

SECTION 213

CLEANING OF EXISTING DITCHES

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213.01 DESCRIPTION

This specification deals with work required to clean, deepen and widen existing ditches to a uniform cross section per the typical road cross section or as established by the Owner's Representative. This work includes the excavation of Other and Unsuitable Material and the transportation and disposal of that material to an approved disposal site, as agreed upon by the Contractor and Owner's Representative. As part of the ditch cleaning operation, work shall also include the removal of disposal of all boulders less than or equal to 0.5 cubic metres and the cleaning of any materials deposited in all culvert ends encountered.

213.02 GENERAL OPERATIONS

Areas where ditching is required will be identified by the Owner's Representative. Cleaning of existing ditches shall consist of removing all vegetal matter and debris up to a maximum depth of 500 millimetres such that the final cross section has a continuously smooth grade providing positive drainage, without ponding, in the specified flow direction. The Contractor is advised that an excavator with a ditching bucket having a minimum capacity of 0.75 cubic metres and a minimum width of 1500 millimetres is required to complete this work, unless otherwise directed by the Owner's Representative.

Cleaning operations must not undermine the existing foreslope and shall maintain a uniform cross section without gouges or ridges evident in the completed work. Existing shoulder widths shall be maintained throughout the ditch cleaning operation and must not be compromised or narrowed by way of over excavation, undermining of foreslope or other construction activities. Should any narrowing of the existing shoulder occur, the Contractor shall re-establish the original shoulder width and design foreslope, as directed

by Owner's Representative. All work required to re-establish shoulders to their original width shall be carried out at the Contractor's expense.

The uniform cross section should carry throughout the entire ditch line, even in places where culverts were removed and not replaced. All back and side slopes of other material shall be finished to a neat condition, suitable for seeding, true to line and grade. Boulders removed as part of the cleaning operation shall not leave cavities in the final ditch slopes, all cavities shall be filled using suitable material from the cleaning operation as required. Any areas that cannot be finished satisfactorily by machine shall be completed by hand. In the event of damage to private property or existing culverts as a result of cleaning operations, the Contractor shall be responsible to rectify the damage in a reasonable timeframe at their own expense.

Material generated from this work shall become the property of the Contractor and shall be disposed of in the following manner:

- Within the contract right-of-way limits as directed by the Owner's Representative where possible, or
- At a site located by the Contractor, off the right-of-way, and approved by the Owner's Representative.

Where the Contractor wishes to dispose of excess materials from the Work onto private lands, the Contractor must:

1. Satisfy themselves that the land is actually owned by the private individual.
2. Shall be responsible to obtain permission from any property owner for use of their land as a disposal area for excess materials from the Work.
3. Dispose of all materials in such a way to conform to all Federal, Provincial and Municipal Regulations including buffer zones around waterbodies, environmentally sensitive areas, etc...
4. Have the property owner sign and date a release form supplied by the Owner's Representative for the approval to use the land as a disposal site.
5. Sign and date the release form and provide a copy of the signed release to the Owner's Representative including a description of the locations being used for disposal.
6. Be responsible for all costs associated with the disposal and rehabilitation of the disposal area.

Release forms hold the Department free from any and all claims related to the placement of excess materials from the Work onto private property. Release forms will be provided

by the Owner's Representative and no disposal activities shall take place until the Owner's Representative has been provided with a copy of the signed release form.

Upon completion, the Contractor must grade and leave all disposal areas or dump sites in a condition acceptable to the Owner's Representative and such that it does not obstruct flow of surface drainage or natural watercourses.

213.03 ENVIRONMENTAL CONSIDERATIONS

Excavations and embankments should be kept dry while work is in progress by draining and pumping as required. All necessary unwatering shall be completed in accordance with Section 180. Material required to grade the ditchline should not be placed in freestanding water. To reduce siltation resulting from ditch cleaning operations, the Owner's Representative may require the installation of silt fence and/or check dam sediment traps in accordance with Section 816 and Section 817. Where instructed, the Contractor shall install silt fence and terminate roadside ditches a minimum of 30 metres from any watercourse or water body to allow drainage water to filter through a vegetated area prior to entering any watercourse or water body.

213.04 MEASUREMENT FOR PAYMENT

Measurement for payment shall be the total number of linear metres, rounded to the nearest whole number, of ditch cleaning carried out in accordance with this specification. No measurement for payment will be made for material excavated beyond theoretical lines. Areas identified by the Owner's Representative as being over-excavated shall be remedied by the Contractor at their own expense.

213.05 BASIS OF PAYMENT

Payment at the contract price for Cleaning of Existing Ditches, shall be compensation in full for all labour, materials and equipment required to complete the work herein described together with the excavating, handling, hauling, placing and shaping up of all waste materials in an approved disposal area as required.

Should solid rock be encountered during ditch clean out operations it shall be removed and paid for as per Section 206.