

**IH 39/90/94: USH 51 TO IH 94/STH 30 (DANE COUNTY)  
CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
DIVERSION ROUTE: 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	519	0.0	170	0.0	1500	519	0	170	0.54	0	70.1	63.2	43.4	38.9	38.9
1-2 AM	363	0.0	118	0.0	1500	363	0	118	0.52	0	70.2	63.5	44.0	39.2	39.2
2-3 AM	315	0.0	103	0.0	1500	315	0	103	0.51	0	70.2	63.5	44.2	39.2	39.2
3-4 AM	288	0.0	94	0.0	1500	288	0	94	0.51	0	70.2	63.5	44.3	39.3	39.3
4-5 AM	326	0.0	106	0.0	1500	326	0	106	0.51	0	70.2	63.5	44.2	39.2	39.2
5-6 AM	536	0.0	175	0.0	1500	536	0	175	0.54	0	70.0	63.1	43.3	38.9	38.9
6-7 AM	829	0.0	270	0.0	1500	829	0	270	0.57	0	69.7	62.5	42.3	38.4	38.4
7-8 AM	1368	0.0	446	0.0	1499	1368	0	446	0.93	0	69.1	58.1	34.1	37.6	37.6
8-9 AM	1912	0.0	623	0.0	1500	1676	236	859	5.57	126	68.4	32.4	30.8	36.8	35.6
9-10 AM	2241	0.0	730	0.0	1500	1520	721	1451+	8.34	191	67.9	25.6	30.8	36.2	32.7
10-11 AM	2567	0.0	836	0.0	1500	1521	1045	1881+	9.21	214	67.6	24.0	30.8	35.7	30.7
11A-NOON	2560	0.0	834	0.0	1500	1496	1063	1897+	9.25	215	67.6	23.9	30.8	35.7	30.6
NOON-1PM	2550	0.0	831	0.0	1500	1498	1052	1883+	9.22	215	67.6	24.0	30.8	35.8	30.7
1-2 PM	2426	0.0	790	0.0	1500	1494	932	1722+	8.88	205	67.7	24.5	30.8	36.0	31.4
2-3 PM	2779	0.0	905	0.0	1499	1530	1249	2154+	9.83	231	67.3	22.9	30.8	35.4	29.4
3-4 PM	2811	0.0	916	0.0	1500	1497	1314	2230+	10.01	236	67.3	22.6	30.8	35.3	29.0
4-5 PM	2544	0.0	829	0.0	1500	1478	1066	1895+	9.24	215	67.6	23.9	30.8	35.8	30.6
5-6 PM	2489	0.0	811	0.0	1499	1494	995	1806+	9.05	210	67.6	24.2	30.8	35.8	31.1
6-7 PM	2014	0.0	656	0.0	1500	1466	549	1205+	7.89	179	68.2	26.5	30.8	36.6	34.0
7-8 PM	1543	0.0	502	0.0	1500	1449	95	597	6.66	146	68.8	29.4	30.8	37.3	36.9
8-9 PM	1196	0.0	389	0.0	1500	1196	0	389	1.62	29	69.2	52.1	37.3	37.9	37.9
9-10 PM	1079	0.0	352	0.0	1500	1079	0	352	0.60	0	69.4	61.9	41.4	38.1	38.1
10-11 PM	802	0.0	261	0.0	1500	802	0	261	0.57	0	69.7	62.5	42.4	38.5	38.5
11PM-MID	566	0.0	184	0.0	1500	566	0	184	0.54	0	70.0	63.0	43.3	38.9	38.9

+ 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	0.0332
MAIN ROUTE WITH WORKS	0.0221
DIVERSION	0.2270

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$78,773
CONGESTED HOURS PER DAY*	0

