

## **ENGINEER I**

**DISTINGUISHING FEATURES OF THE CLASS:** This is entry-level professional 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 engineering projects. The work is performed under the supervision of a higher-level administrator and work guidance (e.g. lead work) may be provided to lower level technical and/or clerical employees. 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 and practices and terminology of engineering and construction methods and materials; working knowledge of design equipment and techniques; ability to interpret engineering plans and specifications; ability to prepare reports.

**MINIMUM QUALIFICATIONS:** A Bachelor's degree or higher in Engineering.