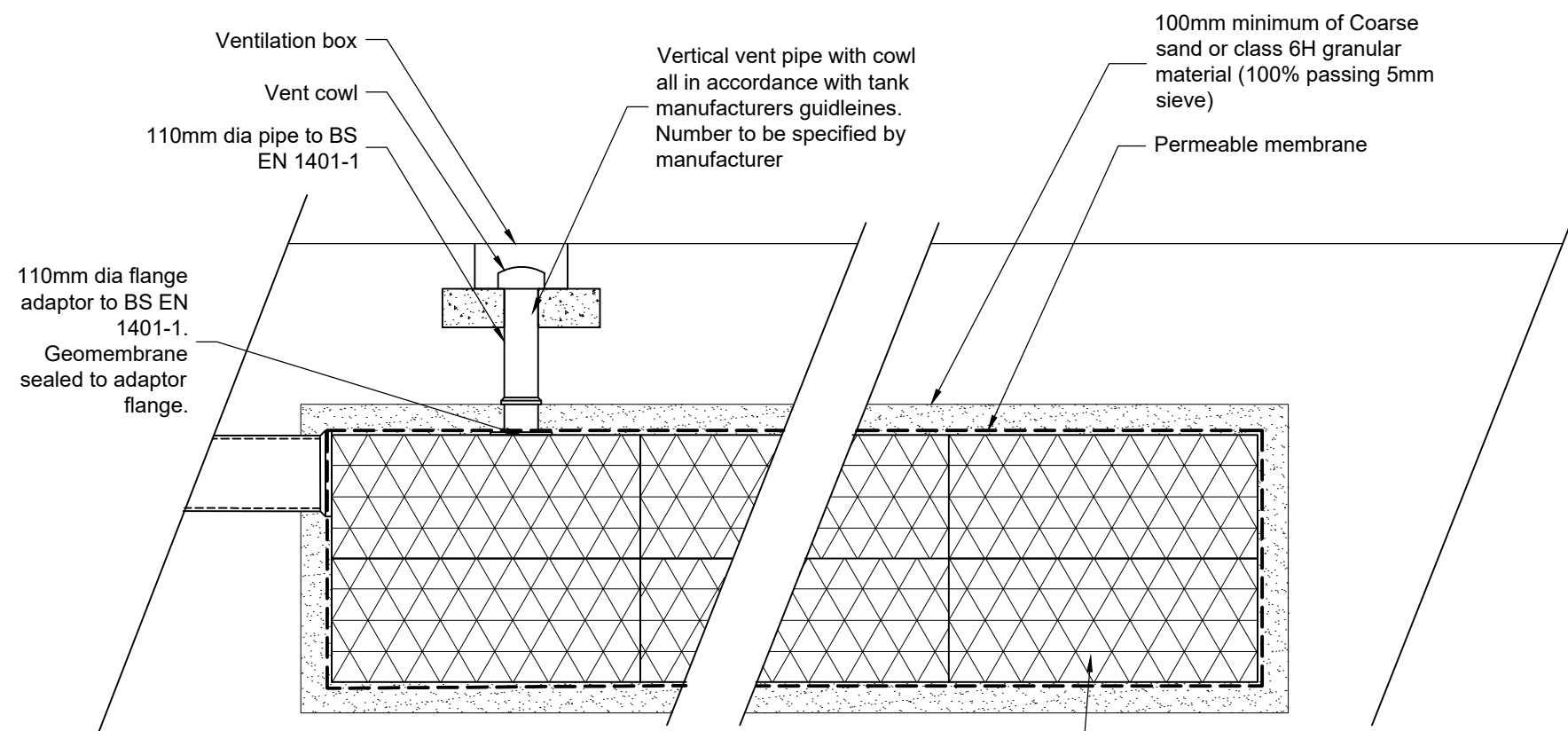
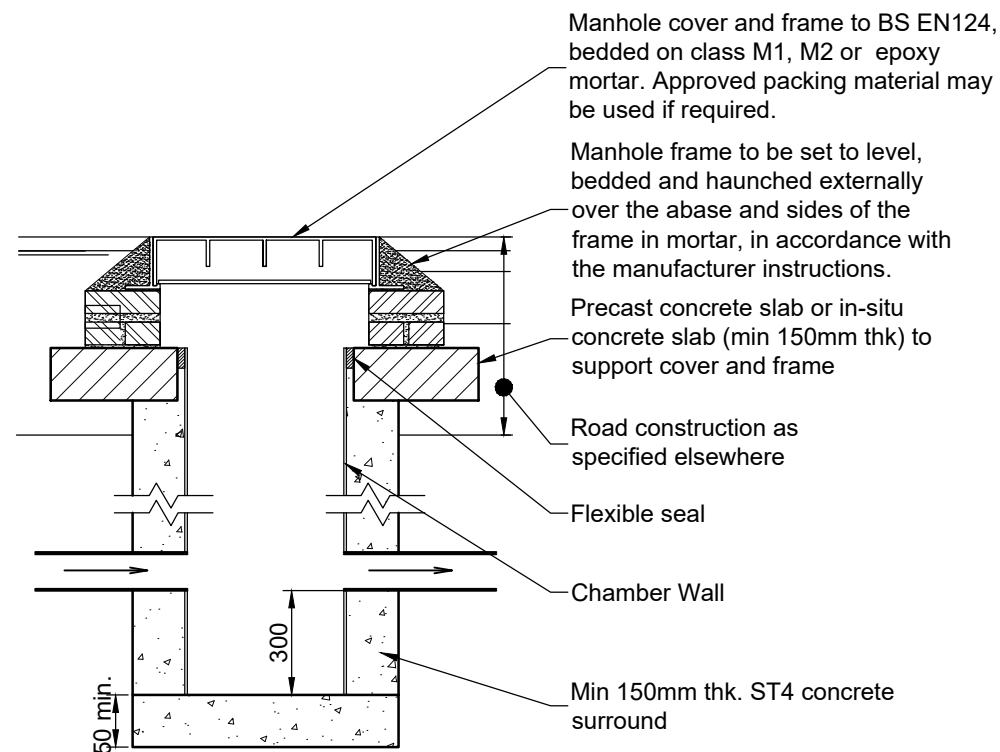




