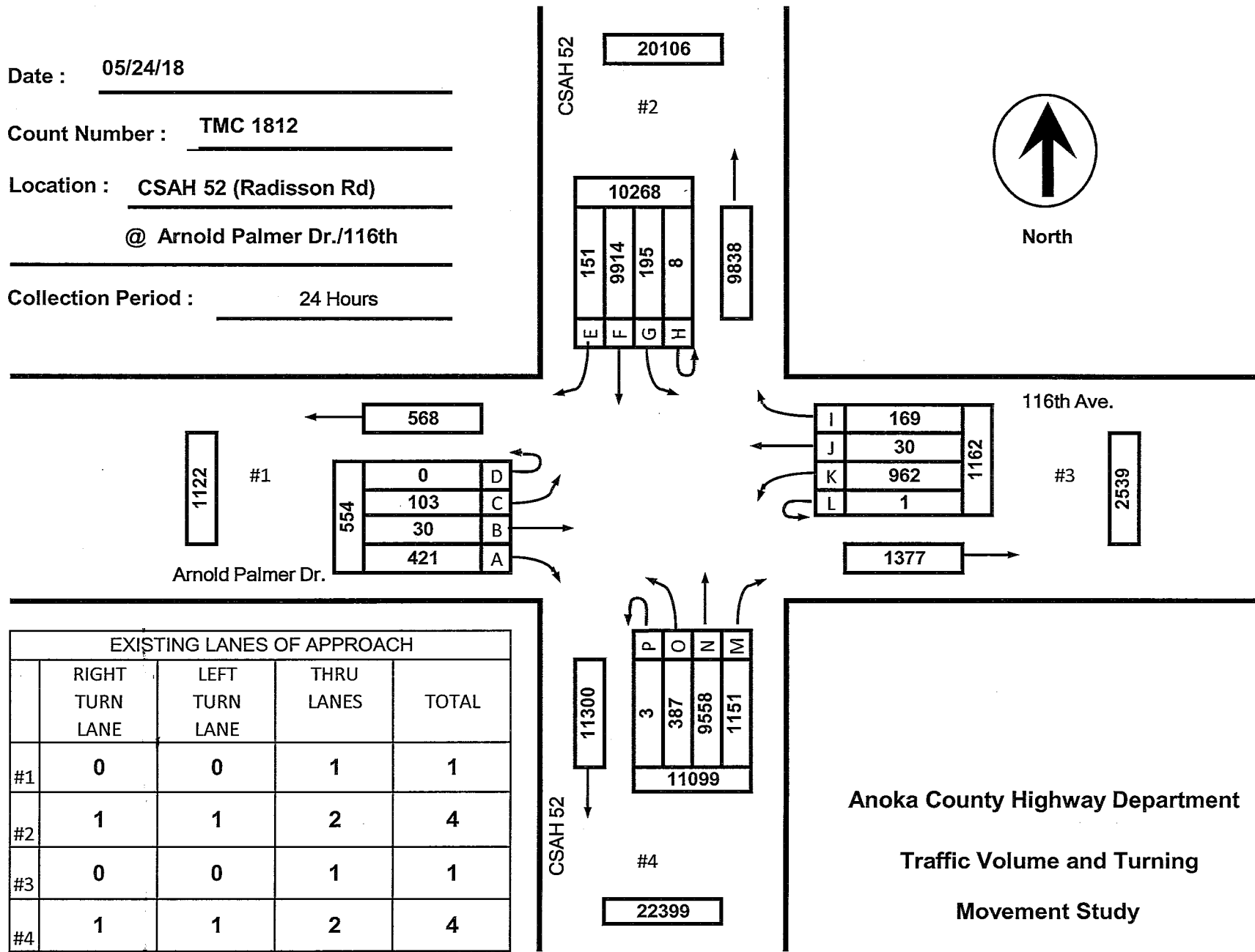


Date : 05/24/18

Count Number : TMC 1812

Location : CSAH 52 (Radisson Rd)
@ Arnold Palmer Dr./116th

Collection Period : 24 Hours



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

Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Date : 05/24/18

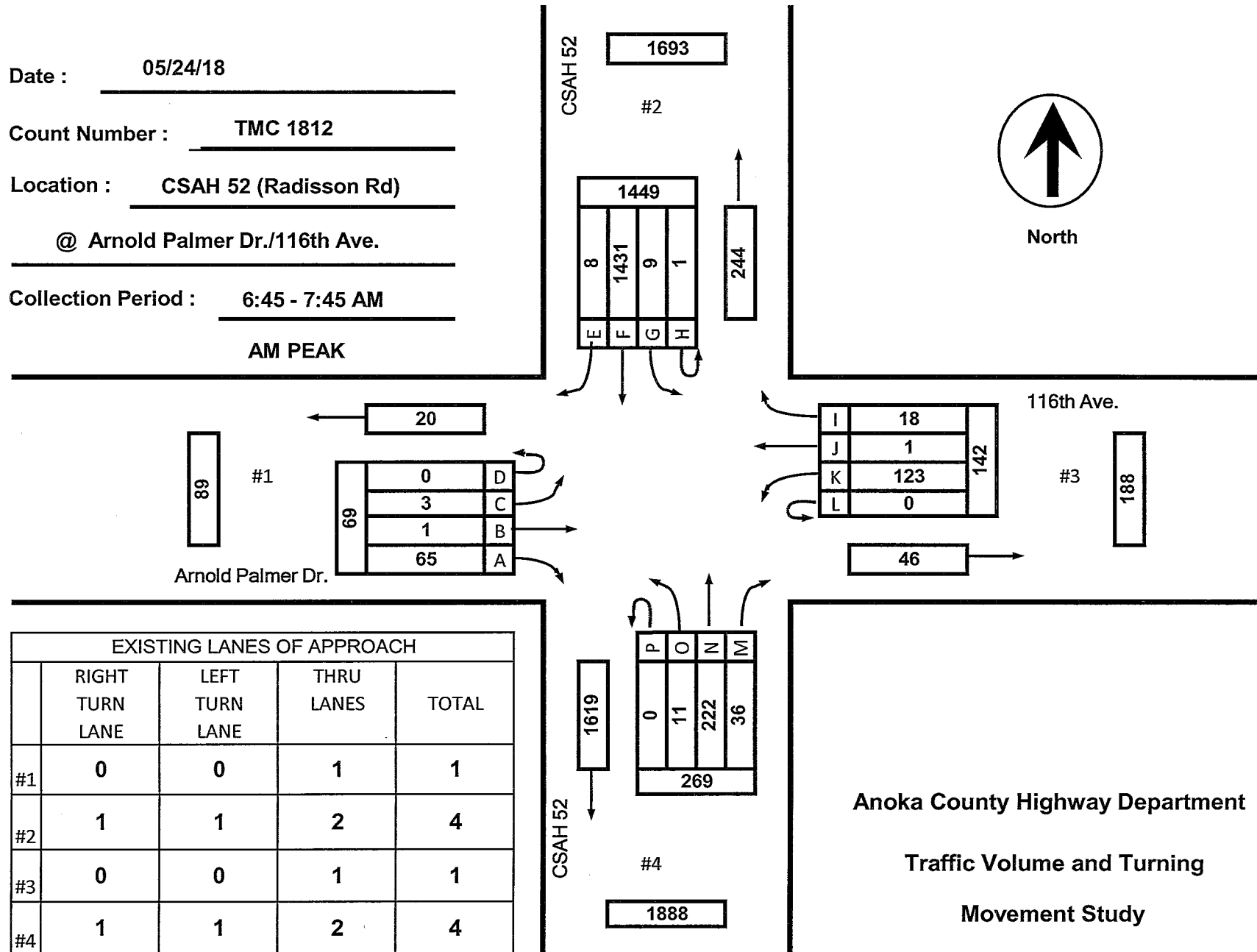
Count Number : TMC 1812

Location : CSAH 52 (Radisson Rd)

