

IH 39: STH 29 E TO STH 34/CTH C (MARATHON COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: BUS 51 - STH 29	AUGUST
	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	153	0.0	78	0.0	1500	153	0	78	0.44	0	66.1	55.0	44.9	28.0	28.0
1-2 AM	85	0.0	43	0.0	1500	85	0	43	0.43	0	66.2	55.3	45.1	28.8	28.8
2-3 AM	72	0.0	37	0.0	1500	72	0	37	0.43	0	66.3	55.3	45.2	28.9	28.9
3-4 AM	64	0.0	33	0.0	1500	64	0	33	0.43	0	66.3	55.3	45.2	29.1	29.1
4-5 AM	72	0.0	37	0.0	1500	72	0	37	0.43	0	66.3	55.3	45.2	28.9	28.9
5-6 AM	118	0.0	61	0.0	1500	118	0	61	0.43	0	66.1	55.1	45.0	28.4	28.4
6-7 AM	207	0.0	105	0.0	1500	207	0	105	0.44	0	66.0	54.8	44.6	27.3	27.3
7-8 AM	377	0.0	192	0.0	1500	377	0	192	0.46	0	65.7	54.3	44.0	25.3	25.3
8-9 AM	657	0.0	336	0.0	1500	657	0	336	0.49	0	65.1	53.4	42.9	22.0	22.0
9-10 AM	979	0.0	499	0.0	1500	979	0	499	0.00	0	64.6	64.6	64.6	18.5	18.5
10-11 AM	1460	0.0	745	0.0	1500	1460	0	745	0.00	0	63.7	63.7	63.7	14.0	14.0
11A-NOON	1858	0.0	948	0.0	1500	1858	0	948+	0.00	0	62.9	62.9	62.9	11.1	11.1
NOON-1PM	2099	0.0	1072	0.0	1500	2099	0	1072+	0.00	0	62.5	62.5	62.5	10.6	10.6
1-2 PM	2230	0.0	1139	0.0	1500	2230	0	1139+	0.00	0	62.2	62.2	62.2	10.6	10.6
2-3 PM	2217	0.0	1132	0.0	1500	2217	0	1132+	0.00	0	62.2	62.2	62.2	10.6	10.6
3-4 PM	2116	0.0	1081	0.0	1500	2116	0	1081+	0.00	0	62.5	62.5	62.5	10.6	10.6
4-5 PM	1902	0.0	971	0.0	1500	1902	0	971+	0.00	0	62.8	62.8	62.8	10.9	10.9
5-6 PM	1576	0.0	805	0.0	1500	1576	0	805+	0.00	0	63.5	63.5	63.5	13.1	13.1
6-7 PM	1255	0.0	640	0.0	1500	1255	0	640	0.00	0	64.0	64.0	64.0	16.0	16.0
7-8 PM	949	0.0	485	0.0	1500	949	0	485	0.51	0	64.6	52.5	41.9	18.8	18.8
8-9 PM	658	0.0	336	0.0	1500	658	0	336	0.49	0	65.1	53.4	42.9	22.0	22.0
9-10 PM	464	0.0	237	0.0	1500	464	0	237	0.47	0	65.5	54.0	43.7	24.3	24.3
10-11 PM	292	0.0	149	0.0	1500	292	0	149	0.45	0	65.8	54.6	44.3	26.3	26.3
11PM-MID	152	0.0	78	0.0	1500	152	0	78	0.44	0	66.1	55.0	44.9	28.0	28.0

"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	0.0084
MAIN ROUTE WITH WORKS	0.0081
DIVERSION	0.0647

