

**NATURAL RESOURCES CONSERVATION SERVICE**  
**Wyoming**  
**CONSTRUCTION SPECIFICATIONS**  
**FOR**  
**TERRACE**

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(Owner/Operator)

(Project Title)

**GENERAL**

Installation shall be in accordance with an approved design and plan. Details of construction shown on the drawings but not included herein are considered as a part of this specification. Construction activities shall be in accordance with applicable OSHA regulations.

**SITE PREPARATION**

Area to be occupied by the embankment shall be cleared of all straw and debris prior to the placement of the fill.

All channel banks and sharp breaks shall be sloped to no steeper than 1 horizontal to 1 vertical.

Loose earth shall not be left on the foundation area to a depth in excess of 6 inches above undisturbed foundation material. The surface of the foundation area shall be thoroughly scarified before placement of the embankment material.

**COMPACTED EARTHFILL**

The moisture content of fill material shall be maintained within the range required, to limit the adherence of the fill material to the treads and tracks of equipment and ensure the crushing and blending of the soil clods. Generally when soil material is squeezed in the hand it will retain a ball shape, but there will not be free water on the surface.

The fill material shall be placed in horizontal lifts not to exceed the thickness specified for the method of compaction.

Compaction shall meet the requirements of the method designated and described below:

1. Sheepsfoot roller – The maximum layer thickness shall be 8 inches before compaction. The roller shall have staggered, uniformly spaced tamping feet and be equipped with suitable cleaners. The weight of the roller shall be not less than 2,500 pounds per foot of width. The maximum speed of the compaction equipment shall be 3 miles per hour. The entire surface of each layer placed shall receive six passes of this equipment to attain the necessary compaction. Adjustment in the number of passes may be necessary during construction.
2. Pneumatic tired equipment – The maximum layer thickness before compaction shall be six inches. A loaded scraper or wheel tractor may be considered a pneumatic roller. The wheels of this equipment must pass over 95 percent of the surface of each lift before a new lift is placed.
3. Track laying equipment (Bulldozer) – The maximum layer thickness compaction shall be 4 inches. The tracks of the equipment must pass over 95 percent of the surface of each lift before a new lift is placed.

Compliance with compaction requirements will be determined by observation of performance for methods 1, 2, and 3. Fill not meeting the specified requirements shall be reworked or removed and replaced with acceptable fill.

