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Julia Puton
Hertfordshire County Council
County Hall
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Our Ref: 171116
Your Ref: 6/2019/0857/MAJ

15 May 2019

Dear Julia

Re: Splashlands Development, Stanborough Park

Thank you for taking the time to meet with us last Wednesday to discuss your concerns relating to the Splashlands scheme. We have reviewed our proposal in response to your comments and I am pleased to be able to enclose the following documents for your review:

- Drawing No. 171116-CON-X-00-DR-C-1000; Rev. T2; *Drainage Strategy*
- Drawing No. 171116-CON-X-00-DR-C-1010; Rev. P1; *Catchment Plan*
- Calculations 171116-SW-1.3

For reference I've set out below how the design has been updated in response to your concerns.

Climate Change Allowance

Our calculations have been revised to incorporate an increased climate change allowance of 40% on the 1 in 100 year storm. The enclosed calculations demonstrate that there is no onsite flooding during this storm event and the discharge from the site is restricted to 2.0 L/s.

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Location of the Surface Water Outfall

Concerns were raised that the surface water outfall from the site is located within the flood plain of the river and below the modelled flood levels during some storm events. Due to the site layout there is insufficient height to raise the outfall above the river flood level. To demonstrate the resilience of the scheme we have run the drainage model for the 1 in 30 year storms with the outfall surcharged to 63.35 mAOD, which is approximately equivalent to the 1 in 30 year river flood level. The results of this model run show that there is no on-site flooding during this combination of events.

Extent of Impermeable Area

A catchment plan has been prepared to provide a reference for how the water from the redeveloped site will be managed. The different strategies are as follows:

- The retained toilet block will continue to use the existing drainage which will not be modified by the redevelopment.
- The majority of the new play area and surfacing will be tanked and discharge to a new headwall. The enclosed calculations demonstrate how this system will operate.
- The existing asphalt track across the site will be retained, surface water will be shed off the track to the adjacent soft landscaping; this mimics the current situation.
- The outdoor gym near the north-western edge of the site will consist of a permeable surface with an un-tanked sub-base. This will mimic the flow patterns from this area if it had remained an undeveloped (grassed) area. It is not feasible to install a drainage network from this location as there is insufficient depth to make a connection to the site outfall.

Yours sincerely

John Courtney
For Conisbee