

PIPE DIAMETER (IN.)	AREA (SQ. FT.)	MAXIMUM HEIGHT OF COVER LIMITS IN FEET													
		SHEET THICKNESS IN INCHES													
		0.10		0.125		0.15		0.175		0.20		0.225		0.25	
		CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED
60	20	29	31	32	45	35	60	38	70	41	81	45	89	48	96
66	24	26	28	28	41	31	54	33	64	35	71	38	76	40	80
72	28	24	25	25	37	27	50	29	59	31	62	33	66	35	70
78	33	22	23	24	34	25	46	26	53	28	56	29	59	31	62
84	38	21	22	22	32	23	42	25	49	26	52	27	54	28	56
90	44	20		21	30	22	40	23	46	24	48	25	50	26	52
96	50	19		20	28	21	37	22	44	23	46	23	47	24	49
102	57	18		20	26	20	35	21	41	22	44	22	45	23	46
108	64	17		19	25	20	33	20	39	21	42	21	43	22	44
114	71	16		19	24	19	31	20	37	20	41	21	42	21	43
120	78	15		18	22	19	30	19	35	20	40	20	41	20	41
132	95	14		18	20	18	27	19	32	19	37	19	39	19	39
144	113	12		18	19	18	25	18	29	18	33	19	38	19	38
156	133			17		18	23	18	27	18	31	18	35	18	37
168	154					17	19	18	22	18	26	18	29	18	32
180	177							17	18	18	21	18	23	18	26
192	201									17		17	19	17	21
204	227									14		16		17	18
216	254											13		15	
228	284													13	

Notes:

To protect pipe during construction minimum height of cover prior to allowing construction traffic to cross installation is to be Dia./2. This cover shall extend the full length of the pipe.

The approach fill ramp is to extend a minimum of 10(Dia. + 3') on each side of the structure, or to the intersection with a cut.

Steelbolts only to be used.

Bolts are 3/4" diameter, high strength to meet current AASHTO designation M-164 and galvanized to meet current A.S.T.M. designation A-394. Bolts are to be located in the valley and crest of each corrugation in double rows spaced 1 3/4" apart.

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Cover heights indicated in table are for finished construction.

Minimum finished height of cover to be Dia./8 or 12" whichever is greater.

For details of elongated pipe see sheet 17 of 17.

The allowable cover tables shown are 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 Interaction Systems.

SPECIFICATION REFERENCE

232
302

**STRUCTURAL PLATE ALUMINUM ALLOY PIPE
HEIGHT OF COVER TABLE FOR H-20 LIVE LOAD**

VIRGINIA DEPARTMENT OF TRANSPORTATION