

<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

**FRIDAY 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	513	0.0	305	0.0	1500	513	0	305	0.53	0	70.1	48.4	43.5	38.2	38.2
1-2 AM	265	0.0	157	0.0	1500	265	0	157	0.50	0	70.2	49.3	44.4	38.9	38.9
2-3 AM	199	0.0	118	0.0	1500	199	0	118	0.50	0	70.2	49.6	44.7	39.1	39.1
3-4 AM	165	0.0	98	0.0	1500	165	0	98	0.49	0	70.2	49.7	44.8	39.2	39.2
4-5 AM	190	0.0	113	0.0	1500	190	0	113	0.50	0	70.2	49.6	44.7	39.2	39.2
5-6 AM	318	0.0	189	0.0	OFF	318	0	189	0.00	0	70.2	70.2	70.2	38.8	38.8
6-7 AM	942	0.0	559	0.0	OFF	942	0	559	0.00	0	69.6	69.6	69.6	36.9	36.9
7-8 AM	2665	0.0	1582	0.0	OFF	2665	0	1582+	0.00	0	67.4	67.4	67.4	31.6	31.6
8-9 AM	4037	0.0	2397	0.0	OFF	4037	0	2397+	0.00	0	63.3	63.3	63.3	27.4	27.4
9-10 AM	3287	0.0	1952	0.0	OFF	3287	0	1952+	0.00	0	66.6	66.6	66.6	29.7	29.7
10-11 AM	2456	0.0	1459	0.0	OFF	2456	0	1459+	0.00	0	67.7	67.7	67.7	32.2	32.2
11A-NOON	2321	0.0	1378	0.0	OFF	2321	0	1378+	0.00	0	67.9	67.9	67.9	32.7	32.7
NOON-1PM	2475	0.0	1469	0.0	OFF	2475	0	1469+	0.00	0	67.7	67.7	67.7	32.2	32.2
1-2 PM	2683	0.0	1594	0.0	OFF	2683	0	1594+	0.00	0	67.4	67.4	67.4	31.5	31.5
2-3 PM	2743	0.0	1628	0.0	OFF	2743	0	1628+	0.00	0	67.3	67.3	67.3	31.4	31.4
3-4 PM	2877	0.0	1709	0.0	OFF	2877	0	1709+	0.00	0	67.1	67.1	67.1	31.0	31.0
4-5 PM	3160	0.0	1877	0.0	OFF	3160	0	1877+	0.00	0	66.8	66.8	66.8	30.1	30.1
5-6 PM	3240	0.0	1924	0.0	OFF	3240	0	1924+	0.00	0	66.7	66.7	66.7	29.9	29.9
6-7 PM	3015	0.0	1790	0.0	OFF	3015	0	1790+	0.00	0	67.0	67.0	67.0	30.6	30.6
7-8 PM	2575	0.0	1530	0.0	1499	1996	579	2109+	16.48	419	67.5	6.8	30.8	31.9	29.5
8-9 PM	1873	0.0	1112	0.0	1499	1412	461	1574+	17.51	430	68.4	6.5	30.8	34.0	32.2
9-10 PM	1510	0.0	897	0.0	1499	1446	64	961	15.62	380	68.9	6.9	30.8	35.1	35.3
10-11 PM	1314	0.0	781	0.0	1499	1314	0	781	11.38	274	69.1	8.3	30.8	35.7	36.0
11PM-MID	1058	0.0	628	0.0	1500	1058	0	628	1.41	41	69.4	32.2	38.8	36.5	36.5

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

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- 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	0.0102
MAIN ROUTE WITH WORKS	0.0094
DIVERSION	0.0438

