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### **Confirmation of Compliance with Approved FRA in support of Application– White Post Road, Bodicote**

Infrastructure Design Ltd were commissioned by David Wilson Homes Mercia Ltd to prepare a drainage design for the above site. The site had an approved FRA undertaken by GRM Ltd (GRM/P6194/FRA.FINAL) dated July 2015. The site has been designed in line with that document.

The key points to note within the FRA;

1. The Flood Risk Assessment has been carried out in accordance with the requirements of National Planning Policy Framework which replaced Planning Policy Statement 25 'Development and Flood Risk' (Ref. 4) in March 2012.
2. With regard to Fluvial flooding the site is classed as Very Low, Flood Zone 1 according to the Environment Agency's classification.
3. There are parts of the site which are underlain by a Marlstone Rock formation which have soil infiltration characteristics suitable for conventional soakaways... The potential use of individual soakaways would need to be investigated further in the detailed design stage.
4. The storm water drainage strategy will be to connect into the existing surface water drainage network on-site, via an onsite balancing pond, restricted to a flow rate of 56l/s.
5. Pluvial Flooding shows a low risk of flooding from surface water which appears to following a natural valley within the site.

Items 1 and 2 remain constant and confirm that in planning terms that the NPPF Guidelines were followed at the time. It can also be confirmed that all ponds etc have followed CIRIA guidance in their construction, regarding side slopes gradients etc.

Item 3 – This is covered in more detail within the IDL Drainage Calculation Report dated July 2020. In summary, the report, along with ground investigations undertaken by RSK, shows that the areas thought to be suitable for infiltration are suitable, and the designs in that area utilise this where possible. As previously discussed this is further covered within the Drainage Calculation Report, which also includes all Private and Adopted Drainage Drawings.

Item 4 – As per Item 3, this is covered within the IDL Drainage Calculation Report and shows that the site has been restricted to a flow rate of 56l/s, which is as per the FRA. Thames Water have confirmed approval for the S104 for the site based on the drawings and Calculations with the IDL Drainage Calculation Report.

