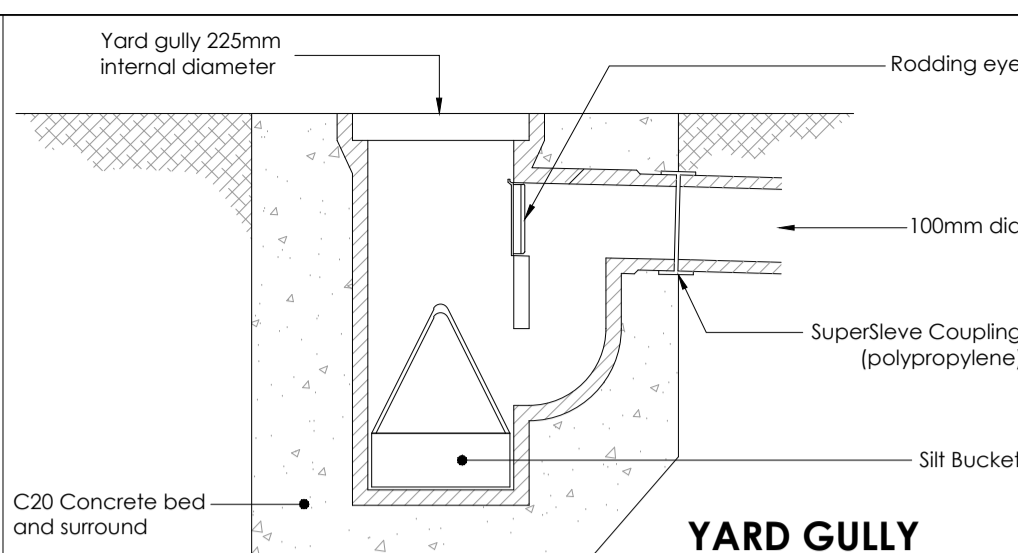
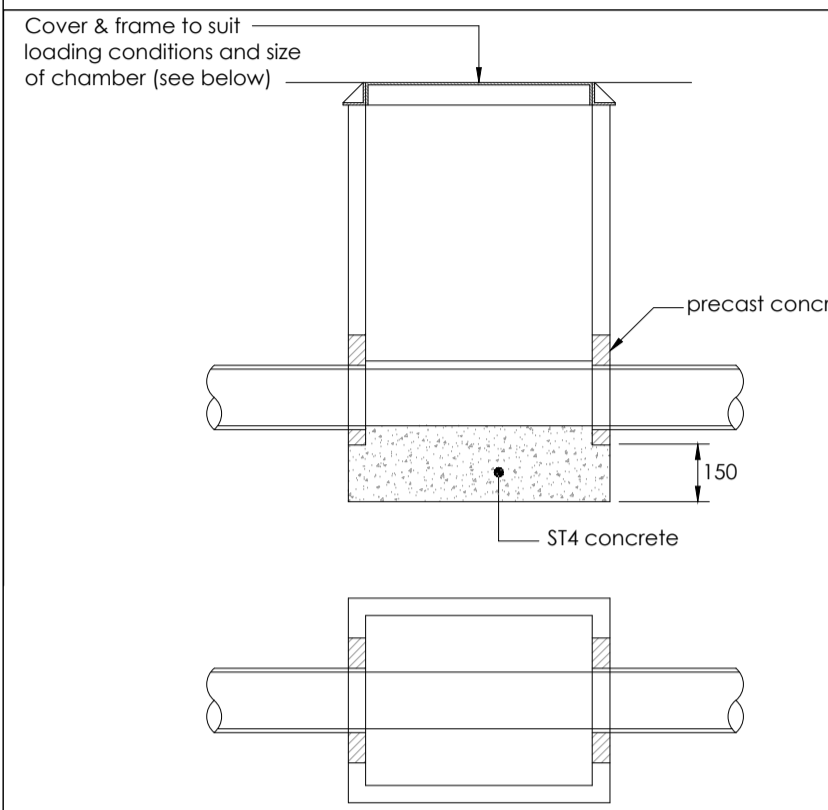


