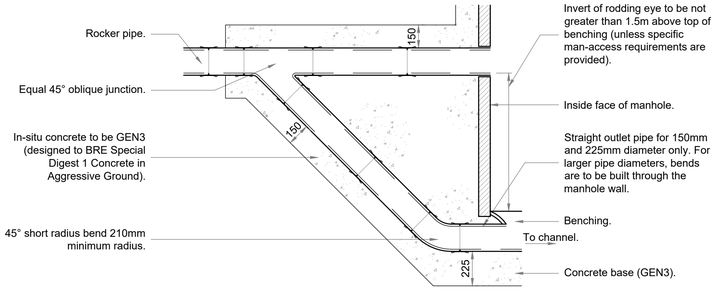
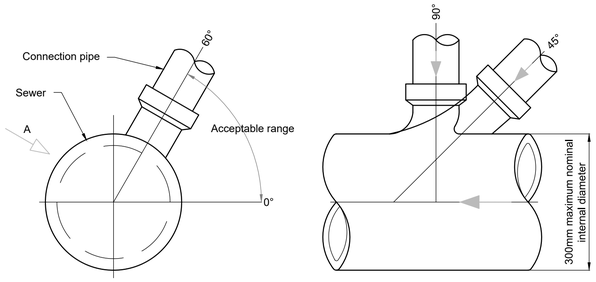


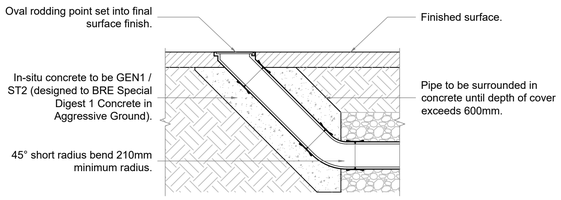
External ramped backdrop
Scale 1:20



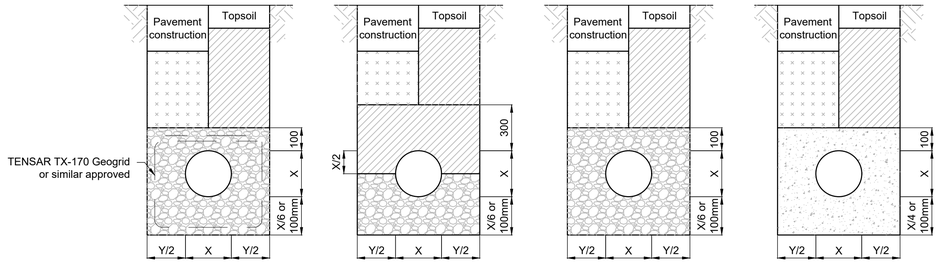
Cross-sectional view of sewer

Plan viewed in direction of arrow - A

Connection to sewers
Scale 1:20



Rodding eye
(to be used in non-vehicular areas only)



Pipe Bedding & Surround
(To be used in areas of soft damp soil where drainage is at risk of settlement)

Type B pipe bedding
(to be used where directed by the Engineer)

Type S pipe bedding
(Generally to be used to all pipes with cover from finished surface to crown greater than 900mm in trafficked areas or greater than 600mm cover in landscaped areas or under buildings.

Type Z pipe bedding
(Generally to be used to all pipes with cover from finished surface to crown less than or equal to 900mm in trafficked areas or less than 600mm cover in landscaped areas or under buildings.

Key

- Selected as-dug material (maximum aggregate size 40mm).
- Type 1 granular material to SHW Clause 803.
- Granular material. Single size aggregate to BS EN 13242 and SHW Clause 803.3(i) including Table 5/3
- GEN1 Concrete (18mm compressible boards to be inserted at all pipe joints).
- 0/20mm filter material Type A to SHW Clause 505 and Table 5/5.
- 20/40mm filter material Type B to SHW Clause 505 and Table 5/5.

To be used under:
1. Vehicular areas where cover to pipe soffit is greater than 1200mm.
2. All non-vehicular areas where cover to pipe soffit is greater than 900mm

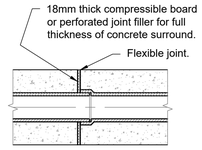
NOTES:
1. X = Outside diameter (OD) of pipe.
2. The first 300mm of fill above the crown of the pipe shall not be mechanically compacted.
3. Geotextiles may be used, where directed by the Engineer, to contain bedding material in certain soils, such as running sand.
4. In very wet conditions, or where directed by the Engineer, a temporary land drain may be laid within the granular bed.

