

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) OFF-PEAK DAY 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	OFF	873	0	0.00	0	69.7	69.7	69.7	
1-2 AM	483	0.0	OFF	483	0	0.00	0	70.1	70.1	70.1	
2-3 AM	451	0.0	OFF	451	0	0.00	0	70.2	70.2	70.2	
3-4 AM	268	0.0	OFF	268	0	0.00	0	70.2	70.2	70.2	
4-5 AM	311	0.0	OFF	311	0	0.00	0	70.2	70.2	70.2	
5-6 AM	460	0.0	OFF	460	0	0.00	0	70.2	70.2	70.2	
6-7 AM	971	0.0	OFF	971	0	0.00	0	69.6	69.6	69.6	
7-8 AM	1288	0.0	OFF	1288	0	0.00	0	69.1	69.1	69.1	
8-9 AM	1686	0.0	OFF	1686	0	0.00	0	68.6	68.6	68.6	
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	OFF	3022	0	1.42	133	67.0	38.1	38.1	
8-9 PM	2638	0.0	OFF	2638	0	0.00	0	67.4	67.4	67.4	
9-10 PM	1871	0.0	OFF	1871	0	0.00	0	68.4	68.4	68.4	
10-11 PM	1443	0.0	OFF	1443	0	0.00	0	68.9	68.9	68.9	
11PM-MID	836	0.0	OFF	836	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	0.0
(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	0
(VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

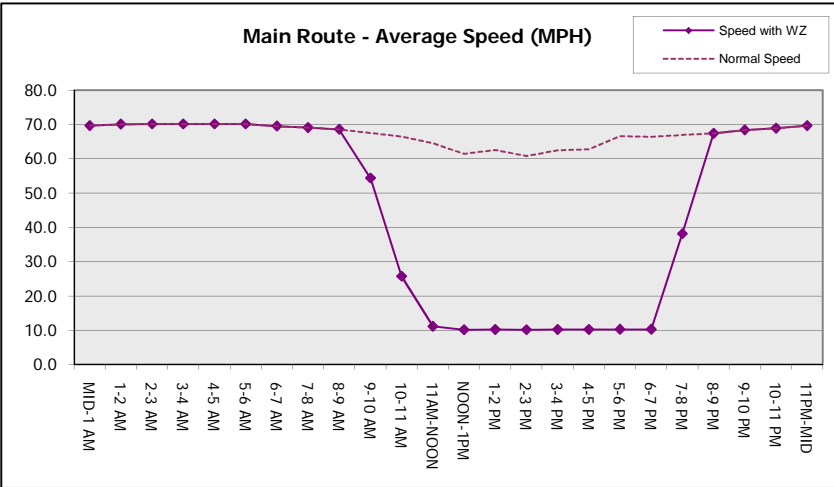
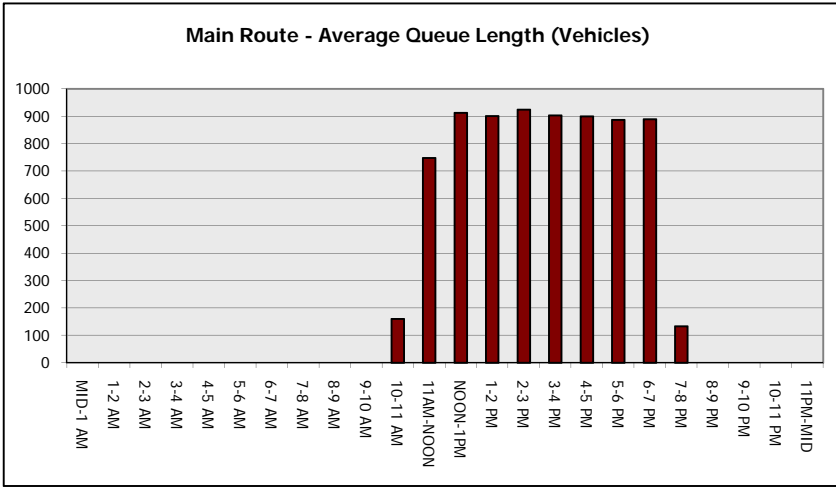
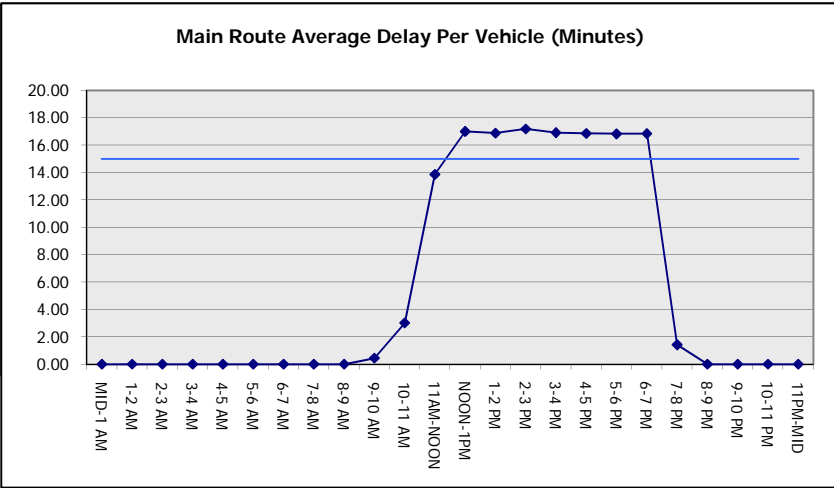
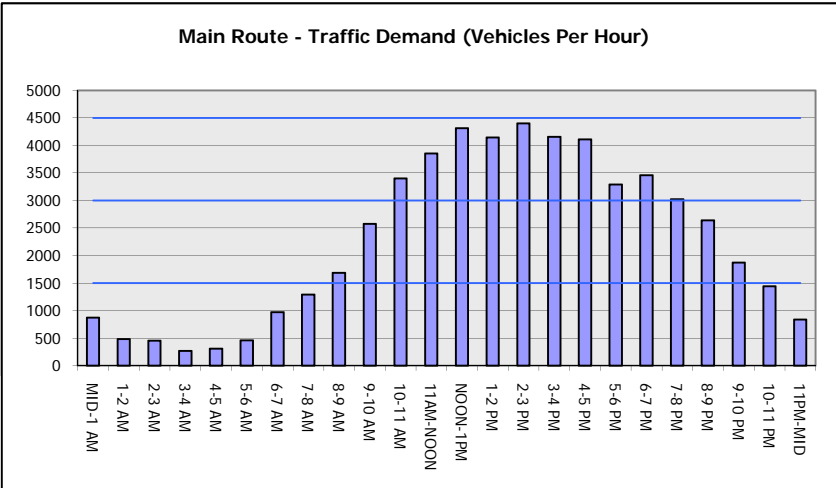
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0181
MAIN ROUTE WITH WORKS	0.0137
'DIVERSION'	0.0056
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$147,823
CONGESTED HOURS PER DAY*	8

