

USH 151: IH 39 TO STH 19 (DANE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE SEGMENT)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	175	0.0	1500	175	0	0.49	0	70.2	62.5	44.8
1-2 AM	147	0.0	1500	147	0	0.49	0	70.2	62.5	44.9
2-3 AM	102	0.0	1500	102	0	0.48	0	70.2	62.6	45.1
3-4 AM	131	0.0	1500	131	0	0.49	0	70.2	62.5	45.0
4-5 AM	269	0.0	1500	269	0	0.51	0	70.2	62.3	44.4
5-6 AM	748	0.0	OFF	748	0	0.00	0	69.8	69.8	69.8
6-7 AM	2011	0.0	OFF	2011	0	0.00	0	68.2	68.2	68.2
7-8 AM	2864	0.0	OFF	2864	0	0.00	0	67.2	67.2	67.2
8-9 AM	1945	0.0	OFF	1945	0	0.00	0	68.3	68.3	68.3
9-10 AM	1646	0.0	OFF	1646	0	0.00	0	68.7	68.7	68.7
10-11 AM	1682	0.0	OFF	1682	0	0.00	0	68.6	68.6	68.6
11AM-NOON	1817	0.0	OFF	1817	0	0.00	0	68.5	68.5	68.5
NOON-1PM	1871	0.0	OFF	1871	0	0.00	0	68.4	68.4	68.4
1-2 PM	1803	0.0	OFF	1803	0	0.00	0	68.5	68.5	68.5
2-3 PM	1843	0.0	OFF	1843	0	0.00	0	68.4	68.4	68.4
3-4 PM	1831	0.0	OFF	1831	0	0.00	0	68.4	68.4	68.4
4-5 PM	1921	0.0	OFF	1921	0	0.00	0	68.4	68.4	68.4
5-6 PM	1896	0.0	OFF	1896	0	0.00	0	68.4	68.4	68.4
6-7 PM	1676	0.0	OFF	1676	0	0.00	0	68.6	68.6	68.6
7-8 PM	1290	0.0	1500	1290	0	0.82	0	69.1	57.5	35.8
8-9 PM	940	0.0	1500	940	0	0.58	0	69.6	60.9	41.9
9-10 PM	740	0.0	1500	740	0	0.56	0	69.8	61.3	42.6
10-11 PM	622	0.0	1500	622	0	0.55	0	70.0	61.6	43.0
11PM-MID	408	0.0	1500	408	0	0.52	0	70.2	62.1	43.8

