

**SECTION 02812****PLACING SALVAGED TOPSOIL****02812.01 GENERAL****A. Description**

Placing salvaged topsoil shall include, but not necessarily be limited to, the preparation of surfaces to be covered with salvaged topsoil, and the loading, hauling, placing, and spreading over these surfaces of the salvaged topsoil obtained from existing stockpiles, and the application of lime, weed control, and/or soil amendments in accordance with the Contract Documents.

**B. Related Work Included Elsewhere**

1. Protection of the environment; Section 01500.
2. Salvaged topsoil; Section 02811.
3. Turf establishment; Section 02820.

**C. Quality Assurance**

The Engineer may inspect the material as it is being placed to determine that the material meets the requirements specified herein and in Section 02813.02.

**D. Submittals**

None.

**02812.02 MATERIALS****A. Materials Furnished by the County**

The County will not furnish any additional materials for placing salvaged topsoil other than those materials which are available within the excavation and grading limits of the project site as designated on the Plans by sections, guidelines, spot elevations, and/or contour lines, or as specified.

**B. Contractor's Options**

The Contractor may furnish topsoil meeting the material requirements in Section 02813.02 of a quantity equal to that indicated in the Proposal for placing salvaged topsoil in lieu of salvaging topsoil from the site at no additional cost to the County over that bid in the Proposal for placing

salvaged topsoil. No additional compensation will be made for disposal of material resulting from the Contractor's decision not to salvage on-site topsoil for use on the project.

**C. Detailed Material Requirements**

1. Lime and other soil amendments shall be as specified in Section 02820.02.
2. Materials for salvaged topsoil shall be as specified in Section 02811.02.

**02812.03 EXECUTION**

**A. General**

Immediately before the start of hauling operations, all grass, weeds, brush, stumps, and other objectionable material shall be removed from the stockpile from which the topsoil is to be obtained.

**B. Equipment and Methods of Operation**

1. Equipment and methods of operation shall avoid the lifting of subsoil or other unsuitable material with the topsoil. If topsoil is removed from stockpiles in excess of the amount necessary to complete this item, it shall be returned to the stockpile.
2. During hauling operations, roadway surfaces shall be kept clean. Any topsoil or other material brought upon any roadway surface shall be removed promptly and thoroughly before it becomes compacted by traffic.

**C. Surface Preparation**

The Contractor shall completely prepare the surface of all areas to be covered with topsoil under this item and finish them to the lines indicated on the Plans and parallel to the proposed finished grade. The surfaces shall be free from rock or other foreign material which is 1-1/2 inches or greater in any dimension. Immediately before being covered with topsoil, the prepared surface shall be raked or otherwise loosened. Before placing the topsoil, all construction work in the area shall have been completed.

**D. Placing and Spreading**

1. Topsoil shall be placed and spread over the areas designated to a depth that, after natural settlement, the completed work shall be in accordance with the thickness, lines, grades, and elevations shown on the Plans.
2. After spreading the salvaged topsoil, all large stiff clods, hard lumps, large rocks, roots, stumps, litter, or other foreign matter shall be raked up, removed from the topsoiled area, and disposed of by the Contractor. Lime, weed control, and soil amendments shall be added as specified in Section 02820.03 or Section 02830.03.

This work shall be completed in a manner that will permit seeding or planting, without additional soil preparation.

3. When topsoil is placed on slopes on which the characteristics of the subsoil are such that it will blend with the topsoil, the Contractor shall work the topsoil into the subsoil by means approved by the Engineer to eliminate any semblance of a slip-plane between the two materials and leave a sufficient cover of topsoil to insure germination of the seed.
4. Where subsoils on slopes are of a character that will not blend with the topsoil, the Contractor shall roughen, ridge, or serrate the subsoil to provide a bond for the topsoil until the seeds can germinate and develop roots into the subsoil.
5. At the written direction of the Engineer, topsoil may be omitted from slopes where its use is not necessary or advantageous.
6. The Contractor shall maintain the specified depth of topsoil from the time it is placed until seeding and securing of mulch are completed.

**E. Temporary Shutdown**

If soil or weather conditions are unsuitable, as determined by the Engineer, the Contractor shall cease placing topsoil until permission to resume topsoil operations is obtained from the Engineer.

**02812.04 METHOD OF MEASUREMENT**

**A. General**

Measurement for placing salvaged topsoil will be made on the basis of volume by one of the following methods as determined by the Engineer to be appropriate.

**B. Average End Area**

Measurement for salvaged topsoil will be made in its original stockpiled position by the method of original and final cross sections and computed by the Method of Average End Areas.

**C. Struck Load**

Measurement for salvaged topsoil will be made by the volume of struck loads of known volume. All vehicles shall be loaded to at least their water level capacity. Heaping will be permitted providing the minimum volume is obtained.

**02812.05 BASIS OF PAYMENT**

Payment for placing salvaged topsoil will be made for the number of cubic yards of topsoil placed in accordance with these Specifications as determined by the methods stipulated in Section 02812.04. The price bid shall include all labor, material (including lime, weed control, and soil amendments required by the Specifications), equipment, and incidentals necessary to complete the work as specified.

In the distribution of topsoil and related materials, the Contractor shall take into consideration the characteristics of the subsoils and/or slopes. No extra compensation will be made for preparing sloped surfaces for topsoil.

Any increase or decrease in the amount of this item as a result of characteristics of the subsoil and/or the slopes, will not be considered a justifiable basis for a claim for additional compensation.