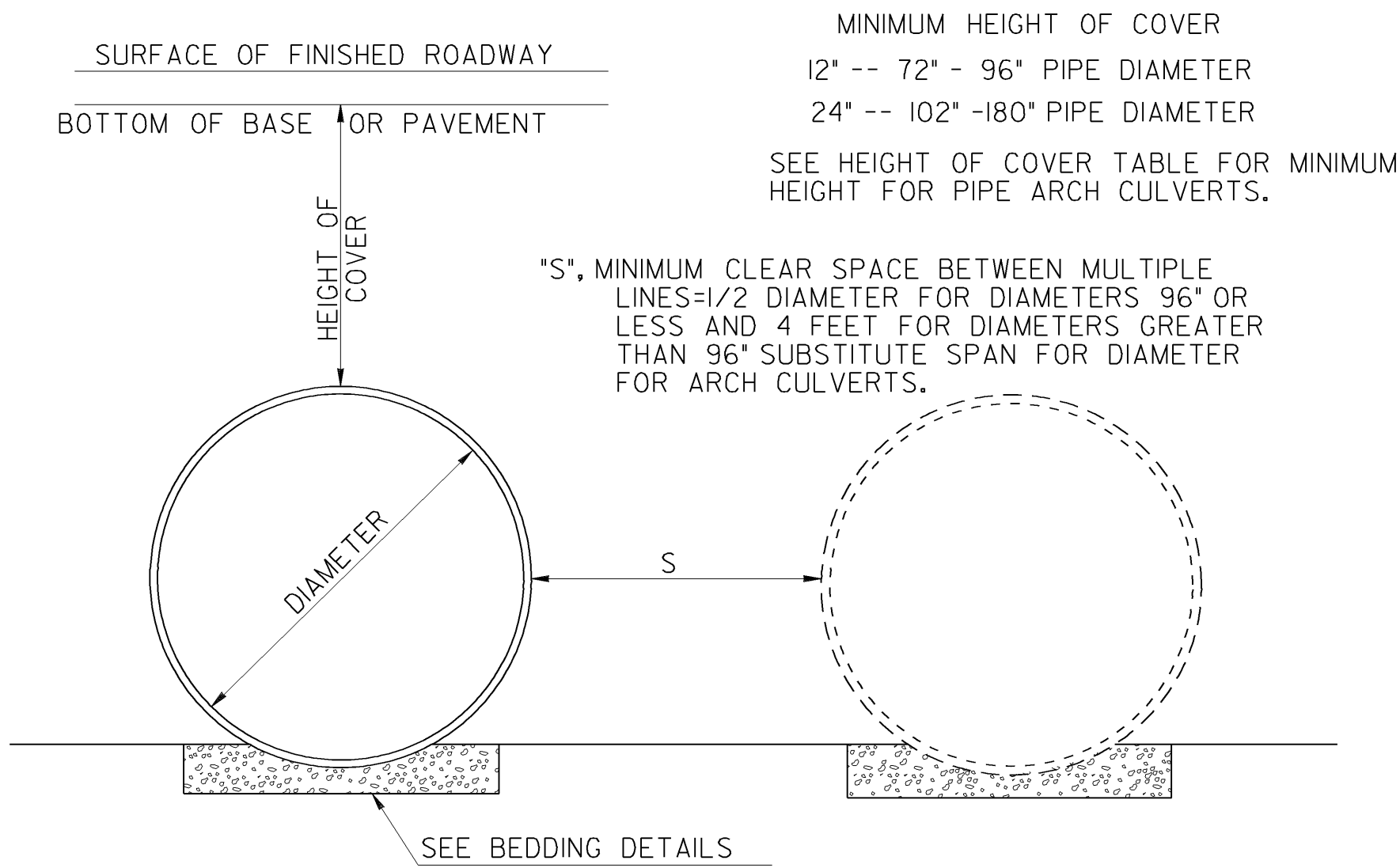
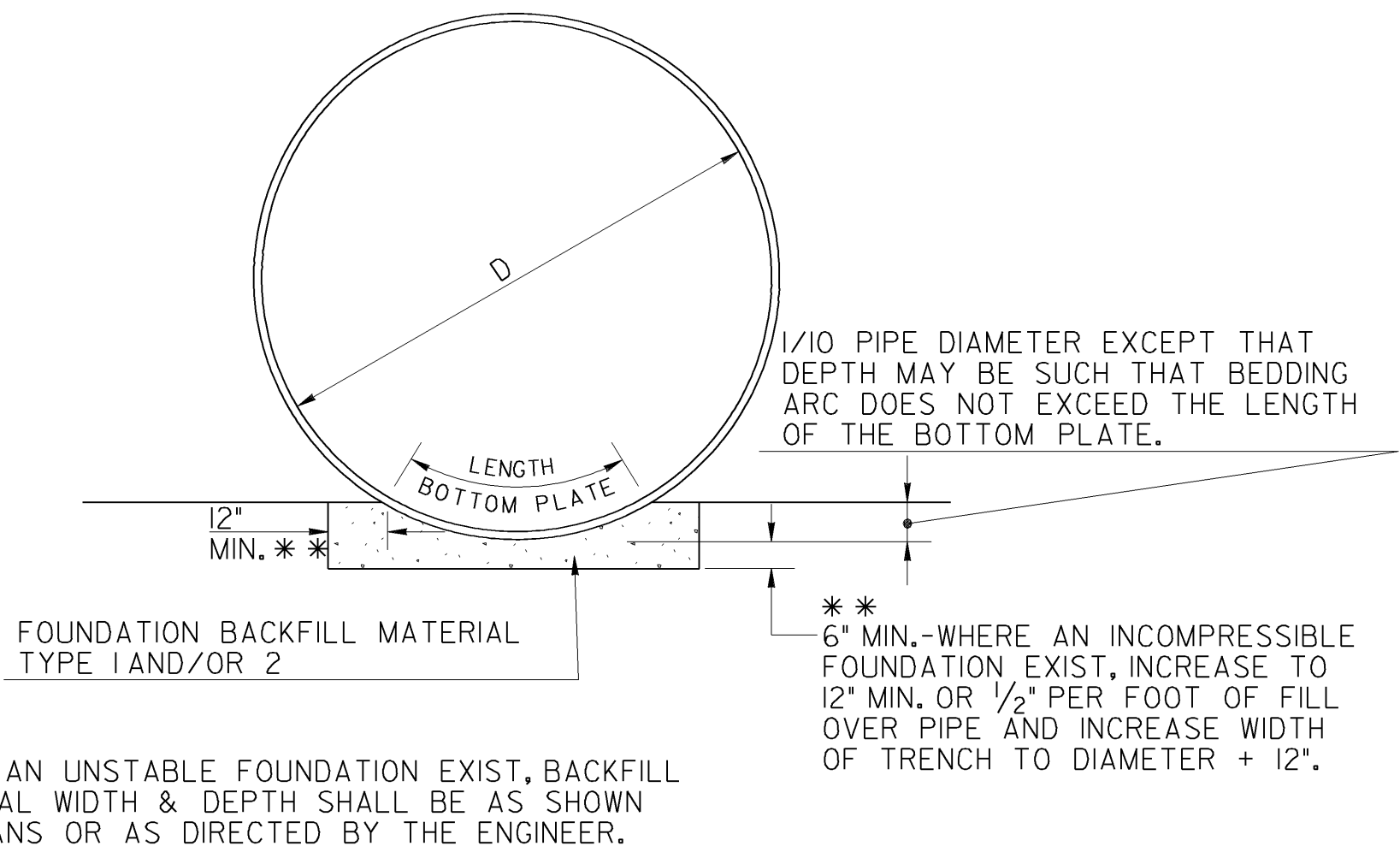


STRUCTURAL PLATE CORRUGATED STEEL AND ALUMINUM CIRCULAR PIPE MINIMUM THICKNESS REQUIRED (H-20 LOADING)																			
DIAMETER INCH	STEEL 6"x2" CORRUGAT.	ALUMINUM 9"x 2-1/2" CORRUGAT.	HEIGHT OF COVER FEET																
			1-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-70	70-80	80-90	90-100	
72	•		.109	.109	.109	.109	.109	.109	.138 .109 *	.168 .138 *	.218 .138 *	.249 .138 *	.280 .168 *						
		•	.09	.09	.09	.10	.125	.175 *	.175 *	.175 *	.20 *	.20 *	.25 *						
78	•		.109	.109	.109	.109	.109	.109	.168 .138 *	.188 .138 *	.249 .138 *	.280 .168 *	.168 *	.168 *	.188 *	.218 *	.280 *		
		•	.09	.09	.09	.10	.125	.20 .15 *	.175 *	.175 *	.20 *	.225 *	.25 *						
84	•		.109	.109	.109	.125	.109	.138 .109 *	.218 .138 *	.249 .138 *	.168 *	.168 *	.168 *	.188 *	.218 *	.249 *			
		•	.09	.09	.10	.125	.15 .125 *	.175 *	.175 *	.20 *	.225 *	.25 *	.168 *	.168 *	.188 *	.218 *			
