

NATURAL RESOURCES CONSERVATION SERVICE
CONSTRUCTION SPECIFICATIONS
VEGETATED TREATMENT AREA

1. Scope

The work shall consist of cutting, filling, grading, and seeding operations for the installation of the vegetated treatment area job as outlined on the construction plans or staked in the field.

2. Location

The vegetated treatment area shall be located as specified on the construction plans or staked in the field.

3. Clearing

The land to be shaped shall be cleared of all trash, brush, crop residue, and vegetative material that can impede or hamper an effective shaping job.

4. Field Grades

Grades in the direction of wastewater flow and cross slopes shall be as specified on the construction plans or as staked in the field.

5. Surface Drainage Control

Diversions, settling basins, grassed waterways, distribution devices, and inlet structures shall be installed as indicated on the construction plans.

6. Borrow and Spoil

Excavation and fill required for the roads, ditches, etc., outside the shaped area shall be carried out as specified on the construction plans or staked in the field.

7. Earthwork Computations

The cut and fill volumes will be computed using computer programs or other approved methods.

8. Finish Grade

The land shall be shaped to the design grade or grades shown on the construction plans. In the direction of flow the allowable grade tolerance shall be ± 50 percent of the design grade as long as the slope limits for the border width are not exceeded and with no reverse grades or as specified on the construction plans. Allowable tolerance for the cross slope shall be ± 0.1 foot.

Fills over 6 inches should be built up by spreading the soil in successive layers. Fill material shall be free of weeds, crop residue, rock, rubble, and woody vegetation. Settlement allowance should be taken into consideration on fills over 1 foot.

Shaping operations shall not be performed under soil moisture conditions that would result in excessive damage to the soil structure.

9. Materials

Specifications for the conveyance pipe, concrete, gated pipe, and other appurtenances practices shall be the same as those established for the construction specifications of the component conservation practices. Used gated pipe may be allowed for the flow distribution device as stated in [Section KS512.21\(b\)\(3\)\(iv\) in the National Engineering Manual](#).

10. Vegetation

A cover of vegetation shall be established on the vegetated treatment area and other shaped practices. Include details for seedbed preparation, seeding, fertilizing, and a typical seed mix per acre on the construction plans or in the Construction Details section.

11. Measurement

The design cut in cubic yards will be used as the measurement.

12. Construction Details