

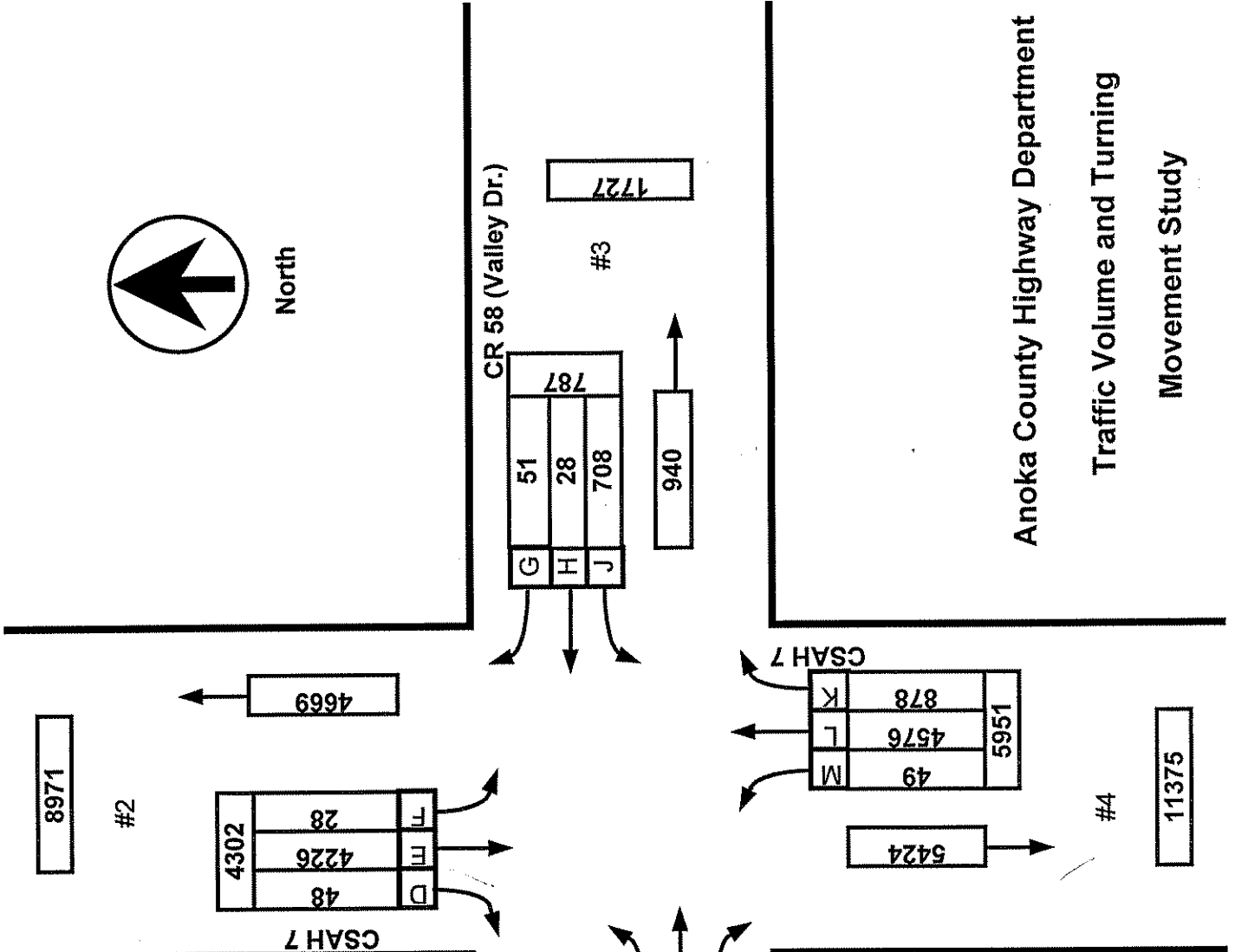
Date : 06/07/00

Count Number : TMC0008

Location : CSAH 7 @ CR 58 (Valley Dr.)



