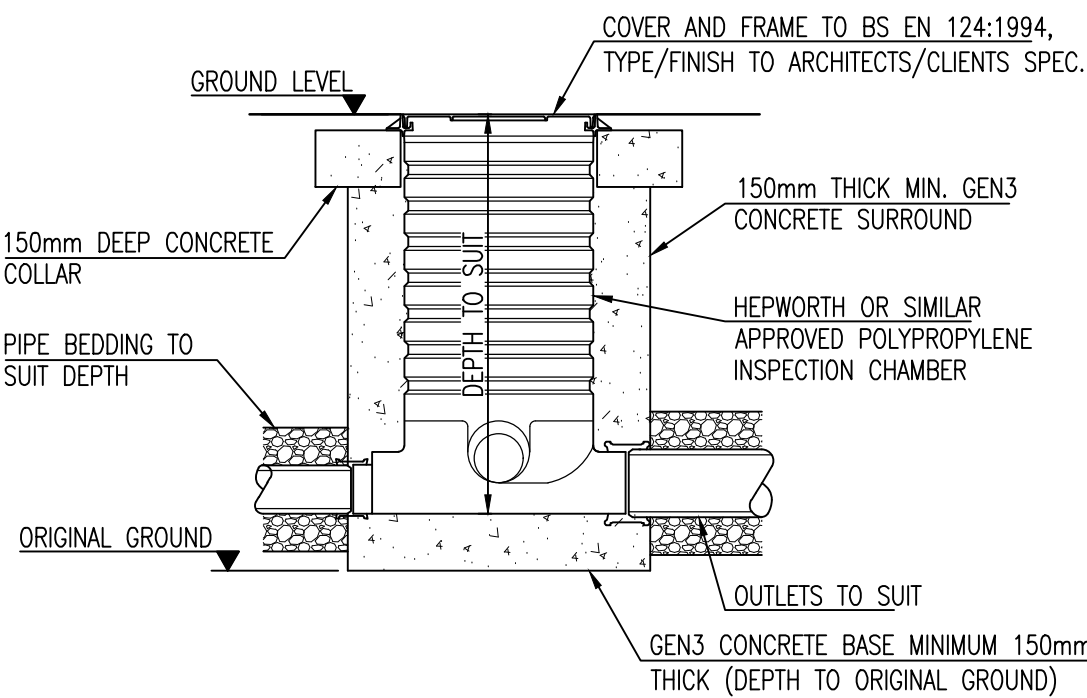
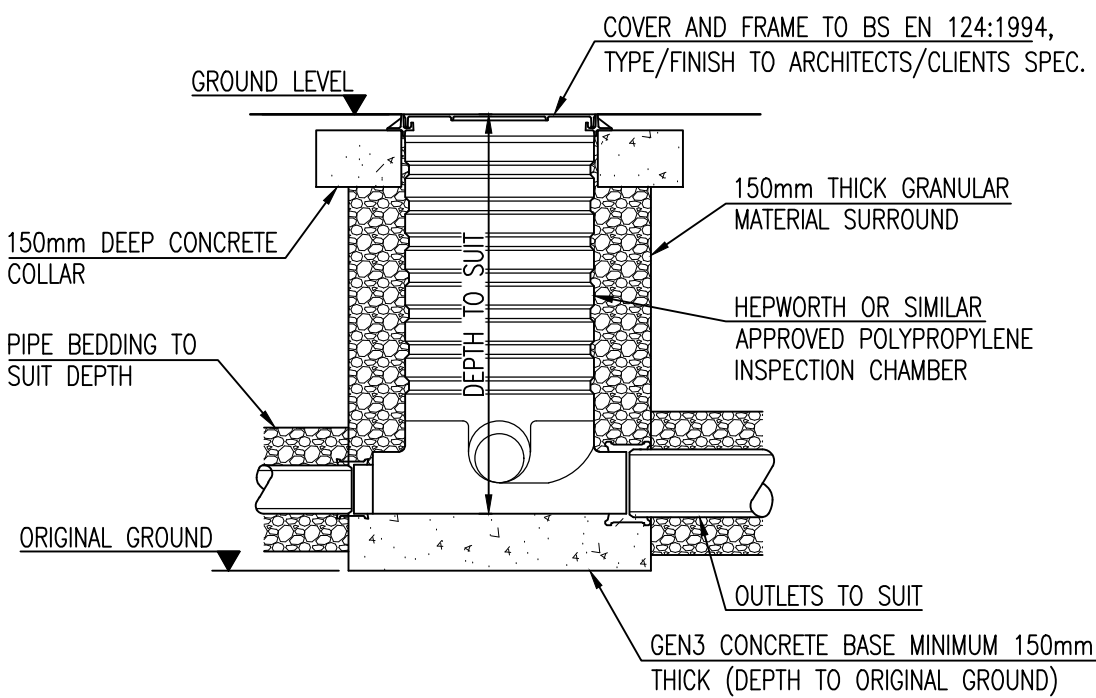
