

Maine Department of Transportation

Highway Program

Design Guidance

Title: Rumble Strip Detail Sheets	Revised Date: September 8, 2016
Discipline: General Engineering	
Originators: Brad Foley, P.E., Steve Bodge, P.E., Duane Brunell, P.E., Amelia DeGrace, P.E., Natasha Collins	Reference: Engineering Instruction #C9
Approved By: Bradford Foley, P.E.	

Background:

Engineering Instruction C9 has been published for Rumble Strips.

Since Rumble Strip installations vary by road setting, detail sheets have been developed to provide guidance.

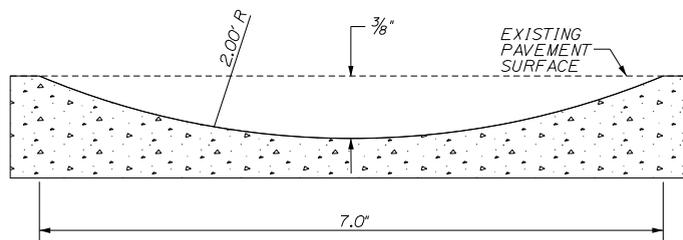
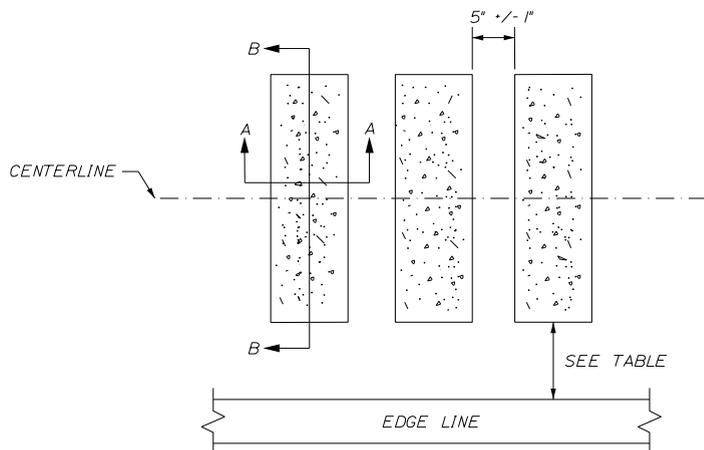
Experienced MaineDOT field personnel should be involved in the layout of rumble strips prior to their installation.

Guidance:

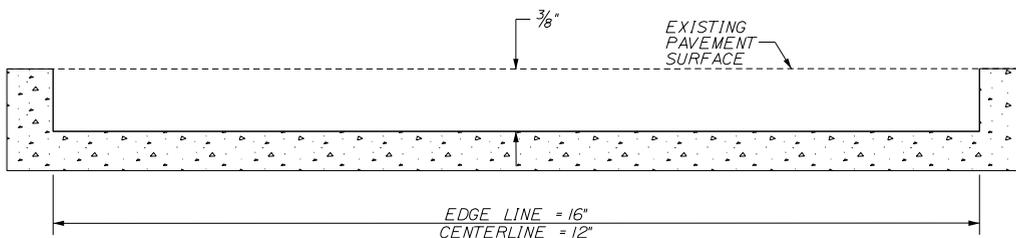
The following pages contain Rumble Strip Detail sheets for:

- Dimensions (general)
- Bridges and Entrances
- Cross-Overs on Divided Highways
- Ramps
- Intersections
- Left Turn Lanes and Islands
- Undivided Highways (passing and no passing zones)

EDGE LINE & CENTERLINE



SECTION A-A
(NOT TO SCALE)



