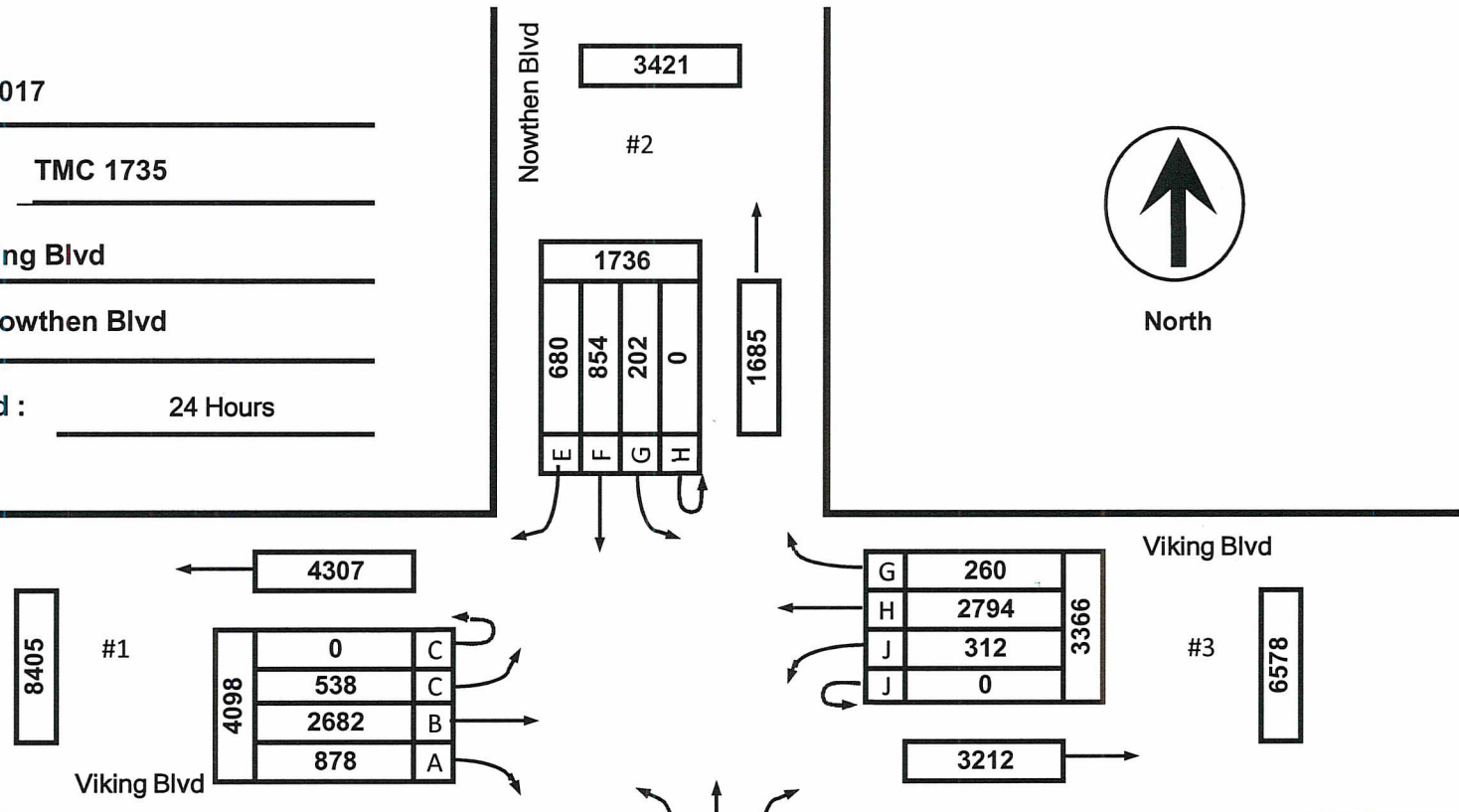


Date : 08/02/2017

Count Number : TMC 1735

Location : Viking Blvd
@ Nowthen Blvd

Collection Period : 24 Hours



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

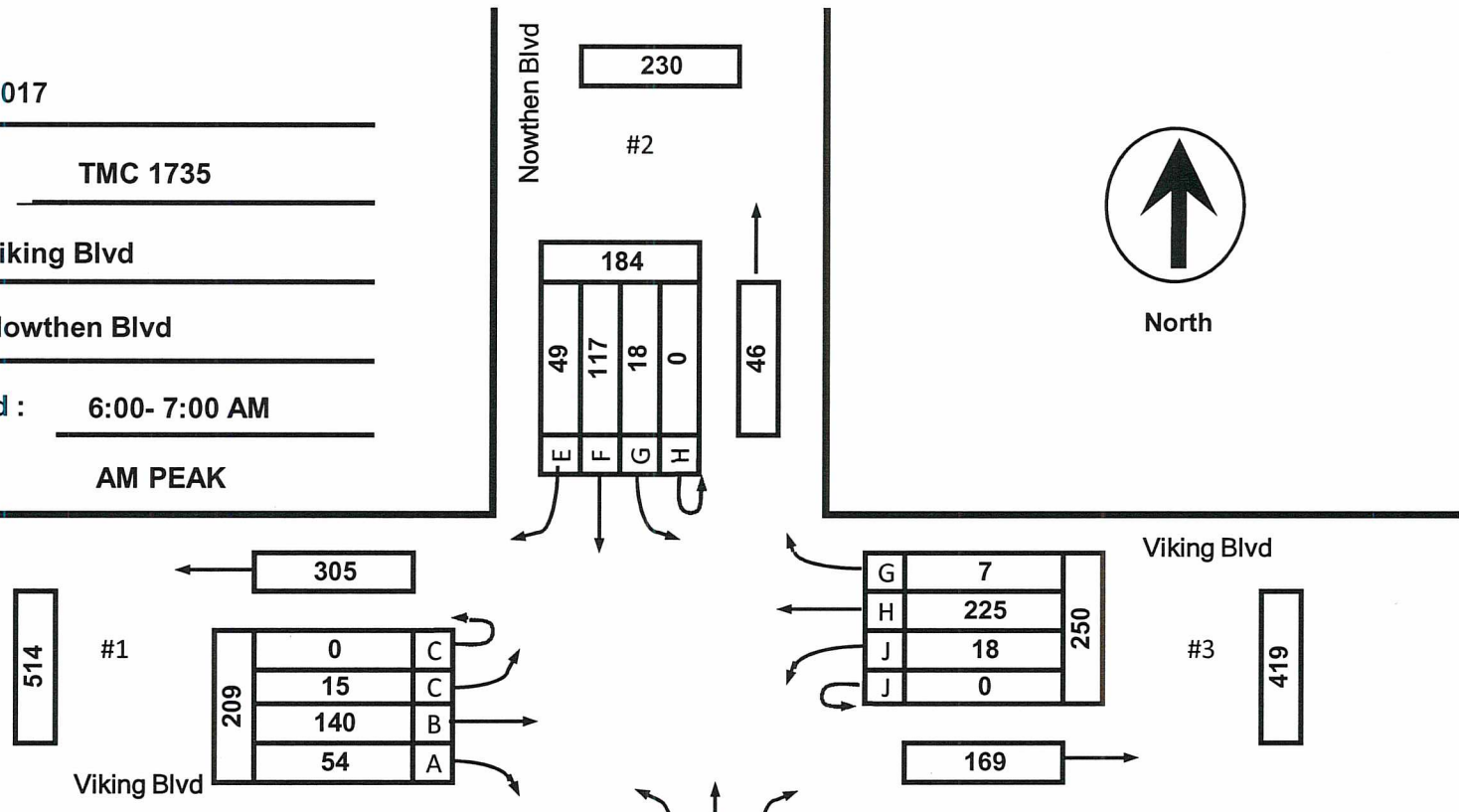
Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Date : 08/02/2017

