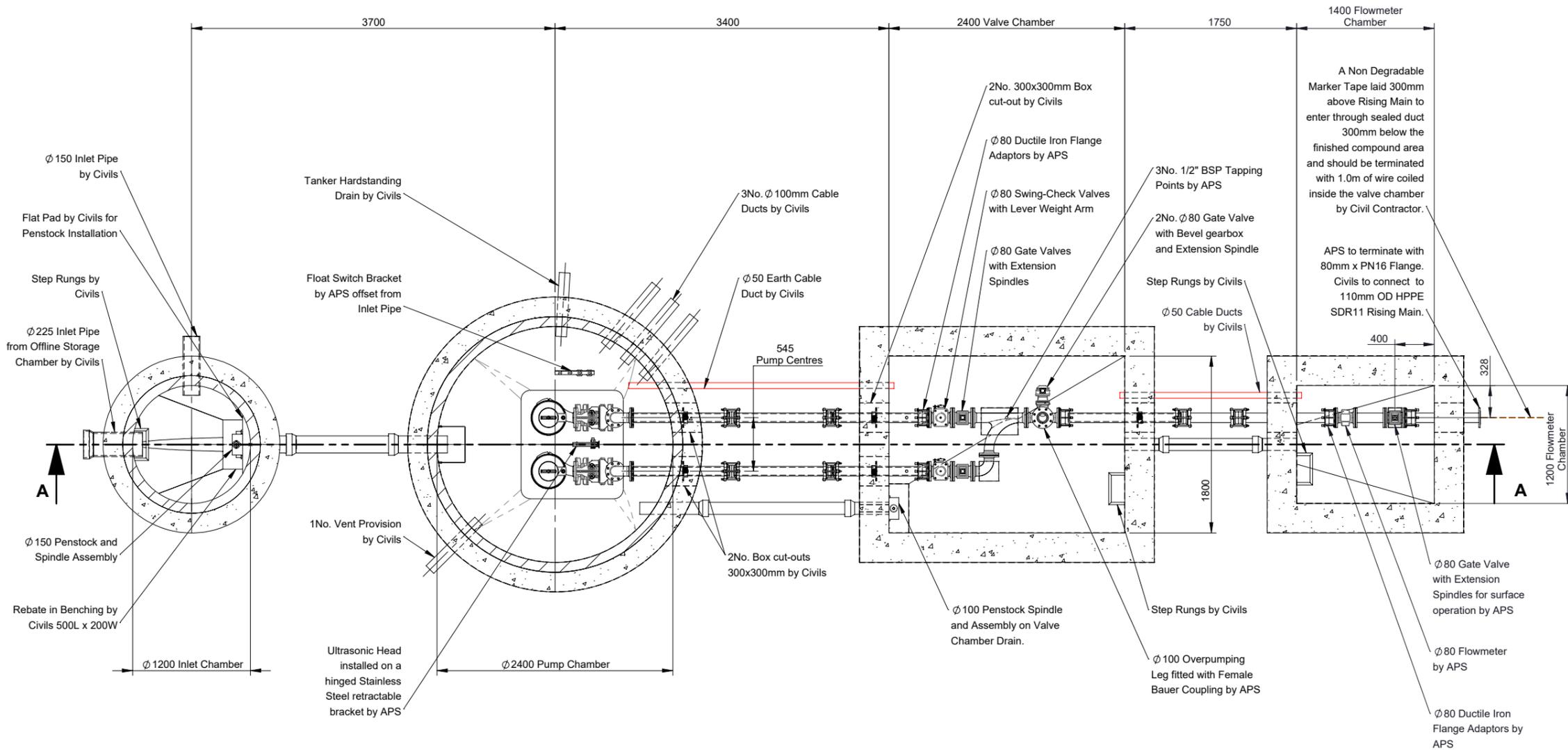


# SECTIONAL PLAN VIEW



Approved by: \_\_\_\_\_  
 Date: \_\_\_\_\_ Signed: \_\_\_\_\_

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**Notes**

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- All Civils works to be completed by Civil contractor.
- Box outs to be filled and made good by civil contractor once pipework has been installed.
- All dimensions in mm unless otherwise stated.
- Benching to be completed after APS installation.
- Cable ducts to be installed by civil contractor complete with draw-cords. Specific sizes shown within drawing detail.
- Cable ducts to be sealed with 'RISE' sealant.
- All structural calculations to be completed by structural engineer. APS have no involvement with the design of wet well cover and base slab.
- Flow calculations based on 110mm OD HPPE SDR11 Rising Main.
- Pumps, floats and electrical equipment are Non-EX rated.
- All fittings are to be stainless steel.
- The pumps are to be labelled 'Pump 1' & 'Pump 2'.
- All Equipment within wet well and valve chamber to be earth bonded by APS in accordance with Design and Construction Guidance and IWNL Specification.
- All fixing bolts into concrete to be stainless steel.

