

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	3000	770	0	0.35	0	69.8	64.0	49.7
1-2 AM	565	0.0	3000	565	0	0.36	0	70.0	64.2	49.7
2-3 AM	313	0.0	3000	313	0	0.36	0	70.2	64.3	49.7
3-4 AM	224	0.0	3000	224	0	0.36	0	70.2	64.3	49.7
4-5 AM	257	0.0	3000	257	0	0.36	0	70.2	64.3	49.7
5-6 AM	396	0.0	3000	396	0	0.36	0	70.2	64.3	49.7
6-7 AM	746	0.0	3000	746	0	0.35	0	69.8	64.0	49.7
7-8 AM	884	0.0	3000	884	0	0.35	0	69.6	64.0	49.7
8-9 AM	1440	0.0	3000	1440	0	0.34	0	68.9	63.5	49.7
9-10 AM	2212	0.0	OFF	2212	0	0.00	0	68.0	68.0	68.0
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	2999	2886	0	0.66	0	67.1	57.8	39.2
8-9 PM	2411	0.0	3000	2411	0	0.34	0	67.8	62.5	49.1
9-10 PM	1687	0.0	3000	1687	0	0.34	0	68.6	63.3	49.7
10-11 PM	1203	0.0	3000	1203	0	0.35	0	69.2	63.7	49.7
11PM-MID	595	0.0	3000	595	0	0.36	0	70.0	64.1	49.7

