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Date: 03/10/23

Scale: 1:1250

Map Centre: 622640,293580

Data updated: 31/08/23

Our Ref: 1287274 - 29

Wastewater Plan A0

This plan is provided by Anglian Water pursuant its obligations under the Water Industry Act 1991 sections 198 or 199. It must be used in conjunction with any search results attached. The information on this plan is based on data currently recorded but position must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan before carrying out any work. No liability or responsibility of any kind is accepted by Anglian Water for any error or omission in the information supplied by Anglian Water in this plan or in any plan or document, including the failure to accurately record, or record at all, the location of any water main, discharge pipe, sewer or disposal main or any item of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (c) Crown copyright and database rights 2023 Ordnance Survey 100022432 This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

Foul Sewer			
Surface Sewer	Outfall*	Sewage Treatment Works	
Combined Sewer			
Final Effluent	Inlet*	Public Pumping Station	
Rising Main*			
Private Sewer*	Manhole*	Decommissioned Pumping Station	
Decommissioned Sewer*			

*(Colour denotes effluent type)

amanda.white@apogeeutilityconsultants.co.uk

426206 18

love every drop
anglianwater

B 1527

GP

BUNGAY ROAD

Track

Firs Field Farm Bungalow

Poultry Houses

Leprechauns

Falgate Cottage

Poachers Cottage

Pear Tree Cottage

Melrey

The Firs

Firs Farm

Council Houses

Firs Farm Cottage

Constantia

Beechcroft

Tahiti

The Ferns

Appletree Farm

ALBURGH ROAD

Sgurr-Nan-Gillean

High Hedges

Corner Cottage

Silver Green Farm

Sawmill

Woodlands

Chestnut Tree Farm

0m 100m 200m 300m

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Data updated: 31/08/23

Scale: 1:1250 Date: 03/10/23 Wastewater Plan A0

Map Centre: 625391,293915 Our Ref: 1287274 - 31 Powered by digdat

Foul Sewer
Surface Sewer
Combined Sewer
Final Effluent Sewer
Rising Main*
Private Sewer*
Decommissioned Sewer*

Outfall*
Inlet*
Manhole*

Sewage Treatment Works
Public Pumping Station
Decommissioned Pumping Station

*(Colour denotes effluent type)

amanda.white@apogeeutilityconsultants.co.uk

426206 19

love every drop anglianwater

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Date: 03/10/23

Scale: 1:1250

Map Centre: 624497,291990

Data updated: 31/08/23

Our Ref: 1287274 - 33

Wastewater Plan A0

This plan is provided by Anglian Water pursuant its obligations under the Water Industry Act 1991 sections 198 or 199. It must be used in conjunction with any search results attached. The information on this plan is based on data currently recorded but position must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan before carrying out any works. The actual position of all apparatus MUST be established by trial holes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy contained in this plan in respect of any matter which may affect the position of any mains, pipes, discharge pipe, sewer or disposal main or any item of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (c) Crown copyright and database rights 2023 Ordnance Survey 100022432.This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

Foul Sewer
Surface Sewer
Combined Sewer
Final Effluent
Rising Main*
Private Sewer*
Decommissioned Sewer*

Outfall*
Inlet*
Manhole*

Sewage Treatment Works
Public Pumping Station
Decommissioned Pumping Station

*(Colour denotes effluent type)

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426206 20

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Date: 03/10/23

Scale: 1:1250

Map Centre: 624554,291095

Data updated: 31/08/23

Our Ref: 1287274 - 35

Wastewater Plan A0

This plan is provided by Anglian Water pursuant its obligations under the Water Industry Act 1991 sections 198 or 199. It must be used in conjunction with any search results attached. The information on this plan is based on data currently recorded but position must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan before carrying out any works. The actual position of all apparatus MUST be established by trial holes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy contained in this plan in relation to the actual position of any sewer, lateral drain, service pipe, discharge pipe, sewer or disposal main or any item of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (c) Crown copyright and database rights 2023 Ordnance Survey 100022432.This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

Foul Sewer
Surface Sewer
Combined Sewer
Final Effluent
Rising Main*
Private Sewer*
Decommissioned Sewer*

Outfall*
Inlet*
Manhole*

Sewage Treatment Works
Public Pumping Station
Decommissioned Pumping Station

*(Colour denotes effluent type)

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426206 21

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Appendix D Proposed Drainage Information

- Greenfield Runoff Rates
- FEH22 Point Descriptors
- InfoDrainage schedule and results
- Stantec drawings:
    - 333101678/300.03/001 & 002 (BESS, National Grid & 400kV Substations BESS & 1B)
    - 333101678/300.03/004 & 005 (Project Substations 4B, 5A, 7F & 10C)
    - 333101678/300.03/003 & 006 to 023 (Concept Access Track Drainage Wider Order Limits)

FEH Catchment Descriptors - BESS, NG Substation, Project Substations 1 & 3

FEH data export	Date	13/10/2025	FEHCDROM version	2022

\\Cbh-vfil-001\cbh\Projects\333101211 Long Stratton (Hydro)\Incoming\FEH

Descriptor	
Catchment X	617250
Catchment Y	288380
Centroid X	
Centroid Y	
AREA	
ALTBAR	
ASPBAR	
ASPVAR	
BFIHOST	0.312
BFIHOST19	0.333
DPLBAR	
DPSBAR	
FARL	
FPEXT	
FPDBAR	
FPLOC	
LDP	
PROPWET	0.31
RMED-1H	
RMED-1D	
RMED-2D	
SAAR	606
SAAR4170	
SPRHOST	
URBCONC1990	
URBEXT1990	
URBLOC1990	
URBCONC2000	
URBEXT2000	
URBLOC2000	
C	
D1	
D2	
D3	
E	
F	
C(1 km)	
D1(1 km)	
D2(1 km)	
D3(1 km)	
E(1 km)	
F(1 km)	

Descriptors provided by POINT export

FEH Catchment Descriptors - Project Substation 132kV 4B

FEH data export	Date	08/09/2026	FEHCDROM version	2022

\\Cbh-vfil-001\cbh\Projects\333101211 Long Stratton (Hydro)\Incoming\FEH

Descriptors provided by POINT export

Descriptor	
Catchment X	620640
Catchment Y	294387
Centroid X	
Centroid Y	
AREA	
ALTBAR	
ASPBAR	
ASPVAR	
BFIHOST	0.605
BFIHOST19	0.6
DPLBAR	
DPSBAR	
FARL	
FPEXT	
FPDBAR	
FPLOC	
LDP	
PROPWET	0.27
RMED-1H	
RMED-1D	
RMED-2D	
SAAR	601
SAAR4170	
SPRHOST	
URBCONC1990	
URBEXT1990	
URBLOC1990	
URBCONC2000	
URBEXT2000	
URBLOC2000	
C	
D1	
D2	
D3	
E	
F	
C(1 km)	
D1(1 km)	
D2(1 km)	
D3(1 km)	
E(1 km)	
F(1 km)	

FEH Catchment Descriptors - Project Substation 2 400kV 5A

FEH data export	Date	08/09/2026	FEHCDROM version	2022

\\Cbh-vfil-001\cbh\Projects\333101211 Long Stratton (Hydro)\Incoming\FEH

Descriptors provided by POINT export

Descriptor	
Catchment X	622455
Catchment Y	293765
Centroid X	
Centroid Y	
AREA	
ALTBAR	
ASPBAR	
ASPVAR	
BFIHOST	0.435
BFIHOST19	0.437
DPLBAR	
DPSBAR	
FARL	
FPEXT	
FPDBAR	
FPLOC	
LDP	
PROPWET	0.27
RMED-1H	
RMED-1D	
RMED-2D	
SAAR	598
SAAR4170	
SPRHOST	
URBCONC1990	
URBEXT1990	
URBLOC1990	
URBCONC2000	
URBEXT2000	
URBLOC2000	
C	
D1	
D2	
D3	
E	
F	
C(1 km)	
D1(1 km)	
D2(1 km)	
D3(1 km)	
E(1 km)	
F(1 km)	

FEH Catchment Descriptors - Project Substation 132kV 7F

FEH data export	Date	08/09/2026	FEHCDROM version	2022

\\Cbh-vfil-001\cbh\Projects\333101211 Long Stratton (Hydro)\Incoming\FEH

Descriptors provided by POINT export

Descriptor	
Catchment X	624184
Catchment Y	295920
Centroid X	
Centroid Y	
AREA	
ALTBAR	
ASPBAR	
ASPVAR	
BFIHOST	0.367
BFIHOST19	0.385
DPLBAR	
DPSBAR	
FARL	
FPEXT	
FPDBAR	
FPLOC	
LDP	
PROPWET	0.27
RMED-1H	
RMED-1D	
RMED-2D	
SAAR	599
SAAR4170	
SPRHOST	
URBCONC1990	
URBEXT1990	
URBLOC1990	
URBCONC2000	
URBEXT2000	
URBLOC2000	
C	
D1	
D2	
D3	
E	
F	
C(1 km)	
D1(1 km)	
D2(1 km)	
D3(1 km)	
E(1 km)	
F(1 km)	

FEH Catchment Descriptors - Project Substation 132kV 10C

FEH data export	Date	08/09/2026	FEHCDROM version	2022

\\Cbh-vfil-001\cbh\Projects\333101211 Long Stratton (Hydro)\Incoming\FEH

Descriptors provided by POINT export

Descriptor	
Catchment X	629915
Catchment Y	295300
Centroid X	
Centroid Y	
AREA	
ALTBAR	
ASPBAR	
ASPVAR	
BFIHOST	0.395
BFIHOST19	0.412
DPLBAR	
DPSBAR	
FARL	
FPEXT	
FPDBAR	
FPLOC	
LDP	
PROPWET	0.27
RMED-1H	
RMED-1D	
RMED-2D	
SAAR	607
SAAR4170	
SPRHOST	
URBCONC1990	
URBEXT1990	
URBLOC1990	
URBCONC2000	
URBEXT2000	
URBLOC2000	
C	
D1	
D2	
D3	
E	
F	
C(1 km)	
D1(1 km)	
D2(1 km)	
D3(1 km)	
E(1 km)	
F(1 km)	

FEH Greenfield Runoff

Using the 2008 Statistical Method QMED Equation

Project Title	East Pye Solar DCO - Greenfield Runoff - BESS, National Grid Substation, and Project Substations 400kV 1 and 3	
Project No	333103270	100.06

Methodology as set out in SuDS Manual 24.3.2 — SUDS Manual Chapter 24

1 Retrieve FEH Catchment Information

Define BFIHOST definition source		FEH	*see note 1*
Catchment Descriptors	**BFIHOST**	0.333	
	SAAR	606	*see note 1*
	FARL	1.0	*see note 2*

2 Derive QBAR (mean annual flood)

Define area	**Site Area**	1.00	ha	
	Applied Area	50.0	ha	*see note 3*
FEH Index Flood (SuDS Manual Equation 24.2)	**QMED (Q_2)**	3.0	l/s	*see note 4*
Calculate QBAR by dividing QMED by 2yr growth factor	**QBAR**	3.3	l/s	*see note 5*

3 Select appropriate growth factors

FSR Hydrological Region		5	*(refer to FSR Hydrological Region tab)*
100yr Growth Curve Factor	**GQ_{100}**	3.56	
30yr Growth Curve Factor	**GQ_{30}**	2.55	
10yr Growth Curve Factor	**GQ_{10}**	1.65	
2yr Growth Curve Factor	**GQ_2**	0.89	
1yr Growth Curve Factor	**GQ_1**	0.87	

4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	**Q_{100}**	11.9	l/s/ha
30yr Peak Runoff Rate	**Q_{30}**	8.5	l/s/ha
10yr Growth Curve Rate	**Q_{10}**	5.5	l/s/ha
QBAR Peak Runoff Rate	**QBAR**	3.3	l/s/ha
2yr Peak Runoff Rate	**Q_2**	3.0	l/s/ha
1yr Peak Runoff Rate	**Q_1**	2.9	l/s/ha

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	E Edney	24/10/2025	A Johnson	03/12/2025
A	Re-issued with updated page title	E Edney	08/09/2026	A Johnson	08/09/2026

Notes This spreadsheet has been created to allow derivation of greenfield runoff rates using the FEH statistical method applied in a manner consistent with the recommendations of the SuDS Manual. If you have recommendations to improve this spreadsheet please contact Alex Bearne.

Note 1 FEH Web version 3 allows extraction of BFIHOST and SAAR values for each square kilometre grid Export point data from FEH Webs Service as .XML file and save in project folder and import in the FEH Point Data Import tab. If you do not think the BFIHOST value is representative of your site then it is possible to derive it manually. This should not normally be necessary. BFI can be derived manually using the methodology set out in the Flood Estimation Handbook (see Manual Derivation *of BFIHOST tab)* or can be defined from ground investigation information.
As default the sheet references the imported FEH data

Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
Rainfall runoff management for developments.pdf

Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area

Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

$$Q_{MED} = 8.3062AREA^{0.8510} .0.1536^{(1000/SAAR)} .FARL^{3.4451} .0.0460^{BFIHOST\wedge 2}$$

Rainfall runoff management for developments.pdf
It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments' .
QBAR is then used as the index flood for the basis of applying the growth factors.

FEH Greenfield Runoff

Using the 2008 Statistical Method QMED Equation

Project Title	East Pye Solar DCO - Greenfield Runoff - Project Substation 132kV Sub-Site 4B	
Project No	333103270	100.06

Methodology as set out in SuDS Manual 24.3.2 — SUDS Manual Chapter 24

1 Retrieve FEH Catchment Information

Define BFIHOST definition source		FEH	*see note 1*
Catchment Descriptors	**BFIHOST**	0.600	
	SAAR	601	*see note 1*
	FARL	1.0	*see note 2*

2 Derive QBAR (mean annual flood)

Define area	**Site Area**	0.50	ha	
	Applied Area	50.0	ha	*see note 3*
FEH Index Flood (SuDS Manual Equation 24.2)	**QMED (Q_2)**	0.7	l/s	*see note 4*
Calculate QBAR by dividing QMED by 2yr growth factor	**QBAR**	0.8	l/s	*see note 5*

3 Select appropriate growth factors

FSR Hydrological Region		5
100yr Growth Curve Factor	**GQ_{100}**	3.56
30yr Growth Curve Factor	**GQ_{30}**	2.55
10yr Growth Curve Factor	**GQ_{10}**	1.65
2yr Growth Curve Factor	**GQ_2**	0.89
1yr Growth Curve Factor	**GQ_1**	0.87

(refer to FSR Hydrological Region tab)

4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	**Q_{100}**	2.7	ha
30yr Peak Runoff Rate	**Q_{30}**	1.9	ha
10yr Growth Curve Rate	**Q_{10}**	1.2	ha
QBAR Peak Runoff Rate	**QBAR**	0.8	ha
2yr Peak Runoff Rate	**Q_2**	0.7	ha
1yr Peak Runoff Rate	**Q_1**	0.7	ha

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	E Edney	08/09/2026	A Johnson	08/09/2026

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Note 1 FEH Web version 3 allows extraction of BFIHOST and SAAR values for each square kilometre grid Export point data from FEH Webs Service as .XML file and save in project folder and import in the FEH Point Data Import tab. If you do not think the BFIHOST value is representative of your site then it is possible to derive it manually. This should not normally be necessary. BFI can be derived manually using the methodology set out in the Flood Estimation Handbook (see Manual Derivation *of BFIHOST tab)* or can be defined from ground investigation information.
As default the sheet references the imported FEH data

Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
Rainfall runoff management for developments.pdf

Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area

Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

$$Q_{MED} = 8.3062AREA^{0.8510} .0.1536^{(1000/SAAR)} .FARL^{3.4451} .0.0460^{BFIHOST\wedge 2}$$

Rainfall runoff management for developments.pdf
It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments' .
QBAR is then used as the index flood for the basis of applying the growth factors.

FEH Greenfield Runoff

Using the 2008 Statistical Method QMED Equation

Project Title	East Pye Solar DCO - Greenfield Runoff - Project Substation 400kV Sub-Site 5A	
Project No	333103270	100.06

Methodology as set out in SuDS Manual 24.3.2 — SUDS Manual Chapter 24

1 Retrieve FEH Catchment Information

Define BFIHOST definition source		FEH	*see note 1*
Catchment Descriptors	**BFIHOST**	0.437	
	SAAR	598	*see note 1*
	FARL	1.0	*see note 2*

2 Derive QBAR (mean annual flood)

Define area	**Site Area**	3.50	ha	
	Applied Area	50.0	ha	*see note 3*
FEH Index Flood (SuDS Manual Equation 24.2)	**QMED (Q_2)**	7.8	l/s	*see note 4*
Calculate QBAR by dividing QMED by 2yr growth factor	**QBAR**	8.8	l/s	*see note 5*

3 Select appropriate growth factors

FSR Hydrological Region		5
100yr Growth Curve Factor	**GQ_{100}**	3.56
30yr Growth Curve Factor	**GQ_{30}**	2.55
10yr Growth Curve Factor	**GQ_{10}**	1.65
2yr Growth Curve Factor	**GQ_2**	0.89
1yr Growth Curve Factor	**GQ_1**	0.87

(refer to FSR Hydrological Region tab)

4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	**Q_{100}**	31.2	ha
30yr Peak Runoff Rate	**Q_{30}**	22.4	ha
10yr Growth Curve Rate	**Q_{10}**	14.5	ha
QBAR Peak Runoff Rate	**QBAR**	8.8	ha
2yr Peak Runoff Rate	**Q_2**	7.8	ha
1yr Peak Runoff Rate	**Q_1**	7.6	ha

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	E Edney	08/09/2026	A Johnson	08/09/2026

Notes This spreadsheet has been created to allow derivation of greenfield runoff rates using the FEH statistical method applied in a manner consistent with the recommendations of the SuDS Manual. If you have recommendations to improve this spreadsheet please contact Alex Bearne.

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As default the sheet references the imported FEH data

Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
Rainfall runoff management for developments.pdf

Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area

Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

$$Q_{MED} = 8.3062AREA^{0.8510} .0.1536^{(1000/SAAR)} .FARL^{3.4451} .0.0460^{BFIHOST\wedge 2}$$

Rainfall runoff management for developments.pdf
It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments' .
QBAR is then used as the index flood for the basis of applying the growth factors.

FEH Greenfield Runoff

Using the 2008 Statistical Method QMED Equation

Project Title	East Pye Solar DCO - Greenfield Runoff - Project Substation 132kV Sub-Site 7F	
Project No	333103270	100.06

Methodology as set out in SuDS Manual 24.3.2 — SUDS Manual Chapter 24

1 Retrieve FEH Catchment Information

Define BFIHOST definition source		FEH	*see note 1*
Catchment Descriptors	**BFIHOST**	0.385	
	SAAR	599	*see note 1*
	FARL	1.0	*see note 2*

2 Derive QBAR (mean annual flood)

Define area	**Site Area**	0.75	ha	
	Applied Area	50.0	ha	*see note 3*
FEH Index Flood (SuDS Manual Equation 24.2)	**QMED (Q_2)**	1.9	l/s	*see note 4*
Calculate QBAR by dividing QMED by 2yr growth factor	**QBAR**	2.2	l/s	*see note 5*

3 Select appropriate growth factors

FSR Hydrological Region		5	*(refer to FSR Hydrological Region tab)*
100yr Growth Curve Factor	**GQ_{100}**	3.56	
30yr Growth Curve Factor	**GQ_{30}**	2.55	
10yr Growth Curve Factor	**GQ_{10}**	1.65	
2yr Growth Curve Factor	**GQ_2**	0.89	
1yr Growth Curve Factor	**GQ_1**	0.87	

4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	**Q_{100}**	7.7	ha
30yr Peak Runoff Rate	**Q_{30}**	5.5	ha
10yr Growth Curve Rate	**Q_{10}**	3.6	ha
QBAR Peak Runoff Rate	**QBAR**	2.2	ha
2yr Peak Runoff Rate	**Q_2**	1.9	ha
1yr Peak Runoff Rate	**Q_1**	1.9	ha

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	E Edney	08/09/2026	A Johnson	08/09/2026

Notes This spreadsheet has been created to allow derivation of greenfield runoff rates using the FEH statistical method applied in a manner consistent with the recommendations of the SuDS Manual. If you have recommendations to improve this spreadsheet please contact Alex Bearne.

Note 1 FEH Web version 3 allows extraction of BFIHOST and SAAR values for each square kilometre grid Export point data from FEH Webs Service as .XML file and save in project folder and import in the FEH Point Data Import tab. If you do not think the BFIHOST value is representative of your site then it is possible to derive it manually. This should not normally be necessary. BFI can be derived manually using the methodology set out in the Flood Estimation Handbook (see Manual Derivation *of BFIHOST tab)* or can be defined from ground investigation information.
As default the sheet references the imported FEH data

Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
Rainfall runoff management for developments.pdf

Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area

Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

$$Q_{MED} = 8.3062AREA^{0.8510} .0.1536^{(1000/SAAR)} .FARL^{3.4451} .0.0460^{BFIHOST\wedge 2}$$

Rainfall runoff management for developments.pdf
It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments' .
QBAR is then used as the index flood for the basis of applying the growth factors.

FEH Greenfield Runoff

Using the 2008 Statistical Method QMED Equation

Project Title	East Pye Solar DCO - Greenfield Runoff - Project Substation 132kV Sub-Site 10C	
Project No	333103270	100.06

Methodology as set out in SuDS Manual 24.3.2 — SUDS Manual Chapter 24

1 Retrieve FEH Catchment Information

Define BFIHOST definition source		FEH	*see note 1*
Catchment Descriptors	**BFIHOST**	0.412	
	SAAR	607	*see note 1*
	FARL	1.0	*see note 2*

2 Derive QBAR (mean annual flood)

Define area	**Site Area**	0.50	ha	
	Applied Area	50.0	ha	*see note 3*
FEH Index Flood (SuDS Manual Equation 24.2)	**QMED (Q_2)**	1.2	l/s	*see note 4*
Calculate QBAR by dividing QMED by 2yr growth factor	**QBAR**	1.4	l/s	*see note 5*

3 Select appropriate growth factors

FSR Hydrological Region		5	*(refer to FSR Hydrological Region tab)*
100yr Growth Curve Factor	**GQ_{100}**	3.56	
30yr Growth Curve Factor	**GQ_{30}**	2.55	
10yr Growth Curve Factor	**GQ_{10}**	1.65	
2yr Growth Curve Factor	**GQ_2**	0.89	
1yr Growth Curve Factor	**GQ_1**	0.87	

4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	**Q_{100}**	5.0	ha
30yr Peak Runoff Rate	**Q_{30}**	3.6	ha
10yr Growth Curve Rate	**Q_{10}**	2.3	ha
QBAR Peak Runoff Rate	**QBAR**	1.4	ha
2yr Peak Runoff Rate	**Q_2**	1.2	ha
1yr Peak Runoff Rate	**Q_1**	1.2	ha

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	E Edney	08/09/2026	A Johnson	08/09/2026

Notes This spreadsheet has been created to allow derivation of greenfield runoff rates using the FEH statistical method applied in a manner consistent with the recommendations of the SuDS Manual. If you have recommendations to improve this spreadsheet please contact Alex Bearne.

Note 1 FEH Web version 3 allows extraction of BFIHOST and SAAR values for each square kilometre grid Export point data from FEH Webs Service as .XML file and save in project folder and import in the FEH Point Data Import tab. If you do not think the BFIHOST value is representative of your site then it is possible to derive it manually. This should not normally be necessary. BFI can be derived manually using the methodology set out in the Flood Estimation Handbook (see Manual Derivation *of BFIHOST tab)* or can be defined from ground investigation information.
As default the sheet references the imported FEH data

Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
Rainfall runoff management for developments.pdf

Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area

Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

$$Q_{MED} = 8.3062AREA^{0.8510} .0.1536^{(1000/SAAR)} .FARL^{3.4451} .0.0460^{BFIHOST\wedge 2}$$

Rainfall runoff management for developments.pdf
It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments' .
QBAR is then used as the index flood for the basis of applying the growth factors.

