

Stratton Park House, Wanborough Road  
Swindon, SN3 4HG  
Telephone  
01793 828000  
Website  
www.pfaplc.com

**For Planning**  
This drawing is produced for the purposes of supporting a planning application and should not be relied upon for tender, pricing, or construction purposes.

**KEY**

- Site Boundary (Indicative Only)
- Ordinary Watercourse
- Ordinary Watercourse (IDB Maintained)
- 7m Watercourse Buffer
- Overland Flow Route (Indicative Only)
- Archaeological Mitigation Areas
- Interception Swales

**NOTES**

- Based on drawing DX-01-P02 Rev09 Parameter Plan by Enso Energy dated 07/02/2024
- Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
- Based on data from Archaeological Services WYAS Reference: XF70\_HLO22 Relieved 05/05/2023
- Approximate Top of Bank based on LiDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
- Contains public sector information licensed under the Open Government Licence v3.0.
- 7m watercourse buffer in accordance with Sotby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).
- Total Length of swales provided = 4975m. Per metre length of swale, at 1/2 full (incorporating a 0.1m freeboard), 0.08m³ of storage is available. Therefore the total available storage provided within the swales is 398m³.

**SHEET KEY**

1	2
3	4
5	6
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9	10
11	12
13	14
15	16
17	18

Rev	Date	Description	Drawn	Check
#	09/06/23	First Issue	SJC	SAM
A	23/06/23	Presentation updated	BF	
B	23/06/23	Layout Revision	IS	
C	14/02/24	Updated parameters plan & site boundary	SJC	BF

Status

**FOR PLANNING**

Client

**Enso Green Holdings D Limited**

Project

**Helios Renewable Energy Project**

Drawing Title

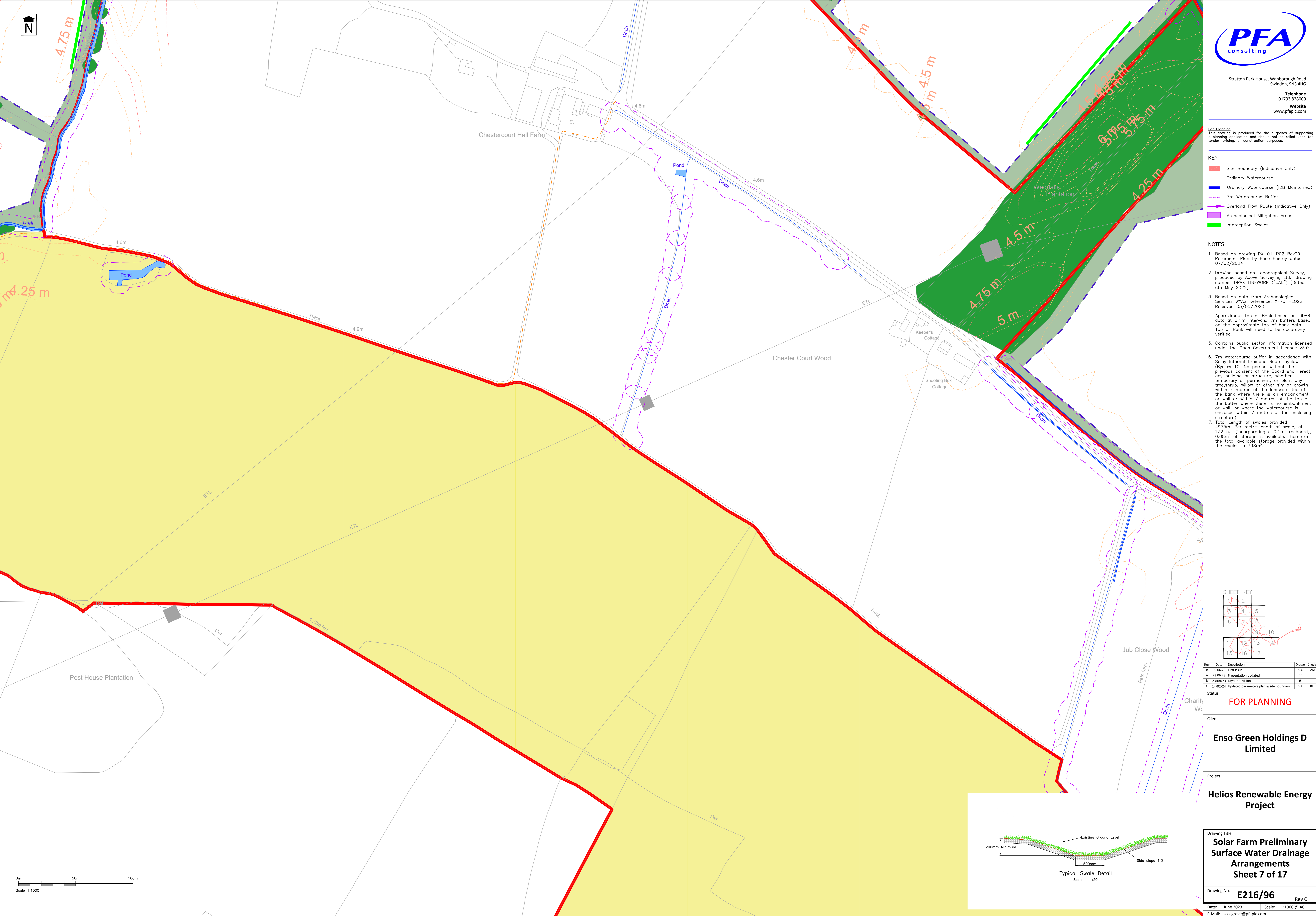
**Solar Farm Preliminary Surface Water Drainage Arrangements**

**Sheet 6 of 17**

Drawing No. **E216/95** Rev C

Date: June 2023 Scale: 1:1000 @ A0

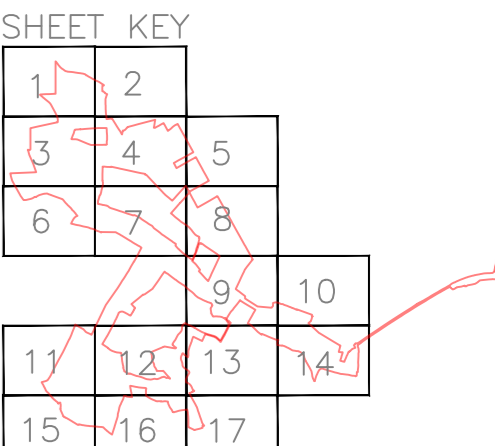
E-Mail: scoisgrove@pfaplc.com



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- KEY**
- Site Boundary (Indicative Only)
  - Ordinary Watercourse
  - Ordinary Watercourse (IDB Maintained)
  - 7m Watercourse Buffer
  - Overland Flow Route (Indicative Only)
  - Archeological Mitigation Areas
  - Interception Swales

- NOTES**
- Based on drawing DX-01-P02 Rev09 Parameter Plan by Enso Energy dated 07/02/2024
  - Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
  - Based on data from Archaeological Services WYAS Reference: XF70\_HL022 Received 05/05/2023
  - Approximate Top of Bank based on LIDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
  - Contains public sector information licensed under the Open Government Licence v3.0.
  - 7m watercourse buffer in accordance with Selby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).
  - Total Length of swales provided = 4952m. Per metre length of swale, at 1/2 full (incorporating a 0.1m freeboard), 0.08m³ of storage is available. Therefore the total available storage provided within the swales is 398m³.



