

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	873	0.0	3000	873	0	0.35	0	69.7	58.3	49.7
1-2 AM	483	0.0	3000	483	0	0.36	0	70.1	58.4	49.7
2-3 AM	451	0.0	3000	451	0	0.36	0	70.2	58.5	49.7
3-4 AM	268	0.0	3000	268	0	0.36	0	70.2	58.5	49.7
4-5 AM	311	0.0	3000	311	0	0.36	0	70.2	58.5	49.7
5-6 AM	460	0.0	3000	460	0	0.36	0	70.2	58.4	49.7
6-7 AM	971	0.0	3000	971	0	0.35	0	69.6	58.2	49.7
7-8 AM	1288	0.0	3000	1288	0	0.35	0	69.1	58.1	49.7
8-9 AM	1686	0.0	3000	1686	0	0.34	0	68.6	57.9	49.7
9-10 AM	2573	0.0	2999	2573	0	0.45	0	67.6	54.4	45.2
10-11 AM	3402	0.0	2999	3402	0	3.02	160	66.5	25.7	37.3
11AM-NOON	3853	0.0	3000	3472	381	13.86+	748	64.5	11.1	37.3
NOON-1PM	4313	0.0	3000	3048	1265	17.00+	912	61.4	10.1	37.3
1-2 PM	4144	0.0	3000	2979	1164	16.87+	901	62.5	10.2	37.3
2-3 PM	4399	0.0	2999	3026	1373	17.18+	924	60.8	10.1	37.3
3-4 PM	4155	0.0	3000	2970	1185	16.91+	903	62.5	10.2	37.3
4-5 PM	4111	0.0	2999	3007	1104	16.85+	899	62.8	10.2	37.3
5-6 PM	3288	0.0	3000	2992	295	16.82+	887	66.6	10.2	37.3
6-7 PM	3457	0.0	2999	2997	461	16.84+	889	66.4	10.2	37.3
7-8 PM	3022	0.0	3000	2958	64	16.67+	878	67.0	10.3	37.3
8-9 PM	2638	0.0	2999	2638	0	13.43+	705	67.4	11.2	37.3
9-10 PM	1871	0.0	3000	1871	0	1.38	121	68.4	39.6	49.2
10-11 PM	1443	0.0	3000	1443	0	0.34	0	68.9	58.0	49.7
11PM-MID	836	0.0	3000	836	0	0.35	0	69.7	58.3	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

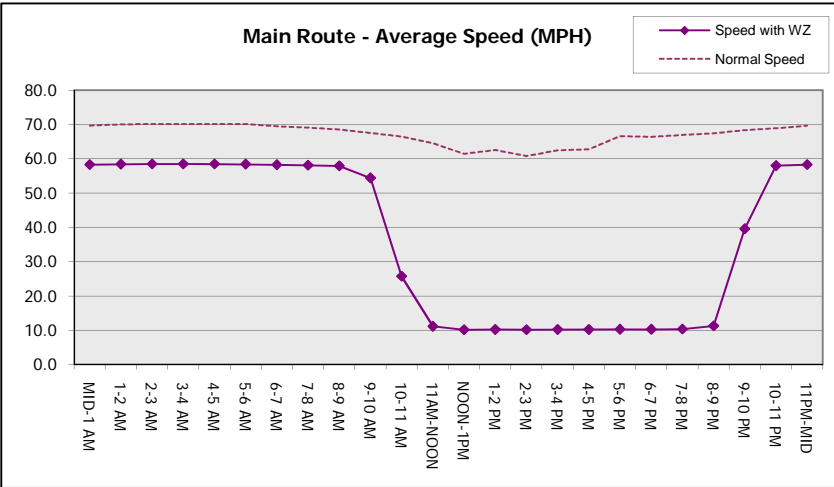
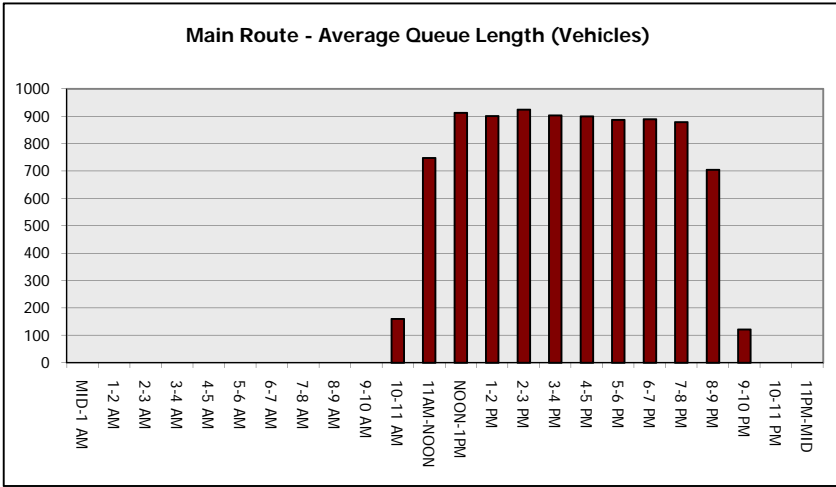
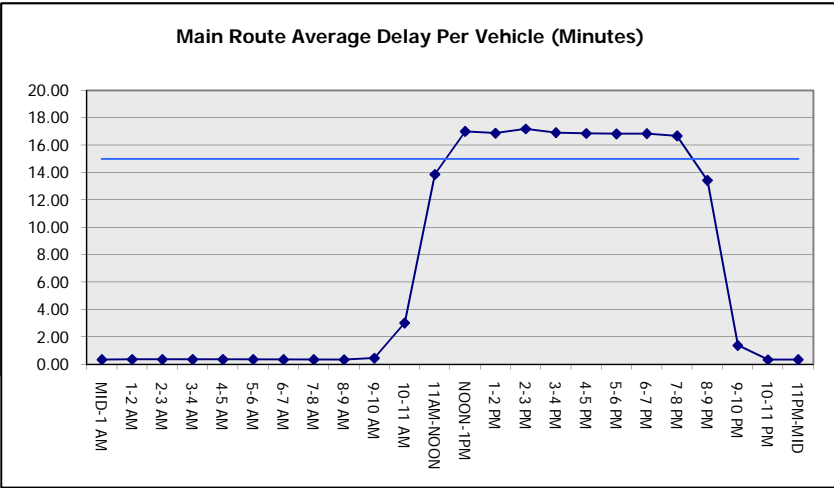
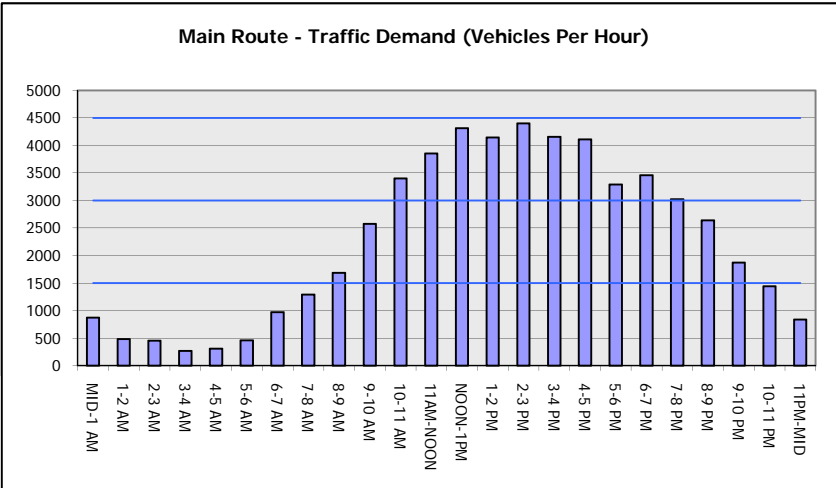
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0181
MAIN ROUTE WITH WORKS	0.0126
'DIVERSION'	0.0056
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$176,908
CONGESTED HOURS PER DAY*	10