North



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

Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Anoka County Highway Department
Traffic Engineering

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

Traffic Volume and Turning Movement Study

File Name : TMC0008
Site Code : 00080101
Start Date : 06/07/2000
Page No : 1

Groups Printed- 1 - 1 - Unshifted

Start Time	CSAH 7 Southbound					CR 58 (Valley Dr.) Westbound					CSAH 7 Northbound					159th Ave. 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				
06:00	2	132	0	0	134	27	0	0	0	27	0	4	1	0	5	0	0	6	0	6	0	172	172
06:15	0	161	0	1	161	31	0	0	0	31	3	10	2	1	15	0	0	16	0	16	2	223	225
06:30	0	214	2	2	216	39	0	0	0	39	2	25	4	4	31	0	0	15	0	15	6	301	307
06:45	0	155	0	0	155	29	0	1	0	30	1	23	5	0	29	1	1	11	0	13	0	227	227
Total	2	662	2	3	666	126	0	1	0	127	6	62	12	5	80	1	1	48	0	50	8	923	931
07:00	0	156	1	2	157	26	1	1	1	28	1	31	7	4	39	0	1	22	1	23	8	247	255
07:15	0	160	0	0	160	22	0	1	0	23	4	46	3	1	53	1	1	16	0	18	1	254	255
07:30	1	155	1	1	157	10	0	2	1	12	4	36	6	0	46	2	0	20	1	22	3	237	240
07:45	0	148	0	0	148	34	0	0	0	34	1	28	4	1	33	1	0	8	0	9	1	224	225
Total	1	619	2	3	622	92	1	4	2	97	10	141	20	6	171	4	2	66	2	72	13	962	975
08:00	0	95	1	3	98	13	0	0	0	13	5	28	12	6	45	0	2	9	0	11	9	165	174
08:15	1	81	0	3	82	10	1	0	2	11	1	21	3	0	25	0	0	12	1	12	6	130	136
08:30	1	96	0	0	97	14	0	0	0	14	4	17	4	1	25	3	0	15	1	18	2	154	156
08:45	0	68	1	0	69	18	0	0	1	18	4	28	0	2	32	0	0	6	0	6	3	125	128
Total	2	340	2	6	344	55	1	0	3	56	14	94	19	9	127	3	2	42	2	47	20	574	594
09:00	0	52	0	0	52	3	2	0	0	5	8	28	5	1	41	2	0	6	0	8	1	106	107
09:15	0	50	0	1	50	11	2	1	0	14	2	32	3	0	37	0	0	6	0	6	1	107	108
09:30	0	36	0	3	36	14	1	0	0	15	0	27	4	1	31	2	0	6	0	8	4	90	94
09:45	0	42	1	2	43	7	1	1	0	9	4	20	3	1	27	0	0	8	0	8	3	87	90
Total	0	180	1	6	181	35	6	2	0	43	14	107	15	3	136	4	0	26	0	30	9	390	399
10:00	0	40	0	1	40	8	1	1	0	10	1	30	5	0	36	0	0	7	0	7	1	93	94
10:15	0	45	2	0	47	8	0	0	0	8	9	32	3	3	44	1	1	5	0	7	3	106	109
10:30	1	46	0	2	47	9	0	0	1	9	8	31	3	2	42	0	0	3	0	3	5	101	106
10:45	0	43	1	0	44	14	0	0	0	14	11	39	12	2	62	0	0	4	0	4	2	124	126
