
**SECTION 02910
HYDROMULCH SEEDING**

PART I: GENERAL

1.1 GENERAL REQUIREMENTS

- A. Seeding, fertilizing, mulching and maintenance of areas indicated on the Drawings.

1.2 MEASUREMENT AND PAYMENT

- A. Unit Prices:
 - 1. Payment for Hydromulch seeding is on an acre basis.
 - 2. Refer to Section 01270 – Measurement and Payment for unit price procedures.
- B. Stipulated Price (Lump Sum):
 - 1. If Contract is Stipulated Price Contract, payment for work in this Section is included in Total Stipulated Price.

1.3 SUBMITTALS

- A. Conform to requirements of Section 01330 – Submittal Procedures.
- B. Submit certification from supplier that each type of seed conforms to these Specifications and requirements of Texas Seed Law. Certification shall accompany seed delivery.
- C. Submit certificate stating that fertilizer complies with these Specifications and requirements of Texas Fertilizer Law.

1.4 REFERENCES

- A. CFTS – City of Friendswood Technical Specifications.
- B. Texas Seed Law.
- C. USDA – United States Department of Agriculture rules and regulations of Federal Seed Act.

PART II: PRODUCTS

2.1 MATERIALS

- A. Topsoil: Conform to material requirements of Section 02905 – Topsoil.
- B. Seed: Conform to U.S. Department of Agriculture rules and regulations of Federal Seed Act and Texas Seed Law. Seed shall be certified ninety percent (90%) pure and furnish ninety percent (90%) germination and meet following requirements:
 - 1. Rye: Fresh, clean, Italian rye grass seed (*lollium multi-florum*), mixed in labeled proportions. As tested, the minimum percentages of impurities and germination must be labeled. Deliver in original unopened containers.
 - 2. Bermuda: Extra-fancy, treated, lawn type common Bermuda

02910-1

- (Cynodon dactylon). Deliver in original, unopened container showing weight, analysis, name of vendor and germination test results.
3. Wet, moldy or otherwise damaged seed shall not be accepted.
 4. Seed requirements, application rates and planting dates are as specified in TABLE 4.1 – SEEDING CONDITIONS in this Section.
- C. Fertilizer: Dry and free flowing, inorganic, water soluble commercial fertilizer, which is uniform in composition. Deliver in unopened containers which bear manufacturers guaranteed analysis. Caked, damaged or otherwise unsuitable fertilizer shall not be accepted. Fertilizer shall contain the minimum percentages of elements as specified in TABLE 4.2 – MINIMAL FERTILIZER ELEMENTS in this Section.
- D. Mulch:
1. Virgin wood cellulose fibers from whole wood chips having a minimum of twenty percent (20%) fibers forty-two hundredths inches (0.42 In) in length and one hundredth inch (0.01 In) in diameter.
 2. Cellulose fibers manufactured from recycled newspaper and meeting same fiber content and size as for cellulose fibers from wood chips.
 3. Dye mulch green for coverage verification purposes.
- E. Soil Stabilizer: "Terra Tack 1" or approved equal.
- F. Weed control agent: Pre-emergent herbicide for grass areas, such as "Benefin," or approved equal.

PART III: EXECUTION

3.1 PREPARATION

- A. Place and compact topsoil in accordance with requirements of Section 02905 – Topsoil.
- B. Dispose of Objectionable and Waste Materials in accordance with Section 01580 – Waste Material Disposal.

3.2 APPLICATION

- A. Seed: Apply uniformly at rates given in TABLE 4.1 – SEEDING CONDITIONS in this Section, for type of seed and planting date.
- B. Fertilizer: Apply uniformly at rate of five hundred pounds (500 Lbs) per acre.
- C. Mulch: Apply uniformly at rate of fifty pounds (50 Lbs) per one thousand square feet (1000 Sf).
- D. Soil Stabilizer: Apply uniformly at rate of forty pounds (40 Lbs) per acre.
- E. Weed Control Agent: Apply at manufacturer's recommended rate prior to hydro mulching.
- F. Sod: Lay single row of sod along perimeter where top soil and pavement

02910-2

intersect. Apply in conformance to Section 02915 – Sodding.

- G. Suspend operations under conditions of drought, excessive moisture, high winds or extreme or prolonged cold. Obtain the Project Manager’s approval before resuming operations.

3.3 MAINTENANCE

- A. Maintain grassed areas for a minimum of ninety days (90 D) or as required to establish an acceptable lawn. For areas seeded in fall, continue maintenance following spring until acceptable lawn is established.
- B. Maintain grassed areas by watering, fertilizing, weeding and trimming.
- C. Repair areas damaged by erosion by re-grading, rolling and replanting.
- D. Reseed small, sparse grass areas. When sparse areas exceed ten percent (10%) of planted area, reseed by hydro mulch.
- E. Mow grass when height reaches three and one-half inches (3-1/2 In) or greater on average before final acceptance. Mow to height of two and one-half inches (2-1/2 In).

PART IV: TABLES

4.1 SEEDING CONDITIONS

GRASS SEEDING CONDITIONS		
TYPE	APPLICATION RATE lbs/ac	PLANTING DATE
Hulled Common Bermuda 88/98	40	Jan 1 to Mar 31
Unhulled Common Bermuda 88/98	40	
Hulled Common Bermuda 88/98	40	Apr 1 to Sep 30
Hulled Common Bermuda 88/98	40	Oct 1 to Dec 31
Unhulled Common Bermuda 88/98	40	
Annual Rye Grass (Gulf)	30	

4.2 MINIMAL FERTILIZER ELEMENTS

MINIMAL FERTERLIZER ELEMENT PERCENTAGES	
ELEMENT	PERCENTAGE
Nitrogen	10%
Phosphoric Acid	20%
Potash	10%

END OF SECTION

02910-3