

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	533	0.0	OFF	533	0	0.00	0	70.0	70.0	70.0
1-2 AM	725	0.0	OFF	725	0	0.00	0	69.8	69.8	69.8
2-3 AM	1769	0.0	OFF	1769	0	0.00	0	68.6	68.6	68.6
3-4 AM	3182	0.0	OFF	3182	0	0.00	0	66.8	66.8	66.8
4-5 AM	3611	0.0	OFF	3611	0	0.00	0	66.2	66.2	66.2
5-6 AM	4276	0.0	OFF	4276	0	0.00	0	61.7	61.7	61.7
6-7 AM	5061	0.0	OFF	5061	0	0.00	0	56.3	56.3	56.3
7-8 AM	5066	0.0	OFF	5066	0	0.00	0	56.3	56.3	56.3
8-9 AM	4585	0.0	OFF	4585	0	0.00	0	59.6	59.6	59.6
9-10 AM	4165	0.0	OFF	4165	0	0.00	0	62.4	62.4	62.4
10-11 AM	4307	0.0	1999	2106	2201	17.00+	579	61.4	8.4	34.7
11AM-NOON	4919	0.0	1999	2331	2588	15.56+	543	57.3	8.8	29.2
NOON-1PM	4797	0.0	1999	2013	2784	17.18+	578	58.1	8.3	27.9
1-2 PM	4519	0.0	2000	2021	2498	17.25+	578	60.0	8.3	27.9
2-3 PM	4784	0.0	1999	2000	2784	17.23+	580	58.2	8.3	27.9
3-4 PM	4474	0.0	OFF	4474	0	0.85	72	60.3	42.9	42.9
4-5 PM	3619	0.0	OFF	3619	0	0.00	0	66.1	66.1	66.1
5-6 PM	3233	0.0	OFF	3233	0	0.00	0	66.7	66.7	66.7
6-7 PM	2613	0.0	OFF	2613	0	0.00	0	67.5	67.5	67.5
7-8 PM	2008	0.0	OFF	2008	0	0.00	0	68.2	68.2	68.2
8-9 PM	1510	0.0	OFF	1510	0	0.00	0	68.9	68.9	68.9
9-10 PM	1108	0.0	OFF	1108	0	0.00	0	69.4	69.4	69.4
10-11 PM	878	0.0	OFF	878	0	0.00	0	69.6	69.6	69.6
11PM-MID	616	0.0	OFF	616	0	0.00	0	70.0	70.0	70.0

"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

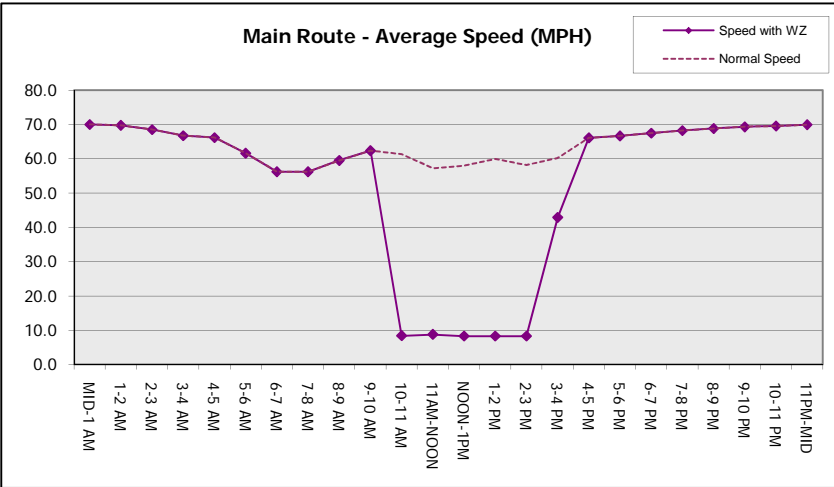
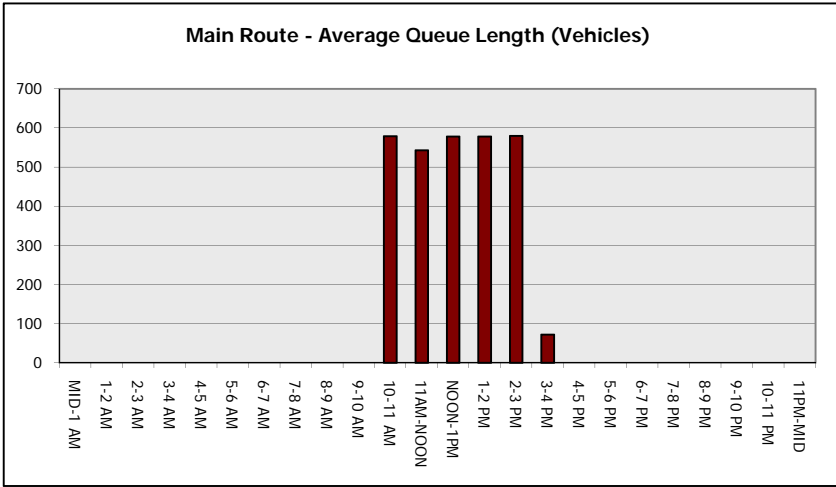
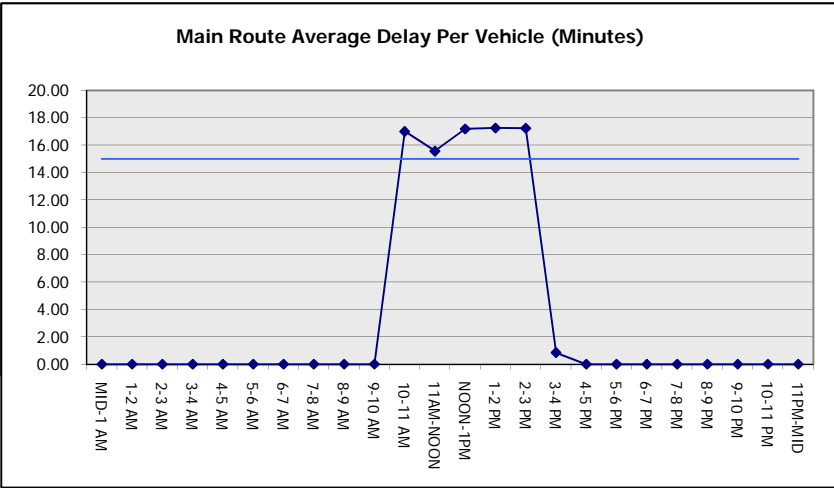
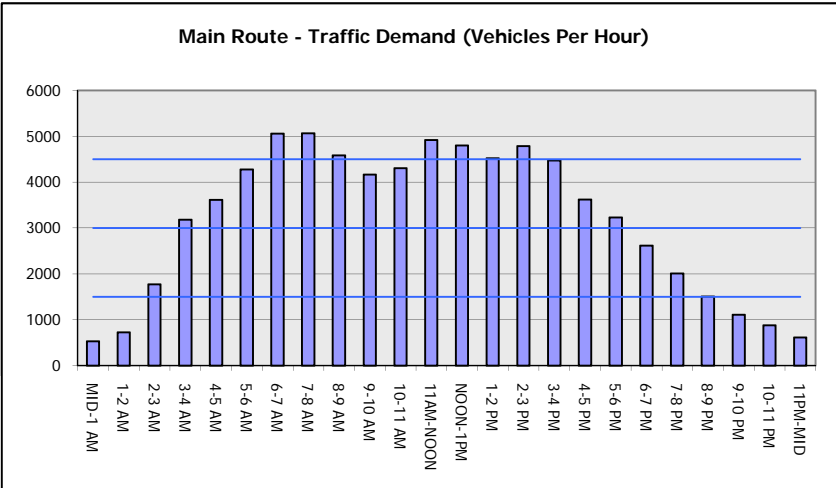
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0255
MAIN ROUTE WITH WORKS	0.0205
'DIVERSION'	0.0100
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$86,188
CONGESTED HOURS PER DAY*	5

