

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	583	0.0	OFF	583	0	0.00	0	70.0	70.0	70.0
1-2 AM	800	0.0	OFF	800	0	0.00	0	69.7	69.7	69.7
2-3 AM	2043	0.0	OFF	2043	0	0.00	0	68.2	68.2	68.2
3-4 AM	3816	0.0	OFF	3816	0	0.00	0	64.8	64.8	64.8
4-5 AM	4237	0.0	OFF	4237	0	0.00	0	61.9	61.9	61.9
5-6 AM	4318	0.0	OFF	4318	0	0.00	0	61.4	61.4	61.4
6-7 AM	4715	0.0	OFF	4715	0	0.00	0	58.6	58.6	58.6
7-8 AM	4935	0.0	OFF	4935	0	0.00	0	57.1	57.1	57.1
8-9 AM	4733	0.0	OFF	4733	0	0.00	0	58.5	58.5	58.5
9-10 AM	4575	0.0	OFF	4575	0	0.00	0	59.6	59.6	59.6
10-11 AM	4796	0.0	1499	1593	3203	17.42+	444	58.1	7.2	36.5
11AM-NOON	5309	0.0	1499	1928	3381	16.01+	410	54.6	7.5	31.1
NOON-1PM	5073	0.0	1500	1500	3573	16.78+	423	56.2	7.3	31.4
1-2 PM	4719	0.0	1500	1500	3219	16.89+	423	58.6	7.3	31.4
2-3 PM	5182	0.0	1500	1500	3682	16.75+	423	55.5	7.3	31.4
3-4 PM	4774	0.0	OFF	4774	0	1.23	110	58.2	35.8	35.8
4-5 PM	3827	0.0	OFF	3827	0	0.00	0	64.7	64.7	64.7
5-6 PM	3275	0.0	OFF	3275	0	0.00	0	66.7	66.7	66.7
6-7 PM	2772	0.0	OFF	2772	0	0.00	0	67.3	67.3	67.3
7-8 PM	2327	0.0	OFF	2327	0	0.00	0	67.8	67.8	67.8
8-9 PM	1676	0.0	OFF	1676	0	0.00	0	68.6	68.6	68.6
9-10 PM	1235	0.0	OFF	1235	0	0.00	0	69.2	69.2	69.2
10-11 PM	1032	0.0	OFF	1032	0	0.00	0	69.4	69.4	69.4
11PM-MID	725	0.0	OFF	725	0	0.00	0	69.9	69.9	69.9

"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	0.0
(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	0
(VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

