

PC-1

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)						
		0.11 (12)	0.14 (10)	0.17 (8)	0.188 (7)	0.218 (5)	0.249 (3)	0.280 (1)
60	20	91	118	145	163	191	218	246
66	24	83	107	132	148	173	198	224
72	28	75	98	120	135	158	181	205
78	33	69	90	111	124	146	167	188
84	38	64	83	103	115	135	154	175
90	44	59	77	95	107	126	144	163
96	50	55	72	89	100	117	134	152
102	57	51	67	83	94	110	126	143
108	64	48	63	78	88	104	119	134
114	71	45	60	74	83	98	112	127
120	78	43	56	70	79	92	106	120
132	95	38	50	63	71	83	96	109
144	113	34	45	57	64	76	87	99
156	133	31	41	52	58	69	80	91
168	154	28	38	47	54	63	73	83
180	177	25	34	43	49	59	68	77
192	201		31	40	45	54	63	72
204	227		29	37	42	50	58	67
216	254			34	39	47	54	62
228	284			31	36	44	51	58
240	314				34	41	48	55

NOTES:

- COVER HEIGHTS INDICATED IN TABLE ARE FOR FINISHED CONSTRUCTION, USING AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND ASSUMING 25% METAL LOSS AT END OF DESIGN LIFE.
- 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.
- STRUCTURAL PLATE PIPE DIMENSIONS ARE TO INSIDE CREST AND ARE SUBJECT TO MANUFACTURING TOLERANCES.
- SEE STANDARD PB-1 FOR BEDDING AND BACKFILL REQUIREMENTS.

VDOT
ROAD AND BRIDGE STANDARDS

SHEET 7 OF 18
107.11

REVISION DATE
11/15

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.

**STRUCTURAL PLATE STEEL PIPE
HEIGHT OF COVER TABLE FOR HL-93 LIVE LOAD**

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION
REFERENCE

232
302