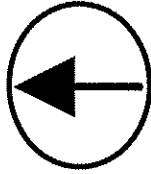


Date : 8/24/95AM 8/22/95PM

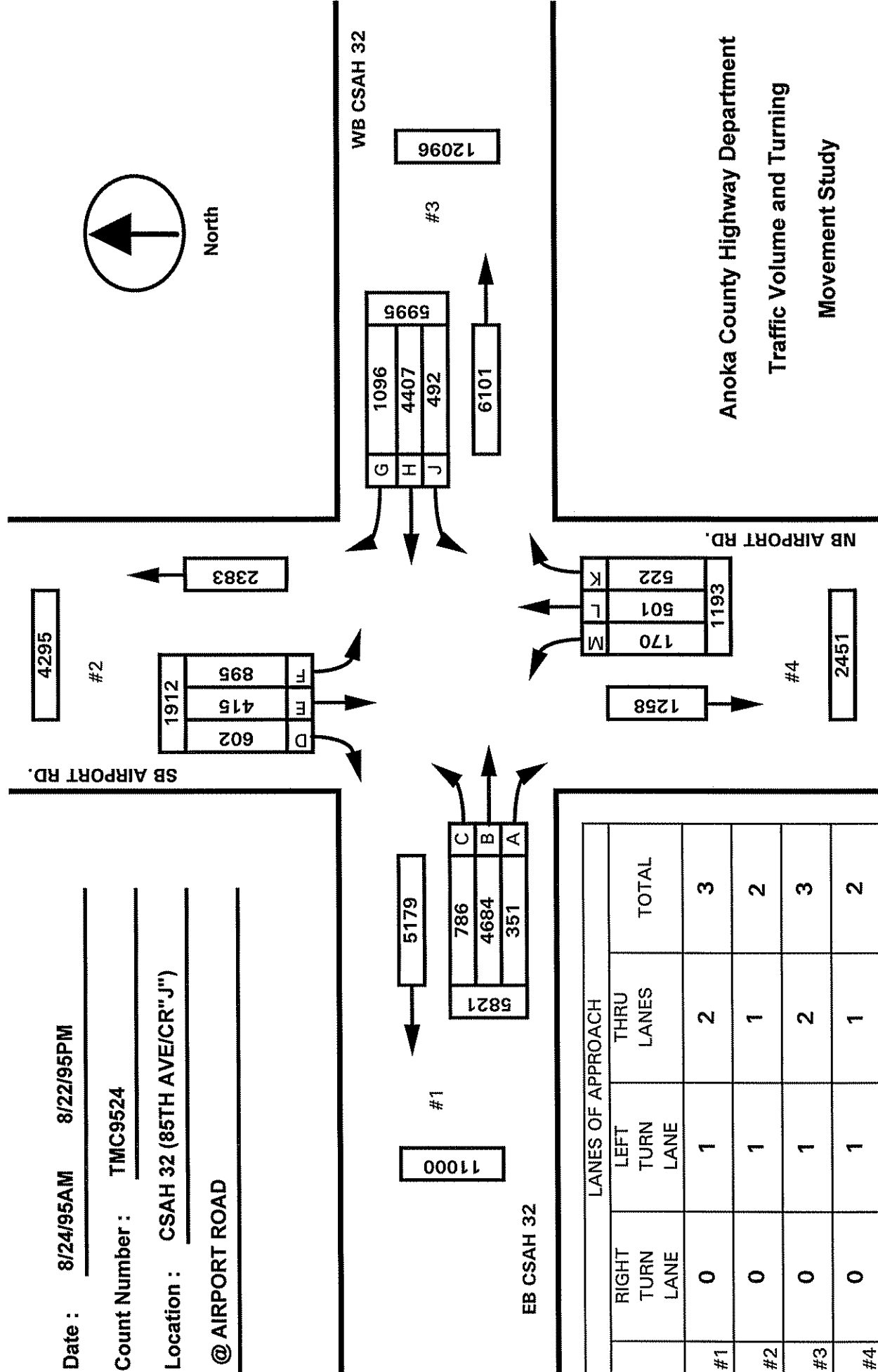
Count Number : TMC9524

Location : CSAH 32 (85TH AVE/CR"J")

@ AIRPORT ROAD



North



Anoka County Highway Department
Traffic Volume and Turning
Movement Study

4295

#2

1912			
602	D		
415	FT		
895	T		

2383

12096			
1096	G		
4407	H		
492	J		
5995			

#3

6101

170	M		
501	L		
522	K		
1193			

#4

1258

2451

5179

#1

11000

5821			
786	C		
4684	B		
351	A		

EB CSAH 32

WB CSAH 32

SB AIRPORT RD.

NB AIRPORT RD.

