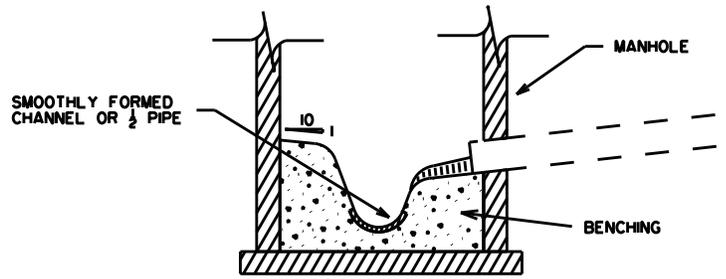
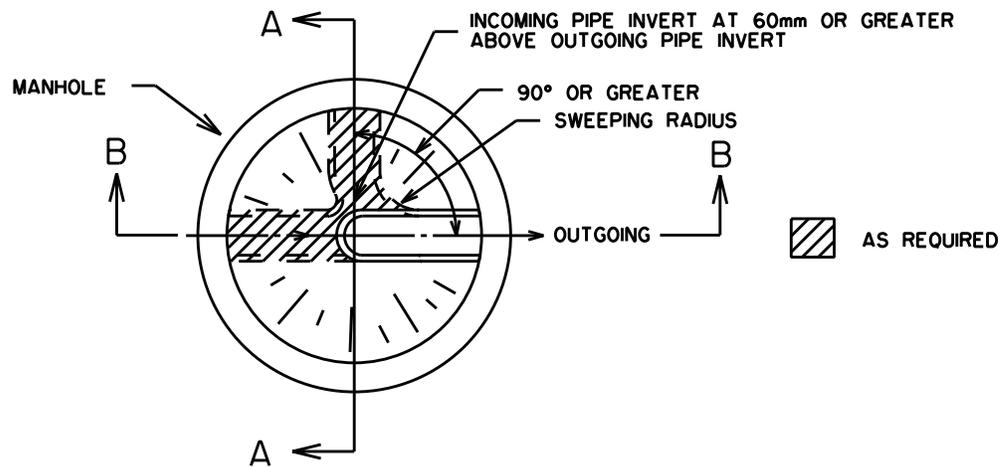


SECTION B-B
TYPICAL BENCHING



SECTION A-A
TYPICAL BENCHING



NOTE: - ALL DIMENSIONS IN MILLIMETERS.

- BENCHING SLOPE TO BE 10 : 1 FROM SPRING LINE OF PIPE (1/2 WAY UP)
- ON SANITARY SEWER USE EXTERIOR DROP MANHOLE WHEN INCOMING PIPE INVERT IS 600 OR GREATER ABOVE OUTGOING PIPE INVERT.
- NO SHARP CORNERS.
- BENCHING CONCRETE TO BE TYPE 50 SULPHATE RESISTANT CEMENT. MINIMUM COMPRESSIVE STRENGTH TO BE 30 MPa @ 28 DAYS.
- 30 mm DROP ACROSS M.H. BETWEEN INCOMING & OUTGOING INVERTS FOR PIPE GRADE UP TO 2%.
- 60 mm DROP ACROSS M.H. BETWEEN INCOMING & OUTGOING INVERTS FOR PIPE GRADES > 2%. AND < = 5%. ALSO FOR 90° TURNS.
- DROP ACROSS M.H. BETWEEN INCOMING & OUTGOING INVERTS TO BE @ GRADE OF PIPE FOR PIPE GRADES > 5%
- ALL INCOMING PIPE MUST BE GROUTED TO BE FLUSH WITH BENCHING IN MANHOLES.

REVISED	 <p style="text-align: center;">CITY OF <i>Lethbridge</i> INFRASTRUCTURE SERVICES</p>	DRAWN	P.R.A.
DEC 3/07		CHECKED	
FEB 5/10		APPROVED	
		SCALE	N.T.S.
		DATE	97/02/18
		DWG NO	S-07
TYPICAL BENCHING IN MANHOLES			