

SENIOR ENGINEERING TECHNICIAN (SURVEY)

DISTINGUISHING FEATURES OF THE CLASS: Under supervision, an incumbent of this class assists in mapping out County structures, roads, waterlines, sewers, parks, etc. by operating a total station and survey grade Global Positioning Systems (GPS) to import field data. Work also involves processing collected survey information by using AutoCAD software, researching survey record information (maps, deeds, etc.) and Geographic Information Systems data both online and through files located within the department, as well as those located in the County's municipal offices. Work is performed both in the office and in the field, and incumbents are expected to collect survey information in a variety of field environments. Incumbents may function independently the field, or as a lead worker of a survey crew. Supervision is not a responsibility of this position. Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Operates all types of survey instruments for boundary and topographical surveys, leveling, constructions projects, and surveys for sewer lines, water lines, etc.

Establishes survey bench marks for structures, roads, sewers, parks, etc;

Takes field notes and makes sketches;

Opens manholes to obtain survey locations and instruments;

Enters varied terrain such as streams, densely vegetated areas, roadways, etc. to obtain survey locations and measurements; follows departmental protocols to ensure safety;

Processes survey field work using AutoCAD software;

Plots areas, sections and profiles;

Maintains both digital and paper files of survey documentation;

Conducts research on deeds, maps and other data;

Uses computer applications or other automated systems such as spreadsheets, word processing, calendar, or e-mail and database software in performing work assignments;

May compute and check estimates;

May do routine drafting or tracing of structures and highways;

May perform other incidental tasks, as needed.

FULL PERFORMANCE, SKILLS, ABILITIES AND ATTRIBUTES: Good knowledge of surveying practice and theory; good knowledge of the modern methods and equipment used in surveying; skill in surveying; ability to make simple sketches, maps, plans and engineering computations; ability to follow complex oral and/or written instructions; ability to effectively use computer applications such as spreadsheets, word processing, calendar, e-mail and database software; ability to read, write, speak, understand and communicate in English sufficiently to perform the essential tasks of the position; ability to get along well with other people; accuracy; reliability; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: Possession of a high school or equivalency degree and either: (a) completion of a two year course* in construction technology at a recognized post high school, trade or technical school and two years of experience where the primary function of the position was surveying; or (b) four years of experience where the primary function of the position was surveying; or (c) satisfactory equivalent combination of training experience as defined by the limits of (a) and (b).

*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Department of Education as a post-secondary, degree-granting institution.

NOTE: Unless otherwise noted, only experience gained after attaining the minimum education level indicated in the minimum qualifications will be considered in evaluating experience.