



# MetroWest+

## Portishead Branch Line (MetroWest Phase 1)

TR040011

**Applicant: North Somerset District Council**

**6.24, Environmental Statement, Volume 3, Noise and Vibration Figures 13.1 and 13.2**

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

**Author: CH2M**

**Revision: Version 2**

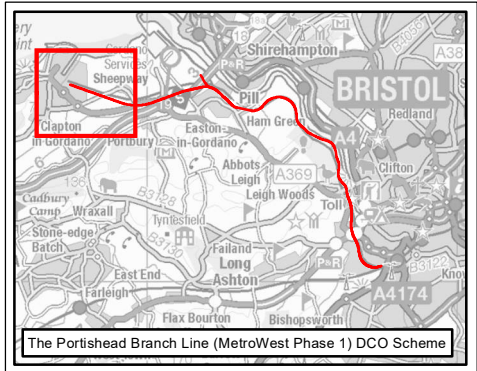
**Date: ~~November~~ March 2021**



**Document Index**

<u>Version</u>	<u>Date</u>	<u>Status</u>	<u>Figure No. and title</u>	<u>Document Index</u>	<u>Document Revision</u>	<u>Changes</u>
<u>1</u>	<u>November 2019</u>	<u>Application</u>	<u>13.1 Noise Measurement Locations</u>	<u>674946-013-001-A</u>	<u>ES-A</u>	<u>N/A</u>
			<u>13.2 Noise Assessment Locations</u>	<u>674946-001-020-A</u>	<u>ES-A</u>	<u>N/A</u>
<u>2</u>	<u>March 2021</u>	<u>Revised design</u>	<u>13.1 Noise Measurement Locations</u>	<u>674946-013-001-A</u>	<u>ES-B</u>	<u>Sheet 2 of 5: Update Order limits</u>
			<u>13.2 Noise Assessment Locations</u>	<u>674946-001-020-A</u>	<u>ES-B</u>	<u>Sheets 3 and 4 of 11: Update Order limits</u>

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ST11- Bunting Lane, Portbury Wharf Nature reserve	
L <sub>Aeq,day</sub> dB	L <sub>Aeq,night</sub> dB
46.4	-

ST13- End of Portbury Wharf Nature reserve	
L <sub>Aeq,day</sub> dB	L <sub>Aeq,night</sub> dB
46.8	-

LT6- 28 Conference Avenue	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
46	41.2

LT7- 15 Peartree Field	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
54.2	48.2

LT8- 10 Tydeman Road	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
44.8	38.2

LT12- 14 Peartree Field	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
48.9	43.7

LT15- 16 Tydeman Road	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
49.1	43.3

LT2- Shipway Gate Farm	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
52.8	48.1

LT3- The New House	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
53	49.6

LT4- Springfield Cottage	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
49	45.4

LT5- The Bungalow	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
53	49.4

LT13- Old Station House	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
55.2	51.8

ST1- Tansy Lane, Portishead	
L <sub>Aeq,day</sub> dB	L <sub>Aeq,night</sub> dB
52.5	42.5

ST2- Tydeman Road, Portishead	
L <sub>Aeq,day</sub> dB	L <sub>Aeq,night</sub> dB
51	46.1

ST3- Portbury Wharf Nature reserve, Sheepway	
L <sub>Aeq,day</sub> dB	L <sub>Aeq,night</sub> dB
50.6	45.3

ST12- Wharf Lane, Portbury Wharf Nature reserve	
L <sub>Aeq,day</sub> dB	L <sub>Aeq,night</sub> dB
50.4	-

- KEY**
- Order Limits
  - Local Authority Boundary
- Environmental Constraints**
- Site of Special Scientific Interest (SSSI)
  - North Somerset Wildlife Site (NSWS)
  - Ramsar Site
  - Special Protection Area (SPA)
  - Portbury Wharf Nature Reserve
- Portishead Branch Line**
- The Nationally Significant Infrastructure Project (NSIP) Works
  - New Station
- Noise Measurement Locations**
- Long Term Measurement Location
  - Short Term Measurement Location

ES-B	MPC	LA	CF	04/03/2021	Revised Order Limits
ES-A	MPC	LA	CF	28/10/2019	First draft
Rev	By	Chkd	Aprvd	Date	Description

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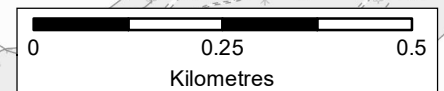
Project: **Portishead Branch Line (MetroWest Phase 1)**

Drawing: **Figure 13.1: Noise Measurement Locations Sheet 1 of 5 - Portishead to Portbury APFP Regulation 5(2)(a)**

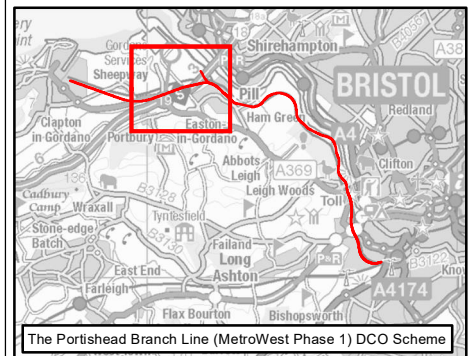
Drawn By: Martin Costello Date: 04/03/2021  
Checked By: Laura Anastasiades Date: 04/03/2021  
Approved By: Carolyn Francis Date: 04/03/2021

Drawing No.: **674946-013-001-A** Revision: **ES-B**

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**KEY**

- Order Limits
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- Ramsar Site
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- Existing Railway Line
- Portishead Branch Line**
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- The Associated Development Works
- New Station
- Long Term Measurement Location
- Short Term Measurement Location

Rev	By	Chkd	Apprv	Date	Description
ES-B	MPC	LA	CF	04/03/2021	Revised Order Limits
ES-A	MPC	LA	CF	28/10/2019	First draft

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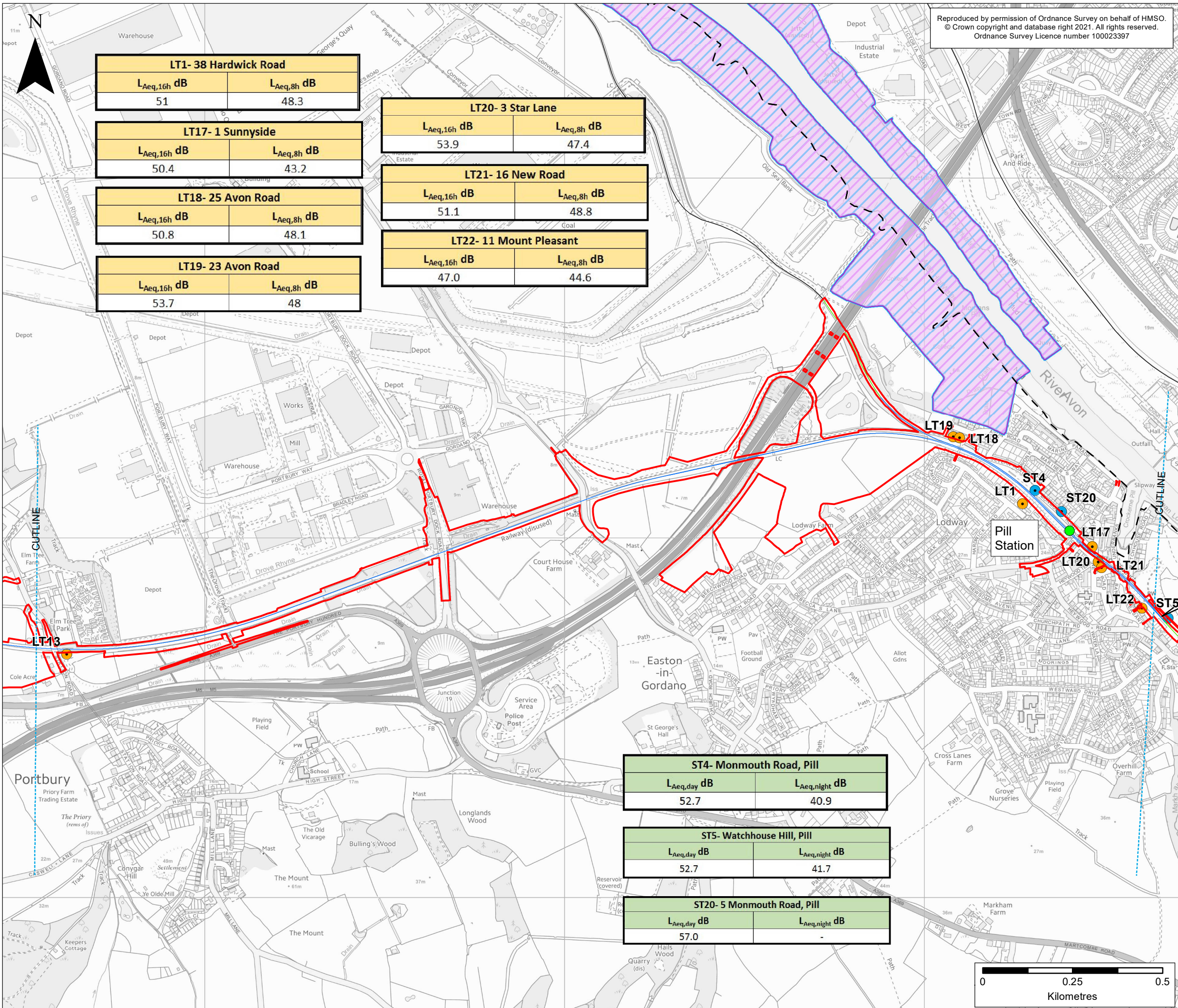
**Project:** Portishead Branch Line (MetroWest Phase 1)

**Drawing:** Figure 13.1: Noise Measurement Locations Sheet 2 of 5 - Portbury to Pill APFP Regulation 5(2)(a)

**Drawn By:** Martin Costello **Date:** 04/03/2021  
**Checked By:** Laura Anastasiades **Date:** 04/03/2021  
**Approved By:** Carolyn Francis **Date:** 04/03/2021

**Drawing No.:** 674946 -013-002-A **Revision:** ES-B

**Drawing Scale:** 1:10,000 @ A3



LT1- 38 Hardwick Road	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
51	48.3

LT17- 1 Sunnyside	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
50.4	43.2

LT18- 25 Avon Road	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
50.8	48.1

