

**STH 172: USH 41 TO STH 57 (BROWN COUNTY)
NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: STH 32 - STH 57**

OCTOBER

Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY WESTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	167	0.0	47	0.0	1500	167	0	47	0.35	0	60.2	49.9	44.8	22.9	22.9
1-2 AM	123	0.0	35	0.0	1500	123	0	35	0.34	0	60.2	50.1	45.0	23.1	23.1
2-3 AM	116	0.0	32	0.0	1500	116	0	32	0.34	0	60.2	50.1	45.0	23.1	23.1
3-4 AM	149	0.0	42	0.0	1500	149	0	42	0.35	0	60.2	50.0	44.9	23.0	23.0
4-5 AM	448	0.0	127	0.0	1500	448	0	127	0.38	0	60.2	49.1	43.7	21.7	21.7
5-6 AM	1324	0.0	374	0.0	OFF	1324	0	374	0.00	0	60.2	60.2	60.2	18.1	18.1
6-7 AM	2680	0.0	757	0.0	OFF	2680	0	757	0.00	0	60.2	60.2	60.2	12.6	12.6
7-8 AM	3965	0.0	1120	0.0	OFF	3965	0	1120	0.00	0	60.2	60.2	60.2	10.0	10.0
8-9 AM	2529	0.0	715	0.0	OFF	2529	0	715	0.00	0	60.2	60.2	60.2	13.2	13.2
9-10 AM	1946	0.0	549	0.0	OFF	1946	0	549	0.00	0	60.2	60.2	60.2	15.6	15.6
10-11 AM	2157	0.0	609	0.0	OFF	2157	0	609	0.00	0	60.2	60.2	60.2	14.7	14.7
11A-NOON	2264	0.0	639	0.0	OFF	2264	0	639	0.00	0	60.2	60.2	60.2	14.3	14.3
NOON-1PM	2362	0.0	667	0.0	OFF	2362	0	667	0.00	0	60.2	60.2	60.2	13.9	13.9
1-2 PM	2445	0.0	691	0.0	OFF	2445	0	691	0.00	0	60.2	60.2	60.2	13.5	13.5
2-3 PM	2610	0.0	737	0.0	OFF	2610	0	737	0.00	0	60.2	60.2	60.2	12.9	12.9
3-4 PM	2795	0.0	789	0.0	OFF	2795	0	789	0.00	0	60.2	60.2	60.2	12.1	12.1
4-5 PM	3080	0.0	870	0.0	OFF	3080	0	870	0.00	0	60.2	60.2	60.2	11.4	11.4
5-6 PM	3139	0.0	886	0.0	OFF	3139	0	886	0.00	0	60.2	60.2	60.2	11.4	11.4
6-7 PM	2521	0.0	712	0.0	OFF	2521	0	712	0.00	0	60.2	60.2	60.2	13.2	13.2
7-8 PM	1462	0.0	412	0.0	1499	1462	0	412	1.79	28	60.2	29.2	32.8	17.6	17.6
8-9 PM	1113	0.0	314	0.0	1500	1113	0	314	0.47	0	60.2	47.3	41.3	19.0	19.0
9-10 PM	1025	0.0	290	0.0	1500	1025	0	290	0.45	0	60.2	47.5	41.6	19.4	19.4
10-11 PM	727	0.0	205	0.0	1500	727	0	205	0.42	0	60.2	48.3	42.7	20.6	20.6
11PM-MID	434	0.0	122	0.0	1500	434	0	122	0.38	0	60.2	49.2	43.8	21.8	21.8

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

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0113
MAIN ROUTE WITH WORKS	0.0109
DIVERSION	0.0847

