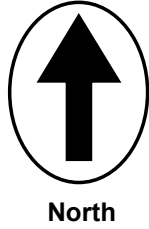
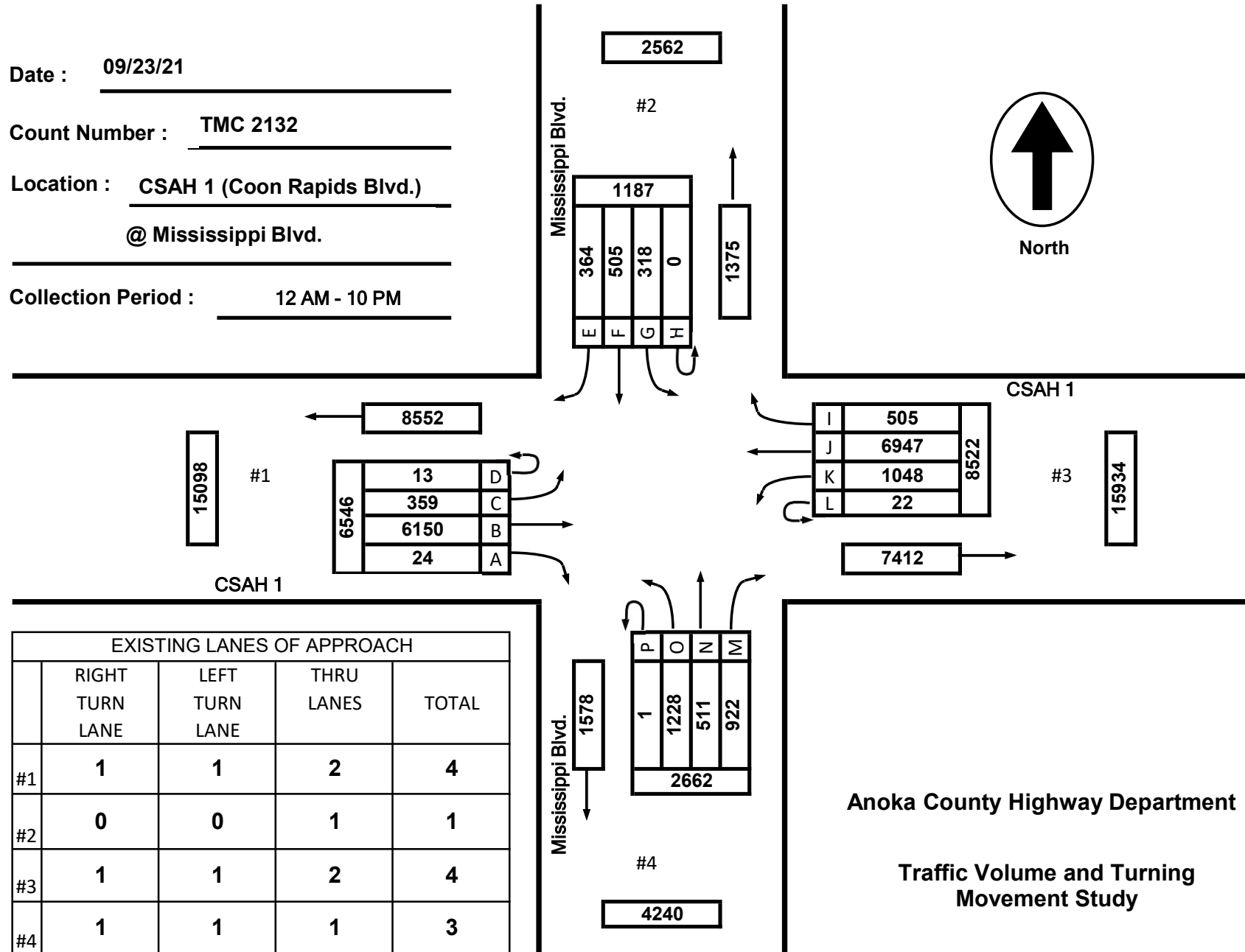


Date : 09/23/21

Count Number : TMC 2132

Location : CSAH 1 (Coon Rapids Blvd.)
@ Mississippi Blvd.

Collection Period : 12 AM - 10 PM



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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

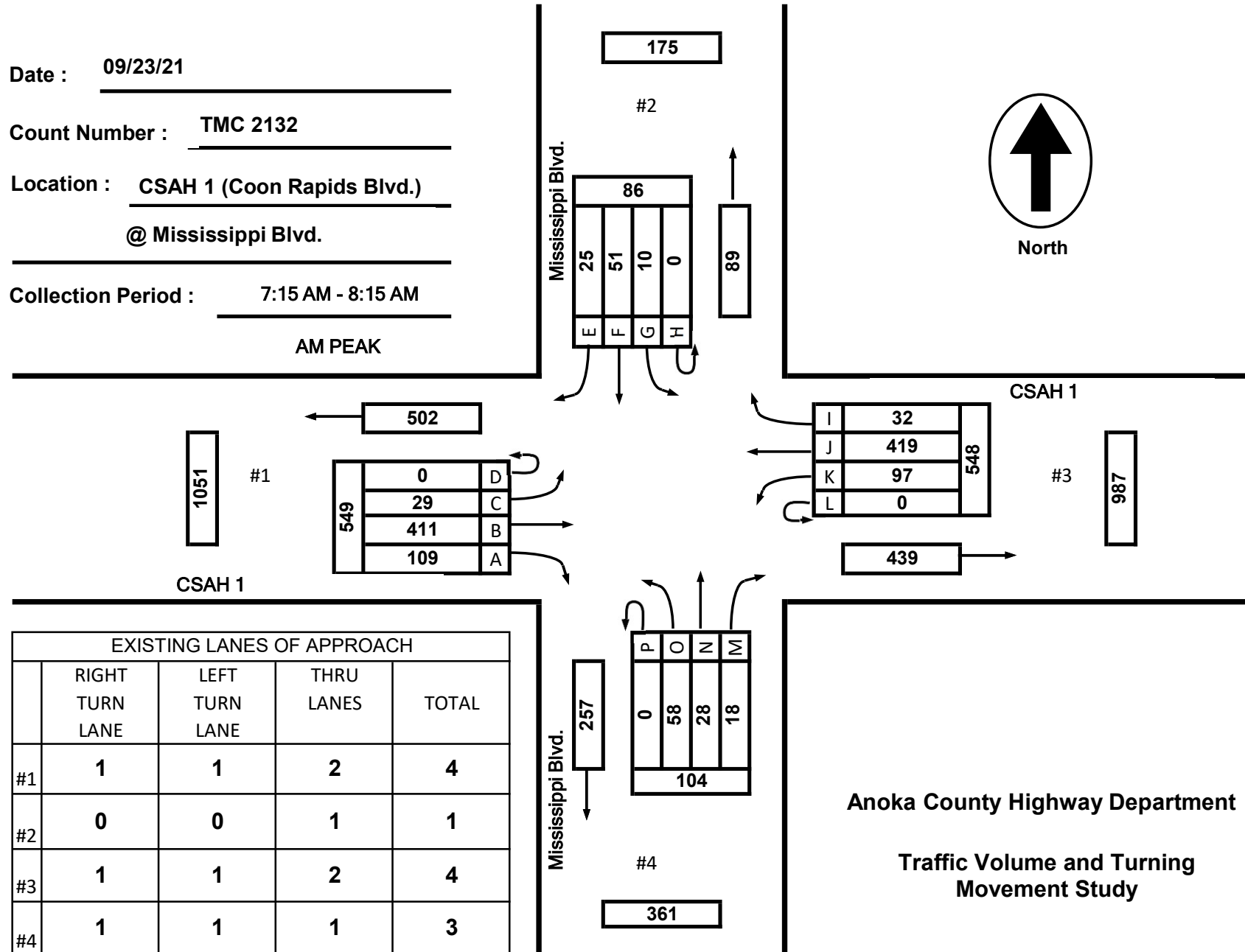
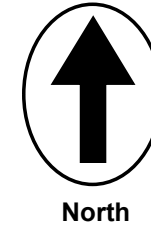
Date : 09/23/21

