

From: Anita Gardner
Sent: 02 October 2018 13:02
To: Planning.Responses
Subject: FW: FW: ASDA Ferring - Petrol station Drainage Plan. FG/149/18/DOC

Please add this information to the above application

Anita Gardner | Principal Planner, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37529 | External: +44 (0) 1903 737529 | E-mail: anita.gardner@arun.gov.uk

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From: Andrew Clifton [REDACTED]
Sent: 02 October 2018 13:01
[REDACTED]
Subject: RE: FW: ASDA Ferring - Petrol station Drainage Plan. FG/149/18/DOC

Thank you for your email Anita.

We would confirm that we would like the email trail below to be included in the application documentation in respect of the drainage condition discharge.

For completeness we have reviewed the information provided by Adept and attach the latest documents that should be formerly included/applied. This includes:

- Adept Drawing Ref - 05.16049-ACE-00-XX-DR-D-50-0101-P11 Proposed Drainage Layout.
- ASDA Ferring – Drainage Strategy Statement Rev P11.
- STORM SEWER DESIGN by the Modified Rational Method - Design Criteria for Storm.

Could you please substitute these for original documents submitted with the Conditional Discharge application.

Regards,

Andy Clifton Director

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[REDACTED]

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From: Josh Fanthorne <[REDACTED]>

Sent: 02 October 2018 12:08

To: Andy Clifton <[REDACTED]>

Subject: Fwd: FW: ASDA Ferring - Petrol station Drainage Plan. FG/149/18/DOC

----- Forwarded message -----

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

Date: Tue, 2 Oct 2018 at 11:10

Subject: FW: ASDA Ferring - Petrol station Drainage Plan. FG/149/18/DOC

To: [REDACTED]

Dear Mr Fanthorne,

This e-mail has been sent direct to our engineer. Can you advise if you as agent for the application would like the e-mail chain to form part of your application.

Regards

Anita Gardner

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 Gill [mailto:[REDACTED]]

Sent: 02 October 2018 09:55

To: Laura Gibbons

Cc: Lisa Coney; Anita Gardner

Subject: ASDA Ferring - Petrol station Drainage Plan.

Laura

I understand you've been on annual leave for the past few weeks, it would be appreciated if you could review the revised details sent through on the 21st September with a view to approving in the next few days.

Best regards,

[REDACTED]

Associate Director

For and on behalf of Adept Consulting Engineers Ltd

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Email [REDACTED]
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From: Paul Gill
Sent: 21 September 2018 14:42
To: 'Laura Gibbons' [REDACTED]
Cc: Lisa Coney [REDACTED]
Subject: ASDA Ferring - Petrol station Drainage Plan. [Filed 21 Sep 2018 14:43]

Laura

Please find attached revised calculations for the ASDA Petrol Station. As you can see there is no more flooding on the system after we increased the time of entry into the system from 2 minutes to 3 minutes. This is still within acceptable guidelines.

We trust the revised calculations meet with your approval.

Best regards,

[REDACTED]
Associate Director

For and on behalf of Adept Consulting Engineers Ltd

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From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>

Sent: 14 September 2018 10:12

To: Paul Gill <[REDACTED]>

Cc: Lisa Coney <[REDACTED]>

Subject: RE: ASDA Ferring - Petrol station Drainage Plan.

Hi Paul,

I wouldn't be happy with advocating the flooding of the main access road. Furthermore, the flooding location would be outside of the red line boundary and therefore is not acceptable. Please revise the design, i.e. provide more storage, to ensure that no flooding occurs off site for the 1 in 100 year plus climate change event.

Regards,

Laura Gibbons, MEng, GMICE

Engineer (Drainage & Coastal)

[Laura Gibbons](#) | Engineer (Drainage & Coastal), Engineering Services, [Arun District Council](#) | Location: First Floor, Arun Civic Centre,
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From: Paul Gill <[REDACTED]>

Sent: 10 September 2018 12:29

To: Laura Gibbons

Cc: Lisa Coney

Subject: ASDA Ferring - Petrol station Drainage Plan.

