

USH 41: STH 29 TO CTH AAA (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	359	0.0	OFF	359	0	0.00	0	65.7	65.7	65.7	
1-2 AM	257	0.0	OFF	257	0	0.00	0	65.9	65.9	65.9	
2-3 AM	226	0.0	OFF	226	0	0.00	0	66.0	66.0	66.0	
3-4 AM	235	0.0	OFF	235	0	0.00	0	66.0	66.0	66.0	
4-5 AM	507	0.0	OFF	507	0	0.00	0	65.5	65.5	65.5	
5-6 AM	1317	0.0	OFF	1317	0	0.00	0	63.9	63.9	63.9	
6-7 AM	2546	0.0	OFF	2546	0	0.00	0	60.4	60.4	60.4	
7-8 AM	3247	0.0	OFF	3247	0	0.00	0	53.2	53.2	53.2	
8-9 AM	2256	0.0	OFF	2256	0	0.00	0	62.2	62.2	62.2	
9-10 AM	2161	0.0	OFF	2161	0	0.00	0	62.3	62.3	62.3	
10-11 AM	2345	0.0	1499	1896	448	11.18+	299	62.0	18.2	30.8	
11AM-NOON	2577	0.0	1500	1500	1077	15.59+	400	60.1	14.1	30.8	
NOON-1PM	2801	0.0	1500	1500	1301	15.40+	400	57.8	14.1	30.8	
1-2 PM	2899	0.0	1500	1500	1399	15.31+	400	56.8	14.1	30.8	
2-3 PM	3046	0.0	1500	1500	1546	15.17+	400	55.3	14.1	30.8	
3-4 PM	3247	0.0	OFF	3247	0	2.01	104	53.2	38.8	38.8	
4-5 PM	3609	0.0	OFF	3609	0	0.00	0	49.6	49.6	49.6	
5-6 PM	3160	0.0	OFF	3160	0	0.00	0	54.2	54.2	54.2	
6-7 PM	2097	0.0	OFF	2097	0	0.00	0	62.5	62.5	62.5	
7-8 PM	1510	0.0	OFF	1510	0	0.00	0	63.6	63.6	63.6	
8-9 PM	1278	0.0	OFF	1278	0	0.00	0	64.0	64.0	64.0	
9-10 PM	1127	0.0	OFF	1127	0	0.00	0	64.3	64.3	64.3	
10-11 PM	966	0.0	OFF	966	0	0.00	0	64.6	64.6	64.6	
11PM-MID	703	0.0	OFF	703	0	0.00	0	65.1	65.1	65.1	

"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

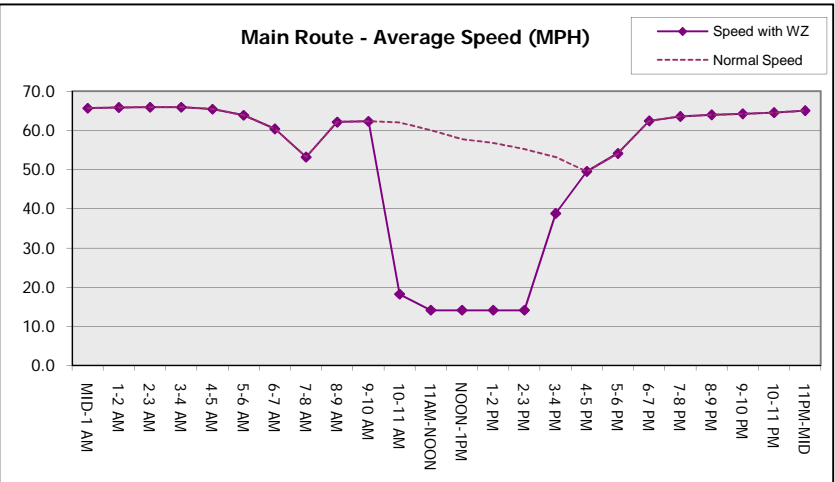
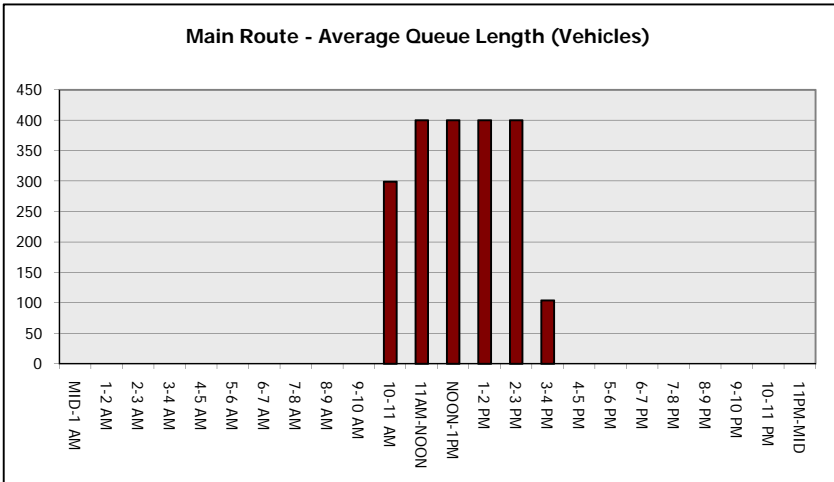
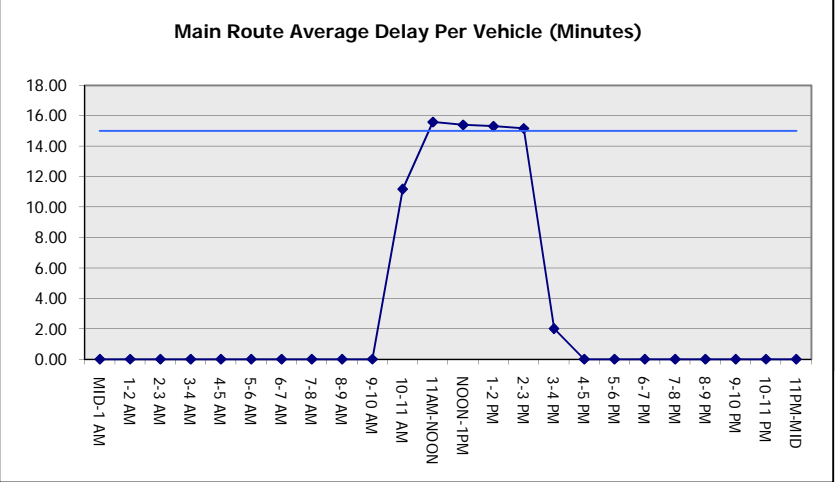
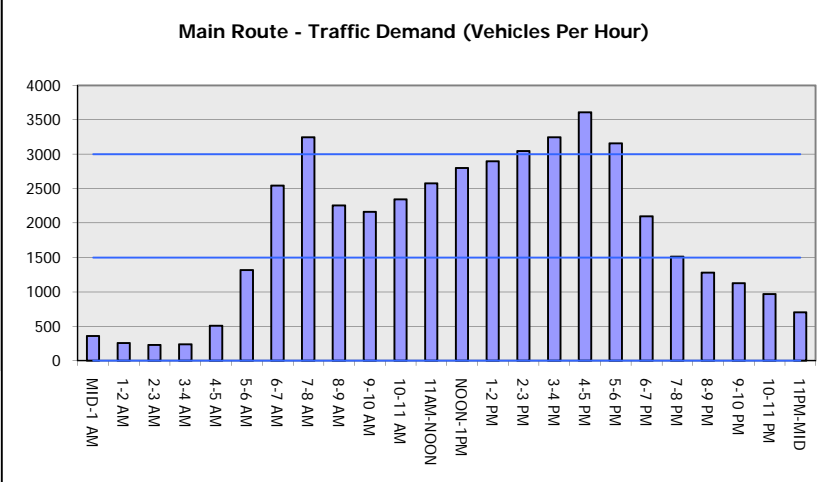
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0340
MAIN ROUTE WITH WORKS	0.0290
'DIVERSION'	0.0102
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$40,186
CONGESTED HOURS PER DAY*	5