@ Arnold Palmer Dr./116th Ave.

Collection Period : 6:45 - 7:45 AM

AM PEAK



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

Anoka County Highway Department
Traffic Volume and Turning
Movement Study

Date : 05/24/18

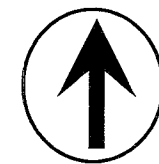
Count Number : TMC 1812

Location : CSAH 52 (Radisson Rd)

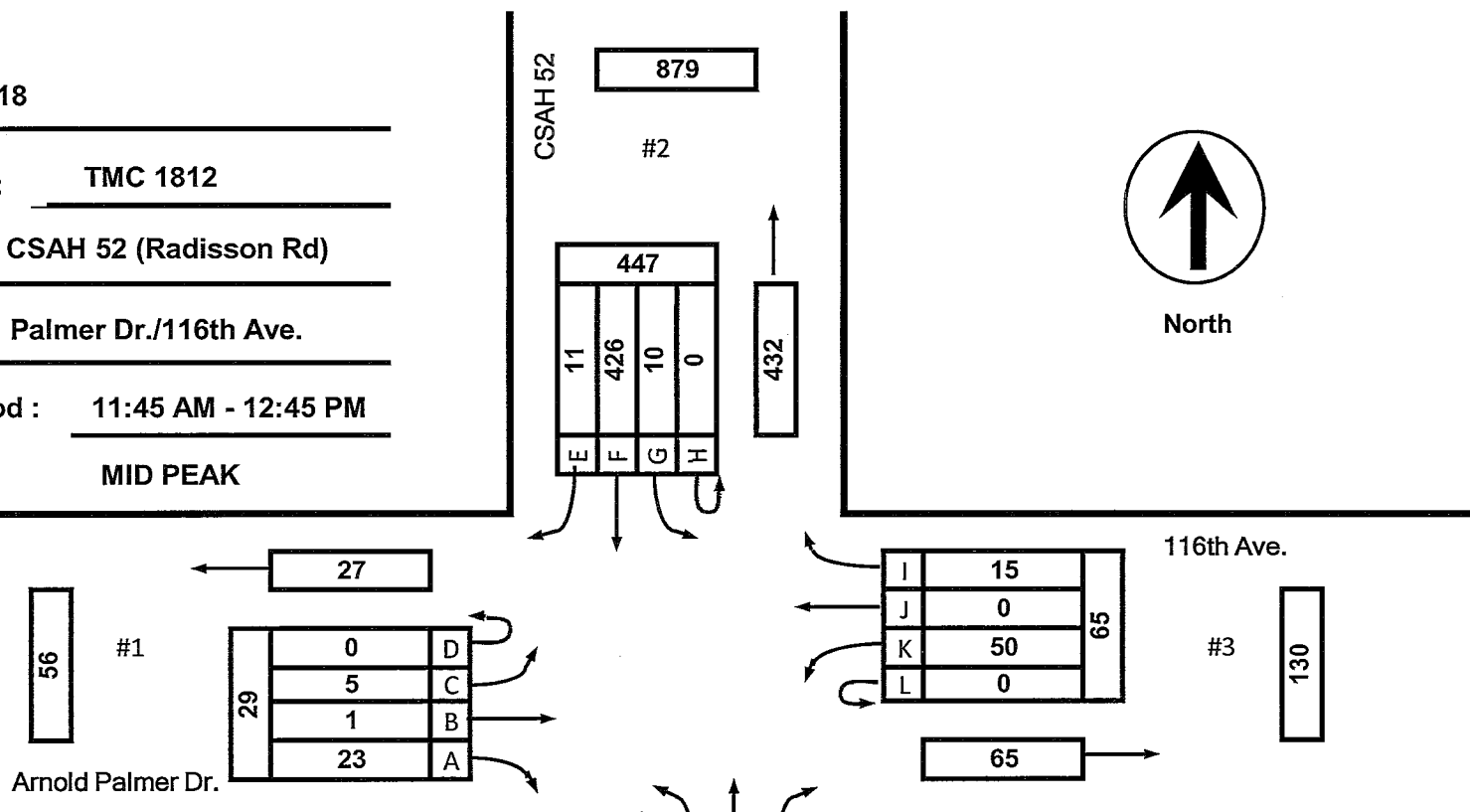
@ Arnold Palmer Dr./116th Ave.

