Survey Technician

CLASS TITLE	CLASS CODE	SALARY GROUP	SALARY RANGE
SURVEY TECHNICIAN I	2106	A18	$45,521 - $71,055
SURVEY TECHNICIAN II	2107	A20	$51,158 - $81,351

GENERAL DESCRIPTION

Performs surveying and mapping work involving measuring and recording data on land, buildings or construction projects; processing field survey data; and creating plans using computer aided design software.

DISTINGUISHING CHARACTERISTICS

The Survey Technician job classification series is intended primarily for those employees who are not yet a Registered Professional Land Surveyor. Employees typically perform general surveying duties including performing necessary calculations to obtain field survey data and/or assisting with specialized surveying work under the guidance of a Registered Professional Land Surveyor.

EXAMPLES OF WORK PERFORMED

Imports and stores surveying data collected in the field and assists licensed surveyors with the processing of field surveying data, analysis of the data, and surveying related computations.

Conducts records research for evaluation and processing of miscellaneous easements or other leases.

Conducts records research and analysis for reviewing submitted surveys.

Visits sites to record survey measurements and other descriptive data.

Measures distances and assists in conducting trigonometric and conventional leveling surveys to determine elevations.

Operates surveying instruments, such as electronic distance-measuring equipment to collect survey data.

Prepares working sketches utilizing computer aided design software or other computer programs, compiles information from the archive records and other related sources for surveying projects, and makes recommendations for efficient operation of field surveys.

Searches for, locates and recovers existing survey markers, including stones, iron rods, and pipes, and sets out stakes and other markers to mark locations.

Sets up safety equipment and traffic control devices as required; flags traffic as required; assists in moving equipment, barricades, and traffic control devices.

Performs related work as assigned.

DESCRIPTION OF LEVELS

Examples of work and descriptions are meant to progress through the levels. For example, an employee at level II may also perform work listed within the previous level. Factors that may distinguish between levels include the scope of responsibility, the types of surveying and mapping work performed, and the employee's related work experience, education, and certifications.

SURVEY TECHNICIAN I: Performs complex (journey-level) surveying and mapping work. Works under general supervision, with moderate latitude for the use of initiative and independent judgment. Employees at this level may work more independently and may routinely assist other staff in performing job duties of greater complexity.

SURVEY TECHNICIAN II: Performs highly complex (senior-level) surveying and mapping work. Works under limited supervision, with considerable latitude for the use of initiative and independent judgment. Employees at this level may:

- Select instruments and equipment needed for the day; ensure that equipment and instruments are clean and operational.
- Conduct technical geodetic and satellite surveys involving the use of special high-accuracy techniques for mapping projects.
- Obtain, process, and analyze raw field survey data collected from electronic survey equipment and/or global positioning system equipment.
- Take field notes, verify accuracy of field notes, perform necessary calculations, draw plots, and document work in the field diary.

GENERAL QUALIFICATION GUIDELINES

EXPERIENCE AND EDUCATION

Experience in surveying and mapping work. Graduation from a standard senior high school or equivalent supplemented by courses in drafting, architectural or mechanical drawing, and mathematics is generally preferred. Experience and education may be substituted for one another.

KNOWLEDGE, SKILLS, AND ABILITIES

- Knowledge of surveying and mapping principles, techniques, and procedures; algebra, geometry, and trigonometry; and building construction methods and components.

- Skill in the use of a computer and applicable software, including global positioning system and computer aided design applications.

- Ability to interpret field notes, sketches, plans, or specifications; to make mathematical calculations; to check drawings, computations, plans, estimates, design details, or specifications for accuracy; to analyze and solve drafting and design problems; and to communicate effectively.