

# SUBMITTAL FOR CHARLOTTE PIPE® HUBLESS CAST IRON SOIL PIPE AND FITTINGS

Date: \_\_\_\_\_

Job Name: \_\_\_\_\_

Location: \_\_\_\_\_

Engineer: \_\_\_\_\_

Contractor: \_\_\_\_\_

## ► Scope:

This specification covers Hubless Cast Iron pipe, fittings, and couplings used in sanitary drain, waste and vent (DWV), sewer, and storm drainage applications. This system is intended for use in non-pressure applications.

## ► Specification:

Hubless Cast Iron pipe and fittings shall be manufactured from gray cast iron and shall conform to ASTM A 888 and CISPI Standard 301. All pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute® © and listed by NSF® International. Hubless Couplings shall conform to CISPI Standard 310, shall be manufactured in the United States, and be certified by NSF® International. Heavy Duty and Medium Duty couplings shall conform to ASTM C 1540, shall be manufactured in the United States, and shall be used if indicated.

## ► Installation:

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry Company® and shall conform to all applicable plumbing, fire, and building code requirements. The system shall be hydrostatically tested after installation to 10 ft. of head (4.3 psi maximum). **WARNING!** Never test with or transport/store compressed air or gas in Cast Iron pipe or fittings. Doing so can result in explosive failures and cause severe injury or death.

## ► Referenced Standards:

ASTM C 564: Rubber Gaskets for Cast Iron Soil Pipe and Fittings  
 CISPI 301: Hubless Cast Iron Soil Pipe and Fittings  
 CISPI 310: Hubless Couplings for Cast Iron Soil Pipe and Fittings  
 ASTM C 1277: Hubless Couplings  
 ASTM C 1540: Hubless Medium Duty and Heavy Duty Couplings



1/4 Bend

1/8 Bend

Wye

Combination

San Tee

San Cross

Test Tee

Reducer

"P" Trap

Blind Plug

Figure Eight

Two-Way Cleanout

**Not all fitting patterns shown**

**TABLE 1**  
**DIMENSIONS AND TOLERANCES (IN INCHES) OF SPIGOTS**  
**AND BARRELS FOR NO-HUB PIPE AND FITTINGS**

	Inside Barrel Diameter	Outside Diameter Barrel	Outside Diameter Spigot	Width Spigot Bead N	Thickness of Barrel	Gasket Positioning Lug
Size	B	J	M	(± .13)	T-Nom. T-Min.	W
1 1/2	1.50 ± .09	1.90 ± .06	1.96 ± .06	.25	.16 .13	1.13
2	1.96 ± .09	2.35 ± .09	2.41 ± .09	.25	.16 .13	1.13
3	2.96 ± .09	3.35 ± .09	3.41 ± .09	.25	.16 .13	1.13
4	3.94 ± .09	4.38 ± .09	4.44 ± .09	.31	.19 .15	1.13
5	4.94 ± .09	5.30 ± .09	5.36 ± .09	.31	.19 .15	1.50
6	5.94 ± .09	6.30 ± .09	6.36 ± .09	.31	.19 .15	1.50
8	7.94 ± .13	8.38 ± .09	8.44 ± .09	.31	.23 .17	2.00
10	10.00 ± .13	10.56 ± .09	10.62 ± .09	.31	.28 .22	2.00
12	11.94 ± .09	12.50 ± .13	12.62 ± .13	.31	.28 .22	2.75
15	15.11 ± .09	15.83 ± .13	16.12 ± .13	.31	.36 .30	2.75

**Note:** Charlotte Pipe does not recommend or warrant installations joined with unshielded hubless couplings.

Charlotte Pipe and Foundry Company • P.O. Box 35430 Charlotte, NC 28235 • (800) 438-6091 • [www.charlottepipe.com](http://www.charlottepipe.com)

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## PART NO. NH 20

## Wye

Size	D	F	G	W	Ww	Weight
1½ x 1½	4	6	2	1⅛	1⅛	2.5
2 x 2	4⅝	6⅝	2	1⅛	1⅛	3.3
3 x 1½	4⅝	6⅞	1⅝	1⅛	1⅛	4.4
3 x 2	5⅝	6⅝	1½	1⅛	1⅛	3.4
3	5¾	8	2¼	1⅛	1⅛	4.6
4 x 2	6	6⅝	1	1⅛	1⅛	5.1
4 x 3	6½	8	1⅞	1⅛	1⅛	7.3
4	7⅞	9½	2⅞	1⅛	1⅛	9.1
5 x 2	7½	8⅞	1⅝	1½	1⅛	8.8
5 x 3	8	9⅞	1⅞	1½	1⅛	10.5
5 x 4	8½	11⅞	2⅞	1½	1⅛	13.1
5	9½	12⅝	3⅞	1½	1½	15.1
6 x 2	8¼	8⅝	½	1½	1⅛	9.8
6 x 3	8¾	9¾	1¼	1½	1⅛	12.5
6 x 4	9¼	11⅞	1⅝	1½	1⅛	14.6
6 x 5	10¼	12½	2⅞	1½	1½	17.6
6	10¾	14⅞	3⅝	1½	1½	19.7
8 x 3	9⅞	9⅝	⅞	2	1⅛	17.5
8 x 4	10⅞	11⅞	1⅝	2	1⅛	22.0
8 x 5	11⅞	12⅞	1⅝	2	1½	23.9
8 x 6	11⅞	14⅞	2⅝	2	1½	28.3
8	13⅞	17⅞	3¾	2	2	36.3
10 x 4	11⅞	12⅝	¾	2	1⅛	32.9
10 x 6	13⅞	15⅞	2⅞	2	1½	42.1
10 x 8	14⅞	18⅞	3⅝	2	2	56.1
10	16½	21½	5⅞	2	2	74.9
12	19¾	25½	5¾	2¾	2¾	97.0
15	23¼	30	6¾	2¾	2¾	189.5

