

STRUCTURAL PLATE STEEL PIPE- 6" x 2" CORRUGATIONS								
PIPE DIAMETER INCHES	AREA SQ. FT.	MINIMUM HEIGHT OF COVER IN FEET						
		SHEET THICKNESS IN INCHES (GAUGE)						
		0.109 (12)	0.138 (10)	0.168 (8)	0.188 (7)	0.218 (5)	0.249 (3)	0.280 (1)
60	20	43	50	58	63	71	79	88
66	24	36	42	48	51	58	64	70
72	28	32	36	40	43	48	53	58
78	33	28	32	35	38	41	45	49
84	38	26	29	32	33	36	39	43
90	44	24	27	29	30	33	35	38
96	50	23	25	27	28	30	32	34
102	57	22	23	25	26	28	29	31
108	64	21	22	24	25	26	27	29
114	71	20	21	23	23	25	26	27
120	78	20	21	22	22	23	24	25
132	95	19	20	20	21	22	22	23
144	113	18	19	20	20	21	21	22
156	133	18	18	19	19	20	20	21
168	154	17	18	18	19	19	19	20
180	177	15	18	18	18	19	19	19
192	201		18	18	18	18	19	19
204	227		17	18	18	18	18	18
216	254			17	18	18	18	18
228	284			17	17	18	18	18
240	314				16	17	18	18

NOTES:

- COVER HEIGHTS INDICATED IN TABLE ARE FOR FINISHED CONSTRUCTION.
- TO PROTECT PIPE DURING CONSTRUCTION MINIMUM HEIGHT OF COVER PRIOR TO ALLOWING CONSTRUCTION TRAFFIC TO CROSS INSTALLATION IS TO BE 1/2 DIAMETER. THIS COVER SHALL EXTEND THE FULL LENGTH OF THE PIPE. THE APPROACH FILL RAMP IS TO EXTEND A MINIMUM OF 10(DIAMETER + 36") ON EACH SIDE OF THE PIPE OR TO THE INTERSECTION WITH A CUT.
- STANDARD MINIMUM FINISHED HEIGHT OF COVER FOR ALL PIPES SHALL BE 2.0' OR 1/2 DIAMETER, 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 DIAMETER WILL BE ALLOWED ONLY IF ALL POSSIBLE MEANS TO OBTAIN THE STANDARD VALUE HAVE BEEN EXHAUSTED.
- 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 AASHTO SPECIFICATIONS AND VDOT MODIFICATIONS FOR SOIL CORRUGATED METAL STRUCTURE INTERSECTION SYSTEMS.
- STRUCTURAL PLATE PIPE DIMENSIONS ARE TO INSIDE CREST AND ARE SUBJECT TO MANUFACTURING TOLERANCES.
- SEE STANDARD PB-1 FOR BEDDING AND BACKFILL REQUIREMENTS.

SPECIFICATION REFERENCE
232 302

STRUCTURAL PLATE STEEL PIPE HEIGHT OF COVER TABLE FOR H-20 LIVE LOAD

VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT ROAD AND BRIDGE STANDARDS	
REVISION DATE	SHEET 8 OF 18
	107.12