

**WEST VIRGINIA DEPARTMENT OF TRANSPORTATION**

**DIVISION OF HIGHWAYS**

**SUPPLEMENTAL SPECIFICATION**

**FOR**

**SECTION 664**

**TRAFFIC SAFETY DEVICES**

**RUMBLE STRIPS**

**664.3 – CONSTRUCTION METHODS:**

**ADD THE FOLLOWING TO THE SECTION:**

**664.3.2 - Rumble Strips:** This work consists of furnishing a machine capable of cutting or milling rumble strips on the centerline or edge of roadways in accordance with the details and notes on the plans and as directed by the Engineer.

**664.3.2.1 – Definitions:**

- Milled Rumble Strips -
- Saw-Cut Rumble Strips –

**664.3.2.2 - Construction Methods**

**664.3.2.1-Centerline Rumble Strips:** The Contractor shall pre-mark the location of the Center of each cut, and the beginning and ending points of the sections, prior to the installation of the Centerline Rumble Strips. The Engineer shall review and approve the locations.

Centerline Rumble Strips shall not be installed on bridge decks, loop detector saw-cut locations, structures, approach slabs or in other areas identified by the Engineer.

The method and equipment for constructing ground-in indentations shall be selected by the Contractor.

Centerline Rumble Strips shall be constructed within two (2) inches of the required alignment.

Indentations shall not vary from the dimensions shown on the plans by more than 0.10 inch in depth and of 5 (five) percent in width.

Finished Centerline Rumble Strips not meeting the specified tolerances shall be brought within tolerance by either abrasive grinding, or removal and replacement. The corrective method will be selected by the Engineer. Ground surface areas shall be neat and uniform in appearance. The corrective work shall be at the

Contractor's expense.

All removed material shall be disposed of in conformance with provisions in Section 415, "Removing Existing Pavement Surface," of the Standard Specifications.

**664.3.2.1 – Centerline Rumble Strip Equipment:** The machine shall consist of a rotary type cutting head with a maximum outside diameter of 16 (sixteen) inches. The cutting tool shall have the cutting head(s) arranged in such a pattern as to provide a relatively smooth cut per milled section without tearing or snagging and be equipped with guides to provide uniformity and consistency in alignment of each cut with respect to the roadway. The strips shall be cut in accordance with the dimensions as detailed on the Plans, and materials resulting from cutting the pavement shall be disposed of and the slots shall be properly cleaned.

**664.3.2.2 – Edgeline Rumble Strips:**

**664.4 - METHOD OF MEASUREMENT:**

**ADD THE FOLLOWING TO THE SECTION:**

**664.4.2 – Rumble Strips:** This work shall be measured for payment by the actual linear number of feet of rumble strips where Rumble Strips are placed and accepted. This distance shall be measured longitudinally along the centerline of pavement with deductions for bridge decks, drainage structures, raised pavement markers, loop detector saw-cut locations, and any other sections where Rumble Strips were not installed.

**664.5 - BASIS OF PAYMENT**

**ADD THE FOLLOWING PARAGRAPH TO THE SECTION:**

The Contract unit price per foot for Rumble Strips for the pay items listed in section 664.6. The price shall include furnishing all equipment, tools, labor, and work incidental thereto and also disposal of any waste material resulting from this operation.

**664.6– PAY ITEMS**

**ADD THE FOLLOWING TO THE TABLE:**

ITEM NUMBER	DESCRIPTION	UNIT
664002-001	Milled Rumble Strip	LF (Meter)
664003-001	Centerline Rumble Strip	LF (Meter)