

<b>USH 41/45: USH 41 &amp; USH 45 TO CTH Q (WASHINGTON COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR                      SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR										AVERAGE SPEEDS IN MPH				
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	273	0.0	19	0.0	1500	273	0	19	0.51	0	70.2	55.8	44.4	24.7	24.7
1-2 AM	172	0.0	11	0.0	1500	172	0	11	0.49	0	70.2	56.1	44.8	24.8	24.8
2-3 AM	180	0.0	12	0.0	1500	180	0	12	0.49	0	70.2	56.1	44.8	24.7	24.7
3-4 AM	275	0.0	19	0.0	1500	275	0	19	0.51	0	70.2	55.8	44.4	24.7	24.7
4-5 AM	608	0.0	41	0.0	1500	608	0	41	0.54	0	70.0	54.8	43.1	24.5	24.5
5-6 AM	1911	0.0	129	0.0	OFF	1911	0	129	0.00	0	68.4	68.4	68.4	23.8	23.8
6-7 AM	3835	0.0	257	0.0	OFF	3835	0	257	0.00	0	64.6	64.6	64.6	22.9	22.9
7-8 AM	4368	0.0	293	0.0	OFF	4368	0	293	0.00	0	61.0	61.0	61.0	22.6	22.6
8-9 AM	2855	0.0	191	0.0	OFF	2855	0	191	0.00	0	67.2	67.2	67.2	23.3	23.3
9-10 AM	2237	0.0	150	0.0	OFF	2237	0	150	0.00	0	67.9	67.9	67.9	23.7	23.7
10-11 AM	2128	0.0	143	0.0	OFF	2128	0	143	0.00	0	68.1	68.1	68.1	23.7	23.7
11A-NOON	2154	0.0	145	0.0	OFF	2154	0	145	0.00	0	68.1	68.1	68.1	23.7	23.7
NOON-1PM	2241	0.0	150	0.0	OFF	2241	0	150	0.00	0	67.9	67.9	67.9	23.7	23.7
1-2 PM	2227	0.0	149	0.0	OFF	2227	0	149	0.00	0	67.9	67.9	67.9	23.7	23.7
2-3 PM	2545	0.0	171	0.0	OFF	2545	0	171	0.00	0	67.6	67.6	67.6	23.5	23.5
3-4 PM	2757	0.0	185	0.0	OFF	2757	0	185	0.00	0	67.3	67.3	67.3	23.4	23.4
4-5 PM	2709	0.0	182	0.0	OFF	2709	0	182	0.00	0	67.4	67.4	67.4	23.4	23.4
5-6 PM	2385	0.0	161	0.0	OFF	2385	0	161	0.00	0	67.8	67.8	67.8	23.6	23.6
6-7 PM	1805	0.0	121	0.0	OFF	1805	0	121	0.00	0	68.5	68.5	68.5	23.9	23.9
7-8 PM	1370	0.0	92	0.0	1500	1370	0	92	0.93	0	69.1	47.1	33.7	24.2	24.2
8-9 PM	1218	0.0	82	0.0	1500	1218	0	82	0.73	0	69.2	50.7	37.9	24.2	24.2
9-10 PM	993	0.0	67	0.0	1500	993	0	67	0.59	0	69.5	53.7	41.7	24.3	24.3
10-11 PM	784	0.0	52	0.0	1500	784	0	52	0.56	0	69.7	54.3	42.5	24.5	24.5
11PM-MID	583	0.0	39	0.0	1500	583	0	39	0.54	0	70.0	54.9	43.2	24.5	24.5

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

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0156
MAIN ROUTE WITH WORKS	0.0152
DIVERSION	0.0138

