

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: BUS 51 - STH 52**

MAY
Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	138	0.0	65	0.0	1500	138	0	65	0.49	0	70.2	62.5	45.0	31.8	31.8
1-2 AM	100	0.0	43	0.0	1500	100	0	43	0.48	0	70.2	62.6	45.1	32.4	32.4
2-3 AM	103	0.0	40	0.0	1500	103	0	40	0.48	0	70.2	62.6	45.1	32.5	32.5
3-4 AM	182	0.0	65	0.0	1500	182	0	65	0.49	0	70.2	62.5	44.8	31.8	31.8
4-5 AM	408	0.0	177	0.0	1500	408	0	177	0.52	0	70.2	62.1	43.8	28.8	28.8
5-6 AM	995	0.0	375	0.0	OFF	995	0	375	0.00	0	69.5	69.5	69.5	23.6	23.6
6-7 AM	1723	0.0	802	0.0	OFF	1723	0	802+	0.00	0	68.6	68.6	68.6	14.9	14.9
7-8 AM	1745	0.0	903	0.0	OFF	1745	0	903+	0.00	0	68.6	68.6	68.6	13.0	13.0
8-9 AM	1544	0.0	681	0.0	OFF	1544	0	681	0.00	0	68.8	68.8	68.8	17.2	17.2
9-10 AM	1640	0.0	673	0.0	OFF	1640	0	673	0.00	0	68.7	68.7	68.7	17.4	17.4
10-11 AM	1799	0.0	726	0.0	OFF	1799	0	726	0.00	0	68.5	68.5	68.5	16.3	16.3
11A-NOON	1919	0.0	815	0.0	OFF	1919	0	815+	0.00	0	68.4	68.4	68.4	14.6	14.6
NOON-1PM	2005	0.0	867	0.0	OFF	2005	0	867+	0.00	0	68.2	68.2	68.2	13.5	13.5
1-2 PM	2098	0.0	918	0.0	OFF	2098	0	918+	0.00	0	68.1	68.1	68.1	12.9	12.9
2-3 PM	2363	0.0	1161	0.0	OFF	2363	0	1161+	0.00	0	67.8	67.8	67.8	11.2	11.2
3-4 PM	2673	0.0	1430	0.0	OFF	2673	0	1430+	0.00	0	67.4	67.4	67.4	11.2	11.2
4-5 PM	2695	0.0	1542	0.0	OFF	2695	0	1542+	0.00	0	67.4	67.4	67.4	11.2	11.2
5-6 PM	2279	0.0	1254	0.0	OFF	2279	0	1254+	0.00	0	67.9	67.9	67.9	11.2	11.2
6-7 PM	1442	0.0	790	0.0	OFF	1442	0	790	0.00	0	68.9	68.9	68.9	15.1	15.1
7-8 PM	1156	0.0	612	0.0	1500	1156	0	612	0.65	0	69.3	59.7	39.9	18.5	18.5
8-9 PM	908	0.0	520	0.0	1500	908	0	520	0.58	0	69.6	60.9	42.0	20.3	20.3
9-10 PM	627	0.0	345	0.0	1500	627	0	345	0.55	0	69.9	61.6	43.0	24.4	24.4
10-11 PM	461	0.0	287	0.0	1500	461	0	287	0.53	0	70.2	62.0	43.7	26.0	26.0
11PM-MID	231	0.0	142	0.0	1500	231	0	142	0.50	0	70.2	62.4	44.6	29.8	29.8

"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	0.0234
MAIN ROUTE WITH WORKS	0.0231
DIVERSION	0.1447

