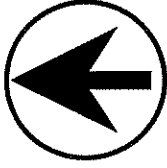


Date : 07/13/00

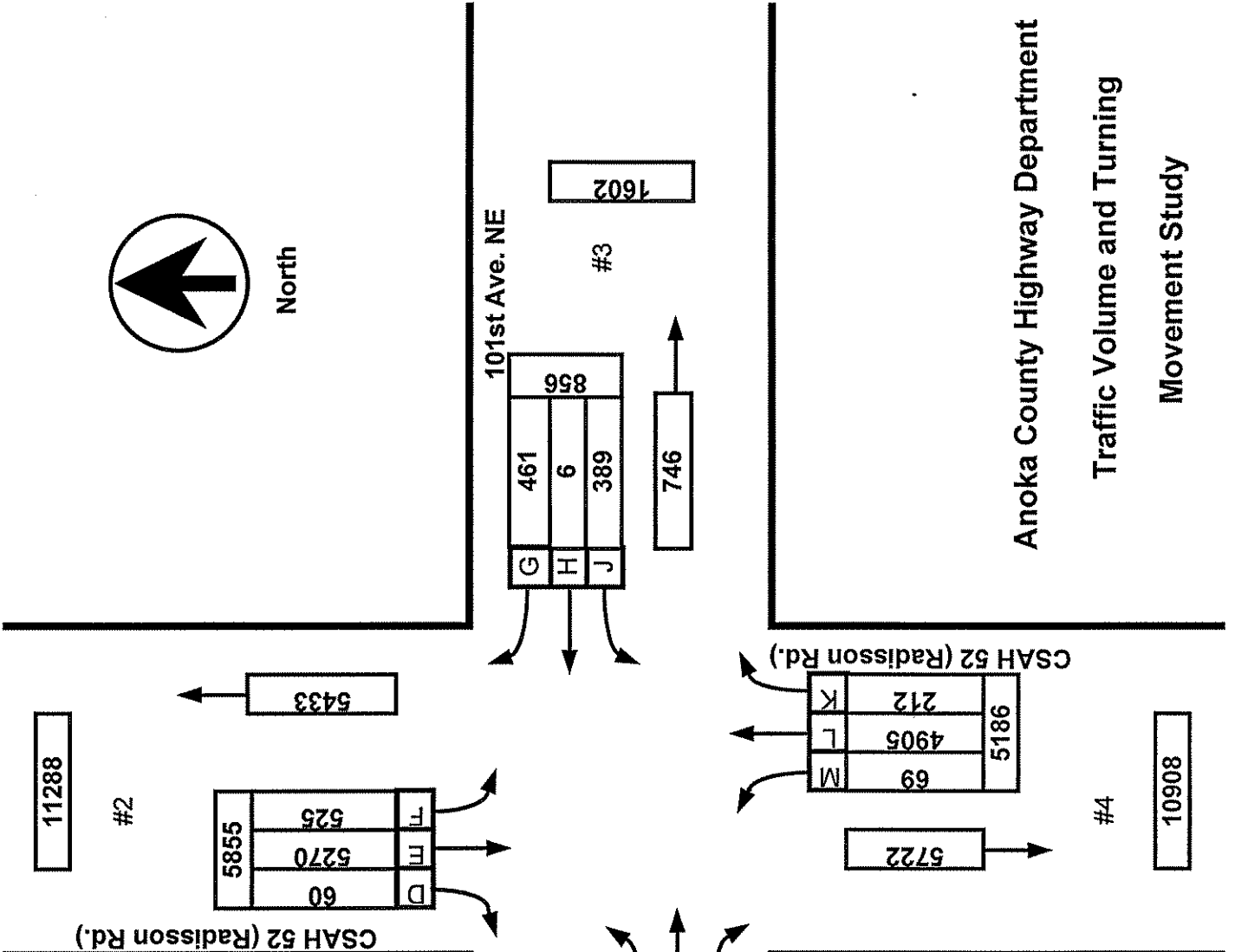
Count Number : TMC0015

Location : CSAH 52 (Radisson Rd.)

