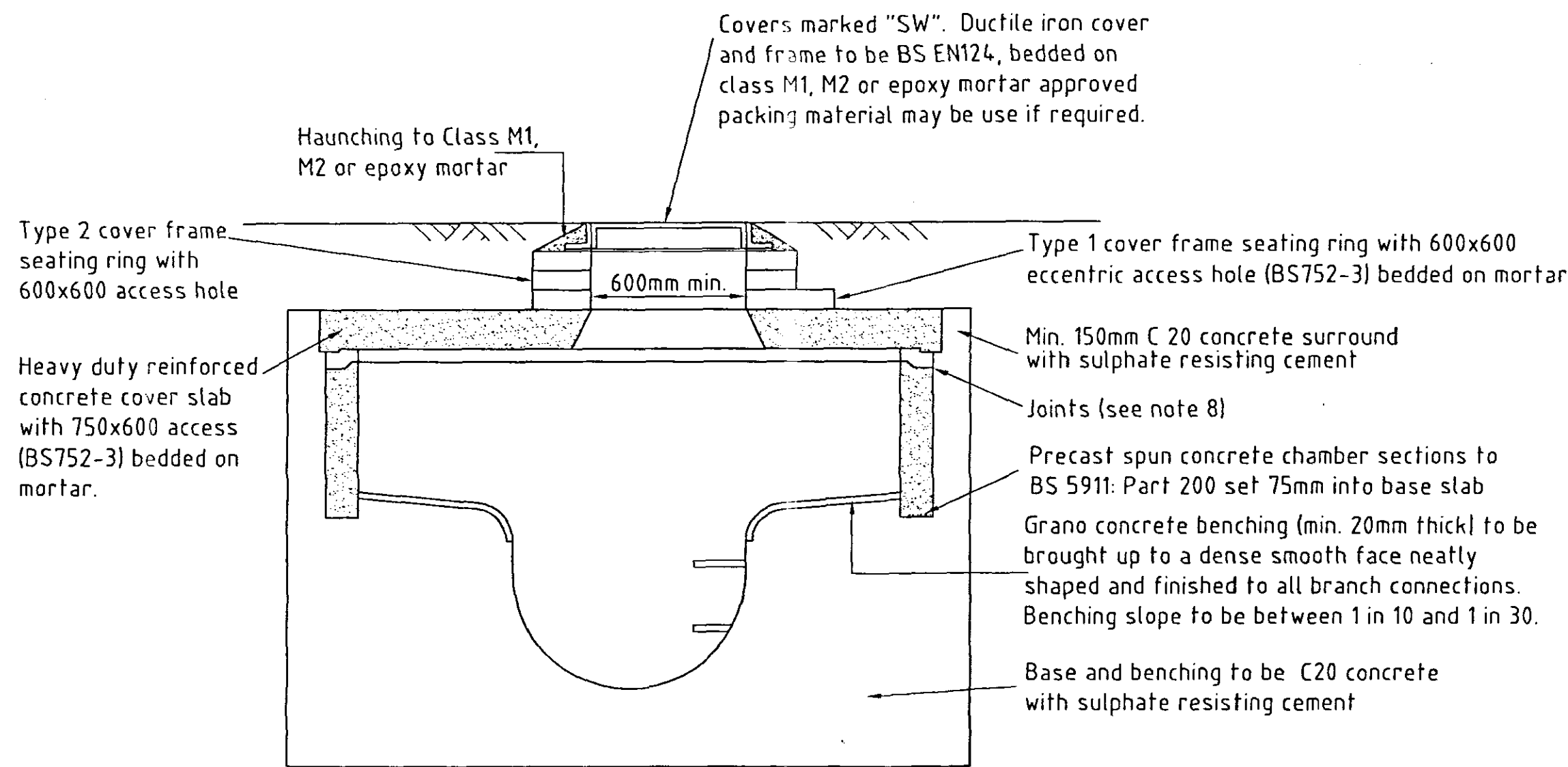
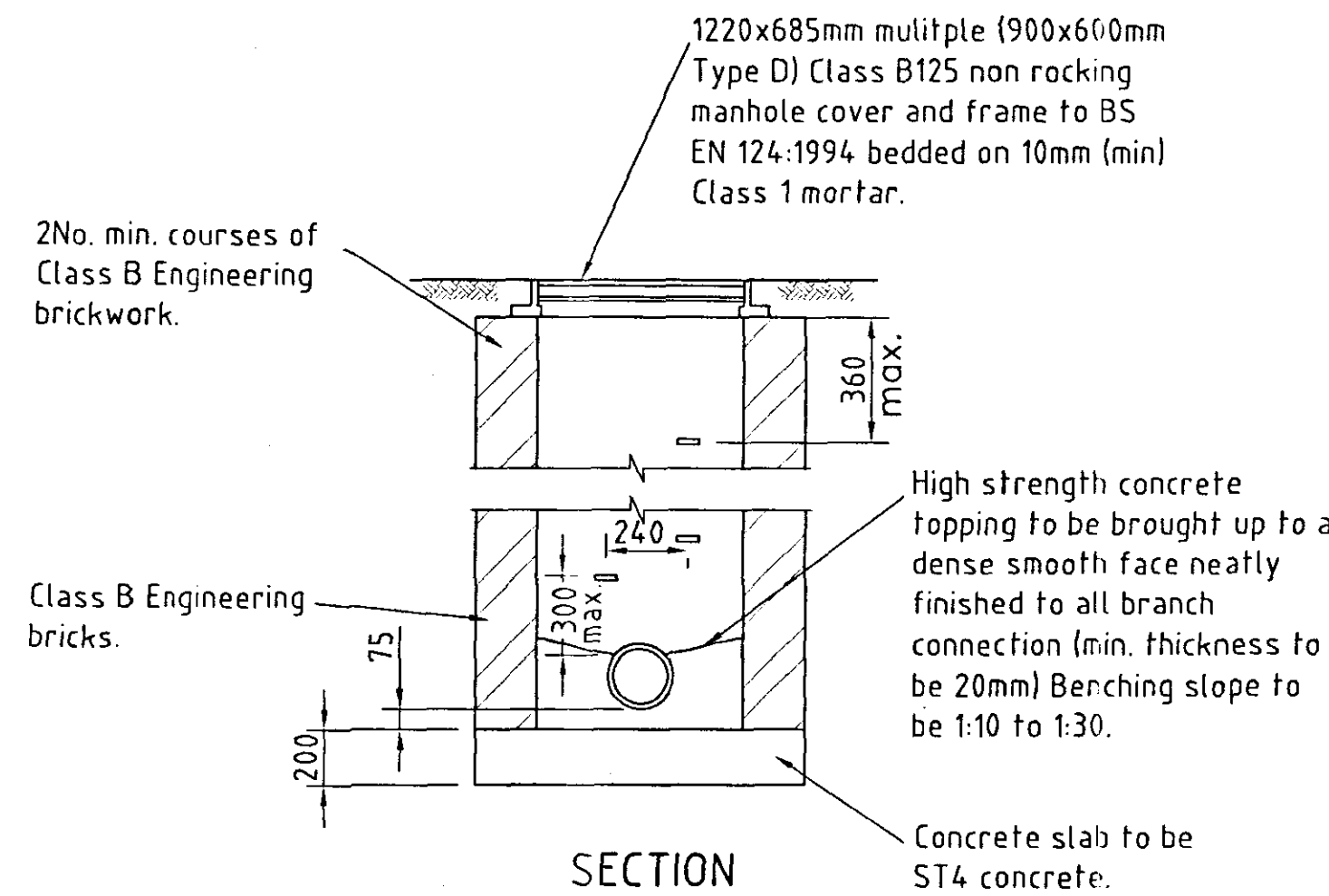
