

STH 29: IH 93 TO CTH X (MARATHON COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: BUS 51, IH 39	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR WESTBOUND 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	91	0.0	47	0.0	1500	91	0	47	0.43	0	66.2	48.4	45.1	38.4	38.4
1-2 AM	73	0.0	38	0.0	1500	73	0	38	0.43	0	66.3	48.5	45.2	38.4	38.4
2-3 AM	68	0.0	35	0.0	1500	68	0	35	0.43	0	66.3	48.6	45.2	38.4	38.4
3-4 AM	104	0.0	55	0.0	1500	104	0	55	0.43	0	66.2	48.4	45.1	38.4	38.4
4-5 AM	279	0.0	146	0.0	1500	279	0	146	0.45	0	65.9	47.7	44.3	38.2	38.2
5-6 AM	793	0.0	415	0.0	1500	793	0	415	0.50	0	64.9	45.8	42.4	37.6	37.6
6-7 AM	1420	0.0	743	0.0	1499	1420	0	743	0.98	2	63.7	35.5	32.9	36.9	36.9
7-8 AM	1576	0.0	825	0.0	1500	1576	0	825	3.04	57	63.5	18.8	30.8	36.8	36.8
8-9 AM	1094	0.0	572	0.0	1500	1094	0	572	0.78	10	64.3	39.2	40.2	37.3	37.3
9-10 AM	1067	0.0	558	0.0	1500	1067	0	558	0.53	0	64.4	44.9	41.4	37.3	37.3
10-11 AM	1096	0.0	573	0.0	1500	1096	0	573	0.53	0	64.3	44.8	41.4	37.3	37.3
11A-NOON	1147	0.0	600	0.0	1500	1147	0	600	0.57	0	64.3	43.8	40.2	37.3	37.3
NOON-1PM	1187	0.0	621	0.0	1500	1187	0	621	0.62	0	64.1	42.5	38.9	37.2	37.2
1-2 PM	1298	0.0	678	0.0	1500	1298	0	678	0.76	0	64.0	39.3	35.6	37.1	37.1
2-3 PM	1401	0.0	733	0.0	1499	1401	0	733	0.90	0	63.8	36.8	33.0	36.9	36.9
3-4 PM	1513	0.0	792	0.0	1499	1513	0	792	1.16	4	63.6	32.6	30.9	36.8	36.8
4-5 PM	1564	0.0	817	0.0	1500	1564	0	817	2.96	54	63.5	19.0	30.8	36.8	36.8
5-6 PM	1323	0.0	692	0.0	1499	1323	0	692	1.52	28	63.9	28.7	34.1	37.1	37.1
6-7 PM	962	0.0	503	0.0	1500	962	0	503	0.52	0	64.6	45.3	41.8	37.4	37.4
7-8 PM	691	0.0	361	0.0	1500	691	0	361	0.49	0	65.1	46.2	42.8	37.8	37.8
8-9 PM	517	0.0	270	0.0	1500	517	0	270	0.47	0	65.4	46.8	43.5	37.9	37.9
9-10 PM	393	0.0	206	0.0	1500	393	0	206	0.46	0	65.6	47.3	43.9	38.1	38.1
10-11 PM	320	0.0	167	0.0	1500	320	0	167	0.45	0	65.8	47.6	44.2	38.1	38.1
11PM-MID	157	0.0	81	0.0	1500	157	0	81	0.44	0	66.1	48.2	44.8	38.3	38.3

----- 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	0.0042
MAIN ROUTE WITH WORKS	0.0028
DIVERSION	0.0927

