

SECTION 32 92 19

SEEDING AND SODDING

PART 1 – GENERAL

1.01 WORK INCLUDED

- A. This work shall be performed in all areas disturbed by the construction activities under this contract, and shall include, but not necessarily be limited to, all seed bed preparation; the supplying and placing of soil additives, seed, and mulch wherever required by the drawings or directed by the A/E; and maintenance.
- B. No separate payment shall be made for material or work under this section. All costs shall be included in the bid items to which the work pertains.
- C. Unless otherwise approved in writing by the A/E, seeding operation shall be limited to the following planting periods:
 - 1. Fall: August 15 through November 15: FESCUE
 - 2. Spring: February 15 through May 15: FESCUE
 - 3. Summer: May 15 through August 15: BERMUDA
- D. Refer to other sections for items affecting seeding. Coordinate this work with that specified by other sections for timely execution.

1.02 MEASURE AND PAYMENT

- A. No separate payment shall be made for material or work under this section. All costs shall be included in the bid items to which the work pertains.

1.03 REFERENCES/STANDARDS

- A. Guideline Specifications to Turf Grass Sodding, American Sod Producers Association (ASPA), 1988.
- B. Where reference is made to American Society for Testing and Materials Specifications (ASTM), these specifications, referenced numbers only, are made a part of the specification as if herein reproduced.

PART 2 – PRODUCTS

2.01 GRASS SEED

- A. Turf Type Tall Fescue (The Hogan Blend - Hound Dog VIII, Cochise IV, LS1200 and Hot Rod) or equal, meeting the requirements of the State Department of agriculture and furnished in new bags or bags that are sound and not mended; no below standard seed accepted.
- B. Bermuda (Mirage II - Hulled) meeting the requirements of the State Department of Agriculture and furnished in new bags or bags that are sound and not mended; no below standard seed accepted.
- C. A certificate of purity for all seed will be submitted to the Owners Representative. Samples of materials may be requested for verification of purity at the discretion of the Owner's Representative.

- D. Annual Rye grass shall not be applied.

2.02 FERTILIZER

- A. Commercially manufactured.
- B. Grade 10-10-10.
- C. Furnished in standard containers that are clearly marked with the name, weight, and guaranteed analysis of the contents and that ensure proper protection in transportation and handling.
- D. In compliance with all local, state, federal fertilizer laws.
- E. Apply fertilizer at time of seeding.

2.03 AGRICULTURAL LIMESTONE

- A. Containing a minimum of 85% calcium carbonate and magnesium carbonate combined, 85% of which passes a No. 10 mesh sieve.

2.04 MULCH

- A. Stalks of rye, oats, wheat, or other approved grain crops properly cured prior to baling, air-dried.
- B. Reasonably free of noxious weeds and weed seeds or other material detrimental to plant growth.
- C. Mulch Fescue seed, but DO NOT mulch Bermuda seed.

2.05 PLANTING MATERIALS

- A. Topsoil
 - 1. Topsoil may be that from the site.
 - 2. Topsoil that may be required to be furnished shall be natural, fertile, friable, productive soil, neither excessively acid nor alkaline, and free from toxic substances, stones, weeds, clay, clods, roots, cinders, and debris.
- B. Sand: Sand shall be clean, sharp, and free from admixtures that might inhibit plant growth.

2.06 EROSION CONTROL MATS

- A. Jute mesh or excelsior mats.
- B. Wire staples: Staples made from 11-gauge steel wire, bent to a long "U" shape with length determined by conditions.
- C. Roll-Lite matting.
- D. Use mats when slopes meet or exceed 3:1.

PART 3 – EXECUTION

3.01 PREPARATION

- A. Perform all seeding and related work as a continuous operation. Sow seed as soon as the seedbed has been prepared, and perform subsequent work in a continuous manner.

- B. Before beginning seeding operations in any area, complete the placing of topsoil and final grading, and have the work approved by the A/E.
- C. Scarify, disk, harrow, rake, or otherwise work each area to be seeded until the soil has been loosened and pulverized to a depth of not less than 2 inches. Perform this work only when the soil is in a tillable and workable condition.
- D. Apply fertilizer and agricultural limestone uniformly over the seed bed, and lightly harrow, rake, or otherwise incorporate them into the soil for a depth of approximately 1 inch at the following rates:
 - 1. Fertilizer: 10 pounds per 1,000 square feet.
 - 2. Agricultural Limestone: 50 pounds per 1,000 square feet. (Only if soil test proves it is necessary).

3.02 SOWING

- A. Sow seed uniformly with a rotary seeder, wheelbarrow seeder, or hydraulic equipment or by other satisfactory means.
 - 1. The seeding rate shall be 8-10 pounds per 1,000 square feet for Fescue.
 - 2. The seeding rate shall be 1 pound per 1,000 square feet for Bermuda (Mirage II - Hulled) or 2 pounds per 1,000 square feet for Bermuda (Mirage II - Coated). When seeding during March 1 through April 1 and October 1 through October 31, add an additional 3 pounds per 1,000 square feet of annual rye grass.
- B. Perform no seeding during windy weather or when the ground surface is frozen, wet, or otherwise untillable.
- C. When seeding with mulch is specified, spread the mulch material evenly over the seeded areas immediately following the seeding operation.
 - 1. Mulch rate: 20 to 40 bales (100 pounds minimum) per 1 acre or 1 bale per 1,000 square feet.
 - 2. Do not mulch Bermuda seed.
- D. No equipment, material storage, construction traffic, etc., will be permitted on newly seeded ground.
- E. Dispose of all surplus materials as directed by the Owner.

3.03 SOD

- A. All sod shall be Bermuda. (See Plant Schedule for sod type)
- B. Sod shall be of species indicated, 95 percent purity, strongly rooted with good, fertile earth base, and free from pernicious weeds, stones, debris, fungus, vermin, and disease.
- C. Mow sod to be used with a lawn mower at least three times, with final mowing not more than 7 days before sod is cut and lifted.

3.04 INSPECTIONS

- A. The A/E shall inspect the seeding/sodding within 60 days after planting and determine if it is acceptable.

3.05 GUARANTEE

- A. Secure an acceptable growth of grass in all areas designated for seeding.

- B. An area is considered acceptable if it is represented by a minimum of 100 seedlings per square foot of the permanent species of grass representative of the seed mixture. If an acceptable growth is not obtained on the first planting, reseeding and re-mulching will be required.
- C. If the planting is less than 80% successful, rework the ground, fertilize, reseed, and mulch.

END OF SECTION