

## **BVS AND AGI LANDSCAPE LAYOUT**

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

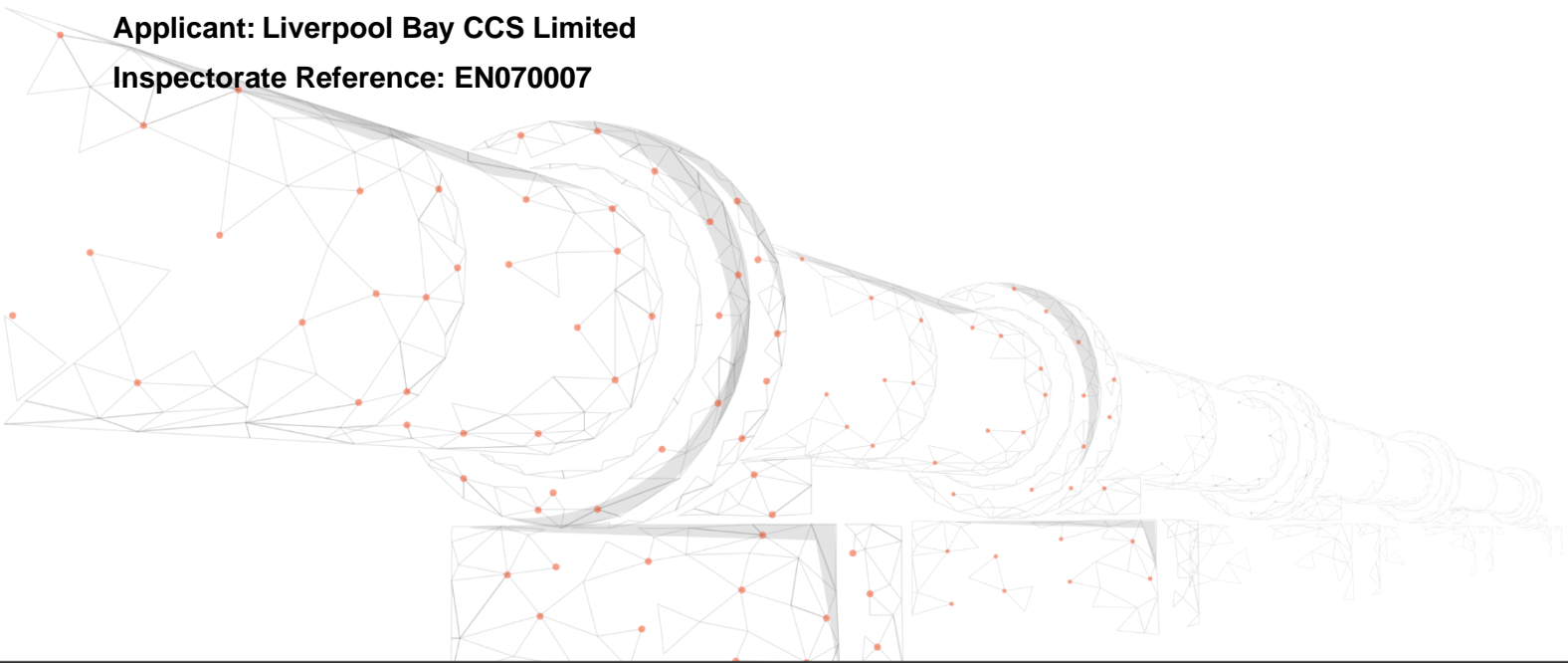
Planning Act 2008

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

Document Reference Number D.2.14

Applicant: Liverpool Bay CCS Limited

Inspectorate Reference: EN070007



REVISION: C

DATE: September 2023

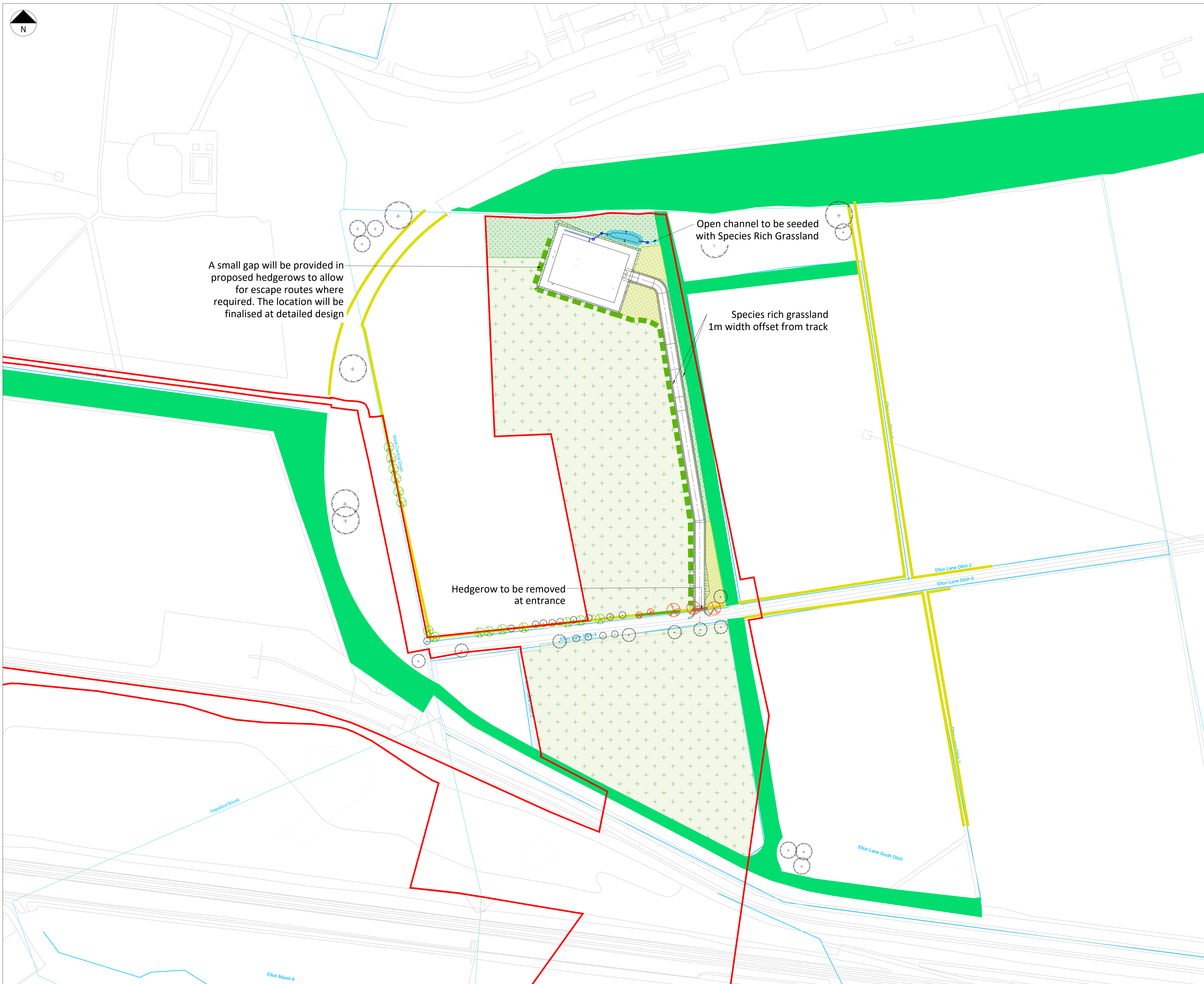
DOCUMENT OWNER: WSP UK Limited

PUBLIC

















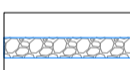
## QUALITY CONTROL

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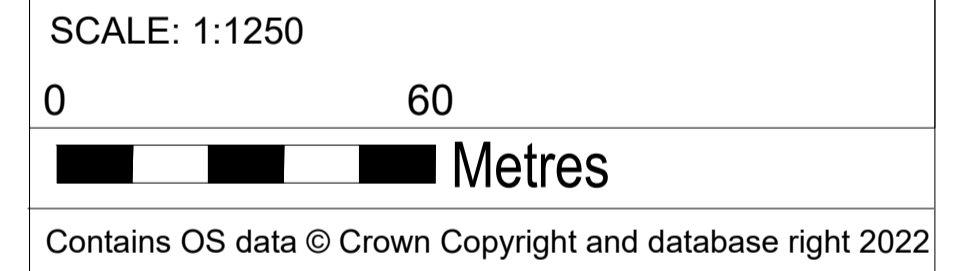
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<b>Revision</b>	<b>Date</b>	<b>Comments</b>	<b>Author</b>	<b>Check</b>	<b>Approver</b>
<b>A</b>	September 2022	Submission	PT	DS	AV
<b>B</b>	March 2023	Change Request 1	PT	DS	AV
<b>C</b>	September 2023	Deadline 7	PT	DS	AV



**KEY**

-  Newbuild Infrastructure Boundary
-  Topo survey (existing vegetation/ fence lines)
- Existing Vegetation To Be Permanently Removed (as part of the DCO Proposed Development EN070007)**
