

<b>USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	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	881	0.0	2000	881	0	0.57	0	69.6	52.8	42.1
1-2 AM	511	0.0	2000	511	0	0.53	0	70.1	54.0	43.5
2-3 AM	460	0.0	2000	460	0	0.53	0	70.2	54.2	43.7
3-4 AM	378	0.0	2000	378	0	0.52	0	70.2	54.5	44.0
4-5 AM	469	0.0	2000	469	0	0.53	0	70.2	54.2	43.7
5-6 AM	937	0.0	2000	937	0	0.58	0	69.6	52.7	41.9
6-7 AM	1626	0.0	1999	1626	0	1.17	0	68.7	41.9	29.7
7-8 AM	2210	0.0	1999	2210	0	2.85	71	68.0	26.8	27.9
8-9 AM	2707	0.0	2000	2297	410	13.67+	457	67.4	9.4	27.9
9-10 AM	3411	0.0	2000	2050	1361	17.36+	572	66.5	8.3	27.9
10-11 AM	4104	0.0	1999	2000	2104	17.44+	580	62.8	8.3	27.9
11AM-NOON	4571	0.0	2000	2000	2571	17.30+	580	59.6	8.3	27.9
NOON-1PM	4857	0.0	2000	2000	2857	17.20+	580	57.7	8.3	27.9
1-2 PM	4498	0.0	2000	2000	2498	17.32+	580	60.1	8.3	27.9
2-3 PM	4535	0.0	2000	2000	2535	17.31+	580	59.9	8.3	27.9
3-4 PM	4537	0.0	2000	2000	2537	17.31+	580	59.9	8.3	27.9
4-5 PM	4318	0.0	2000	2000	2318	17.38+	580	61.4	8.3	27.9
5-6 PM	3958	0.0	2000	2000	1958	17.48+	580	63.8	8.3	27.9
6-7 PM	3317	0.0	2000	2009	1308	17.28+	569	66.6	8.3	27.9
7-8 PM	2754	0.0	2000	1999	755	17.11+	562	67.3	8.4	27.9
8-9 PM	2385	0.0	2000	1999	385	17.10+	561	67.8	8.4	27.9
9-10 PM	2086	0.0	2000	1996	90	17.08+	560	68.1	8.4	27.9
10-11 PM	1875	0.0	1999	1875	0	15.86+	518	68.4	8.7	27.9
11PM-MID	1476	0.0	1999	1476	0	4.89	211	68.9	19.3	29.6

+ 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

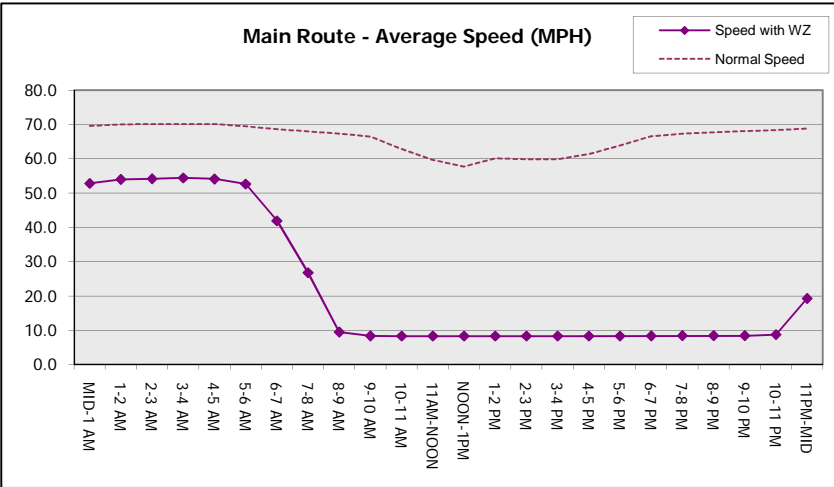
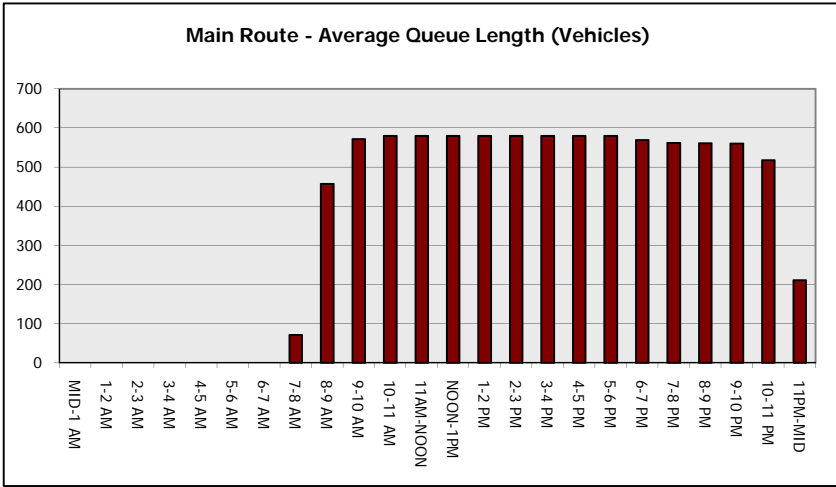
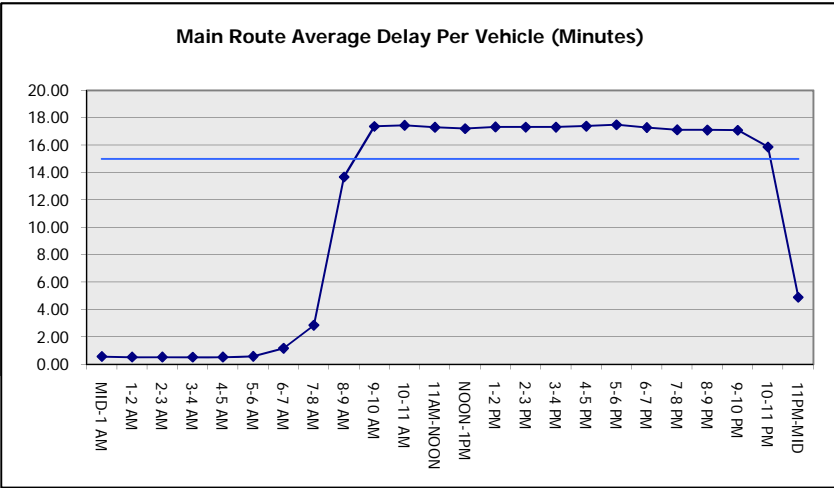
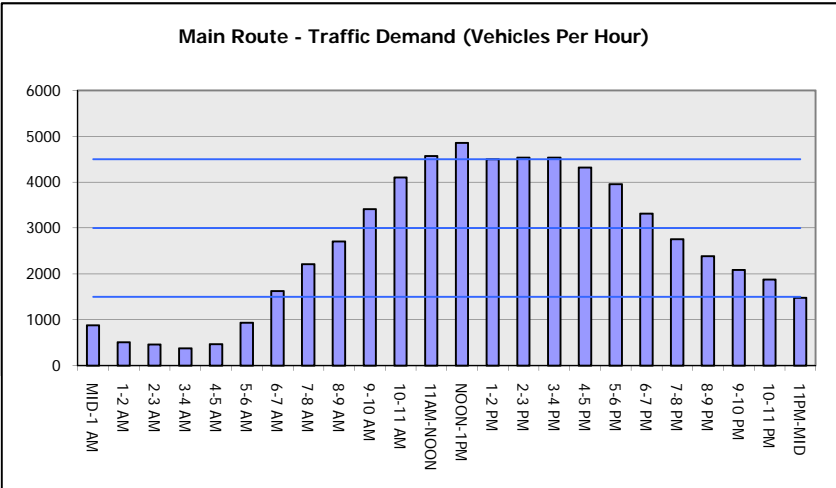
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0210
MAIN ROUTE WITH WORKS	0.0105
'DIVERSION'	0.0183
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$258,207
CONGESTED HOURS PER DAY*	15

