

## 1.0 GENERAL

### .1 Summary of Requirements of BCIT

- .1 All plant lists are to be submitted prior to tender.
- .2 Include materials and installation of standard manufactured catalogue items such as planting bed edger products.
- .3 Proximity to buildings:
  - .1 Where hardscaping does not abut the building, provide a gravel strip with a minimum dimension of 450mm.
  - .2 Plantings installed around the perimeter of buildings within 2m:
    - .1 To be low growing with mature planting heights maximum 1.2m in this zone.
    - .2 Design and plant to allow for ease of access for routine building maintenance.
  - .3 Tree distancing to buildings. Trees with:
    - .1 0-8m mature height: minimum of 3m from the building face.
    - .2 8-15m mature height: minimum 5m from the building face.
    - .3 15m+ mature height: minimum 10m from the building face.
- .4 Crime Prevention:
  - .1 Design the building perimeter using the principles of Crime Prevention Through Environmental Design (CPTED).
  - .2 Ensure there are clear sightlines to building entrances.

### .2 References

- .1 Canadian Landscape Standard, Current Edition.
- .2 CLNA Standards for Nursery Stock, Current Edition.
- .3 ISA / ANSI, ANSI-A300, Standards for Tree Care Operations.

## 2.0 ADMINISTRATIVE AND SUBMITTAL REQUIREMENTS

### .1 BCIT Submittals and Notifications

- .1 Product Data: Photo submittals of plant stock or a nursery visit is to be coordinated with the Consultant prior to purchase and delivery of plant materials. See quality assurance section below.

### 3.0 QUALITY ASSURANCE

#### .1 Quality Assurance

- .1 BCIT Manager – Transportation and Grounds reserves the first right of refusal to meet project landscape architect at the nursery and hand pick (tag) large tree/shrub specimens and if required choose substitutions prior to plant list orders being picked by nursery or contractor.
- .2 Make trees and plant material available for inspection at the nursery by the BCIT Manager – Transportation and Grounds and the Project Landscape Architect well in advance of scheduled planting time. Notify the Project Landscape Architect when plants are available for inspection.
- .3 Plants are subject to inspection and may be rejected for failure to comply with contract specifications at any time until Substantial Performance. Rejected material is to be replaced at no cost to Owner.
- .4 Materials and work shall conform to the latest edition of the following standards or as otherwise specified:
  - .1 Canadian Landscape Standard, Current Edition.
  - .2 CLNA, Canadian Standards for Nursery Stock, current edition.
  - .3 ISA / ANSI, ANSI-A300, Standards for Tree Care Operations.
- .5 Before substitutions of plant material are considered, documented due diligence that the specified material is not available at nurseries throughout Pacific Northwest (Canada and United States) must be provided. Area of supply shall include but shall not be limited to the area as mentioned herein.
- .6 Plant material used on this project shall be hardy in this climate and non-invasive or noxious as defined by the Invasive Species Council of BC and Invasive Species Council of Metro Vancouver. Plant types have been selected with this as a criteria.
- .7 The Consultant may waive one or more inspections. This shall not impair the right of the Consultant to inspect work or materials which have been damaged or in any way do not conform to the contract specifications.
- .8 Be present during all required inspections as specified or as may be required by the Consultant.
- .9 Substitutions: where it is impossible to obtain the particular plant material listed on the Landscape Drawing, request substitutions with types and variations possessing the same characteristics. Request substitutions of trees in writing at least three (3) months and shrubs and groundcover at least two (2) months prior to planting. Substitutions must be approved by the Consultant and Owner and BCIT Manager – Transportation and Grounds.
- .10 Plants are to be laid out for inspection by the BCIT Manager – Transportation and Grounds, and or designate, the Landscape architect, and the contractor prior to

planting to ensure spacing from hardscapes are adequate and plant numbers and spacing are appropriate to the area and conform to the drawings.

## **.2 Delivery, Storage, and Handling**

- .1 Specify to handle to avoid dropping and sudden impacts to roots and root balls.
- .2 Ensure plant material is free of damages, defects, noxious perennial weeds and is true to type as specified on plant list. Do not accept or install sub-standard plant material or weed infested plant material.
- .3 Ensure appropriate storage, protection and installation of plant material.
- .4 Immediately store and protect plant material which will not be installed within 1 hour after arrival at site in storage location approved by the BCIT Manager – Transportation and Grounds.
- .5 Protect stored plant material from frost, wind, sun, drought and physical damage as follows:
  - .1 For bare root plant material, preserve moisture around roots by heeling-in or burying roots in hem/fir mulch or topsoil and watering to full depth of root zone.
  - .2 For balled and burlapped and wire basket root balls, keep moist before planting by heeling-in with mulch or soil.
- .6 Place plants stored on site in such a way as to protect branches, rootballs and roots from damage.
- .7 Notify the Consultant a minimum of forty-eight (48) hours prior to each delivery.

## **4.0 CLOSEOUT**

### **.1 Substantial Completion and Warranty**

- .1 BCIT Manager – Transportation and Grounds will inspect for Substantial Performance.
  - .1 Final inspection of planting will be made one month before the end of the specified warranty period. For release from the Contract, all plant materials supplied or transplanted must be alive and in a healthy, satisfactory growing condition at the time of inspection.
- .2 Warranty to stipulate that plant material will remain free of defects as per contract plant lists and landscape specifications, for one (1) full year from the date of certified Substantial Performance of the Work.
  - .1 Warranty maintenance will be held to Canadian Landscape Standard Level 1 and/or Level 2. This warranty designation will be determined by the BCIT Manager – Transportation and Grounds upon request prior to warranty start.
  - .2 Specify so that defective or dead plants, trees, lawns or plantings are replaced as required during the maintenance and warranty period to the satisfaction of the Consultant and Owner.

Consultants are to provide complete specifications, and review these Technical Standards documents to include BCIT requirements within the specifications as applicable to the project.

- .3 Specify so that defective or dead plants, trees, lawns or plantings are replaced as required during the maintenance and warranty period to the satisfaction of the Consultant and Owner.
- .4 Replacement plants to be same size and species as specified on the plant list.
- .3 Weed Control: Manual weed control is the preferred method and may be the only permitted methodology. Confirm with Owner.
- .1 BCIT discourages the use of herbicides. Use of any herbicide needs to be requested to and approved by the BCIT Manager - Transportation and Grounds.
- .4 End-of-warranty inspection will be conducted by the Consultant and Owner representatives, including a representative(s) from project management and BCIT Manager – Transportation and Grounds.

## 5.0 PRODUCTS

### .1 Plant Material and Installation

- .1 Conform to the Canadian Landscape Standards for Nursery Stock.

### .2 Accessories

- .1 Specify stakes and ties so that trees are protected and keep trees plumb and true during warranty period.
- .2 Mulch: Nutra Mulch Composted Fir/Hemlock bark mulch blend.
- .3 Fertilizers: Specify based on soil test results of site soils and/or planting media specified for the project.
- .4 Biostimulants: Specify to contain soil conditioners, VAM, and ectomycorrhizal fungi spores and soil bacteria appropriate for existing soil conditions.

## 6.0 EXECUTION

### .1 Plant Spacing

- .1 Plant Spacing to be inspected by the Manager Transportation and Grounds or designate prior to planting. Specify such that plants are to be laid out by contractor prior to planting.

\*\*\* END OF PLANTS AND PLANTING SECTION \*\*\*