

CASING PIPE REQUIREMENTS						
CARRIER PIPE DIA.	MINIMUM CASING PIPE DIA.	MINIMUM WALL THICKNESS				MINIMUM NUMBER OF CASING SPACER RUNNERS
		CRITERIA WITHIN RAILROAD RIGHT OF WAY		CRITERIA WITHIN CITY OR VDOT RIGHT OF WAY		
		R.C.P. PROTECTIVE COATING	STEEL WITH PROTECTIVE COATING	R.C.P.	STEEL	
4"	12"	3.0	0.375	3.0	0.250	4
6"	18"	3.0	0.375	3.0	0.250	4
8"	18"	3.0	0.375	3.0	0.250	4
10"	20"	3.0	0.375	3.0	0.250	4
12"	24"	3.5	0.375	3.5	0.250	4
16"	30"	4.0	0.500	4.0	0.375	6
18"	30"	4.0	0.500	4.0	0.375	6
20"	36"	4.5	0.563	4.5	0.375	6
24"	42"	5.0	0.625	5.0	0.500	6

NOTES:

1. SLOPE CASING PIPE AT MINIMUM GRADE OF 1/16" PER FOOT
2. PROVIDE LEAK DETECTION PER DETAIL
3. OPTION 1 OR OPTION 2 AT DISCRESSION OF ENGINEERING
4. INCREASING THICKNESS OF CASING MUST BE CONSIDERED WHERE BORE LENGTHS EXCEED 125 FEET.

	CITY OF NORFOLK – DEPARTMENT OF UTILITIES STANDARD DETAILS	SCALE: NOT TO SCALE
	WATER & FM CASING REQUIRMENTS	DRAWING NO. CWS 07C
DATE: 07/07		