Count Number : TMC 2132

Location : CSAH 1 (Coon Rapids Blvd.)
@ Mississippi Blvd.

Collection Period : 7:15 AM - 8:15 AM

AM PEAK



Anoka County Highway Department

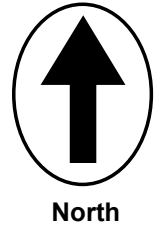
Traffic Volume and Turning Movement Study

Date : 09/23/21

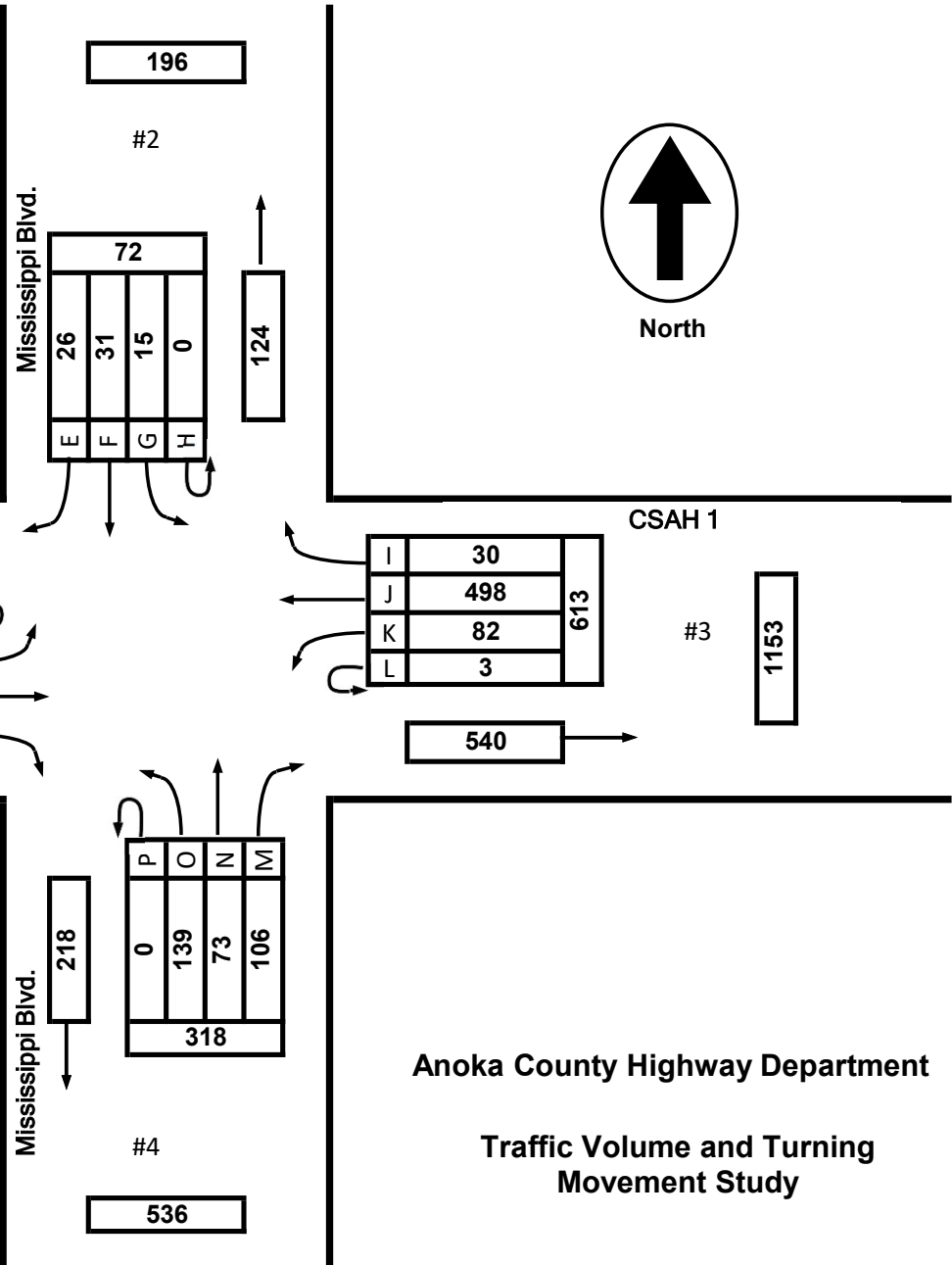
Count Number : TMC 2132

Location : CSAH 1 (Coon Rapids Blvd.)
@ Mississippi Blvd.

Collection Period : 1:00 - 2:00 PM
MIDDAY PEAK



North



CSAH 1

CSAH 1

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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

