

USH 41: IH 43 TO STH 29 (BROWN COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	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	186	0.0	1500	186	0	0.44	0	66.0	53.2	44.7
1-2 AM	114	0.0	1500	114	0	0.43	0	66.2	53.4	45.0
2-3 AM	111	0.0	1500	111	0	0.43	0	66.2	53.4	45.0
3-4 AM	169	0.0	1500	169	0	0.44	0	66.1	53.2	44.8
4-5 AM	484	0.0	1500	484	0	0.47	0	65.5	52.1	43.6
5-6 AM	1261	0.0	OFF	1261	0	0.00	0	64.0	64.0	64.0
6-7 AM	2341	0.0	OFF	2341	0	0.00	0	62.0	62.0	62.0
7-8 AM	2902	0.0	OFF	2902	0	0.00	0	56.8	56.8	56.8
8-9 AM	1999	0.0	OFF	1999	0	0.00	0	62.7	62.7	62.7
9-10 AM	1938	0.0	OFF	1938	0	0.00	0	62.8	62.8	62.8
10-11 AM	2049	0.0	OFF	2049	0	0.00	0	62.6	62.6	62.6
11AM-NOON	2153	0.0	OFF	2153	0	0.00	0	62.3	62.3	62.3
NOON-1PM	2235	0.0	OFF	2235	0	0.00	0	62.2	62.2	62.2
1-2 PM	2274	0.0	OFF	2274	0	0.00	0	62.2	62.2	62.2
2-3 PM	2299	0.0	OFF	2299	0	0.00	0	62.1	62.1	62.1
3-4 PM	2352	0.0	OFF	2352	0	0.00	0	62.0	62.0	62.0
4-5 PM	2375	0.0	OFF	2375	0	0.00	0	62.0	62.0	62.0
5-6 PM	2230	0.0	OFF	2230	0	0.00	0	62.2	62.2	62.2
6-7 PM	1740	0.0	OFF	1740	0	0.00	0	63.2	63.2	63.2
7-8 PM	1171	0.0	1500	1171	0	0.60	0	64.2	48.6	39.4
8-9 PM	898	0.0	1500	898	0	0.51	0	64.7	50.8	42.0
9-10 PM	747	0.0	1500	747	0	0.49	0	65.0	51.2	42.6
10-11 PM	616	0.0	1500	616	0	0.48	0	65.3	51.7	43.1
11PM-MID	426	0.0	1500	426	0	0.46	0	65.6	52.4	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

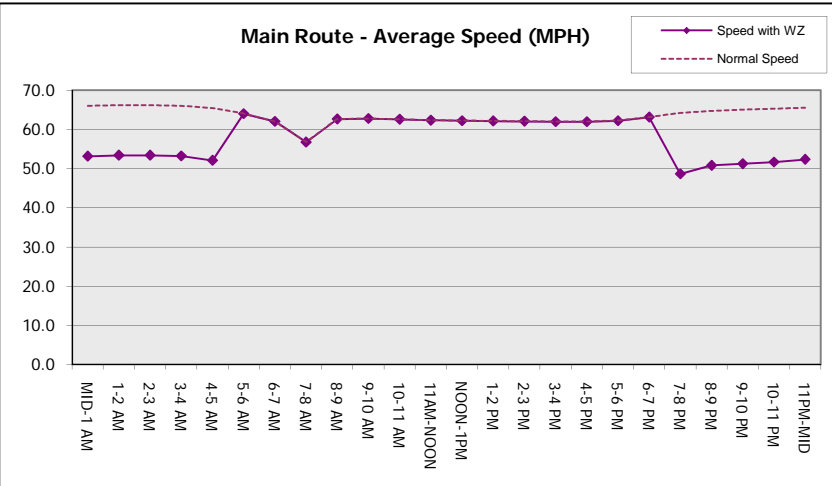
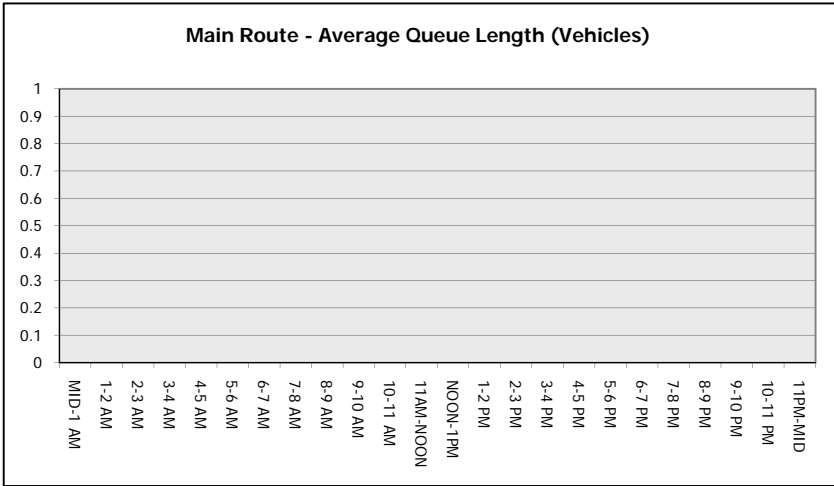
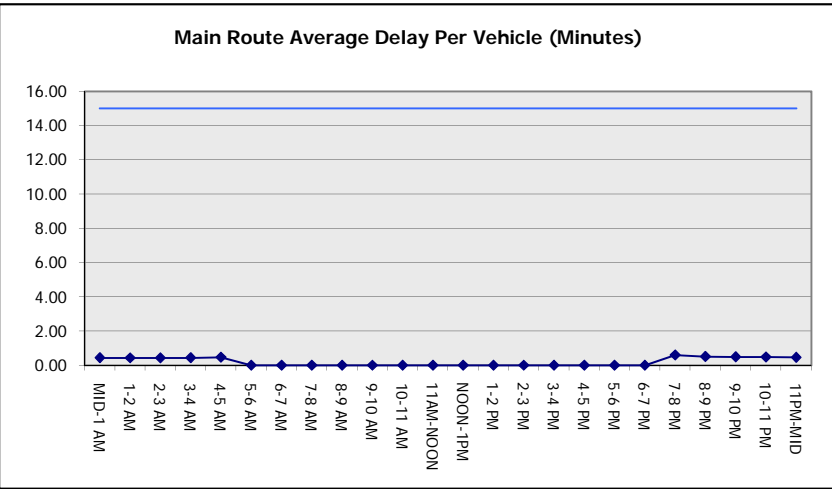
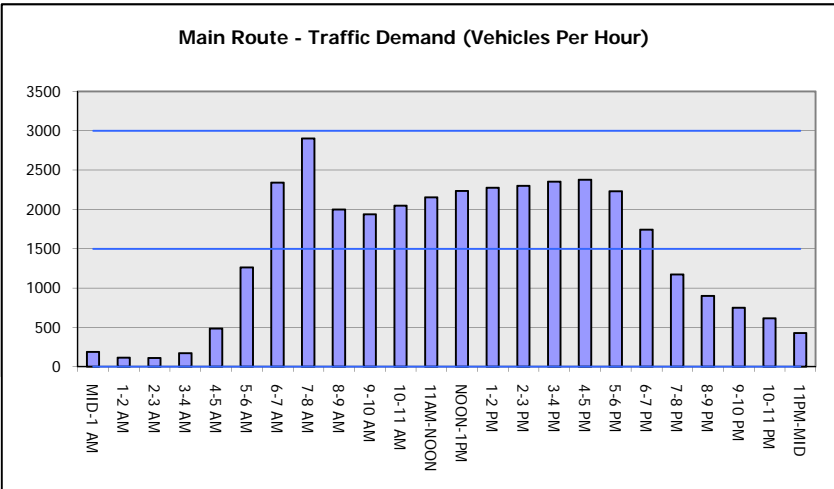
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0112
MAIN ROUTE WITH WORKS	0.0108
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$634
CONGESTED HOURS PER DAY*	0

