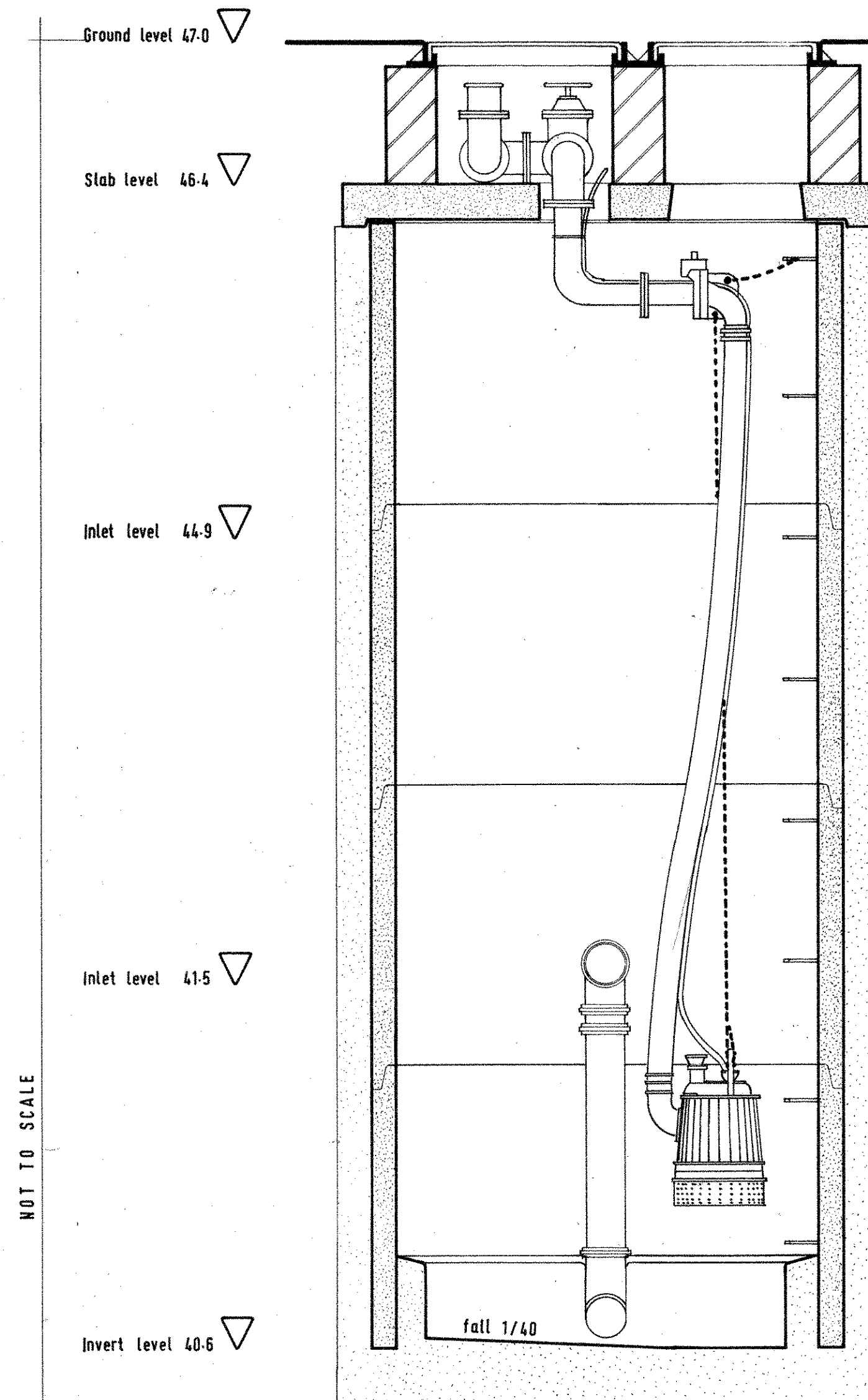


WD/8236/2/B

Manhole cover and frame - grade B
to BS 497 bedded on 1:3 cement/
sand mortar



Section A-A

225 Class B Engineering brickwork

Heavy duty precast concrete cover
slab to BS 556