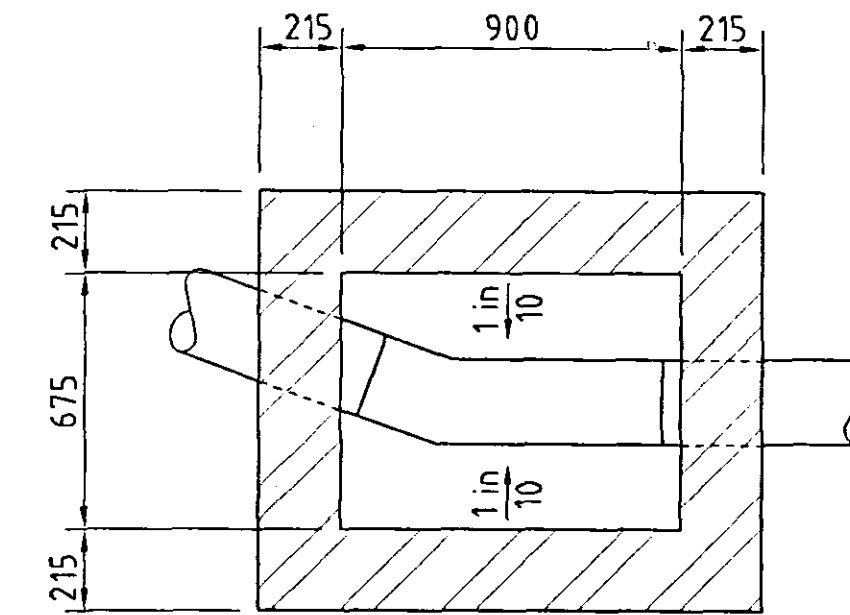




