

This specification outlines the requirements for the reinstatement and cleaning all roads, ditches, other trenches, footpaths, sodded and other surfaces disturbed or damaged during the construction of the Work.

## PART 1 REFERENCES

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

ASTM International

D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft<sup>3</sup> (600 kN-m/m<sup>3</sup>))

## PART 2 GENERAL

### 2.1 PROJECT CLEANLINESS

- .1 During the construction period and after Substantial and Total Performance:
  - .1 Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.
  - .2 Maintain Work in tidy condition, free from accumulation of waste products and debris, other than that caused by the Owner or other Contractors.
  - .3 Remove waste materials and debris from site at daily regularly scheduled times or dispose of as directed by the Owner. Do not burn waste materials on site.
  - .4 Clear snow and ice from access to the Work.
  - .5 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
  - .6 Dispose of waste materials and debris off site.
  - .7 Clean interior areas prior to start of finishing work, and maintain areas free of dust and other contaminants during finishing operations.
  - .8 Store volatile wastes in covered metal containers, and remove from premises daily.
  - .9 Provide adequate ventilation during use of volatile or noxious substances. Use of building ventilation is not permitted for this purpose.
  - .10 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.

- .11 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.
- .12 On a daily basis maintain project site and adjacent public and private properties free from debris and waste material.
- .13 Remove waste materials, noxious or offensive matter, and rubbish from site and provide legal disposal. Comply with any directions or precautions issued by the Owner.
- .14 Permanently provide for and maintain the flow, where required, of all sewers, drains, house or inlet connections, and all water courses that may be met with during the progress of the Work. Prevent the contents of any sewer, drain, and house or inlet connection from flowing into the trench or sewers to be constructed under the Contract, except where written permission is given by the Owner.

## 2.2 GENERAL REINSTATEMENT

- .1 Reinstate, restore and make good all roads, ditches, other trenches, footpaths, sodded and other surfaces disturbed or damaged during the construction of the Work, to the satisfaction of the Owner.
- .2 Replace or repair with equivalent or better any pavement, trees, shrubbery, fences, retaining walls, poles or other property and surface structures that have been removed, damaged, or disturbed during the Work.
- .3 Provide new materials for reconstruction of property and surface structures where original materials are not re-constructible as directed by Owner.
- .4 Restore, unless otherwise stipulated, all pavement, granular base or surfacing materials, sidewalks, curbing, gutters, shrubbery, poles, sod or other property, and surface structures removed or disturbed as a part of the Work to a condition equal to that before the Work began, furnishing all labour and materials incidental thereto. No permanent pavement or new graveling shall be placed unless instructed by the Owner, and then not until, in the opinion of the Owner, the condition of the backfill and subgrade is such as to properly support the pavement.

## 2.3 FINAL CLEANING

- .1 Refer to General Conditions.
- .2 When Work is Substantially Performed, remove all surplus materials, tools, equipment, and temporary structures not required for performance of remaining work.

- .3 Remove waste products and debris other than that caused by others, and leave Work clean and suitable for occupancy.
- .4 Remove all surplus usable materials furnished by the Owner from the site and deliver to locations designated by the Owner.
- .5 When the Work is Totally Performed, remove surplus products, tools, construction machinery and equipment.
- .6 Remove waste products and debris other than that caused by the Owner.
- .7 Inspect finishes, fitments and equipment and ensure specified workmanship and operation.
- .8 Broom clean and wash exterior walks, steps and surfaces; rake clean other surfaces of grounds.
- .9 Remove dirt and other disfigurement from exterior surfaces.
- .10 Clean and sweep roofs, gutters, areaways, and sunken wells.
- .11 Sweep and wash clean paved areas.
- .12 Clean equipment and fixtures to sanitary condition; clean or replace filters of mechanical equipment.
- .13 Clean roofs, downspouts, and drainage systems.
- .14 Remove debris and surplus materials from crawl areas and other accessible concealed spaces.
- .15 Remove snow and ice from access to the Work.
- .16 Replace all temporary bulbs, alarms, and filters.

