

# FREEVAL-WZ Report

## Summary Output

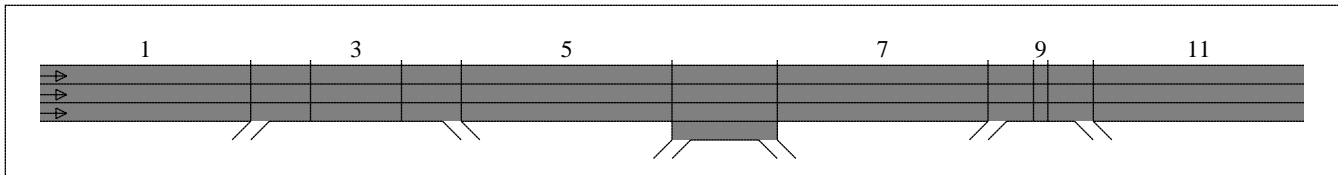
**Project:** New Project

**Facility Length:** 6.0 miles (11 segments)

**Analyst:** Analyst1

**Analysis Period:** 10:00am - 10:00am (96 time periods)

**Scenario:** Base Year



Performance Measure	Base Scenario	WZ Scenario 1	WZ Scenario 2	WZ Scenario 3
	New Project	WZ 1	WZ 2	WZ 3
Average Travel Time (min)	5.27	5.27	5.38	6.13
VMTD (veh-miles / interval)	335,012	335,012	335,012	335,012
VMTV (veh-miles / interval)	335,012	335,012	335,012	334,983
PMTD (p-miles / interval)	335,012	335,012	335,012	335,012
PMTV (p-miles / interval)	335,012	335,012	335,012	334,983
VHT (travel / interval (hrs))	4,907	4,910	5,009	5,720
VHD (delay / interval (hrs))	121	124	223	935
Space Mean Speed (mph)	68.3	68.2	66.9	58.6
Reported Density (pc/mi/ln)	11.8	11.8	12.8	13.8
Max D/C	0.59	0.60	0.93	1.77
Max V/C	0.59	0.60	0.93	0.97
User Cost (\$)	6,173.04	6,311.96	11,341.82	47,605.37
Max Hourly User Cost (\$)	552.55	584.00	1,354.84	34,187.04
<b>Work Zone Summary</b>				
WZ Name	-	WZ 1	WZ 2	WZ 3
Time Active	-	10:00-10:00	10:00-10:00	18:00-19:00
Segments Active	-	7	7	7
Severity	-	Shoulder closure	1 lane closure	2 lane closure
WZ Speed Limit	-	55	55	55
Area Type	-	Urban	Urban	Urban
Barrier Type	-	Concrete	Concrete	Concrete
Lateral Distance	-	2.00 ft	2.00 ft	2.00 ft

#	Segment Name	Length (ft)	Type
1		5,280	Basic
2		1,500	On-Ramp
3		2,280	Basic
4		1,500	Off-Ramp
5		5,280	Basic
6		2,640	Weaving

