



CLASS SPECIFICATION FOR:

Engineer II

General Statement of Duties:

Performs professional engineering work in the field and in the office for an assigned department; monitors and inspects assigned projects to ensure the completion of projects in compliance with all contract specifications and applicable local, state and federal laws; reviews plans, permits and contracts; does related work as required.

Distinguishing Features of Class:

The work involves the application of professional engineering knowledge and skills in the area of assignment. Reviews plans for proper techniques and acceptable engineering practices; may review permits; makes engineering calculations (routine and more complex), and ensures assigned projects' compliance with all applicable code requirements. Monitors and inspects all phases of construction, including the more complex construction projects, and makes site visits and ensures assigned projects are completed within approved specifications and budgets. Assignments afford opportunities for independent judgment in planning work and making technical determinations. Recognizes and troubleshoots problems; identifies, selects and implements appropriate solutions. May consult with higher level engineers and supervisor for unusual issues. May train and/or supervise professional and paraprofessional engineering personnel, skilled and unskilled staff. Serves as the subject matter expert providing policy interpretation and technical assistance on project issues for County agencies, the County Board, residents, developers, contractors and other stakeholders involved in the projects. Requires the ability to monitor and inspect complex projects of varying size, scope and impact and work with diverse array of internal and external stakeholders to resolve issues and complete projects according to specifications and within approved budgets. Work is performed under the general supervision.

Examples of Assigned Duties *(illustrative of the types and scope of duties and responsibilities assigned to positions in this class):*

- Review plans, permits and contract documents as assigned for accuracy, completeness, cost effectiveness and compliance with project specifications, applicable standards, County policies and procedures and acceptable engineering practices;
- Monitors and inspects all phases of construction for assigned projects and permits to ensure compliance with contract documents, plans, specifications, standards, County policies and procedures and other requirements;
- Reviews and evaluates plans, makes comments and recommendations as needed;
- Plans, reviews, designs, and performs engineering calculations for a variety of projects for an assigned department;
- Provides professional engineering support and technical advice in connection with assignments and projects;
- Provides policy interpretation and technical assistance on assigned projects and related issues for County agencies and staff, residents, developers, contractors and other stakeholders involved in project related activities;
- Provides design recommendations, coordinating reviews with developers and engineers in the interpretation of County standards and policies;
- May engage in a wide variety of interactions and meetings with the public, regulatory agencies, developers, contractors, engineers and other stakeholders regarding project related concerns and activities;
- Makes decisions related to plans and project design, construction and compliance;
- Identifies and negotiates appropriate and cost-effective resolutions of engineering and construction issues with developers, contractors and other stakeholders;
- Inspects and ensures compliance with design standards, codes, County ordinances, and sound engineering practices;
- Reviews, approves, rejects or modifies work at sites ensuring projects are completed using safe engineering principals and adheres to all applicable regulations and projects requirements;
- Makes site visits and field investigations to determine site conditions and impact of development with County standards and all other relevant requirements;
- Assists in negotiating and preparing contracts for developers, attorneys, realtors, and property owners;
- Documents and reports on regulatory issues, system operational issues, design and improvement problems;
- May supervise professional, paraprofessional and administrative staff as assigned;
- Assists in preparing code revisions for submission to review board;
- Attends staff developer meetings and represents the County on assigned projects;



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- May prepare, justify and/or manage budgets for assigned work;
- Audits and reviews plans identifying constructability problems to ensure conformance with codes and regulations;
- Manages compliance efforts for applicable environmental and safety related standards to ensure compliance of OSHA and other safety and health related regulations;
- Maintains current knowledge of industry best practices, methods, techniques, equipment, etc.;
- Attends all scheduled meetings and required training and maintains all required certifications;
- Performs other duties as assigned.

Required Knowledge, Skills and Abilities:

Considerable knowledge of engineering principles and practices as it relates to the assigned position and department; good knowledge of legal, administrative, and technical aspects of applicable local, state and federal codes and referenced standards; ability to plan, design and prepare related estimates and specifications; ability to prepare and review plans; sound working knowledge of methods and practices used in engineering, inspection and construction of County infrastructure projects for assigned department; ability to make complex engineering calculations; knowledge of environmental impacts, relevant to storm water management, and erosion control principles and practices, as applied to the construction of County infrastructure projects; ability to create and review complex construction documents, designs and proposals for costs, design requirements and compatibility (compliance) with County standards, guides and applicable local, state and federal requirements; ability to accurately and consistently interpret and apply complex regulations and policies; ability to multitask and effectively manage competing priorities; ability to research, collect and maintain data, consider and weigh a variety of factors in making decisions or recommendations; ability to lead, manage and partner effectively; ability to express ideas clearly and concisely, orally and in writing to diverse audiences of stakeholders including but not limited to County Officials, County employees at all levels, engineers, developers, contractors, landowners and citizens; good supervisory skills including the ability to effectively manage workloads, projects and to foster and maintain high morale and engagement; ability to synthesize multiple types of complex data and produce easily understood reports and other materials; basic accounting or other financial skills with sufficient ability to monitor and manage expenditures in accordance with County Finance policies and within an approved budget; physical condition that permits activities including but not limited to perform assigned duties and access diverse environmental locations countywide; personal accountability including teamwork and establishing and maintaining positive relationships with a diverse community of internal and external stakeholders, customers and colleagues; critical thinking skills with the ability to problem solve; good knowledge of personal computers and/or automated systems having the ability to enter, maintain, retrieve and analyze data; ability to multitask and effectively manage competing priorities and make sound decisions; may require a flexible work schedule based on assignments; ability to work on own initiative without close supervision or guidance.

Minimum Education and Experience:

- Education: Possession of a four (4) year degree in a relevant recognized field of engineering from an ABET accredited engineering program.
- Experience: Two (2) years of related professional experience in engineering.
- OR:** Any equivalent combination of experience and training which provides the necessary knowledge, skills, and abilities

Additional Requirements:

NOTE: Effective 4/1/2009 County Ordinance 1128 requires a criminal history record check and fingerprinting of all employees in authorized and hourly safety sensitive positions.

NOTE: All employees are required to successfully complete National Incident Management System (NIMS) Incident Command System (ICS) 700 (Introduction) training. Successful completion of additional NIMS ICS training courses may be required based on the job classification, level of responsibility, and department. Please refer to Fire's Intranet site for a list of NIMS ICS requirements by job classification.

- Requires possession of a valid driver's license issued by the Commonwealth of Virginia.
- May require annual audio test or other job related physical testing as required by assigned position or department.