



MetroWest+

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

2.53, Environmental Masterplan

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

Planning Act 2008

Author: CH2M

Revision: Version 3

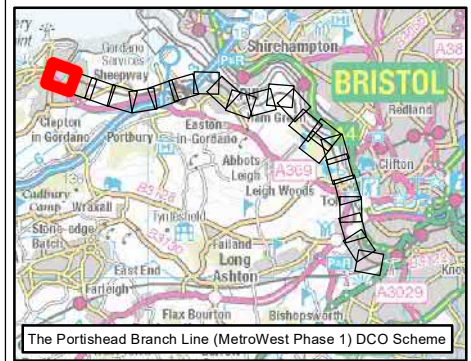
Date: March 2021



Document Index

Version	Date	Status	Plan No. and Title	Document Index	Document Revision	Changes
1	13 November 2019	Application	2.53 Environmental Masterplan	674946-001-024-A	ES-A	None
2	18 September 2020	Revised design	2.53 Environmental Masterplan	674946-001-024-A	ES-B	Sheets 3, 4, 5, 6, and 7. Removed permanent newt corridors under bridges. Sheet 5. Removed reference to making old structure sound.
3	12 March 2021	Revised design	2.53 Environmental Masterplan	674946-001-024-A	ES-C	Sheets 2 and 8. Toad patrol areas and breeding ponds added. Sheets 2, 3, 4, 5, 6, and 7. GCN fences and enhancement areas removed. Sheet 5. Extended length of acoustic barrier in front of old Portbury Station House. Sheet 7. Floodplain compensation removed. Sheet 7 and 8. Revised Order limit lands. Sheet 8. Important hedgerow added. Sheet 8 and 11. Compound locations coloured for reptile displacement. Sheet 17. Construction compound labelling.

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KEY

- Order Limits
- Local Authority Boundary
- Portishead Branch Line**
- The Nationally Significant Infrastructure Project (NSIP) Works
- Temporary construction compounds
- Environmental Mitigation & Constraints**
- Great Crested Newt (GCN) Pond
- Habitat Suitable for Otters
- Reptile Trapping
- Acoustic Barrier
- Reptile Tunnel
- Reptile Fence for reptile trapping
- Reptile Displacement Areas
- Registered Toad Patrol
- Tree Preservation Order (TPO)
- Public Rights of Way**
- Footpath
- Monument Point (Non-designated)
- Monument Linear (Non-designated)

Rev	By	Chkd	Apprvd	Date	Description
ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
ES-B	JG	CW	CF	17/09/2020	Second draft
ES-A	JG	CW	CF	21/07/2020	First draft

Client

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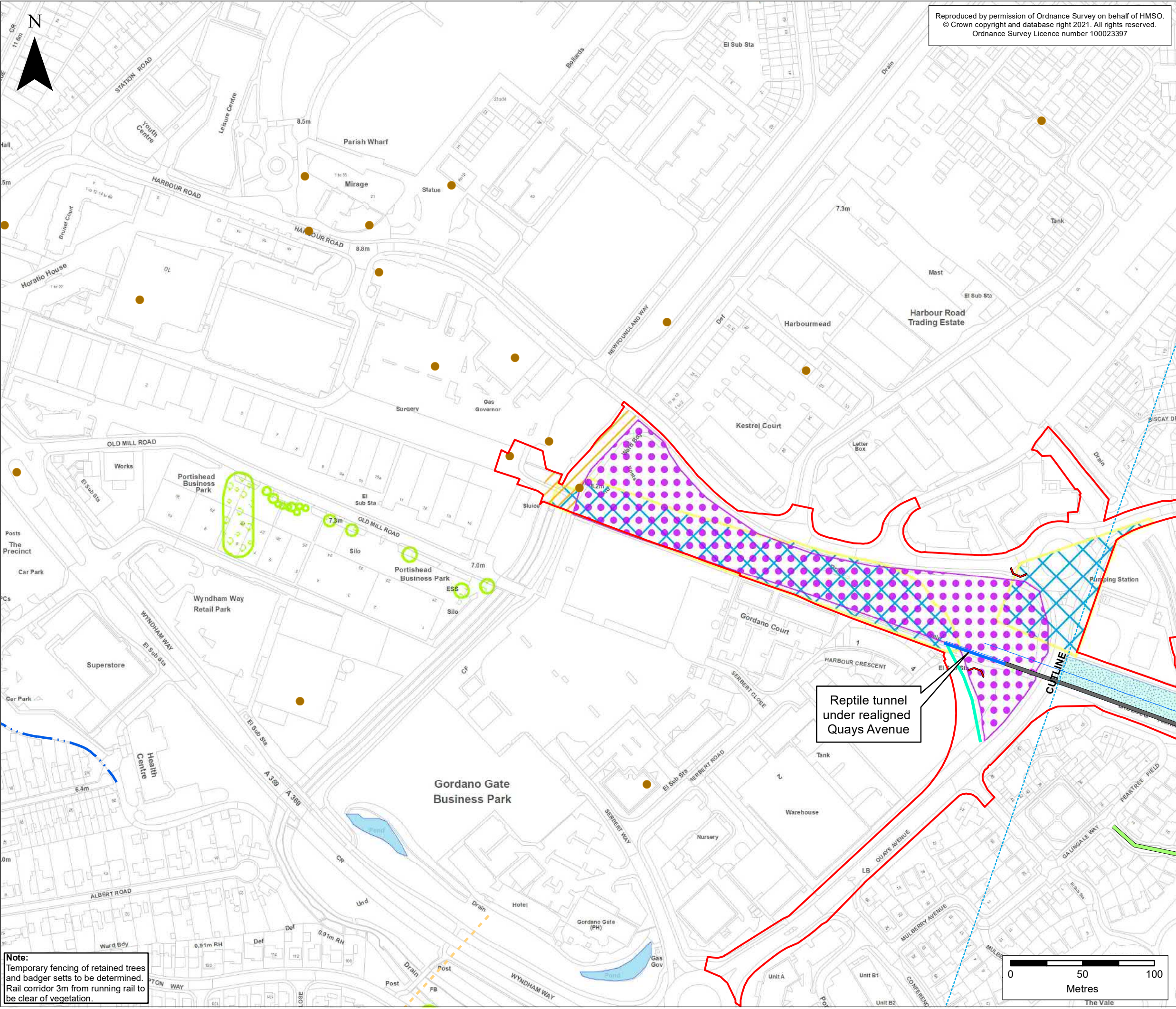
Project : Portishead Branch Line (MetroWest Phase 1)

Drawing : Environmental Master Plan (Sheet 1 of 23)
 APFP Regulation 5(2)(o)

Drawn By : Martin Costello **Date:** 11/03/2021
Checked By : Clare Williams **Date:** 11/03/2021
Approved By : Carolyn Francis **Date:** 11/03/2021

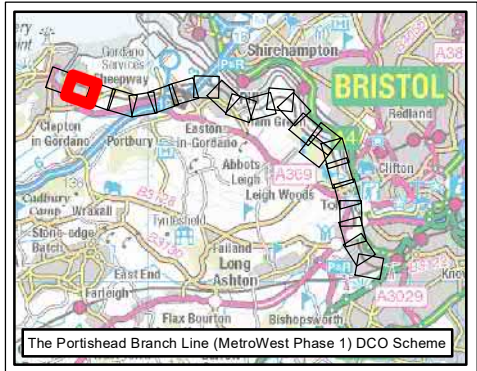
Drawing No. : 674946 -001-024-A **Revision** ES-C

Drawing Scale : 1:2,500 @ A3



Note:
 Temporary fencing of retained trees and badger sets to be determined.
 Rail corridor 3m from running rail to be clear of vegetation.

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 - Portishead Eco-Park Reptile Receptor Site
 - Reptile Trapping
 - Acoustic Barrier
 - Bird Box
 - Bat Hibernation Box
 - Bat Box
 - Toad Breeding Pond
 - Reptile/GCN Hibernacula
 - Reptile Tunnel
 - Reptile Fence for reptile trapping
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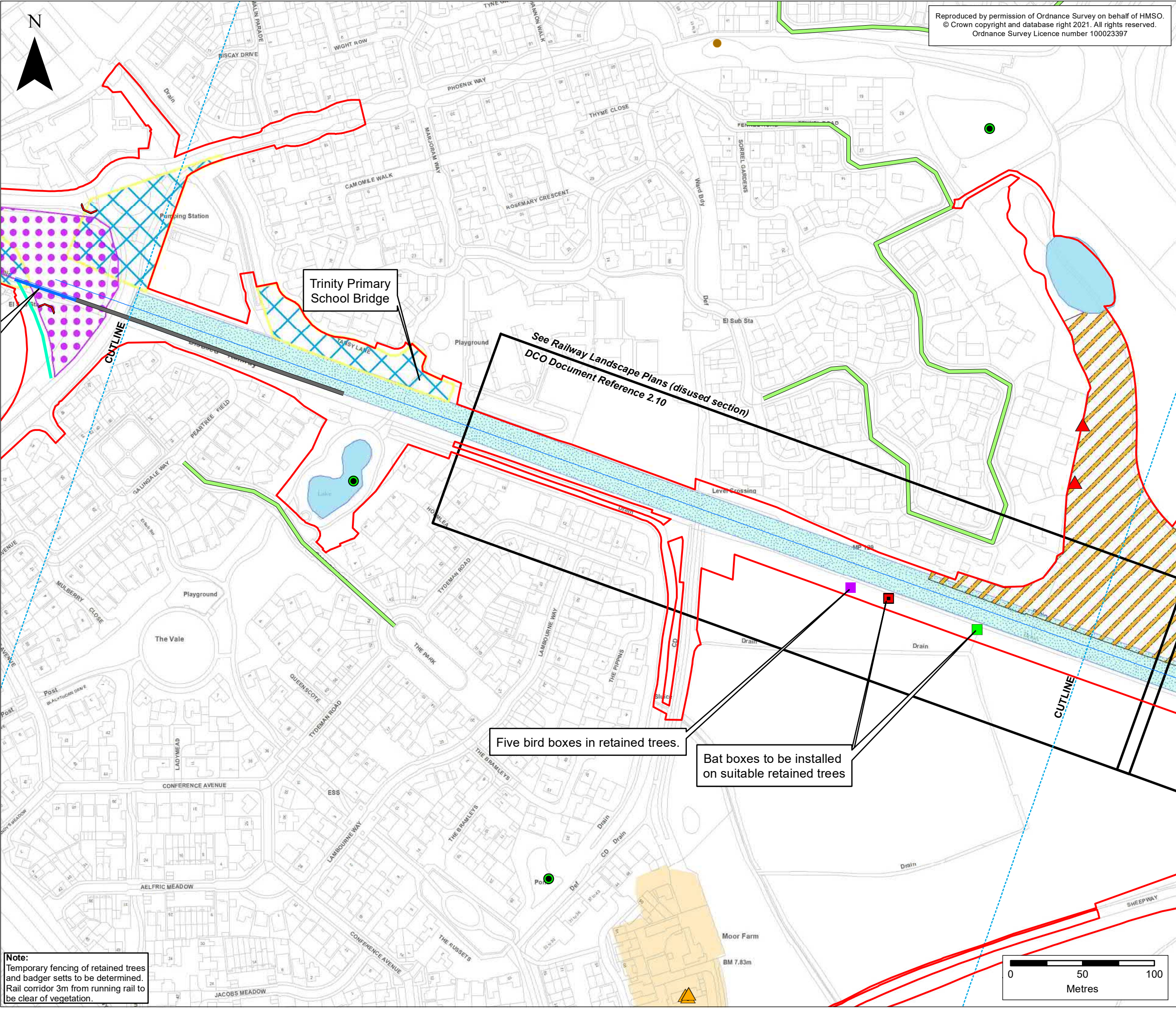
Project:
Portishead Branch Line (MetroWest Phase 1)

Drawing:
Environmental Master Plan (Sheet 2 of 23)
APFP Regulation 5(2)(o)

Drawn By: Martin Costello Date: 11/03/2021
 Checked By: Clare Williams Date: 11/03/2021
 Approved By: Carolyn Francis Date: 11/03/2021

Drawing No.: 674946 -001-024-A Revision: ES-C

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Trinity Primary School Bridge

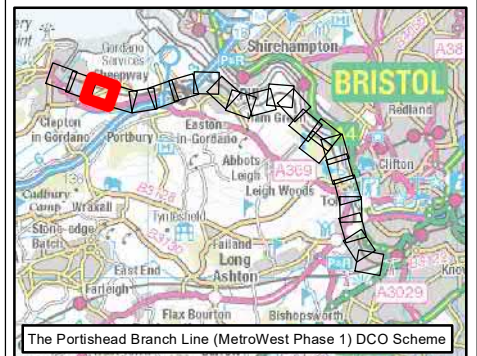
See Railway Landscape Plans (disused section)
 DCO Document Reference 2.10

Five bird boxes in retained trees.

Bat boxes to be installed on suitable retained trees

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- Portishead Eco-Park Reptile Receptor Site
- Reptile Trapping
- Barn Owl Box to be Relocated
- ★ Bat Roost
- Bat Hibernation Box
- Bat Box
- ▲ Reptile/GCN Hibernacula
- Reptile Fence for reptile trapping
- Reptile Displacement Areas
- Registered Toad Patrol
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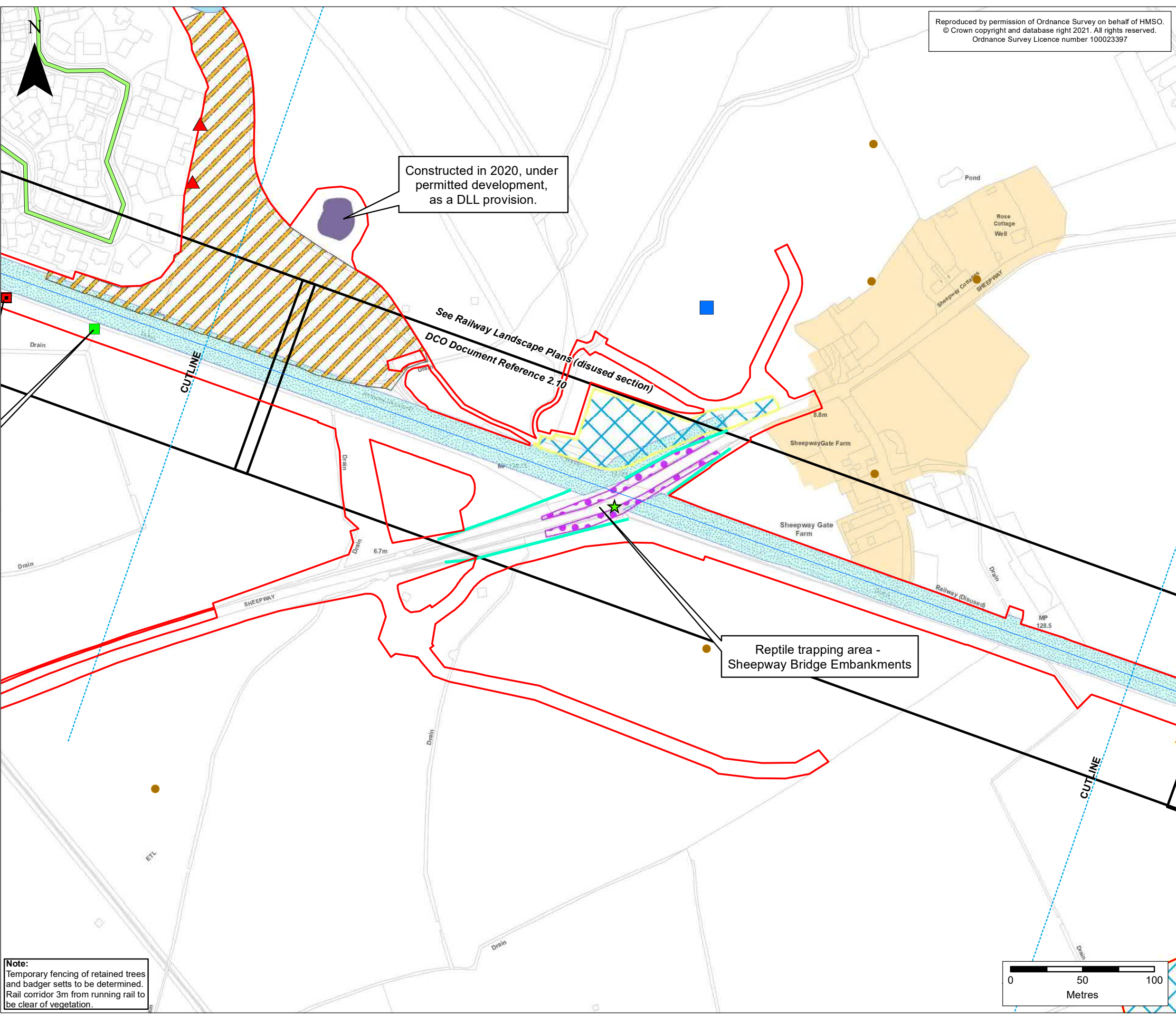
Project : **Portishead Branch Line (MetroWest Phase 1)**

