

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

MAY
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	503	0.0	264	0.0	1500	503	0	264	0.53	0	70.1	60.7	43.5	33.7	33.7
1-2 AM	417	0.0	219	0.0	1500	417	0	219	0.52	0	70.2	60.9	43.8	33.8	33.8
2-3 AM	364	0.0	191	0.0	1500	364	0	191	0.52	0	70.2	61.0	44.0	34.0	34.0
3-4 AM	386	0.0	202	0.0	1500	386	0	202	0.52	0	70.2	60.9	44.0	33.9	33.9
4-5 AM	550	0.0	288	0.0	1500	550	0	288	0.54	0	70.0	60.5	43.3	33.6	33.6
5-6 AM	1096	0.0	574	0.0	OFF	1096	0	574	0.00	0	69.4	69.4	69.4	32.4	32.4
6-7 AM	2399	0.0	1258	0.0	OFF	2399	0	1258+	0.00	0	67.8	67.8	67.8	29.6	29.6
7-8 AM	3479	0.0	1824	0.0	OFF	3479	0	1824+	0.00	0	66.4	66.4	66.4	27.2	27.2
8-9 AM	3041	0.0	1595	0.0	OFF	3041	0	1595+	0.00	0	66.9	66.9	66.9	28.1	28.1
9-10 AM	2624	0.0	1376	0.0	OFF	2624	0	1376+	0.00	0	67.5	67.5	67.5	29.1	29.1
10-11 AM	2745	0.0	1439	0.0	OFF	2745	0	1439+	0.00	0	67.3	67.3	67.3	28.8	28.8
11A-NOON	3012	0.0	1579	0.0	OFF	3012	0	1579+	0.00	0	67.0	67.0	67.0	28.2	28.2
NOON-1PM	3250	0.0	1704	0.0	OFF	3250	0	1704+	0.00	0	66.7	66.7	66.7	27.7	27.7
1-2 PM	3513	0.0	1842	0.0	OFF	3513	0	1842+	0.00	0	66.4	66.4	66.4	27.1	27.1
2-3 PM	3799	0.0	1992	0.0	OFF	3799	0	1992+	0.00	0	64.9	64.9	64.9	26.5	26.5
3-4 PM	4501	0.0	2360	0.0	OFF	4501	0	2360+	0.00	0	60.1	60.1	60.1	25.0	25.0
4-5 PM	4586	0.0	2405	0.0	OFF	4586	0	2405+	0.00	0	59.6	59.6	59.6	24.8	24.8
5-6 PM	4263	0.0	2235	0.0	OFF	4263	0	2235+	0.00	0	61.7	61.7	61.7	25.5	25.5
6-7 PM	3538	0.0	1855	0.0	OFF	3538	0	1855+	0.00	0	66.3	66.3	66.3	27.1	27.1
7-8 PM	2813	0.0	1474	0.0	1499	1848	966	2440+	14.71	369	67.3	13.1	32.5	28.6	24.6
8-9 PM	2390	0.0	1254	0.0	1499	1478	912	2166+	13.92	337	67.8	13.7	30.8	29.6	25.8
9-10 PM	1927	0.0	1011	0.0	1500	1457	470	1481+	12.21	291	68.3	15.3	30.8	30.6	28.6
10-11 PM	1514	0.0	794	0.0	1499	1424	91	885	10.60	249	68.9	17.0	30.8	31.5	31.1
11PM-MID	961	0.0	503	0.0	1500	961	0	503	1.85	51	69.6	45.2	39.6	32.7	32.7

"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	0.0367
MAIN ROUTE WITH WORKS	0.0346
DIVERSION	0.3425

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$31,290
CONGESTED HOURS PER DAY*	0

