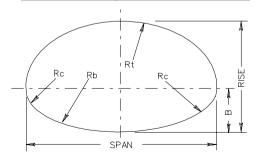
	MINIM	UM SHEET	THICKNES	S AND DESIG	n data	
PIPE ARCH DIMENSION				MINIMUM	MAXIMUM COVER HEIGHT IN FEET	
NOMINAL SIZE			Rc	SHEET THICKNESS	MAXIMUM CORNER PRESSURE	
SPAN-RISE INCHES	DIAMETER INCHES	SQ. FT.	INCHES	REQUIRED INCHES (GAUGE)	4000 LBS./SQ.FT. (SEE NOTE 4)	6000 LBS./SQ. FT. (SEE NOTE 6)
	•	:	2 2/3" x ½" C	ORRUGATIONS		
17 × 13	15	1.1	3"	0.060 (16)	11	17
21 x 15	18	1.6	3"	0.060 (16)	9	14
24 × 18	21	2.2	3"	0.060 (16)	8	12
28 x 20	24	2.8	3"	0.075 (14)	7	10
35 x 24	30	4.4	3"	0.075 (14)	5	8
42 × 29 ₩	36	6.4	31/2"	0.105 (12)	5	8
49 x 33 ₩	42	8.7	4''	0.105 (12)	5	8
57 x 38 ₩	48	11.4	5"	0.135 (10)	5	8
64 × 43 ₩	54	14.3	6''	0.135 (10)	6	9
71 x 47 ↔	60	17.6	7"	0.164 (8)	6	9
			3'' x 1'' CORRU	IGATIONS		
40 x 31 ↔	36	6.4	5"	0.060 (16)	8	12
46 x 36 <b>⊕</b>	42	8.7	6''	0.060 (16)	8	12
53 x 41 <b>⊕</b>	48	11.4	7"	0.060 (16)	8	13
60 × 46 <b>⊕</b>	54	14.3	8''	0.075 (14)	8	13
66 x 51 <del></del> <b>⊕</b>	60	17.6	9"	0.075 (14)	9	13
73 x 55	66	22.0	12''	0.105 (12)	11	16
81 x 59	72	26.0	14''	0.105 (12)	11	17
87 x 63	78	31.0	14''	0.135 (10)	10	16
95 × 67	84	35.0	16''	0.135 (10)	11	16
103 x 71	90	40.0	16"	0.164 (8)	10	15
112 × 75	96	46.0	18''	0.164 (8)	10	13
117 × 79	102	52.0	18''	0.164 (8)	10	11

♦ INDICATES PIPE ARCHES FOR WHICH DIMENSIONS FOR EITHER CORRUGATION MAY BE USED WITHIN HEIGHT OF COVER LIMITATIONS.

## NOTES:

- 1. COVER HEIGHTS INDICATED IN TABLES ARE FOR FINISHED CONSTRUCTION.
- 2 TO PROTECT PIPE DURING CONSTRUCTION, MINIMUM HEIGHT OF COVER TO BE IN ACCORDANCE WITH TABLE A PRIOR TO ALLOWING CONSTRUCTION TRAFFIC TO CROSS INSTALLATION. THE COVER SHALL EXTEND THE FULL LENGTH OF THE PIPE ARCH. THE APPROACH FILL RAMP IS TO EXTEND A MINIMUM OF 10(HEIGHT + 1/2 SPAN) ON EACH SIDE OF THE STRUCTURE OR TO THE INTERSECTION WITH A CUT.
- 3. STANDARD MINIMUM FINISHED HEIGHT OF COVER FOR ALL PIPES SHALL BE 2'0" OR 1/8 SPAN, WHICHEVER IS GREATER. IN CASES IN WHICH THESE COVER HEIGHTS CANNOT BE ACHIEVED, AN ABSOLUTE MINIMUM FINISHED COVER HEIGHT OF 1.0' OR 1/8 SPAN, WHICHEVER IS GREATER, WILL BE ALLOWED ONLY IF ALL POSSIBLE MEANS TO OBTAIN THE STANDARD VALUE HAVE BEEN EXHAUSTED.
- 4. SEE STANDARD PB-1 FOR PIPE BEDDING AND BACKFILL REQUIREMENTS.
- 5. THE MAXIMUM HEIGHT OF COVER SHOWN IN THE TABLES IS BASED ON A SOIL MODULUS OF 700 PSI. ALL OTHER DESIGN CRITERIA ARE IN ACCORDANCE WITH THE AASHTO SPECIFICATIONS AND VDOT MODIFICATIONS FOR SOIL CORRUGATED METAL STRUCTURE INTERACTION SYSTEMS.
- 6. WHEN DESIGN HEIGHT OF COVER REQUIRES THE USE OF THIS CATEGORY OF PIPE BEDDING FOUNDATION AND BACKFILL MUST BE APPROVED BY THE ENGINEER.
- 7. LAPPED LONGITUDINAL SEAMS SHALL BE STAGGERED SO AS TO ALTERNATE ON EACH SIDE OF THE CENTER OF ARCH TOP BY APPROXIMATELY 15 PERCENT OF THE PERIPHERY.
- 8. A TOLERANCE OF PLUS, OR MINUS, 1" IS PERMISSIBLE FOR DIMENSIONS OF SPAN, RISE, AND CORNER RADIUS.

TABLE A				
PIPE DIAMETER	MINIMUM COVER HEIGHT DURING CONSTRUCTION (SEE NOTE 2)			
17" TO 35"	18''			
42" AND ABOVE	√2 SPAN			



SHEET 7 OF 18

SPECIFICATION
REFERENCE
232
302

## CORRUGATED ALUMINUM ALLOY PIPE ARCH HEIGHT OF COVER TABLE FOR H-20 LIVE LOAD