

## **CIVIL ENGINEER II**

### CODES/PAY RANGE

Class Code: 2110

EEO Code: B

Pay Range: 217

### MAJOR FUNCTION

Advanced engineering work that may involve limited supervisory responsibility.

### ILLUSTRATIVE DUTIES

(NOTE: These are intended only as illustrations of the various types of work performed. The omission of specific duties does not exclude them from the position if the work is similar, related, or a logical assignment to the position.)

Makes engineering investigations and prepares report of findings. Assists supervising engineers in review of plans or reports prepared by private registered engineers. May be assigned as engineer to a special complex project or in a lead worker capacity on routine design assignments.

Performs design work on projects as assigned. Assists in the planning and directing of an engineering section or unit. Leads technicians and/or engineers of the lower level in assigned tasks as directed.

Prepares preliminary cost estimates on projects.

Assists in supervision of construction and inspection of complicated highway, structural, drainage, water supply, and sanitary sewerage projects. Performs on-site inspections of projects.

Assists in the planning and supervision of, operation and maintenance of, major Public Works facilities, including highways, bridges, water supply, sanitary sewerage, and drainage facilities.

Coordinates work with other divisions, contractors, inspectors, etc.

Performs specialized civil engineering functions and duties within the division.

Performs related work as required.

### KNOWLEDGE, ABILITIES AND SKILLS

Knowledge of mathematics through trigonometry and its application to engineering computation. Knowledge of the principles and practices of civil engineering. Knowledge of modern development, current literature, and sources of information regarding public works design,

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construction, operation, and maintenance.

Ability to coordinate and review the work of technical and clerical assistants. Ability to perform engineering and inspection work on complicated highway, structural, water supply and sanitary sewerage projects.

**MINIMUM QUALIFICATIONS**

Three (3) years as a Civil Engineer I with the County; or, a Bachelor's Degree in Civil Engineering and three (3) years experience in civil engineering design with emphasis on public works projects; or, registration as a Florida Professional Engineer and three (3) years of experience in civil engineering design with emphasis on public works programs.

A comparable amount of education, training, or experience may be substituted for the minimum experience.

**ADA REQUIREMENTS**

Physical Demands: Sedentary work. Ability to see, talk, grasp; finger dexterity. Limited requirement to traverse construction sites.

Environmental Demands: Inside work. Limited exposure to construction sites with dust, fumes, chemicals, inclement weather (heat, humidity, cold, rain.)

Mental Demands: Ability to read and comprehend technical and scientific instruments, documents, and literature; legal documents, statutes, instruments; blueprints, layouts, mechanical drawings; memos, instructions, manuals. Ability to write business letters, evaluations, summaries. Ability to speak clearly and concisely relating information, details and procedures to layman; conversant in theory and practices of discipline. Ability to perform advanced mathematical functions (geometry, trigonometry.) Ability to identify and resolve problems. Ability to analyze data and develop conclusions.