From: Leamey, Helen
Sent: Tue, 3 Dec 2019 08:59:02 +0000
To: Plan Apps
Subject:FW: 2019/0366/FUL - Pennylands House, High Street, Skelmersdale - Drainage and flood risk
Attachments:ufm30.pdf

From: Drainage
Sent: 26 November 2019 15:27
To: Leamey, Helen <Helen.Leamey@westlancs.gov.uk>
Subject: 2019/0366/FUL - Pennylands House, High Street, Skelmersdale - Drainage and flood risk

Hi Helen,

I have now reviewed the Flood Risk and Surface Water Drainage Assessment (Ref: 3139-FRA Date: Oct 2018) and would comment as follows:

- I am happy to accept the proposed 50% reduction in existing flows but I don't see any evidence of how the existing flows are to be calculated. Section 24.5 of the SuDS Manual 2015 (CIRIA 753) gives very detailed guidance on how to estimate peak runoff rate and volume for a previously developed site. CIRIA state that the preferred option would always be to aspire to meet Greenfield runoff rates and volumes. Runoff characteristics can be estimated by:

  1. Simulating the existing drainage system for a 1 in 30 year storm and producing an accurate representation to develop a simulation model which derives a head-discharge relationship at the outfall pipes.

  2. Considering the site as being a Greenfield site and use a high runoff SOIL type in the normal Greenfield runoff and volume estimation calculations. Due to its simplicity this would normally be the preferred option as opposed to any hybrid methods the applicant may wish to discuss.

  3. Or, to use the urbanisation methods within the ReFH2 software.

  Whatever method is used the peak runoff rate for this development must be agreed with this LPA.

- the assessment refers to using existing public sewers for disposal of foul and surface water. It is clear to me that the foul and surface water drainage systems will be separate, with the foul going to either combined or foul public sewers. With regard to the disposal of the surface water reference is made to the Building Regulations hierarchal approach with level iii) being discharge to an adopted sewer. Here, level iii) should be subdivided to read surface water sewers/drains, then combined sewers in order of preference. There are highway drains and surface water

public sewers in close proximity to the site and these should be utilised, with no surface water going to the combined public sewer system.

For further guidance the applicant is advised to use the following link to gain access to a downloadable copy of the current WLBC guidance notes relating to drainage, flood risk and sustainability:

http://www.westlancs.gov.uk/planning.....registration-and-validation.aspx

As this is a major development I will defer to the LLFA for further comment.

Regards,

David Owens

Principal Engineer

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From: Plan Apps <plan.apps@westlancs.gov.uk>
Sent: 05 November 2019 11:34
To: Drainage <Drainage@westlancs.gov.uk>
Subject: Planning application consultation 2019/0366/FUL

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