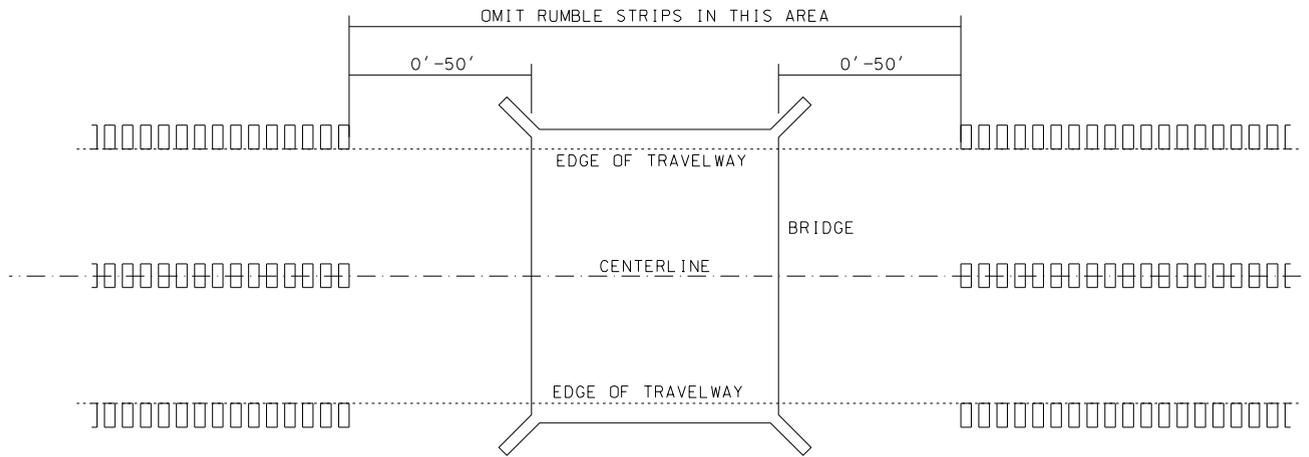
SECTION B-B
(NOT TO SCALE)

NOTES:

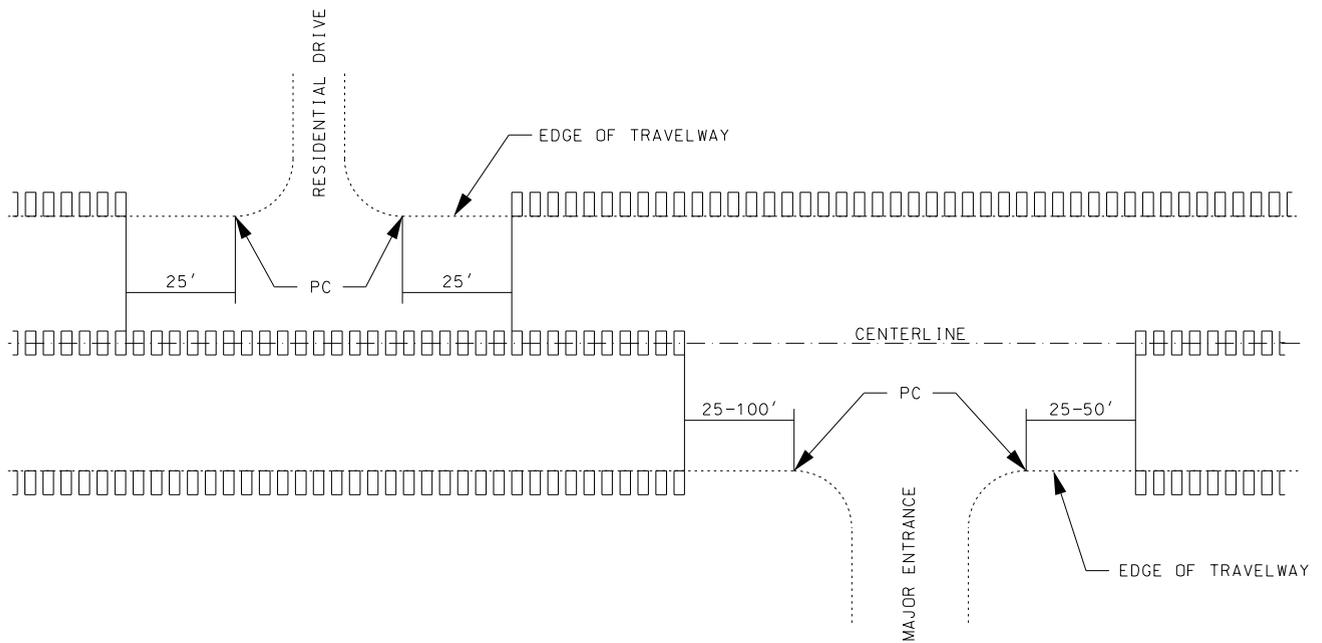
1. ALL RUMBLE STRIPS SHALL BE MILLED
2. RUMBLE STRIPS SHOULD NOT BE PLACED ON BRIDGES
3. EMULSIFIED ASPHALT SEAL COAT SHALL BE APPLIED OVER RUMBLE STRIPS AND PAID UNDER THE APPROPRIATE ITEM. SEAL COAT SHALL BE APPLIED 3" WIDER THAN THE RUMBLE STRIP IN BOTH DIRECTIONS.
4. ON DIVIDED HIGHWAYS USE EDGE LINE RUMBLE STRIP DETAILS FOR BOTH SIDES OF THE ROAD.

