

<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)</b> <b>NIGHTTIME 1 LANE CLOSURE</b> <b>DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>AUGUST</b>
	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		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	233	0.0	90	0.0	3000	233	0	90	0.36	0	70.2	64.4	49.7	31.2	31.2
1-2 AM	130	0.0	60	0.0	3000	130	0	60	0.36	0	70.2	64.4	49.7	32.0	32.0
2-3 AM	115	0.0	58	0.0	3000	115	0	58	0.36	0	70.2	64.4	49.7	32.0	32.0
3-4 AM	171	0.0	54	0.0	3000	171	0	54	0.36	0	70.2	64.4	49.7	32.1	32.1
4-5 AM	354	0.0	114	0.0	3000	354	0	114	0.36	0	70.2	64.4	49.7	30.5	30.5
5-6 AM	917	0.0	232	0.0	OFF	917	0	232	0.00	0	69.6	69.6	69.6	27.4	27.4
6-7 AM	1377	0.0	552	0.0	OFF	1377	0	552	0.00	0	69.0	69.0	69.0	19.7	19.7
7-8 AM	1669	0.0	645	0.0	OFF	1669	0	645	0.00	0	68.7	68.7	68.7	17.9	17.9
8-9 AM	1555	0.0	546	0.0	OFF	1555	0	546	0.00	0	68.8	68.8	68.8	19.8	19.8
9-10 AM	1726	0.0	596	0.0	OFF	1726	0	596	0.00	0	68.6	68.6	68.6	18.8	18.8
10-11 AM	2012	0.0	708	0.0	OFF	2012	0	708	0.00	0	68.2	68.2	68.2	16.7	16.7
11A-NOON	2199	0.0	807	0.0	OFF	2199	0	807+	0.00	0	68.0	68.0	68.0	14.8	14.8
NOON-1PM	2474	0.0	883	0.0	OFF	2474	0	883+	0.00	0	67.7	67.7	67.7	13.2	13.2
1-2 PM	2449	0.0	954	0.0	OFF	2449	0	954+	0.00	0	67.7	67.7	67.7	12.6	12.6
2-3 PM	2654	0.0	1081	0.0	OFF	2654	0	1081+	0.00	0	67.4	67.4	67.4	11.2	11.2
3-4 PM	2869	0.0	1202	0.0	OFF	2869	0	1202+	0.00	0	67.2	67.2	67.2	11.2	11.2
4-5 PM	2988	0.0	1227	0.0	OFF	2988	0	1227+	0.00	0	67.0	67.0	67.0	11.2	11.2
5-6 PM	2634	0.0	1051	0.0	OFF	2634	0	1051+	0.00	0	67.4	67.4	67.4	11.4	11.4
6-7 PM	1875	0.0	750	0.0	OFF	1875	0	750	0.00	0	68.4	68.4	68.4	15.9	15.9
7-8 PM	1412	0.0	610	0.0	3000	1412	0	610	0.34	0	69.0	63.6	49.7	18.6	18.6
8-9 PM	1205	0.0	524	0.0	3000	1205	0	524	0.35	0	69.2	63.8	49.7	20.2	20.2
9-10 PM	1042	0.0	430	0.0	3000	1042	0	430	0.35	0	69.4	63.9	49.7	22.1	22.1
10-11 PM	753	0.0	331	0.0	3000	753	0	331	0.35	0	69.8	64.1	49.7	24.7	24.7
11PM-MID	468	0.0	248	0.0	3000	468	0	248	0.36	0	70.2	64.4	49.7	27.0	27.0

"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	0.0264
MAIN ROUTE WITH WORKS	0.0260
DIVERSION	0.1307

