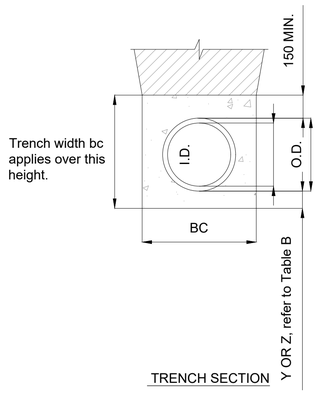
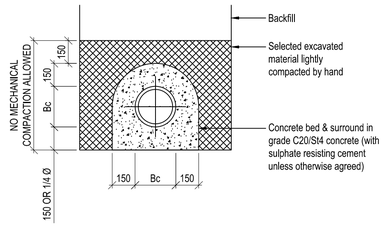


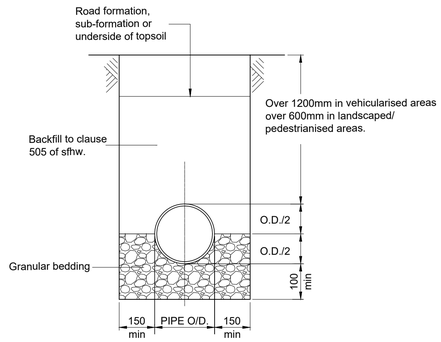
CLASS S PIPE BEDDING DETAIL
(FOR ALL PIPES WITH MORE THAN 1.2M COVER IN VEHICULAR AREAS OR MORE THAN 300MM COVER IN SOFT AREAS)



TRENCH SECTION



Class 'Z' Bedding



Class B Bedding
(Bedding factor 1.9)

Bedding beneath and at the sides of the pipe to be well compacted the first 300mm of fill above the crown of the pipe is to be lightly tamped by hand. Mechanical compaction may be used only above this level. Geotextiles may be used where directed or approved by the engineer to contain bedding material in certain soils e.g. running sand in very wet conditions, where directed or approved by the engineer a temporary land drain may be laid within the granular bed.

Note:

1) All manhole covers to be 675mm x 675mm.

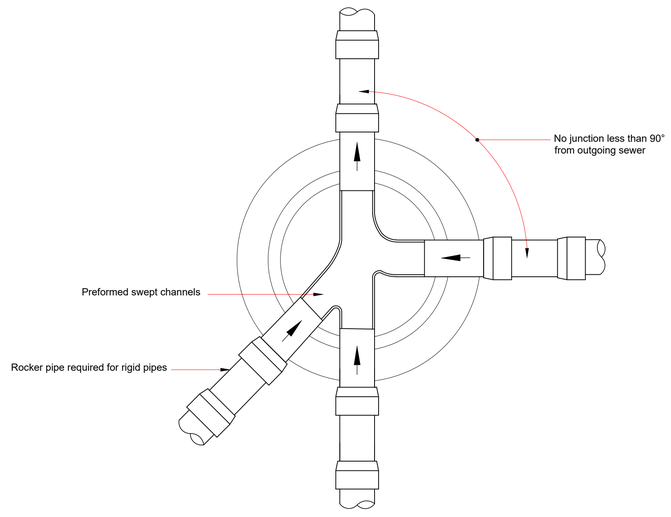
2) Precast concrete manhole rings will not be cut under any circumstances.

	Aggregate size.	
Pipe dia. (mm)	Graded (mm)	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 'S'

PIPE DIA.(MM)	WIDTH BC		Y		Z
	MAX.	MIN.	Y1 (UNIFORM SOIL)	Y2 (ROCK) *	MIN.
100	550	450	100	200	100
150	600	490	100	200	100
225	700	580	150	200	100
300	750	680	150	200	100
375	1050	950	150	200	100
450	1150	1030	150	200	150
525	1200	1120	150	200	150
600	1350	1240	150	200	150
675	1450	1330	150	200	225
750	1500	1400	150	200	225
825	1600	1490	150	225	225
900	2100	1900	150	225	225
975	2150	1950	175	250	300
1050	2250	2050	175	275	300
1200	2500	2250	200	300	300
OVER 1200	O.D. + 1000	O.D. + 800	I.D./6	I.D./4	400

TABLE B
TRENCH WIDTHS AND OTHER DIMENSIONS



Sectional Plan

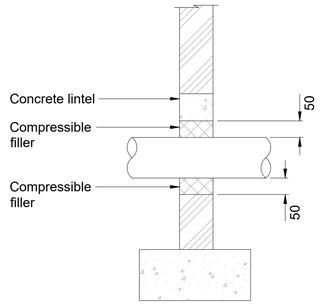
Rigid pipes built into manhole should have a flexible joint as close as feasible to the external face of the structure and the length of the next rocker pipe should be as shown.

