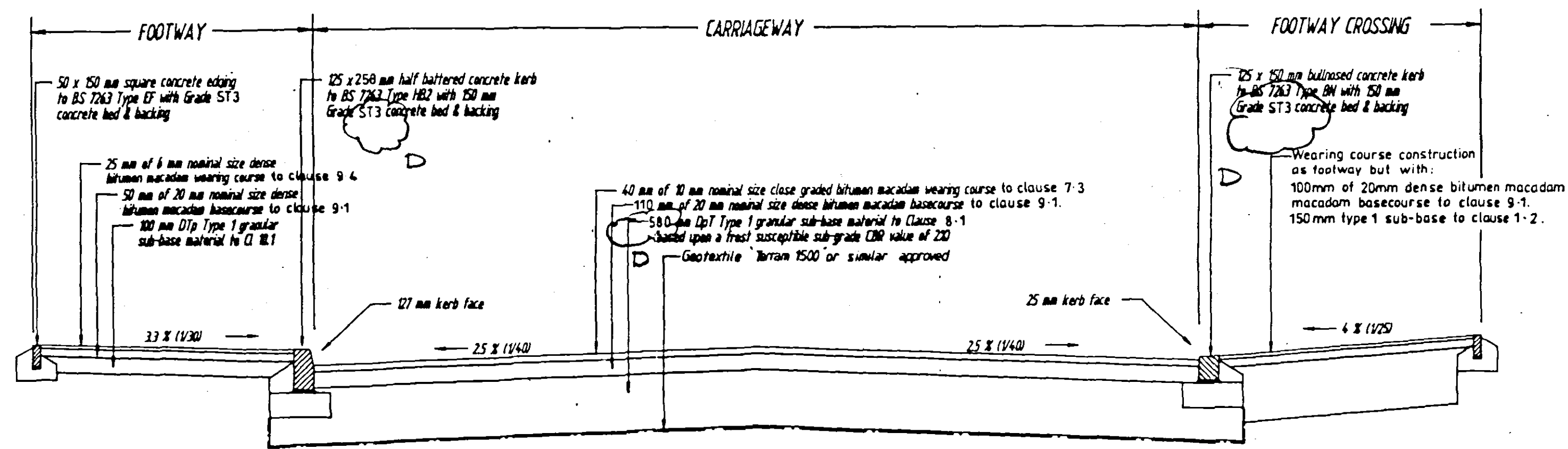
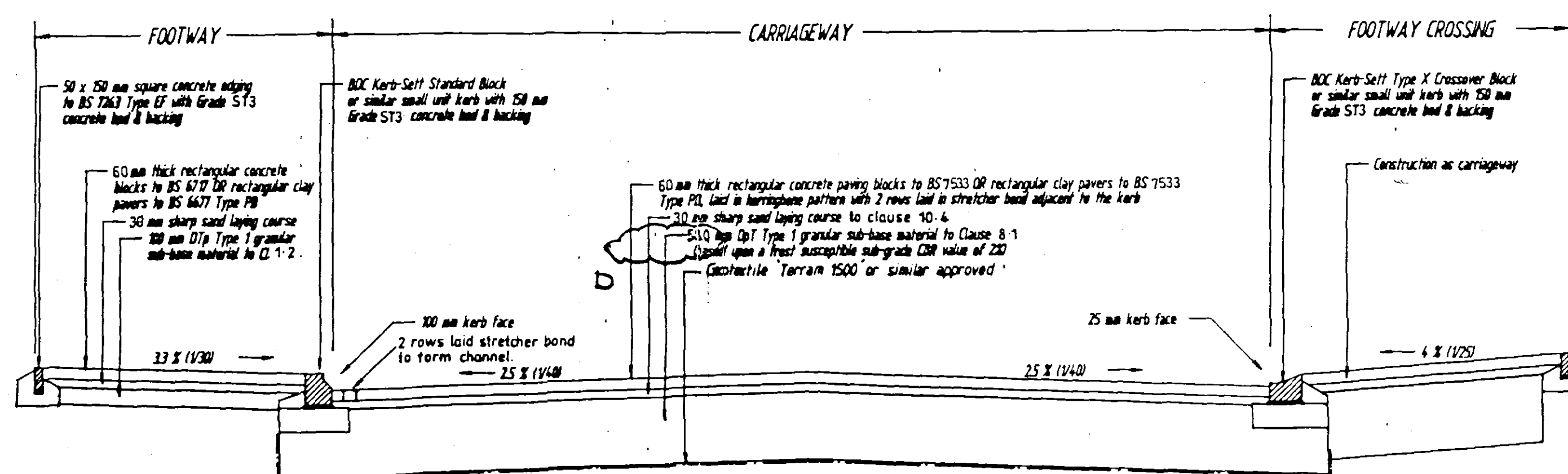




