

Thomas Fillingham

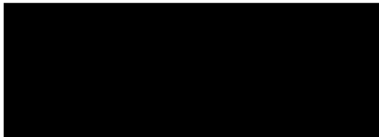
From: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>
Sent: 09 January 2025 14:50
To: Thomas Fillingham
Subject: RE: Humber Doucy Lane - Common Ground
Categories: 890695

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Hi Thomas,


I have everything I need for now. We will be in touch in due course, thank you for the quick turnaround.

Kind regards,



Benjamin Locksmith BSc (Hons) (He/Him)
Flood And Water Engineer
Flood and Water Management (LLFA)
Email: Benjamin.locksmith@suffolk.gov.uk
I will not be available on Fridays

From: Thomas Fillingham [REDACTED]
Sent: 09 January 2025 14:49
To: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>
Subject: RE: Humber Doucy Lane - Common Ground

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Afternoon Benjamin,

Just checking that you have everything you need.

Please give me a ring if there is anything left to discuss.

Kind regards,

Thomas Fillingham
Senior Infrastructure Engineer



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From: Thomas Fillingham <[REDACTED]>
Sent: 09 January 2025 12:35
To: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>
Subject: RE: Humber Doucy Lane - Common Ground

Same as those sent yesterday. Just renamed for clarity.

Requested calcs attached.

Kind regards,

Thomas Fillingham
Senior Infrastructure Engineer



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From: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>
Sent: 09 January 2025 12:23
To: Thomas Fillingham [REDACTED]
Subject: RE: Humber Doucy Lane - Common Ground

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Thomas,


Could you please provide catchment 1 modelling output 1 in 1/1 in 10/ 1 in 30/ 1 in 100 all with climate change please with up to 1440 minutes storm simulation for completeness. Shouldn't need anything else at this time. I assume the other catchments modelling outputs haven't changed?

Kind regards,



Benjamin Locksmith BSc (Hons) (He/Him)
Flood And Water Engineer
Flood and Water Management (LLFA)
Email: Benjamin.locksmith@suffolk.gov.uk
I will not be available on Fridays

From: Thomas Fillingham <[REDACTED]>
Sent: 09 January 2025 12:14
To: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>
Subject: RE: Humber Doucy Lane - Common Ground

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Currently modelled as pipes. Only did the swale modelling in network one to demonstrate the principles.

Kind regards,

Thomas Fillingham
Senior Infrastructure Engineer



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From: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>
Sent: 09 January 2025 12:12
To: Thomas Fillingham <[REDACTED]>
Subject: RE: Humber Doucy Lane - Common Ground

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Thomas,

Apologies – can you provide the swale nodes for the other catchments or are these modelled as pipes currently?

Kind regards,



Benjamin Locksmith BSc (Hons) (He/Him)
Flood And Water Engineer
Flood and Water Management (LLFA)
Email: Benjamin.locksmith@suffolk.gov.uk
I will not be available on Fridays

From: Thomas Fillingham [REDACTED]
Sent: 09 January 2025 12:10
To: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>
Subject: RE: Humber Doucy Lane - Common Ground

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Benjamin,

Each network starts again from 1 if that's what your asking.

Kind regards,

Thomas Fillingham
Senior Infrastructure Engineer



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From: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>
Sent: 09 January 2025 12:04
To: Thomas Fillingham <[REDACTED]>
Subject: RE: Humber Doucy Lane - Common Ground

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Hi Thomas,


Do the node numberings repeat for each of the catchments/strategic swales?

Kind regards,



Benjamin Locksmith BSc (Hons) (He/Him)
Flood And Water Engineer
Flood and Water Management (LLFA)
Email: Benjamin.locksmith@suffolk.gov.uk
I will not be available on Fridays

From: Thomas Fillingham <[REDACTED]>
Sent: 09 January 2025 11:00
To: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>; Hannah Purkis <Hannah.Purkis@suffolk.gov.uk>
Cc: Kevin Coleman <[REDACTED]>; Rupert Domoney <[REDACTED]>; Neil McManus <Neil.McManus@suffolk.gov.uk>; Peter Freer <Peter.Freer@suffolk.gov.uk>
Subject: RE: Humber Doucy Lane - Common Ground

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Benjamin,

Please see attached requested calculation sheets. I have renamed the previously sent file as 1in100 + CC and produced a new set focusing on 1in1 storms, named appropriately.

As discussed for the swale modelling we have used strategic swale 1a as the example, which can be found in Network 1.

Nodes:

7
11
14
16

Links:

12.003
12.004
12.005
12.006

As demonstrated in the calculations during the 1in1 year storms the maximum velocities are under 0.3m/s as per the SuDS manual. This is achieved in the calculations by adjusting the Mannings value of the swale to 0.08. This value can be achieved through planting, aided by the addition of check dams.

