

**STH 441: CTH 00 TO CTH CE (OUTAGAMIE COUNTY)  
CONTINUOUS (24 HOUR) CLOSURE  
DIVERSION ROUTE: CTH CE - CTH N - CTH 00**

**OCTOBER**

Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH							
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	246	0.0	79	0.0	1500	246	0	79	0.45	0	66.0	53.0	44.5	24.2	24.2
1-2 AM	159	0.0	51	0.0	1500	159	0	51	0.44	0	66.1	53.2	44.8	24.5	24.5
2-3 AM	138	0.0	46	0.0	1500	138	0	46	0.44	0	66.1	53.3	45.0	24.5	24.5
3-4 AM	125	0.0	34	0.0	1500	125	0	34	0.43	0	66.1	53.3	45.0	24.6	24.6
4-5 AM	174	0.0	63	0.0	1500	174	0	63	0.44	0	66.1	53.2	44.8	24.3	24.3
5-6 AM	280	0.0	118	0.0	1500	280	0	118	0.45	0	65.9	52.8	44.3	23.9	23.9
6-7 AM	563	0.0	176	0.0	1500	563	0	176	0.48	0	65.3	51.9	43.3	23.5	23.5
7-8 AM	1396	0.0	280	0.0	1499	1396	0	280	1.23	19	63.8	38.6	35.6	22.7	22.7
8-9 AM	2622	0.0	355	0.0	1500	2128	494	849	17.47	488	59.6	8.9	30.8	22.1	19.9
9-10 AM	2338	0.0	386	0.0	1499	1377	960	1346	24.84	645	62.0	7.5	30.8	21.9	16.6
10-11 AM	1762	0.0	459	0.0	1500	1359	403	862	19.31	495	63.1	8.3	30.8	21.3	19.9
11A-NOON	1460	0.0	455	0.0	1500	1423	36	491	15.96	403	63.7	8.9	30.8	21.4	22.4
NOON-1PM	1376	0.0	483	0.0	1499	1376	0	483	12.32	306	63.8	10.1	30.8	21.1	21.9
1-2 PM	1333	0.0	461	0.0	1499	1333	0	461	6.64	159	63.9	14.5	31.1	21.3	21.4
2-3 PM	1283	0.0	446	0.0	1500	1283	0	446	1.10	12	64.0	40.3	35.4	21.4	21.4
3-4 PM	1301	0.0	420	0.0	1500	1301	0	420	0.77	0	64.0	45.4	35.5	21.6	21.6
4-5 PM	1285	0.0	382	0.0	1500	1285	0	382	0.75	0	64.0	45.8	35.9	21.9	21.9
5-6 PM	1122	0.0	382	0.0	1500	1122	0	382	0.54	0	64.3	50.0	41.1	21.9	21.9
6-7 PM	873	0.0	346	0.0	1500	873	0	346	0.51	0	64.8	50.9	42.1	22.2	22.2
7-8 PM	712	0.0	257	0.0	1500	712	0	257	0.49	0	65.1	51.4	42.7	22.9	22.9
8-9 PM	645	0.0	221	0.0	1500	645	0	221	0.48	0	65.2	51.6	43.0	23.2	23.2
9-10 PM	536	0.0	189	0.0	1500	536	0	189	0.47	0	65.4	52.0	43.3	23.4	23.4
10-11 PM	464	0.0	155	0.0	1500	464	0	155	0.47	0	65.5	52.2	43.7	23.7	23.7
11PM-MID	361	0.0	107	0.0	1500	361	0	107	0.46	0	65.7	52.5	44.0	24.0	24.0