90	•		.109	.109	.109	.109	.109	.168 .138 *	.218 .138 *	.249 .138 *	.168 *	.168 *	.168 *	.188 *	.218 *	.280 *			
		•	.09	.09	.10	.125	.20 .15 *	.175 *	.175 *	.225 *	.25 *								
96	•		.109	.109	.109	.109	.138 .109 *	.218 .138 *	.280 .138 *	.168 *	.168 *	.168 *	.188 *	.218 *	.280 *				
		•	.09	.09	.10	.125	.225 .15 *	.175 *	.20 *	.225 *	.25 *								
102	•		.109	.109	.109	.109	.168 .138 *	.249 .138 *	.138 *	.168 *	.168 *	.188 *	.188 *	.249 *					
		•	.10	.10	.125	.15	.175 *	.175 *	.20 *	.25 *									
108	•		.109	.109	.109	.109	.188 .138 *	.280 .138 *	.138 *	.168 *	.168 *	.188 *	.249 *	.280 *					
		•	.10	.10	.125	.15	.175 *	.175 *	.225 *	.25 *									
114	•		.109	.109	.109	.109	.218 .138 *	.138 *	.168 *	.168 *	.188 *	.218 *	.280 *						
		•	.10	.10	.125	.175 .15 *	.175 *	.20 *	.25 *										
120	•		.109	.109	.109	.109	.249 .138 *	.138 *	.168 *	.168 *	.188 *	.249 *							