#	Segment Name	Length (ft)	Type
7		5,280	Basic
8		1,140	On-Ramp
9		360	Overlap
10		1,140	Off-Ramp
11		5,280	Basic

## Facility Contours - Density Based LOS

### Base Scenario - New Project

Analysis Period	1	2	3	4	5	6	7	8	9	10	11
10:00-10:15	B	B	B	C	B	B	B	B	C	C	B
10:15-10:30	B	B	B	C	B	B	B	B	C	C	B
10:30-10:45	B	B	B	C	B	B	B	B	C	C	B
10:45-11:00	B	B	B	C	B	B	B	B	C	C	B
11:00-11:15	B	B	B	C	B	B	B	B	C	C	B
11:15-11:30	B	B	B	C	B	B	B	B	C	C	B
11:30-11:45	B	B	B	C	B	B	B	B	C	C	B
11:45-12:00	B	C	B	C	B	B	B	C	C	C	B
12:00-12:15	B	C	B	C	B	B	B	C	C	C	B
12:15-12:30	B	C	C	C	B	B	B	C	C	C	B
12:30-12:45	B	C	C	C	B	B	B	C	C	C	B
12:45-13:00	B	C	C	C	B	B	B	C	C	C	B
13:00-13:15	C	C	C	C	C	B	C	C	C	C	C
13:15-13:30	C	C	C	C	C	B	C	C	C	C	C
13:30-13:45	C	C	C	C	C	B	C	C	C	C	C
13:45-14:00	C	C	C	C	C	B	C	C	C	C	C
14:00-14:15	C	C	C	C	C	B	C	C	C	C	C
14:15-14:30	C	C	C	C	C	B	C	C	C	C	C
14:30-14:45	C	C	C	C	C	B	C	C	C	C	C
14:45-15:00	C	C	C	C	C	B	C	C	C	C	C
15:00-15:15	C	C	C	C	C	B	C	C	C	C	C
15:15-15:30	C	C	C	C	C	B	C	C	C	C	C
15:30-15:45	C	C	C	C	C	B	C	C	C	C	C
15:45-16:00	C	C	C	C	C	B	C	C	C	C	C
16:00-16:15	C	C	C	C	C	B	C	C	C	C	C
16:15-16:30	C	C	C	C	C	B	C	C	C	C	C
16:30-16:45	B	C	C	C	B	B	B	C	C	C	B
16:45-17:00	B	C	C	C	B	B	B	C	C	C	B
17:00-17:15	B	C	C	C	B	B	B	C	C	C	B
17:15-17:30	B	B	B	C	B	B	B	B	C	C	B
17:30-17:45	B	B	B	C	B	B	B	B	C	C	B
17:45-18:00	B	B	B	B	B	B	B	B	B	B	B
18:00-18:15	B	B	B	B	B	B	B	B	B	B	B
18:15-18:30	B	B	B	B	B	B	B	B	B	B	B
18:30-18:45	B	B	B	B	B	B	B	B	B	B	B
18:45-19:00	B	B	B	B	B	A	B	B	B	B	B
19:00-19:15	B	B	B	B	B	A	B	B	B	B	B
19:15-19:30	A	B	B	B	A	A	A	B	B	B	A
19:30-19:45	A	B	A	B	A	A	A	B	B	B	A
19:45-20:00	A	B	A	B	A	A	A	B	B	B	A
20:00-20:15	A	B	A	B	A	A	A	B	A	B	A
20:15-20:30	A	B	A	B	A	A	A	B	A	B	A
20:30-20:45	A	B	A	B	A	A	A	B	A	B	A
