

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

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	200	0.0	1500	200	0	0.44	0	66.0	54.0	44.7	
1-2 AM	100	0.0	1500	100	0	0.43	0	66.2	54.4	45.1	
2-3 AM	106	0.0	1500	106	0	0.43	0	66.2	54.4	45.1	
3-4 AM	92	0.0	1500	92	0	0.43	0	66.2	54.4	45.1	
4-5 AM	141	0.0	1500	141	0	0.44	0	66.1	54.3	44.9	
5-6 AM	291	0.0	1500	291	0	0.45	0	65.8	53.8	44.3	
6-7 AM	336	0.0	1500	336	0	0.46	0	65.8	53.6	44.2	
7-8 AM	494	0.0	1500	494	0	0.47	0	65.5	53.1	43.5	
8-9 AM	899	0.0	1500	899	0	0.51	0	64.7	51.8	42.0	
9-10 AM	1518	0.0	OFF	1518	0	0.00	0	63.5	63.5	63.5	
10-11 AM	2025	0.0	OFF	2025	0	0.00	0	62.6	62.6	62.6	
11AM-NOON	2636	0.0	OFF	2636	0	0.00	0	59.5	59.5	59.5	
NOON-1PM	2892	0.0	OFF	2892	0	0.00	0	56.9	56.9	56.9	
1-2 PM	2790	0.0	OFF	2790	0	0.00	0	57.9	57.9	57.9	
2-3 PM	2754	0.0	OFF	2754	0	0.00	0	58.3	58.3	58.3	
3-4 PM	2788	0.0	OFF	2788	0	0.00	0	57.9	57.9	57.9	
4-5 PM	2588	0.0	OFF	2588	0	0.00	0	60.0	60.0	60.0	
5-6 PM	2398	0.0	OFF	2398	0	0.00	0	61.9	61.9	61.9	
6-7 PM	1884	0.0	OFF	1884	0	0.00	0	62.8	62.8	62.8	
7-8 PM	1504	0.0	1499	1504	0	1.97	26	63.6	32.6	31.3	
8-9 PM	1092	0.0	1500	1092	0	0.57	0	64.3	50.2	40.1	
9-10 PM	673	0.0	1500	673	0	0.49	0	65.1	52.5	42.8	
10-11 PM	404	0.0	1500	404	0	0.46	0	65.6	53.3	43.9	
11PM-MID	179	0.0	1500	179	0	0.44	0	66.1	54.2	44.8	

