

USH 41: CTH M TO IH 43 (BROWN COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	200	0.0	1500	200	0	0.44	0	66.0	54.0	44.7	
1-2 AM	119	0.0	1500	119	0	0.43	0	66.1	54.3	45.0	
2-3 AM	130	0.0	1500	130	0	0.44	0	66.1	54.3	45.0	
3-4 AM	102	0.0	1500	102	0	0.43	0	66.2	54.4	45.1	
4-5 AM	220	0.0	1500	220	0	0.44	0	66.0	54.0	44.6	
5-6 AM	453	0.0	1500	453	0	0.47	0	65.5	53.2	43.7	
6-7 AM	559	0.0	1500	559	0	0.48	0	65.3	52.8	43.3	
7-8 AM	811	0.0	1500	811	0	0.50	0	64.9	52.0	42.4	
8-9 AM	1114	0.0	OFF	1114	0	0.00	0	64.3	64.3	64.3	
9-10 AM	1469	0.0	OFF	1469	0	0.00	0	63.7	63.7	63.7	
10-11 AM	1854	0.0	OFF	1854	0	0.00	0	62.9	62.9	62.9	
11AM-NOON	1920	0.0	OFF	1920	0	0.00	0	62.8	62.8	62.8	
NOON-1PM	1898	0.0	OFF	1898	0	0.00	0	62.8	62.8	62.8	
1-2 PM	1823	0.0	OFF	1823	0	0.00	0	63.0	63.0	63.0	
2-3 PM	1854	0.0	OFF	1854	0	0.00	0	62.9	62.9	62.9	
3-4 PM	1721	0.0	OFF	1721	0	0.00	0	63.2	63.2	63.2	
4-5 PM	1705	0.0	OFF	1705	0	0.00	0	63.2	63.2	63.2	
5-6 PM	1592	0.0	OFF	1592	0	0.00	0	63.4	63.4	63.4	
6-7 PM	1103	0.0	1500	1103	0	0.53	0	64.3	51.1	41.3	
7-8 PM	881	0.0	1500	881	0	0.51	0	64.8	51.9	42.1	
8-9 PM	760	0.0	1500	760	0	0.50	0	65.0	52.2	42.5	
9-10 PM	681	0.0	1500	681	0	0.49	0	65.1	52.5	42.8	
10-11 PM	526	0.0	1500	526	0	0.47	0	65.4	53.0	43.4	
11PM-MID	298	0.0	1500	298	0	0.45	0	65.8	53.7	44.3	

