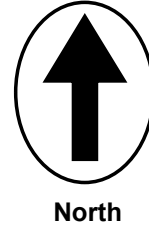


Date : 06/02/22

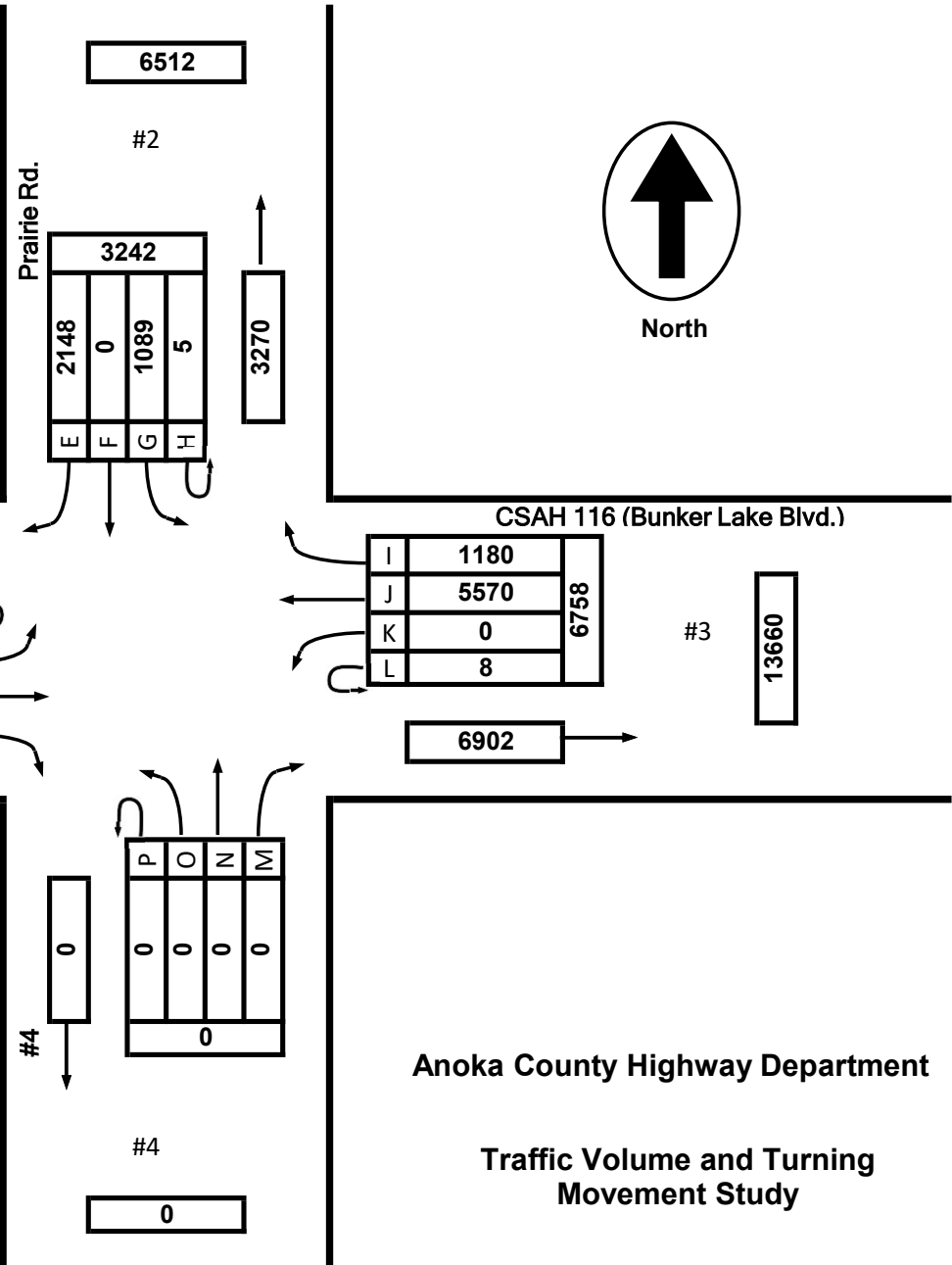
Count Number : TMC 2205

Location : CSAH 116 (Bunker Lake Blvd.)
@ Prairie Rd.

Collection Period : 24 HR



North



CSAH 116 (Bunker Lake Blvd.)

CSAH 116 (Bunker Lake Blvd.)

EXISTING LANES OF APPROACH

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

Anoka County Highway Department

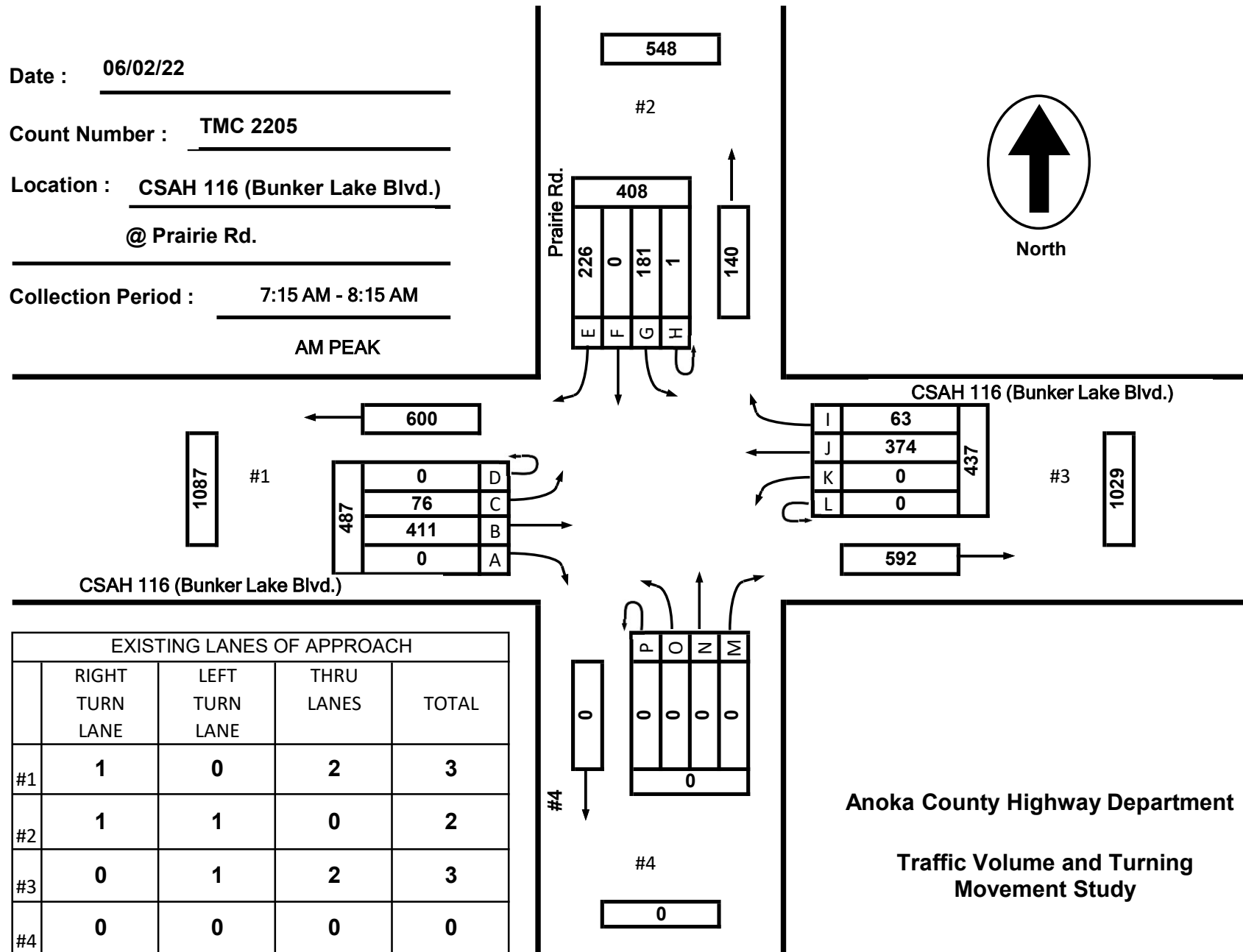
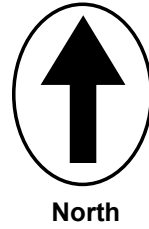
Traffic Volume and Turning Movement Study