PIA: Personal Injury Accidents

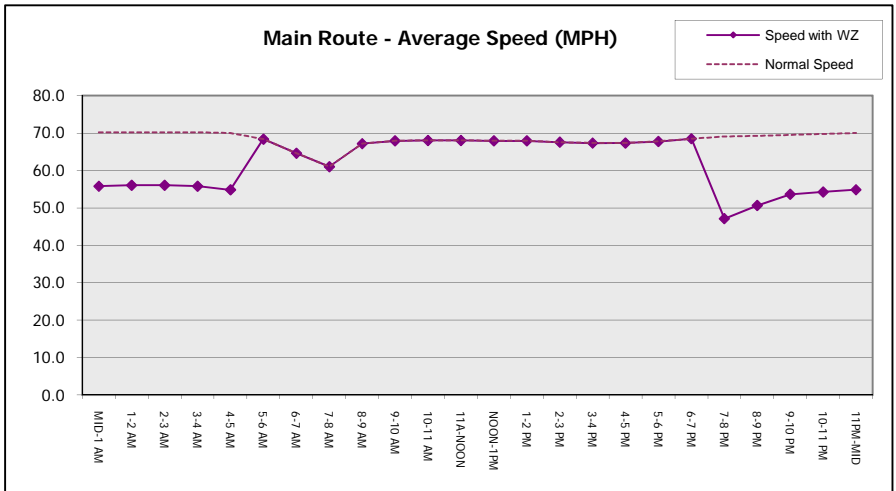
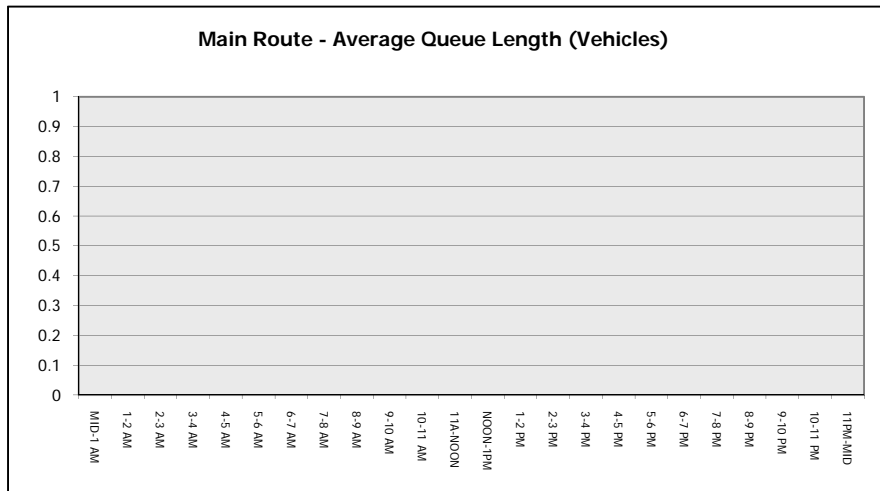
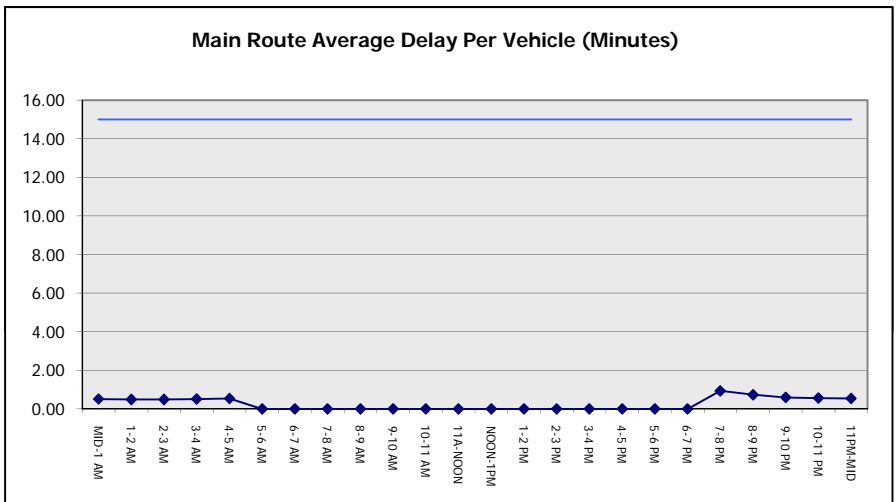
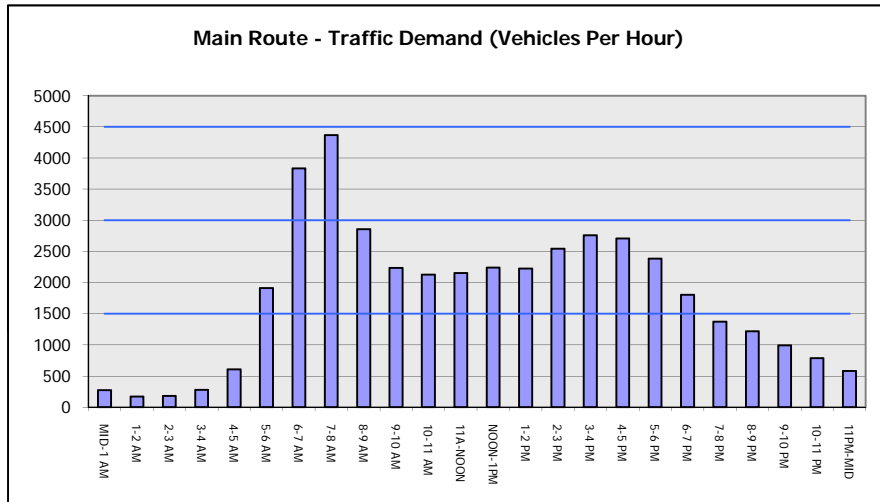
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$979
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 41/45: USH 41 & USH 45 TO CTH Q (WASHINGTON COUNTY)**  
**NIGHTTIME 2 LANE CLOSURE**  
**DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR SOUTHBOUND DIRECTION**