TYPICAL CROSS SECTION THROUGH BLACK TOP BELLMOUTH



TYPICAL CROSS SECTION THROUGH BLOCK PAVED ACCESS WAY

FIGURE 4
TYPICAL MANHOLE DETAIL - TYPE D
depth to soffit less than 1.00m

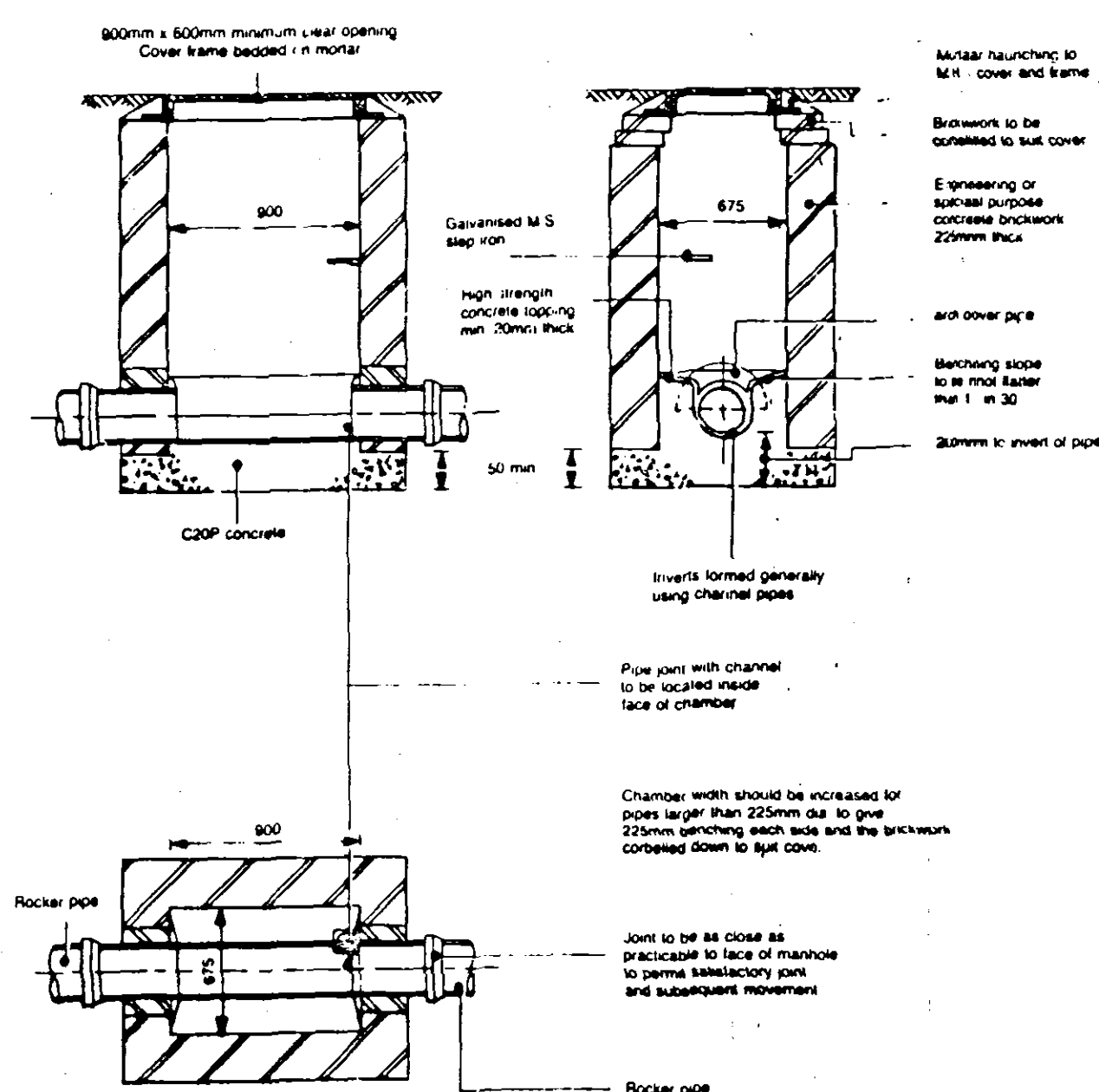
