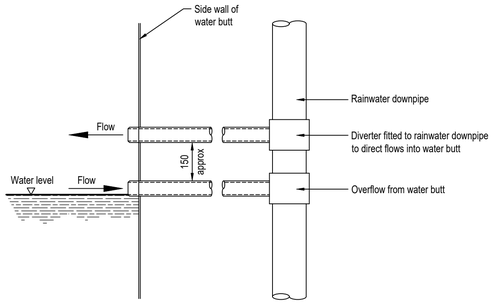
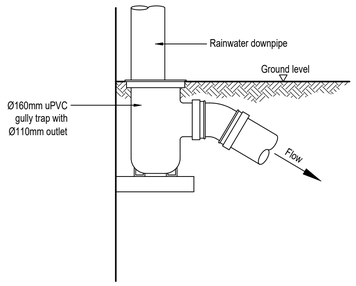


TYPICAL SECTION THROUGH RAINWATER DIVERTER

TO BE FITTED TO EACH RAINWATER BUTT

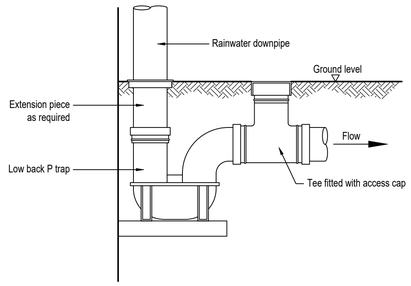
Scale 1:10



TYPICAL DETAIL AT BASE OF RAINWATER DOWNPIPES

FOR USE WHERE DOWNPIPES DO NOT DISCHARGE INTO WATER BUTTS FIRST

Scale 1:10



TYPICAL DETAIL AT BASE OF RAINWATER DOWNPIPES

FOR USE WHERE DOWNPIPES DO NOT DISCHARGE INTO WATER BUTTS FIRST

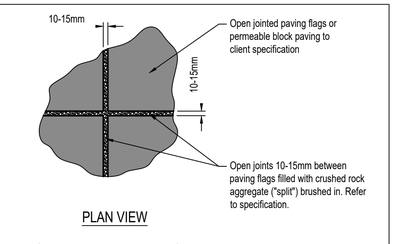
Scale 1:10

NOTES

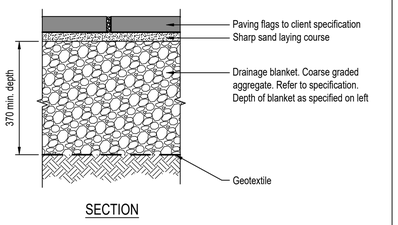
1. TAKE TIME TO READ AND UNDERSTAND THIS DRAWING AND FAMILIARISE YOURSELF WITH ITS CONTENT. DO THIS IN GOOD TIME BEFORE COMMENCING ANY WORK. AND IN THE EVENT OF ANY QUERY, REFER TO HERBERT STUMPP LTD IN A TIMELY MANNER.
2. Do not scale from this drawing for construction or fabrication. Work to figured dimensions only
3. This drawing is to be read in conjunction with all other relevant Architect's and Engineer's drawings
4. The contractor's attention is drawn to the drawing status and is to note the following:

   PLANNING (PL): The drawing is for planning only
   TENDER (T): The drawing is for pricing purposes only
   PRELIMINARY (P): The drawing has not received technical approval from the relevant approving authority
   CONSTRUCTION (C): The drawing is for construction

   THE CONTRACTOR MUST BE AWARE THAT ANY WORKS CARRIED OUT BASED UPON DRAWINGS MARKED TENDER OR PRELIMINARY ARE CARRIED OUT AT THE CONTRACTOR'S OWN RISK.
5. The Construction (Design and Management) Regulations 2015 apply to this project. It is the client's responsibility to ensure that the requirements of the Regulations are satisfactorily addressed prior to commencement of any works.



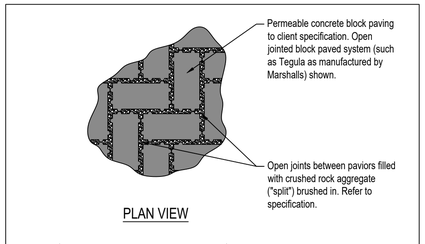
PLAN VIEW



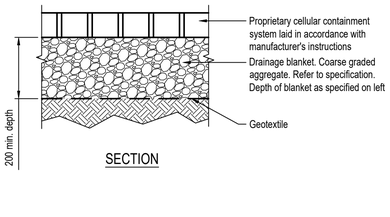
SECTION

DRAINAGE BLANKET BENEATH PATIO

Scale 1:10



PLAN VIEW



SECTION

PARKING/DRIVEWAY

Scale 1:10

SPECIFICATION FOR PERMEABLE SURFACING

1. Permeable paving: minimum thickness 50mm in pedestrian only areas and 65mm in driveway and vehicle crossover
2. Laying course and jointing aggregate: 2-6.3mm granite grit to BS EN 13242 lightly compacted. Re-grit 3 months after 3-4 months and upon final completion to allow for settlement.
3. Coarse graded aggregate: 4-20mm to BS EN 13242 lightly compated in 150mm layers
4. Geotextile: Needle punched polypropylene across base and taken up sides of excavation
5. Soft spots in formation to be removed and backfilled with SHW Clause 805 Type 3 material to BS EN 13242