<b>USH 41/45: USH 41 &amp; USH 45 TO CTH Q (WASHINGTON COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD</b>	<b>AUGUST</b> Analyzed for 2009 Construction Season
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<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
MON-THUR	NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	354	0.0	24	0.0	1500	354	0	24	0.52	0	70.2	55.6	44.1	24.7	24.7
1-2 AM	216	0.0	14	0.0	1500	216	0	14	0.50	0	70.2	56.0	44.6	24.7	24.7
2-3 AM	179	0.0	12	0.0	1500	179	0	12	0.49	0	70.2	56.1	44.8	24.7	24.7
3-4 AM	197	0.0	13	0.0	1500	197	0	13	0.50	0	70.2	56.0	44.7	24.7	24.7
4-5 AM	451	0.0	30	0.0	1500	451	0	30	0.53	0	70.2	55.3	43.7	24.6	24.6
5-6 AM	1163	0.0	78	0.0	OFF	1163	0	78	0.00	0	69.3	69.3	69.3	24.2	24.2
6-7 AM	2018	0.0	136	0.0	OFF	2018	0	136	0.00	0	68.2	68.2	68.2	23.8	23.8
7-8 AM	2086	0.0	140	0.0	OFF	2086	0	140	0.00	0	68.1	68.1	68.1	23.8	23.8
8-9 AM	1836	0.0	124	0.0	OFF	1836	0	124	0.00	0	68.4	68.4	68.4	23.9	23.9
9-10 AM	1729	0.0	116	0.0	OFF	1729	0	116	0.00	0	68.6	68.6	68.6	24.0	24.0
10-11 AM	1841	0.0	124	0.0	OFF	1841	0	124	0.00	0	68.4	68.4	68.4	23.9	23.9
11A-NOON	2000	0.0	135	0.0	OFF	2000	0	135	0.00	0	68.2	68.2	68.2	23.8	23.8
NOON-1PM	2087	0.0	140	0.0	OFF	2087	0	140	0.00	0	68.1	68.1	68.1	23.8	23.8
1-2 PM	2290	0.0	154	0.0	OFF	2290	0	154	0.00	0	67.9	67.9	67.9	23.7	23.7
2-3 PM	3008	0.0	202	0.0	OFF	3008	0	202	0.00	0	67.0	67.0	67.0	23.3	23.3
3-4 PM	3696	0.0	248	0.0	OFF	3696	0	248	0.00	0	65.6	65.6	65.6	22.9	22.9
4-5 PM	4428	0.0	297	0.0	OFF	4428	0	297	0.00	0	60.6	60.6	60.6	22.5	22.5
5-6 PM	4022	0.0	271	0.0	OFF	4022	0	271	0.00	0	63.4	63.4	63.4	22.8	22.8
6-7 PM	2344	0.0	157	0.0	OFF	2344	0	157	0.00	0	67.8	67.8	67.8	23.7	23.7
7-8 PM	1609	0.0	108	0.0	1499	1609	0	108	4.19	85	68.7	22.3	30.8	24.0	24.0
8-9 PM	1357	0.0	92	0.0	1499	1357	0	92	2.59	54	69.1	30.1	32.7	24.2	24.2
9-10 PM	1158	0.0	78	0.0	1500	1158	0	78	0.65	0	69.3	52.2	39.9	24.2	24.2
10-11 PM	1016	0.0	68	0.0	1500	1016	0	68	0.59	0	69.5	53.6	41.6	24.3	24.3
11PM-MID	645	0.0	43	0.0	1500	645	0	43	0.55	0	69.9	54.7	43.0	24.5	24.5

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

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0153
MAIN ROUTE WITH WORKS	0.0148
DIVERSION	0.0135

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$2,900
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

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**NIGHTTIME 2 LANE CLOSURE**  
**DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD**

**AUGUST**  
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**MON-THUR NORTHBOUND DIRECTION**