20:45-21:00	A	B	A	B	A	A	A	B	A	B	A
21:00-21:15	A	B	A	B	A	A	A	B	A	B	A
21:15-21:30	A	B	A	B	A	A	A	B	A	B	A
21:30-21:45	A	B	A	B	A	A	A	B	A	B	A
21:45-22:00	A	B	A	B	A	A	A	B	A	B	A
22:00-22:15	A	B	A	B	A	A	A	B	A	B	A
22:15-22:30	A	A	A	A	A	A	A	A	A	A	A
22:30-22:45	A	A	A	A	A	A	A	A	A	A	A
22:45-23:00	A	A	A	A	A	A	A	A	A	A	A
23:00-23:15	A	A	A	A	A	A	A	A	A	A	A
23:15-23:30	A	A	A	A	A	A	A	A	A	A	A
23:30-23:45	A	A	A	A	A	A	A	A	A	A	A
23:45-0:00	A	A	A	A	A	A	A	A	A	A	A
0:00-0:15	A	A	A	A	A	A	A	A	A	A	A
0:15-0:30	A	A	A	A	A	A	A	A	A	A	A
0:30-0:45	A	A	A	A	A	A	A	A	A	A	A
0:45-1:00	A	A	A	A	A	A	A	A	A	A	A
1:00-1:15	A	A	A	A	A	A	A	A	A	A	A
1:15-1:30	A	A	A	A	A	A	A	A	A	A	A
1:30-1:45	A	A	A	A	A	A	A	A	A	A	A
1:45-2:00	A	A	A	A	A	A	A	A	A	A	A
2:00-2:15	A	A	A	A	A	A	A	A	A	A	A
2:15-2:30	A	A	A	A	A	A	A	A	A	A	A
2:30-2:45	A	A	A	A	A	A	A	A	A	A	A
2:45-3:00	A	A	A	A	A	A	A	A	A	A	A
3:00-3:15	A	A	A	A	A	A	A	A	A	A	A
3:15-3:30	A	A	A	A	A	A	A	A	A	A	A
3:30-3:45	A	A	A	A	A	A	A	A	A	A	A
3:45-4:00	A	A	A	A	A	A	A	A	A	A	A
4:00-4:15	A	A	A	A	A	A	A	A	A	A	A
4:15-4:30	A	A	A	A	A	A	A	A	A	A	A
4:30-4:45	A	A	A	A	A	A	A	A	A	A	A
4:45-5:00	A	A	A	A	A	A	A	A	A	A	A
5:00-5:15	A	A	A	A	A	A	A	A	A	A	A
5:15-5:30	A	A	A	A	A	A	A	A	A	A	A
5:30-5:45	A	A	A	A	A	A	A	A	A	A	A
5:45-6:00	A	A	A	A	A	A	A	A	A	A	A
6:00-6:15	A	A	A	A	A	A	A	A	A	A	A
6:15-6:30	A	B	A	B	A	A	A	B	A	B	A
6:30-6:45	A	B	A	B	A	A	A	B	A	B	A
6:45-7:00	A	B	A	B	A	A	A	B	B	B	A
7:00-7:15	A	B	B	B	A	A	A	B	B	B	A
7:15-7:30	B	B	B	B	B	A	B	B	B	B	B
7:30-7:45	B	B	B	B	B	A	B	B	B	B	B
7:45-8:00	B	B	B	B	B	B	B	B	B	B	B
8:00-8:15	B	B	B	B	B	B	B	B	B	B	B
8:15-8:30	B	B	B	B	B	B	B	B	B	B	B
8:30-8:45	B	B	B	B	B	B	B	B	B	B	B
8:45-9:00	B	B	B	B	B	B	B	B	B	B	B
9:00-9:15	B	B	B	B	B	B	B	B	B	B	B
9:15-9:30	B	B	B	B	B	B	B	B	B	B	B
9:30-9:45	B	B	B	B	B	B	B	B	B	B	B
9:45-10:00	B	B	B	B	B	B	B	C	B	B	B