PRIORITY 1 & 2 ROADS	
PRIORITY 3 THROUGH 6 ROADS	

RUMBLE STRIPS - DIMENSIONS

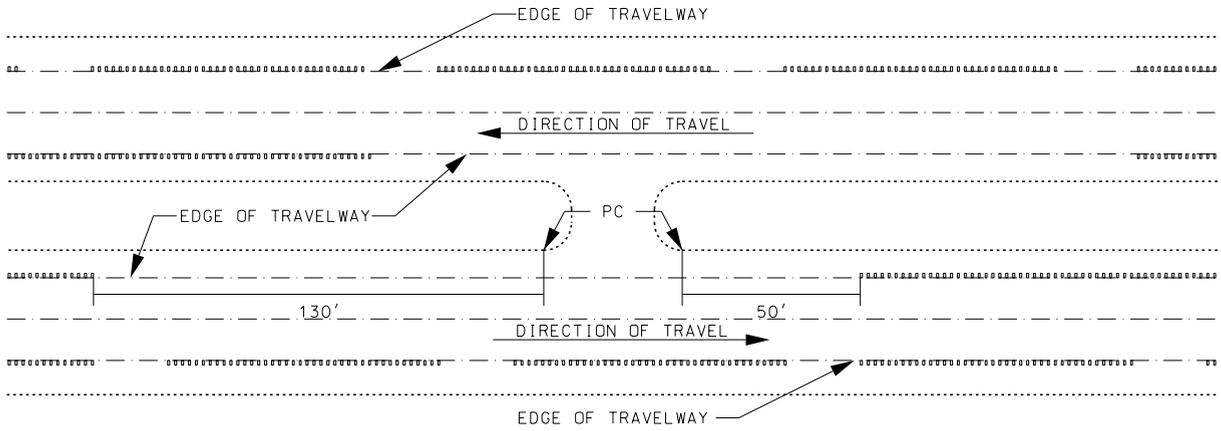


BRIDGE

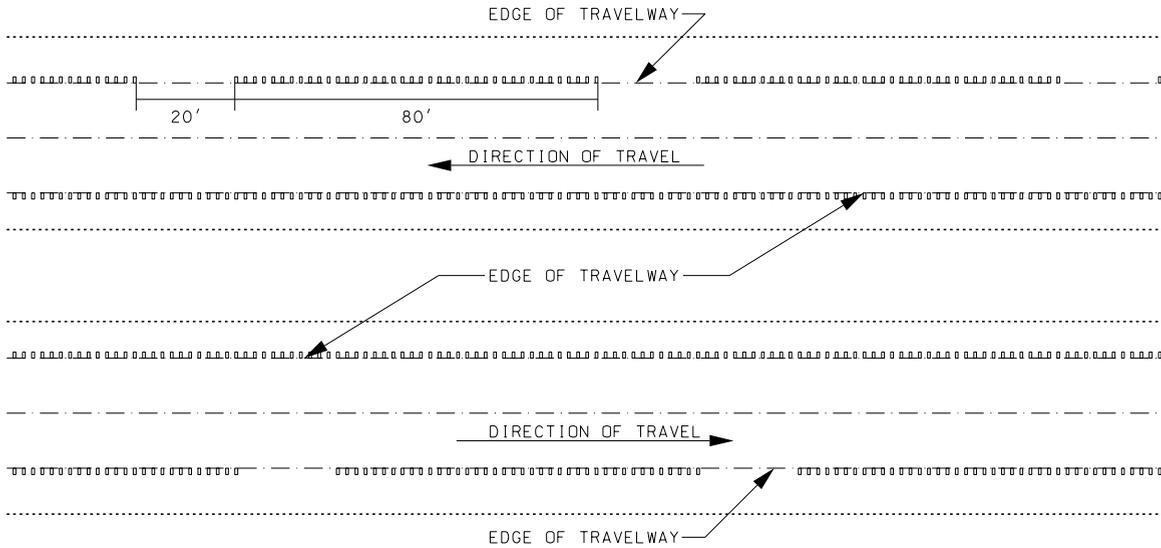


DRIVES & ENTRANCES

*RUMBLE STRIP - PLACEMENT ON
UNDIVIDED HIGHWAYS*

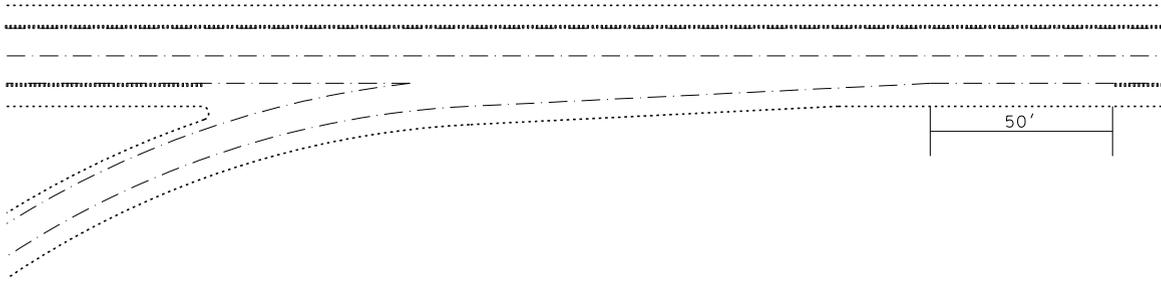


