

PROPOSED DRAINAGE DESIGN

PROPOSED CLUBHOUSE & COMMUNITY HUB THE LOOM LOFT STADIUM PENDLE ROAD CLITHEROE

15TH OCTOBER 2025

INTRODUCTION

The existing clubhouse building foul and surface water drainage discharges into an inspection chamber on the north-west corner of the building.

The private drain then runs to the site boundary and discharges into an unadopted sewer located on the back street of Shawbridge Street

This unadopted drain then connects to the UU adopted combined sewer at the northern end of the back street. (refer to UU sewer records in Appendix A).

Surface water drains from the sloping parking area on the west side of the building to the site boundary. There is a road gully located at the north-west corner of the site boundary.

DESIGN STATEMENT

Calculations are provided for the existing and proposed foul water installations.

Rainwater calculations are provided for the roof run off for the proposed building.

Rainwater run off for the site will not increase, as the proposed building replaces current hard-standing areas of the existing car park.

DRAINAGE CALCULATIONS

Calculations based on Colebrook-White equation, BS EN 752-4 and BS EN12056-2

1. EXISTING FOUL DRAINAGE

Frequency Factor $k = 1.0$

Discharge Units:

W.C.	$1.4 \times 3 = 4.2$
Urinal	$1.7 \times 3 = 5.1$
Wash basin	$0.3 \times 3 = 0.9$
Sink	$1.3 \times 1 = 1.3$
Glass wash	$0.6 \times 1 = 0.6$

Total discharge units = 12.1 (DU)

$$Q = 1.0\sqrt{\sum DU}$$

$$Q = 1.0\sqrt{12.1} = 3.48$$

Total foul water discharge = **3.48l/s**

2. PROPOSED FOUL DRAINAGE

Frequency Factor $k = 0.7$

Discharge Units:

W.C.	$1.4 \times 6 = 8.4$
Urinal	$1.7 \times 4 = 6.8$
Wash basin	$0.3 \times 8 = 2.4$
Sink	$1.3 \times 2 = 2.6$
Glass wash	$0.6 \times 1 = 0.6$

Total discharge units = 20.8 (DU)

$$Q = 0.7\sqrt{\sum DU}$$

$$Q = 0.7\sqrt{20.8} = 3.19$$

Total foul water discharge = **3.19l/s**

2. PROPOSED SURFACE WATER DRAINAGE

Calculations based on Colebrook-White equation, BS EN 752-4 and BS EN12056-2

Calculations based on a rainfall intensity of 50mm/hr = 0.014l/s per square metre.

a. Roof run off discharging into boundary gutter

$$\text{max area} = 12.5 \times 22.00 = 275\text{m}^2$$

$$\text{max flow rate} = 275 \times 0.014 = \mathbf{3.85\text{l/s}}$$

APPENDIX A – UU SEWER RECORDS

Paul Derbyshire

**7
7 Beech Street, Lancashire
Clitheroe, United Kingdom
BB7 2LL**

FAO:

How to contact us:

**United Utilities Water Limited
Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP**

**Your Ref: 1720 CLITHEROE F.C.
Our Ref: UUPS-ORD-679762
Date: 25/09/2025**

Dear Sirs

Location: CLITHEROE F.C.

I acknowledge with thanks your request dated 24/09/2025 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. <http://www.unitedutilities.com/work-near-asset.aspx>.

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,

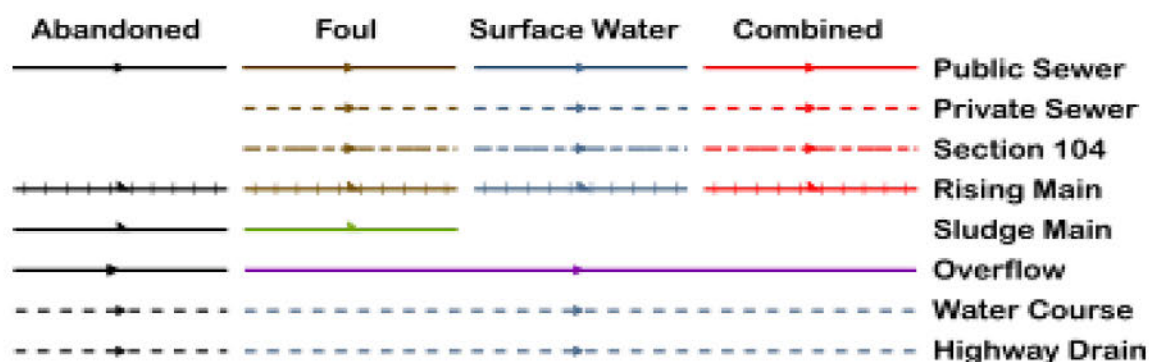
TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

TERMS AND CONDITIONS:

- This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
- The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

Wastewater Symbolology



All point assets follow the standard colour convention: **red** – combined **brown** - foul
blue – surface water **purple** - overflow

Manhole	Side Entry Manhole
Head of System	Outfall
Extent of Survey	Screen Chamber
Rodding Eye	Inspection Chamber
Inlet	Bifurcation Chamber
Discharge Point	Lamp Hole
Vortex	T Junction / Saddle
Penstock	Catchpit
Washout Chamber	Valve Chamber
Valve	Vent Column
Air Valve	Vortex Chamber
Non Return Valve	Penstock Chamber
Soakaway	Network Storage Tank
Gully	Sewer Overflow
Cascade	Ww Treatment Works
Flow Meter	Ww Pumping Station
Hatch Box	Septic Tank
Oil Interceptor	Control Kiosk
Summit	DNM Network Monitoring Point
Drop Shaft	Change of Characteristic
Orifice Plate	



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