

## CONSTRUCTION SPECIFICATION

### VA-727. DIVERSIONS & WATERWAYS

#### 1. SCOPE

The work consists of all excavations, shaping, grading, and earthfills required to construct diversions and waterways as shown on the construction drawings or at locations as directed by the NRCS or SWCD representative. Stone centers and subsurface drainage may be used to control continuous seasonal flows or springs and high water tables.

#### 2. MATERIAL

The earth material used in constructing the diversion or waterways will be suitable material obtained from required excavations or designated borrow areas. The earth material will contain no frozen soil, rocks greater than 6 inches in diameter, sod, brush or other objectionable material.

#### 3. FOUNDATION PREPARATION

The foundation area of fill sections will be cleared and grubbed, stripped of unsuitable material and scarified prior to placing fill. Available topsoil will be salvaged and stockpiled for later spreading. Slopes will be shaped to 2:1 or flatter.

#### 4. PLACEMENT

Earthfill will not be placed until the required excavation and foundation preparation has been completed and the foundation has been inspected and approved by the NRCS or SWCD representative. Earthfill will not be placed when the ground is frozen or excessively wet. Snow, ice or frozen material will not be incorporated in the earthfill.

Earthfill will be started at the lowest part of the section under construction and will be placed in uniform horizontal layers not exceeding 9 inches in thickness prior to compaction. Earthfill placement will be to the lines and grades shown on the construction drawings. The moisture content of the earthfill material will be such to achieve the required density.

The earthfill material will be compacted by routing the hauling and spreading equipment over the earthfill in such a manner that the entire surface of each layer of the completed ridge will be traversed by not less than one tread track of the equipment or equivalent methods approved by the NRCS or SWCD representative.

#### 5. EXCAVATION

Excavation will be to the lines and grades shown on the construction drawings. All surplus or unsuitable excavated materials will be disposed of at the locations shown on the construction drawings or at locations approved by the NRCS or SWCD representative.

6. TOPSOIL SPREADING

Stockpiled topsoil will be spread on the diversion or waterway flow area to a depth of not less than 3 inches unless otherwise approved by the NRCS or SWCD representative. The topsoil will be placed to provide positive drainage into the diversion or waterway at all points along the length of the structure.

Topsoil will not be spread when the ground or topsoil is frozen, excessively wet or otherwise in a condition detrimental to the work. The topsoil surface will be finished to a reasonably smooth surface.

7. SEEDING

During and/or immediately following construction, the diversion or waterway will be prepared, limed, fertilized, seeded and mulched in accordance with Construction Specification VA-706, Seeding.