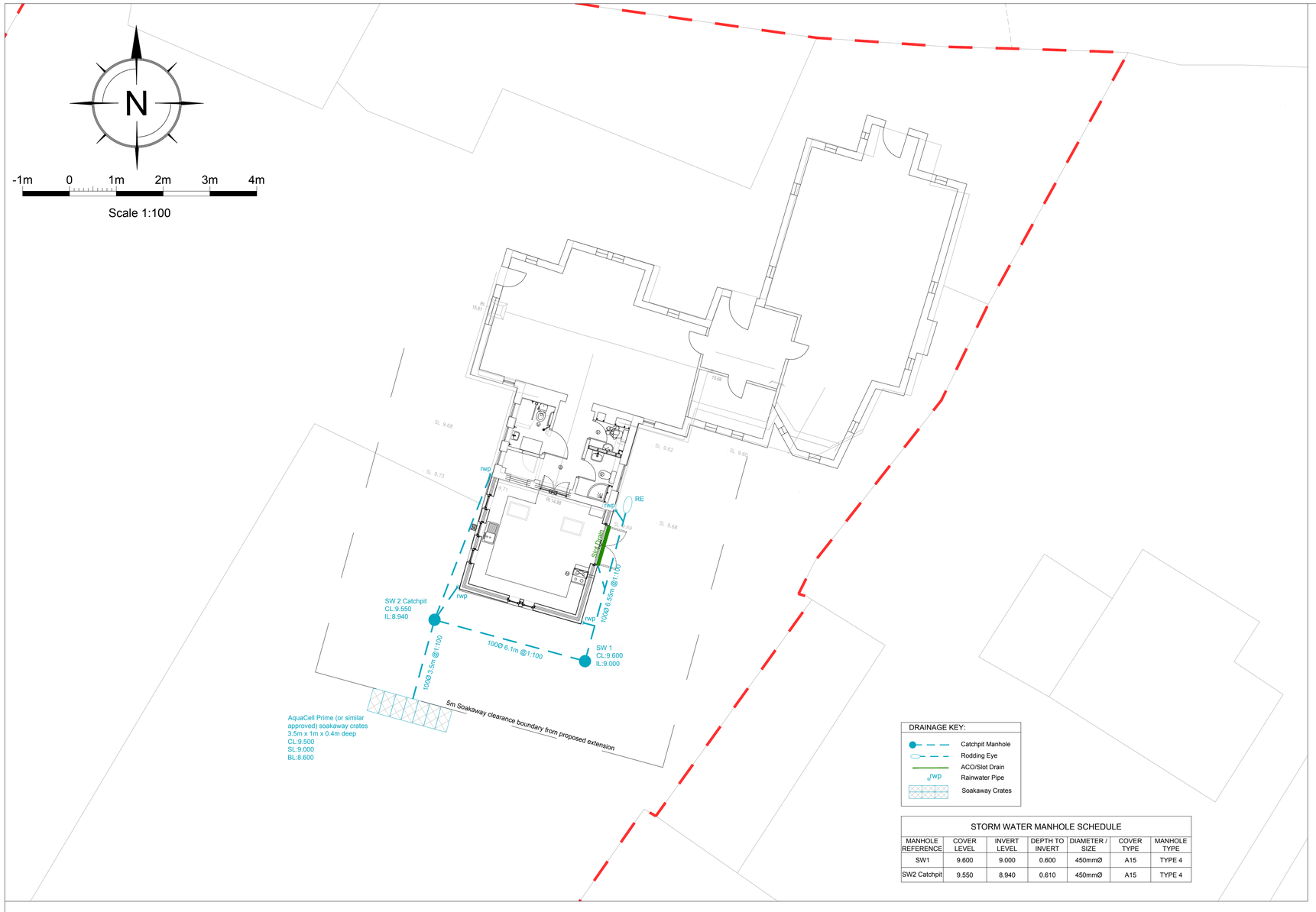


DRAINAGE KEY:

- Catchpit Manhole
- Rodding Eye
- ACO/Slot Drain
- rwp — Rainwater Pipe
- Soakaway Crates

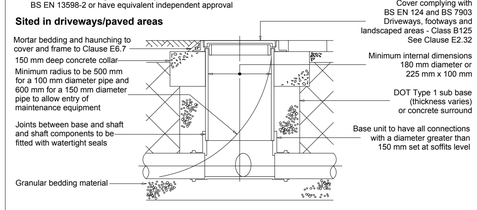
STORM WATER MANHOLE SCHEDULE

MANHOLE REFERENCE	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	DIAMETER / SIZE	COVER TYPE	MANHOLE TYPE
SW1	9.600	9.000	0.600	450mmØ	A15	TYPE 4
SW2 Catchpit	9.550	8.940	0.610	450mmØ	A15	TYPE 4

