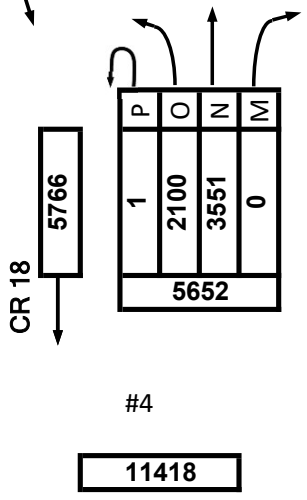
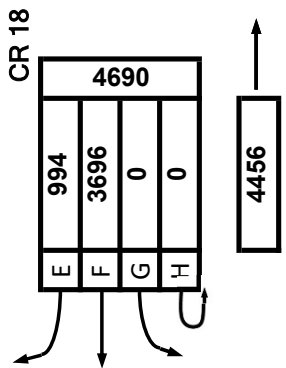
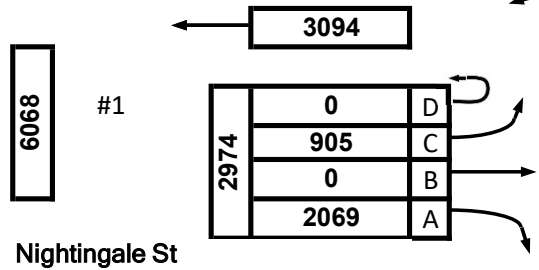
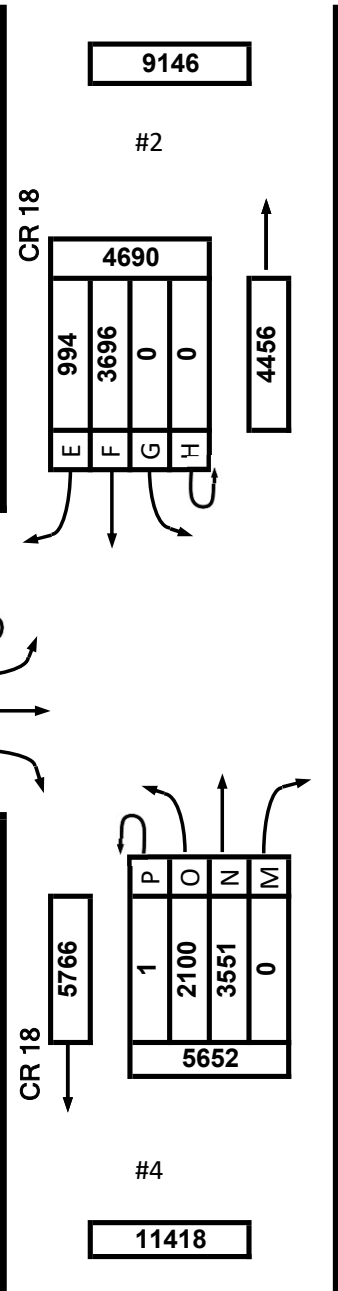
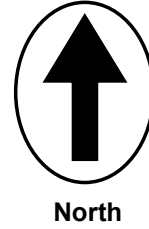


Date : 05/31/23

Count Number : TMC 2364

Location : CR 18
@ Nightingale St

Collection Period : 24 HR



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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

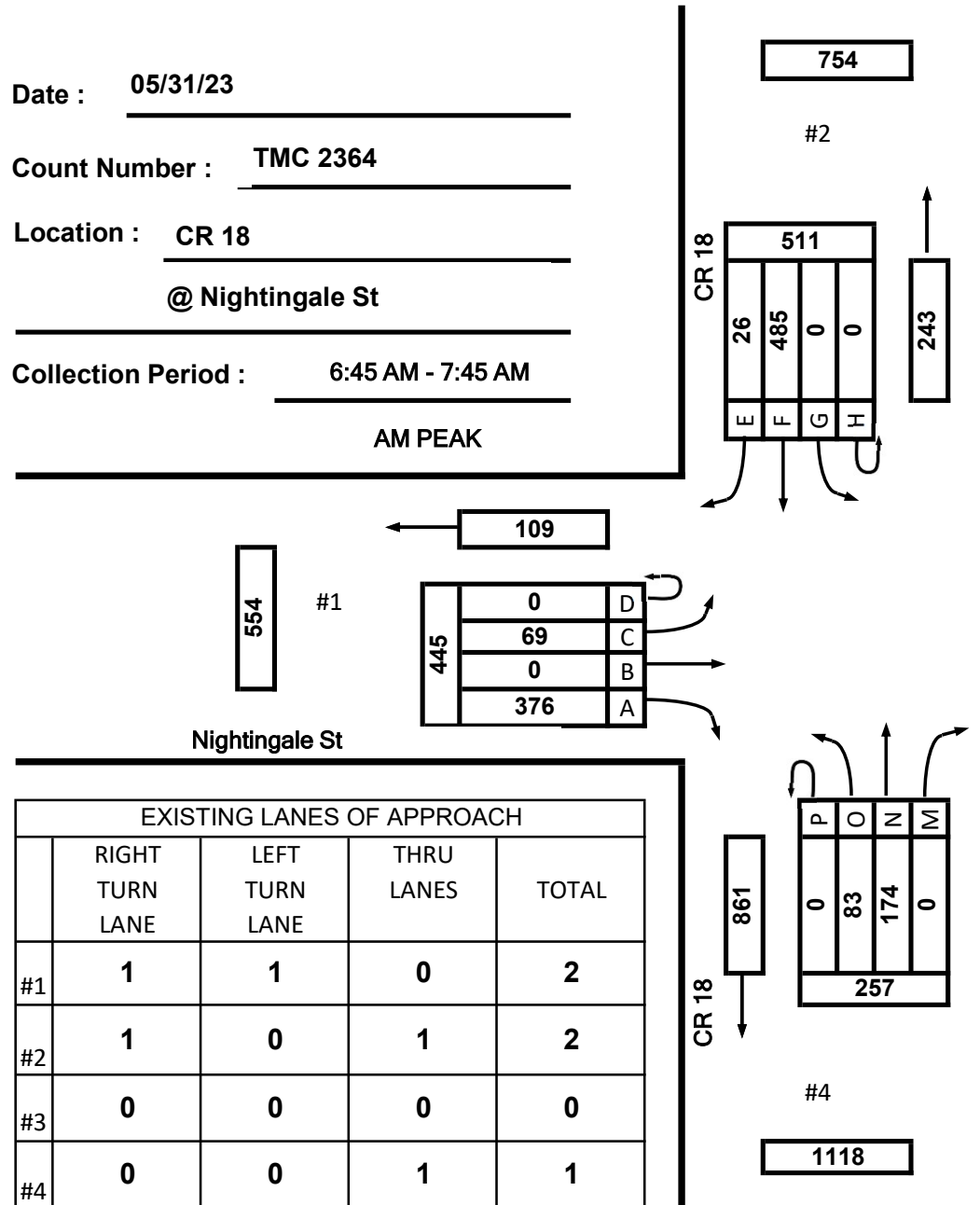
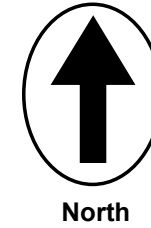
Date : 05/31/23

