

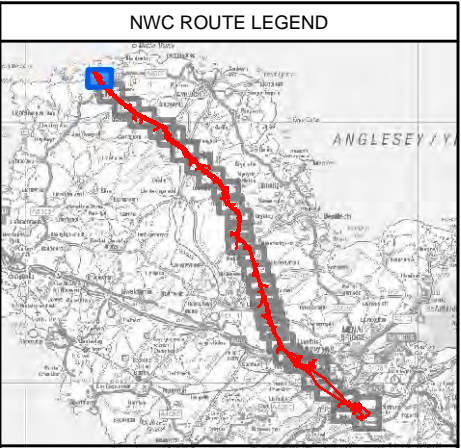
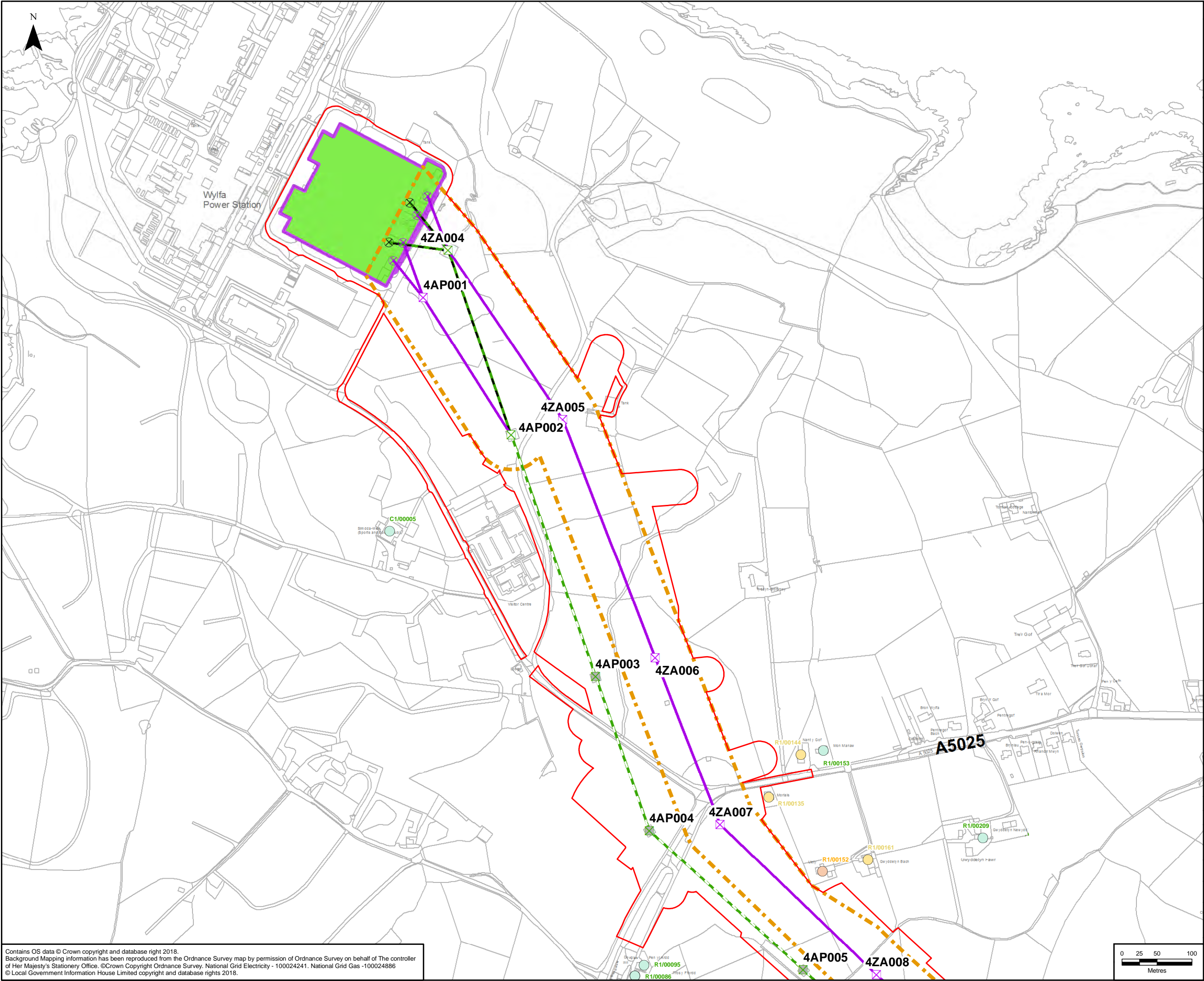
# DOCUMENT 5.16.1.9

## Operational Noise - Residual Effects Chapter 16 - Figure 9

National Grid (North Wales Connection Project)

*Regulation 5(2)(a) including (l) and (m) of the Infrastructure Planning  
(Applications: Prescribed Forms and Procedure) Regulations 2009*





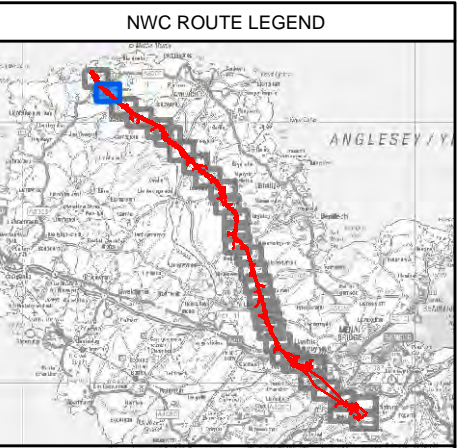
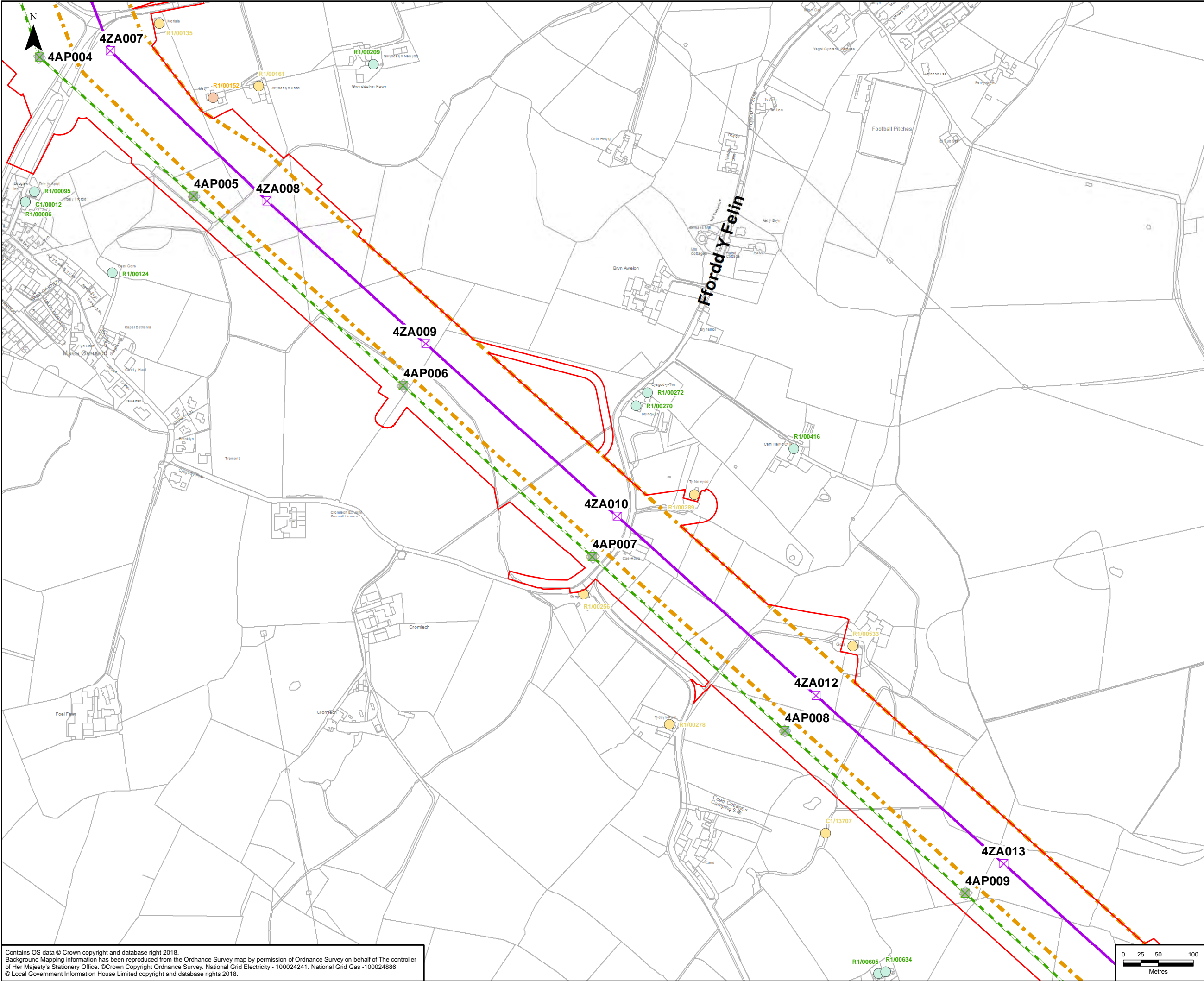
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- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
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A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.1.9					
Document Title: FIGURE 16.9 OPERATIONAL NOISE - RESIDUAL EFFECTS SECTION A					
Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 1 of 31	Rev: A	

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A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
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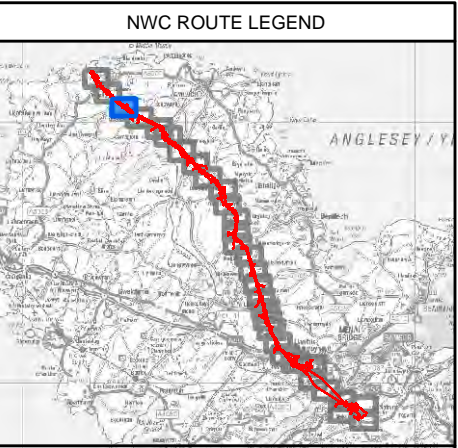
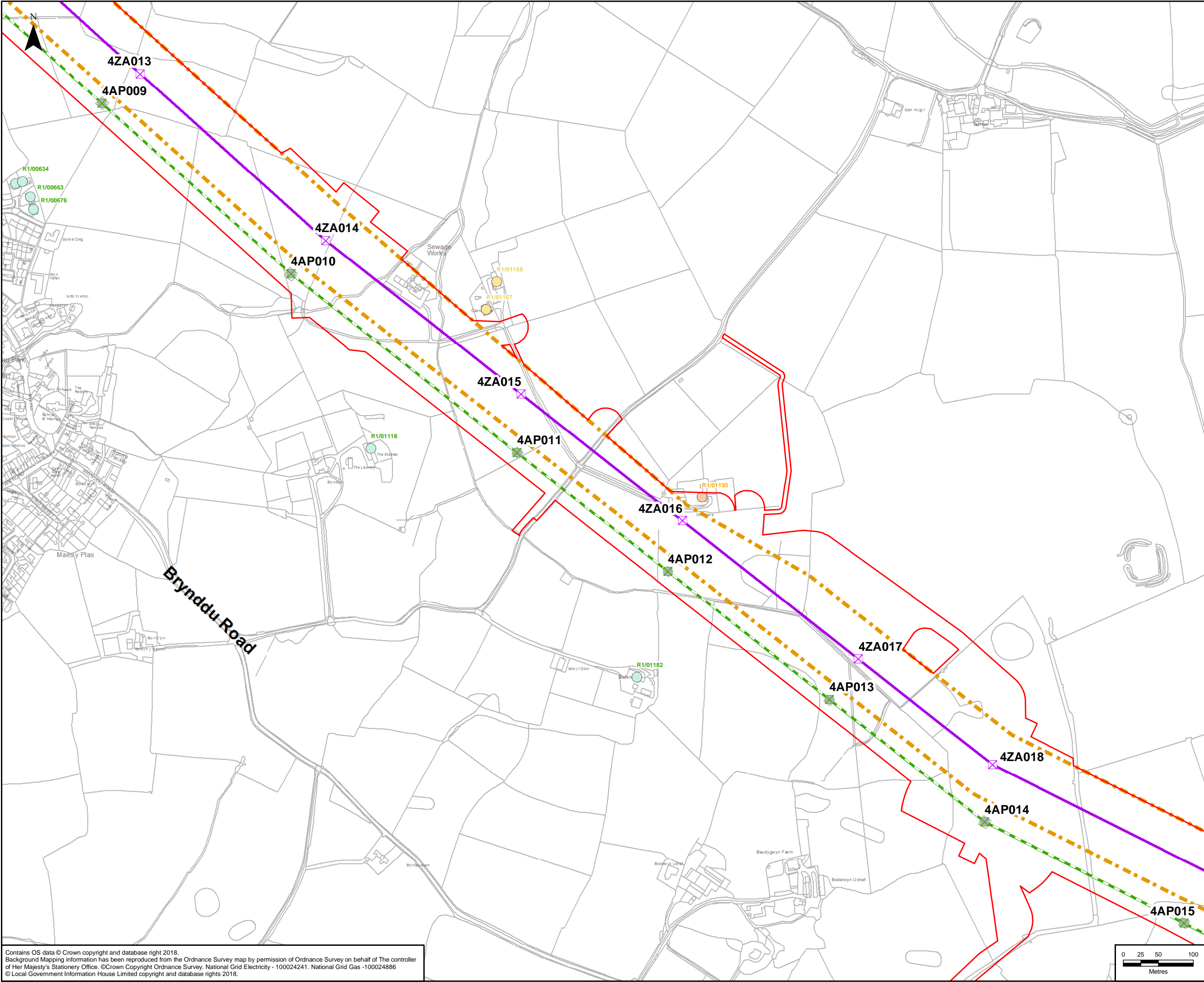
Scheme: NORTH WALES CONNECTION PROJECT

