

USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	518	0.0	1500	518	0	0.53	0	70.1	55.1	43.4	
1-2 AM	327	0.0	1500	327	0	0.51	0	70.2	55.6	44.2	
2-3 AM	275	0.0	1500	275	0	0.51	0	70.2	55.8	44.4	
3-4 AM	234	0.0	1500	234	0	0.50	0	70.2	55.9	44.5	
4-5 AM	363	0.0	1500	363	0	0.52	0	70.2	55.6	44.0	
5-6 AM	672	0.0	1500	672	0	0.55	0	69.9	54.6	42.8	
6-7 AM	1148	0.0	1499	1148	0	0.69	0	69.3	51.4	38.9	
7-8 AM	1672	0.0	1499	1672	0	2.45	49	68.7	30.9	30.8	
8-9 AM	2303	0.0	OFF	2303	0	0.05	3	67.9	66.4	66.4	
9-10 AM	2701	0.0	OFF	2701	0	0.00	0	67.4	67.4	67.4	
10-11 AM	3003	0.0	OFF	3003	0	0.00	0	67.0	67.0	67.0	
11AM-NOON	3296	0.0	OFF	3296	0	0.00	0	66.6	66.6	66.6	
NOON-1PM	3382	0.0	OFF	3382	0	0.00	0	66.5	66.5	66.5	
1-2 PM	3207	0.0	OFF	3207	0	0.00	0	66.8	66.8	66.8	
2-3 PM	3317	0.0	OFF	3317	0	0.00	0	66.6	66.6	66.6	
3-4 PM	3329	0.0	OFF	3329	0	0.00	0	66.6	66.6	66.6	
4-5 PM	3206	0.0	OFF	3206	0	0.00	0	66.8	66.8	66.8	
5-6 PM	2883	0.0	OFF	2883	0	0.00	0	67.1	67.1	67.1	
6-7 PM	2434	0.0	1499	1914	521	13.22+	328	67.7	9.3	31.9	
7-8 PM	1928	0.0	1499	1500	428	16.62+	406	68.3	7.9	30.8	
8-9 PM	1633	0.0	1500	1500	133	16.63+	406	68.7	7.9	30.8	
9-10 PM	1520	0.0	1499	1479	41	16.54+	404	68.9	8.0	30.8	
10-11 PM	1202	0.0	1499	1202	0	10.26	264	69.2	11.4	32.4	
11PM-MID	835	0.0	1500	835	0	0.74	7	69.7	50.7	42.2	

"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	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