		•	.10	.10	.125	.175 .15 *	.175 *	.20 *	.25 *										
126	•		.109	.109	.109	.138	.280 .138 *	.138 *	.168 *	.188 *	.218 *	.280 *							
		•	.125	.125	.125	.20 .15 *	.175 *	.225 *	.25 *										
132	•		.109	.109	.109	.138	.138 *	.168 *	.168 *	.188 *	.218 *								
		•	.125	.125	.15	.20 .15 *	.20 *	.225 *											
138	•		.109	.109	.109	.168 .138 *	.168 *	.168 *	.188 *	.188 *	.280 *								
		•	.125	.125	.15	.225 .175 *	.20 *	.25 *											
144	•		.109	.109	.109	.168 .138 *	.138 *	.168 *	.188 *	.218 *	.280 *								
		•	.125	.125	.15	.225 .175 *	.20 *	.25 *											
150	•		.109	.109	.109	.168 .138 *	.168 *	.168 *	.188 *	.218 *									
		•	.15	.15	.175	.175 *	.225 *												
156	•		.109	.109	.109	.188 .138 *	.168 *	.168 *	.188 *	.218 *									
		•	.15	.15	.175	.175 *	.225 *												
162	•		.109	.109	.109	.249 .138 *	.168 *	.168 *	.218 *	.249 *									
		•	.15	.15	.175	.175 *	.25 *												
