



[Signature] Yoti eSigned 

- fully designed

Zone A1

EXISTING WATERCOURSE  
DIVERTED INTO GREEN  
CORRIDOR

A handwritten signature in blue ink, appearing to read "Michael J. Sull", is written over a green line. The signature is fluid and cursive, with a distinct loop on the 'i' and 'u'.

DE  
G



0500

REPRODUCED FROM ORDNANCE SURVEY MAPS WITH PERMISSION  
FROM THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. CROWN  
COPYRIGHT RESERVED. LICENCE NO. 100023422 2007.

KEY PLAN

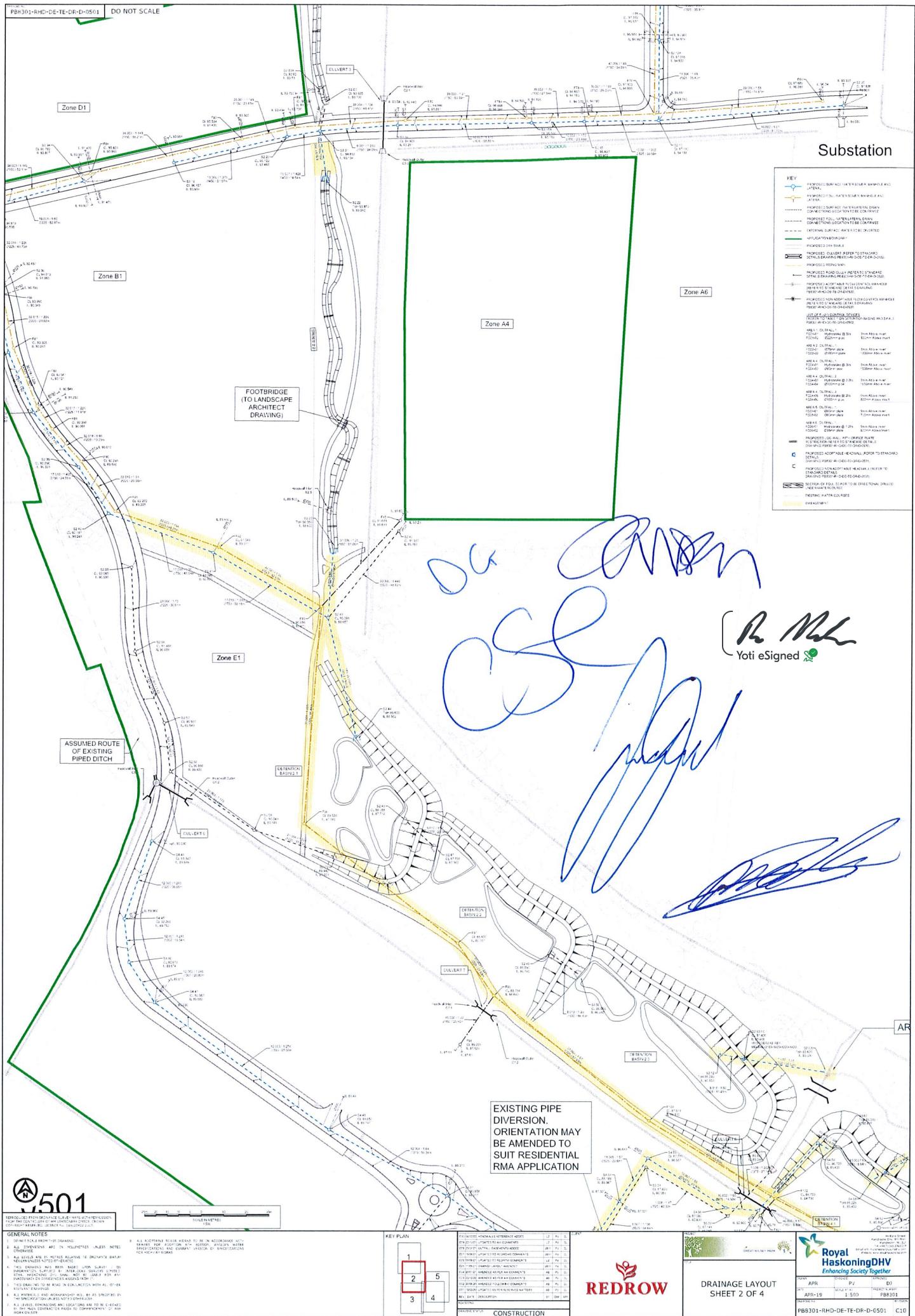
REV. DATE	DESCRIPTION
1/16/2021	INITIAL RELEASE
1/16/2021	UPDATED TO 43 COMMENTS
1/16/2021	REVISED TABLE ADDS IN ZONE A
1/21/2021	UPDATED TO 43 COMMENTS
1/21/2021	INITIAL ELEMENTS ADDED
1/21/2021	UPDATED TO 43 COMMENTS
1/21/2021	GRANULE LAT/LONG ADDED
1/23/2021	ADDED TO SECURITY AWARE
1/23/2021	UPDATED TO 43 COMMENTS
1/23/2021	ADDED TO SECURITY AWARE

DN

REDROW

DRAINAGE LAYOUT  
SHEET 1 OF 4





PB8301-RHD-DE-TE-DR-D-0502

DO NOT SCALE



[Signature] Yoti eSigned 

EXISTING PIPE  
DIVERSION.  
ORIENTATION MAY  
BE AMENDED TO  
SUIT RESIDENTIAL  
RMA APPLICATION

Zone A

ok

Zone A8



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INSET 1

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REPRODUCED FROM ORIGINALLY DRAWN WITH PERMISSION  
FROM THE CONTROLLER OF THE CIVIL ENGINEERING  
DEPARTMENT, KARACHI. DESIGN NO. 199/23422 2/67

**GENERAL NOTES**

1. DO NOT SCALE THIS DRAWING.

2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

3. ALL LEVELS ARE IN METRES RELATIVE TO ORIGINATE DATUM.

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FOR HIGHWAYS WORKS.