Date : 06/02/22

Count Number : TMC 2205

Location : CSAH 116 (Bunker Lake Blvd.)
@ Prairie Rd.

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



CSAH 116 (Bunker Lake Blvd.)

CSAH 116 (Bunker Lake Blvd.)

EXISTING LANES OF APPROACH

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

Anoka County Highway Department

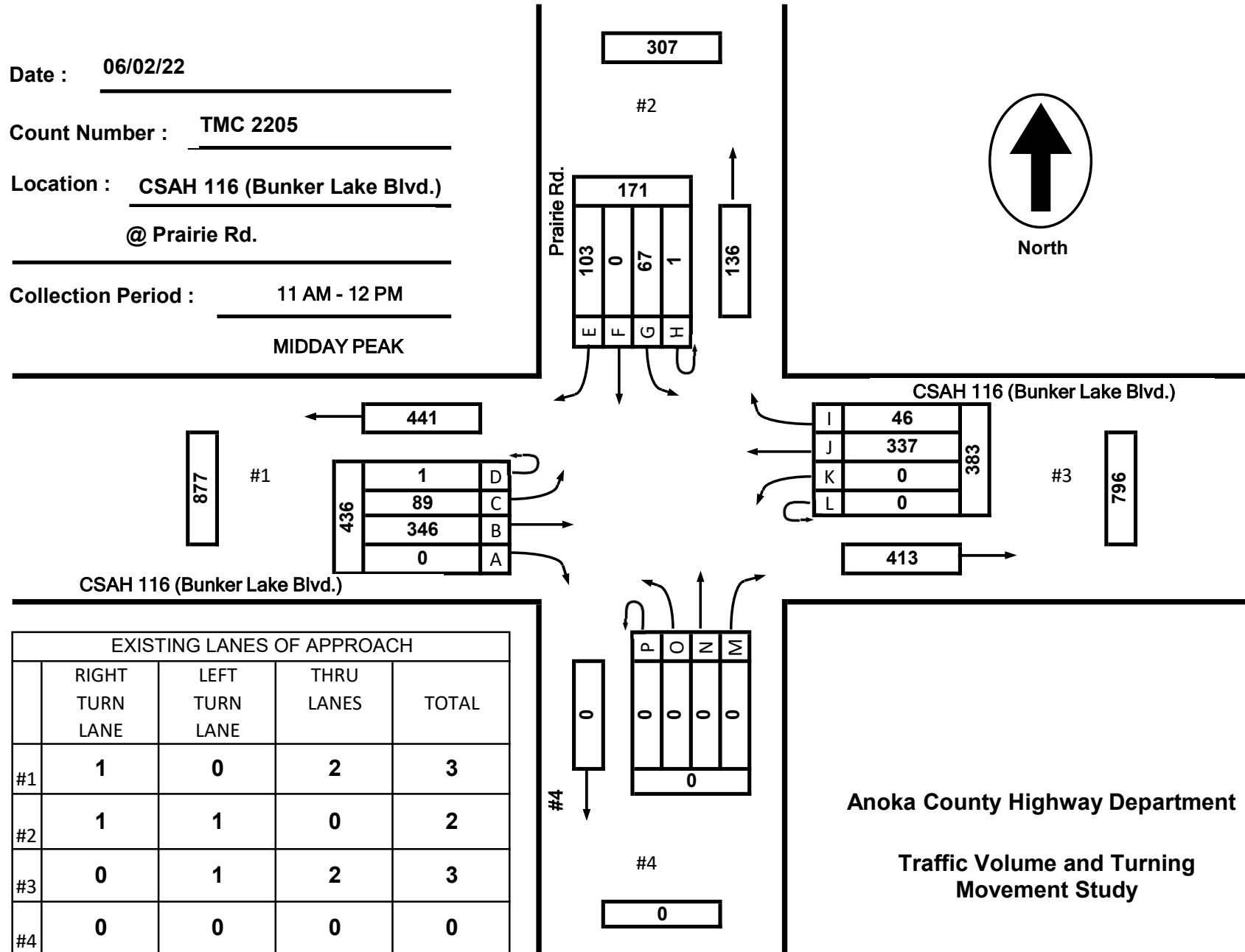
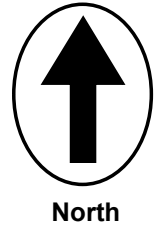
Traffic Volume and Turning Movement Study

Date : 06/02/22

Count Number : TMC 2205

Location : CSAH 116 (Bunker Lake Blvd.)
@ Prairie Rd.

Collection Period : 11 AM - 12 PM
MIDDAY PEAK



CSAH 116 (Bunker Lake Blvd.)

CSAH 116 (Bunker Lake Blvd.)