Count Number : TMC 2364

Location : CR 18
@ Nightingale St

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

AM PEAK



Anoka County Highway Department

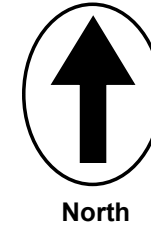
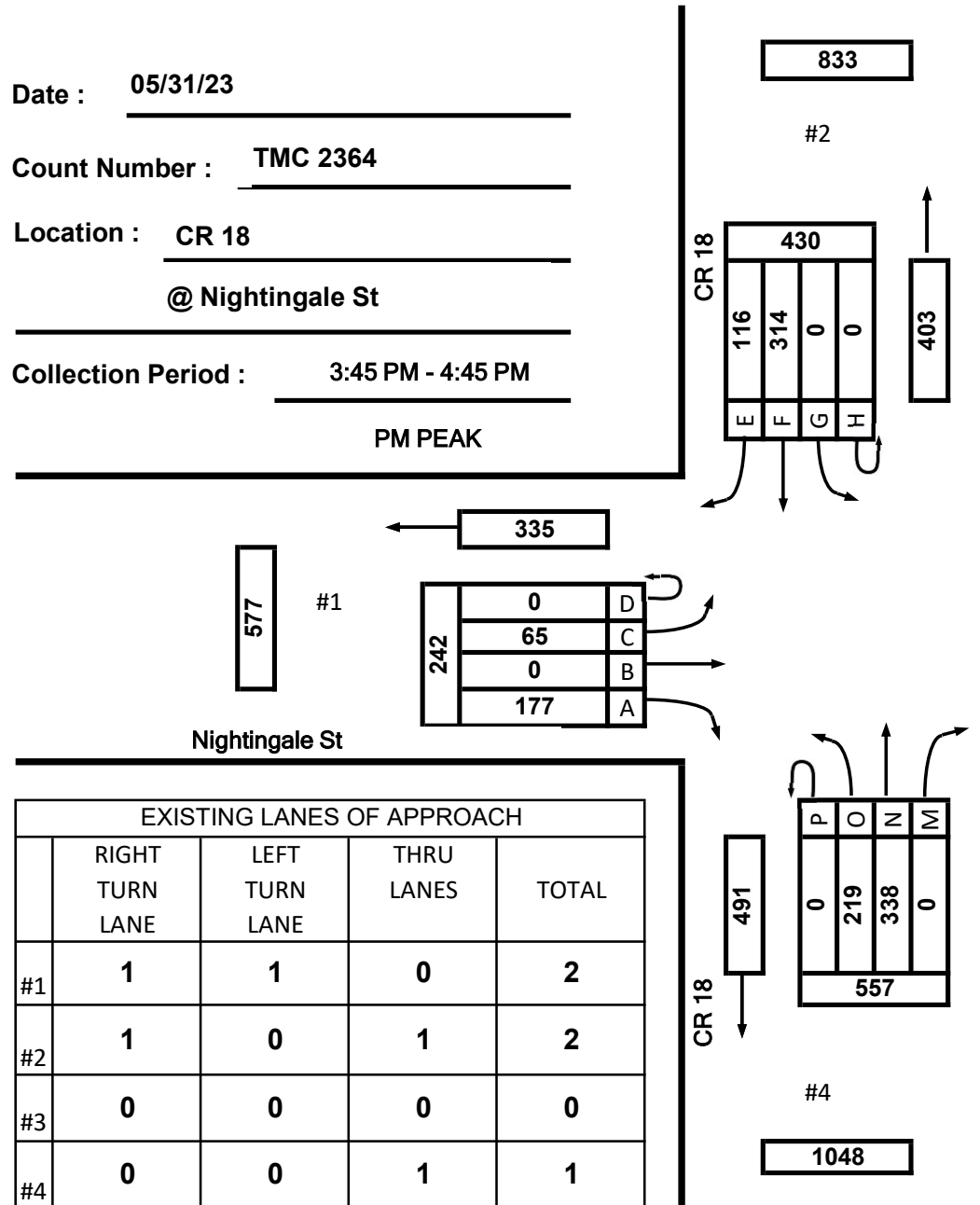
Traffic Volume and Turning Movement Study