**GENERAL NOTES**

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FOR HIGHWAY WORKS.

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01/05

KEY PLAN

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032 29/5/02 - STORAGE TANK ADDED TO EW NETWORK  
031 24/5/02 - HORNADY REFERENCE NUMBER  
032 25/5/02 - HORNADY BULLETS AND COMMENTS

C19 20180515 UPDATED 20 KM DOCUMENTS  
C18 20180515 ENTRAL 3 OUTALL 2 (8.8M) LFL FILE  
C17 20180515 UPDATED 30 REACH COMMENTS  
C16 20180515 OUTALL ELEMENTS REFILE  
C15 20180515 OUTALL ELEMENTS REFILE



REDROW

## DRAINAGE LAYOUT



**HaskoningDHV**  
Enhancing Society Together

APR-19 1:500 PB8301

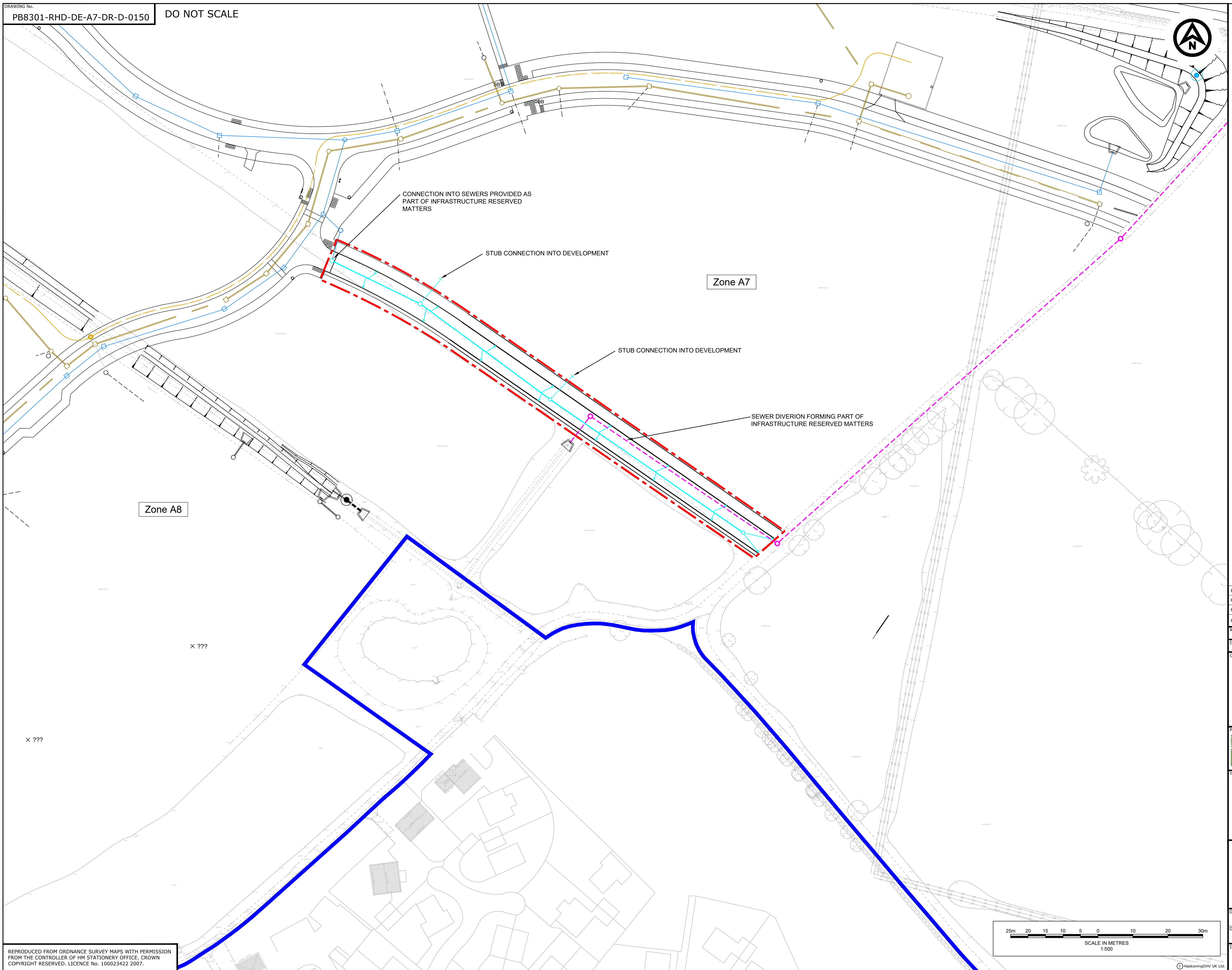
PB8301-RHD-DE-TE-DR-D-0502 C

5501

Seal number 5501

**Appendix E**

Redrow Drainage Drawings



## GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN UNLESS NOTED OTHERWISE.
- THIS DRAWING HAS BEEN BASED UPON SURVEY / OS INFORMATION SUPPLIED BY OTHERS, ROYAL HASKONING DHV SHALL NOT BE LIABLE FOR ANY INACCURACY OR DEFICIENCIES ARISING FROM IT.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
- ALL MATERIALS AND WORKMANSHIP WILL BE AS SPECIFIED IN THE SPECIFICATION UNLESS NOTED OTHERWISE.
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- ALL ADOPTABLE SEWER WORKS TO BE IN ACCORDANCE WITH SEWERS FOR ADOPTION 6th EDITION, ANGLIAN WATER'S SPECIFICATION AND THE CURRENT VERSION OF THE SPECIFICATION FOR HIGHWAY WORKS.

