

USH 51: CTH U TO STH 29 W (MARATHON COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	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		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE		
MID-1 AM	120	0.0	OFF	120	0	0.00	0	66.1	66.1	66.1	
1-2 AM	67	0.0	OFF	67	0	0.00	0	66.3	66.3	66.3	
2-3 AM	56	0.0	OFF	56	0	0.00	0	66.3	66.3	66.3	
3-4 AM	49	0.0	OFF	49	0	0.00	0	66.3	66.3	66.3	
4-5 AM	57	0.0	OFF	57	0	0.00	0	66.3	66.3	66.3	
5-6 AM	93	0.0	OFF	93	0	0.00	0	66.2	66.2	66.2	
6-7 AM	162	0.0	OFF	162	0	0.00	0	66.1	66.1	66.1	
7-8 AM	293	0.0	OFF	293	0	0.00	0	65.8	65.8	65.8	
8-9 AM	513	0.0	OFF	513	0	0.00	0	65.5	65.5	65.5	
9-10 AM	765	0.0	1500	765	0	0.50	0	65.0	50.6	42.5	
10-11 AM	1140	0.0	1499	1140	0	0.59	0	64.3	48.1	39.6	
11AM-NOON	1450	0.0	1499	1450	0	1.01	1	63.7	40.8	32.0	
NOON-1PM	1640	0.0	1500	1640	0	3.18	67	63.3	22.9	30.8	
1-2 PM	1741	0.0	1500	1741	0	10.48	263	63.2	10.8	30.8	
2-3 PM	1731	0.0	1499	1527	205	16.84+	427	63.2	8.6	30.8	
3-4 PM	1653	0.0	1500	1503	150	16.95+	429	63.3	8.6	30.8	
4-5 PM	1485	0.0	1500	1482	4	16.60+	420	63.6	8.6	30.8	
5-6 PM	1231	0.0	1499	1231	0	10.94	279	64.1	10.7	31.6	
6-7 PM	980	0.0	1500	980	0	0.88	18	64.6	43.0	41.4	
7-8 PM	741	0.0	OFF	741	0	0.00	0	65.0	65.0	65.0	
8-9 PM	514	0.0	OFF	514	0	0.00	0	65.5	65.5	65.5	
9-10 PM	362	0.0	OFF	362	0	0.00	0	65.7	65.7	65.7	
10-11 PM	229	0.0	OFF	229	0	0.00	0	66.0	66.0	66.0	
11PM-MID	119	0.0	OFF	119	0	0.00	0	66.1	66.1	66.1	

