

**Part 1 Products**

**1.1 EQUIPMENT**

- .1 Cold Planer: with sufficient power to cut a minimum 50 mm depth in one pass; with slope and grade adjustment controls.

**Part 2 Execution**

**2.1 PREPARATION**

- .1 Temporary Erosion and Sedimentation Control:
  - .1 Follow the erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.
  - .2 Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
  - .3 Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.
  - .4 Protect existing catch basins, prevent contamination with millings.
- .2 Prior to beginning removal operation, inspect and verify with Departmental Representative areas, depths and lines of asphalt pavement to be removed.
- .3 Protection: protect existing pavement not designated for removal and structures from damage. In event of damage, immediately replace or make repairs to approval of Departmental Representative at no additional cost.

**2.2 TRAFFIC SAFETY**

- .1 Follow Best Practices for grinding work, in conjunction with Alberta TAC manual.
- .2 Ramp vertical edges created by milling operations according to the following tables. Material used in the ramping must be approved by the Department Representative and must be maintained until removal prior to paving.

**.3 Transverse Edges**

Depth of Milling (mm)	Speed Limit (km/h)	Length of Ramp (mm)	Location of Ramp
0 - 50	< 60	600	At end of milled area (up ramp)
0 - 50	≥ 60	1200	At end of milled area (up ramp)
> 50	< 60	600 600	At start of milled area (down ramp) At end of milled area (up ramp)
> 50	≥ 60	600 1200	At start of milled area (down ramp) At end of milled area (up ramp)

**Localized Edges – Manholes, Vault Covers, Valves, Etc.**

Length of Milled Area (m)	Speed Limit (km/h)	Length of Ramp (mm)	Location of Ramp
< 25	All speeds	N/A	Paint all edges one fluorescent colour
25 or greater	All speeds	600	At al edges of milled area
0 - 15	< 60	600 600	At start of milled area (down ramp) At end of milled area (up ramp)
0 - 15	≥ 60	600 1200	At start of milled area (down ramp) At end of milled area (up ramp)

**2.3 PREPARATION**

- .1 Sweep the pavement surface with a mechanical sweeper to remove debris and dirt accumulations.
- .2 Remove any standing water from the pavement surface.

**2.4 MILLING**

- .1 Mill to depth and/or gradeline as determined by the Department Representative.
- .2 Mill pavement to expose vertical surface of gutter face, manhole frames, water valves, survey monuments, power, telephone, or water vaults, or any other structures within milling area for the full required depth of milling.

- .3 Load millings into haul vehicles and transport to the Contractor's chosen location.
- .4 Minimize use of water during milling.

**2.5 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.

**END OF SECTION**