B	Rising Main Length Updated	31/05/2023	GR
A	Drawing for Approval	17/02/2023	GR
Issue:	Description:	Date:	Auth:

Tel: 01743465463  
 Fax: 01743452050  
 Email: sales@allpumpsolutions.com



**all pump solutions**  
 FLUID EXPERTISE

**Title: Foul water Pump Station to Design and Construction Guidance / IWNL Specification - Sectional Plan View**

Contract: **Bradley Villa Farm, Huddersfield**

Contractor: **Redrow Homes**

Consulting Engineer: **Adam Shakespeare**

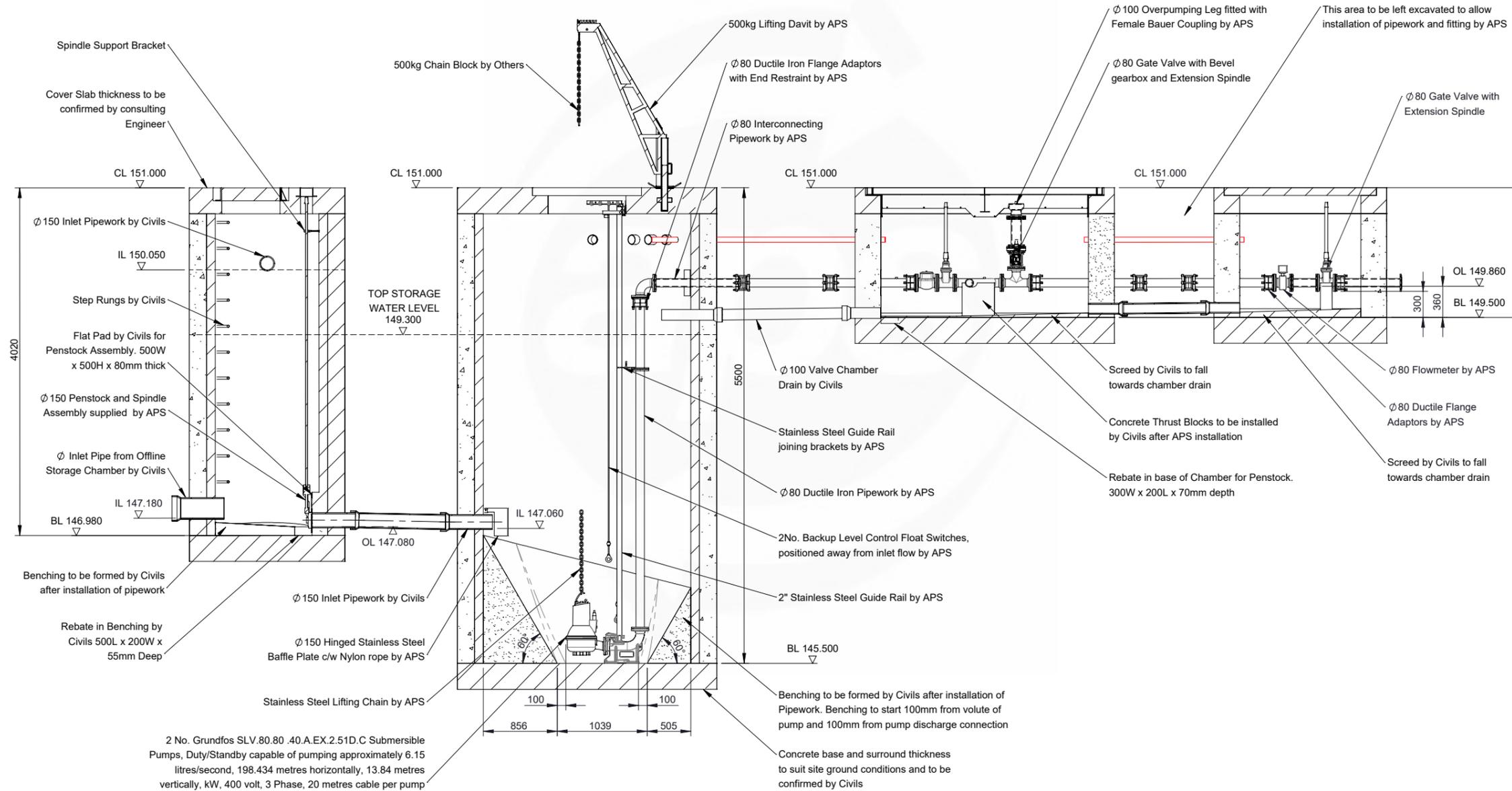
Works Order Number: **WO8963**

Size:	Scale:	Drawn:	Checked:	Approved:
<b>A3</b>	<b>1:50</b>	<b>GR</b>	<b>CW</b>	<b>CW</b>

Drawing Number: **EQ4839-152093-100** Date: **17/02/2023**

Internal Reference: **EQ4839** Issue: **B**

# ELEVATION SECTION VIEW



SECTION A-A

Pump Operating Levels	
Pump Stop	145.850
Duty Pump Start	146.250
Standby Pump Start	146.400
High Level Alarm	146.550
Duty Point	146.050

Approved by:

Date:

Signed:

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Issue:	Description:	Date:	Auth:
B	Rising Main Length Updated	31/05/2023	GR
A	Drawing for Approval	17/02/2023	GR


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 Email: sales@allpumpsolutions.com  
**all pump solutions**  
 FLUID EXPERTISE

Title: **Foul water Pump Station to Design and Construction Guidance / IWNL Specification - Elevation Section View**

