

Drains with Flexible Bed & Surround

Type 'S'
Applicable under roads/service yards where drains have more than 1200 cover.

Type 'S'
Applicable under footpaths verges and other non-trafficked areas where drains have more than 600 cover.

Drains with Concrete Bed and Surround

Type 'Z'
Applicable under roads/service yards where drains have less than 1200 cover.

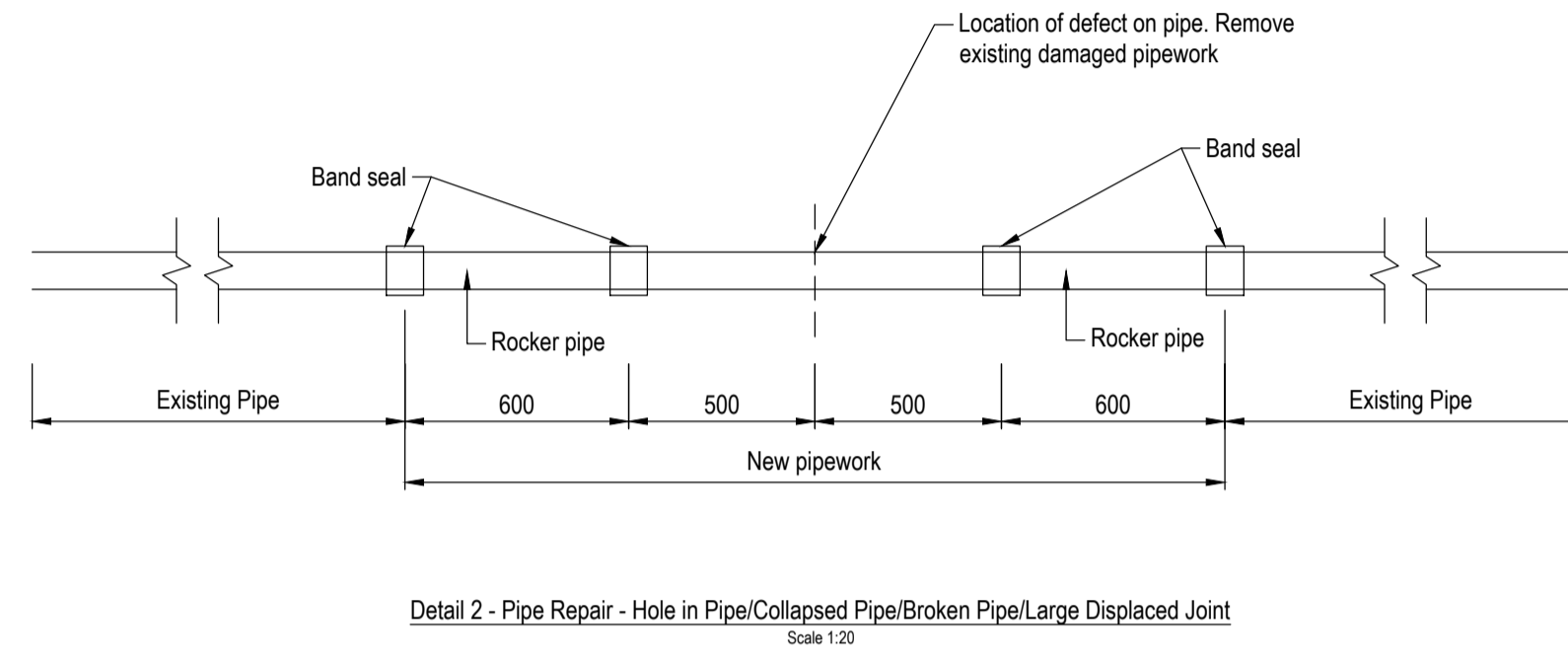
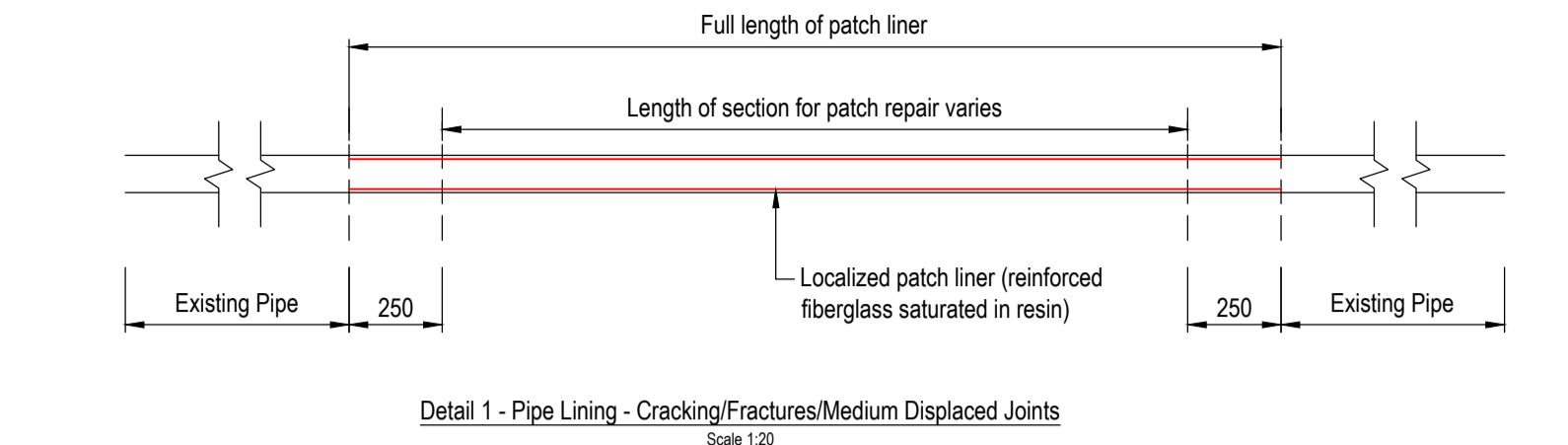
Type 'Z'
Applicable under footpaths verges and other non-trafficked areas where drains have less than 600 cover.