*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	1312	0.0	OFF	1312	0	0.00	0	69.1	69.1	69.1
1-2 AM	1657	0.0	OFF	1657	0	0.00	0	68.7	68.7	68.7
2-3 AM	2750	0.0	OFF	2750	0	0.00	0	67.3	67.3	67.3
3-4 AM	3791	0.0	OFF	3791	0	0.00	0	65.0	65.0	65.0
4-5 AM	4485	0.0	OFF	4485	0	0.00	0	60.2	60.2	60.2
5-6 AM	4832	0.0	OFF	4832	0	0.00	0	57.8	57.8	57.8
6-7 AM	5201	0.0	OFF	5201	0	0.00	0	55.3	55.3	55.3
7-8 AM	5243	0.0	OFF	5243	0	0.00	0	55.0	55.0	55.0
8-9 AM	4727	0.0	OFF	4727	0	0.00	0	58.6	58.6	58.6
9-10 AM	4493	0.0	OFF	4493	0	0.00	0	60.2	60.2	60.2
10-11 AM	4714	0.0	1999	2123	2591	17.22+	592	58.6	8.3	34.5
11AM-NOON	5189	0.0	1999	2438	2751	15.73+	547	55.4	8.7	28.4
NOON-1PM	5662	0.0	1999	2000	3662	16.90+	580	52.2	8.3	27.9
1-2 PM	5892	0.0	2000	2000	3892	16.80+	580	50.6	8.3	27.9
2-3 PM	5856	0.0	2000	2000	3856	16.82+	580	50.9	8.3	27.9
3-4 PM	5075	0.0	OFF	5075	0	1.87	170	56.2	30.7	30.7
4-5 PM	4686	0.0	OFF	4686	0	0.00	0	58.9	58.9	58.9
5-6 PM	4294	0.0	OFF	4294	0	0.00	0	61.5	61.5	61.5
6-7 PM	3538	0.0	OFF	3538	0	0.00	0	66.3	66.3	66.3
7-8 PM	2855	0.0	OFF	2855	0	0.00	0	67.2	67.2	67.2
8-9 PM	2356	0.0	OFF	2356	0	0.00	0	67.8	67.8	67.8
9-10 PM	2124	0.0	OFF	2124	0	0.00	0	68.1	68.1	68.1
10-11 PM	1688	0.0	OFF	1688	0	0.00	0	68.6	68.6	68.6
11PM-MID	1447	0.0	OFF	1447	0	0.00	0	68.9	68.9	68.9

"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	0.0314
MAIN ROUTE WITH WORKS	0.0251
'DIVERSION'	0.0130

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$101,215
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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