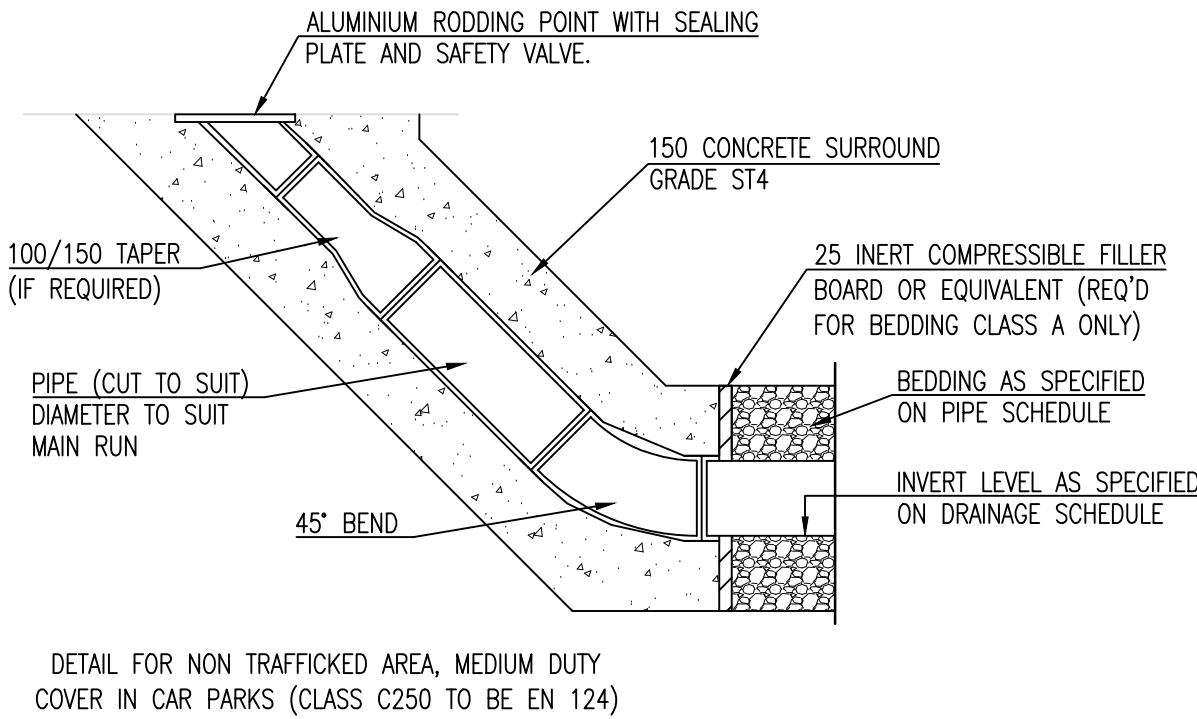