ANOKA COUNTY HIGHWAY DEPARTMENT

TRAFFIC ENGINEERING SECTION

TRAFFIC VOLUME AND TURNING MOVEMENT STUDY

Vehicle group 1

Site : 95240101
 Start Date: 08/24/95
 File I.D. : TMC9524
 Page : 1

Counter : TDC EIGHT
 Counted by LAURIE AND ANN
 AM:RAIN PM:CLEAR

Date	AIRPORT ROAD Southbound				AIRPORT ROAD Northbound				CSAH 32 (CR "J"/85TH AVE) Westbound				CSAH 32 (CR "J"/85TH AVE) Eastbound										
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Vehicle Total	Other Total	
06:00	0	0	2	14	2	10	46	1	0	3	7	0	2	1	13	7	2	1	13	7	104	4	4
06:15	0	2	4	7	7	17	47	8	0	2	14	1	3	2	29	16	3	2	29	16	149	10	10
06:30	0	4	0	6	6	23	72	11	0	4	15	1	0	3	30	18	0	3	30	18	187	6	6
06:45	1	3	4	14	3	53	119	27	0	6	12	1	0	2	16	23	0	2	16	23	280	4	4
Hr Total	1	9	10	41	18	103	284	47	0	15	48	3	5	8	88	64	5	8	88	64	720	24	24
07:00	0	6	2	11	4	39	94	17	0	5	13	0	6	1	38	24	6	1	38	24	250	10	10
07:15	2	3	6	13	5	49	88	27	0	3	21	1	11	14	49	21	11	14	49	21	295	18	18
07:30	2	8	1	5	6	49	131	37	0	6	9	1	3	4	56	20	3	4	56	20	327	11	11
07:45	2	2	6	23	1	40	161	21	0	5	11	2	5	5	79	13	5	5	79	13	368	8	8
Hr Total	6	19	15	52	16	177	474	102	0	19	54	4	25	24	222	78	17	11	168	41	1240	47	47
08:00	5	6	3	17	5	34	108	20	2	5	15	4	6	4	63	12	6	4	63	12	291	18	18
08:15	1	4	2	14	9	19	87	3	0	4	12	0	3	1	43	10	3	1	43	10	199	13	13
08:30	0	3	4	11	5	12	53	9	1	5	7	3	2	2	20	11	2	2	20	11	140	8	8
08:45	3	3	2	13	6	11	66	5	2	5	8	2	6	4	42	8	6	4	42	8	169	17	17
Hr Total	9	16	11	55	25	76	314	37	5	19	42	9	17	11	168	41	17	11	168	41	799	56	56
09:00	4	5	4	22	7	7	68	5	2	6	5	1	3	2	31	13	3	2	31	13	169	16	16
09:15	1	7	5	6	6	13	41	2	0	3	10	1	6	1	39	10	6	1	39	10	138	13	13
09:30	5	4	1	12	9	8	60	5	0	4	8	3	8	2	38	7	8	2	38	7	152	22	22
09:45	3	11	2	11	9	14	60	9	0	1	4	3	5	2	44	8	5	2	44	8	169	17	17
Hr Total	13	27	12	51	31	42	229	21	2	14	27	8	22	7	152	38	22	7	152	38	628	68	68
10:00	0	5	7	6	5	11	56	5	1	2	1	2	7	5	37	14	7	5	37	14	151	13	13
10:15	2	7	5	10	7	9	63	3	2	6	7	6	6	6	46	16	6	6	46	16	184	17	17
10:30	7	5	6	6	10	12	57	7	0	5	5	2	3	5	33	16	3	5	33	16	159	20	20
10:45	3	6	4	14	6	13	71	5	2	4	4	2	7	5	58	10	7	5	58	10	196	18	18
Hr Total	12	23	22	36	28	45	247	20	5	17	17	12	23	21	174	56	23	21	174	56	690	68	68
11:00	2	9	7	14	3	7	44	3	1	7	5	2	5	3	43	9	5	3	43	9	153	11	11
11:15	0	8	5	10	7	7	60	0	0	5	3	4	9	1	60	8	9	1	60	8	171	16	16
11:30	0	6	1	13	10	15	72	5	0	4	1	1	4	7	48	5	4	7	48	5	178	14	14
11:45	2	13	10	15	2	13	77	4	0	5	5	2	10	7	55	10	10	7	55	10	216	14	14
Hr Total	4	36	23	52	22	42	253	12	1	21	14	9	28	18	206	32	28	18	206	32	718	55	55
12:00	6	21	7	18	7	15	86	4	1	7	3	6	3	3	60	17	3	3	60	17	247	17	17
12:15	1	6	10	10	6	8	74	7	0	6	5	2	5	8	59	13	5	8	59	13	208	12	12
12:30	2	8	9	11	8	21	75	3	1	4	8	2	2	4	70	10	2	4	70	10	225	13	13
12:45	3	13	1	17	8	9	86	3	1	4	6	5	6	7	81	13	1	7	81	13	245	18	18
Hr Total	12	48	27	56	29	53	321	17	3	21	22	15	16	22	270	53	16	22	270	53	925	60	60

