

IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE DIVERSION ROUTE: BELTLINE - USH 51 - STH 30	MAY
	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	655	0.0	343	0.0	OFF	655	0	343	0.00	0	69.9	69.9	69.9	33.3	33.3
1-2 AM	431	0.0	226	0.0	OFF	431	0	226	0.00	0	70.2	70.2	70.2	33.8	33.8
2-3 AM	354	0.0	186	0.0	OFF	354	0	186	0.00	0	70.2	70.2	70.2	34.0	34.0
3-4 AM	323	0.0	170	0.0	OFF	323	0	170	0.00	0	70.2	70.2	70.2	34.1	34.1
4-5 AM	363	0.0	190	0.0	OFF	363	0	190	0.00	0	70.2	70.2	70.2	34.0	34.0
5-6 AM	632	0.0	332	0.0	OFF	632	0	332	0.00	0	69.9	69.9	69.9	33.4	33.4
6-7 AM	1119	0.0	587	0.0	OFF	1119	0	587	0.00	0	69.4	69.4	69.4	32.4	32.4
7-8 AM	1767	0.0	926	0.0	OFF	1767	0	926	0.00	0	68.6	68.6	68.6	30.9	30.9
8-9 AM	2297	0.0	1204	0.0	1499	1838	459	1663+	10.06	254	67.9	17.6	30.8	29.7	27.8
9-10 AM	2678	0.0	1404	0.0	1499	1543	1135	2540+	15.03	366	67.4	12.9	30.8	28.9	24.2
10-11 AM	2989	0.0	1568	0.0	1500	1541	1448	3016+	16.67	410	67.0	11.9	30.8	28.3	22.2
11A-NOON	3087	0.0	1619	0.0	1500	1509	1579	3197+	17.37	428	66.9	11.4	30.8	28.0	21.5
NOON-1PM	3036	0.0	1592	0.0	1500	1488	1547	3139+	17.14	422	66.9	11.6	30.8	28.1	21.7
1-2 PM	2950	0.0	1547	0.0	1500	1485	1465	3011+	16.65	409	67.1	11.9	30.8	28.3	22.2
2-3 PM	2817	0.0	1478	0.0	1500	1482	1335	2813+	15.93	390	67.3	12.3	30.8	28.6	23.0
3-4 PM	2795	0.0	1465	0.0	1499	1496	1299	2764+	15.77	386	67.3	12.4	30.8	28.7	23.3
4-5 PM	2613	0.0	1370	0.0	1500	1473	1140	2510+	14.94	364	67.5	13.0	30.8	29.1	24.3
5-6 PM	2305	0.0	1209	0.0	1500	1464	841	2049+	13.60	329	67.9	14.0	30.8	29.7	26.3
6-7 PM	1955	0.0	1024	0.0	OFF	1955	0	1024	0.15	12	68.3	65.6	65.6	30.5	30.5
7-8 PM	1658	0.0	870	0.0	OFF	1658	0	870	0.00	0	68.7	68.7	68.7	31.2	31.2
8-9 PM	1381	0.0	724	0.0	OFF	1381	0	724	0.00	0	69.0	69.0	69.0	31.7	31.7
9-10 PM	1215	0.0	637	0.0	OFF	1215	0	637	0.00	0	69.2	69.2	69.2	32.1	32.1
10-11 PM	933	0.0	489	0.0	OFF	933	0	489	0.00	0	69.6	69.6	69.6	32.7	32.7
11PM-MID	706	0.0	370	0.0	OFF	706	0	370	0.00	0	69.9	69.9	69.9	33.2	33.2

"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	0.0261
MAIN ROUTE WITH WORKS	0.0173
DIVERSION	0.3540

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$143,257
CONGESTED HOURS PER DAY*	7