**\*----- SITE BREAKDOWN DELAYS -----\***

BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

**\*----- SITE ACCIDENT DELAYS -----\***

ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

**AVERAGE ACCIDENT NUMBERS (PIA/DAY)**

MAIN ROUTE WITHOUT WORKS	0.0072
MAIN ROUTE WITH WORKS	0.0052
DIVERSION	0.0610

PIA: Personal Injury Accidents

**IMPACTS ON ROAD USERS**

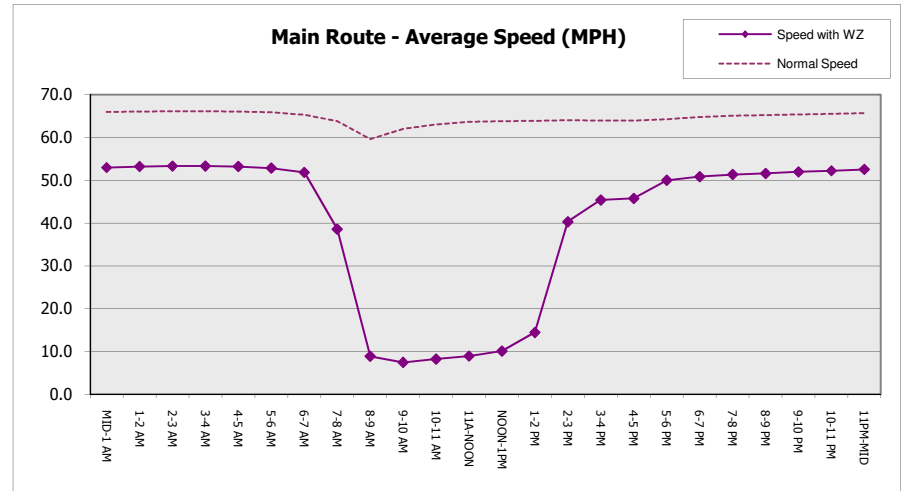
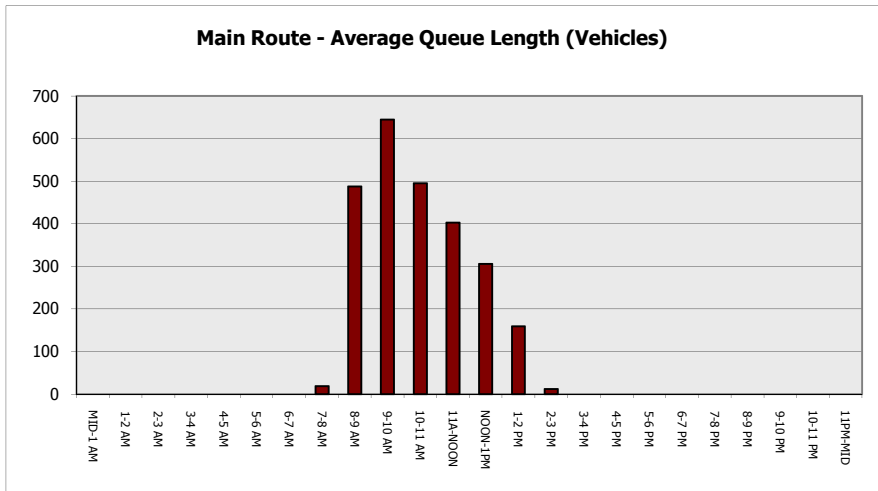
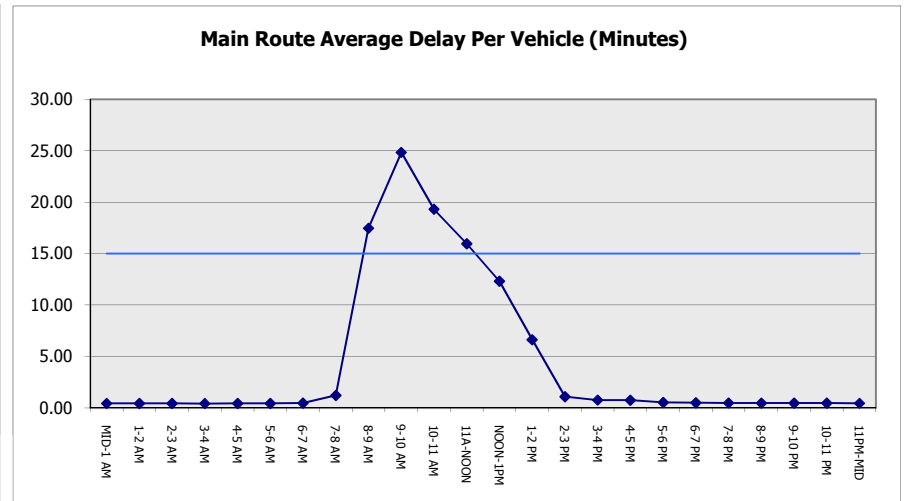
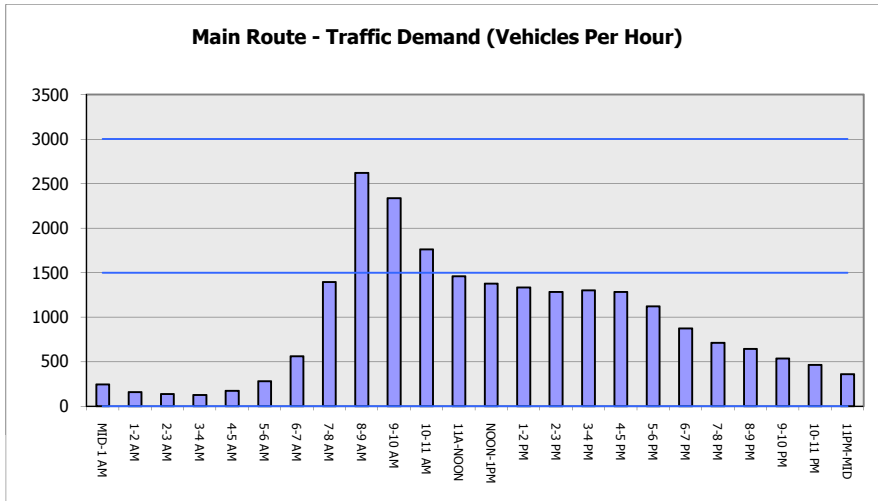
ROAD USER COSTS PER DAY ( DOLLARS)	\$59,111
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding 15 Minutes

