

# SINGLE LANE BASIC FREEWAY SEGMENT WORKSHEET

## General Information

Analyst: JP  
 Agency or Company: Florence & Hutcheson  
 Date Performed: 9/29/2011  
 Analysis Time Period: AM

## Site Information

Highway/Dir of Travel I-85 SB C-D  
 From/To I-85 SB C-D to I-85SB  
 Jurisdiction Greenville, SC  
 Analysis Year 2010 Existing

## Flow Inputs

Volume, V 1369 veh/h  
 Driver Population,  $f_p$  1  
 General Terrain Level

Peak Hour Factor, PHF 0.90  
 %Trucks and Buses,  $P_T$  18%  
 %RVs,  $P_R$  0%

## LOS and Performance Measures

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

$$V_P = \frac{V}{PHF * N * f_{HV} * f_p} = 1658.01$$

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

**LOS: D**

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