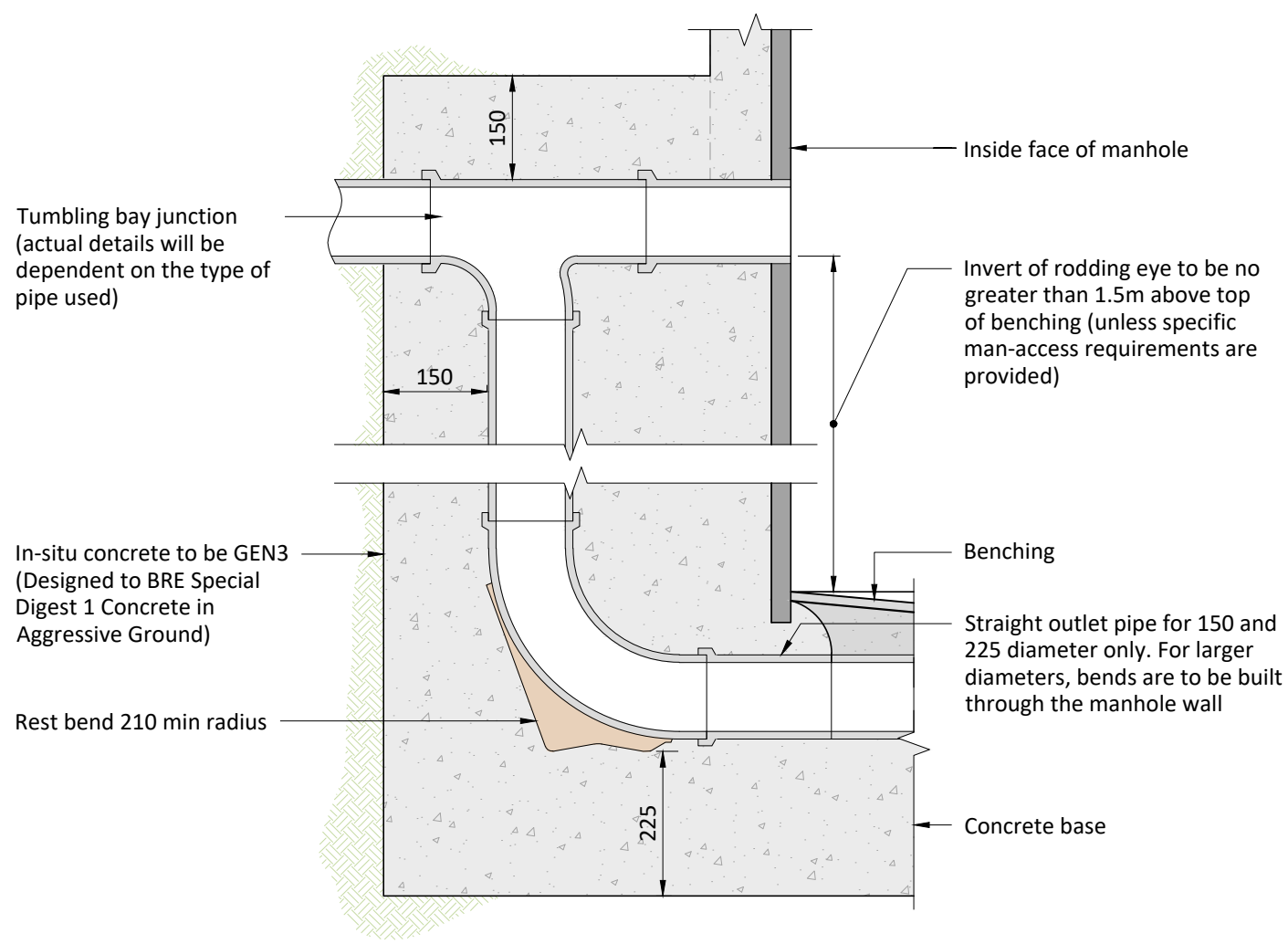
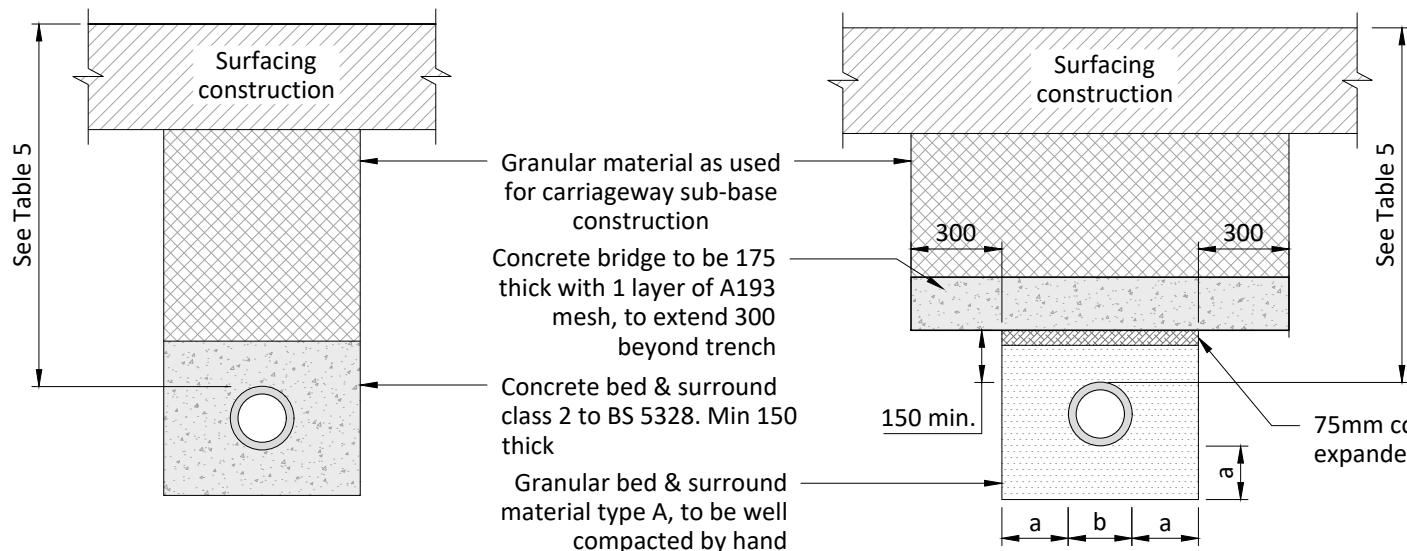