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

MID PEAK



North



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

Anoka County Highway Department

Traffic Volume and Turning

Movement Study

Date : 05/24/18

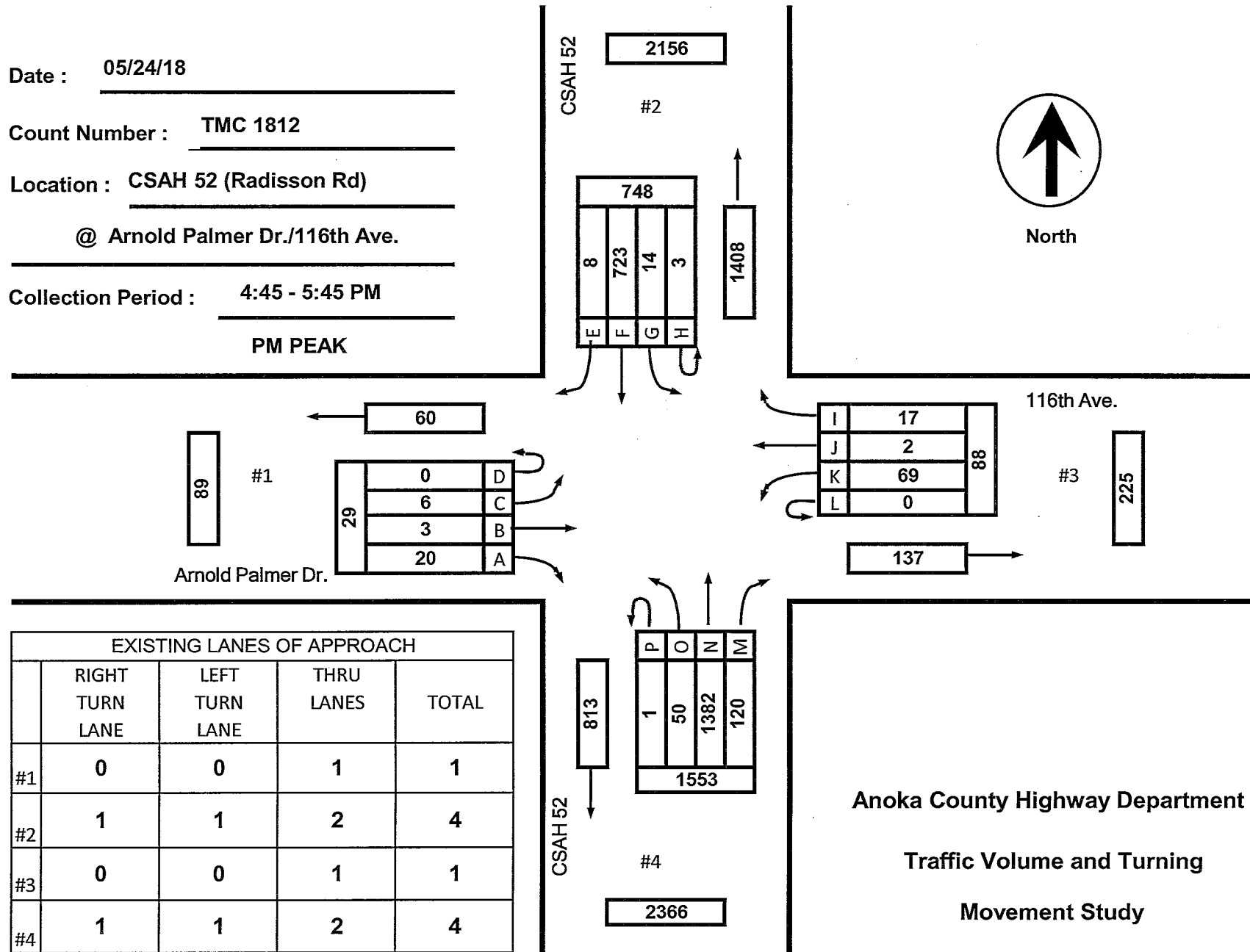
Count Number : TMC 1812

Location : CSAH 52 (Radisson Rd)

@ Arnold Palmer Dr./116th Ave.

Collection Period : 4:45 - 5:45 PM

PM PEAK



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 : TMC1812
 Site Code :
 Start Date : 05/24/2018
 Page No : 1

Weather: Hot and Stormy
 CountCam 200
 Study Conducted By: Andrea

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 Southbound						116th Ave. Westbound						CSAH 52 Northbound						Arnold Palmer Dr. 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	8	0	0	8	0	0	0	0	0	0	0	1	15	1	0	17	0	1	0	0	0	1	0	0	26	26
00:15	0	0	4	0	0	4	0	0	0	0	0	0	0	0	9	2	0	11	0	0	0	0	0	0	0	0	15	15
00:30	0	0	5	0	0	5	0	0	0	0	0	0	0	0	10	1	0	11	0	0	0	1	1	1	1	1	17	18
00:45	0	0	5	0	0	5	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	0	0	16	16
Total	0	0	22	0	0	22	0	0	0	0	0	0	0	1	45	4	0	50	0	1	0	1	1	2	1	1	74	75
01:00	0	0	4	0	0	4	0	0	0	0	0	0	0	0	8	1	0	9	0	0	0	0	0	0	0	0	13	13
01:15	0	0	3	0	0	3	0	1	1	0	0	2	0	0	10	1	0	11	0	0	0	0	0	0	0	0	16	16
01:30	0	0	5	0	0	5	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	13	13
01:45	0	0	3	0	0	3	0	0	0	0	0	0	0	1	6	0	0	7	0	0	0	0	0	0	0	0	10	10
Total	0	0	15	0	0	15	0	1	1	0	0	2	0	1	32	2	0	35	0	0	0	0	0	0	0	0	52	52
02:00	0	0	2	0	0	2	0	0	0	0	0	0	0	1	5	1	0	7	0	0	0	0	0	0	0	0	9	9
02:15	0	0	3	0	0	3	0	0	0	0	0	0	0	0	5	1	0	6	0	0	0	0	0	0	0	0	9	9
02:30	0	1	0	0	0	1	0	0	0	0	0	0	0	1	6	1	0	8	0	0	0	0	0	0	0	0	9	9
02:45	0	0	4	0	0	4	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	6	6
Total	0	1	9	0	0	10	0	1	0	0	0	1	0	2	17	3	0	22	0	0	0	0	0	0	0	0	33	33
03:00	0	0	4	0	0	4	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	7	7
03:15	0	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
03:30	0	0	6	0	0	6	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	10	10
03:45	0	0	6	0	0	6	0	0	0	1	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	0	9	9
Total	0	0	24	0	0	24	0	1	0	1	0	2	0	0	7	1	0	8	0	0	0	0	0	0	0	0	34	34
04:00	0	1	20	0	0	21	0	1	0	0	0	1	0	0	3	1	0	4	0	0	0	0	0	0	0	0	26	26
04:15	0	0	30	0	0	30	0	2	0	0	0	2	0	0	2	0	0	2	0	1	0	1	0	2	0	0	36	36
04:30	0	0	43	1	0	44	0	7	0	0	0	7	0	0	5	0	0	5	0	0	0	2	0	2	0	0	58	58
04:45	0	0	55	0	0	55	0	5	0	1	1	6	0	0	8	0	0	8	0	0	0	3	1	3	2	2	72	74
Total	0	1	148	1	0	150	0	15	0	1	1	16	0	0	18	1	0	19	0	1	0	6	1	7	2	2	192	194
05:00	0	0	79	0	0	79	0	4	0	0	0	4	0	0	13	1	0	14	0	0	0	0	0	0	0	0	97	97
05:15	0	0	124	0	0	124	0	6	0	3	0	9	0	0	7	1	0	8	0	0	0	4	1	4	1	1	145	146
05:30	0	0	162	0	0	162	0	12	0	2	1	14	0	0	15	0	0	15	0	0	0	4	1	4	2	2	195	197
05:45	0	2	161	1	0	164	0	15	0	0	0	15	0	2	20	1	0	23	0	0	0	6	0	6	0	0	208	208
Total	0	2	526	1	0	529	0	37	0	5	1	42	0	2	55	3	0	60	0	0	0	14	2	14	3	3	645	648