EXISTING LANES OF APPROACH

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

Anoka County Highway Department

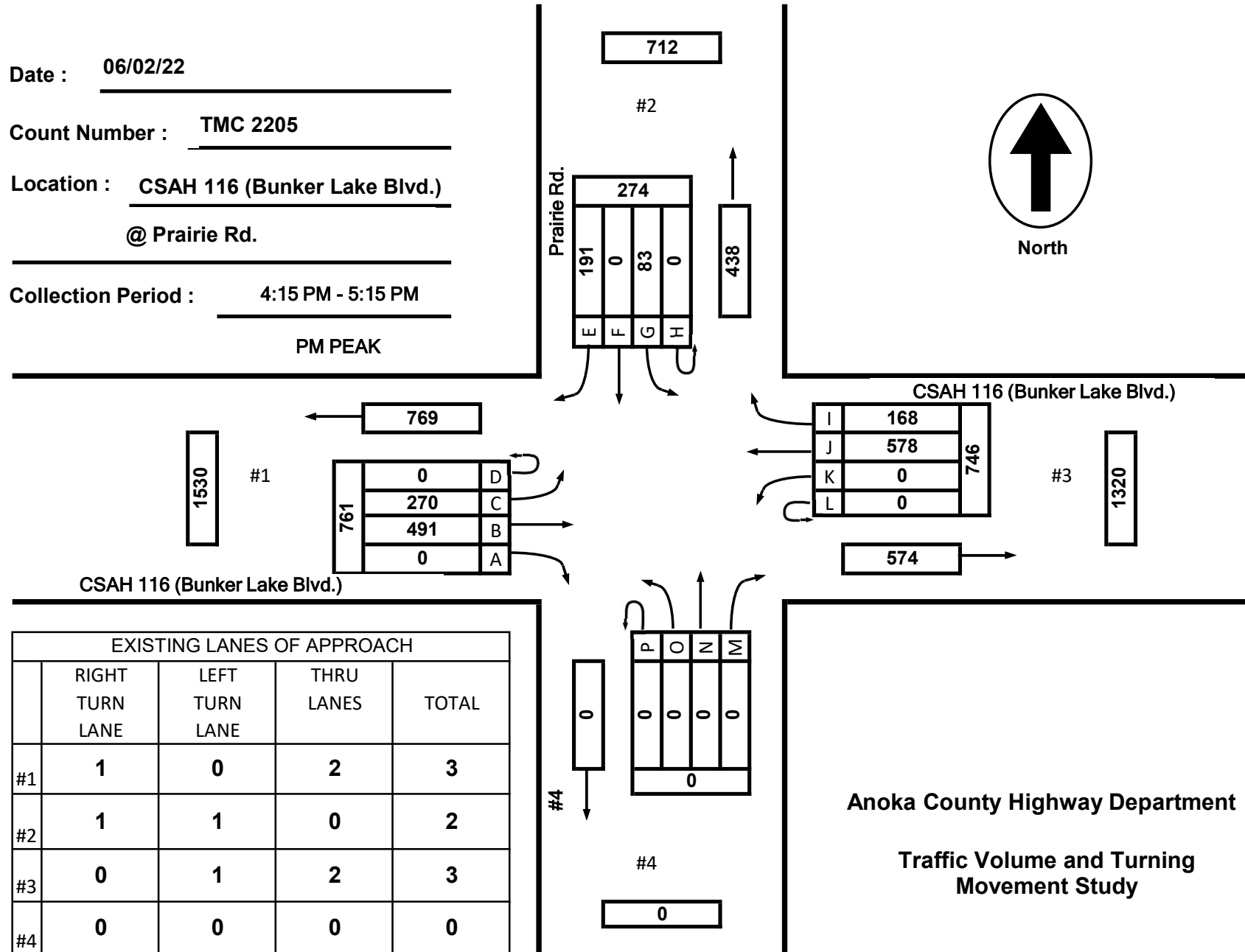
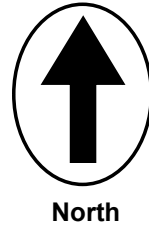
Traffic Volume and Turning Movement Study

Date : 06/02/22

Count Number : TMC 2205

Location : CSAH 116 (Bunker Lake Blvd.)
@ Prairie Rd.

Collection Period : 4:15 PM - 5:15 PM
PM PEAK



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

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 2205
 Site Code :
 Start Date : 06/02/2022
 Page No : 1

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

Groups Printed- Cars + - Trucks

Start Time	Prairie Rd. Southbound						CSAH 116 (Bunker Lake Blvd.) Westbound						Northbound						CSAH 116 (Bunker Lake Blvd.) 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	1	0	2	0	0	3	1	3	0	0	0	4	0	0	0	0	0	0	0	5	0	0	0	5	0	12	12
00:15	3	0	0	0	0	3	0	4	0	0	0	4	0	0	0	0	0	0	0	5	2	0	0	7	0	14	14
00:30	0	0	1	0	0	1	0	3	0	0	0	3	0	0	0	0	0	0	0	4	2	0	0	6	0	10	10
00:45	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	3	0	4	4
Total	4	0	3	0	0	7	1	11	0	0	0	12	0	0	0	0	0	0	17	4	0	0	21	0	40	40	
01:00	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	3	2	0	0	5	0	7	7
01:15	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	0	4	4	0	0	8	0	10	10
01:30	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	2	2	0	0	4	0	6	6
01:45	0	0	1	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0	0	2	1	0	0	3	0	6	6
Total	0	0	1	0	0	1	2	6	0	0	0	8	0	0	0	0	0	0	11	9	0	0	20	0	29	29	
02:00	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	4	1	0	0	5	0	7	7
02:15	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	0	3	3
02:30	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	1	1	0	0	2	0	5	5
02:45	0	0	1	0	0	1	0	2	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	2	0	5	5
Total	1	0	1	0	0	2	1	6	0	0	0	7	0	0	0	0	0	0	9	2	0	0	11	0	20	20	
03:00	2	0	1	0	0	3	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	0	6	6
03:15	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	1	1	0	0	2	0	4	4
03:30	1	0	0	0	0	1	0	4	0	0	0	4	0	0	0	0	0	0	0	1	1	0	0	2	0	7	7
03:45	1	0	1	0	0	2	0	6	0	0	0	6	0	0	0	0	0	0	0	3	0	0	0	3	0	11	11
Total	4	0	2	0	0	6	0	13	0	0	0	13	0	0	0	0	0	0	7	2	0	0	9	0	28	28	
04:00	3	0	1	0	0	4	0	4	0	0	0	4	0	0	0	0	0	0	0	4	1	0	0	5	0	13	13
04:15	5	0	4	0	0	9	0	6	0	0	0	6	0	0	0	0	0	0	0	4	0	0	0	4	0	19	19
04:30	9	0	3	0	0	12	0	7	0	0	0	7	0	0	0	0	0	0	0	12	1	0	0	13	0	32	32
04:45	14	0	4	0	0	18	0	9	0	0	0	9	0	0	0	0	0	0	0	14	3	0	0	17	0	44	44
Total	31	0	12	0	0	43	0	26	0	0	0	26	0	0	0	0	0	0	34	5	0	0	39	0	108	108	
05:00	11	0	6	0	0	17	1	13	0	0	0	14	0	0	0	0	0	0	0	7	0	0	0	7	0	38	38
05:15	15	0	6	0	0	21	0	11	0	0	0	11	0	0	0	0	0	0	0	14	1	0	0	15	0	47	47
05:30	32	0	11	0	2	43	2	27	0	0	0	29	0	0	0	0	0	0	0	33	2	0	2	35	4	107	111
05:45	26	0	10	0	1	36	2	31	0	0	0	33	0	0	0	0	0	0	0	42	3	0	0	45	1	114	115
Total	84	0	33	0	3	117	5	82	0	0	0	87	0	0	0	0	0	0	96	6	0	2	102	5	306	311	



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2205
 Site Code :
 Start Date : 06/02/2022
 Page No : 2

