

IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) 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	2999	2409	0	0.47	0	67.8	60.3	44.8
6-7 AM	4307	0.0	2999	3813	494	8.12+	504	61.4	20.9	37.3
7-8 AM	4586	0.0	3000	2999	1587	14.79+	801	59.6	13.5	37.3
8-9 AM	3846	0.0	3000	3000	846	15.12+	801	64.6	13.5	37.3
9-10 AM	3594	0.0	3000	3000	594	15.22+	801	66.3	13.5	37.3
10-11 AM	3704	0.0	3000	3000	704	15.18+	801	65.6	13.5	37.3
11AM-NOON	3793	0.0	3000	3000	793	15.14+	801	65.0	13.5	37.3
NOON-1PM	3827	0.0	3000	3000	827	15.13+	801	64.7	13.5	37.3
1-2 PM	4103	0.0	3000	3000	1104	15.01+	801	62.8	13.5	37.3
2-3 PM	4663	0.0	2999	3000	1664	14.75+	801	59.0	13.5	37.3
3-4 PM	5146	0.0	3000	3000	2146	14.50+	801	55.7	13.5	37.3
4-5 PM	5306	0.0	3000	3000	2306	14.40+	801	54.6	13.5	37.3
5-6 PM	5114	0.0	3000	3000	2114	14.51+	801	55.9	13.5	37.3
6-7 PM	4012	0.0	3000	3000	1012	15.05+	801	63.5	13.5	37.3
7-8 PM	2904	0.0	3000	2850	54	14.65+	768	67.1	14.0	37.3
8-9 PM	2386	0.0	2999	2386	0	6.52	376	67.8	25.0	40.6
9-10 PM	2185	0.0	3000	2185	0	0.36	1	68.0	62.2	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

+ 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

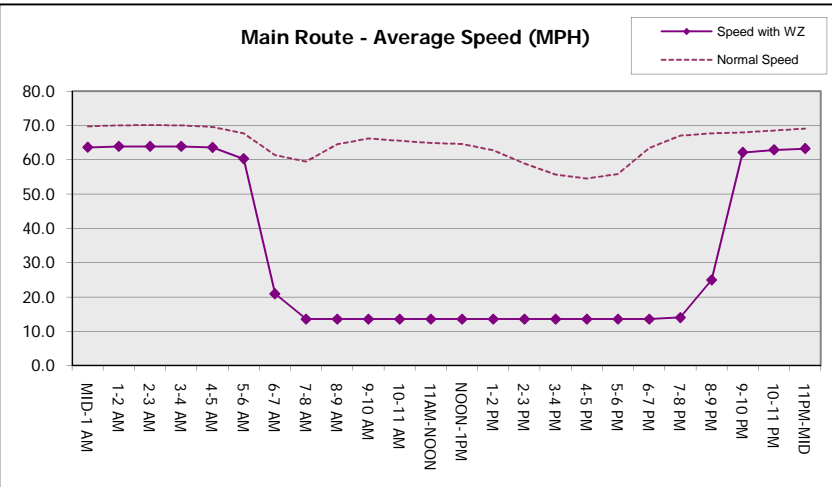
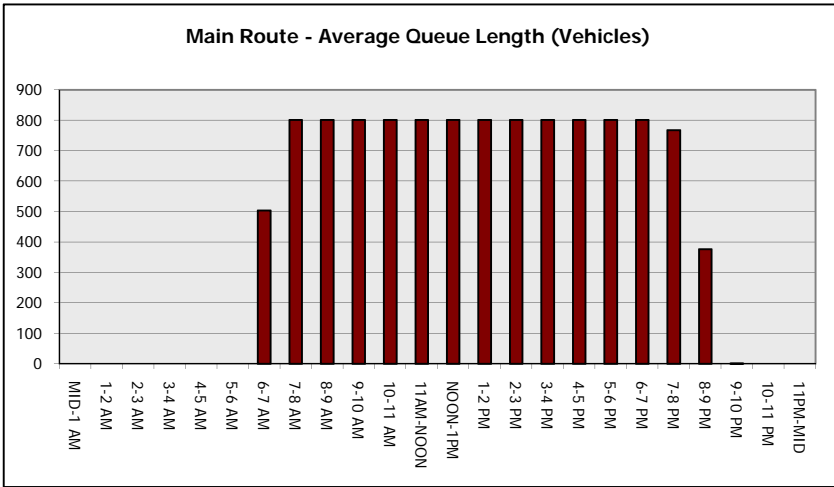
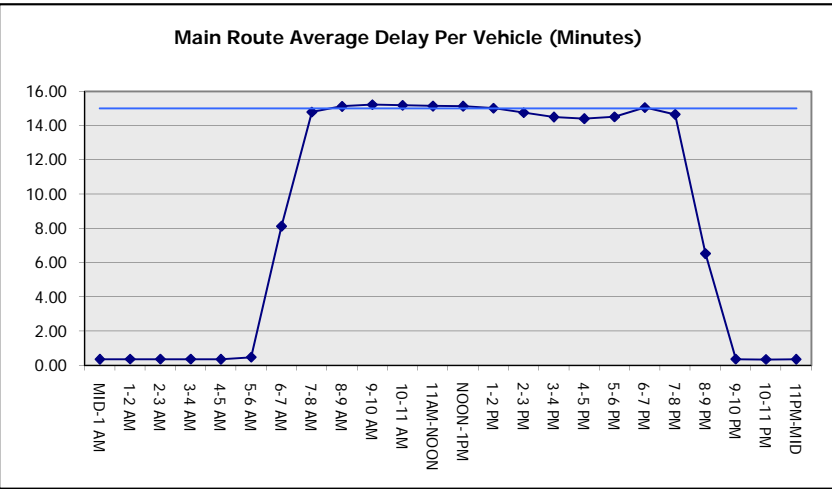
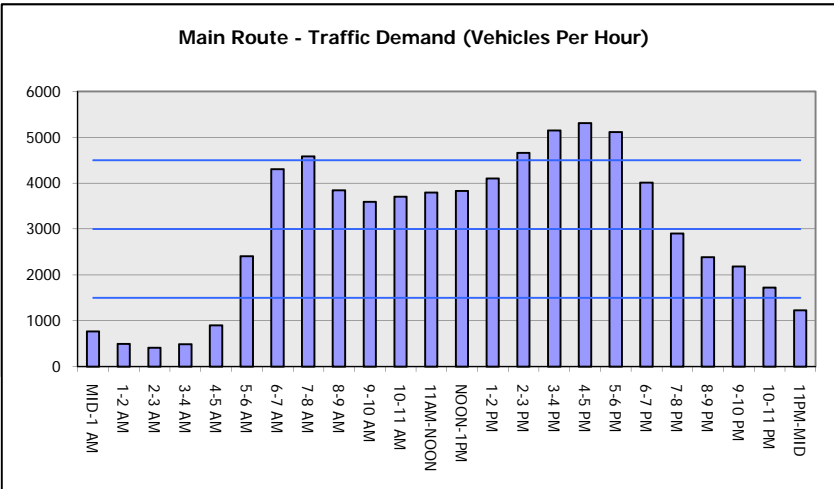
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0492
MAIN ROUTE WITH WORKS	0.0344
'DIVERSION'	0.0257
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$190,457
CONGESTED HOURS PER DAY*	14

