

<b>IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY)                  NIGHTTIME 2 LANE CLOSURE                  NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	2170	0.0	1500	1611	559	16.33+	400	68.1	7.8	30.8	
1-2 AM	1458	0.0	1500	1442	15	16.06+	392	68.9	7.8	30.8	
2-3 AM	1497	0.0	1500	1497	0	15.02	364	68.9	8.1	30.8	
3-4 AM	755	0.0	1499	755	0	1.94	94	69.8	33.7	41.4	
4-5 AM	481	0.0	1500	481	0	0.53	0	70.1	54.2	43.6	
5-6 AM	558	0.0	1500	558	0	0.54	0	70.0	53.9	43.3	
6-7 AM	954	0.0	1500	954	0	0.58	0	69.6	52.7	41.9	
7-8 AM	1216	0.0	1500	1216	0	0.73	0	69.2	49.4	37.9	
8-9 AM	1284	0.0	1499	1284	0	0.80	0	69.1	48.0	36.5	
9-10 AM	2396	0.0	OFF	2396	0	0.00	0	67.8	67.8	67.8	
10-11 AM	3476	0.0	OFF	3476	0	0.00	0	66.4	66.4	66.4	
11AM-NOON	4191	0.0	OFF	4191	0	0.00	0	62.2	62.2	62.2	
NOON-1PM	4467	0.0	OFF	4467	0	0.00	0	60.4	60.4	60.4	
1-2 PM	4104	0.0	OFF	4104	0	0.00	0	62.8	62.8	62.8	
2-3 PM	4149	0.0	OFF	4149	0	0.00	0	62.5	62.5	62.5	
3-4 PM	4086	0.0	OFF	4086	0	0.00	0	63.0	63.0	63.0	
4-5 PM	3971	0.0	OFF	3971	0	0.00	0	63.7	63.7	63.7	
5-6 PM	3559	0.0	OFF	3559	0	0.00	0	66.3	66.3	66.3	
6-7 PM	3396	0.0	OFF	3396	0	0.00	0	66.5	66.5	66.5	
7-8 PM	3140	0.0	1499	1570	1570	17.09+	427	66.8	7.6	36.6	
8-9 PM	2745	0.0	1499	1624	1120	14.78+	388	67.3	8.4	35.8	
9-10 PM	2513	0.0	1499	1786	727	15.89+	392	67.6	7.9	30.8	
10-11 PM	2354	0.0	1499	1490	864	16.80+	411	67.8	7.6	30.8	
11PM-MID	1424	0.0	1499	1320	104	14.40+	350	69.0	8.4	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

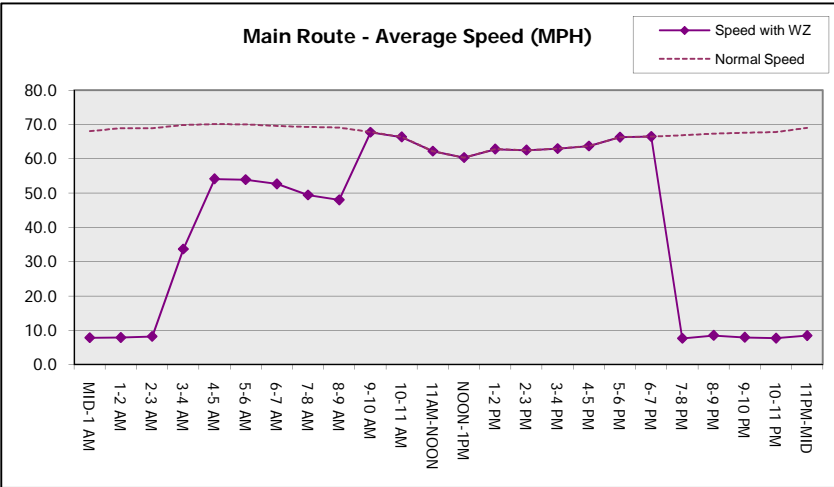
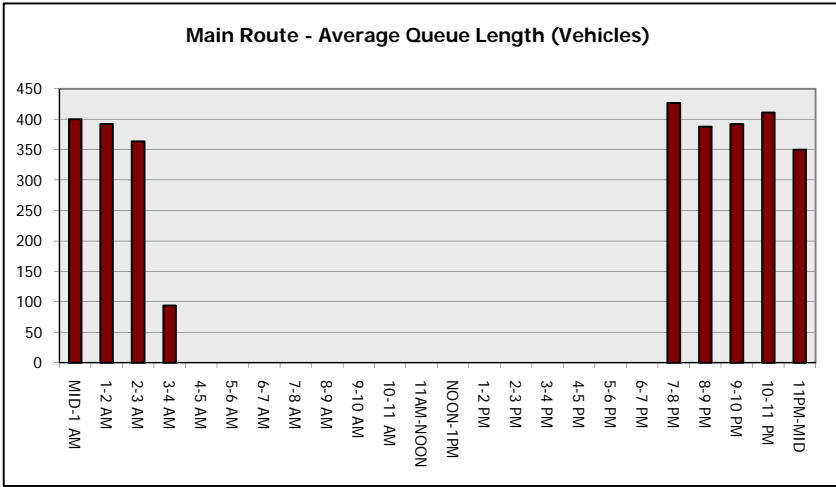
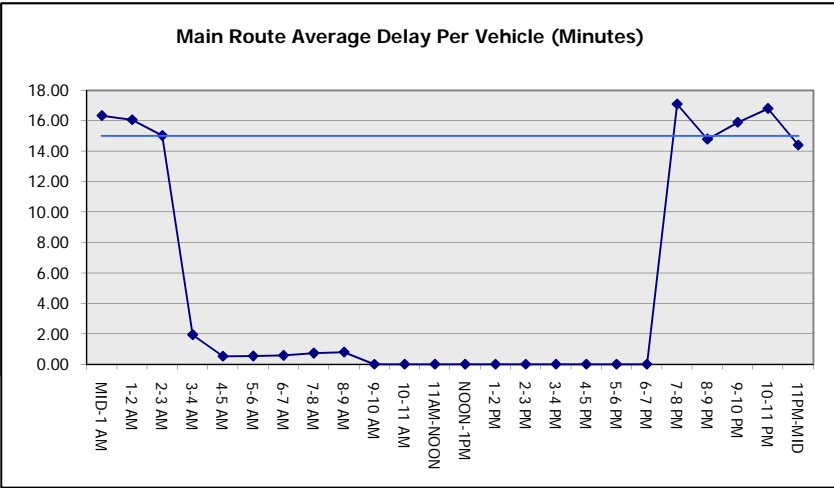
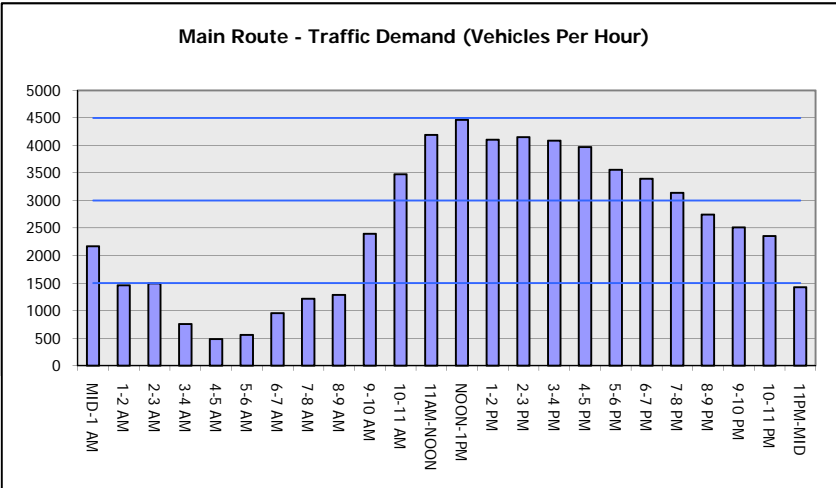
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0202
MAIN ROUTE WITH WORKS	0.0173
'DIVERSION'	0.0038
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$71,847
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding User-Specified Maximum

