

**ITEM 610.0204--25 - ESTABLISHING LAWN**

**1. DESCRIPTION:**

- 1.01 The work shall consist of preparing the soil, seeding, fertilizing, mulching, watering, and maintaining a lawn at the locations indicated on the plans.

**2. MATERIALS:**

**2.01 SEED:**

- A. Furnish fresh, clean, new-crop seed mixed in the proportions specified for species and variety, and conforming to Federal and State Standards.
- B. Acceptable material in a seed mixture other than pure live seed consists of nonviable seed, chaff, hulls, live seed of crop plants and inert matter. The percentage of weed seed shall not exceed 0.1 percent by weight.
- C. All seed will be rejected if the label or test analysis indicates any of the following contaminates: Timothy, Orchard Grass, Sheep Fescue, Meadow Fescue, Canada Blue Grass, Alta Fescue, Kentucky 31 Fescue and Bent Grass.
- D. Provide one of the following seed mixtures:

**SEED MIXTURE A:**

| Amount<br>by Weight<br>in Mixture | Species or Variety        | Percentage |             |
|-----------------------------------|---------------------------|------------|-------------|
|                                   |                           | Purity     | Germination |
| 55 % (Min)                        | Kentucky Bluegrass Blend* | 95 %       | 80 %        |
| 25 % (Min)                        | Fine Fescue Blend*        | 97 %       | 80 %        |
| <u>20 % (Max)</u>                 | Perennial Rye**           | 98 %       | 85 %        |
| 100 %                             |                           |            |             |

**SEED MIXTURE B:**

| Amount<br>by Weight<br>in Mixture | Species or Variety        | Percentage |             |
|-----------------------------------|---------------------------|------------|-------------|
|                                   |                           | Purity     | Germination |
| 65 % (Min)                        | Fine Fescue Blend*        | 97 %       | 80 %        |
| 15 % (Min)                        | Kentucky Bluegrass Blend* | 95 %       | 80 %        |
| <u>20 % (Max)</u>                 | Perennial Rye**           | 98 %       | 85 %        |
| 100 %                             |                           |            |             |

\* Each blend of Bluegrass or Fescue shall have approximately equal proportions of 2 or more improved varieties as listed in the Cornell Recommendations for Turf grass.

\*\* One or more of the improved Rye grass varieties as listed in the Cornell Recommendations for Turf grass.

## **ITEM 610.0204--25 - ESTABLISHING LAWN**

### **2. MATERIALS:** (cont'd)

#### **2.02 FERTILIZER**

- A. Fertilizer: Commercial (5-10-5) inorganic, or organic, containing not less than 5 % nitrogen, 10 % available phosphoric acid and 5 % water soluble potash.
- B. Other fertilizers with a 1-2-1 ratio such as 10-20-10 or 6-12-6 may be substituted for above.

#### **2.03 MULCH**

- A. Dry Application, Straw: Stalks of oats, wheat, rye, or other approved crops which are free of noxious weed seeds. Weight shall be based on a 15% moisture content.
- B. Hydro Application: Colored wood cellulose fiber product specifically designed for use as hydro-mechanical applied mulch, such as Conwed Hydro Mulch, Conwed Fibers, 231 4th Street SW, Hickory, NC, or equal. Weight shall be based on 10 % moisture content.
- C. Jute Mesh: Heavy jute erosion cloth in rolls such as supplied by Jute Products, Inc., South 5th Street, Brooklyn, NY or equal. Wire Staples used to hold down the jute mesh shall be twelve (12) inch lengths of No. 11 gage wire bent to form a "U" or other wire staples as approved by the Engineer.

#### **2.04 SUBMITTALS**

- A. Seed: Provide a one pound sample of seed in vendor's unopened package with label and seed analysis. After acceptance of seed analysis, the Engineer shall retain the label and seed analysis. The seed may be used by the Contractor.
- B. Hydro Mulch: Provide manufacturer's catalog sheets, specifications, and application rate.

#### **2.05 QUALITY ASSURANCE**

- A. Provide prepackaged seed readily available to the public with quality and purity equal to product of O.M. Scotts and Son, Marysville, OH. On-the-job or made-to-order mixes will not be accepted.

