

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	491	0.0	3000	491	0	0.36	0	70.1	57.4	49.7
1-2 AM	538	0.0	3000	538	0	0.36	0	70.0	57.4	49.7
2-3 AM	855	0.0	3000	855	0	0.35	0	69.7	57.3	49.7
3-4 AM	1350	0.0	3000	1350	0	0.35	0	69.1	57.1	49.7
4-5 AM	1854	0.0	3000	1854	0	0.34	0	68.4	56.9	49.7
5-6 AM	2497	0.0	2999	2497	0	0.41	0	67.6	54.3	46.6
6-7 AM	3094	0.0	2999	3094	0	1.14	29	66.9	40.1	37.6
7-8 AM	3628	0.0	3000	3628	0	7.22	396	66.1	14.8	37.3
8-9 AM	4231	0.0	2999	3186	1045	17.27+	925	62.0	9.9	37.3
9-10 AM	4429	0.0	3000	3017	1412	17.47+	940	60.6	9.8	37.3
10-11 AM	4552	0.0	3000	3015	1538	17.71+	956	59.7	9.7	37.3
11AM-NOON	4671	0.0	2999	3003	1669	17.86+	967	58.9	9.7	37.3
NOON-1PM	4753	0.0	3000	3000	1753	17.84+	968	58.4	9.7	37.3
1-2 PM	4507	0.0	3000	2976	1531	17.71+	955	60.1	9.7	37.3
2-3 PM	4071	0.0	3000	2969	1103	17.08+	911	63.0	9.9	37.3
3-4 PM	3626	0.0	2999	2995	631	17.01+	899	66.1	9.9	37.3
4-5 PM	3057	0.0	3000	2968	89	16.89+	891	66.9	10.0	37.3
5-6 PM	2711	0.0	2999	2711	0	14.22+	746	67.4	10.7	37.3
6-7 PM	2484	0.0	2999	2484	0	6.34	350	67.6	16.0	39.8
7-8 PM	1956	0.0	3000	1956	0	0.37	2	68.3	55.9	49.7
8-9 PM	1441	0.0	3000	1441	0	0.34	0	68.9	57.1	49.7
9-10 PM	1155	0.0	3000	1155	0	0.35	0	69.3	57.2	49.7
10-11 PM	923	0.0	3000	923	0	0.35	0	69.6	57.3	49.7
11PM-MID	671	0.0	3000	671	0	0.36	0	69.9	57.4	49.7

+ 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

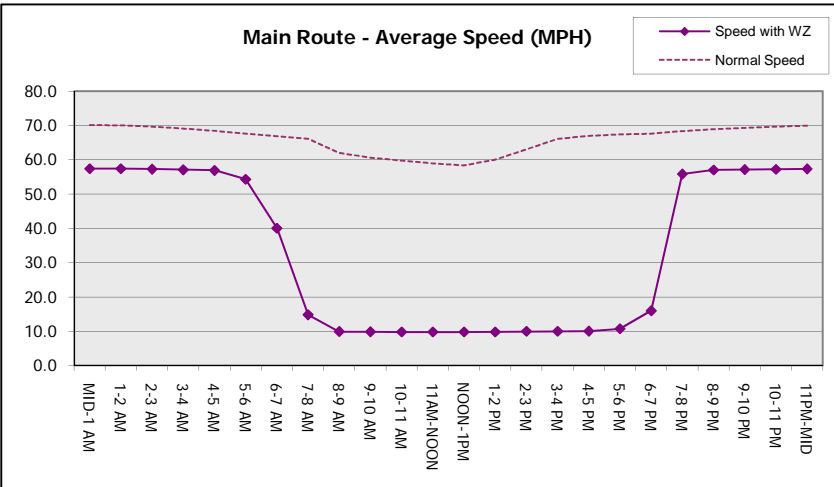
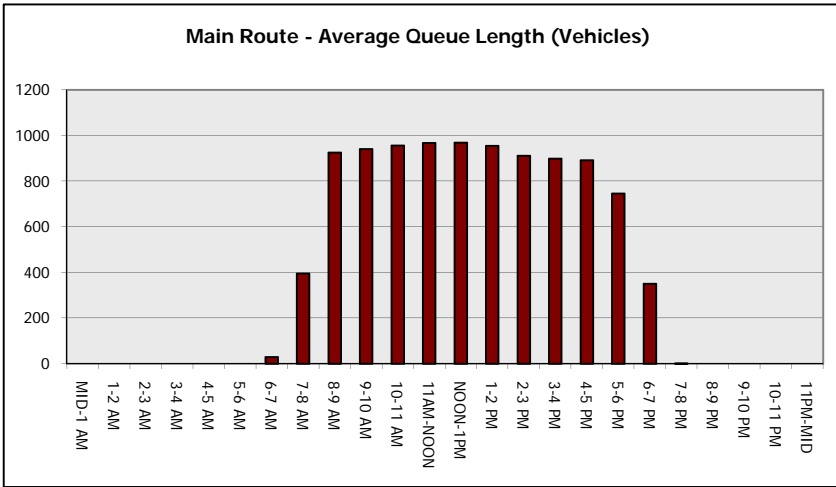
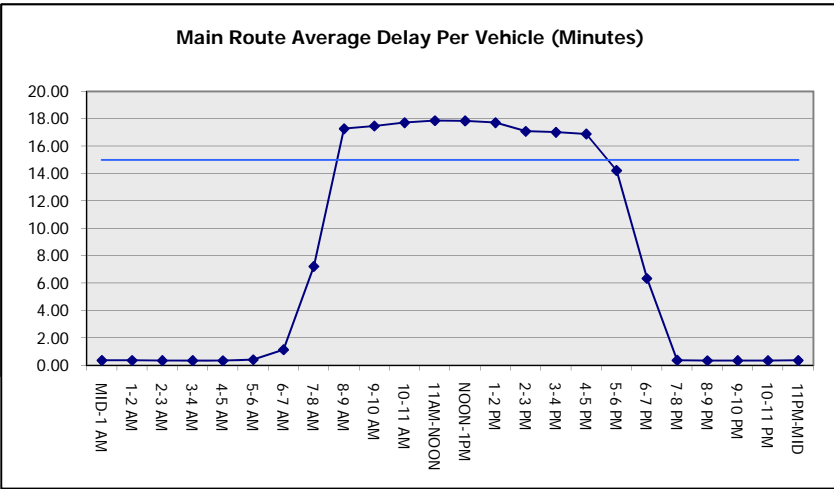
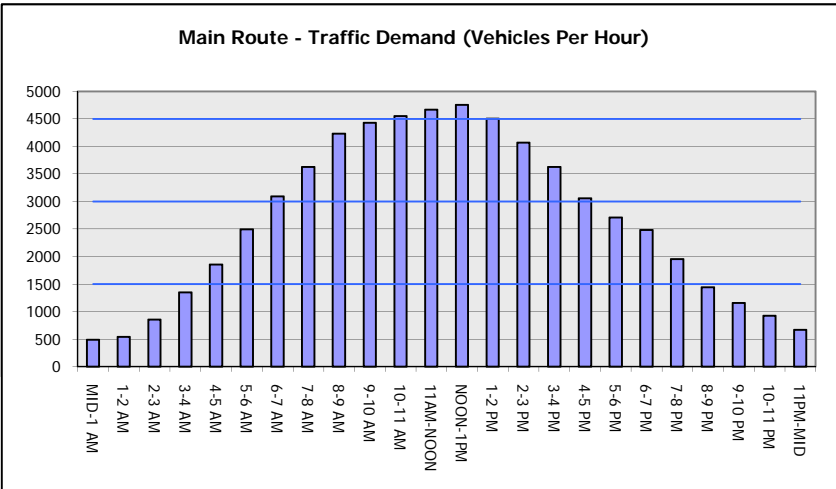
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0192
MAIN ROUTE WITH WORKS	0.0125
'DIVERSION'	0.0075
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$206,760
CONGESTED HOURS PER DAY*	10