Rev	Date	Description	Drawn	Check
A	23/06/23	First issue	SJC	SAH
B	23/08/23	Presentation updated	BF	
C	14/02/24	Layout Revision	IS	
		Updated parameters plan & site boundary	SJC	BF

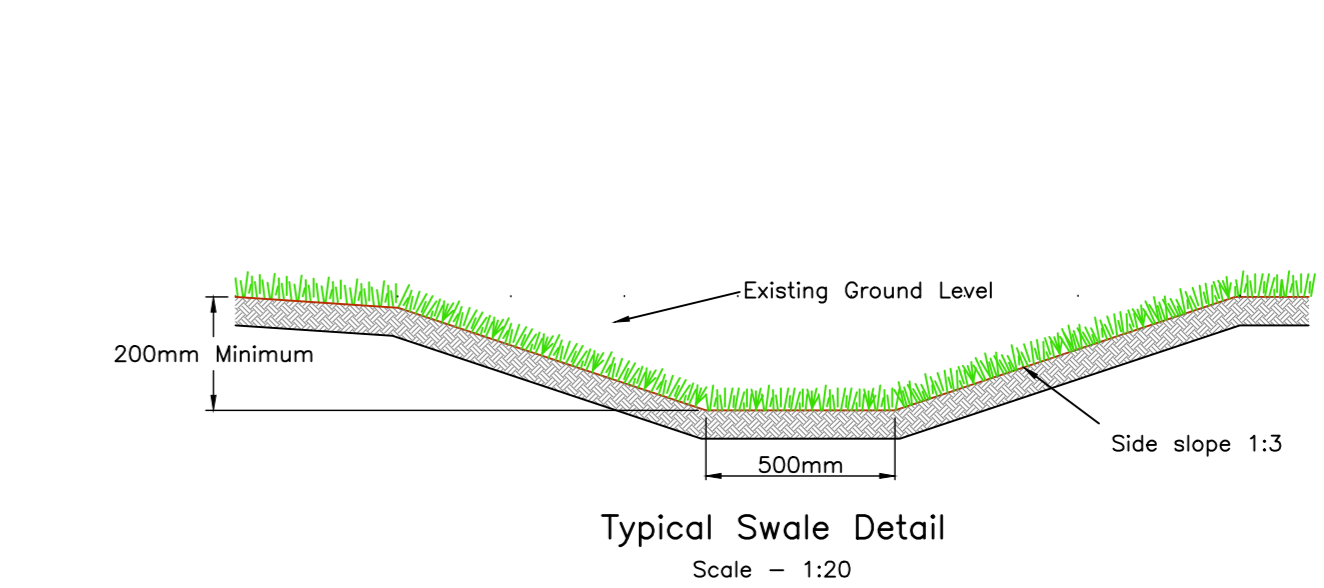
Status  
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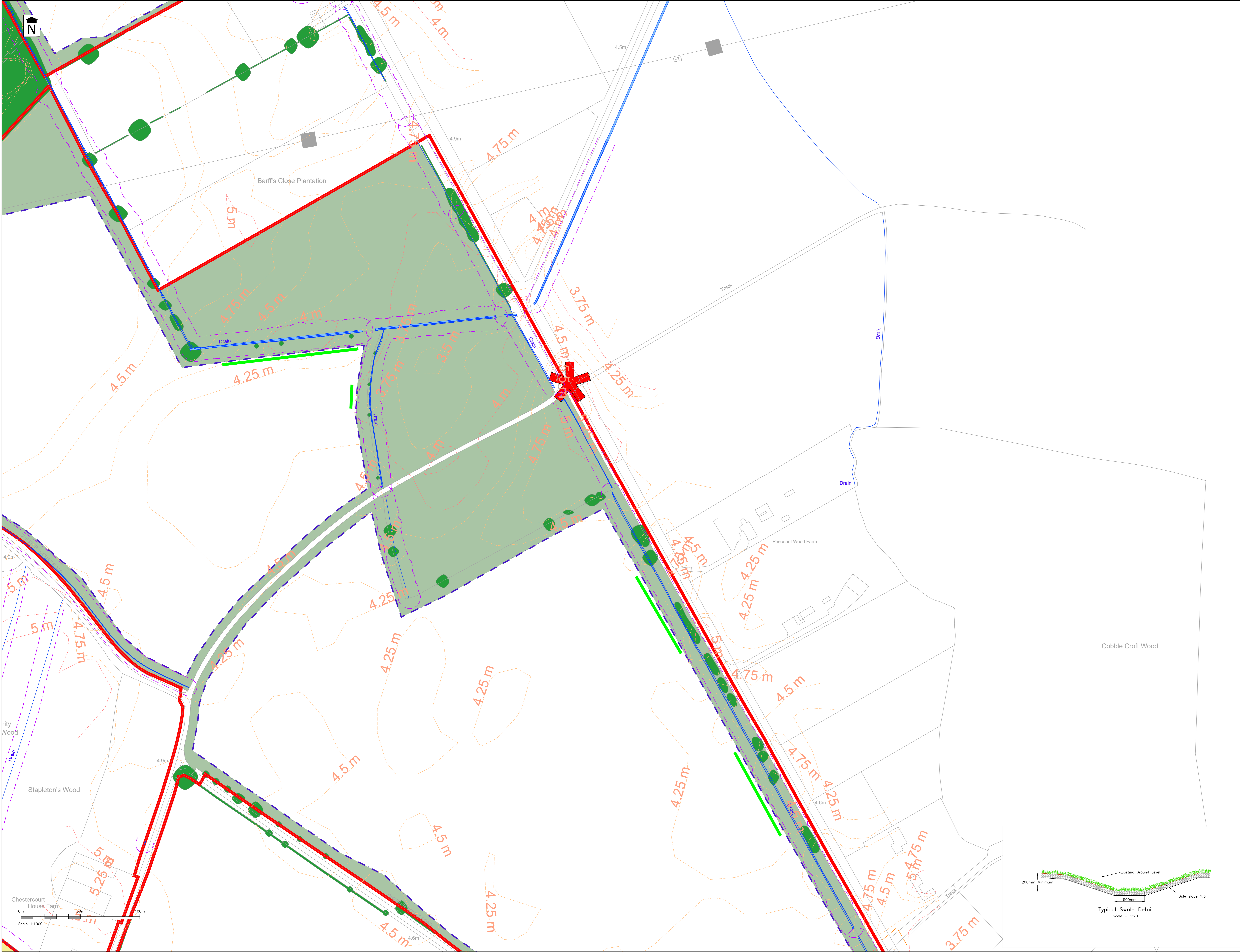
Client  
**Enso Green Holdings D Limited**

Project  
**Helios Renewable Energy Project**

Drawing Title  
**Solar Farm Preliminary Surface Water Drainage Arrangements Sheet 7 of 17**

Drawing No. **E216/96** Rev C  
Date: June 2023 Scale: 1:1000 @ A0  
E-Mail: scosgrove@pfapl.com



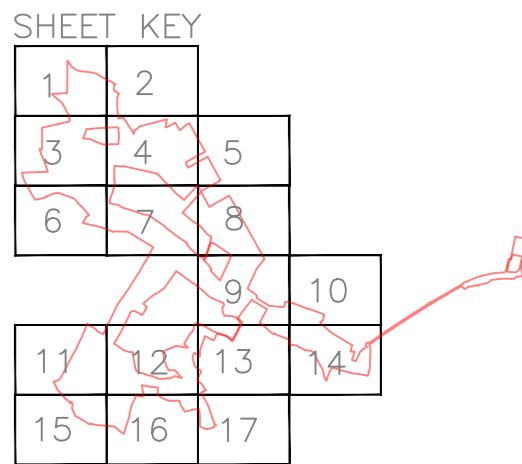


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  - Ordinary Watercourse (IDB Maintained)
  - 7m Watercourse Buffer
  - Overland Flow Route (Indicative Only)
  - Archeological Mitigation Areas
  - Interception Swales

- NOTES
- Based on drawing DX-01-P02 Rev09 Parameter Plan by Enso Energy dated 07/02/2024.
  - Drawing based on Topographical Survey produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
  - Based on data from Archaeological Services WYAS Reference: XF70\_HL022 Received 05/05/2023
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  - 7m watercourse buffer in accordance with Selby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).
  - Total Length of swales provided = 4975m. Per metre length of swale, at 1/2 full (incorporating a 0.1m freeboard), 0.08m<sup>3</sup> of storage is available. Therefore the total available storage provided within the swales is 398m<sup>3</sup>.



