

USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) OFF-PEAK DAY 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	502	0.0	OFF	502	0	0.00	0	70.1	70.1	70.1	
1-2 AM	301	0.0	OFF	301	0	0.00	0	70.2	70.2	70.2	
2-3 AM	230	0.0	OFF	230	0	0.00	0	70.2	70.2	70.2	
3-4 AM	182	0.0	OFF	182	0	0.00	0	70.2	70.2	70.2	
4-5 AM	204	0.0	OFF	204	0	0.00	0	70.2	70.2	70.2	
5-6 AM	325	0.0	OFF	325	0	0.00	0	70.2	70.2	70.2	
6-7 AM	641	0.0	OFF	641	0	0.00	0	69.9	69.9	69.9	
7-8 AM	886	0.0	OFF	886	0	0.00	0	69.6	69.6	69.6	
8-9 AM	1307	0.0	OFF	1307	0	0.00	0	69.1	69.1	69.1	
9-10 AM	2009	0.0	1499	2009	0	6.81	207	68.2	15.9	30.8	
10-11 AM	2826	0.0	1500	1479	1347	16.64+	409	67.2	7.9	31.4	
11AM-NOON	3442	0.0	1499	1487	1955	16.68+	410	66.4	7.9	30.8	
NOON-1PM	3595	0.0	1499	1494	2101	16.70+	410	66.3	7.9	30.8	
1-2 PM	3432	0.0	1499	1492	1940	16.69+	410	66.4	7.9	30.8	
2-3 PM	3388	0.0	1499	1493	1895	16.70+	410	66.5	7.9	30.8	
3-4 PM	3212	0.0	1499	1491	1721	16.70+	410	66.8	7.9	30.8	
4-5 PM	3176	0.0	1499	1492	1683	16.71+	410	66.8	7.9	30.8	
5-6 PM	2903	0.0	1499	1490	1413	16.68+	409	67.1	7.9	30.8	
6-7 PM	2614	0.0	1499	1496	1117	16.63+	407	67.5	7.9	30.8	
7-8 PM	2285	0.0	OFF	2285	0	0.26	24	67.9	60.3	60.3	
8-9 PM	1837	0.0	OFF	1837	0	0.00	0	68.4	68.4	68.4	
9-10 PM	1381	0.0	OFF	1381	0	0.00	0	69.0	69.0	69.0	
10-11 PM	981	0.0	OFF	981	0	0.00	0	69.5	69.5	69.5	
11PM-MID	605	0.0	OFF	605	0	0.00	0	70.0	70.0	70.0	

"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

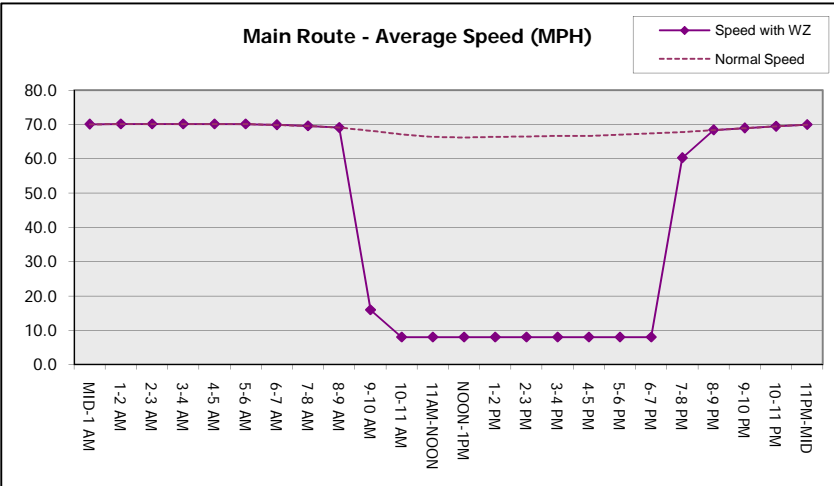
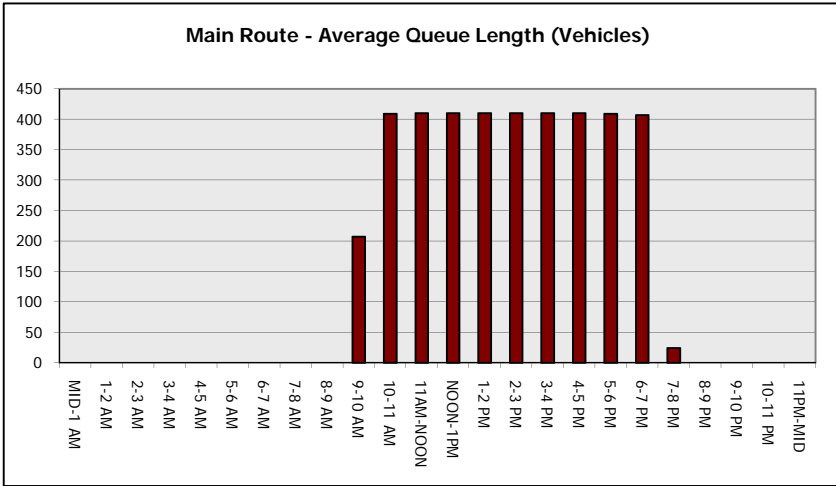
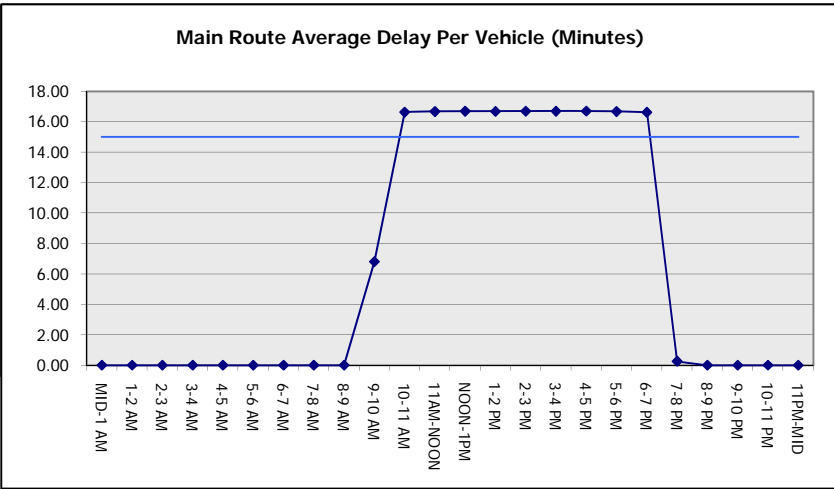
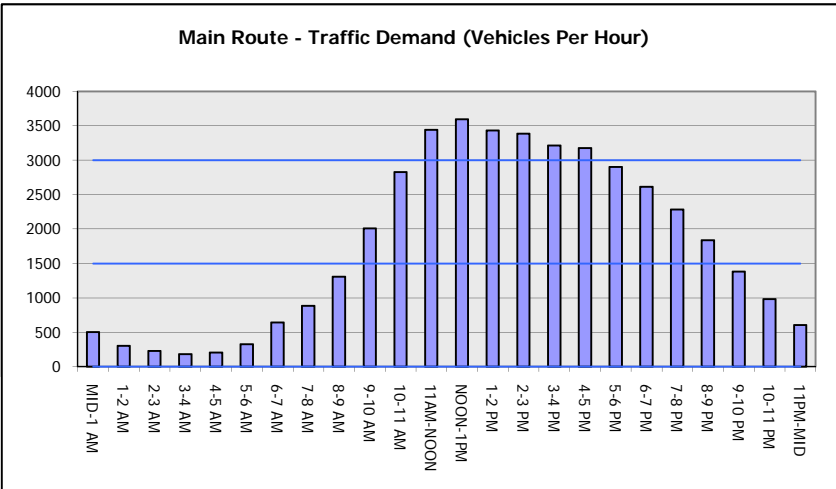
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0155
MAIN ROUTE WITH WORKS	0.0089
'DIVERSION'	0.0129
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$136,859
CONGESTED HOURS PER DAY*	9