Contract: **Bradley Villa Farm, Huddersfield**

Contractor: **Redrow Homes**

Consulting Engineer: **Adam Shakespeare**

Works Order Number: **WO8963**

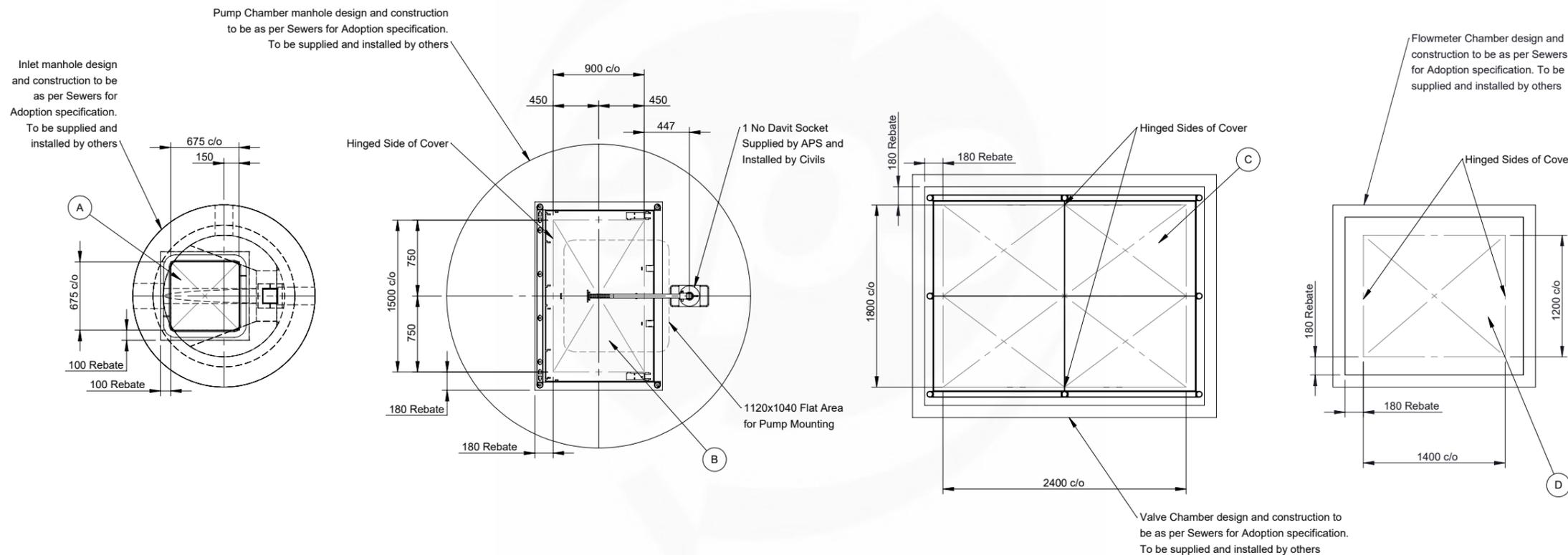
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Drawing Number: **EQ4839-152093-200** Date: **17/02/2023**

Internal Reference: **EQ4839** Issue: **B**

# COVER DETAIL

COVER	CHAMBER	DESCRIPTION
A	INLET CHAMBER	1 No. Inlet Chamber 675mm x 675mm clear opening. Stamp-Lock Prolift Mild steel hinged access cover and frame. Plain seated - no seal, Torsion spring assisted lift, single safety grid, 'Stamp-lock' unique locking mechanism, External demountable safety barriers, Recessed padlock box, Self locating cover safety stays. FACTA B loading class, Galvanized to BS EN 1461.
B	PUMP CHAMBER	1 No. Pump Chamber 1500mm x 900mm clear opening. Stamp-Lock Prolift Mild steel hinged access cover and frame. Plain seated - no seal, Torsion spring assisted lift, "Teagle" (pump through) safety grid, 'Stamp-lock' unique locking mechanism, External demountable safety barriers, Recessed padlock box, Self locating cover safety stays. FACTA B loading class, Galvanized to BS EN 1461.
C	VALVE CHAMBER	1 No. Valve Chamber 2400mm x 1800mm clear opening. Stamp-Lock Prolift Mild steel hinged access cover and frame. Plain seated - no seal, Torsion spring assisted lift, single safety grid, 'Stamp-lock' unique locking mechanism, External demountable safety barriers, Recessed padlock box, Self locating cover safety stays. FACTA B loading class, Galvanized to BS EN 1461.
D	FLOWMETER CHAMBER	1 No. Flowmeter Chamber 1400mm x 1200mm clear opening. Stamp-Lock Prolift Mild steel hinged access cover and frame. Plain seated - no seal, Torsion spring assisted lift, single safety grid, 'Stamp-lock' unique locking mechanism, External demountable safety barriers, Recessed padlock box, Self locating cover safety stays. FACTA B loading class, Galvanized to BS EN 1461.



Approved by:

Date:

Signed:

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### Notes

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- Cable ducts to be sealed with 'RISE' sealant.
- All structural calculations to be completed by structural engineer. APS have no involvement with the design of wet well cover and base slab.
- Flow calculations based on 110mm OD HPPE SDR11 Rising Main.
- Pumps, floats and electrical equipment are Non-EX rated.
- All fittings are to be stainless steel.
- The pumps are to be labelled 'Pump 1' & 'Pump 2'.
- All Equipment within wet well and valve chamber to be earth bonded by APS in accordance with Design and Construction Guidance and IWNL Specification.
- All fixing bolts into concrete to be stainless steel.

B	Rising Main Length Updated	31/05/2023	GR
A	Drawing for Approval	17/02/2023	GR
Issue:	Description:	Date:	Auth:



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Email: sales@allpumpsolutions.com

**all pump solutions**  
FLUID EXPERTISE

Title: **Foul water Pump Station to Design and Construction Guidance / IWNL Specification - Cover Detail**

