



MetroWest+

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

6.25, Environmental Statement, Volume 4, Appendix 9.1, Extended Phase 1 Habitat Survey Part 2 of 2

**The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(a)
Planning Act 2008**

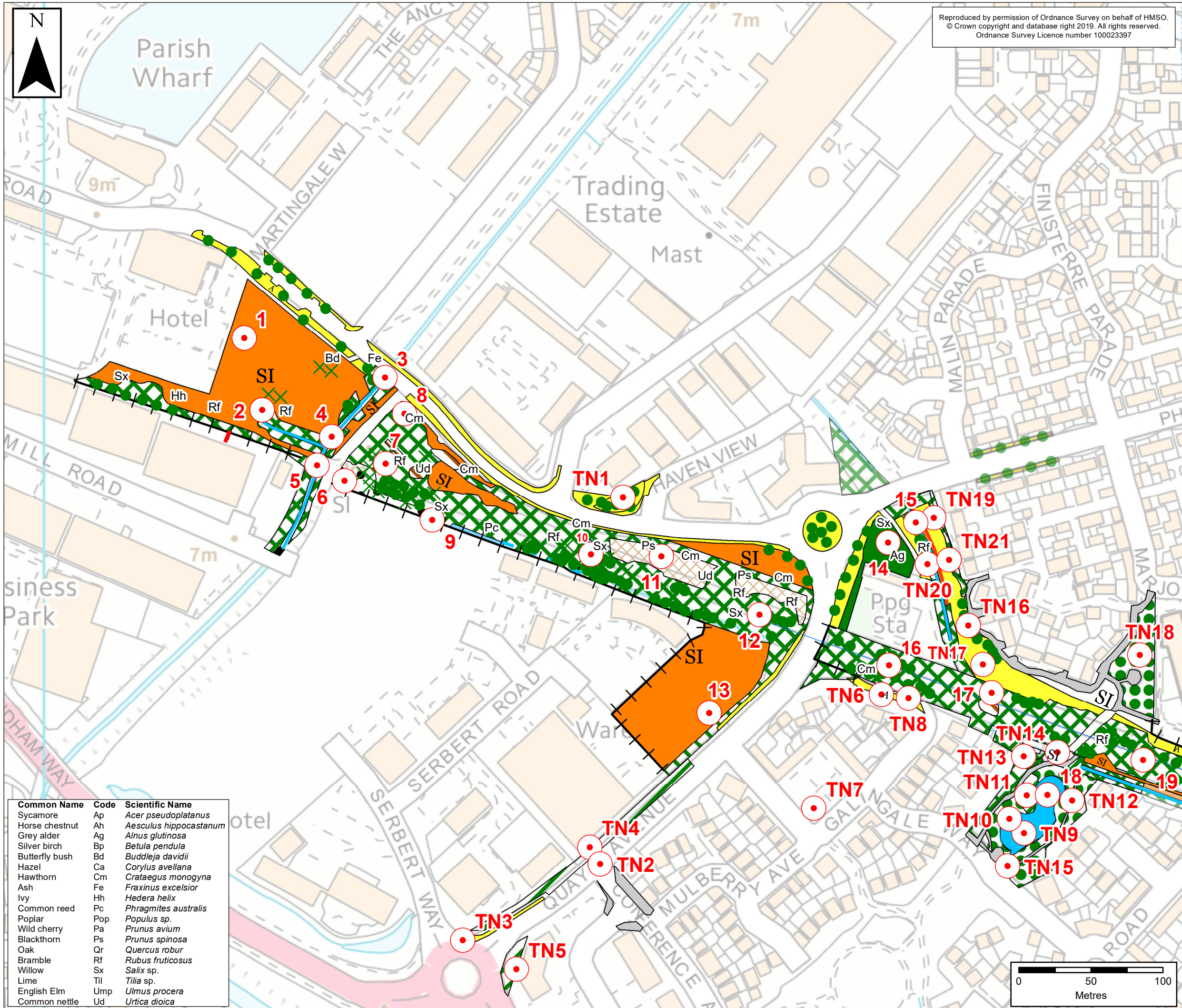
Author: CH2M

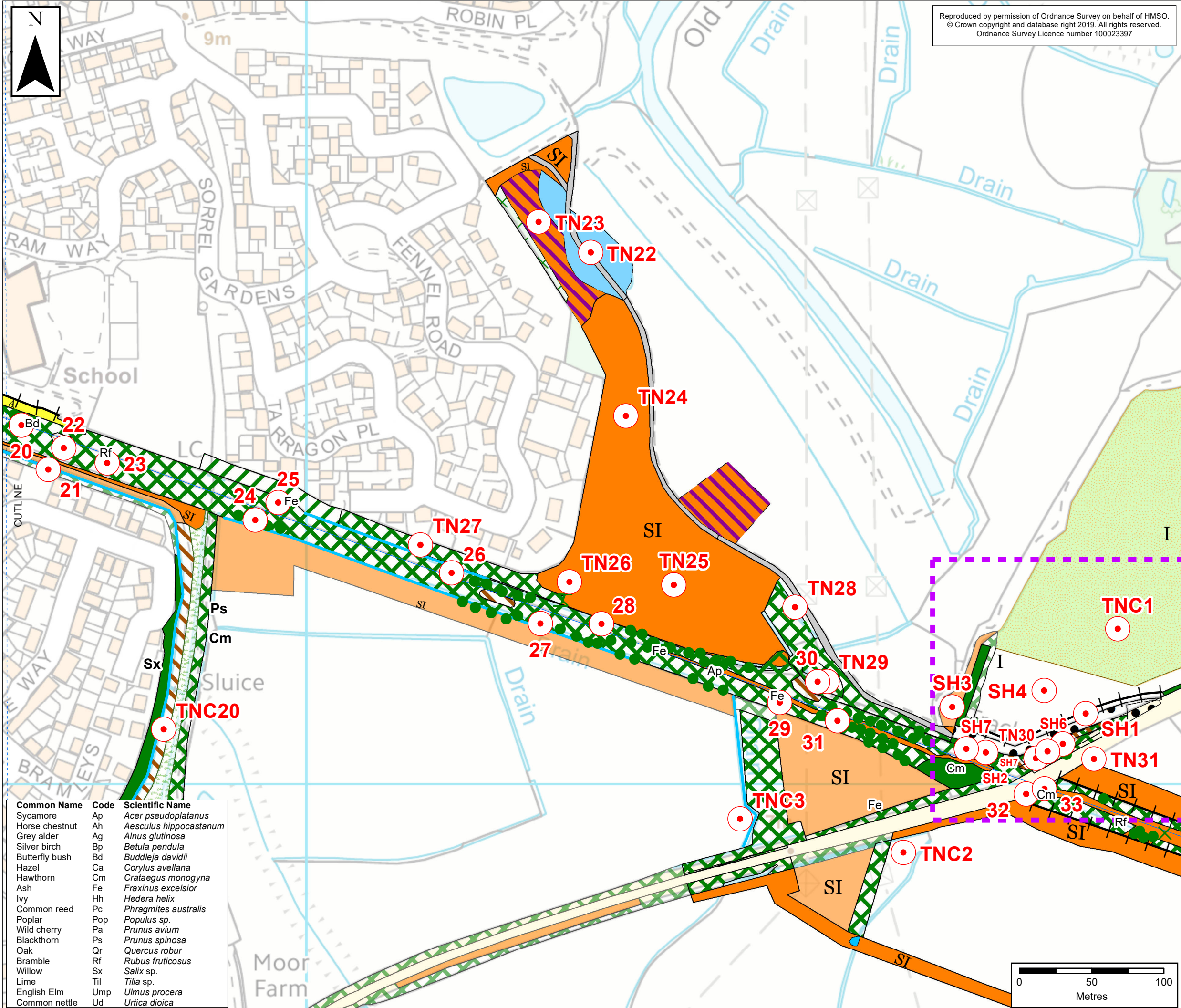
Date: November 2019



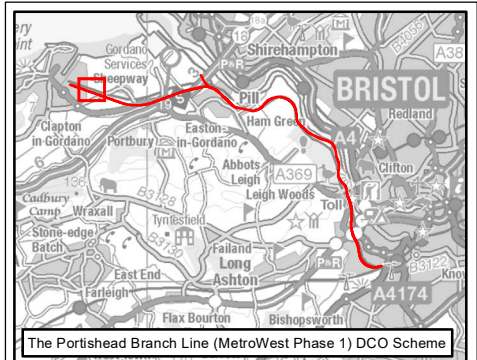
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The Portishead Branch Line (MetroWest Phase 1) DCO Scheme

KEY

Portishead Branch Line
The Nationally Significant Infrastructure Project (NSIP) Works

- Phase 1 Habitats**
- A2.2, Scrub - scattered
 - A3.1, Broadleaved Parkland/scattered trees
 - G2, Running water
 - J2.2.1, Defunct hedge - native species-rich
 - J2.2.2, Defunct hedge - species-poor
 - J2.4, Fence
 - A1.1.1, Broadleaved woodland - semi-natural
 - A1.1.2, Broadleaved woodland - plantation
 - A2.1, Scrub - dense/continuous
 - A2.2, Scrub - scattered
 - B2.2, Neutral grassland - semi-improved
 - B4, Improved grassland
 - B5, Marsh/marshy grassland
 - B6, Poor semi-improved grassland
 - C3.1, Other tall herb and fern - ruderal
 - F1, Swamp
 - G1, Standing water
 - J1.2, Cultivated/disturbed land - amenity grassland
 - J1.4, Introduced shrub
 - J4, Bare ground
 - J5, Other habitat

- Aerial Assessment Habitats**
- Scrub - dense/continuous
 - Neutral grassland - semi-improved
 - Improved grassland
 - Poor semi-improved grassland

Other
Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
Rev	By	Chkd	Apprvd	Date	Description

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www.ch2m.com

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

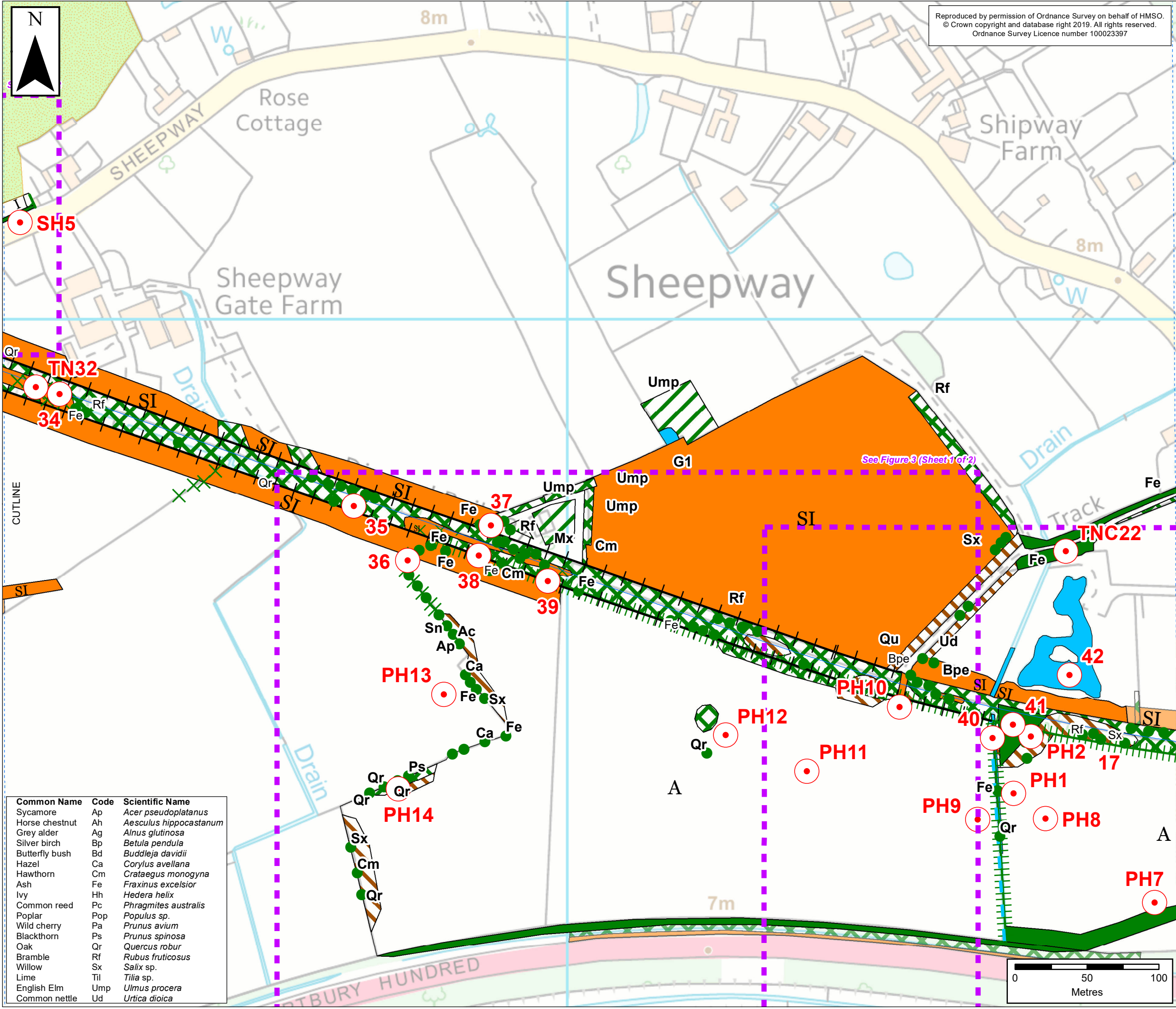
Drawing : **Figure 1 Phase 1 and Aerial Assessment Habitat Mapping Sheet 2 of 22**
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019
Checked By : Debbie Mackenzie Date: 28/10/2019
Approved By : Carolyn Francis Date: 28/10/2019

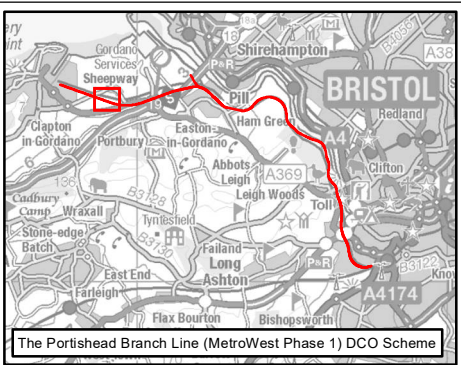
Drawing No. : **674946-001-002-A** Revision **ES-A**

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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The Portishead Branch Line (MetroWest Phase 1) DCO Scheme

KEY

Portishead Branch Line
The Nationally Significant Infrastructure Project (NSIP) Works

- Phase 1 Habitats**
- A2.2, Scrub - scattered
 - A3.1, Broadleaved Parkland/scattered trees
 - J2.1.2, Intact hedge - species-poor
 - J2.3.2, Hedge with trees - species-poor
 - J2.4, Fence
 - J2.6, Dry ditch
 - A1.1.1, Broadleaved woodland - semi-natural
 - A1.1.2, Broadleaved woodland - plantation
 - A2.1, Scrub - dense/continuous
 - A2.2, Scrub - scattered
 - B2.2, Neutral grassland - semi-improved
 - B4, Improved grassland
 - C3.1, Other tall herb and fern - ruderal
 - G1, Standing water
 - G2, Running water
 - J1.1, Cultivated/disturbed land - arable

- Aerial Assessment Habitats**
- Scrub - dense/continuous
 - Neutral grassland - semi-improved
 - Improved grassland

Other
Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
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Burderop Park, Swindon, SN4 0QD
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Project : Portishead Branch Line (MetroWest Phase 1)

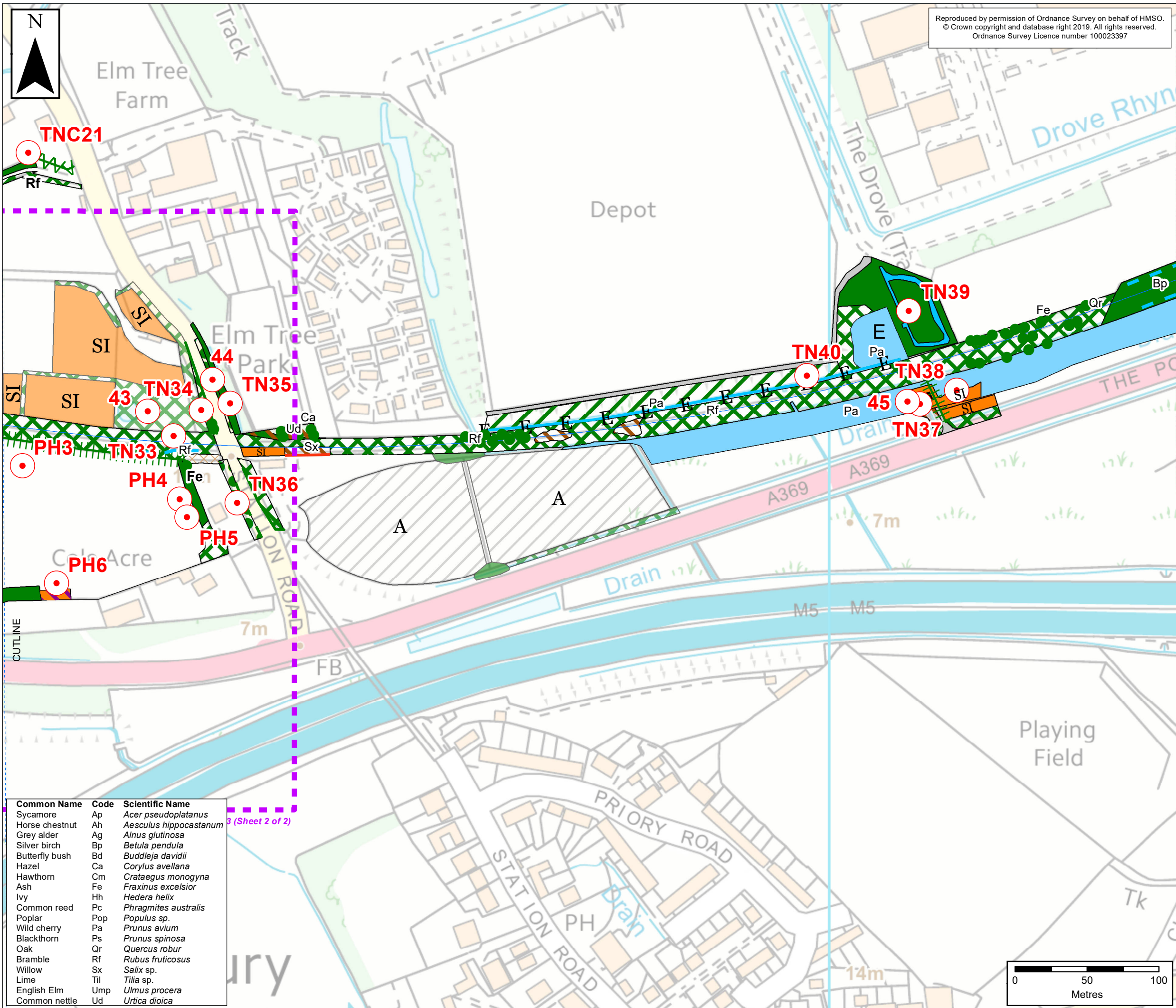
Drawing : Figure 1 Phase 1 and Aerial Assessment Habitat Mapping
Sheet 3 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson **Date:** 28/10/2019
Checked By : Debbie Mackenzie **Date:** 28/10/2019
Approved By : Carolyn Francis **Date:** 28/10/2019

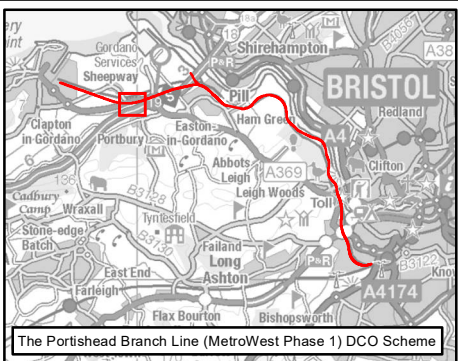
Drawing No. : 674946-001-002-A **Revision** ES-A

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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KEY

Portishead Branch Line

The Nationally Significant Infrastructure
Project (NSIP) Works

Phase 1 Habitats

- A3.1, Broadleaved Parkland/scattered trees
- G2.1, Running water - eutrophic
- J2.1.1, Intact hedge - native species-rich
- J2.1.2, Intact hedge - species-poor
- J2.2.2, Defunct hedge - species-poor
- J2.3.2, Hedge with trees - species-poor
- J2.5, Wall
- J2.6, Dry ditch
- A1.1.1, Broadleaved woodland - semi-natural
- A1.1.2, Broadleaved woodland - plantation
- A2.1, Scrub - dense/continuous
- A3.1, Broadleaved Parkland/scattered trees
- B2.2, Neutral grassland - semi-improved
- B5, Marsh/marshy grassland
- C3.1, Other tall herb and fern - ruderal
- F1, Swamp
- G1.1, Standing water - eutrophic
- J1.1, Cultivated/disturbed land - arable
- J1.4, Introduced shrub
- J3.6, Buildings
- J5, Other habitat

Aerial Assessment Habitats

- Broadleaved woodland - semi-natural
- Scrub - dense/continuous
- Neutral grassland - semi-improved
- Cultivated/disturbed land - arable

Other

- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
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Tel: +44 (0)1793 812479 Fax: +44
(0)1793 812089
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Project : Portishead Branch Line
(MetroWest Phase 1)

Drawing : Figure 1 Phase 1 and Aerial
Assessment Habitat Mapping
Sheet 4 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019

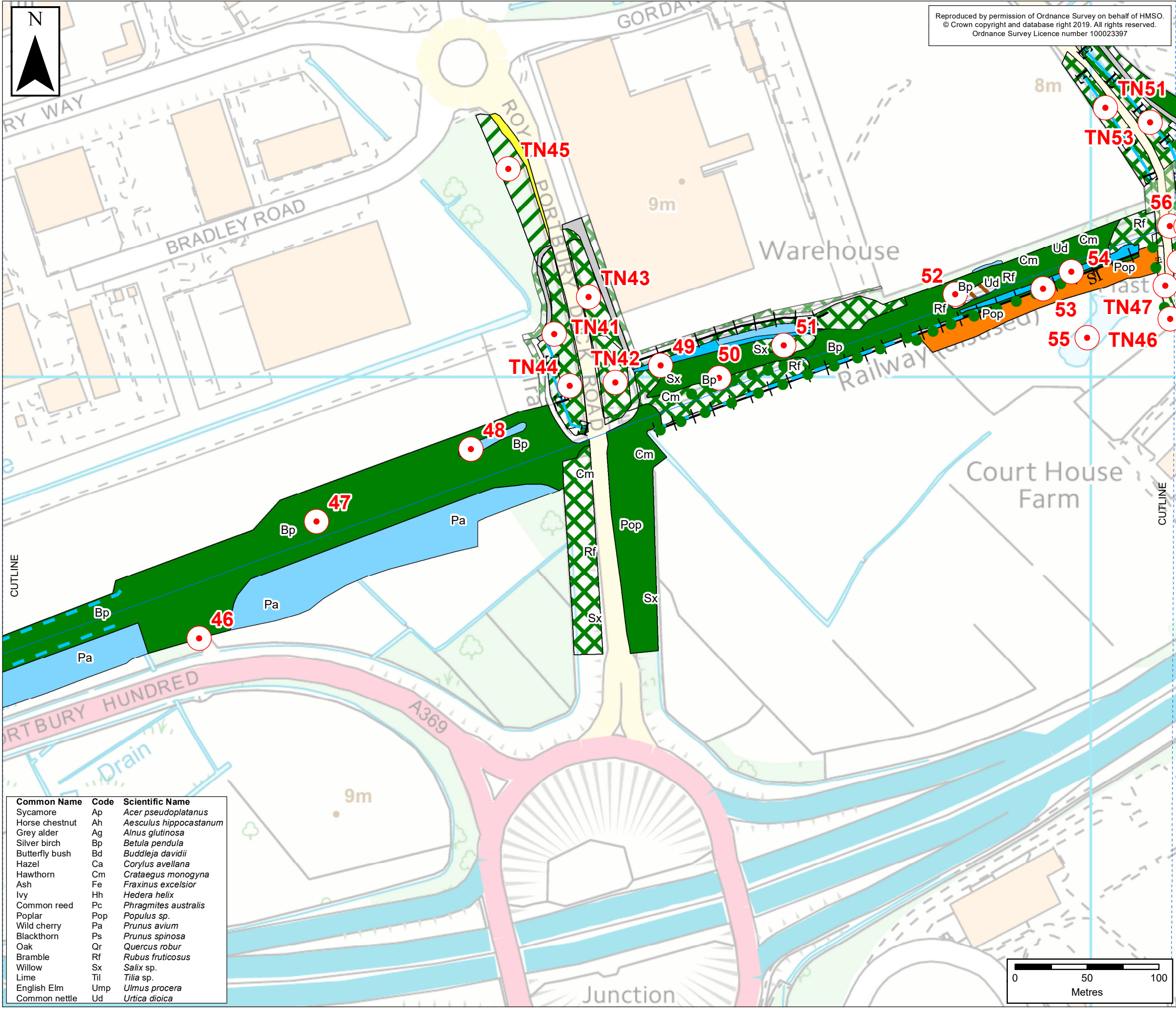
Checked By : Debbie Mackenzie Date: 28/10/2019