Vehicle group 1

Date 08/24/95	AIRPORT ROAD Southbound				AIRPORT ROAD Northbound				CSAH 32 (CR "J"/85TH AVE) Westbound				CSAH 32 (CR "J"/85TH AVE) Eastbound				Vehicle Total	Other Total	
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left			Vehicle Total
13:00	4	7	3	12	6	15	64	2	3	3	2	1	7	4	77	19	209	20	
13:15	2	13	4	9	7	7	72	6	1	3	4	0	5	3	84	7	212	15	
13:30	3	10	5	16	5	10	67	7	1	5	7	2	3	7	65	15	216	12	
13:45	1	14	5	6	9	8	80	3	1	7	9	2	6	8	64	7	213	17	
Hr Total	10	44	17	43	27	40	283	18	6	18	22	5	21	22	290	48	850	64	
14:00	3	9	2	21	4	13	53	7	0	4	9	1	8	4	66	15	204	15	
14:15	2	13	4	15	4	14	56	10	1	8	2	4	5	7	63	12	208	12	
14:30	3	11	5	19	6	17	59	7	0	6	4	2	4	3	76	10	219	13	
14:45	7	22	11	15	5	17	79	3	0	5	3	1	5	5	81	8	250	17	
Hr Total	15	55	22	70	19	61	247	27	1	23	18	8	22	19	286	45	881	57	
15:00	3	11	5	13	6	12	62	5	1	7	7	2	11	6	86	17	233	21	
15:15	4	15	7	15	6	15	68	5	0	7	6	5	9	7	112	11	273	19	
15:30	1	20	10	20	5	19	58	7	0	16	10	6	14	7	101	13	287	20	
15:45	3	31	19	12	4	16	66	9	2	14	8	4	8	8	134	17	338	17	
Hr Total	11	77	41	60	21	62	254	26	3	44	31	17	42	28	433	58	1131	77	
16:00	4	17	8	20	6	26	71	1	1	19	5	1	11	11	109	15	303	22	
16:15	2	20	16	16	11	26	69	6	2	12	13	1	9	9	139	15	342	24	
16:30	1	16	13	19	11	24	69	5	0	26	15	6	7	4	148	20	365	19	
16:45	2	19	11	31	5	33	72	10	0	13	16	1	12	9	189	23	427	19	
Hr Total	9	72	48	86	33	109	281	22	3	70	49	9	39	33	585	73	1437	84	
17:00	2	19	9	20	2	24	64	6	0	14	15	7	7	6	174	21	379	11	
17:15	2	18	9	20	5	36	99	10	0	27	9	3	6	7	155	21	414	13	
17:30	0	15	14	22	3	28	85	10	0	30	7	3	6	11	154	14	393	9	
17:45	1	17	6	10	2	14	91	13	0	24	11	7	6	7	125	23	348	9	
Hr Total	5	69	38	72	12	102	339	39	0	95	42	20	25	31	608	79	1534	42	
18:00	0	9	11	19	2	18	77	9	0	16	7	6	1	10	103	11	296	3	
18:15	0	12	8	14	5	15	92	7	0	17	6	2	5	5	102	16	296	10	
18:30	3	8	8	17	2	14	73	5	0	11	13	8	3	10	86	9	262	8	
18:45	1	8	10	13	2	17	84	5	1	13	9	3	4	13	70	11	256	8	
Hr Total	4	37	37	63	11	64	326	26	1	57	35	19	13	38	361	47	1110	29	
19:00	0	13	7	12	2	9	84	10	0	6	7	5	1	3	79	10	245	3	
19:15	1	4	14	13	1	21	73	8	1	10	11	2	3	4	75	10	245	6	
19:30	0	7	6	18	1	11	60	4	0	5	7	5	1	7	61	5	196	2	
19:45	3	5	4	14	2	8	42	3	0	5	8	0	2	4	75	3	171	7	
Hr Total	4	29	31	57	6	49	259	25	1	26	33	12	7	18	290	28	857	18	

