

**NATURAL RESOURCES CONSERVATION SERVICE
CONSTRUCTION SPECIFICATIONS**

SURFACE DRAIN, FIELD DITCH

1. Scope

The work shall consist of all excavation for the complete installation of field ditches for surface drainage and the spreading of the excavated spoil material as specified on the drawings.

2. Location

The planned location of the field ditches shall be as shown on the plans or as staked in the field. Any change to the planned location must be approved by the designer and landowner and/or operator.

3. Site Preparation

All areas to be excavated and areas to be occupied by earthfill materials shall be cleared of trees, brush, or other debris. Materials from the clearing operations shall be disposed of as specified on the drawings.

4. Excavation

The field ditches shall be constructed to the dimensions and grades as shown on the plans or as staked in the field. Field ditches to be crossed by farm equipment shall not have flat reaches that exceed 100 feet or reverse grade. Non-crossable ditches may be excavated below grade if ponding of surface water will not constitute a health hazard.

Earth spoil material from the excavation shall be spread and graded as shown on the drawings or as staked in the field. Spoil material shall be spread and leveled so that surface water can flow into the ditch, and farming operations will not be hindered.

Double or "W" ditches shall be constructed to the grade shown on the drawings. The excavated material shall be placed between the ditches and graded to drain toward the ditches.

5. Measurement

The measurement for volume of excavation will be based on the cross sectional area computed from the natural ground line to the designed excavated depth for the measured length of the completed field ditches. The volume of excavation will be computed to the nearest cubic yard for each field ditch.

6. Construction Details