

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) NIGHTTIME 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	1500	481	0	1.47	77	70.1	37.0	43.2	
1-2 AM	323	0.0	1500	323	0	0.51	0	70.2	53.3	44.2	
2-3 AM	301	0.0	1500	301	0	0.51	0	70.2	53.4	44.3	
3-4 AM	336	0.0	1500	336	0	0.51	0	70.2	53.3	44.2	
4-5 AM	811	0.0	1500	811	0	0.57	0	69.7	51.8	42.4	
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	OFF	4682	0	0.00	0	58.9	58.9	58.9	
11AM-NOON	4872	0.0	OFF	4872	0	0.00	0	57.6	57.6	57.6	
NOON-1PM	4959	0.0	OFF	4959	0	0.00	0	57.0	57.0	57.0	
1-2 PM	4992	0.0	OFF	4992	0	0.00	0	56.8	56.8	56.8	
2-3 PM	5327	0.0	OFF	5327	0	0.00	0	54.5	54.5	54.5	
3-4 PM	4381	0.0	OFF	4381	0	0.00	0	60.9	60.9	60.9	
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	1499	1579	1828	17.33+	434	66.5	7.3	36.5	
8-9 PM	2617	0.0	1499	1629	988	15.00+	392	67.5	8.1	35.6	
9-10 PM	2319	0.0	1499	1755	565	15.91+	392	67.9	7.6	30.8	
10-11 PM	1974	0.0	1499	1480	494	16.85+	412	68.3	7.4	30.8	
11PM-MID	1585	0.0	1499	1422	163	16.60+	406	68.7	7.5	30.8	

"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

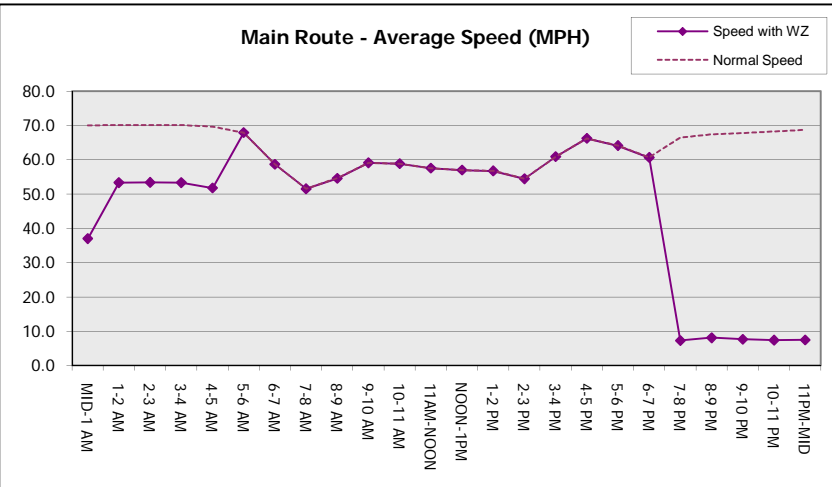
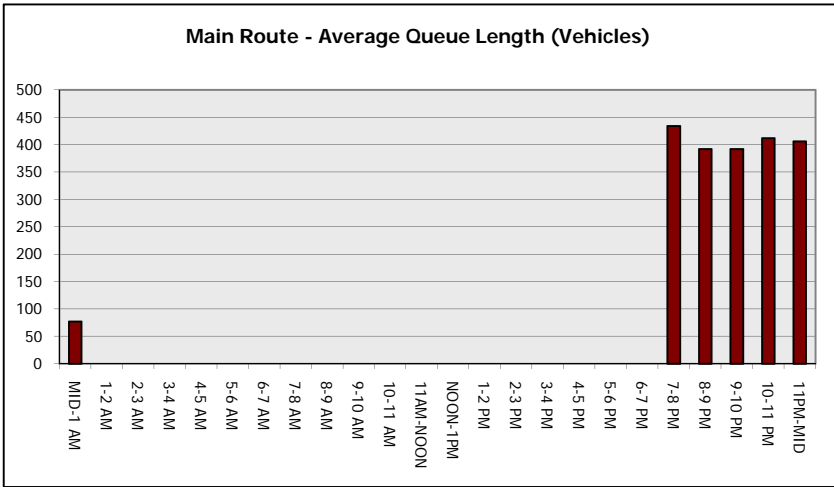
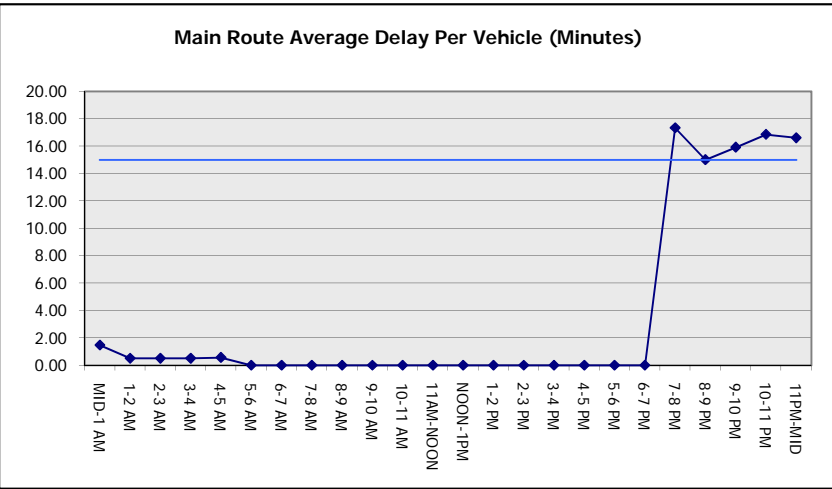
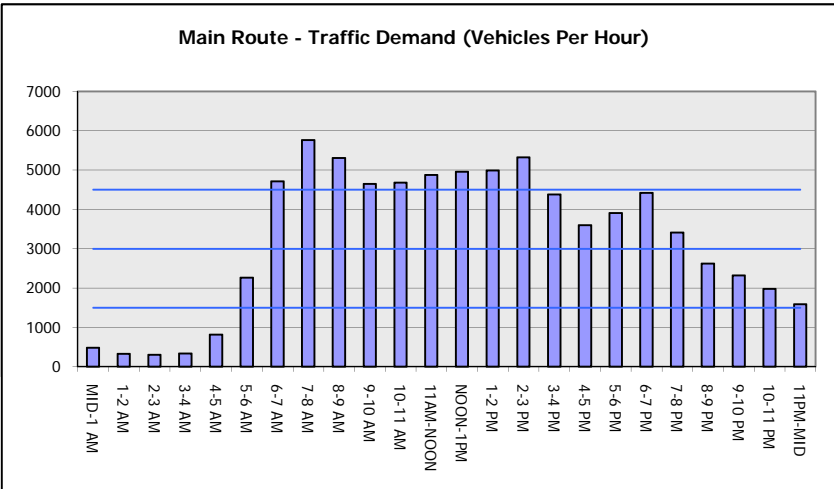
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0236
MAIN ROUTE WITH WORKS	0.0217
'DIVERSION'	0.0028
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$46,341
CONGESTED HOURS PER DAY*	5