-  Tree to be removed
-  Hedgerow to be removed
- Existing Vegetation To Be Retained (as part of the DCO Proposed Development EN070007)**
-  Existing Woodland
-  Existing Hedgerow
-  Existing Tree
- Indicative Proposed Planting (as part of the DCO Proposed Development EN070007)**
-  Native Double Staggered Hedgerow - for replacement of existing
-  Native Triple Staggered Hedgerow
-  Native Shrub Planting
-  Hedgerow Trees
-  Species Rich Grassland
-  Made Good / Return to prior use
- Indicative Surface Water Drainage Design (Refer to EN70007-D.6.5.13.1-LAY-Sheet 1 for details)**
-  Indicative ephemeral detention pond
-  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 EN70007\_D.2.14-LAY\_Sheet 10 for indicative species  
 - The designs are subject to a 5m limit of deviation.



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PROJECT TITLE  
**HyNet Carbon Dioxide Pipeline DCO**

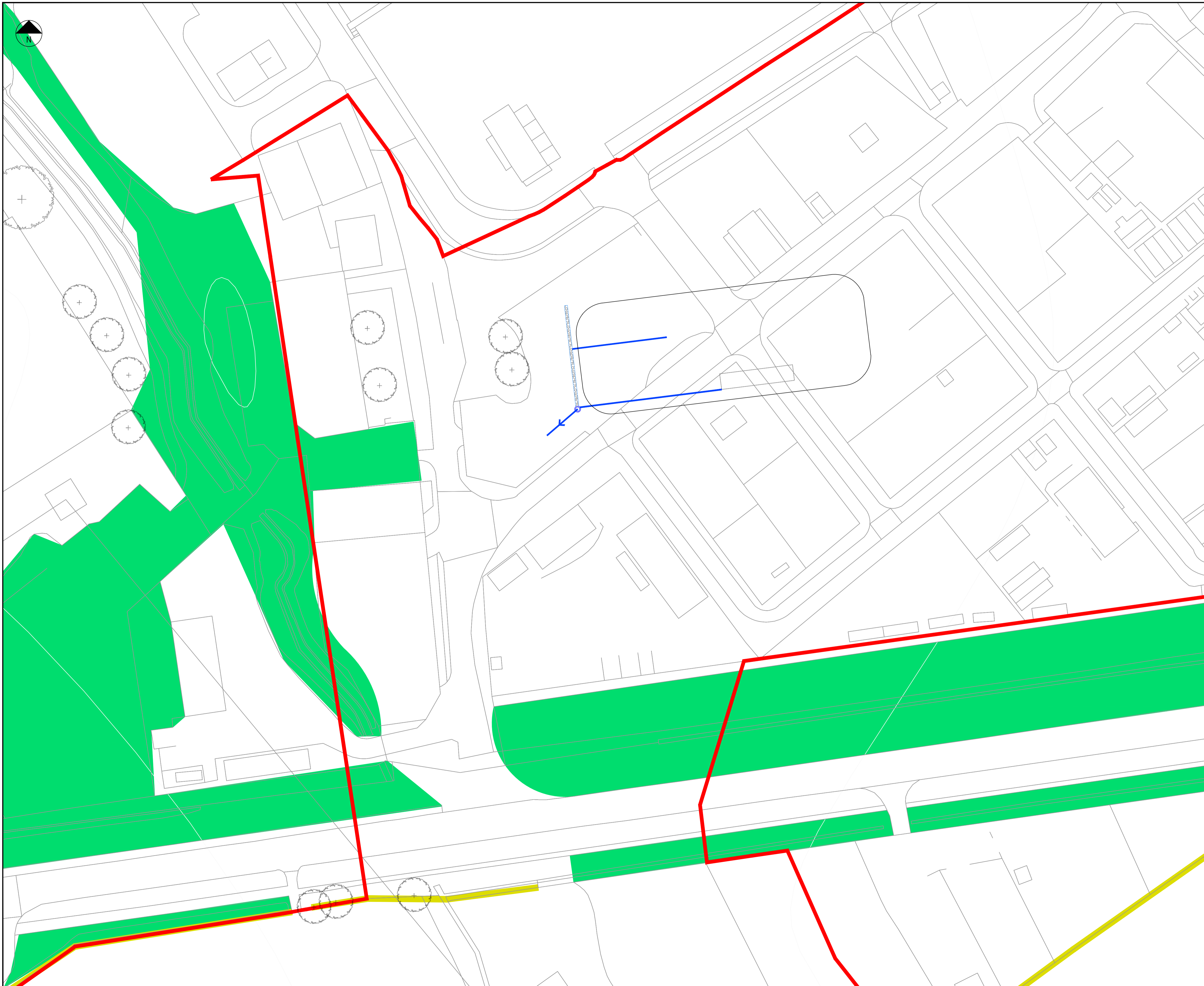
DRAWING TITLE  
 Application Document Reference D.2.14  
 Ince AGI Landscape Layout  
 Sheet 1 of 11