**TYPICAL POLYPROPYLENE INSPECTION CHAMBER
IN AREAS SUBJECT TO VEHICLE LOADING**
SCALE 1:20



**TYPICAL POLYPROPYLENE INSPECTION CHAMBER
IN PEDESTRIAN AREAS**
SCALE 1:20

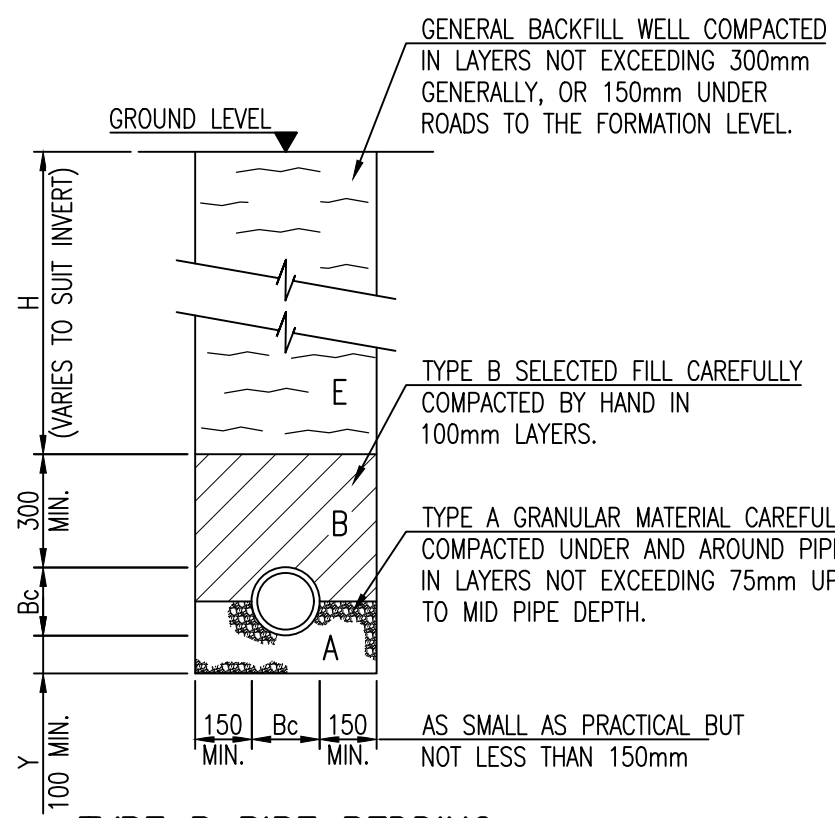


LIGHT DUTY RODDING EYE DETAIL
SCALE 1:20

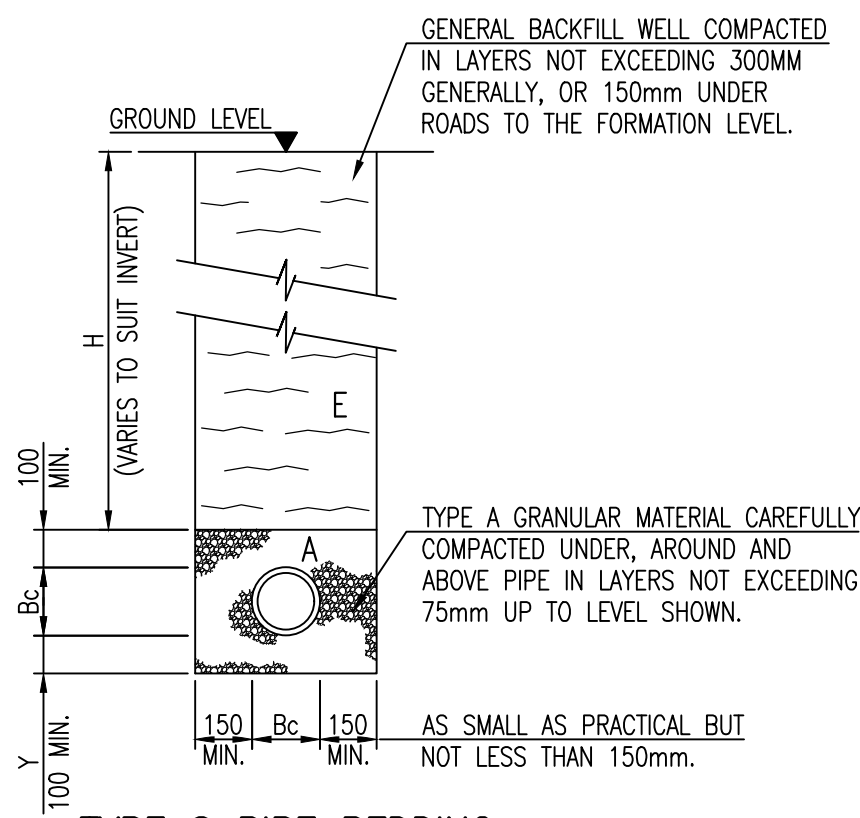
TABLE SHOWING PRIVATE MANHOLE/INSPECTION CHAMBER COVER GRADES AND AREAS OF USE	
COVER GRADE TO BS EN: 124	LOCATION
D400	FOR USE IN INDUSTRIAL ROADS AND PARKING AREAS ACCESSIBLE TO ALL TYPES OF ROAD VEHICLES INCLUDING HGV'S.
C250*	FOR USE IN PRIVATE ROADS OR PARKING AREAS eg. CAR PARKS AND MINOR PRIVATE ROADS ACCESSIBLE TO REFUSE VEHICLES, FIRE APPLIANCES ETC WITH POSSIBLE OCCASIONAL HGV USE.
B125	FOR USE IN FOOTWAYS, PEDESTRIAN AREAS, DRIVEWAYS AND CAR PARKS ACCESSIBLE BY LIGHT VEHICLES ONLY.
A15	FOR USE IN AREAS WHICH CAN ONLY BE USED BY PEDESTRIANS AND PEDAL CYCLISTS
* D400 MAY BE USED IN LIEU OF C250 IF PREFERRED.	