Contract: **Bradley Villa Farm, Huddersfield**

Contractor: **Redrow Homes**

Consulting Engineer: **Adam Shakespeare**

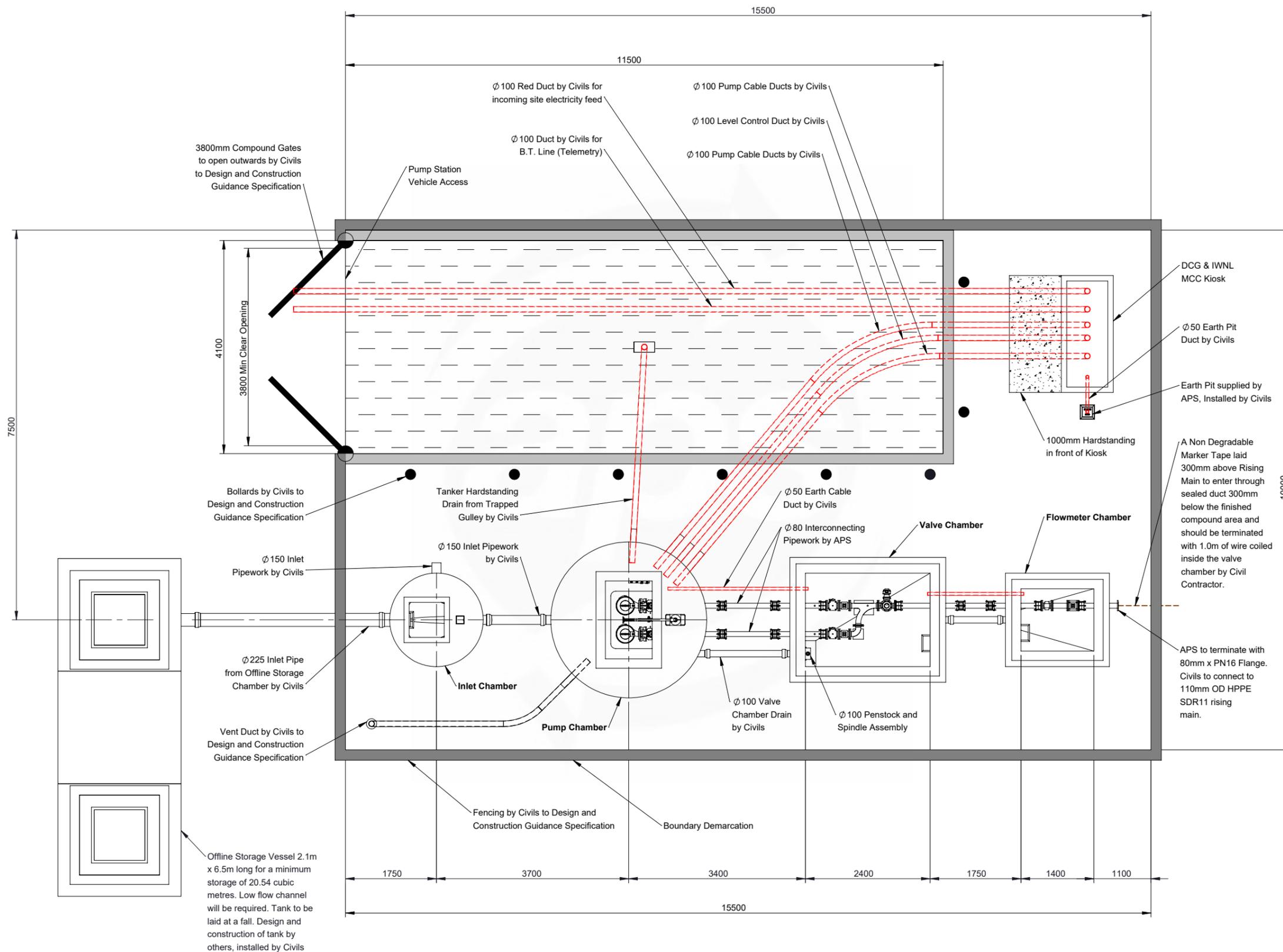
Works Order Number: **WO8963**

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<b>A3</b>	<b>1:50</b>	<b>GR</b>	<b>CW</b>	<b>CW</b>

Drawing Number: **EQ4839-152093-300** Date: **17/02/2023**

Internal Reference: **EQ4839** Issue: **B**

# SITE LAYOUT



Approved by:

Date:

Signed:

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### Notes

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11. All fittings are to be stainless steel.
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13. All Equipment within wet well and valve chamber to be earth bonded by APS in accordance with Design and Construction Guidance and IWNL Specification.
14. All fixing bolts into concrete to be stainless steel.

Issue:	Description:	Date:	Auth:
B	Rising Main Length Updated	31/05/2023	GR
A	Drawing for Approval	17/02/2023	GR

