

CITY OF CHATTANOOGA

Classification Specification Title: Survey Instrument Technician

Department: Public Works

Pay Grade: GS.04

Supervision Received From: Engineering Manager

FLSA Status: Non-Exempt

Supervisory Responsibility For: None

Established: 6/29/07

Revision Dates: 4/4/25;

10/20/23; 1/11/23

CLASSIFICATION SUMMARY:

Incumbents in this classification are responsible for collecting topographical and property survey data using electronic survey equipment to measure distance, height, and depths on the Tennessee State Plane coordinate system. Duties include performing precise location and measurements of existing topographical elements for design purposes; establishing element locations for construction (construction layout); assisting in field design of drainage projects. Works under moderate supervision.

SERIES LEVEL: The Survey Instrument Technician is the first level of a three-level survey series.

ESSENTIAL FUNCTIONS:

(The following duties ARE NOT intended to serve as a comprehensive list of all duties performed by all employees in this classification, only a representative summary of the primary duties and responsibilities. Incumbent(s) may not be required to perform all duties listed and may be required to perform additional, position-specific duties.)

Collects survey data, utilizing electronic survey equipment to measure distances, heights, depths, and locations based on Tennessee State Plane coordinate system to establish topographic information for engineering design use.

Field location of existing property corners and Right of Way (ROW); establish horizontal and vertical survey control from established Tennessee State Plane monument points; existing benchmarks, property corners and/or centerline points shown on plats, plans and deed books; runs levels between traverse points to check precision.

Performs electronic staking out of design points, including driving stakes/nails into the ground or pavement to establish precise points.

Downloads field-collected data associated with topographical mapping for the design of proposed projects.

Assists in field design of drainage projects by collecting elevations, depths, distances, and establishing stakeout points. Uses computer software to carry out various duties.

Must meet regular attendance requirements.

Must be able to maintain good interpersonal relationships with staff, co-workers, managers, and citizens.

Must accomplish the essential functions of the job, with or without reasonable accommodations, in a timely manner.

Performs other duties as assigned.

DEPARTMENT SPECIFIC DUTIES (if any):

MINIMUM QUALIFICATIONS: High School Diploma or GED required and two (2) years related survey or construction experience; or any combination of equivalent experience and education.

LICENSING AND CERTIFICATIONS: Valid Driver's License; Certificate in Surveying (Preferred).

SUPPLEMENTAL INFORMATION:

Knowledge of land surveying principles and practices; algebra, trigonometry and geometry principles; operating applicable tools and equipment of the trade.

Skill in performing mathematical calculations involving algebra, trigonometry and geometry; determining volume, triangulation points and offset points; using a computer and related software applications; operating survey total station and data collector equipment; determining layout locations for off-set stakes in construction; interpreting engineering drawings, plans, plats, easements and related documents; communication and interpersonal skills as applied to interaction with coworkers, supervisor, and the general public, sufficient to exchange or convey information and to receive work direction.

PHYSICAL DEMANDS: Positions in this class typically require stooping, kneeling, crouching, reaching, standing, walking, pushing, pulling, fingering, grasping, talking, hearing, seeing, and repetitive motions.

WORK ENVIRONMENT: Medium Work: Exerting up-to 50 pounds of force occasionally and/or up-to 20 pounds of force frequently and/or up-to 10 pounds of force constantly to move objects. Incumbents may be subjected to moving mechanical parts, fumes, odors, dusts, extreme temperatures, and workspace restrictions.

SPECIAL REQUIREMENTS:

Safety Sensitive: Y

Department of Transportation - CDL: N

Child Sensitive: N

The City of Chattanooga, Tennessee is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City will provide reasonable accommodations to qualified individuals with disabilities and encourage both prospective and current employees to discuss potential accommodations with the employer.