

<b>IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>MAY</b>
	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	631	0.0	1500	631	0	0.55	0	69.9	60.9	43.0	
1-2 AM	396	0.0	1500	396	0	0.52	0	70.2	61.5	43.9	
2-3 AM	366	0.0	1500	366	0	0.52	0	70.2	61.5	44.0	
3-4 AM	455	0.0	1500	455	0	0.53	0	70.2	61.4	43.7	
4-5 AM	843	0.0	1500	843	0	0.57	0	69.7	60.4	42.2	
5-6 AM	2338	0.0	1499	1915	423	8.25+	238	67.8	21.4	30.8	
6-7 AM	4192	0.0	1500	1500	2692	15.98+	400	62.2	12.8	30.8	
7-8 AM	4389	0.0	1500	1500	2889	15.88+	400	60.9	12.8	30.8	
8-9 AM	3809	0.0	1500	1500	2309	16.14+	400	64.8	12.8	30.8	
9-10 AM	3292	0.0	1500	1500	1792	16.25+	400	66.6	12.8	30.8	
10-11 AM	3336	0.0	1500	1500	1836	16.25+	400	66.6	12.8	30.8	
11AM-NOON	3368	0.0	1500	1500	1868	16.25+	400	66.6	12.8	30.8	
NOON-1PM	3489	0.0	1500	1500	1989	16.24+	400	66.4	12.8	30.8	
1-2 PM	3698	0.0	1500	1500	2198	16.19+	400	65.6	12.8	30.8	
2-3 PM	4457	0.0	1500	1500	2957	15.85+	400	60.4	12.8	30.8	
3-4 PM	5109	0.0	1500	1500	3609	15.51+	400	56.0	12.8	30.8	
4-5 PM	5091	0.0	1500	1500	3591	15.52+	400	56.1	12.8	30.8	
5-6 PM	5002	0.0	1500	1500	3502	15.57+	400	56.7	12.8	30.8	
6-7 PM	3651	0.0	1500	1500	2151	16.21+	400	65.9	12.8	30.8	
7-8 PM	2668	0.0	1500	1500	1168	16.30+	400	67.4	12.8	30.8	
8-9 PM	2239	0.0	1500	1500	739	16.33+	400	67.9	12.8	30.8	
9-10 PM	2124	0.0	1500	1500	624	16.33+	400	68.1	12.8	30.8	
10-11 PM	1547	0.0	1500	1449	98	16.15+	394	68.8	13.0	30.8	
11PM-MID	993	0.0	1499	993	0	4.26	155	69.5	32.4	37.2	

+ 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

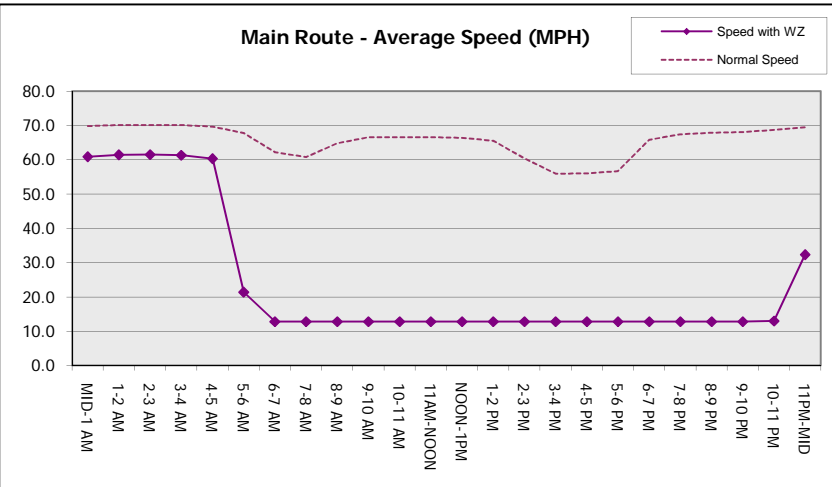
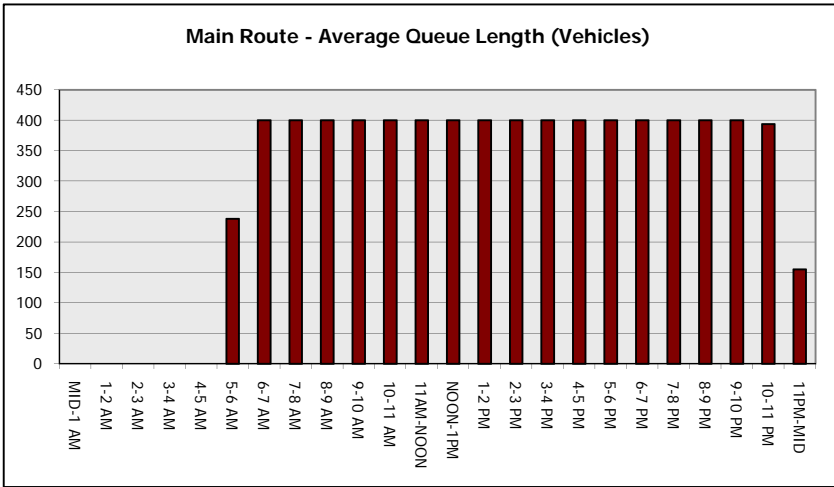
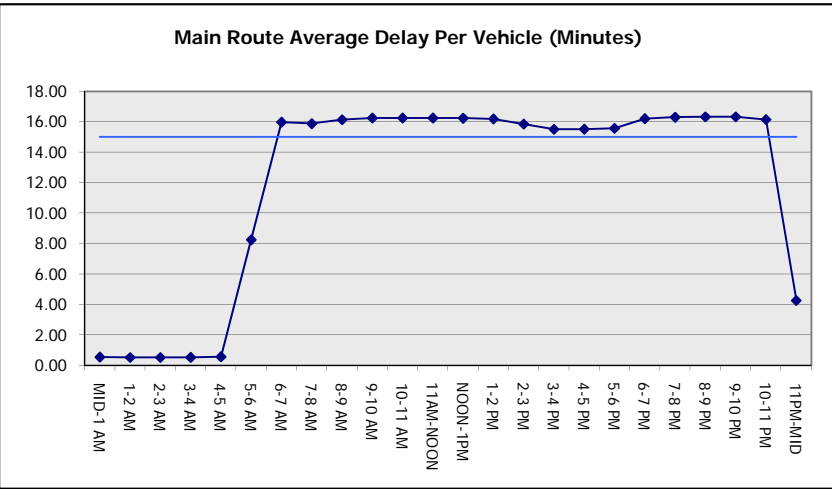
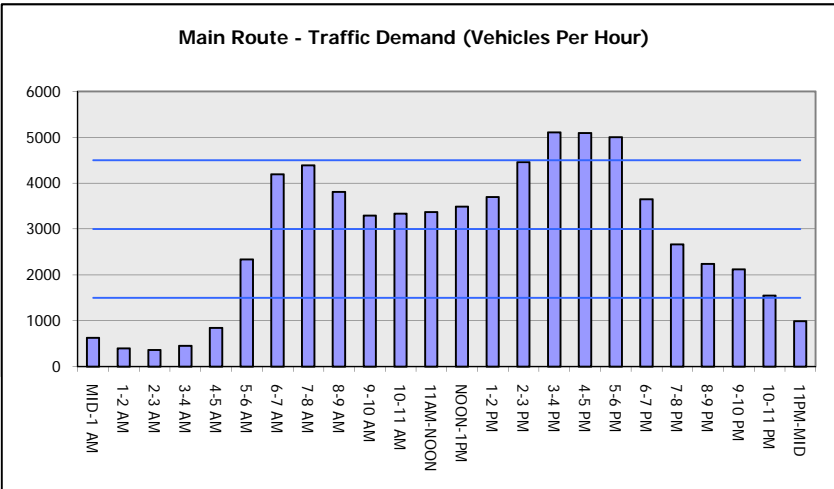
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0462
MAIN ROUTE WITH WORKS	0.0192
'DIVERSION'	0.0577
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$219,093
CONGESTED HOURS PER DAY*	18