Drawing : **Environmental Master Plan (Sheet 3 of 23) APFP Regulation 5(2)(o)**

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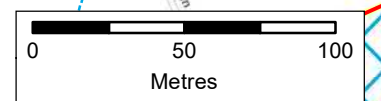


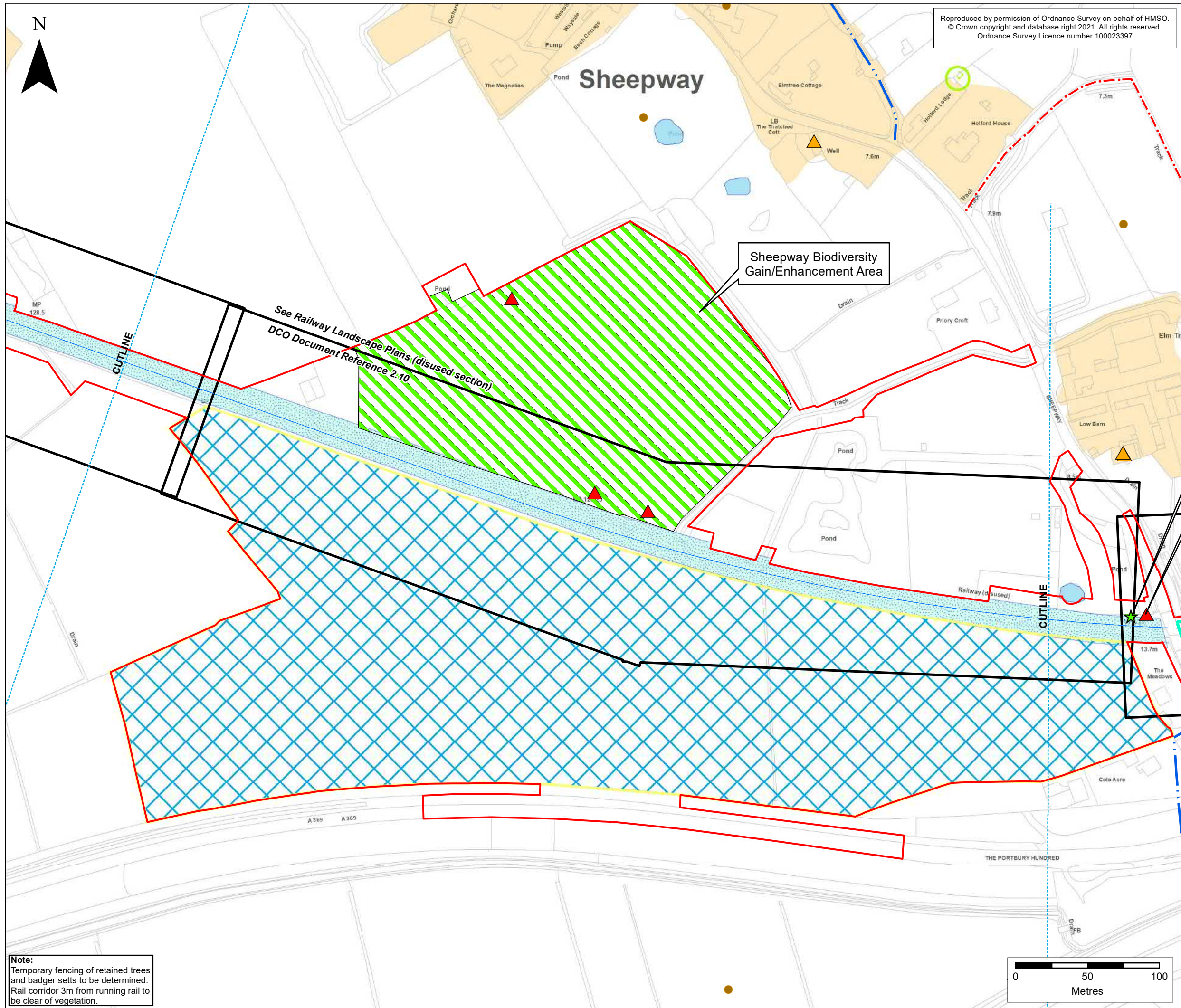
Constructed in 2020, under permitted development, as a DLL provision.

See Railway Landscape Plans (disused section) DCO Document Reference 2.10

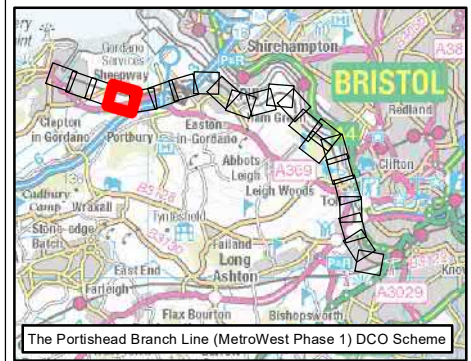
Reptile trapping area - Shepway Bridge Embankments

Note:
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 - ★ Bat Roost
 - ▲ Reptile/GCN Hibernacula
 - Reptile Fence for reptile trapping
 - Reptile Displacement Areas
 - Sheepway Biodiversity Gain/Enhancement Area
 - Tree Preservation Order (TPO)
 - Public Rights of Way**
 - Bridleway
 - Footpath
 - ▲ Listed Building
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 - Monument Point (Non-designated)
 - Monument area (Non-designated)

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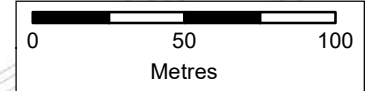
Drawing : Environmental Master Plan (Sheet 4 of 23)
 APFP Regulation 5(2)(o)

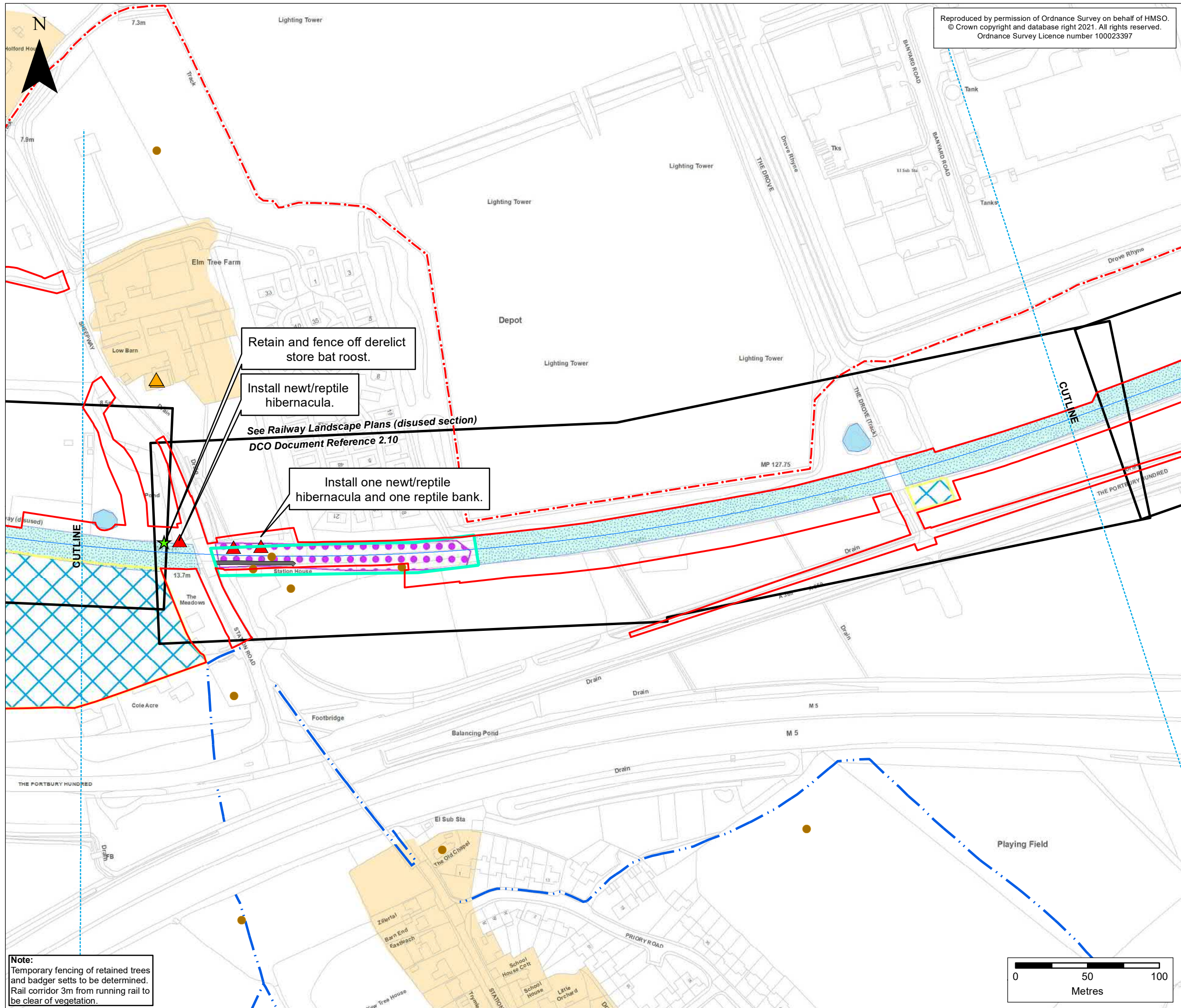
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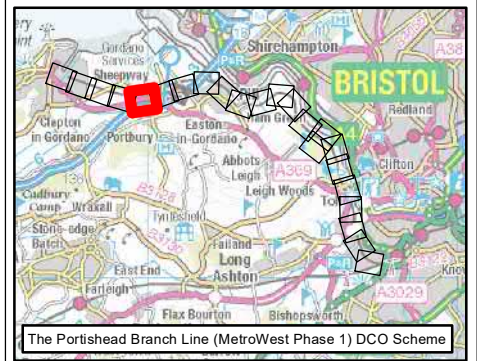
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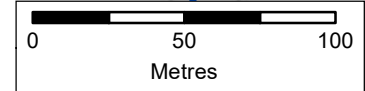
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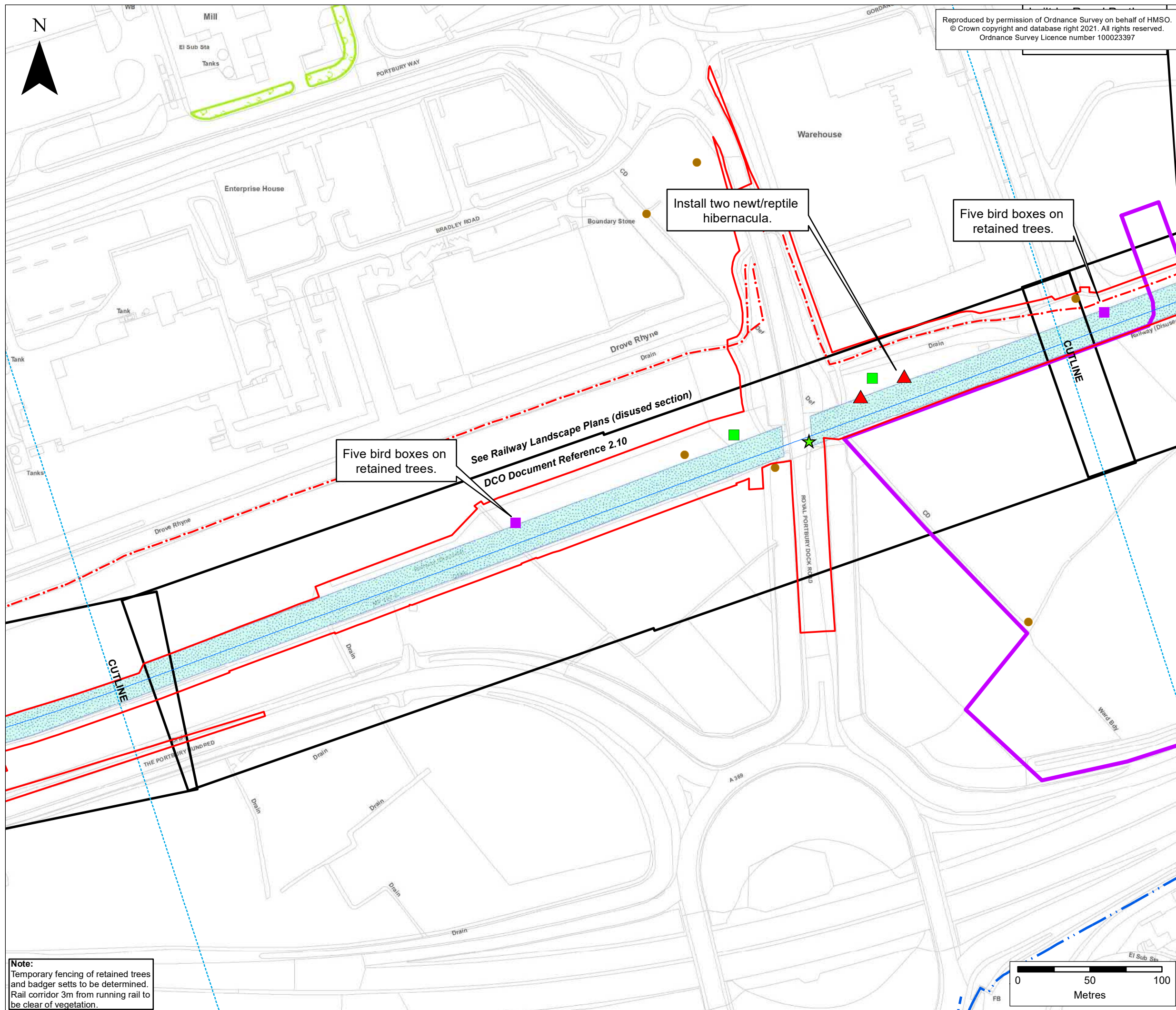
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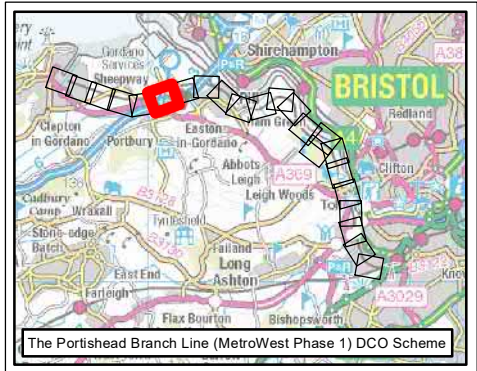
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The Portishead Branch Line (MetroWest Phase 1) DCO Scheme