PIA: Personal Injury Accidents

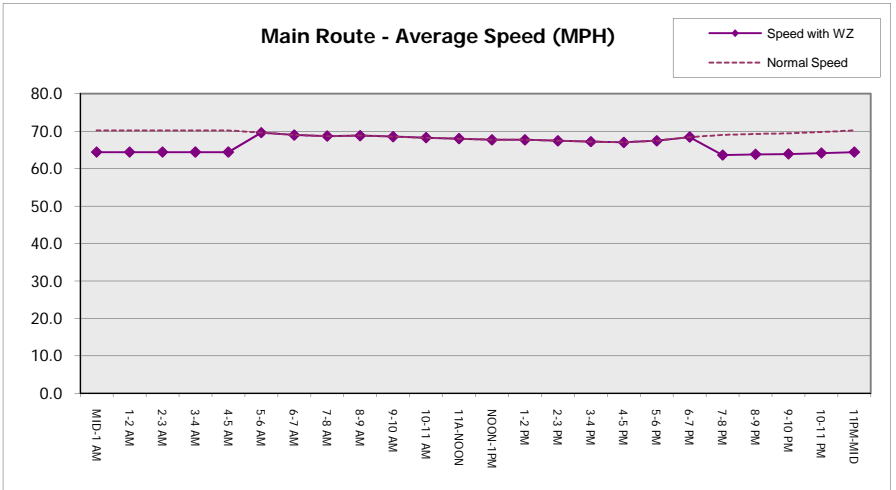
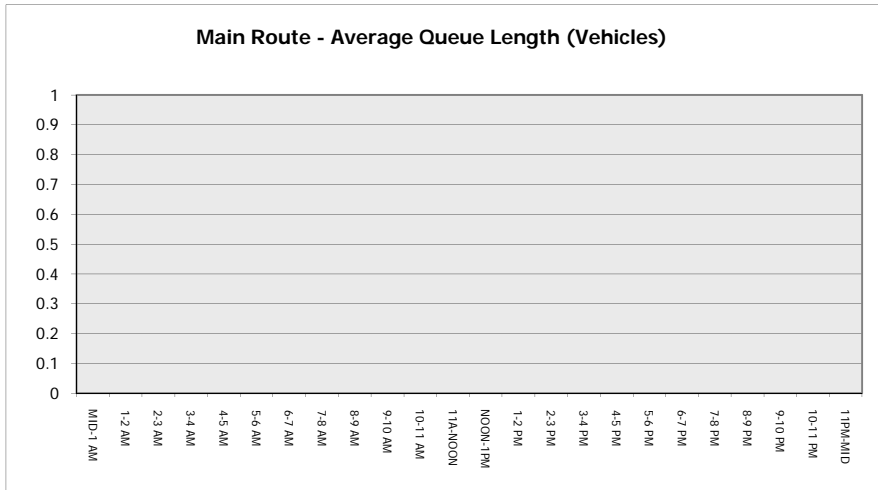
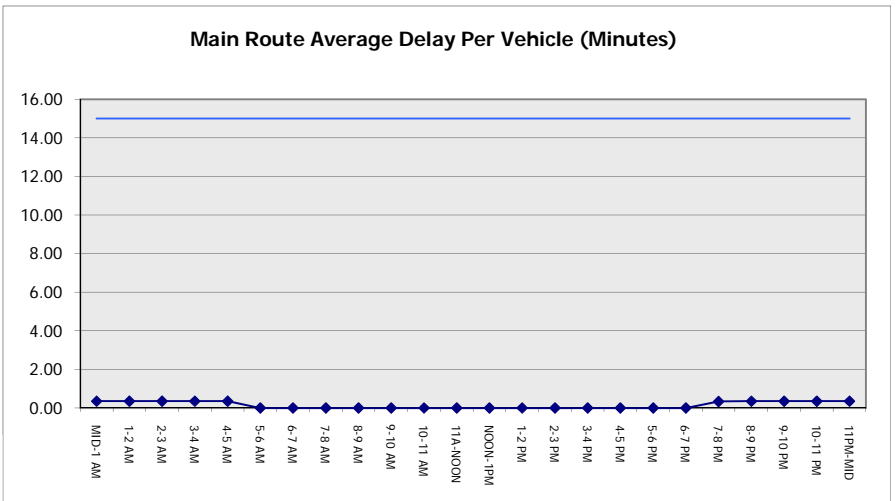
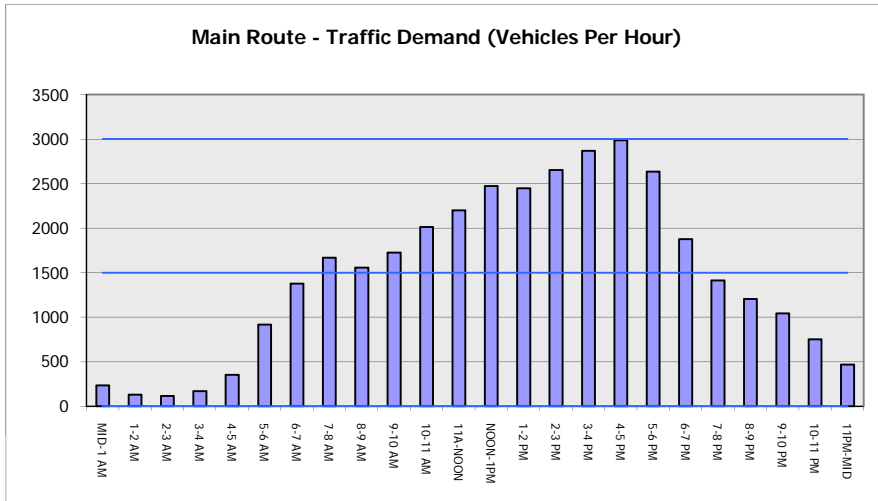
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$432
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
 NIGHTTIME 1 LANE CLOSURE  
 DIVERSION ROUTE: BUS 51 - STH 52**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY SOUTHBOUND DIRECTION**



