

## **ENVIRONMENTAL STATEMENT (VOLUME III)**

### **Block Valve Stations Planning Arrangement**

#### **HyNet Carbon Dioxide Pipeline DCO**

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 –  
Regulations 5(2)(o)

Document Reference Number D.2.9

Applicant: Liverpool Bay CCS Limited

Inspectorate Reference: EN070007

English Version

REVISION: A

DATE: September 2022

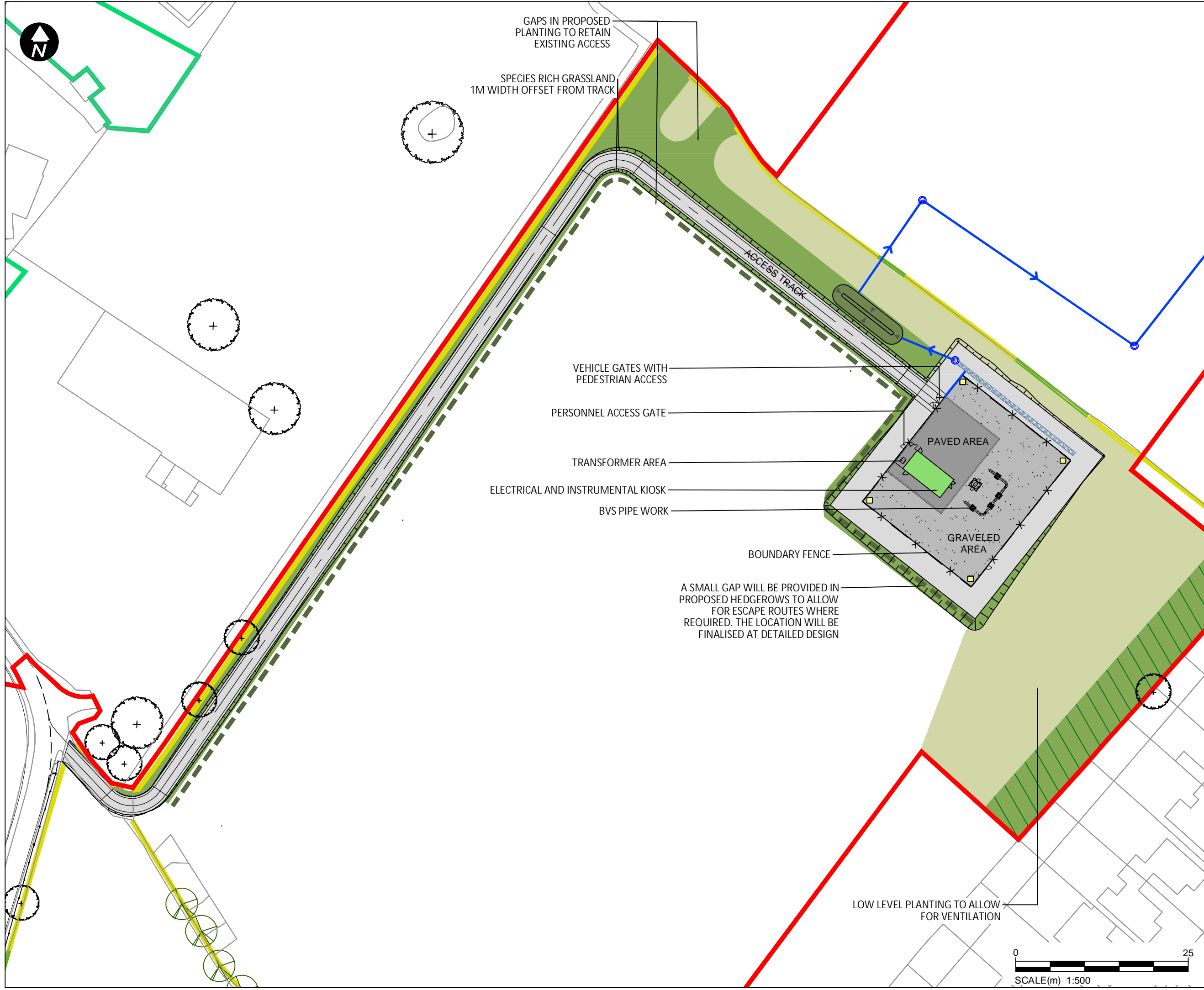
DOCUMENT OWNER: WSP UK Limited

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## QUALITY CONTROL

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<b>Issue/Revision</b>	<b>First Issue</b>	<b>Revision 1</b>	<b>Revision 2</b>	<b>Revision 3</b>
Document Reference	D.2.9			
Revision	A			
Author Name and Sign	DR			
Approver Name and Sign	NC			
Document Owner	WSP			



