

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) OFF-PEAK DAY 2 LANE 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	OFF	481	0	0.00	0	70.1	70.1	70.1	
1-2 AM	323	0.0	OFF	323	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	811	0.0	OFF	811	0	0.00	0	69.7	69.7	69.7	
5-6 AM	2261	0.0	OFF	2261	0	0.00	0	67.9	67.9	67.9	
6-7 AM	4712	0.0	OFF	4712	0	0.00	0	58.7	58.7	58.7	
7-8 AM	5759	0.0	OFF	5759	0	0.00	0	51.5	51.5	51.5	
8-9 AM	5305	0.0	OFF	5305	0	0.00	0	54.6	54.6	54.6	
9-10 AM	4646	0.0	OFF	4646	0	0.00	0	59.1	59.1	59.1	
10-11 AM	4682	0.0	1499	1591	3090	17.41+	443	58.9	7.2	36.5	
11AM-NOON	4872	0.0	1499	1956	2916	15.99+	409	57.6	7.5	32.0	
NOON-1PM	4959	0.0	1499	1499	3460	16.72+	423	57.0	7.3	32.9	
1-2 PM	4992	0.0	1500	1500	3492	16.72+	423	56.8	7.3	32.9	
2-3 PM	5327	0.0	1500	1500	3827	16.62+	423	54.5	7.3	32.9	
3-4 PM	4381	0.0	OFF	4381	0	1.04	92	60.9	39.1	39.1	
4-5 PM	3599	0.0	OFF	3599	0	0.00	0	66.3	66.3	66.3	
5-6 PM	3907	0.0	OFF	3907	0	0.00	0	64.1	64.1	64.1	
6-7 PM	4416	0.0	OFF	4416	0	0.00	0	60.7	60.7	60.7	
7-8 PM	3407	0.0	OFF	3407	0	0.00	0	66.5	66.5	66.5	
8-9 PM	2617	0.0	OFF	2617	0	0.00	0	67.5	67.5	67.5	
9-10 PM	2319	0.0	OFF	2319	0	0.00	0	67.9	67.9	67.9	
10-11 PM	1974	0.0	OFF	1974	0	0.00	0	68.3	68.3	68.3	
11PM-MID	1585	0.0	OFF	1585	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	0.0236
MAIN ROUTE WITH WORKS	0.0180
'DIVERSION'	0.0118
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$75,343
CONGESTED HOURS PER DAY*	5

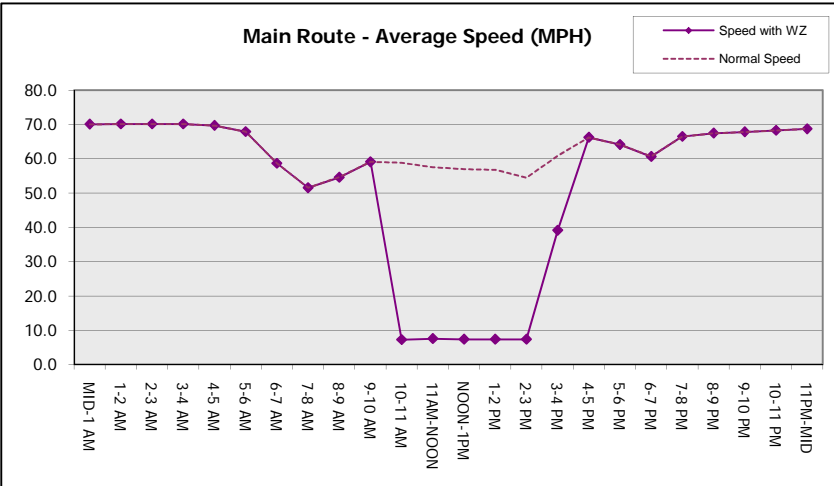
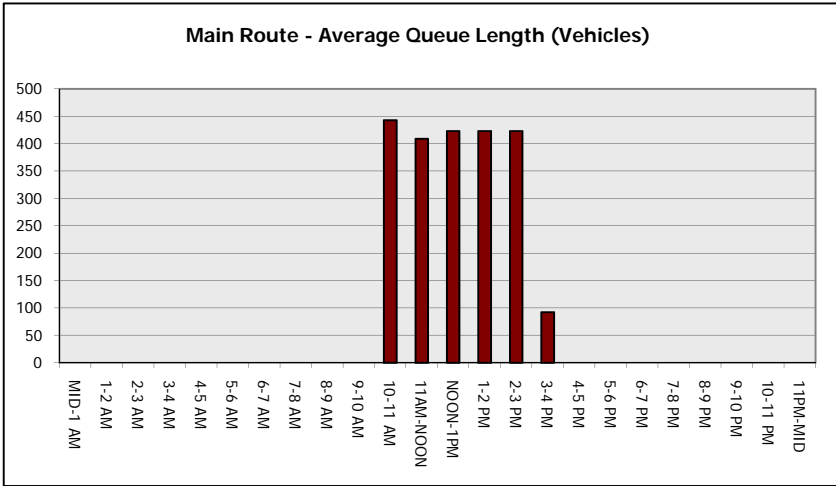
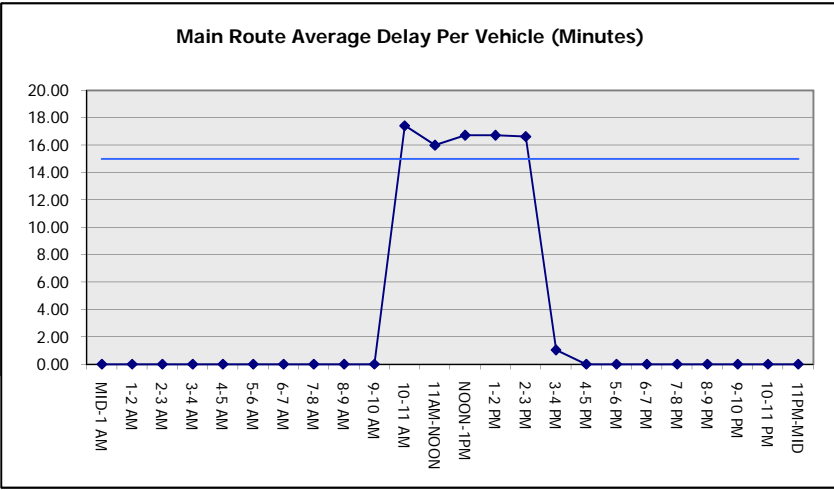
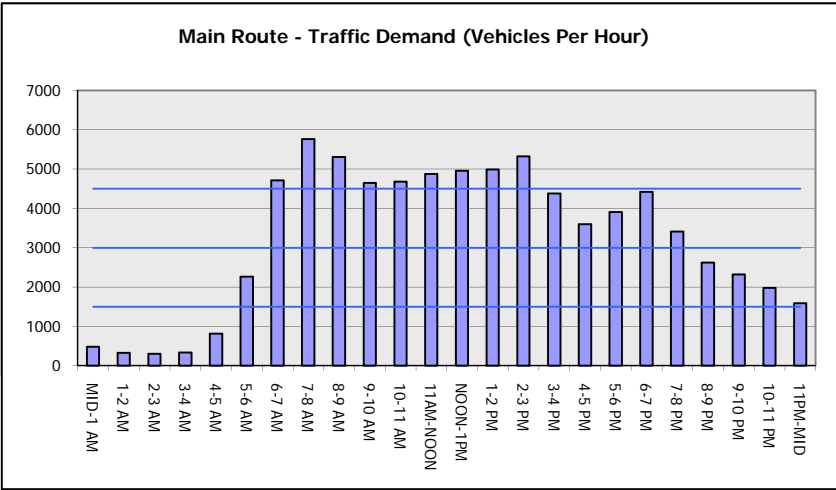
*Delays Exceeding User-Specified Maximum