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

Groups Printed- Cars + - Trucks

Start Time	Prairie Rd. Southbound						CSAH 116 (Bunker Lake Blvd.) Westbound						Northbound						CSAH 116 (Bunker Lake Blvd.) 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	24	0	13	0	0	37	4	35	0	0	0	39	0	0	0	0	0	0	0	46	4	0	0	50	0	126	126
06:15	40	0	12	0	0	52	0	48	0	0	0	48	0	0	0	0	0	0	0	58	15	0	1	73	1	173	174
06:30	44	0	23	0	1	67	5	44	0	0	0	49	0	0	0	0	0	0	0	74	11	0	0	85	1	201	202
06:45	50	0	26	0	0	76	5	67	0	0	0	72	0	0	0	0	0	0	0	93	12	0	0	105	0	253	253
Total	158	0	74	0	1	232	14	194	0	0	0	208	0	0	0	0	0	0	0	271	42	0	1	313	2	753	755
07:00	56	0	37	0	0	93	4	72	0	0	0	76	0	0	0	0	0	0	0	92	8	0	1	100	1	269	270
07:15	59	0	57	0	0	116	12	75	0	0	0	87	0	0	0	0	0	0	0	80	15	0	0	95	0	298	298
07:30	64	0	53	1	1	118	15	108	0	0	0	123	0	0	0	0	0	0	0	133	19	0	0	152	1	393	394
07:45	56	0	39	0	0	95	19	119	0	0	0	138	0	0	0	0	0	0	0	117	21	0	1	138	1	371	372
Total	235	0	186	1	1	422	50	374	0	0	0	424	0	0	0	0	0	0	0	422	63	0	2	485	3	1331	1334
08:00	47	0	32	0	0	79	17	72	0	0	0	89	0	0	0	0	0	0	0	81	21	0	0	102	0	270	270
08:15	36	0	16	0	1	52	9	77	0	0	0	86	0	0	0	0	0	0	0	89	16	2	1	107	2	245	247
08:30	39	0	14	0	1	53	9	68	0	0	0	77	0	0	0	0	0	0	0	83	19	0	0	102	1	232	233
08:45	34	0	13	1	0	48	13	52	0	0	0	65	0	0	0	0	0	0	0	70	24	0	0	94	0	207	207
Total	156	0	75	1	2	232	48	269	0	0	0	317	0	0	0	0	0	0	0	323	80	2	1	405	3	954	957
09:00	35	0	15	0	1	50	17	62	0	0	0	79	0	0	0	0	0	0	0	73	20	0	3	93	4	222	226
09:15	41	0	8	0	1	49	7	70	0	1	0	78	0	0	0	0	0	0	0	74	16	0	1	90	2	217	219
09:30	24	0	15	0	1	39	19	71	0	0	0	90	0	0	0	0	0	0	0	59	12	0	0	71	1	200	201
09:45	37	0	6	0	2	43	11	67	0	0	0	78	0	0	0	0	0	0	0	76	24	0	2	100	4	221	225
Total	137	0	44	0	5	181	54	270	0	1	0	325	0	0	0	0	0	0	0	282	72	0	6	354	11	860	871
10:00	31	0	7	0	1	38	9	86	0	0	0	95	0	0	0	0	0	0	0	83	15	0	0	98	1	231	232
10:15	26	0	8	0	0	34	14	74	0	1	0	89	0	0	0	0	0	0	0	68	13	1	0	82	0	205	205
10:30	18	0	18	0	1	36	8	77	0	0	0	85	0	0	0	0	0	0	0	62	21	0	0	83	1	204	205
10:45	23	0	12	0	1	35	10	72	0	0	0	82	0	0	0	0	0	0	0	80	18	0	0	98	1	215	216
Total	98	0	45	0	3	143	41	309	0	1	0	351	0	0	0	0	0	0	0	293	67	1	0	361	3	855	858
11:00	23	0	14	0	0	37	9	77	0	0	0	86	0	0	0	0	0	0	0	104	25	0	0	129	0	252	252
11:15	25	0	20	0	0	45	10	91	0	0	0	101	0	0	0	0	0	0	0	78	14	0	0	92	0	238	238
11:30	31	0	17	1	0	49	15	90	0	0	0	105	0	0	0	0	0	0	0	79	23	0	1	102	1	256	257
11:45	24	0	16	0	2	40	12	79	0	0	0	91	0	0	0	0	0	0	0	85	27	1	2	113	4	244	248
Total	103	0	67	1	2	171	46	337	0	0	0	383	0	0	0	0	0	0	0	346	89	1	3	436	5	990	995
12:00	31	0	9	0	1	40	13	75	0	0	0	88	0	0	0	0	0	0	0	80	21	0	2	101	3	229	232
12:15	24	0	12	0	1	36	8	75	0	0	0	83	0	0	0	0	0	0	0	83	23	0	0	106	1	225	226
12:30	23	0	12	0	0	35	14	75	0	1	0	90	0	0	0	0	0	0	0	85	23	0	0	108	0	233	233



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2205
 Site Code :
 Start Date : 06/02/2022
 Page No : 3

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

Groups Printed- Cars + - Trucks

Start Time	Prairie Rd. Southbound						CSAH 116 (Bunker Lake Blvd.) Westbound						Northbound						CSAH 116 (Bunker Lake Blvd.) 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	25	0	13	0	3	38	16	82	0	0	0	98	0	0	0	0	0	0	0	74	25	0	3	99	6	235	241
Total	103	0	46	0	5	149	51	307	0	1	0	359	0	0	0	0	0	0	0	322	92	0	5	414	10	922	932
13:00	24	0	10	1	1	35	15	77	0	0	0	92	0	0	0	0	0	0	0	68	20	0	2	88	3	215	218
13:15	26	0	8	0	0	34	18	68	0	0	0	86	0	0	0	0	0	0	0	84	27	0	0	111	0	231	231
13:30	22	0	8	0	0	30	11	86	0	0	0	97	0	0	0	0	0	0	0	86	32	0	1	118	1	245	246
13:45	24	0	5	0	0	29	18	84	0	0	0	102	0	0	0	0	0	0	0	67	29	0	0	96	0	227	227
Total	96	0	31	1	1	128	62	315	0	0	0	377	0	0	0	0	0	0	0	305	108	0	3	413	4	918	922
14:00	32	0	10	0	0	42	17	88	0	0	0	105	0	0	0	0	0	0	0	87	41	0	2	128	2	275	277
14:15	22	0	8	0	0	30	20	92	0	0	0	112	0	0	0	0	0	0	0	90	32	0	0	122	0	264	264
14:30	31	0	8	0	0	39	21	104	0	0	0	125	0	0	0	0	0	0	0	107	35	0	2	142	2	306	308
14:45	35	0	15	0	0	50	13	87	0	0	0	100	0	0	0	0	0	0	0	119	32	0	0	151	0	301	301
Total	120	0	41	0	0	161	71	371	0	0	0	442	0	0	0	0	0	0	0	403	140	0	4	543	4	1146	1150
15:00	20	0	27	0	0	47	28	115	0	0	0	143	0	0	0	0	0	0	0	116	38	0	1	154	1	344	345
15:15	40	0	15	0	0	55	31	131	0	1	0	163	0	0	0	0	0	0	0	116	49	0	1	165	1	383	384
15:30	39	0	19	0	0	58	32	117	0	1	0	150	0	0	0	0	0	0	0	131	58	0	1	189	1	397	398
15:45	36	0	18	0	0	54	23	130	0	0	0	153	0	0	0	0	0	0	0	128	69	0	2	197	2	404	406
Total	135	0	79	0	0	214	114	493	0	2	0	609	0	0	0	0	0	0	0	491	214	0	5	705	5	1528	1533
16:00	30	0	19	0	0	49	40	116	0	0	0	156	0	0	0	0	0	0	0	110	65	0	2	175	2	380	382
16:15	47	0	27	0	0	74	54	143	0	0	0	197	0	0	0	0	0	0	0	119	67	0	0	186	0	457	457
16:30	38	0	15	0	3	53	39	140	0	0	0	179	0	0	0	0	0	0	0	128	69	0	3	197	6	429	435
16:45	53	0	25	0	0	78	40	133	0	0	0	173	0	0	0	0	0	0	1	109	65	0	0	175	0	426	426
Total	168	0	86	0	3	254	173	532	0	0	0	705	0	0	0	0	0	0	1	466	266	0	5	733	8	1692	1700
17:00	53	0	16	0	1	69	35	162	0	0	0	197	0	0	0	0	0	0	0	135	69	0	8	204	9	470	479
17:15	33	0	16	0	0	49	40	149	0	0	0	189	0	0	0	0	0	0	0	120	74	0	0	194	0	432	432
17:30	48	0	26	0	1	74	20	120	0	0	0	140	0	0	0	0	0	0	0	120	50	0	1	170	2	384	386
17:45	29	0	34	0	0	63	24	94	0	0	0	118	0	0	0	0	0	0	0	108	34	0	5	142	5	323	328
Total	163	0	92	0	2	255	119	525	0	0	0	644	0	0	0	0	0	0	0	483	227	0	14	710	16	1609	1625
18:00	30	0	7	0	0	37	28	105	0	0	0	133	0	0	0	0	0	0	0	86	44	0	4	130	4	300	304
18:15	29	0	14	0	0	43	31	88	0	1	0	120	0	0	0	0	0	0	0	91	47	0	3	138	3	301	304
18:30	32	0	16	0	0	48	16	74	0	0	0	90	0	0	0	0	0	0	0	83	36	1	2	120	2	258	260
18:45	35	0	13	0	0	48	13	75	0	1	0	89	0	0	0	0	0	0	0	79	34	0	1	113	1	250	251
Total	126	0	50	0	0	176	88	342	0	2	0	432	0	0	0	0	0	0	0	339	161	1	10	501	10	1109	1119



