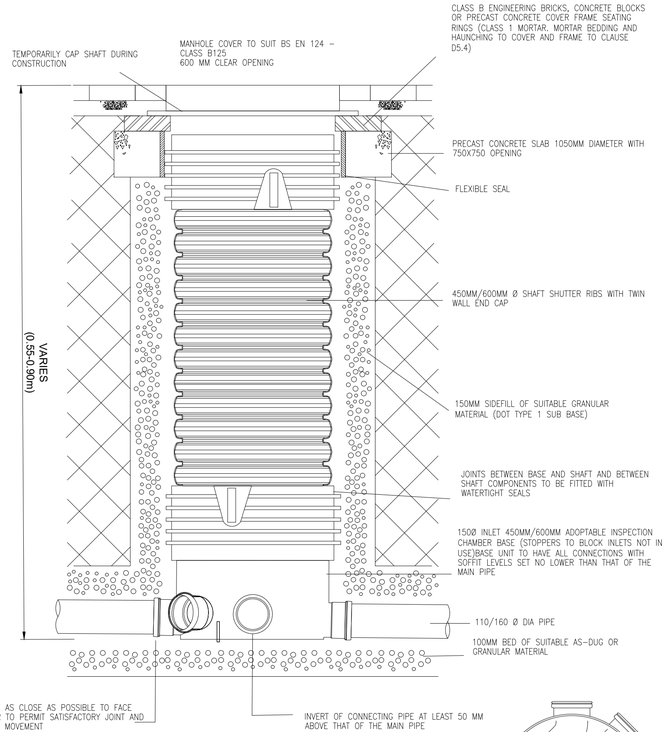
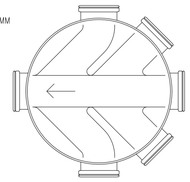


PPIC INSPECTION CHAMBER

BY WAVIN OR SIMILAR APPROVED
(NTS)

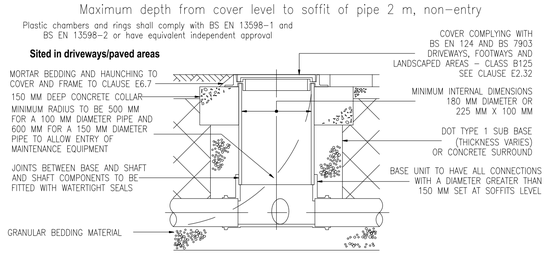
150Ø PIPE, 450MM/600MM ø ADOPTABLE INSPECTION CHAMBER BASE (STOPPERS TO BLOCK INLETS NOT IN USE)BASE UNIT TO HAVE ALL CONNECTIONS WITH SOFFIT LEVELS SET NO LOWER THAN THAT OF THE MAIN PIPE

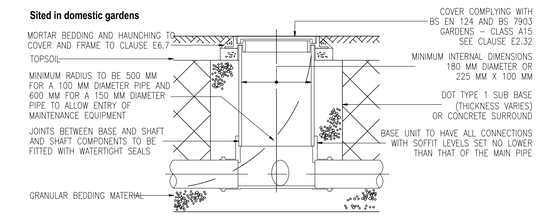


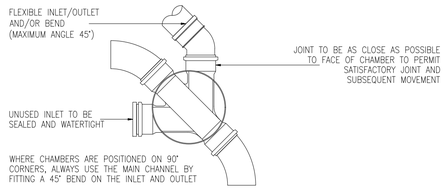
TYPICAL INSPECTION CHAMBER DETAIL – TYPE E (Flexible material detail)

Maximum depth from cover level to soffit of pipe 2 m, non–entry

Plastic chambers and rings shall comply with BS EN 13598–1 and BS EN 13598–2 or have equivalent independent approval







NOTE: WHERE THE ACCESS CHAMBER IS IN THE HIGHWAY THE HIGHWAY AUTHORITY CAN HAVE SPECIFIC REQUIREMENTS

Minimum Dimensions for Access Fittings and Chambers

Type	Internal Sizes				Cover Sizes	
	Depth to soffit (m)	Size of largest pipe (DN)	Length x Width (mm)	Circular (mm)	Length x Width (mm)	Circular (mm)
Rodding Eye	As Drain but Minimum 100mm					
Shallow Access						
Small	0.6 or less	150	150x100	150	150x100	150
Large			225x100	225	225x100	
Inspection Chamber	0.6 or less			190		190
	1.2 or less	150	450x450	450	450x450	450
	1.2 - 3.0		450x450	450	300x300	350
Manhole	1.5 or less	150	675x750	1200	675x750	n/a
		225	675x1200	1200	1200x675	n/a
		300	675x1200	1200	1200x675	n/a
		>300	DN+450 x1800	The larger of 1800 or (DN+450)	1200x675	n/a
	Over 1.5	225	1200x1000	1200	600x600	600
		300	1200x1075	1200	600x600	600
		375-450	1350x1225	1200	600x600	600
		>450	DN+775 x1800	The larger of 1800 or (DN+775)	1200x675	600
Manhole Shaft	Over 3.0					
- Steps			1050x800	1050	600x600	600
- Ladder			1200x800	1200	600x600	600
- Winch			900x800	900	600x600	600