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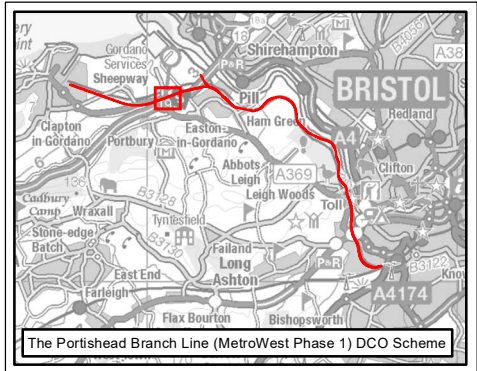
Drawing No. : 674946-001-002-A Revision
ES-A

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
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Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
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Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
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KEY

Portishead Branch Line

The Nationally Significant Infrastructure Project (NSIP) Works

Phase 1 Habitats

- A3.1, Broadleaved Parkland/scattered trees
- G2.1, Running water - eutrophic
- J2.2.2, Defunct hedge - species-poor
- J2.4, Fence
- J2.6, Dry ditch
- A1.1.1, Broadleaved woodland - semi-natural
- A1.1.2, Broadleaved woodland - plantation
- A2.1, Scrub - dense/continuous
- B2.2, Neutral grassland - semi-improved
- B6, Poor semi-improved grassland
- C3.1, Other tall herb and fern - ruderal
- F1, Swamp
- G1, Standing water
- I2.4, Refuse-tip
- J1.2, Cultivated/disturbed land - amenity grassland
- J5, Other habitat

Aerial Assessment Habitats

- Scrub - dense/continuous

Other

- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
Rev	By	Chkd	Apprvd	Date	Description

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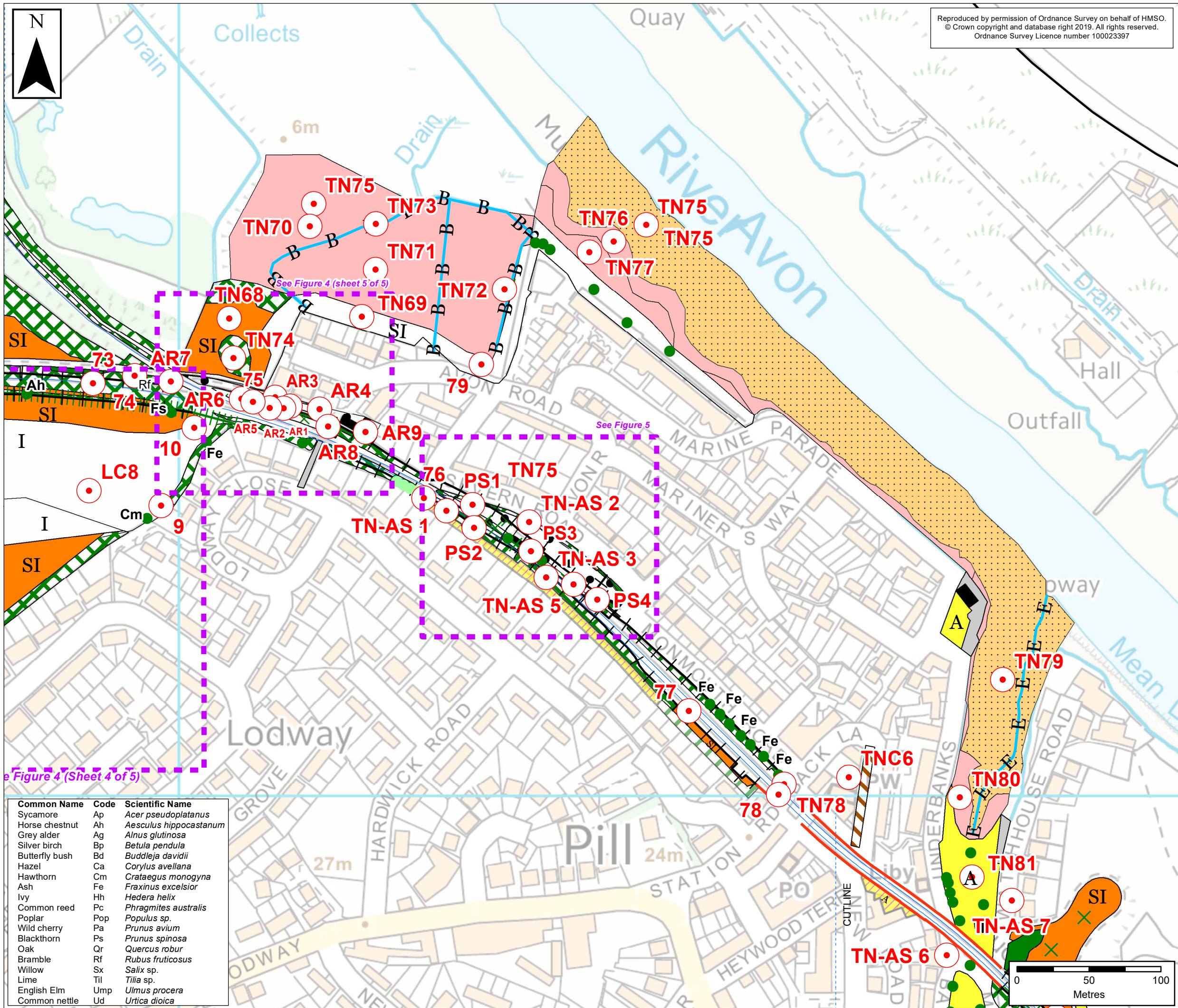
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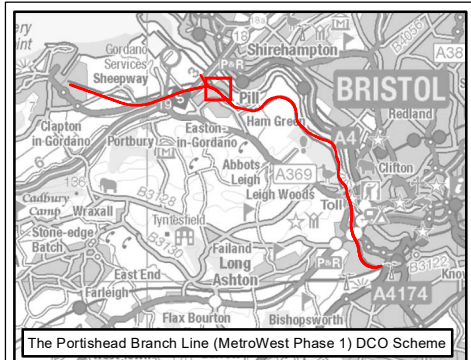
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Project :	Portishead Branch Line (MetroWest Phase 1)		
Drawing :	Figure 1 Phase 1 and Aerial Assessment Habitat Mapping Sheet 5 of 22 <i>APFP Regulation 5(2)(a)</i>		
Drawn By :	Andy Collinson	Date:	28/10/2019
Checked By :	Debbie Mackenzie	Date:	28/10/2019
Approved By :	Carolyn Francis	Date:	28/10/2019
Drawing No. :	674946-001-002-A		Revision ES-A
Drawing Scale :	1:2,500		

Common Name	Code	Scientific Name
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Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
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Common nettle	Ud	<i>Urtica dioica</i>



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- KEY**
- Existing Railway Line
 - Portishead Branch Line**
 - The Nationally Significant Infrastructure Project (NSIP) Works
 - The Associated Development Works
- Phase 1 Habitats**
- A2.2, Scrub - scattered
 - A3.1, Broadleaved Parkland/scattered trees
 - A3.2, Coniferous Parkland/scattered trees
 - G2.1, Running water - eutrophic
 - G2.6, Running water - brackish
 - J2.2.2, Defunct hedge - species-poor
 - J2.3.2, Hedge with trees - species-poor
 - J2.4, Fence
 - J2.5, Wall
 - A1.1.1, Broadleaved woodland - semi-natural
 - A2.1, Scrub - dense/continuous
 - A2.2, Scrub - scattered
 - B2.2, Neutral grassland - semi-improved
 - B4, Improved grassland
 - B6, Poor semi-improved grassland
 - C3.1, Other tall herb and fern - ruderal
 - H1.1, Intertidal - mud/sand
 - H2.6, Saltmarsh - dense/continuous
 - J1.2, Cultivated/disturbed land - amenity grassland
 - J3.6, Buildings
 - J4, Bare ground
 - J5, Other habitat
- Aerial Assessment Habitats**
- Scrub - dense/continuous
 - Cultivated/disturbed land - amenity grassland
- Other**
- Target Note

Rev	By	Chkd	Apprvd	Date	Description
ES-A	AC	DM	CF	28/10/2019	First Issue

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Project : Portishead Branch Line (MetroWest Phase 1)

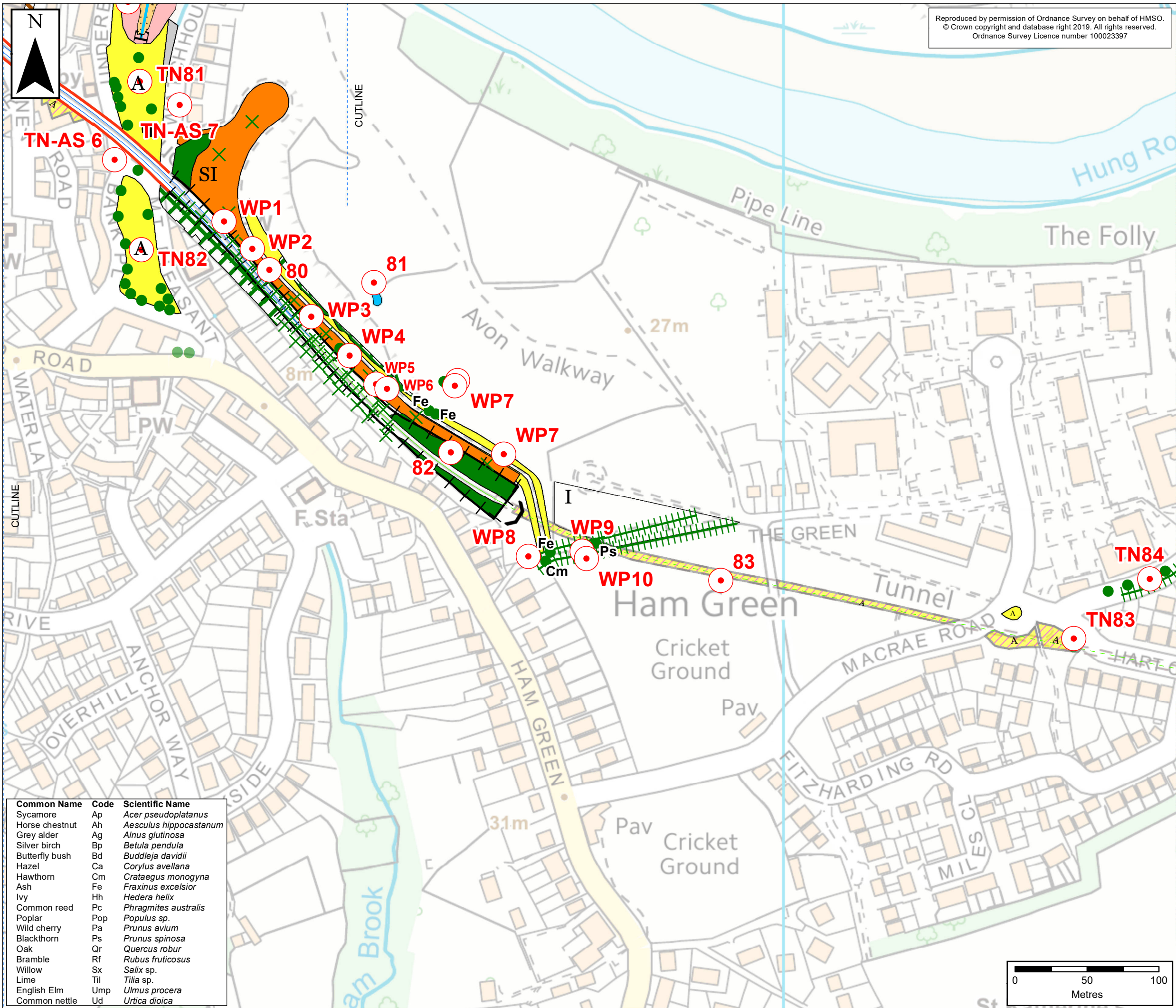
Drawing : Figure 1 Phase 1 and Aerial Assessment Habitat Mapping Sheet 7 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson **Date:** 28/10/2019
Checked By : Debbie Mackenzie **Date:** 28/10/2019
Approved By : Carolyn Francis **Date:** 28/10/2019

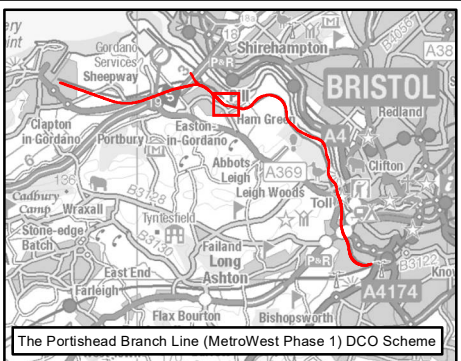
Drawing No. : 674946-001-002-A **Revision** ES-A

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
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Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
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KEY

Portishead Branch Line

- The Nationally Significant Infrastructure Project (NSIP) Works
- The Associated Development Works
- Section in Tunnel

Phase 1 Habitats

- A2.2, Scrub - scattered
- A3.1, Broadleaved Parkland/scattered trees
- A3.1, Broadleaved Parkland/scattered trees
- G2.1, Running water - eutrophic
- J2.1.2, Intact hedge - species-poor
- J2.3.2, Hedge with trees - species-poor
- J2.4, Fence
- J2.5, Wall
- A1.1.1, Broadleaved woodland - semi-natural
- A2.1, Scrub - dense/continuous
- B2.2, Neutral grassland - semi-improved
- B4, Improved grassland
- C3.1, Other tall herb and fern - ruderal
- G1, Standing water
- H1.1, Intertidal - mud/sand
- H2.6, Saltmarsh - dense/continuous
- J1.2, Cultivated/disturbed land - amenity grassland
- J3.6, Buildings
- J5, Other habitat

Aerial Assessment Habitats

- Broadleaved Parkland/scattered trees
- Cultivated/disturbed land - amenity grassland

Other

- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
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Geospatial
Burderop Park, Swindon, SN4 0QD
Tel: +44 (0)1793 812479 Fax: +44 (0)1793 812089
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Project : Portishead Branch Line (MetroWest Phase 1)

Drawing : Figure 1 Phase 1 and Aerial Assessment Habitat Mapping Sheet 8 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019

Checked By : Debbie Mackenzie Date: 28/10/2019

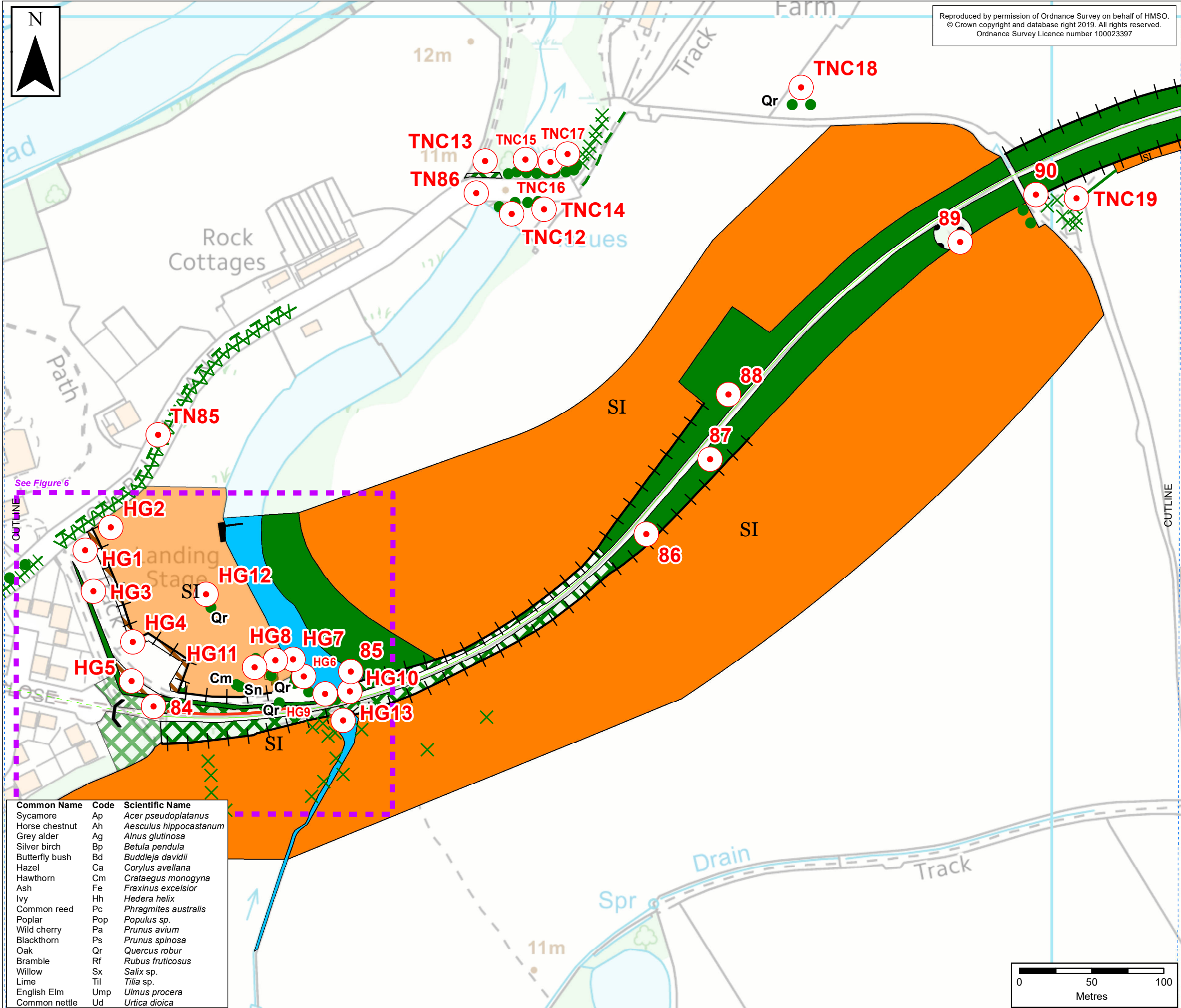
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Drawing No. : 674946-001-002-A

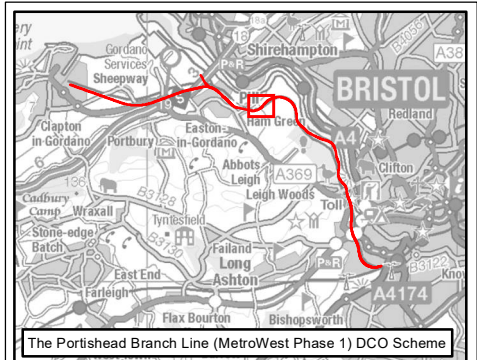
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Common Name	Code	Scientific Name
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Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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The Portishead Branch Line (MetroWest Phase 1) DCO Scheme

KEY

Portishead Branch Line

- The Associated Development Works
- Section in Tunnel

Phase 1 Habitats

- A2.2, Scrub - scattered
- A3.1, Broadleaved Parkland/scattered trees
- A3.1, Broadleaved Parkland/scattered trees
- J2.1.1, Intact hedge - native species-rich
- J2.1.2, Intact hedge - species-poor
- J2.2.2, Defunct hedge - species-poor
- J2.3.2, Hedge with trees - species-poor
- J2.4, Fence
- J2.5, Wall
- A1.1.1, Broadleaved woodland - semi-natural
- A2.1, Scrub - dense/continuous
- B2.2, Neutral grassland - semi-improved
- C3.1, Other tall herb and fern - ruderal
- G1, Standing water
- J3.6, Buildings
- J4, Bare ground

Aerial Assessment Habitats

- Scrub - dense/continuous
- Neutral grassland - semi-improved

Other

- Target Note

Rev	By	Chkd	Apprvd	Date	Description
ES-A	AC	DM	CF	28/10/2019	First Issue

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Project : Portishead Branch Line
(MetroWest Phase 1)

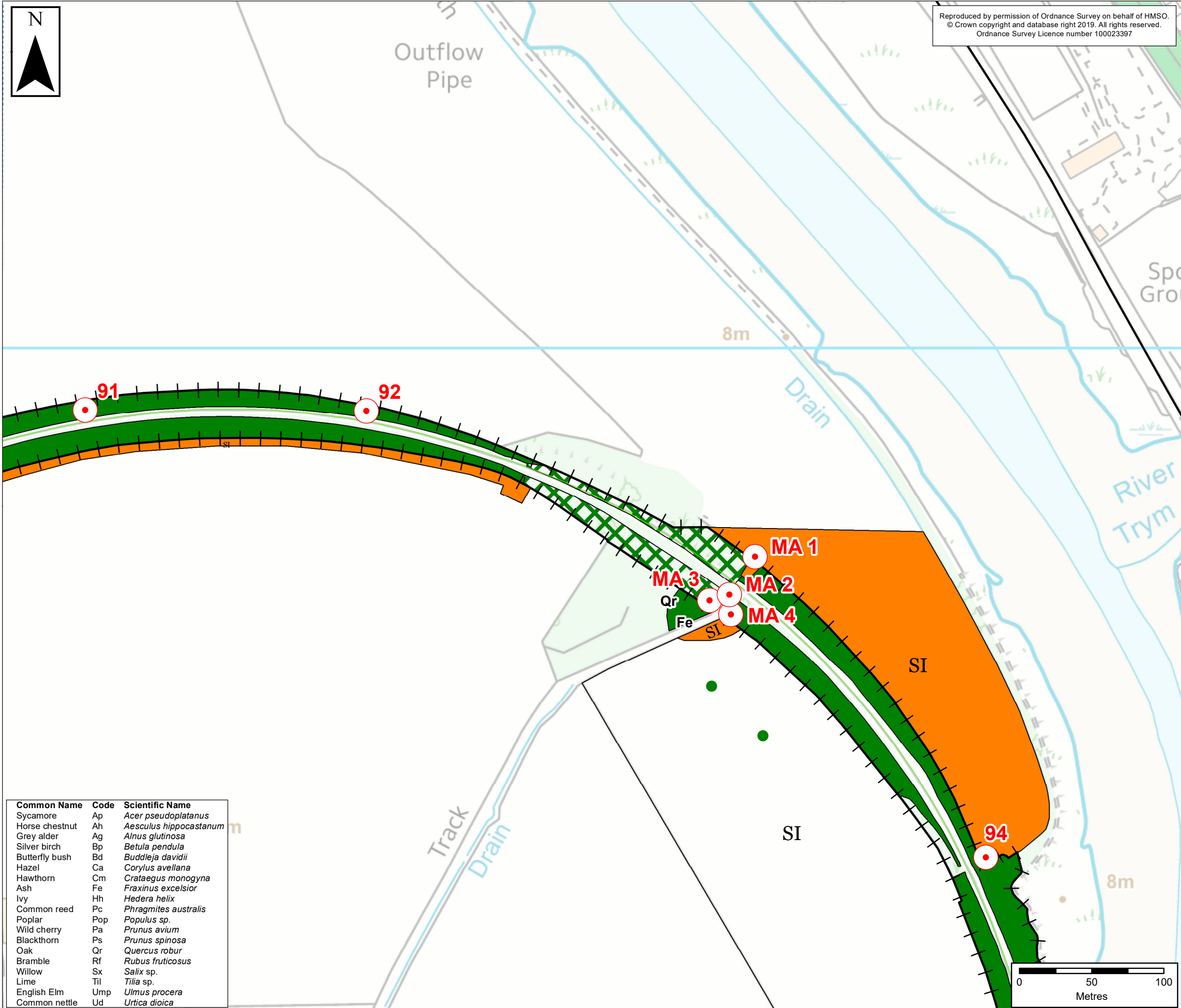
Drawing : Figure 1 Phase 1 and Aerial
Assessment Habitat Mapping
Sheet 9 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson **Date:** 28/10/2019
Checked By : Debbie Mackenzie **Date:** 28/10/2019
Approved By : Carolyn Francis **Date:** 28/10/2019

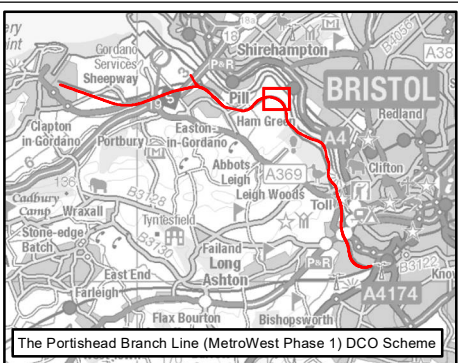
Drawing No. : 674946-001-002-A **Revision**
ES-A

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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KEY

- Existing Railway Line
- The Associated Development Works
- Phase 1 Habitats**
 - A3.1, Broadleaved Parkland/scattered trees
 - J2.4, Fence
 - A1.1.1, Broadleaved woodland - semi-natural
 - A2.1, Scrub - dense/continuous
 - B2.2, Neutral grassland - semi-improved
 - B6, Poor semi-improved grassland

Aerial Assessment Habitats

Other

- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
Rev	By	Chkd	Apprvd	Date	Description

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Project : Portishead Branch Line
(MetroWest Phase 1)

Drawing : Figure 1 Phase 1 and Aerial
Assessment Habitat Mapping
Sheet 10 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019

Checked By : Debbie Mackenzie Date: 28/10/2019

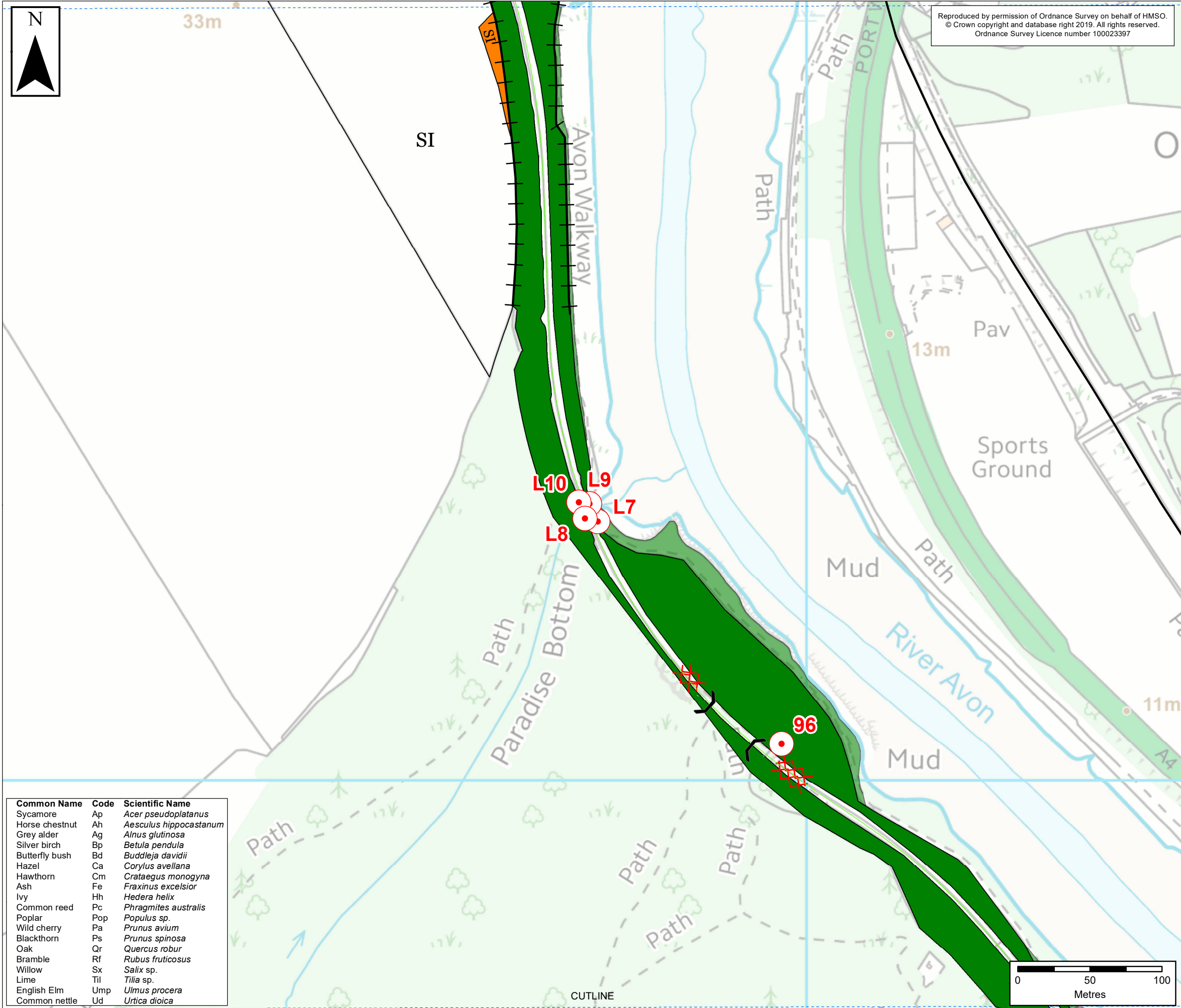
Approved By : Carolyn Francis Date: 28/10/2019

Drawing No. :
674946-001-002-A

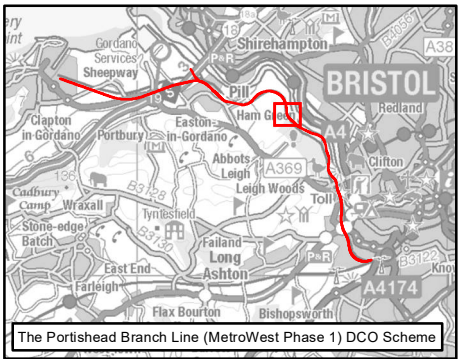
Revision
ES-A

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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KEY

- Existing Railway Line
- Portishead Branch Line**
- The Associated Development Works
- 11.1.2, Inland cliff - basic
- J2.4, Fence
- A1.1.1, Broadleaved woodland - semi-natural
- B2.2, Neutral grassland - semi-improved
- B6, Poor semi-improved grassland

Aerial Assessment Habitats

- Broadleaved woodland - semi-natural

Other

- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
Rev	By	Chkd	Apprvd	Date	Description

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Project : Portishead Branch Line
(MetroWest Phase 1)

Drawing : Figure 1 Phase 1 and Aerial
Assessment Habitat Mapping
Sheet 11 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson **Date:** 28/10/2019

Checked By : Debbie Mackenzie **Date:** 28/10/2019

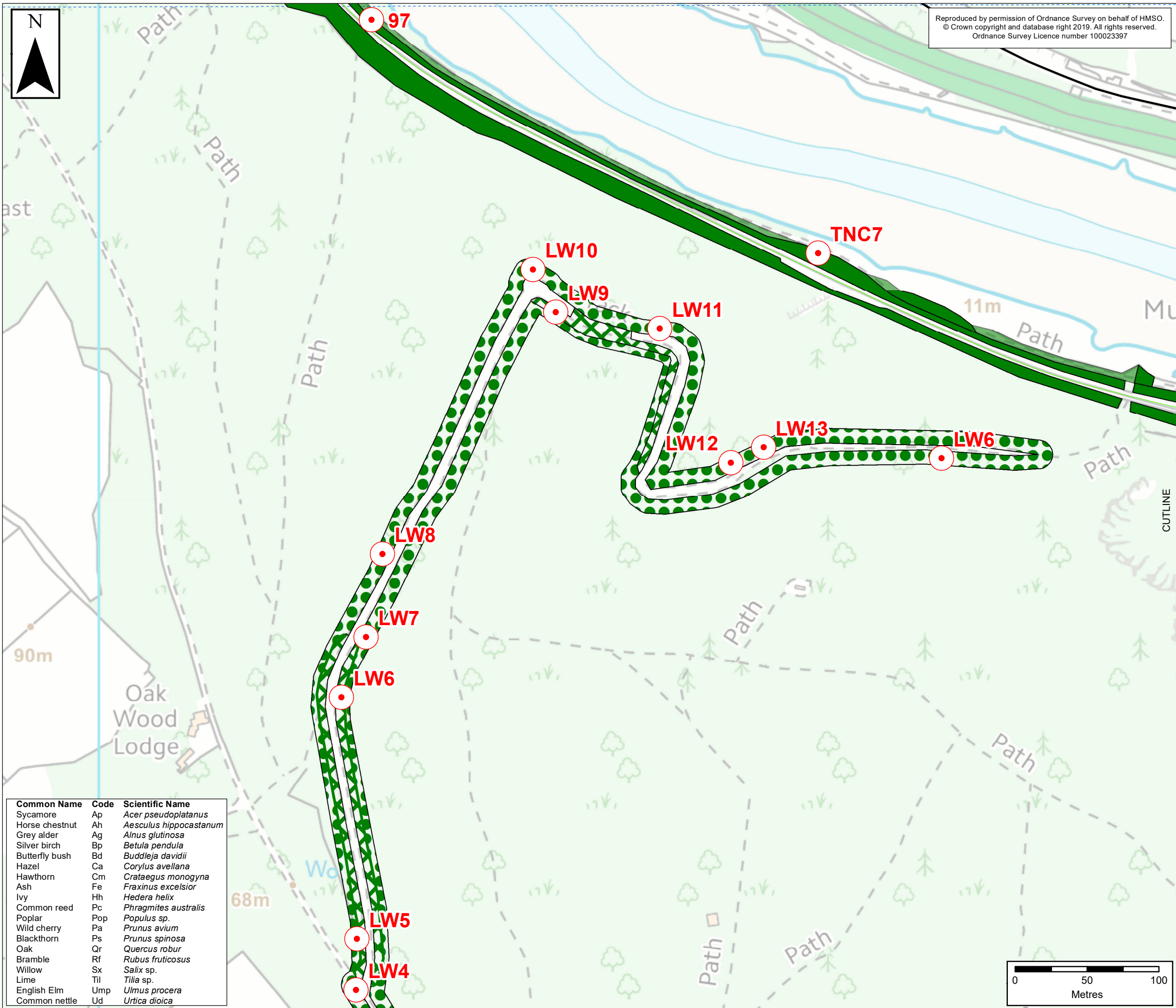
Approved By : Carolyn Francis **Date:** 28/10/2019

Drawing No. :
674946-001-002-A

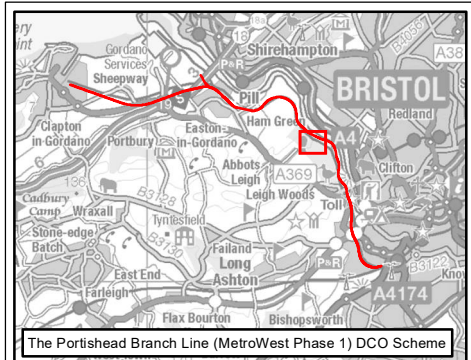
Revision
ES-A

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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KEY

- Existing Railway Line
- The Associated Development Works
- J2.1.2, Intact hedge - species-poor
- A1.1.1, Broadleaved woodland - semi-natural
- A2.1, Scrub - dense/continuous
- A3.1, Broadleaved Parkland/scattered trees

Aerial Assessment Habitats

- Broadleaved woodland - semi-natural

Other

- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
Rev	By	Chkd	Apprvd	Date	Description

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(MetroWest Phase 1)

Drawing : Figure 1 Phase 1 and Aerial
Assessment Habitat Mapping
Sheet 12 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019

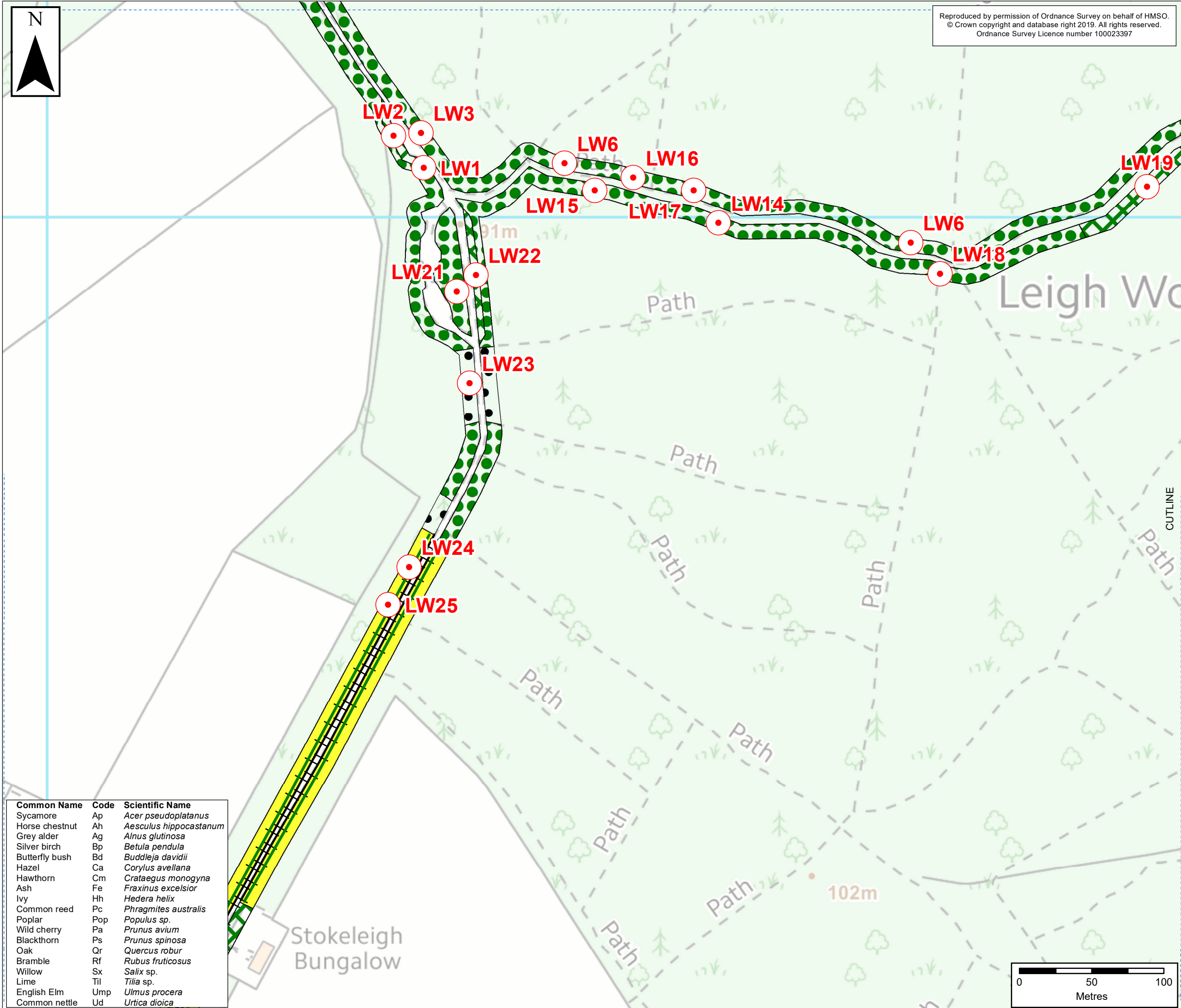
Checked By : Debbie Mackenzie Date: 28/10/2019

Approved By : Carolyn Francis Date: 28/10/2019

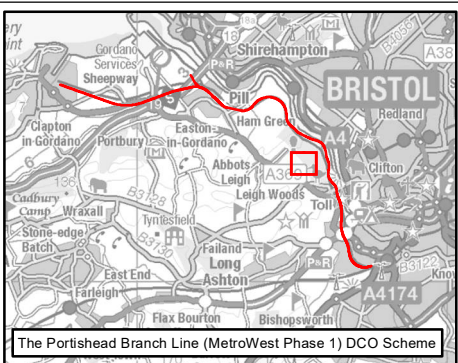
Drawing No. : 674946-001-002-A
Revision : ES-A

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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KEY

	J2.1.2, Intact hedge - species-poor
	J2.4, Fence
	A2.1, Scrub - dense/continuous
	A3.1, Broadleaved Parkland/scattered trees
	J1.2, Cultivated/disturbed land - amenity grassland
	J4, Bare ground

Aerial Assessment Habitats

Other

- Target Note

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
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Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>

ES-A	AC	DM	CF	28/10/2019	First Issue
Rev	By	Chkd	Apprvd	Date	Description

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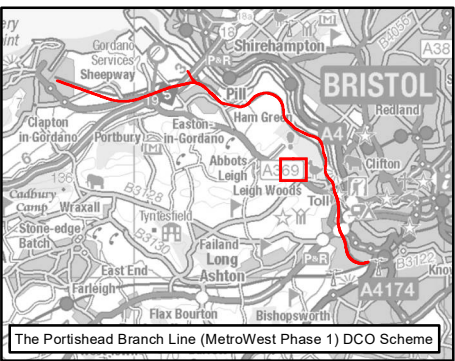
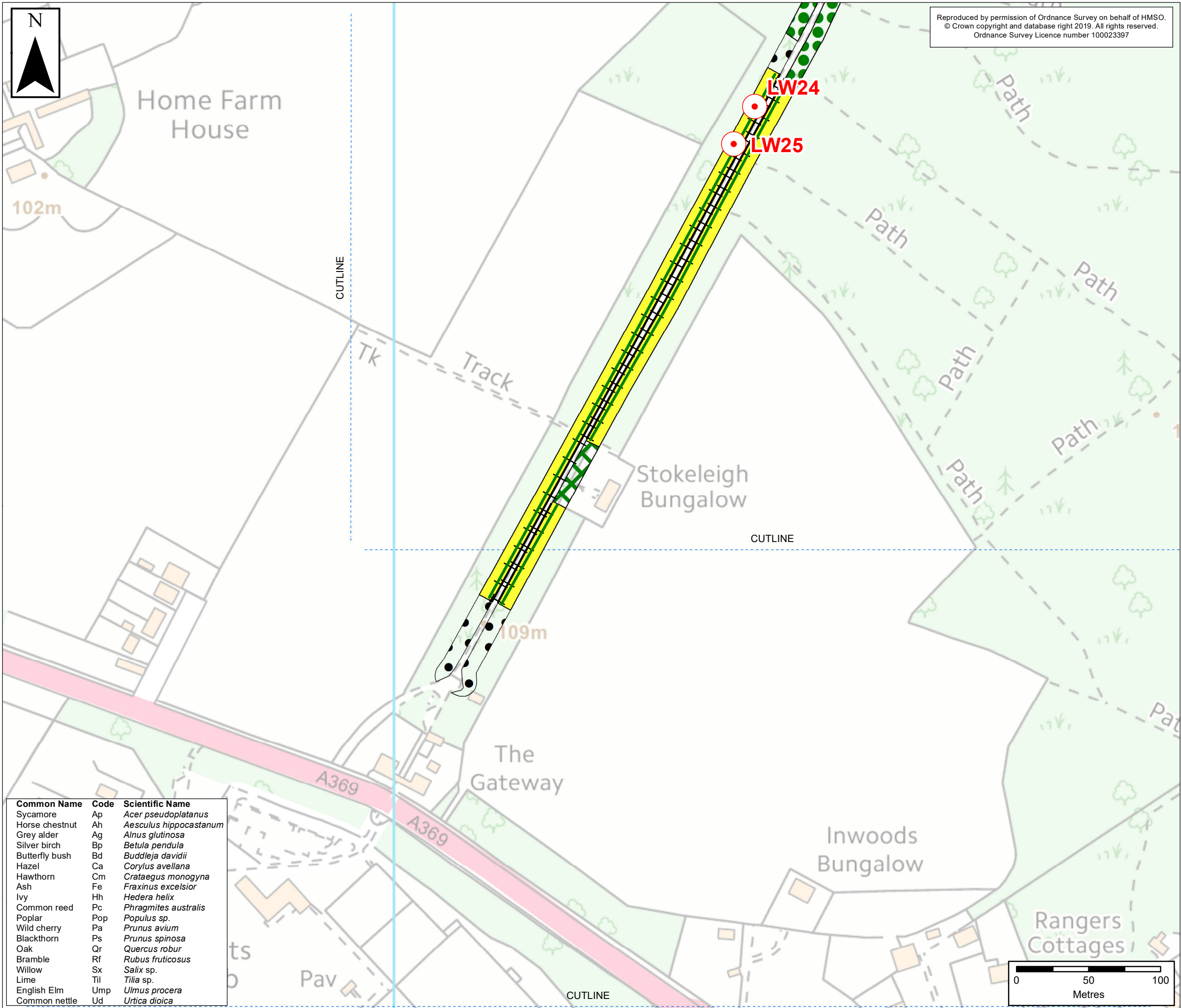
Project : Portishead Branch Line (MetroWest Phase 1)

Drawing : Figure 1 Phase 1 and Aerial Assessment Habitat Mapping Sheet 13 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson **Date:** 28/10/2019
Checked By : Debbie Mackenzie **Date:** 28/10/2019
Approved By : Carolyn Francis **Date:** 28/10/2019

Drawing No. : 674946-001-002-A **Revision** ES-A

Drawing Scale : 1:2,500



KEY

- J2.1.2, Intact hedge - species-poor
- J2.4, Fence
- A2.1, Scrub - dense/continuous
- A3.1, Broadleaved Parkland/scattered trees
- J1.2, Cultivated/disturbed land - amenity grassland
- J4, Bare ground