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2205
 Site Code :
 Start Date : 06/02/2022
 Page No : 4

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

Groups Printed- Cars + - Trucks

Start Time	Prairie Rd. Southbound						CSAH 116 (Bunker Lake Blvd.) Westbound						Northbound						CSAH 116 (Bunker Lake Blvd.) 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	16	0	8	0	2	24	26	76	0	1	0	103	0	0	0	0	0	0	0	83	38	0	6	121	8	248	256
19:15	22	0	18	0	0	40	15	69	0	0	0	84	0	0	0	0	0	0	0	86	48	0	2	134	2	258	260
19:30	23	0	13	0	1	36	19	55	0	0	0	74	0	0	0	0	0	0	0	75	35	0	1	110	2	220	222
19:45	19	0	7	0	0	26	24	57	0	0	0	81	0	0	0	0	0	0	0	63	25	1	3	89	3	196	199
Total	80	0	46	0	3	126	84	257	0	1	0	342	0	0	0	0	0	0	0	307	146	1	12	454	15	922	937
20:00	22	0	6	0	1	28	30	69	0	0	0	99	0	0	0	0	0	0	0	65	25	0	5	90	6	217	223
20:15	16	0	12	0	0	28	19	57	0	0	0	76	0	0	0	0	0	0	0	56	35	0	0	91	0	195	195
20:30	15	0	8	1	0	24	21	49	0	0	0	70	0	0	0	0	0	0	0	83	33	0	1	116	1	210	211
20:45	13	0	8	0	1	21	13	52	0	0	0	65	0	0	0	0	0	0	0	63	36	0	0	99	1	185	186
Total	66	0	34	1	2	101	83	227	0	0	0	310	0	0	0	0	0	0	0	267	129	0	6	396	8	807	815
21:00	19	0	13	0	2	32	9	49	0	0	0	58	0	0	0	0	0	0	0	56	21	0	0	77	2	167	169
21:15	16	0	7	0	0	23	13	37	0	0	0	50	0	0	0	0	0	0	0	38	23	0	0	61	0	134	134
21:30	16	0	3	0	1	19	8	40	0	0	0	48	0	0	0	0	0	0	0	46	26	0	0	72	1	139	140
21:45	9	0	5	0	0	14	15	40	0	0	0	55	0	0	0	0	0	0	0	35	24	0	0	59	0	128	128
Total	60	0	28	0	3	88	45	166	0	0	0	211	0	0	0	0	0	0	0	175	94	0	0	269	3	568	571
22:00	2	0	6	0	2	8	7	24	0	0	0	31	0	0	0	0	0	0	0	35	18	0	0	53	2	92	94
22:15	6	0	0	0	0	6	6	24	0	0	0	30	0	0	0	0	0	0	0	27	8	0	0	35	0	71	71
22:30	2	0	1	0	0	3	5	24	0	0	0	29	0	0	0	0	0	0	0	19	9	0	0	28	0	60	60
22:45	5	0	1	0	0	6	3	19	0	0	0	22	0	0	0	0	0	0	0	14	8	0	1	22	1	50	51
Total	15	0	8	0	2	23	21	91	0	0	0	112	0	0	0	0	0	0	0	95	43	0	1	138	3	273	276
23:00	1	0	1	0	0	2	1	8	0	0	1	9	0	0	0	0	0	0	0	14	10	0	0	24	1	35	36
23:15	1	0	2	0	1	3	2	15	0	0	0	17	0	0	0	0	0	0	0	13	2	0	1	15	2	35	37
23:30	2	0	0	0	0	2	1	15	0	0	0	16	0	0	0	0	0	0	0	8	4	0	0	12	0	30	30
23:45	1	0	2	0	0	3	3	9	0	0	0	12	0	0	0	0	0	0	0	6	8	0	0	14	0	29	29
Total	5	0	5	0	1	10	7	47	0	0	1	54	0	0	0	0	0	0	0	41	24	0	1	65	3	129	132
Grand Total	2148	0	1089	5	39	3242	1180	5570	0	8	1	6758	0	0	0	0	0	0	1	5805	2085	6	81	7897	121	17897	18018
Apprch %	66.3	0	33.6	0.2			17.5	82.4	0	0.1			0	0	0	0	0	0	0	73.5	26.4	0.1					
Total %	12	0	6.1	0		18.1	6.6	31.1	0	0		37.8	0	0	0	0	0	0	0	32.4	11.6	0		44.1	0.7	99.3	
Cars +	2074	0	1060	2		3175	1151	5336	0	8		6496	0	0	0	0	0	0	1	5584	2025	6		7697	0	0	17368
% Cars +	96.6	0	97.3	40	100	96.8	97.5	95.8	0	100	100	96.1	0	0	0	0	0	0	100	96.2	97.1	100	100	96.5	0	0	96.4
Trucks	74	0	29	3		106	29	234	0	0		263	0	0	0	0	0	0	0	221	60	0		281	0	0	650
% Trucks	3.4	0	2.7	60	0	3.2	2.5	4.2	0	0	0	3.9	0	0	0	0	0	0	0	3.8	2.9	0	0	3.5	0	0	3.6



