

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) OFF-PEAK DAY 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	2999	3926	870	11.99+	686	58.1	11.6	37.3
11AM-NOON	5309	0.0	2999	3000	2309	17.59+	968	54.6	9.7	37.3
NOON-1PM	5073	0.0	3000	3000	2073	17.70+	968	56.2	9.7	37.3
1-2 PM	4719	0.0	3000	3028	1691	17.78+	963	58.6	9.7	37.3
2-3 PM	5182	0.0	3000	3000	2182	17.65+	968	55.5	9.7	37.3
3-4 PM	4774	0.0	OFF	4774	0	3.96	371	58.2	19.3	19.3
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 (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

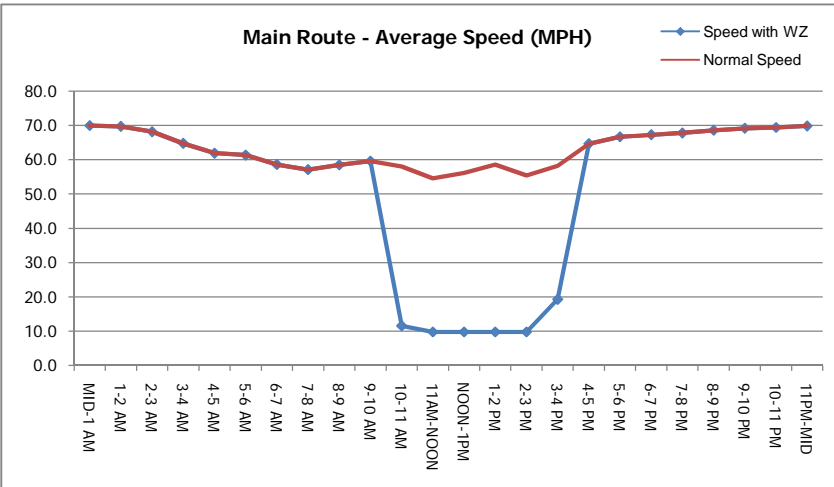
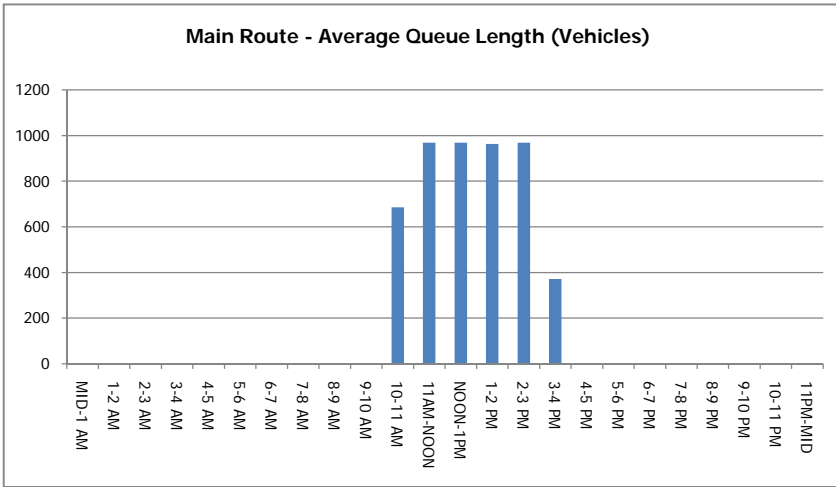
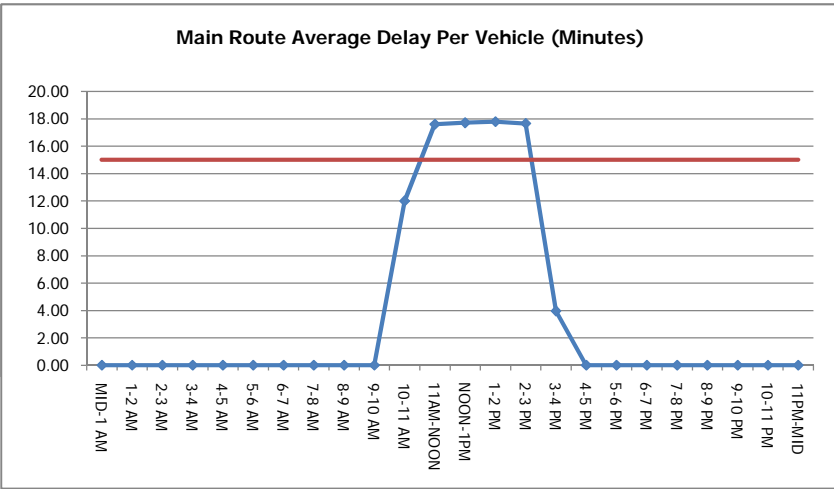
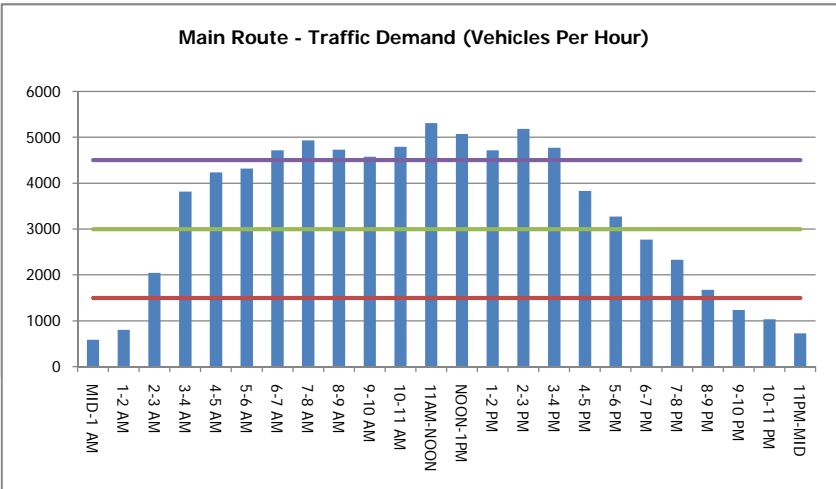
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0247
MAIN ROUTE WITH WORKS	0.0208
'DIVERSION'	0.0064
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$91,974
CONGESTED HOURS PER DAY*	5

*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	2999	4001	1243	13.27+	747	55.0	10.9	37.3
11AM-NOON	5684	0.0	2999	3000	2684	17.40+	968	52.0	9.7	37.3
NOON-1PM	5974	0.0	3000	3000	2974	17.24+	968	50.1	9.7	37.3
1-2 PM	6416	0.0	3000	3000	3416	16.98+	968	47.0	9.7	37.3
2-3 PM	5976	0.0	3000	3000	2976	17.24+	968	50.1	9.7	37.3
3-4 PM	5182	0.0	OFF	5182	0	6.15	591	55.5	13.9	13.9
4-5 PM	4620	0.0	OFF	4620	0	0.16	12	59.3	54.6	54.6
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	0.0253
'DIVERSION'	0.0093

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$109,125
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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