

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

FRIDAY 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	584	0.0	2000	584	0	0.54	0	70.0	53.8	43.2	
1-2 AM	802	0.0	2000	802	0	0.57	0	69.7	53.1	42.4	
2-3 AM	2048	0.0	1999	2048	0	2.30	53	68.2	30.4	27.9	
3-4 AM	3824	0.0	2000	2467	1357	16.07+	538	64.7	8.6	27.9	
4-5 AM	4246	0.0	1999	1963	2283	17.31+	577	61.9	8.3	27.9	
5-6 AM	4328	0.0	OFF	4328	0	1.39	123	61.3	36.5	36.5	
6-7 AM	4724	0.0	OFF	4724	0	0.00	0	58.6	58.6	58.6	
7-8 AM	4945	0.0	OFF	4945	0	0.00	0	57.1	57.1	57.1	
8-9 AM	4743	0.0	OFF	4743	0	0.00	0	58.4	58.4	58.4	
9-10 AM	4584	0.0	OFF	4584	0	0.00	0	59.6	59.6	59.6	
10-11 AM	4806	0.0	OFF	4806	0	0.00	0	58.0	58.0	58.0	
11AM-NOON	5320	0.0	OFF	5320	0	0.00	0	54.5	54.5	54.5	
NOON-1PM	5083	0.0	OFF	5083	0	0.00	0	56.1	56.1	56.1	
1-2 PM	4729	0.0	OFF	4729	0	0.00	0	58.6	58.6	58.6	
2-3 PM	5192	0.0	OFF	5192	0	0.00	0	55.4	55.4	55.4	
3-4 PM	4784	0.0	OFF	4784	0	0.00	0	58.2	58.2	58.2	
4-5 PM	3835	0.0	OFF	3835	0	0.00	0	64.6	64.6	64.6	
5-6 PM	3281	0.0	OFF	3281	0	0.00	0	66.6	66.6	66.6	
6-7 PM	2777	0.0	OFF	2777	0	0.00	0	67.3	67.3	67.3	
7-8 PM	2332	0.0	1999	2332	0	6.32	200	67.8	15.5	27.9	
8-9 PM	1679	0.0	1999	1679	0	6.38	206	68.6	15.5	27.9	
9-10 PM	1238	0.0	2000	1238	0	0.75	0	69.2	48.9	37.4	
10-11 PM	1035	0.0	2000	1035	0	0.59	0	69.4	52.4	41.5	
11PM-MID	726	0.0	2000	726	0	0.56	0	69.8	53.3	42.7	

"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 (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

