

**NATURAL RESOURCES CONSERVATION SERVICE**  
**CONSTRUCTION SPECIFICATIONS**  
**IRRIGATION CANAL OR LATERAL**

**1. Scope**

The work shall consist of excavation, filling, and grading operations for the installation of the irrigation canal or lateral and any needed structural measures as shown on the construction plans.

**2. Location**

Canals and laterals will be installed as shown on the construction plans or as staked in the field.

**3. Foundation Preparation**

The foundation area for all canal and lateral embankments (as well as all excavated areas within the constructed cross section of the canal and lateral) shall be cleared of all trees, brush, plant residue, loose rock, or other material not suited for the subgrade.

**4. Excavation**

Excavation shall conform to the grades and elevations shown on the construction plans and established in the field. Excavated materials shall be used in designated fill locations or wasted to prescribed locations. Excavation from borrow areas will be as designated on the construction plans and in the field.

**5. Placement of Earthfill**

Embankment material shall be free of brush, roots, plant residue, large rocks, or other material not suited for making compacted fills.

Moisture content and methods of placing and compacting the material shall be such that a firm, stable embankment will result. Fill material shall be placed in horizontal lifts of such thickness that proper compaction and prescribed densities will be obtained.

Overexcavation within the channel area or overfill on the canal or lateral banks will be permitted if it does not interfere with the function of the canal or related structures and if the finished section is generally smooth and of good appearance.

**6. Finish**

Finished grades and dimensions of canals and laterals shall be within the designated tolerances shown on the construction plans.

**7. Measurement**

The quantity of excavated material or embankment fill will be determined from the measured ground surfaces. Computations will be to the nearest cubic yard.

**8. Construction Details**