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Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF
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From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>

Sent: 18 January 2022 14:49

To: David Easton <David.Easton@arun.gov.uk>

Subject: RE: GTR Fontwell Drainage Condition 12

Hi David,

1. Permeable paving extents are not very clearly shown, a small insert layout is provided on one layout only. Permeable paving extents should be clearly shown on all layouts.
2. Catchpits still have not been provided upstream of connections into permeable paving sub-base. Stating that there will be filter socks is insufficient. We acknowledge that the filter socks will prevent silt ingress into the sub-base, however over time the permeability of the filter material will decrease as silt builds up on it, with no easy means of maintenance.
3. It is not possible to review if appropriate cap volume depths have been applied to calculations without a more detailed construction detail drawing of the permeable paving.
4. Construction detail drawings should be site specific. So there should not be a hydrobrake included on details. Construction details of the infiltration basin should be provided including the headwalls into this.

5. Permeable paving construction detail drawing should fully detail the entire construction.

Given the length of time that this application has been open and the lack of progress I would recommend refusal at this stage.

Kind regards,

Laura Gibbons

Drainage Engineer

Engineering Services

Please note that I work Tuesdays 08:00-16:00 for Arun only.



T: 01903 221374

E: laura.gibbons@arun.gov.uk or [REDACTED]

Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF

From: David Easton <David.Easton@arun.gov.uk>

Sent: 14 January 2022 14:23

To: Laura Gibbons <laura.gibbons@arun.gov.uk>

Cc: Laura Gibbons [REDACTED]

Subject: FW: GTR Fontwell Drainage Condition 12

Hi Laura,

One for Tuesday (or whenever you have time).

Thanks,
David

From: John Carver [REDACTED]

Sent: 14 January 2022 13:32

To: David Easton <David.Easton@arun.gov.uk>

[REDACTED]

Subject: FW: GTR Fontwell Drainage Condition 12

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Dear David

Re the above please find the e-mail below together with the attachment's, it would nice if at long last this is all the ADC drainage officer needs so we can start work many thanks. Have a nice weekend

Kind regards

Jon

From: Daniel McLeish [REDACTED]

Sent: 14 January 2022 12:02

To: John Carver [REDACTED]

Subject: RE: GTR Fontwell Drainage Condition 12

Jon,

Please find attached the revised drawings and calculations as per the officer comments.

The drawings haven't really changed in content other than I changed one 450mm IC to a 600mm CP. I have added a diagram which hopefully makes the surfacing types clearer. I haven't shown a buildup for the SUDs pavement, your engineer may need to give further details. I have also produced a details drawing. The Council may want further details on the planting proposed for the pond if they don't already have that.

For the calcs I went through the task of adding in the Cap Depth to all of the porous pavement structures. It doesn't really make any difference as we designed not the flood, just a different way of modelling the system. One point to note is that there is additional surface water storage capacity where the pipes are deeper than the SUDs pavements. It is very difficult to accurately model these in the software, but it does mean there is some additional storage which we haven't taken into account so the calculations are conservative. I have added in a manhole schedule to the printouts which show the cover and invert levels at each chamber.

Regarding the comment on the catchpits, I changed one inspection chamber to a catchpit as noted above. For the spurs coming off I have left as rodding eyes to allow clearing of blockages, but as the system is sealed in these areas (under the SUDs pavements) and the perforated pipes will have filter socks, there is no way of silt entering them. On that basis additional catchpits would be pointless and the rodding eyes will serve that purpose.

That should now address their queries, but the drainage officer can contact me if they want to discuss anything further.

Regards

Daniel McLeish BEng CEng MICE DMS PGCE
Associate



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From: John Carver [REDACTED]
Sent: 11 January 2022 15:41

[REDACTED]

Subject: FW: GTR Fontwell Drainage Condition 12

Good afternoon Daniel

Have you had chance to look at this , It would nice get it sorted asap many thanks

Kind regards

Jon

From: John Carver [REDACTED]
Sent: 05 January 2022 17:00

[REDACTED]

Subject: FW: GTR Fontwell Drainage Condition 12

Good afternoon Daniel

Happy new year to you

Is it possible for to deal with this as a matter of urgency I have copied Simon Kenny who can provide any drawing you require and Nick Field can provide some levels etc many thanks

Kind regards

Jon

From: David Easton [<mailto:David.Easton@arun.gov.uk>]
Sent: 14 December 2021 09:46

To: John Carver [REDACTED]

[REDACTED]

Subject: RE: GTR Fontwell Drainage Condition 12

Dear John,

The drainage information provided last week has now been reviewed by our drainage engineers who have provided the following comments:

1. Permeable paving extents need to be more clearly defined on drainage layouts.
2. Catchpits do not appear to be provided upstream of all connections into permeable paving sub-bases, perforated pipes and bases.
3. Calculation printouts should include cover levels.

4. Permeable paving areas should have cap volume depths applied in calculations.
5. Construction detail drawings still have not been provided.

I would be grateful if these matters could be addressed.

Kind regards,
David

From: John Carver [REDACTED]
Sent: 08 December 2021 08:52
To: David Easton <David.Easton@arun.gov.uk>
[REDACTED]

Subject: FW: GTR Fontwell Drainage Condition 12

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Dear David

Please find for your approval the revised drainage details as requested

Kind regards

Jon

From: Daniel McLeish [REDACTED]
Sent: 07 December 2021 19:40
To: John Carver [REDACTED]
[REDACTED]

Subject: GTR Fontwell Drainage

Jon,
Please find attached the revised drainage layouts which now include the level information forwarded last Friday. Some of the falls on the parking are shown against the fall, so this has necessitated amendments to the pipework layout from that submitted previously.

You will note that the pavement levels also include formation levels for the permeable areas as requested by the drainage officer. To allow flow through the permeable pavements a Type 3 aggregate should be used. For the access/parking to the north and east the pavement is a minimum of 600mm thick (some steeper areas will get thicker at the high end) and for the south and west access & parking typically 450mm thick.

The concrete turning area has been included, and the changes to permeable/impermeable surfaces included in the calculations.

The calculations have included the increased values highlighted by the drainage officer. I have printed out the details of all of the structures and pipelines as they requested. There are options within Microdrainage for printing much more information if they so require.

We have also highlighted where there is a likely foul sewer diversion required. We note that some of the floor levels are lower than previous, including the basement and access, which has reduced the pipe cover below what would

be accepted by Southern Water. There is an obvious diversion route, but there would need to be a check on site for any existing utilities in that area.

The dissolution assessment was forwarded earlier as it is a large file.

This should hopefully now address their queries for Condition 12.

Regards

Daniel McLeish BEng CEng MICE DMS PGCE
Associate



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