

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
NIGHTTIME 2 LANE CLOSURE  
DIVERSION ROUTE: BUS 51 - STH 52**

**OCTOBER**  
Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**  
MON-THUR 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	149	0.0	55	0.0	1500	149	0	55	0.49	0	70.2	62.5	44.9	32.1	32.1
1-2 AM	99	0.0	40	0.0	1500	99	0	40	0.48	0	70.2	62.6	45.1	32.5	32.5
2-3 AM	103	0.0	43	0.0	1500	103	0	43	0.48	0	70.2	62.6	45.1	32.4	32.4
3-4 AM	188	0.0	51	0.0	1500	188	0	51	0.50	0	70.2	62.5	44.7	32.2	32.2
4-5 AM	370	0.0	124	0.0	1500	370	0	124	0.52	0	70.2	62.2	44.0	30.2	30.2
5-6 AM	1003	0.0	276	0.0	OFF	1003	0	276	0.00	0	69.5	69.5	69.5	26.2	26.2
6-7 AM	1889	0.0	626	0.0	OFF	1889	0	626	0.00	0	68.4	68.4	68.4	18.3	18.3
7-8 AM	1822	0.0	739	0.0	OFF	1822	0	739	0.00	0	68.5	68.5	68.5	16.1	16.1
8-9 AM	1529	0.0	577	0.0	OFF	1529	0	577	0.00	0	68.8	68.8	68.8	19.2	19.2
9-10 AM	1502	0.0	526	0.0	OFF	1502	0	526	0.00	0	68.9	68.9	68.9	20.2	20.2
10-11 AM	1629	0.0	594	0.0	OFF	1629	0	594	0.00	0	68.7	68.7	68.7	18.9	18.9
11A-NOON	1733	0.0	665	0.0	OFF	1733	0	665	0.00	0	68.6	68.6	68.6	17.5	17.5
NOON-1PM	1800	0.0	698	0.0	OFF	1800	0	698	0.00	0	68.5	68.5	68.5	16.9	16.9
1-2 PM	1861	0.0	744	0.0	OFF	1861	0	744	0.00	0	68.4	68.4	68.4	16.0	16.0
2-3 PM	2114	0.0	950	0.0	OFF	2114	0	950+	0.00	0	68.1	68.1	68.1	12.6	12.6
3-4 PM	2558	0.0	1125	0.0	OFF	2558	0	1125+	0.00	0	67.6	67.6	67.6	11.2	11.2
4-5 PM	2723	0.0	1249	0.0	OFF	2723	0	1249+	0.00	0	67.4	67.4	67.4	11.2	11.2
5-6 PM	2149	0.0	1130	0.0	OFF	2149	0	1130+	0.00	0	68.1	68.1	68.1	11.2	11.2
6-7 PM	1386	0.0	720	0.0	OFF	1386	0	720	0.00	0	69.0	69.0	69.0	16.5	16.5
7-8 PM	1045	0.0	512	0.0	1500	1045	0	512	0.59	0	69.4	60.6	41.5	20.4	20.4
8-9 PM	851	0.0	386	0.0	1500	851	0	386	0.57	0	69.7	61.0	42.2	23.3	23.3
9-10 PM	620	0.0	284	0.0	1500	620	0	284	0.55	0	70.0	61.6	43.0	26.0	26.0
10-11 PM	475	0.0	209	0.0	1500	475	0	209	0.53	0	70.2	62.0	43.6	28.0	28.0
11PM-MID	255	0.0	153	0.0	1500	255	0	153	0.50	0	70.2	62.3	44.5	29.5	29.5

"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 (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	0.0223
MAIN ROUTE WITH WORKS	0.0220
DIVERSION	0.1185