Total	1	174	3	3	178	39	1	1	1	41	29	132	23	7	184	1	1	19	0	21	11	424	435
11:00	0	40	1	0	41	9	0	0	0	9	11	45	10	0	66	0	1	4	0	5	0	121	121
11:15	0	35	0	0	35	11	0	0	0	11	7	29	12	1	48	0	0	3	0	3	1	97	98
11:30	0	37	0	0	37	11	0	0	1	11	5	35	6	0	46	1	1	5	0	7	1	101	102
11:45	1	37	1	2	39	5	0	1	0	6	8	40	11	0	59	1	1	2	0	4	2	108	110
Total	1	149	2	2	152	36	0	1	1	37	31	149	39	1	219	2	3	14	0	19	4	427	431
12:00	0	46	1	1	47	13	0	0	0	13	7	42	11	3	60	0	0	2	1	2	5	122	127
12:15	1	47	0	0	48	9	0	1	0	10	2	33	7	3	42	0	1	4	0	5	3	105	108
12:30	0	44	1	0	45	10	1	1	0	12	9	37	5	0	51	0	1	3	1	4	1	112	113
12:45	1	49	2	0	52	10	0	1	0	11	5	42	8	1	55	2	1	4	0	7	1	125	126
Total	2	186	4	1	192	42	1	3	0	46	23	154	31	7	208	2	3	13	2	18	10	464	474
13:00	2	35	3	4	40	6	0	2	0	8	2	41	11	1	54	2	1	13	0	16	5	118	123
13:15	1	46	2	0	49	9	1	0	0	10	11	48	15	1	74	0	0	5	1	5	2	138	140
13:30	0	50	1	3	51	3	1	1	0	5	9	47	12	0	68	2	1	5	0	8	3	132	135
13:45	4	49	0	2	53	6	1	1	0	8	7	50	11	2	68	1	2	7	0	10	4	139	143
Total	7	180	6	9	193	24	3	4	0	31	29	186	49	4	264	5	4	30	1	39	14	527	541
14:00	1	44	0	4	45	7	0	1	1	8	5	64	10	2	79	0	1	7	0	8	7	140	147
14:15	1	74	1	3	76	10	0	0	1	10	12	75	16	5	103	0	0	6	0	6	9	195	204
14:30	1	92	1	1	94	13	0	1	0	14	6	109	9	2	124	0	0	6	0	6	3	238	241
14:45	1	75	1	2	77	9	0	2	0	11	3	92	18	0	113	0	0	18	0	18	2	219	221
Total	4	285	3	10	292	39	0	4	2	43	26	340	53	9	419	0	1	37	0	38	21	792	813
15:00	0	51	0	1	51	18	0	1	0	19	7	119	12	0	138	0	0	6	0	6	1	214	215
15:15	0	74	1	4	75	7	0	1	0	8	3	172	37	3	212	1	0	5	0	6	7	301	308
15:30	1	60	0	2	61	9	0	1	0	10	17	137	20	5	174	0	0	10	2	10	9	255	264
15:45	0	64	0	1	64	6	0	2	1	8	3	191	54	4	248	1	3	10	0	14	6	334	340
Total	1	249	1	8	251	40	0	5	1	45	30	619	123	12	772	2	3	31	2	36	23	1104	1127
16:00	1	51	1	1	53	7	0	2	0	9	6	186	29	5	221	1	0	6	0	7	6	290	296
16:15	0	59	0	3	59	6	1	2	0	9	9	168	35	3	212	0	0	3	0	3	6	283	289
16:30	0	39	0	0	39	8	0	2	0	10	11	164	23	2	198	0	0	8	0	8	2	255	257
16:45	1	71	1	1	73	8	1	3	0	12	14	167	31	1	212	0	0	3	0	3	2	300	302
Total	2	220	2	5	224	29	2	9	0	40	40	685	118	11	843	1	0	20	0	21	16	1128	1144

