

IH 43: STH 54/57 TO STH 172 (BROWN COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	220	0.0	1500	220	0	0.44	0	66.0	60.2	44.6
1-2 AM	129	0.0	1500	129	0	0.43	0	66.1	60.5	45.0
2-3 AM	127	0.0	1500	127	0	0.43	0	66.1	60.5	45.0
3-4 AM	83	0.0	1500	83	0	0.43	0	66.3	60.6	45.1
4-5 AM	112	0.0	1500	112	0	0.43	0	66.2	60.5	45.0
5-6 AM	162	0.0	1500	162	0	0.44	0	66.1	60.4	44.8
6-7 AM	273	0.0	1500	273	0	0.45	0	65.9	60.1	44.4
7-8 AM	468	0.0	1500	468	0	0.47	0	65.5	59.6	43.7
8-9 AM	678	0.0	1500	678	0	0.49	0	65.1	59.0	42.8
9-10 AM	1082	0.0	OFF	1082	0	0.00	0	64.4	64.4	64.4
10-11 AM	1545	0.0	OFF	1545	0	0.00	0	63.5	63.5	63.5
11AM-NOON	1848	0.0	OFF	1848	0	0.00	0	63.0	63.0	63.0
NOON-1PM	2099	0.0	OFF	2099	0	0.00	0	62.5	62.5	62.5
1-2 PM	2087	0.0	OFF	2087	0	0.00	0	62.5	62.5	62.5
2-3 PM	2003	0.0	OFF	2003	0	0.00	0	62.7	62.7	62.7
3-4 PM	2095	0.0	OFF	2095	0	0.00	0	62.5	62.5	62.5
4-5 PM	1913	0.0	OFF	1913	0	0.00	0	62.8	62.8	62.8
5-6 PM	1759	0.0	OFF	1759	0	0.00	0	63.1	63.1	63.1
6-7 PM	1509	0.0	OFF	1509	0	0.00	0	63.6	63.6	63.6
7-8 PM	1204	0.0	1500	1204	0	0.64	0	64.1	56.5	38.3
8-9 PM	947	0.0	1500	947	0	0.51	0	64.6	58.3	41.9
9-10 PM	551	0.0	1500	551	0	0.48	0	65.3	59.3	43.3
10-11 PM	341	0.0	1500	341	0	0.46	0	65.8	59.9	44.1
11PM-MID	187	0.0	1500	187	0	0.44	0	66.0	60.3	44.7

