

STH 441: USH 10 TO CTH CE (OUTAGAMIE COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	119	0.0	OFF	119	0	0.00	0	66.1	66.1	66.1	
1-2 AM	100	0.0	OFF	100	0	0.00	0	66.2	66.2	66.2	
2-3 AM	86	0.0	OFF	86	0	0.00	0	66.2	66.2	66.2	
3-4 AM	106	0.0	OFF	106	0	0.00	0	66.2	66.2	66.2	
4-5 AM	288	0.0	OFF	288	0	0.00	0	65.8	65.8	65.8	
5-6 AM	737	0.0	OFF	737	0	0.00	0	65.0	65.0	65.0	
6-7 AM	1501	0.0	OFF	1501	0	0.00	0	63.6	63.6	63.6	
7-8 AM	2190	0.0	OFF	2190	0	0.00	0	62.3	62.3	62.3	
8-9 AM	1373	0.0	OFF	1373	0	0.00	0	63.8	63.8	63.8	
9-10 AM	1054	0.0	OFF	1054	0	0.00	0	64.4	64.4	64.4	
10-11 AM	1125	0.0	1500	1125	0	0.54	0	64.3	55.6	41.0	
11AM-NOON	1198	0.0	1500	1198	0	0.63	0	64.1	54.2	38.5	
NOON-1PM	1257	0.0	1500	1257	0	0.71	0	64.0	53.2	36.7	
1-2 PM	1350	0.0	1500	1350	0	0.83	0	63.9	51.5	34.2	
2-3 PM	1365	0.0	1499	1365	0	0.85	0	63.8	51.3	33.8	
3-4 PM	1631	0.0	OFF	1631	0	0.00	0	63.3	63.3	63.3	
4-5 PM	1719	0.0	OFF	1719	0	0.00	0	63.2	63.2	63.2	
5-6 PM	1581	0.0	OFF	1581	0	0.00	0	63.5	63.5	63.5	
6-7 PM	1150	0.0	OFF	1150	0	0.00	0	64.3	64.3	64.3	
7-8 PM	764	0.0	OFF	764	0	0.00	0	65.0	65.0	65.0	
8-9 PM	665	0.0	OFF	665	0	0.00	0	65.1	65.1	65.1	
9-10 PM	572	0.0	OFF	572	0	0.00	0	65.3	65.3	65.3	
10-11 PM	513	0.0	OFF	513	0	0.00	0	65.5	65.5	65.5	
11PM-MID	319	0.0	OFF	319	0	0.00	0	65.8	65.8	65.8	