Tel: 01743465463  
 Fax: 01743452050  
 Email: sales@allpumpsolutions.com

**all pump solutions**  
 FLUID EXPERTISE

**Title: Foul water Pump Station to Design and Construction Guidance / IWNL Specification - Site Layout**

**Contract: Bradley Villa Farm, Huddersfield**

**Contractor: Redrow Homes**

**Consulting Engineer: Adam Shakespeare**

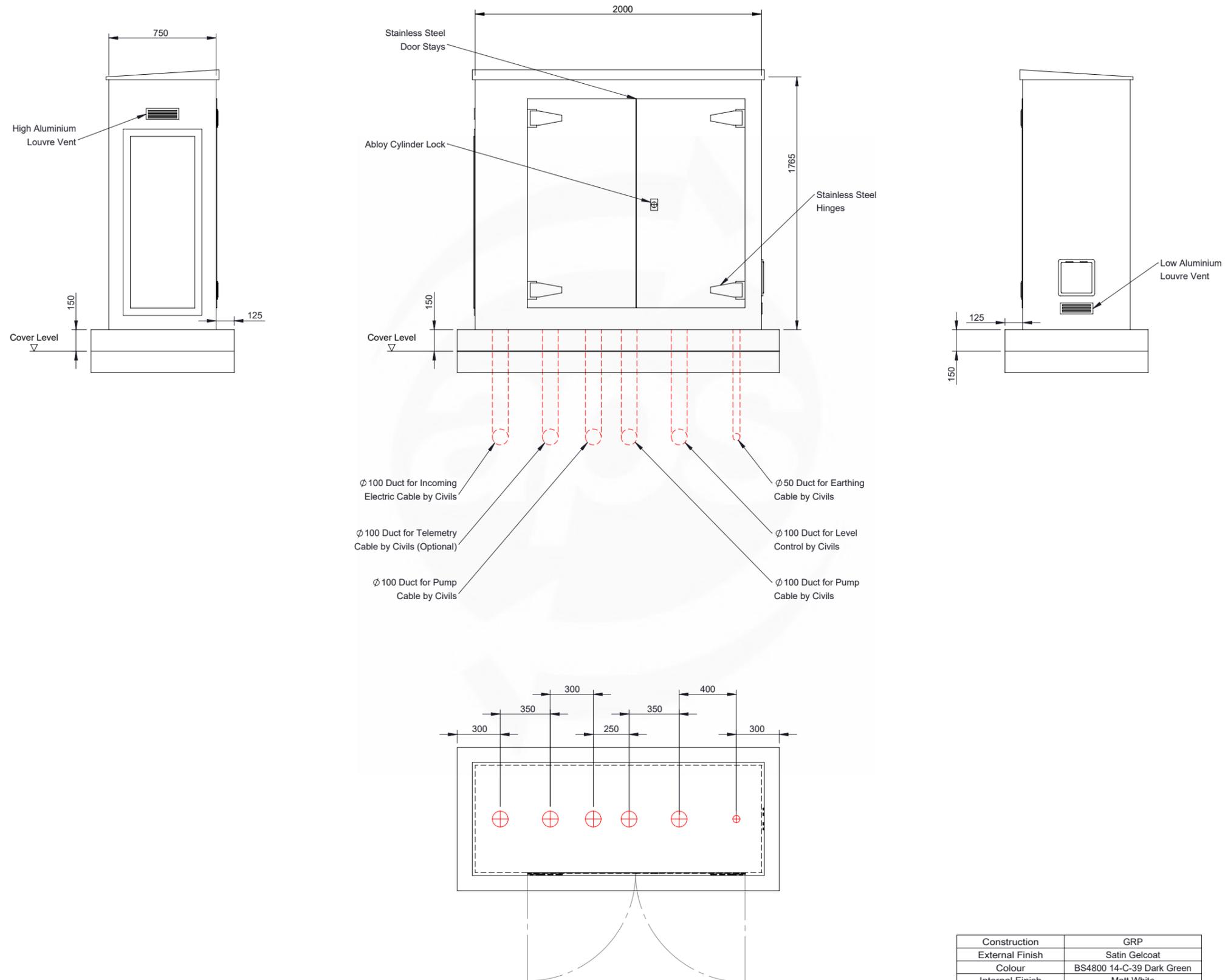
**Works Order Number: WO8963**

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A3	1:80	GR	CW	CW

**Drawing Number: EQ4839-152093-400**      **Date: 17/02/2023**

**Internal Reference: EQ4839**      **Issue: B**

# DCWW KIOSK



Construction	GRP
External Finish	Satin Gelcoat
Colour	BS4800 14-C-39 Dark Green
Internal Finish	Matt White

Approved by:

Date:

Signed:

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### Notes

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B	Rising Main Length Updated	31/05/2023	GR
A	Drawing for Approval	17/02/2023	GR
Issue:	Description:	Date:	Auth:


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 Fax: 01743452050  
 Email: sales@allpumpsolutions.com

**all pump solutions**  
 FLUID EXPERTISE

Title: **Foul water Pump Station to Design and Construction Guidance / IWNL Specification**  
 - Kiosk Detail

