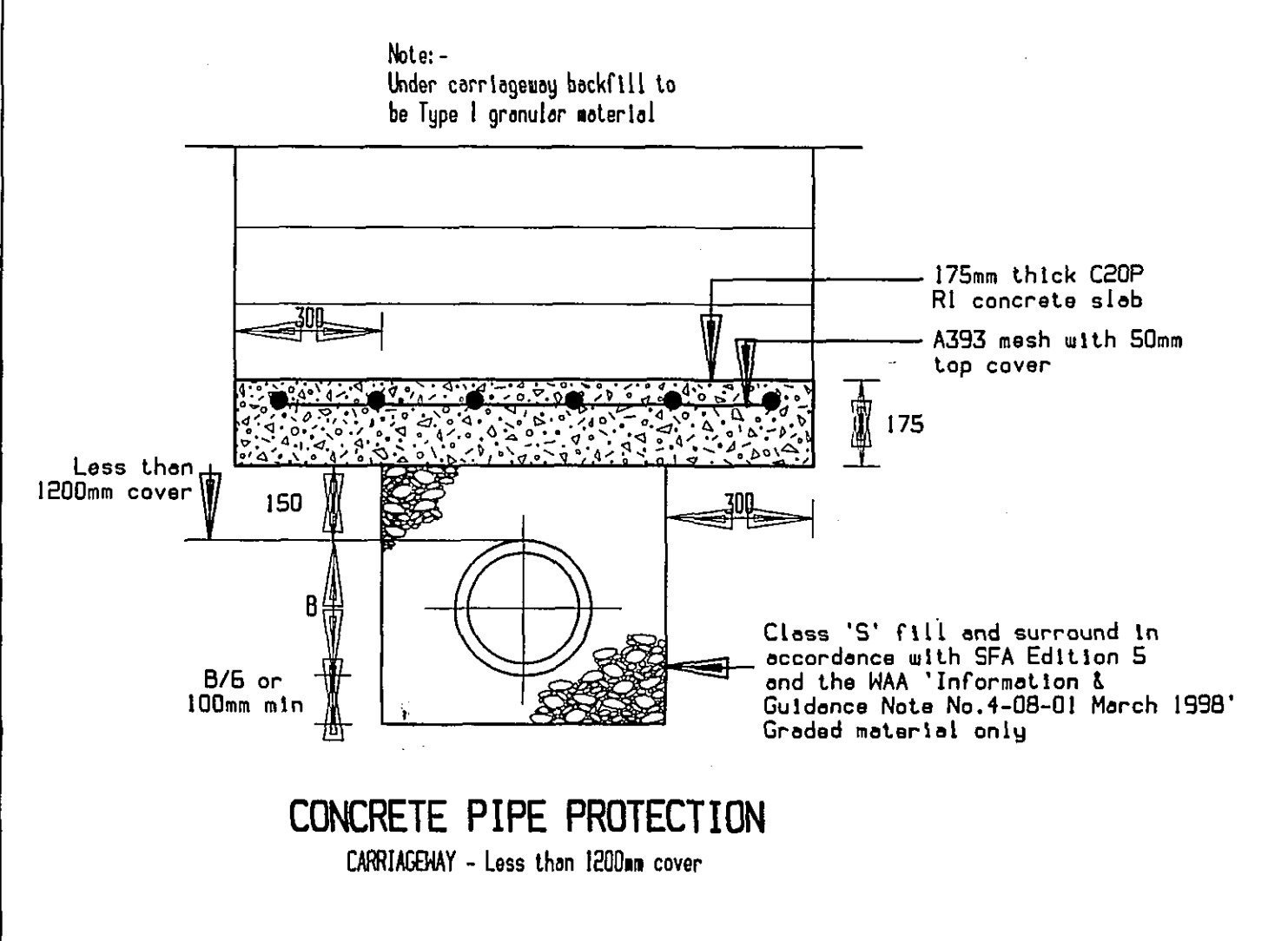
