

STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47	OCTOBER
	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		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	130	0.0	39	0.0	1500	130	0	39	0.44	0	66.1	47.3	45.0	24.5	24.5
1-2 AM	105	0.0	32	0.0	1500	105	0	32	0.43	0	66.2	47.3	45.1	24.6	24.6
2-3 AM	94	0.0	29	0.0	1500	94	0	29	0.43	0	66.2	47.4	45.1	24.6	24.6
3-4 AM	139	0.0	42	0.0	1500	139	0	42	0.44	0	66.1	47.2	44.9	24.5	24.5
4-5 AM	424	0.0	130	0.0	1500	424	0	130	0.46	0	65.6	46.1	43.8	23.8	23.8
5-6 AM	1339	0.0	411	0.0	OFF	1339	0	411	0.00	0	63.9	63.9	63.9	21.7	21.7
6-7 AM	2490	0.0	764	0.0	OFF	2490	0	764	0.00	0	61.0	61.0	61.0	19.0	19.0
7-8 AM	3707	0.0	1138	0.0	OFF	3707	0	1138	0.00	0	48.5	48.5	48.5	16.1	16.1
8-9 AM	2355	0.0	723	0.0	OFF	2355	0	723	0.00	0	62.0	62.0	62.0	19.3	19.3
9-10 AM	1649	0.0	505	0.0	OFF	1649	0	505	0.00	0	63.3	63.3	63.3	21.0	21.0
10-11 AM	1604	0.0	492	0.0	OFF	1604	0	492	0.00	0	63.4	63.4	63.4	21.1	21.1
11A-NOON	1722	0.0	528	0.0	OFF	1722	0	528	0.00	0	63.2	63.2	63.2	20.8	20.8
NOON-1PM	1844	0.0	565	0.0	OFF	1844	0	565	0.00	0	63.0	63.0	63.0	20.5	20.5
1-2 PM	2008	0.0	616	0.0	OFF	2008	0	616	0.00	0	62.7	62.7	62.7	20.1	20.1
2-3 PM	2080	0.0	637	0.0	OFF	2080	0	637	0.00	0	62.5	62.5	62.5	19.9	19.9
3-4 PM	2441	0.0	748	0.0	OFF	2441	0	748	0.00	0	61.5	61.5	61.5	19.1	19.1
4-5 PM	2750	0.0	843	0.0	OFF	2750	0	843	0.00	0	58.3	58.3	58.3	18.4	18.4
5-6 PM	2635	0.0	807	0.0	OFF	2635	0	807	0.00	0	59.5	59.5	59.5	18.6	18.6
6-7 PM	1742	0.0	534	0.0	OFF	1742	0	534	0.00	0	63.2	63.2	63.2	20.7	20.7
7-8 PM	1088	0.0	334	0.0	1500	1088	0	334	0.53	0	64.3	43.7	41.4	22.3	22.3
8-9 PM	895	0.0	274	0.0	1500	895	0	274	0.51	0	64.7	44.4	42.0	22.7	22.7
9-10 PM	863	0.0	265	0.0	1500	863	0	265	0.51	0	64.8	44.5	42.2	22.8	22.8
10-11 PM	568	0.0	174	0.0	1500	568	0	174	0.48	0	65.3	45.6	43.2	23.5	23.5
11PM-MID	298	0.0	92	0.0	1500	298	0	92	0.45	0	65.8	46.6	44.3	24.2	24.2

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0067
MAIN ROUTE WITH WORKS	0.0064
DIVERSION	0.0856