Cellular Soakaway

Cellular attenuation to be installed to manufacturers specifications

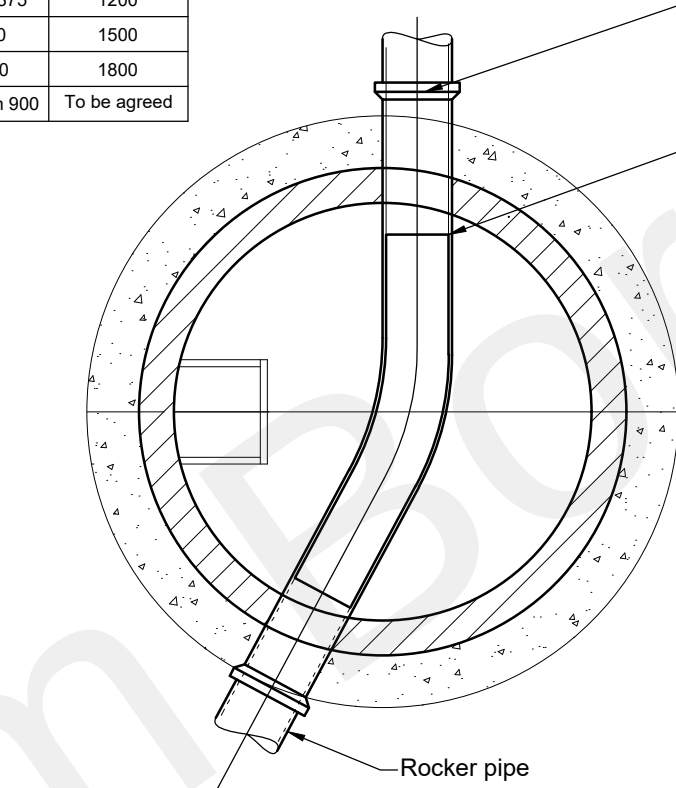
Polystorm Modular Cells to be PSM1 with a compressive strength of 44 tonnes per m².