Flanders Ct. NE



North



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

Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Anoka County Highway Department

Traffic Engineering

Traffic Volume and Turning Movement Study

Weather: Partly Cloudy
 Counter TDC-8
 Counted by: Ryan & Justin

File Name : TMC0015
 Site Code : 00150101
 Start Date : 07/13/2000
 Page No : 1

Groups Printed- 1 - 1 - Unshifted

Start Time	CSAH 52 (Radisson Rd.) Southbound					101st Ave. NE Westbound					CSAH 52 (Radisson Rd.) Northbound					Flanders Ct. NE Eastbound					Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total			
06:00	8	137	2	0	147	6	0	6	1	12	1	23	4	1	28	0	0	0	0	0	2	187	189
06:15	10	161	1	0	172	5	0	2	1	7	0	39	4	0	43	0	0	0	0	0	1	222	223
06:30	13	165	0	1	178	7	1	2	0	10	1	41	1	3	43	0	0	0	0	0	4	231	235
06:45	8	195	2	2	205	5	0	4	0	9	0	60	10	2	70	0	0	0	0	0	4	284	288
Total	39	658	5	3	702	23	1	14	2	38	2	163	19	6	184	0	0	0	0	0	11	924	935
07:00	13	188	1	2	202	5	0	2	0	7	2	45	8	3	55	1	0	1	0	2	5	266	271
07:15	13	187	1	5	201	5	0	3	1	8	2	45	10	2	57	2	0	1	0	3	8	269	277
07:30	8	144	3	1	155	4	0	12	0	16	1	65	10	1	76	0	0	0	0	0	2	247	249
07:45	7	180	4	2	191	8	0	4	4	12	1	48	5	2	54	2	0	0	0	2	8	259	267
Total	41	699	9	10	749	22	0	21	5	43	6	203	33	8	242	5	0	2	0	7	23	1041	1064
08:00	12	146	2	4	160	5	0	9	1	14	4	46	17	1	67	0	0	1	0	1	6	242	248
08:15	8	114	1	1	123	4	0	6	2	10	2	31	8	3	41	0	0	1	0	1	6	175	181
08:30	8	87	0	5	95	8	0	7	2	15	1	24	2	3	27	0	0	0	0	0	10	137	147
08:45	13	104	1	1	118	3	0	7	2	10	3	71	6	2	80	0	0	0	0	0	5	208	213
Total	41	451	4	11	496	20	0	29	7	49	10	172	33	9	215	0	0	2	0	2	27	762	789
09:00	6	69	2	3	77	18	0	9	2	27	2	43	5	3	50	0	0	0	0	0	8	154	162
09:15	15	78	2	3	95	7	0	5	1	12	0	47	1	2	48	0	0	0	0	0	6	155	161
09:30	11	64	0	1	75	11	0	10	1	21	0	31	2	2	33	1	0	0	0	1	4	130	134
09:45	14	46	3	2	63	8	0	5	2	13	4	30	5	1	39	0	0	1	0	1	5	116	121
Total	46	257	7	9	310	44	0	29	6	73	6	151	13	8	170	1	0	1	0	2	23	555	578
10:00	7	56	0	1	63	16	0	6	3	22	2	41	2	3	45	0	0	1	0	1	7	131	138
10:15	16	48	0	3	64	4	1	9	0	14	2	57	5	2	64	1	0	2	0	3	5	145	150
10:30	18	53	1	3	72	8	0	14	3	22	3	53	2	1	58	0	0	2	0	2	7	154	161
