

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	879	0.0	OFF	879	0	0.00	0	69.6	69.6	69.6	
1-2 AM	510	0.0	OFF	510	0	0.00	0	70.1	70.1	70.1	
2-3 AM	459	0.0	OFF	459	0	0.00	0	70.2	70.2	70.2	
3-4 AM	377	0.0	OFF	377	0	0.00	0	70.2	70.2	70.2	
4-5 AM	467	0.0	OFF	467	0	0.00	0	70.2	70.2	70.2	
5-6 AM	935	0.0	OFF	935	0	0.00	0	69.6	69.6	69.6	
6-7 AM	1622	0.0	OFF	1622	0	0.00	0	68.7	68.7	68.7	
7-8 AM	2205	0.0	OFF	2205	0	0.00	0	68.0	68.0	68.0	
8-9 AM	2701	0.0	2999	2701	0	0.53	0	67.4	51.4	42.7	
9-10 AM	3404	0.0	2999	3404	0	2.96	158	66.5	24.8	37.3	
10-11 AM	4095	0.0	3000	3516	579	14.38+	777	62.9	10.6	37.3	
11AM-NOON	4560	0.0	3000	3042	1518	17.63+	952	59.7	9.7	37.3	
NOON-1PM	4846	0.0	2999	3000	1846	17.80+	968	57.8	9.7	37.3	
1-2 PM	4488	0.0	3000	2982	1506	17.66+	952	60.2	9.7	37.3	
2-3 PM	4525	0.0	2999	3011	1515	17.67+	953	59.9	9.7	37.3	
3-4 PM	4527	0.0	3000	2996	1531	17.70+	955	59.9	9.7	37.3	
4-5 PM	4309	0.0	3000	2968	1341	17.37+	932	61.4	9.8	37.3	
5-6 PM	3950	0.0	3000	2987	963	16.99+	904	63.9	9.9	37.3	
6-7 PM	3310	0.0	OFF	3310	0	1.65	152	66.6	33.9	33.9	
7-8 PM	2747	0.0	OFF	2747	0	0.00	0	67.3	67.3	67.3	
8-9 PM	2379	0.0	OFF	2379	0	0.00	0	67.8	67.8	67.8	
9-10 PM	2081	0.0	OFF	2081	0	0.00	0	68.1	68.1	68.1	
10-11 PM	1870	0.0	OFF	1870	0	0.00	0	68.4	68.4	68.4	
11PM-MID	1473	0.0	OFF	1473	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