Rev	Date	Description	Drawn	Check
#	09.06.23	First Issue	SLC	SAM
A	23.06.23	Presentation updated	BF	
B	23/08/23	Layout Revision	S	
C	14/02/24	Updated parameters plan & site boundary	SLC	BF

Status

**FOR PLANNING**

Client

**Enso Green Holdings D Limited**

Project

**Helios Renewable Energy Project**

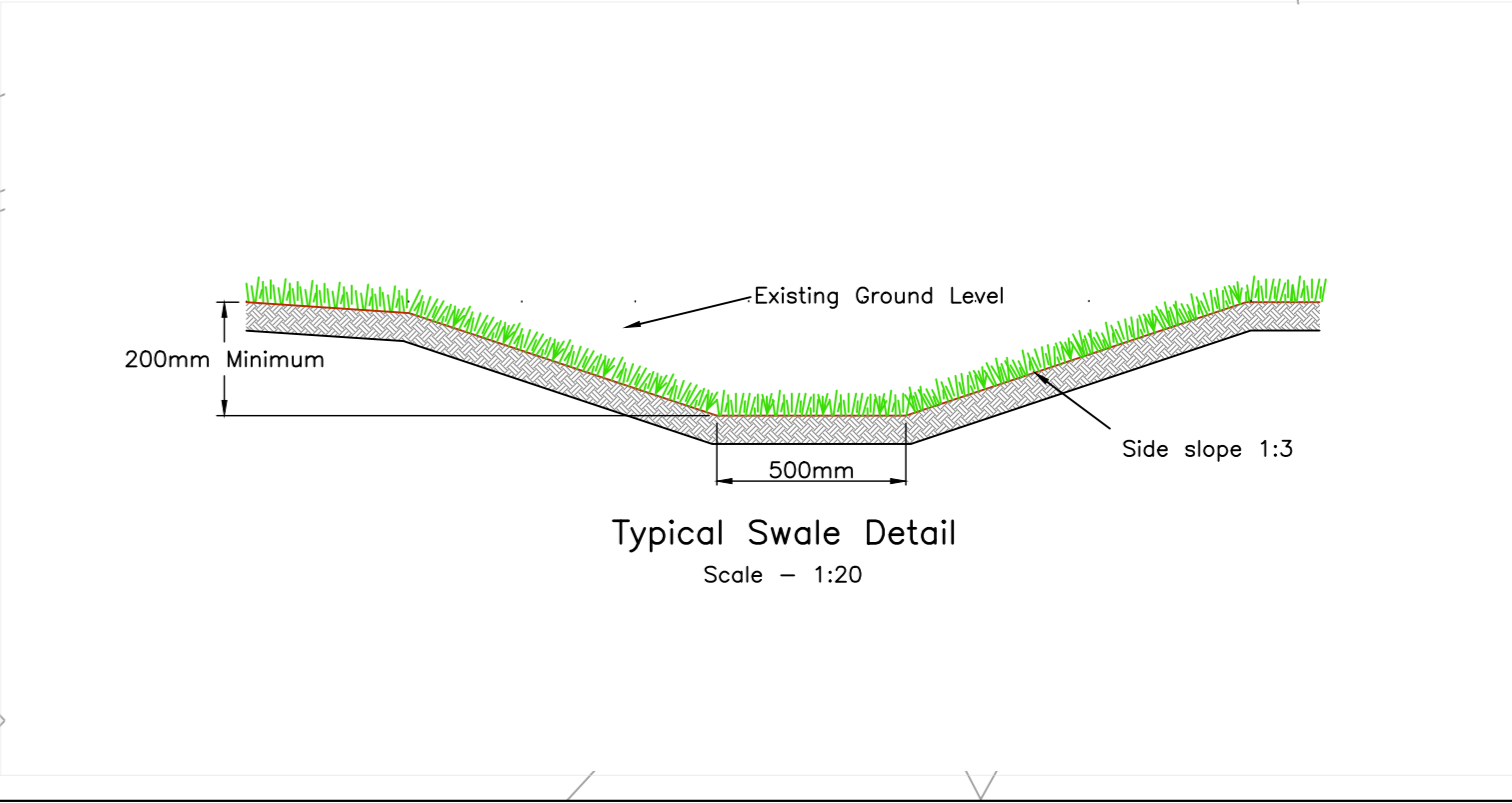
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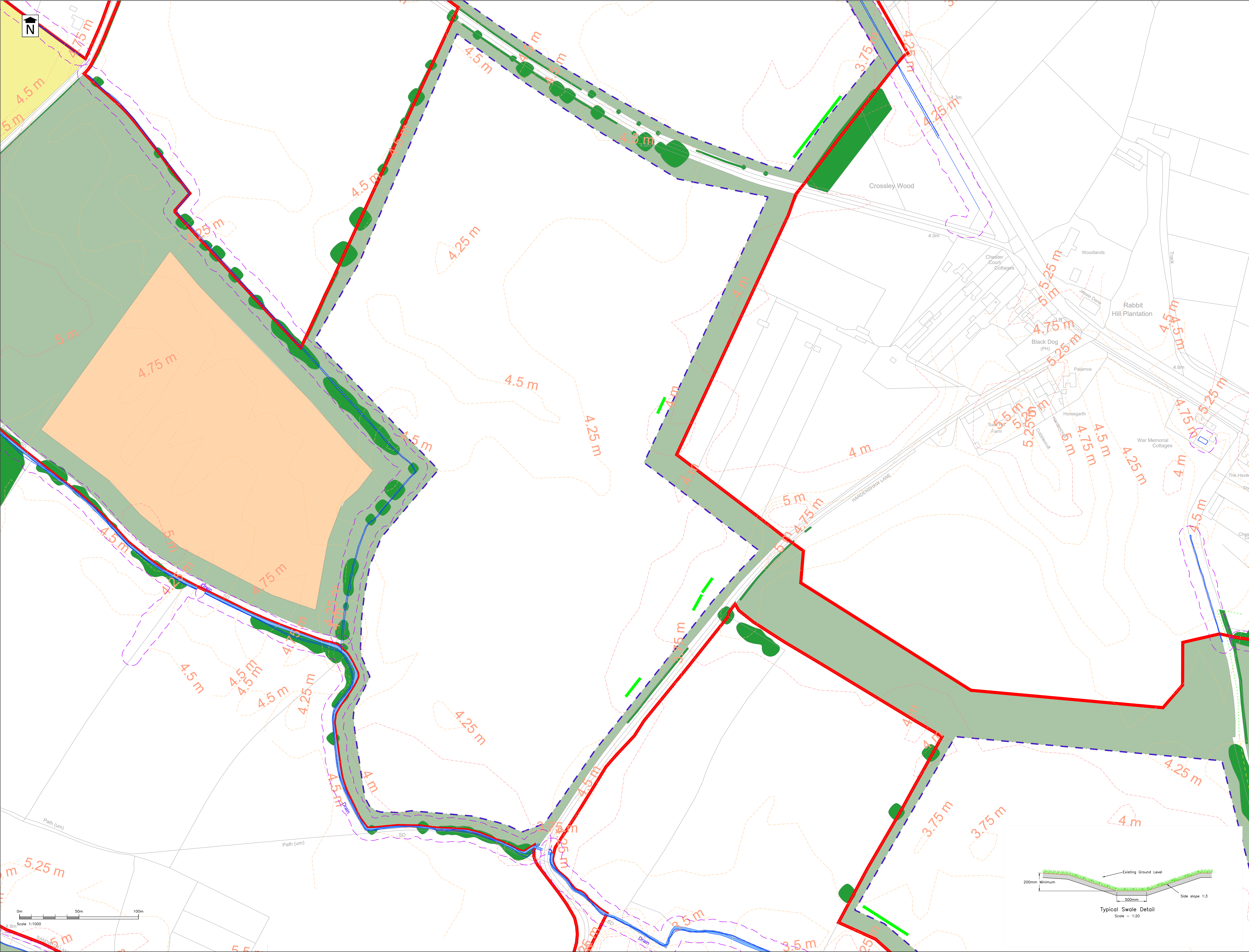
**Solar Farm Preliminary Surface Water Drainage Arrangements Sheet 8 of 17**

Drawing No. **E216/97** Rev C

Date: June 2023 Scale: 1:1000 @ A0

E-Mail: [scsngrove@pfapl.co.uk](mailto:scsngrove@pfapl.co.uk)



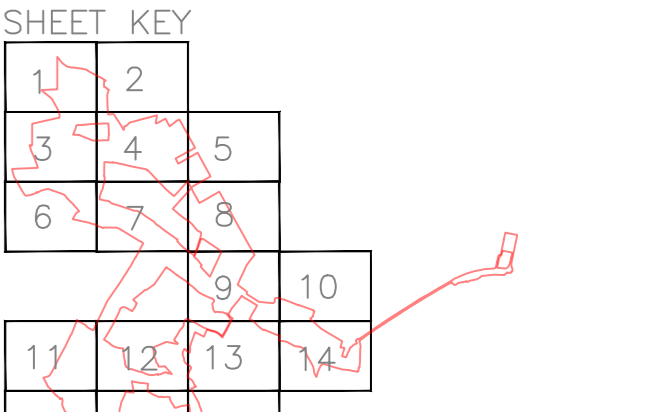


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- Site Boundary (Indicative Only)
  - Ordinary Watercourse
  - Ordinary Watercourse (IDB Maintained)
  - 7m Watercourse Buffer
  - Overland Flow Route (Indicative Only)
  - Archeological Mitigation Areas
  - Interception Swales

- NOTES
- Based on drawing DX-01-P02 Rev09 Parameter Plan by Enso Energy dated 07/02/2024
  - Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
  - Based on data from Archaeological Services WYAS Reference: X7T0\_HL022 Received 05/05/2023
  - Approximate Top of Bank based on LiDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
  - Contains public sector information licensed under the Open Government Licence v3.0.
  - 7m watercourse buffer in accordance with Selby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).
  - Total Length of swales provided = 4975m. Per metre length of swale, at 1/2 full (incorporating a 0.1m freeboard), 0.08m<sup>3</sup> of storage is available. Therefore the total available storage provided within the swales is 398m<sup>3</sup>.



