

## **BOULDER TOE PROTECTION**

### **Description**

The work covered by this section consists of the construction of physical barriers placed along the banks of the stream at locations designated on the plans.

The quantity of Boulder Toe Protection to be installed will be affected by the actual conditions that occur during the construction of the project. The quantity of boulder toe protection may be increased, decreased, or eliminated entirely as directed. Such variations in quantity will not be considered as alterations in the details of construction or a change in the character of the work.

### **Materials**

Refer to Division 10 of NCDOT 2018 Standard Specifications for Roads and Structures

<b>Item</b>	<b>Section</b>
Geotextile for Drainage, Type 2	1056
Boulder	1042 and SP for Structure Stone
No. 57 Stone	1005
Rip Rap, Class A	1042

### **Construction Methods**

Boulder Toe Protection shall be constructed according to the Boulder Toe Protection shown on the plans or as directed by the Engineer. The footer boulders shall be set where the top of the rock shall be at the channel invert elevation. Rip Rap Class A and No. 57 stone shall be used to fill the voids and backfill behind the structure. Geotextile for Drainage, Type 2 should be used behind the structure as shown in the detail.

### **Measurement and Payment**

*Boulders* will be measured and paid for as provided in the Structure Stone Special Provision.

*No. 57 Stone* will be measured and paid for as provided in the Structure Stone Special Provision.

*Riprap, Class A* will be measured and paid for as provided in the Structure Stone Special Provision.

*Geotextile for Drainage, Type 2* will be measured and paid for as provided in the Structure Stone Special Provision.

Such price and payment will be full compensation for all work covered by this section, including, but not limited to, furnishing all materials, labor, equipment and incidentals necessary to construct the boulder toe protection.