LT19- 23 Avon Road	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
53.7	48

LT20- 3 Star Lane	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
53.9	47.4

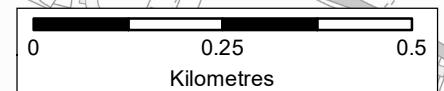
LT21- 16 New Road	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
51.1	48.8

LT22- 11 Mount Pleasant	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
47.0	44.6

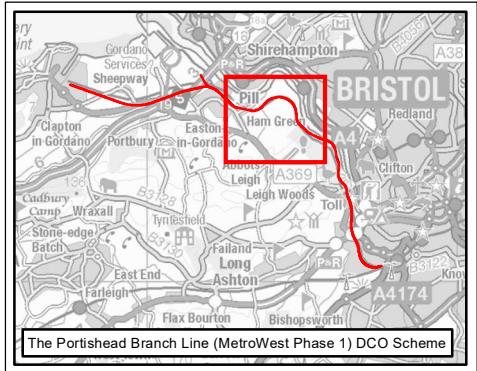
ST4- Monmouth Road, Pill	
L <sub>Aeq,day</sub> dB	L <sub>Aeq,night</sub> dB
52.7	40.9

ST5- Watchhouse Hill, Pill	
L <sub>Aeq,day</sub> dB	L <sub>Aeq,night</sub> dB
52.7	41.7

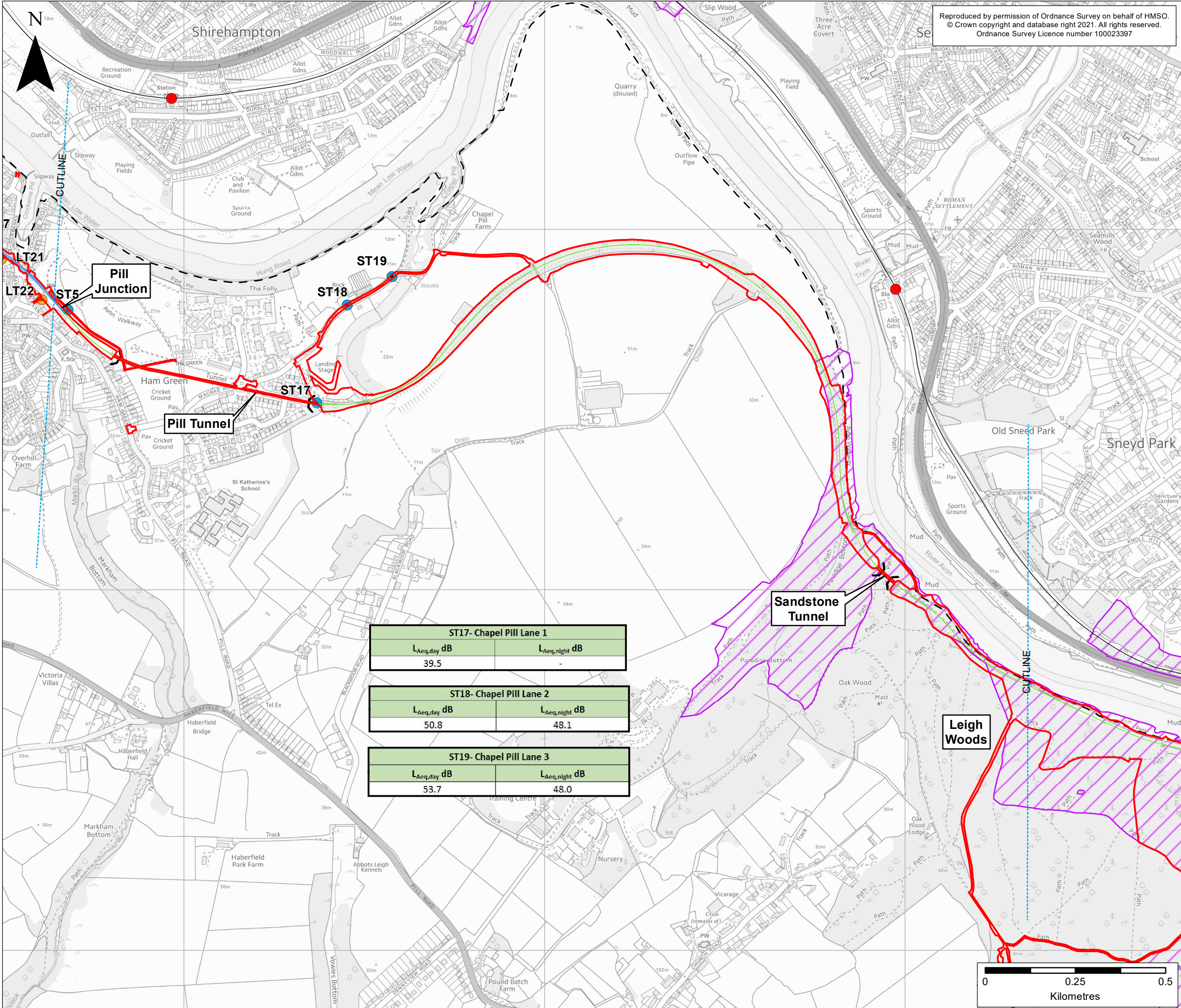
ST20- 5 Monmouth Road, Pill	
L <sub>Aeq,day</sub> dB	L <sub>Aeq,night</sub> dB
57.0	-



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The Portishead Branch Line (MetroWest Phase 1) DCO Scheme



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  - Local Authority Boundary
- Environmental Constraints**
- Site of Special Scientific Interest (SSSI)
- Existing Railway**
- Existing Railway Line
  - Existing Railway Station
- Portishead Branch Line**
- The Nationally Significant Infrastructure Project (NSIP) Works
  - The Associated Development Works
  - Section in Tunnel
- Noise Measurement Locations**
- Long Term Measurement Location
  - Short Term Measurement Location

ES-B	MPC	LA	CF	04/03/2021	Revised Order Limits
ES-A	MPC	LA	CF	28/10/2019	First draft
Rev	By	Chkd	Aprvd	Date	Description

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

**Drawing:** Figure 13.1: Noise Measurement Locations  
 Sheet 3 of 5 - Pill to Leigh Woods  
 APFP Regulation 5(2)(a)

**Drawn By:** Martin Costello **Date:** 04/03/2021  
**Checked By:** Laura Anastasiades **Date:** 04/03/2021  
**Approved By:** Carolyn Francis **Date:** 04/03/2021

**Drawing No.:** 674946 -013-003-A **Revision:** ES-B

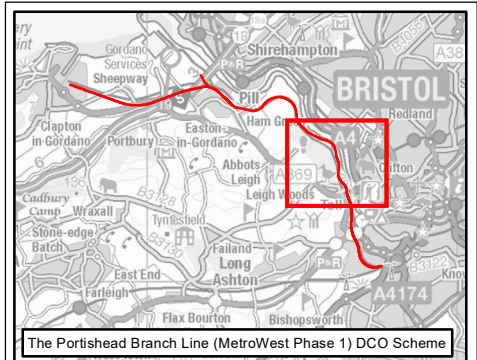
**Drawing Scale:** 1:10,000 @ A3

ST17- Chapel Pill Lane 1	
<b>L<sub>Aeq,day</sub> dB</b>	<b>L<sub>Aeq,night</sub> dB</b>
39.5	-

ST18- Chapel Pill Lane 2	
<b>L<sub>Aeq,day</sub> dB</b>	<b>L<sub>Aeq,night</sub> dB</b>
50.8	48.1

ST19- Chapel Pill Lane 3	
<b>L<sub>Aeq,day</sub> dB</b>	<b>L<sub>Aeq,night</sub> dB</b>
53.7	48.0

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**KEY**

- Order Limits
- Local Authority Boundary

**Environmental Constraints**

- Site of Special Scientific Interest (SSSI)

**Existing Railway**

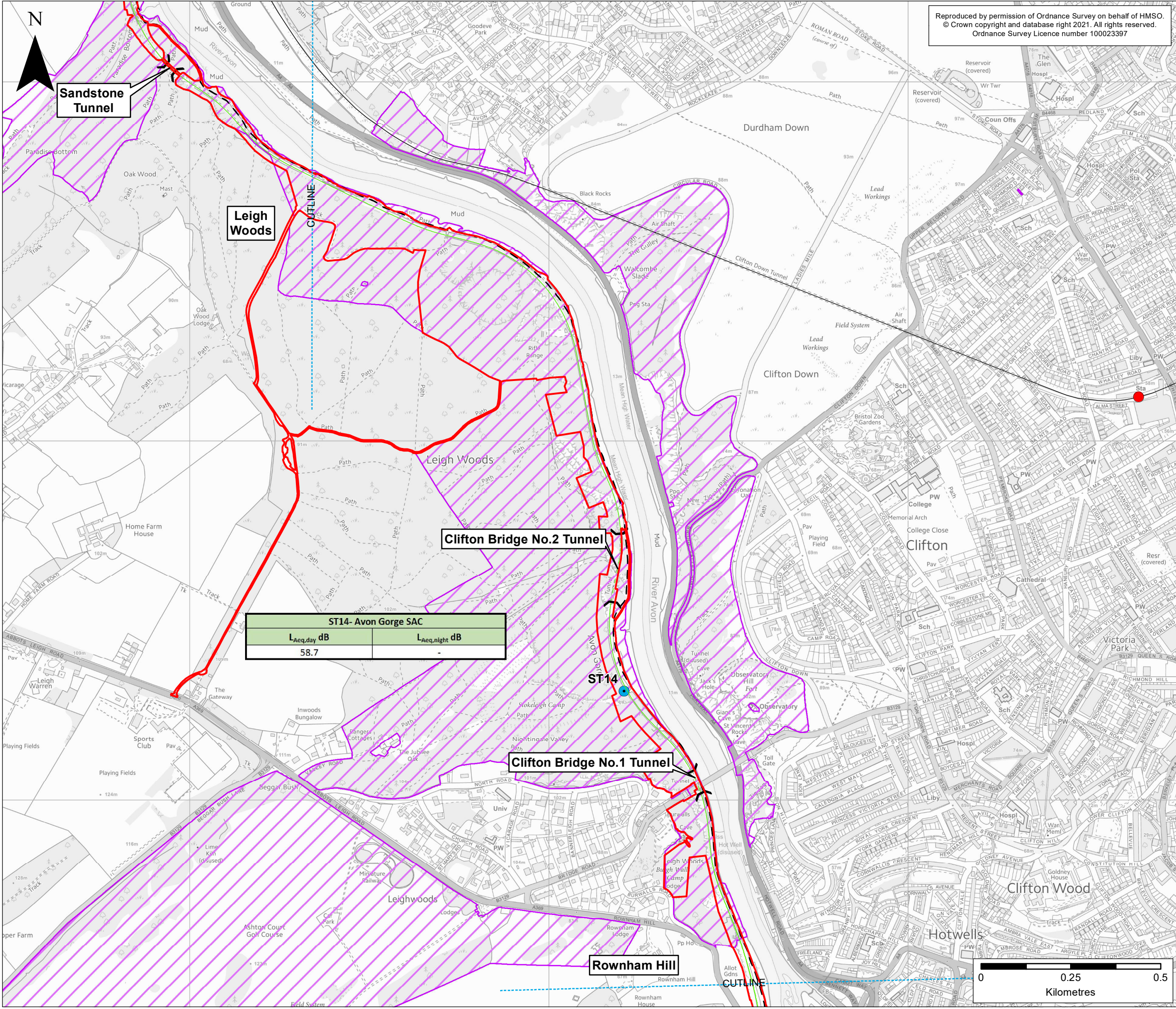
- Existing Railway Line
- Existing Railway Station