Flexible delivery hose and electrical
supply to pump

Step irons at 300 c/s to BS 1247

150 concrete - class 20/20
surround

1800 dia precast concrete chamber
rings to BS 556

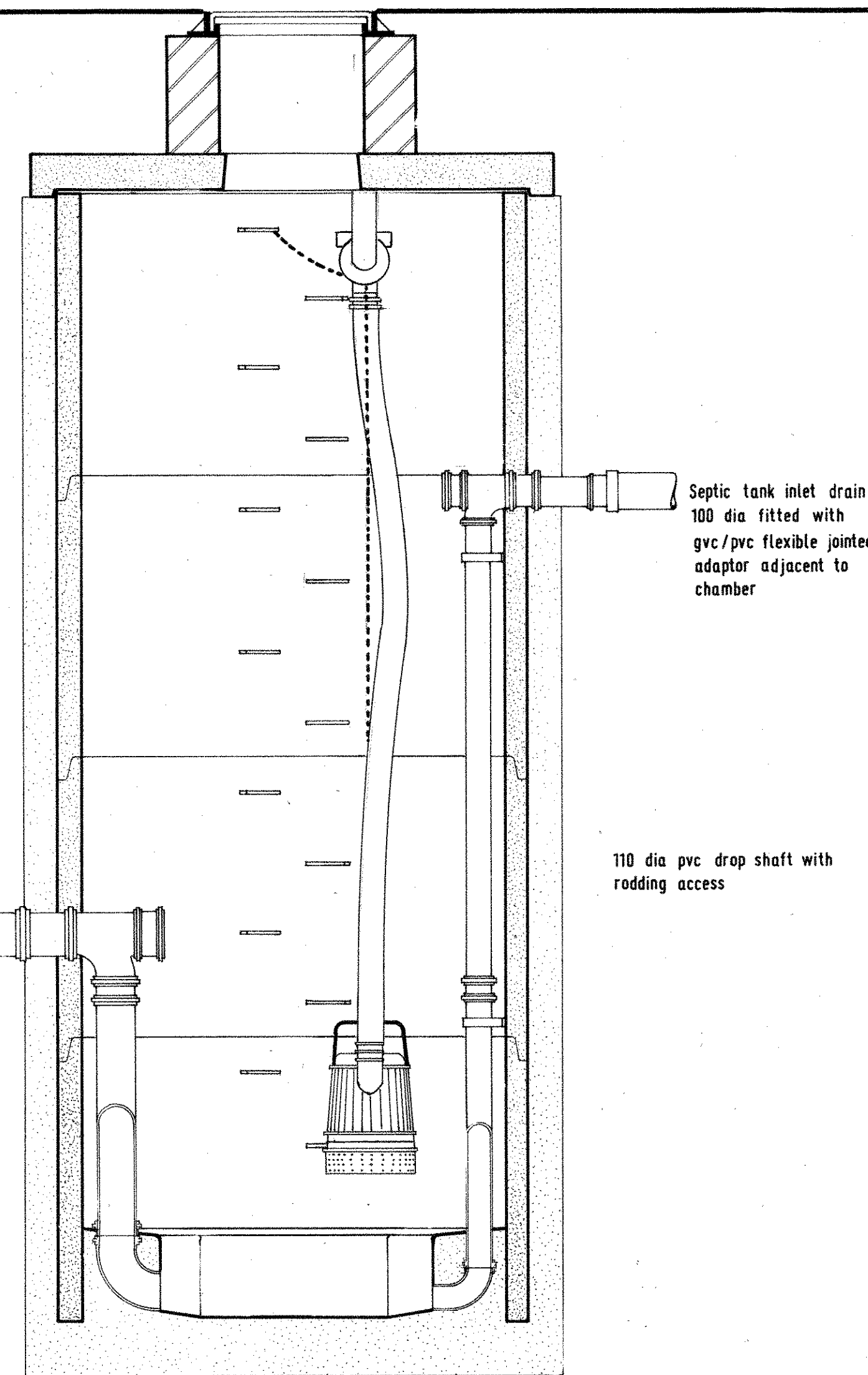
Chain suspending pump from
'pumplok' coupling