BUILDING REGULATIONS MINIMUM DIMENSIONS FOR MANHOLES

(Not to Scale)

This plan complies with the Building Regulations 2010 Section 'H' - Drainage & Waste Disposal.

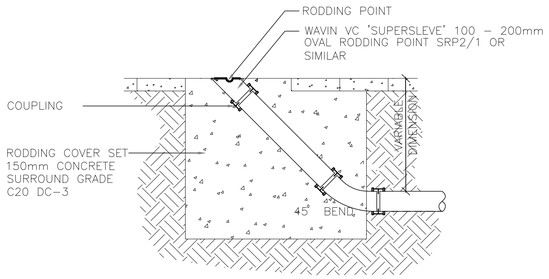
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NOTES

1. DO NOT SCALE FROM THIS DRAWING. USE ONLY WRITTEN DIMENSIONS
2. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY (CESWI) UNLESS STATED OTHERWISE
3. THE LENGTH OF THE NEXT PIPE (ROCKER PIPE) AWAY FROM THE STRUCTURE SHALL BE:

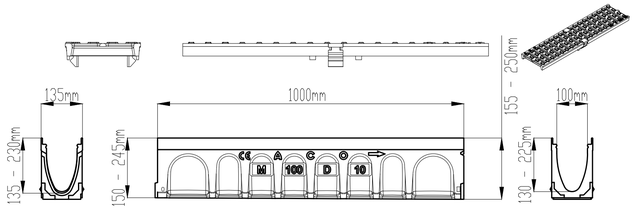
PIPE DIAMETER (mm)	LENGTH (m)
DN150 - DN600	0.6

4. ALL DIMENSIONS ARE IN MILLIMETRES
5. PROPOSED MANHOLES ARE TO BE TO SEWERS FOR ADOPTION 7th EDITION AND THE DESIGN & CONSTRUCTION GUIDANCE.
6. DETAILS SHOWN FOR TYPE E PPIC CHAMBERS ARE TAKEN FROM WAVIN DETAILS. THESE CHAMBERS SHALL BE INSTALLED TO THE MANUFACTURERS SPECIFICATION. IF ALTERNATIVE CHAMBERS ARE PROPOSED THE DETAILS MAY VARY AND SHOULD BE SUBMITTED TO TO THE DESIGNER. ALL PART NUMBERS SHOWN RELATE TO WAVIN PRODUCTS.
7. ALL WORKS TO COMPLY WITH "SEWERS FOR ADOPTION-7th EDITION" AND THE DESIGN & CONSTRUCTION GUIDANCE.
8. A 30mm REDUCTION IN LEVEL HAS BEEN ALLOWED FOR IN THE CALCULATION OF INVERT LEVELS FOR ALL BRANCH CONNECTIONS TO PLASTIC INSPECTION CHAMBERS (AS PER WAVIN DETAILS). INVERT LEVELS REFER TO MAIN CHANNEL.IF ALTERNATIVE CHAMBERS ARE PROPOSED THIS VALUE MAY VARY AND THE DESIGNER SHOULD BE CONSULTED.
9. PIPEWORK TO BE VITRIFIED CLAY OR PLASTIC. VITRIFIED CLAY PIPES SHOULD COMPLY WITH REQUIREMENTS BS EN 295 FOR FOUL PIPES.
10. PLASTIC PIPEWORK IS TO BE INSTALLED (POLYPIPE OR SIMILAR APPROVED) IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION.
11. PLASTIC PIPEWORK IS TO BE INSTALLED (POLYPIPE OR SIMILAR APPROVED) IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION. ALL THERMOPLASTIC PIPEWORK SHALL COMPLY WITH THE REQUIREMENTS OF THE DESIGN & CONSTRUCTION GUIDANCE.
12. THE DEVELOPER MUST SELF-VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATIONS FOR THE PROPOSED DRAINAGE ARE IN ACCORDANCE WITH THOSE SET OUT IN THE DESIGN & CONSTRUCTION GUIDANCE, BUILDING REGULATIONS AND THE REQUIREMENT OF THE STATUTORY SEWERAGE UNDERTAKER.
13. PROPOSED PIPEWORK WITH LESS THAN THE FOLLOWING DEPTHS TO SOFFIT REQUIRES A CONCRETE SURROUND:
    - PROPOSED PIPEWORK WITH <1.2m DEPTH TO SOFFIT IN ROADS/SERVICE AREAS.
    - OR <0.9m DEPTH TO SOFFIT IN PEDESTRIAN AREAS & DOMESTIC DRIVEWAYS WITH 7.5T VEHICLE WEIGHT LIMIT.
    - OR <0.5m DEPTH TO SOFFIT IN PEDESTRIAN AREAS & DOMESTIC DRIVEWAYS WITH NO VEHICLE WEIGHT LIMIT.
    - OR <0.35m DEPTH TO SOFFIT IN LANDSCAPED AREAS REQUIRES CLASS Z BEDDING*