Typical Catchpit Detail

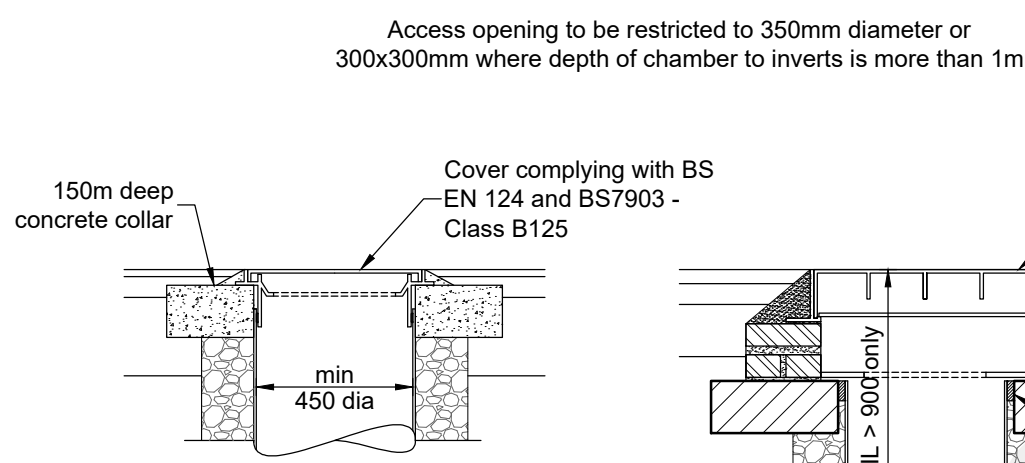
1:20

Shaft Diameters	
Largest Pipe Ø in manhole [mm]	Internal Ø of manhole [mm]
Less than 375	1200
375 - 700	1500
750 - 900	1800
Greater than 900	To be agreed



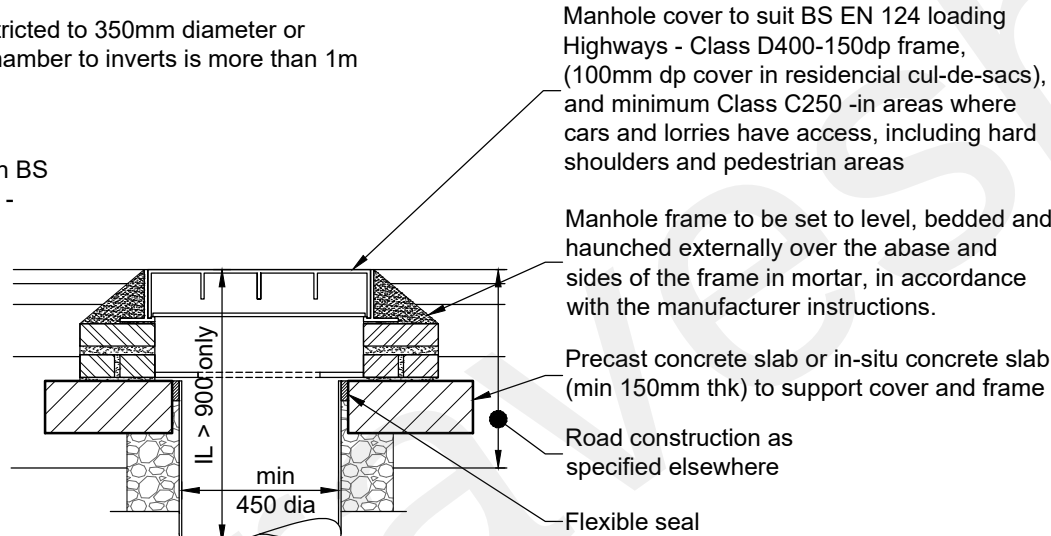
Typical Manhole Detail
Sewers for Adoption 6th Edition
Type B - Depth to soffit 1.5 - 3m

