

USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) 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	3000	572	0	0.36	0	70.0	59.2	49.7
1-2 AM	330	0.0	3000	330	0	0.36	0	70.2	59.3	49.7
2-3 AM	257	0.0	3000	257	0	0.36	0	70.2	59.3	49.7
3-4 AM	267	0.0	3000	267	0	0.36	0	70.2	59.3	49.7
4-5 AM	390	0.0	3000	390	0	0.36	0	70.2	59.3	49.7
5-6 AM	713	0.0	3000	713	0	0.36	0	69.9	59.2	49.7
6-7 AM	1183	0.0	3000	1183	0	0.35	0	69.2	58.9	49.7
7-8 AM	1638	0.0	3000	1638	0	0.34	0	68.7	58.7	49.7
8-9 AM	2251	0.0	2999	2251	0	0.34	0	67.9	58.2	49.4
9-10 AM	2916	0.0	2999	2916	0	0.77	7	67.1	48.8	39.1
10-11 AM	3385	0.0	3000	3385	0	3.88	202	66.5	23.2	37.3
11AM-NOON	3528	0.0	3000	3528	0	12.67+	674	66.3	11.9	37.3
NOON-1PM	3490	0.0	2999	2972	518	16.69+	881	66.4	10.5	37.3
1-2 PM	3358	0.0	2999	2986	372	16.69+	880	66.6	10.6	37.3
2-3 PM	3502	0.0	2999	2993	509	16.70+	881	66.4	10.5	37.3
3-4 PM	3679	0.0	2999	2996	683	16.69+	883	65.7	10.5	37.3
4-5 PM	3367	0.0	3000	2997	370	16.68+	880	66.6	10.6	37.3
5-6 PM	2678	0.0	2999	2678	0	14.40+	757	67.4	11.2	37.3
6-7 PM	2285	0.0	2999	2285	0	3.04	244	67.9	27.9	44.4
7-8 PM	1904	0.0	3000	1904	0	0.34	0	68.4	58.6	49.7
8-9 PM	1576	0.0	3000	1576	0	0.34	0	68.7	58.7	49.7
9-10 PM	1467	0.0	3000	1467	0	0.34	0	68.9	58.8	49.7
10-11 PM	1242	0.0	3000	1242	0	0.35	0	69.2	58.9	49.7
11PM-MID	925	0.0	3000	925	0	0.35	0	69.6	59.1	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

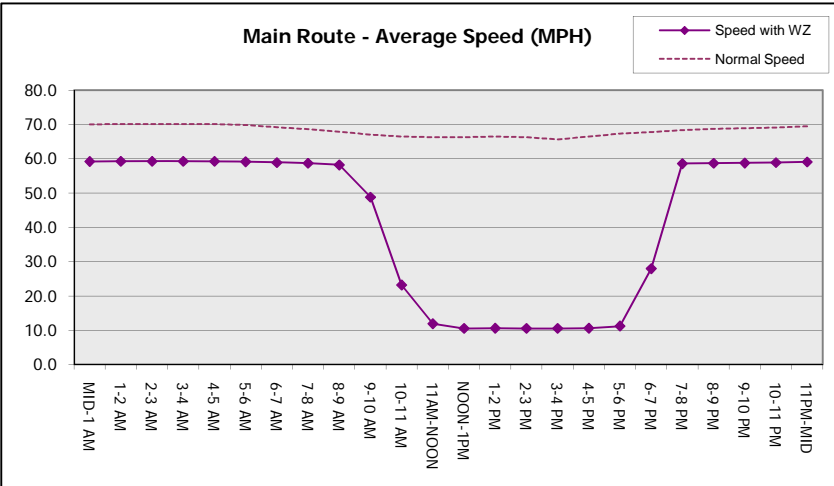
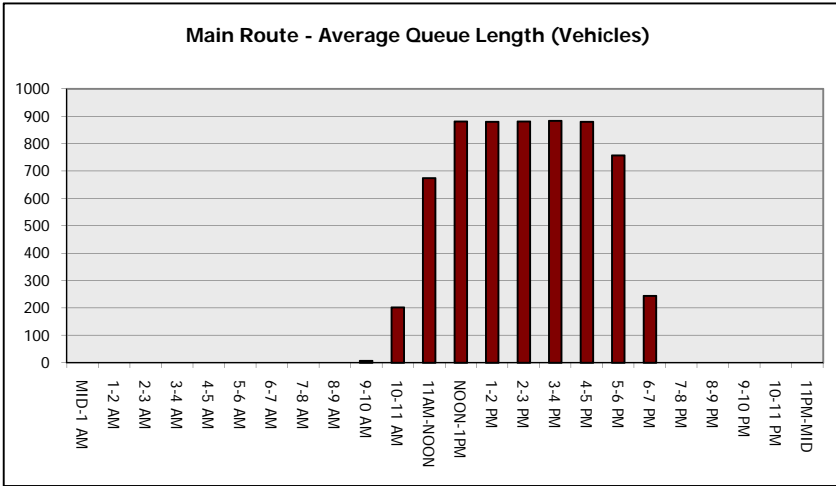
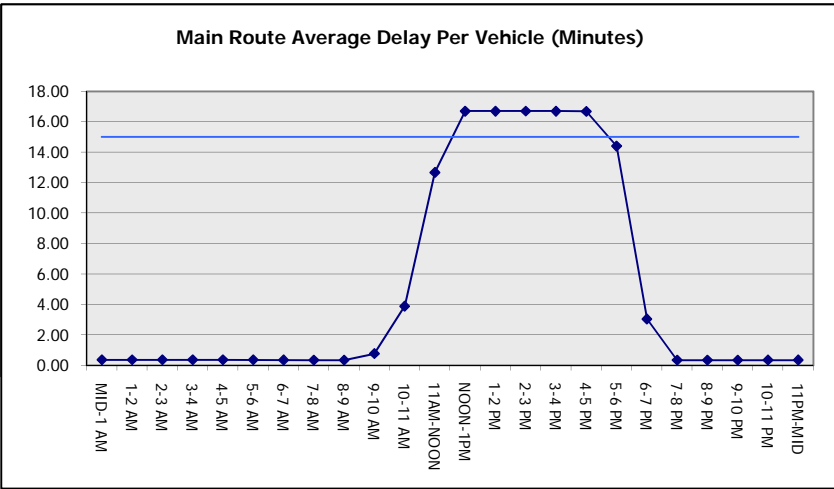
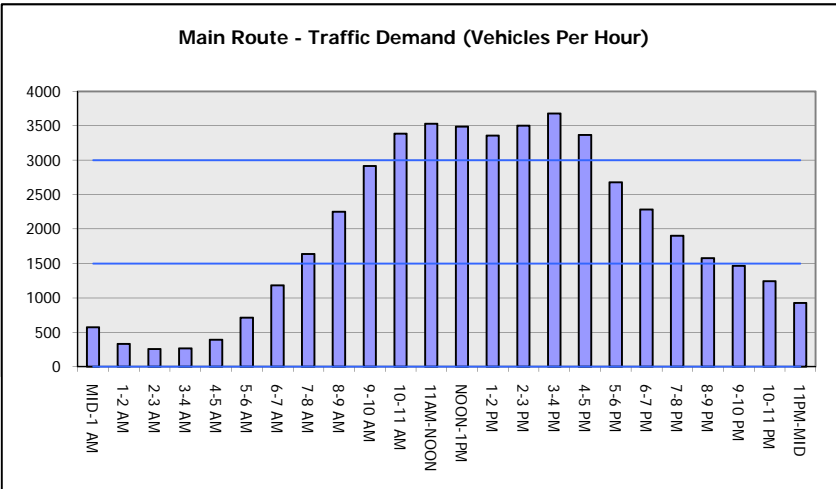
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0172
MAIN ROUTE WITH WORKS	0.0133
'DIVERSION'	0.0021
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$112,744
CONGESTED HOURS PER DAY*	7

