

NATURAL RESOURCES CONSERVATION SERVICE

CONSTRUCTION SPECIFICATION

412 - GRASSED WATERWAY

1. SCOPE

This work shall consist of clearing, stripping, excavating, filling, compacting, shaping and grading as necessary for construction of the waterway at the location(s) shown on the drawings or as staked in the field.

Prior to commencing construction, public utilities shall be notified in accordance with N.Y.S. Industrial Code 753.

2. MATERIALS

The earth material used in constructing the waterway shall be obtained from the waterway channel and cut slope or other approved sources as specified in Section 6. It shall be free of frozen particles, brush, roots, sod, stones over 6 inches in diameter, or other objectionable materials.

3. EARTHWORK

The waterway shall be constructed to the applicable cross-sections, lines, grades, and elevations shown on the drawings.

All trees, brush, stumps and other objectionable materials shall be disposed of so that they will not interfere with construction or proper functioning of the waterway.

All earth excavated and not needed in the construction of the waterway shall be spread adjacent to the waterway or disposed of so that it will not interfere with proper functioning of the waterway. Disposal shall be in the area shown on the drawings or as specified in Section 6. All spoil and disposal areas shall be graded smooth and shall be free draining.

When filling is necessary, the foundation shall be prepared by stripping the area to be filled of sod and topsoil and by roughening the foundation before fill placement. Smooth surfaces shall be scarified to insure bonding. Prior to fill placement the foundation preparation shall be inspected and approved by the approving official or designated representative. Fill shall not be placed on a frozen surface. Fill shall be placed in uniform horizontal layers of not more than nine (9) inches in thickness prior to compaction. The moisture content of the material shall be sufficient to obtain firm compaction. Compaction shall be accomplished by the routing of construction equipment over the fill such that the entire surface of each layer will be traversed by not less than one track of the construction equipment or equivalent methods, unless otherwise specified in Section 6 of this specification.

4. STONE-CENTERED WATERWAY

When a stone-centered waterway is specified, the stone and specified bedding shall be installed to the lines, grades, and thicknesses as shown on the drawings. The stone material shall be dense, sound, and free from cracks, seams, or other defects. The stone shall be angular to subrounded in shape and meet the gradation requirements shown on the drawings or as specified in Section 6. On-farm stone sources are permitted provided

they meet the quality and gradation requirements specified herein.

The stone shall be placed or dumped and spread to the dimensions shown on the drawings in such a manner to avoid displacement or damage to bedding material. The stone shall be placed to ensure a homogeneous stone layer. The layer shall contain no large unfilled spaces.

5. MEASUREMENT AND PAYMENT

Method 1

For items of work for which specific unit prices are established in the contract, the length of the waterway will be measured to the nearest linear foot along the centerline of the channel. Payment for the waterway will be made at the contract unit price. Such payment will constitute full compensation for all labor, materials, equipment, tools, and other appurtenances necessary and incidental to the completion of the work.

Method 2

For items of work for which specific lump sum prices are established in the contract, the quantity of waterway will not be measured. Payment for the waterway will be made at the contract lump sum price. Such payment will constitute full compensation for all labor, materials, equipment, tools, and other appurtenances necessary and incidental to the completion of the work.

Compensation for any item of work described in the contract but not listed in the bid schedule will be included in the payment for the item of work to which it is made subsidiary. Such items and the items to which they are made subsidiary are identified in Section 6.

6. ITEMS OF WORK AND ADDITIONAL CONDITIONS: