

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) CONTINUOUS (24 HOUR) 2 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	1500	233	0	90	0.50	0	70.2	62.4	44.5	31.2	31.2
1-2 AM	130	0.0	60	0.0	1500	130	0	60	0.49	0	70.2	62.5	45.0	32.0	32.0
2-3 AM	115	0.0	58	0.0	1500	115	0	58	0.49	0	70.2	62.6	45.0	32.0	32.0
3-4 AM	171	0.0	54	0.0	1500	171	0	54	0.49	0	70.2	62.5	44.8	32.1	32.1
4-5 AM	354	0.0	114	0.0	1500	354	0	114	0.52	0	70.2	62.2	44.1	30.5	30.5
5-6 AM	917	0.0	232	0.0	1500	917	0	232	0.58	0	69.6	60.9	42.0	27.4	27.4
6-7 AM	1377	0.0	552	0.0	1499	1377	0	552	0.93	0	69.0	56.1	33.7	19.7	19.7
7-8 AM	1669	0.0	645	0.0	1499	1669	0	645	3.77	78	68.7	35.8	30.8	17.9	17.9
8-9 AM	1555	0.0	546	0.0	1499	1555	0	546	8.51	194	68.8	22.4	30.8	19.8	19.8
9-10 AM	1726	0.0	596	0.0	1500	1726	0	596	13.11	323	68.6	16.4	30.8	18.8	18.8
10-11 AM	2012	0.0	708	0.0	1500	1855	157	865+	24.93	636	68.2	9.7	30.8	16.7	14.0
11A-NOON	2199	0.0	807	0.0	1500	1500	699	1506+	32.32	818	68.0	7.7	30.8	14.8	11.2
NOON-1PM	2474	0.0	883	0.0	1500	1500	974	1857+	32.30	818	67.7	7.7	30.8	13.2	11.2
1-2 PM	2449	0.0	954	0.0	1500	1500	949	1903+	32.31	818	67.7	7.7	30.8	12.6	11.2
2-3 PM	2654	0.0	1081	0.0	1500	1500	1154	2235+	32.29	818	67.4	7.7	30.8	11.2	11.2
3-4 PM	2869	0.0	1202	0.0	1500	1500	1369	2571+	32.27	818	67.2	7.7	30.8	11.2	11.2
4-5 PM	2988	0.0	1227	0.0	1500	1500	1488	2715+	32.26	818	67.0	7.7	30.8	11.2	11.2
5-6 PM	2634	0.0	1051	0.0	1500	1500	1134	2185+	32.29	818	67.4	7.7	30.8	11.4	11.2
6-7 PM	1875	0.0	750	0.0	1500	1460	414	1165+	31.96	808	68.4	7.8	30.8	15.9	11.3
7-8 PM	1412	0.0	610	0.0	1500	1190	222	833+	24.24	615	69.0	9.9	30.8	18.6	14.4
8-9 PM	1205	0.0	524	0.0	1499	1199	6	530	12.45	314	69.2	17.1	31.4	20.2	20.1
9-10 PM	1042	0.0	430	0.0	1500	1042	0	430	1.40	29	69.4	51.7	40.2	22.1	22.2
10-11 PM	753	0.0	331	0.0	1500	753	0	331	0.56	0	69.8	61.3	42.5	24.7	24.7
11PM-MID	468	0.0	248	0.0	1500	468	0	248	0.53	0	70.2	62.0	43.7	27.0	27.0

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (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	0.0264
MAIN ROUTE WITH WORKS	0.0182
DIVERSION	0.2120

