

CLASS SPECIFICATION FOR
Bridge Inspector

GENERAL STATEMENT OF DUTIES: Performs engineering work and highly technical inspections on existing bridges, new bridges, roads and major drainage structures. Administers various types of Capital Improvement Projects for roads and bridges. Performs related work as required.

DISTINGUISHING FEATURES OF THE CLASS: Primarily, this position is responsible for technical inspections and records of all bridges and major structures that are required under the National Bridge Inspection System. Evaluates structures based on engineering principles, construction knowledge and experience; rates condition of structures, makes recommendations for corrective work and oversees work. In addition, manages, directs, coordinates and inspects major road, bridge and drainage projects to ensure compliance with plans, specifications and County requirements. Provides technical guidance on structures and occasionally supervises construction inspectors.

EXAMPLES OF WORK (illustrative only):

- Serves as the County's liaison with the Virginia Department of Transportation on issues regarding reports and condition of bridges and major drainage structures;
- Manages the inspection program for the National Bridge Inspection System for County maintained Structures;
- Inspects all structural components of existing bridges and major structures according to the requirements of the National Bridge Inspection System;
- Discusses structural deficiencies with consultant engineers and makes recommendations.
- Participates in design, construction and progress meetings;
- Manages, directs and inspects all phases of major road, bridge and drainage projects to ensure compliance with plans, specifications, contract requirements and County requirements;
- Prepares and maintains project documentation, reports, cost records, reviews billing invoices for approval;
- Inspects construction materials for compliance of specifications, plans and contract documents;
- Reviews plans and contract documents for constructability, consistency, errors and omissions;
- Analyzes problems and/or conflicts in construction and resolves or participates in the resolution of the problem;
- Performs related work as assigned.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES: This position requires considerable knowledge of principles and practices of engineering and experience in maintenance and construction as related to bridges, major drainage structures and roads. Must have technical knowledge of foundations, footings, types of pile, pile driving, form work, structural steel, welds, welding requirements, reinforcing steel, concrete, precast structures, post tensioning and prestress systems. Must be knowledgeable of State and Federal requirements and the Virginia Department of Transportation Road and Bridge Specifications and Standards with regards to construction methods and materials. Ability to interpret plans, specifications and contract requirements. Must be knowledgeable of the Virginia Work Area Protection Manual, plans, contract administration, surveying, engineering principles and County requirements. Ability to make decisions based on good judgment and sound engineering practices. Ability to communicate effectively with engineers, consultants, contractors, utility companies, the general public and other governmental agencies and departments. Ability to walk long distances, climb, bend, lift, drive and to work under adverse weather conditions. Ability to work independently with minimal supervision and guidance.

MINIMUM EDUCATION AND EXPERIENCE: Graduation from high school, preferably supplemented by college courses in engineering, Virginia Department of Transportation Material Certifications, and five (5) years sub-professional engineering experience in construction of bridges and roads; OR any equivalent combination of experience and training which provides the required knowledge, skills and abilities. Must be certified as a bridge inspector for the National Bridge Inspection System and possess the knowledge, skills and ability to inspect, evaluate and rate bridges and major drainage structures in accordance with Federal guidelines.

Bridge Inspector (Continued)

ADDITIONAL REQUIREMENTS: Possession of a valid driver's license issued by the State of Virginia. May require possession of a valid Virginia Commercial driver's license, with endorsements and without restrictions. May require a pre-employment physical examination and/or medical tests administered by Henrico County Employee Health Services, the components of which are based on and appropriate to the specific sensory and/or physical demands of the given position.

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This is a class specification and not an individualized job description. A class specification defines the general character and scope of duties and responsibilities of all positions in a job classification, but it is not intended to describe and does not necessarily list the essential job functions for a given position in a classification.