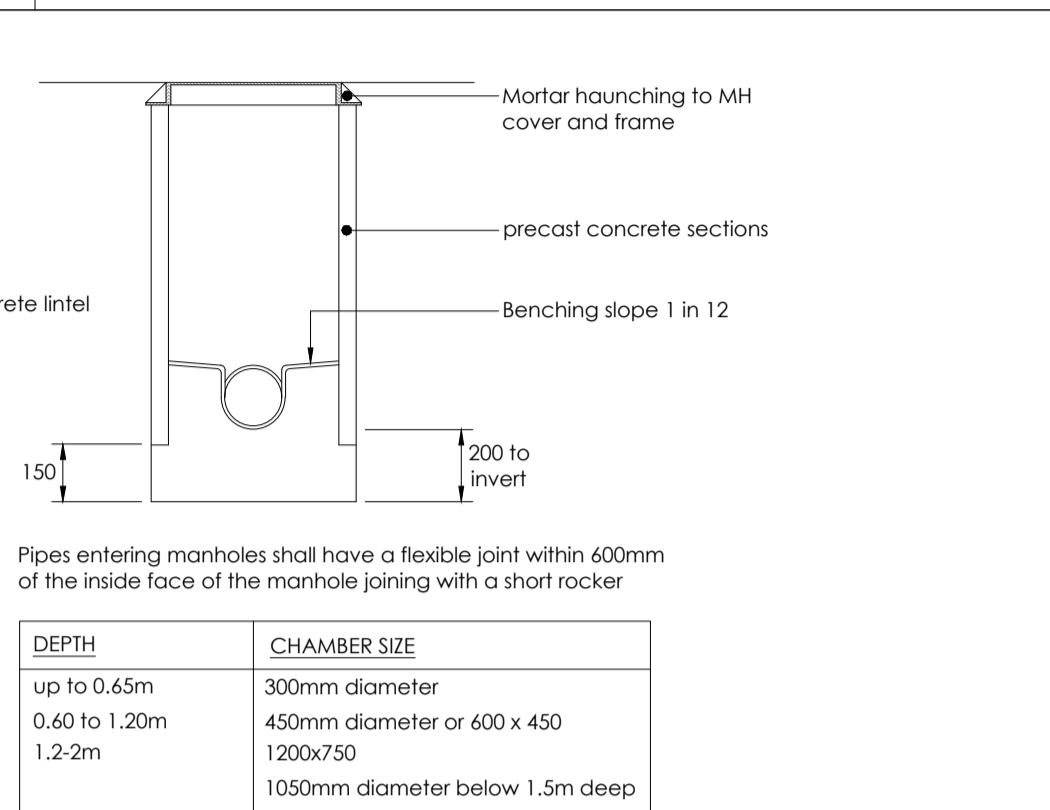
**RODDING EYE INSTALLATION**



**YARD GULLY**



**TYPICAL INSPECTION CHAMBER**

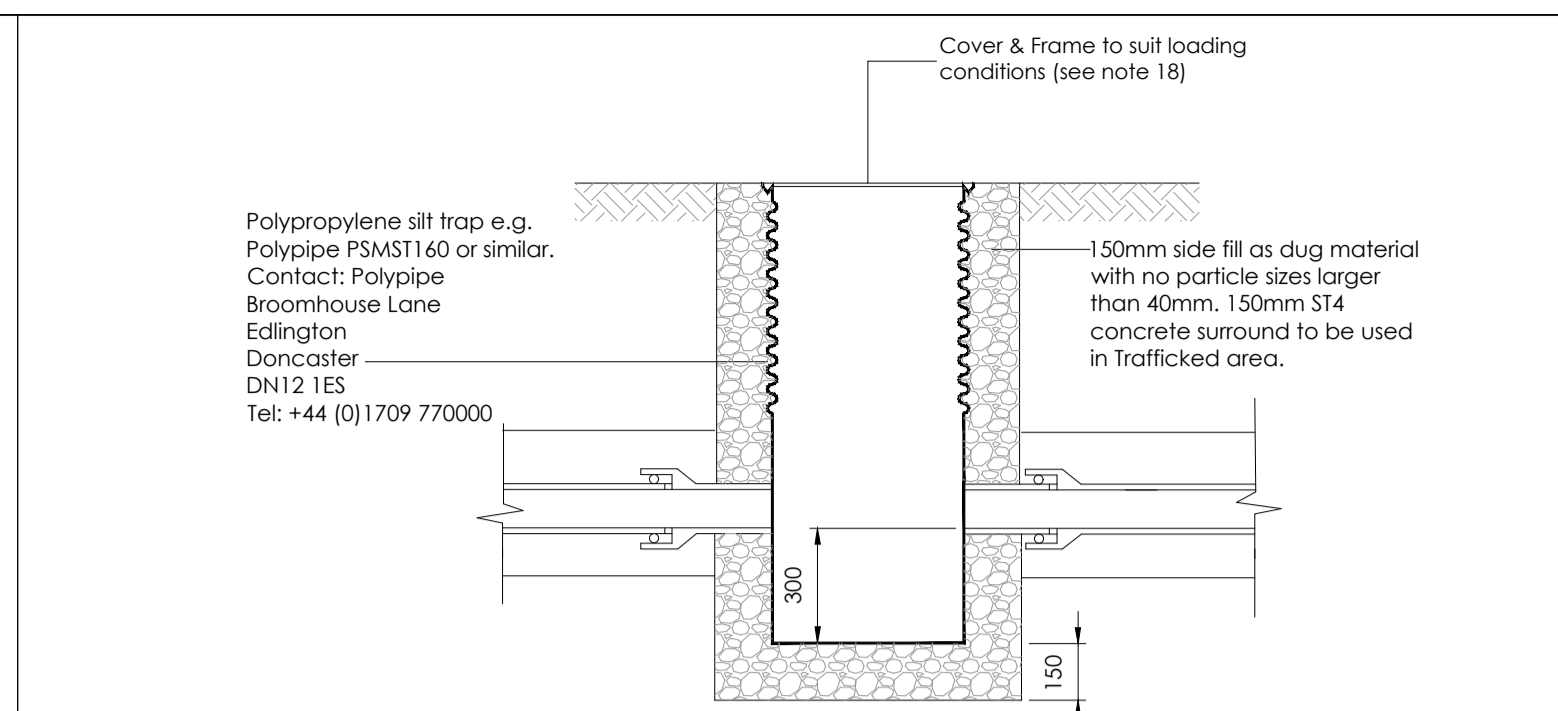
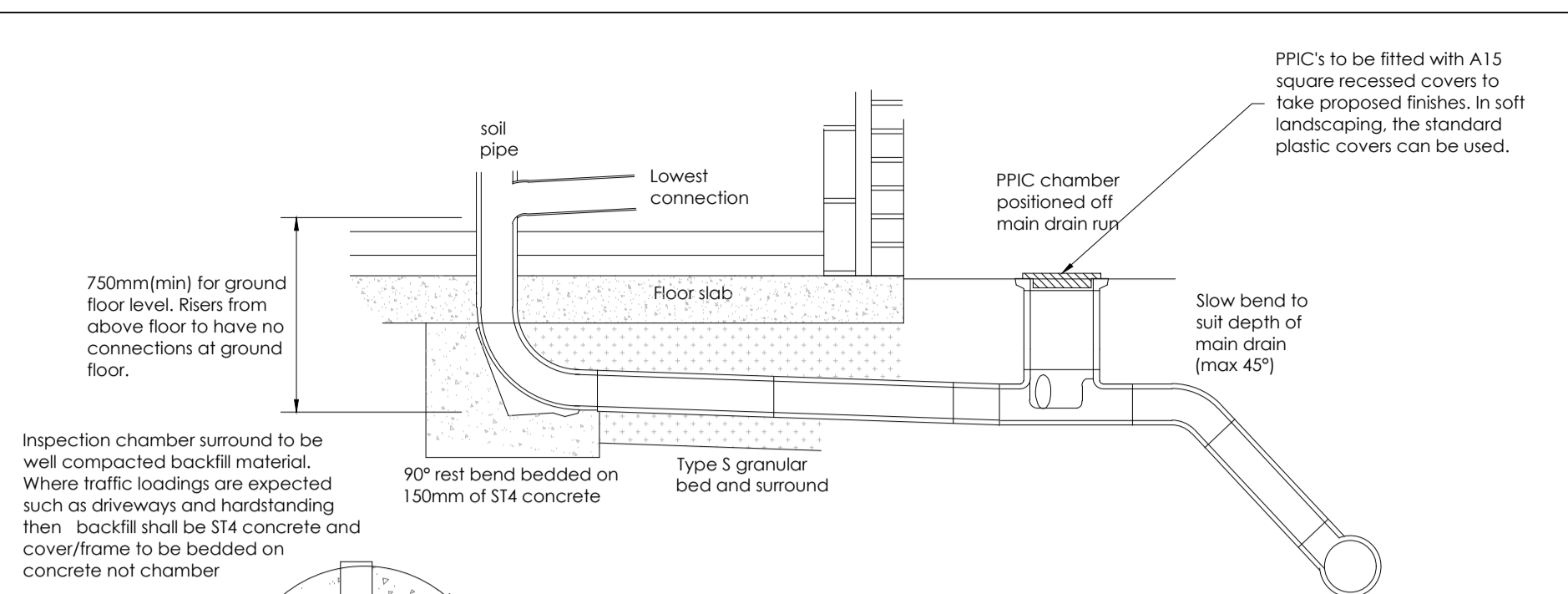