PIA: Personal Injury Accidents

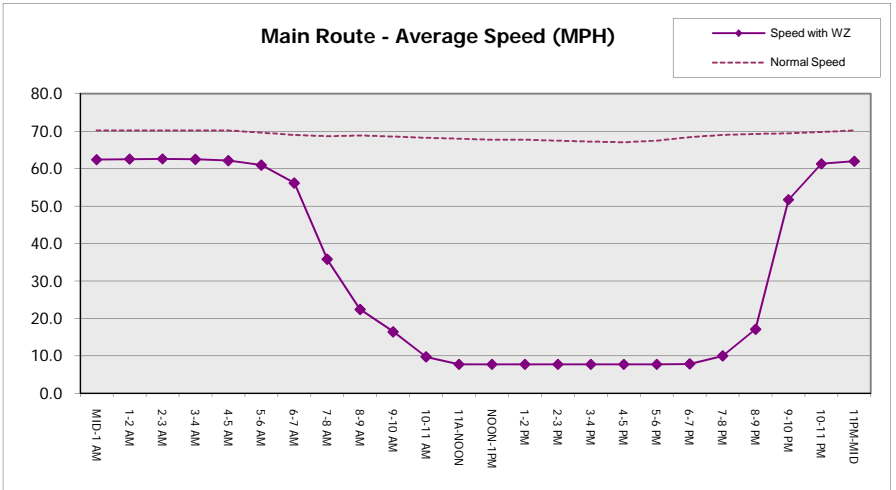
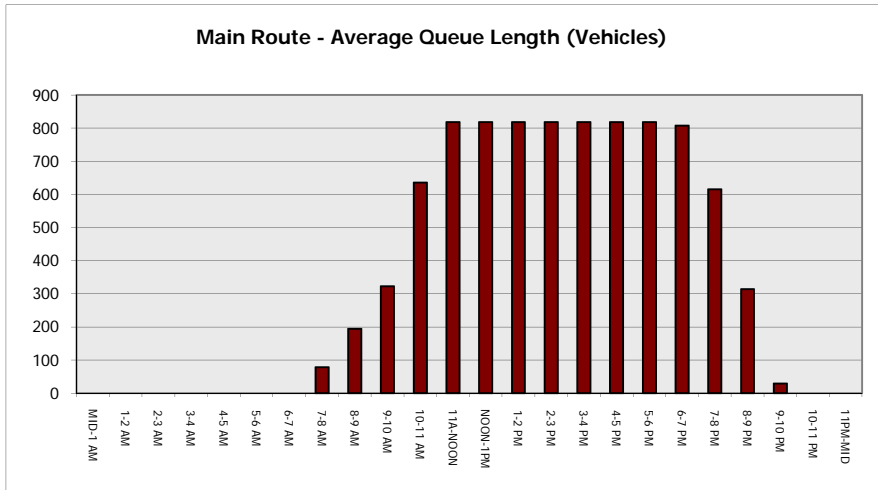
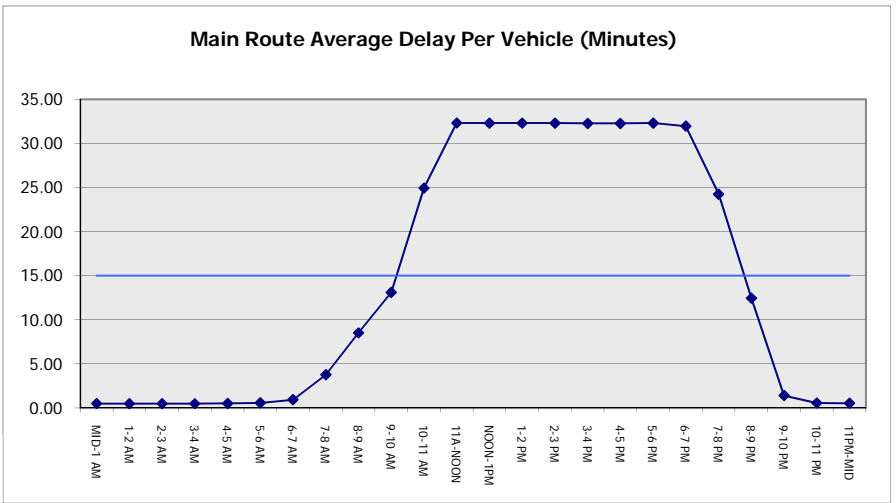
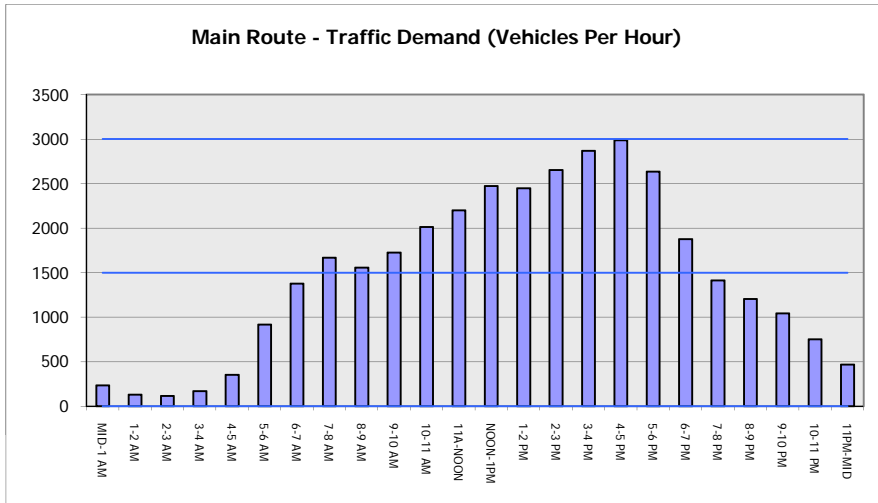
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$198,332
CONGESTED HOURS PER DAY*	10

