RECOMMENDED CHANGES IN CLAY AND CEMENT SEWER PIPE SPECIFICATIONS

C HANGES in the tentative specifications for cement sewer pipe and also for clay sewer pipe have been recommended by the committee on sewer pipe of the American Society for Testing Materials. Dr. Rudolph Hering, consulting engineer, of New York City, is the chairman of the committee.

The committee recommends that in the case of clay sewer pipe the values in Table 3, "Dimensions," of the society's specifications, be changed as follows :---

Changes in Clay Pipe Specifications

1. Table III., "Dimensions."—Change the values in the fourth column on "Depth of Hub" to read as follows (the figures in brackets indicate present values to be revised:

rnal D	lameter, in.	Depth of Socke	et. in
6			2
8			21/2
IO		and the second	21/2
12		[3]	21/2
15		[3]	2 1/2
18			z
21		[31/2]	2
24		[31/2]	2
27		[4]	1/2
30		[41/2]	1/2
33		[5]	1
36		[5]	10.4
39		[5]	
42		. [5] 4	Jacobs-

2. Section 32.—Change to read as follows by the insertion of the italicized words:

"The ends of the pipes shall be square with their longitudinal axis, except as provided in Table IV."

3. Section 33 (b).—Change the first sentence to read as follows by the insertion of the italicized figure and the omission of the figure in brackets:

"Curves shall be at angles of 90, 45, $22\frac{1}{2}$ [11^T/₄] deg., as required."

4. Table IV., "Permissible Variations in Dimensions." After the second column, insert a new column headed "Lengths of Two Opposite Sides, in." as follows:

	Limits of Permissible Variatio
Normal Size,	in Lengths of Two Opposite
in.	Sides, in.
6	
8	
10	
12	
15	
18	2/16
21	2/16
24	
27	1/
30	1/
33	24
36	24
30	
42	***************************************
	•••••••••••••••••••••••••••••••••••*/8

5. Substitute the word "socket" for "hub" wherever used in the specifications.

Changes in Cement Sewer Pipe Specifications

1. Section 31 (b).—Change the first sentence to read as follows by the insertion of the italicized figure and the omission of the figure in brackets:

"Curves shall be at angles of 90, 45, $22\frac{1}{2}$ [11¹/₄] deg., as required."

2. Table III., "Dimensions."—Change the table to read as follows by the insertion of a new column headed "Normal Annular Space" and by replacing the matter in brackets by the words and figures indicated:

Table III.—Dimensions	of	Cement =Concrete	Sewer	Pipe
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Internal Diameter, in.	Laying Length, ft.	Diame Inside o 'Socke	ter at f [Hub], t, in.	Normal Annular Space, in.	Depth o Socke	f [Hub], t, in.	Taper of [Hub] Socket.	Minimum Thickners of Barrel, in.
6	2	$[8\frac{1}{2}]$	81	$\frac{1}{2}$	A STATE	ż	1:20	5
8	$2, 2\frac{1}{2}, 3$	$\left[10\frac{7}{8}\right]$	11	58	$[2\frac{1}{2}]$	$2\frac{1}{4}$	1:20	[7] 3
10	$2, 2\frac{1}{2}, 3$	131	13 1/4	<u>5</u> 8	Ser	21/2	1:20	
12	$2, 2\frac{1}{2}, 3$	$[15\frac{1}{2}]$	$15\frac{5}{8}$	<u>5</u> 8	[3]	21	1:20	
•15	$2, 2\frac{1}{2}, 3$		$19\frac{1}{4}$	58	[3]	21	1:20	[1] 1]
18	$2, 2\frac{1}{2}, 3$	12	$22\frac{3}{4}$	58	[3]	23	1:20	
21	$2, 2\frac{1}{2}, 3$	Real Property	$26\frac{1}{2}$	34	$[3\frac{1}{2}]$	23	1:20	
24	$2, 2\frac{1}{2}, 3$	C. Ander	30 1	34	$[3\frac{1}{2}]$	3	1:20	
27	3	13. 1 M	34	78	[4]	31	1:20	
30	3		38	1	[41]	31	1:20	
33	3	13.35	$41\frac{1}{2}$	1	[5]	4	1:20	
36	3	$[45\frac{3}{4}]$	45 1	11	[5]	4	1:20	
39	3	[49]]	49	114	[5]	4	1:20	
42	3	$\left[53\frac{1}{4}\right]$	53	$1\frac{1}{2}$	[5]	4	1:20	$\begin{bmatrix} 4 \end{bmatrix} & 3\frac{1}{2} \\ \begin{bmatrix} 4 \end{bmatrix} & 3\frac{1}{2} \end{bmatrix}$

¹When pipes are furnished having an increase in thickness over that given in last column, the diameter of [hub] socket shall be increased by an amount equal to twice the increase of thickness of barrel.

3. Table IV., "Permissible Variations in Dimensions." Change the values in the third and fourth columns, on "Spigot" and "Hub," to read as follows (the figures in brackets indicate the present values to be revised):

		Limits of Permissible Variation in				
Normal	size,	Internal Diameter, in.				
in.		Spigot ±. Socket				
6	· · · · · · · · · · · · · · · · · · ·		3/16	[1/4]	3/16	
8			1/4	[5/16]	I/A	
IO			1/4	[5/16]	I/A	
12	· · · · · · · · · · · · · · · · · · ·	[5/16]	1/4	[3/8]	I/A	
15		[5/16]	1/4	[3/8]	I/A	
18	· · · · · · · · · · · · · · · · · · ·	[3/8]	1/4	[7/16]	1/4	
21	· · · · · · · · · · · · · · · · · · ·	[7/16]	5/16	[1/2]	5/16	
24	• • • • • • • • • • • • • • • • • • • •	[1/2]	5/16	[9/16]	5/16	
27	• • • • • • • • • • • • • • • • • •	[5/8]	5/16	[11/16]	5/16	
30 .		: [5/8]	3/8	[11/16]	3/8	
33 .	••••••	[3/4]	3/8	[13/16]	3/8 .	
36.	·····	[3/4]	1/2	[13/16]	1/2	
39 .	· · · · · · · · · · · · · · · · · · ·	[3/4]	1/2	[13/16]	1/2	
42 .	· · · · · · · · · · · · · · · · · · ·	[3/4]	1/2	[13/16]	1/2	

4. Substitute the word "socket" for "hub" wherever used in the specifications.

Trent Canal, from Lake Ontario to Lake Simcoe, was formally opened last week. The Minister of Railways and Canals and members of his party were tendered a banquet at the Empress Hotel, Peterborough. Among those who accompanied the Minister on the trip were C. N. Monsarrat, chief engineer, Quebec Bridge Commission; W. A. Howden, chief engineer of Railways and Canals; E. Guss Porter, K.C., M.P.; and Chief Engineer Phillips, of the Rideau Canal.

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