

USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	572	0.0	1500	572	0	0.54	0	70.0	55.0	43.2	
1-2 AM	330	0.0	1500	330	0	0.51	0	70.2	55.6	44.2	
2-3 AM	257	0.0	1500	257	0	0.50	0	70.2	55.8	44.5	
3-4 AM	267	0.0	1500	267	0	0.50	0	70.2	55.8	44.4	
4-5 AM	390	0.0	1500	390	0	0.52	0	70.2	55.5	43.9	
5-6 AM	713	0.0	1500	713	0	0.56	0	69.9	54.5	42.7	
6-7 AM	1183	0.0	1499	1183	0	0.71	0	69.2	51.0	38.5	
7-8 AM	1638	0.0	1499	1638	0	2.06	35	68.7	33.9	30.8	
8-9 AM	2251	0.0	OFF	2251	0	0.03	2	67.9	66.9	66.9	
9-10 AM	2916	0.0	OFF	2916	0	0.00	0	67.1	67.1	67.1	
10-11 AM	3385	0.0	OFF	3385	0	0.00	0	66.5	66.5	66.5	
11AM-NOON	3528	0.0	OFF	3528	0	0.00	0	66.3	66.3	66.3	
NOON-1PM	3490	0.0	OFF	3490	0	0.00	0	66.4	66.4	66.4	
1-2 PM	3358	0.0	OFF	3358	0	0.00	0	66.6	66.6	66.6	
2-3 PM	3502	0.0	OFF	3502	0	0.00	0	66.4	66.4	66.4	
3-4 PM	3679	0.0	OFF	3679	0	0.00	0	65.7	65.7	65.7	
4-5 PM	3367	0.0	OFF	3367	0	0.00	0	66.6	66.6	66.6	
5-6 PM	2678	0.0	OFF	2678	0	0.00	0	67.4	67.4	67.4	
6-7 PM	2285	0.0	1499	1940	345	12.32+	313	67.9	9.9	30.8	
7-8 PM	1904	0.0	1499	1499	406	16.62+	406	68.4	7.9	30.8	
8-9 PM	1576	0.0	1499	1467	109	16.46+	402	68.7	8.0	30.8	
9-10 PM	1467	0.0	1500	1463	4	16.25+	396	68.9	8.1	30.8	
10-11 PM	1242	0.0	1499	1242	0	10.19	256	69.2	11.4	31.7	
11PM-MID	925	0.0	1500	925	0	0.85	12	69.6	48.6	41.9	

"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	0.0172
MAIN ROUTE WITH WORKS	0.0159
'DIVERSION'	0.0007

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

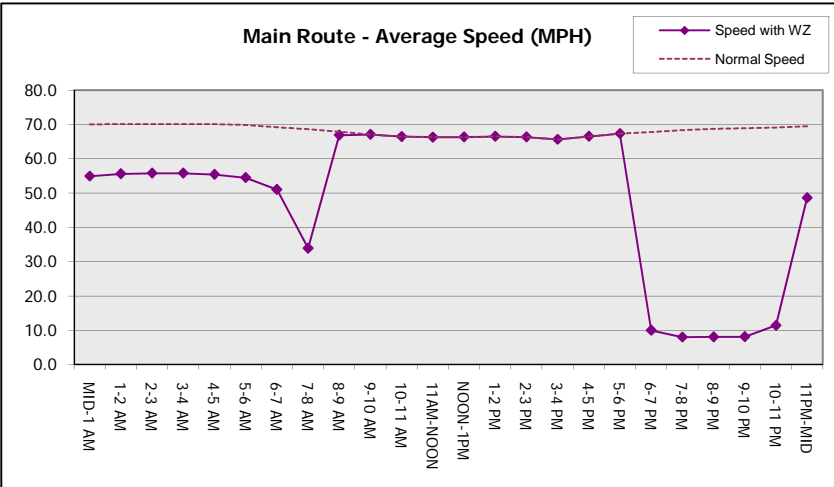
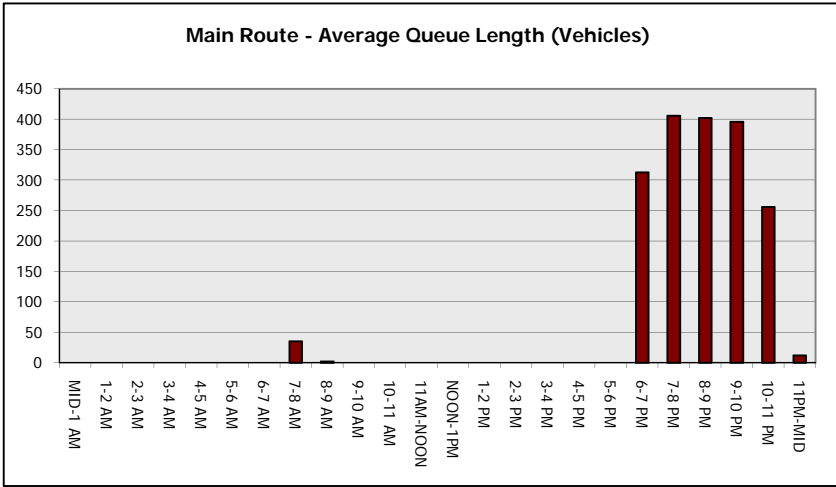
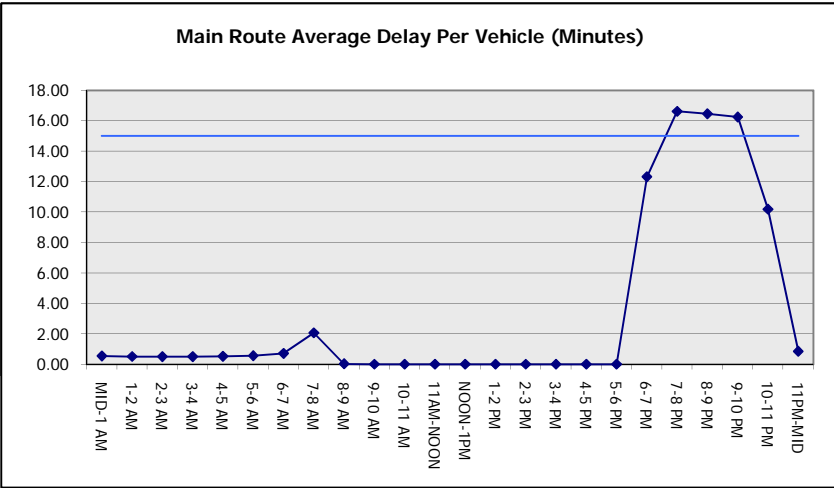
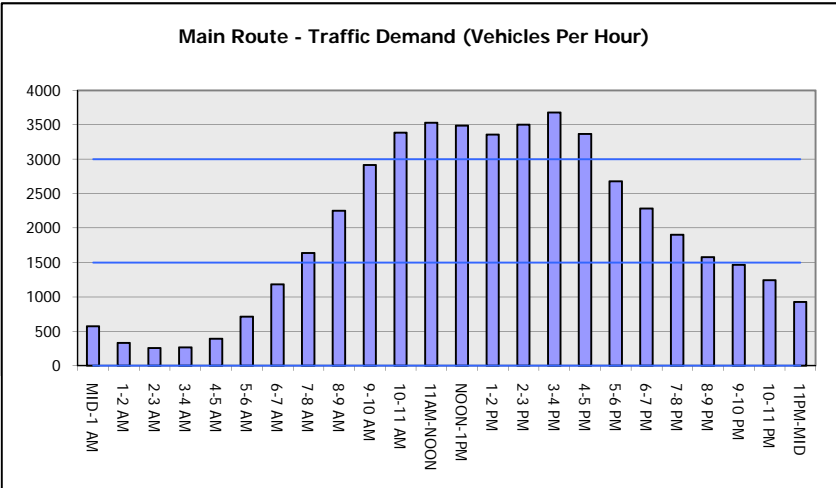
ROAD USER COSTS PER DAY	\$33,705
CONGESTED HOURS PER DAY*	4

