

USH 41: CTH G TO CTH F (BROWN COUNTY) NIGHTTIME 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	285	0.0	1500	285	0	0.45	0	65.8	52.3	44.3	
1-2 AM	204	0.0	1500	204	0	0.44	0	66.0	52.5	44.6	
2-3 AM	179	0.0	1500	179	0	0.44	0	66.1	52.7	44.8	
3-4 AM	186	0.0	1500	186	0	0.44	0	66.0	52.6	44.7	
4-5 AM	402	0.0	1500	402	0	0.46	0	65.6	51.9	43.9	
5-6 AM	1046	0.0	OFF	1046	0	0.00	0	64.5	64.5	64.5	
6-7 AM	2021	0.0	OFF	2021	0	0.00	0	62.6	62.6	62.6	
7-8 AM	2578	0.0	OFF	2578	0	0.00	0	60.1	60.1	60.1	
8-9 AM	1791	0.0	OFF	1791	0	0.00	0	63.0	63.0	63.0	
9-10 AM	1715	0.0	OFF	1715	0	0.00	0	63.2	63.2	63.2	
10-11 AM	1861	0.0	OFF	1861	0	0.00	0	62.9	62.9	62.9	
11AM-NOON	2045	0.0	OFF	2045	0	0.00	0	62.6	62.6	62.6	
NOON-1PM	2223	0.0	OFF	2223	0	0.00	0	62.2	62.2	62.2	
1-2 PM	2301	0.0	OFF	2301	0	0.00	0	62.1	62.1	62.1	
2-3 PM	2417	0.0	OFF	2417	0	0.00	0	61.7	61.7	61.7	
3-4 PM	2577	0.0	OFF	2577	0	0.00	0	60.1	60.1	60.1	
4-5 PM	2865	0.0	OFF	2865	0	0.00	0	57.1	57.1	57.1	
5-6 PM	2509	0.0	OFF	2509	0	0.00	0	60.8	60.8	60.8	
6-7 PM	1665	0.0	OFF	1665	0	0.00	0	63.3	63.3	63.3	
7-8 PM	1198	0.0	1500	1198	0	0.63	0	64.1	47.3	38.5	
8-9 PM	1015	0.0	1500	1015	0	0.52	0	64.5	49.8	41.6	
9-10 PM	895	0.0	1500	895	0	0.51	0	64.7	50.2	42.0	
10-11 PM	767	0.0	1500	767	0	0.50	0	65.0	50.6	42.5	
11PM-MID	558	0.0	1500	558	0	0.48	0	65.3	51.4	43.3	

