

Claire Pegg/GBR

From: wastewaterdeveloperservices@uuplc.co.uk
Sent: 08 September 2022 13:41
To: Tara Urding
Cc: Dameon Kilgour; Billy Hayton; Tony Spencer
Subject: RE: PDE 4200034146 Junction of Deansgate South M3 4LB (20047) - New Ref. 0237423
Attachments: ATT00001.txt

Good afternoon Tara,

Regarding your first email, we preferred the second solution, which is "move the permeable paving control to a location downstream from the bottle gullies so that the discharge backs up into the permeable paving. Controls would be adjusted to ensure 5.0 l/s is not exceeded."

Please amend the drainage design to be consistent with what is stated above.

Regarding your second email, the 225mm combined sewer within Deansgate to the Northeast of the proposed site is subject to periodic surcharging (highlighted in yellow), and the water level was estimated for 1 in 100 years storm event at 28.394m AOD.

However, we don't believe that this surcharge will affect your site. Also, the surcharge in the 225mm combined sewer within Deansgate occurs in a separate network than the one your site will connect to. Furthermore, our modelling data for the overflow pipe at the junction with Deansgate and Owen Street predicted for 1 in 100 years storm event at 24.327m AOD where the manhole cover level at 29.584m AOD (no surcharge).

The surcharged manholes are highlighted in yellow below.

Kind regards,



Mohammed Aljafarawi (He/Him)
Developer Engineer
Developer Services & Metering
Customer Services
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----- Original Message -----

From: Tara Urding [tara@shear-design.com]
Sent: 31/08/2022 14:55
To: wastewaterdeveloperservices@uuplc.co.uk
Cc: dameon@shear-design.com; billy@shear-design.com; tony@shear-design.com
Subject: RE: PDE 4200034146 Junction of Deansgate South M3 4LB (20047) - New Ref. 0237423

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Afternoon Mohammed

I attach our update drainage layouts and these include amendments to address your comments.

We are aware that the sewers in Deansgate are subject to periodic surcharging and that an overflow pipe is present at the junction with Owen Street which allows excess water to escape to the River Medlock. Please would you confirm if this is correct and provide the surcharge water level.

Kind regards

Tara Urding

Civil Engineer

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From: Tara Urding
Sent: 24 August 2022 11:49
To: wastewaterdeveloperservices@uuplc.co.uk; Billy Hayton <Billy@shear-design.com>
Cc: Dameon Kilgour <dameon@shear-design.com>; Tony Spencer <Tony@shear-design.com>
Subject: RE: PDE 4200034146 Junction of Deansgate South M3 4LB (20047) - New Ref. 0237423

Morning Mohammed

The bottle gullies that you've highlighted drain an area of 13m² along the southern margin of the development. The rate of discharge from this area peaks at approximately 0.3 l/s during a short intense rainfall event. This is equivalent to a rainfall rate of 85mm/hr.

We could propose designing the system so that the main hydrobrake restricts discharge to 4.5 l/s, and allow the bottle gullies to discharge after the hydrobrake at 0.3 l/s and for the permeable paving to discharge at a controlled rate of 0.2 l/s, as indicated previously.

Alternatively, we could move the permeable paving control to a location downstream from the bottle gullies so that the discharge backs up into the permeable paving. Controls would be adjusted to ensure 5.0 l/s is not exceeded.

Do you have any preferences on which of the two options we look at?

