

**USH 51: CTH U TO STH 29 W (MARATHON COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

OCTOBER

Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	85	0.0	1500	85	0	0.43	0	66.2	53.0	45.1
1-2 AM	49	0.0	1500	49	0	0.43	0	66.3	53.1	45.3
2-3 AM	47	0.0	1500	47	0	0.43	0	66.3	53.1	45.3
3-4 AM	83	0.0	1500	83	0	0.43	0	66.2	53.0	45.1
4-5 AM	136	0.0	1500	136	0	0.44	0	66.1	52.8	45.0
5-6 AM	346	0.0	1500	346	0	0.46	0	65.8	52.0	44.1
6-7 AM	760	0.0	1500	760	0	0.50	0	65.0	50.7	42.5
7-8 AM	821	0.0	1500	821	0	0.50	0	64.8	50.4	42.3
8-9 AM	727	0.0	1500	727	0	0.49	0	65.0	50.7	42.7
9-10 AM	742	0.0	1500	742	0	0.49	0	65.0	50.7	42.6
10-11 AM	835	0.0	1500	835	0	0.50	0	64.8	50.4	42.3
11AM-NOON	901	0.0	1500	901	0	0.51	0	64.7	50.2	42.0
NOON-1PM	991	0.0	1500	991	0	0.52	0	64.5	49.9	41.7
1-2 PM	1009	0.0	1500	1009	0	0.52	0	64.5	49.9	41.7
2-3 PM	1162	0.0	1500	1162	0	0.59	0	64.2	48.3	39.7
3-4 PM	1321	0.0	1500	1321	0	0.79	0	63.9	44.3	35.0
4-5 PM	1407	0.0	1500	1407	0	0.90	0	63.8	42.4	32.8
5-6 PM	1242	0.0	1500	1242	0	0.69	0	64.1	46.1	37.1
6-7 PM	873	0.0	1500	873	0	0.51	0	64.8	50.3	42.1
7-8 PM	637	0.0	1500	637	0	0.48	0	65.2	51.0	43.0
8-9 PM	486	0.0	1500	486	0	0.47	0	65.5	51.5	43.5
9-10 PM	379	0.0	1500	379	0	0.46	0	65.7	51.9	44.0
10-11 PM	274	0.0	1500	274	0	0.45	0	65.9	52.3	44.4
11PM-MID	181	0.0	1500	181	0	0.44	0	66.1	52.7	44.8

----- 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	0.0047
MAIN ROUTE WITH WORKS	0.0037
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

ROAD USER COSTS PER DAY	\$1,968
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

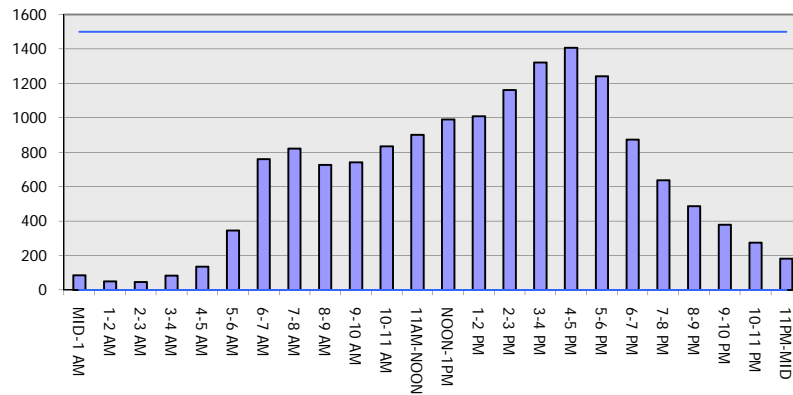
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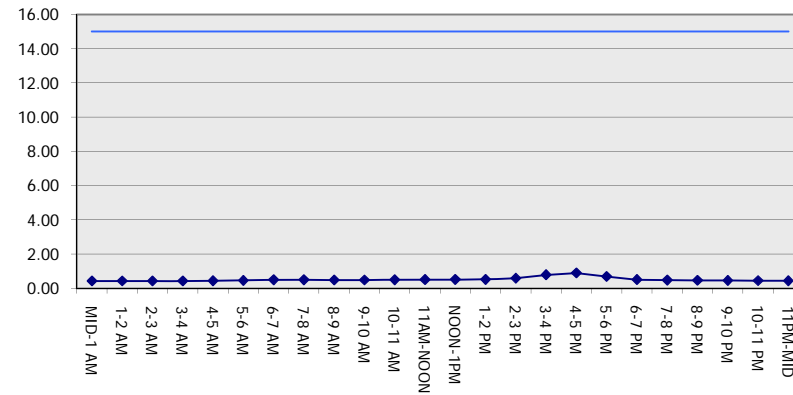
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION

