

**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**

SATURDAY 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	313	0.0	96	0.0	1500	313	0	96	0.45	0	65.8	46.5	44.2	24.1	24.1
1-2 AM	202	0.0	62	0.0	1500	202	0	62	0.44	0	66.0	46.9	44.6	24.3	24.3
2-3 AM	182	0.0	56	0.0	1500	182	0	56	0.44	0	66.1	47.0	44.8	24.4	24.4
3-4 AM	136	0.0	42	0.0	1500	136	0	42	0.44	0	66.1	47.2	45.0	24.5	24.5
4-5 AM	247	0.0	76	0.0	1500	247	0	76	0.45	0	66.0	46.8	44.5	24.3	24.3
5-6 AM	467	0.0	143	0.0	1500	467	0	143	0.47	0	65.5	46.0	43.7	23.7	23.7
6-7 AM	695	0.0	213	0.0	1500	695	0	213	0.49	0	65.1	45.1	42.8	23.2	23.2
7-8 AM	1109	0.0	340	0.0	1500	1109	0	340	0.53	0	64.3	43.7	41.3	22.2	22.2
8-9 AM	1406	0.0	431	0.0	OFF	1406	0	431	0.00	0	63.8	63.8	63.8	21.5	21.5
9-10 AM	1529	0.0	468	0.0	OFF	1529	0	468	0.00	0	63.5	63.5	63.5	21.2	21.2
10-11 AM	1814	0.0	556	0.0	OFF	1814	0	556	0.00	0	63.0	63.0	63.0	20.6	20.6
11A-NOON	1800	0.0	552	0.0	OFF	1800	0	552	0.00	0	63.0	63.0	63.0	20.6	20.6
NOON-1PM	1907	0.0	585	0.0	OFF	1907	0	585	0.00	0	62.8	62.8	62.8	20.4	20.4
1-2 PM	1823	0.0	559	0.0	OFF	1823	0	559	0.00	0	63.0	63.0	63.0	20.6	20.6
2-3 PM	1762	0.0	540	0.0	OFF	1762	0	540	0.00	0	63.1	63.1	63.1	20.7	20.7
3-4 PM	1661	0.0	510	0.0	OFF	1661	0	510	0.00	0	63.3	63.3	63.3	20.9	20.9
4-5 PM	1511	0.0	463	0.0	OFF	1511	0	463	0.00	0	63.6	63.6	63.6	21.3	21.3
5-6 PM	1511	0.0	463	0.0	OFF	1511	0	463	0.00	0	63.6	63.6	63.6	21.3	21.3
6-7 PM	1369	0.0	419	0.0	1500	1369	0	419	0.85	0	63.8	36.3	33.7	21.6	21.6
7-8 PM	1017	0.0	312	0.0	1500	1017	0	312	0.52	0	64.5	44.0	41.6	22.4	22.4
8-9 PM	874	0.0	268	0.0	1500	874	0	268	0.51	0	64.8	44.5	42.1	22.8	22.8
9-10 PM	747	0.0	230	0.0	1500	747	0	230	0.49	0	65.0	44.9	42.6	23.1	23.1
10-11 PM	615	0.0	188	0.0	1500	615	0	188	0.48	0	65.3	45.4	43.1	23.4	23.4
11PM-MID	425	0.0	130	0.0	1500	425	0	130	0.46	0	65.6	46.1	43.8	23.8	23.8

"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	0.0048
MAIN ROUTE WITH WORKS	0.0042
DIVERSION	0.0615

