

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

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	431	0.0	140	0.0	1500	431	0	140	0.53	0	70.2	63.3	43.8	39.1	39.1
1-2 AM	344	0.0	112	0.0	1500	344	0	112	0.51	0	70.2	63.5	44.1	39.2	39.2
2-3 AM	303	0.0	99	0.0	1500	303	0	99	0.51	0	70.2	63.5	44.3	39.2	39.2
3-4 AM	318	0.0	104	0.0	1500	318	0	104	0.51	0	70.2	63.5	44.2	39.2	39.2
4-5 AM	496	0.0	161	0.0	1500	496	0	161	0.53	0	70.1	63.2	43.5	39.0	39.0
5-6 AM	931	0.0	303	0.0	1499	931	0	303	0.58	0	69.6	62.2	41.9	38.3	38.3
6-7 AM	1938	0.0	631	0.0	1499	1727	211	842	4.57	107	68.3	35.7	30.8	36.7	35.7
7-8 AM	3025	0.0	986	0.0	1499	1536	1489	2475+	10.63	253	66.9	21.7	30.8	35.0	27.8
8-9 AM	2606	0.0	849	0.0	1500	1449	1157	2005+	9.49	222	67.5	23.5	30.8	35.6	30.1
9-10 AM	2240	0.0	729	0.0	1500	1478	762	1491+	8.42	193	67.9	25.4	30.8	36.2	32.5
10-11 AM	2436	0.0	793	0.0	1499	1519	917	1710+	8.85	205	67.7	24.6	30.8	35.9	31.5
11A-NOON	2714	0.0	884	0.0	1500	1523	1192	2076+	9.65	226	67.4	23.2	30.8	35.5	29.7
NOON-1PM	2921	0.0	951	0.0	1500	1518	1403	2354+	10.32	244	67.1	22.2	30.8	35.1	28.4
1-2 PM	3141	0.0	1023	0.0	1500	1522	1619	2642+	11.09	265	66.8	21.1	30.8	34.8	27.0
2-3 PM	3384	0.0	1102	0.0	1500	1533	1851	2953+	12.02	290	66.5	19.9	30.8	34.5	25.5
3-4 PM	4029	0.0	1312	0.0	1500	1594	2435	3747+	14.78	370	63.3	17.0	30.8	33.4	21.7
4-5 PM	4304	0.0	1401	0.0	1500	1526	2778	4179+	16.76	425	61.5	15.3	30.8	33.0	19.6
5-6 PM	3904	0.0	1271	0.0	1500	1412	2492	3763+	14.93	372	64.2	16.9	30.8	33.6	21.6
6-7 PM	3030	0.0	987	0.0	1500	1402	1629	2615+	11.03	265	66.9	21.2	30.8	35.0	27.1
7-8 PM	2328	0.0	759	0.0	1499	1450	878	1637+	8.71	201	67.8	24.8	30.8	36.1	31.9
8-9 PM	1894	0.0	616	0.0	1499	1475	419	1035	7.60	171	68.4	27.1	30.8	36.8	34.8
9-10 PM	1556	0.0	506	0.0	1499	1464	92	599	6.74	148	68.8	29.2	30.8	37.3	36.9
10-11 PM	1131	0.0	368	0.0	1500	1131	0	368	1.63	31	69.3	52.1	38.0	37.9	37.9
11PM-MID	736	0.0	240	0.0	1500	736	0	240	0.56	0	69.8	62.7	42.6	38.6	38.6

+ 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	0.0455
MAIN ROUTE WITH WORKS	0.0242
DIVERSION	0.3841