**Portishead Branch Line**

- The Associated Development Works
- Section in Tunnel

**Noise Measurement Locations**

- Short Term Measurement Location



ST14- Avon Gorge SAC	
$L_{Aeq,day}$ dB	$L_{Aeq,night}$ dB
58.7	-

Rev	By	Chkd	Apprv	Date	Description
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ES-A	MPC	LA	CF	28/10/2019	First draft

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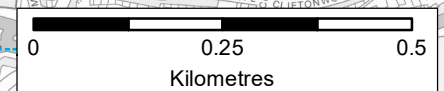
**Project:** Portishead Branch Line (MetroWest Phase 1)

**Drawing:** Figure 13.1: Noise Measurement Locations  
 Sheet 4 of 5 - Leigh Woods to Rownham Hill  
 APFP Regulation 5(2)(a)

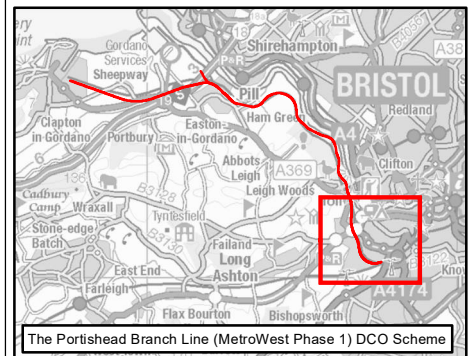
**Drawn By:** Martin Costello **Date:** 04/03/2021  
**Checked By:** Laura Anastasiades **Date:** 04/03/2021  
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**Drawing No.:** 674946 -013-004-A **Revision:** ES-B

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- KEY**
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  - Local Authority Boundary
- Environmental Constraints**
- Site of Special Scientific Interest (SSSI)
- Existing Railway**
- Existing Railway Line
  - Existing Railway Station
- Portishead Branch Line**
- The Associated Development Works
- Other Works**
- Network Rail Permitted Development Rights
- Noise Measurement Locations**
- Long Term Measurement Location
  - Short Term Measurement Location

ST6- Paxton Drive, Parson Street	
L <sub>Aeq,day</sub> dB	L <sub>Aeq,night</sub> dB
54.0	-

LT9- 61 Swiss Drive	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
50.7	44.6

LT10- 56 Ashton Drive	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
49.8	44.5

LT11- 55 Ashton Drive	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
48.9	46.4

LT14- 29 Nelson Street	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
50.5	45.1

LT16- 6 Willada Road	
L <sub>Aeq,16h</sub> dB	L <sub>Aeq,8h</sub> dB
56.6	53.8

Rev	By	Chkd	Apprv	Date	Description
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ES-A	MPC	LA	CF	28/10/2019	First draft

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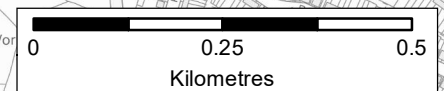
**Project:** Portishead Branch Line (MetroWest Phase 1)

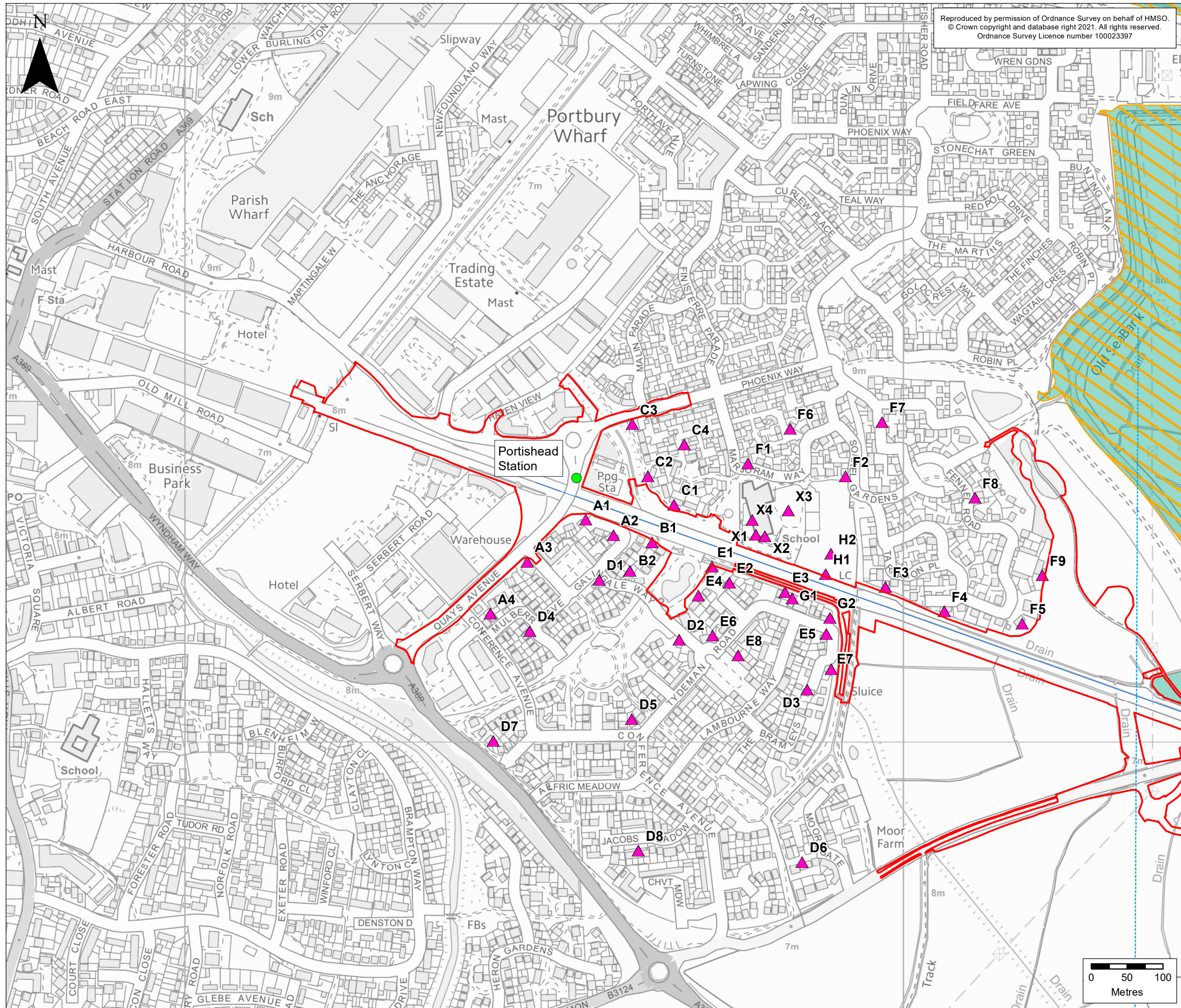
**Drawing:** Figure 13.1: Noise Measurement Locations  
Sheet 5 of 5 - Rowham Hill to Ashton Junction  
*APFP Regulation 5(2)(a)*

**Drawn By:** Martin Costello **Date:** 04/03/2021  
**Checked By:** Laura Anastasiades **Date:** 04/03/2021  
**Approved By:** Carolyn Francis **Date:** 04/03/2021

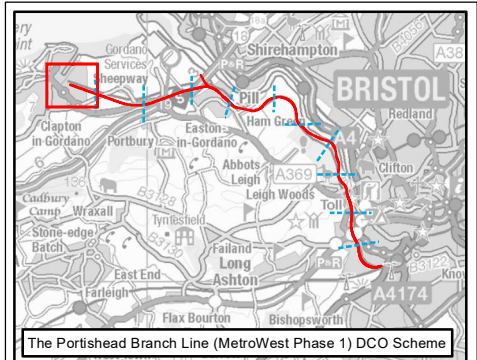
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  - North Somerset Wildlife Site (NSWS)
  - Portbury Wharf Nature Reserve
  - Portishead Branch Line**
  - The Nationally Significant Infrastructure Project (NSIP) Works
  - New Station
  - Noise Assessment**
  - ▲ Noise Assessment

Rev	By	Chkd	Apprvd	Date	Description
ES-B	MPC	RS	CF	04/03/2021	Revised Order Limits
ES-A	MPC	RS	CF	28/10/2019	First draft

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

**Drawing :** Figure 13.2: Noise Assessment Locations Sheet 1 of 11 - Portishead APFP Regulation 5(2)(a)

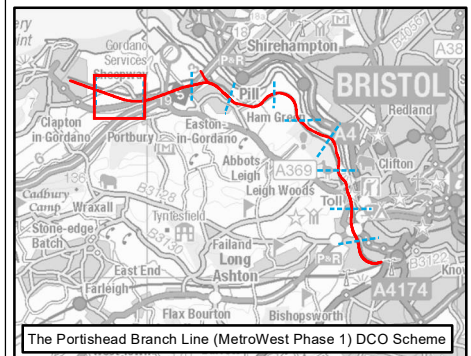
**Drawn By :** Martin Costello **Date:** 04/03/2021  
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**Approved By :** Carolyn Francis **Date:** 04/03/2021