Leachate inlet drain
150 dia fitted with
gvc / pvc flexible jointed
adaptor adjacent to chamber

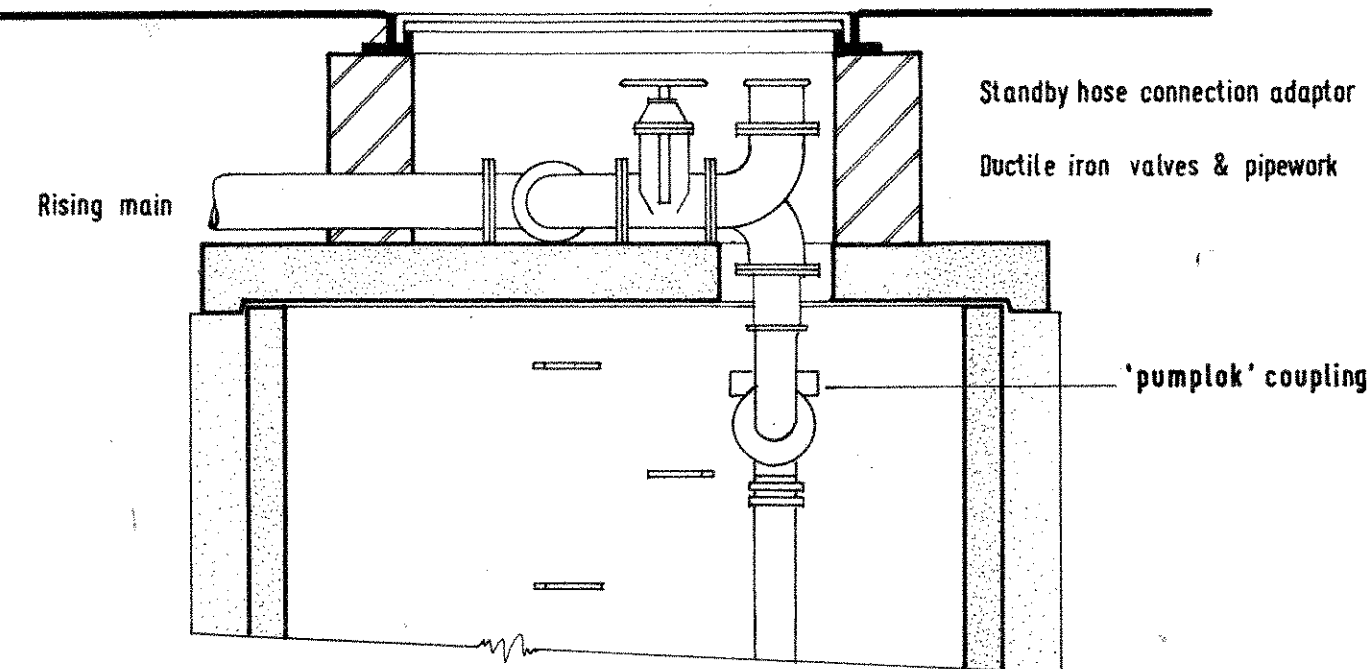
160 dia pvc drop shaft with
rodding access