Anoka County Highway Department
Traffic Engineering

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

Traffic Volume and Turning Movement Stud

File Name : TMC0008
Site Code : 00080101
Start Date : 06/07/2000
Page No : 2

Groups Printed- 1 - 1 - Unshifted

Start Time	CSAH 7 Southbound					CR 58 (Valley Dr.) Westbound					CSAH 7 Northbound					159th Ave. 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	0	73	3	0	76	10	0	2	0	12	13	161	20	1	194	1	1	4	0	6	1	288	289
17:15	0	82	0	2	82	13	1	0	1	14	24	152	43	1	219	0	0	6	0	6	4	321	325
17:30	0	74	3	1	77	16	1	0	0	17	19	173	22	0	214	1	0	11	0	12	1	320	321
17:45	0	72	1	0	73	4	0	2	0	6	19	162	35	1	216	3	2	18	0	23	1	318	319
Total	0	301	7	3	308	43	2	4	1	49	75	648	120	3	843	5	3	39	0	47	7	1247	1254
18:00	1	56	0	0	57	8	3	0	0	11	19	116	32	0	167	4	0	7	0	11	0	246	246
18:15	0	78	1	0	79	15	0	0	0	15	20	140	17	0	177	0	2	8	0	10	0	281	281
18:30	1	51	0	0	52	12	1	0	0	13	22	85	24	0	131	1	0	16	0	17	0	213	213
18:45	0	58	1	0	59	13	0	1	0	14	6	93	18	2	117	0	0	4	0	4	2	194	196
Total	2	243	2	0	247	48	4	1	0	53	67	434	91	2	592	5	2	35	0	42	2	934	936
19:00	0	54	1	1	55	11	1	0	0	12	8	66	11	0	85	0	0	11	0	11	1	163	164
19:15	1	40	0	0	41	5	0	1	0	6	7	97	19	0	123	1	3	6	3	10	3	180	183
19:30	0	39	0	0	39	3	0	1	0	4	10	94	17	1	121	0	1	6	0	7	1	171	172
19:45	0	30	1	0	31	8	0	0	0	8	7	74	19	0	100	0	0	4	0	4	0	143	143
Total	1	163	2	1	166	27	1	2	0	30	32	331	66	1	429	1	4	27	3	32	5	657	662
20:00	0	38	1	0	39	8	0	1	0	9	10	52	5	0	67	0	1	9	0	10	0	125	125
20:15	1	18	3	0	22	9	0	4	0	13	2	71	8	2	81	1	0	4	0	5	2	121	123
20:30	0	42	2	0	44	1	1	1	0	3	26	79	16	0	121	0	0	2	0	2	0	170	170
20:45	0	34	0	0	34	3	0	0	0	3	10	51	23	0	84	0	0	4	0	4	0	125	125
Total	1	132	6	0	139	21	1	6	0	28	48	253	52	2	353	1	1	19	0	21	2	541	543
21:00	1	40	1	0	42	2	0	1	0	3	5	60	14	0	79	0	2	8	0	10	0	134	134
21:15	0	38	2	1	40	3	2	0	0	5	11	56	7	0	74	1	0	1	0	2	1	121	122
21:30	0	32	0	0	32	3	3	1	0	7	4	65	13	2	82	3	1	9	0	13	2	134	136
21:45	0	33	0	0	33	4	0	2	0	6	3	60	13	0	76	1	1	6	0	8	0	123	123
Total	1	143	3	1	147	12	5	4	0	21	23	241	47	2	311	5	4	24	0	33	3	512	515
Grand Total	28	422	48	61	4302	708	28	51	11	787	497	457	878	84	5951	42	34	490	12	566	168	11608	11774
Apprch %	0.7	98.2	1.1			90.0	3.6	6.5			8.4	76.9	14.8			7.4	6.0	86.6					
Total %	0.2	36.4	0.4		37.1	6.1	0.2	0.4		6.8	4.3	39.4	7.6		51.3	0.4	0.3	4.2		4.9	1.4	98.6	

Major Street Approaches:

Northbound:

CSAH 7

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0008.war
 Count Type: IMC. Channel: 0. Count Date: 6/ 7/ 0
 Number of Lanes: 2
 Approach Speed: 55
 Total Approach Traffic: 5951

Southbound:

CSAH 7

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0008.war
 Count Type: IMC. Channel: 0. Count Date: 6/ 7/ 0
 Number of Lanes: 2
 Approach Speed: 55
 Total Approach Traffic: 4302

Minor Street Approaches:

Eastbound:

159th Ave.

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0008.war
 Count Type: IMC. Channel: 0. Count Date: 6/ 7/ 0
 Number of Lanes: 1
 Approach Speed: 35
 Total Approach Traffic: 566

Westbound:

CR 58 (Valley Dr.)

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0008.war
 Count Type: IMC. Channel: 0. Count Date: 6/ 7/ 0
 Number of Lanes: 2
 Approach Speed: 55
 Total Approach Traffic: 787

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

Hour	Main Begin (Total)	Side			Warrant 1		Warrant 2		Warrant 8	
		Vol.	Dir.	Rank	Meets?	Criteria	Meets?	Criteria	Meets?	Criteria
0	0	0	W	17		140		70		112
1	0	0	W	18		140		70		112
2	0	0	W	19		140		70		112
3	0	0	W	20		140		70		112
4	0	0	W	21		140		70		112
5	0	0	W	22		140		70		112
6	746	127	W	1	MAIN	140	--BOTH--	70	--BOTH--	112
7	793	97	W	2	MAIN	140	--BOTH--	70	MAIN	112
8	471	56	W	3	MAIN	140		70		112
9	317	43	W	8		140		70		112
10	362	41	W	10		140		70		112
11	371	37	W	13		140		70		112
12	400	46	W	6		140		70		112
13	457	39	E	12	MAIN	105		52		84
14	711	43	W	9	MAIN	140	MAIN	70	MAIN	112
15	1023	45	W	7	MAIN	140	MAIN	70	MAIN	112
16	1067	40	W	11	MAIN	140	MAIN	70	MAIN	112
17	1151	49	W	5	MAIN	140	MAIN	70	MAIN	112
18	839	53	W	4	MAIN	140	MAIN	70	MAIN	112
19	595	32	E	15	MAIN	105		52	MAIN	84
20	492	28	W	16	MAIN	140		70		112
21	458	33	E	14	MAIN	105		52		84
22	0	0	W	23		140		70		112
23	0	0	W	24		140		70		112

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 2 hours. Criteria--Main St.: 630; Side St.: See Volume Summary.