**Drawing No. :** 674946 -001-020-A **Revision** ES-B

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Rev	By	Chkd	Apprvd	Date	Description
ES-B	MPC	RS	CF	04/03/2021	Revised Order Limits
ES-A	MPC	RS	CF	28/10/2019	First draft

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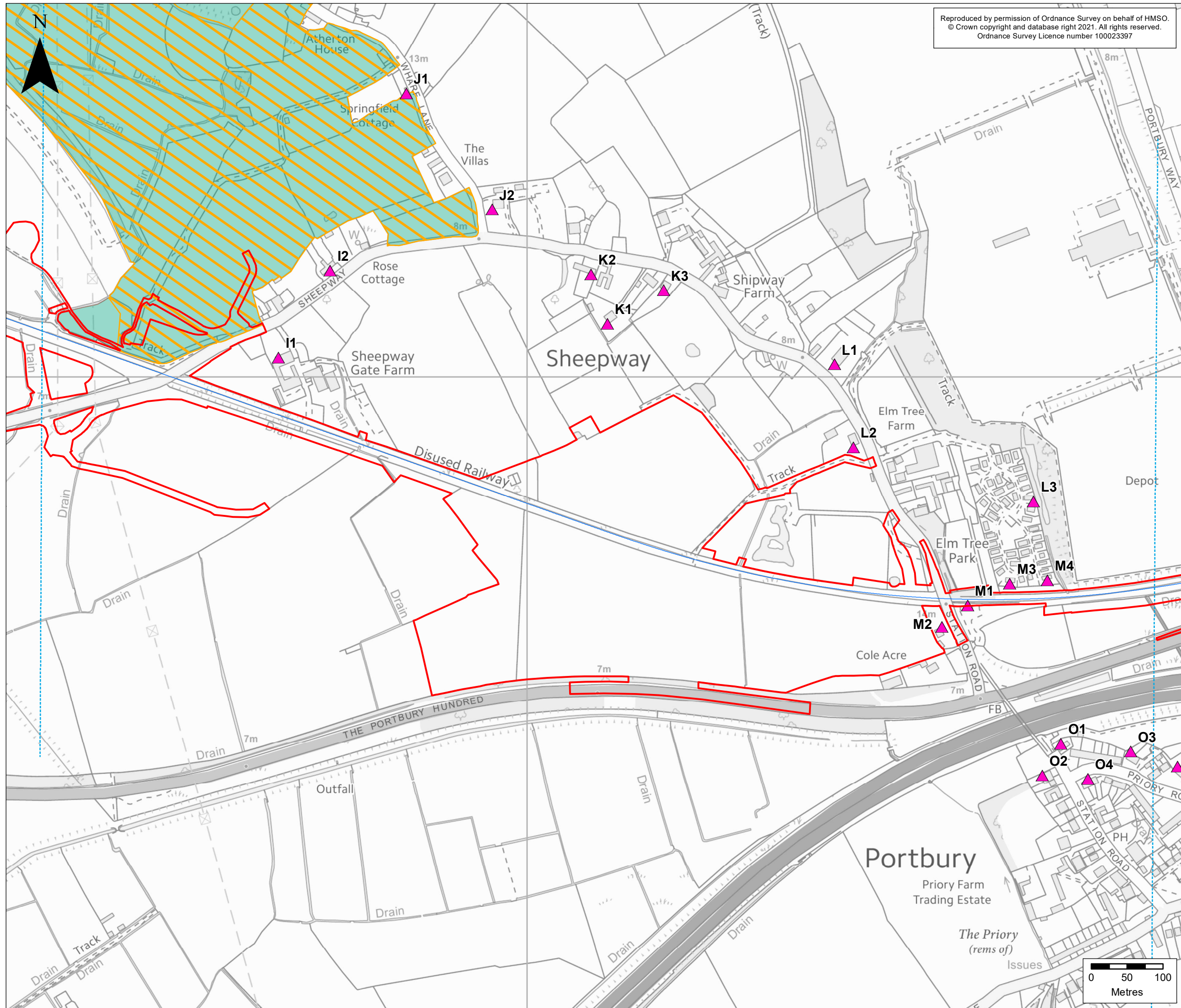
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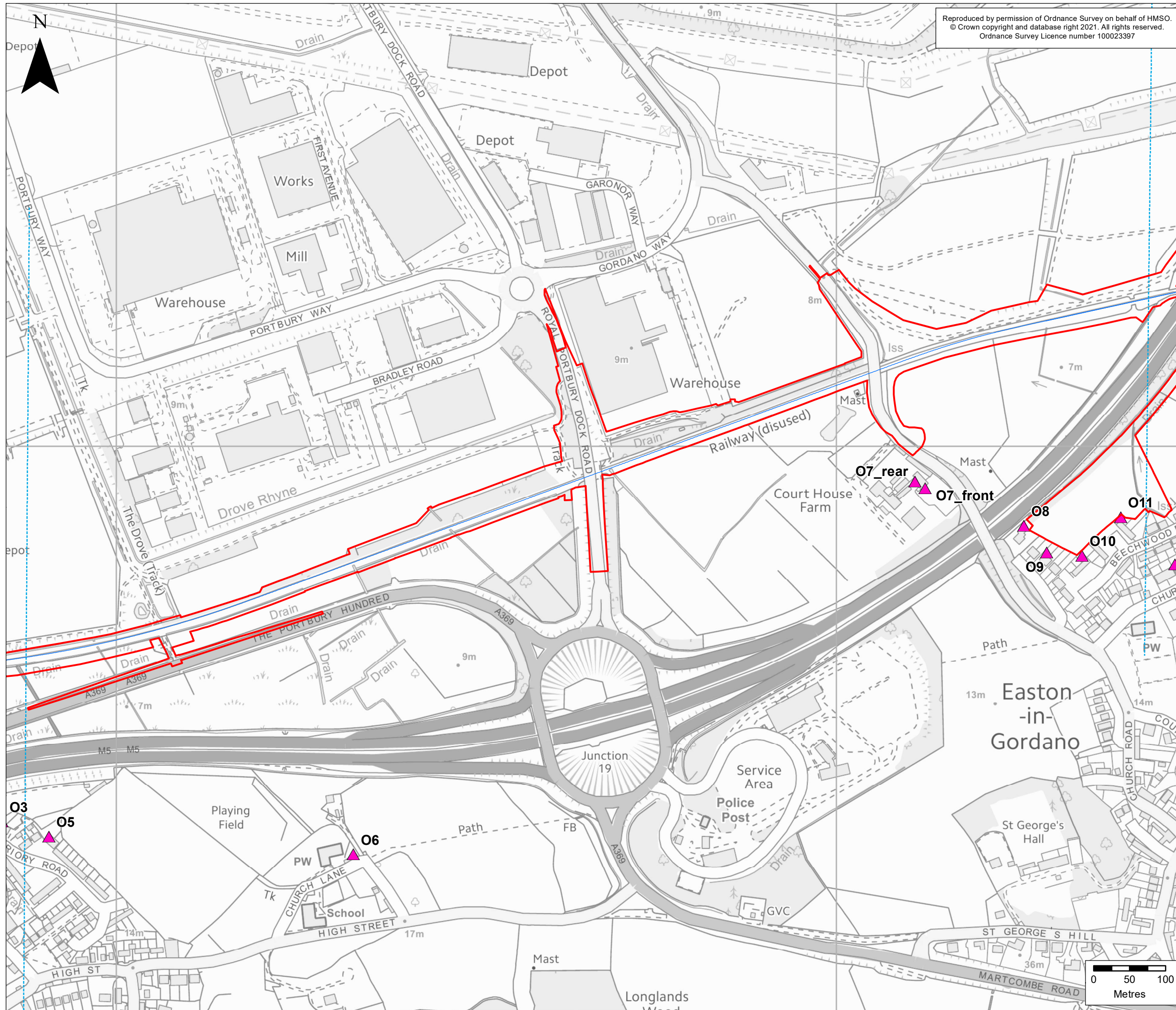
**Project :**  
**Portishead Branch Line (MetroWest Phase 1)**

**Drawing :**  
**Figure 13.2: Noise Assessment Locations Sheet 2 of 11 - Sheepway APFP Regulation 5(2)(a)**

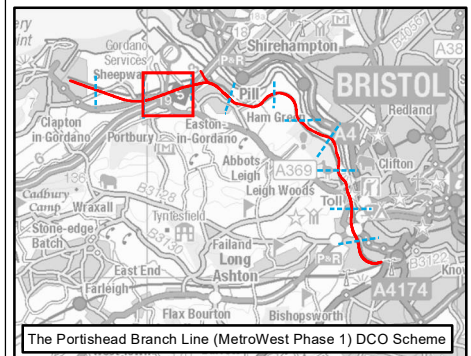
**Drawn By :** Martin Costello **Date:** 04/03/2021  
**Checked By :** Richard Stait **Date:** 04/03/2021  
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- KEY**
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  - ▲ Noise Assessment Locations

