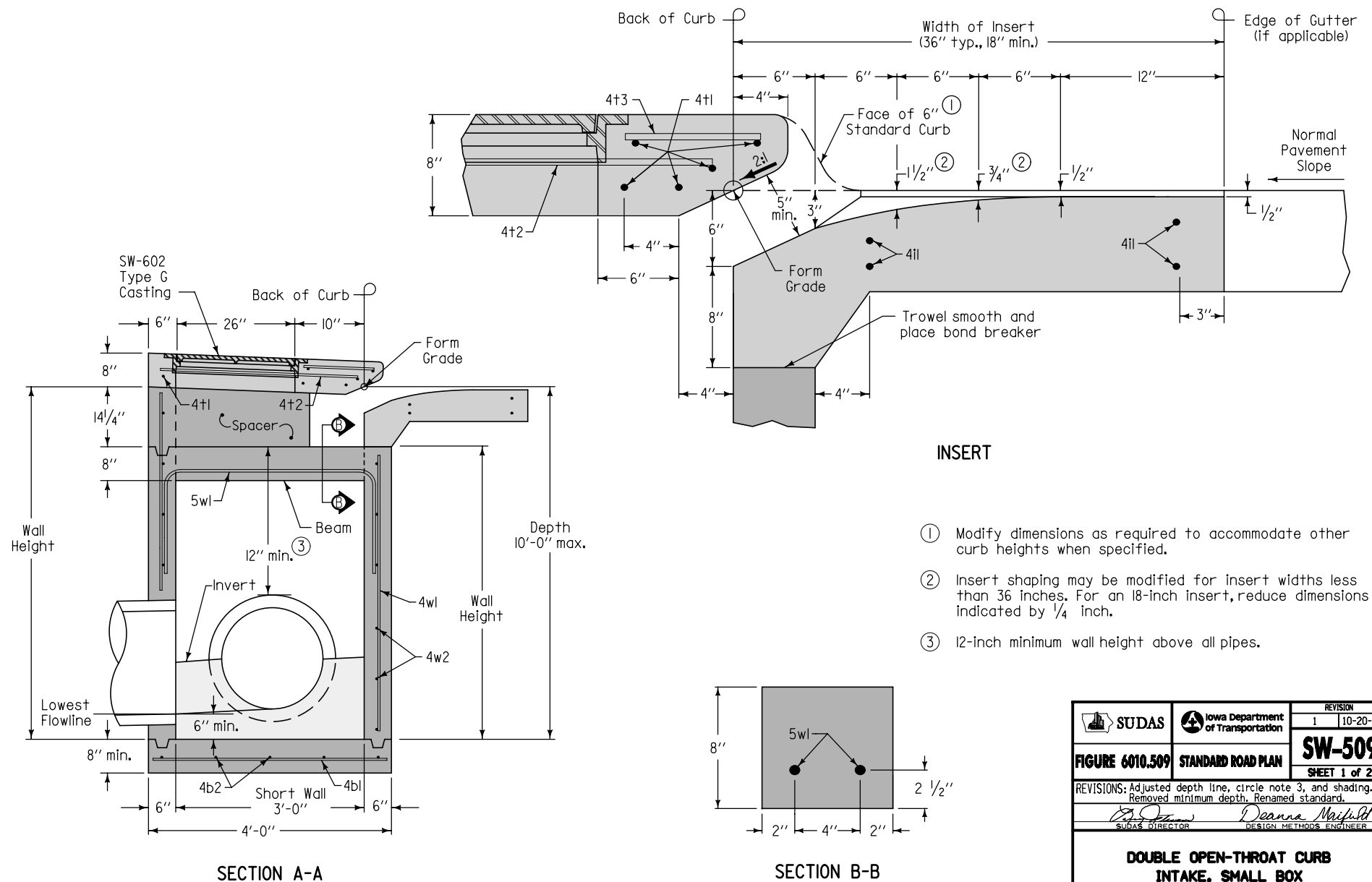
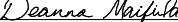
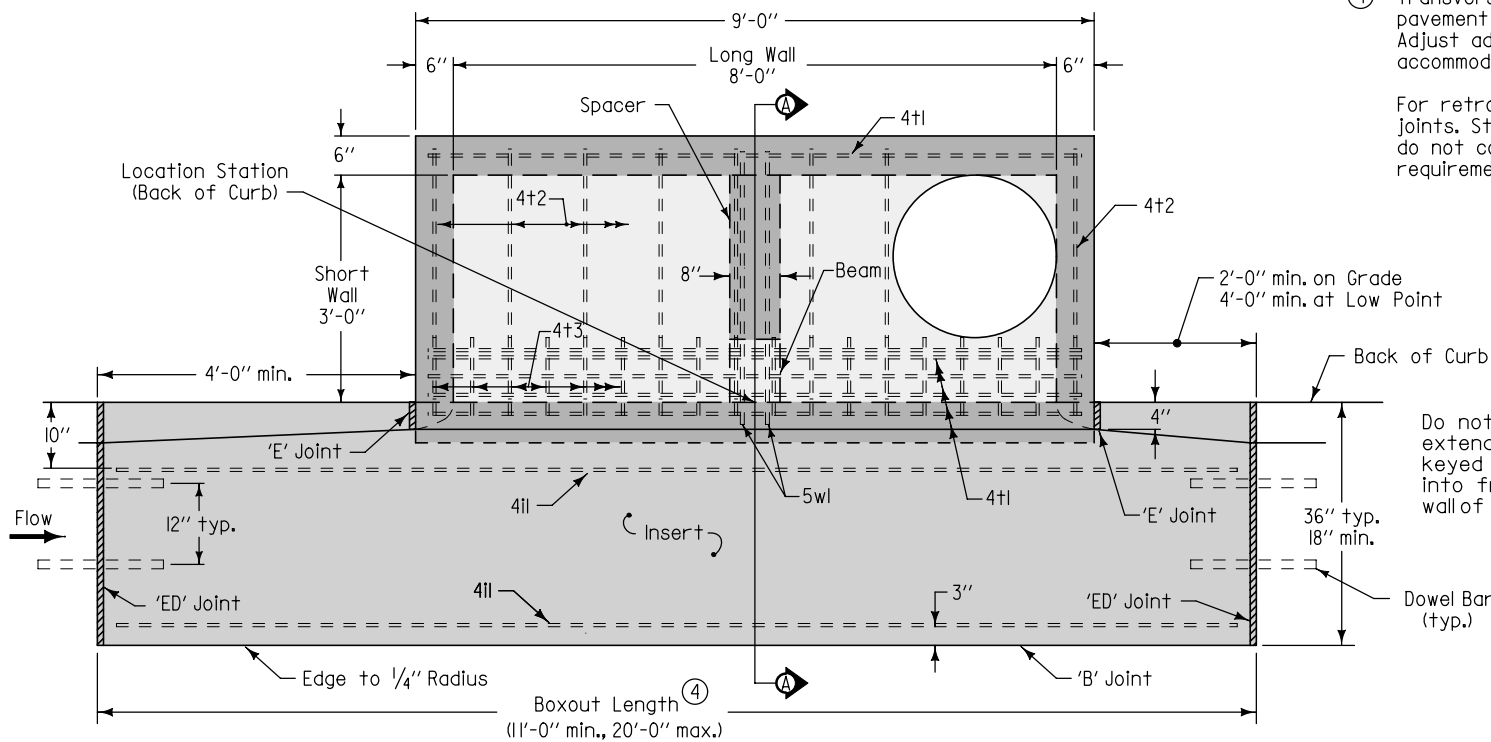