Kind regards

Tara Urding

Civil Engineer

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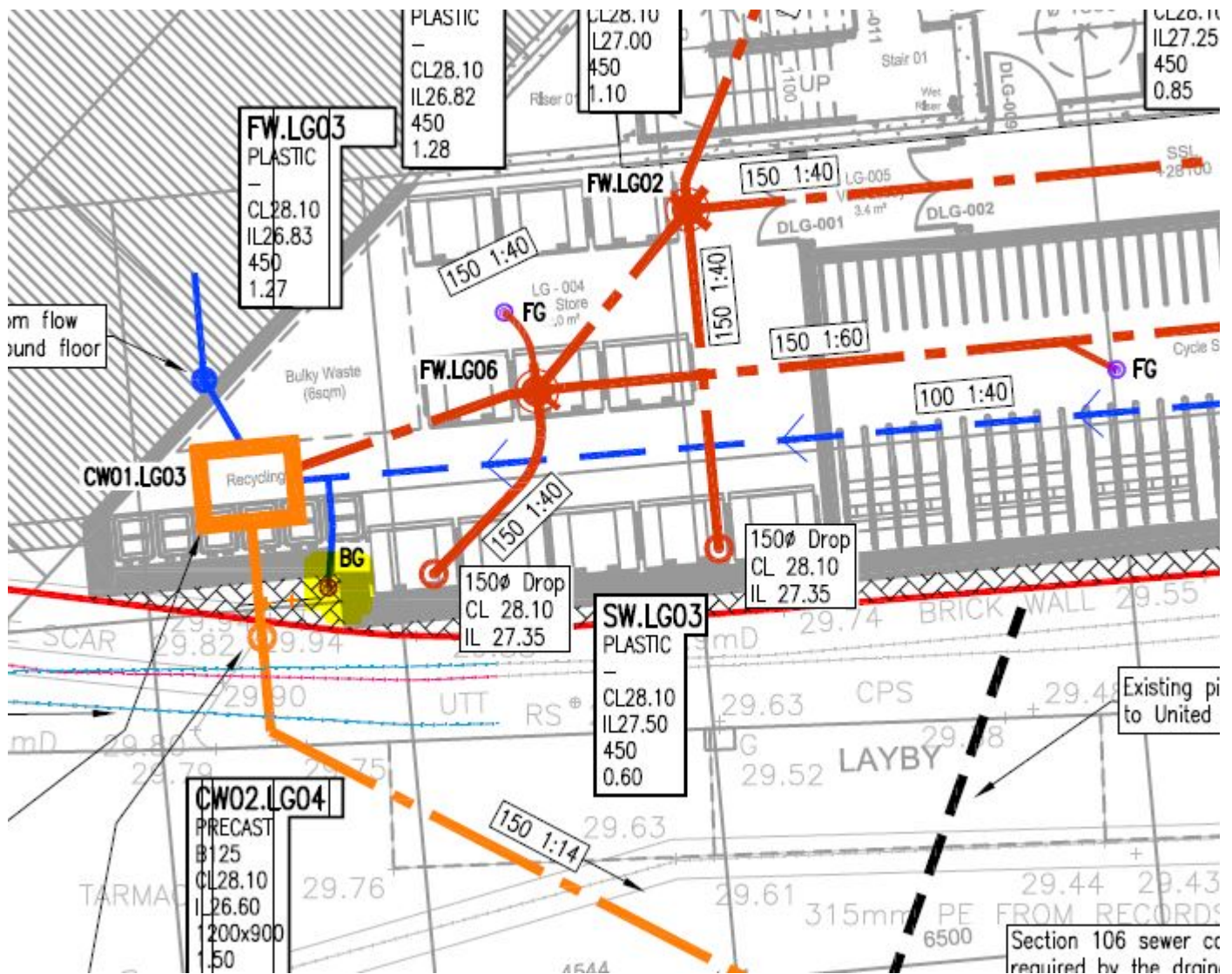


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From: wastewaterdeveloperservices@uuplc.co.uk <wastewaterdeveloperservices@uuplc.co.uk>
Sent: 22 August 2022 17:14
To: Billy Hayton <Billy@shear-design.com>
Cc: Dameon Kilgour <Dameon@shear-design.com>; Tara Urding <Tara@shear-design.com>; Tony Spencer <Tony@shear-design.com>
Subject: RE: PDE 4200034146 Junction of Deansgate South M3 4LB (20047) - New Ref. 0237423

Good afternoon Billy,
I tried to call you this afternoon, but no one answered, so I have sent this email.

The amendment drainage drawing (20047-121, Rev: B) appears not acceptable. This is because the drawing shows there is a surface water sewers (highlighted in yellow) drain to network after the hydro brake manhole. The developer needs to redesign the drainage network to achieve a total of 5 l/s discharged from the site.



Kind regards,



Mohammed Aljafarawi (He/Him)
 Developer Engineer
 Developer Services & Metering
 Customer Services
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----- Original Message -----

From: Billy Hayton [billy@shear-design.com]

Sent: 05/08/2022 11:11

To: wastewaterdeveloperservices@uuplc.co.uk

Cc: dameon@shear-design.com; tara@shear-design.com; tony@shear-design.com

Subject: RE: PDE 4200034146 Junction of Deansgate South M3 4LB (20047) - New Ref. 0237423

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Hi Mohammed,

Thanks for your response on this, much appreciated.

Tara is currently on leave so I am responding in his absence to hopefully update you on a few things.

I have included our latest drainage plans which include the following;

1. Flow Control chamber serving the below ground floor attenuation tank
2. Rearranged lower ground floor drainage to reduce congestion of entry into boundary chamber within our site.
3. Provision of demarcation chamber within 1m of our site boundary in the footpath.

I note your comments regarding the 104 and 106 and are aware of the requirements to design to the latest Design & Construction Guidance. We shall review your notes on the 104/106 in detail and return further queries if required.

Thanks again,

Kind regards,

Billy Hayton CEng MIStructE

Principal Engineer

Shear Design Ltd

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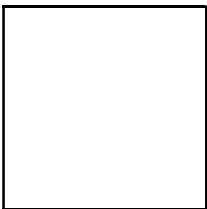
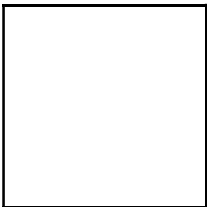
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