

53.8 TRANSVERSE CRACK REPAIR - MILL AND FILL

53.8.1 GENERAL

The Work consists of repairing transverse cracks by milling a trapezoidal-shaped notch centered over and for the length of the crack, filling the notch with asphalt concrete pavement Mix Type 8 material and compacting the mix.

53.8.2 MATERIALS

The Contractor shall pick up the patching mix from an asphalt plant designated by the Engineer or produce asphalt concrete pavement material of Mix Type 8 in accordance with Specification 53.11, Production of Asphalt Concrete Pavement.

When required, the Contractor shall supply aggregate in accordance with Specification 55.4, Supply of Aggregate and produce crushed aggregate in accordance with Specification 55.3, Aggregate Production and Stockpiling, for the designation and class of material specified.

The Contractor shall supply the tack coat material in accordance with Specification 55.5, Supply of Asphalt. The type and grade of liquid asphalt for tack coat will be the choice of the Contractor.

53.8.3 EQUIPMENT

The Contractor shall supply:

- A dry process cold milling machine capable of milling a trapezoidal shaped notch as shown on Drawing MS-002. Milling machines using water to cool the milling head shall not be permitted.
- Sweeping and blowing equipment capable of removing all loosened material from the milled notch and off the roadway surface.
- Hand spraying equipment for applying the tack coat.
- All other equipment necessary to complete the Work.

53.8.4 PROCEDURE

All Work shall be performed during daylight hours only, unless adequate lighting exists which provides visibility of at least 700 metres and prior approval of the Engineer is obtained. No Work shall be performed when the visibility is less than 700 metres or when the pavement surface is wet.

No Work shall be performed when the atmospheric temperature at the worksite is below 5° Celsius.

Traffic control and signing shall be performed in accordance with Specification 55.1, Traffic Accommodation and Temporary Signing.

The Engineer will determine which transverse cracks are to be repaired.

Repair of the transverse cracks shall consist of the following:

- The Contractor shall mill a trapezoidal-shaped notch centred over and for the length of the transverse crack as shown on diagram MS-002.
- All loosened material shall be removed from the notch and the milled surfaces shall be left clean and dry. The milled material shall be swept to the shoulder of the road and disposed of on the sideslope. A tack coat shall be applied to all exposed pavement edges by means of hand spraying.
- The Contractor shall place and compact Mix Type 8 material to the top of the milled notch. The completed work shall provide a smooth transition between the infilled material and the adjacent undisturbed pavement surface.

53.8.5 TIME TO COMPLETE

The Contractor shall complete the Work within 60 calendar days of the issuance of the Work Order.

53.8.6 MEASUREMENT AND PAYMENT

53.8.6.1 General

Measurement will be in metres of the length of transverse crack satisfactorily repaired.

Payment for the supply of aggregate will be made in accordance with Specification 55.4, Supply of Aggregate.

Payment for hauling will be made in accordance with Specification 55.2, Hauling.

