

USH 41: CTH M 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 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	145	0.0	OFF	145	0	0.00	0	66.1	66.1	66.1	
1-2 AM	91	0.0	OFF	91	0	0.00	0	66.2	66.2	66.2	
2-3 AM	134	0.0	OFF	134	0	0.00	0	66.1	66.1	66.1	
3-4 AM	168	0.0	OFF	168	0	0.00	0	66.1	66.1	66.1	
4-5 AM	501	0.0	OFF	501	0	0.00	0	65.5	65.5	65.5	
5-6 AM	1325	0.0	OFF	1325	0	0.00	0	63.9	63.9	63.9	
6-7 AM	2285	0.0	OFF	2285	0	0.00	0	62.1	62.1	62.1	
7-8 AM	2525	0.0	OFF	2525	0	0.00	0	60.6	60.6	60.6	
8-9 AM	1729	0.0	OFF	1729	0	0.00	0	63.2	63.2	63.2	
9-10 AM	1634	0.0	OFF	1634	0	0.00	0	63.3	63.3	63.3	
10-11 AM	1724	0.0	1499	1724	0	4.37	107	63.2	20.4	30.8	
11AM-NOON	1787	0.0	1500	1688	99	13.92+	354	63.0	9.9	30.8	
NOON-1PM	1759	0.0	1499	1502	257	16.74+	424	63.1	9.0	30.8	
1-2 PM	1789	0.0	1500	1502	288	16.74+	424	63.0	9.0	30.8	
2-3 PM	1829	0.0	1500	1501	328	16.74+	424	63.0	9.0	30.8	
3-4 PM	1755	0.0	OFF	1755	0	0.61	38	63.1	48.9	48.9	
4-5 PM	1768	0.0	OFF	1768	0	0.00	0	63.1	63.1	63.1	
5-6 PM	1752	0.0	OFF	1752	0	0.00	0	63.1	63.1	63.1	
6-7 PM	1365	0.0	OFF	1365	0	0.00	0	63.8	63.8	63.8	
7-8 PM	912	0.0	OFF	912	0	0.00	0	64.7	64.7	64.7	
8-9 PM	728	0.0	OFF	728	0	0.00	0	65.0	65.0	65.0	
9-10 PM	562	0.0	OFF	562	0	0.00	0	65.3	65.3	65.3	
10-11 PM	422	0.0	OFF	422	0	0.00	0	65.6	65.6	65.6	
11PM-MID	241	0.0	OFF	241	0	0.00	0	66.0	66.0	66.0	