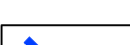

DRAWING STATUS  
**FOR DCO SUBMISSION**

DRAWN	CHECKED	APPROVED	AUTHORISED
SL	SL	DS	AV
SCALE @ A1 SIZE	DATE	REVISION	
1:1250	14/08/2023	C	

DRAWING NUMBER  
**EN070007-D.2.14-LAY-Sheet 1**





- KEY**
-  Newbuild Infrastructure Boundary
  -  Topo survey (existing vegetation/ fence lines)
  - Existing To Be Retained**
  -  Existing Woodland
  -  Existing Hedgerow
  -  Existing Tree
  - Indicative Surface Water Drainage Design**  
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 2 for details)
  -  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 10 for indicative species
  - The designs are subject to 5m limit of deviation

SCALE: 1:500

0 25 Metres

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**HyNet North West**

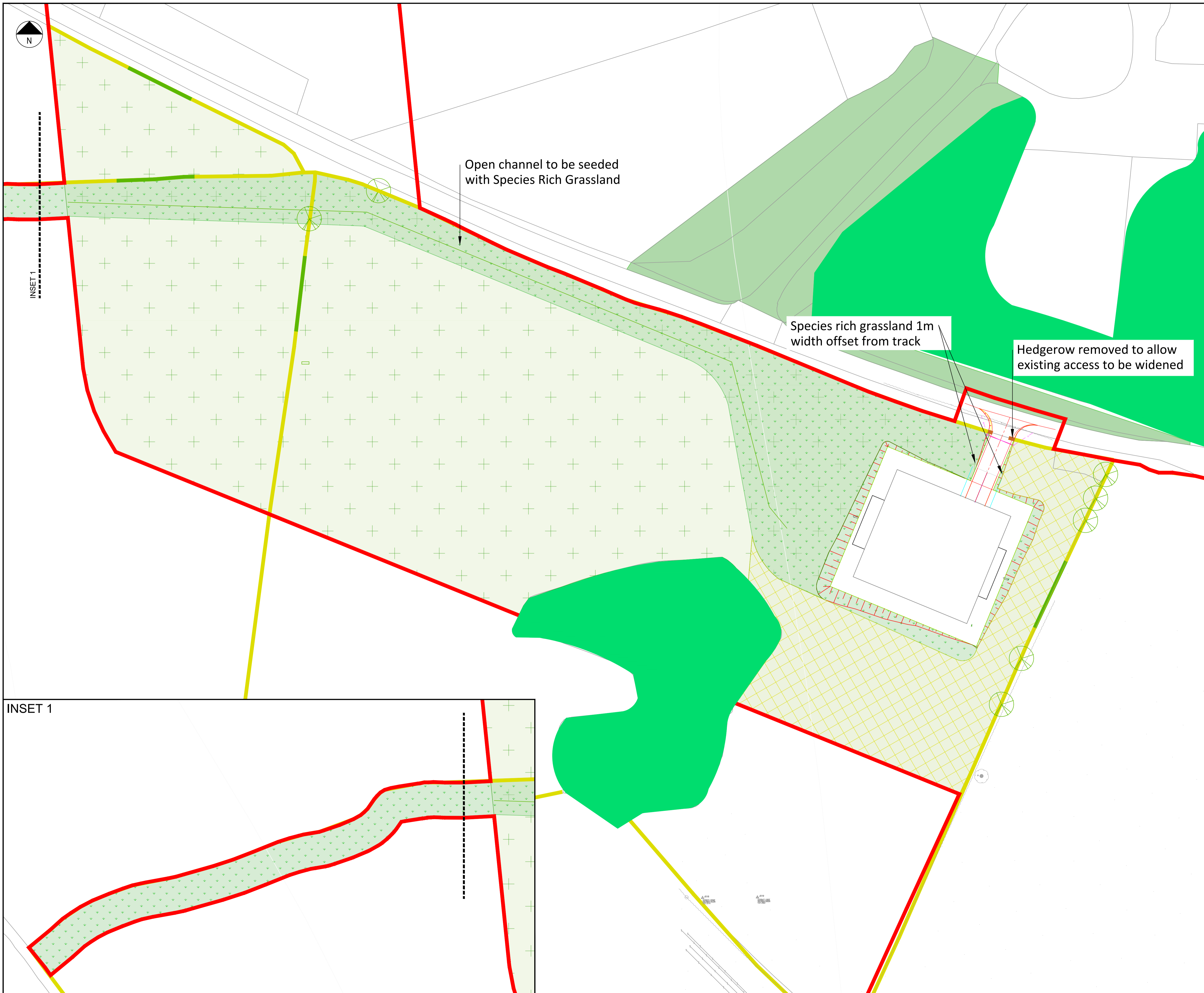
PROJECT TITLE  
**HyNet Carbon Dioxide Pipeline DCO**

DRAWING TITLE  
Application Document Reference D.2.14  
Stanlow AGI Landscape Layout  
Sheet 2 of 11

DRAWING STATUS  
**FOR DCO SUBMISSION**

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SCALE @ A1 SIZE 1:500		DATE 26/09/2022	REVISION C
DRAWING NUMBER 70070865-T.2.14-LAY-Sheet 2			





INSET 1

Open channel to be seeded with Species Rich Grassland

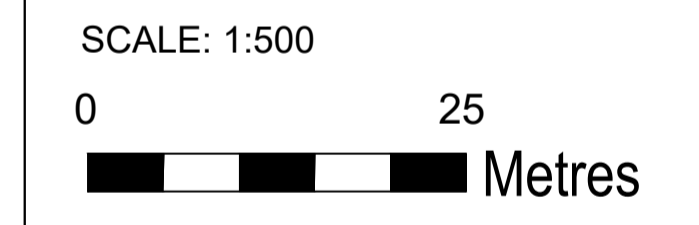
Species rich grassland 1m width offset from track

Hedgerow removed to allow existing access to be widened

- KEY**
- Newbuild Infrastructure Boundary
  - Topo survey (existing vegetation/ fence lines)
  - Existing To Be Retained**
  - Ancient Woodland
  - Existing Woodland
  - Existing Hedgerow
  - Existing Tree
  - Indicative Proposed Planting**
  - Native Double Staggered Hedgerow - for replacement of existing
  - Native Shrub Planting
  - Hedgerow Trees
  - Species Rich Grassland
  - Made Good/ Return to prior use
  - Indicative Surface Water Drainage Design**  
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 6 for details)
  - Indicative ephemeral detention pond
  - 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 EN70007\_D.2.14-LAY\_Sheet 10 for indicative species
- The designs are subject to a 5M limit of deviation.