PIA: Personal Injury Accidents

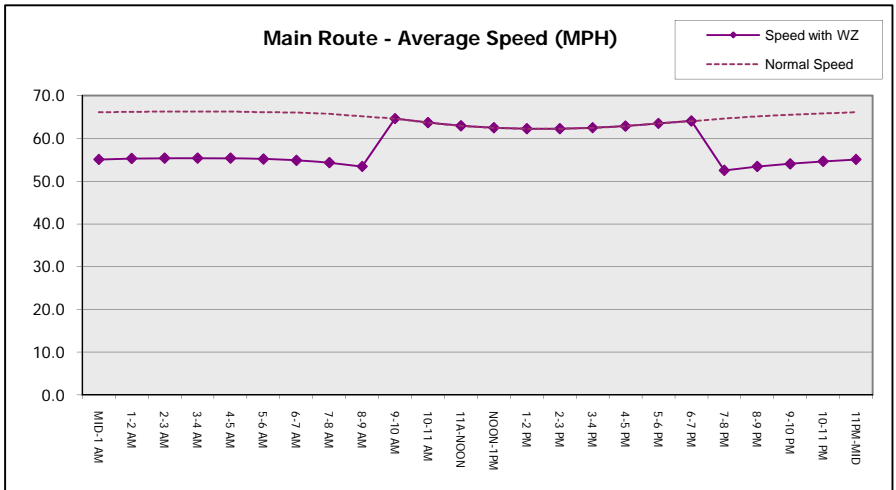
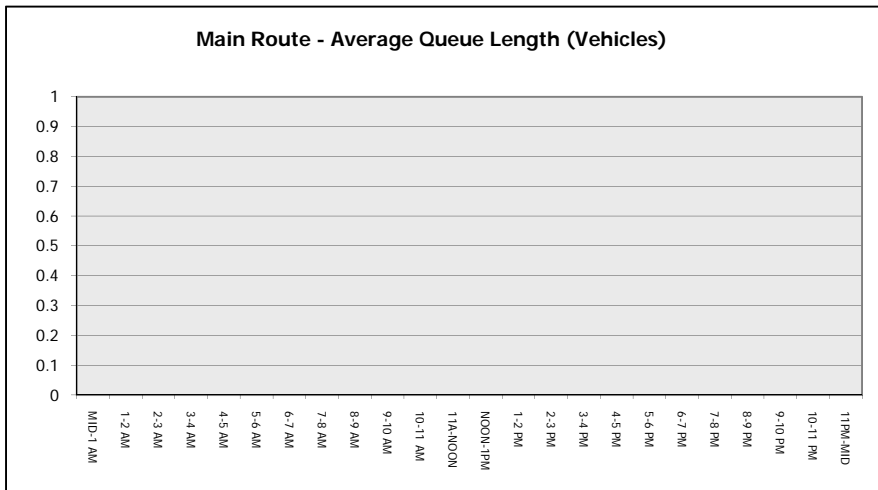
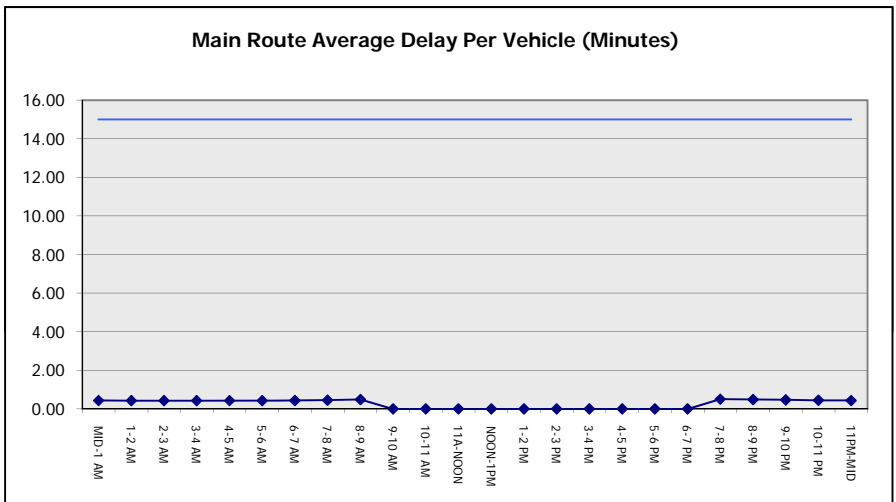
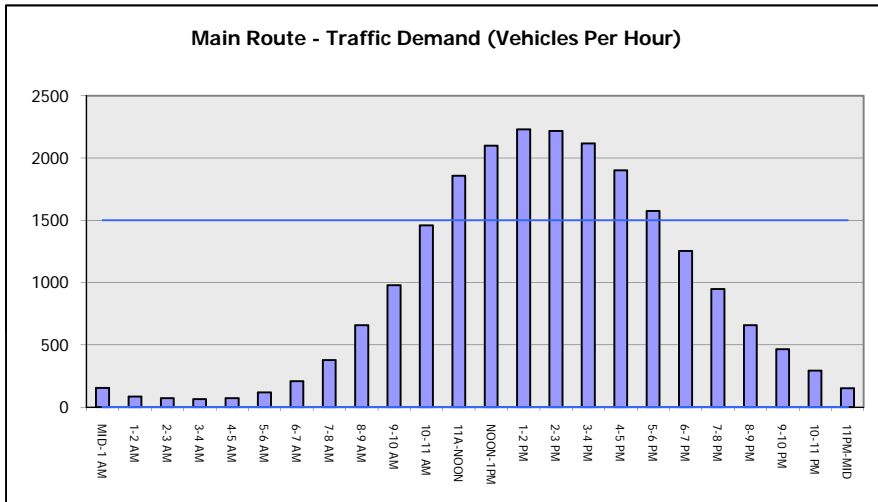
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$485
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME CLOSURE
DIVERSION ROUTE: BUS 51 - STH 29