GAPS IN PROPOSED PLANTING TO RETAIN EXISTING ACCESS

SPECIES RICH GRASSLAND 1M WIDTH OFFSET FROM TRACK

VEHICLE GATES WITH PEDESTRIAN ACCESS

PERSONNEL ACCESS GATE

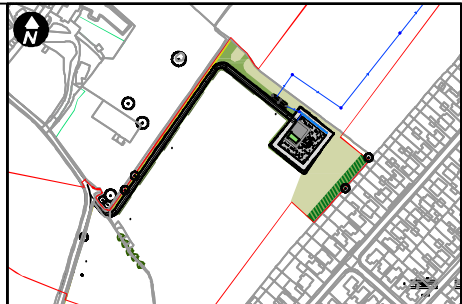
TRANSFORMER AREA

ELECTRICAL AND INSTRUMENTAL KIOSK

BVS PIPE WORK

A SMALL GAP WILL BE PROVIDED IN PROPOSED HEDGEROWS TO ALLOW FOR ESCAPE ROUTES WHERE REQUIRED. THE LOCATION WILL BE FINALISED AT DETAILED DESIGN

LOW LEVEL PLANTING TO ALLOW FOR VENTILATION



**Key:**

- Newbuild Infrastructure Boundary
- Topo survey (existing vegetation / fence lines)
- Hardstanding
- Gravel
- Crushed Stone
- Indicative Embankments / Cuttings
- Indicative Security Lighting Column with CCTV
- Existing To Be Removed
- Existing Hedgerow to be removed
- Existing To Be Retained
- Existing Woodland / Substantial areas of vegetation
- Existing Hedgerow
- Existing Tree
- Proposed Vegetation
- Hedgerow to replace existing lost
- Hedgerow
- Native Tree Screen Planting
- Native Shrub Planting
- Hedgerow Trees
- Species Rich Grassland
- Indicative Surface Water Drainage Design (Refer to EN70007-D.6.5.13.1-LAY-Sheet 5 for details)
- Indicative grassed dry detention basin
- Indicative surface water pipe (underground)
- Indicative gravel covered filter drain

**NOTE:**

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
- Refer to EN70007-D.2.14-LAY-Sheet 0-10 for details of Landscape Design
- The designs are subject to a 5m limit of deviation

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**HyNet North West**

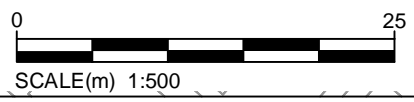
**PROJECT TITLE**  
**HyNet Carbon Dioxide Pipeline DCO**

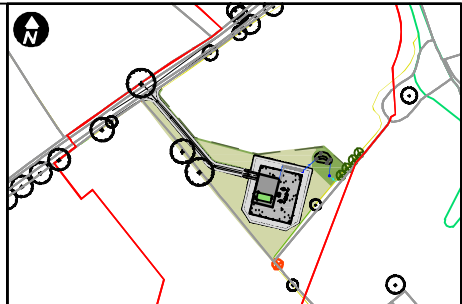
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 Application Document Reference D.2.9  
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 Sheet 1 of 6

**DRAWING STATUS**  
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**DRAWING NUMBER:**  
 EN070007-D.2.9-LAY-Sheet 1





