

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) 2 LANE 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	544	0.0	1500	544	0	0.54	0	70.0	52.7	43.3	
1-2 AM	758	0.0	1500	758	0	0.56	0	69.8	52.0	42.5	
2-3 AM	1792	0.0	1499	1792	0	2.47	74	68.5	27.6	30.9	
3-4 AM	3175	0.0	1499	1536	1639	16.96+	419	66.8	7.3	32.8	
4-5 AM	3603	0.0	1500	1516	2087	17.09+	421	66.3	7.3	31.4	
5-6 AM	4271	0.0	1499	1500	2771	17.00+	423	61.7	7.3	31.5	
6-7 AM	5051	0.0	1499	1500	3551	16.78+	423	56.3	7.3	31.5	
7-8 AM	5052	0.0	1500	1500	3552	16.78+	423	56.3	7.3	31.5	
8-9 AM	4578	0.0	1500	1500	3078	16.92+	423	59.6	7.3	31.5	
9-10 AM	4158	0.0	1500	1500	2658	17.02+	423	62.5	7.3	31.5	
10-11 AM	4298	0.0	1500	1500	2798	16.99+	423	61.5	7.3	31.5	
11AM-NOON	4908	0.0	1500	1500	3408	16.82+	423	57.3	7.3	31.5	
NOON-1PM	4787	0.0	1500	1500	3287	16.86+	423	58.1	7.3	31.5	
1-2 PM	4512	0.0	1500	1500	3012	16.93+	423	60.1	7.3	31.5	
2-3 PM	4772	0.0	1500	1500	3272	16.86+	423	58.2	7.3	31.5	
3-4 PM	4466	0.0	1500	1500	2966	16.95+	423	60.4	7.3	31.5	
4-5 PM	3613	0.0	1500	1510	2103	17.13+	422	66.2	7.3	31.1	
5-6 PM	3228	0.0	1500	1523	1705	17.10+	420	66.7	7.3	30.8	
6-7 PM	2606	0.0	1500	1513	1094	16.97+	416	67.5	7.3	30.8	
7-8 PM	2004	0.0	1500	1502	503	16.91+	414	68.2	7.3	30.8	
8-9 PM	1507	0.0	1500	1452	55	16.11+	393	68.9	7.6	30.8	
9-10 PM	1109	0.0	1499	1109	0	4.96	174	69.4	17.7	35.4	
10-11 PM	879	0.0	1500	879	0	0.57	0	69.6	51.5	42.1	
11PM-MID	617	0.0	1500	617	0	0.55	0	70.0	52.4	43.0	

+ 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

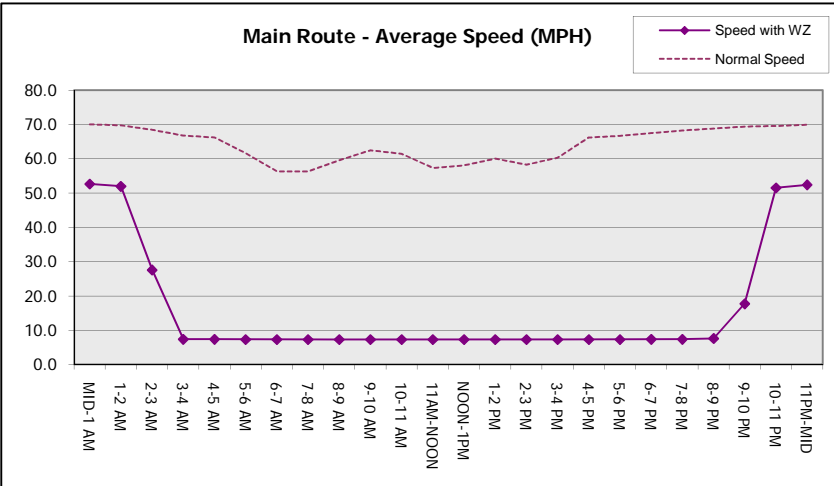
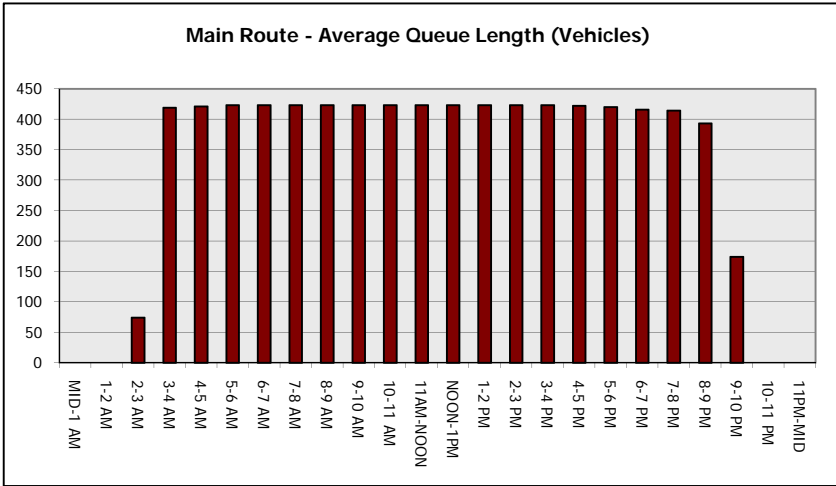
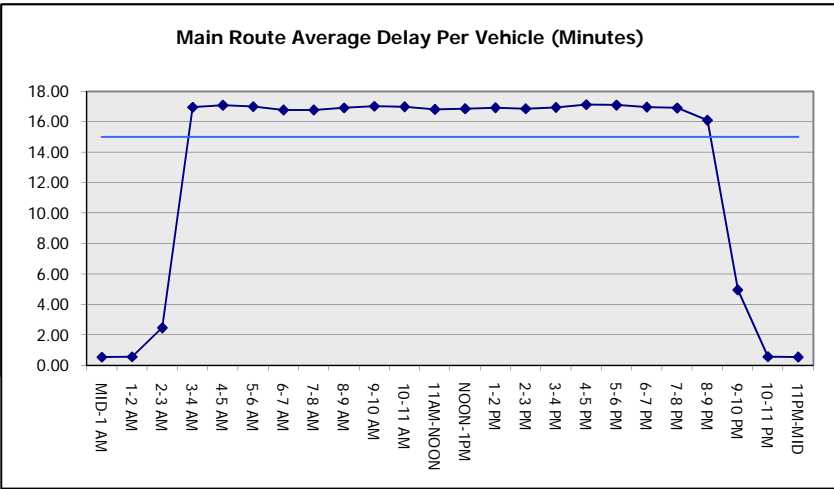
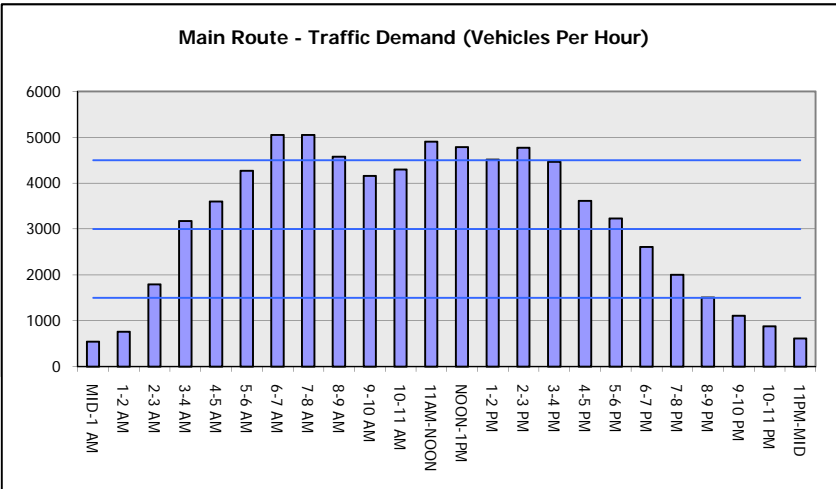
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0231
MAIN ROUTE WITH WORKS	0.0077
'DIVERSION'	0.0305
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$257,052
CONGESTED HOURS PER DAY*	18