**POLYPROPYLENE INSPECTION CHAMBER - PPIC**

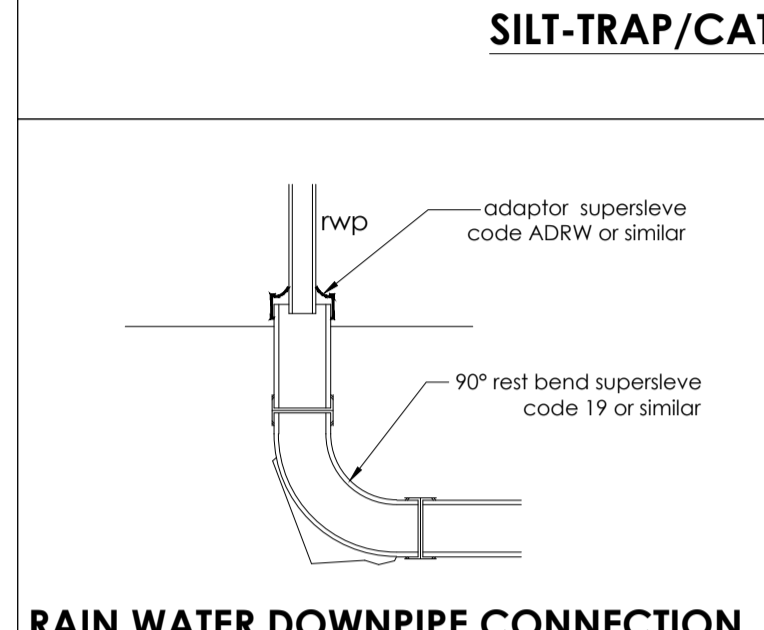
**MINI ACCESS CHAMBER**

Chamber Type	Internal Diameter	Max No Inlets	Max Depth
Polypropylene Mini Access Chamber (max)	300	3	600
Polypropylene Inspection Chamber (PPIC)	475	5	1250

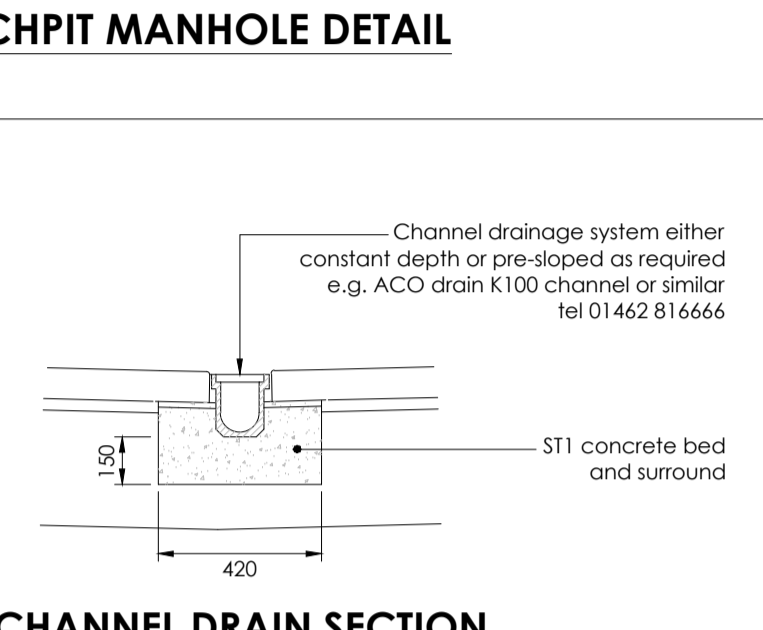
Pipes entering manholes shall have a flexible joint within 400mm of the inside face of the manhole joining with a short rocker  
 or as governed by no. of connections and Code of Practice BS 6301