Count Number : TMC 1735

Location : Viking Blvd
@ Nowthen Blvd

Collection Period : 6:00- 7:00 AM
AM PEAK



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

Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Date : 08/02/2017

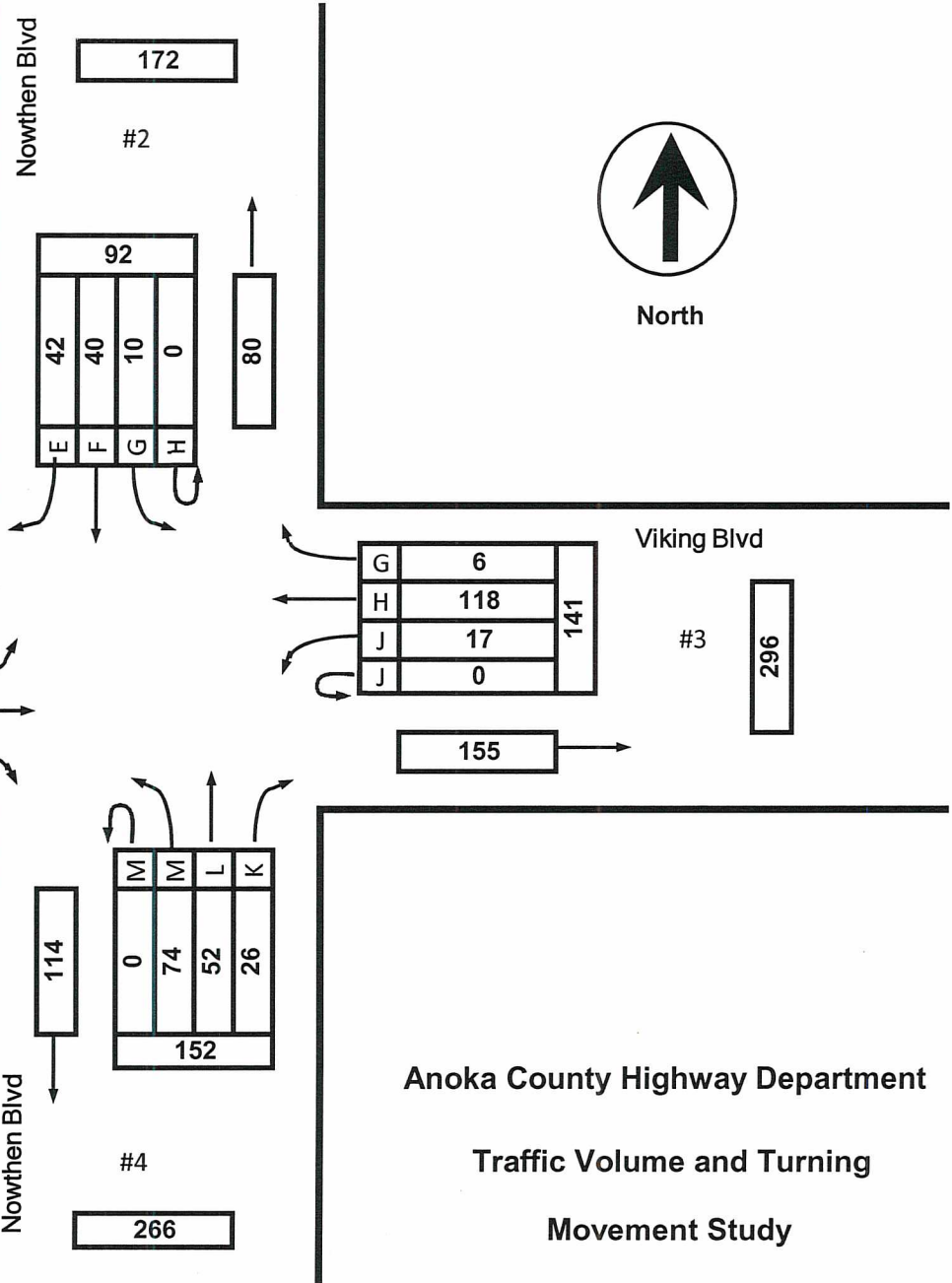
Count Number : TMC 1735

Location : Viking Blvd

@ Nowthen Blvd

Collection Period : 11:45 AM - 12:45 PM

MID PEAK



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

Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Date : 08/02/2017

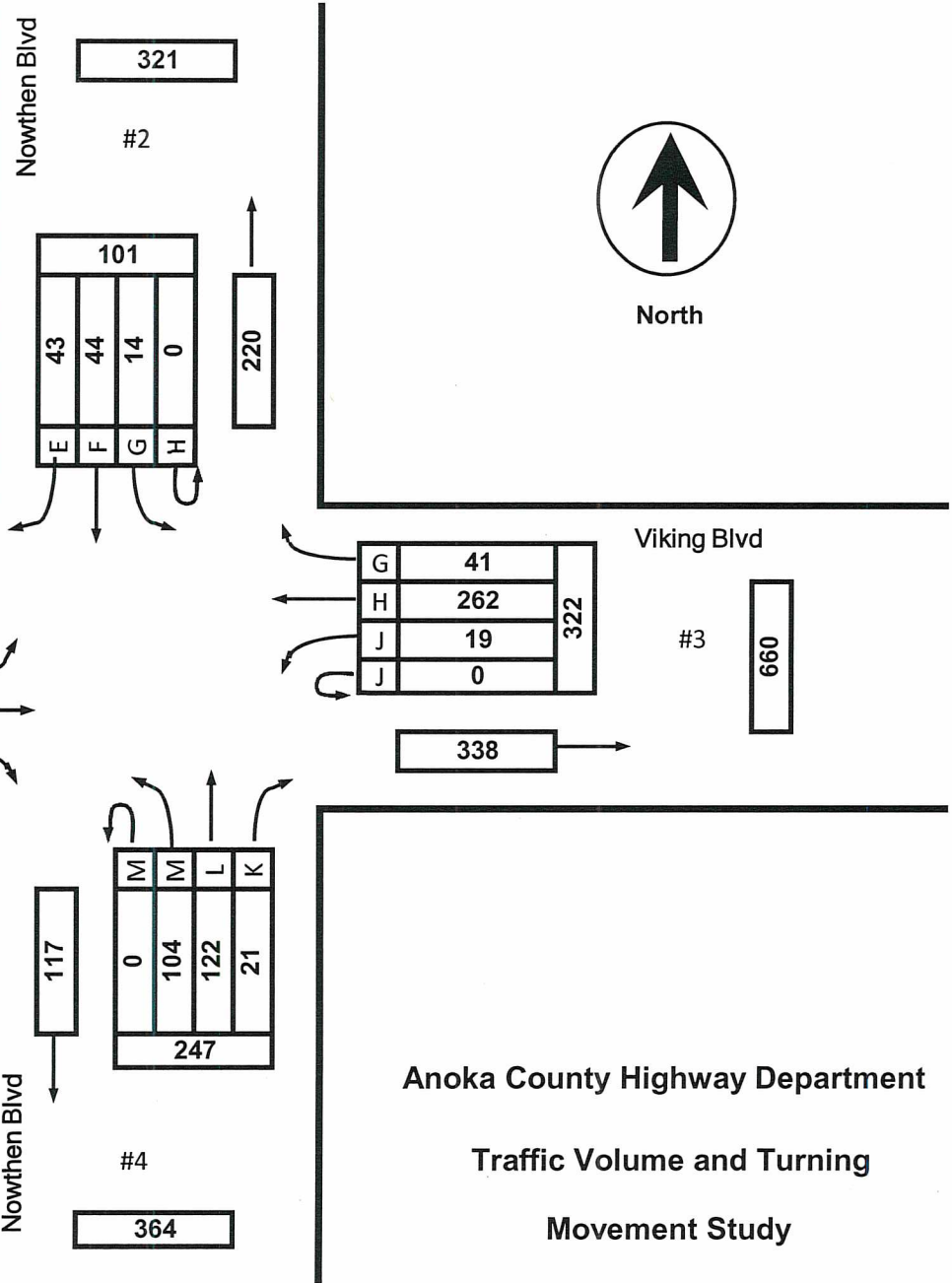
Count Number : TMC 1735

Location : Viking Blvd

@ Nowthen Blvd

Collection Period : 4:30 - 5:30 PM

PM PEAK



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

Anoka County Highway Department
Traffic Volume and Turning
Movement Study



Anoka County Highway Department

Traffic Engineering Section

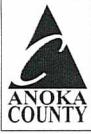
Traffic Volume and Turning Movement Study

Weather: Hot & Cloudy
 CountCAM 200
 Study Conducted By: Ferin

File Name : TMC 1735
 Site Code :
 Start Date : 08/02/2017
 Page No : 1

Groups Printed- Cars + - Trucks

Start Time	Nowthen Blvd Southbound						Viking Blvd Westbound						Nowthen Blvd Northbound						Viking Blvd 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	1	0	0	1	0	1	1	0	0	2	0	1	1	0	0	2	0	4	4	2	0	10	0	15	15
00:15	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	0	0	1	0	0	0	0	0	0	0	4	4
00:30	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	2
00:45	0	0	0	0	0	0	0	1	1	0	0	2	0	1	3	1	0	5	0	0	0	1	0	1	0	8	8
Total	0	0	2	0	0	2	0	2	5	0	0	7	0	3	4	1	0	8	0	4	4	4	0	12	0	29	29
01:00	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2	0	4	4
