

FORM 634



GOVERNMENT OF NEWFOUNDLAND AND LABRADOR
Department of Transportation and Works
Highway Design Division

SECTION 634 SOIL FOR HYDROSEEDING

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634.01 SCOPE

This section covers the requirements for the supply and application of soil to areas to be hydroseeded. Included in the work is the preparation of the surface by the removal of rocks and debris.

It should be noted that some areas to be hydroseeded will not require the application of soil for hydroseeding.

634.02 MATERIALS

Soil for hydroseeding shall be supplied by the Contractor. The soil for hydroseeding shall consist of either Organic Loam or alternatively a Silty Other Material and Peat Mixture.

634.02.01 Organic Loam

Organic Loam shall be free from weeds, large stones and debris. The Organic Loam shall meet the following gradation: maximum size of particles 100 mm, max of 10% by weight larger than 50 mm. To meet this gradation it may be necessary that the material be screened.

Only organic loam approved by the Engineer shall be used in the work.

634.02.02 Silty Other Material and Peat Mixture

Silty Other Material shall consist of very poorly drained granular material having a high silt content. The maximum size of particles shall be no greater than 100 mm, and no more than 10% by weight shall be larger than 50 mm. To meet this gradation, it may be necessary that the material be screened. Only Silty Other Material deemed acceptable by the Engineer shall be used in the work.

Peat shall be bog material free of pieces of wood, roots and any deleterious material. Only peat deemed acceptable by the Engineer shall be used in the work.

The silty Other Material and peat shall be thoroughly mixed together. The mixture shall contain no less than 25% peat and no more than 50% peat. Mixing may be by either; placing the silty O.M. and peat in layers and mixing in place by the use of equipment, or by pre-mixing.

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634.03 PREPARATION OF SURFACE

The Contractor shall grade and clean-up areas over which soil for hydroseeding is to be placed prior to placing the soil for hydroseeding. Materials such as; rock, boulders, debris and other material, which it is necessary to remove in order to prepare the ground, shall be removed and disposed of. This shall apply to all areas to be treated with soil for hydroseeding regardless as to the source of the materials. The Contractor may elect to bury this waste on site if this meets with the approval of the Engineer.

634.04 TRANSPORTATION

The Contractor shall transport the materials from the source to the job site, where they shall be applied to the designated areas.

634.05 PLACEMENT

The area requiring the soil will be designated by the Engineer. Prior to spreading the soil, the Contractor is to grade the area to neat and slightly contours and to provide positive drainage.

The soil is to be spread over the designated areas to the depth of 100 mm.

The Contractor shall ensure that soil does not contaminate streams or water bodies.

634.06 MEASUREMENT FOR PAYMENT

Measurement for payment will be the product of the length by width of the area treated with a nominal 10cm of topsoil inside the limits staked by the Engineer. The area of topsoil will be computed in square meters to the nearest whole number.

634.07 BASIS OF PAYMENT

Payment at the contract price for soil for hydroseeding shall be compensation in full for all labour, materials, equipment-use and any other expenses to: collect debris and rocks from areas to be treated with soil, provide all haulage expenses to transport the debris and rocks to a disposal site provided by the Contractor at his own expense, dispose of the debris and rocks, provide sources of the required materials, obtain all required permits and approval, provide and transport samples to the Department's Soils Laboratory in St. John's, screen materials if required, construct and maintain access road to the sources of materials, provide all haulage of materials from the source to where the material is to be placed, mix the silty other material and peat mixture if this alternative is used, place the soil for hydroseeding to the required thickness of 10cm, pay any royalties for the materials, clean up and provide such other restoration to the sources of the materials as may be required, together with any other work necessary to complete the contract item.