

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) NIGHTTIME 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	2000	533	0	0.54	0	70.0	54.0	43.4	
1-2 AM	725	0.0	2000	725	0	0.56	0	69.8	53.3	42.7	
2-3 AM	1769	0.0	1999	1769	0	1.39	9	68.6	39.0	29.7	
3-4 AM	3182	0.0	2000	2510	672	12.16+	423	66.8	10.2	27.9	
4-5 AM	3611	0.0	2000	2018	1593	17.47+	576	66.2	8.3	27.9	
5-6 AM	4276	0.0	OFF	4276	0	1.07	92	61.7	40.5	40.5	
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	OFF	4307	0	0.00	0	61.4	61.4	61.4	
11AM-NOON	4919	0.0	OFF	4919	0	0.00	0	57.3	57.3	57.3	
NOON-1PM	4797	0.0	OFF	4797	0	0.00	0	58.1	58.1	58.1	
1-2 PM	4519	0.0	OFF	4519	0	0.00	0	60.0	60.0	60.0	
2-3 PM	4784	0.0	OFF	4784	0	0.00	0	58.2	58.2	58.2	
3-4 PM	4474	0.0	OFF	4474	0	0.00	0	60.3	60.3	60.3	
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	1999	2008	0	2.37	38	68.2	29.9	27.9	
8-9 PM	1510	0.0	2000	1510	0	1.11	0	68.9	42.9	30.7	
9-10 PM	1108	0.0	2000	1108	0	0.60	0	69.4	52.2	41.3	
10-11 PM	878	0.0	2000	878	0	0.57	0	69.6	52.8	42.1	
11PM-MID	616	0.0	2000	616	0	0.55	0	70.0	53.7	43.1	

"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

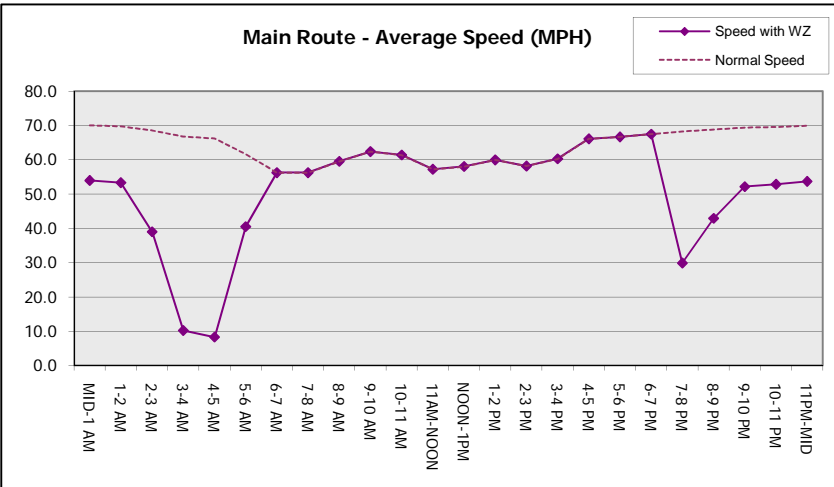
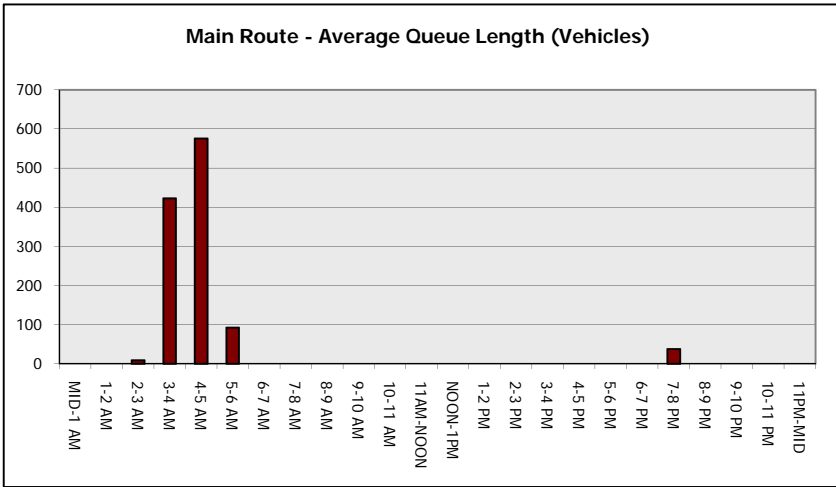
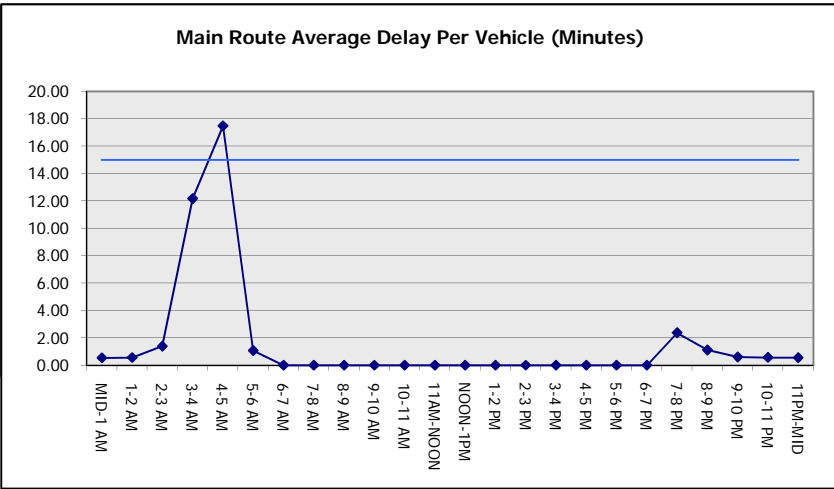
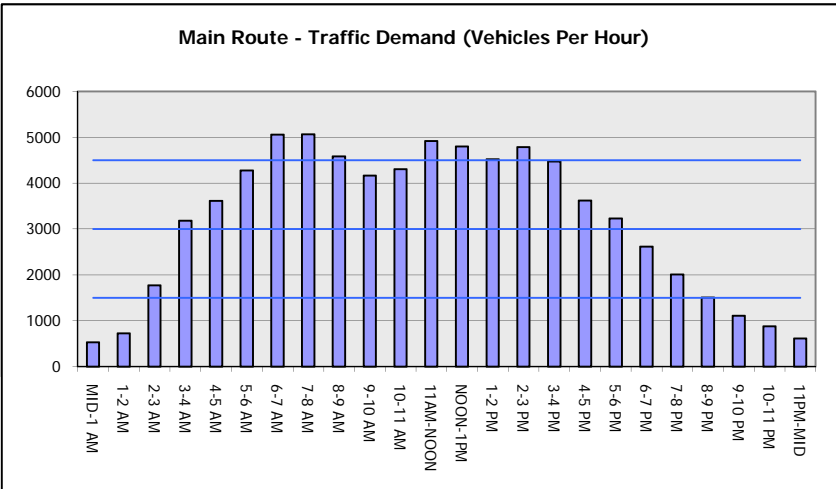
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0255
MAIN ROUTE WITH WORKS	0.0239
'DIVERSION'	0.0018
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$22,971
CONGESTED HOURS PER DAY*	2

