

CITY OF DALY CITY
JOB SPECIFICATION
EXEMPT POSITION

TRAFFIC ENGINEER

DEFINITION

Under direction, to plan, design, coordinate and perform a wide variety of responsible professional traffic and civil engineering assignments in the area of public works projects, to supervise subordinate personnel, and to do related work as requested.

EXAMPLES OF DUTIES

Plans, and conducts studies of traffic operations, and designs and makes recommendations for installation, operation, and maintenance of various traffic control devices and street lights. Conducts studies and maintains data of traffic, accidents, street use, origin and destination; transportation enhancements; and land access. Monitors and analyzes traffic flow and associated interconnected or independently operating traffic signals, and makes operational changes to optimize traffic flow. Meets with individual City officials, citizens and/or citizen groups to hear and resolve complaints about traffic problems; upon request, provides information and responds to public inquiries, prepares traffic reports and recommendations. Prepares submittals, reports, and applications for State and Federal funding and grants for capital, street signalization and lighting, and street maintenance projects. Develops short and long range plans for traffic improvements; prepares design plans, construction bid documents, and cost estimates for traffic control systems and various other public works improvements. Serves as a member of the City Traffic Committee.

Reviews and checks submitted plans and computations for conformance to established standards and specifications. Reviews EIR's and proposals. Provides coordination with utility agencies, consultants and other public agencies.

Performs construction inspection and field surveys. Works with others to troubleshoot and resolve traffic control problems in the office and in the field, including traffic models, signal operations and control analysis, equipment malfunction, timing and phasing, and design revision. May act as Lead/Resident Engineer when assigned, and may assume responsibility for a complete engineering function or major phase of a program, including correspondence and complex engineering reports. May be required to occasionally work nights and/or weekends to analyze and change traffic controller timing and phasing, and to attend meetings. May train, supervise, and evaluate work of subordinate professional, para-professional and clerical personnel.

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MINIMUM QUALIFICATIONS

Knowledge of: Modern engineering principles of planning, design, and contract document preparation for streets and highways with special emphasis on traffic routing and control. Principles and practices of civil engineering, including traffic engineering, surveying, street and road design, elements of effective supervision, letter and report writing, and principles of public relations. Office and traffic signal computer software used in the practice of traffic engineering and signal timing, as well as current technical information, standards, applicable laws, and trends and practices in traffic and civil engineering.

Ability to: Perform professional engineering design work of a complex nature, and prepare plans, specifications, and cost estimates for a variety of public works projects, including, but not limited to traffic signals, signal systems, and street lighting.

Apply the fundamental principles of traffic and civil engineering theory to solving technical problems encountered in the design, construction, and field operation of street and signal systems; perform traffic studies and prepare technical reports; initiate compilation of necessary technical information, and to make independent decisions therefrom; maintain clear and concise office records; inspect construction projects, review change orders, read, interpret, investigate, and resolve disputes concerning plans and specifications. Communicate clearly and concisely, both orally and in writing; interact positively and cooperate with co-workers, respond politely to customers, work as a team member, function under demanding time pressure, respond in a positive manner to supervision, and attend work and perform duties on a regular and consistent basis.

Experience: Four (4) years increasingly responsible experience in professional level civil engineering, with a minimum of two (2) of those years in responsible traffic engineering work.

Education: Graduation from an accredited college or university with a B.S. Degree in civil, electrical, or traffic engineering. Supplementary coursework in traffic engineering is desirable.

License: Registration as a Professional Engineer in civil or traffic engineering in the State of California, or possession of a Professional Engineer Registration in another state with the ability to obtain California Registration within six (6) months. Possession of a valid Class C California Driver's License.