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 - The Nationally Significant Infrastructure Project (NSIP) Works
 - ★ Bat Roost
 - Bird Box
 - Bat Box
 - ▲ Reptile/GCN Hibernacula
 - Reptile Displacement Areas
 - Planning Application
 - Tree Preservation Order (TPO)
 - Public Rights of Way**
 - Bridleway
 - Footpath
 - Monument Point (Non-designated)

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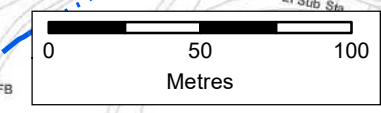
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APFP Regulation 5(2)(o)

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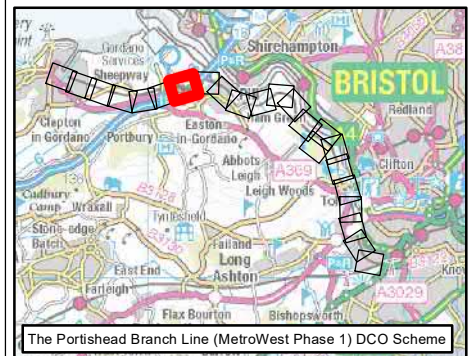
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 - Reptile Trapping
 - Bird Box
 - Basking Bank
 - Reptile/GCN Hibernacula
 - Reptile Fence for reptile trapping
 - Reptile Displacement Areas
 - Registered Toad Patrol
 - Planning Application
 - Public Rights of Way**
 - Bridleway
 - Listed Building
 - Non-designated Historic Structure
 - Monument Point (Non-designated)
 - Monument area (Non-designated)
 - Important Hedgerow

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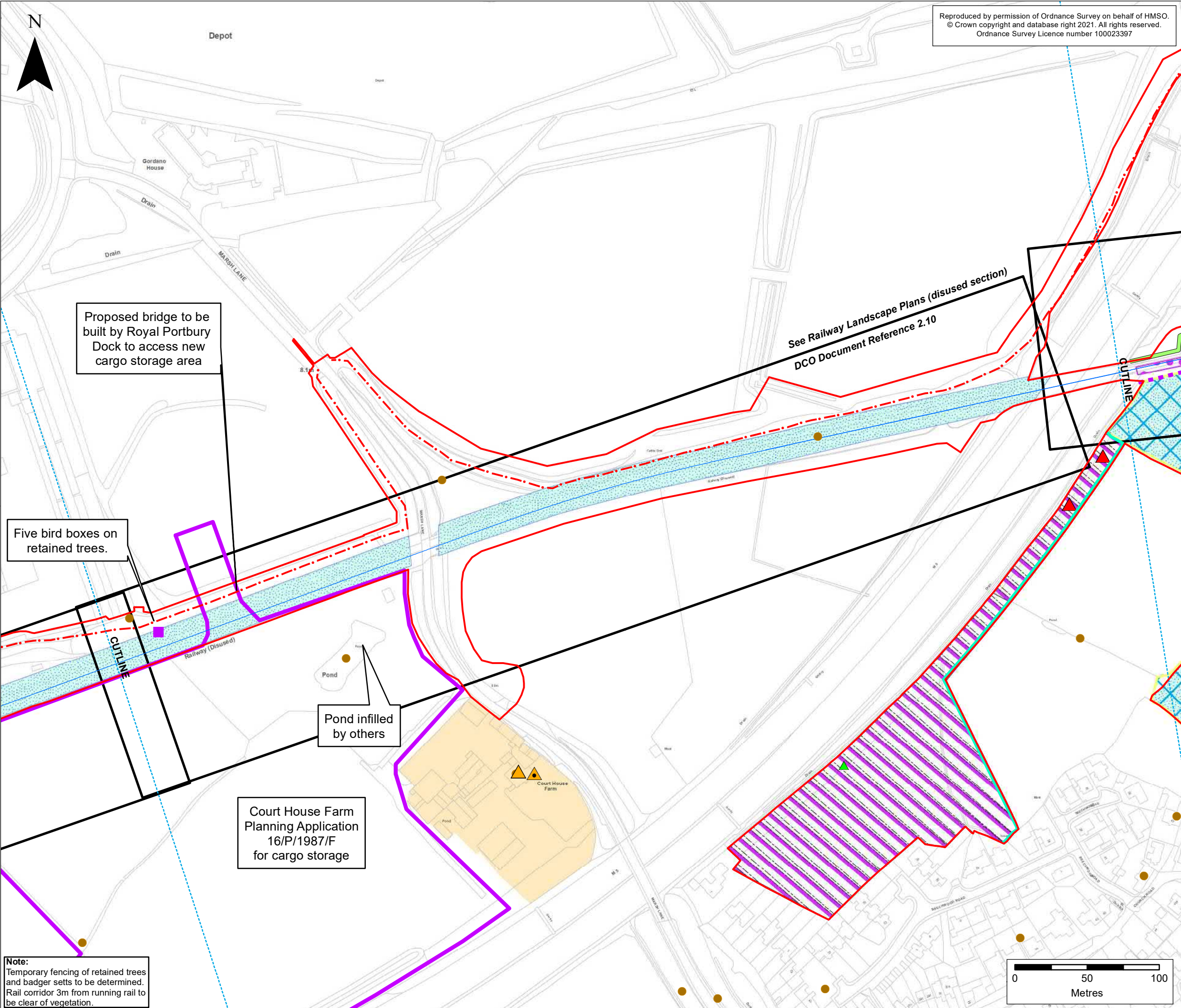
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Drawing: Environmental Master Plan (Sheet 7 of 23)
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Proposed bridge to be built by Royal Portbury Dock to access new cargo storage area

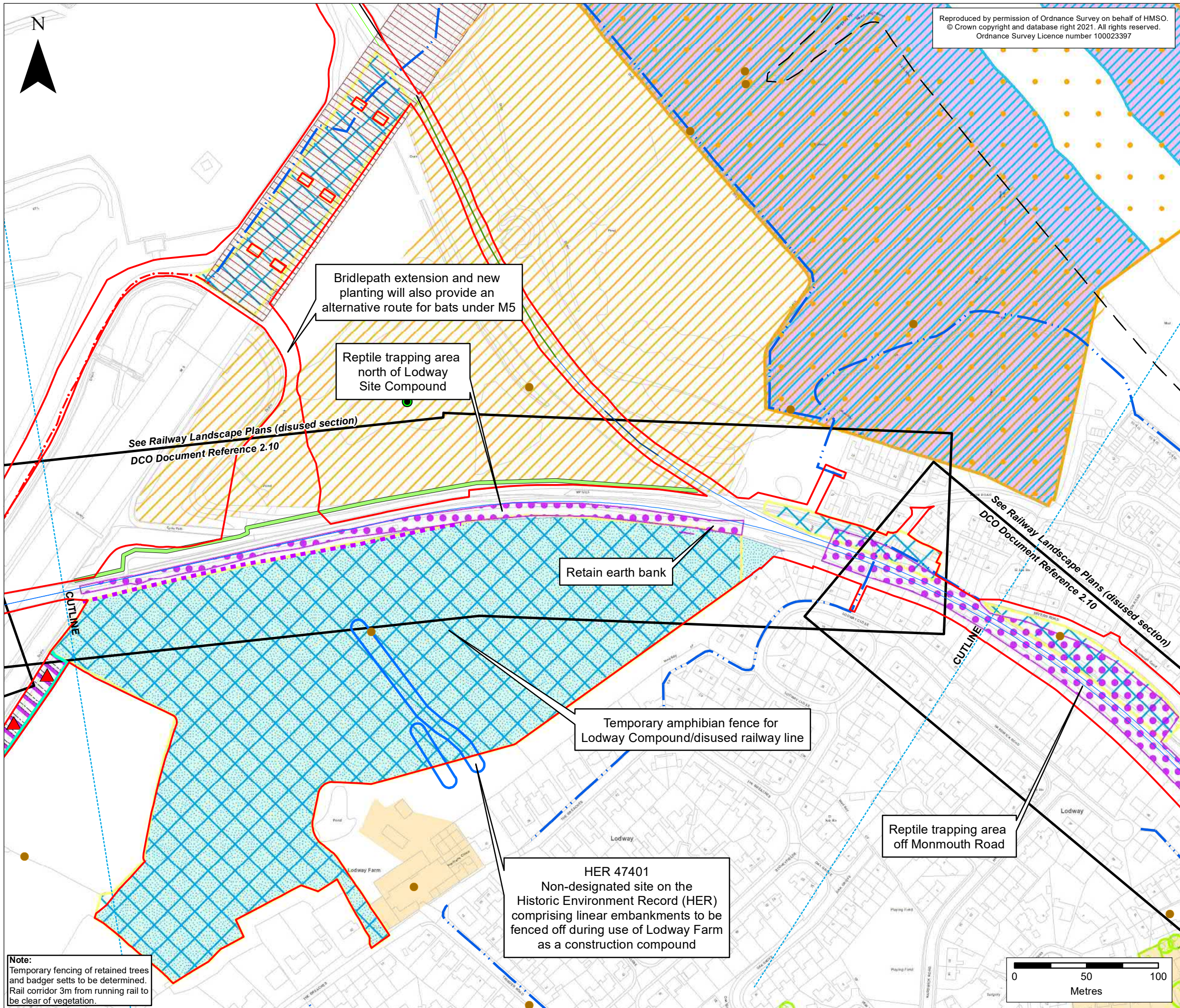
Five bird boxes on retained trees.

Pond infilled by others

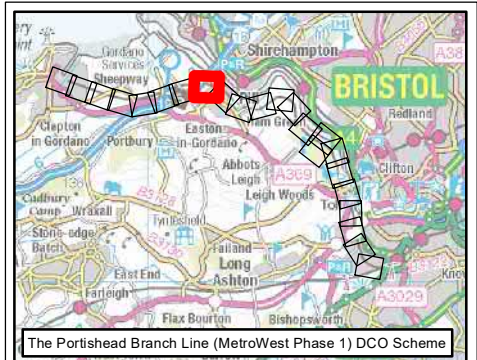
Court House Farm Planning Application 16/P/1987/F for cargo storage

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See Railway Landscape Plans (disused section)
 DCO Document Reference 2.10



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 - Habitat Suitable for Peregrine
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 - Reptile Trapping
 - Toad Breeding Pond
 - ▲ Reptile/GCN Hibernacula
 - Reptile Fence for reptile trapping
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 - Tree Preservation Order (TPO)
 - Public Rights of Way**
 - Bridleway
 - Footpath
 - Monument Point (Non-designated)
 - Monument area (Non-designated)
 - Archaeological Site to be Protected
 - Important Hedgerow
 - Special Area of Conservation (SAC)
 - Special Protection Area (SPA)
 - Site of Special Scientific Interest (SSSI)
 - Ramsar

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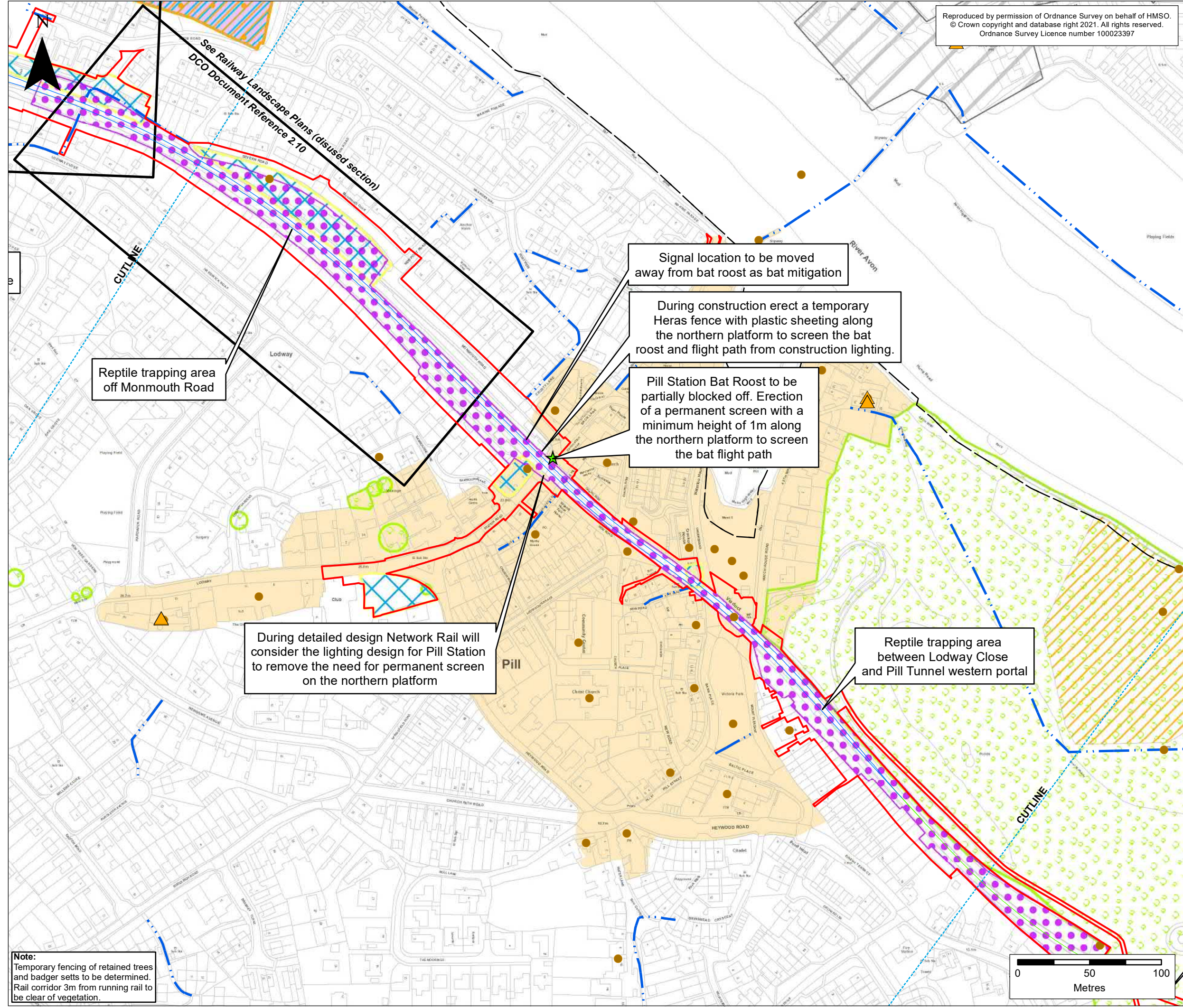
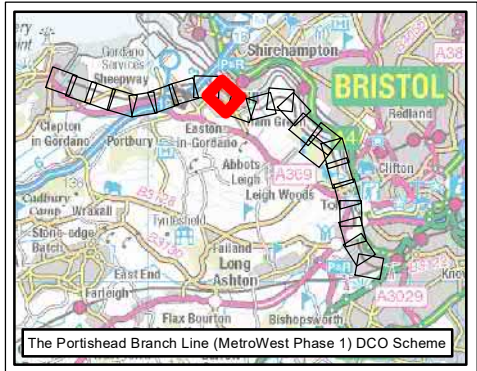
Drawing: Environmental Master Plan (Sheet 8 of 23)
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Drawing: **Environmental Master Plan (Sheet 9 of 23) APFP Regulation 5(2)(o)**

