



# SUNNICA ENERGY FARM

EN010106

8.77 Environmental Masterplan (Zoomed In)

Planning Act 2008

Infrastructure Planning (Examination Procedure) Rules 2010



Planning Act 2008

**Infrastructure Planning  
(Examination Procedure) Rules 2010**

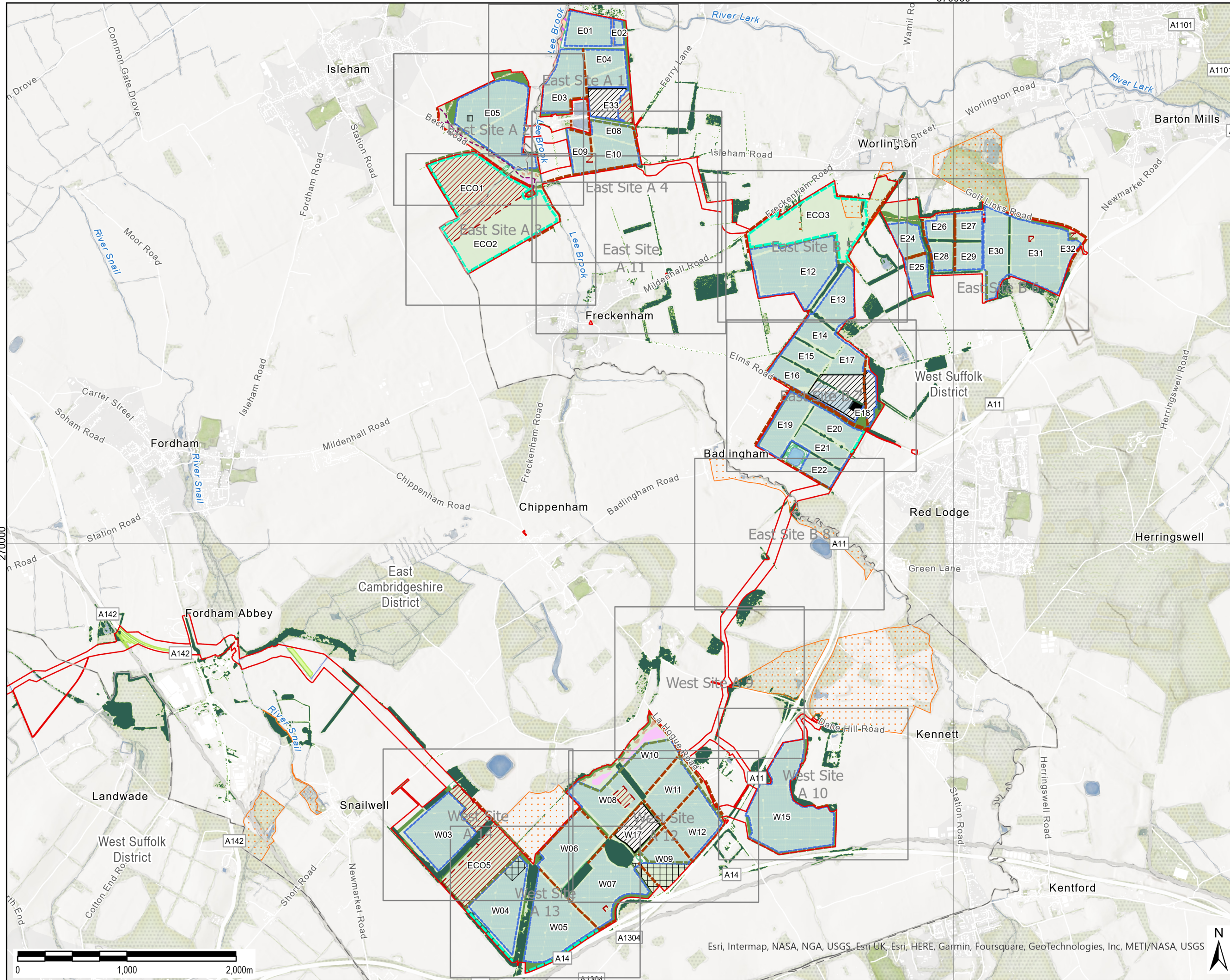
**Sunnica Energy Farm**

**8.77 Environmental Masterplan (Zoomed In)**

<b>Planning Inspectorate Scheme Reference</b>	EN010106
<b>Application Document Reference</b>	EN010106/APP/8.77
<b>Author</b>	Sunnica Energy Farm Project Team

<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
Rev 00	13 January 2023	Submitted at Deadline 5
Rev 00	03 March 2023	Submitted at Deadline 7





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LEGEND

- District Boundary
- Existing features
  - Retained hedgerow
  - Trees to be retained\*
  - Grassland
  - Purple moor grass and rush pasture
  - Waterbodies and watercourses
  - County Wildlife Site
  - Archaeological exclusion area
  - Archaeological Constraints
- Proposed Scheme features
  - The Order Limits
  - Security fence (up to 2.5m in height)
  - Environmental fence
  - Solar panels
  - BESS and Substation
  - Compound
  - Self binding gravel
  - Permissive Path
- Proposed habitats
  - Grassland
  - Mixed scrub
  - Woodland (new planting and natural regeneration, or inter-planting within existing vegetation)
  - Rush pasture
  - Native hedgerow; Species Rich

\*please refer to the Arboricultural Impact Assessment for detailed information

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NOTE: Document Reference: EN010106/APPI/6.3 APFF Regulation: 5(2)(a)

Existing vegetation along the Cable Route alignment which is required to be removed during the construction phase would be replaced with the same species.

Purpose of Issue FOR DCO EXAMINATION

Client SUNNICA LTD



Drawing Title ENVIRONMENTAL MASTERPLAN OVERVIEW PLANS

KEY PLAN

Drawn TZ	Checked KA	Approved JR	Date 27/02/2023
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AECOM Internal Project No. 60589004 Scale @ A3 1:32,000