*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	978	0.0	1500	978	0	0.70	4	69.5	51.4	41.7	
1-2 AM	544	0.0	1500	544	0	0.54	0	70.0	55.0	43.3	
2-3 AM	432	0.0	1500	432	0	0.53	0	70.2	55.4	43.8	
3-4 AM	321	0.0	1500	321	0	0.51	0	70.2	55.6	44.2	
4-5 AM	402	0.0	1500	402	0	0.52	0	70.2	55.5	43.9	
5-6 AM	779	0.0	1500	779	0	0.56	0	69.7	54.3	42.5	
6-7 AM	1359	0.0	1499	1359	0	0.90	0	69.1	47.5	34.3	
7-8 AM	1796	0.0	1499	1796	0	4.56	119	68.5	21.0	30.8	
8-9 AM	2283	0.0	OFF	2283	0	0.13	11	67.9	63.8	63.8	
9-10 AM	2700	0.0	OFF	2700	0	0.00	0	67.4	67.4	67.4	
10-11 AM	3066	0.0	OFF	3066	0	0.00	0	66.9	66.9	66.9	
11AM-NOON	3245	0.0	OFF	3245	0	0.00	0	66.7	66.7	66.7	
NOON-1PM	3613	0.0	OFF	3613	0	0.00	0	66.2	66.2	66.2	
1-2 PM	3586	0.0	OFF	3586	0	0.00	0	66.3	66.3	66.3	
2-3 PM	3623	0.0	OFF	3623	0	0.00	0	66.1	66.1	66.1	
3-4 PM	3670	0.0	OFF	3670	0	0.00	0	65.8	65.8	65.8	
4-5 PM	3173	0.0	OFF	3173	0	0.00	0	66.8	66.8	66.8	
5-6 PM	3017	0.0	OFF	3017	0	0.00	0	67.0	67.0	67.0	
6-7 PM	2405	0.0	1499	1937	468	13.08+	325	67.8	9.4	31.4	
7-8 PM	2112	0.0	1499	1499	614	16.62+	406	68.1	7.9	30.8	
8-9 PM	2031	0.0	1499	1499	532	16.62+	406	68.2	7.9	30.8	
9-10 PM	2156	0.0	1499	1499	657	16.62+	406	68.1	7.9	30.8	
10-11 PM	1828	0.0	1499	1491	338	16.59+	405	68.4	7.9	30.8	
11PM-MID	1140	0.0	1499	1140	0	9.95+	270	69.3	11.7	33.5	

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0184
MAIN ROUTE WITH WORKS	0.0164
'DIVERSION'	0.0022

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$49,662
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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