

Date : 03/07/23

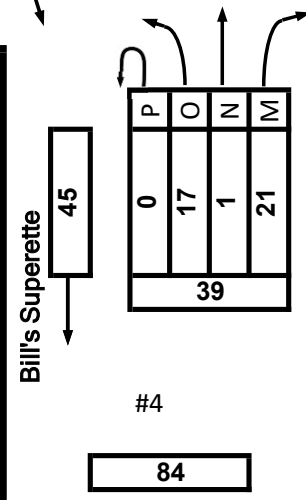
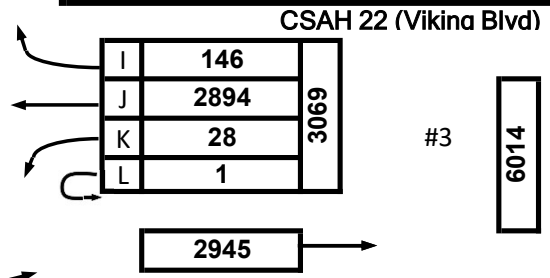
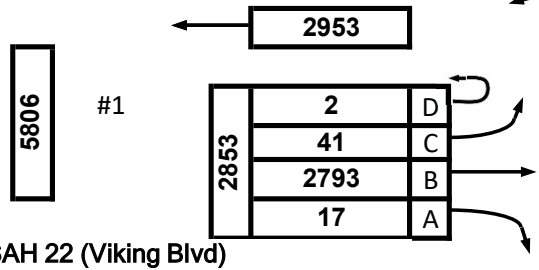
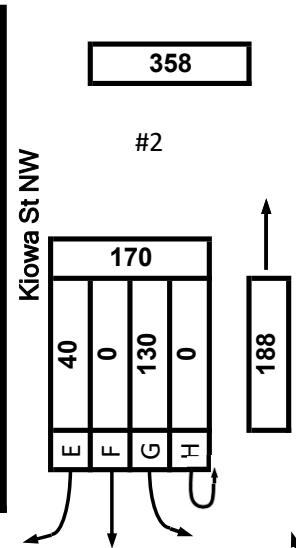
Count Number : TMC 2327

Location : CSAH 22 (Viking Blvd)
@ Kiowa St NW

Collection Period : 24 HR



North



CSAH 22 (Viking Blvd)

CSAH 22 (Viking Blvd)

Bill's Superette

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

Anoka County Highway Department

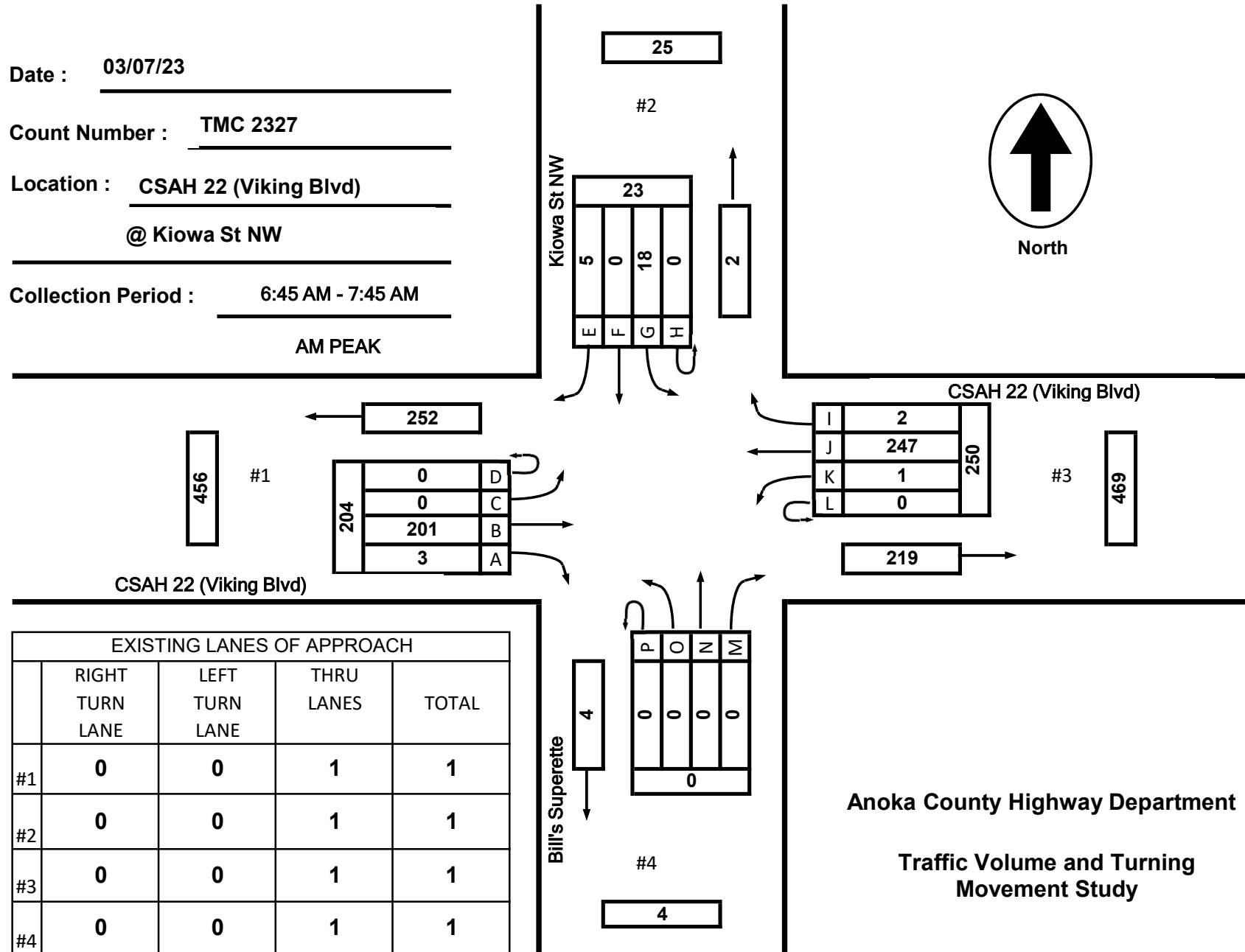
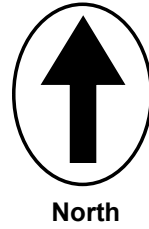
Traffic Volume and Turning Movement Study

