

From: [Kelman, Gordon - E&E](#)
To: [John Hayden](#)
Cc: [Guled Warsama](#)
Subject: RE: JDE site , Banbury, Proposed culvert
Date: 18 July 2017 11:52:07
Attachments: [image001.gif](#)
[image002.gif](#)
[image003.png](#)
[image004.jpg](#)

John,

In principal this looks ok to me from a Land Drainage consenting point of view. Subject to culvert design and construction / installation method statements.

In reference to the 4 pipes, yes, I agree that additional capacity would be preferred from our point of view as the existing open watercourse being culverted would provide that extra volume capacity and have no detrimental effect up stream.

Regarding the Ordinary water course consenting, we now charge a £50 fee for each section up to 100metres of watercourse being worked on and each structure being constructed or altered (ie headwalls, manholes, catchpits etc). Just so you are aware. It also looks like there will be demolition works directly over an existing culverted watercourse that will need consenting too as we would consider this temporary works as the existing culvert will need protection during demolition. Once we have a design drawing we can let you know what items needs consenting.

Kind regards,

Gordon Kelman
Senior Engineer (Drainage)

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From: John Hayden [mailto:JohnHayden@hydrock.com]
Sent: 17 July 2017 16:09
To: Kelman, Gordon - E&E
Cc: Guled Warsama
Subject: JDE site , Banbury, Proposed culvert

Gordon,

Please see the attached sketch and survey of the existing marked up with proposals.

We have previously been in touch with yourself to gain consent for the section of Birds Brook to be culverted that goes through the Waitrose Car park.

I am not sure if you are aware but the 'link building ' which joins the two sides of the JDE factory is being demolished (Area A). The space which will then result will then form part of a throughway/ parking area for HGV's. As shown on the plan there is a section of open watercourse upstream which we propose to culvert . A HGV parking area will then be formed above the culvert (Area B).

We would propose to continue to drain Area A to the adjacent open watercourse as it (the roof) drains currently.

As a result of culverting this section of Birds Brook the impermeable area shall increase by approximately 1100m². We would propose to drain this area (Area B) to the culvert at a restricted rate - greenfield run off for this small area shall be less than 5l/s. We would therefore propose to drain it at 5l/s which is generally recognised as the minimum rate.

It is proposed that the surface water from the parking/ throughway areas shall drain to the culvert via interceptors.

We are proposing to base the culvert design on the capacity of the two incoming 900 dia pipes (3.4m³/s) . We recognise that the 4 downstream pipes restrict the outgoing flow (capacity 1.8m³/s). Additional capacity may therefore be required within the proposed culvert to allow the water to back up in this area as I suspect it does at the moment.

I would be grateful if you would be available to give any feedback on our proposals. We shall then continue to finalise the design before submitting it to yourself for consent,

Regards,

John Hayden

Principal Engineer – Civil Engineering

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