

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
CONTINUOUS (24 HOUR) 1 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	122	0.0	3000	263	0	122	0.36	0	70.2	64.4	49.7	30.3	30.3
1-2 AM	143	0.0	65	0.0	3000	143	0	65	0.36	0	70.2	64.4	49.7	31.8	31.8
2-3 AM	111	0.0	56	0.0	3000	111	0	56	0.36	0	70.2	64.4	49.7	32.0	32.0
3-4 AM	126	0.0	44	0.0	3000	126	0	44	0.36	0	70.2	64.4	49.7	32.4	32.4
4-5 AM	184	0.0	63	0.0	3000	184	0	63	0.36	0	70.2	64.4	49.7	31.9	31.9
5-6 AM	365	0.0	80	0.0	3000	365	0	80	0.36	0	70.2	64.4	49.7	31.4	31.4
6-7 AM	567	0.0	148	0.0	3000	567	0	148	0.36	0	70.0	64.3	49.7	29.6	29.6
7-8 AM	922	0.0	236	0.0	3000	922	0	236	0.35	0	69.6	64.0	49.7	27.3	27.3
8-9 AM	1398	0.0	340	0.0	3000	1398	0	340	0.34	0	69.0	63.7	49.7	24.5	24.5
9-10 AM	1975	0.0	468	0.0	3000	1975	0	468	0.34	0	68.2	63.2	49.7	21.3	21.3
10-11 AM	2674	0.0	623	0.0	3000	2674	0	623	0.52	0	67.4	60.0	43.0	18.3	18.3
11A-NOON	2882	0.0	709	0.0	3000	2882	0	709	0.65	0	67.1	58.1	39.1	16.6	16.6
NOON-1PM	2668	0.0	745	0.0	3000	2668	0	745	0.51	0	67.4	60.1	43.1	16.0	16.0
1-2 PM	2311	0.0	709	0.0	3000	2311	0	709	0.33	0	67.9	62.8	49.7	16.6	16.6
2-3 PM	2136	0.0	672	0.0	3000	2136	0	672	0.33	0	68.1	63.0	49.7	17.4	17.4
3-4 PM	2106	0.0	661	0.0	3000	2106	0	661	0.33	0	68.1	63.0	49.7	17.6	17.6
4-5 PM	1745	0.0	596	0.0	3000	1745	0	596	0.34	0	68.6	63.3	49.7	18.8	18.8
5-6 PM	1582	0.0	562	0.0	3000	1582	0	562	0.34	0	68.7	63.5	49.7	19.5	19.5
6-7 PM	1319	0.0	490	0.0	3000	1319	0	490	0.35	0	69.1	63.7	49.7	20.9	20.9
7-8 PM	1109	0.0	430	0.0	3000	1109	0	430	0.35	0	69.4	63.8	49.7	22.1	22.1
8-9 PM	975	0.0	404	0.0	3000	975	0	404	0.35	0	69.6	64.0	49.7	22.9	22.9
9-10 PM	960	0.0	345	0.0	3000	960	0	345	0.35	0	69.6	64.0	49.7	24.4	24.4
10-11 PM	599	0.0	248	0.0	3000	599	0	248	0.36	0	70.0	64.3	49.7	27.0	27.0
11PM-MID	464	0.0	172	0.0	3000	464	0	172	0.36	0	70.2	64.4	49.7	29.0	29.0

*----- 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	0.0221
MAIN ROUTE WITH WORKS	0.0202
DIVERSION	0.0854