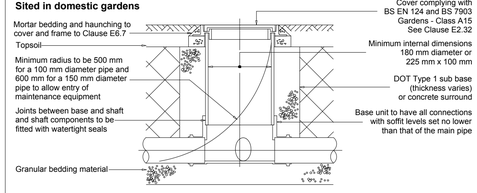
FIGURE B.21
TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4 (Flexible material detail)
Maximum depth from cover level to soffit of pipe 2 m, non-entry

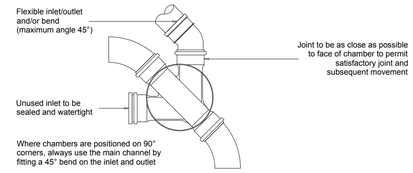
Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval

Sited in driveways/paved areas

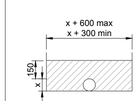


Sited in domestic gardens



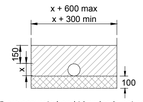


Note: Where the access chamber is in the highway the Highway Authority can have specific requirements
Not to scale



High standard of workmanship required not to be used unless accurate hand trimming by shovel is possible

CLASS D PIPE BEDDING

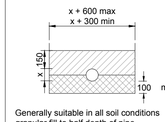


Where accurate hand trimming is not possible class N is an alternative to class D

CLASS N PIPE BEDDING

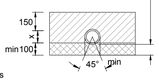
PIPE BORE	BEDDING CLASS	Fields and gardens MIN	Fields and gardens MAX	Light traffic roads MIN	Light traffic roads MAX	Heavy traffic roads MIN	Heavy traffic roads MAX
100mm	D or N	0.4	4.2	0.7	4.1	0.7	3.7
	F	0.3	5.8	0.5	5.8	0.5	5.5
	B	0.3	7.4	0.4	7.4	0.4	7.2
150mm	D or N	0.6	2.7	1.1	2.5	--	--
	F	0.6	3.9	0.7	3.8	0.7	3.3.
	B	0.6	5.0	0.6	5.0	0.6	4.6
225mm	D or N	--	--	--	--	--	--
	F	0.6	2.5	1.2	2.1	--	--
	B	0.6	3.3	0.8	3.2	0.9	2.4

Where there are sockets these should be not less than 50mm above the floor of the trench



Generally suitable in all soil conditions granular fill to half depth of pipe

CLASS B PIPE BEDDING



Generally suitable in all soil conditions

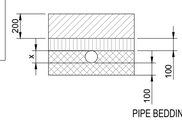
CLASS F PIPE BEDDING

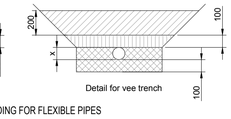
PIPE BEDDING FOR RIGID APPLIES (NON ADOPTIVE DRAINS)

LEGEND:

- Selected fill: free from stones larger than 40mm, lumps of clay over 100mm, timber frozen material and vegetable matter
- Granular material: should conform to BS 882:1983 table 4 or BS8301:1985 Appendix D. Compaction fraction > 0.3 for class N > 0.2 for class F and B.
- Selected fill or granular fill free from stones larger than 40mm

'x' - Denotes external pipe diameter.





Detail for vee trench

PIPE BEDDING FOR FLEXIBLE PIPES

PIPE BEDDING DETAILS (NON ADOPTABLE DRAINS)
(Not To Scale)

NOTES:

1. All dimensions to be checked on site. All details and dimensions relating to sub-Contractors work must be checked and agreed between the sub-Contractor or supplier and the general Contractor.

2. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and specification.

3. The main Contractor is responsible for ensuring the stability of the structure whilst the works are in progress.

4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority. No liability is accepted by the Consultant and the main Contractor is responsible for obtaining and checking all information and taking due care and attention whilst undertaking the works.

5. All pipes, bends and junctions shall be vitrified clay to BS EN 295-1, with flexible joints and kitemark certified. Alternatively all pipes and fittings can be UPVC conforming to BS EN 1401-1 and shall be laid in accordance with the manufacturers specification. If UPVC pipes are to be used then the manufacturer shall be approved by the Engineer prior to construction.