Rev	Date	Description	Drawn	Check
#	09/06/23	First Issue	SLC	SAM
A	23/06/23	Preservation updated	SLC	SLC
B	23/08/23	Layout Revision	SLC	SLC
C	14/02/24	Updated parameters plan & site boundary	SLC	SLC

Status

FOR PLANNING

Client

Enso Green Holdings D Limited

Project

Helios Renewable Energy Project

Drawing Title

Solar Farm Preliminary Surface Water Drainage Arrangements Sheet 9 of 17

Drawing No.

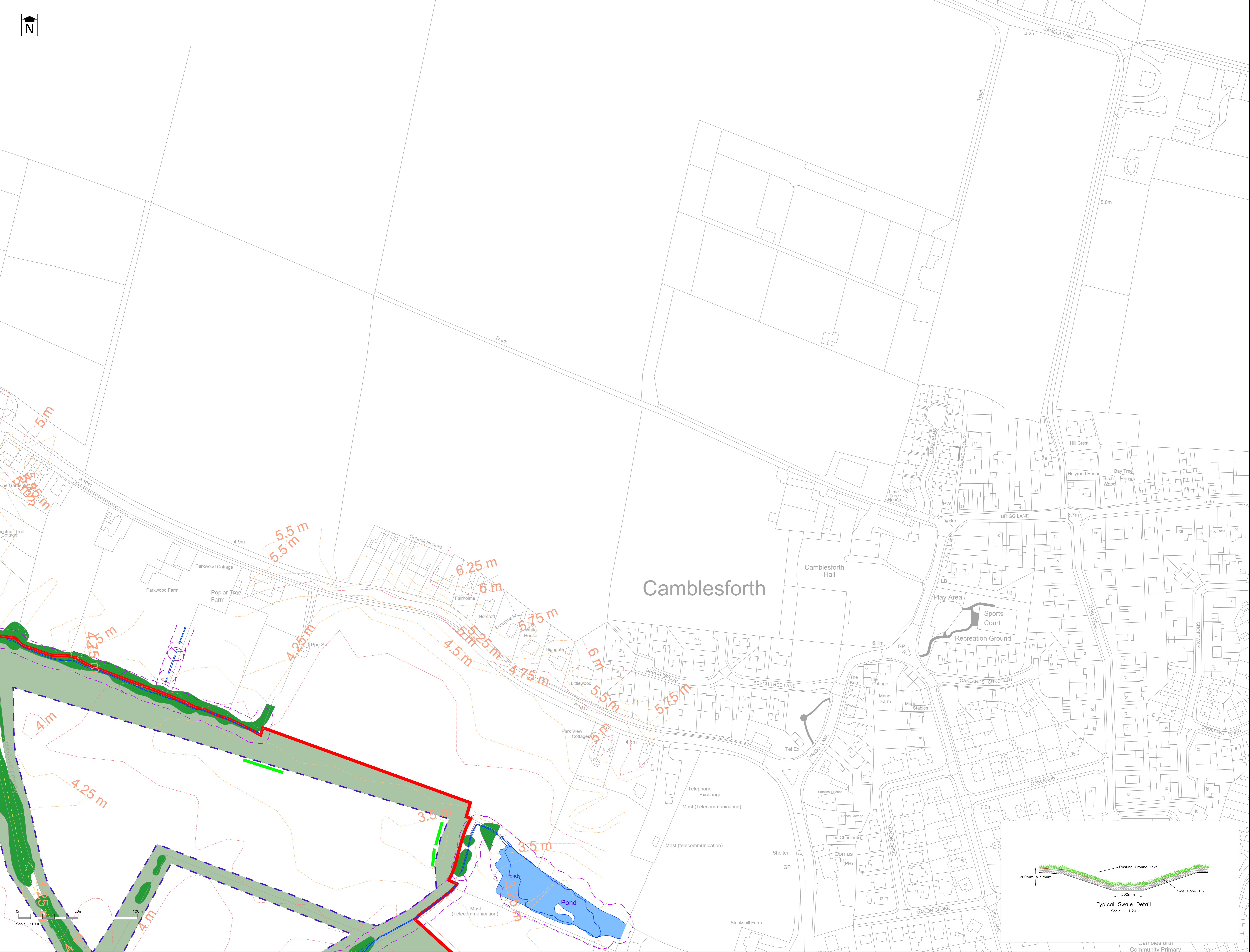
E216/98

Rev C

Date: June 2023

Scale: 1:1000 @ A0

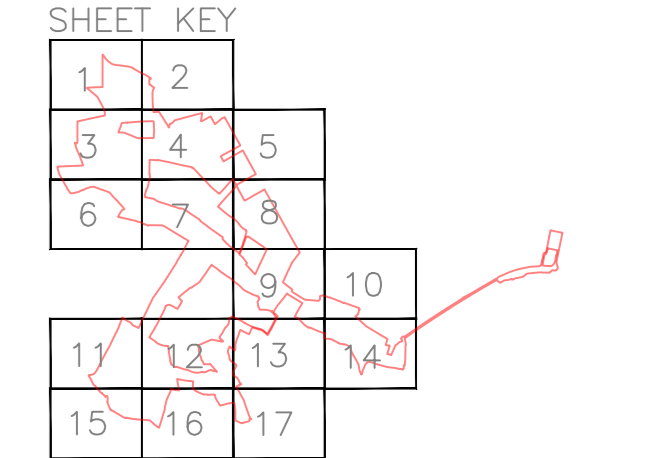
E-Mail: scosgrove@pfaplc.com



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- KEY**
- Site Boundary (Indicative Only)
  - Ordinary Watercourse
  - Ordinary Watercourse (IDB Maintained)
  - 7m Watercourse Buffer
  - Overland Flow Route (Indicative Only)
  - Archeological Mitigation Areas
  - Interception Swales

- NOTES**
- Based on drawing DX-01-P02 Rev09 Parameter Plan by Enso Energy dated 07/02/2024.
  - Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
  - Based on data from Archaeological Services WYAS Reference: XF70\_HL022 Received 05/05/2023
  - Approximate Top of Bank based on LiDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
  - Contains public sector information licensed under the Open Government Licence v3.0.
  - 7m watercourse buffer in accordance with Selby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).
  - Total Length of swales provided = 4975m. Per metre length of swale, at 1/2 full (incorporating a 0.1m freeboard), 0.08m<sup>3</sup> of storage is available. Therefore the total available storage provided within the swales is 398m<sup>3</sup>.



Rev	Date	Description	Drawn	Check
A	09.06.23	First Issue	SLC	SAW
A	23.06.23	Presentation updated	BF	
B	23/06/23	Landscape revision	IS	
C	14/02/24	Updated parameters plan & site boundary	SLC	BF