ANOKA COUNTY HIGHWAY DEPARTMENT

Site : 95240101
 Start Date: 08/24/95
 File I.D. : TMC9524
 Page : 3

Counter : TDC EIGHT
 Counted by LAURIE AND ANN
 AM:RAIN PM:CLEAR

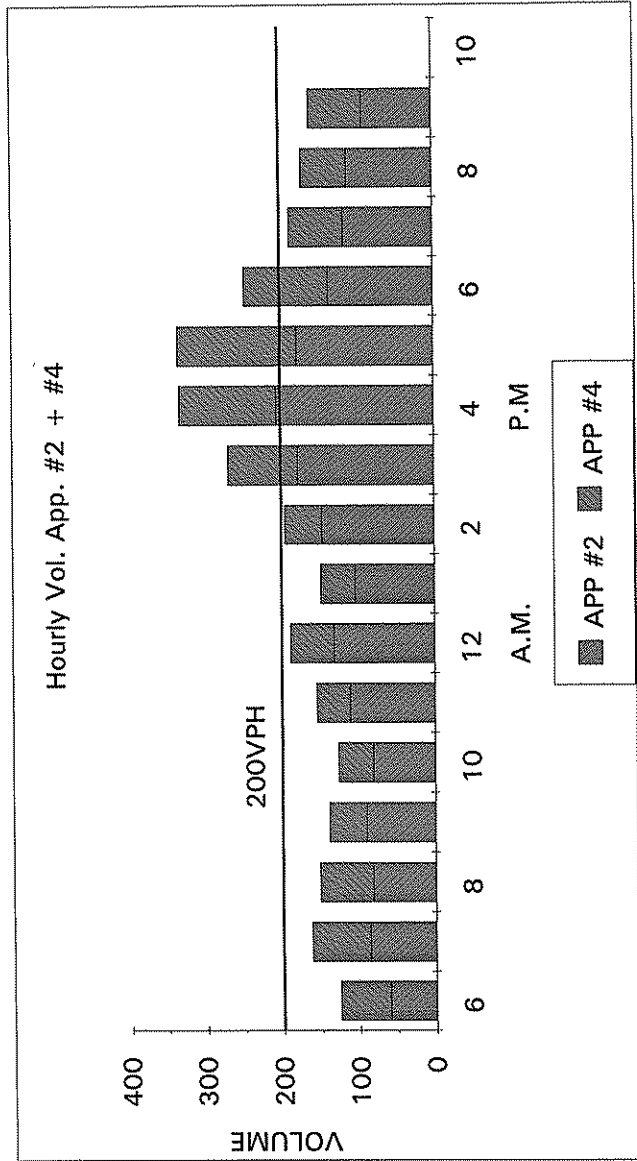
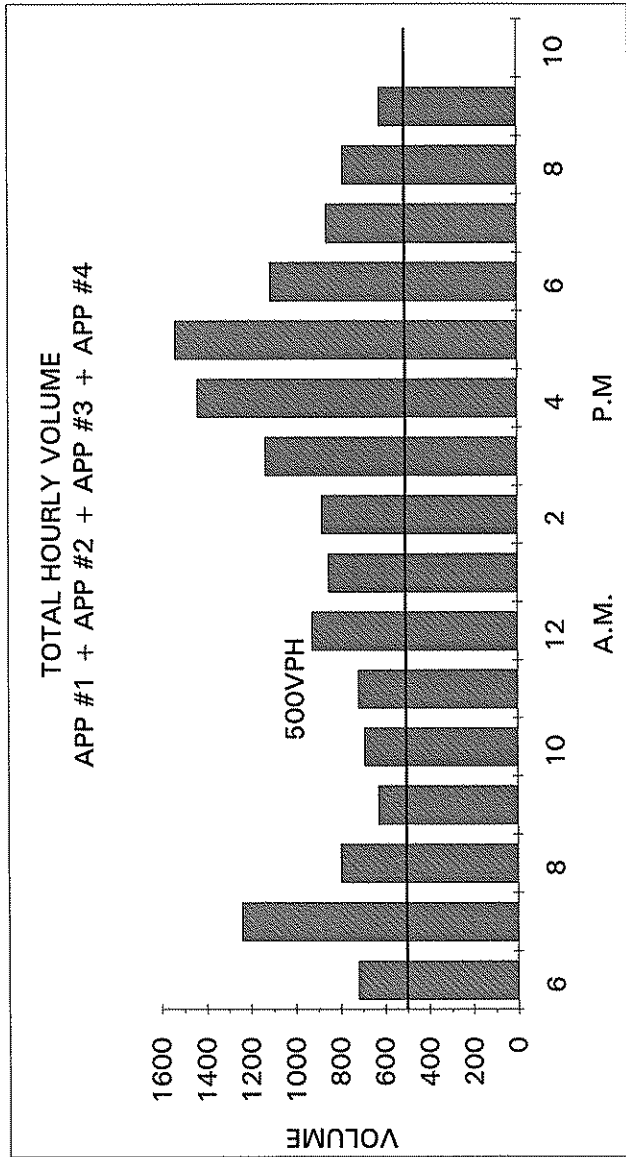
TRAFFIC ENGINEERING SECTION
 TRAFFIC VOLUME AND
 TURNING MOVEMENT STUDY