## KEY:

- OUTLINE APPLICATION BOUNDARY
- A7 ACCESS ROAD RMA APPLICATION BOUNDARY
- PROPOSED SURFACE WATER SEWER
- PROPOSED ROAD GULLY CONNECTION
- PROPOSED STUB INTO DEVELOPMENT
- PROPOSED SURFACE WATER MANHOLE
- PROPOSED ROAD GULLY
- SURFACE WATER SEWERS FORMING PART OF INFRASTRUCTURE RESERVED MATTERS
- FOUL SEWERS FORMING PART OF INFRASTRUCTURE RESERVED MATTERS
- SEWER DIVERSION FORMING PART OF INFRASTRUCTURE RESERVED MATTERS

P03	17/12/24	AMENDED TO PRE APP COMMENTS	SS	LZ	DJ
P02	11/12/24	CYCLEWAY AND TURNING HEAD AMENDED	SS	LZ	DJ
P01	29/11/24	FIRST ISSUE	JM	JM	DJ
REV DATE	DESCRIPTION	BY	CHK	APP	
REVISIONS					

DRAWING STATUS PRELIMINARY

CLIENT




PROJECT  
TITLE  
RESERVED MATTERS  
A7

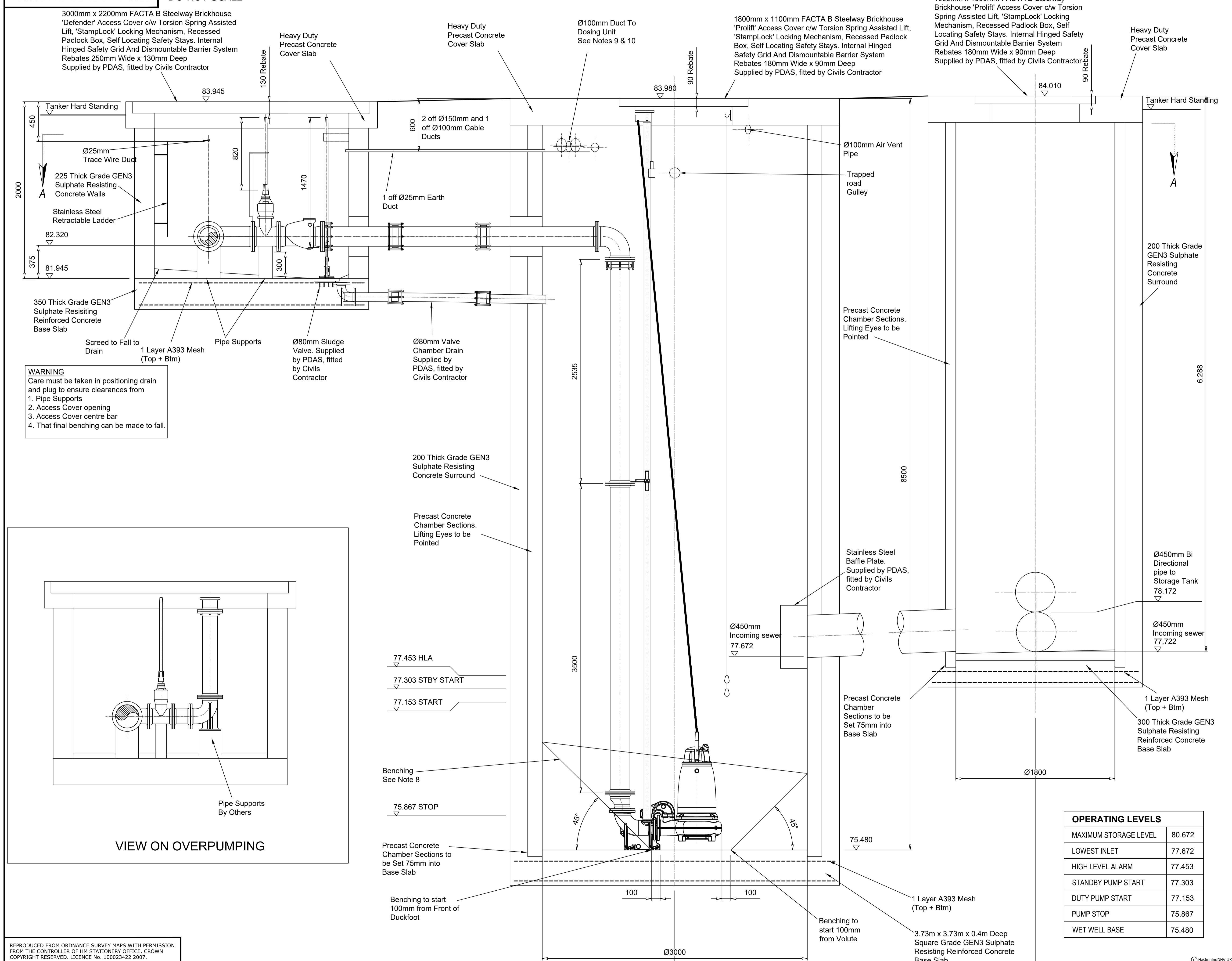
## PROPOSED DRAINAGE



DRAWN JM CHECKED JM APPROVED DJ  
DATE NOV '24 SCALE AT A1 1:500 PROJECT NUMBER PB8301  
DRAWING No. PB8301-RHD-DE-A7-DR-D-0150 REVISION P03  
©HaskoningDHV UK Ltd







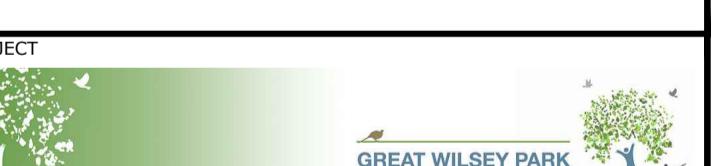
**GENERAL NOTES**

- DO NOT SCALE FROM THIS DRAWING.
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- ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN UNLESS NOTED OTHERWISE.
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C02	14/04/21	AMENDED FOLLOWING AW COMMENTS	JBW	PV	DJ
C01	12/11/20	FIRST ISSUE	AB	PV	DJ
REV DATE	DESCRIPTION	BY	CHK	APP	
REVISIONS					