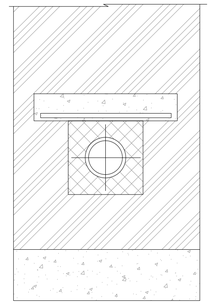
Nominal diameter (mm)	Maximum effective length (m)
150 - 600	0.6
601 - 750	1.00
over 750	1.25

All pipes entering the bottom of the manhole to have soffits level.

Arrangement of pipe junctions within manholes

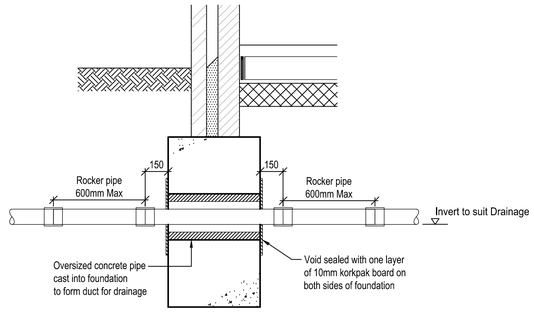
Granular Pipe Bedding Details for Rigid Pipes





Not to scale, dimensions in millimetres
(all dimensions are minimum sizes)

Protection of pipes penetrating Single Leaf Boundary alls
n.t.s



Detail For Drainage Though Foundation
Scale 1:20

Safety, Health & Environmental Information:

In addition to the hazards and risks normally associated with the types of work detailed on this drawing, please note the significant hazards identified by symbols below,

INDICATES A RESIDUAL RISK AS A WARNING

INDICATES A RESIDUAL RISK FOR INFORMATION

and described below:

Construction/Maintenance/Cleaning/Demolition

Refer to Drawing: MGPS-BML-XX-XX-DR-C-2700

General Notes:

1. Do not scale from this drawing.

2. All dimensions are in meters (m), all levels in metres (m) unless noted otherwise.

3. Discrepancies or omissions are to be reported to the Engineer prior to work commencing.

4. Materials and workmanship are to comply in all respects with current British Standard Specifications, Codes of Practice, and Building Regulations Approved Documents.

5. The copyright of this drawing is vested in the Engineer and must not be copied or reproduced without written consent.

6. The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work commences.

7. This drawing is to be read in conjunction with all relevant specifications and drawings issued by the Engineer, Architect and other Specialists.

8. Details and locations of existing services are based on the Topographical Survey and Utility Records received from Third Parties and Service Providers respectively, and should be considered indicative and approximate only. The existing services shown on Series 2700 drawings may not be exhaustive. The Contractor shall use Trial Pits and other approved methods to accurately locate and verify the positions and depths of all existing services before commencement of works on site.

NOTE:

1. For Drainage Plan Layout refer to drawing, TOS-BML-XX-XX-DR-C-0500.

2. For Drainage Details refer to drawings, TOS-BML-XX-XX-DR-C-0505 to 0508.

3. For Flood Flow Analysis refer to drawing, TOS-BML-XX-XX-DR-C-0520.

4. For External Surfaces refer to drawing, TOS-BML-XX-XX-DR-C-0700.

Rev	By / Chk'd	Date	Description
P01	IW/AM	04/03/2025	Preliminary issue for client comments

PRELIMINARY DRAWING
This drawing is not to be used for construction

Client

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BarnsleyMarshall

Project

The Oaks Site
Wrexham Industrial Estate

Drawing

Drainage Details 03

By IW/AM Date 18/02/2025

Drawing No. TOS-BML-XX-XX-DR-C-0507

Revision P01

BML Job No. 1000-06

Status -

Drawing Scale at A1: As Shown

CAD Filename: T:\Project\1000.06 The Oaks Site, Wrexham Ind Est\04-Innovation - Working\DWG\TOS-BML-XX-XX-DR-C-0505 - 0510.PR7 - Drainage Details 1 to 5.dwg