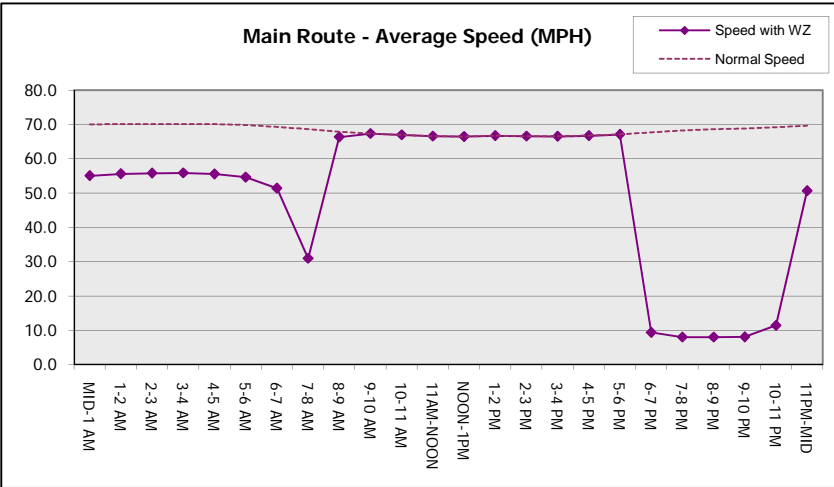
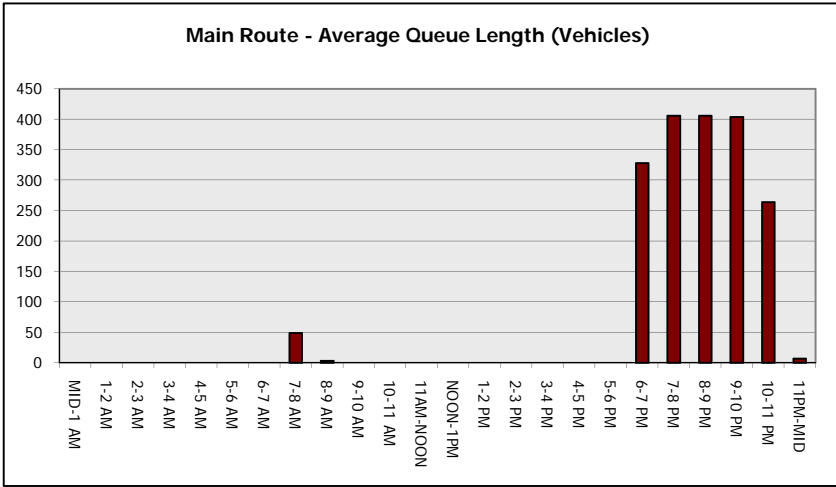
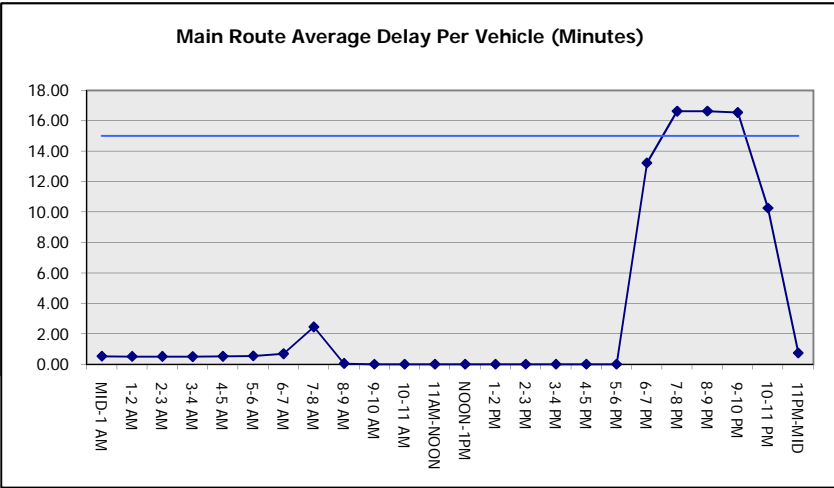
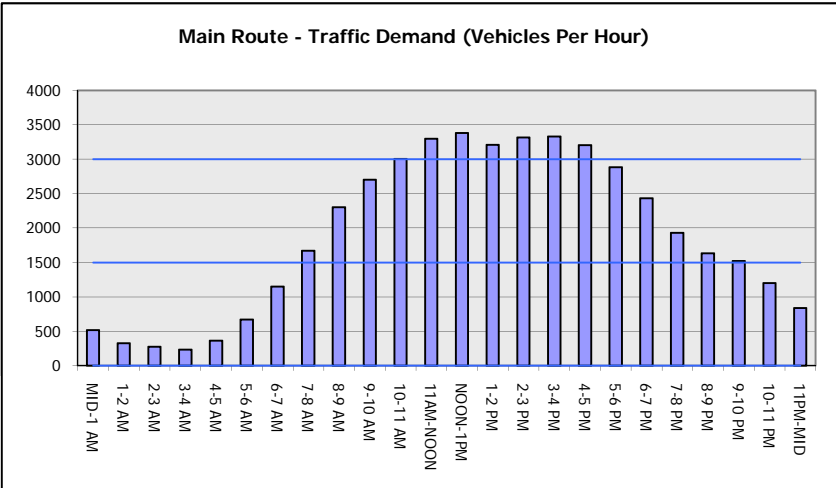
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0166
MAIN ROUTE WITH WORKS	0.0153
'DIVERSION'	0.0010
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$35,539
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	816	0.0	1500	816	0	0.57	0	69.7	54.2	42.4	
1-2 AM	495	0.0	1500	495	0	0.53	0	70.1	55.1	43.5	
2-3 AM	406	0.0	1500	406	0	0.52	0	70.2	55.5	43.8	
3-4 AM	344	0.0	1500	344	0	0.51	0	70.2	55.6	44.1	
4-5 AM	411	0.0	1500	411	0	0.52	0	70.2	55.5	43.8	
5-6 AM	734	0.0	1500	734	0	0.56	0	69.8	54.5	42.6	
6-7 AM	1282	0.0	1499	1282	0	0.80	0	69.1	49.3	36.5	
7-8 AM	1837	0.0	1499	1837	0	5.02	137	68.4	19.6	30.8	
8-9 AM	2298	0.0	OFF	2298	0	0.17	15	67.9	62.7	62.7	
9-10 AM	2623	0.0	OFF	2623	0	0.00	0	67.5	67.5	67.5	
10-11 AM	2973	0.0	OFF	2973	0	0.00	0	67.1	67.1	67.1	
11AM-NOON	3196	0.0	OFF	3196	0	0.00	0	66.8	66.8	66.8	
NOON-1PM	3294	0.0	OFF	3294	0	0.00	0	66.6	66.6	66.6	
1-2 PM	3321	0.0	OFF	3321	0	0.00	0	66.6	66.6	66.6	
2-3 PM	3278	0.0	OFF	3278	0	0.00	0	66.6	66.6	66.6	
3-4 PM	3309	0.0	OFF	3309	0	0.00	0	66.6	66.6	66.6	
4-5 PM	3155	0.0	OFF	3155	0	0.00	0	66.8	66.8	66.8	
5-6 PM	2864	0.0	OFF	2864	0	0.00	0	67.2	67.2	67.2	
6-7 PM	2374	0.0	1499	1950	423	12.97+	324	67.8	9.5	31.0	
7-8 PM	1933	0.0	1499	1486	447	16.58+	405	68.3	7.9	30.8	
8-9 PM	1805	0.0	1499	1499	306	16.62+	406	68.5	7.9	30.8	
9-10 PM	1926	0.0	1499	1499	427	16.62+	406	68.3	7.9	30.8	
10-11 PM	1445	0.0	1499	1374	71	15.32+	373	68.9	8.4	30.8	
11PM-MID	1053	0.0	1499	1053	0	3.06	123	69.4	27.3	37.3	

"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	0.0173
MAIN ROUTE WITH WORKS	0.0156
'DIVERSION'	0.0014

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$42,571
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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