*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	2000	1312	0	0.85	0	69.1	47.1	35.1
1-2 AM	1657	0.0	1999	1657	0	1.18	0	68.7	41.9	29.6
2-3 AM	2750	0.0	1999	2750	0	7.84+	308	67.3	14.2	27.9
3-4 AM	3791	0.0	2000	1858	1933	17.26+	571	65.0	8.3	27.9
4-5 AM	4485	0.0	1999	2000	2485	17.32+	580	60.2	8.3	27.9
5-6 AM	4832	0.0	OFF	4832	0	1.75	158	57.8	32.1	32.1
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	OFF	4714	0	0.00	0	58.6	58.6	58.6
11AM-NOON	5189	0.0	OFF	5189	0	0.00	0	55.4	55.4	55.4
NOON-1PM	5662	0.0	OFF	5662	0	0.00	0	52.2	52.2	52.2
1-2 PM	5892	0.0	OFF	5892	0	0.00	0	50.6	50.6	50.6
2-3 PM	5856	0.0	OFF	5856	0	0.00	0	50.9	50.9	50.9
3-4 PM	5075	0.0	OFF	5075	0	0.00	0	56.2	56.2	56.2
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	1999	2508	346	11.82+	406	67.2	10.4	27.9
8-9 PM	2356	0.0	2000	2034	323	17.00+	557	67.8	8.4	27.9
9-10 PM	2124	0.0	2000	2022	102	16.99+	557	68.1	8.4	27.9
10-11 PM	1688	0.0	1999	1688	0	13.13+	429	68.6	9.6	27.9
11PM-MID	1447	0.0	2000	1447	0	2.06	62	68.9	32.4	30.5

"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	0.0284
'DIVERSION'	0.0040

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$60,872
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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