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Inflows Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

CA BESS

Type : Catchment Area

Area (ha)	6.50

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA National Grid Substation

Type : Catchment Area

Area (ha)	6.00

Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA 400kV Project Substation Sub-Site 1B

Type : Catchment Area

Area (ha)	1.10

Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA 400kV Project Substation BESS Site

Type : Catchment Area

Area (ha)	3.00

Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)	
OF BESS	Simple Junction	617093.947	288726.490						
BESS FC	Manhole	617121.538	288677.894	54.550	1.130	53.420	Circular	3.000	None
NG SS FC	Manhole	616856.302	289205.618	55.700	0.870	54.830	Circular	3.000	None
OF NG	Simple Junction	616833.537	289117.073						
OF PSS1B	Simple Junction	617084.320	289206.805						
PSS1B FC	Manhole	617101.754	289220.610	55.800	0.720	55.080	Circular	1.200	None
OF PSS BESS Site	Simple Junction	617432.540	288303.347						
PSS BESS Site FC	Manhole	617386.046	288318.541	54.480	0.700	53.780	Circular	3.000	None

BESS

Type : Porous Paving

Dimensions

Exceedance Level (m)	54.550
Depth (m)	0.650
Base Level (m)	53.900
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	32.4
Porosity (%)	30
Length (m)	318.500
Long. Slope (1:X)	430.00
Width (m)	204.058
Total Volume (m³)	11116.341

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CA BESS
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	1.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0

National Grid Substation

Type : Porous Paving

Dimensions

Exceedance Level (m)	55.700
Depth (m)	0.650
Base Level (m)	55.050
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	34.2
Porosity (%)	30
Length (m)	368.409
Long. Slope (1:X)	470.00
Width (m)	162.869
Total Volume (m³)	10263.272

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CA National Grid Substation
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	3.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0

400kV Project Substation Sub-Site 1B

Type : Porous Paving

Dimensions

Exceedance Level (m)	55.800
Depth (m)	0.700
Base Level (m)	55.100
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	34.2
Porosity (%)	30
Length (m)	148.332
Long. Slope (1:X)	600.00
Width (m)	74.154
Total Volume (m³)	2047.728

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CA 400kV Project Substation Sub-Site 1B
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	4.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0

400kV Project Substation BESS Site

Type : Porous Paving

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Stormwater Controls Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Dimensions

Exceedance Level (m)	54.480
Depth (m)	0.660
Base Level (m)	53.820
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	34.2
Porosity (%)	30
Length (m)	278.021
Long. Slope (1:X)	480.00
Width (m)	107.892
Total Volume (m³)	5222.353

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CA 400kV Project Substation BESS Site
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	2.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Connections Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)
1.000	37.035	Pipe	77.156		0.6	150	54.550	53.900	54.550	53.420	None	
1.001	55.882	Pipe	96.349		0.6	150	54.550	53.420	54.390	52.840	None	23.5
3.000	16.459	Pipe	74.813		0.6	150	55.700	55.050	55.700	54.830	None	
3.001	91.425	Pipe	99.375		0.6	150	55.700	54.830	55.450	53.910	None	21.7
4.000	1.880	Pipe	93.999		0.6	150	55.800	55.100	55.800	55.080	None	
4.001	22.238	Pipe	96.688		0.6	150	55.800	55.080	55.600	54.850	None	3.6
2.000	5.439	Pipe	135.977		0.6	150	54.480	53.820	54.480	53.780	None	
2.001	48.914	Pipe	84.334		0.6	150	54.480	53.780	53.920	53.200	None	9.9

Name	Culvert Type	Culvert Entrance
1.000	(None)	(None)
1.001	(None)	(None)
3.000	(None)	(None)
3.001	(None)	(None)
4.000	(None)	(None)
4.001	(None)	(None)
2.000	(None)	(None)
2.001	(None)	(None)

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
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Report Details: Type: Junctions Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
OF BESS	FEH: 2 years: +0 %: 10080 mins: Summer		52.840	52.930	0.090	12.3	4010.159	OK
BESS FC	FEH: 2 years: +0 %: 10080 mins: Summer	54.550	53.420	53.674	0.254	12.3	4010.182	Surcharged
NG SS FC	FEH: 2 years: +0 %: 10080 mins: Summer	55.700	54.830	55.072	0.242	11.1	3702.110	Surcharged
OF NG	FEH: 2 years: +0 %: 10080 mins: Summer		53.910	53.995	0.085	11.1	3702.077	OK
OF PSS1B	FEH: 2 years: +0 %: 2160 mins: Summer		54.850	54.892	0.042	3.1	381.312	OK
PSS1B FC	FEH: 2 years: +0 %: 2160 mins: Summer	55.800	55.080	55.263	0.183	3.1	381.330	Surcharged
OF PSS BESS Site	FEH: 2 years: +0 %: 10080 mins: Summer		53.200	53.262	0.062	6.9	1896.087	OK
PSS BESS Site FC	FEH: 2 years: +0 %: 10080 mins: Summer	54.480	53.780	53.991	0.211	6.9	1896.097	Surcharged

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Junctions Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
OF BESS	FEH: 30 years: +0 %: 720 mins: Winter		52.840	52.950	0.110	16.3	1088.789	OK
BESS FC	FEH: 30 years: +0 %: 720 mins: Winter	54.550	53.420	53.742	0.322	16.3	1089.183	Surcharged
NG SS FC	FEH: 30 years: +0 %: 960 mins: Winter	55.700	54.830	55.116	0.286	13.7	1204.881	Surcharged
OF NG	FEH: 30 years: +0 %: 960 mins: Winter		53.910	54.008	0.098	13.7	1204.350	OK
OF PSS1B	FEH: 30 years: +0 %: 2160 mins: Summer		54.850	54.895	0.045	3.6	550.775	OK
PSS1B FC	FEH: 30 years: +0 %: 4320 mins: Summer	55.800	55.080	55.394	0.314	3.6	922.637	Surcharged
OF PSS BESS Site	FEH: 30 years: +0 %: 2880 mins: Winter		53.200	53.272	0.072	9.1	2091.947	OK
PSS BESS Site FC	FEH: 30 years: +0 %: 2880 mins: Winter	54.480	53.780	54.058	0.278	9.1	2092.047	Surcharged

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
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FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
OF BESS	FEH: 30 years: +40 %: 960 mins: Winter		52.840	52.957	0.117	17.4	1586.009	OK
BESS FC	FEH: 30 years: +40 %: 960 mins: Winter	54.550	53.420	53.766	0.346	17.4	1586.417	Surcharged
NG SS FC	FEH: 30 years: +40 %: 960 mins: Winter	55.700	54.830	55.154	0.324	15.7	1389.905	Surcharged
OF NG	FEH: 30 years: +40 %: 960 mins: Winter		53.910	54.018	0.108	15.7	1389.322	OK
OF PSS1B	FEH: 30 years: +40 %: 4320 mins: Winter		54.850	54.895	0.045	3.6	1181.334	OK
PSS1B FC	FEH: 30 years: +40 %: 4320 mins: Winter	55.800	55.080	55.480	0.400	3.6	1181.383	Surcharged
OF PSS BESS Site	FEH: 30 years: +40 %: 8640 mins: Winter		53.200	53.275	0.075	9.9	4179.151	OK
PSS BESS Site FC	FEH: 30 years: +40 %: 8640 mins: Winter	54.480	53.780	54.109	0.329	9.9	4179.161	Surcharged

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
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Report Details: Type: Junctions Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
OF BESS	FEH: 100 years: +0 %: 1440 mins: Summer		52.840	52.958	0.118	17.6	2373.259	OK
BESS FC	FEH: 100 years: +0 %: 1440 mins: Summer	54.550	53.420	53.769	0.349	17.6	2373.662	Surcharged
NG SS FC	FEH: 100 years: +0 %: 1440 mins: Winter	55.700	54.830	55.158	0.328	15.9	2102.320	Surcharged
OF NG	FEH: 100 years: +0 %: 1440 mins: Winter		53.910	54.019	0.109	15.9	2101.749	OK
OF PSS1B	FEH: 100 years: +0 %: 8640 mins: Winter		54.850	54.895	0.045	3.6	1458.062	OK
PSS1B FC	FEH: 100 years: +0 %: 7200 mins: Summer	55.800	55.080	55.455	0.375	3.6	1427.609	Surcharged
OF PSS BESS Site	FEH: 100 years: +0 %: 7200 mins: Summer		53.200	53.275	0.075	9.9	3841.841	OK
PSS BESS Site FC	FEH: 100 years: +0 %: 5760 mins: Winter	54.480	53.780	54.199	0.419	9.9	3716.105	Surcharged

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Junctions Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
OF BESS	FEH: 100 years: +45 %: 480 mins: Summer		52.840	52.990	0.150	19.0	858.439	OK
BESS FC	FEH: 100 years: +45 %: 1440 mins: Winter	54.550	53.420	53.860	0.440	18.8	2675.186	Surcharged
NG SS FC	FEH: 100 years: +45 %: 2160 mins: Winter	55.700	54.830	55.228	0.398	18.7	3711.840	Surcharged
OF NG	FEH: 100 years: +45 %: 1440 mins: Winter		53.910	54.060	0.150	18.7	2505.551	OK
OF PSS1B	FEH: 100 years: +45 %: 8640 mins: Winter		54.850	54.895	0.045	3.6	2110.042	OK
PSS1B FC	FEH: 100 years: +45 %: 7200 mins: Summer	55.800	55.080	55.591	0.511	3.6	2030.394	Surcharged
OF PSS BESS Site	FEH: 100 years: +45 %: 8640 mins: Winter		53.200	53.275	0.075	9.9	5708.278	OK
PSS BESS Site FC	FEH: 100 years: +45 %: 8640 mins: Winter	54.480	53.780	54.321	0.541	9.9	5708.295	Surcharged

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Stormwater Controls Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
BESS	FEH: 2 years: +0 %: 10080 mins: Summer	54.710	53.986	0.070	0.086	27.4	2084.842	0.000	12.3	4010.471		OK
National Grid Substation	FEH: 2 years: +0 %: 10080 mins: Summer	55.903	55.136	0.069	0.086	25.3	1913.580	0.000	11.1	3702.362		OK
400kV Project Substation Sub-Site 1B	FEH: 2 years: +0 %: 720 mins: Winter	55.404	55.258	0.057	0.158	20.2	293.350	0.000	3.0	176.657		OK
400kV Project Substation BESS Site	FEH: 2 years: +0 %: 5760 mins: Summer	54.456	53.999	0.057	0.179	17.5	904.013	0.000	6.8	1450.413		OK

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Stormwater Controls Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
BESS	FEH: 30 years: +0 %: 1440 mins: Winter	54.794	54.061	0.153	0.161	135.4	3819.094	0.000	16.2	2072.163		OK
National Grid Substation	FEH: 30 years: +0 %: 1440 mins: Winter	55.985	55.224	0.151	0.174	125.0	3585.837	0.000	13.7	1794.711		OK
400kV Project Substation Sub-Site 1B	FEH: 30 years: +0 %: 1440 mins: Summer	55.438	55.413	0.091	0.313	35.5	645.459	0.000	3.6	334.115		OK
400kV Project Substation BESS Site	FEH: 30 years: +0 %: 1440 mins: Winter	54.513	54.068	0.114	0.248	62.5	1759.844	0.000	8.8	1122.941		OK

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Stormwater Controls Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
BESS	FEH: 30 years: +40 %: 2160 mins: Winter	54.860	54.130	0.220	0.230	135.6	5565.331	0.000	17.2	3496.316	35	OK
National Grid Substation	FEH: 30 years: +40 %: 2160 mins: Winter	56.051	55.293	0.217	0.243	125.2	5193.057	0.000	15.5	3034.743	110	OK
400kV Project Substation Sub-Site 1B	FEH: 30 years: +40 %: 1440 mins: Summer	55.514	55.502	0.167	0.402	49.7	943.245	0.000	3.6	372.708		OK
400kV Project Substation BESS Site	FEH: 30 years: +40 %: 1440 mins: Winter	54.579	54.140	0.180	0.320	87.5	2519.858	0.000	9.9	1320.643		OK

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Stormwater Controls Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
BESS	FEH: 100 years: +0 %: 2160 mins: Winter	54.876	54.145	0.235	0.245	142.8	5904.142	0.000	17.5	3560.770	380	OK
National Grid Substation	FEH: 100 years: +0 %: 2160 mins: Winter	56.066	55.306	0.232	0.256	131.8	5499.622	0.000	15.8	3105.770	445	OK
400kV Project Substation Sub-Site 1B	FEH: 100 years: +0 %: 2160 mins: Winter	55.530	55.518	0.183	0.418	24.2	997.223	0.000	3.6	575.599		OK
400kV Project Substation BESS Site	FEH: 100 years: +0 %: 2160 mins: Winter	54.572	54.217	0.173	0.397	65.9	2726.646	0.000	9.9	1585.082	310	OK

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Stormwater Controls Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
BESS	FEH: 100 years: +45 %: 2160 mins: Winter	55.024	54.285	0.384	0.385	207.1	8982.433	0.000	18.8	3999.070		OK
National Grid Substation	FEH: 100 years: +45 %: 2160 mins: Winter	56.213	55.430	0.379	0.380	191.2	8256.295	0.000	18.7	3714.222		OK
400kV Project Substation Sub-Site 1B	FEH: 100 years: +45 %: 2160 mins: Winter	55.687	55.671	0.340	0.571	35.0	1511.414	0.000	3.6	679.821		OK
400kV Project Substation BESS Site	FEH: 100 years: +45 %: 2160 mins: Summer	54.712	54.379	0.313	0.559	148.1	4187.852	0.000	10.0	1782.826		OK

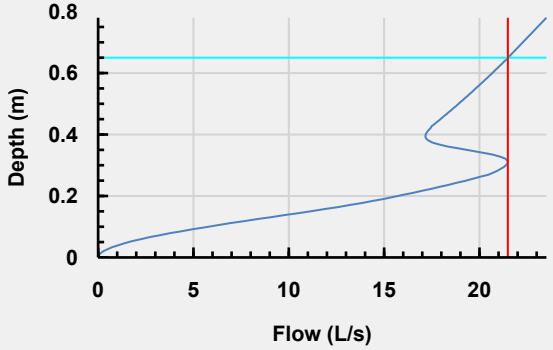
East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)	
OF BESS	Simple Junction	617093.947	288726.490						
BESS FC	Manhole	617121.538	288677.894	54.550	1.130	53.420	Circular	3.000	None
NG SS FC	Manhole	616856.302	289205.618	55.700	0.870	54.830	Circular	3.000	None
OF NG	Simple Junction	616833.537	289117.073						
OF PSS1B	Simple Junction	617084.320	289206.805						
PSS1B FC	Manhole	617101.754	289220.610	55.800	0.720	55.080	Circular	1.200	None
OF PSS BESS Site	Simple Junction	617432.540	288303.347						
PSS BESS Site FC	Manhole	617386.046	288318.541	54.480	0.700	53.780	Circular	3.000	None

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
	Outlet	1.001	Hydro-Brake®

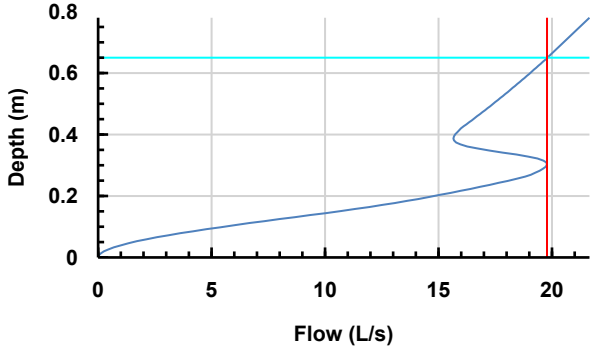
Junction	Outlet Name	Outgoing Connection	Outlet Type
BESS FC	Invert Level (m): 53.420 Design Depth (m): 0.650 Design Flow (L/s): 21.5 Objective: Minimise Upstream Storage Requirements Application: Surface Water Only Sump Available: ☐ Unit Reference: CHE-0200-2150-0650-2150		
	Outlet	3.001	Hydro-Brake®



East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Junction	Outlet Name	Outgoing Connection	Outlet Type
NG SS FC	Outlet	4.001	Hydro-Brake®

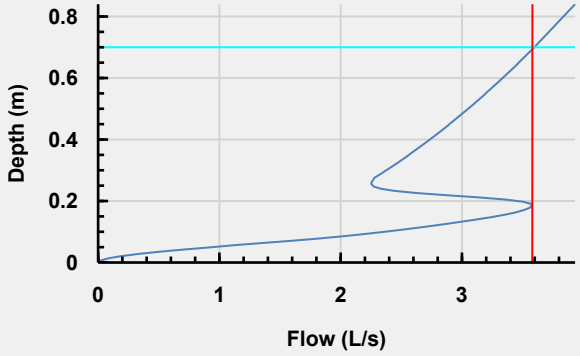
Invert Level (m)	54.830
Design Depth (m)	0.650
Design Flow (L/s)	19.8
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0195-1980-0650-1980



East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

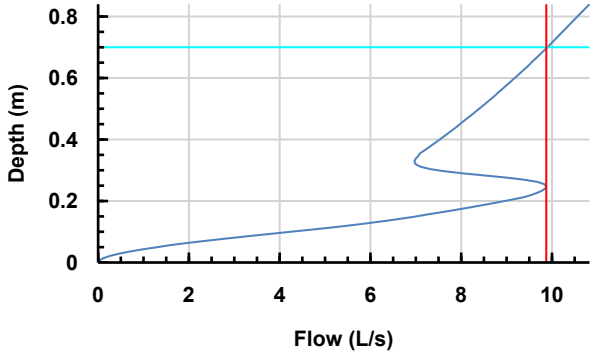
Junction	Outlet Name	Outgoing Connection	Outlet Type
PSS1B FC	Outlet	2.001	Hydro-Brake®

Invert Level (m)	55.080
Design Depth (m)	0.700
Design Flow (L/s)	3.6
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0091-3600-0700-3600



Junction	Outlet Name	Outgoing Connection	Outlet Type
PSS BESS Site FC			

Invert Level (m)	53.780
Design Depth (m)	0.700
Design Flow (L/s)	9.9
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0143-9900-0700-9900



East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Inflows Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

132kV 4B

Type : Catchment Area

Area (ha)	0.50

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CASW1

Type : Catchment Area

Area (ha)	0.036

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CASW2

Type : Catchment Area

Area (ha)	0.02

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CASW3

Type : Catchment Area

Area (ha)	0.023

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CASW4

Type : Catchment Area

Area (ha)	0.039

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CASW5

Type : Catchment Area

Area (ha)	0.042

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Inflows Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

CASW6

Type : Catchment Area

Area (ha)	0.037

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA Inv1

Type : Catchment Area

Area (ha)	0.009

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA Inv2

Type : Catchment Area

Area (ha)	0.009

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA Inv3

Type : Catchment Area

Area (ha)	0.009

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA Inv4

Type : Catchment Area

Area (ha)	0.009

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA Inv5

Type : Catchment Area

Area (ha)	0.009

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA Inv6

Type : Catchment Area

Area (ha)	0.009

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA Inv7

Type : Catchment Area

Area (ha)	0.009

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA Inv8

Type : Catchment Area

Area (ha)	0.009

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

CA Inv9

Type : Catchment Area

Area (ha)	0.009

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Junctions Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

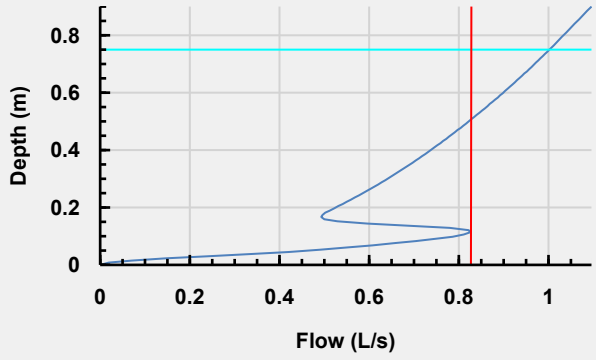
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
FC4B	Manhole	620676.384	294425.240	33.700	0.800	32.900	Circular	3.000
OF4B	Simple Junction	620708.281	294450.291					
OFSW1	Simple Junction	620726.667	294597.392					
OFSW2	Simple Junction	620753.245	294711.379					
OFSW6	Simple Junction	620376.237	294596.073					

Name	Lock
FC4B	None
OF4B	
OFSW1	
OFSW2	
OFSW6	

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
FC4B	Outlet	5.001	Hydro-Brake®

Invert Level (m)	32.900
Design Depth (m)	0.750
Design Flow (L/s)	1.0
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0049-1000-0750-1000



PP 132kV 4B

Type : Porous Paving

Dimensions

Exceedance Level (m)	33.700
Depth (m)	0.680
Base Level (m)	33.020
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	32.4
Porosity (%)	30
Length (m)	100.000
Long. Slope (1:X)	600.00
Width (m)	50.000
Total Volume (m³)	900.549

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	100
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	132kV 4B
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	5.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0

SW1

Type : Swale

Swale

Exceedance Level (m)	32.700
Depth (m)	0.500
Base Level (m)	32.200
Top Width (m)	2.500
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	100.000
Long. Slope (1:X)	350.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	75.000

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW1
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv5
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	ND1
Outlet Type	Orifice
Diameter (m)	0.027
Coefficient of Discharge	0.600
Invert Level (m)	32.200

Advanced

Swale

Porosity (%)	100

SW3

Type : Swale

Swale

Exceedance Level (m)	29.400
Depth (m)	0.550
Base Level (m)	28.850
Top Width (m)	2.700
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	74.000
Long. Slope (1:X)	480.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	65.120

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	ND2
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW3
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv7
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (3)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv6
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	9.000
Outlet Type	Orifice

Diameter (m)	0.028
Coefficient of Discharge	0.600
Invert Level (m)	28.850

Advanced

Swale

Porosity (%)	100

SW2

Type : Swale

Swale

Exceedance Level (m)	31.000
Depth (m)	0.500
Base Level (m)	30.500
Top Width (m)	2.500
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	64.500
Long. Slope (1:X)	350.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	48.375

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	ND1
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW2
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	ND2
Outlet Type	Orifice
Diameter (m)	0.027
Coefficient of Discharge	0.600
Invert Level (m)	30.500

Advanced

Swale

Porosity (%)	100

SW4

Type : Swale

Swale

Exceedance Level (m)	29.400
Depth (m)	0.500
Base Level (m)	28.900
Top Width (m)	2.500
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	130.000
Long. Slope (1:X)	380.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	97.500

Inlets

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW4
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv3
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv4
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	ND3
Outlet Type	Orifice
Diameter (m)	0.025
Coefficient of Discharge	0.600
Invert Level (m)	28.900

Advanced

Swale

Porosity (%)	100

SW5

Type : Swale

Swale

Exceedance Level (m)	28.150
Depth (m)	0.550
Base Level (m)	27.600
Top Width (m)	2.700
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	130.000
Long. Slope (1:X)	500.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	114.400

Inlets

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW5
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	ND3
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv9
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (3)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv8
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	10.000
Outlet Type	Orifice

Diameter (m)	0.028
Coefficient of Discharge	0.600
Invert Level (m)	27.600

Advanced

Swale

Porosity (%)	100

SW6

Type : Swale

Swale

Exceedance Level (m)	30.200
Depth (m)	0.500
Base Level (m)	29.700
Top Width (m)	2.500
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	122.000
Long. Slope (1:X)	300.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	91.500

Inlets

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW6
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv1
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv2
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	11.000
Outlet Type	Orifice

Diameter (m)	0.025
Coefficient of Discharge	0.600
Invert Level (m)	29.700

Advanced

Swale

Porosity (%)	100

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by:	Checked by:	Approved By:
	EE	AJ	RF
Report Details: Type: Connections Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Height (mm)	Side Slope (1:X)
5.000	2.914	Pipe	24.285		0.6	100		
5.001	40.558	Pipe	27.039		0.6	100		
9.000	20.586	Pipe	58.816		0.6	100		
ND1	1.154	No Delay						
ND2	1.038	No Delay						
10.000	3.573	Pipe	119.097		0.6	150		
ND3	3.079	No Delay						
11.000	73.996	Pipe	60.653		0.6	100		

Name	Upstream Cover Level (m)	Upstream Invert Level (m)	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
5.000	33.700	33.020	33.700	32.900	None		(None)	(None)
5.001	33.700	32.900	32.000	31.400	None	1.03	(None)	(None)
9.000	29.400	28.850	29.300	28.500	None	1.20	(None)	(None)
ND1								
ND2								
10.000	28.100	27.600	28.070	27.570	None	1.20	(None)	(None)
ND3								
11.000	30.607	29.700	29.080	28.480	None	0.91	(None)	(None)

