

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

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	263	0.0	129	0.0	1500	263	0	129	0.50	0	70.2	62.3	44.4	30.1	30.1
1-2 AM	143	0.0	68	0.0	1500	143	0	68	0.49	0	70.2	62.5	44.9	31.7	31.7
2-3 AM	111	0.0	58	0.0	1500	111	0	58	0.49	0	70.2	62.6	45.0	32.0	32.0
3-4 AM	126	0.0	46	0.0	1500	126	0	46	0.49	0	70.2	62.6	45.0	32.3	32.3
4-5 AM	184	0.0	66	0.0	1500	184	0	66	0.49	0	70.2	62.5	44.8	31.8	31.8
5-6 AM	365	0.0	84	0.0	1500	365	0	84	0.52	0	70.2	62.2	44.0	31.3	31.3
6-7 AM	567	0.0	156	0.0	1500	567	0	156	0.54	0	70.0	61.7	43.2	29.4	29.4
7-8 AM	922	0.0	248	0.0	1499	922	0	248	0.58	0	69.6	60.9	42.0	27.0	27.0
8-9 AM	1398	0.0	357	0.0	OFF	1398	0	357	0.00	0	69.0	69.0	69.0	24.1	24.1
9-10 AM	1975	0.0	492	0.0	OFF	1975	0	492	0.00	0	68.2	68.2	68.2	20.8	20.8
10-11 AM	2674	0.0	654	0.0	OFF	2674	0	654	0.00	0	67.4	67.4	67.4	17.7	17.7
11A-NOON	2882	0.0	745	0.0	OFF	2882	0	745	0.00	0	67.1	67.1	67.1	16.0	16.0
NOON-1PM	2668	0.0	783	0.0	OFF	2668	0	783	0.00	0	67.4	67.4	67.4	15.3	15.3
1-2 PM	2311	0.0	745	0.0	OFF	2311	0	745	0.00	0	67.9	67.9	67.9	16.0	16.0
2-3 PM	2136	0.0	706	0.0	OFF	2136	0	706	0.00	0	68.1	68.1	68.1	16.7	16.7
3-4 PM	2106	0.0	694	0.0	OFF	2106	0	694	0.00	0	68.1	68.1	68.1	17.0	17.0
4-5 PM	1745	0.0	626	0.0	OFF	1745	0	626	0.00	0	68.6	68.6	68.6	18.3	18.3
5-6 PM	1582	0.0	590	0.0	OFF	1582	0	590	0.00	0	68.7	68.7	68.7	18.9	18.9
6-7 PM	1319	0.0	515	0.0	1500	1319	0	515	0.86	0	69.1	57.1	35.0	20.4	20.4
7-8 PM	1109	0.0	452	0.0	1500	1109	0	452	0.60	0	69.4	60.4	41.3	21.6	21.6
8-9 PM	975	0.0	424	0.0	1500	975	0	424	0.58	0	69.6	60.7	41.8	22.3	22.3
9-10 PM	960	0.0	362	0.0	1500	960	0	362	0.58	0	69.6	60.8	41.8	23.9	23.9
10-11 PM	599	0.0	261	0.0	1500	599	0	261	0.54	0	70.0	61.7	43.2	26.6	26.6
11PM-MID	464	0.0	181	0.0	1500	464	0	181	0.53	0	70.2	62.0	43.7	28.8	28.8

"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	0.0221
MAIN ROUTE WITH WORKS	0.0216
DIVERSION	0.0897