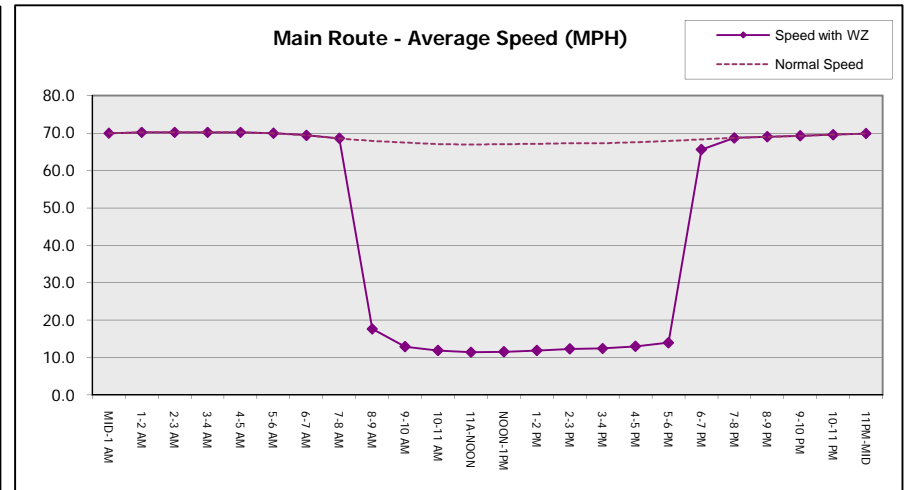
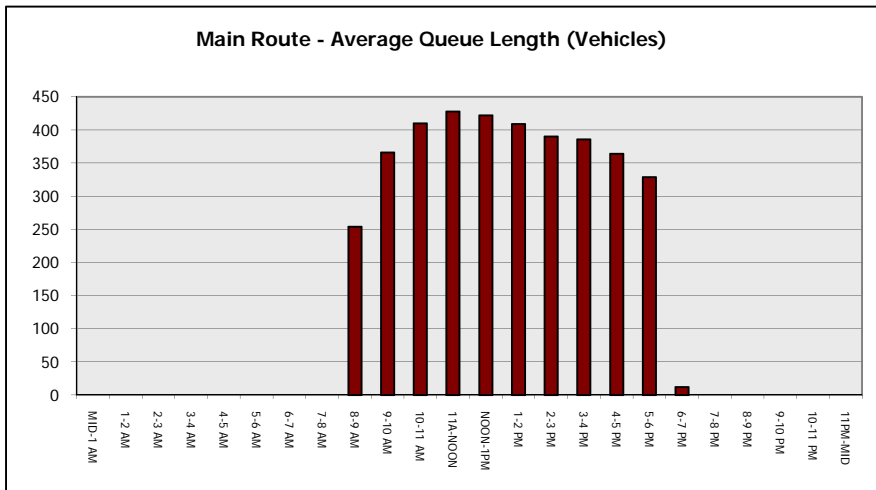
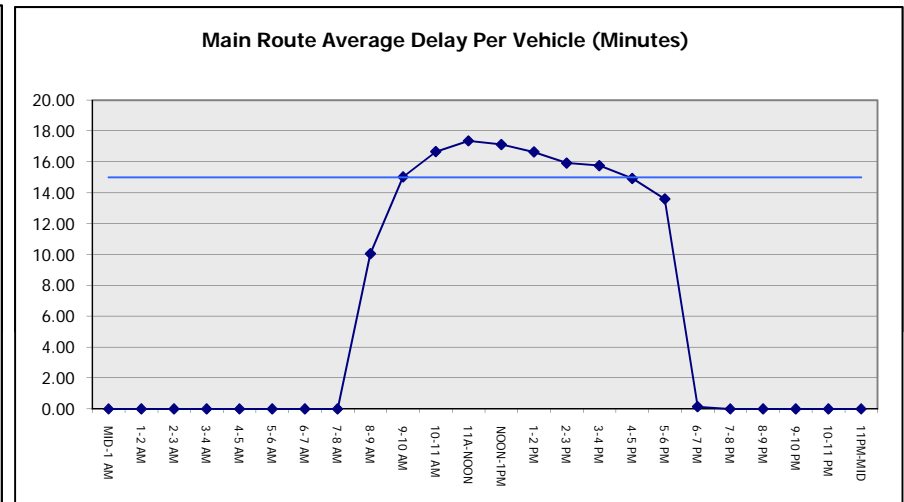
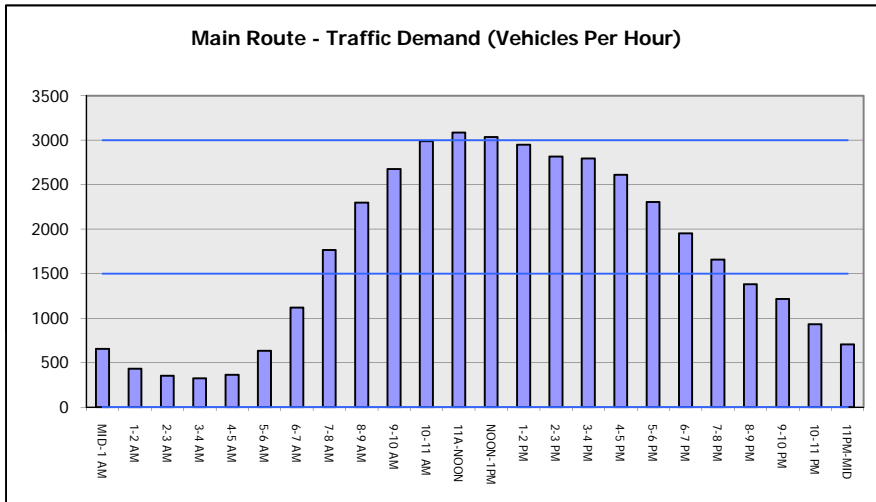
*Delays Exceeding 15 Minutes