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



IH 39: STH 29 E TO STH 34/CTH C (MARATHON COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: BUS 51 - STH 29	AUGUST
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SUMMARY OF TRAFFIC MODEL OUTPUT	
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	148	0.0	76	0.0	1500	148	0	76	0.44	0	66.1	55.1	44.9	28.0	28.0
1-2 AM	89	0.0	45	0.0	1500	89	0	45	0.43	0	66.2	55.3	45.1	28.8	28.8
2-3 AM	77	0.0	39	0.0	1500	77	0	39	0.43	0	66.3	55.3	45.2	28.9	28.9
3-4 AM	57	0.0	29	0.0	1500	57	0	29	0.43	0	66.3	55.3	45.3	29.1	29.1
4-5 AM	56	0.0	28	0.0	1500	56	0	28	0.43	0	66.3	55.4	45.3	29.2	29.2
5-6 AM	91	0.0	46	0.0	1500	91	0	46	0.43	0	66.2	55.3	45.1	28.8	28.8
6-7 AM	179	0.0	92	0.0	1500	179	0	92	0.44	0	66.1	55.0	44.8	27.7	27.7
7-8 AM	246	0.0	126	0.0	1500	246	0	126	0.45	0	66.0	54.7	44.5	26.9	26.9
8-9 AM	404	0.0	206	0.0	1500	404	0	206	0.46	0	65.6	54.2	43.9	25.0	25.0
9-10 AM	622	0.0	317	0.0	OFF	622	0	317	0.00	0	65.2	65.2	65.2	22.4	22.4
10-11 AM	862	0.0	440	0.0	OFF	862	0	440	0.00	0	64.8	64.8	64.8	19.6	19.6
11A-NOON	1108	0.0	565	0.0	OFF	1108	0	565	0.00	0	64.3	64.3	64.3	17.3	17.3
NOON-1PM	1252	0.0	638	0.0	OFF	1252	0	638	0.00	0	64.0	64.0	64.0	16.0	16.0
1-2 PM	1259	0.0	642	0.0	OFF	1259	0	642	0.00	0	64.0	64.0	64.0	15.9	15.9
2-3 PM	1306	0.0	667	0.0	OFF	1306	0	667	0.00	0	64.0	64.0	64.0	15.5	15.5
3-4 PM	1244	0.0	635	0.0	OFF	1244	0	635	0.00	0	64.1	64.1	64.1	16.0	16.0
4-5 PM	1123	0.0	573	0.0	OFF	1123	0	573	0.00	0	64.3	64.3	64.3	17.1	17.1
5-6 PM	1013	0.0	517	0.0	OFF	1013	0	517	0.00	0	64.5	64.5	64.5	18.2	18.2
6-7 PM	882	0.0	450	0.0	OFF	882	0	450	0.00	0	64.8	64.8	64.8	19.4	19.4
7-8 PM	709	0.0	362	0.0	1500	709	0	362	0.49	0	65.1	53.2	42.7	21.4	21.4
8-9 PM	571	0.0	291	0.0	1500	571	0	291	0.48	0	65.3	53.7	43.2	23.0	23.0
9-10 PM	429	0.0	219	0.0	1500	429	0	219	0.46	0	65.6	54.2	43.8	24.7	24.7
10-11 PM	304	0.0	154	0.0	1500	304	0	154	0.45	0	65.8	54.5	44.3	26.2	26.2
11PM-MID	183	0.0	94	0.0	1500	183	0	94	0.44	0	66.1	55.0	44.8	27.6	27.6

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0054
MAIN ROUTE WITH WORKS	0.0052
DIVERSION	0.0418

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$387
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME CLOSURE
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AUGUST
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY NORTHBOUND DIRECTION

