

[REDACTED]

From: Amanda Scholes on behalf of Planning.Responses
Sent: 07 January 2019 11:16
To: Planning Scanning
Subject: FW: A18237C. Kings Beach Hotel (P/83/18/DOC)

From: Simon Davis
Sent: 04 January 2019 14:17
To: Planning.Responses
Subject: FW: A18237C. Kings Beach Hotel (P/83/18/DOC)

Further Drainage Engineer comments

Kind Regards

Simon J. Davis MRTPI | Principal Planning Officer, Planning Department, Directorate of Place, Arun District Council |
Location: Planning, First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Please note that I typically work from home on Thursdays when I am unreachable on my work phone

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Save the environment - think before you print.

From: Laura Gibbons
Sent: 04 January 2019 14:15
To: 'Andy Johnson' [REDACTED]
Cc: 'Tom Hall' [REDACTED] Simon Davis [REDACTED]
Subject: RE: A18237C. Kings Beach Hotel (P/83/18/DOC)

Andy,

I do need to see the finish and formation levels specified on the layout plan too.

The calculations do not stipulate the capped depth of stone you state, you have only got invert and cover depths for the storage features. The difference between these is not equal to the depth of stone you stipulate, nor is there any other differentiation between void ratios of the various layers above the stone.

The stone depth required needs to equal or exceed the maximum water depth modelled. Either you model the invert and cover depths so that the difference is equal to the stone you propose, or you model total formation depths and take the maximum water depth calculated as the depth of stone required.

As a further check (which may help demonstrate my point) please ensure the free volume within the stone sub base is equal to or greater than the maximum water volume. If as you state in the eastern catchment you have 250mm of stone, free volume is $10*9*0.3*0.25=6.75 \text{ m}^3$, this is less than the maximum volume of water of 10.4 m^3 .

Therefore, the depth of stone needs to be increased.

Kind Regards,

Laura Gibbons, MEng, GMICE
Engineer (Drainage & Coastal)

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From: Andy Johnson [REDACTED]
Sent: 04 January 2019 13:50
To: Laura Gibbons
Cc: 'Tom Hall'; Simon Davis
Subject: RE: A18237C. Kings Beach Hotel (P/83/18/DOC)

Laura,

Apologies, I just updated that as I had the same request from site. Please find attached.

The dimensions you noted are the overall construction depth. This allows for the topping and sand blinding, the input stone depth in MicroDrainage is capped at 250/350 as required.

Kind Regards,

Engineering Andy Johnson
BSc BEng MEng CEng MICE
Principal Consultant

The Stilwell Partnership

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