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2205
 Site Code :
 Start Date : 06/02/2022
 Page No : 5

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

Start Time	Prairie Rd. Southbound					CSAH 116 (Bunker Lake Blvd.) Westbound					Northbound					CSAH 116 (Bunker Lake Blvd.) 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 07:15																					
07:15	59	0	57	0	116	12	75	0	0	87	0	0	0	0	0	0	80	15	0	95	298
07:30	64	0	53	1	118	15	108	0	0	123	0	0	0	0	0	0	133	19	0	152	393
07:45	56	0	39	0	95	19	119	0	0	138	0	0	0	0	0	0	117	21	0	138	371
08:00	47	0	32	0	79	17	72	0	0	89	0	0	0	0	0	0	81	21	0	102	270
Total Volume	226	0	181	1	408	63	374	0	0	437	0	0	0	0	0	0	411	76	0	487	1332
% App. Total	55.4	0	44.4	0.2		14.4	85.6	0	0		0	0	0	0		0	84.4	15.6	0		
PHF	.883	.000	.794	.250	.864	.829	.786	.000	.000	.792	.000	.000	.000	.000	.000	.000	.773	.905	.000	.801	.847
Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:00																					
11:00	23	0	14	0	37	9	77	0	0	86	0	0	0	0	0	0	104	25	0	129	252
11:15	25	0	20	0	45	10	91	0	0	101	0	0	0	0	0	0	78	14	0	92	238
11:30	31	0	17	1	49	15	90	0	0	105	0	0	0	0	0	0	79	23	0	102	256
11:45	24	0	16	0	40	12	79	0	0	91	0	0	0	0	0	0	85	27	1	113	244
Total Volume	103	0	67	1	171	46	337	0	0	383	0	0	0	0	0	0	346	89	1	436	990
% App. Total	60.2	0	39.2	0.6		12	88	0	0		0	0	0	0		0	79.4	20.4	0.2		
PHF	.831	.000	.838	.250	.872	.767	.926	.000	.000	.912	.000	.000	.000	.000	.000	.000	.832	.824	.250	.845	.967
Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:15																					
16:15	47	0	27	0	74	54	143	0	0	197	0	0	0	0	0	0	119	67	0	186	457
16:30	38	0	15	0	53	39	140	0	0	179	0	0	0	0	0	0	128	69	0	197	429
16:45	53	0	25	0	78	40	133	0	0	173	0	0	0	0	0	1	109	65	0	175	426
17:00	53	0	16	0	69	35	162	0	0	197	0	0	0	0	0	0	135	69	0	204	470
Total Volume	191	0	83	0	274	168	578	0	0	746	0	0	0	0	0	1	491	270	0	762	1782
% App. Total	69.7	0	30.3	0		22.5	77.5	0	0		0	0	0	0		0.1	64.4	35.4	0		
PHF	.901	.000	.769	.000	.878	.778	.892	.000	.000	.947	.000	.000	.000	.000	.000	.250	.909	.978	.000	.934	.948



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2205
 Site Code :
 Start Date : 06/02/2022
 Page No : 1

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

Groups Printed- Trucks

Start Time	Prairie Rd. Southbound					CSAH 116 (Bunker Lake Blvd.) Westbound					Northbound					CSAH 116 (Bunker Lake Blvd.) 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	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:15	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	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	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3
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	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2
05:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	2
Total	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	3	0	0	0	3	5
06:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	8	0	0	0	8	9
06:15	1	0	0	0	1	0	2	0	0	2	0	0	0	0	0	0	4	0	0	0	4	7
06:30	1	0	1	0	2	0	1	0	0	1	0	0	0	0	0	0	8	1	0	0	9	12
06:45	3	0	0	0	3	2	6	0	0	8	0	0	0	0	0	0	8	1	0	0	9	20
Total	5	0	1	0	6	2	10	0	0	12	0	0	0	0	0	0	28	2	0	0	30	48
07:00	4	0	2	0	6	0	7	0	0	7	0	0	0	0	0	0	13	1	0	0	14	27
07:15	3	0	0	0	3	1	6	0	0	7	0	0	0	0	0	0	2	0	0	0	2	12
07:30	1	0	1	0	2	0	4	0	0	4	0	0	0	0	0	0	4	5	0	0	9	15
07:45	1	0	2	0	3	3	7	0	0	10	0	0	0	0	0	0	8	0	0	0	8	21
Total	9	0	5	0	14	4	24	0	0	28	0	0	0	0	0	0	27	6	0	0	33	75
08:00	1	0	1	0	2	0	3	0	0	3	0	0	0	0	0	0	5	3	0	0	8	13
08:15	2	0	1	0	3	0	3	0	0	3	0	0	0	0	0	0	8	1	0	0	9	15
08:30	2	0	0	0	2	0	7	0	0	7	0	0	0	0	0	0	3	1	0	0	4	13
08:45	0	0	0	1	1	0	5	0	0	5	0	0	0	0	0	0	1	3	0	0	4	10
Total	5	0	2	1	8	0	18	0	0	18	0	0	0	0	0	0	17	8	0	0	25	51
09:00	1	0	0	0	1	1	3	0	0	4	0	0	0	0	0	0	2	0	0	0	2	7



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2205
 Site Code :
 Start Date : 06/02/2022
 Page No : 2