"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

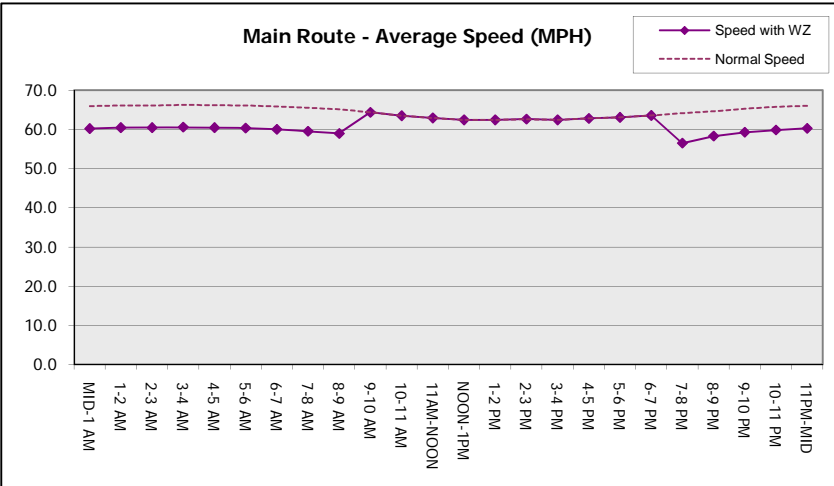
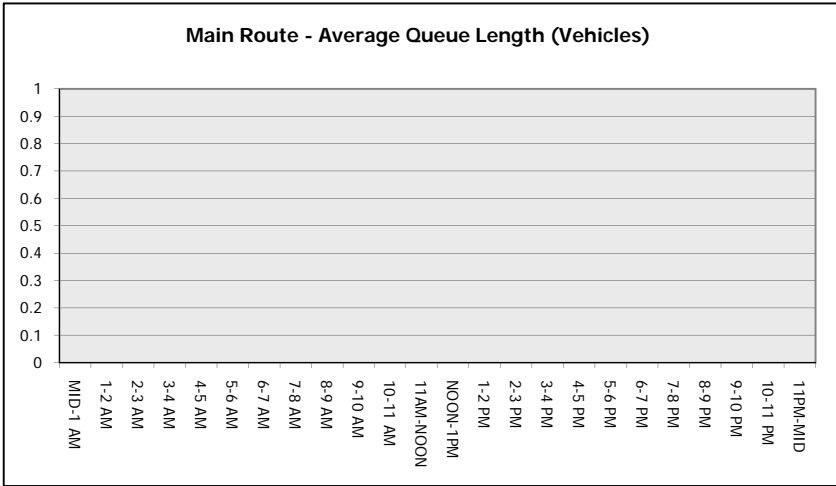
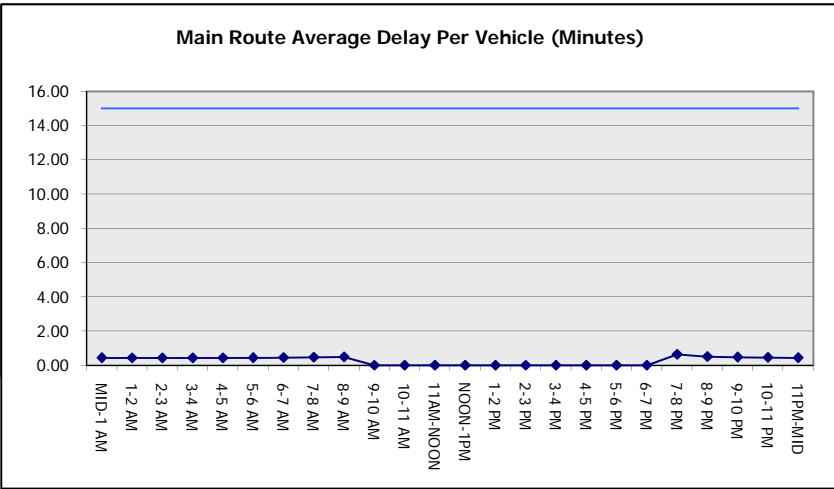
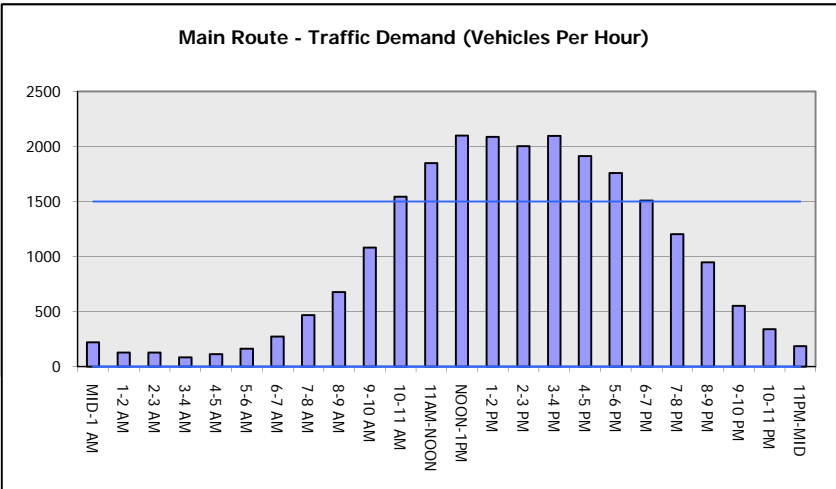
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0190
MAIN ROUTE WITH WORKS	0.0187
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$666
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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AUGUST
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Construction Season

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	261	0.0	1500	261	0	0.45	0	65.9	60.1	44.5
1-2 AM	164	0.0	1500	164	0	0.44	0	66.1	60.4	44.8
2-3 AM	146	0.0	1500	146	0	0.44	0	66.1	60.4	44.9
3-4 AM	82	0.0	1500	82	0	0.43	0	66.3	60.6	45.1
4-5 AM	82	0.0	1500	82	0	0.43	0	66.3	60.6	45.1
5-6 AM	127	0.0	1500	127	0	0.43	0	66.1	60.5	45.0
6-7 AM	199	0.0	1500	199	0	0.44	0	66.0	60.3	44.7
7-8 AM	255	0.0	1500	255	0	0.45	0	65.9	60.1	44.5
8-9 AM	419	0.0	1500	419	0	0.46	0	65.6	59.7	43.8
9-10 AM	671	0.0	OFF	671	0	0.00	0	65.1	65.1	65.1
10-11 AM	999	0.0	OFF	999	0	0.00	0	64.5	64.5	64.5
11AM-NOON	1228	0.0	OFF	1228	0	0.00	0	64.1	64.1	64.1
NOON-1PM	1310	0.0	OFF	1310	0	0.00	0	64.0	64.0	64.0
1-2 PM	1314	0.0	OFF	1314	0	0.00	0	64.0	64.0	64.0
2-3 PM	1282	0.0	OFF	1282	0	0.00	0	64.0	64.0	64.0
3-4 PM	1272	0.0	OFF	1272	0	0.00	0	64.0	64.0	64.0
4-5 PM	1243	0.0	OFF	1243	0	0.00	0	64.1	64.1	64.1
5-6 PM	1129	0.0	OFF	1129	0	0.00	0	64.3	64.3	64.3
6-7 PM	1042	0.0	OFF	1042	0	0.00	0	64.5	64.5	64.5
7-8 PM	811	0.0	1500	811	0	0.50	0	64.9	58.6	42.4
8-9 PM	705	0.0	1500	705	0	0.49	0	65.1	58.9	42.7
9-10 PM	534	0.0	1500	534	0	0.47	0	65.4	59.4	43.4
10-11 PM	388	0.0	1500	388	0	0.46	0	65.6	59.7	44.0
11PM-MID	265	0.0	1500	265	0	0.45	0	65.9	60.1	44.4

"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	0.0129
MAIN ROUTE WITH WORKS	0.0126
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$494
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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