

USH 41: STH 29 TO CTH AAA (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	444	0.0	1500	444	0	2.29	99	65.6	43.1	43.2	
1-2 AM	324	0.0	1500	324	0	0.45	0	65.8	59.6	44.2	
2-3 AM	277	0.0	1500	277	0	0.45	0	65.9	59.7	44.4	
3-4 AM	248	0.0	1500	248	0	0.45	0	66.0	59.8	44.5	
4-5 AM	245	0.0	1500	245	0	0.45	0	66.0	59.8	44.5	
5-6 AM	423	0.0	1500	423	0	0.46	0	65.6	59.3	43.8	
6-7 AM	629	0.0	1500	629	0	0.48	0	65.2	58.7	43.0	
7-8 AM	1005	0.0	1500	1005	0	0.52	0	64.5	57.8	41.7	
8-9 AM	1325	0.0	OFF	1325	0	0.00	0	63.9	63.9	63.9	
9-10 AM	1608	0.0	OFF	1608	0	0.00	0	63.4	63.4	63.4	
10-11 AM	1992	0.0	OFF	1992	0	0.00	0	62.7	62.7	62.7	
11AM-NOON	2124	0.0	OFF	2124	0	0.00	0	62.4	62.4	62.4	
NOON-1PM	2256	0.0	OFF	2256	0	0.00	0	62.2	62.2	62.2	
1-2 PM	2163	0.0	OFF	2163	0	0.00	0	62.3	62.3	62.3	
2-3 PM	2178	0.0	OFF	2178	0	0.00	0	62.3	62.3	62.3	
3-4 PM	2095	0.0	OFF	2095	0	0.00	0	62.5	62.5	62.5	
4-5 PM	1997	0.0	OFF	1997	0	0.00	0	62.7	62.7	62.7	
5-6 PM	1744	0.0	OFF	1744	0	0.00	0	63.2	63.2	63.2	
6-7 PM	1524	0.0	1499	1524	0	2.07	28	63.5	43.6	30.8	
7-8 PM	1220	0.0	1500	1220	0	0.70	1	64.1	55.4	37.8	
8-9 PM	1225	0.0	1499	1225	0	0.67	0	64.1	55.8	37.8	
9-10 PM	1646	0.0	1499	1646	0	2.13	38	63.3	43.1	31.0	
10-11 PM	2548	0.0	1500	1757	791	14.12+	371	60.4	15.2	32.9	
11PM-MID	1967	0.0	1499	1500	467	15.79+	399	62.7	14.1	30.8	