PIA: Personal Injury Accidents

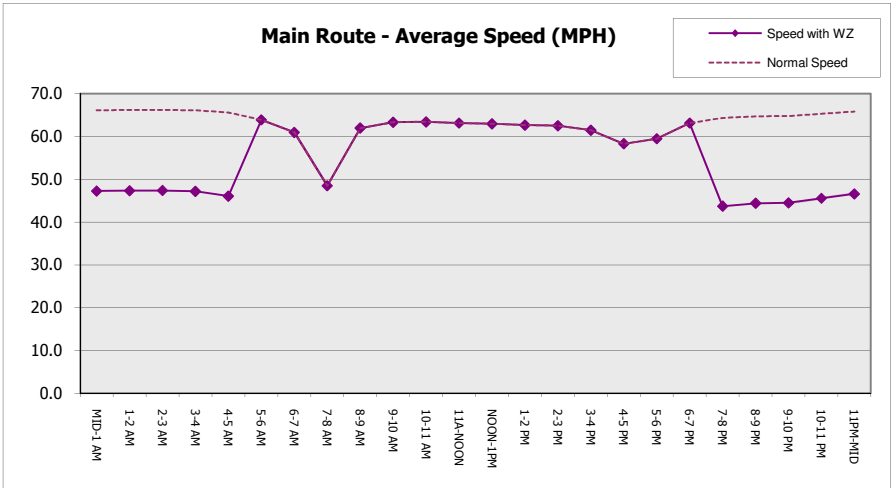
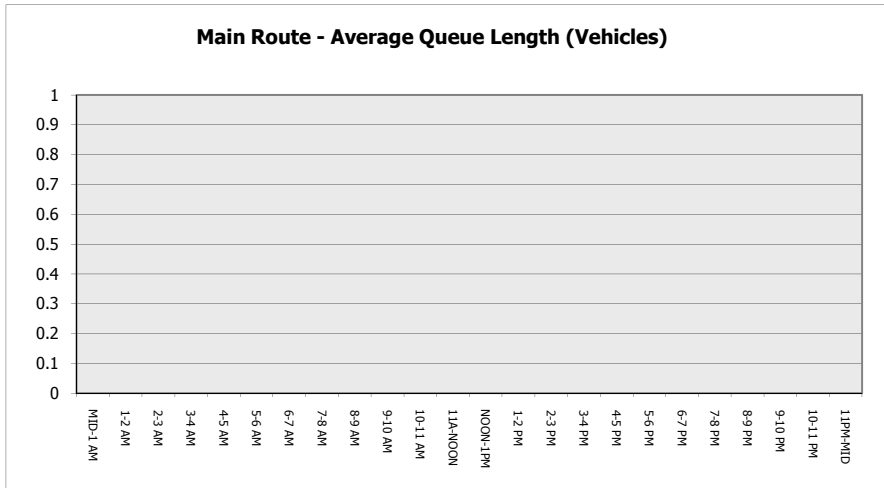
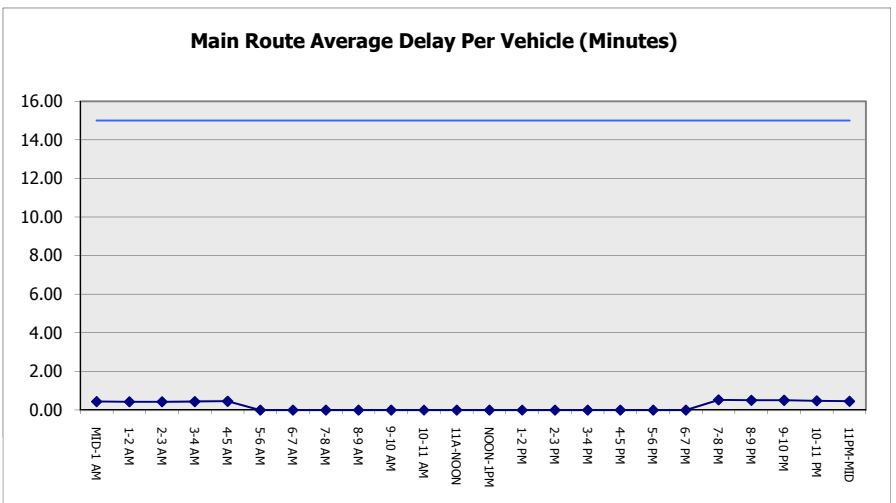
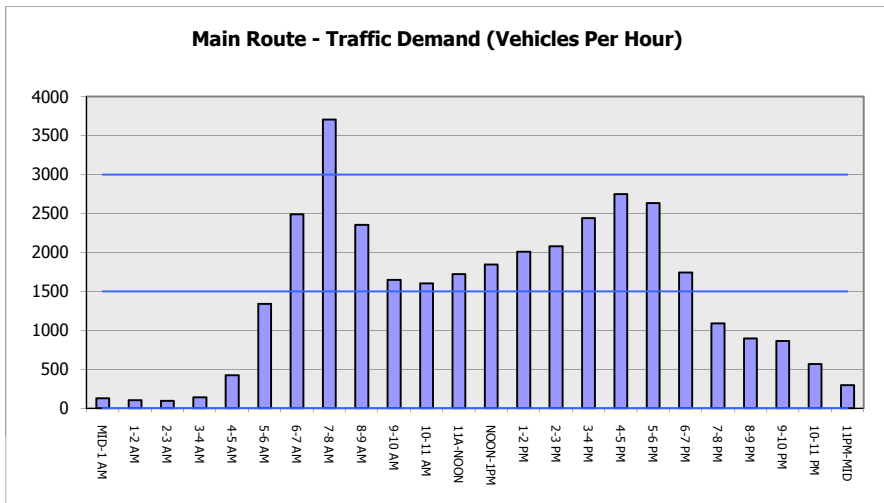
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$510
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME CLOSURE
DIVERSION ROUTE: PROSPECT AVENUE - STH 47