DRAWING STATUS CONSTRUCTION

CLIENT

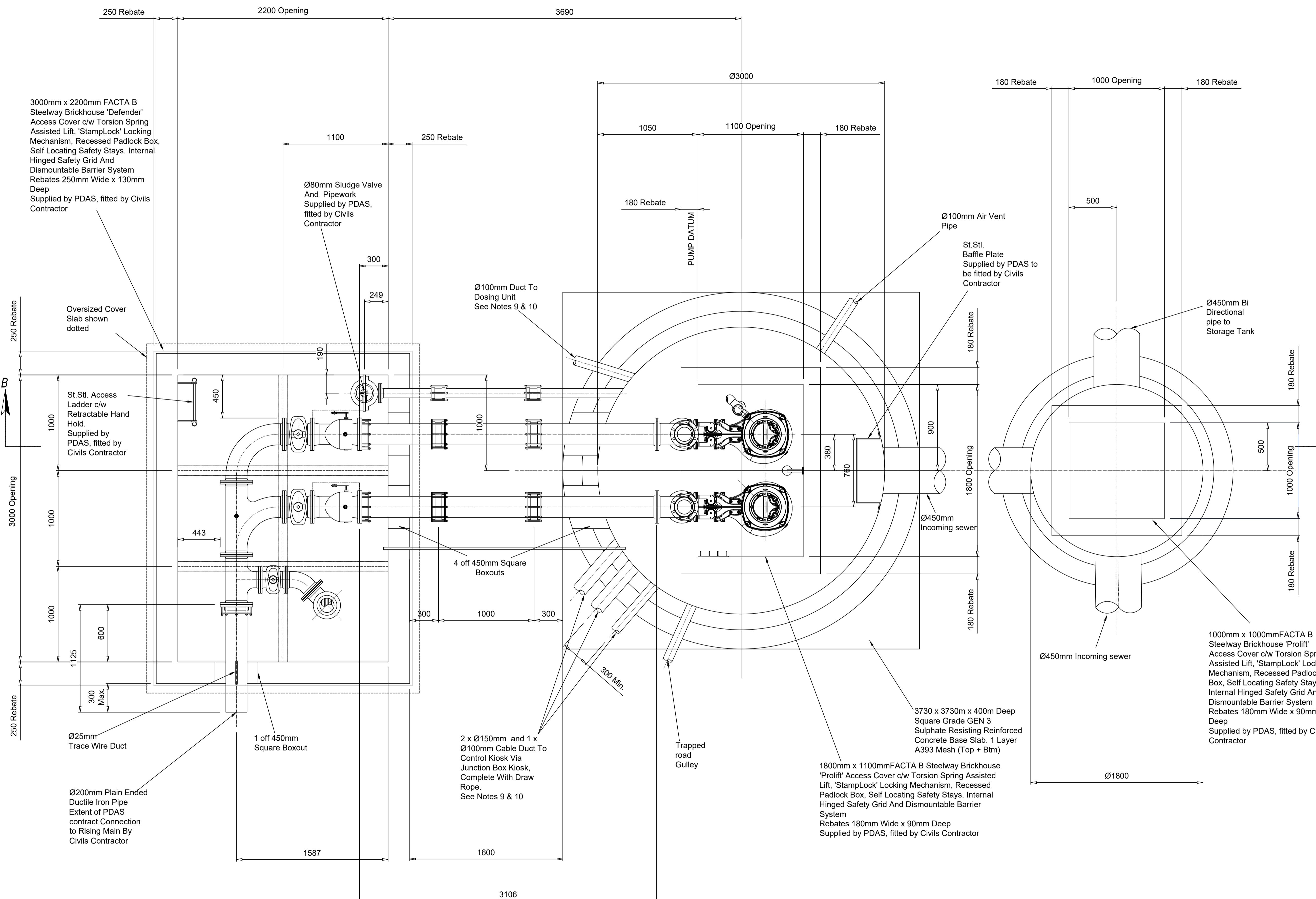


**FOUL WATER PUMPING  
STATION.  
SECTION LAYOUT**

Portland Street,  
Manchester One, 9th Floor  
Manchester, M1 3LF  
Tel 0161 2361018  
Email info.manchester@rh-dhv.com  
Website www.royalhaskoning.com

**Royal HaskoningDHV**  
Enhancing Society Together

DRAWN AB	CHECKED PV	APPROVED DJ
DATE OCT-20	SCALE AT 1: 1:50	PROJECT NUMBER PB8301
DRAWING NO. PB8301-RHD-DE-TE-DR-D-0521		REVISION C02



VIEW ON SECTION A - A

GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN UNLESS NOTED OTHERWISE.
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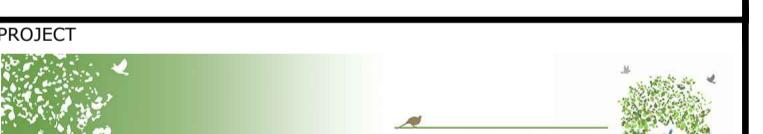
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## REVISIONS