Date : 05/31/23

Count Number : TMC 2364

Location : CR 18
@ Nightingale St

Collection Period : 3:45 PM - 4:45 PM
PM PEAK



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

Anoka County Highway Department
Traffic Volume and Turning Movement Study

TMC 2364 - CR 18 @ Nightingale St

0 0

Wednesday, May 31, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						VEHICLE TOTAL						
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total							
12:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	3	0	3	0	0	0	0	0	0	7
12:15 AM	0	0	1	4	0	5	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	7
12:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4
12:45 AM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	0	0	1	0	0	0	0	0	1	5
Hourly Total	0	0	6	5	0	11	0	0	0	0	0	0	0	3	5	0	0	8	0	1	0	3	0	4	0	0	0	0	0	23	
1:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	3	2	0	0	5	0	1	0	0	0	1	0	0	0	0	0	7	
1:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4	
1:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	2	
Hourly Total	0	0	4	0	0	4	0	0	0	0	0	0	0	5	4	0	0	9	0	1	0	1	0	2	0	0	0	0	0	15	
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	
2:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	
2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	1	0	1	0	2	0	0	0	0	0	5	
Hourly Total	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	2	0	2	0	4	0	0	0	0	0	7	
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	
3:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	
3:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	3	
3:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	1	0	1	0	2	0	0	0	0	0	5	
Hourly Total	0	0	4	0	0	4	0	0	0	0	0	0	0	2	2	0	0	4	0	2	0	2	0	4	0	0	0	0	0	12	
4:00 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	3	
4:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	3	0	4	0	7	0	0	0	0	0	9	
4:30 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	5	0	0	5	0	4	0	10	0	14	0	0	0	0	0	26	
4:45 AM	0	0	13	1	0	14	0	0	0	0	0	0	0	0	3	0	0	3	0	3	0	4	0	7	0	0	0	0	0	24	
Hourly Total	0	0	21	2	0	23	0	0	0	0	0	0	0	0	9	0	0	9	0	12	0	18	0	30	0	0	0	0	0	62	
5:00 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	5	0	0	5	0	7	0	9	0	16	0	0	0	0	0	25	
5:15 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	1	4	0	0	5	0	10	0	12	0	22	0	0	0	0	0	39	
5:30 AM	0	0	16	0	0	16	0	0	0	0	0	0	0	3	12	0	0	15	0	7	0	16	0	23	0	0	0	0	0	54	
5:45 AM	0	0	17	1	0	18	0	0	0	0	0	0	0	3	16	0	0	19	0	7	0	9	2	16	0	0	0	0	0	53	
Hourly Total	0	0	49	1	0	50	0	0	0	0	0	0	0	7	37	0	0	44	0	31	0	46	2	77	0	0	0	0	0	171	
6:00 AM	0	0	20	1	0	21	0	0	0	0	0	0	0	3	10	0	0	13	0	12	0	23	1	35	0	0	0	0	0	69	
6:15 AM	0	0	24	1	0	25	0	0	0	0	0	0	0	5	13	0	0	18	0	16	0	22	0	38	0	0	0	0	0	81	
6:30 AM	0	0	57	0	0	57	0	0	0	0	0	0	0	6	18	0	0	24	0	20	0	45	0	65	0	0	0	0	0	146	
6:45 AM	0	0	71	5	0	76	0	0	0	0	0	0	0	17	26	0	0	43	0	24	0	58	1	82	0	0	0	0	0	201	
Hourly Total	0	0	172	7	0	179	0	0	0	0	0	0	0	31	67	0	0	98	0	72	0	148	2	220	0	0	0	0	0	497	
7:00 AM	0	0	113	8	0	121	0	0	0	0	0	0	0	15	25	0	0	40	0	15	0	104	3	119	0	0	0	0	0	280	
7:15 AM	0	0	170	6	0	176	0	0	0	0	0	0	0	30	55	0	0	85	0	12	0	113	10	125	0	0	0	0	0	386	
7:30 AM	0	0	131	7	0	138	0	0	0	0	0	0	0	21	68	0	0	89	0	18	0	101	5	119	0	0	0	0	0	346	
7:45 AM	0	0	57	10	0	67	0	0	0	0	0	0	0	18	53	0	0	71	0	23	0	29	3	52	0	0	0	0	0	190	
Hourly Total	0	0	471	31	0	502	0	0	0	0	0	0	0	84	201	0	0	285	0	68	0	347	21	415	0	0	0	0	0	1202	