Warrant 3 - Minimum Pedestrian Volumes

NOT SATISFIED. 8th-High Hour--Pedestrians: 1; Vehicles: 371. 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: 1247.

- 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 1 hours. Criteria--Main: 504; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

NOT SATISFIED. Required values reached for 2 hours.

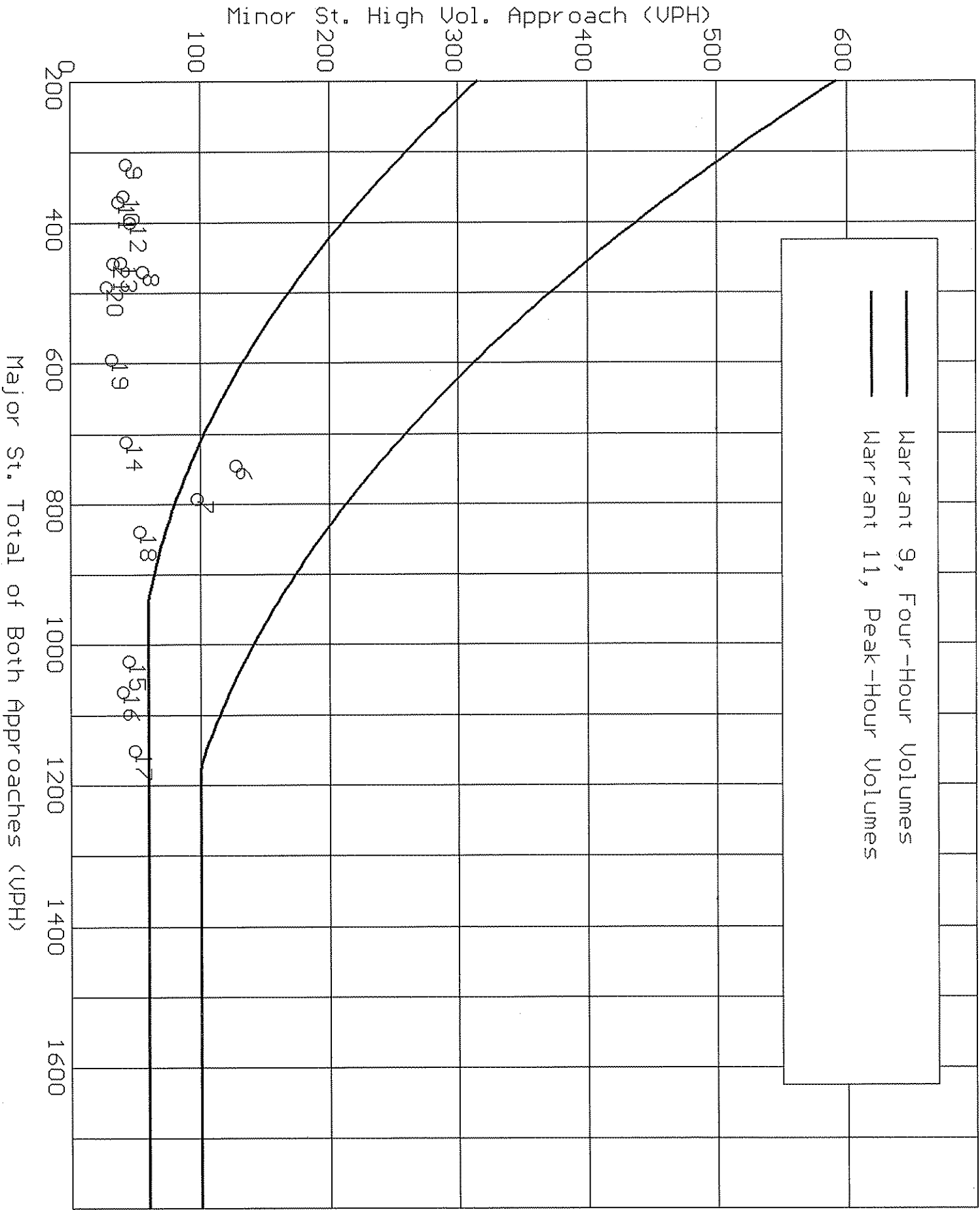
Warrant 10 - Peak Hour Delay

NOT SATISFIED. Peak hour (1700 hours) volume not adequate.

Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 150.

Warrant 11 - Peak Hour Volume

NOT SATISFIED.



COUNT LOCATION: 7th Ave. @
CSAH 58

DATE: 6/7/00

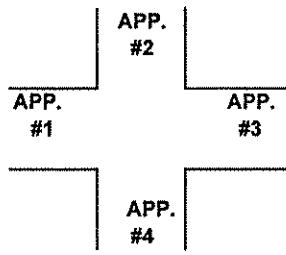
NORTH

APP. #1 = SB 7th Ave.

APP. #2 = WB CSAH 58
(Valley Drive NW)

APP. #3 = NB 7th Ave.

APP. #4 = EB 159th Ave. NW



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.

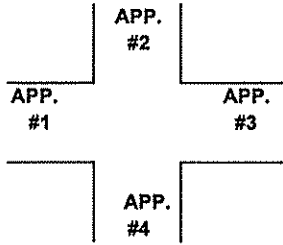
C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:00-6:15AM								
6:15-6:30						2		
6:30-6:45						3		3
6:45-7:00								
HOURLY TOTAL						HOURLY TOTAL		8
7:00-7:15						3		5
7:15-7:30								1
7:30-7:45								3
7:45-8:00						1		2
HOURLY TOTAL						HOURLY TOTAL		15
8:00-8:15						4		5
8:15-8:30						1		5
8:30-8:45						1		1
8:45-9:00						3		
HOURLY TOTAL						HOURLY TOTAL		20
9:00-9:15						1		
9:15-9:30						1		
9:30-9:45						4		
9:45-10:00						3		
HOURLY TOTAL						HOURLY TOTAL		9
10:00-10:15						1		
10:15-10:30						3		
10:30-10:45						5		
10:45-11:00						2		
HOURLY TOTAL						HOURLY TOTAL		11
11:00-11:15								
11:15-11:30						1		
11:30-11:45						1		
11:45-12:00						2		
HOURLY TOTAL						HOURLY TOTAL		4
12:00-12:15						5		1
12:15-12:30						3		
12:30-12:45								1
12:45-1:00						1		
HOURLY TOTAL						HOURLY TOTAL		11
1:00-1:15						5		
1:15-1:30						2		
1:30-1:45						3		
1:45-2:00						4		
HOURLY TOTAL						HOURLY TOTAL		14

COUNT LOCATION: 7th Ave. @
CSAH 58

DATE: 6/12/00

← NORTH
APP. #1 = SB 7th Ave.
APP. #2 = WB CSAH 58 (Valley Drive NW)
APP. #3 = NB 7th Ave.
APP. #4 = EB 159th Ave. NW



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.

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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						9		
2:30-2:45						3		
2:45-3:00						2		
HOURLY TOTAL						HOURLY TOTAL		21
3:00-3:15						1		
3:15-3:30						7		
3:30-3:45						9		
3:45-4:00						6		
HOURLY TOTAL						HOURLY TOTAL		23
4:00-4:15						6		
4:15-4:30						6		
4:30-4:45						2		
4:45-5:00						2		
HOURLY TOTAL						HOURLY TOTAL		16
5:00-5:15						1		
5:15-5:30						4		
5:30-5:45						1		
5:45-6:00						1		
HOURLY TOTAL						HOURLY TOTAL		7
6:00-6:15								
6:15-6:30								
6:30-6:45								
6:45-7:00						2		
HOURLY TOTAL						HOURLY TOTAL		2
7:00-7:15						1		
7:15-7:30						3		
7:30-7:45						1		
7:45-8:00								
HOURLY TOTAL						HOURLY TOTAL		5
8:00-8:15								
8:15-8:30						2		
8:30-8:45								
8:45-9:00								
HOURLY TOTAL						HOURLY TOTAL		2
9:00-9:15								
9:15-9:30						1		
9:30-9:45						2		
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		3