Pump

Min 225 concrete class 20/20
base to chamber

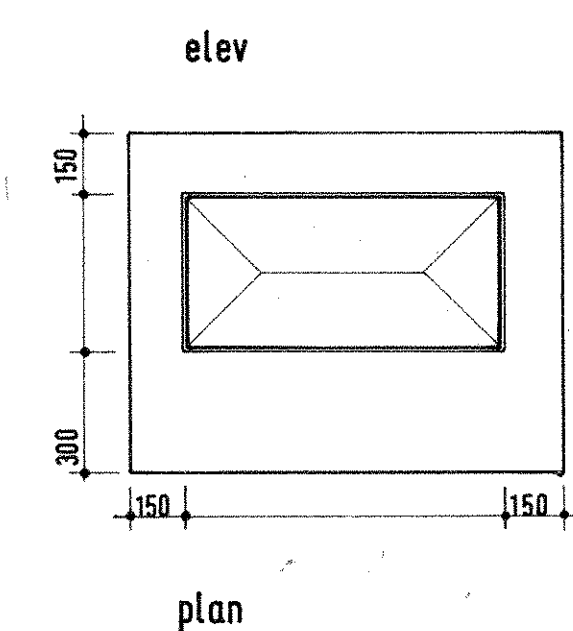
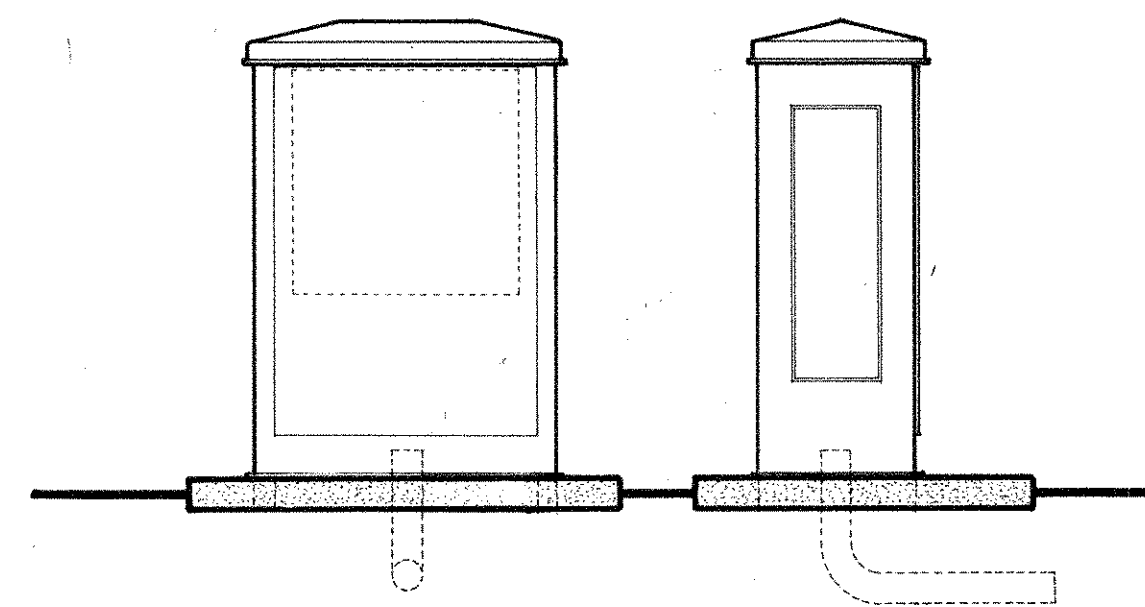


