

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	432	0.0	2000	432	0	0.53	0	70.2	54.3	43.8
1-2 AM	369	0.0	2000	369	0	0.52	0	70.2	54.5	44.0
2-3 AM	570	0.0	2000	570	0	0.54	0	70.0	53.8	43.2
3-4 AM	800	0.0	2000	800	0	0.57	0	69.7	53.1	42.4
4-5 AM	1123	0.0	2000	1123	0	0.61	0	69.4	52.0	41.1
5-6 AM	1600	0.0	1999	1600	0	1.15	0	68.7	42.3	30.1
6-7 AM	2432	0.0	1999	2432	0	4.78	167	67.7	19.2	27.9
7-8 AM	3162	0.0	1999	2108	1054	17.16+	565	66.8	8.3	27.9
8-9 AM	3893	0.0	2000	2009	1883	17.46+	579	64.3	8.3	27.9
9-10 AM	4124	0.0	OFF	4124	0	0.93	80	62.7	42.8	42.8
10-11 AM	4152	0.0	OFF	4152	0	0.00	0	62.5	62.5	62.5
11AM-NOON	4281	0.0	OFF	4281	0	0.00	0	61.6	61.6	61.6
NOON-1PM	4413	0.0	OFF	4413	0	0.00	0	60.7	60.7	60.7
1-2 PM	4158	0.0	OFF	4158	0	0.00	0	62.5	62.5	62.5
2-3 PM	3931	0.0	OFF	3931	0	0.00	0	64.0	64.0	64.0
3-4 PM	3643	0.0	OFF	3643	0	0.00	0	66.0	66.0	66.0
4-5 PM	3315	0.0	OFF	3315	0	0.00	0	66.6	66.6	66.6
5-6 PM	2708	0.0	OFF	2708	0	0.00	0	67.4	67.4	67.4
6-7 PM	2185	0.0	OFF	2185	0	0.00	0	68.0	68.0	68.0
7-8 PM	1604	0.0	2000	1604	0	1.23	0	68.7	41.0	28.8
8-9 PM	1079	0.0	2000	1079	0	0.60	0	69.4	52.2	41.4
9-10 PM	712	0.0	2000	712	0	0.56	0	69.9	53.4	42.7
10-11 PM	516	0.0	2000	516	0	0.53	0	70.1	54.0	43.5
11PM-MID	381	0.0	2000	381	0	0.52	0	70.2	54.4	44.0

"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

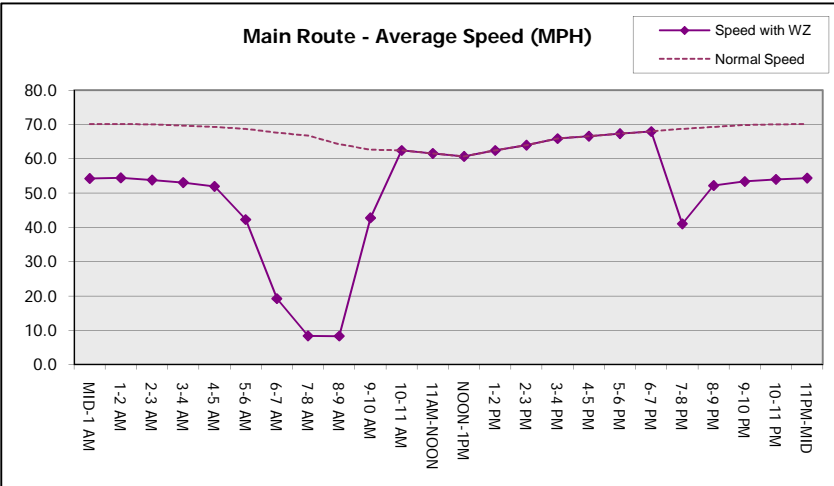
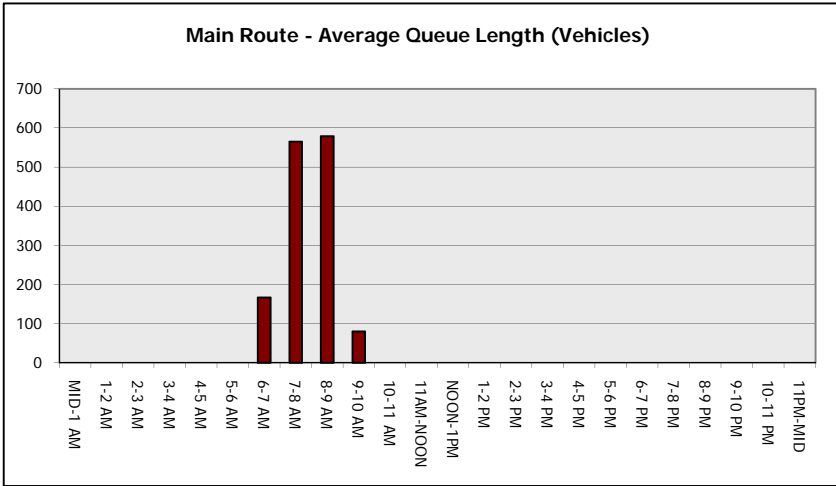
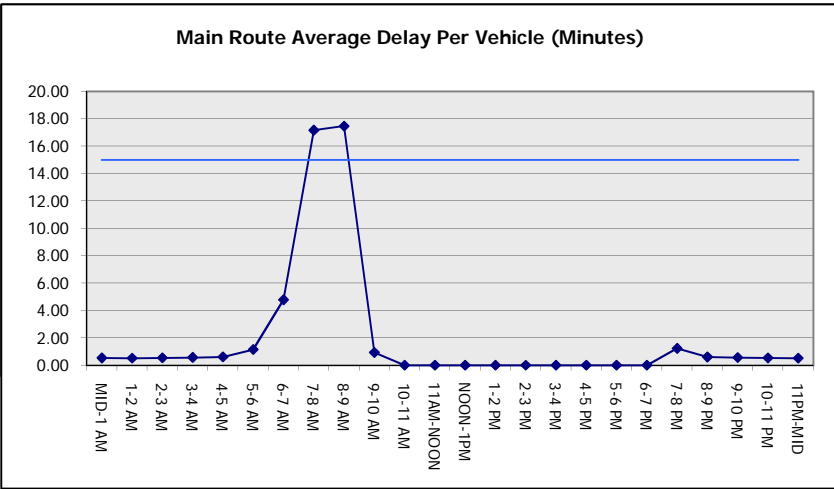
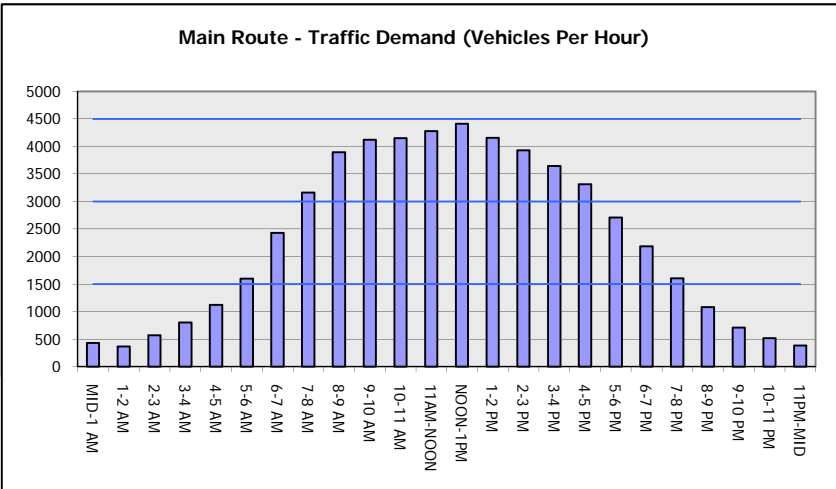
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0186
MAIN ROUTE WITH WORKS	0.0166
'DIVERSION'	0.0023
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$33,308
CONGESTED HOURS PER DAY*	2