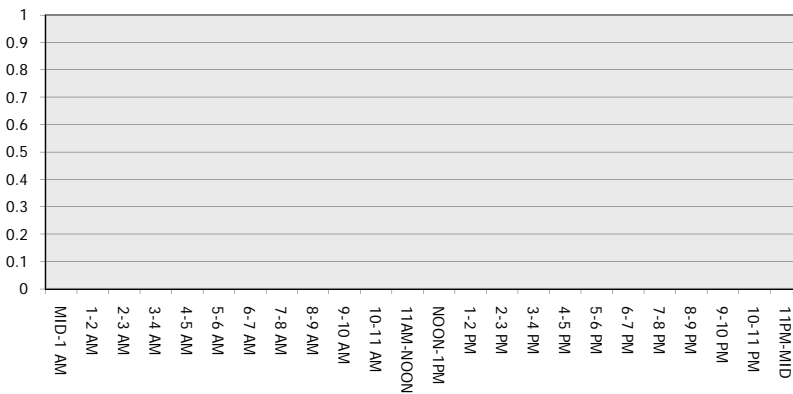
Main Route - Traffic Demand (Vehicles Per Hour)



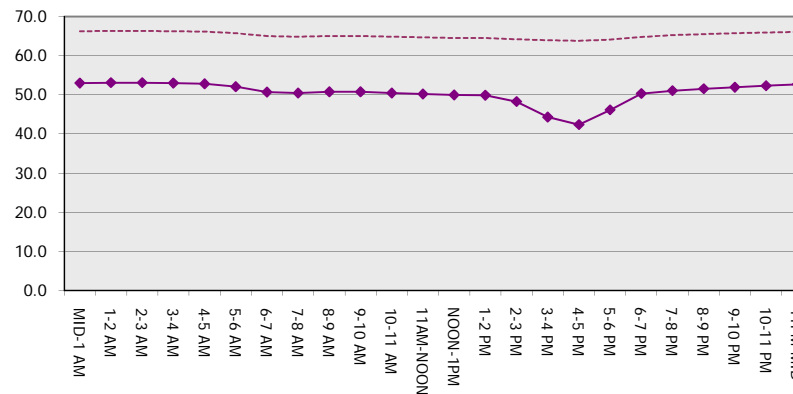
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	136	0.0	1500	136	0	0.44	0	66.1	52.8	45.0
1-2 AM	65	0.0	1500	65	0	0.43	0	66.3	53.0	45.2
2-3 AM	62	0.0	1500	62	0	0.43	0	66.3	53.0	45.3
3-4 AM	93	0.0	1500	93	0	0.43	0	66.2	53.0	45.1
4-5 AM	141	0.0	1500	141	0	0.44	0	66.1	52.8	44.9
5-6 AM	323	0.0	1500	323	0	0.45	0	65.8	52.1	44.2
6-7 AM	769	0.0	1500	769	0	0.50	0	65.0	50.6	42.5
7-8 AM	1064	0.0	1500	1064	0	0.53	0	64.4	49.7	41.5
8-9 AM	835	0.0	1500	835	0	0.50	0	64.8	50.4	42.3
9-10 AM	899	0.0	1500	899	0	0.51	0	64.7	50.2	42.0
10-11 AM	1020	0.0	1500	1020	0	0.52	0	64.5	49.8	41.6
11AM-NOON	1067	0.0	1500	1067	0	0.53	0	64.4	49.7	41.4
NOON-1PM	1125	0.0	1500	1125	0	0.54	0	64.3	49.3	41.0
1-2 PM	1197	0.0	1500	1197	0	0.63	0	64.1	47.3	38.6
2-3 PM	1323	0.0	1499	1323	0	0.79	0	63.9	44.2	35.0
3-4 PM	1565	0.0	1499	1565	0	1.88	25	63.5	31.0	30.8
4-5 PM	1535	0.0	1499	1535	0	4.11	83	63.5	19.3	30.8
5-6 PM	1509	0.0	1500	1509	0	5.21	113	63.6	16.3	30.8
6-7 PM	1251	0.0	1499	1251	0	1.47	31	64.0	35.1	35.8
7-8 PM	1025	0.0	1500	1025	0	0.52	0	64.5	49.8	41.6
8-9 PM	803	0.0	1500	803	0	0.50	0	64.9	50.5	42.4
9-10 PM	607	0.0	1500	607	0	0.48	0	65.3	51.2	43.1
10-11 PM	408	0.0	1500	408	0	0.46	0	65.6	51.9	43.8
11PM-MID	243	0.0	1500	243	0	0.45	0	66.0	52.4	44.5

