

**NATURAL RESOURCES CONSERVATION SERVICE
CONSTRUCTION SPECIFICATIONS**

IRRIGATION SYSTEM, TAILWATER RECOVERY

1. Scope

The work shall consist of all construction operations and furnishing all material for the complete installation of the tailwater recovery system according to the construction plans or as staked in the field.

2. Location

Location of the excavation, embankment, spillway, and appurtenant structures shall be as specified in the construction plans or as staked in the field.

3. Sediment Basin

The sediment basin shall be installed in accordance with the construction plans or as staked in the field.

4. Embankment

If the facility is primarily made by embankment fill to impound irrigation tailwater, then site preparation, excavation, borrow, earthfill placement, and cutoff trench shall comply with [Construction Specifications 378, Pond](#).

5. Mechanical Inlet Structure

Inlet structures shall comply with the material and class specified on the construction plans. Pipe installation requirements shall be as specified on the construction plans. If an embankment pond is installed to impound irrigation tailwater, [Construction Specifications 378, Pond](#), provide details. If a pit is installed, [Construction Specifications 620, Underground Outlet](#), provide details.

6. Backfilling

The trench shall be backfilled as soon as possible after laying the pipe. Backfill material shall be a loose, friable, cohesive soil that is free from clods, grass, weeds, straw, or other organic matter. The moisture content at the time of compaction shall be such that, when kneaded in the hand, a ball will form that does not separate readily.

The gradation and density requirements of the backfill shall be approximately the same as the soil against which it is placed, except the maximum size of rock shall be 2 inches.

Backfill material shall be worked along the sides of the pipe to provide solid support and watertightness. The backfill around the pipe shall be hand-compacted to a depth of at least 8 inches above the top of the pipe. Above this point, the walls of the trench shall be shaped to a minimum 2 horizontal to 1 vertical (2:1) slope, and machine-compacted fill shall be placed to the ground surface.

7. Vegetation

Areas requiring vegetation shall be seeded. Seedbed preparation, seeding, fertilizing, and mulching shall be as specified in the construction plans.

8. Fencing

Areas requiring fencing shall be fenced as specified in the construction plans.

9. Screening, Aesthetic, and Wildlife Plantings

If specified in the construction plans, tree or shrub plantings shall be planted for wildlife and visual resource enhancement of the area (at the designated locations) as detailed in the construction plans.

10. Measurement

The quantity of the excavated material will be determined from the measured ground surface to the neat lines as shown on the drawings and staked in the field. Computations will be made to the nearest cubic yard. Other components will be to the units shown in the construction plans.

11. Construction Details