"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

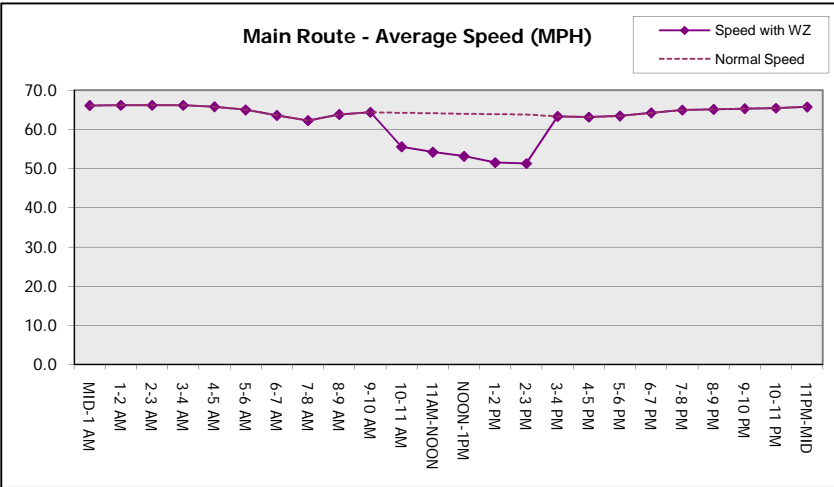
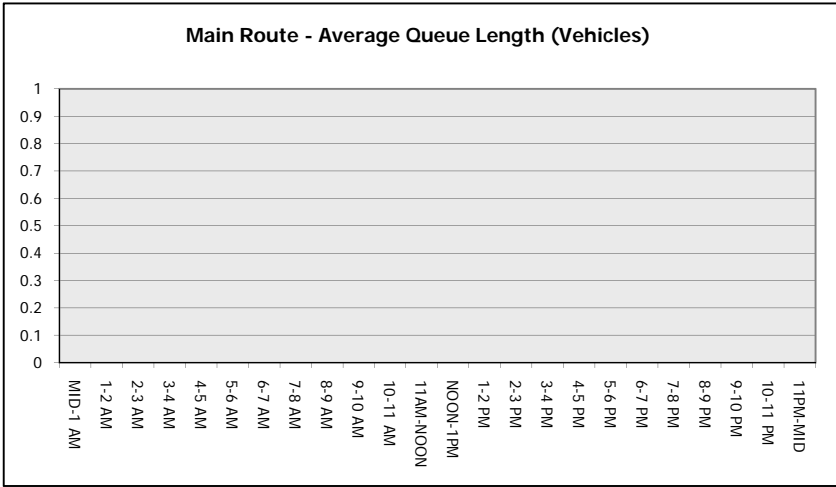
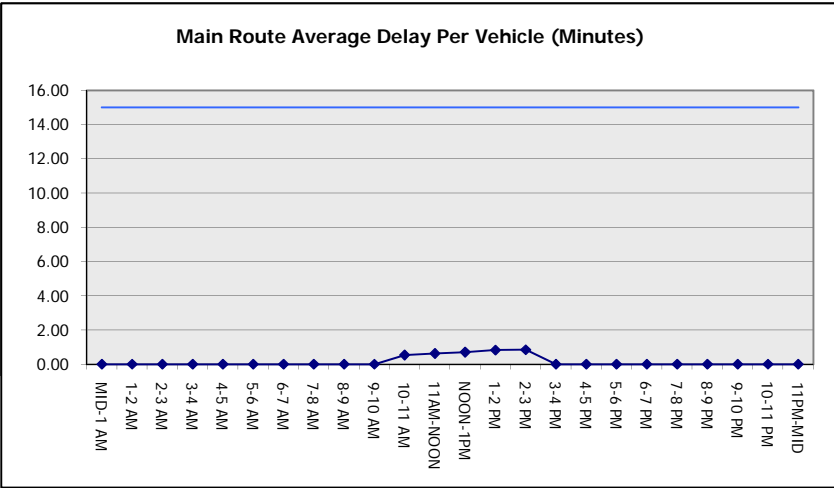
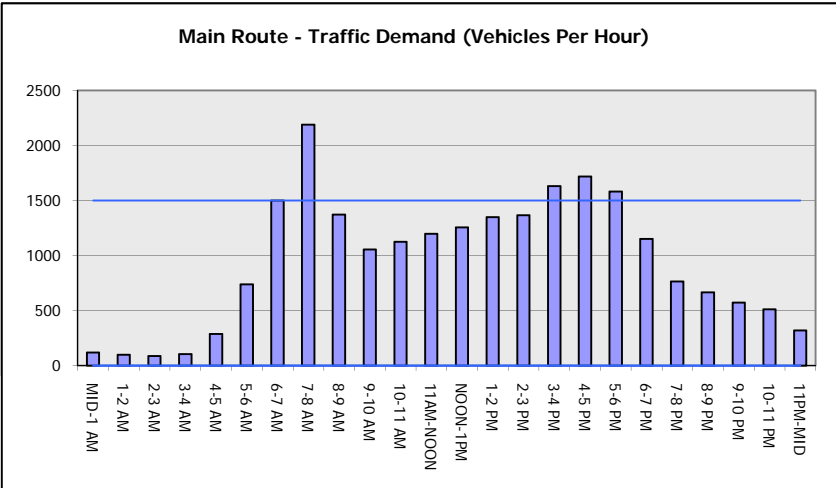
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0134
MAIN ROUTE WITH WORKS	0.0130
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$871
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	200	0.0	OFF	200	0	0.00	0	66.0	66.0	66.0	
1-2 AM	123	0.0	OFF	123	0	0.00	0	66.1	66.1	66.1	
2-3 AM	106	0.0	OFF	106	0	0.00	0	66.2	66.2	66.2	
3-4 AM	85	0.0	OFF	85	0	0.00	0	66.2	66.2	66.2	
4-5 AM	115	0.0	OFF	115	0	0.00	0	66.2	66.2	66.2	
5-6 AM	443	0.0	OFF	443	0	0.00	0	65.6	65.6	65.6	
6-7 AM	1224	0.0	OFF	1224	0	0.00	0	64.1	64.1	64.1	
7-8 AM	1791	0.0	OFF	1791	0	0.00	0	63.0	63.0	63.0	
8-9 AM	1304	0.0	OFF	1304	0	0.00	0	64.0	64.0	64.0	
9-10 AM	1097	0.0	OFF	1097	0	0.00	0	64.3	64.3	64.3	
10-11 AM	1234	0.0	1500	1234	0	0.68	0	64.1	53.5	37.4	
11AM-NOON	1385	0.0	1500	1385	0	0.88	0	63.8	51.0	33.3	
NOON-1PM	1444	0.0	1499	1444	0	0.95	0	63.7	50.0	32.0	
1-2 PM	1565	0.0	1499	1565	0	1.59	17	63.5	43.7	30.9	
2-3 PM	2073	0.0	1500	1785	288	10.61+	288	62.5	15.6	30.8	
3-4 PM	2415	0.0	OFF	2415	0	0.83	40	61.8	50.2	50.2	
4-5 PM	2756	0.0	OFF	2756	0	0.00	0	58.2	58.2	58.2	
5-6 PM	2374	0.0	OFF	2374	0	0.00	0	62.0	62.0	62.0	
6-7 PM	1580	0.0	OFF	1580	0	0.00	0	63.5	63.5	63.5	
7-8 PM	1101	0.0	OFF	1101	0	0.00	0	64.3	64.3	64.3	
8-9 PM	984	0.0	OFF	984	0	0.00	0	64.5	64.5	64.5	
9-10 PM	842	0.0	OFF	842	0	0.00	0	64.8	64.8	64.8	
10-11 PM	779	0.0	OFF	779	0	0.00	0	65.0	65.0	65.0	
11PM-MID	470	0.0	OFF	470	0	0.00	0	65.5	65.5	65.5	

"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	0.0162
MAIN ROUTE WITH WORKS	0.0155
'DIVERSION'	0.0004

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$5,743
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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