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC1812
 Site Code :
 Start Date : 05/24/2018
 Page No : 2

Weather: Hot and Stormy
 CountCam 200
 Study Conducted By: Andrea

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 Southbound						116th Ave. Westbound						CSAH 52 Northbound						Arnold Palmer Dr. 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	1	1	209	0	0	211	0	19	0	0	0	19	0	0	22	1	0	23	0	0	0	10	0	10	0	263	263
06:15	0	1	274	0	0	275	0	12	0	0	0	12	0	4	22	3	0	29	0	1	0	13	1	14	1	330	331
06:30	0	1	344	3	1	348	0	21	0	0	0	21	0	3	32	4	0	39	0	2	0	6	0	8	1	416	417
06:45	0	3	345	1	0	349	0	22	1	4	0	27	0	1	41	12	0	54	0	0	0	19	3	19	3	449	452
Total	1	6	1172	4	1	1183	0	74	1	4	0	79	0	8	117	20	0	145	0	3	0	48	4	51	5	1458	1463
07:00	0	3	384	4	0	391	0	40	0	7	0	47	0	1	57	7	0	65	0	0	1	16	0	17	0	520	520
07:15	1	1	367	3	0	372	0	27	0	1	0	28	0	5	64	7	0	76	0	1	0	9	1	10	1	486	487
07:30	0	2	335	0	1	337	0	34	0	6	0	40	0	4	60	10	0	74	0	2	0	21	0	23	1	474	475
07:45	1	4	298	2	2	305	0	19	1	1	1	21	0	4	57	15	1	76	0	1	1	11	1	13	5	415	420
Total	2	10	1384	9	3	1405	0	120	1	15	1	136	0	14	238	39	1	291	0	4	2	57	2	63	7	1895	1902
08:00	0	2	255	2	0	259	1	25	2	4	0	32	0	2	57	11	0	70	0	2	0	9	2	11	2	372	374
08:15	0	1	201	1	0	203	0	27	1	0	0	28	0	6	60	14	1	80	0	4	2	9	0	15	1	326	327
08:30	0	7	183	5	0	195	0	24	0	2	0	26	0	3	69	6	0	78	0	2	0	16	0	18	0	317	317
08:45	0	1	135	0	0	136	0	26	0	3	1	29	0	3	77	10	0	90	0	0	0	8	0	8	1	263	264
Total	0	11	774	8	0	793	1	102	3	9	1	115	0	14	263	41	1	318	0	8	2	42	2	52	4	1278	1282
09:00	0	2	182	2	0	186	0	14	0	1	0	15	1	5	72	10	0	88	0	5	0	3	0	8	0	297	297
09:15	0	4	153	3	0	160	0	17	0	1	0	18	0	4	67	11	0	82	0	3	2	6	0	11	0	271	271
09:30	0	2	123	1	0	126	0	13	1	4	0	18	0	3	73	12	0	88	0	3	1	3	1	7	1	239	240
09:45	0	0	126	1	0	127	0	12	1	5	0	18	0	2	60	17	0	79	0	1	0	2	0	3	0	227	227
Total	0	8	584	7	0	599	0	56	2	11	0	69	1	14	272	50	0	337	0	12	3	14	1	29	1	1034	1035
10:00	1	2	106	3	0	112	0	6	0	2	0	8	0	1	58	6	0	65	0	1	0	4	2	5	2	190	192
10:15	0	3	113	3	0	119	0	17	0	0	0	17	0	3	67	14	0	84	0	1	0	5	0	6	0	226	226
10:30	0	3	98	0	0	101	0	16	1	5	0	22	0	3	72	7	0	82	0	1	0	9	1	10	1	215	216
10:45	0	1	108	1	0	110	0	13	1	1	0	15	0	5	90	7	2	102	0	0	1	2	0	3	2	230	232
Total	1	9	425	7	0	442	0	52	2	8	0	62	0	12	287	34	2	333	0	3	1	20	3	24	5	861	866
11:00	0	3	94	2	0	99	0	20	0	2	0	22	1	2	90	7	0	100	0	4	0	8	0	12	0	233	233
11:15	0	2	105	0	1	107	0	9	0	4	0	13	0	4	83	11	0	98	0	1	2	5	0	8	1	226	227
11:30	0	3	106	1	0	110	0	16	2	5	0	23	0	4	98	17	1	119	0	0	0	3	0	3	1	255	256
11:45	0	2	119	1	0	122	0	14	0	2	0	16	0	3	90	12	0	105	0	1	1	6	1	8	1	251	252
Total	0	10	424	4	1	438	0	59	2	13	0	74	1	13	361	47	1	422	0	6	3	22	1	31	3	965	968
12:00	0	3	105	1	0	109	0	11	0	5	0	16	0	4	112	10	0	126	0	2	0	5	0	7	0	258	258
12:15	0	3	96	5	0	104	0	10	0	5	0	15	0	1	103	15	0	119	0	0	0	5	1	5	1	243	244
12:30	0	2	106	4	1	112	0	15	0	3	0	18	0	8	107	17	1	132	0	2	0	7	2	9	4	271	275



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC1812
 Site Code :
 Start Date : 05/24/2018
 Page No : 3