"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

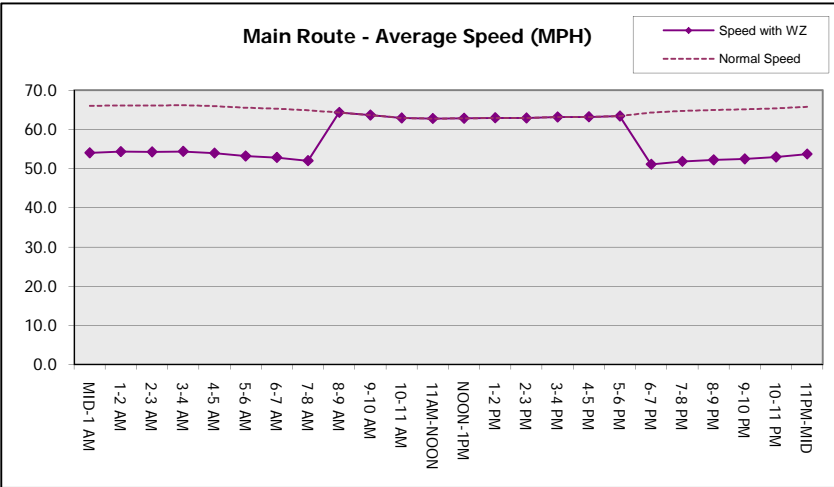
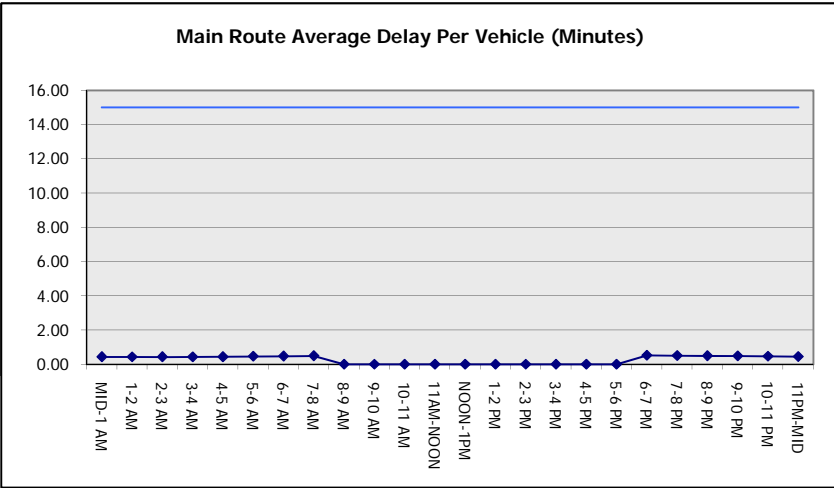
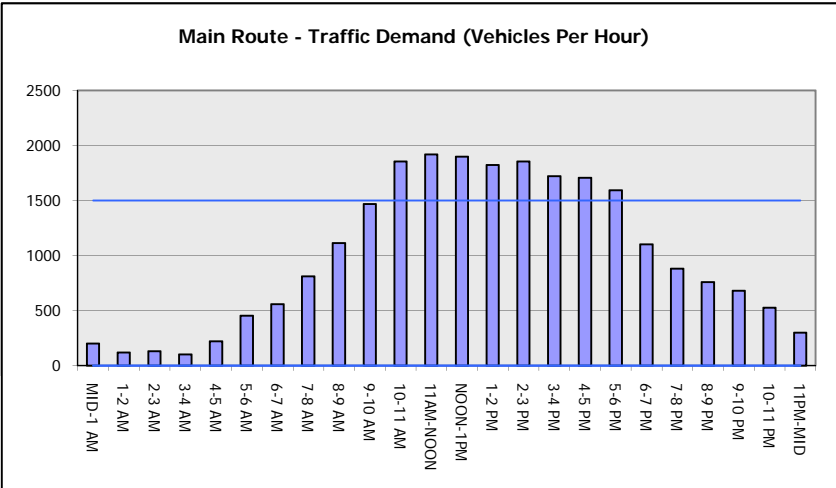
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0083
MAIN ROUTE WITH WORKS	0.0079
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$791
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	393	0.0	1500	393	0	0.46	0	65.6	53.4	43.9
1-2 AM	211	0.0	1500	211	0	0.44	0	66.0	54.0	44.6
2-3 AM	184	0.0	1500	184	0	0.44	0	66.0	54.1	44.8
3-4 AM	146	0.0	1500	146	0	0.44	0	66.1	54.2	44.9
4-5 AM	149	0.0	1500	149	0	0.44	0	66.1	54.2	44.9
5-6 AM	276	0.0	1500	276	0	0.45	0	65.9	53.8	44.4
6-7 AM	588	0.0	1500	588	0	0.48	0	65.3	52.8	43.2
7-8 AM	735	0.0	1500	735	0	0.49	0	65.0	52.3	42.6
8-9 AM	1164	0.0	OFF	1164	0	0.00	0	64.2	64.2	64.2
9-10 AM	1553	0.0	OFF	1553	0	0.00	0	63.5	63.5	63.5
10-11 AM	1952	0.0	OFF	1952	0	0.00	0	62.7	62.7	62.7
11AM-NOON	2027	0.0	OFF	2027	0	0.00	0	62.6	62.6	62.6
NOON-1PM	2016	0.0	OFF	2016	0	0.00	0	62.7	62.7	62.7
1-2 PM	1847	0.0	OFF	1847	0	0.00	0	63.0	63.0	63.0
2-3 PM	1810	0.0	OFF	1810	0	0.00	0	63.0	63.0	63.0
3-4 PM	1660	0.0	OFF	1660	0	0.00	0	63.3	63.3	63.3
4-5 PM	1487	0.0	OFF	1487	0	0.00	0	63.6	63.6	63.6
5-6 PM	1323	0.0	OFF	1323	0	0.00	0	63.9	63.9	63.9
6-7 PM	1282	0.0	1500	1282	0	0.74	0	64.0	47.1	36.0
7-8 PM	993	0.0	1500	993	0	0.52	0	64.5	51.5	41.7
8-9 PM	870	0.0	1500	870	0	0.51	0	64.8	51.9	42.2
9-10 PM	769	0.0	1500	769	0	0.50	0	65.0	52.2	42.5
10-11 PM	811	0.0	1500	811	0	0.50	0	64.9	52.0	42.4
11PM-MID	636	0.0	1500	636	0	0.48	0	65.2	52.6	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	0.0087
MAIN ROUTE WITH WORKS	0.0082
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,004
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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