Date : 03/07/23

Count Number : TMC 2327

Location : CSAH 22 (Viking Blvd)
@ Kiowa St NW

Collection Period : 6:45 AM - 7:45 AM
AM PEAK



Anoka County Highway Department

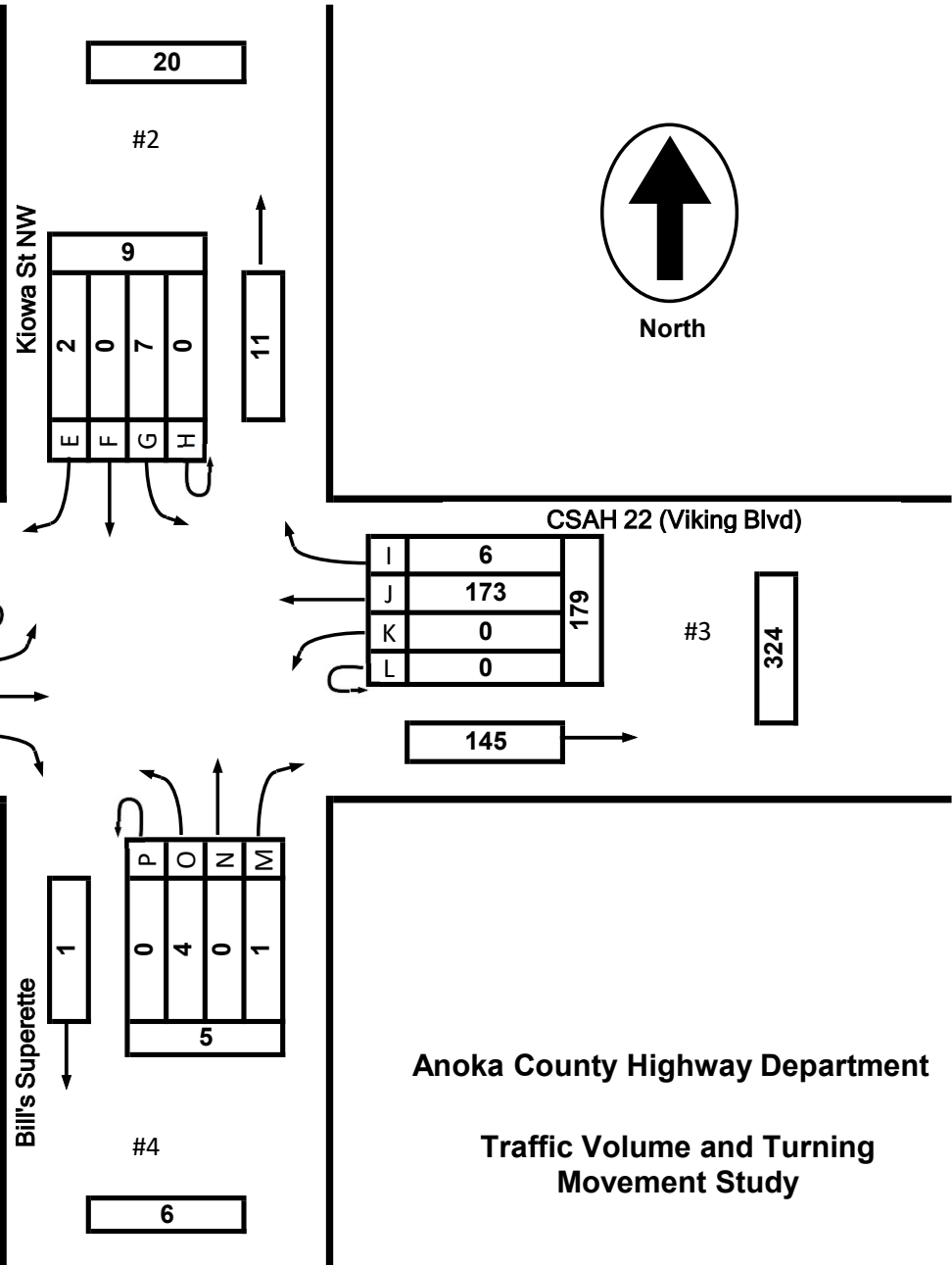
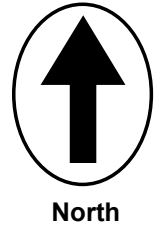
Traffic Volume and Turning Movement Study

Date : 03/07/23

Count Number : TMC 2327

Location : CSAH 22 (Viking Blvd)
@ Kiowa St NW

Collection Period : 1 PM - 2 PM
MIDDAY PEAK



CSAH 22 (Viking Blvd)

CSAH 22 (Viking Blvd)

