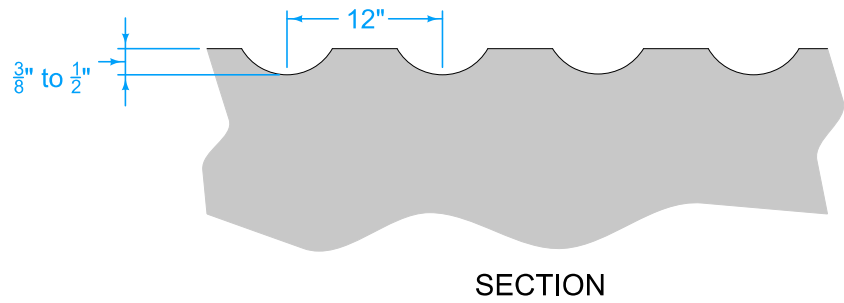
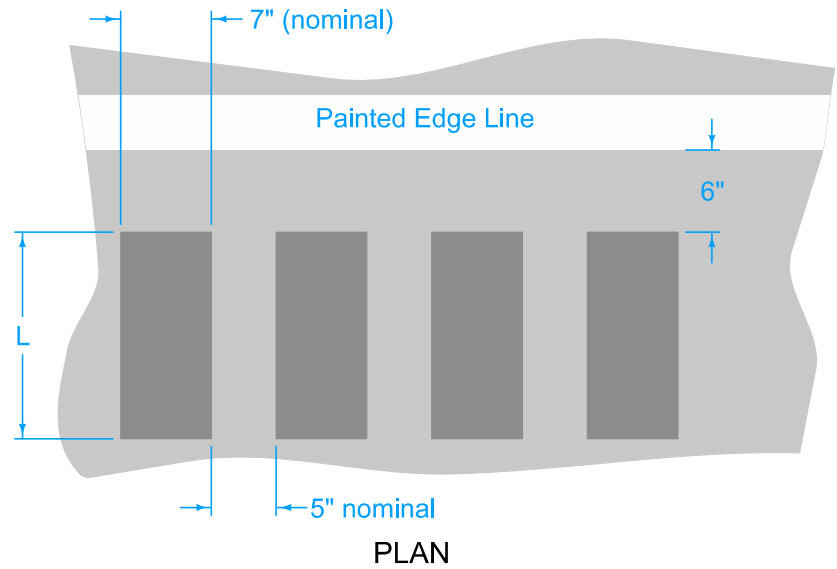
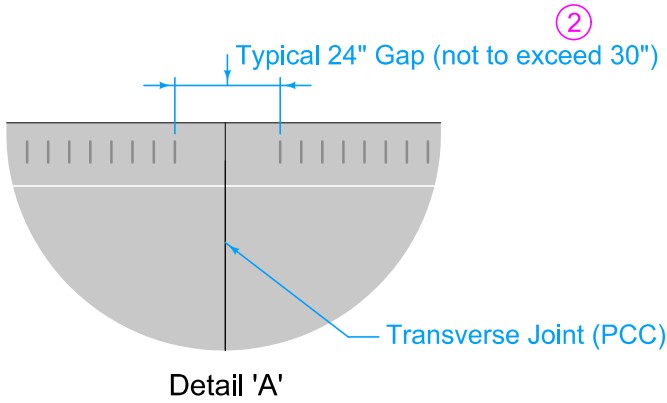
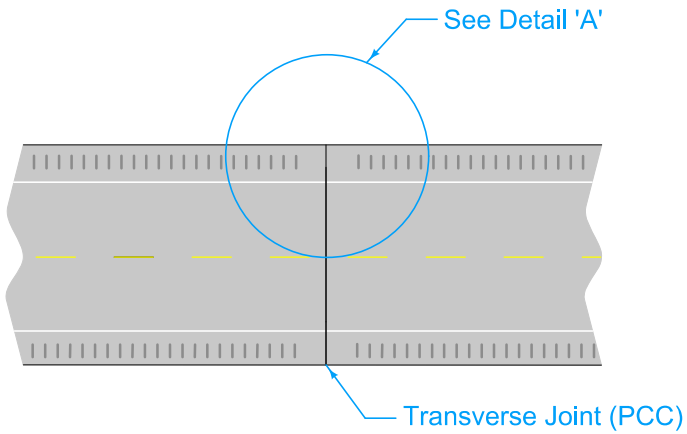