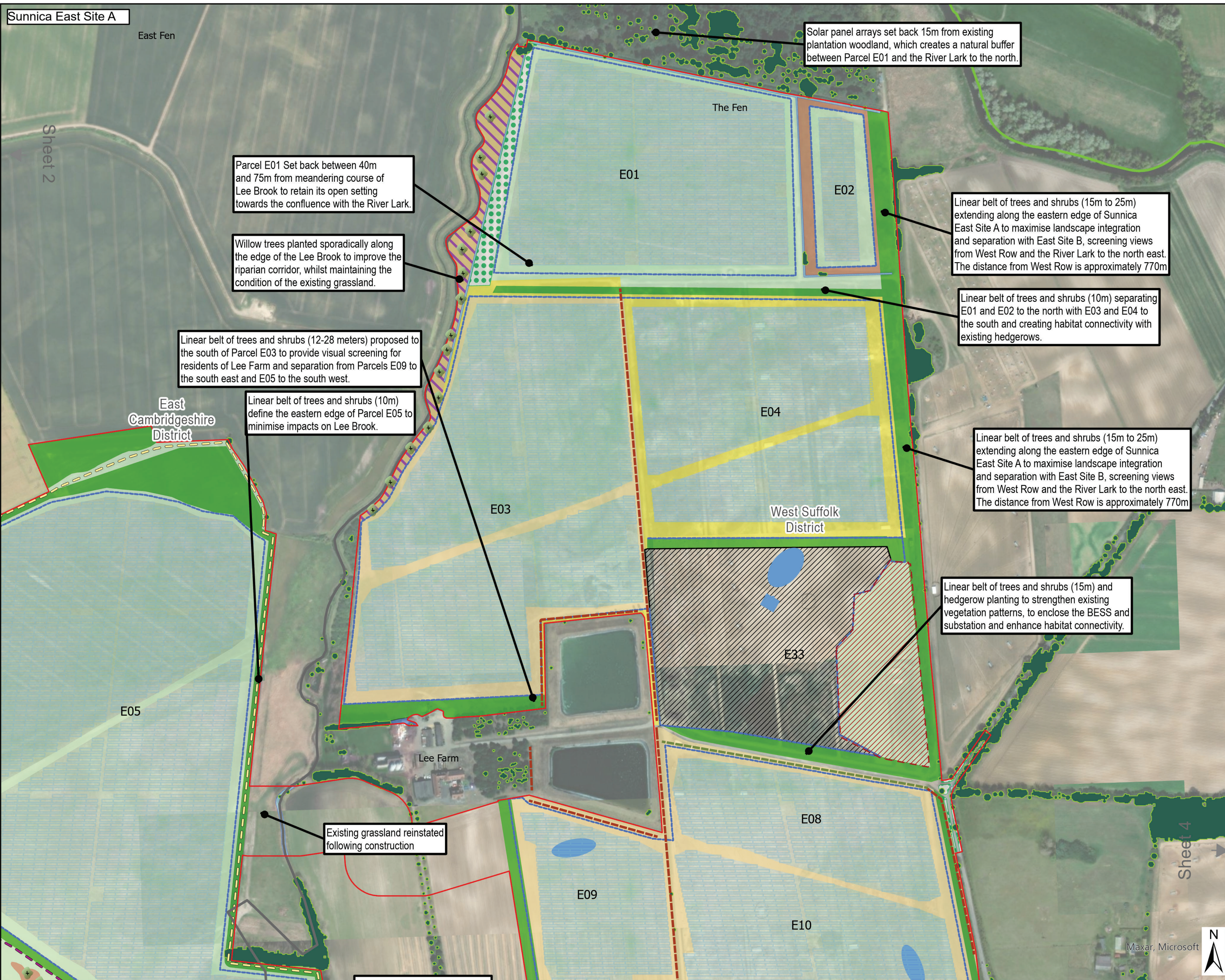
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Parcel E01 Set back between 40m and 75m from meandering course of Lee Brook to retain its open setting towards the confluence with the River Lark.

Willow trees planted sporadically along the edge of the Lee Brook to improve the riparian corridor, whilst maintaining the condition of the existing grassland.

Linear belt of trees and shrubs (12-28 meters) proposed to the south of Parcel E03 to provide visual screening for residents of Lee Farm and separation from Parcels E09 to the south east and E05 to the south west.

Linear belt of trees and shrubs (10m) define the eastern edge of Parcel E05 to minimise impacts on Lee Brook.

Solar panel arrays set back 15m from existing plantation woodland, which creates a natural buffer between Parcel E01 and the River Lark to the north.

Linear belt of trees and shrubs (15m to 25m) extending along the eastern edge of Sunnica East Site A to maximise landscape integration and separation with East Site B, screening views from West Row and the River Lark to the north east. The distance from West Row is approximately 770m

Linear belt of trees and shrubs (10m) separating E01 and E02 to the north with E03 and E04 to the south and creating habitat connectivity with existing hedgerows.

Linear belt of trees and shrubs (15m to 25m) extending along the eastern edge of Sunnica East Site A to maximise landscape integration and separation with East Site B, screening views from West Row and the River Lark to the north east. The distance from West Row is approximately 770m

Linear belt of trees and shrubs (15m) and hedgerow planting to strengthen existing vegetation patterns, to enclose the BESS and substation and enhance habitat connectivity.

Existing grassland reinstated following construction

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- District Boundary
- Existing features**
- - - Retained hedgerow
- Public Right of Way (PRoW)
- Trees to be retained\*
- ★ Veteran trees
- Grassland
- Purple moor grass and rush pasture
- Scrub
- Waterbodies and watercourses
- Archaeological Constraints
- Proposed Scheme features**
- Proposed tree
- The Order Limits
- Security fence (up to 2.5m in height)
- Solar panels
- Self binding gravel
- Permissive Path
- BESS and substation
- Proposed habitats**
- Grassland - lowland calcareous grassland
- Grassland - modified grassland
- Grassland - other lowland acid grassland
- Grassland - other neutral grassland
- Mixed scrub
- Woodland - see notes for type
- Native hedgerow; species rich
- Indicative SuDs features

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Existing vegetation along the Cable Route alignment which is required to be removed during the construction phase will be replaced with the same species.

