

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

FRIDAY 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	46	0.0	1500	46	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	49	0.0	1500	49	0	0.50	0	63.8	50.9	41.9
3-4 AM	79	0.0	1500	79	0	0.51	0	63.8	50.7	41.7
4-5 AM	149	0.0	1500	149	0	0.51	0	63.7	50.5	41.5
5-6 AM	211	0.0	1500	211	0	0.52	0	63.5	50.4	41.2
6-7 AM	257	0.0	1500	257	0	0.52	0	63.4	50.2	41.1
7-8 AM	275	0.0	1500	275	0	0.52	0	63.4	50.1	41.0
8-9 AM	287	0.0	1500	287	0	0.53	0	63.3	50.1	41.0
9-10 AM	340	0.0	1500	340	0	0.53	0	63.3	49.9	40.8
10-11 AM	399	0.0	1500	399	0	0.54	0	63.2	49.7	40.6
11AM-NOON	415	0.0	1500	415	0	0.54	0	63.2	49.7	40.6
NOON-1PM	467	0.0	1500	467	0	0.54	0	63.0	49.6	40.4
1-2 PM	494	0.0	1500	494	0	0.55	0	63.0	49.5	40.3
2-3 PM	516	0.0	1500	516	0	0.55	0	63.0	49.4	40.2
3-4 PM	521	0.0	1500	521	0	0.55	0	62.9	49.4	40.2
4-5 PM	529	0.0	1500	529	0	0.55	0	62.9	49.4	40.2
5-6 PM	485	0.0	1500	485	0	0.54	0	63.0	49.5	40.4
6-7 PM	341	0.0	1500	341	0	0.53	0	63.3	49.9	40.8
7-8 PM	300	0.0	1500	300	0	0.53	0	63.3	50.1	41.0
8-9 PM	215	0.0	1500	215	0	0.52	0	63.5	50.3	41.2
9-10 PM	168	0.0	1500	168	0	0.51	0	63.6	50.5	41.4
10-11 PM	96	0.0	1500	96	0	0.51	0	63.7	50.7	41.7
11PM-MID	76	0.0	1500	76	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	0.0023
MAIN ROUTE WITH WORKS	0.0031
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