GENERAL DRAINAGE NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DETAILS.
- ALL MATERIAL & WORKMANSHIP TO BE IN ACCORDANCE WITH 'SEWERAGE SECTOR GUIDANCE APPENDIX C: DESIGN AND CONSTRUCTION GUIDANCE'.
- ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BRITISH STANDARDS, B.S. CODES OF PRACTICE & BUILDING REGULATIONS.
- REFER TO SSG DCG SPECIFICATION FOR CONCRETE GRADES & SAND/CEMENT MORTAR GRADES. ALL PRECAST & IN-SITU CONCRETE TO CONTAIN A MINIMUM CLASS 3 SUPHATE RESISTING CEMENT.
- PRE-FORMED CHANNELS ARE TO BE USED AT MANHOLES.
- GRANULITHIC CONCRETE BENCHING TO BE STEEL TROWELLED TO A DENSE SMOOTH FACE NEATLY SHAPED & FINISHED TO ALL BRANCH CONNECTIONS & LAID IN ACCORDANCE WITH THE SPECIFICATION.
- ALL DIMENSIONS ARE IN MILLIMETRES U.N.O.
- PIPE BENDS TO SUIT DIRECTION OF FLOW.
- MANHOLE COVERS AND FRAMES TO BE TO EN 124. USE GRADE D400 COVERS IN VEHICULAR MOVEMENT AREAS AND GRADE A15 COVERS IN NON-VEHICULAR AREAS.
- ALL TRENCHES UNDER CARRIAGEWAY TO BE BACKFILLED WITH TYPE 1 SUB-BASE, WELL COMPACTED IN LAYERS NOT EXCEEDING 150mm LOOSE DEPTH.



TYPE B PIPE BEDDING
(GRANULAR BED & SURROUND)
SCALE 1:20



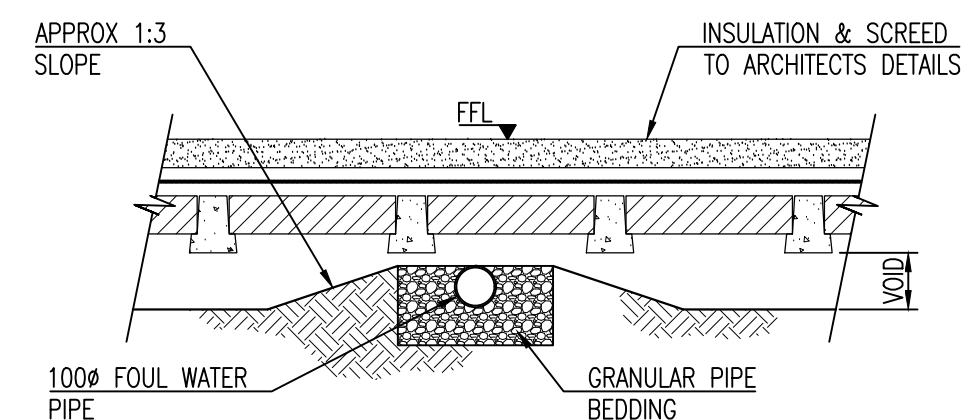
TYPE S PIPE BEDDING
(GRANULAR BED & SURROUND)
SCALE 1:20