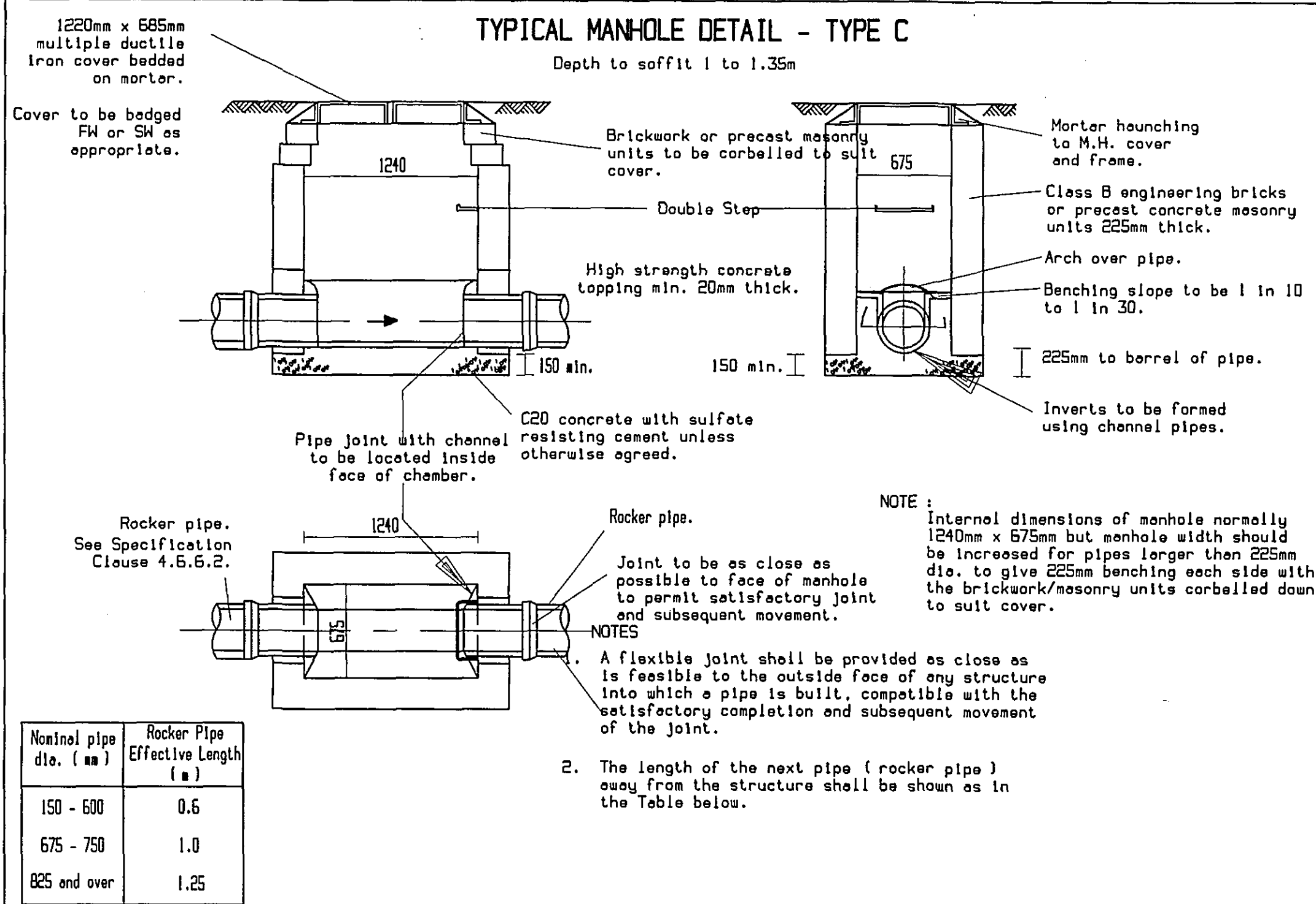




