

<b>USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	770	0.0	1500	770	0	0.56	0	69.8	61.1	42.5
1-2 AM	565	0.0	1500	565	0	0.54	0	70.0	61.6	43.3
2-3 AM	313	0.0	1500	313	0	0.51	0	70.2	62.1	44.2
3-4 AM	224	0.0	1500	224	0	0.50	0	70.2	62.3	44.6
4-5 AM	257	0.0	1500	257	0	0.50	0	70.2	62.2	44.5
5-6 AM	396	0.0	1500	396	0	0.52	0	70.2	62.0	43.9
6-7 AM	746	0.0	1500	746	0	0.56	0	69.8	61.2	42.6
7-8 AM	884	0.0	1500	884	0	0.57	0	69.6	60.8	42.1
8-9 AM	1440	0.0	1499	1440	0	1.37	13	68.9	51.4	33.5
9-10 AM	2212	0.0	OFF	2212	0	0.01	0	68.0	67.9	67.9
10-11 AM	3142	0.0	OFF	3142	0	0.00	0	66.8	66.8	66.8
11AM-NOON	3799	0.0	OFF	3799	0	0.00	0	64.9	64.9	64.9
NOON-1PM	4054	0.0	OFF	4054	0	0.00	0	63.2	63.2	63.2
1-2 PM	3988	0.0	OFF	3988	0	0.00	0	63.6	63.6	63.6
2-3 PM	4246	0.0	OFF	4246	0	0.00	0	61.9	61.9	61.9
3-4 PM	3963	0.0	OFF	3963	0	0.00	0	63.8	63.8	63.8
4-5 PM	4017	0.0	OFF	4017	0	0.00	0	63.4	63.4	63.4
5-6 PM	3833	0.0	OFF	3833	0	0.00	0	64.6	64.6	64.6
6-7 PM	3369	0.0	OFF	3369	0	0.00	0	66.6	66.6	66.6
7-8 PM	2886	0.0	1499	1547	1339	15.55+	388	67.1	14.0	36.5
8-9 PM	2411	0.0	1499	1763	648	13.32+	340	67.8	15.8	34.3
9-10 PM	1687	0.0	1499	1578	109	15.76+	385	68.6	14.0	30.8
10-11 PM	1203	0.0	1499	1203	0	10.62	273	69.2	18.9	32.9
11PM-MID	595	0.0	1500	595	0	0.67	4	70.0	59.7	43.1

"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

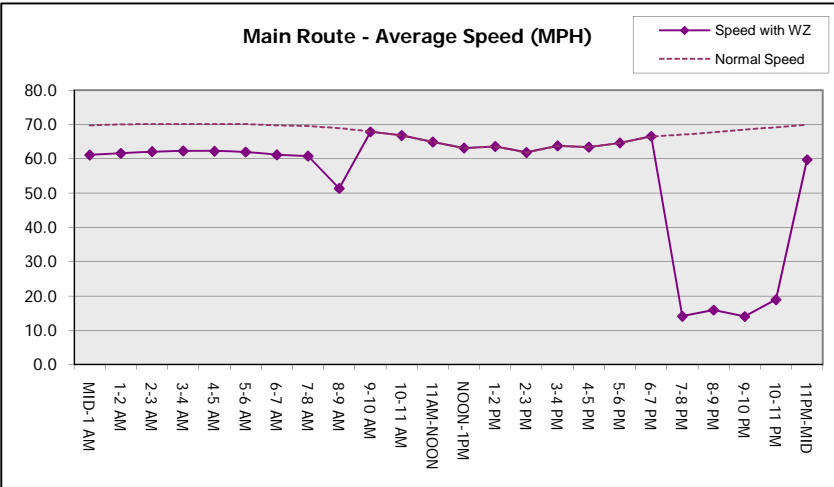
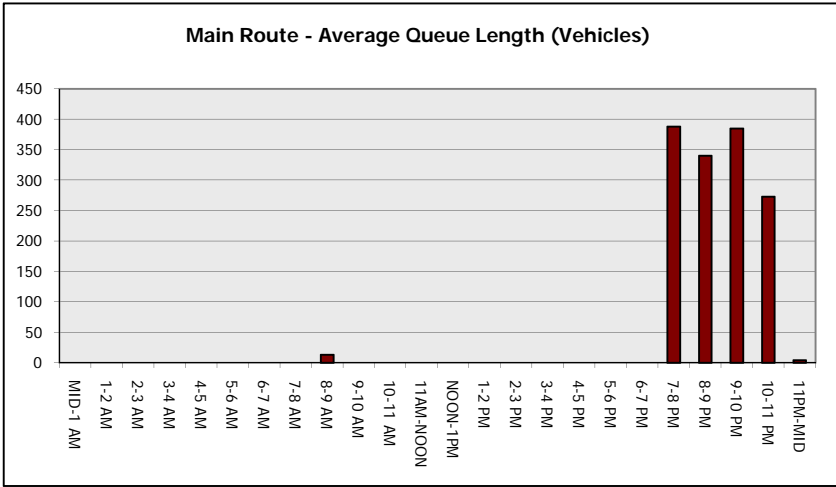
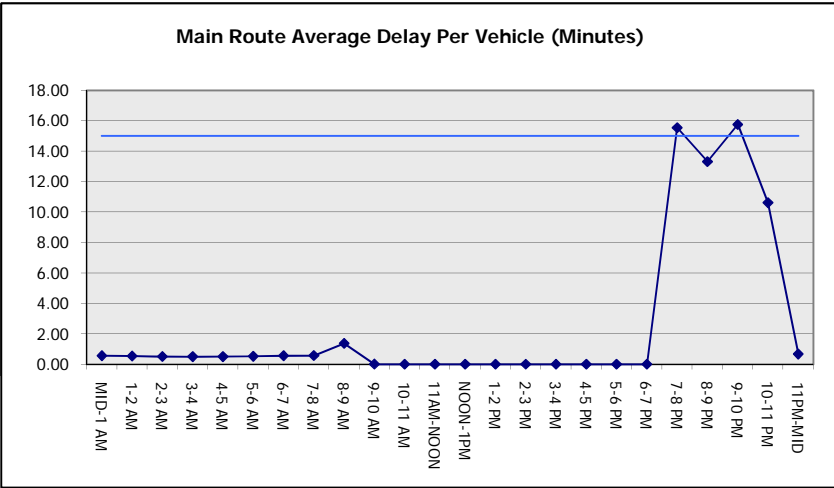
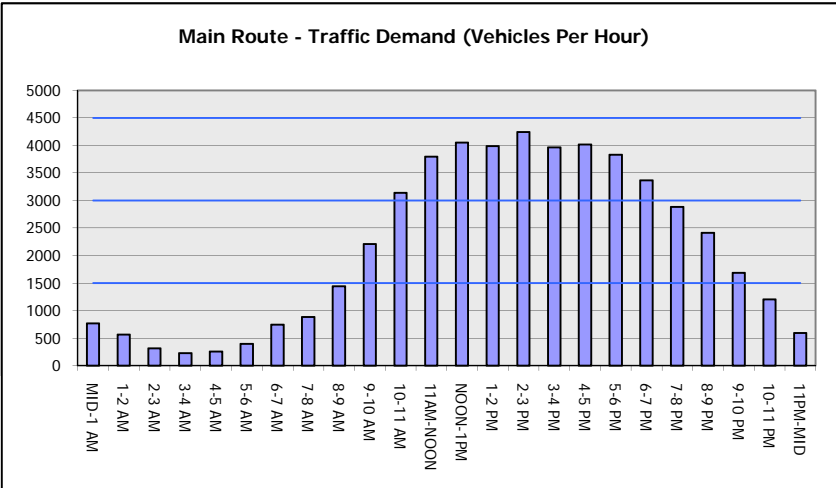
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0373
MAIN ROUTE WITH WORKS	0.0350
'DIVERSION'	0.0036
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$31,544
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding User-Specified Maximum

**USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)**  
**NIGHTTIME 2 LANE CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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



<b>USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	807	0.0	1500	807	0	0.57	0	69.7	61.0	42.4	
1-2 AM	503	0.0	1500	503	0	0.53	0	70.1	61.7	43.5	
2-3 AM	359	0.0	1500	359	0	0.52	0	70.2	62.0	44.0	
3-4 AM	219	0.0	1500	219	0	0.50	0	70.2	62.3	44.6	
4-5 AM	178	0.0	1500	178	0	0.49	0	70.2	62.0	44.8	
5-6 AM	364	0.0	1500	364	0	0.52	0	70.2	61.5	44.0	
6-7 AM	582	0.0	1500	582	0	0.54	0	70.0	60.8	43.2	
7-8 AM	897	0.0	1500	897	0	0.58	0	69.6	57.6	42.0	
8-9 AM	1279	0.0	1499	1279	0	0.80	0	69.1	60.8	36.4	
9-10 AM	1864	0.0	OFF	1864	0	0.00	0	68.4	68.4	68.4	
10-11 AM	2441	0.0	OFF	2441	0	0.00	0	67.7	67.7	67.7	
11AM-NOON	2821	0.0	OFF	2821	0	0.00	0	67.3	67.3	67.3	
NOON-1PM	3110	0.0	OFF	3110	0	0.00	0	66.9	66.9	66.9	
1-2 PM	3174	0.0	OFF	3174	0	0.00	0	66.8	66.8	66.8	
2-3 PM	3078	0.0	OFF	3078	0	0.00	0	66.9	66.9	66.9	
3-4 PM	3129	0.0	OFF	3129	0	0.00	0	66.8	66.8	66.8	
4-5 PM	3413	0.0	OFF	3413	0	0.00	0	66.5	66.5	66.5	
5-6 PM	3127	0.0	OFF	3127	0	0.00	0	66.8	66.8	66.8	
6-7 PM	2526	0.0	OFF	2526	0	0.00	0	67.6	67.6	67.6	
7-8 PM	2091	0.0	1499	1845	245	10.83+	286	68.1	18.5	30.8	
8-9 PM	1727	0.0	1500	1539	188	16.19+	395	68.6	13.7	30.8	
9-10 PM	1450	0.0	1500	1450	0	15.46+	376	68.9	14.2	30.8	
10-11 PM	1173	0.0	1499	1173	0	7.20	194	69.3	24.7	33.8	
11PM-MID	710	0.0	1500	710	0	0.56	0	69.9	61.2	42.7	

"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	0.0300
MAIN ROUTE WITH WORKS	0.0289
'DIVERSION'	0.0007

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$22,163
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding User-Specified Maximum

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**SUNDAY NORTHBOUND DIRECTION**

