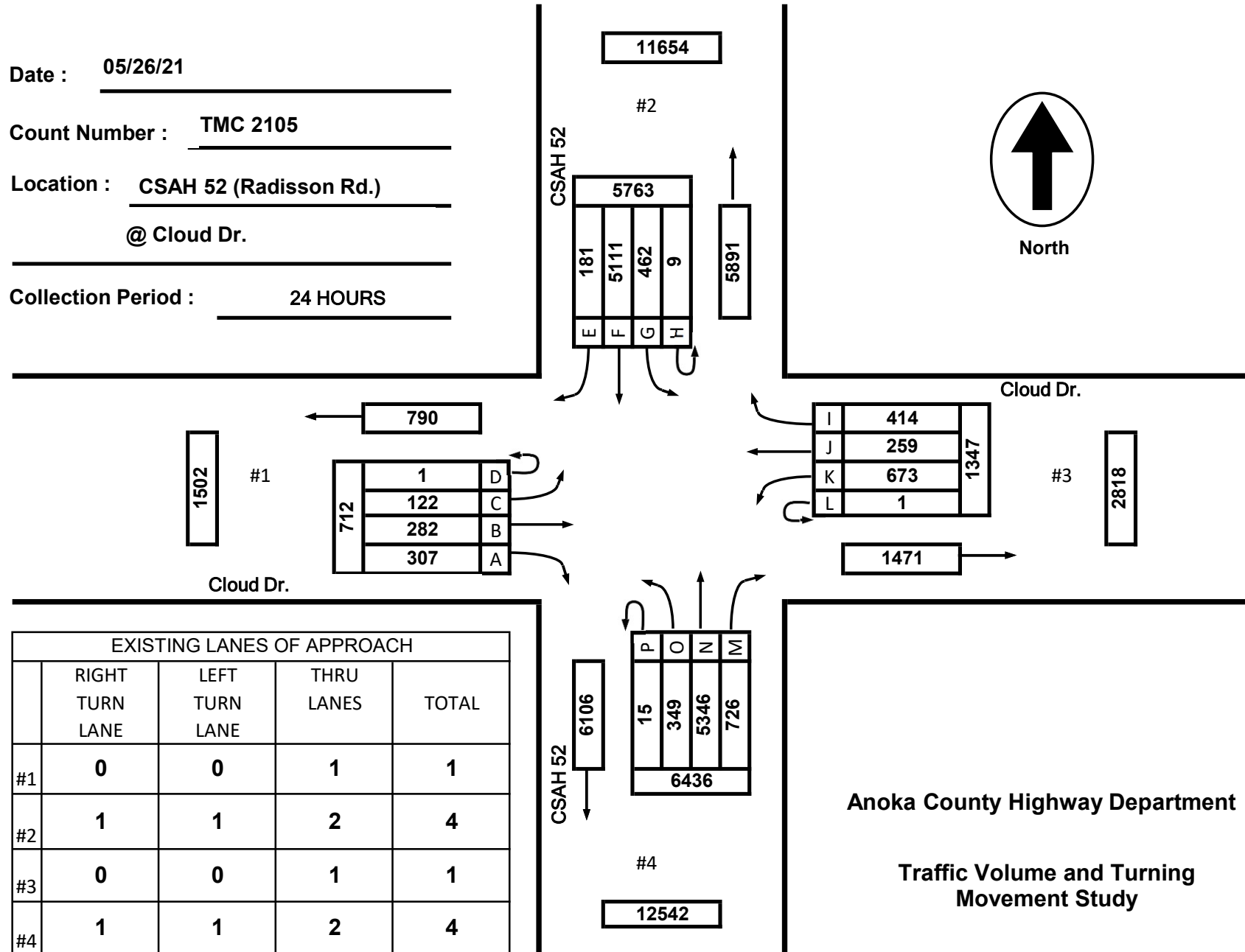


Date : 05/26/21

Count Number : TMC 2105

Location : CSAH 52 (Radisson Rd.)
@ Cloud Dr.

Collection Period : 24 HOURS



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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

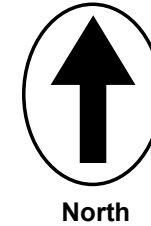
Date : 05/26/21

Count Number : TMC 2105

Location : CSAH 52 (Radisson Rd.)
@ Cloud Dr.