**Key:**

- Proposed Boundary
- Topo survey (existing vegetation / fence lines)
- Hardstanding
- Gravel
- Crushed Stone
- Indicative Embankments / Cuttings
- Indicative Security Lighting Column with CCTV
- Existing To Be Removed
- Tree to be removed
- Hedgerow to be removed
- Existing To Be Retained
- Existing Woodland / Substantial areas of vegetation
- Existing Hedgerow
- Existing Tree
- Proposed Vegetation
- Hedgerow to replace existing lost
- Hedgerow
- Native Shrub Planting
- Hedgerow Trees
- Species Rich Grassland
- Indicative Surface Water Drainage Design (Refer to EN70007-D.6.5.13.1-LAY-Sheet 4 for details)
- Indicative grassed dry detention basin
- Indicative open channel (above ground)
- Indicative surface water pipe (underground)
- Indicative gravel covered filter drain

**NOTE:**

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
- Refer to EN070007-D.2.14-LAY-Sheet 0-10 for details of Landscape Design
- The designs are subject to a 5M limit of deviation.

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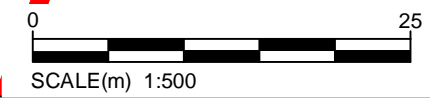
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HyNet Carbon Dioxide Pipeline DCO

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Application Document Reference D.2.9  
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Sheet 2 of 6

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EN070007-D.2.9-LAY-Sheet 2





LOW LEVEL PLANTING TO ALLOW FOR VENTILATION

BOUNDARY FENCE

BVS PIPE WORK

ELECTRICAL AND INSTRUMENTAL KIOSK

PERSONNEL ACCESS GATE

TRANSFORMER AREA

VEHICLE GATES WITH PEDESTRIAN ACCESS

A SMALL GAP WILL BE PROVIDED IN PROPOSED HEDGEROWS TO ALLOW FOR ESCAPE ROUTES WHERE REQUIRED. THE LOCATION WILL BE FINALISED AT DETAILED DESIGN.

SPECIES RICH GRASSLAND 1M WIDTH OFFSET FROM TRACK

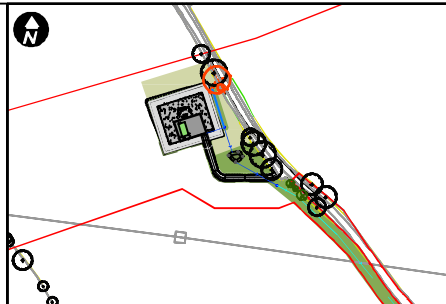
ACCESS TO FIELD TO BE RETAINED

OPEN CHANNEL TO BE SEEDED WITH SPECIES RICH GRASSLAND

GRAVELED AREA

PAVED AREA

ACCESS TRACK



Key:

- Newbuild Infrastructure Boundary
- Topo survey (existing vegetation / fence lines)
- Hardstanding
- Gravel
- Crushed Stone
- Indicative Embankments / Cuttings
- Indicative Security Lighting Column with CCTV
- Existing To Be Removed
- Tree to be removed
- Existing To Be Retained
- Existing Hedgerow
- Existing Tree
- Proposed Vegetation
- Hedgerow to replace existing lost
- Hedgerow
- Native Shrub Planting
- Hedgerow Trees
- Species Rich Grassland
- Indicative Surface Water Drainage Design (Refer to EN70007-D.6.5.13.1-LAY-Sheet 3 for details)
- Indicative grassed dry detention basin
- Indicative open channel (above ground)
- Indicative surface water pipe (underground)
- Indicative gravel covered filter drain

NOTE:  
- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011  
- Refer to EN070007-D.2.14-LAY-Sheet 0-10 for details of Landscape Design  
- The designs are subject to a 5m limit of deviation.

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**HyNet North West**

PROJECT TITLE  
**HyNet Carbon Dioxide Pipeline DCO**

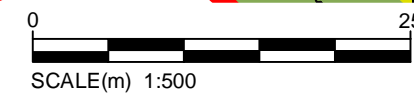
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Sheet 3 of 6

