

## SECTION 32 01 90.33

### PROTECTION/REPAIR OF EXISTING TREES

#### PART 1 - GENERAL

##### 1.01 WORK INCLUDED

- A. Protecting existing trees.

##### 1.02 RELATED SECTIONS AND DOCUMENTS

- A. Section 31 10 00: Site Clearing.
- B. Section 32 20 00: Earth Moving.

#### PART 2 - PRODUCTS

##### 2.01 MATERIALS

- A. Orange safety fence.

#### PART 3 - EXECUTION

##### 3.01 INSTALLATION

- A. All trees within area available to the Contractor for construction shall be protected with orange safety fence around the trunk and dripline of the tree.
- B. When setting up construction limits lines for construction, construction access and material storage, the Contractor shall fence or similarly protect restricted zones around all trees. These restricted zones shall extend from dripline to dripline. In any areas where the restricted zones must be violated, it shall be done only with the approval by the DPS Grounds Department. If access is allowed within these areas the use of heavy construction equipment shall be severely restricted in order to mitigate soil compaction and damage to tree roots.
- C. If tree roots larger than three (3) inches in diameter are encountered when digging or trenching they shall be tunneled under for the placement of pipe, or other improvements. Where tree roots smaller than three (3) inches in diameter are in direct conflict with the exact final physical location of any of the proposed improvements, the roots shall be hand pruned with a saw. Do not tear the roots out. The removal of three (3) inches or larger diameter roots encountered during construction will not be allowed.
- D. Aeration: If areas inside the restricted zone become compacted, the contractor shall use a grow gun or equal to fracture the soil. Fracturing penetration shall be 5' on center throughout the compacted areas.
- E. Supplemental watering shall be applied with a deep root feeder, with about 100 gallons per tree per week if loss of ground cover (grass) or heating of the tree roots occur during construction.
- F. No chemicals shall be applied or used around or near existing trees.

##### 3.02 PROTECTION

- A. General: Continue to protect trees throughout the completion of construction.
- B. When construction is complete, remove orange safety fence from around trees.
- C. If it appears that the completion of the construction may cause damage to the branches of any trees, the Contractor shall contact the DPS Grounds Department. The Forester will make a determination as to whether such damage is eminent. If so, the Forestry Department will prune the trees to facilitate the construction.
- D. For each tree erroneously removed or damaged beyond repair, an assessment shall be withheld for the Contractor's progress payments. This assessment shall be equal to the value of the tree prior to damage as determined by the DPS Grounds Department and the Parks and Recreation Representative.

- E. In addition to paying the assessment, the contractor shall replace each damaged tree with nursery grown material of the same or approved species and approved size.

**END OF SECTION 32 01 90.33**