Collection Period : 7:15 - 8:15 AM

AM PEAK

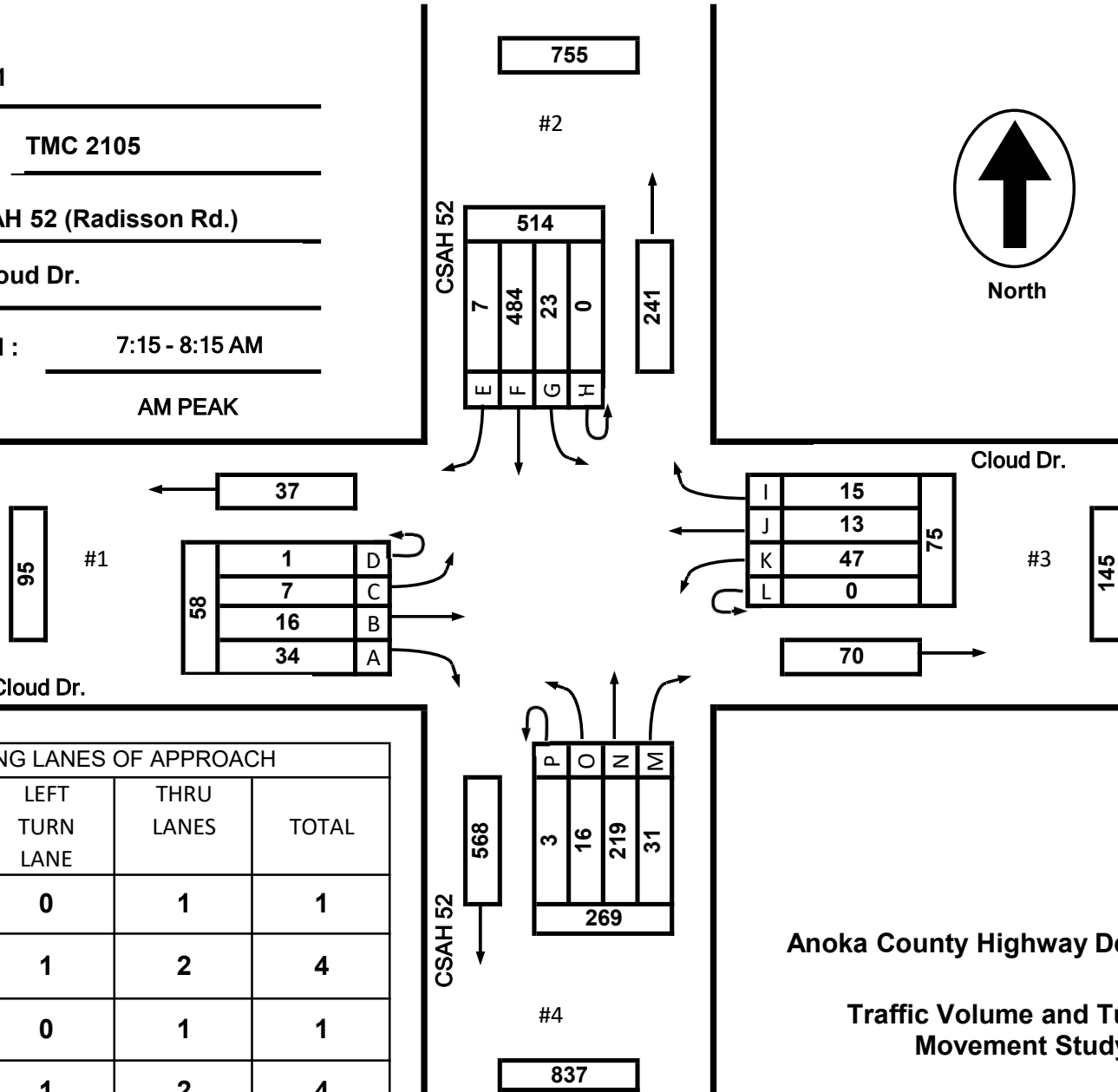


Cloud Dr.

Cloud Dr.

CSAH 52

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



Anoka County Highway Department

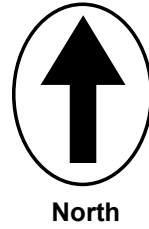
Traffic Volume and Turning Movement Study

Date : 05/26/21

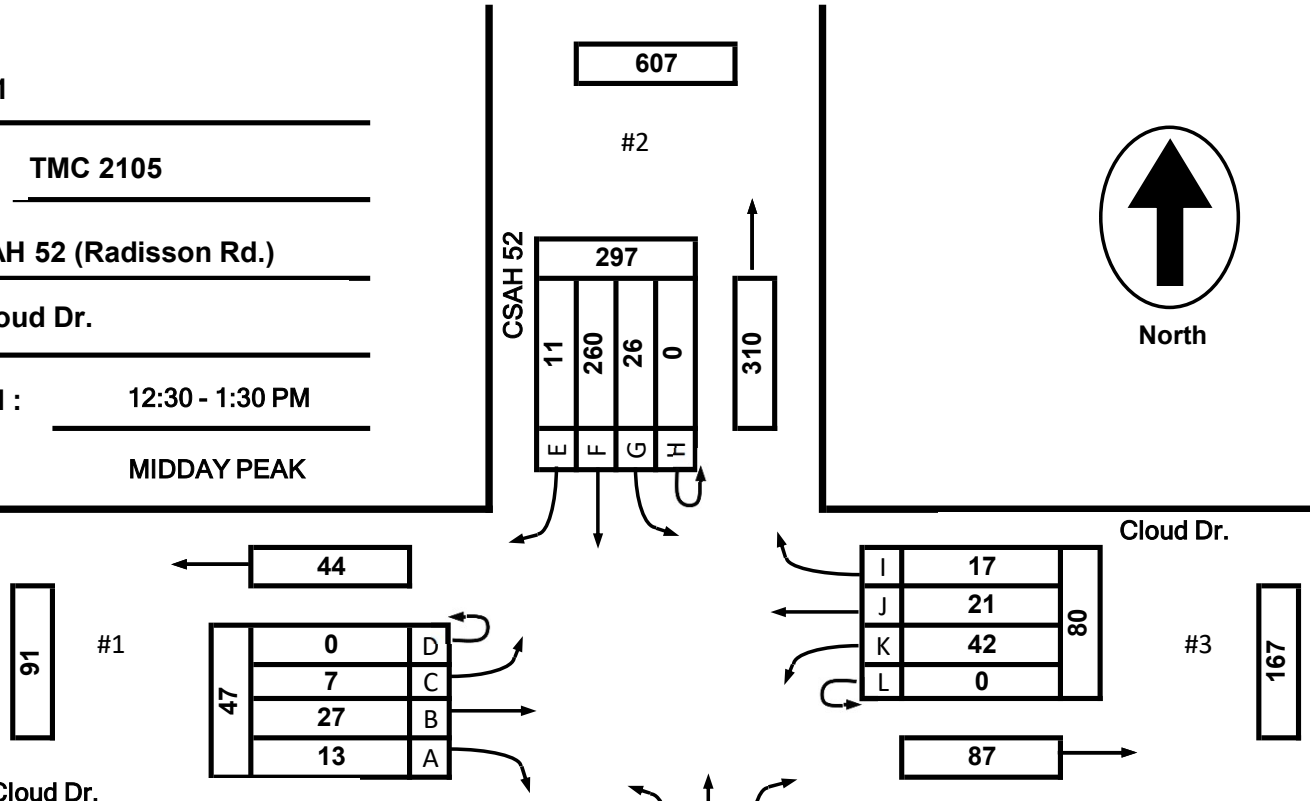
Count Number : TMC 2105

Location : CSAH 52 (Radisson Rd.)
@ Cloud Dr.