*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	2999	2661	0	0.72	13	67.4	56.8	43.5
6-7 AM	4662	0.0	3000	3657	1005	9.89+	591	59.0	18.1	37.3
7-8 AM	5458	0.0	2999	3000	2458	14.31+	801	53.6	13.5	37.3
8-9 AM	4558	0.0	3000	3003	1555	14.80+	801	59.7	13.5	37.3
9-10 AM	3691	0.0	3000	3042	650	15.10+	796	65.6	13.6	37.3
10-11 AM	3502	0.0	2999	3000	502	15.23+	801	66.4	13.5	37.3
11AM-NOON	3605	0.0	3000	3000	605	15.22+	801	66.2	13.5	37.3
NOON-1PM	3832	0.0	3000	3001	832	15.13+	801	64.6	13.5	37.3
1-2 PM	4037	0.0	3000	3002	1036	15.04+	801	63.3	13.5	37.3
2-3 PM	4522	0.0	3000	3002	1520	14.82+	801	60.0	13.5	37.3
3-4 PM	4952	0.0	3000	3000	1952	14.60+	801	57.0	13.5	37.3
4-5 PM	5267	0.0	3000	3000	2267	14.42+	801	54.9	13.5	37.3
5-6 PM	5413	0.0	3000	3000	2413	14.34+	801	53.9	13.5	37.3
6-7 PM	4236	0.0	3000	3002	1234	14.95+	801	61.9	13.5	37.3
7-8 PM	3123	0.0	3000	2971	153	14.76+	774	66.9	13.8	37.3
8-9 PM	2774	0.0	2999	2774	0	12.34	643	67.3	16.0	37.3
9-10 PM	2365	0.0	2999	2365	0	3.53	235	67.8	35.1	43.4
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

+ 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	0.0510
MAIN ROUTE WITH WORKS	0.0348
'DIVERSION'	0.0288

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$203,189
CONGESTED HOURS PER DAY*	14

*Delays Exceeding User-Specified Maximum

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