

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
CONTINUOUS (24 HOUR) 1 LANE CLOSURE  
DIVERSION ROUTE: BUS 51 - STH 52**

**OCTOBER**

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	229	0.0	100	0.0	3000	229	0	100	0.36	0	70.2	64.4	49.7	30.9	30.9
1-2 AM	155	0.0	61	0.0	3000	155	0	61	0.36	0	70.2	64.4	49.7	31.9	31.9
2-3 AM	116	0.0	58	0.0	3000	116	0	58	0.36	0	70.2	64.4	49.7	32.0	32.0
3-4 AM	149	0.0	44	0.0	3000	149	0	44	0.36	0	70.2	64.4	49.7	32.4	32.4
4-5 AM	175	0.0	73	0.0	3000	175	0	73	0.36	0	70.2	64.4	49.7	31.6	31.6
5-6 AM	342	0.0	90	0.0	3000	342	0	90	0.36	0	70.2	64.4	49.7	31.2	31.2
6-7 AM	656	0.0	152	0.0	3000	656	0	152	0.36	0	69.9	64.2	49.7	29.5	29.5
7-8 AM	947	0.0	230	0.0	3000	947	0	230	0.35	0	69.6	64.0	49.7	27.4	27.4
8-9 AM	1273	0.0	359	0.0	3000	1273	0	359	0.35	0	69.2	63.7	49.7	24.0	24.0
9-10 AM	1570	0.0	483	0.0	3000	1570	0	483	0.34	0	68.8	63.5	49.7	21.0	21.0
10-11 AM	1847	0.0	656	0.0	3000	1847	0	656	0.34	0	68.4	63.3	49.7	17.7	17.7
11A-NOON	1897	0.0	699	0.0	3000	1897	0	699	0.34	0	68.4	63.2	49.7	16.9	16.9
NOON-1PM	2037	0.0	782	0.0	3000	2037	0	782	0.33	0	68.2	63.1	49.7	15.3	15.3
1-2 PM	1833	0.0	740	0.0	3000	1833	0	740	0.34	0	68.4	63.3	49.7	16.1	16.1
2-3 PM	1965	0.0	766	0.0	3000	1965	0	766	0.34	0	68.3	63.2	49.7	15.6	15.6
3-4 PM	1882	0.0	775	0.0	3000	1882	0	775	0.34	0	68.4	63.2	49.7	15.4	15.4
4-5 PM	1776	0.0	726	0.0	3000	1776	0	726	0.34	0	68.5	63.3	49.7	16.3	16.3
5-6 PM	1481	0.0	693	0.0	3000	1481	0	693	0.34	0	68.9	63.6	49.7	17.0	17.0
6-7 PM	1416	0.0	600	0.0	3000	1416	0	600	0.34	0	69.0	63.6	49.7	18.8	18.8
7-8 PM	1111	0.0	483	0.0	3000	1111	0	483	0.35	0	69.4	63.8	49.7	21.0	21.0
8-9 PM	994	0.0	427	0.0	3000	994	0	427	0.35	0	69.5	64.0	49.7	22.2	22.2
9-10 PM	748	0.0	316	0.0	3000	748	0	316	0.35	0	69.8	64.1	49.7	25.2	25.2
10-11 PM	493	0.0	216	0.0	3000	493	0	216	0.36	0	70.1	64.4	49.7	27.8	27.8
11PM-MID	371	0.0	155	0.0	3000	371	0	155	0.36	0	70.2	64.4	49.7	29.4	29.4

*----- 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	0.0190
MAIN ROUTE WITH WORKS	0.0174
DIVERSION	0.0920

