

IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY SOUTHBOUND 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	1049	0.0	3000	1049	0	0.35	0	69.4	63.5	49.7
1-2 AM	616	0.0	3000	616	0	0.36	0	70.0	63.8	49.7
2-3 AM	566	0.0	3000	566	0	0.36	0	70.0	63.8	49.7
3-4 AM	475	0.0	3000	475	0	0.36	0	70.2	63.9	49.7
4-5 AM	607	0.0	3000	607	0	0.36	0	70.0	63.8	49.7
5-6 AM	1034	0.0	3000	1034	0	0.35	0	69.4	63.5	49.7
6-7 AM	1688	0.0	3000	1688	0	0.34	0	68.6	63.0	49.7
7-8 AM	2500	0.0	2999	2500	0	0.43	0	67.6	60.8	46.1
8-9 AM	3289	0.0	OFF	3289	0	0.00	0	66.6	66.6	66.6
9-10 AM	3651	0.0	OFF	3651	0	0.00	0	65.9	65.9	65.9
10-11 AM	4012	0.0	OFF	4012	0	0.00	0	63.5	63.5	63.5
11AM-NOON	4313	0.0	OFF	4313	0	0.00	0	61.4	61.4	61.4
NOON-1PM	4526	0.0	OFF	4526	0	0.00	0	59.9	59.9	59.9
1-2 PM	3977	0.0	OFF	3977	0	0.00	0	63.7	63.7	63.7
2-3 PM	3904	0.0	OFF	3904	0	0.00	0	64.2	64.2	64.2
3-4 PM	4301	0.0	OFF	4301	0	0.00	0	61.5	61.5	61.5
4-5 PM	4145	0.0	OFF	4145	0	0.00	0	62.5	62.5	62.5
5-6 PM	4085	0.0	OFF	4085	0	0.00	0	63.0	63.0	63.0
6-7 PM	3547	0.0	2999	3547	0	5.77	312	66.3	26.7	37.3
7-8 PM	2841	0.0	2999	2841	0	9.89	507	67.2	18.8	37.3
8-9 PM	2286	0.0	2999	2286	0	1.82	118	67.9	45.9	46.1
9-10 PM	2190	0.0	3000	2190	0	0.33	0	68.0	62.5	49.7
10-11 PM	1879	0.0	3000	1879	0	0.34	0	68.4	62.8	49.7
11PM-MID	1513	0.0	3000	1513	0	0.34	0	68.9	63.1	49.7

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

----- 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	0.0431
MAIN ROUTE WITH WORKS	0.0416
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$16,190
CONGESTED HOURS PER DAY*	0

