

SP-096026  
(NEW)



Iowa Department of Transportation

**SPECIAL PROVISIONS**

**FOR**

**AMENDED SOIL**

Johnson County

STP-U-5557(615)--70-52

Effective Date

April 20, 2010

**THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SERIES OF 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS. THESE ARE SPECIAL PROVISIONS AND SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS**

## **PART 1 GENERAL**

### 1.01 SUMMARY

#### A. Section Includes:

1. All labor, materials, equipment, and supervision required to furnish and install the amended soil to finished grade for landscape plantings, as shown on the Plan Sheets.
2. The material and work specified in this section includes: topsoil, organic mater, sand, and all other items of pertinence necessary to provide, install and grade the amended soil as detailed herein and on the plans.

### 1.02 MEASUREMENT AND PAYMENT

- A. The Amended Soil for landscape plantings, as indicated on the plans, complete-in-place and accepted, will be measured by cubic yard quantity for finished quantity. Quantity is calculated by the depths and areas shown on plans. Shrinkage factor shall be considered incidental. Topsoil for inclusion in the Amended Soil mix should be included in this quantity. Contractor will be paid for plan quantity.
- B. The Amended Soil for landscape plantings measured as provided above will be paid for at the cubic yard price bid, which shall be full compensation for furnishing all equipment, materials, and all other work necessary or incidental to the construction of the complete Amended Soil, for landscape plantings, and for all equipment, tools, labor, and incidentals necessary to complete the work.

### 1.03 QUALITY ASSURANCE

- A. Codes and Standards: Perform work in accordance with applicable requirements of the Iowa DOT Standard Specifications for Highway and Bridge Construction, Series 2001, and all local and state codes and ordinances.

## **PART 2 PRODUCTS**

### 2.01 MATERIALS

- A. Topsoil will be pliable loam, typical of cultivated topsoils of the locality. Secure from naturally well-drained areas. Use satisfactory soil materials with highly organic content capable of sustaining turf grass and landscape plants. Stockpiled topsoil shall be free of admixture of subsoil, and free from weed seeds, harmful insects, and clay lumps, stone, or other debris greater than 1" in diameter. Topsoil to have pH value of minimum 5.4 and maximum 7.0.
- B. Organic matter: A product of peat moss, compost, or locally available organic waste. Organic matter should be free from debris, weed seeds, and insects or diseases which may be harmful to the intended planting.
- C. Sand: Concrete sand, having a fineness modulus (FM) between 1.8 and 2.5.

## **PART 3 EXECUTION**

- 3.01 SHRUB, TREE, AND PERENNIAL PLANT BED PREPARATION – INPLACE MIXING OF AMENDED SOIL
- A. Excavate planting beds to a suitable depth to allow for the finished settled depths as noted in the drawings.
  - B. Loosen surface of subgrade to minimum two-inch (2") depth to insure a positive bond between subgrade and topsoil.
  - C. Do not place finish topsoil until after clean up and removal of construction debris, trash, surplus materials, and equipment from project site.
  - D. In perennial and shrub planting beds, place and spread topsoil to a uniform eight-inch (8") settled depth.
  - E. Where topsoil is spread, use a cultipacker, pulverizer, or similar tool to pulverize the soil and eliminate all lumps. Do not compact topsoil.
  - F. On a clean topsoil surface, add three inches (3") of organic matter and one inch (1") of sand and till the amendments through the entire depth of topsoil.
  - G. Provide a twelve inch (12") settled depth of amended soil in all shrub and perennial plant beds. Provide backfill for tree root balls as shown on the plans.
  - H. Finish grade plant bed areas as shown on the Drawings.
  - I. Positively drain all sod and planting areas to designated surface water collection points, streets, and/or waterways.
- 3.02 SHRUB, TREE AND PERENNIAL PLANT BED PREPARATION – OFF SITE MIXING OF AMENDED SOIL
- A. Amended Soil shall be mixed with the ratios of topsoil, organic matter, and sand as described in 3.01.
  - B. Planting beds shall be prepared and amended soil placed as described in 3.01.
- 3.03 FINISH GRADING
- A. Prepare finish grade for planting with only light raking or scarifying required.
  - B. Round finished surfaces at abrupt changes in slope.
  - C. Should spot elevations for finished grades conflict with finished contours, the spot elevations shall govern.
  - D. Finished grades to uniform levels or slopes between points where levels are given or between such points and existing grades.
  - E. Positively drain all sod and planting areas to designated surface water collection points, streets, and/or waterways.

- F. Protect paving, sidewalks, utilities, and plants during finish grading; repair or replace any items damaged by construction operations at no cost to Owner. Equipment that may leave black tire marks should not be driven on sidewalk or paver areas, or marks must be removed, without damage to walks or pavers, prior to project acceptance.
- G. After placement, maintain surfaces to indicated finished grades; deposit additional topsoil or amended soil to repair settlement or erosion up to the date of final acceptance. Scarify surfaces upon which additional topsoil is to be deposited.

### 3.04 MAINTENANCE

- A. Protection of graded areas:
  - 1. Protect newly graded areas from traffic and erosion.
  - 2. Keep free of trash and debris.
  - 3. Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerances.
  - 4. Keep public streets clean from soil, soil tracking, and debris at all times.
- B. Reconditioning Compacted Areas: Where completed graded areas are disturbed by subsequent construction operations, erosion or adverse weather, scarify surface, re-shape, and compact to required density prior to further construction at no cost to the Owner.
- C. Settling: Where settling is measurable or observable during general project warranty period, add topsoil or amended soil, compact, and replace surface treatment. Restore appearance, quality, and condition of surface or finish to match adjacent work, and eliminate evidence of restoration at no cost to the Owner.

### 3.05 DISPOSAL OF EXCESS AND WASTE MATERIALS

- A. Remove waste materials, including unacceptable excavated material, trash, and debris from the job site.

END OF SECTION 02923