

**SECTION 203****GRUBBING****INDEX****203.01 DESCRIPTION****203.02 GRUBBING OPERATION****203.03 MEASUREMENT AND BASIS OF PAYMENT****203.01 DESCRIPTION**

Grubbing shall consist of the removal and disposal of all stumps, roots, surface boulders, embedded logs, debris, matted roots, and other vegetation from areas designed to be grubbed, and shall be performed by the Contractor on the sites of excavation and embankments together with other areas not affected by grading operations as directed by the Engineer. However, grubbing will not normally be performed on areas selected as borrow pits and quarries unless otherwise directed by the Engineer.

Where directed by the Engineer, trees, stumps and brush shall be cut even with the ground in order not to disturb the natural matting and this "close cutting" will be paid for as grubbing.

**203.02 GRUBBING OPERATIONS**

Areas in which grubbing is to be carried out will be staked on the ground beforehand by the Engineer. Under fills, areas to be grubbed will normally be determined in accordance with the spirit of the guidelines in Section 1208.

Where grubbing is required near a watercourse or water body; the Contractor shall ensure that a minimum 15 m "no grub" zone is left between the watercourse or water body and adjacent work area. This "No Grub" buffer area shall be clearly marked in the field by the Engineer prior to any grubbing so that the area is visible to heavy equipment operators. Where possible, ditch waters shall be directed to existing vegetation at least 30 m from watercourse crossing locations rather than directly discharging to the watercourse.

Surface boulders, regardless of their size, shall be considered as part of grubbing debris. All surface boulders shall be removed and disposed of along with the other grubbing debris, except such boulders which in the opinion of the Engineer can be incorporated in the project.

Grubbing shall be disposed of in a manner approved by the Engineer. The Contractor shall haul away and dispose of the grubbing debris in an approved waste disposal area. The approved waste disposal area shall be provided by the Contractor at his own expense. Grubbing debris shall be trimmed to sightly proportions.

Grubbing operations as directed by the Engineer shall be carried out for a distance of at least one kilometre in advance of grading operations, excepting where grubbing and excavation are permitted as a joint operation.

**203.03 MEASUREMENT AND BASIS OF PAYMENT**

Measurements will be made of the horizontal area actually grubbed or close cut, as required by the Engineer. These measurements shall be computed to obtain the area in hectares, measured to three decimal places.

Grubbing or close cutting beyond the limits staked will not be measured for payment.

No payment, other than that provided for in the contract price for grubbing, will be made for topsoils and surface boulders removed by grubbing operations, or for any and all haulage involved in grubbing disposal.

Cross sectioning for purposes of payment for excavated quantities for other items appearing in the contract documents will not be done until grubbing or clearing and grubbing operations in the designated area are completed.

Payment at the contract price for grubbing shall be compensation in full for all labour, materials and equipment-use to carry out the work indicated in this specification or in any way connected with these operations.