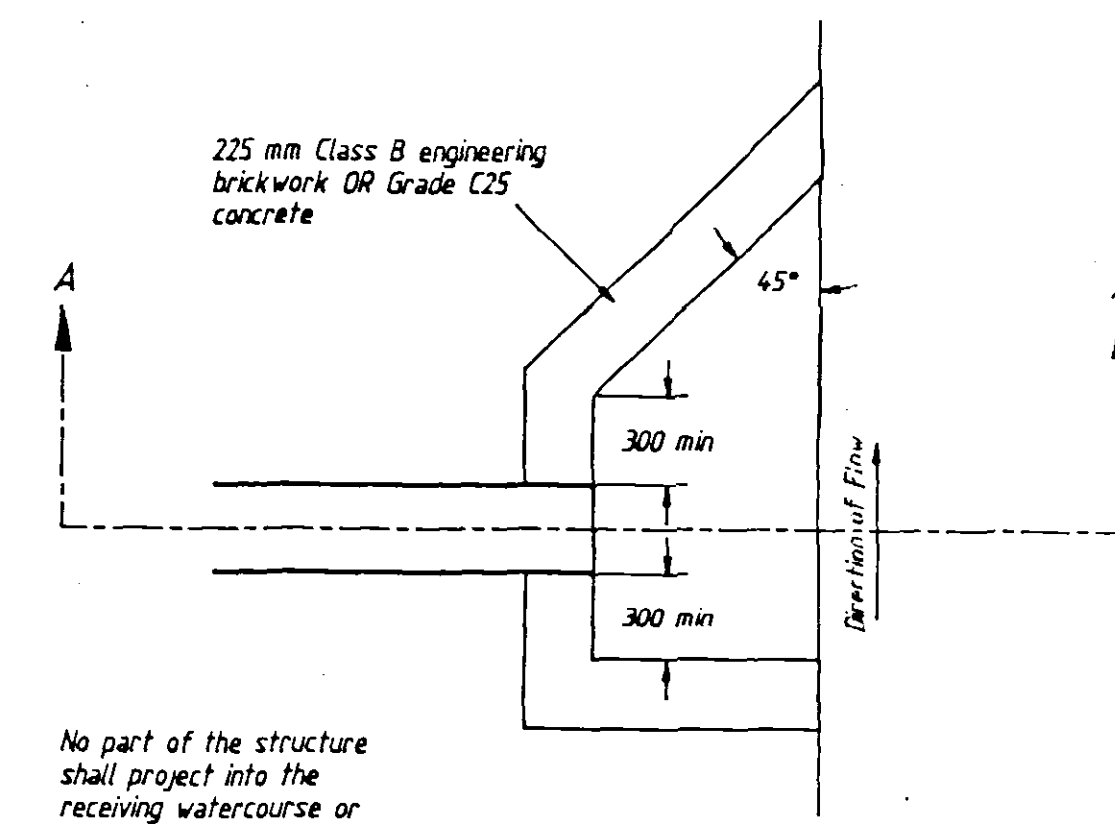
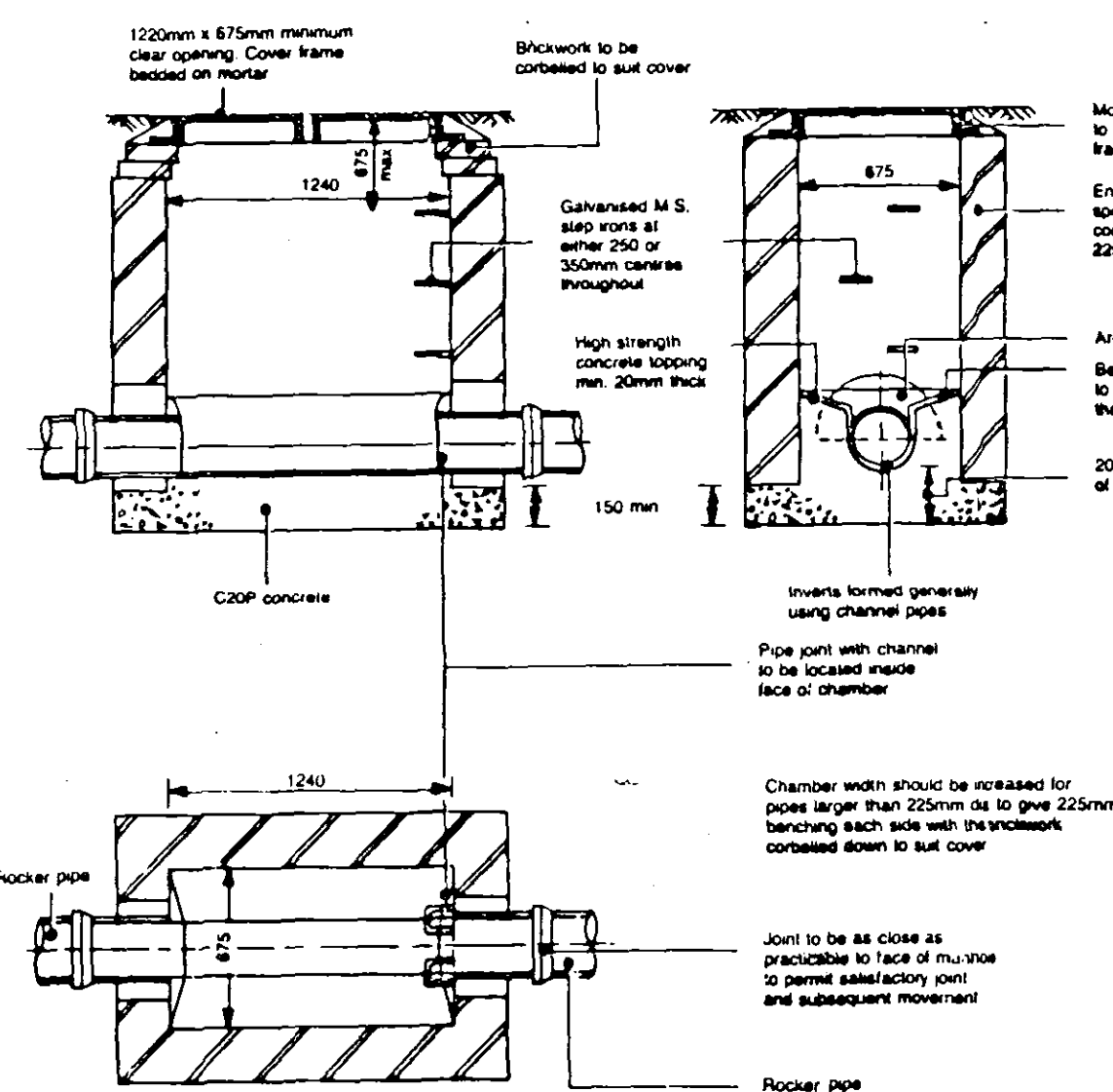
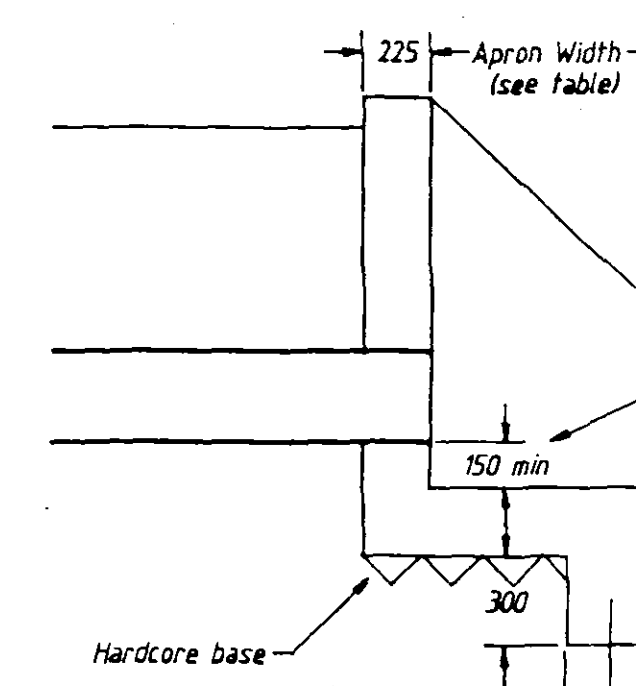