PIA: Personal Injury Accidents

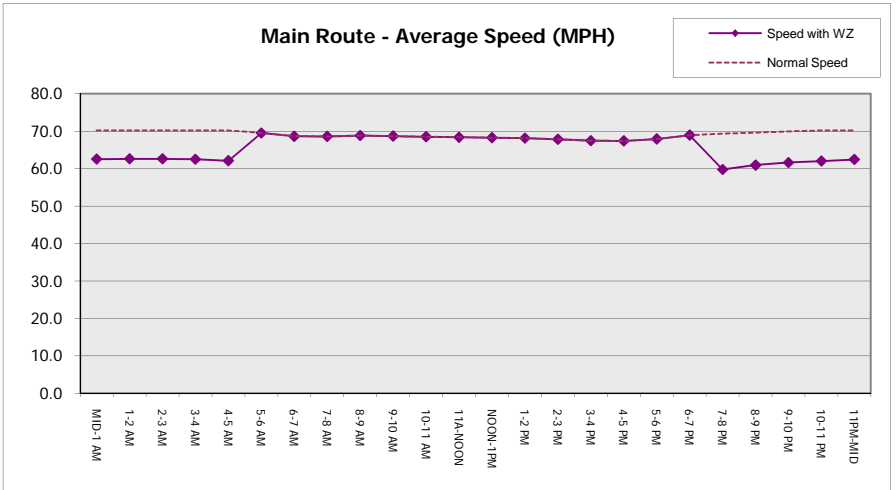
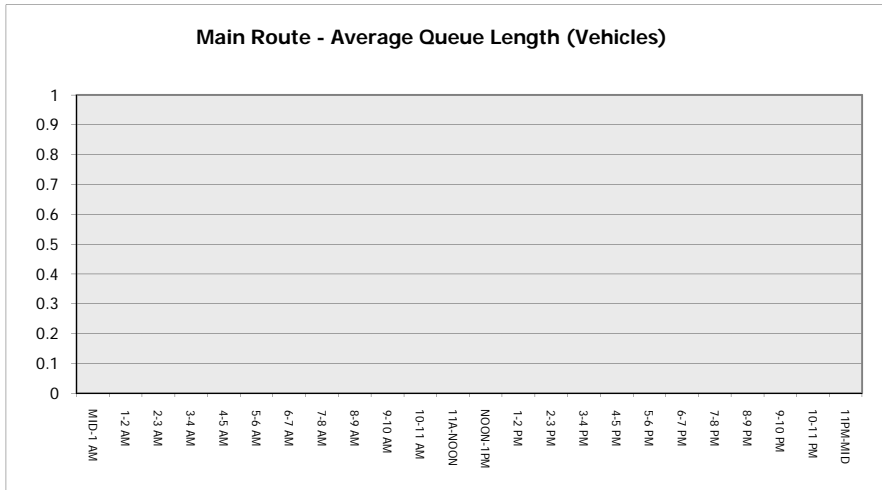
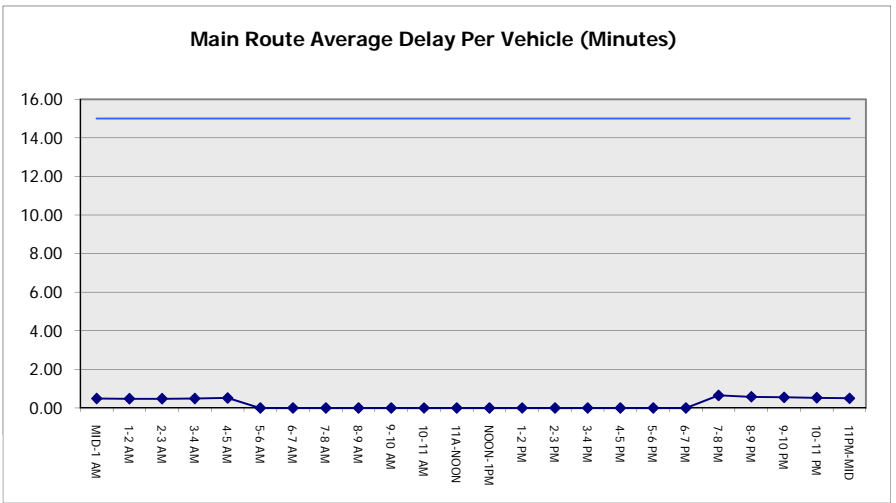
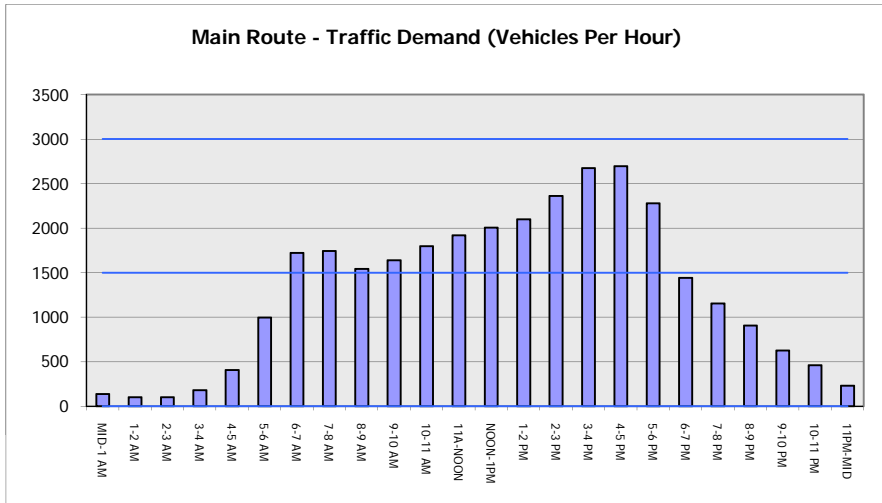
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$502
CONGESTED HOURS PER DAY*	0