Section B-B



Section C-C

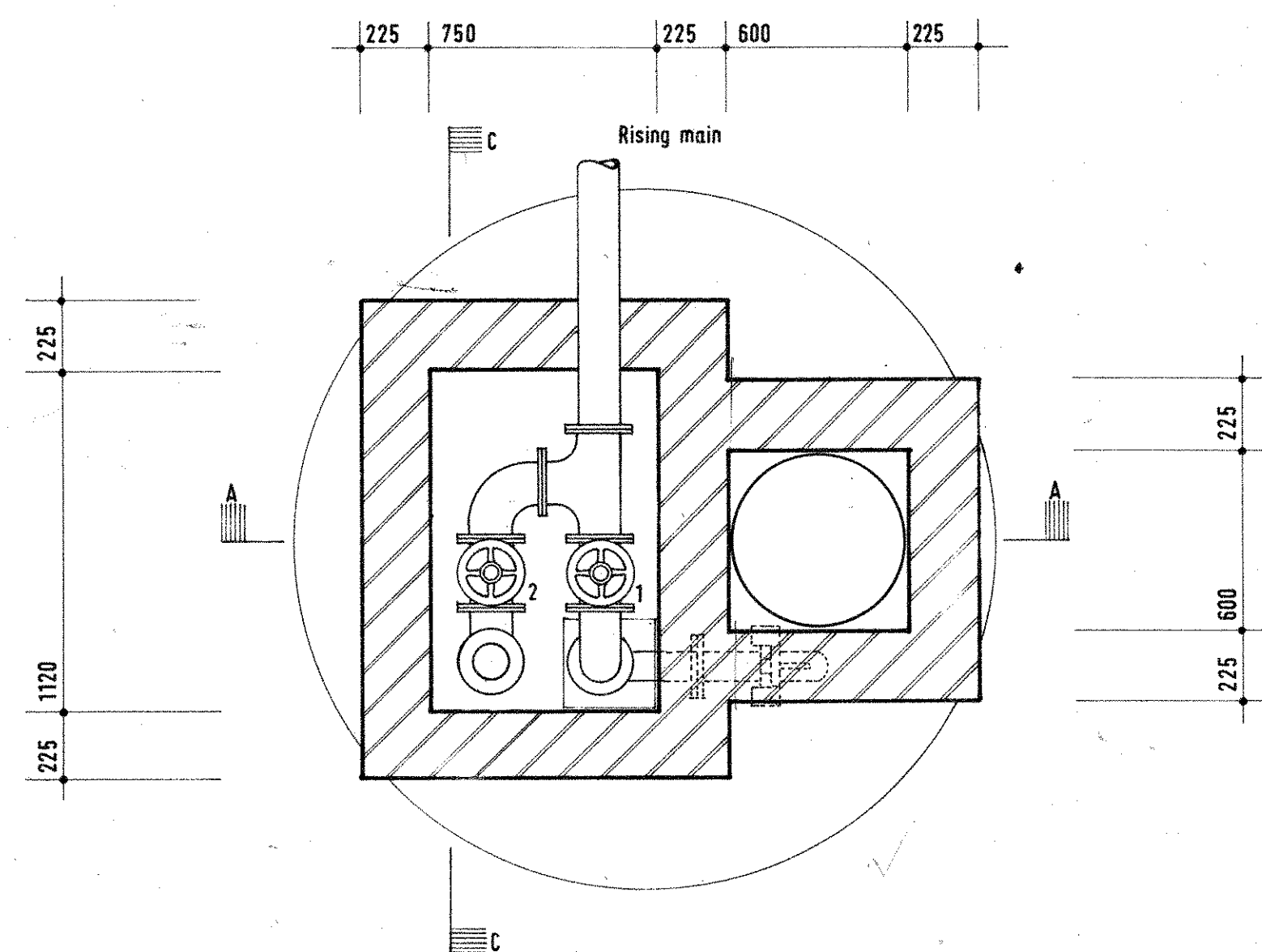
Typical details of electricity meter housing