CROSS OVER



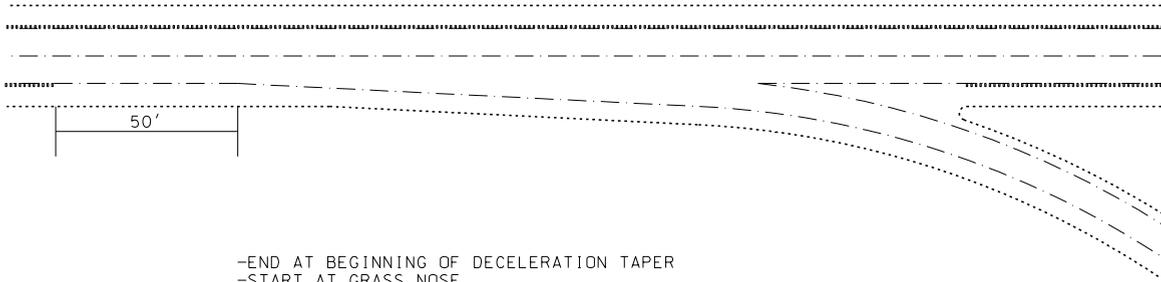
STANDARD DIVIDED HIGHWAY

RUMBLE STRIPS - PLACEMENT ON DIVIDED HIGHWAYS



-END AT GRASS NOSE
 -START AT END OF SHOULDER ACCELERATION TAPER

ON RAMPS

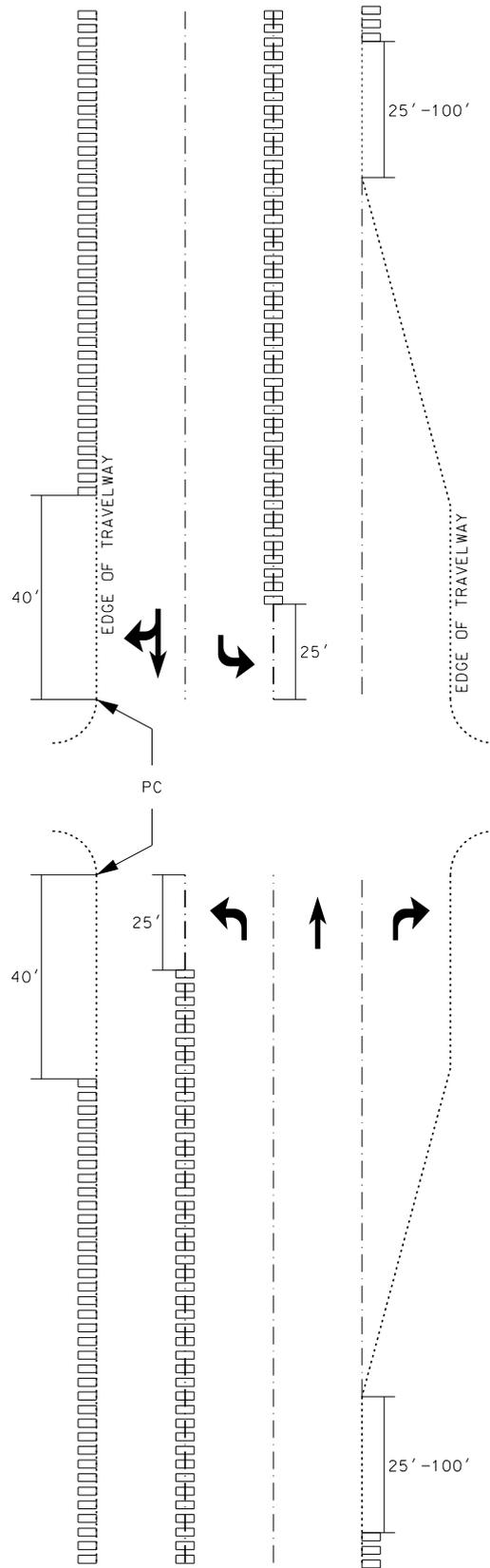


-END AT BEGINNING OF DECELERATION TAPER
