

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	586	0.0	OFF	586	0	0.00	0	70.0	70.0	70.0
1-2 AM	352	0.0	OFF	352	0	0.00	0	70.2	70.2	70.2
2-3 AM	317	0.0	OFF	317	0	0.00	0	70.2	70.2	70.2
3-4 AM	424	0.0	OFF	424	0	0.00	0	70.2	70.2	70.2
4-5 AM	895	0.0	OFF	895	0	0.00	0	69.6	69.6	69.6
5-6 AM	2618	0.0	OFF	2618	0	0.00	0	67.5	67.5	67.5
6-7 AM	5191	0.0	OFF	5191	0	0.00	0	55.4	55.4	55.4
7-8 AM	5996	0.0	OFF	5996	0	0.00	0	49.9	49.9	49.9
8-9 AM	4084	0.0	OFF	4084	0	0.00	0	63.0	63.0	63.0
9-10 AM	3445	0.0	OFF	3445	0	0.00	0	66.4	66.4	66.4
10-11 AM	3412	0.0	1499	1550	1862	16.43+	412	66.5	13.4	36.6
11AM-NOON	3602	0.0	1499	1667	1935	14.45+	378	66.3	14.8	35.8
NOON-1PM	3765	0.0	1499	1543	2222	15.77+	396	65.1	13.8	35.7
1-2 PM	3780	0.0	1500	1500	2280	15.86+	400	65.0	13.7	36.2
2-3 PM	4156	0.0	1500	1500	2656	15.68+	400	62.5	13.7	36.2
3-4 PM	4474	0.0	OFF	4474	0	0.36	22	60.3	55.9	55.9
4-5 PM	4202	0.0	OFF	4202	0	0.00	0	62.2	62.2	62.2
5-6 PM	3923	0.0	OFF	3923	0	0.00	0	64.0	64.0	64.0
6-7 PM	3225	0.0	OFF	3225	0	0.00	0	66.8	66.8	66.8
7-8 PM	2368	0.0	OFF	2368	0	0.00	0	67.8	67.8	67.8
8-9 PM	1945	0.0	OFF	1945	0	0.00	0	68.3	68.3	68.3
9-10 PM	1801	0.0	OFF	1801	0	0.00	0	68.5	68.5	68.5
10-11 PM	1474	0.0	OFF	1474	0	0.00	0	68.9	68.9	68.9
11PM-MID	1217	0.0	OFF	1217	0	0.00	0	69.2	69.2	69.2

"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

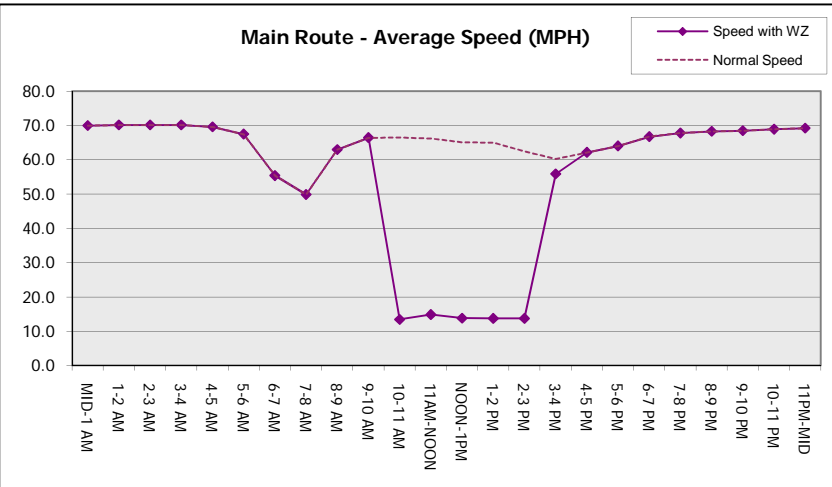
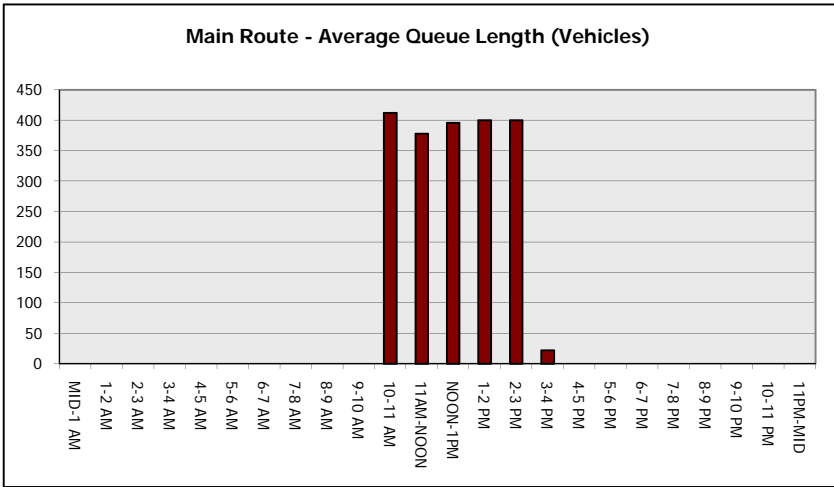
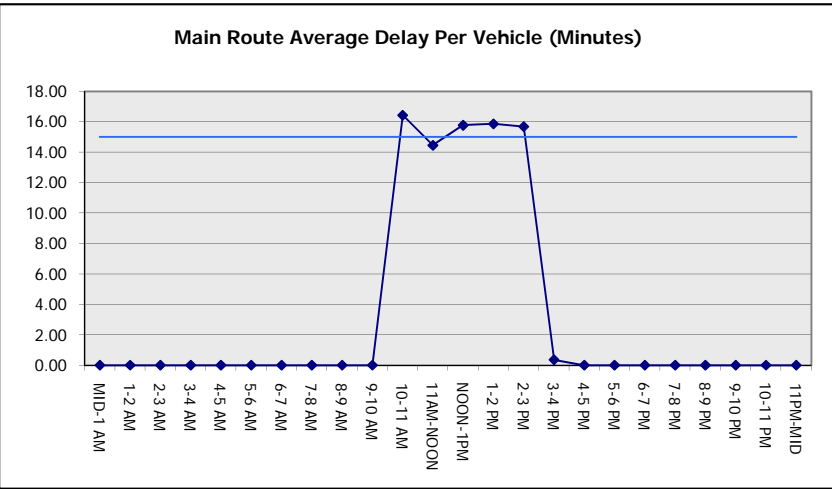
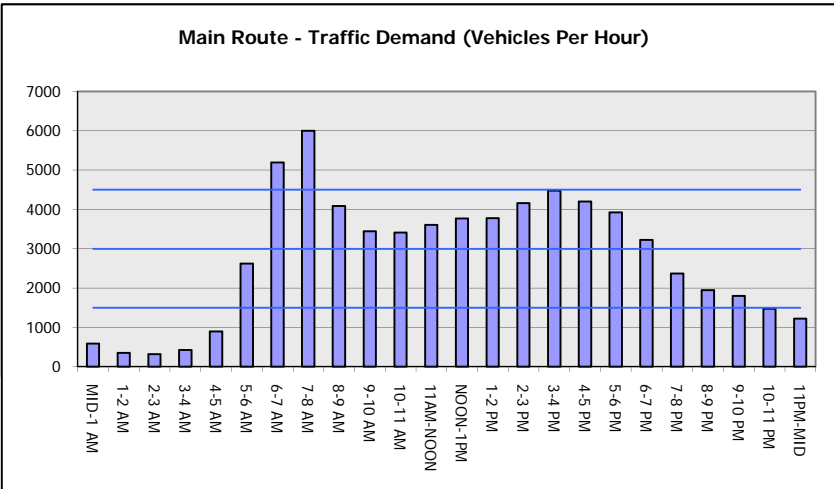
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0492
MAIN ROUTE WITH WORKS	0.0407
'DIVERSION'	0.0186
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$47,735
CONGESTED HOURS PER DAY*	5