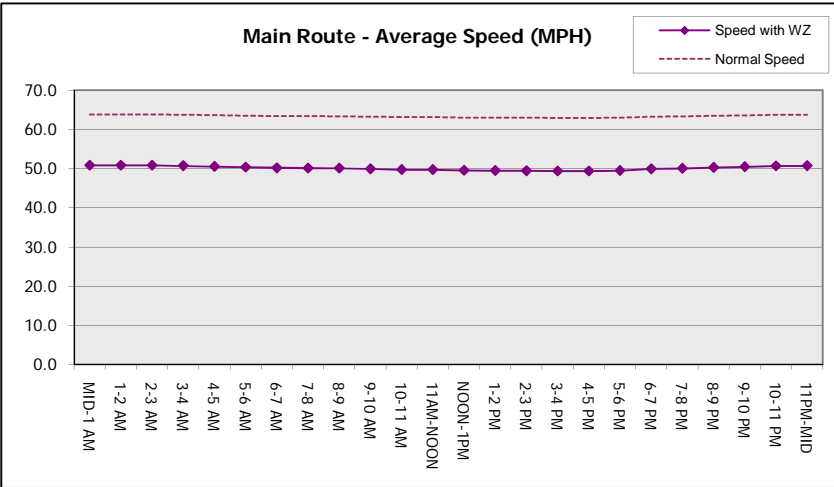
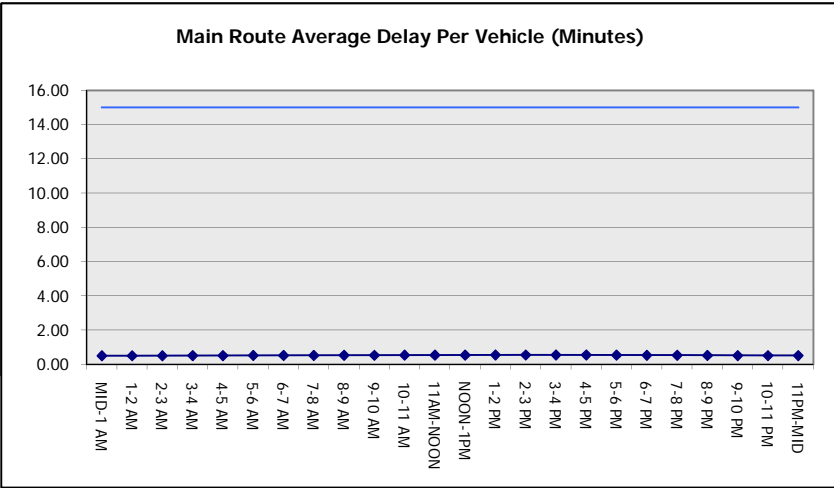
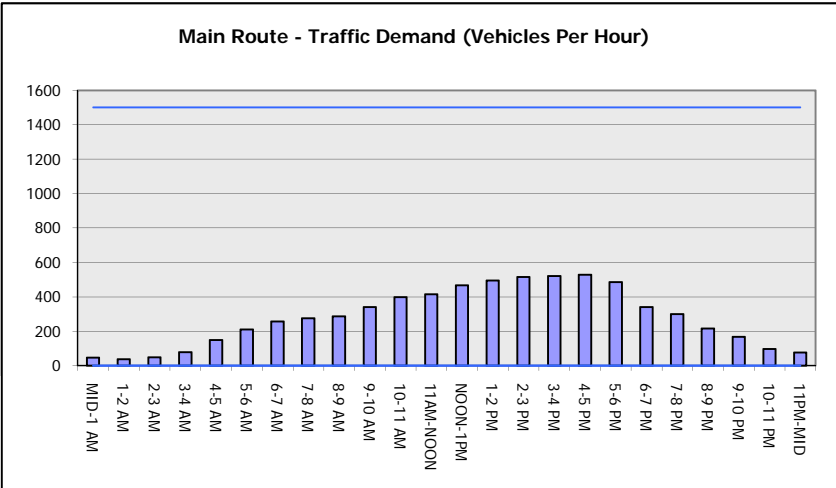
ROAD USER COSTS PER DAY	\$752
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	61	0.0	1500	61	0	0.50	0	63.8	50.8	41.8
1-2 AM	51	0.0	1500	51	0	0.50	0	63.8	50.9	41.8
2-3 AM	48	0.0	1500	48	0	0.50	0	63.8	50.9	41.9
3-4 AM	59	0.0	1500	59	0	0.50	0	63.8	50.8	41.8
4-5 AM	109	0.0	1500	109	0	0.51	0	63.7	50.7	41.6
5-6 AM	213	0.0	1500	213	0	0.52	0	63.5	50.4	41.2
6-7 AM	318	0.0	1500	318	0	0.53	0	63.3	50.0	40.9
7-8 AM	356	0.0	1500	356	0	0.53	0	63.2	49.9	40.8
8-9 AM	354	0.0	1500	354	0	0.53	0	63.2	49.9	40.8
9-10 AM	439	0.0	1500	439	0	0.54	0	63.1	49.6	40.5
10-11 AM	499	0.0	1500	499	0	0.55	0	63.0	49.5	40.3
11AM-NOON	512	0.0	1500	512	0	0.55	0	63.0	49.4	40.2
NOON-1PM	540	0.0	1500	540	0	0.55	0	62.9	49.4	40.2
1-2 PM	648	0.0	1500	648	0	0.56	0	62.7	49.0	39.8
2-3 PM	725	0.0	1500	725	0	0.57	0	62.5	48.8	39.6
3-4 PM	732	0.0	1500	732	0	0.57	0	62.5	48.7	39.6
4-5 PM	675	0.0	1500	675	0	0.56	0	62.7	48.9	39.7
5-6 PM	640	0.0	1500	640	0	0.56	0	62.7	49.1	39.9
6-7 PM	541	0.0	1500	541	0	0.55	0	62.9	49.4	40.2
7-8 PM	400	0.0	1500	400	0	0.54	0	63.2	49.7	40.6
8-9 PM	298	0.0	1500	298	0	0.53	0	63.3	50.1	41.0
9-10 PM	213	0.0	1500	213	0	0.52	0	63.5	50.4	41.2
10-11 PM	155	0.0	1500	155	0	0.51	0	63.6	50.5	41.5
11PM-MID	117	0.0	1500	117	0	0.51	0	63.7	50.6	41.6

----- 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	0.0030
MAIN ROUTE WITH WORKS	0.0040
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$991
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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