

**Consultation Response from KC,  
Lead Local Flood Authority**

**2023/91116 Land off, Primrose Lane, Hightown, Liversedge, WF15**

**Erection of 77 dwellings, with access from Darley Road and associated works**

**Date Responded: 10/07/2024.**

**Responding Officer: Martin Stephenson**

**Responding Ref: 2**

**Previous response by the LLFA**

Dated 01/06/2023 for application 2023/91116

**Documents reviewed by the LLFA:**

Eastwood Consulting:

- Document Ref: 47685-001, Flood Risk Assessment, Rev 5 dated 05 January 2024.
- Document Ref: 47685, Causeway Calculations, dated 04/01/2024
- Drawing Ref: 47685-ECE-XX-XX-DR-C-0001, Impermeable Areas, Rev P03 dated 03/01/2024.
- Drawing Ref: 47685-ECE-XX-XX-DR-C-0003, Drainage Strategy, Rev P05 dated 03/01/2024.

**Drainage Summary:**

The LLFA confirms acceptance of the proposed discharge point for surface water into the YW Surface Water sewer in Darley Road (subject to YW approvals), however it is noted that, in the Causeway calculations, the proposed HydroBrake device has an outlet diameter of 72mm to achieve the design flow of 3.5 l/s against a design head of 2.55m. The minimum acceptable outlet diameter that the LLFA will accept is 75mm to minimise the risk of blockages (note this figure is also the minimum diameter of a surface water drain in Part H of the Building Regulations) . Therefore, the LLFA will accept a design flow rate of **3.8 l/s** for the same design head which will increase the outlet diameter to the minimum.

Further, the LLFA confirms the proposal to use a Carlow type tank with an attenuated flow storage volume of 1,484m<sup>3</sup> as indicated on the Drainage Strategy drawing.

However, it is noted that in the calculations, there is flooding indicated at Node 15 and the Tank Inlet for the 1 in 100 year (+CC) rainfall event. These volumes should be minimised as far as practicable.

Revised calculations/drawings indicating the changes noted above should be submitted to the LPA at the discharge of conditions stage.

**Kirklees Flood Management & Drainage as Lead Local Flood Authority SUPPORTS this application SUBJECT to the comments above and the recommended conditions set out in the previous LLFA Consultation Response dated 01/06/2023, but with the revised allowable surface water discharge rate of 3.8 l/s noted above.**