*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	1443	0.0	3000	1443	0	0.34	0	68.9	57.1	49.7
1-2 AM	1479	0.0	3000	1479	0	0.34	0	68.9	57.1	49.7
2-3 AM	1862	0.0	3000	1862	0	0.34	0	68.4	56.9	49.7
3-4 AM	2165	0.0	3000	2165	0	0.33	0	68.1	56.8	49.7
4-5 AM	2705	0.0	2999	2705	0	0.53	0	67.4	51.2	42.4
5-6 AM	2983	0.0	2999	2983	0	0.87	11	67.0	44.3	38.3
6-7 AM	3590	0.0	3000	3590	0	5.51	307	66.3	17.3	37.3
7-8 AM	4076	0.0	2999	3275	801	16.41+	876	63.0	10.1	37.3
8-9 AM	4360	0.0	2999	3030	1330	17.32+	930	61.0	9.9	37.3
9-10 AM	4539	0.0	3000	3019	1520	17.67+	954	59.9	9.7	37.3
10-11 AM	4582	0.0	3000	3005	1577	17.79+	961	59.6	9.7	37.3
11AM-NOON	4737	0.0	2999	3000	1737	17.84+	968	58.5	9.7	37.3
NOON-1PM	4829	0.0	3000	3000	1829	17.81+	968	57.9	9.7	37.3
1-2 PM	4676	0.0	3000	3002	1674	17.86+	967	58.9	9.7	37.3
2-3 PM	4457	0.0	3000	2969	1489	17.64+	950	60.4	9.7	37.3
3-4 PM	4046	0.0	3000	2972	1074	17.05+	909	63.2	9.9	37.3
4-5 PM	3543	0.0	3000	2995	548	17.00+	898	66.3	9.9	37.3
5-6 PM	3551	0.0	2999	2998	554	17.00+	898	66.3	9.9	37.3
6-7 PM	3516	0.0	3000	2999	518	17.00+	898	66.4	9.9	37.3
7-8 PM	3099	0.0	3000	2981	118	16.92+	892	66.9	10.0	37.3
8-9 PM	2436	0.0	2999	2436	0	11.75+	628	67.7	11.7	38.1
9-10 PM	2127	0.0	3000	2127	0	0.91	62	68.1	44.2	49.0
10-11 PM	1867	0.0	3000	1867	0	0.34	0	68.4	56.9	49.7
11PM-MID	1672	0.0	3000	1672	0	0.34	0	68.7	57.0	49.7

+ 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	0.0237
MAIN ROUTE WITH WORKS	0.0150
'DIVERSION'	0.0103

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$274,363
CONGESTED HOURS PER DAY*	14

*Delays Exceeding User-Specified Maximum

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