

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

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	381	0.0	226	0.0	1500	381	0	226	0.52	0	70.2	48.9	44.0	38.6	38.6
1-2 AM	212	0.0	126	0.0	1500	212	0	126	0.50	0	70.2	49.5	44.6	39.1	39.1
2-3 AM	146	0.0	87	0.0	1500	146	0	87	0.49	0	70.2	49.7	44.9	39.3	39.3
3-4 AM	135	0.0	81	0.0	1500	135	0	81	0.49	0	70.2	49.8	45.0	39.3	39.3
4-5 AM	174	0.0	103	0.0	1500	174	0	103	0.49	0	70.2	49.7	44.8	39.2	39.2
5-6 AM	316	0.0	187	0.0	OFF	316	0	187	0.00	0	70.2	70.2	70.2	38.8	38.8
6-7 AM	1017	0.0	604	0.0	OFF	1017	0	604	0.00	0	69.5	69.5	69.5	36.6	36.6
7-8 AM	2891	0.0	1717	0.0	OFF	2891	0	1717+	0.00	0	67.1	67.1	67.1	30.9	30.9
8-9 AM	4280	0.0	2542	0.0	OFF	4280	0	2542+	0.00	0	61.6	61.6	61.6	26.7	26.7
9-10 AM	3392	0.0	2014	0.0	OFF	3392	0	2014+	0.00	0	66.5	66.5	66.5	29.4	29.4
10-11 AM	2372	0.0	1408	0.0	OFF	2372	0	1408+	0.00	0	67.8	67.8	67.8	32.5	32.5
11A-NOON	2110	0.0	1253	0.0	OFF	2110	0	1253+	0.00	0	68.1	68.1	68.1	33.3	33.3
NOON-1PM	2169	0.0	1288	0.0	OFF	2169	0	1288+	0.00	0	68.1	68.1	68.1	33.1	33.1
1-2 PM	2262	0.0	1344	0.0	OFF	2262	0	1344+	0.00	0	67.9	67.9	67.9	32.9	32.9
2-3 PM	2294	0.0	1362	0.0	OFF	2294	0	1362+	0.00	0	67.9	67.9	67.9	32.7	32.7
3-4 PM	2393	0.0	1421	0.0	OFF	2393	0	1421+	0.00	0	67.8	67.8	67.8	32.4	32.4
4-5 PM	2723	0.0	1617	0.0	OFF	2723	0	1617+	0.00	0	67.4	67.4	67.4	31.4	31.4
5-6 PM	3043	0.0	1807	0.0	OFF	3043	0	1807+	0.00	0	66.9	66.9	66.9	30.4	30.4
6-7 PM	2781	0.0	1651	0.0	OFF	2781	0	1651+	0.00	0	67.3	67.3	67.3	31.2	31.2
7-8 PM	2082	0.0	1237	0.0	1499	1925	157	1394+	11.74	303	68.1	8.3	30.8	33.4	33.0
8-9 PM	1442	0.0	856	0.0	1500	1372	70	926	15.03	365	68.9	7.0	30.8	35.3	35.4
9-10 PM	1135	0.0	674	0.0	1499	1135	0	674	3.61	134	69.3	18.6	35.7	36.3	36.4
10-11 PM	1003	0.0	595	0.0	1500	1003	0	595	0.59	0	69.5	46.8	41.7	36.7	36.7
11PM-MID	697	0.0	413	0.0	1500	697	0	413	0.55	0	69.9	47.8	42.8	37.6	37.6

"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 (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	0.0092
MAIN ROUTE WITH WORKS	0.0087
DIVERSION	0.0383

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$13,359
CONGESTED HOURS PER DAY*	1