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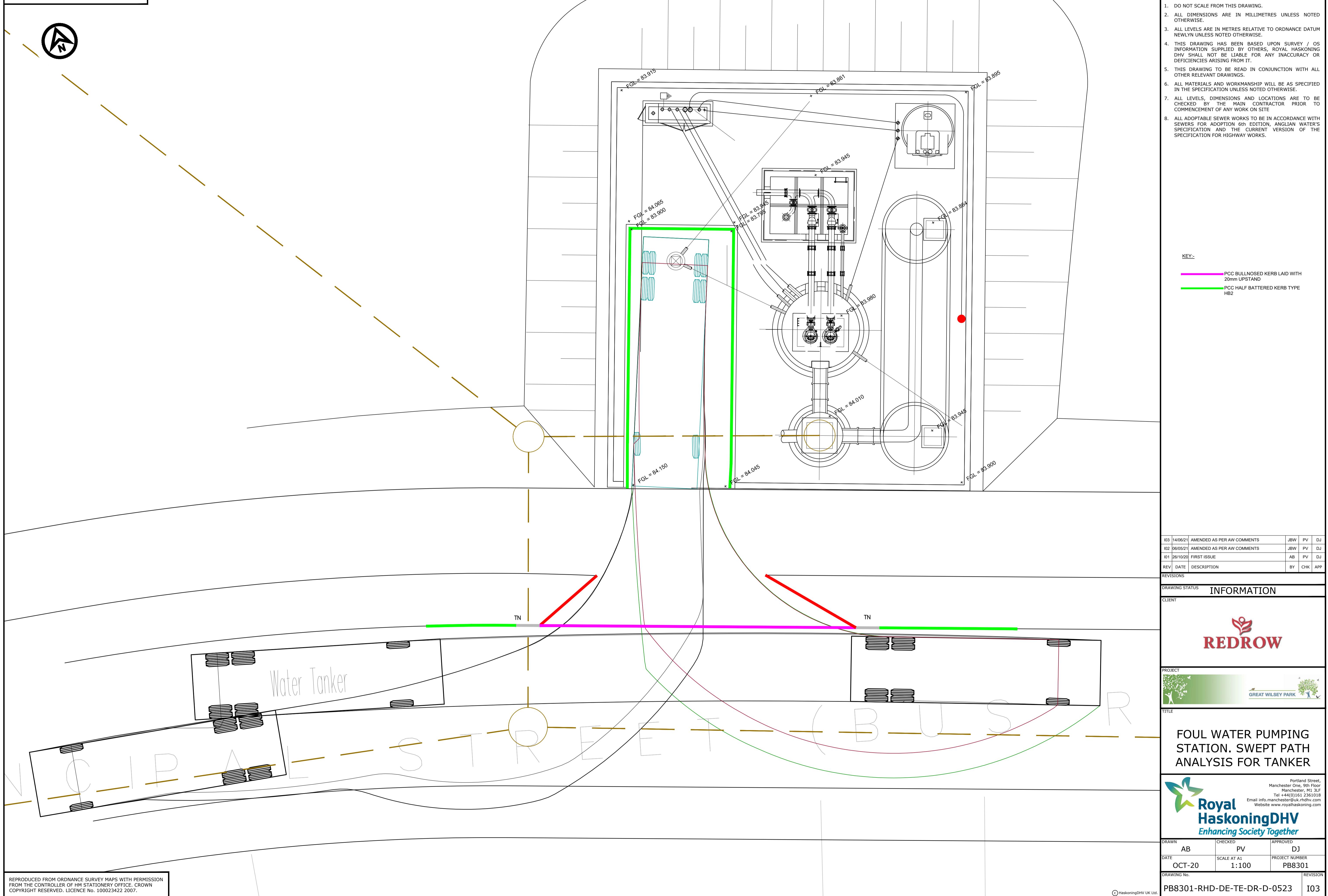
## CLIENT