168	•		.109	.109	.138	.249 .138 *	.168 *	.188 *	.218 *	.249 *									
		•	.15	.15	.175	.175 *	.25 *												
174	•		.138	.138	.138	.280 .138 *	.168 *	.188 *	.218 *	.280 *									
		•	.175	.175	.20	.20 *													
180	•		.138	.138	.138	.280 .138 *	.168 *	.188 *	.218 *	.280 *									
		•	.175	.175	.20	.20 *													

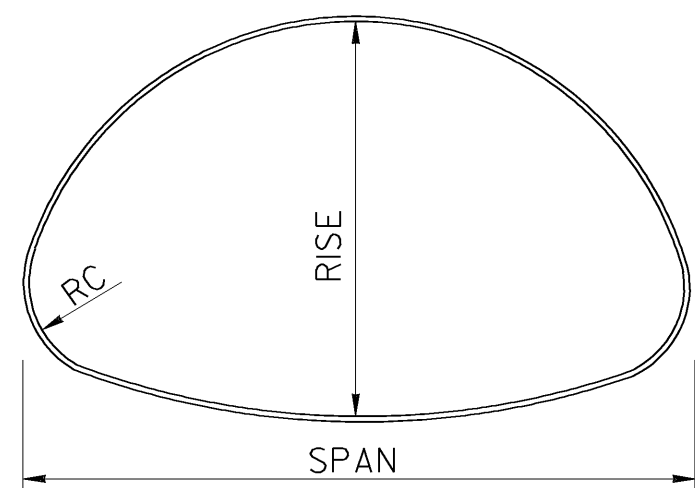
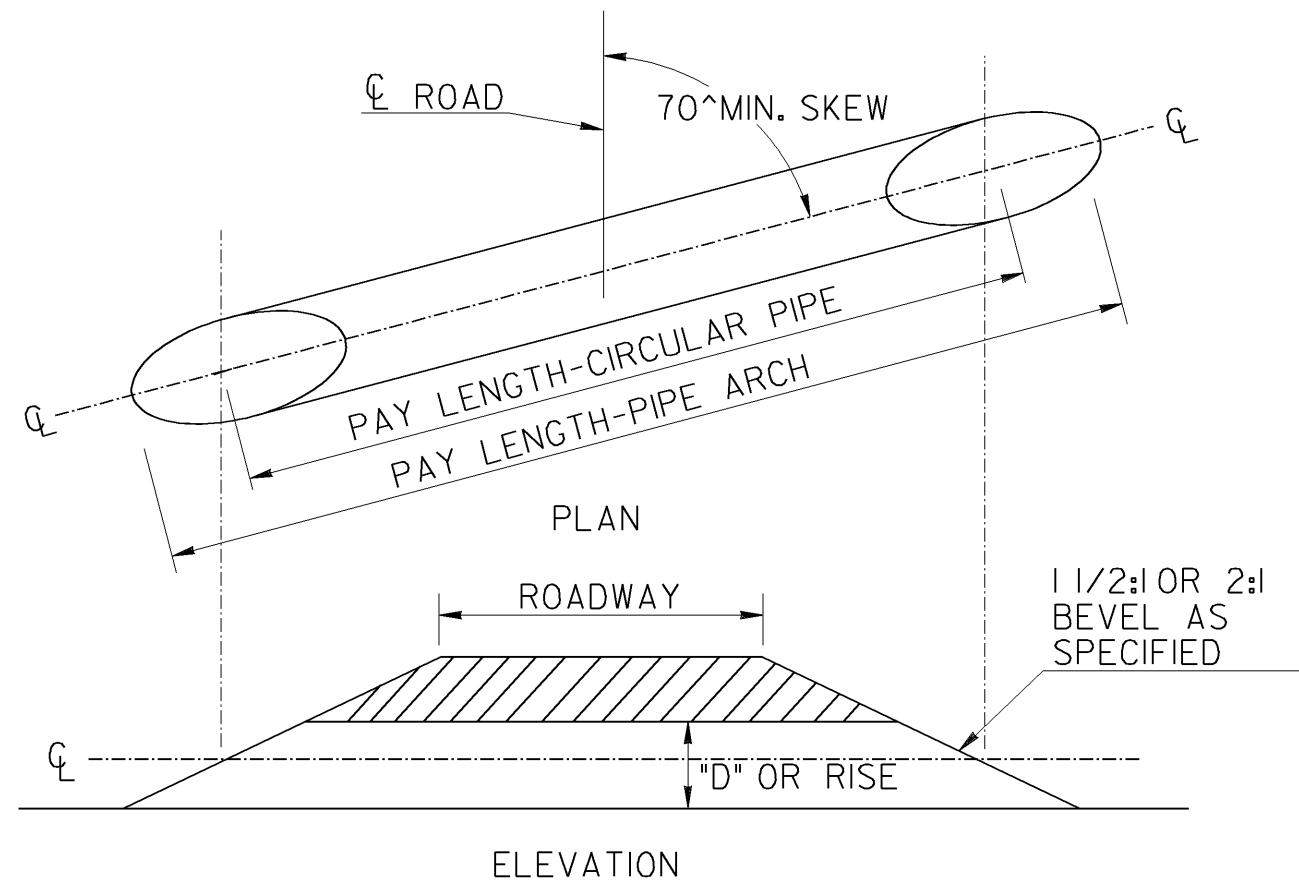
NOTE:
* THICKNESSES SHOWN IN ABOVE TABLE ARE FOR STRUCTURAL PLATE PIPE, ASSEMBLED WITH 4 BOLTS PER FOOT LONGITUDINAL SEAM.
DENOTES CIRCULAR CROSS SECTION FACTORY ELONGATED ON VERTICAL AXIS 5% +/- NOMINAL DIAMETER.



FOR PIPE ARCH CULVERTS SUBSTITUTE SPAN AND RISE FOR DIAMETER IN HORIZONTAL & VERTICAL DIMENSIONS RESPECTIVELY.



BEDDING DETAIL



STRUCTURAL PLATE CORRUGATED STEEL PIPE ARCHES (6"x2" CORRUGATIONS)						
SPAN FT.-IN.	RISE FT.-IN.	MIN. THICKNESS IN.	HEIGHT MIN IN.	COVER MAX.FT	X-SECT AREA SQ.FT.	DIA. PIPE EQUAL PERIPHERY