PERMITTED PIPE/BEDDING TYPES		
PIPE BEDDING	DEPTH OF COVER WITHIN LIGHTLY TRAFFICKED AREAS	
	1.2m-3.5m	0.9m-3.5m
PIPE TYPE	VITRIFIED CLAY TO BS:65, WITH FLEXIBLE JOINTS SUPER STRENGTH CLASS FOR 225 AND 300mmØ. EXTRA STRENGTH CLASS FOR ALL OTHER SIZES.	THERMOPLASTIC: UPVC TO BS EN 1404+ PP TO BS EN 1852+ STRUCTURE WALL PLASTIC PIPE TO BS EN 13476 ALL WITH NOMINAL RING STIFFNESS SN4
COVER DEPTH	<1.2m	<0.9m
PIPE BEDDING	TYPE Z	TYPE Z
PIPE TYPE	VITRIFIED CLAY TO BS:65, WITH FLEXIBLE JOINTS SUPER STRENGTH CLASS FOR 225 AND 300mmØ. EXTRA STRENGTH CLASS FOR ALL OTHER SIZES.	THERMOPLASTIC: UPVC TO BS EN 1404+ PP TO BS EN 1852+ STRUCTURE WALL PLASTIC PIPE TO BS EN 13476 ALL WITH NOMINAL RING STIFFNESS SN4

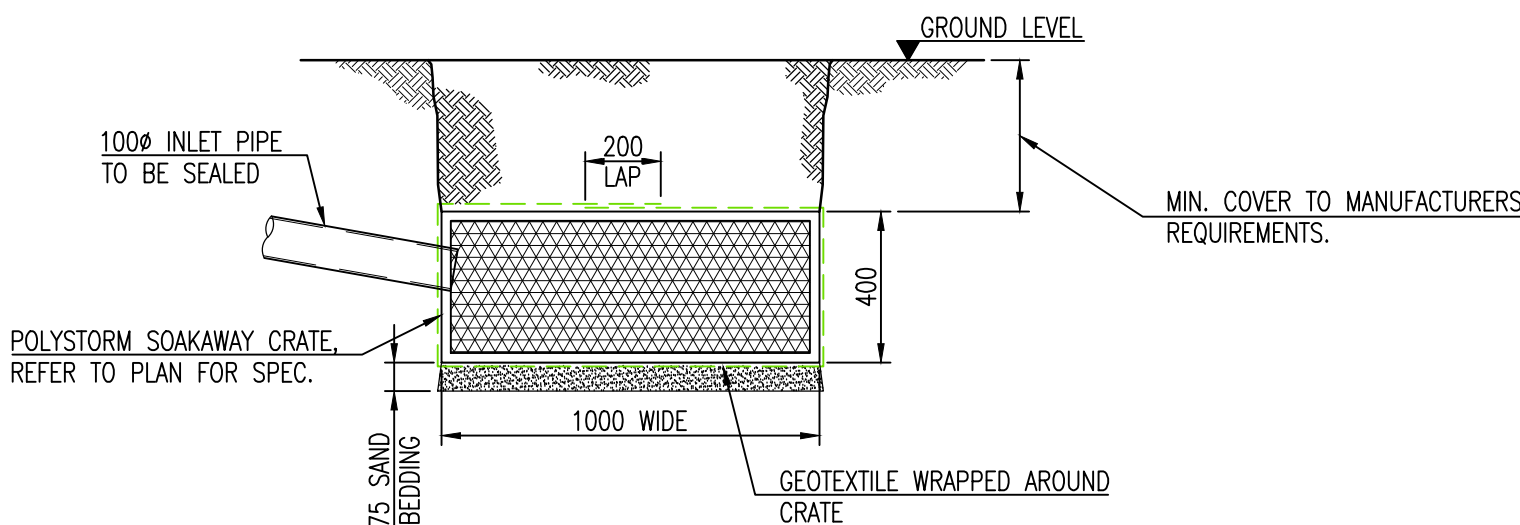
Table A
Granular bedding and sidefill material for vitrified clay pipes

PIPE SIZE DN (mm)	MAX. PARTICLE SIZE (mm)	NOMINAL SINGLE SIZE (mm)	GRADED SIZE (mm)	MAXIMUM CFE VALUE FOR AS-DUG
110	10	10	NOT PERMITTED	0.15
OVER 110 to 160	15	10 or 14	14 to 5	0.15
OVER 160 to 300	20	10,14 or 20	14 or 20 to 5	0.15
OVER 300 to 600	20	14 or 20	14 or 20 to 5	0.15

