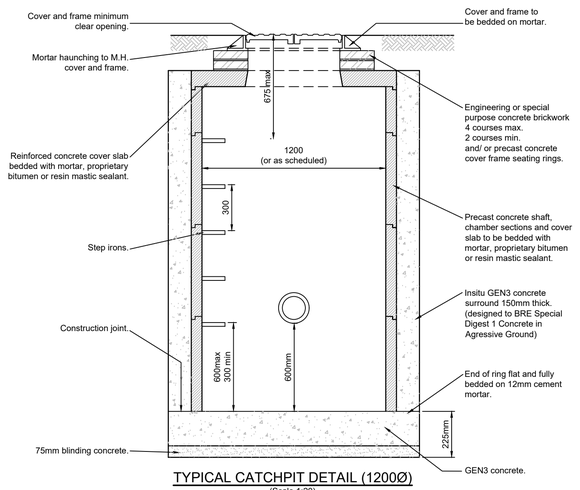
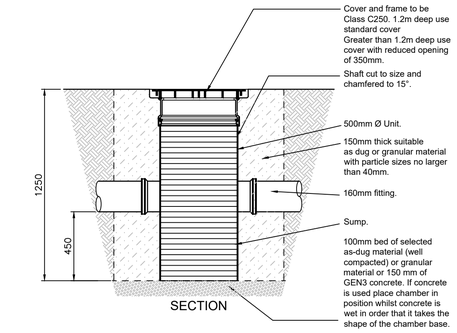


TYPICAL CATCHPIT DETAIL (1200Ø)

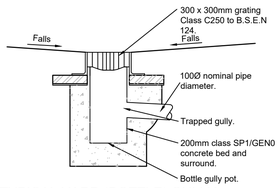
(Scale 1:20)



POLYPROPYLENE SHALLOW SILT TRAP DETAIL (500Ø)

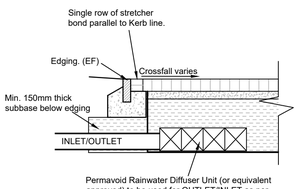
(Scale 1:20)

Depth to invert 1.25m (standard unit)
Silt Traps installed greater than single unit depth to be extended using inspection chamber shaft units.



TYPICAL YARD (BOTTLE) GULLY

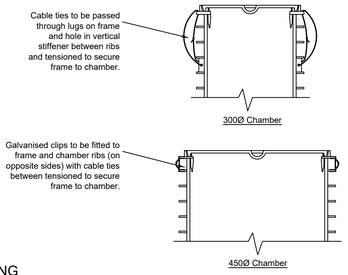
(VEHICULAR LOADING)
(Scale 1:20)



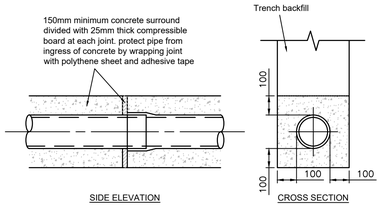
NOTE:
Porous paving system to be installed in strict accordance with the manufacturers recommendation and instructions.

PRIVATE DRIVEWAY - POROUS PAVING

(TANKED)
(Scale 1:20)
(Cars and Light Vehicles Only)

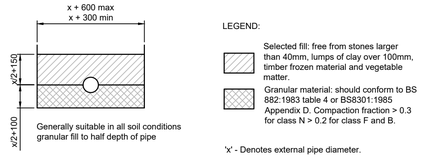


ACCESS CHAMBER FRAME FIXING (LANDSCAPED AREAS)



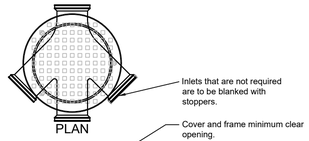
CONCRETE BED AND SURROUND TO PIPES UNDER DRIVES AND GARDENS

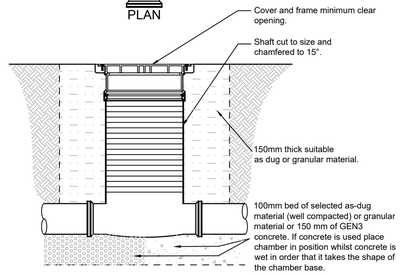
Depth of cover less than 0.35m under private gardens and 0.5m under private drives
(Scale 1:20)



PIPE BEDDING DETAIL UNDER DRIVES AND GARDENS

Min depth of cover 0.35m under private gardens and 0.5m under private drives
(Scale 1:20)





DETAIL OF RODDING EYE

(Scale 1:20)

SECTION

POLYPROPYLENE SHALLOW INSPECTION CHAMBER DETAIL (250Ø)

(Scale 1:20)

Depth to invert of less than 600mm.