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 2 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) 2 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		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	329	0.0	74	0.0	1500	329	0	74	0.51	0	70.2	62.2	44.2	31.5	31.5
1-2 AM	203	0.0	61	0.0	1500	203	0	61	0.50	0	70.2	62.4	44.6	31.9	31.9
2-3 AM	168	0.0	55	0.0	1500	168	0	55	0.49	0	70.2	62.5	44.8	32.1	32.1
3-4 AM	195	0.0	65	0.0	1500	195	0	65	0.50	0	70.2	62.5	44.7	31.8	31.8
4-5 AM	281	0.0	140	0.0	1500	281	0	140	0.51	0	70.2	62.3	44.3	29.8	29.8
5-6 AM	756	0.0	361	0.0	1500	756	0	361	0.56	0	69.8	61.3	42.5	24.0	24.0
6-7 AM	1648	0.0	759	0.0	1499	1648	0	759	2.27	41	68.7	44.2	31.2	15.7	15.7
7-8 AM	2236	0.0	978	0.0	1500	2181	55	1033+	18.77	526	67.9	12.3	30.8	12.4	12.2
8-9 AM	1784	0.0	708	0.0	1500	1399	385	1093+	31.37	793	68.5	7.9	30.8	16.7	11.5
9-10 AM	2031	0.0	741	0.0	1499	1574	457	1199+	31.62	800	68.2	7.9	30.8	16.0	11.4
10-11 AM	2456	0.0	806	0.0	1499	1500	956	1762+	32.30	818	67.7	7.7	30.8	14.8	11.2
11A-NOON	2684	0.0	832	0.0	1499	1500	1184	2016+	32.29	818	67.4	7.7	30.8	14.3	11.2
NOON-1PM	2723	0.0	850	0.0	1499	1500	1223	2073+	32.28	818	67.4	7.7	30.8	13.8	11.2
1-2 PM	2939	0.0	904	0.0	1499	1500	1439	2343+	32.27	818	67.1	7.7	30.8	12.9	11.2
2-3 PM	3357	0.0	980	0.0	1499	1500	1857	2837+	32.23	818	66.6	7.7	30.8	12.4	11.2
3-4 PM	3466	0.0	1066	0.0	1499	1500	1966	3033+	32.23	818	66.4	7.7	30.8	11.2	11.2
4-5 PM	3552	0.0	1059	0.0	1499	1500	2052	3111+	32.22	818	66.3	7.7	30.8	11.3	11.2
5-6 PM	3415	0.0	970	0.0	1499	1500	1915	2884+	32.23	818	66.5	7.7	30.8	12.5	11.2
6-7 PM	2948	0.0	770	0.0	1499	1500	1448	2218+	32.27	818	67.1	7.7	30.8	15.5	11.2
7-8 PM	2636	0.0	547	0.0	1499	1500	1136	1683+	32.29	818	67.4	7.7	30.8	19.8	11.2
8-9 PM	2204	0.0	379	0.0	1499	1443	761	1140+	31.77	804	68.0	7.8	30.8	23.5	11.4
9-10 PM	1726	0.0	290	0.0	1499	1180	547	837+	24.26	617	68.6	9.9	30.8	25.8	14.3
10-11 PM	1141	0.0	220	0.0	1499	1063	78	298	7.92	226	69.3	23.5	34.6	27.7	25.7
11PM-MID	867	0.0	159	0.0	1500	867	0	159	0.57	0	69.7	61.0	42.2	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	0.0193
DIVERSION	0.2967

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$314,476
CONGESTED HOURS PER DAY*	15

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 2 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