*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	354	0.0	OFF	354	0	0.00	0	65.7	65.7	65.7
1-2 AM	220	0.0	OFF	220	0	0.00	0	66.0	66.0	66.0
2-3 AM	219	0.0	OFF	219	0	0.00	0	66.0	66.0	66.0
3-4 AM	216	0.0	OFF	216	0	0.00	0	66.0	66.0	66.0
4-5 AM	339	0.0	OFF	339	0	0.00	0	65.8	65.8	65.8
5-6 AM	878	0.0	OFF	878	0	0.00	0	64.8	64.8	64.8
6-7 AM	2082	0.0	OFF	2082	0	0.00	0	62.5	62.5	62.5
7-8 AM	3323	0.0	OFF	3323	0	0.00	0	52.5	52.5	52.5
8-9 AM	2546	0.0	OFF	2546	0	0.00	0	60.4	60.4	60.4
9-10 AM	2414	0.0	OFF	2414	0	0.00	0	61.8	61.8	61.8
10-11 AM	2570	0.0	1499	1968	602	12.40+	324	60.2	16.8	31.9
11AM-NOON	2805	0.0	1499	1500	1305	15.40+	399	57.8	14.1	30.8
NOON-1PM	2982	0.0	1500	1500	1482	15.24+	400	56.0	14.1	30.8
1-2 PM	3017	0.0	1500	1500	1517	15.20+	400	55.6	14.1	30.8
2-3 PM	3372	0.0	1500	1500	1872	14.84+	400	52.0	14.1	30.8
3-4 PM	3736	0.0	OFF	3736	0	5.39	335	48.3	25.3	25.3
4-5 PM	4196	0.0	OFF	4196	0	4.24	302	43.5	26.5	26.5
5-6 PM	3776	0.0	OFF	3776	0	4.63	288	47.8	27.0	27.0
6-7 PM	2723	0.0	OFF	2723	0	0.34	12	58.6	54.8	54.8
7-8 PM	1955	0.0	OFF	1955	0	0.00	0	62.7	62.7	62.7
8-9 PM	1581	0.0	OFF	1581	0	0.00	0	63.5	63.5	63.5
9-10 PM	1332	0.0	OFF	1332	0	0.00	0	63.9	63.9	63.9
10-11 PM	1007	0.0	OFF	1007	0	0.00	0	64.5	64.5	64.5
11PM-MID	687	0.0	OFF	687	0	0.00	0	65.1	65.1	65.1

"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	0.0369
MAIN ROUTE WITH WORKS	0.0312
'DIVERSION'	0.0120

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$53,040
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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