



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

INSTRUCTIONAL BULLETIN NO. 10-01

Regarding the New Rumble Strip and Rumble Stripe Installation Details  
Standard Drawings

Effective for the March 19, 2010 letting (January 13, 2010 Turn-In Date), the new standard drawings, T-M-15, Asphalt Shoulder Rumble Strip Installation Details for Interstate and Access Controlled Routes; T-M-15A, Asphalt Shoulder Rumble Strip Installation Details for Non-Access Controlled Routes; T-M-16, Asphalt Shoulder Rumble Stripe Installation Details for Non-Access Controlled Routes.

Until the drawings are added to the standard drawings, they are to be printed with the plans. The drawings shall be identified on the lower left side of the index sheet "To be printed with plans".

ROADWAY STANDARD DRAWINGS

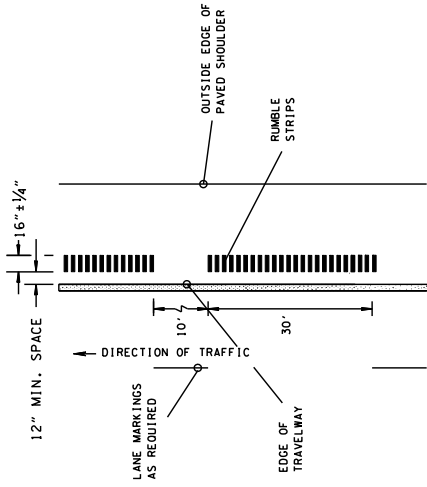
<u>Drawing Number</u>	<u>Current Revision Date</u>	<u>Drawing Title</u>
T-M-15		Asphalt Shoulder Rumble <b>Strip</b> Installation Details for Interstate and Access Controlled Routes
T-M-15A		Asphalt Shoulder Rumble <b>Strip</b> Installation Details for Non-Access Controlled Routes
T-M-16		Asphalt Shoulder Rumble <b>Stripe</b> Installation Details for Non-Access Controlled Routes

Copies of the new standard drawings are attached.

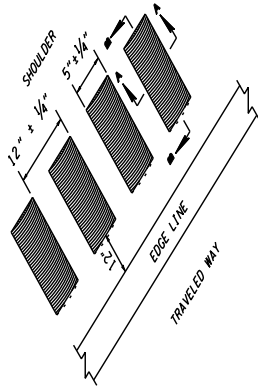
Original signed by Jeff C. Jones  
Jeff C. Jones, Civil Engineering Director  
Design Division

January 12, 2010  
JCJ:arh  
Attachment

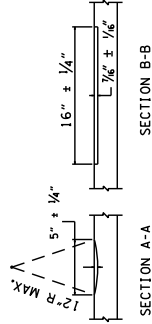
TYPICAL RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES



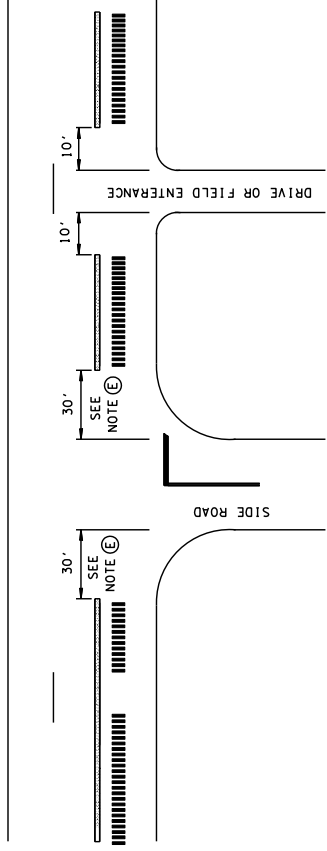
AVAILABLE PAVED SHOULDER WIDTH 8' OR GREATER



ISOMETRIC VIEW



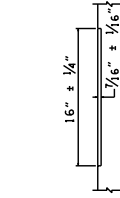
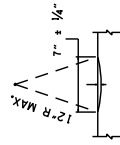
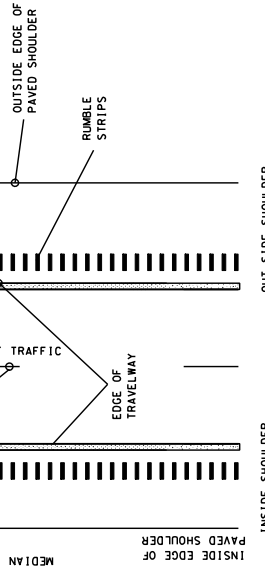
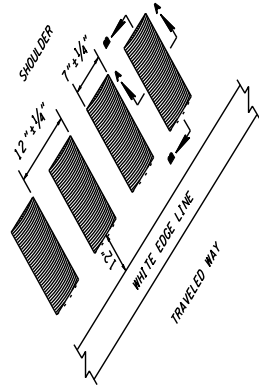
TYPICAL RUMBLE STRIP INSTALLATION