*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	1323	0.0	1499	1323	0	11.07	266	69.1	9.4	30.8
1-2 AM	1684	0.0	1500	1684	0	9.67	231	68.6	10.4	30.8
2-3 AM	2767	0.0	1499	1521	1246	17.03+	418	67.3	7.3	30.8
3-4 AM	3781	0.0	1499	1500	2281	17.16+	423	65.0	7.3	30.8
4-5 AM	4476	0.0	1500	1500	2976	16.99+	423	60.3	7.3	30.8
5-6 AM	4827	0.0	1500	1500	3327	16.89+	423	57.9	7.3	30.8
6-7 AM	5189	0.0	1500	1500	3689	16.78+	423	55.4	7.3	30.8
7-8 AM	5230	0.0	1500	1500	3730	16.77+	423	55.1	7.3	30.8
8-9 AM	4718	0.0	1500	1500	3218	16.92+	423	58.6	7.3	30.8
9-10 AM	4486	0.0	1500	1500	2986	16.98+	423	60.2	7.3	30.8
10-11 AM	4704	0.0	1500	1500	3204	16.92+	423	58.7	7.3	30.8
11AM-NOON	5179	0.0	1500	1500	3679	16.78+	423	55.5	7.3	30.8
NOON-1PM	5650	0.0	1500	1500	4150	16.63+	423	52.2	7.3	30.8
1-2 PM	5883	0.0	1500	1500	4383	16.54+	423	50.7	7.3	30.8
2-3 PM	5845	0.0	1500	1500	4345	16.56+	423	50.9	7.3	30.8
3-4 PM	5066	0.0	1500	1500	3566	16.82+	423	56.3	7.3	30.8
4-5 PM	4678	0.0	1500	1500	3178	16.93+	423	58.9	7.3	30.8
5-6 PM	4286	0.0	1500	1500	2786	17.04+	423	61.5	7.3	30.8
6-7 PM	3531	0.0	1500	1502	2029	17.19+	423	66.3	7.3	30.8
7-8 PM	2852	0.0	1500	1516	1336	17.04+	418	67.2	7.3	30.8
8-9 PM	2354	0.0	1500	1501	854	16.92+	414	67.8	7.3	30.8
9-10 PM	2126	0.0	1500	1501	625	16.91+	414	68.1	7.3	30.8
10-11 PM	1686	0.0	1500	1500	186	16.91+	414	68.6	7.3	30.8
11PM-MID	1450	0.0	1500	1450	0	16.22+	396	68.9	7.5	30.8

+ 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	0.0284
MAIN ROUTE WITH WORKS	0.0085
'DIVERSION'	0.0405

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$332,705
CONGESTED HOURS PER DAY*	22

*Delays Exceeding User-Specified Maximum

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