

SPECIFICATIONS:

GRASSING SECTION 02485 - GRASSING 02485 - 8

PART ONE - GENERAL:

1.01 - LIMITS OF WORK

All workmanship and material in this project are to conform to the Standard Specifications for Highway Construction, Latest edition, and the following Special Provisions.

All areas disturbed by grading and construction operations except as covered by surface construction or where noted on the plans, including the areas where surplus material is stockpiled, shall be put into perennial vegetation by hydroseeding and planting as directed on the plans. If not directly noted on the plans then revegetation shall be by hydroseeding.

1.02 - SCOPE

The type of work required includes the following: Fine grading and preparation of grass areas, seeding, planting and/or hydroseeding.

1.03 - LINES AND GRADES

The contractor shall provide his own lines and grades for the work required.

1.04 - STANDARDS AND SPECIFICATIONS

Generally, materials and methods shall conform to the South Carolina Department of Transportation Standard Specifications for Highway Construction, Latest Edition, Section 810, and as specified herein.

1.05 - SUBMITTALS

Submit five (5) copies of type written instructions recommending procedures to be followed by the owner for proper maintenance and care of grasses. Submit proof that all materials meet the requirements of this section. Bag tag figures will be evidence of purity and germination of seed. No seed will be accepted with a date of test of more than nine (9) months prior to date of use. Where fertilizer is furnished from bulk storage, the contractor shall furnish a supplier's certification of weight and analysis.

PART TWO - PRODUCTS:

2.01 - GRASS SEED

Provide fresh, clean, new crop seed complying with the tolerance for purity and germination established by the Official Seed Analysis of North America and certified by the Seed Certification Department of Clemson University, as follows:

- A. **PENNISETUM GLAUCUM** (Browntop Millet)
Testing ninety-eight percent (98%) purity and eighty-five percent (85%) germination.
- B. **CYNODON DACTYLON** (Bermudagrass)
Testing ninety-eight percent (98%) purity and eighty-five percent (85%) germination.
- C. **LOLIUM MULTIFLORUM** (Domestic Italian Rye)
Testing ninety-eight percent (98%) purity and ninety percent (90%) germination.
- D. **ERAGROSTIS CURVULA AND LEHMANNIANA** (Lovegrass)
Testing ninety-nine percent (99%) purity and eighty-five percent (85%) germination.
- E. **EREMUCHLOA OPHIUROIDES** (Centipede)
Germination varies.
- F. **EREMUCHLOA OPHIUROIDES** (Centipede Sprigs and Sod)
Centipede sprigs and sod shall be weed free, moist, freshly dug and actively growing.
- G. **LESPEDEZA CUNEATA** (Serecia Lespedeza - Variety Interstate)
Scarified, testing ninety-eight percent (98%) purity and seventy-five percent (75%) germination. Unscarified, testing ninety-eight percent (98%) purity and thirty-five percent (35%) germination.
- H. **PASPALUM NOTATUM** (Bahia)
Testing ninety-six percent (96%) purity and sixty-seven percent (67%) germination.
- I. **TRIFOLIUM INCARNATUM** (Crimson Clover)
Germination varies.
- J. **FESTUCA ELATIOR** (Tall Fescue)
Germination varies.

2. 02 - OTHER PLANTING MATERIALS

Provide the following materials, all meeting or exceeding regulations of the South Carolina State Department of Agriculture, as follows:

- A. **Fertilizer:** 15-15-15 (50% slow release N2) with trace elements.
- B. **Agricultural Lime:** Standard Grade.
- C. **Agricultural Sulfur:** Standard Grade.

2.03 - SPECIAL REQUIREMENTS

Where construction activities are stopped in an area for over fourteen (14) days, the entire area must be vegetated within seven (7) days from ceasing construction activities. This shall be in accordance with the requirements as outlined in the "NPDES General Permit for Stormwater Discharge From Construction Activities that are Classified as Associates with Industrial Activity" by EPA Regulations Permit No. SCR100000. This is in addition to the requirements for a permanent grass cover and shall be at no additional cost to the owner. The contractor shall make every effort to complete permanent grassing operations at the earliest practical date in order to complete a grass cover sufficient to protect the site from wind and water erosion.