PIA: Personal Injury Accidents

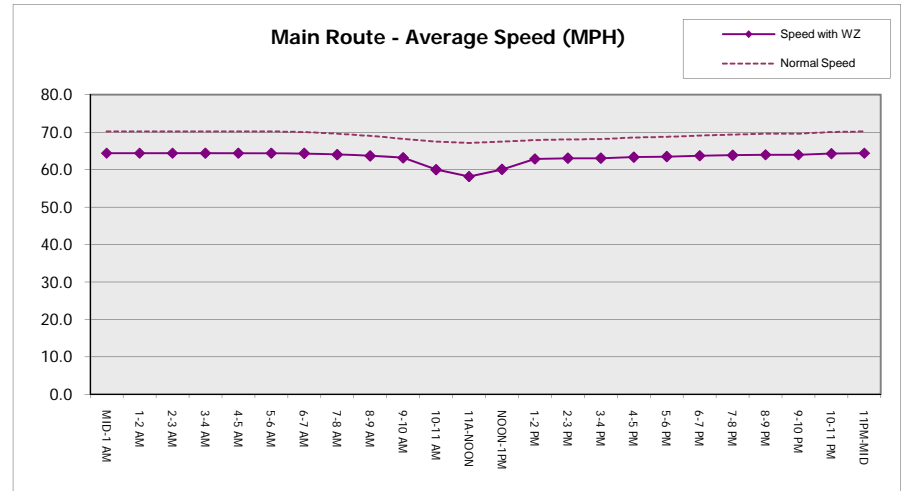
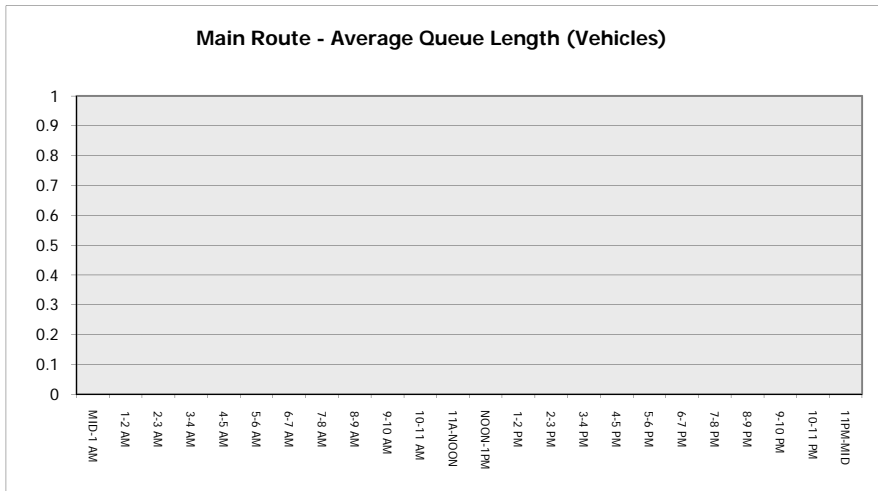
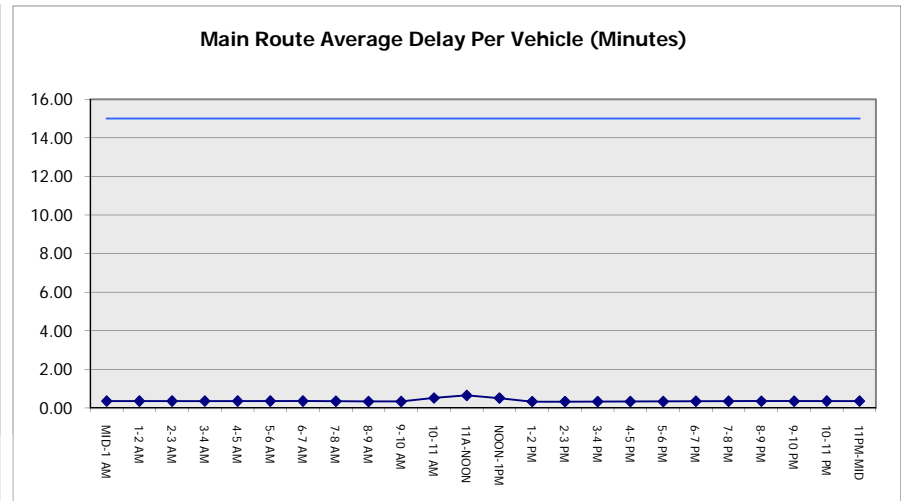
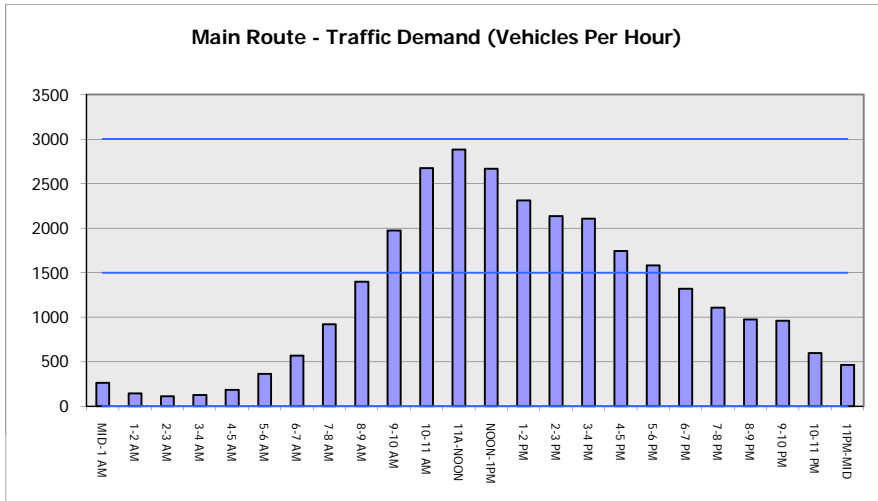
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$2,972
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
 CONTINUOUS (24 HOUR) 1 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**