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	1514	0.0	3000	1514	0	0.34	0	68.9	58.0	49.7
1-2 AM	960	0.0	3000	960	0	0.35	0	69.6	58.2	49.7
2-3 AM	832	0.0	3000	832	0	0.35	0	69.7	58.3	49.7
3-4 AM	580	0.0	3000	580	0	0.36	0	70.0	58.4	49.7
4-5 AM	488	0.0	3000	488	0	0.36	0	70.1	58.4	49.7
5-6 AM	700	0.0	3000	700	0	0.36	0	69.9	58.4	49.7
6-7 AM	887	0.0	3000	887	0	0.35	0	69.6	58.2	49.7
7-8 AM	1256	0.0	3000	1256	0	0.35	0	69.2	58.1	49.7
8-9 AM	1619	0.0	3000	1619	0	0.34	0	68.7	57.9	49.7
9-10 AM	2405	0.0	3000	2405	0	0.34	0	67.8	57.3	49.2
10-11 AM	2750	0.0	2999	2750	0	0.56	0	67.3	51.7	41.6
11AM-NOON	3292	0.0	2999	3292	0	2.44	115	66.6	29.1	37.3
NOON-1PM	3716	0.0	3000	3695	21	11.68+	634	65.5	12.0	37.3
1-2 PM	3691	0.0	3000	2941	749	16.90+	894	65.6	10.2	37.3
2-3 PM	3663	0.0	2999	2983	681	16.85+	891	65.8	10.2	37.3
3-4 PM	4064	0.0	2999	2987	1077	16.80+	896	63.1	10.2	37.3
4-5 PM	3790	0.0	3000	2997	793	16.82+	892	65.0	10.2	37.3
5-6 PM	3604	0.0	3000	2998	606	16.85+	890	66.3	10.2	37.3
6-7 PM	3624	0.0	2999	2999	625	16.85+	890	66.1	10.2	37.3
7-8 PM	2966	0.0	3000	2916	50	16.47+	867	67.1	10.3	37.3
8-9 PM	2576	0.0	2999	2576	0	11.86+	622	67.5	11.9	37.3
9-10 PM	2115	0.0	3000	2115	0	1.26	95	68.1	40.7	47.8
10-11 PM	1685	0.0	3000	1685	0	0.34	0	68.6	57.9	49.7
11PM-MID	1104	0.0	3000	1104	0	0.35	0	69.4	58.2	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	0.0180
MAIN ROUTE WITH WORKS	0.0132
'DIVERSION'	0.0036

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$145,812
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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