



Our Ref: TS/DAN/E4736/17675

26th May 2020

Arun District Council
Planning Department
C/O
Dandara Southern

By Email

Dear Sirs

FONTWELL –RESPONSE TO DRAINAGE COMMENTS

Further to the email of the 12th May relating to drainage queries with respects to the Discharge of Conditions information, we here forth enclose additional supporting information. In addition to this and for ease of reference we have listed below the queries with our associated responses and reference to additional information where required:

1. plot's 121 to 126 drain through a future phase, so we will need that part of the system fully detailed too. – Drawing FON130-07 has been updated to include the drainage run from these plots leading to the soakaway at the rear of plots 148 to 164
2. At present, there is insufficient level of detail provided.... – Full detailed design layout including, manhole/chamber schedules and construction details have now been provided.
3. All text associated with the drainage.... – Detailed Design Layouts which are provided have all the manhole references and pipe sizes. Gradients of main drainage is shown on the layout and on the associated long sections. All invert levels and covers levels are shown on the associated manhole schedules. These are not added to the layout drawings as this would make the layouts to clustered with text.
4. Are the roads to be adopted by WSCC?.... is any part of the surface water drainage to be adopted... - We can advise that neither the roads nor the onsite surface water drainage is proposed to be offered for adoption to WSCC. The foul drainage is proposed to be adopted by ICOSA Water
5. Provide supporting infiltration testing and groundwater monitoring data- The supplementary information, which formed part of the Drainage and SuDS Statement report have been appended to this letter provides the infiltration testing and

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groundwater monitoring data as well as copies of correspondence with ADC Drainage Officer Laura Gibbons at the time as ongoing liaison with ADC and to agree scope and parameters for testing and was carried out to inform the design.

6. *Fully detailed construction drawings ...* - This information is included in the updated detailed pack which contains construction details as well
7. *...the geocellular crates to receive an impermeable liner wrapping...* - This detail only interfaces with soakaways comprising of geocellular crates as well. A typical construction detail of this arrangement has been included in the construction pack
8. *Specify permeable paving finished surface levels and base levels ...* The finished levels for the permeable paving is provided per the contours and levels information on the external levels drawings. A separate formation levels drawing for the permeable paving has been produced and included in the construction pack to provide formation levels of the permeable paving. We can confirm that these are all standalone systems and not proposed to discharge to the infiltration basin;
9. *Indicated all pipe inverts, diameters, gradients, soakaway base and inlet levels-* This information is provided on the Domestic Drainage Layout drawings FON-130-01 to 10;
10. *Provide full catchment plan....* The eastern parts of this catchment area are now provided per drawings DAN/E4736/047 and 49.
11. *Infiltration construction detail....*-Gabion Details added to drawing FON-183-01 as well as note indicating that no planting is to take place around the basin
12. *Confirm whether the employment area will be discharging into the system* – We can advise that the employment area will not be discharging surface water into the development surface water network
13. *Spurs should be detailed where connections are expected for future phases* – Main spurs for the onsite surface water drainage has been indicated on the domestic drainage layout
14. *Granular Soakaway detail...*-This has now been updated and removed as only cellular crate soakaways are proposed.
15. *Hydraulic Calculations....* - These are appended to this letter and include the area falling in the infiltration basin as well as a surcharge outfall to simulate the soakaway peak water level. The orifice is part of a future phase within the eastern part of the development and is to restrict flows from that part of the development when it comes forward. It does not impact the current phase 1. The area of the infiltration basin has been included as part of the contributing impermeable areas

Yours sincerely

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ENGINEERING DIRECTOR

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