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by:	Checked by:	Approved By:
	EE	AJ	RF
Report Details: Type: Inflow Summary Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
132kV 4B	PP 132kV 4B		Time of Concentration	0.500	100	0	100	0.500
CA Inv1	SW6		Time of Concentration	0.009	100	0	100	0.009
CA Inv2	SW6		Time of Concentration	0.009	100	0	100	0.009
CA Inv3	SW4		Time of Concentration	0.009	100	0	100	0.009
CA Inv4	SW4		Time of Concentration	0.009	100	0	100	0.009
CA Inv5	SW1		Time of Concentration	0.009	100	0	100	0.009
CA Inv6	SW3		Time of Concentration	0.009	100	0	100	0.009
CA Inv7	SW3		Time of Concentration	0.009	100	0	100	0.009
CA Inv8	SW5		Time of Concentration	0.009	100	0	100	0.009
CA Inv9	SW5		Time of Concentration	0.009	100	0	100	0.009
CASW1	SW1		Time of Concentration	0.036	100	0	100	0.036
CASW2	SW2		Time of Concentration	0.020	100	0	100	0.020
CASW3	SW3		Time of Concentration	0.023	100	0	100	0.023
CASW4	SW4		Time of Concentration	0.039	100	0	100	0.039
CASW5	SW5		Time of Concentration	0.042	100	0	100	0.042
CASW6	SW6		Time of Concentration	0.037	100	0	100	0.037
TOTAL		**0.0**		**0.777**				**0.777**

FEH4B: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC4B	FEH4B: 2 years: +0 %: 7200 mins: Summer	33.700	32.900	33.191	0.291	0.000	0.8	280.480	Surcharged
OF4B	FEH4B: 2 years: +0 %: 7200 mins: Summer		31.400	31.418	0.018		0.8	280.477	OK
OFSW1	FEH4B: 2 years: +0 %: 360 mins: Winter		28.500	28.521	0.021		0.7	25.740	OK
OFSW2	FEH4B: 2 years: +0 %: 360 mins: Winter		27.570	27.592	0.022		0.8	26.558	OK
OFSW6	FEH4B: 2 years: +0 %: 240 mins: Summer		28.480	28.499	0.019		0.6	12.410	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH4B: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC4B	FEH4B: 30 years: +0 %: 7200 mins: Winter	33.700	32.900	33.294	0.394	0.000	0.8	495.996	Surcharged
OF4B	FEH4B: 30 years: +0 %: 7200 mins: Summer		31.400	31.418	0.018		0.8	496.226	OK
OFSW1	FEH4B: 30 years: +0 %: 720 mins: Winter		28.500	28.523	0.023		0.9	64.295	OK
OFSW2	FEH4B: 30 years: +0 %: 600 mins: Winter		27.570	27.594	0.024		0.9	56.648	OK
OFSW6	FEH4B: 30 years: +0 %: 180 mins: Winter		28.480	28.501	0.021		0.8	13.286	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH4B: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC4B	FEH4B: 30 years: +40 %: 8640 mins: Winter	33.700	32.900	33.394	0.494	0.000	0.8	668.974	Surcharged
OF4B	FEH4B: 30 years: +40 %: 8640 mins: Winter		31.400	31.418	0.018		0.8	668.956	OK
OFSW1	FEH4B: 30 years: +40 %: 960 mins: Winter		28.500	28.524	0.024		1.0	95.908	OK
OFSW2	FEH4B: 30 years: +40 %: 960 mins: Winter		27.570	27.596	0.026		1.0	98.733	OK
OFSW6	FEH4B: 30 years: +40 %: 240 mins: Winter		28.480	28.502	0.022		0.8	19.768	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH4B: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC4B	FEH4B: 100 years: +0 %: 2880 mins: Winter	33.700	32.900	33.437	0.537	0.000	0.8	247.790	Flood Risk
OF4B	FEH4B: 100 years: +0 %: 2880 mins: Winter		31.400	31.418	0.018		0.8	247.768	OK
OFSW1	FEH4B: 100 years: +0 %: 960 mins: Winter		28.500	28.524	0.024		1.0	96.885	OK
OFSW2	FEH4B: 100 years: +0 %: 960 mins: Winter		27.570	27.596	0.026		1.1	99.482	OK
OFSW6	FEH4B: 100 years: +0 %: 240 mins: Winter		28.480	28.502	0.022		0.8	19.244	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH4B: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC4B	FEH4B: 100 years: +45 %: 2880 mins: Winter	33.700	32.900	33.610	0.710	0.000	1.0	285.538	Flood Risk
OF4B	FEH4B: 100 years: +45 %: 2880 mins: Winter		31.400	31.419	0.019		1.0	285.514	OK
OFSW1	FEH4B: 100 years: +45 %: 1440 mins: Winter		28.500	28.526	0.026		1.2	161.741	OK
OFSW2	FEH4B: 100 years: +45 %: 1440 mins: Winter		27.570	27.597	0.027		1.2	166.782	OK
OFSW6	FEH4B: 100 years: +45 %: 720 mins: Summer		28.480	28.503	0.023		0.9	61.888	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH4B: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 4B	FEH4B: 2 years: +0 %: 10080 mins: Summer	33.218	33.192	0.031	0.172	2.1	141.743	0.000		0.9	328.034		OK
SW1	FEH4B: 2 years: +0 %: 180 mins: Summer	32.505	32.395	0.019	0.195	3.4	6.153	0.000	0.1	0.6	9.693		OK
SW3	FEH4B: 2 years: +0 %: 360 mins: Winter	29.077	29.077	0.073	0.227	1.8	9.296	0.000	0.1	0.7	25.762		OK
SW2	FEH4B: 2 years: +0 %: 360 mins: Winter	30.698	30.690	0.014	0.190	1.2	4.992	0.000	0.1	0.6	17.334		OK
SW4	FEH4B: 2 years: +0 %: 240 mins: Summer	29.265	29.119	0.023	0.219	3.6	9.017	0.000	0.1	0.6	12.581		OK
SW5	FEH4B: 2 years: +0 %: 360 mins: Winter	27.882	27.846	0.022	0.246	2.4	13.582	0.000	0.1	0.8	26.581		OK
SW6	FEH4B: 2 years: +0 %: 240 mins: Summer	30.128	29.931	0.021	0.231	3.5	8.405	0.000	0.1	0.6	12.439		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH4B: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 4B	FEH4B: 30 years: +0 %: 2880 mins: Winter	33.325	33.318	0.138	0.298	6.2	328.987	0.000		0.9	218.457		OK
SW1	FEH4B: 30 years: +0 %: 120 mins: Winter	32.514	32.504	0.028	0.304	6.6	15.314	0.000	0.1	0.8	9.634		OK
SW3	FEH4B: 30 years: +0 %: 720 mins: Winter	29.197	29.197	0.193	0.347	2.2	21.231	0.000	0.1	0.9	64.317		OK
SW2	FEH4B: 30 years: +0 %: 480 mins: Winter	30.784	30.784	0.100	0.284	1.7	11.486	0.000	0.1	0.8	36.305		OK
SW4	FEH4B: 30 years: +0 %: 180 mins: Winter	29.274	29.236	0.032	0.336	6.3	21.801	0.000	0.1	0.7	13.149		OK
SW5	FEH4B: 30 years: +0 %: 600 mins: Winter	27.961	27.961	0.101	0.361	3.2	31.152	0.000	0.1	0.9	56.675		OK
SW6	FEH4B: 30 years: +0 %: 180 mins: Winter	30.136	30.055	0.029	0.355	6.0	20.478	0.000	0.2	0.8	13.332		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH4B: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 4B	FEH4B: 30 years: +40 %: 2880 mins: Winter	33.430	33.421	0.243	0.401	8.7	485.302	0.000		0.9	246.849	765	OK
SW1	FEH4B: 30 years: +40 %: 180 mins: Winter	32.564	32.564	0.078	0.364	6.9	22.934	0.000	0.1	0.9	16.127		OK
SW3	FEH4B: 30 years: +40 %: 960 mins: Winter	29.277	29.277	0.273	0.427	2.4	31.430	0.000	0.1	1.0	95.930		OK
SW2	FEH4B: 30 years: +40 %: 720 mins: Winter	30.844	30.844	0.160	0.344	1.8	16.882	0.000	0.1	0.9	57.197		OK
SW4	FEH4B: 30 years: +40 %: 240 mins: Winter	29.301	29.301	0.059	0.401	7.1	32.432	0.000	0.1	0.8	19.532		OK
SW5	FEH4B: 30 years: +40 %: 960 mins: Winter	28.034	28.034	0.174	0.434	3.2	46.076	0.000	0.1	1.0	98.760		OK
SW6	FEH4B: 30 years: +40 %: 240 mins: Winter	30.138	30.125	0.032	0.425	6.8	30.477	0.000	0.2	0.8	19.817		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH4B: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 4B	FEH4B: 100 years: +0 %: 2880 mins: Winter	33.447	33.438	0.260	0.418	9.1	510.707	0.000		0.9	250.953	1280	OK
SW1	FEH4B: 100 years: +0 %: 180 mins: Winter	32.547	32.548	0.062	0.348	6.3	20.686	0.000	0.1	0.9	15.666		OK
SW3	FEH4B: 100 years: +0 %: 960 mins: Winter	29.281	29.281	0.277	0.431	2.5	32.092	0.000	0.1	1.0	96.909		OK
SW2	FEH4B: 100 years: +0 %: 960 mins: Winter	30.844	30.844	0.160	0.344	1.6	16.838	0.000	0.1	0.9	62.036		OK
SW4	FEH4B: 100 years: +0 %: 240 mins: Winter	29.285	29.285	0.043	0.385	6.5	29.518	0.000	0.1	0.8	19.041		OK
SW5	FEH4B: 100 years: +0 %: 960 mins: Winter	28.039	28.039	0.179	0.439	3.3	47.046	0.000	0.1	1.1	99.509		OK
SW6	FEH4B: 100 years: +0 %: 240 mins: Winter	30.137	30.107	0.030	0.407	6.2	27.701	0.000	0.2	0.8	19.293		OK

FEH4B: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 4B	FEH4B: 100 years: +45 %: 2880 mins: Winter	33.623	33.611	0.436	0.591	13.2	773.578	0.000		1.0	289.827		OK
SW1	FEH4B: 100 years: +45 %: 240 mins: Winter	32.626	32.627	0.141	0.427	7.4	32.363	0.000	0.1	1.0	23.521		OK
SW3	FEH4B: 100 years: +45 %: 1440 mins: Winter	29.398	29.398	0.394	0.548	2.7	50.684	0.000	0.1	1.2	161.762	875	OK
SW2	FEH4B: 100 years: +45 %: 960 mins: Winter	30.932	30.932	0.248	0.432	2.1	26.372	0.000	0.1	1.0	89.313	255	OK
SW4	FEH4B: 100 years: +45 %: 720 mins: Summer	29.373	29.373	0.131	0.473	6.7	47.114	0.000	0.1	0.9	61.867		OK
SW5	FEH4B: 100 years: +45 %: 1440 mins: Winter	28.147	28.147	0.287	0.547	3.5	74.421	0.000	0.1	1.2	166.810	700	OK
SW6	FEH4B: 100 years: +45 %: 720 mins: Summer	30.196	30.197	0.090	0.497	6.4	43.928	0.000	0.1	0.9	61.932		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Inflows Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

400kV 5A

Type : Catchment Area

Area (ha)	3.50

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

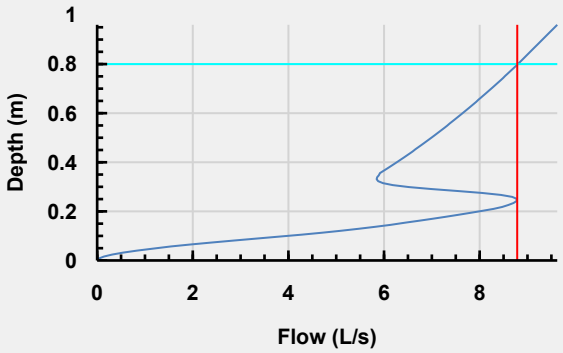
East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by:	Checked by:	Approved By:
	EE	AJ	RMF
Report Details: Type: Junctions Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
FC5A	Manhole	622363.002	293860.361	40.700	0.800	39.900	Circular	3.000
OF5A	Simple Junction	622348.108	293859.755					

Name	Lock
FC5A	None
OF5A	

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
FC5A	Outlet	6.001	Hydro-Brake®
	Invert Level (m)	39.900	
	Design Depth (m)	0.800	
	Design Flow (L/s)	8.8	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0134-8800-0800-8800	



PP SS 400kV 5A

Type : Porous Paving

Dimensions

Exceedance Level (m)	40.700
Depth (m)	0.650
Base Level (m)	40.050
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	32.4
Porosity (%)	30
Length (m)	266.325
Long. Slope (1:X)	650.00
Width (m)	132.571
Total Volume (m³)	6040.794

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	400kV 5A
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	6.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Connections Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
6.000	2.840	Pipe	56.810		0.6	150	40.700	40.050
6.001	14.906	Pipe	14.906		0.6	150	40.700	39.900

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
6.000	40.700	40.000	All		(None)	(None)
6.001	39.500	38.900	None	8.8	(None)	(None)

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Inflow Summary Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
400kV 5A	PP SS 400kV 5A		Time of Concentration	3.50	100	0	100	3.50
TOTAL		**0.0**		**3.50**				**3.50**

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH5A: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC5A	FEH5A: 2 years: +0 %: 10080 mins: Summer	40.700	39.900	40.121	0.221	0.000	7.3	2183.104	Surcharged
OF5A	FEH5A: 2 years: +0 %: 10080 mins: Summer		38.900	38.940	0.040		7.3	2183.096	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH5A: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC5A	FEH5A: 30 years: +0 %: 1440 mins: Summer	40.700	39.900	40.217	0.317	0.000	8.8	1189.018	Surcharged
OF5A	FEH5A: 30 years: +0 %: 5760 mins: Summer		38.900	38.944	0.044		8.8	3119.067	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH5A: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC5A	FEH5A: 30 years: +40 %: 8640 mins: Winter	40.700	39.900	40.372	0.472	0.000	8.8	4930.987	Surcharged
OF5A	FEH5A: 30 years: +40 %: 10080 mins: Summer		38.900	38.944	0.044		8.8	5176.133	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH5A: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC5A	FEH5A: 100 years: +0 %: 8640 mins: Winter	40.700	39.900	40.354	0.454	0.000	8.8	4703.048	Surcharged
OF5A	FEH5A: 100 years: +0 %: 8640 mins: Winter		38.900	38.944	0.044		8.8	4703.036	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH5A: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC5A	FEH5A: 100 years: +45 %: 10080 mins: Winter	40.700	39.900	40.496	0.596	0.000	8.8	6930.451	Flood Risk
OF5A	FEH5A: 100 years: +45 %: 10080 mins: Winter		38.900	38.944	0.044		8.8	6930.433	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH5A: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP SS 400kV 5A	FEH5A: 2 years: +0 %: 10080 mins: Summer	40.526	40.129	0.067	0.079	14.9	1073.365	0.000	7.3	2183.265		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Designed by:	Checked by:	Approved By:
		EE	AJ	RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH5A: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP SS 400kV 5A	FEH5A: 30 years: +0 %: 2160 mins: Summer	40.614	40.228	0.154	0.178	84.4	2122.439	0.000	8.8	1763.677		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH5A: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP SS 400kV 5A	FEH5A: 30 years: +40 %: 2880 mins: Summer	40.690	40.386	0.230	0.336	93.6	3321.840	0.000	8.8	1905.095	770	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH5A: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP SS 400kV 5A	FEH5A: 100 years: +0 %: 2880 mins: Summer	40.704	40.402	0.245	0.352	97.8	3494.264	0.000	8.8	1936.272	1195	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH5A: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP SS 400kV 5A	FEH5A: 100 years: +45 %: 2880 mins: Winter	40.867	40.563	0.407	0.513	91.5	5291.097	0.000	8.8	2261.409		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Inflows Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

132kV 7F

Type : Catchment Area

Area (ha)	0.75

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

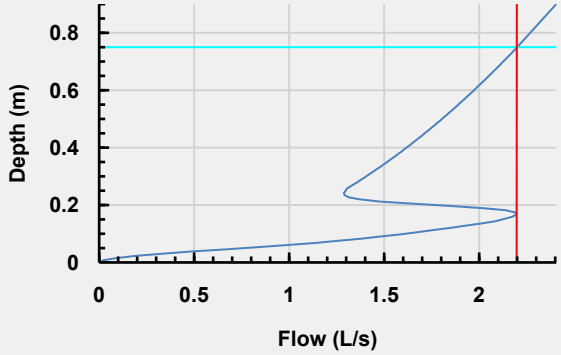
East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
FC7F	Manhole	624228.645	295874.378	42.250	0.750	41.500	Circular	3.000
OF7F	Simple Junction	624232.431	295835.568					

Name	Lock
FC7F	None
OF7F	

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
FC7F	Outlet	7.001	Hydro-Brake®
	Invert Level (m)	41.500	
	Design Depth (m)	0.750	
	Design Flow (L/s)	2.2	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0072-2200-0750-2200	



East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by:	Checked by:	Approved By:
	EE	AJ	RMF
Report Details: Type: Stormwater Controls Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

PP 132kV 7F

Type : Porous Paving

Dimensions

Exceedance Level (m)	42.250
Depth (m)	0.680
Base Level (m)	41.570
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	32.4
Porosity (%)	30
Length (m)	122.474
Long. Slope (1:X)	600.00
Width (m)	61.237
Total Volume (m³)	1351.515

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	132kV 7F
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	7.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Connections Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
7.000	2.871	Pipe	41.010		0.6	150	42.250	41.570
7.001	38.994	Pipe	111.411		0.6	150	42.250	41.500

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
7.000	42.250	41.500	None		(None)	(None)
7.001	41.750	41.150	None	2.2	(None)	(None)

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Inflow Summary Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
132kV 7F	PP 132kV 7F		Time of Concentration	0.75	100	0	100	0.75
TOTAL		**0.0**		**0.75**				**0.75**

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH7F: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC7F	FEH7F: 2 years: +0 %: 4320 mins: Summer	42.250	41.500	41.707	0.207	0.000	2.2	339.619	Surcharged
OF7F	FEH7F: 2 years: +0 %: 2880 mins: Summer		41.150	41.186	0.036		2.2	293.629	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH7F: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC7F	FEH7F: 30 years: +0 %: 7200 mins: Summer	42.250	41.500	41.836	0.336	0.000	2.2	744.414	Surcharged
OF7F	FEH7F: 30 years: +0 %: 7200 mins: Summer		41.150	41.186	0.036		2.2	744.410	OK

FEH7F: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC7F	FEH7F: 30 years: +40 %: 7200 mins: Summer	42.250	41.500	41.928	0.428	0.000	2.2	1040.082	Surcharged
OF7F	FEH7F: 30 years: +40 %: 10080 mins: Summer		41.150	41.186	0.036		2.2	1138.177	OK

FEH7F: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC7F	FEH7F: 100 years: +0 %: 2160 mins: Winter	42.250	41.500	41.981	0.481	0.000	2.2	378.769	Flood Risk
OF7F	FEH7F: 100 years: +0 %: 10080 mins: Summer		41.150	41.186	0.036		2.2	1059.599	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH7F: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC7F	FEH7F: 100 years: +45 %: 7200 mins: Winter	42.250	41.500	42.071	0.571	0.000	2.2	1293.508	Flood Risk
OF7F	FEH7F: 100 years: +45 %: 10080 mins: Winter		41.150	41.186	0.036		2.2	1534.553	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH7F: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 7F	FEH7F: 2 years: +0 %: 600 mins: Winter	41.830	41.704	0.056	0.134	15.7	182.744	0.000	2.2	119.469		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH7F: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 7F	FEH7F: 30 years: +0 %: 1440 mins: Summer	41.873	41.869	0.099	0.299	24.9	449.390	0.000	2.3	221.742		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH7F: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 7F	FEH7F: 30 years: +40 %: 2160 mins: Winter	41.971	41.965	0.197	0.395	16.3	667.633	0.000	2.3	374.597		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH7F: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 7F	FEH7F: 100 years: +0 %: 2160 mins: Winter	41.987	41.981	0.213	0.411	17.1	704.516	0.000	2.3	381.545	315	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH7F: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 7F	FEH7F: 100 years: +45 %: 2880 mins: Winter	42.152	42.144	0.378	0.574	19.5	1074.249	0.000	2.3	586.432		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Inflows Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

132kV 10C

Type : Catchment Area

Area (ha)	0.50

Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by:	Checked by:	Approved By:
	EE	AJ	RMF
Report Details: Type: Junctions Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

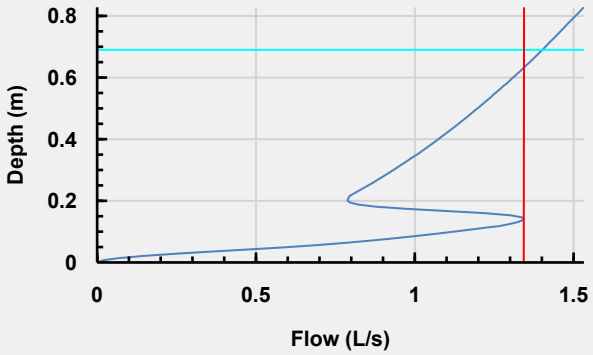
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
FC10C	Manhole	629874.462	295265.207	33.440	0.690	32.750	Circular	3.000
OF10C	Simple Junction	629816.694	295265.579					

Name	Lock
FC10C	None
OF10C	

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
FC10C	Outlet	8.001	Hydro-Brake®

Invert Level (m)	32.750
Design Depth (m)	0.690
Design Flow (L/s)	1.4
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0059-1400-0690-1400



East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by:	Checked by:	Approved By:
	EE	AJ	RMF
Report Details: Type: Stormwater Controls Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

PP 132kV 10C

Type : Porous Paving

Dimensions

Exceedance Level (m)	33.440
Depth (m)	0.640
Base Level (m)	32.800
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	32.4
Porosity (%)	30
Length (m)	99.000
Long. Slope (1:X)	650.00
Width (m)	50.502
Total Volume (m³)	841.177

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	132kV 10C
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	8.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by:	Checked by:	Approved By:
	EE	AJ	RMF
Report Details: Type: Connections Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
8.000	6.305	Pipe	126.102		0.6	150	33.440	32.800
8.001	57.769	Pipe	144.424		0.6	150	33.440	32.750

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
8.000	33.440	32.750	None		(None)	(None)
8.001	32.900	32.350	None	1.4	(None)	(None)

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Inflow Summary Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
132kV 10C	PP 132kV 10C		Time of Concentration	0.50	100	0	100	0.50
TOTAL		**0.0**		**0.50**				**0.50**

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH10C: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC10C	FEH10C: 2 years: +0 %: 360 mins: Summer	33.440	32.750	32.929	0.179	0.000	1.3	43.392	Surcharged
OF10C	FEH10C: 2 years: +0 %: 360 mins: Summer		32.350	32.380	0.030		1.3	43.315	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH10C: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC10C	FEH10C: 30 years: +0 %: 60 mins: Summer	33.440	32.750	32.959	0.209	0.000	1.3	6.228	Surcharged
OF10C	FEH10C: 30 years: +0 %: 1440 mins: Winter		32.350	32.380	0.030		1.3	138.225	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH10C: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC10C	FEH10C: 30 years: +40 %: 30 mins: Summer	33.440	32.750	32.960	0.210	0.000	1.3	2.886	Surcharged
OF10C	FEH10C: 30 years: +40 %: 1440 mins: Winter		32.350	32.380	0.030		1.3	156.950	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH10C: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC10C	FEH10C: 100 years: +0 %: 30 mins: Summer	33.440	32.750	32.947	0.197	0.000	1.3	3.227	Surcharged
OF10C	FEH10C: 100 years: +0 %: 1440 mins: Summer		32.350	32.380	0.030		1.3	159.299	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH10C: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC10C	FEH10C: 100 years: +45 %: 15 mins: Summer	33.440	32.750	32.949	0.199	0.000	1.3	1.440	Surcharged
OF10C	FEH10C: 100 years: +45 %: 1440 mins: Summer		32.350	32.380	0.030		1.3	186.436	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH10C: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 10C	FEH10C: 2 years: +0 %: 720 mins: Winter	33.001	32.945	0.048	0.145	9.0	122.221	0.000	1.4	87.114		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH10C: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 10C	FEH10C: 30 years: +0 %: 2160 mins: Winter	33.079	33.078	0.127	0.278	7.8	303.870	0.000	1.4	207.696		OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH10C: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 10C	FEH10C: 30 years: +40 %: 2160 mins: Winter	33.176	33.174	0.224	0.374	10.8	449.053	0.000	1.4	238.040	485	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