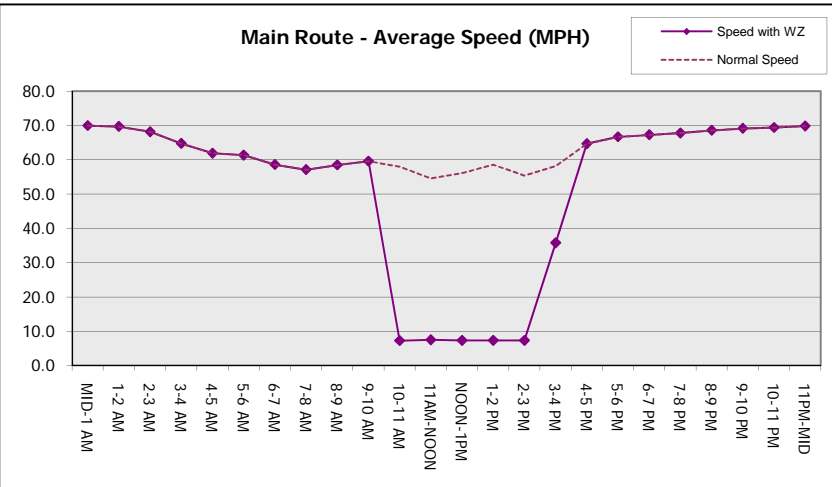
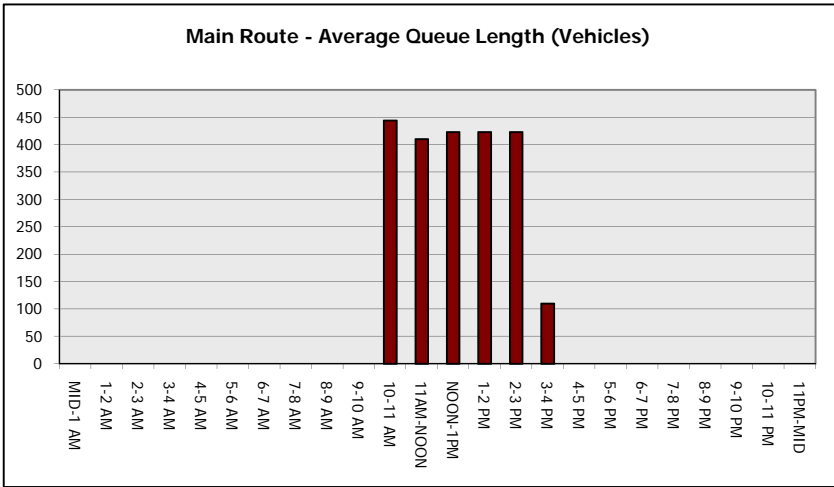
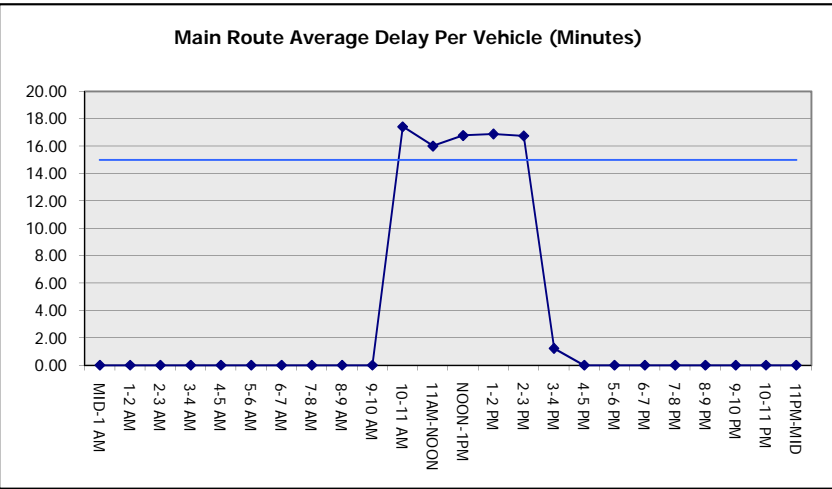
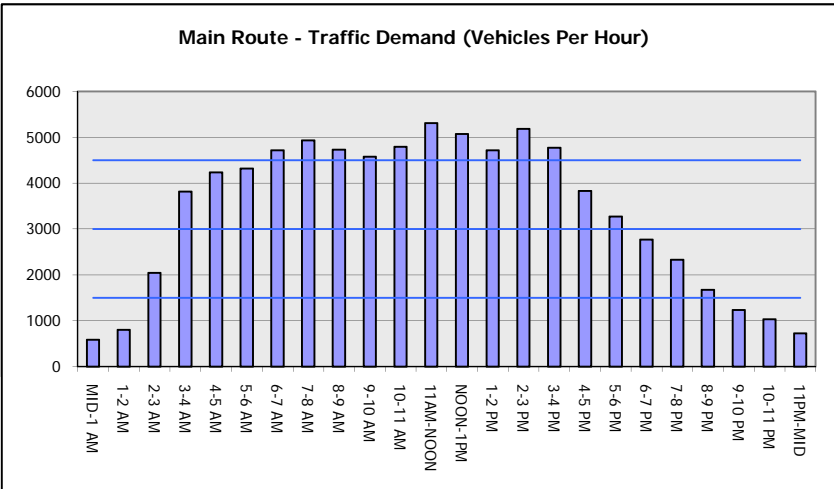
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0247
MAIN ROUTE WITH WORKS	0.0190
'DIVERSION'	0.0120
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$94,387
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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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	1416	0.0	OFF	1416	0	0.00	0	69.0	69.0	69.0
1-2 AM	1850	0.0	OFF	1850	0	0.00	0	68.4	68.4	68.4
2-3 AM	3232	0.0	OFF	3232	0	0.00	0	66.7	66.7	66.7
3-4 AM	4422	0.0	OFF	4422	0	0.00	0	60.7	60.7	60.7
4-5 AM	4992	0.0	OFF	4992	0	0.00	0	56.8	56.8	56.8
5-6 AM	4818	0.0	OFF	4818	0	0.00	0	57.9	57.9	57.9
6-7 AM	5076	0.0	OFF	5076	0	0.00	0	56.2	56.2	56.2
7-8 AM	5280	0.0	OFF	5280	0	0.00	0	54.8	54.8	54.8
8-9 AM	4979	0.0	OFF	4979	0	0.00	0	56.8	56.8	56.8
9-10 AM	4968	0.0	OFF	4968	0	0.00	0	56.9	56.9	56.9
10-11 AM	5244	0.0	1499	1597	3647	17.40+	447	55.0	7.1	36.5
11AM-NOON	5684	0.0	1499	1888	3797	15.97+	410	52.0	7.5	30.8
NOON-1PM	5974	0.0	1500	1500	4474	16.51+	423	50.1	7.3	30.8
1-2 PM	6416	0.0	1500	1500	4916	16.33+	423	47.0	7.3	30.8
2-3 PM	5976	0.0	1500	1500	4476	16.51+	423	50.1	7.3	30.8
3-4 PM	5182	0.0	OFF	5182	0	1.57	143	55.5	31.5	31.5
4-5 PM	4620	0.0	OFF	4620	0	0.00	0	59.3	59.3	59.3
5-6 PM	4335	0.0	OFF	4335	0	0.00	0	61.2	61.2	61.2
6-7 PM	4066	0.0	OFF	4066	0	0.00	0	63.1	63.1	63.1
7-8 PM	3414	0.0	OFF	3414	0	0.00	0	66.5	66.5	66.5
8-9 PM	2701	0.0	OFF	2701	0	0.00	0	67.4	67.4	67.4
9-10 PM	2242	0.0	OFF	2242	0	0.00	0	67.9	67.9	67.9
10-11 PM	1931	0.0	OFF	1931	0	0.00	0	68.3	68.3	68.3
11PM-MID	1710	0.0	OFF	1710	0	0.00	0	68.6	68.6	68.6

"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	0.0304
MAIN ROUTE WITH WORKS	0.0234
'DIVERSION'	0.0149

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$109,048
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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