

Title: Survey Mapping Technician II
PG: 36
Status: Civil Service
Position Reports to: Professional Surveyor and Mapper
Department: Public Works

Class Code: 3044
Date: 09/08

GENERAL DESCRIPTION OF CLASS:

This is highly skilled technical work in the fields of civil engineering and land surveying involving the use of state of the art surveying methods, procedures, and/or instruments. Work may be performed independently or involve supervising a limited number of technical subordinates performing routine technical tasks. Work is assigned by a technical supervisor who provides work instructions and assistance on unusual or complex problems. Work is reviewed for adherence to established technical standards and results obtained.

ESSENTIAL FUNCTIONS:

1. Operates electronic total stations, engineers level, global positioning receiver, and other equipment and instruments involved in performing surveys.
2. Supervises and assigns work duties to subordinates.
3. Instructs new employees and subordinate technicians in the principles and practices of surveying.
4. Prepares notes for surveys in electronic format using hand-held data collector.
5. Interprets and plots survey notes using Computer Aided Design and Drafting (CADD) and similar software.
6. Performs complex computations associated with surveys.
7. Ability to read and interpret a variety of maps, plans and specifications utilized in construction surveying.
8. Ability to establish grade and alignment controls from construction plans for field layout work.

ADDITIONAL RESPONSIBILITIES:

1. Serves as Party Chief in absence of higher level technician.
2. Performs related work as required.

KNOWLEDGE, SKILLS & ABILITIES:

1. Considerable knowledge of basic mathematics used in surveying - such as algebra, trigonometry and plane geometry.
2. Considerable knowledge of the principles and techniques of field surveying and computer assisted drafting.
3. Knowledge of the conventional and electronic instruments such as total station and global positioning system receiver, as well as other equipment and materials used in surveying.
4. Knowledge of construction methods, procedures and equipment used in construction of public works construction projects.
5. Knowledge of microcomputer systems and the ability to operate computer programs.
6. Knowledge of codes, laws and regulations for traffic control and safety procedures.
7. Skill in the use, care and adjustment of the instruments and equipment used in surveying.
8. Ability to read and interpret plans, maps, construction plans and specifications.
9. Ability to perceive physical and spatial relationships.
10. Ability to establish and maintain effective working relationships with associates, employees of private organizations and the general public.
11. Ability to communicate effectively, both verbally and in writing.
12. Ability to perform manual tasks involving physical strength and continuous outdoor activity.

WORKING ENVIRONMENT/CONDITIONS:

Requires sedentary work that involves walking or standing some of the time, exerting up to 10 pounds of force on a recurring basis and up to 40 pounds occasionally with routine keyboard

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operations, operation of City general purpose vehicles (automobile or pick up truck), some job duties may be performed in an office environment while other duties may require field work at various outdoor job sites.

The job risks exposure to no significant environmental hazards, and occasional exposure to extreme noise levels, dusts pollen, bright or dim lights, extreme cold or heat, wet or humid conditions, fumes, noxious odors.

The job requires normal visual acuity, and field of vision, hearing, speaking, color perception, sense of smell, depth perception, and texture perception.

QUALIFICATIONS (EDUCATION, TRAINING AND EXPERIENCE):

1. High school diploma or its equivalent.
2. Three (3) years of surveying experience including two (2) years experience in the use of level, transit, theodolite, total station, data collector and/or other equipment associated with surveying.
3. An equivalent combination of education and experience that is determined to be directly related to the foregoing requirements may be substituted.

SPECIAL REQUIREMENTS:

1. Must possess and maintain a valid state of Florida driver's license.
2. May be required to work overtime, or alternate hours, as necessary for the efficient operation of the department. Position may be designated as Mission Critical by Department Director.