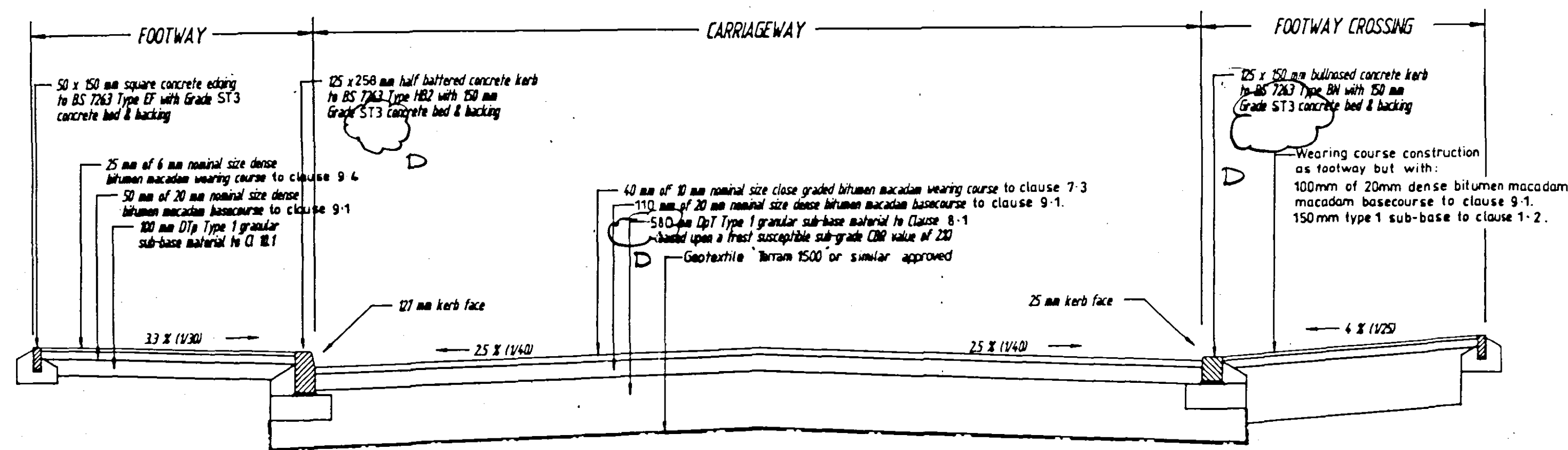
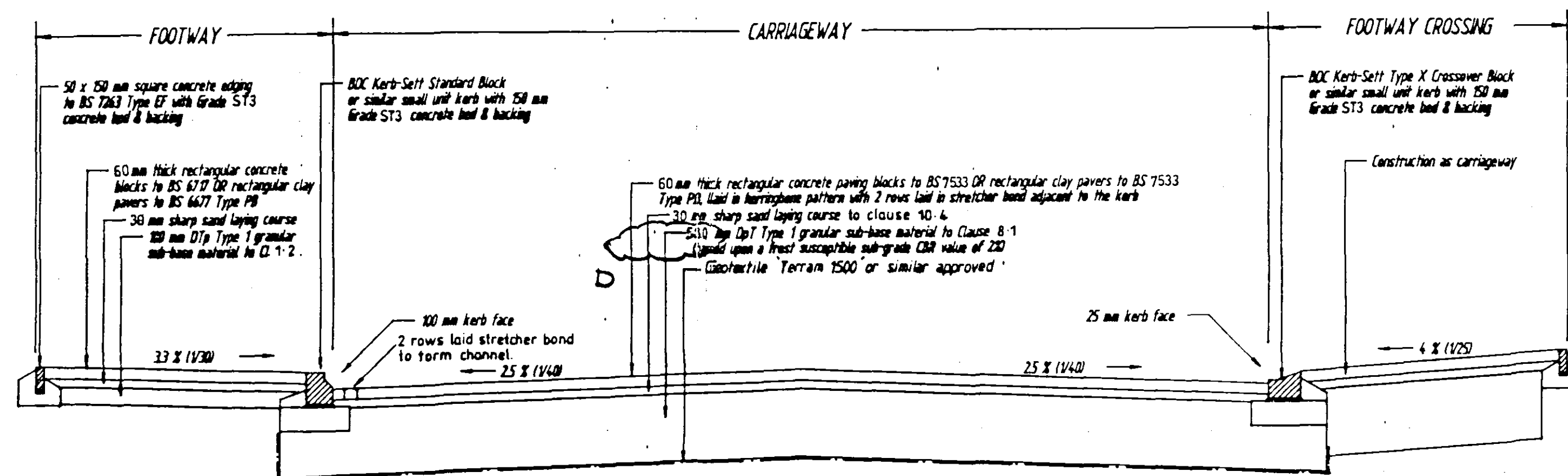




TYPICAL CROSS SECTION THROUGH BLACK TOP BELLMOUTH



TYPICAL CROSS SECTION THROUGH BLOCK PAVED ACCESS WAY

FIGURE 4  
TYPICAL MANHOLE DETAIL - TYPE D  
depth to soffit less than 1.00m  
Agreement of Council/Underaker must be given before installation of this type of manhole

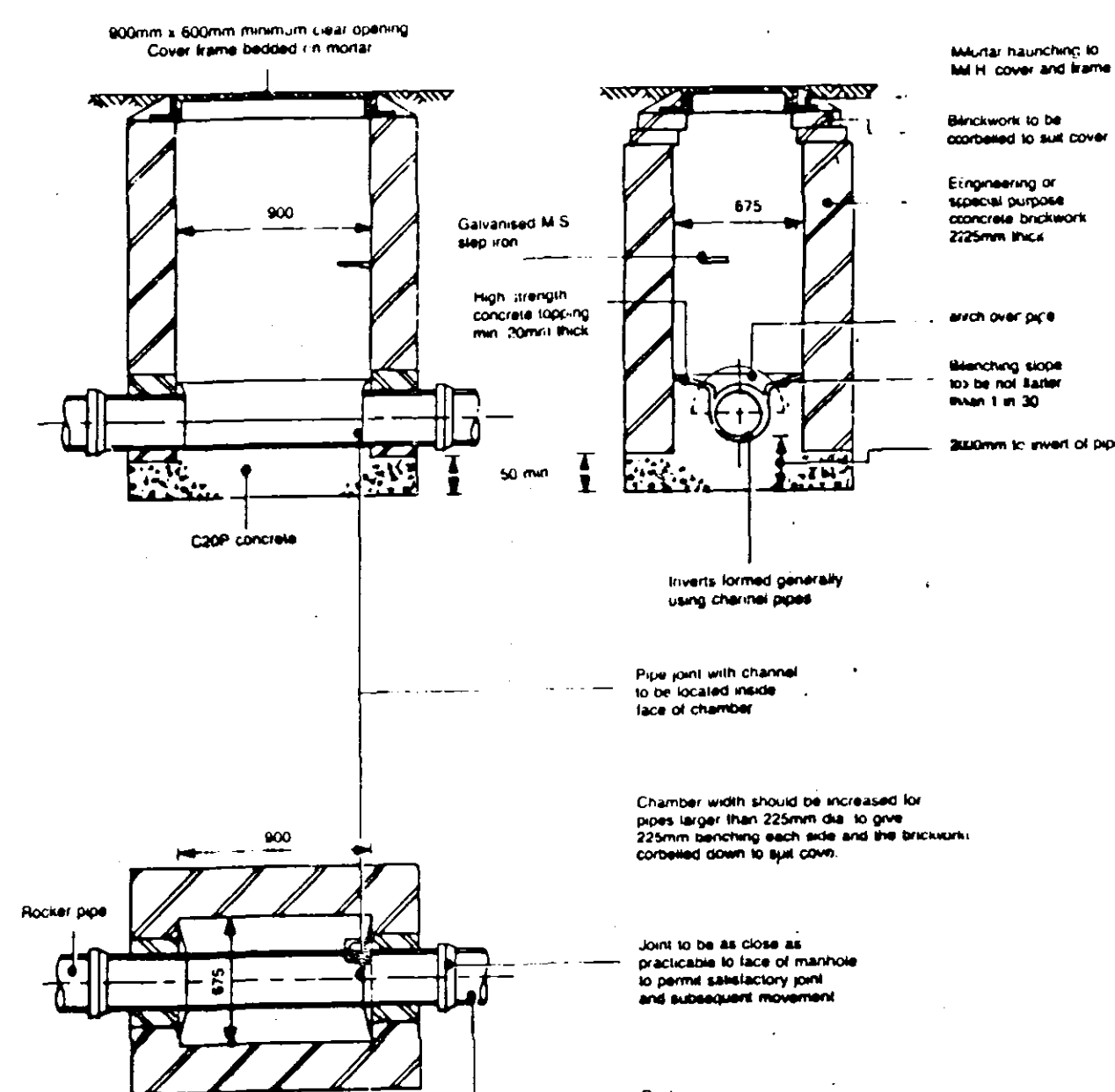
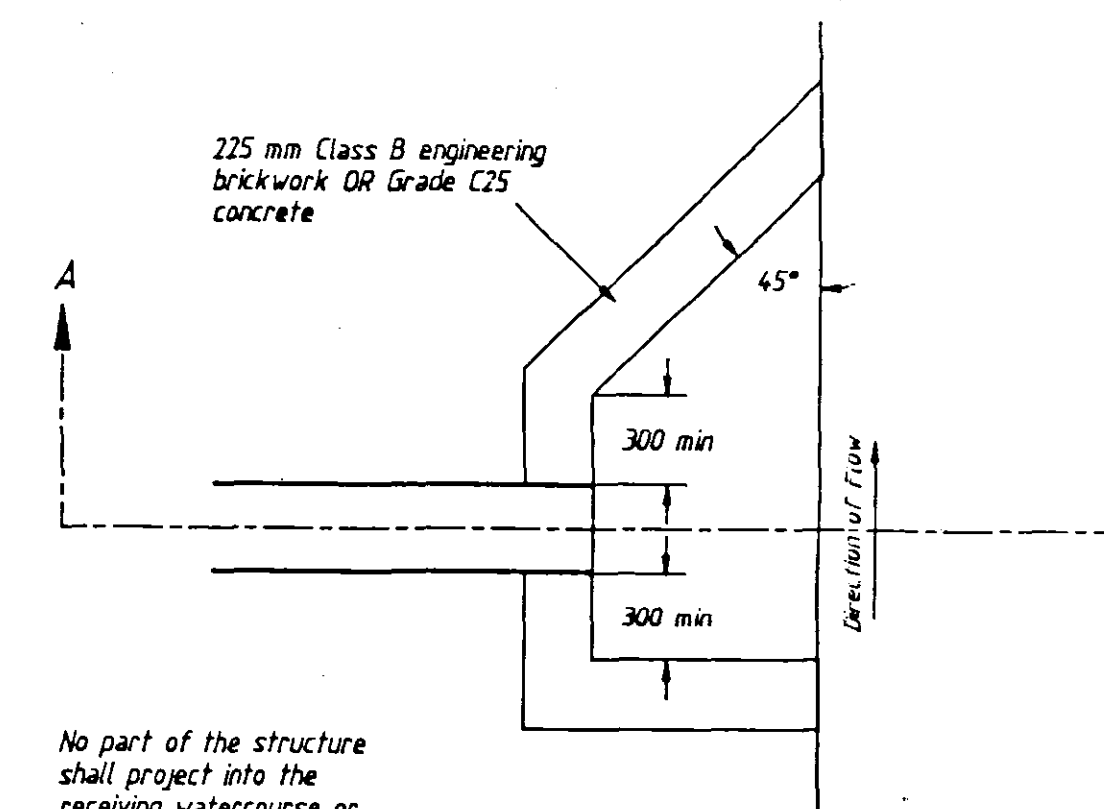
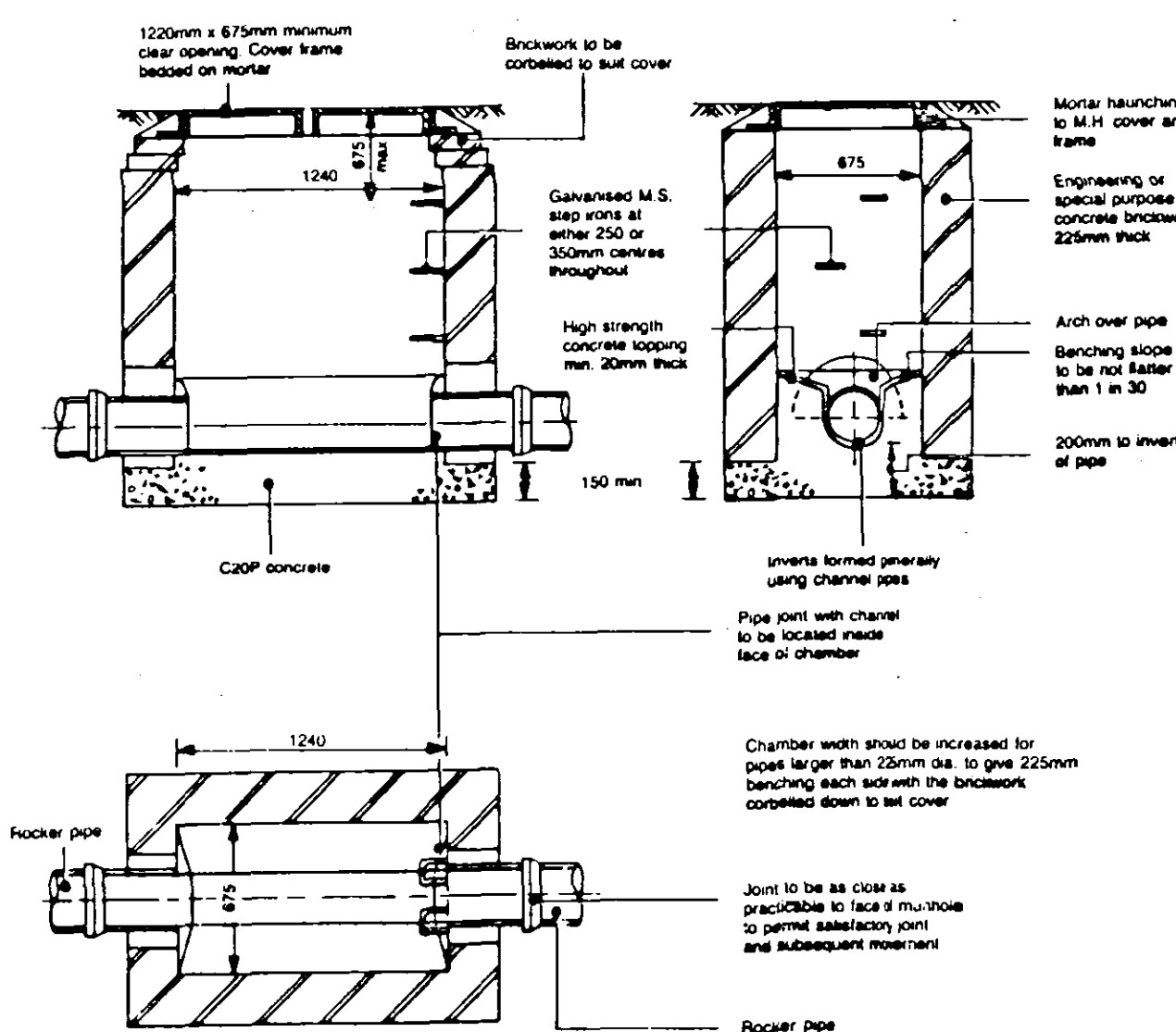
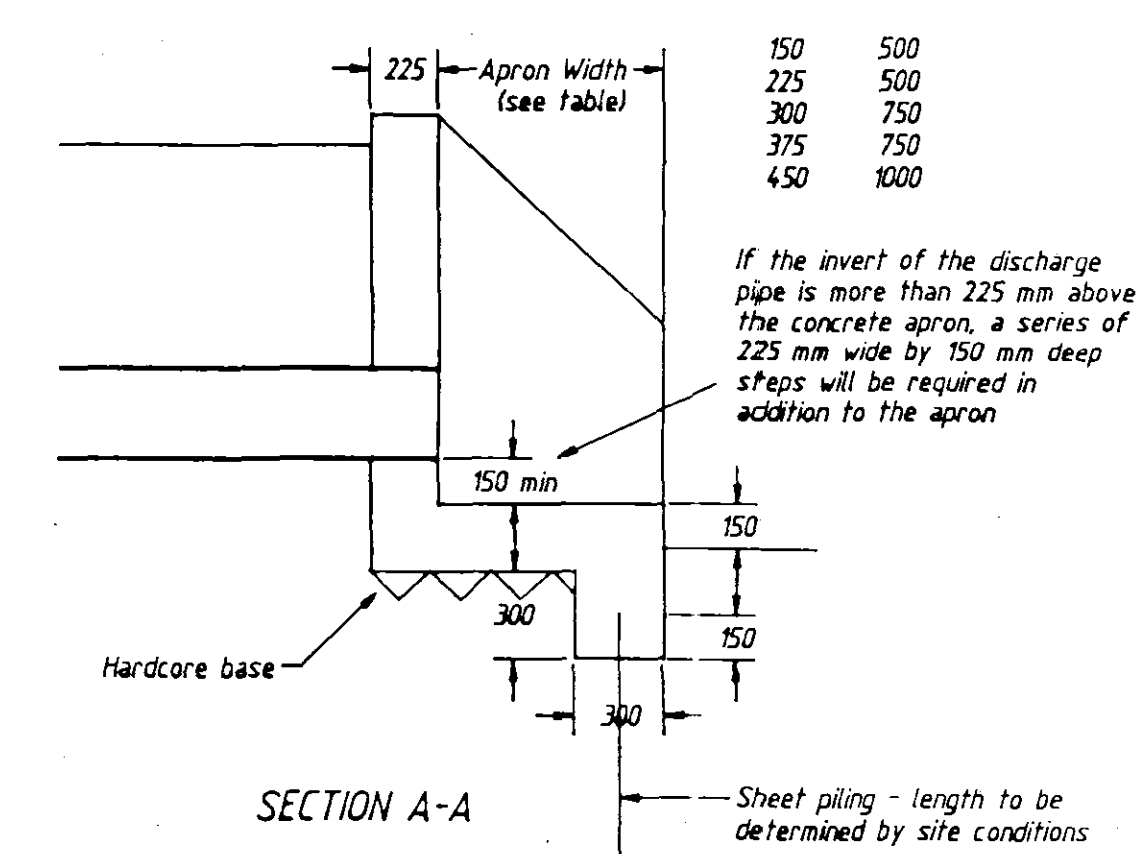


FIGURE 3  
TYPICAL MANHOLE DETAIL - TYPE C  