Collection Period : 12:30 - 1:30 PM
MIDDAY PEAK



North



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

Anoka County Highway Department
Traffic Volume and Turning Movement Study

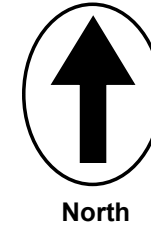
Date : 05/26/21

Count Number : TMC 2105

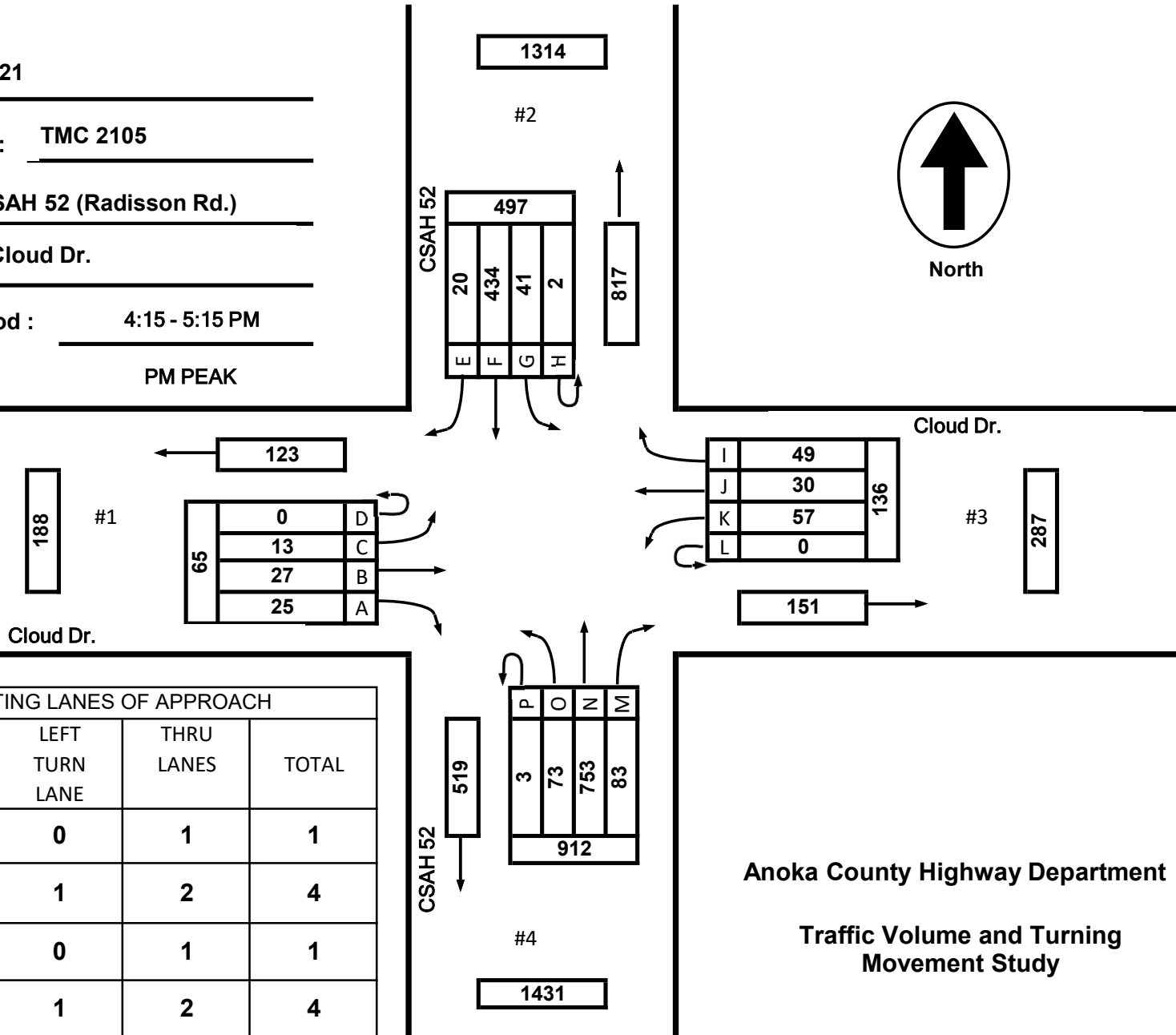
Location : CSAH 52 (Radisson Rd.)
@ Cloud Dr.

Collection Period : 4:15 - 5:15 PM

PM PEAK



North



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	0	1	1
#2	1	1	2	4
#3	0	0	1	1
#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 2105
 Site Code :
 Start Date : 05/26/2021
 Page No : 1

Weather: Cool & Sunny
 CountCAM 200
 Study Conducted By: Matt

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 (Radisson Rd.) Southbound						Cloud Dr. Westbound						CSAH 52 (Radisson Rd.) Northbound						Cloud Dr. Eastbound						Exclu. Total	Inclu. Total	Int. Total
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total			
00:00	1	0	4	2	0	7	0	0	0	0	0	0	0	3	10	0	0	13	0	0	1	2	0	3	0	23	23
00:15	0	1	8	0	0	9	0	0	0	0	0	0	0	0	6	1	0	7	0	0	0	1	0	1	0	17	17
00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	1	0	6	0	0	0	0	0	0	0	6	6
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	0	3	3
Total	1	1	12	2	0	16	0	0	0	0	0	0	0	5	22	2	0	29	0	0	1	3	0	4	0	49	49
01:00	0	0	3	0	0	3	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	0	0	9	9
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	4	4
01:30	0	0	2	0	0	2	0	0	0	1	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	5	5
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	0	5	0	0	0	0	0	0	0	5	5
Total	0	0	5	0	0	5	0	0	0	1	0	1	0	2	14	1	0	17	0	0	0	0	0	0	0	23	23
02:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
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	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
02:45	0	0	3	0	0	3	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	0	6	6
Total	0	0	6	1	0	7	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	0	10	10
03:00	0	0	5	0	0	5	0	0	1	0	0	1	0	0	3	1	0	4	0	0	0	0	0	0	0	10	10
03:15	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	6	6
03:30	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	6	6
03:45	0	0	3	0	0	3	0	0	1	0	0	1	0	0	4	1	0	5	0	0	0	0	0	0	0	9	9
Total	0	0	17	0	0	17	0	0	2	0	0	2	0	0	9	3	0	12	0	0	0	0	0	0	0	31	31
04:00	0	0	5	0	0	5	0	1	0	1	0	2	0	0	4	2	0	6	0	0	0	2	0	2	0	15	15
04:15	0	0	16	0	0	16	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	1	0	1	0	21	21
04:30	0	0	19	0	0	19	0	2	0	0	0	2	0	0	4	1	0	5	0	0	1	2	0	3	0	29	29
04:45	0	0	28	0	0	28	0	1	0	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	0	33	33
Total	0	0	68	0	0	68	0	5	0	1	0	6	0	0	15	3	0	18	0	0	1	5	0	6	0	98	98
05:00	0	1	37	0	0	38	0	3	0	0	0	3	0	0	6	0	0	6	0	0	0	1	0	1	0	48	48
05:15	0	0	51	1	0	52	0	2	0	0	0	2	0	0	8	0	0	8	0	0	0	7	0	7	0	69	69
05:30	0	1	61	0	0	62	0	4	0	2	0	6	0	0	10	1	0	11	0	1	0	6	0	7	0	86	86
05:45	0	2	68	2	0	72	0	6	2	1	0	9	0	1	19	1	0	21	0	1	1	6	0	8	0	110	110
Total	0	4	217	3	0	224	0	15	2	3	0	20	0	1	43	2	0	46	0	2	1	20	0	23	0	313	313



