

IH 794: IH 43 TO LINCOLN MEMORIAL DR (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY WESTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH				
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE		
MID-1 AM	889	0.0	1499	889	0	2.31	162	69.6	21.3	37.9	
1-2 AM	823	0.0	1500	823	0	0.29	0	69.7	52.3	42.3	
2-3 AM	449	0.0	1500	449	0	0.27	0	70.2	53.5	43.7	
3-4 AM	347	0.0	1500	347	0	0.26	0	70.2	53.8	44.1	
4-5 AM	569	0.0	1500	569	0	0.27	0	70.0	53.1	43.2	
5-6 AM	1501	0.0	OFF	1501	0	0.00	0	68.9	68.9	68.9	
6-7 AM	3326	0.0	OFF	3326	0	0.00	0	66.6	66.6	66.6	
7-8 AM	4266	0.0	OFF	4266	0	0.00	0	61.7	61.7	61.7	
8-9 AM	3159	0.0	OFF	3159	0	0.00	0	66.8	66.8	66.8	
9-10 AM	2730	0.0	OFF	2730	0	0.00	0	67.3	67.3	67.3	
10-11 AM	3037	0.0	OFF	3037	0	0.00	0	66.9	66.9	66.9	
11AM-NOON	3727	0.0	OFF	3727	0	0.00	0	65.4	65.4	65.4	
NOON-1PM	3812	0.0	OFF	3812	0	0.00	0	64.8	64.8	64.8	
1-2 PM	3953	0.0	OFF	3953	0	0.00	0	63.8	63.8	63.8	
2-3 PM	4516	0.0	OFF	4516	0	0.00	0	60.0	60.0	60.0	
3-4 PM	4822	0.0	OFF	4822	0	0.00	0	57.9	57.9	57.9	
4-5 PM	4886	0.0	OFF	4886	0	0.00	0	57.5	57.5	57.5	
5-6 PM	3989	0.0	OFF	3989	0	0.00	0	63.6	63.6	63.6	
6-7 PM	2858	0.0	OFF	2858	0	0.00	0	67.2	67.2	67.2	
7-8 PM	2158	0.0	1499	1875	283	11.27+	304	68.1	6.7	30.8	
8-9 PM	2166	0.0	1500	1506	660	16.66+	422	68.1	5.4	30.8	
9-10 PM	2353	0.0	1500	1508	845	16.69+	422	67.8	5.4	30.8	
10-11 PM	2442	0.0	1500	1508	934	16.70+	423	67.7	5.4	30.8	
11PM-MID	2049	0.0	1500	1503	546	16.66+	421	68.2	5.4	30.8	

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0103
MAIN ROUTE WITH WORKS	0.0086
'DIVERSION'	0.0012
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$42,551
CONGESTED HOURS PER DAY*	5

