Consultation Response from KC, Lead Local Flood Authority
2024/91998 former, Almondbury High School, Fernside Avenue, Huddersfield, HD5 8PQ
Erection of special educational needs and disabilities school (Use Class F1), comprising educational buildings, roof mounted photo-voltaic panels, sensory garden spaces, multi- use games areas, landscaping, hardstanding areas, carparking, access with secure fencing and associated ancillary development
Date Responded: 19/08/2024. Responding Officer: Martin Stephenson Responding Ref: 1

Documents reviewed by the LLFA:

Frank Shaw Associates:

- WCS-FSA-XX-XX-DR-A-0001, Site Plan, Rev P03 dated 12/07/2024.

BWB:

- 22315-BWB-XX-XX-D-C-0500, Proposed Drainage Layout, Rev P03 dated 15/06/2024.
- 22315-BWB-ZZ-XX-RP-C-0001, Sustainable Drainage Statement, Rev P05 dated 15/07/2024.

LK Consult:

- FRA 22 1180, Flood Risk Assessment & Drainage Strategy, Rev – dated 02/2023.

Drainage Summary:

The LLFA accepts that infiltration to ground in not feasible and there is no suitable watercourse nearby, therefore the attenuated surface water should discharge to the Yorkshire Water sewer in Eastlands as indicated on the submitted Proposed Drainage Layout.

The LLFA notes the proposal to utilise a Tubersider type storage tank - however, please confirm the design life of the structure and any guarantees or BBA certification to ensure the tank will perform adequately for the duration of the development's life.

Further, it is noted that the proposed discharge rate stated in the Flood Risk Assessment & Drainage Strategy is 3.5 l/s whereas the drawing states a flow control device rated at 49.9 l/s is to be installed. Please revise either the FRA or the drawing so that they concur. However, note that the LLFA will accept the 49.9 l/s figure as it is based on 30% betterment of the existing surface water run-off rate. This discharge rate will need to be agreed with Yorkshire Water as the receiving sewer may not have sufficient capacity.

Full hydraulic calculations (e.g. MicroDrainage or Causeway) will need to be submitted to confirm that the proposed attenuation storage is sufficient to prevent flooding to new or existing buildings and there is no flooding off-site for the critical 1 in 100 year rainfall event (plus climate change).

Kirklees Flood Management & Drainage as Lead Local Flood Authority SUPPORTS this application SUBJECT to the comments above and the recommended conditions set out below.

DR01 Drainage Details
Development shall not commence until a detailed design scheme detailing foul, surface water and land drainage, including agreed discharge rate with the LLFA (**49.9 l/s**) indirectly or directly to watercourse, attenuation for the critical 1 in 100 (plus an allowance for climate change) rainfall event, attenuation construction details /design, plans and longitudinal sections, hydraulic calculations and phasing of drainage provision has been submitted to and approved in writing by the Local Planning Authority. The scheme shall include a risk assessment and method statement, in accordance with CDM Regulations 2015, for access to and into the attenuation structure, and the scheme shall include a maintenance and management plan for surface water infrastructure. No part of the development shall be occupied until such approved drainage scheme has been provided on the site to serve the development or each

agreed phasing of the development and retained thereafter.

DR07 Overland Flow Routing
The development shall not commence until an assessment of the effects of 1 in 100 year storm events, with an additional allowance for climate change, blockage scenarios and exceedance events on drainage infrastructure and surface water run-off pre and post development between the development and the surrounding area (both upstream and downstream of the development), has been submitted to and approved in writing by the Local Planning Authority. No part of the development shall be brought into use (dwellings shall not be occupied) until the works comprising the approved scheme have been completed and such approved scheme shall be retained thereafter.

DR10 Construction Phase Surface Water Flood Risk and Pollution prevention plan.
Development shall not commence until a scheme, detailing temporary surface water drainage for the construction phase (after soil and vegetation/site strip) has been submitted to and approved in writing by the Local Planning Authority. The scheme shall detail:

- phasing of the development and phasing of temporary drainage provision.
- include methods of preventing silt, debris and contaminants entering existing drainage systems and watercourses and how flooding of adjacent land is prevented.
- the strategy shall include a plan showing the location of the attenuation storage and supporting calculations, which shall be based on the critical 1 in 2-year storm. It should be assumed that once the site has been stripped that the percentage run-off will be 100 %. The maximum allowable off-site discharge rate shall not exceed 2.5 litres per second per ha, unless otherwise agreed with the LLFA.

The temporary works shall be implemented in accordance with the approved scheme and phasing. No phase of the development shall be commenced until the temporary works approved for that phase have been completed. The approved temporary drainage scheme shall be retained until the approved permanent surface water drainage system is in place and functioning in accordance with written notification to the Local Planning Authority.

DR20 Interceptor
Development shall not commence until a scheme demonstrating surface water from vehicle parking and hard standing areas passing through an oil/petrol interceptor of adequate capacity prior to discharge. Roof drainage should not be passed through any interceptor.