

USH 41: IH 43 TO STH 29 (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	186	0.0	OFF	186	0	0.00	0	66.0	66.0	66.0	
1-2 AM	114	0.0	OFF	114	0	0.00	0	66.2	66.2	66.2	
2-3 AM	111	0.0	OFF	111	0	0.00	0	66.2	66.2	66.2	
3-4 AM	169	0.0	OFF	169	0	0.00	0	66.1	66.1	66.1	
4-5 AM	484	0.0	OFF	484	0	0.00	0	65.5	65.5	65.5	
5-6 AM	1261	0.0	OFF	1261	0	0.00	0	64.0	64.0	64.0	
6-7 AM	2341	0.0	OFF	2341	0	0.00	0	62.0	62.0	62.0	
7-8 AM	2902	0.0	OFF	2902	0	0.00	0	56.8	56.8	56.8	
8-9 AM	1999	0.0	OFF	1999	0	0.00	0	62.7	62.7	62.7	
9-10 AM	1938	0.0	OFF	1938	0	0.00	0	62.8	62.8	62.8	
10-11 AM	2049	0.0	1499	1995	55	9.23+	259	62.6	12.3	30.8	
11AM-NOON	2153	0.0	1500	1475	678	16.85+	428	62.3	8.7	30.8	
NOON-1PM	2235	0.0	1499	1493	742	16.90+	429	62.2	8.7	30.8	
1-2 PM	2274	0.0	1499	1494	779	16.90+	429	62.2	8.7	30.8	
2-3 PM	2299	0.0	1499	1495	804	16.90+	430	62.1	8.7	30.8	
3-4 PM	2352	0.0	OFF	2352	0	1.07	62	62.0	39.9	39.9	
4-5 PM	2375	0.0	OFF	2375	0	0.00	0	62.0	62.0	62.0	
5-6 PM	2230	0.0	OFF	2230	0	0.00	0	62.2	62.2	62.2	
6-7 PM	1740	0.0	OFF	1740	0	0.00	0	63.2	63.2	63.2	
7-8 PM	1171	0.0	OFF	1171	0	0.00	0	64.2	64.2	64.2	
8-9 PM	898	0.0	OFF	898	0	0.00	0	64.7	64.7	64.7	
9-10 PM	747	0.0	OFF	747	0	0.00	0	65.0	65.0	65.0	
10-11 PM	616	0.0	OFF	616	0	0.00	0	65.3	65.3	65.3	
11PM-MID	426	0.0	OFF	426	0	0.00	0	65.6	65.6	65.6	