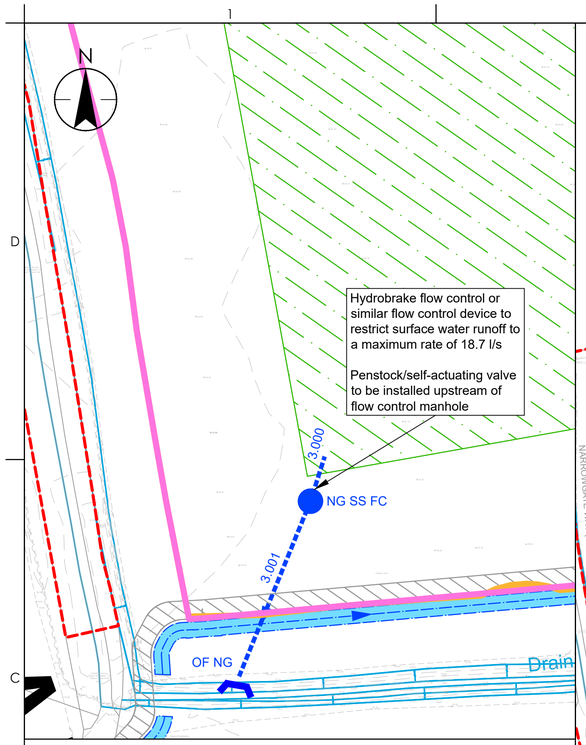
FEH10C: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 10C	FEH10C: 100 years: +0 %: 2160 mins: Winter	33.190	33.188	0.238	0.388	11.3	470.081	0.000	1.4	242.293	810	OK

East Pye Solar:	Date:		
East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		

FEH10C: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 10C	FEH10C: 100 years: +45 %: 2880 mins: Winter	33.355	33.352	0.403	0.552	13.0	717.175	0.000	1.4	377.137		OK



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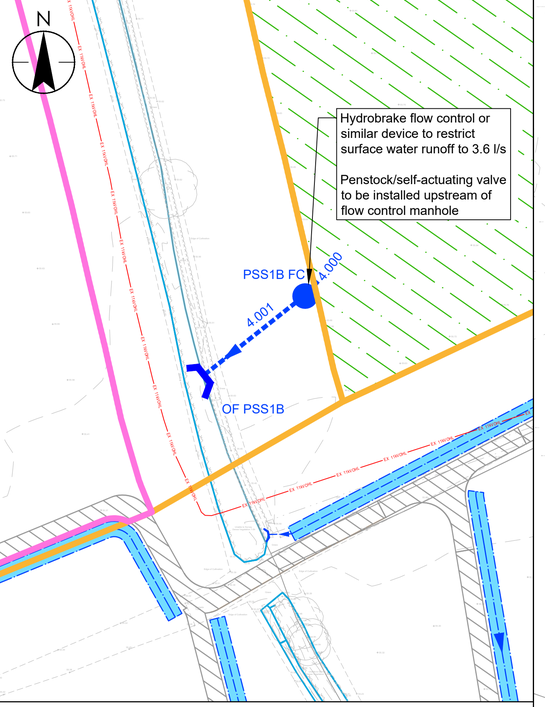

02 001 INSET B
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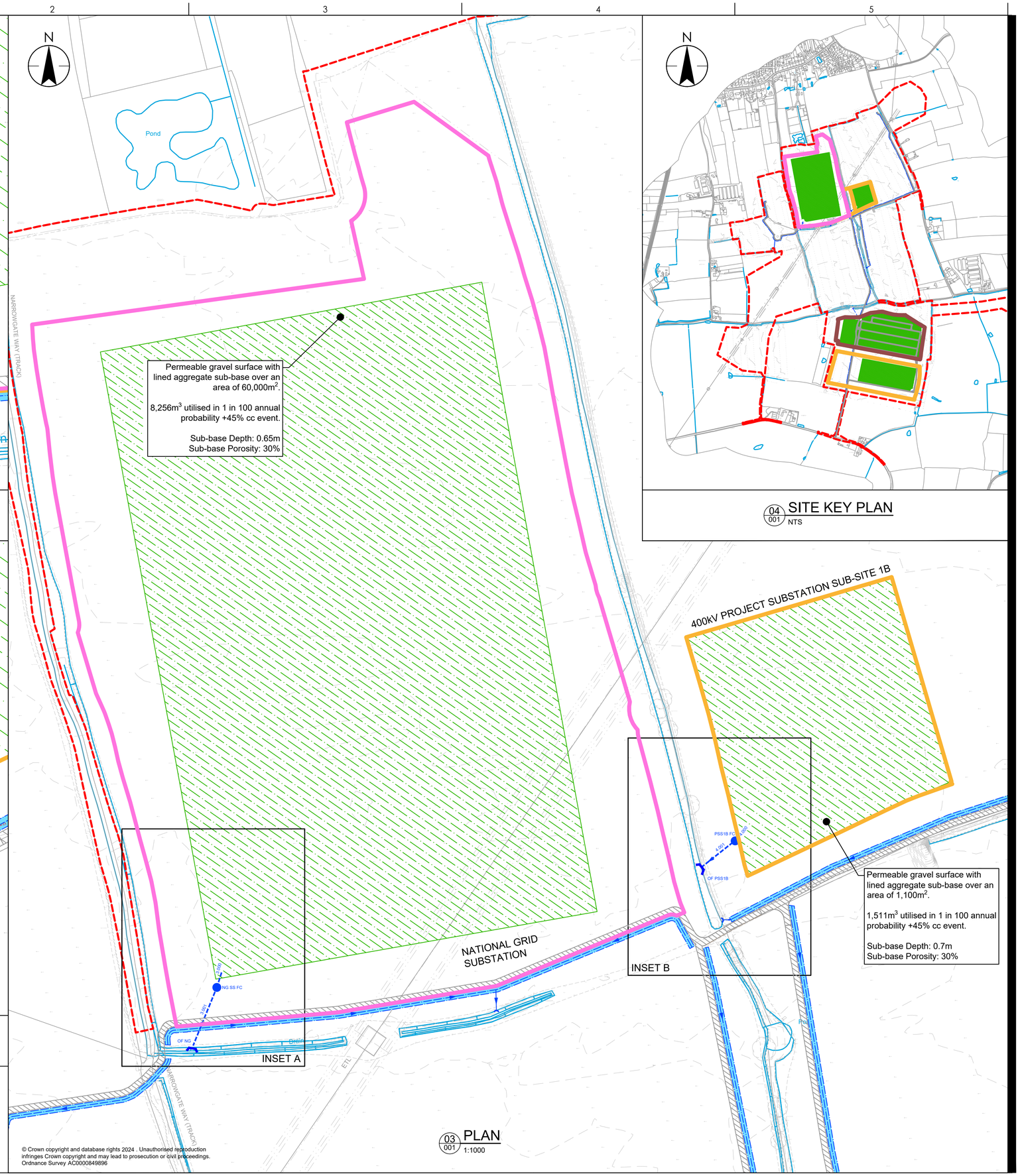
SCALE 1:1000



03 001 PLAN
1:1000

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04 001 SITE KEY PLAN
NTS

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- AGGREGATE SUB-BASE
- PROPOSED SWALE
- WORK 4 - NATIONAL GRID SUBSTATION
- WORK 6 - 132kV AND 400kV PROJECT SUBSTATIONS
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

Stantec

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www.stantec.com/uk

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Notes

UTILITIES NOTE: The position of any existing public or private sewers, utility services, plant or apparatus shown on this drawing is believed to be correct, but no warranty to this is expressed or implied. Other such plant or apparatus may also be present but not shown. The Contractor is therefore advised to undertake their own investigation where the presence of any existing sewers, services, plant or apparatus may affect their operations.

1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
2. TOPOGRAPHICAL SURVEY BASED ON DRAWING 66883NOLS-03 REV A, BY SURVEY SOLUTIONS, DATED 2024.10.04.
3. LAYOUT TAKEN FROM DRAWING DRAWING EAST PYE SOLAR FARM, BY ISLAND GREEN POWER UK, DATED 19.11.2025. BESS LAYOUT BASED ON UPDATED LAYOUT 11.11.2025.
4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.
5. SUB-STATION COMPOUNDS TO INCORPORATE BUNDS AT LOWEST POINTS TO CONTAIN SURFACE WATER RUNOFF AS REQUIRED.
6. ACCESS TRACKS WITHIN SUB-SITES AND THAT CONNECT ELEMENTS OF THE SCHEME (AND WHERE REQUIRED WITHIN BESS AND SUBSTATION COMPOUNDS) TO DRAIN TO SWALES OR FILTER DRAINS RUNNING PARALLEL WITH THE TRACKS.

Issued/Revision	By	Appd	
P02 SWALES ADDED	EE	-	2026.10.02
P01 FIRST ISSUE	EE	-	2026.03.04
	GD	EE	-	2026.03.04
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

S2 - FOR INFORMATION

This document is suitable only for the purpose noted above.
Use of this document for any other purpose is not permitted.

Client/Project Logo

Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT SURFACE WATER DRAINAGE NATIONAL GRID AND 400KV PROJECT SUBSTATION SUB-SITE 1B

Project No.	A1 Scale
333101678	AS SHOWN
Revision	**Drawing No.**
P02	**333101678-300.03-001**

Plotted: 02.10.2026 10:03:3 AM by: Rob Shorrock
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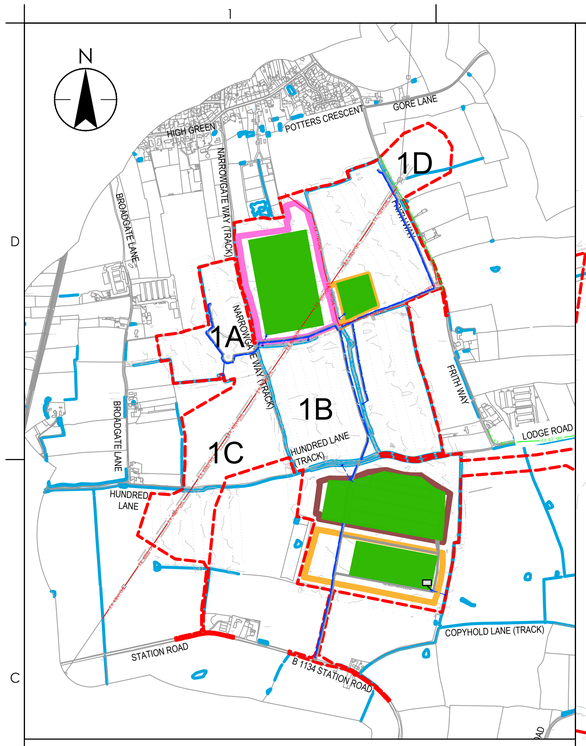
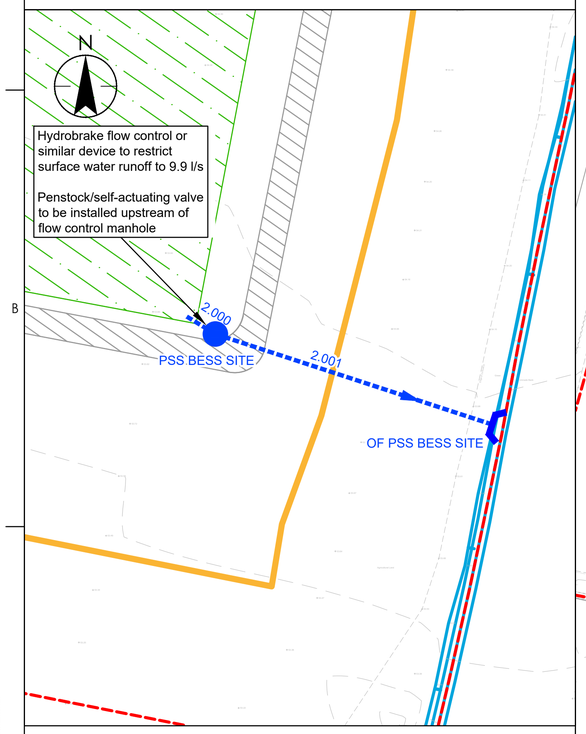


01/002 SITE KEY PLAN
NTS



02/002 INSET A
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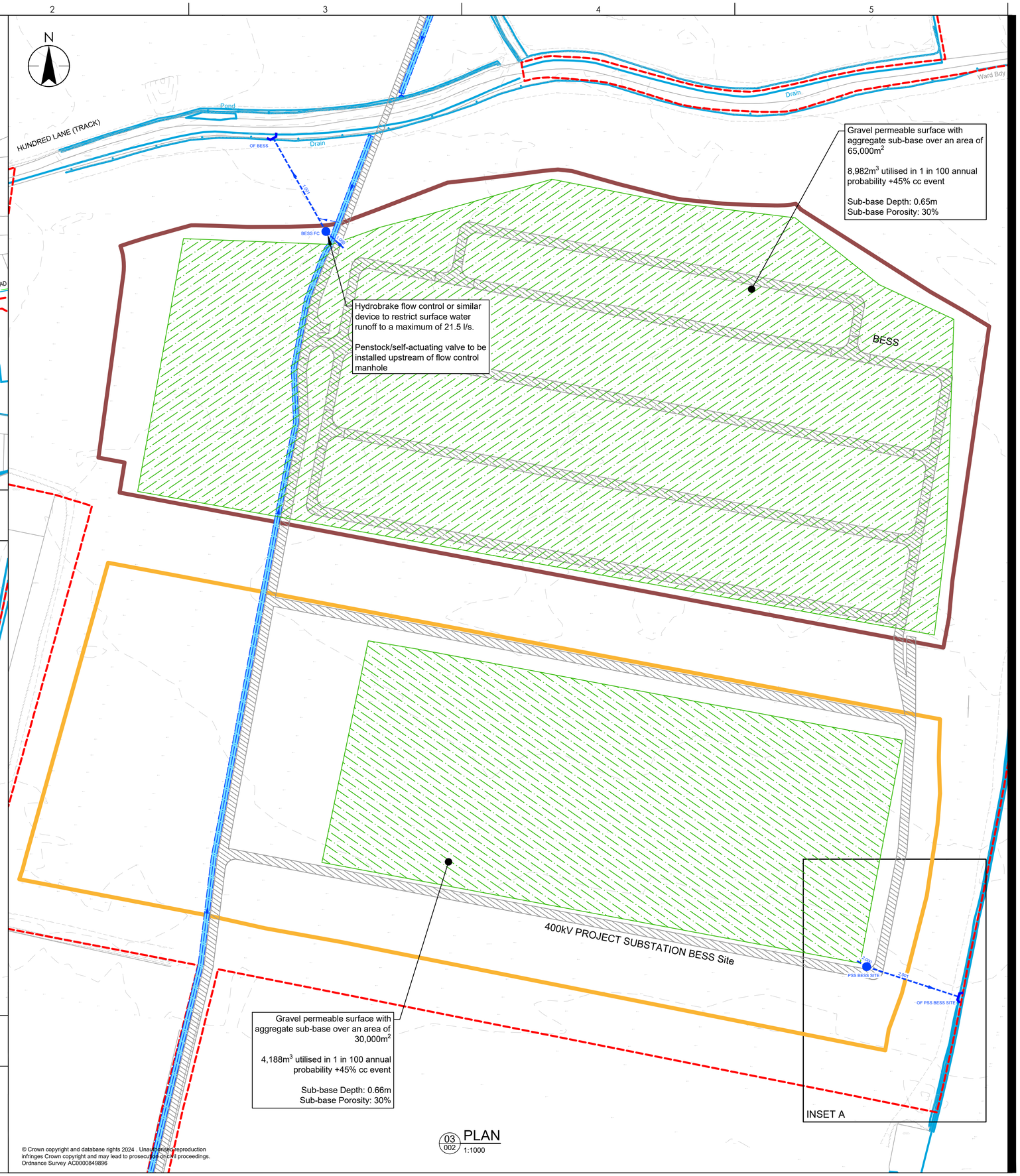
SCALE 1:500

0 20 40 60 80 100m
SCALE 1:1000



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03/002 PLAN
1:1000

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Notes

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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.
5. BESS FACILITY (AND WHERE APPROPRIATE SUBSTATION COMPOUNDS) TO INCORPORATE BUNDS AT LOWEST POINTS OF COMPOUND TO CONTAIN SURFACE AND FIREWATER RUNOFF.
6. ACCESS TRACKS WITHIN SUB-SITES AND THAT CONNECT ELEMENTS OF THE SCHEME (AND WHERE REQUIRED WITHIN BESS AND SUBSTATION COMPOUNDS) TO DRAIN TO SWALES OR FILTER DRAINS RUNNING PARALLEL WITH THE TRACKS.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- AGGREGATE SUB-BASE
- PROPOSED SWALE
- WORK 4 - NATIONAL GRID SUBSTATION
- WORK 6 - 132kV AND 400kV PROJECT SUBSTATIONS
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P02 SWALES ADDED	EE	-	2026.10.02
P01 FIRST ISSUE	EE	-	2026.03.04
Issued/Revision	By	Appd	YYYY.MM.DD
	GD	EE	-	2026.03.04
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

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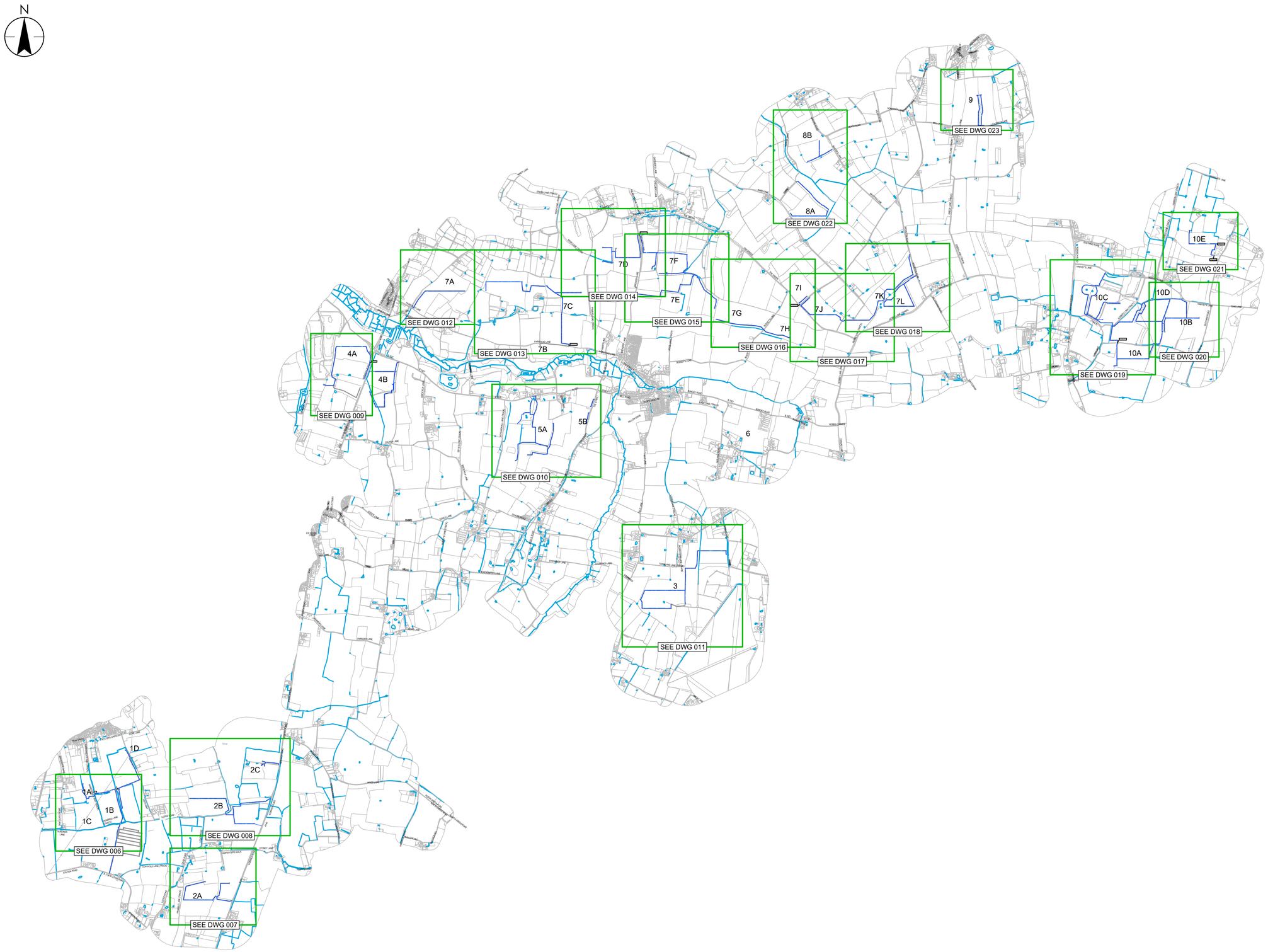
Client/Project Logo

Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT SURFACE WATER DRAINAGE BESS AND 400KV PROJECT SUBSTATION BESS SITE

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P02	**333101678-300.03-002**

Plotted: 02.10.2026 at 20/02/26 03:48:16 PM By: Rita Shymchak
File Name: C:\Users\rita.shymchak\Stantec\Projects\333101678\Design\333101678-300.03-002.dwg



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Plotted: 02/10/2026 10:02:34 PM By: Rob.Shurlock
C:\Work\333101678\Design\Drawings\333101678-300.03-003.dwg

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1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
2. TOPOGRAPHICAL SURVEY BASED ON DRAWING EAST PYE SOLAR FARM, BY ISLAND GREEN POWER UK, DATED 19.11.2025.
3. LAYOUT TAKEN FROM DRAWING DRAWING EAST PYE SOLAR FARM, BY ISLAND GREEN POWER UK, DATED 19.11.2025. BESS LAYOUT BASED ON UPDATED LAYOUT 11.11.2025.
4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- PROPOSED SWALE
- EXISTING WATERCOURSES

Issued/Revision	By	Appd	YYYY.MM.DD
P01 FIRST ISSUE	EE	-	2026.10.02
	GD	EE	2026.09.29
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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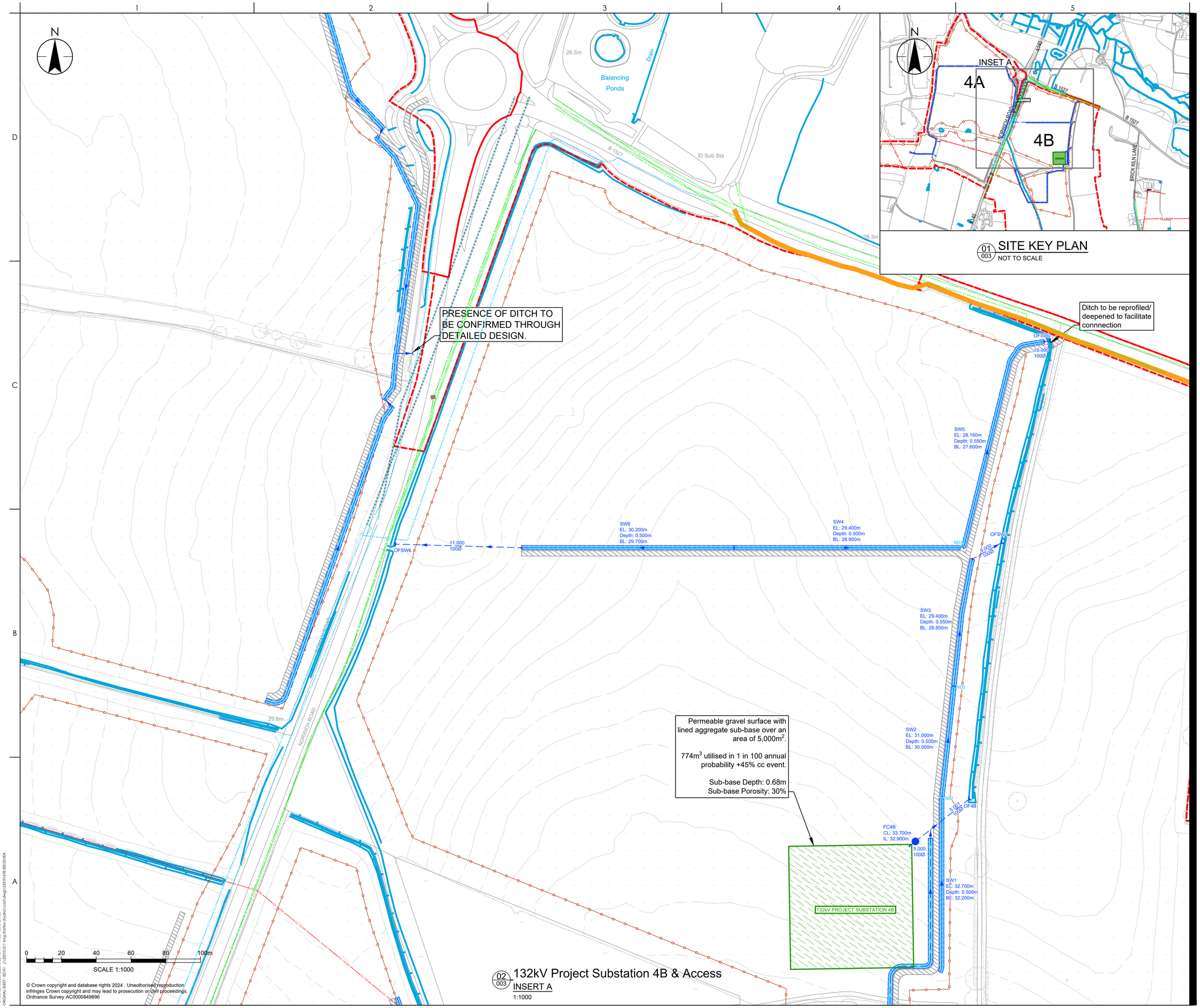
Client/Project
EAST PYE SOLAR Ltd.

