

## ENGINEER

### NATURE OF WORK

This is advanced professional engineering work in the investigation, development, construction and maintenance of engineering projects.

Work involves responsibility for assisting in the supervision and coordination of a staff of professional and technical subordinates. Work requires the use of considerable judgment, initiative and professional knowledge and involves responsibility for independently making technical decisions on engineering problems. Supervision is received from a professional or an administrative superior and reviewed through written reports, inspections of work projects and evaluation of work accomplishments. An employee in this position may function as a "Project Engineer".

### EXAMPLES OF WORK PERFORMED

Reviews engineering studies, plans and specifications from outside consultants to ensure quality control standards are followed.

Assists in the update of the Comprehensive Plan.

Develops and implements public information and education programs which may include public presentations; attends public hearings on behalf of the City in order to answer questions regarding transportation and utility projects.

Organizes and prepares special assessments for assigned projects to ensure they are consistent with assessment policies; coordinates the initiation of special assessment districts.

Assists in the preparation and monitoring of various capital and operational budgets; assists in the preparation and administration of project budget to yield on time, and at or under budget projection.

Assists in the management of various transportation improvement projects to ensure safety, efficiency, public involvement, fiscal responsibility and conformance with local, regional and national standards.

Prepares and reviews traffic impact studies and sub-area studies to identify transportation improvements needed for changes in land uses; prepares conceptual plans and cost estimates for negotiation of transportation agreements with developers.

Administers the City's sidewalk program, sight distance standards and temporary traffic control requirements.

Performs hydrologic and hydraulic studies for water, wastewater and storm drainage to determine storm sewer system needs for proposed storm sewer and paving projects.

Prepares ordinances for paving, water and wastewater districts.

Prepares standard specifications for purchase of engineering or construction material or equipment.

Prepares special reports on components of infrastructure problems and solutions and on environmental concerns.

Reviews preliminary and final plats for conformance with Municipal Code design standards and other Engineering requirements.

Develops and implements storm water basin planning and modeling in conformance with City standards.

Prepares applications and provides supporting data for flood plain and environmental permits.

Performs related work as required.

#### DESIRABLE KNOWLEDGE, ABILITIES AND SKILLS

Thorough knowledge of the principles and practices of civil engineering as related to the preparation of plans and specifications for a wide variety of transportation and utility projects.

Thorough knowledge of land and engineering survey systems, methods and techniques.

Thorough knowledge of construction materials, maintenance procedures, and of approved standards of safety as related to structural design and specifications.

Ability to adapt approved engineering methods and standards to the design, construction and maintenance of a variety of transportation and utility projects.

Ability to establish and maintain effective working relationships with other government agencies, citizen committees, the media, public officials, other City departments, co-workers and the general public.

Ability to communicate effectively both orally and in writing.

#### MINIMUM QUALIFICATIONS

Graduation from an accredited four-year college or university with major coursework in engineering and two years of experience in progressively responsible civil engineering work; or any equivalent combination of training and experience that provides the desirable knowledge, abilities and skills.

#### NECESSARY SPECIAL REQUIREMENTS

Registration as a Professional Engineer by the State of Nebraska. If registered in another state, must obtain Nebraska registration within one year of appointment.

Possession of a valid driver's license when operating a vehicle may be necessary to the satisfactory performance of assigned duties for some positions within this classification.