PIA: Personal Injury Accidents

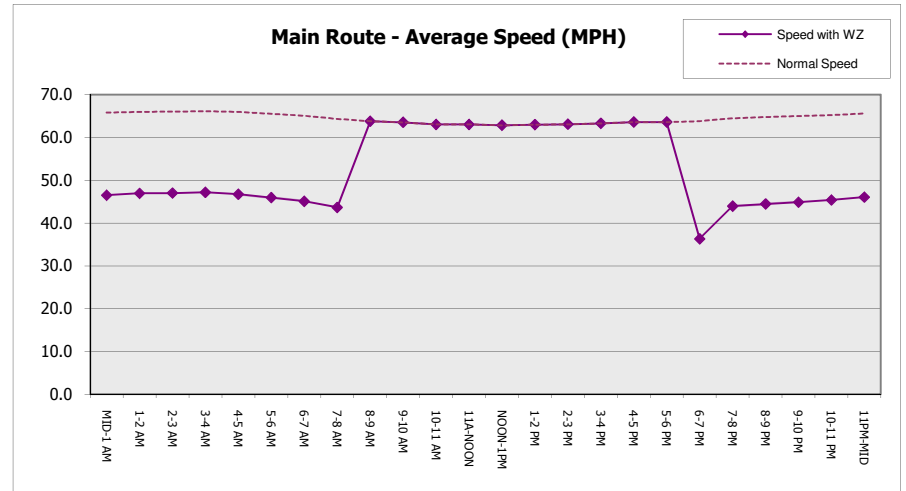
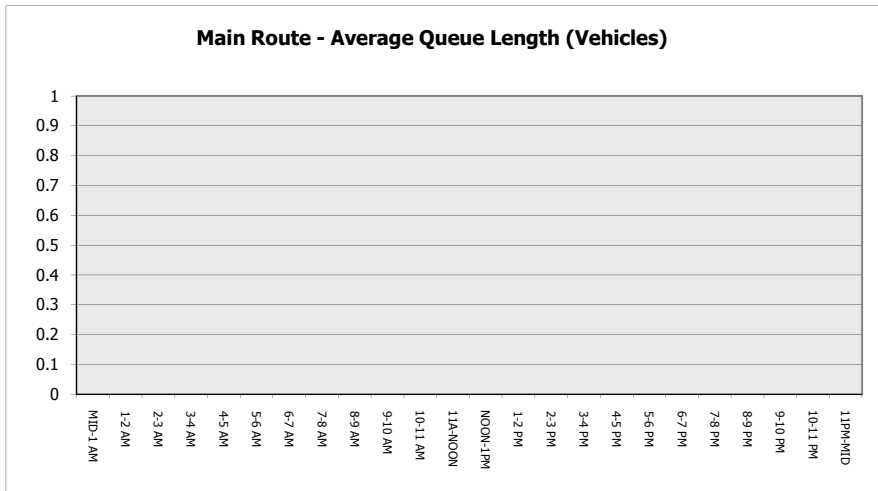
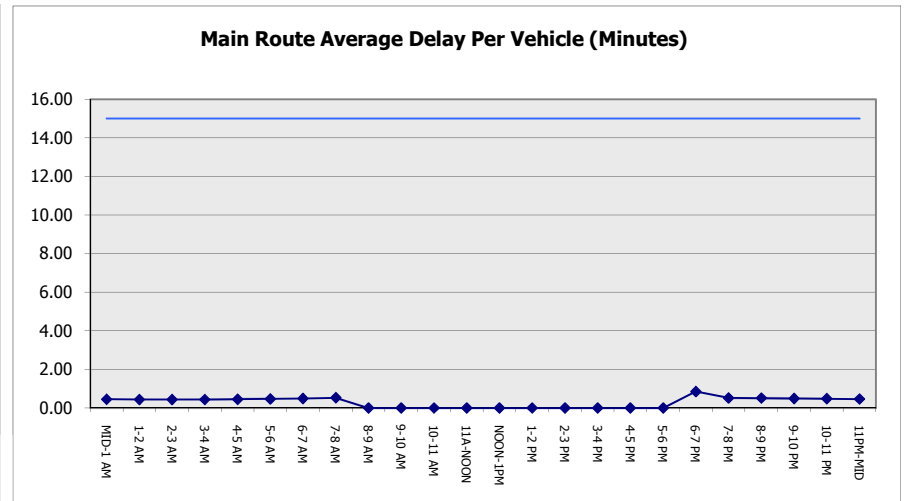
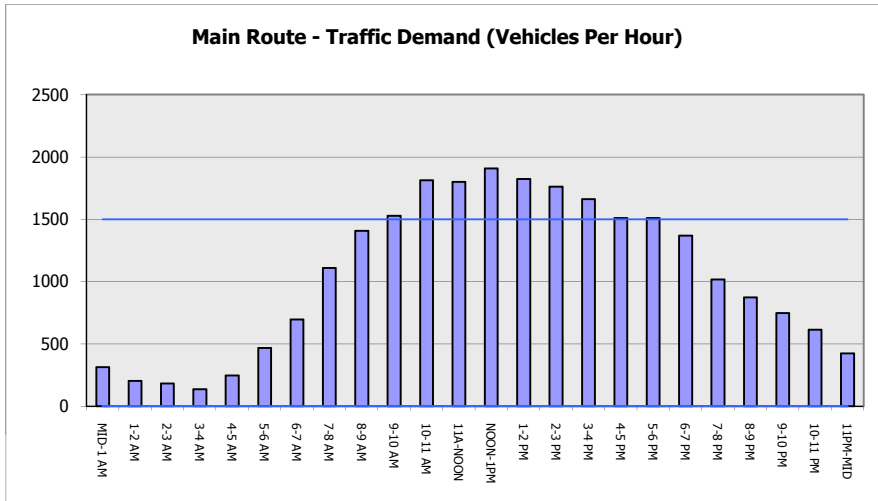
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$1,295
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY)**  
**NIGHTTIME CLOSURE**  
**DIVERSION ROUTE: PROSPECT AVENUE - STH 47**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY WESTBOUND DIRECTION**