OCTOBER
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR WESTBOUND DIRECTION



STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47	OCTOBER
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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		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	311	0.0	94	0.0	1500	311	0	94	0.45	0	65.8	46.5	44.2	24.1	24.1
1-2 AM	208	0.0	63	0.0	1500	208	0	63	0.44	0	66.0	46.9	44.6	24.3	24.3
2-3 AM	181	0.0	55	0.0	1500	181	0	55	0.44	0	66.1	47.0	44.8	24.4	24.4
3-4 AM	95	0.0	30	0.0	1500	95	0	30	0.43	0	66.2	47.4	45.1	24.6	24.6
4-5 AM	205	0.0	63	0.0	1500	205	0	63	0.44	0	66.0	46.9	44.6	24.3	24.3
5-6 AM	730	0.0	224	0.0	OFF	730	0	224	0.00	0	65.0	65.0	65.0	23.1	23.1
6-7 AM	1934	0.0	593	0.0	OFF	1934	0	593	0.00	0	62.8	62.8	62.8	20.3	20.3
7-8 AM	3125	0.0	958	0.0	OFF	3125	0	958	0.00	0	54.5	54.5	54.5	17.5	17.5
8-9 AM	2230	0.0	684	0.0	OFF	2230	0	684	0.00	0	62.2	62.2	62.2	19.6	19.6
9-10 AM	1742	0.0	534	0.0	OFF	1742	0	534	0.00	0	63.2	63.2	63.2	20.7	20.7
10-11 AM	1808	0.0	555	0.0	OFF	1808	0	555	0.00	0	63.0	63.0	63.0	20.6	20.6
11A-NOON	1972	0.0	605	0.0	OFF	1972	0	605	0.00	0	62.7	62.7	62.7	20.2	20.2
NOON-1PM	2151	0.0	660	0.0	OFF	2151	0	660	0.00	0	62.3	62.3	62.3	19.7	19.7
1-2 PM	2198	0.0	674	0.0	OFF	2198	0	674	0.00	0	62.3	62.3	62.3	19.7	19.7
2-3 PM	2933	0.0	900	0.0	OFF	2933	0	900	0.00	0	56.4	56.4	56.4	17.9	17.9
3-4 PM	3635	0.0	1115	0.0	OFF	3635	0	1115	0.00	0	49.2	49.2	49.2	16.3	16.3
4-5 PM	4399	0.0	1349	0.0	OFF	4399	0	1349	0.00	0	41.4	41.4	41.4	14.5	14.5
5-6 PM	3883	0.0	1189	0.0	OFF	3883	0	1189	0.00	0	46.7	46.7	46.7	15.7	15.7
6-7 PM	2509	0.0	769	0.0	OFF	2509	0	769	0.00	0	60.8	60.8	60.8	18.9	18.9
7-8 PM	1557	0.0	478	0.0	1499	1557	0	478	3.40	65	63.5	17.0	30.8	21.2	21.4
8-9 PM	1316	0.0	404	0.0	1500	1316	0	404	1.15	13	64.0	31.7	34.6	21.7	21.7
9-10 PM	1054	0.0	323	0.0	1500	1054	0	323	0.52	0	64.4	43.8	41.5	22.4	22.4
10-11 PM	864	0.0	265	0.0	1500	864	0	265	0.51	0	64.8	44.5	42.2	22.8	22.8
11PM-MID	530	0.0	163	0.0	1500	530	0	163	0.47	0	65.4	45.7	43.4	23.6	23.6

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0079
MAIN ROUTE WITH WORKS	0.0075
DIVERSION	0.1018

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,899
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME CLOSURE
DIVERSION ROUTE: PROSPECT AVENUE - STH 47

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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR EASTBOUND DIRECTION