10:45	8	56	2	2	66	10	0	7	2	17	2	55	4	2	61	1	1	1	0	3	6	147	153
Total	49	213	3	9	285	38	1	36	8	75	9	206	13	8	228	2	1	6	0	9	25	577	602
11:00	12	54	1	2	67	9	0	11	2	20	0	32	2	1	34	1	0	0	0	1	5	122	127
11:15	15	66	1	4	82	6	0	3	3	9	2	34	3	0	39	0	1	2	0	3	7	133	140
11:30	13	74	0	2	87	11	0	10	4	21	0	63	3	2	66	0	0	0	0	0	8	174	182
11:45	13	63	0	4	76	8	0	3	2	11	2	38	2	1	42	0	0	2	0	2	7	131	138
Total	53	257	2	12	312	34	0	27	11	61	4	167	10	4	181	1	1	4	0	6	27	560	587
12:00	11	65	0	5	76	9	1	10	1	20	0	30	4	2	34	0	0	1	0	1	8	131	139
12:15	14	48	0	1	62	11	0	4	5	15	2	59	4	3	65	0	1	1	0	2	9	144	153
12:30	10	59	5	2	74	4	0	16	1	20	2	65	5	2	72	4	0	1	0	5	5	171	176
12:45	14	52	2	3	68	6	0	8	1	14	2	58	4	2	64	2	1	3	1	6	7	152	159
Total	49	224	7	11	280	30	1	38	8	69	6	212	17	9	235	6	2	6	1	14	29	598	627
13:00	10	58	0	1	68	9	1	14	3	24	3	48	3	2	54	2	1	3	0	6	6	152	158
13:15	9	61	1	2	71	12	0	13	3	25	0	49	2	3	51	0	0	2	1	2	9	149	158
13:30	13	63	0	3	76	14	0	9	2	23	3	48	4	3	55	1	0	2	0	3	8	157	165
13:45	9	61	3	2	73	11	0	7	2	18	2	60	7	4	69	1	1	2	0	4	8	164	172
Total	41	243	4	8	288	46	1	43	10	90	8	205	16	12	229	4	2	9	1	15	31	622	653
14:00	8	43	1	2	52	4	0	4	2	8	2	63	4	3	69	0	0	0	0	0	7	129	136
14:15	4	65	0	2	69	3	1	5	0	9	0	89	2	2	91	0	0	0	0	0	4	169	173
14:30	5	52	1	0	58	3	0	7	1	10	1	116	6	1	123	2	1	2	0	5	2	196	198
14:45	9	60	2	3	71	8	0	2	3	10	2	114	4	0	120	8	0	2	0	10	6	211	217
Total	26	220	4	7	250	18	1	18	6	37	5	382	16	6	403	10	1	4	0	15	19	705	724
15:00	7	72	2	2	81	6	0	2	2	8	2	110	5	0	117	5	0	3	0	8	4	214	218
15:15	8	70	3	3	81	6	0	19	0	25	2	118	4	3	124	1	0	3	0	4	6	234	240
15:30	11	82	2	3	95	12	0	13	3	25	2	125	5	3	132	6	0	2	0	8	9	260	269
15:45	13	61	3	2	77	2	0	10	1	12	1	120	3	4	124	2	0	1	0	3	7	216	223
Total	39	285	10	10	334	26	0	44	6	70	7	473	17	10	497	14	0	9	0	23	26	924	950
16:00	5	92	0	1	97	11	0	13	1	24	0	159	2	0	161	9	0	1	0	10	2	292	294
16:15	9	59	0	1	68	1	0	16	0	17	2	177	4	2	183	6	0	1	0	7	3	275	278
16:30	7	113	2	1	122	17	0	16	0	33	0	169	2	1	171	3	1	4	0	8	2	334	336
16:45	6	64	1	1	71	8	0	15	0	23	1	184	1	2	186	1	0	1	0	2	3	282	285
Total	27	328	3	4	358	37	0	60	1	97	3	689	9	5	701	19	1	7	0	27	10	1183	1193