"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

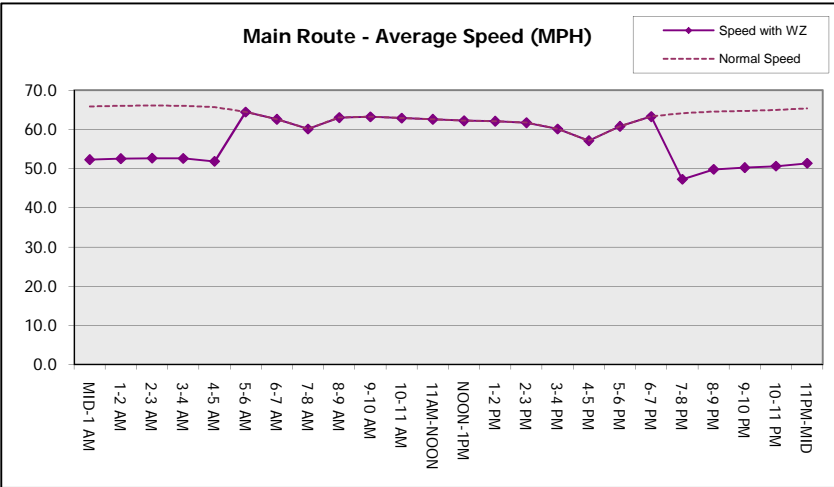
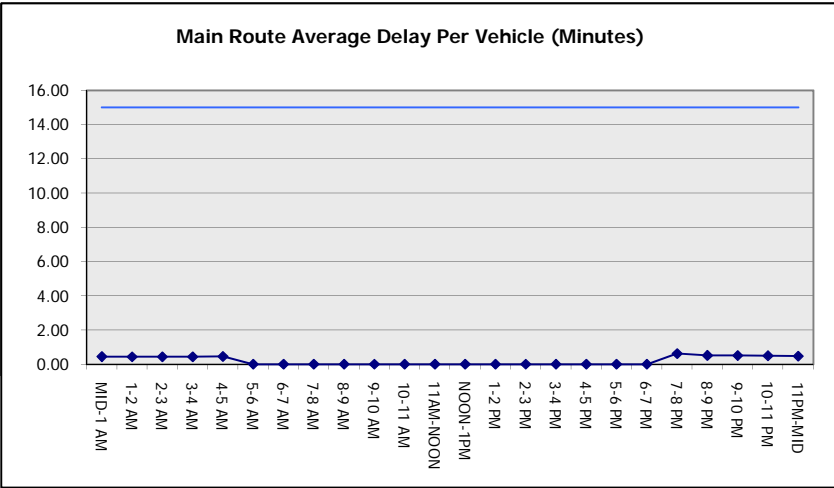
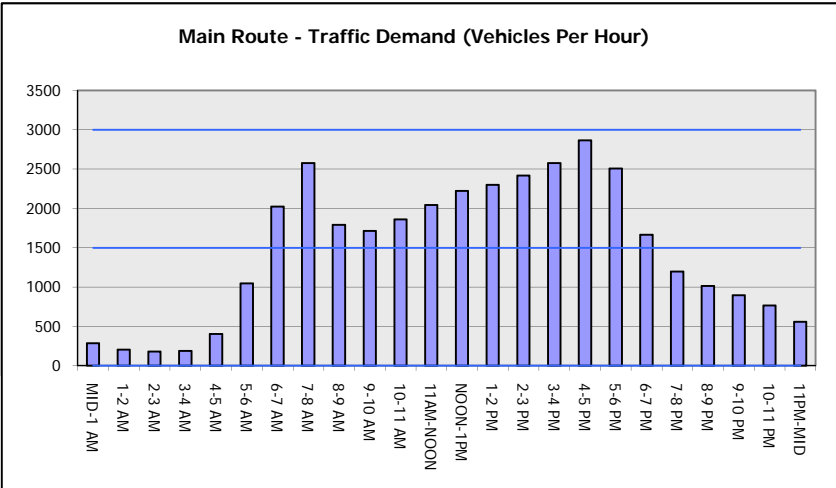
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0107
MAIN ROUTE WITH WORKS	0.0103
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$667
CONGESTED HOURS PER DAY*	0

*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	281	0.0	1500	281	0	0.45	0	65.9	52.3	44.3
1-2 AM	175	0.0	1500	175	0	0.44	0	66.1	52.7	44.8
2-3 AM	174	0.0	1500	174	0	0.44	0	66.1	52.7	44.8
3-4 AM	171	0.0	1500	171	0	0.44	0	66.1	52.7	44.8
4-5 AM	269	0.0	1500	269	0	0.45	0	65.9	52.4	44.4
5-6 AM	697	0.0	OFF	697	0	0.00	0	65.1	65.1	65.1
6-7 AM	1652	0.0	OFF	1652	0	0.00	0	63.3	63.3	63.3
7-8 AM	2637	0.0	OFF	2637	0	0.00	0	59.5	59.5	59.5
8-9 AM	2021	0.0	OFF	2021	0	0.00	0	62.6	62.6	62.6
9-10 AM	1916	0.0	OFF	1916	0	0.00	0	62.8	62.8	62.8
10-11 AM	2040	0.0	OFF	2040	0	0.00	0	62.6	62.6	62.6
11AM-NOON	2227	0.0	OFF	2227	0	0.00	0	62.2	62.2	62.2
NOON-1PM	2367	0.0	OFF	2367	0	0.00	0	62.0	62.0	62.0
1-2 PM	2395	0.0	OFF	2395	0	0.00	0	61.9	61.9	61.9
2-3 PM	2676	0.0	OFF	2676	0	0.00	0	59.1	59.1	59.1
3-4 PM	2966	0.0	OFF	2966	0	0.00	0	56.1	56.1	56.1
4-5 PM	3331	0.0	OFF	3331	0	0.00	0	52.4	52.4	52.4
5-6 PM	2998	0.0	OFF	2998	0	0.00	0	55.8	55.8	55.8
6-7 PM	2162	0.0	OFF	2162	0	0.00	0	62.3	62.3	62.3
7-8 PM	1552	0.0	1499	1552	0	2.99	54	63.5	23.8	30.8
8-9 PM	1255	0.0	1500	1255	0	0.91	7	64.0	42.3	36.5
9-10 PM	1057	0.0	1500	1057	0	0.52	0	64.4	49.7	41.5
10-11 PM	800	0.0	1500	800	0	0.50	0	64.9	50.5	42.4
11PM-MID	546	0.0	1500	546	0	0.48	0	65.4	51.4	43.3