"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

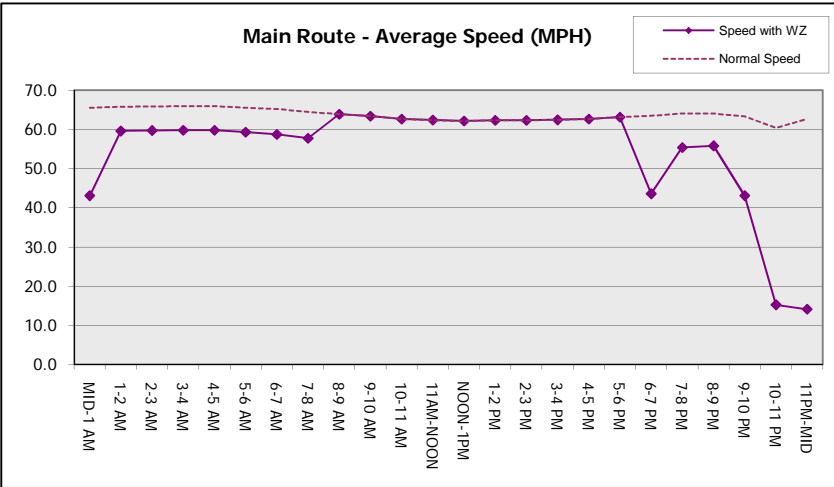
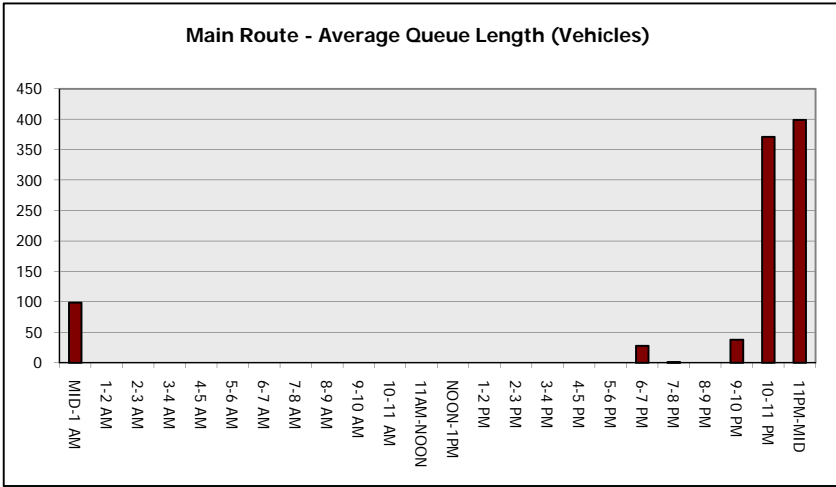
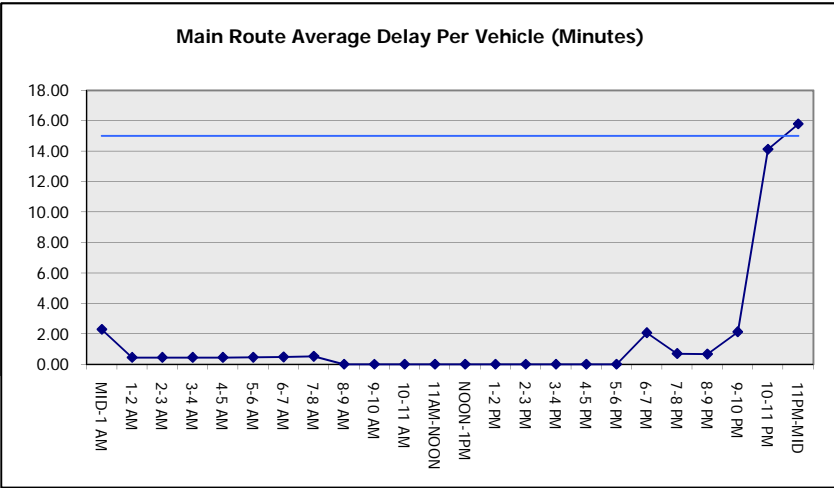
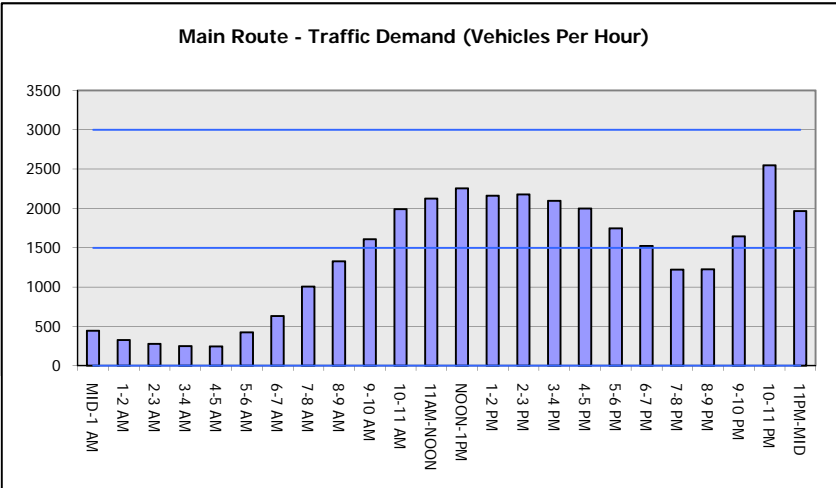
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0253
MAIN ROUTE WITH WORKS	0.0236
'DIVERSION'	0.0022
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$20,460
CONGESTED HOURS PER DAY*	2

*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	375	0.0	1500	375	0	0.46	0	65.7	59.4	44.0
1-2 AM	246	0.0	1500	246	0	0.45	0	66.0	59.8	44.5
2-3 AM	211	0.0	1500	211	0	0.44	0	66.0	59.9	44.6
3-4 AM	177	0.0	1500	177	0	0.44	0	66.1	60.0	44.8
4-5 AM	220	0.0	1500	220	0	0.44	0	66.0	59.9	44.6
5-6 AM	377	0.0	1500	377	0	0.46	0	65.7	59.4	44.0
6-7 AM	634	0.0	1500	634	0	0.48	0	65.2	58.7	43.0
7-8 AM	993	0.0	1499	993	0	0.52	0	64.5	57.8	41.7
8-9 AM	1456	0.0	OFF	1456	0	0.00	0	63.7	63.7	63.7
9-10 AM	1861	0.0	OFF	1861	0	0.00	0	62.9	62.9	62.9
10-11 AM	2281	0.0	OFF	2281	0	0.00	0	62.2	62.2	62.2
11AM-NOON	2443	0.0	OFF	2443	0	0.00	0	61.5	61.5	61.5
NOON-1PM	2455	0.0	OFF	2455	0	0.00	0	61.4	61.4	61.4
1-2 PM	2560	0.0	OFF	2560	0	0.00	0	60.3	60.3	60.3
2-3 PM	2747	0.0	OFF	2747	0	0.00	0	58.4	58.4	58.4
3-4 PM	2869	0.0	OFF	2869	0	0.00	0	57.1	57.1	57.1
4-5 PM	2903	0.0	OFF	2903	0	0.00	0	56.8	56.8	56.8
5-6 PM	2592	0.0	OFF	2592	0	0.00	0	59.9	59.9	59.9
6-7 PM	2001	0.0	1499	1894	107	10.13+	275	62.7	19.6	30.8
7-8 PM	1306	0.0	1499	1306	0	12.81+	324	64.0	16.6	30.9
8-9 PM	1106	0.0	1499	1106	0	2.06	57	64.3	44.0	38.3
9-10 PM	932	0.0	1500	932	0	0.51	0	64.6	57.9	41.9
10-11 PM	805	0.0	1500	805	0	0.50	0	64.9	58.3	42.4
11PM-MID	616	0.0	1500	616	0	0.48	0	65.3	58.8	43.1

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0261
MAIN ROUTE WITH WORKS	0.0253
'DIVERSION'	0.0002

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$11,030
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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