PIA: Personal Injury Accidents

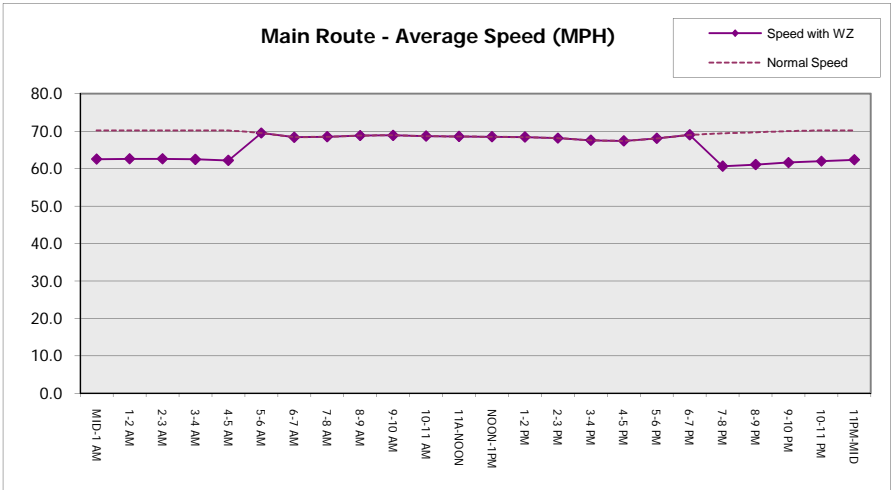
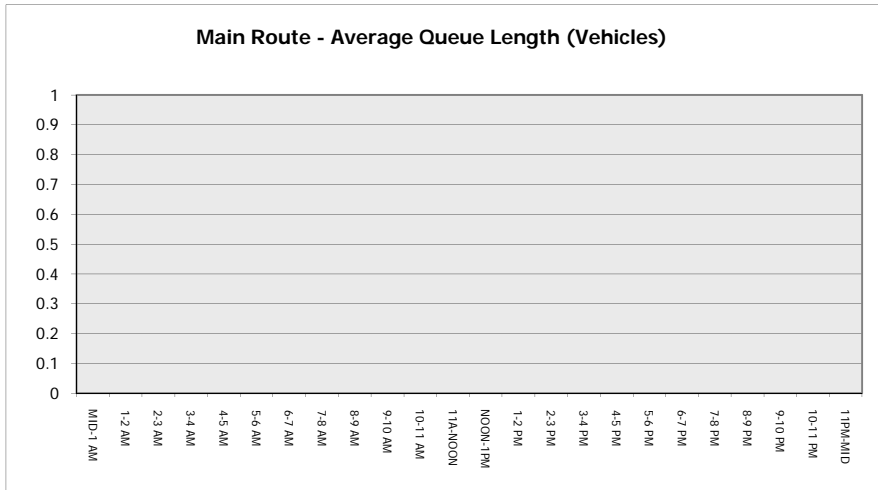
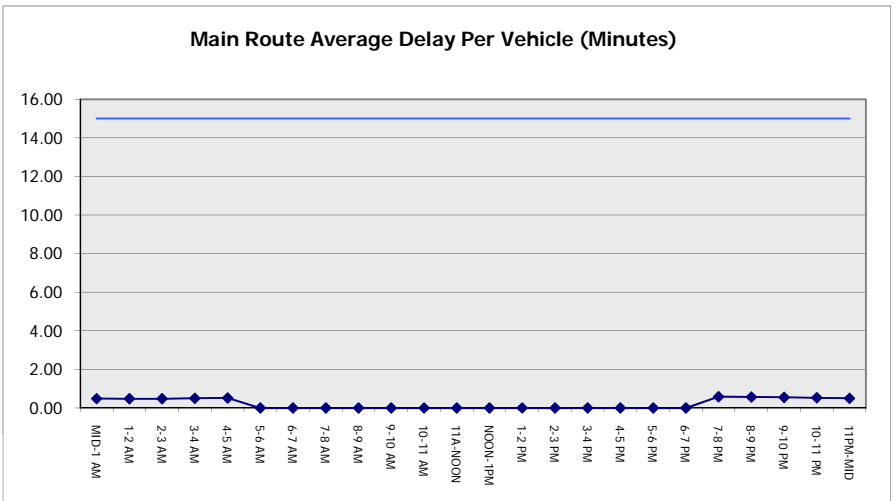
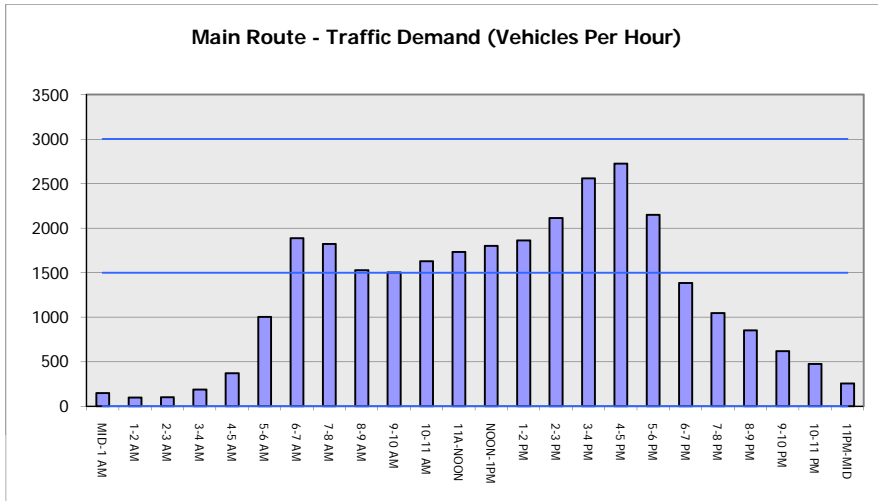
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$464
CONGESTED HOURS PER DAY*	0

