

USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	345	0.0	OFF	345	0	0.00	0	70.2	70.2	70.2
1-2 AM	223	0.0	OFF	223	0	0.00	0	70.2	70.2	70.2
2-3 AM	224	0.0	OFF	224	0	0.00	0	70.2	70.2	70.2
3-4 AM	348	0.0	OFF	348	0	0.00	0	70.2	70.2	70.2
4-5 AM	695	0.0	OFF	695	0	0.00	0	69.9	69.9	69.9
5-6 AM	2134	0.0	OFF	2134	0	0.00	0	68.1	68.1	68.1
6-7 AM	4533	0.0	OFF	4533	0	0.00	0	59.9	59.9	59.9
7-8 AM	5538	0.0	OFF	5538	0	0.00	0	53.0	53.0	53.0
8-9 AM	4385	0.0	OFF	4385	0	0.00	0	60.9	60.9	60.9
9-10 AM	3346	0.0	OFF	3346	0	0.00	0	66.6	66.6	66.6
10-11 AM	3242	0.0	2999	3242	0	2.65	120	66.7	29.2	37.3
11AM-NOON	3367	0.0	3000	3367	0	8.14	421	66.6	14.6	37.3
NOON-1PM	3354	0.0	2999	3273	80	14.72+	776	66.6	11.1	37.3
1-2 PM	3366	0.0	3000	2999	367	16.68+	880	66.6	10.6	37.3
2-3 PM	3991	0.0	2999	3008	983	16.65+	886	63.6	10.5	37.3
3-4 PM	4463	0.0	OFF	4463	0	2.83	257	60.4	27.0	27.0
4-5 PM	4386	0.0	OFF	4386	0	0.00	0	60.9	60.9	60.9
5-6 PM	4262	0.0	OFF	4262	0	0.00	0	61.7	61.7	61.7
6-7 PM	3096	0.0	OFF	3096	0	0.00	0	66.9	66.9	66.9
7-8 PM	2104	0.0	OFF	2104	0	0.00	0	68.1	68.1	68.1
8-9 PM	1746	0.0	OFF	1746	0	0.00	0	68.6	68.6	68.6
9-10 PM	1452	0.0	OFF	1452	0	0.00	0	68.9	68.9	68.9
10-11 PM	1053	0.0	OFF	1053	0	0.00	0	69.4	69.4	69.4
11PM-MID	875	0.0	OFF	875	0	0.00	0	69.7	69.7	69.7

