

<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>MAY</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	207	0.0	93	0.0	1500	207	0	93	0.50	0	70.2	62.4	44.6	31.1	31.1
1-2 AM	120	0.0	64	0.0	1500	120	0	64	0.49	0	70.2	62.6	45.0	31.9	31.9
2-3 AM	90	0.0	45	0.0	1500	90	0	45	0.48	0	70.2	62.7	45.1	32.4	32.4
3-4 AM	90	0.0	35	0.0	1500	90	0	35	0.48	0	70.2	62.7	45.1	32.6	32.6
4-5 AM	104	0.0	50	0.0	1500	104	0	50	0.48	0	70.2	62.6	45.1	32.2	32.2
5-6 AM	188	0.0	58	0.0	1500	188	0	58	0.50	0	70.2	62.5	44.7	32.0	32.0
6-7 AM	341	0.0	113	0.0	1500	341	0	113	0.51	0	70.2	62.2	44.2	30.6	30.6
7-8 AM	530	0.0	194	0.0	1500	530	0	194	0.54	0	70.0	61.9	43.4	28.4	28.4
8-9 AM	888	0.0	265	0.0	1500	888	0	265	0.57	0	69.6	61.0	42.0	26.5	26.5
9-10 AM	1301	0.0	469	0.0	1499	1301	0	469	0.83	0	69.1	57.4	35.7	21.2	21.4
10-11 AM	1796	0.0	625	0.0	1499	1796	0	625	4.80	120	68.5	31.6	30.8	18.3	18.3
11A-NOON	2204	0.0	788	0.0	1500	1983	221	1008+	22.51	599	68.0	10.6	30.8	15.2	14.0
NOON-1PM	2488	0.0	912	0.0	1500	1500	988	1900+	32.30	818	67.6	7.7	30.8	12.9	11.2
1-2 PM	2533	0.0	885	0.0	1500	1500	1033	1919+	32.30	818	67.6	7.7	30.8	13.2	11.2
2-3 PM	2317	0.0	940	0.0	1500	1500	817	1757+	32.32	818	67.9	7.7	30.8	12.7	11.2
3-4 PM	2315	0.0	938	0.0	1500	1500	815	1753+	32.32	818	67.9	7.7	30.8	12.7	11.2
4-5 PM	2128	0.0	849	0.0	1500	1501	627	1476+	32.32	818	68.1	7.7	30.8	13.9	11.2
5-6 PM	1784	0.0	748	0.0	1500	1483	301	1049+	31.52	797	68.5	7.9	30.8	15.9	11.4
6-7 PM	1481	0.0	668	0.0	1500	1267	215	883+	25.81	652	68.9	9.4	30.8	17.5	13.6
7-8 PM	1246	0.0	531	0.0	1500	1208	38	569	15.57	391	69.2	14.3	30.9	20.1	19.4
8-9 PM	876	0.0	371	0.0	1500	876	0	371	1.74	51	69.6	48.7	41.5	23.7	23.7
9-10 PM	701	0.0	250	0.0	1500	701	0	250	0.55	0	69.9	61.4	42.7	26.9	26.9
10-11 PM	408	0.0	187	0.0	1500	408	0	187	0.52	0	70.2	62.1	43.8	28.6	28.6
11PM-MID	244	0.0	92	0.0	1500	244	0	92	0.50	0	70.2	62.3	44.5	31.1	31.1

+ 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	0.0197
MAIN ROUTE WITH WORKS	0.0145
DIVERSION	0.1446

