

IH 894: STH 59 TO HALE INTERCHANGE (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	829	0.0	1500	829	0	1.12	25	69.7	50.8	42.2	
1-2 AM	509	0.0	1500	509	0	0.53	0	70.1	59.5	43.5	
2-3 AM	443	0.0	1500	443	0	0.53	0	70.2	59.7	43.7	
3-4 AM	528	0.0	1500	528	0	0.54	0	70.0	59.4	43.4	
4-5 AM	1183	0.0	1499	1183	0	1.10	9	69.2	50.9	36.6	
5-6 AM	3680	0.0	OFF	3680	0	0.02	0	65.7	65.4	65.4	
6-7 AM	5653	0.0	OFF	5653	0	0.00	0	52.2	52.2	52.2	
7-8 AM	5093	0.0	OFF	5093	0	0.00	0	56.1	56.1	56.1	
8-9 AM	4782	0.0	OFF	4782	0	0.00	0	58.2	58.2	58.2	
9-10 AM	4712	0.0	OFF	4712	0	0.00	0	58.7	58.7	58.7	
10-11 AM	4678	0.0	OFF	4678	0	0.00	0	58.9	58.9	58.9	
11AM-NOON	4641	0.0	OFF	4641	0	0.00	0	59.2	59.2	59.2	
NOON-1PM	4640	0.0	OFF	4640	0	0.00	0	59.2	59.2	59.2	
1-2 PM	4885	0.0	OFF	4885	0	0.00	0	57.5	57.5	57.5	
2-3 PM	5207	0.0	OFF	5207	0	0.00	0	55.3	55.3	55.3	
3-4 PM	5035	0.0	OFF	5035	0	0.00	0	56.4	56.4	56.4	
4-5 PM	5063	0.0	OFF	5063	0	0.00	0	56.3	56.3	56.3	
5-6 PM	5007	0.0	OFF	5007	0	0.00	0	56.6	56.6	56.6	
6-7 PM	4467	0.0	OFF	4467	0	0.00	0	60.4	60.4	60.4	
7-8 PM	3402	0.0	1499	1550	1852	16.47+	412	66.5	10.7	36.6	
8-9 PM	2940	0.0	1499	1597	1343	14.34+	379	67.1	12.0	36.0	
9-10 PM	2656	0.0	1499	1778	878	14.87+	373	67.4	11.7	32.5	
10-11 PM	2025	0.0	1499	1500	525	16.35+	399	68.2	10.8	30.8	
11PM-MID	1274	0.0	1499	1246	29	12.98+	325	69.2	13.1	31.5	