Weather: Hot and Stormy
 CountCam 200
 Study Conducted By: Andrea

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 Southbound						116th Ave. Westbound						CSAH 52 Northbound						Arnold Palmer Dr. Eastbound						Exclu. Total	Inclu. Total	Int. Total	
	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total				
12:45	0	6	105	1	0	112	0	9	2	1	0	12	0	4	95	16	0	115	0	5	1	6	0	12	0	0	251	251
Total	0	14	412	11	1	437	0	45	2	14	0	61	0	17	417	58	1	492	0	9	1	23	3	33	5	1023	1028	
13:00	0	3	101	0	0	104	0	10	0	0	0	10	0	3	100	11	0	114	0	1	0	4	0	5	0	233	233	
13:15	0	3	87	2	0	92	0	11	1	4	0	16	0	3	104	15	0	122	0	0	0	7	0	7	0	237	237	
13:30	0	3	95	2	0	100	0	7	0	0	0	7	0	4	143	18	0	165	0	1	1	3	0	5	0	277	277	
13:45	0	5	95	1	0	101	0	7	0	3	0	10	0	4	106	15	0	125	0	1	1	3	1	5	1	241	242	
Total	0	14	378	5	0	397	0	35	1	7	0	43	0	14	453	59	0	526	0	3	2	17	1	22	1	988	989	
14:00	0	1	92	1	0	94	0	7	0	2	0	9	0	6	149	13	0	168	0	2	0	5	0	7	0	278	278	
14:15	0	2	119	3	0	124	0	6	0	1	0	7	0	4	128	16	0	148	0	1	1	1	0	3	0	282	282	
14:30	0	5	109	2	1	116	0	8	0	3	0	11	0	4	178	28	0	210	0	1	1	3	1	5	2	342	344	
14:45	0	0	116	1	2	117	0	18	0	4	0	22	0	7	187	16	0	210	0	0	1	5	0	6	2	355	357	
Total	0	8	436	7	3	451	0	39	0	10	0	49	0	21	642	73	0	736	0	4	3	14	1	21	4	1257	1261	
15:00	0	5	111	6	0	122	0	12	0	0	1	12	0	11	252	26	0	289	0	1	0	5	0	6	1	429	430	
15:15	0	4	99	7	0	110	0	15	0	2	0	17	0	9	186	26	0	221	0	5	0	1	2	6	2	354	356	
15:30	0	2	123	3	0	128	0	10	0	1	0	11	0	2	145	20	0	167	0	6	0	6	1	12	1	318	319	
15:45	0	5	115	5	0	125	0	14	0	3	1	17	0	9	137	21	0	167	0	3	1	4	1	8	2	317	319	
Total	0	16	448	21	0	485	0	51	0	6	2	57	0	31	720	93	0	844	0	15	1	16	4	32	6	1418	1424	
16:00	0	3	134	3	0	140	0	9	0	6	0	15	0	11	386	46	0	443	0	2	0	6	0	8	0	606	606	
16:15	0	5	135	2	0	142	0	12	0	2	0	14	0	18	366	25	0	409	0	1	1	8	1	10	1	575	576	
16:30	0	4	139	5	0	148	0	12	0	3	1	15	0	13	380	25	0	418	0	0	1	7	0	8	1	589	590	
16:45	1	6	156	2	0	165	0	17	0	1	0	18	0	16	344	21	0	381	0	2	1	7	0	10	0	574	574	
Total	1	18	564	12	0	595	0	50	0	12	1	62	0	58	1476	117	0	1651	0	5	3	28	1	36	2	2344	2346	
17:00	2	1	207	2	0	212	0	13	1	6	0	20	1	13	357	28	0	399	0	2	0	3	0	5	0	636	636	
17:15	0	3	178	2	0	183	0	19	1	5	0	25	0	11	345	39	0	395	0	1	1	6	1	8	1	611	612	
17:30	0	4	182	2	0	188	0	20	0	5	0	25	0	10	336	32	0	378	0	1	1	4	0	6	0	597	597	
17:45	0	1	151	4	0	156	0	13	0	2	0	15	0	10	323	29	0	362	0	2	0	9	1	11	1	544	545	
Total	2	9	718	10	0	739	0	65	2	18	0	85	1	44	1361	128	0	1534	0	6	2	22	2	30	2	2388	2390	
18:00	0	5	177	3	0	185	0	20	1	2	0	23	0	16	246	26	0	288	0	1	1	12	0	14	0	510	510	
18:15	0	4	137	4	0	145	0	19	0	3	0	22	0	5	236	29	1	270	0	0	0	7	1	7	2	444	446	
18:30	0	6	147	1	0	154	0	10	1	2	1	13	0	7	228	19	0	254	0	2	0	6	0	8	1	429	430	
18:45	1	1	79	3	0	84	0	17	0	4	0	21	0	9	187	13	0	209	0	3	2	6	2	11	2	325	327	
Total	1	16	540	11	0	568	0	66	2	11	1	79	0	37	897	87	1	1021	0	6	3	31	3	40	5	1708	1713	



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC1812
 Site Code :
 Start Date : 05/24/2018
 Page No : 4

Weather: Hot and Stormy
 CountCam 200
 Study Conducted By: Andrea

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 Southbound						116th Ave. Westbound						CSAH 52 Northbound						Arnold Palmer Dr. 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	3	113	1	0	117	0	10	1	3	0	14	0	7	182	25	0	214	0	1	0	4	2	5	2	350	352
19:15	0	2	93	2	0	97	0	15	3	3	0	21	0	6	175	23	0	204	0	2	0	6	1	8	1	330	331
19:30	0	1	100	6	0	107	0	9	1	3	0	13	0	11	245	33	0	289	0	2	2	6	1	10	1	419	420
19:45	0	7	111	5	0	123	0	6	0	0	0	6	0	8	246	32	0	286	0	1	0	6	1	7	1	422	423
Total	0	13	417	14	0	444	0	40	5	9	0	54	0	32	848	113	0	993	0	6	2	22	5	30	5	1521	1526
20:00	0	10	88	0	0	98	0	5	0	4	0	9	0	12	196	28	0	236	0	1	1	4	0	6	0	349	349
20:15	0	4	62	2	0	68	0	9	2	1	0	12	0	3	142	24	0	169	0	2	0	0	0	2	0	251	251
20:30	0	5	62	1	0	68	0	4	1	0	0	5	0	5	125	24	0	154	0	1	0	1	0	2	0	229	229
20:45	0	3	57	5	0	65	0	2	1	1	0	4	0	5	83	24	0	112	0	0	0	5	0	5	0	186	186
Total	0	22	269	8	0	299	0	20	4	6	0	30	0	25	546	100	0	671	0	4	1	10	0	15	0	1015	1015
21:00	0	0	40	0	0	40	0	5	1	1	0	7	0	4	61	13	0	78	0	1	0	0	0	1	0	126	126
21:15	0	0	31	1	0	32	0	2	0	1	0	3	0	6	82	16	0	104	0	0	0	2	0	2	0	141	141
21:30	0	1	24	0	0	25	0	2	0	0	0	2	0	2	80	8	0	90	0	1	0	4	0	5	0	122	122
21:45	0	4	20	5	0	29	0	4	0	1	0	5	0	8	52	14	0	74	0	1	0	3	0	4	0	112	112
Total	0	5	115	6	0	126	0	13	1	3	0	17	0	20	275	51	0	346	0	3	0	9	0	12	0	501	501
22:00	0	0	21	0	0	21	0	5	1	2	0	8	0	3	47	7	0	57	0	3	0	2	0	5	0	91	91
22:15	0	0	23	3	0	26	0	3	0	1	0	4	0	0	42	3	0	45	0	0	0	1	0	1	0	76	76
22:30	0	1	21	1	0	23	0	5	0	1	0	6	0	1	39	4	0	44	0	0	0	0	0	0	0	73	73
22:45	0	1	12	0	0	13	0	3	0	0	0	3	0	2	21	2	0	25	0	1	0	1	0	2	0	43	43
Total	0	2	77	4	0	83	0	16	1	4	0	21	0	6	149	16	0	171	0	4	0	4	0	8	0	283	283
23:00	0	0	12	0	0	12	0	0	0	1	0	1	0	0	16	5	0	21	0	0	1	1	0	2	0	36	36
23:15	0	0	9	1	0	10	0	4	0	1	0	5	0	0	15	3	0	18	0	0	0	0	0	0	0	33	33
23:30	0	0	10	0	0	10	0	0	0	0	0	0	0	1	15	1	0	17	0	0	0	0	0	0	0	27	27
23:45	0	0	2	0	0	2	0	0	0	0	0	0	0	0	16	2	0	18	0	0	0	0	0	0	0	20	20
Total	0	0	33	1	0	34	0	4	0	2	0	6	0	1	62	11	0	74	0	0	1	1	0	2	0	116	116
Grand Total	8	195	9914	151	9	10268	1	962	30	169	8	1162	3	387	9558	1151	7	11099	0	103	30	421	37	554	61	23083	23144
Apprch %	0.1	1.9	96.6	1.5			0.1	82.8	2.6	14.5			0	3.5	86.1	10.4			0	18.6	5.4	76					
Total %	0	0.8	42.9	0.7		44.5	0	4.2	0.1	0.7		5	0	1.7	41.4	5		48.1	0	0.4	0.1	1.8		2.4	0.3	99.7	
Cars +	8	183	9665	135		10000	0	940	28	158		1134	3	376	9333	1106		10825	0	98	26	408		569	0	0	22528
% Cars +	100	93.8	97.5	89.4	100	97.3	0	97.7	93.3	93.5	100	96.9	100	97.2	97.6	96.1	100	97.5	0	95.1	86.7	96.9	100	96.3	0	0	97.3
Trucks	0	12	249	16		277	1	22	2	11		36	0	11	225	45		281	0	5	4	13		22	0	0	616
% Trucks	0	6.2	2.5	10.6	0	2.7	100	2.3	6.7	6.5	0	3.1	0	2.8	2.4	3.9	0	2.5	0	4.9	13.3	3.1	0	3.7	0	0	2.7