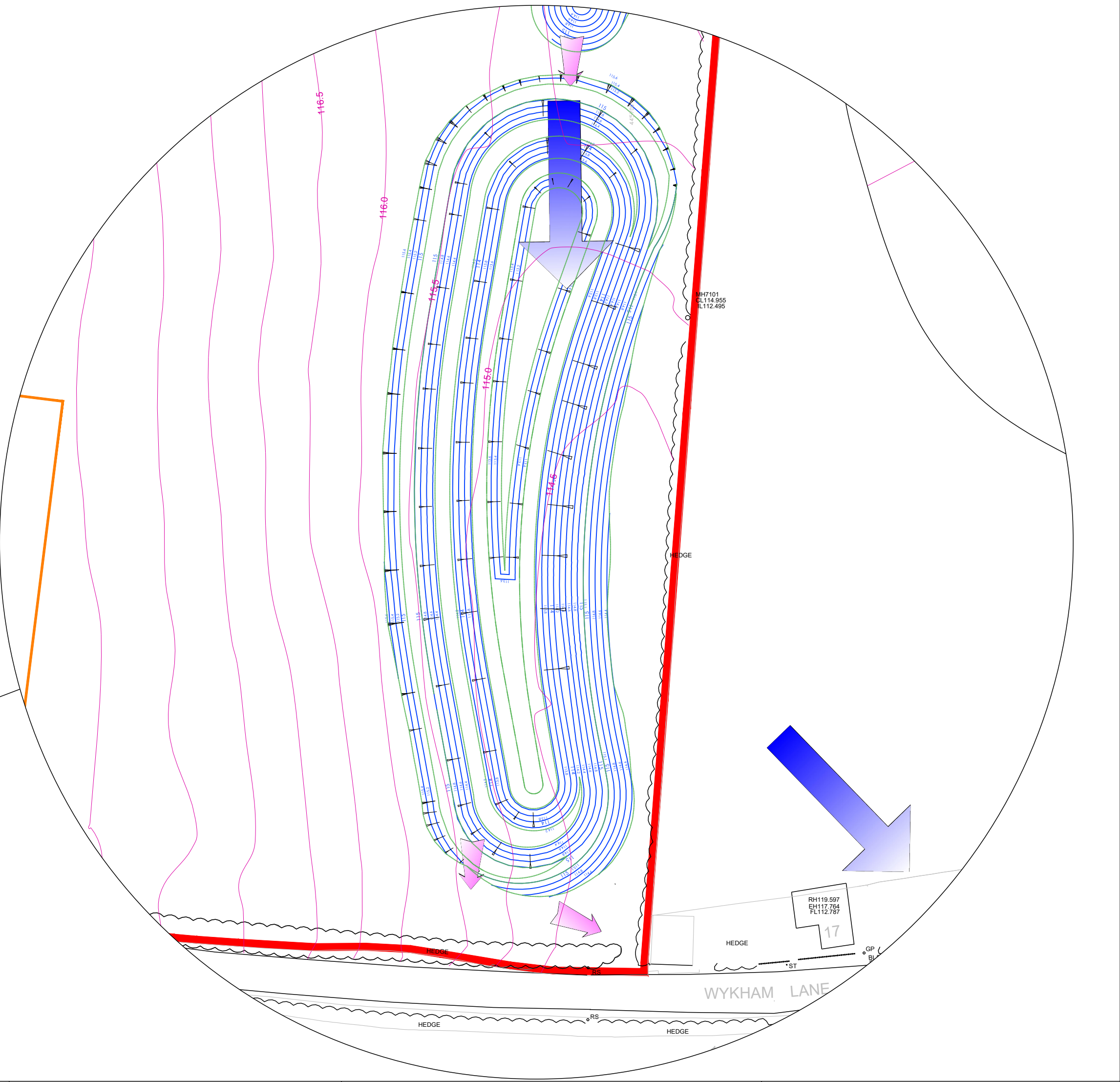
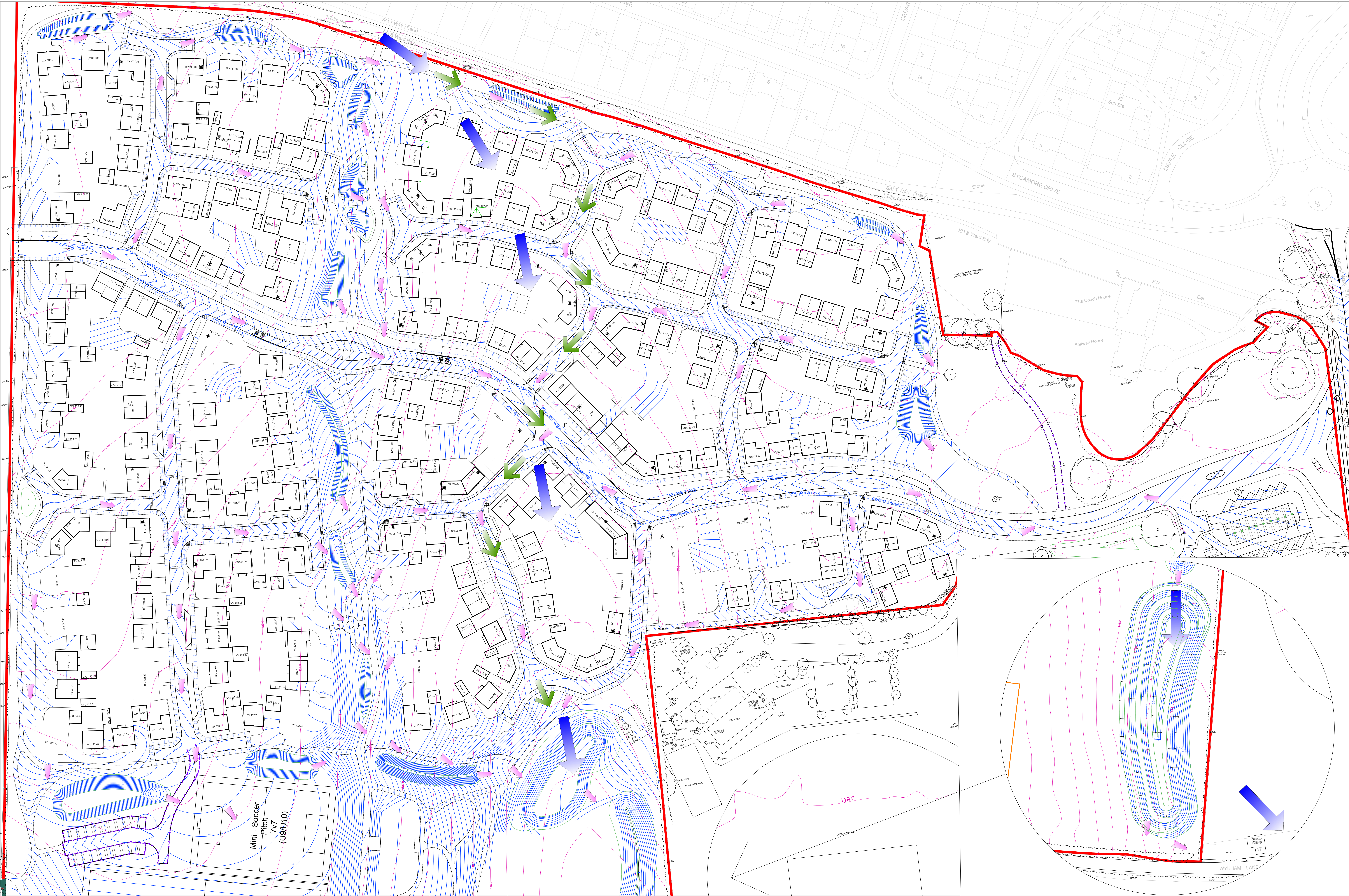
Item 5 - The original site has a natural valley running through the middle of the site. Due to planning constraints with regard to public rights of ways nearby, an open route along this valley could not be created, to allow for the low level surface water potential risk to remain within its existing pathway. The associated road pattern and more importantly the road levels have been designed to ensure that a constant fall from north to south is maintained within this road corridor, so should any surface flow arise, that it will follow this pathway. The existing and proposed flow path is shown on drawing 957-00-101, Surface Water Flow Management Plan.

This plan also shows, flood exceedance routes throughout the site, which shows that should there be any exceedance issue that the road corridors act as a conduit to allow the flows to be directed away from housing and into areas of POS.

In summary, the site has been designed in accordance with the approved FRA, and therefore is in compliance with Condition 8 of the Outline application.

**Rob Hill BSc MCIHT**  
**Director**  
**Infrastructure Design Ltd**  
**August 2020**  
**Project 957**





REV	DESCRIPTION	REV	DESCRIPTION	DATE

STATUS:	PRELIMINARY
SCALE:	1:500 @ A0
DATE:	August 2020
DRAWN:	IDL

TITLE:	Surface Water Flow Management Plan
PROJECT:	White Post Road, Bodicote
DRG. No:	957-00-101