Contract: **Bradley Villa Farm, Huddersfield**

Contractor: **Redrow Homes**

Consulting Engineer: **Adam Shakespeare**

Works Order Number: **WO8963**

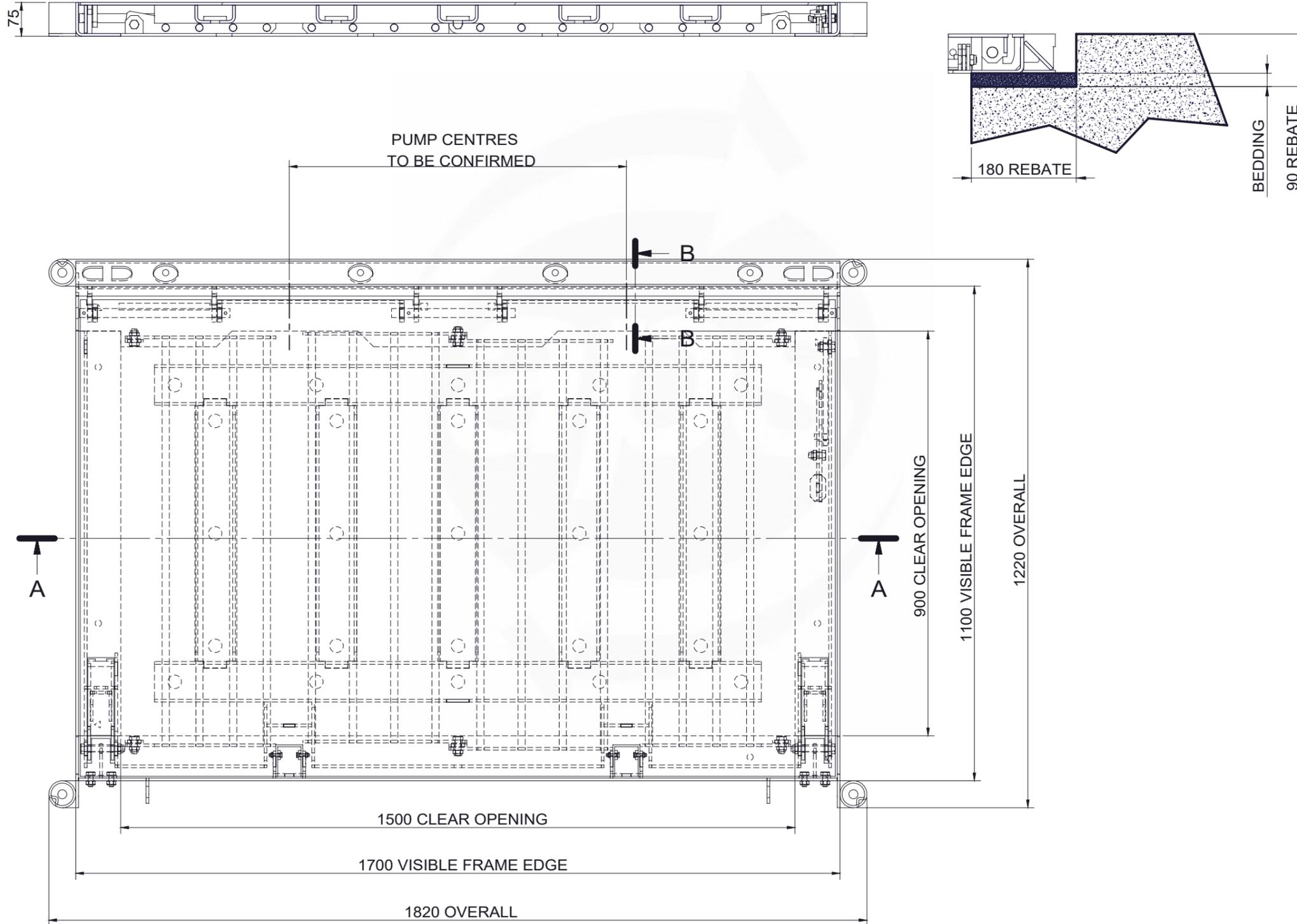
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Drawing Number: **EQ4839-152093-500** Date: **17/02/2023**

Internal Reference: **EQ4839** Issue: **B**



# PUMP CHAMBER ACCESS COVER



Approved by:

Date:

Signed:

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### Notes

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B	Rising Main Length Updated	31/05/2023	GR
A	Drawing for Approval	17/02/2023	GR
Issue:	Description:	Date:	Auth:


 Tel: 01743465463  
 Fax: 01743452050  
 Email: sales@allpumpsolutions.com

**all pump solutions**  
 FLUID EXPERTISE

Title: **Foul water Pump Station to Design and Construction Guidance / IWNL Specification - Pump Chamber Cover**