*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	1499	770	0	2.51	136	69.8	28.0	39.6	
1-2 AM	553	0.0	1500	553	0	0.54	0	70.0	52.6	43.3	
2-3 AM	490	0.0	1500	490	0	0.53	0	70.1	52.8	43.5	
3-4 AM	474	0.0	1500	474	0	0.53	0	70.2	52.9	43.6	
4-5 AM	1260	0.0	1499	1260	0	1.10	11	69.2	41.4	36.3	
5-6 AM	3126	0.0	OFF	3126	0	0.01	0	66.8	66.6	66.6	
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	OFF	4507	0	0.00	0	60.1	60.1	60.1	
11AM-NOON	4825	0.0	OFF	4825	0	0.00	0	57.9	57.9	57.9	
NOON-1PM	4983	0.0	OFF	4983	0	0.00	0	56.8	56.8	56.8	
1-2 PM	5294	0.0	OFF	5294	0	0.00	0	54.7	54.7	54.7	
2-3 PM	5996	0.0	OFF	5996	0	0.00	0	49.9	49.9	49.9	
3-4 PM	6235	0.0	OFF	6235	0	0.00	0	48.3	48.3	48.3	
4-5 PM	6484	0.0	OFF	6484	0	0.00	0	46.6	46.6	46.6	
5-6 PM	5735	0.0	OFF	5735	0	0.00	0	51.7	51.7	51.7	
6-7 PM	4921	0.0	OFF	4921	0	0.00	0	57.3	57.3	57.3	
7-8 PM	3586	0.0	1499	1579	2007	17.34+	434	66.3	7.3	36.5	
8-9 PM	3120	0.0	1499	1700	1421	15.14+	392	66.9	7.9	35.5	
9-10 PM	3091	0.0	1499	1537	1554	16.90+	419	66.9	7.4	34.0	
10-11 PM	2915	0.0	1500	1536	1379	17.03+	419	67.1	7.3	31.5	
11PM-MID	2095	0.0	1500	1538	557	16.80+	411	68.1	7.4	30.8	

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0277
MAIN ROUTE WITH WORKS	0.0248
'DIVERSION'	0.0048

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$59,135
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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