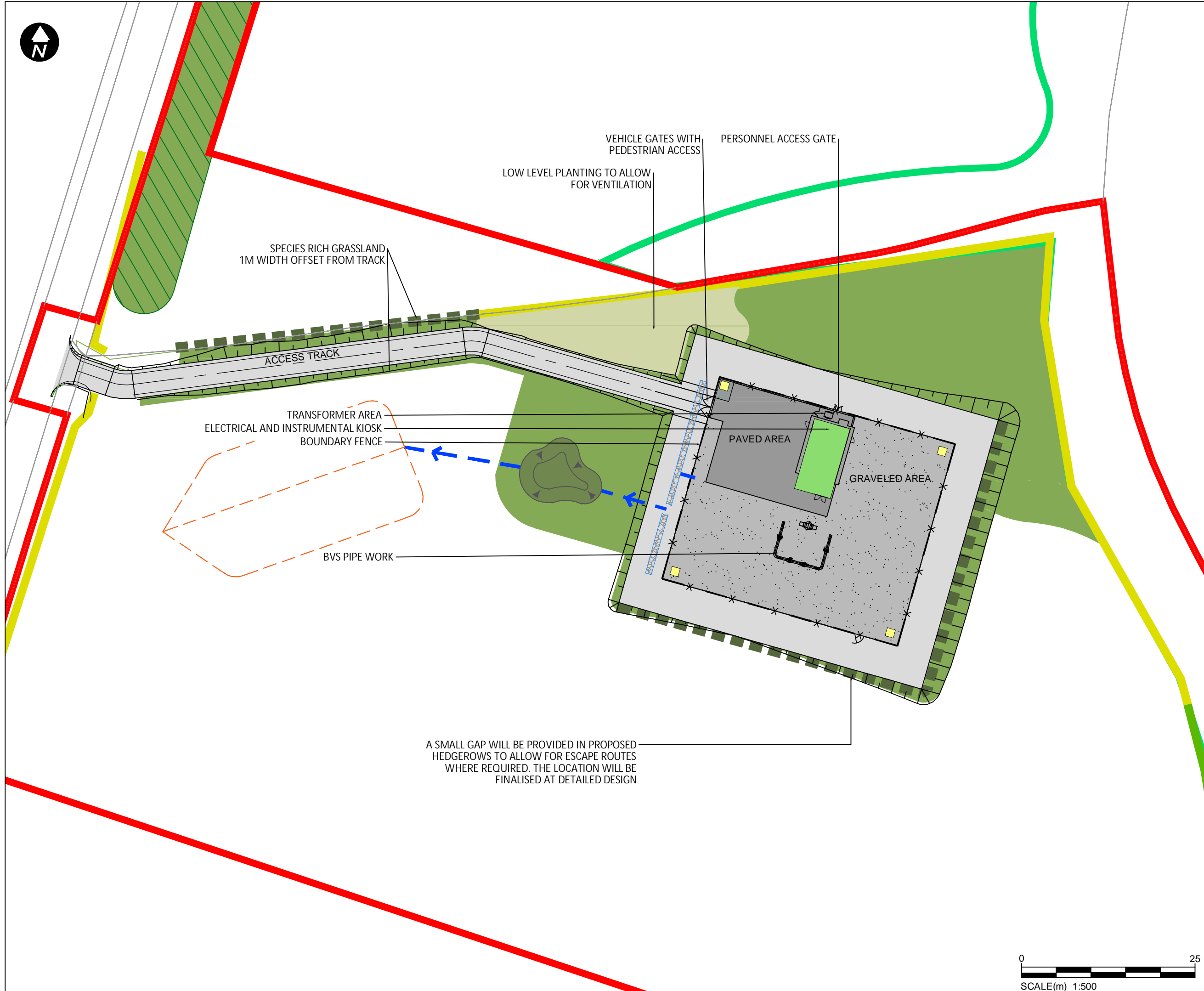
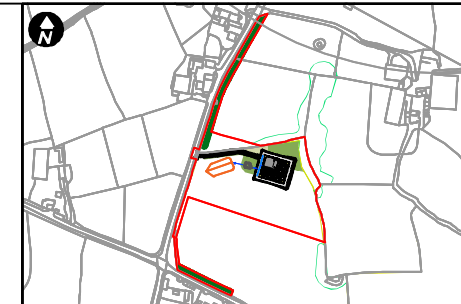
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LA	SL	DR	AV

SCALE @ A3 SIZE	DATE	REVISION
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EN070007-D.2.9-LAY-Sheet 3





