

STH 441: RACINE ST TO USH 10 (CALUMET AND OUTAGAMIE COUNTIES) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR WESTBOUND 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	108	0.0	1500	108	0	0.43	0	66.2	56.6	45.1
1-2 AM	68	0.0	1500	68	0	0.43	0	66.3	56.7	45.2
2-3 AM	69	0.0	1500	69	0	0.43	0	66.3	56.7	45.2
3-4 AM	115	0.0	1500	115	0	0.43	0	66.2	56.5	45.0
4-5 AM	313	0.0	1500	313	0	0.45	0	65.8	55.9	44.2
5-6 AM	971	0.0	OFF	971	0	0.00	0	64.6	64.6	64.6
6-7 AM	1896	0.0	OFF	1896	0	0.00	0	62.8	62.8	62.8
7-8 AM	2655	0.0	OFF	2655	0	0.00	0	59.3	59.3	59.3
8-9 AM	1612	0.0	OFF	1612	0	0.00	0	63.4	63.4	63.4
9-10 AM	1200	0.0	OFF	1200	0	0.00	0	64.1	64.1	64.1
10-11 AM	1194	0.0	OFF	1194	0	0.00	0	64.1	64.1	64.1
11AM-NOON	1258	0.0	OFF	1258	0	0.00	0	64.0	64.0	64.0
NOON-1PM	1369	0.0	OFF	1369	0	0.00	0	63.8	63.8	63.8
1-2 PM	1439	0.0	OFF	1439	0	0.00	0	63.7	63.7	63.7
2-3 PM	1545	0.0	OFF	1545	0	0.00	0	63.5	63.5	63.5
3-4 PM	1745	0.0	OFF	1745	0	0.00	0	63.2	63.2	63.2
4-5 PM	1980	0.0	OFF	1980	0	0.00	0	62.7	62.7	62.7
5-6 PM	1849	0.0	OFF	1849	0	0.00	0	63.0	63.0	63.0
6-7 PM	1271	0.0	OFF	1271	0	0.00	0	64.0	64.0	64.0
7-8 PM	864	0.0	1500	864	0	0.51	0	64.8	54.2	42.2
8-9 PM	712	0.0	1500	712	0	0.49	0	65.1	54.6	42.7
9-10 PM	603	0.0	1500	603	0	0.48	0	65.3	55.0	43.1
10-11 PM	398	0.0	1500	398	0	0.46	0	65.6	55.6	43.9
11PM-MID	233	0.0	1500	233	0	0.45	0	66.0	56.1	44.5

"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	0.0114
MAIN ROUTE WITH WORKS	0.0111
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$350
CONGESTED HOURS PER DAY*	0

