

STH 29: 40TH ST TO CTH T (CHIPPEWA COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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		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	47	0.0	1500	47	0	0.50	0	63.8	50.9	41.9
1-2 AM	37	0.0	1500	37	0	0.50	0	63.8	50.9	41.9
2-3 AM	41	0.0	1500	41	0	0.50	0	63.8	50.9	41.9
3-4 AM	43	0.0	1500	43	0	0.50	0	63.8	50.9	41.9
4-5 AM	65	0.0	1500	65	0	0.50	0	63.8	50.8	41.8
5-6 AM	85	0.0	1500	85	0	0.51	0	63.7	50.7	41.7
6-7 AM	113	0.0	1500	113	0	0.51	0	63.7	50.7	41.6
7-8 AM	185	0.0	1500	185	0	0.52	0	63.5	50.4	41.4
8-9 AM	295	0.0	1500	295	0	0.53	0	63.3	50.1	41.0
9-10 AM	367	0.0	1500	367	0	0.53	0	63.2	49.9	40.7
10-11 AM	394	0.0	1500	394	0	0.54	0	63.2	49.8	40.7
11AM-NOON	398	0.0	1500	398	0	0.54	0	63.2	49.7	40.6
NOON-1PM	376	0.0	1500	376	0	0.53	0	63.2	49.8	40.7
1-2 PM	361	0.0	1500	361	0	0.53	0	63.2	49.9	40.7
2-3 PM	371	0.0	1500	371	0	0.53	0	63.2	49.9	40.7
3-4 PM	349	0.0	1500	349	0	0.53	0	63.3	49.9	40.8
4-5 PM	324	0.0	1500	324	0	0.53	0	63.3	50.0	40.9
5-6 PM	281	0.0	1500	281	0	0.53	0	63.4	50.1	41.0
6-7 PM	257	0.0	1500	257	0	0.52	0	63.4	50.2	41.1
7-8 PM	229	0.0	1500	229	0	0.52	0	63.5	50.3	41.2
8-9 PM	193	0.0	1500	193	0	0.52	0	63.5	50.4	41.3
9-10 PM	139	0.0	1500	139	0	0.51	0	63.7	50.5	41.5
10-11 PM	103	0.0	1500	103	0	0.51	0	63.7	50.7	41.6
11PM-MID	67	0.0	1500	67	0	0.51	0	63.8	50.8	41.8

----- 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	0.0018
MAIN ROUTE WITH WORKS	0.0023
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

