Highway Safety Manual Analysis Requirements

Carolina Crossroads Phase 3D – I-26/I-126 System Interchange (SCDOT Project P043326)

1. Basic Setup

Documents provided by SCDOT: survey files, existing roadway plans, proposed typical sections, and traffic volumes.

Existing crash data and cost analysis will not be required. Conduct predictive analysis for effects of horizontal alignment changes (if applicable). If proposed design maintains interstate centerline and directional (northbound and southbound) alignments, this analysis will not be required.

IHSDM and ISATe programs are acceptable. Model report outputs shall be reported to no less than four
(4) decimal points for both existing and proposed conditions. Predicted crashes, predicted crash rates, and predicted travel crash rate (or equivalent measures) all shall be reported for existing and proposed conditions.

Existing conditions analysis and proposed alternative analysis shall utilize the same starting and ending points.

Existing conditions analysis and proposed alternative analysis shall utilize a ten (10) year total analysis period for comparison purposes. First year of analysis shall be 2029 with a starting AADT of 45,600 and utilizing a two percent (2%) annual growth rate.

Proposed conditions shall utilize the provided typical sections in the RFP.

2. Deliverables

Memorandum summarizing and comparing the existing conditions with the proposed conditions as indicated above.

Appendices to memorandum with program output sheets.