



Note: The PROV published in April 2019 replaces OPSS 201 COMMON, November 2011 with no technical content changes.

**CONSTRUCTION SPECIFICATION FOR
CLEARING, CLOSE CUT CLEARING, GRUBBING,
AND REMOVAL OF SURFACE AND PILED BOULDERS**

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201.01 SCOPE

This specification covers the requirements for the removal of trees, brush, bushes, stumps, windfalls, surface boulders, and piled boulders.

201.02 REFERENCES

This specification refers to the following standards, specifications, or publications:

Ontario Provincial Standard Specifications, Construction

OPSS 206 Grading

Ontario Government Publications

Crown Forest Sustainability Act, 1994, S.O. 1994, c. 25

201.03 DEFINITIONS

For the purpose of this specification, the following definitions apply:

Clearing means the cutting of all standing trees, brush, bushes, and other vegetation to a maximum height of 300 mm above original ground level and the removal of felled materials and windfalls.

Close Cut Clearing means the cutting of all standing trees, stumps, brush, bushes, and other vegetation at original ground level and the removal of felled materials and windfalls.

Grubbing means the removal of all stumps, roots, embedded logs, debris, and secondary growth.

Piled Boulders means any cobbles, boulders, or rock fragments that have been placed in fencerows or piles.

Rock means rock as defined in OPSS 206.

Surface Boulder means any boulder or rock fragment that measures 200 mm or greater in any one dimension, extends a minimum of 200 mm above original ground, and can be removed without excavation.

201.04 DESIGN AND SUBMISSION REQUIREMENTS

201.04.01 Submission Requirements

201.04.01.01 Crown Forest

Crown forest, as defined by the Crown Forest Sustainability Act, shall not be cut until a permit has been obtained from the Ministry of Natural Resources and Forestry (MNRF).

201.07 CONSTRUCTION

201.07.01 General

Trees measuring 150 mm or more in diameter, measured 1.0 m above ground, shall be cut, limbed, and stacked for collection by others. Cut trees shall not be stacked in or transported through areas identified as being environmentally sensitive in the Contract Documents or elsewhere by an Authority.

When specified in the Contract Documents, cut trees shall be stacked outside and adjacent to the right-of-way for the property owner, adjacent to and between the stations listed.

Within Crown Land areas specified in the Contract Documents for clearing and close cut clearing, marketable timber shall be made available for purchase from the Contractor to the holder of the sustainable forest licence. All cut and stacked trees shall be cut into lengths agreed to by the Contractor and the sustainable forest licence holder, but in no case exceeding 5.0 m.

All timber not purchased by others or stacked for adjacent landowners is excess material.

The work shall not damage or disturb the area outside the areas specified in the Contract Documents.

When work is done in or near waterbodies or waterbody banks, the work shall be according to the Contract Documents.

201.07.02 Clearing

The work shall consist of clearing all areas of earth excavation, earth surfaces to be covered by embankments up to and including 1.2 m in height, and any other areas specified in the Contract Documents.

201.07.03 Close Cut Clearing

The work shall consist of close cut clearing all earth surfaces to be covered by embankments greater than 1.2 m in height, and any other areas specified in the Contract Documents.

201.07.04 Grubbing

The work shall consist of grubbing all areas of earth excavation, earth surfaces to be covered by embankments up to and including 1.2 m in height, and any other areas specified in the Contract Documents.

Grubbing is not required in swamps.

Mechanical stump cutters are permitted, provided the entire root structure is removed.

Depressions remaining after grubbing shall be backfilled with suitable earth material and compacted to avoid settlement.

When clearing has been previously completed by others, all secondary growth, brush, and debris shall be removed.

Piled boulders and surface boulders that are not specified in the Contract Documents for removal and lie within areas to be grubbed shall be removed.

201.07.05 Removal of Surface Boulders and Removal of Piled Boulders

The work shall consist of the removal of surface boulders and removal of piled boulders within the areas specified in the Contract Documents.

Depressions remaining after removal shall be backfilled with suitable earth material and compacted to avoid settlement.

201.07.06 Mechanical Stump Cutting

The work shall consist of mechanical cutting of stumps to a depth of 150 mm below original grade, as specified in the Contract Documents.

201.07.07 Management of Excess Material

Management of excess material shall be according to the Contract Documents.

201.09 MEASUREMENT FOR PAYMENT

201.09.01 Actual Measurement

Measurement shall be by area or by each, as specified in the Contract Documents.

201.09.01.01 Clearing, Close Cut Clearing, and Grubbing

Measurement of clearing, close cut clearing, and grubbing shall be by area or by each, as specified in the Contract Documents.

201.09.01.01.01 By Area

Removal shall be measured by area in a horizontal plane in hectares or square metres.

201.09.01.01.02 By Each

For measurement purposes, a count shall be made of the trees or stumps removed.

201.09.01.02 Removal of Surface Boulders and Removal of Piled Boulders

Removal shall be measured by area in a horizontal plane in hectares or square metres.

201.09.01.03 Mechanical Stump Cutting

For measurement purposes, a count shall be made of the stumps removed by mechanical cutting.

201.09.02 Plan Quantity Measurement

When measurement is by Plan Quantity, such measurement shall be based on the units shown in the clauses under Actual Measurement.

201.10 BASIS OF PAYMENT

- 201.10.01 Clearing - Item
Close Cut Clearing - Item
Grubbing - Item
Removal of Surface Boulders - Item
Removal of Piled Boulders - Item
Mechanical Stump Cutting - Item**

Payment at the Contract price for the above tender items shall be full compensation for all labour, Equipment, and Material to do the work.

Areas designated for removal of piled boulders that lie within areas specified in the Contract Documents for either grubbing or removal of surface boulders shall be paid separately with no deduction from the grubbing or surface boulder removal item.

Removal of individual boulders that are 1 m³ and greater in volume, shall be paid as rock excavation according to OPSS 206.