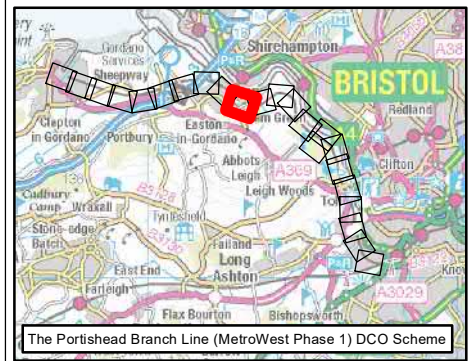
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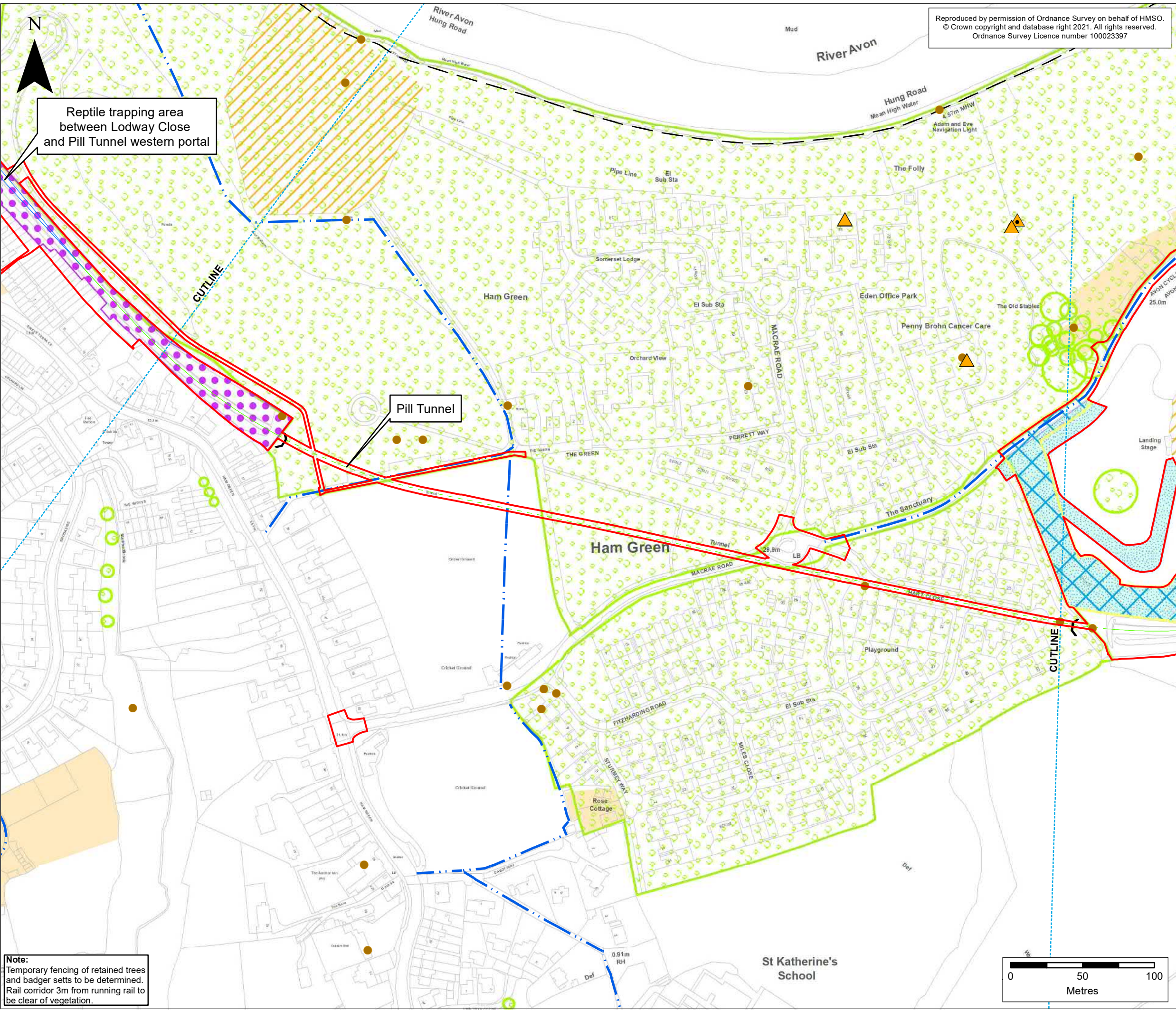
Project : Portishead Branch Line (MetroWest Phase 1)

Drawing : Environmental Master Plan (Sheet 10 of 23)
APFP Regulation 5(2)(o)

Drawn By : Martin Costello **Date:** 11/03/2021
Checked By : Clare Williams **Date:** 11/03/2021
Approved By : Carolyn Francis **Date:** 11/03/2021

Drawing No. : 674946 -001-024-A **Revision** ES-C

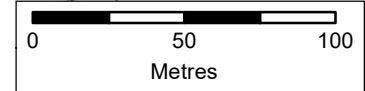
Drawing Scale : 1:2,500 @ A3

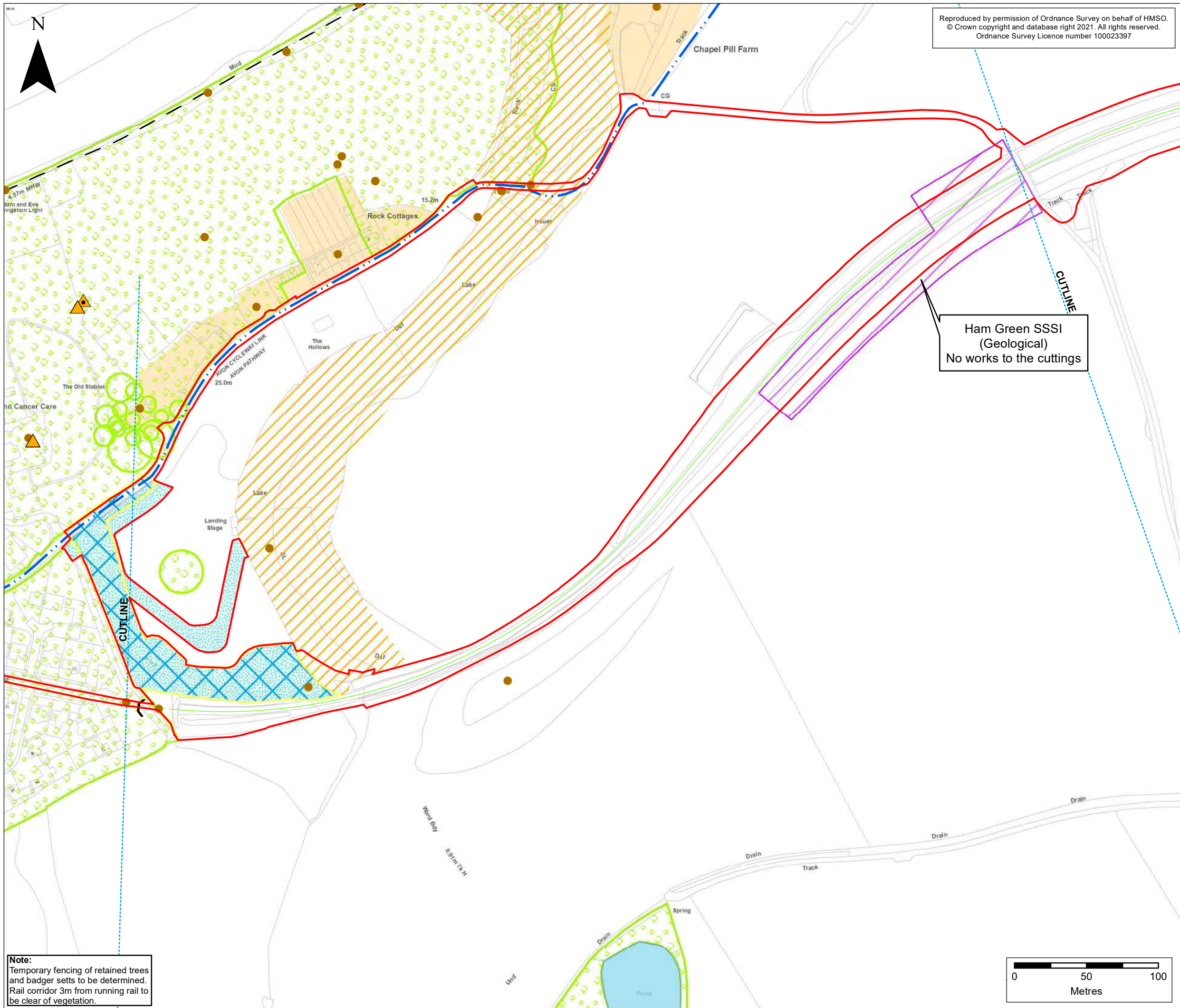


Reptile trapping area between Lodway Close and Pill Tunnel western portal

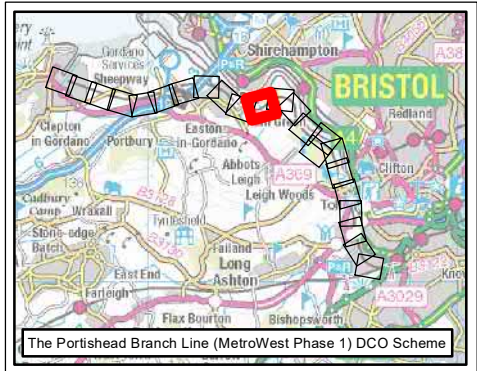
Pill Tunnel

Note:
Temporary fencing of retained trees and badger setts to be determined.
Rail corridor 3m from running rail to be clear of vegetation.





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The Portishead Branch Line (MetroWest Phase 1) DCO Scheme

- KEY**
- Order Limits
 - Local Authority Boundary
- Portishead Branch Line**
- The Associated Development Works
 - Section in Tunnel
 - Temporary construction compounds
- Environmental Mitigation & Constraints**
- Great Crested Newt (GCN) Pond
 - Habitat Suitable for Otters
 - Reptile Displacement Areas
 - Tree Preservation Order (TPO)
- Public Rights of Way**
- Footpath
 - ▲ Listed Building
 - ▲ Non-designated Historic Structure
 - Monument Point (Non-designated)
 - Monument area (Non-designated)
 - Site of Special Scientific Interest (SSSI)

Ham Green SSSI
 (Geological)
 No works to the cuttings

Note:
 Temporary fencing of retained trees and badger setts to be determined.
 Rail corridor 3m from running rail to be clear of vegetation.

Rev	By	Chkd	Apprvd	Date	Description
ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
ES-B	JG	CW	CF	17/09/2020	Second draft
ES-A	JG	CW	CF	21/07/2020	First draft

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Project: Portishead Branch Line (MetroWest Phase 1)

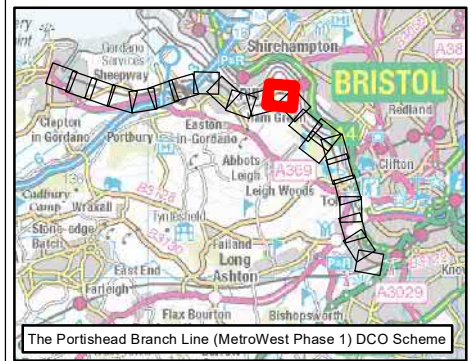
Drawing: Environmental Master Plan (Sheet 11 of 23)
 APFP Regulation 5(2)(o)

Drawn By: Martin Costello Date: 11/03/2021
 Checked By: Clare Williams Date: 11/03/2021
 Approved By: Carolyn Francis Date: 11/03/2021

Drawing No.: 674946 -001-024-A Revision: ES-C

Drawing Scale: 1:2,500 @ A3

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KEY

- Order Limits
- Local Authority Boundary
- Portishead Branch Line**
- The Associated Development Works
- Public Rights of Way**
- Footpath
- Conservation Areas (CA)
- Monument Point (Non-designated)
- Site of Special Scientific Interest (SSSI)

Rev	By	Chkd	Apprvd	Date	Description
ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
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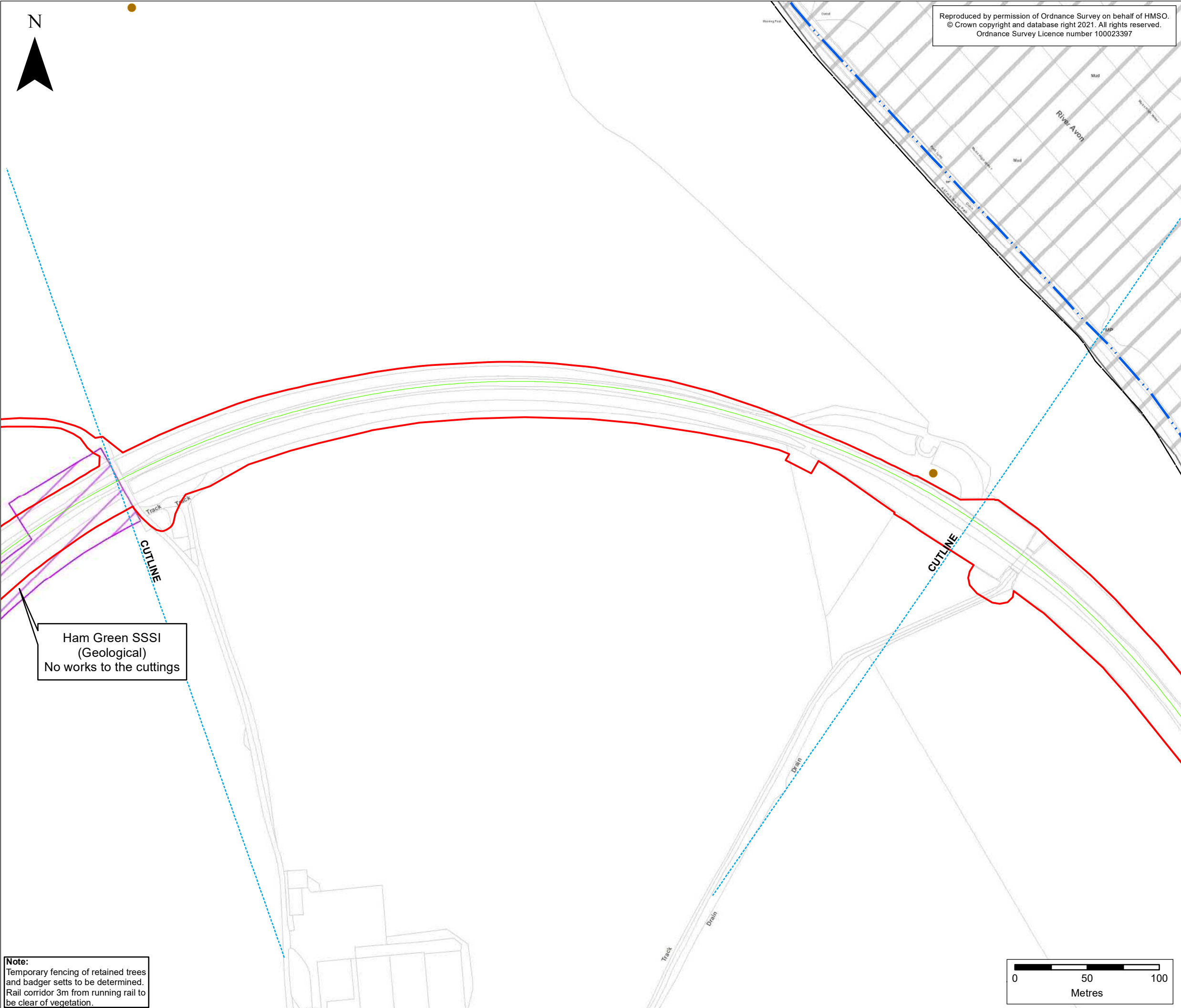
Project : **Portishead Branch Line (MetroWest Phase 1)**

