

## SECTION 455 – DIAMOND GRINDING EXISTING CONCRETE PAVEMENT

### 455.01 DESCRIPTION

This Section describes the requirements for diamond grinding of existing concrete pavements.

### 455.02 MATERIALS

#### 455.02.01 Materials

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#### 455.02.02 Equipment

#### Provide equipment as specified:

Grinding Machine	<a href="#">1006.08</a>
Mechanical Sweeper	<a href="#">1008.03</a>

### 455.03 CONSTRUCTION

#### 455.03.01 Diamond Grinding Existing Concrete Pavement

Ensure that concrete pavement repairs are performed before diamond grinding. Perform joint sealing after diamond grinding.

Perform grinding operations in a longitudinal direction that is parallel to the longitudinal joint. Do not overlap longitudinal passes more than 2 inches. Continuously remove grinding slurry from the pavement surface.

Ensure that the surface of the ground pavement has a corduroy texture consisting of grooves between 1/16 and 1/8 of an inch in width. Ensure that the peaks of the ridges are between 1/32 and 1/8 of an inch in width and are approximately 1/16 of an inch higher than the bottoms of the grooves.

Do not grind to eliminate minor depressions if it lowers the overall profile of the pavement. Ensure that in any 3 × 100-foot test area at least 95 percent of the surface is ground and textured.

Test transverse joints and cracks to ensure that adjacent surfaces are in the same plane. Regrind misaligned joints and cracks in excess of 1/16 inch until the surfaces are flush.

Ensure that the surface, after grinding, meets ride quality requirements as specified in [401.03.03.J](#) using the equations for Other Roadways.

Regrind deficient areas in the pavement surface. When regrinding to correct deficiencies is required, regrind the entire width of the lane in the area to be corrected.

Using a mechanical sweeper, clean the area before opening to traffic and before subsequent construction or resurfacing. Remove and dispose of slurry and sweepings as specified in [201.03.09](#).

#### **455.04 MEASUREMENT AND PAYMENT**

**The Department will measure and make payment for Items as follows:**

<b>Item</b>	<b>Pay Unit</b>
DIAMOND GRINDING EXISTING CONCRETE PAVEMENT	SQUARE YARD

#### **Additional Reference Material**

[Item Number List](#)