Anoka County Highway Department
Traffic Engineering

Traffic Volume and Turning Movement Stud

Weather: Partly Cloudy
Counter TDC-8
Counted by: Ryan & Justin

File Name : TMC0015
Site Code : 00150101
Start Date : 07/13/2000
Page No : 2

Groups Printed- 1 - 1 - Unshifted

Start Time	CSAH 52 (Radisson Rd.) Southbound					101st Ave. NE Westbound					CSAH 52 (Radisson Rd.) Northbound					Flanders Ct. NE Eastbound					Exclu. Total	Inclu. Total	Int. Total			
	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total						
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0							
17:00	6	97	0	0	103	15	0	13	0	28	1	191	1	0	193	1	0	3	1	4	1	328	329			
17:15	4	59	0	0	63	5	0	7	0	12	0	172	2	2	174	1	0	2	0	3	2	252	254			
17:30	6	72	0	0	78	17	0	20	0	37	0	189	3	0	192	2	0	2	0	4	0	311	311			
17:45	13	63	0	0	76	2	0	6	0	8	0	182	1	0	183	0	0	0	0	0	0	267	267			
Total	29	291	0	0	320	39	0	46	0	85	1	734	7	2	742	4	0	7	1	11	3	1158	1161			
18:00	11	76	0	0	87	1	0	9	0	10	0	180	6	1	186	0	0	0	0	0	1	283	284			
18:15	10	59	2	0	71	1	0	6	0	7	0	146	0	0	146	0	0	1	0	1	0	225	225			
18:30	2	54	0	0	56	0	0	2	0	2	1	105	0	0	106	1	0	2	0	3	0	167	167			
18:45	2	77	0	0	79	2	0	8	0	10	0	73	0	1	73	0	0	0	0	0	1	162	163			
Total	25	266	2	0	293	4	0	25	0	29	1	504	6	2	511	1	0	3	0	4	2	837	839			
19:00	2	79	0	0	81	0	0	4	0	4	0	91	2	0	93	0	0	1	0	1	0	179	179			
19:15	1	65	0	0	66	0	0	6	0	6	0	70	0	0	70	0	0	1	0	1	0	143	143			
19:30	8	65	0	0	73	0	0	2	0	2	0	54	0	0	54	0	0	0	0	0	0	129	129			
19:45	3	69	0	0	72	0	1	2	0	3	0	66	0	0	66	0	0	0	0	0	0	141	141			
Total	14	278	0	0	292	0	1	14	0	15	0	281	2	0	283	0	0	2	0	2	0	592	592			
20:00	0	79	0	0	79	1	0	2	0	3	0	56	0	0	56	0	0	0	0	0	0	138	138			
20:15	0	88	0	0	88	0	0	1	0	1	1	56	1	0	58	0	0	0	0	0	0	147	147			
20:30	0	93	0	0	93	0	0	4	0	4	0	43	0	1	43	0	0	1	0	1	1	141	142			
20:45	0	59	0	0	59	0	0	3	0	3	0	48	0	0	48	0	0	0	0	0	0	110	110			
Total	0	319	0	0	319	1	0	10	0	11	1	203	1	1	205	0	0	1	0	1	1	536	537			
21:00	0	73	0	1	73	1	0	2	0	3	0	45	0	0	45	0	0	0	0	0	1	121	122			
21:15	1	84	0	0	85	1	0	2	0	3	0	41	0	0	41	0	0	0	0	0	0	129	129			
21:30	3	66	0	0	69	3	0	2	0	5	0	39	0	0	39	0	0	0	0	0	0	113	113			
21:45	2	58	0	0	60	2	0	1	0	3	0	35	0	0	35	0	1	0	0	1	0	99	99			
Total	6	281	0	1	287	7	0	7	0	14	0	160	0	0	160	0	1	0	0	1	1	462	463			
Grand Total	525	527	60	95	5855	389	6	461	70	856	69	490	212	90	5186	67	9	63	3	139	258	12036	12294			
Apprch %	9.0	90.0	1.0			45.4	0.7	53.9			1.3	94.6	4.1			48.2	6.5	45.3			2.1	97.9				
Total %	4.4	43.8	0.5		48.6	3.2	0.0	3.8		7.1	0.6	40.8	1.8		43.1	0.6	0.1	0.5		1.2	2.1	97.9				

or Street Approaches:

Northbound:

CSAH 52 (Radisson Rd.)

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0015.war

Count Type: IMC. Channel: 0. Count Date: 7/13/ 0

Number of Lanes: 2

Approach Speed: 55

Total Approach Traffic: 5186

Southbound:

CSAH 52 (Radisson Rd.)