FIGURE 3
TYPICAL MANHOLE DETAIL - TYPE C
depth to soffit 1.0 to 1.35m



No part of the structure shall project into the receiving watercourse or form an obstruction to the watercourse when in flood

PLAN



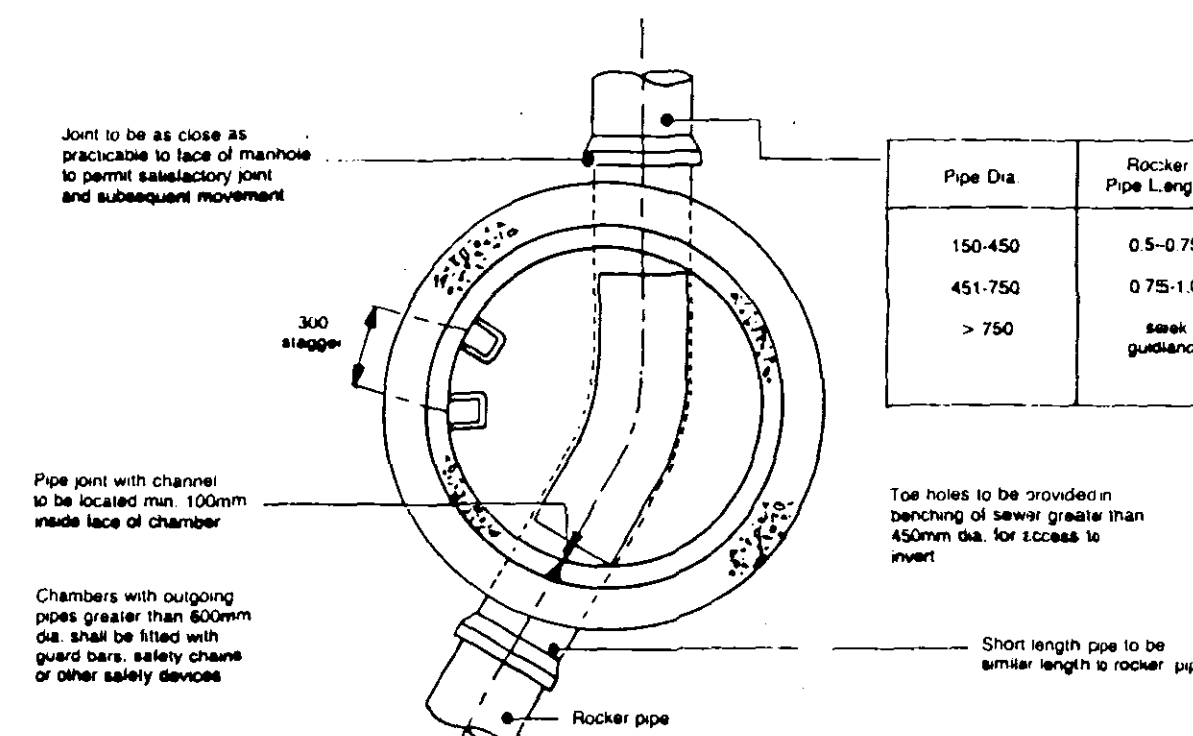
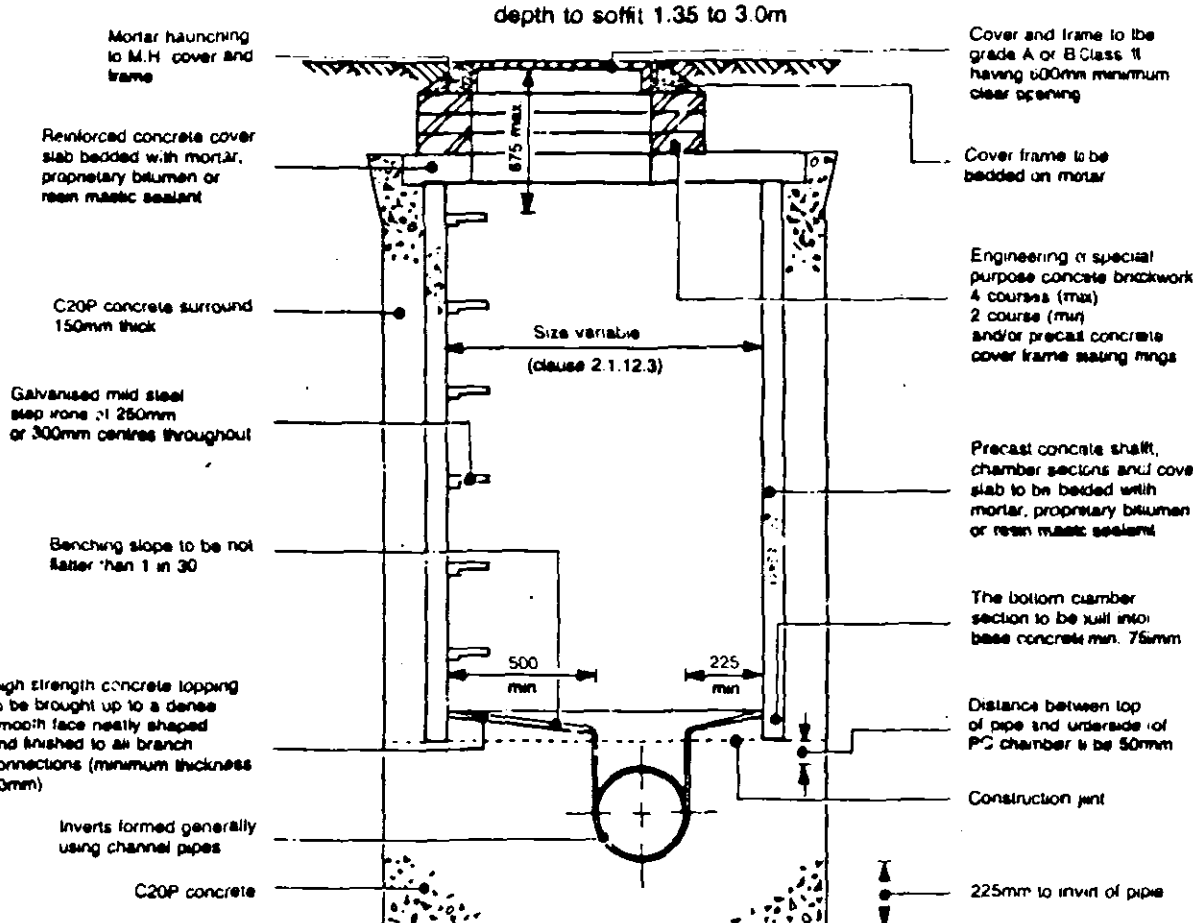
Pipe Diameter	Apron Width
150	500
225	500
300	750
375	750
450	1000