Title
OVERALL CONCEPT ACCESS TRACK DRAINAGE

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-003**



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02/003 132kV Project Substation 4B & Access
INSERT A
1:1000

01/003 SITE KEY PLAN
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3. LAYOUT TAKEN FROM DRAWING DRAWING EAST PYE SOLAR FARM, BY ISLAND GREEN POWER UK, DATED 19.11.2025. BESS LAYOUT BASED ON UPDATED LAYOUT 11.11.2025.
4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.
5. SUB-STATION COMPOUNDS TO INCORPORATE BUNDS AT LOWEST POINTS TO CONTAIN SURFACE WATER RUNOFF AS REQUIRED.
6. ACCESS TRACKS WITHIN SUB-SITES AND THAT CONNECT ELEMENTS OF THE SCHEME (AND WHERE REQUIRED WITHIN BESS AND SUBSTATION COMPOUNDS) TO DRAIN TO SWALES OR FILTER DRAINS RUNNING PARALLEL WITH THE TRACKS.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- AGGREGATE SUB-BASE
- PROPOSED SWALE
- FENCING
- WORK 6 - 132kV AND 400kV PROJECT SUBSTATIONS
- ORIFICE FLOW CONTROL
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE		EE	-	2026.10.02
Issued/Revision		By	Appd	YYYY.MM.DD
	GD	EE	-	2026.09.29
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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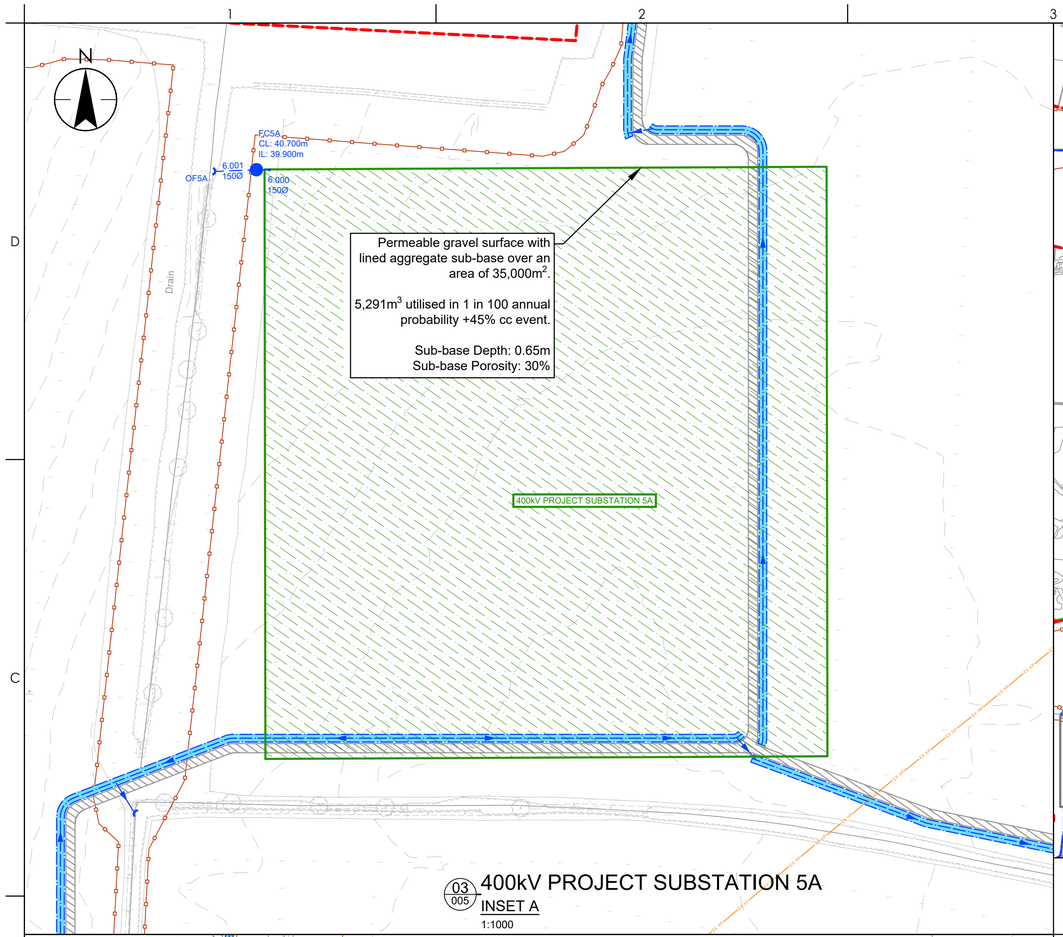
Client/Project
EAST PYE SOLAR Ltd.

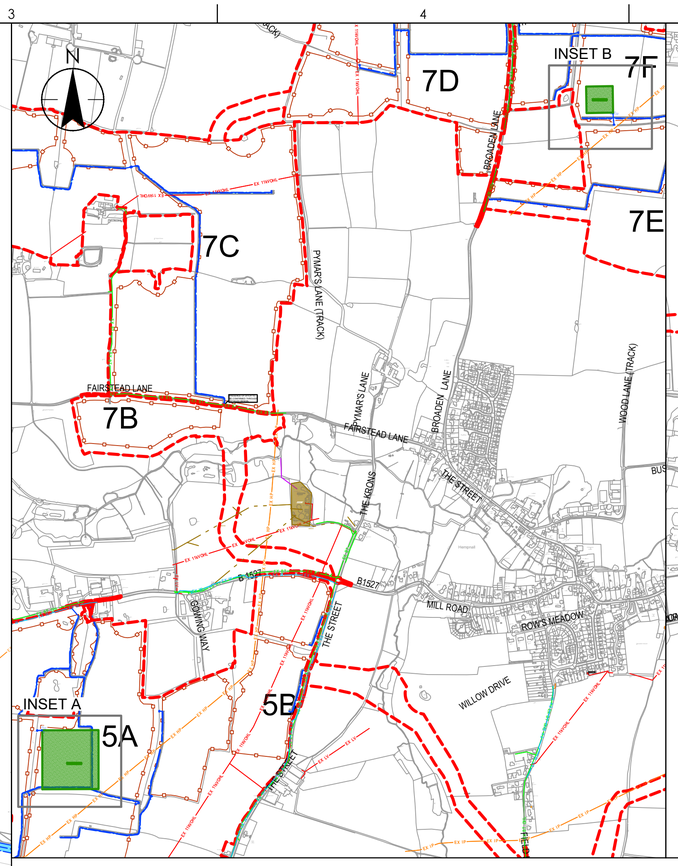
Title
OUTLINE SURFACE WATER DRAINAGE
400kV PROJECT SUBSTATION & ACCESS
SUB-SITE 4B

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	333101678-300.03-004

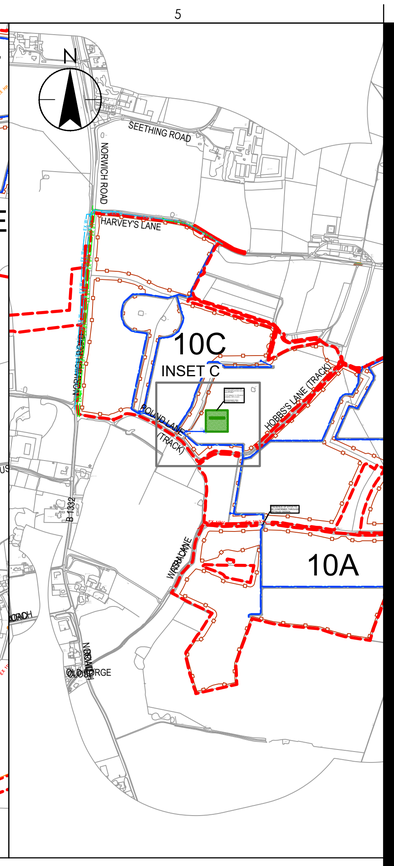
Plotted: 02.10.2026 10:02:43 AM By: Ria Shortt
File: C:\Users\ria.shortt\Desktop\Local\Temp\acad-Dwg\333101678-300.03-004.dwg



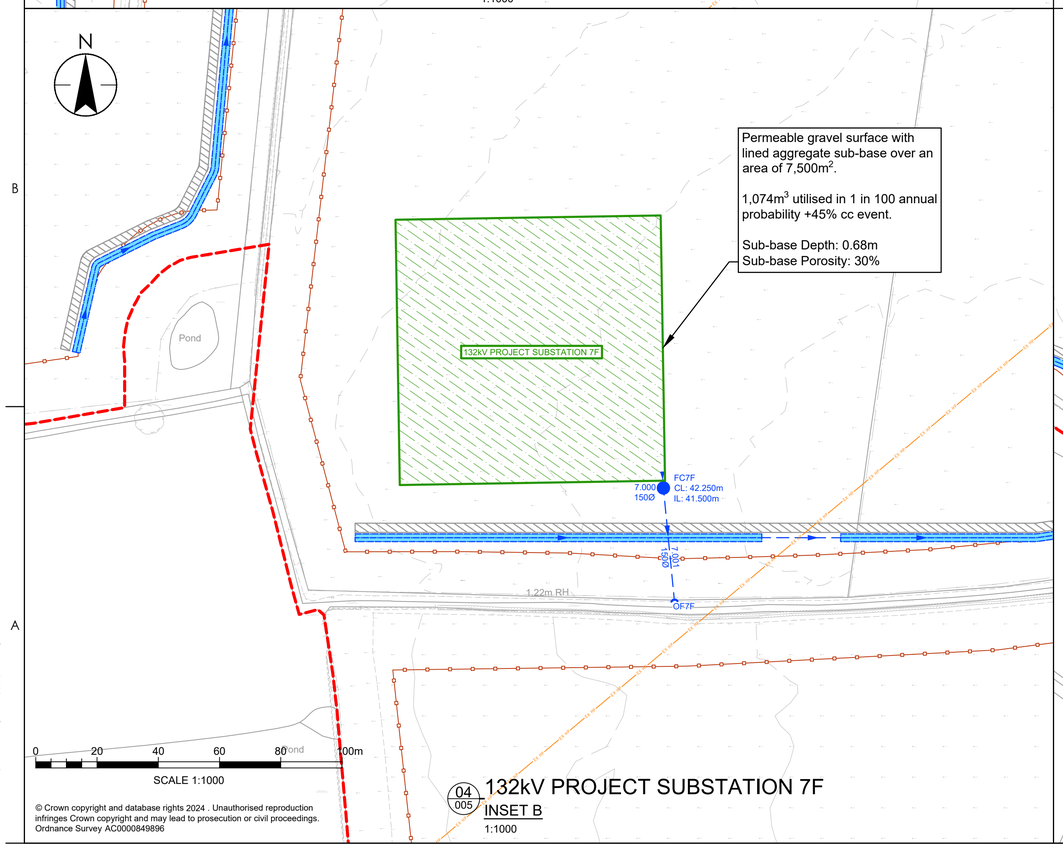
03 005 400kV PROJECT SUBSTATION 5A
INSET A
1:1000



01 005 SITE KEY PLAN
NOT TO SCALE



02 005 SITE KEY PLAN
NOT TO SCALE



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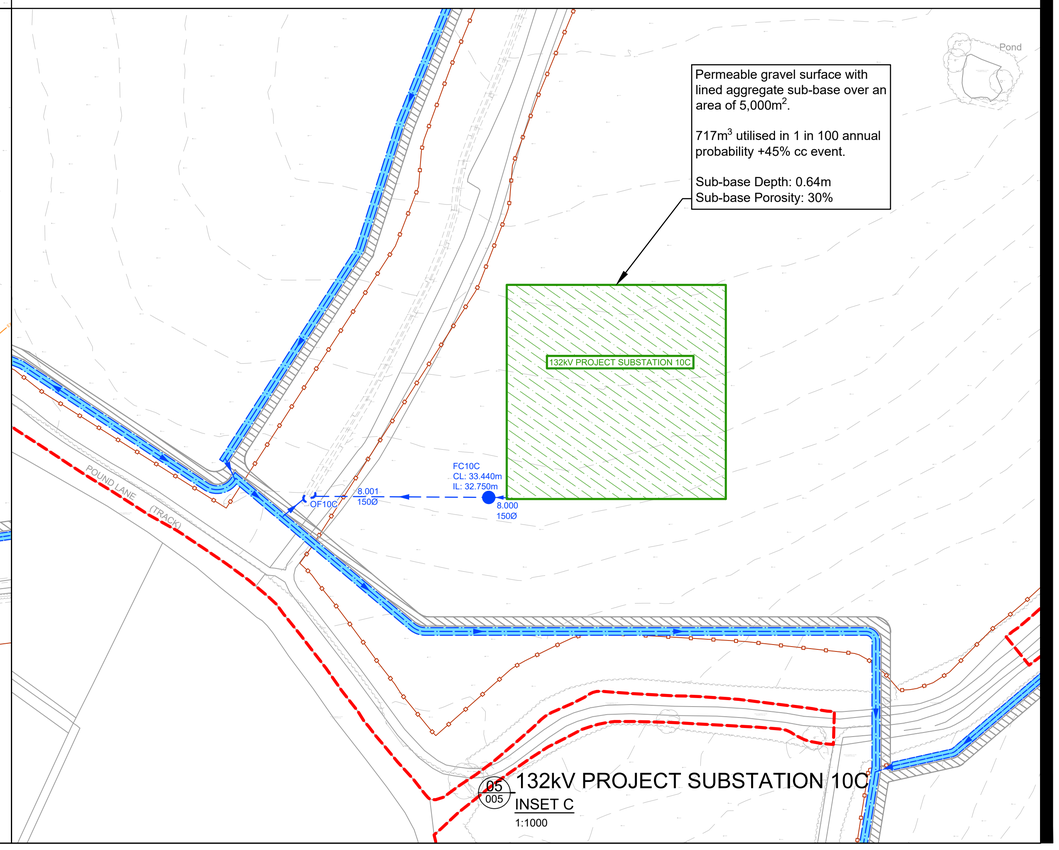
04 005 132kV PROJECT SUBSTATION 7F
INSET B
1:1000



05 005 132kV PROJECT SUBSTATION 10C
INSET C
1:1000

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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.
5. SUB-STATION COMPOUNDS TO INCORPORATE BUNDS AT LOWEST POINTS TO CONTAIN SURFACE WATER RUNOFF AS REQUIRED.
6. ACCESS TRACKS WITHIN SUB-SITES AND THAT CONNECT ELEMENTS OF THE SCHEME (AND WHERE REQUIRED WITHIN BESS AND SUBSTATION COMPOUNDS) TO DRAIN TO SWALES OR FILTER DRAINS RUNNING PARALLEL WITH THE TRACKS.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- AGGREGATE SUB-BASE
- PROPOSED SWALE
- FENCING
- WORK 6 - 132kV AND 400kV PROJECT SUBSTATIONS
- ORIFICE FLOW CONTROL
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE		EE	-	2026.10.02
Issued/Revision		By	Appd	YYYY.MM.DD
	GD	EE	-	2026.09.29
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

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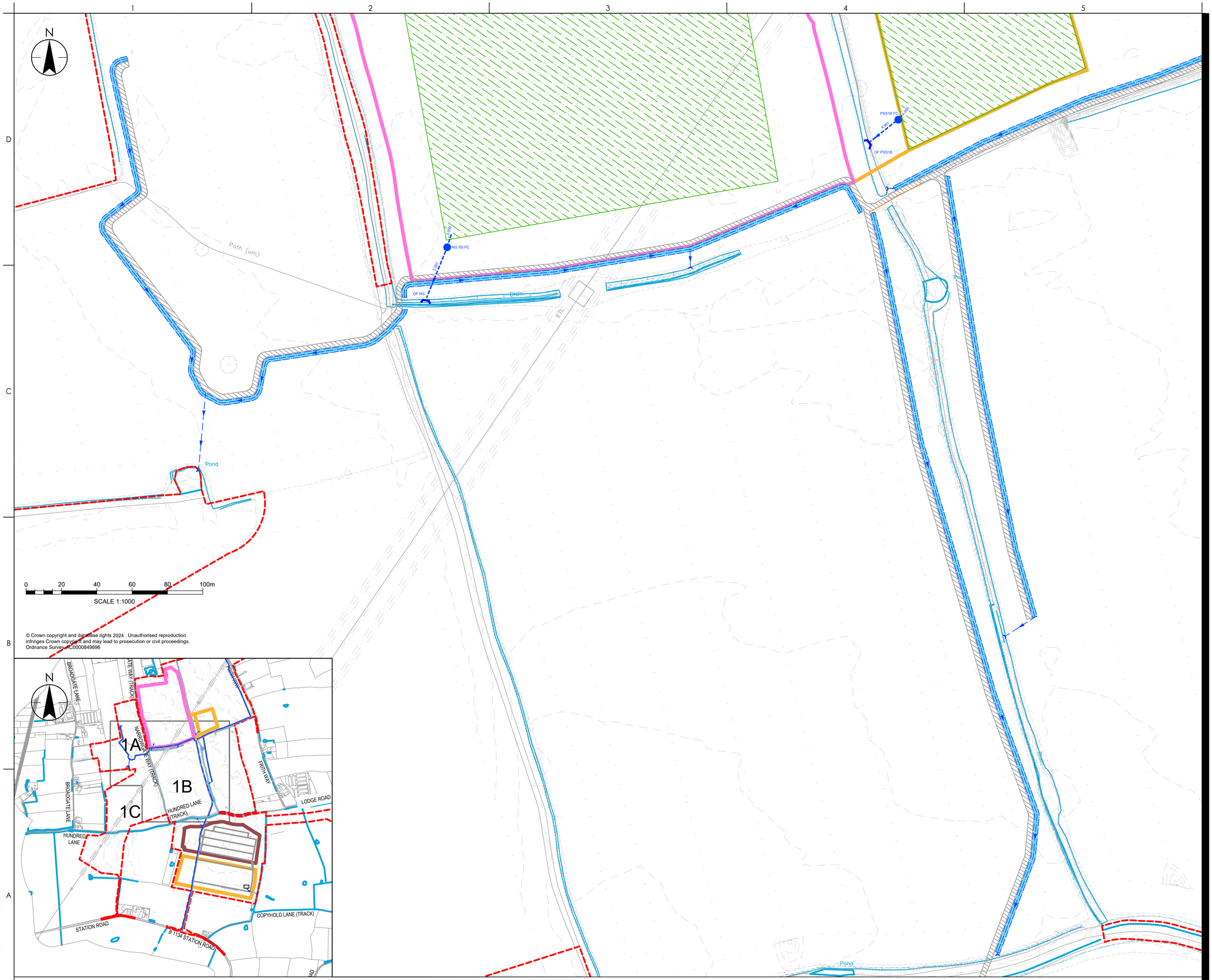
Client/Project
EAST PYE SOLAR Ltd.

Title
OUTLINE SURFACE WATER DRAINAGE PROJECT SUBSTATIONS 5A, 7F & 10C

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	333101678-300.03-005

Plotted: 03.10.2026 @ 09:02:49 | Plot By: Rob Shortlock
DRG/Rev: A1 - ISO216 | J:\333101721 Hedgerow\Projects\cad\Dwgs\333101678-300.03-005



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01/006 SITE KEY PLAN
NTS

02/006 PLAN
1:1000

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3. LAYOUT TAKEN FROM DRAWING DRAWING EAST PYE SOLAR FARM, BY ISLAND GREEN POWER UK, DATED 19.11.2025. BESS LAYOUT BASED ON UPDATED LAYOUT 11.11.2025.
4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.
5. BESS FACILITY (AND WHERE APPROPRIATE SUBSTATION COMPOUNDS) TO INCORPORATE BUNDS AT LOWEST POINTS OF COMPOUND TO CONTAIN SURFACE AND FIREWATER RUNOFF.
6. ACCESS TRACKS WITHIN SUB-SITES AND THAT CONNECT ELEMENTS OF THE SCHEME (AND WHERE REQUIRED WITHIN BESS AND SUBSTATION COMPOUNDS) TO DRAIN TO SWALES OR FILTER DRAINS RUNNING PARALLEL WITH THE TRACKS.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- AGGREGATE SUB-BASE
- PROPOSED SWALE
- WORK 4 - NATIONAL GRID SUBSTATION
- WORK 6 - 132kV AND 400kV PROJECT SUBSTATIONS
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE		EE	-	2026.10.02
Issued/Revision		By	Appd	YYYY.MM.DD
	GD	EE	-	2026.09.29
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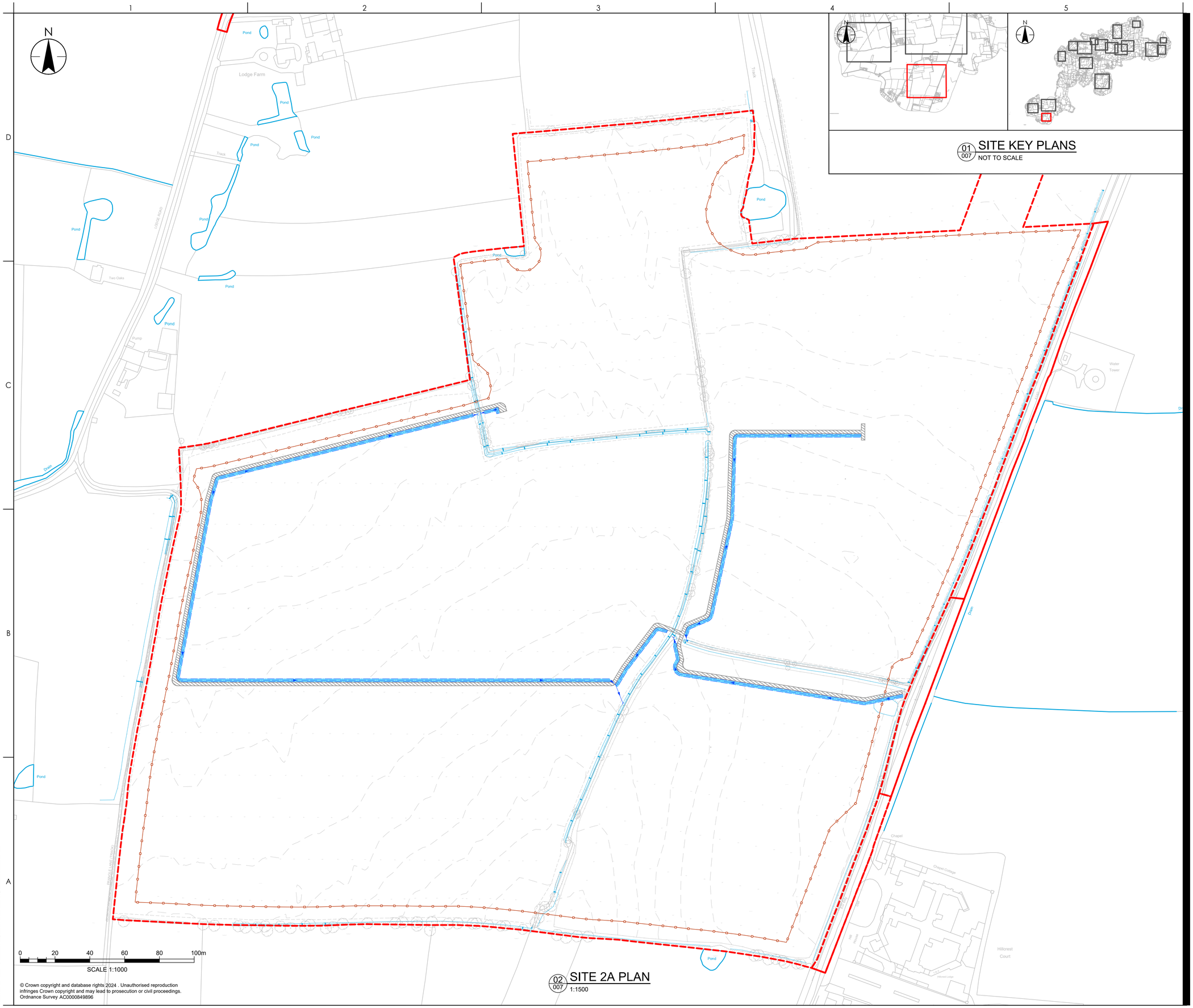
Title
CONCEPT SURFACE WATER DRAINAGE SITES 1A AND 1B

