2016 ROAD & BRIDGE STANDARDS

STRUCTURAL PLATE ALUMINUM ALLOY PIPE $9'' \times 2^{1}/_{2}''$ CORRUGATIONS											
PIPE	AREA	MAXIMUM HEIGHT OF COVER IN FEET									
DIAMETER		SHEET THICKNESS IN INCHES									
INCHES	SQ. FT.	0.10	0.125	0.15	0.175	0.20	0.225	0.25			
60	20	59	74	90	105	120	136	151			
66	24	53	67	81	95	109	123	137			
72	28	48	61	74	87	100	112	125			
78	33	44	56	68	80	92	103	115			
84	38	41	52	63	74	85	96	107			
90	44	38	48	58	68	79	89	99			
96	50	35	44	54	64	73	83	93			
102	57	32	41	50	60	69	78	88			
108	64	30	39	47	56	64	73	82			
114	71	28	36	44	53	61	69	77			
120	78	26	34	42	49	57	65	73			
132	95	23	30	37	44	51	58	65			
14 4	113	20	27	33	40	46	53	59			
156	133		24	30	36	42	48	54			
168	154			27	33	38	44	49			
180	177				30	35	40	45			
192	201					32	37	42			
204	227					29	34	39			
216	254						31	36			
228	284							33			

NOTES:

- 1. 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.
- 2. TO PROTECT PIPE DURING CONSTRUCTION, MINIMUM HEIGHT OF COVER PRIOR TO ALLOWING CONSTRUCTION TRAFFIC TO CROSS INSTALLATION SHALL BE ½ 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.
- 3. 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, AND ABSOLUTE MINIMUM FINISHED COVER HEIGHT OF 1.0' OR 1/8 DIAMETER, 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. STEEL BOLTS ONLY TO BE USED. BOLTS ARE ¾" DIAMETER HIGH STRENGTH TO MEET CURRENT AASHTO DESIGNATION M-164 AND GALVANIZED TO MEET CURRENT ASTM DESIGNATION A-394. BOLTS ARE TO BE LOCATED IN THE VALLEY AND CREST OF EACH CORRUGATION IN DOUBLE ROWS SPACED 1¾" APART.

SPECIFICATION REFERENCE	a copy of the original sealed and signed drawing is on file in the central office. STRUCTURAL PLATE ALUMINUM ALLOY PIPE	VDOT	
232 302	HEIGHT OF COVER TABLE FOR HL-93 LIVE LOAD	ROAD AND BRID REVISION DATE	SHEET 8 OF 18
	VIRGINIA DEPARTMENT OF TRANSPORTATION	11/15	107.12

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PC-1