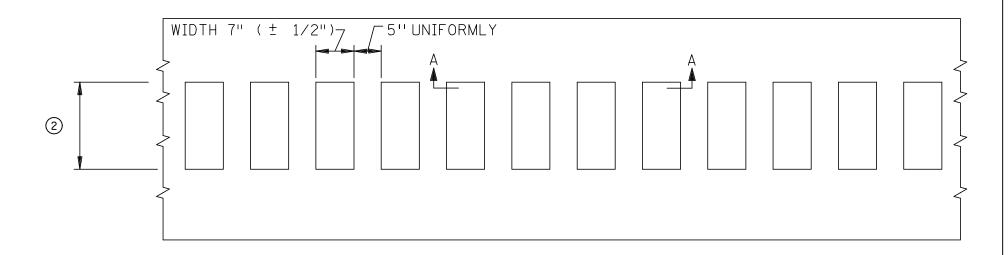
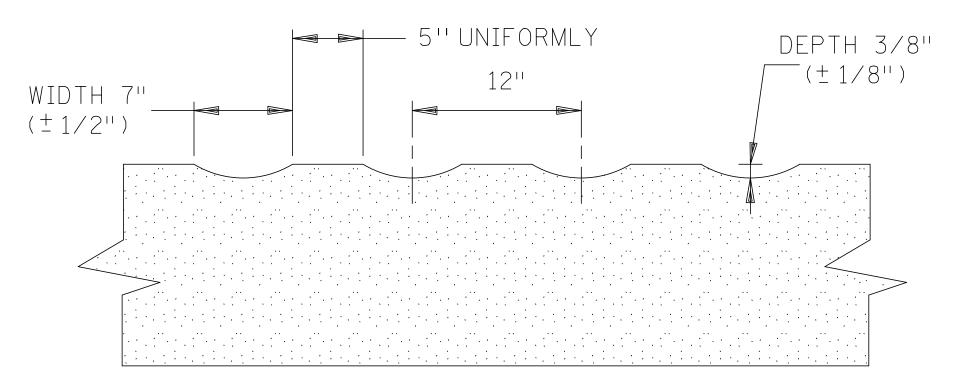
@ RECTANGULAR CORRUGATED RUMBLE STRIP PATTERN

PLAN VIEW



SECTION A-A



DESIGNER NOTES:

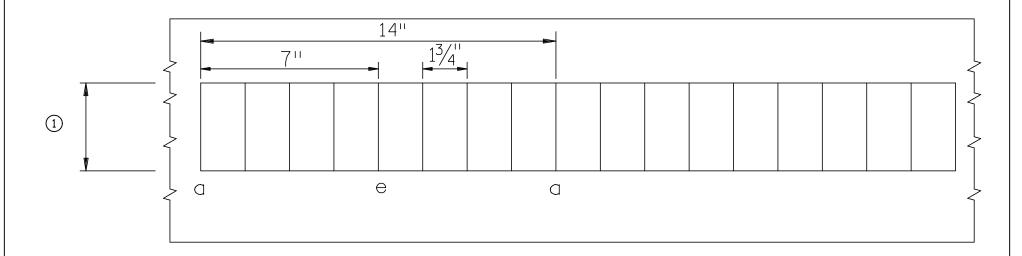
- 1 RECTANGULAR CORRUGATED RUMBLE STRIPS SHALL NOT BE USED AS A CENTERLINE RUMBLE STRIP ON CONCRETE PAVEMENTS.
- 2 SHOULDER RUMBLE STRIPS ARE WITHIN THE RANGE OF 8-12 IN. A 16 IN SHOULDER RUMBLE STRIP IS REQUIRED ON FREEWAY SEGMENTS.

 THE STANDARD WIDTH OF CENTERLINE RUMBLE STRIPS ON BITUMINOUS PAVEMENTS IS 14 IN.

