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**PART 1        GENERAL**

**1.1            SUBMITTALS**

- .1        Submit:
  - .1        Sod for each type specified.
    - .1        Install approved samples in one square metre mock-ups and maintain in accordance with maintenance requirements during establishment period.
    - .2        Bio-degradable geotextile fabric.
  - .2        Obtain approval of samples by Departmental Representative.

**1.2            QUALITY ASSURANCE**

- .1        Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
- .2        Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .3        Pre-Installation Meetings: conduct pre-installation meeting to verify project requirements, installation instructions and warranty requirements.

**1.3            SCHEDULING**

- .1        Schedule sod installation when frost has left ground and Before June 15 or between August 15 and September 30.
- .2        Schedule sod laying to coincide with preparation of soil surface.

**PART 2        PRODUCTS**

**2.1            MATERIALS**

- .1        Number One Turf Grass Nursery Sod: sod that has been especially sown and cultivated in nursery fields as turf grass crop.
  - .1        Number one Named Cultivars: Nursery Sod grown from certified seed.
  - .2        Turf Grass Nursery Sod Quality:
    - .1        Not more than 2 broadleaf weeds or 10 other weeds per 40 square metres.
    - .2        Density of sod sufficient so that no soil is visible from height of 1500 mm when mown to height of 50 mm.
    - .3        Mowing height limit: 35 to 65 mm.
    - .4        Soil portion of sod: 6 to 15 mm in thickness.

- .2 Commercial Grade Turf Grass Nursery : Sod that has not been grown as Turfgrass Nursery Sod crop.
  - .1 Mow sod at height directed by Departmental Representative within 36 hours prior to lifting, and remove clippings.
- .3 Sod establishment support:
  - .1 Geotextile fabric: biodegradable, 25 mm square mesh.
  - .2 Wooden pegs: 17 x 8 x 250 mm.
- .4 Water:
  - .1 Supplied by Departmental Representative at designated source.
  - .2 Potable, free of impurities.
- .5 Fertilizer:
  - .1 To Canada "Fertilizers Act" and "Fertilizers Regulations".
  - .2 Complete, synthetic, slow release with 65% of nitrogen content in water-insoluble form.

## **2.2 SOURCE QUALITY CONTROL**

- .1 Obtain approval from Departmental Representative of sod at source.
- .2 When proposed source of sod is approved, use no other source without written authorization.

## **PART 3 EXECUTION**

### **3.1 PREPARATION**

- .1 Verify that grades are correct and prepared in accordance with Section 32 91 19.13 - Topsoil Placement and Grading. If discrepancies occur, notify Departmental Representative.
- .2 Do not perform work under adverse field conditions such as frozen soil, excessively wet soil or soil covered with snow, ice, or standing water.
- .3 Fine grade surface free of humps and hollows to smooth, even grade, to contours and elevations indicated, to tolerance of plus or minus 8 mm, for Turfgrass Nursery Sod, and plus or minus 15 mm for commercial grade turfgrass nursery, surface to drain naturally.
- .4 Remove and dispose of weeds; debris; stones 50 mm in diameter and larger; soil contaminated by oil, gasoline and other deleterious materials; off site in location as directed by Departmental Representative.
- .5 Cultivate fine grade approved by Departmental Representative to 25mm depth immediately prior to sodding.

### **3.2 SOD PLACEMENT**

- .1 Lay sod within 24 hours of being lifted.
- .2 Lay sod sections in rows, longitudinally, along contours of slopes, joints staggered. Butt sections closely without overlapping or leaving gaps between sections. Cut out irregular or thin sections with sharp implements.
- .3 Roll sod as directed by Departmental Representative. Provide close contact between sod and soil by light rolling. Use of heavy roller to correct irregularities in grade is not permitted.

### **3.3 SOD PLACEMENT ON SLOPES AND PEGGING**

- .1 Install and secure geotextile fabric in areas indicated, in accordance with manufacturer's instructions.
- .2 Start laying sod at bottom of slopes.
- .3 Lay sod sections longitudinally, along contours of slopes as indicated.
- .4 Peg sod on slopes steeper than 3 horizontal to 1 vertical, within 1 m of catchbasins and within 1 m of drainage channels and ditches to following pattern:
  - .1 100 mm below top edge at 200 mm on centre for first sod sections along contours of slopes.
  - .2 Not less than 9 pegs per square metre.
  - .3 Not less than 12 pegs per square metre in drainage structures. Adjust pattern as directed by Departmental Representative.
  - .4 Drive pegs to 20 mm above soil surface of sod sections.

### **3.4 FERTILIZING PROGRAM**

- .1 Fertilize during establishment and warranty periods to following program agreed to by Departmental Representative.

### **3.5 MAINTENANCE DURING ESTABLISHMENT PERIOD**

- .1 Perform following operations from time of installation until acceptance.
- .2 Water sodded areas in sufficient quantities and at frequency required to maintain optimum soil moisture condition to depth of 75 to 100 mm.
- .3 Cut grass to 50 mm when or prior to it reaching height of 75 mm. Remove clippings as directed by Departmental Representative.
- .4 Maintain sodded areas weed free.
- .5 Fertilize areas in accordance with fertilizing program. Spread half of required amount of fertilizer in one direction and remainder at right angles and water in well.

### **3.6 ACCEPTANCE**

- .1 Turfgrass Nursery Sod areas will be accepted by Departmental Representative provided that:
  - .1 Sodded areas are properly established.
  - .2 Sod is free of bare and dead spots, and without weeds.
  - .3 No surface soil is visible from height of 1500 mm when grass has been cut to height of 50 mm.
  - .4 Sodded areas have been cut minimum 2 times, and within 24 h prior to acceptance.
  - .5 Fertilizing in accordance with fertilizer program has been carried out at least once.
- .2 Sodded Commercial Grade Turfgrass Nursery Sod areas will be accepted by Departmental Representative provided that:
  - .1 Sodded areas are properly established.
  - .2 Extent of surface soil visible when grass has been cut to height of 60 mm is acceptable.
  - .3 Sod is free of bare or dead spots and extent of weeds.
  - .4 Sodded areas have been cut minimum 2 times prior to acceptance.
  - .5 Fertilizing in accordance with fertilizer program has been carried out at least once.
- .3 Areas sodded in fall will be accepted in following spring one month after start of growing season provided acceptance conditions are fulfilled.

### **3.7 MAINTENANCE DURING WARRANTY PERIOD**

- .1 Perform following operations from time of acceptance until end of warranty period:
  - .1 Water sodded Turfgrass Nursery Sod and Commercial Grade Turf Grass Nursery Sod areas at weekly intervals to obtain optimum soil moisture conditions to depth of 100 mm.
  - .2 Repair and resod dead or bare spots to satisfaction of Departmental Representative.
  - .3 Cut grass and remove clippings as directed by Departmental Representative.
    - .1 Turf Grass Nursery Sod:
      - .1 50 mm during normal growing conditions.
    - .2 Commercial Grade Turfgrass Nursery Sod:
      - .1 60 mm during normal growing conditions.
    - .3 Cut grass as directed by Departmental Representative but at intervals so that approximately one third of growth is removed in single cut.
  - .4 Fertilize areas in accordance with fertilizing program. Spread half of required amount of fertilizer in one direction and remainder at right angles and water in well.

- .5 Eliminate weeds by mechanical means to extent acceptable to Departmental Representative.

### **3.8 CLEANING**

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

**END OF SECTION**