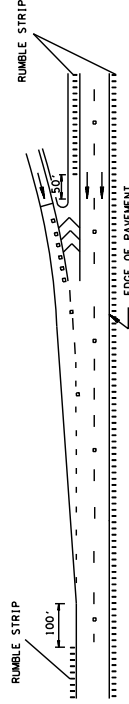
SIDE ROAD AND DRIVEWAY RUMBLE STRIP INSTALLATION DETAILS

- RUMBLE STRIP GENERAL NOTES**
- (A) WHEN RUMBLE STRIPS ARE USED ON NON-ACCESS CONTROLLED FACILITIES, THEY SHOULD BE DISCONTINUED IN ADVANCE OF DRIVEWAYS, INTERSECTIONS, AND MEDIAN OPENINGS.
  - (B) MILLED-IN RUMBLE STRIP WITH 5" x 1/4" GROOVES, 7/16" x 1/16" DEEP, ON 12" x 1/4" SPACING.
  - (C) A 10 FOOT LONG GAP BETWEEN 30 FOOT LONG SECTIONS OF RUMBLE STRIPS IS REQUIRED TO ACCOMMODATE BICYCLES.
  - (D) ON NON-ACCESS CONTROLLED ROUTES WITH A MEDIAN AND/OR INSIDE SHOULDERS, CONTINUOUS RUMBLE STRIPS SHOULD BE PLACED IN ACCORDANCE WITH SECTION 1612.02. INSTALLATION ON L.M. BREAKS SHALL BE MADE AT SIDE ROADS AND MEDIAN OPENINGS BREAKS SHALL BEGIN 10' PRIOR TO OPENING.
  - (E) WHEN THE SIDE ROAD RADIUS IS GREATER THAN 30', RUMBLE STRIP APPLICATION SHOULD BE DISCONTINUED 50' IN ADVANCE OF THE INTERSECTION.
  - (F) RUMBLE STRIPS SHOULD ONLY BE PLACED ON PAVED SHOULDERS.
  - (G) RUMBLE STRIP INSTALLATION SHALL BE PAID UNDER ITEM NUMBER 411-12.02, SCORING SHOULDERS (NON-CONTINUOUS) (16" WIDTH) PER L.M.

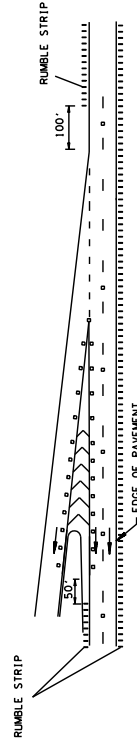
TYPICAL RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATES AND ACCESS CONTROLLED ROUTES



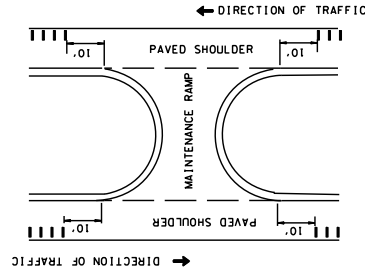
TYPICAL RUMBLE STRIP INSTALLATION DETAILS



ENTRANCE RUMBLE STRIP INSTALLATION DETAILS



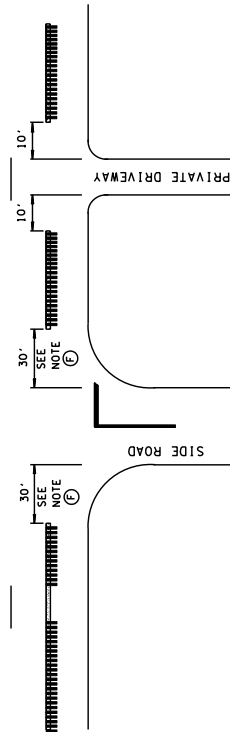
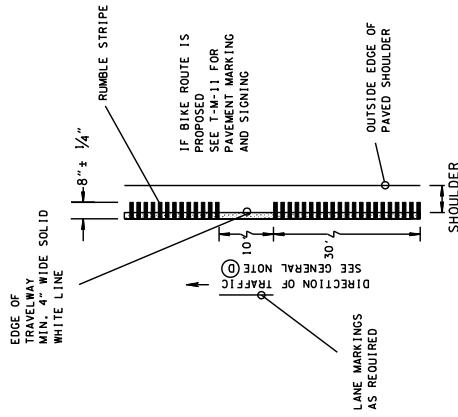
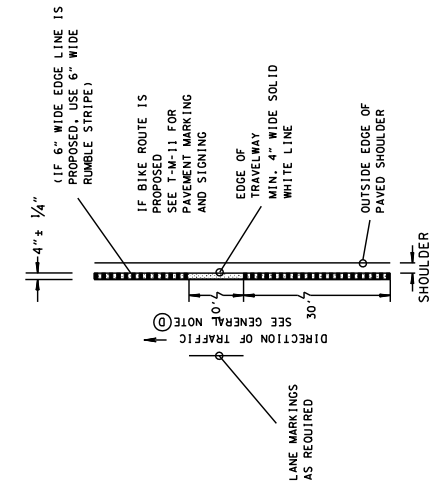
EXIT RUMBLE STRIP INSTALLATION DETAILS