Bill's Superette

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

Anoka County Highway Department

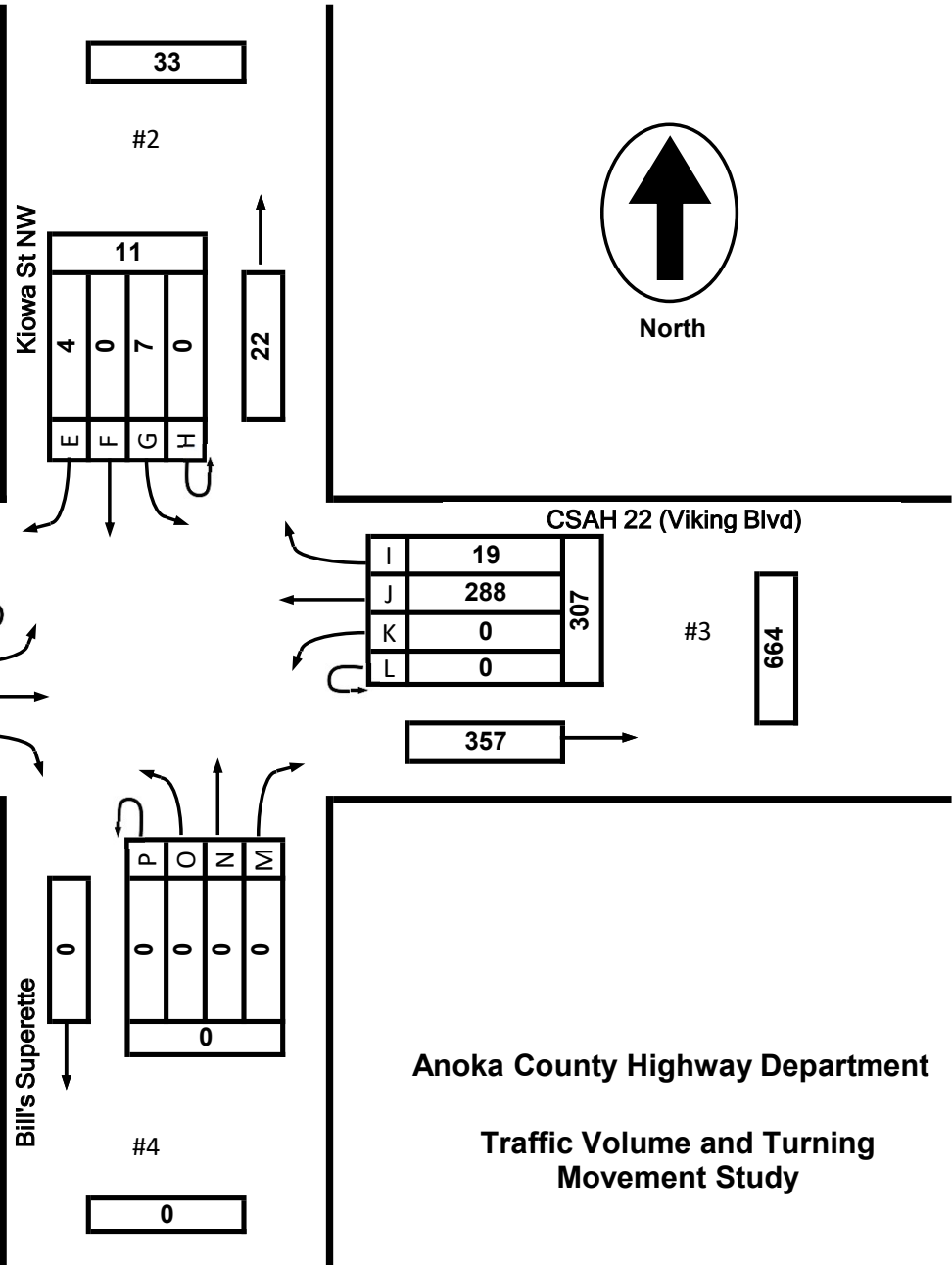
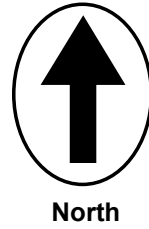
Traffic Volume and Turning Movement Study

Date : 03/07/23

Count Number : TMC 2327

Location : CSAH 22 (Viking Blvd)
@ Kiowa St NW

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



CSAH 22 (Viking Blvd)

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

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 2327
 Site Code :
 Start Date : 03/07/2023
 Page No : 1

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

Groups Printed- Cars + - Trucks

Start Time	Kiowa St NW Southbound						CSAH 22 (Viking Blvd) Westbound						Bill's Superette Northbound						CSAH 22 (Viking 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	0	0	0	0	0	0	1	2	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0	2	0	5	5
00:15	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	2	0	4	4
00:30	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	5	0	0	0	5	0	7	7
00:45	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	1	0	0	0	1	0	3	3	
Total	0	0	0	0	0	0	1	8	0	0	0	9	0	0	0	0	0	0	10	0	0	0	10	0	19	19	
01:00	0	0	0	0	0	0	4	1	0	0	0	5	0	0	0	0	0	0	4	0	0	0	4	0	9	9	
01:15	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	2	2	
01:30	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	2	0	3	3	
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	
Total	0	0	0	0	0	0	5	2	0	0	0	7	0	0	0	0	0	0	8	0	0	0	8	0	15	15	
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	3	3	
02:15	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	4	0	0	0	4	0	6	6	
02:30	1	0	4	0	0	5	0	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	2	0	8	8	
02:45	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	5	0	0	0	5	0	7	7	
Total	1	0	4	0	0	5	1	4	0	0	0	5	0	0	0	0	0	0	14	0	0	0	14	0	24	24	
03:00	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	1	0	0	0	1	0	3	3	
03:15	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	2	3	0	0	0	5	0	8	8	
03:30	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	1	0	0	0	1	0	5	5	
03:45	0	0	1	0	0	1	0	4	0	0	0	4	0	0	0	0	0	0	4	0	0	0	4	0	9	9	
Total	0	0	1	0	0	1	0	13	0	0	0	13	0	0	0	0	0	2	9	0	0	0	11	0	25	25	
04:00	0	0	0	0	0	0	0	10	0	0	0	10	0	0	0	0	0	0	4	0	0	0	4	0	14	14	
04:15	0	0	1	0	0	1	0	8	0	0	0	8	0	0	0	0	0	0	7	0	0	0	7	0	16	16	
04:30	0	0	0	0	0	0	0	15	0	0	0	15	0	0	0	0	0	0	7	0	0	0	7	0	22	22	
04:45	0	0	1	0	0	1	1	16	0	0	0	17	0	0	0	0	0	0	5	0	0	0	5	0	23	23	
Total	0	0	2	0	0	2	1	49	0	0	0	50	0	0	0	0	0	0	23	0	0	0	23	0	75	75	
05:00	0	0	3	0	0	3	0	24	0	0	0	24	0	0	0	0	0	0	15	0	0	0	15	0	42	42	
05:15	0	0	2	0	0	2	0	38	0	0	0	38	0	0	0	0	0	1	13	0	0	0	14	0	54	54	
05:30	0	0	2	0	0	2	0	37	2	0	0	39	0	0	0	0	0	0	25	0	0	0	25	0	66	66	
05:45	0	0	0	0	0	0	0	47	1	0	0	48	0	0	0	0	0	1	23	0	0	0	24	0	72	72	
Total	0	0	7	0	0	7	0	146	3	0	0	149	0	0	0	0	0	2	76	0	0	0	78	0	234	234	



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2327
 Site Code :
 Start Date : 03/07/2023
 Page No : 2

