

# SINGLE LANE BASIC FREEWAY SEGMENT WORKSHEET

## General Information

Analyst: JP  
 Agency or Company: Florence & Hutcheson  
 Date Performed: 8/31/2011  
 Analysis Time Period: AM

## Site Information

Highway/Dir of Travel I-385 SB  
 From/To I-385 SB - Woodruff  
 Jurisdiction Greenville, SC  
 Analysis Year 2035 Alternate 4A

## Flow Inputs

|                          |           |                          |      |
|--------------------------|-----------|--------------------------|------|
| Volume, V                | 818 veh/h | Peak Hour Factor, PHF    | 0.90 |
| Driver Population, $f_p$ | 1         | %Trucks and Buses, $P_T$ | 18%  |
| General Terrain          | Level     | %RVs, $P_R$              | 0%   |

## LOS and Performance Measures

$$f_{HV} = \frac{1}{1 + P_T(E_T - 1) + P_R(E_R - 1)} = 0.91743$$

$$V_P = \frac{V}{PHF * N * f_{HV} * f_p} = 990.69$$

| LOS | $V_P$ (pc/h/ln) |
|-----|-----------------|
| A   | 600             |
| B   | 990             |
| C   | 1430            |
| D   | 1910            |
| E   | 2250            |

**LOS: C**

\* From Exhibit 23-2 of the 2000 HCM - Maximum Service Flow Rate for a BFS with a FFS of 55mph.