PIA: Personal Injury Accidents

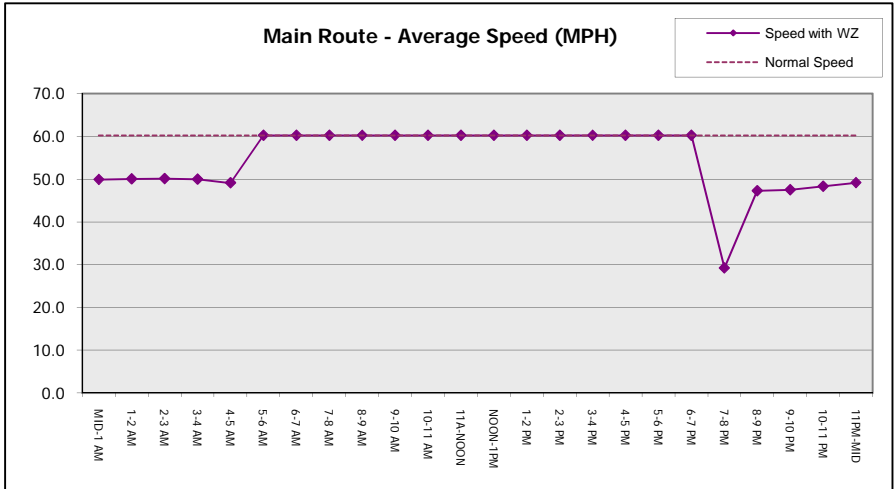
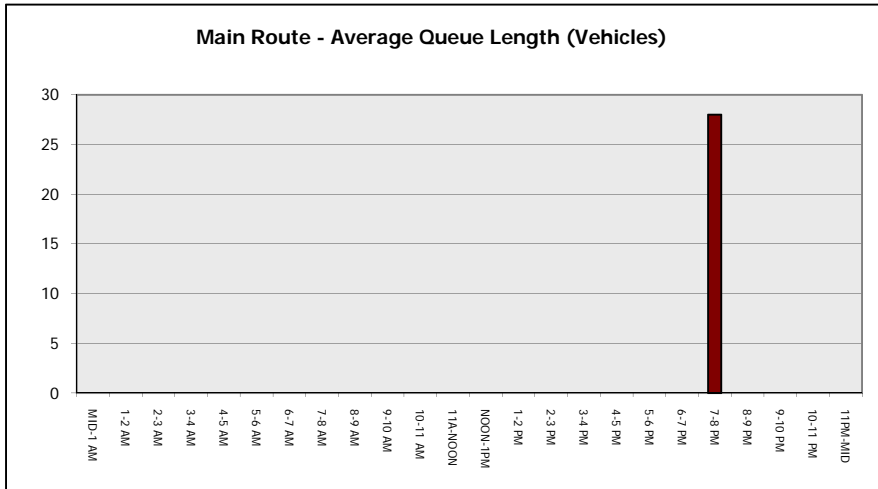
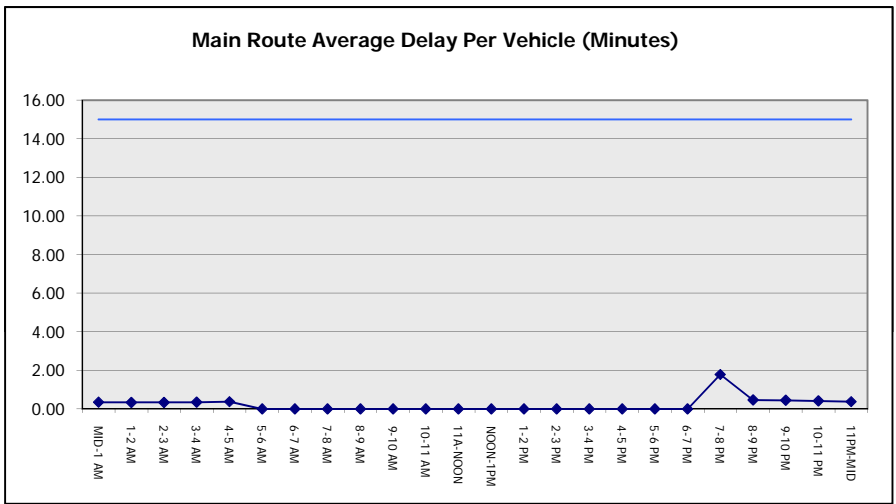
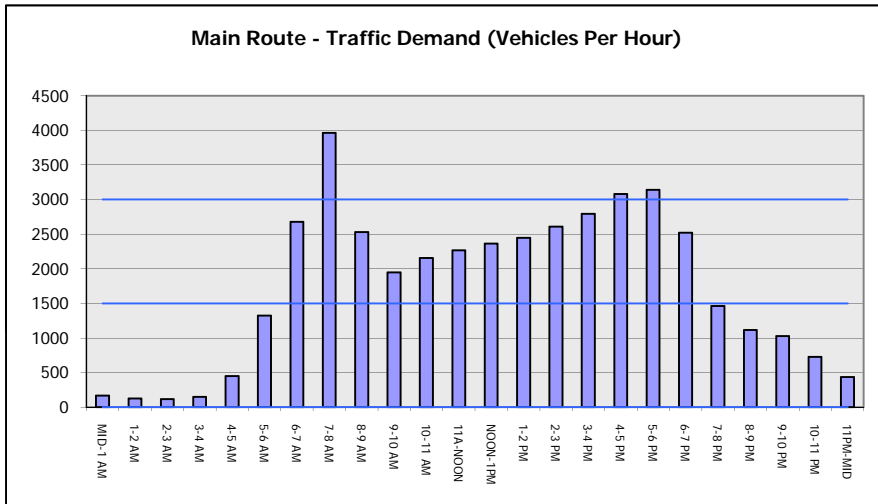
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,089
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