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-006**

Plotted: 03.10.2025 10:02:33 | 4:3 Plot By: Rob Shortnick
File Name: I:\333101678\Engineering\Drawings\333101678-300.03-006.dwg



01/007 SITE KEY PLANS
NOT TO SCALE

02/007 SITE 2A PLAN
1:1500

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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE		EE	-	2026.10.02
Issued/Revision		By	Appd	YYYY.MM.DD
	GD	EE	-	2026.10.02
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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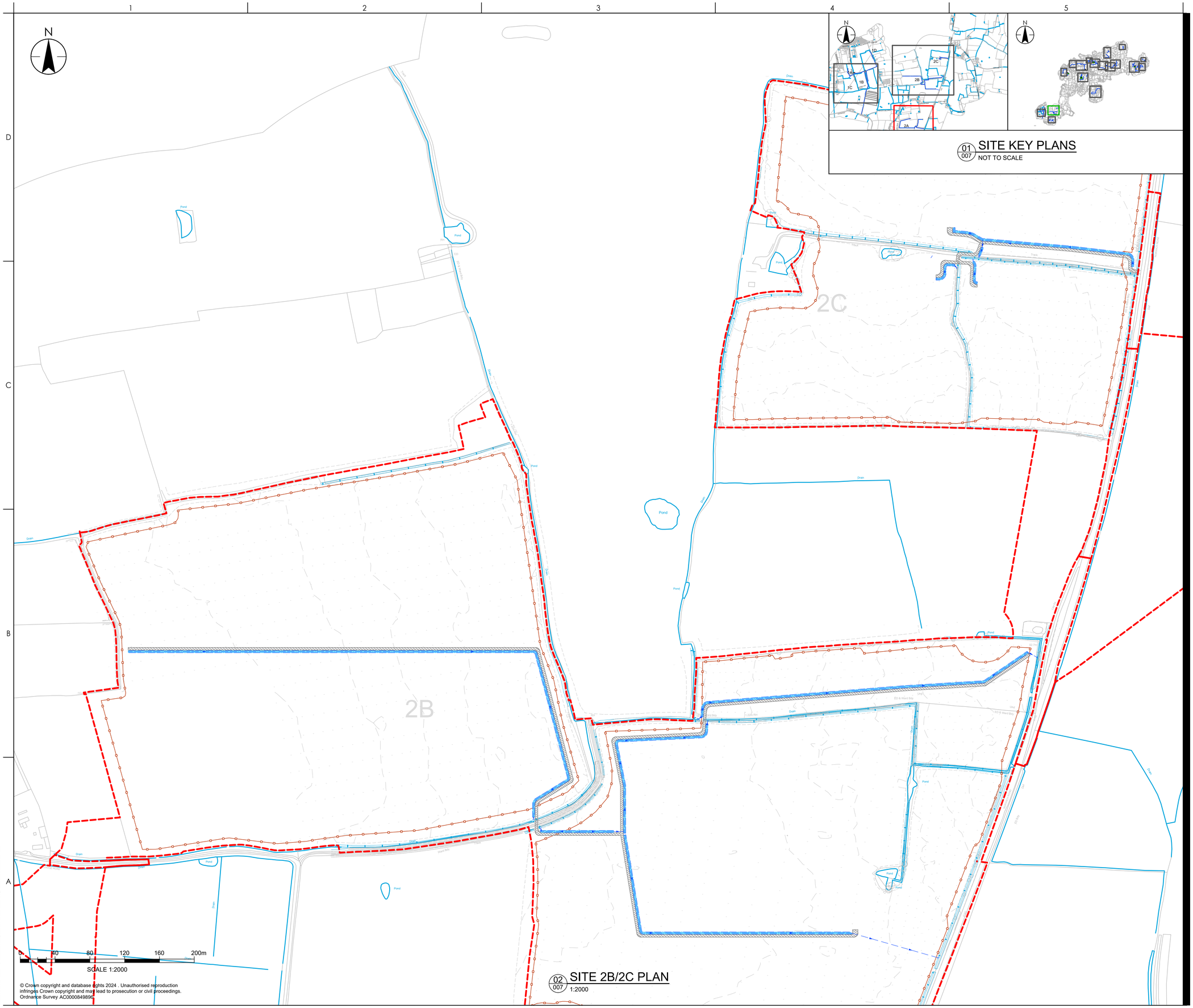
Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE SITE 2A

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-007**

Plotted: 05.12.2025 @ 08:51:47 AM By: Rob.Shortridge
Checked: Ed Elliott - EQ44 | J:\333101678 - Long Duration Pyes\01 Live\Drawings\333101678-300.03-007.dwg



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02 / 007 SITE 2B/2C PLAN
1:2000

01 / 007 SITE KEY PLANS
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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE		EE	-	2026.10.02
Issued/Revision		By	Appd	YYYY.MM.DD
	GD	EE	-	2026.10.02
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Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE SITES 2B/2C

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-008**

Plotted: 03.10.2026, 10:05:19 33.1 AM By: Rob Shortrick
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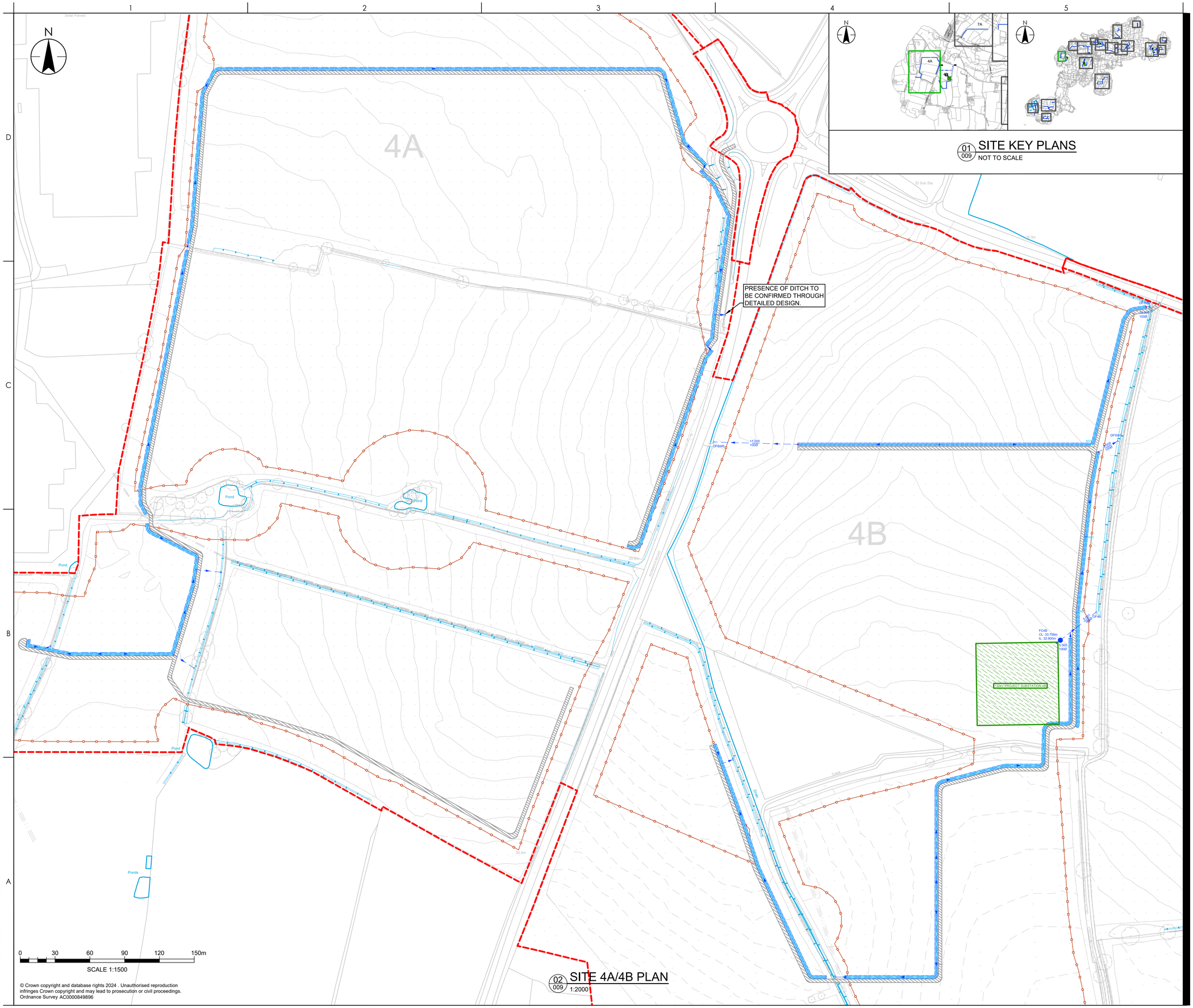

01 009 SITE KEY PLANS
NOT TO SCALE

02 009 SITE 4A/4B PLAN
1:2000

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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE	EE	-	2026.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
	GD	EE	-	2026.10.02
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Issue Status

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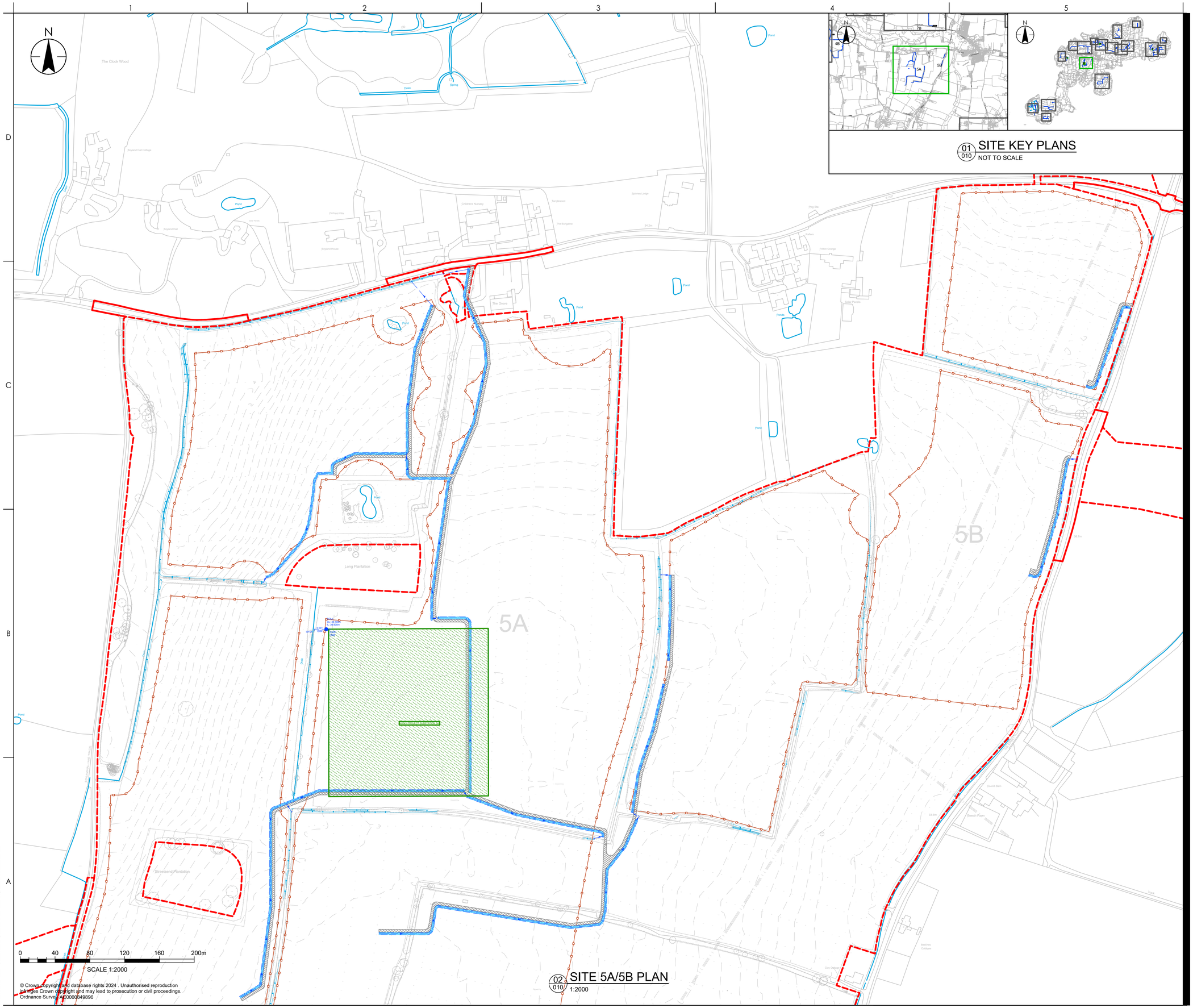
Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE SITES 4A/4B

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-009**

Plotted: 03.10.2026 10:05:11 | AM By: Rob Shortt
DOCSHL Ltd.ACT - ADC4 | J:\333101678 | Engineering\Project\Civil\Dwgs\333101678-300.03-007-023



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02 / 010 SITE 5A/5B PLAN
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01 / 010 SITE KEY PLANS
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3. LAYOUT TAKEN FROM DRAWING DRAWING EAST PYE SOLAR FARM, BY ISLAND GREEN POWER UK, DATED 19.11.2025. BESS LAYOUT BASED ON UPDATED LAYOUT 11.11.2025.
4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

Issued/Revision	By	Appd	
P01 FIRST ISSUE	EE	-	2026.10.02
	GD	-	2026.10.02
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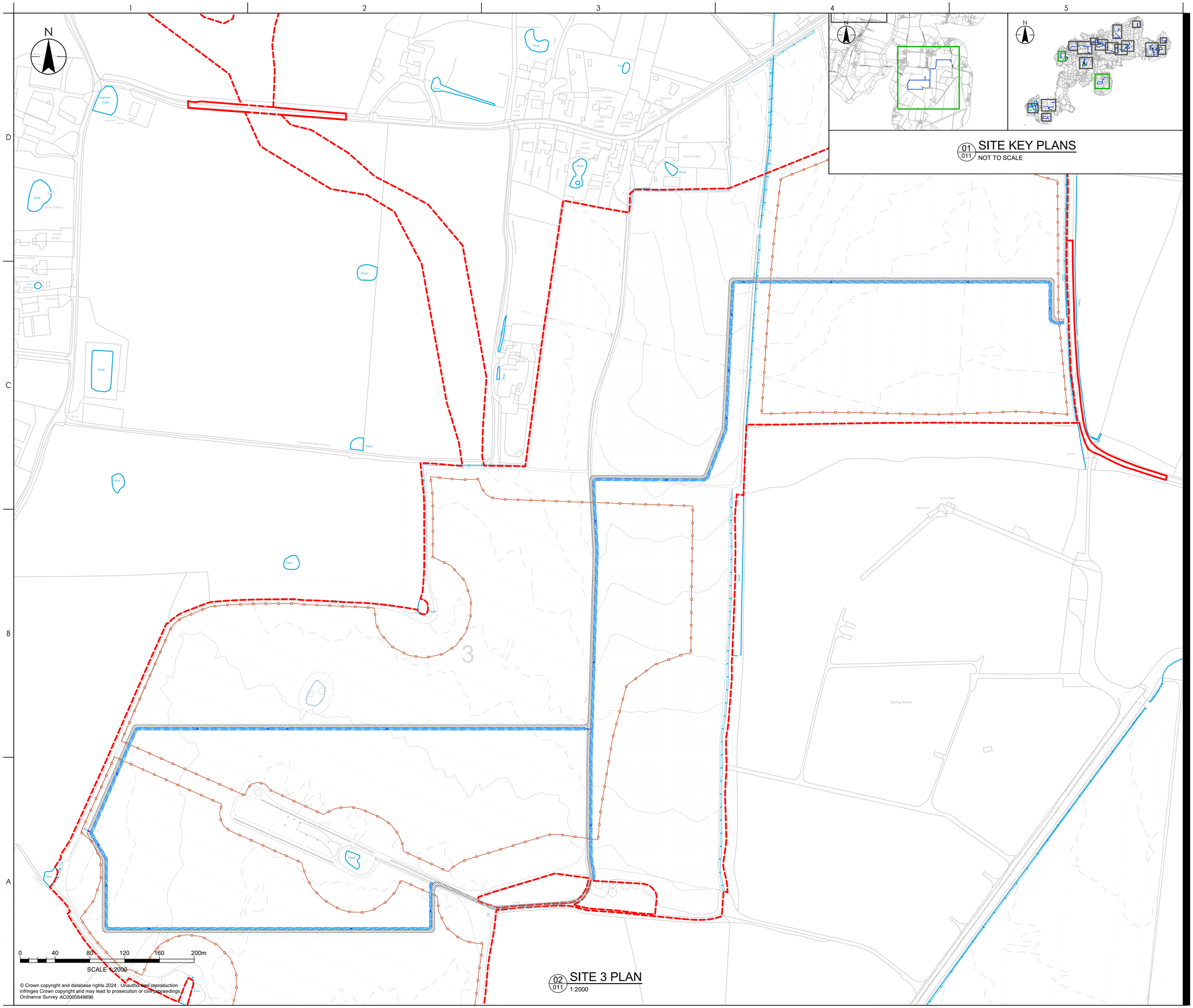
Title
CONCEPT ACCESS TRACK DRAINAGE SITES 5A/5B

Project No.	A1 Scale
333101678	AS SHOWN
Revision	**Drawing No.**
P01	**333101678-300.03-010**

Plotted: 05.12.2025 10:03:19 AM By: Rob Shortfield
File Name: J:\333101678\300\03-007-023 - J:\333101678\300\03-007-023 Temp Access Tracks 5A 5B.dwg



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02/011 SITE 3 PLAN
1:2000

01/011 SITE KEY PLANS
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3. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

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Issued/Revision	By	Appd	
P01 FIRST ISSUE	EE	-	2026.10.02 YYYY.MM.DD

	Dwn.	Dsgn.	Chkd.	
	GD	EE	-	2026.10.02 YYYY.MM.DD

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Client/Project
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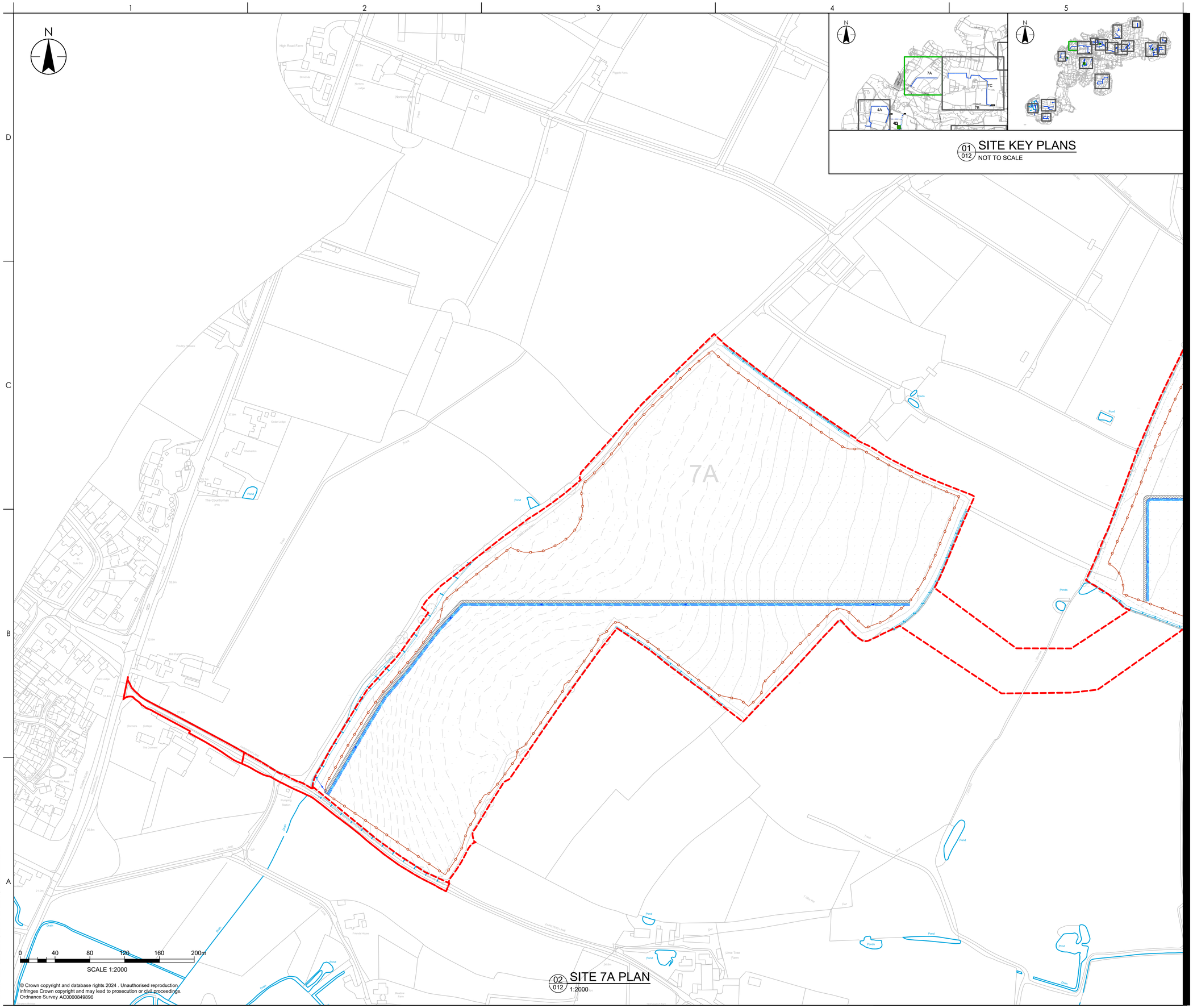
Title
CONCEPT ACCESS TRACK DRAINAGE SITE 3

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	333101678-300.03-011

Plotted: 03.12.2026 10:05:11:000 AM By: Rita Shumak
Drawing Path: K:\GA1-1\333101678\Engineering\Civil\Drawings\333101678-300.03-007-023

01/012 SITE KEY PLANS
NOT TO SCALE



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02/012 SITE 7A PLAN
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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE		EE	-	2026.10.02
Issued/Revision		By	Appd	YYYY.MM.DD
	GD	EE	-	2026.10.02
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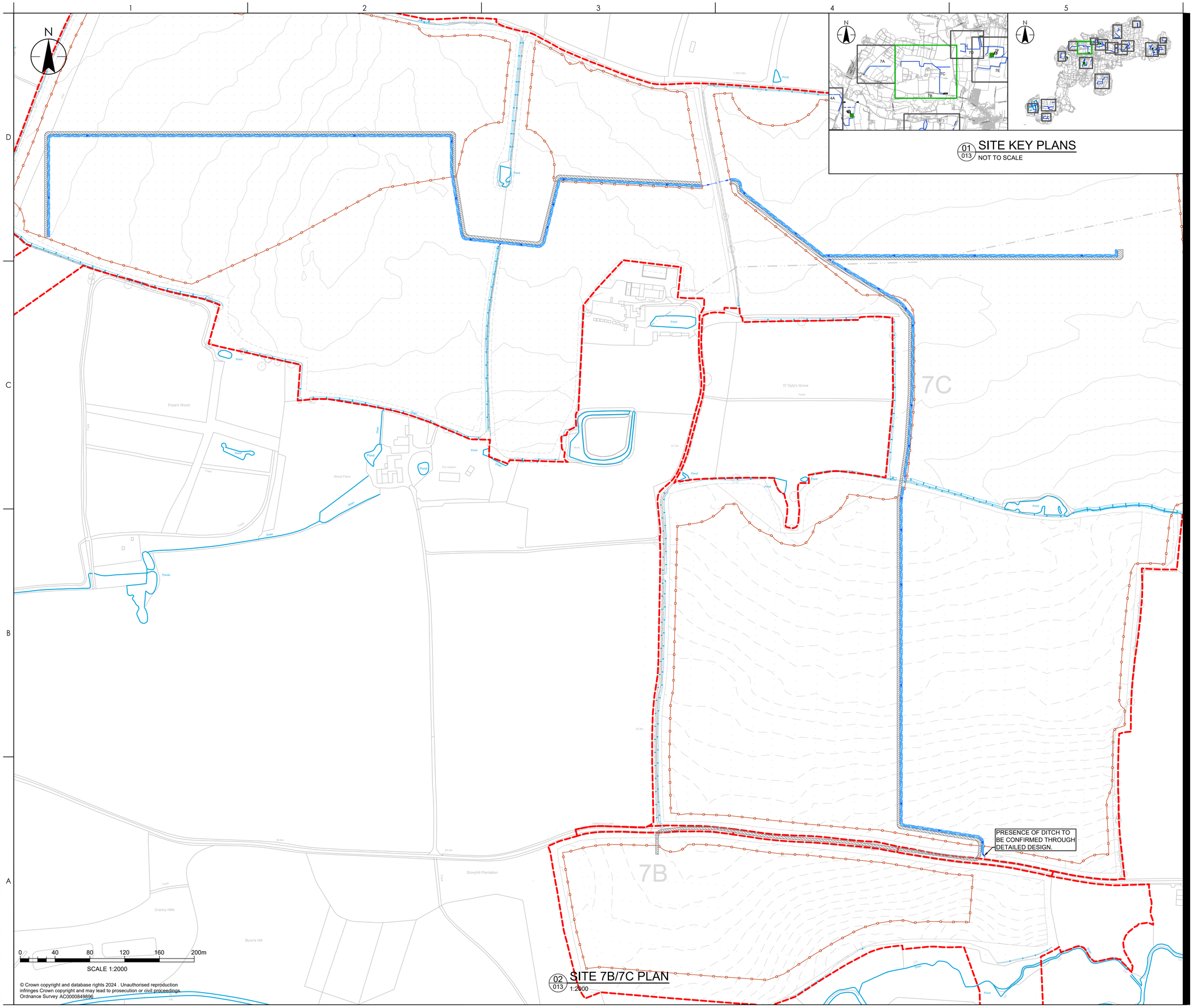
Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE SITE 7A

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-012**

Plotted: 05.10.2026 10:03:11 | 1:1000 AM | By: Rod_Shurman
Drawing: K:\EIDT - ISOLA - 333101671 - Yorkg and Nor (Pye Nth)\Drawings\333101678\300.03-007-023



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01/013 SITE KEY PLANS
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02/013 SITE 7B/7C PLAN
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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE		EE	-	2026.10.02
Issued/Revision		By	Appd	YYYY.MM.DD
	GD	EE	-	2026.10.02
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Client/Project
EAST PYE SOLAR Ltd.

