

USH 41: CTH AAA TO CTH G (BROWN COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	239	0.0	OFF	239	0	0.00	0	66.0	66.0	66.0	
1-2 AM	182	0.0	OFF	182	0	0.00	0	66.1	66.1	66.1	
2-3 AM	160	0.0	OFF	160	0	0.00	0	66.1	66.1	66.1	
3-4 AM	204	0.0	OFF	204	0	0.00	0	66.0	66.0	66.0	
4-5 AM	458	0.0	OFF	458	0	0.00	0	65.5	65.5	65.5	
5-6 AM	1355	0.0	OFF	1355	0	0.00	0	63.8	63.8	63.8	
6-7 AM	2602	0.0	OFF	2602	0	0.00	0	59.9	59.9	59.9	
7-8 AM	3280	0.0	OFF	3280	0	0.00	0	52.9	52.9	52.9	
8-9 AM	2098	0.0	OFF	2098	0	0.00	0	62.5	62.5	62.5	
9-10 AM	1826	0.0	OFF	1826	0	0.00	0	63.0	63.0	63.0	
10-11 AM	1917	0.0	1499	1917	0	7.40	201	62.8	11.7	30.8	
11AM-NOON	2052	0.0	1499	1506	545	17.40+	442	62.5	7.6	30.8	
NOON-1PM	2196	0.0	1500	1505	691	17.41+	443	62.3	7.6	30.8	
1-2 PM	2319	0.0	1500	1504	816	17.42+	443	62.0	7.6	30.8	
2-3 PM	2478	0.0	1500	1504	973	17.41+	444	61.1	7.6	30.8	
3-4 PM	2813	0.0	OFF	2813	0	1.31	80	57.7	29.2	29.2	
4-5 PM	3376	0.0	OFF	3376	0	0.00	0	51.9	51.9	51.9	
5-6 PM	3115	0.0	OFF	3115	0	0.00	0	54.6	54.6	54.6	
6-7 PM	1839	0.0	OFF	1839	0	0.00	0	63.0	63.0	63.0	
7-8 PM	1291	0.0	OFF	1291	0	0.00	0	64.0	64.0	64.0	
8-9 PM	1179	0.0	OFF	1179	0	0.00	0	64.2	64.2	64.2	
9-10 PM	1036	0.0	OFF	1036	0	0.00	0	64.5	64.5	64.5	
10-11 PM	869	0.0	OFF	869	0	0.00	0	64.8	64.8	64.8	
11PM-MID	530	0.0	OFF	530	0	0.00	0	65.4	65.4	65.4	