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

Groups Printed- Trucks

Start Time	Prairie Rd. Southbound					CSAH 116 (Bunker Lake Blvd.) Westbound					Northbound					CSAH 116 (Bunker Lake Blvd.) 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	1	0	0	0	1	0	6	0	0	6	0	0	0	0	0	0	6	0	0		0
09:30	1	0	0	0	1	1	5	0	0	6	0	0	0	0	0	0	5	0	0	0	5	12
09:45	1	0	0	0	1	0	4	0	0	4	0	0	0	0	0	0	7	1	0	0	8	13
Total	4	0	0	0	4	2	18	0	0	20	0	0	0	0	0	0	20	1	0	0	21	45
10:00	1	0	2	0	3	0	1	0	0	1	0	0	0	0	0	0	1	1	0	0	2	6
10:15	2	0	1	0	3	1	4	0	0	5	0	0	0	0	0	0	2	1	0	0	3	11
10:30	0	0	1	0	1	1	4	0	0	5	0	0	0	0	0	0	2	1	0	0	3	9
10:45	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	6	0	0	0	6	12
Total	3	0	4	0	7	2	15	0	0	17	0	0	0	0	0	0	11	3	0	0	14	38
11:00	3	0	0	0	3	0	4	0	0	4	0	0	0	0	0	0	7	2	0	0	9	16
11:15	0	0	1	0	1	0	6	0	0	6	0	0	0	0	0	0	3	0	0	0	3	10
11:30	2	0	0	1	3	0	3	0	0	3	0	0	0	0	0	0	6	1	0	0	7	13
11:45	1	0	1	0	2	1	4	0	0	5	0	0	0	0	0	0	4	0	0	0	4	11
Total	6	0	2	1	9	1	17	0	0	18	0	0	0	0	0	0	20	3	0	0	23	50
12:00	2	0	0	0	2	0	5	0	0	5	0	0	0	0	0	0	3	0	0	0	3	10
12:15	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	3	0	0	0	3	9
12:30	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	5	0	0	0	5	11
12:45	2	0	1	0	3	1	2	0	0	3	0	0	0	0	0	0	6	1	0	0	7	13
Total	4	0	1	0	5	1	19	0	0	20	0	0	0	0	0	0	17	1	0	0	18	43
13:00	3	0	2	1	6	1	4	0	0	5	0	0	0	0	0	0	6	1	0	0	7	18
13:15	1	0	1	0	2	0	4	0	0	4	0	0	0	0	0	0	3	1	0	0	4	10
13:30	2	0	0	0	2	1	4	0	0	5	0	0	0	0	0	0	3	3	0	0	6	13
13:45	2	0	0	0	2	0	1	0	0	1	0	0	0	0	0	0	2	1	0	0	3	6
Total	8	0	3	1	12	2	13	0	0	15	0	0	0	0	0	0	14	6	0	0	20	47
14:00	3	0	0	0	3	1	5	0	0	6	0	0	0	0	0	0	6	1	0	0	7	16
14:15	5	0	0	0	5	0	6	0	0	6	0	0	0	0	0	0	4	0	0	0	4	15
14:30	0	0	1	0	1	1	8	0	0	9	0	0	0	0	0	0	3	4	0	0	7	17
14:45	2	0	2	0	4	1	5	0	0	6	0	0	0	0	0	0	5	1	0	0	6	16
Total	10	0	3	0	13	3	24	0	0	27	0	0	0	0	0	0	18	6	0	0	24	64
15:00	0	0	1	0	1	2	6	0	0	8	0	0	0	0	0	0	6	1	0	0	7	16
15:15	1	0	0	0	1	0	3	0	0	3	0	0	0	0	0	0	3	0	0	0	3	7
15:30	0	0	2	0	2	4	6	0	0	10	0	0	0	0	0	0	5	2	0	0	7	19
15:45	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	5	8	0	0	13	17
Total	1	0	3	0	4	6	19	0	0	25	0	0	0	0	0	0	19	11	0	0	30	59
16:00	3	0	1	0	4	0	6	0	0	6	0	0	0	0	0	0	1	0	0	0	1	11
16:15	2	0	1	0	3	0	3	0	0	3	0	0	0	0	0	0	4	3	0	0	7	13
16:30	1	0	2	0	3	0	6	0	0	6	0	0	0	0	0	0	1	0	0	0	1	10
16:45	2	0	0	0	2	0	5	0	0	5	0	0	0	0	0	0	1	0	0	0	1	8
Total	8	0	4	0	12	0	20	0	0	20	0	0	0	0	0	0	7	3	0	0	10	42
17:00	2	0	0	0	2	1	8	0	0	9	0	0	0	0	0	0	1	0	0	0	1	12
17:15	1	0	0	0	1	0	5	0	0	5	0	0	0	0	0	0	0	2	0	0	2	8
17:30	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	1	0	0	1	6
17:45	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	2	0	0	0	2	4
Total	4	0	0	0	4	1	19	0	0	20	0	0	0	0	0	0	3	3	0	0	6	30
18:00	1	0	0	0	1	0	3	0	0	3	0	0	0	0	0	0	3	1	0	0	4	8
18:15	1	0	0	0	1	1	2	0	0	3	0	0	0	0	0	0	1	0	0	0	1	5
18:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	1	0	0	3	4
18:45	1	0	0	0	1	1	1	0	0	2	0	0	0	0	0	0	2	0	0	0	2	5
Total	3	0	0	0	3	2	7	0	0	9	0	0	0	0	0	0	8	2	0	0	10	22



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2205
 Site Code :
 Start Date : 06/02/2022
 Page No : 3

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

Groups Printed- Trucks

Start Time	Prairie Rd. Southbound					CSAH 116 (Bunker Lake Blvd.) Westbound					Northbound					CSAH 116 (Bunker Lake Blvd.) 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	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	2
19:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
19:30	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	1	0	2	4
19:45	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	0	0	0	2	4	0	0	6	0	0	0	0	0	0	1	2	0	3	9
20:00	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
20:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	3
20:30	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
20:45	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2	0	0	2	3
Total	2	0	0	0	2	1	3	0	0	4	0	0	0	0	0	0	3	1	0	4	10
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
21:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	2
21:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
21:45	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	2	1	0	3	6
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
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	1	1	0	2	2
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	2	1	0	3	3
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	74	0	29	3	106	29	234	0	0	263	0	0	0	0	0	0	221	60	0	281	650
Apprch %	69.8	0	27.4	2.8		11	89	0	0		0	0	0	0		0	78.6	21.4	0		
Total %	11.4	0	4.5	0.5	16.3	4.5	36	0	0	40.5	0	0	0	0	0	0	34	9.2	0	43.2	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2205

Study Date : 09/15/2022

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 116 (Bunker Lake Blvd.)

Number of Lanes : 2+

Total Approach Volume: 7,897

Westbound: CSAH 116 (Bunker Lake Blvd.)

Number of Lanes :2+

Total Approach Volume: 6,758

Minor Street Approaches

Southbound: Prairie Rd.

Number of Lanes :1

Total Approach Volume: 3,242

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 14 hours, 8 are needed

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

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

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

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

Number of hours (15) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (59) 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 2205

Study Date : 09/15/2022

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				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:45 - 17:45	743	+	699	=	1442	0	270	Yes
15:45 - 16:45	755	+	685	=	1440	0	230	Yes
14:45 - 15:45	659	+	556	=	1215	0	210	Yes
17:45 - 18:45	530	+	461	=	991	0	191	Yes
13:45 - 14:45	488	+	444	=	932	0	140	Yes
07:45 - 08:45	449	+	390	=	839	0	279	Yes
18:45 - 19:45	478	+	350	=	828	0	148	Yes
06:45 - 07:45	452	+	358	=	810	0	403	Yes
10:45 - 11:45	421	+	374	=	795	0	166	Yes
12:45 - 13:45	416	+	373	=	789	0	137	Yes
11:45 - 12:45	428	+	352	=	780	0	151	Yes
19:45 - 20:45	386	+	326	=	712	0	106	Yes
09:45 - 10:45	363	+	347	=	710	0	151	Yes
08:45 - 09:45	348	+	312	=	660	0	186	Yes
05:45 - 06:45	253	+	169	=	422	0	192	Yes
20:45 - 21:45	309	+	221	=	530	0	95	No
21:00 - 22:00	269	+	211	=	480	0	88	No
21:15 - 22:15	245	+	184	=	429	0	64	No
21:30 - 22:30	219	+	164	=	383	0	47	No
05:30 - 06:30	203	+	149	=	352	0	168	No
21:45 - 22:45	175	+	145	=	320	0	31	No
05:15 - 06:15	145	+	112	=	257	0	137	No
22:00 - 23:00	138	+	112	=	250	0	23	No
22:15 - 23:15	109	+	90	=	199	0	17	No
05:00 - 06:00	102		87		189	0	117	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2205