*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	698	0.0	OFF	698	0	0.00	0	69.9	69.9	69.9
1-2 AM	433	0.0	OFF	433	0	0.00	0	70.2	70.2	70.2
2-3 AM	373	0.0	OFF	373	0	0.00	0	70.2	70.2	70.2
3-4 AM	226	0.0	OFF	226	0	0.00	0	70.2	70.2	70.2
4-5 AM	194	0.0	OFF	194	0	0.00	0	70.2	70.2	70.2
5-6 AM	316	0.0	OFF	316	0	0.00	0	70.2	70.2	70.2
6-7 AM	561	0.0	OFF	561	0	0.00	0	70.0	70.0	70.0
7-8 AM	836	0.0	OFF	836	0	0.00	0	69.7	69.7	69.7
8-9 AM	1241	0.0	OFF	1241	0	0.00	0	69.2	69.2	69.2
9-10 AM	1815	0.0	1499	1815	0	4.74	126	68.5	20.4	30.8
10-11 AM	2228	0.0	1499	1551	676	16.41+	401	67.9	8.0	30.8
11AM-NOON	2513	0.0	1500	1507	1006	16.64+	407	67.6	7.9	30.8
NOON-1PM	3055	0.0	1500	1511	1545	16.69+	409	66.9	7.9	30.8
1-2 PM	2887	0.0	1500	1510	1378	16.67+	409	67.1	7.9	30.8
2-3 PM	3000	0.0	1500	1506	1493	16.70+	409	67.0	7.9	30.8
3-4 PM	3087	0.0	1500	1504	1583	16.72+	410	66.9	7.9	30.8
4-5 PM	3353	0.0	1500	1500	1853	16.73+	411	66.6	7.9	30.8
5-6 PM	3001	0.0	1500	1502	1498	16.70+	409	67.0	7.9	30.8
6-7 PM	2383	0.0	1500	1500	883	16.61+	407	67.8	7.9	30.8
7-8 PM	2017	0.0	OFF	2017	0	0.22	20	68.2	61.5	61.5
8-9 PM	1589	0.0	OFF	1589	0	0.00	0	68.7	68.7	68.7
9-10 PM	1307	0.0	OFF	1307	0	0.00	0	69.1	69.1	69.1
10-11 PM	1048	0.0	OFF	1048	0	0.00	0	69.4	69.4	69.4
11PM-MID	597	0.0	OFF	597	0	0.00	0	70.0	70.0	70.0

"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	0.0142
MAIN ROUTE WITH WORKS	0.0088
'DIVERSION'	0.0101

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$120,932
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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