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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	770	0.0	OFF	770	0	0.00	0	69.8	69.8	69.8
1-2 AM	553	0.0	OFF	553	0	0.00	0	70.0	70.0	70.0
2-3 AM	490	0.0	OFF	490	0	0.00	0	70.1	70.1	70.1
3-4 AM	474	0.0	OFF	474	0	0.00	0	70.2	70.2	70.2
4-5 AM	1260	0.0	OFF	1260	0	0.00	0	69.2	69.2	69.2
5-6 AM	3126	0.0	OFF	3126	0	0.00	0	66.8	66.8	66.8
6-7 AM	5270	0.0	OFF	5270	0	0.00	0	54.8	54.8	54.8
7-8 AM	6215	0.0	OFF	6215	0	0.00	0	48.4	48.4	48.4
8-9 AM	5200	0.0	OFF	5200	0	0.00	0	55.3	55.3	55.3
9-10 AM	4376	0.0	OFF	4376	0	0.00	0	61.0	61.0	61.0
10-11 AM	4507	0.0	1499	1585	2921	17.29+	439	60.1	7.3	36.5
11AM-NOON	4825	0.0	1499	1973	2852	15.90+	408	57.9	7.6	32.8
NOON-1PM	4983	0.0	1499	1491	3492	16.67+	423	56.8	7.3	33.3
1-2 PM	5294	0.0	1500	1500	3794	16.61+	423	54.7	7.3	33.1
2-3 PM	5996	0.0	1500	1500	4496	16.37+	423	49.9	7.3	33.1
3-4 PM	6235	0.0	OFF	6235	0	6.60	667	48.3	12.7	12.7
4-5 PM	6484	0.0	OFF	6484	0	10.11	1027	46.6	9.1	9.1
5-6 PM	5735	0.0	OFF	5735	0	11.45	1136	51.7	8.3	8.3
6-7 PM	4921	0.0	OFF	4921	0	4.94	466	57.3	16.5	16.5
7-8 PM	3586	0.0	OFF	3586	0	0.00	0	66.3	66.3	66.3
8-9 PM	3120	0.0	OFF	3120	0	0.00	0	66.9	66.9	66.9
9-10 PM	3091	0.0	OFF	3091	0	0.00	0	66.9	66.9	66.9
10-11 PM	2915	0.0	OFF	2915	0	0.00	0	67.1	67.1	67.1
11PM-MID	2095	0.0	OFF	2095	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 (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	0.0277
MAIN ROUTE WITH WORKS	0.0218
'DIVERSION'	0.0123

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$111,602
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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