

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

MAY
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	111	0.0	57	0.0	1500	111	0	57	0.43	0	66.2	55.2	45.0	28.5	28.5
1-2 AM	65	0.0	33	0.0	1500	65	0	33	0.43	0	66.3	55.3	45.2	29.1	29.1
2-3 AM	63	0.0	32	0.0	1500	63	0	32	0.43	0	66.3	55.3	45.3	29.1	29.1
3-4 AM	102	0.0	51	0.0	1500	102	0	51	0.43	0	66.2	55.2	45.1	28.6	28.6
4-5 AM	202	0.0	103	0.0	1500	202	0	103	0.44	0	66.0	54.9	44.6	27.4	27.4
5-6 AM	445	0.0	228	0.0	1500	445	0	228	0.47	0	65.6	54.1	43.7	24.5	24.5
6-7 AM	1000	0.0	511	0.0	1500	1000	0	511	0.52	0	64.5	52.4	41.7	18.3	18.3
7-8 AM	1038	0.0	530	0.0	1500	1038	0	530	0.52	0	64.5	52.2	41.5	17.9	17.9
8-9 AM	856	0.0	438	0.0	1500	856	0	438	0.51	0	64.8	52.8	42.2	19.6	19.6
9-10 AM	877	0.0	448	0.0	1500	877	0	448	0.51	0	64.8	52.7	42.1	19.4	19.4
10-11 AM	1003	0.0	513	0.0	1500	1003	0	513	0.52	0	64.5	52.4	41.7	18.3	18.3
11A-NOON	1066	0.0	545	0.0	1500	1066	0	545	0.53	0	64.4	52.2	41.4	17.7	17.7
NOON-1PM	1127	0.0	575	0.0	1500	1127	0	575	0.54	0	64.3	51.7	40.9	17.1	17.1
1-2 PM	1173	0.0	599	0.0	1500	1173	0	599	0.60	0	64.2	50.6	39.3	16.7	16.7
2-3 PM	1337	0.0	683	0.0	1499	1337	0	683	0.81	0	63.9	46.9	34.6	15.2	15.2
3-4 PM	1538	0.0	784	0.0	1499	1538	0	784+	1.35	9	63.5	39.7	30.8	13.4	13.4
4-5 PM	1624	0.0	830	0.0	1500	1624	0	830+	4.55	100	63.3	21.1	30.8	12.7	12.7
5-6 PM	1504	0.0	768	0.0	1499	1504	0	768+	7.71	180	63.6	14.4	30.8	13.6	13.7
6-7 PM	1083	0.0	553	0.0	1500	1083	0	553	1.48	40	64.4	38.7	38.6	17.5	17.5
7-8 PM	863	0.0	441	0.0	1500	863	0	441	0.51	0	64.8	52.8	42.2	19.6	19.6
8-9 PM	725	0.0	370	0.0	1500	725	0	370	0.49	0	65.0	53.2	42.7	21.2	21.2
9-10 PM	503	0.0	256	0.0	1500	503	0	256	0.47	0	65.5	53.9	43.5	23.8	23.8
10-11 PM	371	0.0	189	0.0	1500	371	0	189	0.46	0	65.7	54.3	44.0	25.4	25.4
11PM-MID	221	0.0	113	0.0	1500	221	0	113	0.44	0	66.0	54.8	44.6	27.1	27.1

+ 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	0.0072
MAIN ROUTE WITH WORKS	0.0060
DIVERSION	0.0556

