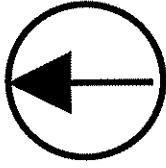


Date : 6/19/98AM 6/22/98PM

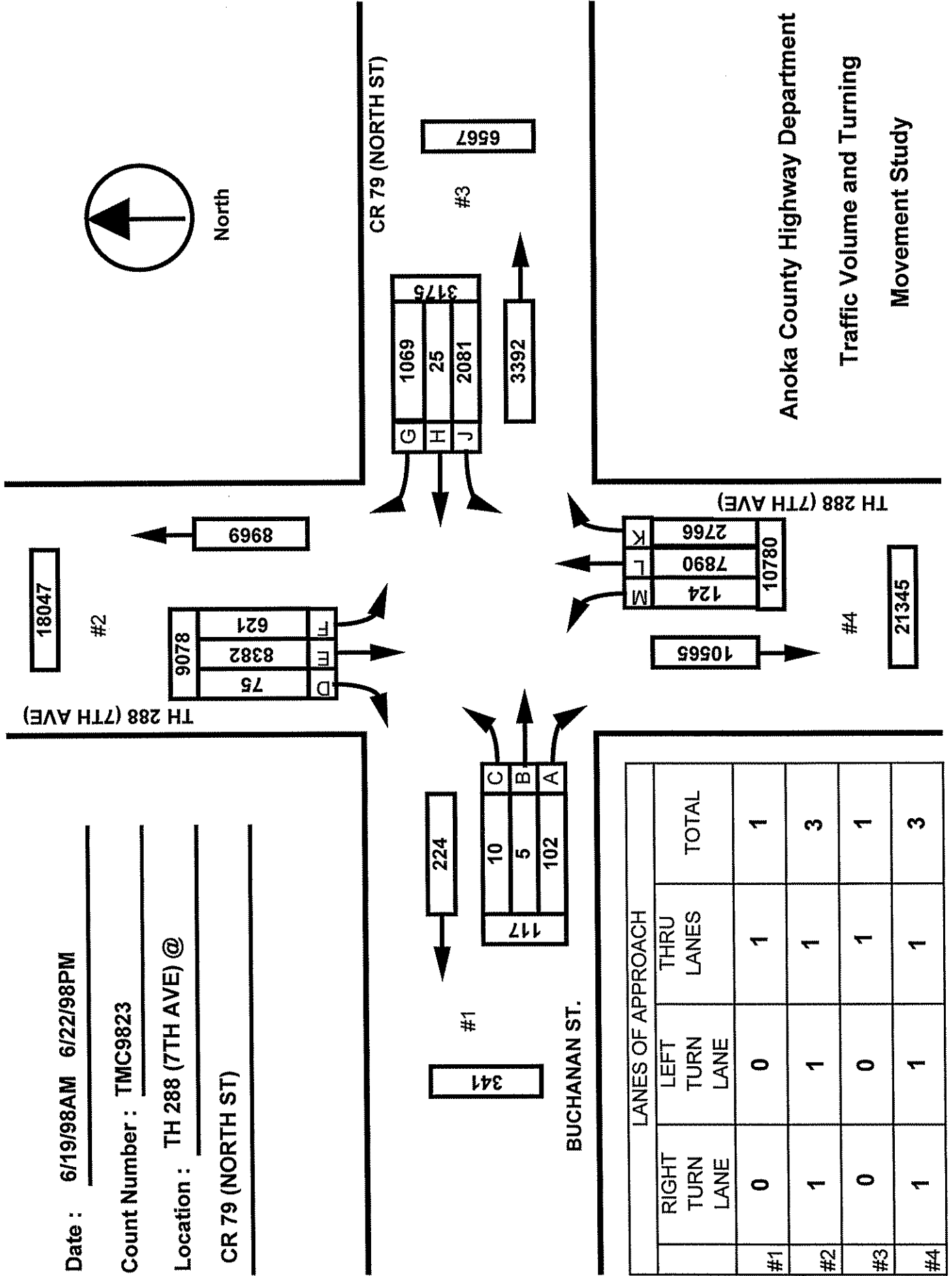
Count Number : TMC9823

Location : TH 288 (7TH AVE) @

CR 79 (NORTH ST)



North



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

Anoka County Highway Department  
 Traffic Volume and Turning  
 Movement Study

Weather :  
 Counted by: Sarah and Vallie  
 Road # :  
 ther :

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 Horsham, PA.