Purpose of Issue  
**FOR DCO EXAMINATION**

Client  
**SUNNICA LTD**

Project Title

Drawing Title  
**ENVIRONMENTAL MASTERPLAN  
 DETAILED PLANS  
 SHEET 1  
 EAST SITE A**

Drawn TZ	Checked KA	Approved JR	Date 24/02/2023
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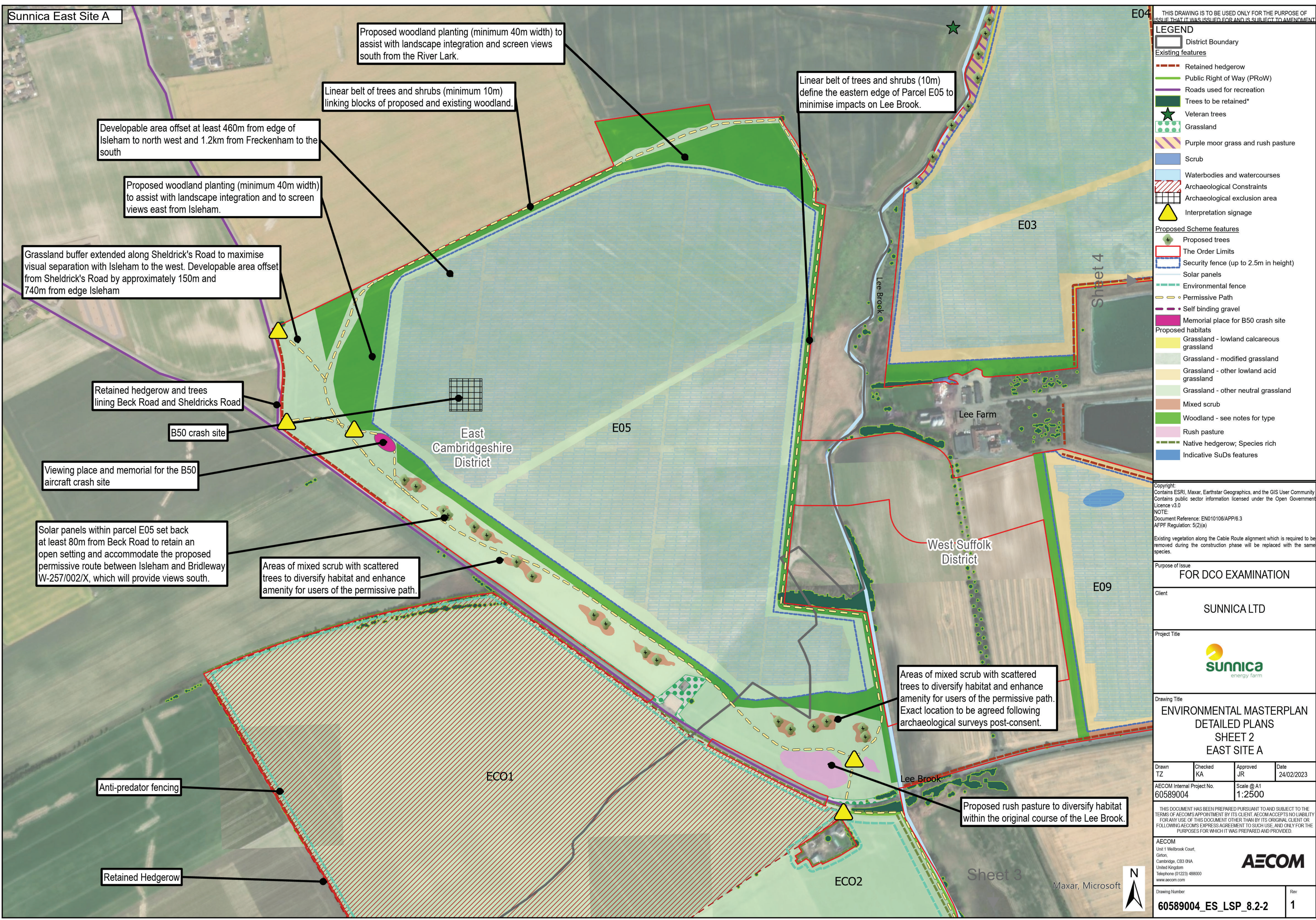
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- District Boundary
  - Existing features
    - Retained hedgerow
    - Public Right of Way (PRoW)
    - Roads used for recreation
    - Trees to be retained\*
    - Veteran trees
    - Grassland
    - Purple moor grass and rush pasture
    - Scrub
    - Waterbodies and watercourses
    - Archaeological Constraints
    - Archaeological exclusion area
    - Interpretation signage
  - Proposed Scheme features
    - Proposed trees
    - The Order Limits
    - Security fence (up to 2.5m in height)
    - Solar panels
    - Environmental fence
    - Permissive Path
    - Self binding gravel
    - Memorial place for B50 crash site
  - Proposed habitats
    - Grassland - lowland calcareous grassland
    - Grassland - modified grassland
    - Grassland - other lowland acid grassland
    - Grassland - other neutral grassland
    - Mixed scrub
    - Woodland - see notes for type
    - Rush pasture
    - Native hedgerow; Species rich
    - Indicative SuDs features

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Purpose of Issue  
**FOR DCO EXAMINATION**

Client  
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Drawing Title  
**ENVIRONMENTAL MASTERPLAN  
 DETAILED PLANS  
 SHEET 2  
 EAST SITE A**

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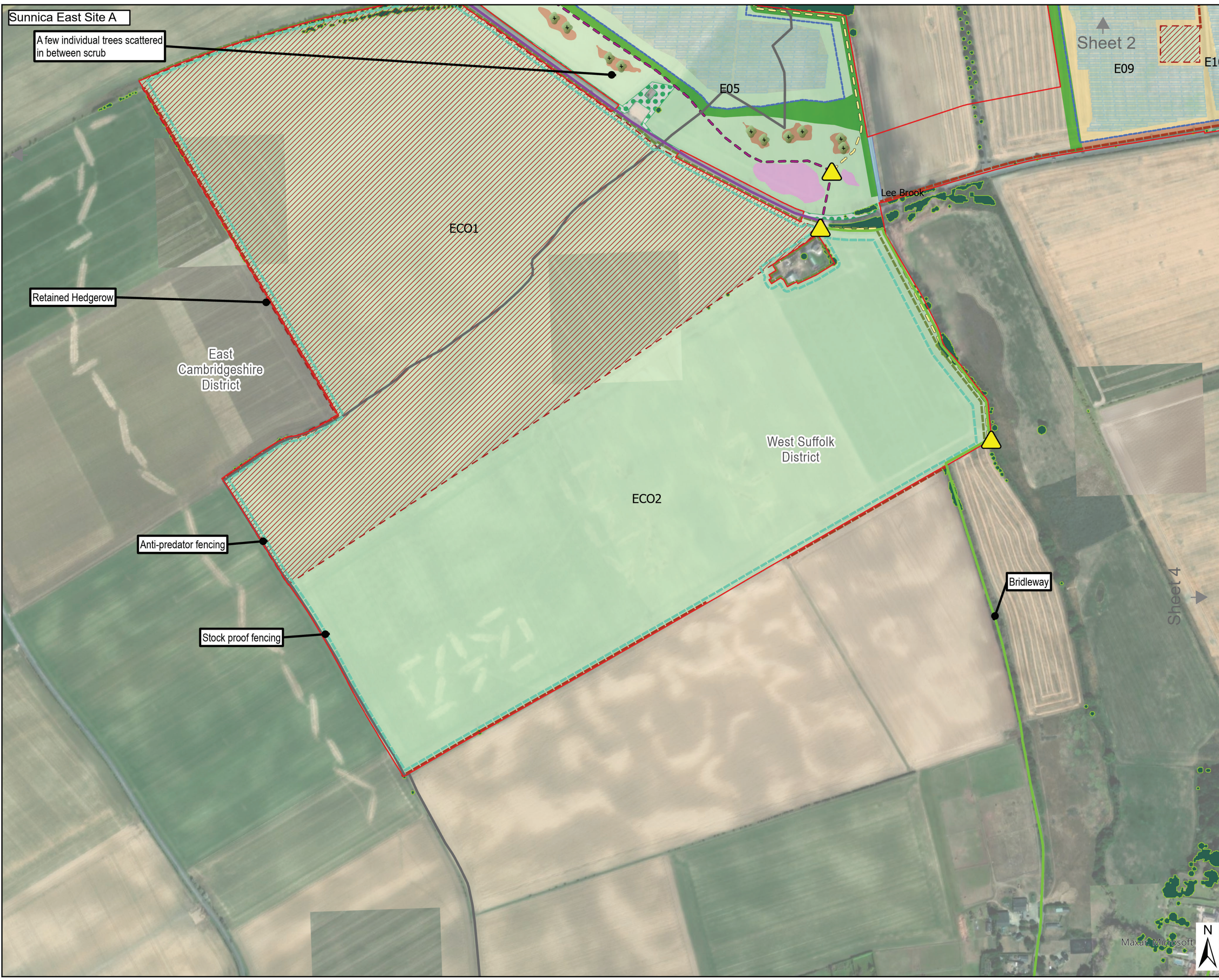