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

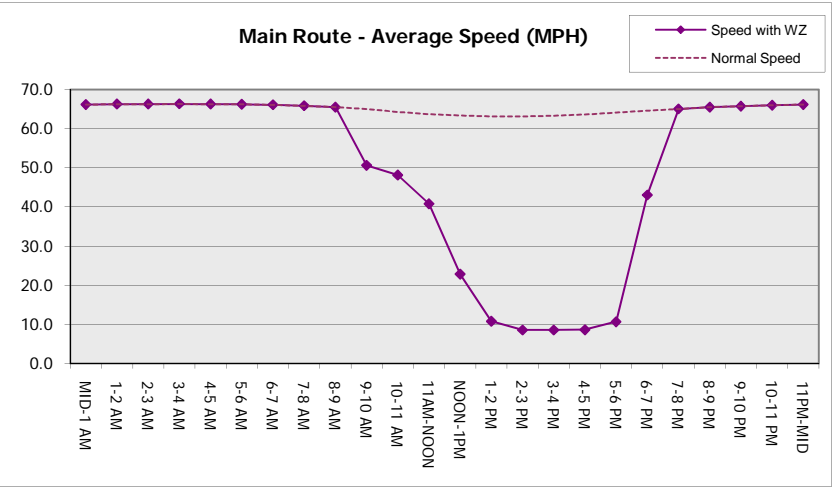
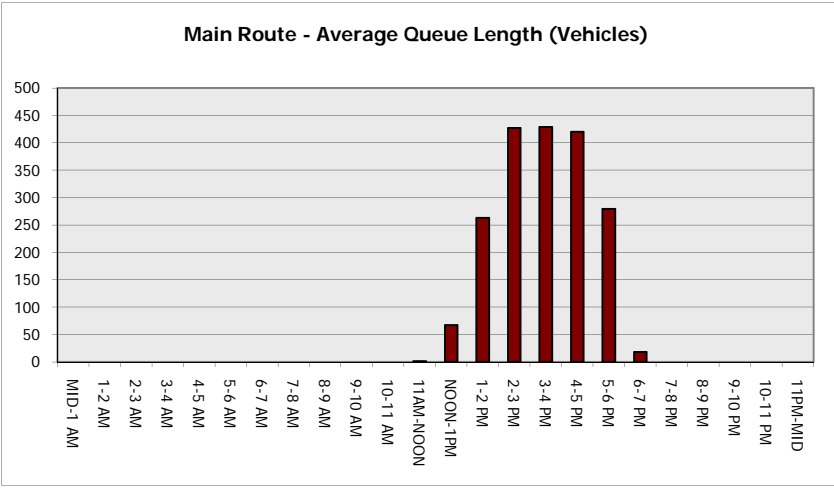
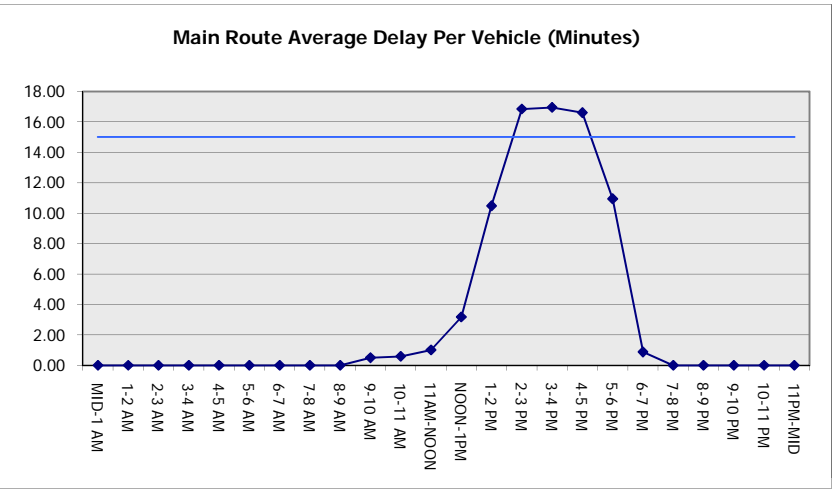
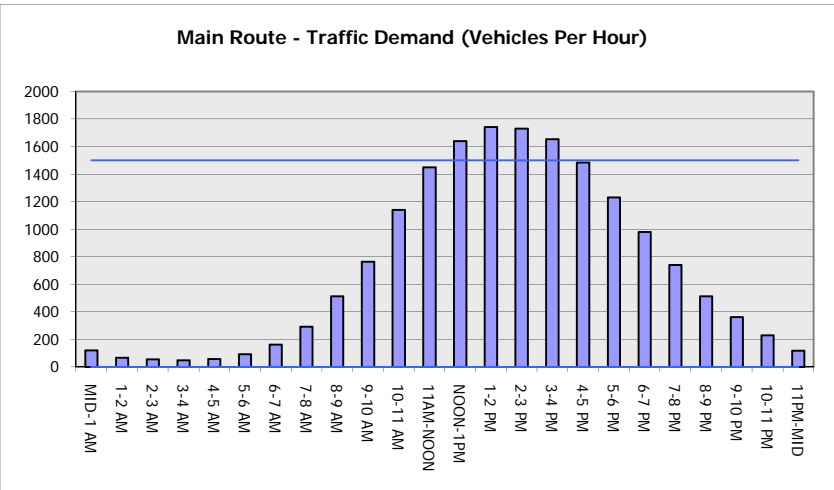
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0052
MAIN ROUTE WITH WORKS	0.0042
'DIVERSION'	0.0003
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$34,639
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



USH 51: CTH U TO STH 29 W (MARATHON COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	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 ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	116	0.0	OFF	116	0	0.00	0	66.2	66.2	66.2
1-2 AM	69	0.0	OFF	69	0	0.00	0	66.3	66.3	66.3
2-3 AM	61	0.0	OFF	61	0	0.00	0	66.3	66.3	66.3
3-4 AM	44	0.0	OFF	44	0	0.00	0	66.3	66.3	66.3
4-5 AM	43	0.0	OFF	43	0	0.00	0	66.3	66.3	66.3
5-6 AM	71	0.0	OFF	71	0	0.00	0	66.3	66.3	66.3
6-7 AM	140	0.0	OFF	140	0	0.00	0	66.1	66.1	66.1
7-8 AM	191	0.0	OFF	191	0	0.00	0	66.0	66.0	66.0
8-9 AM	315	0.0	OFF	315	0	0.00	0	65.8	65.8	65.8
9-10 AM	486	0.0	1500	486	0	0.47	0	65.5	51.5	43.5
10-11 AM	672	0.0	1500	672	0	0.49	0	65.1	50.9	42.8
11AM-NOON	865	0.0	1500	865	0	0.51	0	64.8	50.3	42.2
NOON-1PM	977	0.0	1500	977	0	0.52	0	64.6	49.9	41.7
1-2 PM	983	0.0	1500	983	0	0.52	0	64.6	49.9	41.7
2-3 PM	1020	0.0	1500	1020	0	0.52	0	64.5	49.8	41.6
3-4 PM	971	0.0	1500	971	0	0.52	0	64.6	50.0	41.8
4-5 PM	877	0.0	1500	877	0	0.51	0	64.8	50.2	42.1
5-6 PM	792	0.0	1500	792	0	0.50	0	64.9	50.5	42.4
6-7 PM	689	0.0	1500	689	0	0.49	0	65.1	50.9	42.8
7-8 PM	554	0.0	OFF	554	0	0.00	0	65.3	65.3	65.3
8-9 PM	446	0.0	OFF	446	0	0.00	0	65.6	65.6	65.6
9-10 PM	336	0.0	OFF	336	0	0.00	0	65.8	65.8	65.8
10-11 PM	237	0.0	OFF	237	0	0.00	0	66.0	66.0	66.0
11PM-MID	143	0.0	OFF	143	0	0.00	0	66.1	66.1	66.1

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

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0034
MAIN ROUTE WITH WORKS	0.0028
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,201
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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