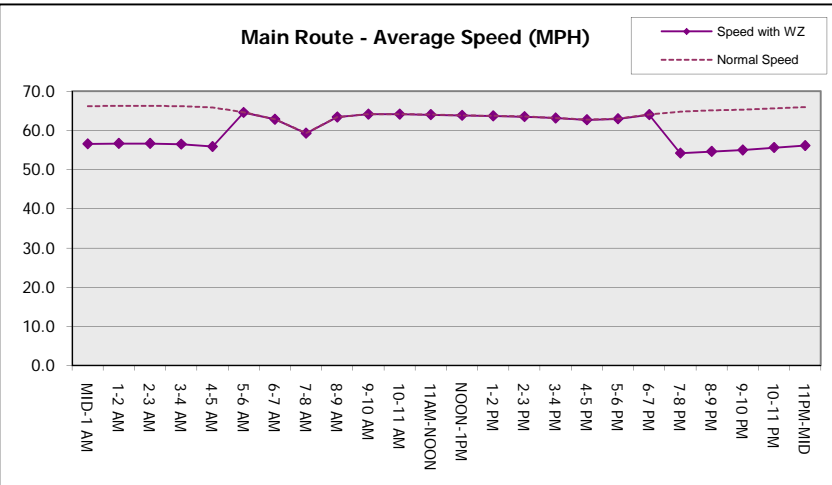
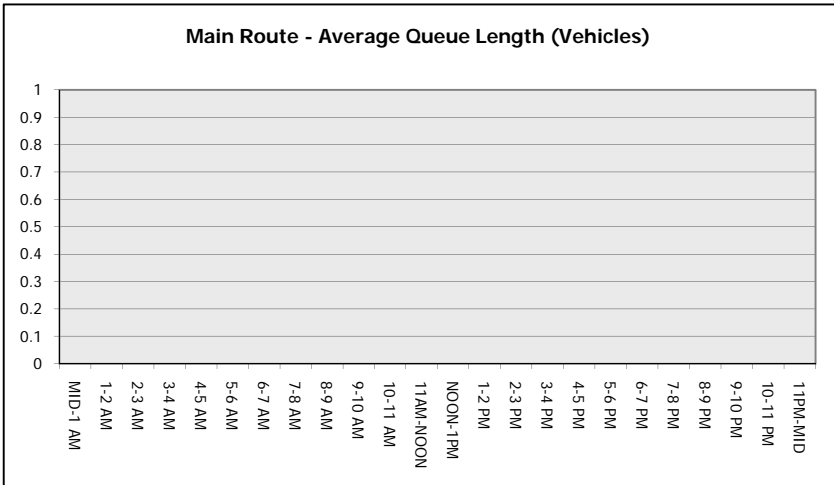
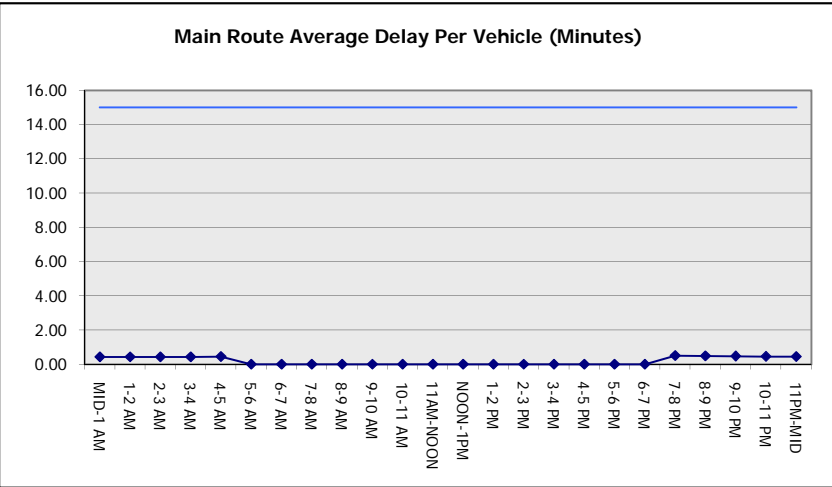
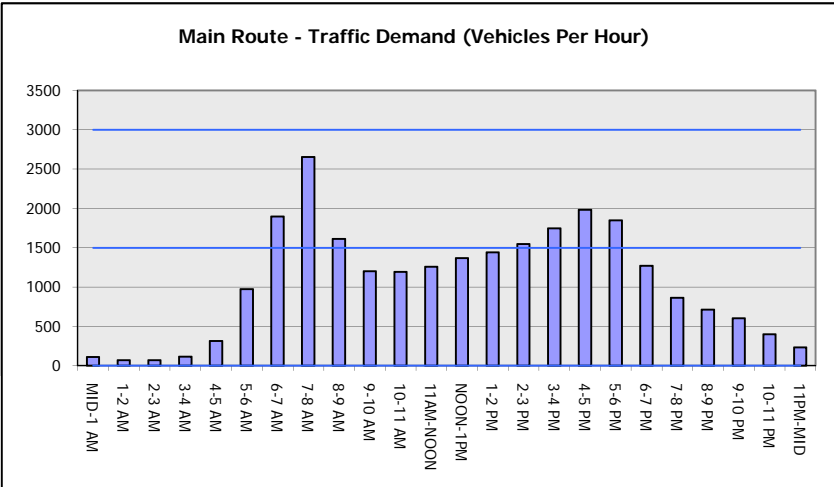
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR EASTBOUND 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	202	0.0	1500	202	0	0.44	0	66.0	56.3	44.6
1-2 AM	127	0.0	1500	127	0	0.43	0	66.1	56.5	45.0
2-3 AM	101	0.0	1500	101	0	0.43	0	66.2	56.6	45.1
3-4 AM	73	0.0	1500	73	0	0.43	0	66.3	56.6	45.2
4-5 AM	147	0.0	1500	147	0	0.44	0	66.1	56.4	44.9
5-6 AM	539	0.0	OFF	539	0	0.00	0	65.4	65.4	65.4
6-7 AM	1501	0.0	OFF	1501	0	0.00	0	63.6	63.6	63.6
7-8 AM	2296	0.0	OFF	2296	0	0.00	0	62.1	62.1	62.1
8-9 AM	1644	0.0	OFF	1644	0	0.00	0	63.3	63.3	63.3
9-10 AM	1311	0.0	OFF	1311	0	0.00	0	64.0	64.0	64.0
10-11 AM	1336	0.0	OFF	1336	0	0.00	0	63.9	63.9	63.9
11AM-NOON	1495	0.0	OFF	1495	0	0.00	0	63.6	63.6	63.6
NOON-1PM	1581	0.0	OFF	1581	0	0.00	0	63.5	63.5	63.5
1-2 PM	1641	0.0	OFF	1641	0	0.00	0	63.3	63.3	63.3
2-3 PM	2245	0.0	OFF	2245	0	0.00	0	62.2	62.2	62.2
3-4 PM	2705	0.0	OFF	2705	0	0.00	0	58.8	58.8	58.8
4-5 PM	3251	0.0	OFF	3251	0	0.00	0	53.2	53.2	53.2
5-6 PM	2851	0.0	OFF	2851	0	0.00	0	57.3	57.3	57.3
6-7 PM	1817	0.0	OFF	1817	0	0.00	0	63.0	63.0	63.0
7-8 PM	1244	0.0	1500	1244	0	0.69	0	64.1	50.7	37.1
8-9 PM	1058	0.0	1500	1058	0	0.52	0	64.4	53.7	41.5
9-10 PM	854	0.0	1500	854	0	0.51	0	64.8	54.2	42.2
10-11 PM	695	0.0	1500	695	0	0.49	0	65.1	54.7	42.8
11PM-MID	409	0.0	1500	409	0	0.46	0	65.6	55.6	43.8

"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	0.0139
MAIN ROUTE WITH WORKS	0.0136
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$559
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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MON-THUR EASTBOUND DIRECTION