PIA: Personal Injury Accidents

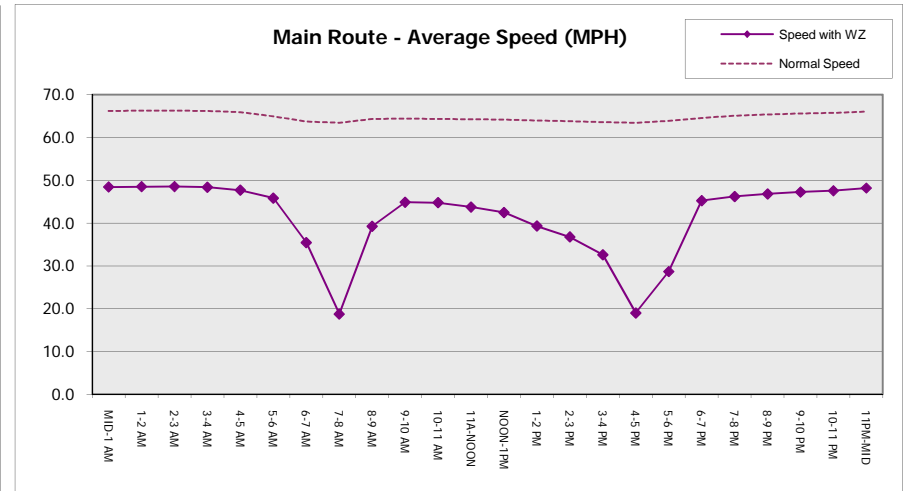
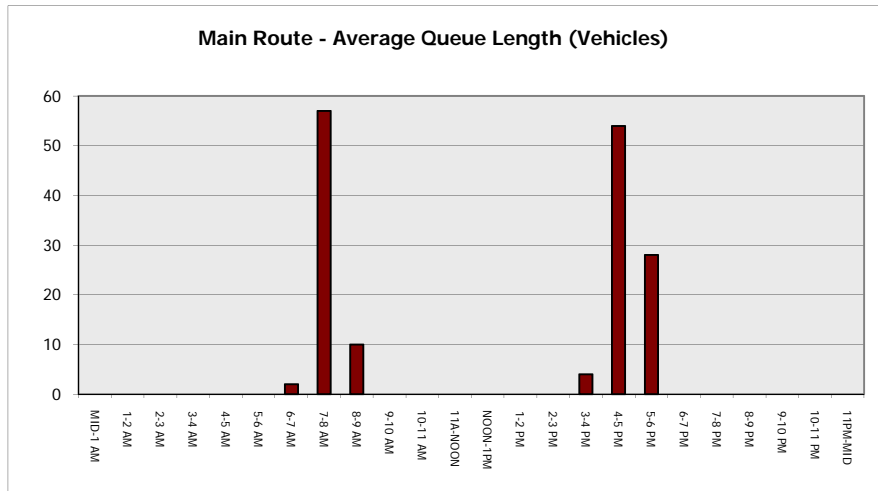
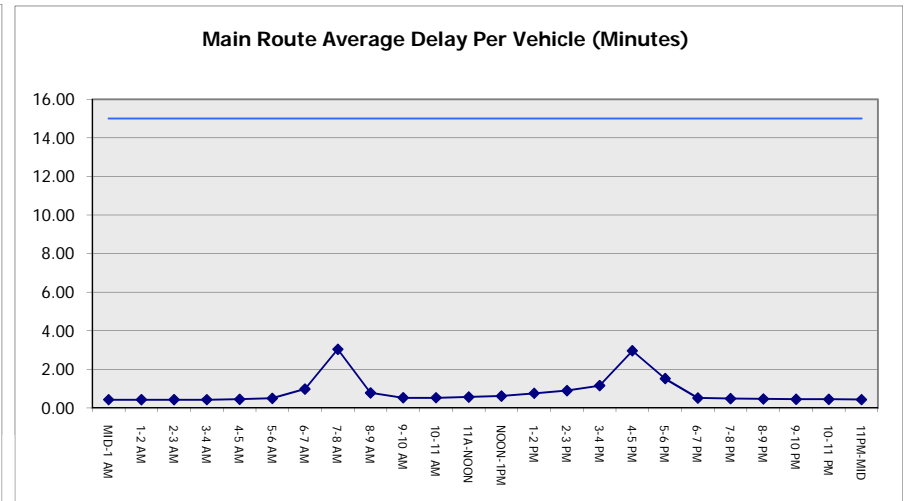
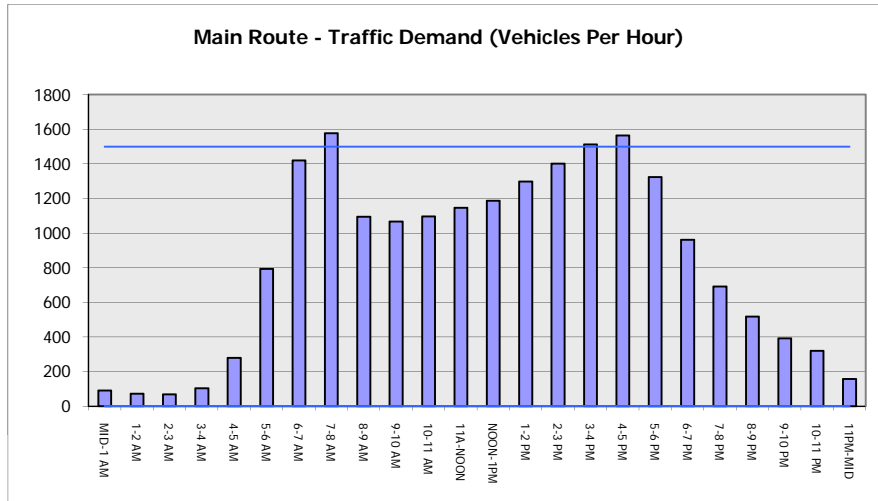
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$5,312
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

