

1 Make the following Section a part of the Standard Specifications:

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3 **“SECTION 615 – MILLED RUMBLE STRIP**

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5 **615.01 Description.** This section describes constructing Centerline, and  
6 Edgeline Milled Rumble Strips (MRS) in HMA pavement.

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8 **615.02 Materials.** None.

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10 **615.03 Construction.**

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12 **(A) Submittal.** Method of constructing the milled rumble strip shall  
13 be submitted to the Engineer for acceptance. Meeting shall be scheduled  
14 14 days before start of construction work. Discuss sequence of work  
15 plans, and proposal for dust control.

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17 **(B) Equipment.** Milling equipment shall be equipped with a rotary-  
18 type cutting head with cutting tips arranged in a pattern as to provide a  
19 relatively smooth cut, ranging from 3/8 inches to 5/8 inches between  
20 peaks and valleys.

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22 The cutting head(s) shall be on a suspension independent from the  
23 power unit to allow the head(s) to self-align with surface slopes and  
24 irregularities.

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26 The machine shall have a guidance system that provides consistent  
27 alignment of each cut in relation to the roadway and provide uniformity  
28 and consistency throughout the project.

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30 **(C) Longitudinal Spacing.** The Milled Rumble Strips (MRS) shall be  
31 placed perpendicular to the roadway with longitudinal spacing as follow:

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33 Centerline MRS: 20 inch on-center (milled across centerline)  
34 Edgeline MRS: 12 inch on-center (milled across edge line)

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36 The 20 inch on-center longitudinal spacing for Centerline MRS is  
37 designed to accommodate multiple centerline pavement striping and  
38 raised pavement marker configurations. It will allow placement of raised  
39 pavement markers between the milled concave depressions.

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41 **(D) Milling Operations.** Clean pavement surface before constructing  
42 the rumble strips. Mill the concave depressions to the dimensions shown  
43 in the plans.

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45 Align the concave depressions as shown in the plans. Alignment  
46 of milled rumble strips shall not deviate from the plans more than  $\pm 2$   
47 inches.

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After the concave depressions are milled into the pavement surface, use a sweeper/vacuum to collect the waste material resulting from the milling operations.

Contractor shall dispose the waste material at its previously designated disposal site or as directed by the Engineer at no increase in contract price or contract time.

**615.04 Measurement.** The Engineer will measure Milled Rumble Strip per linear foot in accordance with the contract documents. Linear length is defined as the roadway length the milled rumble strip is installed.

**615.05 Payment.** The Engineer will pay for the accepted pay items listed below at the contract price per pay unit, as shown in the proposal schedule. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for each of the following pay items when included in the proposal schedule:

Pay Item	Pay Unit
Milled Rumble Strip, _____	Linear Foot"

**END OF SECTION 615**