  
REDROW
FOUL WATER PUMPING  
STATION.  
PLAN LAYOUT

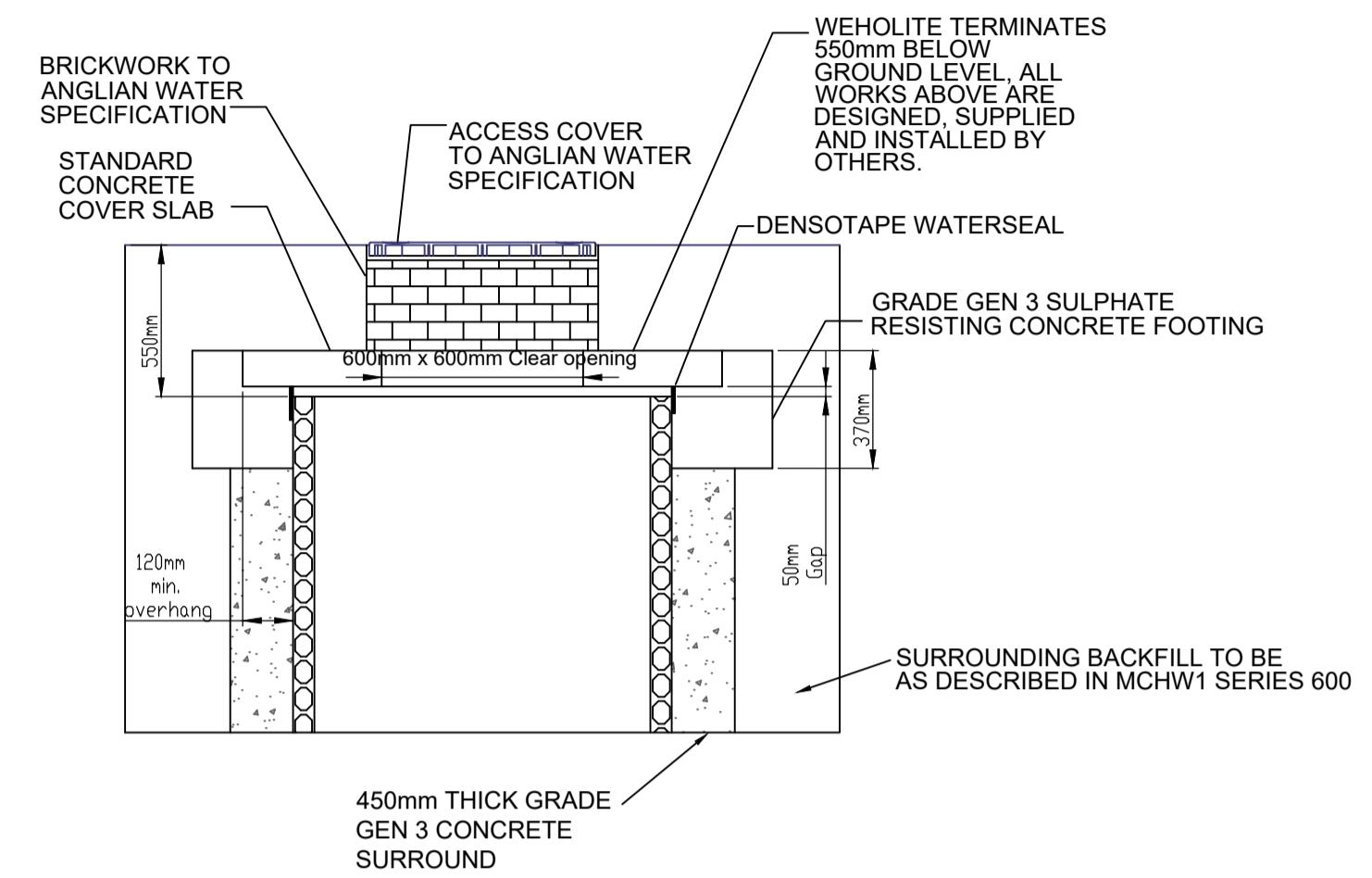
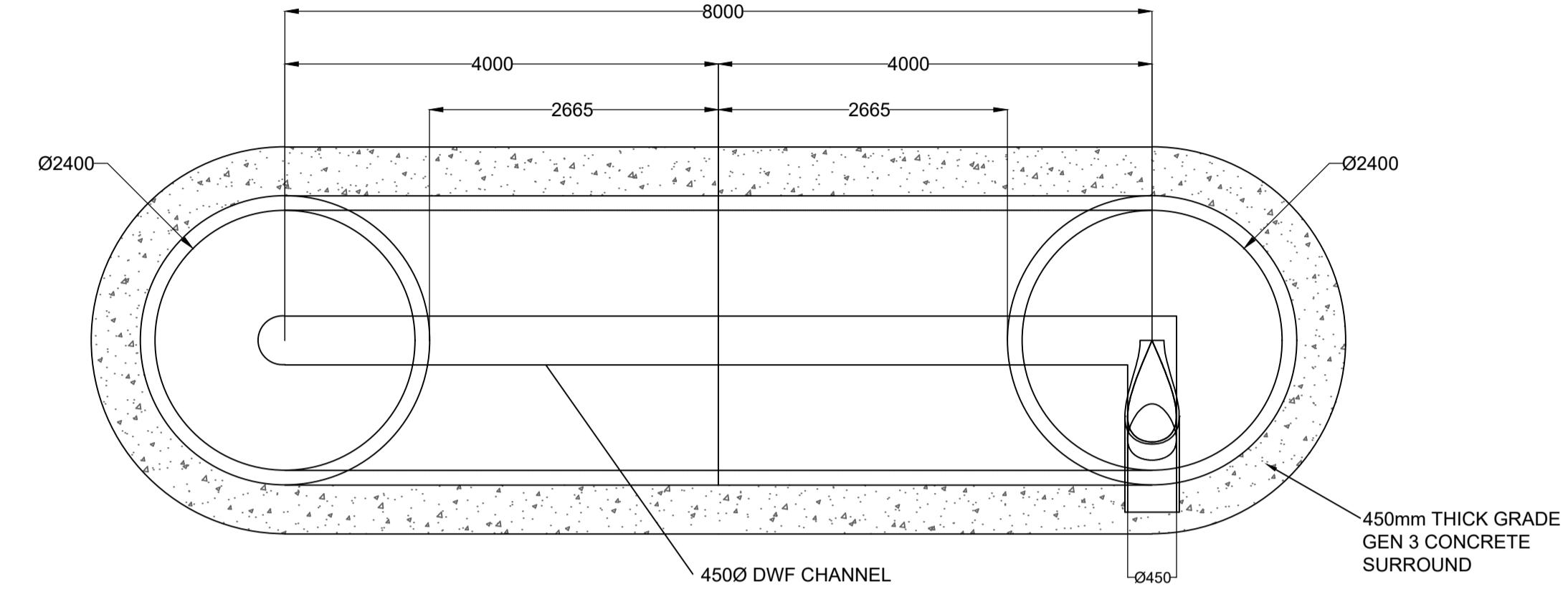
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DATE	OCT-20	SCALE AT A1	1:50	PROJECT NUMBER	PB8301