\*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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR SOUTHBOUND DIRECTION**



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

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
MON-THUR	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	179	0.0	48	0.0	1500	179	0	48	0.49	0	70.2	62.5	44.8	32.2	32.2
1-2 AM	123	0.0	41	0.0	1500	123	0	41	0.49	0	70.2	62.6	45.0	32.4	32.4
2-3 AM	124	0.0	42	0.0	1500	124	0	42	0.49	0	70.2	62.6	45.0	32.4	32.4
3-4 AM	182	0.0	63	0.0	1500	182	0	63	0.49	0	70.2	62.5	44.8	31.9	31.9
4-5 AM	334	0.0	145	0.0	1500	334	0	145	0.51	0	70.2	62.2	44.2	29.7	29.7
5-6 AM	863	0.0	398	0.0	OFF	863	0	398	0.00	0	69.7	69.7	69.7	23.0	23.0
6-7 AM	1928	0.0	872	0.0	OFF	1928	0	872+	0.00	0	68.3	68.3	68.3	13.4	13.4
7-8 AM	2456	0.0	1200	0.0	OFF	2456	0	1200+	0.00	0	67.7	67.7	67.7	11.2	11.2
8-9 AM	1644	0.0	850	0.0	OFF	1644	0	850+	0.00	0	68.7	68.7	68.7	13.8	13.8
9-10 AM	1540	0.0	652	0.0	OFF	1540	0	652	0.00	0	68.8	68.8	68.8	17.8	17.8
10-11 AM	1549	0.0	629	0.0	OFF	1549	0	629	0.00	0	68.8	68.8	68.8	18.2	18.2
11A-NOON	1625	0.0	651	0.0	OFF	1625	0	651	0.00	0	68.7	68.7	68.7	17.8	17.8
NOON-1PM	1661	0.0	665	0.0	OFF	1661	0	665	0.00	0	68.7	68.7	68.7	17.5	17.5
1-2 PM	1694	0.0	678	0.0	OFF	1694	0	678	0.00	0	68.6	68.6	68.6	17.3	17.3
2-3 PM	2008	0.0	768	0.0	OFF	2008	0	768	0.00	0	68.2	68.2	68.2	15.5	15.5
3-4 PM	2317	0.0	929	0.0	OFF	2317	0	929+	0.00	0	67.9	67.9	67.9	12.8	12.8
4-5 PM	2341	0.0	935	0.0	OFF	2341	0	935+	0.00	0	67.8	67.8	67.8	12.7	12.7
5-6 PM	2108	0.0	852	0.0	OFF	2108	0	852+	0.00	0	68.1	68.1	68.1	13.8	13.8
6-7 PM	1393	0.0	562	0.0	OFF	1393	0	562	0.00	0	69.0	69.0	69.0	19.5	19.5
7-8 PM	954	0.0	366	0.0	1500	954	0	366	0.58	0	69.6	60.8	41.9	23.8	23.8
8-9 PM	799	0.0	257	0.0	1500	799	0	257	0.57	0	69.7	61.2	42.4	26.7	26.7
9-10 PM	619	0.0	218	0.0	1500	619	0	218	0.55	0	70.0	61.6	43.0	27.8	27.8
10-11 PM	420	0.0	185	0.0	1500	420	0	185	0.52	0	70.2	62.1	43.8	28.6	28.6
11PM-MID	283	0.0	111	0.0	1500	283	0	111	0.51	0	70.2	62.3	44.3	30.6	30.6

"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	0.0218
MAIN ROUTE WITH WORKS	0.0215
DIVERSION	0.1151

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$444
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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR NORTHBOUND DIRECTION**