PIA: Personal Injury Accidents

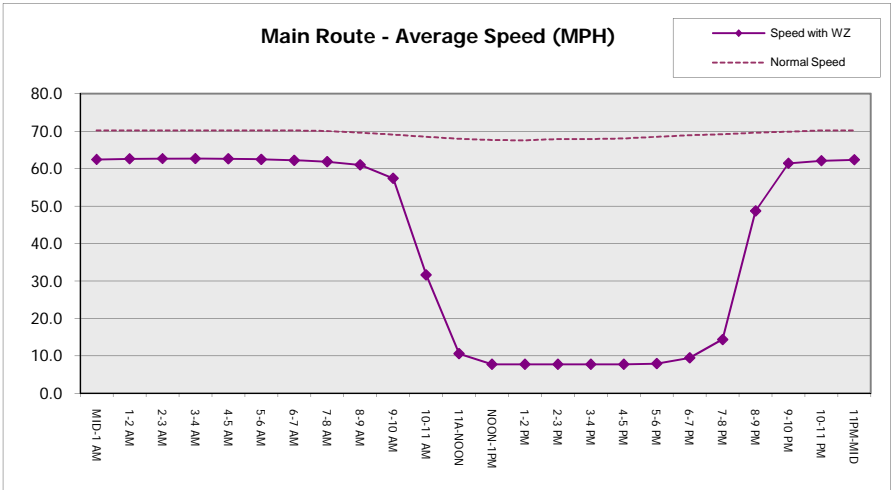
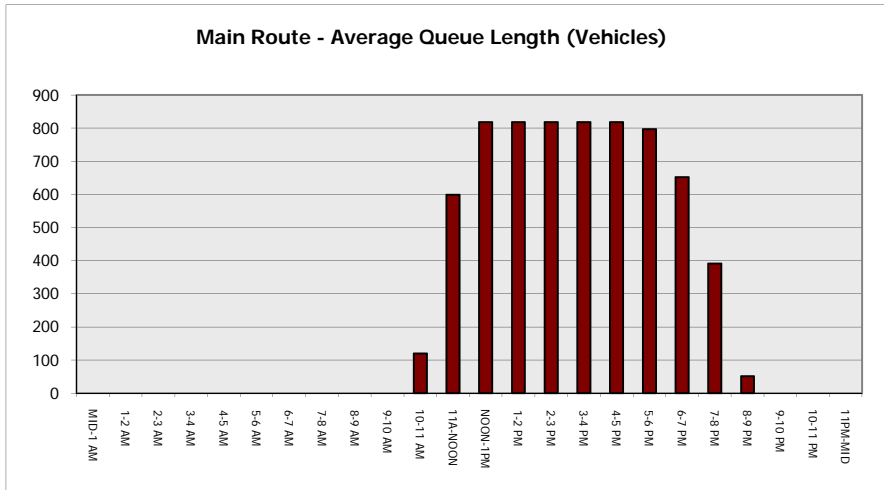
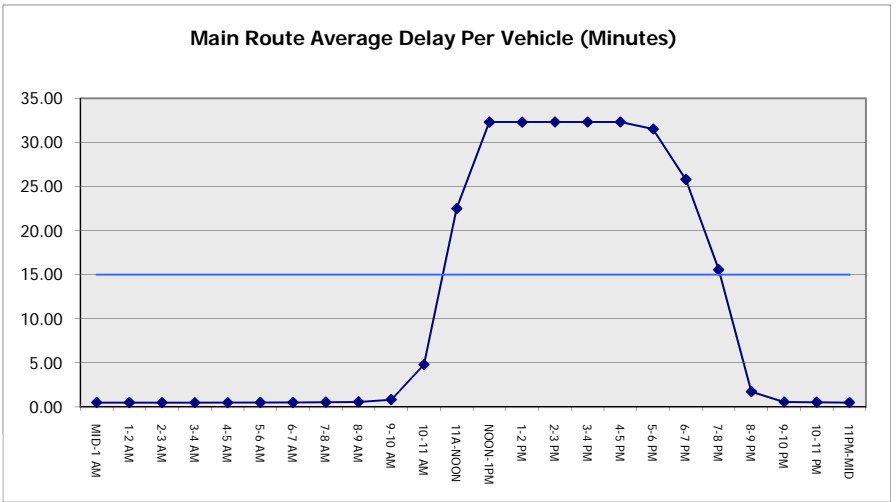
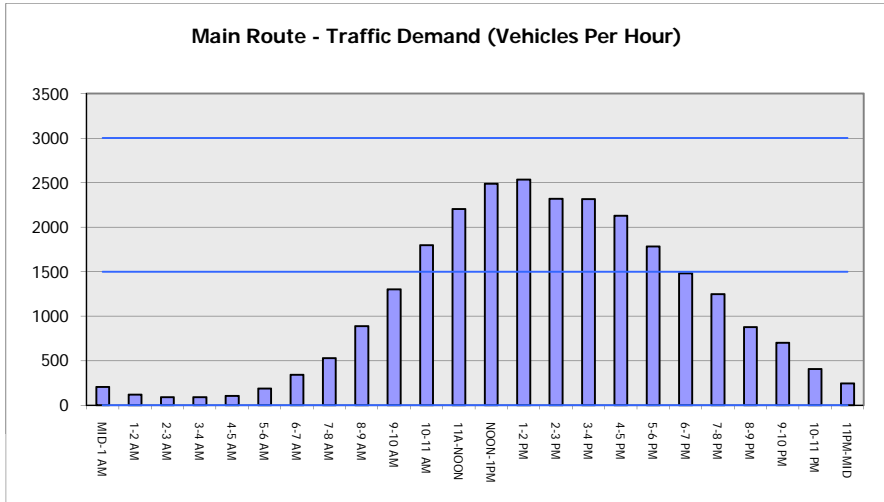
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$168,590
CONGESTED HOURS PER DAY*	9