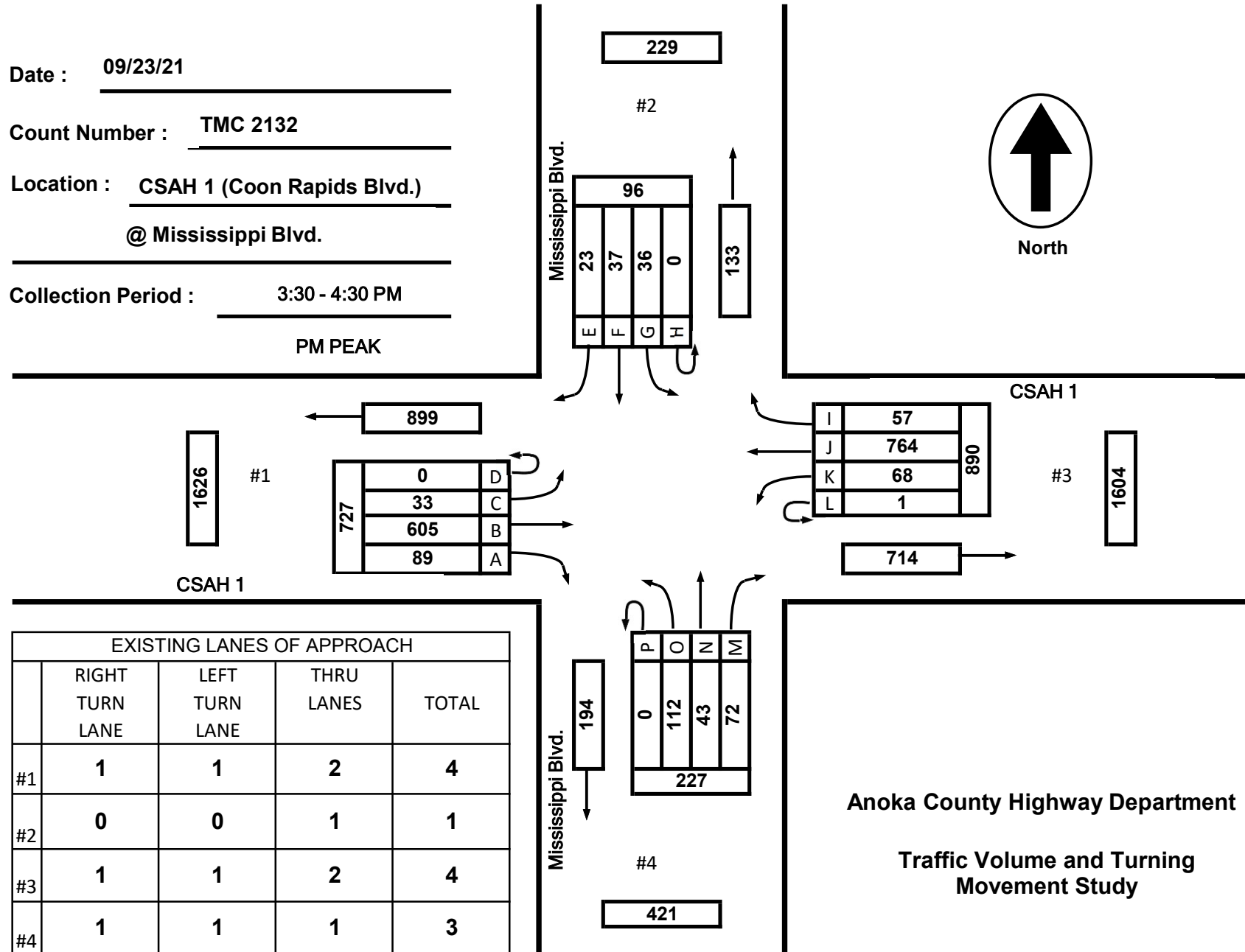
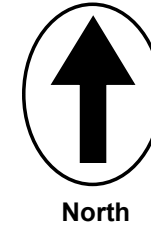
Date : 09/23/21

Count Number : TMC 2132

Location : CSAH 1 (Coon Rapids Blvd.)
@ Mississippi Blvd.

Collection Period : 3:30 - 4:30 PM

PM PEAK



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

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 2132
 Site Code :
 Start Date : 09/23/2021
 Page No : 1

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

Groups Printed- Cars + - Trucks

Start Time	Mississippi Blvd. Southbound						CSAH 1 Westbound						Mississippi Blvd. Northbound						CSAH 1 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	0	0	0	0	0	0	0	1	9	0	0	10	0	0	0	1	0	1	0	1	12	1	0	14	0	25	25
00:15	0	1	0	0	0	1	1	0	14	0	0	15	0	0	0	2	0	2	0	0	5	1	0	6	0	24	24
00:30	0	0	0	0	0	0	0	0	7	1	0	8	0	0	0	0	0	0	0	0	5	0	0	5	0	13	13
00:45	0	0	0	0	1	0	0	0	8	0	0	8	0	0	1	0	0	1	0	2	6	0	0	8	1	17	18
Total	0	1	0	0	1	1	1	1	38	1	0	41	0	0	1	3	0	4	0	3	28	2	0	33	1	79	80
01:00	0	0	0	0	1	0	0	0	7	0	0	7	0	0	0	1	0	1	0	0	9	1	0	10	1	18	19
01:15	0	0	0	0	0	0	0	1	7	0	0	8	0	1	0	0	0	1	0	0	8	0	0	8	0	17	17
01:30	0	0	0	1	0	1	0	0	4	0	0	4	0	1	0	0	0	1	0	0	6	0	0	6	0	12	12
01:45	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	5	0	0	5	0	13	13
Total	0	0	0	1	1	1	0	1	26	0	0	27	0	2	0	1	0	3	0	0	28	1	0	29	1	60	61
02:00	0	0	0	0	0	0	0	0	5	0	0	5	0	0	1	1	0	2	0	0	4	0	0	4	0	11	11
02:15	0	0	0	1	0	1	0	0	5	0	0	5	1	1	0	0	0	2	0	0	5	0	0	5	0	13	13
02:30	0	0	1	0	0	1	0	0	3	0	0	3	0	1	0	0	0	1	0	1	4	1	0	6	0	11	11
02:45	0	0	0	1	0	1	0	1	1	1	0	3	0	0	0	0	0	0	0	0	3	0	0	3	0	7	7
Total	0	0	1	2	0	3	0	1	14	1	0	16	1	2	1	1	0	5	0	1	16	1	0	18	0	42	42
03:00	0	0	1	0	0	1	0	0	3	0	0	3	0	0	1	0	0	1	0	0	2	0	0	2	0	7	7
03:15	0	0	0	0	0	0	0	0	3	1	0	4	0	2	0	0	0	2	0	0	5	0	0	5	0	11	11
03:30	0	3	0	0	0	3	0	1	3	0	0	4	0	0	0	0	0	0	0	0	16	0	0	16	0	23	23
03:45	0	0	0	1	0	1	0	0	4	0	0	4	0	2	0	0	0	2	1	0	9	0	0	10	0	17	17
Total	0	3	1	1	0	5	0	1	13	1	0	15	0	4	1	0	5	1	0	32	0	0	33	0	58	58	
04:00	0	1	1	0	1	2	0	0	7	0	0	7	0	1	0	0	0	1	0	0	10	1	0	11	1	21	22
04:15	0	2	0	0	0	2	0	0	9	0	0	9	0	0	0	0	0	0	0	1	8	0	0	9	0	20	20
04:30	0	1	0	2	0	3	0	1	19	0	0	20	0	5	0	1	0	6	0	0	13	1	0	14	0	43	43
04:45	0	1	0	2	0	3	0	0	10	0	0	10	0	2	0	0	0	2	0	0	18	0	0	18	0	33	33
Total	0	5	1	4	1	10	0	1	45	0	0	46	0	8	0	1	0	9	0	1	49	2	0	52	1	117	118
05:00	0	1	0	0	0	1	0	1	4	0	0	5	0	1	0	1	0	2	0	0	30	1	1	31	1	39	40
05:15	0	5	2	2	0	9	0	1	16	0	0	17	0	3	0	2	0	5	0	0	27	4	0	31	0	62	62
05:30	0	3	2	1	0	6	0	6	22	0	0	28	0	1	1	1	0	3	0	0	47	4	0	51	0	88	88
05:45	0	1	1	3	0	5	0	2	17	1	0	20	0	7	1	3	0	11	0	0	42	8	0	50	0	86	86
Total	0	10	5	6	0	21	0	10	59	1	0	70	0	12	2	7	0	21	0	0	146	17	1	163	1	275	276



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2132
 Site Code :
 Start Date : 09/23/2021
 Page No : 2