If the invert of the discharge pipe is more than 225 mm above the concrete apron, a series of 225 mm wide by 150 mm deep steps will be required in addition to the apron

Sheet piling - length to be determined by site conditions

TYPICAL HEADWALL DETAIL

FIGURE 2
TYPICAL MANHOLE DETAIL - TYPE B
depth to soffit 1.35 to 3.0m



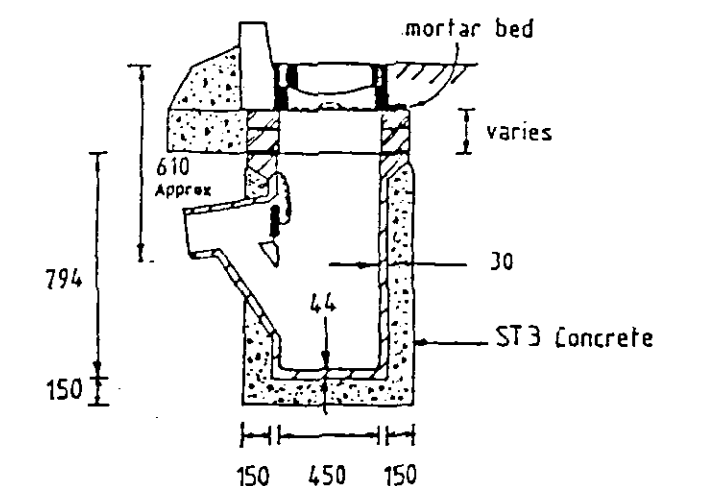
The safety policy of individual sewerage undertakers may require a larger minimum clear opening into manholes and the fitting of guard bars, safety chains or other safety devices in manholes with outgoing pipes of less than 800mm dia.

This drawing to be read in conjunction with the following documents from which the details have been derived:

Lincolnshire County Council "Lincolnshire Design Guide For Residential Areas", 1996.

Lincolnshire County Council "Development Road Specification and Construction", 1999.

The specification in all respects shall be the current "Lincolnshire Design Guide For Residential Areas" and "Development Road Specification" publications in force in the County at the time of construction.



Type G5
Trapped Road Gully

- 1) Cover and frame uncoated iron to Clause 5.9.4.
- 2) Mortar bed & benching to Clause 15.
- 3) Bricks to be Class B engineering bricks to BS 3921 (single course where necessary to obtain satisfactory fall). Corbelled if required. Frames to be bricked on four sides.
- 4) Insitu ST3 concrete
- 5) Position of out let pipe varies in plan
- 6) Insitu ST3 concrete 150mm thick surround to outlet pipe for first one metre under verge or total length if under carriageway.
- 7) Where grating is to be trafficked or laid against within 24 hours of frame being placed in position, then a suitable ultra rapid hardening mortar and concrete (Monoset 241 or similar) shall be used to bed cover and frame.

U	
F	
E	
D	03 JULY 2003 REVISIONS CLOUDED.
C	23/04/03 Generally up-dated.
B	29/07/93 Sub-base revised
A	02/06/93 Sub-base revised, Geotextile added
Revisions	
Project	
STOCKWELL GATE, WHAPLODE, LINCOLNSHIRE	
Title	
ROAD & SEWER CONSTRUCTION DETAILS	
Client	
ASHWOOD HOMES	
18 SEP 2003	
Architect	
John Finch Partnership	
Scales:	1/25 & NTS
Date:	March 1993
Drawn:	GDS
Checked:	Reinf.
Checked:	
RLT Engineering Consultants Ltd. CONSULTING STRUCTURAL & CIVIL ENGINEERS	
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Drawing No.	9112/04/10
Revision	D