

**Part 1            General**

**1.1            LIMITATION OF WORK**

- .1        This section describes the work site preparation, supply of topsoil and seeding in accordance with instructions contained in the plan.

**1.2            REFERENCE**

- .1        BNQ Standard 0605-030  
          Landscaping: Grass planting and seeding.

**1.3            PRODUCT DATA**

- .1        Submit data sheets in accordance with the requirements of Section 01 33 00.
- .2        Provide cut product data for the following products:
  - .1        Seeds.
  - .2        Mulch.
  - .3        Agents adhesive.
- .3        Submit in writing the following information to the engineer three days before the work begins.
  - The volume capacity of the machine.
  - The amount of product to be used per cell, calculated based on the capacity of the machine.

**1.4            MACHINERY**

- .1        Seeding should be done with a hydraulic seeder with the following characteristics:
  - Being provided with a tank for the mixture.
  - Being provided with a mechanical stirring and mixing or recirculating system, operable during loading of the tank and sowing.

**Part 2           Products**

**2.1            TOPSOIL**

- .1        Loam: too rich topsoil or clay, sand or too poor, whose organic content is between 4% and 5% for the sandy loams and between 2% and 3% for clay soils. The land must be free from dirt basement, roots, plants, toxic materials, pebbles, stones and other foreign matter and must have acidity (pH) of 5.5 to 7.5. Topsoil containing grass or weeds is not acceptable.
- .2        Composition
  - .1        Soil mineral.
  - .1        Of organic compost.

- .2 Part coarse sand.
    - .3 Two parts of loam or topsoil.
  - .2 Soil organic.
    - .1 Two parts of organic compost.
    - .2 Two parts loam or existing topsoil.
    - .3 Part coarse sand.
- .3 Characteristics of mixtures.
  - .1 Soil mineral.
    - .1 5% organic material, pH between 6 and 7.
    - .2 Cationic exchange capacity (CEC) between 10 and 20 meq/100 g.
    - .3 Water retention capacity: up to 20%.
  - .2 Soil organic.
    - .1 Organic matter between 10% and 15%, pH between 6 and 7.
    - .2 Cationic exchange capacity (CEC) between 10 and 20 meq/100g.
    - .3 Water retention capacity: up to 20%.

## **2.2 PRODUCTS SOIL AMENDMENT**

- .1 Fertilizer according to the Fertilizer Act and Fertilizers Regulations of the Government of Canada.
- .2 No chemical fertilizer should be used.

## **2.3 SEED**

- .1 Seed Canada No.1 in accordance with the regulations relating to the seeds of the Government of Canada, with a minimum germination rate of 75% and a purity of 97% and treated with a fungicide product. The composition of the mixture is grass:
  - .1 Mil (Phleum pratense) 50%.
  - .2 Canada bluegrass (Proacompensa) 35%.
  - .3 White clover (Trifolium repens) 15%.
- .2 The seed rate is 255 kg/ha. (5.25 lbs/1000 ft<sup>2</sup>).
- .3 Adhesive dispersion liquid organic water-soluble.
- .4 Hydroseeding mulch, non-toxic, water activated added green dye, free of sprouting and growth with the following characteristics:
  - .1 Wood cellulose fiber.
  - .2 Organic matter content of 95%.
  - .3 pH 6.0.
  - .4 Absorption capacity of water 900%.
- .5 Water, available on the premises as required by pumping the artificial pond.

**Part 3            Execution**

**3.1                INSTALLATION AND SPREAD OF THE EARTH AND VEGETABLE SOIL.**

- .1      Once Departmental Representative has accepted the infrastructure put the topsoil in place.
- .2      Spread topsoil in uniform layers not exceeding 150 mm thick.
- .3      Consider a settlement during the implementation of the land to meet the levels projected.
- .4      Finish the work manually on the soil-covered area in order to respect the indicated profiles and elevations.
- .5      Level the topsoil to eliminate rough and low areas and to ensure the proper flow of surface water. If the soil is too soft or loose, the compacts lightly and roll, rake.
- .6      Use a roll of 50 kg and 900 mm wide, to strengthen the surface of the topsoil.
- .7      Leave the surfaces smooth, uniform, firmand footprint resistant, with a fine and smooth texture.

**3.2                EARTH FINISH**

- .1      Loosen to a depth of 25 mm surfaces designated as requiring work loosening.
- .2      Obtain approval by the Departmental Representative surfaces before starting seeding.

**3.3                PRODUCTS SOIL**

- .1      Apply the fertilizer evenly manufacturer's recommended rate.

**3.4                MIXING SEED**

- .1      Measure quantities by weight or volume using a graduated cylinder by weight the product, to the satisfaction of Departmental Representative. Provide the necessary equipment to measuring quantities.
- .2      Pour the required amount of water in the hydraulic seeder. To the agitator before adding seeding products. Spray mulch and slowly pour in the drill.
- .3      Once all materials paid in the planter and well mixed, add the agent adhesion and mix well.

**3.5                APPLICATION OF MIXTURE OF SEEDING**

- .1      Apply the mixture of seed evenly, giving the optimum jet angle to ensure adherence to the surfaces and seed germination.
  - .1      Use the most appropriate nozzle application.
  - .2      Use hoses hand to plant areas of difficult access and to effectively control the application.
- .2      To ensure a uniform surface coverage, overflow 300 mm on the application adjacent surfaces covered with grass or turf.
- .3      Resume seeding where the application of the mixture is not uniform.
- .4      Remove the spray on structures and surfaces that can not be treated.

- .5 Prevent traffic on seeded areas to the satisfaction of the Departmental Representative.

### **3.6 SEEDING**

- .1 Seed areas between thawing and June 15, obtain the approval of the Departmental Representative seeded at any time.

### **3.7 MAINTENANCE DURING THE PERIOD OF ESTABLISHMENT AND PERIOD WARRANTY**

- .1 Perform maintenance from the date of sowing to the end of the warranty period.
- .2 Water seeded to maintain the optimum level of humidity required areas to ensure germination and continued growth of the grass. Adjust the flow watering so that the soil is not washed away.
- .3 Repair and re-seeding bare surfaces or vegetation is dead.

### **3.8 ACCEPTANCE**

- .1 Planted areas will be accepted 10 weeks after seeding by Departmental Representative if the following conditions are met.
- .2 The vegetation is established uniformly. The surfaces are free of seeded areas eroded or denuded areas of dead vegetation and soil are not apparent.

**END OF SECTION**