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Maxar, Microsoft





Sunnica East Site A

A few individual trees scattered in between scrub

Retained Hedgerow

Anti-predator fencing

Stock proof fencing

East Cambridgeshire District

West Suffolk District

ECO1

ECO2

E05

Sheet 2  
E09

E10

Lee Brook

Bridleway

Sheet 4

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**LEGEND**

- District Boundary
- Existing features**
- Retained hedgerow
- Public Right of Way (PRoW)
- Roads used for recreation
- Trees to be retained\*
- Grassland
- Waterbodies and watercourses
- Archaeological Constraints
- Proposed Scheme features**
- Proposed trees
- The Order Limits
- Security fence (up to 2.5m in height)
- Solar panels
- Environmental fence
- Permissive Path
- Self binding gravel
- Proposed habitats**
- Grassland - modified grassland
- Grassland - other lowland acid grassland
- Grassland - other neutral grassland
- Mixed scrub
- Woodland - see notes for type
- Rush pasture
- Native hedgerow; Species rich

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Purpose of Issue  
**FOR DCO EXAMINATION**

Client  
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Drawing Title  
**ENVIRONMENTAL MASTERPLAN  
DETAILED PLANS  
SHEET 3  
EAST SITE A**

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**LEGEND**

**District Boundary**

**Existing features**

- Retained hedgerow
- Public Right of Way (PROW)
- Roads used for recreation
- Trees to be retained\*
- Grassland
- Scrub
- Waterbodies and watercourses
- Archaeological Constraints
- Interpretation signage

**Proposed Scheme features**

- Proposed trees
- The Order Limits
- Security fence (up to 2.5m in height)
- BESS and substation
- Solar panels
- Environmental fence
- Permissive Path

**Proposed habitats**

- Grassland - lowland calcareous grassland
- Grassland - modified grassland
- Grassland - other lowland acid grassland
- Grassland - other neutral grassland
- Mixed scrub
- Woodland - see notes for type
- Rush pasture
- Native hedgerow; Species rich
- Indicative SuDs features

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Purpose of Issue  
**FOR DCO EXAMINATION**

Client  
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Drawing Title  
**ENVIRONMENTAL MASTERPLAN  
 DETAILED PLANS  
 SHEET 4  
 EAST SITE A**

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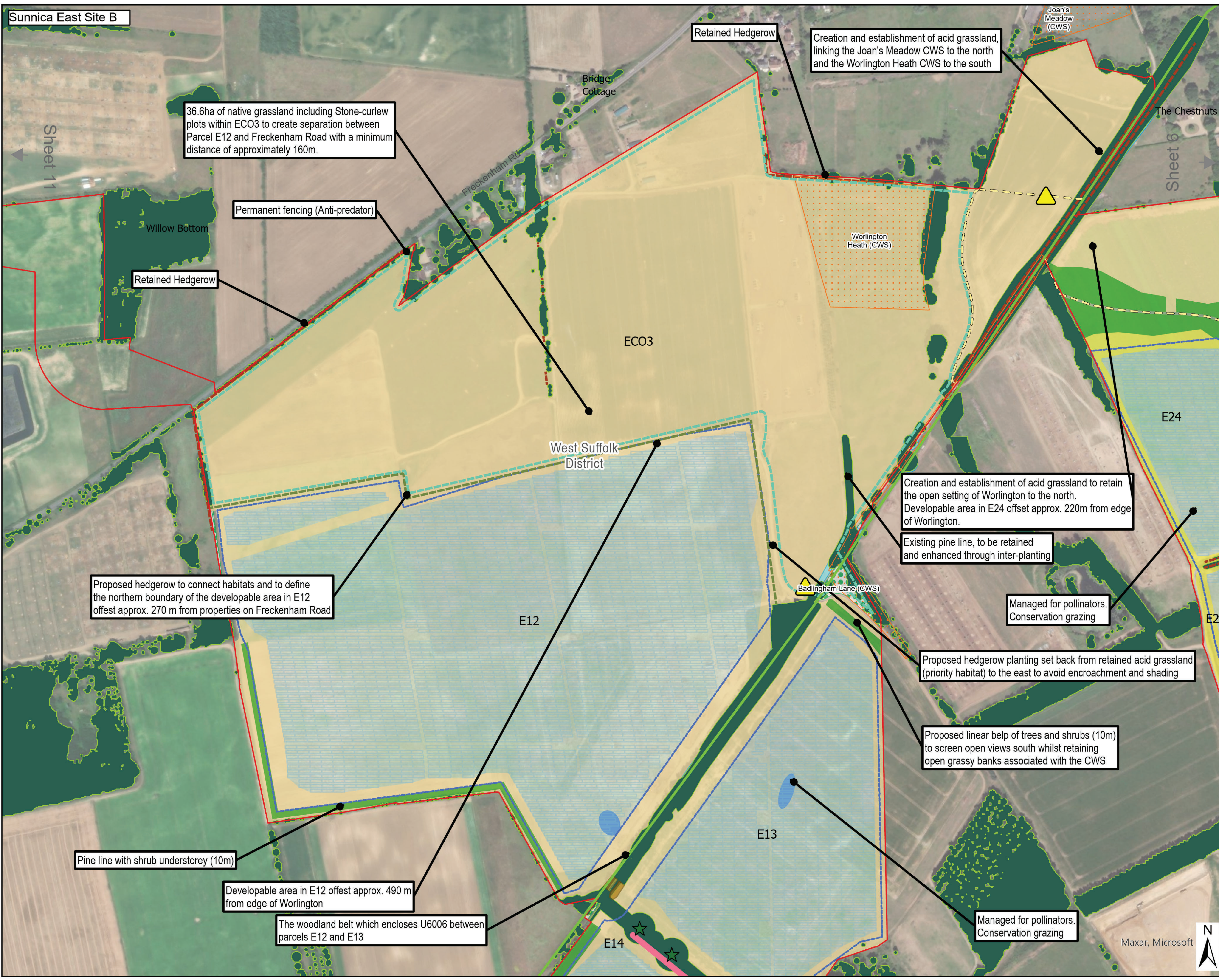
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File Name:





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**LEGEND**

District Boundary

**Existing features**

- Retained hedgerow
- Public Right of Way (PROW)
- Trees to be removed\*
- Trees to be retained\*
- Veteran trees
- Tree Preservation Order
- Grassland
- County Wildlife Site
- Interpretation signage

**Proposed Scheme features**

- The Order Limits
- Security fence (up to 2.5m in height)
- Solar panels
- Environmental fence
- Permissive Path
- Arable field margins pollen and nectar

**Proposed habitats**

- Grassland - lowland calcareous grassland
- Grassland - modified grassland
- Grassland - other lowland acid grassland
- Woodland - see notes for type
- Native hedgerow; Species rich
- Indicative SuDs features

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Purpose of Issue: **FOR DCO EXAMINATION**

Client: **SUNNICA LTD**



Drawing Title: **ENVIRONMENTAL MASTERPLAN DETAILED PLANS SHEET 5 EAST SITE B**

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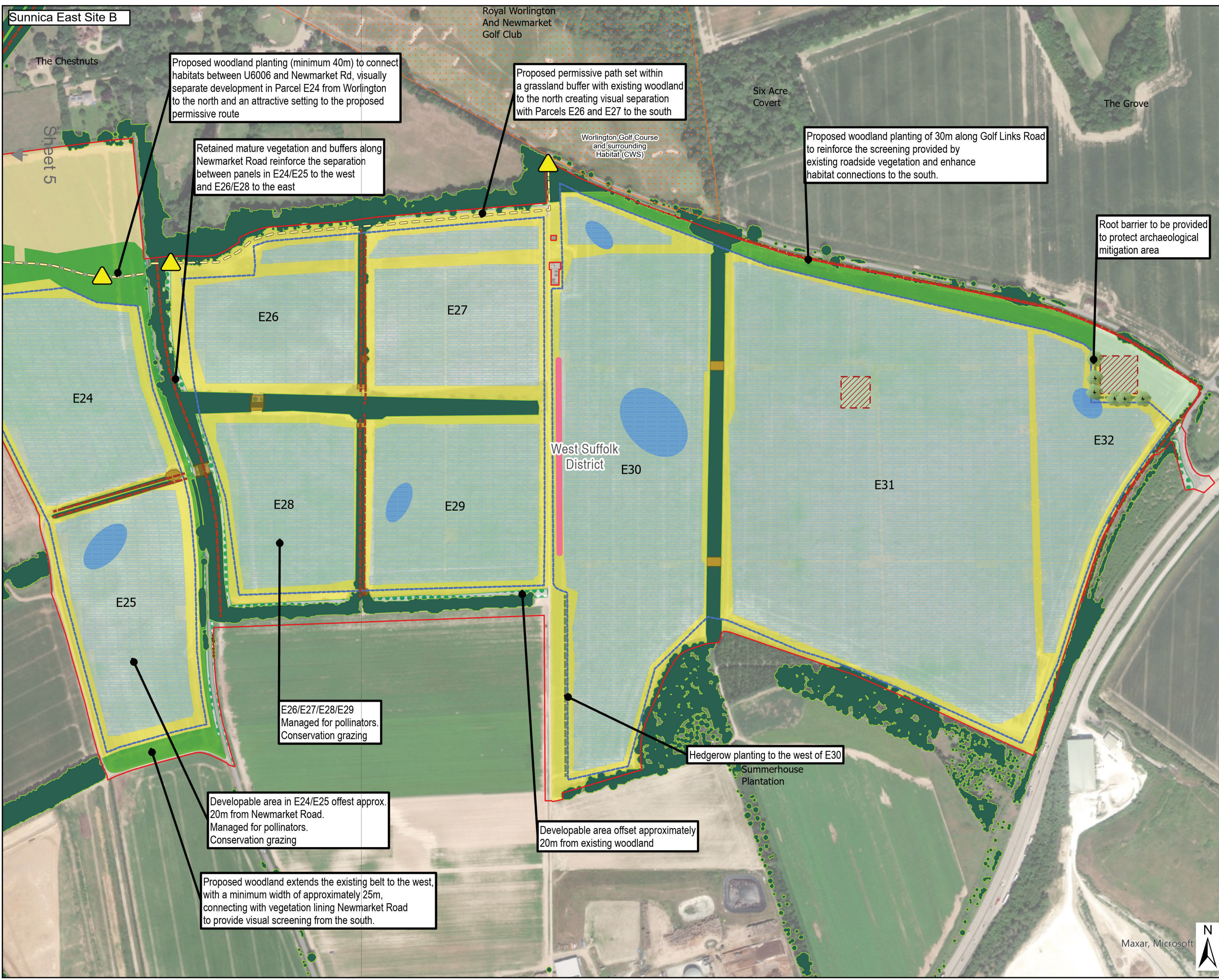
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Proposed woodland planting (minimum 40m) to connect habitats between U6006 and Newmarket Rd, visually separate development in Parcel E24 from Worlington to the north and an attractive setting to the proposed permissive route

Proposed permissive path set within a grassland buffer with existing woodland to the north creating visual separation with Parcels E26 and E27 to the south

Retained mature vegetation and buffers along Newmarket Road reinforce the separation between panels in E24/E25 to the west and E26/E28 to the east

Proposed woodland planting of 30m along Golf Links Road to reinforce the screening provided by existing roadside vegetation and enhance habitat connections to the south.

Root barrier to be provided to protect archaeological mitigation area

E26/E27/E28/E29  
Managed for pollinators.  
Conservation grazing

Developable area in E24/E25 offset approx. 20m from Newmarket Road.  
Managed for pollinators.  
Conservation grazing

Proposed woodland extends the existing belt to the west, with a minimum width of approximately 25m, connecting with vegetation lining Newmarket Road to provide visual screening from the south.

Developable area offset approximately 20m from existing woodland

Hedgerow planting to the west of E30

Summerhouse Plantation

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**LEGEND**

District Boundary

Existing features

- Retained hedgerow
- Public Right of Way (PRoW)
- Trees to be removed\*
- Trees to be retained\*
- Tree Preservation Order
- Grassland
- County Wildlife Site
- Archaeological Constraints
- Interpretation signage

Proposed Scheme features

- Proposed trees
- The Order Limits
- Security fence (up to 2.5m in height)
- Solar panels
- Permissive Path
- Arable field margins pollen and nectar

Proposed habitats

- Grassland - lowland calcareous grassland
- Grassland - modified grassland
- Grassland - other lowland acid grassland
- Grassland - other neutral grassland
- Woodland - see notes for type
- Native hedgerow; Species rich
- Indicative SuDs features

\*please refer to the Arboricultural Impact Assessment for detailed information

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Existing vegetation along the Cable Route alignment which is required to be removed during the construction phase will be replaced with the same species.

