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### **Drainage technical note - Land rear of 23-43 Moor Lane, BD19 4LF.**

This document is a covering letter to summarise design philosophy and technical details pertaining to storm and foul drainage design at land rear of 23-43 Moor Lane, BD19 4LF, referred to as the 'Site'. This document should be read in conjunction with the following drawings and documents.

- PV2511-APP-92-XX-CA-C-1000-P02 Drainage Calcs
- PV2511-APP-92-XX-DR-C-2500-P05 Drainage Plan
- PV2511-APP-92-XX-DR-C-2501-P04 Flood Exceedance Plan
- PV2511-APP-92-XX-DR-C-2502-P02 Surface Water Management Plan
- PV2511-APP-92-XX-RP-C-1002-P02 SuDS Maintenance Report

#### **Runoff Destination Hierarchy**

Drainage design has considered the following runoff priorities.

##### Collected for non-potable use

A shared rainwater harvesting system on not feasible due to spatial constraints. Some opportunities may exist for plot-based water re-use e.g. water butts.

##### Discharge to the ground

Discounted due to unsuitable ground conditions. See Drainage and Foul Sewerage Assessment by Haigh Huddleston ref: E22/7944/MD/L003A for details.

##### Discharge to Above Ground Water body

Discounted due to proximity of the nearest watercourse (~450m west of the Site) which would entail crossing and third party land.

##### Discharge to Surface Water Sewer

Site is proposing to discharge storm runoff to the 300mm storm sewer on Moor Lane.

Storm and foul water networks have been designed in compliance with BS EN 752, BS EN 12056 and Building Regulations Part H.

#### **Storm Drainage Strategy**

Storm and foul drainage networks flow through the Site in the general direction west to east, then south along plot 41 Moor Lane driveway and into the public sewer.

Storm network is designed to accommodate runoff for all storm events up to and including 1:100+45% climate change as per DEFRA peak rainfall allowances for the Aire and Calder management catchment. Runoff is restricted to 3.5l/s as agreed with the Yorkshire Water.

Two cellular crates (combined vol 230m<sup>3</sup>) have been proposed to provide upstream attenuation. Two flow controls chambers are proposed at S7 and S13 to allow surcharging of the attenuation crates as well as discharging storm water off site no greater than 3.5l/s.

### **Flood Exceedance**

Overland flows paths and flood exceedance routes are shown to illustrate where possible runoff will be contained on site, and in the rare event runoff cannot be contained, directed away from site whilst avoiding risk to people and property. In this case, the flood exceedance path is predominantly directed towards 41 Moor Lane's driveway and onto Moor Lane. Due to site levels (and by extension, drainage cover depths), the flood exceedance path could also runoff towards rear garden of 21 Summerdale. Flood exceedance paths are shown for epoch events and or significant failure to the drainage system (unlikely). The following measures further reduce risks of runoff heading away from the Site.

- 100mm kerb upstand along the right-hand road channel (crossfall) throughout the site.
- Trapped road gullies spaced at 150m<sup>2</sup> or less and double gullies at low spots.
- Linear drainage channels where shallow lateral gradients exist.
- Catchpit chambers to minimise blockages due to silting.
- Maintenance regime in line with C753 SuDS Manual.

### **Maintenance**

Site roads and drainage will be maintained by an appointed management company. The company will be responsible for ensuring periodic maintenance is carried out as set out in the SuDS Maintenance Report and faults are addressed within the agreed Service Level Agreement (SLA), not less than Local Highways Authority and Water Authority response times.

### **Foul Water Strategy:**

Foul network is proposed parallel to the storm network which follows an almost identical route to the outfall. Foul network will discharge to an 150mm combined water sewer to the rear garden of plot 43 driveway, which discharges to the public sewer on Moor Lane.

It is understood the drainage proposals were submitted to the Kirklees Planning Portal registered under ref: 2025/44/92737/E and have received the following consultee responses:

- Approved (no objections) by Yorkshire Water (YW) Planning Team (see consultee comments from YW dated 23/12/2025 ref: A/02700).
- Kirklees LLFA have responded to the drainage design as per the details below.
  - 05/11/25 – Design acceptable in principle pending further information pertaining to MH S12, tank details and maintenance regime.
  - 09/12/25 – Plans requested showing separate drainage (as YW sewer records), tank venting information and proforma maintenance records sheet. All requested information has been provided and discharge of conditions anticipated.

I trust the aforementioned provide insights into the drainage design philosophy and compliance with current legislation and best practice.

Yours sincerely,

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Senior Civil Engineer