Rev	By	Chkd	Apprvd	Date	Description
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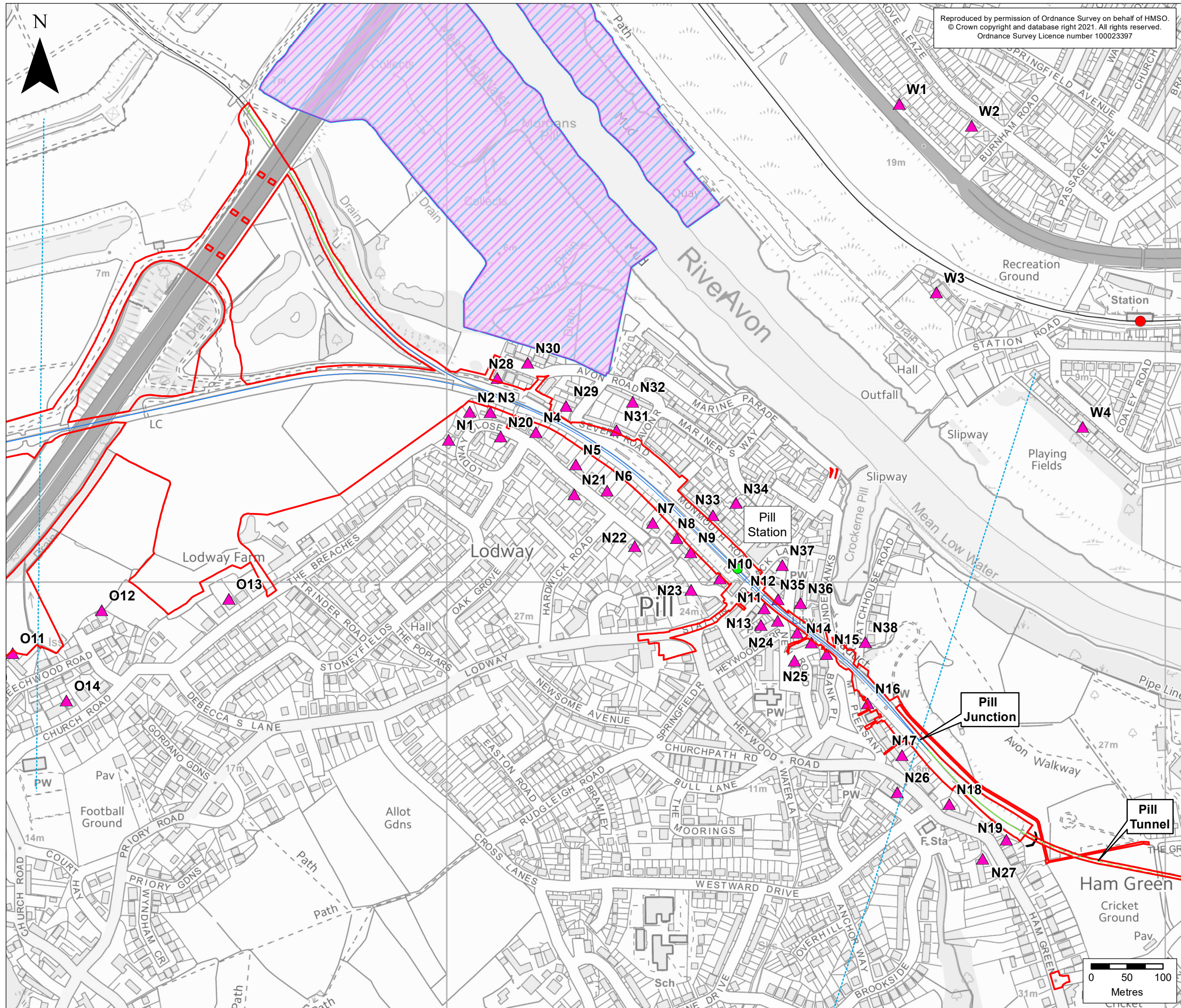
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**Project :** Portishead Branch Line (MetroWest Phase 1)

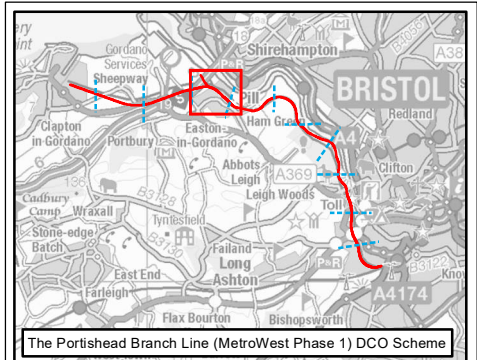
**Drawing :** Figure 13.2: Noise Assessment Locations Sheet 3 of 11 - Junction 19 APFP Regulation 5(2)(a)

**Drawn By :** Martin Costello **Date:** 04/03/2021  
**Checked By :** Richard Stait **Date:** 04/03/2021  
**Approved By :** Carolyn Francis **Date:** 04/03/2021

**Drawing No. :** 674946 -001-020-A **Revision** ES-B  
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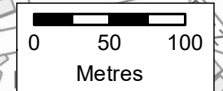
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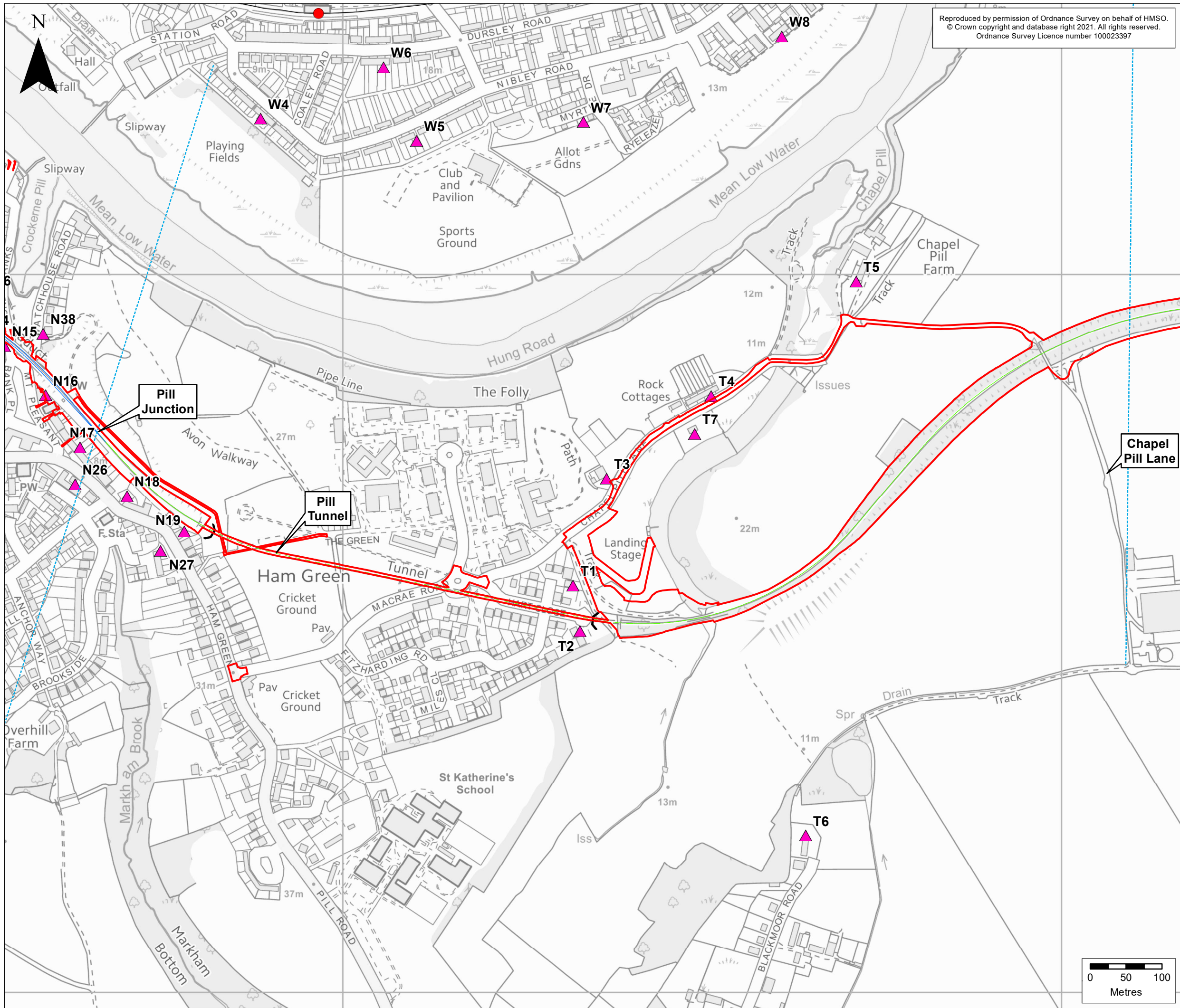
**Project:** Portishead Branch Line (MetroWest Phase 1)

**Drawing:** Figure 13.2: Noise Assessment Locations Sheet 4 of 11 - Pill APFP Regulation 5(2)(a)

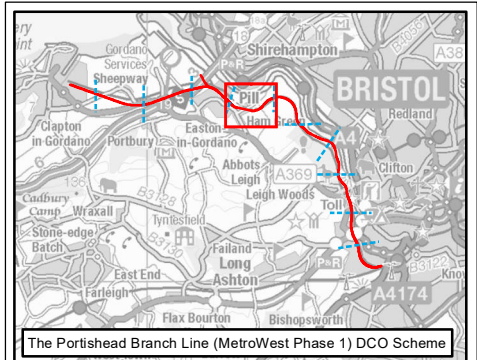
**Drawn By:** Martin Costello **Date:** 04/03/2021  
**Checked By:** Richard Stait **Date:** 04/03/2021  
**Approved By:** Carolyn Francis **Date:** 04/03/2021

**Drawing No.:** 674946 -001-020-A **Revision:** ES-B  
**Drawing Scale:** 1:5,000 @ A3





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**KEY**

- Order Limits
- Portishead Branch Line**
  - The Nationally Significant Infrastructure Project (NSIP) Works
  - The Associated Development
  - Section in Tunnel
- Existing Railway**
  - Existing Railway Line
  - Existing Railway Station
- Noise Assessment**
  - ▲ Noise Assessment

Rev	By	Chkd	Apprvd	Date	Description
ES-B	MPC	RS	CF	04/03/2021	Revised Order Limits
ES-A	MPC	RS	CF	28/10/2019	First draft