<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)</b> <b>NIGHTTIME 1 LANE CLOSURE</b> <b>DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>AUGUST</b> Analyzed for 2009 Construction Season
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<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
FRIDAY	NORTHBOUND 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	329	0.0	74	0.0	3000	329	0	74	0.36	0	70.2	64.4	49.7	31.5	31.5
1-2 AM	203	0.0	61	0.0	3000	203	0	61	0.36	0	70.2	64.4	49.7	31.9	31.9
2-3 AM	168	0.0	55	0.0	3000	168	0	55	0.36	0	70.2	64.4	49.7	32.1	32.1
3-4 AM	195	0.0	65	0.0	3000	195	0	65	0.36	0	70.2	64.4	49.7	31.8	31.8
4-5 AM	281	0.0	140	0.0	3000	281	0	140	0.36	0	70.2	64.4	49.7	29.8	29.8
5-6 AM	756	0.0	361	0.0	OFF	756	0	361	0.00	0	69.8	69.8	69.8	24.0	24.0
6-7 AM	1648	0.0	759	0.0	OFF	1648	0	759	0.00	0	68.7	68.7	68.7	15.7	15.7
7-8 AM	2236	0.0	978	0.0	OFF	2236	0	978+	0.00	0	67.9	67.9	67.9	12.4	12.4
8-9 AM	1784	0.0	708	0.0	OFF	1784	0	708	0.00	0	68.5	68.5	68.5	16.7	16.7
9-10 AM	2031	0.0	741	0.0	OFF	2031	0	741	0.00	0	68.2	68.2	68.2	16.0	16.0
10-11 AM	2456	0.0	806	0.0	OFF	2456	0	806+	0.00	0	67.7	67.7	67.7	14.8	14.8
11A-NOON	2684	0.0	832	0.0	OFF	2684	0	832+	0.00	0	67.4	67.4	67.4	14.3	14.3
NOON-1PM	2723	0.0	850	0.0	OFF	2723	0	850+	0.00	0	67.4	67.4	67.4	13.8	13.8
1-2 PM	2939	0.0	904	0.0	OFF	2939	0	904+	0.00	0	67.1	67.1	67.1	12.9	12.9
2-3 PM	3357	0.0	980	0.0	OFF	3357	0	980+	0.00	0	66.6	66.6	66.6	12.4	12.4
3-4 PM	3466	0.0	1066	0.0	OFF	3466	0	1066+	0.00	0	66.4	66.4	66.4	11.2	11.2
4-5 PM	3552	0.0	1059	0.0	OFF	3552	0	1059+	0.00	0	66.3	66.3	66.3	11.3	11.3
5-6 PM	3415	0.0	970	0.0	OFF	3415	0	970+	0.00	0	66.5	66.5	66.5	12.5	12.5
6-7 PM	2948	0.0	770	0.0	OFF	2948	0	770	0.00	0	67.1	67.1	67.1	15.5	15.5
7-8 PM	2636	0.0	547	0.0	3000	2636	0	547	0.49	0	67.4	60.4	43.7	19.8	19.8
8-9 PM	2204	0.0	379	0.0	3000	2204	0	379	0.33	0	68.0	63.0	49.7	23.5	23.5
9-10 PM	1726	0.0	290	0.0	3000	1726	0	290	0.34	0	68.6	63.3	49.7	25.8	25.8
10-11 PM	1141	0.0	220	0.0	3000	1141	0	220	0.35	0	69.3	63.8	49.7	27.7	27.7
11PM-MID	867	0.0	159	0.0	3000	867	0	159	0.35	0	69.7	64.1	49.7	29.3	29.3

"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 (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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 (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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	0.0342
MAIN ROUTE WITH WORKS	0.0336
DIVERSION	0.1308

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$782
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
 NIGHTTIME 1 LANE CLOSURE  
 DIVERSION ROUTE: BUS 51 - STH 52**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY NORTHBOUND DIRECTION**