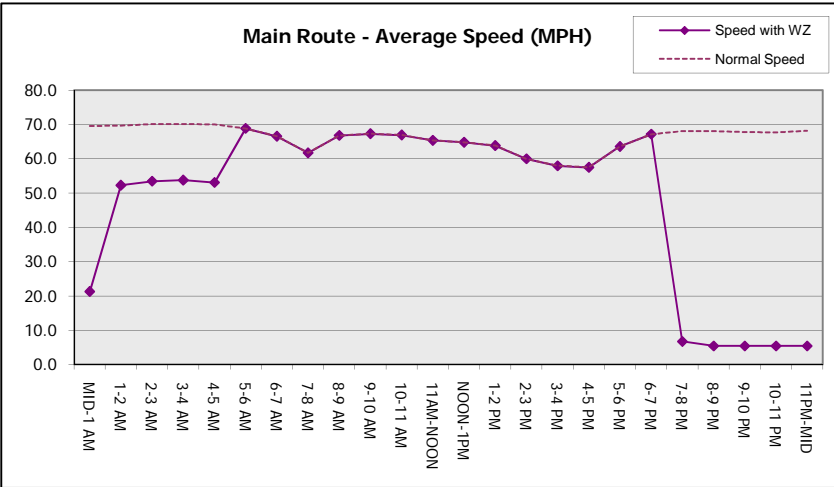
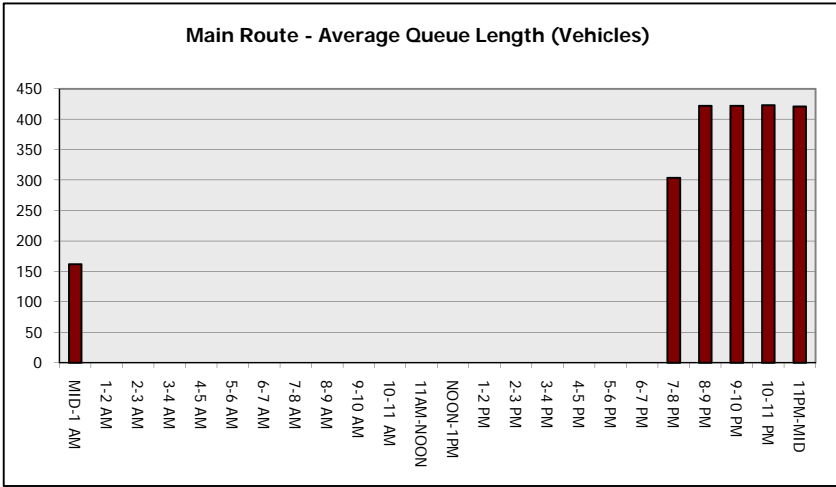
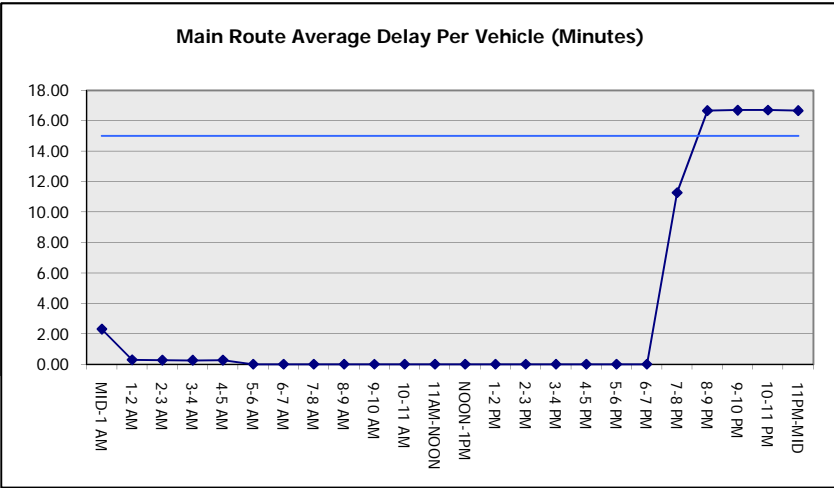
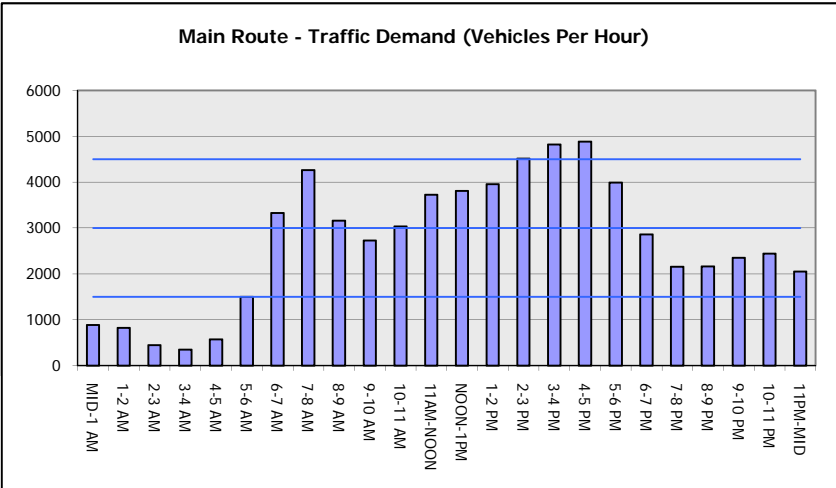
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE		
MID-1 AM	637	0.0	1500	637	0	0.79	54	69.9	37.1	42.7	
1-2 AM	424	0.0	1500	424	0	0.27	0	70.2	53.5	43.8	
2-3 AM	307	0.0	1500	307	0	0.26	0	70.2	53.9	44.3	
3-4 AM	361	0.0	1500	361	0	0.26	0	70.2	53.7	44.0	
4-5 AM	832	0.0	1500	832	0	0.29	0	69.7	52.2	42.3	
5-6 AM	2668	0.0	OFF	2668	0	0.00	0	67.4	67.4	67.4	
6-7 AM	4733	0.0	OFF	4733	0	0.00	0	58.5	58.5	58.5	
7-8 AM	5414	0.0	OFF	5414	0	0.00	0	53.8	53.8	53.8	
8-9 AM	4312	0.0	OFF	4312	0	0.00	0	61.4	61.4	61.4	
9-10 AM	3187	0.0	OFF	3187	0	0.00	0	66.8	66.8	66.8	
10-11 AM	3078	0.0	OFF	3078	0	0.00	0	66.9	66.9	66.9	
11AM-NOON	3270	0.0	OFF	3270	0	0.00	0	66.7	66.7	66.7	
NOON-1PM	3292	0.0	OFF	3292	0	0.00	0	66.6	66.6	66.6	
1-2 PM	3412	0.0	OFF	3412	0	0.00	0	66.5	66.5	66.5	
2-3 PM	3506	0.0	OFF	3506	0	0.00	0	66.4	66.4	66.4	
3-4 PM	3871	0.0	OFF	3871	0	0.00	0	64.4	64.4	64.4	
4-5 PM	4148	0.0	OFF	4148	0	0.00	0	62.5	62.5	62.5	
5-6 PM	3971	0.0	OFF	3971	0	0.00	0	63.7	63.7	63.7	
6-7 PM	3782	0.0	OFF	3782	0	0.00	0	65.0	65.0	65.0	
7-8 PM	2904	0.0	1499	1598	1306	16.07+	411	67.1	5.5	36.4	
8-9 PM	2644	0.0	1499	1668	976	15.07+	398	67.4	5.8	35.3	
9-10 PM	2601	0.0	1499	1631	969	16.41+	416	67.5	5.5	30.8	
10-11 PM	2203	0.0	1500	1503	700	16.67+	422	68.0	5.4	30.8	
11PM-MID	1457	0.0	1500	1382	75	15.04+	381	68.9	5.7	30.8	

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0107
MAIN ROUTE WITH WORKS	0.0089
'DIVERSION'	0.0015

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$45,339
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