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

Groups Printed- Cars + - Trucks

Start Time	Kiowa St NW Southbound						CSAH 22 (Viking Blvd) Westbound						Bill's Superette Northbound						CSAH 22 (Viking 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	0	0	4	0	0	4	0	46	1	0	0	47	0	0	0	0	0	0	0	33	0	0	0	33	0	84	84
06:15	1	0	5	0	0	6	0	50	0	0	0	50	0	0	0	0	0	0	0	39	0	0	0	39	0	95	95
06:30	0	0	5	0	0	5	0	53	0	0	0	53	0	0	0	0	0	0	0	41	1	0	0	42	0	100	100
06:45	2	0	6	0	0	8	1	62	1	0	0	64	0	0	0	0	0	0	1	50	0	0	0	51	0	123	123
Total	3	0	20	0	0	23	1	211	2	0	0	214	0	0	0	0	0	0	1	163	1	0	0	165	0	402	402
07:00	0	0	5	0	0	5	0	55	0	0	0	55	0	0	0	0	0	0	0	44	0	0	0	44	0	104	104
07:15	0	0	4	0	0	4	1	49	0	0	0	50	0	0	0	0	0	0	1	53	0	0	0	54	0	108	108
07:30	3	0	3	0	0	6	0	81	0	0	0	81	0	0	0	0	0	0	1	54	0	0	0	55	0	142	142
07:45	0	0	2	0	0	2	0	48	1	0	0	49	1	0	0	0	0	1	0	59	0	0	0	59	0	111	111
Total	3	0	14	0	0	17	1	233	1	0	0	235	1	0	0	0	1	2	210	0	0	0	212	0	465	465	
08:00	1	0	3	0	0	4	0	40	0	0	0	40	0	0	1	0	0	1	1	44	2	0	0	47	0	92	92
08:15	1	0	1	0	0	2	2	40	1	0	0	43	0	0	1	0	0	1	0	45	0	0	0	45	0	91	91
08:30	1	0	2	0	0	3	2	42	2	0	0	46	1	0	0	0	0	1	1	38	2	0	0	41	0	91	91
08:45	0	0	1	0	0	1	1	27	0	0	0	28	1	0	2	0	0	3	0	35	0	0	0	35	0	67	67
Total	3	0	7	0	0	10	5	149	3	0	0	157	2	0	4	0	6	2	162	4	0	0	168	0	341	341	
09:00	1	0	4	0	0	5	3	32	0	0	0	35	1	0	0	0	0	1	2	44	0	0	0	46	0	87	87
09:15	2	0	2	0	0	4	0	45	1	0	0	46	0	0	0	0	0	0	0	32	0	0	0	32	0	82	82
09:30	1	0	3	0	0	4	0	36	0	0	0	36	0	0	2	0	0	2	0	30	1	0	0	31	0	73	73
09:45	2	0	2	0	0	4	0	37	0	0	0	37	0	0	0	0	0	0	0	29	0	0	0	29	0	70	70
Total	6	0	11	0	0	17	3	150	1	0	0	154	1	0	2	0	3	2	135	1	0	0	138	0	312	312	
10:00	0	0	1	0	0	1	2	34	1	0	0	37	1	0	0	0	0	1	0	31	1	0	0	32	0	71	71
10:15	1	0	2	0	0	3	3	22	1	0	0	26	1	0	0	0	0	1	1	25	0	1	0	27	0	57	57
10:30	0	0	1	0	0	1	0	26	0	1	0	27	0	0	0	0	0	0	0	34	0	0	0	34	0	62	62
10:45	0	0	0	0	0	0	2	24	1	0	0	27	0	0	1	0	0	1	0	27	0	0	0	27	0	55	55
Total	1	0	4	0	0	5	7	106	3	1	0	117	2	0	1	0	3	1	117	1	1	0	120	0	245	245	
11:00	1	0	3	0	0	4	4	31	3	0	0	38	1	0	1	0	0	2	0	32	0	0	0	32	0	76	76
11:15	0	0	1	0	0	1	0	33	0	0	0	33	0	0	1	0	0	1	0	30	1	0	0	31	0	66	66
11:30	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	0	0	0	0	34	1	0	0	35	0	67	67
11:45	0	0	1	0	0	1	0	44	0	0	0	44	1	0	0	0	0	1	0	41	2	0	0	43	0	89	89
Total	1	0	5	0	0	6	4	140	3	0	0	147	2	0	2	0	4	0	137	4	0	0	141	0	298	298	
12:00	1	0	2	0	0	3	1	45	2	0	0	48	2	0	0	0	0	2	1	23	1	0	0	25	0	78	78
12:15	0	0	1	0	0	1	1	39	2	0	0	42	1	0	0	0	0	1	0	31	1	0	0	32	0	76	76
12:30	0	0	4	0	0	4	2	46	3	0	0	51	0	0	0	0	0	0	0	34	0	0	0	34	0	89	89



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2327
 Site Code :
 Start Date : 03/07/2023
 Page No : 3

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

Groups Printed- Cars + - Trucks

Start Time	Kiowa St NW Southbound						CSAH 22 (Viking Blvd) Westbound						Bill's Superette Northbound						CSAH 22 (Viking 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	0	0	1	0	0	1	5	29	0	0	0	34	3	0	0	0	0	3	3	26	0	0	0	29	0	67	67
Total	1	0	8	0	0	9	9	159	7	0	0	175	6	0	0	0	0	6	4	114	2	0	0	120	0	310	310
13:00	0	0	1	0	0	1	1	34	0	0	0	35	1	0	0	0	0	1	0	40	3	0	0	43	0	80	80
13:15	1	0	2	0	0	3	1	44	0	0	0	45	0	0	1	0	0	1	0	35	0	0	0	35	0	84	84
13:30	0	0	3	0	0	3	3	45	0	0	0	48	0	0	1	0	0	1	1	30	0	0	0	31	0	83	83
13:45	1	0	1	0	0	2	1	50	0	0	0	51	0	0	2	0	0	2	0	32	2	0	0	34	0	89	89
Total	2	0	7	0	0	9	6	173	0	0	0	179	1	0	4	0	0	5	1	137	5	0	0	143	0	336	336
14:00	1	0	1	0	0	2	1	32	1	0	0	34	3	0	0	0	0	3	0	34	0	0	0	34	0	73	73
14:15	0	0	1	0	0	1	2	40	0	0	0	42	1	0	1	0	0	2	0	41	1	0	0	42	0	87	87
14:30	0	0	4	0	0	4	5	52	0	0	0	57	0	0	1	0	0	1	0	46	1	1	0	48	0	110	110
14:45	1	0	3	0	0	4	3	43	0	0	0	46	0	0	0	0	0	0	0	48	0	0	0	48	0	98	98
Total	2	0	9	0	0	11	11	167	1	0	0	179	4	0	2	0	0	6	0	169	2	1	0	172	0	368	368
15:00	0	0	0	0	0	0	4	48	1	0	0	53	0	0	0	0	0	0	0	60	1	0	0	61	0	114	114
15:15	1	0	0	0	0	1	4	62	0	0	0	66	1	0	0	0	0	1	0	63	1	0	0	64	0	132	132
15:30	2	0	1	0	0	3	2	56	0	0	0	58	0	0	0	0	0	0	0	74	0	0	0	74	0	135	135
15:45	1	0	1	0	0	2	2	64	0	0	0	66	1	0	0	0	0	1	0	75	1	0	0	76	0	145	145
Total	4	0	2	0	0	6	12	230	1	0	0	243	2	0	0	0	0	2	0	272	3	0	0	275	0	526	526
16:00	1	0	0	0	0	1	6	69	1	0	0	76	0	0	0	0	0	0	0	72	0	0	0	72	0	149	149
16:15	2	0	5	0	0	7	6	69	0	0	0	75	0	0	0	0	0	0	0	108	2	0	0	110	0	192	192
16:30	0	0	0	0	0	0	7	77	0	0	0	84	0	0	0	0	0	0	0	82	0	0	0	82	0	166	166
16:45	2	0	1	0	0	3	4	75	0	0	0	79	0	0	0	0	0	0	0	79	0	0	0	79	0	161	161
Total	5	0	6	0	0	11	23	290	1	0	0	314	0	0	0	0	0	0	0	341	2	0	0	343	0	668	668
17:00	0	0	1	0	0	1	2	67	0	0	0	69	0	0	0	0	0	0	0	81	1	0	0	82	0	152	152
17:15	0	0	0	0	0	0	2	75	0	0	0	77	0	0	0	0	0	0	0	74	3	0	0	77	0	154	154
17:30	1	0	1	0	0	2	4	57	1	0	0	62	0	0	2	0	0	2	0	50	3	0	0	53	0	119	119
17:45	1	0	2	0	0	3	7	58	0	0	0	65	0	0	0	0	0	0	0	49	1	0	0	50	0	118	118
Total	2	0	4	0	0	6	15	257	1	0	0	273	0	0	2	0	0	2	0	254	8	0	0	262	0	543	543
18:00	0	0	1	0	0	1	1	46	0	0	0	47	0	0	0	0	0	0	0	48	0	0	0	48	0	96	96
18:15	0	0	0	0	0	0	0	34	0	0	0	34	0	0	0	0	0	0	0	49	0	0	0	49	0	83	83
18:30	0	0	1	0	0	1	4	31	0	0	0	35	0	0	0	0	0	0	0	38	1	0	0	39	0	75	75
18:45	0	0	5	0	0	5	5	21	0	0	0	26	0	0	0	0	0	0	0	46	0	0	0	46	0	77	77
Total	0	0	7	0	0	7	10	132	0	0	0	142	0	0	0	0	0	0	0	181	1	0	0	182	0	331	331



