

STH 172: STH 57 TO IH 43 (BROWN COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY WESTBOUND 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	162	0.0	OFF	162	0	0.00	0	66.1	66.1	66.1	
1-2 AM	109	0.0	OFF	109	0	0.00	0	66.2	66.2	66.2	
2-3 AM	105	0.0	OFF	105	0	0.00	0	66.2	66.2	66.2	
3-4 AM	140	0.0	OFF	140	0	0.00	0	66.1	66.1	66.1	
4-5 AM	313	0.0	OFF	313	0	0.00	0	65.8	65.8	65.8	
5-6 AM	1006	0.0	OFF	1006	0	0.00	0	64.5	64.5	64.5	
6-7 AM	2081	0.0	OFF	2081	0	0.00	0	62.5	62.5	62.5	
7-8 AM	2823	0.0	OFF	2823	0	0.00	0	57.6	57.6	57.6	
8-9 AM	1914	0.0	OFF	1914	0	0.00	0	62.8	62.8	62.8	
9-10 AM	1688	0.0	OFF	1688	0	0.00	0	63.2	63.2	63.2	
10-11 AM	1919	0.0	OFF	1499	0	7.06	199	62.8	20.2	30.8	
11AM-NOON	1993	0.0	OFF	1499	493	15.81+	400	62.7	10.9	30.8	
NOON-1PM	2190	0.0	OFF	1500	690	15.79+	400	62.3	10.9	30.8	
1-2 PM	2180	0.0	OFF	1500	680	15.79+	400	62.3	10.9	30.8	
2-3 PM	2165	0.0	OFF	1500	665	15.79+	400	62.3	10.9	30.8	
3-4 PM	2251	0.0	OFF	2251	0	0.93	50	62.2	48.8	48.8	
4-5 PM	2339	0.0	OFF	2339	0	0.00	0	62.0	62.0	62.0	
5-6 PM	2360	0.0	OFF	2360	0	0.00	0	62.0	62.0	62.0	
6-7 PM	1859	0.0	OFF	1859	0	0.00	0	62.9	62.9	62.9	
7-8 PM	1282	0.0	OFF	1282	0	0.00	0	64.0	64.0	64.0	
8-9 PM	978	0.0	OFF	978	0	0.00	0	64.6	64.6	64.6	
9-10 PM	760	0.0	OFF	760	0	0.00	0	65.0	65.0	65.0	
10-11 PM	559	0.0	OFF	559	0	0.00	0	65.3	65.3	65.3	
11PM-MID	422	0.0	OFF	422	0	0.00	0	65.6	65.6	65.6	

"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

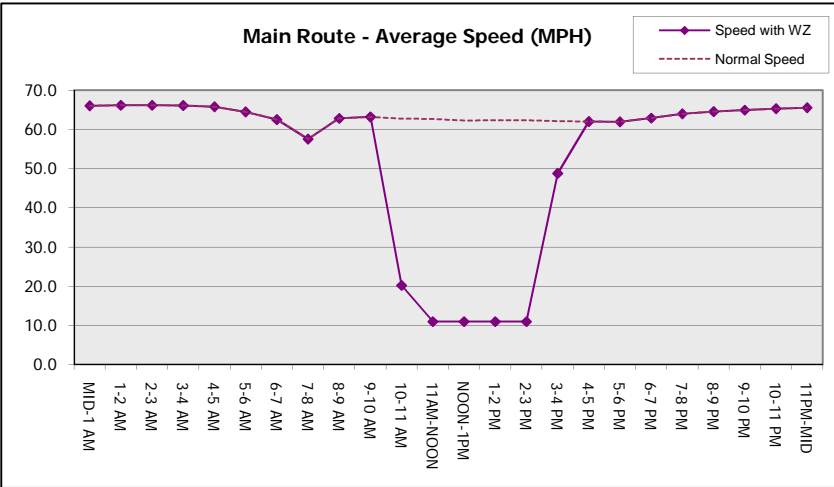
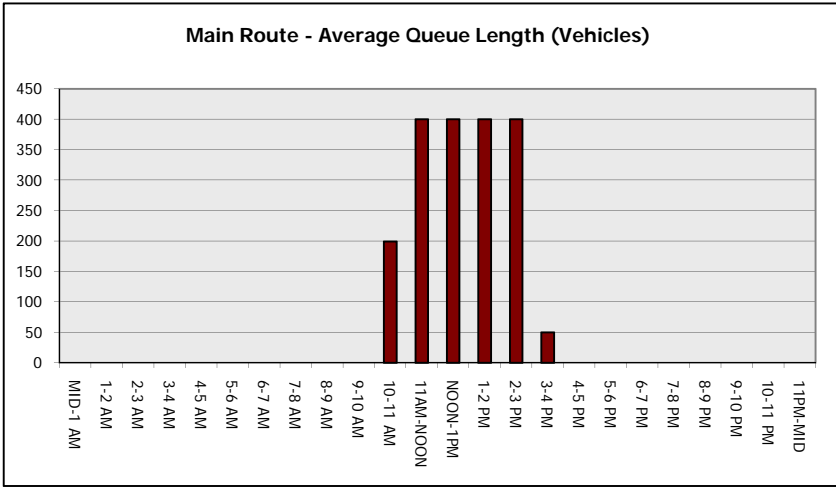
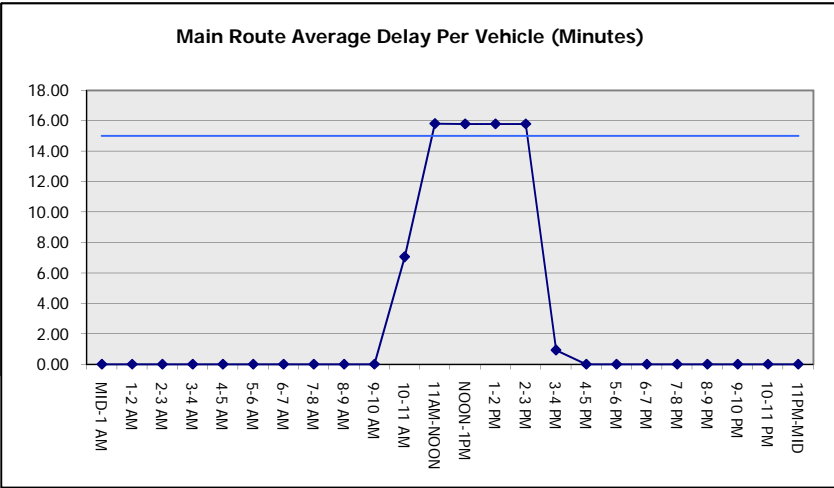
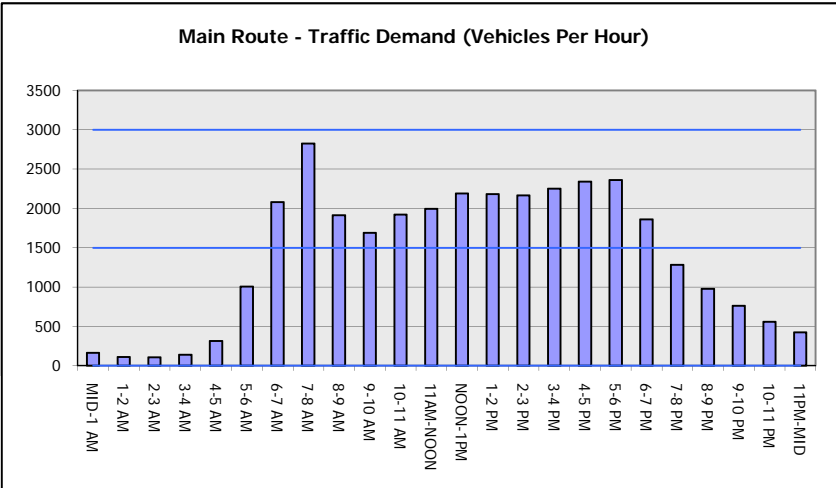
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0187
MAIN ROUTE WITH WORKS	0.0168
'DIVERSION'	0.0033
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$33,041
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