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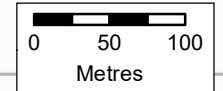
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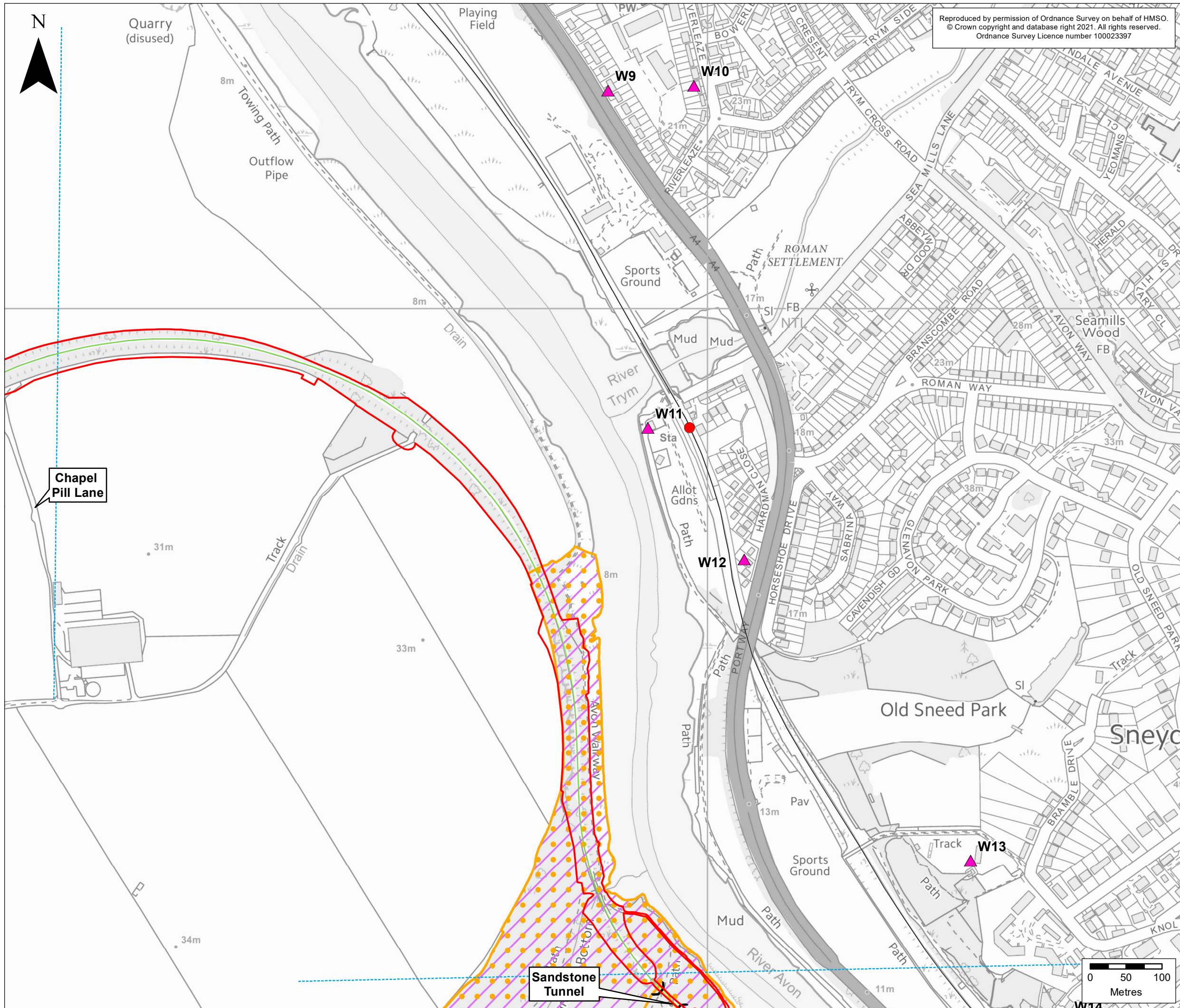
**Project:**  
**Portishead Branch Line (MetroWest Phase 1)**

**Drawing:**  
**Figure 13.2: Noise Assessment Locations Sheet 5 of 11 - Ham Green APFP Regulation 5(2)(a)**

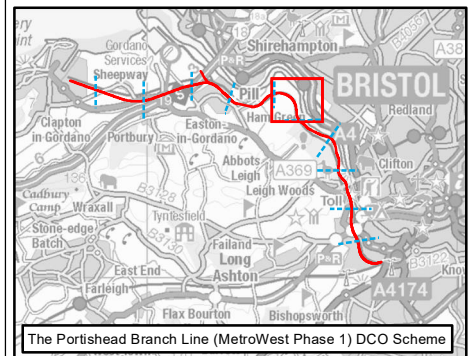
Drawn By : Martin Costello Date: 04/03/2021  
 Checked By : Richard Stait Date: 04/03/2021  
 Approved By : Carolyn Francis Date: 04/03/2021

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**KEY**

- Order Limits
- Environmental Constraints**
- Site of Special Scientific Interest (SSSI)
- Special Area of Conservation (SAC)
- Portishead Branch Line**
- The Associated Development Works
- Existing Railway**
- Existing Railway Line
- Existing Railway Station
- Noise Assessment**
- ▲ Noise Assessment Locations

Rev	By	Chkd	Apprvd	Date	Description
ES-B	MPC	RS	CF	04/03/2021	Revised Order Limits
ES-A	MPC	RS	CF	28/10/2019	First draft

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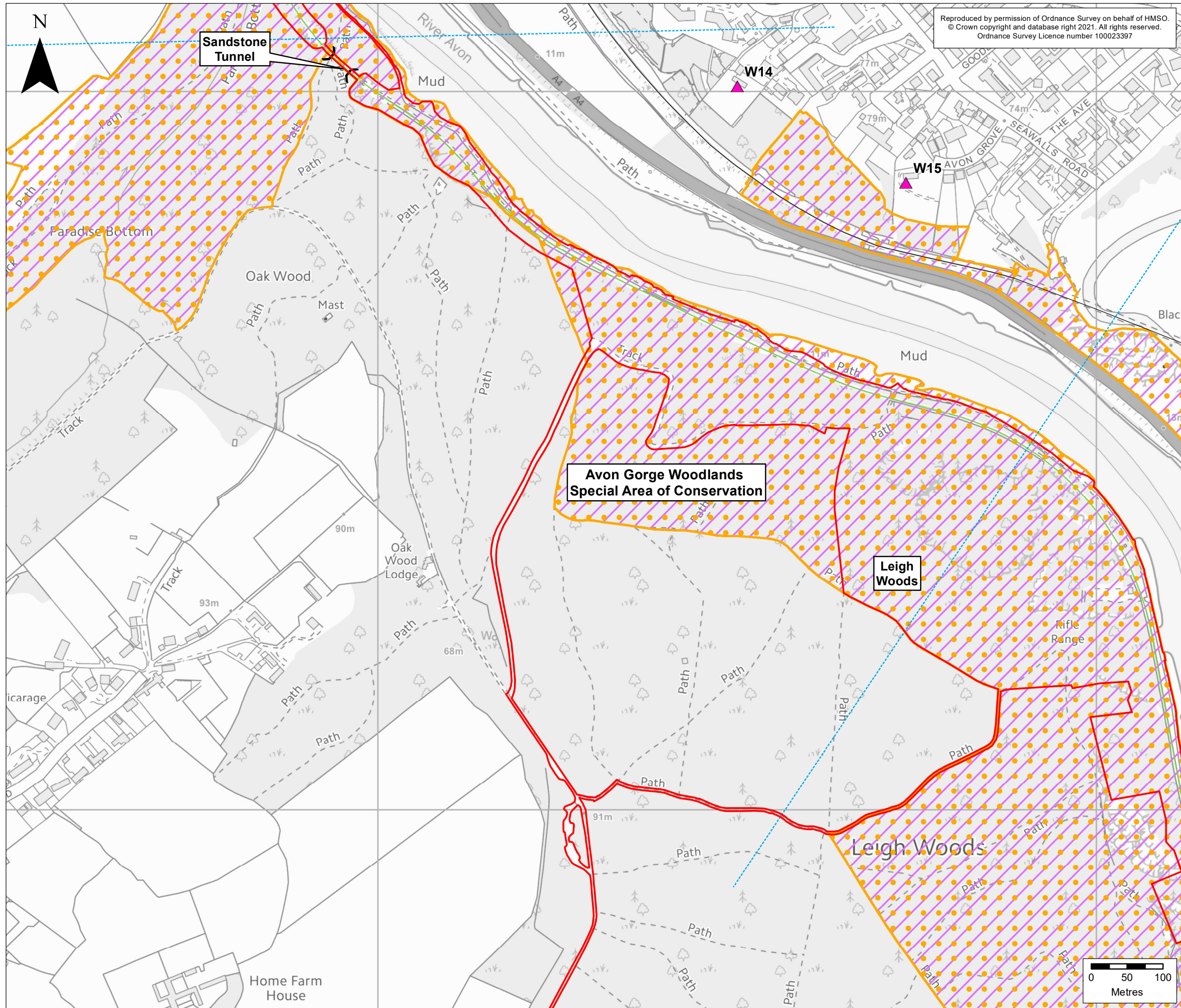
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**Project :**  
 Portishead Branch Line  
 (MetroWest Phase 1)

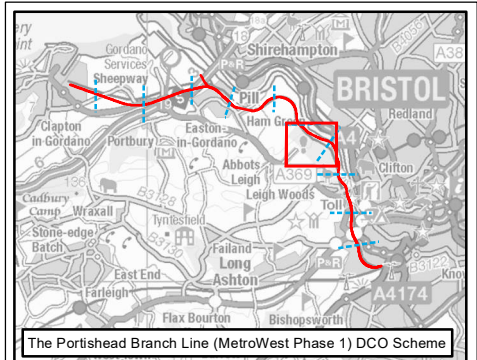
**Drawing :**  
 Figure 13.2: Noise Assessment Locations  
 Sheet 6 of 11 - Chapel Pill  
 APFP Regulation 5(2)(a)

Drawn By : Martin Costello Date: 04/03/2021  
 Checked By : Richard Stait Date: 04/03/2021  
 Approved By : Carolyn Francis Date: 04/03/2021

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**KEY**

- Order Limits
- Environmental Constraints**
- Site of Special Scientific Interest (SSSI)
- Special Area of Conservation
- Portishead Branch Line**
- The Associated Development
- Existing Railway**
- Existing Railway Line
- Noise Assessment**
- ▲ Noise Assessment

Rev	By	Chkd	Apprvd	Date	Description
ES-B	MPC	RS	CF	04/03/2021	Revised Order Limits
ES-A	MPC	RS	CF	28/10/2019	First draft

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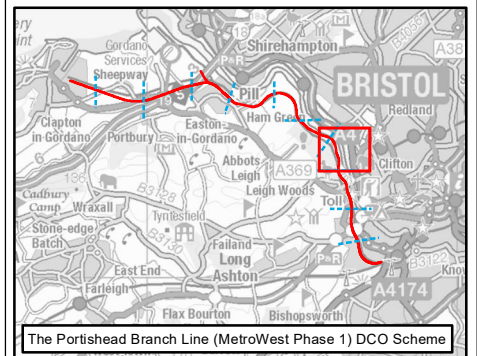
**Project :** Portishead Branch Line (MetroWest Phase 1)