Vehicle group 1

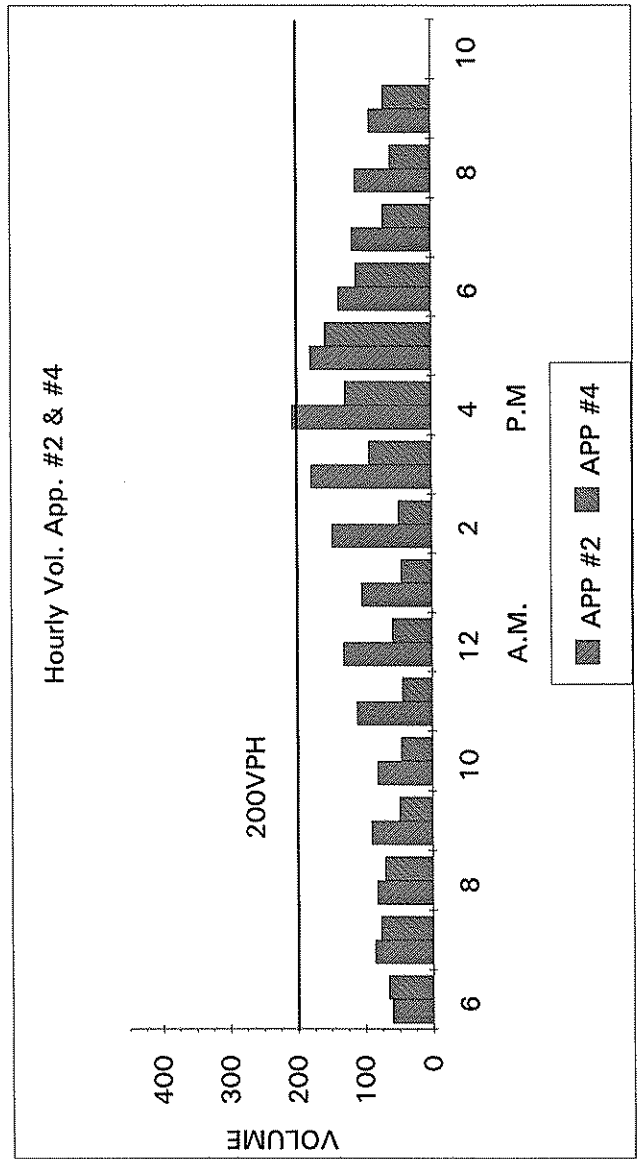
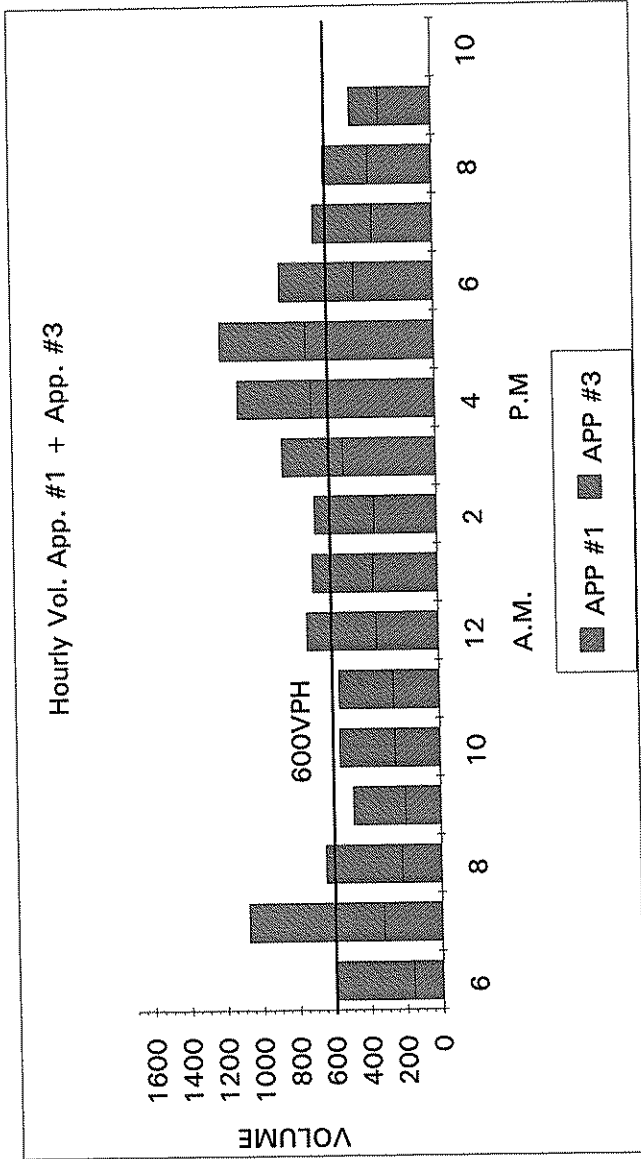
Date 08/24/95	AIRPORT ROAD Southbound			CSAH 32 (CR "J"/85TH AVE) Westbound			AIRPORT ROAD Northbound			CSAH 32 (CR "J"/85TH AVE) Eastbound			Vehicle Total	Other Total		
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left			Vehicle Total	
20:00	1	6	8	11	3	14	47	8	0	9	3	2	2	5	193	6
20:15	0	3	10	13	3	4	57	4	0	7	5	6	3	8	208	6
20:30	0	8	6	10	1	15	38	4	0	8	6	4	0	7	185	1
20:45	2	7	9	21	1	12	45	9	0	6	4	0	3	6	197	6
Hr Total	3	24	33	55	8	45	187	25	0	30	18	12	8	26	783	19
21:00	0	5	6	3	1	5	26	16	0	11	10	2	1	4	175	2
21:15	0	5	9	14	2	11	34	5	0	8	9	3	0	6	180	2
21:30	1	5	8	16	0	5	26	5	0	8	5	2	2	5	148	3
21:45	0	2	5	13	0	5	23	2	0	6	5	1	1	8	115	1
Hr Total	1	17	28	46	3	26	109	28	0	33	29	8	4	24	618	8

