

haunch strength

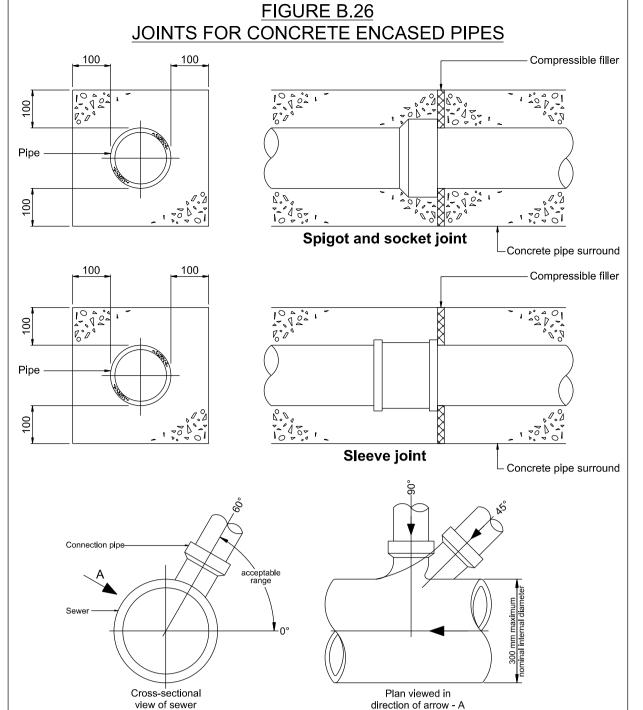
C20/25 (to BS

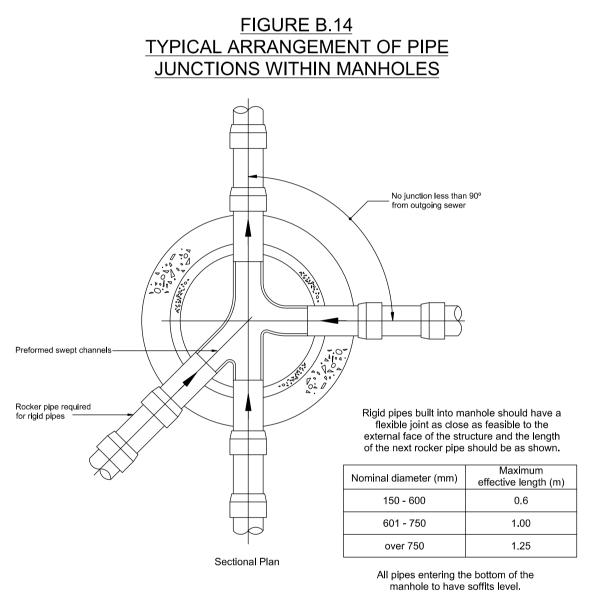
EN-206:2013)

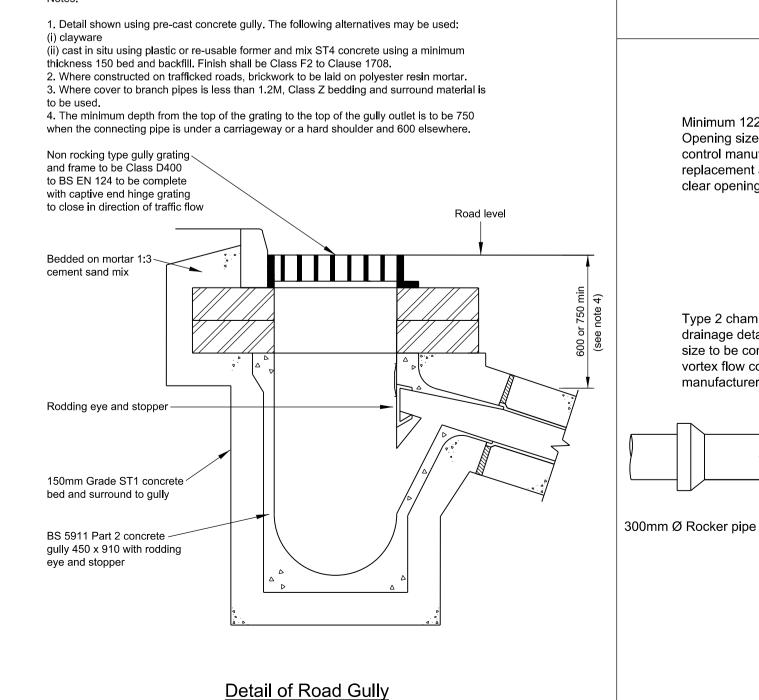
Kerb Drain Outlet Detail

minimum

274580-ARP-XX-XX-DR-CX-1154







	Width Bc		Υ		L	Z
Pipe Dia.	Max.	Min.	Y1 (Unifrom soil)	Y2 (Rock) *		Min.
100	550	450	100	200	25	100
150	600	490	100	200	25	100
225	700	580	150	200	25	100
300	750	680	150	200	25	100
375	1050	950	150	200	25	100
450	1150	1030	150	200	25	150
525	1200	1120	150	200	30	150
600	1350	1240	150	200	30	150
675	1450	1330	150	200	30	225
750	1500	1400	150	200	30	225
825	1600	1490	150	225	30	225
900	2100	1900	150	225	30	225
975	2150	1950	175	250	30	300
1050	2250	2050	175	275	30	300
1200	2500	2250	200	300	30	300
OVER 1200	Outside Dia. + 1000	Outside Dia. + 800	DIA/6	DIA/4	54	400