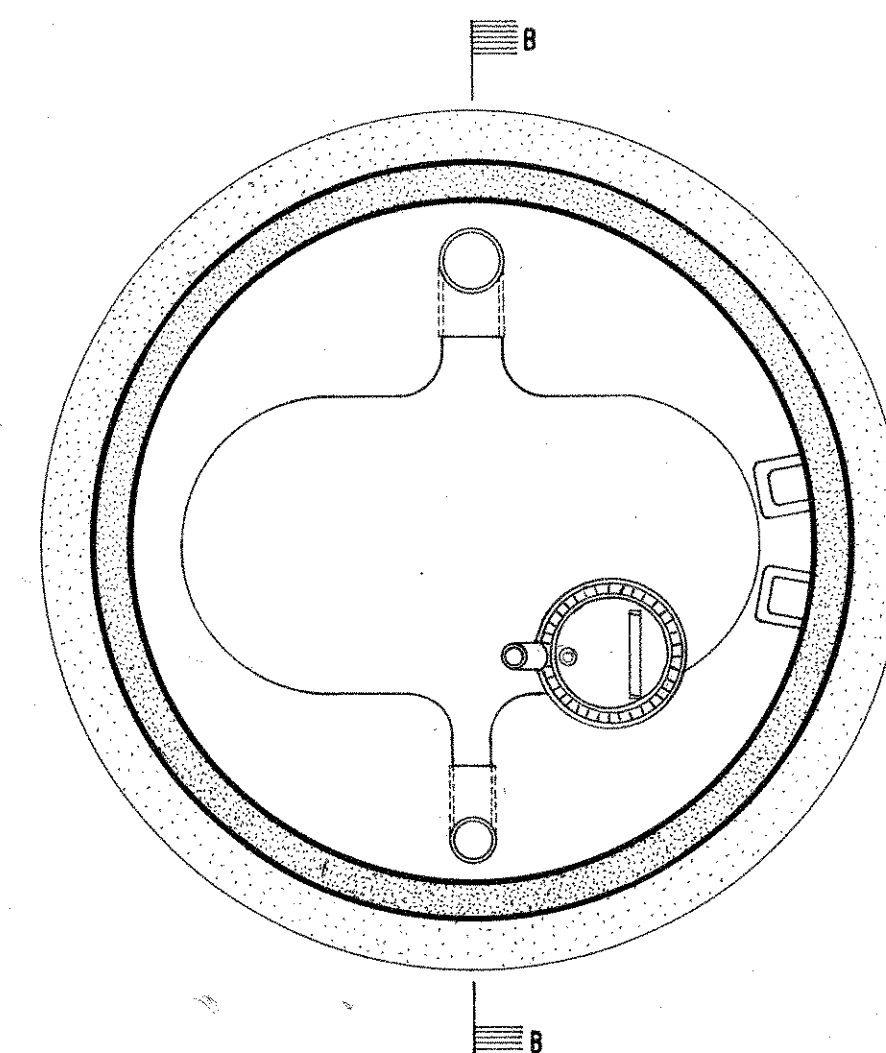
Housing to be weatherproof
Wooden backboard to be min 600 x 600 and 500 above g.l.
100 dia service duct to be installed through base to 50 above slab
Canc base 100 thick to dimensions shown

Notes

- Manhole cover and frames to have clear openings as follows :-
chamber access 600 x 600 : valve chamber access 1120 x 750
- Chamber ring joints to be made with 1:3 sulphate resistant
cement / sand
- Submersible pump to be explosion-proof with automatic level
control (capacity 36 cm per day at 19 m head)
- Manhole covers to have locking facility and be vented
- Cover slab to be adapted as shown to accommodate pump hose
- Pump automatic level control to be fully adjustable such that
suitable operating levels may be obtained after installation
- Ductile iron pipework and valves manufactured by Stanton and Staveley
or other similar approved
Bends Double flanged 90° short radius 80 nominal diameter
Tee All flanged 80 / 80 nominal diameter
Valves Euro 16 DN 80 gate valve
1 Main pump valve
2 Emergency pump valve



Sectional plan of valve and access chambers



Sectional plan of invert

**Merseyside
County Council**

RED QUARRY ST HELENS

**Proposed leachate
pumping station**

RJ Williams M Eng C Eng FICE FIMun E
County Engineer
4th Floor, Steers House
Canning Place, Liverpool L1 8JA

Drawn JMB	Traced JMB	Scale 1:20
Date May '83	Checked RMG	Sheet No of

Drg. No. WD/8236/2/B