<b>STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
SATURDAY	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	463	0.0	142	0.0	1500	463	0	142	0.47	0	65.5	46.0	43.7	23.7	23.7
1-2 AM	298	0.0	92	0.0	1500	298	0	92	0.45	0	65.8	46.6	44.3	24.2	24.2
2-3 AM	241	0.0	74	0.0	1500	241	0	74	0.45	0	66.0	46.8	44.5	24.3	24.3
3-4 AM	145	0.0	44	0.0	1500	145	0	44	0.44	0	66.1	47.2	44.9	24.5	24.5
4-5 AM	166	0.0	50	0.0	1500	166	0	50	0.44	0	66.1	47.1	44.8	24.5	24.5
5-6 AM	337	0.0	103	0.0	1500	337	0	103	0.46	0	65.8	46.5	44.2	24.0	24.0
6-7 AM	635	0.0	195	0.0	1500	635	0	195	0.48	0	65.2	45.3	43.0	23.3	23.3
7-8 AM	779	0.0	239	0.0	1500	779	0	239	0.50	0	65.0	44.8	42.5	23.0	23.0
8-9 AM	1198	0.0	368	0.0	OFF	1198	0	368	0.00	0	64.1	64.1	64.1	22.0	22.0
9-10 AM	1485	0.0	455	0.0	OFF	1485	0	455	0.00	0	63.6	63.6	63.6	21.4	21.4
10-11 AM	1844	0.0	565	0.0	OFF	1844	0	565	0.00	0	63.0	63.0	63.0	20.5	20.5
11A-NOON	1948	0.0	597	0.0	OFF	1948	0	597	0.00	0	62.8	62.8	62.8	20.2	20.2
NOON-1PM	2222	0.0	681	0.0	OFF	2222	0	681	0.00	0	62.2	62.2	62.2	19.6	19.6
1-2 PM	2117	0.0	649	0.0	OFF	2117	0	649	0.00	0	62.5	62.5	62.5	19.9	19.9
2-3 PM	2220	0.0	680	0.0	OFF	2220	0	680	0.00	0	62.2	62.2	62.2	19.6	19.6
3-4 PM	2234	0.0	685	0.0	OFF	2234	0	685	0.00	0	62.2	62.2	62.2	19.6	19.6
4-5 PM	2259	0.0	693	0.0	OFF	2259	0	693	0.00	0	62.2	62.2	62.2	19.5	19.5
5-6 PM	2188	0.0	670	0.0	OFF	2188	0	670	0.00	0	62.3	62.3	62.3	19.7	19.7
6-7 PM	1973	0.0	605	0.0	1499	1973	0	605	9.52	256	62.7	10.1	30.8	20.2	21.3
7-8 PM	1541	0.0	473	0.0	1499	1484	57	529	18.98	484	63.5	7.3	30.8	21.2	22.9
8-9 PM	1310	0.0	401	0.0	1499	1310	0	401	14.74	372	64.0	8.1	30.8	21.7	23.4
9-10 PM	1215	0.0	373	0.0	1499	1215	0	373	4.66	137	64.1	15.2	33.5	22.0	22.5
10-11 PM	927	0.0	284	0.0	1500	927	0	284	0.51	0	64.6	44.3	41.9	22.7	22.7
11PM-MID	614	0.0	188	0.0	1500	614	0	188	0.48	0	65.3	45.4	43.1	23.4	23.4

**"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	0.0058
MAIN ROUTE WITH WORKS	0.0051
DIVERSION	0.0748

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$21,065
CONGESTED HOURS PER DAY*	1

\*Delays Exceeding 15 Minutes

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**NIGHTTIME CLOSURE**  
**DIVERSION ROUTE: PROSPECT AVENUE - STH 47**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY EASTBOUND DIRECTION**

