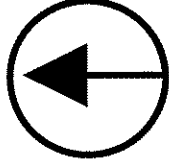


Date : 10/24/97 6-8AM 10/27/97 4-6PM

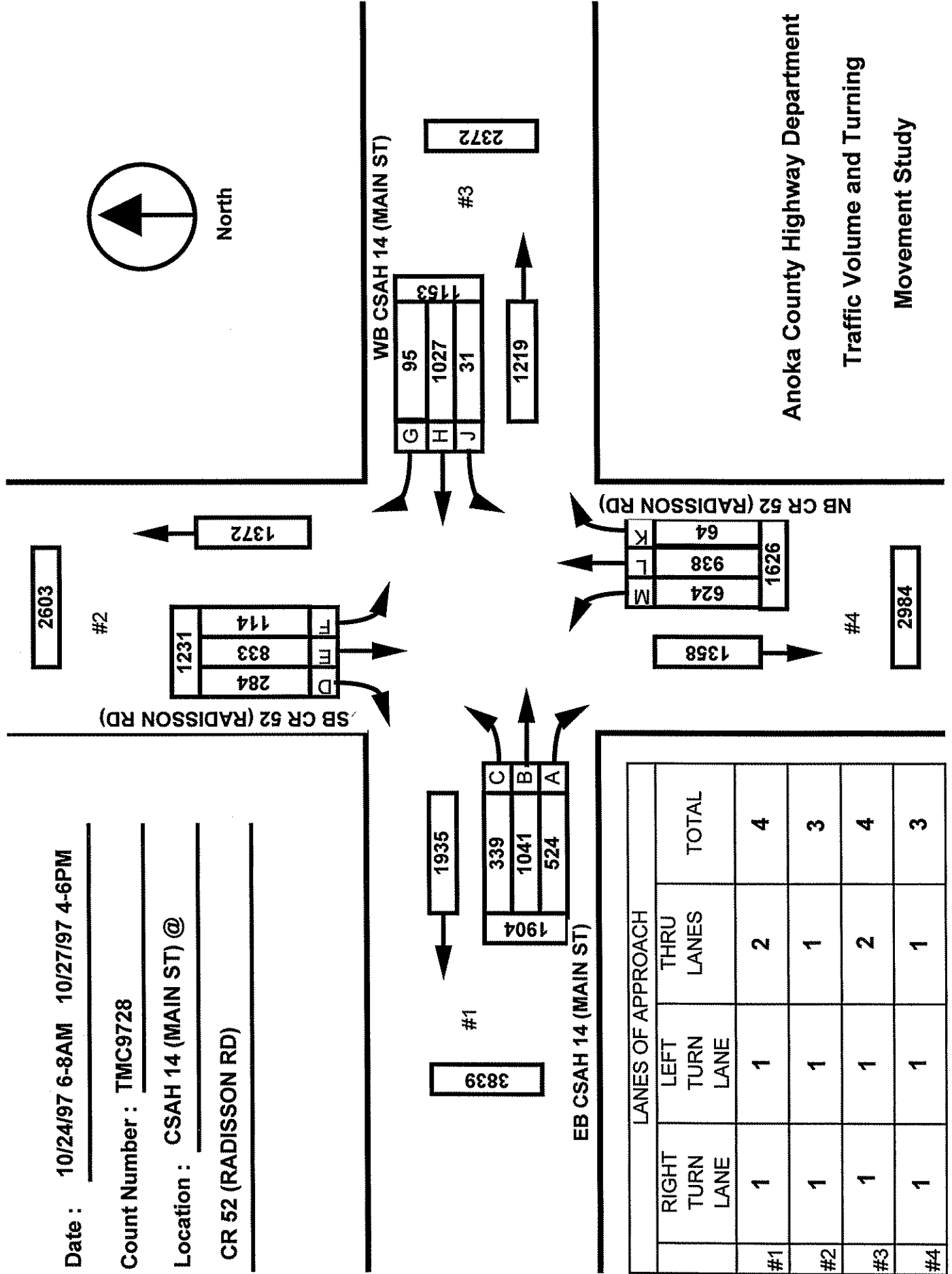
Count Number : TMC9728

Location : CSAH 14 (MAIN ST) @

CR 52 (RADISSON RD)



North



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

Anoka County Highway Department  
 Traffic Volume and Turning  
 Movement Study

Weather :  
 Counted by: RANDY  
 Board # :  
 Cher :

PETRA Software  
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 Jamar Technologies, Inc.  
 Horsham, PA.