**STH 29: IH 93 TO CTH X (MARATHON COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: BUS 51, IH 39**

AUGUST
Analyzed for 2009
Construction Season

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



STH 29: IH 93 TO CTH X (MARATHON COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: BUS 51, IH 39	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR EASTBOUND 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	99	0.0	51	0.0	1500	99	0	51	0.43	0	66.2	48.4	45.1	38.3	38.3
1-2 AM	71	0.0	37	0.0	1500	71	0	37	0.43	0	66.3	48.5	45.2	38.4	38.4
2-3 AM	60	0.0	31	0.0	1500	60	0	31	0.43	0	66.3	48.6	45.3	38.4	38.4
3-4 AM	96	0.0	50	0.0	1500	96	0	50	0.43	0	66.2	48.4	45.1	38.3	38.3
4-5 AM	239	0.0	125	0.0	1500	239	0	125	0.45	0	66.0	47.9	44.5	38.0	38.0
5-6 AM	496	0.0	259	0.0	1500	496	0	259	0.47	0	65.5	46.9	43.5	37.4	37.4
6-7 AM	926	0.0	485	0.0	1500	926	0	485	0.51	0	64.6	45.4	41.9	36.0	36.0
7-8 AM	1025	0.0	536	0.0	1500	1025	0	536	0.52	0	64.5	45.0	41.6	35.0	35.0
8-9 AM	852	0.0	446	0.0	1500	852	0	446	0.50	0	64.8	45.6	42.2	36.6	36.6
9-10 AM	883	0.0	462	0.0	1500	883	0	462	0.51	0	64.8	45.5	42.1	36.3	36.3
10-11 AM	975	0.0	510	0.0	1500	975	0	510	0.52	0	64.6	45.2	41.8	35.5	35.5
11A-NOON	1087	0.0	568	0.0	1500	1087	0	568	0.53	0	64.3	44.8	41.4	34.5	34.5
NOON-1PM	1190	0.0	622	0.0	1500	1190	0	622	0.62	0	64.1	42.4	38.8	33.5	33.5
1-2 PM	1272	0.0	665	0.0	1499	1272	0	665	0.73	0	64.0	40.1	36.3	32.8	32.8
2-3 PM	1492	0.0	780	0.0	1499	1492	0	780	1.17	5	63.6	32.5	31.4	30.8	30.7
3-4 PM	1711	0.0	895	0.0	1500	1711	0	895+	4.89	117	63.2	14.4	30.8	26.5	26.9
4-5 PM	1864	0.0	975	0.0	1500	1735	129	1104+	15.69	403	62.9	8.0	30.8	23.2	22.9
5-6 PM	1479	0.0	773	0.0	1500	1296	184	957+	15.16	385	63.7	8.1	30.8	30.9	25.6
6-7 PM	1003	0.0	524	0.0	1499	1003	0	524	1.89	84	64.5	27.1	38.6	35.3	35.5
7-8 PM	781	0.0	409	0.0	1500	781	0	409	0.50	0	65.0	45.9	42.5	36.8	36.8
8-9 PM	666	0.0	348	0.0	1500	666	0	348	0.49	0	65.1	46.3	42.9	37.1	37.1
9-10 PM	492	0.0	256	0.0	1500	492	0	256	0.47	0	65.5	46.9	43.5	37.4	37.4
10-11 PM	385	0.0	201	0.0	1500	385	0	201	0.46	0	65.6	47.3	44.0	37.6	37.6
11PM-MID	209	0.0	108	0.0	1500	209	0	108	0.44	0	66.0	48.0	44.6	38.1	38.1

+ 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	0.0040
MAIN ROUTE WITH WORKS	0.0027
DIVERSION	0.0918

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$16,634
CONGESTED HOURS PER DAY*	2

*Delays Exceeding 15 Minutes

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CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: BUS 51, IH 39**

AUGUST
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR EASTBOUND DIRECTION