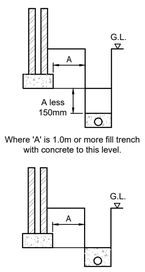
Minimum Dimensions for Access Fittings and Chambers						
Type	Internal Sizes				Cover Sizes	
	Depth to invert (m)	Size of largest pipe (DN)	Length x Width (mm)	Circular (mm)	Length x Width (mm)	Circular (mm)
Rodding Eye	As Drain but Minimum 100mm					
Shallow Access Small	0.6 or less	150	150x100	150	150x100	150
Large			225x100		225x100	
Inspection Chamber	0.6 or less	150		190		190
	1.2 or less		450x450	450	450x450	450
	1.2 - 3.0		450x450	450	300x300	350
Manhole	1.5 or less	150	675x750	1200	675x750	n/a
		225	675x1200	1200	1200x675	n/a
		300	675x1200	1200	1200x675	n/a
		>300	DN+450 x1800	The larger of 1800 or (DN+450)	1200x675	n/a
	Over 1.5	225	1200x1000	1200	600x600	600
		300	1200x1075	1200	600x600	600
		375-450	1350x1225	1200	600x600	600
		>450	DN+775 x1800	The larger of 1800 or (DN+775)	1200x675	600
Manhole Shaft	Over 2.7		900x840	900	600x600	600

BUILDING REGULATIONS MINIMUM DIMENSIONS FOR MANHOLES

(Not to Scale)

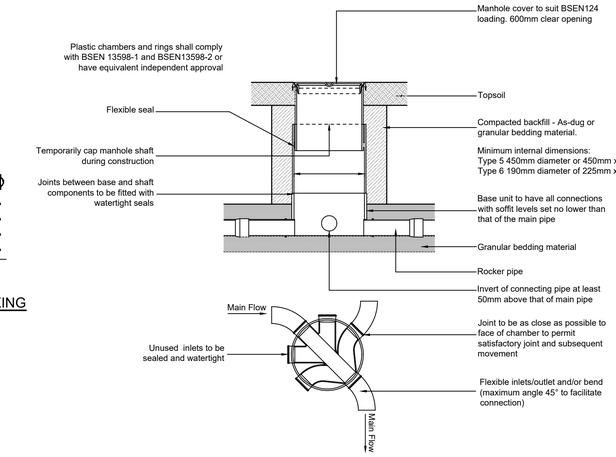
This plan complies with the Building Regulations 2002 Section 'H' - Drainage & Waste Disposal.

NOTE:
Polypipe products shall be used where possible for below ground drainage



DETAIL OF PIPE RUNS NEAR BUILDINGS

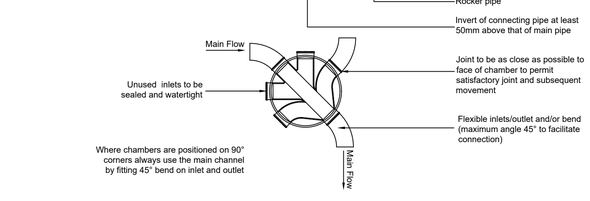
(Not to Scale)



Alternative base invert layouts. All connections to be minimum soffit to soffit.

TYPICAL ACCESS CHAMBER DETAIL- TYPES 5 & 6 (LANDSCAPED AREAS)

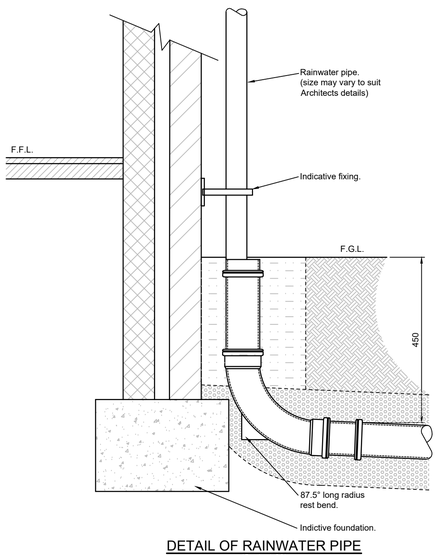
1m MAXIMUM DEPTH TO FROM COVER TO PIPE SOFFIT. (NON ENTRY) LOCATED IN LANDSCAPED AREAS



Alternative base invert layouts. All connections to be minimum soffit to soffit.