PIA: Personal Injury Accidents

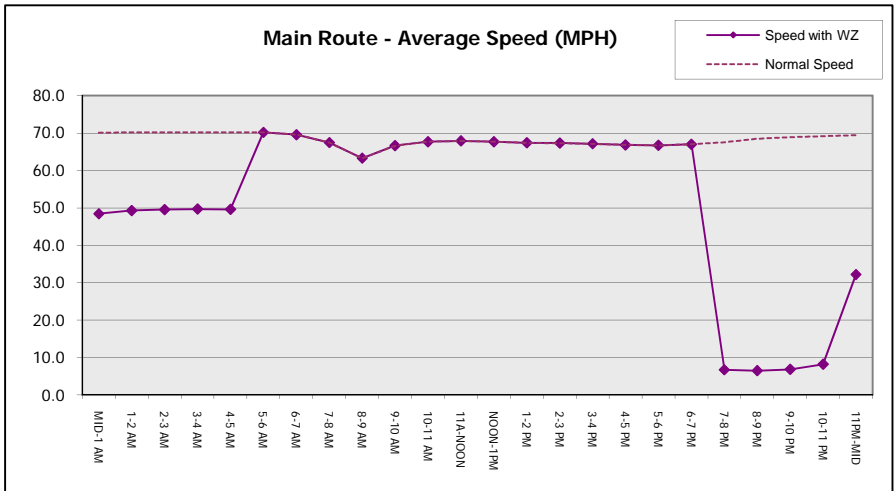
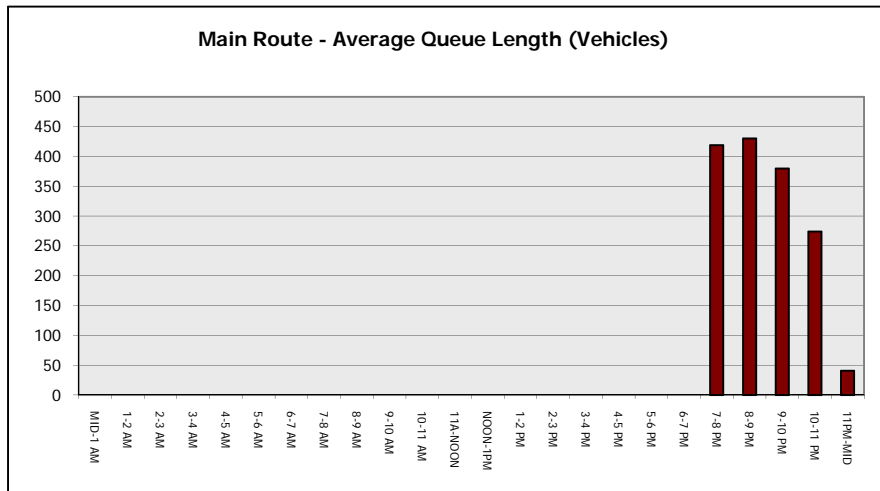
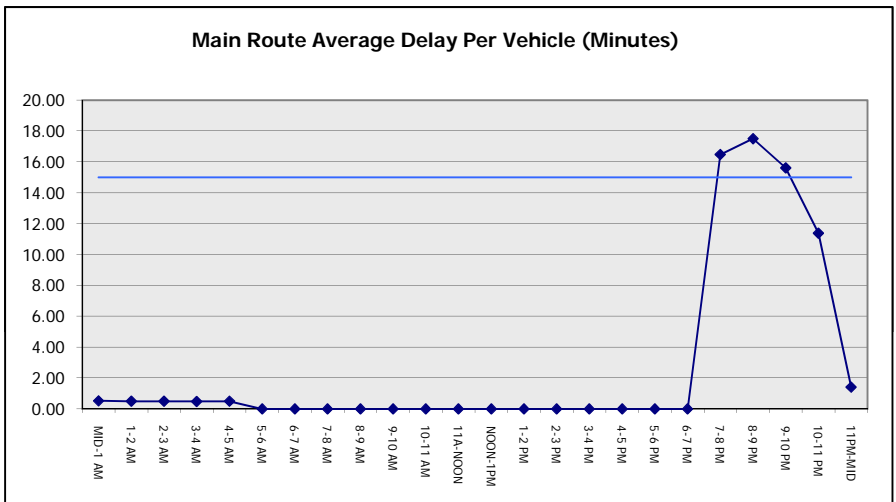
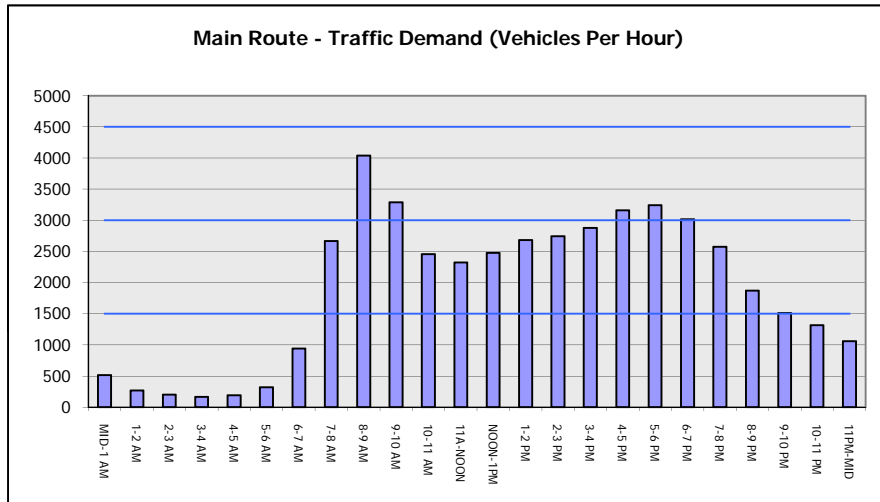
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$31,320
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)**  
**NIGHTTIME 2 LANE CLOSURE**  
**DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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