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2327
 Site Code :
 Start Date : 03/07/2023
 Page No : 4

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

Groups Printed- Cars + - Trucks

Start Time	Kiowa St NW Southbound						CSAH 22 (Viking Blvd) Westbound						Bill's Superette Northbound						CSAH 22 (Viking 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	0	0	1	0	0	1	0	27	0	0	0	27	0	0	0	0	0	0	0	27	0	0	0	0	27	0	55	55
19:15	0	0	0	0	0	0	2	24	0	0	0	26	0	0	0	0	0	0	0	22	0	0	0	22	0	48	48	
19:30	0	0	1	0	0	1	0	24	0	0	0	24	0	0	0	0	0	0	0	20	0	0	0	20	0	45	45	
19:45	0	0	1	0	0	1	0	25	0	0	0	25	0	0	0	0	0	0	0	18	0	0	0	18	0	44	44	
Total	0	0	3	0	0	3	2	100	0	0	0	102	0	0	0	0	0	0	0	87	0	0	0	87	0	192	192	
20:00	1	0	2	0	0	3	1	17	0	0	0	18	0	0	0	0	0	0	0	25	0	0	0	25	0	46	46	
20:15	1	0	0	0	0	1	2	18	0	0	0	20	0	0	0	0	0	0	0	19	2	0	0	21	0	42	42	
20:30	0	0	0	0	0	0	3	24	0	0	0	27	0	0	0	0	0	0	0	23	1	0	0	24	0	51	51	
20:45	2	0	0	0	0	2	1	16	0	0	0	17	0	0	0	0	0	0	0	21	0	0	0	21	0	40	40	
Total	4	0	2	0	0	6	7	75	0	0	0	82	0	0	0	0	0	0	0	88	3	0	0	91	0	179	179	
21:00	1	0	0	0	0	1	2	12	0	0	0	14	0	0	0	0	0	0	0	13	1	0	0	14	0	29	29	
21:15	0	0	1	0	0	1	1	13	0	0	0	14	0	0	0	0	0	0	0	10	1	0	0	11	0	26	26	
21:30	1	0	1	0	0	2	2	18	0	0	0	20	0	0	0	0	0	0	0	15	1	0	0	16	0	38	38	
21:45	0	0	2	0	0	2	6	8	0	0	0	14	0	0	0	0	0	0	0	13	0	0	0	13	0	29	29	
Total	2	0	4	0	0	6	11	51	0	0	0	62	0	0	0	0	0	0	0	51	3	0	0	54	0	122	122	
22:00	0	0	0	0	0	0	0	12	0	0	0	12	0	0	0	0	0	0	0	9	0	0	0	9	0	21	21	
22:15	0	0	0	0	0	0	3	5	0	0	0	8	0	0	0	0	0	0	0	6	0	0	0	6	0	14	14	
22:30	0	0	1	0	0	1	0	7	0	0	0	7	0	0	0	0	0	0	0	6	1	0	0	7	0	15	15	
22:45	0	0	0	0	0	0	4	6	0	0	0	10	0	0	0	0	0	0	0	2	0	0	0	2	0	12	12	
Total	0	0	1	0	0	1	7	30	0	0	0	37	0	0	0	0	0	0	0	23	1	0	0	24	0	62	62	
23:00	0	0	1	0	0	1	3	3	0	0	0	6	0	0	0	0	0	0	0	4	0	0	0	4	0	11	11	
23:15	0	0	0	0	0	0	0	4	1	0	0	5	0	1	0	0	0	1	0	6	0	0	0	6	0	12	12	
23:30	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	2	0	0	0	2	0	7	7	
23:45	0	0	1	0	0	1	1	7	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	
Total	0	0	2	0	0	2	4	19	1	0	0	24	0	1	0	0	0	1	0	12	0	0	0	12	0	39	39	
Grand Total	40	0	130	0	0	170	146	2894	28	1	0	3069	21	1	17	0	0	39	17	2793	41	2	0	2853	0	6131	6131	
Apprch %	23.5	0	76.5	0	0	0	4.8	94.3	0.9	0	0	0	53.8	2.6	43.6	0	0	0	0.6	97.9	1.4	0.1	0	0	0	100	100	
Total %	0.7	0	2.1	0	0	2.8	2.4	47.2	0.5	0	0	50.1	0.3	0	0.3	0	0.6	0.3	45.6	0.7	0	0	46.5	0	100	100		
Cars +	39	0	126	0	0	165	143	2722	27	1	0	2893	16	1	12	0	29	12	2634	40	1	0	2687	0	0	5774		
% Cars +	97.5	0	96.9	0	0	97.1	97.9	94.1	96.4	100	0	94.3	76.2	100	70.6	0	74.4	70.6	94.3	97.6	50	0	94.2	0	0	94.2		
Trucks	1	0	4	0	0	5	3	172	1	0	0	176	5	0	5	0	10	5	159	1	1	0	166	0	0	357		
% Trucks	2.5	0	3.1	0	0	2.9	2.1	5.9	3.6	0	0	5.7	23.8	0	29.4	0	25.6	29.4	5.7	2.4	50	0	5.8	0	0	5.8		



