

**ORANGE COUNTY CLASS SPECIFICATION**

**TITLE:** ENGINEERING TECHNICIAN **GRADE:** 10

**TITLE ABBREVIATION:** ENGINEERING TECH **TITLE NO.:** 6381

**JURIS.CL:** C **SALARY CODE:** 01 **EEO CODE:** TE **FLSA CODE:** NE

**DEPARTMENT:** PUBLIC WORKS **DIVISION:** ENGINEERING

**SUPERVISOR'S TITLE:** JUNIOR ENGINEER

**DISTINGUISHING FEATURES OF THE CLASS:** This technician level of engineering work involves responsibility for the independent field application of basic engineering principles in the construction and maintenance of highways and bridges. The incumbent works under the general supervision of a Junior Engineer, or higher-level engineer, allowing latitude for the exercise of independent judgment on assigned projects. Direct supervision may be exercised over subordinates to whom specific assignments are given and whose work is checked in progress and upon completion. Does related work as required.

**TYPICAL WORK ACTIVITIES:**

1. Inspects contractual and inhouse construction work on highways, bridges, culverts, and other public works projects assuring that plan and specification requirements are met;
2. Conducts preliminary surveys with infrared transit, or related apparatus, for engineering design work and establishing property lines and areas, running base lines, in establishing slopes and grades, and in staking for highway construction and reconstruction;
3. Enters appropriate code descriptions and drawing commands into computerized data box collector during transit shots;
4. Completes various computations related to field surveys;
5. Maintains records of field notes and computations;
6. From design plans assists in laying out field measurements and points for construction projects;
7. May draft topographical, detail plan, and cross section maps and charts;
8. Completes detailed condition analyses on all county roads and culverts;

9. Engages in related engineering work in field and office involving road permits, traffic control and safety, subdivisions and specifications;
10. Receives, responds to, and/or forwards, if needed, public property owner complaints to appropriate departmental authority;
11. Prepares prints of plans, drawings, and documents;
12. Performs general engineering office work.

**FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL**

**CHARACTERISTICS:** Thorough knowledge of basic arithmetic; good knowledge of engineering survey and inspection practices; skill in the use of drafting and surveying instruments; ability to use mathematical tables; ability to read, interpret and lay out engineering drawings and specifications; ability to plan and organize the work of para and non-technical subordinates; ability to prepare clear and accurate technical reports; ability to get along well with others; ability to follow specific and detailed instructions; mental alertness; accuracy; initiative; physical condition commensurate with the demands of the position.

**MINIMUM QUALIFICATIONS:**

- (A) Graduation from a regionally accredited college or university or one accredited by the New York State Board of Regents to grant degrees with an Associate's Degree in Engineering and one (1) year of experience in land surveying or other sub-professional capacity in civil engineering; OR
- (B) Graduation from high school or possession of a high school equivalency diploma and three (3) years of experience in land surveying or other sub-professional capacity in civil engineering.

**SPECIAL REQUIREMENT:** Possess and maintain a valid driver's license.

REVISED: 09/14/17 dc