**SILT-TRAP/CATCHPIT MANHOLE DETAIL**



**RAIN WATER DOWNPIPE CONNECTION**



**CHANNEL DRAIN SECTION**

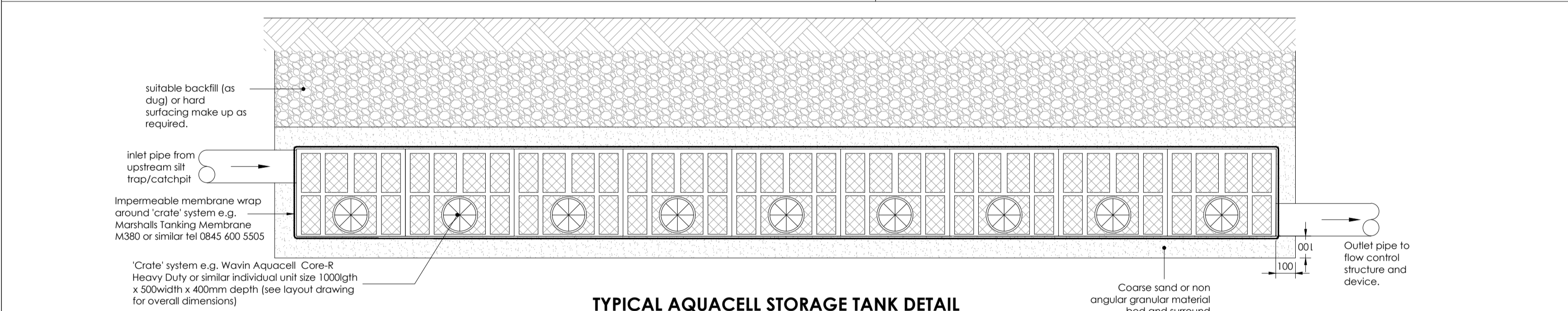
- NOTES**
- All dimensions and levels are in metres unless otherwise noted
  - This drawing is to be read in conjunction with the relevant Architect's/Engineer's drawings, specifications and CDM4 documentation
  - This drawing has been produced electronically and may have been photo reduced or enlarged when copied. Work to figured dimensions only (DO NOT SCALE - EXCEPT FOR PLANNING PURPOSES). All dimensions to be checked on site. Any errors or omissions to be reported to the engineer immediately.
  - This drawing contains coloured lines / information that may not be clear if reproduced in black and white.
  - Digital copies of this plan can only be considered accurate if supplied directly by Infrastruct CS Ltd.

**DRAINAGE NOTES**

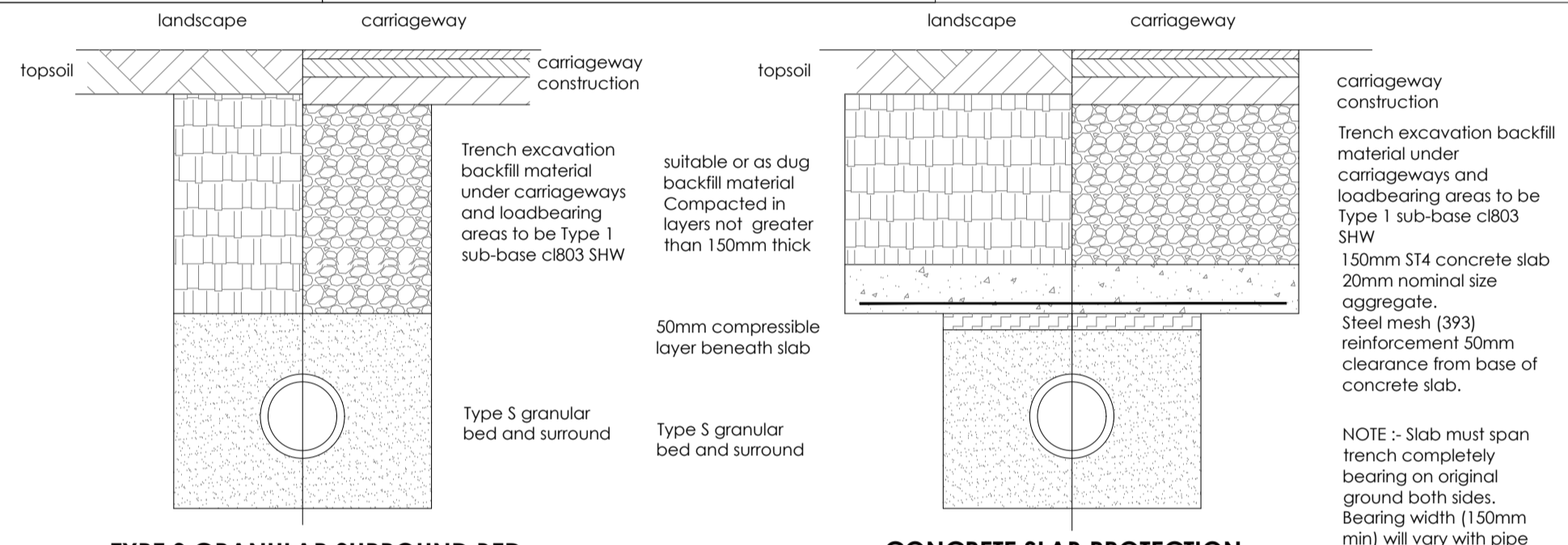
- Private drainage must comply with the current edition of DTLR Building Regulations approved document H.
- Where drainage is to be adopted it should meet with the requirements of Sewers for Adoption 7th edition.
- Drainage design to be to BS EN 752-3 1996
- Any intended changes to the drainage design must be discussed with the Engineer. If changes are made the Engineer must be supplied with as-constructed information to enable drawings to be suitably updated for the Health & safety file.
- Before works commence the contractor should satisfy themselves that the details of the drainage system to be connected into are correct i.e. cover, invert levels, line, condition and type of sewer.
- Private access chambers are to be appropriate to the depths and loadings as follows:
 