Drawing : **Environmental Master Plan (Sheet 12 of 23) APFP Regulation 5(2)(o)**

Drawn By : Martin Costello Date: 11/03/2021
 Checked By : Clare Williams Date: 11/03/2021
 Approved By : Carolyn Francis Date: 11/03/2021

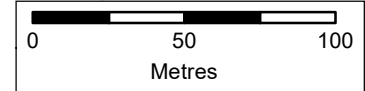
Drawing No. : **674946 -001-024-A** Revision **ES-C**

Drawing Scale : 1:2,500 @ A3

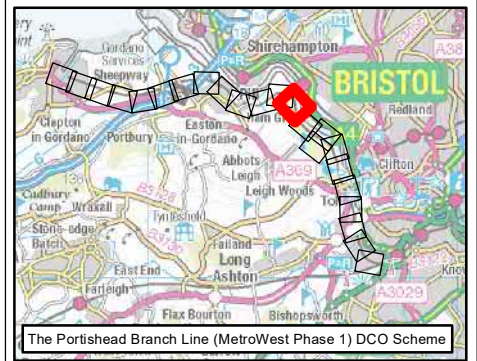


Ham Green SSSI (Geological)
 No works to the cuttings

Note:
 Temporary fencing of retained trees and badger setts to be determined.
 Rail corridor 3m from running rail to be clear of vegetation.



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KEY

- Order Limits
- Local Authority Boundary
- Portishead Branch Line**
- The Associated Development Works
- Environmental Mitigation & Constraints**
- Habitat Suitable for Otters
- Habitat Suitable for Peregrine
- ✕ Whitebeam Planting Location
- Public Rights of Way**
- Footpath
- Conservation Areas (CA)
- ▲ Listed Building
- Monument Point (Non-designated)
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Rev	By	Chkd	Apprvd	Date	Description
ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
ES-B	JG	CW	CF	17/09/2020	Second draft
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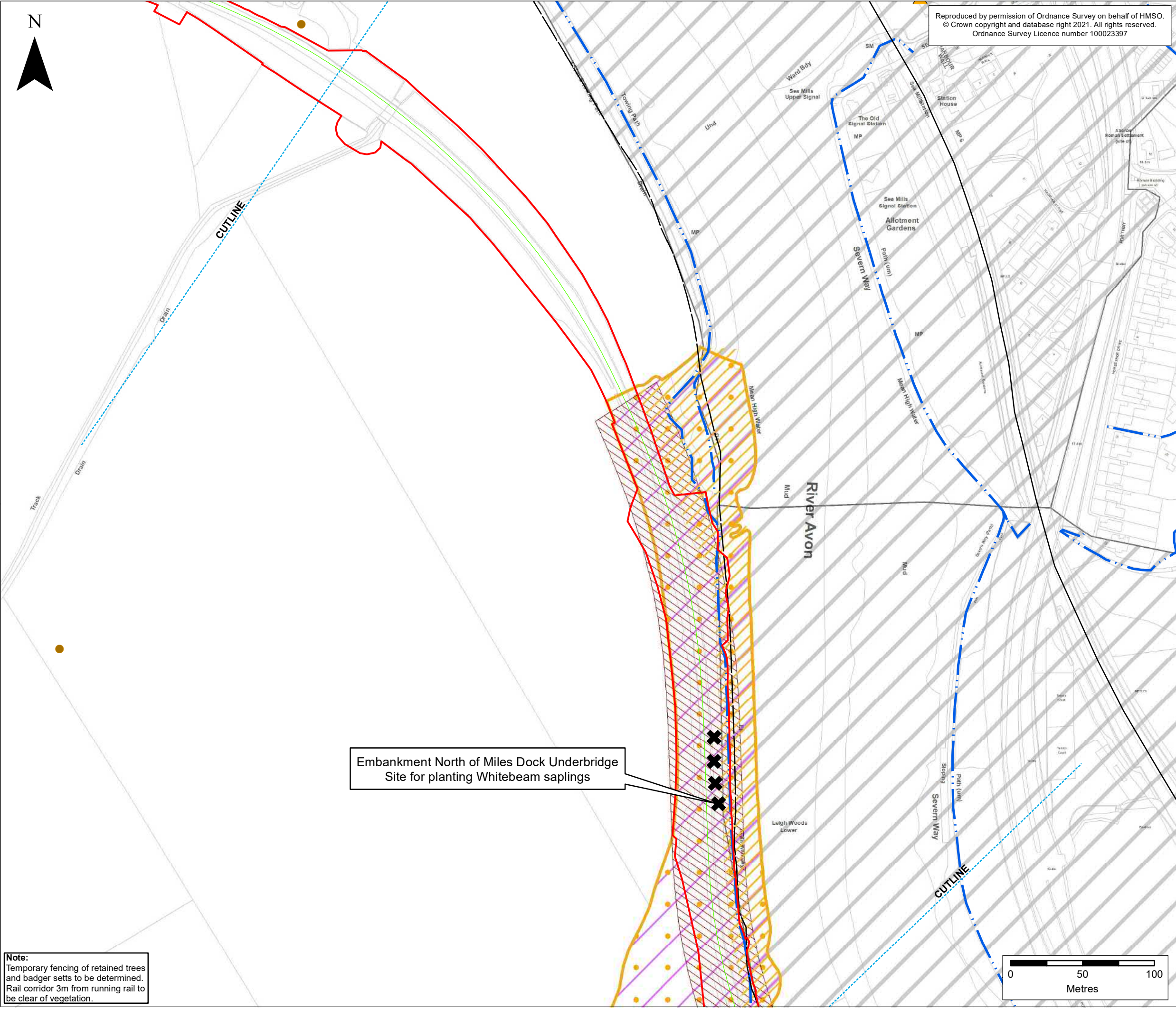
Project : **Portishead Branch Line (MetroWest Phase 1)**

Drawing : **Environmental Master Plan (Sheet 13 of 23)
 APFP Regulation 5(2)(o)**

Drawn By : Martin Costello Date: 11/03/2021
 Checked By : Clare Williams Date: 11/03/2021
 Approved By : Carolyn Francis Date: 11/03/2021

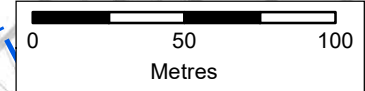
Drawing No. : **674946 -001-024-A** Revision **ES-C**

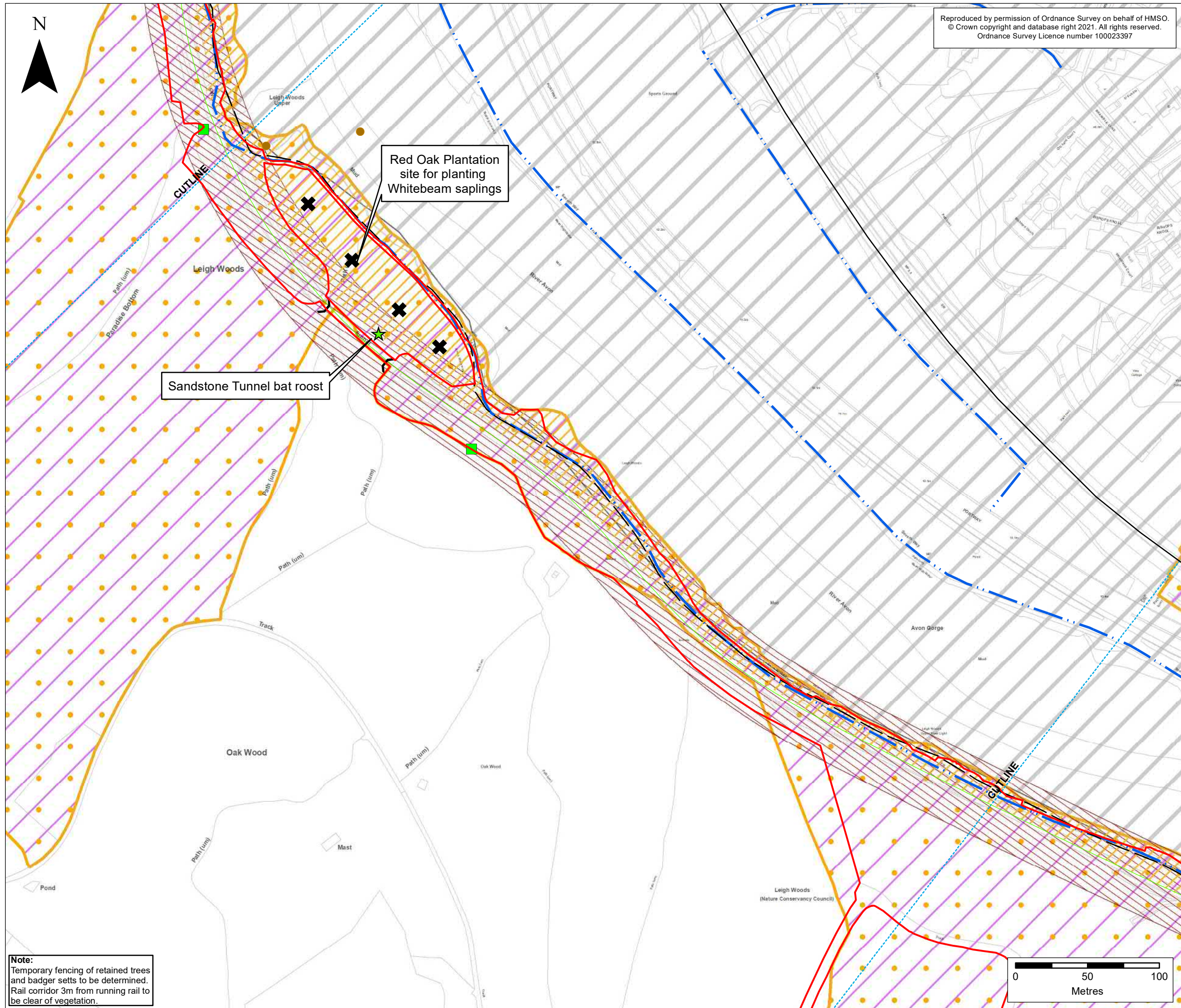
Drawing Scale : 1:2,500 @ A3



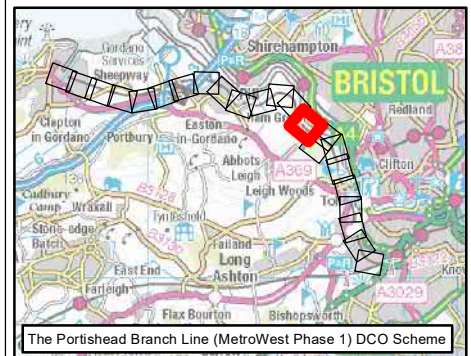
Embankment North of Miles Dock Underbridge
 Site for planting Whitebeam saplings

Note:
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- Portishead Branch Line**
- The Associated Development Works
- Environmental Mitigation & Constraints**
- Habitat Suitable for Otters
- Habitat Suitable for Peregrine
- ✕ Whitebeam Planting Location
- ★ Bat Roost
- Bat Box
- Public Rights of Way**
- Footpath
- Conservation Areas (CA)
- Monument Point (Non-designated)
- Special Area of Conservation (SAC)
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Rev	By	Chkd	Apprvd	Date	Description
ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
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Project : Portishead Branch Line (MetroWest Phase 1)

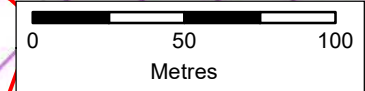
Drawing : Environmental Master Plan (Sheet 14 of 23)
APFP Regulation 5(2)(o)

Drawn By : Martin Costello **Date:** 11/03/2021
Checked By : Clare Williams **Date:** 11/03/2021
Approved By : Carolyn Francis **Date:** 11/03/2021

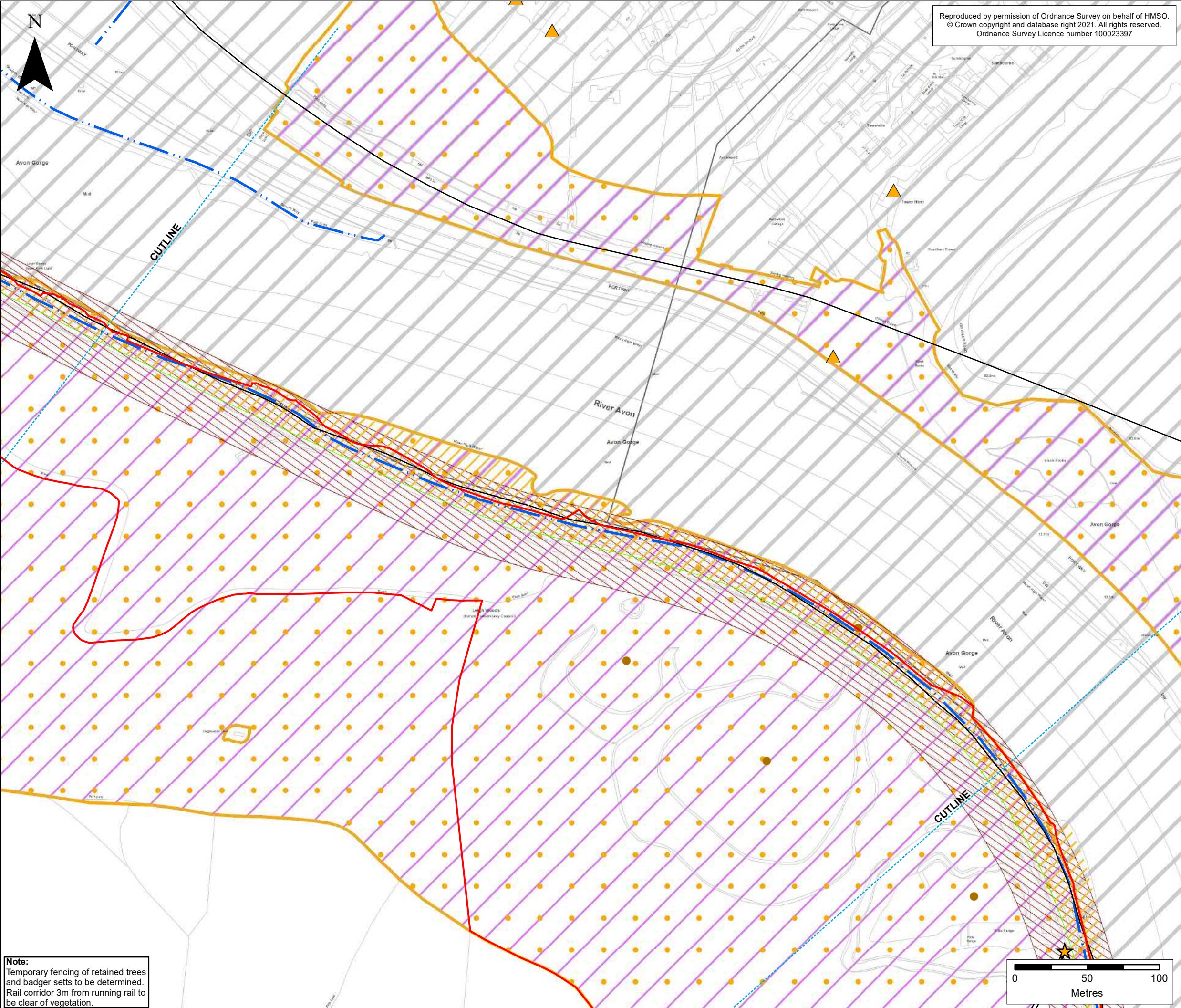
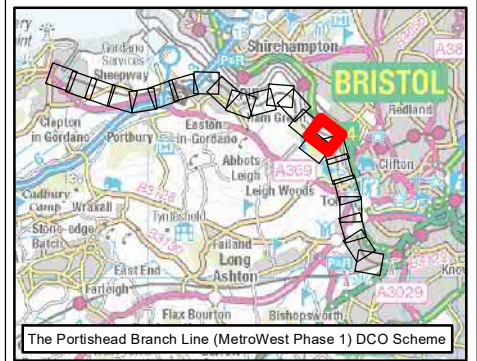
Drawing No. : 674946 -001-024-A **Revision** ES-C