depth to soffit 1.0 to 1.35m



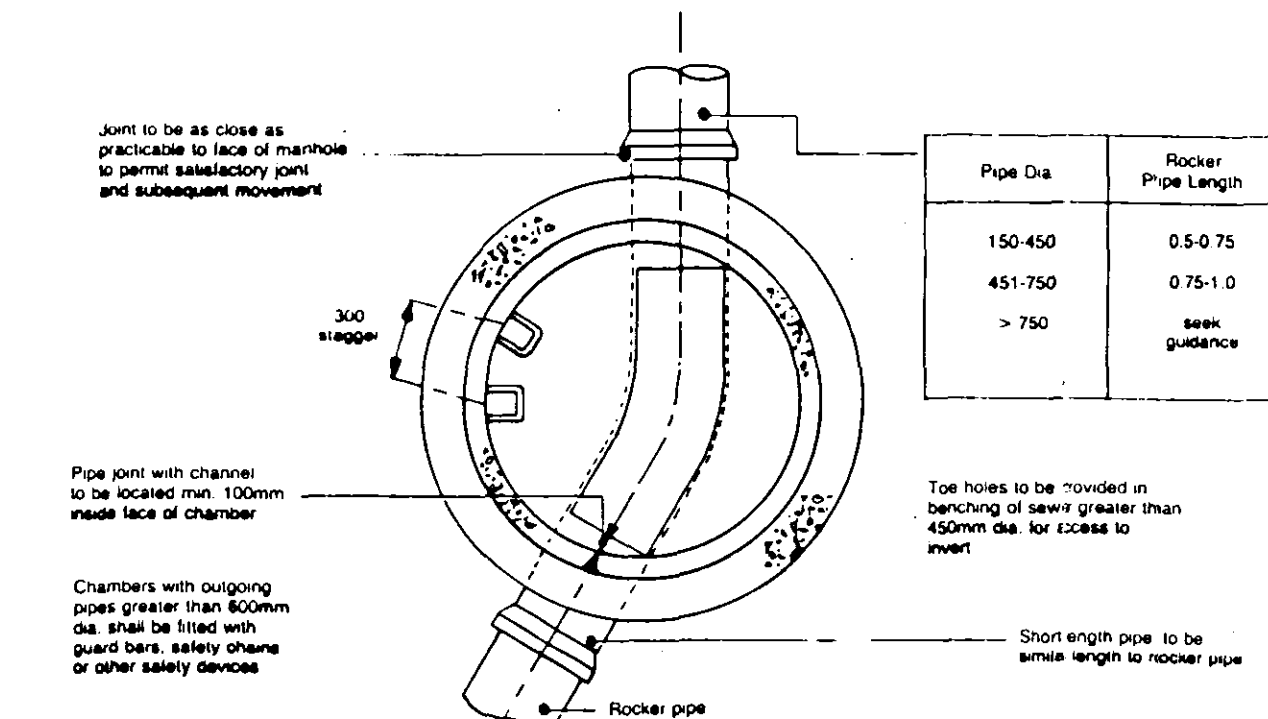
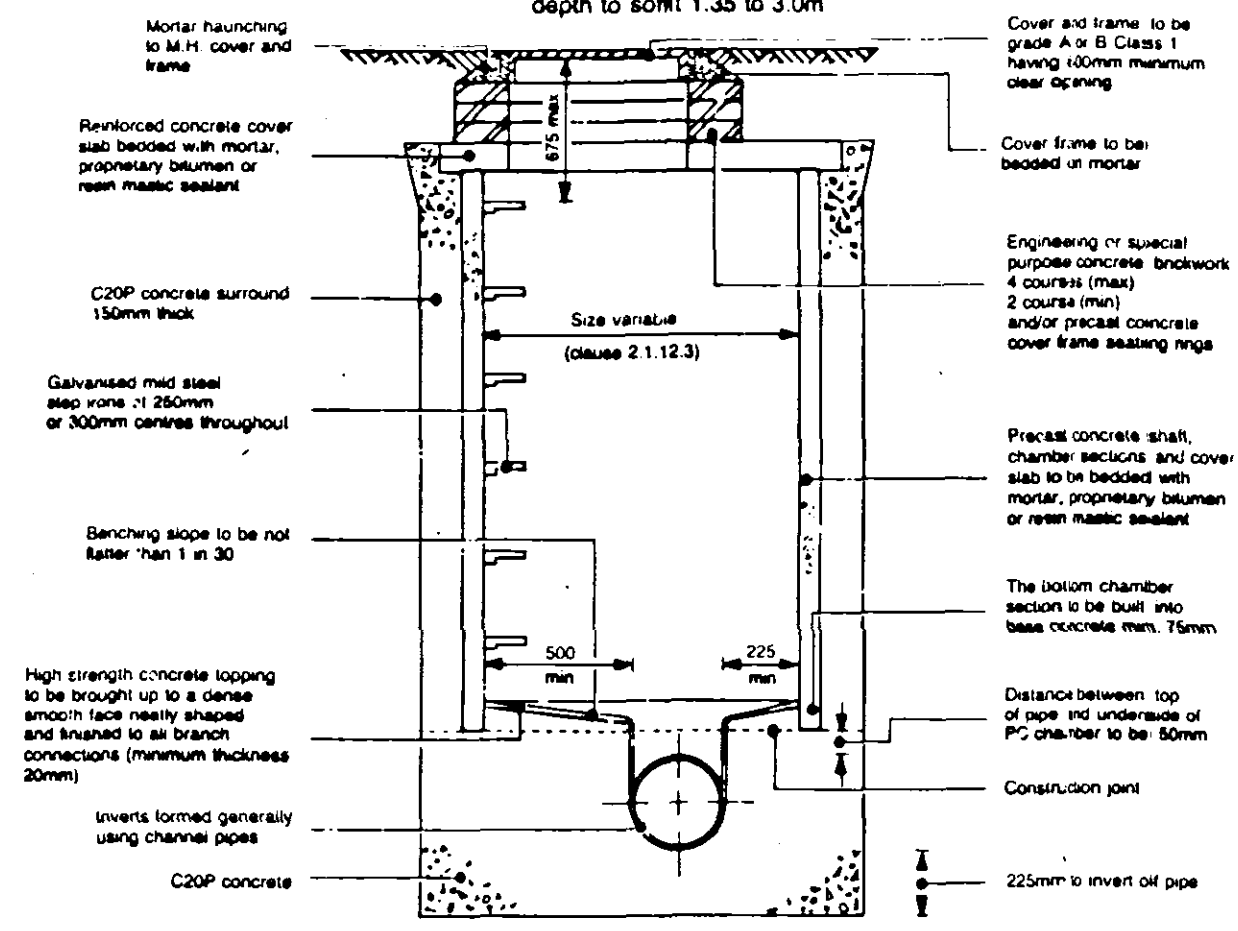
No part of the structure shall project into the receiving watercourse or form an obstruction to the watercourse when in flood

PLAN



TYPICAL HEADWALL DETAIL

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



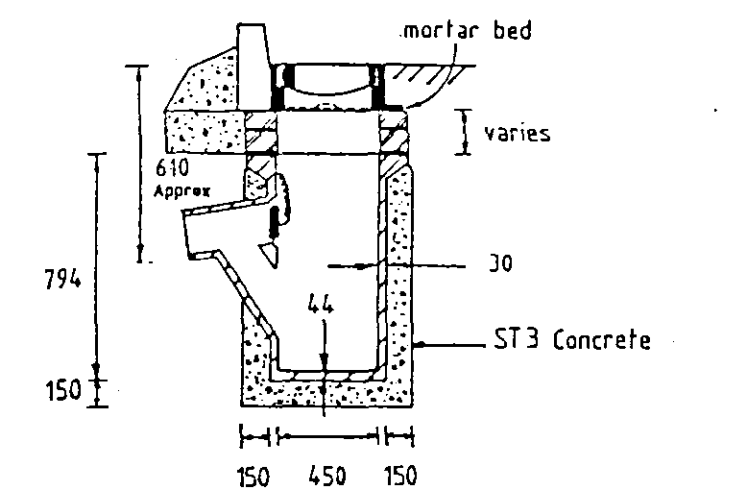
The safety policy of individual sewerage undertakers may require a larger minimum clear opening into manholes and the fitting of guard bars, safety chains or other safety devices in manholes with outgoing pipes of less than 450mm dia.

