

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

SUNDAY 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	39	0.0	1500	39	0	0.50	0	63.8	50.9	41.9
1-2 AM	27	0.0	1500	27	0	0.50	0	63.8	50.9	41.9
2-3 AM	28	0.0	1500	28	0	0.50	0	63.8	50.9	41.9
3-4 AM	30	0.0	1500	30	0	0.50	0	63.8	50.9	41.9
4-5 AM	43	0.0	1500	43	0	0.50	0	63.8	50.9	41.9
5-6 AM	52	0.0	1500	52	0	0.50	0	63.8	50.9	41.8
6-7 AM	83	0.0	1500	83	0	0.51	0	63.8	50.7	41.7
7-8 AM	135	0.0	1500	135	0	0.51	0	63.7	50.5	41.5
8-9 AM	223	0.0	1500	223	0	0.52	0	63.5	50.3	41.2
9-10 AM	327	0.0	1500	327	0	0.53	0	63.3	50.0	40.9
10-11 AM	423	0.0	1500	423	0	0.54	0	63.1	49.7	40.6
11AM-NOON	537	0.0	1500	537	0	0.55	0	62.9	49.4	40.2
NOON-1PM	585	0.0	1500	585	0	0.55	0	62.8	49.2	40.0
1-2 PM	668	0.0	1500	668	0	0.56	0	62.7	49.0	39.7
2-3 PM	703	0.0	1500	703	0	0.57	0	62.6	48.9	39.6
3-4 PM	695	0.0	1500	695	0	0.56	0	62.6	48.9	39.7
4-5 PM	642	0.0	1500	642	0	0.56	0	62.7	49.1	39.8
5-6 PM	561	0.0	1500	561	0	0.55	0	62.8	49.3	40.1
6-7 PM	446	0.0	1500	446	0	0.54	0	63.1	49.6	40.5
7-8 PM	401	0.0	1500	401	0	0.54	0	63.2	49.7	40.6
8-9 PM	291	0.0	1500	291	0	0.53	0	63.3	50.1	41.0
9-10 PM	208	0.0	1500	208	0	0.52	0	63.5	50.4	41.3
10-11 PM	113	0.0	1500	113	0	0.51	0	63.7	50.7	41.6
11PM-MID	77	0.0	1500	77	0	0.51	0	63.8	50.7	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	0.0025
MAIN ROUTE WITH WORKS	0.0033
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