Contract: **Bradley Villa Farm, Huddersfield**

Contractor: **Redrow Homes**

Consulting Engineer: **Adam Shakespeare**

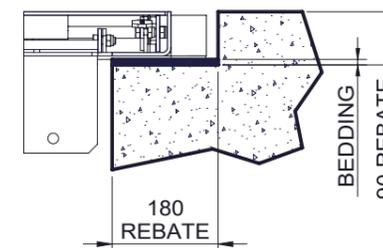
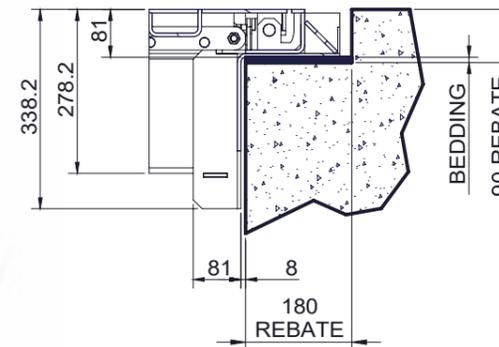
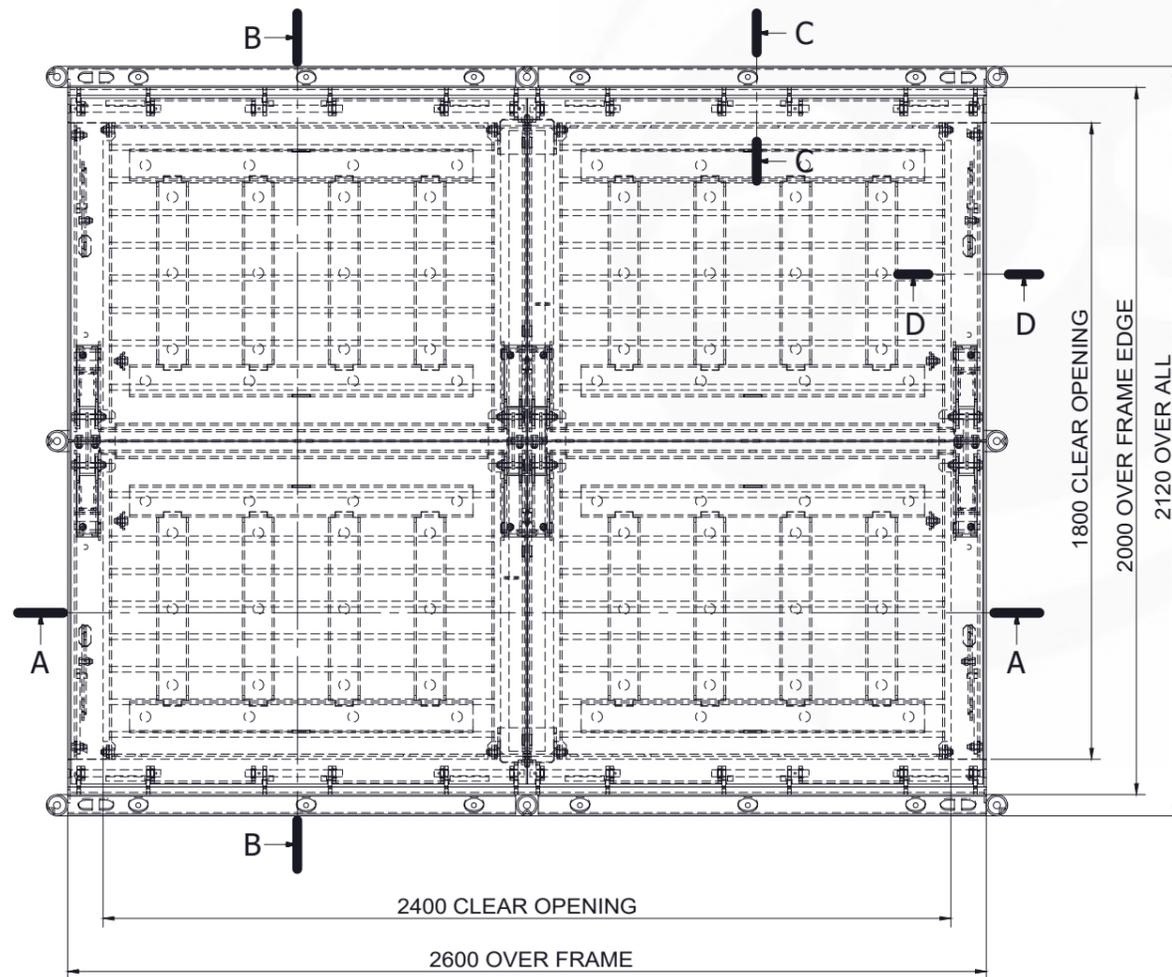
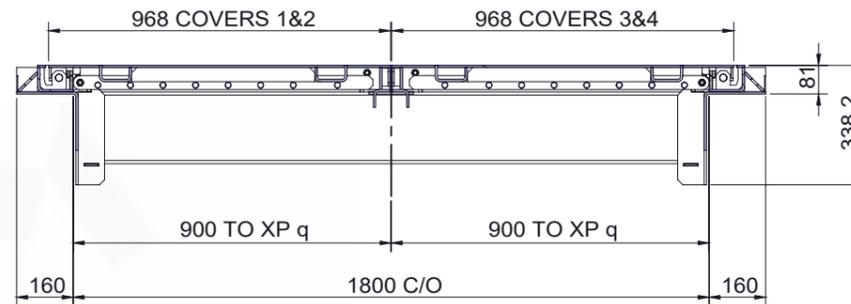
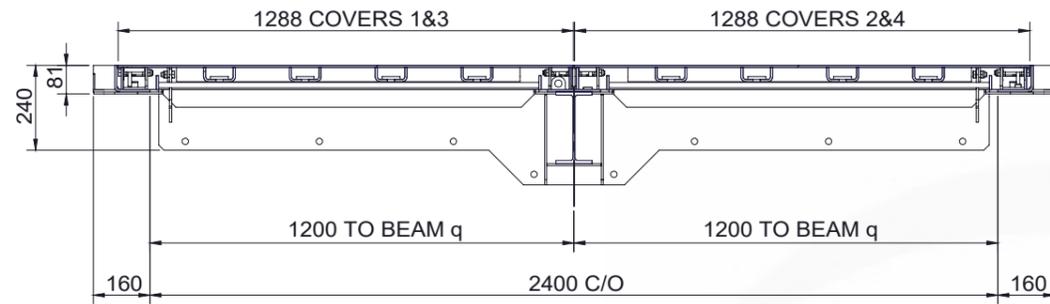
Works Order Number: **WO8963**

Size:	Scale:	Drawn:	Checked:	Approved:
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Drawing Number: **EQ4839-152093-700** Date: **17/02/2023**

Internal Reference: **EQ4839** Issue: **B**

# VALVE CHAMBER ACCESS COVER



Approved by:

Date:

Signed:

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B	Rising Main Length Updated	31/05/2023	GR
A	Drawing for Approval	17/02/2023	GR
Issue:	Description:	Date:	Auth:


 Tel: 01743465463  
 Fax: 01743452050  
 Email: sales@allpumpsolutions.com

**all pump solutions**  
 FLUID EXPERTISE

Title: **Foul water Pump Station to Design and Construction Guidance / IWNL Specification**  
 - Valve Chamber Cover