## Facility Contours (Cont.) - Density Based LOS

WZ Scenario 1- WZ 1

Analysis Period	1	2	3	4	5	6	7	8	9	10	11
10:00-10:15	B	B	B	C	B	B	B	B	C	C	B
10:15-10:30	B	B	B	C	B	B	B	B	C	C	B
10:30-10:45	B	B	B	C	B	B	B	B	C	C	B
10:45-11:00	B	B	B	C	B	B	B	B	C	C	B
11:00-11:15	B	B	B	C	B	B	B	B	C	C	B
11:15-11:30	B	B	B	C	B	B	B	B	C	C	B
11:30-11:45	B	B	B	C	B	B	B	B	C	C	B
11:45-12:00	B	C	B	C	B	B	B	C	C	C	B
12:00-12:15	B	C	B	C	B	B	B	C	C	C	B
12:15-12:30	B	C	C	C	B	B	B	C	C	C	B
12:30-12:45	B	C	C	C	B	B	B	C	C	C	B
12:45-13:00	B	C	C	C	B	B	C	C	C	C	B
13:00-13:15	C	C	C	C	C	B	C	C	C	C	C
13:15-13:30	C	C	C	C	C	B	C	C	C	C	C
13:30-13:45	C	C	C	C	C	B	C	C	C	C	C
13:45-14:00	C	C	C	C	C	B	C	C	C	C	C
14:00-14:15	C	C	C	C	C	B	C	C	C	C	C
14:15-14:30	C	C	C	C	C	B	C	C	C	C	C
14:30-14:45	C	C	C	C	C	B	C	C	C	C	C
14:45-15:00	C	C	C	C	C	B	C	C	C	C	C
15:00-15:15	C	C	C	C	C	B	C	C	C	C	C
15:15-15:30	C	C	C	C	C	B	C	C	C	C	C
15:30-15:45	C	C	C	C	C	B	C	C	C	C	C
15:45-16:00	C	C	C	C	C	B	C	C	C	C	C
16:00-16:15	C	C	C	C	C	B	C	C	C	C	C
16:15-16:30	C	C	C	C	C	B	C	C	C	C	C
16:30-16:45	B	C	C	C	B	B	C	C	C	C	B
16:45-17:00	B	C	C	C	B	B	B	C	C	C	B
17:00-17:15	B	C	C	C	B	B	B	C	C	C	B
17:15-17:30	B	B	B	C	B	B	B	B	C	C	B
17:30-17:45	B	B	B	C	B	B	B	B	C	C	B
17:45-18:00	B	B	B	B	B	B	B	B	B	B	B
18:00-18:15	B	B	B	B	B	B	B	B	B	B	B
18:15-18:30	B	B	B	B	B	B	B	B	B	B	B
18:30-18:45	B	B	B	B	B	B	B	B	B	B	B
18:45-19:00	B	B	B	B	B	A	B	B	B	B	B
19:00-19:15	B	B	B	B	B	A	B	B	B	B	B
19:15-19:30	A	B	B	B	A	A	A	B	B	B	A
19:30-19:45	A	B	A	B	A	A	A	B	B	B	A
19:45-20:00	A	B	A	B	A	A	A	B	B	B	A
20:00-20:15	A	B	A	B	A	A	A	B	A	B	A
20:15-20:30	A	B	A	B	A	A	A	B	A	B	A
20:30-20:45	A	B	A	B	A	A	A	B	A	B	A
20:45-21:00	A	B	A	B	A	A	A	B	A	B	A
21:00-21:15	A	B	A	B	A	A	A	B	A	B	A
21:15-21:30	A	B	A	B	A	A	A	B	A	B	A
21:30-21:45	A	B	A	B	A	A	A	B	A	B	A
21:45-22:00	A	B	A	B	A	A	A	B	A	B	A
22:00-22:15	A	B	A	B	A	A	A	B	A	B	A
22:15-22:30	A	A	A	A	A	A	A	A	A	A	A
22:30-22:45	A	A	A	A	A	A	A	A	A	A	A
22:45-23:00	A	A	A	A	A	A	A	A	A	A	A
23:00-23:15	A	A	A	A	A	A	A	A	A	A	A
23:15-23:30	A	A	A	A	A	A	A	A	A	A	A
23:30-23:45	A	A	A	A	A	A	A	A	A	A	A
23:45-0:00	A	A	A	A	A	A	A	A	A	A	A
0:00-0:15	A	A	A	A	A	A	A	A	A	A	A
0:15-0:30	A	A	A	A	A	A	A	A	A	A	A
0:30-0:45	A	A	A	A	A	A	A	A	A	A	A
0:45-1:00	A	A	A	A	A	A	A	A	A	A	A
1:00-1:15	A	A	A	A	A	A	A	A	A	A	A
1:15-1:30	A	A	A	A	A	A	A	A	A	A	A
1:30-1:45	A	A	A	A	A	A	A	A	A	A	A
1:45-2:00	A	A	A	A	A	A	A	A	A	A	A
2:00-2:15	A	A	A	A	A	A	A	A	A	A	A
2:15-2:30	A	A	A	A	A	A	A	A	A	A	A
2:30-2:45	A	A	A	A	A	A	A	A	A	A	A
2:45-3:00	A	A	A	A	A	A	A	A	A	A	A
3:00-3:15	A	A	A	A	A	A	A	A	A	A	A
3:15-3:30	A	A	A	A	A	A	A	A	A	A	A
3:30-3:45	A	A	A	A	A	A	A	A	A	A	A
3:45-4:00	A	A	A	A	A	A	A	A	A	A	A
4:00-4:15	A	A	A	A	A	A	A	A	A	A	A
4:15-4:30	A	A	A	A	A	A	A	A	A	A	A
4:30-4:45	A	A	A	A	A	A	A	A	A	A	A
4:45-5:00	A	A	A	A	A	A	A	A	A	A	A
5:00-5:15	A	A	A	A	A	A	A	A	A	A	A
5:15-5:30	A	A	A	A	A	A	A	A	A	A	A
5:30-5:45	A	A	A	A	A	A	A	A	A	A	A
5:45-6:00	A	A	A	A	A	A	A	A	A	A	A
6:00-6:15	A	A	A	A	A	A	A	A	A	A	A
6:15-6:30	A	B	A	B	A	A	A	B	A	B	A
6:30-6:45	A	B	A	B	A	A	A	B	A	B	A
6:45-7:00	A	B	A	B	A	A	A	B	B	B	A
7:00-7:15	A	B	B	B	A	A	A	B	B	B	A
7:15-7:30	B	B	B	B	B	A	B	B	B	B	B
7:30-7:45	B	B	B	B	B	A	B	B	B	B	B
7:45-8:00	B	B	B	B	B	B	B	B	B	B	B
8:00-8:15	B	B	B	B	B	B	B	B	B	B	B
8:15-8:30	B	B	B	B	B	B	B	B	B	B	B
8:30-8:45	B	B	B	B	B	B	B	B	B	B	B
8:45-9:00	B	B	B	B	B	B	B	B	B	B	B
9:00-9:15	B	B	B	B	B	B	B	B	B	B	B
9:15-9:30	B	B	B	B	B	B	B	B	B	B	B
9:30-9:45	B	B	B	B	B	B	B	B	B	B	B
9:45-10:00	B	B	B	B	B	B	B	C	B	B	B