PIA: Personal Injury Accidents

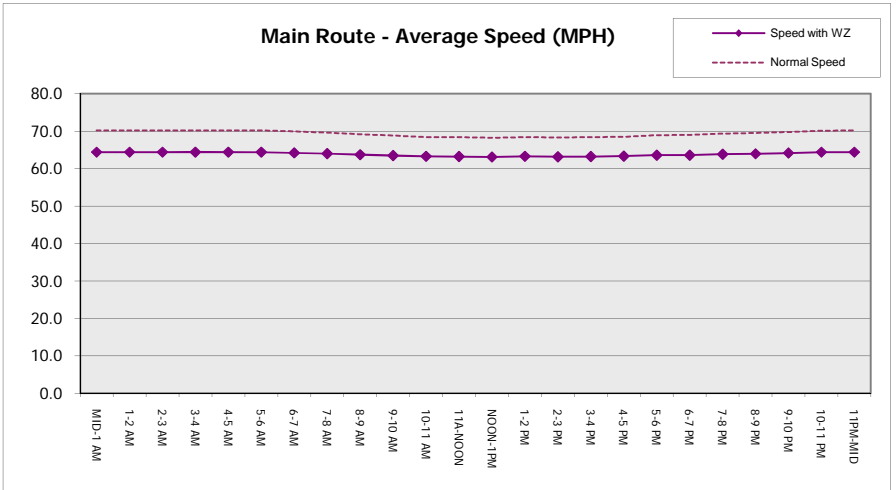
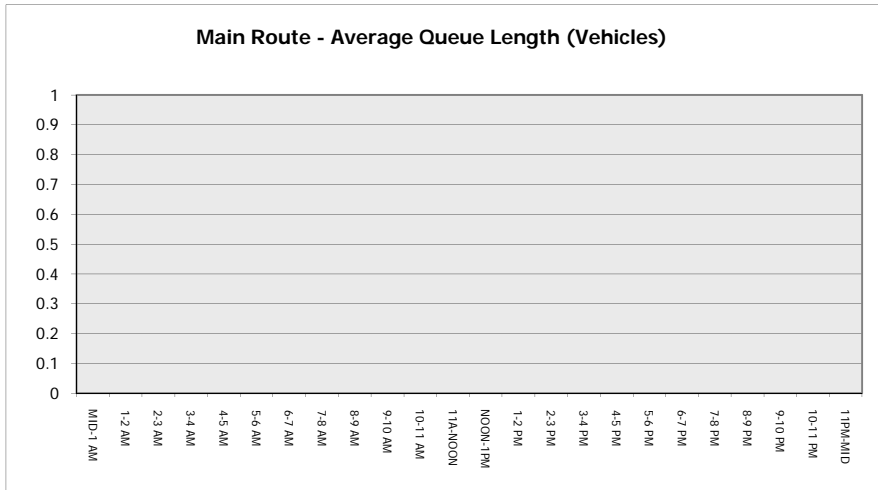
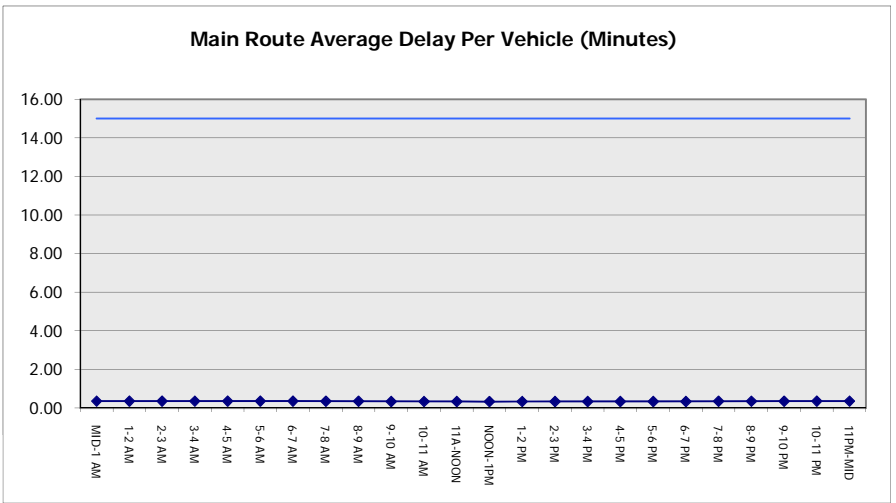
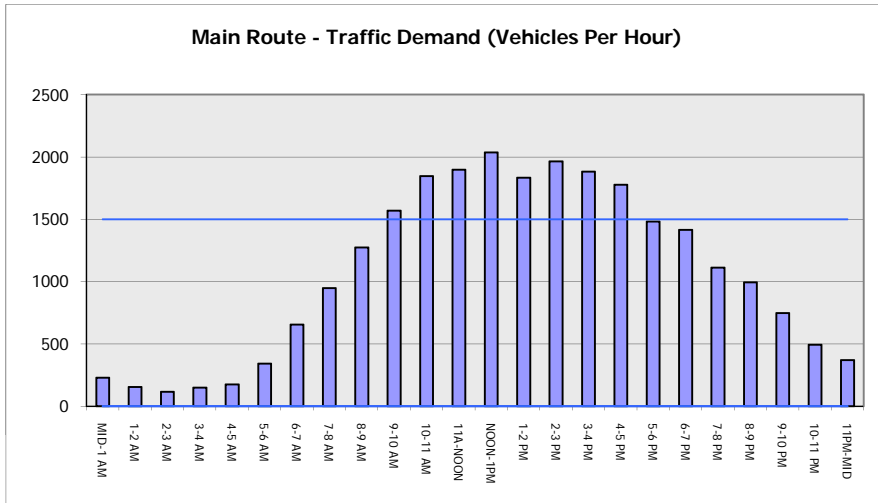
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$2,129
CONGESTED HOURS PER DAY*	0