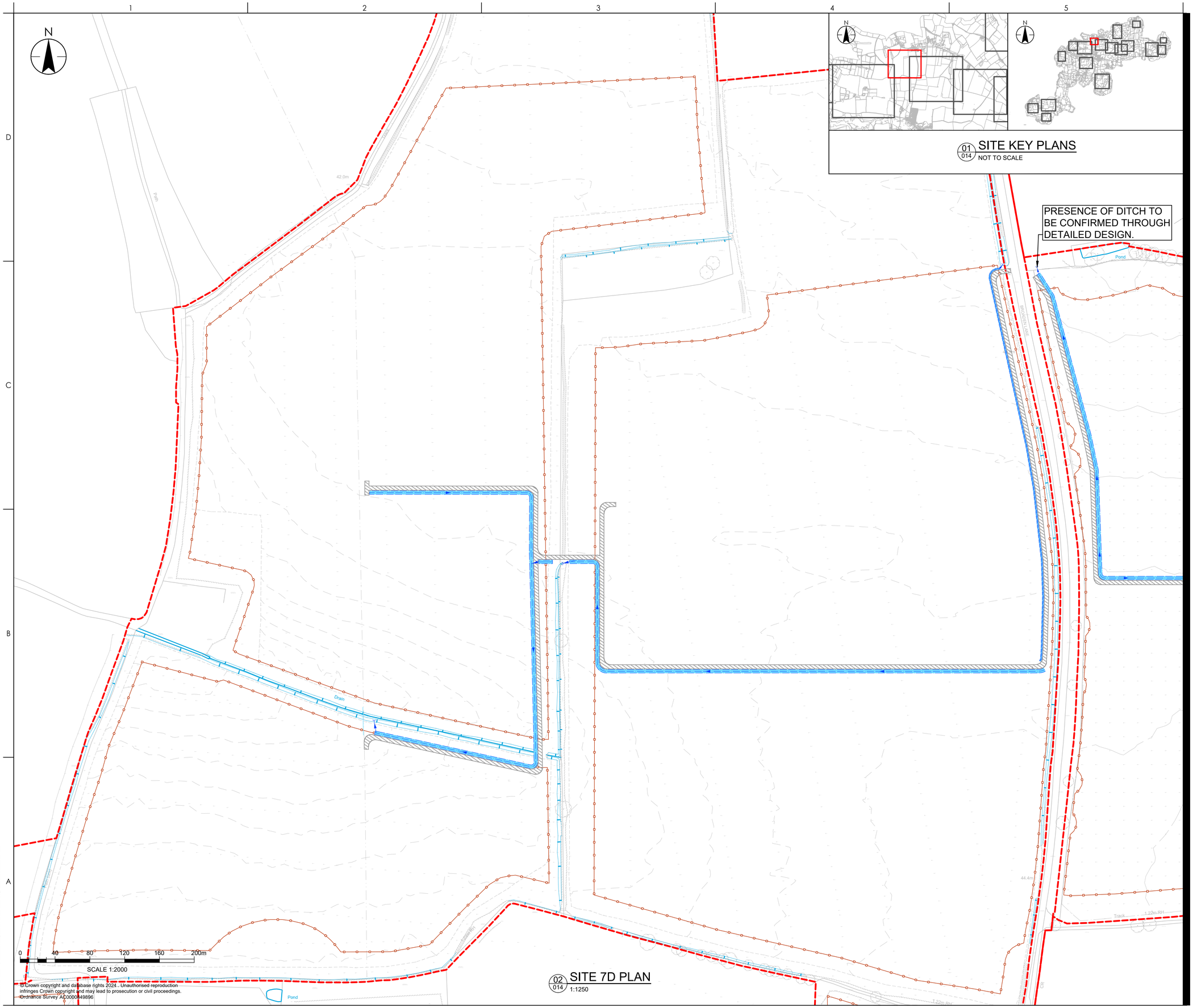
Title
CONCEPT ACCESS TRACK DRAINAGE SITES 7B/7C

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-013**

Plotted: 05.12.2025 10:53:11 AM By: Rod Shortman
File Name: \\eu001-f001\...\333101678 - East Pye Solar Farm\Project Data\Drawings\333101678-300.03-007-013

01/014 SITE KEY PLANS
NOT TO SCALE

PRESENCE OF DITCH TO BE CONFIRMED THROUGH DETAILED DESIGN.



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02/014 SITE 7D PLAN
1:1250

KEY:

- ORDER LIMITS
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- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

P01 FIRST ISSUE	EE	-	2026.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
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Title
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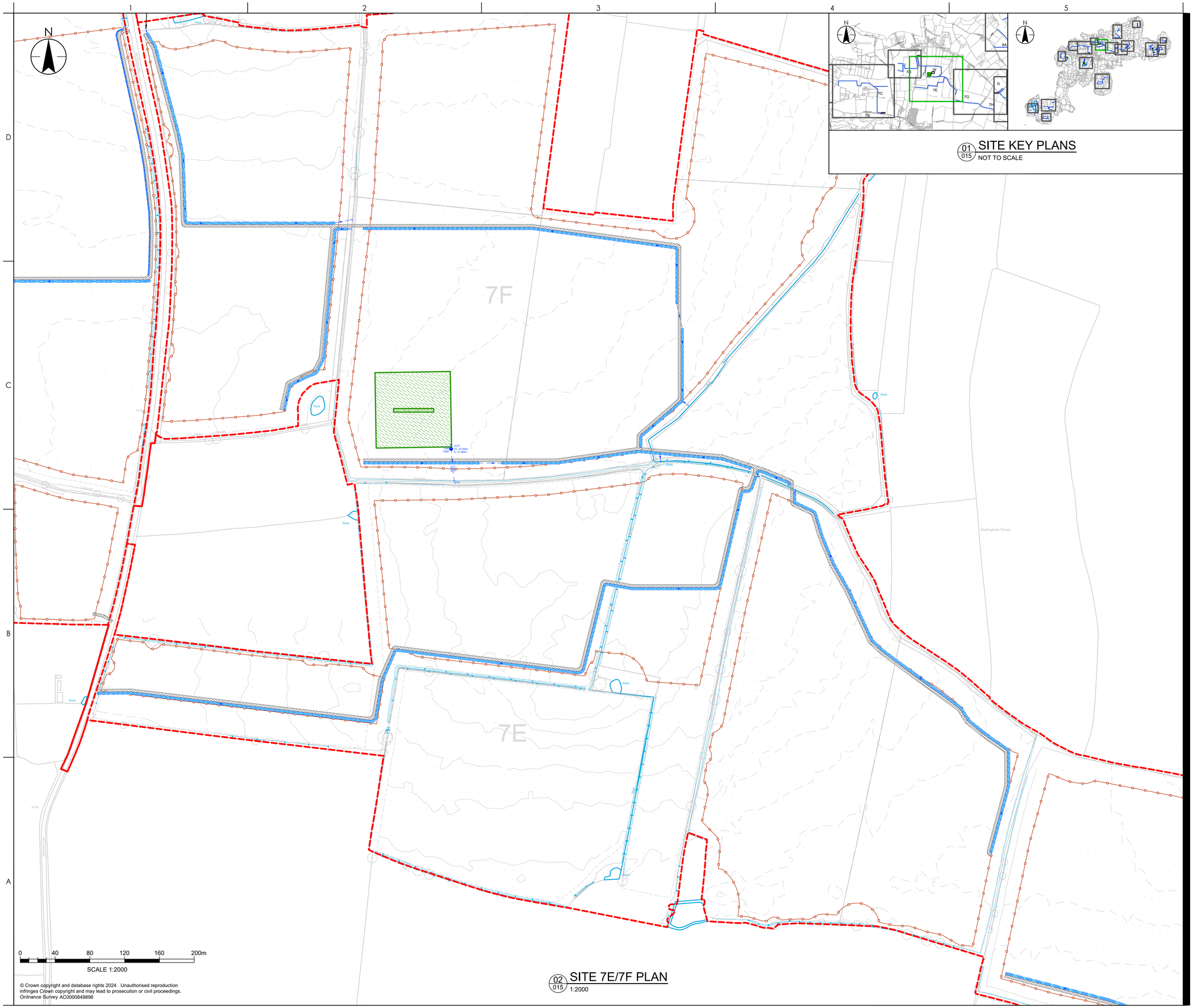
Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-014**

Plotted: 05.12.2025 10:03:11 AM By: Rob Shortfield
Drawing Path: C:\Users\rob.shortfield\Stantec\Projects\East Devon\333101678\300.03-007.023



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02/015 SITE 7E/7F PLAN
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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE	EE	-	2026.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
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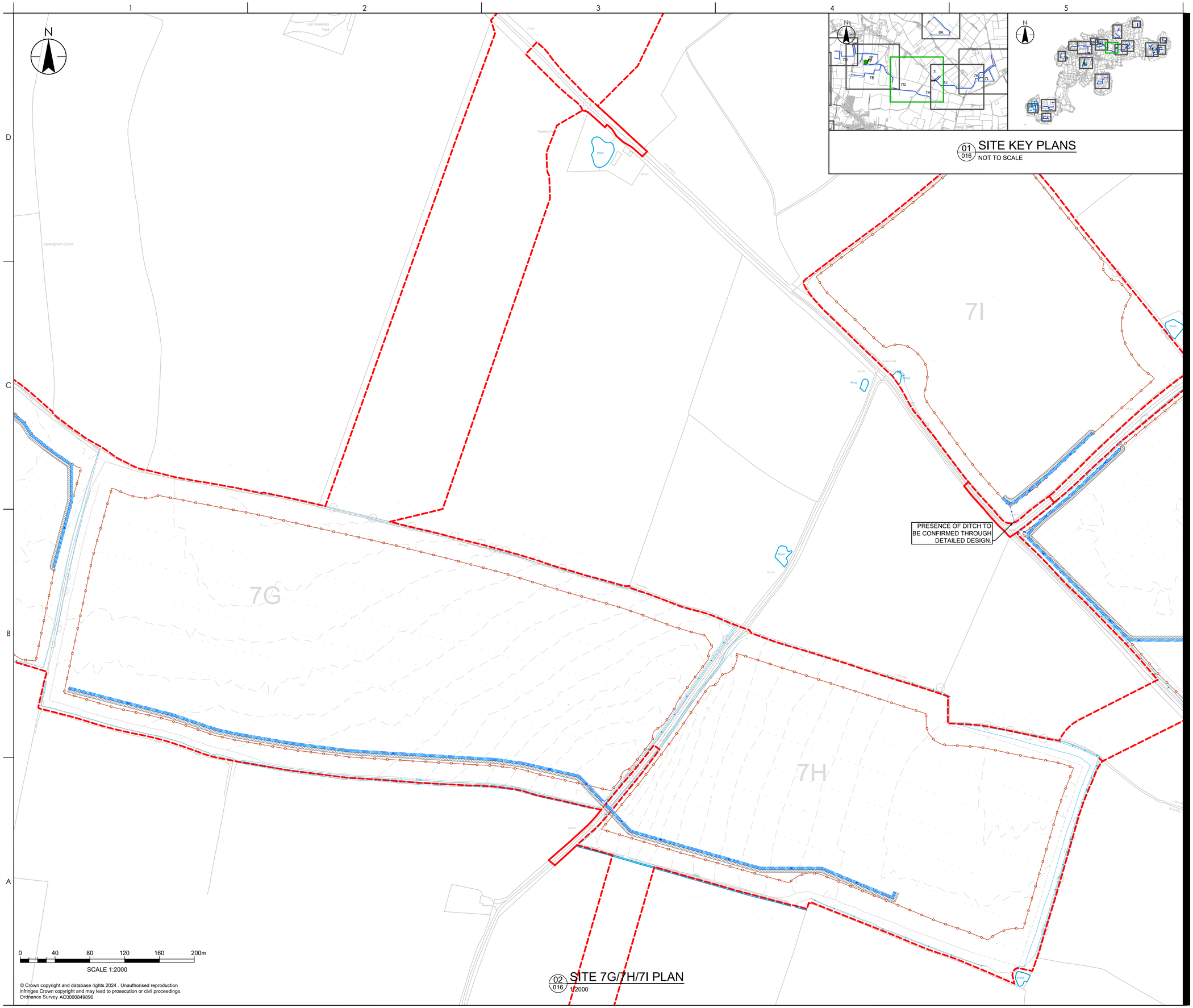
Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE SITES 7E/7F

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-015**

Plotted: 05.12.2025, 2026.10.05 11:53:19 AM By: Rob.Shortnott
File Name & Path: C:\Users\rob.shortnott\Stantec\Projects\333101678-300.03-007-023 - 333101678 Ring Garden Project\cad\dwgs\333101678-300.03-007-023 - 333101678 Ring Garden Project.dwg



01 / 016 SITE KEY PLANS
NOT TO SCALE

02 / 016 SITE 7G/7H/7I PLAN
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Plotted: 05.10.2026 20:06, 10.03.1 H:\02 AM By: Rob. Shortt\ch\ Drawing file: C:\Users\robert.shortt\Desktop\333101678_300.03-007-023

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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE		EE	-	2026.10.02
Issued/Revision		By	Appd	YYYY.MM.DD
	GD	EE	-	2026.10.02
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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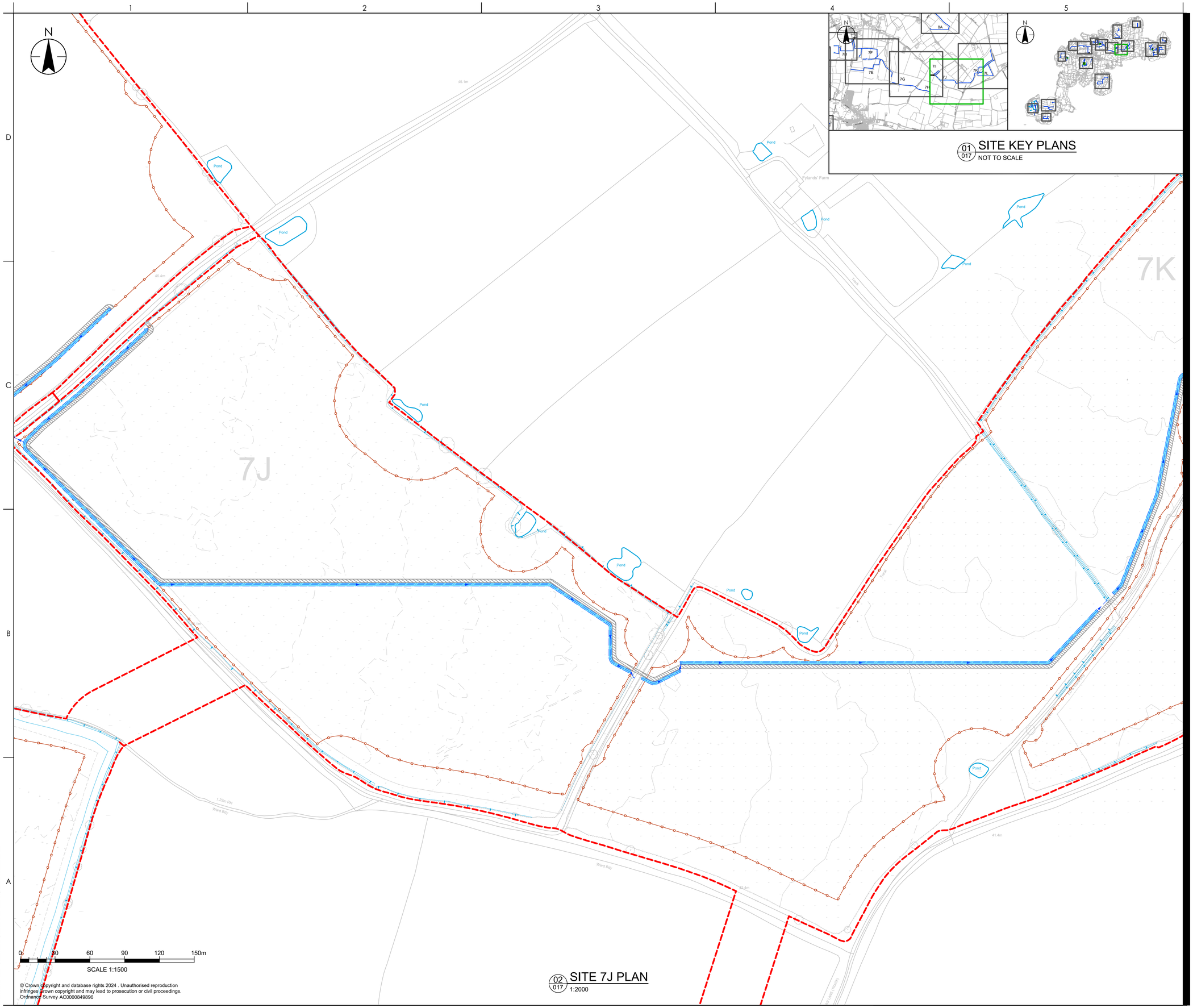
Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE 7G/7H/7I

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-016**



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02/017 SITE 7J PLAN
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01/017 SITE KEY PLANS
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3. LAYOUT TAKEN FROM DRAWING DRAWING EAST PYE SOLAR FARM, BY ISLAND GREEN POWER UK, DATED 19.11.2025. BESS LAYOUT BASED ON UPDATED LAYOUT 11.11.2025.
4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE		EE	-	2026.10.02
Issued/Revision		By	Appd	YYYY.MM.DD
	GD	EE	-	2026.10.02
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

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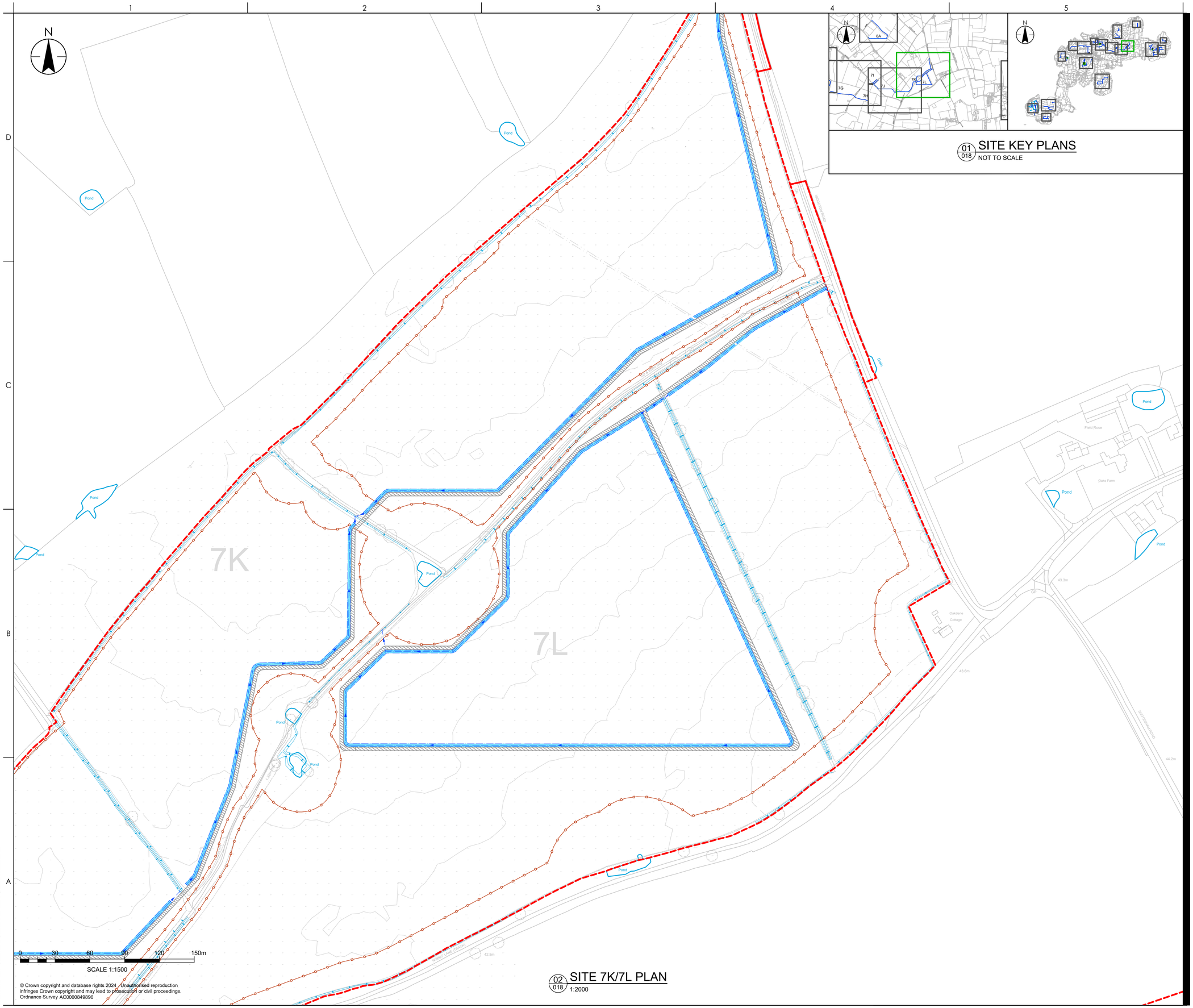
Client/Project Logo

Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE SITE 7J

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-017**

Plotted: 05.12.2025 10:53:11 | By: Ana Rita Sharman
Drawing Path: I:\333101678 - Long Common Pyewell\Civil\Dwgs\333101678-300.03-007-023



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02 018 SITE 7K/7L PLAN
1:2000

01 018 SITE KEY PLANS
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2. TOPOGRAPHICAL SURVEY BASED ON DRAWING EAST PYE SOLAR FARM BY ISLAND GREEN POWER UK, DATED 2024.10.08.
3. LAYOUT TAKEN FROM DRAWING DRAWING EAST PYE SOLAR FARM, BY ISLAND GREEN POWER UK, DATED 19.11.2025. BESS LAYOUT BASED ON UPDATED LAYOUT 11.11.2025.
4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE	EE	-	2026.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
	GD	EE	-	2026.10.02
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