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**HyNet North West**

PROJECT TITLE  
**HyNet Carbon Dioxide Pipeline DCO**

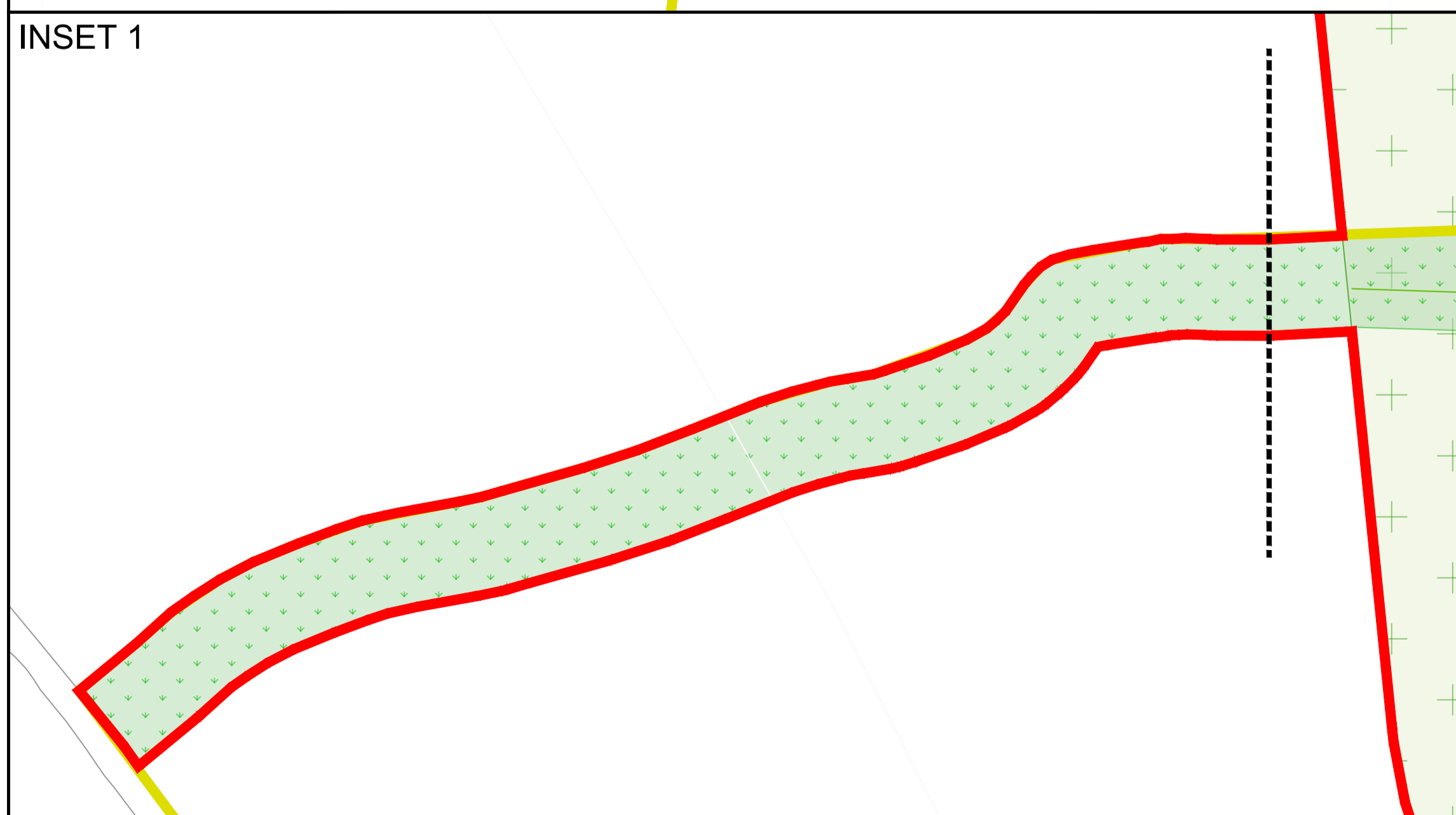
DRAWING TITLE  
Application Document Reference D.2.14  
Northop Hall AGI Landscape Layout  
Sheet 3 of 11

DRAWING STATUS  
**FOR DCO SUBMISSION**

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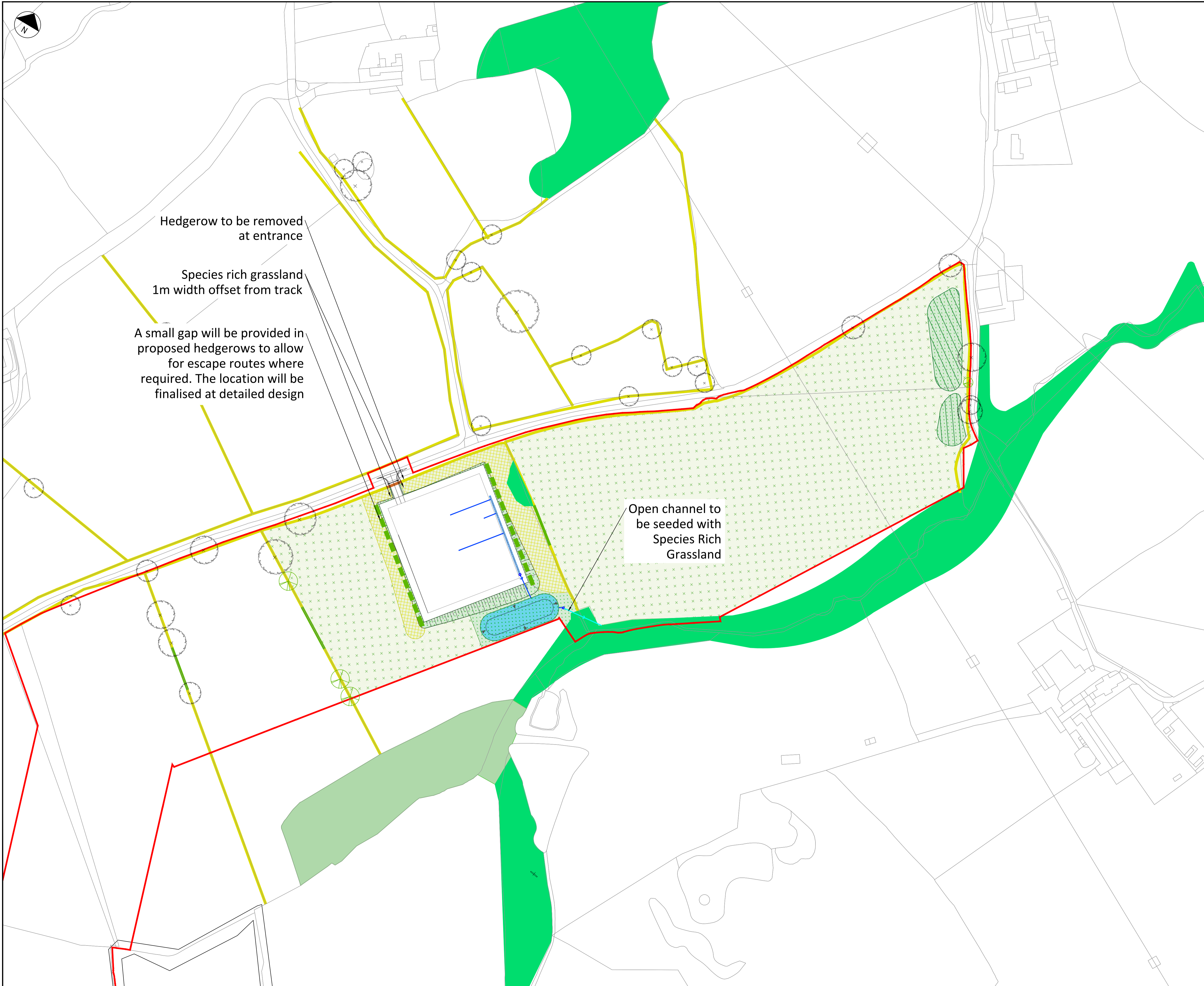
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DRAWING NUMBER  
70070865-T.2.14-LAY-Sheet 3