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Weather: Cool & Sunny
 CountCAM 200
 Study Conducted By: Matt

File Name : TMC 2105
 Site Code :
 Start Date : 05/26/2021
 Page No : 2

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 (Radisson Rd.) Southbound						Cloud Dr. Westbound						CSAH 52 (Radisson Rd.) Northbound						Cloud Dr. Eastbound						Exclu. Total	Inclu. Total	Int. Total
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total			
06:00	0	1	73	0	0	74	0	2	0	2	0	4	0	1	10	1	0	12	0	0	0	7	0	7	0	97	97
06:15	0	5	101	1	0	107	0	8	0	2	0	10	0	1	15	0	0	16	0	0	0	13	0	13	0	146	146
06:30	0	5	82	1	1	88	0	8	0	2	1	10	0	1	16	0	0	17	0	3	2	8	0	13	2	128	130
06:45	0	4	120	6	0	130	0	7	2	3	0	12	0	2	22	7	0	31	0	2	0	8	0	10	0	183	183
Total	0	15	376	8	1	399	0	25	2	9	1	36	0	5	63	8	0	76	0	5	2	36	0	43	2	554	556
07:00	0	5	121	0	0	126	0	8	1	2	0	11	0	1	33	8	0	42	0	2	0	5	0	7	0	186	186
07:15	0	7	136	2	0	145	0	15	2	2	0	19	1	5	64	6	0	76	1	1	6	5	0	13	0	253	253
07:30	0	3	134	0	0	137	0	15	4	2	0	21	2	4	48	8	1	62	0	4	3	10	0	17	1	237	238
07:45	0	9	118	3	1	130	0	10	4	3	0	17	0	3	59	7	1	69	0	1	2	9	1	12	3	228	231
Total	0	24	509	5	1	538	0	48	11	9	0	68	3	13	204	29	2	249	1	8	11	29	1	49	4	904	908
08:00	0	4	96	2	0	102	0	7	3	8	0	18	0	4	48	10	0	62	0	1	5	10	0	16	0	198	198
08:15	0	8	79	1	0	88	0	12	5	5	0	22	1	5	52	6	0	64	0	3	2	8	0	13	0	187	187
08:30	1	5	75	2	0	83	0	9	3	4	0	16	0	1	50	5	0	56	0	1	3	4	0	8	0	163	163
08:45	0	6	60	0	0	66	0	11	2	3	1	16	0	1	47	18	0	66	0	0	8	3	0	11	1	159	160
Total	1	23	310	5	0	339	0	39	13	20	1	72	1	11	197	39	0	248	0	5	18	25	0	48	1	707	708
09:00	0	8	53	1	0	62	0	28	9	3	0	40	1	8	56	26	1	91	0	2	6	2	1	10	2	203	205
09:15	1	7	75	2	0	85	0	25	9	2	0	36	1	2	65	8	0	76	0	0	5	4	0	9	0	206	206
09:30	0	4	57	0	0	61	0	8	2	5	0	15	0	2	50	7	0	59	0	2	3	2	0	7	0	142	142
09:45	0	3	66	1	0	70	0	10	4	6	0	20	0	3	62	8	0	73	0	2	5	3	0	10	0	173	173
Total	1	22	251	4	0	278	0	71	24	16	0	111	2	15	233	49	1	299	0	6	19	11	1	36	2	724	726
10:00	0	6	56	2	0	64	0	12	1	3	0	16	0	4	43	5	0	52	0	1	1	3	0	5	0	137	137
10:15	0	4	73	1	0	78	0	10	1	7	0	18	0	0	41	11	0	52	0	1	2	5	0	8	0	156	156
10:30	0	4	64	2	0	70	0	11	1	4	0	16	1	2	66	7	2	76	0	1	4	3	1	8	3	170	173
10:45	0	4	60	0	0	64	0	8	3	6	1	17	0	4	54	6	3	64	0	1	3	1	0	5	4	150	154
Total	0	18	253	5	0	276	0	41	6	20	1	67	1	10	204	29	5	244	0	4	10	12	1	26	7	613	620
11:00	0	5	69	0	0	74	0	3	3	5	0	11	0	3	61	2	0	66	0	1	2	2	0	5	0	156	156
11:15	0	5	51	3	0	59	0	4	1	5	0	10	0	2	65	8	0	75	0	0	6	5	0	11	0	155	155
11:30	0	3	60	1	0	64	0	5	3	7	0	15	0	4	59	13	0	76	0	0	3	3	0	6	0	161	161
11:45	0	6	70	3	2	79	0	5	4	4	0	13	1	4	62	6	0	73	0	0	1	4	0	5	2	170	172
Total	0	19	250	7	2	276	0	17	11	21	0	49	1	13	247	29	0	290	0	1	12	14	0	27	2	642	644
12:00	0	3	58	2	0	63	0	7	5	3	0	15	0	4	61	15	0	80	0	0	1	0	0	1	0	159	159