"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

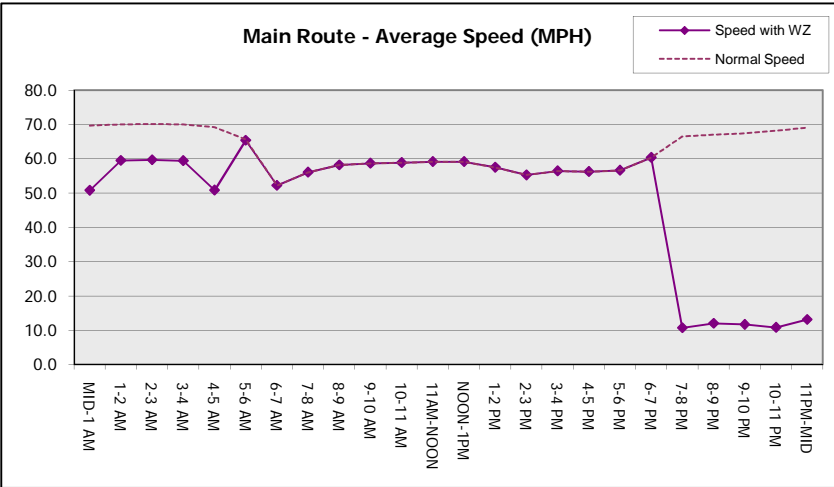
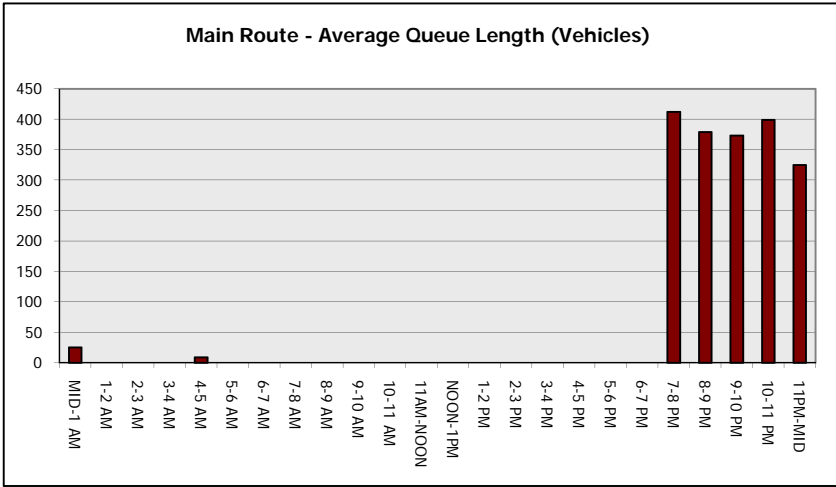
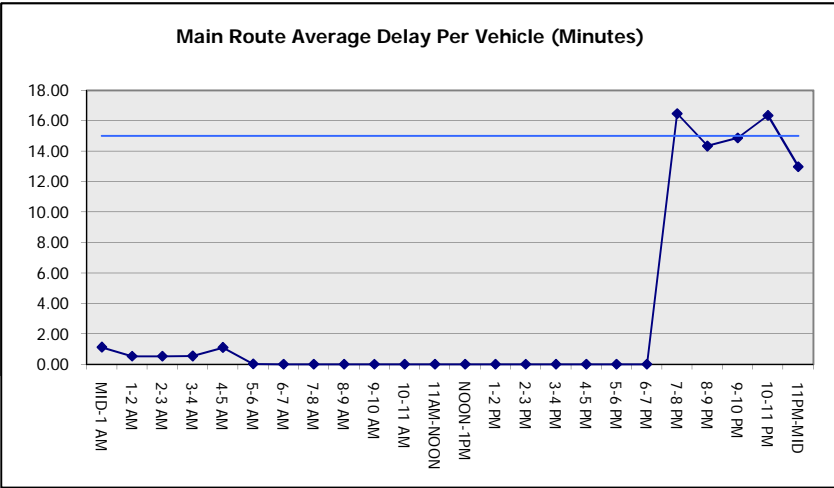
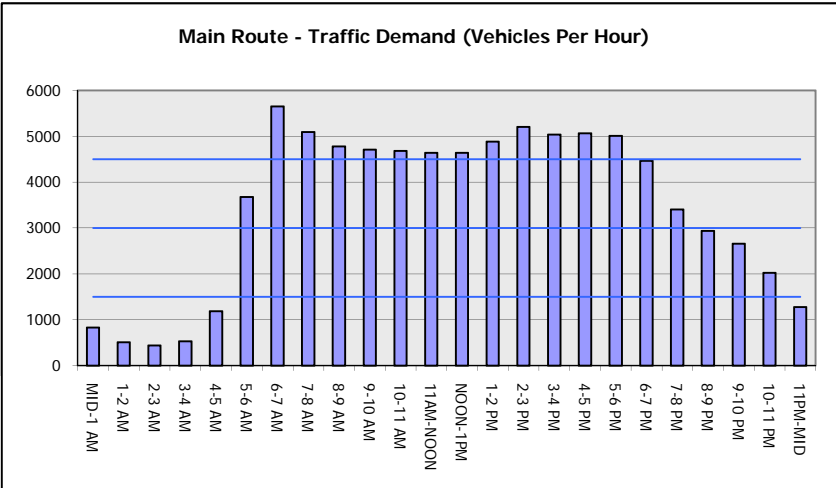
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0464
MAIN ROUTE WITH WORKS	0.0431
'DIVERSION'	0.0060
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$43,325
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	725	0.0	1499	725	0	2.47	108	69.9	38.3	41.2	
1-2 AM	472	0.0	1500	472	0	0.53	0	70.2	59.6	43.6	
2-3 AM	414	0.0	1500	414	0	0.52	0	70.2	59.7	43.8	
3-4 AM	515	0.0	1500	515	0	0.53	0	70.1	59.5	43.5	
4-5 AM	1027	0.0	1499	1027	0	0.65	0	69.4	57.1	39.9	
5-6 AM	2121	0.0	OFF	2121	0	0.00	0	68.1	68.1	68.1	
6-7 AM	3725	0.0	OFF	3725	0	0.00	0	65.4	65.4	65.4	
7-8 AM	4523	0.0	OFF	4523	0	0.00	0	59.9	59.9	59.9	
8-9 AM	4283	0.0	OFF	4283	0	0.00	0	61.6	61.6	61.6	
9-10 AM	4007	0.0	OFF	4007	0	0.00	0	63.5	63.5	63.5	
10-11 AM	4014	0.0	OFF	4014	0	0.00	0	63.4	63.4	63.4	
11AM-NOON	4348	0.0	OFF	4348	0	0.00	0	61.2	61.2	61.2	
NOON-1PM	4588	0.0	OFF	4588	0	0.00	0	59.5	59.5	59.5	
1-2 PM	4798	0.0	OFF	4798	0	0.00	0	58.1	58.1	58.1	
2-3 PM	5795	0.0	OFF	5795	0	0.00	0	51.3	51.3	51.3	
3-4 PM	6379	0.0	OFF	6379	0	0.00	0	47.3	47.3	47.3	
4-5 PM	6380	0.0	OFF	6380	0	0.00	0	47.3	47.3	47.3	
5-6 PM	6234	0.0	OFF	6234	0	0.00	0	48.3	48.3	48.3	
6-7 PM	5237	0.0	OFF	5237	0	0.00	0	55.1	55.1	55.1	
7-8 PM	3872	0.0	1499	1550	2322	16.36+	412	64.4	10.7	36.6	
8-9 PM	3380	0.0	1499	1645	1735	14.37+	378	66.5	12.0	35.8	
9-10 PM	2947	0.0	1499	1703	1244	15.69+	386	67.1	11.2	30.8	
10-11 PM	2178	0.0	1500	1500	678	16.34+	400	68.0	10.8	30.8	
11PM-MID	1630	0.0	1500	1474	156	16.08+	392	68.7	11.0	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	0.0
(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	0
(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	0.0465
MAIN ROUTE WITH WORKS	0.0424
'DIVERSION'	0.0079

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$50,771
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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MON-THUR EASTBOUND DIRECTION