INSET 1





**KEY**

- Newbuild Infrastructure Boundary
- Topo survey (existing vegetation/ fence lines)
- Existing To Be Permanently Removed**
- Hedgerow to be removed
- Existing To Be Retained**
- Ancient Woodland
- Existing Woodland
- Existing Hedgerow
- + Existing Tree
- Proposed Vegetation (Indicative)**
- Native Double Staggered Hedgerow - for replacement of existing
- Native Triple Staggered Hedgerow
- Tree Screen Planting
- Native Shrub Planting
- + Hedgerow Trees
- Species Rich Grassland
- Made Good / Return to prior use
- Indicative Surface Water Drainage Design (Refer to EN70007-D.6.5.13.1-LAY-Sheet 7 for details)**
- Indicative ephemeral detention pond
- 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
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SCALE: 1:2500

0 60 Metres

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**HyNet North West**

PROJECT TITLE  
**HyNet Carbon Dioxide Pipeline DCO**

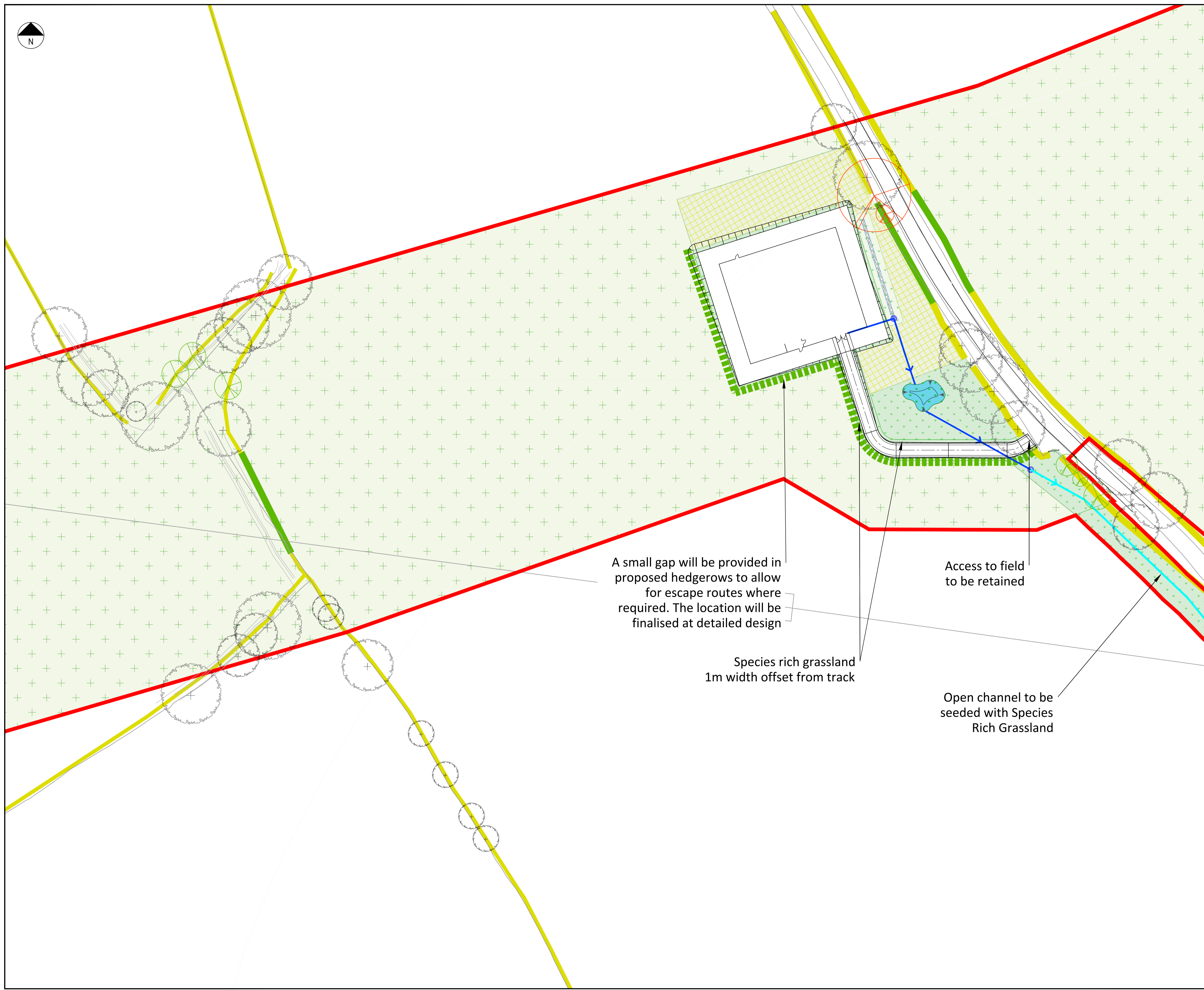
DRAWING TITLE  
Application Document Reference D.2.14  
Flint AGI Landscape Layout  
Sheet 4 of 11

DRAWING STATUS  
**FOR DCO SUBMISSION**

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SCALE @ A1 SIZE 1:1250	DATE 26/09/2022	REVISION C	