PIA: Personal Injury Accidents

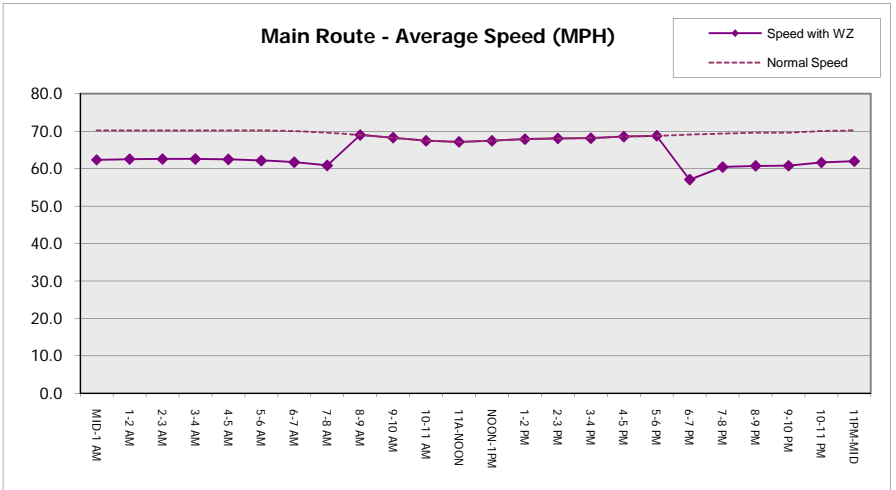
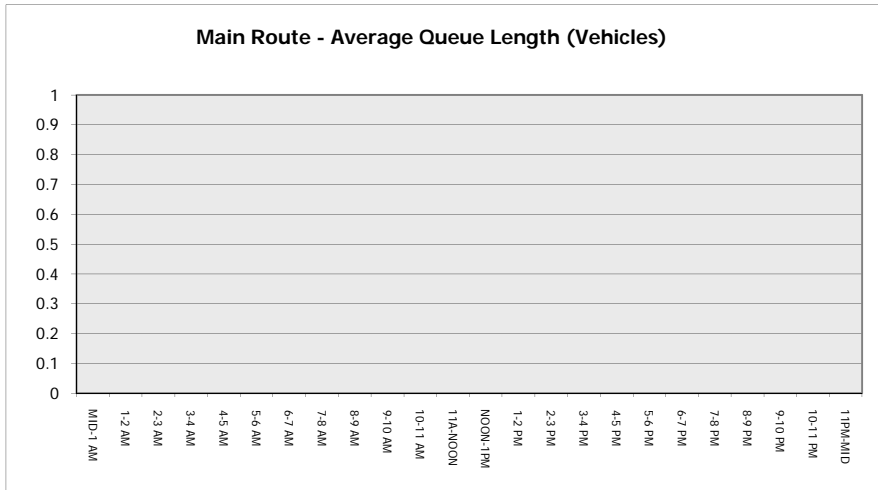
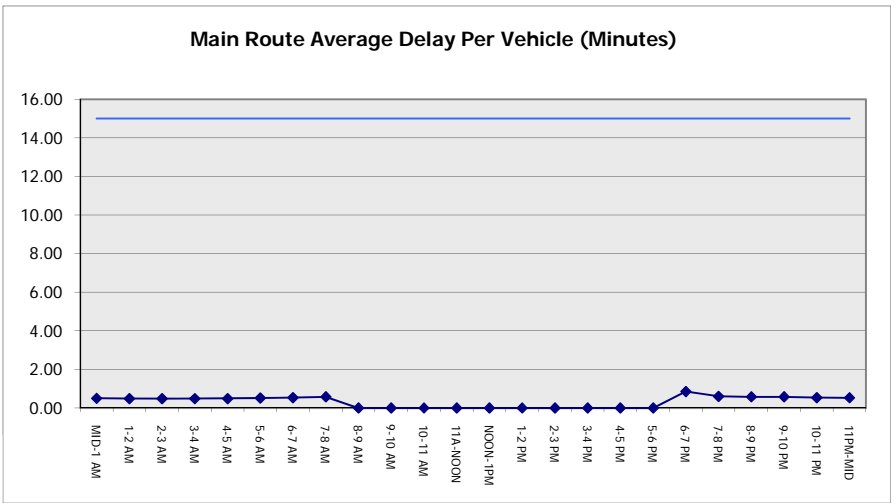
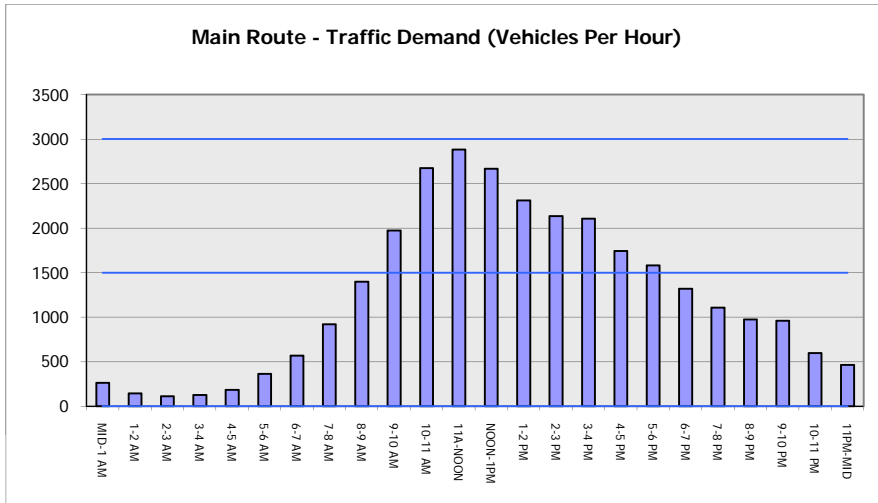
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,166
CONGESTED HOURS PER DAY*	0