## Facility Contours (Cont.) - Density Based LOS

### WZ Scenario 2- WZ 2

Analysis Period	1	2	3	4	5	6	7	8	9	10	11
10:00-10:15	B	B	B	C	B	B	D	B	C	C	B
10:15-10:30	B	B	B	C	B	B	D	B	C	C	B
10:30-10:45	B	B	B	C	B	B	D	B	C	C	B
10:45-11:00	B	B	B	C	B	B	D	B	C	C	B
11:00-11:15	B	B	B	C	B	B	D	B	C	C	B
11:15-11:30	B	B	B	C	B	B	D	B	C	C	B
11:30-11:45	B	B	B	C	B	B	D	B	C	C	B
11:45-12:00	B	C	B	C	B	B	D	C	C	C	B
12:00-12:15	B	C	B	C	B	B	D	C	C	C	B
12:15-12:30	B	C	C	C	B	B	D	C	C	C	B
12:30-12:45	B	C	C	C	B	B	D	C	C	C	B
12:45-13:00	B	C	C	C	B	B	D	C	C	C	B
13:00-13:15	C	C	C	C	B	B	D	C	C	C	C
13:15-13:30	C	C	C	C	C	B	D	C	C	C	C
13:30-13:45	C	C	C	C	C	B	E	C	C	C	C
13:45-14:00	C	C	C	C	C	B	E	C	C	C	C
14:00-14:15	C	C	C	C	C	B	E	C	C	C	C
14:15-14:30	C	C	C	C	C	B	E	C	C	C	C
14:30-14:45	C	C	C	C	C	B	E	C	C	C	C
14:45-15:00	C	C	C	C	C	B	E	C	C	C	C
15:00-15:15	C	C	C	C	C	B	E	C	C	C	C
15:15-15:30	C	C	C	C	C	B	E	C	C	C	C
15:30-15:45	C	C	C	C	C	B	E	C	C	C	C
15:45-16:00	C	C	C	C	C	B	E	C	C	C	C
16:00-16:15	C	C	C	C	C	B	E	C	C	C	C
16:15-16:30	C	C	C	C	C	B	D	C	C	C	C
16:30-16:45	B	C	C	C	B	B	D	C	C	C	B
16:45-17:00	B	C	C	C	B	B	D	C	C	C	B
17:00-17:15	B	C	C	C	B	B	D	C	C	C	B
17:15-17:30	B	B	B	C	B	B	D	B	C	C	B
17:30-17:45	B	B	B	C	B	B	D	B	C	C	B
17:45-18:00	B	B	B	B	B	B	C	B	B	B	B
18:00-18:15	B	B	B	B	B	B	C	B	B	B	B
18:15-18:30	B	B	B	B	B	B	C	B	B	B	B
18:30-18:45	B	B	B	B	B	B	C	B	B	B	B
18:45-19:00	B	B	B	B	B	A	C	B	B	B	B
19:00-19:15	B	B	B	B	B	A	B	B	B	B	B
19:15-19:30	A	B	B	B	A	A	B	B	B	B	A
19:30-19:45	A	B	A	B	A	A	B	B	B	B	A
19:45-20:00	A	B	A	B	A	A	B	B	B	B	A
20:00-20:15	A	B	A	B	A	A	B	B	A	B	A
20:15-20:30	A	B	A	B	A	A	B	B	A	B	A
20:30-20:45	A	B	A	B	A	A	B	B	A	B	A
20:45-21:00	A	B	A	B	A	A	B	B	A	B	A
21:00-21:15	A	B	A	B	A	A	B	B	A	B	A
21:15-21:30	A	B	A	B	A	A	B	B	A	B	A
21:30-21:45	A	B	A	B	A	A	B	B	A	B	A
21:45-22:00	A	B	A	B	A	A	B	B	A	B	A
22:00-22:15	A	B	A	B	A	A	B	B	A	B	A
22:15-22:30	A	A	A	A	A	A	B	A	A	A	A
22:30-22:45	A	A	A	A	A	A	A	A	A	A	A
22:45-23:00	A	A	A	A	A	A	A	A	A	A	A
23:00-23:15	A	A	A	A	A	A	A	A	A	A	A
23:15-23:30	A	A	A	A	A	A	A	A	A	A	A
23:30-23:45	A	A	A	A	A	A	A	A	A	A	A
23:45-0:00	A	A	A	A	A	A	A	A	A	A	A
0:00-0:15	A	A	A	A	A	A	A	A	A	A	A
0:15-0:30	A	A	A	A	A	A	A	A	A	A	A
0:30-0:45	A	A	A	A	A	A	A	A	A	A	A
0:45-1:00	A	A	A	A	A	A	A	A	A	A	A
1:00-1:15	A	A	A	A	A	A	A	A	A	A	A
1:15-1:30	A	A	A	A	A	A	A	A	A	A	A
1:30-1:45	A	A	A	A	A	A	A	A	A	A	A
1:45-2:00	A	A	A	A	A	A	A	A	A	A	A
2:00-2:15	A	A	A	A	A	A	A	A	A	A	A
2:15-2:30	A	A	A	A	A	A	A	A	A	A	A
2:30-2:45	A	A	A	A	A	A	A	A	A	A	A
2:45-3:00	A	A	A	A	A	A	A	A	A	A	A
3:00-3:15	A	A	A	A	A	A	A	A	A	A	A
3:15-3:30	A	A	A	A	A	A	A	A	A	A	A
3:30-3:45	A	A	A	A	A	A	A	A	A	A	A
3:45-4:00	A	A	A	A	A	A	A	A	A	A	A
4:00-4:15	A	A	A	A	A	A	A	A	A	A	A
4:15-4:30	A	A	A	A	A	A	A	A	A	A	A
4:30-4:45	A	A	A	A	A	A	A	A	A	A	A
4:45-5:00	A	A	A	A	A	A	A	A	A	A	A
5:00-5:15	A	A	A	A	A	A	A	A	A	A	A
5:15-5:30	A	A	A	A	A	A	A	A	A	A	A
5:30-5:45	A	A	A	A	A	A	A	A	A	A	A
5:45-6:00	A	A	A	A	A	A	A	A	A	A	A
6:00-6:15	A	A	A	A	A	A	B	A	A	A	A
6:15-6:30	A	B	A	B	A	A	B	B	A	B	A
6:30-6:45	A	B	A	B	A	A	B	B	A	B	A
6:45-7:00	A	B	A	B	A	A	B	B	B	B	A
7:00-7:15	A	B	B	B	A	A	B	B	B	B	A
7:15-7:30	B	B	B	B	B	A	B	B	B	B	B
7:30-7:45	B	B	B	B	B	A	C	B	B	B	B
7:45-8:00	B	B	B	B	B	B	C	B	B	B	B
8:00-8:15	B	B	B	B	B	B	C	B	B	B	B
8:15-8:30	B	B	B	B	B	B	C	B	B	B	B
8:30-8:45	B	B	B	B	B	B	C	B	B	B	B
8:45-9:00	B	B	B	B	B	B	C	B	B	B	B
9:00-9:15	B	B	B	B	B	B	C	B	B	B	B
9:15-9:30	B	B	B	B	B	B	C	B	B	B	B
9:30-9:45	B	B	B	B	B	B	C	B	B	B	B
9:45-10:00	B	B	B	B	B	B	D	B	C	B	B

