

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) NIGHTTIME 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	94	0.0	1500	233	0	94	0.50	0	70.2	62.4	44.5	31.1	31.1
1-2 AM	130	0.0	63	0.0	1500	130	0	63	0.49	0	70.2	62.5	45.0	31.9	31.9
2-3 AM	115	0.0	61	0.0	1500	115	0	61	0.49	0	70.2	62.6	45.0	31.9	31.9
3-4 AM	171	0.0	56	0.0	1500	171	0	56	0.49	0	70.2	62.5	44.8	32.0	32.0
4-5 AM	354	0.0	120	0.0	1500	354	0	120	0.52	0	70.2	62.2	44.1	30.4	30.4
5-6 AM	917	0.0	243	0.0	OFF	917	0	243	0.00	0	69.6	69.6	69.6	27.1	27.1
6-7 AM	1377	0.0	580	0.0	OFF	1377	0	580	0.00	0	69.0	69.0	69.0	19.1	19.1
7-8 AM	1669	0.0	678	0.0	OFF	1669	0	678	0.00	0	68.7	68.7	68.7	17.3	17.3
8-9 AM	1555	0.0	573	0.0	OFF	1555	0	573	0.00	0	68.8	68.8	68.8	19.3	19.3
9-10 AM	1726	0.0	626	0.0	OFF	1726	0	626	0.00	0	68.6	68.6	68.6	18.3	18.3
10-11 AM	2012	0.0	744	0.0	OFF	2012	0	744	0.00	0	68.2	68.2	68.2	16.0	16.0
11A-NOON	2199	0.0	848	0.0	OFF	2199	0	848+	0.00	0	68.0	68.0	68.0	13.9	13.9
NOON-1PM	2474	0.0	928	0.0	OFF	2474	0	928+	0.00	0	67.7	67.7	67.7	12.8	12.8
1-2 PM	2449	0.0	1002	0.0	OFF	2449	0	1002+	0.00	0	67.7	67.7	67.7	12.1	12.1
2-3 PM	2654	0.0	1135	0.0	OFF	2654	0	1135+	0.00	0	67.4	67.4	67.4	11.2	11.2
3-4 PM	2869	0.0	1263	0.0	OFF	2869	0	1263+	0.00	0	67.2	67.2	67.2	11.2	11.2
4-5 PM	2988	0.0	1289	0.0	OFF	2988	0	1289+	0.00	0	67.0	67.0	67.0	11.2	11.2
5-6 PM	2634	0.0	1104	0.0	OFF	2634	0	1104+	0.00	0	67.4	67.4	67.4	11.2	11.2
6-7 PM	1875	0.0	788	0.0	OFF	1875	0	788	0.00	0	68.4	68.4	68.4	15.2	15.2
7-8 PM	1412	0.0	641	0.0	1500	1412	0	641	0.98	0	69.0	55.6	32.7	17.9	17.9
8-9 PM	1205	0.0	550	0.0	1500	1205	0	550	0.71	0	69.2	58.9	38.3	19.7	19.7
9-10 PM	1042	0.0	452	0.0	1500	1042	0	452	0.59	0	69.4	60.6	41.5	21.6	21.6
10-11 PM	753	0.0	348	0.0	1500	753	0	348	0.56	0	69.8	61.3	42.5	24.3	24.3
11PM-MID	468	0.0	261	0.0	1500	468	0	261	0.53	0	70.2	62.0	43.7	26.6	26.6