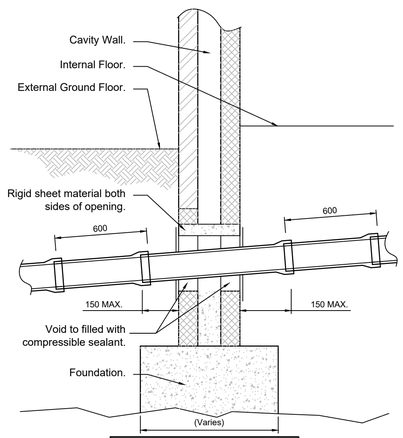
TYPICAL ACCESS CHAMBER DETAIL - TYPE 5 & 6 (FOOTPATHS AND PRIVATE DRIVES)

1m MAXIMUM DEPTH TO FROM COVER TO PIPE SOFFIT. (NON ENTRY) LOCATED IN AREAS SUBJECT TO LIGHT VEHICLES AND FOOTPATHS



DETAIL OF RAINWATER PIPE

(Scale 1:20)



Note:
Arched or lintelled opening to give 50mm min clearance all around the pipe. mask opening both sides with rigid sheet material to prevent overspill of fill or entry for vermin.

TYPICAL SECTION PIPE PASSING THROUGH WALL PIPE THROUGH LINTELLED OPENING

(Scale 1:20)

1:1000@ A1
1:2000@ A3
0 10 20 30 40 50 60 70 80 90 100 m

Example Drawing Title @ 1:1000

DRAINAGE NOTES:

1. All drainage works to be constructed in strict accordance with specification of the Local Authority, Building Regulations, Design and Construction Guidence (published by Water UK), BS8301 & BSEN.752-1.
2. For location and setting out of building drainage points refer to architects drawings.
3. All pipe runs near buildings to comply with the Building Regulations 2002 part H1. Where a pipe is within 1m of a foundation the trench shall be filled with class gen3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class gen3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN3 concrete.
4. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN3 concrete encasement (150mm thick).
5. Where a pipe, under a carriageway, has a depth of cover of less than 1.2m the pipe shall be laid in a concrete bed and surround.
6. 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.
7. All private building drainage shall be constructed in strict accordance with BS EN.752-1. Foul drainage beneath the floor slab shall be laid, shall be laid no flatter than 1:40. Unless otherwise specified below ground building drainage external to the building shall be 100mm diameter and shall be laid at a minimum gradient of (<1¼s = 1 in 40/>1¼s = 1 in 80) for foul drains and 1 in 80 for surface water drains.
8. All building drains shall be laid in conjunction with 'non adoptive bedding details' (class d, n or b) unless otherwise specified.
9. All pipes, bends and junction for private building drainage shall be UPVC conforming to BS4660, BSEN13598 and BSEN1401 as appropriate and shall be laid in accordance with the manufacturer's specification.
10. All pipes, bends and junction materials for adoptable drainage shall be vitrified clay, extra strength or super strength to BSEN295, with flexible joints and kitemark certified
11. All back inlet gullies to be roddable or connected to inspection chambers.
12. All gully connections other than at manholes to be 'y' junctions.
13. All road gully connections to be 150mm diameter.
14. All stub stacks to be fitted with air admittance valves where branch drain exceeds 12m except at the head of the run. Soil vent pipes located at the head of a run to terminate to fresh air.
15. No low point shall be without a method of drainage.
16. All connections to be soffit to soffit unless otherwise noted.
17. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
18. The locations of all building drainage points shall be cross referenced against the architects drawings during setting out.
19. Before connections are made to existing public sewers an application under 106 must be made to relevant sewerage undertaker.
20. The precise depth and location and size of existing pipes, watecourses or manholes where connections or diversion are proposed must be confirmed and reported to the engineer before works commence on site.
21. Existing drains - any existing drains to be abandoned to be decommissioned in view of building regulations by either building out, infilled or sealed.
22. Should ground water be encountered on site during construction BPC shall be informed to determine if additional measures are required.
23. The drainage drainage system shall be fully cleansed on completion of the project using methods that ensure pollution off site does not occur.
22. Any existing land drains severed during construction shall be reinstated.

NOTES

A1

1. This drawing is to be read in conjunction with all other Bright Plan Civils drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
2. Bright Plan Civils accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
3. Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main contractor is responsible for checking all information on site prior to work commencing and taking due care whilst undertaking the works.
5. 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.
6. The electronic information from this drawing can not be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. Bright Plan Civils logos and company information must be removed from copies if information is re-used.

RESIDUAL HAZARDS

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following:

1. Uncharted buried services. Contractor to use CAT prior to excavating.
2. Working in live carriageway. Contractor to implement traffic management to ensure safety of the workforce and public.
3. Working in live sewers. Contractor to ensure operatives are familiar with the dangers of working in live sewers.
4. Excavations close to existing structures. Contractor to prepare method statement to ensure stability of existing structures.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved risk assessment and method statement

Rev.	Amendments	Date
-	Original Issue	18/09/2019

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Drawing Status: FOR APPROVAL

Client: THAKEHAM

Project: BILSHAM ROAD YAPTON

Drawing Title: PRIVATE DRAINAGE DETAILS

Scale: NTS | Date: FEB 22 | Drawn By | Checked By

Drawing No.: D1956-15.2 | Rev.: -

ARUN DISTRICT COUNCIL Y/0322/DOC