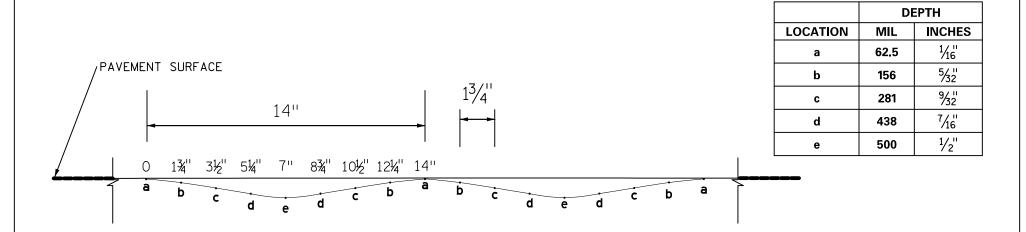
PUBLISHED BY OTE: 08/21/2017 MODIFIED:

SINUSOIDAL RUMBLE STRIP PATTERN

PLAN VIEW



PROFILE VIEW



DESIGNER NOTES:

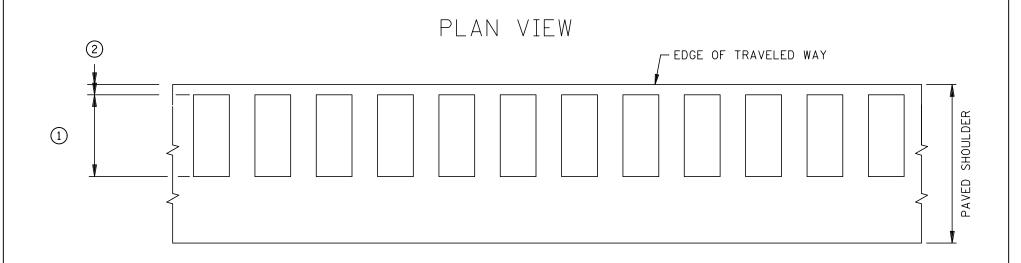
1 SHOULDER RUMBLE STRIPS ARE WITHIN THE RANGE OF 8-12 IN. A 16 IN SHOULDER RUMBLE STRIP IS REQUIRED ON FREEWAY SEGMENTS.

THE STANDARD WIDTH OF CENTERLINE RUMBLE STRIPS ON BITUMINOUS PAVEMENTS IS 14 IN. INPUT CORRECT RUMBLE WIDTH.

FOR CONCRETE PAVEMENTS, A SPLIT RUMBLE DESIGN OF 6 IN SHALL BE USED.

PUBLISHED BY OTE: 08/21/2017 MODIFIED:

BITUMINOUS SHOULDER RUMBLE STRIP - CONTINUOUS CYCLE



DESIGNER NOTES:

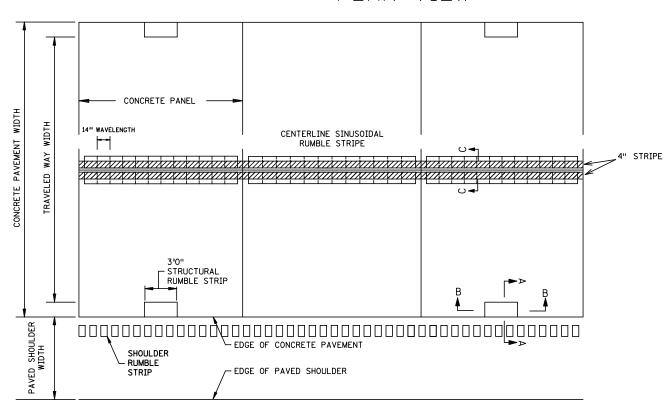
- 1 SHOULDER RUMBLE STRIPS ARE WITHIN THE RANGE OF 8-12 IN. A 16 IN SHOULDER RUMBLE STRIP IS REQUIRED ON FREEWAY SEGMENTS.
- 2) THE DISTRICT TRAFFIC ENGINEER HAS FLEXIBILITY RELATED TO THE LATERAL PLACEMENT OF THE RUMBLE STRIP. TYPICAL DISTANCES FOLLOW THE TABLE BELOW.

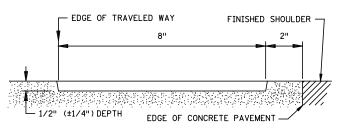
	SHOULDER WIDTH	DISTANCE FROM JOINT
BITUMINOUS FREEWAYS	_	24"
BITUMINOUS MULTILANE HIGHWAY	WIDTH < 6′	2"
BITUMINOUS MULTILANE HIGHWAY	WIDTH ≥ 6'	12"