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OFF-PEAK DAY 2 LANE CLOSURE
DIVERSION ROUTE: BELTLINE - USH 51 - STH 30

MAY
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY WESTBOUND DIRECTION



IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY) OFF-PEAK DAY 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	
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	536	0.0	280	0.0	OFF	536	0	280	0.00	0	70.0	70.0	70.0	33.6	33.6
1-2 AM	345	0.0	181	0.0	OFF	345	0	181	0.00	0	70.2	70.2	70.2	34.0	34.0
2-3 AM	304	0.0	159	0.0	OFF	304	0	159	0.00	0	70.2	70.2	70.2	34.1	34.1
3-4 AM	289	0.0	152	0.0	OFF	289	0	152	0.00	0	70.2	70.2	70.2	34.2	34.2
4-5 AM	324	0.0	170	0.0	OFF	324	0	170	0.00	0	70.2	70.2	70.2	34.1	34.1
5-6 AM	447	0.0	234	0.0	OFF	447	0	234	0.00	0	70.2	70.2	70.2	33.8	33.8
6-7 AM	803	0.0	421	0.0	OFF	803	0	421	0.00	0	69.7	69.7	69.7	33.0	33.0
7-8 AM	1321	0.0	693	0.0	OFF	1321	0	693	0.00	0	69.1	69.1	69.1	31.9	31.9
8-9 AM	1804	0.0	946	0.0	1499	1804	0	946	4.98	126	68.5	28.3	30.8	30.9	30.9
9-10 AM	2139	0.0	1122	0.0	1499	1511	628	1749+	12.84	308	68.1	14.7	30.8	30.1	27.5
10-11 AM	2441	0.0	1280	0.0	1499	1531	910	2189+	13.99	339	67.7	13.7	30.8	29.4	25.6
11A-NOON	2588	0.0	1357	0.0	1500	1515	1073	2430+	14.69	357	67.5	13.2	30.8	29.1	24.7
NOON-1PM	2681	0.0	1405	0.0	1500	1508	1173	2578+	15.15	369	67.4	12.9	30.8	28.9	24.0
1-2 PM	2595	0.0	1360	0.0	1500	1487	1108	2468+	14.81	360	67.5	13.0	30.8	29.1	24.5
2-3 PM	2545	0.0	1334	0.0	1500	1494	1050	2384+	14.55	353	67.6	13.2	30.8	29.2	24.8
3-4 PM	2499	0.0	1310	0.0	1500	1495	1004	2314+	14.35	348	67.6	13.4	30.8	29.3	25.2
4-5 PM	2470	0.0	1295	0.0	1499	1494	976	2271+	14.22	345	67.7	13.5	30.8	29.4	25.3
5-6 PM	2251	0.0	1180	0.0	1500	1473	778	1959+	13.37	322	67.9	14.2	30.8	29.9	26.6
6-7 PM	1880	0.0	986	0.0	OFF	1880	0	986	0.14	11	68.4	65.8	65.8	30.7	30.7
7-8 PM	1607	0.0	842	0.0	OFF	1607	0	842	0.00	0	68.7	68.7	68.7	31.2	31.2
8-9 PM	1460	0.0	765	0.0	OFF	1460	0	765	0.00	0	68.9	68.9	68.9	31.6	31.6
9-10 PM	1289	0.0	675	0.0	OFF	1289	0	675	0.00	0	69.1	69.1	69.1	32.0	32.0
10-11 PM	1059	0.0	556	0.0	OFF	1059	0	556	0.00	0	69.4	69.4	69.4	32.5	32.5
11PM-MID	728	0.0	381	0.0	OFF	728	0	381	0.00	0	69.8	69.8	69.8	33.2	33.2

"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	0.0232
MAIN ROUTE WITH WORKS	0.0166
DIVERSION	0.2912

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$109,233
CONGESTED HOURS PER DAY*	1

*Delays Exceeding 15 Minutes

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OFF-PEAK DAY 2 LANE CLOSURE
DIVERSION ROUTE: BELTLINE - USH 51 - STH 30

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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY EASTBOUND DIRECTION

