


**NOTES:**

1. SPACERS SHALL BE BOLT ON STYLE, TWO PIECE SHELL OF 304 STAINLESS STEEL OF A MINIMUM 14 GAUGE THICKNESS. SHELL SHALL BE LINED WITH RIBBED PVC SHEET OF A 0.090" THICKNESS, WITH OVERLAPS AT EDGES. (CASCADE TYPE CCS SPACERS OR APPROVED EQUAL)
2. FOR PIPE DIAMETERS 4" THROUGH 12" INSTALL STAINLESS STEEL PIPE CASING SPACERS 5'-0" OR LESS FROM EACH END OF PIPE, BUT NOT MORE THAN 10' APART (2 PER PIPE). FOR PIPE DIAMETERS 14" AND LARGER, INSTALL STAINLESS STEEL PIPE CASING SPACERS 5'-0" OR LESS FROM EACH END OF PIPE AND ONE CENTERED ON THE PIPE (3 PER PIPE).
3. ALTERNATE METHODS OF PIPE SUPPORT WITHIN THE CASING MUST BE APPROVED BY CITY ENGINEER PRIOR TO INSTALLATION.
4. MUST PROVIDE HEAD LOSS CALCULATIONS TO THE CITY ENGINEER PRIOR TO CONSTRUCTION.

NO.	REVISED	BY	<p><b>Separation Manhole Detail</b></p>	APPROVED	 CITY ENGINEER RCE-28191
				DATE: 2-2-99	
DRAWN BY: TP				STANDARD NO. <b>SD-11</b>	
CHECKED BY: DJR			<b>CITY OF RIPON</b>		
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