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CONNECTIONS TO
EXISTING SEWERS SUBJECT
TO 106 APPROVAL

PRELIMINARY
SUBJECT TO SECTION 38
AND SECTION 104 APPROVAL

ALL EXISTING INVERT LEVELS
TBC ON SITE AND RESULTS PASSED
BACK TO TRAVIS BAKER BEFORE
THE COMMENCEMENT OF ANY WORKS

ALL ADOPTABLE DRAINAGE MUST
COMPLY WITH DESIGN &
CONSTRUCTION GUIDANCE & SEVERN
TRENT WATER REQUIREMENTS

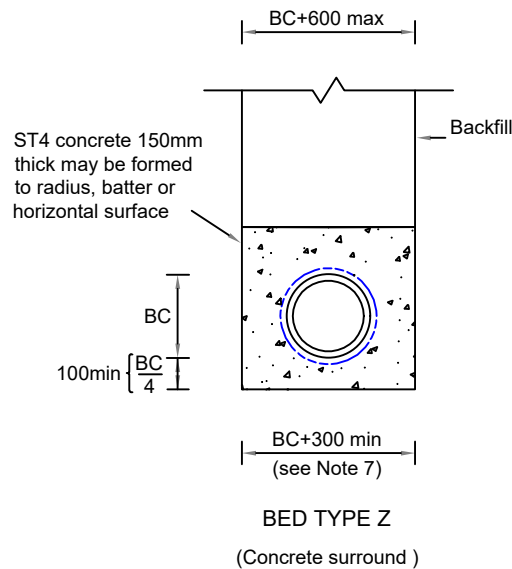
THIS DRAWING IS PRELIMINARY ONLY
AND SHOULD NOT BE USED FOR
CONSTRUCTION UNTIL INSTRUCTED BY
CLIENT TO CHANGE DRAWING STATUS
TO 'FOR CONSTRUCTION' AS WELL AS
S38 AND S104 TECHNICAL APPROVAL
BEING GRANTED

Typical Manhole Detail - Type C - NOT TO SCALE

Depth from cover level to soffit of pipe less than 1.5m

Maximum pipe size 450 mm diameter

Rigid material construction



Minimum 20 mm high-strength concrete topping complying with clause E4.3 and E6.5 neatly shaped and finished to all branch connections

225 mm to barrel of pipe

In-situ GEN3 concrete complying with E4.1 and BRE Special Digest 1

1220 mm x 685 mm multiple ductile iron cover Cover complying with Clause E2.32

Mortar bedding and haunching to cover and frame to clause E6.7

Brickwork or concrete blocks to be corbelled (maximum 30 mm per course) to suit cover

Precast concrete chamber sections complying with Clause E2.29 jointed with mortar, elastomeric or plastomeric seals. Chamber wall to be minimum 125mm

Benching slope to be 1:10 to 1:30

150 mm minimum

Inverts to be formed using channel pieces

1350 mm minimum

GENERAL NOTES

- These notes are to be read in conjunction with Drg No. **SD/500/4**
- All dimensions are in millimetres unless otherwise stated.
- BC = Outside diameter DC = Inside Diameter
- Type B and A beds are to be used with rigid pipes.
- Type E and Q beds are to be used with flexible pipes.
- The minimum trench widths apply on and below a line 300mm above the top of pipe. The maximum trench widths apply throughout the entire depth of trench. Widening of the trench or benching of the trench sides will only be permitted with the written approval from the Engineer.
- The concrete bed or surround may extend to the sides of the trench or be of minimum width. Selected backfill is to be used to fill any voids so formed.
- The bedding and surround up to the level 300mm above the top of the barrel shall be placed equally on both sides of the pipe in layers not exceeding 150mm thick and carefully compacted for the full width of the trench with hand tools.
- The backfill material shall be deposited in layers not exceeding 150mm thick and compacted as specified in Clause 612 using, unless other compacting equipment is required or agreed, power rammers or vibrating plate compactors.
- Trench sheeting should be removed as the bed surround and backfill are placed to ensure the trench is filled and compacted to the full width.
- Dimension
 - In rock or mixed soils containing rock bands, boulders, large flints or stones or other irregular hard spots that result in an uneven trench bottom $Y = \frac{BC}{4}$ with 200mm minimum under barrels and sockets.
 - In soils that permit an even trench bottom $Y = \frac{BC}{6}$ with 100mm minimum under barrels and 50mm minimum under sockets.
- Selected fill shall be acceptable material Class 8 as described in Table 6/1, 'Specification for Highway Works' and in compliance with the Series 600. The soluble sulphur content of the fill material shall not exceed the values given in Clause 601 of the Specification.
- Under carriageway pavements the selected fill and backfill up to formation level shall consist of Type 1 sub-base material.
- All drains and sewers shall have watertight flexible joints.

