

## **Rumble Strips**

### **418.1 DESCRIPTION**

This section describes the requirements for cutting rumble strips in plant mix pavement and concrete pavement.

### **418.2 MATERIALS—Vacant**

### **418.3 EQUIPMENT**

Ensure that equipment meets the following:

1. For portland cement concrete pavement, provide a grinder with carbide-tipped grinding drum. For plant mix pavement, provide a mill with steel milling head. Ensure equipment produces a smooth cut in accordance with the corrugation pattern specified.
2. A power broom or sweeper/vacuum.

### **418.4 CONSTRUCTION**

#### **418.4.1 General**

Repair or recut misaligned rumble strips. Repair or replace damaged pavement at no additional cost to the department. Before opening the adjacent lane or roadway to traffic each day, remove waste material resulting from the work.

#### **418.4.2 Shoulder Rumble Strips**

Align the shoulder rumble strip where specified and as verified by the engineer.

Demonstrate to the engineer on an initial test section of 500 ft [150 m] that the equipment and methods provide the desired rumble strip and surface inside each depression, without tearing or snagging the plant mix pavement. If the results do not meet the contract requirements, use new equipment or methods, or make necessary adjustments; repair or replace the test section as directed at no additional cost to the department.

#### **418.4.3 Rumble Strip Sections**

Align the group of rumble strip sections without deviation greater than 6 in [150 mm] from the longitudinal reference line. Do not install before the engineer verifies the alignment.

#### **418.5 MEASUREMENT and PAYMENT**

The engineer will measure:

1. Rumble Strips (Asphalt) or Rumble Strips (Concrete) by the mile [kilometer], longitudinally along the edge of travel way for each affected shoulder.
2. Rumble Strip Section by the each.

The department will pay as follows:

<b>Pay Item</b>	<b>Pay Unit</b>	<b>Measure to the Nearest</b>	<b>Pay to the Nearest</b>
Rumble Strips (Asphalt)	MI [km]	0.001 mi [0.005 km]	0.01 MI [0.05 km]
Rumble Strips (Concrete)	MI [km]	0.001 mi [0.005 km]	0.01 MI [0.05 km]
Rumble Strip Section	EA [Ea]	EA [Ea]	EA [Ea]