"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

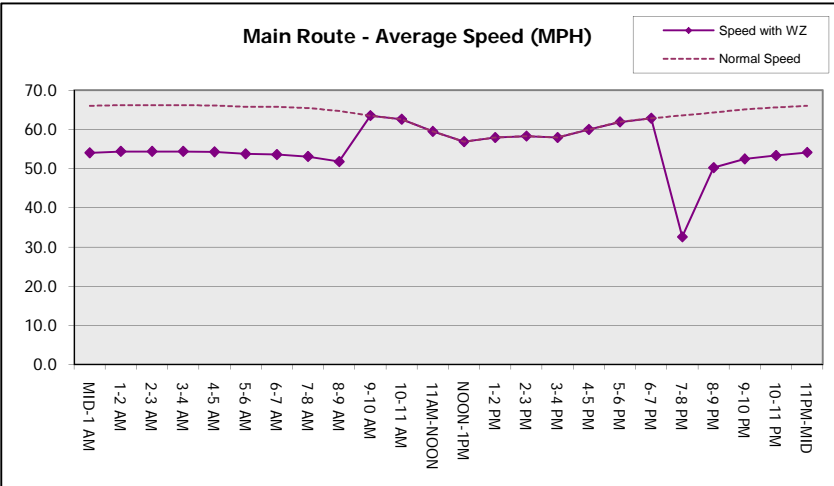
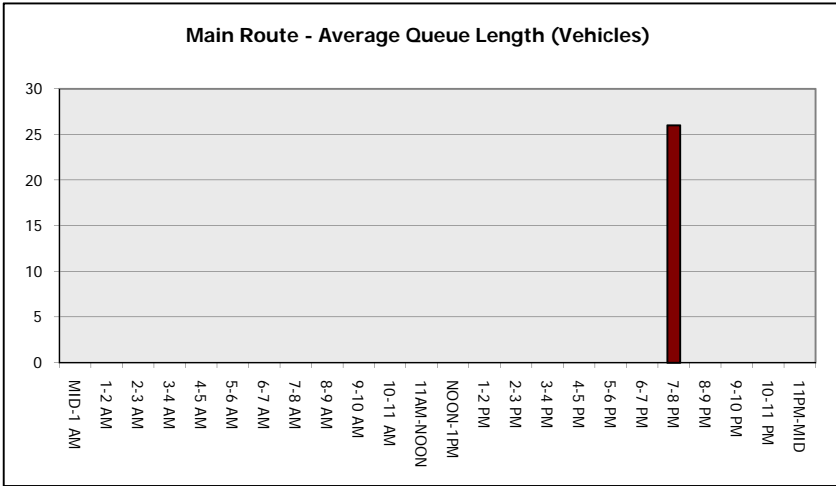
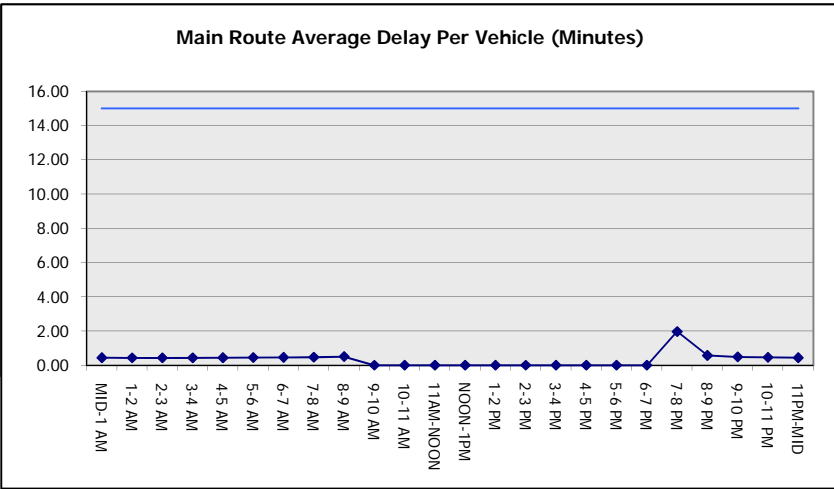
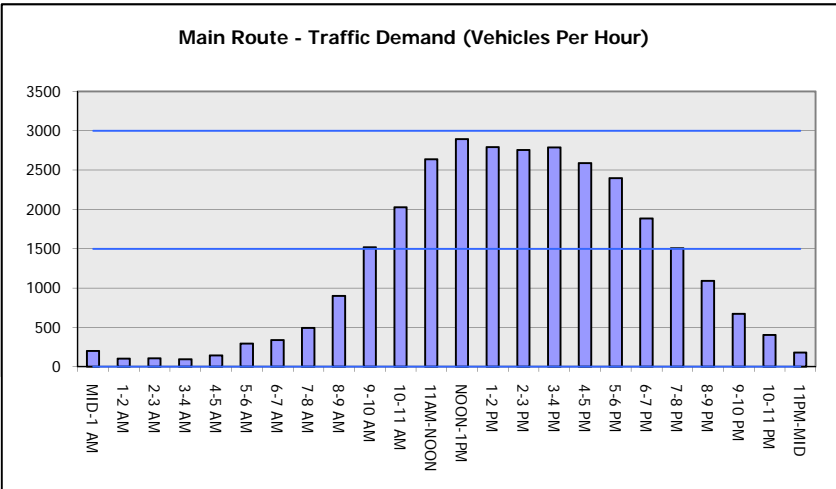
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0108
MAIN ROUTE WITH WORKS	0.0103
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,330
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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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	289	0.0	1500	289	0	0.45	0	65.8	53.8	44.3
1-2 AM	174	0.0	1500	174	0	0.44	0	66.1	54.2	44.8
2-3 AM	140	0.0	1500	140	0	0.44	0	66.1	54.3	44.9
3-4 AM	91	0.0	1500	91	0	0.43	0	66.2	54.4	45.1
4-5 AM	76	0.0	1500	76	0	0.43	0	66.3	54.5	45.2
5-6 AM	129	0.0	1500	129	0	0.43	0	66.1	54.3	45.0
6-7 AM	285	0.0	1500	285	0	0.45	0	65.8	53.8	44.3
7-8 AM	358	0.0	1500	358	0	0.46	0	65.7	53.5	44.0
8-9 AM	526	0.0	1500	526	0	0.47	0	65.4	53.0	43.4
9-10 AM	836	0.0	OFF	836	0	0.00	0	64.8	64.8	64.8
10-11 AM	1223	0.0	OFF	1223	0	0.00	0	64.1	64.1	64.1
11AM-NOON	1496	0.0	OFF	1496	0	0.00	0	63.6	63.6	63.6
NOON-1PM	1603	0.0	OFF	1603	0	0.00	0	63.4	63.4	63.4
1-2 PM	1642	0.0	OFF	1642	0	0.00	0	63.3	63.3	63.3
2-3 PM	1616	0.0	OFF	1616	0	0.00	0	63.4	63.4	63.4
3-4 PM	1648	0.0	OFF	1648	0	0.00	0	63.3	63.3	63.3
4-5 PM	1559	0.0	OFF	1559	0	0.00	0	63.5	63.5	63.5
5-6 PM	1429	0.0	OFF	1429	0	0.00	0	63.7	63.7	63.7
6-7 PM	1236	0.0	OFF	1236	0	0.00	0	64.1	64.1	64.1
7-8 PM	947	0.0	1500	947	0	0.51	0	64.6	51.6	41.9
8-9 PM	749	0.0	1500	749	0	0.49	0	65.0	52.2	42.6
9-10 PM	506	0.0	1500	506	0	0.47	0	65.5	53.0	43.5
10-11 PM	379	0.0	1500	379	0	0.46	0	65.7	53.5	44.0
11PM-MID	250	0.0	1500	250	0	0.45	0	65.9	53.9	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	0.0067
MAIN ROUTE WITH WORKS	0.0064
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$566
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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