

STH 441: USH 10 TO CTH CE (OUTAGAMIE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	93	0.0	1500	93	0	0.43	0	66.2	58.7	45.1
1-2 AM	59	0.0	1500	59	0	0.43	0	66.3	58.7	45.3
2-3 AM	60	0.0	1500	60	0	0.43	0	66.3	58.7	45.3
3-4 AM	99	0.0	1500	99	0	0.43	0	66.2	58.6	45.1
4-5 AM	269	0.0	1500	269	0	0.45	0	65.9	58.1	44.4
5-6 AM	833	0.0	OFF	833	0	0.00	0	64.8	64.8	64.8
6-7 AM	1626	0.0	OFF	1626	0	0.00	0	63.3	63.3	63.3
7-8 AM	2278	0.0	OFF	2278	0	0.00	0	62.2	62.2	62.2
8-9 AM	1384	0.0	OFF	1384	0	0.00	0	63.8	63.8	63.8
9-10 AM	1029	0.0	OFF	1029	0	0.00	0	64.5	64.5	64.5
10-11 AM	1024	0.0	OFF	1024	0	0.00	0	64.5	64.5	64.5
11AM-NOON	1079	0.0	OFF	1079	0	0.00	0	64.4	64.4	64.4
NOON-1PM	1175	0.0	OFF	1175	0	0.00	0	64.2	64.2	64.2
1-2 PM	1235	0.0	OFF	1235	0	0.00	0	64.1	64.1	64.1
2-3 PM	1326	0.0	OFF	1326	0	0.00	0	63.9	63.9	63.9
3-4 PM	1497	0.0	OFF	1497	0	0.00	0	63.6	63.6	63.6
4-5 PM	1699	0.0	OFF	1699	0	0.00	0	63.2	63.2	63.2
5-6 PM	1586	0.0	OFF	1586	0	0.00	0	63.4	63.4	63.4
6-7 PM	1091	0.0	OFF	1091	0	0.00	0	64.3	64.3	64.3
7-8 PM	740	0.0	1500	740	0	0.49	0	65.0	56.8	42.6
8-9 PM	611	0.0	1500	611	0	0.48	0	65.3	57.1	43.1
9-10 PM	518	0.0	1500	518	0	0.47	0	65.4	57.4	43.4
10-11 PM	342	0.0	1500	342	0	0.46	0	65.8	57.9	44.1
11PM-MID	200	0.0	1500	200	0	0.44	0	66.0	58.3	44.7

"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

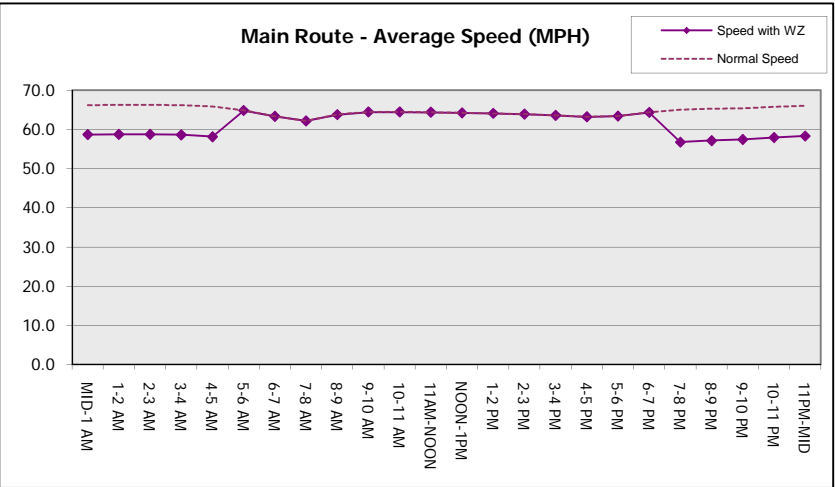
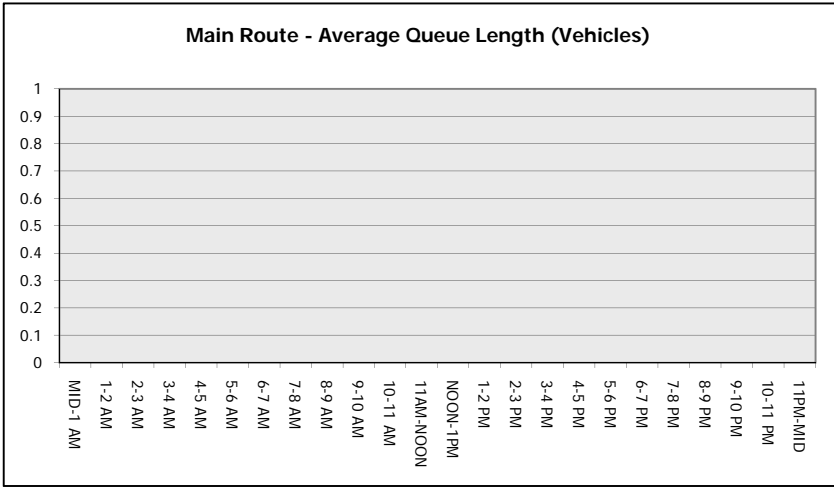
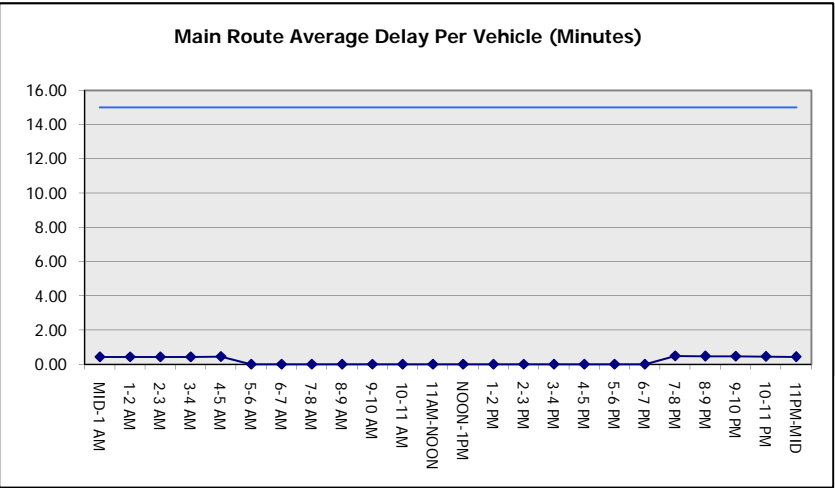
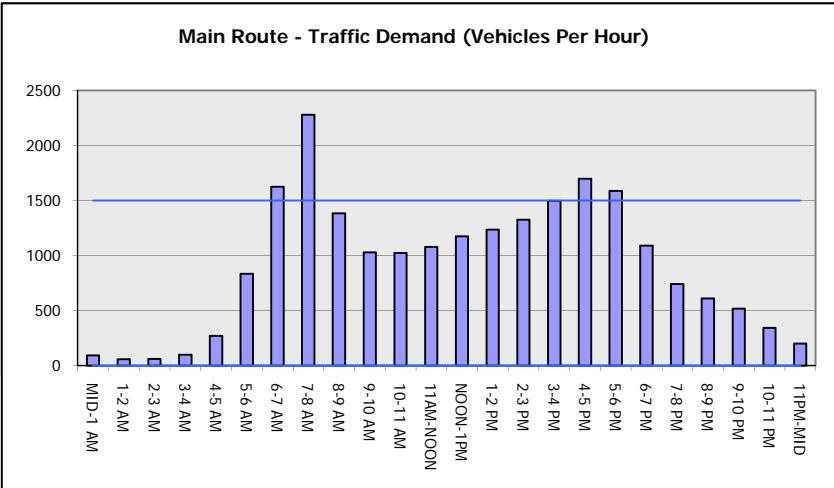
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0129
MAIN ROUTE WITH WORKS	0.0127
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$292
CONGESTED HOURS PER DAY*	0