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

Groups Printed- Cars + - Trucks

Start Time	Mississippi Blvd. Southbound						CSAH 1 Westbound						Mississippi Blvd. Northbound						CSAH 1 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	4	1	1	0	6	0	2	31	4	0	37	0	3	2	0	0	5	0	2	35	4	0	41	0	89	89
06:15	0	3	2	1	1	6	0	6	34	4	0	44	0	10	2	1	0	13	0	2	61	6	0	69	1	132	133
06:30	0	3	2	5	0	10	0	7	61	3	0	71	0	11	2	3	0	16	0	1	69	7	0	77	0	174	174
06:45	0	5	6	8	0	19	0	18	73	1	0	92	0	15	3	4	1	22	0	3	68	10	1	81	2	214	216
Total	0	15	11	15	1	41	0	33	199	12	0	244	0	39	9	8	1	56	0	8	233	27	1	268	3	609	612
07:00	0	8	1	8	0	17	0	3	73	6	3	82	0	15	4	5	0	24	0	4	98	12	0	114	3	237	240
07:15	0	3	3	13	0	19	0	16	79	7	0	102	0	21	8	3	0	32	0	4	91	22	0	117	0	270	270
07:30	0	2	15	4	0	21	0	20	125	15	0	160	0	9	5	8	0	22	0	14	120	22	0	156	0	359	359
07:45	0	1	17	6	0	24	0	46	108	6	0	160	0	13	9	3	0	25	0	7	110	38	2	155	2	364	366
Total	0	14	36	31	0	81	0	85	385	34	3	504	0	58	26	19	0	103	0	29	419	94	2	542	5	1230	1235
08:00	0	4	16	2	0	22	0	15	107	4	0	126	0	15	6	4	0	25	0	4	90	27	0	121	0	294	294
08:15	0	5	5	5	0	15	1	26	67	11	1	105	0	13	1	12	1	26	1	4	85	21	0	111	2	257	259
08:30	0	3	5	3	0	11	0	18	88	9	0	115	0	12	5	6	0	23	1	7	82	16	2	106	2	255	257
08:45	0	8	13	3	1	24	0	30	99	6	0	135	0	16	14	14	1	44	0	5	100	35	2	140	4	343	347
Total	0	20	39	13	1	72	1	89	361	30	1	481	0	56	26	36	2	118	2	20	357	99	4	478	8	1149	1157
09:00	0	4	15	4	0	23	0	27	88	6	0	121	0	26	9	7	1	42	0	7	89	27	0	123	1	309	310
09:15	0	10	12	4	0	26	0	41	87	8	0	136	0	23	11	27	1	61	1	4	73	29	1	107	2	330	332
09:30	0	5	7	3	0	15	0	35	82	4	0	121	0	22	7	15	0	44	0	1	76	32	0	109	0	289	289
09:45	0	5	16	7	0	28	0	33	99	8	1	140	0	19	5	16	0	40	0	2	86	42	0	130	1	338	339
Total	0	24	50	18	0	92	0	136	356	26	1	518	0	90	32	65	2	187	1	14	324	130	1	469	4	1266	1270
10:00	0	6	8	3	0	17	2	16	99	3	0	120	0	16	4	17	0	37	0	4	97	21	0	122	0	296	296
10:15	0	1	6	5	0	12	0	15	89	5	0	109	0	19	5	9	0	33	0	2	84	19	0	105	0	259	259
10:30	0	3	8	3	0	14	1	18	101	11	0	131	0	12	3	11	0	26	0	5	90	30	0	125	0	296	296
10:45	0	6	17	9	0	32	0	26	98	6	0	130	0	44	20	31	1	95	0	7	89	25	0	121	1	378	379
Total	0	16	39	20	0	75	3	75	387	25	0	490	0	91	32	68	1	191	0	18	360	95	0	473	1	1229	1230
11:00	0	5	9	1	1	15	0	15	93	4	1	112	0	16	8	12	0	36	0	5	94	13	0	112	2	275	277
11:15	0	4	10	7	0	21	0	20	89	4	0	113	0	36	13	19	0	68	0	3	96	16	0	115	0	317	317
11:30	0	2	14	5	0	21	0	37	120	2	0	159	0	16	7	18	1	41	1	4	99	31	1	135	2	356	358
11:45	0	3	21	6	0	30	1	40	102	10	1	153	0	29	16	23	0	68	1	8	88	45	0	142	1	393	394
Total	0	14	54	19	1	87	1	112	404	20	2	537	0	97	44	72	1	213	2	20	377	105	1	504	5	1341	1346
12:00	0	4	13	4	1	21	0	18	107	5	2	130	0	22	12	36	1	70	1	10	98	28	0	137	4	358	362



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2132
 Site Code :
 Start Date : 09/23/2021
 Page No : 3

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

Groups Printed- Cars + - Trucks

Start Time	Mississippi Blvd. Southbound						CSAH 1 Westbound						Mississippi Blvd. Northbound						CSAH 1 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	0	4	9	3	0	16	1	31	79	14	0	125	0	23	7	22	0	52	0	8	96	36	0	140	0	333	333
12:30	0	10	11	8	1	29	1	12	130	9	1	152	0	34	7	22	1	63	0	6	88	18	0	112	3	356	359
12:45	0	11	6	6	0	23	0	20	123	13	0	156	0	29	15	25	1	69	1	3	100	15	1	119	2	367	369
Total	0	29	39	21	2	89	2	81	439	41	3	563	0	108	41	105	3	254	2	27	382	97	1	508	9	1414	1423
13:00	0	6	4	6	0	16	0	12	118	7	2	137	0	25	16	28	1	69	0	4	104	32	0	140	3	362	365
13:15	0	4	5	5	2	14	2	18	111	3	0	134	0	38	23	27	1	88	0	4	93	24	0	121	3	357	360
13:30	0	4	7	3	0	14	0	24	121	9	0	154	0	29	16	21	0	66	0	4	104	21	0	129	0	363	363
13:45	0	1	15	12	0	28	1	28	148	11	0	188	0	47	18	30	0	95	1	9	115	28	0	153	0	464	464
Total	0	15	31	26	2	72	3	82	498	30	2	613	0	139	73	106	2	318	1	21	416	105	0	543	6	1546	1552
14:00	0	4	9	10	0	23	0	17	134	6	3	157	0	29	8	25	1	62	1	5	112	27	0	145	4	387	391
14:15	0	6	9	6	0	21	0	20	113	9	0	142	0	9	4	19	0	32	0	7	117	23	0	147	0	342	342
14:30	0	2	5	7	0	14	0	9	142	10	0	161	0	18	6	17	0	41	0	5	136	24	1	165	1	381	382
14:45	0	5	10	12	0	27	0	12	168	10	2	190	0	24	6	14	0	44	0	12	103	19	0	134	2	395	397
Total	0	17	33	35	0	85	0	58	557	35	5	650	0	80	24	75	1	179	1	29	468	93	1	591	7	1505	1512
15:00	0	6	3	8	0	17	1	14	152	9	1	176	0	16	3	16	0	35	1	8	151	13	0	173	1	401	402
15:15	0	4	7	8	0	19	0	9	155	8	2	172	0	23	14	23	0	60	0	4	164	18	0	186	2	437	439
15:30	0	4	10	5	0	19	0	13	176	10	0	199	0	18	8	12	1	38	0	12	176	30	3	218	4	474	478
15:45	0	12	9	7	1	28	0	23	200	14	1	237	0	29	5	17	0	51	0	7	159	24	1	190	3	506	509
Total	0	26	29	28	1	83	1	59	683	41	4	784	0	86	30	68	1	184	1	31	650	85	4	767	10	1818	1828
16:00	0	14	8	7	0	29	0	18	179	19	0	216	0	42	15	18	0	75	0	8	144	17	3	169	3	489	492
16:15	0	6	10	4	0	20	1	14	209	14	2	238	0	23	15	25	3	63	0	6	126	18	0	150	5	471	476
16:30	0	7	4	3	0	14	0	6	172	12	0	190	0	34	18	36	1	88	0	4	132	16	1	152	2	444	446
16:45	0	3	0	9	0	12	0	12	223	13	0	248	0	23	8	29	2	60	0	6	123	17	0	146	2	466	468
Total	0	30	22	23	0	75	1	50	783	58	2	892	0	122	56	108	6	286	0	24	525	68	4	617	12	1870	1882
17:00	0	8	8	7	0	23	0	10	159	17	0	186	0	17	8	21	0	46	0	8	132	19	1	159	1	414	415
17:15	0	6	9	4	1	19	0	7	182	6	0	195	0	18	10	17	0	45	0	10	115	15	0	140	1	399	400
17:30	0	7	9	9	0	25	1	18	171	6	0	196	0	17	14	9	0	40	0	4	132	17	0	153	0	414	414
17:45	0	5	10	13	0	28	1	26	145	15	0	187	0	19	5	7	0	31	0	7	97	22	0	126	0	372	372
Total	0	26	36	33	1	95	2	61	657	44	0	764	0	71	37	54	0	162	0	29	476	73	1	578	2	1599	1601
18:00	0	8	5	7	0	20	1	16	125	12	1	154	0	13	4	10	0	27	0	10	95	13	0	118	1	319	320
18:15	0	4	10	7	0	21	1	5	120	7	0	133	0	15	5	12	0	32	0	4	86	21	0	111	0	297	297