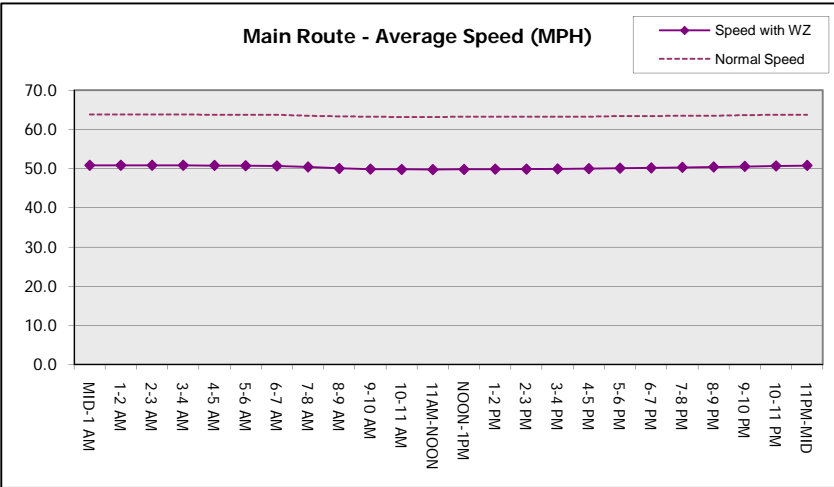
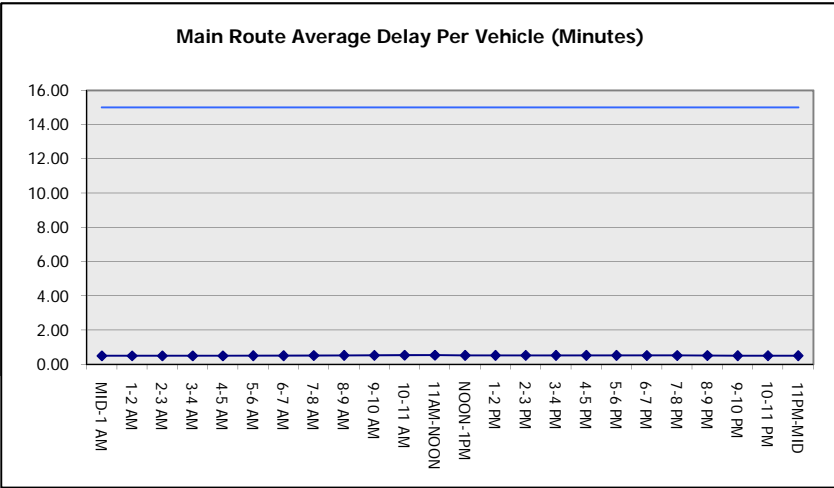
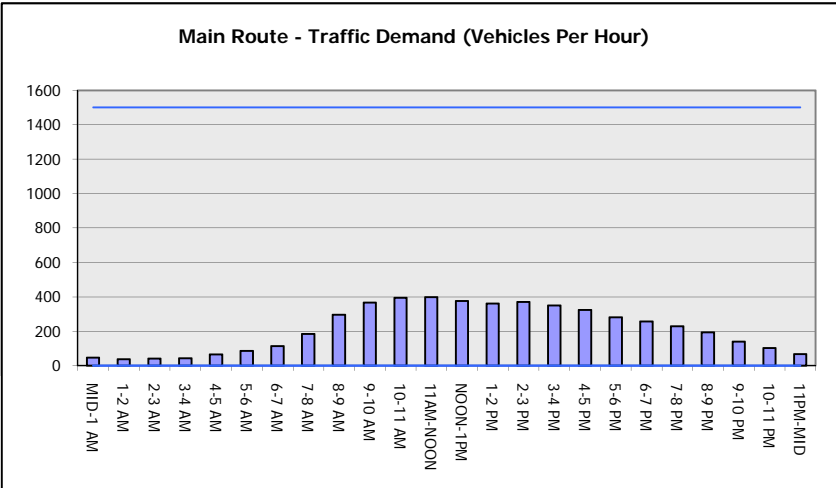
ROAD USER COSTS PER DAY	\$685
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	67	0.0	1500	67	0	0.51	0	63.8	50.8	41.8
1-2 AM	45	0.0	1500	45	0	0.50	0	63.8	50.9	41.9
2-3 AM	31	0.0	1500	31	0	0.50	0	63.8	50.9	41.9
3-4 AM	43	0.0	1500	43	0	0.50	0	63.8	50.9	41.9
4-5 AM	61	0.0	1500	61	0	0.50	0	63.8	50.8	41.8
5-6 AM	114	0.0	1500	114	0	0.51	0	63.7	50.6	41.6
6-7 AM	168	0.0	1500	168	0	0.51	0	63.6	50.5	41.4
7-8 AM	265	0.0	1500	265	0	0.52	0	63.4	50.2	41.0
8-9 AM	360	0.0	1500	360	0	0.53	0	63.2	49.9	40.7
9-10 AM	460	0.0	1500	460	0	0.54	0	63.0	49.6	40.4
10-11 AM	505	0.0	1500	505	0	0.55	0	63.0	49.4	40.3
11AM-NOON	474	0.0	1500	474	0	0.54	0	63.0	49.6	40.4
NOON-1PM	407	0.0	1500	407	0	0.54	0	63.2	49.7	40.6
1-2 PM	369	0.0	1500	369	0	0.53	0	63.2	49.9	40.7
2-3 PM	338	0.0	1500	338	0	0.53	0	63.3	49.9	40.9
3-4 PM	334	0.0	1500	334	0	0.53	0	63.3	50.0	40.9
4-5 PM	327	0.0	1500	327	0	0.53	0	63.3	50.0	40.9
5-6 PM	273	0.0	1500	273	0	0.52	0	63.4	50.2	41.0
6-7 PM	214	0.0	1500	214	0	0.52	0	63.5	50.3	41.2
7-8 PM	179	0.0	1500	179	0	0.52	0	63.6	50.4	41.4
8-9 PM	181	0.0	1500	181	0	0.52	0	63.6	50.4	41.4
9-10 PM	137	0.0	1500	137	0	0.51	0	63.7	50.5	41.5
10-11 PM	97	0.0	1500	97	0	0.51	0	63.7	50.7	41.7
11PM-MID	72	0.0	1500	72	0	0.51	0	63.8	50.8	41.7