Aerial Assessment Habitats

Other

- Target Note

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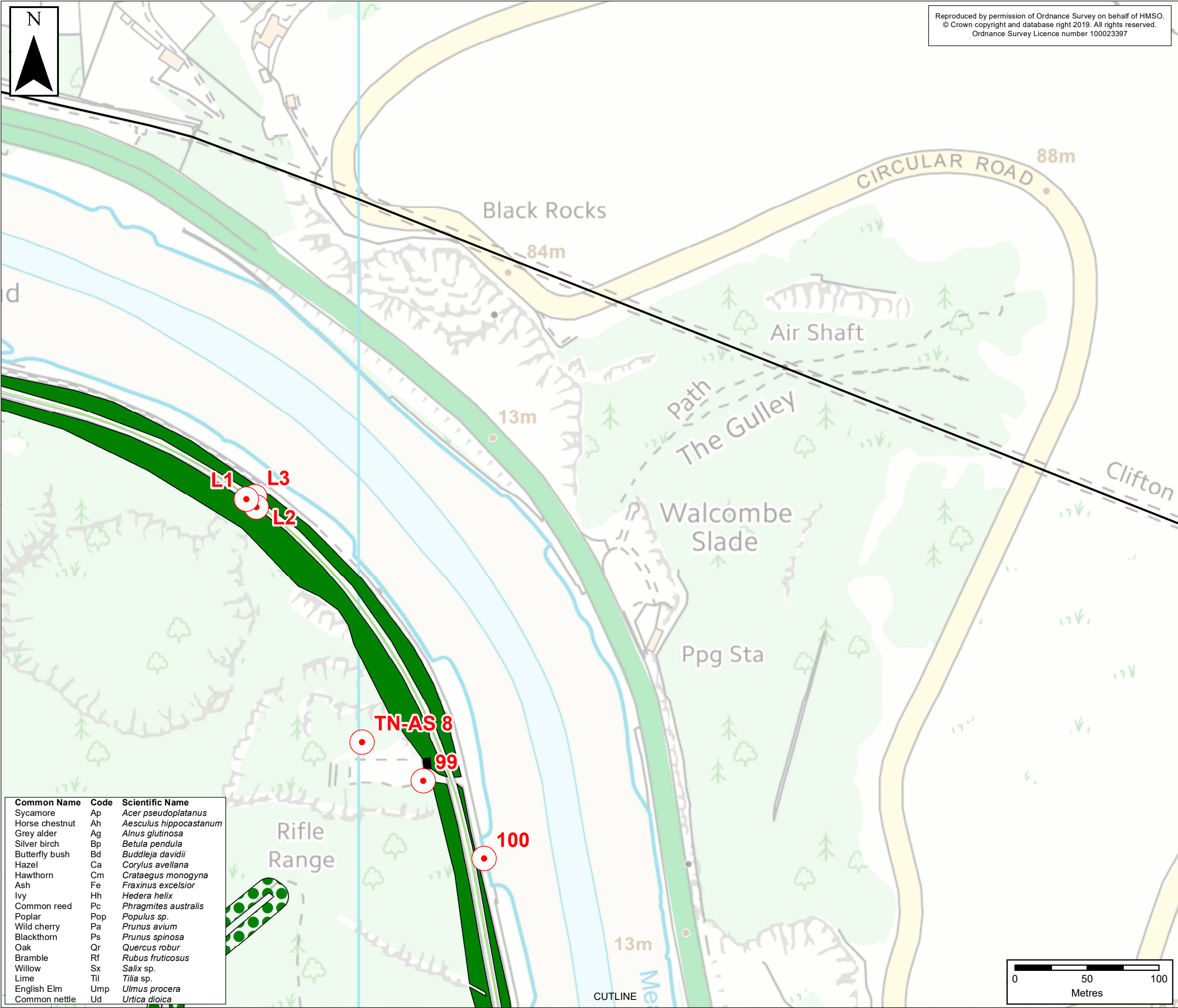
Project : Portishead Branch Line (MetroWest Phase 1)

Drawing : Figure 1 Phase 1 and Aerial Assessment Habitat Mapping Sheet 14 of 22
APFP Regulation 5(2)(a)

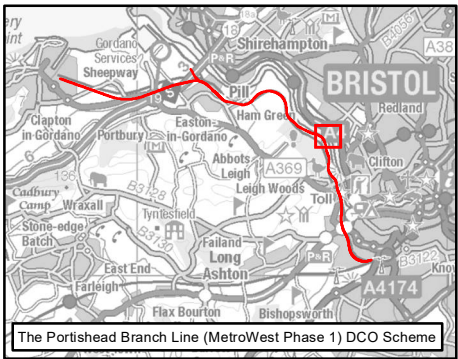
Drawn By : Andy Collinson Date: 28/10/2019
Checked By : Debbie Mackenzie Date: 28/10/2019
Approved By : Carolyn Francis Date: 28/10/2019

Drawing No. : 674946-001-002-A Revision ES-A

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KEY

Existing Railway Line

Portishead Branch Line

The Associated Development Works

A1.1.1, Broadleaved woodland - semi-natural

A3.1, Broadleaved Parkland/scattered trees

J3.6, Buildings

Aerial Assessment Habitats

Other

Target Note

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(MetroWest Phase 1)

Drawing : Figure 1 Phase 1 and Aerial
Assessment Habitat Mapping
Sheet 15 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019

Checked By : Debbie Mackenzie Date: 28/10/2019

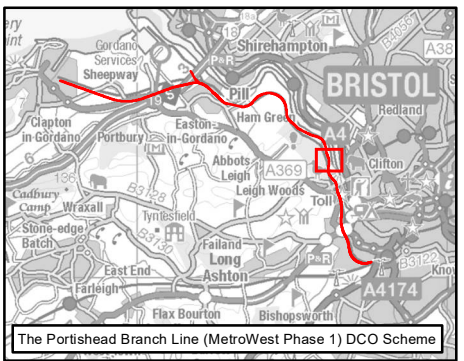
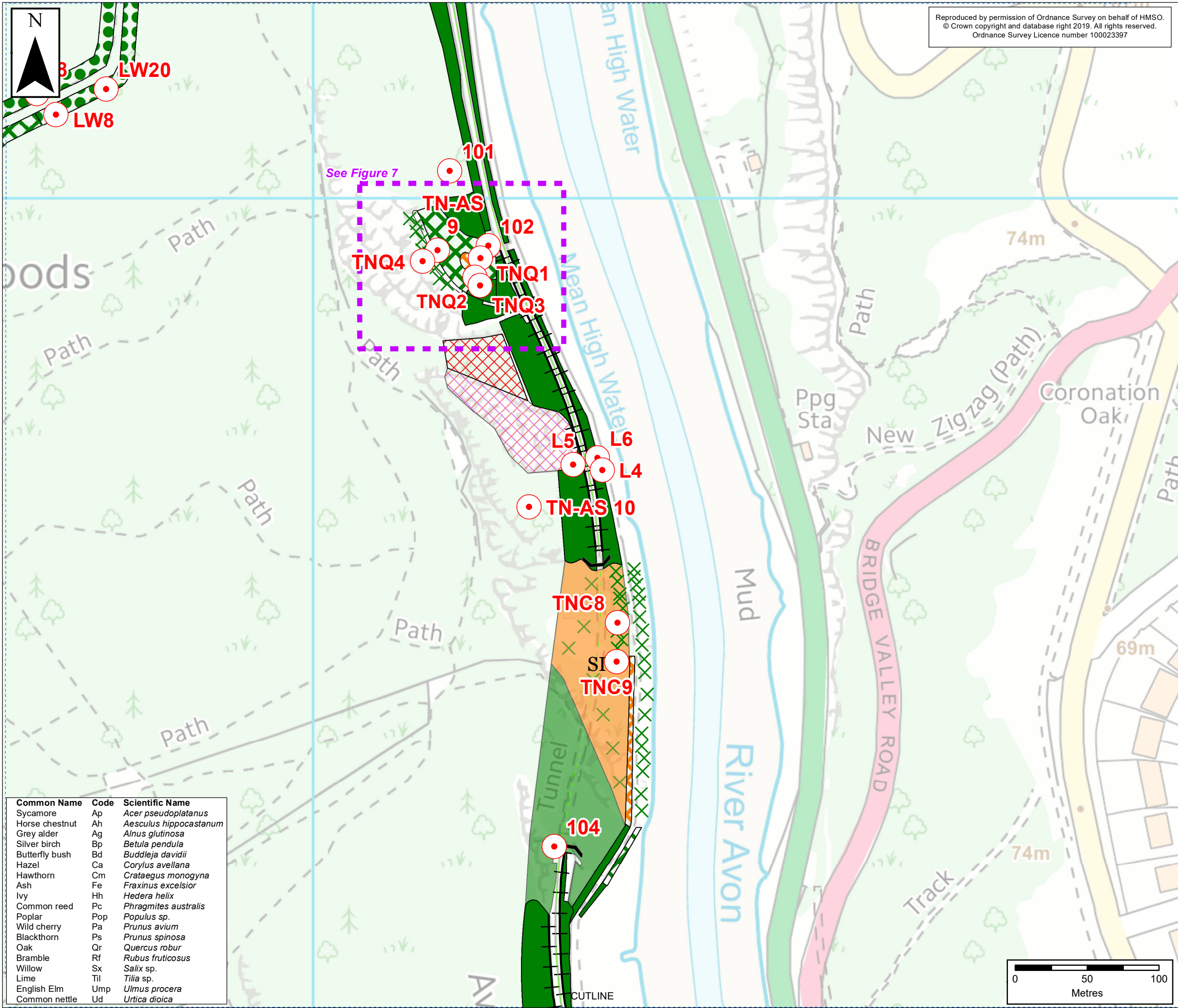
Approved By : Carolyn Francis Date: 28/10/2019

Drawing No. :
674946-001-002-A

Revision
ES-A

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



KEY

Portishead Branch Line

- The Associated Development Works
- Section in Tunnel

Phase 1 Habitats

- A2.2, Scrub - scattered
- J2.4, Fence
- A1.1.1, Broadleaved woodland - semi-natural
- A2.1, Scrub - dense/continuous
- A3.1, Broadleaved Parkland/scattered trees
- B3.1, Calcareous grassland - unimproved
- I1.4.2, Other exposure - basic
- I2.1, Quarry

Aerial Assessment Habitats

- Scrub - scattered
- Broadleaved woodland - semi-natural
- Neutral grassland - semi-improved
- Other exposure - basic

Other

- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
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Project : Portishead Branch Line
(MetroWest Phase 1)

Drawing : Figure 1 Phase 1 and Aerial
Assessment Habitat Mapping
Sheet 16 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019

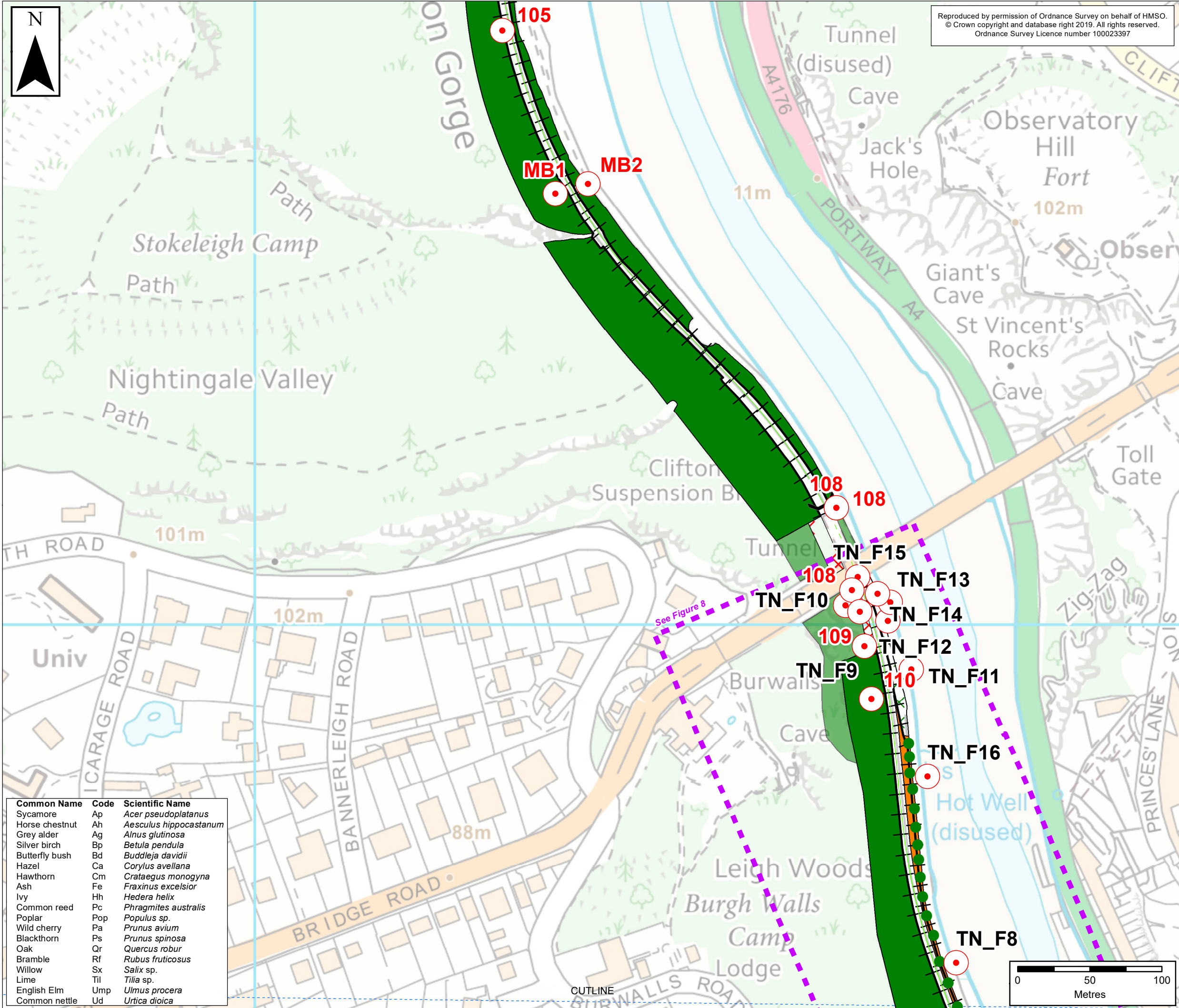
Checked By : Debbie Mackenzie Date: 28/10/2019

Approved By : Carolyn Francis Date: 28/10/2019

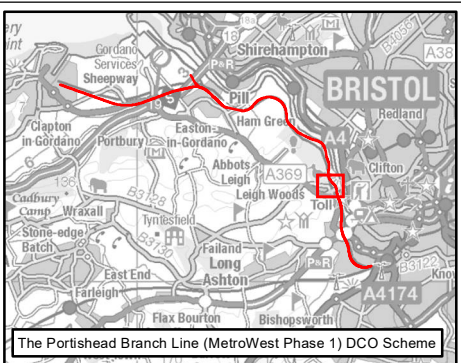
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KEY

Portishead Branch Line

- The Associated Development Works
- Section in Tunnel

Phase 1 Habitats

- A3.1, Broadleaved Parkland/scattered trees
- J2.4, Fence
- A1.1.1, Broadleaved woodland - semi-natural
- A2.2, Scrub - scattered
- B2.2, Neutral grassland - semi-improved
- I1.1.2, Inland cliff - basic

Aerial Assessment Habitats

- Broadleaved woodland - semi-natural

Other

- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
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Project : Portishead Branch Line
(MetroWest Phase 1)

Drawing : Figure 1 Phase 1 and Aerial
Assessment Habitat Mapping
Sheet 17 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019

Checked By : Debbie Mackenzie Date: 28/10/2019

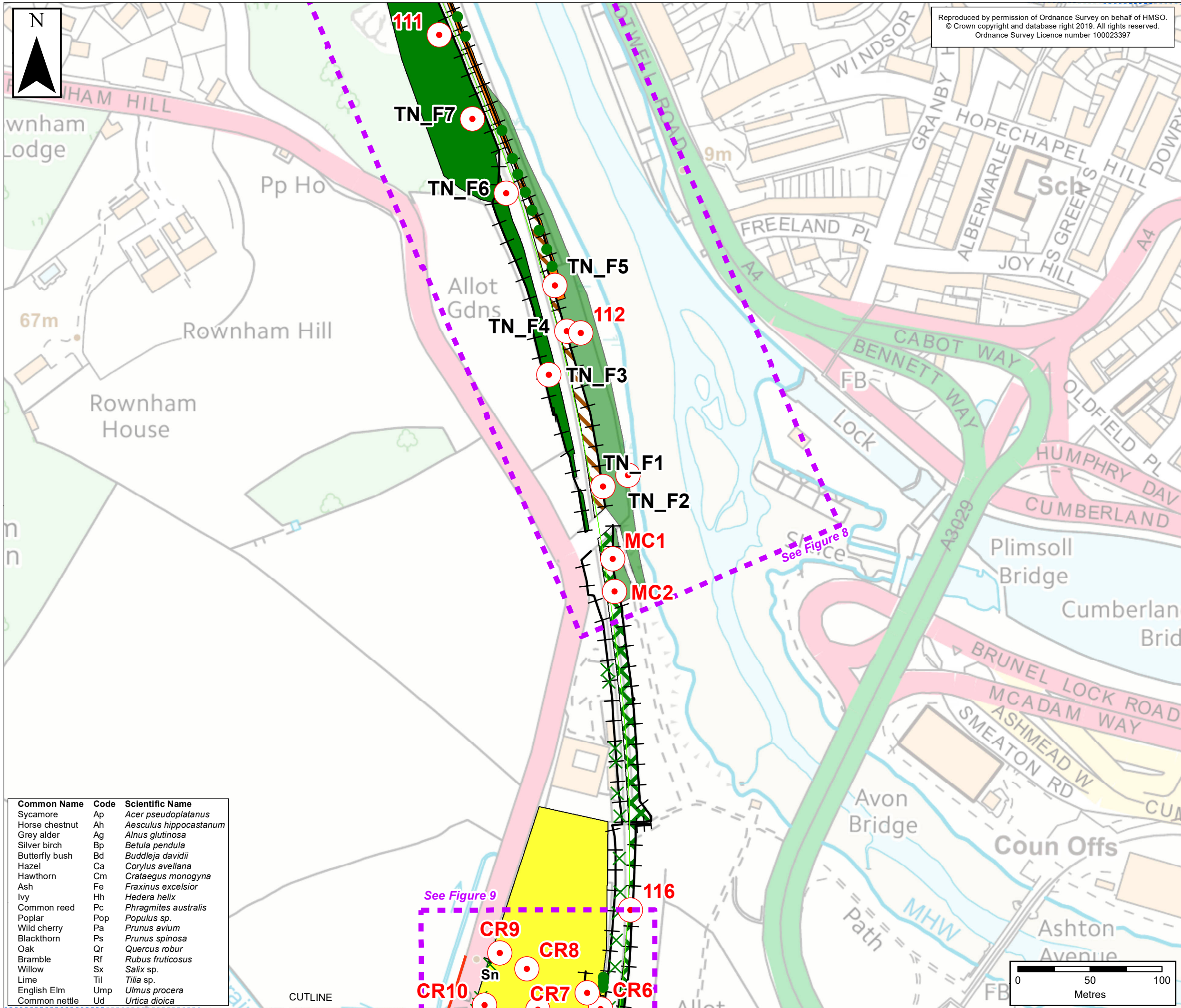
Approved By : Carolyn Francis Date: 28/10/2019

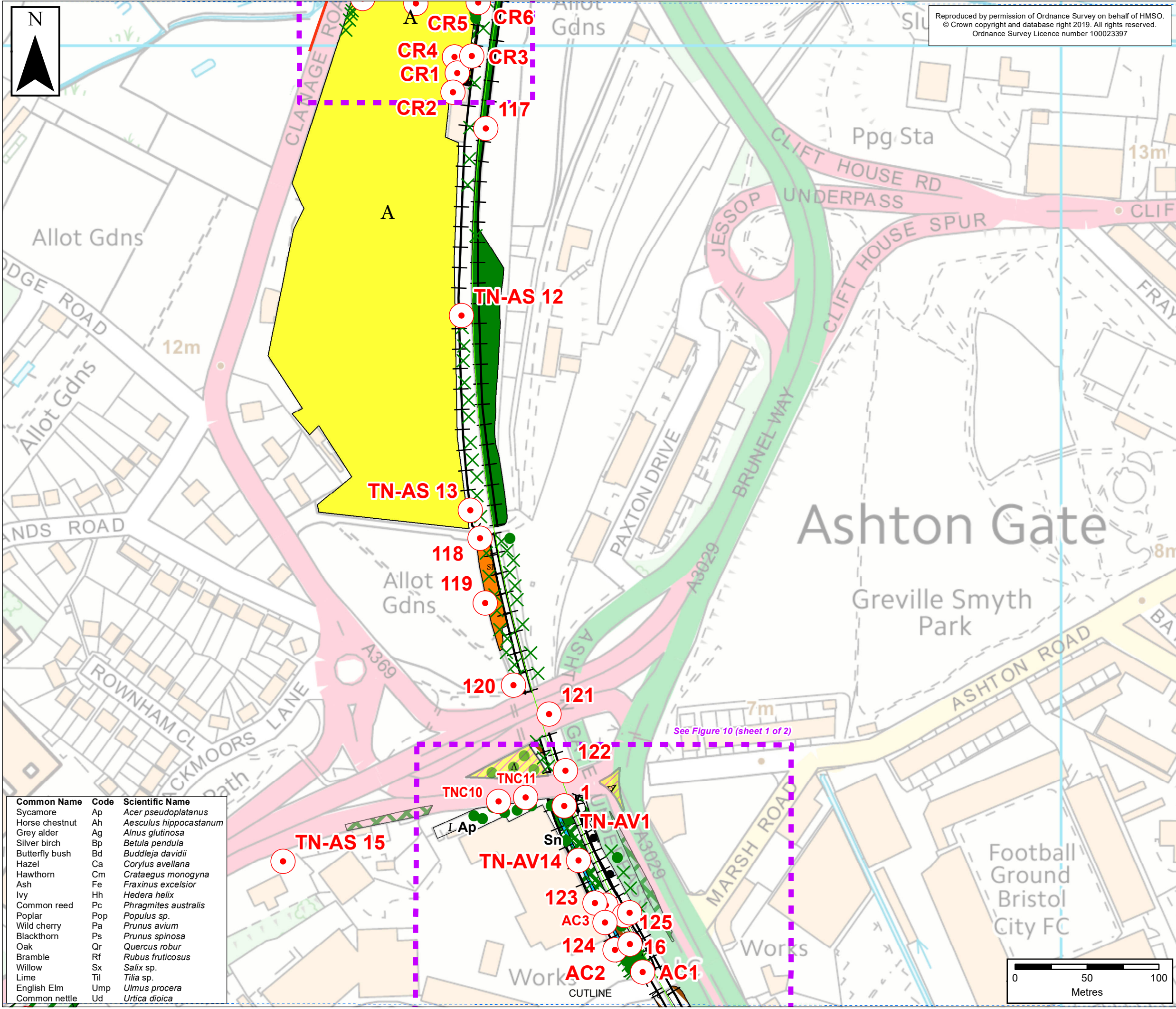
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674946-001-002-A

Revision
ES-A

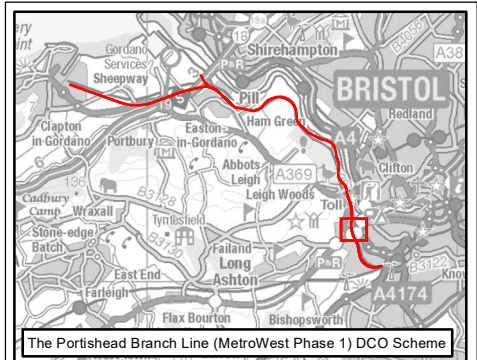
Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>





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The Portishead Branch Line (MetroWest Phase 1) DCO Scheme