53.8.6.2 Contractor Supply of Asphalt Mix

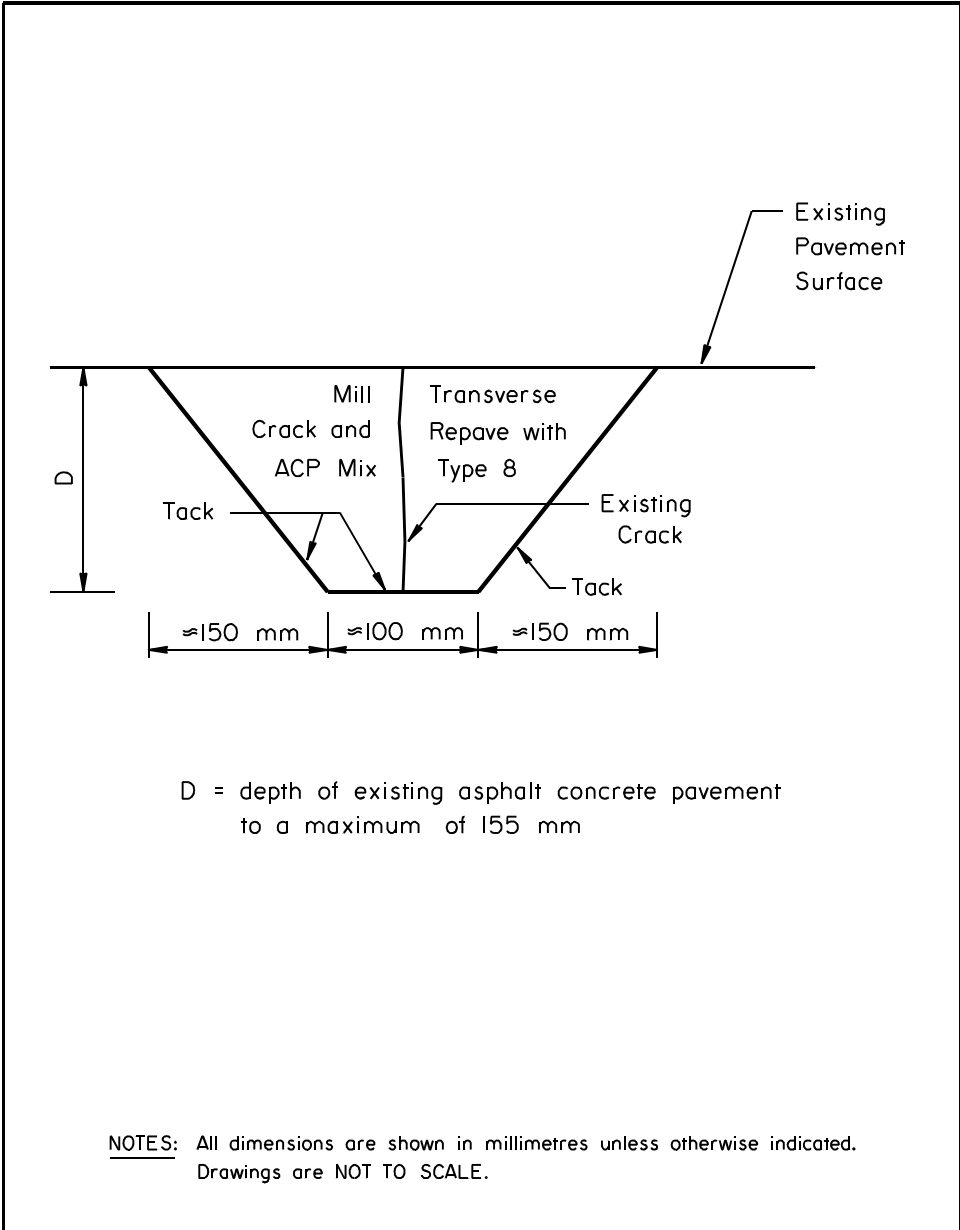
Payment will be made at the unit price bid per metre for "Transverse Crack Repair (Mill and Fill) - Produce and Place". This payment will be full compensation for milling the cracks to the specified dimensions, removing and disposing of the milled material, supplying and applying the tack coat, supplying the asphalt binder, producing crushed aggregate and blend sand, processing, placing and compacting the mix, traffic accommodation and signing, and all labour, equipment, tools and incidentals necessary to complete the Work.

53.8.6.3 Department Supply of Asphalt Mix

Payment will be made at the unit price bid per metre for "Transverse Crack Repair Repair (Mill and Fill) - Pickup and Place". This payment will be full compensation for milling the cracks to the specified dimensions, removing and disposing of the milled material, supplying and applying the tack coat, picking up, placing and compacting the mix, traffic accommodation and signing, and all labour, equipment, tools and incidentals necessary to complete the Work.


53.8.7 WARRANTY

The warranty period for this work shall be 1 year.



D = depth of existing asphalt concrete pavement to a maximum of 155 mm

NOTES: All dimensions are shown in millimetres unless otherwise indicated. Drawings are NOT TO SCALE.

	DETAIL OF MILLING AND REPAVING AT TRANSVERSE CRACKS	
	August 1995	Drawing No. MS-002