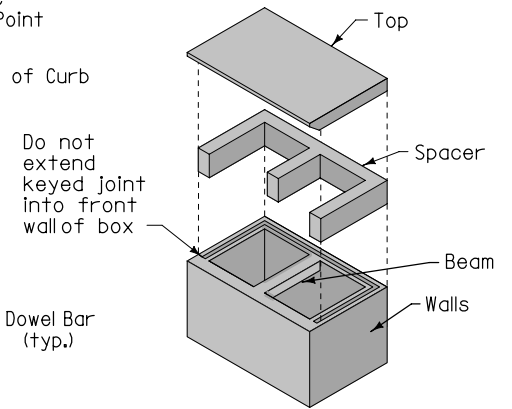


 SUDAS	 Iowa Department of Transportation	REVISION	
		1	10-20-09
		FIGURE 6010.509	
		STANDARD ROAD PLAN	
		SW-509	
		SHEET 1 of 2	
REVISIONS: Adjusted depth line, circle note 3, and shading. Removed minimum depth. Renamed standard.			
 SUDAS DIRECTOR		 DESIGN METHODS ENGINEER	
DOUBLE OPEN-THROAT CURB INTAKE, SMALL BOX			



PLAN

- ④ 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.

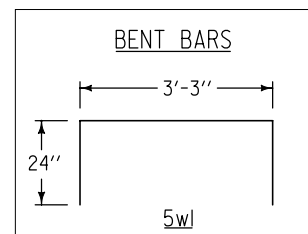


ISOMETRIC

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
4i2	4	Top	—	6	8'-6"	See Plan
4i3	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"

BENT BARS



MAXIMUM PIPE DIAMETERS

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

SUDAS Iowa Department of Transportation	REVISION	1	10-20-09
	FIGURE 6010.509 STANDARD ROAD PLAN		
	SW-509 SHEET 2 of 2		
	REVISIONS: Adjusted depth line, circle note 3, and shading. Removed minimum depth. Renamed standard.		
SUDAS DIRECTOR		Deanna Marjuff DESIGN METHODS ENGINEER	
DOUBLE OPEN-THROAT CURB INTAKE, SMALL BOX			