

**USH 12/18: VERONA RD TO USH 51 (DANE COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: MONONA DR - CTH BW**

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	433	0.0	31	0.0	3000	433	0	31	0.22	0	60.2	52.6	49.7	29.7	29.7
1-2 AM	300	0.0	30	0.0	3000	300	0	30	0.22	0	60.2	52.6	49.7	29.7	29.7
2-3 AM	245	0.0	19	0.0	3000	245	0	19	0.22	0	60.2	52.6	49.7	29.7	29.7
3-4 AM	257	0.0	15	0.0	3000	257	0	15	0.22	0	60.2	52.6	49.7	29.7	29.7
4-5 AM	445	0.0	32	0.0	3000	445	0	32	0.22	0	60.2	52.6	49.7	29.7	29.7
5-6 AM	1603	0.0	206	0.0	3000	1603	0	206	0.22	0	60.2	52.6	49.7	29.1	29.1
6-7 AM	4470	0.0	576	0.0	2999	3194	1276	1852+	3.51	166	60.2	18.8	37.4	27.8	23.7
7-8 AM	5361	0.0	1008	0.0	3000	3055	2306	3314+	4.91	250	54.2	15.5	37.3	26.3	19.0
8-9 AM	4061	0.0	697	0.0	2999	2889	1172	1868+	3.49	162	60.2	18.8	37.8	27.4	23.7
9-10 AM	3455	0.0	478	0.0	2999	2978	476	955	2.83	122	60.2	20.9	37.3	28.1	26.5
10-11 AM	3266	0.0	490	0.0	3000	3001	265	755	2.71	116	60.2	21.4	37.3	28.1	27.1
11A-NOON	3586	0.0	624	0.0	3000	3018	568	1191	2.97	130	60.2	20.4	37.3	27.6	25.8
NOON-1PM	3783	0.0	782	0.0	3000	3009	774	1556+	3.22	144	60.2	19.6	37.3	27.1	24.7
1-2 PM	3696	0.0	636	0.0	3000	2990	707	1343+	3.07	136	60.2	20.1	37.3	27.6	25.3
2-3 PM	3816	0.0	590	0.0	3000	3006	810	1400+	3.11	138	60.2	19.9	37.3	27.8	25.2
3-4 PM	4039	0.0	668	0.0	3000	3012	1027	1695+	3.32	150	60.2	19.3	37.3	27.4	24.2
4-5 PM	4165	0.0	635	0.0	3000	3001	1164	1799+	3.41	155	60.2	19.0	37.3	27.6	23.9
5-6 PM	3940	0.0	624	0.0	3000	2985	955	1579+	3.24	145	60.2	19.5	37.3	27.6	24.6
6-7 PM	3403	0.0	501	0.0	3000	2973	430	931	2.81	122	60.2	21.0	37.3	28.1	26.6
7-8 PM	2648	0.0	348	0.0	2999	2648	0	348	0.78	30	60.2	39.6	42.8	28.6	28.6
8-9 PM	2237	0.0	265	0.0	3000	2237	0	265	0.22	0	60.2	52.6	49.7	28.9	28.9
9-10 PM	1895	0.0	227	0.0	3000	1895	0	227	0.22	0	60.2	52.6	49.7	29.0	29.0
10-11 PM	1529	0.0	145	0.0	3000	1529	0	145	0.22	0	60.2	52.6	49.7	29.3	29.3
11PM-MID	1105	0.0	105	0.0	3000	1105	0	105	0.22	0	60.2	52.6	49.7	29.4	29.4

+ 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	0.0152
MAIN ROUTE WITH WORKS	0.0089
DIVERSION	0.0576