*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**

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR SOUTHBOUND DIRECTION



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

SUMMARY OF TRAFFIC MODEL OUTPUT	
MON-THUR	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	188	0.0	61	0.0	1500	188	0	61	0.50	0	70.2	62.5	44.7	31.9	31.9
1-2 AM	120	0.0	53	0.0	1500	120	0	53	0.49	0	70.2	62.6	45.0	32.1	32.1
2-3 AM	114	0.0	56	0.0	1500	114	0	56	0.49	0	70.2	62.6	45.0	32.0	32.0
3-4 AM	159	0.0	76	0.0	1500	159	0	76	0.49	0	70.2	62.5	44.8	31.5	31.5
4-5 AM	316	0.0	186	0.0	1500	316	0	186	0.51	0	70.2	62.2	44.2	28.6	28.6
5-6 AM	881	0.0	568	0.0	OFF	881	0	568	0.00	0	69.6	69.6	69.6	19.4	19.4
6-7 AM	1751	0.0	1189	0.0	OFF	1751	0	1189+	0.00	0	68.6	68.6	68.6	11.2	11.2
7-8 AM	2058	0.0	1432	0.0	OFF	2058	0	1432+	0.00	0	68.2	68.2	68.2	11.2	11.2
8-9 AM	1495	0.0	963	0.0	OFF	1495	0	963+	0.00	0	68.9	68.9	68.9	12.5	12.5
9-10 AM	1455	0.0	820	0.0	OFF	1455	0	820+	0.00	0	68.9	68.9	68.9	14.5	14.5
10-11 AM	1503	0.0	811	0.0	OFF	1503	0	811+	0.00	0	68.9	68.9	68.9	14.7	14.7
11A-NOON	1574	0.0	838	0.0	OFF	1574	0	838+	0.00	0	68.8	68.8	68.8	14.2	14.2
NOON-1PM	1621	0.0	879	0.0	OFF	1621	0	879+	0.00	0	68.7	68.7	68.7	13.3	13.3
1-2 PM	1731	0.0	941	0.0	OFF	1731	0	941+	0.00	0	68.6	68.6	68.6	12.7	12.7
2-3 PM	1909	0.0	1077	0.0	OFF	1909	0	1077+	0.00	0	68.4	68.4	68.4	11.2	11.2
3-4 PM	2228	0.0	1215	0.0	OFF	2228	0	1215+	0.00	0	67.9	67.9	67.9	11.2	11.2
4-5 PM	2255	0.0	1270	0.0	OFF	2255	0	1270+	0.00	0	67.9	67.9	67.9	11.2	11.2
5-6 PM	1979	0.0	1074	0.0	OFF	1979	0	1074+	0.00	0	68.2	68.2	68.2	11.2	11.2
6-7 PM	1366	0.0	719	0.0	OFF	1366	0	719	0.00	0	69.1	69.1	69.1	16.5	16.5
7-8 PM	1061	0.0	516	0.0	1500	1061	0	516	0.59	0	69.4	60.5	41.5	20.4	20.4
8-9 PM	907	0.0	399	0.0	1500	907	0	399	0.58	0	69.6	60.9	42.0	23.0	23.0
9-10 PM	687	0.0	297	0.0	1500	687	0	297	0.55	0	69.9	61.5	42.8	25.6	25.6
10-11 PM	476	0.0	257	0.0	1500	476	0	257	0.53	0	70.1	62.0	43.6	26.7	26.7
11PM-MID	315	0.0	129	0.0	1500	315	0	129	0.51	0	70.2	62.2	44.2	30.1	30.1

"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 (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	0.0210
MAIN ROUTE WITH WORKS	0.0208
DIVERSION	0.1503

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$490
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**

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 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR NORTHBOUND DIRECTION