Status

FOR PLANNING

Client

Enso Green Holdings D  
Limited

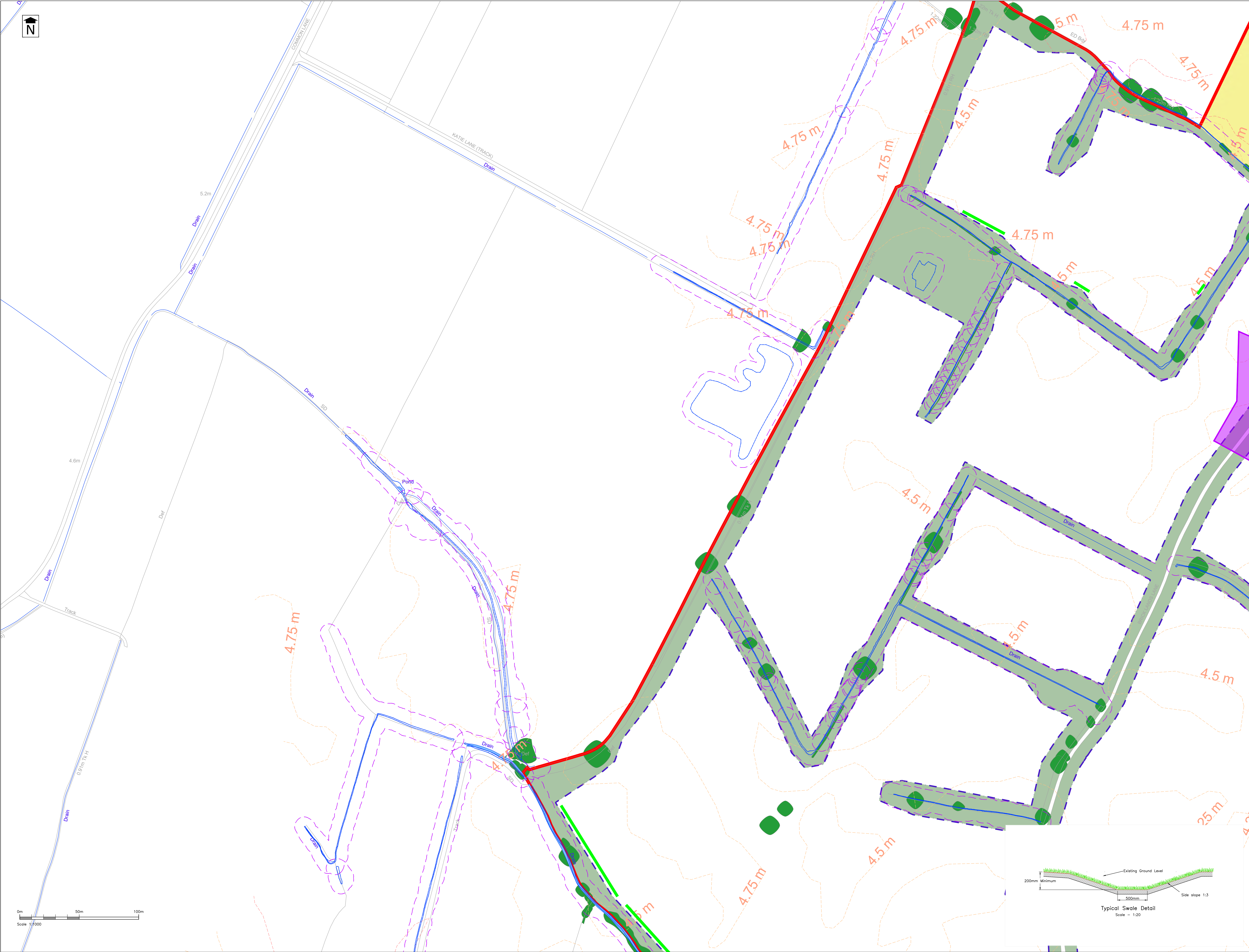
Project

Helios Renewable Energy  
Project

Drawing Title  
**Solar Farm Preliminary  
Surface Water Drainage  
Arrangements  
Sheet 10 of 17**

Drawing No. **E216/99** Rev C

Date: June 2023 Scale: 1:1000 @ A0  
E-Mail: scosgrove@pfaplac.com



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- KEY**
- Site Boundary (Indicative Only)
  - Ordinary Watercourse
  - Ordinary Watercourse (IDB Maintained)
  - 7m Watercourse Buffer
  - Overland Flow Route (Indicative Only)
  - Archaeological Mitigation Areas
  - Interception Swales

- NOTES**
- Based on drawing DX-01-P02 Rev09 Parameter Plan by Enso Energy dated 07/02/2024
  - Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
  - Based on data from Archaeological Services WYAS Reference: XF70\_HL022 Received 05/05/2023
  - Approximate Top of Bank based on LIDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
  - Contains public sector information licensed under the Open Government Licence v3.0.
  - 7m watercourse buffer in accordance with Selby Internal Drainage Board byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).
  - Total Length of swales provided = 4975m. Per metre length of swale, at 1/2 full (incorporating a 0.1m freeboard), 0.08m<sup>3</sup> of storage is available. Therefore the total available storage provided within the swales is 398m<sup>3</sup>.

**SHEET KEY**

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Rev	Date	Description	Drawn	Check
A	09/06/23	First Issue	SLC	SAM
A	23/06/23	Presentation updated	BF	
B	23/08/23	Layout Revision	IS	
C	24/02/24	Updated parameters plan & site boundary	SLC	BF

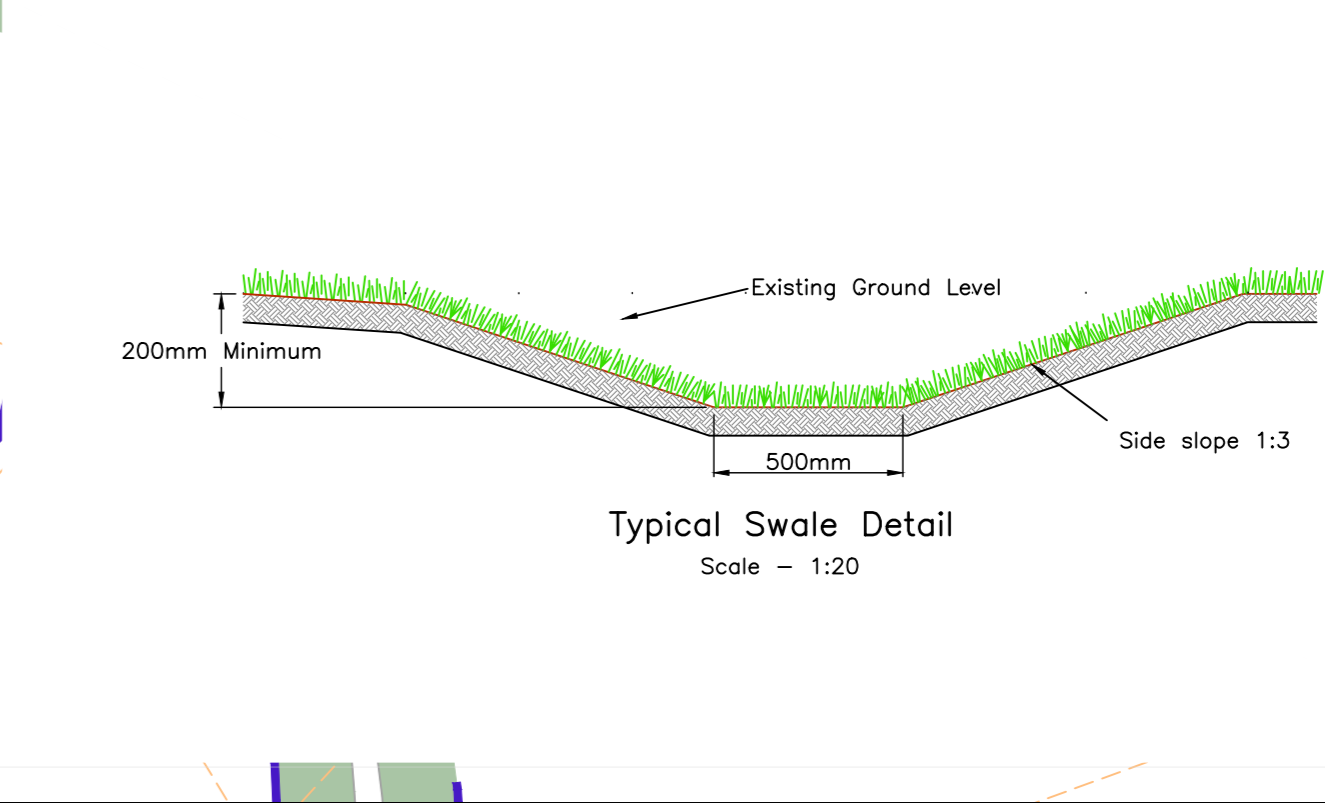
Status  
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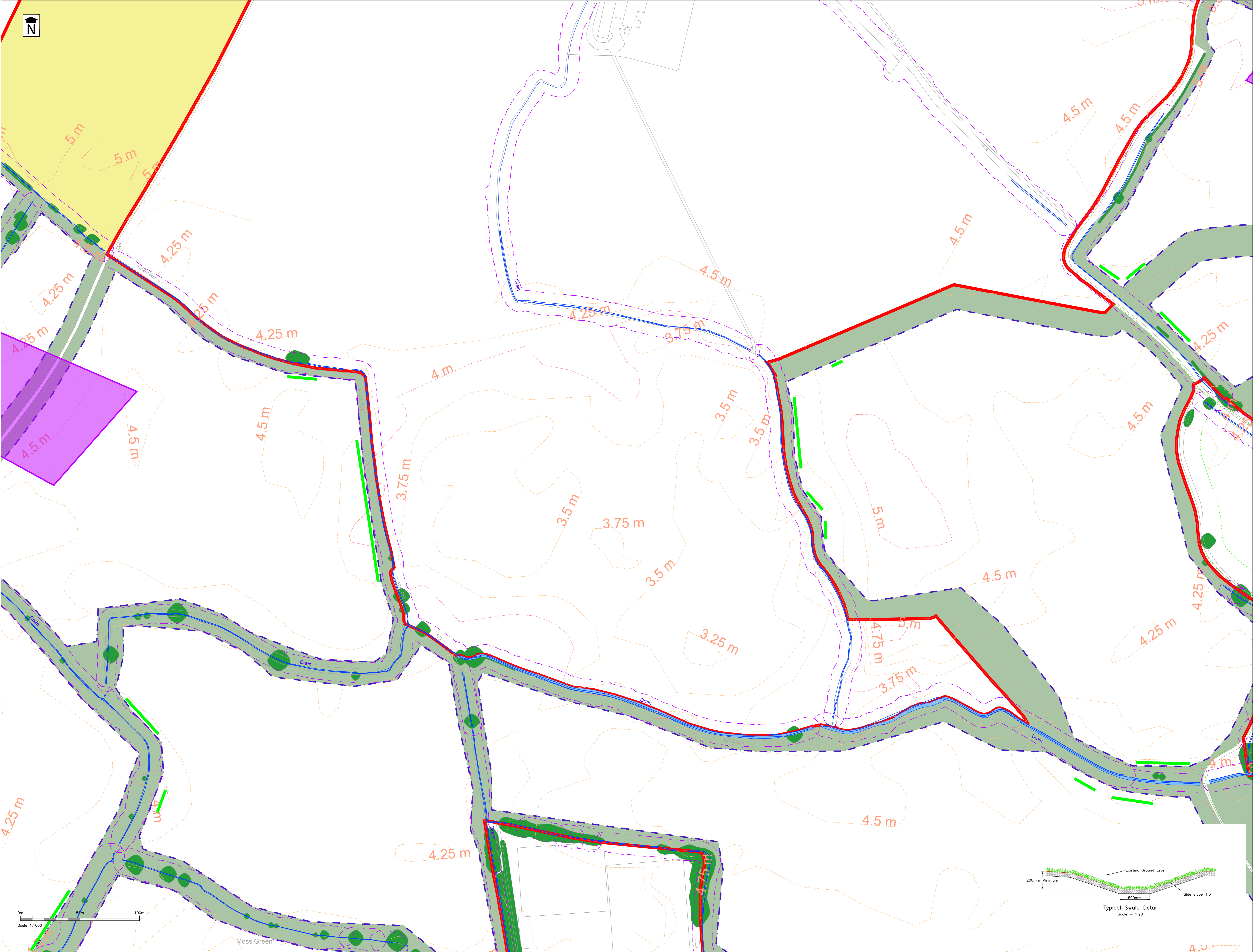
Client  
**Enso Green Holdings D Limited**