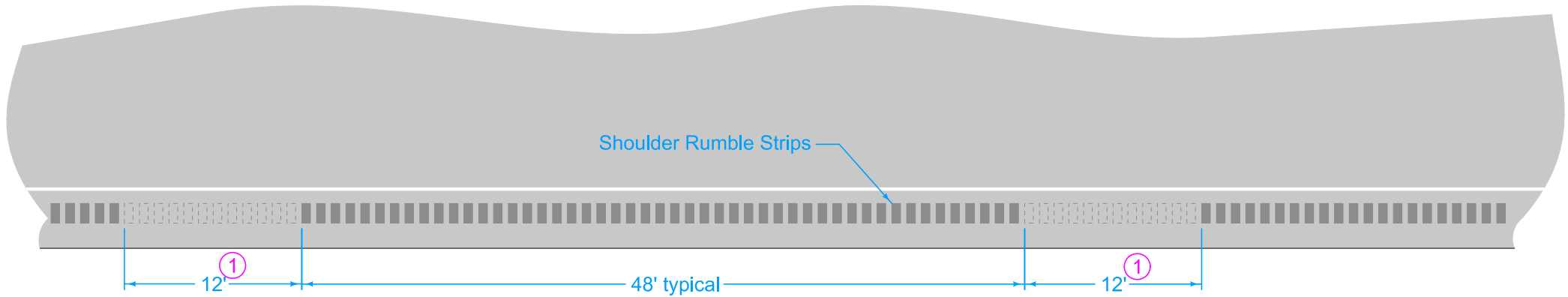
MILLED RUMBLE STRIP



- 1 Place continuous Conventional Rumble Strips (no 12 foot gaps) on all median side shoulders and on all interstate shoulders.
- 2 Gap rumble strips at transverse joints. Centering the gap about the joint is desirable. Maintain a minimum of 6 inches between rumble and transverse joint.

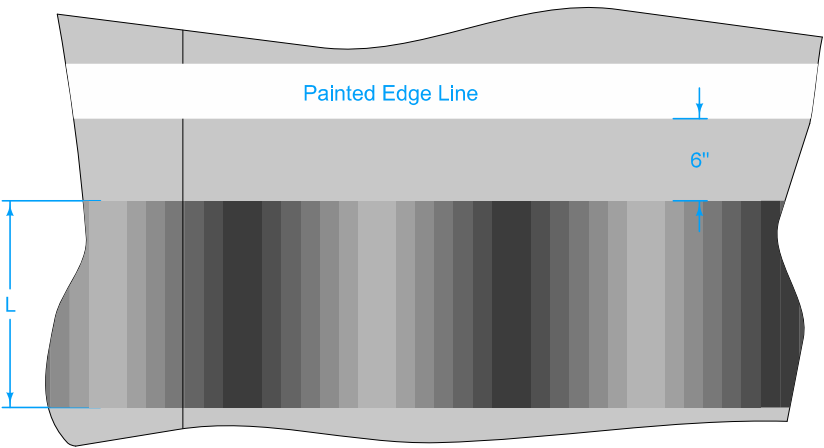
- Possible Contract Items:
- Asphalt Emulsion for Fog Seal (Shoulder Rumble Strips)
 - Milled Shoulder Rumble Strips, HMA Surface
 - Milled Shoulder Rumble Strips, PCC Surface
 - Engineered Emulsion for Fog Seal
 - Engineered Penetrating Fog Seal
 - Milled Sinusoidal Shoulder Rumble Strips, HMA Surface
 - Diamond Ground Sinusoidal Shoulder Rumble Strips, HMA Surface
 - Diamond Ground Sinusoidal Shoulder Rumble Strips, PCC Surface
 - Diamond Ground Shoulder Rumble Strips, PCC Surface
 - Diamond Ground Shoulder Rumble Strips, HMA Surface
 - Milled Rumble Stripe
 - Diamond Ground Rumble Stripe

Possible Tabulation:
112-10

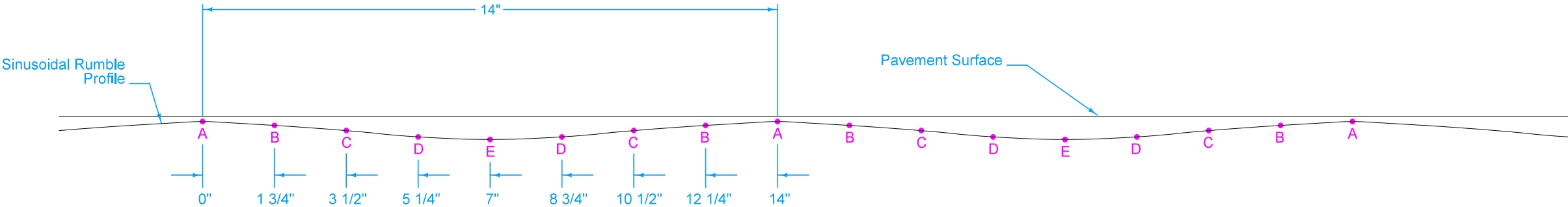


GAP DETAILS

 IOWA DOT	REVISION	
	9	10-20-26
	PV-12	
STANDARD ROAD PLAN		
SHEET 1 of 5		
REVISIONS:	Changed name, added pages 2 and 3, added bid items	
		