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

----- 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

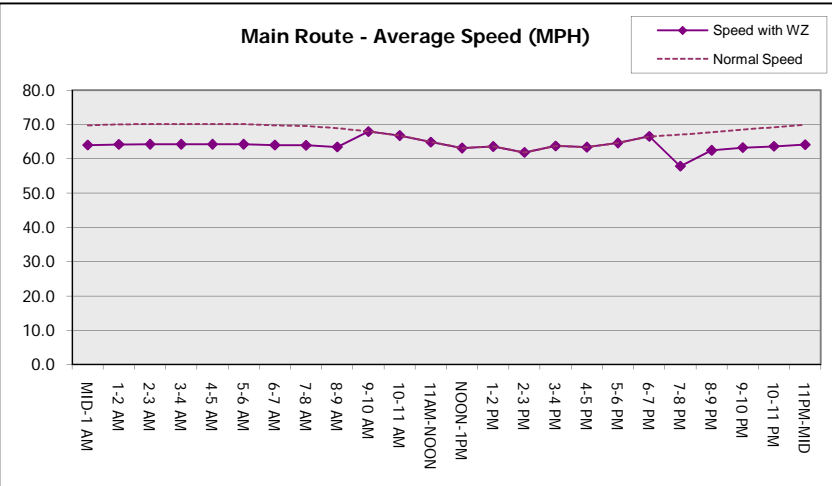
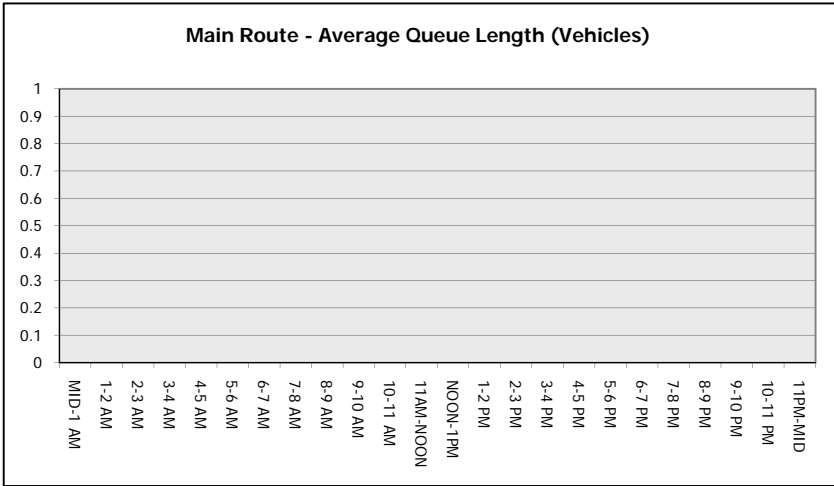
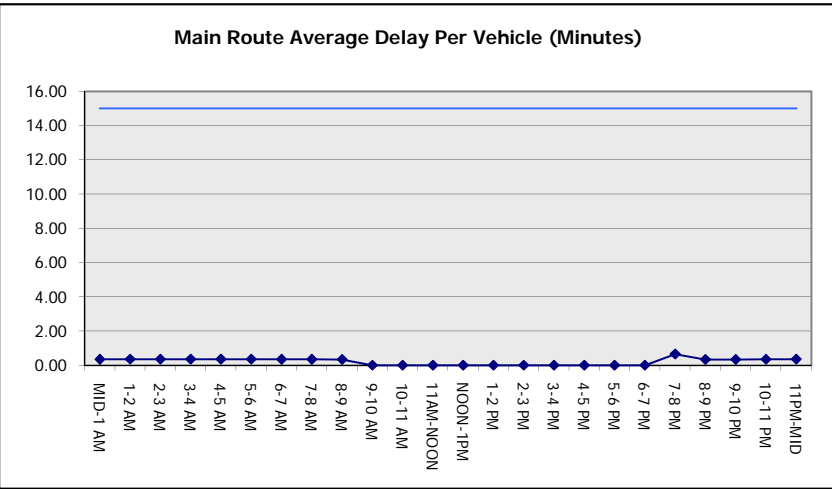
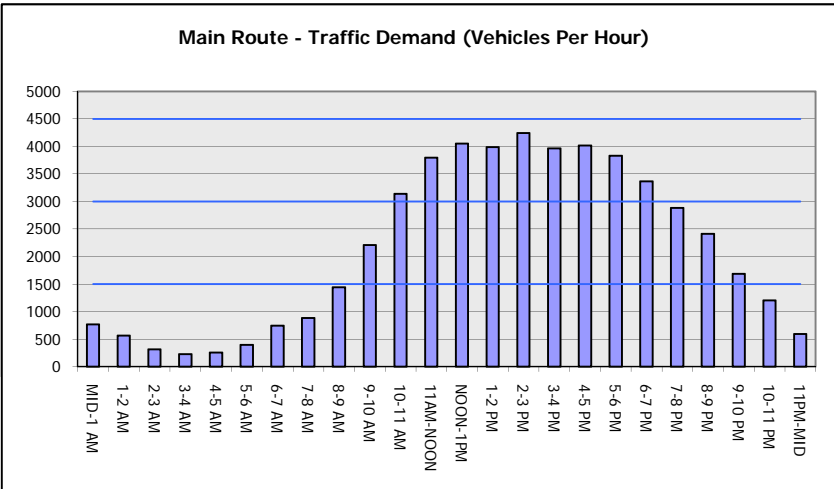
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0373
MAIN ROUTE WITH WORKS	0.0364
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,364
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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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	3000	807	0	0.35	0	69.7	64.0	49.7
1-2 AM	503	0.0	3000	503	0	0.36	0	70.1	64.3	49.7
2-3 AM	359	0.0	3000	359	0	0.36	0	70.2	64.3	49.7
3-4 AM	219	0.0	3000	219	0	0.36	0	70.2	64.3	49.7
4-5 AM	178	0.0	3000	178	0	0.36	0	70.2	64.3	49.7
5-6 AM	364	0.0	3000	364	0	0.36	0	70.2	64.3	49.7
6-7 AM	582	0.0	3000	582	0	0.36	0	70.0	64.2	49.7
7-8 AM	897	0.0	3000	897	0	0.35	0	69.6	63.9	49.7
8-9 AM	1279	0.0	3000	1279	0	0.35	0	69.1	63.6	49.7
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	3000	2091	0	0.33	0	68.1	63.0	49.7
8-9 PM	1727	0.0	3000	1727	0	0.34	0	68.6	63.3	49.7
9-10 PM	1450	0.0	3000	1450	0	0.34	0	68.9	63.5	49.7
10-11 PM	1173	0.0	3000	1173	0	0.35	0	69.3	63.7	49.7
11PM-MID	710	0.0	3000	710	0	0.36	0	69.9	64.1	49.7

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

----- 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	0.0300
MAIN ROUTE WITH WORKS	0.0292
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$989
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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SUNDAY NORTHBOUND DIRECTION