All pipes leaving or entering manholes shall have a flexible joint within 600mm of the inside face of the manhole. The next pipe shall be a short "rocker pipe".



TYPICAL MANHOLE DETAIL - TYPE D
1:20

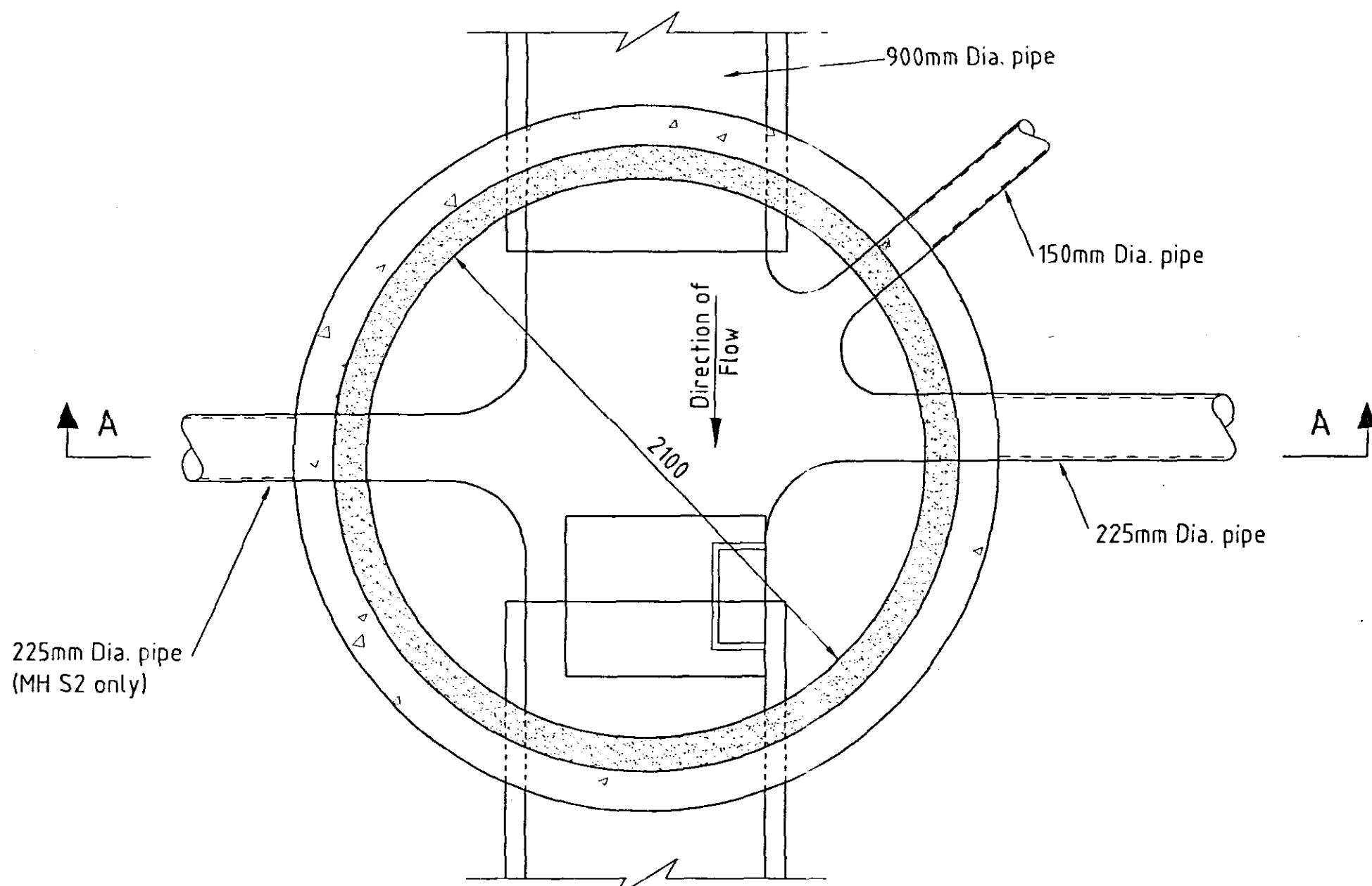


PLAN

All pipes leaving or entering manholes shall have a flexible joint within 600mm of the inside face of the manhole. The next pipe shall be a short "rocker pipe" with length as table below.

ROCKER PIPES	
Sewer Ø (mm)	Effective length (mm)
150 to 600	600
675 to 750	1000
825 and above	1250