Study Name: TMC9823  
 Site Code : 98230202  
 Start Date: 06/19/98  
 Page : 1

Vehicle group 1

Start Time	TH 288 (7TH AVE) Southbound				CR 79 (NORTH ST) Westbound				TH 288 (7TH AVE) Northbound				BUCHANAN ST. Eastbound				Intvl	Exclu	Inclu	
	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other				Total
06/19/98																				
06:00	7	213	6	4	7	0	3	2	0	44	17	3	0	0	0	0	0	306	9	297
06:15	6	269	0	5	10	0	1	0	3	62	31	5	0	0	1	0	0	393	10	383
06:30	12	291	3	7	12	0	7	2	1	69	28	3	0	0	1	0	0	436	12	424
06:45	3	243	0	7	9	0	2	2	5	69	16	10	0	0	0	0	0	366	19	347
Hour	28	1016	9	23	38	0	13	6	9	244	92	21	0	0	2	0	0	1501	50	1451
07:00	4	238	0	8	15	0	6	3	0	65	16	9	0	0	2	0	0	366	20	346
07:15	7	223	1	8	20	0	7	4	1	56	22	5	0	0	3	0	0	357	17	340
07:30	14	223	1	6	17	0	6	2	1	81	36	6	0	0	1	0	0	394	14	380
07:45	9	222	0	5	23	0	6	3	2	82	25	9	2	0	1	0	0	389	17	372
Hour	34	906	2	27	75	0	25	12	4	284	99	29	2	0	7	0	0	1506	68	1438
08:00	2	153	9	11	22	0	7	4	5	62	32	15	0	0	8	4	0	334	34	300
08:15	6	167	2	5	20	1	9	2	1	72	34	8	0	0	2	0	0	329	15	314
08:30	6	123	1	7	29	1	5	4	3	65	36	9	0	0	1	1	0	291	21	270
08:45	15	154	0	11	26	0	5	4	3	66	32	11	0	0	2	1	0	330	27	303
Hour	29	597	12	34	97	2	26	14	12	265	134	43	0	0	13	6	0	1284	97	1187
09:00	13	117	0	6	16	0	4	6	2	75	41	7	0	0	3	0	0	290	19	271
09:15	15	140	0	6	22	0	6	1	1	67	45	14	0	0	4	1	0	322	22	300
09:30	11	141	1	5	32	0	11	6	3	91	39	17	0	0	1	0	0	358	28	330
09:45	6	122	0	5	37	0	13	7	2	73	38	14	0	0	3	2	0	322	28	294
Hour	45	520	1	22	107	0	34	20	8	306	163	52	0	0	11	3	0	1292	97	1195
10:00	15	118	3	9	29	1	16	8	0	65	35	7	0	0	1	0	0	307	24	283
10:15	9	120	0	5	26	0	13	4	1	86	32	6	0	0	0	0	0	302	15	287
10:30	13	123	2	4	31	0	9	6	4	72	52	20	1	0	2	0	0	339	30	309
10:45	2	102	1	8	37	1	16	4	1	84	56	14	0	0	1	0	0	327	26	301
Hour	39	463	6	26	123	2	54	22	6	307	175	47	1	0	4	0	0	1275	95	1180
11:00	8	108	12	6	30	0	19	4	6	103	42	8	0	0	3	0	0	349	18	331
11:15	13	98	1	4	38	1	18	5	2	85	42	5	0	0	3	1	0	316	15	301
11:30	10	82	0	7	35	0	17	2	2	95	41	9	0	1	1	0	0	302	18	284
11:45	13	101	0	2	42	1	17	8	3	116	80	8	0	0	3	0	0	394	18	376
Hour	44	389	13	19	145	2	71	19	13	399	205	30	0	1	10	1	0	1361	69	1292
12:00	15	130	1	7	54	1	26	3	2	120	49	8	1	0	2	1	0	420	19	401
12:15	16	116	1	4	46	0	20	4	3	115	55	7	0	0	0	0	0	387	15	372
12:30	7	122	0	6	55	0	19	7	5	115	57	8	0	1	3	0	0	405	21	384
12:45	8	108	1	3	54	0	28	7	3	102	68	13	1	0	3	0	0	399	23	376
Hour	46	476	3	20	209	1	93	21	13	452	229	36	2	1	8	1	0	1611	78	1533