01:15	0	0	1	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2	0	0	1	0	0	1	0	5	5
01:30	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	3	3
01:45	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	1	0	0	0	1	0	3	3
Total	0	0	1	0	0	1	0	0	4	0	0	4	0	0	4	0	0	4	0	1	5	0	0	6	0	15	15
02:00	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	0	1	0	0	0	1	0	4	4
02:15	0	0	1	0	0	1	0	1	0	0	0	1	0	0	2	0	0	2	0	0	2	0	0	2	0	6	6
02:30	0	0	0	2	0	2	0	0	2	0	0	2	0	0	3	0	0	3	0	0	1	0	0	1	0	8	8
02:45	0	0	1	0	0	1	0	1	2	1	0	4	0	0	3	2	0	5	0	0	1	0	0	1	0	11	11
Total	0	0	2	2	0	4	0	2	6	2	0	10	0	0	8	2	0	10	0	1	4	0	0	5	0	29	29
03:00	0	0	0	0	0	0	0	0	1	0	0	1	0	0	3	0	0	3	0	0	2	1	0	3	0	7	7
03:15	0	0	1	1	0	2	0	0	2	0	0	2	0	0	1	0	0	1	0	0	1	2	0	3	0	8	8
03:30	0	0	2	2	0	4	0	1	4	0	0	5	0	1	0	0	0	1	0	0	3	1	0	4	0	14	14
03:45	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	1	3	1	0	5	0	9	9
Total	0	0	3	3	0	6	0	1	11	0	0	12	0	1	4	0	0	5	0	1	9	5	0	15	0	38	38
04:00	0	0	7	0	0	7	0	1	8	0	0	9	0	0	1	0	0	1	0	1	5	0	0	6	0	23	23
04:15	0	0	5	1	0	6	0	1	9	0	0	10	0	0	0	0	0	0	0	0	2	2	0	4	0	20	20
04:30	0	1	12	4	0	17	0	1	12	1	0	14	0	1	0	0	0	1	0	0	3	3	0	6	0	38	38
04:45	0	0	8	0	0	8	0	1	10	0	0	11	0	1	1	0	0	2	0	0	3	2	0	5	0	26	26
Total	0	1	32	5	0	38	0	4	39	1	0	44	0	2	2	0	0	4	0	1	13	7	0	21	0	107	107
05:00	0	3	19	11	0	33	0	1	25	2	0	28	0	1	1	1	0	3	0	1	10	9	0	20	0	84	84
05:15	0	1	17	8	0	26	0	4	43	3	0	50	0	3	3	2	0	8	0	0	15	5	0	20	0	104	104
05:30	0	2	26	13	0	41	0	8	43	2	0	53	0	1	5	3	0	9	0	3	19	12	0	34	0	137	137
05:45	0	2	21	9	0	32	0	3	35	6	0	44	0	2	3	3	0	8	0	2	14	17	0	33	0	117	117
Total	0	8	83	41	0	132	0	16	146	13	0	175	0	7	12	9	0	28	0	6	58	43	0	107	0	442	442



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Weather: Hot & Cloudy
 CountCAM 200
 Study Conducted By: Ferin