"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	0.1372

PIA: Personal Injury Accidents

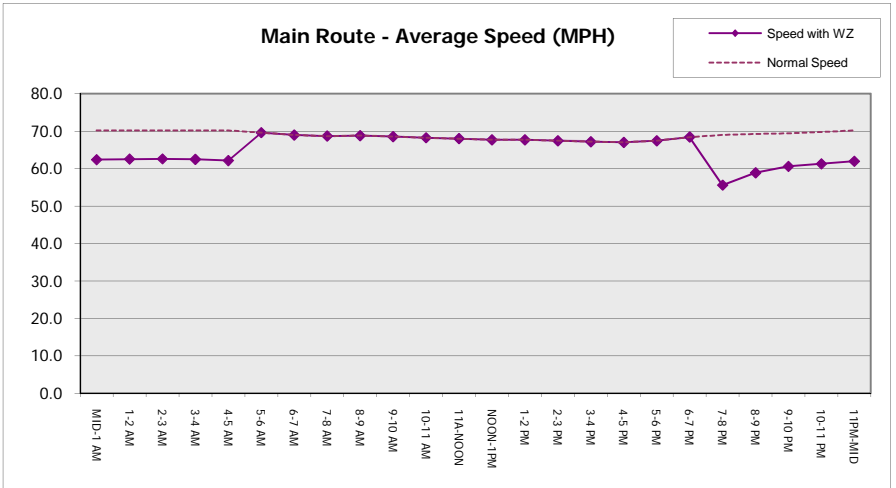
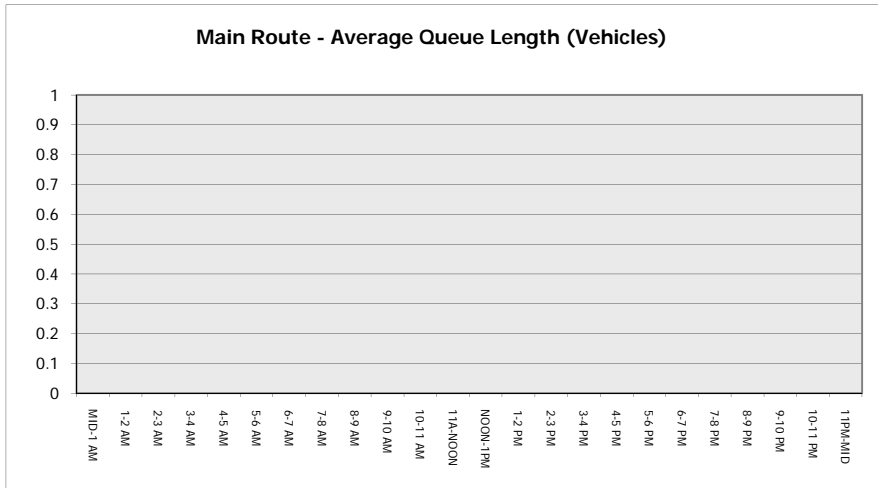
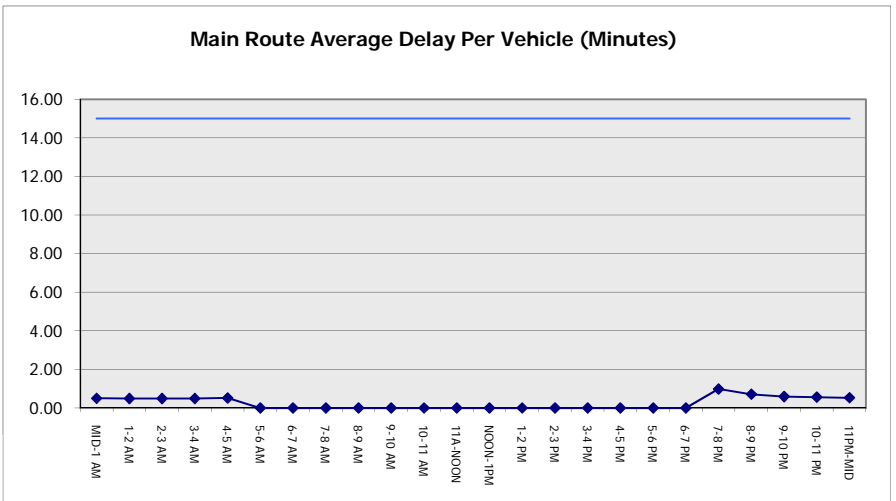
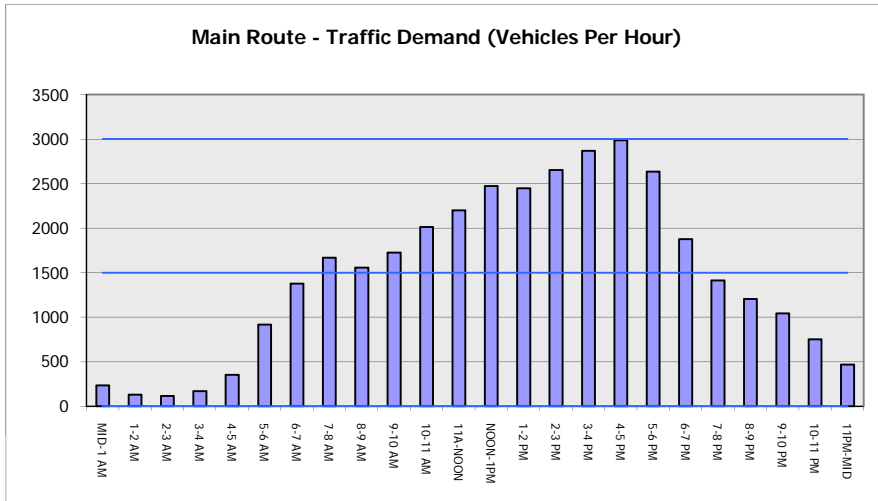
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,101
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 NIGHTTIME 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) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	AUGUST
	Analyzed for 2009 Construction Season