<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>OCTOBER</b> Analyzed for 2009 Construction Season
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<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
FRIDAY	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	509	0.0	301	0.0	1500	509	0	301	0.53	0	70.1	48.4	43.5	38.2	38.2
1-2 AM	320	0.0	190	0.0	1500	320	0	190	0.51	0	70.2	49.1	44.2	38.8	38.8
2-3 AM	189	0.0	112	0.0	1500	189	0	112	0.50	0	70.2	49.6	44.7	39.2	39.2
3-4 AM	174	0.0	104	0.0	1500	174	0	104	0.49	0	70.2	49.7	44.8	39.2	39.2
4-5 AM	176	0.0	105	0.0	1500	176	0	105	0.49	0	70.2	49.7	44.8	39.2	39.2
5-6 AM	288	0.0	171	0.0	OFF	288	0	171	0.00	0	70.2	70.2	70.2	38.9	38.9
6-7 AM	775	0.0	460	0.0	OFF	775	0	460	0.00	0	69.7	69.7	69.7	37.4	37.4
7-8 AM	1723	0.0	1023	0.0	OFF	1723	0	1023	0.00	0	68.6	68.6	68.6	34.5	34.5
8-9 AM	2775	0.0	1648	0.0	OFF	2775	0	1648+	0.00	0	67.3	67.3	67.3	31.3	31.3
9-10 AM	2364	0.0	1403	0.0	OFF	2364	0	1403+	0.00	0	67.8	67.8	67.8	32.5	32.5
10-11 AM	2008	0.0	1192	0.0	OFF	2008	0	1192	0.00	0	68.2	68.2	68.2	33.6	33.6
11A-NOON	2185	0.0	1298	0.0	OFF	2185	0	1298+	0.00	0	68.0	68.0	68.0	33.1	33.1
NOON-1PM	2569	0.0	1526	0.0	OFF	2569	0	1526+	0.00	0	67.6	67.6	67.6	31.9	31.9
1-2 PM	2810	0.0	1668	0.0	OFF	2810	0	1668+	0.00	0	67.3	67.3	67.3	31.2	31.2
2-3 PM	3003	0.0	1783	0.0	OFF	3003	0	1783+	0.00	0	67.0	67.0	67.0	30.6	30.6
3-4 PM	3416	0.0	2029	0.0	OFF	3416	0	2029+	0.00	0	66.5	66.5	66.5	29.3	29.3
4-5 PM	3909	0.0	2321	0.0	OFF	3909	0	2321+	0.00	0	64.1	64.1	64.1	27.8	27.8
5-6 PM	3900	0.0	2316	0.0	OFF	3900	0	2316+	0.00	0	64.2	64.2	64.2	27.8	27.8
6-7 PM	3503	0.0	2080	0.0	OFF	3503	0	2080+	0.00	0	66.4	66.4	66.4	29.1	29.1
7-8 PM	2623	0.0	1558	0.0	1499	1974	649	2207+	17.57	445	67.5	6.6	30.8	31.7	29.0
8-9 PM	1723	0.0	1023	0.0	1499	1416	307	1331+	16.79	411	68.6	6.6	30.8	34.5	33.5
9-10 PM	1457	0.0	864	0.0	1499	1441	15	880	15.14	368	68.9	7.0	30.8	35.3	35.6
10-11 PM	1314	0.0	781	0.0	1499	1314	0	781	10.46	251	69.1	8.7	30.9	35.7	36.0
11PM-MID	1047	0.0	622	0.0	1500	1047	0	622	1.19	30	69.4	35.0	39.4	36.6	36.6

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

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- 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	0.0100
MAIN ROUTE WITH WORKS	0.0092
DIVERSION	0.0425

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$30,461
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)**  
**NIGHTTIME 2 LANE CLOSURE**  
**DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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