Study Date : 09/15/2022

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

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**

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	
16:30 - 17:30	770	+	738	=	1508	0	249	Yes
15:30 - 16:30	747	+	656	=	1403	0	235	Yes
14:30 - 15:30	612	+	531	=	1143	0	191	Yes
17:30 - 18:30	580	+	511	=	1091	0	217	Yes
07:30 - 08:30	499	+	436	=	935	0	344	Yes
13:30 - 14:30	464	+	416	=	880	0	131	Yes
18:30 - 19:30	488	+	366	=	854	0	160	Yes
11:30 - 12:30	422	+	367	=	789	0	165	Yes
12:30 - 13:30	406	+	366	=	772	0	142	Yes
10:30 - 11:30	402	+	354	=	756	0	153	Yes
19:30 - 20:30	380	+	330	=	710	0	118	Yes
09:30 - 10:30	351	+	352	=	703	0	154	Yes
08:30 - 09:30	379	+	299	=	678	0	200	Yes
06:30 - 07:30	385	+	284	=	669	0	352	Yes
06:15 - 07:15	363	+	245	=	608	0	288	No
20:30 - 21:30	353	+	243	=	596	0	100	No
20:45 - 21:45	309	+	221	=	530	0	95	No
06:00 - 07:00	313	+	208	=	521	0	232	No
21:00 - 22:00	269	+	211	=	480	0	88	No
21:15 - 22:15	245	+	184	=	429	0	64	No
05:45 - 06:45	253	+	169	=	422	0	192	No
21:30 - 22:30	219	+	164	=	383	0	47	No
05:30 - 06:30	203	+	149	=	352	0	168	No
21:45 - 22:45	175	+	145	=	320	0	31	No
05:15 - 06:15	145		112		257	0	137	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2205

Study Date : 09/15/2022

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

16 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**

Time	Major Road				Total	Minor Road		Met1A?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:30 - 17:30	770	+	738	=	1508	0	249	Yes
15:30 - 16:30	747	+	656	=	1403	0	235	Yes
14:30 - 15:30	612	+	531	=	1143	0	191	Yes
17:30 - 18:30	580	+	511	=	1091	0	217	Yes
07:30 - 08:30	499	+	436	=	935	0	344	Yes
13:30 - 14:30	464	+	416	=	880	0	131	Yes
18:30 - 19:30	488	+	366	=	854	0	160	Yes
11:30 - 12:30	422	+	367	=	789	0	165	Yes
12:30 - 13:30	406	+	366	=	772	0	142	Yes
10:30 - 11:30	402	+	354	=	756	0	153	Yes
19:30 - 20:30	380	+	330	=	710	0	118	Yes
09:30 - 10:30	351		352		703	0	154	Yes

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:00 - 17:00	733	+	705	=	1438	0	254	Yes
17:00 - 18:00	710	+	644	=	1354	0	255	Yes
15:00 - 16:00	705	+	609	=	1314	0	214	Yes
14:00 - 15:00	543	+	442	=	985	0	161	Yes
18:00 - 19:00	501	+	432	=	933	0	176	Yes
07:00 - 08:00	485	+	424	=	909	0	422	Yes
11:00 - 12:00	436	+	383	=	819	0	171	Yes
19:00 - 20:00	454	+	342	=	796	0	126	Yes
13:00 - 14:00	413	+	377	=	790	0	128	Yes
12:00 - 13:00	414	+	359	=	773	0	149	Yes
08:00 - 09:00	405	+	317	=	722	0	232	Yes
10:00 - 11:00	361		351		712	0	143	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2205

Study Date : 09/15/2022

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.

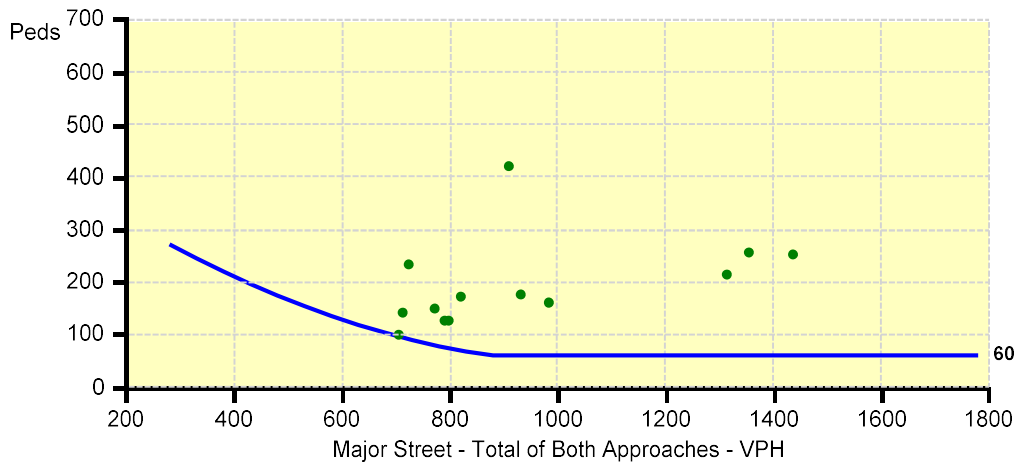
Summary

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**

Time	Major Road CSAH 116 (Bunker Lake Blvd.)				Total	Minor Road Prairie Rd.		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:00 - 17:00	733	+	705	=	1438	0	254	Yes
17:00 - 18:00	710	+	644	=	1354	0	255	Yes
15:00 - 16:00	705	+	609	=	1314	0	214	Yes
14:00 - 15:00	543	+	442	=	985	0	161	Yes
18:00 - 19:00	501	+	432	=	933	0	176	Yes
07:00 - 08:00	485	+	424	=	909	0	422	Yes
11:00 - 12:00	436	+	383	=	819	0	171	Yes
19:00 - 20:00	454	+	342	=	796	0	126	Yes
13:00 - 14:00	413	+	377	=	790	0	128	Yes
12:00 - 13:00	414	+	359	=	773	0	149	Yes
08:00 - 09:00	405	+	317	=	722	0	232	Yes
							143	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2205

Study Date : 09/15/2022

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 116 (Bunker Lake Blvd.)				Total	Minor Road Prairie Rd.		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:30 - 17:30	770	+	738	=	1508	0	249	Yes
16:15 - 17:15	762	+	746	=	1508	0	274	Yes
16:45 - 17:45	743	+	699	=	1442	0	270	Yes
15:45 - 16:45	755	+	685	=	1440	0	230	Yes
16:00 - 17:00	733	+	705	=	1438	0	254	Yes
15:30 - 16:30	747	+	656	=	1403	0	235	Yes
17:00 - 18:00	710	+	644	=	1354	0	255	Yes
15:15 - 16:15	726	+	622	=	1348	0	216	Yes
15:00 - 16:00	705	+	609	=	1314	0	214	Yes
17:15 - 18:15	636	+	580	=	1216	0	223	Yes
14:45 - 15:45	659	+	556	=	1215	0	210	Yes
							191	Yes