KEY

Portishead Branch Line

The Associated Development Works

Phase 1 Habitats

- A2.2, Scrub - scattered
- A3.1, Broadleaved Parkland/scattered trees
- A3.2, Coniferous Parkland/scattered trees
- J2.4, Fence
- J2.5, Wall
- A1.1.1, Broadleaved woodland - semi-natural
- A1.1.2, Broadleaved woodland - plantation
- A2.1, Scrub - dense/continuous
- B2.2, Neutral grassland - semi-improved
- B4, Improved grassland
- C3.1, Other tall herb and fern - ruderal
- G1, Standing water
- J1.2, Cultivated/disturbed land - amenity grassland
- J1.3, Cultivated/disturbed land - ephemeral/short perennial
- J3.6, Buildings
- J4, Bare ground

Aerial Assessment Habitats

- Broadleaved Parkland/scattered trees
- Scrub - dense/continuous
- Cultivated/disturbed land - amenity grassland

Other

- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
Rev	By	Chkd	Apprvd	Date	Description

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

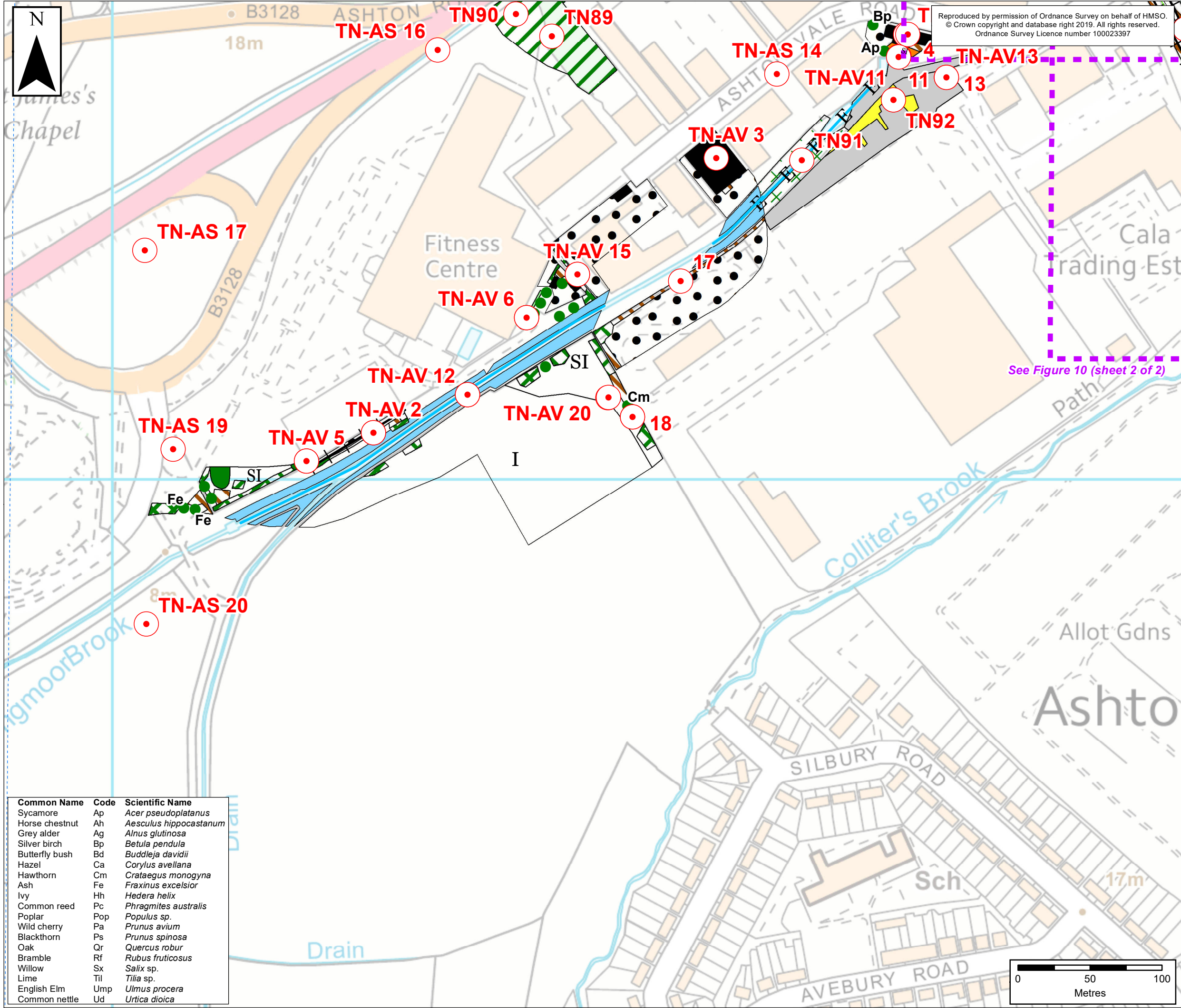
Drawing : **Figure 1 Phase 1 and Aerial Assessment Habitat Mapping Sheet 19 of 22**
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019
Checked By : Debbie Mackenzie Date: 28/10/2019
Approved By : Carolyn Francis Date: 28/10/2019

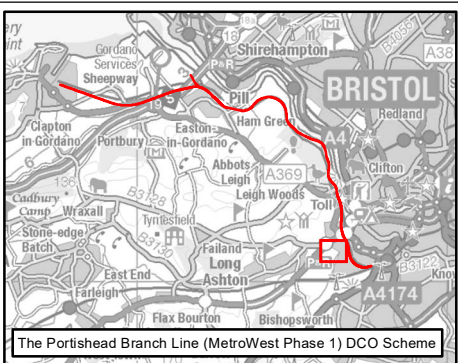
Drawing No. : **674946-001-002-A** Revision **ES-A**

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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KEY

Portishead Branch Line

The Associated Development Works

Phase 1 Habitats

- A3.1, Broadleaved Parkland/scattered trees
- G2, Running water
- G2.1, Running water - eutrophic
- J2.4, Fence
- A1.1.1, Broadleaved woodland - semi-natural
- A1.1.2, Broadleaved woodland - plantation
- A1.2.1, Coniferous woodland - semi-natural
- A2.1, Scrub - dense/continuous
- A2.2, Scrub - scattered
- B2.2, Neutral grassland - semi-improved
- B4, Improved grassland
- B6, Poor semi-improved grassland
- C3.1, Other tall herb and fern - ruderal
- F1, Swamp
- J1.2, Cultivated/disturbed land - amenity grassland
- J3.6, Buildings
- J4, Bare ground
- J5, Other habitat

Aerial Assessment Habitats

Other

- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
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Project : Portishead Branch Line
(MetroWest Phase 1)

Drawing : Figure 1 Phase 1 and Aerial
Assessment Habitat Mapping
Sheet 20 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019

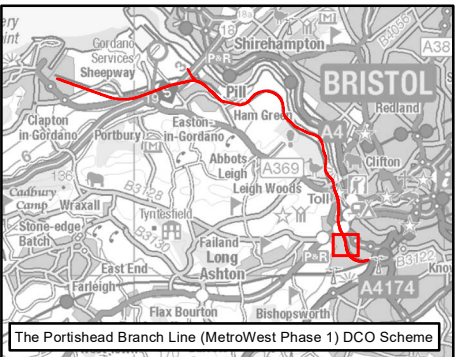
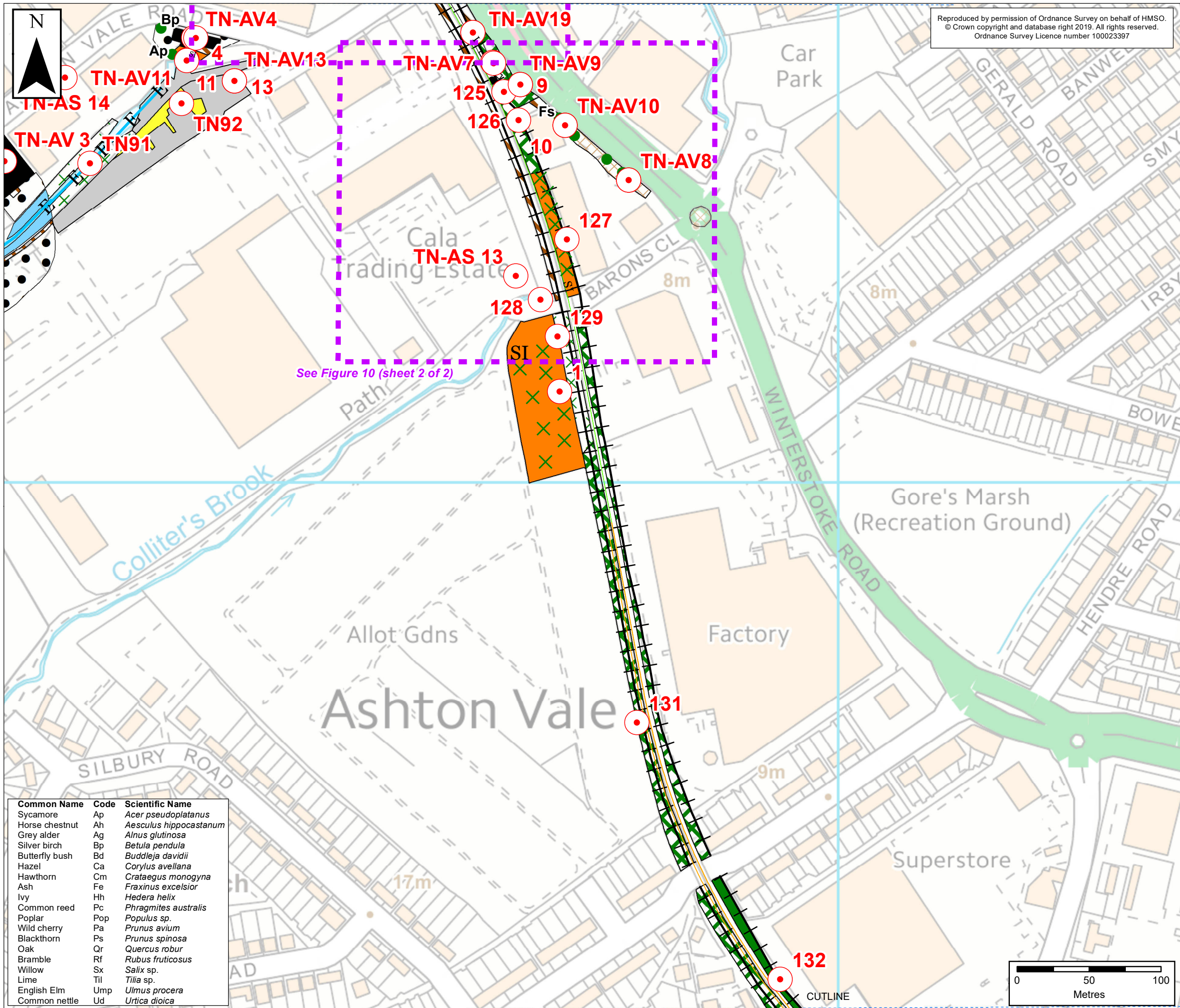
Checked By : Debbie Mackenzie Date: 28/10/2019

Approved By : Carolyn Francis Date: 28/10/2019

Drawing No. : 674946-001-002-A Revision
ES-A

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
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Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



- KEY**
- Portishead Branch Line**
- The Associated Development Works
- Other Works**
- Network Rail Permitted Development Rights
- Phase 1 Habitats**
- A2.2, Scrub - scattered
 - A3.1, Broadleaved Parkland/scattered trees
 - G2, Running water
 - G2.1, Running water - eutrophic
 - J2.4, Fence
 - A1.1.1, Broadleaved woodland - semi-natural
 - A2.1, Scrub - dense/continuous
 - A2.2, Scrub - scattered
 - B2.2, Neutral grassland - semi-improved
 - B4, Improved grassland
 - C3.1, Other tall herb and fern - ruderal
 - F1, Swamp
 - J1.2, Cultivated/disturbed land - amenity grassland
 - J1.4, Introduced shrub
 - J3.6, Buildings
 - J4, Bare ground
 - J5, Other habitat
- Aerial Assessment Habitats**
- Introduced shrub
- Other**
- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
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(MetroWest Phase 1)

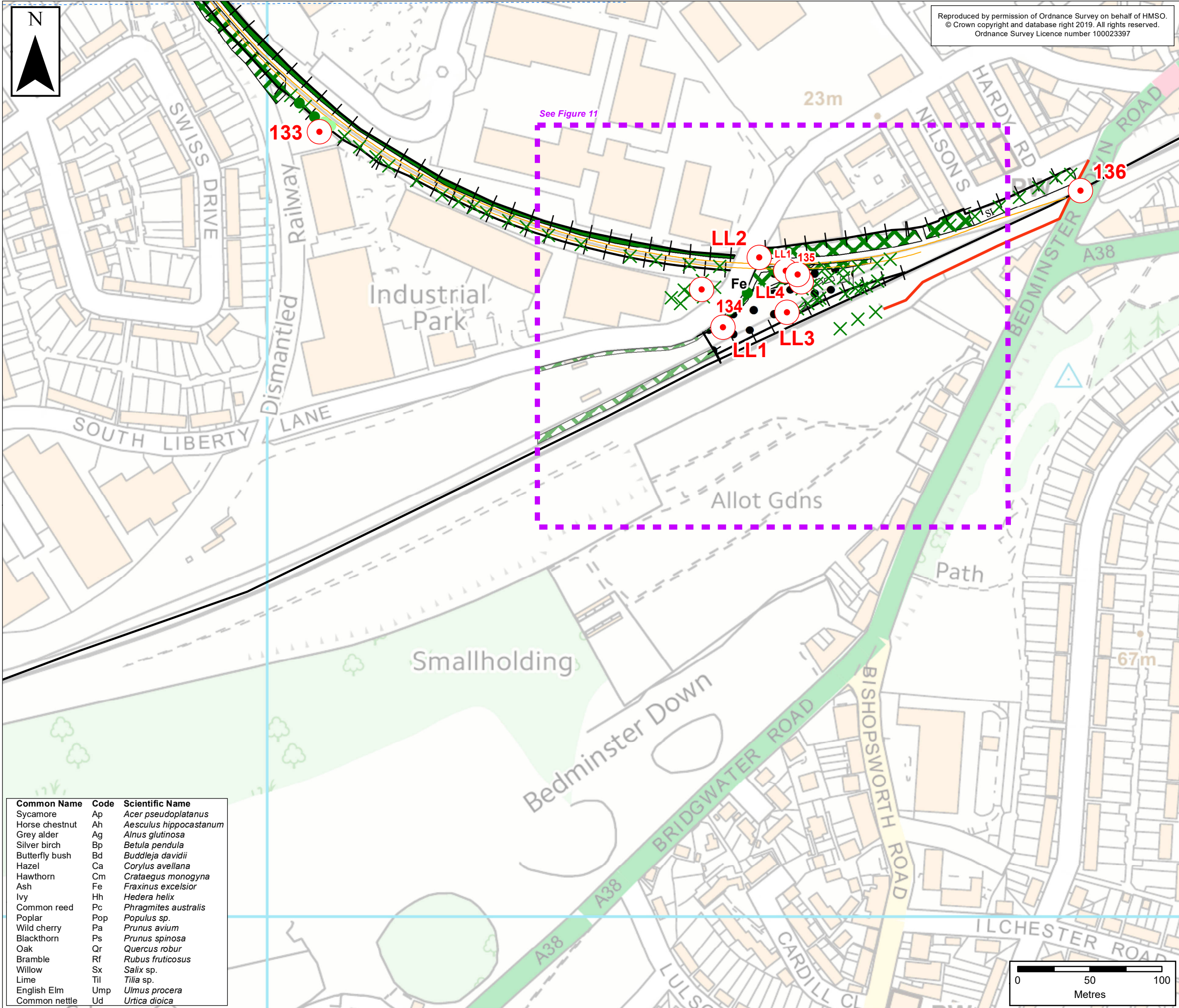
Drawing : Figure 1 Phase 1 and Aerial
Assessment Habitat Mapping
Sheet 21 of 22
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019
Checked By : Debbie Mackenzie Date: 28/10/2019
Approved By : Carolyn Francis Date: 28/10/2019

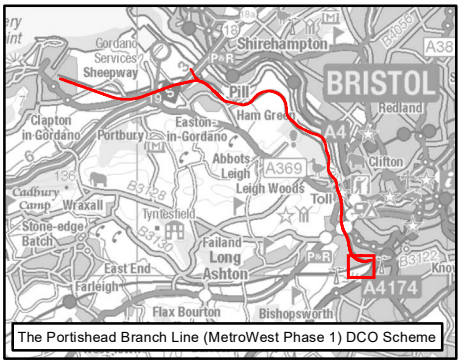
Drawing No. : 674946-001-002-A Revision
ES-A

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
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Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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KEY

Existing Railway Line

Other Works

Network Rail Permitted Development Rights

Phase 1 Habitats

- A2.2, Scrub - scattered
- A3.1, Broadleaved Parkland/scattered trees
- A3.2, Coniferous Parkland/scattered trees
- J2.4, Fence
- J2.5, Wall
- A1.1.1, Broadleaved woodland - semi-natural
- A2.1, Scrub - dense/continuous
- B6, Poor semi-improved grassland
- J4, Bare ground

Aerial Assessment Habitats

- Scrub - dense/continuous

Other

- Target Note

ES-A	AC	DM	CF	28/10/2019	First Issue
Rev	By	Chkd	Apprvd	Date	Description

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

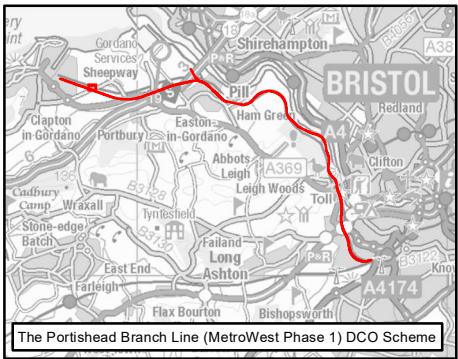
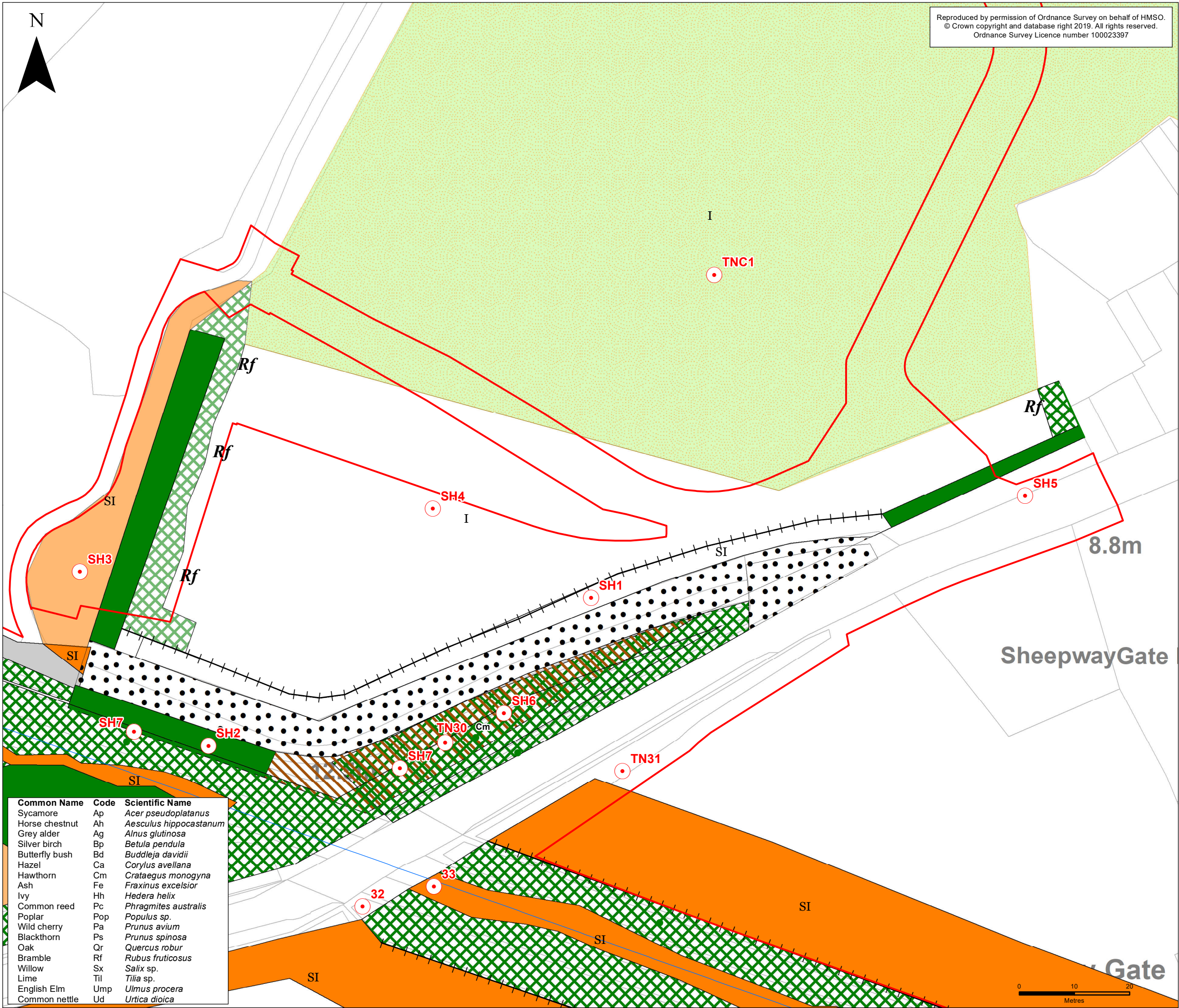
Drawing : **Figure 1 Phase 1 and Aerial Assessment Habitat Mapping Sheet 22 of 22**
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 28/10/2019
Checked By : Debbie Mackenzie Date: 28/10/2019
Approved By : Carolyn Francis Date: 28/10/2019

Drawing No. : **674946-001-002-A** Revision **ES-A**

Drawing Scale : 1:2,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



KEY

Order Limits

Portishead Branch Line

The Nationally Significant Infrastructure Project (NSIP) Works

Phase 1 Habitats

- A3.1, Broadleaved Parkland/scattered trees
- J2.1.2, Intact hedge - species-poor
- J2.4, Fence
- A1.1.1, Broadleaved woodland - semi-natural
- A2.1, Scrub - dense/continuous
- A2.2, Scrub - scattered
- B2.2, Neutral grassland - semi-improved
- B4, Improved grassland
- B6, Poor semi-improved grassland
- C3.1, Other tall herb and fern - ruderal
- J4, Bare ground
- J5, Other habitat

Aerial Assessment Habitats

- Scrub - dense/continuous
- Neutral grassland - semi-improved
- Improved grassland