"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

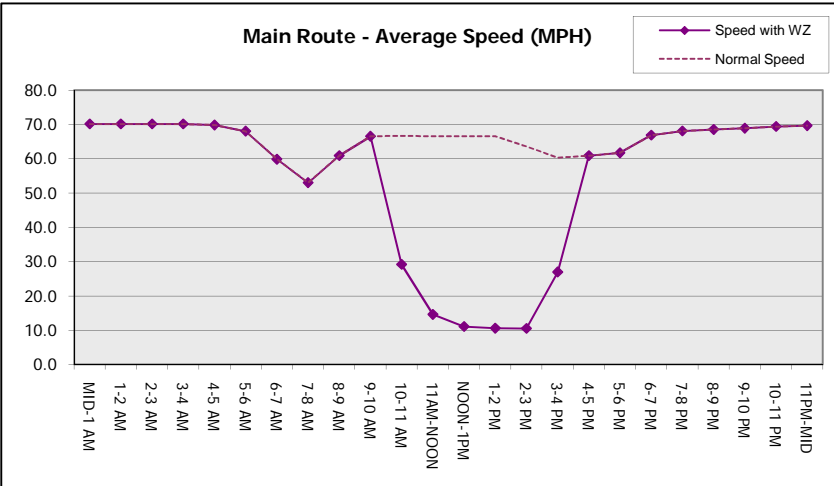
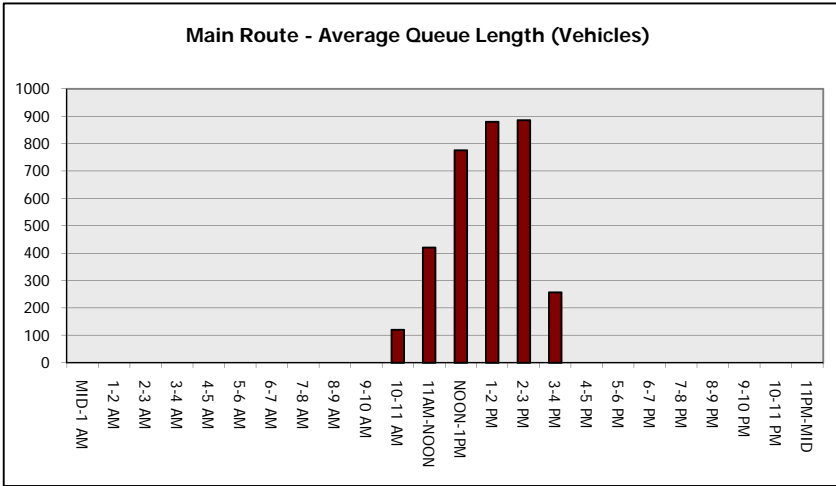
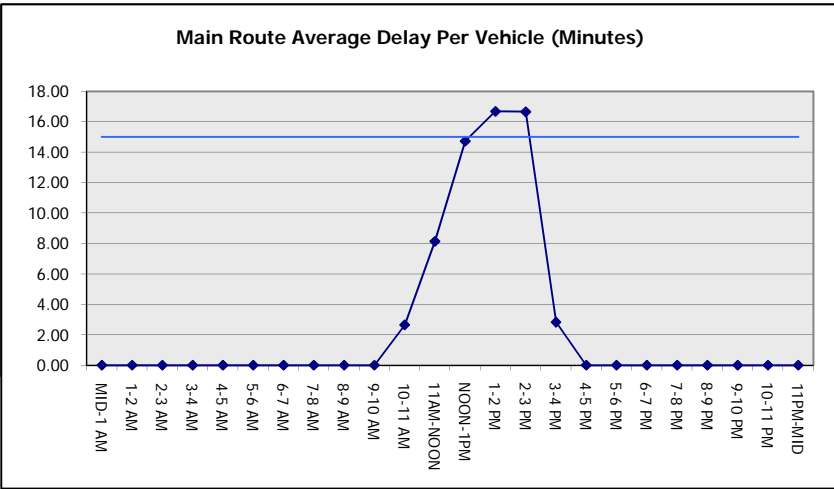
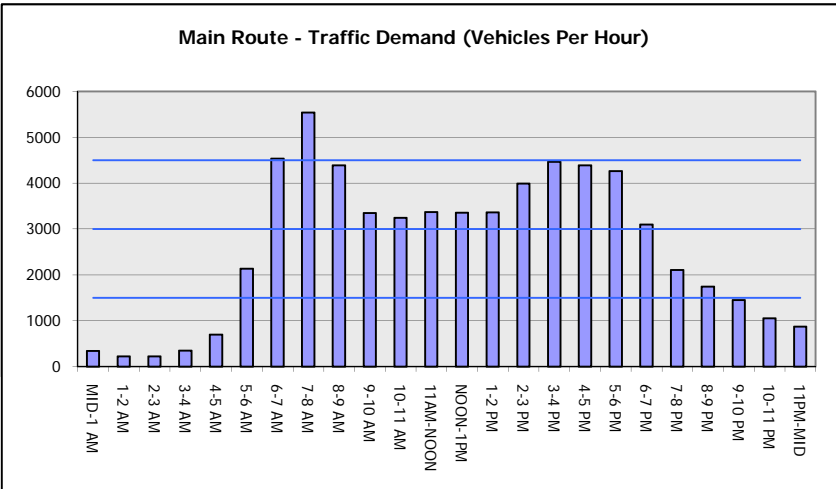
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0229
MAIN ROUTE WITH WORKS	0.0213
'DIVERSION'	0.0012
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$41,749
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	431	0.0	OFF	431	0	0.00	0	70.2	70.2	70.2
1-2 AM	291	0.0	OFF	291	0	0.00	0	70.2	70.2	70.2
2-3 AM	254	0.0	OFF	254	0	0.00	0	70.2	70.2	70.2
3-4 AM	314	0.0	OFF	314	0	0.00	0	70.2	70.2	70.2
4-5 AM	608	0.0	OFF	608	0	0.00	0	70.0	70.0	70.0
5-6 AM	1935	0.0	OFF	1935	0	0.00	0	68.3	68.3	68.3
6-7 AM	3702	0.0	OFF	3702	0	0.00	0	65.6	65.6	65.6
7-8 AM	4603	0.0	OFF	4603	0	0.00	0	59.4	59.4	59.4
8-9 AM	3959	0.0	OFF	3959	0	0.00	0	63.8	63.8	63.8
9-10 AM	2933	0.0	OFF	2933	0	0.00	0	67.1	67.1	67.1
10-11 AM	2811	0.0	2999	2811	0	0.61	0	67.3	51.9	40.4
11AM-NOON	3038	0.0	2999	3038	0	0.91	11	66.9	46.5	37.3
NOON-1PM	3216	0.0	3000	3216	0	3.06	139	66.8	26.9	37.3
1-2 PM	3441	0.0	3000	3441	0	8.57	449	66.4	14.3	37.3
2-3 PM	4213	0.0	2999	3216	998	16.54+	885	62.1	10.5	37.3
3-4 PM	5022	0.0	OFF	5022	0	4.60	429	56.6	19.6	19.6
4-5 PM	5640	0.0	OFF	5640	0	0.00	0	52.4	52.4	52.4
5-6 PM	5573	0.0	OFF	5573	0	0.00	0	52.8	52.8	52.8
6-7 PM	3441	0.0	OFF	3441	0	0.00	0	66.4	66.4	66.4
7-8 PM	2353	0.0	OFF	2353	0	0.00	0	67.8	67.8	67.8
8-9 PM	2053	0.0	OFF	2053	0	0.00	0	68.2	68.2	68.2
9-10 PM	1853	0.0	OFF	1853	0	0.00	0	68.4	68.4	68.4
10-11 PM	1520	0.0	OFF	1520	0	0.00	0	68.9	68.9	68.9
11PM-MID	852	0.0	OFF	852	0	0.00	0	69.7	69.7	69.7

"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	0.0234
MAIN ROUTE WITH WORKS	0.0220
'DIVERSION'	0.0008

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$25,851
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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