Growth & Environment

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Contact Flood Risk Management Team
Email FRMConsultations@hertfordshire.gov.uk

Date 16 December 2024

Dear Mr Lamb

RE: 3/24/1255/OUT - Land South of A507, West of A10, Buntingford

Thank you for your reconsultation regarding the above application (received 22 November 2024) for an outline planning application for development of employment land (flexible use B2, B8, E(c) and E(g)), informal open space, associated works and infrastructure including a new access from A507, with all matters reserved except for access.

Since our previous response, the applicant has updated the drainage strategy to use a HydroBrake with a different objective (linear discharge profile instead of minimising upstream storage). This results in a reduced discharge rate for all modelled return periods – as a result, we are able to remove our objection to this application. We would recommend the following conditions if you were minded to grant permission:

Condition 1

Prior to or in conjunction with the submission of each reserved matters application, in accordance with the submitted FRA and Drainage Strategy (23161-FRADS(S)-01 v4, Jubb Consulting Engineers Ltd) and drawing number SK-C-008 (Rev P6, November 2024) detailed designs of a surface water drainage scheme incorporating the following measures shall be submitted to and agreed with the Local Planning Authority. The approved scheme will be implemented prior to the first occupation of the development. The scheme shall address the following matters:

I. Detailed infiltration testing in accordance with BRE Digest 365 (or equivalent) along the length and proposed depth of the proposed infiltration feature/s.

Or

If infiltration is proven to be unfavourable, surface water runoff rates will be attenuated to QBAR as stated within section 6.2.10 of the FRA and Drainage Strategy.

II. Provision of surface water attenuation storage, sized and designed to accommodate the volume of water generated in all rainfall events up to and including the critical storm duration for the 3.33% AEP (1 in 30 year) and 1% AEP (1 in 100) rainfall events (both including allowances for climate change).

III. Detailed designs, modelling calculations and plans of the drainage conveyance network in the:

- 3.33% AEP (1 in 30 year) critical rainfall event plus climate change to show no flooding outside the drainage features on any part of the site.

- 1% AEP (1 in 100 year) critical rainfall plus climate change event to show, if any, the depth, volume and storage location of any flooding outside the drainage features, ensuring that flooding does not occur in any part of a building or any utility plant susceptible to water (e.g. pumping station or electricity substation) within the development. It will also show that no runoff during this event will leave the site uncontrolled.

IV. The design of any infiltration / attenuation / detention basin will incorporate an emergency spillway and any drainage structures include appropriate freeboard allowances. Plans to be submitted showing the routes for the management of exceedance surface water flow routes that minimise the risk to people and property during rainfall events in excess of 1% AEP (1 in 100) rainfall event plus climate change allowance.

V. Finished ground floor levels of properties are a minimum of 300mm above expected flood levels of all sources of flooding (including the ordinary watercourses, SuDS features and within any proposed drainage scheme) or 150mm above ground level, whichever is the more precautionary.

VI. Details of how all surface water management features to be designed in accordance with The SuDS Manual (CIRIA C753, 2015), including appropriate treatment stages for water quality prior to discharge.

VII. A maintenance and management plan detailing the activities required and details of who will adopt and maintain the all the surface water drainage features for the lifetime of the development.

Reason:
To prevent flooding in accordance with National Planning Policy Framework paragraphs 173,175 and 180 by ensuring the satisfactory management of local sources of flooding surface water flow paths, storage and disposal of surface water from the site in a range of rainfall events and ensuring the SuDS proposed operates as designed for the lifetime of the development.

Condition 2

Development shall not commence until details and a method statement for interim and temporary drainage measures during the demolition and construction phases have been submitted to and approved in writing by the Local Planning Authority. This information shall provide full details of who will be responsible for maintaining such temporary systems and demonstrate how the site will be drained to ensure there is no increase in the off-site flows, nor any pollution, debris and sediment to any receiving watercourse or sewer system. The site works and construction phase shall thereafter be carried out in accordance with approved method statement, unless alternative measures have been subsequently approved by the Planning Authority

Reason: To prevent flooding and pollution offsite in accordance with the NPPF.

Condition 3

The development hereby approved shall not be occupied until details of the maintenance and management of the sustainable drainage scheme have been submitted to and approved in writing by the Local Planning Authority. The drainage scheme shall be implemented prior to the first occupation of the development hereby approved and thereafter managed and maintained in accordance with the approved details in perpetuity. The Local Planning Authority shall be granted access to inspect the sustainable drainage scheme for the lifetime of the development. The details of the scheme to be submitted for approval shall include:

I. a timetable for its implementation.
II. details of SuDS feature and connecting drainage structures and maintenance requirement for each aspect including a drawing showing where they are located.
III. a management and maintenance plan for the lifetime of the development which shall include the arrangements for adoption by any public body or statutory undertaker, or any other arrangements to secure the operation of the sustainable drainage scheme throughout its lifetime. This will include the name and contact details of any appointed management company.

Reason: To ensure that the development achieves a high standard of sustainability and ensure the flood risk is adequately addressed for each new dwelling and not increased in accordance with NPPF and Policies of East Herts District Council.

Condition 4

Prior to first use of each phase of the development a detailed verification report, (appended with substantiating evidence demonstrating the approved construction details and specifications have been implemented in accordance with the surface water drainage scheme), has been submitted to and approved (in writing) by the Local Planning Authority. The verification report shall include a full set of “as built” drawings plus photographs of excavations (including soil profiles/horizons), any installation of any surface water drainage structures and control mechanisms.

Reason: To ensure that the development achieves a high standard of sustainability and ensure the flood risk is adequately addressed for each new dwelling and not increased in accordance with NPPF and Policies of East Herts District Council.

Informative

Please note if, you the Local Planning Authority review the application and decide to grant planning permission, notify the us (the Lead Local Flood Authority), by email at FRMConsultations@hertfordshire.gov.uk.

Yours sincerely

Jake

Jake Silverton
SuDS and Watercourses Support Officer
Growth and Environment

Annex

The following documents have been reviewed, which have been submitted to support the application;

- Preliminary Drainage Layout, Jubb Consulting Engineers Ltd, November 2024
- Greenfield Comparison and A10 Capacity Calculations, November 2024
- Updated Drainage Calculations
- Response to LLFA Comments, November 2024