

① Insert shaping may be modified for insert widths less than 36 inches. For an 18 inch insert, reduce dimensions indicated by 1/4 inch.

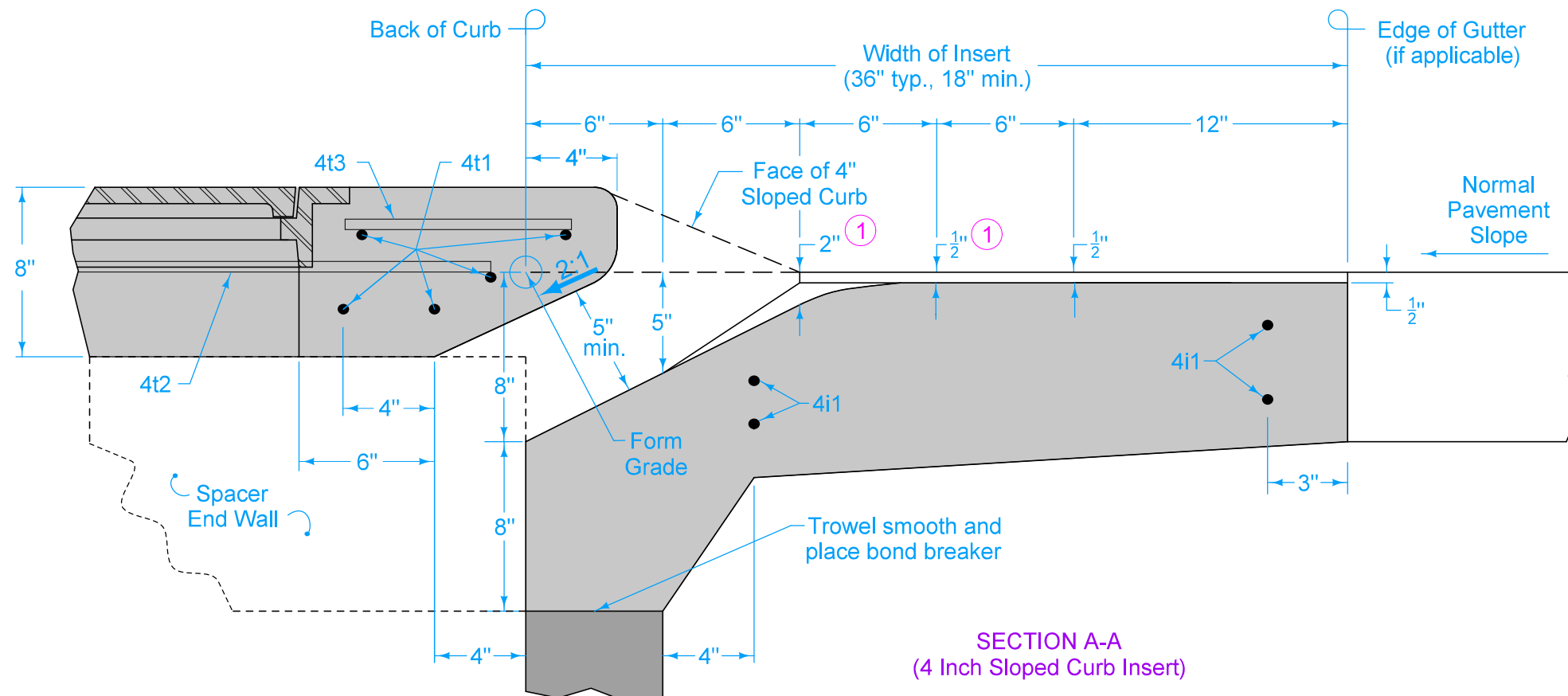
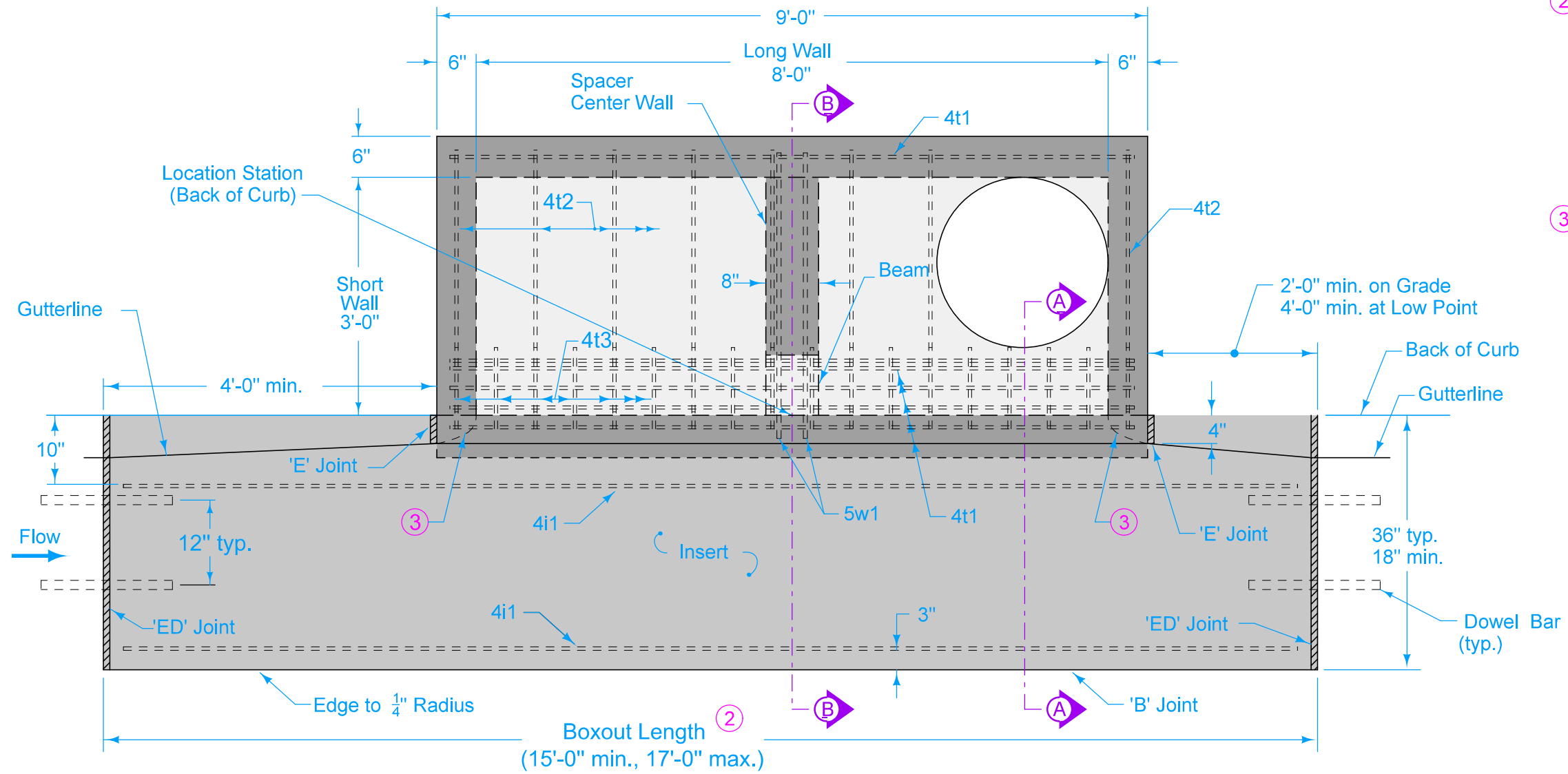