**Drawing :** Figure 13.2: Noise Assessment Locations Sheet 7 of 11 - Leigh Woods (1) APFP Regulation 5(2)(a)

Drawn By : Martin Costello Date: 04/03/2021  
 Checked By : Richard Stait Date: 04/03/2021  
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**KEY**

- Order Limits
- Environmental Constraints**
- Site of Special Scientific Interest (SSSI)
- Special Area of Conservation
- Portishead Branch Line**
- The Associated Development
- Section in Tunnel
- Existing Railway**
- Existing Railway Line
- Noise Assessment**
- ▲ Noise Assessment

Rev	By	Chkd	Apprvd	Date	Description
ES-B	MPC	RS	CF	04/03/2021	Revised Order Limits
ES-A	MPC	RS	CF	28/10/2019	First draft

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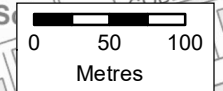
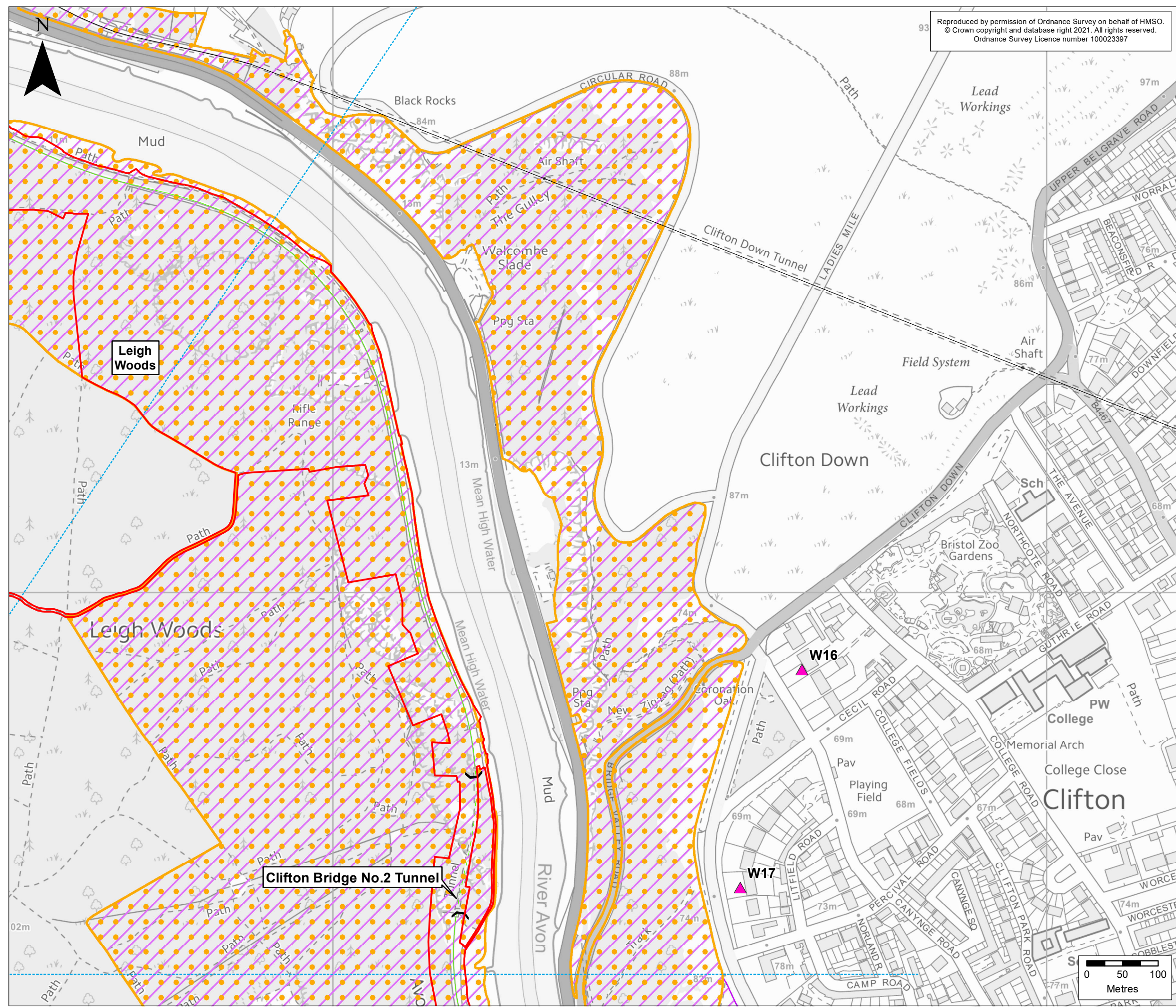
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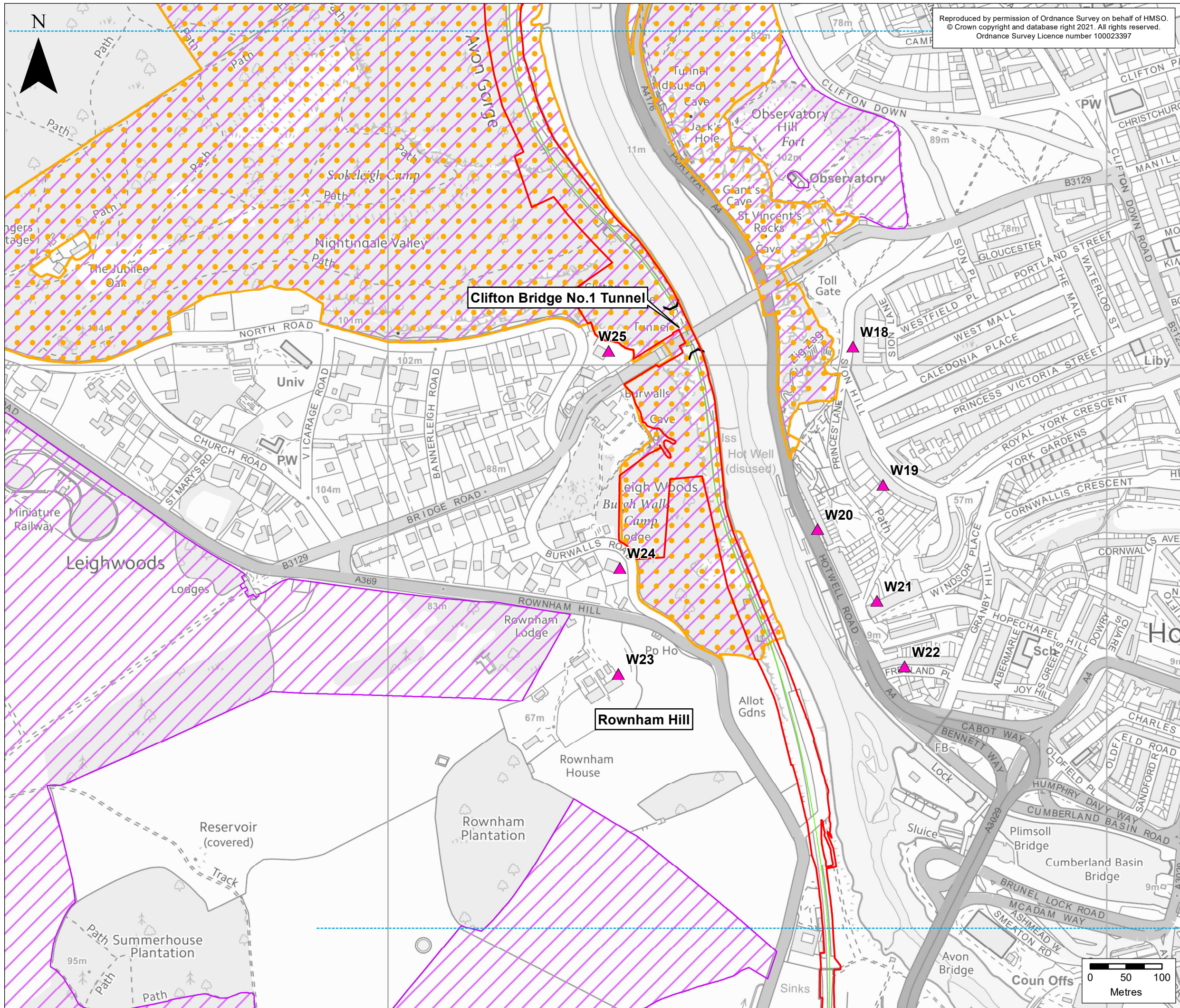
**Project:**  
**Portishead Branch Line (MetroWest Phase 1)**

**Drawing:**  
**Figure 13.2: Noise Assessment Locations Sheet 8 of 11 - Leigh Woods (2) APFP Regulation 5(2)(a)**

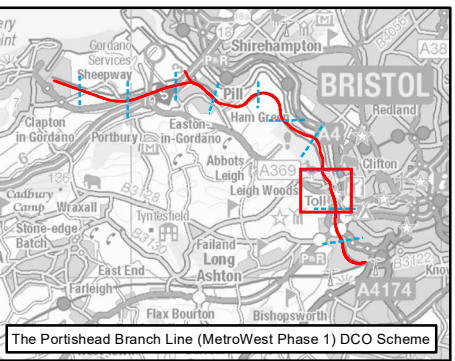
Drawn By: Martin Costello Date: 04/03/2021  
 Checked By: Richard Stait Date: 04/03/2021  
 Approved By: Carolyn Francis Date: 04/03/2021

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**KEY**

- Order Limits
- Environmental Constraints
  - Site of Special Scientific Interest (SSSI)
  - Special Area of Conservation (SAC)
- Portishead Branch Line
  - The Associated Development Works
  - Section in Tunnel
- Noise Assessment
  - Noise Assessment Locations

Rev	By	Chkd	Apprvd	Date	Description
ES-B	MPC	RS	CF	04/03/2021	Revised Order Limits
ES-A	MPC	RS	CF	28/10/2019	First draft

