[redacted]

[redacted]

Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF
www.arun.gov.uk

From: Paul Cann <Paul.Cann@arun.gov.uk>
Sent: 09 June 2021 15:04
To: Chris Hendry [redacted]
Subject: RE: Ordinary Watercourse Land Drainage Consent Application - Canal Mews-Barnham BN/44/21/DOC

Hi Chris

I know you have left a voicemail but hopefully my email below is self-explanatory – any issues let me know.

I paid a visit to site whilst passing the area today, so my comments below also reflect what I found;

1. I understand the fee will be paid on Friday.
2. I lifted the existing manhole, the pipeline being connected to is 200mm diameter as per our records and is pitch fibre. The pipeline downstream is 150mm as expected. Please alter diameter on drawings accordingly. Due to the pipe being pitch fibre which are known to deform in shape very easily and ultimately fail structurally, we will require a CCTV survey to confirm that it is in good working order, especially as the existing boundary fence has been constructed potentially very close to it. Please add a suitable note to the drawing, etc. The junction will need to be 200mm diameter, which you may not find to be readily available off the shelf.
3. Please indicate the proposed oblique junction on the drawing. Estimated invert level for the connection can be calculated as you have existing levels on the culvert both upstream and downstream.
4. An oblique junction is acceptable, a new manhole is a nice to have and would aid future maintenance. If sufficient room is found to accommodate a manhole (once the culvert has been located relative to the

fence), then a manhole would be welcomed. This can be discussed once the contractor is on site and if your client is willing to consider this option.

5. Is the existing fence to be retained or is it to be replaced? Either way we need to ensure there is no detrimental effect on the culvert, in terms of the fence post construction. This can only be determined once the culvert location is known, so several trial holes will be required to locate the culvert once the contractor is on site. The findings can then be discussed. Please add a suitable note to the drawings.

Look forward to receiving your revised drawings. Obviously my comments need to be read in conjunction with Laura's to ensure the drawings reflect both the acceptable suds design and land drainage consent.

Regards

Paul Cann
Principal Drainage Engineer
Engineering Services

T: 01903 737819
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From: Chris Hendry [redacted]
Sent: 08 June 2021 18:10
To: Paul Cann <Paul.Cann@arun.gov.uk>
[redacted]
Subject: RE: Ordinary Watercourse Land Drainage Consent Application - Canal Mews-Barnham BN/44/21/DOC

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Hi Paul,

Thanks for your response. I have added in some comments below in blue.

Kind regards,

Chris

ARCH ASSOCIATES
CONSULTING CIVIL AND STRUCTURAL ENGINEERS

Chris Hendry MSc CEng MIStructE
Director
[redacted]

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From: Paul Cann <Paul.Cann@arun.gov.uk>
Sent: 08 June 2021 16:23
To: Chris Hendry [redacted]
[redacted]
Subject: RE: Ordinary Watercourse Land Drainage Consent Application - Canal Mews-Barnham BN/44/21/DOC

Hi Chris

Comments on proposals;

1. I note the existing culvert is shown as 225mm diameter – have you checked this is 100% correct as our records show it to be 200mm diameter, (and reducing to 150mm diameter at the existing downstream manhole). This could be critical when discussing the method and level of connection below. One of our engineers went to measure the pipe and actually read it as 225mm but this was from the manhole and so it is possible there could be 25mm discrepancy.

2. A saddle connection would not be permitted to a culvert of this diameter. An oblique 45 degree junction would be required ensuring that your connecting pipe connects at soffit to soffit level. Pipe junction material to be specified. The junction would be connected to the existing pipe using 'flexseal' couplings or similar approved. Agreed, we will show an oblique 45 degree coupling and I suggest that the point of connection be investigated by trial pit on site once works commence to confirm the exact invert at connection. There is scope to make small adjustments to ensure a soffit to soffit connection.

3. The preference to a junction would be to construct a sump manhole at the point of connection but this all depends on the exact location of the culvert and any boundary fencing as we need to avoid any issues with being able to lift the manhole cover in the future. I enclosed our standard manhole details for information. We have avoided a manhole connection as it appears to sit under a fence and there seemed to be good access for rodding. However, when the trial pit investigation mentioned above is undertaken we can confirm the exact location and, if possible, change to a manhole arrangement. However, if the pipe is directly under the fence as currently assumed, are you able to accept the oblique junction?

4. Fees will be £150 which can be paid via BACS or online – see enclosed text file. Many thanks for the file. BACs will be paid by Seaward this week ending 11th June

5. Due to high groundwater here, at least the crates will require an impermeable liner as opposed to permeable. I am sure Laura will pick up on this during her appraisal of the suds design. Laura picked this up in her last round of comments and we have updated to suit and submitted.

Look forward to hearing from you further.

Regards

Paul Cann
Principal Drainage Engineer
Engineering Services

T: 01903 737819
E: paul.cann@arun.gov.uk

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From: Chris Hendry [redacted]
Sent: 18 May 2021 19:16
To: Paul Cann <Paul.Cann@arun.gov.uk>
[redacted]
Subject: Ordinary Watercourse Land Drainage Consent Application - Canal Mews-Barnham BN/44/21/DOC

Hi Paul,

I attach the completed OWLDC application form plus the supporting drawings for the proposed development in Barnham. BN/44/21/DOC

The updated Drainage Statement has been sent to my Client and so this will no doubt be submitted through the appropriate channels soon for Laura to review but I thought we could hopefully get the ball rolling with this in the meantime.

Kind regards,

Chris

ARCH ASSOCIATES
CONSULTING CIVIL AND STRUCTURAL ENGINEERS

Chris Hendry MSc CEng MIStructE
Director
[redacted]

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