**Key:**

- Newbuild Infrastructure Boundary
- Topo survey (existing vegetation / fence lines)
- Hardstanding
- Gravel
- Crushed Stone
- Indicative Embankments / Cuttings
- Indicative Security Lighting Column with CCTV
- Existing To Be Retained**
- Existing Woodland / Substantial areas of vegetation
- Existing Hedgerow
- Proposed Vegetation**
- Hedgerow to replace existing lost
- Hedgerow
- Native Shrub Planting
- Species Rich Grassland
- Indicative Surface Water Drainage Design (Refer to EN70007-D.6.5.13.1-LAY-Sheet 9 for details)**
- Indicative grassed dry detention basin
- Indicative surface water pipe (underground)
- Indicative land drain (underground)
- Indicative gravel covered filter drain

**NOTE:**

- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
- Refer to EN070007-D.2.14-LAY-Sheet 0-10 for details of Landscape Design
- The designs are subject to a 5M limit of deviation.

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**PROJECT TITLE**  
**HyNet Carbon Dioxide Pipeline DCO**

**DRAWING TITLE**  
 Application Document Reference D.2.9  
 Pentre Halkyn BVS Indicative Layout  
 Sheet 4 of 6

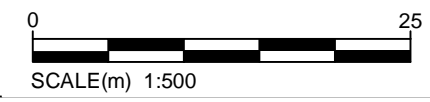
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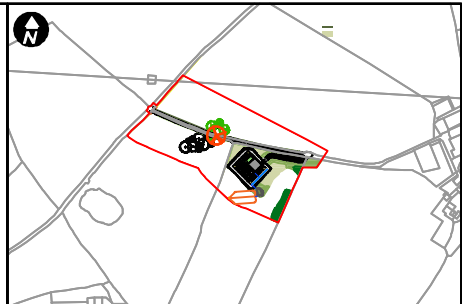
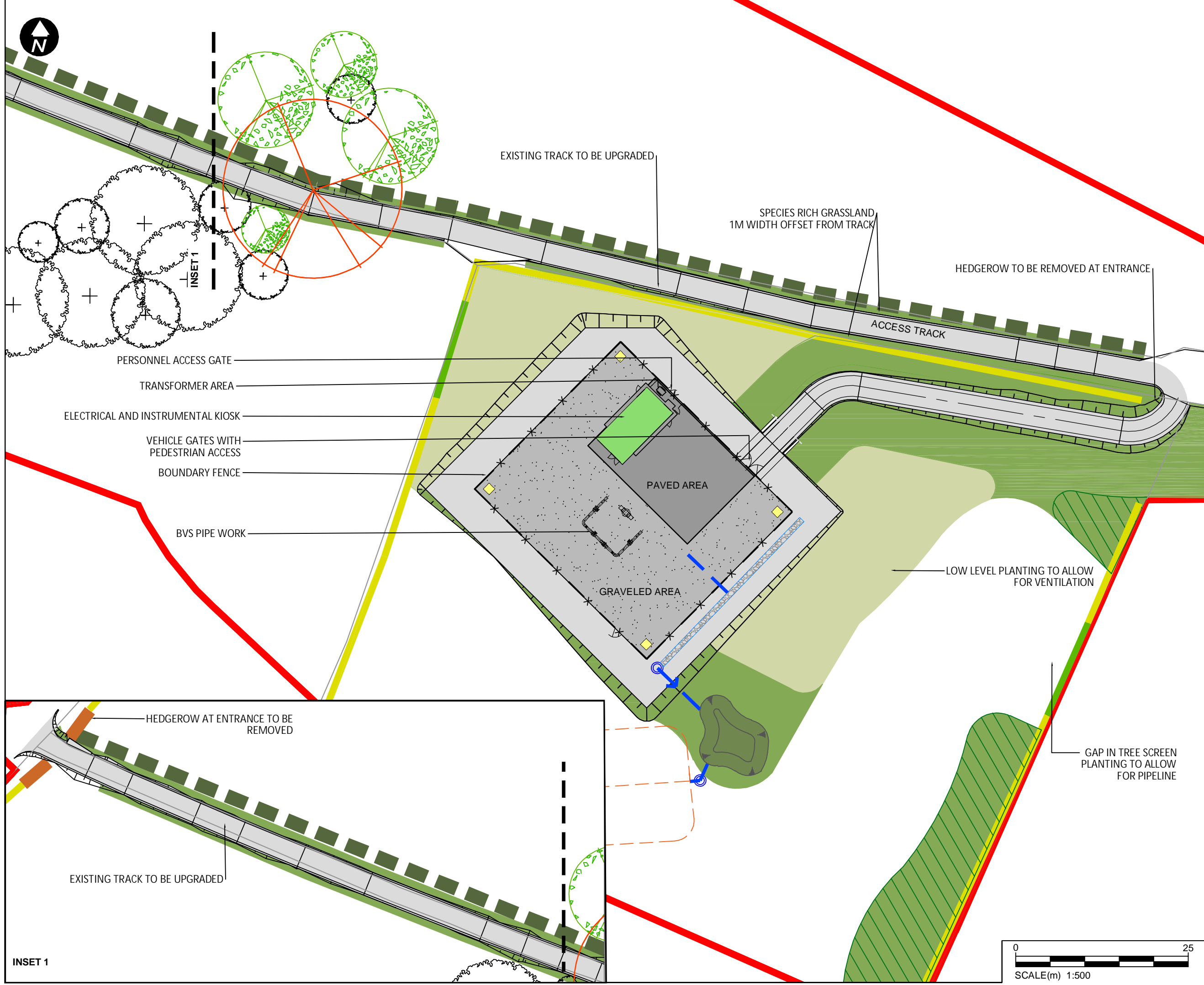
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 EN070007-D.2.9-LAY-Sheet 4