18 INCH CORNER RADIUS, R _c						
6-1	4-7	.109	18	15	22	66"
7-0	5-1	.109	18	15	28	75"
7-11	5-7	.109	18	12	35	84"
8-10	6-1	.109	24	11	43	93"
9-9	6-7	.109	24	10	52	102"
10-11	7-1	.109	24	9	61	111"
11-10	7-7	.109	24	7	71	120"
12-10	8-4	.109	24	6	85	132"
14-1	8-9	.109	24	5	97	141"
31 INCH CORNER RADIUS, R _c						
13-3	9-4	.109	24	13	98	138"
14-2	9-10	.109	24	12	110	147"
15-4	10-4	.138	24	11	124	156"
16-3	10-10	.138	36	11	138	165"
17-2	11-4	.138	36	10	153	174"
18-1	11-10	.168	36	9	168	183"
19-3	12-4	.168	36	9	185	192"
19-11	12-10	.168	36	8	202	201"
20-7	13-2	.168	36	7	214	207"

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	STANDARD STRUCTURAL PLATE PIPE AND PIPE ARCH CULVERTS	
			NO SCALE	RE-DRAWN OCT. 1999
	BY	DES. _____ TRA. _____ CHK. _____	(SUBMITTED) _____ (APPROVED) _____ James A. Kinnel STATE ROAD & AIRPORT DESIGN ENGR. Paul L. Roubicek CHIEF ENGINEER	NUMBER 2011B