PART THREE - EXECUTION:

3.01 - GENERAL REQUIREMENTS

- A. **Equipment**
Equipment required for proper execution of these operations shall be present on the job site and in good working order.
- B. **Maintain Grades**
Maintain grades in a true and even condition, including necessary repairs to previous grades and topsoiled areas.

3.02 - SOIL PREPARATION

Limit preparation to areas which will be planted in the near future.

- A. **Fine Grading**
Fine grade all areas to receive grassing. Care shall be taken not to disturb existing trees. Perform this work only during period of favorable weather.
- B. **After Fine Grading**
After fine grading, clean surface of all stones and other objects larger than one inch (1") in any direction. Also, remove roots, sticks, grade stakes and other extraneous matter.
- C. **Scarify and Disc or Rototill/Rotorate**
Scarify and disc or Rototill/Rotorate to a depth of three inches (3") to four inches (4") to promote acceptance and germination of seeds.

3.03 - pH READING

Test pH reading. If reading is below 6.0, adjust to that level with an application of lime; if reading is above 6.5, adjust to that level with an application of sulfur. The testing laboratory shall be Clemson University Soil Testing Laboratory or a laboratory approved by the Extension Service.

3.04 - INITIAL APPLICATION OF FERTILIZER

- A. **Flat Areas**
Apply at rate of eight pounds (8 lbs.) per 1,000 square feet (OR AS DETERMINED BY SOIL SAMPLE RESULTS). Distribute fertilizer and mix or stir uniformly over areas incorporating into soil to a depth of two inches (2") by means of hand raking, harrowing, or other approved method. At the contractor's option, this operation may be combined with topsoil spreading specified above. NOTE: No pure nitrogen shall be applied.
- B. **Slopes and Swales**
Combine with grassing operations as specified below. Correct any surface irregularities resulting from this operation by hand raking if necessary, and perform any other required "clean up" work before planting is begun.

3.06 - PLANTING

- A. **Temporary Lawn Seed** (per 1,000 square feet)
Eight pounds (8 lbs.) of fertilizer, 15-15-15; five pounds (5 lbs.) rye grass seed in winter and five pounds (5 lbs.) brown top millet in summer; thirty-five pounds (35 lbs) of wood fiber, one gallon (1 gal.) tac material mixed with water.
- B. **Permanent Lawn Seed** (per 1,000 square feet)

** (TYPE AND AMOUNT OF FERTILIZER TO BE DETERMINED BY SOIL SAMPLE RESULTS)**

1. Centipede Seed Mix

Summer	Winter
6 - 8 oz. Commercial Centipede	10-12 oz. Commercial Centipede
½ lb. Hulled and Unhulled Bermuda	½ lb. Unhulled Bermuda
6 oz. Browntop Millet	3 lbs. Common Rye
8 lbs. Fertilizer	8 lbs. Fertilizer

2. Bermuda Seed Mix

Summer	Winter
1-½ lb. Hulled and Unhulled Bermuda	1-½ lb. Unhulled Bermuda
6 oz. Browntop Millet	3 lbs. Common Rye
8 lbs. Fertilizer	8 lbs. Fertilizer

3. Bahia Seed Mix

Summer	Winter
1-½ lbs. Bahia	1-½ lb. Bahia
½ lb. Hulled and Unhulled Bermuda	½ lb. Unhulled Bermuda
6 oz. Browntop Millet	3 lbs. Common Rye
8 lbs. Fertilizer	8 lbs. Fertilizer

4. Lehman Upright and Weeping Lovegrass Seed Mix

Summer	Winter
6 - 8 oz. Weeping Lovegrass	10 - 12 oz. Weeping Lovegrass
½ lb. Hulled & unhulled Bermuda	½ lb. Unhulled Bermuda
6 oz. Browntop Millet	3 lbs. Common Rye
8 lbs. Fertilizer	8 lbs. Fertilizer

5. Serecia Lespedeza Seed Mix

Summer	Winter
1 lb. Scarified Serecia	2 lbs. Unscarified Serecia
½ lb. Unscarified Serecia	½ lb. Unhulled Bermuda
½ lb. Hulled & unhulled Bermuda	3 lbs. Common Rye
6 oz. Browntop Millet	6 oz. Oats
8 lbs. Fertilizer	8 lbs. Fertilizer

