

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	481	0.0	3000	481	0	0.36	0	70.1	58.4	49.7	
1-2 AM	324	0.0	3000	324	0	0.36	0	70.2	58.5	49.7	
2-3 AM	301	0.0	3000	301	0	0.36	0	70.2	58.5	49.7	
3-4 AM	336	0.0	3000	336	0	0.36	0	70.2	58.5	49.7	
4-5 AM	813	0.0	3000	813	0	0.35	0	69.7	58.3	49.7	
5-6 AM	2265	0.0	OFF	2265	0	0.00	0	67.9	67.9	67.9	
6-7 AM	4721	0.0	OFF	4721	0	0.00	0	58.6	58.6	58.6	
7-8 AM	5771	0.0	OFF	5771	0	0.00	0	51.4	51.4	51.4	
8-9 AM	5316	0.0	OFF	5316	0	0.00	0	54.5	54.5	54.5	
9-10 AM	4655	0.0	OFF	4655	0	0.00	0	59.1	59.1	59.1	
10-11 AM	4691	0.0	OFF	4691	0	0.00	0	58.8	58.8	58.8	
11AM-NOON	4882	0.0	OFF	4882	0	0.00	0	57.5	57.5	57.5	
NOON-1PM	4969	0.0	OFF	4969	0	0.00	0	56.9	56.9	56.9	
1-2 PM	5002	0.0	OFF	5002	0	0.00	0	56.7	56.7	56.7	
2-3 PM	5338	0.0	OFF	5338	0	0.00	0	54.4	54.4	54.4	
3-4 PM	4390	0.0	OFF	4390	0	0.00	0	60.9	60.9	60.9	
4-5 PM	3607	0.0	OFF	3607	0	0.00	0	66.2	66.2	66.2	
5-6 PM	3916	0.0	OFF	3916	0	0.00	0	64.1	64.1	64.1	
6-7 PM	4425	0.0	OFF	4425	0	0.00	0	60.6	60.6	60.6	
7-8 PM	3414	0.0	2999	3414	0	5.06	263	66.5	18.8	37.3	
8-9 PM	2622	0.0	2999	2622	0	4.85	259	67.5	19.4	39.5	
9-10 PM	2324	0.0	3000	2324	0	0.35	1	67.9	57.0	49.4	
10-11 PM	1978	0.0	3000	1978	0	0.34	0	68.2	57.8	49.7	
11PM-MID	1588	0.0	3000	1588	0	0.34	0	68.7	57.9	49.7	

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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

