

From: Amanda Scholes on behalf of Planning.Responses
Sent: 08 June 2020 11:15
To: Planning Scanning
Subject: FW: A/25/20/DOC - Arundel Rd - Additional Info - Updated AMS
Attachments: RE: A/144/19/DOC Land East of New Place Nursery, Arundel Road, Angmering

Amanda Scholes | Receptionist, Department, Arun District Council | Location: Ground Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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From: Anita Gardner <Anita.Gardner@arun.gov.uk>
Sent: 05 June 2020 14:23
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Subject: FW: A/25/20/DOC - Arundel Rd - Additional Info - Updated AMS

Please scan as correspondence with agent

Anita Gardner | Principal Planner, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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From: Anita Gardner
Sent: 05 June 2020 14:23
To: James Elsey [REDACTED]
Subject: FW: A/25/20/DOC - Arundel Rd - Additional Info - Updated AMS

Hi James,
Please see the e-mail below from our Drainage Engineer. Can you let me know what progress is being made with your Engineers and when I can expect to receive the additional info.
Thanks
Anita

Anita Gardner | Principal Planner, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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From: Paul Cann <Paul.Cann@arun.gov.uk>

Sent: 04 June 2020 16:36

To: Anita Gardner <Anita.Gardner@arun.gov.uk>

Cc: Sarah Burrow <Sarah.Burrow@arun.gov.uk>

Subject: RE: A/25/20/DOC - Arundel Rd - Additional Info - Updated AMS

Hi Anita

I note the trees affecting the proposed pipeline connecting into Arundel Road are to be removed, so that is good news from my point of view.

Regarding the drainage DOC, See attached my last email to the applicants engineer. Some items have been dealt with but the outstanding ones I believe are; items 11,24, 29 and 30.

Regards

Paul Cann

Principal Drainage Engineer
Engineering Services

T: 01903 737819

E: paul.cann@arun.gov.uk



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From: Anita Gardner <Anita.Gardner@arun.gov.uk>

Sent: 01 June 2020 14:10

To: Paul Cann <Paul.Cann@arun.gov.uk>

Subject: FW: A/25/20/DOC - Arundel Rd - Additional Info - Updated AMS

Hi Paul,

Are you happy with the current drainage and tree details submitted?

Thanks
Anita

Anita Gardner | Principal Planner, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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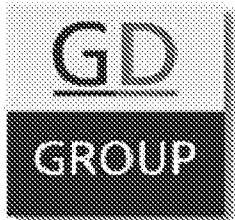
From: James Elsey [REDACTED]
Sent: 01 June 2020 07:36
To: Anita Gardner <Anita.Gardner@arun.gov.uk>; Mark Warwick <Mark.Warwick@arun.gov.uk>; Lisa Coney <Lisa.Coney@arun.gov.uk>
Cc: Joanna Davies [REDACTED] Chris Slade [REDACTED]
Subject: A/25/20/DOC - Arundel Rd - Additional Info - Updated AMS

Good Morning All,

As requested please see attached Arundel Road AMS Rev B. If you require any further information please don't hesitate to contact me.

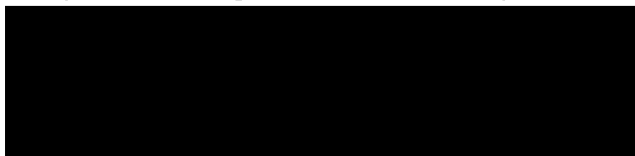
Kind regards

James Elsey



Construction Services

Basepoint, Little High Street, Shoreham by Sea, West Sussex, BN43 5EG



From: Paul Cann
Sent: 16 April 2020 15:50
To: Chris Slade
Cc: Luke Honeywill; James Elsey; Sarah Burrow; Kevin Macknay
Subject: RE: A/144/19/DOC Land East of New Place Nursery, Arundel Road, Angmering

Regarding item 1, I can now confirm that WSCC are happy with the jetting/root cutting works that have been carried out.

