



ENGINEERING

Mr Jon Sharpe
Lancaster House,
36 Orchard Street,
Lincoln
LN1 1XX

Our ref: JTC/2351

20th January 2020

Dear Mr Sharpe,

**Re: Residential Development on land south of Roman Road, Moulton
Chapel, Spalding, PE12 0XQ Application Reference: H13-1096-19**

I write with reference to the above development following the response dated 09.12.2019, and would like to comment as follows;

Firstly I note the comment requesting further evidence that the drain on the eastern side of the site is adequate to convey surface water run-off from the proposed development.

In relation to the capacity of the drain, comparison of the drain bed levels against adjacent bank levels indicates the depth of the drain to be approximately 1m whilst there is no significant catchment to the drain upstream of the site and therefore it is not considered that there is currently any significant flow through the drain at present. Given that surface water discharge from the site currently drains to the ditch along the eastern boundary via runoff and percolation and will continue to drain to this ditch with post development discharge rates restricted to the greenfield QBAR discharge rate of 5.0l/s it is considered that the drain will provide sufficient capacity to receive discharge from the site post development, as post development discharge will mimic that of a greenfield site.

In relation to the second comment requesting an explanation of how the detention basin in the central open space will operate. The Central detention basin provides a landscape feature as opposed to providing significant surface water attenuation for the proposed development, with such attenuation requirements being provided by basins located in the central southern area of the site. This is also confirmed by the Micro Drainage calculations which shows only a negligible amount of attenuation to be provided by the central basin, with attenuation principally being provided by the attenuation basins in the central southern part of the site.

I trust the above information provides clarification to outstanding queries raised by the Lead Local Flood Authority.

Yours sincerely

Shavonne Cooper,
For and on behalf of
MTC Engineering (Cambridge) Limited