

Arun District Council
Planning Department
C/O
Dandara Southern

Our Ref: AK/19-156-22952

Date 6th Oct 2020

By Email Only

Dear Sirs

Re : Land at Stakers Farm, Yapton – Y/72/20/RES

Further to the e-mail of the 22nd September 2020 containing drainage queries we would like to provide additional information to address these.

As a matter of clarification – following further design (including site finished levels) it became apparent that it was not feasible to incorporate an open infiltration basin feature without compromising the minimum requirement of having bank slopes at 1 in 3 and simultaneously half-drain within 24 hours during the 1 in 10 yrs storm event. It was decided therefore to incorporate a sub-surface infiltration blanket instead of a basin and the YAP-130-22B drainage strategy drawing and below comments reflect this amended design.

Reserved Matters Comments

1. *"The checklist has been corrupted as part of the scanning process. However, it is understood from previous dialogue and the adjacent site that all infiltration devices are kept to a maximum of 600mm depth. Yet many areas of permeable..."* - Arun DC checklist form itself allows for a single input only and in this instance it was chosen for the infiltration blanket (previously an infiltration basin) which has a base level of 5.000m AOD and thus being some 600mm below existing ground levels. All other infiltration features and their depths are designed with base level set above highest recorded ground water level for the closest monitoring station – please refer to drawing YAP-130-26A showing recorded ground water levels ('GW Level' in light blue text) and base levels of infiltration features.
2. *"It is understood that the permeable paving areas will not have a flat sub-base, please provide spot levels on the drainage layout showing finish and formation levels of permeable paving"* - Please refer to drawing YAP-130-26A.
3. *"Please provide impermeable areas plans that clearly show the areas draining to each surface water drainage feature. Preferably provide these in dwg to facilitate paperless review"*. – The overall areas are identified and measured on drawing YAP-130-25A (also provided in .dwg format for paperless review as requested). The Microdrainage printout "Land at Stakers Farm, Yapton_70 Units_SW network_revA" specifies roof areas contributing to each part of the network system and ultimately discharging into infiltration blanket. Permeable paving system caters for itself with its levels shown on drawing YAP-130-26A and full modelling with contributing areas presented on Microdrainage printout "Land at Stakers Farm, Yapton_70 Units_Permeable Paving model_revA_(excluding private drives)".

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		Southampton, SO51 2LT

4. *“Please provide network calculations in mdx format to facilitate paperless review”* – Please refer to relevant Microdrainage files.

DOC comments

2. *“Please provide two perpendicular site specific cross sections of the proposed infiltration basin. These should show invert level...”* – Infiltration basin is omitted in the current design and is replaced by the infiltration blanket. Please see drawing YAP-130-22B.

3. *“Please provide construction detail drawings of pipe bed and surround”* – Please refer to drawing YAP-180-31A.

4. *“Please clearly indicate on plans where the different permeable paving types shown on the construction drawing are proposed* - Please refer to drawings: YAP-150-72A, YAP-150-73A and YAP-180-35.

5. *“The maintenance manual will be reviewed...”* – No comments.

We trust we have addressed all your comments in full, however should you have any further questions please do not hesitate to contact us directly for explanation.

Yours faithfully

Arek Kadlec
Principal Engineer
(Romsey Office)