

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

FRIDAY 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	185	0.0	97	0.0	1500	185	0	97	0.44	0	66.0	48.1	44.7	38.3	38.3
1-2 AM	104	0.0	55	0.0	1500	104	0	55	0.43	0	66.2	48.4	45.1	38.4	38.4
2-3 AM	76	0.0	39	0.0	1500	76	0	39	0.43	0	66.3	48.5	45.2	38.4	38.4
3-4 AM	92	0.0	48	0.0	1500	92	0	48	0.43	0	66.2	48.4	45.1	38.4	38.4
4-5 AM	198	0.0	103	0.0	1500	198	0	103	0.44	0	66.0	48.0	44.7	38.3	38.3
5-6 AM	588	0.0	308	0.0	1500	588	0	308	0.48	0	65.3	46.6	43.2	37.9	37.9
6-7 AM	1185	0.0	620	0.0	1499	1185	0	620	0.64	0	64.1	42.0	38.4	37.2	37.2
7-8 AM	1552	0.0	811	0.0	1499	1552	0	811	1.94	26	63.5	24.6	30.8	36.8	36.8
8-9 AM	1165	0.0	609	0.0	1500	1165	0	609	0.71	4	64.2	40.6	39.4	37.2	37.2
9-10 AM	1143	0.0	597	0.0	1500	1143	0	597	0.56	0	64.3	43.9	40.4	37.3	37.3
10-11 AM	1281	0.0	670	0.0	1500	1281	0	670	0.74	0	64.0	39.7	36.0	37.1	37.1
11A-NOON	1395	0.0	729	0.0	1499	1395	0	729	0.89	0	63.8	36.9	33.1	36.9	36.9
NOON-1PM	1486	0.0	777	0.0	1499	1486	0	777	1.02	0	63.6	34.7	31.1	36.9	36.9
1-2 PM	1534	0.0	802	0.0	1500	1534	0	802	1.50	13	63.5	28.6	30.8	36.8	36.8
2-3 PM	1643	0.0	859	0.0	1500	1643	0	859	4.50	100	63.3	15.0	30.8	36.7	36.9
3-4 PM	1736	0.0	908	0.0	1499	1566	171	1079	9.64	233	63.2	9.9	30.8	36.5	35.6
4-5 PM	1770	0.0	925	0.0	1500	1501	269	1195	10.13	246	63.1	9.6	30.8	36.3	34.7
5-6 PM	1665	0.0	871	0.0	1500	1482	184	1054	9.74	235	63.3	9.8	30.8	36.7	35.8
6-7 PM	1263	0.0	660	0.0	1499	1263	0	660	4.83	132	64.0	15.0	33.3	37.1	37.4
7-8 PM	909	0.0	476	0.0	1500	909	0	476	0.51	0	64.7	45.5	42.0	37.5	37.5
8-9 PM	653	0.0	341	0.0	1500	653	0	341	0.49	0	65.1	46.3	42.9	37.8	37.8
9-10 PM	516	0.0	270	0.0	1500	516	0	270	0.47	0	65.5	46.8	43.5	37.9	37.9
10-11 PM	392	0.0	205	0.0	1500	392	0	205	0.46	0	65.6	47.3	43.9	38.1	38.1
11PM-MID	262	0.0	138	0.0	1500	262	0	138	0.45	0	65.9	47.8	44.5	38.2	38.2

----- 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	0.0047
MAIN ROUTE WITH WORKS	0.0031
DIVERSION	0.1104