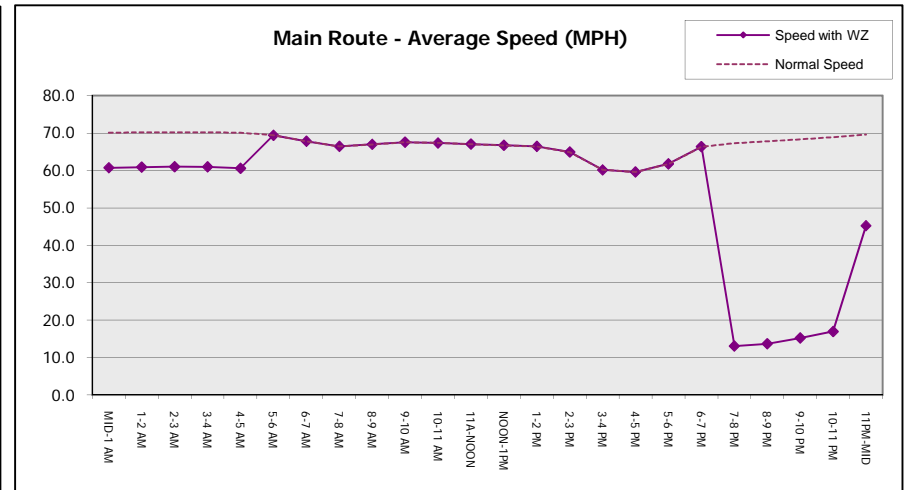
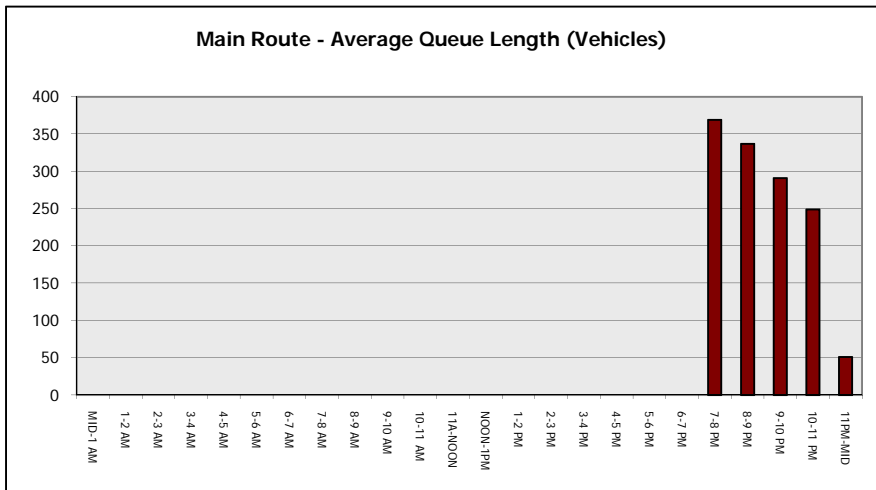
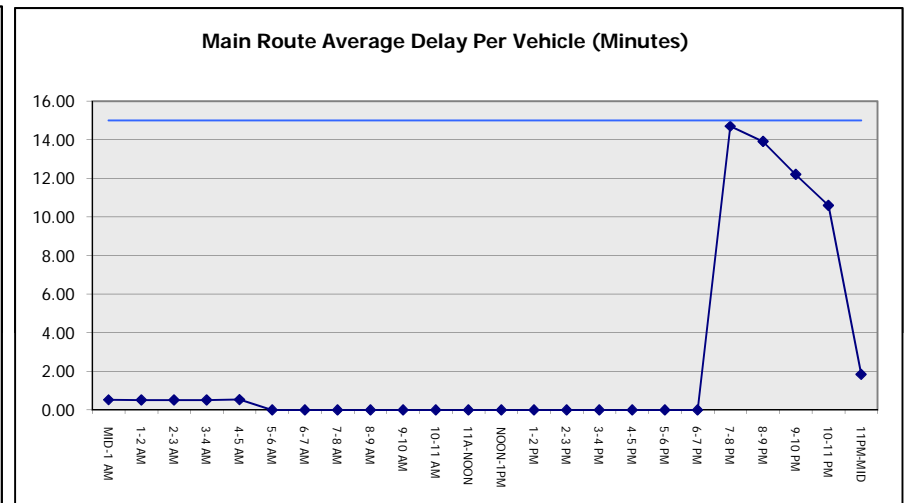
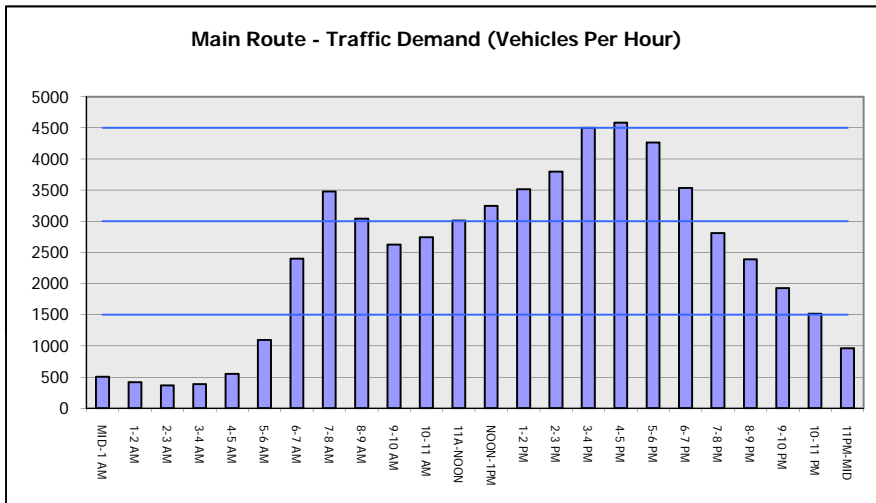
*Delays Exceeding 15 Minutes