DRAWING NO. PB8301-RHD-DE-TE-DR-D-0522

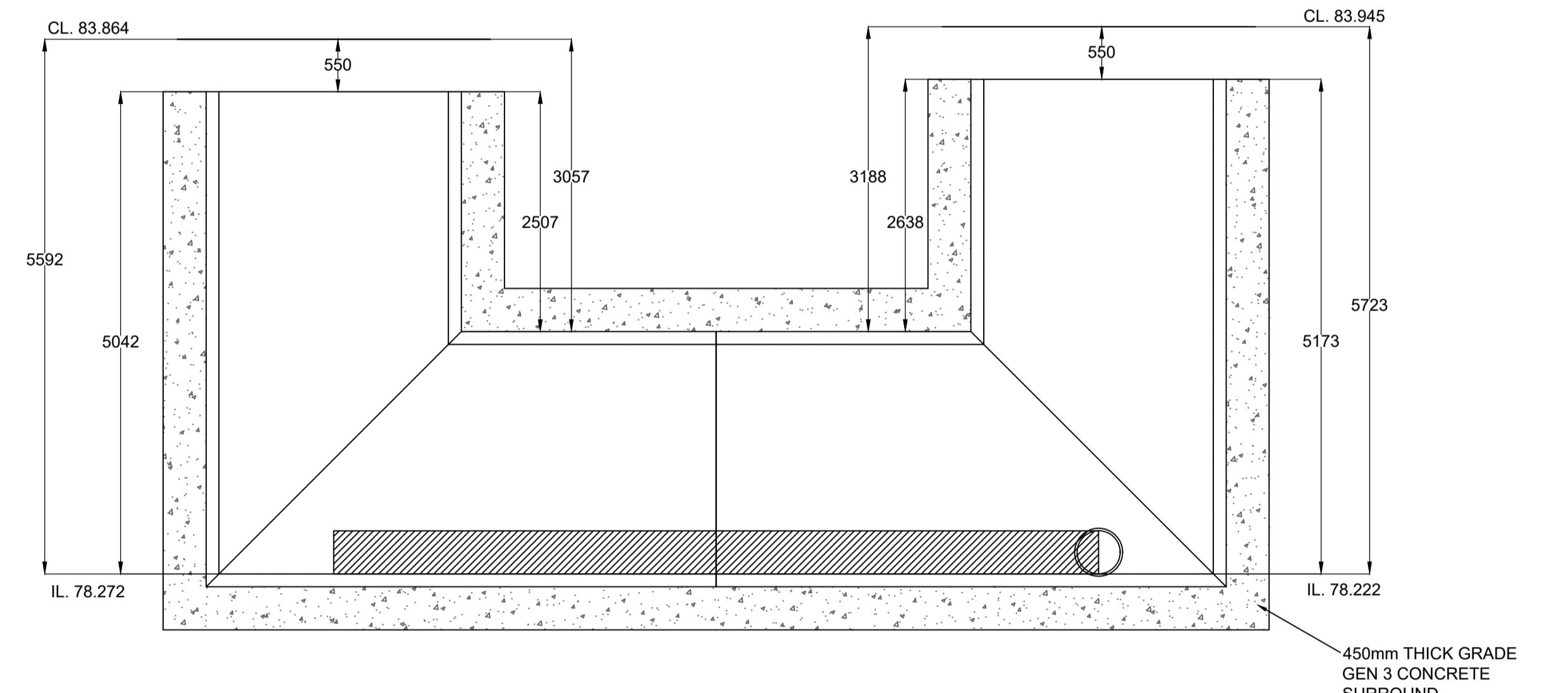
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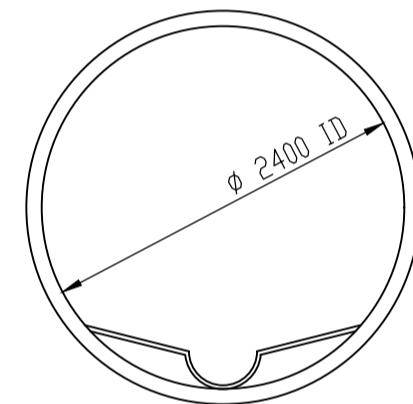
- DO NOT SCALE FROM THIS DRAWING.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
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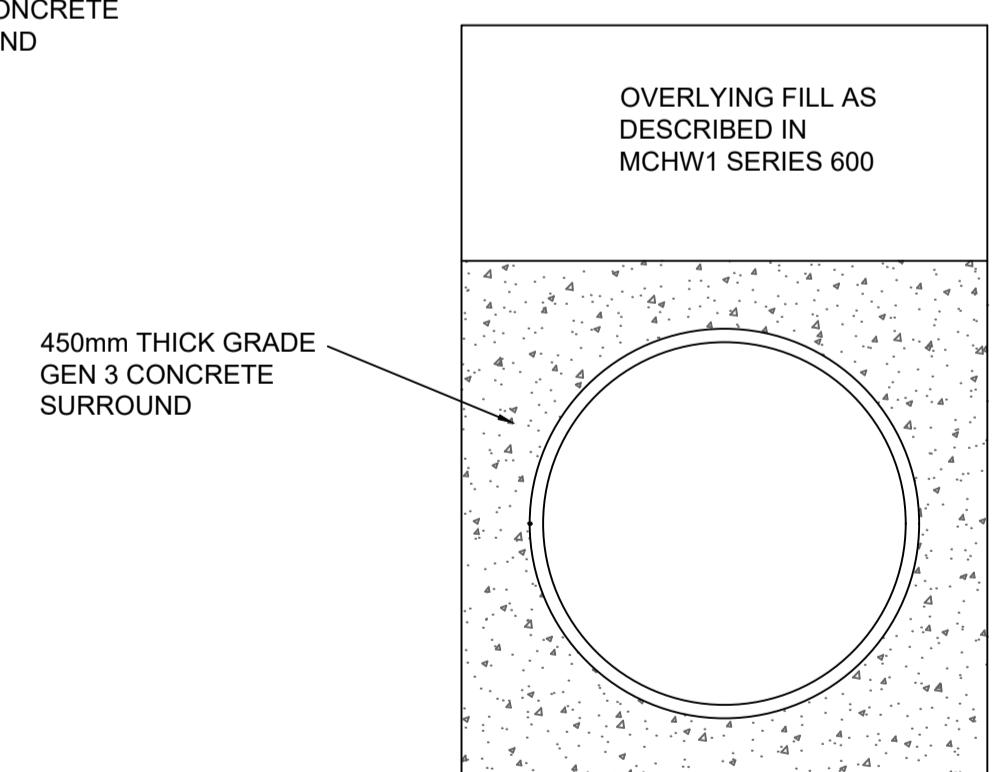
Manhole Detail



SECTION THROUGH TANK

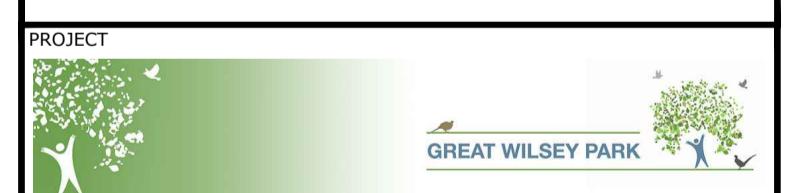


450mm Ø DRY WEATHER CHANNEL



BEDDING AND BACKFILL DETAILS

C01	16/11/20	FIRST ISSUE	AB	PV	DJ
REV	DATE	DESCRIPTION	BY	CHK	APP
REVISIONS					
DRAWING STATUS					
CONSTRUCTION					
CLIENT					



FOUL WATER PUMPING  
STATION.  
WEHOLITE TANK DETAILS



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PB8301-RHD-DE-TE-DR-D-0524					C01

**Appendix F**

LLFA Correspondence

## Iris Kalaci

---

**From:** Miles Orlopp <Miles.Orlopp@suffolk.gov.uk>  
**Sent:** 12 November 2025 14:10  
**To:** Scott Butcher  
**Subject:** RE: EA232 - Haverhill - Outfalls

Hi Scott,

Happy with this, can you give me a call back regarding the swales question from the email dated 24<sup>th</sup> of October please?

