

IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE DIVERSION ROUTE: BELTLINE - USH 51 - STH 30	AUGUST
	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	595	0.0	312	0.0	1500	595	0	312	0.54	0	70.0	60.4	43.2	33.5	33.5
1-2 AM	470	0.0	247	0.0	1500	470	0	247	0.53	0	70.2	60.7	43.6	33.7	33.7
2-3 AM	394	0.0	207	0.0	1500	394	0	207	0.52	0	70.2	60.9	43.9	33.9	33.9
3-4 AM	411	0.0	216	0.0	1500	411	0	216	0.52	0	70.2	60.9	43.8	33.9	33.9
4-5 AM	582	0.0	305	0.0	1500	582	0	305	0.54	0	70.0	60.4	43.2	33.5	33.5
5-6 AM	1069	0.0	560	0.0	1499	1069	0	560	0.69	0	69.4	57.9	39.1	32.4	32.4
6-7 AM	2270	0.0	1190	0.0	1499	1854	416	1606+	8.45	228	67.9	20.1	30.8	29.8	28.1
7-8 AM	3444	0.0	1806	0.0	1500	1665	1779	3585+	19.06	475	66.4	10.6	30.8	27.3	19.8
8-9 AM	3164	0.0	1659	0.0	1500	1414	1750	3409+	18.27	453	66.8	11.0	30.8	27.9	20.6
9-10 AM	3005	0.0	1576	0.0	1500	1485	1520	3096+	16.98	418	67.0	11.7	30.8	28.2	21.9
10-11 AM	3229	0.0	1693	0.0	1499	1550	1679	3372+	18.10	448	66.7	11.1	30.8	27.7	20.7
11A-NOON	3624	0.0	1899	0.0	1500	1587	2037	3936+	20.84	521	66.1	9.8	30.8	26.9	18.4
NOON-1PM	3930	0.0	2060	0.0	1500	1567	2363	4424+	23.76	600	64.0	8.7	30.8	26.2	16.3
1-2 PM	3864	0.0	2026	0.0	1500	1484	2380	4406+	23.66	597	64.5	8.8	30.8	26.3	16.4
2-3 PM	4266	0.0	2236	0.0	1499	1557	2709	4945+	25.84	658	61.7	8.1	30.8	25.5	15.2
3-4 PM	4864	0.0	2550	0.0	1499	1500	3364	5914+	26.01	670	57.6	7.9	30.8	24.2	14.9
4-5 PM	4973	0.0	2607	0.0	1500	1500	3473	6080+	25.96	670	56.9	7.9	30.8	23.9	14.9
5-6 PM	4285	0.0	2247	0.0	1499	1500	2785	5032+	26.28	669	61.6	7.9	30.8	25.4	14.9
6-7 PM	3906	0.0	2048	0.0	1500	1396	2510	4558+	24.74	627	64.1	8.4	30.8	26.3	15.8
7-8 PM	3082	0.0	1616	0.0	1500	1344	1738	3354+	18.03	448	66.9	11.1	30.8	28.1	20.8
8-9 PM	2561	0.0	1343	0.0	1499	1442	1119	2462+	14.79	360	67.6	13.1	30.8	29.2	24.5
9-10 PM	2263	0.0	1187	0.0	1499	1468	794	1981+	13.42	324	67.9	14.2	30.8	29.8	26.5
10-11 PM	1736	0.0	909	0.0	1500	1451	284	1193	11.59	275	68.6	15.9	30.8	31.0	29.8
11PM-MID	1083	0.0	568	0.0	1499	1083	0	568	3.39	112	69.4	35.0	36.7	32.4	32.4

+ 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	0.0402
MAIN ROUTE WITH WORKS	0.0173
DIVERSION	0.6893

