

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

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	632	0.0	1500	632	0	0.88	20	69.9	45.5	42.9	
1-2 AM	447	0.0	1500	447	0	0.53	0	70.2	53.0	43.7	
2-3 AM	396	0.0	1500	396	0	0.52	0	70.2	53.2	43.9	
3-4 AM	471	0.0	1500	471	0	0.53	0	70.2	52.9	43.6	
4-5 AM	850	0.0	1500	850	0	0.57	0	69.7	51.7	42.2	
5-6 AM	2448	0.0	OFF	2448	0	0.00	0	67.7	67.7	67.7	
6-7 AM	5083	0.0	OFF	5083	0	0.00	0	56.1	56.1	56.1	
7-8 AM	6048	0.0	OFF	6048	0	0.00	0	49.6	49.6	49.6	
8-9 AM	5419	0.0	OFF	5419	0	0.00	0	53.8	53.8	53.8	
9-10 AM	4639	0.0	OFF	4639	0	0.00	0	59.2	59.2	59.2	
10-11 AM	4359	0.0	OFF	4359	0	0.00	0	61.1	61.1	61.1	
11AM-NOON	4677	0.0	OFF	4677	0	0.00	0	58.9	58.9	58.9	
NOON-1PM	4560	0.0	OFF	4560	0	0.00	0	59.7	59.7	59.7	
1-2 PM	4633	0.0	OFF	4633	0	0.00	0	59.2	59.2	59.2	
2-3 PM	5162	0.0	OFF	5162	0	0.00	0	55.6	55.6	55.6	
3-4 PM	4490	0.0	OFF	4490	0	0.00	0	60.2	60.2	60.2	
4-5 PM	4178	0.0	OFF	4178	0	0.00	0	62.3	62.3	62.3	
5-6 PM	4013	0.0	OFF	4013	0	0.00	0	63.5	63.5	63.5	
6-7 PM	4247	0.0	OFF	4247	0	0.00	0	61.9	61.9	61.9	
7-8 PM	3071	0.0	1499	1578	1493	17.32+	433	66.9	7.3	36.5	
8-9 PM	2556	0.0	1499	1656	900	14.79+	385	67.6	8.1	35.5	
9-10 PM	2119	0.0	1499	1707	412	15.93+	391	68.1	7.6	30.8	
10-11 PM	1649	0.0	1499	1456	193	16.74+	409	68.7	7.4	30.8	
11PM-MID	1281	0.0	1499	1281	0	12.96+	319	69.1	8.6	31.2	

"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

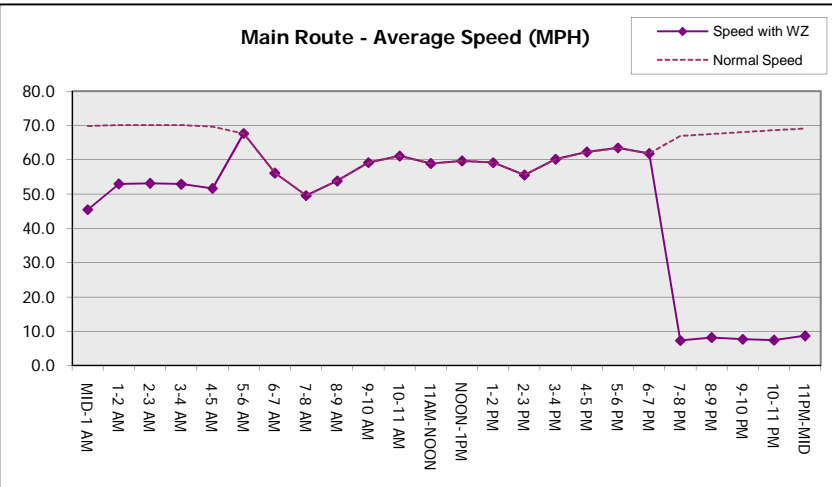
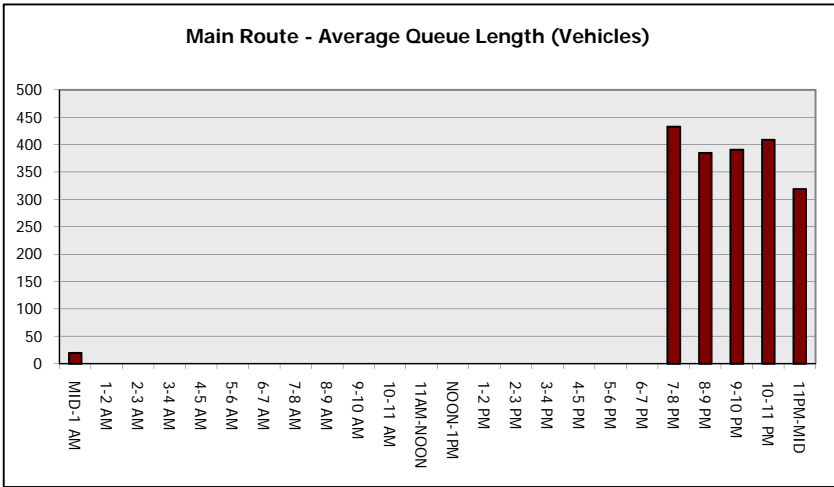
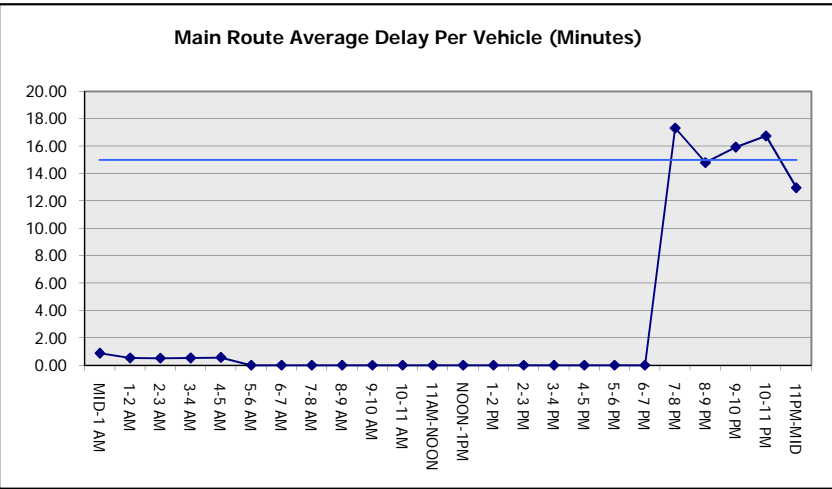
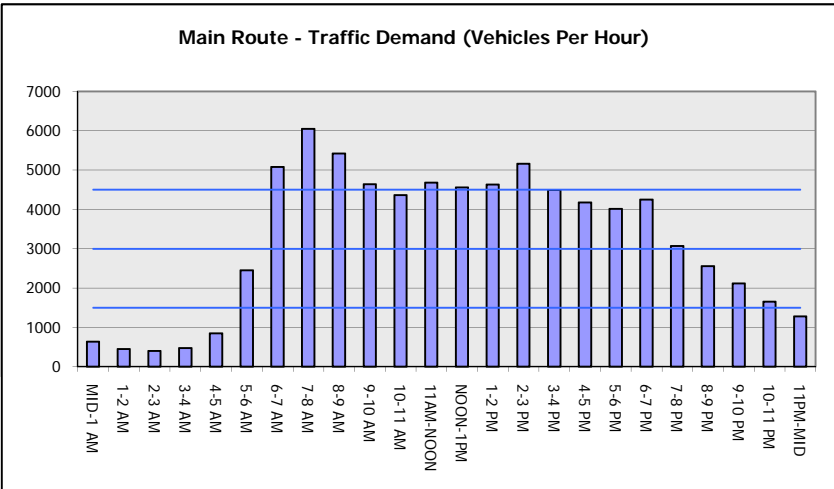
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0234
MAIN ROUTE WITH WORKS	0.0218
'DIVERSION'	0.0021
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$38,956
CONGESTED HOURS PER DAY*	5

