

STH 441: RACINE ST TO USH 10 (CALUMET AND OUTAGAMIE COUNTIES) OFF-PEAK DAY 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	OFF	108	0	0.00	0	66.2	66.2	66.2	
1-2 AM	68	0.0	OFF	68	0	0.00	0	66.3	66.3	66.3	
2-3 AM	69	0.0	OFF	69	0	0.00	0	66.3	66.3	66.3	
3-4 AM	115	0.0	OFF	115	0	0.00	0	66.2	66.2	66.2	
4-5 AM	313	0.0	OFF	313	0	0.00	0	65.8	65.8	65.8	
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	1500	1194	0	0.63	0	64.1	51.7	38.6	
11AM-NOON	1258	0.0	1500	1258	0	0.71	0	64.0	50.4	36.7	
NOON-1PM	1369	0.0	1500	1369	0	0.86	0	63.8	48.2	33.7	
1-2 PM	1439	0.0	1499	1439	0	0.95	0	63.7	46.9	32.1	
2-3 PM	1545	0.0	1499	1545	0	1.46	13	63.5	40.9	30.8	
3-4 PM	1745	0.0	OFF	1745	0	0.01	0	63.2	62.9	62.9	
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	OFF	864	0	0.00	0	64.8	64.8	64.8	
8-9 PM	712	0.0	OFF	712	0	0.00	0	65.1	65.1	65.1	
9-10 PM	603	0.0	OFF	603	0	0.00	0	65.3	65.3	65.3	
10-11 PM	398	0.0	OFF	398	0	0.00	0	65.6	65.6	65.6	
11PM-MID	233	0.0	OFF	233	0	0.00	0	66.0	66.0	66.0	