**STH 172: USH 41 TO STH 57 (BROWN COUNTY)
NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: STH 32 - STH 57**

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SUMMARY OF TRAFFIC MODEL OUTPUT
FRIDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH							
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN	
MID-1 AM	264	0.0	74	0.0	1500	264	0	74	0.36	0	60.2	49.7	44.4	21.4	21.4	
1-2 AM	227	0.0	64	0.0	1500	227	0	64	0.36	0	60.2	49.7	44.6	21.7	21.7	
2-3 AM	179	0.0	50	0.0	1500	179	0	50	0.35	0	60.2	49.9	44.8	22.1	22.1	
3-4 AM	144	0.0	41	0.0	1500	144	0	41	0.35	0	60.2	50.0	44.9	22.4	22.4	
4-5 AM	232	0.0	66	0.0	1500	232	0	66	0.36	0	60.2	49.7	44.5	21.7	21.7	
5-6 AM	595	0.0	167	0.0	OFF	595	0	167	0.00	0	60.2	60.2	60.2	18.6	18.6	
6-7 AM	1466	0.0	414	0.0	OFF	1466	0	414	0.00	0	60.2	60.2	60.2	11.6	11.6	
7-8 AM	1988	0.0	561	0.0	OFF	1988	0	561	0.00	0	60.2	60.2	60.2	9.9	9.9	
8-9 AM	1867	0.0	527	0.0	OFF	1867	0	527	0.00	0	60.2	60.2	60.2	10.3	10.3	
9-10 AM	1606	0.0	453	0.0	OFF	1606	0	453	0.00	0	60.2	60.2	60.2	11.2	11.2	
10-11 AM	1879	0.0	531	0.0	OFF	1879	0	531	0.00	0	60.2	60.2	60.2	10.3	10.3	
11A-NOON	2153	0.0	608	0.0	OFF	2153	0	608	0.00	0	60.2	60.2	60.2	9.4	9.4	
NOON-1PM	2539	0.0	717	0.0	OFF	2539	0	717	0.00	0	60.2	60.2	60.2	8.1	8.1	
1-2 PM	2586	0.0	730	0.0	OFF	2586	0	730+	0.00	0	60.2	60.2	60.2	8.0	8.0	
2-3 PM	2875	0.0	812	0.0	OFF	2875	0	812+	0.00	0	60.2	60.2	60.2	7.3	7.3	
3-4 PM	3774	0.0	1066	0.0	OFF	3774	0	1066+	0.00	0	60.2	60.2	60.2	6.8	6.8	
4-5 PM	4383	0.0	1238	0.0	OFF	4383	0	1238+	0.00	0	60.2	60.2	60.2	6.8	6.8	
5-6 PM	3716	0.0	1050	0.0	OFF	3716	0	1050+	0.00	0	60.2	60.2	60.2	6.8	6.8	
6-7 PM	2566	0.0	724	0.0	OFF	2566	0	724+	0.00	0	60.2	60.2	60.2	8.0	8.0	
7-8 PM	1690	0.0	477	0.0	1499	1690	0	477	5.49	130	60.2	14.3	30.8	10.9	10.9	
8-9 PM	1444	0.0	408	0.0	1499	1444	0	408	7.26	166	60.2	11.5	30.8	11.7	11.7	
9-10 PM	1552	0.0	438	0.0	1500	1552	0	438	7.54	173	60.2	11.2	30.8	11.4	11.4	
10-11 PM	1005	0.0	284	0.0	1500	1005	0	284	1.33	44	60.2	33.7	39.4	15.2	15.2	
11PM-MID	708	0.0	200	0.0	1500	708	0	200	0.42	0	60.2	48.4	42.7	17.7	17.7	

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

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0112
MAIN ROUTE WITH WORKS	0.0107
DIVERSION	0.0845

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$8,218
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