*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	970	0.0	1499	970	0	2.79	128	69.6	26.0	37.9
1-2 AM	678	0.0	1500	678	0	0.55	0	69.9	52.2	42.8
2-3 AM	650	0.0	1500	650	0	0.55	0	69.9	52.3	43.0
3-4 AM	695	0.0	1500	695	0	0.55	0	69.9	52.2	42.8
4-5 AM	1287	0.0	1499	1287	0	1.15	13	69.1	40.8	36.3
5-6 AM	3250	0.0	OFF	3250	0	0.01	0	66.7	66.4	66.4
6-7 AM	5363	0.0	OFF	5363	0	0.00	0	54.2	54.2	54.2
7-8 AM	6317	0.0	OFF	6317	0	0.00	0	47.7	47.7	47.7
8-9 AM	5294	0.0	OFF	5294	0	0.00	0	54.7	54.7	54.7
9-10 AM	4205	0.0	OFF	4205	0	0.00	0	62.1	62.1	62.1
10-11 AM	4121	0.0	OFF	4121	0	0.00	0	62.7	62.7	62.7
11AM-NOON	4431	0.0	OFF	4431	0	0.00	0	60.6	60.6	60.6
NOON-1PM	4460	0.0	OFF	4460	0	0.00	0	60.4	60.4	60.4
1-2 PM	4986	0.0	OFF	4986	0	0.00	0	56.8	56.8	56.8
2-3 PM	5617	0.0	OFF	5617	0	0.00	0	52.5	52.5	52.5
3-4 PM	5573	0.0	OFF	5573	0	0.00	0	52.8	52.8	52.8
4-5 PM	6389	0.0	OFF	6389	0	0.00	0	47.2	47.2	47.2
5-6 PM	6265	0.0	OFF	6265	0	0.00	0	48.1	48.1	48.1
6-7 PM	4587	0.0	OFF	4587	0	0.00	0	59.5	59.5	59.5
7-8 PM	3388	0.0	1499	1579	1809	17.33+	434	66.5	7.3	36.5
8-9 PM	3005	0.0	1499	1679	1326	15.10+	392	67.0	8.0	35.5
9-10 PM	3062	0.0	1499	1577	1486	16.86+	416	66.9	7.4	32.4
10-11 PM	2793	0.0	1500	1532	1261	17.05+	419	67.3	7.3	30.9
11PM-MID	1653	0.0	1500	1467	186	15.66+	382	68.7	7.7	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	0.0269
MAIN ROUTE WITH WORKS	0.0243
'DIVERSION'	0.0043

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$53,532
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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