

## **TRAFFIC ENGINEER**

### **DISTINGUISHING FEATURES OF THE CLASS:**

This is a professional engineering position in the Department of Public Works which specializes in improving County vehicular and pedestrian traffic safety conditions on highways. The incumbent supervises a unit responsible for traffic engineering and provides high-level technical assistance to lower ranking engineers. In addition, duties include representing the County as an "expert witness" on accident claims pertaining to highway safety. Work is performed under the general direction of a higher level employee. Supervision is normally exercised over subordinate employees.

### **TYPICAL WORK ACTIVITIES:**

1. Designs and evaluates highway plans for impact on highway safety;
2. Reviews and designs plans for traffic control devices, and traffic safety projects;
3. Develops and implements procedures for inventory, surveillance and evaluation of highway accidents;
4. Proposes methods to reduce accidents;
5. Represents the County as an "expert witness" on accident claims pertaining to highway safety;
6. Directs the preparation of collision diagrams and other accident data for use in development of safety programs;
7. Provides high-level technical assistance to lower level engineers;
8. Provides advice to local government officials in traffic engineering and safety matters;
9. Prepares a variety of reports and studies relative to traffic controls and safety matters;
10. Does related work as required.

### **FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES:**

Thorough knowledge of the principles and practices of traffic engineering; thorough knowledge of the principles of engineering, physics and mathematics as related to highway engineering; thorough knowledge of the practices, theories and procedures of highway engineering, including surveying and related computations; good knowledge of construction materials, methods, standards and tests; good knowledge of applicable codes, laws, rules, regulations and procedures governing civil engineering design and construction; good knowledge of the planning, design, construction and maintenance of highways and related structures; good knowledge of the principles of supervision; ability to train and supervise subordinate staff; ability to prepare finished plans, designs, specifications and narrative reports; ability to plan, schedule, coordinate and evaluate repair, maintenance and construction programs; ability to establish cooperative relationships with subordinates, co-workers, contractors and their staff and other officials; ability to select, from a variety of engineering alternatives, the most effective and cost efficient methods; ability to design construction proposals; ability to gather, analyze and evaluate information from a variety of sources and prepare recommendations and proposals; ability to analyze the condition of roads, structures, equipment, embankments and construction projects and determine maintenance, repair and construction needs; mechanical aptitude; accuracy; physical condition commensurate with the demands of the position.

**TRAFFIC ENGINEER** (Cont'd)

**MINIMUM QUALIFICATIONS:**

- EITHER:       (A)     Graduation from a National Coalition of Engineering Examiners accredited college or university with a Bachelor's degree in Civil Engineering and four (4) years of full-time work experience in traffic engineering;
- OR:            (B)     Graduation from a National Coalition of Engineering Examiners accredited college or university with an Associate's degree in Civil Engineering and six (6) years of experience as described above;
- OR:            (C)     An equivalent combination of training and experience as indicated in (A) and (B) above.

**SPECIAL REQUIREMENT:**

Eligibility for a New York State Motor Vehicle Operator's license at time of application. Possession of license at time of appointment.

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REVISED:   12/29/89  
              04/02/90