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**SEEDING**

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**PART 1 GENERAL**

- 1.01 OTHER CONTRACT DOCUMENTS      The General Conditions of the Contract, General Requirements and Supplemental Conditions attached hereto shall apply to and be a part of this Section.
- 1.02 DESCRIPTION OF WORK      The Work described herein is for the supply and installation of Turfgrass/Wildflower seed and associated works.
- 1.03 RELATED WORK      Section 02936 Topsoil
- 1.04 CLASSIFICATION OF THE WORK      Seeding shall be classified as either Boulevard Seed, Playing Field Seed, or Wildflower Seed and unless specified otherwise in Section 01001 Supplemental Conditions or shown on the Drawings, Seeding shall be Boulevard Seed.
- 1.05 SUBMITTALS      Prior to delivery of the Seed, the Contractor shall, as described in Section 01340 Submittals, provide written certification from the grower (distributor) of the seed stating the name and address of the seed supplier; the percentage by mass of each seed species in the seed blend. Seed shall not be placed until the certification has been reviewed by the Engineer.
- 1.06 WARRANTY      The conditions as stated in Article XII of the General Conditions of the Contract will pertain to this Section. The Contractor shall at his sole cost and expense, maintain the seeded area until it is accepted by the Engineer as stated in Part 3.03 of this Section. Once the seeded area is accepted by the Engineer, the Contractor shall only be responsible for the replacement of any seeded area found dead and/or in poor condition during a period of twelve (12) months from the date of the Certificate of Final Completion for the Work. During the twelve (12) month period the Contractor will not be responsible for the replacement of any seeded area damaged by accidental causes or negligent maintenance practices by the City substantiated by written notice from the Contractor to the Engineer during the warranty period.

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**PART 2 PRODUCTS**

2.01 SEED

Seed shall be commercially produced and certified as Canada No.1 seed and supplied in the blends shown below:

**PLAYING FIELD SEED:**

**85 Percent** by mass of a Kentucky Bluegrass blend of 3 or 4 fine leaved turf grass cultivars, in equal proportions, with a minimum of 60 percent by mass, as determined by initial seeding proportions, of acceptable low maintenance Kentucky bluegrass cultivars.

AND

**15 Percent** by mass of Creeping Red Fescue cultivars.

**BOULEVARD SEED:**

**60 Percent** by mass of a Kentucky Bluegrass blend of 3 or 4 fine leaved turf grass cultivars, in equal proportions, with a minimum of 60 percent by mass, as determined by initial seeding proportions, of acceptable low maintenance and salt tolerant Kentucky Bluegrass cultivars.

AND

**30 Percent** by mass of Creeping Red Fescue cultivars.

AND

**10 Percent** by mass of Perennial Ryegrass cultivars.

**WILDFLOWER SEED:**

Wildflower blends shall be as stated in Section 01001 Supplemental Conditions..

Any variation to the above seed blends shall be approved by the Engineer prior to the delivery of the Seed to the Site.

2.02 WATER

Water shall be potable from a source approved by the Engineer.

2.03 HERBICIDE

Herbicides shall be standard commercial products registered for sale and use in Canada under the Pest Control Products Act and as approved by the Engineer.

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2.04 INSECTICIDE Insecticides shall be standard commercial products registered for sale and use in Canada under the Pest Control Products Act and as approved by the Engineer.

2.05 HYDRO MULCH Hydromulch shall be a wood cellulose fibre product free of germination or growth inhibiting ingredients and shall form a blotter like ground cover allowing for the absorption and percolation of water.  
The hydromulch shall be applied in a slurry complete with tackifier and fertilizer at the rate as directed by the manufacturer of the hydromulch.

**PART 3 EXECUTION**

3.01 INSTALLATION OF SEED Prior to commencing installation of the seed, the Contractor shall obtain approval from Engineer that the finished grade and depth of topsoil are acceptable and installation of the seed can start.

The Contractor shall install the seed during the growing season (early spring, or after mid august to within two weeks of freezeup) and when winds are less than 10 kilometres per hour using approved mechanical equipment. The seed shall not be installed in a frozen state or when conditions are unfavourable to the successful germination of the seed.

Prior to placing the seed, the Contractor shall lightly scarify and moisten the topsoil to a minimum depth of 100 millimetres. The Contractor shall sow turfgrass seed evenly at a minimum rate of 1.0 kilograms per 100 square metres. Wildflower seed shall be sown at the rate as recommended by the seed supplier. The seed shall be incorporated into the topsoil to a depth of 6 millimetres. The Contractor shall ensure seeding equipment does not excessively compact the topsoil and shall roll the seeded area to form a uniform even surface. The Contractor shall apply water in sufficient quantities to saturate the seeded area to a minimum depth of 100mm.

All seeding operations (seeding, hydro mulching, rolling and watering) shall be completed within 48 hours of the initial sowing of the seed.

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3.02 MAINTENANCE OF  
SEED

The maintenance period will not commence until the Engineer has certified the installation of the seed, as stated in Part 3.01 of this Section, is complete.

The Contractor shall maintain the seeded area for a minimum continuous period of thirty (30) days or until such a time as the Work has been accepted by the Engineer as stated in Part 3.03 of this Section. Maintenance shall include all watering, mowing, weed control, pest control, and cleaning of the seeded area, including the re-seeding of dead, poorly germinated, bare, thin, damaged, deficient, washed out or vandalized areas.

The Contractor shall water the seed in sufficient quantities and at the required frequency to keep the topsoil beneath the sod continuously moist to a minimum depth of 100 millimetres. And unless stated otherwise in Section 01001 Supplemental Conditions, the Contractor shall make all necessary arrangements to obtain a supply of water and shall pay all costs associated with obtaining the water.

The Contractor shall provide adequate protection of the seeded area from erosion, pedestrian and mechanical damage and shall only remove such protection after the seeded area has been accepted by the Engineer.

The Contractor shall first mow the grass to 60 millimetres in height when the grass has initially grown to a height of 80 millimetres. Clippings shall be removed and disposed of if the grass appears smothered.

The Contractor shall apply herbicide when broad leaf weeds begin to develop. Herbicide shall be applied in accordance with the manufacturer's instructions and only when winds are less than 10 kilometres per hour and the air temperature is above 10 degrees Celsius

Areas seeded after September 15th which do not have an even stand of healthy live growth and/or adequate root development in that year, shall have the maintenance period commence on May 15th of the following year and continue as stated in this Section.

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3.03 TERMINATION OF  
MAINTENANCE  
PERIOD

The Engineer will terminate the seed maintenance period when all of the following criteria have been met by the Contractor.

- .1 The seed supplied meets the blend and seed mixture requirements as specified herein; and
- .2 The seeded area is, even colored, and free of bare or dead sections, undulations, washouts and settlement, and
- .3 The seeded area does not contain more than ten (10) broadleaf weeds in a fifty (50) square metre area, and
- .4 The seed roots are well anchored into the underlying moist topsoil and the seed is established, healthy and vigorously growing; and
- .5 No surface soil is visible after the turfgrass/wildflowers have been mowed a minimum of two (2) times to a height of 60 millimetres, with the most recent mowing occurring within two (2) working days prior to the date of inspection, and
- .6 The Site is clean and the seeded area is free of any visual obstructions such as leaves or refuse.

If the Seed does not meet the above criteria, all deficiencies shall be corrected by the Contractor as directed by the Engineer and further maintained by the Contractor, at his sole expense, as stated in Part 3.02 of this Section.

END OF SECTION