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Weather: Cool & Sunny
 CountCAM 200
 Study Conducted By: Matt

File Name : TMC 2105
 Site Code :
 Start Date : 05/26/2021
 Page No : 3

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 (Radisson Rd.) Southbound						Cloud Dr. Westbound						CSAH 52 (Radisson Rd.) Northbound						Cloud Dr. Eastbound						Exclu. Total	Inclu. Total	Int. Total
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total			
12:15	1	7	69	1	0	78	0	10	5	2	0	17	0	4	59	6	0	69	0	1	3	2	0	6	0	170	170
12:30	0	5	66	4	0	75	0	13	9	3	0	25	0	3	64	7	0	74	0	1	11	3	0	15	0	189	189
12:45	0	7	60	4	0	71	0	7	3	6	0	16	0	3	65	8	0	76	0	3	4	3	1	10	1	173	174
Total	1	22	253	11	0	287	0	37	22	14	0	73	0	14	249	36	0	299	0	5	19	8	1	32	1	691	692
13:00	0	7	62	1	0	70	0	11	3	2	0	16	0	4	81	8	1	93	0	1	5	5	0	11	1	190	191
13:15	0	7	72	2	1	81	0	11	6	6	0	23	0	2	76	11	1	89	0	2	7	2	0	11	2	204	206
13:30	0	9	56	0	0	65	0	6	7	5	0	18	0	3	56	13	0	72	0	0	4	5	0	9	0	164	164
13:45	0	3	50	4	0	57	0	5	4	3	0	12	0	4	65	5	0	74	0	3	4	4	0	11	0	154	154
Total	0	26	240	7	1	273	0	33	20	16	0	69	0	13	278	37	2	328	0	6	20	16	0	42	3	712	715
14:00	0	13	56	3	0	72	0	8	1	7	0	16	0	3	82	10	0	95	0	0	3	4	0	7	0	190	190
14:15	0	10	82	4	0	96	0	11	4	8	0	23	1	6	91	8	0	106	0	4	6	5	0	15	0	240	240
14:30	1	10	72	2	0	85	0	9	5	5	0	19	0	8	122	10	0	140	0	1	9	1	0	11	0	255	255
14:45	0	9	59	3	0	71	0	9	4	11	0	24	0	1	109	10	1	120	0	2	4	4	0	10	1	225	226
Total	1	42	269	12	0	324	0	37	14	31	0	82	1	18	404	38	1	461	0	7	22	14	0	43	1	910	911
15:00	1	7	86	0	1	94	0	13	6	6	1	25	0	5	131	17	1	153	0	3	12	6	0	21	3	293	296
15:15	0	12	75	2	1	89	0	6	9	10	0	25	0	9	142	22	2	173	0	3	8	6	0	17	3	304	307
15:30	0	11	67	1	0	79	0	10	6	12	1	28	0	10	136	21	1	167	0	2	3	4	0	9	2	283	285
15:45	0	11	92	2	0	105	0	25	9	20	0	54	0	10	159	20	0	189	0	2	6	3	1	11	1	359	360
Total	1	41	320	5	2	367	0	54	30	48	2	132	0	34	568	80	4	682	0	10	29	19	1	58	9	1239	1248
16:00	0	8	81	9	2	98	0	27	12	13	0	52	0	15	164	23	1	202	0	1	12	8	1	21	4	373	377
16:15	0	7	92	8	0	107	0	10	5	9	0	24	0	23	186	12	0	221	0	2	4	2	0	8	0	360	360
16:30	1	10	119	7	0	137	0	15	5	13	0	33	0	25	192	27	0	244	0	5	3	3	0	11	0	425	425
16:45	1	14	125	4	0	144	0	16	9	10	2	35	2	14	202	24	1	242	0	3	9	10	0	22	3	443	446
Total	2	39	417	28	2	486	0	68	31	45	2	144	2	77	744	86	2	909	0	11	28	23	1	62	7	1601	1608
17:00	0	10	98	1	0	109	0	16	11	17	0	44	1	11	173	20	0	205	0	3	11	10	0	24	0	382	382
17:15	0	9	121	11	0	141	0	11	10	9	0	30	0	8	143	20	0	171	0	3	8	5	0	16	0	358	358
17:30	0	14	82	3	0	99	0	9	2	19	0	30	0	9	124	15	1	148	0	4	8	5	1	17	2	294	296
17:45	0	11	97	4	0	112	1	11	6	10	1	28	0	11	146	19	1	176	0	2	9	6	0	17	2	333	335
Total	0	44	398	19	0	461	1	47	29	55	1	132	1	39	586	74	2	700	0	12	36	26	1	74	4	1367	1371
18:00	0	15	109	6	2	130	0	8	3	12	1	23	0	5	120	20	2	145	0	4	7	2	0	13	5	311	316
18:15	0	10	89	4	0	103	0	13	3	7	0	23	1	8	110	17	0	136	0	6	3	3	0	12	0	274	274



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Weather: Cool & Sunny
 CountCAM 200
 Study Conducted By: Matt