A SMALL GAP WILL BE PROVIDED IN PROPOSED HEDGEROWS TO ALLOW FOR ESCAPE ROUTES WHERE REQUIRED. THE LOCATION WILL BE FINALISED AT DETAILED DESIGN





- Key:**
- Newbuild Infrastructure Boundary
  - Topo survey (existing vegetation / fence lines)
  - Hardstanding
  - Gravel
  - Crushed Stone
  - Indicative Embankments / Cuttings
  - Indicative Security Lighting Column with CCTV
  - Existing To Be Removed
  - Tree to be removed
  - Hedgerow to be removed
  - Existing To Be Retained
  - Existing Hedgerow
  - Existing Tree
  - Proposed Vegetation
  - Hedgerow to replace existing lost
  - Hedgerow
  - Native Shrub Planting
  - Hedgerow Trees
  - Species Rich Grassland
  - Indicative Surface Water Drainage Design  
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 10 for details)
  - Indicative grassed dry detention basin
  - Indicative land drain (underground)
  - Indicative surface water pipe (underground)
  - Indicative gravel covered filter drain
- NOTE:**
- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
  - Refer to EN70007-D.2.14-LAY-Sheet 0-10 for details of Landscape Design
  - The designs are subject to a 5M limit of deviation.

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**HyNet North West**

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**HyNet Carbon Dioxide Pipeline DCO**

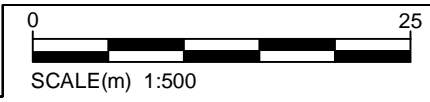
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Babell BVS Indicative Layout  
Sheet 5 of 6