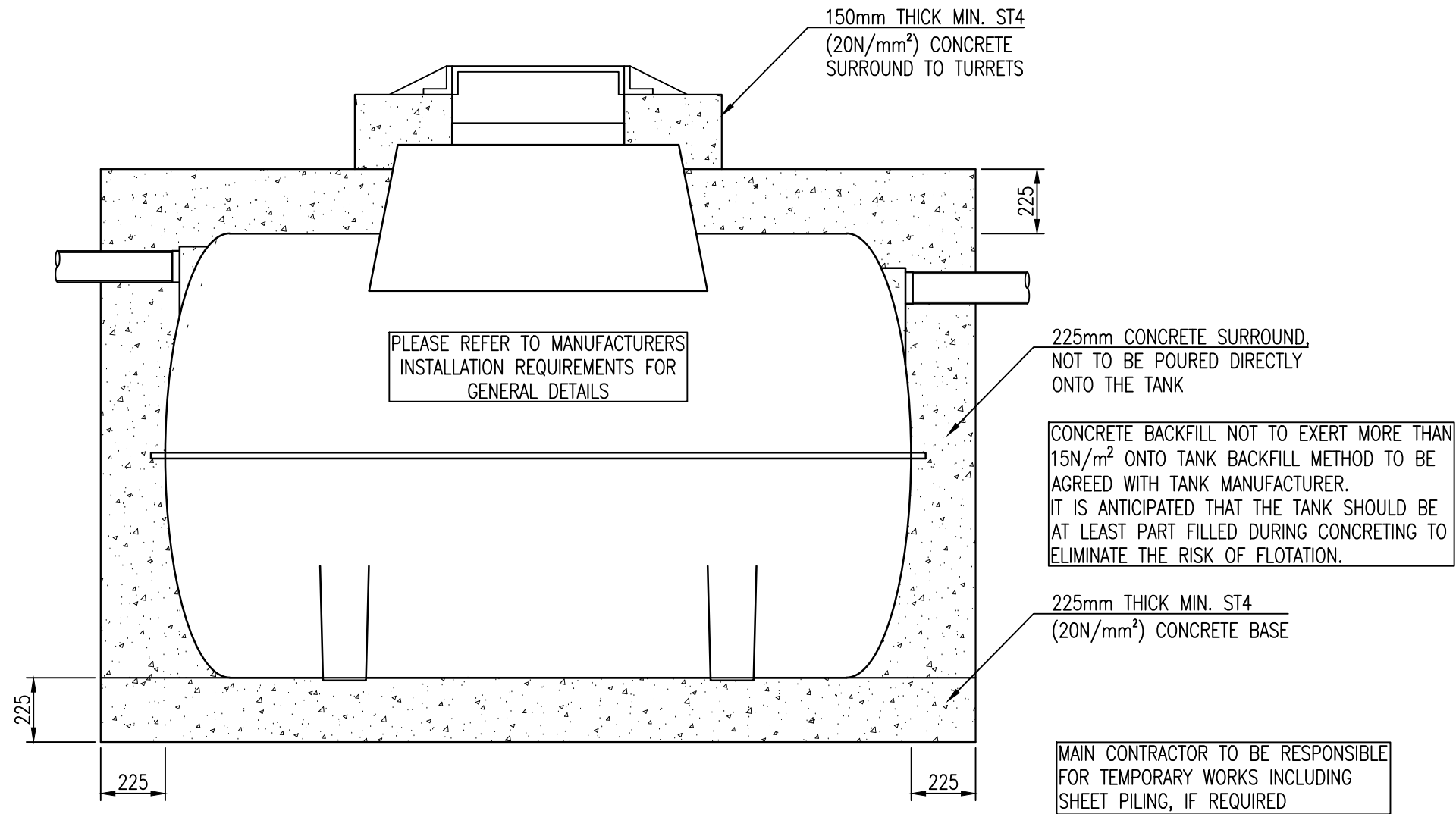
FOR THERMOPLASTIC PIPES (NOMINAL RING STIFFNESS SN4) WHERE COVER TO PIPE IS LESS THAN 0.6m IN SOFT LANDSCAPED AREAS, THEN CONCRETE PIPE PROTECTION IS TO BE USED AS AGREED WITH THE BUILDING INSPECTOR