Purpose of Issue  
**FOR DCO EXAMINATION**

Client  
**SUNNICA LTD**

Project Title

Drawing Title  
**ENVIRONMENTAL MASTERPLAN  
DETAILED PLANS  
SHEET 6  
EAST SITE B**

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**LEGEND**

**Existing features**

- District Boundary
- Retained hedgerow
- Public Right of Way (PRoW)
- Roads used for recreation
- Trees to be removed\*
- Trees to be retained\*
- Veteran trees
- Grassland
- Waterbodies and watercourses
- County Wildlife Site
- Interpretation signage

**Proposed Scheme features**

- The Order Limits
- Security fence (up to 2.5m in height)
- Solar panels
- Environmental fence
- Permissive Path
- BESS and substation
- Compound
- Arable field margins pollen and nectar

**Proposed habitats**

- Grassland - lowland calcareous grassland
- Grassland - modified grassland
- Grassland - other lowland acid grassland
- Woodland - see notes for type

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Purpose of Issue  
**FOR DCO EXAMINATION**

Client  
**SUNNICA LTD**

Project Title  
**Sunnica energy farm**

Drawing Title  
**ENVIRONMENTAL MASTERPLAN  
DETAILED PLANS  
SHEET 7  
EAST SITE B**

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**LEGEND**

- District Boundary
- Existing features
  - Retained hedgerow
  - Trees to be retained\*
  - Veteran trees
  - Grassland
  - Waterbodies and watercourses
  - County Wildlife Site
- Proposed Scheme features
  - Proposed trees
  - The Order Limits
  - Security fence (up to 2.5m in height)
  - Solar panels
- Proposed habitats
  - Grassland - modified grassland
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  - Woodland - see notes for type
  - Rush pasture
  - Native hedgerow; Species rich
  - Indicative SuDs features

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**FOR DCO EXAMINATION**

Client  
**SUNNICA LTD**



Drawing Title  
**ENVIRONMENTAL MASTERPLAN  
DETAILED PLANS  
SHEET 9  
WEST SITE A**

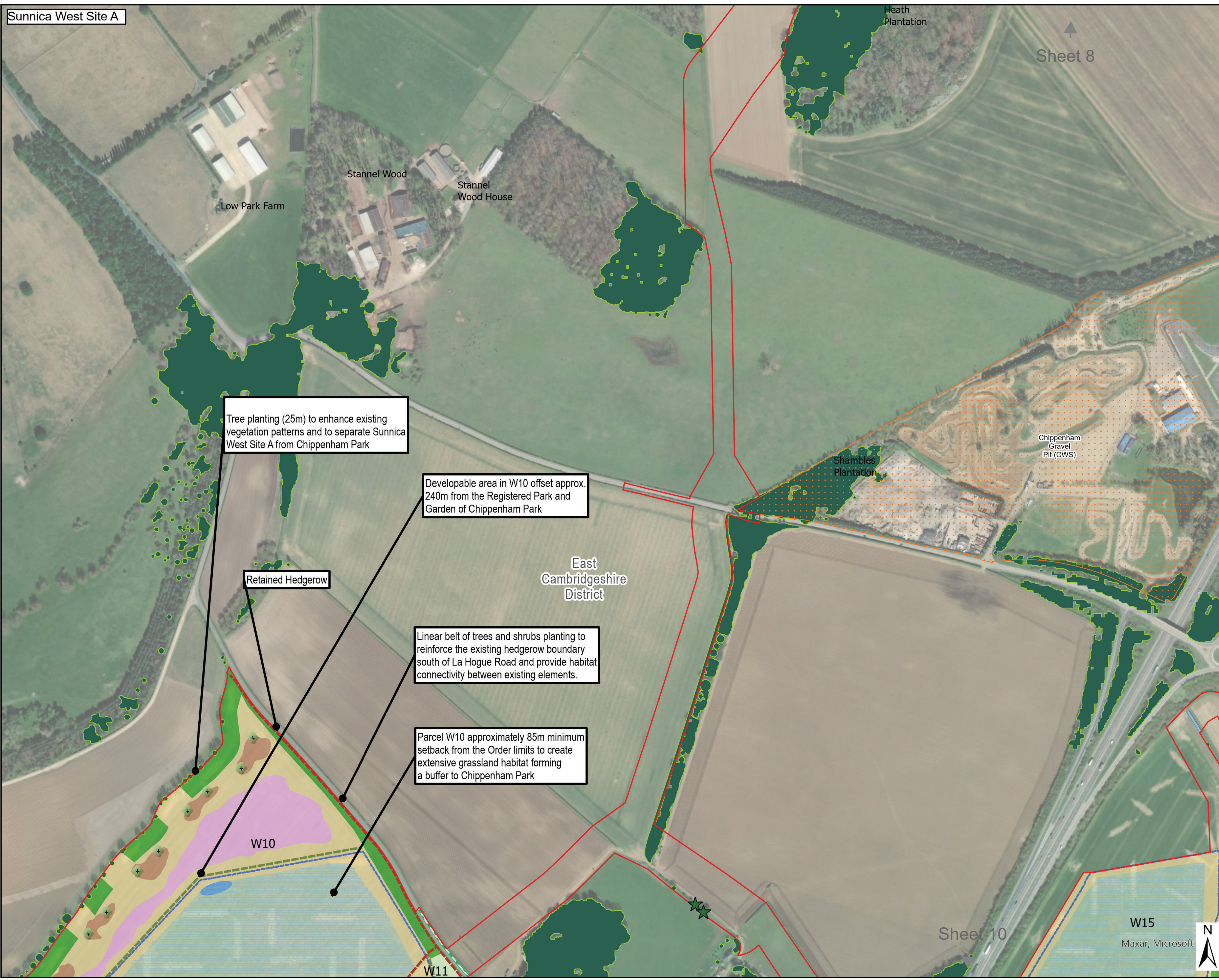
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Tree planting (25m) to enhance existing vegetation patterns and to separate Sunnica West Site A from Chippenham Park

Developable area in W10 offset approx. 240m from the Registered Park and Garden of Chippenham Park

Retained Hedgerow

Linear belt of trees and shrubs planting to reinforce the existing hedgerow boundary south of La Hogue Road and provide habitat connectivity between existing elements.

Parcel W10 approximately 85m minimum setback from the Order limits to create extensive grassland habitat forming a buffer to Chippenham Park

East  
Cambridgeshire  
District

W10

W11

W15  
Maxar, Microsoft

Sheet 10





Sunnica West Site A

Sheet 9

Sheet 12

A11

Dane Hill Cottages

Halfmoon Plantation Pit (CWS)

Dane Hill Farm

Proposed woodland planting (20-30 meters) to enhance habitat connectivity and visual screening for residents of Dane Hill Farm and Kennett

East Cambridgeshire District

Managed for pollinators. Conservation grazing

Halfmoon Plantation

The Willows

W15

W12

Waterhall Farm

Proposed woodland planting (18m) to provide screening to Kennett and habitat connectivity south towards the belts of vegetation lining the A14.