Weather :  
 Counted by: Sarah and Vallie  
 Board # :  
 ther :

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 Horsham, PA.

Study Name: TMC9823  
 Site Code : 98230202  
 Start Date: 06/19/98  
 Page : 2

Vehicle group 1

Start Time	TH 288 (7TH AVE) Southbound				CR 79 (NORTH ST) Westbound				TH 288 (7TH AVE) Northbound				BUCHANAN ST. Eastbound				Intvl	Exclu	Inclu
	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other			
13:00	16	140	2	5	41	0	17	2	1	103	57	9	0	1	1	1	396	17	379
13:15	9	135	3	7	48	0	19	3	4	103	53	6	0	0	2	0	392	16	376
13:30	10	115	1	6	44	3	26	6	4	112	67	12	0	0	2	1	409	25	384
13:45	8	113	2	7	60	0	30	4	2	144	38	6	0	0	2	1	417	18	399
Hour	43	503	8	25	193	3	92	15	11	462	215	33	0	1	7	3	1614	76	1538
14:00	6	116	1	7	34	0	12	2	1	101	44	16	0	0	4	3	347	28	319
14:15	7	140	2	5	35	1	7	4	2	95	46	11	0	0	1	0	356	20	336
14:30	11	131	0	7	28	0	18	2	2	129	56	10	0	1	3	1	399	20	379
14:45	8	108	1	6	55	2	33	5	3	136	57	4	0	0	5	0	423	15	408
Hour	32	495	4	25	152	3	70	13	8	461	203	41	0	1	13	4	1525	83	1442
15:00	9	126	1	6	28	0	15	1	1	203	74	7	0	0	2	0	473	14	459
15:15	7	95	0	5	37	0	23	3	3	181	60	9	0	0	0	0	423	17	406
15:30	13	163	2	10	39	0	13	1	3	192	54	8	1	0	1	0	500	19	481
15:45	8	129	0	8	29	0	31	6	1	215	65	8	0	0	1	0	501	22	479
Hour	37	513	3	29	133	0	82	11	8	791	253	32	1	0	4	0	1897	72	1825
16:00	14	126	0	6	32	0	21	2	3	263	47	10	0	0	1	0	525	18	507
16:15	13	126	2	6	35	0	20	0	1	219	53	8	0	0	1	0	484	14	470
16:30	12	125	0	3	30	0	38	1	1	257	57	11	0	0	1	0	536	15	521
16:45	12	138	1	7	30	1	28	3	1	240	63	8	0	0	1	0	533	18	515
Hour	51	515	3	22	127	1	107	6	6	979	220	37	0	0	4	0	2078	65	2013
17:00	8	124	1	4	37	2	28	2	2	261	51	6	0	0	1	0	527	12	515
17:15	14	124	0	3	43	1	26	0	1	236	44	5	0	0	1	0	498	8	490
17:30	15	128	1	7	30	0	23	0	1	271	59	8	0	0	1	0	544	15	529
17:45	25	141	2	10	34	1	23	0	1	246	50	7	1	0	1	0	542	17	525
Hour	62	517	4	24	144	4	100	2	5	1014	204	26	1	0	4	0	2111	52	2059
18:00	9	117	1	5	37	1	18	2	3	178	43	6	1	0	3	2	426	15	411
18:15	8	114	1	3	30	2	24	1	2	153	49	5	0	0	2	0	394	9	385
18:30	12	123	0	3	25	0	22	2	2	158	48	10	0	0	1	1	407	16	391
18:45	13	116	0	7	23	0	22	1	0	160	43	5	0	0	0	0	390	13	377
Hour	42	470	2	18	115	3	86	6	7	649	183	26	1	0	6	3	1617	53	1564
19:00	9	104	2	5	36	0	21	0	1	128	54	6	0	0	4	1	371	12	359
19:15	2	103	0	6	35	0	23	1	2	122	39	5	2	0	0	0	340	12	328
19:30	11	77	2	5	40	0	20	0	0	101	33	0	0	0	2	1	292	6	286
19:45	8	69	0	2	30	0	22	0	2	112	36	3	0	0	1	0	285	5	280
Hour	30	353	4	18	141	0	86	1	5	463	162	14	2	0	7	2	1288	35	1253