"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

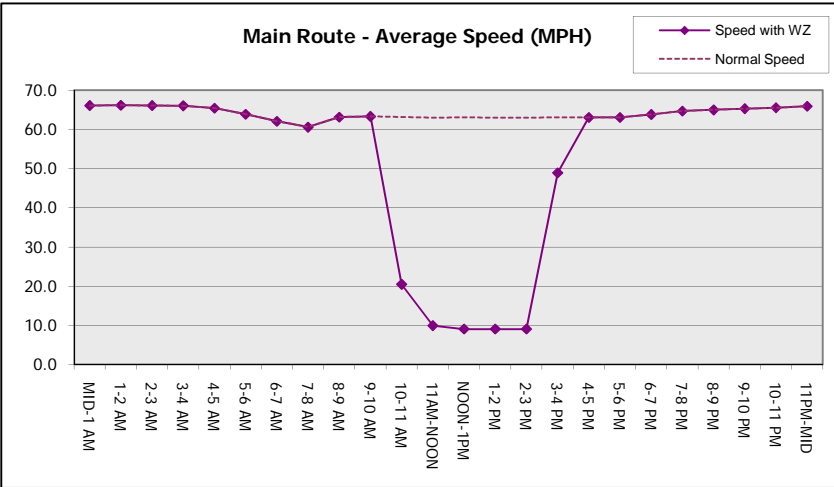
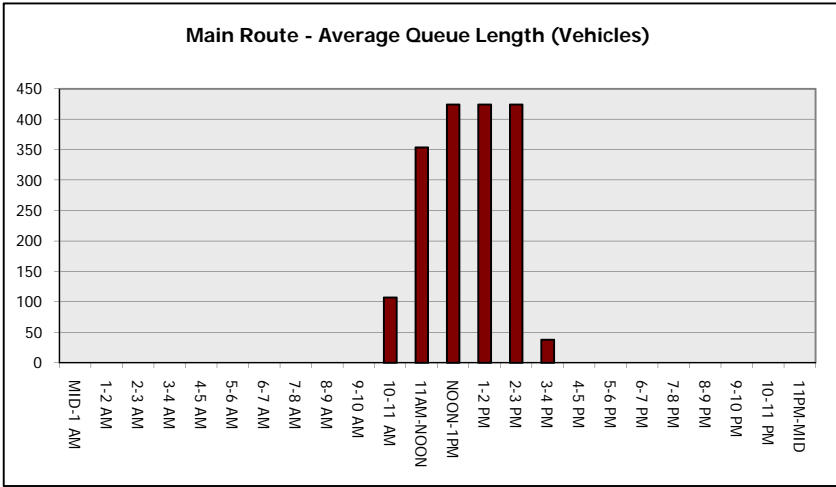
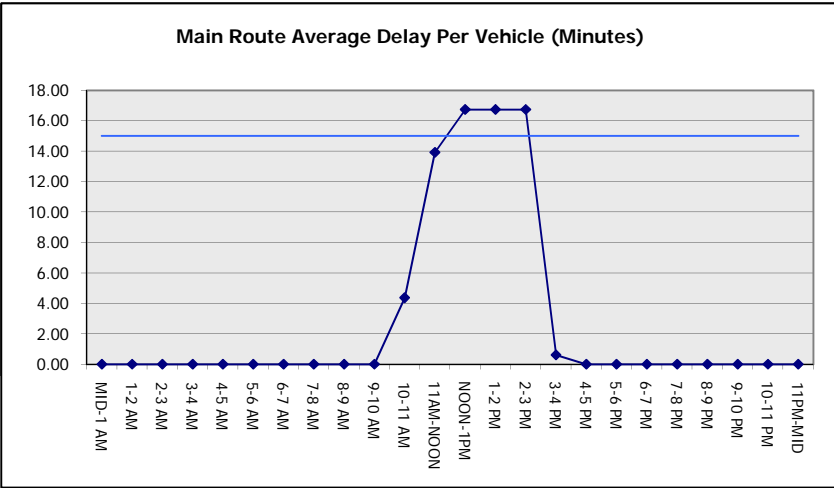
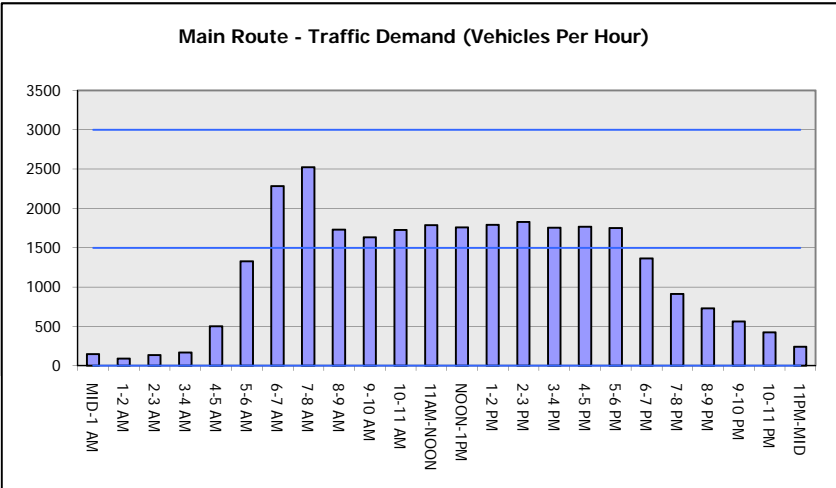
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0101
MAIN ROUTE WITH WORKS	0.0093
'DIVERSION'	0.0008
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$26,577
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	267	0.0	OFF	267	0	0.00	0	65.9	65.9	65.9
1-2 AM	191	0.0	OFF	191	0	0.00	0	66.0	66.0	66.0
2-3 AM	164	0.0	OFF	164	0	0.00	0	66.1	66.1	66.1
3-4 AM	160	0.0	OFF	160	0	0.00	0	66.1	66.1	66.1
4-5 AM	188	0.0	OFF	188	0	0.00	0	66.0	66.0	66.0
5-6 AM	446	0.0	OFF	446	0	0.00	0	65.6	65.6	65.6
6-7 AM	862	0.0	OFF	862	0	0.00	0	64.8	64.8	64.8
7-8 AM	1015	0.0	OFF	1015	0	0.00	0	64.5	64.5	64.5
8-9 AM	1172	0.0	OFF	1172	0	0.00	0	64.2	64.2	64.2
9-10 AM	1405	0.0	OFF	1405	0	0.00	0	63.8	63.8	63.8
10-11 AM	1674	0.0	1499	1674	0	3.24	72	63.3	24.8	30.8
11AM-NOON	1872	0.0	1500	1747	125	12.83+	329	62.9	10.3	30.8
NOON-1PM	2101	0.0	1499	1501	601	16.74+	425	62.5	9.0	30.8
1-2 PM	2458	0.0	1499	1501	957	16.72+	426	61.3	8.9	30.8
2-3 PM	2750	0.0	1500	1507	1243	16.72+	430	58.3	8.9	30.8
3-4 PM	3346	0.0	OFF	3346	0	2.36	141	52.2	27.0	27.0
4-5 PM	3876	0.0	OFF	3876	0	0.00	0	46.8	46.8	46.8
5-6 PM	3622	0.0	OFF	3622	0	0.00	0	49.4	49.4	49.4
6-7 PM	2800	0.0	OFF	2800	0	0.00	0	57.8	57.8	57.8
7-8 PM	2011	0.0	OFF	2011	0	0.00	0	62.7	62.7	62.7
8-9 PM	1598	0.0	OFF	1598	0	0.00	0	63.4	63.4	63.4
9-10 PM	1261	0.0	OFF	1261	0	0.00	0	64.0	64.0	64.0
10-11 PM	947	0.0	OFF	947	0	0.00	0	64.6	64.6	64.6
11PM-MID	627	0.0	OFF	627	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	0.0129
MAIN ROUTE WITH WORKS	0.0113
'DIVERSION'	0.0024

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$34,345
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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