----- 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	0.0058
MAIN ROUTE WITH WORKS	0.0045
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$5,741
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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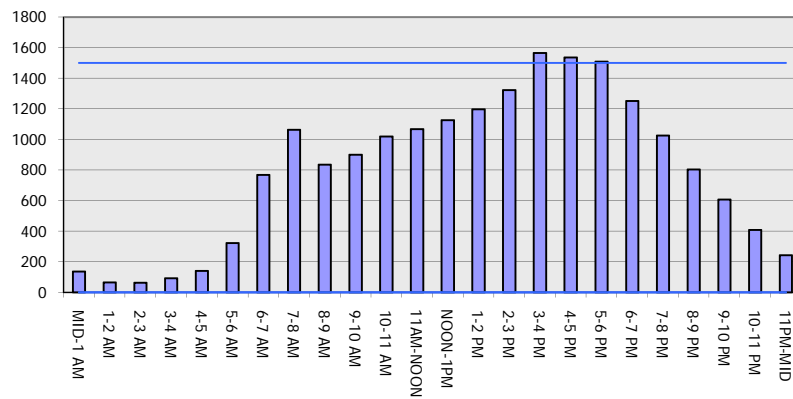
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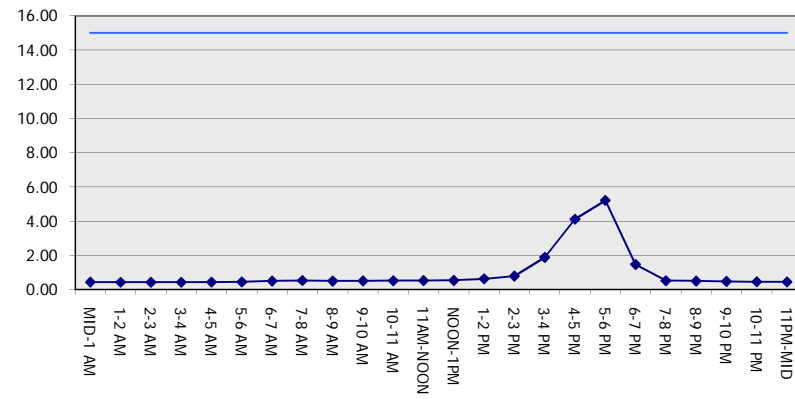
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY NORTHBOUND DIRECTION

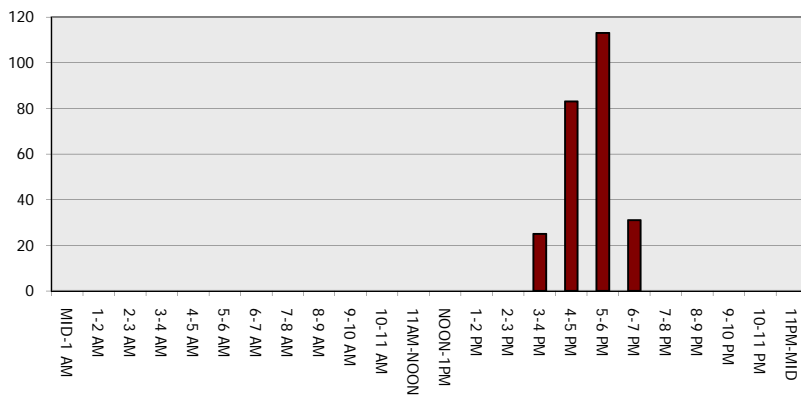
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