Document Number: 5.16.1.9

Document Title: FIGURE 16.9  
OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION A

Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
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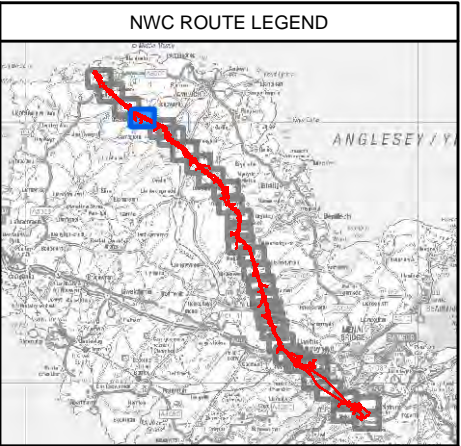
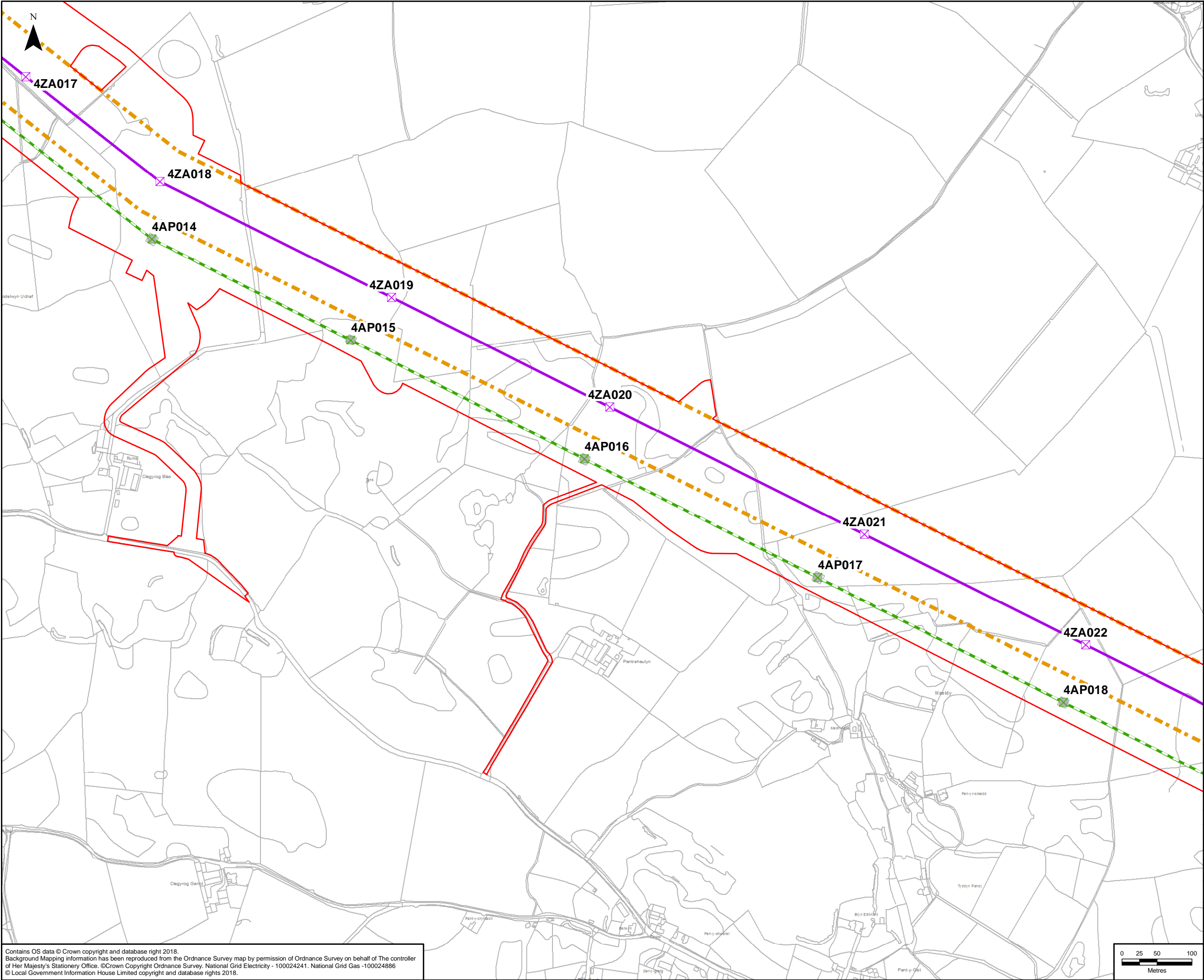
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OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION A

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Rev	Date	Description	GIS	Chk	App

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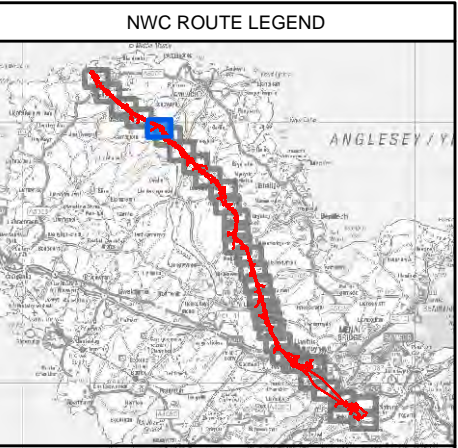
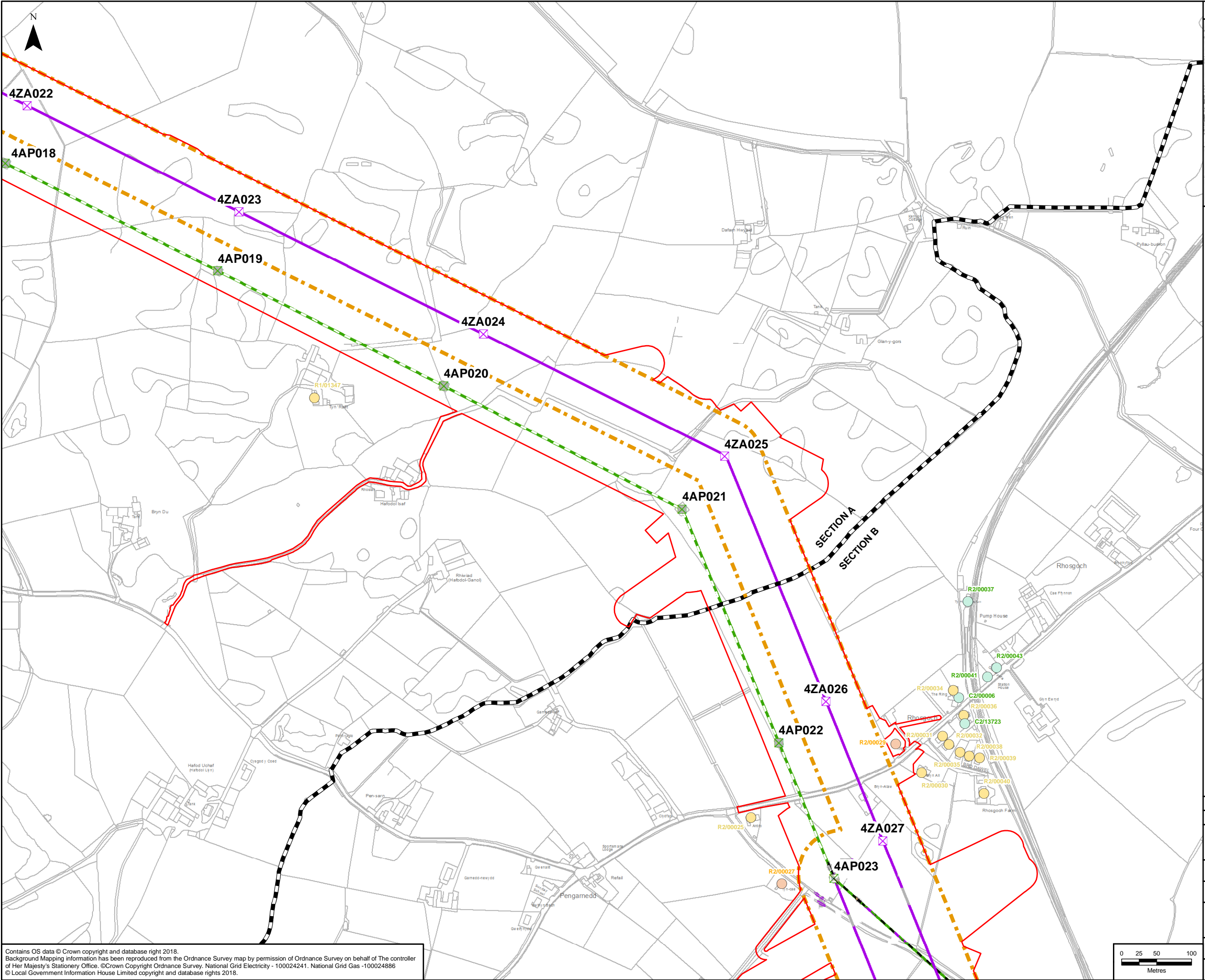
Scheme: NORTH WALES CONNECTION PROJECT

Document Number: 5.16.1.9

Document Title: FIGURE 16.9  
OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION A

Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
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A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

Scheme:

NORTH WALES CONNECTION PROJECT

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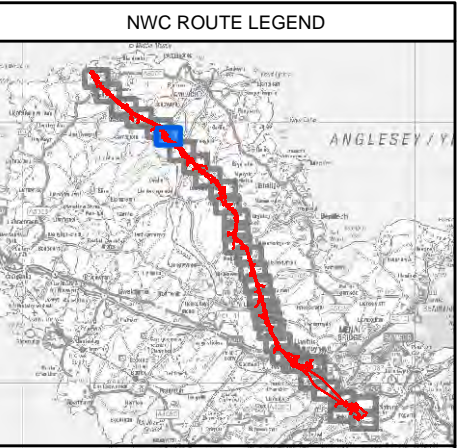
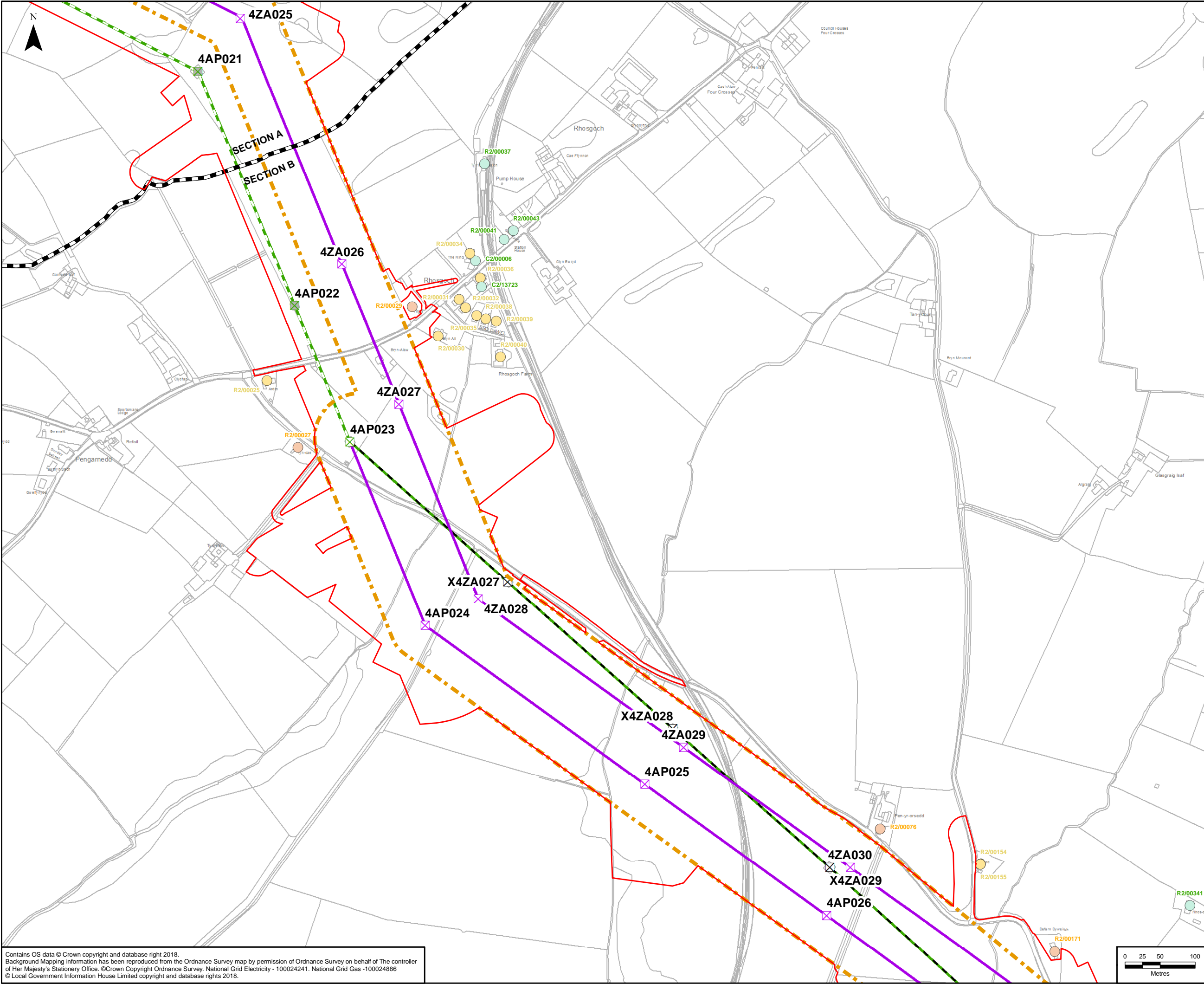
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OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION A

Creator:	Date:	Checker:	Date:	Approver:	Date:
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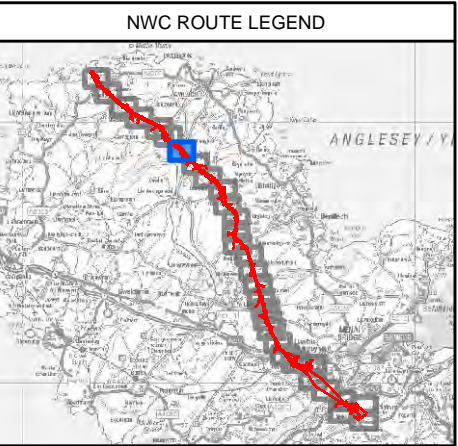
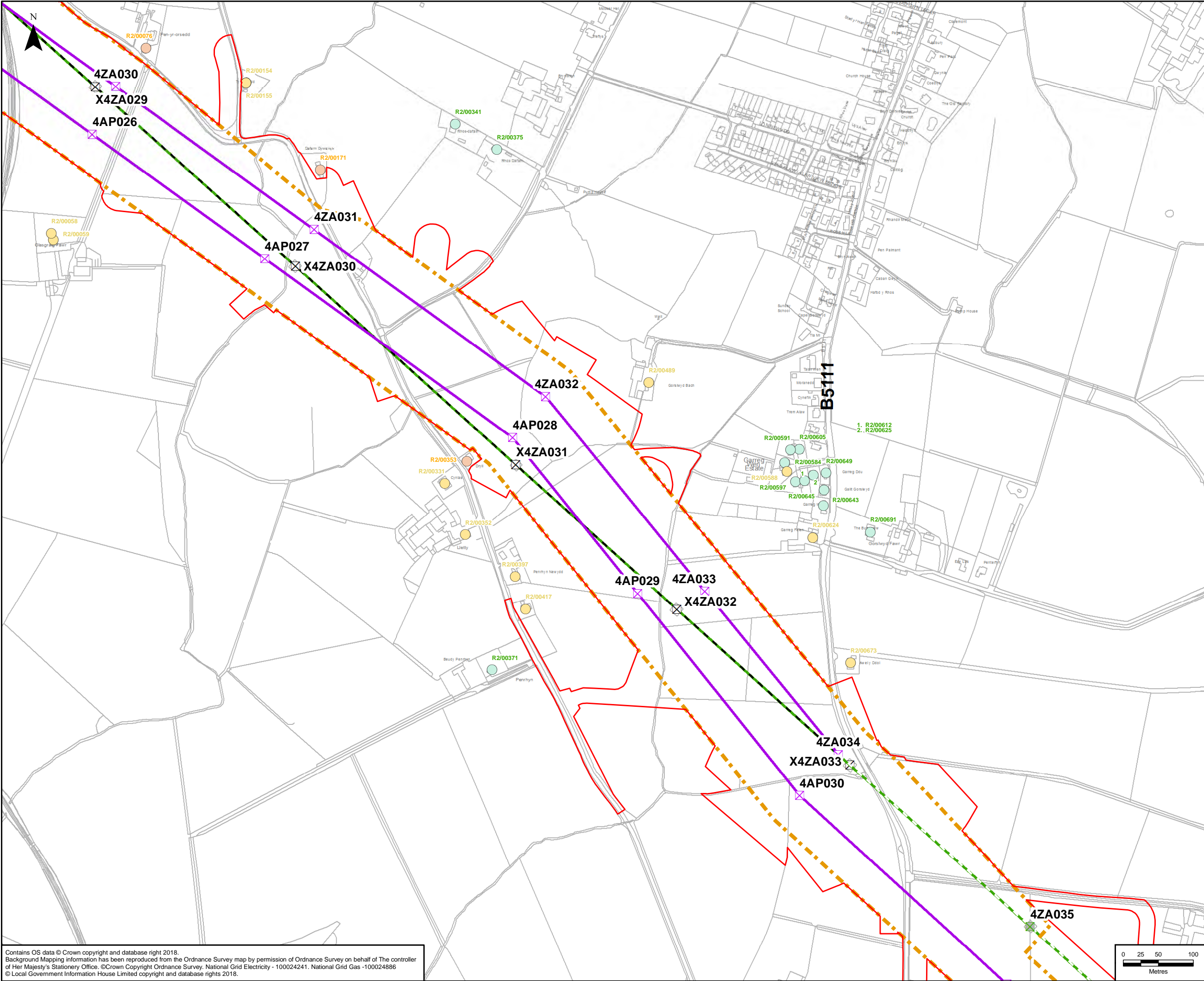
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Document Title: FIGURE 16.9  
OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION B

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A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
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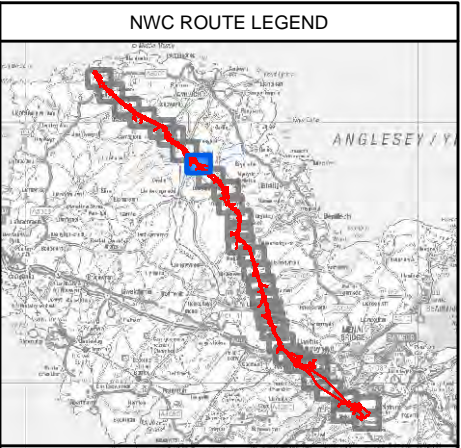
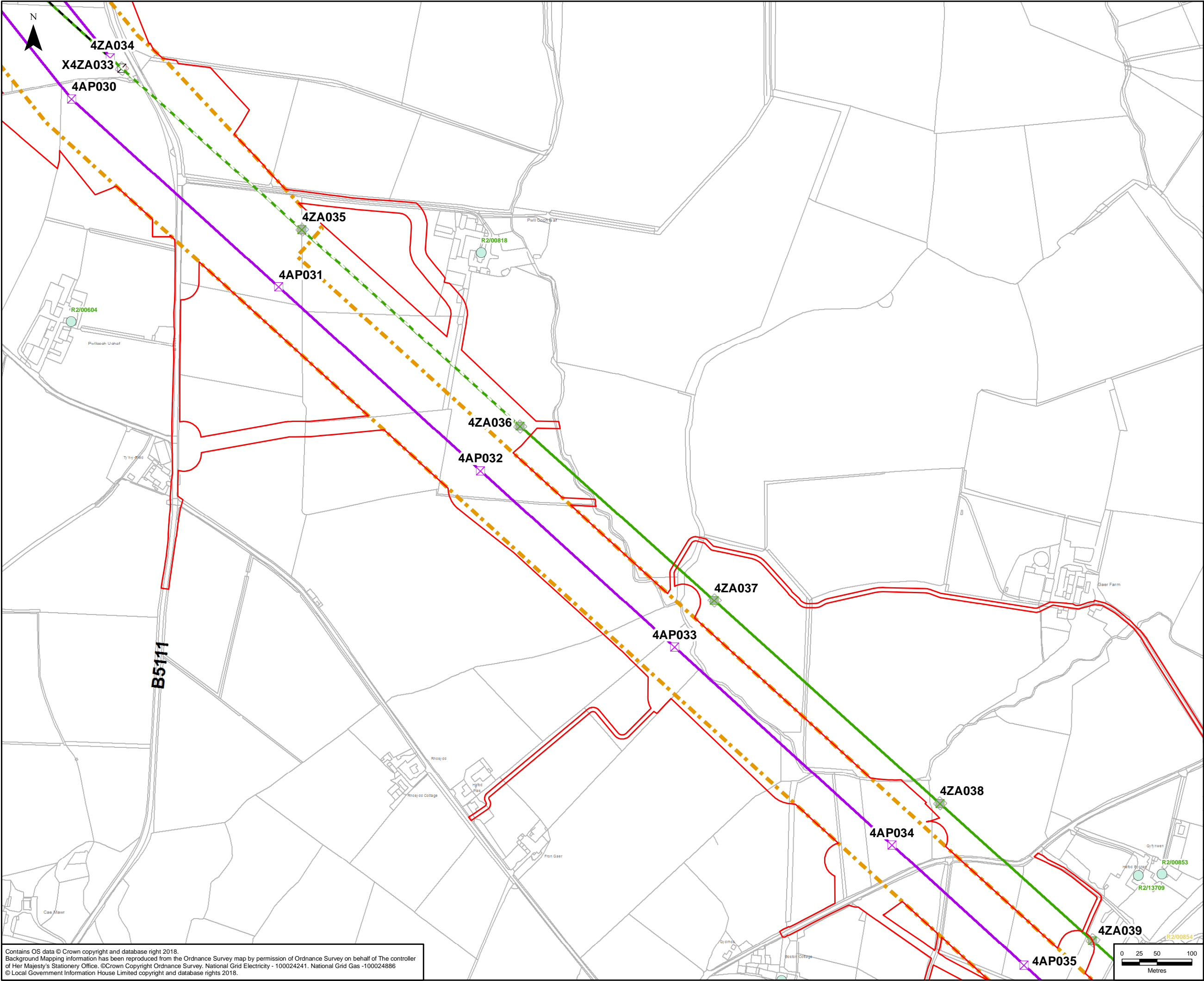
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OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION B