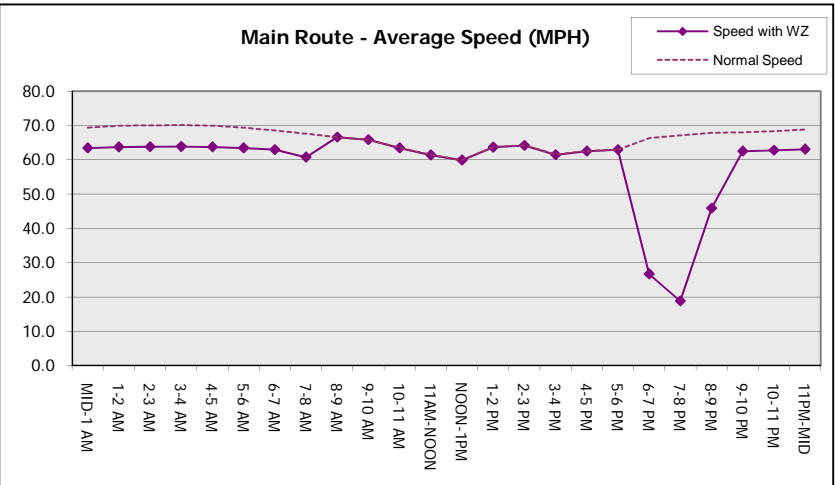
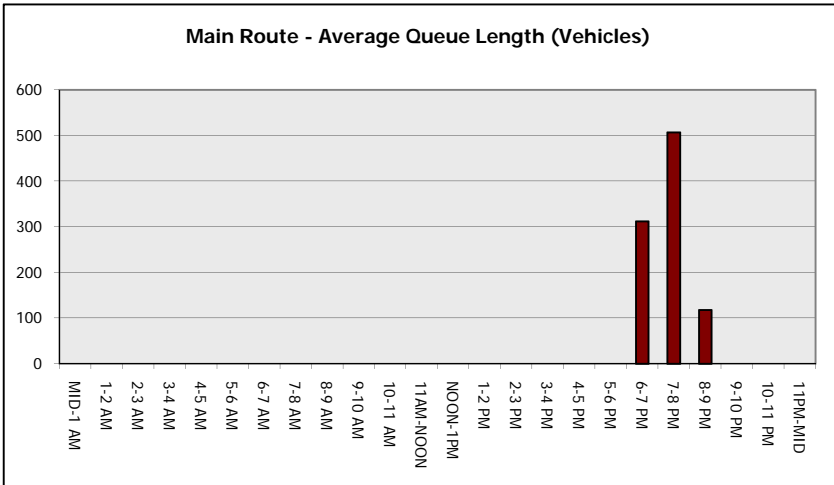
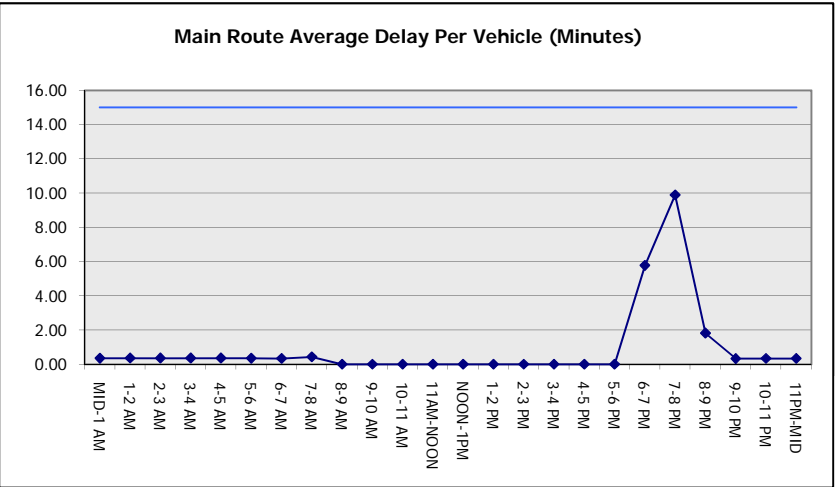
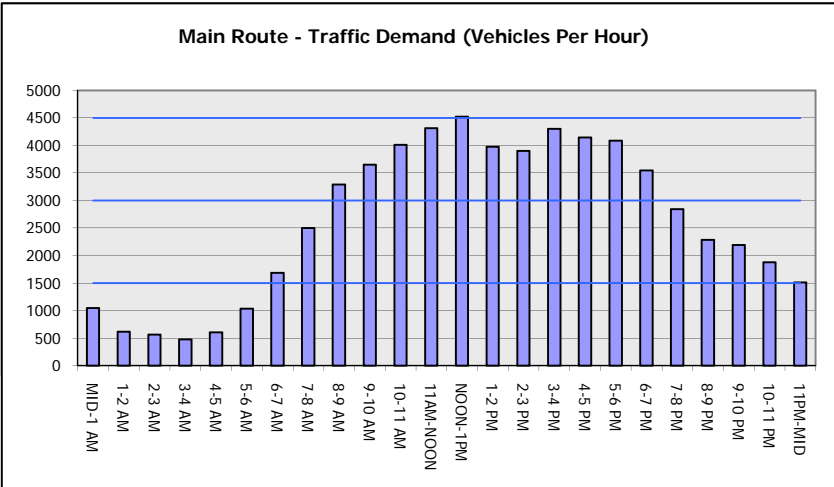
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY NORTHBOUND 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	854	0.0	3000	854	0	0.35	0	69.7	63.6	49.7
1-2 AM	504	0.0	3000	504	0	0.36	0	70.1	63.9	49.7
2-3 AM	459	0.0	3000	459	0	0.36	0	70.2	63.9	49.7
3-4 AM	409	0.0	3000	409	0	0.36	0	70.2	63.9	49.7
4-5 AM	602	0.0	3000	602	0	0.36	0	70.0	63.8	49.7
5-6 AM	1137	0.0	3000	1137	0	0.35	0	69.3	63.4	49.7
6-7 AM	1549	0.0	3000	1549	0	0.34	0	68.8	63.0	49.7
7-8 AM	1976	0.0	3000	1976	0	0.34	0	68.2	62.7	49.7
8-9 AM	2579	0.0	OFF	2579	0	0.00	0	67.5	67.5	67.5
9-10 AM	3074	0.0	OFF	3074	0	0.00	0	66.9	66.9	66.9
10-11 AM	3549	0.0	OFF	3549	0	0.00	0	66.3	66.3	66.3
11AM-NOON	4063	0.0	OFF	4063	0	0.00	0	63.1	63.1	63.1
NOON-1PM	4274	0.0	OFF	4274	0	0.00	0	61.7	61.7	61.7
1-2 PM	3614	0.0	OFF	3614	0	0.00	0	66.1	66.1	66.1
2-3 PM	4085	0.0	OFF	4085	0	0.00	0	63.0	63.0	63.0
3-4 PM	4319	0.0	OFF	4319	0	0.00	0	61.4	61.4	61.4
4-5 PM	4263	0.0	OFF	4263	0	0.00	0	61.7	61.7	61.7
5-6 PM	4135	0.0	OFF	4135	0	0.00	0	62.6	62.6	62.6
6-7 PM	3730	0.0	2999	3730	0	6.97	399	65.4	23.6	37.3
7-8 PM	3015	0.0	2999	3015	0	14.76+	773	67.0	13.8	37.3
8-9 PM	2561	0.0	2999	2561	0	10.31	546	67.6	18.3	37.5
9-10 PM	2325	0.0	2999	2325	0	1.44	81	67.8	49.2	46.3
10-11 PM	1779	0.0	3000	1779	0	0.34	0	68.5	62.8	49.7
11PM-MID	1370	0.0	3000	1370	0	0.34	0	69.1	63.2	49.7

"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	0.0412
MAIN ROUTE WITH WORKS	0.0397
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$29,114
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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