

<b>IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: BUS 51, STH 29</b>	<b>OCTOBER</b>
	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	109	0.0	56	0.0	1500	109	0	56	0.43	0	66.2	55.2	45.0	28.5	28.5
1-2 AM	63	0.0	32	0.0	1500	63	0	32	0.43	0	66.3	55.3	45.3	29.1	29.1
2-3 AM	61	0.0	31	0.0	1500	61	0	31	0.43	0	66.3	55.3	45.3	29.1	29.1
3-4 AM	107	0.0	55	0.0	1500	107	0	55	0.43	0	66.2	55.2	45.1	28.5	28.5
4-5 AM	175	0.0	90	0.0	1500	175	0	90	0.44	0	66.1	55.0	44.8	27.7	27.7
5-6 AM	443	0.0	226	0.0	1500	443	0	226	0.47	0	65.6	54.1	43.7	24.5	24.5
6-7 AM	973	0.0	496	0.0	1500	973	0	496	0.52	0	64.6	52.4	41.8	18.6	18.6
7-8 AM	1052	0.0	537	0.0	1500	1052	0	537	0.52	0	64.4	52.2	41.5	17.8	17.8
8-9 AM	931	0.0	475	0.0	1500	931	0	475	0.51	0	64.6	52.5	41.9	18.9	18.9
9-10 AM	950	0.0	485	0.0	1500	950	0	485	0.51	0	64.6	52.5	41.9	18.8	18.8
10-11 AM	1069	0.0	546	0.0	1500	1069	0	546	0.53	0	64.4	52.1	41.4	17.7	17.7
11A-NOON	1153	0.0	589	0.0	1500	1153	0	589	0.58	0	64.2	51.1	40.0	16.9	16.9
NOON-1PM	1269	0.0	647	0.0	1500	1269	0	647	0.73	0	64.0	48.4	36.3	15.8	15.8
1-2 PM	1291	0.0	659	0.0	1499	1291	0	659	0.75	0	64.0	47.9	35.8	15.6	15.6
2-3 PM	1487	0.0	760	0.0	1499	1487	0	760	1.14	4	63.6	42.2	31.4	13.8	13.8
3-4 PM	1691	0.0	864	0.0	1500	1691	0	864+	4.42	104	63.2	21.5	30.8	12.2	12.2
4-5 PM	1802	0.0	920	0.0	1500	1802	0	920+	14.14	364	63.0	10.1	30.8	11.4	12.2
5-6 PM	1590	0.0	812	0.0	1499	1538	52	864+	21.92	564	63.4	8.3	30.8	13.0	14.0
6-7 PM	1118	0.0	571	0.0	1499	1076	42	613	12.97	349	64.3	10.9	32.8	17.2	17.3
7-8 PM	815	0.0	416	0.0	1500	815	0	416	0.77	12	64.9	48.2	42.3	20.1	20.1
8-9 PM	623	0.0	318	0.0	1500	623	0	318	0.48	0	65.2	53.5	43.0	22.4	22.4
9-10 PM	485	0.0	247	0.0	1500	485	0	247	0.47	0	65.5	54.0	43.6	24.0	24.0
10-11 PM	351	0.0	179	0.0	1500	351	0	179	0.46	0	65.7	54.4	44.1	25.6	25.6
11PM-MID	233	0.0	118	0.0	1500	233	0	118	0.45	0	66.0	54.8	44.5	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	0.0076
MAIN ROUTE WITH WORKS	0.0062
DIVERSION	0.0589

