

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) CONTINUOUS (24 HOUR) 1 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	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		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	3000	917	0	232	0.35	0	69.6	64.0	49.7	27.4	27.4
6-7 AM	1377	0.0	552	0.0	3000	1377	0	552	0.34	0	69.0	63.7	49.7	19.7	19.7
7-8 AM	1669	0.0	645	0.0	3000	1669	0	645	0.34	0	68.7	63.4	49.7	17.9	17.9
8-9 AM	1555	0.0	546	0.0	3000	1555	0	546	0.34	0	68.8	63.5	49.7	19.8	19.8
9-10 AM	1726	0.0	596	0.0	3000	1726	0	596	0.34	0	68.6	63.3	49.7	18.8	18.8
10-11 AM	2012	0.0	708	0.0	3000	2012	0	708	0.33	0	68.2	63.1	49.7	16.7	16.7
11A-NOON	2199	0.0	807	0.0	3000	2199	0	807+	0.33	0	68.0	63.0	49.7	14.8	14.8
NOON-1PM	2474	0.0	883	0.0	3000	2474	0	883+	0.38	0	67.7	61.9	47.4	13.2	13.2
1-2 PM	2449	0.0	954	0.0	3000	2449	0	954+	0.37	0	67.7	62.2	48.1	12.6	12.6
2-3 PM	2654	0.0	1081	0.0	3000	2654	0	1081+	0.50	0	67.4	60.2	43.4	11.2	11.2
3-4 PM	2869	0.0	1202	0.0	2999	2869	0	1202+	0.64	0	67.2	58.2	39.4	11.2	11.2
4-5 PM	2988	0.0	1227	0.0	2999	2988	0	1227+	0.77	3	67.0	56.6	37.5	11.2	11.2
5-6 PM	2634	0.0	1051	0.0	3000	2634	0	1051+	0.49	0	67.4	60.4	43.8	11.4	11.4
6-7 PM	1875	0.0	750	0.0	3000	1875	0	750	0.34	0	68.4	63.2	49.7	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

+ 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	0.0240
DIVERSION	0.1307

PIA: Personal Injury Accidents

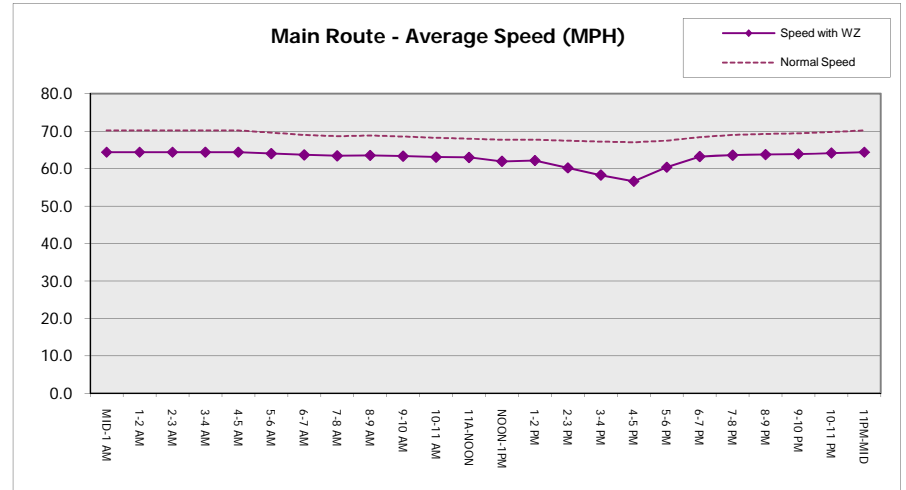
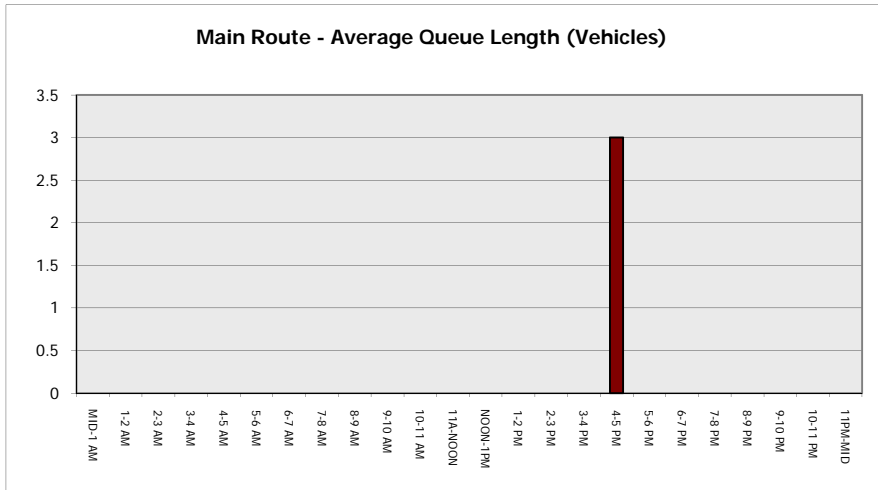
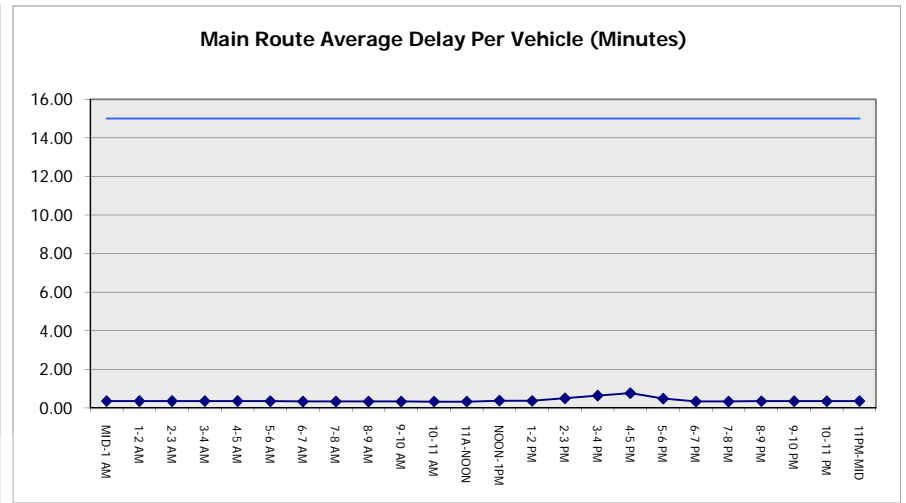
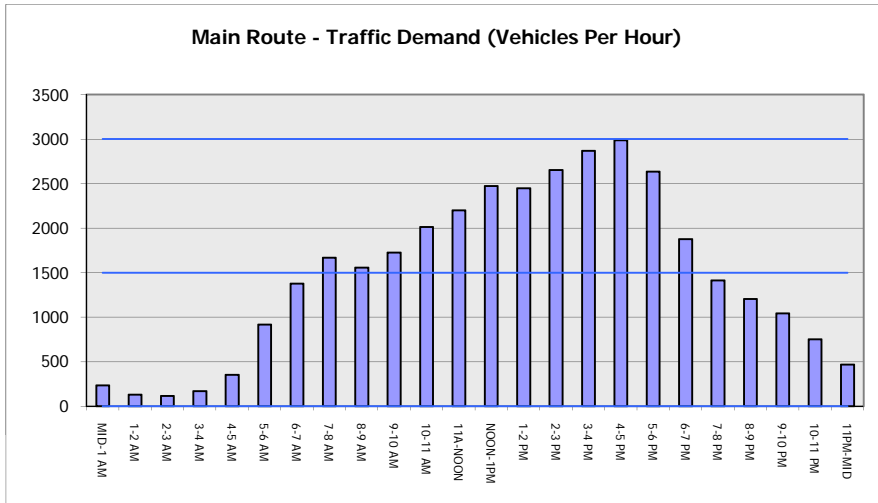
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$3,570
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 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



USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) CONTINUOUS (24 HOUR) 1 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	AUGUST Analyzed for 2009 Construction Season
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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		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	3000	756	0	361	0.35	0	69.8	64.1	49.7	24.0	24.0
6-7 AM	1648	0.0	759	0.0	3000	1648	0	759	0.34	0	68.7	63.4	49.7	15.7	15.7
7-8 AM	2236	0.0	978	0.0	3000	2236	0	978+	0.33	0	67.9	62.9	49.7	12.4	12.4
8-9 AM	1784	0.0	708	0.0	3000	1784	0	708	0.34	0	68.5	63.3	49.7	16.7	16.7
9-10 AM	2031	0.0	741	0.0	3000	2031	0	741	0.33	0	68.2	63.1	49.7	16.0	16.0
10-11 AM	2456	0.0	806	0.0	3000	2456	0	806+	0.37	0	67.7	62.1	47.9	14.8	14.8
11A-NOON	2684	0.0	832	0.0	3000	2684	0	832+	0.52	0	67.4	59.9	42.8	14.3	14.3
NOON-1PM	2723	0.0	850	0.0	2999	2723	0	850+	0.55	0	67.4	59.6	42.0	13.8	13.8
1-2 PM	2939	0.0	904	0.0	2999	2939	0	904+	0.72	2	67.1	57.3	38.4	12.9	13.0
2-3 PM	3357	0.0	980	0.0	3000	3357	0	980+	3.47	171	66.6	36.6	37.3	12.4	12.4
3-4 PM	3466	0.0	1066	0.0	3000	3466	0	1066+	11.11	593	66.4	18.3	37.3	11.2	11.2
4-5 PM	3552	0.0	1059	0.0	3000	3552	0	1059+	20.63	1109	66.3	12.2	37.3	11.3	11.9
5-6 PM	3415	0.0	970	0.0	2999	3366	49	1019+	29.64	1597	66.5	10.5	37.3	12.5	13.7
6-7 PM	2948	0.0	770	0.0	2999	2714	234	1004+	30.39	1635	67.1	10.4	37.3	15.5	13.9
7-8 PM	2636	0.0	547	0.0	2999	2425	212	758	22.18	1189	67.4	11.9	37.3	19.8	16.6
8-9 PM	2204	0.0	379	0.0	2999	2188	16	394	8.40	505	68.0	22.5	41.9	23.5	23.1
9-10 PM	1726	0.0	290	0.0	3000	1726	0	290	0.38	2	68.6	62.8	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

+ 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	0.0342
MAIN ROUTE WITH WORKS	0.0308
DIVERSION	0.1357

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$94,618
CONGESTED HOURS PER DAY*	4

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 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