6. Tall Fescue Seed Mix (Planting dates are Easter Day to Thanksgiving)

Summer	Winter
10 lbs. Tall Fescue	10 lbs. Tall Fescue
½ lb. Hulled & unhulled Bermuda	½ lb. Unhulled Bermuda
6 oz. Browntop Millet	8 lbs. Fertilizer
8 lbs. Fertilizer	

7. Crimson Clover Seed Mix (Planting dates are 9/1 to 11/1)

1 lb. Crimson Clover
½ lb. Common Rye
15 lbs. 0-10-20 Fertilizer

- C. **Sprigging**
The method for planting sprigs shall be at the direction of the contractor. Sprigs shall be planted six inches (6") on center and no sprig shall be more than three inches (3") for adjoining sprigs. The contractor is responsible for the establishment of a uniform lawn without bare spots.
 - D. **Sodding**
Sod shall be viable, weed free and recently harvested. Sod shall be placed on the prepared topsoil. The surface on which the sod is to be laid shall be firm and free of footprints. Begin by placing sod along a straight edge and work outward. Sod of the next course shall be matched against the edge of the first line in such a way that the joints between the individual sod pieces do not coincide. Successive courses are matched against the last line laid, in the same manner. The joints shall be closely laid, filled with topsoil and rolled lightly. Surface of sod shall be smooth and free of depressions.
 - E. **Establish Lawns**
It is the responsibility of the contractor to establish a complete vegetative cover with viable healthy plants.
 - F. **Hydroseeding** (Temporary or Permanent Lawn per 1,000 square feet)
To the mixtures stated above, add thirty-five pounds (35 lbs.) of wood fiber, one gallon (1 gal.) tac material or equivalent mixed with the manufacturer's recommended rate of water.
 - G. **Seeding for Temporary Erosion Control Only** (per 1,000 square feet)
August 15 to March 15: Three pounds (3lbs.) of crimson clover and four pounds (4lbs.) of fertilizer.
March 15 to August 15: One-half pound (1/2lb.) browntop millet seed and four pounds (4lbs.) of fertilizer.
- 3.07 - MAINTENANCE
- A. **Begin maintenance immediately** after any lawn, grass or wildflower meadow area is planted.
 - B. **Maintain Lawns**
Maintain lawns by weeding, cultivating, mowing, trimming, hydroseeding, seeding, or re-sodding and other operations such as re-grading and re-planting as required to establish an acceptable stand of grass.

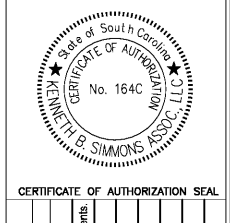
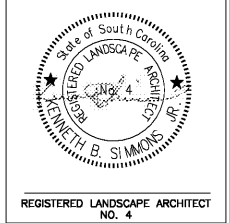
- C. **Provide Adequate Protection**
Provide adequate protection at all times for all grass areas. Lay or place planks over grass for the movement of heavy materials or equipment.
- D. **Repair or Replace**
Repair or replace, at no additional cost to the owner, any portion of grassed areas or wildflower/grass meadows not in good viable condition if so determined by the owner before or on the date of completion for work on the prior to that time.

3.08 - ACCEPTANCE
Lawns will be acceptable provided all requirements including maintenance, have been complied with, and a healthy, uniform stand of specified cover is established, free of weeds, bare spots and surface irregularities. A full stand of grass is not required where irrigation has not been installed.

END OF SECTION

Order Plans

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NO.	DATE	DESCRIPTION
1	3/22/2017	Revised to add additional sheets
2	4/18/2017	Revised Per Public & Utility company comments

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PROJECT:
Publix
South Lake Drive & Platt Springs Road
LOCATED NEAR RED BANK
LEXINGTON COUNTY, SOUTH CAROLINA
GRASSING SPECIFICATIONS

TMS 007600-02-005, 006, 013, 084, 095, 116	BOOK N/A	SF NO. 245-19A
PROJECT NO. 1920	DATE 3/15/2017	SHEET NO. L4
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