

USH 41: CTH B TO CTH M (BROWN COUNTY) CONTINUOUS (24 HOUR) 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	90	0.0	1500	90	0	0.43	0	66.2	57.4	45.1	
1-2 AM	66	0.0	1500	66	0	0.43	0	66.3	57.5	45.2	
2-3 AM	96	0.0	1500	96	0	0.43	0	66.2	57.4	45.1	
3-4 AM	139	0.0	1500	139	0	0.44	0	66.1	57.3	45.0	
4-5 AM	466	0.0	1500	466	0	0.47	0	65.5	56.3	43.7	
5-6 AM	1285	0.0	1499	1285	0	0.75	0	64.0	50.8	36.1	
6-7 AM	2151	0.0	1499	1920	231	8.87+	255	62.3	16.0	30.8	
7-8 AM	2330	0.0	1500	1499	831	16.07+	408	62.0	10.4	30.8	
8-9 AM	1509	0.0	1500	1439	70	15.77+	398	63.6	10.5	30.8	
9-10 AM	1282	0.0	1499	1282	0	10.10	254	64.0	14.3	30.9	
10-11 AM	1326	0.0	1500	1326	0	2.51	56	63.9	34.3	32.9	
11AM-NOON	1297	0.0	1500	1297	0	0.76	0	64.0	50.7	35.6	
NOON-1PM	1285	0.0	1500	1285	0	0.75	0	64.0	50.9	36.0	
1-2 PM	1348	0.0	1500	1348	0	0.83	0	63.9	49.7	34.2	
2-3 PM	1352	0.0	1500	1352	0	0.83	0	63.8	49.6	34.2	
3-4 PM	1336	0.0	1500	1336	0	0.81	0	63.9	49.9	34.5	
4-5 PM	1385	0.0	1500	1385	0	0.88	0	63.8	49.1	33.3	
5-6 PM	1325	0.0	1500	1325	0	0.80	0	63.9	50.2	34.8	
6-7 PM	893	0.0	1500	893	0	0.51	0	64.7	55.0	42.0	
7-8 PM	633	0.0	1500	633	0	0.48	0	65.2	55.8	43.0	
8-9 PM	536	0.0	1500	536	0	0.47	0	65.4	56.0	43.3	
9-10 PM	422	0.0	1500	422	0	0.46	0	65.6	56.4	43.8	
10-11 PM	291	0.0	1500	291	0	0.45	0	65.8	56.8	44.3	
11PM-MID	138	0.0	1500	138	0	0.44	0	66.1	57.3	45.0	

