

STH 172: STH 57 TO IH 43 (BROWN COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	270	0.0	1500	270	0	0.45	0	65.9	57.8	44.4	
1-2 AM	145	0.0	1500	145	0	0.44	0	66.1	58.1	44.9	
2-3 AM	101	0.0	1500	101	0	0.43	0	66.2	58.2	45.1	
3-4 AM	92	0.0	1500	92	0	0.43	0	66.2	58.2	45.1	
4-5 AM	131	0.0	1500	131	0	0.44	0	66.1	58.2	45.0	
5-6 AM	209	0.0	1500	209	0	0.44	0	66.0	57.9	44.6	
6-7 AM	292	0.0	1500	292	0	0.45	0	65.8	57.7	44.3	
7-8 AM	461	0.0	1500	461	0	0.47	0	65.5	57.2	43.7	
8-9 AM	626	0.0	1500	626	0	0.48	0	65.2	56.7	43.0	
9-10 AM	1083	0.0	OFF	1083	0	0.00	0	64.4	64.4	64.4	
10-11 AM	1417	0.0	OFF	1417	0	0.00	0	63.7	63.7	63.7	
11AM-NOON	1493	0.0	OFF	1493	0	0.00	0	63.6	63.6	63.6	
NOON-1PM	1693	0.0	OFF	1693	0	0.00	0	63.2	63.2	63.2	
1-2 PM	1584	0.0	OFF	1584	0	0.00	0	63.4	63.4	63.4	
2-3 PM	1470	0.0	OFF	1470	0	0.00	0	63.7	63.7	63.7	
3-4 PM	1370	0.0	OFF	1370	0	0.00	0	63.8	63.8	63.8	
4-5 PM	1334	0.0	OFF	1334	0	0.00	0	63.9	63.9	63.9	
5-6 PM	1306	0.0	OFF	1306	0	0.00	0	64.0	64.0	64.0	
6-7 PM	1071	0.0	OFF	1071	0	0.00	0	64.4	64.4	64.4	
7-8 PM	746	0.0	1500	746	0	0.49	0	65.0	56.4	42.6	
8-9 PM	595	0.0	1500	595	0	0.48	0	65.3	56.8	43.2	
9-10 PM	440	0.0	1500	440	0	0.47	0	65.6	57.3	43.7	
10-11 PM	353	0.0	1500	353	0	0.46	0	65.7	57.5	44.1	
11PM-MID	125	0.0	1500	125	0	0.43	0	66.1	58.2	45.0	

