

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

2022/93248 Piazza Centre, Princess Alexandra Walk, Huddersfield, HD1 2RS

Demolition of existing Piazza shopping centre; part removal of Queensgate Market; demolition/retention of service tunnels; redevelopment of the site to form new public realm space (including public park and gardens, play areas, public square/outdoor event space); refurbishment and change of use of existing Queensgate Market Hall into food hall (Use Class E (b) sale of food and drink for consumption, mostly, on the premises); refurbishment and extension of existing library and art gallery building to form museum (Use Class F.1); change of use of part existing market hall building and extension to form public library (Use Class F.1); erection of indoor event venue incorporating multi-storey car park below (Sui-Generis); erection of public gallery building (Class F.1); associated infrastructure on land and buildings at Queensgate Market, Huddersfield Library and Art Gallery, and Piazza (and The Shambles) Shopping Centre (part Listed Building/part within a Conservation Area)

Date Responded: 28/10/2022

Responding Officer: Martin Stephenson

Responding Ref: 0

Documents reviewed by the LLFA:

Arup:

- Document Ref: CDT430201-ARP-XX-XX-RP-C-001001, Flood Risk Assessment, Rev P02 dated 30/09/2022
- Document Ref: CDT430201-ARP-XX-XX-RP-C-001002, Drainage Statement, Rev P02 dated 30/09/2022
- Drawing Ref: CDT430201-ARP-XX-XX DR-C-00002, Proposed Drainage Strategy, Rev P02 dated 23/09/2022 (contained in Appendix A of the Drainage Statement)

FCB:

- Drawing Ref: CDT430201-FCB-XX-LG-DR-A-020202, Huddersfield Masterplan, Proposed Roof Level Plan, Rev P01 dated 30/09/2022

Drainage Summary:

The LLFA confirms acceptance of the following as indicated in the Drainage Statement document and on the Proposed Drainage Strategy drawing:

- proposed climate change allowance of 40%
- allowable surface water discharge rate of **195 l/s** (based on 30% betterment of existing surface water run-off rate of 278 l/s equal to the current run-off from 2.0 ha) for the critical 1 in 100 year (plus climate change) rainfall event
- and the proposal to discharge attenuated surface water run-off into the existing (or diverted) YW Combined sewers crossing or adjacent to the site

Kirklees Flood Management and Drainage, as the Lead Local Flood Authority (LLFA), SUPPORTS this application and suggests the following drainage conditions

Suggested Drainage Conditions:

DR01 Drainage Details

Development shall not commence until a detailed design scheme detailing foul, surface water and land drainage, including agreed discharge rates with the LLFA of **195 l/s** to public sewers, attenuation for the critical 1 in 100 + climate change rainfall event, attenuation construction details /design, plans and longitudinal sections, hydraulic calculations, 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 5-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.