

PC-1		HORIZONTAL INSTALLATION		SPAN-RISE	
EQUIVALENT ROUND SIZE (IN.)	SPAN X RISE (IN.)	MAX. HEIGHT OF COVER IN FEET			
		1 - 13	14 - 21		
		HE - III	HE - IV		
18	23 x 14				
24	30 x 19				
27	34 x 22				
30	38 x 24				
33	42 x 27				
36	45 x 29				
39	49 x 32				
42	53 x 34				
48	60 x 38				
54	68 x 43				
60	76 x 48				
66	83 x 53				
72	91 x 58				
78	98 x 63				
84	106 x 68				

		VERTICAL INSTALLATION			SPAN-RISE	
SPAN X RISE (IN.)	MAX. HEIGHT OF COVER IN FEET					
	1 - 13	14 - 21	22 - 29			
	VE - III	VE - IV	VE - V			
29 x 45						
32 x 49						
34 x 53						
38 x 60						
43 x 68						
48 x 76						
53 x 83						
58 x 91						
63 x 98						
68 x 106						

Heights of cover shown in table are for finished construction. To protect pipe during construction, minimum heights of cover prior to allowing construction traffic to cross installation are to be $\frac{\text{Span}}{2}$ or 3.0' whichever is greater. This cover shall extend the full length of the pipe culvert. The approach fill ramp is to extend a minimum of 10(Span + 3') on each side of the culvert or to the intersection with a cut. Minimum finished height of cover to be $\frac{\text{Span}}{2}$ or 2.0' whichever is greater, except pipe under entrances and median crossovers where a 9' minimum will be permitted.

**ELLIPTICAL CONCRETE PIPE
TABLE FOR H-20 LIVE LOAD**
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE
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