



Iowa Department of Transportation

SPECIAL PROVISION FOR AMENDED SOIL

Clinton County
NHSX-030-9(134)--3H-23

Effective Date
January 18, 2012

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

PART 1 GENERAL.

1.01 SUMMARY.

A. Section includes:

1. This part of the Specification includes all labor, materials, equipment, and supervision required to prepare perennial plant beds and to provide, furnish and install amended soil.
2. This section includes the specifications for perennial plant bed preparation, soil amendment materials and the preparation and installation of amended soil.

1.02 MEASUREMENT AND PAYMENT.

- A. Basis of Measurement: The Engineer will measure the surface area of installed AMENDED SOIL and based upon the required depth of finished AMENDED SOIL, the Engineer will compute the CUBIC YARDS of installed AMENDED SOIL.
- B. Basis of Payment: Payment for AMENDED SOIL includes all labor, materials, equipment, and supervision required for plant bed preparation and providing furnishing and installing amended soil.
- C. Unit Price for AMENDED SOIL will include plant bed preparation, furnishing all amended soil materials, mixing and installing amended soil at locations shown on the plans

1.03 QUALITY ASSURANCE.

- A. General: Ship materials with certificates of inspection required by governing authorities. Comply with regulations applicable to landscape materials. Obtain any necessary permits for this work and pay any fees required for permits.
- B. Analysis and Standards: Package standard products with manufacturer have certified analysis. For other materials, provide analysis by recognized laboratory made in accordance with methods established by the Association of Official Agriculture Chemists, wherever applicable.
- C. Substitutions: If specified materials are not obtainable, submit proof of non-availability, together with proposal for use of equivalent material in compliance with Iowa DOT specifications.

1.04 SUBMITTALS.

- A. Topsoil samples.
- B. Sample of amended soil materials – organic matter and sand.
- C. Material data for soil materials- organic matter and sand

1.05 DELIVERY, STORAGE, AND HANDLING.

- A. Delivery: Deliver packaged materials in containers showing weight, analysis, and name of manufacturer.
- B. Storage and Handling: Protect materials from deterioration during delivery, and while stored at site.

PART 2 PRODUCTS.

2.01 TOPSOIL.

- A. Use approved imported topsoil. Topsoil shall be high quality soil consisting of the top 6 inches of field or pasture loam containing a good supply of humus and a high degree of fertility. Surface soil from ditch bottoms, drained ponds, and eroded areas, or soils which are supporting growth of noxious weeds or other undesirable vegetation will not be accepted. Topsoil shall have a pH value from 6.0 to 7.5. It shall be free from hard clods, rocks, and other debris larger than 2 inches in diameter.
- B. Topsoil will be dry, loose, and free of debris.

2.02 SOIL AMENDMENT MATERIALS.

- A. Organic matter: A product of compost or locally available organic waste.
- B. Organic matter should be odor free and free from debris, weed seeds, and insects or diseases which may be harmful to plants, animals and humans.
- C. Sand: Concrete sand, having a fineness modulus (FM) between 1.8 and 2.5.

PART 3 EXECUTION.

3.01 PLANT BED PREPARATION.

- A.** Dig a 12 inch diameter by 12 inch deep hole at each plant bed area and fill the hole with water. If the hole drains within 24 hours, proceed as follows:
 - 1.** Scarify the subgrade of plant bed areas.
 - 2.** Add a uniform, 8 inch depth of topsoil to all plant bed areas.
 - 3.** If topsoil is allowed to grow vegetation prior to the addition of soil amendments, strip and remove surface vegetation from plant bed areas.
 - 4.** On the clean topsoil surface, add 4 inches of organic matter and 1 inch of sand and till the amendments to a depth of 10 inches.
 - 5.** In mixing amendments and topsoil, do not till the subgrade.
- B.** Where holes do not drain and hardpan exists, advise the Engineer of site conditions before placement of topsoil.
 - 1.** Deeper plant bed preparation and drainage tile may be required.
 - 2.** If required and approved, deeper plant bed preparation and drainage tile will be considered extra work and the Contractor will be asked to prepare a proposal request for the extra work.

3.02 REPAIR AND CLEAN-UP.

- A.** Make all necessary repairs to grades, lawns, and paving required because of plant bed and amended soil preparation and installation. Such repairs will be done at no extra cost to the Contracting Authority.
- B.** Remove all excess materials and debris from the job site.