PIA: Personal Injury Accidents

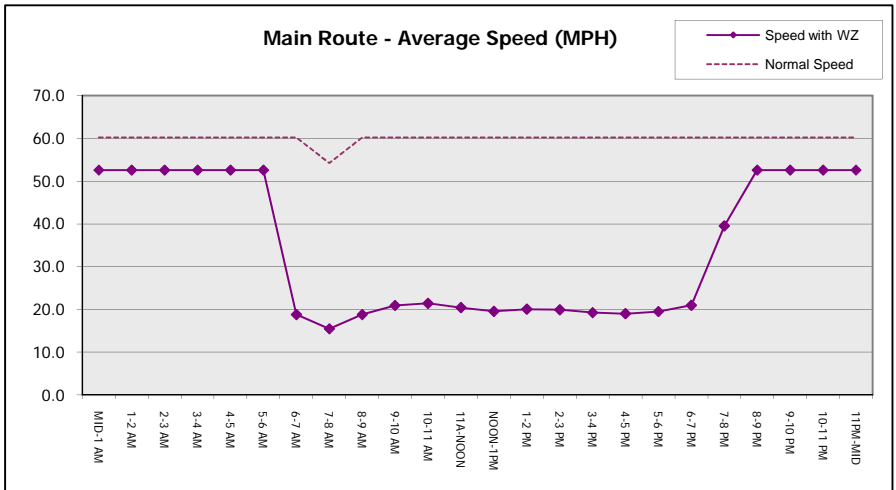
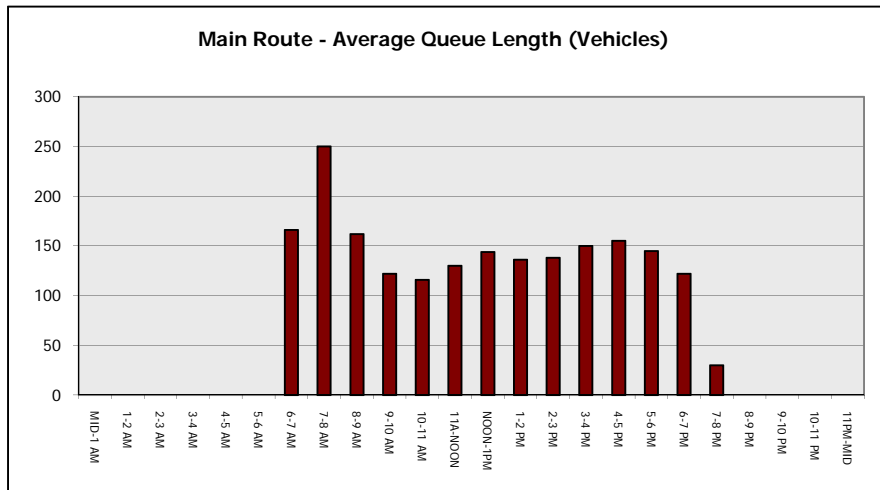
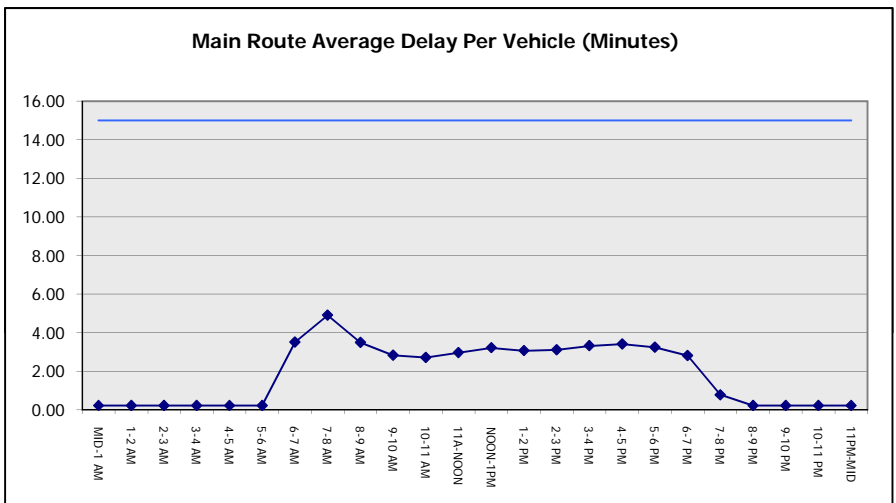
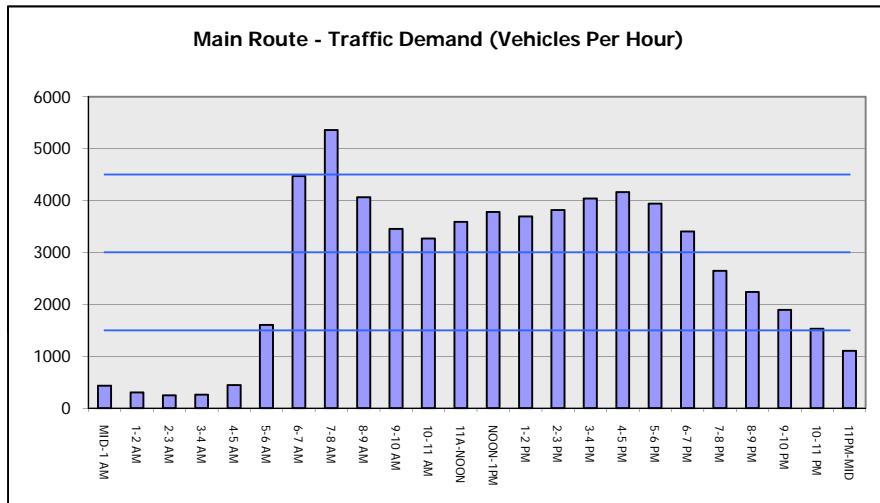
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$41,396
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: MONONA DR - CTH BW**