File Name : TMC 1735
 Site Code :
 Start Date : 08/02/2017
 Page No : 2

Groups Printed- Cars + - Trucks

Start Time	Nowthen Blvd Southbound						Viking Blvd Westbound						Nowthen Blvd Northbound						Viking Blvd 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	5	31	11	0	47	0	6	49	0	0	55	0	9	3	1	0	13	0	1	29	12	0	42	0	157	157
06:15	0	7	40	5	0	52	0	2	59	1	0	62	0	9	8	3	0	20	0	4	30	14	0	48	0	182	182
06:30	0	4	25	16	0	45	0	2	66	3	0	71	0	6	7	3	0	16	0	8	42	15	0	65	0	197	197
06:45	0	2	21	17	0	40	0	8	51	3	0	62	0	7	6	4	0	17	0	2	39	13	0	54	0	173	173
Total	0	18	117	49	0	184	0	18	225	7	0	250	0	31	24	11	0	66	0	15	140	54	0	209	0	709	709
07:00	0	3	19	14	0	36	0	5	38	2	0	45	0	8	4	6	0	18	0	2	31	15	0	48	0	147	147
07:15	0	3	19	12	0	34	0	5	50	1	0	56	0	5	0	7	0	12	0	1	26	17	0	44	0	146	146
07:30	0	6	17	16	0	39	0	5	61	0	0	66	0	15	11	7	0	33	0	3	43	14	0	60	0	198	198
07:45	0	3	19	13	0	35	0	7	48	4	0	59	0	8	6	2	0	16	0	2	46	19	0	67	0	177	177
Total	0	15	74	55	0	144	0	22	197	7	0	226	0	36	21	22	0	79	0	8	146	65	0	219	0	668	668
08:00	0	3	15	7	0	25	0	5	39	1	0	45	0	7	9	4	0	20	0	3	27	18	0	48	0	138	138
08:15	0	0	10	7	2	17	0	10	49	3	0	62	0	11	4	1	0	16	0	2	29	18	0	49	2	144	146
08:30	0	0	16	11	0	27	0	7	41	2	0	50	0	8	5	5	2	18	0	6	39	18	0	63	2	158	160
08:45	0	2	11	12	0	25	0	8	52	0	0	60	0	11	12	2	0	25	0	5	29	30	1	64	1	174	175
Total	0	5	52	37	2	94	0	30	181	6	0	217	0	37	30	12	2	79	0	16	124	84	1	224	5	614	619
09:00	0	0	9	10	0	19	0	2	33	1	0	36	0	20	5	11	0	36	0	7	30	17	0	54	0	145	145
09:15	0	7	9	10	0	26	0	10	41	1	0	52	0	14	6	5	0	25	0	4	34	3	0	41	0	144	144
09:30	0	2	15	13	0	30	0	2	42	3	0	47	0	3	6	2	0	11	0	5	20	12	1	37	1	125	126
09:45	0	2	11	6	0	19	0	4	29	2	0	35	0	7	10	1	0	18	0	4	22	9	0	35	0	107	107
Total	0	11	44	39	0	94	0	18	145	7	0	170	0	44	27	19	0	90	0	20	106	41	1	167	1	521	522
10:00	0	7	8	6	1	21	0	2	37	6	0	45	0	6	12	3	0	21	0	7	24	6	0	37	1	124	125
10:15	0	4	9	7	0	20	0	4	35	3	1	42	0	7	8	2	0	17	0	5	31	7	1	43	2	122	124
10:30	0	4	10	9	0	23	0	0	40	3	1	43	0	4	4	5	0	13	0	5	32	6	0	43	1	122	123
10:45	0	3	9	5	0	17	0	3	31	4	0	38	0	9	7	3	0	19	0	7	26	9	0	42	0	116	116
Total	0	18	36	27	1	81	0	9	143	16	2	168	0	26	31	13	0	70	0	24	113	28	1	165	4	484	488
11:00	0	2	4	7	0	13	0	6	17	2	0	25	0	15	5	3	0	23	0	8	26	9	0	43	0	104	104
11:15	0	2	12	10	0	24	0	5	38	6	0	49	0	6	11	4	0	21	0	10	30	8	0	48	0	142	142
11:30	0	3	11	10	0	24	0	3	34	4	0	41	0	8	5	2	0	15	0	6	30	9	0	45	0	125	125
11:45	0	3	12	8	0	23	0	10	31	1	0	42	0	10	8	4	0	22	0	6	22	28	0	56	0	143	143
Total	0	10	39	35	0	84	0	24	120	13	0	157	0	39	29	13	0	81	0	30	108	54	0	192	0	514	514
12:00	0	2	7	11	0	20	0	3	30	0	0	33	0	41	13	13	0	67	0	7	36	11	0	54	0	174	174
12:15	0	2	9	11	0	22	0	1	25	3	0	29	0	10	19	7	0	36	0	5	29	12	4	46	4	133	137



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Weather: Hot & Cloudy
 CountCAM 200
 Study Conducted By: Ferin

File Name : TMC 1735
 Site Code :
 Start Date : 08/02/2017
 Page No : 3

Groups Printed- Cars + - Trucks

Start Time	Nowthen Blvd Southbound						Viking Blvd Westbound						Nowthen Blvd Northbound						Viking Blvd 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			
12:30	0	3	12	12	0	27	0	3	32	2	0	37	0	13	12	2	0	27	0	4	32	6	0	42	0	133	133
12:45	0	0	10	8	0	18	0	2	28	4	0	34	0	11	10	5	0	26	0	7	33	9	0	49	0	127	127
Total	0	7	38	42	0	87	0	9	115	9	0	133	0	75	54	27	0	156	0	23	130	38	4	191	4	567	571
13:00	0	6	6	9	0	21	0	1	38	3	0	42	0	7	12	4	0	23	0	5	37	11	0	53	0	139	139
13:15	0	2	9	9	1	20	0	0	37	5	0	42	0	6	8	7	0	21	0	13	36	8	0	57	1	140	141
13:30	0	1	10	10	0	21	0	5	29	5	0	39	0	12	12	6	0	30	0	10	34	11	0	55	0	145	145
13:45	0	5	10	4	0	19	0	5	29	3	1	37	0	12	12	3	0	27	0	10	36	17	0	63	1	146	147
Total	0	14	35	32	1	81	0	11	133	16	1	160	0	37	44	20	0	101	0	38	143	47	0	228	2	570	572
14:00	0	2	9	10	0	21	0	5	49	2	0	56	0	14	15	7	0	36	0	8	31	7	1	46	1	159	160
14:15	0	1	10	9	2	20	0	1	35	0	0	36	0	12	8	4	0	24	0	18	45	14	0	77	2	157	159
14:30	0	1	9	19	0	29	0	5	47	1	0	53	0	11	11	8	0	30	0	8	40	17	0	65	0	177	177
14:45	0	3	5	8	2	16	0	5	45	6	0	56	0	8	18	4	0	30	0	13	43	8	0	64	2	166	168
Total	0	7	33	46	4	86	0	16	176	9	0	201	0	45	52	23	0	120	0	47	159	46	1	252	5	659	664
15:00	0	3	13	16	0	32	0	5	32	3	0	40	0	13	22	5	0	40	0	17	36	18	0	71	0	183	183
15:15	0	1	9	12	0	22	0	12	42	12	0	66	0	21	28	10	0	59	0	15	59	14	0	88	0	235	235
15:30	0	5	12	13	0	30	0	6	38	6	0	50	0	24	28	11	0	63	0	9	58	17	0	84	0	227	227
15:45	0	3	14	12	0	29	0	5	56	11	0	72	0	29	43	8	0	80	0	15	55	13	0	83	0	264	264
Total	0	12	48	53	0	113	0	28	168	32	0	228	0	87	121	34	0	242	0	56	208	62	0	326	0	909	909
16:00	0	5	9	11	0	25	0	3	51	5	0	59	0	23	35	7	0	65	0	21	63	13	0	97	0	246	246
16:15	0	3	7	8	0	18	0	6	70	7	0	83	0	18	23	14	0	55	0	7	60	10	0	77	0	233	233
16:30	0	6	12	11	0	29	0	6	68	9	0	83	0	27	40	4	0	71	0	15	78	12	0	105	0	288	288
16:45	0	2	13	8	0	23	0	4	48	9	0	61	0	26	41	7	0	74	0	13	69	7	0	89	0	247	247
Total	0	16	41	38	0	95	0	19	237	30	0	286	0	94	139	32	0	265	0	56	270	42	0	368	0	1014	1014
17:00	0	6	12	11	0	29	0	4	62	10	0	76	0	27	26	4	0	57	0	15	74	18	0	107	0	269	269
17:15	0	0	7	13	0	20	0	5	84	13	0	102	0	24	15	6	0	45	0	14	82	17	0	113	0	280	280
17:30	0	3	9	10	0	22	0	6	69	5	1	80	0	14	19	7	0	40	0	16	83	10	0	109	1	251	252
17:45	0	2	10	10	0	22	0	8	50	2	0	60	0	25	25	6	0	56	0	19	64	11	0	94	0	232	232
Total	0	11	38	44	0	93	0	23	265	30	1	318	0	90	85	23	0	198	0	64	303	56	0	423	1	1032	1033
18:00	0	6	10	10	0	26	0	7	67	4	1	78	0	18	11	6	0	35	0	5	53	8	0	66	1	205	206
18:15	0	2	14	11	0	27	0	1	44	3	0	48	0	21	23	8	0	52	0	10	52	15	1	77	1	204	205
18:30	0	2	10	21	0	33	0	4	40	3	0	47	0	22	23	6	0	51	0	11	41	12	1	64	1	195	196
18:45	0	3	9	5	0	17	0	3	36	6	0	45	0	8	13	7	0	28	0	10	59	15	0	84	0	174	174
Total	0	13	43	47	0	103	0	15	187	16	1	218	0	69	70	27	0	166	0	36	205	50	2	291	3	778	781



