

Roads

Master Specification

RD-BP-C1 Cold Planing

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RD-BP-C1 Cold Planing

1 General

- 1.1 This Part specifies the requirements for the planing and removal of existing pavements prior to the placement of asphalt.
- 1.2 Where the work is to be carried out under traffic, the Contractor shall provide the Principal with at least 4 working days' notice of the dates on which planing will be undertaken in order to coordinate with traffic signals and maintenance.

2 Cold Planing

General

- 2.1 Cold planing shall be carried out to the dimensions specified in the Drawings and / or Contract Documents.
- 2.2 The depth of cut for all cold planing operations shall be within a tolerance of that specified of:
 - a) ± 5 mm in asphalt; and
 - b) ± 10 mm in all other material.
- 2.3 The position of the excavation shall not vary by more than ± 20 mm from that specified.
- 2.4 Cold planing shall also be carried out where the level of the layer underlying the new asphalt course is such that the new course cannot be placed within the specified tolerances.
- 2.5 The Contractor shall protect from water infiltration all areas of 14 mm and 20 mm asphalt exposed after cold planing operations. Sides and ends of the planed excavation shall be vertical to the full depth of excavation prior to the asphalt reinstatement.
- 2.6 Following completion of the cold planing operations and prior to placing of asphalt, a **Hold Point** shall apply to enable a joint inspection of the exposed surface and to verify that the depth of the cut specified has been achieved within tolerance. As a result of this inspection, the Contractor may be directed to undertake the following:
 - a) proof rolling;
 - b) additional cold planing; or
 - c) variation to the total depth of the pavement treatment specified.
- 2.7 The Contractor shall provide at these Hold Points, at no less than 10 m intervals, details of the cutting depths after clean up, obtained at the centre and each edge of the cut.
- 2.8 Where excavations are less than 10 m in length, a minimum of 3 cross section measurements shall be taken at approximately equal intervals along the length. No standby payment for proof rolling will be made.

Protection of Work

- 2.9 The Contractor shall protect the work until the required thickness of asphalt has been laid, compacted and cured sufficiently to carry traffic without deforming the works or affecting future riding quality.
- 2.10 If the planing is being undertaken as part of a Plane and Reinstatement Contract, the excavations resulting from the cold planing operation shall be fully reinstated with asphalt on the same day of the pavement excavation.

3 Edge and End Planing

General

- 3.1 If the level of the layer underlying the new asphalt course is such that the new course cannot be placed within the specified tolerances, edge planing or end planing, as appropriate, shall be carried out.

Edge Planing Alongside Gutters

- 3.2 Where asphalt pavement is to be placed alongside gutters, edge planing shall be carried out to the depth required for placement of the asphalt course at the gutter lip and tapered to zero over a distance of approximately 1.9 m. An asphalt surface course and / or SAMI shall be placed within 2 days of edge planing.

End Planing

- 3.3 Where new asphalt pavement is to match an existing pavement, end planing shall be carried out to the depth required for placement of the asphalt course at the interface with the existing pavement and tapered to zero over a distance of approximately 3.8 m. An asphalt surface course shall be placed within one day of end planing.

4 Service Castings

- 4.1 Service castings located within the planed zone shall have existing asphalt removed around the casting to achieve a uniform surface, as per requirements for the particular planing operation.
- 4.2 The Contractor is responsible for the care and protection from damage of all appurtenances or services. The Contractor shall be deemed to be fully informed of the position of all appurtenances or services.

5 Cold Planed Material

General

- 5.1 All loose material produced during cold planing operations shall be removed by the Contractor from the planed pavement, gully boxes, gutters, footpaths, etc., and the pavement and its immediate surroundings shall be left in a clean and tidy state.
- 5.2 Ownership of the cold asphalt planings shall be vested in the Contractor.

Storage and Disposal

- 5.3 Where feasible, planings should be disposed of to an asphalt plant for reuse.
- 5.4 The Contractor shall store and / or dispose of the planings in accordance with the Department's "Guide for the Reuse or disposal of Asphaltic Concrete Planings" or the EPA Standard for the Production and use of Waste Derived Fill (2010) available at: http://www.epa.sa.gov.au/xstd_files/Waste/Guideline/standard_wdf.pdf.

Sampling

- 5.5 Upon request, the Contractor shall allow sampling of the cold asphalt planings for chemical testing by the Principal for research and monitoring purposes.

Records

- 5.6 The Contractor shall maintain records of the quantity and disposal method for the cold asphalt planings. Separate totals shall be kept for quantities disposed by reprocessing in asphalt, recycling as granular pavement materials, and disposal to landfill.

5.7 The Contractor shall provide a copy of the records on completion of the Contract.

6 Measurement

Over Excavation

6.1 "Over Excavation" means any excavation which is in excess of the volume calculated by using the specified cutting depth plus the tolerance as applicable. In the event that the Contractor Over Excavates, the Contractor shall place additional asphalt where the Over Excavation has taken place. The Contractor shall bear all costs associated with Over Excavation.

Measurement

6.2 If the excavation is to be measured for the purpose of payment, it will be made to the nearest 0.1 cubic metre for each section planed and based on solid measurement (i.e. the area planed by the average measured depth of cold planing).

6.3 If requested, the Contractor shall provide calculations to verify the volume claimed.

6.4 If haulage distance is measured for the purpose of payment, the haulage distance shall be calculated on the basis of the actual haul distance to the lowest cost Nominated Disposal Site. The haulage distance only includes the loaded trip only and excludes the return trip.

7 Hold Points

7.1 The following is a summary of Hold Points referenced in this Part:

Document Ref.	Hold Point	Response Time
2.6	Prior to placing of asphalt	3 hours