PIA: Personal Injury Accidents

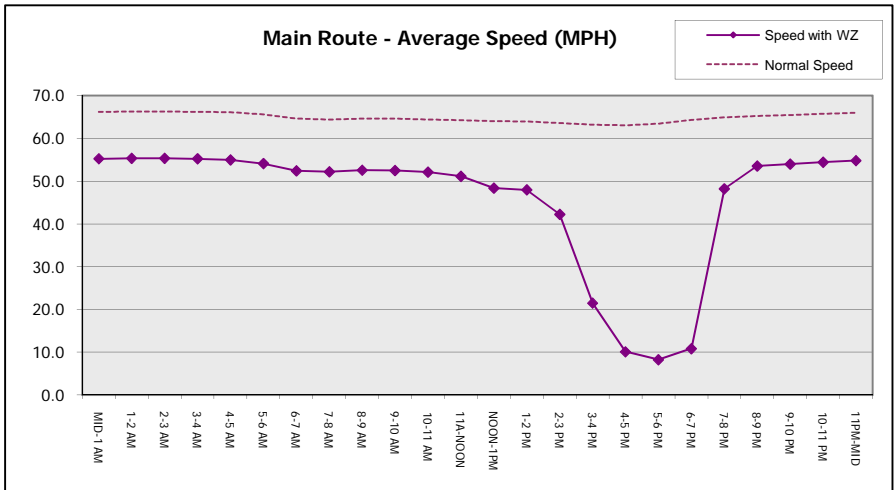
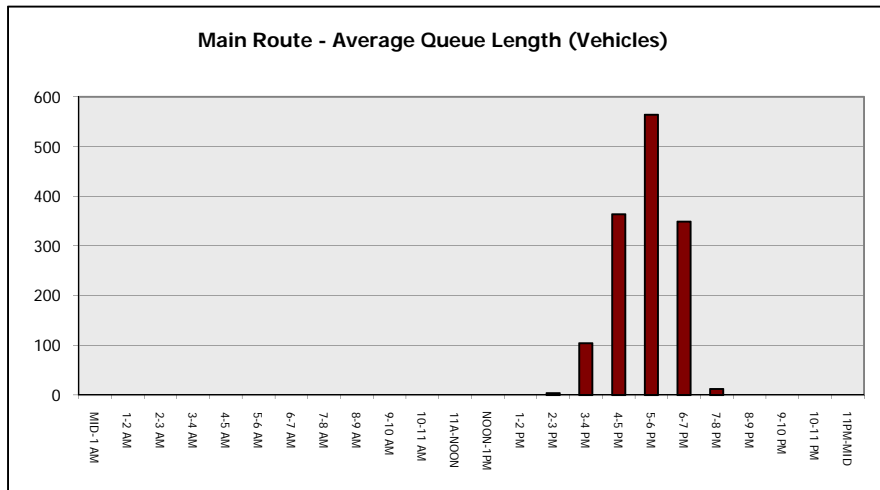
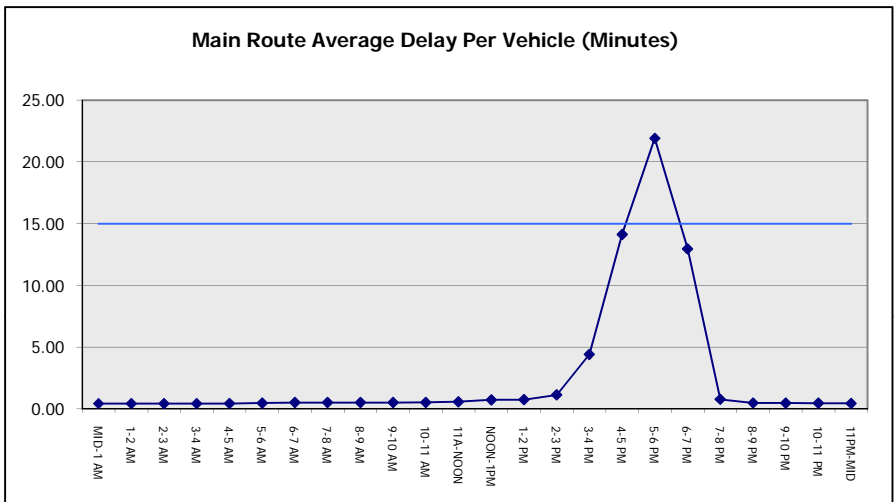
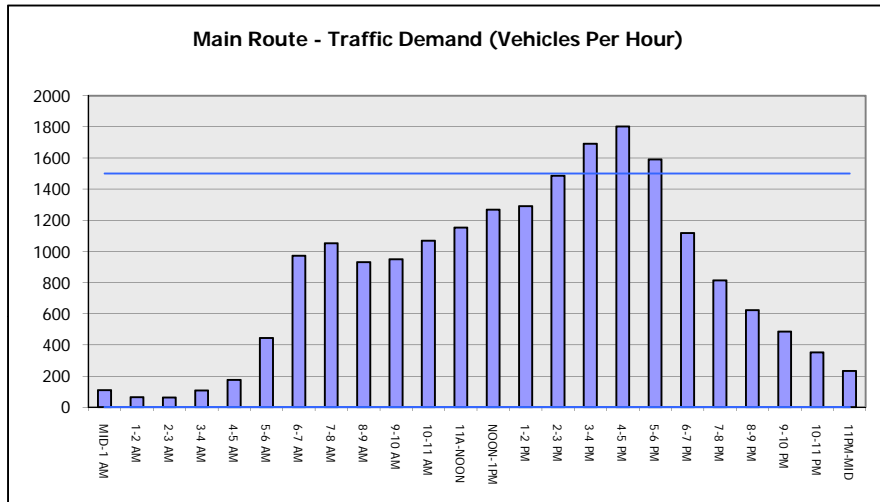
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$21,675
CONGESTED HOURS PER DAY*	1