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2132
 Site Code :
 Start Date : 09/23/2021
 Page No : 4

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

Groups Printed- Cars + - Trucks

Start Time	Mississippi Blvd. Southbound						CSAH 1 Westbound						Mississippi Blvd. Northbound						CSAH 1 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	2	9	2	0	13	1	9	86	7	1	103	0	20	2	12	2	34	1	10	82	21	1	114	4	264	268			
18:45	0	4	4	4	0	12	0	10	88	6	0	104	0	9	4	5	1	18	0	5	61	16	0	82	1	216	217			
Total	0	18	28	20	0	66	3	40	419	32	2	494	0	57	15	39	3	111	1	29	324	71	1	425	6	1096	1102			
19:00	0	4	5	5	0	14	1	9	66	8	3	84	0	18	2	7	0	27	0	8	60	10	0	78	3	203	206			
19:15	0	1	4	3	0	8	0	6	67	7	2	80	0	4	3	4	1	11	0	7	74	11	2	92	5	191	196			
19:30	0	1	7	1	0	9	0	10	56	5	1	71	0	19	8	16	0	43	0	4	56	17	0	77	1	200	201			
19:45	0	3	6	8	0	17	0	4	51	7	0	62	0	13	12	9	0	34	0	5	48	22	0	75	0	188	188			
Total	0	9	22	17	0	48	1	29	240	27	6	297	0	54	25	36	1	115	0	24	238	60	2	322	9	782	791			
20:00	0	2	4	2	0	8	0	7	68	12	0	87	0	8	8	14	0	30	0	9	50	10	0	69	0	194	194			
20:15	0	3	4	3	0	10	1	5	75	4	0	85	0	13	9	13	0	35	0	4	61	8	0	73	0	203	203			
20:30	0	2	2	6	0	10	0	7	46	4	2	57	0	7	1	8	0	16	0	5	38	9	0	52	2	135	137			
20:45	0	5	1	6	0	12	1	8	36	8	1	53	0	7	2	5	0	14	0	7	30	7	0	44	1	123	124			
Total	0	12	11	17	0	40	2	27	225	28	3	282	0	35	20	40	0	95	0	25	179	34	0	238	3	655	658			
21:00	0	0	8	3	1	11	0	5	42	5	1	52	0	5	7	4	0	16	1	1	39	9	0	50	2	129	131			
21:15	0	4	1	0	0	5	0	4	43	6	0	53	0	4	3	2	0	9	0	1	27	9	0	37	0	104	104			
21:30	0	2	5	4	0	11	0	2	40	2	0	44	0	6	4	3	0	13	0	1	33	4	0	38	0	106	106			
21:45	0	8	3	7	2	18	1	5	34	5	0	45	0	2	2	1	0	5	0	3	24	5	0	32	2	100	102			
Total	0	14	17	14	3	45	1	16	159	18	1	194	0	17	16	10	0	43	1	6	123	27	0	157	4	439	443			
Grand Total	0	318	505	364	15	1187	22	1048	6947	505	35	8522	1	1228	511	922	24	2662	13	359	6150	1286	24	7808	98	20179	20277			
Apprch %	0	26.8	42.5	30.7			0.3	12.3	81.5	5.9			0	46.1	19.2	34.6			0.2	4.6	78.8	16.5								
Total %	0	1.6	2.5	1.8		5.9	0.1	5.2	34.4	2.5		42.2	0	6.1	2.5	4.6		13.2	0.1	1.8	30.5	6.4		38.7	0.5	99.5				
Cars +	0	310	494	346		1165	22	1026	6683	488		8254	1	1195	504	905		2629	13	332	5921	1244		7534	0	0	19582			
% Cars +	0	97.5	97.8	95.1	100	96.9	100	97.9	96.2	96.6	100	96.5	100	97.3	98.6	98.2	100	97.9	100	92.5	96.3	96.7	100	96.2	0	0	96.6			
Trucks	0	8	11	18		37	0	22	264	17		303	0	33	7	17		57	0	27	229	42		298	0	0	695			
% Trucks	0	2.5	2.2	4.9	0	3.1	0	2.1	3.8	3.4	0	3.5	0	2.7	1.4	1.8	0	2.1	0	7.5	3.7	3.3	0	3.8	0	0	3.4			



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2132
 Site Code :
 Start Date : 09/23/2021
 Page No : 5

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

Start Time	Mississippi Blvd. Southbound					CSAH 1 Westbound					Mississippi Blvd. Northbound					CSAH 1 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	3	3	13	19	0	16	79	7	102	0	21	8	3	32	0	4	91	22	117	270
07:30	0	2	15	4	21	0	20	125	15	160	0	9	5	8	22	0	14	120	22	156	359
07:45	0	1	17	6	24	0	46	108	6	160	0	13	9	3	25	0	7	110	38	155	364
08:00	0	4	16	2	22	0	15	107	4	126	0	15	6	4	25	0	4	90	27	121	294
Total Volume	0	10	51	25	86	0	97	419	32	548	0	58	28	18	104	0	29	411	109	549	1287
% App. Total	0	11.6	59.3	29.1		0	17.7	76.5	5.8		0	55.8	26.9	17.3		0	5.3	74.9	19.9		
PHF	.000	.625	.750	.481	.896	.000	.527	.838	.533	.856	.000	.690	.778	.563	.813	.000	.518	.856	.717	.880	.884

Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 13:00																					
13:00	0	6	4	6	16	0	12	118	7	137	0	25	16	28	69	0	4	104	32	140	362
13:15	0	4	5	5	14	2	18	111	3	134	0	38	23	27	88	0	4	93	24	121	357
13:30	0	4	7	3	14	0	24	121	9	154	0	29	16	21	66	0	4	104	21	129	363
13:45	0	1	15	12	28	1	28	148	11	188	0	47	18	30	95	1	9	115	28	153	464
Total Volume	0	15	31	26	72	3	82	498	30	613	0	139	73	106	318	1	21	416	105	543	1546
% App. Total	0	20.8	43.1	36.1		0.5	13.4	81.2	4.9		0	43.7	23	33.3		0.2	3.9	76.6	19.3		
PHF	.000	.625	.517	.542	.643	.375	.732	.841	.682	.815	.000	.739	.793	.883	.837	.250	.583	.904	.820	.887	.833

Peak Hour Analysis From 14:00 to 21:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 15:30																					
15:30	0	4	10	5	19	0	13	176	10	199	0	18	8	12	38	0	12	176	30	218	474
15:45	0	12	9	7	28	0	23	200	14	237	0	29	5	17	51	0	7	159	24	190	506
16:00	0	14	8	7	29	0	18	179	19	216	0	42	15	18	75	0	8	144	17	169	489
16:15	0	6	10	4	20	1	14	209	14	238	0	23	15	25	63	0	6	126	18	150	471
Total Volume	0	36	37	23	96	1	68	764	57	890	0	112	43	72	227	0	33	605	89	727	1940
% App. Total	0	37.5	38.5	24		0.1	7.6	85.8	6.4		0	49.3	18.9	31.7		0	4.5	83.2	12.2		
PHF	.000	.643	.925	.821	.828	.250	.739	.914	.750	.935	.000	.667	.717	.720	.757	.000	.688	.859	.742	.834	.958



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2132
 Site Code :
 Start Date : 09/23/2021
 Page No : 1

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

Groups Printed- Trucks

Start Time	Mississippi Blvd. Southbound					CSAH 1 Westbound					Mississippi Blvd. Northbound					CSAH 1 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	1	0	1	1
00:15	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
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
01:00	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
01:15	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	2
01:30	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	2	0	2	0	0	0	0	0	0	0	1	0	1	3
Total	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	2	0	2	6
02:00	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
02:15	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02:30	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	0	2	3
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	0	0	1	1	0	0	2	0	2	0	0	0	0	0	0	1	2	0	3	6
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
03:45	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	3	0	3	4
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
04:15	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	2	0	2	0	0	0	0	0	0	0	0	0	0	2
04:45	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	2	0	2	0	0	0	0	0	0	0	1	0	1	3
05:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	2	3
05:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2
05:30	0	0	1	0	1	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	3
05:45	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	2	1	0	3	0	0	0	0	0	0	0	3	1	4	8
06:00	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	3
06:15	0	0	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	5	1	6	8
06:30	0	0	0	0	0	0	0	3	1	4	0	2	1	0	3	0	0	2	0	2	9
06:45	0	0	0	1	1	0	2	1	0	3	0	1	0	1	2	0	0	4	0	4	10
Total	0	1	0	1	2	0	3	4	2	9	0	3	1	1	5	0	0	13	1	14	30
07:00	0	0	1	0	1	0	2	1	0	3	0	1	0	0	1	0	0	3	0	3	8
07:15	0	0	0	1	1	0	1	2	1	4	0	1	0	0	1	0	0	5	0	5	11
07:30	0	0	1	0	1	0	0	4	2	6	0	1	0	1	2	0	3	5	1	9	18
07:45	0	0	0	0	0	0	0	8	2	10	0	0	0	0	0	0	3	6	0	9	19
Total	0	0	2	1	3	0	3	15	5	23	0	3	0	1	4	0	6	19	1	26	56
08:00	0	0	0	0	0	0	0	8	1	9	0	0	0	0	0	0	0	5	1	6	15
08:15	0	0	0	0	0	0	0	3	1	4	0	3	0	0	3	0	0	4	2	6	13
08:30	0	0	0	0	0	0	2	5	0	7	0	1	0	3	4	0	0	3	0	3	14
08:45	0	0	0	0	0	0	1	4	1	6	0	1	1	0	2	0	1	7	4	12	20
Total	0	0	0	0	0	0	3	20	3	26	0	5	1	3	9	0	1	19	7	27	62



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2132
 Site Code :
 Start Date : 09/23/2021
 Page No : 2