DRAWING NUMBER  
EN070007-D.2.14-LAY-Sheet 4








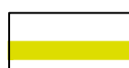











A small gap will be provided in proposed hedgerows to allow for escape routes where required. The location will be finalised at detailed design

Species rich grassland 1m width offset from track

Access to field to be retained

Open channel to be seeded with Species Rich Grassland

**KEY**

-  Newbuild Infrastructure Boundary
-  Topo survey (existing vegetation/ fence lines)
- Existing To Be Permanently Removed**
-  Tree to be removed
- Existing To Be Retained**
-  Existing Hedgerow
-  Existing Tree
- Indicative Proposed Planting**
-  Native Double Staggered Hedgerow - for replacement of existing
-  Native Triple Staggered Hedgerow
-  Native Shrub Planting
-  Hedgerow Trees
-  Species Rich Grassland
-  Made Good / Return to prior use
- Indicative Surface Water Drainage Design (Refer to EN70007-D.6.5.13.1-LAY-Sheet 3 for details)**
-  Indicative ephemeral detention pond
-  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 EN70007-D.2.14-LAY-Sheet 10 for indicative species  
 - The designs are subject to 5m limit of deviation

SCALE: 1:500



0 25 Metres

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# HyNet North West

PROJECT TITLE  
**HyNet Carbon Dioxide Pipeline DCO**

DRAWING TITLE  
 Application Document Reference D.2.14  
 Rock Bank BVS Landscape Layout  
 Sheet 5 of 11

DRAWING STATUS  
**FOR DCO SUBMISSION**

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SCALE @ A1 SIZE	DATE	REVISION	
1:500	26/09/2022	C	

DRAWING NUMBER  
**70070865-T.2.14-LAY-Sheet 5**





**KEY**

- Newbuild Infrastructure Boundary
- Topo survey (existing vegetation/ fence lines)
- Existing To Be Permanently Removed**
  - Tree to be removed
  - Hedgerow to be removed
- Existing To Be Retained**
  - Existing woodland
  - Existing Hedgerow
  - Existing Tree
- Indicative Proposed Planting**
  - Native Double Staggered Hedgerow - for replacement of existing
  - Native Triple Staggered Hedgerow
  - Native Shrub Planting
  - Hedgerow Tree
  - Species Rich Grassland
  - Made Good / Return to prior use
- Indicative Surface Water Drainage Design (Refer to EN70007-D.6.5.13.1-LAY-Sheet 4 for details)**
  - Indicative ephemeral detention pond
  - Indicative open channel (above ground)
  - Indicative surface water pipe (underground)
  - Indicative gravel covered filter drain

**NOTE:**

- E&I Kitsk, lighting columns and fences to be painted green to RAL 6011
- Refer to EN70007-D.2.14-LAY-Sheet 10 for indicative species
- The designs are subject to 5m limit of deviation

SCALE: 1:500

0 25 Metres

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**HyNet North West**

PROJECT TITLE  
**HyNet Carbon Dioxide Pipeline DCO**

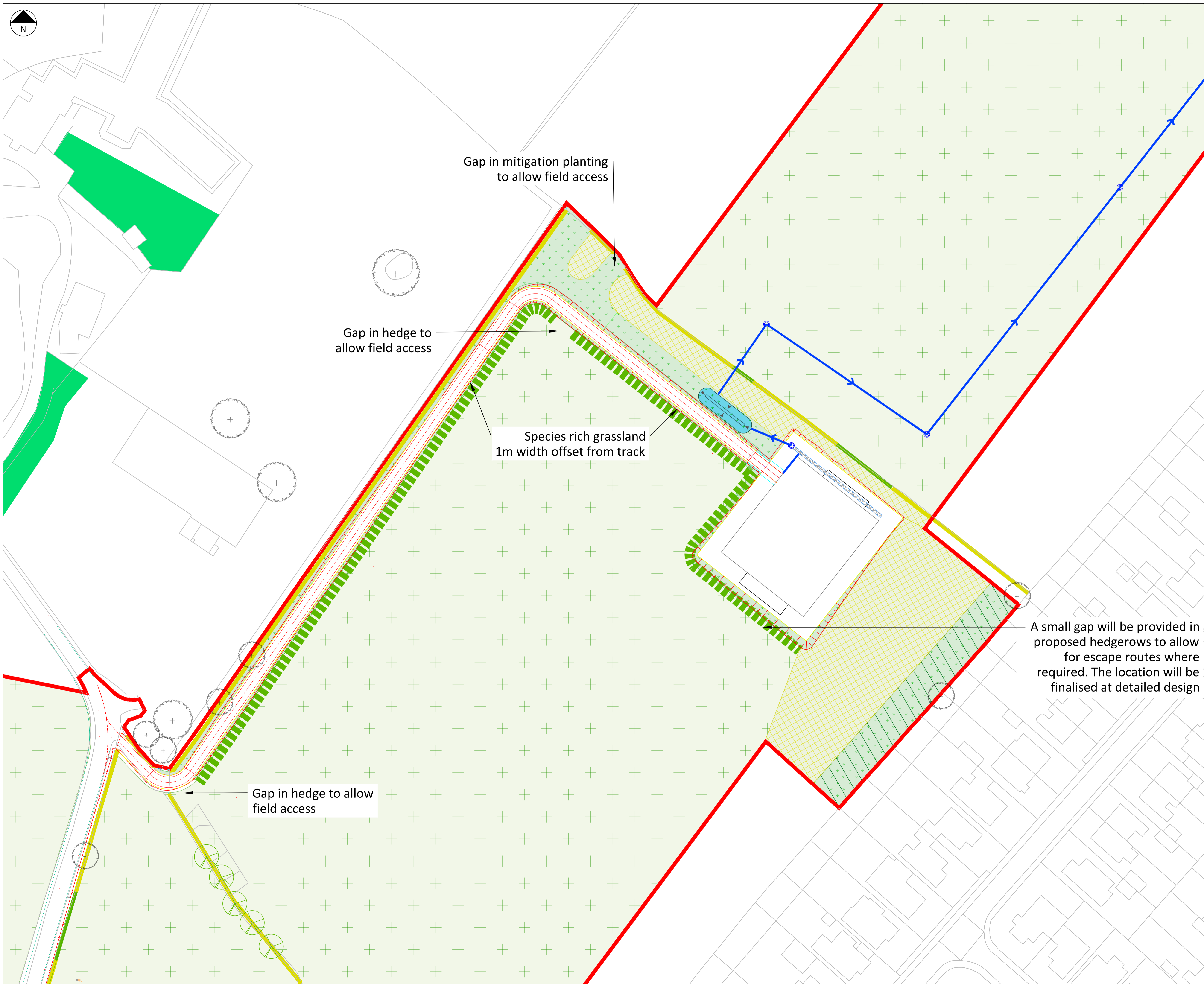
DRAWING TITLE  
Application Document Reference D.2.14  
Mollington BVS Landscape Layout  
Sheet 6 of 11