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC1812
 Site Code :
 Start Date : 05/24/2018
 Page No : 5

Weather: Hot and Stormy
 CountCam 200
 Study Conducted By: Andrea

Start Time	CSAH 52 Southbound					116th Ave. Westbound				CSAH 52 Northbound					Arnold Palmer Dr. 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 06:45																					
06:45	0	3	345	1	349	0	22	1	4	27	0	1	41	12	54	0	0	0	19	19	449
07:00	0	3	384	4	391	0	40	0	7	47	0	1	57	7	65	0	0	1	16	17	520
07:15	1	1	367	3	372	0	27	0	1	28	0	5	64	7	76	0	1	0	9	10	486
07:30	0	2	335	0	337	0	34	0	6	40	0	4	60	10	74	0	2	0	21	23	474
Total Volume	1	9	1431	8	1449	0	123	1	18	142	0	11	222	36	269	0	3	1	65	69	1929
% App. Total	0.1	0.6	98.8	0.6		0	86.6	0.7	12.7		0	4.1	82.5	13.4		0	4.3	1.4	94.2		
PHF	.250	.750	.932	.500	.926	.000	.769	.250	.643	.755	.000	.550	.867	.750	.885	.000	.375	.250	.774	.750	.927
Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:45																					
11:45	0	2	119	1	122	0	14	0	2	16	0	3	90	12	105	0	1	1	6	8	251
12:00	0	3	105	1	109	0	11	0	5	16	0	4	112	10	126	0	2	0	5	7	258
12:15	0	3	96	5	104	0	10	0	5	15	0	1	103	15	119	0	0	0	5	5	243
12:30	0	2	106	4	112	0	15	0	3	18	0	8	107	17	132	0	2	0	7	9	271
Total Volume	0	10	426	11	447	0	50	0	15	65	0	16	412	54	482	0	5	1	23	29	1023
% App. Total	0	2.2	95.3	2.5		0	76.9	0	23.1		0	3.3	85.5	11.2		0	17.2	3.4	79.3		
PHF	.000	.833	.895	.550	.916	.000	.833	.000	.750	.903	.000	.500	.920	.794	.913	.000	.625	.250	.821	.806	.944
Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:45																					
16:45	1	6	156	2	165	0	17	0	1	18	0	16	344	21	381	0	2	1	7	10	574
17:00	2	1	207	2	212	0	13	1	6	20	1	13	357	28	399	0	2	0	3	5	636
17:15	0	3	178	2	183	0	19	1	5	25	0	11	345	39	395	0	1	1	6	8	611
17:30	0	4	182	2	188	0	20	0	5	25	0	10	336	32	378	0	1	1	4	6	597
Total Volume	3	14	723	8	748	0	69	2	17	88	1	50	1382	120	1553	0	6	3	20	29	2418
% App. Total	0.4	1.9	96.7	1.1		0	78.4	2.3	19.3		0.1	3.2	89	7.7		0	20.7	10.3	69		
PHF	.375	.583	.873	1.00	.882	.000	.863	.500	.708	.880	.250	.781	.968	.769	.973	.000	.750	.750	.714	.725	.950



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC1812
 Site Code :
 Start Date : 05/24/2018
 Page No : 1

Weather: Hot and Stormy
 CountCam 200
 Study Conducted By: Andrea

Groups Printed- Trucks

Start Time	CSAH 52 Southbound					116th Ave. Westbound					CSAH 52 Northbound					Arnold Palmer Dr. 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	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	0	0	0	0	0	0
04:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
04:45	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
05:45	0	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	1	6	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
06:00	0	0	5	0	5	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	7
06:15	0	0	5	0	5	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	7
06:30	0	0	3	0	3	0	0	0	0	0	0	1	5	2	8	0	0	0	0	0	0	11
06:45	0	0	5	1	6	0	1	0	0	1	0	0	7	2	9	0	0	0	0	0	0	16
Total	0	0	18	1	19	0	1	0	0	1	0	1	15	5	21	0	0	0	0	0	0	41
07:00	0	0	5	2	7	0	0	0	2	2	0	0	3	0	3	0	0	0	2	2	2	14
07:15	0	1	3	0	4	0	1	0	0	1	0	1	0	1	2	0	0	0	0	0	0	7
07:30	0	0	6	0	6	0	0	0	0	0	0	0	8	4	12	0	0	0	1	1	1	19
07:45	0	0	6	0	6	0	2	1	0	3	0	1	1	3	5	0	0	0	0	0	0	14
Total	0	1	20	2	23	0	3	1	2	6	0	2	12	8	22	0	0	0	3	3	3	54
08:00	0	0	3	0	3	1	1	0	0	2	0	0	1	1	2	0	0	0	0	0	0	7
08:15	0	0	4	0	4	0	1	0	0	1	0	2	6	1	9	0	0	1	0	1	1	15
08:30	0	1	7	2	10	0	1	0	1	2	0	0	3	2	5	0	0	0	1	1	1	18
08:45	0	0	6	0	6	0	0	0	0	0	0	1	12	1	14	0	0	0	0	0	0	20
Total	0	1	20	2	23	1	3	0	1	5	0	3	22	5	30	0	0	1	1	2	2	60
09:00	0	0	20	0	20	0	0	0	0	0	0	0	3	1	4	0	0	0	0	0	0	24