PUBLISHED BY OTE: 08/21/2017

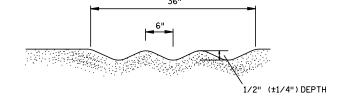
CONCRETE STRUCTURAL RUMBLE STRIP OPTION 1 - CONTINUOUS CYCLE

PLAN VIEW

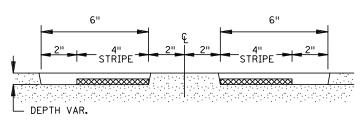




SECTION A-A



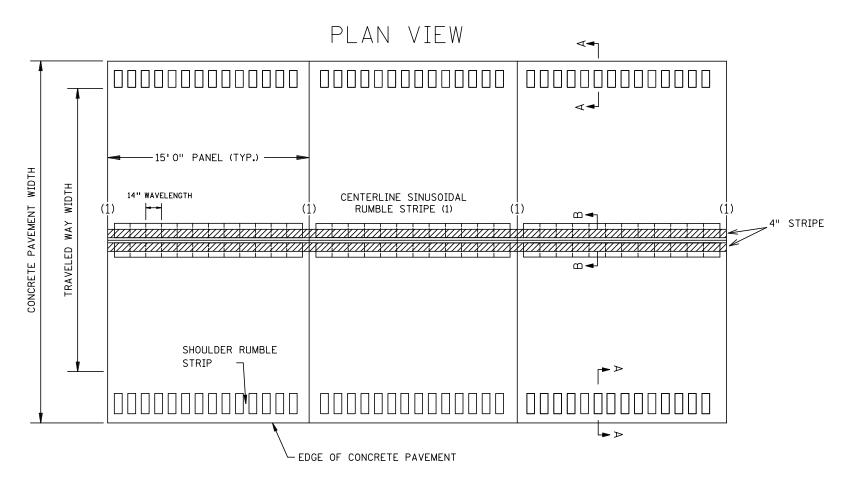
SECTION B-B

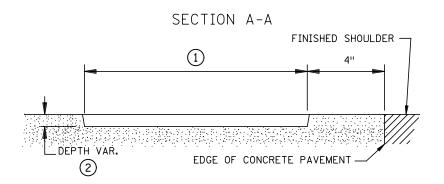


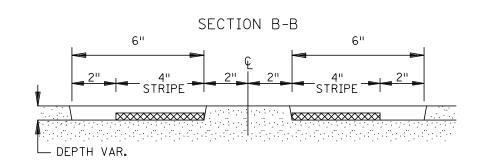
SECTION C-C

PUBLISHED BY OTE: 08/21/2017

CONCRETE STRUCTURAL RUMBLE STRIP OPTION 2





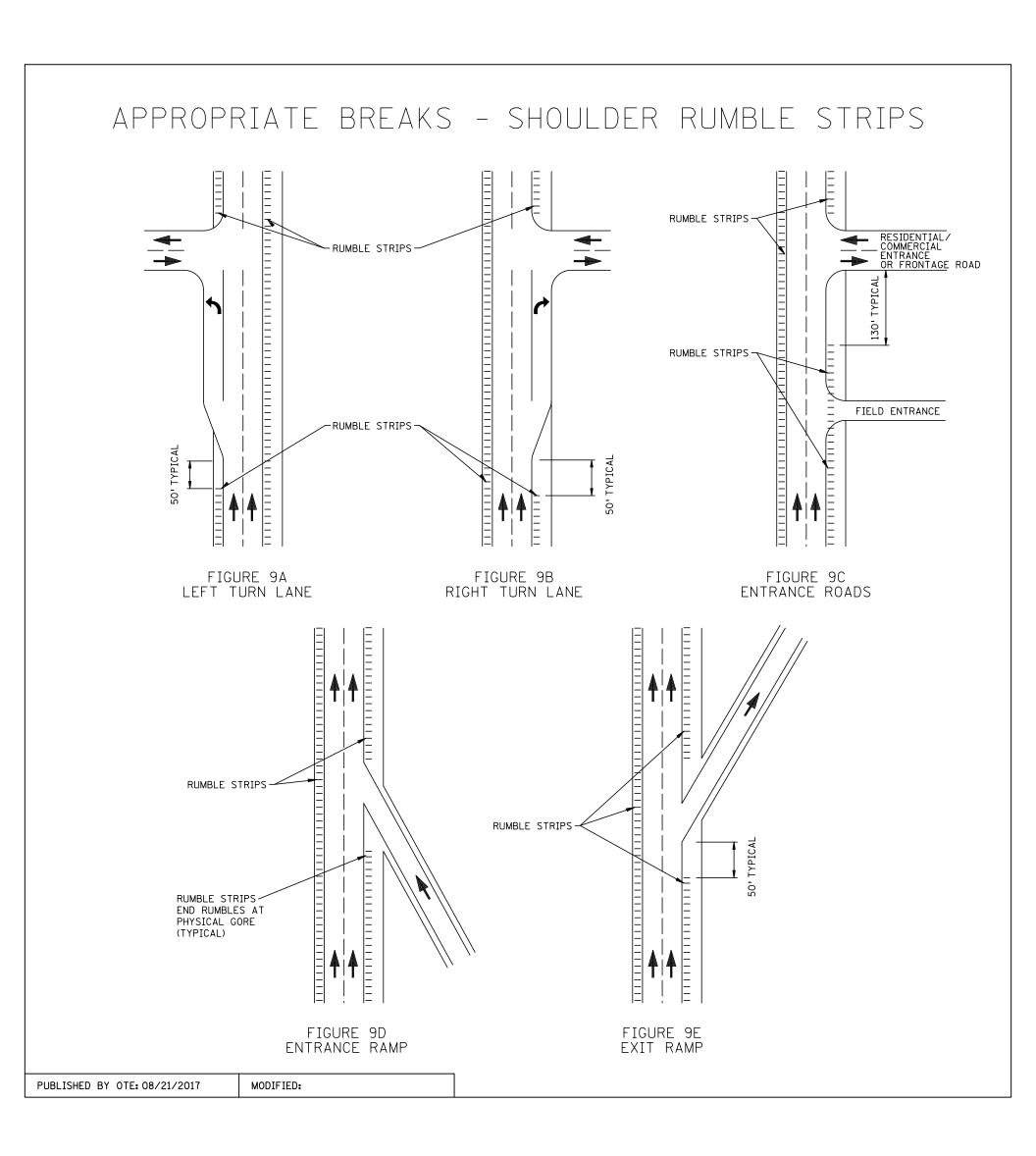