PIA: Personal Injury Accidents

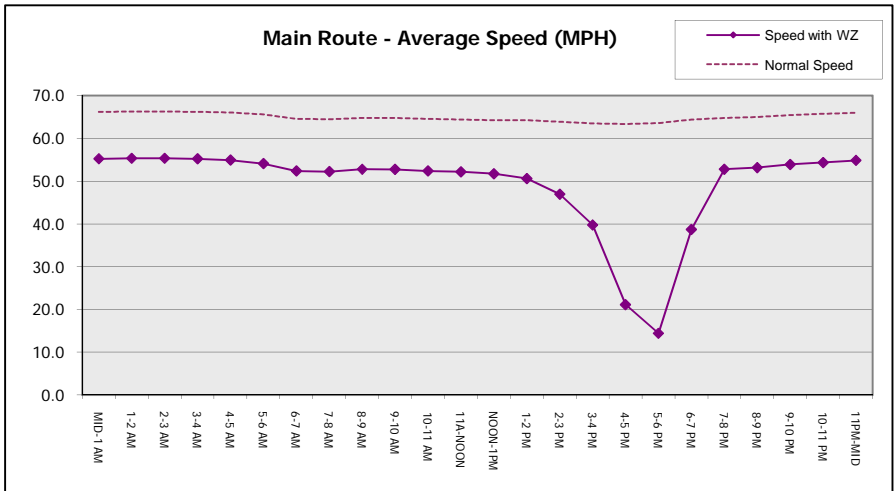
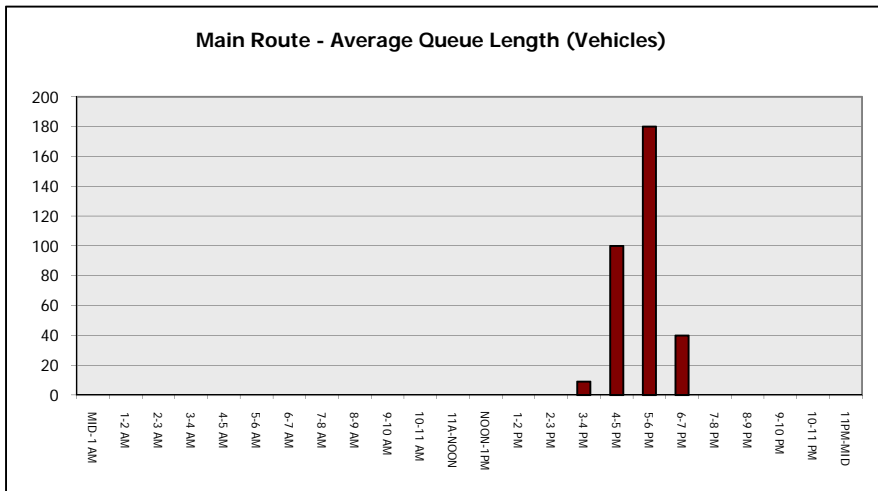
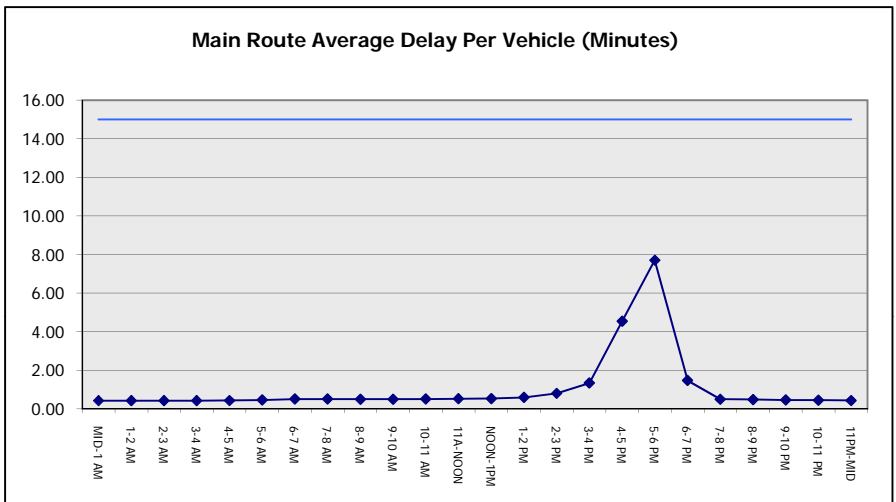
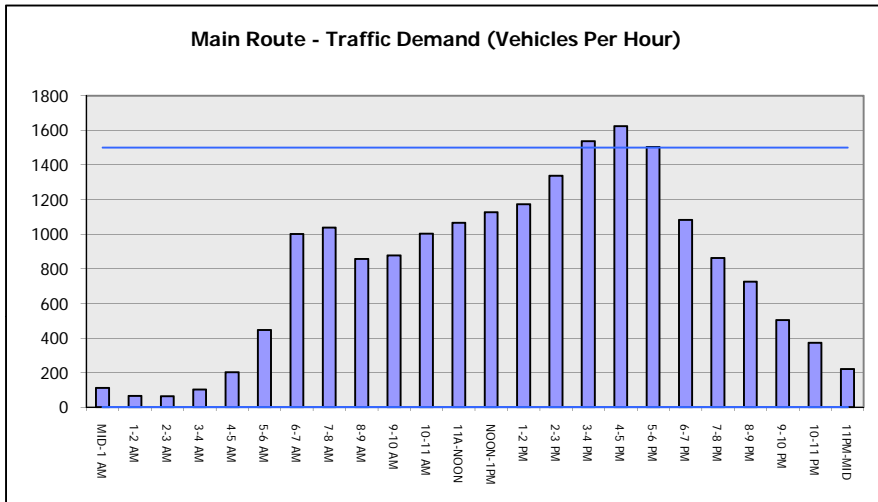
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$7,145
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