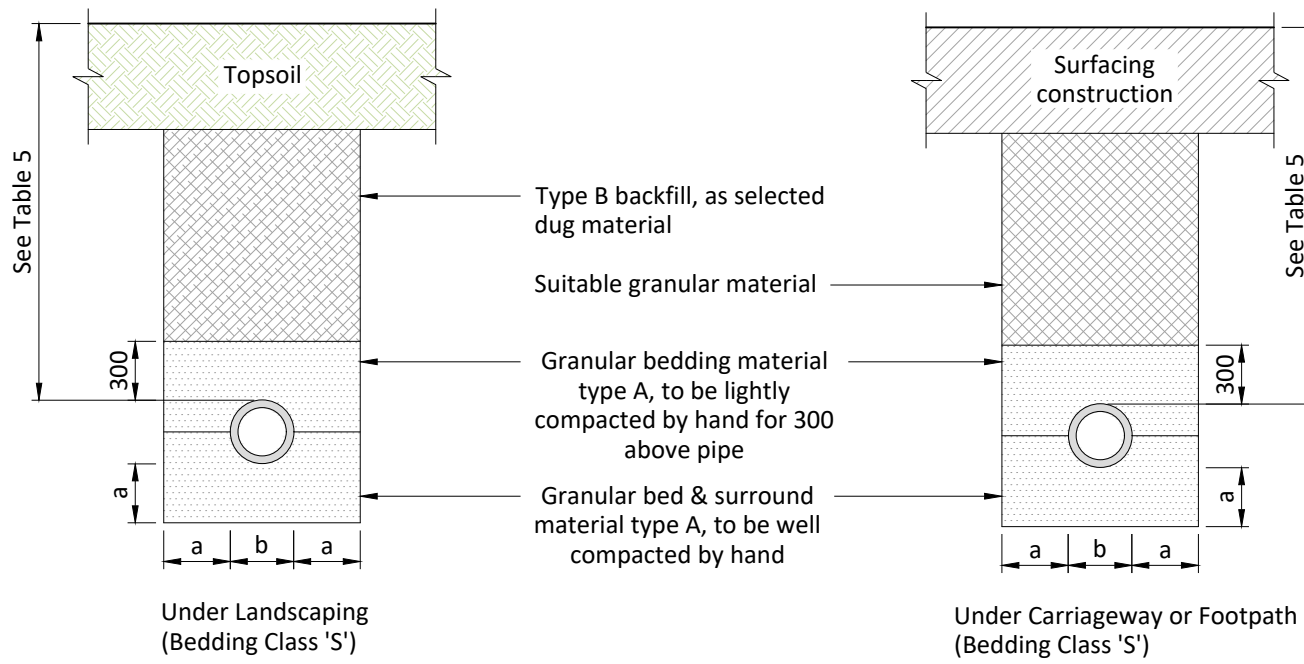




