

USH 151: IH 39 TO STH 19 (DANE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE SEGMENT)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	182	0.0	OFF	182	0	0.00	0	70.2	70.2	70.2	
1-2 AM	118	0.0	OFF	118	0	0.00	0	70.2	70.2	70.2	
2-3 AM	121	0.0	OFF	121	0	0.00	0	70.2	70.2	70.2	
3-4 AM	80	0.0	OFF	80	0	0.00	0	70.2	70.2	70.2	
4-5 AM	101	0.0	OFF	101	0	0.00	0	70.2	70.2	70.2	
5-6 AM	142	0.0	OFF	142	0	0.00	0	70.2	70.2	70.2	
6-7 AM	267	0.0	OFF	267	0	0.00	0	70.2	70.2	70.2	
7-8 AM	389	0.0	OFF	389	0	0.00	0	70.2	70.2	70.2	
8-9 AM	682	0.0	OFF	682	0	0.00	0	69.9	69.9	69.9	
9-10 AM	987	0.0	1500	987	0	0.59	0	69.5	60.7	41.7	
10-11 AM	1294	0.0	1499	1294	0	0.83	0	69.1	57.4	35.8	
11AM-NOON	1668	0.0	1499	1668	0	3.40	69	68.7	37.6	30.8	
NOON-1PM	1766	0.0	1500	1766	0	12.14+	301	68.6	17.3	30.8	
1-2 PM	1649	0.0	1499	1468	181	16.23+	396	68.7	13.8	30.8	
2-3 PM	1596	0.0	1500	1500	96	16.37+	400	68.7	13.8	30.8	
3-4 PM	1524	0.0	1500	1498	26	16.37+	399	68.9	13.8	30.8	
4-5 PM	1473	0.0	1499	1471	1	16.10+	392	68.9	14.0	30.8	
5-6 PM	1287	0.0	1499	1287	0	11.28	275	69.1	18.3	30.9	
6-7 PM	1130	0.0	1499	1130	0	1.78	40	69.3	48.2	38.2	
7-8 PM	816	0.0	OFF	816	0	0.00	0	69.7	69.7	69.7	
8-9 PM	715	0.0	OFF	715	0	0.00	0	69.9	69.9	69.9	
9-10 PM	556	0.0	OFF	556	0	0.00	0	70.0	70.0	70.0	
10-11 PM	388	0.0	OFF	388	0	0.00	0	70.2	70.2	70.2	
11PM-MID	188	0.0	OFF	188	0	0.00	0	70.2	70.2	70.2	

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- 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

