



DESIGN STANDARDS FOR: TREE PROTECTION

1. Protection requirements:
 - a. All protected trees shall be protected before work commences.
 - b. Temporary orange mesh fence (for sloped areas) or chain link fence (for generally level areas) shall be placed at the edge of tree protection area of tree to be saved. Fence shall completely encircle tree(s). Install fence posts using pier blocks only. Avoid driving posts or stakes into major roots, where the orange mesh fencing is used.
 - c. Treatment of roots exposed during construction: For roots over 1" in diameter damaged during construction, make a clean straight cut to remove damaged portion of root. All exposed roots shall be temporarily covered with damp burlap to prevent drying and covered with soils as soon as possible.
 - d. Work within protection fence shall be done manually, unless the Owner otherwise authorizes alternative methods in writing prior to work being done. No stock piling of materials, vehicular traffic, or storage of equipment or machinery shall be allowed within the limit of the fencing without the Owner's prior written approval.
2. Guarantee:
 - a. If the Contractor damages or destroys an existing tree, shrub and/or groundcover which he/she has been directed to preserve due to failure to comply with Specifications and Drawings, the Contractor shall replace it at the following rate:
 - i. Trees: one for one at the same specie, size and grade.
 - ii. Shrubs: one for one at a twenty-four (24) inch height, same specie and grade.
 - iii. Groundcover: one for one in one (1) gallon containers spaced at eighteen (18) inches on center, same specie, and grade.
 - b. Plants shall be healthy and acceptable to the Owner.
 - c. The contractor shall guarantee that the tree, shrub and/or groundcover shall live for a period of one (1) year from Owner's Acceptance.
 - d. Damaged and destroyed trees which cannot be replaced shall be paid for at the rate of \$50.00 per square inch of cross sectional area measured three (3) feet above existing grade for trees up to and including six (6) inch caliper and at the rate of \$100.00 per square inch of cross sectional areas measured three (3) feet above existing grade for trees greater than six (6) inches in caliper. This amount shall be credited to the Owner.
 - e. At the Owner's direction, remove any damaged and destroyed trees from the site. Grub stumps and repair the ground surface. All costs shall be born by the Contractor.
3. Measurement and Payment:
 - a. Tree protection fencing, surface protection, and tunneling costs shall be considered incidental to the cost of construction.

END OF SECTION