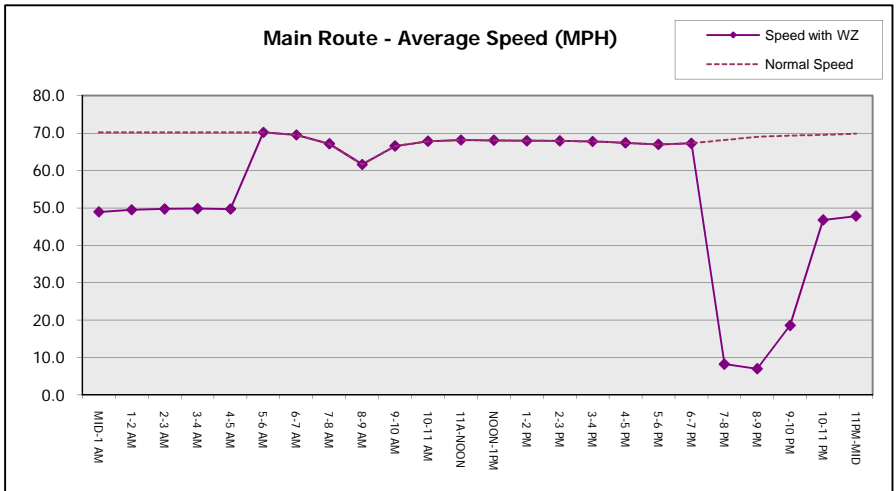
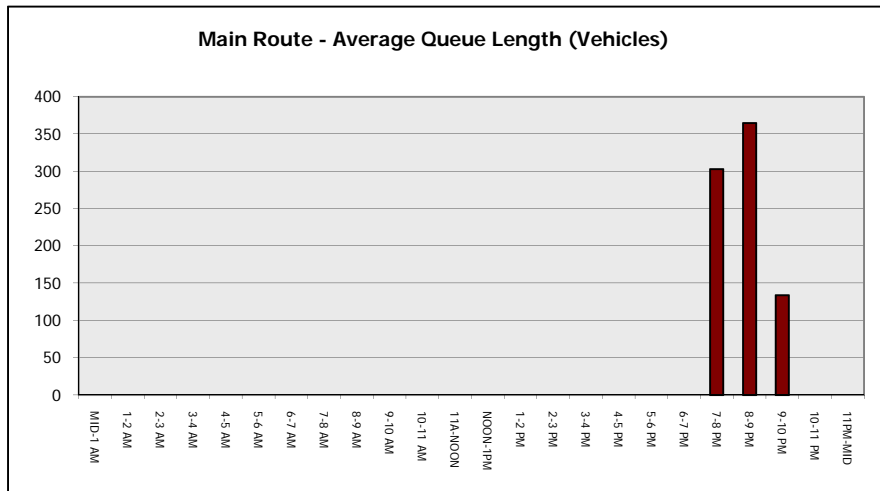
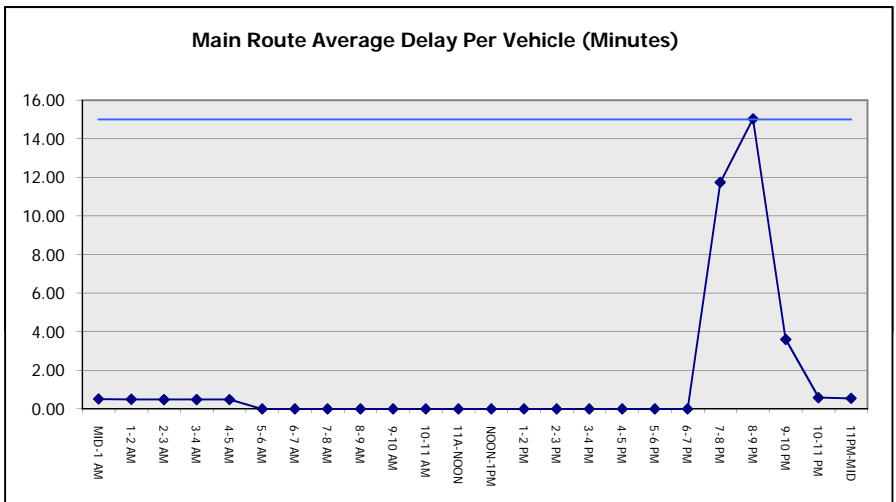
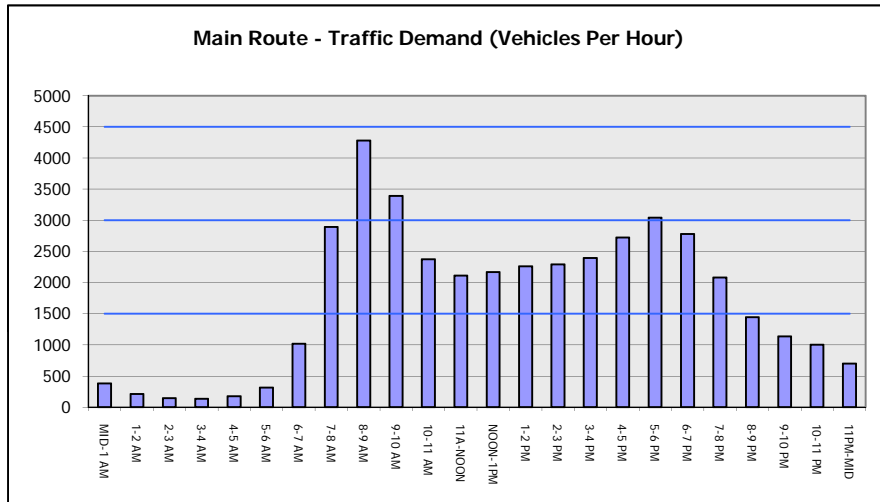
*Delays Exceeding 15 Minutes

