

## STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION DESIGN DIVISION NASHVILLE, TENNESSEE 37243-0348

JOHN C. SCHROER COMMISSIONER

BILL HASLAM GOVERNOR

## **INSTRUCTIONAL BULLETIN NO. 14-04**

## **Regarding Permanent Pavement Marking Selection Criteria**

Effective for the August 29<sup>th</sup> Letting (June 18<sup>th</sup> Turn-in), Table 4-3 is updated as attached.

PURPOSE: This Instructional Bulletin adds guidance for centerline rumble stripes, clarifies guidance concerning snowplowable raised pavement markers, corrects a typo concerning the item number for rumble strips on Multilane State Routes.

Jennifer Lloyd, PE

Civil Engineering Director Roadway Design Division

4/22/14 JL:ARH:MWC

		Pe	rman	ent F	Paver	nent		ings, lumbl					Marke s	rs, Ru	mble	Strip	and	
Road			Olassilication	716-12.01 4" Enhanced Flatline	716-12.02 6" Enhanced Flatline	716-12.09 12" Enhanced Flatline	716-13.01 4" Spray Thermo	716-13.02 6" Spray Thermo	716-05.01 4" Paint	716-01.21 SRPM (Bi-Dir)(1-Color)	716-01.22 SRPM (mono)(1-color)	716-01.23 SRPM (Bi-dir)(2-color)	411-12.02 16" Rumble Strip Non-continuous	411-12-01 16" Rumble Strip Continuous	411-12.03 8" Rumble Stripe	411-12.04 4" Rumble Stripe	411-12.05 CL Rumble Stripe	Footnotes
	Interstate or Other Freeway		Edge Lines		Х									х				8,9
,			Lane Lines		Х							Х						1, 2, 5, 7, 8,
Inter Other		HOV Lane Lines			X						X						1, 2,	
State	Divided State Route Non-Freeway		Lane Lines		х							х						1, 2, 4, 7, 8, 9
Divided			Edge Lines		Х								X	X				
Undivided State Route	∨≥45		CL / Lane Lines		х					X	X LN						* See Note 6	1, 2, 4, 6, 7, 8, 9
			Edge Lines SHLD ≥8'		х								x					
			Edge Lines SHLD < 8'				X SHLD <2'	X SHLD 2-8							X SHLD 2-8	X SHLD <2'		
	V< 45	00	CL / Lane Lines	х						X	X LN							4, 7, 8, 9 1, 2, 4, 7, 8, 9
		ADT ≥ 12,000	Edge Lines SHLD ≥8'	X									X					
			Edge Lines SHLD < 8'				Х								X SHLD 2-8'	X SHLD <2'		
		< 12,000	CL / Lane Lines				X			X CL	X LN							
		ADT <	Edge Lines				Х						Х		X SHLD 2-8'	X SHLD <2'		1, 2, 4
Local	ads	≥1000	All Lines				x											1, 2
	KO	<1000	All Lines						х									3

Table 4-3 (Sheet 1 of 2)

## Permanent Pavement Markings, Raised Pavement Markers, Rumble Strip and Rumble Stripe Guidelines Notes

- 1. The contractor may elect to use either thermoplastic or preformed plastic for specialty striping items. These items include stop lines, cross walks, arrows, words, channelization, and other specialty striping items except lines.
- 2. The following footnote shall be added to all Specialty Striping Items: "The contractor may elect to substitute Preformed Plastic for Thermoplastic. Preformed Plastic shall be paid for at the same unit price as bid for Thermoplastic."
- 3. Specialty striping items may be either paint or thermoplastic.
- 4. Snowplowable Raised Pavement Markers (SRPMs) shall conform to this guidance:
  - a. SPRMs located along centerlines of 2 direction roadways (Yellow Stripe) shall be paid for under Item No. 716-01.21 "Bi-directional snowplowable raised pavement markers (reflector on both sides), per each. Lenses shall be yellow
  - b. SRPMs on lane lines between lanes of the same travel (Broken White Stripes) direction on <u>undivided</u> roadways shall be paid under Item No. 716-01.22, Snwplwble Pvmt Mrkrs (Mono-Dir) (1 Color), per each. Lenses shall be clear or white
  - c. SRPMs on lane lines between lanes of the same travel (Broken White Stripes) direction on divided roadways shall be paid for under Item No. 716-01.23, Snwplwble Pvmt Mrkrs (Bi-Dir) (2 Color), Each. Lenses shall be clear of white on the upstream side (facing traffic), lenses shall be red facing downstream side (facing wrong-way traffic).
  - d. Refer to T-M-series standard drawings for details. Three lane and multilane roads with 2-way traffic will normally require both mono-directional and bi-directional snowplowable raised pavement markers. Two lane roads will normally require bi-directional snowplowable raised pavement markers.
- 5. Rumble strips are not required on ramps.
- 6. Centerline Rumble Stripes may only be used if justified by crash history and if the road meets the following conditions:
  - a. Design Speed of 45 mph or greater
  - b. ADT of 1500 or greater
  - c. Lane width of 12 feet or greater
  - d. Undivided Section
  - e. No passing or one way passing zone
- For concrete shoulders, the rumble strip is to be placed in accordance with standard drawings RP-CS-1 or RP-CS-2. Item No. 501-03.10, Concrete Shoulder Rumble Strips, L.F. The length of scoring shall be measured as the actual length of pavement scored.
- Rumble Strip for Interstate or Freeway, See STD DWG T-M-15
  Rumble Strip for Non-access controlled route, See STD DWG T-M-15A
  Edgeline Rumble Stripe, See STD DWG T-M-16
  Centerline Ruble Stripe, See STD DWG T-M-16A
- 9. See 4-411.03 and 4-411.04 for additional guidance regarding rumble strip and rumble stripe placement.