

CIVIL ENGINEER

DISTINGUISHING FEATURES OF THE CLASS: The work involves responsibility for planning improvements to existing county roads and designing new roads and bridges. A Civil Engineer receives assignments in general terms, however the scope of each assignment is limited to procedures outlined by the County Highway Superintendent. General supervision is occasionally exercised over the work of Equipment Operators and Laborers. Does related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative only)

Plans grades, alignments, drainage structures for roads and bridges;
Calculates needed rights-of-way and prepares property descriptions necessary for road construction;
Directs a field survey party;
Calculates costs of construction projects;
Prepares preliminary drawings from field notes;
Supplies construction drawings to work parties;
Checks work in progress of adherence to plans;
Arranges for the removal of utilities from work sites;
Computes hearings, alignments and curves;
Serves as a consultant to Town Highway Superintendents;
Conducts correspondence regarding projects with the public and regulatory agencies;
Updates county road maps;
Prepares traffic count and bridge work records for inclusion in annual report.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Good knowledge of Civil Engineering practices and procedures; ability to make engineering computations using engineering tables and formulas; ability to interpret engineering plans, charts and drawings; skill in the use of field and office engineering instruments; ability to understand and carry out oral and written instructions; ability to compile data and prepare written reports; attention to detail; ability to maintain office engineering files; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Either:

- (a) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's Degree in Civil Engineering; or
- (b) Graduation from a regionally accredited or New York State registered college or university with an Associate's Degree in Construction, Civil or Engineering Technology and two years of experience participating in engineering projects including the operation of survey instruments and making of survey computations using engineering tables and formulas; or
- (c) Four (4) years of experience as described in (b); or
- (d) An equivalent combination of training and experience as defined by the limits of (a), (b), or (c).