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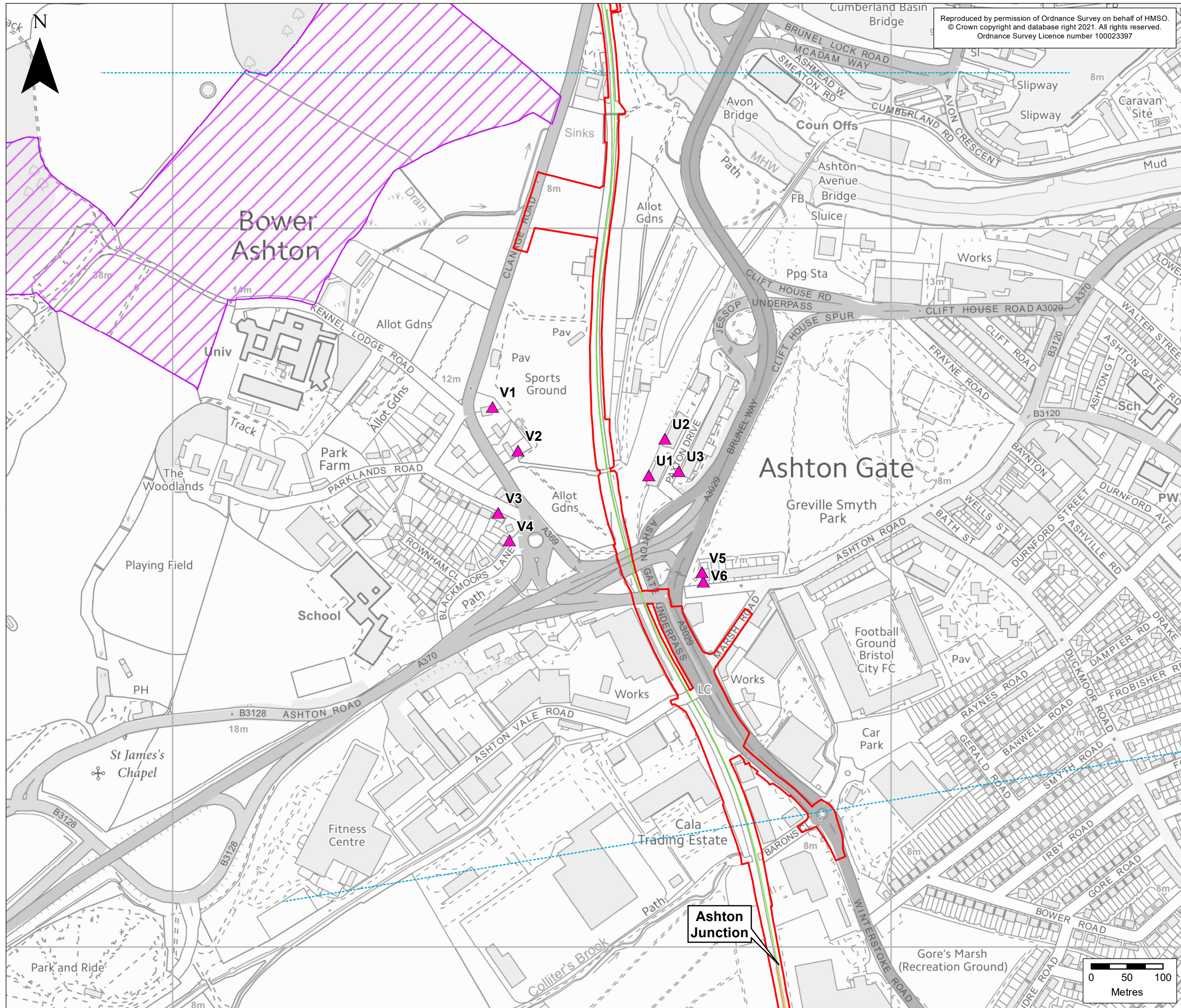
**Project :**  
 Portishead Branch Line (MetroWest Phase 1)

**Drawing :**  
 Figure 13.2: Noise Assessment Locations  
 Sheet 9 of 11 - Leigh Woods (3)  
 APFP Regulation 5(2)(a)

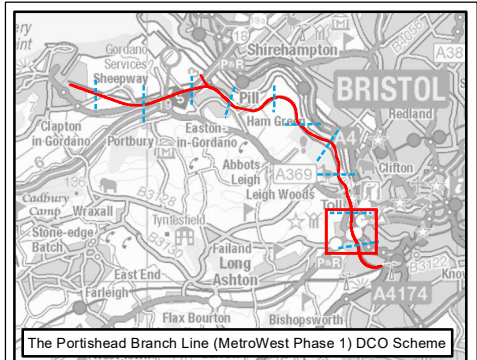
Drawn By : Martin Costello Date: 04/03/2021  
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**KEY**

- Order Limits
- Environmental Constraints
  - Site of Special Scientific Interest (SSSI)
- Portishead Branch Line
  - The Associated Development Works
- Other Works
  - Network Rail Permitted Development Rights
- Noise Assessment
  - Noise Assessment Locations

ES-B	MPC	RS	CF	04/03/2021	Revised Order Limits
ES-A	MPC	RS	CF	28/10/2019	First draft
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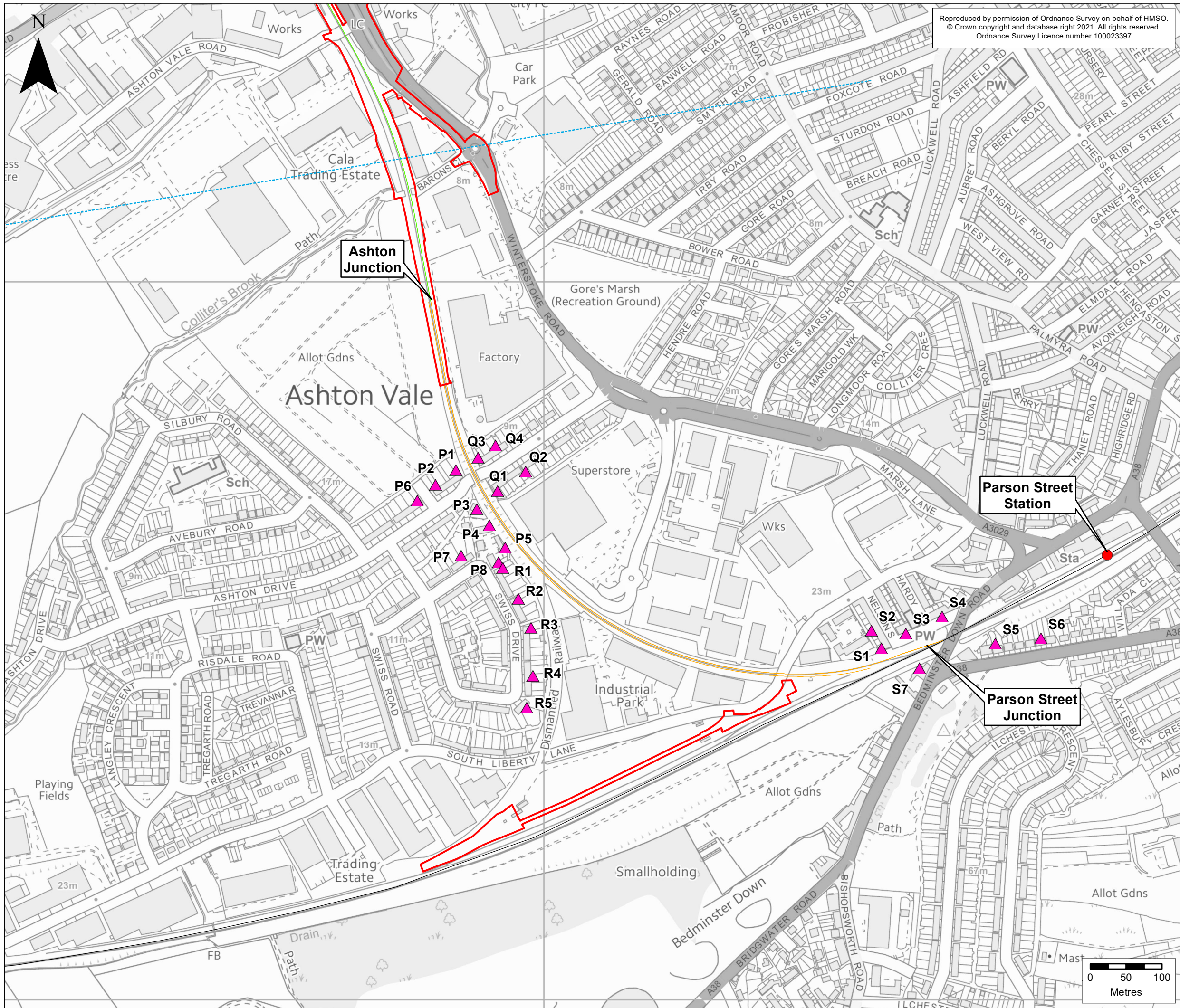
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**Project :**  
 Portishead Branch Line  
 (MetroWest Phase 1)

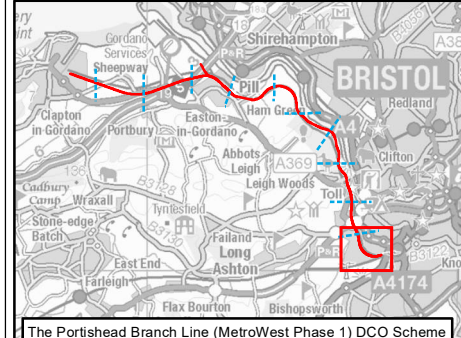
**Drawing :**  
 Figure 13.2: Noise Assessment Locations  
 Sheet 10 of 11 - Ashton Gate  
 APFP Regulation 5(2)(a)

Drawn By : Martin Costello Date: 04/03/2021  
 Checked By : Richard Stait Date: 04/03/2021  
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- KEY**
- Order Limits
  - Portishead Branch Line
  - The Associated Development Works
  - Existing Railway Line
  - Existing Railway Station
  - Other Works
  - Network Rail Permitted Development Rights
  - ▲ Noise Assessment Locations

Rev	By	Chkd	Apprvd	Date	Description
ES-B	MPC	RS	CF	04/03/2021	Revised Order Limits
ES-A	MPC	RS	CF	28/10/2019	First draft

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

Drawing: **Figure 13.2: Noise Assessment Locations Sheet 11 of 11 - Ashton Junction APFP Regulation 5(2)(a)**

Drawn By: Martin Costello Date: 04/03/2021  
 Checked By: Richard Stait Date: 04/03/2021  
 Approved By: Carolyn Francis Date: 04/03/2021

Drawing No.: **674946 -001-020-A** Revision **ES-B**  
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