TOTAL 119 602 415 895 309 1096 4407 492 31 522 501 170 317 351 4684 786 14921 776

TMC9524 STOP WARRANT STUDY



TMC9524 SIGNAL WARRANT 1 STUDY



TMC9524 SIGNAL WARRANT 2 STUDY

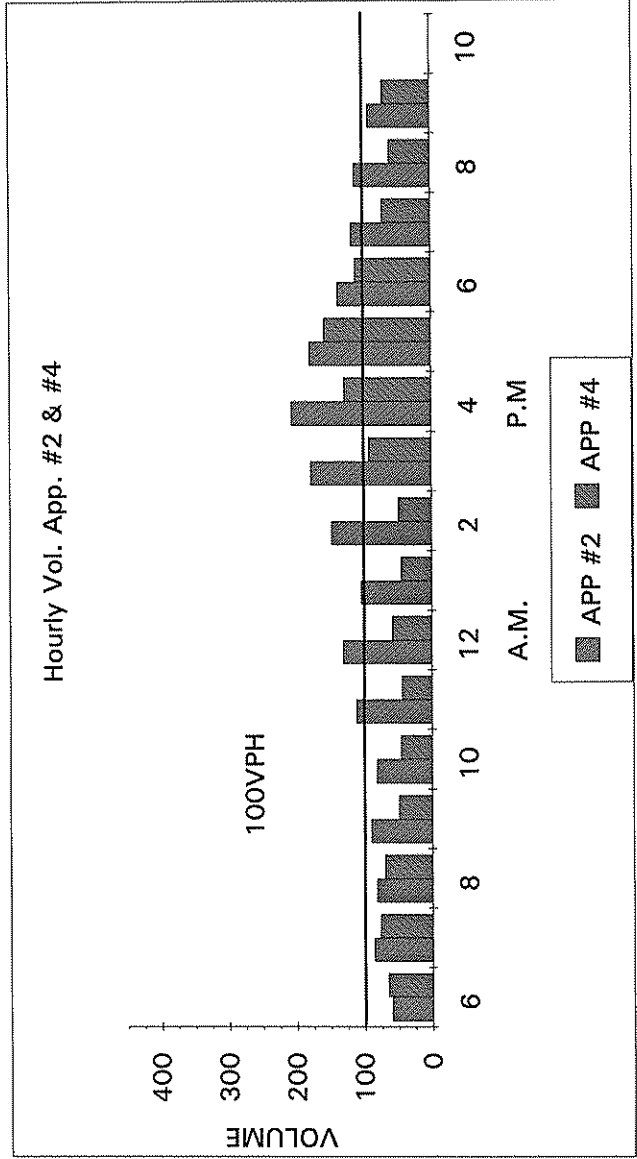
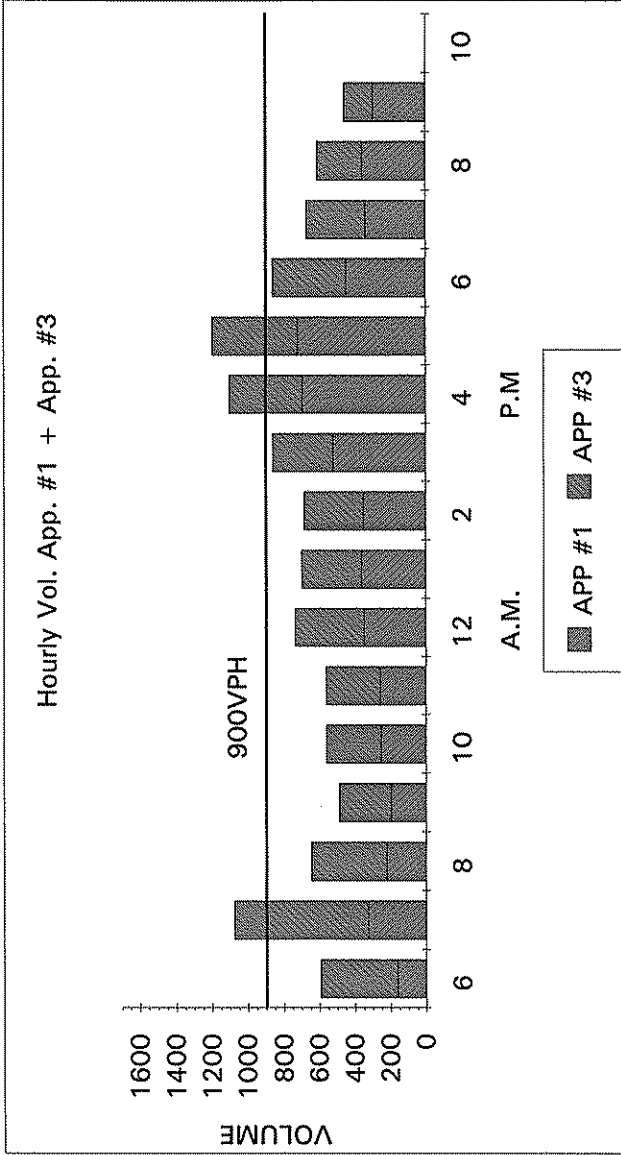
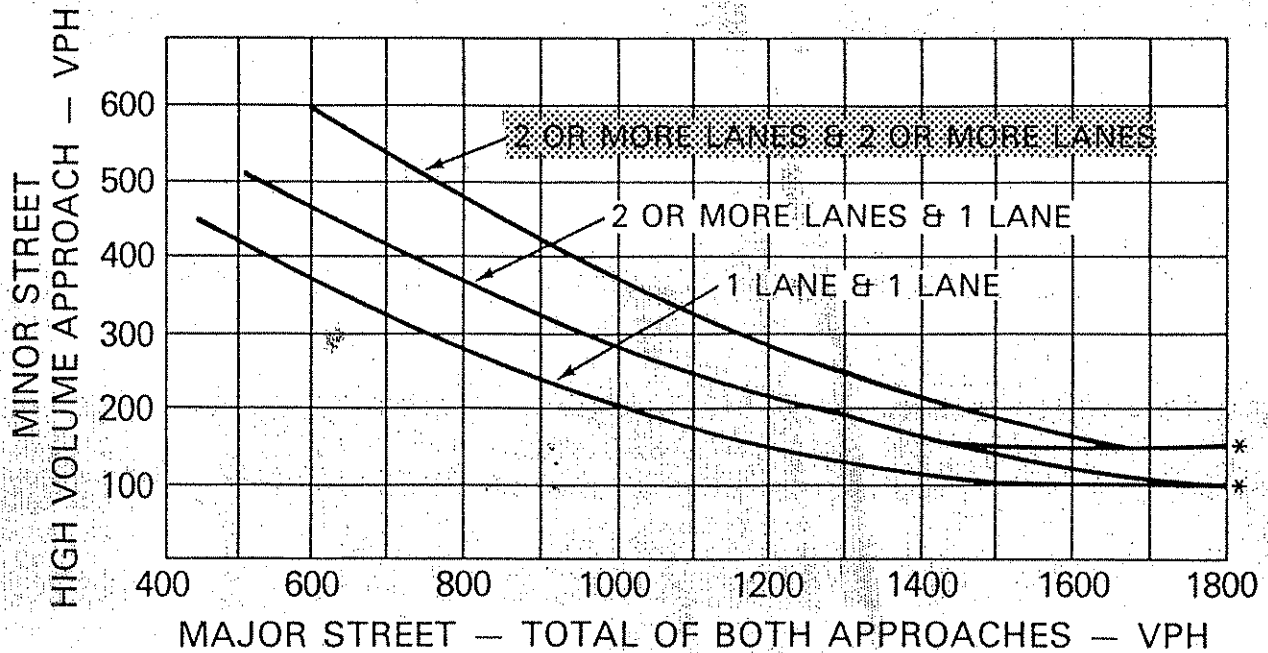