PIA: Personal Injury Accidents

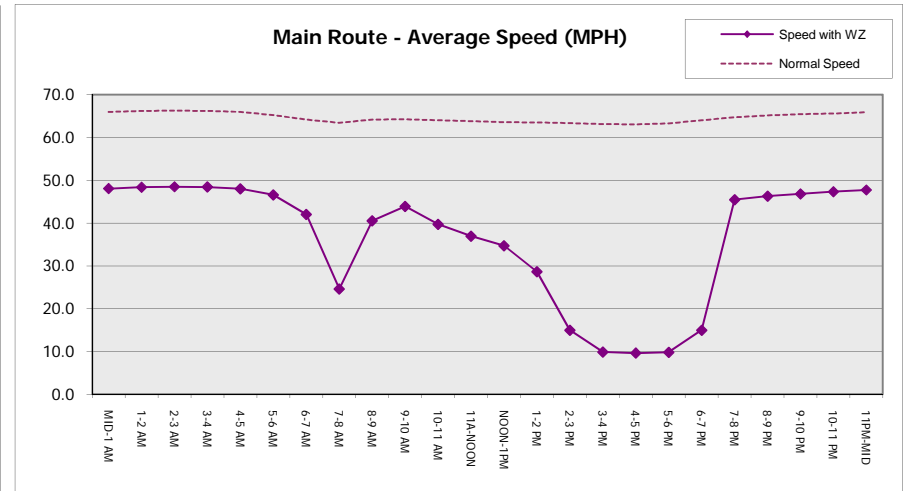
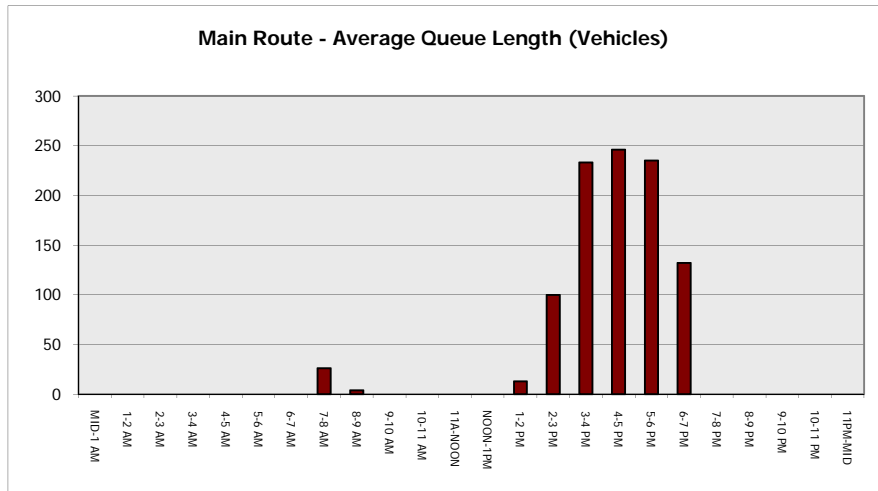
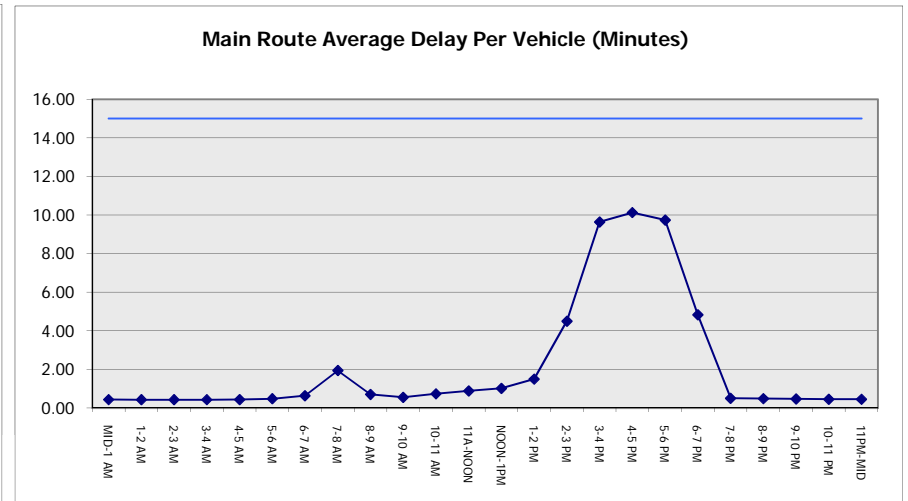
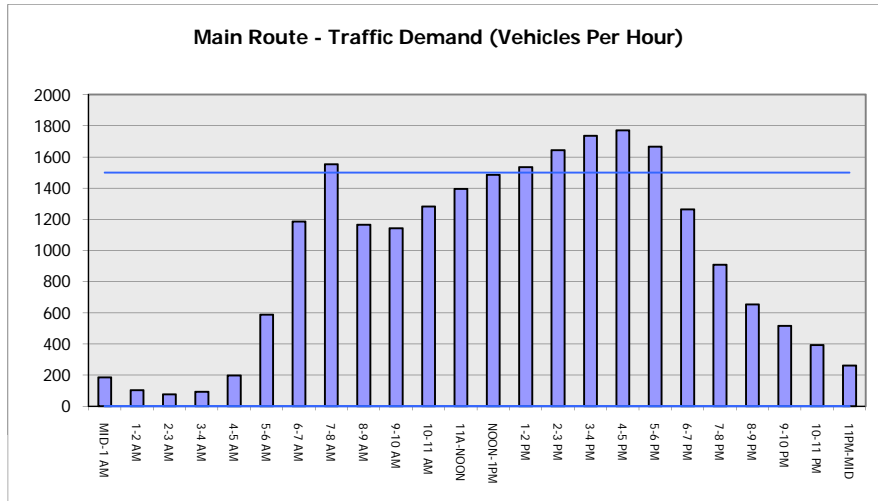
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$19,311
CONGESTED HOURS PER DAY*	0

