

STH 441: USH 10 TO CTH CE (OUTAGAMIE COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	152	0.0	1500	152	0	0.44	0	66.1	58.5	44.9	
1-2 AM	109	0.0	1500	109	0	0.43	0	66.2	58.6	45.0	
2-3 AM	90	0.0	1500	90	0	0.43	0	66.2	58.7	45.1	
3-4 AM	112	0.0	1500	112	0	0.43	0	66.2	58.6	45.0	
4-5 AM	312	0.0	1500	312	0	0.45	0	65.8	58.0	44.2	
5-6 AM	768	0.0	1500	768	0	0.50	0	65.0	56.7	42.5	
6-7 AM	1485	0.0	1499	1485	0	1.43	16	63.6	45.1	32.7	
7-8 AM	1963	0.0	1500	1832	131	10.52+	284	62.7	15.8	30.8	
8-9 AM	1317	0.0	1499	1317	0	13.23+	335	64.0	13.3	30.8	
9-10 AM	1073	0.0	1499	1073	0	1.89	56	64.4	41.6	39.0	
10-11 AM	1175	0.0	1500	1175	0	0.60	0	64.2	54.6	39.3	
11AM-NOON	1278	0.0	1500	1278	0	0.74	0	64.0	52.8	36.1	
NOON-1PM	1383	0.0	1500	1383	0	0.87	0	63.8	51.0	33.3	
1-2 PM	1480	0.0	1500	1480	0	1.00	0	63.7	49.4	31.2	
2-3 PM	1444	0.0	1499	1444	0	0.95	0	63.7	50.0	32.0	
3-4 PM	1509	0.0	1499	1509	0	1.18	4	63.6	47.5	31.0	
4-5 PM	1684	0.0	1500	1684	0	4.68	108	63.2	27.1	30.8	
5-6 PM	1594	0.0	1499	1594	0	10.82	266	63.4	15.5	30.8	
6-7 PM	1180	0.0	1499	1180	0	5.57	165	64.2	24.6	34.4	
7-8 PM	738	0.0	1500	738	0	0.49	0	65.0	56.8	42.6	
8-9 PM	641	0.0	1500	641	0	0.48	0	65.2	57.1	43.0	
9-10 PM	579	0.0	1500	579	0	0.48	0	65.3	57.3	43.2	
10-11 PM	441	0.0	1500	441	0	0.47	0	65.6	57.6	43.7	
11PM-MID	328	0.0	1500	328	0	0.45	0	65.8	57.9	44.2	

+ 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

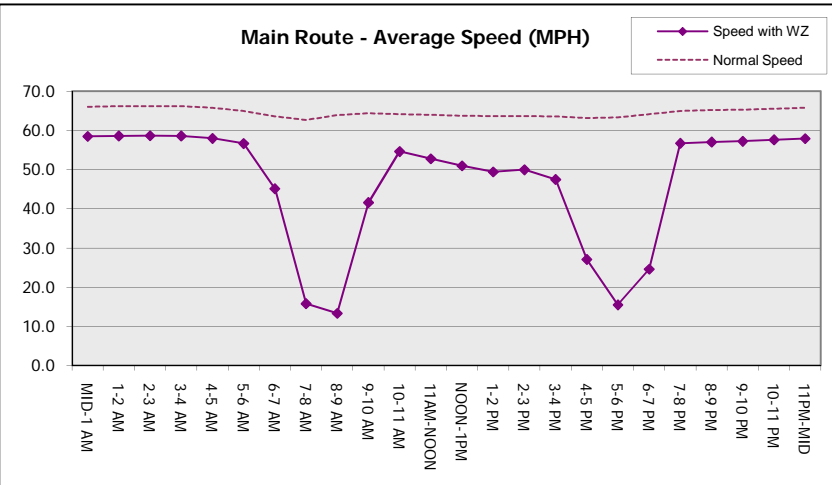
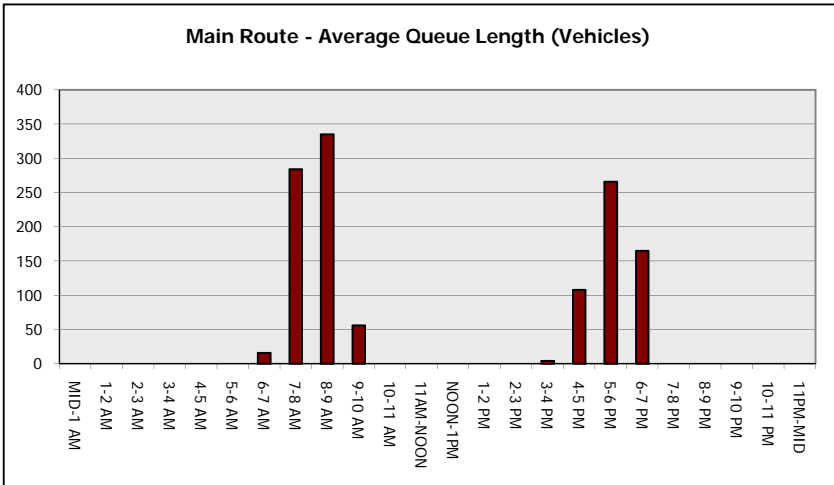
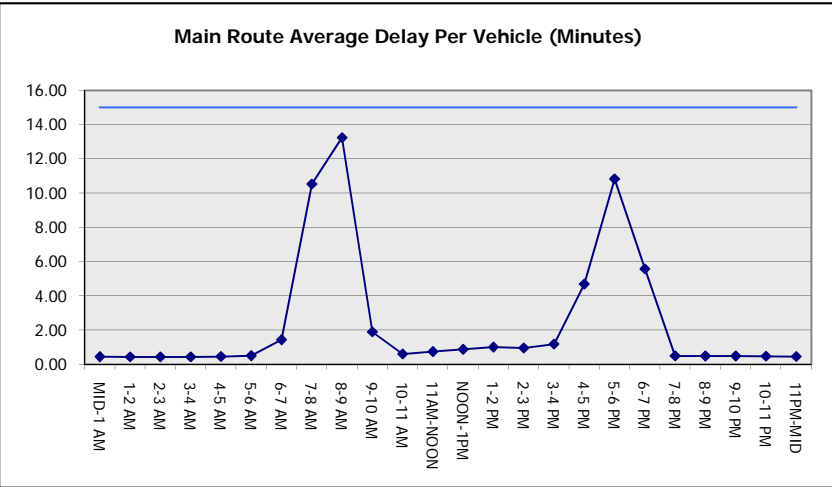
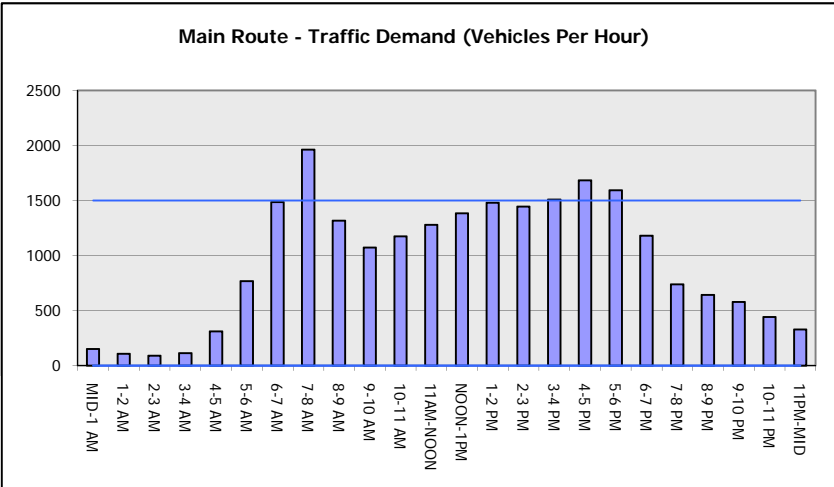
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0134
MAIN ROUTE WITH WORKS	0.0119
'DIVERSION'	0.0002
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$18,811
CONGESTED HOURS PER DAY*	2