\*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**

**OCTOBER**  
 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>OCTOBER</b>
	Analyzed for 2009 Construction Season

**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	338	0.0	84	0.0	3000	338	0	84	0.36	0	70.2	64.4	49.7	31.3	31.3
1-2 AM	203	0.0	65	0.0	3000	203	0	65	0.36	0	70.2	64.4	49.7	31.8	31.8
2-3 AM	195	0.0	61	0.0	3000	195	0	61	0.36	0	70.2	64.4	49.7	31.9	31.9
3-4 AM	163	0.0	49	0.0	3000	163	0	49	0.36	0	70.2	64.4	49.7	32.2	32.2
4-5 AM	195	0.0	63	0.0	3000	195	0	63	0.36	0	70.2	64.4	49.7	31.9	31.9
5-6 AM	325	0.0	146	0.0	3000	325	0	146	0.36	0	70.2	64.4	49.7	29.7	29.7
6-7 AM	608	0.0	255	0.0	3000	608	0	255	0.36	0	70.0	64.3	49.7	26.8	26.8
7-8 AM	898	0.0	354	0.0	3000	898	0	354	0.35	0	69.6	64.0	49.7	24.2	24.2
8-9 AM	1274	0.0	540	0.0	3000	1274	0	540	0.35	0	69.2	63.7	49.7	19.9	19.9
9-10 AM	1612	0.0	672	0.0	3000	1612	0	672	0.34	0	68.7	63.5	49.7	17.4	17.4
10-11 AM	1900	0.0	715	0.0	3000	1900	0	715	0.34	0	68.4	63.2	49.7	16.5	16.5
11A-NOON	1991	0.0	748	0.0	3000	1991	0	748	0.33	0	68.2	63.2	49.7	15.9	15.9
NOON-1PM	1991	0.0	728	0.0	3000	1991	0	728	0.33	0	68.2	63.2	49.7	16.3	16.3
1-2 PM	1922	0.0	668	0.0	3000	1922	0	668	0.34	0	68.4	63.2	49.7	17.5	17.5
2-3 PM	1790	0.0	649	0.0	3000	1790	0	649	0.34	0	68.5	63.3	49.7	17.8	17.8
3-4 PM	1809	0.0	614	0.0	3000	1809	0	614	0.34	0	68.5	63.3	49.7	18.5	18.5
4-5 PM	1758	0.0	565	0.0	3000	1758	0	565	0.34	0	68.6	63.3	49.7	19.4	19.4
5-6 PM	1575	0.0	518	0.0	3000	1575	0	518	0.34	0	68.7	63.5	49.7	20.4	20.4
6-7 PM	1409	0.0	457	0.0	3000	1409	0	457	0.34	0	69.0	63.6	49.7	21.5	21.5
7-8 PM	1155	0.0	375	0.0	3000	1155	0	375	0.35	0	69.3	63.8	49.7	23.6	23.6
8-9 PM	878	0.0	287	0.0	3000	878	0	287	0.35	0	69.6	64.1	49.7	25.9	25.9
9-10 PM	724	0.0	230	0.0	3000	724	0	230	0.35	0	69.9	64.2	49.7	27.4	27.4
10-11 PM	526	0.0	190	0.0	3000	526	0	190	0.36	0	70.0	64.3	49.7	28.5	28.5
11PM-MID	411	0.0	127	0.0	3000	411	0	127	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	0.0192
MAIN ROUTE WITH WORKS	0.0175
DIVERSION	0.0870

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$2,140
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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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