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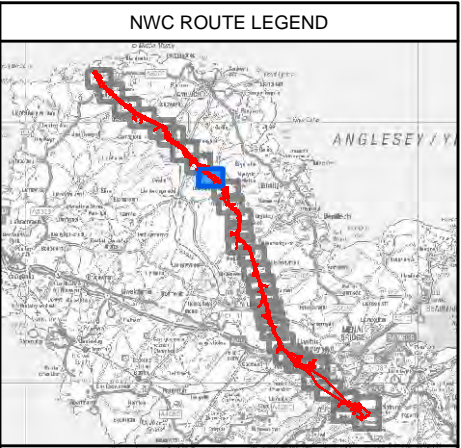
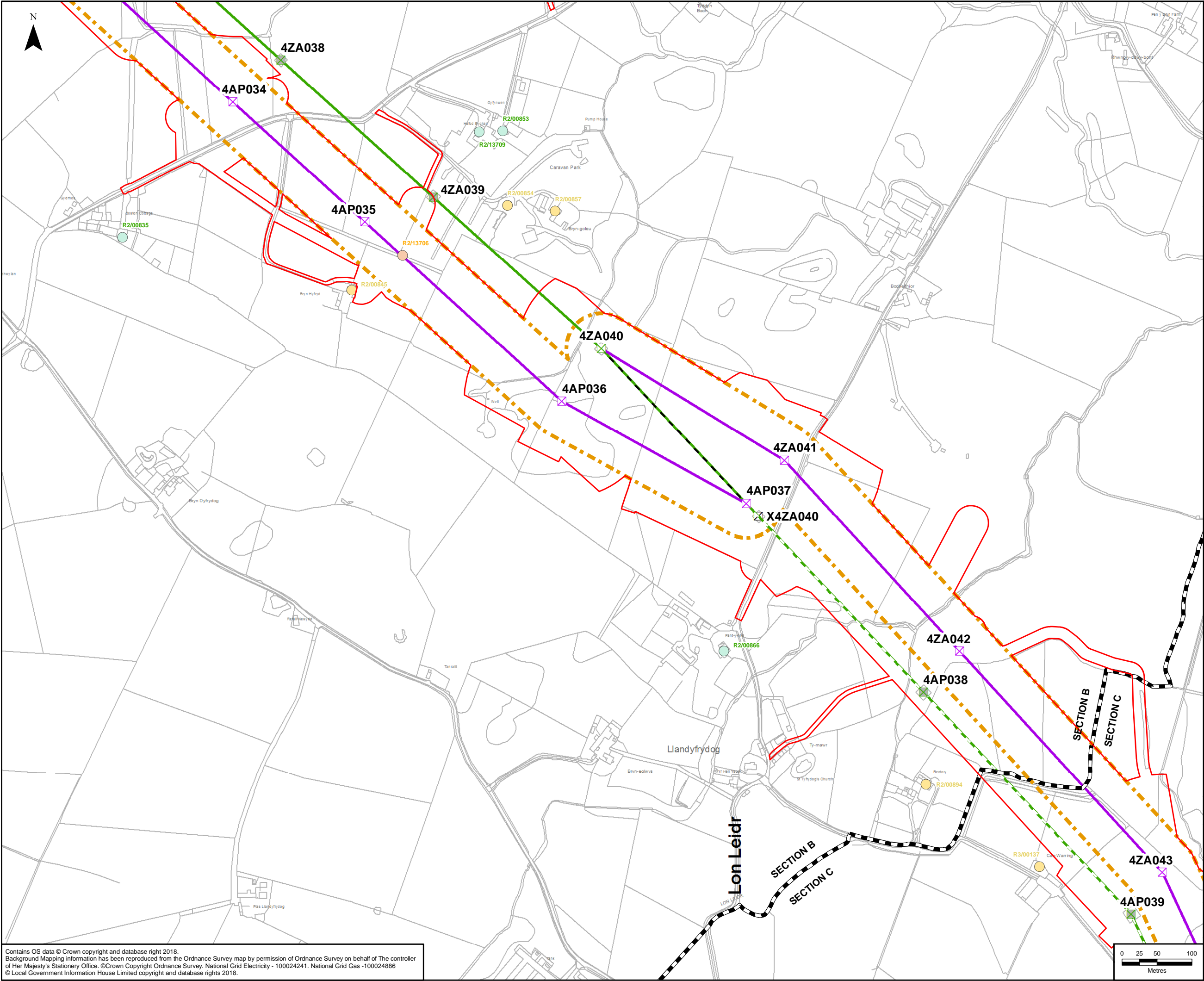
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OPERATIONAL NOISE - RESIDUAL EFFECTS  
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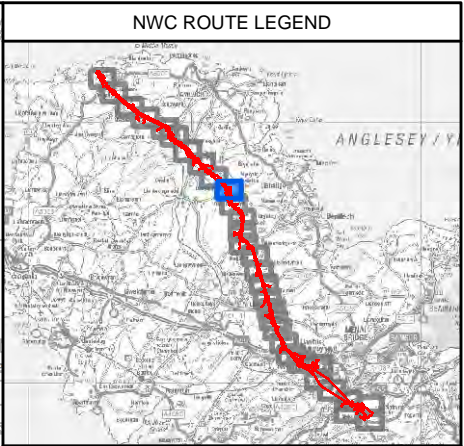
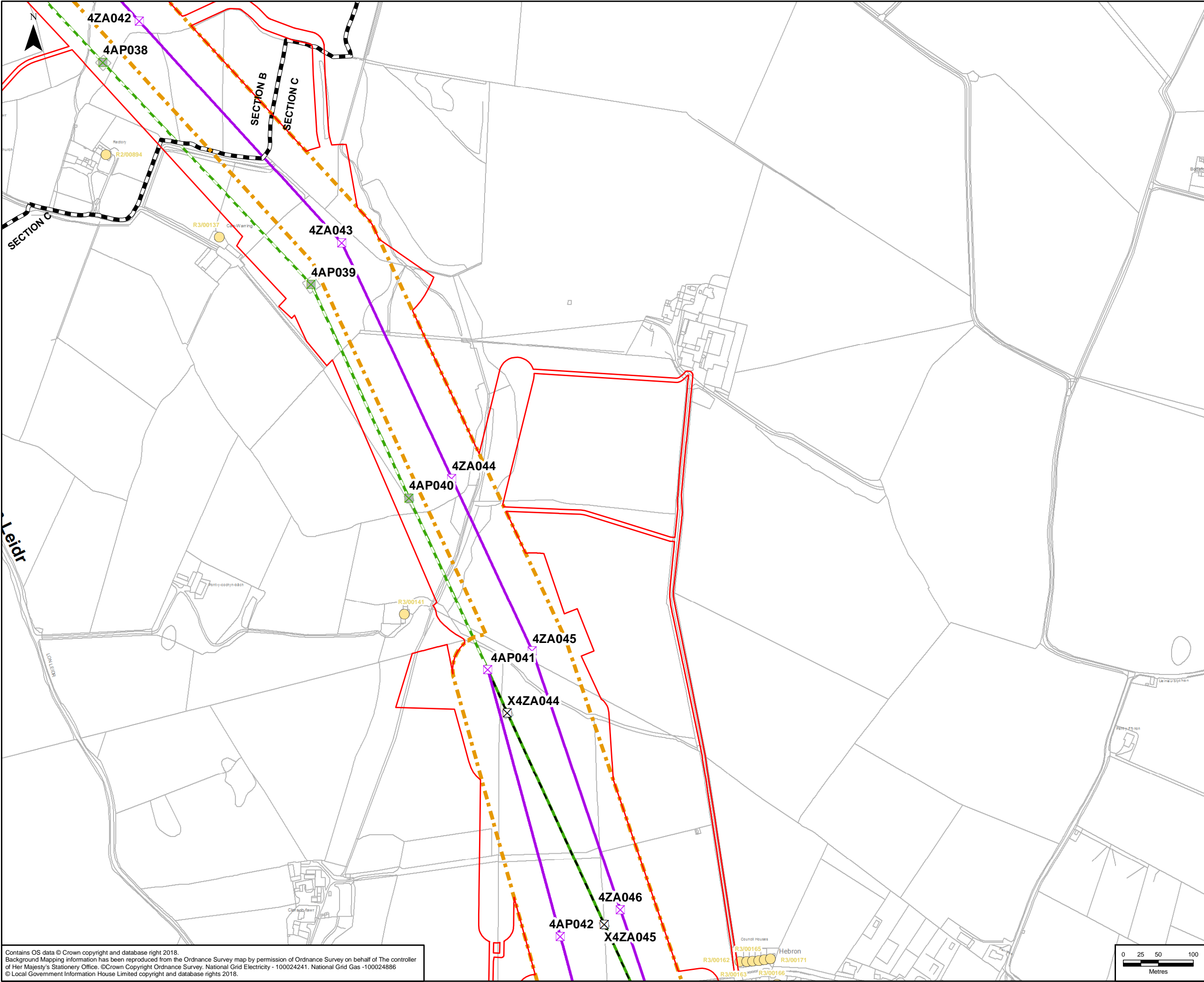
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A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

Scheme: NORTH WALES CONNECTION PROJECT					
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Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	20/07/2018	JB	20/07/2018	RM	20/07/2018
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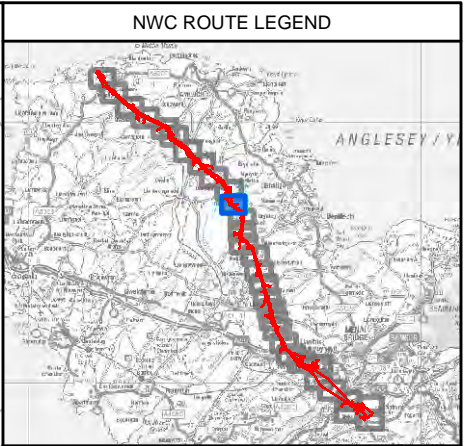
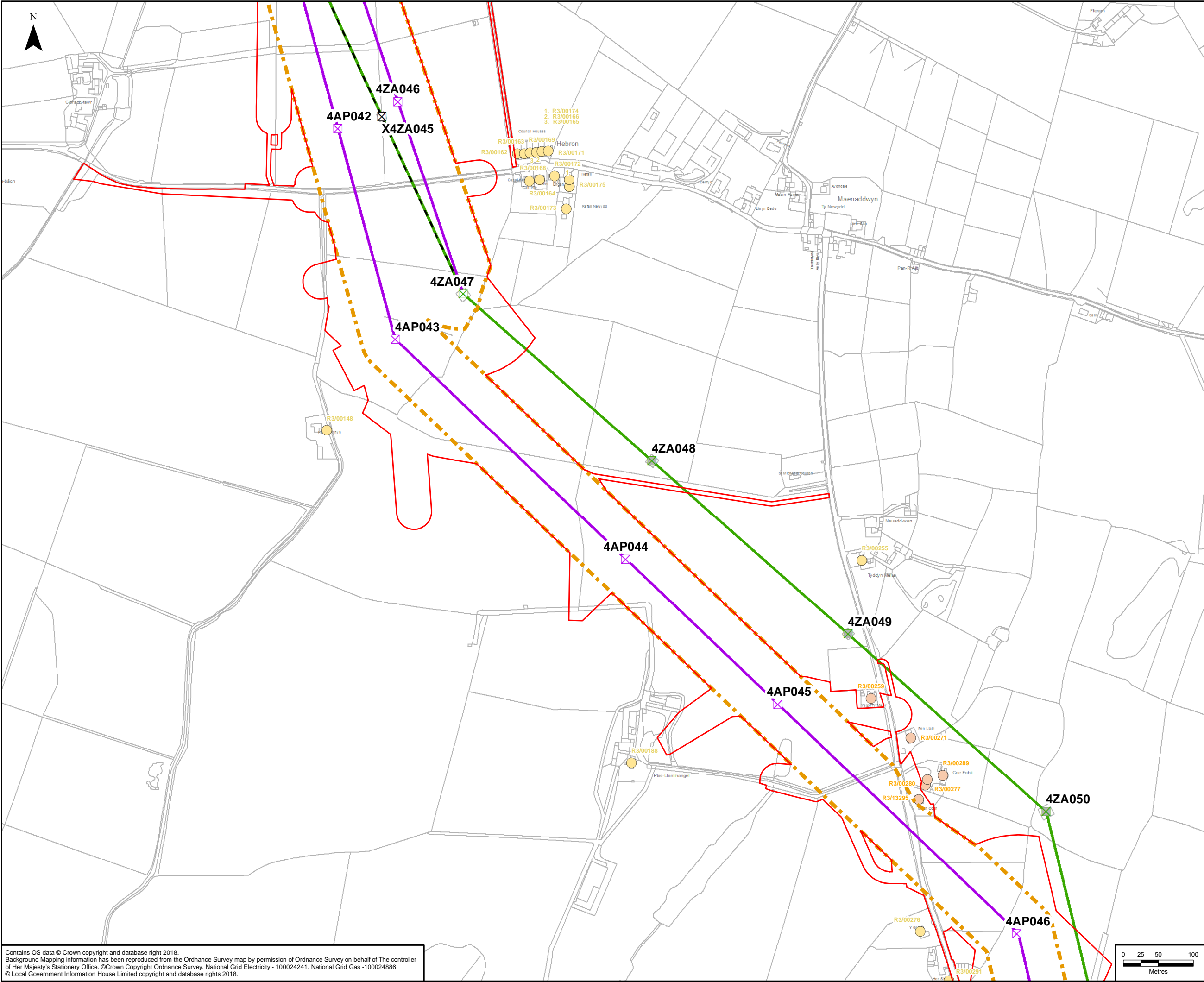
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Document Title: FIGURE 16.9  
OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION C