*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	OFF	1514	0	0.00	0	68.9	68.9	68.9
1-2 AM	960	0.0	OFF	960	0	0.00	0	69.6	69.6	69.6
2-3 AM	832	0.0	OFF	832	0	0.00	0	69.7	69.7	69.7
3-4 AM	580	0.0	OFF	580	0	0.00	0	70.0	70.0	70.0
4-5 AM	488	0.0	OFF	488	0	0.00	0	70.1	70.1	70.1
5-6 AM	700	0.0	OFF	700	0	0.00	0	69.9	69.9	69.9
6-7 AM	887	0.0	OFF	887	0	0.00	0	69.6	69.6	69.6
7-8 AM	1256	0.0	OFF	1256	0	0.00	0	69.2	69.2	69.2
8-9 AM	1619	0.0	OFF	1619	0	0.00	0	68.7	68.7	68.7
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	OFF	2966	0	1.39	131	67.1	38.6	38.6
8-9 PM	2576	0.0	OFF	2576	0	0.00	0	67.5	67.5	67.5
9-10 PM	2115	0.0	OFF	2115	0	0.00	0	68.1	68.1	68.1
10-11 PM	1685	0.0	OFF	1685	0	0.00	0	68.6	68.6	68.6
11PM-MID	1104	0.0	OFF	1104	0	0.00	0	69.4	69.4	69.4

"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	0.0180
MAIN ROUTE WITH WORKS	0.0145
'DIVERSION'	0.0035

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$119,091
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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