

**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

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	710	0.0	422	0.0	1500	710	0	422	0.56	0	69.9	47.8	42.7	37.6	37.6
1-2 AM	411	0.0	244	0.0	1500	411	0	244	0.52	0	70.2	48.8	43.8	38.5	38.5
2-3 AM	281	0.0	167	0.0	1500	281	0	167	0.51	0	70.2	49.2	44.3	38.9	38.9
3-4 AM	236	0.0	140	0.0	1500	236	0	140	0.50	0	70.2	49.4	44.5	39.0	39.0
4-5 AM	193	0.0	114	0.0	1500	193	0	114	0.50	0	70.2	49.6	44.7	39.2	39.2
5-6 AM	205	0.0	121	0.0	1500	205	0	121	0.50	0	70.2	49.6	44.6	39.1	39.1
6-7 AM	341	0.0	203	0.0	1500	341	0	203	0.51	0	70.2	49.1	44.1	38.7	38.7
7-8 AM	705	0.0	420	0.0	1500	705	0	420	0.56	0	69.9	47.8	42.7	37.6	37.6
8-9 AM	1281	0.0	761	0.0	OFF	1281	0	761	0.00	0	69.1	69.1	69.1	35.8	35.8
9-10 AM	2011	0.0	1195	0.0	OFF	2011	0	1195	0.00	0	68.2	68.2	68.2	33.6	33.6
10-11 AM	2594	0.0	1540	0.0	OFF	2594	0	1540+	0.00	0	67.5	67.5	67.5	31.8	31.8
11A-NOON	2511	0.0	1491	0.0	OFF	2511	0	1491+	0.00	0	67.6	67.6	67.6	32.1	32.1
NOON-1PM	2554	0.0	1517	0.0	OFF	2554	0	1517+	0.00	0	67.6	67.6	67.6	31.9	31.9
1-2 PM	2668	0.0	1585	0.0	OFF	2668	0	1585+	0.00	0	67.4	67.4	67.4	31.6	31.6
2-3 PM	2612	0.0	1551	0.0	OFF	2612	0	1551+	0.00	0	67.5	67.5	67.5	31.8	31.8
3-4 PM	2743	0.0	1628	0.0	OFF	2743	0	1628+	0.00	0	67.3	67.3	67.3	31.4	31.4
4-5 PM	2841	0.0	1687	0.0	OFF	2841	0	1687+	0.00	0	67.2	67.2	67.2	31.1	31.1
5-6 PM	2815	0.0	1672	0.0	OFF	2815	0	1672+	0.00	0	67.3	67.3	67.3	31.2	31.2
6-7 PM	2363	0.0	1403	0.0	1499	1975	388	1791+	14.10	361	67.8	7.4	30.8	32.5	31.1
7-8 PM	1899	0.0	1128	0.0	1500	1437	462	1590+	17.56	431	68.4	6.5	30.8	34.0	32.2
8-9 PM	1383	0.0	821	0.0	1499	1343	41	862	14.08	342	69.0	7.3	30.8	35.5	35.7
9-10 PM	1141	0.0	677	0.0	1499	1141	0	677	2.59	99	69.3	23.0	36.6	36.3	36.3
10-11 PM	1031	0.0	612	0.0	1500	1031	0	612	0.59	0	69.4	46.6	41.5	36.6	36.6
11PM-MID	961	0.0	570	0.0	1500	961	0	570	0.58	0	69.6	46.9	41.8	36.8	36.8

"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 (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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 (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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	0.0081
MAIN ROUTE WITH WORKS	0.0072
DIVERSION	0.0348