 -START AT GRASS NOSE

OFF RAMPS

RUMBLE STRIPS - PLACEMENT ON RAMPS

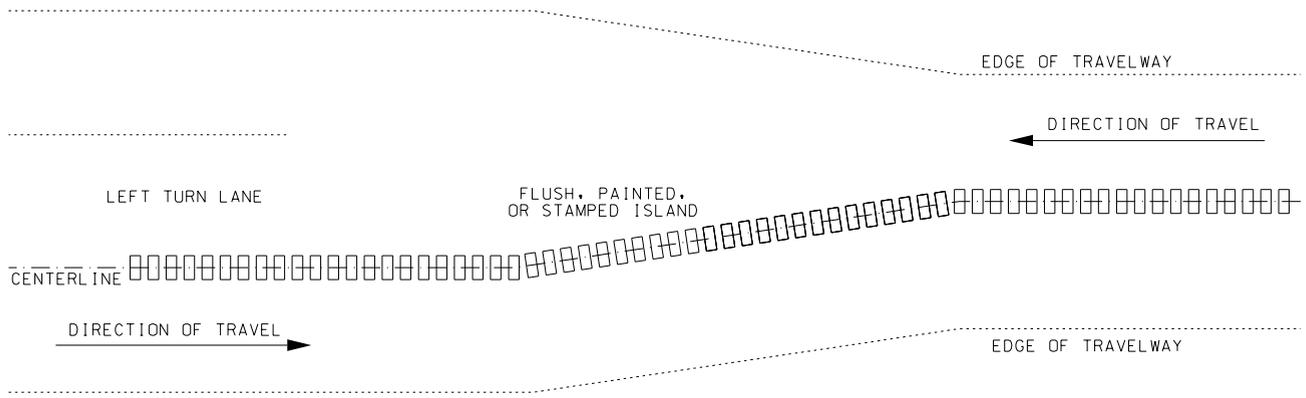
July 13, 2016



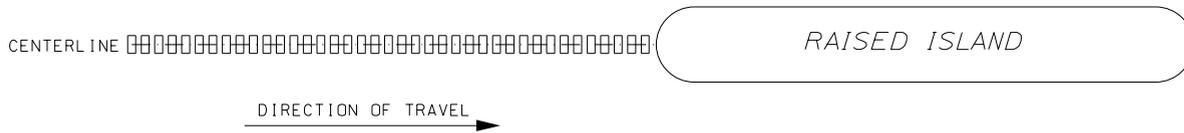
STOP RUMBLES 25'-100' BEFORE OR AFTER TAPER FOR SEMI-TRAILER OFF TRACKING ISSUE AVOIDANCE