<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)</b> <b>CONTINUOUS (24 HOUR) 1 LANE CLOSURE</b> <b>DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>AUGUST</b> Analyzed for 2009 Construction Season
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<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
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	90	0.0	3000	392	0	90	0.36	0	70.2	64.4	49.7	31.2	31.2
1-2 AM	223	0.0	68	0.0	3000	223	0	68	0.36	0	70.2	64.4	49.7	31.7	31.7
2-3 AM	194	0.0	54	0.0	3000	194	0	54	0.36	0	70.2	64.4	49.7	32.1	32.1
3-4 AM	155	0.0	48	0.0	3000	155	0	48	0.36	0	70.2	64.4	49.7	32.2	32.2
4-5 AM	181	0.0	63	0.0	3000	181	0	63	0.36	0	70.2	64.4	49.7	31.9	31.9
5-6 AM	334	0.0	143	0.0	3000	334	0	143	0.36	0	70.2	64.4	49.7	29.7	29.7
6-7 AM	573	0.0	248	0.0	3000	573	0	248	0.36	0	70.0	64.3	49.7	27.0	27.0
7-8 AM	848	0.0	341	0.0	3000	848	0	341	0.35	0	69.7	64.1	49.7	24.5	24.5
8-9 AM	1294	0.0	498	0.0	3000	1294	0	498	0.35	0	69.1	63.7	49.7	20.7	20.7
9-10 AM	1790	0.0	616	0.0	3000	1790	0	616	0.34	0	68.5	63.3	49.7	18.4	18.4
10-11 AM	2308	0.0	726	0.0	3000	2308	0	726	0.33	0	67.9	62.8	49.7	16.3	16.3
11A-NOON	2586	0.0	734	0.0	3000	2586	0	734	0.46	0	67.5	60.9	44.8	16.2	16.2
NOON-1PM	2714	0.0	705	0.0	3000	2714	0	705	0.54	0	67.4	59.6	42.2	16.8	16.8
1-2 PM	2573	0.0	655	0.0	3000	2573	0	655	0.45	0	67.6	61.0	45.1	17.7	17.7
2-3 PM	2331	0.0	604	0.0	3000	2331	0	604	0.33	0	67.8	62.8	49.7	18.7	18.7
3-4 PM	2079	0.0	559	0.0	3000	2079	0	559	0.33	0	68.1	63.1	49.7	19.6	19.6
4-5 PM	1760	0.0	536	0.0	3000	1760	0	536	0.34	0	68.6	63.3	49.7	20.0	20.0
5-6 PM	1567	0.0	470	0.0	3000	1567	0	470	0.34	0	68.8	63.5	49.7	21.2	21.2
6-7 PM	1360	0.0	407	0.0	3000	1360	0	407	0.34	0	69.1	63.7	49.7	22.7	22.7
7-8 PM	1025	0.0	357	0.0	3000	1025	0	357	0.35	0	69.4	64.0	49.7	24.0	24.0
8-9 PM	897	0.0	288	0.0	3000	897	0	288	0.35	0	69.6	64.0	49.7	25.9	25.9
9-10 PM	839	0.0	249	0.0	3000	839	0	249	0.35	0	69.7	64.1	49.7	27.0	27.0
10-11 PM	594	0.0	178	0.0	3000	594	0	178	0.36	0	70.0	64.3	49.7	28.8	28.8
11PM-MID	441	0.0	125	0.0	3000	441	0	125	0.36	0	70.2	64.4	49.7	30.2	30.2

*----- 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	0.0198
DIVERSION	0.0832

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$2,755
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) 1 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**

