

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

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	768	0.0	3000	768	0	0.35	0	69.8	63.7	49.7	
1-2 AM	497	0.0	3000	497	0	0.36	0	70.1	63.9	49.7	
2-3 AM	413	0.0	3000	413	0	0.36	0	70.2	63.9	49.7	
3-4 AM	485	0.0	3000	485	0	0.36	0	70.1	63.9	49.7	
4-5 AM	899	0.0	3000	899	0	0.35	0	69.6	63.6	49.7	
5-6 AM	2409	0.0	OFF	2409	0	0.00	0	67.8	67.8	67.8	
6-7 AM	4307	0.0	OFF	4307	0	0.00	0	61.4	61.4	61.4	
7-8 AM	4586	0.0	OFF	4586	0	0.00	0	59.6	59.6	59.6	
8-9 AM	3846	0.0	OFF	3846	0	0.00	0	64.6	64.6	64.6	
9-10 AM	3594	0.0	OFF	3594	0	0.00	0	66.3	66.3	66.3	
10-11 AM	3704	0.0	OFF	3704	0	0.00	0	65.6	65.6	65.6	
11AM-NOON	3793	0.0	OFF	3793	0	0.00	0	65.0	65.0	65.0	
NOON-1PM	3827	0.0	OFF	3827	0	0.00	0	64.7	64.7	64.7	
1-2 PM	4103	0.0	OFF	4103	0	0.00	0	62.8	62.8	62.8	
2-3 PM	4663	0.0	OFF	4663	0	0.00	0	59.0	59.0	59.0	
3-4 PM	5146	0.0	OFF	5146	0	0.00	0	55.7	55.7	55.7	
4-5 PM	5306	0.0	OFF	5306	0	0.00	0	54.6	54.6	54.6	
5-6 PM	5114	0.0	OFF	5114	0	0.00	0	55.9	55.9	55.9	
6-7 PM	4012	0.0	OFF	4012	0	0.00	0	63.5	63.5	63.5	
7-8 PM	2904	0.0	2999	2904	0	0.94	18	67.1	53.9	39.7	
8-9 PM	2386	0.0	3000	2386	0	0.33	0	67.8	62.4	49.7	
9-10 PM	2185	0.0	3000	2185	0	0.33	0	68.0	62.5	49.7	
10-11 PM	1721	0.0	3000	1721	0	0.34	0	68.6	62.9	49.7	
11PM-MID	1228	0.0	3000	1228	0	0.35	0	69.2	63.3	49.7	