*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	3000	978	0	0.35	0	69.5	59.1	49.7
1-2 AM	544	0.0	3000	544	0	0.36	0	70.0	59.3	49.7
2-3 AM	432	0.0	3000	432	0	0.36	0	70.2	59.3	49.7
3-4 AM	321	0.0	3000	321	0	0.36	0	70.2	59.3	49.7
4-5 AM	402	0.0	3000	402	0	0.36	0	70.2	59.3	49.7
5-6 AM	779	0.0	3000	779	0	0.35	0	69.7	59.2	49.7
6-7 AM	1359	0.0	3000	1359	0	0.34	0	69.1	58.9	49.7
7-8 AM	1796	0.0	3000	1796	0	0.34	0	68.5	58.6	49.7
8-9 AM	2283	0.0	3000	2283	0	0.33	0	67.9	58.4	49.7
9-10 AM	2700	0.0	2999	2700	0	0.53	0	67.4	53.5	42.5
10-11 AM	3066	0.0	2999	3066	0	1.00	16	66.9	45.1	37.3
11AM-NOON	3245	0.0	3000	3245	0	3.62	171	66.7	24.3	37.3
NOON-1PM	3613	0.0	3000	3613	0	11.31+	607	66.2	12.5	37.3
1-2 PM	3586	0.0	2999	2982	605	16.71+	882	66.3	10.5	37.3
2-3 PM	3623	0.0	2999	2990	634	16.70+	882	66.1	10.5	37.3
3-4 PM	3670	0.0	2999	2994	675	16.69+	883	65.8	10.5	37.3
4-5 PM	3173	0.0	3000	2995	178	16.67+	878	66.8	10.6	37.3
5-6 PM	3017	0.0	2999	2959	58	16.54+	871	67.0	10.6	37.3
6-7 PM	2405	0.0	2999	2405	0	10.64+	574	67.8	13.0	38.8
7-8 PM	2112	0.0	3000	2112	0	0.71	36	68.1	50.4	49.6
8-9 PM	2031	0.0	3000	2031	0	0.33	0	68.2	58.6	49.7
9-10 PM	2156	0.0	3000	2156	0	0.33	0	68.1	58.5	49.7
10-11 PM	1828	0.0	3000	1828	0	0.34	0	68.4	58.6	49.7
11PM-MID	1140	0.0	3000	1140	0	0.35	0	69.3	59.0	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	0.0184
MAIN ROUTE WITH WORKS	0.0144
'DIVERSION'	0.0018

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$105,183
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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