

SECTION 202 -- CLEARING AND GRUBBING

202.01 -- Description

1. This work shall be described as either "General Clearing and Grubbing" or "Large Tree Removal" in the plans and the bid proposal Schedule of Items.

2. a. Clearing and Grubbing is a lump sum bid item that includes:

(1) "Clearing" -- removing and disposing of all unwanted material from the surface, such as trees, vegetation, boulders, and trash.

(2) "Grubbing" -- removing and disposing of all unwanted material from underground, such as sod, boulders, stumps, roots, buried logs, or other debris.

b. The Contractor will be responsible for determining the number of trees of all sizes that are to be removed during the work of general clearing and grubbing.

3. Large tree removal includes "General Clearing and Grubbing". It is a by-the-each bid item.

4. a. With either "General Clearing and Grubbing" or "Large Tree Removal", the Contractor shall remove all living or dead vegetation, including trees, and trash from within the limits of construction and the lateral obstacle clearance zone, including borrow pits and channel changes unless designated to remain.

b. Live trees, hedges, shrubs, or grass designated to remain shall be protected as shown in the plans.

c. Work within the right-of-way and outside the limits of construction or lateral obstacle clearance zone shall be performed in a manner as to preclude injury or damage to live trees in excess of 75 mm in diameter.

d. Trash and dead vegetation in the right-of-way limits and beyond the limits of construction shall be disposed of by the Contractor.

202.02 -- Construction Methods

1. The Contractor shall remove and dispose of unwanted material designated by the Engineer.

2. a. All stumps, including large roots, shall be removed to a depth of at least 150 mm below the preconstruction ground level or the finished grade elevation in cut sections. An approved mechanical stump chipper may be used for this work.

b. When authorized by the Engineer, the Contractor may leave stumps, roots, and nonperishable solid objects in place provided that such objects will be a minimum of 1 m below subgrade or embankment slopes. These stumps will be cut to within 300 mm of the original ground surface.

3. The Contractor's clearing and grubbing responsibilities also include the following:
 - a. Removing large rocks and boulders and other unsightly matter within the limits of construction and the lateral obstacle clearance zone.
 - b. Filling holes; smoothing and contouring the ground.
 - c. Shaping the ends of cuts and fills to fit adjacent terrain and to enhance the area's appearance.
4. The following restrictions shall apply to material disposal:
 - a. Disposal shall be in accordance with all local, State, and Federal regulations.
 - b. The Contractor shall not leave material within the floodplain of any channel.
 - c. The Contractor shall not leave material within 300 m of the right-of-way of the project or any public road unless it is not visible from the traveled way.
 - d. The Contractor may enter into agreements with adjacent landowners or other persons for the disposal of trees after they have been cleared. Any such agreement must be in full compliance with all conditions established in the contract.

202.03 -- Method of Measurement

1. "General Clearing and Grubbing" will be a lump sum pay item. General Clearing and Grubbing includes removing all trees.
2.
 - a. "Large Tree Removal" is measured by counting the trees actually removed.
 - b. Trees whose circumference exceeds 1 m at 1 m above ground level and stumps whose circumference exceeds 1 m at (or near) ground level are to be counted to establish the pay quantity.
 - c. "Large Tree Removal" includes clearing and grubbing of all areas within the construction limits and the lateral obstacle clearance zone but the clearing and grubbing is not measured.

202.04 -- Basis of Payment

1.	<u>Pay Item</u>	<u>Pay Unit</u>
	General Clearing and Grubbing	Lump Sum (LS)
	Large Tree Removal	Each (ea)

2. No direct payment will be made for tree protection, but shall be considered the duty of the Contractor as described in Subsection 107.09.

3. All clearing and grubbing is subsidiary to the pay item "Large Tree Removal."
4. All tree removal is subsidiary to the pay item "General Clearing and Grubbing."
5. Payment is full compensation for all work prescribed in this Section.