APPROVED BY DESIGN METHODS ENGINEER		
SHOULDER RUMBLE STRIPS		



PLAN

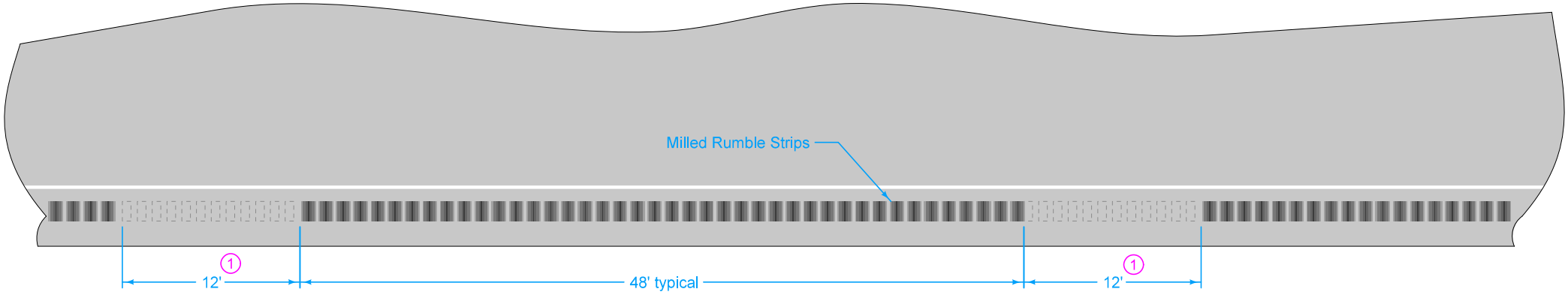


PROFILE

SINUSOIDAL SHOULDER RUMBLE STRIP

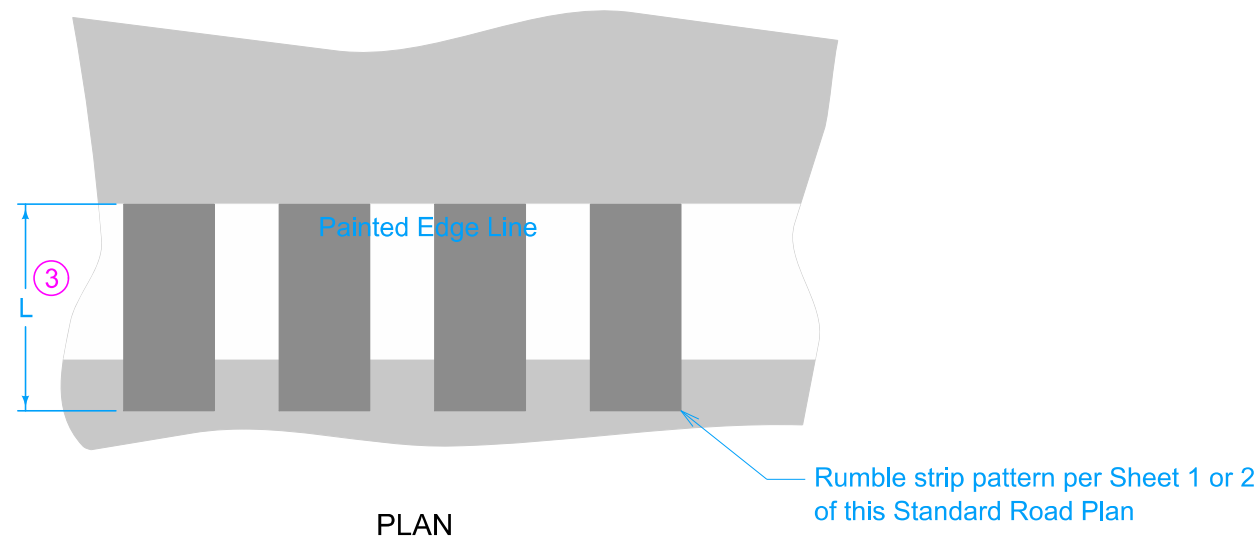
Location	Depth (inches) ^③
A	1/8
B	7/32
C	11/32
D	1/2
E	9/16

- ① Place continuous Diamond Ground Rumble Strips (no 12 foot gaps) on all median side shoulders and on all interstate shoulders.
- ③ Depth tolerance is $\pm 1/16$.



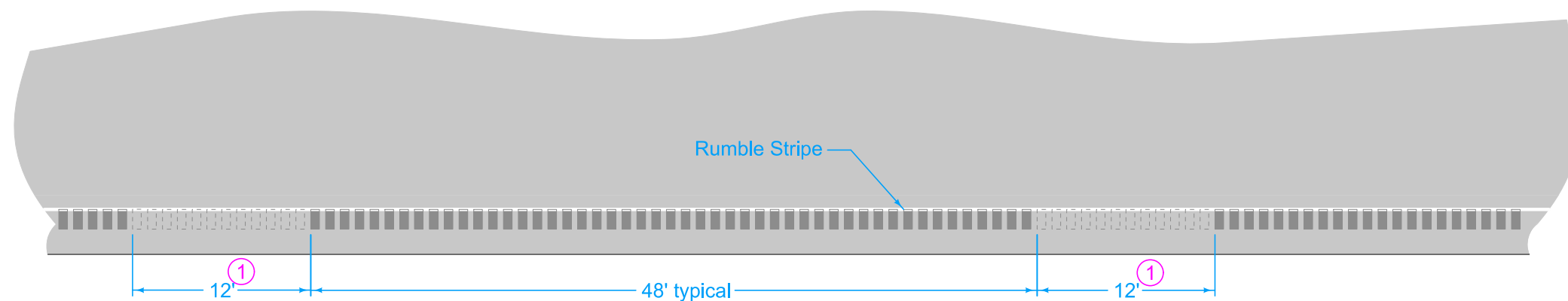
GAP DETAILS

IOWA DOT	REVISION	
	9	10-20-26
	PV-12	
STANDARD ROAD PLAN	SHEET 2 of 5	
REVISIONS: Changed name, added pages 2 and 3, added bid items		
<i>Shawn Miller</i> APPROVED BY DESIGN METHODS ENGINEER		
SHOULDER RUMBLE STRIPS		