DRAWING STATUS  
**FOR DCO SUBMISSION**

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SCALE @ A1 SIZE 1:500	DATE 26/09/2022	REVISION C	

DRAWING NUMBER  
EN070007-D.2.14-LAY-Sheet 6





Gap in mitigation planting to allow field access


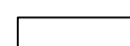


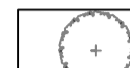
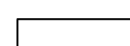




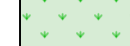




Gap in hedge to allow field access

Species rich grassland 1m width offset from track

Gap in hedge to allow field 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


**KEY**

-  Newbuild Infrastructure Boundary
-  Topo survey (existing vegetation/ fence lines)
- Existing To Be Retained**
-  Existing woodland
-  Existing Hedgerow
-  Existing Tree
- Indicative Proposed Planting**
-  Native Double Staggered Hedgerow - for replacement of existing
-  Native Triple Staggered Hedgerow
-  Native Tree Screen Planting
-  Native Shrub Planting
-  Hedgerow Tree
-  Species Rich Grassland
-  Made Good / Return to prior use
- Indicative Surface Water Drainage Design**  
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 5 for details)
-  Indicative ephemeral detention pond
-  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 10 for indicative species
- The designs are subject to 5m limit of deviation

SCALE: 1:500



0 25 Metres

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**HyNet North West**

PROJECT TITLE  
**HyNet Carbon Dioxide Pipeline DCO**

DRAWING TITLE  
Application Document Reference D.2.14  
Aston Hill BVS Landscape Layout  
Sheet 7 of 11

DRAWING STATUS  
**FOR DCO SUBMISSION**

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DRAWING NUMBER  
**EN070007-D.2.14-LAY-Sheet 7**


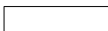
















Open channel to be seeded with Species Rich Grassland

Species rich grassland 1m width offset from track

**KEY**

-  Newbuild infrastructure boundary
-  Topo survey (existing vegetation/ fence lines)
- Existing To Be Permanently Removed**
-  Hedgerow to be removed
- Existing To Be Retained**
-  Existing Woodland
-  Existing Hedgerow
- Proposed Vegetation (Indicative)**
-  Native Double Staggered Hedgerow - for replacement of existing
-  Native Shrub Planting
-  Hedgerow Trees
-  Species Rich Grassland
-  Made Good / return to prior use
- Indicative Surface Water Drainage Design (Refer to EN70007-D.6.5.13.1-LAY-Sheet 8 for details)**
-  Indicative ephemeral detention pond
-  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 EN70007\_D.2.14-LAY\_Sheet 10 for indicative species  
 - The designs are subject to 5m limit of deviation

SCALE: 1:1000



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**HyNet North West**

**PROJECT TITLE**  
 HyNet Carbon Dioxide Pipeline DCO

**DRAWING TITLE**  
 Application Document Reference D.2.14  
 Cornist Lane BVS Landscape Layout  
 Sheet 8 of 11

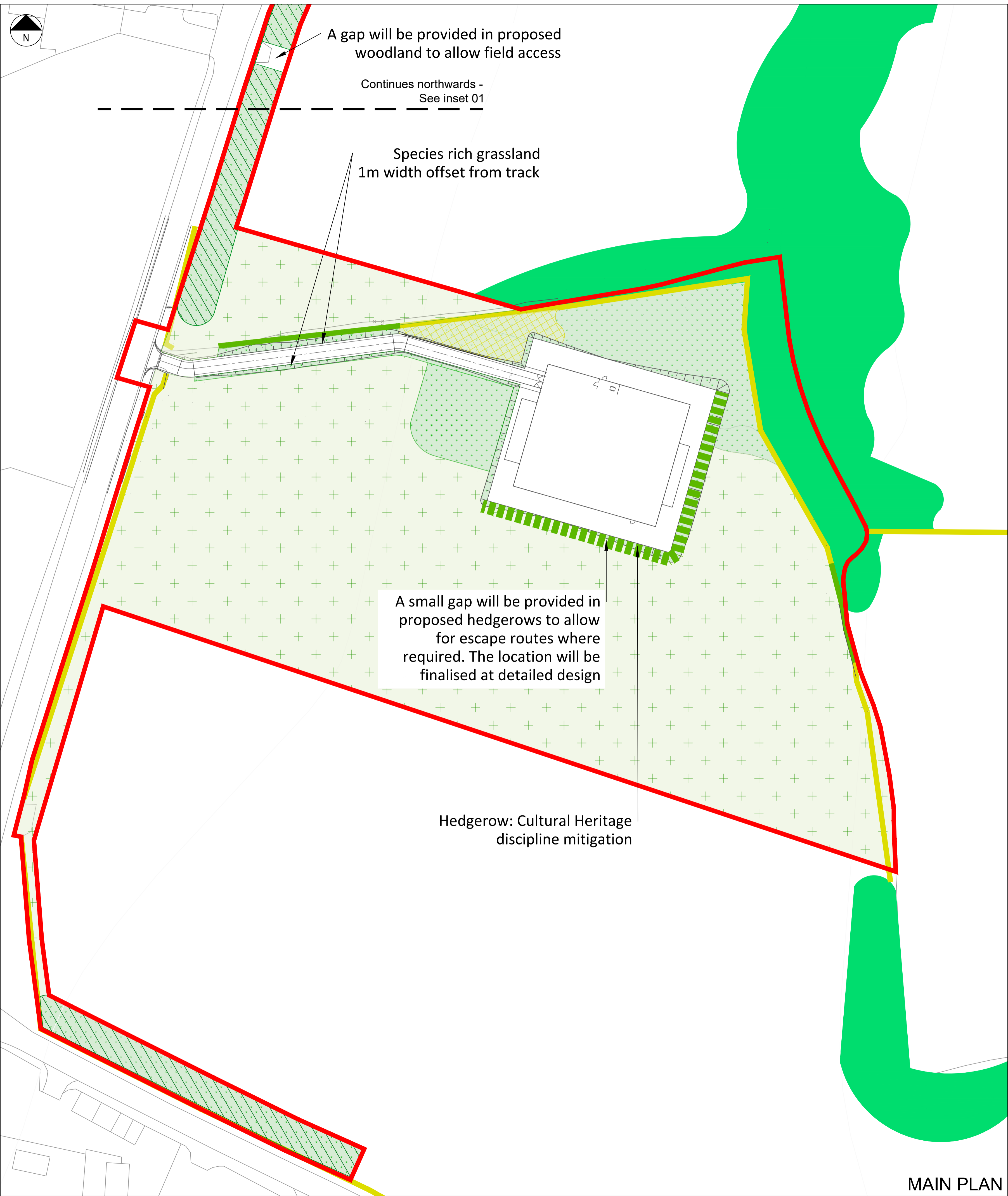
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SL	DS	DS	AV

