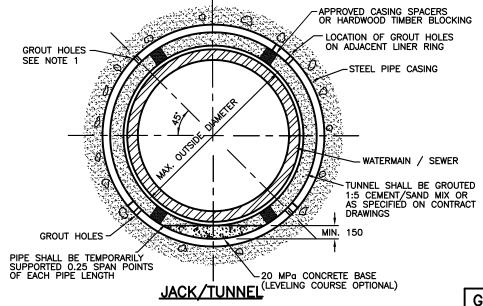


NOTES

- 1. GROUT SHALL BE INJECTED INTO THE LOWER GROUT HOLE UNTIL GROUT EMERGES FROM THE UPPER HOLE.
- OUTSIDE OF LINER PLATE SHALL BE GROUTED TO RESISTANCE WITH 1:2 CEMENT / SAND GROUT OR APPROVED EQUAL AT THE END
- OF EACH WORKING DAY, AS REQUIRED.

 3. GROUT HOLES SHALL BE SECURELY PLUGGED AFTER GROUT INJECTION.
- 4. APPROVED CASING SPACERS SHALL BE USED AND INSTALLED AS PER THE MANUFACTURERS RECOMMENDED PROCEDURE.
- 5. LINER TO BE MADE WATERTIGHT AT THE END OF EACH WORKING DAY.

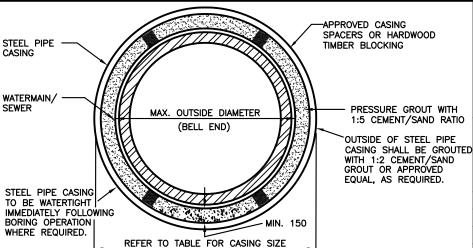


NOTES

- 1. GROUT SHALL BE INJECTED INTO THE LOWER GROUT HOLE UNTIL GROUT EMERGES FROM
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JACK/BORE

DURHAM REGION

WORKS DEPARTMENT

GENERAL NOTES

- REFER TO "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS" FOR MINIMUM CASING PIPE SIZES
- FROJECIS FOR MINIMUM CASING FIFE SIZES FOR CONFINED SPACE ENTRY.
 STEEL CASING PIPE TO CONFORM TO REQUIREMENTS OF GRADE 2 STEEL AS SPECIFIED IN ASTM STANDARD A252. PIPE ENDS SHALL BE BEVEL EDGED ON THE OUTSIDE TO AN ANGLE OF 30 DEGREES FOR BUTT WELD SPLICING.
- BLOCKING OR CASING SPACERS SHALL BE SIZED TO PREVENT FLOATING.

1:5 CEMENT/SAND RATIO OUTSIDE OF STEEL PIPE CASING SHALL BE GROUTED WITH 1:2 CEMENT/SAND GROUT OR APPROVED EQUAL, AS REQUIRED.	SMOOT FOR [TH WALI DEPTH (L STEE UP TO	L PIPE 10 m
	PIPE DIAMETER	MINIMUM CASING SIZE SEE NOTE 1	MIN. CASING	UNDER
			ROADWAY	RAILWAY
	150 mm	500 mm	6.350 mm	7.137 mm
	200 mm	600 mm	9.525 mm	8.737 mm
	300 mm	750 mm	9.525 mm	10.312 mm
	400 mm	900 mm	12.700 mm	11.913 mm

ALL DIMENSIONS IN MILLIMETRES EXCEPT WHERE NOTED

DWG. DATE: 1978 03 REVISION NO.: 8 REV. DATE: 2013 04 SCALE: N.T.S.

S-200.080

PIPE CASING