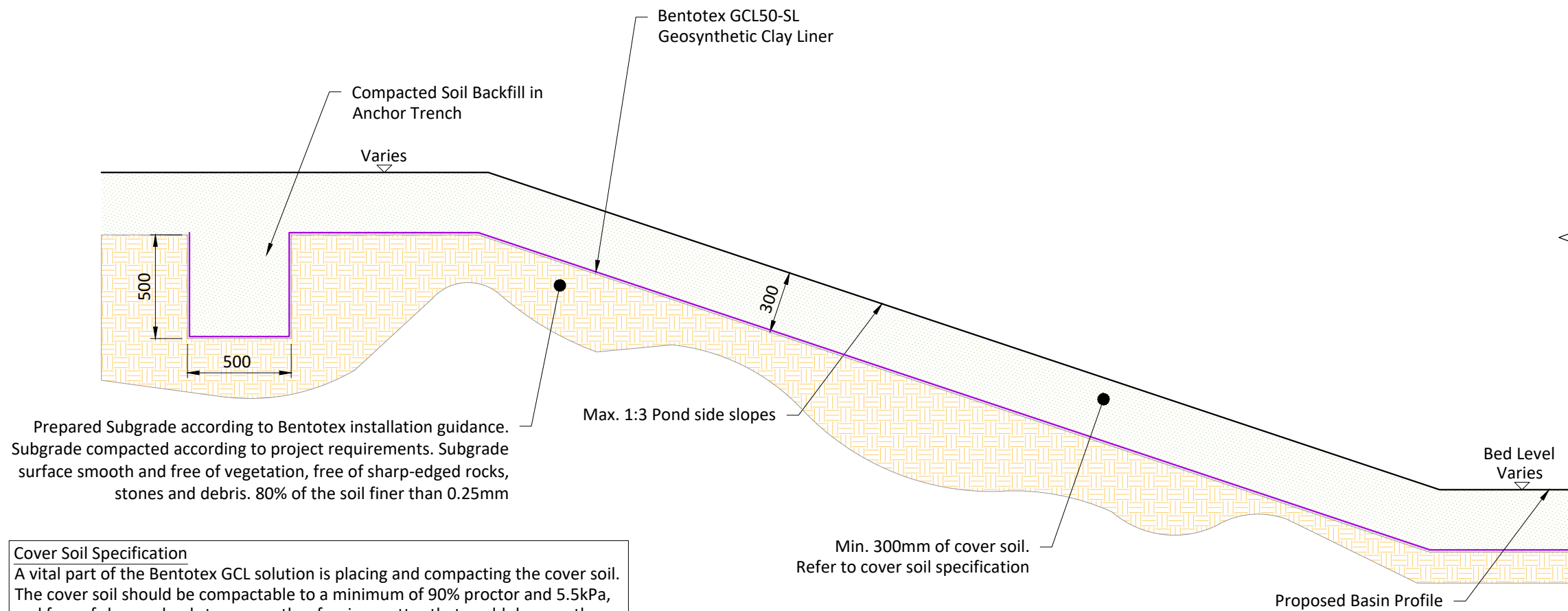
Typical Vertical Backdrop Detail
(Scale 1:10)



