

Planning and Development Dept. – Permit Application Center

P.O. Box 1119, or 1 Town Square

Ridgeland, SC 29936

Phone: 843-726-7521 Fax: 843-726-7525

www.ridgelandsc.gov



TRAFFIC IMPACT ANALYSIS INSTRUCTIONS

A Traffic Impact Analysis (TIA) is required for any subdivision, major site development plan or Planned Development anticipated to generate more than one hundred (100) new peak hour directional trips. The TIA must be of sufficient scope to allow the Town to evaluate the impact of the proposal and the need for roadway capacity, operation, and safety improvements resulting from the proposed development. Supplemental analysis may be required if there is a significant change in the development plan, site plan, or land use. A TIA is valid as long as the approved site plan or development associated with the TIA is deemed valid.

Pre-application Conference: Contact the Permit Application Center (PAC) (843) 726-7521 to schedule any pre-application meeting with the Development Services staff to discuss procedures, standards and regulations required for the TIA submittal and approval.

Preparer: The TIA must be prepared by a transportation planner/engineer with experience in Traffic Planning/Engineering. The final report that is submitted will be required to be sealed by a registered South Carolina professional engineer with expertise in Traffic Engineering.

Requirements: The TIA will be prepared under the guidance of the Institute of Transportation Engineers' Recommended Practice for Traffic Access and Impact Studies for Site Development, 1991. At a minimum, the TIA will provide the following:

- Estimate of traffic generated as a result of the proposed development
- Evaluation of the site access and internal circulation
- Evaluation of the ability of the existing street system to support the proposed development
- Intersection analyses at the proposed development's street system connection(s) to the existing transportation system. Additional consideration for locations downstream from the proposed development may be required at the Town's discretion.
- If signalization is proposed, a signal warrant study shall be conducted to ensure the traffic signal is needed. In addition, a signal progression analysis shall be conducted which addresses the effect of the proposed signal on the existing roadway, including the effects on existing nearby signals or signal systems. Comparative analyses using a software approved by the Town shall be conducted to analyze existing and proposed conditions.
- An assessment of the improvements needed to the existing street system in order to support the traffic anticipated to be generated by the proposed development
- Analysis Period: The analysis must examine expected traffic conditions one year after the project is expected to be complete, and ten years after the project is expected to be complete.
- Sources of Data: Estimates of vehicle trips shall be calculated based on trip generation rates from the most recent edition of Trip Generation Manual published by the Institute of Traffic Engineers. Trip generation rates that are locally available may be substituted if found by the Development Services Department to be relevant to the development in question.

Report Outline: Results of the evaluation shall be presented in a document which addresses the traffic related issues and impacts of the proposed development. The following document outline identifies subjects to be addressed:

1. Introduction, including Study Purpose and Executive Summary
2. Proposed Development, including Off-site development and On-site development [e.g. proposed use, location, access, zoning,
3. Area Conditions
 - a. Study Area [area of influence; area of significant; traffic impact]
 - b. Study Area Land Use
 - c. Site Accessibility [existing and future roadway system; traffic conditions]
4. Projected Traffic
 - a. Site Traffic [trip generation; trip distribution; trip assignment]
 - b. Through Traffic [projection methods; existing street system background traffic]
 - c. Total Traffic
5. Traffic Analysis
 - a. Site access
 - b. Capacity and LOS
 - c. Safety
 - d. Signals (if any)
 - e. Site circulation/parking
6. Improvements Analysis
7. Recommendations