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2327
 Site Code :
 Start Date : 03/07/2023
 Page No : 5

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

Start Time	Kiowa St NW Southbound					CSAH 22 (Viking Blvd) Westbound					Bill's Superette Northbound					CSAH 22 (Viking 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 06:45																					
06:45	2	0	6	0	8	1	62	1	0	64	0	0	0	0	0	1	50	0	0	51	123
07:00	0	0	5	0	5	0	55	0	0	55	0	0	0	0	0	0	44	0	0	44	104
07:15	0	0	4	0	4	1	49	0	0	50	0	0	0	0	0	1	53	0	0	54	108
07:30	3	0	3	0	6	0	81	0	0	81	0	0	0	0	0	1	54	0	0	55	142
Total Volume	5	0	18	0	23	2	247	1	0	250	0	0	0	0	0	3	201	0	0	204	477
% App. Total	21.7	0	78.3	0		0.8	98.8	0.4	0		0	0	0	0		1.5	98.5	0	0		
PHF	.417	.000	.750	.000	.719	.500	.762	.250	.000	.772	.000	.000	.000	.000	.000	.750	.931	.000	.000	.927	.840

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	0	1	0	1	1	34	0	0	35	1	0	0	0	1	0	40	3	0	43	80
13:15	1	0	2	0	3	1	44	0	0	45	0	0	1	0	1	0	35	0	0	35	84
13:30	0	0	3	0	3	3	45	0	0	48	0	0	1	0	1	1	30	0	0	31	83
13:45	1	0	1	0	2	1	50	0	0	51	0	0	2	0	2	0	32	2	0	34	89
Total Volume	2	0	7	0	9	6	173	0	0	179	1	0	4	0	5	1	137	5	0	143	336
% App. Total	22.2	0	77.8	0		3.4	96.6	0	0		20	0	80	0		0.7	95.8	3.5	0		
PHF	.500	.000	.583	.000	.750	.500	.865	.000	.000	.877	.250	.000	.500	.000	.625	.250	.856	.417	.000	.831	.944

Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:15																					
16:15	2	0	5	0	7	6	69	0	0	75	0	0	0	0	0	0	108	2	0	110	192
16:30	0	0	0	0	0	7	77	0	0	84	0	0	0	0	0	0	82	0	0	82	166
16:45	2	0	1	0	3	4	75	0	0	79	0	0	0	0	0	0	79	0	0	79	161
17:00	0	0	1	0	1	2	67	0	0	69	0	0	0	0	0	0	81	1	0	82	152
Total Volume	4	0	7	0	11	19	288	0	0	307	0	0	0	0	0	0	350	3	0	353	671
% App. Total	36.4	0	63.6	0		6.2	93.8	0	0		0	0	0	0		0	99.2	0.8	0		
PHF	.500	.000	.350	.000	.393	.679	.935	.000	.000	.914	.000	.000	.000	.000	.000	.000	.810	.375	.000	.802	.874



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2327
 Site Code :
 Start Date : 03/07/2023
 Page No : 1

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

Groups Printed- Trucks

Start Time	Kiowa St NW Southbound					CSAH 22 (Viking Blvd) Westbound					Bill's Superette Northbound					CSAH 22 (Viking 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	1	0	0	0	1	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	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	1	0	0	0	1	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
04:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	0	2	3
Total	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3	0	0	0	3	5
05:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	2
05:15	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	0	1	3
05:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
05:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2
Total	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	5	0	0	0	5	8
06:00	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	3	0	0	0	3	7
06:15	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	1	0	0	0	1	7
06:30	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
06:45	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	0	2	4
Total	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	0	6	0	0	0	6	22
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	3
07:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3	0	0	0	3	4
07:30	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	2	0	0	0	2	8
07:45	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	3	0	0	0	3	5
Total	0	0	0	0	0	0	8	0	0	8	1	0	0	0	1	0	11	0	0	0	11	20
08:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	4	0	0	0	5	6
08:15	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	5	0	0	0	5	8
08:30	0	0	0	0	0	0	4	1	0	5	1	0	0	0	1	0	5	1	0	0	6	12
08:45	0	0	0	0	0	0	2	0	0	2	1	0	2	0	3	0	5	0	0	0	5	10
Total	0	0	0	0	0	0	10	1	0	11	2	0	2	0	4	1	19	1	0	0	21	36
09:00	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	1	5	0	0	0	6	9



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2327
 Site Code :
 Start Date : 03/07/2023
 Page No : 2