Study Name: TMC9728  
 Site Code : 97280201  
 Start Date: 10/27/97  
 Page : 1

Vehicle group 1

Start Time	CR 52 (RADISSON RD) Southbound				CSAH 14 (MAIN ST) Westbound				CR 52 (RADISSON RD) Northbound				CSAH 14 (MAIN ST) Eastbound				Intvl	Exclu	Inclu
	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other			
10/27/97																			
06:00	3	94	7	0	2	23	0	4	6	2	1	0	2	29	44	1	218	5	213
06:15	8	113	9	1	3	33	1	2	3	4	1	1	3	55	52	6	295	10	285
06:30	17	96	13	1	2	50	3	1	10	8	0	3	2	78	40	1	325	6	319
06:45	10	105	22	1	2	46	5	5	13	6	0	2	4	68	46	8	343	16	327
Hour	38	408	51	3	9	152	9	12	32	20	2	6	11	230	182	16	1181	37	1144
07:00	17	89	46	4	2	56	3	7	15	12	1	2	7	57	38	0	356	13	343
07:15	13	83	22	0	3	51	1	3	18	6	6	2	5	75	40	8	336	13	323
07:30	18	65	18	2	2	68	0	3	13	5	3	3	5	85	49	6	345	14	331
07:45	8	69	24	3	2	53	2	2	13	11	0	4	10	70	49	5	325	14	311
Hour	56	306	110	9	9	228	6	15	59	34	10	11	27	287	176	19	1362	54	1308
[BREAK	-----																		
16:00	5	12	9	4	4	80	11	4	55	87	9	3	32	68	13	7	403	18	385
16:15	2	14	13	3	1	84	12	4	69	115	7	4	27	66	18	2	441	13	428
16:30	1	18	13	1	1	82	13	5	75	123	3	7	37	55	18	7	459	20	439
16:45	2	18	15	0	0	80	7	8	77	127	10	8	40	64	17	2	475	18	457
Hour	10	62	50	8	6	326	43	21	276	452	29	22	136	253	66	18	1778	69	1709
17:00	2	14	20	2	2	86	9	2	65	107	7	4	43	57	23	3	446	11	435
17:15	6	19	9	3	1	97	6	6	66	121	5	5	34	64	29	7	478	21	457
17:30	1	14	25	2	2	87	9	2	75	119	6	3	48	80	26	6	505	13	492
17:45	1	10	19	0	2	51	13	3	51	85	5	3	40	70	22	6	381	12	369
Hour	10	57	73	7	7	321	37	13	257	432	23	15	165	271	100	22	1810	57	1753
Total	114	833	284	27	31	1027	95	61	624	938	64	54	339	1041	524	75	6131	217	5914
% Apr.	9.0	66.2	22.5	2.1	2.5	84.5	7.8	5.0	37.1	55.8	3.8	3.2	17.1	52.6	26.4	3.7	-	-	-
% Int.	1.8	13.5	4.6	0.4	0.5	16.7	1.5	0.9	10.1	15.2	1.0	0.8	5.5	16.9	8.5	1.2	-	-	-

Major Street Approaches:

Eastbound:

CSAH 14 (MAIN ST)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9728.PDF  
 Count Type: IMC. Channel: 0. Count Date: 10/27/97  
 Number of Lanes: 2  
 Approach Speed: 55  
 Total Approach Traffic: 1904

Westbound:

CSAH 14 (MAIN ST)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9728.PDF  
 Count Type: IMC. Channel: 0. Count Date: 10/27/97  
 Number of Lanes: 2  
 Approach Speed: 55  
 Total Approach Traffic: 1153

Minor Street Approaches:

Northbound:

CR 52 (RADISSON RD)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9728.PDF  
 Count Type: IMC. Channel: 0. Count Date: 10/27/97  
 Number of Lanes: 2  
 Approach Speed: 45  
 Total Approach Traffic: 1626

Southbound:

CR 52 (RADISSON RD)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9728.PDF  
 Count Type: IMC. Channel: 0. Count Date: 10/27/97  
 Number of Lanes: 2  
 Approach Speed: 45  
 Total Approach Traffic: 1231