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    - Trees to be retained\*
    - Veteran trees
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    - County Wildlife Site
  - Proposed Scheme features
    - The Order Limits
    - Security fence (up to 2.5m in height)
    - Solar panels
  - Proposed habitats
    - Grassland - modified grassland
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    - Woodland - see notes for type
    - Native hedgerow; Species rich
    - Indicative SuDs features

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AFPF Regulation: 5(2)(a)

Existing vegetation along the Cable Route alignment which is required to be removed during the construction phase will be replaced with the same species.

Purpose of Issue  
**FOR DCO EXAMINATION**

Client  
**SUNNICA LTD**



Drawing Title  
**ENVIRONMENTAL MASTERPLAN  
DETAILED PLANS  
SHEET 10  
WEST SITE A**

Drawn TZ	Checked KA	Approved JR	Date 24/02/2023
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AECOM Internal Project No. 60589004 Scale @ A1 1:2500

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Maxar, Microsoft



File Name:





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- LEGEND**
- District Boundary
  - Existing features**
  - Retained hedgerow
  - Public Right of Way (PRoW)
  - Roads used for recreation
  - Trees to be retained\*
  - Tree Preservation Order
  - Grassland
  - Waterbodies and watercourses
  - Proposed Scheme features**
  - The Order Limits
  - Permissive Path
  - Proposed habitats**
  - Grassland - other neutral grassland
  - Woodland - see notes for type
  - Rush pasture
  - Native hedgerow; Species rich

\*please refer to the Arboricultural Impact Assessment for detailed information

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NOTE:  
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Purpose of Issue  
**FOR DCO EXAMINATION**

Client  
**SUNNICA LTD**



Drawing Title  
**ENVIRONMENTAL MASTERPLAN  
DETAILED PLANS  
SHEET 11  
EAST SITE A**

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Sheet 4

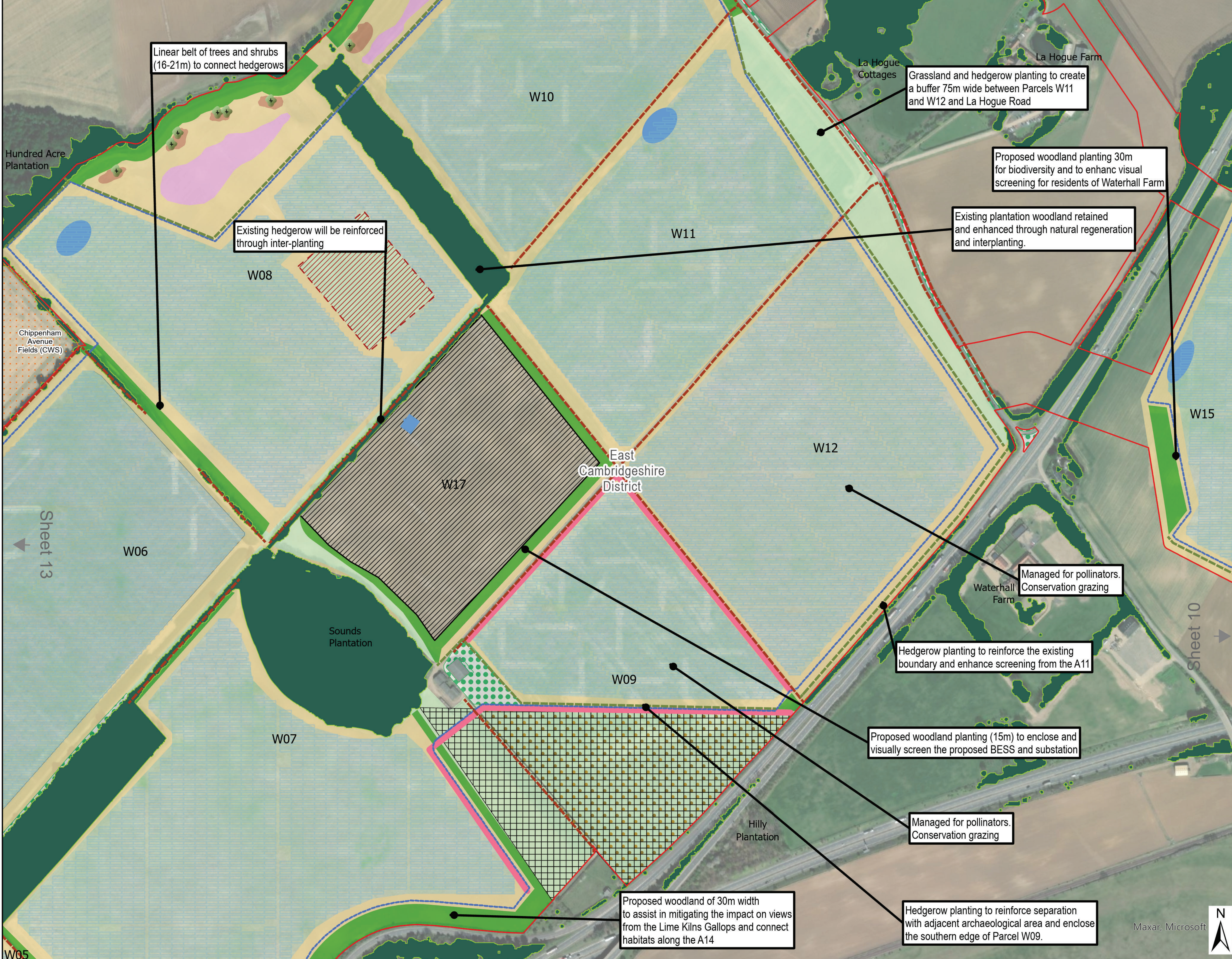
Sheet 5



Maxar, Microsoft

File Name:





**LEGEND**

District Boundary

**Existing features**

- Retained hedgerow
- Trees to be retained\*
- Grassland
- County Wildlife Site
- Archaeological exclusion area
- Archaeological Constraints

**Proposed Scheme features**

- Proposed trees
- The Order Limits
- Security fence (up to 2.5m in height)
- BESS and substation
- Solar panels
- Arable field margins pollen and nectar

**Proposed habitats**

- Grassland - modified grassland
- Grassland - other lowland acid grassland
- Grassland - other neutral grassland
- Mixed scrub
- Woodland - see notes for type
- Rush pasture
- Native hedgerow; Species rich
- Winter bird cover crop
- Indicative SuDs features

\*please refer to the Arboricultural Impact Assessment for detailed information

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NOTE:  
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Purpose of Issue  
**FOR DCO EXAMINATION**