## Facility Contours (Cont.) - Density Based LOS

### WZ Scenario 3- WZ 3

Analysis Period	1	2	3	4	5	6	7	8	9	10	11
10:00-10:15	B	B	B	C	B	B	B	B	C	C	B
10:15-10:30	B	B	B	C	B	B	B	B	C	C	B
10:30-10:45	B	B	B	C	B	B	B	B	C	C	B
10:45-11:00	B	B	B	C	B	B	B	B	C	C	B
11:00-11:15	B	B	B	C	B	B	B	B	C	C	B
11:15-11:30	B	B	B	C	B	B	B	B	C	C	B
11:30-11:45	B	B	B	C	B	B	B	B	C	C	B
11:45-12:00	B	C	B	C	B	B	B	C	C	C	B
12:00-12:15	B	C	B	C	B	B	B	C	C	C	B
12:15-12:30	B	C	C	C	B	B	B	C	C	C	B
12:30-12:45	B	C	C	C	B	B	B	C	C	C	B
12:45-13:00	B	C	C	C	B	B	B	C	C	C	B
13:00-13:15	C	C	C	C	C	B	C	C	C	C	C
13:15-13:30	C	C	C	C	C	B	C	C	C	C	C
13:30-13:45	C	C	C	C	C	B	C	C	C	C	C
13:45-14:00	C	C	C	C	C	B	C	C	C	C	C
14:00-14:15	C	C	C	C	C	B	C	C	C	C	C
14:15-14:30	C	C	C	C	C	B	C	C	C	C	C
14:30-14:45	C	C	C	C	C	B	C	C	C	C	C
14:45-15:00	C	C	C	C	C	B	C	C	C	C	C
15:00-15:15	C	C	C	C	C	B	C	C	C	C	C
15:15-15:30	C	C	C	C	C	B	C	C	C	C	C
15:30-15:45	C	C	C	C	C	B	C	C	C	C	C
15:45-16:00	C	C	C	C	C	B	C	C	C	C	C
16:00-16:15	C	C	C	C	C	B	C	C	C	C	C
16:15-16:30	C	C	C	C	C	B	C	C	C	C	C
16:30-16:45	B	C	C	C	B	B	B	C	C	C	B
16:45-17:00	B	C	C	C	B	B	B	C	C	C	B
17:00-17:15	B	C	C	C	B	B	B	C	C	C	B
17:15-17:30	B	B	B	C	B	B	B	B	C	C	B
17:30-17:45	B	B	B	C	B	B	B	B	C	C	B
17:45-18:00	B	B	B	B	B	B	B	B	B	B	B
18:00-18:15	B	B	B	B	B	F	D	B	A	B	A
18:15-18:30	B	B	B	B	F	F	D	B	A	B	A
18:30-18:45	B	B	C	F	F	F	D	B	A	B	A
18:45-19:00	B	F	F	F	F	F	D	B	A	B	A
19:00-19:15	F	F	F	F	F	F	E	D	E	E	E
19:15-19:30	A	B	B	B	B	A	B	B	B	B	B
19:30-19:45	A	B	A	B	A	A	A	B	B	B	A
19:45-20:00	A	B	A	B	A	A	A	B	B	B	A
20:00-20:15	A	B	A	B	A	A	A	B	A	B	A
20:15-20:30	A	B	A	B	A	A	A	B	A	B	A
20:30-20:45	A	B	A	B	A	A	A	B	A	B	A
20:45-21:00	A	B	A	B	A	A	A	B	A	B	A
21:00-21:15	A	B	A	B	A	A	A	B	A	B	A
21:15-21:30	A	B	A	B	A	A	A	B	A	B	A
21:30-21:45	A	B	A	B	A	A	A	B	A	B	A
21:45-22:00	A	B	A	B	A	A	A	B	A	B	A
22:00-22:15	A	B	A	B	A	A	A	B	A	B	A
22:15-22:30	A	A	A	A	A	A	A	A	A	A	A
22:30-22:45	A	A	A	A	A	A	A	A	A	A	A
22:45-23:00	A	A	A	A	A	A	A	A	A	A	A
23:00-23:15	A	A	A	A	A	A	A	A	A	A	A
23:15-23:30	A	A	A	A	A	A	A	A	A	A	A
23:30-23:45	A	A	A	A	A	A	A	A	A	A	A
23:45-0:00	A	A	A	A	A	A	A	A	A	A	A
0:00-0:15	A	A	A	A	A	A	A	A	A	A	A
0:15-0:30	A	A	A	A	A	A	A	A	A	A	A
0:30-0:45	A	A	A	A	A	A	A	A	A	A	A
0:45-1:00	A	A	A	A	A	A	A	A	A	A	A
1:00-1:15	A	A	A	A	A	A	A	A	A	A	A
1:15-1:30	A	A	A	A	A	A	A	A	A	A	A
1:30-1:45	A	A	A	A	A	A	A	A	A	A	A
1:45-2:00	A	A	A	A	A	A	A	A	A	A	A
2:00-2:15	A	A	A	A	A	A	A	A	A	A	A
2:15-2:30	A	A	A	A	A	A	A	A	A	A	A
2:30-2:45	A	A	A	A	A	A	A	A	A	A	A
2:45-3:00	A	A	A	A	A	A	A	A	A	A	A
3:00-3:15	A	A	A	A	A	A	A	A	A	A	A
3:15-3:30	A	A	A	A	A	A	A	A	A	A	A
3:30-3:45	A	A	A	A	A	A	A	A	A	A	A
3:45-4:00	A	A	A	A	A	A	A	A	A	A	A
4:00-4:15	A	A	A	A	A	A	A	A	A	A	A
4:15-4:30	A	A	A	A	A	A	A	A	A	A	A
4:30-4:45	A	A	A	A	A	A	A	A	A	A	A
4:45-5:00	A	A	A	A	A	A	A	A	A	A	A
5:00-5:15	A	A	A	A	A	A	A	A	A	A	A
5:15-5:30	A	A	A	A	A	A	A	A	A	A	A
5:30-5:45	A	A	A	A	A	A	A	A	A	A	A
5:45-6:00	A	A	A	A	A	A	A	A	A	A	A
6:00-6:15	A	A	A	A	A	A	A	A	A	A	A
6:15-6:30	A	B	A	B	A	A	A	B	A	B	A
6:30-6:45	A	B	A	B	A	A	A	B	A	B	A
6:45-7:00	A	B	A	B	A	A	A	B	B	B	A
7:00-7:15	A	B	B	B	A	A	A	B	B	B	A
7:15-7:30	B	B	B	B	B	A	B	B	B	B	B
7:30-7:45	B	B	B	B	B	A	B	B	B	B	B
7:45-8:00	B	B	B	B	B	B	B	B	B	B	B
8:00-8:15	B	B	B	B	B	B	B	B	B	B	B
8:15-8:30	B	B	B	B	B	B	B	B	B	B	B
8:30-8:45	B	B	B	B	B	B	B	B	B	B	B
8:45-9:00	B	B	B	B	B	B	B	B	B	B	B
9:00-9:15	B	B	B	B	B	B	B	B	B	B	B
9:15-9:30	B	B	B	B	B	B	B	B	B	B	B
9:30-9:45	B	B	B	B	B	B	B	B	B	B	B
9:45-10:00	B	B	B	B	B	B	B	C	B	B	B