*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	310	0.0	1500	310	0	0.45	0	65.8	52.7	44.2
1-2 AM	190	0.0	1500	190	0	0.44	0	66.0	53.2	44.7
2-3 AM	160	0.0	1500	160	0	0.44	0	66.1	53.2	44.8
3-4 AM	159	0.0	1500	159	0	0.44	0	66.1	53.2	44.8
4-5 AM	236	0.0	1500	236	0	0.45	0	66.0	53.0	44.5
5-6 AM	620	0.0	OFF	620	0	0.00	0	65.2	65.2	65.2
6-7 AM	1197	0.0	OFF	1197	0	0.00	0	64.1	64.1	64.1
7-8 AM	1390	0.0	OFF	1390	0	0.00	0	63.8	63.8	63.8
8-9 AM	1375	0.0	OFF	1375	0	0.00	0	63.8	63.8	63.8
9-10 AM	1627	0.0	OFF	1627	0	0.00	0	63.3	63.3	63.3
10-11 AM	1943	0.0	OFF	1943	0	0.00	0	62.8	62.8	62.8
11AM-NOON	2206	0.0	OFF	2206	0	0.00	0	62.3	62.3	62.3
NOON-1PM	2387	0.0	OFF	2387	0	0.00	0	61.9	61.9	61.9
1-2 PM	2471	0.0	OFF	2471	0	0.00	0	61.2	61.2	61.2
2-3 PM	2942	0.0	OFF	2942	0	0.00	0	56.4	56.4	56.4
3-4 PM	3368	0.0	OFF	3368	0	0.00	0	52.0	52.0	52.0
4-5 PM	3683	0.0	OFF	3683	0	0.00	0	48.7	48.7	48.7
5-6 PM	3317	0.0	OFF	3317	0	0.00	0	52.5	52.5	52.5
6-7 PM	2470	0.0	OFF	2470	0	0.00	0	61.2	61.2	61.2
7-8 PM	1765	0.0	1499	1765	0	6.45	162	63.1	15.0	30.8
8-9 PM	1500	0.0	1499	1500	0	11.51	283	63.6	10.4	30.8
9-10 PM	1191	0.0	1499	1191	0	3.99	130	64.1	21.0	34.6
10-11 PM	923	0.0	1500	923	0	0.51	0	64.6	50.7	41.9
11PM-MID	644	0.0	1500	644	0	0.48	0	65.2	51.6	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	0.0121
MAIN ROUTE WITH WORKS	0.0117
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$8,791
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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