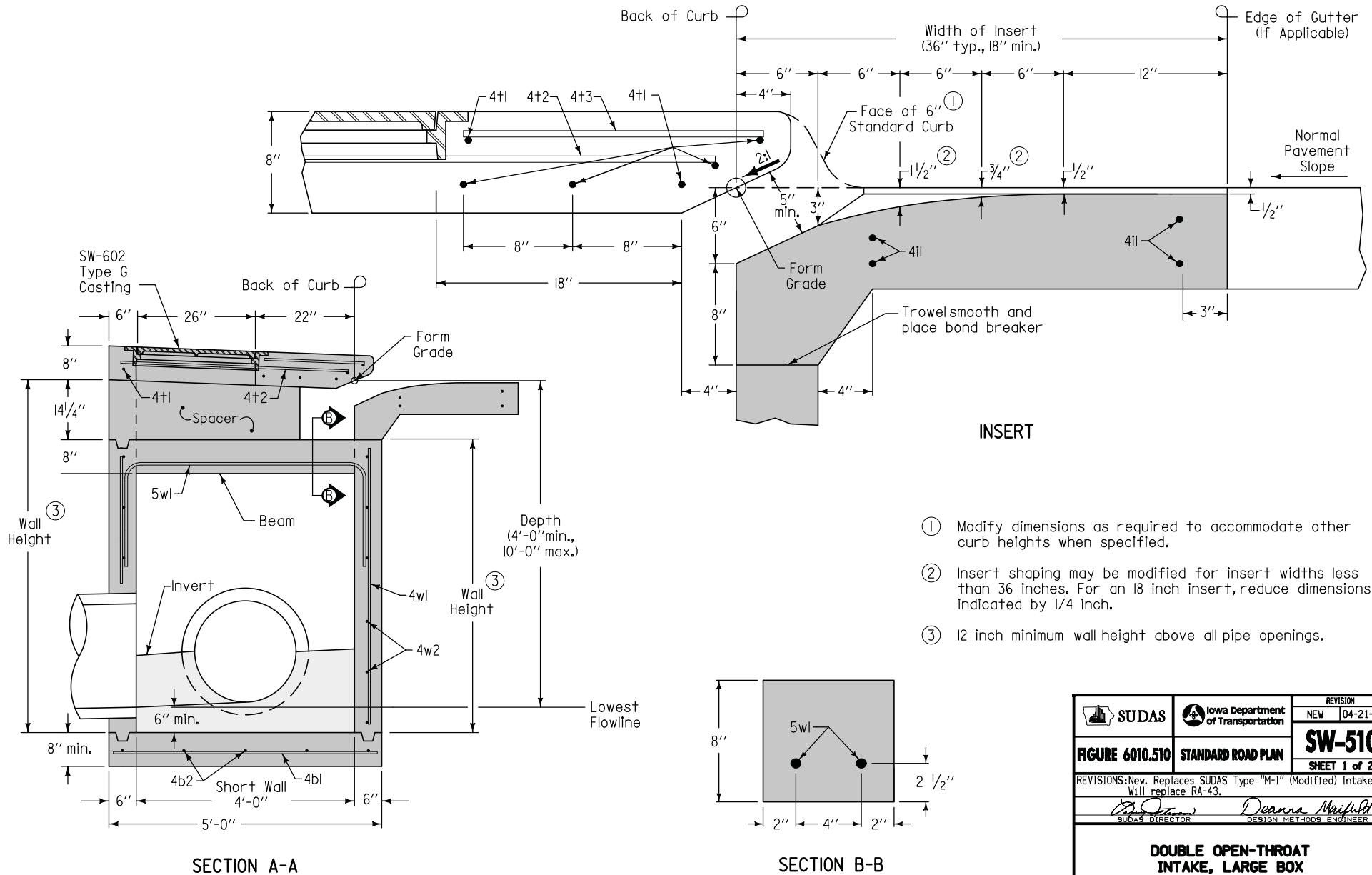
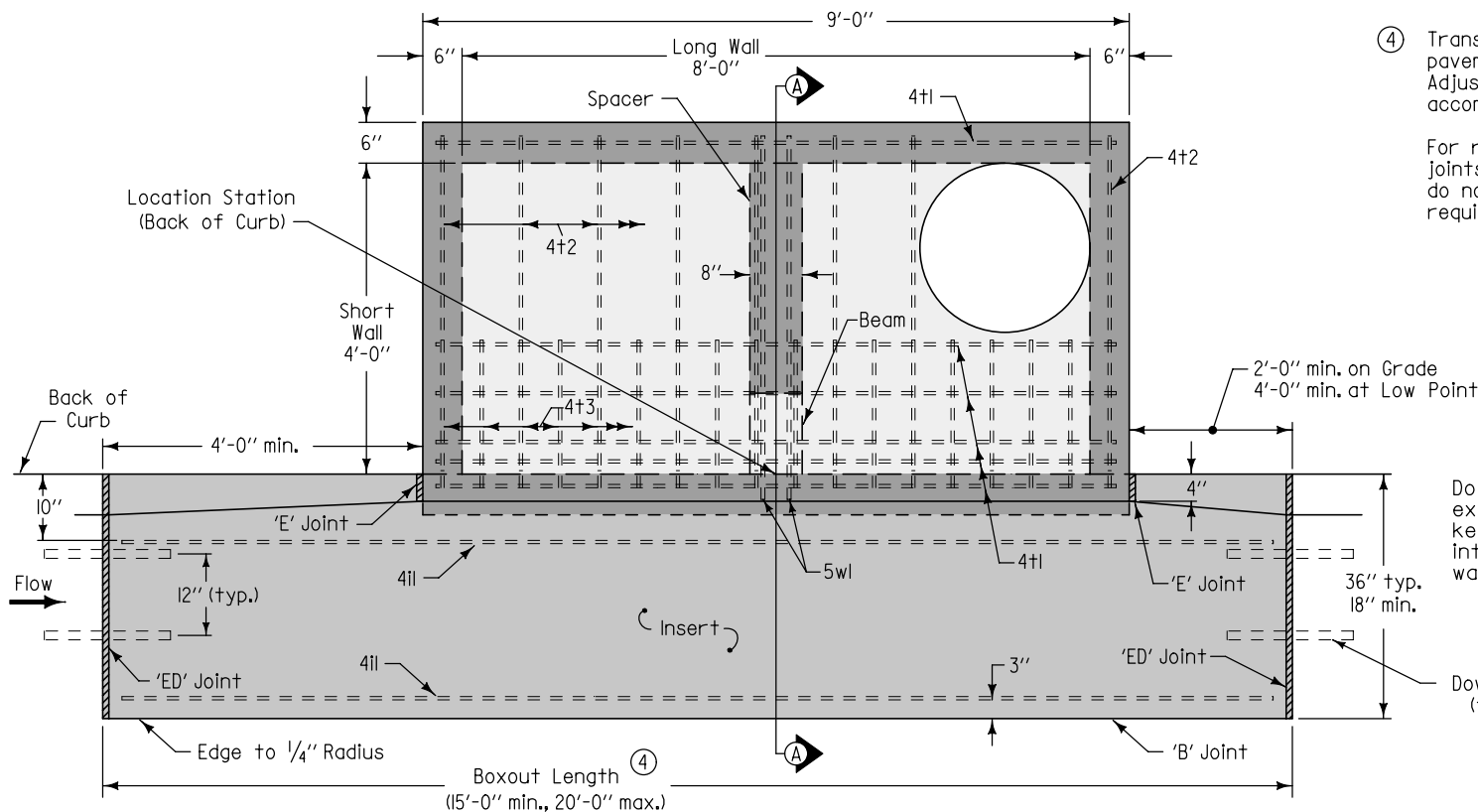