PIA: Personal Injury Accidents

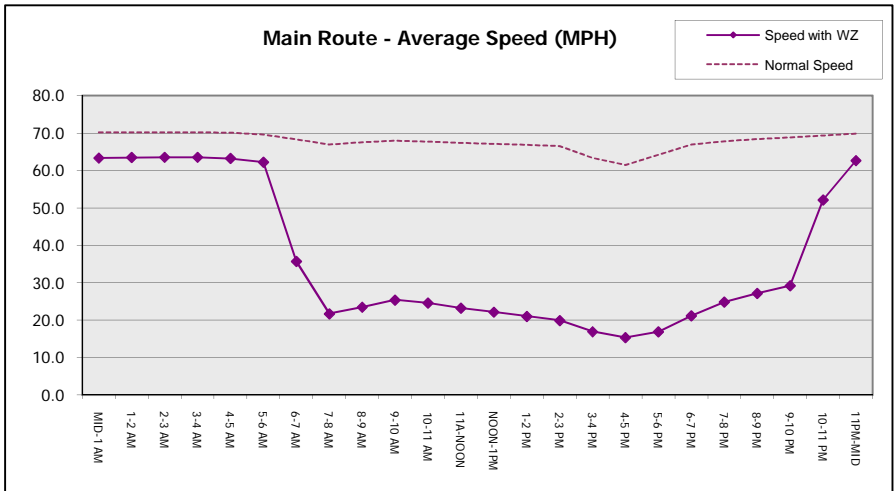
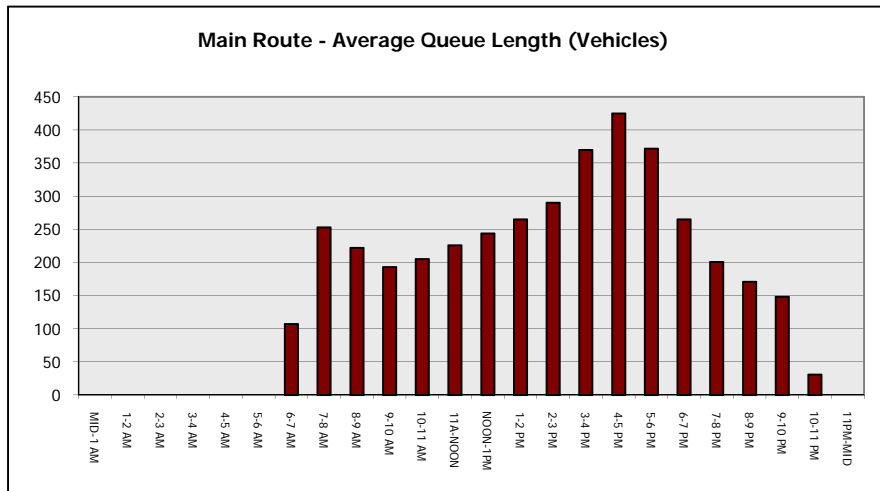
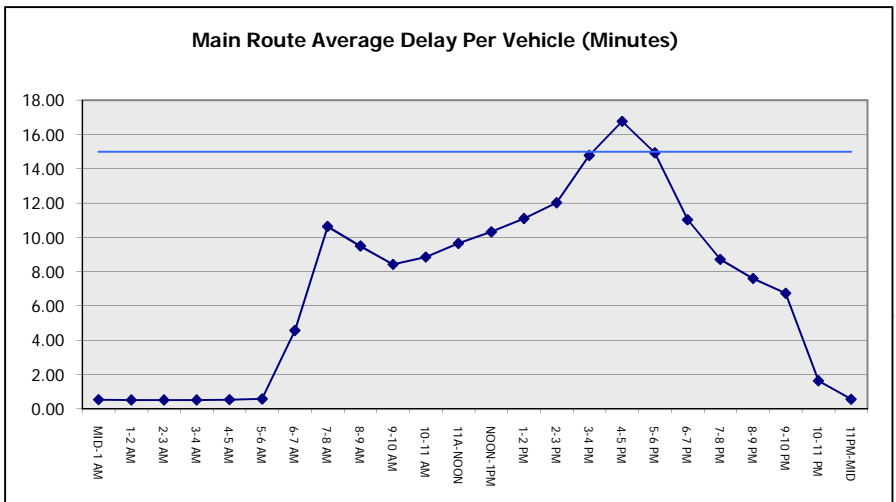
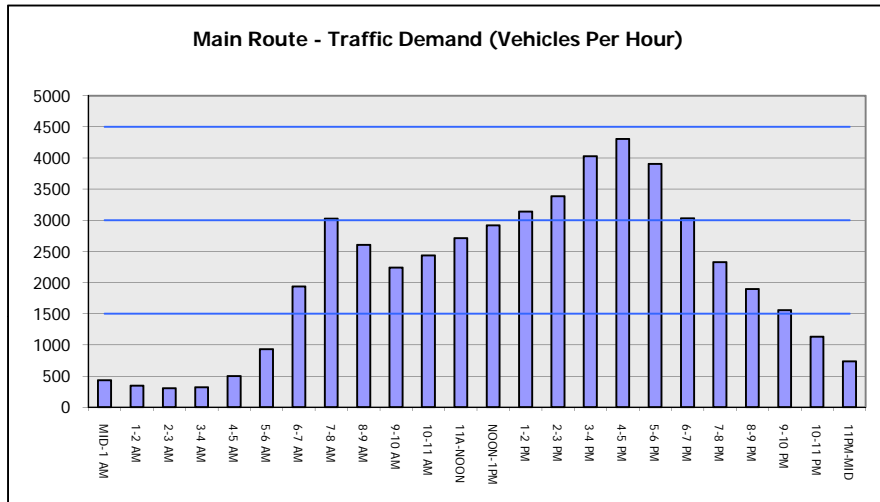
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$135,018
CONGESTED HOURS PER DAY*	1

