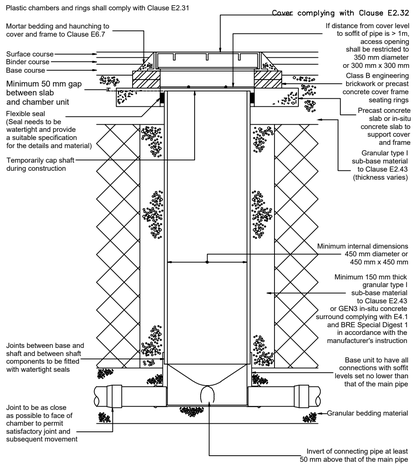
FIGURE B.18
TYPICAL INSPECTION CHAMBER DETAIL - TYPE D

Depth from cover level to soffit of pipe up to 2 m
Flexible material construction for use in areas subject to vehicle loading



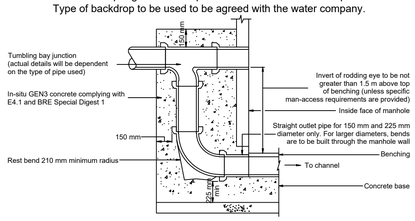
Note: Where the access chamber is in the highway (including any footway), the highway authority can have specific requirements.

Not to scale

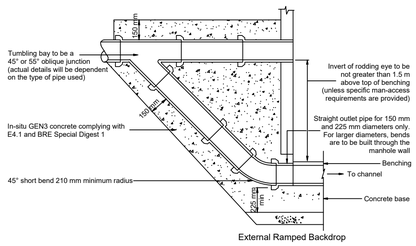
FIGURE B.16
TYPICAL VERTICAL AND RAMPED BACKDROP DETAIL (RIGID MATERIAL)

For use in manhole types A to D

Note: Steeper gradients are preferred to the use of backdrops.
Type of backdrop to be used to be agreed with the water company.

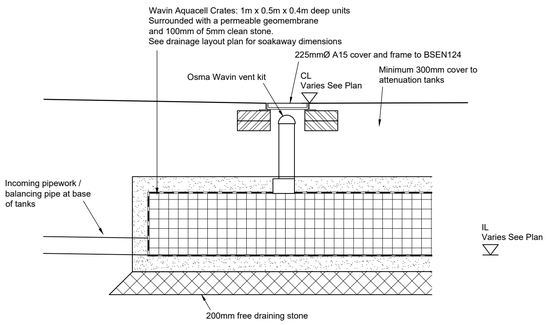


External Vertical Backdrop



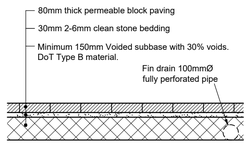
External Ramped Backdrop

Not to scale



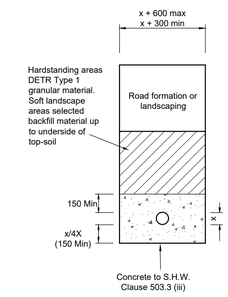
OSMA WAVIN AQUACELL STORAGE CRATES

(Scale 1:20)



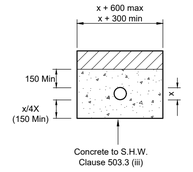
PERMEABLE BLOCK PAVING DETAIL

(Scale 1:20)



CLASS Z PIPE BEDDING

COVER 0.9m TO 1.2m IN VEHICULAR LOADING
(Scale 1:25)



CLASS Z PIPE BEDDING

PIPE BEDDING DETAILS (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.

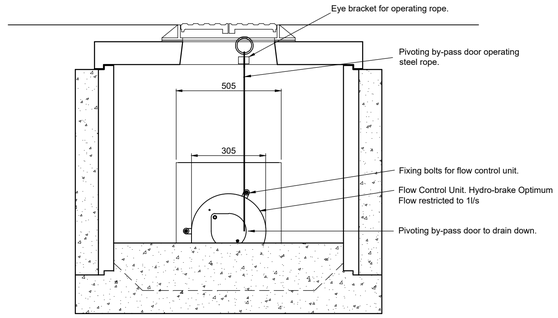
8. Where the service trench is near to the foundation of any building, refer to the guidance in Approved Document H, Building Regulations Part H1.

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).

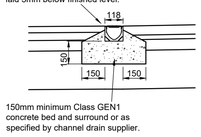
12. Where existing pipes are to be abandoned they shall be dug out together with any abandoned manholes.



SECTION

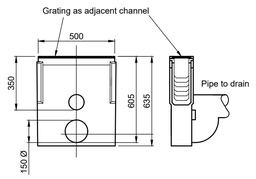
(Scale 1:20)

Channel drains shall be ACO Multidrain channels with as supplied by ACO Technologies plc or similar approved. Grating to be laid 3mm below finished level.



