ENGINEER I

DISTINGUISHING FEATURES OF THE CLASS: This is entry-level professional civil engineering work of a moderately complex nature involving responsibility for the performance of a variety of duties with respect to the planning, design and inspection of public works projects (e.g. roads, bridges, drainage). The work is performed under the supervision of a higher-level engineering professional and work guidance (e.g. lead work) may be provided to others. Does related work as required.

TYPICAL WORK ACTIVITIES:
Plots notes and engineering data;
Designs horizontal and vertical alignments of highway, drainage ways and other such structures;
Develops plans, including topography, cross-sections, profiles and property lines;
Searches for deed data relating to property and acquisition surveys and maps;
Reviews routine designs, computations and plans of other engineers for mistakes and errors;
Designs and prepares bridge construction plans and specifications;
Compiles routine specifications and plans for construction projects;
Performs inspections of public works construction projects and issues routine directives;
Answers inquiries from the public and construction personnel regarding survey monuments, rights-of-way, road grades and alignments, etc.;
Performs other related duties as directed by the supervisor;
May contact homeowners to secure rights-of-way and resolve problems.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:
Good knowledge of the principles of engineering, good knowledge of civil engineering and construction practices and terminology; working knowledge of design equipment and techniques; working knowledge of surveying equipment and terminology; ability to interpret engineering plans and specifications; ability to reduce survey notes and plot to scale and to make design drawings.

MINIMUM QUALIFICATIONS: A Bachelor’s degree in Engineering, which included or was supplemented by at least fifteen (15) semester hours in Civil Engineering or comparable curriculum.

R.C.D.P. (07.17.2000) 11.15.2015 - Job specification may be subject to further revision
Competitive