PIA: Personal Injury Accidents

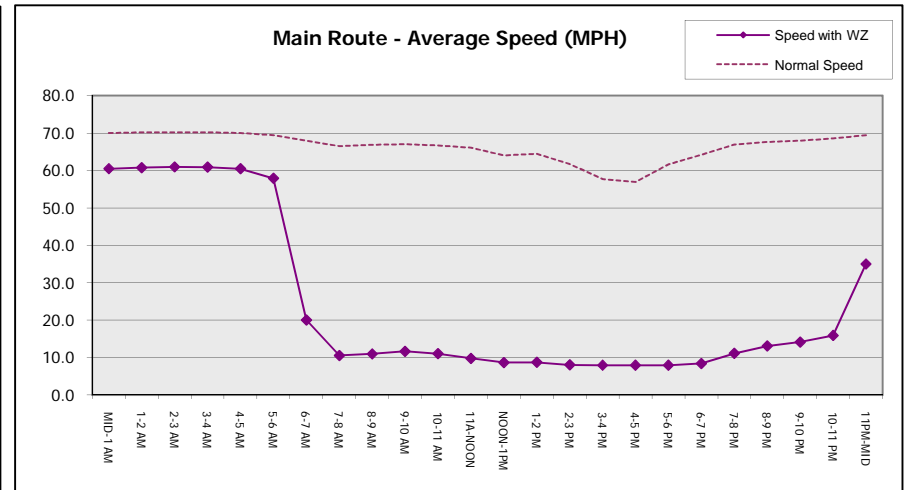
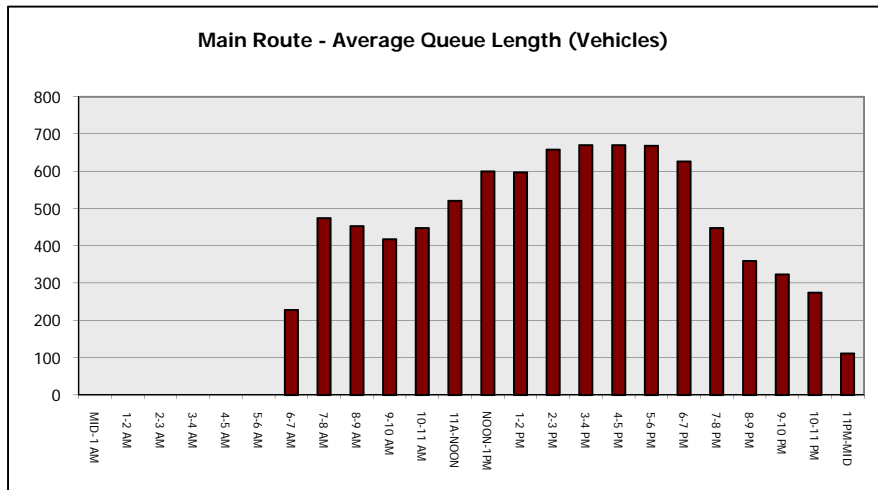
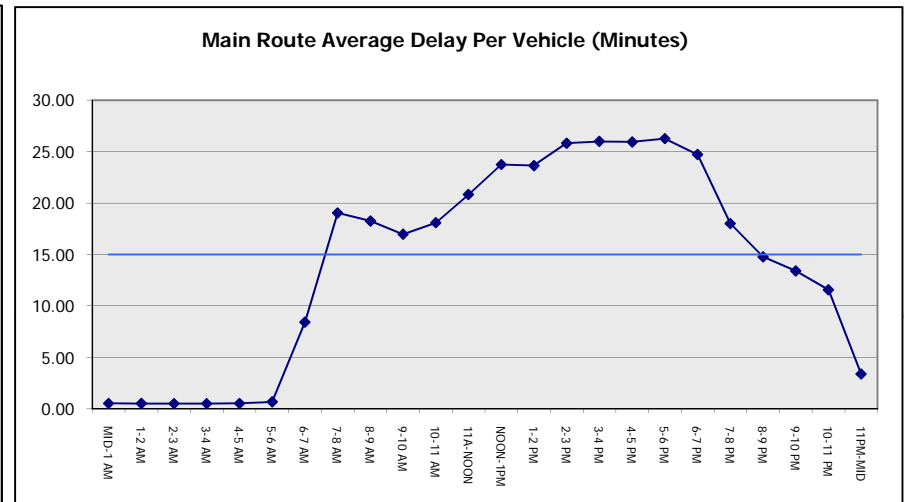
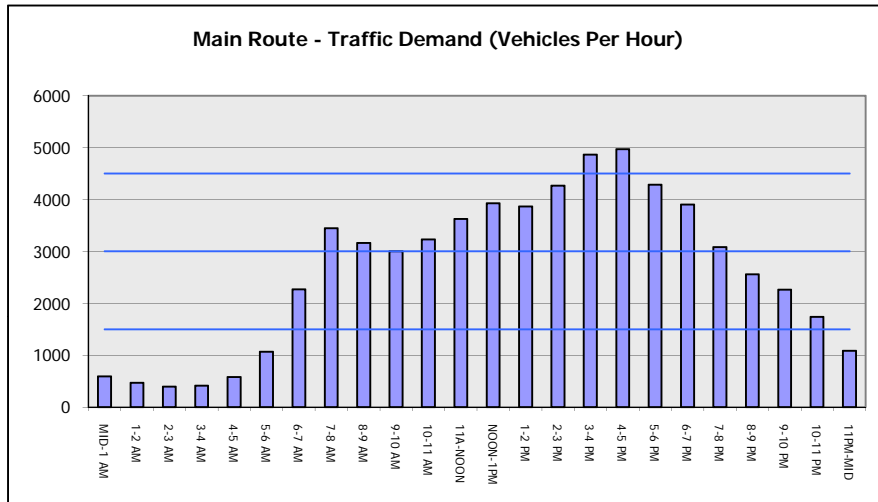
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$365,867
CONGESTED HOURS PER DAY*	13