SECTION A-A
1:20



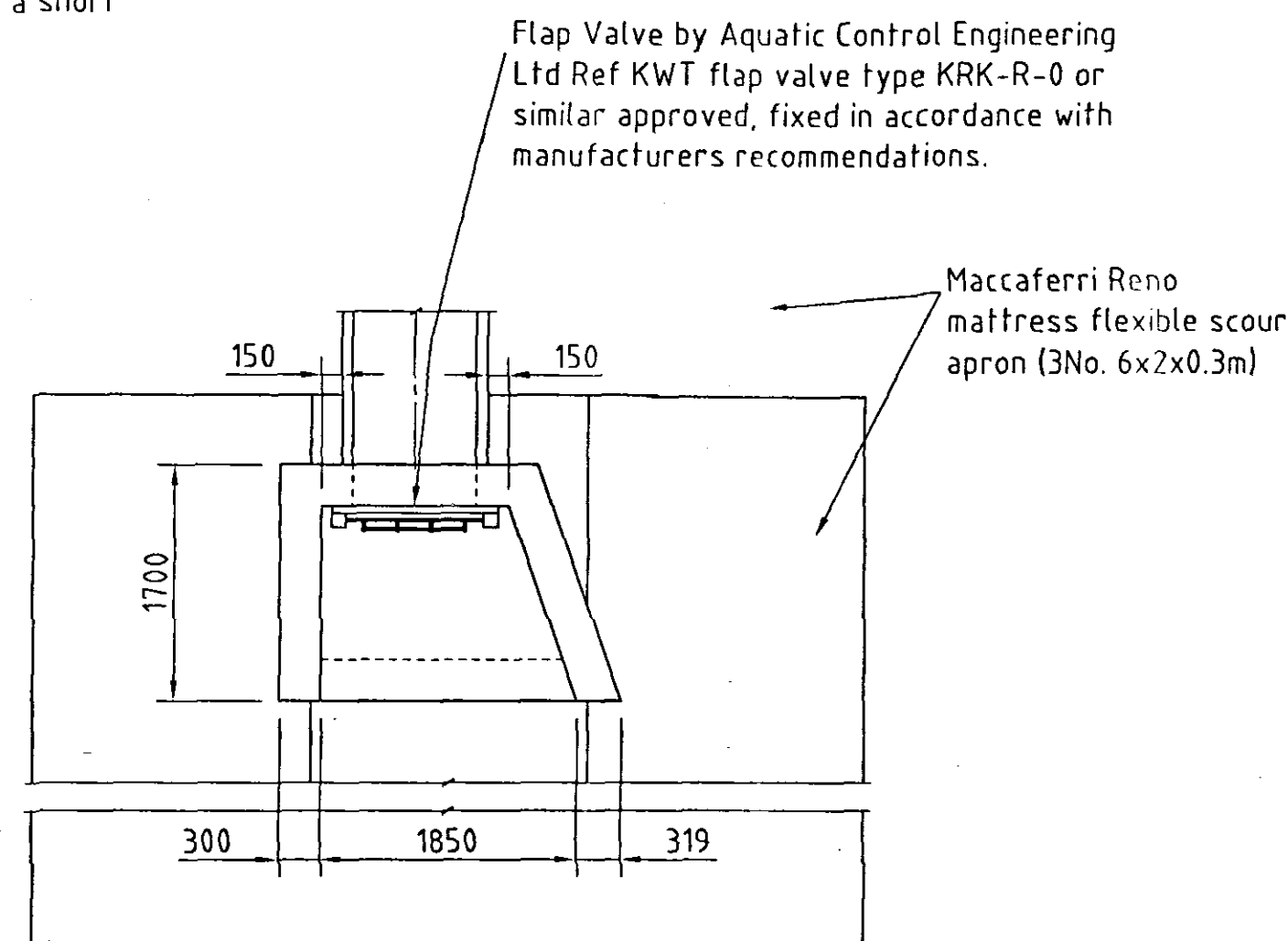
MANHOLE CHAMBER S2

(MANHOLE CHAMBER S3 SIMILAR EXCEPT FOR 900mm DIA. PIPE INLET AND 1220x600mm CULVERT OUTLET)

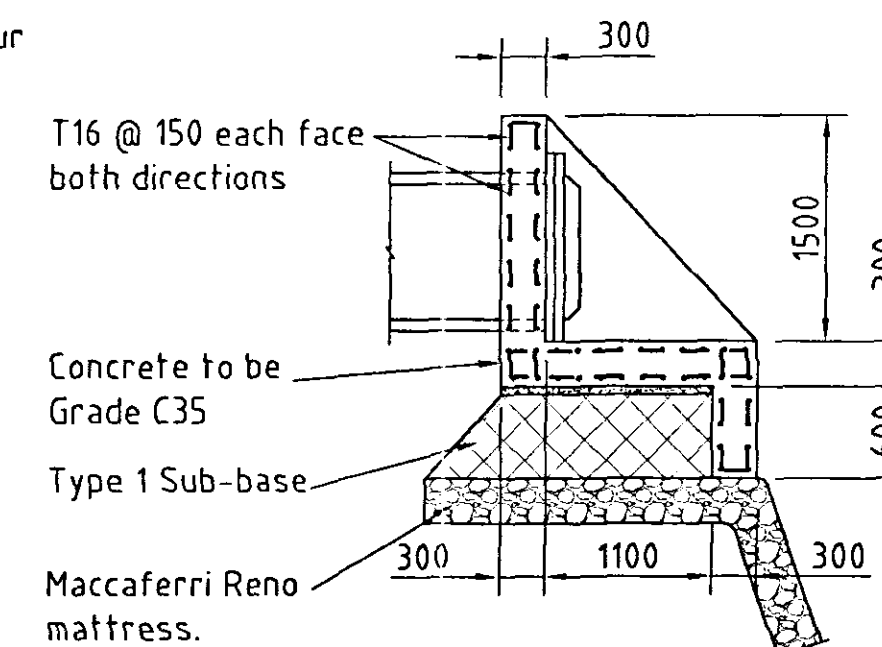
1:20

Notes:- for Type 1 Chamber

- Toe holes to be provided where depth of benching exceeds 450mm.
- Safety chains to be provided where sewer width exceeds 600mm, safety chain to be mild steel chain of 8mm nominal size Grade M(4) non-calibrated chain, Type 1 complying with BS 4942: Part 2 and shall be hot dip galvanised in accordance with BS EN 150/460.
- Anchor bolts for fixing of safety chains shall be stainless steel.
- Grade D400 covers and frames shall be used at all locations.
- Precast concrete chamber sections and cover slabs to be bedded with a 10mm uncompressed thickness of approved sealant.
- Construction joints in the concrete surround must not coincide with joints in p.c. chamber rings.
- The benching is to be formed to direct flow from side connections into main flow.



HEADWALL & FLAP VALVE DETAILS
1:50



NOTE

The critical factors for stone fill are:

- It must be hard and durable

and

- It should not be less than the mesh size.