## Input Summary

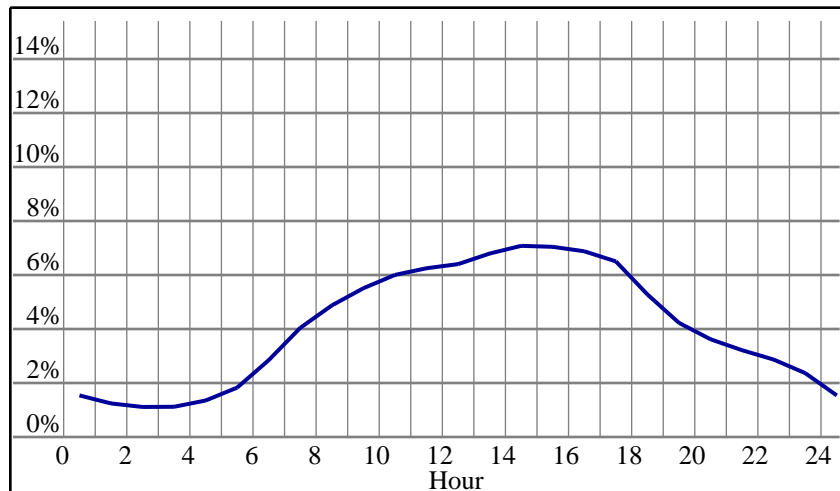
### Base Scenario - New Project

**Study Period:** 10:00am - 10:00am

Global Property	Value
Jam Density	190.00
Capacity Drop	5.00%
Future	Val

AADT Input Parameter	Value
Bidirectional AADT (vpd)	110,000
Directional Factor	0.50
Facility Wide Growth Factor	1.00

#### AADT Distribution: Unimodal - Average

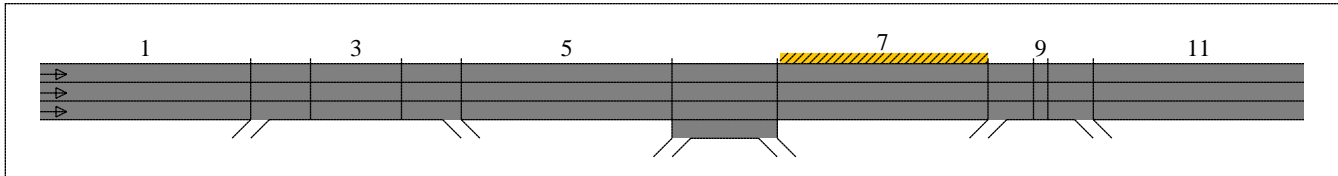


Hour	%	Hour	%
0-1	1.54	12-13	6.40
1-2	1.24	13-14	6.79
2-3	1.11	14-15	7.08
3-4	1.12	15-16	7.04
4-5	1.35	16-17	6.88
5-6	1.83	17-18	6.50
6-7	2.85	18-19	5.28
7-8	4.04	19-20	4.23
8-9	4.87	20-21	3.62
9-10	5.51	21-22	3.21
10-11	6.00	22-23	2.87
11-12	6.25	23-24	2.37

#### Segment Daily Input Values:

#	Type	L(ft)	NL	On AADT	Off AADT
1	B	5,280	3	-	-
2	ONR	1,500	3	10,000	-
3	B	2,280	3	-	-
4	OFR	1,500	3	-	10,000
5	B	5,280	3	-	-
6	W	2,640	4	10,000	10,000
7	B	5,280	3	-	-
8	ONR	1,140	3	10,000	-
9	R	360	3	-	-
10	OFR	1,140	3	-	10,000
11	B	5,280	3	-	-

## WZ Scenario 1 - WZ 1



**Active Time Period:** 10:00am - 10:00am

**Area Type:** Urban

**Lateral Distance(ft):** 2.0

**Barrier Type:** Concrete

**Work Zone Speed Limit:** 55

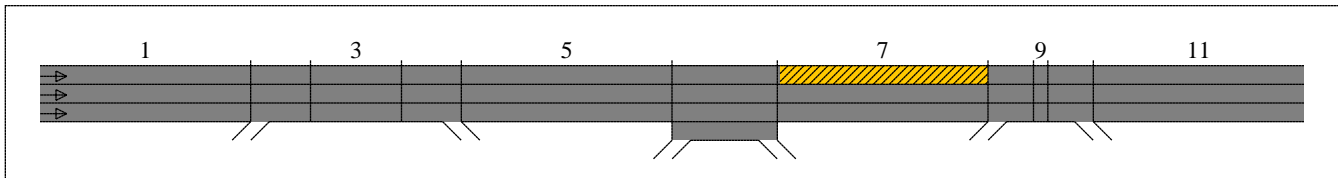
Performance Measure	Base Scenario	WZ Scenario 1	Comparison
Name	New Project	WZ 1	-
Average Travel Time (min)	5.27	5.27	0.00
VMTD (veh-miles / interval)	335,012	335,012	0
VMTV (veh-miles / interval)	335,012	335,012	0
PMTD (p-miles / interval)	335,012	335,012	0
PMTV (p-miles / interval)	335,012	335,012	0
VHT (travel / interval (hrs))	4,907	4,910	3
VHD (delay / interval (hrs))	121	124	3
Space Mean Speed (mph)	68.3	68.2	0.0
Reported Density (pc/mi/ln)	11.8	11.8	0.0
Max D/C	0.59	0.60	0.00
Max V/C	0.59	0.60	0.00
User Cost (\$)	6,173.04	6,311.96	138.93
Max Hourly User Cost (\$)	552.55	584.00	-

### Work Zone Parameters in Active Segments:

	Type/Severity	Computed Capacity	WZ Speed Limit	Computed FFS
Segment 7	Shoulder closure	2168	55	70