TMC 2364 - CR 18 @ Nightingale St

0 0

Wednesday, May 31, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	0	60	19	0	79	0	0	0	0	0	0	0	19	42	0	0	61	0	28	0	29	3	57	197
8:15 AM	0	0	44	13	0	57	0	0	0	0	0	0	0	14	42	0	0	56	0	17	0	36	0	53	166
8:30 AM	0	0	42	9	0	51	0	0	0	0	0	0	0	13	32	0	0	45	0	11	0	28	1	39	135
8:45 AM	0	0	44	9	0	53	0	0	0	0	0	0	0	14	51	0	0	65	0	13	0	28	2	41	159
Hourly Total	0	0	190	50	0	240	0	0	0	0	0	0	0	60	167	0	0	227	0	69	0	121	6	190	657
9:00 AM	0	0	46	15	0	61	0	0	0	0	0	0	0	16	65	0	0	81	0	27	0	30	3	57	199
9:15 AM	0	0	50	17	0	67	0	0	0	0	0	0	0	12	50	0	0	62	0	20	0	25	4	45	174
9:30 AM	0	0	36	9	0	45	0	0	0	0	0	0	0	11	37	0	0	48	0	15	0	23	2	38	131
9:45 AM	0	0	44	4	0	48	0	0	0	0	0	0	0	12	23	0	0	35	0	10	0	37	7	47	130
Hourly Total	0	0	176	45	0	221	0	0	0	0	0	0	0	51	175	0	0	226	0	72	0	115	16	187	634
10:00 AM	0	0	47	9	0	56	0	0	0	0	0	0	0	19	38	0	0	57	0	13	0	24	1	37	150
10:15 AM	0	0	56	4	0	60	0	0	0	0	0	0	0	15	36	0	0	51	0	13	0	27	2	40	151
10:30 AM	0	0	59	7	0	66	0	0	0	0	0	0	0	12	45	0	0	57	0	9	0	18	0	27	150
10:45 AM	0	0	64	14	0	78	0	0	0	0	0	0	0	13	29	0	0	42	0	9	0	20	0	29	149
Hourly Total	0	0	226	34	0	260	0	0	0	0	0	0	0	59	148	0	0	207	0	44	0	89	3	133	600
11:00 AM	0	0	52	12	0	64	0	0	0	0	0	0	0	31	38	0	0	69	0	4	0	22	0	26	159
11:15 AM	0	0	38	11	0	49	0	0	0	0	0	0	0	21	41	0	0	62	0	11	0	26	0	37	148
11:30 AM	0	0	64	7	0	71	0	0	0	0	0	0	0	24	44	0	0	68	0	6	0	17	0	23	162
11:45 AM	0	0	46	9	0	55	0	0	0	0	0	0	0	27	42	0	0	69	0	13	0	24	0	37	161
Hourly Total	0	0	200	39	0	239	0	0	0	0	0	0	0	103	165	0	0	268	0	34	0	89	0	123	630
12:00 PM	0	0	66	19	0	85	0	0	0	0	0	0	0	29	48	0	0	77	0	9	0	17	0	26	188
12:15 PM	0	0	45	10	0	55	0	0	0	0	0	0	0	25	48	0	0	73	0	7	0	13	0	20	148
12:30 PM	0	0	31	11	0	42	0	0	0	0	0	0	0	31	46	0	0	77	0	17	0	21	0	38	157
12:45 PM	0	0	43	10	0	53	0	0	0	0	0	0	0	21	38	0	0	59	0	13	0	19	0	32	144
Hourly Total	0	0	185	50	0	235	0	0	0	0	0	0	0	106	180	0	0	286	0	46	0	70	0	116	637
1:00 PM	0	0	47	16	0	63	0	0	0	0	0	0	0	26	53	0	0	79	0	4	0	21	0	25	167
1:15 PM	0	0	31	7	0	38	0	0	0	0	0	0	0	38	51	0	0	89	0	8	0	15	1	23	150
1:30 PM	0	0	37	5	0	42	0	0	0	0	0	0	0	13	37	0	0	50	0	9	0	21	0	30	122
1:45 PM	0	0	46	15	0	61	0	0	0	0	0	0	0	24	42	0	0	66	0	10	0	30	0	40	167
Hourly Total	0	0	161	43	0	204	0	0	0	0	0	0	0	101	183	0	0	284	0	31	0	87	1	118	606
2:00 PM	0	0	54	14	0	68	0	0	0	0	0	0	0	38	47	0	0	85	0	14	0	42	0	56	209
2:15 PM	0	0	37	15	0	52	0	0	0	0	0	0	0	80	106	0	0	186	0	6	0	23	22	29	267
2:30 PM	0	0	50	14	0	64	0	0	0	0	0	0	0	89	103	0	0	192	0	11	0	30	14	41	297
2:45 PM	0	0	52	21	0	73	0	0	0	0	0	0	0	53	80	0	0	133	0	12	0	21	0	33	239
Hourly Total	0	0	193	64	0	257	0	0	0	0	0	0	0	260	336	0	0	596	0	43	0	116	36	159	1012
3:00 PM	0	0	61	14	0	75	0	0	0	0	0	0	0	42	62	0	0	104	0	11	0	33	4	44	223
3:15 PM	0	0	68	22	0	90	0	0	0	0	0	0	0	37	54	0	0	91	0	11	0	35	4	46	227
3:30 PM	0	0	55	16	0	71	0	0	0	0	0	0	0	51	80	0	0	131	0	16	0	30	3	46	248
3:45 PM	0	0	64	16	0	80	0	0	0	0	0	0	0	45	99	0	0	144	0	25	0	39	3	64	288
Hourly Total	0	0	248	68	0	316	0	0	0	0	0	0	0	175	295	0	0	470	0	63	0	137	14	200	986