MAINTENANCE RUMBLE STRIP INSTALLATION DETAILS

RUMBLE STRIP DESIGN NOTES	
①	MILLED-IN RUMBLE STRIP WITH 7" ± 1/4" GROOVES, 1/16" ± 1/16" DEEP, ON 12" INCH SPACING
②	RUMBLE STRIP INSTALLATION SHALL BE PAID UNDER ITEM NUMBER 411-12-01. SCORING SHOULDERS (CONTINUOUS) (16" WIDTH) PER L.M.

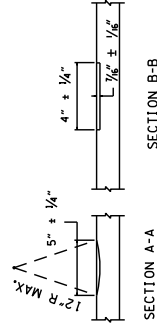
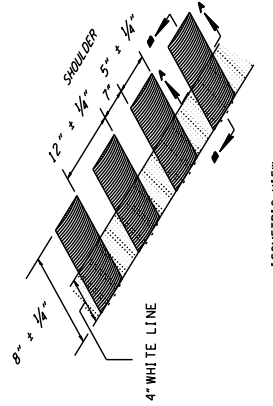
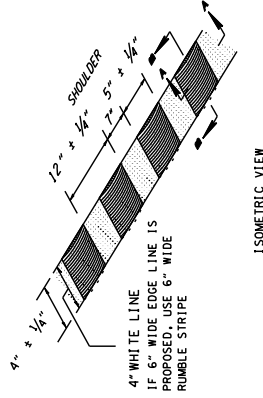
# TYPICAL RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES



## SIDE ROAD AND DRIVEWAY RUMBLE STRIPE INSTALLATION DETAILS

AVAILABLE PAVED SHOULDER WIDTH 0' - 2'

AVAILABLE PAVED SHOULDER WIDTH 2' OR GREATER



TYPICAL 4" WIDE RUMBLE STRIPE INSTALLATION

TYPICAL 8" WIDE RUMBLE STRIPE INSTALLATION

- RUMBLE STRIPE GENERAL NOTES**
- Ⓐ WHEN RUMBLE STRIPES USED ON NON-ACCESS CONTROLLED FACILITIES, THEY SHOULD BE DISCONTINUED IN ADVANCE OF DRIVEWAYS, INTERSECTIONS, AND MEDIAN OPENINGS.
  - Ⓑ MILLED-IN RUMBLE STRIPE WITH 2" x 1/4" GROOVES, 3/16" x 1/16" DEEP, ON 12" x 1/4" SPACING.
  - Ⓒ WHEN RUMBLE STRIPES ARE INSTALLED ON ACCESS CONTROLLED ROUTES, THE RUMBLE IS TO BE DISCONTINUED WITHIN THE 10' GAP. RUMBLE WIDTH SHALL BE 16" WIDE AS DETAILED ON STD. DWG. T-M-115.
  - Ⓓ A 10 FOOT LONG GAP BETWEEN 30 FOOT LONG SECTIONS OF RUMBLE STRIPES IS REQUIRED TO ACCOMMODATE BICYCLES.
  - Ⓔ RUMBLE STRIPES SHOULD NOT BE USED WHEN BIKE LANE IS PRESENT.
  - Ⓕ SIDE ROAD RUMBLE STRIPES GREATER THAN 30' RUMBLE STRIPE APPLICATION SHOULD BE DISCONTINUED 30' IN ADVANCE.
  - Ⓖ RUMBLE STRIPE INSTALLATION SHALL BE PAID UNDER THE FOLLOWING ITEM NUMBERS  
411-12-03. SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8" WIDTH) PER L.M.  
411-12-04. SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (4" WIDTH) PER L.M.

NOTE:  
4" WIDE RUMBLE STRIPE APPLICATION SHOULD BE DISCONTINUED 30' IN ADVANCE AND RUMBLE STRIPE IS REQUIRED FOR A SAFETY UPGRADE.