DESIGNER NOTES:

- 1 SHOULDER RUMBLE STRIPS ARE WITHIN THE RANGE OF 8-12 IN. A 16 IN SHOULDER RUMBLE STRIP IS REQUIRED ON FREEWAY SEGMENTS.

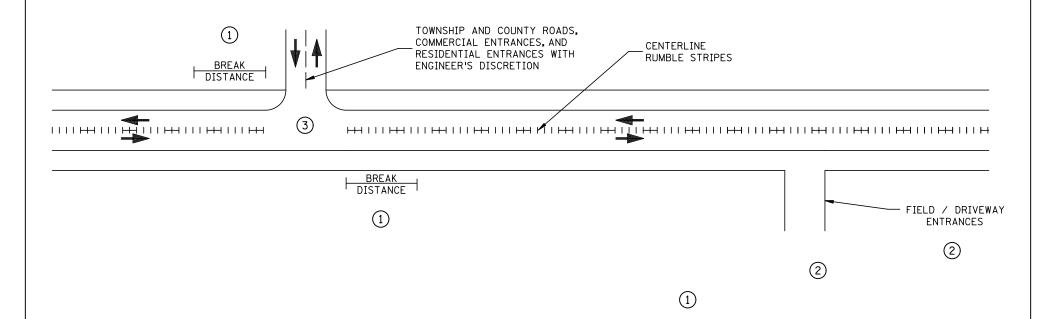
 LABEL SECTION A-A WITH THE DESIRED RUMBLE STRIP WIDTH.
- 2 INPUT THE CORRECT DEPTH CORRESPONDING TO THE CHOSEN RUMBLE STRIP DESIGN

PUBLISHED BY OTE: 08/21/2017 MODIFIED:



APPROPRIATE BREAKS

- CENTERLINE RECTANGULAR CORRUGATED RUMBLE STRIP

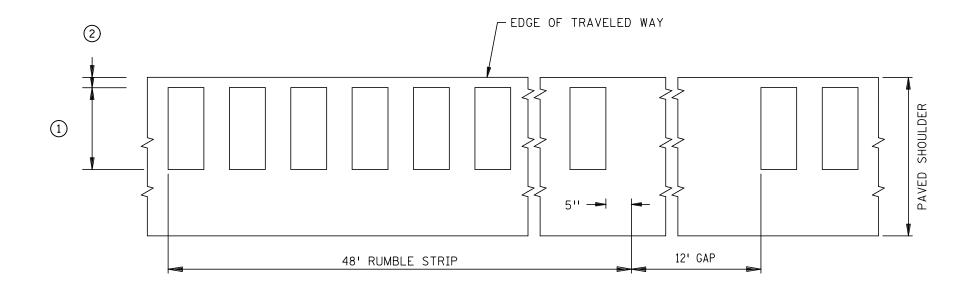


DESIGNER NOTES:

- 1) THE DESIGNER HAS THE FLEXIBILITY TO INCLUDE A BREAK DISTANCE. THE RUMBLE MAY END AT THE MAINLINE RADII POINT, IF NOT, TYPICAL BREAK DISTANCES HAVE BEEN APPROXIMATELY 200 FT. IF BREAK DISTANCE IS USED, PLACE DIMENSION FOR BREAK DISTANCE ON THE TYPICAL AND MODIFY GENERAL NOTE 2.
- 2 REMOVE THE FIRST GENERAL NOTE IF RUMBLING IS DISCONTINUED FOR ANY FIELD/DRIVEWAY ENTRANCE AND ALSO DELETE THE FIELD/DRIVEWAY ENTRANCE FROM THE FIGURE.
- 3 FOR ENTRANCES OTHER THAN FIELD/DRIVEWAY ENTRANCES, RUMBLE STRIPS TYPICALLY DO NOT CONTINUE THROUGH THE
 INTERSECTION DUE TO NOISE CONCERNS. IF AN INTERSECTION IS RUMBLED, THE FIGURE MUST BE ADJUSTED SO THAT RUMBLES
 CONTINUE THROUGH THE INTERSECTION.

SHOULDER RUMBLE STRIP - INTERMITTENT CYCLE

PLAN VIEW



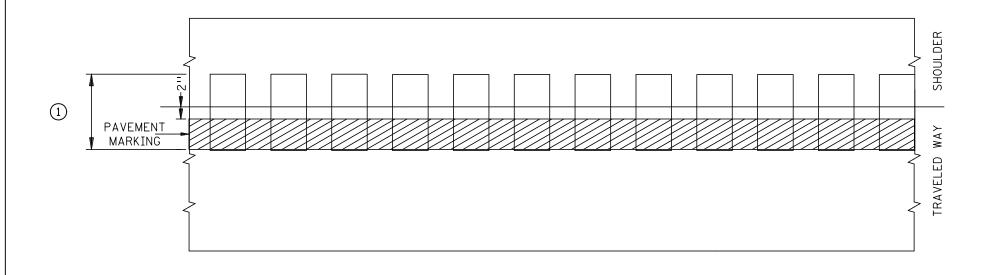
DESIGNER NOTES:

- 1 SHOULDER RUMBLE STRIPS ARE WITHIN THE RANGE OF 8-12 IN. A 16 IN SHOULDER RUMBLE STRIP IS REQUIRED ON FREEWAY SEGMENTS.
- 2 FOR BITUMINOUS FREEWAYS THE SPACING IS 24 IN. FOR BITUMINOUS MULTI-LANE EXPRESSWAYS, THE SPACING SHOULD BE
 2 IN WHERE SHOULDER WIDTH IS LESS THAN 6 FT AND 12 IN WHERE SHOULDER WIDTH IS 6 FT OR GREATER.

PUBLISHED BY OTE: 08/21/2017

BITUMINOUS EDGELINE RUMBLE STRIPE - CONTINUOUS CYCLE

PLAN VIEW



DESIGNER NOTES:

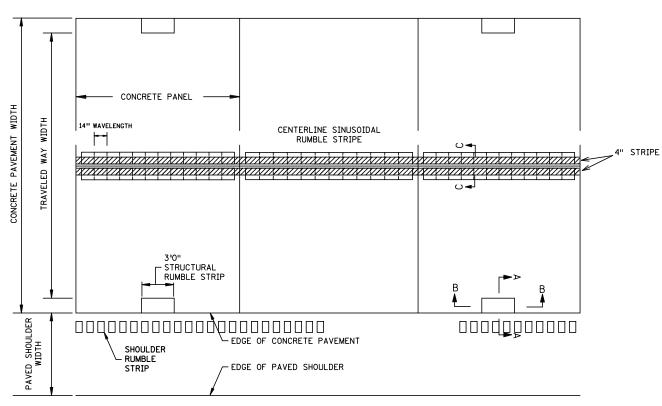
1) EDGELINE RUMBLE STRIPS ARE WITHIN THE RANGE OF 8-12 IN. ALONG FREEWAY SEGMENTS, EDGELINE RUMBLE STRIPS SHALL BE 16 IN.