"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

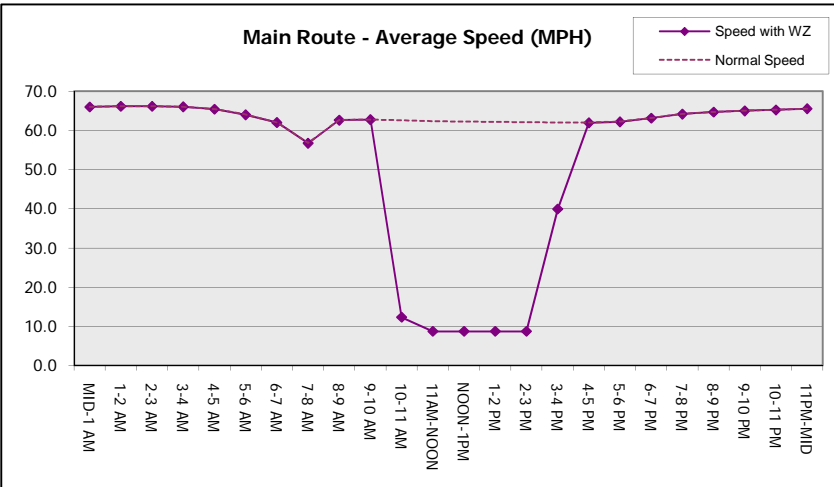
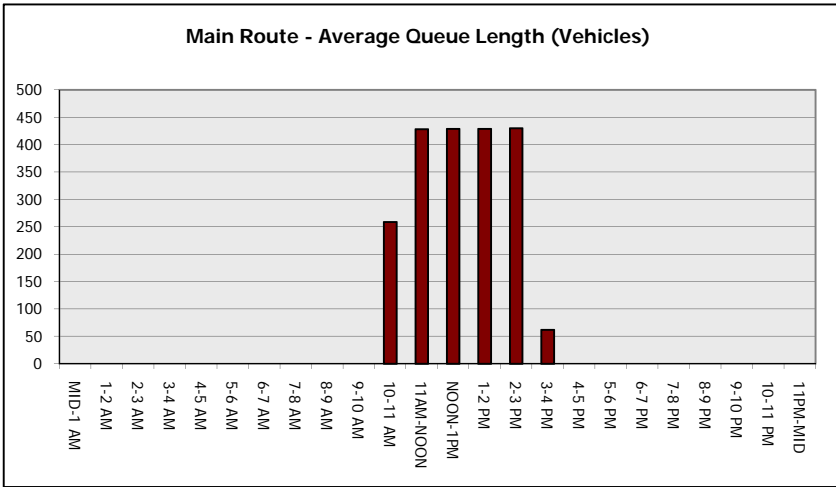
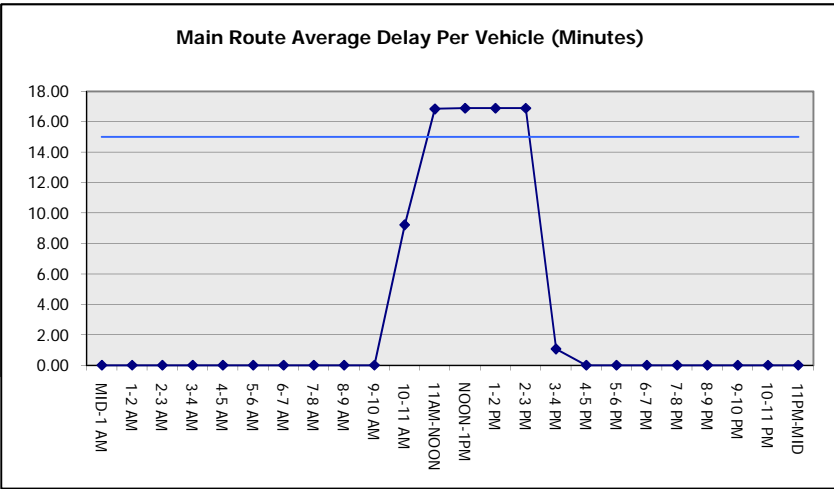
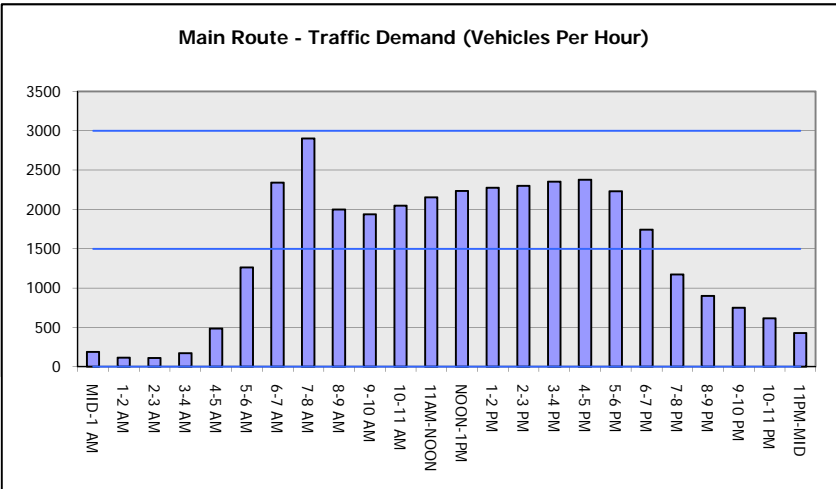
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0112
MAIN ROUTE WITH WORKS	0.0097
'DIVERSION'	0.0023
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$37,854
CONGESTED HOURS PER DAY*	5

*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	310	0.0	OFF	310	0	0.00	0	65.8	65.8	65.8
1-2 AM	190	0.0	OFF	190	0	0.00	0	66.0	66.0	66.0
2-3 AM	160	0.0	OFF	160	0	0.00	0	66.1	66.1	66.1
3-4 AM	159	0.0	OFF	159	0	0.00	0	66.1	66.1	66.1
4-5 AM	236	0.0	OFF	236	0	0.00	0	66.0	66.0	66.0
5-6 AM	620	0.0	OFF	620	0	0.00	0	65.2	65.2	65.2
6-7 AM	1197	0.0	OFF	1197	0	0.00	0	64.1	64.1	64.1
7-8 AM	1390	0.0	OFF	1390	0	0.00	0	63.8	63.8	63.8
8-9 AM	1375	0.0	OFF	1375	0	0.00	0	63.8	63.8	63.8
9-10 AM	1627	0.0	OFF	1627	0	0.00	0	63.3	63.3	63.3
10-11 AM	1943	0.0	1499	1943	0	7.15	203	62.8	14.5	30.8
11AM-NOON	2206	0.0	1499	1498	708	16.90+	429	62.3	8.7	30.8
NOON-1PM	2387	0.0	1499	1498	889	16.90+	430	61.9	8.7	30.8
1-2 PM	2471	0.0	1499	1498	973	16.88+	430	61.2	8.7	30.8
2-3 PM	2942	0.0	1499	1505	1437	17.03+	441	56.4	8.6	30.8
3-4 PM	3368	0.0	OFF	3368	0	2.55	155	52.0	24.7	24.7
4-5 PM	3683	0.0	OFF	3683	0	0.00	0	48.7	48.7	48.7
5-6 PM	3317	0.0	OFF	3317	0	0.00	0	52.5	52.5	52.5
6-7 PM	2470	0.0	OFF	2470	0	0.00	0	61.2	61.2	61.2
7-8 PM	1765	0.0	OFF	1765	0	0.00	0	63.1	63.1	63.1
8-9 PM	1500	0.0	OFF	1500	0	0.00	0	63.6	63.6	63.6
9-10 PM	1191	0.0	OFF	1191	0	0.00	0	64.1	64.1	64.1
10-11 PM	923	0.0	OFF	923	0	0.00	0	64.6	64.6	64.6
11PM-MID	644	0.0	OFF	644	0	0.00	0	65.2	65.2	65.2

