

POSITION DESCRIPTION

Senior Engineering Technician

Department:	Public Works
Division:	Engineering
Grade:	14
FLSA Status:	Non-Exempt
Bargaining Unit:	Austin Employees Associates
Date:	May 2018

General Purpose

Performs complex engineering work in the provision of office and engineering support and field engineering support for environmental, water, sewer, street, and other public works projects and programs ensuring technical competence and compliance with all current codes and criteria; serves as a project manager.

Supervision Received

Works under the general guidance and direction of the Assistant City Engineer and Public Works Director.

Supervision Exercised

May exercise general supervision over temporary or other staff as needed and assigned.

Essential Duties and Responsibilities

Reviews private project development plans for compliance with codes, regulations, and standards, adequacy of applications for permits and compliance with approved plans.

Coordinates and/or undertakes the development or update of the City Transportation Improvement Program (TIP), Comprehensive Sewer Plan, Comprehensive Water Plan, the Capital Improvement Program and other plans involving the municipal infrastructure.

Determines applicable codes, regulations and requirements for assigned projects.

Coordinates the preparation of, or develops, engineering plans and specifications, coordinates required advertising for bids, reviews construction bids and makes necessary recommendations based on lowest and best bids, competency of vendors and consultants and the selection criteria.

Provides project management for the construction of the municipal public works projects. Oversees assigned projects to ensure contractor compliance with specified standards, time and budget parameters for the project.

Coordinates the preparation of, or develops, reviews and updates the sanitary sewer, water, storm drainage, and street system maps, data base and comprehensive plans.

Maintains the engineering library and infrastructure records.

Maintains and updates city subdivision and public works standards. Assures as-built records of projects and documents necessary changes for the operation and maintenance programs.

Responds to public or other inquiries relative to engineering policies and procedures on specific projects and other information. Evaluates issues and options regarding municipal public works and makes recommendations.

Reviews utility permits, street use permits, franchise utility permits, etc.

Maintains regular contact with consulting engineers, construction project engineers, City, County, State and Federal agencies, professional and technical groups and the general public regarding division activities and services.

Assists in the evaluation of transportation and traffic impacts of development proposals, permits, rezones, plats, etc. Prepares traffic, utility and other studies and reports.

Provides intersection signal and channelization design. Develops and maintains a pavement management system.

Peripheral Duties

Coordinates sidewalk inspection, maintenance and enforcement programs.

Monitors inter-governmental actions affecting public works.

Assists in the training of other city personnel in public works design and construction techniques.

Minimum Qualifications

Education and Experience:

- (A) Two years of related technical or college training in drafting, AutoCAD, engineering technology, civil engineering or closely related field; and
- (B) Four years of relevant technical engineering experience; or
- (C) Any equivalent combination of education and experience with similar responsibilities.

Necessary Knowledge, Skills and Abilities:

- (A) Thorough knowledge of civil engineering principles, practices and methods as applicable to a municipal setting; Thorough knowledge of applicable City policies, laws and regulations affecting division activities;

- (B) Considerable skill in arriving at cost estimates on complex projects; skill in operating the listed tools and equipment.
- (C) Ability to communicate effectively, orally and in writing, with employees, consultants, other governmental agency representatives, City officials and the general public; Ability to conduct necessary engineering research and compile comprehensive reports.

Preferred Qualifications

- (A) Graduation from a four-year college or university with a degree in civil engineering or a closely related field; or

Special Requirements

- (A) Must possess a valid State driver's license or have the ability to obtain one prior to employment;
- (B) Must possess or have the ability to obtain the following MnDOT Technical Certification Programs: Aggregate Grading and Base, Bituminous Street, Bituminous Plant, Concrete Field, Concrete Plant and Signal Light.
- (C) Must be physically capable of moving about on construction work sites and under adverse field conditions.

Tools and Equipment Used

Personal computer, including word processing, spreadsheet, and data base and computer-aided-design software; standard drafting tools; surveying equipment including level, theodolite and electronic distance measuring devices; motor vehicle; phone; mobile radio.

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Work is performed mostly in office settings. Some outdoor work is required in the inspection of various land use developments, construction sites, or public works facilities. Hand-eye coordination is necessary to operate drafting instruments, computers and various pieces of office equipment.

While performing the duties of this job, the employee is occasionally required to stand; walk; use hands to finger, handle, feel or operate objects, tools, or controls; and reach with hands and arms. The employee is occasionally required to see and observe; sit; climb or balance; stoop, kneel, crouch, or crawl; talk or hear and smell.

The employee must occasionally lift and/or move up to 40 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception and the ability to adjust focus.

Work Environment

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee occasionally works in outside weather conditions. The employee occasionally works near moving mechanical parts and in high, precarious places and is occasionally exposed to wet and/or humid conditions, fumes or airborne particles, toxic or caustic chemicals, risk of electrical shock and vibration.

The noise level in the work environment is usually quiet to moderate.

The duties listed above are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to the position.

The job description does not constitute an employment agreement between the employer and employee and is subject to change by the employer as the needs of the employer and requirements of the job change.