At each flexible pipe joint a joint filler (e.g. fibreboard or polystyrene) shall be used, and shall extend through the full thickness of any concrete in contact with the pipe. The concrete bed shall be cut away at each joint to give a clearance of at least 50mm, so that the joint does not bear on the road.

a=b/4 but with min 200 around the barrels and 150 around the sockets

Pipe Bedding Details
(Scale 1:25)



Typical Section Through Ponds
(Scale 1:25)

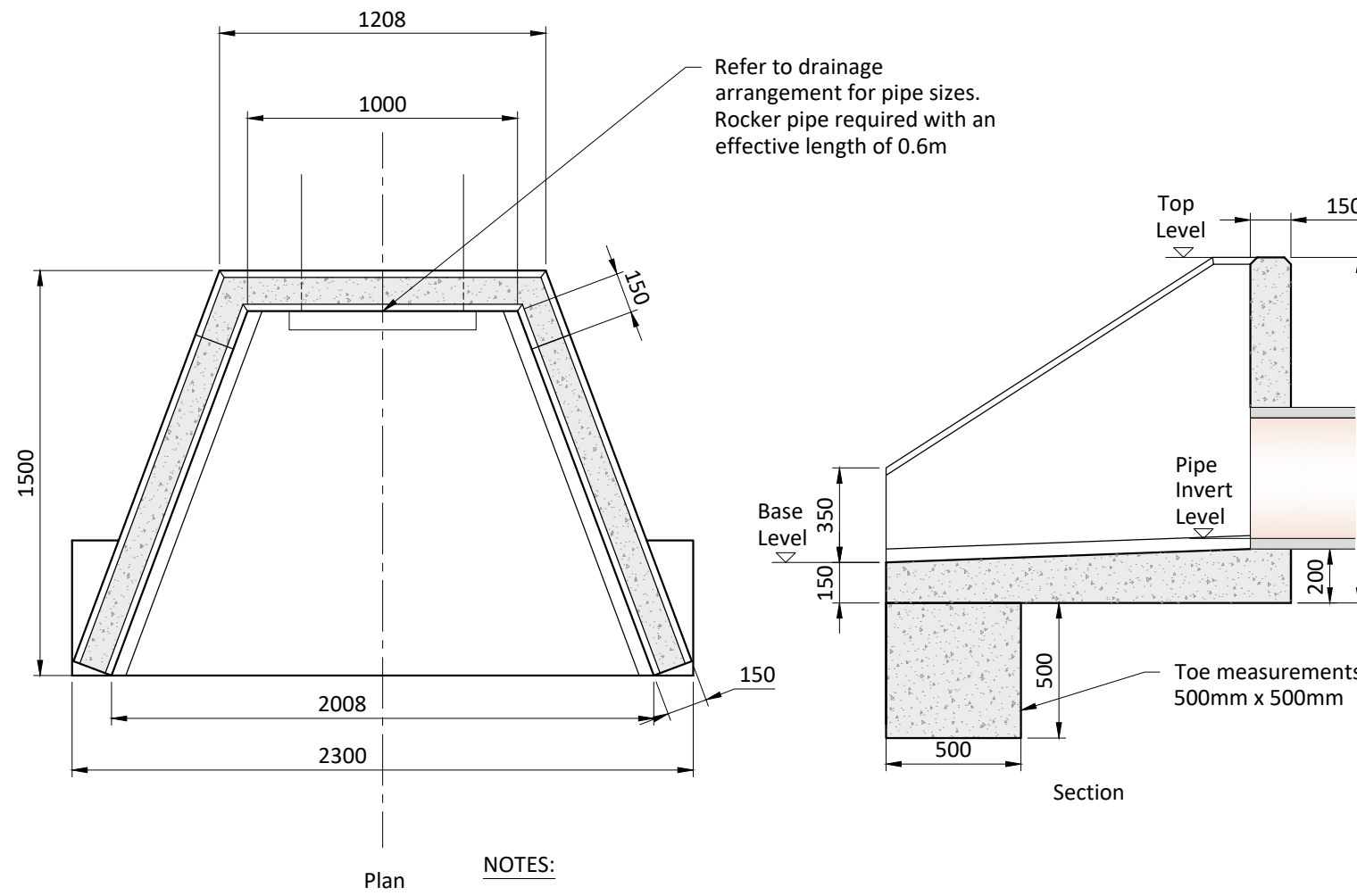
Pipe Bedding & Backfill Specification

- Materials used for Bedding shall conform to the Water Industry Specification (WIS 4-08-02).
- Material designated type 'A' shall consist of angular gravel or crushed rock graded in accordance with B.S. 882, or air cooled blast furnace slag to B.S. 1047, or sintered pulverised fuel ash to B.S. 3797, selected according to pipe size as follows:-

Nominal size of pipes (mm)	Maximum particle size (mm)	Imported granular materials
100	10	10mm nominal single-size
over 100 to 150	15	10 or 14mm nominal single-size or 14mm to 5mm graded
over 150 to 300	20	10, 14 or 20mm nominal single-size or 14mm to 5mm graded or 20mm to 5mm graded
over 300 to 600	20	14 or 20mm nominal single-size or 14mm to 5mm graded or 20mm to 5mm graded
over 600	40	14, 20 or 40mm single-size or 14mm to 5mm graded or 20mm to 5mm graded or 40mm to 5mm graded
- Approved backfill material to be Type 1 granular material to SHW clause 803 compacted in layers not exceeding 150mm beneath roads and pavements.
- Material designated type 'B' used under gardens and verges shall consist of uniform readily compactable material, free from tree roots, vegetable matter, building rubbish and frozen soil, and excluding clay lumps retained on a 75mm sieve, and excluding clay of liquid limit greater than 80 and/or plastic limit greater than 55 as per BS EN 1610:2015 Cl 5.2 and 5.3 Material to be compacted in max 225mm layers. Material to be graded according to pipe size as follows:

Nominal size of pipes (mm)	Maximum particle size (mm)
200 or less	22
201 to 600	40
over 600	60

Nominal size of pipes (mm)	Maximum particle size (mm)
200 or less	22
201 to 600	40
over 600	60