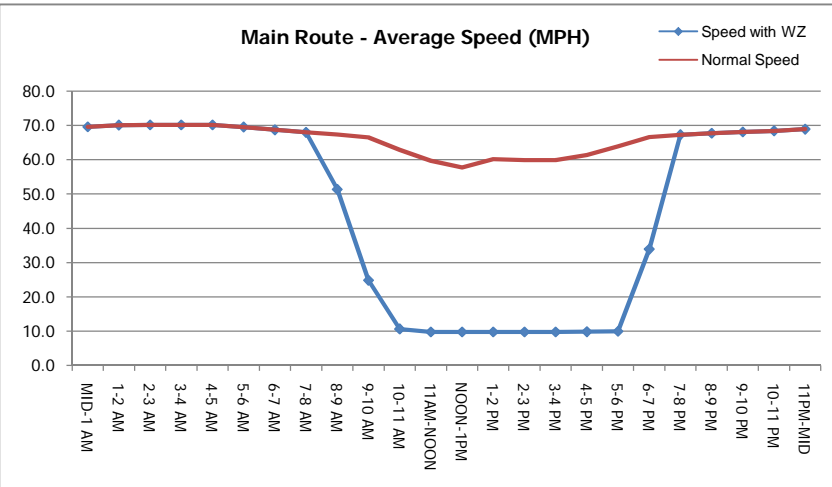
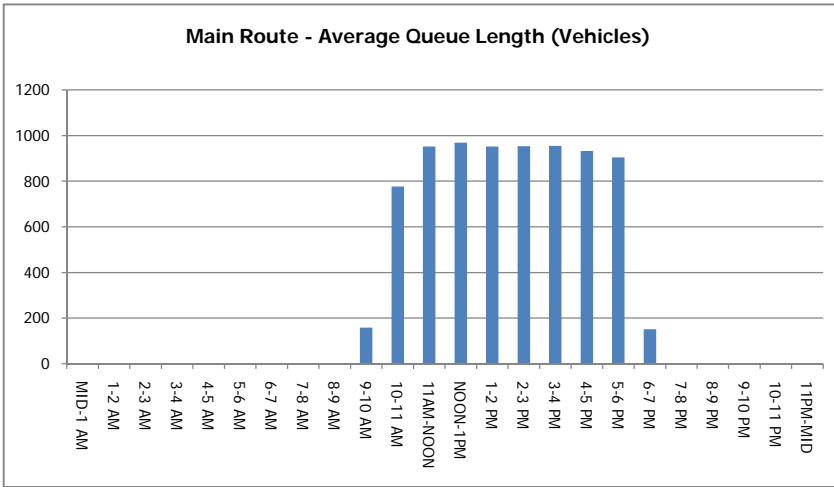
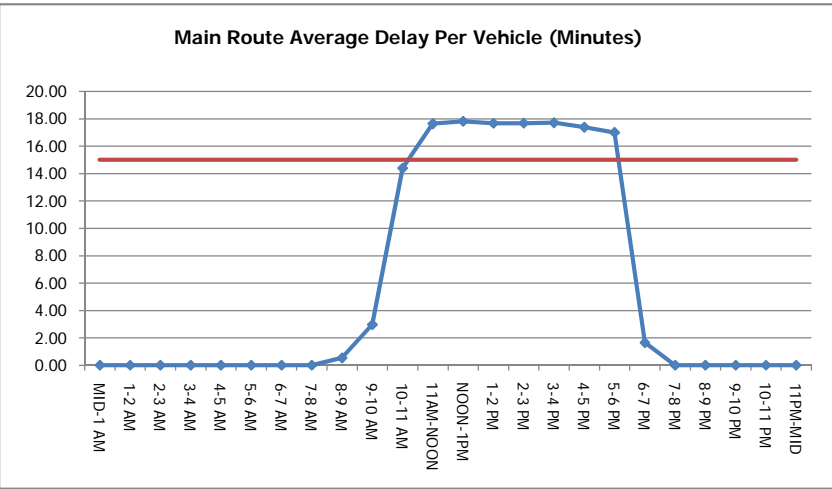
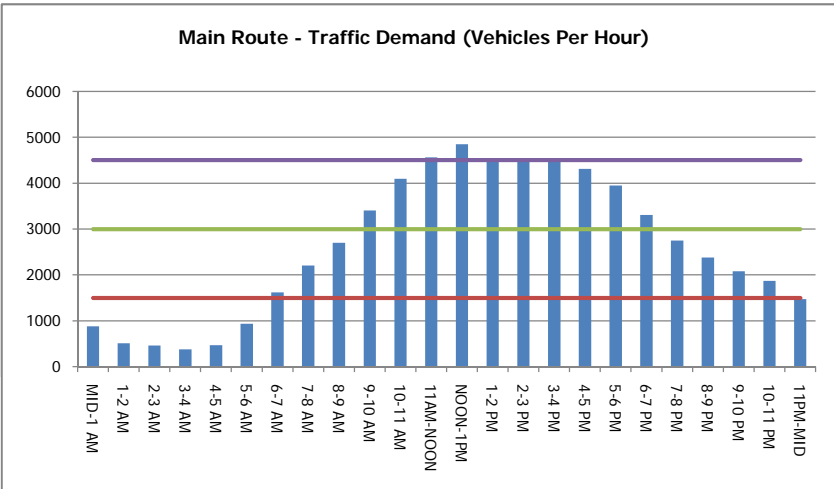
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0190
MAIN ROUTE WITH WORKS	0.0137
'DIVERSION'	0.0076
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$170,240
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	1388	0.0	OFF	1388	0	0.00	0	69.0	69.0	69.0
1-2 AM	924	0.0	OFF	924	0	0.00	0	69.6	69.6	69.6
2-3 AM	843	0.0	OFF	843	0	0.00	0	69.7	69.7	69.7
3-4 AM	639	0.0	OFF	639	0	0.00	0	69.9	69.9	69.9
4-5 AM	853	0.0	OFF	853	0	0.00	0	69.7	69.7	69.7
5-6 AM	1292	0.0	OFF	1292	0	0.00	0	69.1	69.1	69.1
6-7 AM	1945	0.0	OFF	1945	0	0.00	0	68.3	68.3	68.3
7-8 AM	2575	0.0	OFF	2575	0	0.00	0	67.6	67.6	67.6
8-9 AM	3044	0.0	2999	3044	0	1.00	18	66.9	42.2	37.8
9-10 AM	3432	0.0	3000	3432	0	5.10	267	66.4	17.8	37.3
10-11 AM	3797	0.0	3000	3375	422	14.87+	793	64.9	10.5	37.3
11AM-NOON	4257	0.0	3000	3050	1207	17.14+	918	61.8	9.9	37.3
NOON-1PM	4508	0.0	3000	3023	1485	17.61+	949	60.1	9.7	37.3
1-2 PM	4458	0.0	3000	2991	1468	17.59+	947	60.4	9.8	37.3
2-3 PM	4524	0.0	3000	3009	1515	17.67+	953	59.9	9.7	37.3
3-4 PM	4507	0.0	3000	2990	1517	17.68+	953	60.1	9.7	37.3
4-5 PM	4104	0.0	3000	2965	1139	17.09+	912	62.8	9.9	37.3
5-6 PM	3828	0.0	2999	2995	833	16.98+	901	64.7	9.9	37.3
6-7 PM	3234	0.0	OFF	3234	0	1.60	148	66.7	34.5	34.5
7-8 PM	2802	0.0	OFF	2802	0	0.00	0	67.3	67.3	67.3
8-9 PM	2800	0.0	OFF	2800	0	0.00	0	67.3	67.3	67.3
9-10 PM	2904	0.0	OFF	2904	0	0.00	0	67.1	67.1	67.1
10-11 PM	2605	0.0	OFF	2605	0	0.00	0	67.5	67.5	67.5
11PM-MID	2091	0.0	OFF	2091	0	0.00	0	68.1	68.1	68.1

"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	0.0204
MAIN ROUTE WITH WORKS	0.0154
'DIVERSION'	0.0067

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$165,847
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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