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Weather: Hot and Stormy
 CountCam 200
 Study Conducted By: Andrea

File Name : TMC1812
 Site Code :
 Start Date : 05/24/2018
 Page No : 3

Groups Printed- Trucks

Start Time	CSAH 52 Southbound					116th Ave. Westbound					CSAH 52 Northbound					Arnold Palmer Dr. 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	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
19:15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	2
19:30	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	4
19:45	0	0	2	1	3	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	4
Total	0	0	8	1	9	0	0	0	0	0	0	0	4	0	4	0	0	0	1	1	14
20:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20:15	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20:30	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20:45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	2
Total	0	0	3	0	3	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	5
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	1	0	1	0	0	0	0	0	1
21:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:45	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	2
22:00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
22:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	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	0	0	0	0	0
23:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	12	249	16	277	1	22	2	11	36	0	11	225	45	281	0	5	4	13	22	616
Apprch %	0	4.3	89.9	5.8		2.8	61.1	5.6	30.6		0	3.9	80.1	16		0	22.7	18.2	59.1		
Total %	0	1.9	40.4	2.6	45	0.2	3.6	0.3	1.8	5.8	0	1.8	36.5	7.3	45.6	0	0.8	0.6	2.1	3.6	

**ANOKA COUNTY HIGHWAY
PC-WARRANTS
TRAFFIC SIGNAL WARRANT ANALYSIS**

Study Name: **TMC1812**
Study Date: **07/30/2018**
Page No: **1**

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 52
Number of Lanes : 2

Total Approach Volume: 11,099

Southbound: CSAH 52
Number of Lanes : 2

Total Approach Volume: 10,268

Minor Street Approaches

Eastbound: Arnold Palmer Dr.
Number of Lanes : 1

Total Approach Volume: 554

Westbound: 116th Ave.
Number of Lanes : 1

Total Approach Volume: 1,162

Warrant Summary (Rural Values Apply)

- Warrant 1 - Eight Hour Vehicular Volumes.....**Satisfied**
 - Warrant 1A - Minimum Vehicular Volume.....**Not Satisfied**
Required volumes reached for 2 hours, 8 are needed
 - Warrant 1B - Interruption of Continuous Traffic.....**Satisfied**
Required volumes reached for 13 hours, 8 are needed
 - Warrant 1C - Combination of Warrants.....**Not Satisfied**
Required 1A volumes reached for 4 hours, 8 are needed
Required 1B volumes reached for 15 hours, 8 are needed

- Warrant 2 - Four Hour Volumes.....**Satisfied**
Number of hours (11) volumes exceed minimum >= minimum required (4).

- Warrant 3 - Peak Hour.....**Satisfied**
 - Warrant 3A - Peak Hour Delay.....**Not Satisfied**
Approach volumes on minor street don't exceed minimums for any hour. Delay data not evaluated.
 - Warrant 3B - Peak Hour Volumes.....**Satisfied**
Volumes exceed minimums for at least one hour.

- 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: **TMC1812**
Study Date: **07/30/2018**
Page No: **2**

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 2 hours meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

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

Veh/Hr Minor = **105**

Time	Major Road CSAH 52				Total	Minor Road Arnold Palmer Dr.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
07:15 - 08:15	296	+	1273	=	1569	57	121	Yes
06:15 - 07:15	187	+	1363	=	1550	58	107	Yes
16:30 - 17:30	1593	+	708	=	2301	31	78	No
16:45 - 17:45	1553	+	748	=	2301	29	88	No
16:15 - 17:15	1607	+	667	=	2274	33	67	No
17:00 - 18:00	1534	+	739	=	2273	30	85	No
16:00 - 17:00	1651	+	595	=	2246	36	62	No
17:15 - 18:15	1423	+	712	=	2135	39	88	No
15:45 - 16:45	1437	+	555	=	1992	34	61	No
17:30 - 18:30	1298	+	674	=	1972	38	85	No
17:45 - 18:45	1174	+	640	=	1814	40	73	No
15:30 - 16:30	1186	+	535	=	1721	38	57	No
18:00 - 19:00	1021	+	568	=	1589	40	79	No
15:15 - 16:15	998	+	503	=	1501	34	60	No
18:15 - 19:15	947	+	500	=	1447	31	70	No
19:15 - 20:15	1015	+	425	=	1440	31	49	No
19:00 - 20:00	993	+	444	=	1437	30	54	No
14:30 - 15:30	930	+	465	=	1395	23	62	No
19:30 - 20:30	980	+	396	=	1376	25	40	No
14:45 - 15:45	887	+	477	=	1364	30	62	No
14:15 - 15:15	857	+	479	=	1336	20	52	No
18:30 - 19:30	881	+	452	=	1333	32	69	No
15:00 - 16:00	844	+	485	=	1329	32	57	No
06:00 - 07:00	145	+	1183	=	1328	51	79	No
18:45 - 19:45	916	+	405	=	1321	34	69	No

ANOKA COUNTY HIGHWAY PC-WARRANTS TRAFFIC SIGNAL WARRANT ANALYSIS

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Warrant 1B - Interruption of Continuous Traffic

Description

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

Summary

13 hours meet minimums.
 Warrant IS met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **630**
 Veh/Hr Minor = **53**

