



NOTES:

1. SPACING BETWEEN THE CASING INSULATORS SHALL BE PER THE MANUFACTURERS RECOMMENDATIONS EXCEPT THAT THERE SHALL BE AT LEAST 3 CASING INSULATORS PER PIPE SECTION, ONE 12" FROM EACH JOINT AND ONE CENTERED. ADDITIONALLY, ONE INSULATOR SHALL BE INSTALLED 12" FROM EACH END OF THE CASING.
2. BOTH ENDS OF THE CASING BETWEEN THE CASING AND CARRIER PIPE MUST BE SEALED WATERTIGHT USING CONCRETE OR A HEAT SHRINK WRAP AROUND SEAL SUCH AS MANUFACTURED BY PIPELINE SEAL AND INSULATOR LTD. OR APPROVED EQUAL. BANDS SHALL BE TYPE 316 STAINLESS STEEL.
3. ALL STEEL CASING PIPE JOINTS SHALL BE WELDED FULL CIRCUMFERENCE.
4. SIZE AND THICKNESS OF CASING SHALL BE AS SHOWN IN SCHEDULE.
5. CASING INSTALLATION METHOD SHALL BE APPROVED BY THE CITY ENGINEER AND THE WATER UTILITIES DEPARTMENT IF CARRIER PIPE MATERIAL IS DIFFERENT THIS MUST BE SUBMITTED AND APPROVED BY WATER UTILITIES DEPT.
6. THE STEEL CASING SHALL BE LINED AND COATED WITH HOT APPLIED COAL TAR ENAMEL PER AWWA C203. ENAMEL SHALL BE AWWA TYPE II.

SCHEDULE STEEL CASING FOR PIPELINES		
CARRIER PIPE NOMINAL SIZE (INCHES)	CASING WALL THICKNESS (INCH)	MINIMUM CASING O.D. (INCHES)
8	3/8	20
10	3/8	22
12	3/8	24
14	7/16	26
15	7/16	26
16	1/2	30
18	1/2	32
20	1/2	34
21	1/2	34
24	1/2	42
27	5/8	42
30	5/8	48

Revision	By	Approved	Date
03/02/01	kol		
10/18/02	DW		
08/30/04	AC		
04/04/07	AC		
09/22/10	DW		

CITY OF OCEANSIDE

STEEL CASING DETAIL

John D. Smith 12-1-10
CITY ENGINEER Date
STANDARD
DRAWING NO. W-25