GRANULAR BEDDING REQUIREMENTS - RIGID PIPES:

PIPE INTERNAL DIAMETER:

UP TO 100mm:	6 or 10 single size or 10 to 5 graded
100mm to 150mm:	10 or 14 nominal single size or 14 to 5 graded
225mm to 525mm:	10, 14 or 20 nominal single size or 14 to 5 graded or 20 to 5 graded
600mm and above:	10, 14, 20 or 40 nominal single sized crushed rock or 14 to 5 graded or 20 to 5 graded or 40 to 5 graded

GRANULAR BEDDING REQUIREMENTS - FLEXIBLE PIPES:

Either 6mm single size granular material or graded granular material 5mm minimum 10mm maximum size

PIPE STRENGTH AND BEDDING COMBINATIONS:

For concrete pipes with 0.9m to 1.2m cover to crown of pipe use Concrete Class M or Class H with Class A bedding
For concrete pipes with 1.2m to 2.5m cover to crown of pipe use Concrete Class M or Class H with Class B bedding
For clay pipes with 0.9m to 1.2m cover to crown of pipe use ESVC with Class A bedding
For clay pipes with 1.2m to 2.5m cover to crown of pipe use ESVC with Class B bedding

PIPE BEDDING NOTES:

Bc = Outside diameter of pipe
DN = Internal diameter of pipe

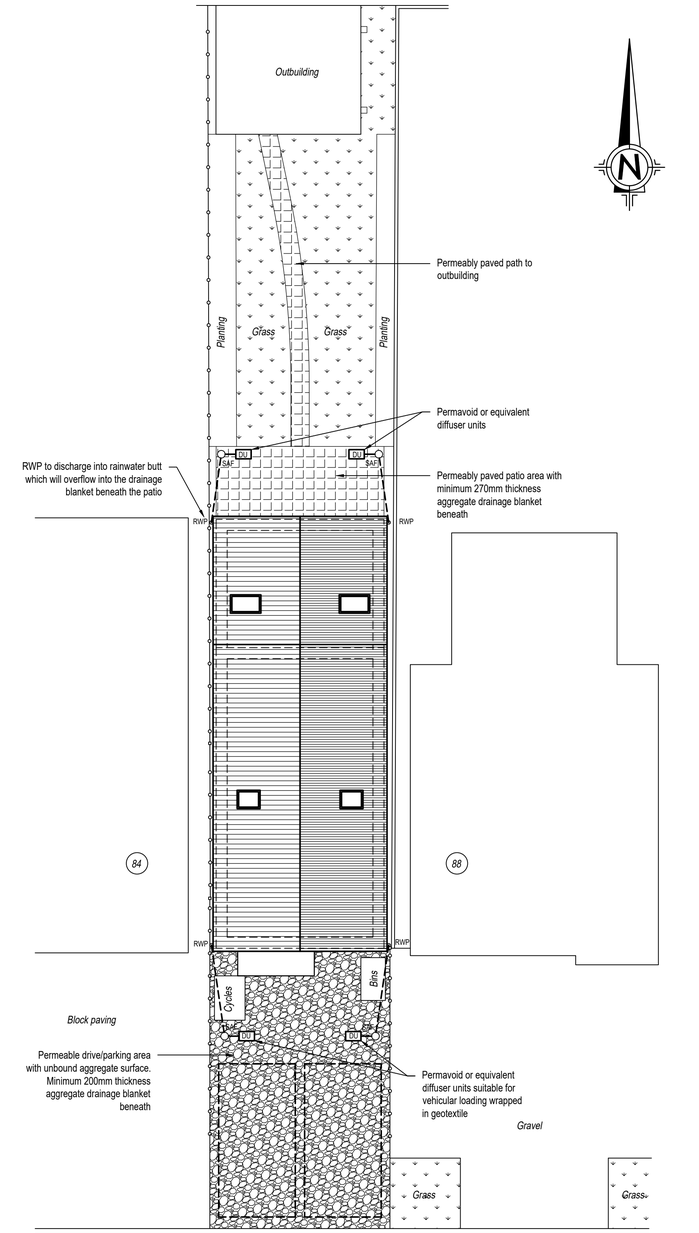
DIMENSION Y: EITHER: 1/6 of external pipe diameter OR 100mm under barrels and 50mm under sockets, whichever is greater. Maximum 400mm