Regards

Paul Cann
Principal Engineer (Drainage)

Paul Cann | Principal Engineer (Drainage), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Internal: 37819 | External: +44 (0) 1903 737819 | Fax: +44 (0) 1903 716019 | E-mail: Paul.Cann@arun.gov.uk

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From: Paul Cann
Sent: 15 April 2020 10:42
To: Chris Slade [REDACTED]
Cc: Luke Honeywill [REDACTED]; James Elsey [REDACTED]; Sarah Burrow <Sarah.Burrow@arun.gov.uk>; Kevin Macknay [REDACTED]; Mark Warwick <Mark.Warwick@arun.gov.uk>
Subject: RE: A/144/19/DOC Land East of New Place Nursery, Arundel Road, Angmering

Hi Chris

I have listed below what I believe to now be the outstanding points;

1. Will be assessed once files have been downloaded by our IT dept.
2. Awaiting tree officers comments.
3. S25 to tank – gradient incorrect on plan and too steep. Suggest distributing fall evenly between S5 and tank.
4. Note added but levels still indicate invert to invert connection.
7. Advise intentions (and note on plan) what is to happen with trees T32 & T33, as these conflict with the pipeline.
9. Note not added to IC3?
11. Provide more details of the binder course material/advice from manufacturer. We need to be sure that fines cannot be washed into the sub base.
13. Awaiting tree officers comments.
24. Increase base thickness to 225mm.
25. Extend length of channel drain in plot 9. Add fully detailed construction drawing for channel drain.

29. Causeway flow calcs appear to be an old version?
30. Awaiting revised manual.

Look forward to receiving your revised proposals.

Regards

Paul Cann
Principal Engineer (Drainage)

Paul Cann | Principal Engineer (Drainage), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre,
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From: Chris Slade [REDACTED]

Sent: 07 April 2020 09:49

To: Paul Cann <Paul.Cann@arun.gov.uk>

Cc: Kevin Macknay [REDACTED]; Bruce Taunton <Bruce.Taunton@arun.gov.uk>; Sarah Burrow <Sarah.Burrow@arun.gov.uk>; Luke Honeywill <[REDACTED]>; Mark Warwick <Mark.Warwick@arun.gov.uk>; James Elsey <[REDACTED]>

Subject: Re: A/144/19/DOC Land East of New Place Nursery, Arundel Road, Angmering

Hi Paul

Thank you for the comments. Please find attached revised drawings and calculations.

We still need to send CCTV info, which is being undertaken today and SuDS report as we are waiting on manufacturers info. If you are able to review the rest however that would be appreciated.

Comments below in blue.

Kind regards

Chris Slade **FIHE**

CGS Civils Ltd

[REDACTED]



Drainage Design | SuDS | Flood Risk Assessments | Highways | External Works

Richard Cobden House | Lion Street | Chichester | West Sussex | PO19 1LW

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From: Paul Cann <Paul.Cann@arun.gov.uk>

Sent: 26 March 2020 10:14

To: Chris Slade <

Cc: Kevin Macknay <Bruce.Taunton@arun.gov.uk>; Sarah Burrow <Sarah.Burrow@arun.gov.uk>

Subject: RE: A/144/19/DOC Land East of New Place Nursery, Arundel Road, Angmering

Hi Chris

Comments on your proposals;

1. I am still awaiting WSCC to review the findings of the CCTV survey/jetting – I will contact you again once I get their feedback. The one thing that is clear, is the abundance of tree root issues, as expected. Agreement on this matter is critical to the whole scheme. – Further CCTV being undertaken today. This info will be with you shortly.
2. Please provide confirmation from our tree officer confirming that the tank is outside the existing and future root protection zones - Tree officer copied in.
3. Specify tank inlet and outlet invert levels on the layout plan - Done
4. New 150mm connection to 225mm highway drain to connect at soffit to soffit level. Make this clear on the layout plan - Done
5. Provide backdrop construction detail - Done
6. Add suitable note 'all connections not to manholes to connect via oblique junctions as per your construction details'. - Added
7. Pipes downstream of tank encroach into root zones. Please adjust as necessary to ensure they are not within existing or future tree root protection zones. Length S10 to HWD will probably need to be lengthened to achieve this and will require a 150mm concrete bed and surround (add note) to protect against root intrusion. Please indicate the clients proposals (on the plan) in respect to the vegetation in that area. - Adjusted.
8. Floatation calcs mention groundwater 1.3m bgl. Is this the peak recorded winter level at that location? - Yes. The pit was regularly inspected and this was the highest recorded level.
9. Existing manhole covers of IC1 and IC3 have broken covers as recorded on the CCTV survey and from visual inspection. Please could these be replaced in a similar manner as proposed for the manhole being connected to. Add locations/notes on plan. This will form part of any agreement under item 1 - Done.
10. Show permeable paving finished surface levels and base levels on plan - The finished levels are on the engineering layout plan and the depth is shown on the details sheet. Adding further notes to the drainage layout will clutter it.