*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**

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	AUGUST Analyzed for 2009 Construction Season
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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	392	0.0	94	0.0	1500	392	0	94	0.52	0	70.2	62.1	43.9	31.1	31.1
1-2 AM	223	0.0	71	0.0	1500	223	0	71	0.50	0	70.2	62.4	44.6	31.7	31.7
2-3 AM	194	0.0	56	0.0	1500	194	0	56	0.50	0	70.2	62.5	44.7	32.0	32.0
3-4 AM	155	0.0	51	0.0	1500	155	0	51	0.49	0	70.2	62.5	44.8	32.2	32.2
4-5 AM	181	0.0	66	0.0	1500	181	0	66	0.49	0	70.2	62.5	44.8	31.8	31.8
5-6 AM	334	0.0	150	0.0	1500	334	0	150	0.51	0	70.2	62.2	44.2	29.6	29.6
6-7 AM	573	0.0	261	0.0	1500	573	0	261	0.54	0	70.0	61.7	43.2	26.6	26.6
7-8 AM	848	0.0	358	0.0	1500	848	0	358	0.57	0	69.7	61.0	42.2	24.0	24.0
8-9 AM	1294	0.0	523	0.0	OFF	1294	0	523	0.00	0	69.1	69.1	69.1	20.2	20.2
9-10 AM	1790	0.0	647	0.0	OFF	1790	0	647	0.00	0	68.5	68.5	68.5	17.9	17.9
10-11 AM	2308	0.0	762	0.0	OFF	2308	0	762	0.00	0	67.9	67.9	67.9	15.6	15.6
11A-NOON	2586	0.0	771	0.0	OFF	2586	0	771	0.00	0	67.5	67.5	67.5	15.5	15.5
NOON-1PM	2714	0.0	741	0.0	OFF	2714	0	741	0.00	0	67.4	67.4	67.4	16.1	16.1
1-2 PM	2573	0.0	688	0.0	OFF	2573	0	688	0.00	0	67.6	67.6	67.6	17.1	17.1
2-3 PM	2331	0.0	635	0.0	OFF	2331	0	635	0.00	0	67.8	67.8	67.8	18.1	18.1
3-4 PM	2079	0.0	587	0.0	OFF	2079	0	587	0.00	0	68.1	68.1	68.1	19.0	19.0
4-5 PM	1760	0.0	563	0.0	OFF	1760	0	563	0.00	0	68.6	68.6	68.6	19.4	19.4
5-6 PM	1567	0.0	494	0.0	OFF	1567	0	494	0.00	0	68.8	68.8	68.8	20.8	20.8
6-7 PM	1360	0.0	427	0.0	1500	1360	0	427	0.92	0	69.1	56.4	34.0	22.2	22.2
7-8 PM	1025	0.0	375	0.0	1500	1025	0	375	0.59	0	69.4	60.7	41.6	23.6	23.6
8-9 PM	897	0.0	303	0.0	1500	897	0	303	0.58	0	69.6	60.9	42.0	25.5	25.5
9-10 PM	839	0.0	262	0.0	1500	839	0	262	0.57	0	69.7	61.1	42.2	26.6	26.6
10-11 PM	594	0.0	187	0.0	1500	594	0	187	0.54	0	70.0	61.7	43.2	28.6	28.6
11PM-MID	441	0.0	131	0.0	1500	441	0	131	0.53	0	70.2	62.0	43.7	30.1	30.1

"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	0.0217
MAIN ROUTE WITH WORKS	0.0212
DIVERSION	0.0874

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,171
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**

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY NORTHBOUND DIRECTION