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 S 5	140	70	112
1	0	0 S 6	140	70	112
2	0	0 S 7	140	70	112
3	0	0 S 8	140	70	112
4	0	0 S 9	140	70	112
5	0	0 S 10	140	70	112
6	593	497 S 3	--BOTH-- 140	SIDE 70	--BOTH-- 112
7	733	472 S 4	--BOTH-- 140	--BOTH-- 70	--BOTH-- 112
8	0	0 S 11	140	70	112
9	0	0 S 12	140	70	112
10	0	0 S 13	140	70	112
11	0	0 S 14	140	70	112
12	0	0 S 15	140	70	112
13	0	0 S 16	140	70	112
14	0	0 S 17	140	70	112
15	0	0 S 18	140	70	112
16	830	757 N 1	--BOTH-- 140	--BOTH-- 70	--BOTH-- 112
17	901	712 N 2	--BOTH-- 140	--BOTH-- 70	--BOTH-- 112
18	0	0 S 19	140	70	112
19	0	0 S 20	140	70	112
20	0	0 S 21	140	70	112
21	0	0 S 22	140	70	112
22	0	0 S 23	140	70	112
23	0	0 S 24	140	70	112

## Warrant Summary:

Rural values apply.

## Warrant 1 - Minimum Vehicular Volumes

NOT SATISFIED. Required values reached for 4 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. 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: 1753.

- 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

NOT SATISFIED. Required values reached for 4 hours. Criteria--Main: 504; Side: See Volume Summary.

## Warrant 9 - Four Hour Volumes

SATISFIED for 4 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.: 150.

## Warrant 11 - Peak Hour Volume

SATISFIED for 4 hours.

Minor St. High Vol. Approach (UPH)

Warrant 9, Four-Hour Volumes  
Warrant 11, Peak-Hour Volumes

200 400 600 800 1000 1200 1400 1600

Major St. Total of Both Approaches (UPH)

6  
7



**COUNT LOCATION:**

CSAH 14 (MAIN ST) @  
CR 52 (RADISSON RD)

**DATE:**

10/24/97

APP. #1=EB CSAH 14  
(MAIN ST)  
APP. #2 =SB CR 52  
(RADISSON RD)  
APP. #3=WB CSAH 14  
(MAIN ST)  
APP. #4=NB CR 52  
(RADDISON RD)

APP. #2  
APP. #1      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						4		1
6:15-6:30						5	1	3
6:30-6:45						5		1
6:45-7:00						10		5
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>35</b>
7:00-7:15						10		3
7:15-7:30						12		1
7:30-7:45						9		5
7:45-8:00						12		2
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>54</b>
8:00-8:15								
8:15-8:30								
8:30-8:45								
8:45-9:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
10:00-10:15								
10:15-10:30								
10:30-10:45								
10:45-11:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
11:00-11:15								
11:15-11:30								
11:30-11:45								
11:45-12:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
12:00-12:15								
12:15-12:30								
12:30-12:45								
12:45-1:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
1:00-1:15								
1:15-1:30								
1:30-1:45								
1:45-2:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		



**NORTH**

**COUNT LOCATION:**

CSAH 14 (MAIN ST) @  
CR 52 (RADISSON RD)

**DATE:**

10/27/97

APP. #1=EB CSAH 14  
(MAIN ST)

APP. #2 =SB CR 52  
(RADISSON RD)

APP. #3=WB CSAH 14  
(MAIN ST)

APP. #4=NB CR 52  
(RADDISON RD)

APP.  
#2

APP.  
#1

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
2:00-2:15PM								
2:15-2:30								
2:30-2:45								
2:45-3:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
3:00-3:15								
3:15-3:30								
3:30-3:45								
3:45-4:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
4:00-4:15						17		2
4:15-4:30						11		3
4:30-4:45						17		2
4:45-5:00						18		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>70</b>
5:00-5:15						10		1
5:15-5:30						19	1	1
5:30-5:45						13		1
5:45-6:00						7		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>53</b>
6:00-6:15								
6:15-6:30								
6:30-6:45								
6:45-7:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
7:00-7:15								
7:15-7:30								
7:30-7:45								
7:45-8:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
8:00-8:15								
8:15-8:30								
8:30-8:45								
8:45-9:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		