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

MON-THUR 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
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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	402	0.0	239	0.0	1500	402	0	239	0.52	0	70.2	48.9	43.9	38.5	38.5
1-2 AM	239	0.0	141	0.0	1500	239	0	141	0.50	0	70.2	49.4	44.5	39.0	39.0
2-3 AM	148	0.0	88	0.0	1500	148	0	88	0.49	0	70.2	49.7	44.9	39.3	39.3
3-4 AM	127	0.0	75	0.0	1500	127	0	75	0.49	0	70.2	49.8	45.0	39.4	39.4
4-5 AM	155	0.0	92	0.0	1500	155	0	92	0.49	0	70.2	49.7	44.8	39.2	39.2
5-6 AM	295	0.0	175	0.0	OFF	295	0	175	0.00	0	70.2	70.2	70.2	38.9	38.9
6-7 AM	845	0.0	502	0.0	OFF	845	0	502	0.00	0	69.7	69.7	69.7	37.1	37.1
7-8 AM	1898	0.0	1127	0.0	OFF	1898	0	1127	0.00	0	68.4	68.4	68.4	34.0	34.0
8-9 AM	3025	0.0	1797	0.0	OFF	3025	0	1797+	0.00	0	66.9	66.9	66.9	30.5	30.5
9-10 AM	2480	0.0	1472	0.0	OFF	2480	0	1472+	0.00	0	67.6	67.6	67.6	32.2	32.2
10-11 AM	1936	0.0	1150	0.0	OFF	1936	0	1150	0.00	0	68.3	68.3	68.3	33.8	33.8
11A-NOON	1975	0.0	1173	0.0	OFF	1975	0	1173	0.00	0	68.3	68.3	68.3	33.7	33.7
NOON-1PM	2225	0.0	1321	0.0	OFF	2225	0	1321+	0.00	0	68.0	68.0	68.0	33.0	33.0
1-2 PM	2313	0.0	1374	0.0	OFF	2313	0	1374+	0.00	0	67.9	67.9	67.9	32.7	32.7
2-3 PM	2371	0.0	1407	0.0	OFF	2371	0	1407+	0.00	0	67.8	67.8	67.8	32.5	32.5
3-4 PM	2789	0.0	1656	0.0	OFF	2789	0	1656+	0.00	0	67.3	67.3	67.3	31.2	31.2
4-5 PM	3594	0.0	2135	0.0	OFF	3594	0	2135+	0.00	0	66.3	66.3	66.3	28.8	28.8
5-6 PM	4170	0.0	2476	0.0	OFF	4170	0	2476+	0.00	0	62.3	62.3	62.3	27.0	27.0
6-7 PM	3656	0.0	2171	0.0	OFF	3656	0	2171+	0.00	0	65.9	65.9	65.9	28.6	28.6
7-8 PM	2389	0.0	1419	0.0	1499	1950	439	1858+	15.27	384	67.8	7.1	30.8	32.5	30.7
8-9 PM	1588	0.0	943	0.0	1499	1402	187	1129	16.04	391	68.7	6.8	30.8	34.9	34.5
9-10 PM	1286	0.0	764	0.0	1499	1286	0	764	10.72	260	69.1	8.6	31.1	35.8	36.1
10-11 PM	1080	0.0	641	0.0	1500	1080	0	641	1.14	27	69.4	35.7	39.5	36.5	36.5
11PM-MID	737	0.0	437	0.0	1500	737	0	437	0.56	0	69.8	47.6	42.6	37.5	37.5

"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	0.0093
MAIN ROUTE WITH WORKS	0.0086
DIVERSION	0.0392

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$20,129
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
MON-THUR EASTBOUND DIRECTION