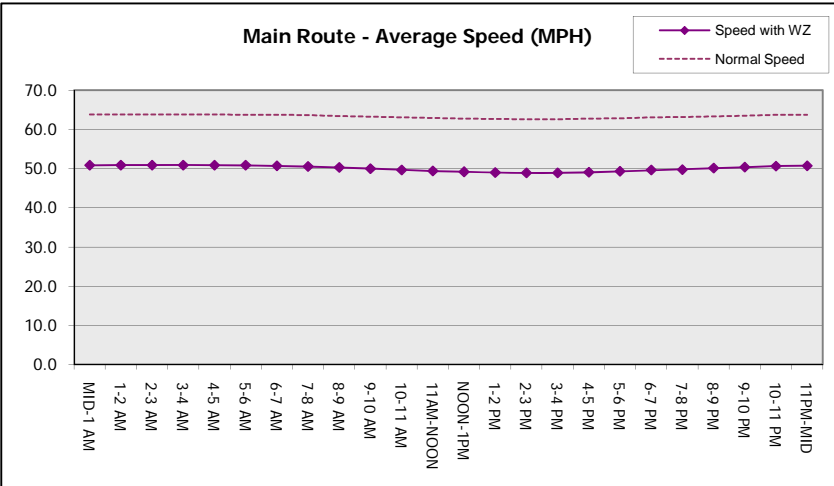
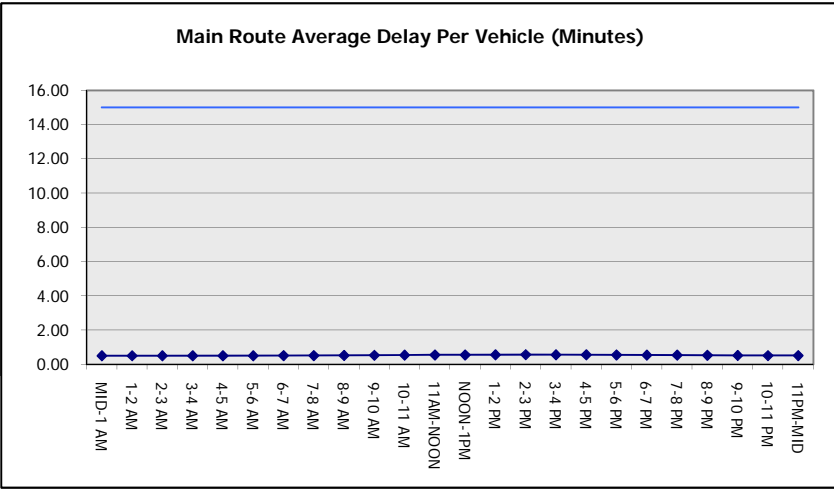
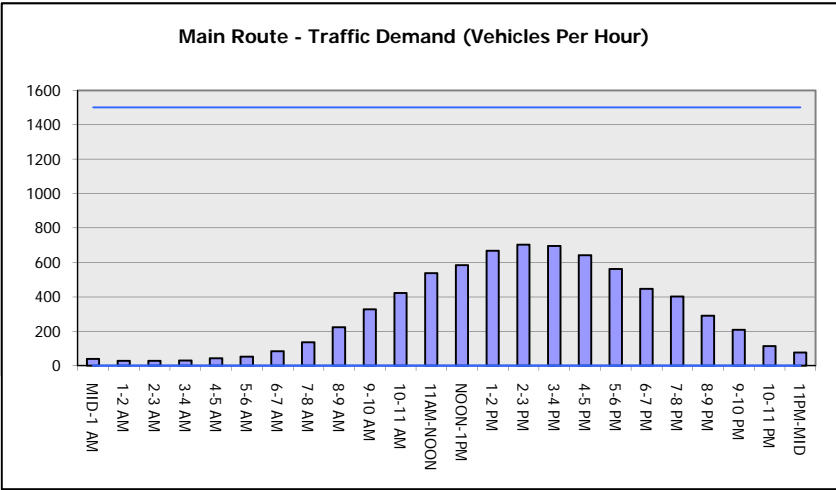
ROAD USER COSTS PER DAY	\$1,038
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	51	0.0	1500	51	0	0.50	0	63.8	50.9	41.8
1-2 AM	30	0.0	1500	30	0	0.50	0	63.8	50.9	41.9
2-3 AM	23	0.0	1500	23	0	0.50	0	63.8	50.9	41.9
3-4 AM	22	0.0	1500	22	0	0.50	0	63.8	50.9	41.9
4-5 AM	34	0.0	1500	34	0	0.50	0	63.8	50.9	41.9
5-6 AM	59	0.0	1500	59	0	0.50	0	63.8	50.8	41.8
6-7 AM	97	0.0	1500	97	0	0.51	0	63.7	50.7	41.7
7-8 AM	159	0.0	1500	159	0	0.51	0	63.6	50.5	41.4
8-9 AM	235	0.0	1500	235	0	0.52	0	63.5	50.2	41.2
9-10 AM	326	0.0	1500	326	0	0.53	0	63.3	50.0	40.9
10-11 AM	414	0.0	1500	414	0	0.54	0	63.2	49.7	40.6
11AM-NOON	426	0.0	1500	426	0	0.54	0	63.1	49.7	40.6
NOON-1PM	417	0.0	1500	417	0	0.54	0	63.1	49.7	40.6
1-2 PM	442	0.0	1500	442	0	0.54	0	63.1	49.6	40.5
2-3 PM	430	0.0	1500	430	0	0.54	0	63.1	49.7	40.6
3-4 PM	435	0.0	1500	435	0	0.54	0	63.1	49.7	40.5
4-5 PM	436	0.0	1500	436	0	0.54	0	63.1	49.7	40.5
5-6 PM	395	0.0	1500	395	0	0.54	0	63.2	49.8	40.6
6-7 PM	313	0.0	1500	313	0	0.53	0	63.3	50.1	40.9
7-8 PM	256	0.0	1500	256	0	0.52	0	63.4	50.2	41.1
8-9 PM	197	0.0	1500	197	0	0.52	0	63.5	50.4	41.3
9-10 PM	126	0.0	1500	126	0	0.51	0	63.7	50.6	41.5
10-11 PM	84	0.0	1500	84	0	0.51	0	63.7	50.7	41.7
11PM-MID	59	0.0	1500	59	0	0.50	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	0.0019
MAIN ROUTE WITH WORKS	0.0025
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$754
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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