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0015.war

Count Type: IMC. Channel: 0. Count Date: 7/13/ 0

Number of Lanes: 2

Approach Speed: 55

Total Approach Traffic: 5855

Minor Street Approaches:

Eastbound:

Flanders Ct. NE

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0015.war

Count Type: IMC. Channel: 0. Count Date: 7/13/ 0

Number of Lanes: 1

Approach Speed: 35

Total Approach Traffic: 139

Westbound:

101st Ave. NE

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0015.war

Count Type: IMC. Channel: 0. Count Date: 7/13/ 0

Number of Lanes: 1

Approach Speed: 35

Total Approach Traffic: 856

Analysis of 8-Hour Volume Warrants (Criteria refers to high volume side street for that hour):

Hour	Main (Total)	Side Vol.	Dir.	Rank	Warrant 1 Meets?	Warrant 1 Criteria	Warrant 2 Meets?	Warrant 2 Criteria	Warrant 8 Meets?	Warrant 8 Criteria
0	0	0	W	17		105		52		84
1	0	0	W	18		105		52		84
2	0	0	W	19		105		52		84
3	0	0	W	20		105		52		84
4	0	0	W	21		105		52		84
5	0	0	W	22		105		52		84
6	886	38	W	11	MAIN	105	MAIN	52	MAIN	84
7	991	43	W	10	MAIN	105	MAIN	52	MAIN	84
8	711	49	W	9	MAIN	105	MAIN	52	MAIN	84
9	480	73	W	5	MAIN	105	SIDE	52		84
10	493	75	W	4	MAIN	105	SIDE	52		84
11	493	61	W	8	MAIN	105	SIDE	52		84
12	515	69	W	7	MAIN	105	SIDE	52	MAIN	84
13	517	90	W	2	MAIN	105	SIDE	52	--BOTH--	84
14	653	37	W	12	MAIN	105	MAIN	52	MAIN	84
15	831	70	W	6	MAIN	105	--BOTH--	52	MAIN	84
16	1059	97	W	1	MAIN	105	--BOTH--	52	--BOTH--	84
17	1062	85	W	3	MAIN	105	--BOTH--	52	--BOTH--	84
18	804	29	W	13	MAIN	105	MAIN	52	MAIN	84
19	575	15	W	14	MAIN	105		52	MAIN	84
20	524	11	W	16	MAIN	105		52	MAIN	84
21	447	14	W	15	MAIN	105		52		84
22	0	0	W	23		105		52		84
23	0	0	W	24		105		52		84

Warrant Summary:

Rural values apply.

Warrant 1 - Minimum Vehicular Volumes

NOT SATISFIED. Required values reached for 0 hours. Criteria--Main St.: 420; Side St.: See Volume Summary.

Warrant 2 - Interruption of Continuous Traffic

NOT SATISFIED. Required values reached for 3 hours. Criteria--Main St.: 630; Side St.: See Volume Summary.

Warrant 3 - Minimum Pedestrian Volumes

NOT SATISFIED. 8th-High Hour--Pedestrians: 6; Vehicles: 831. Criteria--Pedestrians: 105; Vehicles: 420.

Warrant 4 - School Crossing

NOT APPLICABLE. Gap data has not been defined.

Warrant 5 - Progressive Movement

NOT SATISFIED. Adjacent signals closer than 1000 feet and/or not part of coordinated system.

Warrant 6 - Accident Experience

NOT SATISFIED. 0 correctable accidents is fewer than required 5.

Correctable Accidents: 0; Right Angle Accidents: 0; Left Turn Accidents: 0; Other Accidents: 0.

Warrant 7 - Systems Warrant

NOT SATISFIED. At least one street has no major approaches. Peak hour total entering volume: 1183.

- Approaches which are part of the principal through traffic roadway network.
- Approaches which connect areas of principal traffic generation.
- Approaches which include rural or suburban highways outside, entering or traversing a city.
- Approaches which have surface street freeway or expressway ramp terminals.
- Approaches which appear as a major route in an official transportation plan.