"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

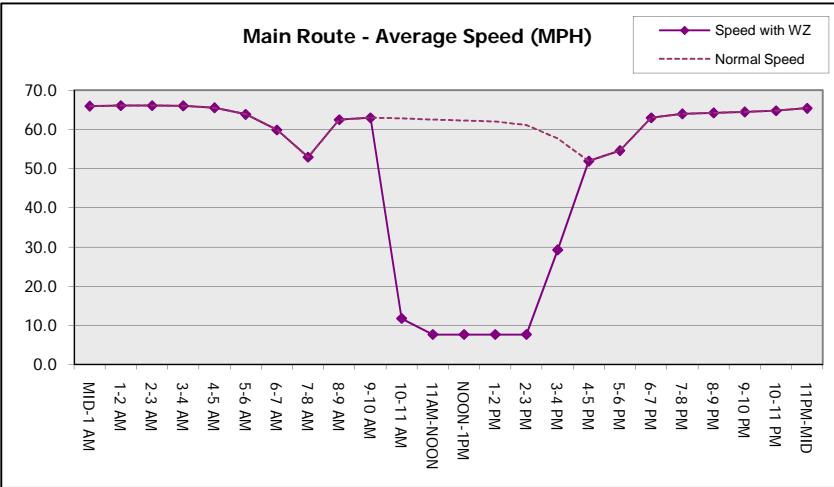
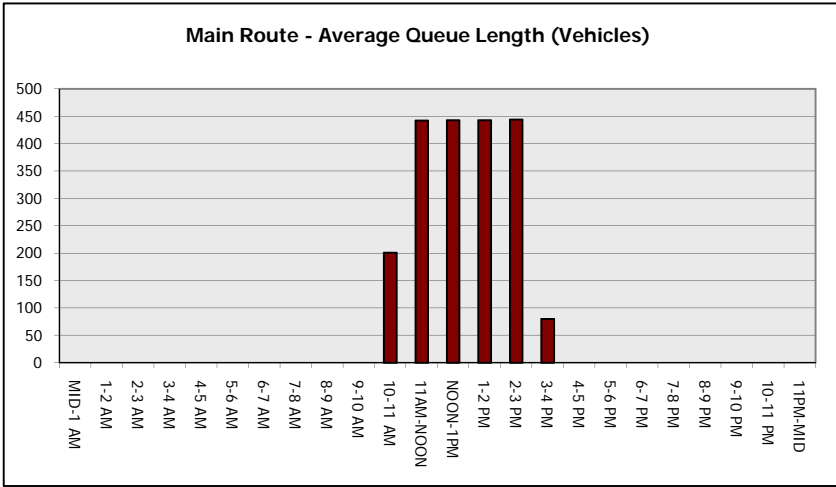
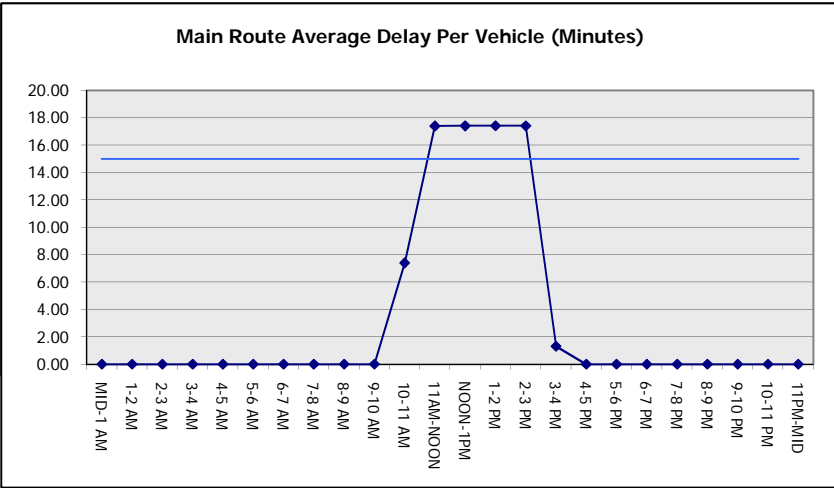
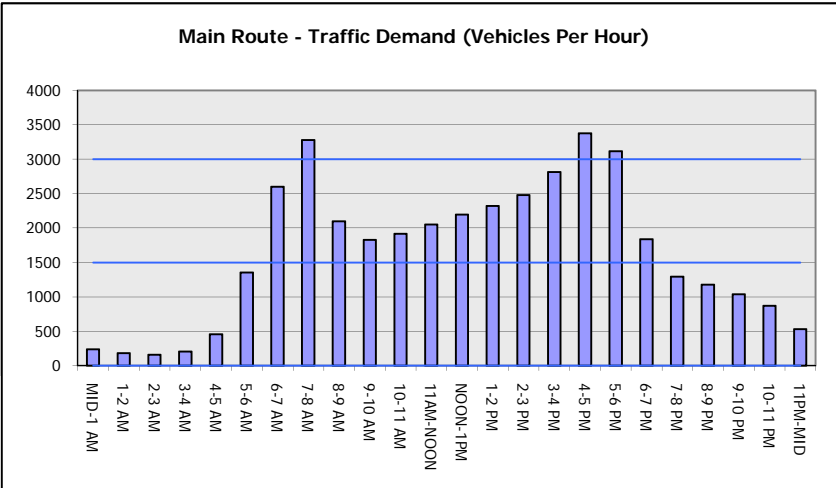
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0081
MAIN ROUTE WITH WORKS	0.0070
'DIVERSION'	0.0014
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$37,974
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	228	0.0	OFF	228	0	0.00	0	66.0	66.0	66.0
1-2 AM	142	0.0	OFF	142	0	0.00	0	66.1	66.1	66.1
2-3 AM	162	0.0	OFF	162	0	0.00	0	66.1	66.1	66.1
3-4 AM	163	0.0	OFF	163	0	0.00	0	66.1	66.1	66.1
4-5 AM	307	0.0	OFF	307	0	0.00	0	65.8	65.8	65.8
5-6 AM	865	0.0	OFF	865	0	0.00	0	64.8	64.8	64.8
6-7 AM	2078	0.0	OFF	2078	0	0.00	0	62.5	62.5	62.5
7-8 AM	3292	0.0	OFF	3292	0	0.00	0	52.8	52.8	52.8
8-9 AM	2397	0.0	OFF	2397	0	0.00	0	61.9	61.9	61.9
9-10 AM	2018	0.0	OFF	2018	0	0.00	0	62.6	62.6	62.6
10-11 AM	1969	0.0	1499	1969	0	8.45+	231	62.7	11.0	30.8
11AM-NOON	2108	0.0	1499	1493	615	17.40+	443	62.5	7.6	30.8
NOON-1PM	2176	0.0	1499	1495	681	17.41+	443	62.3	7.6	30.8
1-2 PM	2191	0.0	1499	1496	694	17.41+	443	62.3	7.6	30.8
2-3 PM	2472	0.0	1499	1497	975	17.41+	444	61.2	7.6	30.8
3-4 PM	3021	0.0	OFF	3021	0	1.69	104	55.6	25.2	25.2
4-5 PM	3660	0.0	OFF	3660	0	0.00	0	49.0	49.0	49.0
5-6 PM	3346	0.0	OFF	3346	0	0.00	0	52.2	52.2	52.2
6-7 PM	2031	0.0	OFF	2031	0	0.00	0	62.6	62.6	62.6
7-8 PM	1304	0.0	OFF	1304	0	0.00	0	64.0	64.0	64.0
8-9 PM	1106	0.0	OFF	1106	0	0.00	0	64.3	64.3	64.3
9-10 PM	892	0.0	OFF	892	0	0.00	0	64.7	64.7	64.7
10-11 PM	693	0.0	OFF	693	0	0.00	0	65.1	65.1	65.1
11PM-MID	409	0.0	OFF	409	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	0.0081
MAIN ROUTE WITH WORKS	0.0069
'DIVERSION'	0.0014

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$38,438
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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