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

Groups Printed- Trucks

Start Time	Kiowa St NW Southbound					CSAH 22 (Viking Blvd) Westbound					Bill's Superette Northbound					CSAH 22 (Viking 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	0	0	1	0	1	0	5	0	0	5	0	0	0	0	0	0	3	0	0	3	9
09:30	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	5
09:45	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	2	0	0	2	7
Total	0	0	1	0	1	0	17	0	0	17	0	0	0	0	0	1	11	0	0	12	30
10:00	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	4	0	0	4	9
10:15	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	1	0	0	0	1	3
10:30	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	4	0	0	4	7
10:45	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	4	0	0	4	6
Total	0	0	0	0	0	1	11	0	0	12	0	0	0	0	0	1	12	0	0	13	25
11:00	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	0	6	0	0	6	9
11:15	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	5
11:30	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	4	0	0	4	8
11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	6
Total	0	0	0	0	0	0	8	0	0	8	0	0	1	0	1	0	19	0	0	19	28
12:00	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	7
12:15	0	0	1	0	1	0	5	0	0	5	0	0	0	0	0	0	3	0	0	3	9
12:30	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	5
12:45	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	2	1	0	0	3	7
Total	0	0	1	0	1	0	18	0	0	18	1	0	0	0	1	2	6	0	0	8	28
13:00	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	5	0	0	5	11
13:15	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	0	6	0	0	6	10
13:30	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	6
13:45	0	0	0	0	0	0	4	0	0	4	0	0	1	0	1	0	2	0	0	2	7
Total	0	0	0	0	0	0	19	0	0	19	0	0	2	0	2	0	13	0	0	13	34
14:00	0	0	0	0	0	0	5	0	0	5	1	0	0	0	1	0	4	0	0	4	10
14:15	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	3	0	0	3	8
14:30	0	0	1	0	1	1	7	0	0	8	0	0	0	0	0	0	3	0	1	4	13
14:45	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	4
Total	0	0	1	0	1	1	20	0	0	21	1	0	0	0	1	0	11	0	1	12	35
15:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	5
15:15	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	4	0	0	4	9
15:30	1	0	0	0	1	0	3	0	0	3	0	0	0	0	0	0	5	0	0	5	9
15:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	4
Total	1	0	0	0	1	0	10	0	0	10	0	0	0	0	0	0	16	0	0	16	27
16:00	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	9
16:15	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	6	0	0	6	9
16:30	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
16:45	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	5
Total	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	0	13	0	0	13	25
17:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	5	0	0	5	6
17:15	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	5
17:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	3
17:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	8	0	0	8	15
18:00	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	5
18:15	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
18:30	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
18:45	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	1	0	1	1	6	0	0	7	0	0	0	0	0	0	2	0	0	2	10



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2327
 Site Code :
 Start Date : 03/07/2023
 Page No : 3

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

Groups Printed- Trucks

Start Time	Kiowa St NW Southbound					CSAH 22 (Viking Blvd) Westbound					Bill's Superette Northbound					CSAH 22 (Viking 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	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
19:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	2
19:45	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	2	0	0	2	0	0	0	0	0	0	1	0	0	1	3
20:00	0	0	0	0	0	0	1	0	0	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	0	0	0
20:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
21:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
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	1	0	0	1	1
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	1	0	0	1	1
Grand Total	1	0	4	0	5	3	172	1	0	176	5	0	5	0	10	5	159	1	1	166	357
Apprch %	20	0	80	0		1.7	97.7	0.6	0		50	0	50	0		3	95.8	0.6	0.6		
Total %	0.3	0	1.1	0	1.4	0.8	48.2	0.3	0	49.3	1.4	0	1.4	0	2.8	1.4	44.5	0.3	0.3	46.5	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 03/07/2023

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 22 (Viking Blvd)

Number of Lanes : 1

Total Approach Volume: 2,853

Westbound: CSAH 22 (Viking Blvd)

Number of Lanes : 1

Total Approach Volume: 3,069

Minor Street Approaches

Northbound: Bill's Superette

Number of Lanes : 1

Total Approach Volume: 39

Southbound: Kiowa St NW

Number of Lanes : 1

Total Approach Volume: 170

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 0 hours, 8 are needed

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

Required volumes reached for 0 hours, 8 are needed

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

Required 1A volumes reached for 0 hours, 8 are needed

Required 1B volumes reached for 0 hours, 8 are needed

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

Number of hours (0) volumes exceed minimum < minimum required (4).

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

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

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

Warrant 3B - Peak Hour Volumes.....Not Satisfied

Volumes do not exceed minimums for any one hour period.

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

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

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

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

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

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

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 03/07/2023

Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Summary

Only 0 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 = **350**

Veh/Hr Minor = **105**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	CSAH 22 (Viking Blvd)					Bill's Superette		
16:15 - 17:15	353	+	307	=	660	0	11	No
16:00 - 17:00	343	+	314	=	657	0	11	No
15:45 - 16:45	340	+	301	=	641	1	10	No
16:30 - 17:30	320	+	309	=	629	0	4	No
15:30 - 16:30	332	+	275	=	607	1	13	No
16:45 - 17:45	291	+	287	=	578	2	6	No
15:15 - 16:15	286	+	266	=	552	2	7	No
17:00 - 18:00	262	+	273	=	535	2	6	No
15:00 - 16:00	275	+	243	=	518	2	6	No
17:15 - 18:15	228	+	251	=	479	2	6	No
14:45 - 15:45	247	+	223	=	470	1	8	No
06:45 - 07:45	204	+	250	=	454	0	23	No
07:00 - 08:00	212	+	235	=	447	1	17	No
14:30 - 15:30	221	+	222	=	443	2	9	No
07:15 - 08:15	215	+	220	=	435	2	16	No
07:30 - 08:30	206	+	213	=	419	3	14	No
06:30 - 07:30	191	+	222	=	413	0	22	No
17:30 - 18:30	200	+	208	=	408	2	6	No
06:15 - 07:15	176	+	222	=	398	0	24	No
14:15 - 15:15	199	+	198	=	397	3	9	No
06:00 - 07:00	165	+	214	=	379	0	23	No
07:45 - 08:45	192	+	178	=	370	4	11	No
17:45 - 18:45	186	+	181	=	367	0	5	No
14:00 - 15:00	172	+	179	=	351	6	11	No
13:45 - 14:45	158		184		342	8	9	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 03/07/2023

Warrant 1B - Interruption of Continuous Traffic

Description

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

Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **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	
	CSAH 22 (Viking Blvd)					Bill's Superette		
16:15 - 17:15	353	+	307	=	660	0	11	No
16:00 - 17:00	343	+	314	=	657	0	11	No
15:45 - 16:45	340	+	301	=	641	1	10	No
16:30 - 17:30	320	+	309	=	629	0	4	No
15:30 - 16:30	332	+	275	=	607	1	13	No
16:45 - 17:45	291	+	287	=	578	2	6	No
15:15 - 16:15	286	+	266	=	552	2	7	No
17:00 - 18:00	262	+	273	=	535	2	6	No
15:00 - 16:00	275	+	243	=	518	2	6	No
17:15 - 18:15	228	+	251	=	479	2	6	No
14:45 - 15:45	247	+	223	=	470	1	8	No
06:45 - 07:45	204	+	250	=	454	0	23	No
07:00 - 08:00	212	+	235	=	447	1	17	No
14:30 - 15:30	221	+	222	=	443	2	9	No
07:15 - 08:15	215	+	220	=	435	2	16	No
07:30 - 08:30	206	+	213	=	419	3	14	No
06:30 - 07:30	191	+	222	=	413	0	22	No
17:30 - 18:30	200	+	208	=	408	2	6	No
06:15 - 07:15	176	+	222	=	398	0	24	No
14:15 - 15:15	199	+	198	=	397	3	9	No
06:00 - 07:00	165	+	214	=	379	0	23	No
07:45 - 08:45	192	+	178	=	370	4	11	No
17:45 - 18:45	186	+	181	=	367	0	5	No
14:00 - 15:00	172	+	179	=	351	6	11	No
13:45 - 14:45	158		184		342	8	9	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 03/07/2023