Depth to invert up to	Access size
0 to 1.200mm	Mini access chamber 300mmØ
1.200 to 1.500mm	Inspection chamber 475mm Ø (PPIC)
	600mmx450mm Brick/P.C.C units
	P.C.C ring manhole 1050mmØ
- All manholes shall have a flexible joint within 150mm of the face of the structure and a 'rocker pipe' which should not exceed 600mm in length.
- Pipe materials shall be:
  - Unvitified clayware to BS EN 295
  - Cast iron to BS EN 545:2010
  - UPVC - BS EN 1401 PP - BS EN 1852 Structure wall - BS EN 13476
- For private sewers having 900mm or less cover beneath carriageways & hardstanding or 600mm in landscape areas then they shall have concrete surround or slab protection. Slab protection to be 100mm thick C20 concrete slab with mesh reinforcement and a bearing of 150mm each side of the trench. Concrete surround to be 150mm C20 with flexible joints.
- Trenches within 1.2m of load bearing walls should be filled with concrete to at least to the underside of the foundation. Where the distance is more than 1.2m from the foundations the concrete should be taken at least up to a 45 degree line from the bottom of the foundations. Alternatively, the foundations could be taken to a deeper level to avoid undermining by the drainage trench (check with the Engineer where this is required).
- Pipe bed and surround to be granular Type S unless otherwise noted.
- Drains passing through walls or foundations should have either an arched or lintelled opening to give 50mm clearance around the pipe. The opening shall be masked both sides with a rigid non-perforated material, or alternatively a short length of pipe may be built in solid if it is connected within 150mm to rocker pipes (max 600mm long) with flexible joints.
- Drainage under buildings should be bedded and surrounded by at least 100mm of granular material.
- Unless otherwise stated on the drawings or in the schedules then all private drainage shall be 100mmØ.
- All road gully connections to be 150mmØ and surrounded with 150mm C20 concrete surround.
- Where schemes require soakaways they shall not be positioned closer than 5m from the nearest dwelling or structure. Where solution features can occur in the underlying strata such as chalk then this distance will need to be increased to 10m.
- New connections to existing public sewers should be carried in accordance with appropriate Section 106 (Water Industry Act) 'connection consent' and also under the supervision of the Water Authority.
- Covers shall be to B.S. EN 124:1994
 

Class	Use
Class A15	areas where only pedestrians have access.
Class B125	for use in car parks and pedestrian areas where occasional vehicular access is likely.
Class C250	areas where not extending more than 500mm from kerb face into the carriageway areas where cars and lorries have access including carriageways, hard shoulders.
Class D400	areas where heavy goods vehicles have access including carriageways, hard shoulders.
- Cover and frames to be 150mm deep except residential cut-de-sacs
- It is recommended that drainage works should be constructed from the outfall particularly where the outfall depth is relatively shallow. If it is not possible to commence works from the outfall the contractor should satisfy themselves that the invert, line, position and type of existing outfall are correct.
- Drainage works should be protected from possible damage by construction traffic loadings during the construction period. Protection may be provided by barriers, materials should not be stored over drainage works.
- Buildings up to 3 storeys shall have a rest bend at the base of the soil stack. 450mm min below the invert of the lowest incoming drain.