*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
FRIDAY 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

FRIDAY 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	143	0.0	75	0.0	1500	143	0	75	0.44	0	66.1	48.3	44.9	38.2	38.2
1-2 AM	87	0.0	45	0.0	1500	87	0	45	0.43	0	66.2	48.4	45.1	38.3	38.3
2-3 AM	73	0.0	38	0.0	1500	73	0	38	0.43	0	66.3	48.5	45.2	38.3	38.3
3-4 AM	89	0.0	46	0.0	1500	89	0	46	0.43	0	66.2	48.4	45.1	38.3	38.3
4-5 AM	195	0.0	102	0.0	1500	195	0	102	0.44	0	66.0	48.1	44.7	38.1	38.1
5-6 AM	373	0.0	195	0.0	1500	373	0	195	0.46	0	65.7	47.4	44.0	37.7	37.7
6-7 AM	788	0.0	413	0.0	1500	788	0	413	0.50	0	64.9	45.8	42.4	36.8	36.8
7-8 AM	974	0.0	509	0.0	1500	974	0	509	0.52	0	64.6	45.2	41.8	35.5	35.5
8-9 AM	864	0.0	452	0.0	1500	864	0	452	0.51	0	64.8	45.6	42.2	36.5	36.5
9-10 AM	915	0.0	479	0.0	1500	915	0	479	0.51	0	64.7	45.4	42.0	36.1	36.1
10-11 AM	1112	0.0	582	0.0	1500	1112	0	582	0.53	0	64.3	44.7	41.3	34.3	34.3
11A-NOON	1221	0.0	638	0.0	1500	1221	0	638	0.66	0	64.1	41.5	37.8	33.3	33.3
NOON-1PM	1389	0.0	727	0.0	1499	1389	0	727	0.88	0	63.8	37.1	33.3	31.7	31.7
1-2 PM	1483	0.0	775	0.0	1499	1483	0	775	1.06	2	63.7	34.0	31.3	30.9	30.9
2-3 PM	1654	0.0	865	0.0	1500	1654	0	865+	3.46	75	63.3	17.6	30.8	27.8	27.9
3-4 PM	1794	0.0	938	0.0	1500	1783	11	949+	11.83	301	63.0	9.1	30.8	24.7	25.6
4-5 PM	1855	0.0	970	0.0	1499	1511	344	1314+	18.94	484	62.9	7.5	30.8	23.3	21.4
5-6 PM	1585	0.0	829	0.0	1500	1400	185	1014+	16.85	428	63.4	7.8	30.8	29.2	23.4
6-7 PM	1189	0.0	622	0.0	1499	1146	43	665	6.48	181	64.1	12.8	33.8	33.5	33.2
7-8 PM	965	0.0	504	0.0	1500	965	0	505	0.52	0	64.6	45.2	41.8	35.6	35.6
8-9 PM	842	0.0	441	0.0	1500	842	0	441	0.50	0	64.8	45.6	42.2	36.6	36.6
9-10 PM	692	0.0	361	0.0	1500	692	0	361	0.49	0	65.1	46.2	42.8	37.0	37.0
10-11 PM	493	0.0	257	0.0	1500	493	0	257	0.47	0	65.5	46.9	43.5	37.4	37.4
11PM-MID	371	0.0	194	0.0	1500	371	0	194	0.46	0	65.7	47.4	44.0	37.7	37.7

+ 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	0.0044
MAIN ROUTE WITH WORKS	0.0029
DIVERSION	0.1025

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$26,054
CONGESTED HOURS PER DAY*	2

*Delays Exceeding 15 Minutes

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 DIVERSION ROUTE: BUS 51, IH 39**

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