\*Delays Exceeding User-Specified Maximum

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**AUGUST**  
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Construction Season

**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	1391	0.0	1999	1391	0	5.95	272	69.0	17.1	30.2
1-2 AM	926	0.0	2000	926	0	0.58	0	69.6	52.7	41.9
2-3 AM	845	0.0	2000	845	0	0.57	0	69.7	53.0	42.2
3-4 AM	641	0.0	2000	641	0	0.55	0	69.9	53.6	43.0
4-5 AM	856	0.0	2000	856	0	0.57	0	69.7	52.9	42.2
5-6 AM	1294	0.0	1999	1294	0	0.82	0	69.1	47.7	36.1
6-7 AM	1948	0.0	1999	1948	0	1.63	13	68.3	36.2	27.9
7-8 AM	2580	0.0	2000	2580	0	8.69+	310	67.5	12.9	27.9
8-9 AM	3050	0.0	1999	1960	1090	17.26+	568	66.9	8.3	27.9
9-10 AM	3439	0.0	1999	1982	1457	17.40+	574	66.4	8.3	27.9
10-11 AM	3806	0.0	1999	2000	1806	17.52+	580	64.8	8.3	27.9
11AM-NOON	4266	0.0	2000	2000	2266	17.39+	580	61.7	8.3	27.9
NOON-1PM	4517	0.0	2000	2000	2517	17.31+	580	60.0	8.3	27.9
1-2 PM	4468	0.0	2000	2000	2468	17.33+	580	60.4	8.3	27.9
2-3 PM	4534	0.0	2000	2000	2534	17.31+	580	59.9	8.3	27.9
3-4 PM	4516	0.0	2000	2000	2516	17.31+	580	60.0	8.3	27.9
4-5 PM	4113	0.0	2000	2000	2113	17.44+	580	62.8	8.3	27.9
5-6 PM	3837	0.0	2000	2000	1837	17.51+	580	64.6	8.3	27.9
6-7 PM	3242	0.0	2000	1993	1249	17.24+	567	66.7	8.3	27.9
7-8 PM	2808	0.0	2000	1999	810	17.11+	562	67.3	8.4	27.9
8-9 PM	2806	0.0	1999	1999	807	17.11+	562	67.3	8.4	27.9
9-10 PM	2910	0.0	1999	1999	911	17.12+	562	67.1	8.3	27.9
10-11 PM	2612	0.0	2000	1999	613	17.11+	562	67.5	8.4	27.9
11PM-MID	2095	0.0	2000	1971	124	16.96+	556	68.1	8.4	27.9

+ 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	0.0226
MAIN ROUTE WITH WORKS	0.0114
'DIVERSION'	0.0194

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$281,814
CONGESTED HOURS PER DAY*	17

\*Delays Exceeding User-Specified Maximum

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