

**SECTION 31 10 00  
SITE CLEARING**

**PART 1      GENERAL**

**1.01      DEFINITIONS**

- A.    Clearing: Removal of interfering or objectionable material lying on or protruding above ground surface including but not limited to stumps, bushes, rubbish, refuse, and other deleterious materials.
- B.    Debris: Broken concrete or asphalt, trash, rubbish, rubble, destroyed ruins or other similar items.
- C.    Grubbing: Removal by raking or by excavation of vegetation and other organic matter including stumps, debris, grass, buried logs, and roots greater than 2-inch caliper to depth of 6 inches below subgrade.
- D.    Interfering or Objectionable Material: Trash, rubbish, and junk; vegetation and other organic matter, whether alive, dead, or decaying; topsoil.
- E.    Project Limits: Areas, as shown or specified, within which Work is to be performed.
- F.    Scalping: Removal of sod without removing more than upper 3 inches of topsoil.
- G.    Stripping: Removal of topsoil remaining after applicable scalping is completed.
- H.    Tree Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction and defined by drip line of individual trees or perimeter drip line of groups of trees, unless otherwise indicated.

**1.02      SUBMITTALS**

- A.    Action Submittals: Overall Site Plan along with applicable drawings clearly showing clearing, grubbing, and stripping limits for planned work prior to construction and as part of the Quality Assurance.
- B.    Information Submittals: Provide survey information delineating limits of debris disposal and burn pile location if applicable. Survey to include top elevation of piles.

### 1.03 QUALITY ASSURANCE

- A. Obtain approval by Contracting Officer of staked clearing, grubbing, and stripping limits, prior to commencing clearing, grubbing, and stripping.
- B. Comply with Section 01 35 00, Environmental Protection and Special Controls, for Topsoil salvage.

### 1.04 SCHEDULING AND SEQUENCING

- A. Prepare Site only after adequate erosion and sediment controls are in place and in accordance with Section 01 57 13, Temporary Erosion and Sediment Control.

## **PART 2 PRODUCTS (NOT USED)**

## **PART 3 EXECUTION**

### 3.01 GENERAL

- A. Comply with federal, state, and local regulations concerning control of erosion and sediment. Sequence work to reduce erosion as directed in construction sequence. Comply with erosion and sedimentation regulations and permit conditions.
- B. Do not commence site clearing operations until temporary erosion and sedimentation control measures are in place.
- C. Locate and clearly flag trees and vegetation to remain in accordance with Section 32 01 90, Tree and Shrub Preservation.
- D. Clear, grub, and strip areas needed for waste disposal, borrow, or Site improvements within limits shown or specified.
- E. Do not injure or deface vegetation that is not designated for removal.
- F. Protect remaining Site improvements from damage during construction. Restore damaged improvements to their original condition.

### 3.02 TREE PROTECTION

- A. Where excavation for new construction is required within tree protection zones, hand clear and excavate to minimize damage to root systems. Cleanly cut roots as close to excavation as possible.

- B. Repair or replace trees and vegetation indicated to remain that are damaged by construction operations.
- C. Review permits and applicable tree preservation plans prior to construction.

### 3.03 UTILITY LINE PROTECTION

- A. Verify existing utilities had been identified and flagged in field.
- B. Protect existing utility lines that are indicated to remain from damage.
- C. Repair damage to existing utility lines identified to remain.
- D. Coordinate in accordance with Section 01 31 00, Project Management and Coordination.

### 3.04 LIMITS

- A. As follows, but not to extend beyond Project limits.
  - 1. Excavation 5 feet beyond top of cut slopes.
  - 2. Fill:
    - a. Clearing and Grubbing: 5 feet beyond toe of permanent fill.
    - b. Stripping and Scalping: 2 feet beyond toe of permanent fill.
  - 3. Waste Disposal:
    - a. Clearing: 5 feet beyond perimeter.
    - b. Scalping and Stripping: Not required.
    - c. Grubbing: Around perimeter as necessary for neat, finished appearance.
  - 4. Structures: 15 feet outside of new structures.
  - 5. Roadways: Clearing, grubbing, scalping, and stripping 15 feet from centerline.
  - 6. Other Areas: As shown.
- B. Remove rubbish, trash, and junk from entire area within Project limits.

### 3.05 CLEARING

- A. Clear areas within limits shown or specified.
- B. Timber Removal:
  - 1. Fell trees so they fall away from facilities and vegetation not designated for removal.
  - 2. Remove felled timber.
  - 3. Clearing materials are not allowed to be placed in wetlands, streams, buffers, or lakes.

- C. Cut stumps not designated for grubbing to within 6 inches of ground surface.
- D. Cut off shrubs, brush, weeds, and grasses to within 2 inches of ground surface.

### 3.06 GRUBBING

- A. Grub areas within limits shown or specified.

### 3.07 SCALPING

- A. Do not remove sod until after clearing and grubbing is completed and resulting debris is removed.
- B. Scalp areas within limits shown or specified.

### 3.08 STRIPPING

- A. Do not remove topsoil until after scalping is completed.
- B. Strip areas within limits to minimum depths shown or specified. Do not remove subsoil with topsoil.
- C. Stockpile strippings, meeting requirements of Section 32 91 13, Soil Preparation, for topsoil, separately from other excavated material.

### 3.09 MERCHANTABLE TIMBER

- A. Saleable logs will remain property of Government and be stored in a pile in a location suitable to the Contracting Officer.

### 3.10 TREE REMOVAL OUTSIDE CLEARING LIMITS

- A. Remove Within Project Limits:
  - 1. Dead, dying, leaning, or otherwise unsound trees that may strike and damage Project facilities in falling.
  - 2. Trees designated by site design.
- B. Cut stumps off flush with ground, remove debris, and if disturbed, restore surrounding area to its original condition.

### 3.11 SALVAGE

- A. Saleable log timber will remain property of Government as determined by the Contracting Officer.
- B. Sod with commercial value will remain property of Government.

### 3.12 DISPOSAL

- A. Timber: Remove felled timber that cannot be sold from Site.
- B. Clearing and Grubbing Debris:
  - 1. Burning of combustible debris onsite will not be allowed.
  - 2. Dispose of debris offsite.
- C. Scalpings: As specified for clearing and grubbing debris.

### 3.13 EROSION AND DUST CONTROL

- A. Perform clearing and grubbing operations to minimize erosion and dust transport.
- B. Provide additional protective measures to prevent sediment and dust from being removed from Site.
- C. Provide equipment or stabilize areas to prevent dust.

**END OF SECTION**

