



VOID BETWEEN CASING AND CARRIER PIPE TO BE FILLED WITH FLOWABLE FILL.

THE JOINTS OF THE CASING ARE TO BE FIELD WELDED AROUND THEIR CIRCUMFERENCE BEFORE THE CARRIER PIPE IS PUSHED/PULLED INTO THE CASING.

BULKHEADS SHALL BE PROVIDED AT BOTH ENDS OF THE CASING PIPE.

THE CONTRACTOR SHALL SUBMIT IN WRITING, DETAILS OF THE APPROPRIATE PIPE CASING INSTALLATION FOR REVIEW & APPROVAL OF THE ENGINEER BEFORE INSTALLATION OF ANY CASING STARTS.

THE CONTRACTOR SHALL CHECK LINE AND GRADE AFTER EACH AUGER CHANGE, INSIDE OF CASING PIPE, AND USE LASER IF MINING AND LINING IS USED.

RCP UNDER HIGHWAY OR STREETS SHALL BE ASTM DESIGNATION C76, CLASS 4. RCP UNDER RAILROADS SHALL BE ASTM DESIGNATION C76, CLASS 5.

STEEL CASING PIPE SHALL BE UNCOATED PIPE MEETING THE REQUIREMENTS OF EITHER ASTM A53, (TYPE E OR S, GRADE B) OR ASTM A139 (GRADE B) AND SHALL CONFORM TO THE FOLLOWING TABLE:

NOMINAL SIZE OF CASING PIPE (INCHES)	MIN. WALL THICKNESS UNDER HIGHWAY OR STREET (INCHES)	MIN. WALL THICKNESS UNDER RAILROAD (INCHES)
12	0.250	0.281
18	0.250	0.312
20	0.250	0.344
24	0.250	0.406
30	0.312	0.469
36	0.312	0.531
42	0.531	0.562
48	0.609	0.609
54	0.687	0.687

MACOMB TOWNSHIP CASING DETAILS

NOT TO SCALE