Other

- Target Note

ES-A	AC	DM	CF	02/10/2019	First Issue
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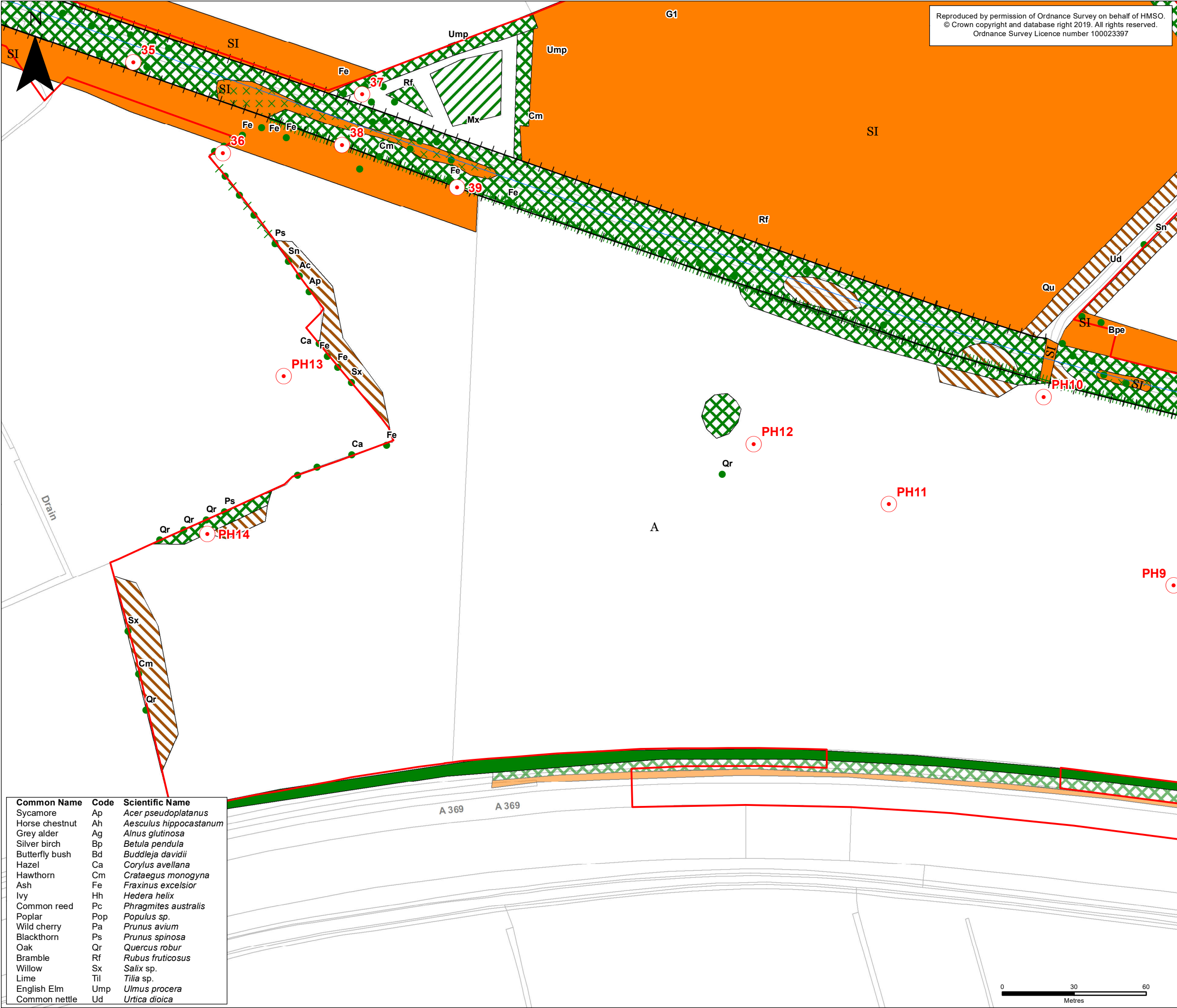
Project :
Portishead Branch Line
(MetroWest Phase 1)

Drawing :
Figure 2 - Sheepway Construction
Compound
APFP Regulation 5(2)(a)

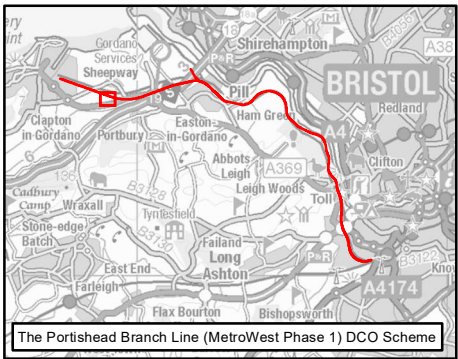
Drawn By : Andy Collinson Date: 02/10/2019
Checked By : Debbie Mackenzie Date: 02/10/2019
Approved By : Carolyn Francis Date: 02/10/2019

Drawing No. : 674946-016-004-A
Revision : ES-A

Drawing Scale : 1:650



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KEY

- Order Limits
- The Nationally Significant Infrastructure Project (NSIP) Works
- Phase 1 Habitats**
- x A2.2, Scrub - scattered
 - A3.1, Broadleaved Parkland/scattered trees
 - ||||| J2.3.2, Hedge with trees - species-poor
 - +— J2.4, Fence
 - A1.1.1, Broadleaved woodland - semi-natural
 - A1.1.2, Broadleaved woodland - plantation
 - A2.1, Scrub - dense/continuous
 - A2.2, Scrub - scattered
 - B2.2, Neutral grassland - semi-improved
 - C3.1, Other tall herb and fern - ruderal
 - J1.1, Cultivated/disturbed land - arable
- Aerial Assessment Habitats**
- Scrub - dense/continuous
 - Neutral grassland - semi-improved
- Other**
- Target Note

ES-A	AC	DM	CF	02/10/2019	First Issue
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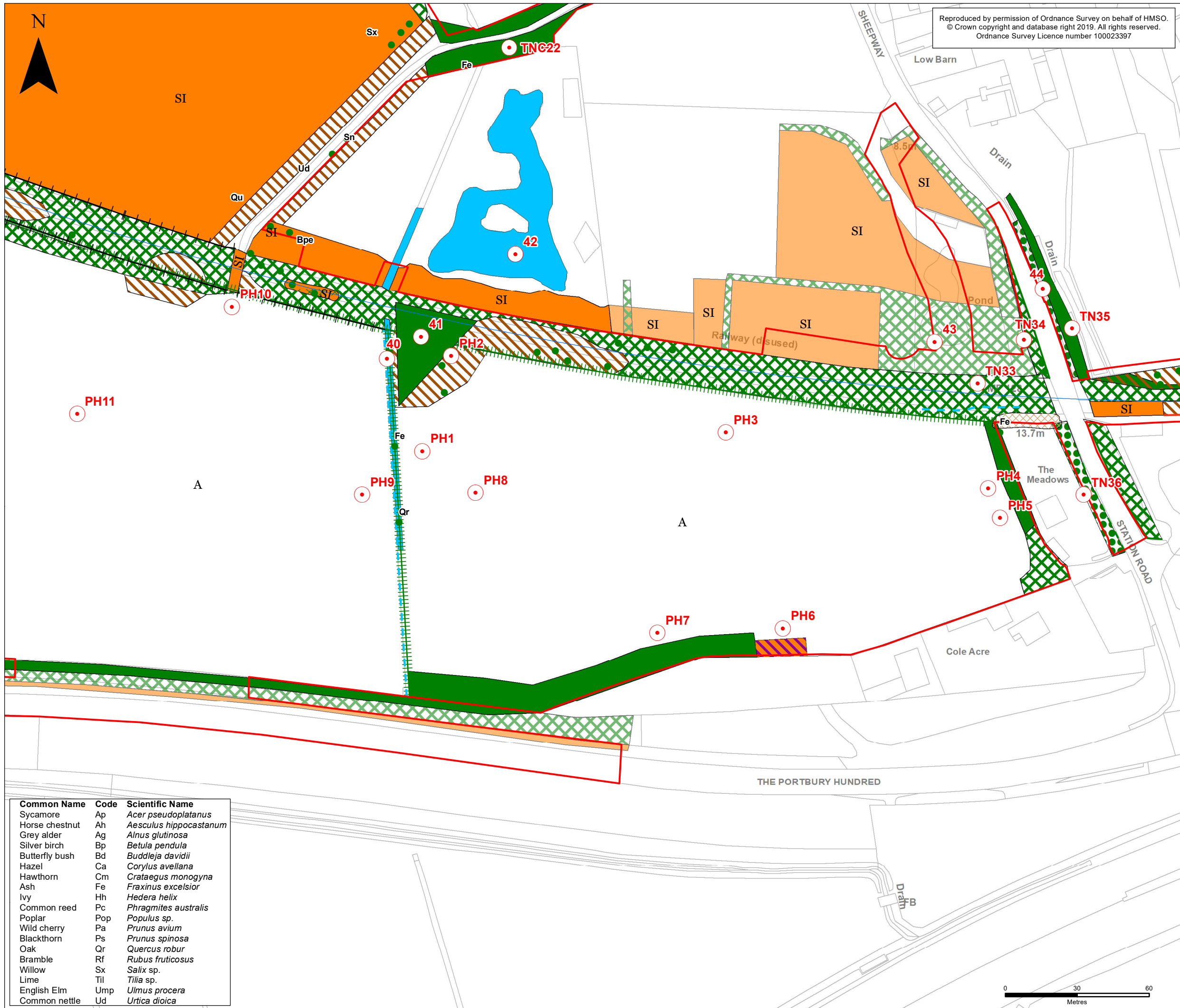
Drawing : **Figure 3 - Land of Portbury Hundred Construction Compound (sheet 1 of 2) APFP Regulation 5(2)(a)**

Drawn By : Andy Collinson Date: 02/10/2019
Checked By : Debbie Mackenzie Date: 02/10/2019
Approved By : Carolyn Francis Date: 02/10/2019

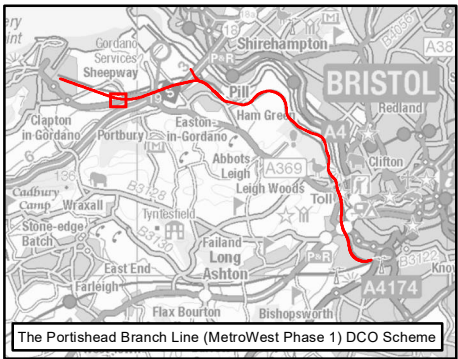
Drawing No. : **674946-016-004-A** Revision **ES-A**

Drawing Scale : 1:1,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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KEY

- Order Limits**
- Portishead Branch Line**
- The Nationally Significant Infrastructure Project (NSIP) Works
- Phase 1 Habitats**
- A3.1, Broadleaved Parkland/scattered trees
 - J2.1.2, Intact hedge - species-poor
 - J2.2.2, Defunct hedge - species-poor
 - J2.3.2, Hedge with trees - species-poor
 - J2.4, Fence
 - J2.5, Wall
 - J2.6, Dry ditch
 - A1.1.1, Broadleaved woodland - semi-natural
 - A2.1, Scrub - dense/continuous
 - A2.2, Scrub - scattered
 - A3.1, Broadleaved Parkland/scattered trees
 - B2.2, Neutral grassland - semi-improved
 - B5, Marsh/marshy grassland
 - C3.1, Other tall herb and fern - ruderal
 - G1, Standing water
 - G2, Running water
 - J1.1, Cultivated/disturbed land - arable
 - J1.4, Introduced shrub
- Aerial Assessment Habitats**
- Scrub - dense/continuous
 - Neutral grassland - semi-improved
- Other**
- Target Note

ES-A	AC	DM	CF	02/10/2019	First Issue
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Project : **Portishead Branch Line (MetroWest Phase 1)**

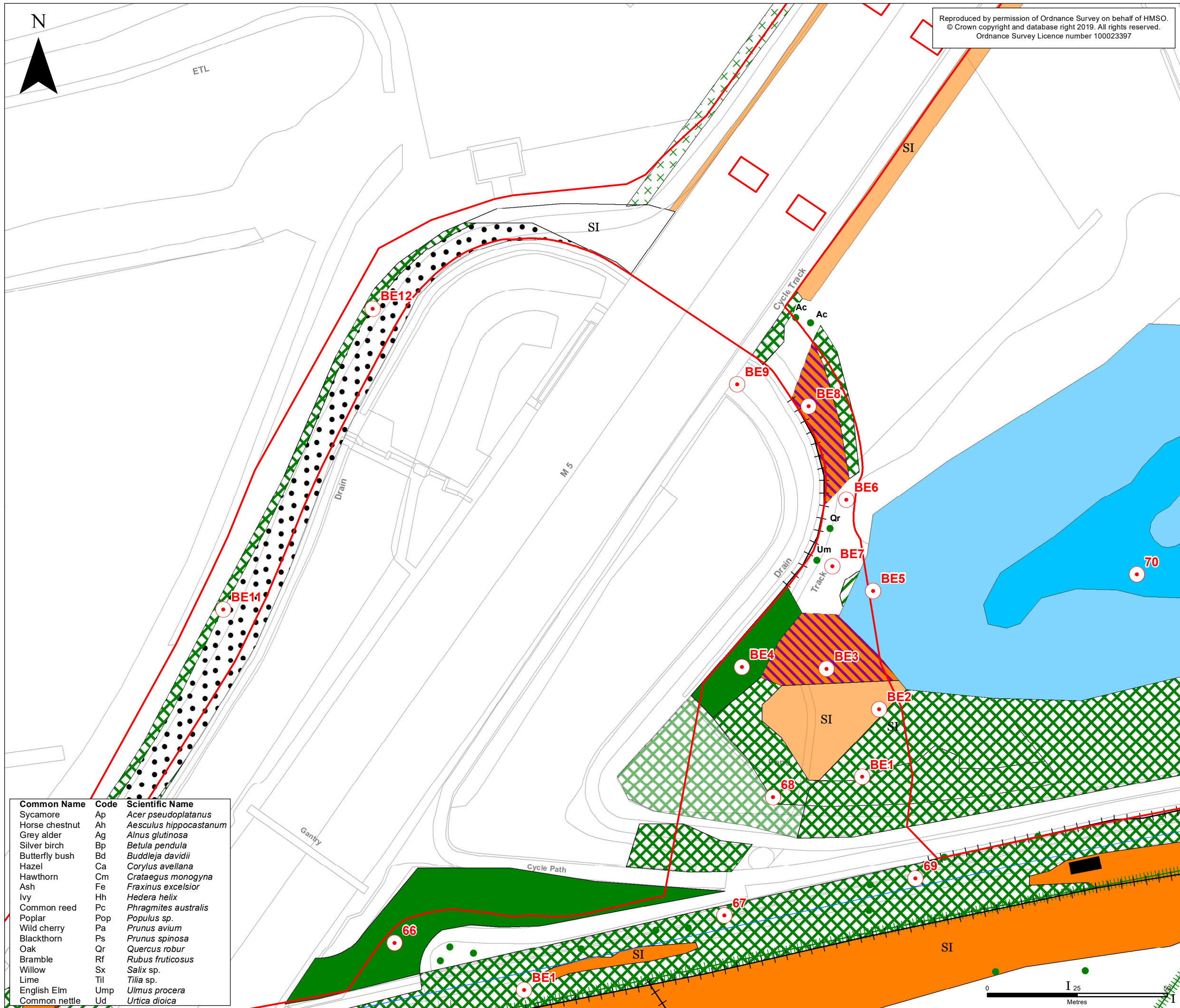
Drawing : **Figure 3 - Land of Portbury Hundred Construction Compound (sheet 2 of 2) APFP Regulation 5(2)(a)**

Drawn By : Andy Collinson Date: 02/10/2019
Checked By : Debbie Mackenzie Date: 02/10/2019
Approved By : Carolyn Francis Date: 02/10/2019

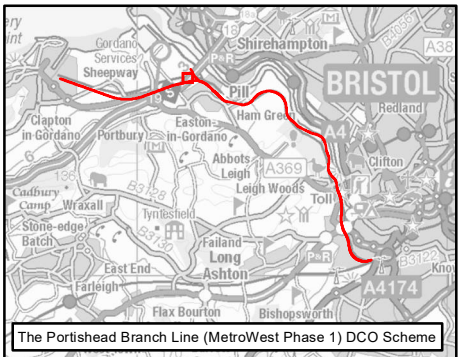
Drawing No. : **674946-016-004-A** Revision **ES-A**

Drawing Scale : 1:1,500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
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Willow	Sx	<i>Salix sp.</i>
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English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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KEY

- Order Limits**
- Portishead Branch Line**
- The Nationally Significant Infrastructure Project (NSIP) Works
- Phase 1 Habitats**
- A3.1, Broadleaved Parkland/scattered trees
 - J2.3.2, Hedge with trees - species-poor
 - J2.4, Fence
 - A1.1.1, Broadleaved woodland - semi-natural
 - A1.1.2, Broadleaved woodland - plantation
 - A2.1, Scrub - dense/continuous
 - A2.2, Scrub - scattered
 - B2.2, Neutral grassland - semi-improved
 - B4, Improved grassland
 - B5, Marsh/marshy grassland
 - B6, Poor semi-improved grassland
 - F1, Swamp
 - G1, Standing water
 - J3.6, Buildings
 - J4, Bare ground

- Aerial Assessment Habitats**
- Scrub - dense/continuous
 - Neutral grassland - semi-improved

- Other**
- Target Note

ES-A	AC	DM	CF	02/10/2019	First Issue
Rev	By	Chkd	Apprvd	Date	Description

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

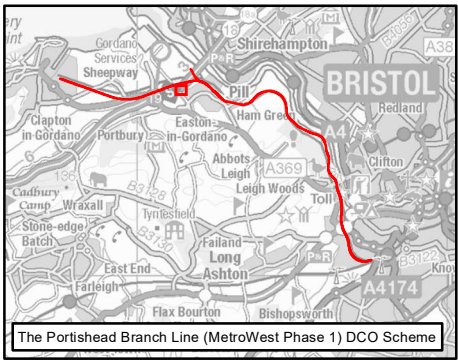
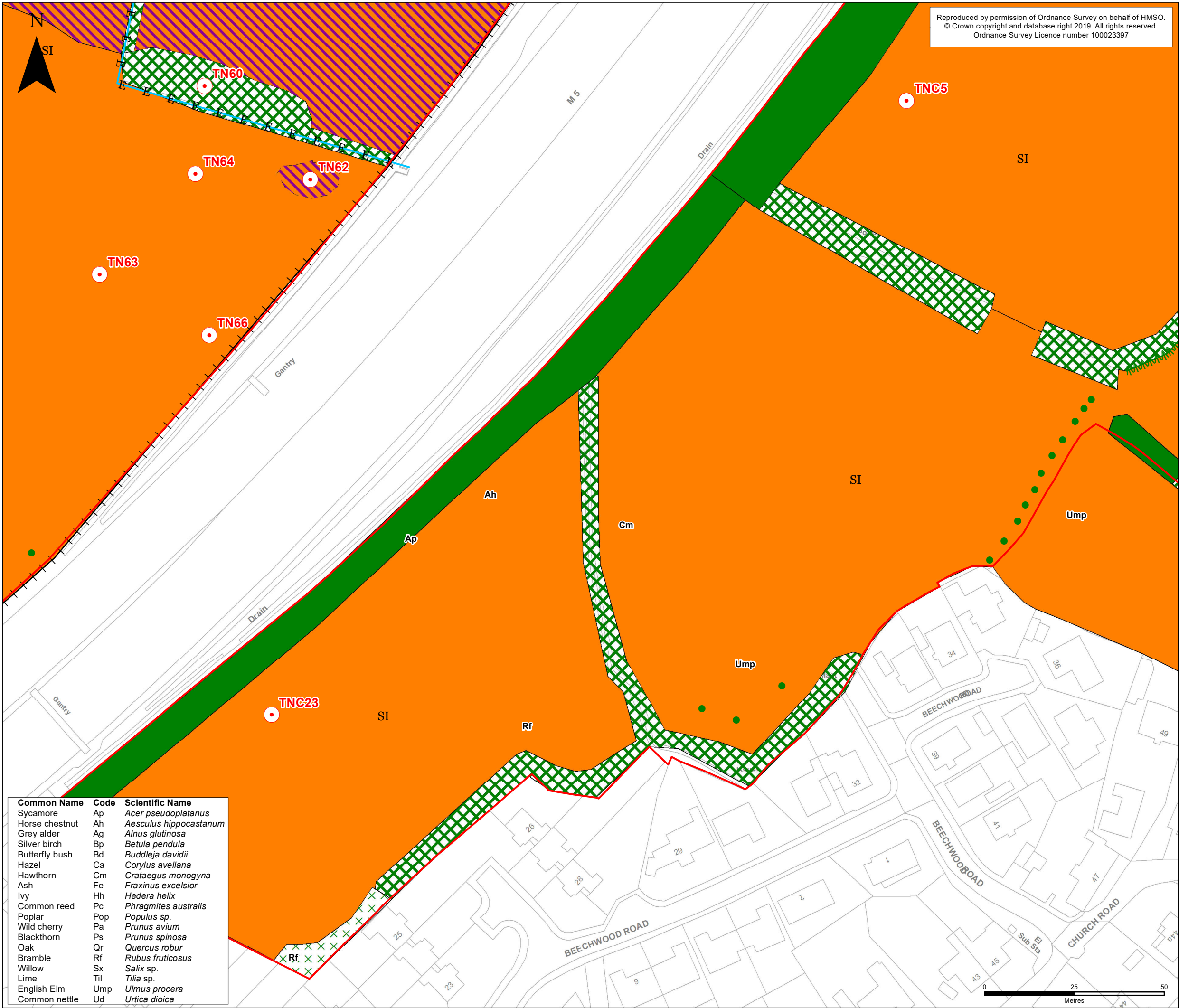
Drawing : **Figure 4 - M5 Bridleway Extension (sheet 1 of 5)**
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 02/10/2019
Checked By : Debbie Mackenzie Date: 02/10/2019
Approved By : Carolyn Francis Date: 02/10/2019

Drawing No. : **674946-016-004-A** Revision **ES-A**

Drawing Scale : 1:1,000

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



KEY

Order Limits

Phase 1 Habitats

- A3.1, Broadleaved Parkland/scattered trees
- G2.1, Running water - eutrophic
- J2.3.1, Hedge with trees - native species-rich
- J2.4, Fence
- A1.1.1, Broadleaved woodland - semi-natural
- A2.1, Scrub - dense/continuous
- A2.2, Scrub - scattered
- B2.2, Neutral grassland - semi-improved
- B5, Marsh/marshy grassland

Aerial Assessment Habitats

Other

- Target Note

ES-A	AC	DM	CF	02/10/2019	First Issue
Rev	By	Chkd	Apprvd	Date	Description

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

Drawing :
**Figure 4 - Lodway Construction Compound
(sheet 2 of 5)
APFP Regulation 5(2)(a)**