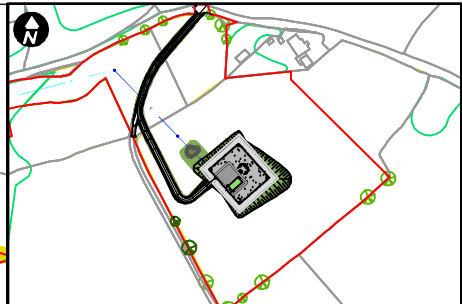
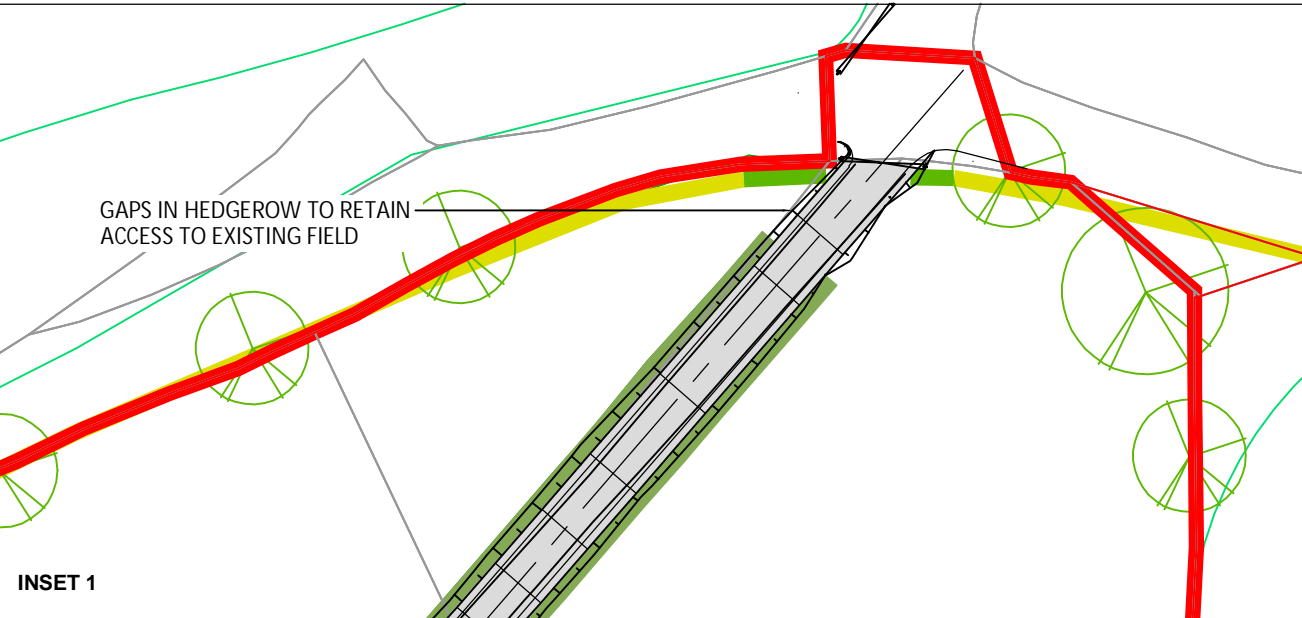
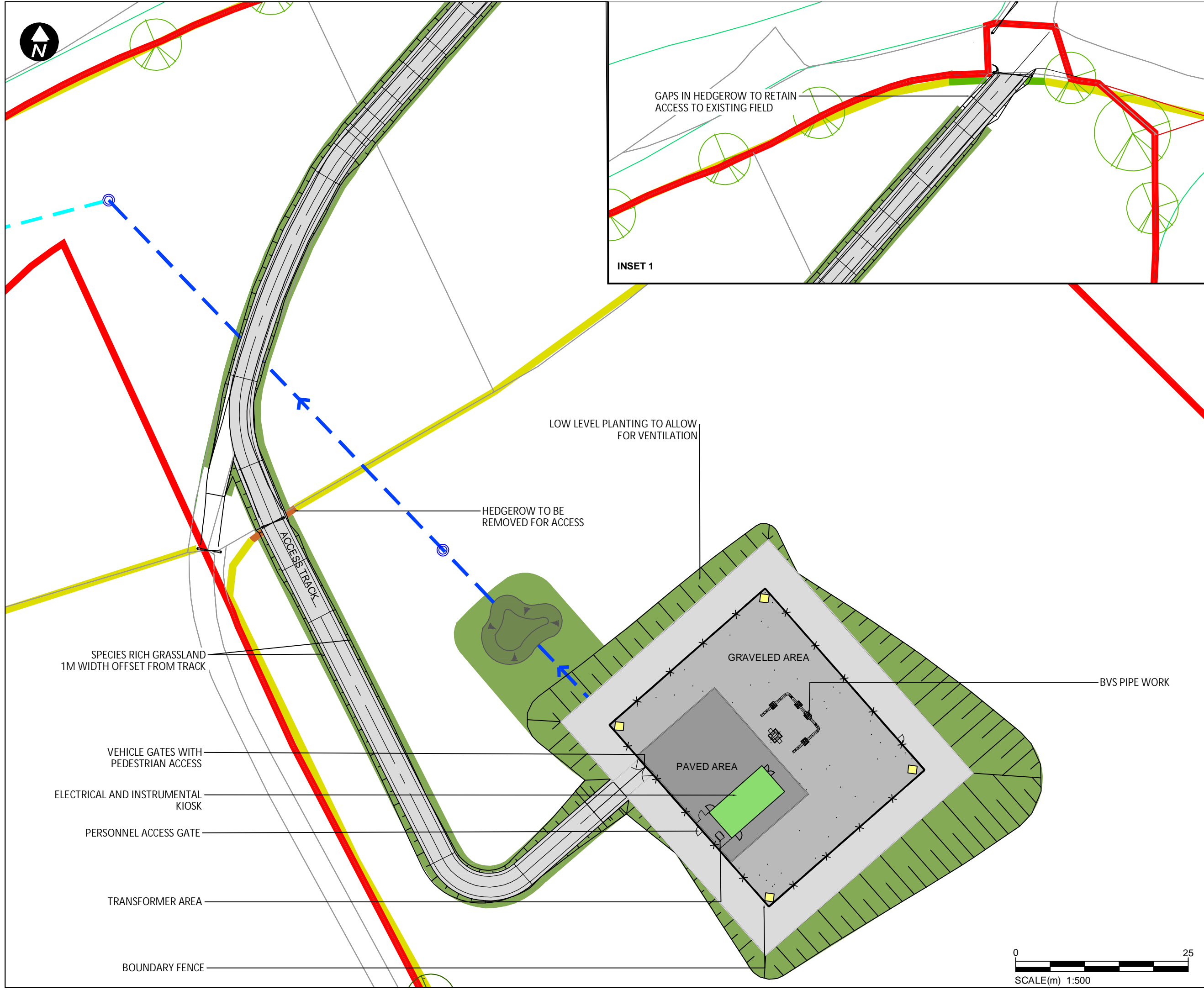
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EN070007-D.2.9-LAY-Sheet 5