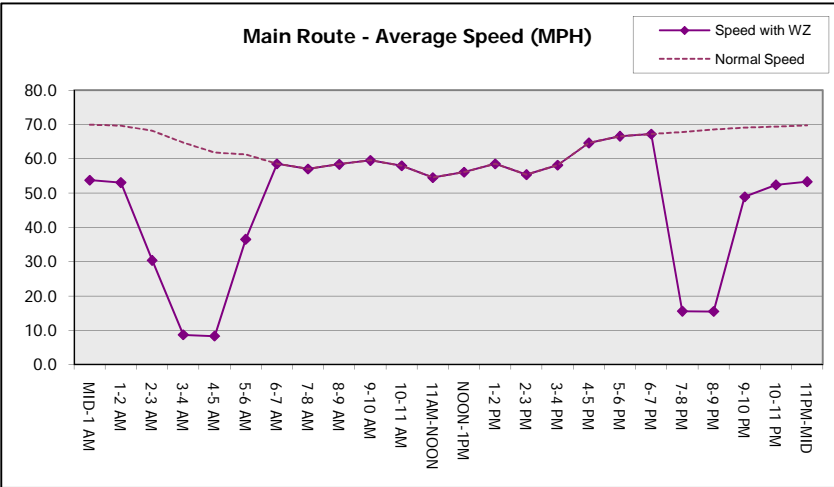
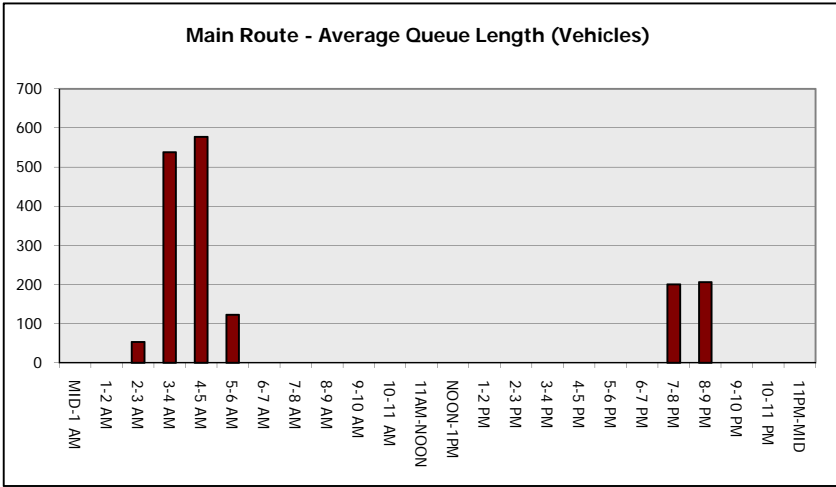
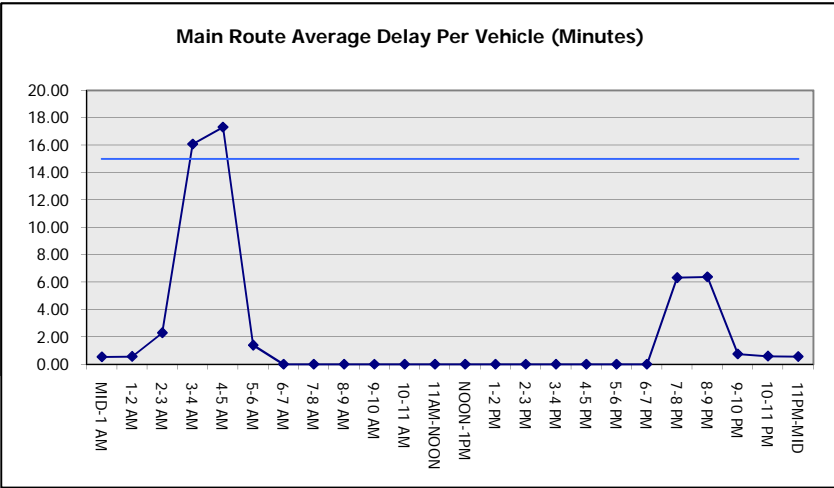
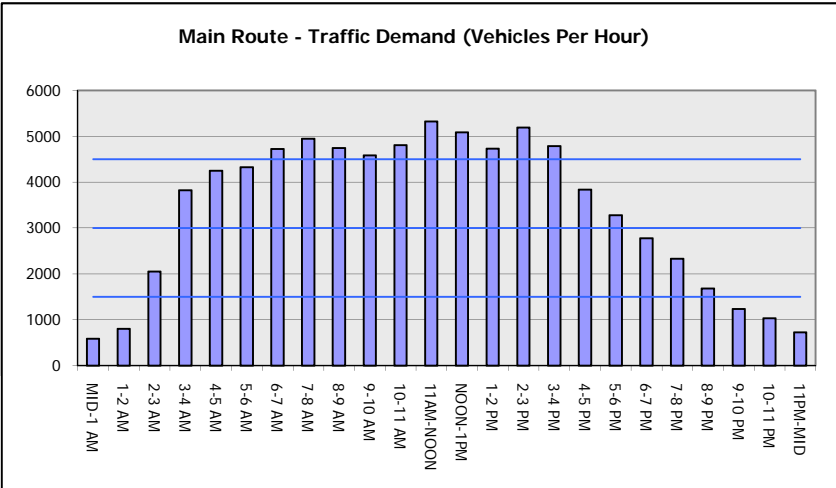
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0273
MAIN ROUTE WITH WORKS	0.0251
'DIVERSION'	0.0028
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$34,534
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	1420	0.0	2000	1420	0	1.61	36	69.0	36.7	31.3	
1-2 AM	1854	0.0	1999	1854	0	1.54	10	68.4	37.3	28.2	
2-3 AM	3239	0.0	2000	2492	746	12.03+	420	66.7	10.2	27.9	
3-4 AM	4431	0.0	1999	2000	2431	17.34+	580	60.6	8.3	27.9	
4-5 AM	5002	0.0	2000	2000	3002	17.15+	580	56.7	8.3	27.9	
5-6 AM	4828	0.0	OFF	4828	0	1.36	121	57.9	35.6	35.6	
6-7 AM	5087	0.0	OFF	5087	0	0.00	0	56.1	56.1	56.1	
7-8 AM	5291	0.0	OFF	5291	0	0.00	0	54.7	54.7	54.7	
8-9 AM	4990	0.0	OFF	4990	0	0.00	0	56.8	56.8	56.8	
9-10 AM	4979	0.0	OFF	4979	0	0.00	0	56.8	56.8	56.8	
10-11 AM	5255	0.0	OFF	5255	0	0.00	0	55.0	55.0	55.0	
11AM-NOON	5697	0.0	OFF	5697	0	0.00	0	51.9	51.9	51.9	
NOON-1PM	5986	0.0	OFF	5986	0	0.00	0	49.9	49.9	49.9	
1-2 PM	6430	0.0	OFF	6430	0	0.00	0	46.9	46.9	46.9	
2-3 PM	5989	0.0	OFF	5989	0	0.00	0	49.9	49.9	49.9	
3-4 PM	5193	0.0	OFF	5193	0	0.00	0	55.4	55.4	55.4	
4-5 PM	4630	0.0	OFF	4630	0	0.00	0	59.2	59.2	59.2	
5-6 PM	4345	0.0	OFF	4345	0	0.00	0	61.2	61.2	61.2	
6-7 PM	4075	0.0	OFF	4075	0	0.00	0	63.0	63.0	63.0	
7-8 PM	3421	0.0	1999	2492	928	14.37+	473	66.5	9.1	27.9	
8-9 PM	2707	0.0	1999	2022	685	17.15+	563	67.4	8.3	27.9	
9-10 PM	2247	0.0	2000	2046	201	16.94+	555	67.9	8.4	27.9	
10-11 PM	1935	0.0	2000	1934	1	16.61+	543	68.3	8.5	27.9	
11PM-MID	1714	0.0	1999	1714	0	11.39	367	68.6	10.4	27.9	

"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	0.0337
MAIN ROUTE WITH WORKS	0.0297
'DIVERSION'	0.0062

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$79,181
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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