\*Delays Exceeding 15 Minutes

**IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY)  
 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: BUS 51, STH 29**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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



<b>IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: BUS 51, STH 29</b>	<b>OCTOBER</b> Analyzed for 2009 Construction Season
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<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
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	175	0.0	90	0.0	1500	175	0	90	0.44	0	66.1	55.0	44.8	27.7	27.7
1-2 AM	83	0.0	42	0.0	1500	83	0	42	0.43	0	66.2	55.3	45.1	28.8	28.8
2-3 AM	79	0.0	40	0.0	1500	79	0	40	0.43	0	66.3	55.3	45.1	28.9	28.9
3-4 AM	118	0.0	61	0.0	1500	118	0	61	0.43	0	66.1	55.1	45.0	28.4	28.4
4-5 AM	180	0.0	92	0.0	1500	180	0	92	0.44	0	66.1	55.0	44.8	27.7	27.7
5-6 AM	415	0.0	212	0.0	1500	415	0	212	0.46	0	65.6	54.2	43.8	24.8	24.8
6-7 AM	985	0.0	503	0.0	1500	985	0	503	0.52	0	64.5	52.4	41.7	18.4	18.4
7-8 AM	1363	0.0	696	0.0	1500	1363	0	696	0.85	0	63.8	46.4	33.8	14.9	14.9
8-9 AM	1070	0.0	546	0.0	1500	1070	0	546	0.53	0	64.4	52.1	41.4	17.7	17.7
9-10 AM	1151	0.0	588	0.0	1500	1151	0	588	0.57	0	64.2	51.2	40.1	16.9	16.9
10-11 AM	1306	0.0	667	0.0	1500	1306	0	667	0.77	0	64.0	47.6	35.3	15.5	15.5
11A-NOON	1366	0.0	698	0.0	1500	1366	0	698	0.85	0	63.8	46.3	33.8	14.9	14.9
NOON-1PM	1440	0.0	735	0.0	1499	1440	0	735	0.95	0	63.7	44.9	32.0	14.2	14.2
1-2 PM	1533	0.0	782	0.0	1499	1533	0	782+	1.31	8	63.5	40.2	30.8	13.4	13.4
2-3 PM	1694	0.0	865	0.0	1500	1694	0	865+	4.82	115	63.2	20.2	30.8	12.2	12.2
3-4 PM	2003	0.0	1023	0.0	1500	1999	4	1027+	17.67	469	62.7	9.2	30.8	10.6	11.9
4-5 PM	1965	0.0	1004	0.0	1499	1434	531	1534+	26.15	679	62.7	7.7	30.8	10.7	12.7
5-6 PM	1932	0.0	986	0.0	1500	1510	423	1409+	26.14	678	62.8	7.7	30.8	10.8	12.7
6-7 PM	1602	0.0	817	0.0	1500	1433	168	986+	25.37	657	63.4	7.8	30.8	12.9	13.0
7-8 PM	1314	0.0	670	0.0	1499	1240	73	743	18.57	477	64.0	8.9	30.8	15.4	15.6
8-9 PM	1028	0.0	525	0.0	1499	1028	0	525	3.36	139	64.5	26.1	37.4	18.1	18.1
9-10 PM	777	0.0	396	0.0	1500	777	0	396	0.50	0	65.0	53.0	42.5	20.6	20.6
10-11 PM	522	0.0	267	0.0	1500	522	0	267	0.47	0	65.4	53.8	43.4	23.6	23.6
11PM-MID	311	0.0	159	0.0	1500	311	0	159	0.45	0	65.8	54.5	44.2	26.1	26.1

+ 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	0.0093
MAIN ROUTE WITH WORKS	0.0073
DIVERSION	0.0787

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$53,266
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: BUS 51, STH 29**

**OCTOBER**  
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 Construction Season

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