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NIGHTTIME 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY WESTBOUND DIRECTION**



<b>IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	1416	0.0	1500	1416	0	0.99	0	69.0	44.8	32.6
1-2 AM	758	0.0	1500	758	0	0.56	0	69.8	53.2	42.5
2-3 AM	575	0.0	1500	575	0	0.54	0	70.0	53.8	43.2
3-4 AM	507	0.0	1500	507	0	0.53	0	70.1	54.0	43.5
4-5 AM	331	0.0	1500	331	0	0.51	0	70.2	54.6	44.2
5-6 AM	448	0.0	1500	448	0	0.53	0	70.2	54.2	43.7
6-7 AM	739	0.0	1500	739	0	0.56	0	69.8	53.3	42.6
7-8 AM	1048	0.0	1500	1048	0	0.59	0	69.4	52.4	41.5
8-9 AM	1286	0.0	1499	1286	0	0.80	0	69.1	47.9	36.3
9-10 AM	2222	0.0	OFF	2222	0	0.00	0	68.0	68.0	68.0
10-11 AM	2509	0.0	OFF	2509	0	0.00	0	67.6	67.6	67.6
11AM-NOON	2686	0.0	OFF	2686	0	0.00	0	67.4	67.4	67.4
NOON-1PM	2767	0.0	OFF	2767	0	0.00	0	67.3	67.3	67.3
1-2 PM	3503	0.0	OFF	3503	0	0.00	0	66.4	66.4	66.4
2-3 PM	3427	0.0	OFF	3427	0	0.00	0	66.4	66.4	66.4
3-4 PM	3584	0.0	OFF	3584	0	0.00	0	66.3	66.3	66.3
4-5 PM	3710	0.0	OFF	3710	0	0.00	0	65.5	65.5	65.5
5-6 PM	3494	0.0	OFF	3494	0	0.00	0	66.4	66.4	66.4
6-7 PM	3426	0.0	OFF	3426	0	0.00	0	66.4	66.4	66.4
7-8 PM	2959	0.0	1499	1562	1397	16.11+	401	67.1	7.8	36.5
8-9 PM	2748	0.0	1499	1605	1142	14.85+	391	67.3	8.4	35.9
9-10 PM	2483	0.0	1499	1760	723	15.46+	385	67.6	8.1	31.7
10-11 PM	1680	0.0	1499	1464	216	16.62+	406	68.6	7.7	30.8
11PM-MID	994	0.0	1499	994	0	3.64	159	69.5	23.4	37.8

"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	0.0165
MAIN ROUTE WITH WORKS	0.0144
'DIVERSION'	0.0027

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$41,890
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding User-Specified Maximum

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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY EASTBOUND DIRECTION**

