

## **DIVISION 2 - SITE WORK**

### **SECTION 02900 - LANDSCAPE RESTORATION**

#### 1. SCOPE:

The work under this section consists of furnishing all labor, materials, equipment and services necessary to protect or replace existing plants, grass, fencing, trash containers and racks, mailboxes, structures, and similar improvements. This work shall include the protection of ornamental trees and shrubs, trimming of plants damaged by Contractor's operations, replacement of seriously damaged vegetation, and re-establishment of grass in construction areas.

#### 2. PROTECTION MEASURES:

- A. The Contractor shall make every effort to avoid damage to existing trees, shrubs, flower beds, and structural improvements. Such measures shall include, but not limited to the following:
- B. Remove and replant small trees and shrubs.
- C. Remove and reinstall fences, mailboxes, planters, trash racks and similar improvement.
- D. Tie back ornamental branches that interfere with construction to avoid damage.
- E. Trim damaged branches of vegetation to improve appearance.
- F. Treat tree trunks damaged by construction or removed with an asphalt tree dressing compound.
- G. Use small rubber tired back hoes, trench boxes and special equipment in areas restricted in work space.
- H. Stripping areas of grasses normally established by sodding or sprigging such as Zoysia, hybrid Bermudagrass, St. Augustine, Bahia, Carpetgrass, etc., maintaining with proper moisture content and resodding original lawn materials.

#### 3. LAWN REPLACEMENT:

- A. The Contractor shall re-establish turf in all areas where grass existed prior to construction, and is disturbed or damaged by construction activities. Type of turf shall be equal to that existing prior to construction. The Contractor shall be required to produce a satisfactory stand of perennial grass with a root system sufficiently developed to survive dry periods and winter weather, capable of re-establishment in the spring.

- B. As soon as practicable after compaction to finish grades, all operations for grassing shall be performed. All grassing shall be scheduled for sowing with grass that is adaptable to the season.
- C. Where topsoil has previously been hauled in, it shall be restored by removal, stockpiling and replacing, or by hauling in new topsoil.
- D. Where existing sod does not permit removal and replacement, or where grass is severely injured during stripping operations and is deemed unsuitable for restoration, the Contractor shall fertilize, seed and mulch the area(s) disturbed. All seeding material shall match and/or be compatible with existing or adjacent grasses in the area planted.
- E. Each separate application of grass seeds shall be performed in accordance with NCDOT standard specifications for preparation of the seed bed and application of fertilizer, seed and mulch.
  - (1) Application rate of seed shall be such to provide a permanent stand of grass, uniformly distributed. Seeding rate and quality shall be performed in accordance with Section 02930 of these specifications. Type of seeds shall be approved by the Engineer for season and climate conditions encountered at the location.
  - (2) Fertilizer shall be 8-8-8 grade, uniform in composition and free flowing, delivered to the site in bags fully labeled and conforming to the State fertilizer laws, bearing the name and warranty of the producer.
  - (3) Lime shall be ground limestone containing not less than 85 percent of total carbonates and shall be grounded to such fineness that at least 50 percent will pass through a 100 sieve and at least 90 percent will pass through a 20 mesh sieve.
  - (4) Hay mulch shall be grain straw or other acceptable material uniformly distributed over the seed bed at a rate of 10 pounds per 100 square feet. The straw shall be held in place on all slopes exceeding 3:1 with a thin coat of asphalt emulsion or matting staked in place.
- F. Immediately following seeding, when necessary to maintain grass growth and vitality, and in any case when planting is required in dry weather, planted areas shall be watered at such rate and frequency to prevent drying out of root system. The seeded areas shall be protected against traffic or other use by erecting barricades immediately after seeding is completed when location or conditions requires such protection.
- G. The Engineer will be furnished with duplicate copies of invoices for all seed, fertilizer and lime used on the project.

END OF SECTION 02900