

B201-3 - GRUBBING (OPSS 201)

201-3.1 GENERAL

Grubbing consists of the removal and disposal of all stumps, roots, embedded logs, debris and second growth, with the operation usually being performed immediately following, and as part of, the same contract as clearing or close cut clearing.

Where the right-of-way, or a portion thereof, has been previously cleared or close cut cleared (under a separate contract, or by Operational Services), the Contractor will, under the item "Grubbing", clear, remove and dispose of all second growth, brush and debris from those areas designated for grubbing.

When grubbing requirements are minor, the work may be done by Operational Services, with funds provided from 'Services (Sundry)' - (see Chapter 'D').

Surface boulders lying within areas designated for grubbing are removed as part of the work of grubbing, except those one cubic metre (1.0 m³) or larger in volume which are removed under the item "Rock Excavation (Grading)". For treatment of boulders see section CDED B201-4.

201-3.2 REFERENCES

CDED B201-1 - Clearing
 CDED B201-4 - Removal of Boulders
 CDED B206-1 - Earth Excavation (Grading)
 CDED Chapter D - Services and Acquisition - Construction

201-3.3 TENDER ITEMS

0201-0075	Grubbing	(normal, square metre, PQP)
0201-0080	Grubbing	(normal, each, PQP)

201-3.4 SPECIFICATION

The requirements for grubbing are contained in OPSS 201.

201-3.5 SPECIAL PROVISIONS

Refer to chapter `E' of this Manual to review applicable standard special provisions.

201-3.6 STANDARD DRAWINGS - None

201-3.7 DESIGN**201-3.7.1 Limits of Grubbing**

Fig. B201-2-1 in CDED B201-1 shows in principle the application of grubbing.

The designer should discuss the limits of grubbing for each project with:

- The Regional Maintenance Office
- The Regional Construction Office
- The Utility Co-Ordinator
- The Regional Environmental Section

201-3.7.2 Grubbing and Advance Grubbing for Utility Relocation and Fencing

Grubbing operations, including advance grubbing, for utility relocations and fencing are governed by the same principles outlined in CDED B201-1.

201-3.7.3 Areas of Grubbing

Areas to be grubbed are:

- a) Excavation areas (except swamp excavation);
- b) Under low embankments - up to and including 1.2 metres in height;
- c) Offtake ditches and watercourse corrections.

Where swamp excavation is required, embedded low stumps, etc. will be removed as part of swamp excavation (see CDED B206-1).

201-3.7.4 Disposal of Debris

Debris from grubbing operations may be disposed of both on and off the right-of-way.

In bush areas, debris such as stumps, roots, earth, usually is pushed onto adjacent private or Crown lands under agreement with the owner or Ministry of Natural Resources respectively, and with the approval of the Ministry of the Environment; all arrangements for disposal being the responsibility of the Contractor. Alternatively, debris may be pushed to the back of the right-of-way and, in suitable areas, incorporated into the flattening of sideslopes, but in no case will it be disposed of within embankments.

Surface litter and second-growth material may be burned on the right-of-way, under those conditions stated in CDED B201-1.

In rare cases, debris may require hauling off the right-of-way, to disposal sites arranged for by the Contractor.

201-3.8 COMPUTATION

These are Plan Quantity Payment items.

Computation procedures for grubbing are the same as those for clearing (see CDED B201-1).

201-3.9 DOCUMENTATION

Documentation procedures for grubbing are the same as those for clearing (see CDED B201-1).

201-3.9.1 Documentation Accuracy

Chainage Stations: One-tenth of a metre (0.1m)

Chainage offsets: One-tenth of a metre (0.1m)

Areas in square metres: One square metre (1.0 m²)

In calculating areas, work to one extra place of decimals and record to the accuracy shown above.