*Delays Exceeding 15 Minutes

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

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



IH 39/90/94: IH 94/STH 30 TO BELTLINE (DANE COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE DIVERSION ROUTE: BELTLINE - USH 51 - STH 30	AUGUST
	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		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	525	0.0	275	0.0	1500	525	0	275	0.54	0	70.1	60.6	43.4	33.7	33.7
1-2 AM	443	0.0	232	0.0	1500	443	0	232	0.53	0	70.2	60.8	43.7	33.8	33.8
2-3 AM	396	0.0	207	0.0	1500	396	0	207	0.52	0	70.2	60.9	43.9	33.9	33.9
3-4 AM	394	0.0	206	0.0	1500	394	0	206	0.52	0	70.2	60.9	43.9	33.9	33.9
4-5 AM	515	0.0	270	0.0	1500	515	0	270	0.53	0	70.1	60.6	43.5	33.7	33.7
5-6 AM	1107	0.0	580	0.0	1499	1107	0	580	0.74	0	69.4	57.2	38.0	32.4	32.4
6-7 AM	2586	0.0	1355	0.0	1499	1895	691	2046+	11.65	300	67.5	15.8	30.8	29.1	26.3
7-8 AM	3284	0.0	1721	0.0	1499	1571	1713	3434+	18.37	455	66.6	10.9	30.8	27.6	20.5
8-9 AM	2677	0.0	1404	0.0	1500	1393	1284	2688+	15.52	380	67.4	12.6	30.8	28.9	23.6
9-10 AM	2522	0.0	1323	0.0	1499	1493	1029	2352+	14.45	351	67.6	13.4	30.8	29.2	25.0
10-11 AM	2791	0.0	1463	0.0	1499	1543	1248	2711+	15.58	381	67.3	12.5	30.8	28.7	23.5
11A-NOON	3105	0.0	1628	0.0	1499	1547	1558	3186+	17.33	427	66.9	11.5	30.8	28.0	21.5
NOON-1PM	3218	0.0	1687	0.0	1500	1519	1699	3386+	18.16	449	66.8	11.1	30.8	27.8	20.7
1-2 PM	3470	0.0	1820	0.0	1499	1557	1914	3733+	19.78	492	66.4	10.2	30.8	27.2	19.3
2-3 PM	3820	0.0	2003	0.0	1500	1582	2238	4241+	22.58	568	64.8	9.1	30.8	26.5	17.1
3-4 PM	3950	0.0	2071	0.0	1500	1529	2421	4492+	24.24	613	63.9	8.6	30.8	26.1	16.1
4-5 PM	4058	0.0	2127	0.0	1500	1519	2539	4666+	25.53	647	63.2	8.2	30.8	25.9	15.3
5-6 PM	3820	0.0	2003	0.0	1500	1399	2421	4424+	23.81	601	64.8	8.7	30.8	26.5	16.3
6-7 PM	3016	0.0	1581	0.0	1500	1347	1669	3250+	17.60	437	67.0	11.3	30.8	28.2	21.2
7-8 PM	2366	0.0	1240	0.0	1500	1430	936	2176+	13.95	338	67.8	13.7	30.8	29.6	25.7
8-9 PM	2000	0.0	1048	0.0	1499	1469	532	1580+	12.44	297	68.2	15.0	30.8	30.4	28.2
9-10 PM	1718	0.0	901	0.0	1499	1476	242	1143	11.49	272	68.6	16.0	30.8	31.1	30.0
10-11 PM	1338	0.0	701	0.0	1499	1328	10	711	8.38	199	69.1	20.2	31.4	31.9	31.8
11PM-MID	980	0.0	514	0.0	1500	980	0	514	0.88	10	69.5	55.4	41.4	32.7	32.7

+ 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	0.0345
MAIN ROUTE WITH WORKS	0.0171
DIVERSION	0.5503

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$270,350
CONGESTED HOURS PER DAY*	11

*Delays Exceeding 15 Minutes

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

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

