

IH 43: SILVER SPRING DR TO STH 190 (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY Analyzed for 2009 Construction Season
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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	429	0.0	1500	429	0	0.80	13	70.2	55.0	43.7	
1-2 AM	253	0.0	1500	253	0	0.50	0	70.2	59.8	44.5	
2-3 AM	235	0.0	1500	235	0	0.50	0	70.2	59.9	44.5	
3-4 AM	270	0.0	1500	270	0	0.51	0	70.2	59.8	44.4	
4-5 AM	547	0.0	1500	547	0	0.54	0	70.0	59.1	43.3	
5-6 AM	1484	0.0	OFF	1484	0	0.00	0	68.9	68.9	68.9	
6-7 AM	3721	0.0	OFF	3721	0	0.00	0	65.5	65.5	65.5	
7-8 AM	5425	0.0	OFF	5425	0	0.00	0	53.8	53.8	53.8	
8-9 AM	4588	0.0	OFF	4588	0	0.00	0	59.5	59.5	59.5	
9-10 AM	3559	0.0	OFF	3559	0	0.00	0	66.3	66.3	66.3	
10-11 AM	3260	0.0	OFF	3260	0	0.00	0	66.7	66.7	66.7	
11AM-NOON	3493	0.0	OFF	3493	0	0.00	0	66.4	66.4	66.4	
NOON-1PM	3455	0.0	OFF	3455	0	0.00	0	66.4	66.4	66.4	
1-2 PM	3694	0.0	OFF	3694	0	0.00	0	65.6	65.6	65.6	
2-3 PM	3455	0.0	OFF	3455	0	0.00	0	66.4	66.4	66.4	
3-4 PM	4664	0.0	OFF	4664	0	0.00	0	59.0	59.0	59.0	
4-5 PM	4754	0.0	OFF	4754	0	0.00	0	58.4	58.4	58.4	
5-6 PM	4213	0.0	OFF	4213	0	0.00	0	62.1	62.1	62.1	
6-7 PM	3933	0.0	OFF	3933	0	0.00	0	64.0	64.0	64.0	
7-8 PM	2706	0.0	1499	1599	1107	14.75+	373	67.4	11.5	36.2	
8-9 PM	2063	0.0	1499	1832	231	13.05+	332	68.2	12.7	30.8	
9-10 PM	1900	0.0	1500	1500	400	16.36+	400	68.4	10.6	30.8	
10-11 PM	1662	0.0	1499	1467	196	16.23+	396	68.7	10.6	30.8	
11PM-MID	1263	0.0	1499	1263	0	12.68+	317	69.2	13.0	31.7	