RODDING EYE IN CARRIAGEWAY/HARD LANDSCAPE

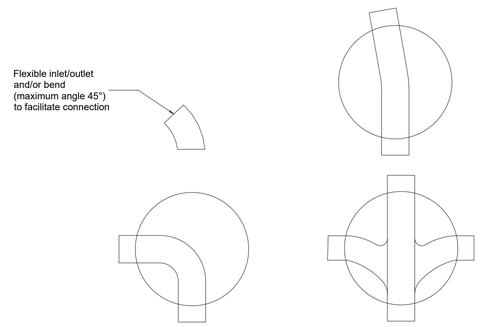
SCALE 1:20



ACO M100D SLOPING CHANNEL DRAIN WITH D400 DUCTILE IRON GRATING

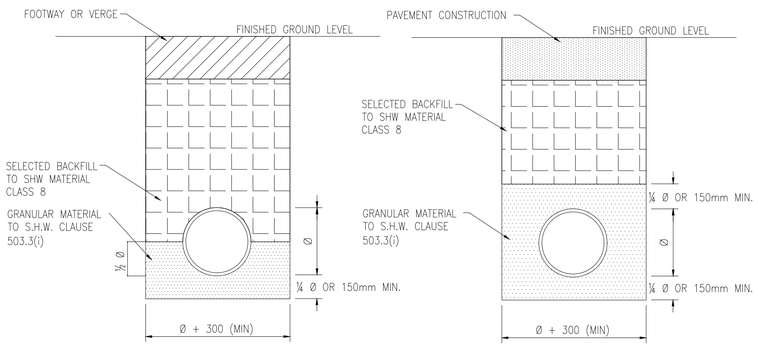
(NTS)

DCG - FIGURE B.20
ALTERNATIVE BASE LAYOUTS FOR TYPE 3 CHAMBERS



Note: Where a bend is used immediately outside the manhole, this may be used as the rocker pipe

Not to scale

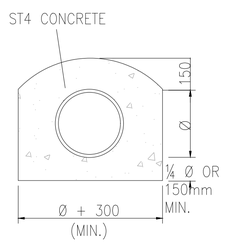


TYPICAL TYPE B BEDDING DETAIL

(TO BE USED WHEN COVER IS GREATER THAN 900mm UNDER NON–TRAFFICKED AREA)

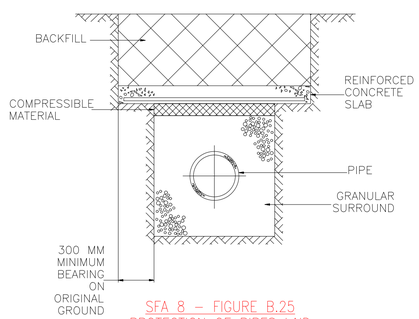
TYPICAL TYPE S BEDDING DETAIL

(TO BE USED WHEN COVER IS GREATER THAN 900mm UNDER TRAFFICKED AREA)



TYPICAL TYPE Z BEDDING DETAIL

(TO BE USED WHEN COVER IS LESS THAN 900mm TO PIPE SOFFIT UNDER–TRAFFICKED AREA)
(NTS)



SFA 8 – FIGURE B.25 PROTECTION OF PIPES LAID AT SHALLOW DEPTHS

REV	DATE	DESCRIPTION	DRN	CHD	APPD
R1	07/08/2026	FOR INFORMATION	TGD	CLS	AJF

DRG. STATUS

FOR INFORMATION

CLIENT

WREXHAM COUNTY BOROUGH COUNCIL

PROJECT

WREXHAM SCOUTS & GUIDES, PRICE'S LANE, WREXHAM LL11 2NB

DRG. TITLE

DRAINAGE STANDARD DETAILS SHEET 1

DRG.NO. 26142-AJF-ZZ-ZZ-DR-C-502

REV R1

A1