Client  
**SUNNICA LTD**

Project Title

Drawing Title  
**ENVIRONMENTAL MASTERPLAN  
DETAILED PLANS  
SHEET 12  
WEST SITE A**

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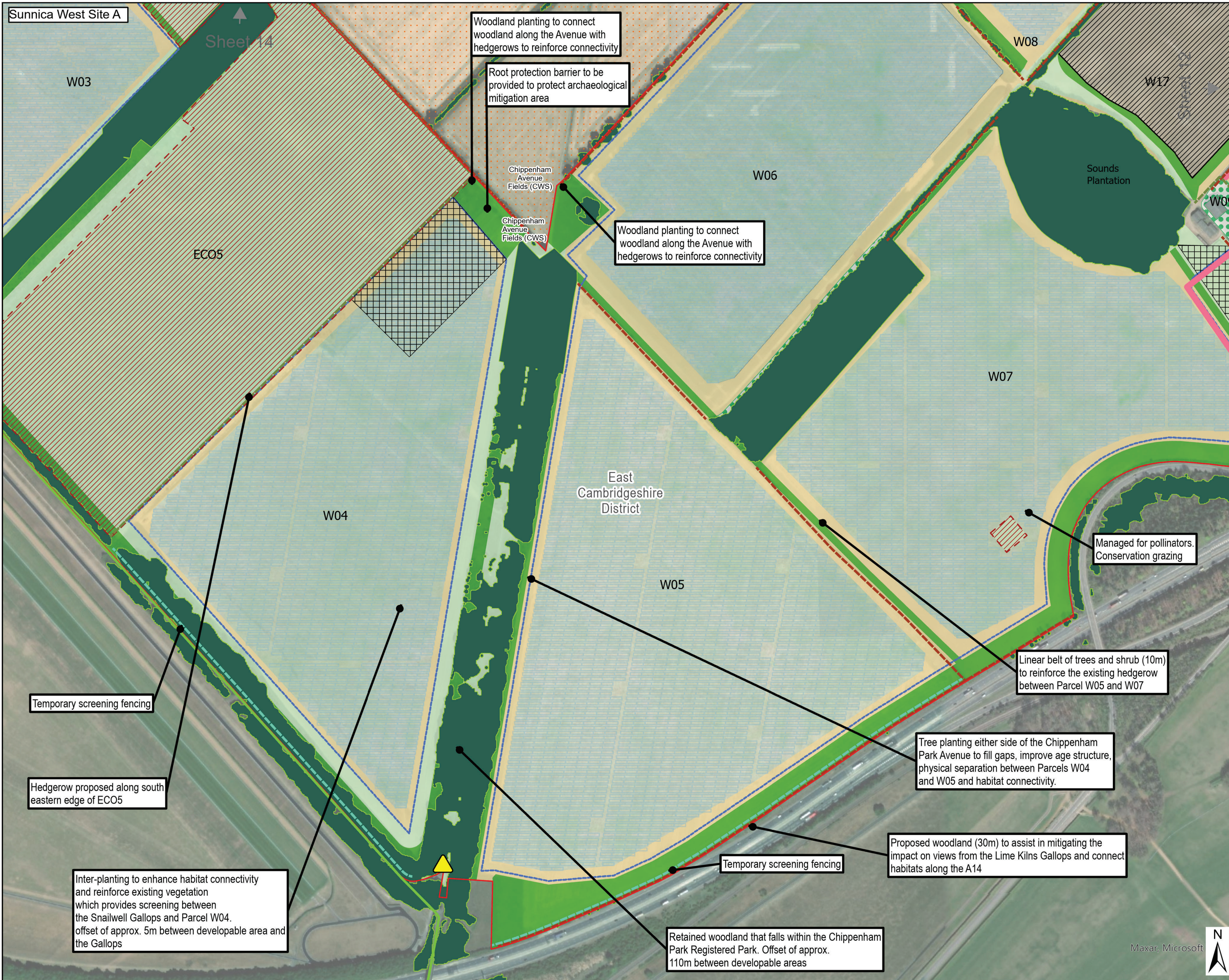
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**LEGEND**

**Existing features**

- Retained hedgerow
- Public Right of Way (PRoW)
- Trees to be retained\*
- Grassland
- County Wildlife Site
- Archaeological Constraints
- Archaeological exclusion area
- Interpretation signage

**Proposed Scheme features**

- The Order Limits
- Security fence (up to 2.5m in height)
- BESS and substation
- Solar panels
- Environmental fence
- Arable field margins pollen and nectar

**Proposed habitats**

- Grassland - modified grassland
- Grassland - other lowland acid grassland
- Grassland - other neutral grassland
- Woodland - see notes for type
- Native hedgerow; Species rich
- Winter bird cover crop

\*please refer to the Arboricultural Impact Assessment for detailed information

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Client  
**SUNNICA LTD**



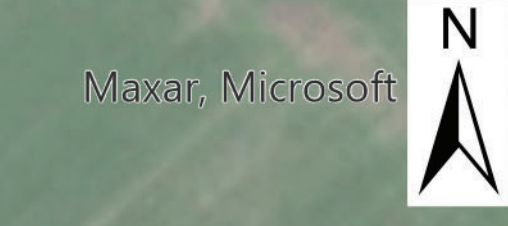
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 DETAILED PLANS  
 SHEET 13  
 WEST SITE A**

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**LEGEND**

District Boundary

**Existing features**

- Retained hedgerow
- Public Right of Way (PRoW)
- Trees to be retained\*
- Tree Preservation Order
- Grassland
- County Wildlife Site
- Interpretation signage

**Proposed Scheme features**

- The Order Limits
- Security fence (up to 2.5m in height)
- Solar panels

**Proposed habitats**

- Grassland - modified grassland
- Grassland - other lowland acid grassland
- Grassland - other neutral grassland
- Woodland - see notes for type
- Native hedgerow; Species rich

\*please refer to the Arboricultural Impact Assessment for detailed information

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NOTE:  
Document Reference: EN010106/APP16.3  
AFPP Regulation: 5(2)(a)

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Purpose of Issue  
**FOR DCO EXAMINATION**

Client  
**SUNNICA LTD**

Project Title

Drawing Title  
**ENVIRONMENTAL MASTERPLAN  
DETAILED PLANS  
SHEET 14  
WEST SITE A**

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Woodland planting (30m) to connect existing plantation woodland, diversify species composition and provide visual screening

Woodland planting (15m) to connect existing plantation woodland, diversify species composition and provide visual screening

Woodland planting (55m) to connect existing plantation woodland, diversify species composition and provide visual screening

Linear belt of trees and shrubs (10m) proposed to connect with Foxburrow Plantation and habitat and visual screening along the eastern edge of W03

Proposed woodland planting to extend the existing belt to a minimum width of approximately 65m to reinforce visual separation between Parcel W03 and ECO5.

Proposed woodland planting west of ECO5 to fill the gap in vegetation to enhance screening and connect habitats to the north and south