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NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: BELTLINE - USH 51 - STH 30

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY WESTBOUND DIRECTION



IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: BELTLINE - USH 51 - STH 30	MAY Analyzed for 2009 Construction Season
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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		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	425	0.0	223	0.0	1500	425	0	223	0.52	0	70.2	60.9	43.8	33.8	33.8
1-2 AM	336	0.0	176	0.0	1500	336	0	176	0.51	0	70.2	61.0	44.2	34.0	34.0
2-3 AM	334	0.0	175	0.0	1500	334	0	175	0.51	0	70.2	61.0	44.2	34.0	34.0
3-4 AM	370	0.0	194	0.0	1500	370	0	194	0.52	0	70.2	60.9	44.0	34.0	34.0
4-5 AM	461	0.0	242	0.0	1500	461	0	242	0.53	0	70.2	60.7	43.7	33.8	33.8
5-6 AM	1144	0.0	600	0.0	OFF	1144	0	600	0.00	0	69.3	69.3	69.3	32.3	32.3
6-7 AM	2684	0.0	1407	0.0	OFF	2684	0	1407+	0.00	0	67.4	67.4	67.4	28.9	28.9
7-8 AM	3108	0.0	1629	0.0	OFF	3108	0	1629+	0.00	0	66.9	66.9	66.9	28.0	28.0
8-9 AM	2494	0.0	1308	0.0	OFF	2494	0	1308+	0.00	0	67.6	67.6	67.6	29.3	29.3
9-10 AM	2322	0.0	1218	0.0	OFF	2322	0	1218+	0.00	0	67.9	67.9	67.9	29.7	29.7
10-11 AM	2446	0.0	1282	0.0	OFF	2446	0	1282+	0.00	0	67.7	67.7	67.7	29.4	29.4
11A-NOON	2582	0.0	1354	0.0	OFF	2582	0	1354+	0.00	0	67.5	67.5	67.5	29.1	29.1
NOON-1PM	2800	0.0	1468	0.0	OFF	2800	0	1468+	0.00	0	67.3	67.3	67.3	28.7	28.7
1-2 PM	2845	0.0	1492	0.0	OFF	2845	0	1492+	0.00	0	67.2	67.2	67.2	28.6	28.6
2-3 PM	3185	0.0	1670	0.0	OFF	3185	0	1670+	0.00	0	66.8	66.8	66.8	27.8	27.8
3-4 PM	3433	0.0	1800	0.0	OFF	3433	0	1800+	0.00	0	66.4	66.4	66.4	27.3	27.3
4-5 PM	3681	0.0	1930	0.0	OFF	3681	0	1930+	0.00	0	65.7	65.7	65.7	26.8	26.8
5-6 PM	3423	0.0	1795	0.0	OFF	3423	0	1795+	0.00	0	66.5	66.5	66.5	27.3	27.3
6-7 PM	2810	0.0	1473	0.0	OFF	2810	0	1473+	0.00	0	67.3	67.3	67.3	28.6	28.6
7-8 PM	2248	0.0	1178	0.0	1499	1817	431	1610+	11.15	273	67.9	16.3	31.7	29.9	28.1
8-9 PM	1787	0.0	937	0.0	1499	1455	332	1269+	11.75	279	68.5	15.7	30.8	30.9	29.5
9-10 PM	1514	0.0	794	0.0	1499	1453	61	855	10.70	251	68.9	16.9	30.8	31.5	31.2
10-11 PM	1170	0.0	613	0.0	1499	1170	0	613	3.14	93	69.3	36.3	36.1	32.2	32.2
11PM-MID	876	0.0	459	0.0	1500	876	0	459	0.57	0	69.6	59.7	42.1	32.9	32.9

"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	0.0309
MAIN ROUTE WITH WORKS	0.0298
DIVERSION	0.2750

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$18,008
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY)
NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: BELTLINE - USH 51 - STH 30

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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

