



TYPE A SHORING/TRENCH INSTALLATION									
DIMENSIONS				FILL HEIGHT/STEEL AREAS					
DIA.	A	B	f'c	H < 1.5	1.5 ≤ H < 2	2 ≤ H < 3	3 ≤ H < 7	7 ≤ H < 10	15
42"	4½	5¼	4000	**	0.24	0.22	0.20	0.20	0.25
				**	0.13	0.11	0.10	0.10	0.11
48"	4½	5¾	4000	**	0.26	0.26	0.23	0.23	0.30
				**	0.14	0.14	0.11	0.11	0.14
54	4¾	5½	4000	**	0.32	0.31	0.30	0.34	0.53
				**	0.17	0.16	0.15	0.15	0.18
60	4¾	6	4000	**	0.33	0.33	0.33	0.42	0.62
				**	0.18	0.17	0.17	0.17	0.20
66	5	6½	4000	**	0.35	0.35	0.38	0.50	0.74
				**	0.18	0.18	0.18	0.19	0.23
72	5	7	4000	**	0.37	0.39	0.43	0.58	**
				**	0.19	0.19	0.18	0.21	**

NOTES:

- 1)\* Indicates 5000 LB Concrete Strength.
- 2)\*\*Indicates a Special Design is Required. Use PAIDD Software.
- 3) Elliptical Reinforcing is Not Allowed. Except for Quadrant Reinforcement and for Reinforcement of Elliptical Pipe
- 4) For Double Circular Steel Reinforced Pipe. Two Areas are Shown. The Greater Area is for the Inner Cage Steel and Lesser Area if for Outer Cage Steel.
- 5) Fabricate Concrete Pipe as Per Publication 280 Entitled "Pennsylvania Installation Direct Design Manufacturing Specification"
- 6) Design is Concrete Pipe in Accordance with Pennsylvania Installation Direct Design (PAIDD), and Appendix 5 of Design Manual Part 4, Structures.
- 7) The Design Values Shown in this Standard are Based Upon the Assumption that the Excavation. Backfill and Construction Methods in the RC Standards and Publication 408 are Used.
- 8) Steel Area Shown are in in<sup>2</sup>/ft.



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**42-72 STATE A/SH REQUIRE.**  
 File Name: PA State ASH Required  
 - 42in-72in  
 Revised Date: June, 2009  
[www.oldcastleprecast.com](http://www.oldcastleprecast.com)

**42"-72"  
 State A/SH Require.  
 Shore Trench Box**

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