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

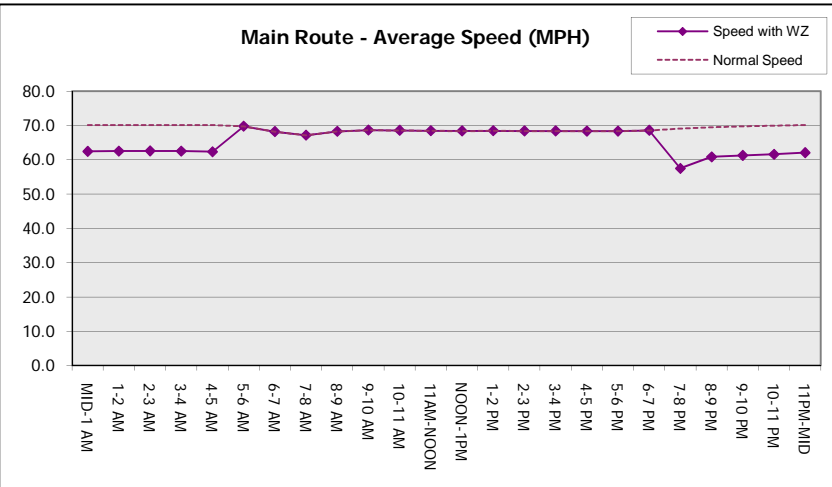
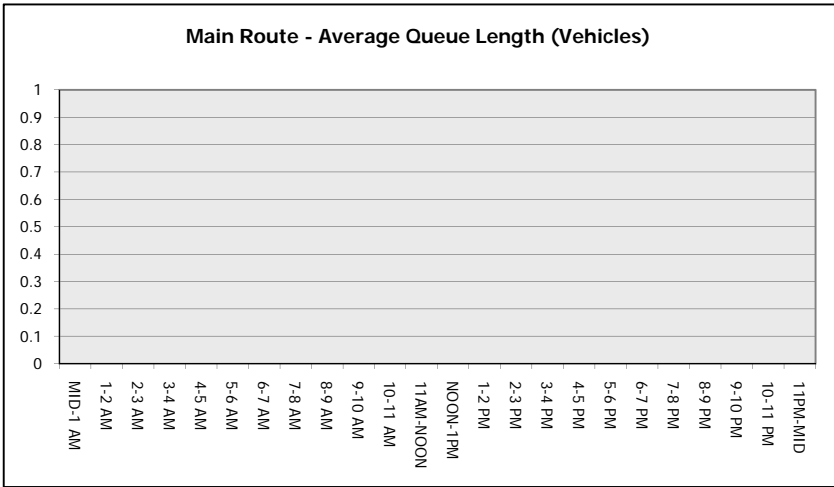
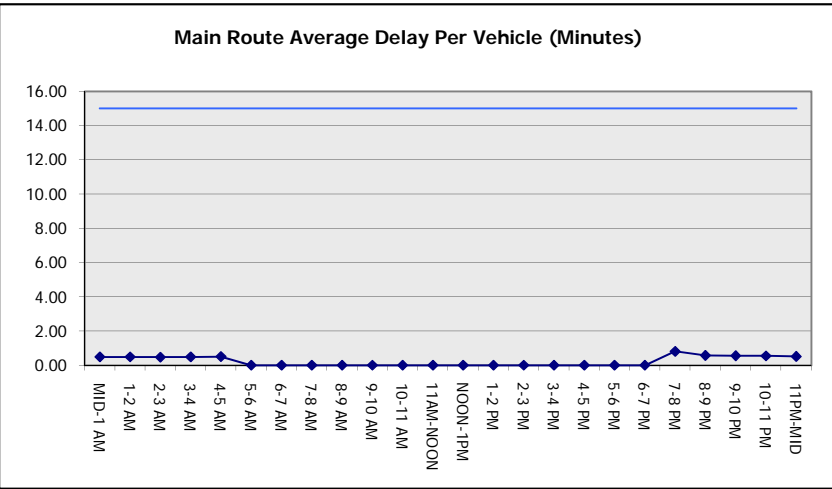
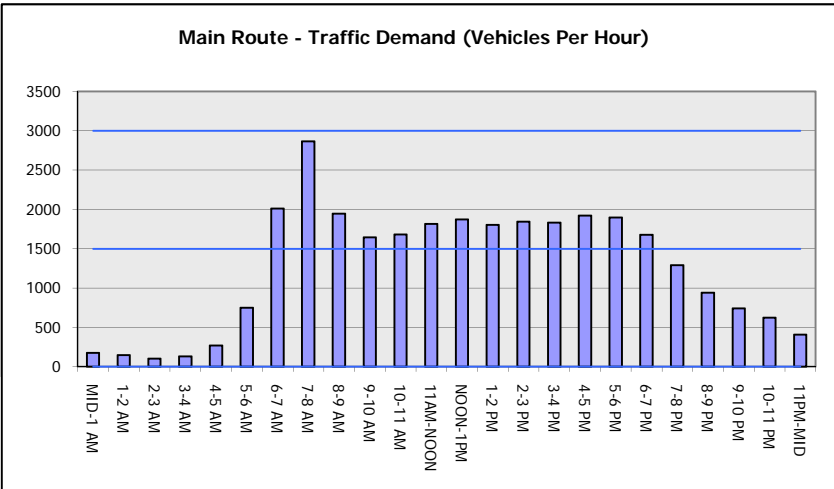
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0227
MAIN ROUTE WITH WORKS	0.0224
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$689
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	292	0.0	1500	292	0	0.51	0	70.2	62.3	44.3
1-2 AM	194	0.0	1500	194	0	0.50	0	70.2	62.5	44.7
2-3 AM	162	0.0	1500	162	0	0.49	0	70.2	62.5	44.8
3-4 AM	118	0.0	1500	118	0	0.49	0	70.2	62.6	45.0
4-5 AM	162	0.0	1500	162	0	0.49	0	70.2	62.5	44.8
5-6 AM	333	0.0	OFF	333	0	0.00	0	70.2	70.2	70.2
6-7 AM	757	0.0	OFF	757	0	0.00	0	69.8	69.8	69.8
7-8 AM	1107	0.0	OFF	1107	0	0.00	0	69.4	69.4	69.4
8-9 AM	1023	0.0	OFF	1023	0	0.00	0	69.5	69.5	69.5
9-10 AM	1127	0.0	OFF	1127	0	0.00	0	69.3	69.3	69.3
10-11 AM	1335	0.0	OFF	1335	0	0.00	0	69.1	69.1	69.1
11AM-NOON	1709	0.0	OFF	1709	0	0.00	0	68.6	68.6	68.6
NOON-1PM	1996	0.0	OFF	1996	0	0.00	0	68.2	68.2	68.2
1-2 PM	2109	0.0	OFF	2109	0	0.00	0	68.1	68.1	68.1
2-3 PM	2294	0.0	OFF	2294	0	0.00	0	67.9	67.9	67.9
3-4 PM	2805	0.0	OFF	2805	0	0.00	0	67.3	67.3	67.3
4-5 PM	3106	0.0	OFF	3106	0	0.00	0	66.9	66.9	66.9
5-6 PM	3000	0.0	OFF	3000	0	0.00	0	67.0	67.0	67.0
6-7 PM	2064	0.0	OFF	2064	0	0.00	0	68.2	68.2	68.2
7-8 PM	1608	0.0	1499	1608	0	3.77	73	68.7	35.8	30.8
8-9 PM	1436	0.0	1499	1436	0	4.34	86	68.9	33.4	30.9
9-10 PM	1256	0.0	1500	1256	0	0.97	5	69.2	55.9	36.6
10-11 PM	834	0.0	1500	834	0	0.57	0	69.7	61.1	42.3
11PM-MID	643	0.0	1500	643	0	0.55	0	69.9	61.5	43.0

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0235
MAIN ROUTE WITH WORKS	0.0231
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$3,424
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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