TMC 2364 - CR 18 @ Nightingale St
0 0
Wednesday, May 31, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	0	99	42	0	141	0	0	0	0	0	0	0	58	62	0	0	120	0	9	0	43	1	52	313
4:15 PM	0	0	88	28	0	116	0	0	0	0	0	0	0	59	79	0	0	138	0	13	0	55	6	68	322
4:30 PM	0	0	63	30	0	93	0	0	0	0	0	0	0	57	98	0	0	155	0	18	0	40	0	58	306
4:45 PM	0	0	60	18	0	78	0	0	0	0	0	0	0	46	77	0	0	123	0	22	0	29	0	51	252
Hourly Total	0	0	310	118	0	428	0	0	0	0	0	0	0	220	316	0	0	536	0	62	0	167	7	229	1193
5:00 PM	0	0	71	31	0	102	0	0	0	0	0	0	0	43	74	0	0	117	0	10	0	38	1	48	267
5:15 PM	0	0	82	30	0	112	0	0	0	0	0	0	0	52	70	0	0	122	0	17	0	42	2	59	293
5:30 PM	0	0	74	37	0	111	0	0	0	0	0	0	0	55	103	0	0	158	0	18	0	54	2	72	341
5:45 PM	0	0	85	23	0	108	0	0	0	0	0	0	0	51	72	0	0	123	0	19	0	48	0	67	298
Hourly Total	0	0	312	121	0	433	0	0	0	0	0	0	0	201	319	0	0	520	0	64	0	182	5	246	1199
6:00 PM	0	0	70	23	0	93	0	0	0	0	0	0	0	54	75	0	0	129	0	11	0	33	4	44	266
6:15 PM	0	0	64	17	0	81	0	0	0	0	0	0	0	46	68	0	0	114	0	18	0	33	0	51	246
6:30 PM	0	0	73	15	0	88	0	0	0	0	0	0	0	39	89	0	0	128	0	13	0	37	5	50	266
6:45 PM	0	0	60	21	0	81	0	0	0	0	0	0	0	43	89	0	0	132	0	15	0	31	6	46	259
Hourly Total	0	0	267	76	0	343	0	0	0	0	0	0	0	182	321	0	0	503	0	57	0	134	15	191	1037
7:00 PM	0	0	51	17	0	68	0	0	0	0	0	0	0	56	70	0	0	126	0	13	0	30	1	43	237
7:15 PM	0	0	56	21	0	77	0	0	0	0	0	0	0	33	91	0	0	124	0	18	0	31	4	49	250
7:30 PM	0	0	54	20	0	74	0	0	0	0	0	0	0	35	71	0	0	106	0	13	0	16	1	29	209
7:45 PM	0	0	33	14	0	47	0	0	0	0	0	0	0	31	46	0	0	77	0	12	0	13	0	25	149
Hourly Total	0	0	194	72	0	266	0	0	0	0	0	0	0	155	278	0	0	433	0	56	0	90	6	146	845
8:00 PM	0	0	37	19	0	56	0	0	0	0	0	0	1	35	48	0	0	84	0	6	0	16	3	22	162
8:15 PM	0	0	41	18	0	59	0	0	0	0	0	0	0	33	52	0	0	85	0	17	0	8	0	25	169
8:30 PM	0	0	28	22	0	50	0	0	0	0	0	0	0	34	37	0	0	71	0	10	0	18	0	28	149
8:45 PM	0	0	41	14	0	55	0	0	0	0	0	0	0	41	33	0	0	74	0	13	0	8	4	21	150
Hourly Total	0	0	147	73	0	220	0	0	0	0	0	0	1	143	170	0	0	314	0	46	0	50	7	96	630
9:00 PM	0	0	27	17	0	44	0	0	0	0	0	0	0	16	35	0	0	51	0	6	0	7	0	13	108
9:15 PM	0	0	27	10	0	37	0	0	0	0	0	0	0	41	44	0	0	85	0	3	0	10	0	13	135
9:30 PM	0	0	48	18	0	66	0	0	0	0	0	0	0	29	20	0	0	49	0	3	0	2	1	5	120
9:45 PM	0	0	16	8	0	24	0	0	0	0	0	0	0	13	15	0	0	28	0	6	0	11	0	17	69
Hourly Total	0	0	118	53	0	171	0	0	0	0	0	0	0	99	114	0	0	213	0	18	0	30	1	48	432
10:00 PM	0	0	13	15	0	28	0	0	0	0	0	0	0	11	15	0	0	26	0	4	0	4	0	8	62
10:15 PM	0	0	4	11	0	15	0	0	0	0	0	0	0	13	11	0	0	24	0	1	0	7	0	8	47
10:30 PM	0	0	6	5	0	11	0	0	0	0	0	0	0	8	12	0	0	20	0	3	0	5	0	8	39
10:45 PM	0	0	4	5	0	9	0	0	0	0	0	0	0	5	3	0	0	8	0	3	0	1	0	4	21
Hourly Total	0	0	27	36	0	63	0	0	0	0	0	0	0	37	41	0	0	78	0	11	0	17	0	28	169
11:00 PM	0	0	4	2	0	6	0	0	0	0	0	0	0	7	5	0	0	12	0	0	0	1	0	1	19
11:15 PM	0	0	1	3	0	4	0	0	0	0	0	0	0	3	6	0	0	9	0	0	0	0	0	0	13
11:30 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	4	1	0	0	5	0	0	0	4	0	4	16
11:45 PM	0	0	2	1	0	3	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	3	0	3	12
Hourly Total	0	0	14	6	0	20	0	0	0	0	0	0	0	15	17	0	0	32	0	0	0	8	0	8	60
DAILY TOTAL	0	0	3696	994	0	4690	0	0	0	0	0	0	1	2100	3551	0	0	5652	0	905	0	2069	142	2974	13316
Cars	0	0	3608	970	0	4578	0	0	0	0	0	0	1	2068	3492	0	0	5561	0	895	0	2038	74	2933	13072
Heavy Vehicles	0	0	88	24	0	112	0	0	0	0	0	0	0	32	59	0	0	91	0	10	0	31	68	41	244
Heavy Vehicle %	0.00%	0.00%	2.38%	2.41%	0.00%	2.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.52%	1.66%	0.00%	0.00%	1.61%	0.00%	1.10%	0.00%	1.50%	47.89%	1.38%	1.83%