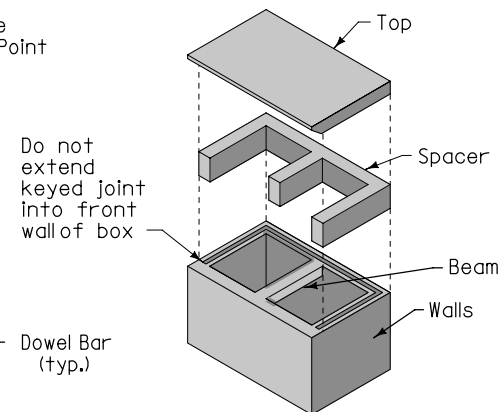


 SUDAS	 Iowa Department of Transportation	REVISION	
		NEW	04-21-09
		FIGURE 6010.510	
		STANDARD ROAD PLAN	
		SW-510	
		SHEET 1 of 2	
		REVISIONS: New. Replaces SUDAS Type "M-1" (Modified) Intake. Will replace RA-43.	
 SUDAS DIRECTOR			
 DESIGN METHODS ENGINEER			
DOUBLE OPEN-THROAT INTAKE, LARGE BOX			



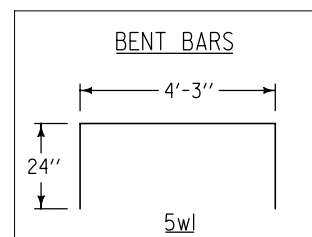
- ④ Transverse joint spacing on new concrete pavement is controlled by the intake boxout. Adjust adjacent joint spacing as required to accommodate boxouts.

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

PLAN



MAXIMUM PIPE DIAMETERS		
Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	30"	36"
Long Wall	60"	66"

REINFORCING BAR LIST						
Mark	Size	Location	Shape	Count	Length	Spacing
4b1	4	Base	—	9	4'-6"	12"
4b2	4	Base	—	6	8'-6"	11"
4l1	4	Insert	—	4	Boxout Length minus 8"	See Insert
4t1	4	Top	—	7	8'-6"	See Plan
4t2	4	Top	—	8	4'-4"	12"
4t3	4	Top	—	18	1'-10"	6"
4w1	4	Walls	—	24	Wall Height minus 4"	13"
4w2	4	Long Walls	—	Varies	4'-8"	12"
4w3	4	Short Walls	—	Varies	8'-8"	12"
5w1	5	Beam	U	2	8'-3"	4"

SUDAS FIGURE 6010.510 REVISIONS: New. Replaces SUDAS Type "M-1" (Modified) Intake. Will replace RA-43. SUDAS DIRECTOR DESIGN METHODS ENGINEER	Iowa Department of Transportation STANDARD ROAD PLAN	REVISION NEW 04-21-09 SW-510 SHEET 2 of 2
	DOUBLE OPEN-THROAT INTAKE, LARGE BOX	