ADDITIONAL NOTES

All works to comply with Building Regulations 2000 Approved Document N 2008 Edition

Private drains connections to adoptable sewers to be clayware pipes. Resin pipe drains to be 110mm dia. U.P.V.C. or 100mm clayware unless stated.

Private sewers serving more than 10 dwellings to be 150mm dia

All pipe chambers and fittings to be installed, bedded and backfilled in accordance with the manufacturers instructions.

Private drains and sewers which pass adjacent to building foundations to be constructed in accordance with Part M.1.1. of the Building Regulations.

All private drains to incorporate preformed inspection and shallow access chambers where possible.

Traditional chambers (private) to be constructed using precast concrete sections with 150mm concrete surround.

Depth to I.L.

Min. chamber size (internal)
0.6m or less 225mm x 100mm or 190mm dia
0.9m or less 450mm x 450mm (normally a preformed chamber, 450mm dia)
1.2m or less 450 x 450mm (normally a preformed chamber, 450mm dia)
1.5m or less 1200mm x 675mm or 1200mm dia. (pipe up to 225mm dia only)
Over 1.5m 1200mm x 1000mm or 1200mm dia. (pipe up to 225mm dia only)

Rainwater downpipes to be connected directly to surface water drain via 68/110mm adaptors, removable to allow for rodding.

Position of yard gullies shown in garage drives are nominal only and may be adjusted on site.

All drains in the vicinity of proposed trees to be constructed in accordance with the requirements of current N.H.B.C. standards.

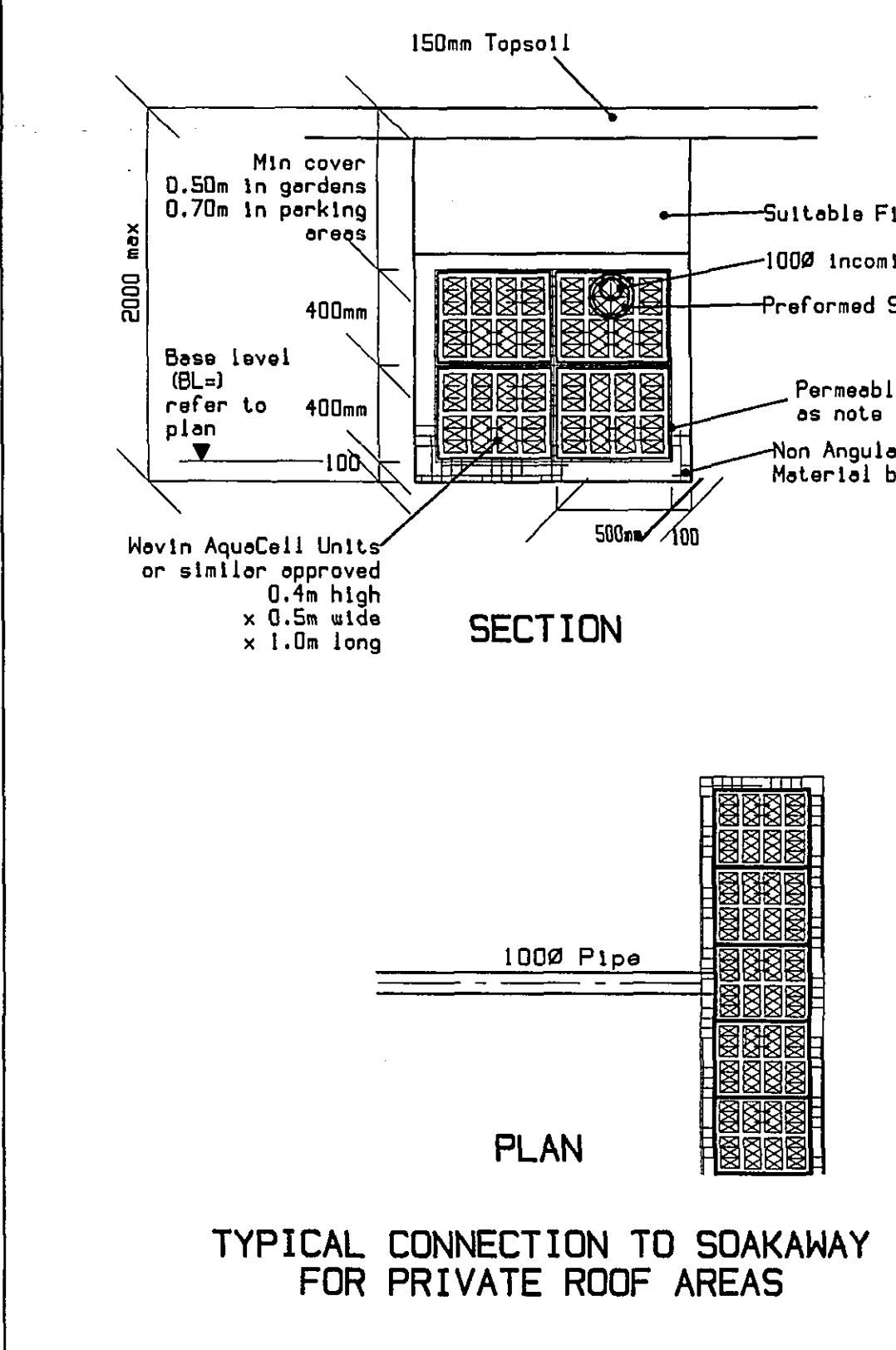
All back inlet gullies to be roddable.