PIA: Personal Injury Accidents

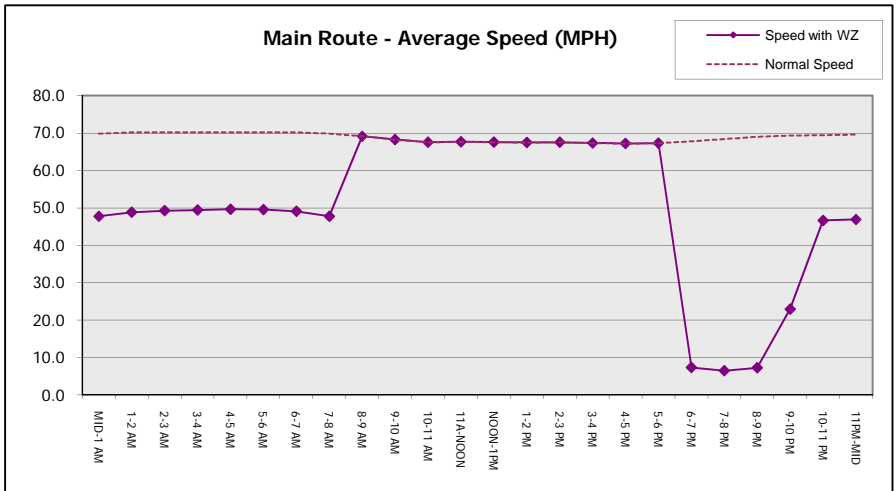
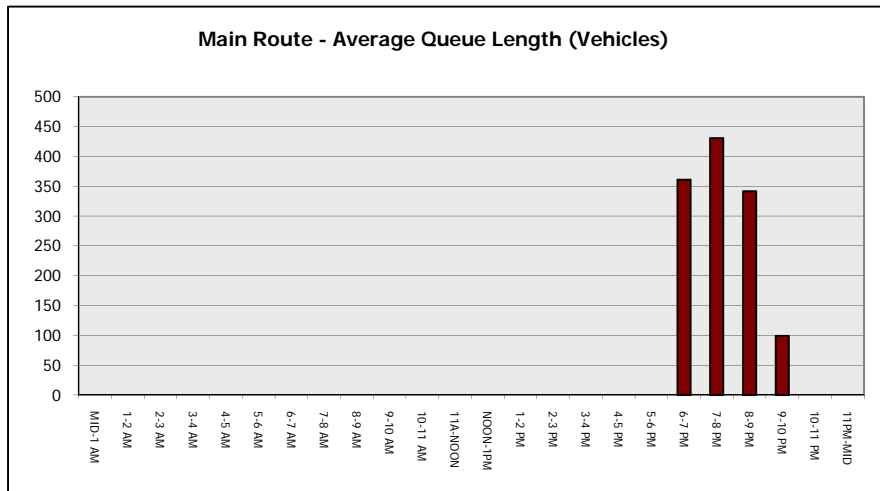
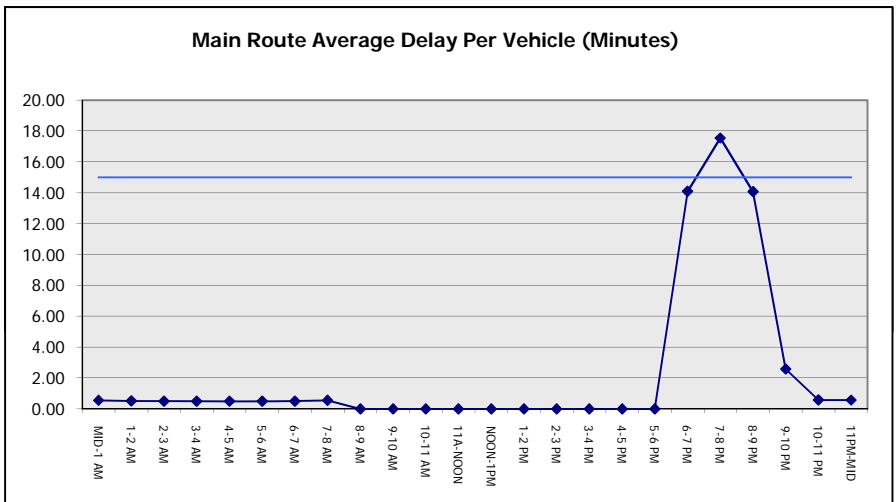
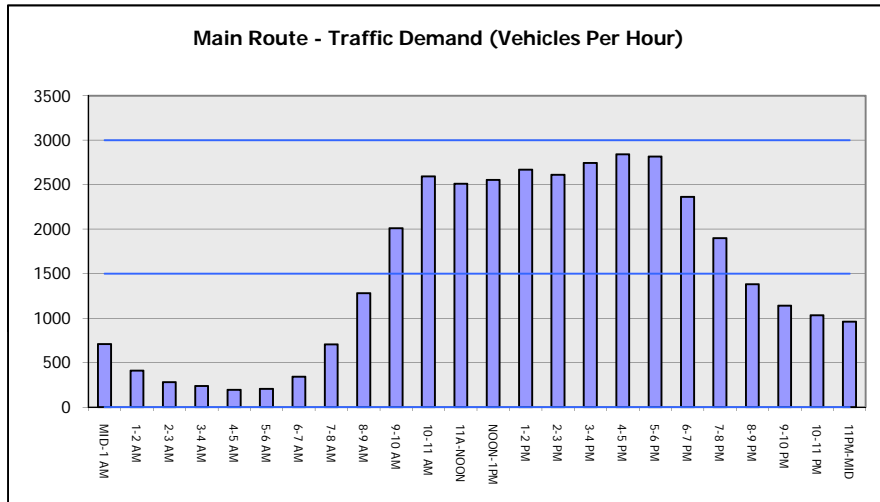
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$27,938
CONGESTED HOURS PER DAY*	1