Note:-
For dimensions 'X' and 'Y' refer to table P1 below

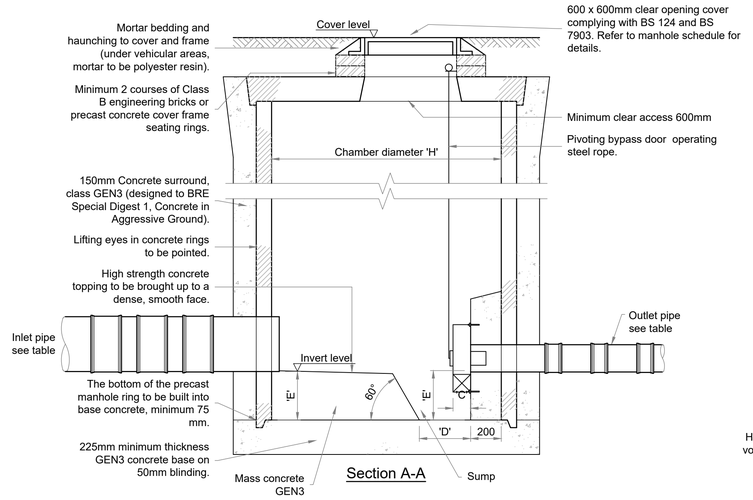
Table P1: Trench widths and granular fill

Pipe (X) size	Y (mm)	Granular fill
100	400	10mm nominal size single stone
150	400	10, 14mm nominal size single stone
225 - 300	500	10, 14, 20mm nominal size single stone
375 - 450	700	
525 - 675	700	
750 - 1200	850	
1350 - 1800	1000	

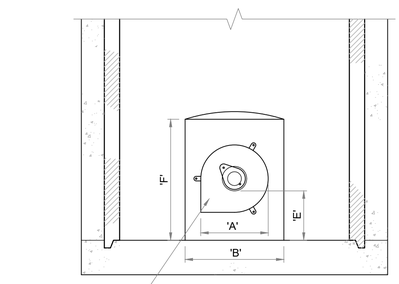
Pipe bedding details



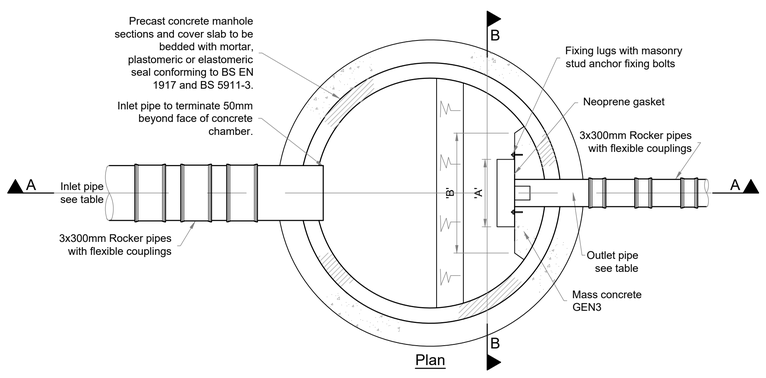
Movement joint for pipes with concrete bed and surround



Section A-A



Section B-B



Plan

Hydrobrake chamber (type 1, simple control)
Scale 1:20

Hydrobrake Technical Specification

Note: an equivalent vortex flow device may be used subject to meeting the minimum specifications provided below:

Grade 304 stainless steel vortex flow control unit with integral stainless steel pivoting bypass door allowing clear line of sight through to outlet, c/w stainless steel operating rope. Stainless steel fixings and neoprene gasket seal to outlet.

Manhole Reference:	Flow Control MH		
Cover Level (m):	4.00	Invert Level (m):	2.50
Hydrobrake Reference:	SHE-0078-2200-0500-2200		
Design Head (m):	0.50		
Design Flow (l/s):	2.20		
Inlet Pipe diameter (mm):	150		
Outlet Pipe diameter (mm):	150		
Dimension 'A' (mm):	310	Dimension 'E' (mm):	270
Dimension 'B' (mm):	515	Dimension 'F' (mm):	660
Dimension 'C' (mm):	85	Dimension 'G' (mm):	NA
Dimension 'D' (mm):	170	Dimension 'H' (mm):	1200

Note: proprietary products shall be installed strictly in accordance with manufacturers details and specification.

Notes

1. Do not scale from this drawing on print or electronically. Work from figured dimensions only.
2. No deviation from the details on this drawing is allowed without CampbellReith's prior permission in writing.
3. Read this drawing with all Architect's, Service Engineer's and CampbellReith's relevant details, specifications and drawings.
4. All work is to be done in accordance with the relevant specifications issued by CampbellReith, British Standard Codes of Practice, Statutory Requirements and the Contract Documents.
5. Drawing status:
   - **P: Preliminary** — Evolving drawings for approvals, tenders, billings etc.
   - **C: Construction** — Fully developed drawings issued under instructions for construction.
6. Only status **C** drawings to be used for construction.
7. Suitability code:

Work in progress
S0 - Work in progress
Shared (Non-contractual)
S1 - For coordination, **S2** - For information, **S3** - For internal review and comment, **S4** - For construction approval.
Documentation (For contractors purposes)
D1 - For Costing, **D2** - For Tender, **D3** - For contractor design, **D4** - for manufacture/procurement.
Construction
A - For construction, **B** - For construction but with comments (i.e. areas in abeyance), **CR** - Construction Record (Final Construction ONLY. Any deviations to that which is on site is not the liability of CampbellReith)

Rev	Description	Date	By
P1	Issued for Tender	02.07.21	SH

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Job Title
Central Arun Crematorium

Client
Westerleigh

Drainage Construction Details
Sheet 2

Drawn by	Date made	Scale @ A1	Checked by	Suitability	CR Project
SH	June'21	As Shown	AJH	S2	13591

Project No.	Originator	Volume	Lvl/Loc	Type	Role	Number	Rev
13591	CRH	XX	XX	DR	C	5302	P1

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