

CITY OF SCOTTS VALLEY CLASS SPECIFICATION

CIVIL ENGINEER (TRAFFIC)

JOB PURPOSE

Under general direction, performs difficult and responsible professional civil and traffic engineering work in the field and office; may act as resident engineer on very large or complex construction projects; may supervise subordinate professional and sub-professional engineering personnel engaged in such work; and performs related duties as required.

EXAMPLES OF DUTIES

The Civil Engineer (Traffic) will perform any of the duties set forth in the Class Specification for Associate Civil Engineer and Civil Engineer. In addition:

Essential Duties:

- Assists with the daily operations and activities including traffic operations, traffic safety, signal maintenance;
- Review and makes recommendations regarding proposed development projects, capital improvement projects;
- Provide traffic engineering technical review for consistency with planning, impacts on transportation and traffic flow, and community needs;
- Conducts analyses involving traffic impacts;
- Reviews and/or approves traffic safety requests which deviate from accepted engineering practices;
- Operates or oversees the City's traffic signal control system, including maintenance and operation that conform to local and State standards and best practices;
- Administers consultant contracts to review or modify traffic control systems and flow controls Performs a variety of traffic engineering studies and projects;
- Prepares annual priority lists for new traffic signals and rehabilitation of traffic control equipment (i.e. detection, signal controllers, etc.);
- Establishes technical criteria and standards of traffic control, capital improvement signal operation and design projects;
- Reviews engineering calculations of other engineers or engineering technicians;
- Able to prepare traffic signal timing and traffic signal coordination timing; familiar with traffic signal coordination programs such as Synchro;
- Performs plan check activities for traffic signal, signing, striping, street lighting, and construction area traffic control plans;
- Provide technical review of construction traffic control plans for contractors working within public right-of-way.

Marginal Duties:

- Performs other related duties as assigned.

EMPLOYMENT STANDARDS

Education, Experience and Licenses: Any combination equivalent to graduation from college or university with a major in Civil Engineering and three years experience in civil engineering involving one or more of the following areas: design, construction inspection, surveying, preliminary project planning, subdivision map/plan review, traffic operations and planning, or other phases of engineering related to public works in a municipality. Must possess a valid certificate of registration as a Civil Engineer issued by the California Board of Registration for Civil and Professional Engineers, a valid certificate as a Traffic Engineer issued by the California State Board of Registration for Professional Engineers is desirable, and a valid California motor vehicle "C" operator's license.

Ability to: Perform the essential functions of this position; must be able to read and interpret highly technical and/or complex documents, write complex reports and simple reports on complex subjects; interpret data and color coded graphs; input information via computer; communicate clearly and effectively in large meetings and over a telephone to technically and non-technically oriented individuals.

Knowledge of: The principles, practices and procedures of civil engineering relating to the design, construction and inspection of streets, storm drains, sanitary sewers and related public improvements and appurtenances; traffic engineering and transportation planning principles, techniques, policies, and procedures; traffic signal control maintenance and operations; methods, materials and techniques used in the traffic and transportation projects; drafting, design, and mapping principles and techniques; surveying methods, principles and practices; assessment district practices; skill in using computer equipment and civil engineering and CAD software; making calculations and determining cost estimates; preparing and writing reports; ability to supervise and train professional and sub-professional engineering personnel; ability to prepare plans, specifications and technical reports; supervise and inspect construction projects and apply engineering policy when determining compliance with specifications; and ability to establish and maintain effective working relationships with City personnel and the public.