*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
FRIDAY WESTBOUND DIRECTION



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

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		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	364	0.0	118	0.0	1500	364	0	118	0.52	0	70.2	63.5	44.0	39.2	39.2
1-2 AM	316	0.0	103	0.0	1500	316	0	103	0.51	0	70.2	63.5	44.2	39.2	39.2
2-3 AM	319	0.0	104	0.0	1500	319	0	104	0.51	0	70.2	63.5	44.2	39.2	39.2
3-4 AM	375	0.0	122	0.0	1500	375	0	122	0.52	0	70.2	63.4	44.0	39.2	39.2
4-5 AM	448	0.0	145	0.0	1500	448	0	145	0.53	0	70.2	63.3	43.7	39.1	39.1
5-6 AM	967	0.0	315	0.0	1499	967	0	315	0.63	0	69.6	61.7	40.7	38.3	38.3
6-7 AM	2241	0.0	730	0.0	1499	1712	530	1260+	7.36	171	67.9	27.6	31.0	36.2	33.7
7-8 AM	2802	0.0	912	0.0	1499	1525	1277	2190+	9.92	233	67.3	22.8	30.8	35.3	29.2
8-9 AM	2338	0.0	762	0.0	1500	1457	880	1642+	8.72	201	67.8	24.8	30.8	36.1	31.9
9-10 AM	2097	0.0	683	0.0	1500	1488	609	1292+	8.05	183	68.1	26.1	30.8	36.5	33.5
10-11 AM	2226	0.0	725	0.0	1499	1512	714	1439+	8.32	190	67.9	25.6	30.8	36.3	32.8
11A-NOON	2449	0.0	797	0.0	1500	1516	933	1730+	8.89	206	67.7	24.5	30.8	35.9	31.4
NOON-1PM	2542	0.0	828	0.0	1500	1507	1035	1863+	9.17	213	67.6	24.0	30.8	35.8	30.8
1-2 PM	2727	0.0	888	0.0	1500	1517	1210	2098+	9.70	228	67.3	23.1	30.8	35.5	29.6
2-3 PM	3002	0.0	978	0.0	1500	1526	1476	2454+	10.58	251	67.0	21.8	30.8	35.0	27.9
3-4 PM	3288	0.0	1071	0.0	1500	1531	1757	2828+	11.63	280	66.6	20.4	30.8	34.6	26.1
4-5 PM	3651	0.0	1189	0.0	1500	1535	2116	3305+	13.19	322	65.9	18.6	30.8	34.0	23.8
5-6 PM	3331	0.0	1085	0.0	1500	1448	1883	2968+	12.08	292	66.6	19.9	30.8	34.5	25.5
6-7 PM	2582	0.0	840	0.0	1500	1433	1148	1989+	9.45	222	67.5	23.5	30.8	35.7	30.2
7-8 PM	2044	0.0	665	0.0	1499	1466	578	1243+	7.96	181	68.2	26.3	30.8	36.5	33.8
8-9 PM	1586	0.0	517	0.0	1500	1470	116	633	6.91	152	68.7	28.8	30.8	37.3	36.7
9-10 PM	1297	0.0	423	0.0	1499	1297	0	423	2.99	66	69.1	43.0	33.7	37.7	37.7
10-11 PM	989	0.0	322	0.0	1500	989	0	322	0.59	0	69.5	62.1	41.7	38.2	38.2
11PM-MID	686	0.0	224	0.0	1500	686	0	224	0.55	0	69.9	62.8	42.8	38.7	38.7

+ 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	0.0405
MAIN ROUTE WITH WORKS	0.0239
DIVERSION	0.3144

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$102,660
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
FRIDAY EASTBOUND DIRECTION