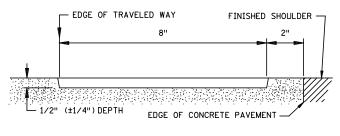
PUBLISHED BY OTE: 08/21/2017

CONCRETE STRUCTURAL RUMBLE STRIP OPTION 1

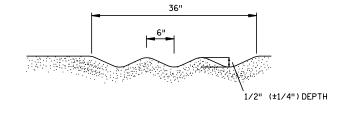
- INTERMITTENT CYCLE

PLAN VIEW

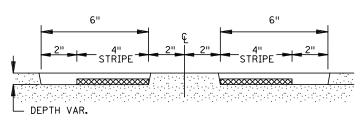




SECTION A-A



SECTION B-B



SECTION C-C

PUBLISHED BY OTE: 08/21/2017

BITUMINOUS CENTERLINE RUMBLE STRIPE PLAN VIEW SECTION A-A 14" - DEPTH VAR. 1 4" STRIPE DESIGNER NOTES: (1) INPUT THE CORRECT DEPTH CORRESPONDING TO THE TYPE OF RUMBLE STRIP USED. USE "DEPTH VAR." FOR THE SINUSOIDAL DESIGN OR [3/8 IN (1/8 IN)] FOR THE RECTANGULAR CORRUGATED DESIGN.

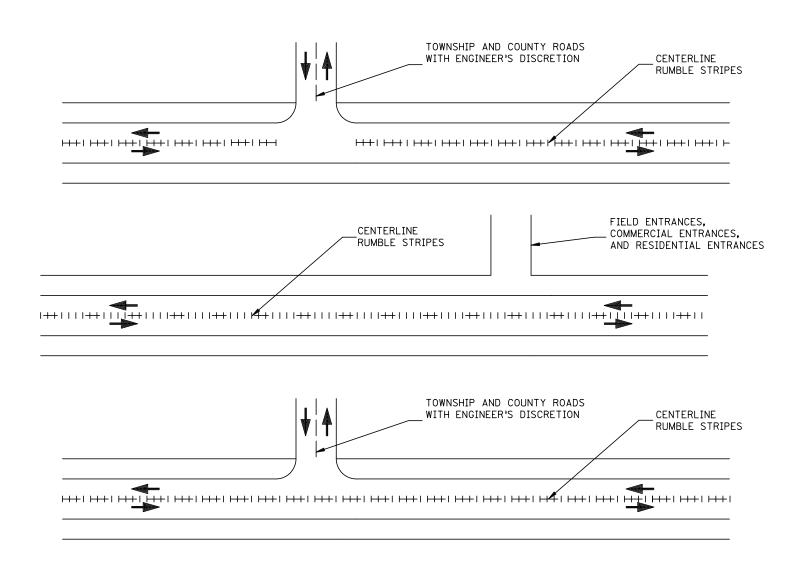
CENTERLINE JOINT TYP.

MODIFIED:

PUBLISHED BY OTE: 08/21/2017

APPROPRIATE BREAKS

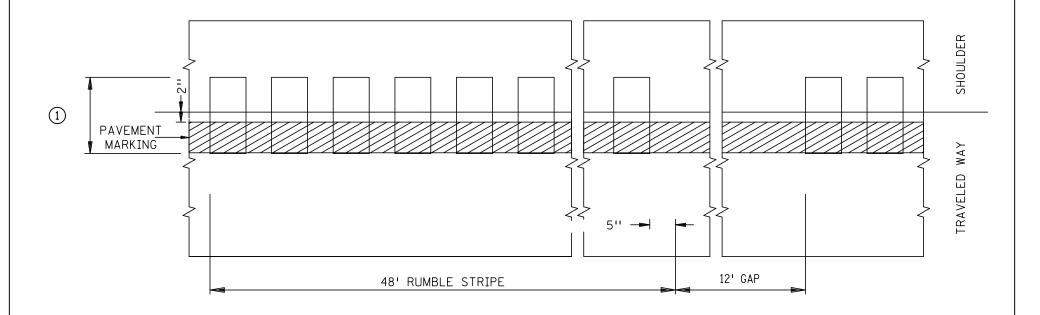
- CENTERLINE SINUSOIDAL RUMBLE STRIP



BITUMINOUS EDGELINE RUMBLE STRIPE - INTERMITTENT CYCLE

PLAN VIEW

PLAN VIEW



DESIGNER NOTES:

1 EDGELINE RUMBLE STRIPS ARE WITHIN THE RANGE OF 8-12". ALONG FREEWAY SEGMENTS, EDGELINE RUMBLE STRIPS SHALL BE 16".

PUBLISHED BY OTE: 08/21/2017