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



USH 12/18: VERONA RD TO USH 51 (DANE COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: MONONA DR - CTH BW	MAY
	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	444	0.0	29	0.0	3000	444	0	29	0.22	0	60.2	52.6	49.7	29.7	29.7
1-2 AM	312	0.0	31	0.0	3000	312	0	31	0.22	0	60.2	52.6	49.7	29.7	29.7
2-3 AM	306	0.0	15	0.0	3000	306	0	15	0.22	0	60.2	52.6	49.7	29.7	29.7
3-4 AM	259	0.0	8	0.0	3000	259	0	8	0.22	0	60.2	52.6	49.7	29.8	29.8
4-5 AM	451	0.0	20	0.0	3000	451	0	20	0.22	0	60.2	52.6	49.7	29.7	29.7
5-6 AM	1201	0.0	63	0.0	3000	1201	0	63	0.22	0	60.2	52.6	49.7	29.6	29.6
6-7 AM	2841	0.0	151	0.0	2999	2841	0	151	0.74	25	60.2	40.2	42.2	29.2	29.2
7-8 AM	4084	0.0	273	0.0	2999	3040	1044	1316+	3.06	135	60.2	20.1	37.3	28.9	25.4
8-9 AM	3419	0.0	303	0.0	2999	2971	448	750	2.71	116	60.2	21.4	37.3	28.8	27.2
9-10 AM	3040	0.0	312	0.0	2999	2994	46	358	2.50	104	60.2	22.5	37.3	28.7	28.6
10-11 AM	3257	0.0	439	0.0	3000	3015	242	682	2.67	113	60.2	21.6	37.3	28.3	27.4
11A-NOON	3775	0.0	604	0.0	3000	3026	749	1353+	3.08	136	60.2	20.1	37.3	27.7	25.3
NOON-1PM	4260	0.0	688	0.0	3000	3021	1239	1927+	3.52	161	60.2	18.7	37.3	27.4	23.5
1-2 PM	4273	0.0	577	0.0	2999	2996	1277	1855+	3.47	158	60.2	18.9	37.3	27.8	23.7
2-3 PM	4720	0.0	597	0.0	3000	3037	1683	2280+	3.85	182	58.6	17.8	37.3	27.7	22.2
3-4 PM	5548	0.0	811	0.0	3000	3072	2476	3287+	4.83	248	53.0	15.5	37.3	27.0	19.1
4-5 PM	5748	0.0	995	0.0	3000	3004	2744	3739+	5.45	286	51.6	14.6	37.3	26.3	17.8
5-6 PM	4858	0.0	690	0.0	2999	2896	1962	2652+	4.22	206	57.7	17.0	37.6	27.4	21.0
6-7 PM	3460	0.0	433	0.0	2999	2937	523	956	2.83	124	60.2	21.0	37.5	28.3	26.6
7-8 PM	2595	0.0	346	0.0	3000	2595	0	346	0.65	23	60.2	41.9	44.1	28.6	28.6
8-9 PM	2163	0.0	254	0.0	3000	2163	0	254	0.22	0	60.2	52.6	49.7	28.9	28.9
9-10 PM	1815	0.0	189	0.0	3000	1815	0	189	0.22	0	60.2	52.6	49.7	29.1	29.1
10-11 PM	1597	0.0	114	0.0	3000	1597	0	114	0.22	0	60.2	52.6	49.7	29.4	29.4
11PM-MID	1095	0.0	98	0.0	3000	1095	0	98	0.22	0	60.2	52.6	49.7	29.4	29.4

+ 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	0.0156
MAIN ROUTE WITH WORKS	0.0088
DIVERSION	0.0597

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$45,399
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: MONONA DR - CTH BW**

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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