RUMBLE STRIPS - PLACEMENT ON UNDIVIDED HIGHWAYS

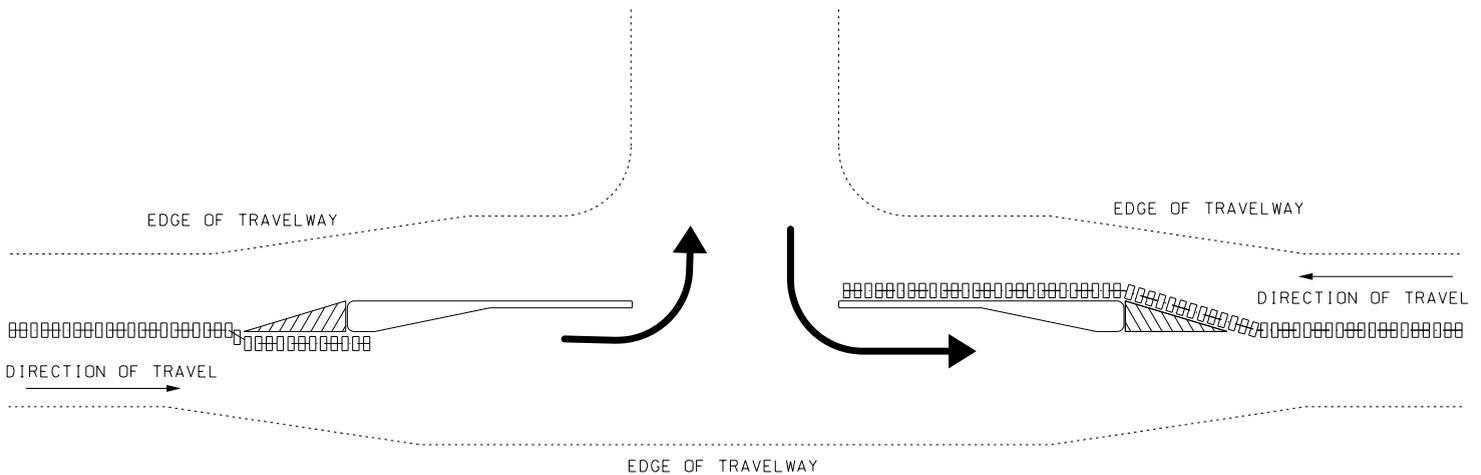
July 13, 2016



*INTERSECTION OR AUXILIARY LEFT TURN LANES
(OPTIONAL)*

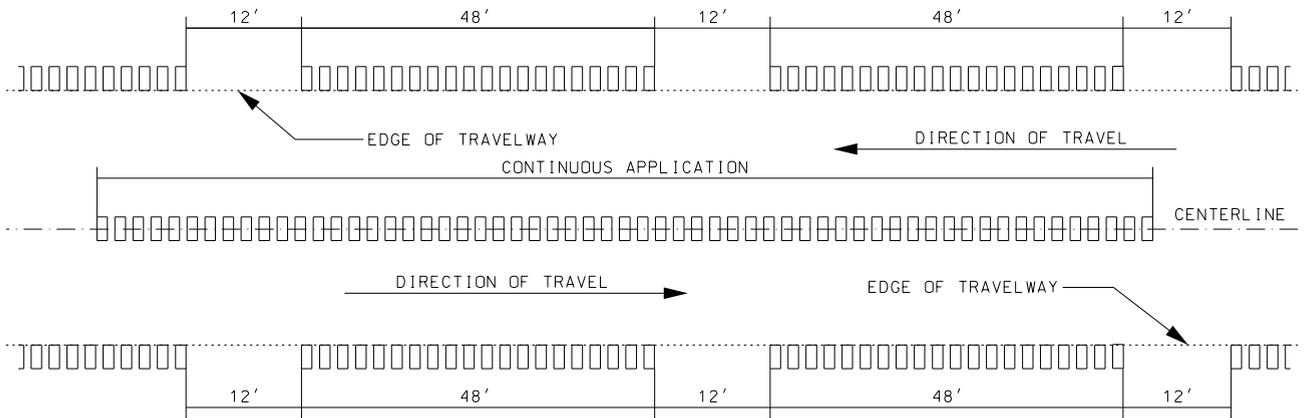


RAISED ISLAND

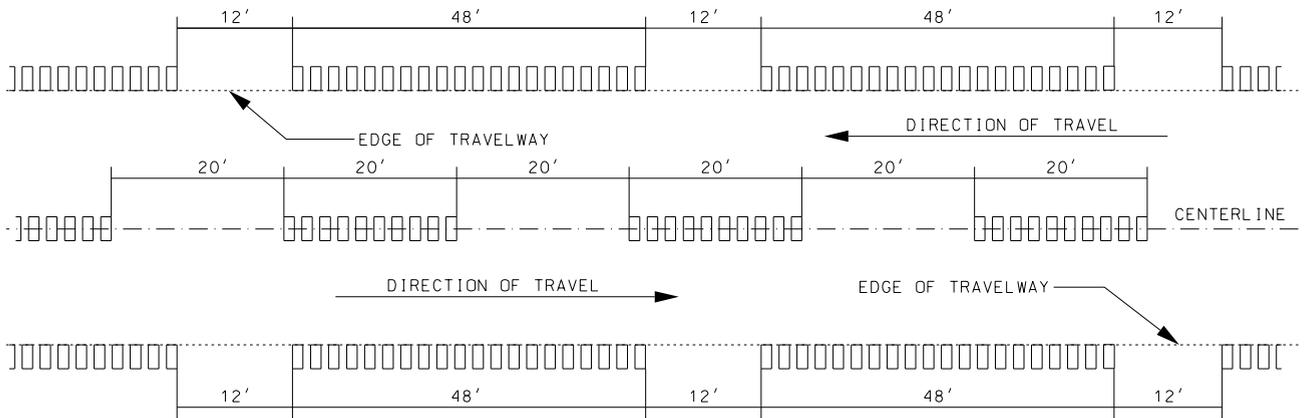


LEFT TURN LANE

RUMBLE STRIPS - SPECIAL SITUATIONS



*STANDARD PATTERN
(NO PASSING ZONES)*



-THIS PATTERN IS APPLICABLE IN SITUATIONS WHERE PASSING MOVEMENTS ARE ALLOWED IN EITHER DIRECTION OR IN BOTH DIRECTIONS.

*STANDARD PATTERN
(PASSING ZONES)*

*RUMBLE STRIP - PLACEMENT ON
UNDIVIDED HIGHWAYS*

July 13, 2016