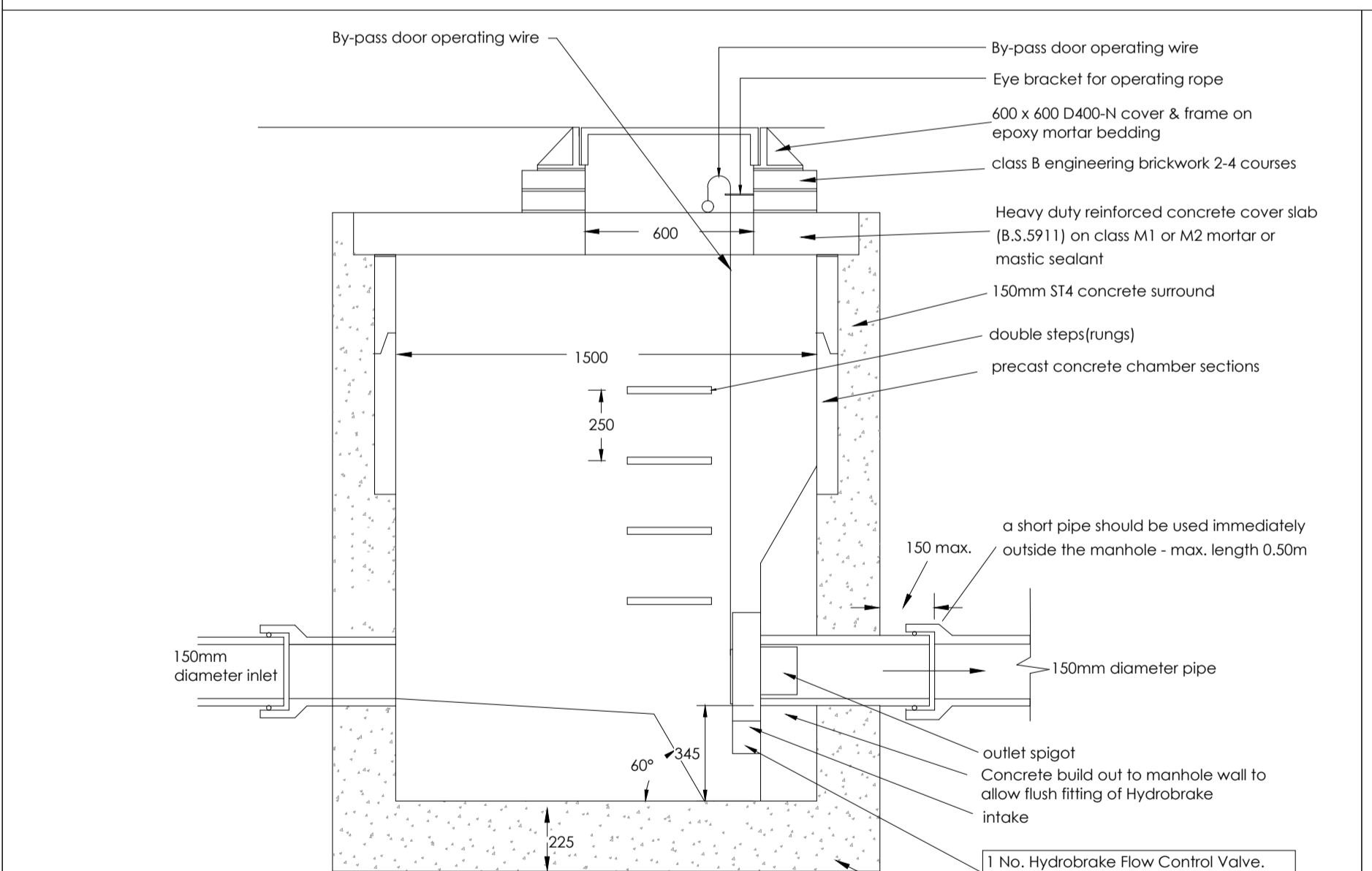


**TYPICAL AQUACELL STORAGE TANK DETAIL**

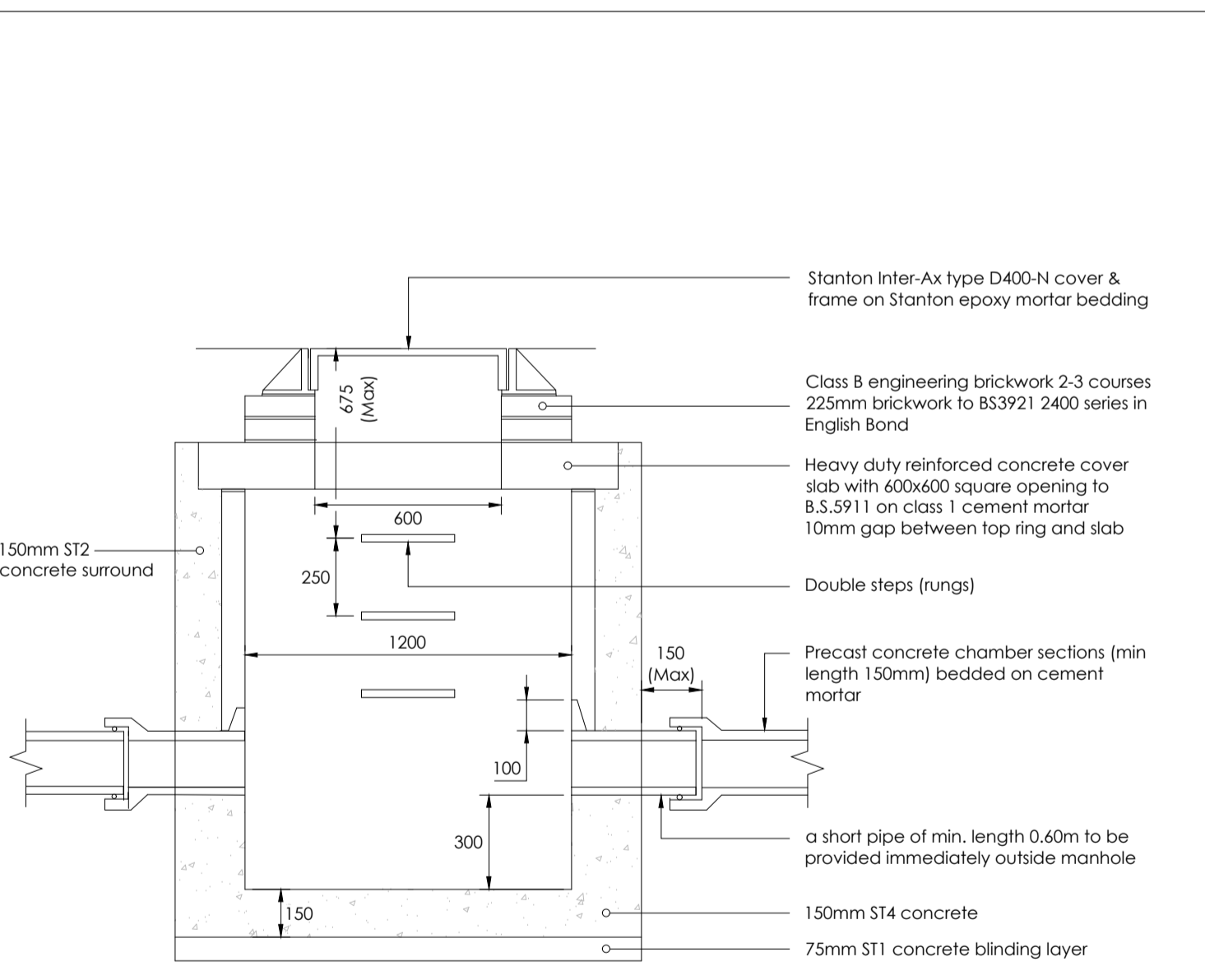


**TYPE S GRANULAR SURROUND BED**

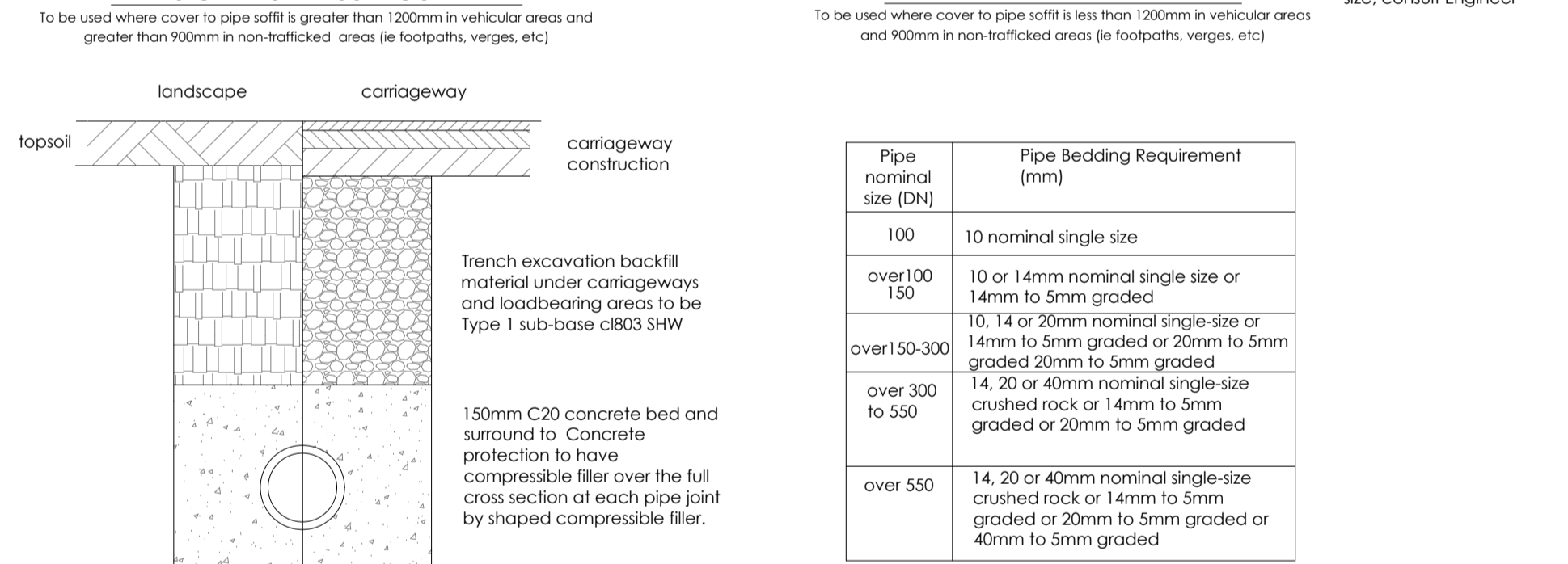
**CONCRETE SLAB PROTECTION**



**FLOW CONTROL DETAIL - S2**



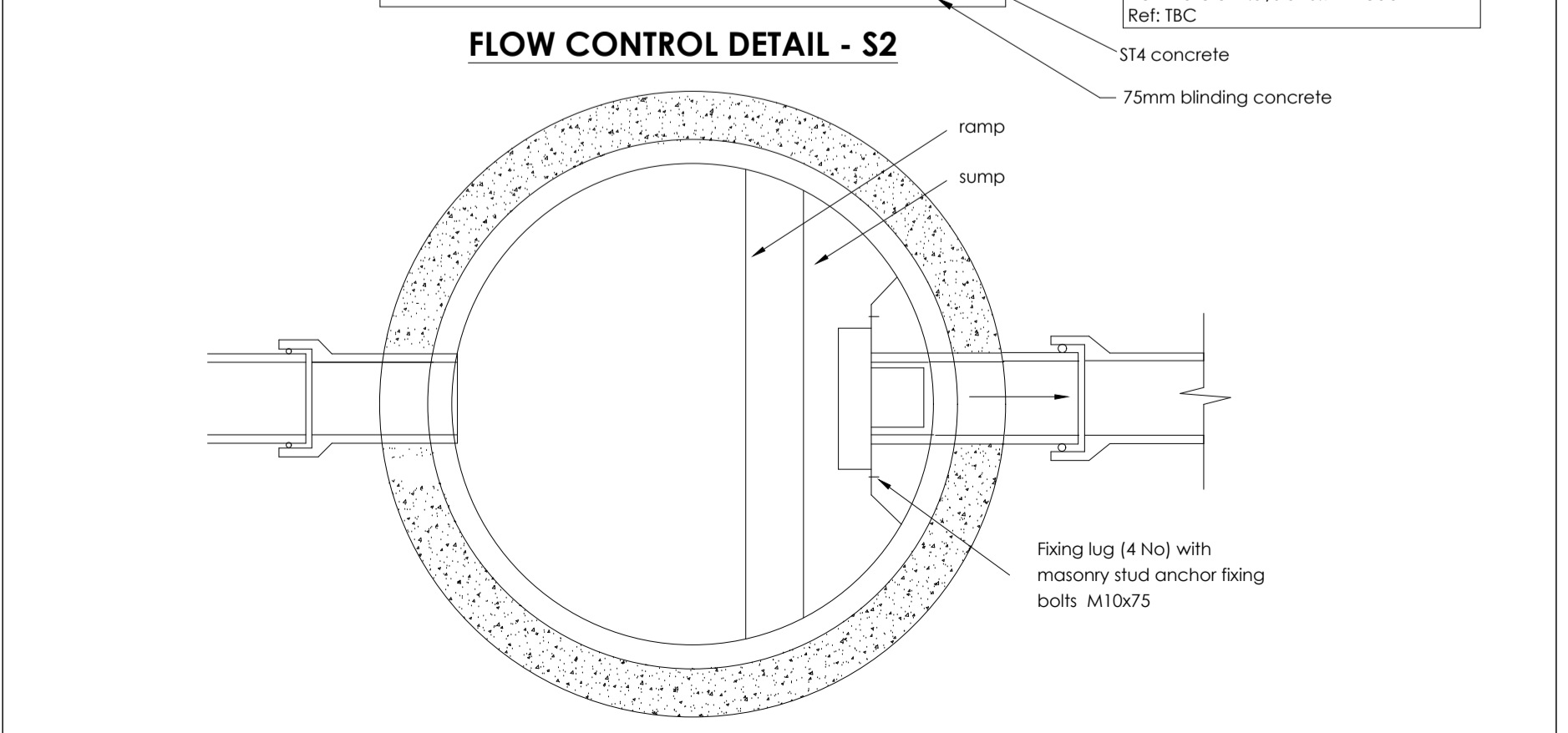
**TYPICAL CATCHPIT MANHOLE DETAIL**



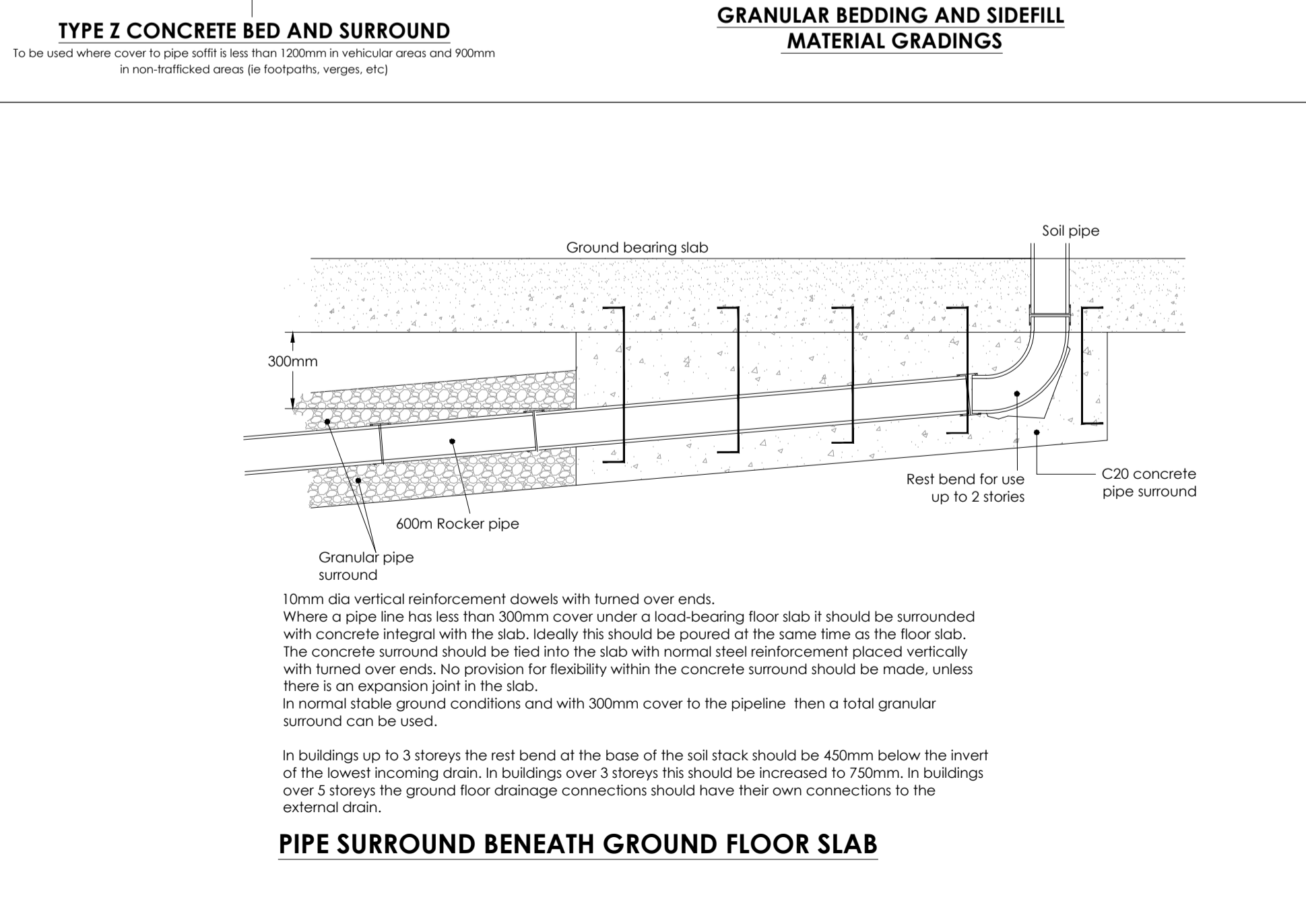
**TYPE Z CONCRETE BED AND SURROUND**

**GRANULAR BEDDING AND SIDEFILL MATERIAL GRADINGS**

Pipe nominal size (DN)	Pipe Bedding Requirement (mm)