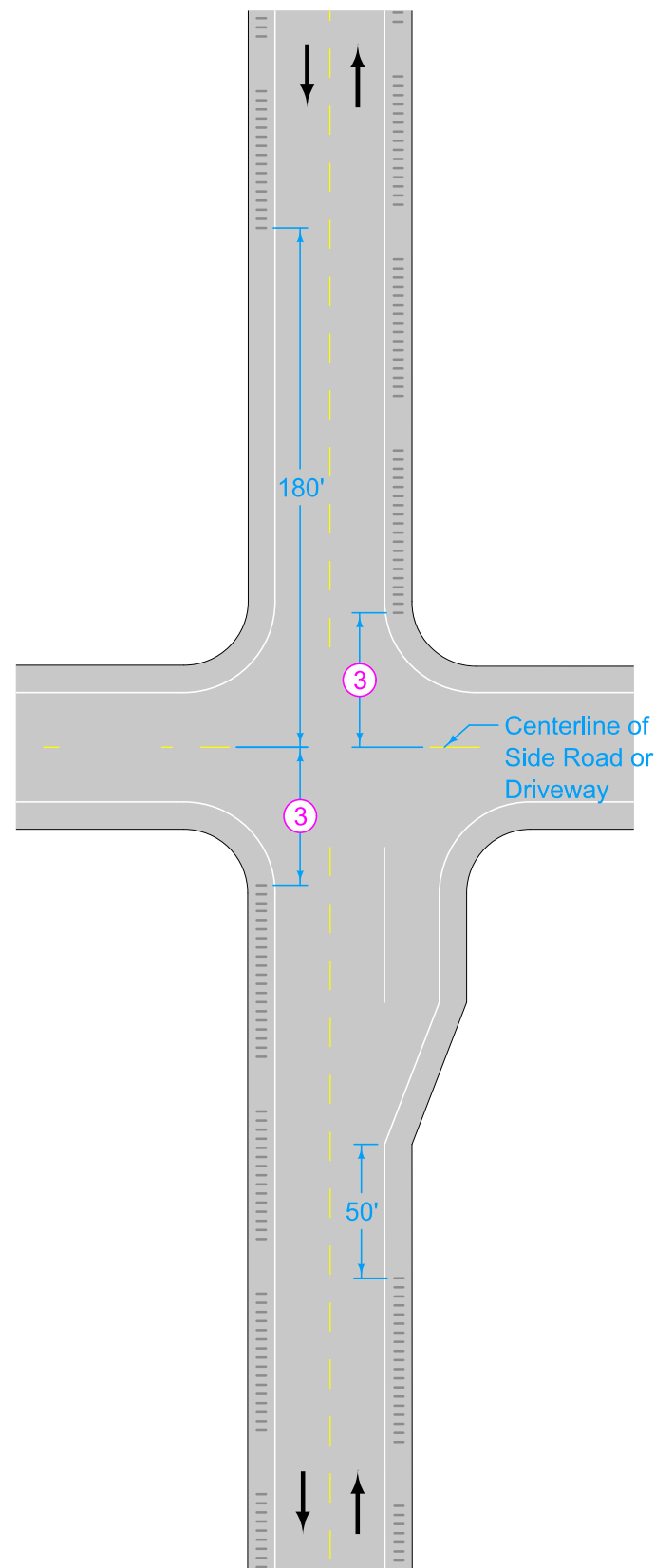
- ① Place continuous Conventional Rumble Strips (no 12 foot gaps) on all median side shoulders and on all interstate shoulders.
- ② Gap rumble strips at transverse joints. Centering the gap about the joint is desirable. Maintain a minimum of 6 inches between rumble and transverse joint.
- ③ Six inch minimum width.
If L is greater than six inches additional width is to be placed to the outside of the edge line marking.
If the edge line marking is less than six inches wide center it on rumble strip.