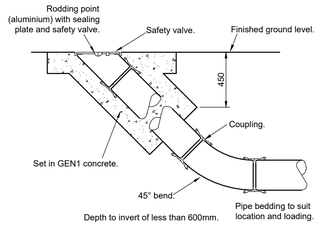
ACO CHANNEL DRAIN DETAIL

(Scale 1:20)



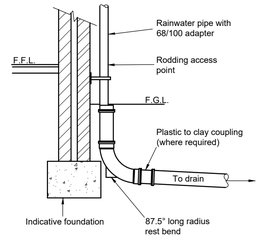
ACO UNIVERSAL SUMP DETAIL

(Scale 1:20)



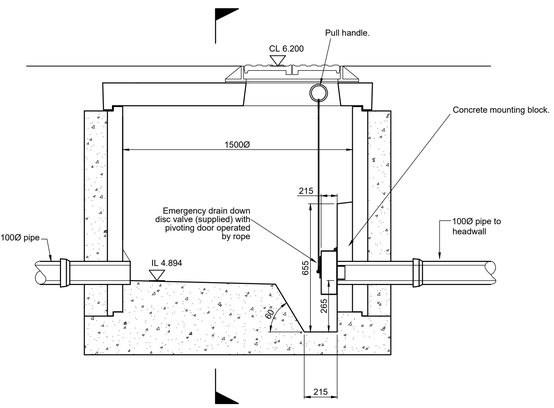
DETAIL OF RODDING EYE

(Scale 1:25)



TYPICAL RAINWATER PIPE DETAIL

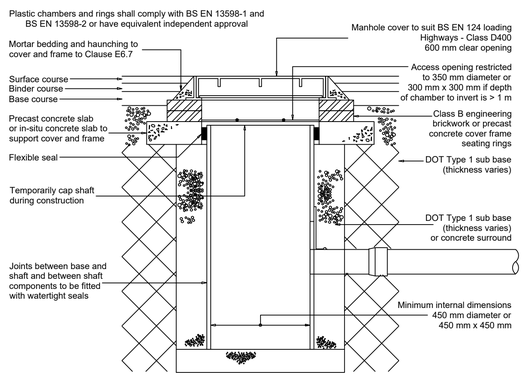
(Scale 1:25)



HYDROBRAKE MANHOLE

(Scale 1:20)

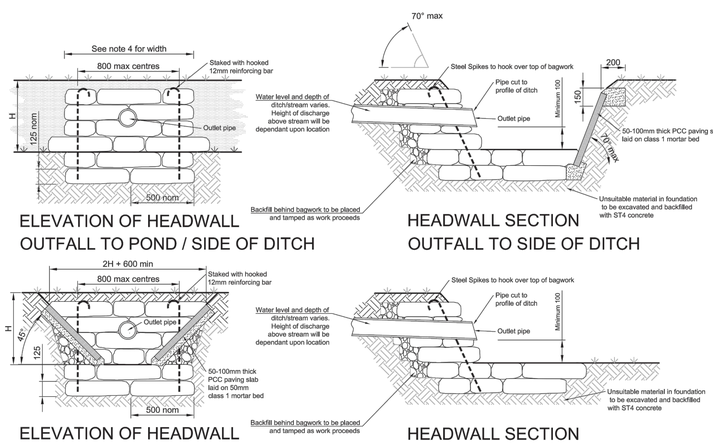
Maximum depth from cover level to soffit of pipe in areas subject to vehicle loading 3 m, non-entry



Not to scale

CATCHPIT CHAMBER 500mm SUMP

(Scale 1:20)



ELEVATION OF HEADWALL OUTFALL TO POND / SIDE OF DITCH

HEADWALL SECTION OUTFALL TO SIDE OF DITCH

ELEVATION OF HEADWALL OUTFALL TO END OF DITCH

HEADWALL SECTION OUTFALL TO POND / END OF DITCH

WEST SUSSEX STANDARD DETAIL CONCRETE BAGWORK HAEDWALL

(Scale 1:25)

NOTES

1. Bags shall be of Hessian or Canvas and shall be of a size to provide a wall thickness of 500mm

2. Concrete bagwork shall be to Clause 519 and be three quarter filled with 25mm slump ST4 concrete immediately prior to placing with the ends sewn.

3. The bags shall be placed in a modified Flemish bond so as to 'break joint' with the mouths away from the surface and be tamped into position to form a rectangular block

4. Extent of outlet protection to be the greater of 1500mm or pipe diameter + 1200mm spanning the outlet pipe.

5. Headwall design may need to be adjusted to on site conditions following approval from WSCC Inspector

6. For vehicluar crossings of ditches pipes shall be min 450mm diam and be set to invert of ditch. Ditch to be regraded to achieve satisfactory falls.

7. For H>600 appropriate vehicular or pedestrian containment shall be installed.

8. The nearest edge of any carriageway shall be set back at least H from the base of the ditch

9. All exposed pipework to be certified UV stable.

REV	DATE	INT	DESCRIPTION	CHK
B	15.02.22	MJP	Hydrobrake Inver Level updated	SRM
A	15.02.22	MJP	Headwall and Hydrobrake details added	SRM

Issue Status PRELIMINARY

The Civil Engineering Practice
11 Tungsten Building
George Street
Fishersgate
Sussex
BN41 1RA

01273 424424
reception@civil.co.uk
www.civil.co.uk

CLIENT Waterford Properties Ltd

PROJECT Waterford Gardens
Climping
West Sussex

TITLE Construction Details

DRAWN	DATE	PROJECT NO.
M Pacifico	Feb 2022	23078
ENGINEER	CHECKED	DRG No. / REV.
S Magowan		501 B
SCALE		
As Shown		