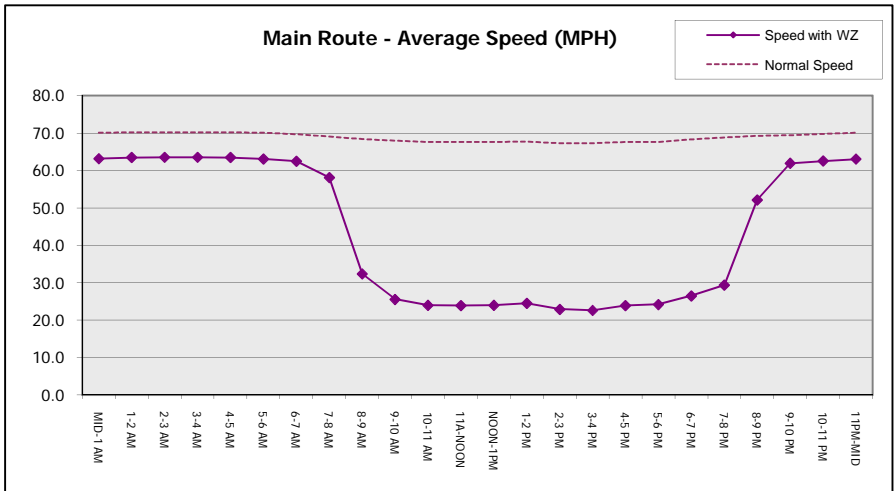
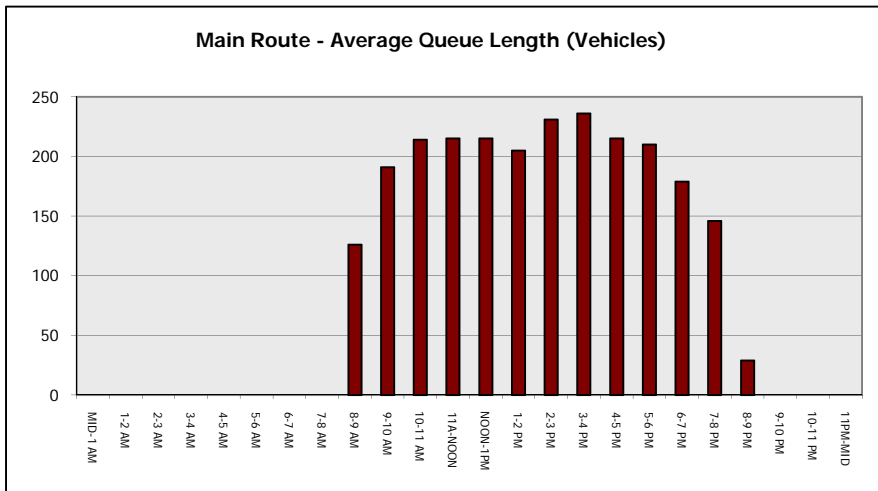
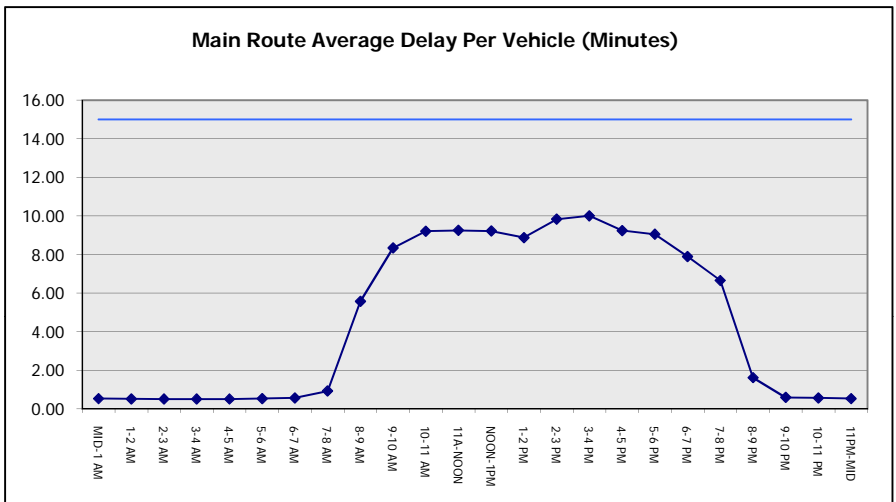
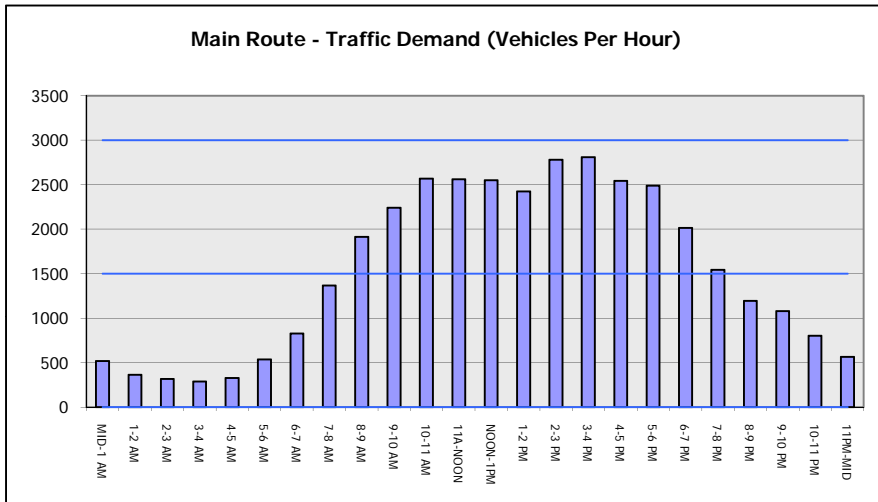
\*Delays Exceeding 15 Minutes