Project  
**Helios Renewable Energy Project**

Drawing Title  
**Solar Farm Preliminary Surface Water Drainage Arrangements Sheet 11 of 17**

Drawing No. **E216/100** Rev C  
Date: June 2023 Scale: 1:1000 @ A0  
E-Mail: scosgrove@pfapl.com

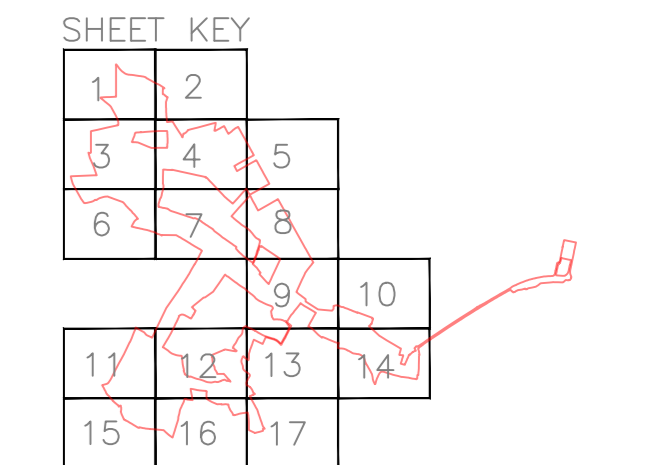




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- KEY**
- Site Boundary (Indicative Only)
  - Ordinary Watercourse
  - Ordinary Watercourse (DB Maintained)
  - 7m Watercourse Buffer
  - Overland Flow Route (Indicative Only)
  - Archaeological Mitigation Areas
  - Interception Swales

- NOTES**
- Based on drawing DX-01-P02, Rev09 Parameter Plan by Enso Energy dated 07/02/2024
  - Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
  - Based on data from Archaeological Services WYAS Reference: XF70\_HL022 Received 05/05/2023
  - Approximate Top of Bank based on LIDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
  - Contains public sector information licensed under the Open Government Licence v3.0.
  - 7m watercourse buffer in accordance with Solihull Internal Drainage Board Byelaw (Byelaw 10: No person without the previous consent of the Board shall erect any building or structure, whether temporary or permanent, or plant any tree, shrub, willow or other similar growth within 7 metres of the landward toe of the bank where there is an embankment or wall or within 7 metres of the top of the batter where there is no embankment or wall, or where the watercourse is enclosed within 7 metres of the enclosing structure).
  - Total Length of swales provided = 4975m. Per metre length of swale, at 1/2 full (incorporating a 0.1m freeboard), 0.08m³ of storage is available. Therefore the total available storage provided within the swales is 398m³.



Rev	Date	Description	Drawn	Check
A	09.06.23	First Issue	SC	SAH
A	23.06.23	Presentation updated	BF	
B	22/08/23	Layout Revision	IS	
C	14/02/24	Updated parameters plan & site boundary	SC	BF

Status **FOR PLANNING**

Client  
**Enso Green Holdings D Limited**

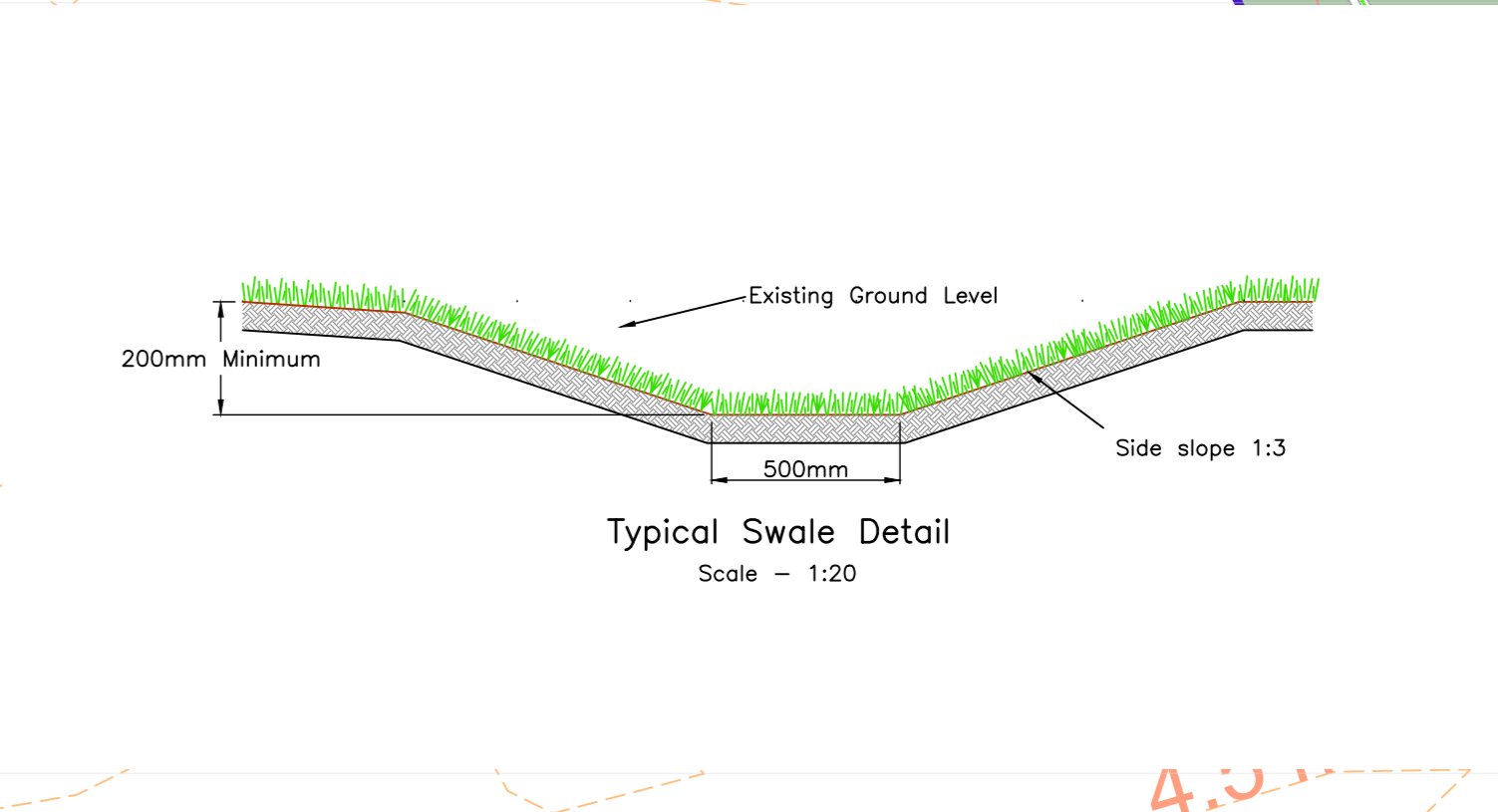
Project  
**Helios Renewable Energy Project**