Warrant 1C Combination of Warrants

Description

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

Summary

Only 0 hours meet 1A minimums.
Only 0 hours meet 1B 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
Warrant 1A 1B
Veh/Hr Major = **280 420**

Veh/Hr Minor = **84 42**

Major Road CSAH 22 (Viking Blvd)

Minor Road Bill's Superette

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
16:15 - 17:15	353	+	307	=	660	0	11	No
16:00 - 17:00	343	+	314	=	657	0	11	No
15:45 - 16:45	340	+	301	=	641	1	10	No
16:30 - 17:30	320	+	309	=	629	0	4	No
15:30 - 16:30	332	+	275	=	607	1	13	No
16:45 - 17:45	291	+	287	=	578	2	6	No
15:15 - 16:15	286	+	266	=	552	2	7	No
17:00 - 18:00	262	+	273	=	535	2	6	No
15:00 - 16:00	275	+	243	=	518	2	6	No
17:15 - 18:15	228	+	251	=	479	2	6	No
14:45 - 15:45	247	+	223	=	470	1	8	No
06:45 - 07:45	204		250		454	0	23	No

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:15 - 17:15	353	+	307	=	660	0	11	No
16:00 - 17:00	343	+	314	=	657	0	11	No
15:45 - 16:45	340	+	301	=	641	1	10	No
16:30 - 17:30	320	+	309	=	629	0	4	No
15:30 - 16:30	332	+	275	=	607	1	13	No
16:45 - 17:45	291	+	287	=	578	2	6	No
15:15 - 16:15	286	+	266	=	552	2	7	No
17:00 - 18:00	262	+	273	=	535	2	6	No
15:00 - 16:00	275	+	243	=	518	2	6	No
17:15 - 18:15	228	+	251	=	479	2	6	No
14:45 - 15:45	247	+	223	=	470	1	8	No
06:45 - 07:45	204		250		454	0	23	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 03/07/2023

Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

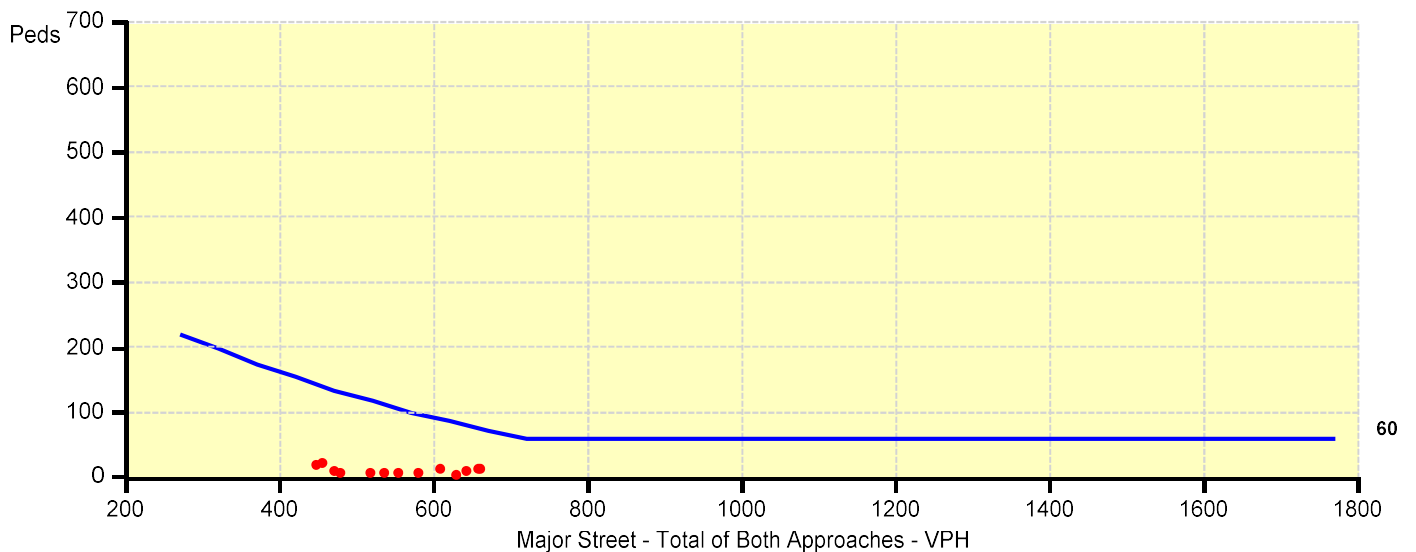
Summary

Only 0 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**

Time	Major Road CSAH 22 (Viking Blvd)				Total	Minor Road Bill's Superette		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:15 - 17:15	353	+	307	=	660	0	11	No
16:00 - 17:00	343	+	314	=	657	0	11	No
15:45 - 16:45	340	+	301	=	641	1	10	No
16:30 - 17:30	320	+	309	=	629	0	4	No
15:30 - 16:30	332	+	275	=	607	1	13	No
16:45 - 17:45	291	+	287	=	578	2	6	No
15:15 - 16:15	286	+	266	=	552	2	7	No
17:00 - 18:00	262	+	273	=	535	2	6	No
15:00 - 16:00	275	+	243	=	518	2	6	No
17:15 - 18:15	228	+	251	=	479	2	6	No
14:45 - 15:45	247	+	223	=	470	1	8	No
06:45 - 07:45	204		250		454	0	23	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 03/07/2023

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

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

Time	Major Road CSAH 22 (Viking Blvd)				Total	Minor Road Bill's Superette		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:15 - 17:15	353	+	307	=	660	0	11	No
16:00 - 17:00	343	+	314	=	657	0	11	No
15:45 - 16:45	340	+	301	=	641	1	10	No
16:30 - 17:30	320	+	309	=	629	0	4	No
15:30 - 16:30	332	+	275	=	607	1	13	No
16:45 - 17:45	291	+	287	=	578	2	6	No
15:15 - 16:15	286	+	266	=	552	2	7	No
17:00 - 18:00	262	+	273	=	535	2	6	No
15:00 - 16:00	275	+	243	=	518	2	6	No
17:15 - 18:15	228	+	251	=	479	2	6	No
14:45 - 15:45	247	+	223	=	470	1	8	No
06:45 - 07:45	204		250		454	0	23	No