Weather :  
 Counted by: Sarah and Vallie  
 Board # :  
 her :

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Study Name: TMC9823  
 Site Code : 98230202  
 Start Date: 06/19/98  
 Page : 3

Vehicle group 1

Start Time	TH 288 (7TH AVE) Southbound				CR 79 (NORTH ST) Westbound				TH 288 (7TH AVE) Northbound				BUCHANAN ST. Eastbound				Intvl	Exclu	Inclu
	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other			
20:00	11	98	0	1	36	1	21	1	2	107	26	1	0	1	2	0	308	3	305
20:15	6	75	0	2	48	0	20	1	0	79	31	2	0	0	0	0	264	5	259
20:30	10	84	0	2	33	1	17	0	1	117	37	3	0	0	0	0	305	5	300
20:45	10	114	0	0	33	0	12	0	3	123	30	1	0	0	0	0	326	1	325
Hour	37	371	0	5	150	2	70	2	6	426	124	7	0	1	2	0	1203	14	1189
21:00	5	95	0	3	34	0	17	1	1	108	20	1	0	0	0	0	285	5	280
21:15	6	74	0	0	38	1	13	0	0	98	29	4	0	0	0	0	263	4	259
21:30	5	58	0	2	26	0	13	0	2	102	30	1	0	0	0	0	239	3	236
21:45	6	51	1	1	34	1	17	0	0	80	26	1	0	0	0	0	218	2	216
Hour	22	278	1	6	132	2	60	1	3	388	105	7	0	0	0	0	1005	14	991
Total	621	8382	75	343	2081	25	1069	171	124	7890	2766	481	10	5	102	23	24168	1018	23150
% Apr.	6.5	88.9	0.7	3.6	62.1	0.7	31.9	5.1	1.1	70.0	24.5	4.2	7.1	3.5	72.8	16.4	-	-	-
% Int.	2.5	34.6	0.3	1.4	8.6	0.1	4.4	0.7	0.5	32.6	11.4	1.9	-	-	0.4	-	-	-	-

Major Street Approaches:

Northbound:

TH 288 (7TH AVE)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9823.PDF  
 Count Type: IMC. Channel: 0. Count Date: 6/19/98  
 Number of Lanes: 2  
 Approach Speed: 35  
 Total Approach Traffic: 10780

Southbound:

TH 288 (7TH AVE)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9823.PDF  
 Count Type: IMC. Channel: 0. Count Date: 6/19/98  
 Number of Lanes: 2  
 Approach Speed: 35  
 Total Approach Traffic: 9078

Minor Street Approaches:

Eastbound:

BUCHANAN ST.

Data File: C:\APPS\PETRA2\DATAFILE\TMC9823.PDF  
 Count Type: IMC. Channel: 0. Count Date: 6/19/98  
 Number of Lanes: 1  
 Approach Speed: 0  
 Total Approach Traffic: 117

Westbound:

CR 79 (NORTH ST)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9823.PDF  
 Count Type: IMC. Channel: 0. Count Date: 6/19/98  
 Number of Lanes: 1  
 Approach Speed: 30  
 Total Approach Traffic: 3175