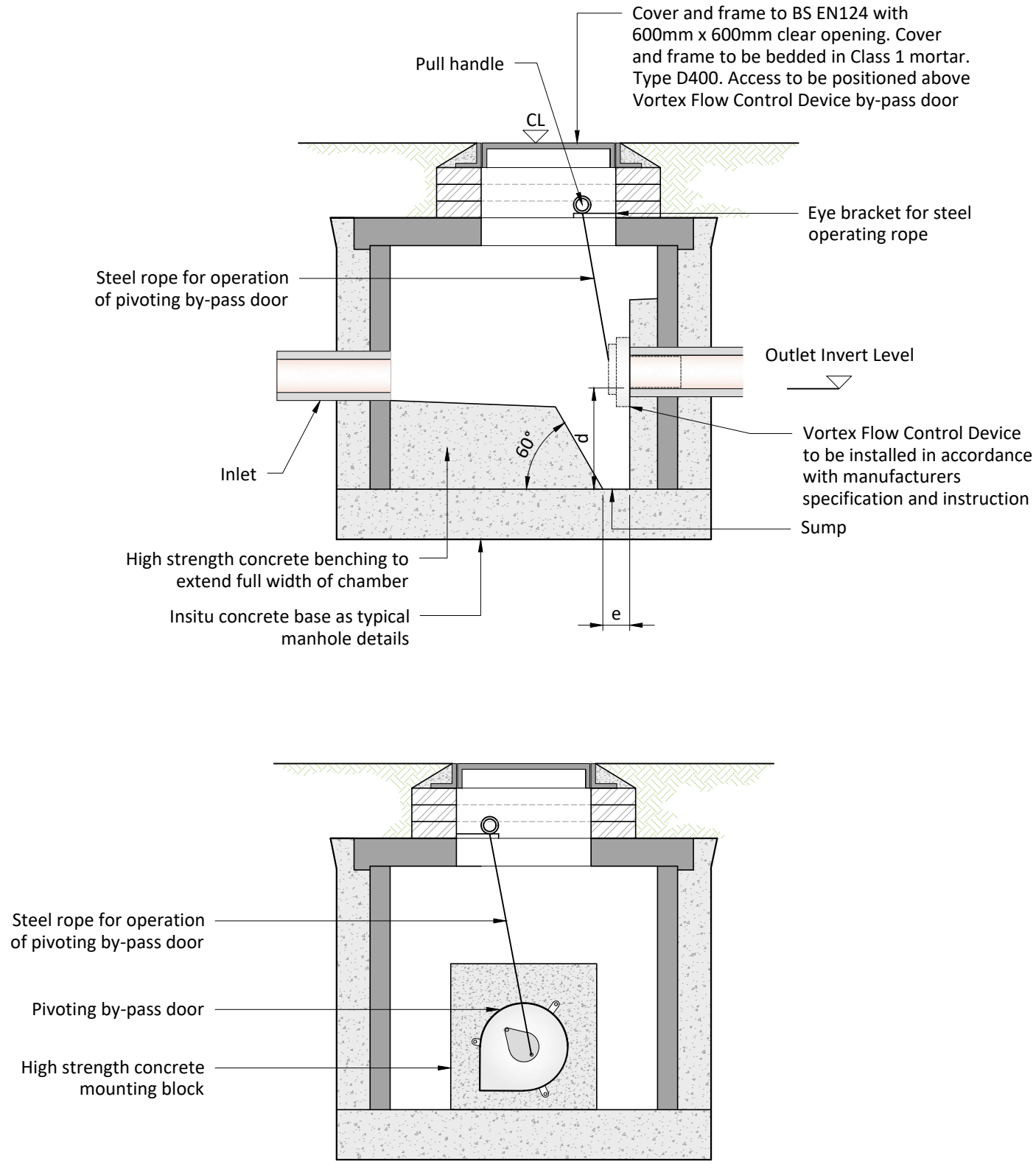
