

DESCRIPTION:

Under these Items the Contractor shall furnish, deliver, and plant all trees and shrubs according to the plans and specifications.

MATERIALS:

Each plant supplied shall be as designated in the list which is included as part of this specification and as shown on the plans in the plant list.

Plant names shall agree with nomenclature of "Standardized Plant Names", as adopted by the American Joint Committee on Horticultural Nomenclature, current edition; size and grading standards shall conform to those of the American Association of Nurserymen (A.A.N.) unless otherwise specified. No substitution shall be permitted except by written permission of the Project Manager upon adequate documentation in writing from three (3) sources of unavailability of material specified.

All plants shall be subject to inspection at any time and place. Inspections desired by the Contractor, if Contractor shall be represented at all inspections. The Project Manager reserves the right and option to place seals on plant materials selected. Selection and/or tagging shall not constitute final acceptance nor preclude the right of rejecting plants not fully meeting the requirements of the specifications.

The Project Manager reserves the right to identify by suitable non injurious means such as planting markings by various methods, etc..., all plant material rejected upon delivery to the contract site.

All plants are subject to inspection and approval at point of origin. To this effect, when requested by the Project Manager, the Contractor shall designate the plant material at the nursery that is to be planted in this Contract in the presence of the Project Manager. The Project Manager shall, at his/her option, tag each plant selected. Plant material not meeting specification requirements will be rejected at the nursery and material tagged at the nursery arriving untagged at the site will also be rejected. No tags shall be removed until after planting.

The quality of all plants shall be typical of their species or variety, and in accordance with American Standards of Nursery stock - ANSI Z60.1-1973 by AAN They shall have normal, well developed branches and vigorous root systems. They shall be free of fibrous defects, disfiguring knots, sub-scalded injuries, abrasions of the bark, plant diseases, insect eggs, bores, and all forms of infestations. All plants shall be nursery-grown unless otherwise stated: they shall have been growing under the same climatic conditions as the location of this project for at least two years prior to date of planting on this project. Trees held in storage will be rejected if they show signs of growth from storage.

For measurement purposes. a plant shall be dimensioned as it stands in its natural position. Trees shall be callipered six (6) inches above ground. Stock furnished shall be fair average of the minimum and maximum sizes specified. Large plants cut back to size specified will not be accepted.

For delivery, all plants shall be packed, transported, covered when delivered in open trucks, and handled with utmost care to insure protection against injury. During shipment they shall be protected by tarpaulin or other suitable covering so as to prevent dehydration. Each shipment shall be certified by State and Federal authorities to be free from disease and infestation.

Any inspection certificate required by law to this effect shall accompany each shipment invoice or order of stock. On arrival, the certificate shall be filed with the Engineer. Balled and burlapped plants shall be set on the ground and the balls covered with moist soil. Until planted, all plant material shall be properly maintained to the satisfaction of the Project Manager.

Plant material shall be subject to inspection upon delivery to site, tagging notwithstanding. No plant material shall be planted until inspected and approved. Any rejected plant material shall be immediately removed from the site and replaced with acceptable plant material at no extra cost.

Plant material shall be planted at such times hereinafter specified after locations are inspected and approved.

TIME OF PLANTING:

Unless otherwise directed by the Project Manager, trees, shrubs, and groundcover shall be planted from March 1st to May 1st and from October 15th to December 15th.

CONSTRUCTION DETAILS:

A. Excavation of Plant Pits

Trees shall be planted in a pit with a diameter twenty four (24) inches wider than the diameter of the ball of earth and six (6) inches deeper than the depth of the ball. Where subsurface obstructions are encountered, the Contractor shall restore the disturbed area to its original condition. A new pit location will then be designated by the Project Manager.