Drawn By : Andy Collinson Date: 02/10/2019

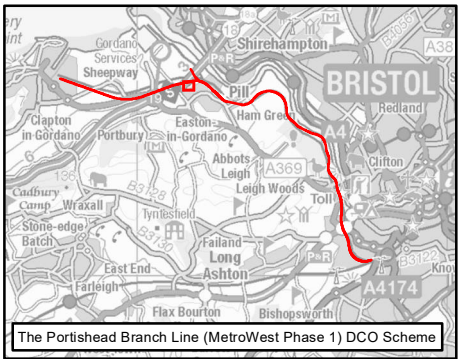
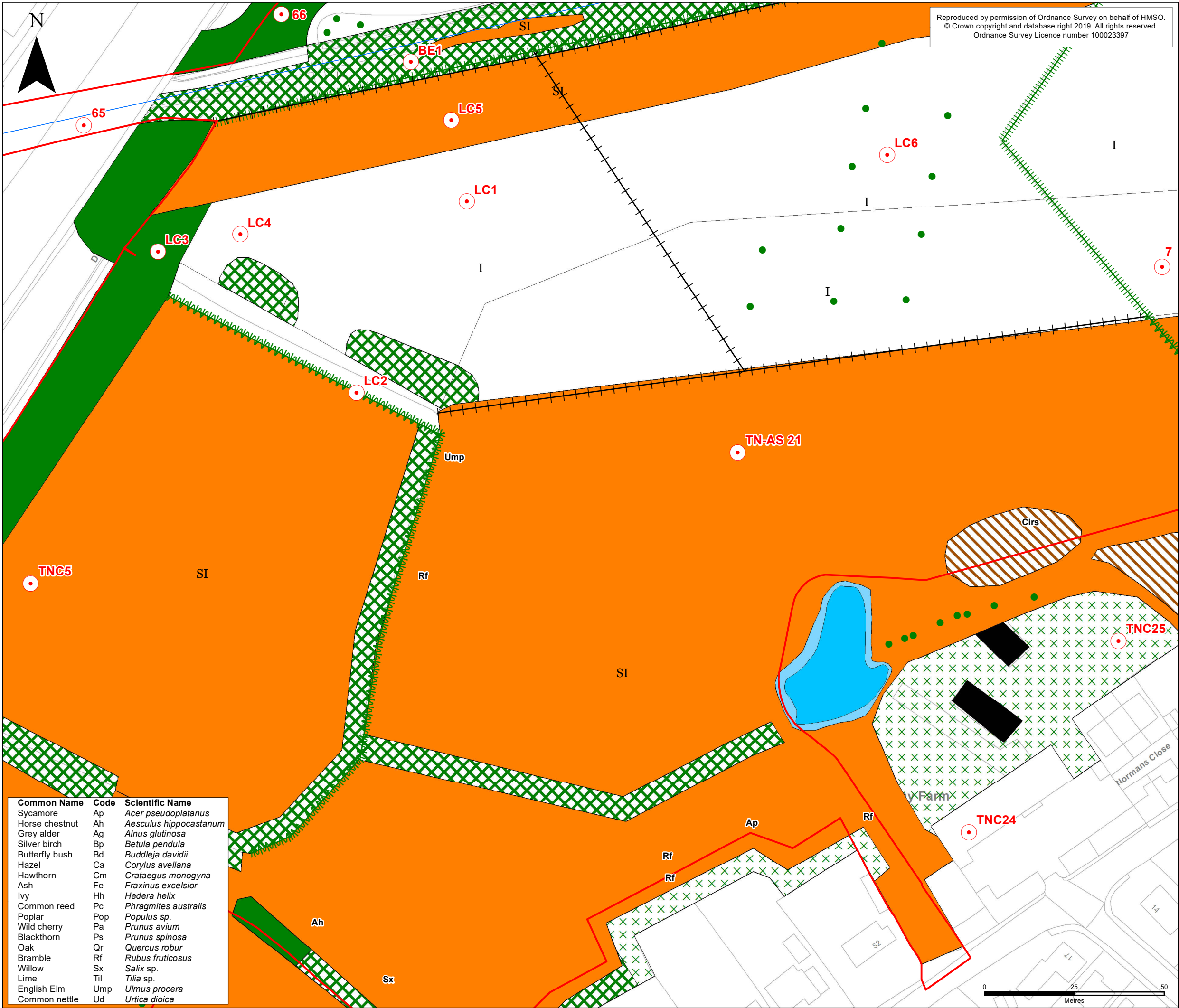
Checked By : Debbie Mackenzie Date: 02/10/2019

Approved By : Carolyn Francis Date: 02/10/2019

Drawing No. :
674946-016-004-A

Revision
ES-A

Drawing Scale : 1:1,000



KEY

Order Limits

Portishead Branch Line

The Nationally Significant Infrastructure Project (NSIP) Works

Phase 1 Habitats

- A3.1, Broadleaved Parkland/scattered trees
- J2.3.1, Hedge with trees - native species-rich
- J2.3.2, Hedge with trees - species-poor
- J2.4, Fence
- A1.1.1, Broadleaved woodland - semi-natural
- A1.1.2, Broadleaved woodland - plantation
- A2.1, Scrub - dense/continuous
- A2.2, Scrub - scattered
- B2.2, Neutral grassland - semi-improved
- B4, Improved grassland
- C3.1, Other tall herb and fern - ruderal
- F1, Swamp
- G1, Standing water
- J3.6, Buildings

Aerial Assessment Habitats

Other

- Target Note

Rev	By	Chkd	Apprvd	Date	Description
ES-A	AC	DM	CF	02/10/2019	First Issue

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Project :

Portishead Branch Line
(MetroWest Phase 1)

Drawing :

Figure 4 - Lodway Construction Compound
(sheet 3 of 5)
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 02/10/2019

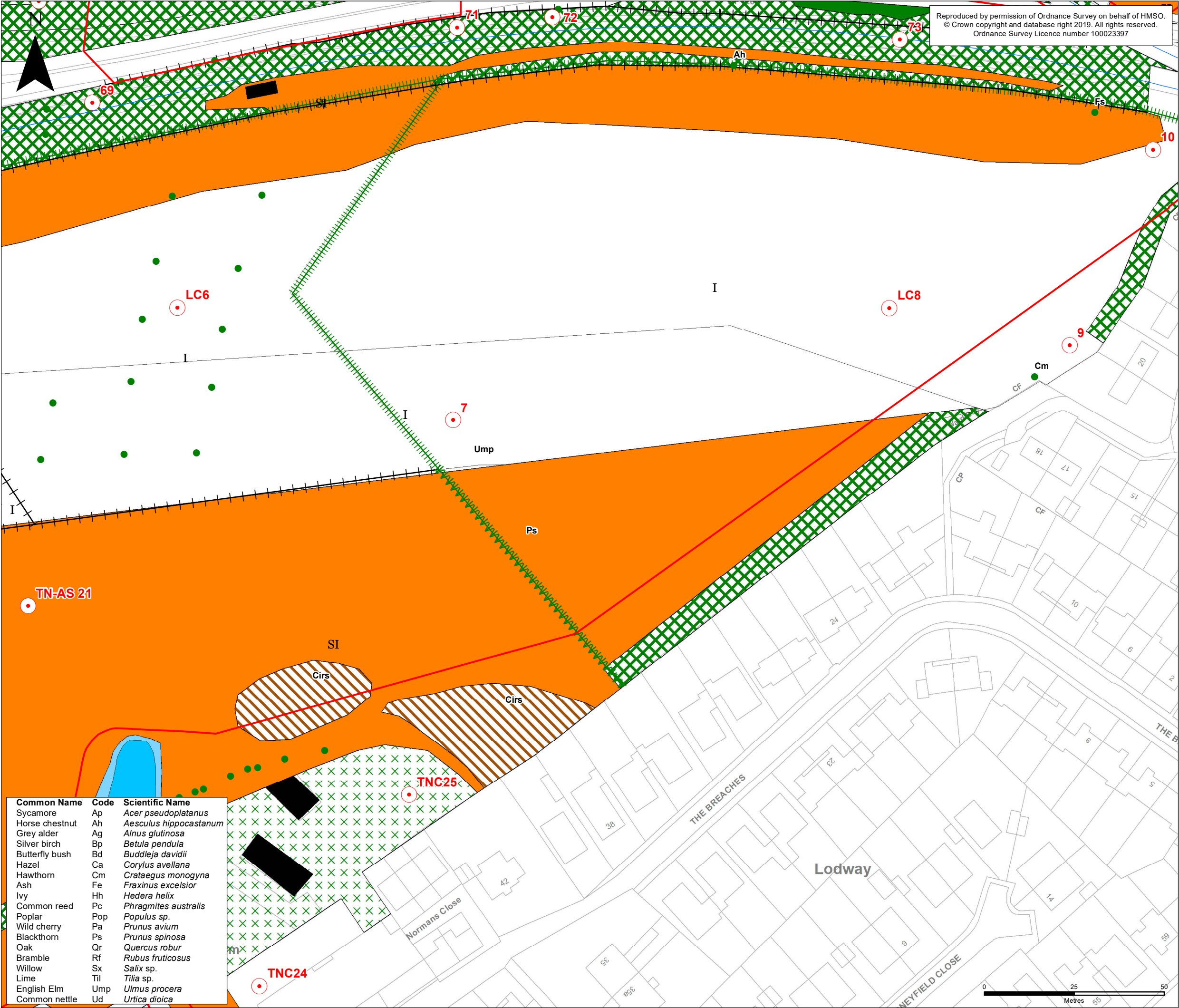
Checked By : Debbie Mackenzie Date: 02/10/2019

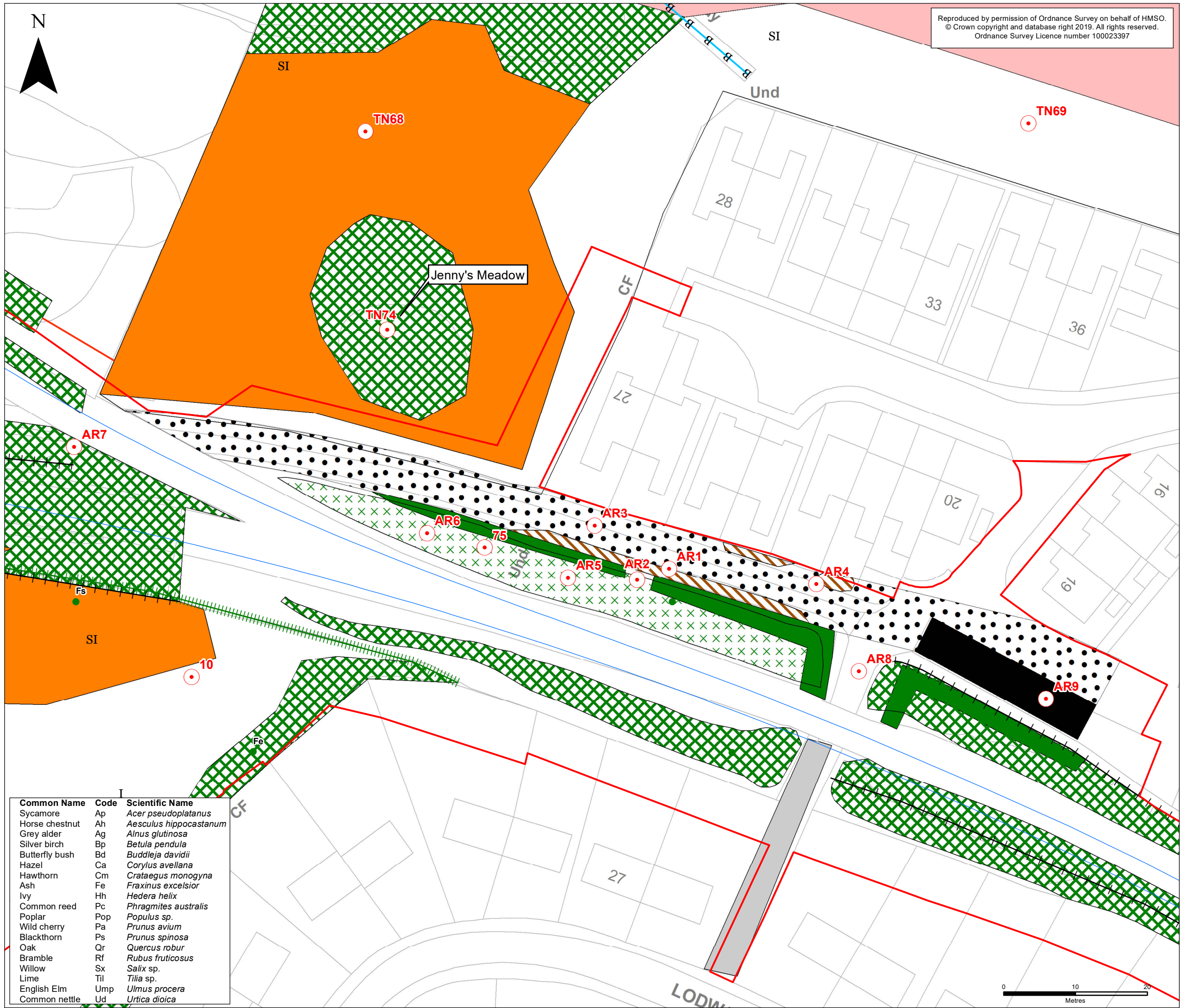
Approved By : Carolyn Francis Date: 02/10/2019

Drawing No. :
674946-016-004-A

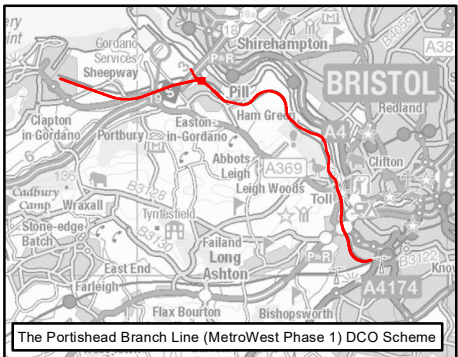
Revision
ES-A

Drawing Scale : 1:1,000





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KEY

- Order Limits
- Portishead Branch Line**
 - The Nationally Significant Infrastructure Project (NSIP) Works
- Phase 1 Habitats**
 - A3.1, Broadleaved Parkland/scattered trees
 - G2.6, Running water - brackish
 - J2.3.2, Hedge with trees - species-poor
 - J2.4, Fence
 - J2.5, Wall
 - A1.1.1, Broadleaved woodland - semi-natural
 - A2.1, Scrub - dense/continuous
 - A2.2, Scrub - scattered
 - B2.2, Neutral grassland - semi-improved
 - B4, Improved grassland
 - B6, Poor semi-improved grassland
 - C3.1, Other tall herb and fern - ruderal
 - H2.6, Saltmarsh - dense/continuous
 - J3.6, Buildings
 - J4, Bare ground
 - J5, Other habitat

Aerial Assessment Habitats

- Other**
 - Target Note

ES-A	AC	DM	CF	02/10/2019	First Issue
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Project : **Portishead Branch Line (MetroWest Phase 1)**

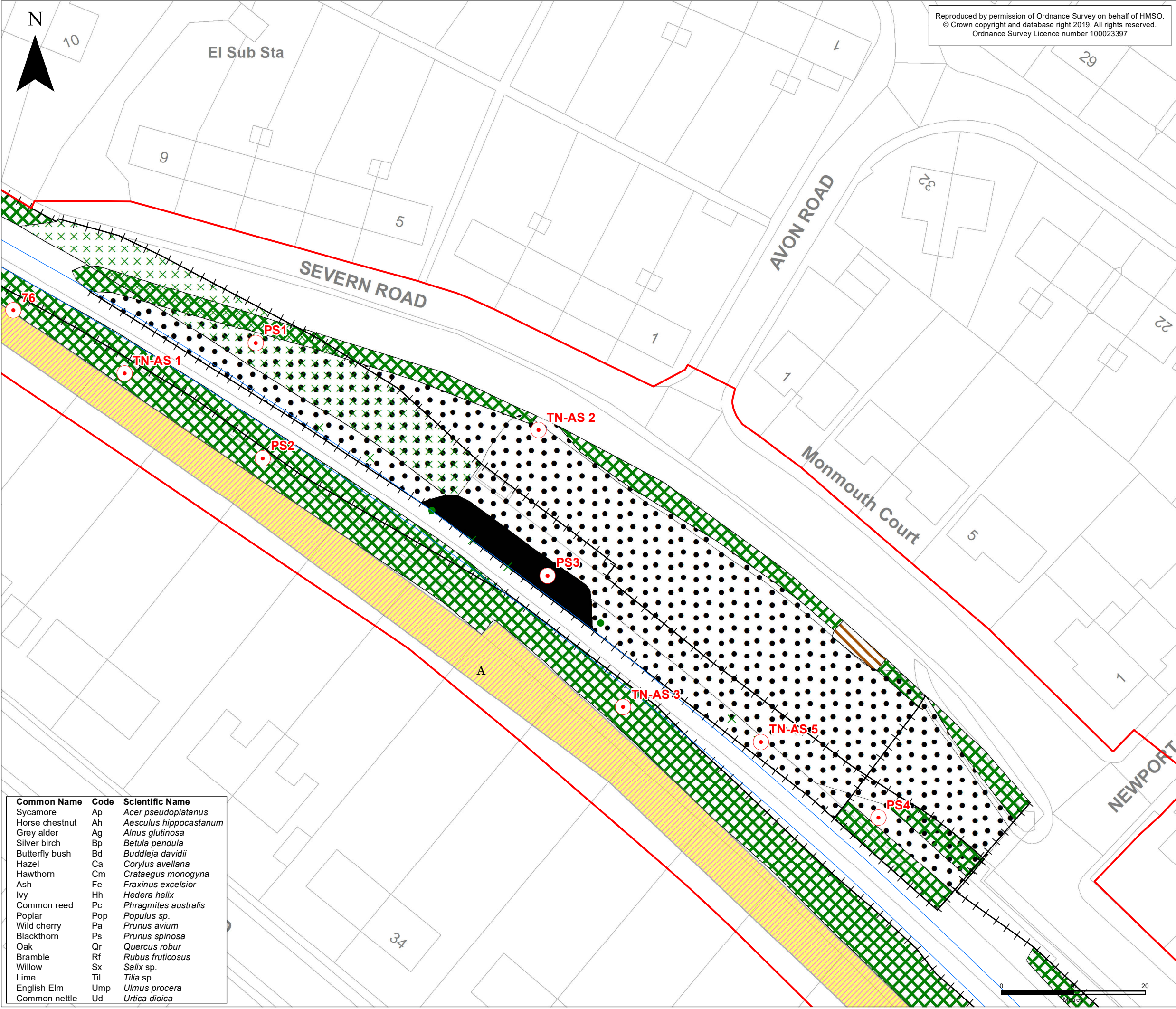
Drawing : **Figure 4 - Avon Bridge Construction Compound (sheet 5 of 5) APFP Regulation 5(2)(a)**

Drawn By : Andy Collinson Date: 02/10/2019
Checked By : Debbie Mackenzie Date: 02/10/2019
Approved By : Carolyn Francis Date: 02/10/2019

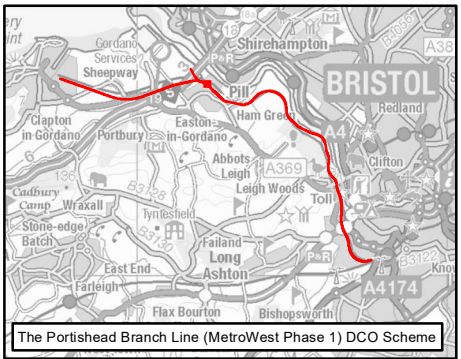
Drawing No. : 674946-016-004-A Revision ES-A

Drawing Scale : 1:500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



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KEY

- Order Limits
- Portishead Branch Line**
 - The Nationally Significant Infrastructure Project (NSIP) Works
- Phase 1 Habitats**
 - A2.2, Scrub - scattered
 - A3.1, Broadleaved Parkland/scattered trees
 - J2.4, Fence
 - A2.1, Scrub - dense/continuous
 - A2.2, Scrub - scattered
 - C3.1, Other tall herb and fern - ruderal
 - J3.6, Buildings
 - J4, Bare ground

- Aerial Assessment Habitats**
 - Cultivated/disturbed land - amenity grassland
- Other**
 - Target Note

ES-A	AC	DM	CF	02/10/2019	First Issue
Rev	By	Chkd	Apprvd	Date	Description

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

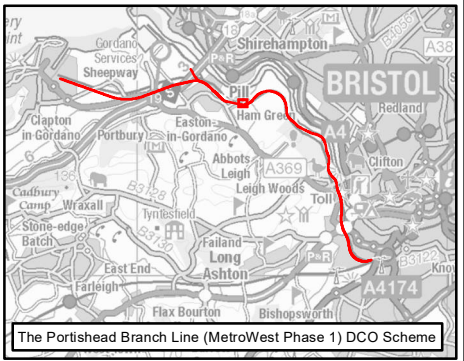
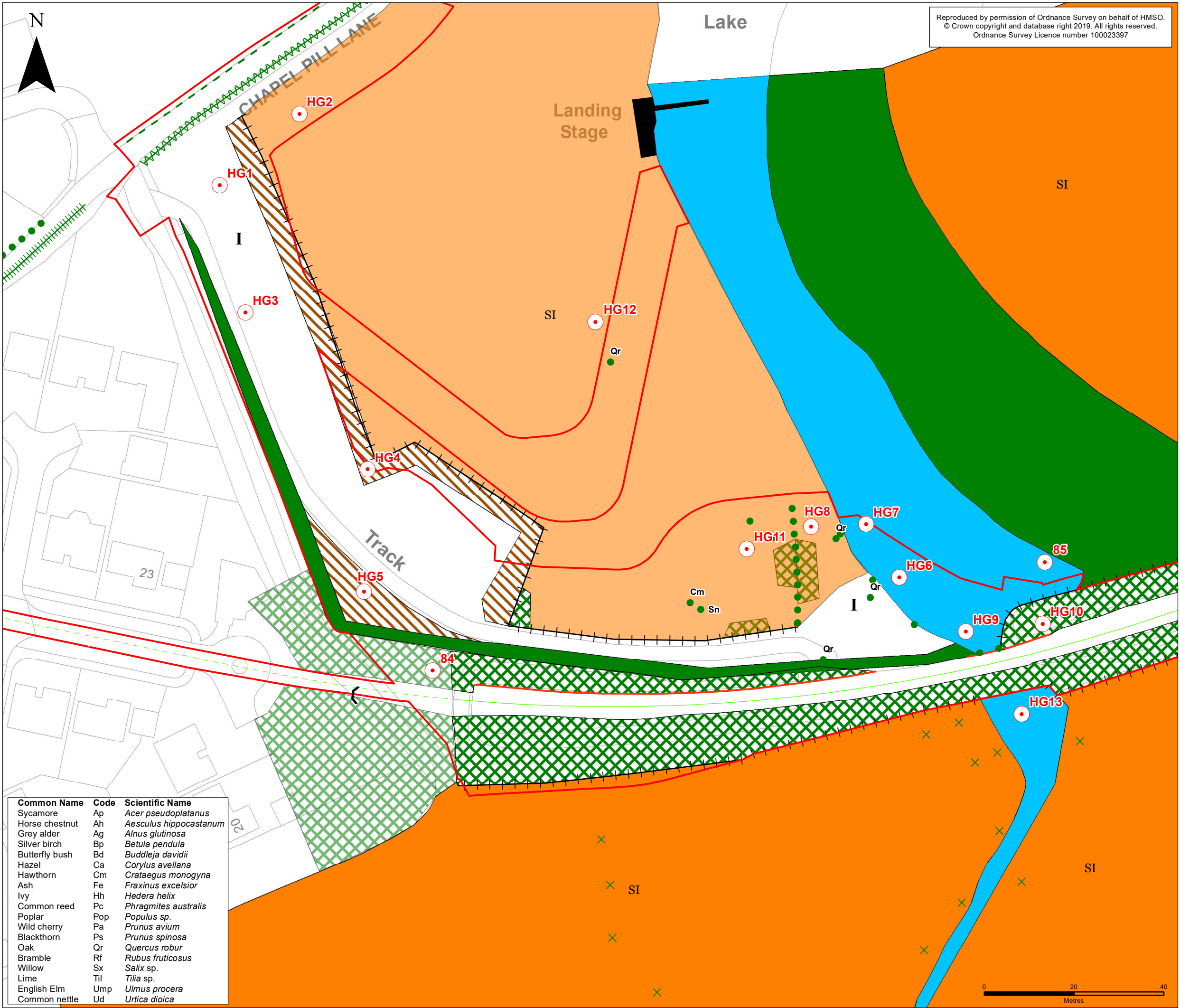
Drawing : **Figure 5 - Pill Station Construction Compound
APFP Regulation 5(2)(a)**

Drawn By : Andy Collinson Date: 02/10/2019
Checked By : Debbie Mackenzie Date: 02/10/2019
Approved By : Carolyn Francis Date: 02/10/2019

