




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 SHALL BE INSTALLED BY THE BORE AND JACK AND/OR TUNNEL METHOD. METHOD MUST BE APPROVED BY THE WATER UTILITIES DEPARTMENT.
6. THE STEEL CASING SHALL BE LINED AND COATED WITH HOT APPLIED COAL TAR ENAMEL PER AWWA C203. ENAMEL SHALL BE AWWA TYPE II.

Revision	By	Approved	Date	<div style="text-align: center;"> <h1>CITY OF OCEANSIDE</h1> <h2>SEWER ENCASEMENT DETAIL</h2> </div>	<div style="text-align: right;">  12.1.10  CITY ENGINEER Date  STANDARD DRAWING NO. <b>S-8</b> </div>
03/02/01	kal				
10/18/02	CM				
08/30/04	AC				
09/22/10	CM				