"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	0.0
(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	0
(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	0.0121
MAIN ROUTE WITH WORKS	0.0103
'DIVERSION'	0.0030

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$42,050
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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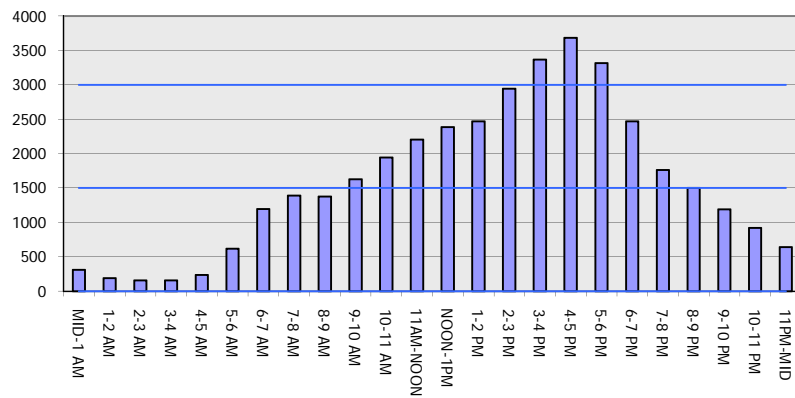
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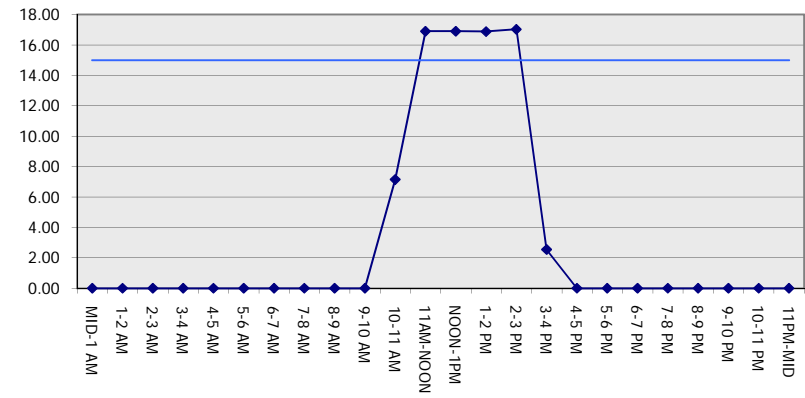
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY NORTHBOUND DIRECTION

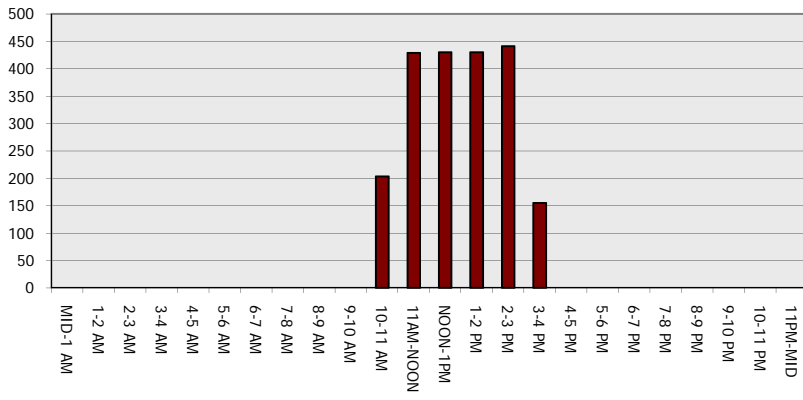
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