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Weather: Hot & Cloudy
 CountCAM 200
 Study Conducted By: Ferin

File Name : TMC 1735
 Site Code :
 Start Date : 08/02/2017
 Page No : 4

Groups Printed- Cars + - Trucks

Start Time	Nowthen Blvd Southbound						Viking Blvd Westbound						Nowthen Blvd Northbound						Viking Blvd 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			
19:00	0	8	13	7	0	28	0	4	32	5	0	41	0	11	13	3	0	27	0	7	42	15	0	64	0	160	160
19:15	0	2	9	4	0	15	0	6	31	4	0	41	0	14	14	4	0	32	0	7	38	8	0	53	0	141	141
19:30	0	7	9	7	0	23	0	1	37	8	0	46	0	9	4	2	0	15	0	8	27	11	1	46	1	130	131
19:45	0	1	15	17	0	33	0	1	23	5	0	29	0	8	7	3	0	18	0	9	24	14	0	47	0	127	127
Total	0	18	46	35	0	99	0	12	123	22	0	157	0	42	38	12	0	92	0	31	131	48	1	210	1	558	559
20:00	0	4	6	7	0	17	0	5	22	4	0	31	0	20	15	5	0	40	0	3	27	20	0	50	0	138	138
20:15	0	0	6	2	1	8	0	1	19	5	0	25	0	6	12	2	1	20	0	5	27	7	0	39	2	92	94
20:30	0	3	7	6	0	16	0	6	24	3	0	33	0	8	15	1	0	24	0	9	38	6	0	53	0	126	126
20:45	0	1	5	5	0	11	0	3	12	0	0	15	0	12	10	3	0	25	0	13	26	5	0	44	0	95	95
Total	0	8	24	20	1	52	0	15	77	12	0	104	0	46	52	11	1	109	0	30	118	38	0	186	2	451	453
21:00	0	2	8	7	0	17	0	6	17	1	0	24	0	0	8	1	0	9	0	4	29	13	0	46	0	96	96
21:15	0	0	1	4	0	5	0	2	16	3	0	21	0	4	6	1	0	11	0	5	28	12	0	45	0	82	82
21:30	0	2	3	4	0	9	0	1	18	0	0	19	0	2	3	1	0	6	0	3	27	13	0	43	0	77	77
21:45	0	2	2	4	0	8	0	2	6	1	0	9	0	4	3	1	0	8	0	4	16	6	0	26	0	51	51
Total	0	6	14	19	0	39	0	11	57	5	0	73	0	10	20	4	0	34	0	16	100	44	0	160	0	306	306
22:00	0	1	2	1	0	4	0	3	5	0	0	8	0	3	7	3	0	13	0	5	16	6	0	27	0	52	52
22:15	0	0	3	1	0	4	0	1	7	1	0	9	0	2	0	1	0	3	0	3	15	2	0	20	0	36	36
22:30	0	1	1	3	0	5	0	0	3	2	0	5	0	1	0	1	0	2	0	1	13	4	0	18	0	30	30
22:45	0	0	2	3	0	5	0	1	7	1	0	9	0	1	2	1	0	4	0	1	4	0	0	5	0	23	23
Total	0	2	8	8	0	18	0	5	22	4	0	31	0	7	9	6	0	22	0	10	48	12	0	70	0	141	141
23:00	0	0	0	0	0	0	0	1	4	0	0	5	0	0	1	3	0	4	0	2	13	3	0	18	0	27	27
23:15	0	1	0	2	0	3	0	0	3	1	0	4	0	1	2	3	0	6	0	0	9	2	0	11	0	24	24
23:30	0	0	1	1	0	2	0	1	5	1	0	7	0	3	1	1	0	5	0	1	9	3	0	13	0	27	27
23:45	0	1	0	0	0	1	0	0	0	1	0	1	0	1	3	0	0	4	0	1	6	2	0	9	0	15	15
Total	0	2	1	3	0	6	0	2	12	3	0	17	0	5	7	7	0	19	0	4	37	10	0	51	0	93	93
Grand Total	0	202	854	680	9	1736	0	312	2794	260	5	3366	0	833	887	328	3	2048	0	538	2682	878	11	4098	28	11248	11276
Apprch %	0	11.6	49.2	39.2			0	9.3	83	7.7			0	40.7	43.3	16			0	13.1	65.4	21.4					
Total %	0	1.8	7.6	6		15.4	0	2.8	24.8	2.3		29.9	0	7.4	7.9	2.9		18.2	0	4.8	23.8	7.8		36.4	0.2	99.8	
Cars +	0	182	793	648		1624	0	286	2501	227		3017	0	774	798	313		1885	0	508	2399	795		3711	0	0	10237
% Cars +	0	90.1	92.9	95.3	11.1	93.1	0	91.7	89.5	87.3	60	89.5	0	92.9	90	95.4	0	91.9	0	94.4	89.4	90.5	81.8	90.3	0	0	90.8
Trucks	0	20	61	32		121	0	26	293	33		354	0	59	89	15		166	0	30	283	83		398	0	0	1039
% Trucks	0	9.9	7.1	4.7	88.9	6.9	0	8.3	10.5	12.7	40	10.5	0	7.1	10	4.6	100	8.1	0	5.6	10.6	9.5	18.2	9.7	0	0	9.2



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Weather: Hot & Cloudy
 CountCAM 200
 Study Conducted By: Ferin

File Name : TMC 1735
 Site Code :
 Start Date : 08/02/2017
 Page No : 5

Start Time	Nowthen Blvd Southbound					Viking Blvd Westbound					Nowthen Blvd Northbound					Viking Blvd 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 06:00																					
06:00	0	5	31	11	47	0	6	49	0	55	0	9	3	1	13	0	1	29	12	42	157
06:15	0	7	40	5	52	0	2	59	1	62	0	9	8	3	20	0	4	30	14	48	182
06:30	0	4	25	16	45	0	2	66	3	71	0	6	7	3	16	0	8	42	15	65	197
06:45	0	2	21	17	40	0	8	51	3	62	0	7	6	4	17	0	2	39	13	54	173
Total Volume	0	18	117	49	184	0	18	225	7	250	0	31	24	11	66	0	15	140	54	209	709
% App. Total	0	9.8	63.6	26.6		0	7.2	90	2.8		0	47	36.4	16.7		0	7.2	67	25.8		
PHF	.000	.643	.731	.721	.885	.000	.563	.852	.583	.880	.000	.861	.750	.688	.825	.000	.469	.833	.900	.804	.900
Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:15																					
11:15	0	2	12	10	24	0	5	38	6	49	0	6	11	4	21	0	10	30	8	48	142
11:30	0	3	11	10	24	0	3	34	4	41	0	8	5	2	15	0	6	30	9	45	125
11:45	0	3	12	8	23	0	10	31	1	42	0	10	8	4	22	0	6	22	28	56	143
12:00	0	2	7	11	20	0	3	30	0	33	0	41	13	13	67	0	7	36	11	54	174
Total Volume	0	10	42	39	91	0	21	133	11	165	0	65	37	23	125	0	29	118	56	203	584
% App. Total	0	11	46.2	42.9		0	12.7	80.6	6.7		0	52	29.6	18.4		0	14.3	58.1	27.6		
PHF	.000	.833	.875	.886	.948	.000	.525	.875	.458	.842	.000	.396	.712	.442	.466	.000	.725	.819	.500	.906	.839
Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:30																					
16:30	0	6	12	11	29	0	6	68	9	83	0	27	40	4	71	0	15	78	12	105	288
16:45	0	2	13	8	23	0	4	48	9	61	0	26	41	7	74	0	13	69	7	89	247
17:00	0	6	12	11	29	0	4	62	10	76	0	27	26	4	57	0	15	74	18	107	269
17:15	0	0	7	13	20	0	5	84	13	102	0	24	15	6	45	0	14	82	17	113	280
Total Volume	0	14	44	43	101	0	19	262	41	322	0	104	122	21	247	0	57	303	54	414	1084
% App. Total	0	13.9	43.6	42.6		0	5.9	81.4	12.7		0	42.1	49.4	8.5		0	13.8	73.2	13		
PHF	.000	.583	.846	.827	.871	.000	.792	.780	.788	.789	.000	.963	.744	.750	.834	.000	.950	.924	.750	.916	.941