*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	1411	0.0	2000	1411	0	0.98	0	69.0	44.8	32.7
1-2 AM	1280	0.0	2000	1280	0	0.81	0	69.1	47.8	36.1
2-3 AM	1384	0.0	2000	1384	0	0.95	0	69.0	45.5	33.3
3-4 AM	1478	0.0	2000	1478	0	1.07	0	68.9	43.5	31.2
4-5 AM	1718	0.0	1999	1718	0	1.29	0	68.6	40.3	28.0
5-6 AM	2078	0.0	1999	2078	0	1.86	24	68.1	34.0	27.9
6-7 AM	2677	0.0	2000	2507	169	10.82+	375	67.4	11.0	27.9
7-8 AM	3196	0.0	2000	1971	1224	17.27+	568	66.8	8.3	27.9
8-9 AM	3707	0.0	1999	2001	1707	17.52+	579	65.5	8.3	27.9
9-10 AM	4072	0.0	OFF	4072	0	1.00	86	63.0	42.0	42.0
10-11 AM	4219	0.0	OFF	4219	0	0.00	0	62.0	62.0	62.0
11AM-NOON	4439	0.0	OFF	4439	0	0.00	0	60.5	60.5	60.5
NOON-1PM	4755	0.0	OFF	4755	0	0.00	0	58.4	58.4	58.4
1-2 PM	4773	0.0	OFF	4773	0	0.00	0	58.2	58.2	58.2
2-3 PM	4440	0.0	OFF	4440	0	0.00	0	60.5	60.5	60.5
3-4 PM	3997	0.0	OFF	3997	0	0.00	0	63.5	63.5	63.5
4-5 PM	3658	0.0	OFF	3658	0	0.00	0	65.9	65.9	65.9
5-6 PM	3171	0.0	OFF	3171	0	0.00	0	66.8	66.8	66.8
6-7 PM	2721	0.0	OFF	2721	0	0.00	0	67.4	67.4	67.4
7-8 PM	2320	0.0	1999	2320	0	5.90	185	67.9	16.3	27.9
8-9 PM	1904	0.0	1999	1904	0	9.55	294	68.4	11.4	27.9
9-10 PM	1605	0.0	1999	1605	0	2.54	75	68.7	28.8	28.9
10-11 PM	1371	0.0	2000	1371	0	0.93	0	69.1	45.7	33.7
11PM-MID	1153	0.0	2000	1153	0	0.65	0	69.3	51.1	40.0

"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	0.0226
MAIN ROUTE WITH WORKS	0.0199
'DIVERSION'	0.0024

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$46,562
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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