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### Operational Analysis

Analyst: JP  
Agency or Company: Florence & Hutcheson  
Date Performed: 7/7/2011  
Analysis Time Period: PM  
Freeway/Direction: I-85 SB  
From/To: Pelham Rd to I-385  
Jurisdiction: Greenville, SC  
Analysis Year: 2035  
Description: I-85/I-385 Alternate 4A

### Flow Inputs and Adjustments

Volume, V	9099	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	2528	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fhv	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	2755	pc/h/ln

### Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	60.0	mi/h
Lane width adjustment, FLW	-	mi/h
Lateral clearance adjustment, FLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	60.0	mi/h

### LOS and Performance Measures

Flow rate, vp	2755	pc/h/ln
Free-flow speed, FFS	60.0	mi/h
Average passenger-car speed, S	35.8	mi/h
Number of lanes, N	4	
Density, D	77.0	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.