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SECTION 02950 PLANTING

All work and materials shall conform to the Drawings and the provisions of MDOT SECTION 621-LANDSCAPING, with the following modifications and additions:

*ADDITIONS:*

PART 1 GENERAL

1.01 QUALITY CONTROL:

- A. Do not make substitutions. If specified material is not obtainable, submit non-availability to Resident, together with proposal for use of equivalent material. When authorized, adjustment of contract amount will be made.
- B. Imported Topsoil: Before delivery of imported topsoil, furnish Resident with written statement giving location of properties from which topsoil is to be obtained, names and addresses of owners, depth to be stripped, crops grown during past 2 years.
  - 1. Use only topsoil which Fertile, friable, natural topsoil of loamy character, without admixture of subsoil material, obtained from a well-drained arable site, reasonably free from clay, lumps, coarse sands, stones, plants, roots, sticks, and other foreign materials greater than 3/4" in any dimension, with acidity range of between pH 5.0 and 7.0, and shall contain not less than 7% organic matter by weight as determined by loss on ignition of moisture-free samples dried at 65 degrees C. is representative of topsoil soil test report as specified below.
- C. Topsoil Testing: Provide soils testing by an approved soil testing laboratory, for both existing stockpiled topsoil and any topsoil imported from other sources. Submit the following materials certification for each source of topsoil used:
  - 1. pH Factor.
  - 2. Mechanical Analysis.
  - 3. Percentage of Organic Content.
  - 4. Recommendations on type and quantity of additives required to establish satisfactory pH and organic content factor, and supply of nutrients to bring topsoil to satisfactory level for planting.

1.02 PROJECT WARRANTY:

- A. Planting: Warranty plants for a period of one year after date of substantial completion of planting work, against defects including death and unsatisfactory growth.
- B. Warranty shall not include damage or loss of plants caused by fires, floods, freezing rains, lightening storms, or winds over 75 miles per hour, winter kill caused by extreme cold and severe winter conditions not typical of planting area; acts of vandalism or negligence on part of Department or City.
- C. Replace, in accordance with Drawings and Specifications, all plants that are dead or, as determined by Architect, are in an unhealthy or unsightly condition, and have lost their natural shape due to dead branches, or other causes due to the Contractor's negligence during or at the termination of warranty period. Such replacement(s) shall be at no cost to Department.
  - 1. Plants shall be free of dead branches and dead branch tips and shall bear foliage of a normal density, size and color.

2. Make necessary repairs to grades, lawn areas and paving required because of plant replacements. Such repairs shall be done at no cost to Department.
3. Warranty of replacement plants shall extend for an additional period of one year from date of their acceptance after replacement. If replacement plants are not acceptable during, or at end of extended warranty period, Owner may elect subsequent replacement or credit for each item.

### PART 3 EXECUTION

#### 3.01 PREPARATION

- A. General: Layout individual plant locations and areas for multiple plantings. Stake locations and outline areas and secure Architect's acceptance before start of planting work. Make minor adjustments as may be requested.
- B. Planting Soil (Topsoil) Depths: Unless indicated otherwise, provide planting soil depths not less than following:
  1. Trees: 6 inches.
  2. Shrubs: 10 inches
- C. Preparation of Planting Soil:
  1. Before mixing, clean topsoil of roots, plants, sods, stones, clay lumps, and other extraneous materials harmful or toxic to plant growth.
  2. Mix specified soil amendments and fertilizers with topsoil at rates specified. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.
    - a. For planting: One part compost, 8 parts topsoil, 3 parts humus.
  3. For pit and trench type backfill, mix planting soil prior to backfilling, and stockpile at Site.
  4. For planting beds mix planting soil either prior to planting or apply on surface of topsoil and mix thoroughly before planting.
    - a. Mix lime with dry soil prior to mixing of fertilizer.
    - b. Prevent lime from contacting roots of acid-loving plants.
    - c. Apply phosphoric acid fertilizer (other than that constituting a portion of complete fertilizers) directly to subgrade before applying planting soil and tilling.
    - d. Provide following soil ratio: 2 parts compost, 8 parts topsoil, 2 parts humus.

#### INSPECTION AND ACCEPTANCE

- A. When planting work is completed, including maintenance, Resident will, upon request, make an inspection to determine acceptability.
  1. Landscape work may be inspected for acceptance in parts agreeable to Resident, provided work offered for inspection is complete, including maintenance.
- B. Where inspected planting work does not comply with requirements, replace rejected work and continue specified maintenance until re-inspected by Resident and found to be acceptable. Remove rejected plants and materials promptly from Project Site.

1. Replacements are subject to same requirements as original plants, including maintenance and maintenance periods. Plants designated for spring planting only may be replaced only during the spring planting season unless otherwise approved or directed by Resident.

END OF SECTION 02950