\*Delays Exceeding User-Specified Maximum

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NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
Analyzed for 2009  
Construction Season

**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	519	0.0	1500	519	0	0.53	0	70.1	61.2	43.4
1-2 AM	348	0.0	1500	348	0	0.51	0	70.2	61.5	44.1
2-3 AM	335	0.0	1500	335	0	0.51	0	70.2	61.5	44.2
3-4 AM	476	0.0	1500	476	0	0.53	0	70.1	61.3	43.6
4-5 AM	996	0.0	1499	996	0	0.67	0	69.5	58.9	39.6
5-6 AM	2602	0.0	1499	1817	785	10.31+	279	67.5	18.3	31.4
6-7 AM	4742	0.0	1500	1500	3242	15.64+	400	58.4	12.9	31.9
7-8 AM	5378	0.0	1500	1500	3878	15.28+	400	54.1	12.9	31.9
8-9 AM	4293	0.0	1500	1500	2793	15.86+	400	61.5	12.9	31.9
9-10 AM	3395	0.0	1500	1500	1895	16.17+	400	66.5	12.9	31.9
10-11 AM	3217	0.0	1500	1500	1717	16.19+	400	66.8	12.9	31.9
11AM-NOON	3371	0.0	1500	1500	1871	16.17+	400	66.6	12.9	31.9
NOON-1PM	3557	0.0	1500	1500	2057	16.16+	400	66.3	12.9	31.9
1-2 PM	3748	0.0	1500	1500	2248	16.10+	400	65.3	12.9	31.9
2-3 PM	4305	0.0	1500	1500	2805	15.85+	400	61.4	12.9	31.9
3-4 PM	4686	0.0	1500	1500	3186	15.67+	400	58.9	12.9	31.9
4-5 PM	5020	0.0	1500	1500	3520	15.49+	400	56.6	12.9	31.9
5-6 PM	5241	0.0	1500	1500	3741	15.37+	400	55.1	12.9	31.9
6-7 PM	3891	0.0	1500	1500	2391	16.04+	400	64.3	12.9	31.9
7-8 PM	2902	0.0	1500	1500	1402	16.21+	400	67.1	12.9	31.9
8-9 PM	2588	0.0	1500	1500	1088	16.23+	400	67.5	12.9	31.9
9-10 PM	2199	0.0	1500	1546	653	16.10+	395	68.0	13.0	31.4
10-11 PM	1531	0.0	1500	1474	57	15.55+	379	68.8	13.4	30.8
11PM-MID	1034	0.0	1499	1034	0	4.26	149	69.4	32.4	36.8

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0482
MAIN ROUTE WITH WORKS	0.0192
'DIVERSION'	0.0623

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$227,651
CONGESTED HOURS PER DAY*	18

\*Delays Exceeding User-Specified Maximum

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**MON-THUR NORTHBOUND DIRECTION**