Drawing Scale : 1:2,500 @ A3

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KEY

- Order Limits
- Local Authority Boundary
- Portishead Branch Line**
- The Associated Development Works
- Environmental Mitigation & Constraints**
- Habitat Suitable for Otters
- Habitat Suitable for Peregrine
- ★ Pale St John's Wort
- Public Rights of Way**
- Footpath
- Conservation Areas (CA)
- ▲ Listed Building
- Monument Point (Non-designated)
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Rev	By	Chkd	Apprvd	Date	Description
ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
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Project : **Portishead Branch Line (MetroWest Phase 1)**

Drawing : **Environmental Master Plan (Sheet 15 of 23) APFP Regulation 5(2)(o)**

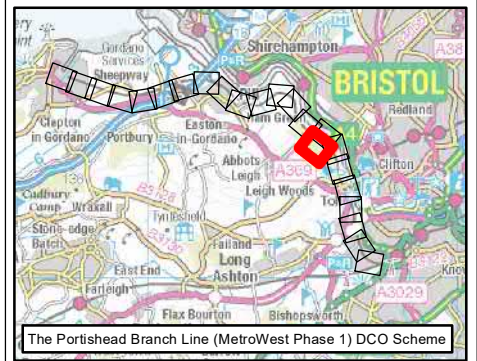
Drawn By : Martin Costello Date: 11/03/2021
Checked By : Clare Williams Date: 11/03/2021
Approved By : Carolyn Francis Date: 11/03/2021

Drawing No. : **674946 -001-024-A** Revision **ES-C**

Drawing Scale : 1:2,500 @ A3

Note:
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KEY

- Order Limits
- Local Authority Boundary
- Portishead Branch Line**
- The Associated Development Works
- Environmental Mitigation & Constraints**
- Habitat Suitable for Otters
- Habitat Suitable for Peregrine
- Public Rights of Way**
- Footpath
- Conservation Areas (CA)
- Monument Point (Non-designated)
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)
- National Nature Reserve (NNR)

Rev	By	Chkd	Apprvd	Date	Description
ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
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ES-A	JG	CW	CF	21/07/2020	First draft



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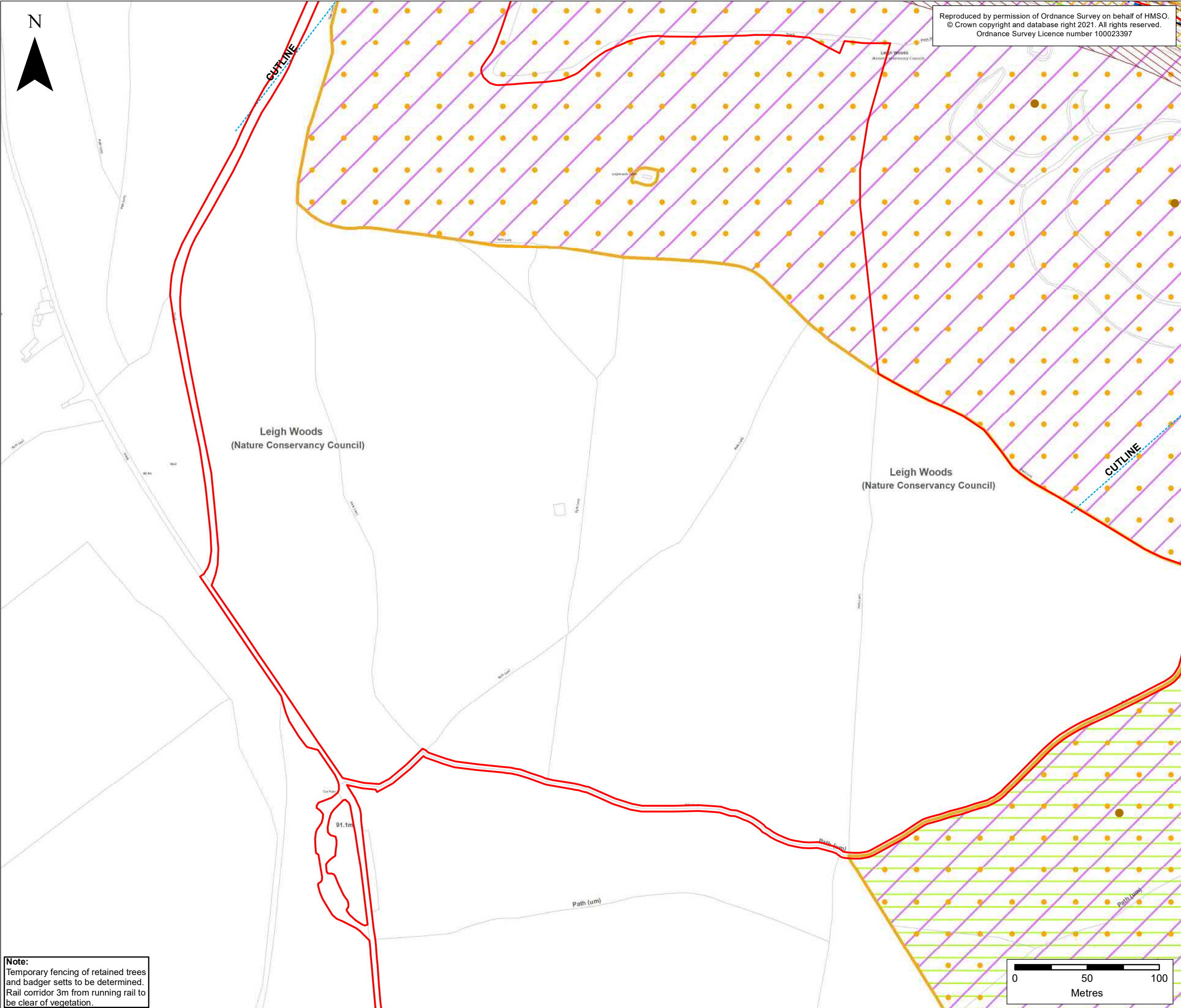
Project : **Portishead Branch Line (MetroWest Phase 1)**

Drawing : **Environmental Master Plan (Sheet 16 of 23) APFP Regulation 5(2)(o)**

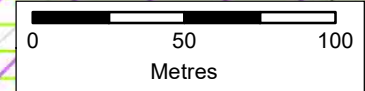
Drawn By : Martin Costello Date: 11/03/2021
Checked By : Clare Williams Date: 11/03/2021
Approved By : Carolyn Francis Date: 11/03/2021

Drawing No. : **674946 -001-024-A** Revision **ES-C**

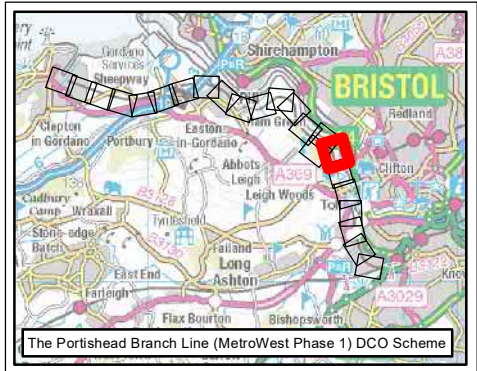
Drawing Scale : 1:2,500 @ A3



Note:
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Rail corridor 3m from running rail to be clear of vegetation.



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- KEY**
- Order Limits
 - Local Authority Boundary
 - Portishead Branch Line**
 - The Associated Development Works
 - Temporary construction compounds
 - Environmental Mitigation & Constraints**
 - Habitat Suitable for Otters
 - Habitat Suitable for Peregrine
 - ★ Pale St John's Wort
 - Bat Box
 - Reptile Displacement Areas
 - Public Rights of Way**
 - Footpath
 - Conservation Areas (CA)
 - Monument Point (Non-designated)
 - Special Area of Conservation (SAC)
 - Site of Special Scientific Interest (SSSI)
 - National Nature Reserve (NNR)

ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
ES-B	JG	CW	CF	17/09/2020	Second draft
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Rev	By	Chkd	Apprvd	Date	Description

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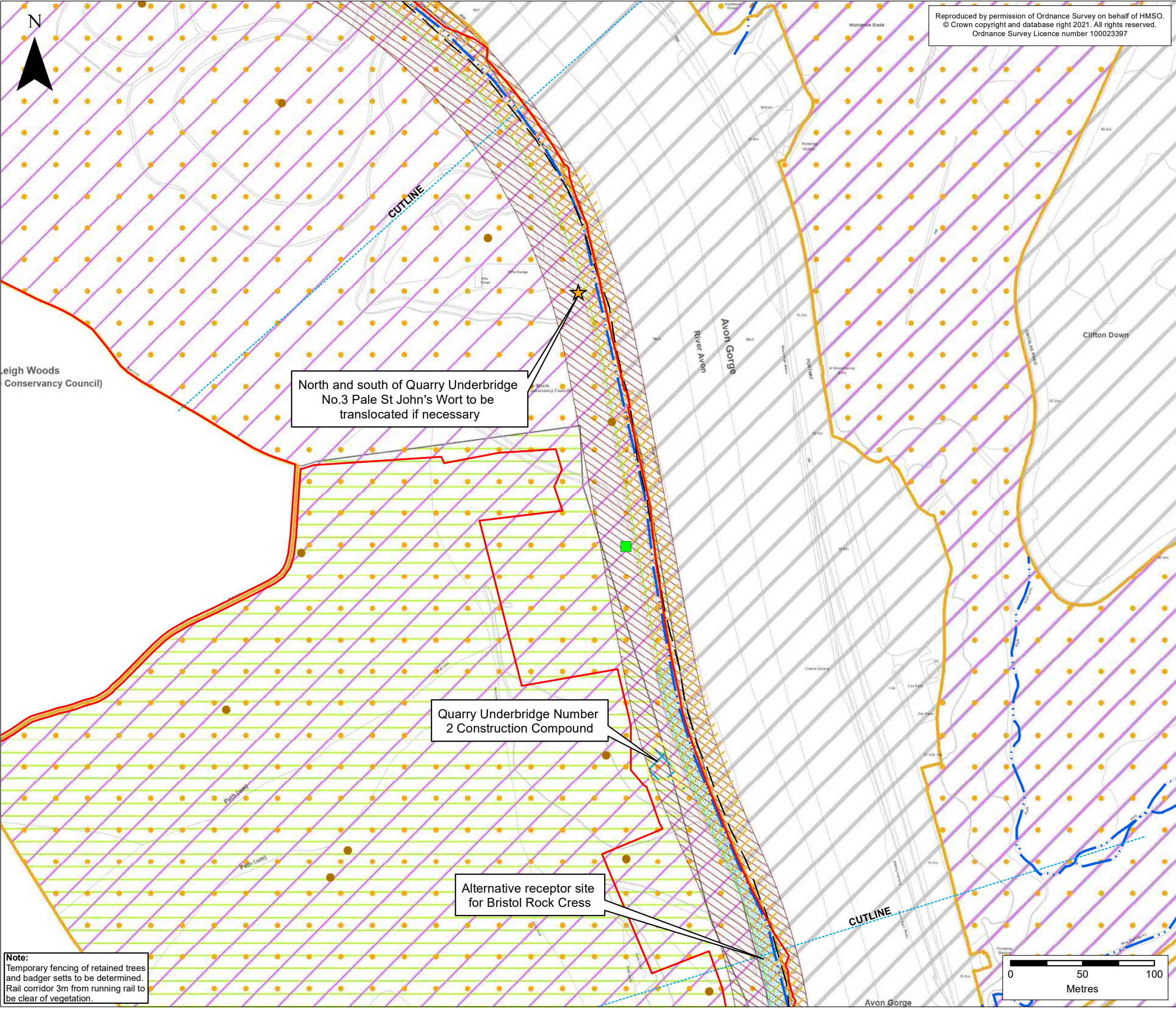
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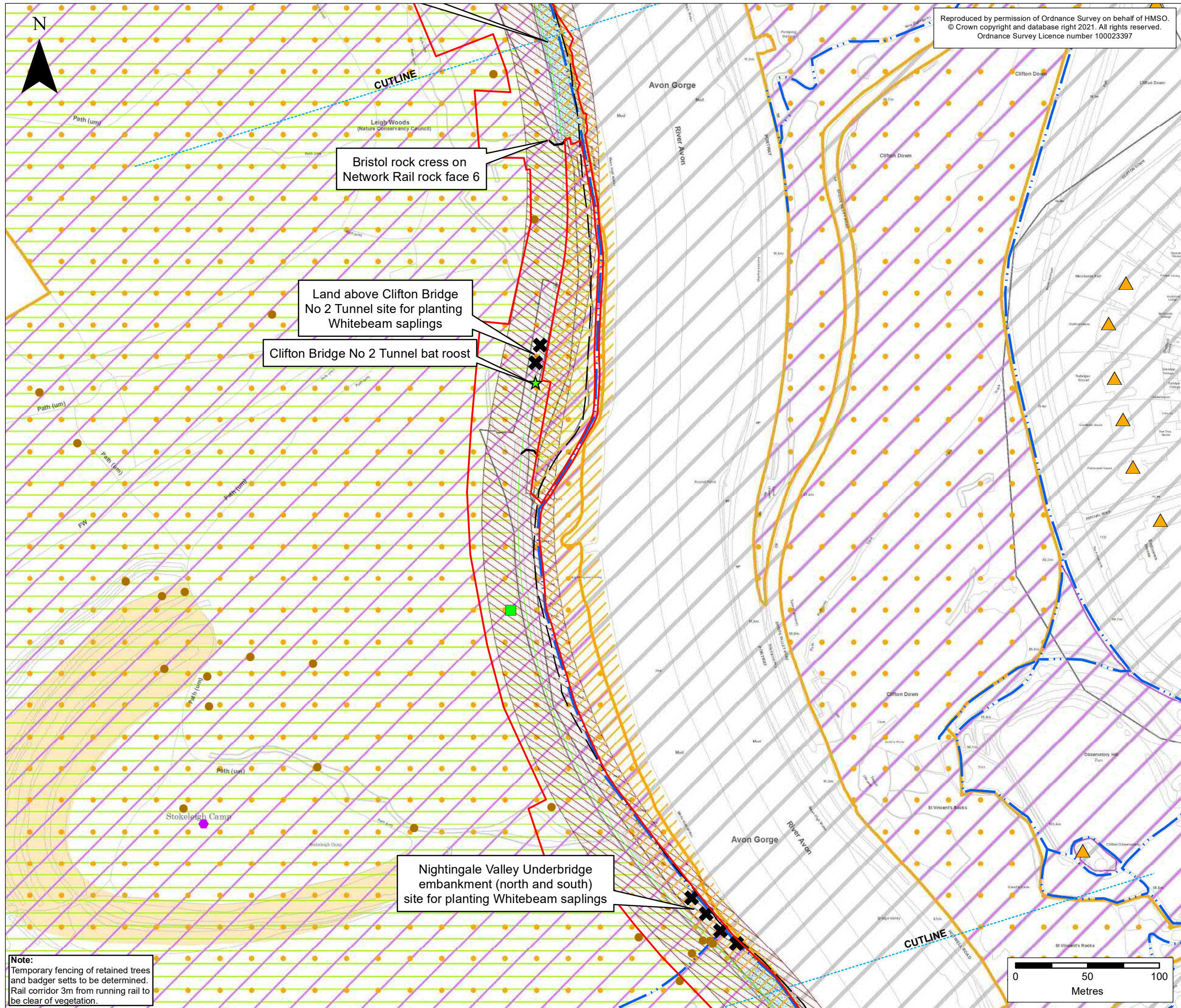
Project: Portishead Branch Line (MetroWest Phase 1)