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Weather: Hot & Cloudy
 CountCAM 200
 Study Conducted By: Ferin

File Name : TMC 1735
 Site Code :
 Start Date : 08/02/2017
 Page No : 1

Groups Printed- Trucks

Start Time	Nowthen Blvd Southbound					Viking Blvd Westbound					Nowthen Blvd Northbound					Viking Blvd 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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	1	2
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15	0	0	0	0	0	0	1	0	0	1	0	0	2	0	2	0	0	0	0	0	0	3
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	2	0	2	0	0	0	0	0	0	2
Total	0	0	0	0	0	0	1	0	0	1	0	0	4	0	4	0	0	0	0	0	0	5
03:00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	2
03:15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
03:30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	1	2
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	1	3	0	4	0	0	1	0	1	1	5
04:00	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1
04:30	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
04:45	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	1	0	1	0	1	2	0	3	0	0	0	0	0	0	0	1	0	1	1	5
05:00	0	3	2	0	5	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	8
05:15	0	0	1	1	2	0	0	4	1	5	0	2	0	0	2	0	0	2	0	2	2	11
05:30	0	1	1	0	2	0	1	1	0	2	0	0	0	0	0	0	0	3	2	5	9	
05:45	0	1	1	1	3	0	0	2	0	2	0	0	0	0	0	0	0	0	3	3	8	
Total	0	5	5	2	12	0	1	10	1	12	0	2	0	0	2	0	0	5	5	10	36	
06:00	0	0	3	0	3	0	1	6	0	7	0	3	0	0	3	0	0	7	0	7	20	
06:15	0	2	13	2	17	0	1	3	0	4	0	1	1	0	2	0	0	5	1	6	29	
06:30	0	0	3	3	6	0	0	10	0	10	0	0	0	0	0	0	1	8	3	12	28	
06:45	0	0	2	2	4	0	2	9	0	11	0	2	0	0	2	0	0	10	0	10	27	
Total	0	2	21	7	30	0	4	28	0	32	0	6	1	0	7	0	1	30	4	35	104	
07:00	0	0	0	0	0	0	1	3	0	4	0	2	0	0	2	0	0	7	1	8	14	
07:15	0	0	0	1	1	0	0	5	0	5	0	2	0	1	3	0	0	3	4	7	16	
07:30	0	1	1	2	4	0	0	10	0	10	0	2	2	1	5	0	1	9	0	10	29	
07:45	0	0	1	3	4	0	1	9	0	10	0	1	2	0	3	0	0	6	5	11	28	
Total	0	1	2	6	9	0	2	27	0	29	0	7	4	2	13	0	1	25	10	36	87	
08:00	0	0	1	1	2	0	0	9	0	9	0	0	3	0	3	0	0	9	6	15	29	
08:15	0	0	1	0	1	0	0	8	0	8	0	3	0	0	3	0	2	11	2	15	27	
08:30	0	0	0	1	1	0	0	5	0	5	0	0	0	1	1	0	0	4	2	6	13	
08:45	0	0	0	0	0	0	0	7	0	7	0	0	3	0	3	0	0	4	2	6	16	
Total	0	0	2	2	4	0	0	29	0	29	0	3	6	1	10	0	2	28	12	42	85	
09:00	0	0	1	2	3	0	0	3	0	3	0	0	1	0	1	0	0	8	3	11	18	



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Weather: Hot & Cloudy
 CountCAM 200
 Study Conducted By: Ferin

File Name : TMC 1735
 Site Code :
 Start Date : 08/02/2017
 Page No : 2

Groups Printed- Trucks

Start Time	Nowthen Blvd Southbound					Viking Blvd Westbound					Nowthen Blvd Northbound					Viking Blvd 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	
09:15	0	1	3	0	4	0	1	4	0	5	0	0	1	0	1	0	0	6	1	7	17
09:30	0	1	0	1	2	0	0	9	0	9	0	0	0	1	1	0	0	2	1	3	15
09:45	0	0	1	2	3	0	0	3	0	3	0	0	1	0	1	0	1	7	2	10	17
Total	0	2	5	5	12	0	1	19	0	20	0	0	3	1	4	0	1	23	7	31	67
10:00	0	1	0	0	1	0	1	8	2	11	0	0	4	0	4	0	1	7	2	10	26
10:15	0	0	0	0	0	0	0	4	2	6	0	1	2	0	3	0	0	7	0	7	16
10:30	0	1	2	0	3	0	0	4	1	5	0	0	1	0	1	0	0	4	0	4	13
10:45	0	0	0	0	0	0	1	2	2	5	0	3	0	0	3	0	1	5	5	11	19
Total	0	2	2	0	4	0	2	18	7	27	0	4	7	0	11	0	2	23	7	32	74
11:00	0	0	0	0	0	0	0	4	0	4	0	1	0	0	1	0	2	4	0	6	11
11:15	0	0	2	0	2	0	0	7	0	7	0	0	2	0	2	0	0	7	1	8	19
11:30	0	0	1	0	1	0	1	2	0	3	0	0	0	0	0	0	0	3	1	4	8
11:45	0	0	0	0	0	0	1	1	0	2	0	1	3	1	5	0	0	6	2	8	15
Total	0	0	3	0	3	0	2	14	0	16	0	2	5	1	8	0	2	20	4	26	53
12:00	0	0	1	0	1	0	0	6	0	6	0	2	1	0	3	0	0	1	1	2	12
12:15	0	0	0	1	1	0	0	3	1	4	0	0	3	0	3	0	0	5	0	5	13
12:30	0	0	0	0	0	0	1	9	0	10	0	1	1	0	2	0	0	2	0	2	14
12:45	0	0	3	1	4	0	0	3	1	4	0	1	1	0	2	0	0	7	1	8	18
Total	0	0	4	2	6	0	1	21	2	24	0	4	6	0	10	0	0	15	2	17	57
13:00	0	0	1	0	1	0	0	7	0	7	0	0	2	0	2	0	1	7	3	11	21
13:15	0	1	3	1	5	0	0	2	0	2	0	0	0	0	0	0	0	3	0	3	10
13:30	0	0	1	0	1	0	1	4	0	5	0	2	2	0	4	0	0	6	1	7	17
13:45	0	0	2	1	3	0	1	6	2	9	0	0	0	0	0	0	2	1	6	9	21
Total	0	1	7	2	10	0	2	19	2	23	0	2	4	0	6	0	3	17	10	30	69
14:00	0	0	0	0	0	0	1	6	0	7	0	1	1	0	2	0	4	3	1	8	17
14:15	0	0	1	0	1	0	0	5	0	5	0	0	1	0	1	0	0	2	2	4	11
14:30	0	0	1	0	1	0	2	4	0	6	0	0	1	0	1	0	0	5	2	7	15
14:45	0	1	0	0	1	0	1	9	0	10	0	0	3	0	3	0	0	3	1	4	18
Total	0	1	2	0	3	0	4	24	0	28	0	1	6	0	7	0	4	13	6	23	61
15:00	0	0	1	0	1	0	0	4	0	4	0	3	1	1	5	0	0	2	3	5	15
15:15	0	0	1	0	1	0	2	5	2	9	0	3	4	1	8	0	3	12	4	19	37
15:30	0	1	0	0	1	0	0	1	3	4	0	0	1	1	2	0	1	4	1	6	13
15:45	0	1	2	1	4	0	0	7	2	9	0	2	2	1	5	0	0	7	0	7	25
Total	0	2	4	1	7	0	2	17	7	26	0	8	8	4	20	0	4	25	8	37	90
16:00	0	0	0	1	1	0	0	7	0	7	0	2	0	1	3	0	2	3	3	8	19
16:15	0	0	0	0	0	0	1	5	0	6	0	2	3	1	6	0	2	3	0	5	17
16:30	0	0	0	0	0	0	0	10	0	10	0	0	3	0	3	0	1	3	0	4	17
16:45	0	0	1	1	2	0	0	4	0	4	0	1	3	0	4	0	0	2	0	2	12
Total	0	0	1	2	3	0	1	26	0	27	0	5	9	2	16	0	5	11	3	19	65
17:00	0	0	0	0	0	0	1	6	0	7	0	0	1	0	1	0	0	4	0	4	12
17:15	0	0	0	1	1	0	0	2	0	2	0	2	0	0	2	0	0	7	1	8	13
17:30	0	0	0	0	0	0	1	3	1	5	0	0	2	0	2	0	0	4	1	5	12
17:45	0	0	0	0	0	0	0	4	0	4	0	2	3	0	5	0	3	2	0	5	14
Total	0	0	0	1	1	0	2	15	1	18	0	4	6	0	10	0	3	17	2	22	51
18:00	0	1	0	0	1	0	0	4	0	4	0	1	2	0	3	0	0	5	0	5	13
18:15	0	0	0	0	0	0	0	6	0	6	0	0	2	1	3	0	0	4	0	4	13
18:30	0	0	0	1	1	0	0	0	0	0	0	0	3	0	3	0	0	2	0	2	6
18:45	0	0	0	1	1	0	0	1	2	3	0	0	2	1	3	0	0	1	2	3	10
Total	0	1	0	2	3	0	0	11	2	13	0	1	9	2	12	0	0	12	2	14	42