TMC 2364 - CR 18 @ Nightingale St
0 0

Wednesday, May 31, 2023

AM Peak Hour

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
6:45 AM	0	0	71	5	0	76	0	0	0	0	0	0	0	17	26	0	0	43	0	24	0	58	1	82	201
7:00 AM	0	0	113	8	0	121	0	0	0	0	0	0	0	15	25	0	0	40	0	15	0	104	3	119	280
7:15 AM	0	0	170	6	0	176	0	0	0	0	0	0	0	30	55	0	0	85	0	12	0	113	10	125	386
7:30 AM	0	0	131	7	0	138	0	0	0	0	0	0	0	21	68	0	0	89	0	18	0	101	5	119	346
Peak Hour Total PHF	0	0	485	26	0	511	0	0	0	0	0	0	0	83	174	0	0	257	0	69	0	376	19	445	1213
	0.000	0.000	0.713	0.813	0.000	0.726	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.692	0.640	0.000	0.000	0.722	0.000	0.719	0.000	0.832	0.475	0.890	0.786

PM Peak Hour

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
3:45 PM	0	0	64	16	0	80	0	0	0	0	0	0	0	45	99	0	0	144	0	25	0	39	3	64	288
4:00 PM	0	0	99	42	0	141	0	0	0	0	0	0	0	58	62	0	0	120	0	9	0	43	1	52	313
4:15 PM	0	0	88	28	0	116	0	0	0	0	0	0	0	59	79	0	0	138	0	13	0	55	6	68	322
4:30 PM	0	0	63	30	0	93	0	0	0	0	0	0	0	57	98	0	0	155	0	18	0	40	0	58	306
Peak Hour Total PHF	0	0	314	116	0	430	0	0	0	0	0	0	0	219	338	0	0	557	0	65	0	177	10	242	1229
	0.000	0.000	0.793	0.690	0.000	0.762	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.928	0.854	0.000	0.000	0.898	0.000	0.650	0.000	0.805	0.417	0.890	0.954

Total Vehicles On Leg		9146			
Vehicles Entering Intersection		4690	Vehicles Exiting Intersection		4456
Southbound					
Cars	970	3608	0	0	0
Heavy	24	88	0	0	0
Total	994	3696	0	0	0



Total Vehicles on Leg 6068	Vehicles Entering Intersection 2974	Eastbound	Cars	Heavy	Total	
			74	68	142	
			0	0	0	
	895		10	905		
	0		0	0		
Vehicles Exiting Intersection 3094	2038	31	2069			

Daily Volumes

Total Vehicles on Leg 0	Westbound	Cars	Heavy	Total	
		0	0	0	
		0	0	0	
		0	0	0	
		0	0	0	
		0	0	0	
Vehicles Entering Intersection 0	Vehicles Exiting Intersection 0	0	0	0	



Cars	0	1	2068	3492	0
Heavy	0	0	32	59	0
Total	0	1	2100	3551	0
Northbound					
Vehicles Entering Intersection			Vehicles Exiting Intersection		
5652			5766		
Total Vehicles On Leg			11418		

Heavy Vehicles

Date	Time	Southbound						Westbound						Northbound						Eastbound					
		U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk
05/31/2023	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	5:45	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	6:15	0	0	1	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0
	6:30	0	0	4	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
	6:45	0	0	4	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0	0	0
	7:00	0	0	6	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	4	2	1	1
	7:15	0	0	7	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	0	0	1	8	2
	7:30	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	4	0
	7:45	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	1
	8:00	0	0	3	4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	2
	8:15	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	8:30	0	0	3	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0
	8:45	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	2
	9:00	0	0	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	1
	9:15	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	1	1
	9:30	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	9:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	10:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	10:15	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1
	10:30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	10:45	0	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
	11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	11:15	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	11:45	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2364