File Name : TMC 2105
 Site Code :
 Start Date : 05/26/2021
 Page No : 4

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 (Radisson Rd.) Southbound						Cloud Dr. Westbound						CSAH 52 (Radisson Rd.) Northbound						Cloud Dr. Eastbound						Exclu. Total	Inclu. Total	Int. Total	
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total				
18:30	0	8	63	7	2	78	0	12	7	12	0	31	0	7	119	22	0	148	0	2	6	5	1	13	3	270	273	
18:45	0	12	71	3	0	86	0	15	2	6	0	23	0	7	106	15	0	128	0	2	5	1	0	8	0	245	245	
Total	0	45	332	20	4	397	0	48	15	37	1	100	1	27	455	74	2	557	0	14	21	11	1	46	8	1100	1108	
19:00	0	12	62	4	2	78	0	10	2	6	0	18	0	2	70	11	0	83	0	6	5	7	1	18	3	197	200	
19:15	0	9	56	6	0	71	0	11	2	11	0	24	0	4	86	13	0	103	0	2	3	3	0	8	0	206	206	
19:30	1	11	56	1	0	69	0	15	2	3	0	20	0	3	92	9	0	104	0	2	3	7	0	12	0	205	205	
19:45	0	9	59	3	0	71	0	11	1	6	1	18	0	2	67	12	1	81	0	3	3	3	0	9	2	179	181	
Total	1	41	233	14	2	289	0	47	7	26	1	80	0	11	315	45	1	371	0	13	14	20	1	47	5	787	792	
20:00	0	3	67	3	0	73	0	6	4	10	0	20	1	5	63	14	0	83	0	2	2	1	0	5	0	181	181	
20:15	0	2	39	1	0	42	0	9	1	6	0	16	0	6	67	10	1	83	0	1	2	0	0	3	1	144	145	
20:30	0	10	44	3	0	57	0	6	5	6	0	17	0	6	57	8	0	71	0	1	3	4	0	8	0	153	153	
20:45	0	5	28	4	0	37	0	6	3	5	0	14	0	3	35	5	2	43	0	4	0	2	0	6	2	100	102	
Total	0	20	178	11	0	209	0	27	13	27	0	67	1	20	222	37	3	280	0	8	7	7	0	22	3	578	581	
21:00	0	4	40	2	0	46	0	3	3	1	0	7	0	4	54	5	0	63	0	1	3	2	0	6	0	122	122	
21:15	0	4	29	1	0	34	0	2	0	2	0	4	0	3	35	4	0	42	0	2	1	2	0	5	0	85	85	
21:30	0	3	18	0	0	21	0	0	1	2	0	3	1	0	26	3	0	30	0	0	2	0	0	2	0	56	56	
21:45	0	1	27	2	0	30	0	1	1	2	0	4	0	3	28	2	0	33	0	0	0	1	0	1	0	68	68	
Total	0	12	114	5	0	131	0	6	5	7	0	18	1	10	143	14	0	168	0	3	6	5	0	14	0	331	331	
22:00	0	1	18	2	0	21	0	3	0	2	0	5	0	2	23	2	0	27	0	0	0	0	0	0	0	0	53	53
22:15	0	0	15	2	0	17	0	1	0	2	0	3	0	0	23	3	0	26	0	0	2	0	0	2	0	48	48	
22:30	0	2	10	1	0	13	0	1	1	1	0	3	0	2	27	1	0	30	0	1	0	0	0	1	0	47	47	
22:45	0	0	12	2	0	14	0	1	0	0	0	1	0	0	20	2	0	22	0	1	1	1	0	3	0	40	40	
Total	0	3	55	7	0	65	0	6	1	5	0	12	0	4	93	8	0	105	0	2	3	1	0	6	0	188	188	
23:00	0	1	8	2	0	11	0	0	0	3	0	3	0	1	8	2	0	11	0	0	1	1	0	2	0	27	27	
23:15	0	0	9	0	0	9	0	2	1	0	0	3	0	1	9	1	0	11	0	0	1	0	0	1	0	24	24	
23:30	0	0	5	0	0	5	0	0	0	0	0	0	0	3	11	0	0	14	0	0	0	1	0	1	0	20	20	
23:45	0	0	6	0	0	6	0	0	0	0	0	0	0	1	8	0	0	9	0	0	0	0	0	0	0	15	15	
Total	0	1	28	2	0	31	0	2	1	3	0	6	0	6	36	3	0	45	0	0	2	2	0	4	0	86	86	
Grand Total	9	462	5111	181	15	5763	1	673	259	414	10	1347	15	349	5346	726	25	6436	1	122	282	307	9	712	59	14258	14317	
Apprch %	0.2	8	88.7	3.1			0.1	50	19.2	30.7			0.2	5.4	83.1	11.3			0.1	17.1	39.6	43.1						
Total %	0.1	3.2	35.8	1.3		40.4	0	4.7	1.8	2.9		9.4	0.1	2.4	37.5	5.1		45.1	0	0.9	2	2.2		5	0.4	99.6		
Cars +	9	451	4944	176		5595	1	652	253	410		1326	15	344	5157	712		6253	1	122	276	303		711	0	0	13885	
% Cars +	100	97.6	96.7	97.2	100	96.8	100	96.9	97.7	99	100	97.7	100	98.6	96.5	98.1	100	96.8	100	100	97.9	98.7	100	98.6	0	0	97	
Trucks	0	11	167	5		183	0	21	6	4		31	0	5	189	14		208	0	0	6	4		10	0	0	432	
% Trucks	0	2.4	3.3	2.8	0	3.2	0	3.1	2.3	1	0	2.3	0	1.4	3.5	1.9	0	3.2	0	0	2.1	1.3	0	1.4	0	0	3	

Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Start Time	CSAH 52 (Radisson Rd.) Southbound					Cloud Dr. Westbound					CSAH 52 (Radisson Rd.) Northbound					Cloud Dr. Eastbound					Int. Total
	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	
Peak Hour Analysis From 00:00 to 09:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15																					
07:15	0	7	136	2	145	0	15	2	2	19	1	5	64	6	76	1	1	6	5	13	253
07:30	0	3	134	0	137	0	15	4	2	21	2	4	48	8	62	0	4	3	10	17	237
07:45	0	9	118	3	130	0	10	4	3	17	0	3	59	7	69	0	1	2	9	12	228
08:00	0	4	96	2	102	0	7	3	8	18	0	4	48	10	62	0	1	5	10	16	198
Total Volume	0	23	484	7	514	0	47	13	15	75	3	16	219	31	269	1	7	16	34	58	916
% App. Total	0	4.5	94.2	1.4		0	62.7	17.3	20		1.1	5.9	81.4	11.5		1.7	12.1	27.6	58.6		
PHF	.000	.639	.890	.583	.886	.000	.783	.813	.469	.893	.375	.800	.855	.775	.885	.250	.438	.667	.850	.853	.905

Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 12:30																					
12:30	0	5	66	4	75	0	13	9	3	25	0	3	64	7	74	0	1	11	3	15	189
12:45	0	7	60	4	71	0	7	3	6	16	0	3	65	8	76	0	3	4	3	10	173
13:00	0	7	62	1	70	0	11	3	2	16	0	4	81	8	93	0	1	5	5	11	190
13:15	0	7	72	2	81	0	11	6	6	23	0	2	76	11	89	0	2	7	2	11	204
Total Volume	0	26	260	11	297	0	42	21	17	80	0	12	286	34	332	0	7	27	13	47	756
% App. Total	0	8.8	87.5	3.7		0	52.5	26.2	21.2		0	3.6	86.1	10.2		0	14.9	57.4	27.7		
PHF	.000	.929	.903	.688	.917	.000	.808	.583	.708	.800	.000	.750	.883	.773	.892	.000	.583	.614	.650	.783	.926

Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:15																					
16:15	0	7	92	8	107	0	10	5	9	24	0	23	186	12	221	0	2	4	2	8	360
16:30	1	10	119	7	137	0	15	5	13	33	0	25	192	27	244	0	5	3	3	11	425
16:45	1	14	125	4	144	0	16	9	10	35	2	14	202	24	242	0	3	9	10	22	443
17:00	0	10	98	1	109	0	16	11	17	44	1	11	173	20	205	0	3	11	10	24	382
Total Volume	2	41	434	20	497	0	57	30	49	136	3	73	753	83	912	0	13	27	25	65	1610
% App. Total	0.4	8.2	87.3	4		0	41.9	22.1	36		0.3	8	82.6	9.1		0	20	41.5	38.5		
PHF	.500	.732	.868	.625	.863	.000	.891	.682	.721	.773	.375	.730	.932	.769	.934	.000	.650	.614	.625	.677	.909



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2105
 Site Code :
 Start Date : 05/26/2021
 Page No : 1

Weather: Cool & Sunny
 CountCAM 200
 Study Conducted By: Matt

Groups Printed- Trucks

Start Time	CSAH 52 (Radisson Rd.) Southbound					Cloud Dr. Westbound					CSAH 52 (Radisson Rd.) Northbound					Cloud Dr. Eastbound					Int. Total	
	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
06:15	0	0	8	0	8	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	9
06:30	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
06:45	0	0	4	1	5	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	1	7
Total	0	0	18	1	19	0	1	0	0	1	0	0	1	0	1	0	0	0	1	1	1	22
07:00	0	0	3	0	3	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	5
07:15	0	0	3	1	4	0	0	1	0	1	0	1	9	1	11	0	0	0	0	0	0	16
07:30	0	0	3	0	3	0	0	0	1	1	0	0	2	0	2	0	0	0	0	0	0	6
07:45	0	1	3	0	4	0	0	0	0	0	0	0	8	1	9	0	0	0	0	0	0	13
Total	0	1	12	1	14	0	0	2	1	3	0	1	20	2	23	0	0	0	0	0	0	40
08:00	0	0	2	0	2	0	0	0	1	1	0	0	10	0	10	0	0	0	0	0	0	13
08:15	0	1	2	0	3	0	0	0	0	0	0	0	8	1	9	0	0	0	1	1	1	13
08:30	0	1	5	0	6	0	1	0	0	1	0	0	2	0	2	0	0	0	0	0	0	9
08:45	0	0	2	0	2	0	0	0	0	0	0	0	5	0	5	0	0	2	0	2	2	9
Total	0	2	11	0	13	0	1	0	1	2	0	0	25	1	26	0	0	2	1	3	3	44



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2105
 Site Code :
 Start Date : 05/26/2021
 Page No : 2

Weather: Cool & Sunny
 CountCAM 200
 Study Conducted By: Matt

Groups Printed- Trucks

Start Time	CSAH 52 (Radisson Rd.) Southbound					Cloud Dr. Westbound					CSAH 52 (Radisson Rd.) Northbound					Cloud Dr. Eastbound					Int. Total
	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	
09:00	0	0	2	0	2	0	4	0	0	4	0	0	7	3	10	0	0	1	0	1	17
09:15	0	1	8	0	9	0	5	0	0	5	0	0	7	0	7	0	0	0	0	0	21
09:30	0	0	2	0	2	0	0	0	0	0	0	0	6	0	6	0	0	0	0	0	8
09:45	0	1	1	0	2	0	1	0	0	1	0	0	6	0	6	0	0	0	0	0	9
Total	0	2	13	0	15	0	10	0	0	10	0	0	26	3	29	0	0	1	0	1	55
10:00	0	0	2	0	2	0	0	0	0	0	0	0	7	0	7	0	0	1	0	1	10
10:15	0	1	3	0	4	0	2	0	1	3	0	0	7	0	7	0	0	0	0	0	14
10:30	0	0	5	0	5	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	7
10:45	0	0	1	0	1	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	3
Total	0	1	11	0	12	0	2	0	1	3	0	0	18	0	18	0	0	1	0	1	34
11:00	0	0	5	0	5	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	10
11:15	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4	0	0	0	0	0	4
11:30	0	0	3	0	3	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	6
11:45	0	0	4	0	4	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	7
Total	0	0	12	0	12	0	0	0	0	0	0	0	14	1	15	0	0	0	0	0	27
12:00	0	0	5	0	5	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	8
12:15	0	0	8	0	8	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	12
12:30	0	1	7	1	9	0	0	0	0	0	0	0	3	1	4	0	0	0	0	0	13
12:45	0	0	5	0	5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	6
Total	0	1	25	1	27	0	0	0	0	0	0	1	9	2	12	0	0	0	0	0	39
13:00	0	0	5	0	5	0	2	0	0	2	0	0	3	1	4	0	0	0	0	0	11
13:15	0	1	8	0	9	0	1	0	0	1	0	0	4	0	4	0	0	0	0	0	14
13:30	0	0	4	0	4	0	0	1	0	1	0	0	3	0	3	0	0	0	0	0	8
13:45	0	0	3	0	3	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	6
Total	0	1	20	0	21	0	3	1	0	4	0	0	13	1	14	0	0	0	0	0	39
14:00	0	0	3	0	3	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	6
14:15	0	0	4	0	4	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	7
14:30	0	0	7	0	7	0	0	0	0	0	0	0	3	1	4	0	0	0	0	0	11
14:45	0	0	5	0	5	0	0	0	0	0	0	0	6	0	6	0	0	0	1	1	12
Total	0	0	19	0	19	0	0	0	0	0	0	1	14	1	16	0	0	0	1	1	36
15:00	0	0	5	0	5	0	0	0	0	0	0	0	1	1	2	0	0	1	0	1	8
15:15	0	0	2	0	2	0	1	0	0	1	0	0	4	1	5	0	0	1	1	2	10
15:30	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
15:45	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	0	0	0	0	0	4
Total	0	1	7	0	8	0	1	0	0	1	0	1	9	2	12	0	0	2	1	3	24
16:00	0	1	5	1	7	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	10
16:15	0	0	2	0	2	0	1	0	0	1	0	0	7	0	7	0	0	0	0	0	10
16:30	0	0	2	1	3	0	2	0	0	2	0	0	6	1	7	0	0	0	0	0	12
16:45	0	0	1	0	1	0	0	1	0	1	0	0	5	0	5	0	0	0	0	0	7
Total	0	1	10	2	13	0	3	1	0	4	0	0	21	1	22	0	0	0	0	0	39
17:00	0	1	0	0	1	0	0	1	0	1	0	0	4	0	4	0	0	0	0	0	6
17:15	0	0	0	0	0	0	0	0	1	1	0	0	2	0	2	0	0	0	0	0	3
17:30	0	0	1	0	1	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	3
17:45	0	0	1	0	1	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	4
Total	0	1	2	0	3	0	0	1	1	2	0	1	10	0	11	0	0	0	0	0	16
18:00	0	0	1	0	1	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	3
18:15	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	2