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

Hour	Main	Side	Warrant 1	Warrant 2	Warrant 8
Begin	(Total)	Vol. Dir. Rank	Meets? Criteria	Meets? Criteria	Meets? Criteria
0	0	0 W 17	150	75	120
1	0	0 W 18	150	75	120
2	0	0 W 19	150	75	120
3	0	0 W 20	150	75	120
4	0	0 W 21	150	75	120
5	0	0 W 22	150	75	120
6	1398	51 W 16	MAIN 150	MAIN 75	MAIN 120
7	1329	100 W 15	MAIN 150	--BOTH-- 75	MAIN 120
8	1049	125 W 14	MAIN 150	--BOTH-- 75	--BOTH-- 120
9	1043	141 W 13	MAIN 150	--BOTH-- 75	--BOTH-- 120
10	996	179 W 12	--BOTH-- 150	--BOTH-- 75	--BOTH-- 120
11	1063	218 W 8	--BOTH-- 150	--BOTH-- 75	--BOTH-- 120
12	1219	303 W 1	--BOTH-- 150	--BOTH-- 75	--BOTH-- 120
13	1242	288 W 2	--BOTH-- 150	--BOTH-- 75	--BOTH-- 120
14	1203	225 W 6	--BOTH-- 150	--BOTH-- 75	--BOTH-- 120
15	1605	215 W 9	--BOTH-- 150	--BOTH-- 75	--BOTH-- 120
16	1774	235 W 4	--BOTH-- 150	--BOTH-- 75	--BOTH-- 120
17	1806	248 W 3	--BOTH-- 150	--BOTH-- 75	--BOTH-- 120
18	1353	204 W 10	--BOTH-- 150	--BOTH-- 75	--BOTH-- 120
19	1017	227 W 5	--BOTH-- 150	--BOTH-- 75	--BOTH-- 120
20	964	222 W 7	--BOTH-- 150	--BOTH-- 75	--BOTH-- 120
21	797	194 W 11	--BOTH-- 150	SIDE 75	--BOTH-- 120
22	0	0 W 23	150	75	120
23	0	0 W 24	150	75	120

## Warrant Summary:

Urban values apply.

## Warrant 1 - Minimum Vehicular Volumes

SATISFIED for 12 hours. Criteria--Main St.: 600; Side St.: See Volume Summary.

## Warrant 2 - Interruption of Continuous Traffic

SATISFIED for 14 hours. Criteria--Main St.: 900; Side St.: See Volume Summary.

## Warrant 3 - Minimum Pedestrian Volumes

NOT SATISFIED. Ped volumes too low. Criteria--190 Peds in peak hour, 100 peds in 4th high hour.

## 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: 2059.

- Approaches which are part of the principal through traffic roadway network.
- Approaches which include rural or suburban highways outside, entering or traversing a city.
- Approaches which appear as a major route in an official transportation plan.

## Warrant 8 - Combination of Warrants

SATISFIED for 14 hours. Criteria--Main: 720; Side: See Volume Summary.

## Warrant 9 - Four Hour Volumes

SATISFIED for 14 hours.

