

SENIOR TRAFFIC ENGINEER

Position Code: 2715

WC Code: 9410

FLSA Status: Exempt

Pay Grade: 358 (\$55,791 to \$87,254)

Location: Public Services

Approval Date: 2010

General Statement of Duties

Performs difficult professional, technical and administrative work participating in the planning, design, and implementation of traffic signal operation plans.

Distinguishing Features of the Class

An employee in this class provides professional engineering services in traffic operations and maintenance. Work involves developing and implementing traffic signal operation plans, preparing technical reports, reviewing Traffic Impact Analyses, overseeing contract traffic engineering studies, providing technical information and operating the closed loop signal systems in the Town. Employee will work closely with DOT to monitor and change the signal timing of the closed loop systems in the Town. The employee represents the Town to a wide variety of citizens, developers, state and federal regulatory officials, etc. Work is supervised by the Engineering Division Manager and is evaluated based on conference and review of assignments.

Duties and Responsibilities

Prepares engineering designs, reports, and estimates for a variety of traffic related projects;

Supervises/operates Computerized Signal System;

Performs and/or directs the collection and analysis of data such as traffic volume, capacity, origin and destination, speed, speed and delay, accident reports, pedestrian counts, and parking counts to prepare engineering reports, work orders, graphs, tables or maps related to traffic and pedestrian safety, highway and intersection capacity, highway design and geometrics, and neighborhood traffic control;

Performs and/or directs studies and surveys to collect data for the preparation of traffic control plans that determine the location and placement of traffic signs, street name signs, pavement markings, traffic control signals, street lights, and other traffic control devices;

Reviews and approves major driveway permits and evaluates traffic safety concerns and administers traffic calming and traffic count program;

Supports Transportation Planner in development of thoroughfare plan and other traffic congestion management plans by providing data and technical support as needed;

Supervises/develops signal timing plans;

Provides technical support to signal technicians with repair and maintenance of traffic signals;

Performs other duties as requested.

Recruitment and Selections Guidelines

Knowledge, Skills and Abilities

Considerable knowledge of the principles and practices of civil engineering as applied to traffic operations and safety;

Ability to plan projects and prepare related designs, estimates, and specifications.

Ability to perform difficult engineering computations;

Ability to establish and maintain effective working relationships with other employees, Town officials, and the general public;

Ability to express ideas clearly and concisely, both in oral and written form;

Ability to prepare complex engineering records and reports;

Ability to make sound judgments.

Physical Requirements

Must be able to perform the physical life functions of reaching, fingering, pushing, pulling, grasping, talking, hearing and repetitive motions.

Must be able to perform light work exerting up to 20 pounds of force occasionally; up to 10 pounds of force frequently and/or constantly.

Must possess visual acuity to produce and review written reports and records including mathematical calculations, operate a computer terminal, analyze data, and to read maps, schematic drawings and plans.

Minimum Education and Experience

Bachelor's Degree in Civil Engineering with major coursework in Traffic Engineering from an accredited college or university and five to seven years of experience of a responsible nature in Traffic Engineering; or an equivalent combination of education and experience.

Special Requirement

Registered Professional Engineer and a valid North Carolina driver's license.