

SECTION 31 11 00  
**CLEARING AND GRUBBING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section governs the furnishing of all labor, equipment, tools, and materials, and the performance of all work for clearing, grubbing, and disposal of material within the work site required for construction of a site in accordance with specification requirements.

**1.2 DEFINITIONS**

- A. Clearing consists of cutting off trees and brush vegetative growth to not more than a specified height above ground and disposing of felled trees, previously uprooted trees and stumps, and surface debris.
- B. Close-cut clearing consists of cutting off standing trees, brush, scrub, roots, stumps and embedded logs, removing at, or close to, existing grade and disposing of fallen timber and surface debris.
- C. Clearing isolated trees consists of cutting off to not more than specified height above ground of designated trees, and disposing of felled trees and debris.
- D. Underbrush clearing consists of removal from treed areas of undergrowth, deadwood, and trees smaller than 50 mm trunk diameter and disposing of all fallen timber and surface debris.
- E. Grubbing consists of excavation and disposal of stumps and roots boulders and rock fragments of specified size to not less than a specified depth below existing ground surface.

**1.3 MEASUREMENT AND PAYMENT**

- A. This item will be measured by the acre unless otherwise shown on the bid documents.
- B. For “acre” measurement, the work performed in accordance with this item and measured as provided under “measurement” will be paid for at the unit price bid for “Clearing and Grubbing.” This price is full compensation for pruning of designated trees, and shrubs; removal and disposal of structures and obstruction; backfilling of holes; furnishing and placing concrete for plugs; and equipment, labor, tools and incidentals.

**1.4 SUBMITTALS**

- A. Burn permits shall be submitted to the owner prior to burning of vegetation.
- B. Notice of Intent (NOI) and Stormwater Pollution Prevention Plan (SWPPP) or cause for exemption.
- C. Proof of legal disposal of all hazardous material shall be required when hazardous material is involved.

## **1.5 STORAGE AND PROTECTION**

- A. Prevent damage to fencing, trees, landscaping, natural features, bench marks, existing buildings, existing pavement, utility lines, site appurtenances, water courses, root systems of trees which are to remain.
- B. Repair any damaged items to approval of Engineer/Architect. Replace any trees designated to remain, if damaged, as directed by Engineer /Architect.
- C. When shown on the plans, treat cuts on trees with an approved tree wound dressing within 20 minutes of making a pruning cut or otherwise causing damage to the tree.

## **1.6 WASTE MANAGEMENT AND DISPOSAL**

- A. Follow all local and state regulations when burning, if burning of brush is approved, pile and burn at approved locations.
- B. Testing, removal and disposal of hazardous materials will be in accordance with the contract.

## **PART 2 – PRODUCTS**

N/A

## **PART 3 - EXECUTION**

### **3.1 PREPARATION**

- A. Inspect site and verify with Engineer/Architect, items designated to remain.
- B. Locate and protect utility lines. Preserve in operating condition active utilities traversing site:
  - 1. Notify Engineer/Architect immediately of damage to or when unknown existing utility lines are encountered.
  - 2. When utility lines which are to be removed are encountered within area of operations, notify Engineer/Architect in ample time to minimize interruption of service.
- C. Notify utility authorities before starting clearing and grubbing.
- D. Keep roads and walks free of dirt and debris.

### **3.2 CLEARING**

- A. Clear areas shown on the plans of all obstructions, except those landscape features that are to be preserved. Such obstructions include but are not limited to remains of houses and other structures, foundations, floor slabs, concrete, brick, lumber, plaster, septic tank drain fields, basements, abandoned utility pipes or conduits, equipment, fences, retaining walls, and other items as specified on the plans. Remove vegetation and other landscape features not designated for preservation, curb and gutter, driveways, paved parking areas, miscellaneous stone, sidewalks, drainage structures, manholes, inlets, abandoned railroad tracks, scrap iron, and debris, whether above or below ground. Removal of live utility facilities is not included in this item. Remove culverts, storm sewers, manholes and inlets in proper sequence to maintain traffic and drainage.

- B. In areas receiving embankment, remove obstructions not designated for preservation to 2 ft. below natural ground. In areas to be excavated, remove obstruction to 2 ft. below the excavation level. In all other areas, remove obstruction to 1 ft. below natural ground. When allowed by the plans or directed, cut trees and stumps off to ground level. Plug the remaining ends of abandoned underground structures over 3 inches in diameter with concrete to form a tight closure. Backfill, compact, and restore areas where obstructions have been removed, unless otherwise directed. Use approved material for backfilling. Accept ownership, unless otherwise directed, and dispose of removed materials and debris at location off the sight in accordance with local, state and federal requirements.

**END OF SECTION**