*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
SATURDAY WESTBOUND DIRECTION



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

SUMMARY OF TRAFFIC MODEL OUTPUT

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	713	0.0	423	0.0	1499	713	0	423	2.05	118	69.9	27.4	41.0	37.6	37.7
1-2 AM	463	0.0	275	0.0	1500	463	0	275	0.53	0	70.2	48.6	43.7	38.3	38.3
2-3 AM	281	0.0	167	0.0	1500	281	0	167	0.51	0	70.2	49.2	44.3	38.9	38.9
3-4 AM	258	0.0	154	0.0	1500	258	0	154	0.50	0	70.2	49.4	44.5	38.9	38.9
4-5 AM	198	0.0	117	0.0	1500	198	0	117	0.50	0	70.2	49.6	44.7	39.1	39.1
5-6 AM	161	0.0	95	0.0	1500	161	0	95	0.49	0	70.2	49.7	44.8	39.2	39.2
6-7 AM	311	0.0	185	0.0	1500	311	0	185	0.51	0	70.2	49.2	44.2	38.8	38.8
7-8 AM	605	0.0	359	0.0	1500	605	0	359	0.54	0	70.0	48.1	43.1	37.9	37.9
8-9 AM	1083	0.0	644	0.0	OFF	1083	0	644	0.00	0	69.4	69.4	69.4	36.5	36.5
9-10 AM	1529	0.0	908	0.0	OFF	1529	0	908	0.00	0	68.8	68.8	68.8	35.1	35.1
10-11 AM	1823	0.0	1082	0.0	OFF	1823	0	1082	0.00	0	68.5	68.5	68.5	34.2	34.2
11A-NOON	2214	0.0	1315	0.0	OFF	2214	0	1315+	0.00	0	68.0	68.0	68.0	33.0	33.0
NOON-1PM	2399	0.0	1425	0.0	OFF	2399	0	1425+	0.00	0	67.8	67.8	67.8	32.4	32.4
1-2 PM	2460	0.0	1461	0.0	OFF	2460	0	1461+	0.00	0	67.7	67.7	67.7	32.2	32.2
2-3 PM	2440	0.0	1449	0.0	OFF	2440	0	1449+	0.00	0	67.7	67.7	67.7	32.3	32.3
3-4 PM	2687	0.0	1596	0.0	OFF	2687	0	1596+	0.00	0	67.4	67.4	67.4	31.5	31.5
4-5 PM	2859	0.0	1697	0.0	OFF	2859	0	1697+	0.00	0	67.2	67.2	67.2	31.0	31.0
5-6 PM	2685	0.0	1595	0.0	OFF	2685	0	1595+	0.00	0	67.4	67.4	67.4	31.5	31.5
6-7 PM	2309	0.0	1371	0.0	1499	1971	338	1709+	13.38	345	67.9	7.6	30.8	32.7	31.4
7-8 PM	2002	0.0	1189	0.0	1500	1457	545	1734+	18.01	443	68.2	6.4	30.8	33.7	31.5
8-9 PM	1584	0.0	941	0.0	1500	1444	140	1081	16.02	390	68.7	6.8	30.8	34.9	34.7
9-10 PM	1313	0.0	780	0.0	1499	1313	0	780	11.79	285	69.1	8.1	30.8	35.7	36.0
10-11 PM	1375	0.0	816	0.0	1500	1375	0	816	4.94	106	69.1	14.0	31.0	35.5	35.6
11PM-MID	1825	0.0	1084	0.0	1500	1825	0	1084	9.64	243	68.5	9.3	30.8	34.2	34.5

"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	0.0079
MAIN ROUTE WITH WORKS	0.0069
DIVERSION	0.0342

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$40,992
CONGESTED HOURS PER DAY*	2

*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
SATURDAY EASTBOUND DIRECTION

