



Class Title	Senior Civil Engineer
Position Number	0780
Department	Development Management
Division	Engineering and Resource Protection
Supervised By	Engineer Chief Civil

Nature of Work:

Performs advanced professional work involved with the engineering and plan of development review functions associated with the County's Bay Act, erosion and sediment control, drainage standards, and stormwater management programs.

Primary Duties:

- Performs thorough plan of development reviews on complex cases for drainage, erosion and sediment control, stormwater management, and Bay Act program requirements.
- Communicates with the development community on plan of development reviews.
- Plan of development case management with the Planning Commission and Development Review Committee.
- Provides technical assistance to inspectors and planners on engineering issues.
- Special assignments from the Chief Civil Engineer.
- Performs other job-related duties as assigned.

Job Preparation Needed:

- Bachelor's degree in civil engineering or related field.
- Registration as a professional engineer in the Commonwealth of Virginia.
- Certificate of competence as a plans reviewer from the Commonwealth of Virginia, Virginia Soil and Water Conservation Board.
- Demonstrated competency in complex project/case management.
- Knowledge of County drainage, erosion and sediment control, stormwater management and Bay Act program requirements.
- Knowledge of principles and practice of engineering, hydrology and hydraulics as it pertains to plan preparation, plan review, construction, and compliance monitoring for site and subdivision plans.

Post Offer Requirements:

- Credential check
- Driving record check

Introductory Period for this position is six months.

Post Hire Requirements:

- Periodic Driving record check.
- Must maintain required certifications/training.

Job Locations and Conditions:

- Performs work primarily in a professional office setting.
- Performs work in the field on undeveloped property, construction, and development sites throughout the County.
- Performs work safely in accordance with County safety policy and procedures and specific departmental safety procedures.
- Operates equipment safely and in accordance with training, wears appropriate personal protective equipment, and reports any unsafe work conditions or practices to a supervisor.
- May be required to report to work to serve customers during emergency conditions.
- May be required to attend public or civic meetings at night or on weekends.

Career Ladder Class:

- This is third level of a three step career ladder.
- Classes are Civil Engineer I, Civil Engineer II, and Senior Civil Engineer.



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General Aptitudes and Physical Requirements:

The Americans with Disabilities Act requires that we identify the general aptitudes and physical requirements needs to perform the job listed above. Individuals who have the position must be able to perform all essential job functions unaided or with reasonable accommodation.

Mental Abilities:

- Must have general learning ability and the ability to “catch on” or understand instructions and underlying principles, to understand and follow oral instruction, to understand and follow written instruction, to guide and/or give instructions, and to make decisions in accordance with established procedures and policies.

Verbal Abilities:

- Speaking/Talking: Must have ability to understand meanings of words and ideas associated with them and to use them effectively, comprehend language to understand the relationship between words and to understand meanings of whole sentences and paragraphs, present information or ideas clearly, answer telephone, radio or switchboard; communicate with County officials, communicate with general public, communicate with vendors, communicate with supervisors and/or with other employees.
- Hearing/Listening: Must have ability to communicate with County officials, public, vendors, supervisors, and/or other employees.
- Reading (ability to read and understand text): Must have ability to read.

Numerical:

- Must have ability to mentally perform accurate two digit calculations; ability to perform accurate calculations aided by a calculator, adding machine or measurement device.

Spatial Abilities:

- Must have ability to comprehend forms in space and understand relationships of plane and solid objects. Frequently described as the ability to “visualize” objects of two or three dimensions, or to think visually of geometric forms.

Motor Coordination:

- Must have ability to coordinate eyes and hands or fingers rapidly and accurately in making precise movements with speed, ability to make a movement response accurately and quickly, ability to move the hands easily and skillfully, ability to work with the hands in placing and turning motions, ability to use telephone, use radio/console, use calculator, use copy machines, use fax machine, use hand tools, and manipulate computer keyboard and mouse

Finger Dexterity:

- Not essential to job.

Physical Demands:

- Strength: Must have the quality, state, or property of being strong, must have the power to withstand strain, force, or stress, must be able to manipulate materials and/or equipment on occasion by lifting, push/pull, or hold/carry a weight of 5-10 lbs from ground to waist or from waist level.
- Standing, sitting, walking, running: Must have ability to: occasionally (1-3 hours/day) stand, occasionally (3-5 hours/day) walk, frequently (5-7 hours/day) sit. Must be able to walk or run on flat and rough terrain.
- Stooping, kneeling, crouching, and/or crawling: Must have ability to bend forward or down from the middle of the waist or the middle of the back, to bend downwards, to lower oneself and/or to move freely on hands and knees 0-5 times per day.
- Reaching, handling, fingering, and/or feeling: Must have ability to stretch out, extend, or put forth a bodily part; to touch or grasp something, by extending or stretching; to touch, lift, hold or operate with hands 0-5 times per day.
- Seeing: Must have ability for depth perception, color perception, focus, night vision, and peripheral vision.

Driving:

- Must have ability to drive automatic transmission: car, van, and small truck.