

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

MON-THUR 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	147	0.0	1500	147	0	0.44	0	66.1	53.3	44.9
1-2 AM	103	0.0	1500	103	0	0.43	0	66.2	53.5	45.1
2-3 AM	127	0.0	1500	127	0	0.43	0	66.1	53.3	45.0
3-4 AM	161	0.0	1500	161	0	0.44	0	66.1	53.2	44.8
4-5 AM	538	0.0	1500	538	0	0.47	0	65.4	51.9	43.3
5-6 AM	1481	0.0	OFF	1481	0	0.00	0	63.7	63.7	63.7
6-7 AM	2623	0.0	OFF	2623	0	0.00	0	59.6	59.6	59.6
7-8 AM	3169	0.0	OFF	3169	0	0.00	0	54.0	54.0	54.0
8-9 AM	2102	0.0	OFF	2102	0	0.00	0	62.5	62.5	62.5
9-10 AM	1800	0.0	OFF	1800	0	0.00	0	63.0	63.0	63.0
10-11 AM	1882	0.0	OFF	1882	0	0.00	0	62.9	62.9	62.9
11AM-NOON	1955	0.0	OFF	1955	0	0.00	0	62.7	62.7	62.7
NOON-1PM	1999	0.0	OFF	1999	0	0.00	0	62.7	62.7	62.7
1-2 PM	2033	0.0	OFF	2033	0	0.00	0	62.6	62.6	62.6
2-3 PM	2129	0.0	OFF	2129	0	0.00	0	62.4	62.4	62.4
3-4 PM	2292	0.0	OFF	2292	0	0.00	0	62.1	62.1	62.1
4-5 PM	2345	0.0	OFF	2345	0	0.00	0	62.0	62.0	62.0
5-6 PM	2204	0.0	OFF	2204	0	0.00	0	62.3	62.3	62.3
6-7 PM	1557	0.0	OFF	1557	0	0.00	0	63.5	63.5	63.5
7-8 PM	1091	0.0	1500	1091	0	0.53	0	64.3	50.2	41.4
8-9 PM	928	0.0	1500	928	0	0.51	0	64.6	50.7	41.9
9-10 PM	680	0.0	1500	680	0	0.49	0	65.1	51.5	42.8
10-11 PM	457	0.0	1500	457	0	0.47	0	65.5	52.2	43.7
11PM-MID	251	0.0	1500	251	0	0.45	0	65.9	52.9	44.5

