

CONSTRUCTION SPECIFICATION

362. DIVERSION

1. SCOPE

The work shall consist of constructing diversions in the locations and to the grades and dimensions shown on the drawings or as stated in Section 7 of this specification.

2. MATERIAL

FILL MATERIAL used in constructing the earth fill portions of the diversion shall be obtained from the excavated area of the diversion channel, or other approved sources.

PIPE AND FITTINGS shall meet the size and material requirements as specified on the drawings or in Section 7 of this specification, when applicable.

OTHER required materials shall be as shown in the drawings or in Section 7 of this specification.

3. FOUNDATION PREPARATION

The base area of the ridge sections shall be stripped of vegetation, topsoil, and unsuitable material and scarified prior to placing fill. Topsoil shall be stockpiled and spread uniformly over the finished diversion ridge and channel, unless stated otherwise in the drawings or in Section 7 of this specification.

4. PIPE

Where specified, pipe shall be installed before earth placement unless otherwise stated on the drawings. The pipe shall be placed on a firm foundation with compacted backfill placed in horizontal lifts not exceeding 4 inches, to the lines and grades shown on the drawings.

5. PLACEMENT

Earth fill shall contain no frozen material, rocks greater than 6 inches in diameter, roots or wood greater than 2 inches in diameter or 4 inches in length, sod, brush, or other objectionable material.

The earth fill shall be compacted by routing the hauling and spreading equipment over the fill in such a manner that the entire surface of the fill will be traversed by not less than one track tread of the loaded equipment. The completed diversion shall conform to the cross section shown on the drawings, and be free of irregularities that would impede flow.

When an excess of earth material results from cutting the diversion to the cross section and grade, it shall be deposited adjacent to the diversion without blocking surface runoff from reaching the diversion, or another designated area where fill is needed. All disturbed areas should be seeded according to Specification PA342, Critical Area Planting, or as otherwise specified in Section 7 of this specification.

6. LEVEL SPREADER

Where specified, a level spreader shall be constructed on zero percent grade to insure uniform spreading of sediment-free runoff (converting channel flow to sheet flow). Level spreaders shall be constructed on undisturbed soil (not on fill).

A geotextile erosion stop shall be placed vertically and at least six inches deep in a slit trench one foot back of the level lip and parallel with the lip. This erosion stop shall extend the entire length of the level lip and after backfilling with tamped soil the geotextile shall be trimmed so that the upper edge is

flush with the soil surface. The entire level lip area shall be protected by placing two overlapping strips of jute or excelsior protective material.

Storm runoff converted to sheet flow shall outlet onto stabilized areas. Water shall not be concentrated immediately below the point of discharge.

7. ADDITIONAL CONDITIONS WHICH APPLY TO THIS PROJECT ARE: