

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) OFF-PEAK DAY 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	2999	3933	374	9.77+	574	61.4	13.2	37.3
11AM-NOON	4919	0.0	2999	3000	1919	17.49+	953	57.3	10.0	37.3
NOON-1PM	4797	0.0	3000	3002	1795	17.54+	953	58.1	10.0	37.3
1-2 PM	4519	0.0	3000	3006	1514	17.42+	940	60.0	10.1	37.3
2-3 PM	4784	0.0	2999	3000	1784	17.55+	953	58.2	10.0	37.3
3-4 PM	4474	0.0	OFF	4474	0	3.15	290	60.3	24.0	24.0
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

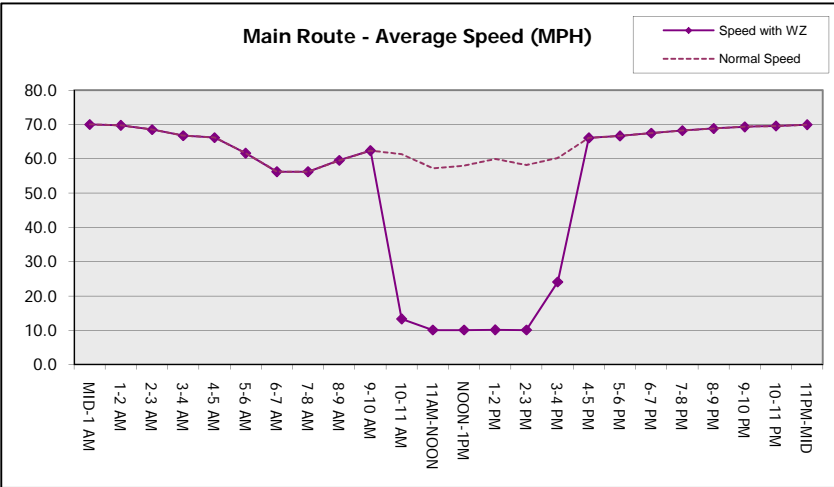
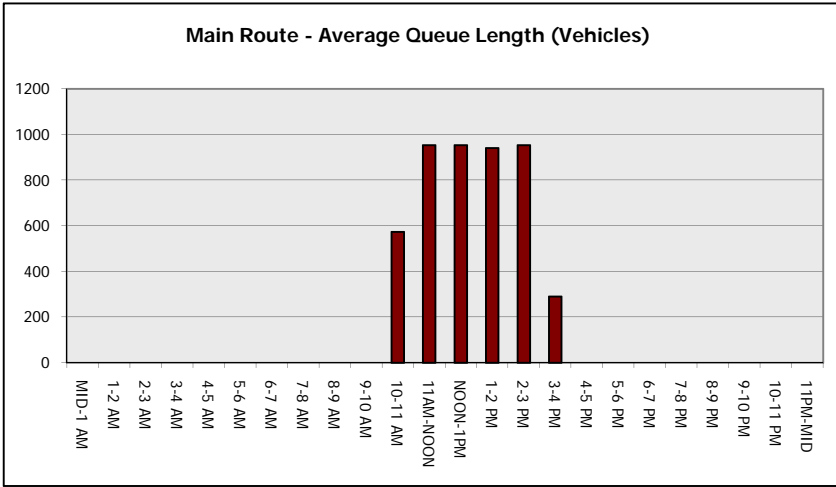
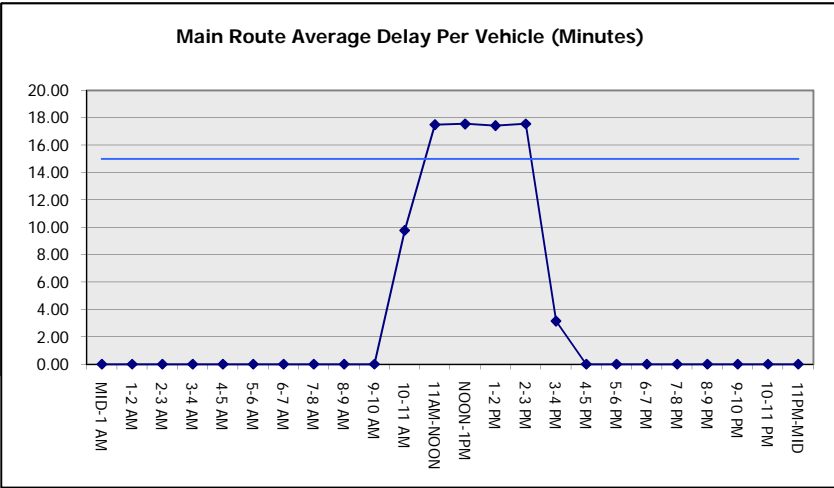
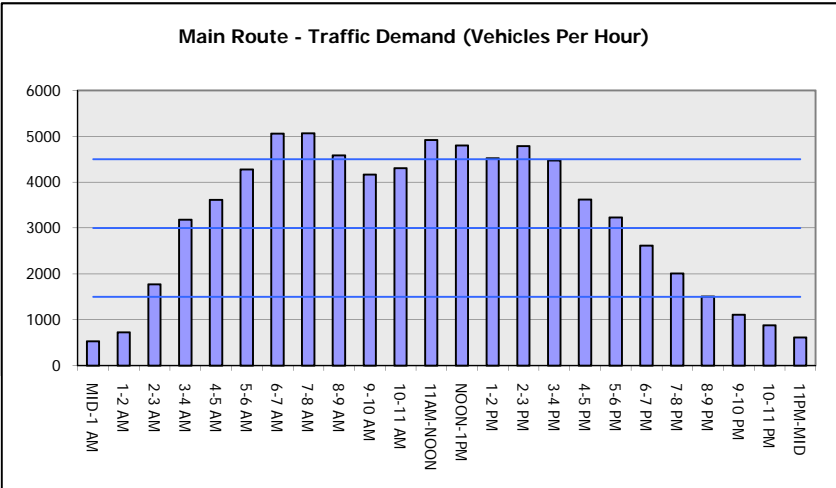
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0255
MAIN ROUTE WITH WORKS	0.0220
'DIVERSION'	0.0057
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$82,314
CONGESTED HOURS PER DAY*	5

*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	2999	3919	795	11.59+	665	58.6	12.0	37.3
11AM-NOON	5189	0.0	2999	3000	2189	17.37+	953	55.4	10.0	37.3
NOON-1PM	5662	0.0	3000	3000	2662	17.13+	953	52.2	10.0	37.3
1-2 PM	5892	0.0	3000	3000	2892	17.01+	953	50.6	10.0	37.3
2-3 PM	5856	0.0	3000	3000	2856	17.03+	953	50.9	10.0	37.3
3-4 PM	5075	0.0	OFF	5075	0	4.85	456	56.2	17.8	17.8
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	0.0265
'DIVERSION'	0.0088

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$98,670
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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