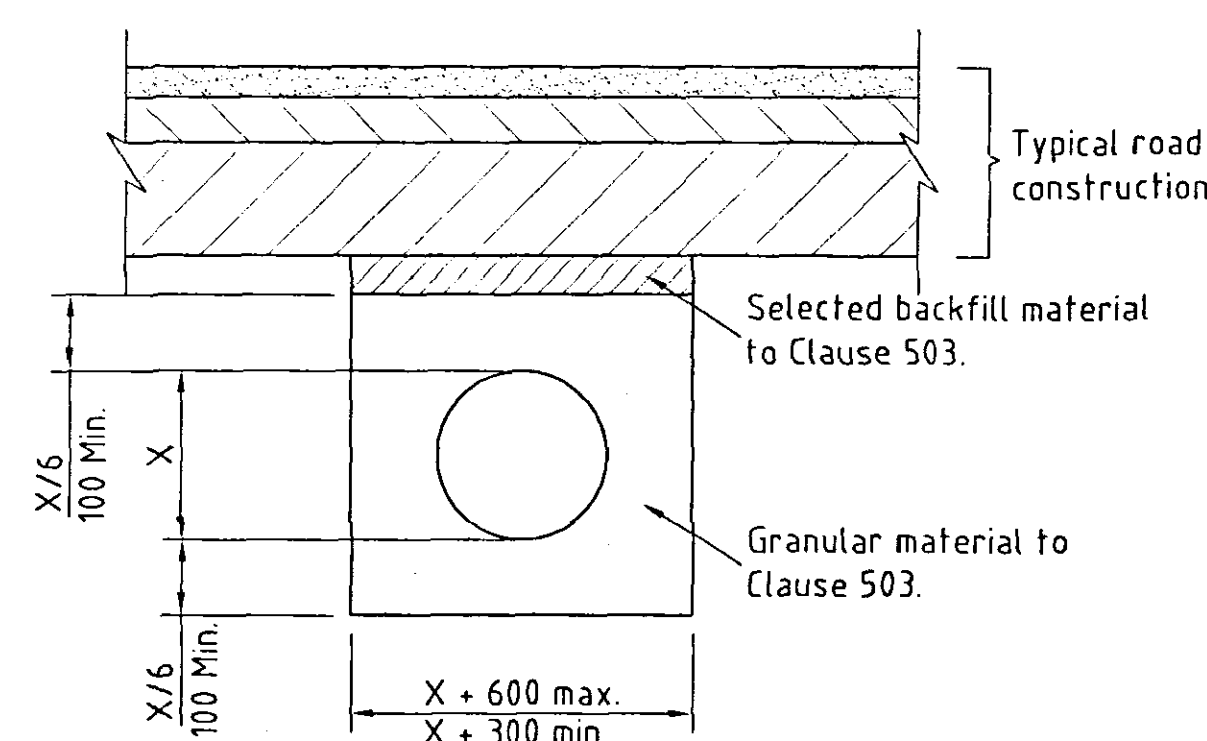
In order to achieve dense compartments the size of voids should be minimised by using a well graded stone and avoiding stones greater than 200mm. The use of material of high specific gravity is recommended.

For box gabions and 300mm deep mattresses with a nominal mesh size of 80mm, and ideal stone size is 100mm to 150mm. On non marine structures a tolerance of 5% by weight of smaller stone is acceptable.

Where the correct size is difficult to obtain, the core can be filled with smaller material.