ADDITIONAL DRAINAGE LEGEND

Existing foul water sewer	---
Existing surface water sewer	---
Proposed foul water sewer (to be adopted)	---
Proposed surface water sewer (to be adopted)	---
Proposed backdrop (on adopted sewer)	---
Proposed trapped road gully (150mm outlet)	---
Proposed trapped road gully (150mm outlet)	---
Proposed foul water drain	---
Proposed surface water drain	---
Proposed inspection chamber (traditional)	---
Proposed preformed inspection chamber (depth 0.9m/1.0m or less)	---
Proposed preformed inspection chamber (depth 600mm or less)	---
Proposed shallow access chamber (depth 225mm dia)	---
Proposed rodding eye	---
Proposed chamber invert level	---
Proposed trapped gully in drives	---
Suspended slab, where appropriate	---
Proposed slab level	---
Proposed sodular soakaway, 95% voids	---
Target levels to car parks	---

rep... ovp... s... w/c... sink... o... big... vent pipe... vent required at head of system

NOTE: Where drains are used they should not adversely affect the amount of ventilation necessary for the below ground system which is normally provided by the open stacks of the sanitary pipework.



DESIGN OF SOAKAWAYS

From The Wellingford Procedure, Ratio of MS-60 minutes to MS-two day rainfall: $r=0.42$ for this location. Soakage rate = 1.75×10^{-5} m/sec based on tests made by Sida-bottom Richardson Cheng Ltd January 2006.

NOTES

- Soakage through the base has been ignored.
- Edge of soakaway should not be nearer than about 5m from any building.
- Soakage rates shall be verified on site by geotechnical consultant & notified to the Engineer.
- All soakaways shall be located in clean uncontaminated ground.
- The construction method is by using prefabricated cell units with 95% voids. (Havin Aquacell or similar approved) The unit size is 1.0m long x 0.5m wide x 0.4m high.
- The Aquacell drainage units shall be installed strictly in accordance with the manufacturers instructions.
- Permeable geotextile material shall be placed around the base, sides, ends & top of the Aquacell units.

050 pore size of 0.02mm or less to prevent ingress of fines.

SHDC PLANNING & DEVELOPMENT
16 JAN 2007
Ref. 0082/07

DETERMINED PLAN

Rev. No.	REVISION	Date	Drawn	Checked

PRELIMINARY

Written dimensions to be taken. Do not scale off the drawing. Any discrepancies, written or scaled, should be brought to the attention of the Engineer immediately.

This drawing to be read in conjunction with the relevant Bills of Materials and Local Authority Specifications.

CDM NOTE: The design has been undertaken so far as possible to avoid risks to health and safety or to reduce and control the effects of any unavoidable risks.

All relevant information identifying the unavoidable risks has been passed to the planning supervisor for inclusion in the Health & Safety plan.

The Health & Safety plan will be issued by the planning supervisor with these drawings.

WORMALD, BURROWS PARTNERSHIP

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12a & 14a Hitchin Street
Biggleswade, Beds SG18 8AX, U.K. Tel 01767 317244 Fax 316434

Project: Proposed Development at:- Magellan Way, Spalding

Drawing Description: Private Drainage Layout

Client: Fieldview Homes Ltd
St Helena Cottage
145 Pinchbeck Road
Spalding
Lincs, PE11 1GN

Drawing Number: E1823/2

Drawn By: AJMB/JMW
Date: 5.12.06

Scale: 1:200

Checked By: [Signature]

Date: [Signature]