FIGURE 6010.509 SHEET 1 OF 3

SUDAS	IOWA DOT	REVISION	
		6	04-21-20
FIGURE 6010.509	STANDARD ROAD PLAN	SW-509	
		SHEET 1 of 3	
REVISIONS: Added Class 1 Bedding Material and changed maximum box out length to 17'.			
<i>Paul D. Wiegand</i> SUDAS DIRECTOR		<i>Stuart Miller</i> DESIGN METHODS ENGINEER	
DOUBLE OPEN-THROAT CURB INTAKE, SMALL BOX			



PLAN

- ② Transverse joint spacing on new concrete pavement is controlled by the intake boxout. Adjust adjacent joint spacing as required to accommodate boxouts.
- For retrofit intakes, match existing pavement joints. Stop any transverse pavement joints that do not conform to the minimum spacing requirements at the edge of the insert area.
- ③ Rounded shaping at inlet.

REINFORCING BAR LIST						
Mark	Size	Location	Shape	Count	Length	Spacing
4b1	4	Base	—	9	3'-6"	12"
4b2	4	Base	—	5	8'-6"	10"
4i1	4	Insert	—	4	Boxout Length minus 8"	See Insert
4t1	4	Top	—	6	8'-6"	See Plan
4t2	4	Top	—	8	3'-6"	12"
4t3	4	Top	—	18	10"	6"
4w1	4	Walls	—	22	Wall Height minus 4"	13"
4w2	4	Long Walls	—	Varies	4'-8"	12"
4w3	4	Short Walls	—	Varies	3'-8"	12"
5w1	5	Beam	┌	2	7'-3"	4"

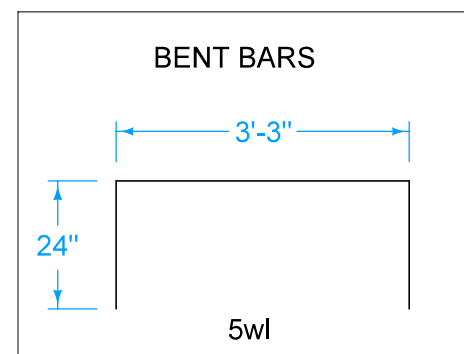
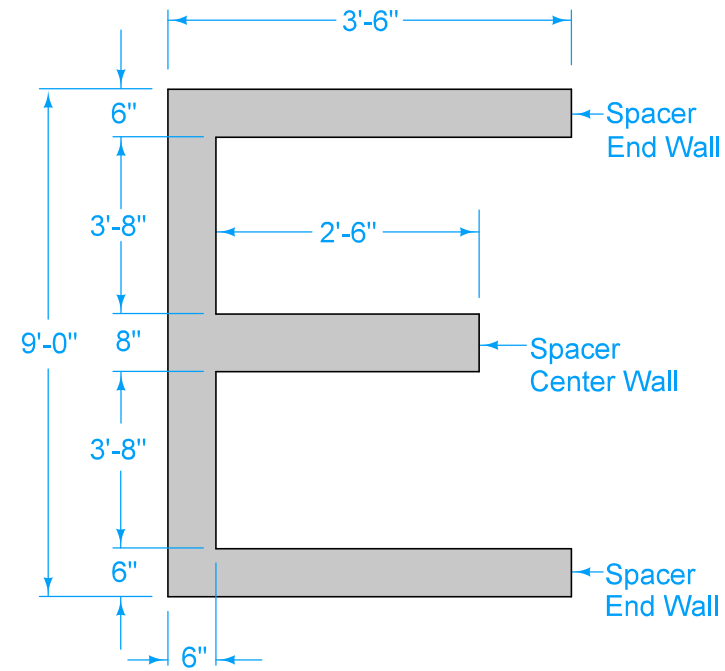
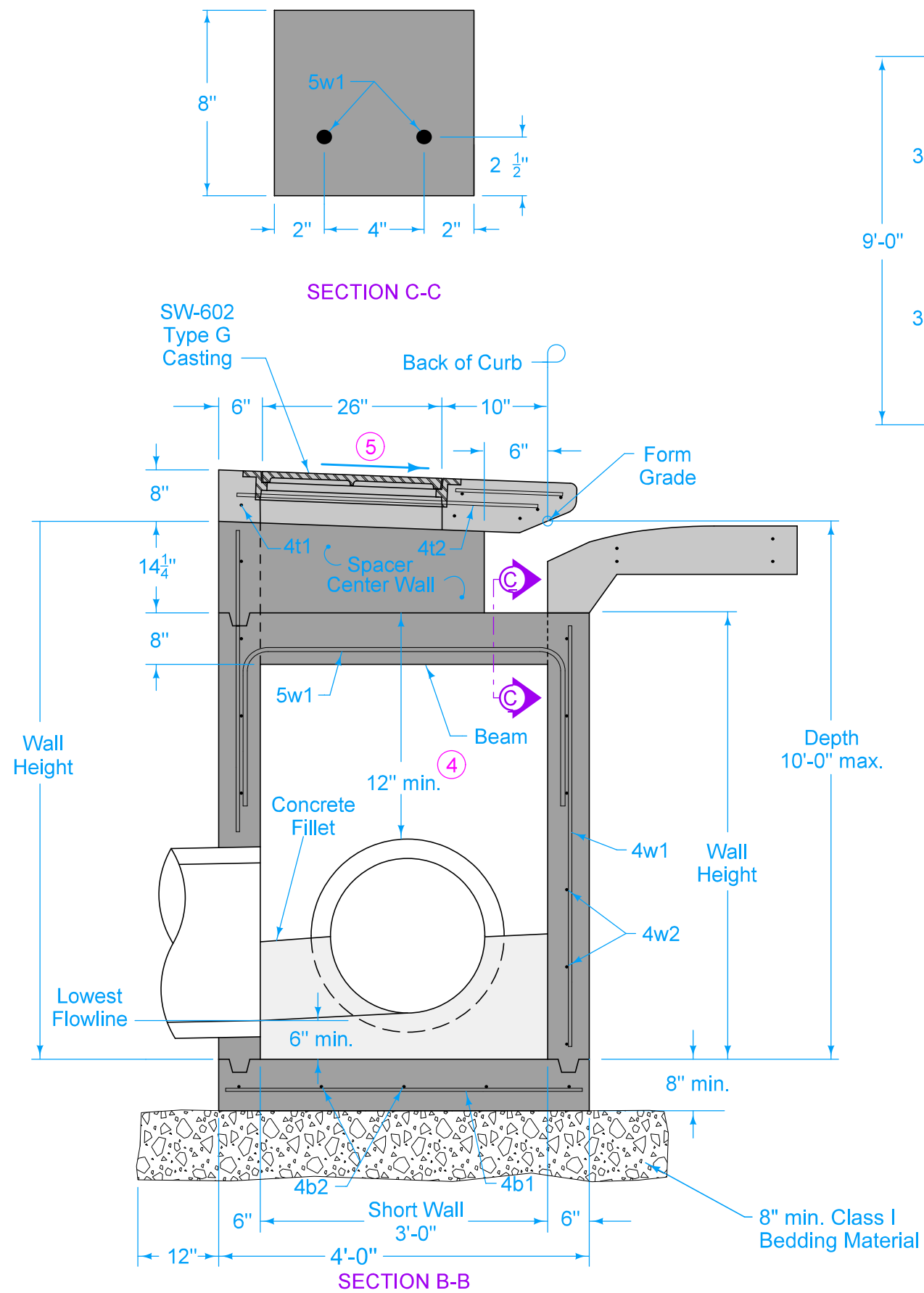