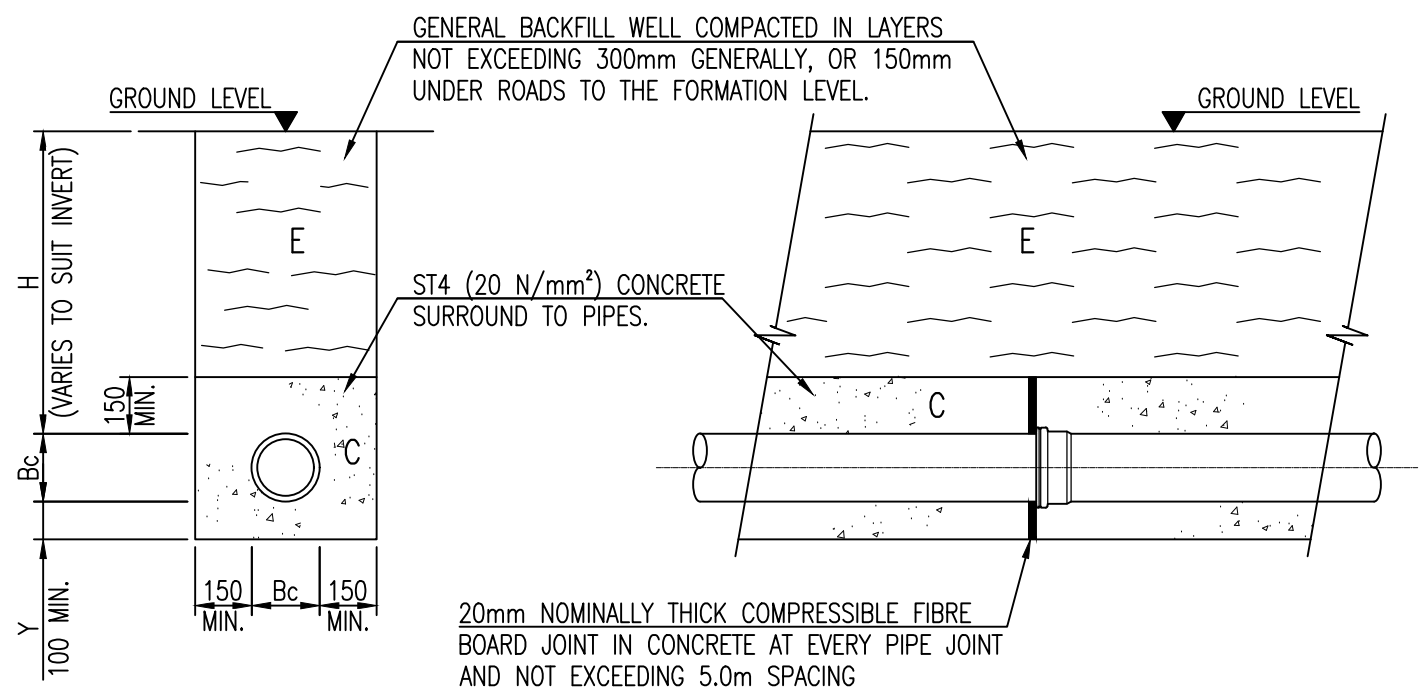
**SUB-FLOOR PIPE BEDDING DETAIL
WITHIN B&B VOID ZONE**
SCALE 1:20