*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	597	0.0	OFF	597	0	0.00	0	70.0	70.0	70.0
1-2 AM	401	0.0	OFF	401	0	0.00	0	70.2	70.2	70.2
2-3 AM	378	0.0	OFF	378	0	0.00	0	70.2	70.2	70.2
3-4 AM	339	0.0	OFF	339	0	0.00	0	70.2	70.2	70.2
4-5 AM	689	0.0	OFF	689	0	0.00	0	69.9	69.9	69.9
5-6 AM	1718	0.0	OFF	1718	0	0.00	0	68.6	68.6	68.6
6-7 AM	3010	0.0	OFF	3010	0	0.00	0	67.0	67.0	67.0
7-8 AM	3141	0.0	OFF	3141	0	0.00	0	66.8	66.8	66.8
8-9 AM	2923	0.0	OFF	2923	0	0.00	0	67.1	67.1	67.1
9-10 AM	2999	0.0	OFF	2999	0	0.00	0	67.0	67.0	67.0
10-11 AM	3346	0.0	1499	1550	1796	16.44+	412	66.6	13.4	36.6
11AM-NOON	3882	0.0	1499	1701	2181	14.40+	378	64.3	14.8	35.8
NOON-1PM	4243	0.0	1499	1500	2743	15.61+	399	61.9	13.7	36.9
1-2 PM	4413	0.0	1500	1500	2913	15.53+	400	60.7	13.7	36.9
2-3 PM	5505	0.0	1500	1500	4005	14.89+	399	53.2	13.7	36.9
3-4 PM	6269	0.0	OFF	6269	0	3.65	385	48.0	29.4	29.4
4-5 PM	6829	0.0	OFF	6829	0	8.64	934	44.2	18.5	18.5
5-6 PM	6337	0.0	OFF	6337	0	14.91	1517	47.6	13.3	13.3
6-7 PM	4357	0.0	OFF	4357	0	9.66	864	61.1	19.4	19.4
7-8 PM	3055	0.0	OFF	3055	0	0.01	0	66.9	66.8	66.8
8-9 PM	2542	0.0	OFF	2542	0	0.00	0	67.6	67.6	67.6
9-10 PM	2337	0.0	OFF	2337	0	0.00	0	67.8	67.8	67.8
10-11 PM	2188	0.0	OFF	2188	0	0.00	0	68.0	68.0	68.0
11PM-MID	1460	0.0	OFF	1460	0	0.00	0	68.9	68.9	68.9

"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	0.0534
MAIN ROUTE WITH WORKS	0.0429
'DIVERSION'	0.0231

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$88,610
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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