Where a concrete surround is specified, Flexcell or equivalent compressible material is to be provided in the concrete surround at each pipe joint. Minimum thickness of compressible material 25mm

Selected as dug fill material or granular material free from stones larger than 40mm nominal size, lumps of clay over 100mm timber, frozen material and vegetable matter

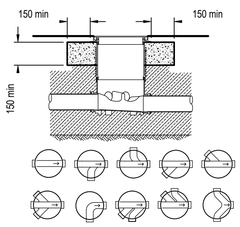
Granular bed (refer to granular bedding requirements)

Concrete Grade ST4



PROPOSED SURFACE WATER DRAINAGE

Scale 1:100



Configurations for Shallow Access Bases

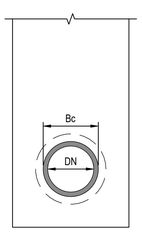
SHALLOW ACCESS FITTING (SAF)

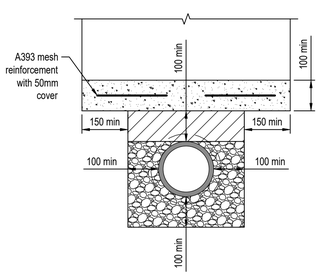
MAXIMUM DEPTH TO INVERT 600mm

(Scale 1:20)

NOTES FOR POLYPROYLENE INSPECTION CHAMBERS AND SHALLOW ACCESS FITTINGS:

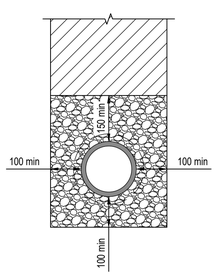
1. Provide a 100mm thick bed of selected as-dug or granular material. If ground conditions are unstable use a 150mm thick bed of either ST4 or GEN4 designated mix in-situ concrete, placing the pre-formed polypropylene base of the chamber in position whilst the concrete is still wet so that it may adopt the shape of the base of the chamber
2. Polypropylene inspection chamber shaft sections are to provide set inverts using standard height shaft sections or are to provide inverts as specified by site cutting shaft sections to required height
3. 150mm minimum thickness of selected as-dug or granular material shall be placed and rammed firmly around pipes and fittings until adequate support is achieved
4. A 150mm minimum thickness grade ST4 concrete collar shall be provided around the top of the shaft to provide seating for cover and frame where the chamber is located in non-adopted hard landscaped areas or in soft landscaped areas where there is access by construction traffic
5. A minimum 150mm thick grade ST4 concrete bed and surround is required where chambers are located in soft landscaped areas subject to construction traffic
6. Proprietary inlet adaptors are to be used to connect 100mm diameter pipes to 150mm diameter inlets
7. Unused inlets are to be sealed off using proprietary blanking-off plugs or plates





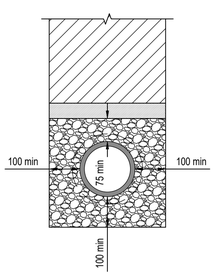
PIPE BEDDING FOR FLEXIBLE PIPES WITH LESS THAN 0.9m COVER BENEATH DRIVEWAYS AND VEHICULAR ACCESSES

(Scale 1:10)



PIPE BEDDING FOR FLEXIBLE PIPES WITH MORE THAN 0.9m COVER BENEATH DRIVEWAYS AND VEHICULAR ACCESSES

(Scale 1:10)



PIPE BEDDING FOR FLEXIBLE PIPES WITH LESS THAN 0.6m COVER BENEATH AREAS WITHOUT VEHICULAR ACCESS

(Scale 1:10)

SCALE BAR 1:1250 SCALE DETAILS

0m 50 100 150 200 250m

SCALE BAR 1:100 SCALE DETAILS

0m 1 2 3 4 5 10 20m

ARUN DISTRICT COUNCIL, M/22/25/PL

Revisions:
PL1: Draft issue
PL2 19.02.2025: Issued for planning

ORIGINAL DRAWING SIZE: A1

HERBERT STUMPP LIMITED
Civil & Structural Engineers
Party Wall Surveyors
07921 214399
Email: info@herbertstumpp.co.uk

Project
86 ANCTON WAY, BOGNOR REGIS, WEST SUSSEX PO22 6JP

PROPOSED SURFACE WATER DRAINAGE

Drawing status: PLANNING
Drawn by: PP
Drawing Number: 006
Date: January 2025
Scale: As shown
Revision: PL 2