

<b>USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY)</b> <b>OFF-PEAK DAY CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	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	OFF	481	0	0.00	0	70.1	70.1	70.1	
1-2 AM	324	0.0	OFF	324	0	0.00	0	70.2	70.2	70.2	
2-3 AM	301	0.0	OFF	301	0	0.00	0	70.2	70.2	70.2	
3-4 AM	336	0.0	OFF	336	0	0.00	0	70.2	70.2	70.2	
4-5 AM	813	0.0	OFF	813	0	0.00	0	69.7	69.7	69.7	
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	2999	3929	761	11.73+	670	58.8	12.0	37.3	
11AM-NOON	4882	0.0	2999	3000	1882	17.51+	953	57.5	10.0	37.3	
NOON-1PM	4969	0.0	3000	3000	1969	17.47+	953	56.9	10.0	37.3	
1-2 PM	5002	0.0	3000	3000	2002	17.46+	953	56.7	10.0	37.3	
2-3 PM	5338	0.0	3000	3000	2337	17.30+	953	54.4	10.0	37.3	
3-4 PM	4390	0.0	OFF	4390	0	2.93	268	60.9	25.2	25.2	
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	OFF	3414	0	0.00	0	66.5	66.5	66.5	
8-9 PM	2622	0.0	OFF	2622	0	0.00	0	67.5	67.5	67.5	
9-10 PM	2324	0.0	OFF	2324	0	0.00	0	67.9	67.9	67.9	
10-11 PM	1978	0.0	OFF	1978	0	0.00	0	68.2	68.2	68.2	
11PM-MID	1588	0.0	OFF	1588	0	0.00	0	68.7	68.7	68.7	

"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

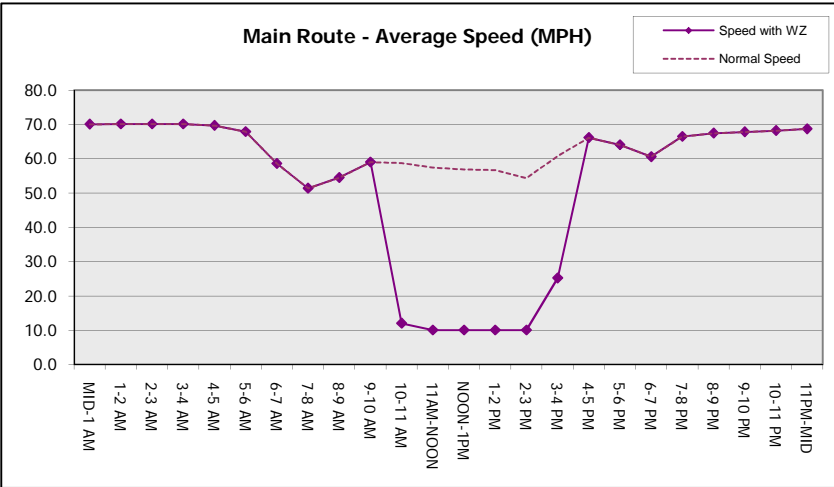
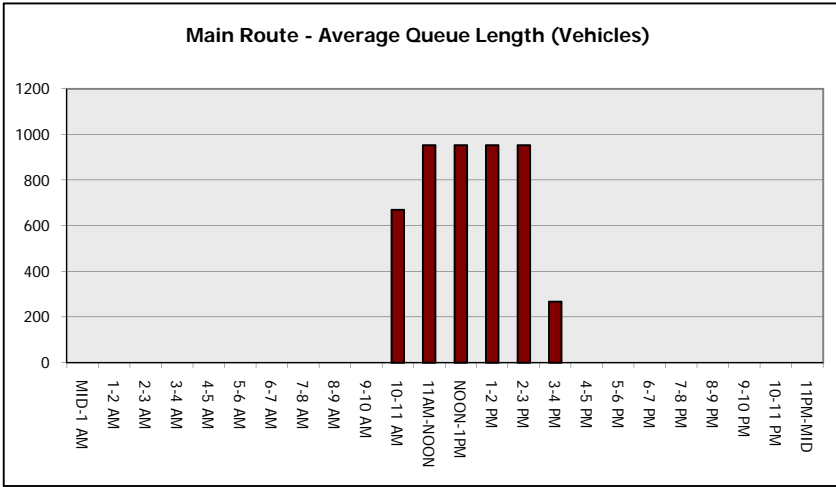
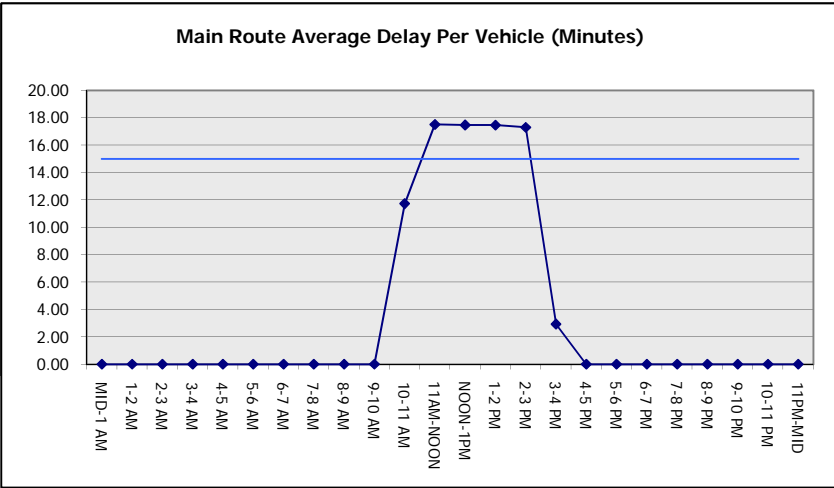
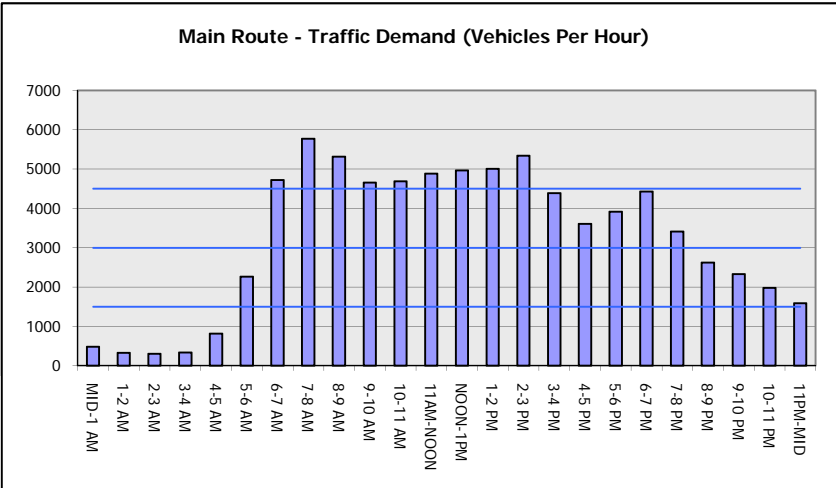
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0261
MAIN ROUTE WITH WORKS	0.0221
'DIVERSION'	0.0069
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$68,613
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

**USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY)  
OFF-PEAK DAY CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY SOUTHBOUND DIRECTION**



<b>USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY)</b> <b>OFF-PEAK DAY CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**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	OFF	772	0	0.00	0	69.8	69.8	69.8
1-2 AM	554	0.0	OFF	554	0	0.00	0	70.0	70.0	70.0
2-3 AM	491	0.0	OFF	491	0	0.00	0	70.1	70.1	70.1
3-4 AM	475	0.0	OFF	475	0	0.00	0	70.1	70.1	70.1
4-5 AM	1263	0.0	OFF	1263	0	0.00	0	69.2	69.2	69.2
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	2999	3862	654	11.06+	643	60.0	12.4	37.3
11AM-NOON	4834	0.0	3000	3063	1771	17.37+	944	57.8	10.0	37.3
NOON-1PM	4993	0.0	3000	3000	1993	17.46+	953	56.8	10.0	37.3
1-2 PM	5305	0.0	3000	3000	2305	17.31+	953	54.6	10.0	37.3
2-3 PM	6008	0.0	3000	3000	3008	16.94+	953	49.8	10.0	37.3
3-4 PM	6248	0.0	OFF	6248	0	10.40	1048	48.2	9.7	9.7
4-5 PM	6497	0.0	OFF	6497	0	14.03	1421	46.5	7.5	7.5
5-6 PM	5747	0.0	OFF	5747	0	15.52	1543	51.6	7.0	7.0
6-7 PM	4931	0.0	OFF	4931	0	9.14	881	57.2	11.1	11.1
7-8 PM	3593	0.0	OFF	3593	0	0.32	25	66.3	56.8	56.8
8-9 PM	3127	0.0	OFF	3127	0	0.00	0	66.8	66.8	66.8
9-10 PM	3098	0.0	OFF	3098	0	0.00	0	66.9	66.9	66.9
10-11 PM	2921	0.0	OFF	2921	0	0.00	0	67.1	67.1	67.1
11PM-MID	2099	0.0	OFF	2099	0	0.00	0	68.1	68.1	68.1

"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	0.0
(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	0
(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	0.0263
'DIVERSION'	0.0075

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$115,412
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

**USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY)  
OFF-PEAK DAY CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY NORTHBOUND DIRECTION**