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2105
 Site Code :
 Start Date : 05/26/2021
 Page No : 3

Weather: Cool & Sunny
 CountCAM 200
 Study Conducted By: Matt

Groups Printed- Trucks

Start Time	CSAH 52 (Radisson Rd.) Southbound					Cloud Dr. Westbound					CSAH 52 (Radisson Rd.) Northbound					Cloud Dr. Eastbound					Int. Total
	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	
18:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
18:45	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Total	0	0	2	0	2	0	0	1	0	1	0	0	5	0	5	0	0	0	0	0	0
19:00	0	0	1	0	1	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	1	0	1	0	0	0	0	0	0
19:30	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
19:45	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Total	0	0	3	0	3	0	0	0	0	0	0	0	3	0	3	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
20:15	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	1	0	1	0	0	0	0	0	0	0	1	0	1	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
Total	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	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
21:15	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
21:45	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
22:00	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
22:30	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
Total	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
23:15	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
23:45	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
Grand Total	0	11	167	5	183	0	21	6	4	31	0	5	189	14	208	0	0	6	4	10	432
Apprch %	0	6	91.3	2.7		0	67.7	19.4	12.9		0	2.4	90.9	6.7		0	0	60	40		
Total %	0	2.5	38.7	1.2	42.4	0	4.9	1.4	0.9	7.2	0	1.2	43.8	3.2	48.1	0	0	1.4	0.9	2.3	

ANOKA COUNTY HIGHWAY DEPARTMENT

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2105

Study Date: 07/16/2021

Page No: 1

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 52 (Radisson Rd.)

Number of Lanes : 2

Total Approach Volume: 6,436

Southbound: CSAH 52 (Radisson Rd.)

Number of Lanes : 2

Total Approach Volume: 5,763

Minor Street Approaches

Eastbound: Cloud Dr.

Number of Lanes : 1

Total Approach Volume: 712

Westbound: Cloud Dr.

Number of Lanes : 1

Total Approach Volume: 1,347

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 4 hours, 8 are needed

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

Required volumes reached for 8 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Not Satisfied

Required 1A volumes reached for 7 hours, 8 are needed
Required 1B volumes reached for 14 hours, 8 are needed

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

Number of hours (5) volumes exceed minimum \geq minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

Warrant 3A - Peak Hour Delay.....Not Satisfied

Approach volumes on minor street don't exceed minimums for any hour. Delay data not evaluated.

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

Volumes exceed minimums for at least one hour.

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 DEPARTMENT

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: **TMC 2105**

Study Date: **07/16/2021**

Page No: **2**

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 4 hours meet minimums.
Warrant is NOT 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				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	909	+	486	=	1395	62	144	Yes
17:00 - 18:00	700	+	461	=	1161	74	132	Yes
15:00 - 16:00	682	+	367	=	1049	58	132	Yes
08:30 - 09:30	289	+	296	=	585	38	108	Yes
18:00 - 19:00	557	+	397	=	954	46	100	No
14:45 - 15:45	613	+	333	=	946	57	102	No
14:30 - 15:30	586	+	339	=	925	59	93	No
14:15 - 15:15	519	+	346	=	865	57	91	No
18:15 - 19:15	495	+	345	=	840	51	95	No
07:00 - 08:00	249	+	538	=	787	49	68	No
14:00 - 15:00	461	+	324	=	785	43	82	No
07:15 - 08:15	269	+	514	=	783	58	75	No
18:30 - 19:30	462	+	313	=	775	47	96	No
06:45 - 07:45	211	+	538	=	749	47	63	No
13:45 - 14:45	415	+	310	=	725	44	70	No
18:45 - 19:45	418	+	304	=	722	46	85	No
07:30 - 08:30	257	+	457	=	714	58	78	No
19:00 - 20:00	371	+	289	=	660	47	80	No
19:15 - 20:15	371	+	284	=	655	34	82	No
06:30 - 07:30	166	+	489	=	655	43	52	No
07:45 - 08:45	251	+	403	=	654	49	73	No
13:30 - 14:30	347	+	290	=	637	42	69	No
12:30 - 13:30	332	+	297	=	629	47	80	No
12:45 - 13:45	330	+	287	=	617	41	73	No
19:30 - 20:30	351		255		606	29	74	No