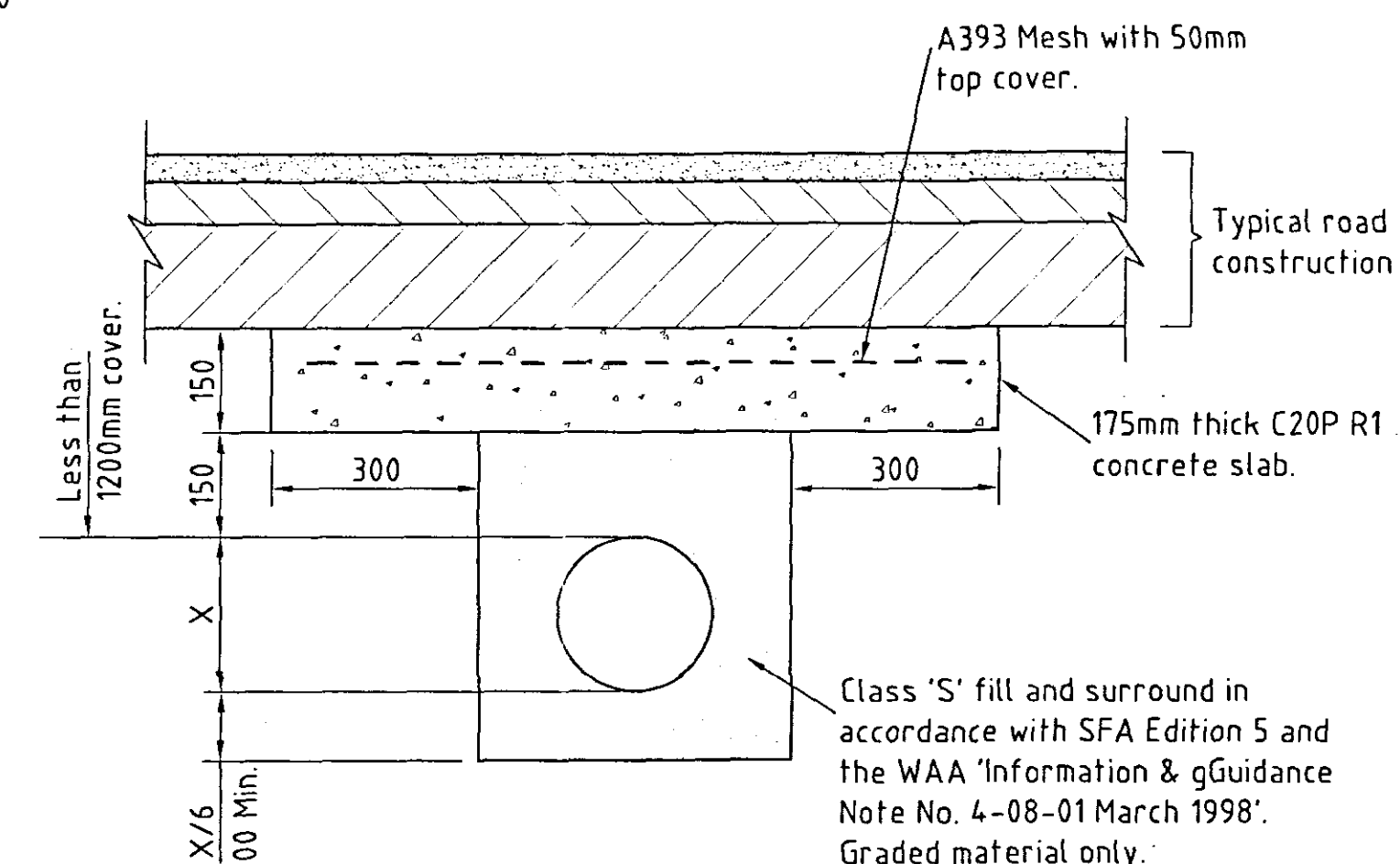
For 170mm and 230mm deep mattresses with a nominal 60mm mesh size a typical grading would be 75mm to 100mm. The maximum size should never be greater than two thirds of the mattress depth.

The DTp Specification of Highway Works, gabion filling is cover by Class 6G material complying with Table 6/1 with the size in steps of 25mm being stated in the standard item description.



TYPICAL PIPE TRENCH DETAIL
(CLASS S BEDDING)

1:10



CONCRETE PIPE PROTECTION DETAIL

Carriageway - Less than 1200mm cover
Open Space - Less than 900mm cover
1:10

0082/06

A	REVISED IN ACCORDANCE WITH A.W. & E.A. REQUIREMENTS	11.11.05
Ref.	Amendment	Ch'kd Date



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Client

INTERGEN (UK) LTD **DETERMINED PLAN**

Scheme Title
**SPALDING ENERGY PROJECT
840 MW COMBINED CYCLE PLANT**

Drawing Title
**SOUTHERN DEVELOPMENT AREA
PROPOSED JUNCTION
CONSTRUCTION DETAILS (3)**

Project Manager	D R HALL	Drawing Status	S278
Drawn	SA	Traced	N/A
Checked	PFC	Scale	As Shown @ A1
Date	30/08/05		

3878/06/06A