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- EXISTING 400KV OVERHEAD LINE
- TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

Scheme: NORTH WALES CONNECTION PROJECT

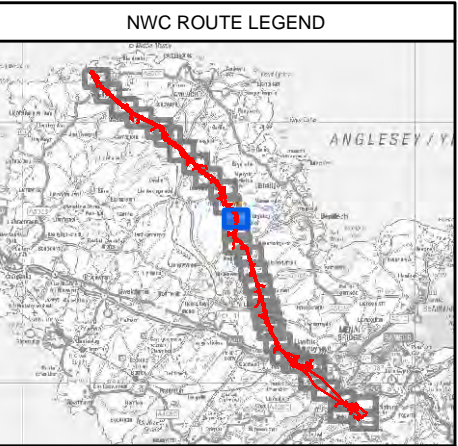
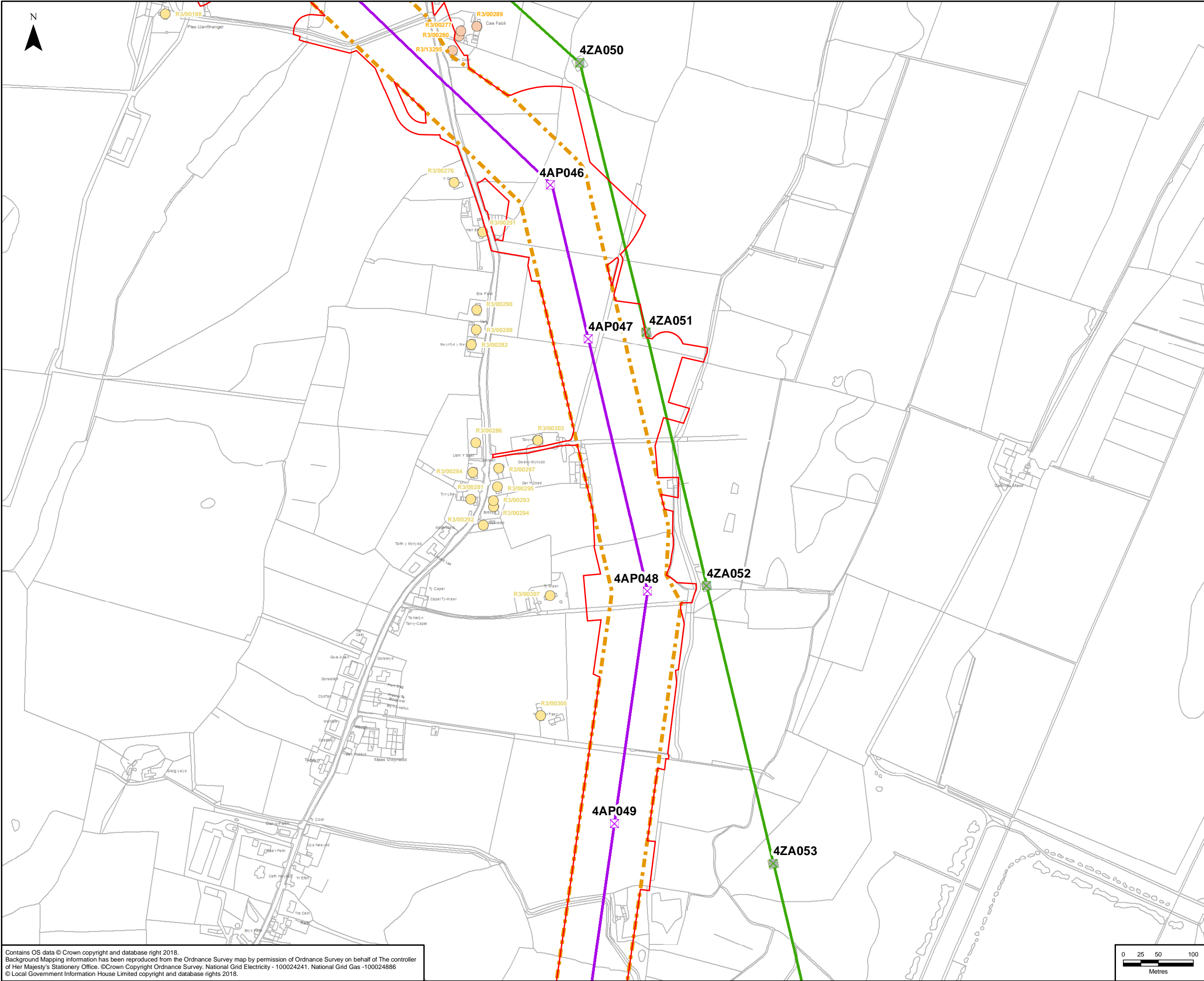
Document Number: 5.16.1.9

Document Title: FIGURE 16.9  
OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION C

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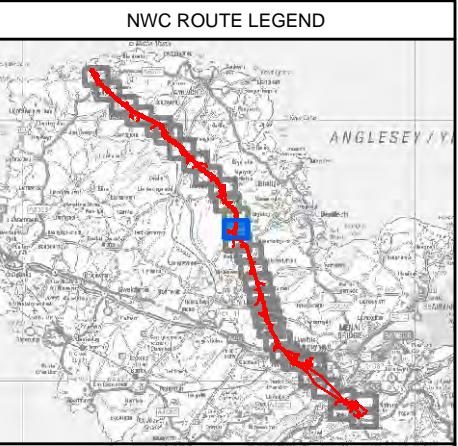
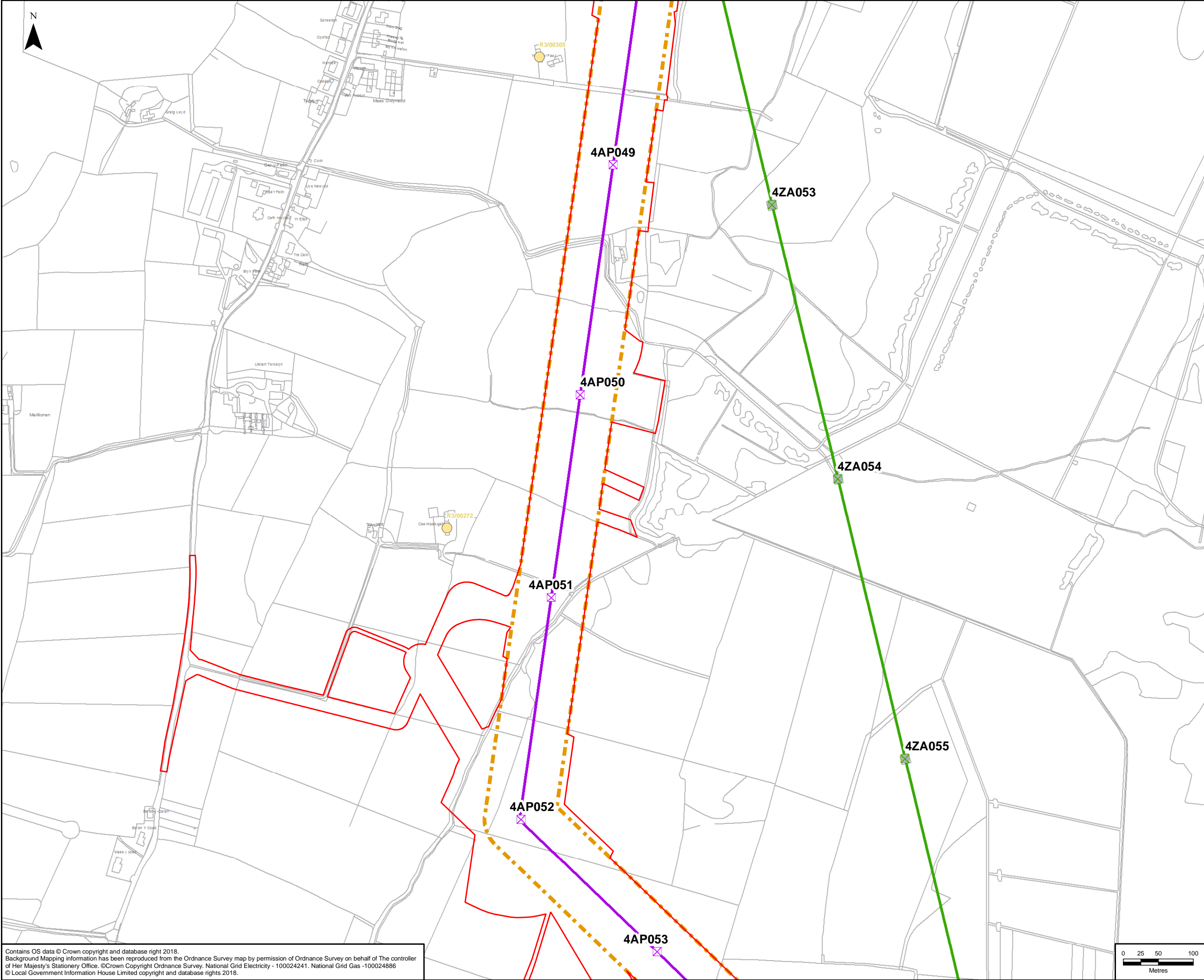
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- ORDER LIMITS
  - ABOVE GROUND LIMIT OF DEVIATION (LOD)
  - SECTION CUTLINES
  - EXISTING LATTICE PYLON TO BE REMOVED
  - EXISTING LATTICE PYLON NOT AFFECTED
  - EXISTING LATTICE PYLON TO BE MODIFIED
  - NEW LATTICE PYLON
  - NEW LOW HEIGHT LATTICE PYLON
  - NEW FULL LINE TENSION GANTRY
  - NEW GANTRY
  - GANTRY TO BE REMOVED
  - NEW OVERHEAD LINE
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  - TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND
  - PROPOSED SUBSTATION EXTENSION FOOTPRINT
  - EXISTING 132KV OUTDOOR SUBSTATION
  - EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
  - PROPOSED SUBSTATION EXTENSION FOOTPRINT
  - EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
  - RESIDUAL EFFECT**
    - MODERATE (NOT SIGNIFICANT)
    - MINOR
    - NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