Contract: **Bradley Villa Farm, Huddersfield**

Contractor: **Redrow Homes**

Consulting Engineer: **Adam Shakespeare**

Works Order Number: **WO8963**

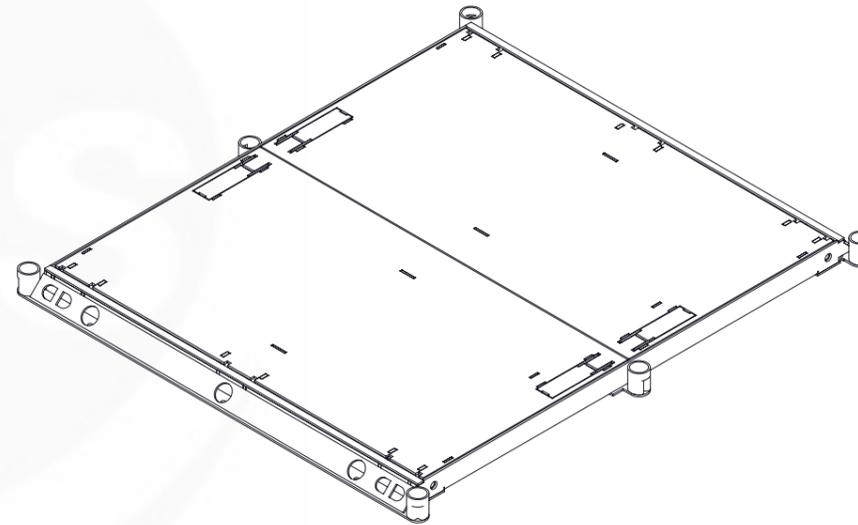
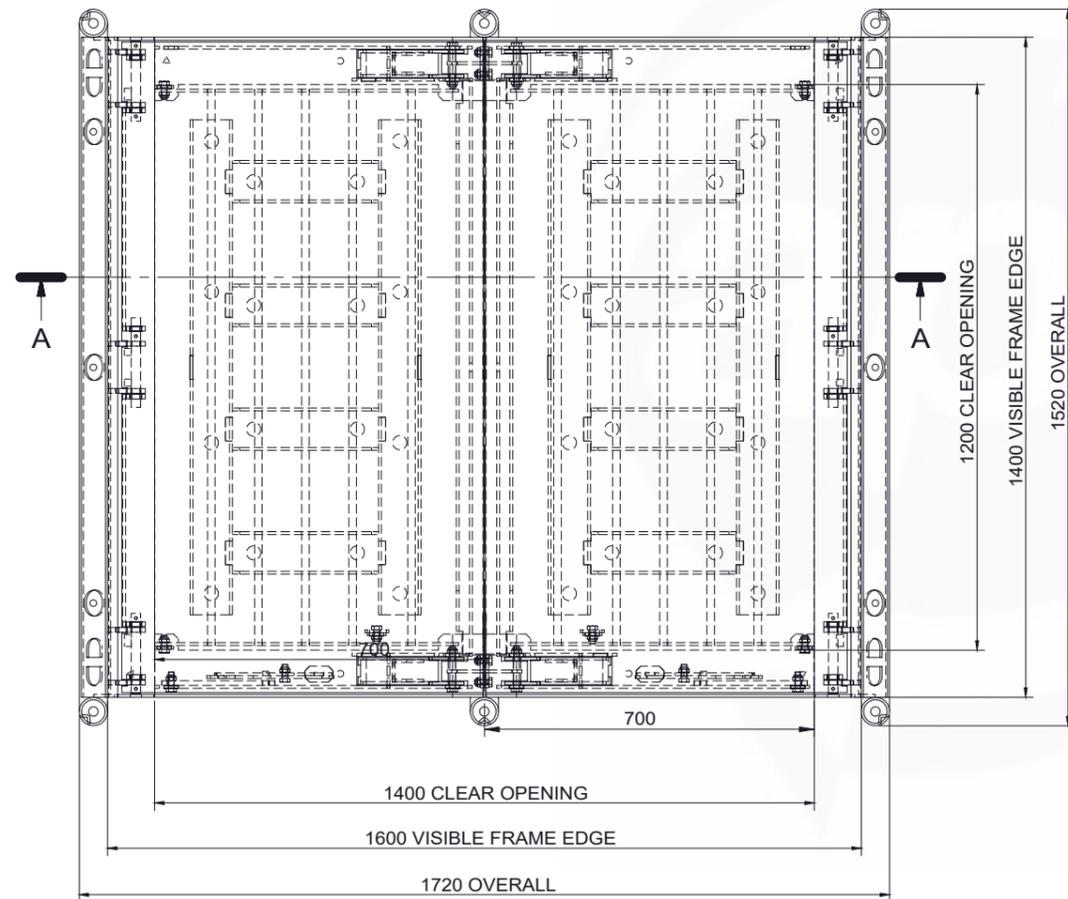
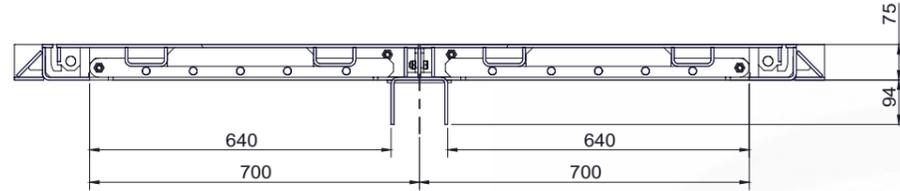
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Drawing Number: **EQ4839-152093-800**      Date: **17/02/2023**

Internal Reference: **EQ4839**      Issue: **B**

# FLOWMETER CHAMBER ACCESS COVER

A-A ( 1 : 8 )



Approved by:

Date:

Signed:

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B	Rising Main Length Updated	31/05/2023	GR
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Issue:	Description:	Date:	Auth:



Tel: 01743465463  
 Fax: 01743452050  
 Email: sales@allpumpsolutions.com

**all pump solutions**  
 FLUID EXPERTISE

Title: **Foul water Pump Station to Design and Construction Guidance / IWNL Specification - Flowmeter Chamber Cover**

Contract: **Bradley Villa Farm, Huddersfield**

Contractor: **Redrow Homes**

Consulting Engineer: **Adam Shakespeare**

Works Order Number: **WO8963**

Size:	Scale:	Drawn:	Checked:	Approved:
<b>A3</b>	<b>1:20</b>	<b>GR</b>	<b>CW</b>	<b>CW</b>

Drawing Number: **EQ4839-152093-900** Date: **17/02/2023**

Internal Reference: **EQ4839** Issue: **B**