Hour	User Cost (\$)	Hour	User Cost (\$)
10:00-11:00	396.38	22:00-23:00	125.14
11:00-12:00	423.49	23:00-0:00	90.83
12:00-13:00	462.29	0:00-1:00	60.11
13:00-14:00	538.55	1:00-2:00	49.28
14:00-15:00	584.00	2:00-3:00	45.83
15:00-16:00	559.31	3:00-4:00	49.92
16:00-17:00	499.88	4:00-5:00	64.95
17:00-18:00	393.99	5:00-6:00	99.27
18:00-19:00	279.97	6:00-7:00	163.81
19:00-20:00	211.32	7:00-8:00	237.95
20:00-21:00	174.43	8:00-9:00	299.01
21:00-22:00	149.56	9:00-10:00	352.69

## WZ Scenario 2 - WZ 2



**Active Time Period:** 10:00am - 10:00am

**Area Type:** Urban

**Lateral Distance(ft):** 2.0

**Barrier Type:** Concrete

**Work Zone Speed Limit:** 55

Performance Measure	Base Scenario	WZ Scenario 2	Comparison
Name	New Project	WZ 2	-
Average Travel Time (min)	5.27	5.38	0.11
VMTD (veh-miles / interval)	335,012	335,012	0
VMTV (veh-miles / interval)	335,012	335,012	0
PMTD (p-miles / interval)	335,012	335,012	0
PMTV (p-miles / interval)	335,012	335,012	0
VHT (travel / interval (hrs))	4,907	5,009	102
VHD (delay / interval (hrs))	121	223	102
Space Mean Speed (mph)	68.3	66.9	-1.4
Reported Density (pc/mi/ln)	11.8	12.8	0.9
Max D/C	0.59	0.93	0.34
Max V/C	0.59	0.93	0.34
User Cost (\$)	6,173.04	11,341.82	5,168.79
Max Hourly User Cost (\$)	552.55	1,354.84	-

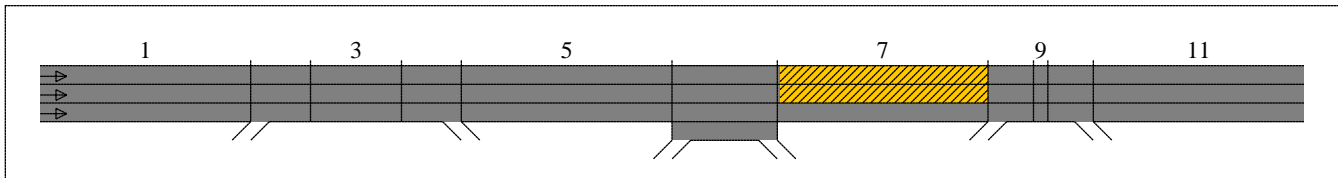
### Work Zone Parameters in Active Segments:

	Type/Severity	Computed Capacity	WZ Speed Limit	Computed FFS
Segment 7	1 lane closure	2101	55	69

Hour	User Cost (\$)	Hour	User Cost (\$)
10:00-11:00	733.94	22:00-23:00	143.44
11:00-12:00	832.51	23:00-0:00	104.87
12:00-13:00	968.31	0:00-1:00	69.87
13:00-14:00	1,215.43	1:00-2:00	57.43
14:00-15:00	1,354.84	2:00-3:00	53.44
15:00-16:00	1,279.46	3:00-4:00	58.16
16:00-17:00	1,092.61	4:00-5:00	75.41
17:00-18:00	727.58	5:00-6:00	114.39
18:00-19:00	374.50	6:00-7:00	186.36
19:00-20:00	243.02	7:00-8:00	285.98
20:00-21:00	198.12	8:00-9:00	419.35
21:00-22:00	170.62	9:00-10:00	582.19



## WZ Scenario 3 - WZ 3



**Active Time Period:** 18:00pm - 19:00pm

**Area Type:** Urban

**Lateral Distance(ft):** 2.0

**Barrier Type:** Concrete

**Work Zone Speed Limit:** 55

Performance Measure	Base Scenario	WZ Scenario 3	Comparison
Name	New Project	WZ 3	-
Average Travel Time (min)	5.27	6.13	0.87
VMTD (veh-miles / interval)	335,012	335,012	0
VMTV (veh-miles / interval)	335,012	334,983	-30
PMTD (p-miles / interval)	335,012	335,012	0
PMTV (p-miles / interval)	335,012	334,983	-30
VHT (travel / interval (hrs))	4,907	5,720	813
VHD (delay / interval (hrs))	121	935	814
Space Mean Speed (mph)	68.3	58.6	-9.7
Reported Density (pc/mi/ln)	11.8	13.8	2.0
Max D/C	0.59	1.77	1.18
Max V/C	0.59	0.97	0.37
User Cost (\$)	6,173.04	47,605.37	41,432.33
Max Hourly User Cost (\$)	552.55	34,187.04	-

### Work Zone Parameters in Active Segments:

	Type/Severity	Computed Capacity	WZ Speed Limit	Computed FFS
Segment 7	2 lane closure	1736	55	56

Hour	User Cost (\$)	Hour	User Cost (\$)
10:00-11:00	392.59	22:00-23:00	125.14
11:00-12:00	415.09	23:00-0:00	90.83
12:00-13:00	447.19	0:00-1:00	60.11
13:00-14:00	512.72	1:00-2:00	49.28
14:00-15:00	552.55	2:00-3:00	45.83
15:00-16:00	530.86	3:00-4:00	49.92
16:00-17:00	479.25	4:00-5:00	64.95
17:00-18:00	388.91	5:00-6:00	99.27
18:00-19:00	34,187.04	6:00-7:00	163.81
19:00-20:00	7,736.58	7:00-8:00	237.95
20:00-21:00	174.43	8:00-9:00	299.01
21:00-22:00	149.56	9:00-10:00	352.48