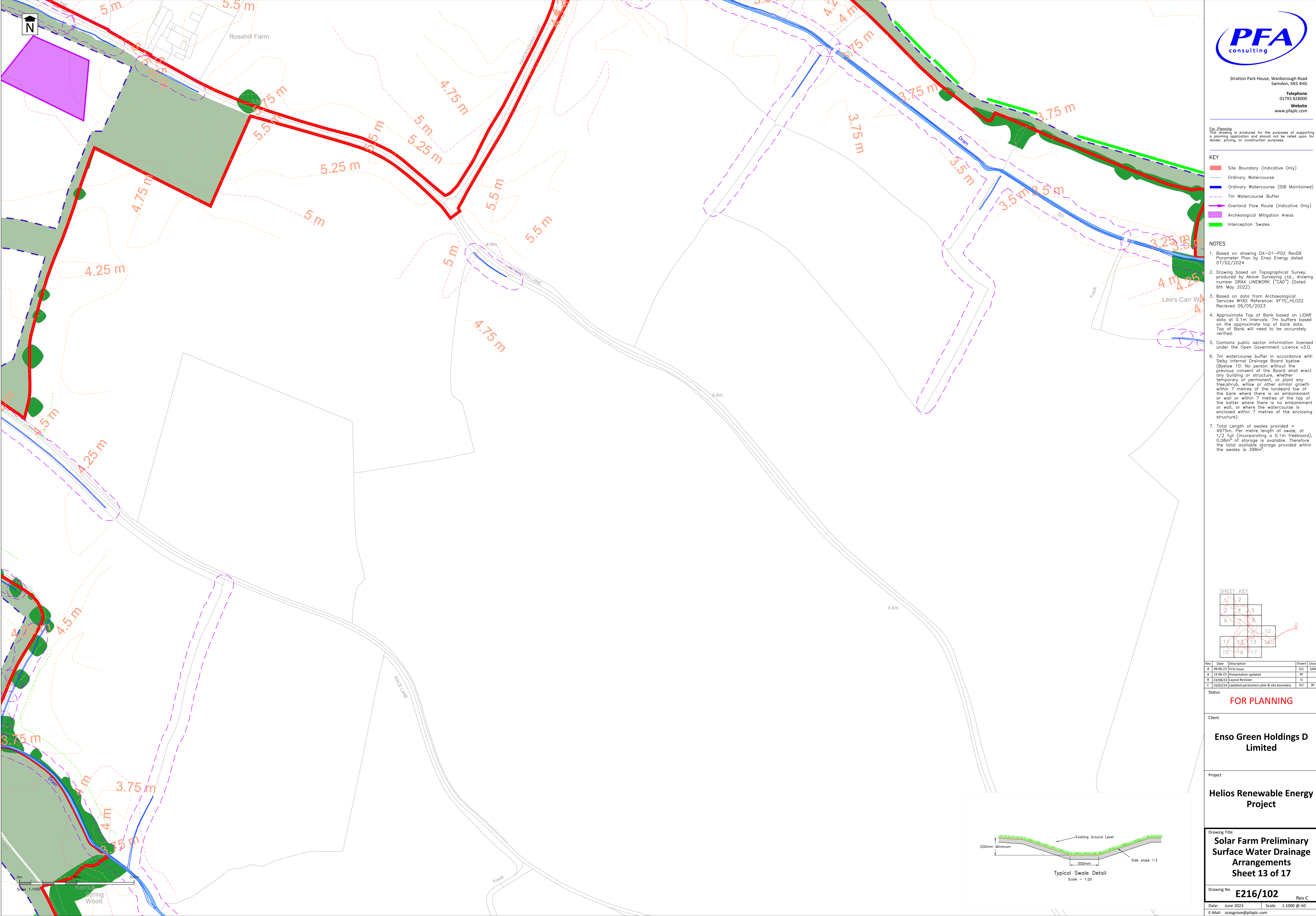
Drawing Title  
**Solar Farm Preliminary Surface Water Drainage Arrangements Sheet 12 of 17**

Drawing No. **E216/101** Rev C

Date: June 2023 Scale: 1:1000 @ A0

E-Mail: [scosgrove@pfapl.com](mailto:scosgrove@pfapl.com)

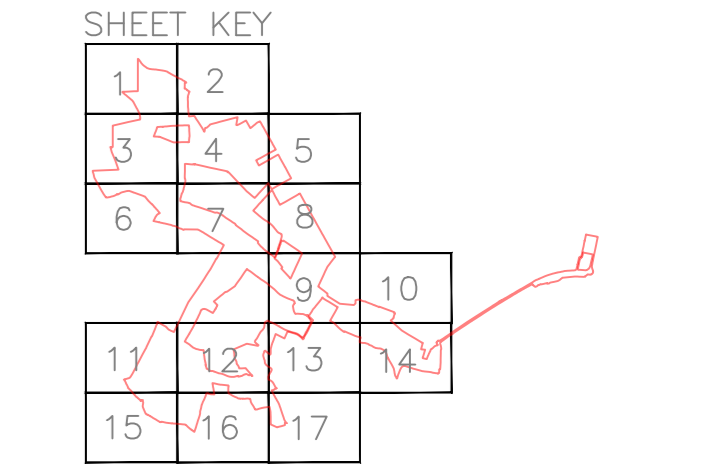




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- KEY
- Site Boundary (Indicative Only)
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  - Ordinary Watercourse (IDB Maintained)
  - 7m Watercourse Buffer
  - Overland Flow Route (Indicative Only)
  - Archaeological Mitigation Areas
  - Interception Swales

- NOTES
- Based on drawing DX-01-P02 Rev09 Parameter Plan by Enso Energy dated 07/02/2024
  - Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
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  - Approximate Top of Bank, based on LIDAR data at 0.1m intervals. 7m buffers based on the approximate top of bank data. Top of Bank will need to be accurately verified.
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  - Total Length of swales provided = 4975m. Per metre length of swale, at 1/2 full (incorporating a 0.1m freeboard), 0.08m³ of storage is available. Therefore the total available storage provided within the swales is 398m³.



Rev	Date	Description	Drawn	Check
A	09.06.23	First Issue	SLC	SAM
A	23.06.23	Presentation updated	BP	
B	23/08/23	Layout Revision	IS	
C	14/02/24	Updated parameters plan & site boundary	SLC	BP