\*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**

**MAY**  
 Analyzed for 2009  
 Construction Season

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



<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>MAY</b>  Analyzed for 2009 Construction Season
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<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
SUNDAY	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	260	0.0	102	0.0	1500	260	0	102	0.50	0	70.2	62.3	44.5	30.8	30.8
1-2 AM	137	0.0	86	0.0	1500	137	0	86	0.49	0	70.2	62.5	45.0	31.2	31.2
2-3 AM	108	0.0	79	0.0	1500	108	0	79	0.49	0	70.2	62.6	45.1	31.4	31.4
3-4 AM	77	0.0	45	0.0	1500	77	0	45	0.48	0	70.2	62.7	45.2	32.4	32.4
4-5 AM	74	0.0	50	0.0	1500	74	0	50	0.48	0	70.2	62.7	45.2	32.2	32.2
5-6 AM	146	0.0	93	0.0	1500	146	0	93	0.49	0	70.2	62.5	44.9	31.1	31.1
6-7 AM	299	0.0	151	0.0	1500	299	0	151	0.51	0	70.2	62.3	44.3	29.5	29.5
7-8 AM	421	0.0	250	0.0	1500	421	0	250	0.52	0	70.2	62.1	43.8	26.9	26.9
8-9 AM	638	0.0	441	0.0	1500	638	0	441	0.55	0	69.9	61.5	43.0	21.9	21.9
9-10 AM	1032	0.0	625	0.0	1500	1032	0	625	0.59	0	69.4	60.6	41.5	18.3	18.3
10-11 AM	1249	0.0	756	0.0	1499	1249	0	756	0.77	0	69.2	58.2	37.0	15.8	15.8
11A-NOON	1500	0.0	881	0.0	1499	1500	0	881+	1.28	5	68.9	52.5	31.3	13.2	13.2
NOON-1PM	1628	0.0	855	0.0	1500	1628	0	855+	3.98	80	68.7	34.8	30.8	13.8	13.8
1-2 PM	1714	0.0	878	0.0	1500	1714	0	878+	10.54	256	68.6	19.3	30.8	13.3	13.3
2-3 PM	1685	0.0	879	0.0	1499	1685	0	879+	18.54	461	68.6	12.4	30.8	13.3	13.3
3-4 PM	1596	0.0	845	0.0	1499	1591	4	850+	24.02	601	68.7	10.0	30.8	14.0	13.9
4-5 PM	1566	0.0	785	0.0	1499	1490	76	862+	25.81	647	68.8	9.4	30.8	15.2	13.7
5-6 PM	1385	0.0	695	0.0	1499	1321	64	759	21.80	545	69.0	10.9	30.8	17.0	15.7
6-7 PM	1181	0.0	563	0.0	1499	1181	0	563	11.81	301	69.2	17.8	31.7	19.5	19.5
7-8 PM	1092	0.0	432	0.0	1500	1092	0	432	1.27	23	69.4	52.9	39.9	22.0	22.1
8-9 PM	904	0.0	336	0.0	1500	904	0	336	0.58	0	69.6	60.9	42.0	24.7	24.7
9-10 PM	648	0.0	237	0.0	1500	648	0	237	0.55	0	69.9	61.5	43.0	27.3	27.3
10-11 PM	512	0.0	166	0.0	1500	512	0	166	0.53	0	70.1	61.9	43.5	29.1	29.1
11PM-MID	318	0.0	67	0.0	1500	318	0	67	0.51	0	70.2	62.2	44.2	31.7	31.7

+ 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	0.0151
MAIN ROUTE WITH WORKS	0.0136
DIVERSION	0.0992

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$56,250
CONGESTED HOURS PER DAY*	4

\*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**

**MAY**  
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 Construction Season

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