+ 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

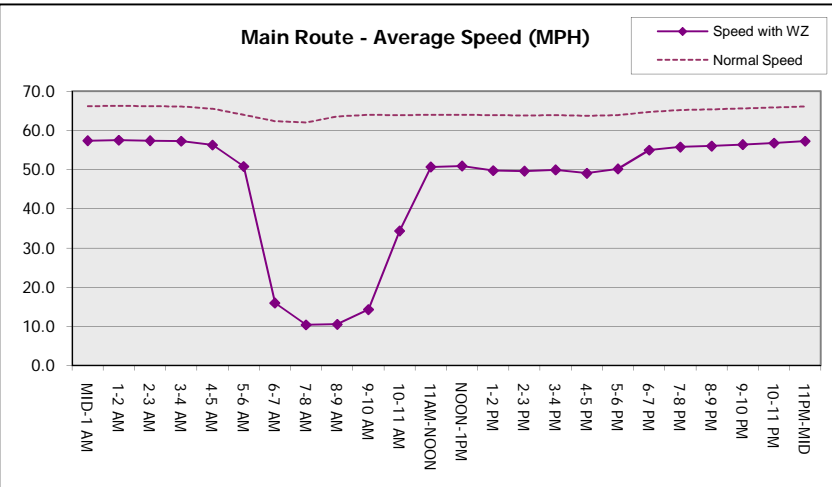
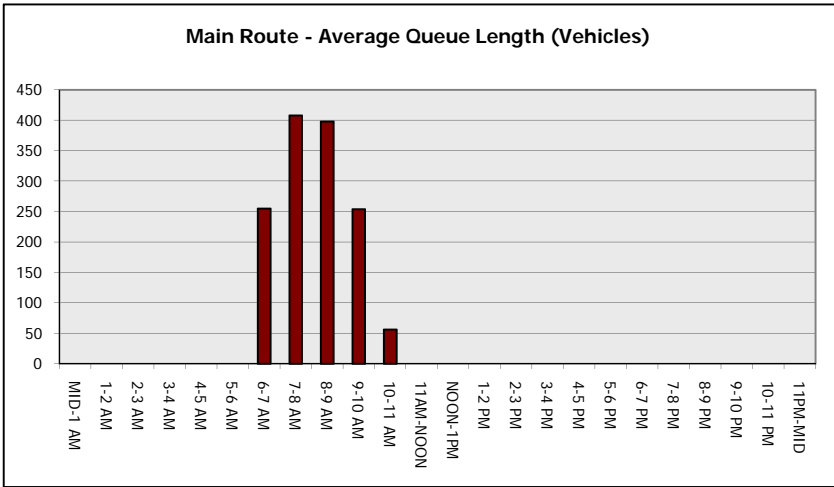
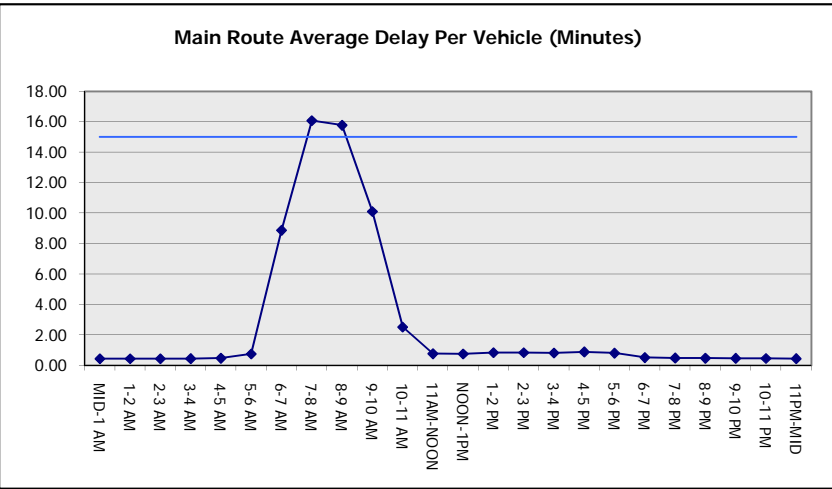
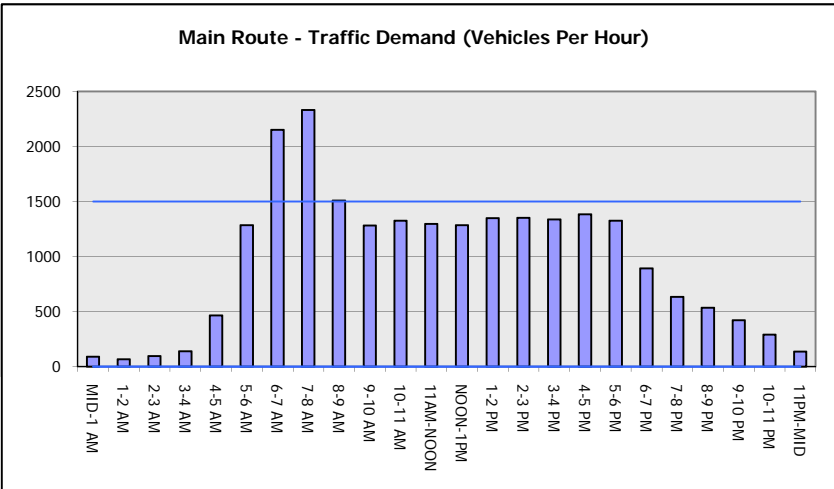
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0113
MAIN ROUTE WITH WORKS	0.0093
'DIVERSION'	0.0013
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$23,173
CONGESTED HOURS PER DAY*	3

*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	183	0.0	1500	183	0	0.44	0	66.1	57.1	44.8
1-2 AM	109	0.0	1500	109	0	0.43	0	66.2	57.3	45.0
2-3 AM	104	0.0	1500	104	0	0.43	0	66.2	57.4	45.1
3-4 AM	113	0.0	1500	113	0	0.43	0	66.2	57.3	45.0
4-5 AM	163	0.0	1500	163	0	0.44	0	66.1	57.2	44.8
5-6 AM	352	0.0	1500	352	0	0.46	0	65.7	56.6	44.1
6-7 AM	736	0.0	1500	736	0	0.49	0	65.0	55.5	42.6
7-8 AM	811	0.0	1500	811	0	0.50	0	64.9	55.2	42.4
8-9 AM	827	0.0	1500	827	0	0.50	0	64.8	55.2	42.3
9-10 AM	869	0.0	1500	869	0	0.51	0	64.8	55.1	42.2
10-11 AM	988	0.0	1500	988	0	0.52	0	64.5	54.7	41.7
11AM-NOON	1056	0.0	1500	1056	0	0.52	0	64.4	54.5	41.5
NOON-1PM	1139	0.0	1500	1139	0	0.56	0	64.3	53.8	40.5
1-2 PM	1289	0.0	1499	1289	0	0.75	0	64.0	50.9	35.8
2-3 PM	1518	0.0	1499	1518	0	1.41	13	63.5	42.9	31.5
3-4 PM	2013	0.0	1500	1911	102	9.30+	260	62.7	15.5	30.8
4-5 PM	2579	0.0	1500	1488	1091	16.03+	409	60.1	10.3	30.8
5-6 PM	2463	0.0	1499	1494	969	16.06+	408	61.3	10.3	30.8
6-7 PM	1625	0.0	1499	1430	195	15.85+	400	63.3	10.4	30.8
7-8 PM	1106	0.0	1499	1106	0	6.41	202	64.3	20.0	34.8
8-9 PM	935	0.0	1500	935	0	0.51	0	64.6	54.8	41.9
9-10 PM	732	0.0	1500	732	0	0.49	0	65.0	55.5	42.7
10-11 PM	466	0.0	1500	466	0	0.47	0	65.5	56.3	43.7
11PM-MID	317	0.0	1500	317	0	0.45	0	65.8	56.7	44.2

+ 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	0.0111
MAIN ROUTE WITH WORKS	0.0086
'DIVERSION'	0.0027

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$30,467
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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