Drawing: Environmental Master Plan (Sheet 17 of 23) APFP Regulation 5(2)(o)

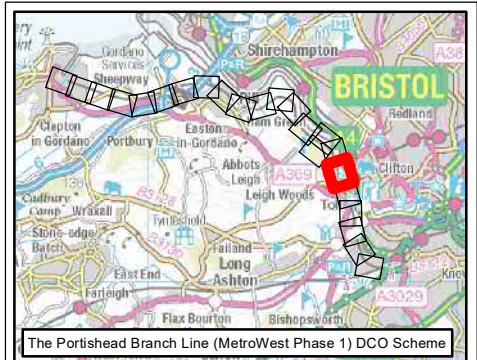
Drawn By: Martin Costello Date: 11/03/2021
 Checked By: Clare Williams Date: 11/03/2021
 Approved By: Carolyn Francis Date: 11/03/2021

Drawing No.: 674946 -001-024-A Revision ES-C
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- KEY**
- Order Limits
 - Local Authority Boundary
 - Portishead Branch Line**
 - The Associated Development Works
 - Section in Tunnel
 - Environmental Mitigation & Constraints**
 - Habitat Suitable for Otters
 - Habitat Suitable for Peregrine
 - ✕ Whitebeam Planting Location
 - ★ Bat Roost
 - Bat Box
 - Reptile Displacement Areas
 - Public Rights of Way**
 - Footpath
 - Conservation Areas (CA)
 - ▲ Listed Building
 - Monument Point (Non-designated)
 - Scheduled Monument point (Non-designated)
 - Monument area (Non-designated)
 - Special Area of Conservation (SAC)
 - Site of Special Scientific Interest (SSSI)
 - National Nature Reserve (NNR)

Rev	By	Chkd	Apprvd	Date	Description
ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
ES-B	JG	CW	CF	17/09/2020	Second draft
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Project : Portishead Branch Line (MetroWest Phase 1)

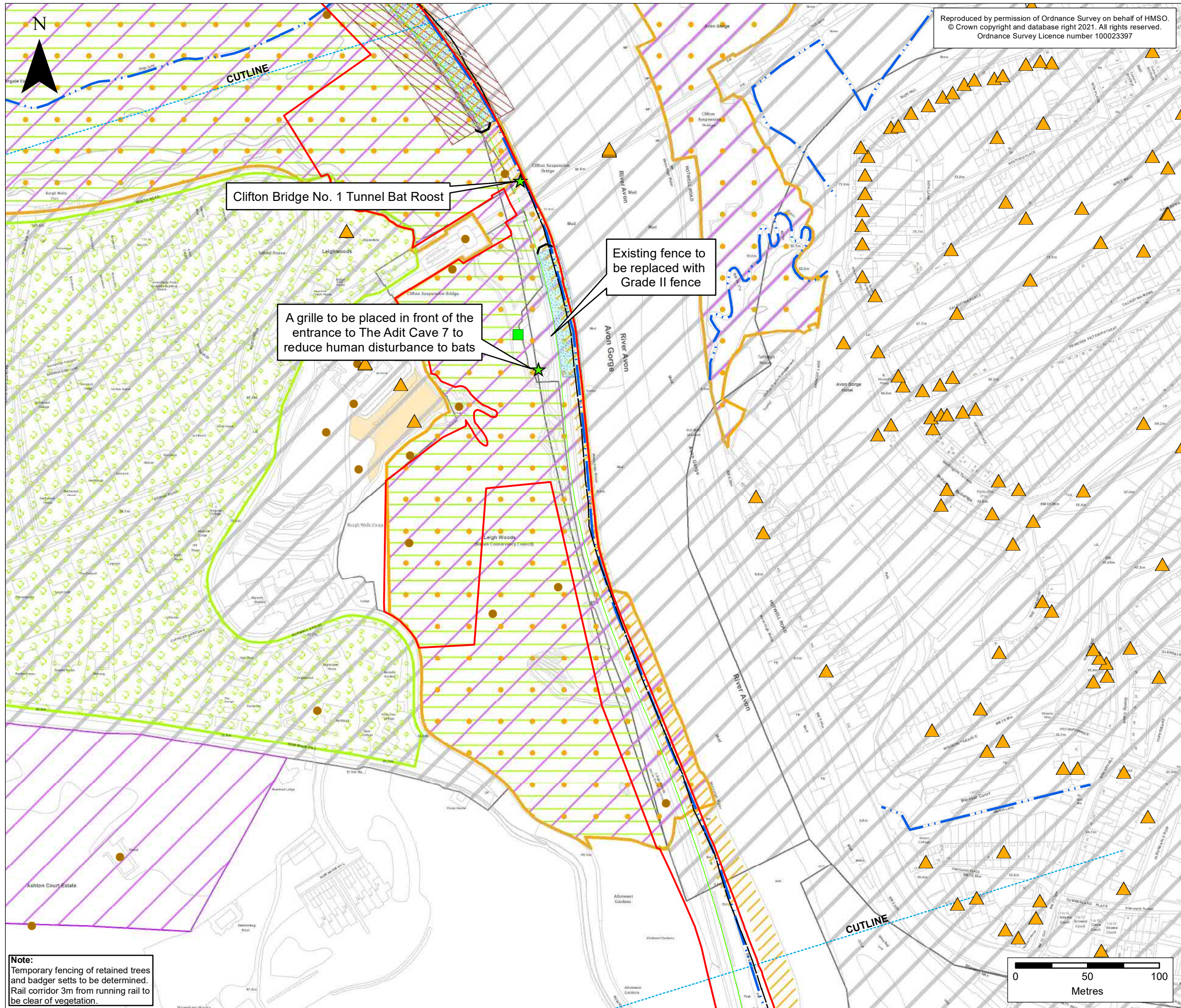
Drawing : Environmental Master Plan (Sheet 18 of 23)
 APFP Regulation 5(2)(o)

Drawn By : Martin Costello **Date:** 11/03/2021
Checked By : Clare Williams **Date:** 11/03/2021
Approved By : Carolyn Francis **Date:** 11/03/2021

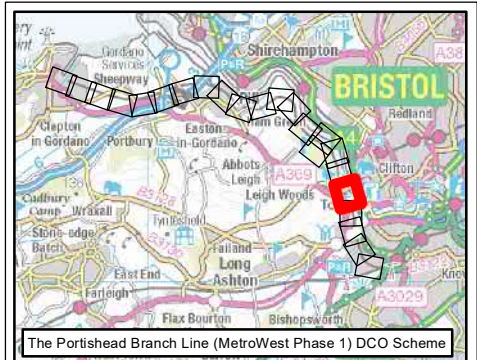
Drawing No. : 674946 -001-024-A **Revision** ES-C

Drawing Scale : 1:2,500 @ A3

Note:
 Temporary fencing of retained trees and badger setts to be determined.
 Rail corridor 3m from running rail to be clear of vegetation.



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The Portishead Branch Line (MetroWest Phase 1) DCO Scheme

- KEY**
- Order Limits
 - Local Authority Boundary
 - Portishead Branch Line**
 - The Associated Development Works
 - Section in Tunnel
 - Environmental Mitigation & Constraints**
 - Habitat Suitable for Otters
 - Habitat Suitable for Peregrine
 - ★ Bat Roost
 - Bat Box
 - Reptile Displacement Areas
 - Tree Preservation Order (TPO)
 - Public Rights of Way**
 - Footpath
 - Conservation Areas (CA)
 - Listed Building
 - Non-designated Historic Structure
 - Monument Point (Non-designated)
 - Monument area (Non-designated)
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ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
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Project: Portishead Branch Line (MetroWest Phase 1)

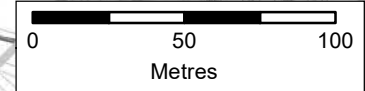
Drawing: Environmental Master Plan (Sheet 19 of 23)
APFP Regulation 5(2)(o)

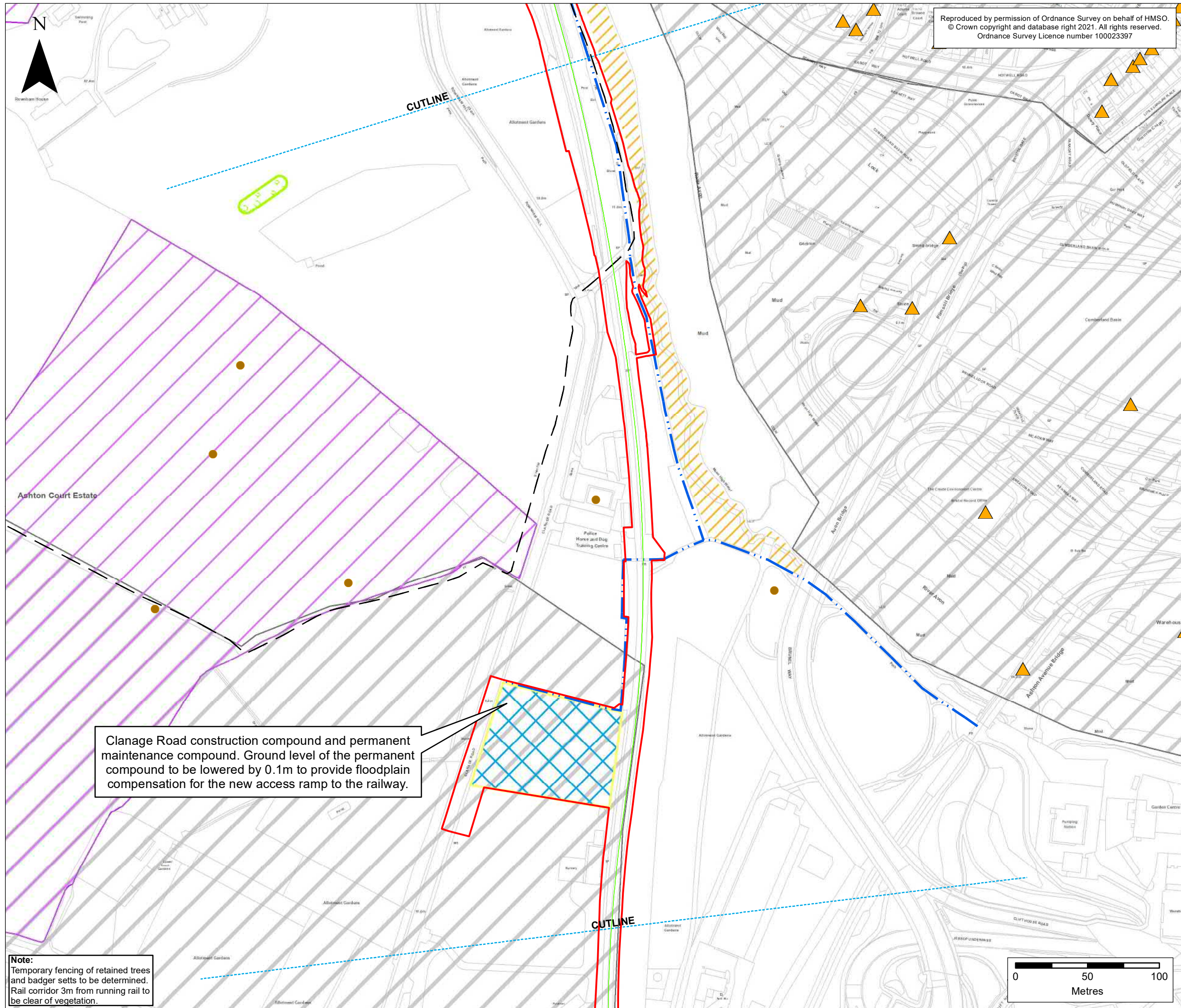
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Approved By: Carolyn Francis **Date:** 11/03/2021

Drawing No.: 674946 -001-024-A **Revision:** ES-C

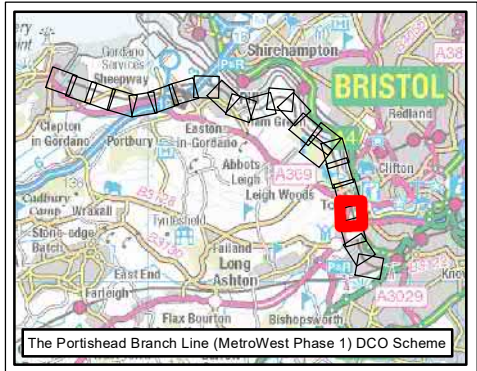
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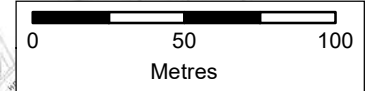
The Portishead Branch Line (MetroWest Phase 1) DCO Scheme

- KEY**
- Order Limits
 - Local Authority Boundary
 - The Associated Development Works
 - Temporary construction compounds
 - Environmental Mitigation & Constraints**
 - Habitat Suitable for Otters
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Rev	By	Chkd	Apprvd	Date	Description
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ES-A	JG	CW	CF	21/07/2020	First draft

Clanage Road construction compound and permanent maintenance compound. Ground level of the permanent compound to be lowered by 0.1m to provide floodplain compensation for the new access ramp to the railway.

