



**NORTH LOOP WATER LINE PROJECT
EROSION AND SEDIMENT CONTROL NARRATIVE**

Project Description
The north loop phase 5 water line project consists of installing approximately 8,700 LF of 24-inch water line. The project begins at the end of the existing 24-inch north loop located near Glenvar Heights Boulevard, and goes cross country in a northeast direction terminating along Westward Lake Drive. The water line is to be installed within 20 and 25-foot wide dedicated water line easements and the expected area to be disturbed will be approximately 4.99 acres.

Existing Site Conditions
The existing conditions consist of grassland and wooded areas that range from relatively flat to moderately steep.

Adjacent Areas
Residential areas, farmland and wooded areas.

Off-site Area
No offsite land disturbing areas will occur. Any borrow or fill used for this project will be the responsibility of the contractor to supply, and will not disturb other areas.

Soils
The typical soils encountered in this region should consist of Tumbling Loam, Gilpin Loam, Weikert-Rock Outcrop, and Weikert-Berks Complex.

Critical Areas
Two classified branches will be crossed. Stypes Branch near station 26+00 and Little Bear Rock Branch near station 63+00. The entire drainage area for both branches is 3.5 miles according to the FEMA flood insurance study of 1993. A steep slope will be encountered between stations 37+00 and 56+00 and again between stations 63+00 and 66+50. A steep slope adjacent to Little Bear Rock Branch will be paralleled between stations 67+00 and 72+00. All stream crossings to be in accordance with Virginia Erosion and Sediment Control Handbook (VESCH) STD. & SPEC. 3.25.

Erosion and Sediment Control Measures
Material from trench excavation will be placed on up hill side of trench. Temporary silt fence will be used as required near critical areas of the project. Permanent seeding will be applied in accordance with Erosion and Sediment control regulations VR 625-02-00 and VESCH STD. & SPEC. 3.32. Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed and maintained according to the minimum standards and specifications of the "Virginia Erosion and Sediment Control Handbook," third edition. No more than 500 feet of open trench at any one time. Effluent of dewatering system must be filtered. Temporary measures should be removed within 30 days when no longer needed.

Permanent Stabilization
Permanent seeding will be applied in accordance with Erosion and Sediment control regulations VR 625-02-00.

Stormwater Runoff Considerations
The proposed project should not cause an increase in peak runoff rates and will not cause flooding of channel degradation downstream.

ENGINEERING SERVICES

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**NORTH LOOP PHASE 5
SHEET INDEX and E & S NARRATIVE**

Designed By:	RRB
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Checked By:	JGR
Date:	06/02/06
Scale:	N.T.S.
Plan #:	00-00
Sheet:	3 OF 12

