

TRAFFIC ENGINEER

This is senior-level traffic engineering work and administrative activities for the Department of Public Works' Transportation Division. This position performs the highest level of traffic engineering work and serves as a key contact for citizens regarding traffic engineering issues.

CLASSIFICATION DISTINCTIONS

The Traffic Engineer requires specialized knowledge in traffic and transportation engineering and requires the use of independent judgment to resolve complex or unique problems. The position provides senior traffic engineering guidance to other engineers within the division.

KEY OR TYPICAL TASKS AND RESPONSIBILITIES

- Conducts a wide range of traffic engineering studies and directs consultant teams in such studies.
- Provides traffic engineering input to capital projects and transportation system issues arising from citizens or the Board of County Commissioners. Responds to citizen requests and ensures appropriate and timely responses to related questions and inquiries.
- Develops or reviews plans for transportation improvements (traffic signals, traffic control features, pedestrian/bicycle pathways, roadway extensions and local circulation plans).
- Utilizes related computer software and programs in analyzing and developing solutions to traffic engineering problems and in the general accomplishment and monitoring of the work.
- Prepares and maintains all related reports, documents, and correspondence. Reviews design plans and specifications for conformance to job requirements.
- Prepares, develops and checks complex specialized contract provisions and design agreements. Conducts pre-bid and pre-construction conferences detailing principle construction features and agreements.
- Coordinates with other sections and departments on issues related to grant and contract administration.
- Directs investigations and develops resolutions of claims and complaints from contractors or property owners. Maintains office records of design, construction and other engineering activities, as required by County, State, and Federal regulations.
- Develops and maintains effective relations with the public. Represents Public Works on various committees; at neighborhood organization and community meetings; public hearings; before governmental bodies and in legal processes.
- Prepares complex technical engineering and administrative reports and develops critical correspondence and comprehensive reports in support of engineering projects and decisions.

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- Participates in the development, implementation and review of ongoing programs and existing methods - assessing job effectiveness and cost efficiencies.
- Participates in the formulation and updating of goals and objectives consistent with the mission of the Department
- Performs other related duties as assigned.

QUALIFICATIONS

- Bachelor's degree in traffic engineering, civil engineering or a closely related field – and – two (2) years of experience in an Engineer III or equivalent position.
- Registration as a professional civil engineer;
- Possession of a valid driver's license upon date of hire.

Knowledge of: principles and practices of traffic engineering, civil engineering and of the physical sciences (hydraulics, mechanics, etc.) involved; urban and rural public sector traffic engineering and traffic signal design; proven project management skills, including engineering, administration and management principles/ practices; application and interpretation of County regulatory codes, state regulatory and legislative requirements, court decisions and Attorney Generals opinions concerning the wide variety of engineering functions; departmental policies and procedures, work standards and codes applicable to the job.

Ability to: establish and maintain effective working relationships with engineering and survey staff, contractors, and the public; accomplish multiple priorities and projects within projected timeframes; adopt approved engineering methods and standards to the planning, design and construction of a variety of public works projects; read and interpret complex plans and specifications and become familiar with engineering standards; perform highly technical research work and to give reliable advice on difficult engineering problems; prepare, draft, interpret and utilize complex engineering plans, maps, specifications and reports, and to maintain orderly, accurate engineering records; perform complex and difficult engineering computations in designing major engineering projects; inspect and provide direction to technicians inspecting the work of contractors on complex engineering projects and to obtain adherence to plans and specifications; coordinate and effectively manage resources dedicated to a number of on-going projects; communicate and express ideas effectively, orally and in writing, including public speaking; give accurate and factual testimony at hearings or trials.

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