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

Groups Printed- Trucks

Start Time	Mississippi Blvd. Southbound					CSAH 1 Westbound					Mississippi Blvd. Northbound					CSAH 1 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	0	0	0	0	0	2	1	3	0	0	1	1	2	0	1	6	0	7	12
09:15	0	0	0	0	0	0	1	5	0	6	0	2	0	0	2	0	1	3	2	6	14
09:30	0	0	0	0	0	0	0	8	0	8	0	0	0	0	0	0	0	4	0	4	12
09:45	0	1	0	2	3	0	0	6	0	6	0	0	0	0	0	0	2	6	0	8	17
Total	0	1	0	2	3	0	1	21	1	23	0	2	1	1	4	0	4	19	2	25	55
10:00	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0	0	0	2	0	2	9
10:15	0	0	0	0	0	0	0	5	0	5	0	1	0	0	1	0	0	5	1	6	12
10:30	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	6	0	6	11
10:45	0	0	0	0	0	0	1	7	0	8	0	0	0	0	0	0	1	9	2	12	20
Total	0	0	0	0	0	0	1	24	0	25	0	1	0	0	1	0	1	22	3	26	52
11:00	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	4	2	6	10
11:15	0	0	0	0	0	0	2	5	0	7	0	1	0	2	3	0	0	2	1	3	13
11:30	0	0	1	1	2	0	0	8	0	8	0	0	0	1	1	0	0	4	1	5	16
11:45	0	0	0	1	1	0	1	3	1	5	0	0	0	1	1	0	1	3	2	6	13
Total	0	0	1	2	3	0	3	20	1	24	0	1	0	4	5	0	1	13	6	20	52
12:00	0	0	0	0	0	0	1	7	0	8	0	1	1	1	3	0	1	6	1	8	19
12:15	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	2	3	1	6	11
12:30	0	2	1	0	3	0	0	8	0	8	0	1	0	0	1	0	0	4	0	4	16
12:45	0	0	0	1	1	0	0	8	0	8	0	0	0	0	0	0	0	3	0	3	12
Total	0	2	1	1	4	0	1	28	0	29	0	2	1	1	4	0	3	16	2	21	58
13:00	0	0	0	0	0	0	1	8	0	9	0	1	0	0	1	0	0	4	1	5	15
13:15	0	0	0	1	1	0	1	1	0	2	0	0	0	1	1	0	1	1	3	5	9
13:30	0	2	0	0	2	0	0	4	0	4	0	1	0	1	2	0	2	6	0	8	16
13:45	0	0	0	1	1	0	0	11	0	11	0	0	0	0	0	0	2	15	0	17	29
Total	0	2	0	2	4	0	2	24	0	26	0	2	0	2	4	0	5	26	4	35	69
14:00	0	0	1	1	2	0	0	8	1	9	0	2	0	0	2	0	0	8	0	8	21
14:15	0	0	0	0	0	0	0	4	0	4	0	0	1	0	1	0	0	2	1	3	8
14:30	0	0	1	1	2	0	0	3	1	4	0	2	0	0	2	0	0	3	2	5	13
14:45	0	0	0	0	0	0	1	4	0	5	0	2	0	0	2	0	1	7	0	8	15
Total	0	0	2	2	4	0	1	19	2	22	0	6	1	0	7	0	1	20	3	24	57
15:00	0	0	1	0	1	0	1	2	0	3	0	0	0	0	0	0	0	2	0	2	6
15:15	0	0	1	2	3	0	0	1	0	1	0	0	1	1	2	0	1	6	0	7	13
15:30	0	0	1	0	1	0	0	4	0	4	0	1	0	0	1	0	0	4	3	7	13
15:45	0	0	1	0	1	0	0	5	0	5	0	2	0	0	2	0	0	3	1	4	12
Total	0	0	4	2	6	0	1	12	0	13	0	3	1	1	5	0	1	15	4	20	44
16:00	0	1	0	1	2	0	1	10	1	12	0	0	1	0	1	0	1	1	0	2	17
16:15	0	0	0	1	1	0	0	6	0	6	0	0	0	0	0	0	0	1	0	1	8
16:30	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0	0	0	4	1	5	12
16:45	0	0	0	2	2	0	0	12	0	12	0	1	0	1	2	0	0	3	0	3	19
Total	0	1	0	4	5	0	1	35	1	37	0	1	1	1	3	0	1	9	1	11	56
17:00	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	4	0	4	8
17:15	0	0	0	0	0	0	0	4	0	4	0	0	0	1	1	0	0	3	0	3	8
17:30	0	0	0	0	0	0	0	4	0	4	0	1	0	1	2	0	0	4	2	6	12
17:45	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	2	0	2	4
Total	0	0	0	0	0	0	0	13	1	14	0	1	0	2	3	0	0	13	2	15	32
18:00	0	1	0	0	1	0	0	3	0	3	0	0	0	0	0	0	1	1	0	2	6
18:15	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	1	0	1	4



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

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

File Name : TMC 2132
 Site Code :
 Start Date : 09/23/2021
 Page No : 3

Groups Printed- Trucks

Start Time	Mississippi Blvd. Southbound					CSAH 1 Westbound					Mississippi Blvd. Northbound					CSAH 1 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	1	0	1	0	0	0	0	0	0	0	1	1	2	3
18:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	1	0	0	1	0	0	7	0	7	0	0	0	0	0	0	1	4	1	6	14
19:00	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	3	0	3	4
19:15	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	3
19:30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	2	3	4
19:45	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	0	2	3
Total	0	0	0	0	0	0	0	5	0	5	0	1	0	0	1	0	1	5	2	8	14
20:00	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
20:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
20:30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
20:45	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	1	1	2	0	1	0	0	1	0	0	0	1	1	4
21:00	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2
21:15	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	2
21:30	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1	2	3
21:45	0	0	0	0	0	0	0	2	0	2	0	1	0	0	1	0	0	1	0	1	4
Total	0	0	0	0	0	0	0	6	0	6	0	1	0	0	1	0	0	3	1	4	11
Grand Total	0	8	11	18	37	0	22	264	17	303	0	33	7	17	57	0	27	229	42	298	695
Apprch %	0	21.6	29.7	48.6		0	7.3	87.1	5.6		0	57.9	12.3	29.8		0	9.1	76.8	14.1		
Total %	0	1.2	1.6	2.6	5.3	0	3.2	38	2.4	43.6	0	4.7	1	2.4	8.2	0	3.9	32.9	6	42.9	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2132

Study Date : 10/27/2021

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 1

Number of Lanes : 2+

Total Approach Volume: 7,808

Westbound: CSAH 1

Number of Lanes :2+

Total Approach Volume: 8,522

Minor Street Approaches

Northbound: Mississippi Blvd.

Number of Lanes :1

Total Approach Volume: 2,662

Southbound: Mississippi Blvd.

Number of Lanes :1

Total Approach Volume: 1,187

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 12 hours, 8 are needed

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

Required volumes reached for 13 hours, 8 are needed

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

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

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

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

Number of hours (14) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (45) volumes exceed minimum >= required (1). Delay data not evaluated.

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

Volumes exceed minimums for at least one hour period.

Warrant 4 - Pedestrian Volumes.....Not Evaluated

Warrant 5 - School Crossing.....Not Evaluated

Warrant 6 - Coordinated Signal System.....Not Evaluated

Warrant 7 - Crash Experience.....Not Evaluated

Warrant 8 - Roadway Network.....Not Evaluated

Warrant 9 - Intersection Near a Grade Crossing.....Not Evaluated

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2132

Study Date : 10/27/2021

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

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**

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **420**
 Veh/Hr Minor = **105**

Time	Major Road CSAH 1				Total	Minor Road Mississippi Blvd.		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:00 - 16:00	767	+	784	=	1551	184	83	Yes
16:00 - 17:00	617	+	892	=	1509	286	75	Yes
17:00 - 18:00	578	+	764	=	1342	162	95	Yes
14:00 - 15:00	591	+	650	=	1241	179	85	Yes
13:00 - 14:00	543	+	613	=	1156	318	72	Yes
12:00 - 13:00	508	+	563	=	1071	254	89	Yes
11:00 - 12:00	504	+	537	=	1041	213	87	Yes
09:00 - 10:00	469	+	518	=	987	187	92	Yes
10:00 - 11:00	473	+	490	=	963	191	75	Yes
08:00 - 09:00	478	+	481	=	959	118	72	Yes
18:00 - 19:00	425	+	494	=	919	111	66	Yes
19:00 - 20:00	322	+	297	=	619	115	48	Yes
07:15 - 08:15	549	+	548	=	1097	104	86	No
07:30 - 08:30	543	+	551	=	1094	98	82	No
07:00 - 08:00	542	+	504	=	1046	103	81	No
07:45 - 08:45	493	+	506	=	999	99	72	No
06:45 - 07:45	468	+	436	=	904	100	76	No
06:30 - 07:30	389	+	347	=	736	94	65	No
06:15 - 07:15	341	+	289	=	630	75	52	No
20:00 - 21:00	238	+	282	=	520	95	40	No
06:00 - 07:00	268	+	244	=	512	56	41	No
20:15 - 21:15	219	+	247	=	466	81	43	No
05:45 - 06:45	237	+	172	=	409	45	27	No
20:30 - 21:30	183	+	215	=	398	55	38	No
20:45 - 21:45	169		202		371	52	39	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2132