<b>nationalgrid</b>					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.1.9					
Document Title: FIGURE 16.9 OPERATIONAL NOISE - RESIDUAL EFFECTS SECTION C					
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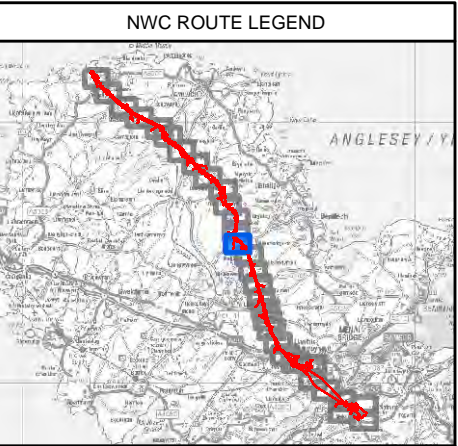
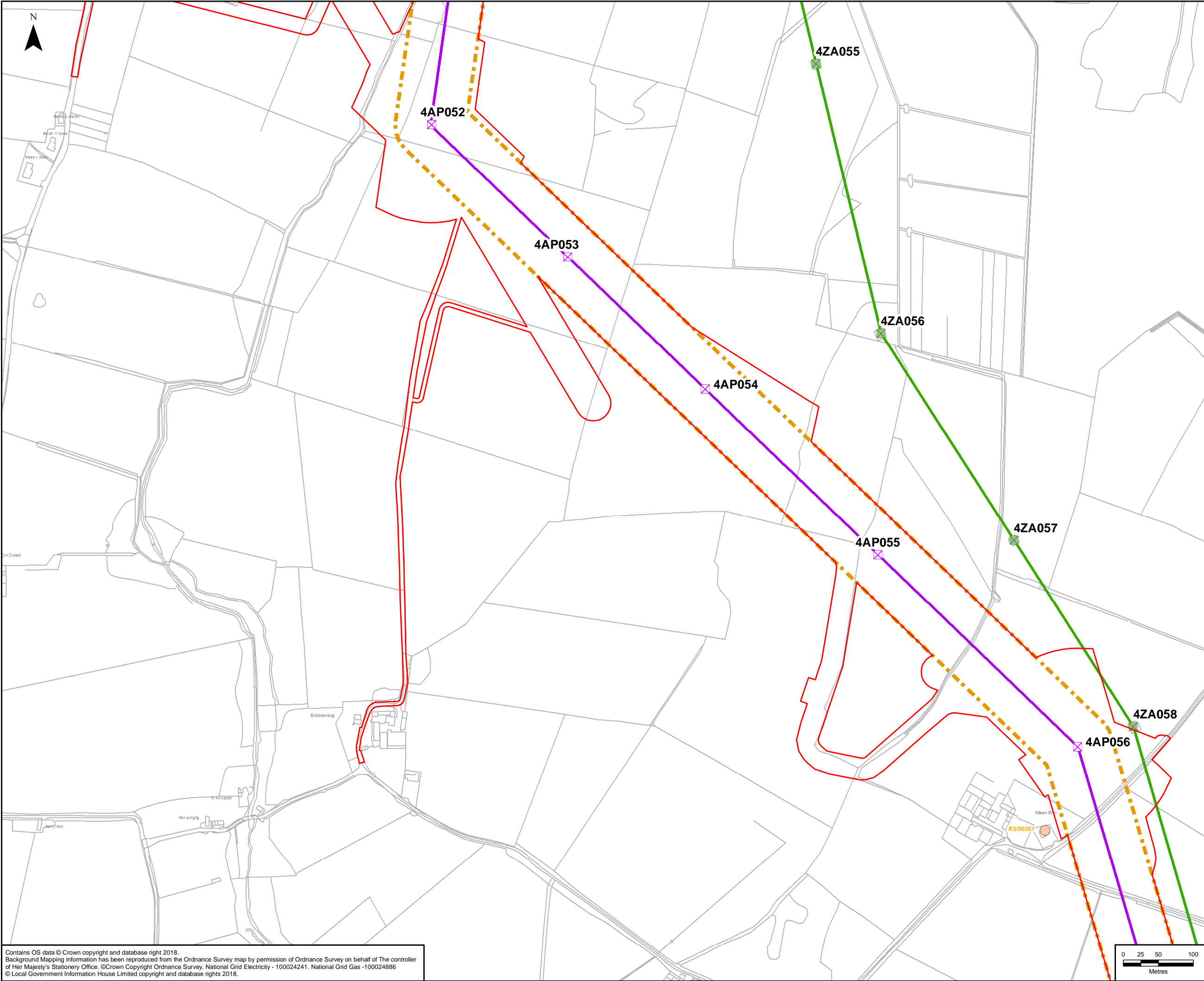
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- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
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- EXISTING LATTICE PYLON TO BE MODIFIED
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- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT**
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
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LEGEND



ORDER LIMITS - OPTION A



ABOVE GROUND LIMIT OF DEVIATION (LOD) - OPTION A



SECTION CUTLINES



EXISTING LATTICE PYLON TO BE REMOVED



EXISTING LATTICE PYLON NOT AFFECTED



EXISTING LATTICE PYLON TO BE MODIFIED



NEW LATTICE PYLON



NEW LOW HEIGHT LATTICE PYLON



NEW FULL LINE TENSION GANTRY



NEW GANTRY



GANTRY TO BE REMOVED



NEW OVERHEAD LINE



EXISTING OVERHEAD LINE NOT AFFECTED



EXISTING OVERHEAD LINE TO BE MODIFIED



EXISTING OVERHEAD LINE TO BE REMOVED



EXISTING 400KV OVERHEAD LINE



TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND




PROPOSED SUBSTATION EXTENSION FOOTPRINT



EXISTING 132KV OUTDOOR SUBSTATION



EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT



PROPOSED SUBSTATION EXTENSION FOOTPRINT



EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT

RESIDUAL EFFECT



MODERATE (NOT SIGNIFICANT)



MINOR

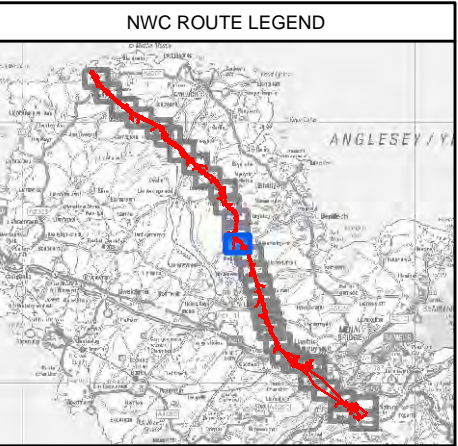
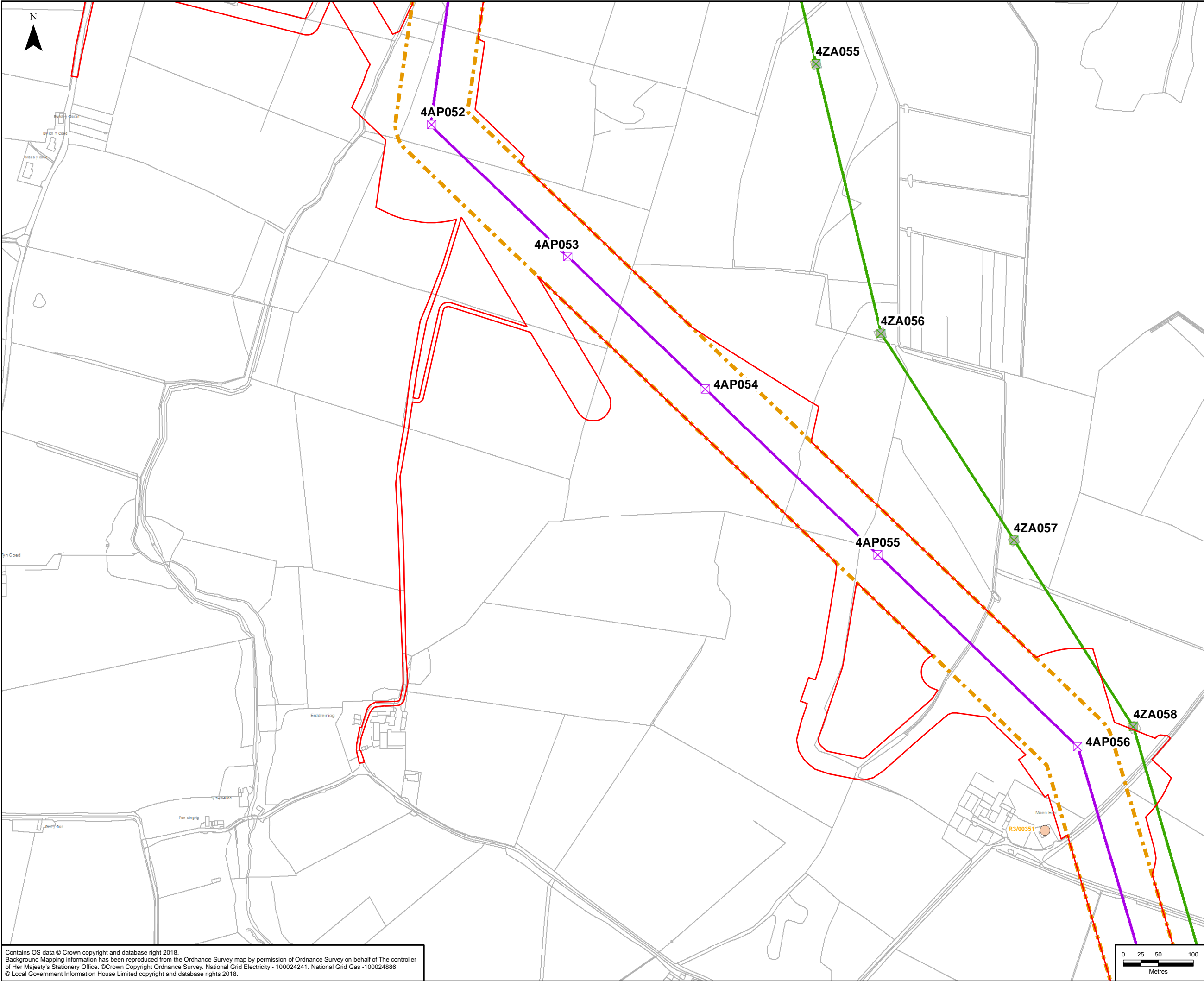


NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

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**LEGEND**

- ORDER LIMITS - OPTION B
- ABOVE GROUND LIMIT OF DEVIATION (LOD) - OPTION B
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON NOT AFFECTED
- EXISTING LATTICE PYLON TO BE MODIFIED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- NEW FULL LINE TENSION GANTRY
- NEW GANTRY
- GANTRY TO BE REMOVED
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- PROPOSED SUBSTATION EXTENSION FOOTPRINT
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- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT**
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