6. All Adoptable sewers shall be in strict accordance with the current edition of Sewers For Adoption. Unless otherwise stated adoptable sewers shall be 150mm diameter and shall be laid in a class S bedding. Where the depth to soffit is less than 1.2m under a public highway or 0.9m elsewhere the pipe shall be laid with a class Z bedding.

7. All private building drainage shall be constructed in strict accordance with BS EN 752:1996. Unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of 1 in 40 for foul drains and 1 in 80 for surface water drains. All building drains shall be laid in class B bedding unless otherwise specified.

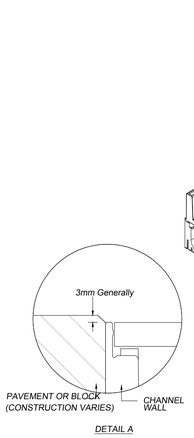
8. Where the service trench is near to the foundation of any building, refer to the guidance in Approved Document H, Building Regulations Part H1.

9. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN 3 concrete encasement (150mm thick). In all other cases the pipes shall be bedded and surrounded with 100mm thick granular material.

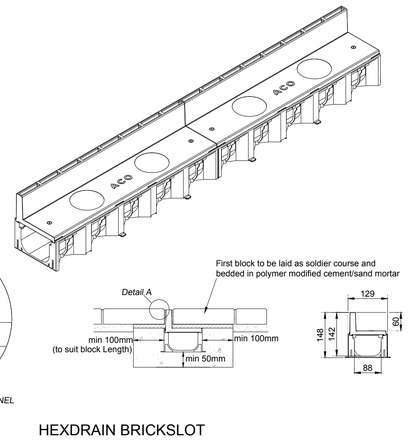
10. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreboard or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.

11. All svps shall have rodding access plates fitted at their bases (ground floor level).

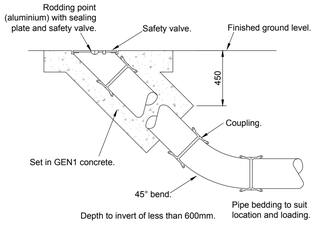
12. Where existing pipes are to be abandoned they shall be dug out together with any abandoned manholes.



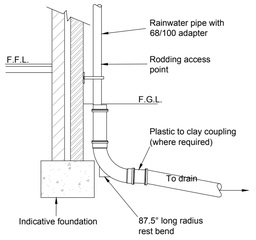
DETAIL A



HEXDRAIN BRICKSLOT CHANNEL
(Scale 1:10)

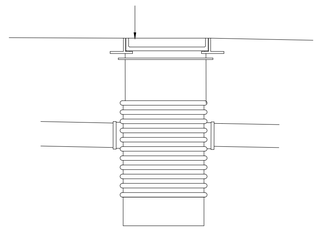


DETAIL OF RODDING EYE
(Scale 1:25)



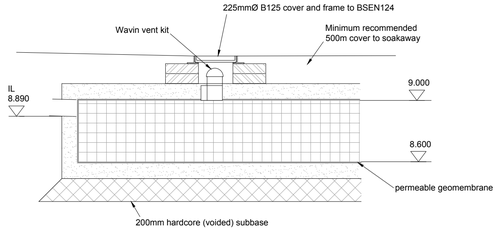
TYPICAL RAINWATER PIPE DETAIL
(Scale 1:25)

SW Catchpit - Wavin 6LB600 Silt Trap, or similar approved. Upstream access chamber with sump to all chambers which directly precede the storage tanks.



TYPICAL CATCHPIT CHAMBER
(Scale 1:20)

Wavin AquaCell Prime Soakaway: 1m x 0.5m x 0.4m deep units Surrounded with a permeable geomembrane and 100mm of 5mm clean stone.



WAVIN AQUACELL SOAKAWAY DETAIL
(Scale 1:20)

REV	DATE	INT	DESCRIPTION	CHK
A	05.01.18	TZ	Soakaway Size Revised	SRM

Issue Status: FOR APPROVAL

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Sussex
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Tel: 01273 424424
Fax:01273 424425
email: design@civil.co.uk

the Civil Engineering Practice

CLIENT: Reg Hawks

PROJECT: Yapton Free Church, Yapton

TITLE: Proposed Drainage and Construction Details

DRAWN	DATE	PROJECT NO.
M Glasgow	Jun 2017	22815
ENGINEER	CHECKED	DRG. No. / REV.
T. Zajac	BS	201 A

SCALE: As Shown @ A1