This example was then used as the basis for the retention time calculations for the rest of the swales which are based on the maximum length in the swale from head of the run to outfall, running at 0.3m/s.

The storage nodes for the various networks are as follows:

Catchment 1 – Network 1 = 47

Catchment 2 – Network 2 = 7
Catchment 3 – Network 3 = 50, 31_OUT
Catchment 4 – Network 4 = 4_OUT
Catchment 5 – Network 5 = 8_OUT

As discussed, the basin retention times will be achieved using the permeable berms referenced on drawing 0010, the first flush will have its velocity significantly reduced upon reaching the berm allowing the settlement of any sediment prior to percolating through the gabion baskets and dissipating across the rest of the basin.

Kind regards,

Thomas Fillingham
Senior Infrastructure Engineer



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From: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>

Sent: 09 January 2025 10:23

To: Thomas Fillingham <[REDACTED]>; Hannah Purkis <Hannah.Purkis@suffolk.gov.uk>

Cc: Kevin Coleman <[REDACTED]>; Rupert Domoney <[REDACTED]>; Neil McManus <Neil.McManus@suffolk.gov.uk>; Peter Freer <Peter.Freer@suffolk.gov.uk>

Subject: RE: Humber Doucy Lane - Common Ground

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Hi Thomas,

Please can you provide:

A list identifying what each swale and basin relates to in the calcs i.e.; basin 1 is node 35 or similar for simplicity.
1 in 1 year 15/30m outputs both with and without climate change.

I will review and turnaround immediately on receipt.


Kind regards,



Benjamin Locksmith BSc (Hons) (He/Him)
Flood And Water Engineer
Flood and Water Management (LLFA)
Email: Benjamin.locksmith@suffolk.gov.uk

I will not be available on Fridays

From: Thomas Fillingham <[REDACTED]>
Sent: 08 January 2025 16:29
To: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>; Hannah Purkis <Hannah.Purkis@suffolk.gov.uk>
Cc: Kevin Coleman [REDACTED]; Rupert Domoney [REDACTED] Neil McManus <Neil.McManus@suffolk.gov.uk>; Peter Freer <Peter.Freer@suffolk.gov.uk>
Subject: RE: Humber Doucy Lane - Common Ground

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Benjamin,

Thanks for your email below.

Please see attached a revised plan drawing, details drawing and drainage calculations to suit the outstanding comments.

If there is anything you wish to discuss that might be easier to do on teams let me know and we can set up a quick teams call to finalise.

The changes include:

0007:

- 1.5m wide safety benches added to all basins, and water depths reduced to less than 1m where necessary. Basin 3a sized adjusted accordingly.
- Additional detail added to strategic swale detail
- Inclusion on highway swale detail
- Inclusion of worst case simple index approach calculations
- Inclusion of highway swale size, length and retention times.

0010:

- Inclusion of 1.5m wide safety benching
- Inclusion of inlet forebays
- Inclusion of incoming pipe levels

Revised drainage calculations to support the updated drainage plan.

Kind regards,

Thomas Fillingham
Senior Infrastructure Engineer



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From: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>
Sent: 07 January 2025 11:10
To: Thomas Fillingham [REDACTED] Hannah Purkis <Hannah.Purkis@suffolk.gov.uk>
Cc: Kevin Coleman <[REDACTED]>; Rupert Domoney <[REDACTED]>; Neil McManus <Neil.McManus@suffolk.gov.uk>; Peter Freer <Peter.Freer@suffolk.gov.uk>
Subject: RE: Humber Doucy Lane - Common Ground

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Hi Thomas,

Thankyou, you too.

Yes, as per the statement of common ground there is some legwork to be done but the outstanding remaining points *should* be relatively simple to agree as it is mostly technical updating etc.


I will make myself available to try and agree as much as we can as it would be desirable for all parties to reach full agreement.

Kind regards,



Benjamin Locksmith BSc (Hons) (He/Him)
Flood And Water Engineer
Flood and Water Management (LLFA)
Email: Benjamin.locksmith@suffolk.gov.uk
I will not be available on Fridays

From: Thomas Fillingham <[REDACTED]>
Sent: 06 January 2025 11:16
To: Benjamin Locksmith <Benjamin.Locksmith@suffolk.gov.uk>; Hannah Purkis <Hannah.Purkis@suffolk.gov.uk>
Cc: Kevin Coleman [REDACTED] Rupert Domoney [REDACTED]
Subject: RE: Humber Doucy Lane - Common Ground

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Morning both,

I hope you had a good break and new year.

Prior to the holidays when were working together on the statement on common ground it was discussed that there would be room for further discussion in the new year in the hope, we could find more common ground.

We just wanted to confirm that this is still your position.

Kind regards,

Thomas Fillingham
Senior Infrastructure Engineer



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