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**CONTINUOUS (24 HOUR) CLOSURE**  
**DIVERSION ROUTE: CTH CE - CTH N - CTH 00**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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



<b>STH 441: CTH 00 TO CTH CE (OUTAGAMIE COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: CTH CE - CTH N - CTH 00</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
SATURDAY	NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	184	0.0	117	0.0	1500	184	0	117	0.44	0	66.0	53.2	44.8	24.0	24.0
1-2 AM	113	0.0	75	0.0	1500	113	0	75	0.43	0	66.2	53.4	45.0	24.3	24.3
2-3 AM	93	0.0	61	0.0	1500	93	0	61	0.43	0	66.2	53.5	45.1	24.3	24.3
3-4 AM	116	0.0	37	0.0	1500	116	0	37	0.43	0	66.2	53.4	45.0	24.5	24.5
4-5 AM	125	0.0	42	0.0	1500	125	0	42	0.43	0	66.1	53.3	45.0	24.5	24.5
5-6 AM	212	0.0	85	0.0	1500	212	0	85	0.44	0	66.0	53.0	44.6	24.2	24.2
6-7 AM	281	0.0	161	0.0	1500	281	0	161	0.45	0	65.9	52.8	44.3	23.6	23.6
7-8 AM	453	0.0	197	0.0	1500	453	0	197	0.47	0	65.5	52.2	43.7	23.3	23.3
8-9 AM	696	0.0	303	0.0	1500	696	0	303	0.49	0	65.1	51.4	42.8	22.5	22.5
9-10 AM	878	0.0	376	0.0	1500	878	0	376	0.51	0	64.8	50.9	42.1	22.0	22.0
10-11 AM	1119	0.0	466	0.0	1500	1119	0	466	0.53	0	64.3	50.1	41.2	21.2	21.2
11A-NOON	1240	0.0	493	0.0	1500	1240	0	493	0.69	0	64.1	46.8	37.2	21.1	21.1
NOON-1PM	1272	0.0	562	0.0	1500	1272	0	562	0.73	0	64.0	46.1	36.3	20.6	20.6
1-2 PM	1349	0.0	535	0.0	1499	1349	0	535	0.83	0	63.9	44.3	34.3	20.7	20.7
2-3 PM	1724	0.0	561	0.0	1499	1724	0	561	3.40	84	63.2	22.7	30.8	20.6	20.6
3-4 PM	2242	0.0	565	0.0	1500	1905	337	902	18.61	490	62.2	8.4	30.8	20.5	19.6
4-5 PM	2285	0.0	571	0.0	1499	1505	781	1352	24.86	645	62.1	7.5	30.8	20.4	16.6
5-6 PM	1854	0.0	553	0.0	1499	1348	507	1059	21.27	548	62.9	7.9	30.8	20.6	18.6
6-7 PM	1452	0.0	499	0.0	1500	1378	74	573	16.62	421	63.7	8.8	30.8	21.0	21.8
7-8 PM	1136	0.0	390	0.0	1499	1136	0	390	6.64	197	64.3	15.3	34.2	21.9	22.2
8-9 PM	859	0.0	331	0.0	1500	859	0	331	0.51	0	64.8	50.9	42.2	22.3	22.3
9-10 PM	706	0.0	307	0.0	1500	706	0	307	0.49	0	65.1	51.4	42.7	22.5	22.5
10-11 PM	653	0.0	235	0.0	1500	653	0	235	0.49	0	65.1	51.5	42.9	23.0	23.0
11PM-MID	348	0.0	155	0.0	1500	348	0	155	0.46	0	65.8	52.6	44.1	23.7	23.7

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0068
MAIN ROUTE WITH WORKS	0.0050
DIVERSION	0.0694

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$55,034
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding 15 Minutes

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**CONTINUOUS (24 HOUR) CLOSURE**  
**DIVERSION ROUTE: CTH CE - CTH N - CTH 00**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY NORTHBOUND DIRECTION**

