

SECTION 02921

HYDROMULCH SEEDING

PART 1. GENERAL

1.01 SECTION INCLUDES

- A. Spray-applied Wood fiber for [hydro mulching.], fertilizing, and maintenance of areas indicated on Drawings

1.02 MEASUREMENT AND PAYEMENT

A. Unit Prices

- 1. Payment for hydro mulch seeding is per acre.
- 2. Refer to Section 01270 – Measurement and Payments for unit price procedures

- B. Stipulated Price (Lump sum) If Contract is Stipulated Price Contract, payment for work in this section is included in the total Stipulated Price.

1.03 REFERENCES

- 1. Section 01570 – Storm Water Pollution Control.
- 2. Section 01740 – Site Restoration
- 3. Section 02911 – Top Soil

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions. Include required substrate preparation, list of materials, and application rate.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from weather, excessive temperatures, and construction operations.

PART 2. PRODUCTS

2.01 MATERIALS

A. Seeds

1. All seed must meet the requirements of the Texas Seed Law including the labeling requirements for showing purity, germination, name and type of seed. Seed furnished shall be of the previous season's crop for the date of the project.
2. Each variety of seed shall be furnished and delivered in separate bags or containers. A sample of each variety shall be furnished for analysis and testing when directed by the Engineer.
3. The amount of seed planted per acre shall be of the type specified below and shall equal or exceed the following percentages for purity and germination or an equivalent amount of pure live seed.

- a. Common Name: Bermuda and Giant Bermuda grass (hulled)
- b. Scientific Name: Cynodon Dactylon
- c. Purity: 95%
- d. Germination: 90%
- e. Annual Rye grass will be free of Johnson grass, field bind weed, dodder seed, and free of other seed to the limits allowable under the Federal Seed Act and applicable State Seed Laws.
- f. Annual Rye grass will be added into slurry between October 1 through March 15. No additional cost will be charged to the City.

B. Wood Fiber Mulch: Terra-Mulch Wood fiber with UltraGro by PROFILE Products LLC with the following characteristics:

1. Materials: 100% wood fiber, dark green marker dye.
2. UltraGro Biostimulant: Trace amount of cold water processed Ascophyllum Nodosum (seaweed extract).
3. pH Range: 4.8 +-2.
4. Moisture Content: 12+-3% percent maximum.
5. Organic Content: 99.2%+- .4.
6. Ash Content: .8%+- .4.
7. Water Holding Capacity: 1200% percent minimum.

8. Packaging: 40 pound UV resistant bags, with UV resistant pallet cover.

C. Unacceptable Material is paper/cellulose mulch

PART 3. EXECUTION

3.01 SUBSTRATE PREPARATION

- A. Examine substrates and conditions where materials will be applied. Do not proceed with installation until unsatisfactory conditions are corrected, only apply product to geotechnically stable slopes that have been designed and built to divert the water shed away from the face of the slope, therefore eliminating surface flow energy from above from damaging the slope face.

3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations. Use approved hydro-spraying machines. Do not exceed maximum slope length of 25 feet when slope gradients are steeper than 4 to 1. Install materials at the following application rate:

1. Hydro-Seeding: Add 30 to 50 pounds of Terra-Mulch Wood fiber per 100 gallons of water when hydroseeding; confirm loading rates with equipment manufacturer.
 - a. Mod to 4 to 1 Slope: 1500 pounds per acre.
 - b. 3 to 1 Slope: 2000 pounds per acre.
 - c. 3:1 to 2:1 Slope: 2500 pounds per acre.

3.03 CLEANING AND PROTECTION

- A. Clean spills promptly. Advise Owner of methods for protection of sprayed areas.

3.04 ACCEPTANCE

- A. Acceptance of hydromulching lawn as herein specified shall be based on a uniform stand of grass and a uniform grade at the time of final inspection. Area of two square feet or more that are bare or have a poor stand of grass and area not having a uniform grade for any cause before final inspection shall be regraded, rehydromulched and reseeded as specified at the Contractor's expense

END OF SECTION