2.4 FINISHING OF PROJECT

- .1 After all other work encompassed in the contract is completed, and before acceptance and final payment will be made, the entire project shall be neatly finished and trimmed to the lines, grades, and cross sections shown on the plans, or as directed by the Owner, to produce smooth surfaces and slopes and a uniform cross section. All construction operations related debris, fallen trees, boulders, bog, and surplus materials, shall be disposed of as provided by these specifications.
- .2 All drainage ditches, waterways, and culverts shall be opened up and cleared out to restore to their full effectiveness.
- .3 Should the surface of any structure or road be contaminated as a result of the Contractor's operations, then the Contractor shall clean off all such mud, or deleterious substances, and restore the surface to the satisfaction of the Owner's Representative.

- .4 All grubbed areas adjoining excavations or embankments shall be graded to conform to the general ground lines.
- .5 Finishing of project will be considered as subsidiary work pertaining to the contract and no extra payment will be made.

2.5 MAINTENANCE

- .1 Following the issuance of the Certificate of Substantial Performance, items requiring maintenance or repair will be corrected during the warranty period or specified maintenance period.
- .2 Maintenance or reinstatement, partial reinstatement, repairs, replacement or restoration until the next construction season starts for the respective area of the Province for the area of the Work (spring start up) will be:
  - .1 at the Contractor's expense where the continuance of the Contract beyond Period of Work is under the Contractor's control;
  - .2 at the Owner's expense where completion of the contract beyond Period of Work is under the Owner's control. In this case, payment for maintenance shall be in accordance with Section 01610 – Force Account Payment.

PART 3 PRODUCTS

3.1 NOT APPLICABLE

PART 4 EXECUTION

4.1 REINSTATEMENT OF LANDSCAPING

- .1 Landscaping reinstatement will be completed in accordance with Section 02104 – Landscaping, Seeding, Sodding & Tree Preservation and paid for under this section.

4.14.2 REINSTATEMENT OF ROADS

- .1 Complete work related to granulars in accordance with 02233 – Selected Granular Base & Subbase.
- .2 Return all roads to their original or better condition and obtain Department of Transportation and Infrastructure, Highway Design and Construction division acceptance of the roads under their jurisdiction. (Refer Drawing Index for appropriate road restoration standard drawings and details).
- .2.3 Comply with and accept responsibility for any requirements that the Department of Transportation and Infrastructure, Highway Divisions

imposes on the Owner as a condition of carrying out the Works within the right-of-way of roads under the Department jurisdiction. These same requirements shall also apply to all other roads and streets affected by the Works. These requirements are, but not necessarily limited to, the following:

- .1 The Work performed within the right-of-way of the highway will be subject to inspection and approval of authorized Department of Transportation and Infrastructure, Highway personnel.
- .2 All structures placed in a roadway shall be bedded in a firm, well compacted foundation. Backfilling of these structures must be compacted in an approved manner in order to prevent undue settlement. Material for backfilling shall be that excavated or similar to that of which the subgrade is constructed. Compaction specified as:
  - .1 Subgrade: ~~minimum of 95 % of the maximum standard proctor dry density, as determined by (ASTM D698) (Standard Proctor Test)~~
  - .2 Subbase ~~(granular)~~: ~~100 % of the maximum dry density in accordance with (ASTM D698)~~.
  - .3 Asphalt: ~~100 % of the maximum dry density in accordance with (ASTM D698)~~.
- .3 On gravelled surface roads or gravelled shoulders, backfilling with excavated or similar material must be carried on such that a minimum thickness of 150 mm of Class "A" granular base course or other approved base course material can be placed below the surface grade.
- .4 Repair any undue settlement occurring within the warranty period. Where in the Owner's opinion permanent repairs to the asphalt pavement or granular surface cannot be undertaken, an asphalt patch or granular surface will be placed by the Contractor and replaced at a convenient time (usually the following year). Both installations shall be at the Contractor's expense and accepted by the Owner. Any maintenance of the patch or granular surface required by the Owner or the Department of Transportation and Infrastructure will also be made by the Contractor. Refer also to Section 02574 – Reshaping & Patching Asphalt Pavement.
- .5 The Contractor is responsible for any damage that may be caused to the road or adjoining property during or as a result of this Work.