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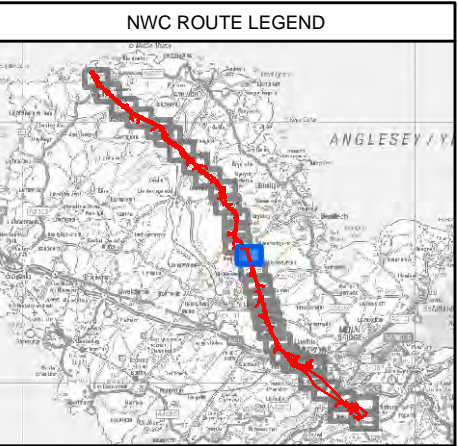
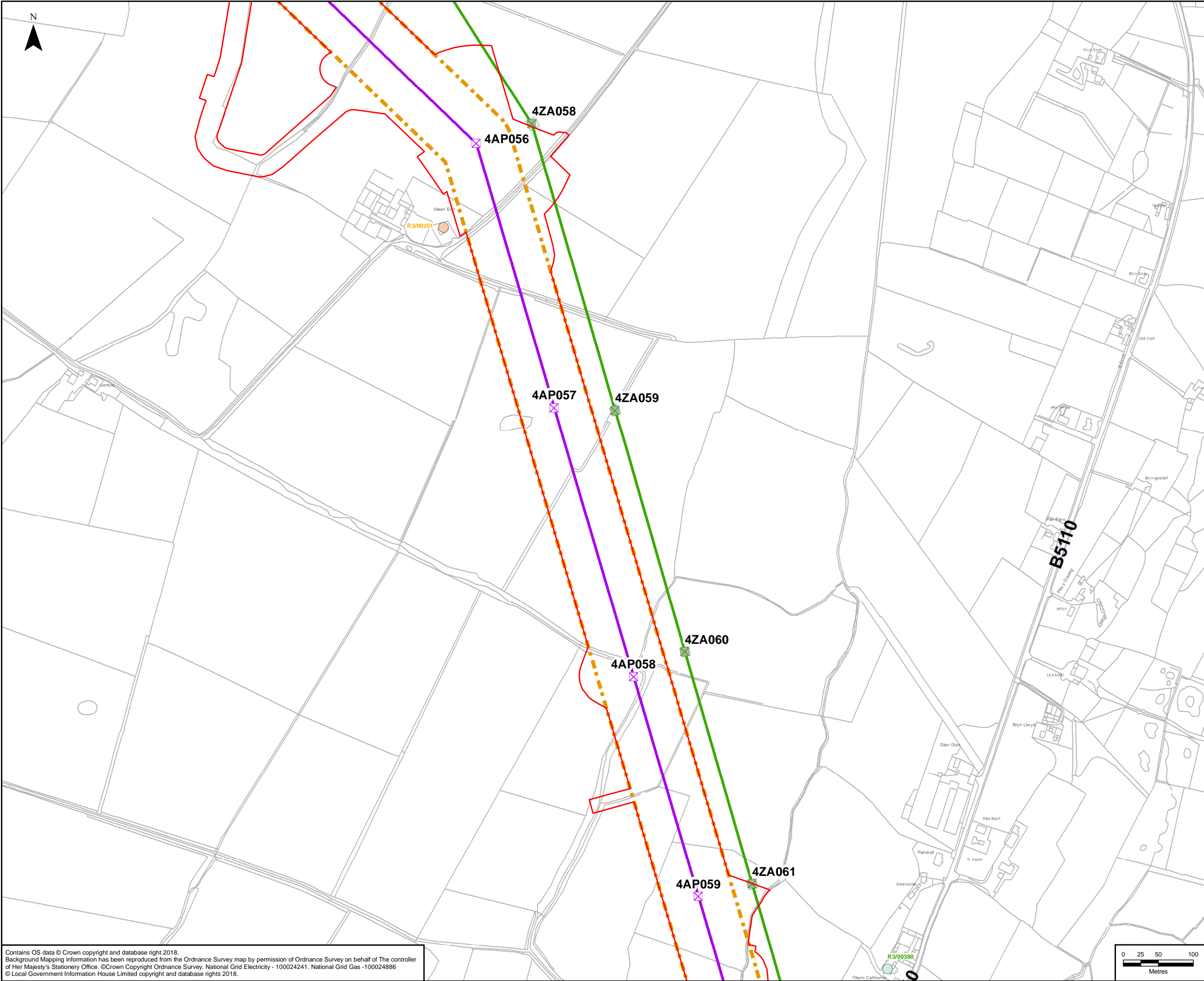
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OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION C

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**LEGEND**

- ORDER LIMITS - OPTION A
- ABOVE GROUND LIMIT OF DEVIATION (LOD) - OPTION A
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON NOT AFFECTED
- EXISTING LATTICE PYLON TO BE MODIFIED
- NEW LATTICE PYLON
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- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT

**RESIDUAL EFFECT**

- MODERATE (NOT SIGNIFICANT)
- MINOR
- NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

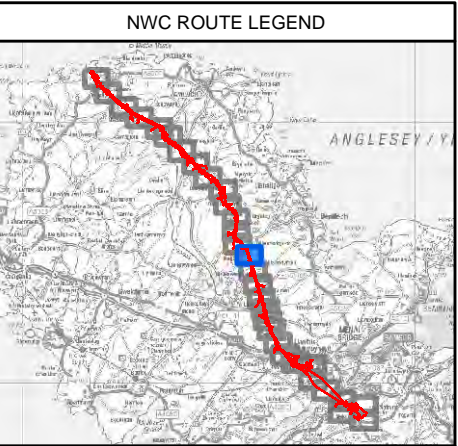
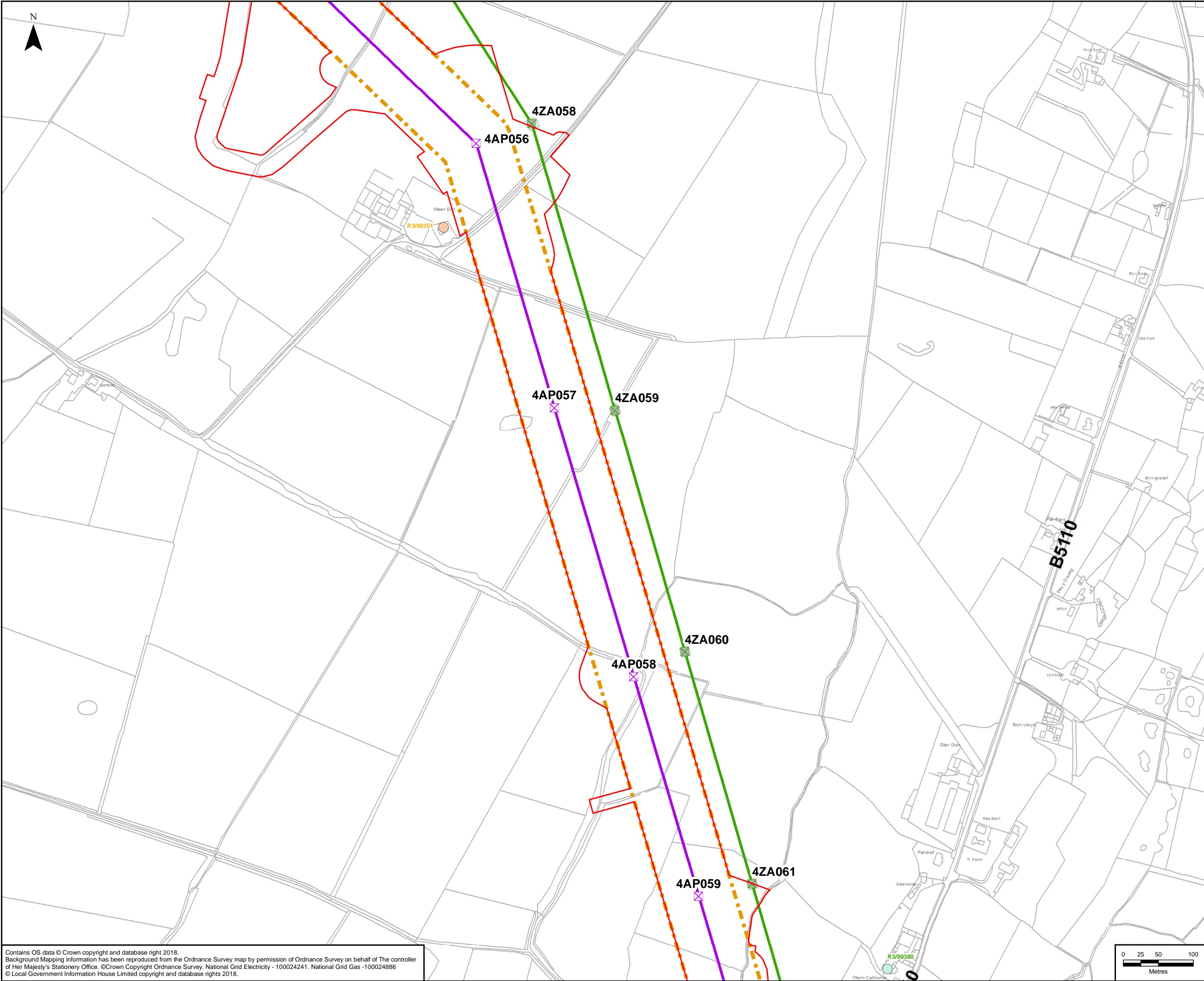
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OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION C

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**LEGEND**

- ORDER LIMITS - OPTION B
- ABOVE GROUND LIMIT OF DEVIATION (LOD) - OPTION B
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON NOT AFFECTED
- EXISTING LATTICE PYLON TO BE MODIFIED
- NEW LATTICE PYLON
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- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT**
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTIBLE

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Rev	Date	Description	GIS	Chk	App

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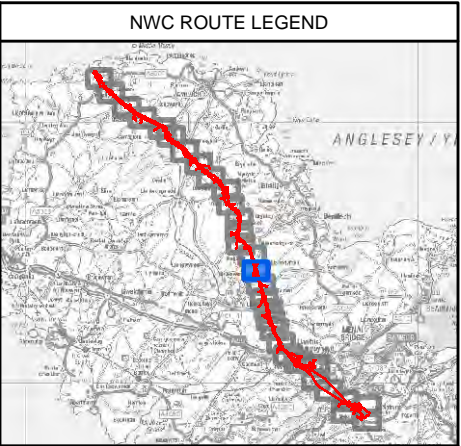
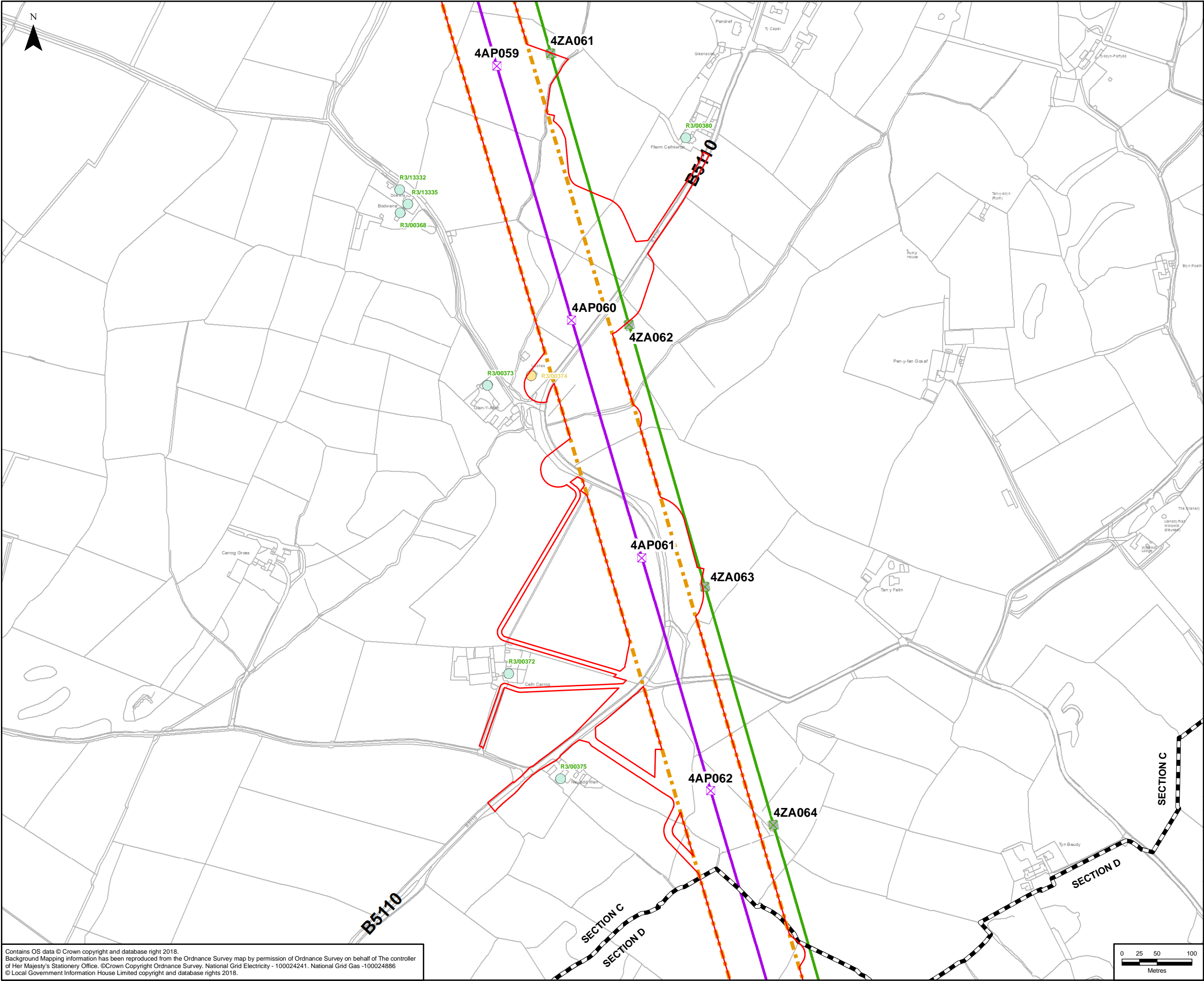
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OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION C