Warrant 8 - Combination of Warrants

NOT SATISFIED. Required values reached for 3 hours. Criteria--Main: 504; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

NOT SATISFIED. Required values reached for 2 hours.

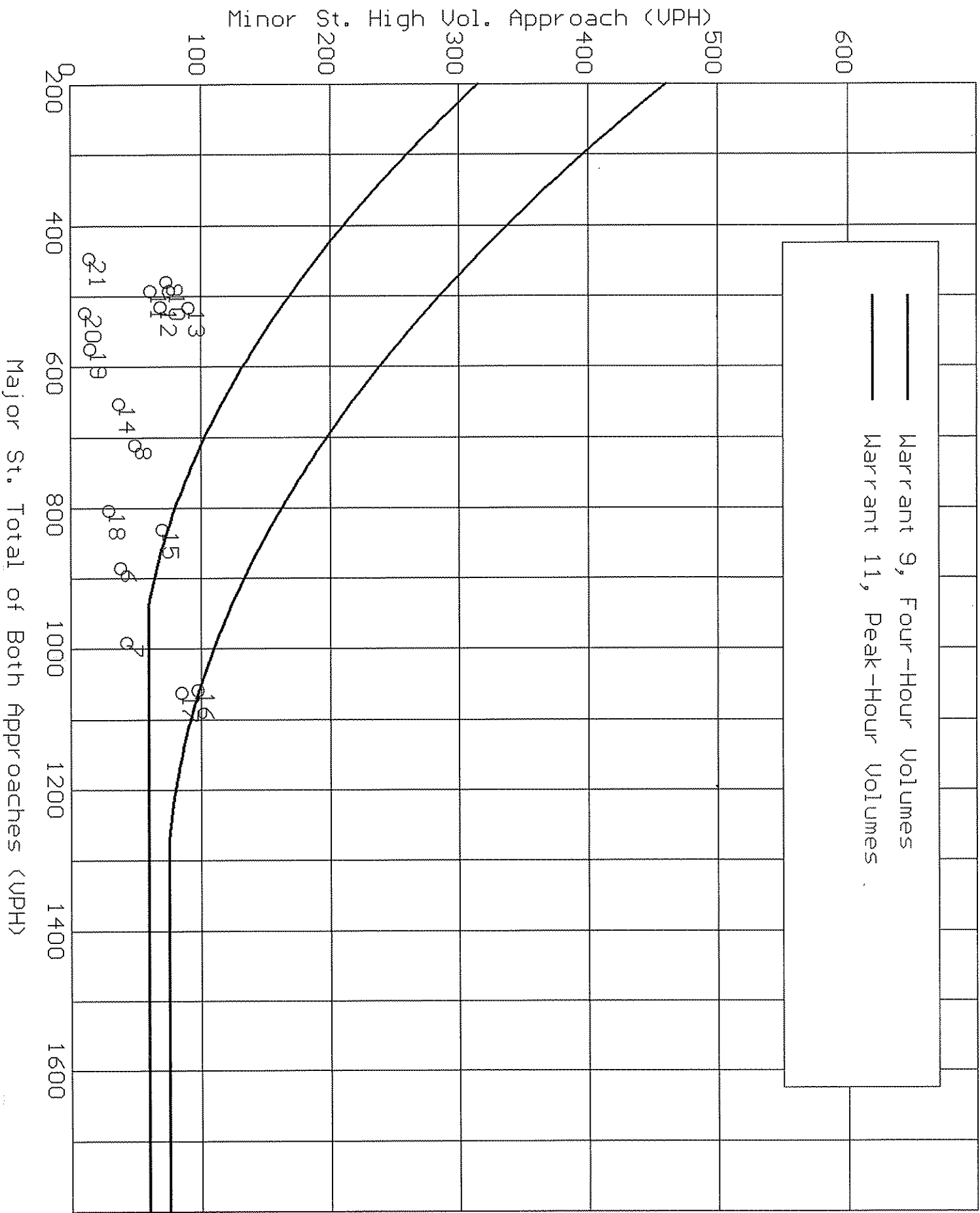
Warrant 10 - Peak Hour Delay

NOT SATISFIED. Peak hour (1600 hours) volume not adequate.

Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 100.

Warrant 11 - Peak Hour Volume

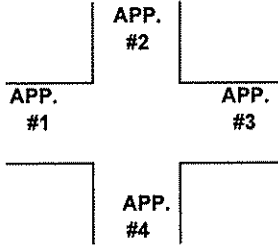
SATISFIED for 1 hours.





COUNT LOCATION: CSAH 52@ DATE: 7/11/00
Flanders / 101st

NORTH
APP. #1 = SB CSAH 52
APP. #2 = WB 101st
APP. #3 = NB CSAH 52
APP. #4 = EB Flanders



HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT
 A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.
 B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.
 C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:00-6:15AM						2		
6:15-6:30						1		
6:30-6:45						4		
6:45-7:00						4		
HOURLY TOTAL						HOURLY TOTAL		11
7:00-7:15						4		
7:15-7:30						8		
7:30-7:45						2		
7:45-8:00						8		
HOURLY TOTAL						HOURLY TOTAL		22
8:00-8:15						5		1
8:15-8:30						6		
8:30-8:45						8		1
8:45-9:00						5		
HOURLY TOTAL						HOURLY TOTAL		26
9:00-9:15						8		
9:15-9:30						5		1
9:30-9:45						4		
9:45-10:00						5		
HOURLY TOTAL						HOURLY TOTAL		23
10:00-10:15						7		
10:15-10:30						5		
10:30-10:45						6		1
10:45-11:00						6		
HOURLY TOTAL						HOURLY TOTAL		25
11:00-11:15						5		
11:15-11:30						7		
11:30-11:45						8		
11:45-12:00						7		
HOURLY TOTAL						HOURLY TOTAL		27
12:00-12:15						8		1
12:15-12:30						8		
12:30-12:45						5		
12:45-1:00						7		
HOURLY TOTAL						HOURLY TOTAL		29
1:00-1:15						6		
1:15-1:30						8		1
1:30-1:45						6		1
1:45-2:00						4		
HOURLY TOTAL						HOURLY TOTAL		26

←
NORTH

APP. #1 = SB CSAH 52

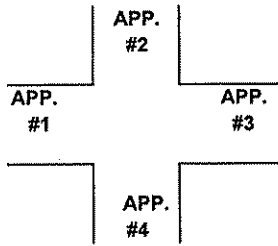
APP. #2 = WB 101st

APP. #3 = NB CSAH 52

APP. #4 = EB Flanders

COUNT LOCATION: CSAH 52@
Flanders / 101st

DATE: 7/13/00



HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT

A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.

B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.

C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
2:00-2:15PM						7		
2:15-2:30						3		1
2:30-2:45						2		
2:45-3:00						6		
HOURLY TOTAL						HOURLY TOTAL		19
3:00-3:15						4		
3:15-3:30						5		
3:30-3:45						9		
3:45-4:00						7		
HOURLY TOTAL						HOURLY TOTAL		25
4:00-4:15						1		
4:15-4:30						3		
4:30-4:45						2		
4:45-5:00						3		
HOURLY TOTAL						HOURLY TOTAL		9
5:00-5:15						1		
5:15-5:30						2		
5:30-5:45								
5:45-6:00								
HOURLY TOTAL						HOURLY TOTAL		3
6:00-6:15						1		
6:15-6:30								
6:30-6:45								
6:45-7:00						1		
HOURLY TOTAL						HOURLY TOTAL		2
7:00-7:15								
7:15-7:30								
7:30-7:45								
7:45-8:00								
HOURLY TOTAL						HOURLY TOTAL		
8:00-8:15								
8:15-8:30								
8:30-8:45						1		
8:45-9:00								
HOURLY TOTAL						HOURLY TOTAL		1
9:00-9:15						1		
9:15-9:30								
9:30-9:45								
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		1