"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

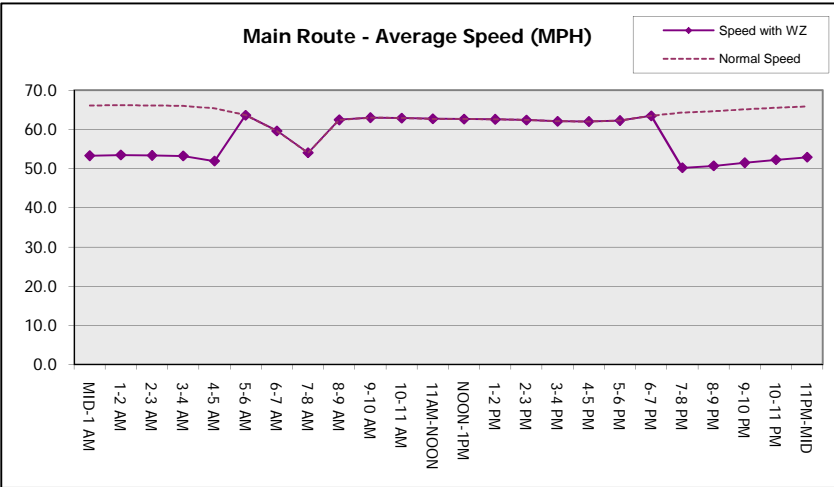
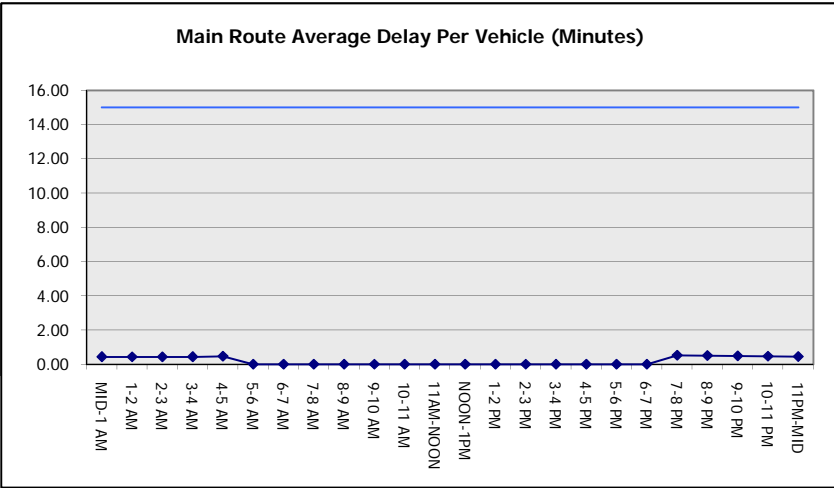
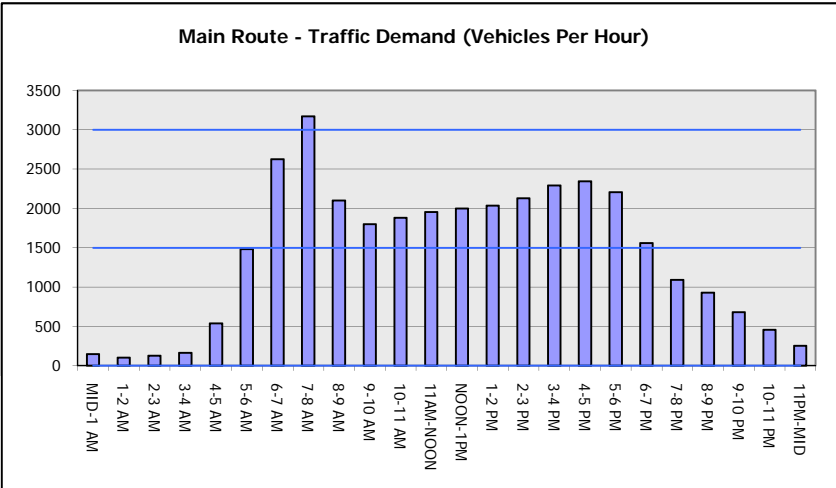
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0108
MAIN ROUTE WITH WORKS	0.0105
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$470
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	232	0.0	1500	232	0	0.44	0	66.0	53.0	44.5
1-2 AM	144	0.0	1500	144	0	0.44	0	66.1	53.3	44.9
2-3 AM	137	0.0	1500	137	0	0.44	0	66.1	53.3	45.0
3-4 AM	159	0.0	1500	159	0	0.44	0	66.1	53.2	44.8
4-5 AM	279	0.0	1500	279	0	0.45	0	65.9	52.8	44.3
5-6 AM	669	0.0	OFF	669	0	0.00	0	65.1	65.1	65.1
6-7 AM	1254	0.0	OFF	1254	0	0.00	0	64.0	64.0	64.0
7-8 AM	1507	0.0	OFF	1507	0	0.00	0	63.6	63.6	63.6
8-9 AM	1395	0.0	OFF	1395	0	0.00	0	63.8	63.8	63.8
9-10 AM	1418	0.0	OFF	1418	0	0.00	0	63.7	63.7	63.7
10-11 AM	1585	0.0	OFF	1585	0	0.00	0	63.4	63.4	63.4
11AM-NOON	1741	0.0	OFF	1741	0	0.00	0	63.2	63.2	63.2
NOON-1PM	1886	0.0	OFF	1886	0	0.00	0	62.8	62.8	62.8
1-2 PM	1977	0.0	OFF	1977	0	0.00	0	62.7	62.7	62.7
2-3 PM	2267	0.0	OFF	2267	0	0.00	0	62.2	62.2	62.2
3-4 PM	2807	0.0	OFF	2807	0	0.00	0	57.8	57.8	57.8
4-5 PM	3505	0.0	OFF	3505	0	0.00	0	50.6	50.6	50.6
5-6 PM	3228	0.0	OFF	3228	0	0.00	0	53.4	53.4	53.4
6-7 PM	2079	0.0	OFF	2079	0	0.00	0	62.5	62.5	62.5
7-8 PM	1516	0.0	1499	1516	0	2.19	32	63.6	29.4	31.1
8-9 PM	1311	0.0	1500	1311	0	0.81	1	64.0	44.6	35.2
9-10 PM	1012	0.0	1500	1012	0	0.52	0	64.5	50.4	41.6
10-11 PM	691	0.0	1500	691	0	0.49	0	65.1	51.4	42.8
11PM-MID	456	0.0	1500	456	0	0.47	0	65.5	52.2	43.7

"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	0.0106
MAIN ROUTE WITH WORKS	0.0102
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,257
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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