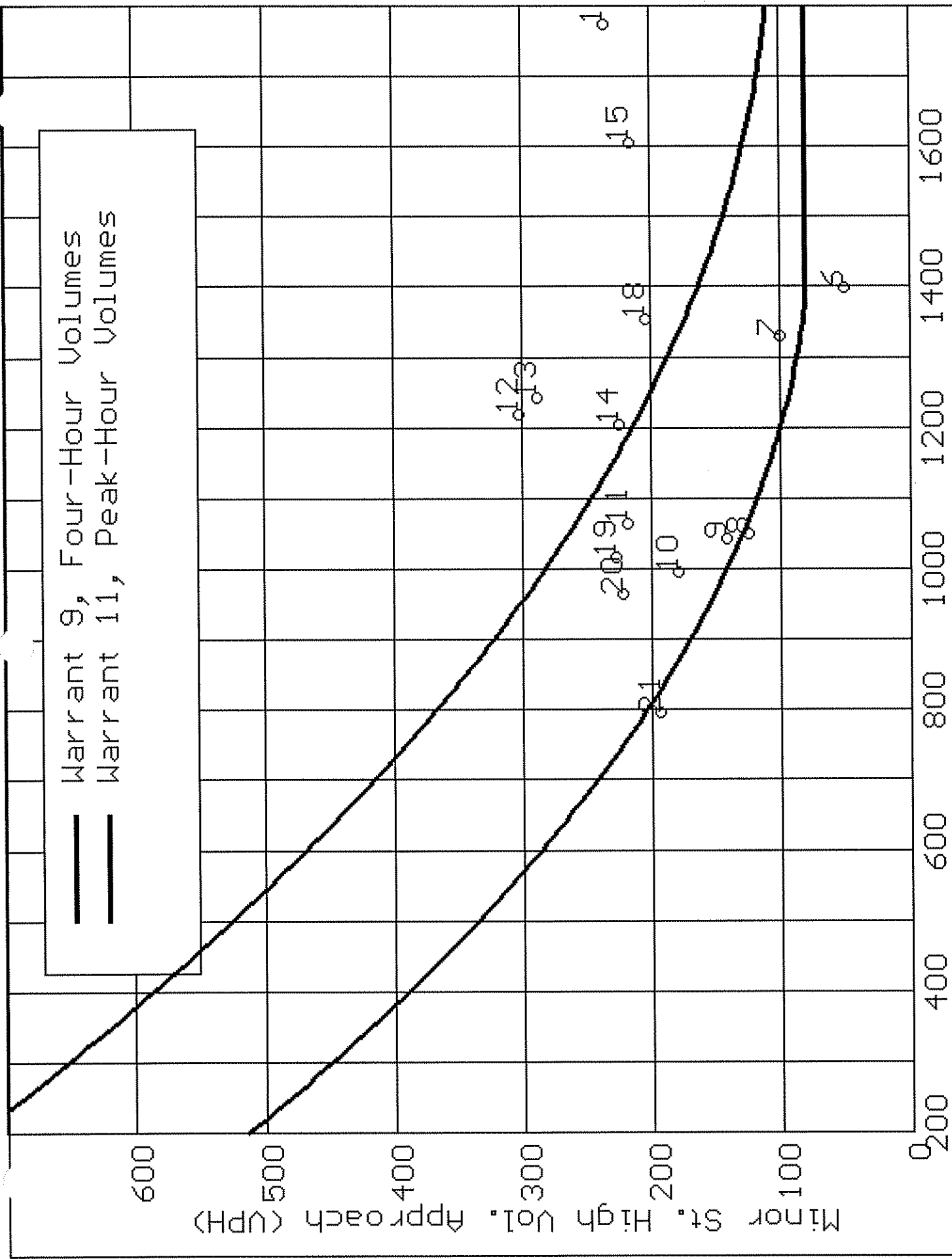
## Warrant 10 - Peak Hour Delay

NOT APPLICABLE. Volume requirements satisfied, but side street peak hour delay not defined.

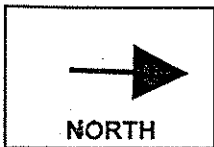
Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 100.

## Warrant 11 - Peak Hour Volume

SATISFIED for 7 hours.



Major St. Total of Both Approaches (VPH)



COUNT LOCATION:

TH 288 (7TH AVE) @  
CR 79 (NORTH ST)

DATE:

6/19/98

APP. #1= SB TH 288 (7TH AVE)
APP. #2 = WB CR 79 (NORTH ST)
APP. #3= NB TH 288 (7TH AVE)
APP. #4= EB CR 79 (NORTH ST)