11. Permeable paving – provide permeable geotextile layer between binder course and sub base to prevent migration of fines - This is not in accordance with the detail from Addafill and not usual. A geomembrane is at formation level.
12. Show finished road levels - Done.
13. Trees on southern boundary – pipes are within the root zones here – indicate proposals for these trees. Further discussion will need to be had and these will include our tree officer - Noted. This will be agreed with tree officer.
14. Provide manhole as close to the tank as possible on incoming pipe and provided the vented cover at this location rather than the one shown at S5. Manhole to also include a sump. Show ventilation link pipe on plan. Also alter construction details to suit this arrangement - Done
15. Provide manhole as close to the tank as possible on the tank outlet pipe - Done
16. Specify pipe materials of non-adopted drainage - Done
17. Specify gradient manhole S2 to gully - Done
18. Where pipes take flow from more than one property, connect these to a manhole on the carrier drain, rather than a junction - Done
19. Show plot numbers on plan - Done
20. Geosynthetic encapsulating polystorm unit – provide technical brochure extract detailing the tanking spec - Attached.
21. Add general note regarding manhole cover grades ie. grade and use - Done
22. Type B manhole – currently not being used anywhere? If being used, indicate where and specify step rungs/min 2 courses brickwork under frame and max. 4 courses. If not to be used delete from drawing but keep rocker pipe table for other manholes - Deleted.
23. Catchpit manhole – Specify base slab thickness/concrete grade. Indicate clear opening access dimensions - Done
24. Hydrobrake manhole – fully detail as per details on/required for type B manhole ie. base thickness, brickwork, cover, cover slab, ring diameter, concrete surround, etc - Done
25. Driveways are falling towards the properties. Whilst the sub base water is being collected by fin drains, additional measures need to be put in place to protect the property/garages should the permeable surface become blinded and ineffective. I would suggest a decent channel drain - Agreed. Channel drain added.
26. Catchpit required upstream of hydrobrake chamber (length S9 to S6) - Done
27. Provide manufacturers technical data sheet for hydrobrake. Due to the low flow rate, and the likely small diameter hydrobrake orifice, we may need to consider a vertical filter upstream to help prevent blockages - On SUDS report.
28. Manholes S9 and S22 – sealed covers noted. Can adjustments be made to reduce predicted water levels (for the 100yr+40%) in the system here? and raise cover levels further? - Sealed covers removed. From previous revision.
29. Microdrainage calculations - All done.
 - a. Use ratio r of 0.35
 - b. Provide revised calcs based upon the alterations to the system discussed in the above comments.
 - c. Provide network plan or add pipe numbers to layout plan.
 - d. Check all details in pipe network match what is shown on the layout plan ie. steep gradient shown S6 to S10, some cover levels and other gradients differ.
 - e. Provide catchment plan (to include m2 areas) to support calcs.
 - f. Label permeable pavement nodes on plan.
30. Maintenance manual - All done but waiting on info for the Storm Shark filter chamber. To be issued in due course.
 - a. Modify as necessary to take account of the alterations to the system discussed in the above comments.
 - b. Include channel drains (specifically) if they are to be installed and their reasons why.
 - c. Make particular mention of silt traps and the importance to keep them emptied ie. prevent a majority of silt entering the tank.
 - d. Include filter upstream of hydrobrake and its importance if one is specified.
 - e. Include recorded winter groundwater levels.

Look forward to receiving your revised details. Any questions, let me know.

Regards

Paul Cann
Principal Engineer (Drainage)

Paul Cann | Principal Engineer (Drainage), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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From: Chris Slade [REDACTED]
Sent: 16 March 2020 09:10
To: Paul Cann <Paul.Cann@arun.gov.uk>; Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Subject: FW: A/144/19/DOC Land East of New Place Nursery, Arundel Road, Angmering

Hi Paul & Sarah

Hope all is well with you both.

Just wondered how this check was coming along? Please do let me know if you need any further information.

Kind regards

Chris Slade **FIHE**
CGS Civils Ltd



Drainage Design | SuDS | Flood Risk Assessments | Highways | External Works

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From: Chris Slade
Sent: 04 March 2020 11:50
To: 'Dean Muggeridge' <[REDACTED]>

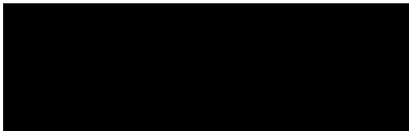
Cc: James Elsey [REDACTED]; Sarah Burrow <Sarah.Burrow@arun.gov.uk>; Paul Cann <Paul.Cann@arun.gov.uk>; Luke Honeywill [REDACTED]
Subject: A/144/19/DOC Land East of New Place Nursery, Arundel Road, Angmering

Hi Dean

Please find attached latest drainage layout, details and calculations for the above scheme for submission to Arun DC.

Kind regards

Chris Slade **FIHE**
CGS Civils Ltd



Drainage Design | SuDS | Flood Risk Assessments | Highways | External Works

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