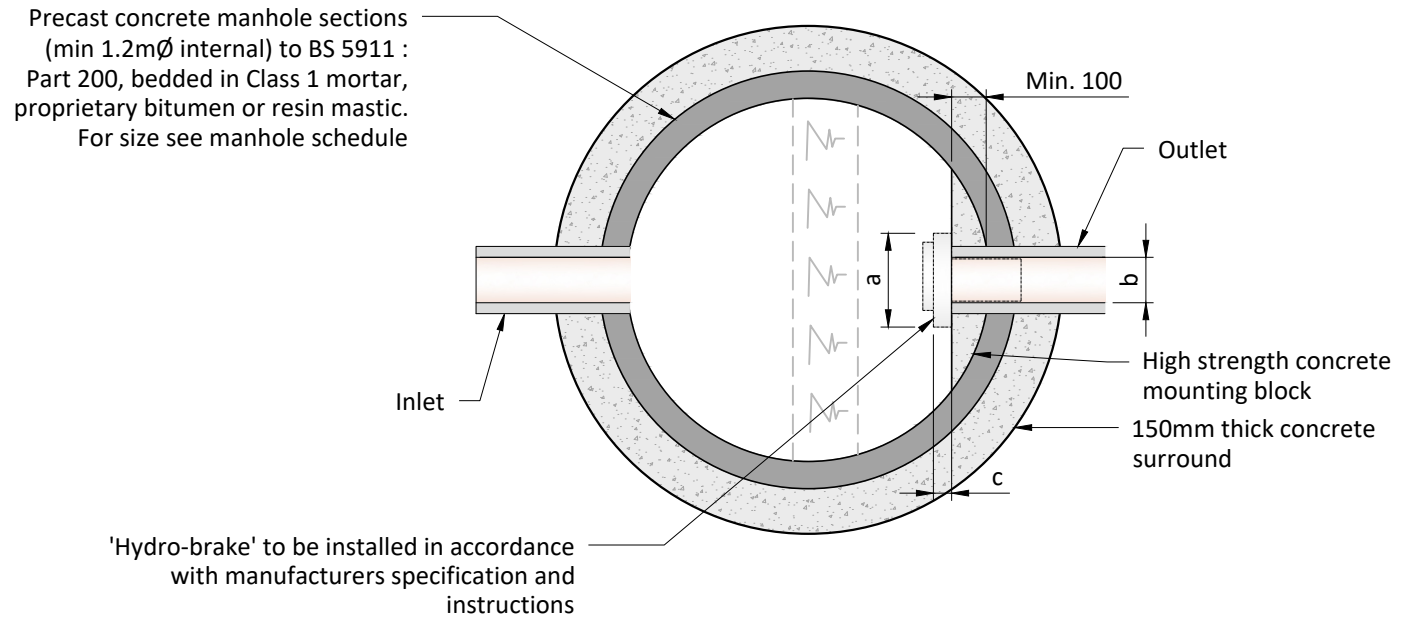
NOTES:

- Headwalls to be installed in accordance with manufacturers recommendations.
- Headwalls to comply with SSG guidelines.
- Dimensions shown are typical and are TBC by manufacturer.
- Hinged and lockable safety grille required for pipes of 350mm diameter or larger.

Typical Pre-Cast Headwall Construction Detail
(Scale 1:25)

Vortex Flow Control Specification

Manhole Ref.	Hydro-Brake Unit Ref.	Unit Width (mm) (a)	Unit Outlet Dia. (mm) (b)	Unit Depth (mm) (c)	Min Sump Depth (mm) (d)	Min Sump Width (mm) (e)	Hydro-Brake Design Head (m)	Hydro-Brake Design Flow (l/s)
SS27	CTL-SHE-0152-1200-1400-1200	715	225	160	425	320	1.40	12.0
SS34	CTL-SHE-0108-6500-1750-6500	660	150	155	400	230	175	6.5



Vortex Flow Control Chamber
(Scale 1:25)

HEALTH, SAFETY & ENVIRONMENT

It is the responsibility of the client to ensure that those undertaking the works are competent and experienced in the type of work to be undertaken.

In addition to the hazards usually associated with the types of work detailed on this drawing, the following specific hazards have been identified through design risk assessment. The planning and execution of the works should take into account all usual and specific hazards.

Hazards should also be taken into account in the maintenance, operation, decommissioning and demolition of the works.

- Flood Zone to Southern Boundary
- Dewatering and Risk of Excavation Stability/Collapse
- Risk of Historic Mining Pits
- Risk of Chalk Dissolution

NOTES

- All dimensions are in millimetres (mm) and levels in metres Above Ordnance Datum (mAOD) unless noted otherwise.
- Do not scale from this drawing.
- The copyright in this drawing belongs to Structa LLP; the designs and details may not be used on any project other than that indicated in the titleblock.
- Where CAD or BIM files of the drawing are issued, they are provided for the convenience of others, and shall not be used for construction purposes or relied upon for accuracy or completeness.
- Adoptable drainage to be constructed in accordance with Sewerage Sector Guidance ("The Code").

P1	05.08.26	FIRST ISSUE	SH	TL	TJS
Rev.	Date	Description	Drawn	Checked	Approved

NOT FOR CONSTRUCTION

Bellway

LAND AT PARK LANE, CHARVIL

ADOPTABLE DRAINAGE
CONSTRUCTION DETAILS
SHEET 2

- Structural
- Civil
- Geo-environmental

structa

London | Hemel Hempstead | Swindon | Warwick | www.structa.co.uk

Drawing No: 7318-1232
Revision: P1

SCALE 1 : 20 @ A1