1:20



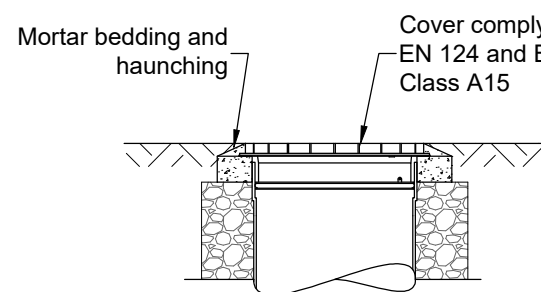
Cover for Driveways, Footpaths and Landscaped Areas

1:20



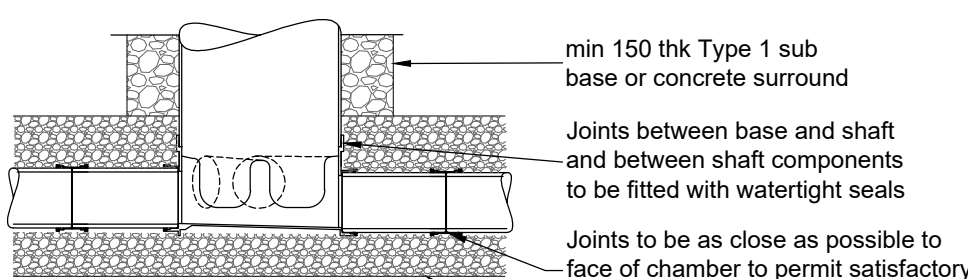
Cover for Roads and Carparks

1:20



Cover for Domestic Gardens

1:20

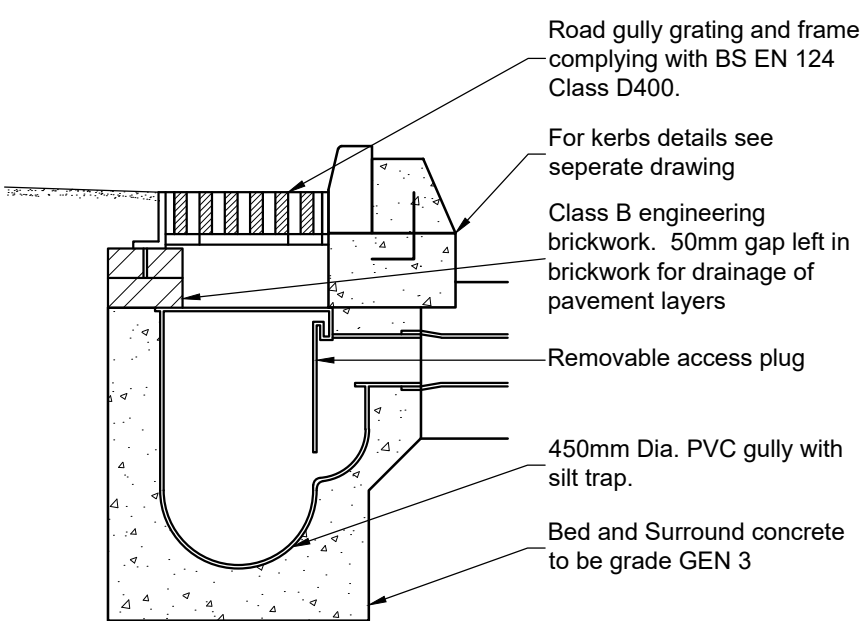


Polypropylene Inspection Chamber (PPIC) Detail

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

1:20

