

# SINGLE LANE BASIC FREEWAY SEGMENT WORKSHEET

## General Information

Analyst: JP  
 Agency or Company: Florence & Hutcheson  
 Date Performed: 8/24/2011  
 Analysis Time Period: AM

## Site Information

Highway/Dir of Travel I-85 NB C-D  
 From/To Woodruff Exit to Woodruff Loop  
 Jurisdiction Greenville, SC  
 Analysis Year 2035 Alternate 4A

## Flow Inputs

Volume, V 1302 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

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

$$V_P = \frac{V}{PHF * N * f_{HV} * f_p} = 1576.87$$

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.