Thanks,

**Miles Orlopp BSc (Hons)**  
Flood and Water Engineer  
Growth, Highways and Infrastructure  
Suffolk County Council  
Endeavour House, 8 Russell Road, Ipswich, IP1 2BX

Email: [miles.orlopp@suffolk.gov.uk](mailto:miles.orlopp@suffolk.gov.uk)

Not at work Fridays due to University

The updated Suffolk SuDS Guidance (Appendix A to the Suffolk Flood Risk Management Strategy) is now available on our website at the following link:

<https://www.suffolk.gov.uk/roads-and-transport/flooding-and-drainage/guidance-on-development-and-flood-risk>

---

**From:** Scott Butcher <Scott.Butcher@bloorhomes.com>  
**Sent:** 01 October 2025 14:12  
**To:** Miles Orlopp <Miles.Orlopp@suffolk.gov.uk>  
**Subject:** EA232 - Haverhill - Outfalls

 **EXTERNAL EMAIL: Don't click any links or open attachments unless you trust the sender and know the content is safe. [Read more information](#) for help from Suffolk IT**

Hi Miles,

Thank you for taking my call earlier – apologies have been in meetings since we spoke.

As discussed I have enclosed the FRA where the assessment of the peak water level within the ditch / watercourse was undertaken (Page 31). This has then been used by Ardent to review our proposed outfall level against the peak water level. Where our outfall level is above the peak water level our stance is that the outfall does not need to be modelled as being surcharged.

You will note a slight discrepancy from the “**Scenario B**” drawing attached for Catchment A compared to the below summary (Ardent), as the storm calcs had been run by another consultant – outfall shown as being surcharged.

The below calcs utilise the parameters we agreed:

- Discharge rate based on dev area and loH124 2.84l/s/ha
- 40% CC
- CV = 0.9

- Max water depth = 1.2m

### SW Catchment A

Developable Area = 3.775ha

Qmax = 10.7l/s (2.84l/s/ha x 3.775ha)

Basin A Layout – as shown on Dwg No. **Scenario B EA232-EN-SK301**

Basin A IL = 78.50m

Basin A Depth = 1.50m (Maximum Water Depth 1.20m and 0.30m Freeboard)

Basin A Footprint (excl. Maintenance Strip) = 0.159ha (considered as impermeable area in the drainage calculations – as per the SCC Flood Risk Management Strategy Appendix A) – Size of tank can be reduced if this is omitted from the drainage calculations.

Attenuation Tank Size = 860m<sup>2</sup> x 0.60m height (product Aco Storm Brixx....or another supplier can be used)

Attenuation Tank IL = 79.10m (set 600mm above IL of Basin A)

Outfall IL = 78.328m

Peak Water Level in OWC, 1:100y+cc (Brookbanks FRA) Node HV32 = 77.49m and HV33 = 76.94m. The outfall will be between these two nodes and therefore is modelled as not surcharged.

Halfdrain times for both Basin A and Tank less than 24hrs for 1 in 100y+cc.

### SW Catchment B

Developable Area = 4.008ha

Qmax = 11.4l/s (2.84l/s/ha x 4.008ha)

Basin B Layout – as shown on Dwg No. **Scenario B EA232-EN-SK301**

Basin B IL = 72.30m AOD

Basin B Depth = 1.50m (Maximum Water Depth 1.20m and 0.30m Freeboard)

Basin B Footprint (excl. Maintenance Strip) = 0.253ha (considered as impermeable area in the drainage calculations – as per the SCC Flood Risk Management Strategy Appendix A)

Outfall IL = 71.90m

Peak Water Level in OWC, 1:100y+cc (Brookbanks FRA) Node HV47 = 70.57m, therefore Outfall modelled as not surcharged.

Halfdrain time for Basin B is less than 24hrs for 1 in 100y+cc.

### SW Catchment C

Developable Area = 6.441ha

Qmax = 18.3l/s (2.84l/s/ha x 6.441ha)

Basin C Layout – as shown on Dwg No. **Scenario B EA232-EN-SK301**

Basin C IL = 69.75m

Basin C Depth = 1.50m (Maximum Water Depth 0.90m and 0.60m Freeboard...may slightly change as part of the detailed design)

Basin B Footprint (excl. Maintenance Strip) = 0.44ha (considered as impermeable area in the drainage calculations – as per the SCC Flood Risk Management Strategy Appendix A).

Outfall IL = 69.0m

OWC IL at Outfall = 67.41m, The drainage model in the Brookbanks FRA does not extend this far / does not cover this part of the watercourse. There is scope to raise the outfall.

Half-drain times for both Basin C is less than 24hrs for 1 in 100y+cc.

If you could please review and confirm you are happy with the stance that has been taken by Ardent with the outfalls. From review my stance is that the outfalls do not need to be surcharged.

Regards,

**Scott Butcher**

Senior Engineer

**Bloor Homes Eastern**

Marauder House, Skyline Way, Bury St Edmunds, Suffolk, IP32 7YA

Mob: **07977 097119**  
Tel: **01284 777524**  
Email: [Scott.Butcher@bloorhomes.com](mailto:Scott.Butcher@bloorhomes.com)



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<https://www.suffolk.gov.uk/about/privacy-notice/>

**Appendix G**

Drainage Strategy Drawings