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	78	0.0	1500	329	0	78	0.51	0	70.2	62.2	44.2	31.5	31.5
1-2 AM	203	0.0	64	0.0	1500	203	0	64	0.50	0	70.2	62.4	44.6	31.9	31.9
2-3 AM	168	0.0	57	0.0	1500	168	0	57	0.49	0	70.2	62.5	44.8	32.0	32.0
3-4 AM	195	0.0	68	0.0	1500	195	0	68	0.50	0	70.2	62.5	44.7	31.7	31.7
4-5 AM	281	0.0	147	0.0	1500	281	0	147	0.51	0	70.2	62.3	44.3	29.6	29.6
5-6 AM	756	0.0	379	0.0	OFF	756	0	379	0.00	0	69.8	69.8	69.8	23.5	23.5
6-7 AM	1648	0.0	797	0.0	OFF	1648	0	797	0.00	0	68.7	68.7	68.7	15.0	15.0
7-8 AM	2236	0.0	1027	0.0	OFF	2236	0	1027+	0.00	0	67.9	67.9	67.9	11.7	11.7
8-9 AM	1784	0.0	744	0.0	OFF	1784	0	744	0.00	0	68.5	68.5	68.5	16.0	16.0
9-10 AM	2031	0.0	778	0.0	OFF	2031	0	778	0.00	0	68.2	68.2	68.2	15.3	15.3
10-11 AM	2456	0.0	847	0.0	OFF	2456	0	847+	0.00	0	67.7	67.7	67.7	14.0	14.0
11A-NOON	2684	0.0	874	0.0	OFF	2684	0	874+	0.00	0	67.4	67.4	67.4	13.4	13.4
NOON-1PM	2723	0.0	893	0.0	OFF	2723	0	893+	0.00	0	67.4	67.4	67.4	13.0	13.0
1-2 PM	2939	0.0	949	0.0	OFF	2939	0	949+	0.00	0	67.1	67.1	67.1	12.6	12.6
2-3 PM	3357	0.0	1029	0.0	OFF	3357	0	1029+	0.00	0	66.6	66.6	66.6	11.7	11.7
3-4 PM	3466	0.0	1120	0.0	OFF	3466	0	1120+	0.00	0	66.4	66.4	66.4	11.2	11.2
4-5 PM	3552	0.0	1113	0.0	OFF	3552	0	1113+	0.00	0	66.3	66.3	66.3	11.2	11.2
5-6 PM	3415	0.0	1018	0.0	OFF	3415	0	1018+	0.00	0	66.5	66.5	66.5	11.9	11.9
6-7 PM	2948	0.0	809	0.0	OFF	2948	0	809+	0.00	0	67.1	67.1	67.1	14.7	14.7
7-8 PM	2636	0.0	574	0.0	1499	2286	350	924+	18.39	527	67.4	12.5	30.8	19.3	15.2
8-9 PM	2204	0.0	398	0.0	1500	1500	704	1102+	32.32	818	68.0	7.7	30.8	23.0	11.2
9-10 PM	1726	0.0	305	0.0	1500	1169	557	862+	24.81	631	68.6	9.7	30.8	25.5	14.1
10-11 PM	1141	0.0	231	0.0	1499	1059	82	313	8.24	234	69.3	22.9	34.5	27.4	25.3
11PM-MID	867	0.0	167	0.0	1500	867	0	167	0.58	0	69.7	60.9	42.2	29.1	29.1

"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	0.0342
MAIN ROUTE WITH WORKS	0.0324
DIVERSION	0.1535

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$47,282
CONGESTED HOURS PER DAY*	3

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 NIGHTTIME 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

