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**3.52 MILLED RUMBLE STRIPS****3.52.1 GENERAL**

This specification covers the construction of milled rumble strips on the shoulders of roadways to alert drivers when they leave the travel lanes and across the travel lanes to alert drivers of an upcoming stop condition.

**3.52.2 EQUIPMENT****3.52.2.1 General**

The Contractor shall provide all equipment necessary for completion of the Work.

**3.52.2.2 Milling Machine**

The milling machine shall be equipped to meet or exceed the following requirements:

- (i) For milling of shoulder strips, the cutting head shall be capable of producing grooves meeting the requirements as shown on Dwg. No. CB6-3.52M1 or CB6-3.52M2 as applicable.

For milling of rumble strips for stop conditions, the cutting head shall be capable of producing grooves meeting the requirements as shown on Dwg. No. CB6-3.52M3.

- (ii) The machine shall either be equipped with an integral sweeping device mounted directly behind the cutter or,

a separate sweeping operation shall be conducted as construction of the rumble strips progresses within the signed construction zone.

**3.52.3 CONSTRUCTION****3.52.3.1 General**

All work shall be performed during daylight hours only. No Work shall be performed if the visibility is less than 700 metres. The maximum work area shall be 4 kilometres in length.

The Contractor shall supply a sequential arrowboard in accordance with Specification 1.2, General.

**3.52.3.2 Construction of Milled Rumble Strips**

For milling of shoulder strips, the Contractor has the option of choosing either the intermittent typical layout or the continuous typical layout for milled rumble strips. The Contractor shall construct milled rumble strips as shown on either Drawing CB6-3.52M1 - Typical Layout for Continuous Milled Rumble Strips for Shoulders or CB6-3.52M2 - Typical Layout for Intermittent Milled Rumble Strips for Shoulders.

When required, the Contractor shall construct milled rumble strips for stop conditions as shown on Drawing CB6-3.52M3 - Typical Layout for Milled Rumble Strips for Stop Conditions. Due to space

constraints, it may not be possible to construct all of the strips at some intersections. In these cases, the Contractor shall construct the number of strips as shown in the special provisions or as directed by the Consultant.

No grooving will be done across intersections, tapers or accesses nor at any other locations specified by the Consultant.

After milling the grooves, the Contractor shall pickup and dispose of all detritus created from the milling operation.

Patterns of milled rumble strips constructed outside the tolerances as shown on the plans or exhibiting obvious defects will be rejected, and the Contractor shall be responsible for repairing the unacceptable work.

#### **3.52.4      MEASUREMENT AND PAYMENT**

##### **3.52.4.1      Milled Rumble Strips**

Measurement of milled rumble strips will be made parallel to the road centreline, to the nearest 0.001 km of through highway chainage for each side of the road where accepted milled rumble strips have been constructed.

Payment will be made at the unit price bid per kilometre per side for "Milled Rumble Strips." Payment will be the same for either the continuous or intermittent layout pattern. This payment will be full compensation for constructing the milled rumble strips, removing and disposing of all debris and traffic accommodation.

##### **3.52.4.2      Milled Rumble Strips for Stop Conditions**

Milled Rumble strips for stop conditions will be measured by the set as the total of all completed strips at each stop location.

Payment will be made at the unit price bid per set for "Milled Rumble Strips for Stop Conditions". This payment will be full compensation for constructing the milled rumble strips, removing and disposing of all debris and traffic accommodation.