Table B - Trench widths and other dimesions * See Note 2

Pipe Bedding Details

		Aggregate Size		
	Pipe Dia. (mm)	Graded (mm)	or single sized (mm)	
	100	-	10	
	150	14 - 5	10 Or 14	
	225-300	14 - 5 Or 20 - 5	10, 14 Or 20	
	375-525	14 - 5 Or 20 - 5	10, 14 Or 20	
	EXCEEDING 525	14 - 5 Or 20 - 5 Or 40 - 5	10, 14, 20 Or 40	

Table A - Granular pipe bedding material Type 'A'

Dimension (mm) Letter Pipe Sizes 100 - 450 25 525 - 900 100 - 150 100 Y1 225 - 900 150

Table of Dimensions

100 - 750 200 825 - 900 225 100 100 - 375 150 450 - 600 675 - 900 225

* Y1 - Unifrom Soil * Y2 - Rock

Minimum 1220mm x 675mm clear opening.

replacement and or maintenence. Larger

control manufacturer to allow future

clear opening may be required.

Type 2 chamber, as per

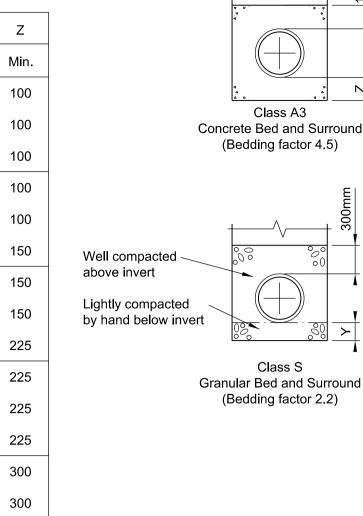
drainage detail. Chamber

size to be confirmed with

vortex flow control

manufacturer

Opening size to be confirmed with vortex flow



300mm Ø Rocker pipe

Joint to be as close as possible to face \

of manhole to permit satisfactory joint

Joint to be as close as

possible to face of

manhole to permit

¹300mm Ø Rocker pipe

satisfactory joint and

subsequent movement

and subsequent movement

Concrete Bed and Surround (Bedding factor 4.5)

Notes

1. Do not scale from this drawing

subsequent design stages.

statutory undertaker.

subject to change.

requirements.

2. All dimensions are in metres unless noted otherwise. 3. The details shown on this drawing are based on a RIBA Stage 4 design for approval produced for a detailed planning

application. The highway design shown is for adoption by

Newport City Council and subject to design approval. The

details will need to be reviewed and revised during

4. Figures taken from Sewers for Adoption 7th Edition.

5. Drainage design and construction is in accordance with

6. All proprietary products to be installed to manufacturers

7. Proposals shown subject to SAB Approval therefore

8. All covers to be class D400 in accordance with EN 124.

Covers within the highway to have high friction surfacing.

Sewers for Adoption 7th Edition and the requirements of the

Notes:

1. All excavation in excess of Bc shall be backfilled with concrete Mix ST2.

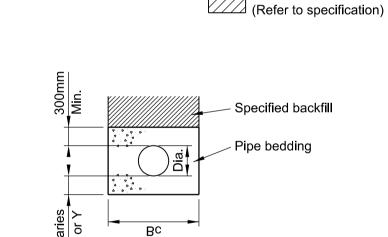
2. Dimension Y2 shall be increased at a rate of 40mm per additional 1000mm cover to pipe in excess of 5000mm.

Legend

Concrete mix ST4

েও Granular pipe bedding ്രാവി material Type 'A'

Selected excavated material



D400 double cover to BS EN124. Minimum 1220mm x

replacement and or maintenence. Larger clear opening

Pull handle and eye bracket for operating

Pivoting bypass door

operating steel rope

Vortex flow control

Design head = 1.5m;

Design flow = 40.0 l/s

or equivalent.

Hydro-Brake Optimum

with pivoting bypass door

Flow Control Chamber S5

MD-SHE-0262-4000-1500-4000

300mm Ø

Rocker pipe

675mm clear opening. Opening size to be confirmed

with vortex flow control manufacturer to allow future

may be required.

OUTLET

Vortex flow control sump,

by manufacturer

dimensions to be confirmed

IL=5.40m

P02 ISSUED FOR TENDER | CB | CL | DL | 11/05/21 | 5 P01 ISSUED FOR PLANNING | CB | SW | SW | 24 / 02 / 21 | Drawn Chkd. Appd. Issue Date Rev. Description Cyfoeth Naturiol Cymru **ARUP** Natural Resources

STEPHENSON STREET FLOOD DEFENCE SCHEME

EAST BANK ROAD PROPOSED DRAINAGE DETAILS SHEET 1 OF 2

- Exact positions of

rings and access

to be confirmed

by manufacturer

1800mm precast concrete chamber. Size to be

confirmed by vortex flow

control manufacturer

Suitability Code. D2 - FOR TENDER Internal Project Number. P02 274580 N.T.S Drawing Number.

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