SCALE @ A1 SIZE	DATE	REVISION
1:1000	09/03/2023	C

**DRAWING NUMBER**  
 EN070007-D.2.14-LAY-Sheet 8





**KEY**

- Newbuild Infrastructure boundary
- Topo survey (existing vegetation/ fence lines)

**Existing To Be Retained**

- Existing Woodland
- Existing Hedgerow

**Indicative Proposed Planting**

- Native Double Staggered Hedgerow - for replacement of existing
- Native Triple Staggered Hedgerow
- Native Tree Screen Planting
- Native Shrub Planting
- Species Rich Grassland
- Made Good / Return to prior use

**Indicative Surface Water Drainage Design (Refer to EN70007-D.6.5.13.1-LAY-Sheet 9 for details)**

- Indicative ephemeral detention pond
- Indicative surface water pipe (underground)
- Indicative land 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 10 for indicative species
- The designs are subject to 5m limit of deviation

SCALE: 1:2500

**Metres**

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**HyNet North West**

PROJECT TITLE  
**HyNet Carbon Dioxide Pipeline DCO**

DRAWING TITLE  
Application Document Reference D.2.14  
Pentre Halkyn BVS Landscape Layout  
Sheet 9 of 11

DRAWING STATUS  
**FOR DCO SUBMISSION**

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SCALE @ A1 SIZE 1:1250	DATE 22/03/2023	REVISION C	

DRAWING NUMBER  
EN070007-D.2.14-LAY-Sheet 9





Field access to be maintained

Hedgerow to be removed





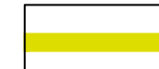
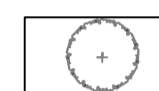



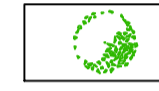


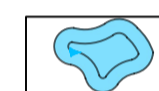



Field access maintained

Existing farmer's access will be designed at detailed design. A small section of landscape mitigation will be removed to allow for this.

Gap in screen planting to allow for pipeline

Gap in screen planting to allow for OHL

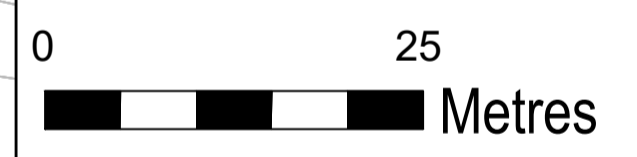
**KEY**

-  Newbuild Infrastructure Boundary
-  Topo survey (existing vegetation/ fence lines)
- Existing To Be Permanently Removed**
-  Tree to be removed
-  Hedgerow to be removed
- Existing To Be Retained**
-  Existing Hedgerow
-  Existing Tree
- Indicative Proposed Planting**
-  Native Triple Staggered Hedgerow
-  Native Tree Screen Planting
-  Native Shrub Planting
-  Individual Trees
-  Species Rich Grassland
-  Made Good / Return to prior use
- Indicative Surface Water Drainage Design**  
(Refer to EN70007-D.6.5.13.1-LAY-Sheet 10 for details)
-  Indicative ephemeral detention pond
-  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 EN70007\_D.2.14-LAY\_Sheet 10 for indicative species
- The designs are subject to 5m limit of deviation

SCALE: 1:500



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**HyNet North West**

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

**DRAWING TITLE**  
Application Document Reference D.2.14  
Babell BVS Landscape Layout  
Sheet 10 of 11

**DRAWING STATUS**  
FOR DCO SUBMISSION

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SCALE @ A1 SIZE	DATE	REVISION
1:500	22/03/2023	C

**DRAWING NUMBER**  
EN070007-D.2.14-LAY-Sheet 10



## HyNet Indicative Species Mixes - Landscape Layouts

### Native Tree Screen Planting (Woodland belt character)

Bare root whips approx. 125-150cm tall

- Acer campestre (Field Maple)
- Acer pseudoplatanus (Sycamore)
- Tilia Cordata (Lime)
- Sorbus aucuparia (Rowan)
- Sorbus aria (Whitebeam)
- Quercus robur (Common Oak)
- Betula pendula (Common Silver Birch)
- Corylus avellana (Common Hazel)
- Ilex aquifolium (Common Holly)
- Salix caprea (Goat Willow)
- Alnus glutinosa (Common Alder)

### Native Shrub Planting (low level planting)

Container grown approx. 10-15l at approx. 40-80cm height depending on individual species

- Cornus sanguinea (Common Dogwood) 15%
- Crataegus monogyna (Common Hawthorn) 15%
- Ilex aquifolium (Common Holly) 10%
- Prunus spinosa (Blackthorn) 20%
- Rosa canina (Dog Rose) 15%
- Salix cinerea (Grey Willow) 10%
- Viburnum opulus (Guelder Rose) 15%

### Hedgerow Trees (individual trees)

Selected Standards Bare root 8-10cm girth approx. 250-300cm height

- Acer campestre (Field maple)
- Acer pseudoplatanus (Sycamore)
- Tilia Cordata (Lime)
- Fagus sylvatica (Common Beech)
- Malus sylvestris (Common Crab Apple)
- Betula pendula (Common Silver Birch)
- Populus nigra (Black Poplar)

### Individual Trees (individual trees to replace those lost)

Selected Standards Root Balled 10-12cm girth approx. 300-350cm height

- Acer campestre (Field maple)
- Acer pseudoplatanus (Sycamore)
- Tilia Cordata (Lime)

### Native Tripe Staggered Hedgerow (proposed hedgerow where not replacing existing like for like)

Bareroot Transplants 2 year, 40-60cm height

- Corylus avellanan (Common Hazel)
- Crataegus monogyna (Common Hawthorn)
- Viburnum opulus (Guelder Rose)
- Ilex aquifolium (Common Holly)

### Native Double Staggered Hedgerow (where replacing existing like for like)

Bareroot Transplants 2 year, 40-60cm height

- Species determined via hedgerow surveys or as above where appropriate/provides BNG benefit.

### Species Rich Grassland

- Appropriate native mix

### Made Good / return to prior use

- As appropriate, to be determined at detailed design

**HyNet North West**

PROJECT TITLE  
**HyNet Carbon Dioxide  
Pipeline DCO**

DRAWING TITLE  
Application Document Reference D.2.14  
Indicative Species List  
Sheet 11 of 11

DRAWING STATUS  
**CHANGE REQUEST**

DRAWN	CHECKED	APPROVED	AUTHORISED
SL	DS	DS	AW
SCALE @ A1 SIZE	DATE	REVISION	
-	09/03/2023	C	

DRAWING NUMBER  
**EN070007-D.2.14-LAY-Sheet 11**