"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

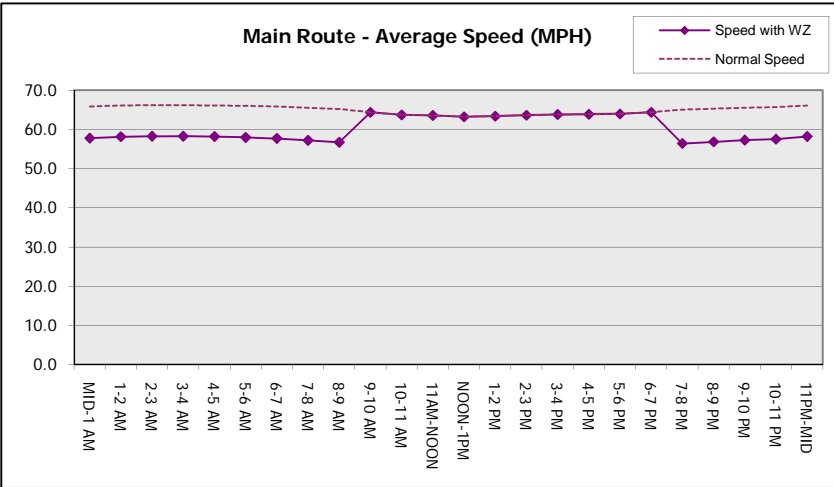
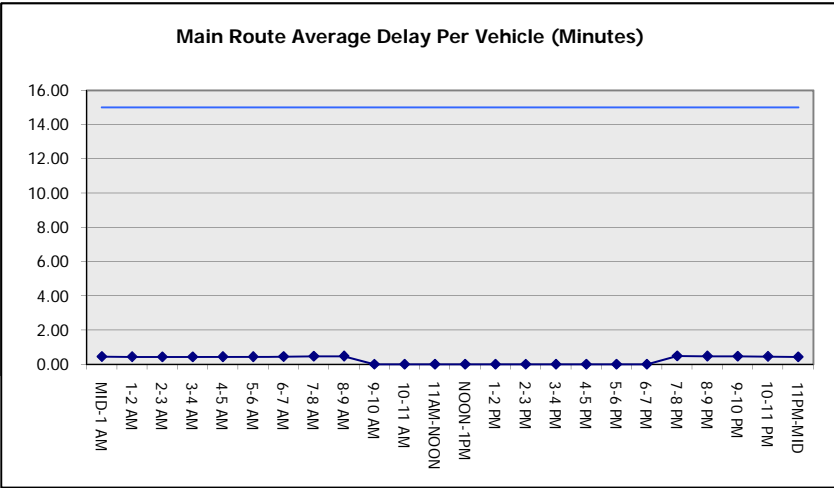
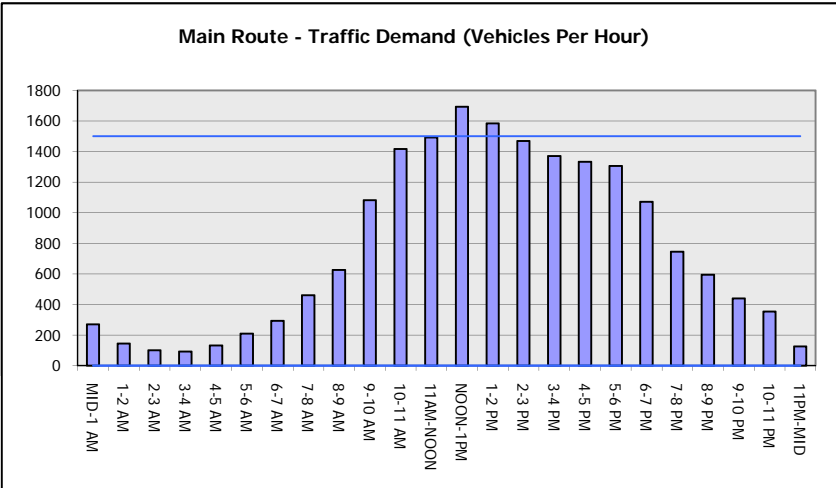
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0102
MAIN ROUTE WITH WORKS	0.0099
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$501
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	334	0.0	1500	334	0	0.45	0	65.8	57.6	44.2
1-2 AM	249	0.0	1500	249	0	0.45	0	66.0	57.8	44.5
2-3 AM	216	0.0	1500	216	0	0.44	0	66.0	57.9	44.6
3-4 AM	157	0.0	1500	157	0	0.44	0	66.1	58.1	44.8
4-5 AM	115	0.0	1500	115	0	0.43	0	66.2	58.2	45.0
5-6 AM	135	0.0	1500	135	0	0.44	0	66.1	58.1	45.0
6-7 AM	281	0.0	1500	281	0	0.45	0	65.9	57.7	44.3
7-8 AM	381	0.0	1500	381	0	0.46	0	65.7	57.4	44.0
8-9 AM	592	0.0	1500	592	0	0.48	0	65.3	56.8	43.2
9-10 AM	787	0.0	OFF	787	0	0.00	0	64.9	64.9	64.9
10-11 AM	1166	0.0	OFF	1166	0	0.00	0	64.2	64.2	64.2
11AM-NOON	1388	0.0	OFF	1388	0	0.00	0	63.8	63.8	63.8
NOON-1PM	1520	0.0	OFF	1520	0	0.00	0	63.5	63.5	63.5
1-2 PM	1624	0.0	OFF	1624	0	0.00	0	63.3	63.3	63.3
2-3 PM	1810	0.0	OFF	1810	0	0.00	0	63.0	63.0	63.0
3-4 PM	1793	0.0	OFF	1793	0	0.00	0	63.0	63.0	63.0
4-5 PM	1830	0.0	OFF	1830	0	0.00	0	63.0	63.0	63.0
5-6 PM	1544	0.0	OFF	1544	0	0.00	0	63.5	63.5	63.5
6-7 PM	1396	0.0	OFF	1396	0	0.00	0	63.8	63.8	63.8
7-8 PM	1013	0.0	1500	1013	0	0.52	0	64.5	55.6	41.6
8-9 PM	783	0.0	1500	783	0	0.50	0	64.9	56.3	42.5
9-10 PM	593	0.0	1500	593	0	0.48	0	65.3	56.8	43.2
10-11 PM	415	0.0	1500	415	0	0.46	0	65.6	57.3	43.8
11PM-MID	256	0.0	1500	256	0	0.45	0	65.9	57.8	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	0.0113
MAIN ROUTE WITH WORKS	0.0110
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$615
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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SUNDAY EASTBOUND DIRECTION