"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

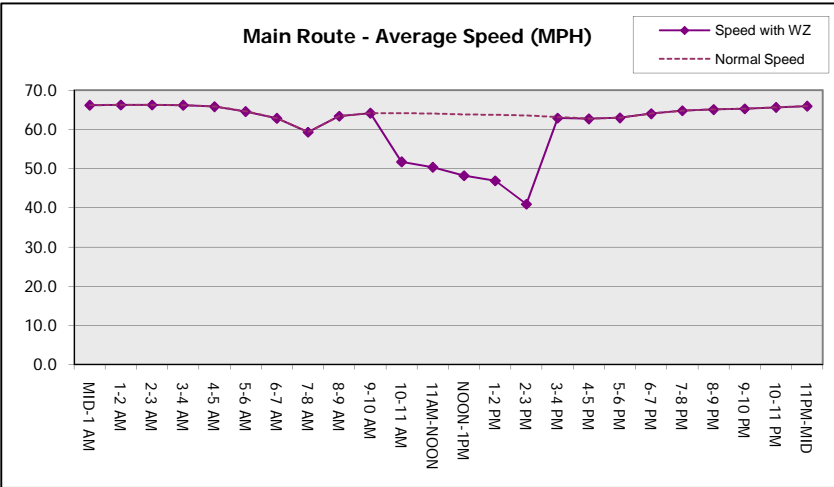
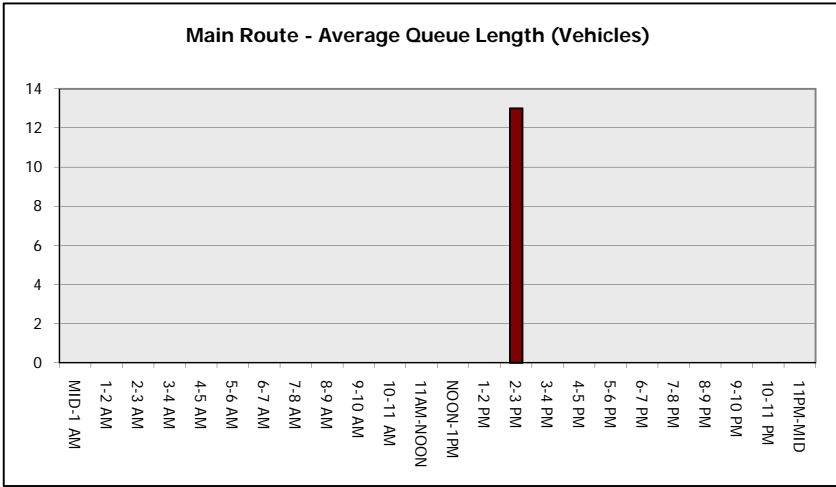
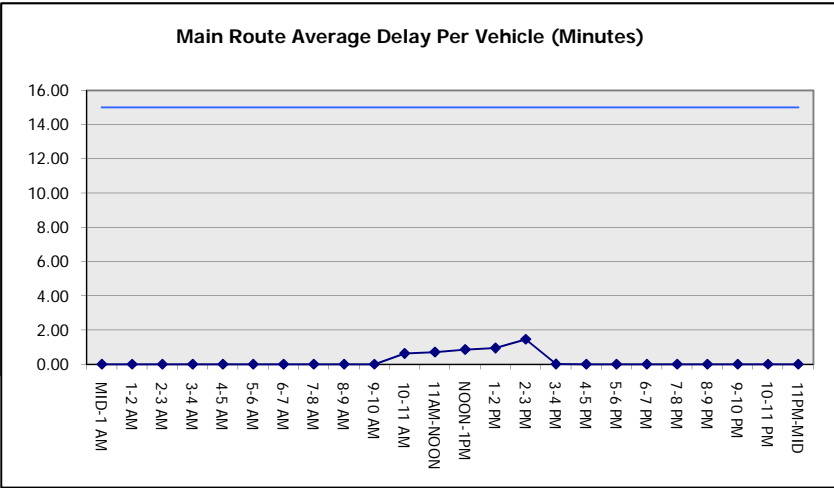
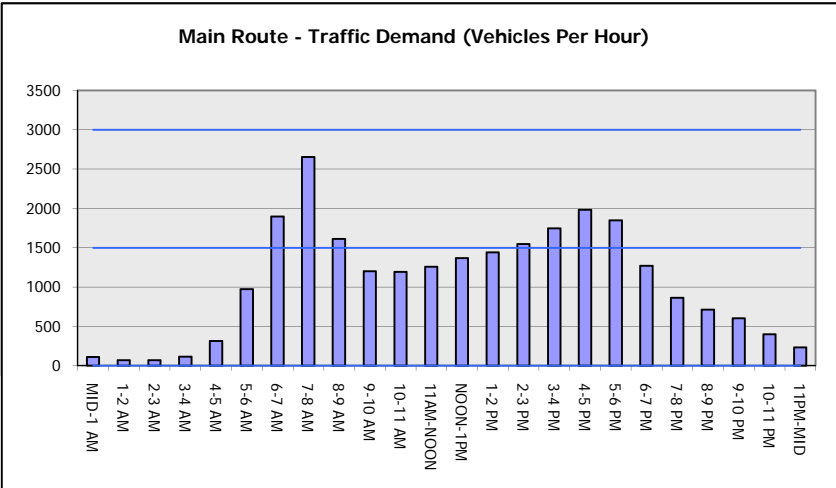
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0114
MAIN ROUTE WITH WORKS	0.0109
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,184
CONGESTED HOURS PER DAY*	0

*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	OFF	202	0	0.00	0	66.0	66.0	66.0
1-2 AM	127	0.0	OFF	127	0	0.00	0	66.1	66.1	66.1
2-3 AM	101	0.0	OFF	101	0	0.00	0	66.2	66.2	66.2
3-4 AM	73	0.0	OFF	73	0	0.00	0	66.3	66.3	66.3
4-5 AM	147	0.0	OFF	147	0	0.00	0	66.1	66.1	66.1
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	1499	1336	0	0.81	0	63.9	48.8	34.5
11AM-NOON	1495	0.0	1499	1495	0	1.11	3	63.6	44.8	31.2
NOON-1PM	1581	0.0	1500	1581	0	2.71	48	63.5	31.4	30.8
1-2 PM	1641	0.0	1499	1641	0	6.11	143	63.3	19.2	30.8
2-3 PM	2245	0.0	1500	1751	494	15.43+	394	62.2	10.2	30.8
3-4 PM	2705	0.0	OFF	2705	0	1.63	91	58.8	37.4	37.4
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	OFF	1244	0	0.00	0	64.1	64.1	64.1
8-9 PM	1058	0.0	OFF	1058	0	0.00	0	64.4	64.4	64.4
9-10 PM	854	0.0	OFF	854	0	0.00	0	64.8	64.8	64.8
10-11 PM	695	0.0	OFF	695	0	0.00	0	65.1	65.1	65.1
11PM-MID	409	0.0	OFF	409	0	0.00	0	65.6	65.6	65.6

"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	0.0
(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	0
(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	0.0131
'DIVERSION'	0.0005

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$10,276
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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MON-THUR EASTBOUND DIRECTION