"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	0.0116
MAIN ROUTE WITH WORKS	0.0112
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,687
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
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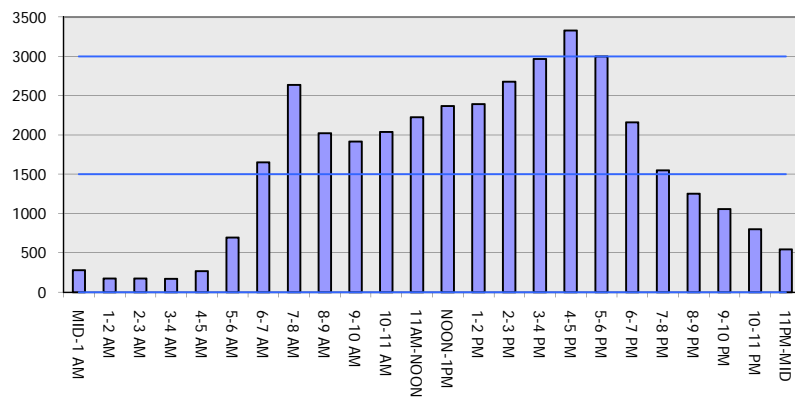
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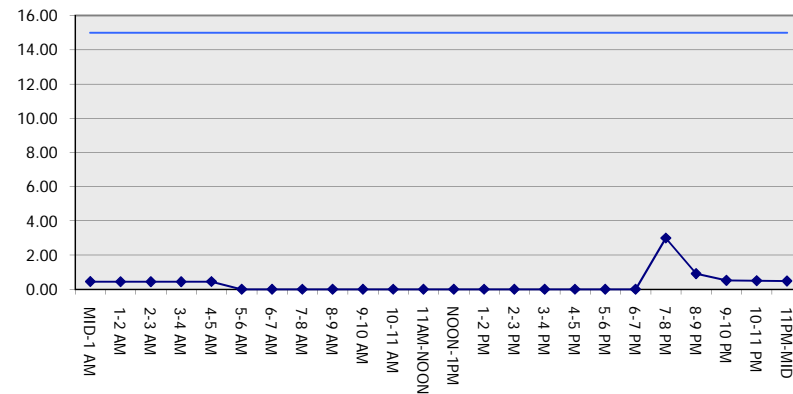
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY NORTHBOUND DIRECTION

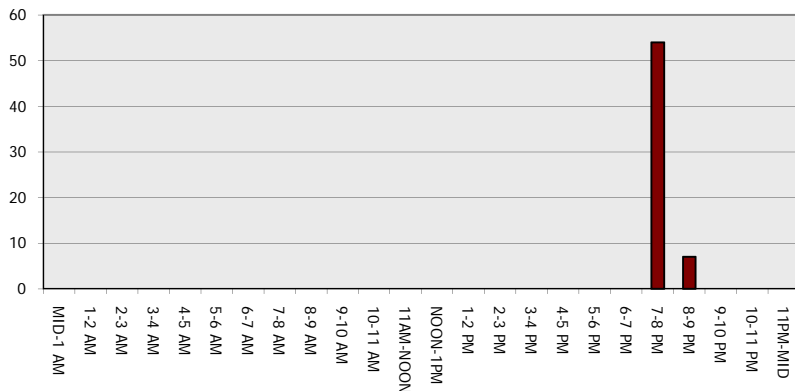
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