15. Pipe bedding material shall be a granular material having a grading within the limits of Table 2 below.

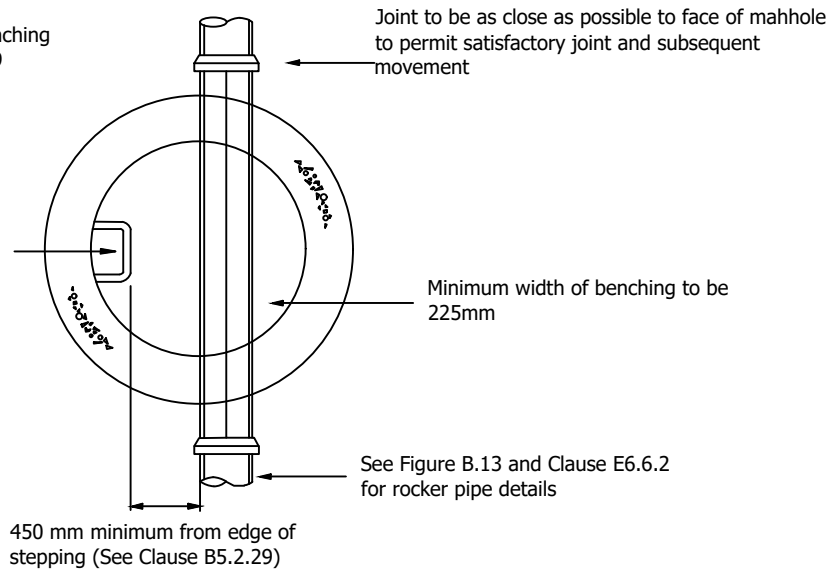
BS SIEVE SIZE	% PASSING/PIPE SIZES (mm)			
	> 1350 dia	> 600 dia	> 300 dia	> 150 dia
63mm	100	-	-	-
37.5mm	85-100	100	-	-
20mm	0-25	85-100	100	-
14mm	-	-	85-100	100
10mm	0-5	0-25	0-50	85-100
5mm	-	0-5	0-10	0-25
2.36mm	-	-	-	0-5

16. Compressible filler shall consist of bitumen impregnated insulating board to BS 1142 or similar. The thickness shall be as Table 3 below.

PIPE DIAMETER (D)	THICKNESS OF FILLER
< 450	18
450-1200	36
> 1200	54

Internal dimensions of manhole normally 1350mm but manhole diameter should be increased for pipes larger than 450mm diameter give 225 mm benching in accordance with B5.2.29

Double step rungs complying with Clause E2.33



Note: The use of precast concrete chamber units to E2.29 with 150mm GEN3 in-situ concrete complying with E4.1 and BRE Special Digest 1 in place of brickwork construction is permitted.

A	BEDDING AMENDED TO TYPE Z	28.05.25	WB	AG
REV	DESCRIPTION	DATE	BY	AUTH

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CLIENT
OWL HOMES LTD

PROJECT
**WYKIN LANE,
STOKE GOLDING**

TITLE
**HIGHWAY DRAINAGE
CONSTRUCTION DETAILS**

DRAWN RP	AUTHORISED JC	SCALE NOT TO SCALE@A3	DATE 24.01.25
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PROJECT NO. 24271	DRAWING NO. 307	REV A
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STATUS:
PRELIMINARY/FOR APPROVAL