

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

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3 **"SECTION 615 – MILLED RUMBLE STRIPS**

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

7
8 **615.02 Materials.** None.

9
10 **615.03 Construction.**

11
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.

16
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, approximately 1/16 inches between peaks and
20 valleys.

21
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.

25
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.

29
30 **(C) Longitudinal Spacing.** The Milled Rumble Strips (MRS) shall be
31 placed perpendicular to the roadway with longitudinal spacing as follow:

32
33 Centerline MRS: 20 inch on-center

34
35 The 20 inch on-center longitudinal spacing for Centerline MRS is
36 designed to accommodate various centerline pavement striping and raised
37 pavement marker configurations. It will allow placement of raised
38 pavement markers between the concave depressions.

39
40 **(D) Milling Operations.** Clean pavement surface before constructing
41 the rumble strips. Mill the concave depressions to the dimensions shown
42 in the plans.

43
44 Align the concave depressions as shown in the plans. Alignment
45 of milled rumble strips shall not deviate from the plans more than ± 2
46 inches.

47 After the concave depressions are milled into the pavement
48 surface, use a power broom or sweeper/vacuum to collect the waste
49 material resulting from the milling operations. Seal the entire surface of
50 milled rumble strips with emulsified asphalt. Refer to Section 407 – Tack
51 Coat for material specification and application procedure.
52

53 Contractor shall dispose the waste material as directed by the
54 Engineer at no increase in contract price or contract time.
55

56 **615.04 Measurement.** The Engineer will be paid on a contract lump sum
57 basis. Measurement for payment will not apply.
58

59 **615.05 Payment.** The Engineer will pay for the accepted milled rumble strip
60 on a contract lump sum basis. Payment will be full compensation for the work
61 prescribed in this section and the contract documents.
62

63 The Engineer will pay for the following pay item when included in the
64 proposal schedule:
65

66 Pay Item	67 Pay Unit
68 16-Inch Milled Rumble Strip, Centerline	69 Lump Sum"

70
71
72
73 **END OF SECTION 615**