Status  
**FOR PLANNING**

Client  
**Enso Green Holdings D Limited**

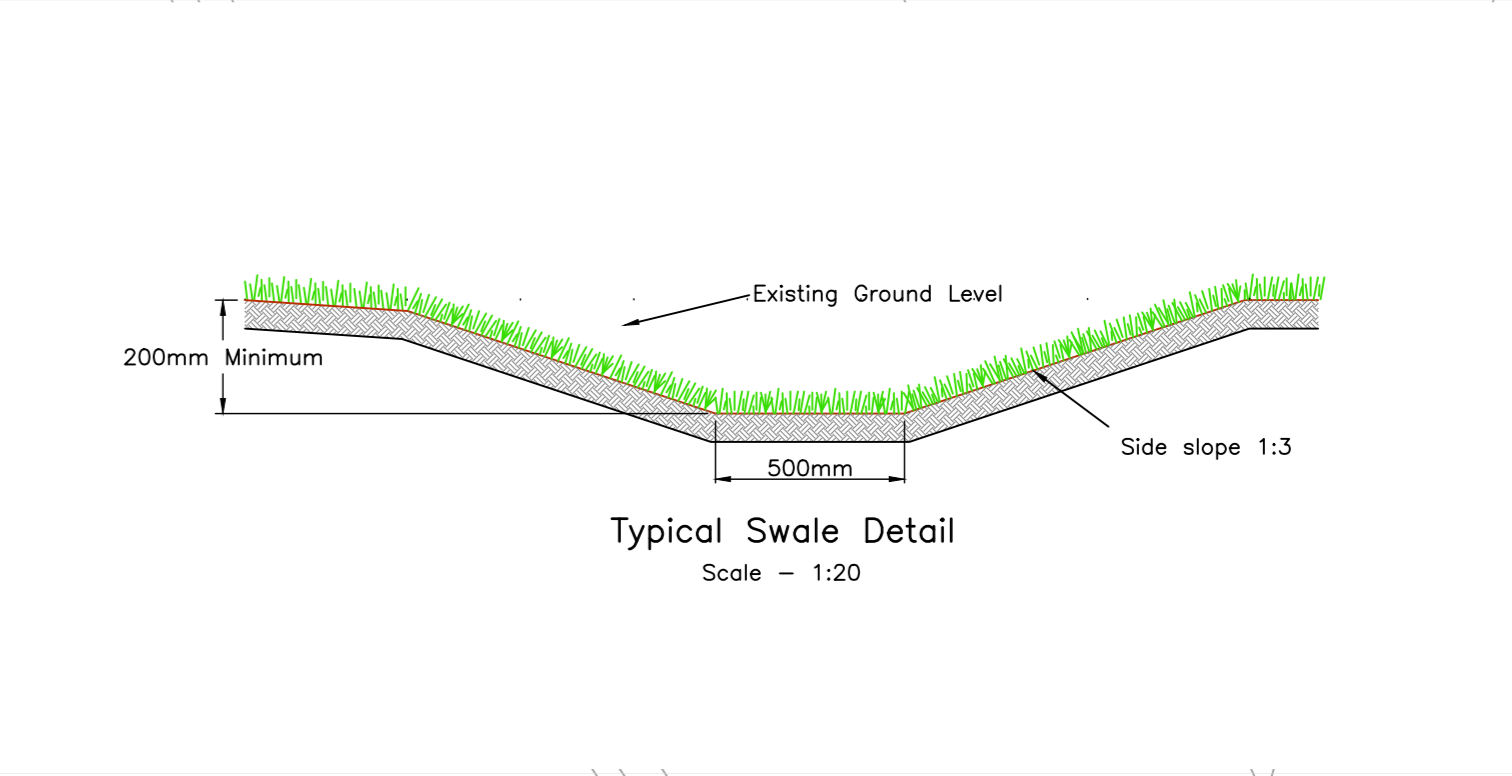
Project  
**Helios Renewable Energy Project**

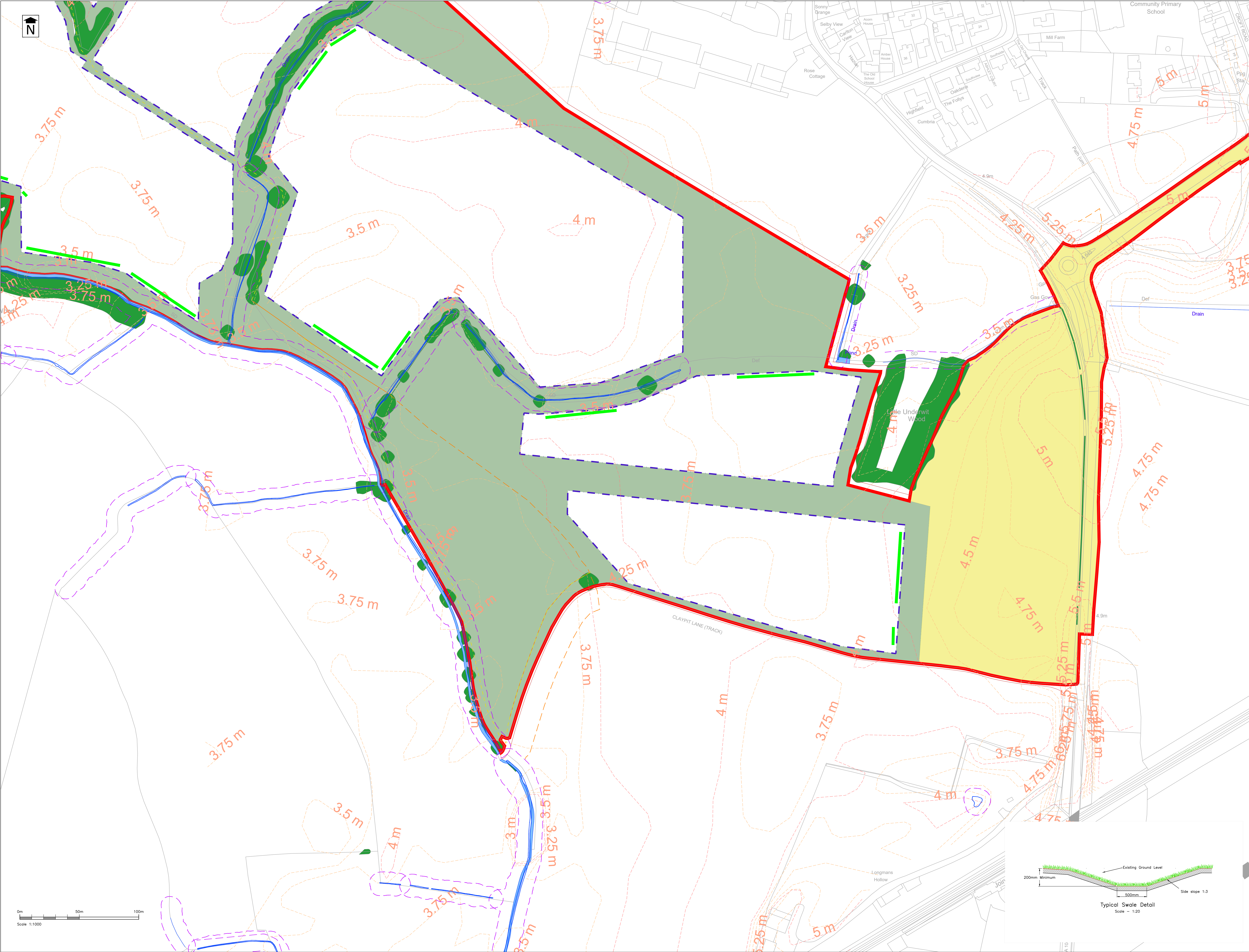
Drawing Title  
**Solar Farm Preliminary Surface Water Drainage Arrangements Sheet 13 of 17**

Drawing No. **E216/102** Rev C

Date: June 2023 Scale: 1:1000 @ A0

E-Mail: [scosgrove@pfapl.com](mailto:scosgrove@pfapl.com)

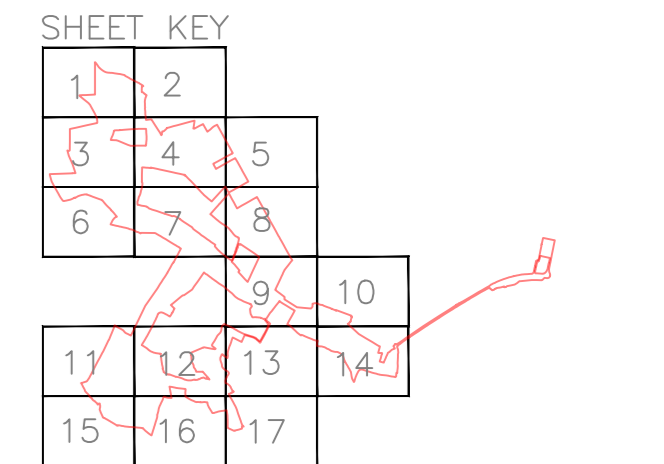




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  - Interception Swales

- NOTES**
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  - Drawing based on Topographical Survey, produced by Above Surveying Ltd., drawing number DRAX LINEWORK ("CAD") (Dated 6th May 2022).
  - Based on data from Archaeological Services WYAS Reference: XF70\_HLO22 Received 05/05/2023.
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Rev	Date	Description	Drawn	Check
#	09.06.18	First Issue	SLC	SAM
A	23.06.23	Presentation updated	BF	
B	23/08/23	Layout Revision	IS	
C	14/02/24	Updated parameters plan & site boundary	SLC	BF

Status  
**FOR PLANNING**

Client

**Enso Green Holdings D Limited**

Project

**Helios Renewable Energy Project**

Drawing Title  
**Solar Farm Preliminary Surface Water Drainage Arrangements Sheet 14 of 17**

Drawing No. **E216/103** Rev C  
Date: June 2023 Scale: 1:1000 @ A0  
E-Mail: scosgrove@pfaplc.com