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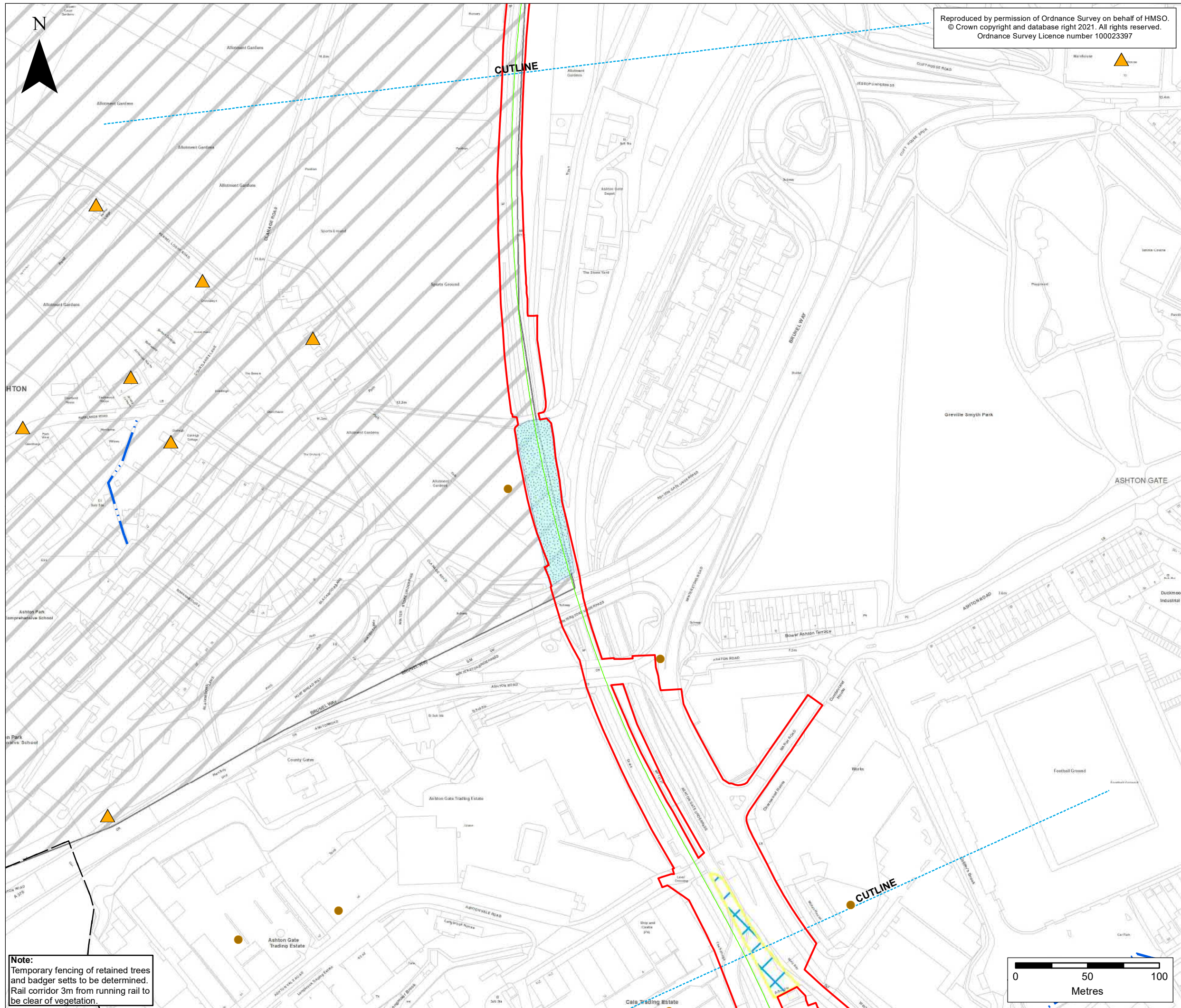
Project: Portishead Branch Line (MetroWest Phase 1)

Drawing: Environmental Master Plan (Sheet 20 of 23)
 APFP Regulation 5(2)(o)

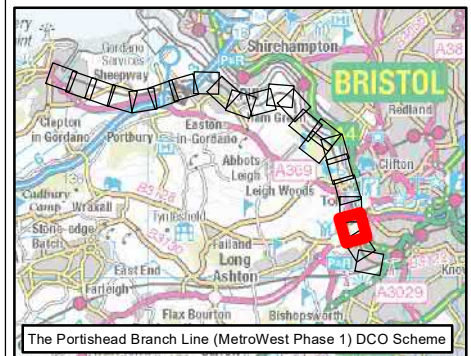
Drawn By: Martin Costello **Date:** 11/03/2021
Checked By: Clare Williams **Date:** 11/03/2021
Approved By: Carolyn Francis **Date:** 11/03/2021

Drawing No.: 674946 -001-024-A **Revision:** ES-C

Drawing Scale: 1:2,500 @ A3



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KEY

- Order Limits
- Local Authority Boundary
- The Associated Development Works
- Temporary construction compounds
- Reptile Displacement Areas
- Footpath
- Conservation Areas (CA)
- ▲ Listed Building
- Monument Point (Non-designated)

ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
ES-B	JG	CW	CF	17/09/2020	Second draft
ES-A	JG	CW	CF	21/07/2020	First draft
Rev	By	Chkd	Apprvd	Date	Description

Client
 travelwest+
Bath & North East Somerset, Bristol, North Somerset and South Gloucestershire Councils working together to improve your local transport

CH2M HILL
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 www.ch2m.com

Project: **Portishead Branch Line (MetroWest Phase 1)**

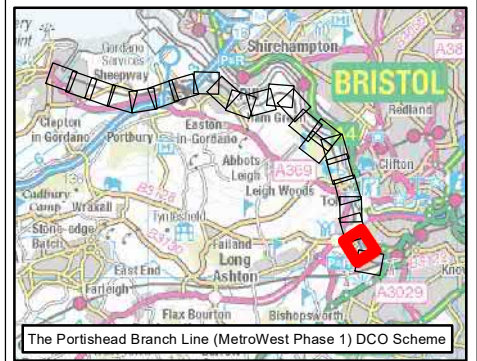
Drawing: **Environmental Master Plan (Sheet 21 of 23) APFP Regulation 5(2)(o)**

Drawn By: Martin Costello Date: 11/03/2021
 Checked By: Clare Williams Date: 11/03/2021
 Approved By: Carolyn Francis Date: 11/03/2021

Drawing No.: **674946 -001-024-A** Revision **ES-C**
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Note:
 Temporary fencing of retained trees and badger sets to be determined. Rail corridor 3m from running rail to be clear of vegetation.

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KEY

- Order Limits
- Local Authority Boundary
- Portishead Branch Line**
- The Associated Development Works
- Temporary construction compounds
- Other Works**
- Network Rail Permitted Development Rights
- ▲ Reptile/GCN Hibernacula
- Reptile Displacement Areas
- Public Rights of Way**
- Footpath
- Monument Point (Non-designated)

Rev	By	Chkd	Apprvd	Date	Description
ES-C	MPC	CW	CF	11/03/2021	Revised Order Limits
ES-B	JG	CW	CF	17/09/2020	Second draft
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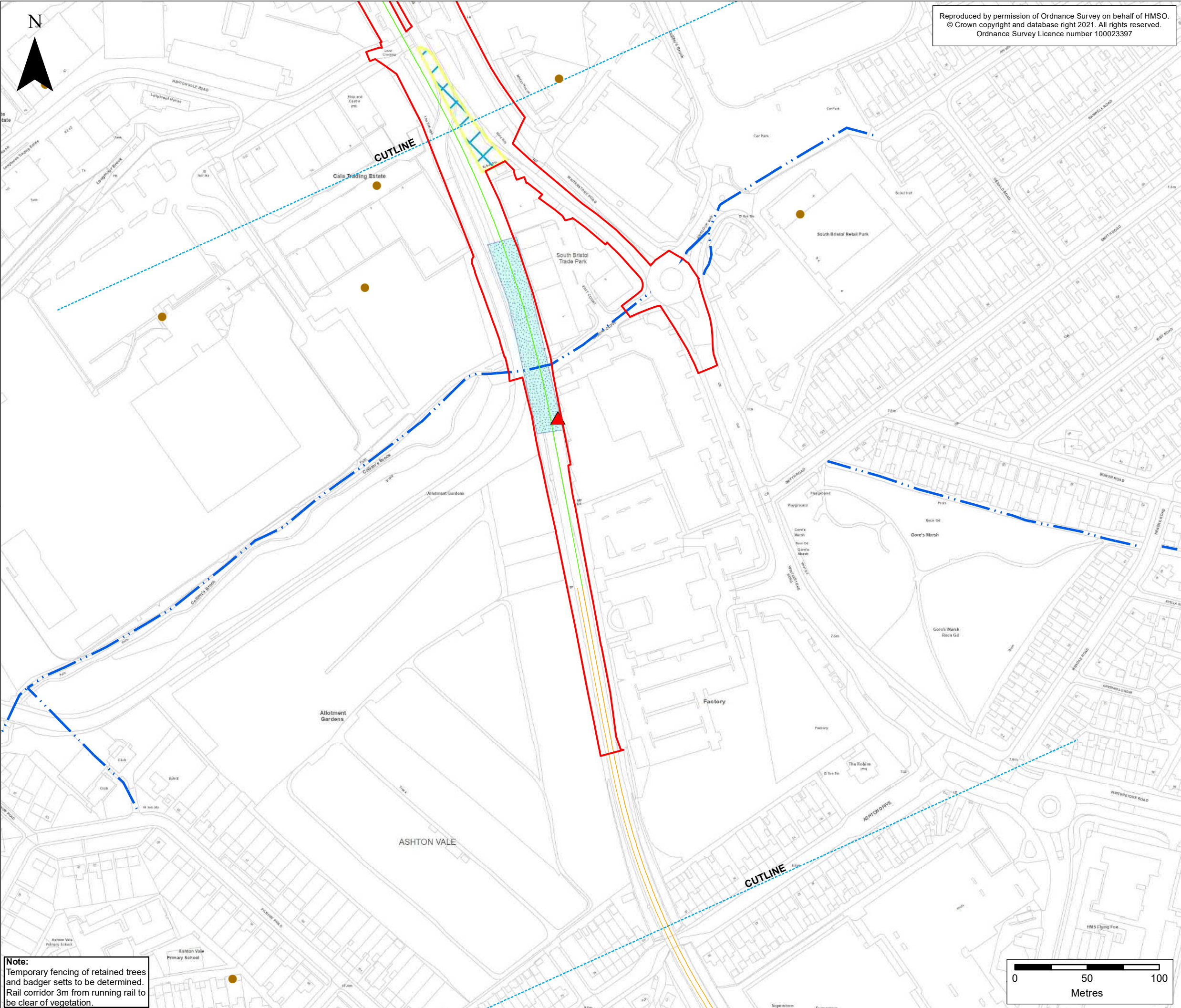
Project : Portishead Branch Line (MetroWest Phase 1)

Drawing : Environmental Master Plan (Sheet 22 of 23)
 APFP Regulation 5(2)(o)

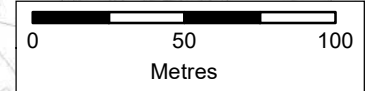
Drawn By : Martin Costello **Date:** 11/03/2021
Checked By : Clare Williams **Date:** 11/03/2021
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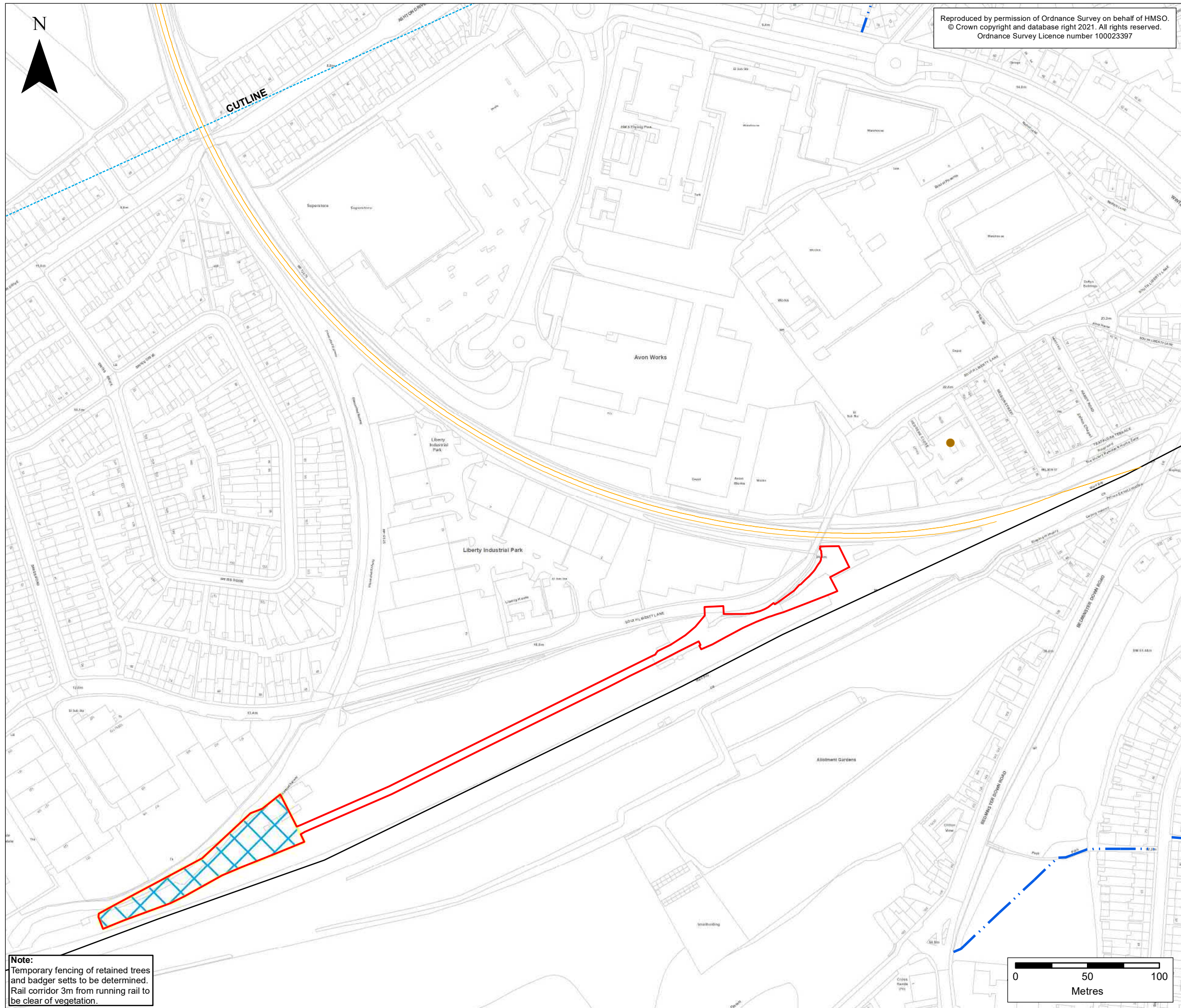
Drawing No. : 674946 -001-024-A **Revision** ES-C

Drawing Scale : 1:2,500 @ A3

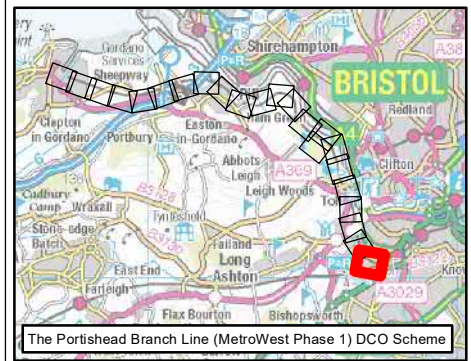


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Rev	By	Chkd	Apprvd	Date	Description

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Project : **Portishead Branch Line (MetroWest Phase 1)**

Drawing : **Environmental Master Plan (Sheet 23 of 23)**
APFP Regulation 5(2)(o)

Drawn By : Martin Costello Date: 11/03/2021
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