----- 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	0.0019
MAIN ROUTE WITH WORKS	0.0025
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$742
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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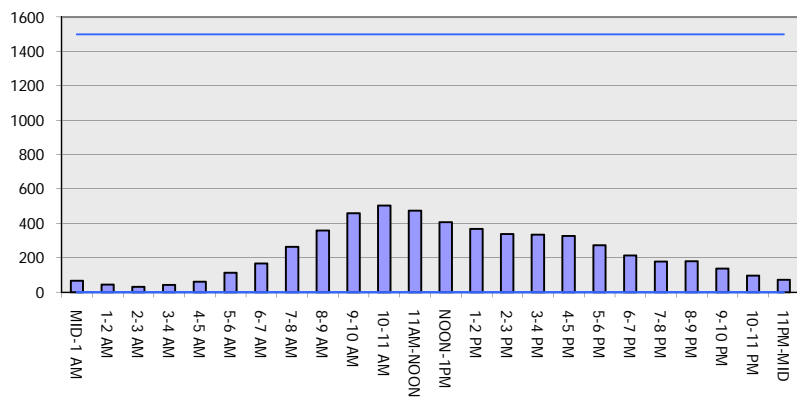
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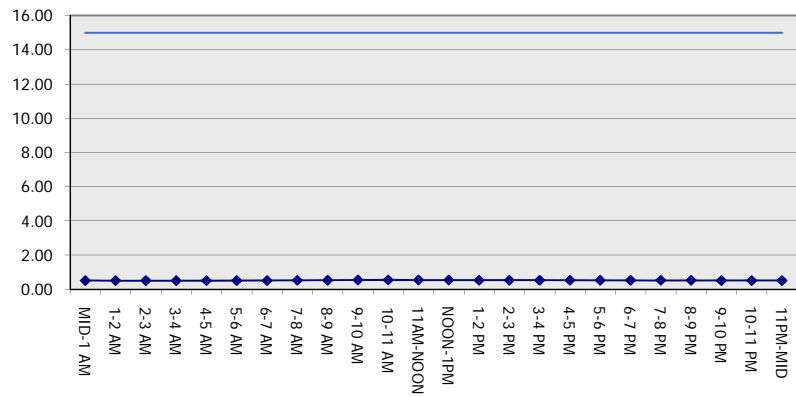
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY NORTHBOUND DIRECTION

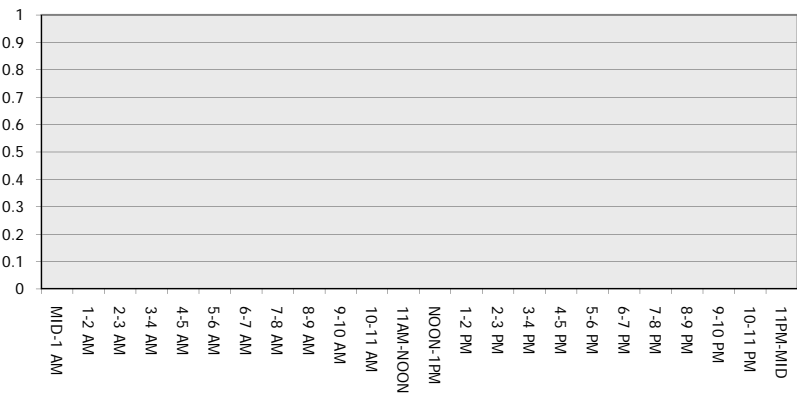
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