RUMBLE STRIPE

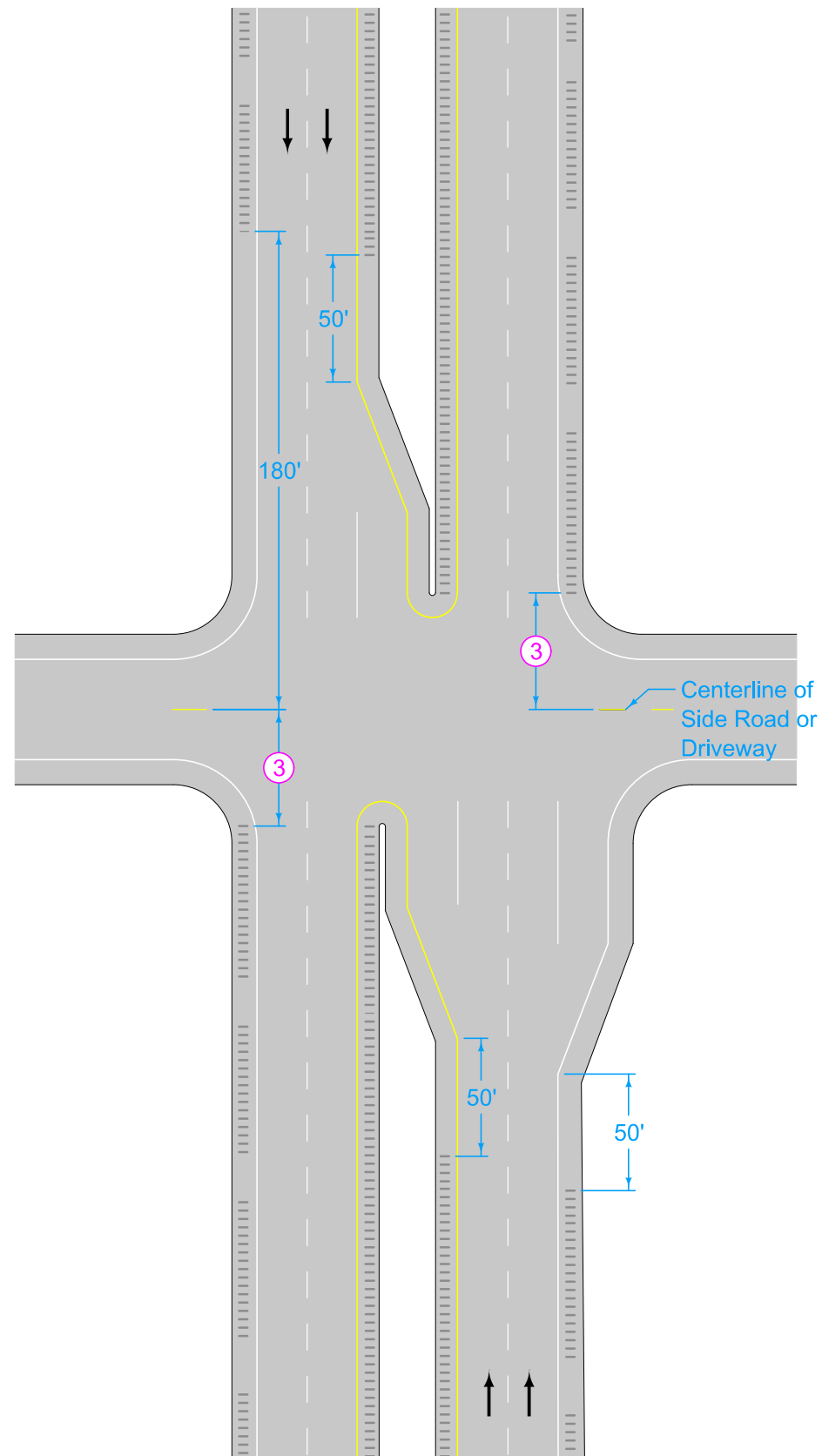


GAP DETAILS

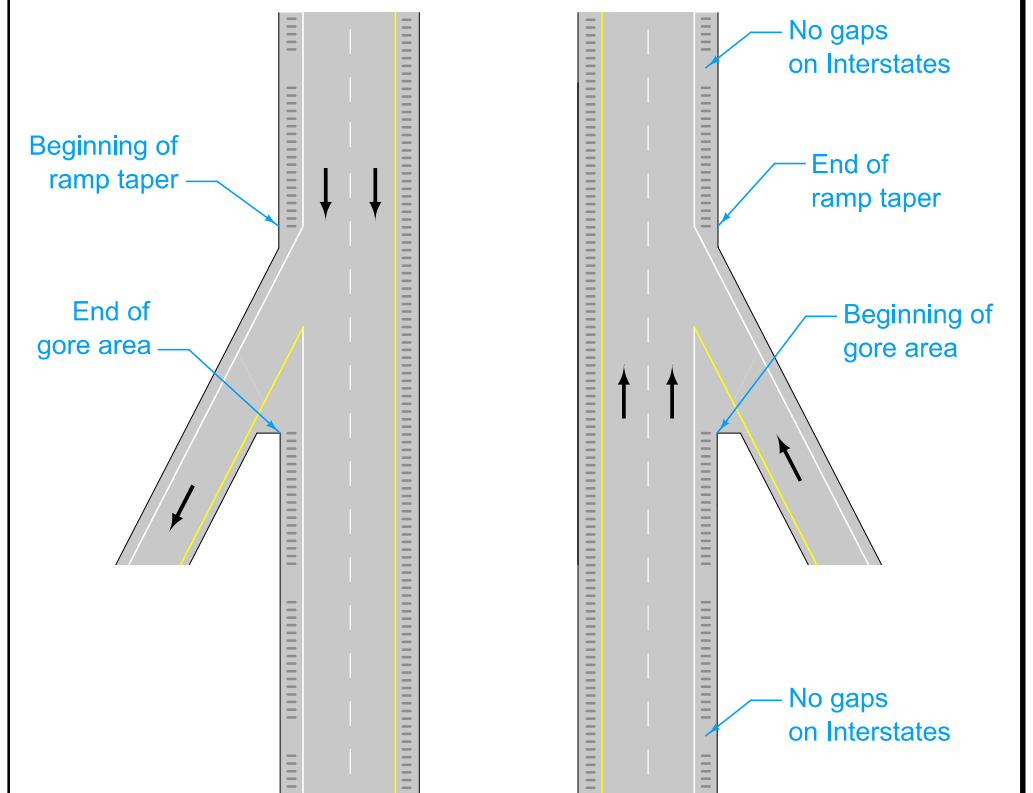
 IOWA DOT	REVISION	
	9	10-20-26
	PV-12	
STANDARD ROAD PLAN		SHEET 3 of 5
REVISIONS: Changed name, added pages 2 and 3, added bid items		
		
