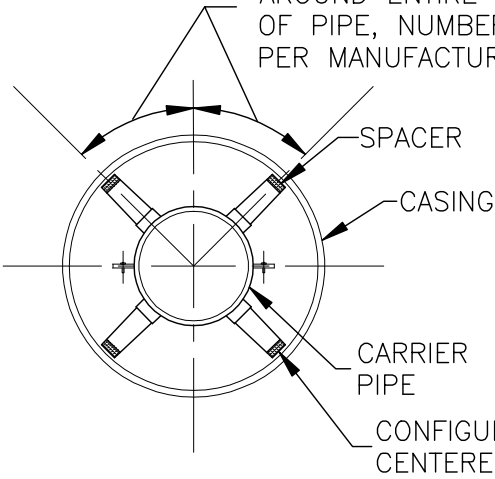
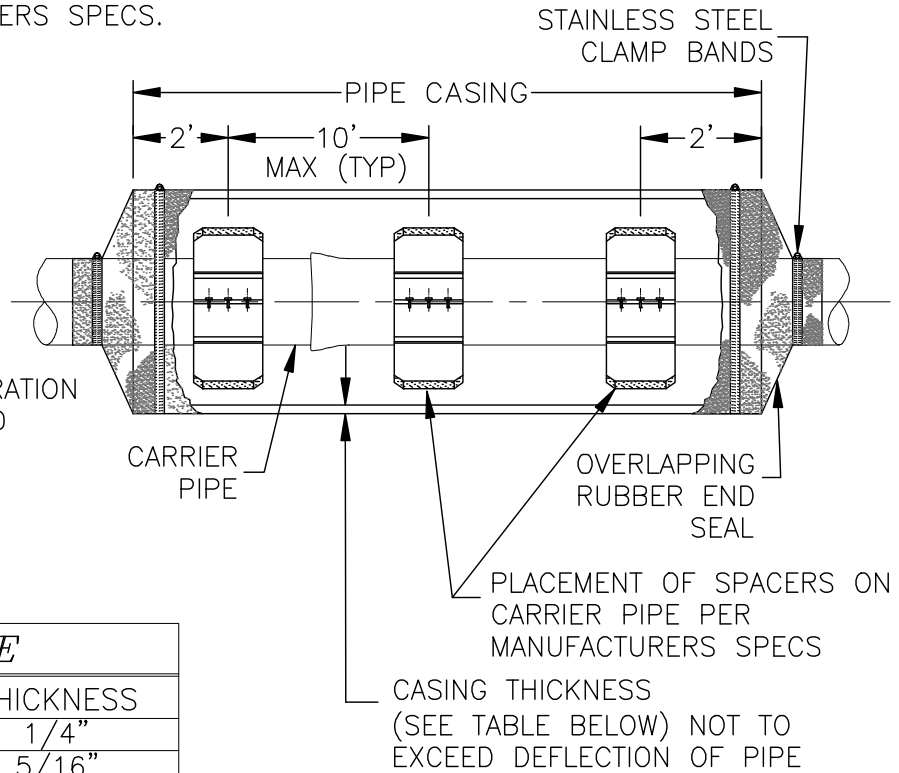


ANGLES TO BE CONSTANT  
AROUND ENTIRE CIRCUMFERENCE  
OF PIPE, NUMBER OF SPACERS  
PER MANUFACTURERS SPECS.



CROSS SECTION



CASING DETAIL

<i>CARRIER PIPE</i>		
PIPE SIZE	CASING OD	THICKNESS
8"	18"	1/4"
12"	24"	5/16"
16"	30"	3/8"
18"	30"	3/8"
20"	36"	1/2"
24"	42"	1/2"

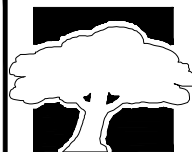
NOTES:

1. STEEL PIPE CASING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A283, GRADE B, C, OR D. ALL JOINTS SHALL BE WELDED. INTERIOR JOINTS SHALL BE GROUND TO A SMOOTH FINISH. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C206, "AWWA STANDARD FOR FIELD WELDING OF STEEL WATER PIPE." COATINGS FOR STEEL CASING ARE NOT REQUIRED.
2. STEEL PIPE CASING SHALL BE INSTALLED SYMMETRICAL ABOUT WATER MAIN CENTERLINE (TYP). PIPE CASING SHALL BE LAID TRUE TO LINE AND GRADE WITH NO BENDS OR CHANGES IN GRADE FOR THE FULL LENGTH OF THE CASING.
3. DISTRICT APPROVED CASING SPACERS AND END SEALS SHALL BE INSTALLED PER MANUFACTURERS SPECS. USE A CENTERED CONFIGURATION AND PROVIDE THE MANUFACTURER WITH THE FOLLOWING: (PIPE OD, CASING ID, AND CASING LENGTH)
4. ALL PIPE JOINTS WITHIN THE CASING ARE TO BE RESTRAINED.

J:\AUTOCAD FILES\AUTOCAD MASTER DWGS\WORKING DWGS\Standard SPEC DWGS\Std-Dwg\_FOWD\Draws\Std-20-Pipe Casing.dwg, 11/15/07 03:06:11pm, time

**Fair Oaks Water District**

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**FAIR OAKS  
WATER DISTRICT**

**CASING INSTALLATION  
DETAILS**

APPROVED:  
M. NISENBOYM  
DRAWN BY  
T. EGGAR  
DRAWING  
**STD-20**  
REVISED  
AUG 2007  
SCALE  
N/A

**Standard Specifications**

**Standard Drawing 20**