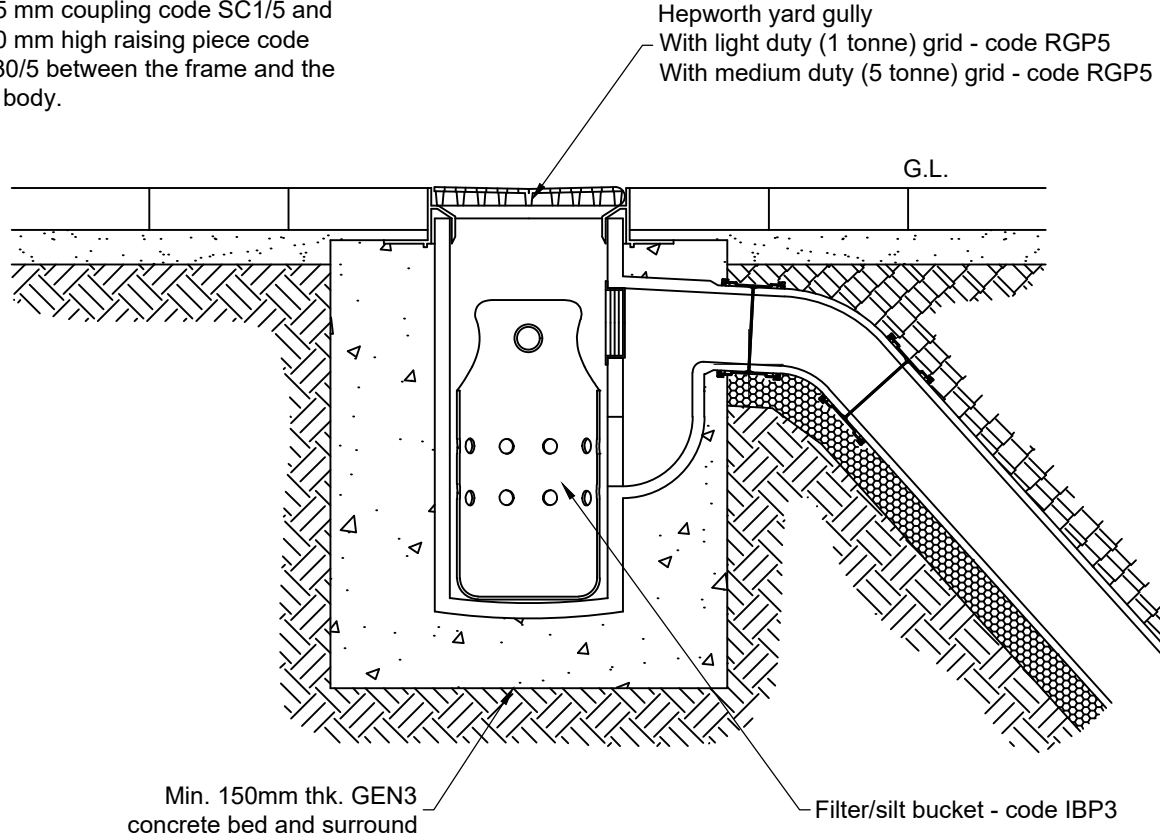
Rocker Pipes	
Sewer Diameter [mm]	Effective Length [mm]
150 to 600	600
over 600 to 750	1000
over 750	1250



Typical PVC Gully Detail

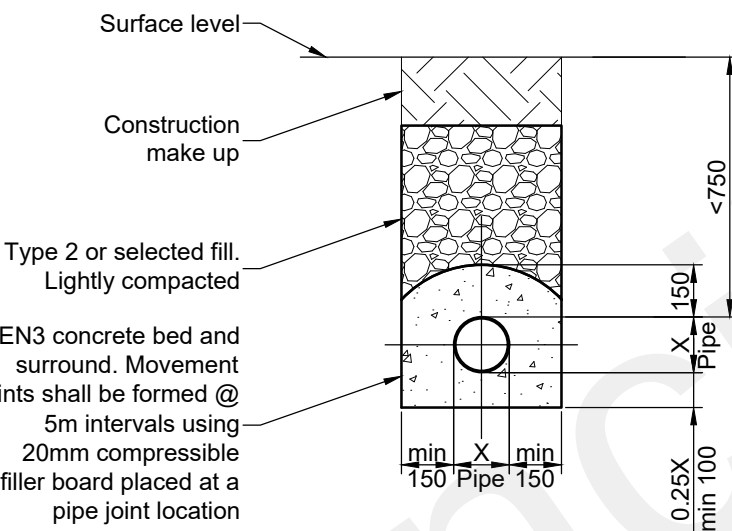
1:20

NB: The depth of the gully can be increased by up to 300 mm by fitting a 225 mm coupling code SC1/5 and a 300 mm high raising piece code SP030/5 between the frame and the gully body.