FIGURE 4-5. PEAK HOUR VOLUME WARRANT



*NOTE: 150 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

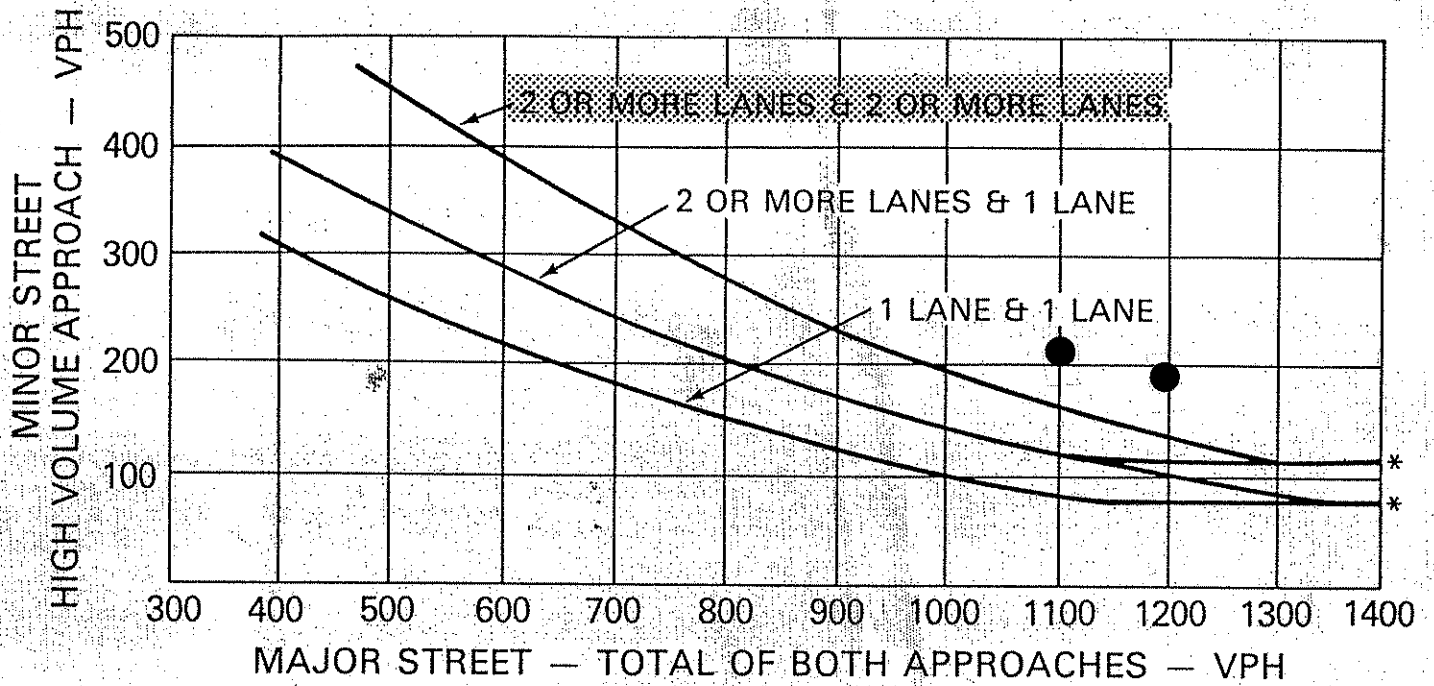
● = VOLUMES WHICH EXCEED THE THRESHOLD AND ARE REPRESENTED ON THE GRAPH.

★ = VOLUMES WHICH EXCEED THE THRESHOLD BUT CANNOT BE REPRESENTED ON THE GRAPH.

TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
6-7 am	594	66
7-8 am	1077	86
8-9 am	647	82
9-10 am	489	90
10-11 am	563	81
11-12 pm	563	111
12-1 pm	736	131
1-2 pm	701	104
2-3 pm	685	147
3-4 pm	861	178
4-5 pm	1103	206
5-6 pm	1198	179
6-7 pm	862	137
7-8 pm	669	117
8-9 pm	611	112
9-10 pm	457	91

TMC9524 CSAH 32 (85TH AVE/CR"J") @ AIRPORT RD.

