

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) NIGHTTIME 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	3000	583	0	0.36	0	70.0	57.4	49.7	
1-2 AM	800	0.0	3000	800	0	0.35	0	69.7	57.3	49.7	
2-3 AM	2043	0.0	2999	2043	0	0.34	0	68.2	56.5	49.2	
3-4 AM	3816	0.0	2999	3816	0	5.49	339	64.8	17.8	37.3	
4-5 AM	4237	0.0	2999	3111	1126	17.22+	922	61.9	9.9	37.3	
5-6 AM	4318	0.0	OFF	4318	0	2.77	255	61.4	24.7	24.7	
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	OFF	4796	0	0.00	0	58.1	58.1	58.1	
11AM-NOON	5309	0.0	OFF	5309	0	0.00	0	54.6	54.6	54.6	
NOON-1PM	5073	0.0	OFF	5073	0	0.00	0	56.2	56.2	56.2	
1-2 PM	4719	0.0	OFF	4719	0	0.00	0	58.6	58.6	58.6	
2-3 PM	5182	0.0	OFF	5182	0	0.00	0	55.5	55.5	55.5	
3-4 PM	4774	0.0	OFF	4774	0	0.00	0	58.2	58.2	58.2	
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	3000	2327	0	0.33	0	67.8	56.7	49.7	
8-9 PM	1676	0.0	3000	1676	0	0.34	0	68.6	57.0	49.7	
9-10 PM	1235	0.0	3000	1235	0	0.35	0	69.2	57.1	49.7	
10-11 PM	1032	0.0	3000	1032	0	0.35	0	69.4	57.3	49.7	
11PM-MID	725	0.0	3000	725	0	0.35	0	69.9	57.4	49.7	

"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

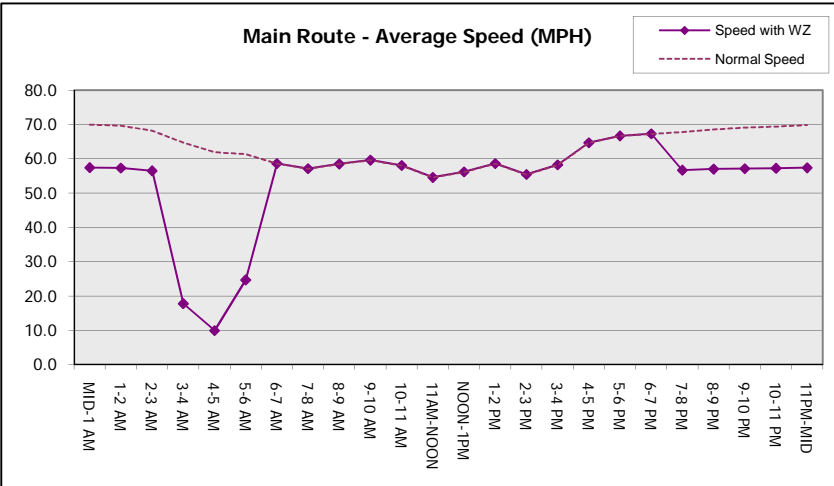
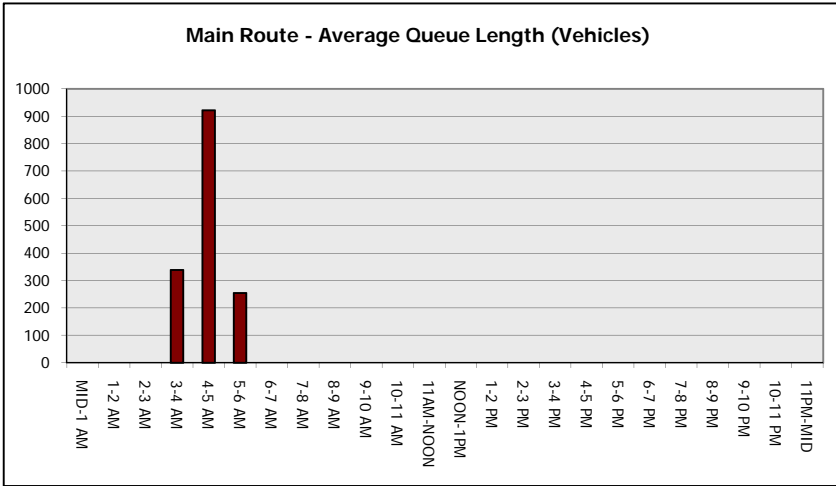
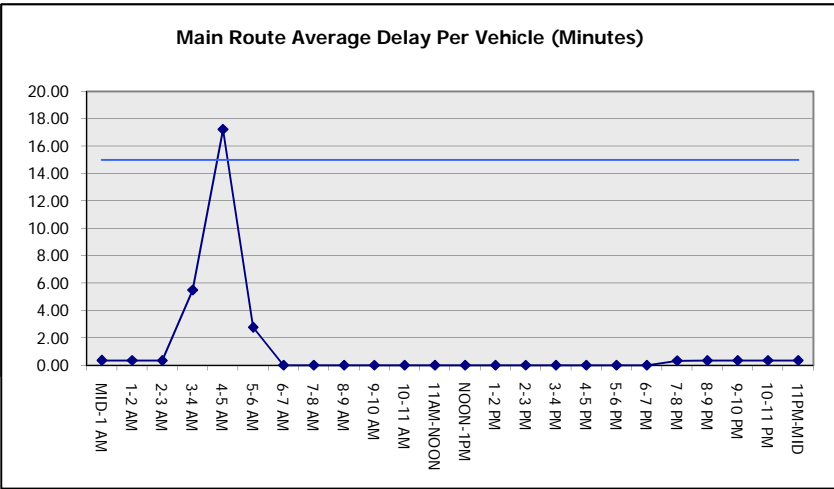
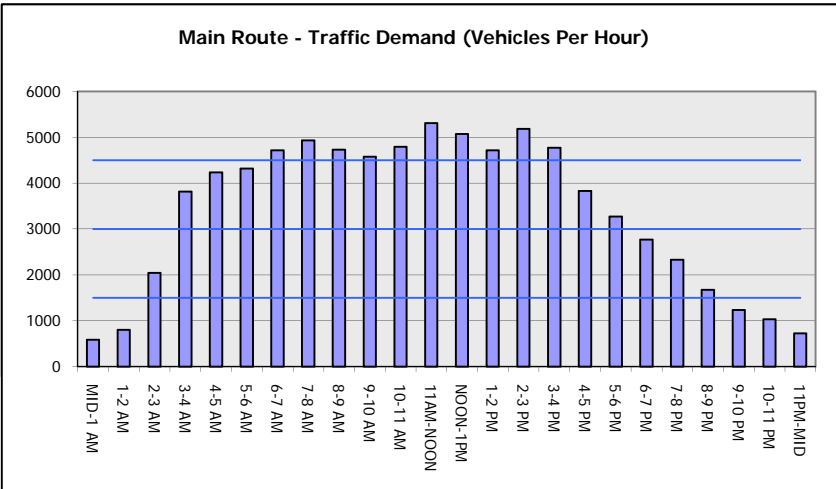
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0247
MAIN ROUTE WITH WORKS	0.0232
'DIVERSION'	0.0008
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$18,141
CONGESTED HOURS PER DAY*	1