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 1735
 Site Code :
 Start Date : 08/02/2017
 Page No : 3

Weather: Hot & Cloudy
 CountCAM 200
 Study Conducted By: Ferin

Groups Printed- Trucks

Start Time	Nowthen Blvd Southbound					Viking Blvd Westbound					Nowthen Blvd Northbound					Viking Blvd 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	
19:00	0	1	0	0	1	0	0	1	2	3	0	2	3	0	5	0	0	2	0	2	11
19:15	0	0	0	0	0	0	0	3	1	4	0	2	2	1	5	0	0	0	0	0	9
19:30	0	0	0	0	0	0	0	3	2	5	0	1	1	0	2	0	1	2	0	3	10
19:45	0	0	0	0	0	0	0	1	1	2	0	1	0	0	1	0	0	1	1	2	5
Total	0	1	0	0	1	0	0	8	6	14	0	6	6	1	13	0	1	5	1	7	35
20:00	0	0	0	0	0	0	0	0	1	1	0	1	0	1	2	0	0	0	0	0	3
20:15	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	1	0	1	3
20:30	0	1	0	0	1	0	0	0	1	1	0	0	1	0	1	0	0	1	0	1	4
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	1	0	0	1	0	0	1	3	4	0	1	2	1	4	0	0	2	0	2	11
21:00	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5	7
21:15	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	1	0	0	1	3
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	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	0	2	0	2	0	0	1	1	2	0	0	0	0	0	0	1	7	0	8	12
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
22:15	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	2
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	1	0	1	1
Total	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	2	0	2	4
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	1	0	1	0	2	0	0	2	0	0	0	0	0	3
23:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	0	0	1	0	0	1	0	1	0	2	0	0	2	0	0	0	0	0	4
Grand Total	0	20	61	32	113	0	26	293	33	352	0	59	89	15	163	0	30	283	83	396	1024
Apprch %	0	17.7	54	28.3		0	7.4	83.2	9.4		0	36.2	54.6	9.2		0	7.6	71.5	21		
Total %	0	2	6	3.1	11	0	2.5	28.6	3.2	34.4	0	5.8	8.7	1.5	15.9	0	2.9	27.6	8.1	38.7	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 1735

Study Date : 02/02/2018

Signal Warrants - Summary

Major Street Approaches

Eastbound: Viking Blvd

Number of Lanes : 1

Total Approach Volume: 4,098

Westbound: Viking Blvd

Number of Lanes : 1

Total Approach Volume: 3,366

Minor Street Approaches

Northbound: Nowthen Blvd

Number of Lanes : 1

Total Approach Volume: 2,048

Southbound: Nowthen Blvd

Number of Lanes : 1

Total Approach Volume: 1,736

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 10 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Not Satisfied

Required volumes reached for 3 hours, 8 are needed

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

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

Required 1B volumes reached for 9 hours, 8 are needed

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

Number of hours (6) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (13) 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 1735
 Study Date : 02/02/2018

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

10 one hour periods meet minimums.
 Warrant IS met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **1**
 Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **350**
 Veh/Hr Minor = **105**

Time	Major Road Viking Blvd				Total	Minor Road Nowthen Blvd		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
17:15 - 18:15	382	+	320	=	702	176	90	Yes
16:15 - 17:15	378	+	303	=	681	257	99	Yes
15:15 - 16:15	352	+	247	=	599	267	106	Yes
18:15 - 19:15	289	+	181	=	470	158	105	Yes
14:15 - 15:15	277	+	185	=	462	124	97	Yes
07:30 - 08:30	224	+	232	=	456	85	116	Yes
06:30 - 07:30	211	+	234	=	445	63	155	Yes
13:15 - 14:15	221	+	174	=	395	114	81	Yes
05:30 - 06:30	157	+	214	=	371	50	172	Yes
11:15 - 12:15	203	+	165	=	368	125	91	Yes
08:30 - 09:30	222	+	198	=	420	104	97	No
08:45 - 09:45	196	+	195	=	391	97	100	No
13:00 - 14:00	228	+	160	=	388	101	81	No
12:45 - 13:45	214	+	157	=	371	100	80	No
12:30 - 13:30	201	+	155	=	356	97	86	No
11:00 - 12:00	192	+	157	=	349	81	84	No
19:15 - 20:15	196	+	147	=	343	105	88	No
09:00 - 10:00	167	+	170	=	337	90	94	No
10:00 - 11:00	165	+	168	=	333	70	81	No
12:15 - 13:15	190	+	142	=	332	112	88	No
10:45 - 11:45	178	+	153	=	331	78	78	No
10:30 - 11:30	176	+	155	=	331	76	77	No
05:15 - 06:15	129	+	202	=	331	38	146	No
09:15 - 10:15	150	+	179	=	329	75	96	No
09:45 - 10:45	158	+	165	=	323	69	83	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 1735

Study Date : 02/02/2018

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Summary

Only 3 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = True
 Number of Major Lanes = 1
 Number of Minor Lanes = 1