FIGURE 4-7. FOUR HOUR VOLUME WARRANT



*NOTE: 115 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

● = VOLUMES WHICH EXCEED THE THRESHOLD AND ARE REPRESENTED ON THE GRAPH.

★ = VOLUMES WHICH EXCEED THE THRESHOLD BUT CANNOT BE REPRESENTED ON THE GRAPH.

TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
6-7 am	594	66
7-8 am	1077	86
8-9 am	647	82
9-10 am	489	90
10-11 am	563	81
11-12 pm	563	111
12-1 pm	736	131
1-2 pm	701	104
2-3 pm	685	147
3-4 pm	861	178
4-5 pm	1103	206
5-6 pm	1198	179
6-7 pm	862	137
7-8 pm	669	117
8-9 pm	611	112
9-10 pm	457	91

TMC9524 CSAH 32 (85TH AVE/CR"J") @ AIRPORT RD.

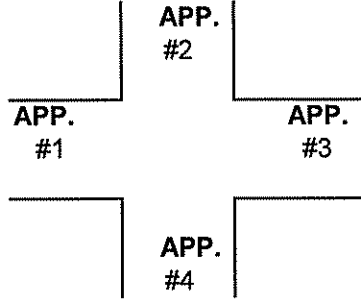


NORTH

- APP. #1= EB CSAH 32
- APP. #2=SB AIRPORT RD
- APP. #3= WB CSAH 32
- APP. #4=NB AIRPORT RD

COUNT LOCATION: CSAH 32 (85TH AVE/CR "J")
@ AIRPORT RD.

DATE: 8/24/95



- 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						3		
6:15-6:30						9		
6:30-6:45						6		1
6:45-7:00						4		
HOURLY TOTAL						HOURLY TOTAL		23
7:00-7:15						9		
7:15-7:30						16		1
7:30-7:45						9		
7:45-8:00						8		
HOURLY TOTAL						HOURLY TOTAL		43
8:00-8:15						16		2
8:15-8:30						13		1
8:30-8:45						8		
8:45-9:00						15		
HOURLY TOTAL						HOURLY TOTAL		55
9:00-9:15						15	1	
9:15-9:30						13		
9:30-9:45						22		
9:45-10:00						17		
HOURLY TOTAL						HOURLY TOTAL		68
10:00-10:15						13		
10:15-10:30						18	1	
10:30-10:45						16		
10:45-11:00						16		
HOURLY TOTAL						HOURLY TOTAL		64
11:00-11:15						10		1
11:15-11:30						16		
11:30-11:45						13		1
11:45-12:00						14		
HOURLY TOTAL						HOURLY TOTAL		55
12:00-12:15						18		
12:15-12:30						13		
12:30-12:45						11		
12:45-1:00						18		
HOURLY TOTAL						HOURLY TOTAL		60
1:00-1:15						20		
1:15-1:30						16		
1:30-1:45						12		
1:45-2:00						15		2
HOURLY TOTAL						HOURLY TOTAL		65

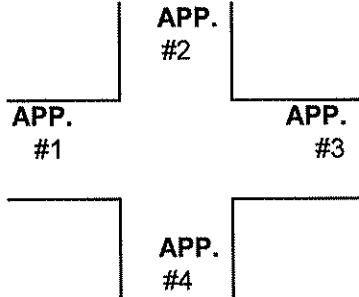


NORTH

- APP. #1= EB CSAH 32
- APP. #2= SB AIRPORT RD
- APP. #3= WB CSAH 32
- APP. #4= NB AIRPORT RD

COUNT LOCATION: CSAH 32 (85TH AVE/CR"J")
@ AIRPORT RD.

DATE: 8/22/95



- 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						14		
2:15-2:30						10	2	
2:30-2:45						10	1	1
2:45-3:00						16		
HOURLY TOTAL						HOURLY TOTAL		54
3:00-3:15						20		
3:15-3:30						18		
3:30-3:45						18		
3:45-4:00						14		1
HOURLY TOTAL						HOURLY TOTAL		71
4:00-4:15						18		
4:15-4:30						17	2	1
4:30-4:45						15		1
4:45-5:00						18		1
HOURLY TOTAL						HOURLY TOTAL		73
5:00-5:15						11		
5:15-5:30						14		
5:30-5:45						9		
5:45-6:00						8		1
HOURLY TOTAL						HOURLY TOTAL		43
6:00-6:15						1		1
6:15-6:30						9		
6:30-6:45						8		
6:45-7:00						7		
HOURLY TOTAL						HOURLY TOTAL		26
7:00-7:15						2		
7:15-7:30						6	1	
7:30-7:45						2		
7:45-8:00						7		
HOURLY TOTAL						HOURLY TOTAL		18
8:00-8:15						4	1	
8:15-8:30						5		1
8:30-8:45						1		
8:45-9:00						6		
HOURLY TOTAL						HOURLY TOTAL		18
9:00-9:15						2		
9:15-9:30						2		
9:30-9:45						3		
9:45-10:00						1		
HOURLY TOTAL						HOURLY TOTAL		8