Time	Major Road CSAH 52				Total	Minor Road Arnold Palmer Dr.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:30 - 17:30	1593	+	708	=	2301	31	78	Yes
17:30 - 18:30	1298	+	674	=	1972	38	85	Yes
15:30 - 16:30	1186	+	535	=	1721	38	57	Yes
07:15 - 08:15	296	+	1273	=	1569	57	121	Yes
06:15 - 07:15	187	+	1363	=	1550	58	107	Yes
14:30 - 15:30	930	+	465	=	1395	23	62	Yes
18:30 - 19:30	881	+	452	=	1333	32	69	Yes
08:15 - 09:15	336	+	720	=	1056	49	98	Yes
12:15 - 13:15	480	+	432	=	912	31	55	Yes
11:15 - 12:15	448	+	448	=	896	26	68	Yes
09:15 - 10:15	314	+	525	=	839	26	62	Yes
10:15 - 11:15	368	+	429	=	797	31	76	Yes
05:15 - 06:15	69	+	661	=	730	24	57	Yes
19:30 - 20:30	980	+	396	=	1376	25	40	No
14:15 - 15:15	857	+	479	=	1336	20	52	No
19:45 - 20:45	845	+	357	=	1202	17	32	No
14:00 - 15:00	736	+	451	=	1187	21	49	No
13:45 - 14:45	651	+	435	=	1086	20	37	No
13:30 - 14:30	606	+	419	=	1025	20	33	No
20:00 - 21:00	671	+	299	=	970	15	30	No
13:15 - 14:15	580	+	387	=	967	24	42	No
20:15 - 21:15	513	+	241	=	754	10	28	No
20:30 - 21:30	448	+	205	=	653	10	19	No
05:00 - 06:00	60	+	529	=	589	14	42	No
20:45 - 21:45	384	+	162	=	546	13	16	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: **TMC1812**

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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 4 hours meet 1A minimums.
15 hours meet 1B minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **336 504**

Veh/Hr Minor = **84 42**

Major Road CSAH 52

Minor Road Arnold Palmer Dr.

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:45 - 17:45	1553	+	748	=	2301	29	88	Yes
07:15 - 08:15	296	+	1273	=	1569	57	121	Yes
06:15 - 07:15	187	+	1363	=	1550	58	107	Yes
08:15 - 09:15	336	+	720	=	1056	49	98	Yes
16:30 - 17:30	1593	+	708	=	2301	31	78	No
16:15 - 17:15	1607	+	667	=	2274	33	67	No
16:00 - 17:00	1651	+	595	=	2246	36	62	No
15:45 - 16:45	1437	+	555	=	1992	34	61	No
17:45 - 18:45	1174	+	640	=	1814	40	73	No
15:30 - 16:30	1186	+	535	=	1721	38	57	No
18:00 - 19:00	1021	+	568	=	1589	40	79	No
15:15 - 16:15	998		503		1501	34	60	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
17:00 - 18:00	1534	+	739	=	2273	30	85	Yes
16:00 - 17:00	1651	+	595	=	2246	36	62	Yes
07:00 - 08:00	291	+	1405	=	1696	63	136	Yes
18:00 - 19:00	1021	+	568	=	1589	40	79	Yes
19:00 - 20:00	993	+	444	=	1437	30	54	Yes
15:00 - 16:00	844	+	485	=	1329	32	57	Yes
06:00 - 07:00	145	+	1183	=	1328	51	79	Yes
14:00 - 15:00	736	+	451	=	1187	21	49	Yes
08:00 - 09:00	318	+	793	=	1111	52	115	Yes
09:00 - 10:00	337	+	599	=	936	29	69	Yes
12:00 - 13:00	492	+	437	=	929	33	61	Yes
13:00 - 14:00	526		397		923	22	43	Yes

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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.

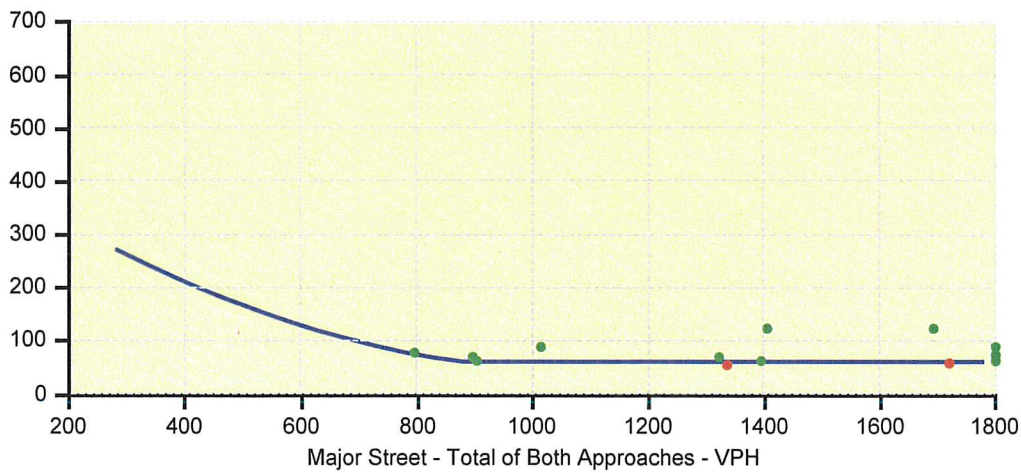
Summary

11 hours meet minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = True
Number of Major Lanes = 2 or more
Number of Minor Lanes = 1

Time	Major Road CSAH 52				Total	Minor Road Arnold Palmer Dr.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:45 - 17:45	1553	+	748	=	2301	29	88	Yes
15:45 - 16:45	1437	+	555	=	1992	34	61	Yes
17:45 - 18:45	1174	+	640	=	1814	40	73	Yes
06:30 - 07:30	234	+	1460	=	1694	54	123	Yes
07:30 - 08:30	300	+	1104	=	1404	62	121	Yes
14:30 - 15:30	930	+	465	=	1395	23	62	Yes
18:45 - 19:45	916	+	405	=	1321	34	69	Yes
08:30 - 09:30	338	+	677	=	1015	45	88	Yes
05:30 - 06:30	90	+	812	=	902	34	60	Yes
11:15 - 12:15	448	+	448	=	896	26	68	Yes
10:15 - 11:15	368	+	429	=	797	31	76	Yes
							57	No



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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

15 hours meet minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = True
Number of Major Lanes = 2 or more
Number of Minor Lanes = 1

Time	Major Road CSAH 52				Total	Minor Road Arnold Palmer Dr.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:30 - 17:30	1593	+	708	=	2301	31	78	Yes
16:45 - 17:45	1553	+	748	=	2301	29	88	Yes
17:00 - 18:00	1534	+	739	=	2273	30	85	Yes
17:15 - 18:15	1423	+	712	=	2135	39	88	Yes
17:30 - 18:30	1298	+	674	=	1972	38	85	Yes
06:45 - 07:45	269	+	1449	=	1718	69	142	Yes
07:00 - 08:00	291	+	1405	=	1696	63	136	Yes
06:30 - 07:30	234	+	1460	=	1694	54	123	Yes
18:00 - 19:00	1021	+	568	=	1589	40	79	Yes
07:15 - 08:15	296	+	1273	=	1569	57	121	Yes
06:15 - 07:15	187	+	1363	=	1550	58	107	Yes
							121	Yes