#### **2.06 DELIVERY STORAGE AND HANDLING**

- A. Store all seed at the site in a cool dry place as approved by the Engineer. Replace any seed damaged during storage.
- B. Deliver fertilizer in manufacturer's standard size bags or cartons showing weight, analysis and the name of the manufacturer. Store as approved by the Engineer

#### **2.07 SCHEDULING**

- A. Time for Seeding: Sow grass seed between March 15th and May 15th or between August 15th and October 1st, except as otherwise approved in writing by the Director, Office of Facilities Design.

**ITEM 610.0204--25 - ESTABLISHING LAWN**

**3. CONSTRUCTION DETAILS:**

**3.01 PREPARATION**

- A. Scarify soil to a depth of 2 inches in compacted areas.
- B. Smooth out unsightly variations, bumps, ridges, and depressions which will hold water.
- C. Remove stones, litter, or other objectionable material.
- D. Seed bed preparation shall be approved by the Engineer prior to the application of any seed.

**3.02 FERTILIZING**

- A. Apply fertilizer evenly at the rate of 33 lbs. per 100 square yards or 1.15 lbs. per 100 square yards.

**3.03 SEEDING**

- A. The Contractor assumes all risks when seed is sowed before approval of seed analysis.
- B. Do not seed when the wind velocity exceeds 5 MPH.
- C. Application Rate:
  - Seed Mixture A: 4 lbs. per 100 square yards.
  - Seed Mixture B: 4 lbs. per 100 square yards.
- D. Dry application: Sow seed evenly by hand or approved machine on dry or moderately dry soil.
- E. Hydroseeding:
  - 1. Apply seeding materials with an approved hydroseeder manufactured specifically for hydroseeding.
  - 2. Fill tank with water and agitate while adding seeding materials. Use sufficient fertilizer, mulch, and seed to obtain the specified application rate. Add seed to the tank after the fertilizer and mulch have been added. Maintain constant agitation to keep contents in homogeneous suspension. Prolonged delays in application or agitation that may be injurious to the seed will be the basis of rejection of material remaining in tank.
  - 3. Distribute uniformly a slurry mixture of water, seed, fertilizer, and mulch at a minimum rate of 50 gallon per 100 square yards. The Engineer may order the amount of water increased if distribution of seeding materials is not uniform.

**3.04 MULCHING**

- A. **Dry Application:** Within 3 days after seeding, cover the seeded areas with a uniform blanket of straw mulch at the rate of 83 pounds per 100 square yards of seeded area.

**ITEM 610.0204--25 - ESTABLISHING LAWN**

**3. CONSTRUCTION DETAILS:** (cont'd)

3.04 **MULCHING** (cont'd)

- B. **Hydro Application:** Apply approved mulch in accordance with the manufacturer's written instructions and recommended rates of application.
- C. **Dry Application, Jute Mesh:** For areas sloped greater than or equal to 2 horizontal to 1 vertical, a uniform blanket of jute mesh shall be installed within 3 days after seeding. The jute mesh shall be securely fastened to the slope with wire staples spaced 18 inches on center. Do not apply straw mulch over jute mesh.

3.05 **LAWN ESTABLISHMENT**

- A. Water and maintain the grass at heights between 2 inch and 3 inch and protect all seeded areas until acceptance of the lawn.

3.06 **FINAL ACCEPTANCE**

- A. Final acceptance of lawn areas will be granted when a uniform stand of acceptable grass is obtained, with a minimum of 95 percent coverage. Portions of the lawn areas may be accepted at various times at the discretion of the Engineer.
- B. Unacceptable lawn areas, dry application: Reseed as specified and fertilized at one-half the specified rate.
- C. Unacceptable lawn areas, hydro application: Reseed, fertilize and mulch at one-half the specified rate, use full water rate.
- D. Once accepted, the Thruway will assume all maintenance responsibilities.

**4. METHOD OF MEASUREMENT:**

- 4.01 Payment will be made based on the number of square feet that has been seeded and accepted in accordance with this specification.

**5. BASIS OF PAYMENT:**

- 5.01 The price per square foot of seeding shall include all equipment, materials, and labor necessary to complete the work.