*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	253	0.0	1500	253	0	0.45	0	65.9	58.2	44.5
1-2 AM	211	0.0	1500	211	0	0.44	0	66.0	58.3	44.6
2-3 AM	141	0.0	1500	141	0	0.44	0	66.1	58.5	44.9
3-4 AM	106	0.0	1500	106	0	0.43	0	66.2	58.6	45.1
4-5 AM	141	0.0	1500	141	0	0.44	0	66.1	58.5	44.9
5-6 AM	480	0.0	1500	480	0	0.47	0	65.5	57.5	43.6
6-7 AM	1164	0.0	1499	1164	0	0.65	0	64.2	54.1	38.4
7-8 AM	1670	0.0	1499	1670	0	3.76	83	63.3	30.5	30.8
8-9 AM	1216	0.0	1499	1216	0	2.33	63	64.1	38.3	35.9
9-10 AM	1130	0.0	1500	1130	0	0.55	0	64.3	55.5	40.8
10-11 AM	1241	0.0	1500	1241	0	0.69	0	64.1	53.4	37.2
11AM-NOON	1424	0.0	1499	1424	0	0.93	0	63.7	50.4	32.4
NOON-1PM	1531	0.0	1499	1531	0	1.32	8	63.5	46.1	30.8
1-2 PM	1644	0.0	1500	1644	0	3.90	84	63.3	29.9	30.8
2-3 PM	2111	0.0	1500	1772	340	13.77+	355	62.5	12.8	30.8
3-4 PM	2187	0.0	1500	1500	687	15.78+	400	62.3	11.5	30.8
4-5 PM	2512	0.0	1500	1500	1012	15.69+	400	60.8	11.5	30.8
5-6 PM	2105	0.0	1500	1500	605	15.79+	400	62.5	11.5	30.8
6-7 PM	1531	0.0	1499	1393	138	14.89+	374	63.5	12.0	30.8
7-8 PM	1132	0.0	1499	1132	0	5.53	172	64.3	24.7	34.8
8-9 PM	1009	0.0	1500	1009	0	0.52	0	64.5	56.0	41.7
9-10 PM	971	0.0	1500	971	0	0.52	0	64.6	56.1	41.8
10-11 PM	804	0.0	1500	804	0	0.50	0	64.9	56.6	42.4
11PM-MID	619	0.0	1500	619	0	0.48	0	65.2	57.1	43.0

+ 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	0.0161
MAIN ROUTE WITH WORKS	0.0128
'DIVERSION'	0.0038

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$42,547
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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