Drawing No. : **674946-016-004-A** Revision **ES-A**

Drawing Scale : 1:500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



KEY

Order Limits

Portishead Branch Line

The Associated Development Works

Section in Tunnel

Phase 1 Habitats

A2.2, Scrub - scattered

A3.1, Broadleaved Parkland/scattered trees

A3.1, Broadleaved Parkland/scattered trees

J2.1.1, Intact hedge - native species-rich

J2.2.2, Defunct hedge - species-poor

J2.3.2, Hedge with trees - species-poor

J2.4, Fence

J2.5, Wall

A1.1.1, Broadleaved woodland - semi-natural

A2.1, Scrub - dense/continuous

B2.2, Neutral grassland - semi-improved

C3.1, Other tall herb and fern - ruderal

G1, Standing water

J3.6, Buildings

Aerial Assessment Habitats

Scrub - dense/continuous

Neutral grassland - semi-improved

Other

Target Note

ES-A	AC	DM	CF	02/10/2019	First Issue
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Project :

Portishead Branch Line
(MetroWest Phase 1)

Drawing :

Figure 6 - Ham Green Construction
Compound
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 02/10/2019

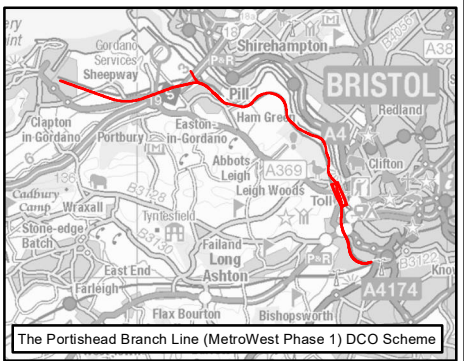
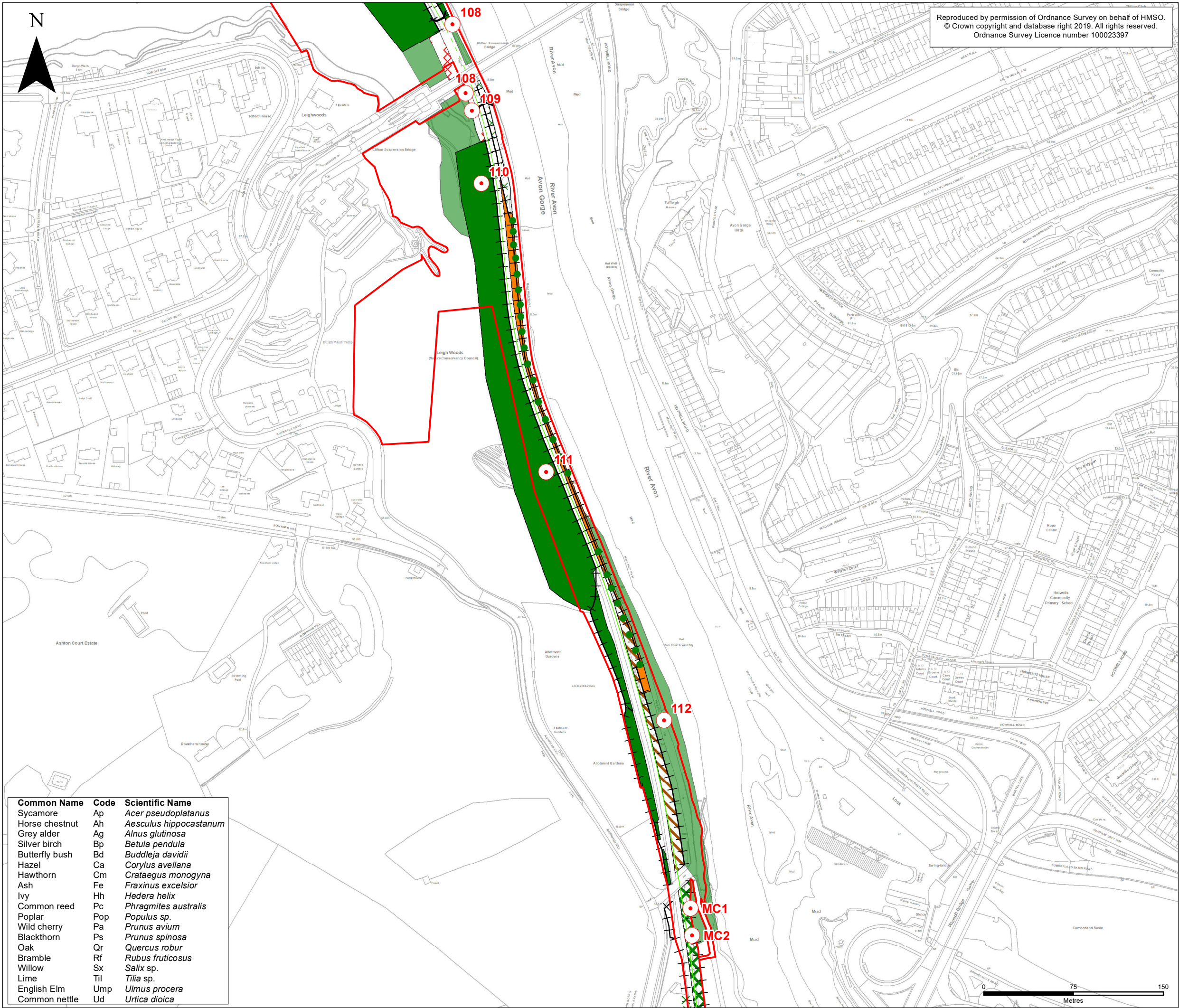
Checked By : Debbie Mackenzie Date: 02/10/2019

Approved By : Carolyn Francis Date: 02/10/2019

Drawing No. :
674946-016-004-A

Revision
ES-A

Drawing Scale : 1:800



KEY

Order Limits

Portishead Branch Line

The Associated Development Works

Section in Tunnel

Phase 1 Habitats

A2.2, Scrub - scattered

A3.1, Broadleaved Parkland/scattered trees

J2.4, Fence

A1.1.1, Broadleaved woodland - semi-natural

A2.1, Scrub - dense/continuous

A2.2, Scrub - scattered

B2.2, Neutral grassland - semi-improved

C3.1, Other tall herb and fern - ruderal

I1.1.2, Inland cliff - basic

Aerial Assessment Habitats

Broadleaved woodland - semi-natural

Other

Target Note

ES-A	AC	DM	CF	02/10/2019	First Issue
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Project :

Portishead Branch Line
(MetroWest Phase 1)

Drawing :

Figure 8 - Rownham Hill
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 02/10/2019

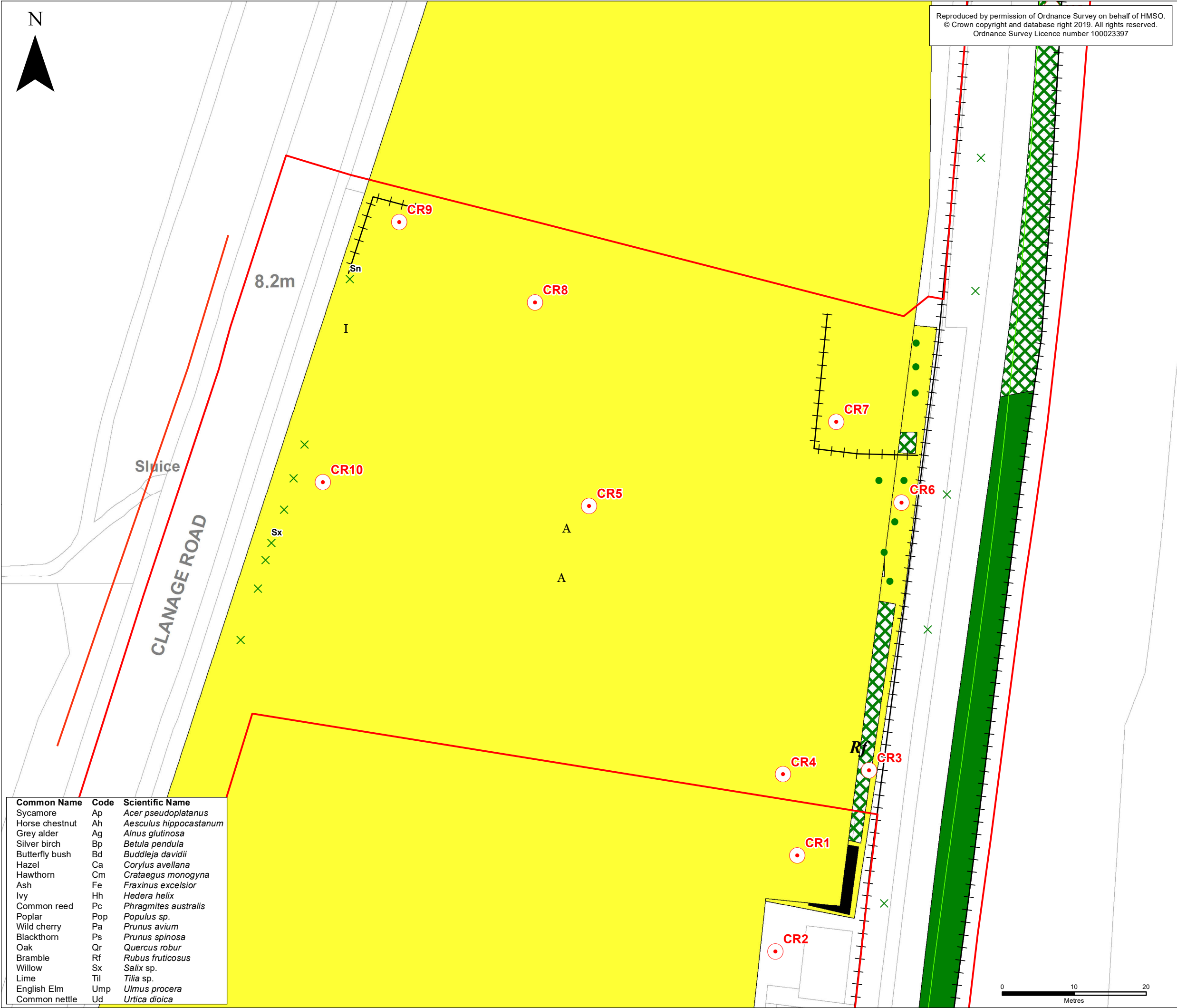
Checked By : Debbie Mackenzie Date: 02/10/2019

Approved By : Carolyn Francis Date: 02/10/2019

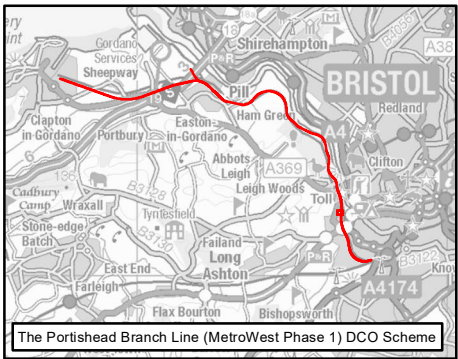
Drawing No. :
674946-016-004-A

Revision
ES-A

Drawing Scale : 1:3,000



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KEY

- Order Limits
- Portishead Branch Line
- The Associated Development Works
- Phase 1 Habitats
 - A2.2, Scrub - scattered
 - A3.1, Broadleaved Parkland/scattered trees
 - J2.4, Fence
 - J2.5, Wall
 - A1.1.1, Broadleaved woodland - semi-natural
 - A2.1, Scrub - dense/continuous
 - B4, Improved grassland
 - C3.1, Other tall herb and fern - ruderal
 - J1.2, Cultivated/disturbed land - amenity grassland
 - J3.6, Buildings
 - J4, Bare ground
- Aerial Assessment Habitats
- Other
 - Target Note

Rev	By	Chkd	Apprvd	Date	Description
ES-A	AC	DM	CF	02/10/2019	First Issue

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CH2M HILL
Geospatial
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Project : **Portishead Branch Line (MetroWest Phase 1)**

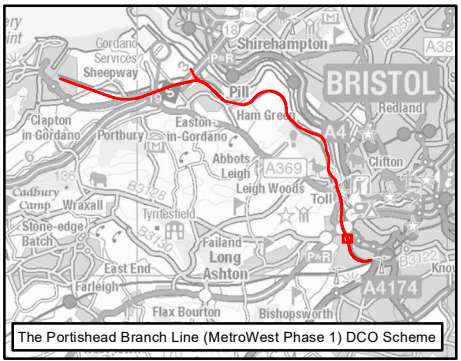
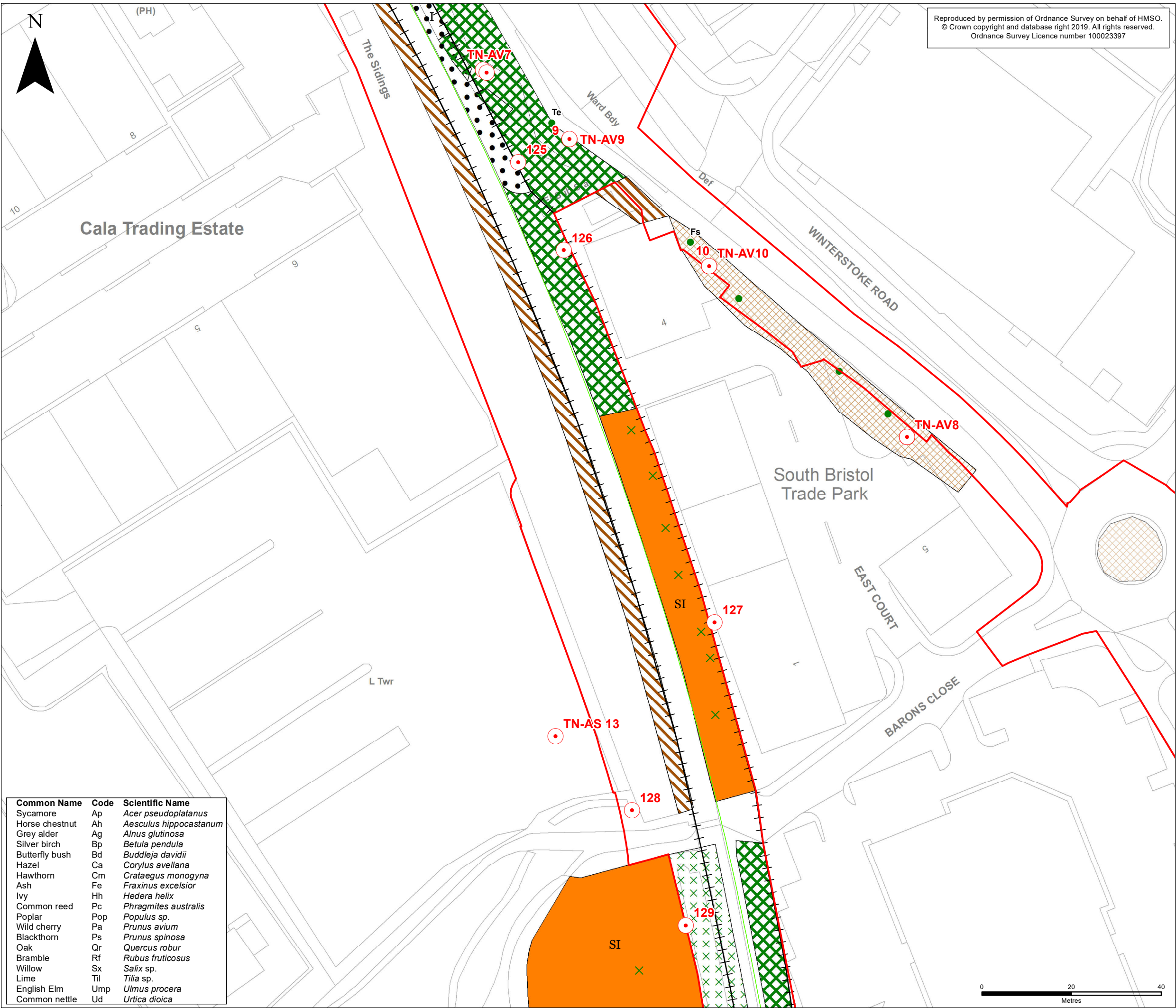
Drawing : **Figure 9 - Clanlage Road Construction Compound**
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 02/10/2019
Checked By : Debbie Mackenzie Date: 02/10/2019
Approved By : Carolyn Francis Date: 02/10/2019

Drawing No. : **674946-016-004-A** Revision **ES-A**

Drawing Scale : 1:500

Common Name	Code	Scientific Name
Sycamore	Ap	<i>Acer pseudoplatanus</i>
Horse chestnut	Ah	<i>Aesculus hippocastanum</i>
Grey alder	Ag	<i>Alnus glutinosa</i>
Silver birch	Bp	<i>Betula pendula</i>
Butterfly bush	Bd	<i>Buddleja davidii</i>
Hazel	Ca	<i>Corylus avellana</i>
Hawthorn	Cm	<i>Crataegus monogyna</i>
Ash	Fe	<i>Fraxinus excelsior</i>
Ivy	Hh	<i>Hedera helix</i>
Common reed	Pc	<i>Phragmites australis</i>
Poplar	Pop	<i>Populus sp.</i>
Wild cherry	Pa	<i>Prunus avium</i>
Blackthorn	Ps	<i>Prunus spinosa</i>
Oak	Qr	<i>Quercus robur</i>
Bramble	Rf	<i>Rubus fruticosus</i>
Willow	Sx	<i>Salix sp.</i>
Lime	Til	<i>Tilia sp.</i>
English Elm	Ump	<i>Ulmus procera</i>
Common nettle	Ud	<i>Urtica dioica</i>



KEY

Order Limits

Portishead Branch Line

The Associated Development Works

Phase 1 Habitats

- A2.2, Scrub - scattered
- A3.1, Broadleaved Parkland/scattered trees
- J2.4, Fence
- A2.1, Scrub - dense/continuous
- A2.2, Scrub - scattered
- B2.2, Neutral grassland - semi-improved
- B4, Improved grassland
- C3.1, Other tall herb and fern - ruderal
- J1.4, Introduced shrub
- J4, Bare ground

Aerial Assessment Habitats

Introduced shrub

Other

Target Note

ES-A	AC	DM	CF	02/10/2019	First Issue
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Project :

Portishead Branch Line
(MetroWest Phase 1)

Drawing :

Figure 10 - Ashton Vale Construction
Compound (sheet 2 of 2)
APFP Regulation 5(2)(a)

Drawn By : Andy Collinson Date: 02/10/2019

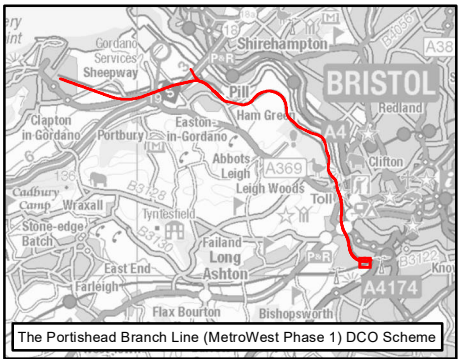
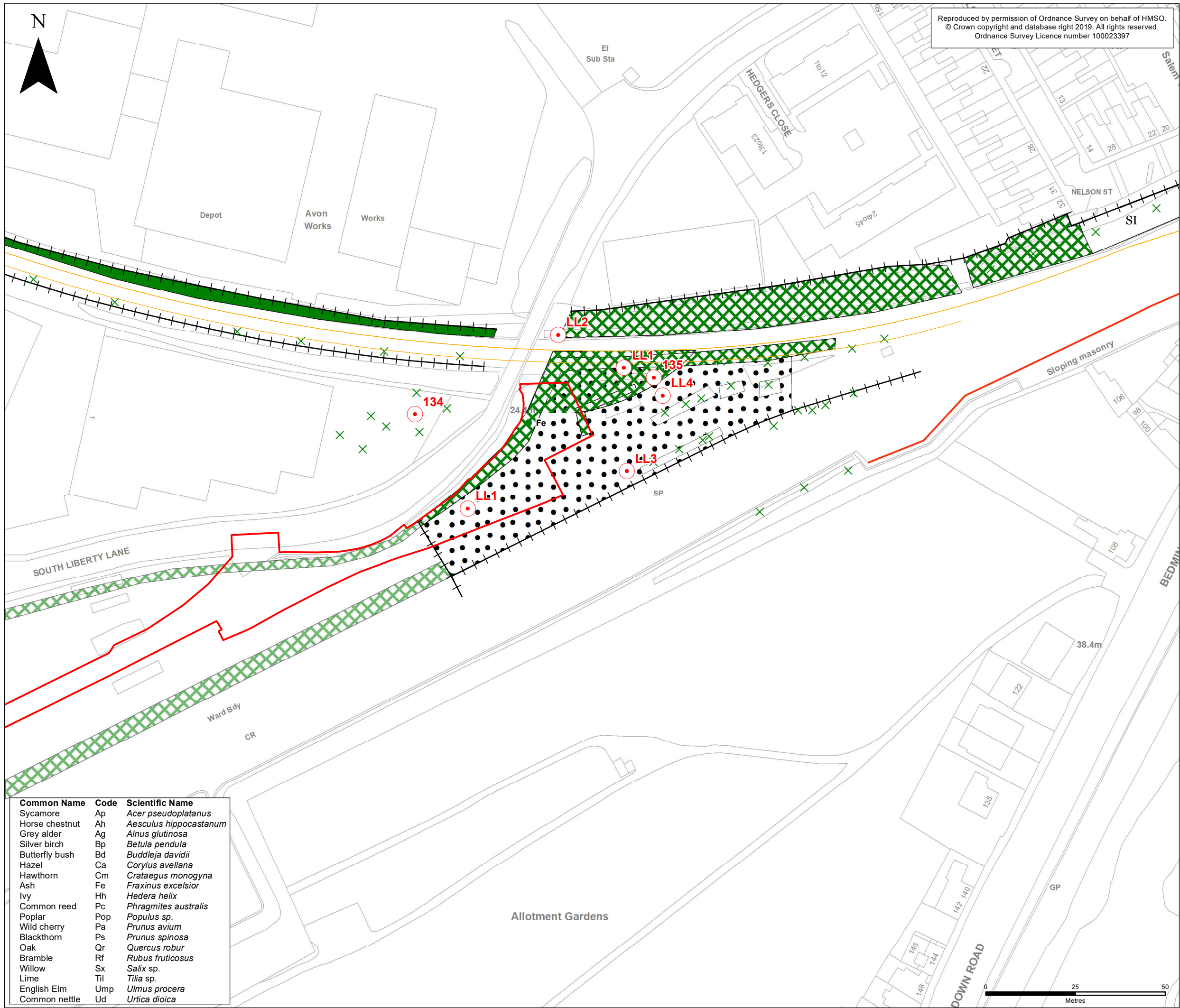
Checked By : Debbie Mackenzie Date: 02/10/2019

Approved By : Carolyn Francis Date: 02/10/2019

Drawing No. :
674946-016-004-A

Revision
ES-A

Drawing Scale : 1:800



KEY

Order Limits

Other Works

Network Rail Permitted Development Rights

Phase 1 Habitats

x A2.2, Scrub - scattered

● A3.1, Broadleaved Parkland/scattered trees

J2.4, Fence

J2.5, Wall

A1.1.1, Broadleaved woodland - semi-natural

A2.1, Scrub - dense/continuous

B6, Poor semi-improved grassland

J4, Bare ground

Aerial Assessment Habitats

Scrub - dense/continuous

Other

Target Note

ES-A	AC	DM	CF	02/10/2019	First Issue
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Project : **Portishead Branch Line (MetroWest Phase 1)**

Drawing : **Figure 11 - South Liberty Lane
APFP Regulation 5(2)(a)**

Drawn By :	Andy Collinson	Date:	02/10/2019
Checked By :	Debbie Mackenzie	Date:	02/10/2019
Approved By :	Carolyn Francis	Date:	02/10/2019

Drawing No. :	674946-016-004-A	Revision	ES-A
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Drawing Scale : 1:1,000