STH 172: STH 57 TO IH 43 (BROWN COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY EASTBOUND 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	237	0.0	OFF	237	0	0.00	0	66.0	66.0	66.0
1-2 AM	166	0.0	OFF	166	0	0.00	0	66.1	66.1	66.1
2-3 AM	184	0.0	OFF	184	0	0.00	0	66.0	66.0	66.0
3-4 AM	143	0.0	OFF	143	0	0.00	0	66.1	66.1	66.1
4-5 AM	217	0.0	OFF	217	0	0.00	0	66.0	66.0	66.0
5-6 AM	478	0.0	OFF	478	0	0.00	0	65.5	65.5	65.5
6-7 AM	1134	0.0	OFF	1134	0	0.00	0	64.3	64.3	64.3
7-8 AM	1602	0.0	OFF	1602	0	0.00	0	63.4	63.4	63.4
8-9 AM	1492	0.0	OFF	1492	0	0.00	0	63.6	63.6	63.6
9-10 AM	1421	0.0	OFF	1421	0	0.00	0	63.7	63.7	63.7
10-11 AM	1700	0.0	1499	1700	0	3.77	87	63.2	29.6	30.8
11AM-NOON	1826	0.0	1500	1678	148	12.85+	329	63.0	13.0	30.8
NOON-1PM	2098	0.0	1499	1500	598	15.80+	400	62.5	10.9	30.8
1-2 PM	2170	0.0	1500	1500	670	15.79+	400	62.3	10.9	30.8
2-3 PM	2462	0.0	1500	1500	962	15.73+	400	61.3	10.9	30.8
3-4 PM	2909	0.0	OFF	2909	0	1.25	65	56.7	42.4	42.4
4-5 PM	3167	0.0	OFF	3167	0	0.00	0	54.0	54.0	54.0
5-6 PM	2736	0.0	OFF	2736	0	0.00	0	58.5	58.5	58.5
6-7 PM	1854	0.0	OFF	1854	0	0.00	0	62.9	62.9	62.9
7-8 PM	1397	0.0	OFF	1397	0	0.00	0	63.8	63.8	63.8
8-9 PM	1194	0.0	OFF	1194	0	0.00	0	64.1	64.1	64.1
9-10 PM	1034	0.0	OFF	1034	0	0.00	0	64.5	64.5	64.5
10-11 PM	939	0.0	OFF	939	0	0.00	0	64.6	64.6	64.6
11PM-MID	624	0.0	OFF	624	0	0.00	0	65.2	65.2	65.2

"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	0.0185
MAIN ROUTE WITH WORKS	0.0166
'DIVERSION'	0.0031

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$30,692
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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FRIDAY EASTBOUND DIRECTION