Importance: High

Laura

Please find attached revised calculations for the 1:100 year + 40% climate change, together with an up to date drawing showing the modifications.

As can be seen the system floods by 0.282m³. Based on the low point we estimate this to flood on the ASDA Access road where the two gullies are shown on the plan – Therefore no flooding water would leave the site for the 1:100 year + 40% storm event as this location would need to flood by up to 210mm high to pass the apex on the access road.

We have also update the pipe gradient for 1.001 which is now shown as 1:300.

We trust this meets with your approval and clarifies your comments to date on the system.

Best regards,

[REDACTED]
Associate Director

For and on behalf of Adept Consulting Engineers Ltd

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From: Laura Gibbons <laura.gibbons@arun.gov.uk>
Sent: 07 September 2018 15:44
To: Paul Gill <[REDACTED]>
Cc: Lisa Coney <lisa.coney@arun.gov.uk>
Subject: RE: ASDA Ferring - Petrol station Drainage Plan.

Paul,

My original consultation response on the 19th June stated the requirement for 1 in 100 year plus 40% climate change. This is in accordance with NPPF guidance. Please submit the calculations showing what volumes we are dealing with and details of how this will be contained on site.

Thanks,

Laura Gibbons, MEng, GMICE

Engineer (Drainage & Coastal)

[Laura Gibbons](#) | Engineer (Drainage & Coastal), Engineering Services, [Arun District Council](#) | Location: First Floor, Arun Civic Centre,
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From: Paul Gill <[REDACTED]>
Sent: 07 September 2018 14:32
To: Laura Gibbons
Cc: Lisa Coney
Subject: ASDA Ferring - Petrol station Drainage Plan.

Laura

Bob is away on Holiday at present, however my comments on your email are as below.

1. We have had numerous pieces of correspondence and provided calculations where it has been stated that we are designing for the 1:100 + 30%. Why has it only now been stated that the drainage system needs to allow for the 1:100 + 40% storm event?

As far as we are aware it is only a requirement to store the 1:30 year storms below ground level and any exceedance events above this are allowed to flood private land – providing this water does not actually leave the site. Currently we have ensured that the 1:100 + 30% events store all water below the ground – my initial thoughts are that the additional 10% climate change will result in some flooding of the system – however providing this can be retained on site we wouldn't deem this as a problem – would you agree? If so we can run the calculation again to check what volume this equates to.

2. We will review Pipe 1.001 and update the model to a gradient of 1:300 which is acceptable for a 300 dia pipe.

Best regards,

[REDACTED]

Associate Director

For and on behalf of Adept Consulting Engineers Ltd



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From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>
Sent: 07 September 2018 14:14
To: Paul Gill [REDACTED]
Cc: Lisa Coney <Lisa.Coney@arun.gov.uk>
Subject: RE: ASDa Ferring - Petrol station Drainage Plan.

Hi Paul,

I have reviewed the design and the information provided to me by Bob Marshall.

Pipe 1.001 has a modelled fall of 1:800, is this correct? This pipe isn't achieving the minimum 1ms^{-1} velocity as a result. Please review.

The design needs to be completed to show that the system has capacity to contain the 1 in 100 year plus 40% climate change event.

Regards,

Laura Gibbons, MEng, GMICE

Engineer (Drainage & Coastal)

[Laura Gibbons](#) | Engineer (Drainage & Coastal), Engineering Services, [Arun District Council](#) | Location: First Floor, Arun Civic Centre,
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From: Paul Gill [REDACTED]
Sent: 30 August 2018 08:38
To: Laura Gibbons
Subject: ASDa Ferring - Petrol station Drainage Plan.

Laura

Further to recent correspondence on the project, please find attached our updated drawing which now ties up with the calcs and sketch drawings previously sent through last week.

We trust this meets with your approval.

Best regards,

[REDACTED]
Associate Director

For and on behalf of Adept Consulting Engineers Ltd

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