

## **580-40 TREE TRIMMING AND REMOVAL.**

**(REV 10-2-15) (1-18)**

The following new Section is added after Section 571:

### **SECTION 580-40 TREE TRIMMING AND REMOVAL**

#### **580-40.1 Description.**

Trim or prune trees and vegetation, remove undesired trees and vegetation, and dispose of resulting debris as directed in work document.

Perform all work meeting the requirements of recognized and approved arboriculture principles with emphasis on tree health and symmetry as set forth in *The American National Standard for Tree Care Operations – Tree, Shrub and Other Woody Plant Maintenance – Standard Practices* (ANSI A300). Perform all work without damage to trees and shrubs that are intended to remain in the work area.

Prior to beginning work, report all damaged fence, fence posts and other appurtenances within the right-of-way to the Engineer.

#### **580-40.2 Equipment.**

Use equipment designed for the performance of work described herein. Maintain equipment in good repair and operating condition at all times, meeting all applicable safety requirements. Maintain safety devices at all times while the equipment is in use.

Do not use equipment on the Department's right-of-way that damages pavement, curbs, drainage structures, sidewalks, guardrail turf areas, or any other Department assets. Repair damage resulting from work activities to meet the requirements of the current edition of the Department's Design Standards at no cost to the Department before resuming project activities.

#### **580-40.3 Tree Trimming.**

**580-40.3.1 General:** Trim the trees to the height and width described in the work document. Remove all dead, dying, diseased, decaying, interfering, suckering, obstructing and weak branches.

**580-40.3.2 Crown Reduction:** Ensure the natural shape and structure of the tree should be maintained. If the height of a tree must be reduced, all cuts will be made to strong laterals or to the parent limb.

**580-40.3.3 Power Shearing:** Cut and trim vegetation to the height and width described in the work document using mobile, mechanical equipment capable of vertical, horizontal and angle cuts.

#### **580-40.4 Tree and Shrub Removal.**

**580-40.4.1 General:** Cut and remove trees and shrubs within the right-of-way at the locations specified in the work document or Contract. When necessary for the protection of public safety, use block and tackle to safely lower the severed branches and trunk sections. Remove the main trunk at or below the ground surface.

Treat the stumps with herbicide labeled for stump use and approved by the Engineer. Use of soil sterilant or residual type materials will not be permitted.

Ensure trees marked by the Engineer to remain are not to be removed or damaged.

**580-40.4.2 Shrub Removal:** Cut and remove vegetation with multiple trunks extending from a common root-base (i.e., Brazilian pepper, myrtle, palmettos, bamboo, palms, etc.) flush with the ground surface. Remove all stumps and debris.

**580-40.4.3 Tree and Shrub Removal from Fence Lines:** Unless specified elsewhere in the Contract Documents or Work Document, when removing tree and shrubs adjacent to the fence create a fence corridor with minimum dimensions of 10 feet wide and 15 feet high.

Create access corridors from the roadway to the corridor adjacent to the fence at locations determined by the Engineer. The minimum corridor dimensions shall be 10 feet wide and 15 feet high.

#### **580-40.5 Stump Removal**

Remove stumps (including protruding roots and debris) to a depth of 12 inches below the surface of the original ground. Provide acceptable fill material, grade and compact holes or voids created by the removal of the stumps.

#### **580-40.6 Disposal of Debris.**

Dispose of all debris and waste in compliance with all Federal, State, and Local Rules and Regulations.

Debris may be stockpiled in the Department's right-of-way for a period of time determined by and with the written approval of the Engineer.

With the approval of the Engineer, wood chips or grindings may be evenly distributed to a depth of no more than one inch in designated areas in the Department's right-of-way.

#### **580-40.7 Quality.**

Ensure the work site and adjacent properties are clean and free of trimmings, stumps, roots, logs or any other debris at all times.

#### **580-40.8 Method of Measurement.**

As indicated by the pay items in the work document, payment will be for the actual measured quantities of work performed and accepted. Gaps or skips greater than 150 feet will not be included in the measurement for payment to the contractor.

When the method of compensation for tree removal is an each pay item, the size is determined by the measured diameter rounded to the nearest inch at four and one half feet above the existing ground. Vegetation with multiple trunks extending from a common root-base will be measured at a point one half the distances between the ground and the first stem or branch and will be considered as one tree.

When the method of compensation for pruning and trimming is an each pay item, the payment will be for each tree not per branch. The size is determined by the measured diameter rounded to the nearest inch at four and one half feet above the existing ground. Vegetation with multiple trunks extending from a common root-base will be measured at a point one half the distances between the ground and the first stem or branch and will be considered as one tree.

When the method of compensation for stump removal is an each pay item, the size is determined by the measured diameter of the stump rounded to the nearest inch at a point flush with the ground line as determined by the Engineer.

**580-40.9 Basis of Payment.**

Price and payment will be full compensation for all work and materials specified in this Section.

Payment will be made under the items specified in the Bid Price Proposal.