*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	173	0.0	1500	173	0	0.44	0	66.1	58.4	44.8	
1-2 AM	108	0.0	1500	108	0	0.43	0	66.2	58.6	45.1	
2-3 AM	86	0.0	1500	86	0	0.43	0	66.2	58.7	45.1	
3-4 AM	63	0.0	1500	63	0	0.43	0	66.3	58.7	45.3	
4-5 AM	127	0.0	1500	127	0	0.43	0	66.1	58.6	45.0	
5-6 AM	462	0.0	OFF	462	0	0.00	0	65.5	65.5	65.5	
6-7 AM	1288	0.0	OFF	1288	0	0.00	0	64.0	64.0	64.0	
7-8 AM	1969	0.0	OFF	1969	0	0.00	0	62.7	62.7	62.7	
8-9 AM	1410	0.0	OFF	1410	0	0.00	0	63.8	63.8	63.8	
9-10 AM	1125	0.0	OFF	1125	0	0.00	0	64.3	64.3	64.3	
10-11 AM	1147	0.0	OFF	1147	0	0.00	0	64.3	64.3	64.3	
11AM-NOON	1283	0.0	OFF	1283	0	0.00	0	64.0	64.0	64.0	
NOON-1PM	1357	0.0	OFF	1357	0	0.00	0	63.8	63.8	63.8	
1-2 PM	1408	0.0	OFF	1408	0	0.00	0	63.8	63.8	63.8	
2-3 PM	1926	0.0	OFF	1926	0	0.00	0	62.8	62.8	62.8	
3-4 PM	2321	0.0	OFF	2321	0	0.00	0	62.0	62.0	62.0	
4-5 PM	2789	0.0	OFF	2789	0	0.00	0	57.9	57.9	57.9	
5-6 PM	2446	0.0	OFF	2446	0	0.00	0	61.4	61.4	61.4	
6-7 PM	1559	0.0	OFF	1559	0	0.00	0	63.5	63.5	63.5	
7-8 PM	1068	0.0	1500	1068	0	0.53	0	64.4	55.9	41.4	
8-9 PM	908	0.0	1500	908	0	0.51	0	64.7	56.3	42.0	
9-10 PM	733	0.0	1500	733	0	0.49	0	65.0	56.8	42.7	
10-11 PM	596	0.0	1500	596	0	0.48	0	65.3	57.2	43.2	
11PM-MID	350	0.0	1500	350	0	0.46	0	65.7	57.9	44.1	

"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	0.0157
MAIN ROUTE WITH WORKS	0.0154
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$434
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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