Study Date : 06/26/2023

Signal Warrants - Summary

Major Street Approaches

Northbound: CR 18 (Crosstown Blvd NW)

Number of Lanes : 1

Total Approach Volume: 5,652

Southbound: CR 18 (Crosstown Blvd NW)

Number of Lanes : 1

Total Approach Volume: 4,690

Minor Street Approaches

Eastbound: Nightingale St

Number of Lanes : 1

Total Approach Volume: 2,974

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 14 hours, 8 are needed

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

Required volumes reached for 10 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 15 hours, 8 are needed

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

Number of hours (13) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (39) 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 2364

Study Date : 06/26/2023

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

14 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					Minor Road		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
	CR 18 (Crosstown Blvd NW)					Nightingale St		
17:15 - 18:15	532	+	424	=	956	242	0	Yes
16:15 - 17:15	533	+	389	=	922	225	0	Yes
14:15 - 15:15	615	+	264	=	879	147	0	Yes
15:15 - 16:15	486	+	382	=	868	208	0	Yes
18:15 - 19:15	500	+	318	=	818	190	0	Yes
07:15 - 08:15	306	+	460	=	766	353	0	Yes
19:15 - 20:15	391	+	254	=	645	125	0	Yes
11:15 - 12:15	276	+	260	=	536	123	0	Yes
12:15 - 13:15	288	+	213	=	501	115	0	Yes
13:15 - 14:15	290	+	209	=	499	149	0	Yes
10:15 - 11:15	219	+	268	=	487	122	0	Yes
08:15 - 09:15	247	+	222	=	469	190	0	Yes
09:15 - 10:15	202	+	216	=	418	167	0	Yes
06:15 - 07:15	125	+	279	=	404	304	0	Yes
20:15 - 21:15	281	+	208	=	489	87	0	No
20:30 - 21:30	281	+	186	=	467	75	0	No
20:45 - 21:45	259	+	202	=	461	52	0	No
21:00 - 22:00	213	+	171	=	384	48	0	No
21:15 - 22:15	188	+	155	=	343	43	0	No
06:00 - 07:00	98	+	179	=	277	220	0	No
21:30 - 22:30	127	+	133	=	260	38	0	No
05:45 - 06:45	74	+	121	=	195	154	0	No
21:45 - 22:45	98	+	78	=	176	41	0	No
05:30 - 06:30	65	+	80	=	145	112	0	No
22:00 - 23:00	78		63		141	28	0	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2364

Study Date : 06/26/2023

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

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 = **525**

Veh/Hr Minor = **52**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CR 18 (Crosstown Blvd NW)					Nightingale St		
15:30 - 16:30	533	+	408	=	941	230	0	Yes
17:30 - 18:30	524	+	393	=	917	234	0	Yes
16:30 - 17:30	517	+	385	=	902	216	0	Yes
18:30 - 19:30	510	+	314	=	824	188	0	Yes
14:30 - 15:30	520	+	302	=	822	164	0	Yes
06:30 - 07:30	192	+	430	=	622	391	0	Yes
07:30 - 08:30	277	+	341	=	618	281	0	Yes
13:30 - 14:30	387	+	223	=	610	155	0	Yes
19:30 - 20:30	352	+	236	=	588	101	0	Yes
11:15 - 12:15	276	+	260	=	536	123	0	Yes
11:00 - 12:00	268	+	239	=	507	123	0	No
10:45 - 11:45	241	+	262	=	503	115	0	No
12:15 - 13:15	288	+	213	=	501	115	0	No
12:30 - 13:30	304	+	196	=	500	118	0	No
13:15 - 14:15	290	+	209	=	499	149	0	No
13:00 - 14:00	284	+	204	=	488	118	0	No
10:30 - 11:30	230	+	257	=	487	119	0	No
10:15 - 11:15	219	+	268	=	487	122	0	No
08:30 - 09:30	253	+	232	=	485	182	0	No
08:45 - 09:45	256	+	226	=	482	181	0	No
12:45 - 13:45	277	+	196	=	473	110	0	No
20:30 - 21:30	281	+	186	=	467	75	0	No
10:00 - 11:00	207	+	260	=	467	133	0	No
20:45 - 21:45	259	+	202	=	461	52	0	No
09:00 - 10:00	226		221		447	187	0	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2364

Study Date : 06/26/2023

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

15 hours meet 1A minimums.
15 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 CR 18 (Crosstown Blvd NW)

Minor Road Nightingale St

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
17:15 - 18:15	532	+	424	=	956	242	0	Yes
16:15 - 17:15	533	+	389	=	922	225	0	Yes
14:15 - 15:15	615	+	264	=	879	147	0	Yes
15:15 - 16:15	486	+	382	=	868	208	0	Yes
18:15 - 19:15	500	+	318	=	818	190	0	Yes
07:15 - 08:15	306	+	460	=	766	353	0	Yes
19:15 - 20:15	391	+	254	=	645	125	0	Yes
11:15 - 12:15	276	+	260	=	536	123	0	Yes
12:15 - 13:15	288	+	213	=	501	115	0	Yes
13:15 - 14:15	290	+	209	=	499	149	0	Yes
20:15 - 21:15	281	+	208	=	489	87	0	Yes
10:15 - 11:15	219	+	268	=	487	122	0	Yes