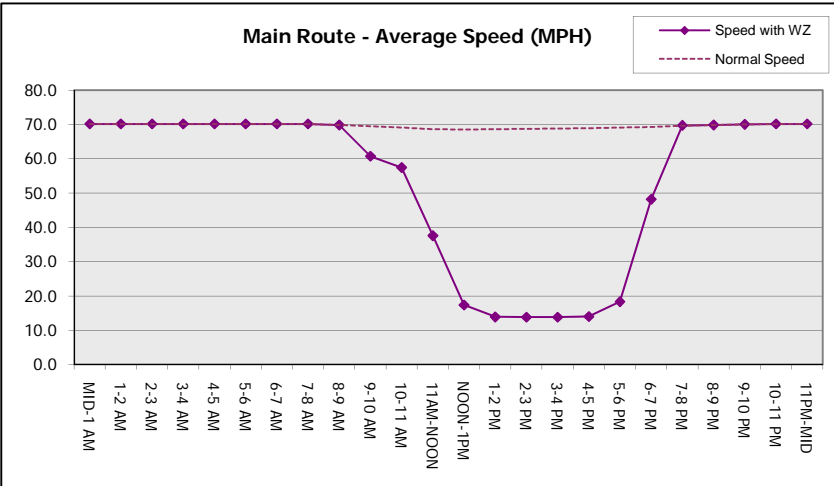
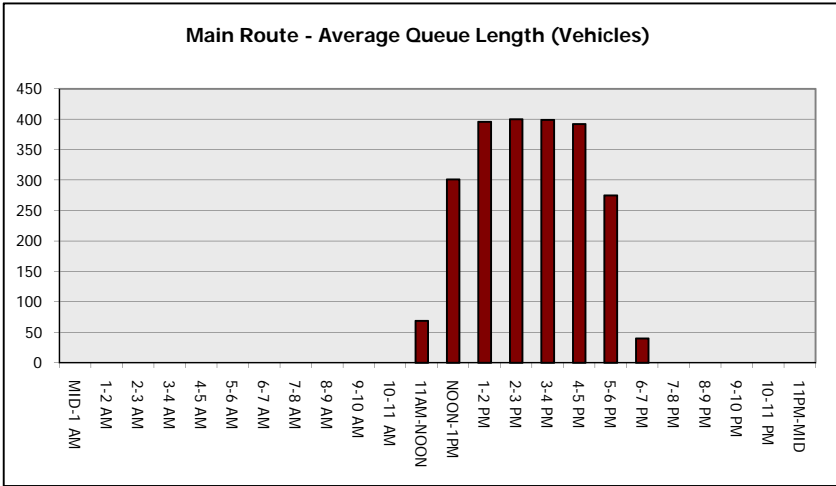
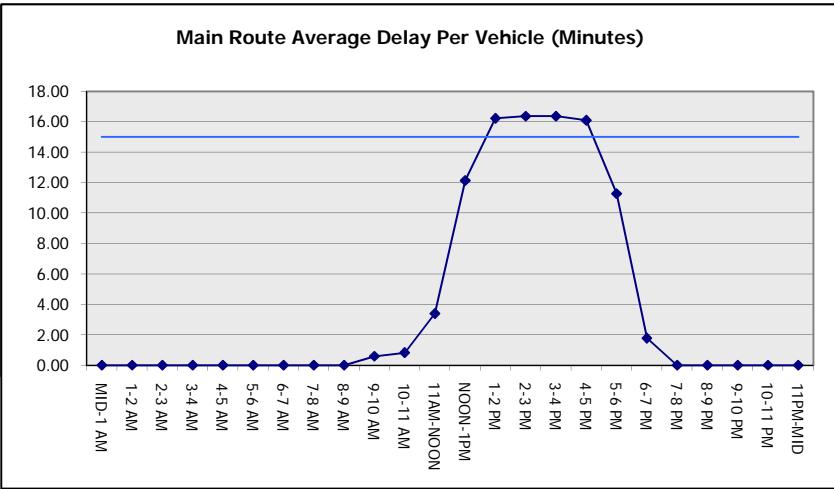
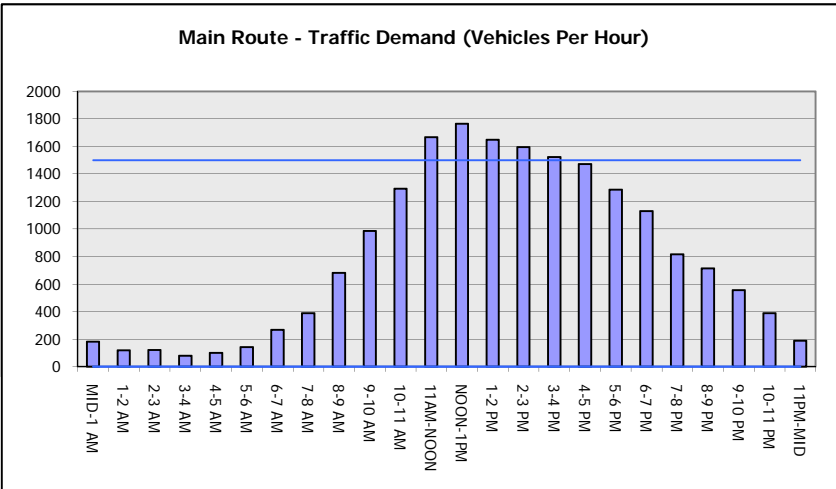
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0143
MAIN ROUTE WITH WORKS	0.0131
'DIVERSION'	0.0005
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$40,953
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	359	0.0	OFF	359	0	0.00	0	70.2	70.2	70.2
1-2 AM	224	0.0	OFF	224	0	0.00	0	70.2	70.2	70.2
2-3 AM	187	0.0	OFF	187	0	0.00	0	70.2	70.2	70.2
3-4 AM	115	0.0	OFF	115	0	0.00	0	70.2	70.2	70.2
4-5 AM	80	0.0	OFF	80	0	0.00	0	70.2	70.2	70.2
5-6 AM	71	0.0	OFF	71	0	0.00	0	70.2	70.2	70.2
6-7 AM	158	0.0	OFF	158	0	0.00	0	70.2	70.2	70.2
7-8 AM	268	0.0	OFF	268	0	0.00	0	70.2	70.2	70.2
8-9 AM	411	0.0	OFF	411	0	0.00	0	70.2	70.2	70.2
9-10 AM	694	0.0	1500	694	0	0.55	0	69.9	61.4	42.8
10-11 AM	996	0.0	1500	996	0	0.59	0	69.5	60.7	41.7
11AM-NOON	1269	0.0	1499	1269	0	0.80	0	69.2	57.9	36.5
NOON-1PM	1534	0.0	1499	1534	0	1.42	9	68.8	51.1	30.9
1-2 PM	1586	0.0	1499	1586	0	3.88	75	68.7	35.3	30.8
2-3 PM	1683	0.0	1500	1683	0	8.82	209	68.6	21.8	30.8
3-4 PM	1746	0.0	1500	1616	130	15.62+	382	68.6	14.3	30.8
4-5 PM	1792	0.0	1500	1500	292	16.36+	400	68.5	13.8	30.8
5-6 PM	1586	0.0	1499	1478	108	16.28+	397	68.7	13.8	30.8
6-7 PM	1380	0.0	1499	1380	0	14.66+	357	69.0	15.0	30.8
7-8 PM	1033	0.0	OFF	1033	0	0.10	7	69.4	67.8	67.8
8-9 PM	834	0.0	OFF	834	0	0.00	0	69.7	69.7	69.7
9-10 PM	603	0.0	OFF	603	0	0.00	0	70.0	70.0	70.0
10-11 PM	414	0.0	OFF	414	0	0.00	0	70.2	70.2	70.2
11PM-MID	355	0.0	OFF	355	0	0.00	0	70.2	70.2	70.2

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- 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	0.0145
MAIN ROUTE WITH WORKS	0.0132
'DIVERSION'	0.0009

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$35,670
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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