~~.3~~ Not Applicable

PART 5 PAYMENT

5.1 MEASUREMENT FOR PAYMENT

- .1 Fences to be removed and then, relocated and/or reinstatedplaced, located within the theoretical trench pay width plus one (1) metre on either side of the trench will be measured by the metre. Fences replaced shall be of a quality equal to or greater than existing conditions.
- .2 Ditches or other trenches to be removed and then, relocated and/or reinstatedplaced, located within the theoretical trench pay width plus one (1) metre on either side of the trench, will be measured by the metre.
- .3 Culverts and other structures to be removed, and then relocated and/or reinstatedplaced, located within the theoretical trench pay width plus a maximum of one (1) metre on either side of the trench will be measured by the unit specified in the MERX Schedule of Quantities and Prices.
- .4 Structures relocated or reinstatedplaced shall be of a quality equal to or greater than existing conditions.
- .5 Landscaping and topsoil reinstatement will be measured in the same unit measures as accordance with Section 02104 – Landscaping, Seeding, Sodding & Tree Preservation. Measurement of, with payment is based on theoretical trench pay width plus one (1) metre on either side of the trench, will be measured by the square metre.
- .6 Driveway reinstatement and patching, as designated in the contract documents or as directed by the Owner, shall be paid by the square metre including patch preparation such as asphalt cutting, asphalt removal, supply, placement, and compaction of Class "A" granular base, tack coat on existing asphalt faces, cutting, as well as placing of new asphalt. Asphalt thickness shall be 50 mm compacted and granular base thickness shall be 150 mm compacted.

5.2 BASIS OF PAYMENT

- .1 Except as indicated in these Specifications or in the MERX Schedule of Quantities and Prices, no separate or direct payment will be made for reinstatement. To ensure reinstatement is carried out as the Work progresses, if no pay items are included under this section of the MERX Schedule of Quantities and Prices, a sum equal to 5 % of the value of the Work completed will be retained in addition to all other specified allowances or holdbacks. This reinstatement allowances will be released progressively each month on the basis of based on the Owner's opinion of the percentage of reinstatement completed.

- .2 With failure of the Contractor to carry out reinstatement within a reasonable period of time, the Owner may authorize to have the Work carried out by others at the expense of the Contractor. The Owner will give the Contractor written notice in accordance with the General Conditions, Section GC 9 – Owner's Right to do Work, before ~~taking action~~.
- .3 Class "A" (Granular Base) reinstatement for roads and shoulders of paved roads ~~shall will be paid for measured by the cubic metre (m<sup>3</sup>) of compacted material incorporated into the Work~~, in accordance with Section 02233 – Selected Granular Base & Subbase. ~~The Contractor shall not be paid more than the calculated quantities based on 100 mm thickness times the width.~~
- .4 Class "A" (Granular Base) and Class "B" (Granular Sub-Base) reinstatement for materials removed during trench excavation along gravel roads ~~shall will be paid for measured by the cubic metre (m<sup>3</sup>) of compacted material incorporated in the Work~~ in accordance with Section 02233 – Selected Granular Base & Subbase, ~~based on the theoretical trench width and 100 mm thickness.~~
- .5 ~~Payment for Removal and replacement of existing asphalt pavement, except for driveways as noted in this Section, shall be paid for in accordance with to~~ Section 02574 – Reshaping & Patching Asphalt Pavement.

Not For Construction