*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	3000	1416	0	0.34	0	69.0	57.1	49.7
1-2 AM	1850	0.0	2999	1850	0	0.34	0	68.4	56.9	49.7
2-3 AM	3232	0.0	2999	3232	0	1.49	69	66.7	35.6	37.9
3-4 AM	4422	0.0	3000	3682	740	13.74+	760	60.7	10.9	37.3
4-5 AM	4992	0.0	2999	3000	1992	17.74+	968	56.8	9.7	37.3
5-6 AM	4818	0.0	OFF	4818	0	4.14	389	57.9	18.7	18.7
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	OFF	5244	0	0.00	0	55.0	55.0	55.0
11AM-NOON	5684	0.0	OFF	5684	0	0.00	0	52.0	52.0	52.0
NOON-1PM	5974	0.0	OFF	5974	0	0.00	0	50.1	50.1	50.1
1-2 PM	6416	0.0	OFF	6416	0	0.00	0	47.0	47.0	47.0
2-3 PM	5976	0.0	OFF	5976	0	0.00	0	50.1	50.1	50.1
3-4 PM	5182	0.0	OFF	5182	0	0.00	0	55.5	55.5	55.5
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	2999	3414	0	4.80	249	66.5	18.4	37.3
8-9 PM	2701	0.0	2999	2701	0	5.90	300	67.4	16.1	38.4
9-10 PM	2242	0.0	3000	2242	0	0.46	9	67.9	53.5	49.5
10-11 PM	1931	0.0	3000	1931	0	0.34	0	68.3	56.9	49.7
11PM-MID	1710	0.0	3000	1710	0	0.34	0	68.6	56.9	49.7

"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	0.0279
'DIVERSION'	0.0019

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$34,773
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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