

## SECTION LS 659

### LANDSCAPE REPAIR

#### PART 1 – GENERAL

##### 1.1 SUMMARY

- A. This section includes the following:
  - 1. Lawns: Topsoil and grass
  - 2. Fertilizers and mulches
  - 3. Hydroseed applications
  - 4. Watering
- B. All grassed areas shall be restored per this Section.

##### 1.2 SUBMITTALS

- A. General: Submit each item in this article according to the Conditions of the Contract and Division I specification sections.

##### 1.3 QUALITY ASSURANCE

- A. Materials and construction procedures are to be approved by The City of Lakewood, in conformance with the applicable CMS Section 650, Roadsides.

##### 1.4 PROJECT CONDITIONS

- A. Utilities: Determine location of above grade and underground utilities such as sprinkler systems and perform work in a manner that will avoid damage. Hand excavate, as required. Maintain grade stakes until removal is mutually agreed upon by all parties concerned.
- B. Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions or obstructions, notify The City of Lakewood before planting.

## **PART 2 – PRODUCTS**

### **2.1 GRASS MATERIALS AND FERTILIZER**

A. Grass Seed: Clean, dry, new-crop seed complying with the Association of Official Seed Analysts' "Rules for Testing Seeds" for purity and germination tolerances.

1. Seed Mixture: CMS 659.09, Class 1, Lawn Mixture.

B. Fertilizer: CMS 659.

### **2.2 MULCH MATERIAL**

A. CMS Section 659 except that CMS 659.14 Straw or Hay Mulch is forbidden for any purpose on this project.

B. Mulch material shall consist of a green colored, organically fibrous dry applied material that adheres to the ground following wetting. This material can contain grass seed as an alternate to separately applied grass seed noted above. The Contractor shall propose a product that meets these requirements and obtain approval prior to purchase or application (Scotts "PatchMaster" is an example of a product that meets these requirements). STRAW SHALL NOT BE USED FOR MULCH.

### **2.3 TOPSOIL**

A. CMS Item 653, Topsoil Furnished and Placed.

### **2.4 HYDROSEED MATERIAL**

A. Hydroseed formula, meeting the requirements of CMS Item 659, shall be submitted by Contractor and approved by Engineer prior to placement.

## **PART 3 – EXECUTION**

### **3.1 SOIL PREPARATION**

A. Before placing grass or Hydroseed, clean topsoil of roots, plants, sods, stones, clay lumps and other extraneous materials over 1½" diameter harmful to plant growth.

- B. Mix soil amendments and fertilizers with soil at rates indicated. Delay mixing fertilizer if planting does not follow placing of planting soil within a few days.

### 3.2 LAWN PLANTING PREPARATION

- A. Granular backfill behind curbs shall be graded and compacted so that an even slope from the undisturbed tree lawn to the new curb results.
- B. Grassed areas shall be restored in kind. The Contractor shall adjust the depth of topsoil to ensure final settlement will match surrounding grade.
- C. Brick tree lawn areas shall be restored in kind.
- D. The impact of construction on private property shall be kept to an absolute minimum. Plant materials other than grass shall be carefully removed only when absolutely necessary and with enough root and soil and stored in such a way as to ensure survival during the stockpile period. The plant stockpile shall be watered daily. Subject plant materials that are destroyed or do not survive one month past the construction period shall be replaced by the Contractor in kind or as acceptable to the property owner and City at no cost to the City. Watering following re-planting shall be as required in 3.7, below. All landscaping rocks and other structures removed shall be re-installed in kind.
- E. All stumps resulting from specified tree removals shall be ground to a minimum eight (8) inches below grade, all wood and other cuttings removed and the hole backfilled with granular fill as specified herein graded with the prevailing ground surface. Three (3) inches of topsoil and grass seed shall be furnished and installed.
- F. Install three (3) inches of topsoil per CMS Item 653 and grade lawn and grass areas to a smooth even surface with loose, uniformly fine textured soils. Roll and rake, remove ridges and fill depressions to meet finish grades. Limit fine grading to areas that can be planted in the immediate future.
- G. Restore prepared areas if eroded or otherwise disturbed after fine grading and before planting.

### 3.3 MULCH MATERIAL INSTALLATION

- A. Mulch backfilled surfaces of planted areas and other areas as indicated, required or directed per CMS Section 659. Straw shall not be permitted.

### 3.4 HYDROSEED INSTALLATION

- A. Hydroseeding shall be per CMS item 659 and this Specification.
- B. Hydroseed materials shall be used in lieu of separate mulching and seeding as specified in the plans. Contractor shall submit Hydroseed formula for approval by The City of Lakewood prior to placement.

### 3.5 CLEAN-UP AND PROTECTION

- A. During landscaping, keep pavements clean and work area in an orderly condition.
- B. Protect landscaping from damage due to landscape operations, operations by other contractors and trades, and trespassers. Maintain protection during installation and maintenance periods. Treat, repair or replace damaged landscape work as directed.

### 3.6 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Disposal: Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash and debris, and legally dispose of it off the Owner's property.

### 3.7 POST-INSTALLATION WATERING AND CARE

- A. **The contractor shall thoroughly water all new plantings, grass and Hydroseed on a daily basis, beginning on the day of installation, for a period of four (4) weeks after installation.** Watering need not be done if substantial rain occurred on the previous day, the current day or on weekend or National holiday days. The contractor shall request all watering variances due to recent rain from the City's inspector. Watering shall continue until the planted area is thoroughly saturated.
- B. Water shall be obtained from fire hydrants **only with the expressed permission** of the Lakewood Division of Water (529-6820). **A permit is required (at no cost) to access the hydrants.** The Contractor must supply an adapter with a shut-off valve to convert from the Cleveland Standard threads on the Lakewood hydrants. **ONLY** the correct hydrant key shall be used. **THE HYDRANT SHALL BE OPERATED SLOWLY WHILE OPENING AND CLOSING!** Rapid hydrant operation will cause watermain breaks **THE REPAIR OF WHICH WILL BE THE CONTRACTOR'S TOTAL FINANCIAL RESPONSIBILITY.** The City advises the Contractor to utilize his own water supply equipment, such as tank trucks, and to avoid using the hydrants.

- C. The contractor shall return to the project during the following Spring, prior to April 30<sup>th</sup>, to repair any damaged or defective landscaping and also apply a premium fertilizer and weed preventer.

**PART 4 – PAYMENT**

4.1 METHOD OF MEASUREMENT

- A. The City of Lakewood will measure and pay for landscape repair (grass seed or hydroseed) by the actual square yards installed. Payment for these items will be considered payment in full for all excavation, grading, topsoil, mulch, grass seed, hydroseed, watering any additional repairs & follow-up fertilization and any other items necessary to ensure a complete landscape repair and established growth.

4.2 BASIS OF PAYMENT

- A. The City will pay for accepted quantities at the contract prices as follows.

<b><u>Description</u></b>	<b><u>Unit</u></b>
Landscape Repair, Grass Seed	S.Y.
Landscape Repair, Hydroseed	S.Y.

**END OF SECTION LS 659**