

TRAFFIC ENGINEER 1

CLASS DESCRIPTION

General Responsibilities:

This is intermediate-level, professional traffic engineering work involving responsibility for conducting a wide range of traffic studies, data collection activities and designing projects or components of projects. Work on assigned projects requires the exercise of independent technical and professional judgment and is performed under the supervision of a higher level professional engineer. Movement to the this level will be from the Engineer 2 classification and will be based on demonstrated performance at the higher level and completion of the required years of experience. Movement to the Traffic Engineer 2 level will be based on increased employee expertise and responsibility, independence of action, experience in and knowledge of City systems and processes associated with the work, and completion of the required years of experience.

Examples of Duties and Responsibilities:

Determine data required for various types of projects. Set-up and oversee the planning of traffic studies and the collection of data. Analyze data and make recommendations to higher level engineers based on the results of the studies.

Assist in the development of geometric designs for street improvements. Assist in the preparation of plans for the installation or modification of intersection traffic signals or traffic signal systems. Assist in studies of traffic signal operation and traffic signal system effectiveness. Assist in review of transportation planning, zoning, land use and major development studies.

Prepare engineering plans for traffic control improvements. Prepare preliminary technical reports. Assist in preparing material for and participating in public presentations relative to traffic engineering projects.

Perform related work as required.

QUALIFICATIONS

Knowledges, Skills and Abilities:

Knowledge of fundamental traffic engineering principles and practices. Working knowledge of civil engineering survey, design, and construction practices as applied to the construction of transportation and traffic control facilities. Working knowledge of the operation of traffic signal controllers and traffic signal networks. Knowledge of statistics and math necessary to analyze traffic data. Familiarity with computer assisted design processes and techniques. Ability to compile, consolidate, and analyze data. Ability to independently develop traffic engineering design projects. Ability to coordinate the work of lower level personnel. Ability to perform surveying and drafting work. Ability to prepare technical reports and speak at public meetings. Ability to maintain adequate attendance.