APP. #1	APP. #2	APP. #3	APP. #4
---------	---------	---------	---------

- 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	1	2
6:15-6:30						5	2	3
6:30-6:45		1				9		3
6:45-7:00		1				15		3
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>49</b>
7:00-7:15						15	1	4
7:15-7:30		1			1	14	3	
7:30-7:45				1	1	10		2
7:45-8:00		1		1	2	10	3	2
<b>HOURLY TOTAL</b>					<b>4</b>	<b>HOURLY TOTAL</b>		<b>64</b>
8:00-8:15						24	6	3
8:15-8:30		1			1	13		
8:30-8:45		1	1		2	19		2
8:45-9:00						24	2	
<b>HOURLY TOTAL</b>					<b>3</b>	<b>HOURLY TOTAL</b>		<b>93</b>
9:00-9:15						17	1	2
9:15-9:30				1	1	18	2	
9:30-9:45		1			1	19	2	4
9:45-10:00						23	3	2
<b>HOURLY TOTAL</b>					<b>2</b>	<b>HOURLY TOTAL</b>		<b>93</b>
10:00-10:15						22	1	2
10:15-10:30		1	3		4	11	2	
10:30-10:45				4	4	28	1	1
10:45-11:00						15	1	
<b>HOURLY TOTAL</b>					<b>8</b>	<b>HOURLY TOTAL</b>		<b>84</b>
11:00-11:15						22	4	
11:15-11:30	2			2	4	13	2	
11:30-11:45						21	2	
11:45-12:00		1			1	11	2	
<b>HOURLY TOTAL</b>					<b>5</b>	<b>HOURLY TOTAL</b>		<b>77</b>
12:00-12:15		1				17		1
12:15-12:30						12	4	
12:30-12:45						21		1
12:45-1:00		1		2		19	3	
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>78</b>
1:00-1:15		3		3	6	12	3	1
1:15-1:30						15	1	
1:30-1:45				1	1	20	2	1
1:45-2:00						13	7	
<b>HOURLY TOTAL</b>					<b>7</b>	<b>HOURLY TOTAL</b>		<b>75</b>





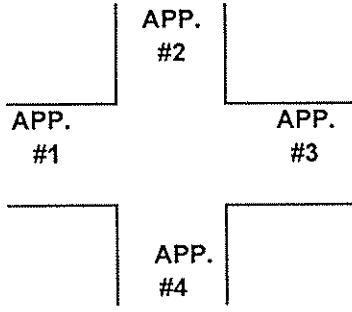
COUNT LOCATION:

TH 288 (7TH AVE) @  
CR 79 (NORTH ST)

DATE:

6/22/98

APP. #1= SB TH 288 (7TH AVE)
APP. #2 = WB CR 79 (NORTH ST)
APP. #3= NB TH 288 (7TH AVE)
APP. #4= EB CR 79 (NORTH ST)



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	1	1		1	3	23	3	1
2:15-2:30		1			1	16		1
2:30-2:45		3			3	17	2	
2:45-3:00						15	1	
<b>HOURLY TOTAL</b>					<b>7</b>	<b>HOURLY TOTAL</b>		<b>79</b>
3:00-3:15		3		3	6	15	2	
3:15-3:30		4			4	11	2	1
3:30-3:45						13	2	5
3:45-4:00		1			1	14	3	1
<b>HOURLY TOTAL</b>					<b>11</b>	<b>HOURLY TOTAL</b>		<b>69</b>
4:00-4:15				2	2	14	3	
4:15-4:30						8	2	3
4:30-4:45		4		2	6	12	2	
4:45-5:00		2		6	8	12	1	5
<b>HOURLY TOTAL</b>					<b>16</b>	<b>HOURLY TOTAL</b>		<b>62</b>
5:00-5:15		2		1		10	2	
5:15-5:30		2				5	2	1
5:30-5:45		3		1		11	2	2
5:45-6:00						12	3	1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>51</b>
6:00-6:15				2		11	2	2
6:15-6:30						7	1	1
6:30-6:45				2		10	4	1
6:45-7:00		1				6	5	1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>51</b>
7:00-7:15				6		9	2	2
7:15-7:30		3		3		11	1	
7:30-7:45						5	1	
7:45-8:00		2		2		5		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>36</b>
8:00-8:15		4		1		3		
8:15-8:30		1		1		2	2	1
8:30-8:45						1	2	
8:45-9:00			4	5				
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>11</b>
9:00-9:15				4		2		2
9:15-9:30						5		
9:30-9:45		1				1	1	
9:45-10:00							1	
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>12</b>