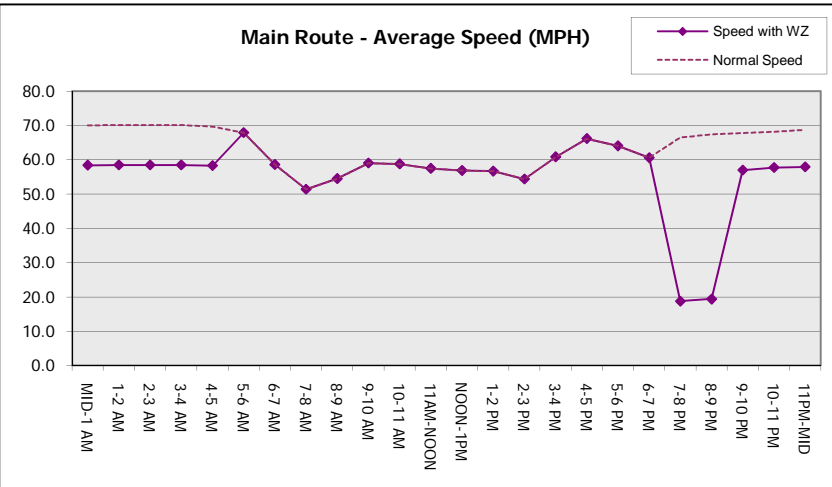
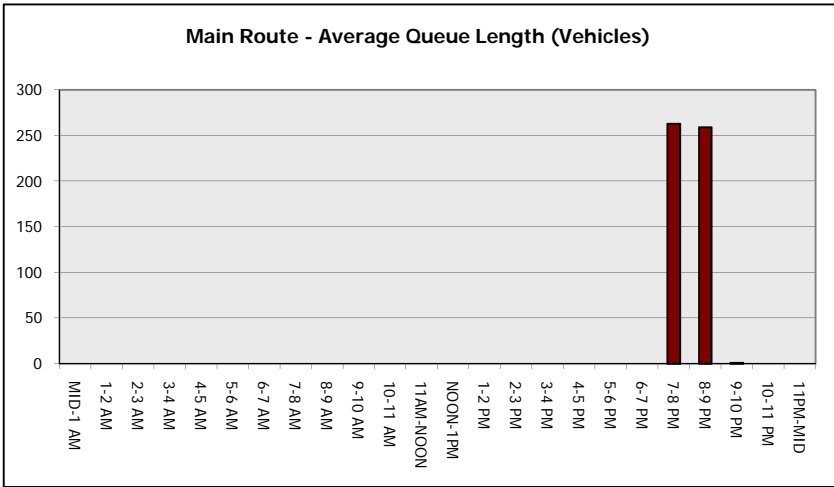
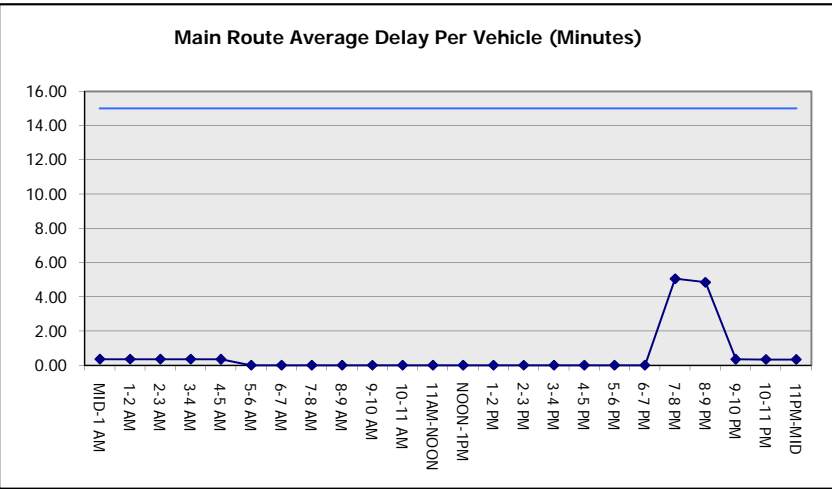
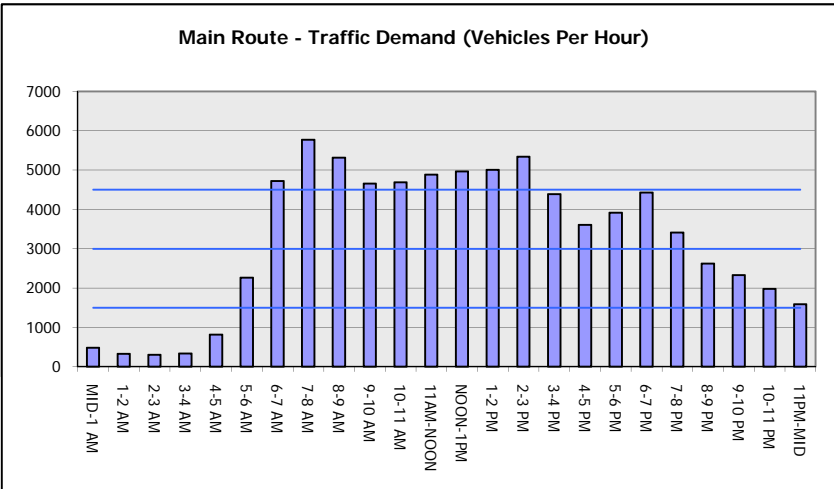
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0261
MAIN ROUTE WITH WORKS	0.0252
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$8,239
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	772	0.0	3000	772	0	0.35	0	69.8	58.3	49.7
1-2 AM	554	0.0	3000	554	0	0.36	0	70.0	58.4	49.7
2-3 AM	491	0.0	3000	491	0	0.36	0	70.1	58.4	49.7
3-4 AM	475	0.0	3000	475	0	0.36	0	70.1	58.4	49.7
4-5 AM	1263	0.0	3000	1263	0	0.35	0	69.2	58.1	49.7
5-6 AM	3133	0.0	OFF	3133	0	0.00	0	66.8	66.8	66.8
6-7 AM	5280	0.0	OFF	5280	0	0.00	0	54.8	54.8	54.8
7-8 AM	6227	0.0	OFF	6227	0	0.00	0	48.3	48.3	48.3
8-9 AM	5211	0.0	OFF	5211	0	0.00	0	55.3	55.3	55.3
9-10 AM	4385	0.0	OFF	4385	0	0.00	0	60.9	60.9	60.9
10-11 AM	4516	0.0	OFF	4516	0	0.00	0	60.0	60.0	60.0
11AM-NOON	4834	0.0	OFF	4834	0	0.00	0	57.8	57.8	57.8
NOON-1PM	4993	0.0	OFF	4993	0	0.00	0	56.8	56.8	56.8
1-2 PM	5305	0.0	OFF	5305	0	0.00	0	54.6	54.6	54.6
2-3 PM	6008	0.0	OFF	6008	0	0.00	0	49.8	49.8	49.8
3-4 PM	6248	0.0	OFF	6248	0	0.00	0	48.2	48.2	48.2
4-5 PM	6497	0.0	OFF	6497	0	0.00	0	46.5	46.5	46.5
5-6 PM	5747	0.0	OFF	5747	0	0.00	0	51.6	51.6	51.6
6-7 PM	4931	0.0	OFF	4931	0	0.00	0	57.2	57.2	57.2
7-8 PM	3593	0.0	2999	3593	0	6.47	353	66.3	16.4	37.3
8-9 PM	3127	0.0	2999	3127	0	12.90	672	66.8	11.4	37.3
9-10 PM	3098	0.0	3000	3098	0	14.79+	775	66.9	10.7	37.3
10-11 PM	2921	0.0	2999	2921	0	15.43+	810	67.1	10.6	37.3
11PM-MID	2099	0.0	2999	2099	0	4.40	367	68.1	22.4	43.7

"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	0.0307
MAIN ROUTE WITH WORKS	0.0294
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$41,411
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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