IH 39: STH 29E TO STH 34/CTH C (MARATHON COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: BUS 51, STH 29	MAY
	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			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	202	0.0	103	0.0	1500	202	0	103	0.44	0	66.0	54.9	44.6	27.4	27.4
1-2 AM	115	0.0	59	0.0	1500	115	0	59	0.43	0	66.2	55.1	45.0	28.4	28.4
2-3 AM	96	0.0	48	0.0	1500	96	0	48	0.43	0	66.2	55.2	45.1	28.7	28.7
3-4 AM	121	0.0	62	0.0	1500	121	0	62	0.43	0	66.1	55.1	45.0	28.4	28.4
4-5 AM	160	0.0	81	0.0	1500	160	0	81	0.44	0	66.1	55.0	44.8	27.9	27.9
5-6 AM	460	0.0	235	0.0	1500	460	0	235	0.47	0	65.5	54.0	43.7	24.3	24.3
6-7 AM	1062	0.0	543	0.0	1500	1062	0	543	0.53	0	64.4	52.2	41.5	17.7	17.7
7-8 AM	1365	0.0	697	0.0	1500	1365	0	697	0.85	0	63.8	46.4	33.8	14.9	14.9
8-9 AM	1108	0.0	566	0.0	1500	1108	0	566	0.53	0	64.3	52.0	41.3	17.3	17.3
9-10 AM	1229	0.0	628	0.0	1500	1229	0	628	0.67	0	64.1	49.3	37.6	16.1	16.1
10-11 AM	1329	0.0	678	0.0	1500	1329	0	678	0.80	0	63.9	47.1	34.7	15.2	15.2
11A-NOON	1401	0.0	715	0.0	1499	1401	0	715	0.90	0	63.8	45.6	33.0	14.6	14.6
NOON-1PM	1470	0.0	750	0.0	1499	1470	0	750	0.99	0	63.7	44.2	31.4	13.9	13.9
1-2 PM	1659	0.0	847	0.0	1500	1659	0	847+	3.28	71	63.3	25.9	30.8	12.5	12.5
2-3 PM	1761	0.0	899	0.0	1500	1761	0	899+	10.89	276	63.1	11.6	30.8	11.7	12.0
3-4 PM	2093	0.0	1069	0.0	1500	1762	332	1400+	23.78	619	62.5	8.0	30.8	10.6	12.5
4-5 PM	2055	0.0	1049	0.0	1499	1498	557	1606+	26.15	679	62.5	7.7	30.8	10.6	12.7
5-6 PM	2052	0.0	1048	0.0	1499	1499	553	1601+	26.15	679	62.5	7.7	30.8	10.6	12.7
6-7 PM	1803	0.0	920	0.0	1500	1499	304	1224+	26.14	678	63.0	7.7	30.8	11.4	12.7
7-8 PM	1616	0.0	825	0.0	1499	1448	168	992+	25.59	663	63.4	7.8	30.8	12.8	12.9
8-9 PM	1438	0.0	734	0.0	1499	1339	98	832+	21.35	549	63.7	8.3	30.8	14.2	14.5
9-10 PM	1215	0.0	621	0.0	1499	1212	3	624	13.19	339	64.1	10.5	31.2	16.3	17.0
10-11 PM	867	0.0	443	0.0	1500	867	0	443	1.07	29	64.8	43.8	41.9	19.6	19.6
11PM-MID	486	0.0	248	0.0	1500	486	0	248	0.47	0	65.5	54.0	43.5	24.0	24.0

+ 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	0.0104
MAIN ROUTE WITH WORKS	0.0079
DIVERSION	0.0915

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$77,974
CONGESTED HOURS PER DAY*	6

*Delays Exceeding 15 Minutes

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

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY NORTHBOUND DIRECTION