TYPICAL SOAKAWAY CRATE DETAIL
SCALE 1:20



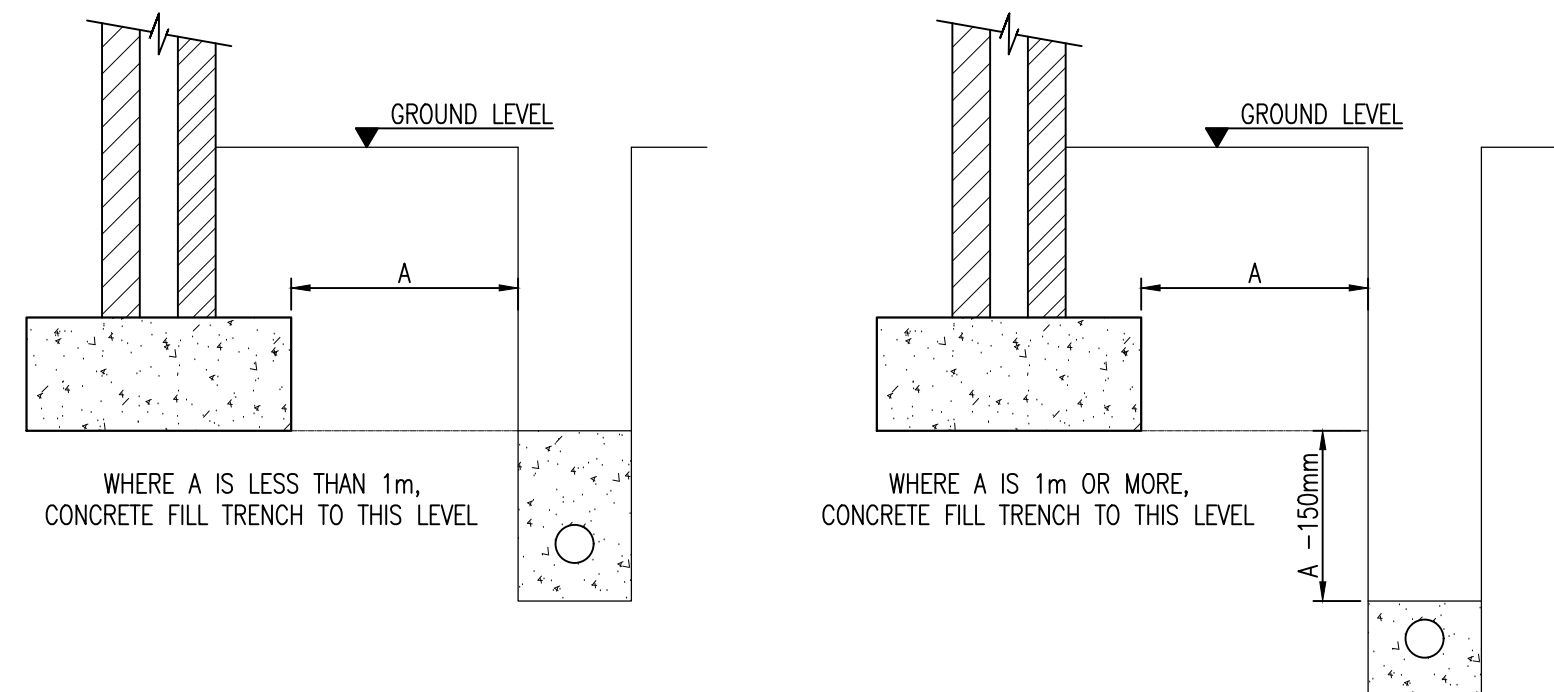
TYPICAL TREATMENT PLANT INSTALLATION DETAIL
SCALE 1:20



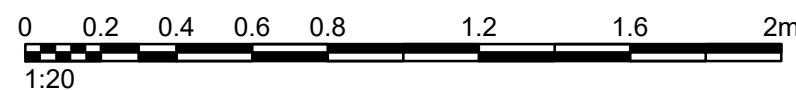
**SECTION THROUGH
PIPE TRENCH**

TYPE Z PIPE BEDDING
(CONCRETE SURROUND)
SCALE 1:20

**SECTION ALONG
PIPE TRENCH**



PIPE RUNS NEAR BUILDINGS
SCALE 1:20



- PRELIMINARY -- FOR APPROVAL			MP	APW	13.09.22
REV.	DESCRIPTION			DRN.	APP. DATE
SHIELDS WILSON e: info@shieldswilson.co.uk t: 01775 729252 STRUCTURAL AND CIVIL ENGINEERING					
STATUS FOR INFORMATION					
CLIENT Mr W. RAVELL					
PROJECT PROPOSED NEW DWELLING, EAUGATE ROAD, MOULTON EAUGATE, SPALDING LINGS, PE12 0XJ					
TITLE PROPOSED DRAINAGE CONSTRUCTION DETAILS					
DATE	SEPT. '22	SCALE	DRAWING NO.		REV.
DRAWN	MRB	0A1 1:20	SW 22-217-11		-