100	10 nominal single size
over 100 - 150	10 or 14mm nominal single size or 14mm to 5mm graded
over 150 - 300	10, 14 or 20mm nominal single size or 14mm to 5mm graded or 20mm to 5mm graded
over 300 - 550	14, 20 or 40mm nominal single-size crushed rock or 14mm to 5mm graded or 20mm to 5mm graded
over 550	14, 20 or 40mm nominal single-size crushed rock or 14mm to 5mm graded or 20mm to 5mm graded or 40mm to 5mm graded



**PLAN VIEW**



**PIPE SURROUND BENEATH GROUND FLOOR SLAB**

PO1	NJ	TST	Initial Issue	09/10/25
REV	DRAWN	CHECK	REVISION COMMENTS	ISSUE DATE
DRAWING TITLE				SHEET NO.
Drainage Details				1/1
PROJECT				
Falling Lane, Yiewsley				
CLIENT				
bugler DEVELOPMENTS		Infrastruct CS Ltd		
SCALE @ A1				
Not To Scale				
ICS PROJECT NO.	STATUS	ISSUE PURPOSE	ENGINEER	NO. REVISION
5894	S2	INFORMATION	NJ	
BUGLER NO.	ORIGIN	VOLUME	LEVEL	TYPE
1263	ICS	XX	XX	DR
				C
				0400
				PO1