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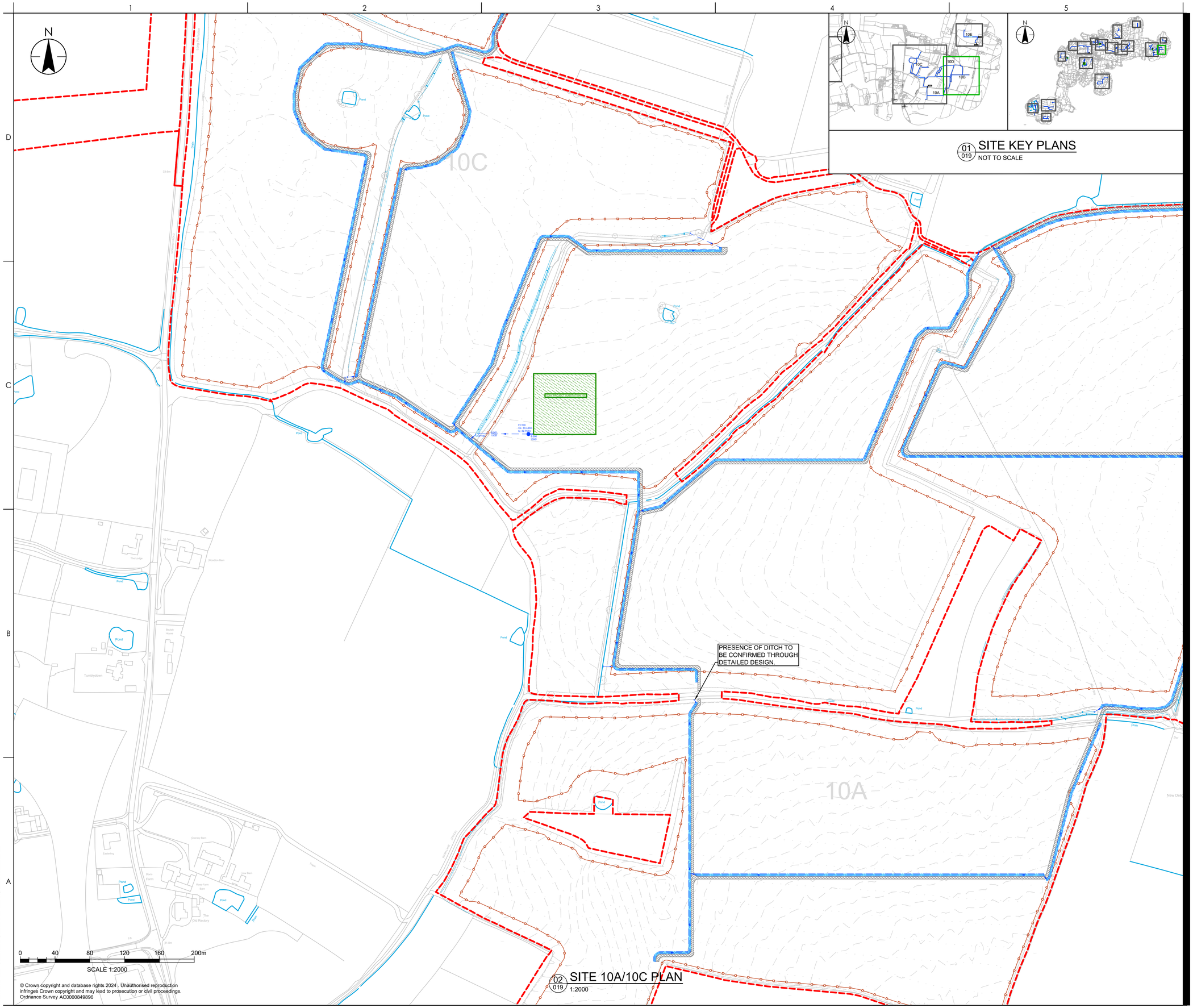
Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE SITES 7K/7L

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	333101678-300.03-018

Plotted: 05.10.2026 - 20:04, 1:1.003 H:\11-Cad\ A4 By: Rob. Shortt\ox
Drawing_sheet - ISO A1 - Landscape_Portrait\Xcloth Drwgs\333101678-300.03-007-023



01 019 SITE KEY PLANS
NOT TO SCALE

02 019 SITE 10A/10C PLAN
1:2000

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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011KV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

Issued/Revision	By	Appd	
P01 FIRST ISSUE	EE	-	2026.10.02 YYYY.MM.DD
	GD Dwn.	EE Dsgn.	- Chkd. 2026.10.02 YYYY.MM.DD

Issue Status

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Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE SITES 10A/10C

Project No.	A1 Scale
333101678	AS SHOWN
Revision	**Drawing No.**
P01	**333101678-300.03-019**

Plotted: 05.10.2026 10:05:17 PM AM By: Rob Shortt
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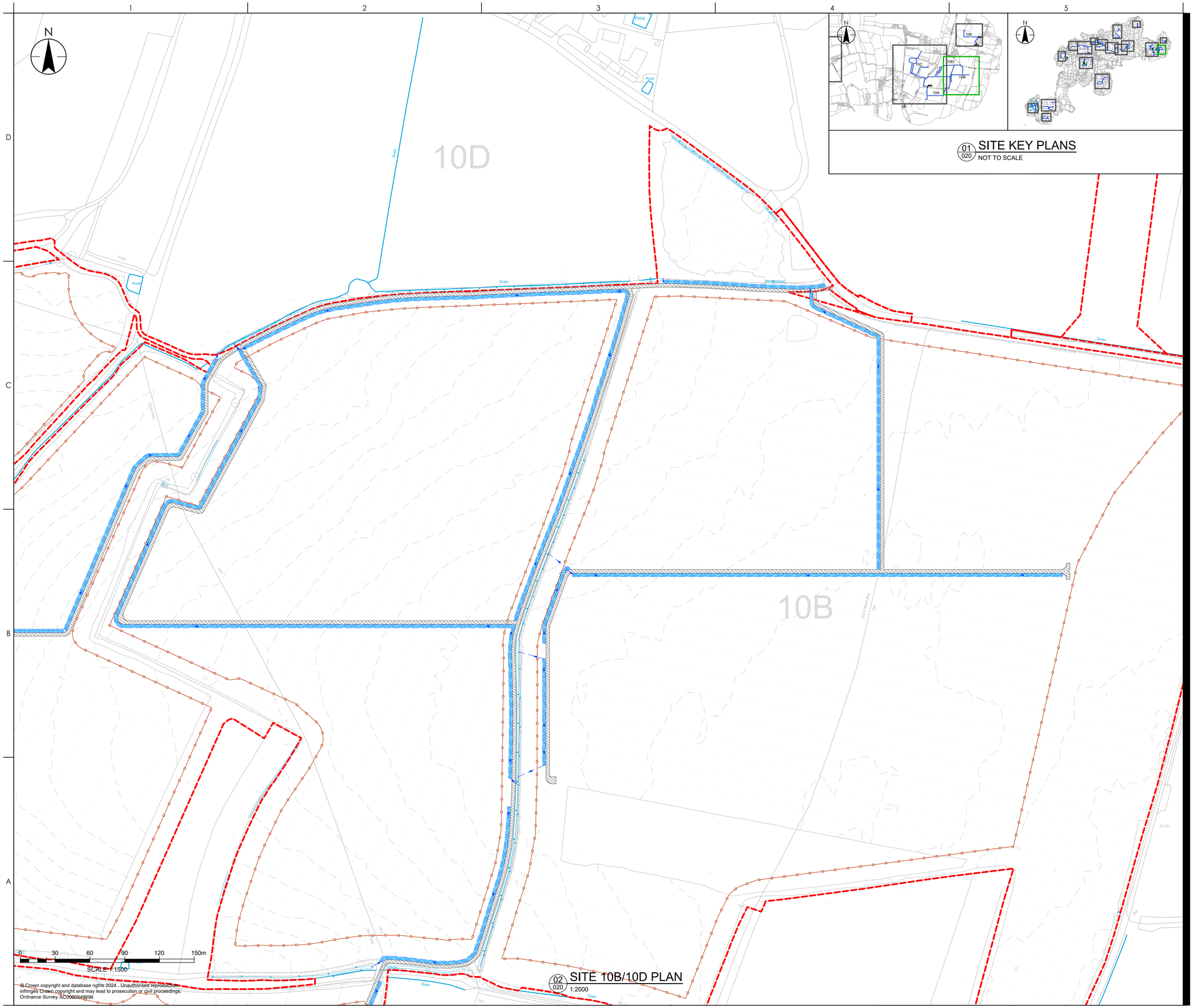
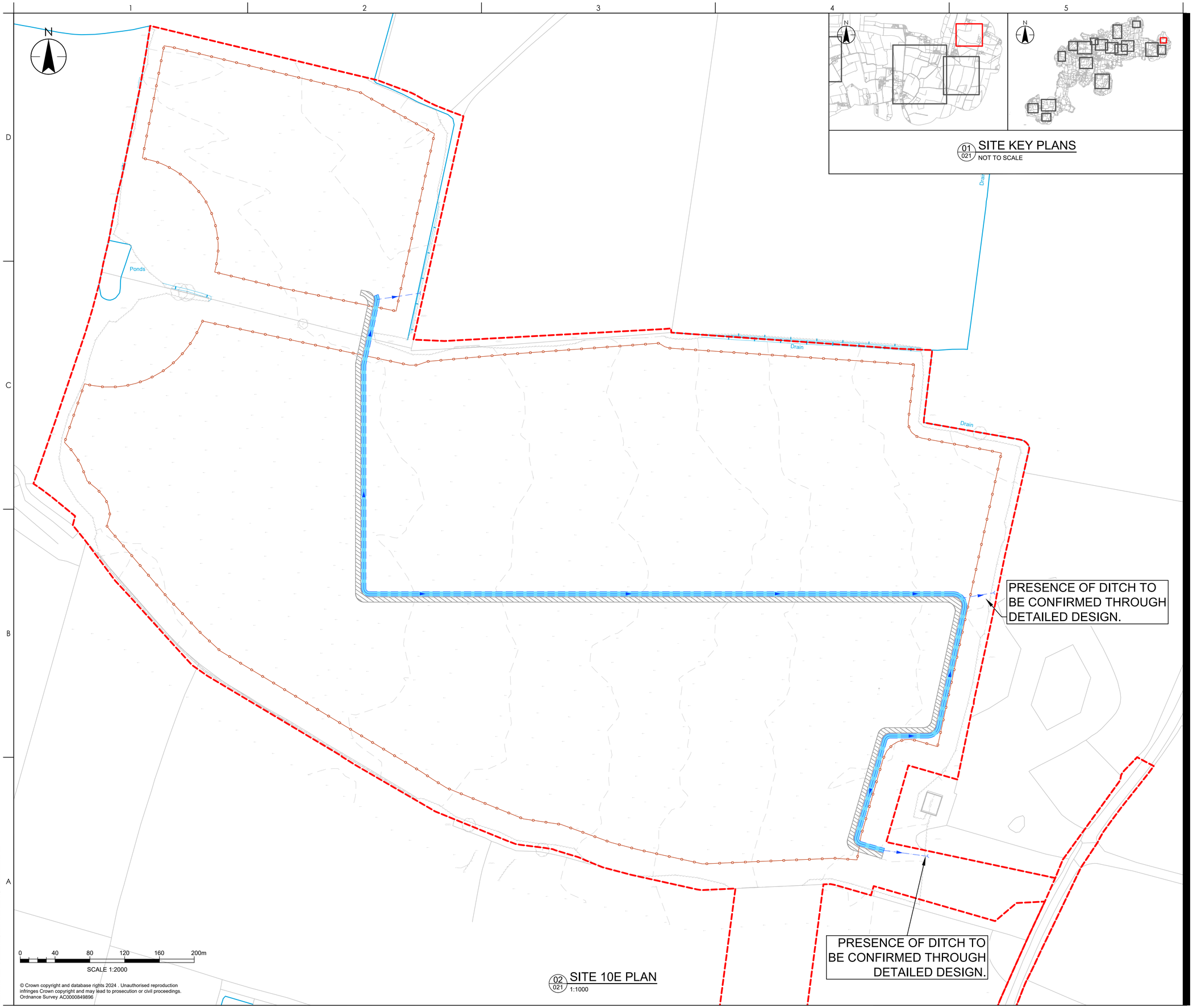

N
10D
10B
Pond
Pond
Pond
Drain
Drain
Drain
Track
Track
Track
Weir
Weir
Weir
Ditch
Ditch
Ditch



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02/021 SITE 10E PLAN
1:1000

01/021 SITE KEY PLANS
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5. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

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P01 FIRST ISSUE	EE	-	2026.10.02

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	GD	EE	-	2026.10.02

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Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE SUB-SITE 10E

Project No.	A1 Scale
333101678	AS SHOWN
Revision	**Drawing No.**
P01	**333101678-300.03-021**

Plotted: 05.12.2025 10:03:11 739 AM By: Rod. Shurmer
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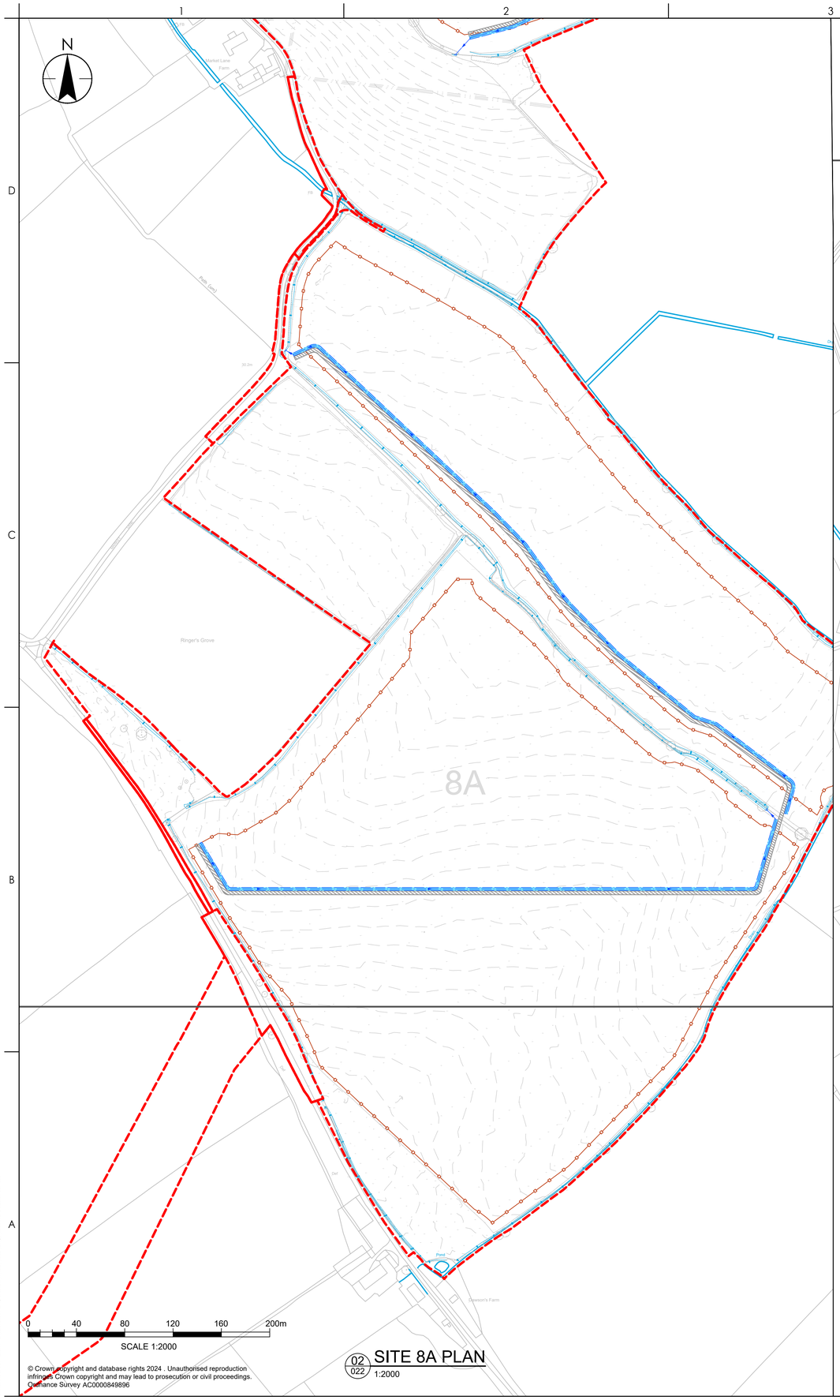

02 / 022 SITE 8A PLAN
1:2000

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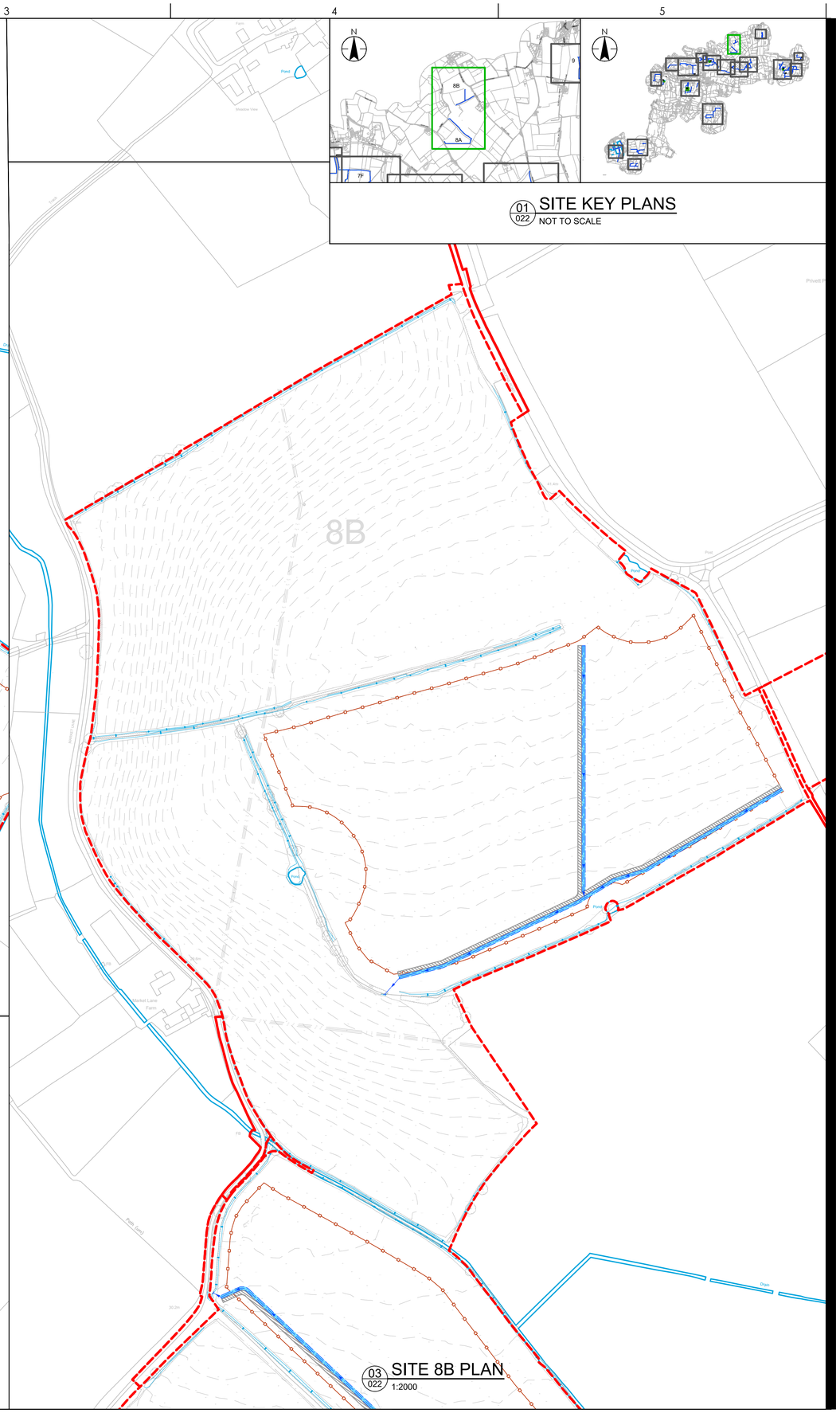
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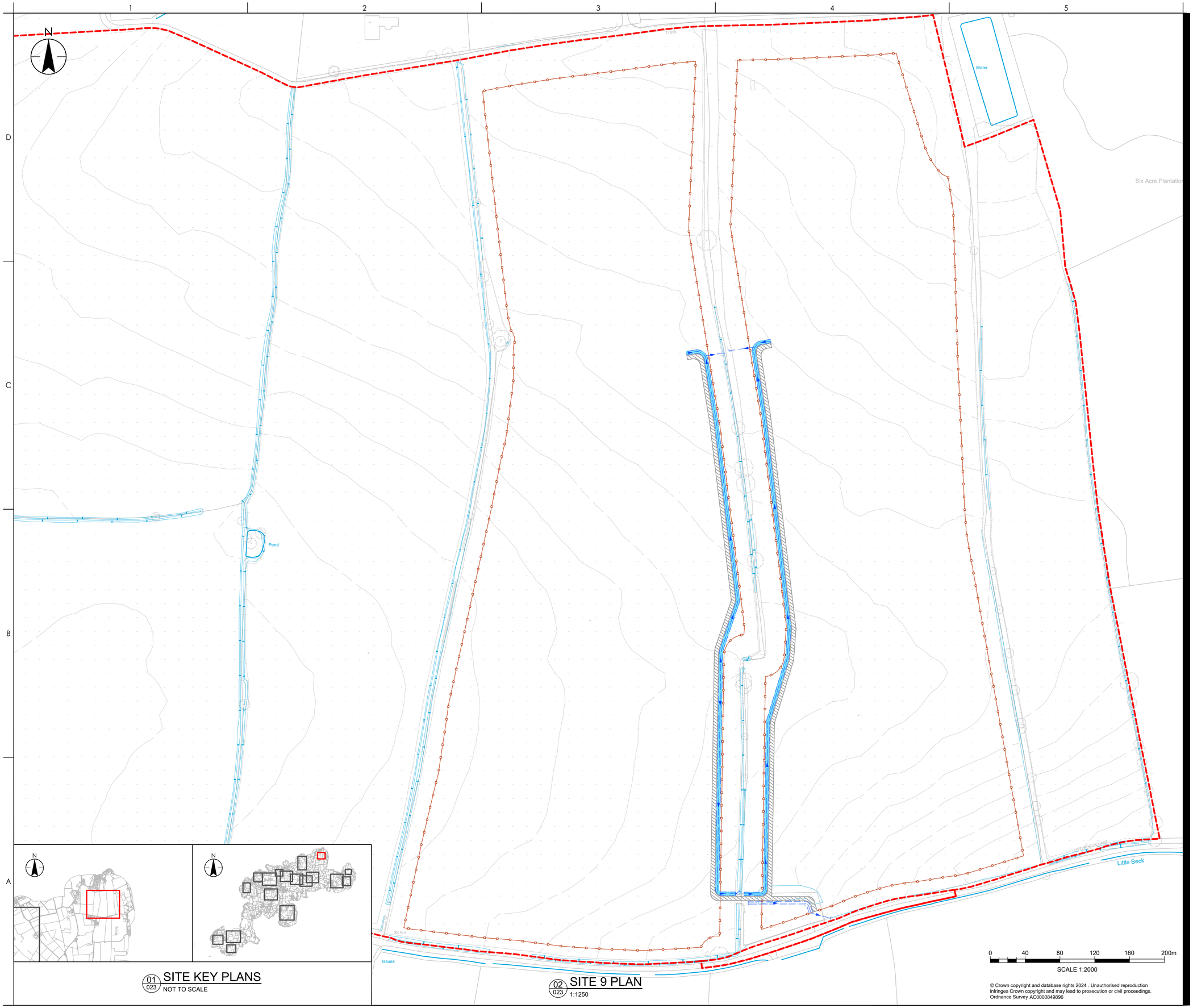
Pond
Meadow View
Private Road
Ponds Lane
Pond
Pond
Pond



01 / 023 SITE KEY PLANS
NOT TO SCALE

02 / 023 SITE 9 PLAN
1:1250

0 40 80 120 160 200m
SCALE 1:2000

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KEY:

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- EXISTING DITCH
- ACCESS TRACK
- PROPOSED SWALE
- PROPOSED SOLID SURFACE WATER PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED HEADWALL
- FENCING

UTILITIES KEY:

- Ex Elec 011kV oh
- Ex Elec 400kV oh
- Ex Elec Lv oh
- Ex Elec Lv
- Ex Elec 011kV
- Ex Gas Low Pressure
- Ex Gas High Pressure
- Ex Comms BT Ducts
- Ex BT Overhead Lines
- Ex Water
- Abandoned
- Ex Comms Gigaclear
- Ex Gas Intermediate Pressure

P01 FIRST ISSUE		EE	-	2026.10.02
Issued/Revision		By	Appd	YYYY.MM.DD
	GD	EE	-	2026.10.02
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EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE SITE 9

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	**333101678-300.03-023**

PicHeck 05.12.2025 2026.10.02 9:18:05 AM By: Rob.Shorthouse
C:\Users\Rob.Shorthouse\Documents\333101678_EAST PYE SOLAR FARM_rshorthouse.rvt