Study Date : 10/27/2021

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

13 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				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	CSAH 1					Mississippi Blvd.		
15:15 - 16:15	763	+	824	=	1587	224	95	Yes
16:15 - 17:15	607	+	862	=	1469	257	69	Yes
14:15 - 15:15	619	+	669	=	1288	152	79	Yes
17:15 - 18:15	537	+	732	=	1269	143	92	Yes
13:15 - 14:15	548	+	633	=	1181	311	79	Yes
07:15 - 08:15	549	+	548	=	1097	104	86	Yes
11:15 - 12:15	529	+	555	=	1084	247	93	Yes
12:15 - 13:15	511	+	570	=	1081	253	84	Yes
09:15 - 10:15	468	+	517	=	985	182	86	Yes
08:15 - 09:15	480	+	476	=	956	135	73	Yes
10:15 - 11:15	463	+	482	=	945	190	73	Yes
18:15 - 19:15	385	+	424	=	809	111	60	Yes
06:15 - 07:15	341	+	289	=	630	75	52	Yes
19:15 - 20:15	313	+	300	=	613	118	42	No
19:30 - 20:30	294	+	305	=	599	142	44	No
19:45 - 20:45	269	+	291	=	560	115	45	No
20:00 - 21:00	238	+	282	=	520	95	40	No
06:00 - 07:00	268	+	244	=	512	56	41	No
20:15 - 21:15	219	+	247	=	466	81	43	No
05:45 - 06:45	237	+	172	=	409	45	27	No
20:30 - 21:30	183	+	215	=	398	55	38	No
20:45 - 21:45	169	+	202	=	371	52	39	No
21:00 - 22:00	157	+	194	=	351	43	45	No
05:30 - 06:30	211	+	129	=	340	32	23	No
05:15 - 06:15	173		102		275	24	26	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2132

Study Date : 10/27/2021

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

14 hours meet 1A minimums.
15 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 1

Minor Road

Mississippi Blvd.

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
15:30 - 16:30	727	+	890	=	1617	227	96	Yes
16:30 - 17:30	597	+	819	=	1416	239	68	Yes
14:30 - 15:30	658	+	699	=	1357	180	77	Yes
13:30 - 14:30	574	+	641	=	1215	255	86	Yes
17:30 - 18:30	508	+	670	=	1178	130	94	Yes
11:30 - 12:30	554	+	567	=	1121	231	88	Yes
07:30 - 08:30	543	+	551	=	1094	98	82	Yes
12:30 - 13:30	492	+	579	=	1071	289	82	Yes
08:30 - 09:30	476	+	507	=	983	170	84	Yes
10:30 - 11:30	473	+	486	=	959	225	82	Yes
09:30 - 10:30	466	+	490	=	956	154	72	Yes
18:30 - 19:30	366	+	371	=	737	90	47	Yes

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
15:00 - 16:00	767	+	784	=	1551	184	83	Yes
16:00 - 17:00	617	+	892	=	1509	286	75	Yes
17:00 - 18:00	578	+	764	=	1342	162	95	Yes
14:00 - 15:00	591	+	650	=	1241	179	85	Yes
13:00 - 14:00	543	+	613	=	1156	318	72	Yes
12:00 - 13:00	508	+	563	=	1071	254	89	Yes
07:00 - 08:00	542	+	504	=	1046	103	81	Yes
11:00 - 12:00	504	+	537	=	1041	213	87	Yes
09:00 - 10:00	469	+	518	=	987	187	92	Yes
10:00 - 11:00	473	+	490	=	963	191	75	Yes
08:00 - 09:00	478	+	481	=	959	118	72	Yes
18:00 - 19:00	425	+	494	=	919	111	66	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2132

Study Date : 10/27/2021

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.

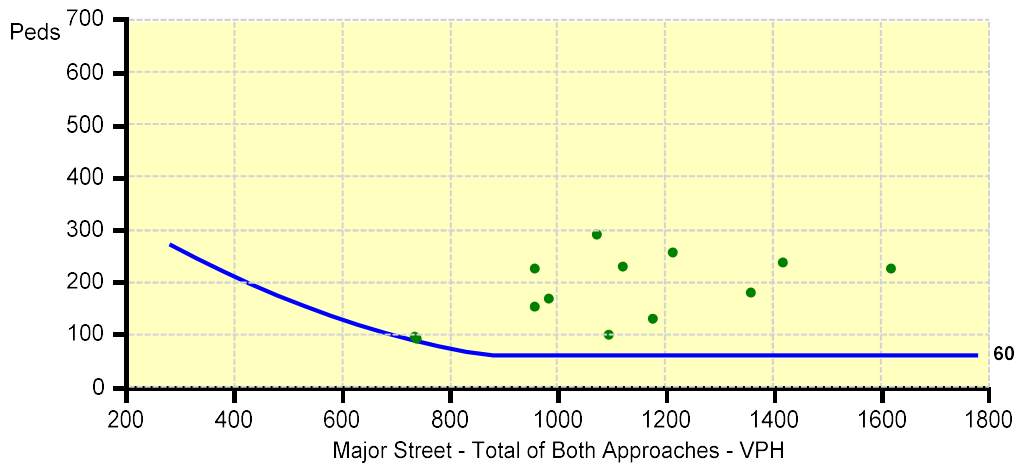
Summary

14 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 1				Total	Minor Road Mississippi Blvd.		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:30 - 16:30	727	+	890	=	1617	227	96	Yes
16:30 - 17:30	597	+	819	=	1416	239	68	Yes
14:30 - 15:30	658	+	699	=	1357	180	77	Yes
13:30 - 14:30	574	+	641	=	1215	255	86	Yes
17:30 - 18:30	508	+	670	=	1178	130	94	Yes
11:30 - 12:30	554	+	567	=	1121	231	88	Yes
07:30 - 08:30	543	+	551	=	1094	98	82	Yes
12:30 - 13:30	492	+	579	=	1071	289	82	Yes
08:30 - 09:30	476	+	507	=	983	170	84	Yes
10:30 - 11:30	473	+	486	=	959	225	82	Yes
09:30 - 10:30	466	+	490	=	956	154	72	Yes
							47	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2132

Study Date : 10/27/2021

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

42 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 1				=	Total	Minor Road Mississippi Blvd.		Met?
	Major EB	+	Major WB				Minor NB	Minor SB	
15:30 - 16:30	727	+	890	=	1617	227	96	Yes	
15:15 - 16:15	763	+	824	=	1587	224	95	Yes	
15:00 - 16:00	767	+	784	=	1551	184	83	Yes	
15:45 - 16:45	661	+	881	=	1542	277	91	Yes	
16:00 - 17:00	617	+	892	=	1509	286	75	Yes	
16:15 - 17:15	607	+	862	=	1469	257	69	Yes	
14:45 - 15:45	711	+	737	=	1448	177	82	Yes	
16:45 - 17:45	598	+	825	=	1423	191	79	Yes	
16:30 - 17:30	597	+	819	=	1416	239	68	Yes	
14:30 - 15:30	658	+	699	=	1357	180	77	Yes	
17:00 - 18:00	578	+	764	=	1342	162	95	Yes	
							79	Yes	