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = 525
 Veh/Hr Minor = 52

Time	Major Road			=	Total	Minor Road		Met?
	Major EB	+	Major WB			Minor NB	Minor SB	
17:00 - 18:00	423	+	318	=	741	198	93	Yes
16:00 - 17:00	368	+	286	=	654	265	95	Yes
15:00 - 16:00	326	+	228	=	554	242	113	Yes
14:45 - 15:45	307	+	212	=	519	192	100	No
18:00 - 19:00	291	+	218	=	509	166	103	No
14:30 - 15:30	288	+	215	=	503	159	99	No
18:15 - 19:15	289	+	181	=	470	158	105	No
14:15 - 15:15	277	+	185	=	462	124	97	No
06:00 - 07:00	209	+	250	=	459	66	184	No
07:30 - 08:30	224	+	232	=	456	85	116	No
06:15 - 07:15	215	+	240	=	455	71	173	No
14:00 - 15:00	252	+	201	=	453	120	86	No
07:15 - 08:15	219	+	226	=	445	81	133	No
07:00 - 08:00	219	+	226	=	445	79	144	No
06:30 - 07:30	211	+	234	=	445	63	155	No
07:45 - 08:45	227	+	216	=	443	70	104	No
08:00 - 09:00	224	+	217	=	441	79	94	No
18:30 - 19:30	265	+	174	=	439	138	93	No
08:15 - 09:15	230	+	208	=	438	95	88	No
06:45 - 07:45	206	+	229	=	435	80	149	No
13:45 - 14:45	251	+	182	=	433	117	89	No
18:45 - 19:45	247	+	173	=	420	102	83	No
08:30 - 09:30	222	+	198	=	420	104	97	No
05:45 - 06:45	188	+	232	=	420	57	176	No
13:30 - 14:30	241	+	168	=	409	117	81	No

ANOKA COUNTY HIGHWAY PC-WARRANTS TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 1735
Study Date : 02/02/2018

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Summary

15 hours meet 1A minimums.
9 hours meet 1B minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = True
Number of Major Lanes = 1
Number of Minor Lanes = 1

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = 280 420

Veh/Hr Minor = 84 42

Major Road Viking Blvd

Minor Road Nowthen Blvd

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
17:00 - 18:00	423	+	318	=	741	198	93	Yes
16:00 - 17:00	368	+	286	=	654	265	95	Yes
15:00 - 16:00	326	+	228	=	554	242	113	Yes
18:00 - 19:00	291	+	218	=	509	166	103	Yes
06:00 - 07:00	209	+	250	=	459	66	184	Yes
14:00 - 15:00	252	+	201	=	453	120	86	Yes
07:00 - 08:00	219	+	226	=	445	79	144	Yes
08:00 - 09:00	224	+	217	=	441	79	94	Yes
13:00 - 14:00	228	+	160	=	388	101	81	Yes
19:00 - 20:00	210	+	157	=	367	92	99	Yes
11:00 - 12:00	192	+	157	=	349	81	84	Yes
09:00 - 10:00	167	+	170	=	337	90	94	Yes

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:45 - 17:45	418	+	319	=	737	216	94	Yes
15:45 - 16:45	362	+	297	=	659	271	101	Yes
17:45 - 18:45	301	+	233	=	534	194	108	Yes
14:45 - 15:45	307	+	212	=	519	192	100	Yes
07:45 - 08:45	227	+	216	=	443	70	104	Yes
06:45 - 07:45	206	+	229	=	435	80	149	Yes
13:45 - 14:45	251	+	182	=	433	117	89	Yes
18:45 - 19:45	247	+	173	=	420	102	83	Yes
05:45 - 06:45	188	+	232	=	420	57	176	Yes
13:30 - 14:30	241	+	168	=	409	117	81	No
13:15 - 14:15	221	+	174	=	395	114	81	No
08:45 - 09:45	196	+	195	=	391	97	100	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 1735
 Study Date : 02/02/2018

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.

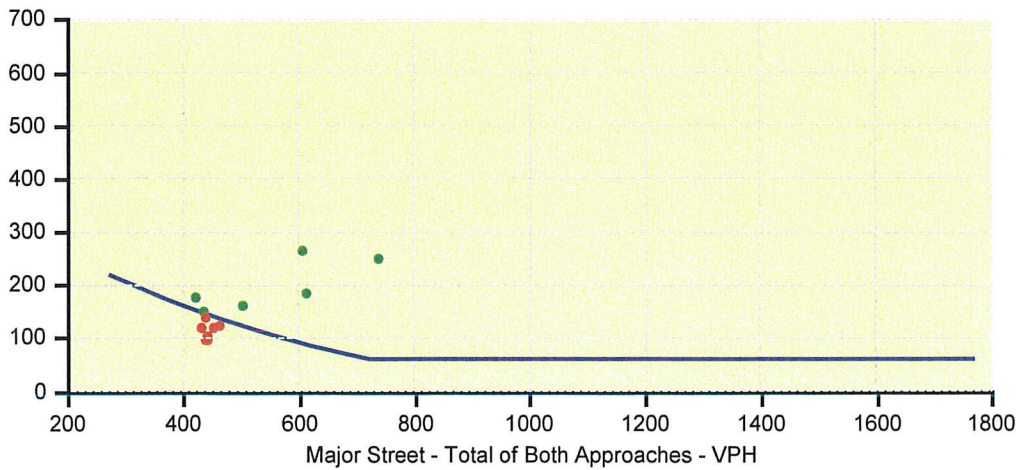
Summary

6 one hour periods meet minimums.
 Warrant IS met.

Site Data Required

Rural Settings Apply = True
 Number of Major Lanes = 1
 Number of Minor Lanes = 1

Time	Major Road Viking Blvd			=	Total	Minor Road Nowthen Blvd		Met?
	Major EB	+	Major WB			Minor NB	Minor SB	
16:30 - 17:30	414	+	322	=	736	247	101	Yes
17:30 - 18:30	346	+	266	=	612	183	97	Yes
15:30 - 16:30	341	+	264	=	605	263	102	Yes
14:30 - 15:30	288	+	215	=	503	159	99	Yes
06:45 - 07:45	206	+	229	=	435	80	149	Yes
05:45 - 06:45	188	+	232	=	420	57	176	Yes
14:15 - 15:15	277	+	185	=	462	124	97	No
14:00 - 15:00	252	+	201	=	453	120	86	No
07:45 - 08:45	227	+	216	=	443	70	104	No
08:00 - 09:00	224	+	217	=	441	79	94	No
18:30 - 19:30	265	+	174	=	439	138	93	No
							88	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 1735

Study Date : 02/02/2018

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

11 one hour periods meet minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = True
 Number of Major Lanes = 1
 Number of Minor Lanes = 1

Time	Major Road Viking Blvd				Total	Minor Road Nowthen Blvd		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
17:00 - 18:00	423	+	318	=	741	198	93	Yes
16:45 - 17:45	418	+	319	=	737	216	94	Yes
16:30 - 17:30	414	+	322	=	736	247	101	Yes
17:15 - 18:15	382	+	320	=	702	176	90	Yes
16:15 - 17:15	378	+	303	=	681	257	99	Yes
15:45 - 16:45	362	+	297	=	659	271	101	Yes
16:00 - 17:00	368	+	286	=	654	265	95	Yes
17:30 - 18:30	346	+	266	=	612	183	97	Yes
15:30 - 16:30	341	+	264	=	605	263	102	Yes
15:15 - 16:15	352	+	247	=	599	267	106	Yes
15:00 - 16:00	326	+	228	=	554	242	113	Yes
							108	No