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:45 - 16:45	557	+	430	=	987	242	0	Yes
16:45 - 17:45	520	+	403	=	923	230	0	Yes
17:45 - 18:45	494	+	370	=	864	212	0	Yes
18:45 - 19:45	488	+	300	=	788	167	0	Yes
13:45 - 14:45	529	+	245	=	774	166	0	Yes
14:45 - 15:45	459	+	309	=	768	169	0	Yes
06:30 - 07:30	192	+	430	=	622	391	0	Yes
07:30 - 08:30	277	+	341	=	618	281	0	Yes
11:45 - 12:45	296	+	237	=	533	121	0	Yes
19:45 - 20:45	317	+	212	=	529	100	0	Yes
10:45 - 11:45	241	+	262	=	503	115	0	Yes
08:30 - 09:30	253	+	232	=	485	182	0	Yes

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2364

Study Date : 06/26/2023

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.

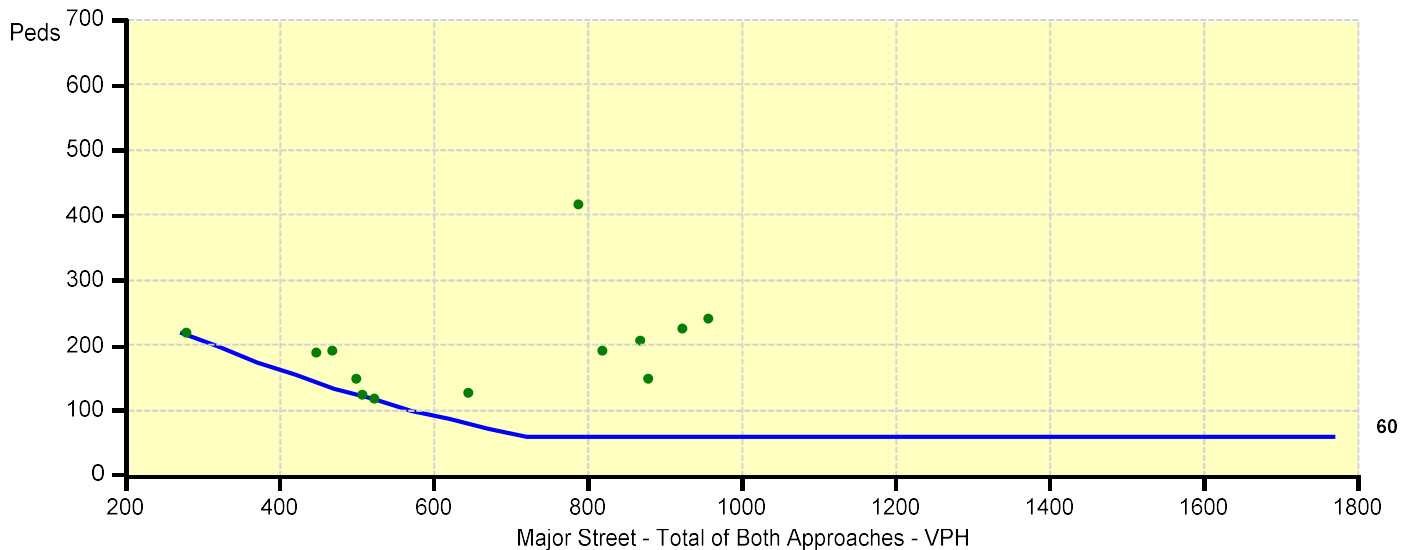
Summary

13 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 CR 18 (Crosstown Blvd NW)					Minor Road Nightingale St		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
17:15 - 18:15	532	+	424	=	956	242	0	Yes
16:15 - 17:15	533	+	389	=	922	225	0	Yes
14:15 - 15:15	615	+	264	=	879	147	0	Yes
15:15 - 16:15	486	+	382	=	868	208	0	Yes
18:15 - 19:15	500	+	318	=	818	190	0	Yes
07:00 - 08:00	285	+	502	=	787	415	0	Yes
19:15 - 20:15	391	+	254	=	645	125	0	Yes
12:00 - 13:00	286	+	235	=	521	116	0	Yes
11:00 - 12:00	268	+	239	=	507	123	0	Yes
13:15 - 14:15	290	+	209	=	499	149	0	Yes
08:00 - 09:00	227	+	240	=	467	190	0	Yes
09:00 - 10:00	226	+	221	=	447	187	0	Yes



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2364

Study Date : 06/26/2023

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

28 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 CR 18 (Crosstown Blvd NW)					Minor Road Nightingale St		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
15:45 - 16:45	557	+	430	=	987	242	0	Yes
16:00 - 17:00	536	+	428	=	964	229	0	Yes
17:15 - 18:15	532	+	424	=	956	242	0	Yes
17:00 - 18:00	520	+	433	=	953	246	0	Yes
15:30 - 16:30	533	+	408	=	941	230	0	Yes
16:45 - 17:45	520	+	403	=	923	230	0	Yes
16:15 - 17:15	533	+	389	=	922	225	0	Yes
17:30 - 18:30	524	+	393	=	917	234	0	Yes
16:30 - 17:30	517	+	385	=	902	216	0	Yes
14:15 - 15:15	615	+	264	=	879	147	0	Yes
15:15 - 16:15	486	+	382	=	868	208	0	Yes
17:45 - 18:45	494		370		864	212	0	Yes