"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

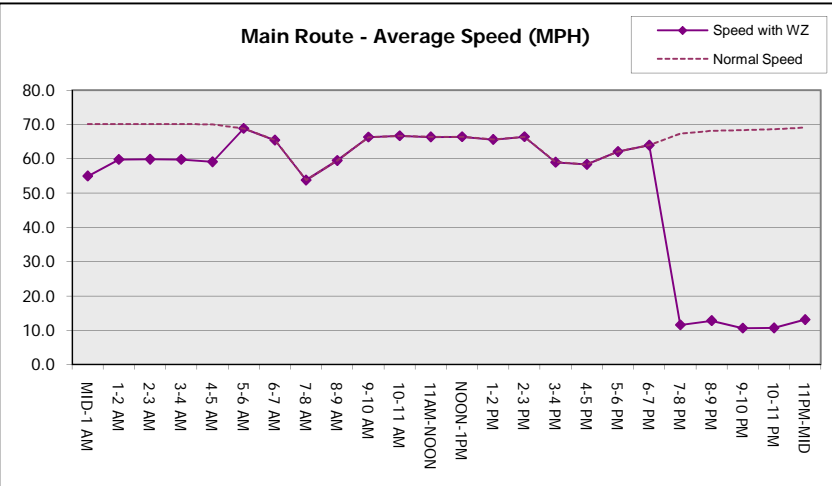
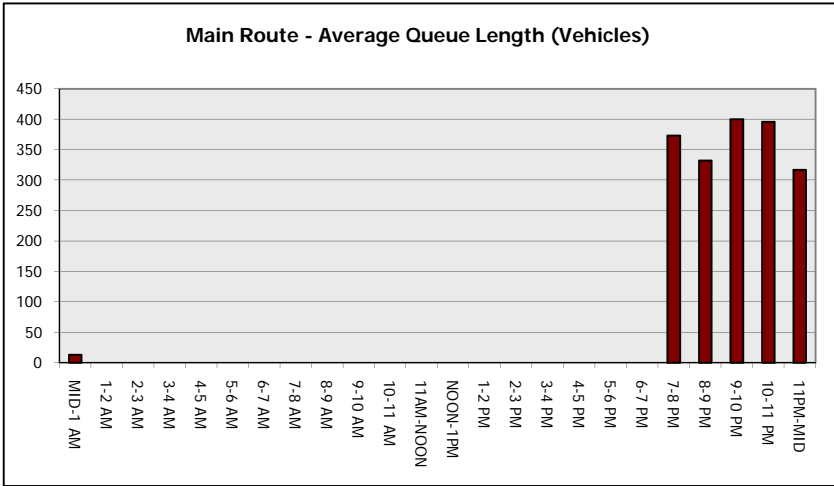
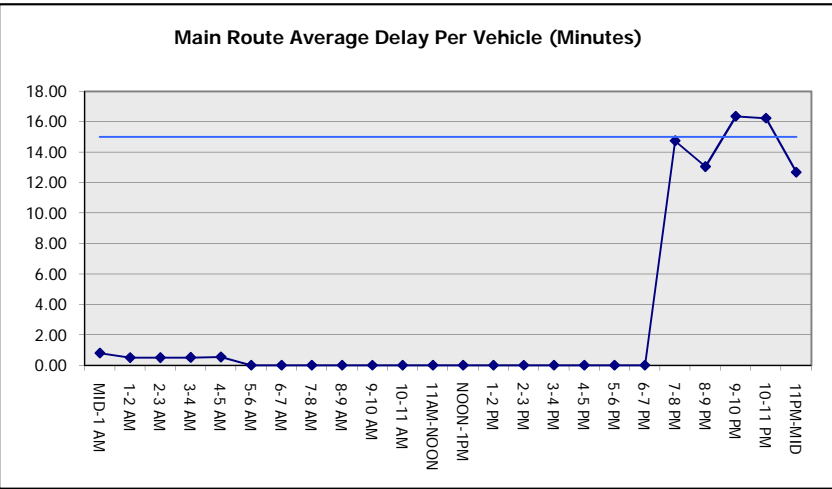
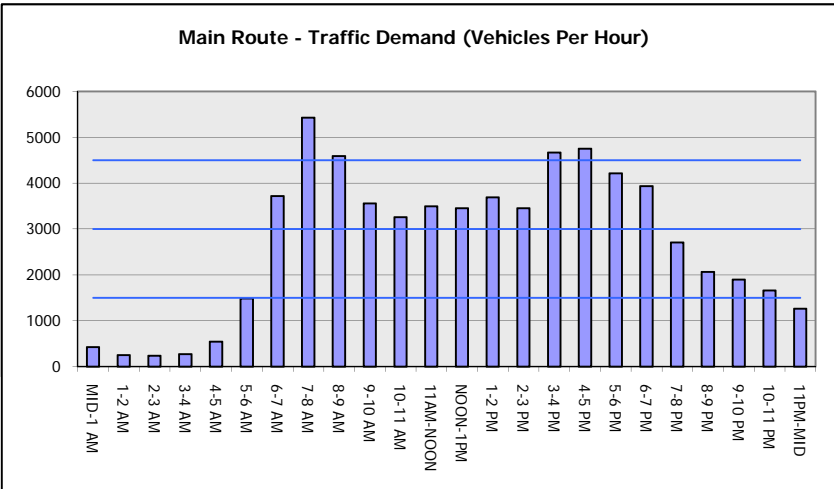
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0352
MAIN ROUTE WITH WORKS	0.0335
'DIVERSION'	0.0024
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$33,410
CONGESTED HOURS PER DAY*	5

*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	693	0.0	1499	693	0	2.30	101	69.9	39.1	41.7
1-2 AM	506	0.0	1500	506	0	0.53	0	70.1	59.2	43.5
2-3 AM	388	0.0	1500	388	0	0.52	0	70.2	59.5	44.0
3-4 AM	349	0.0	1500	349	0	0.52	0	70.2	59.6	44.1
4-5 AM	483	0.0	1500	483	0	0.53	0	70.1	59.3	43.6
5-6 AM	1594	0.0	OFF	1594	0	0.00	0	68.7	68.7	68.7
6-7 AM	3349	0.0	OFF	3349	0	0.00	0	66.6	66.6	66.6
7-8 AM	4588	0.0	OFF	4588	0	0.00	0	59.5	59.5	59.5
8-9 AM	4048	0.0	OFF	4048	0	0.00	0	63.2	63.2	63.2
9-10 AM	3242	0.0	OFF	3242	0	0.00	0	66.7	66.7	66.7
10-11 AM	3105	0.0	OFF	3105	0	0.00	0	66.9	66.9	66.9
11AM-NOON	3442	0.0	OFF	3442	0	0.00	0	66.4	66.4	66.4
NOON-1PM	3761	0.0	OFF	3761	0	0.00	0	65.1	65.1	65.1
1-2 PM	3838	0.0	OFF	3838	0	0.00	0	64.6	64.6	64.6
2-3 PM	3608	0.0	OFF	3608	0	0.00	0	66.2	66.2	66.2
3-4 PM	5287	0.0	OFF	5287	0	0.00	0	54.7	54.7	54.7
4-5 PM	5745	0.0	OFF	5745	0	0.00	0	51.6	51.6	51.6
5-6 PM	4832	0.0	OFF	4832	0	0.00	0	57.8	57.8	57.8
6-7 PM	3674	0.0	OFF	3674	0	0.00	0	65.8	65.8	65.8
7-8 PM	2752	0.0	1499	1625	1127	14.50+	368	67.3	11.6	36.1
8-9 PM	2384	0.0	1499	1687	697	14.10+	361	67.8	11.9	34.5
9-10 PM	2502	0.0	1499	1500	1003	16.23+	399	67.6	10.6	32.2
10-11 PM	2418	0.0	1500	1507	911	16.23+	399	67.8	10.6	32.0
11PM-MID	1639	0.0	1500	1549	90	15.74+	384	68.7	10.9	30.8

"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	0.0369
MAIN ROUTE WITH WORKS	0.0342
'DIVERSION'	0.0048

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$42,765
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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