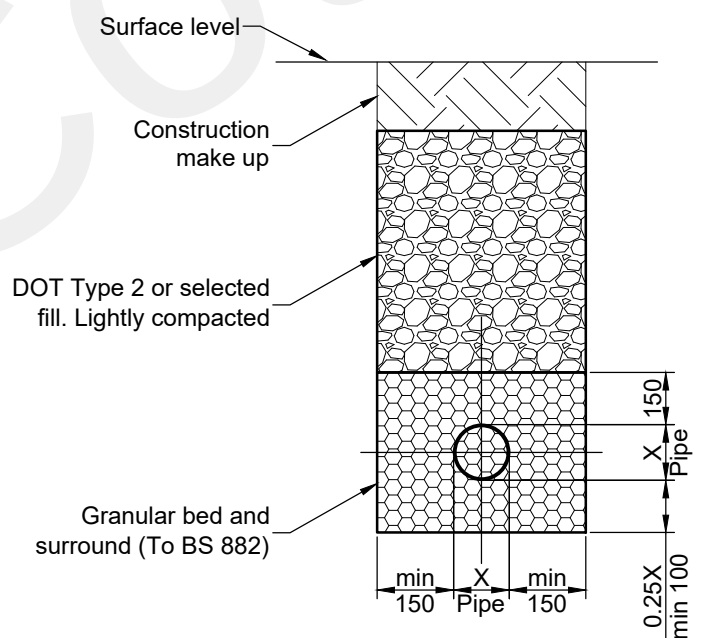
Typical Foul Gully Detail

1:10



Typical Pipe Bedding With Concrete Bed and Surround

GEN3 concrete bed and surround to be used under paved areas where the depth between the finished construction level and the Barrel of the drain is less than 750mm.



Typical Pipe Bedding With Granular Bed and Surround

1:20

Granular bed and surround to be used where concrete bed and surround are not required.

SAFETY, HEALTH & ENVIRONMENTAL HAZARD INFORMATION BOX.



The hazards noted below are in addition to the normal hazards and risks faced by a competent contractor when dealing with the types of works detailed on this drawing.

- CONSTRUCTION RISKS:**
- Striking unknown services
 - Deep trenches
 - Leptospirosis

- MAINTENANCE / CLEANING RISKS:**
- Leptospirosis

Notes:

- DO NOT SCALE FROM THIS DRAWING.
- All dimensions are in millimetres Unless Noted Otherwise (u.n.o.)
- Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.
- All levels and dimensions are to be checked on site before any work commences.
- The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, reflectorised clothing, and the use of any other required safety equipment.

Drainage:

- Invert levels of existing manholes to be checked on site prior to commencing any drainage works.
- For positions of all rainwater pipes & foul outlets refer to Architect's drawings.
- All joints between precast manhole components shall have a minimum uncompressed thickness of 10mm of proprietary bitumen or resin mastic sealant.
- Storm & foul branch connections are to be laid at gradients of between 1:10 & 1:80
- All in-situ concrete shall be minimum grade GEN3.
- Precast concrete cover & reducing slabs to be heavy duty reinforced concrete to BS 5911.
- Rising mains shall be black MDPE SDR11 as WI 4-32-03 & joints & fittings to be in accordance with WI 4-32-04. Other approved pipe materials to be in accordance with their relevant BS.
- Manhole covers & frames shall be manufactured in cast iron or ductile iron & shall comply with requirements of BS EN 124 & shall be kite marked or equivalent.
- Where there is no intermediate manhole between the start of a surface water pipe run and the soakaway the gradient of the run shall be not less than 1 : 60.
- All completed work shall be suitably protected from damage by construction work. Damaged drainage will not be accepted. It is recommended that no heavy loading or underground work is permitted above or near unprotected drainage, and that dumpers, trucks, fork lifts or other heavy vehicles are not driven along or near pipe runs.

P2	06/10/2022	Amended to suit latest strategy	NN / AGS
P1	22/06/2022	Issued for comments	NN / AGS
Rev	Date	Description	By / Chk



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Architect:
Office S&M

Project:
**Goldsmith Mews Houses
Lower Higham Road, Gravesend
DA12 2ND**

Title:
Drainage Construction Details

Status:
PRELIMINARY

Engineer:	NN	Date:	June 2022
Drawn:	NN	Scales @	A1:
Checked:	AGS	As Shown	
Project No:	82455	Drg No:	102 Rev: P2