Bedding & Trench Details
Scale 1:10

Key		Granular Material	
BC	Outside diameter of pipe.	Dia. of Drain	Aggregate
Y	BC/6 OR 100mm under barrels and 50mm min. under sockets whichever is greater (400mm max.)	100mm	10mm single size
	or	150mm	10mm or 14mm single size or 5-20mm graded.
Y	BC/4 or 200mm under barrels and 150mm min. under sockets whichever is greater (400mm max.) For trenches in hard material.	225mm-525mm	10mm or 14mm single size or 5-20mm graded.
	Earthworks outline.	Over 525mm	10, 14, 20 or 40mm single size or 5-20mm graded.
	Granular material (see table)	Note A No mechanical compaction within 300mm of crown of pipe. Note B Where drains are laid under buildings refer to engineer for further details.	
	Selected clean excavated material to SHW Clause 505 & 601. Class 1, 2, OR 3.		
	Granular Type 1 material deposited in layers not exceeding 225mm unconsolidated thickness and then fully compacted.		
	Gen3 Concrete		

TRENCH WIDTHS

DIA OF DRAIN	WIDTH
100	550
150	600
225	700
300	750
375	1020
450	1150
525	1200
600	1350
675	1450
750	1500
825	1600
900	1900
975	2000
1050	2300
1200	2300
Over 1200	Dia+1000



Methodology:

1. Identify and verify location, CCTV and trace through.
2. Expose and replace pipework as per Detail 2.
3. Backfill and make good surface to match the existing surface.

Notes

1. This drawing is subject to copyright and must not be reproduced, stored or transmitted in any form without prior permission from Mason Clark Associates.
2. This drawing is not to be scaled. All dimensions are to be checked on site by the contractor. Any discrepancies are to be notified to Mason Clark Associates. Obtain instructions prior to works commencing.
3. This drawing is to be read in conjunction with all the relevant contract drawings and specifications.
4. All dimensions are in millimetres and all levels are in metres AOD unless noted otherwise.
5. All work shall be carried out in accordance with Local Authority, Statutory Authority and Health & Safety Regulations.
6. Mason Clark Associates are not responsible for determining the appropriate fire period, fire boundary conditions or the associated design of fire protection or inherent fire resistance to any elements of structure, including all frames, posts, beams, joists, roof members and secondary structural elements such as lintels. Refer to the Architect or Project Manager for this information.

Drainage Notes

1. Existing drainage locations including routes and manhole positions are based on AHR Building Consultancy Limited's Existing Topographical Survey Drawing '2024.00557.SLU01' and Existing Utility Mapping Drawing '2024.00557.LM01'. These drawings were accompanied by CCTV Report '2024.00557.CCTV01' dated 23/10/2024.
2. The drawing is also based on Willow Pump's 'Oakwell Hall Drainage Investigation Schematic Drawing' of Drawing number 001 dated 19/11/2025. The Investigations were accompanied by a CCTV report 'Oakwell Hall (v2)' dated 11/11/2025.
3. This drawing includes a full list of site drainage defects based on the CCTV survey reports in 1 and 2 above.
4. For a full site drainage remediation schedule, refer to drawing 22333-Y-DR-203. For the Critical drainage remediation schedule, refer to drawings 22333-Y-DR-204 and 22333-Y-DR-205.
5. This detail is to be read in conjunction with drawings 22333-Y-DR-201 and 22333-Y-DR-202.

Not for Construction
Refer to drawing issue box for purpose. Please contact Mason Clark Associates if construction is instructed.

P1	Preliminary Issue	MKN	21.01.2026
Rev	Details	By	Date
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masonclarkassociates civil and structural engineering consultants			
Client: Kirklees Council			
Project: Oakwell Hall			
Title: Drainage Defects Repair Details			
Drawn: MKN	Checked: CB	Date: Jan 2025	
Scale @ A1: As Shown			
Drawing No: 22333-Y-DR-206	Rev: P1		