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 outlet 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.

|                                                                                             |                  |
|---------------------------------------------------------------------------------------------|------------------|
| G                                                                                           |                  |
| F                                                                                           |                  |
| E                                                                                           |                  |
| D                                                                                           | 23/04/03         |
| C                                                                                           | 23/04/03         |
| B                                                                                           | 29/07/93         |
| A                                                                                           | 02/06/93         |
| Revisions                                                                                   |                  |
| Project                                                                                     |                  |
| STOCKWELL GATE, WHAPLODE, LINCOLNSHIRE                                                      |                  |
| Title                                                                                       |                  |
| ROAD & SEWER CONSTRUCTION DETAILS                                                           |                  |
| Client                                                                                      |                  |
| ASHWOOD HOMES                                                                               |                  |
| Architect                                                                                   |                  |
| John Finch Partnership                                                                      |                  |
| Scale: 1/25 & NTS                                                                           | Date: March 1993 |
| Drawn: GDS                                                                                  | Checked: Reinf.  |
| RLT Engineering Consultants Ltd.<br>CONSULTING STRUCTURAL & CIVIL ENGINEERS                 |                  |
| RLT House 5 Oxford Road Colchester Essex CO3 3HN<br>Telephone: 0206 768655 Fax: 0206 768656 |                  |
| Drawing No. 9112/04/10                                                                      | Revision D       |