APPROVED BY DESIGN METHODS ENGINEER		
SHOULDER RUMBLE STRIPS		



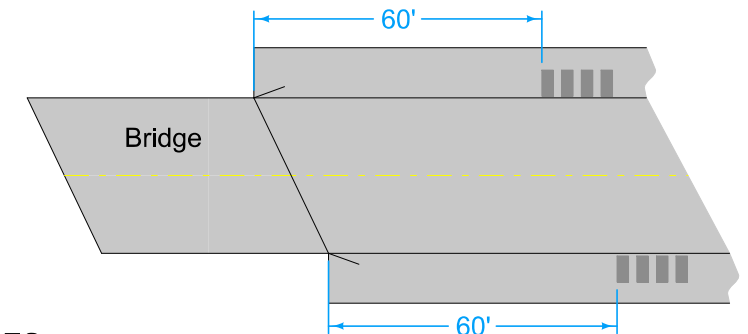
UNDIVIDED
HIGHWAYS



DIVIDED
HIGHWAYS



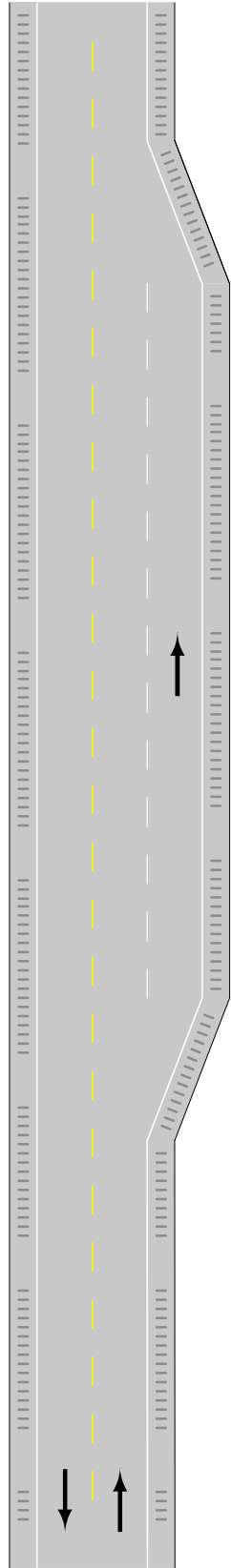
RAMP AND LOOP TERMINALS



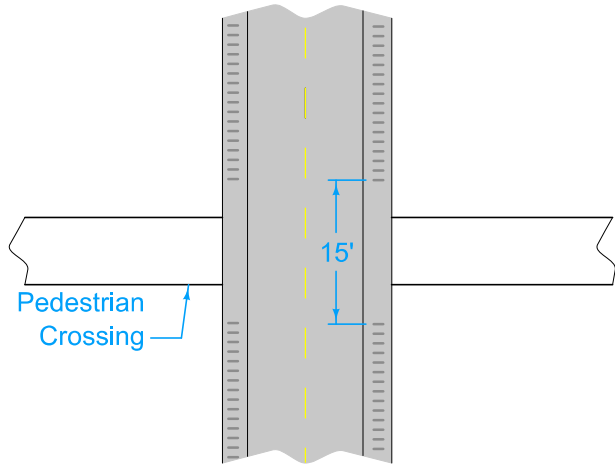
BRIDGES

- ① Place continuous Rumble Strips (no 12 foot gaps) on all median side shoulders and on all interstate shoulders.
- ③ Begin rumbles 100 feet beyond paved side roads or 50 feet for driveways or granular side roads.

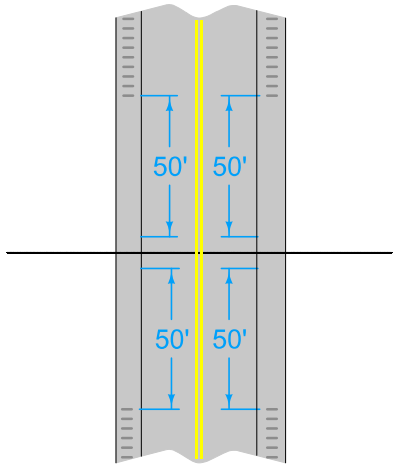
IOWA DOT STANDARD ROAD PLAN	REVISION	
	9	10-20-26
		PV-12
REVISIONS: Changed name, added pages 2 and 3, added bid items		SHEET 4 of 5
 APPROVED BY DESIGN METHODS ENGINEER		
SHOULDER RUMBLE STRIPS		



PASSING LANE



PEDESTRIAN
CROSSING



RAILROAD
CROSSING

 IOWA DOT	REVISION	
	9	10-20-26
	PV-12	
STANDARD ROAD PLAN		
SHEET 5 of 5		
REVISIONS:	Changed name, added pages 2 and 3, added bid items	
		
APPROVED BY DESIGN METHODS ENGINEER		
SHOULDER RUMBLE STRIPS		