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**CONTINUOUS (24 HOUR) 2 LANE CLOSURE**  
**DIVERSION ROUTE: STH 30 - USH 51**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SATURDAY WESTBOUND DIRECTION**



<b>IH 39/90/94: USH 51 TO IH 94/STH 30 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: STH 30 - USH 51</b>	<b>OCTOBER</b>
	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			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		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	450	0.0	146	0.0	1500	450	0	146	0.53	0	70.2	63.3	43.7	39.1	39.1
1-2 AM	321	0.0	105	0.0	1500	321	0	105	0.51	0	70.2	63.5	44.2	39.2	39.2
2-3 AM	293	0.0	95	0.0	1500	293	0	95	0.51	0	70.2	63.5	44.3	39.3	39.3
3-4 AM	273	0.0	89	0.0	1500	273	0	89	0.51	0	70.2	63.6	44.4	39.3	39.3
4-5 AM	315	0.0	103	0.0	1500	315	0	103	0.51	0	70.2	63.5	44.2	39.2	39.2
5-6 AM	403	0.0	131	0.0	1500	403	0	131	0.52	0	70.2	63.4	43.9	39.1	39.1
6-7 AM	758	0.0	247	0.0	1500	758	0	247	0.56	0	69.8	62.6	42.5	38.6	38.6
7-8 AM	1283	0.0	418	0.0	1499	1283	0	418	0.82	0	69.1	59.4	36.4	37.8	37.8
8-9 AM	2229	0.0	726	0.0	1499	1708	521	1247+	7.61	177	67.9	27.0	31.5	36.3	33.7
9-10 AM	2637	0.0	859	0.0	1499	1516	1121	1980+	9.43	220	67.4	23.6	30.8	35.6	30.2
10-11 AM	2414	0.0	786	0.0	1500	1479	936	1721+	8.88	205	67.8	24.5	30.8	36.0	31.4
11A-NOON	2313	0.0	753	0.0	1500	1494	818	1571+	8.57	197	67.9	25.1	30.8	36.1	32.2
NOON-1PM	2310	0.0	752	0.0	1500	1500	810	1563+	8.55	197	67.9	25.2	30.8	36.1	32.2
1-2 PM	2268	0.0	739	0.0	1500	1497	771	1509+	8.45	194	67.9	25.3	30.8	36.2	32.5
2-3 PM	2258	0.0	736	0.0	1500	1500	759	1494+	8.42	193	67.9	25.4	30.8	36.2	32.5
3-4 PM	2237	0.0	728	0.0	1500	1499	738	1467+	8.37	192	67.9	25.5	30.8	36.3	32.7
4-5 PM	2273	0.0	740	0.0	1500	1501	771	1511+	8.45	194	67.9	25.3	30.8	36.2	32.5
5-6 PM	2114	0.0	689	0.0	1500	1487	626	1315+	8.09	184	68.1	26.1	30.8	36.5	33.4
6-7 PM	1858	0.0	606	0.0	1500	1483	375	981	7.51	168	68.4	27.3	30.8	36.8	35.0
7-8 PM	1536	0.0	500	0.0	1500	1469	68	568	6.73	147	68.8	29.2	30.8	37.3	37.0
8-9 PM	1321	0.0	430	0.0	1499	1321	0	430	2.90	61	69.1	43.5	33.2	37.7	37.7
9-10 PM	1112	0.0	362	0.0	1500	1112	0	362	0.60	0	69.4	61.9	41.3	38.0	38.0
10-11 PM	854	0.0	278	0.0	1500	854	0	278	0.57	0	69.7	62.4	42.2	38.4	38.4
11PM-MID	581	0.0	189	0.0	1500	581	0	189	0.54	0	70.0	63.0	43.2	38.8	38.8

+ 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	0.0312
MAIN ROUTE WITH WORKS	0.0219
DIVERSION	0.1992

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$70,295
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**IH 39/90/94: USH 51 TO IH 94/STH 30 (DANE COUNTY)**  
**CONTINUOUS (24 HOUR) 2 LANE CLOSURE**  
**DIVERSION ROUTE: STH 30 - USH 51**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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