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

----- 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

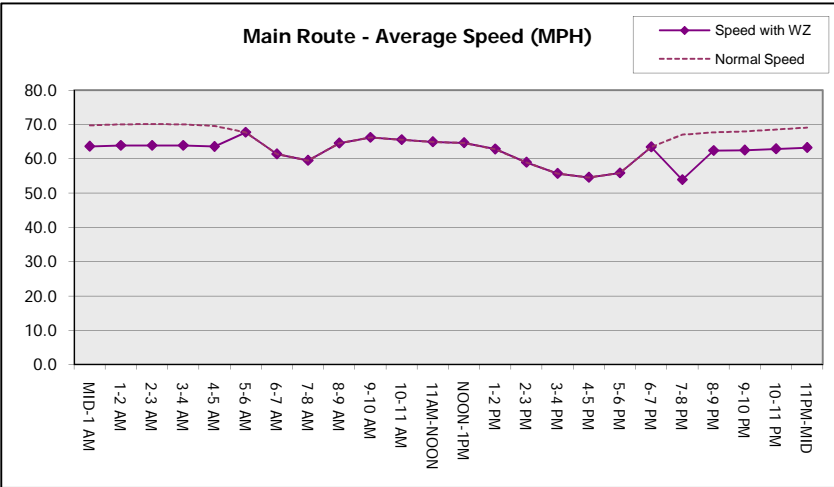
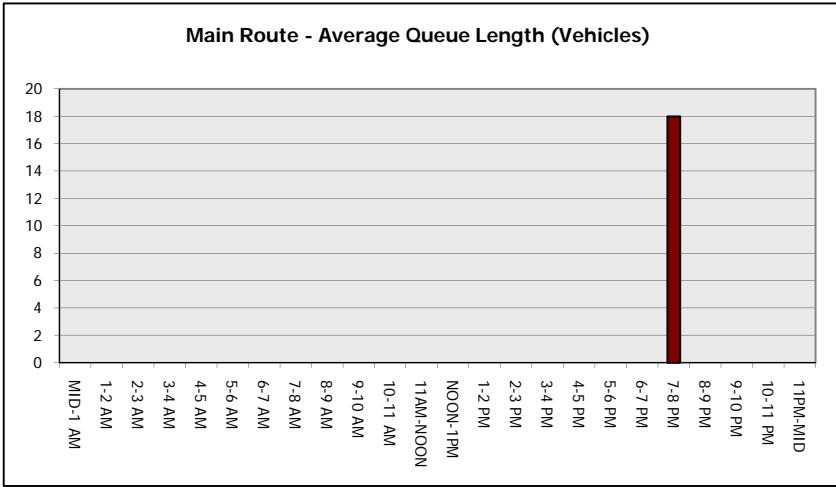
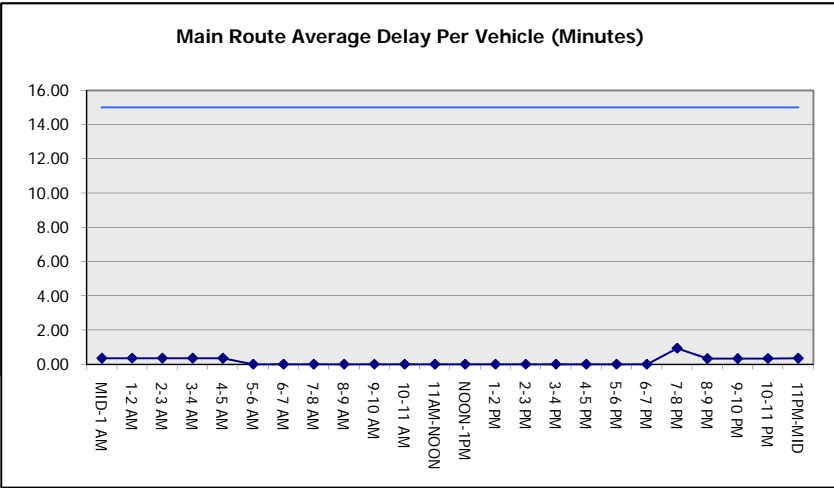
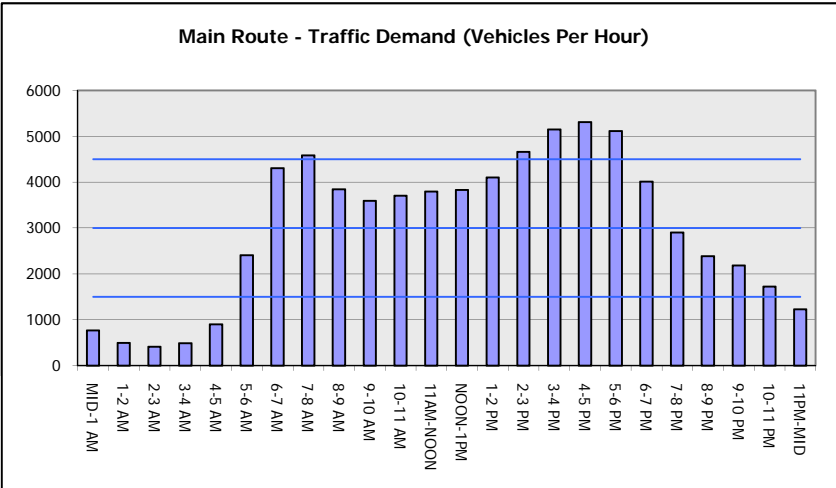
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0492
MAIN ROUTE WITH WORKS	0.0483
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,369
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	611	0.0	3000	611	0	0.36	0	70.0	63.8	49.7
1-2 AM	397	0.0	3000	397	0	0.36	0	70.2	63.9	49.7
2-3 AM	370	0.0	3000	370	0	0.36	0	70.2	63.9	49.7
3-4 AM	515	0.0	3000	515	0	0.36	0	70.1	63.9	49.7
4-5 AM	1106	0.0	3000	1106	0	0.35	0	69.4	63.4	49.7
5-6 AM	2661	0.0	OFF	2661	0	0.00	0	67.4	67.4	67.4
6-7 AM	4662	0.0	OFF	4662	0	0.00	0	59.0	59.0	59.0
7-8 AM	5458	0.0	OFF	5458	0	0.00	0	53.6	53.6	53.6
8-9 AM	4558	0.0	OFF	4558	0	0.00	0	59.7	59.7	59.7
9-10 AM	3691	0.0	OFF	3691	0	0.00	0	65.6	65.6	65.6
10-11 AM	3502	0.0	OFF	3502	0	0.00	0	66.4	66.4	66.4
11AM-NOON	3605	0.0	OFF	3605	0	0.00	0	66.2	66.2	66.2
NOON-1PM	3832	0.0	OFF	3832	0	0.00	0	64.6	64.6	64.6
1-2 PM	4037	0.0	OFF	4037	0	0.00	0	63.3	63.3	63.3
2-3 PM	4522	0.0	OFF	4522	0	0.00	0	60.0	60.0	60.0
3-4 PM	4952	0.0	OFF	4952	0	0.00	0	57.0	57.0	57.0
4-5 PM	5267	0.0	OFF	5267	0	0.00	0	54.9	54.9	54.9
5-6 PM	5413	0.0	OFF	5413	0	0.00	0	53.9	53.9	53.9
6-7 PM	4236	0.0	OFF	4236	0	0.00	0	61.9	61.9	61.9
7-8 PM	3123	0.0	2999	3123	0	2.62	107	66.9	39.8	37.3
8-9 PM	2774	0.0	2999	2774	0	1.40	50	67.3	49.2	40.0
9-10 PM	2365	0.0	3000	2365	0	0.33	0	67.8	62.4	49.7
10-11 PM	1631	0.0	3000	1631	0	0.34	0	68.7	63.0	49.7
11PM-MID	1183	0.0	3000	1183	0	0.35	0	69.2	63.3	49.7

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

----- 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	0.0510
MAIN ROUTE WITH WORKS	0.0500
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$3,215
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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