- Key:**
- Newbuild Infrastructure Boundary
  - Topo survey (existing vegetation / fence lines)
  - Hardstanding
  - Gravel
  - Crushed Stone
  - Indicative Embankments / Cuttings
  - Indicative Security Lighting Column with CCTV
  - Existing To Be Removed**
  - Hedgerow to be removed
  - Existing To Be Retained**
  - Existing Hedgerow
  - Proposed Vegetation**
  - Hedgerow Trees
  - Species Rich Grassland
  - Indicative Surface Water Drainage Design**  
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 8 for details)
  - Indicative grassed dry detention basin
  - Indicative surface water pipe (underground)
  - Indicative gravel covered filter drain
- NOTE:**
- E&I Kiosk, lighting columns and fences to be painted green to RAL 6011
  - Refer to EN070007-D.2.14-LAY-Sheet 0-10 for details of Landscape Design
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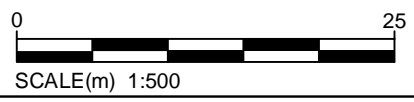
**PROJECT TITLE**  
**HyNet Carbon Dioxide Pipeline DCO**

**DRAWING TITLE**  
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 Sheet 6 of 6

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 EN070007-D.2.9-LAY-Sheet 6



SPECIES RICH GRASSLAND  
1M WIDTH OFFSET FROM TRACK

VEHICLE GATES WITH  
PEDESTRIAN ACCESS

ELECTRICAL AND INSTRUMENTAL  
KIOSK

PERSONNEL ACCESS GATE

TRANSFORMER AREA

BOUNDARY FENCE

LOW LEVEL PLANTING TO ALLOW  
FOR VENTILATION

HEDGEROW TO BE  
REMOVED FOR ACCESS

GRAVELED AREA

PAVED AREA

BVS PIPE WORK

ACCESS TRACK

**INSET 1**

GAPS IN HEDGEROW TO RETAIN  
ACCESS TO EXISTING FIELD