B. Topsoil

Should existing topsoil be unsuitable as determined by the Project Manager, the topsoil shall be replaced by the Contractor and the unsuitable material removed from the site by the Contractor at his expense. The following soil amendments shall be applied to each planting pit:

- Fafard "Complete Planting Mix" 30 Quart Bag
- PHC "Healthy Start Macro Tablets"
- Mycor Tree "Tree Saver Transplant"

The new topsoil to be used shall conform to the following sections or items of the most current addition of the New York State Department of Transportation Standard Specifications as amended:

- Topsoil , Section 713-01
- Limestone. Section 713-02

C. Mulch

Tree and plant bed areas shall be mulched with a 3" layer of fibrous wood mulch approved by the Project Manager. The Contractor shall also install a layer of landscape fabric landscaping material (minimum thickness to be 4 mils.) under the layer of mulch. They shall be cultivated and raked over and they shall be left in a clean, orderly condition with shallow basins or "saucers" 6" high, at least as large as the holes in which the trees and plants have been planted.

D. Staking

All staking shall be done immediately after planting and all stakes and wires shall be maintained for one (1) year after completion of the contract. Plants shall stand plumb after staking.

One month prior to end of guarantee period, the Contractor shall remove all stakes, guy wires and wrapping from plant material unless otherwise directed by the Town. Removal and disposal of such shall be at the Contractor's expense and the cost therefore included in the contract bid price.

Stakes shall be white cedar with bark attached. The length of stakes shall be as specified on the plans. The diameter at the middle shall not be less than two (2) inches nor more than two and three-quarter (2-3/4) inches; the diameter at the top shall not be less than one and three-quarter (1 3/4) inches and the diameter at the butt shall not exceed three (3) inches. They shall have a maximum allowable deflection often (10) percent. Stakes shall be placed from the trunk of the tree, taking care to clear the root ball.

They shall be driven at least twelve (12) inches below the bottom of the plant pit and shall be fastened to the tree with double No. 12 gauge annealed galvanized steel wire run through a suitable length of new reinforced black rubber hose around the trunk (2 per tree).

E. Preparation of Trees

All precautions customary in good trade practices shall be taken in preparing trees for moving, and workmanship that fails to meet the highest standards will be rejected. Trees should be dug immediately before moving, unless otherwise specified. All trees should be dug to retain as many fibrous roots as possible. Balled and burlapped trees shall have a solid ball of earth with a width and depth measured according to the following formulae:

Width = 9-12 inches in diameter/every 1 inch of tree diameter

Depth = 6 inches/every 1 inch of tree diameter

The root ball should be held in place by biodegradable burlap and stout rope or twine. Oversized trees will be acceptable providing the ratio of root-to-shoot size is proportionally maintained. Loose, broken, or manufactured balls will be rejected. If used, ball-supporting devices, such as wire baskets, shall hold the ball in a firm, rigid condition.

F. Method of Measurement

The quantity of trees to be paid under this item shall be the number of 2 - 2.5 inch trees of each size and species supplied, planted and maintained, in accordance with details and specifications provided, to the satisfaction of the Project Manager.

G. Replacement

The Contractor shall replace in accordance with the contract plans and specifications any plant material that is dead or, in the opinion of the Project Manager, is in an unhealthy or unsightly condition, and/or, excessive pruning, inadequate or improper maintenance, or other causes, by the date of one (1) year after the final acceptance and completion of the whole work of this contract, at no additional cost to the Town.

Where vandalism is agreed by the Project Manager as the cause for replacement, the Contractor shall not be responsible for replacement during the guarantee period after final acceptance.

H. Basis of Payment

The price bid shall be a unit price per tree, for each item as specified and shall include the cost of excavating plant pits, furnished plants and inspecting, all trees, mulch and all other work incidental thereto in accordance with the plans and specifications to the satisfaction of the Project Manager. Topsoil required for backfilling trees shall be included in the price bid for each tree and shall be supplied by the Contractor from an outside source.

NOTE: A PERFORMANCE BOND IN THE AMOUNT OF \$20,000.00 IS REQUIRED OF THE SUCCESSFUL BIDDER

Successful bidder will also be required to submit certified payrolls. Failure to do say may cause payments to be withheld.