



	PIPE SIZE	A	B	C	D	F	H	# OF RODS	ROD DIA.	E (H-BEAM)	VOLUME CY
TEES, PLUGS & VALVES	6"	2'-0"	3'-0"	3'-0"	1'-0"	3'-10"	0'-10"	2	3/4"	WBX48	0.67
	8"	3'-0"	3'-0"	5'-0"	1'-1"	3'-11"	0'-11"	2	3/4"	WBX48	1.67
	10"	4'-0"	3'-0"	6'-0"	1'-2"	4'-0"	1'-0"	2	3/4"	WBX48	2.67
	12"	5'-0"	4'-0"	6'-0"	1'-5"	5'-1"	1'-1"	4	3/4"	W10X54	4.44
	14"	6'-0"	4'-0"	7'-0"	1'-6"	5'-2"	1'-2"	4	3/4"	W10X54	6.22
	16"	7'-0"	4'-0"	8'-0"	1'-8"	5'-3"	1'-3"	4	3/4"	W10X54	8.30
11 1/4' BEND	6"	2'-0"	3'-0"	3'-0"	1'-0"	3'-10"	0'-10"	2	3/4"	WBX48	0.67
	8"	2'-0"	3'-0"	3'-0"	1'-1"	3'-11"	0'-11"	2	3/4"	WBX48	0.67
	10"	2'-0"	3'-0"	3'-0"	1'-2"	4'-0"	1'-0"	2	3/4"	WBX48	0.67
	12"	2'-0"	3'-0"	3'-6"	1'-5"	4'-1"	1'-1"	4	3/4"	W10X54	0.78
	14"	2'-0"	3'-0"	3'-6"	1'-6"	4'-2"	1'-2"	4	3/4"	W10X54	0.78
	16"	3'-6"	3'-0"	4'-0"	1'-8"	4'-3"	1'-3"	4	3/4"	W10X54	1.56
22 1/2' BEND	6"	2'-0"	3'-0"	3'-0"	1'-0"	3'-10"	0'-10"	2	3/4"	WBX48	0.67
	8"	2'-0"	3'-0"	3'-0"	1'-1"	3'-11"	0'-11"	2	3/4"	WBX48	0.67
	10"	2'-0"	3'-0"	3'-6"	1'-2"	4'-0"	1'-0"	2	3/4"	WBX48	0.78
	12"	3'-6"	3'-0"	4'-0"	1'-5"	4'-1"	1'-1"	4	3/4"	W10X54	1.56
	14"	4'-0"	3'-0"	5'-0"	1'-6"	4'-2"	1'-2"	4	3/4"	W10X54	2.22
	16"	4'-0"	3'-6"	6'-0"	1'-8"	4'-9"	1'-3"	4	3/4"	W10X54	3.11
45' BEND	6"	2'-0"	3'-0"	3'-0"	1'-0"	3'-10"	0'-10"	2	3/4"	WBX48	0.67
	8"	2'-0"	3'-0"	4'-0"	1'-1"	3'-11"	0'-11"	2	3/4"	WBX48	0.89
	10"	4'-0"	3'-0"	5'-0"	1'-2"	4'-0"	1'-0"	2	3/4"	WBX48	2.22
	12"	4'-0"	4'-0"	5'-6"	1'-5"	5'-1"	1'-1"	4	3/4"	W10X54	3.26
	14"	5'-6"	4'-0"	6'-0"	1'-6"	5'-2"	1'-2"	4	3/4"	W10X54	4.89
	16"	6'-0"	4'-0"	7'-6"	1'-8"	5'-3"	1'-3"	4	3/4"	W10X54	6.67
90' BEND	6"	2'-6"	3'-0"	4'-0"	1'-0"	3'-10"	0'-10"	2	3/4"	WBX48	1.11
	8"	4'-0"	3'-0"	5'-6"	1'-1"	3'-11"	0'-11"	2	3/4"	WBX48	2.44
	10"	5'-0"	3'-0"	7'-6"	1'-2"	4'-0"	1'-0"	2	3/4"	WBX48	4.17
	12"	6'-0"	3'-0"	8'-0"	1'-5"	4'-1"	1'-1"	4	3/4"	W10X54	5.33
	14"	7'-6"	3'-0"	9'-0"	1'-6"	4'-2"	1'-2"	4	3/4"	W10X54	7.50
	16"	9'-0"	3'-6"	9'-0"	1'-8"	4'-9"	1'-3"	4	3/4"	W10X54	10.5

NOTE

- 1- BASED UPON ROD AND NUT HAVING YIELD STRENGTH OF 95,000 POUNDS
- 2- SOIL BEARING CAPACITY OF 2000 P.S.F.
- 3- RODS TO HAVE 6" OF THREAD ON EACH END
- 4- ALL METAL TO BE CLEANED AND COATED WITH AN APPROVED PROTECTIVE COATING FOLLOWING INSTALLATION & PRIOR TO BACKFILLING.
- 5- ROD ALIGNMENT TO BE DETERMINED OR APPROVED BY SPARTANBURG WATER ENGINEERING DEPARTMENT.
- 6- GRINNELL STRAPS MAY BE USED IN NON-TYPICAL SITUATIONS SUBJECT TO APPROVAL BY SPARTANBURG WATER ENGINEERING DEPARTMENT.
- 7- FOR 3" & 4" PIPE, USE 6" SIZES.
- 8- FOR PIPE SIZES LARGER THAN 16" ENGINEER TO SUBMIT DESIGN FOR APPROVAL BY SPARTANBURG WATER ENGINEERING DEPARTMENT.

THE INTENT OF THIS DETAIL IS TO CLARIFY AND NOT SUPERSEDE OR MODIFY THE SPECIFIC REQUIREMENTS AS LISTED IN THE SPECIFICATIONS



TYPICAL CONCRETE DEAD-MAN DETAIL (16" AND SMALLER)

SCALE: NTS REVISION DATE: 11/07/2016