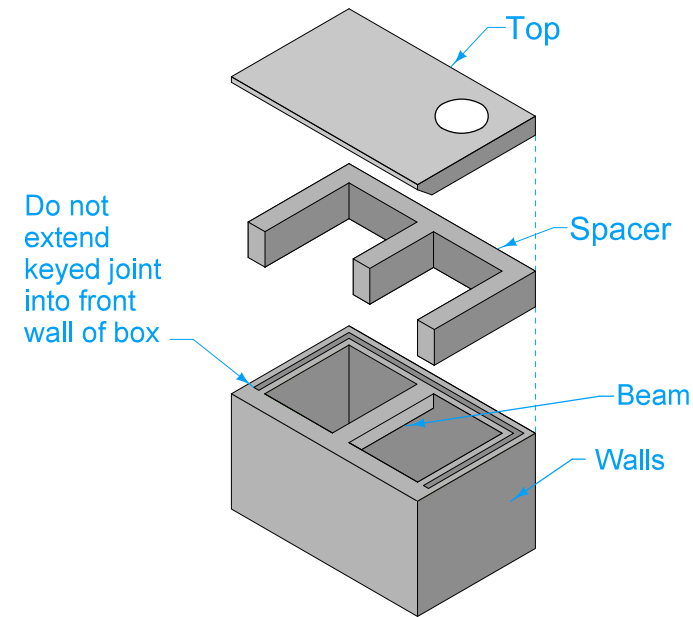
FIGURE 6010.509 SHEET 2 OF 3

		REVISION	
		6	04-21-20
FIGURE 6010.509	STANDARD ROAD PLAN	SW-509	
SHEET 2 of 3			
REVISIONS: Added Class 1 Bedding Material and changed maximum box out length to 17'.			
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- ④ 12 inch minimum wall height above all pipes.
- ⑤ Slope of 1.5% or as specified in the contract documents.



PLAN (SPACER)



ISOMETRIC
(Refer to SECTION B-B for alignment of Top with Spacer)

MAXIMUM PIPE DIAMETERS		
Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	24"	30"
Long Wall	60"	66"

FIGURE 6010.509 SHEET 3 OF 3

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FIGURE 6010.509	STANDARD ROAD PLAN
SW-509	
SHEET 3 of 3	

REVISIONS: Added Class I Bedding Material and changed maximum box out length to 17'.
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DOUBLE OPEN-THROAT CURB INTAKE, SMALL BOX