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**LEGEND**

- ORDER LIMITS - OPTION A
- ABOVE GROUND LIMIT OF DEVIATION (LOD) - OPTION A
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
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- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT**
- MODERATE (NOT SIGNIFICANT)
- MINOR
- NEGLECTIBLE

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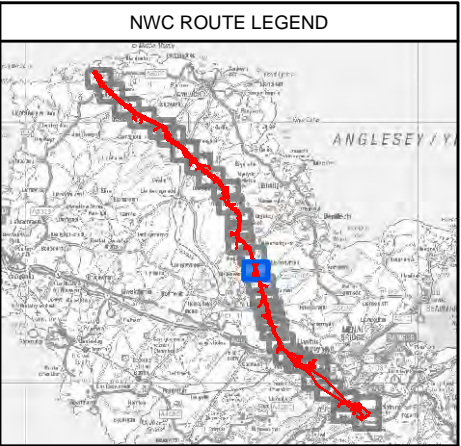
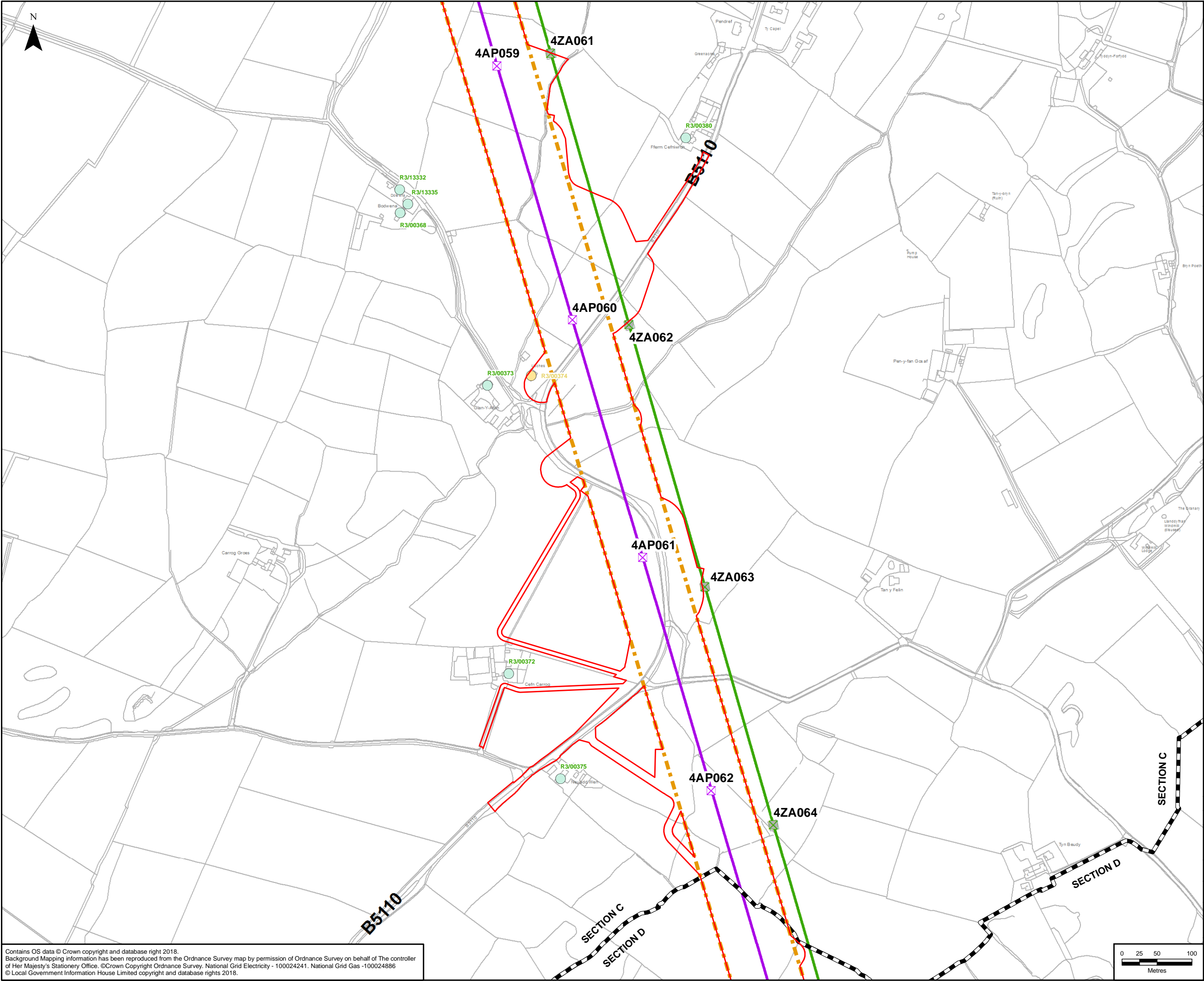
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OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION C

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**LEGEND**

ORDER LIMITS - OPTION B

ABOVE GROUND LIMIT OF DEVIATION (LOD) - OPTION B

SECTION CUTLINES

EXISTING LATTICE PYLON TO BE REMOVED

EXISTING LATTICE PYLON NOT AFFECTED

EXISTING LATTICE PYLON TO BE MODIFIED

NEW LATTICE PYLON

NEW LOW HEIGHT LATTICE PYLON

NEW FULL LINE TENSION GANTRY

NEW GANTRY

GANTRY TO BE REMOVED

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EXISTING 400KV OVERHEAD LINE

TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND

PROPOSED SUBSTATION EXTENSION FOOTPRINT

EXISTING 132KV OUTDOOR SUBSTATION

EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT

PROPOSED SUBSTATION EXTENSION FOOTPRINT

EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT

RESIDUAL EFFECT

MODERATE (NOT SIGNIFICANT)

MINOR

NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

Scheme: NORTH WALES CONNECTION PROJECT

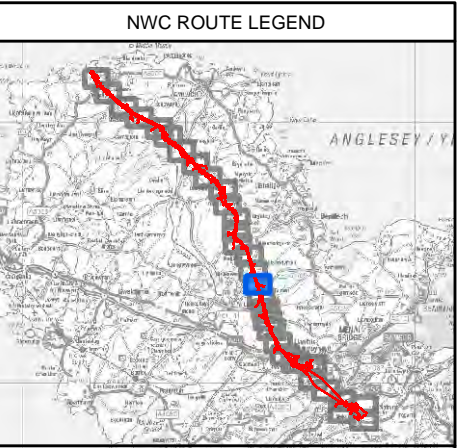
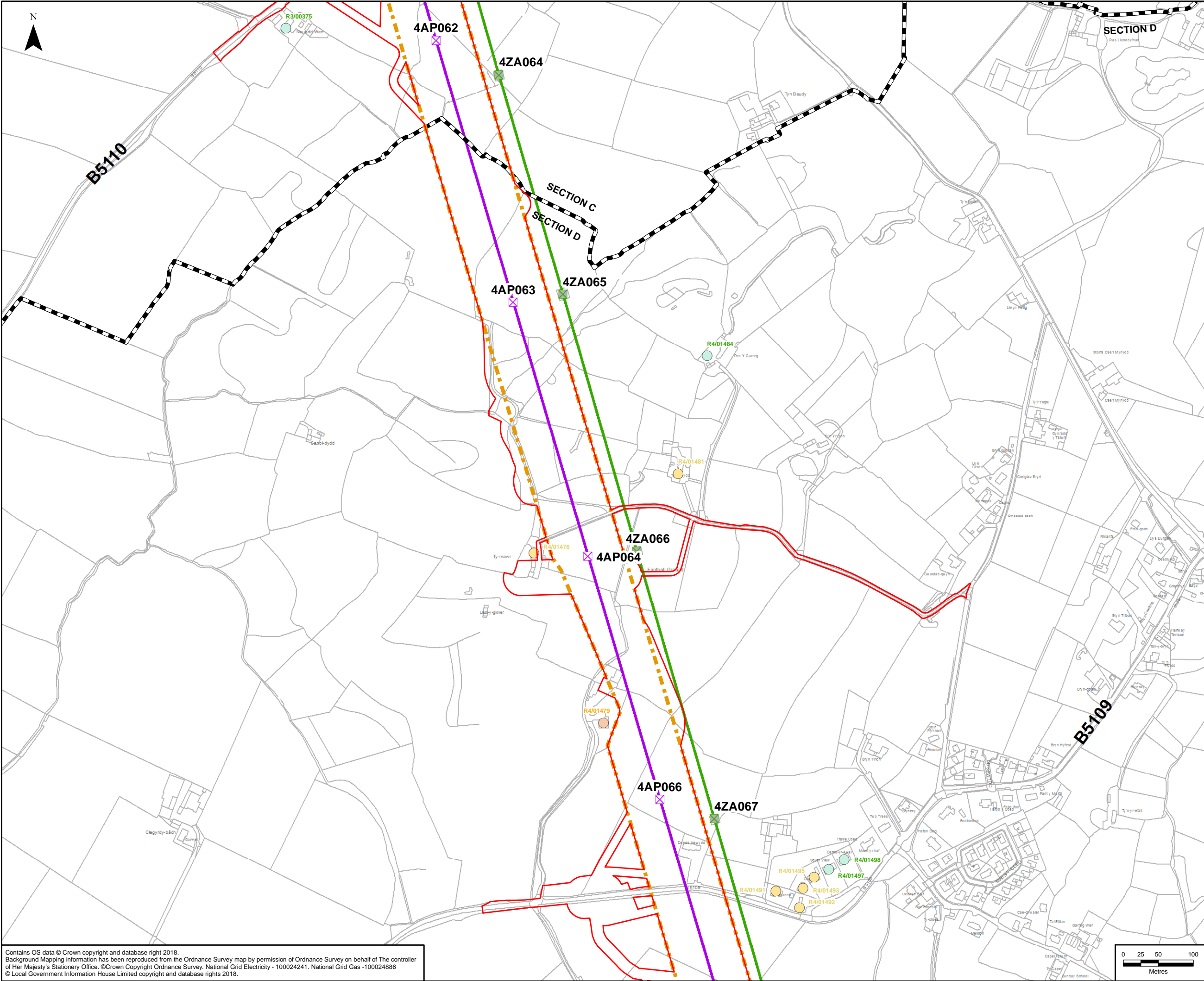
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OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION C

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**LEGEND**

- ORDER LIMITS - OPTION A
- ABOVE GROUND LIMIT OF DEVIATION (LOD) - OPTION A
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON NOT AFFECTED
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- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTIBLE

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Rev	Date	Description	GIS	Chk	App

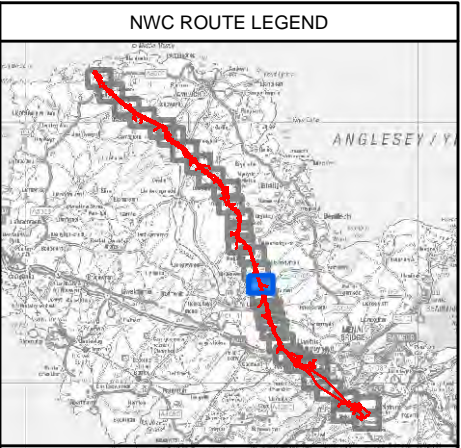
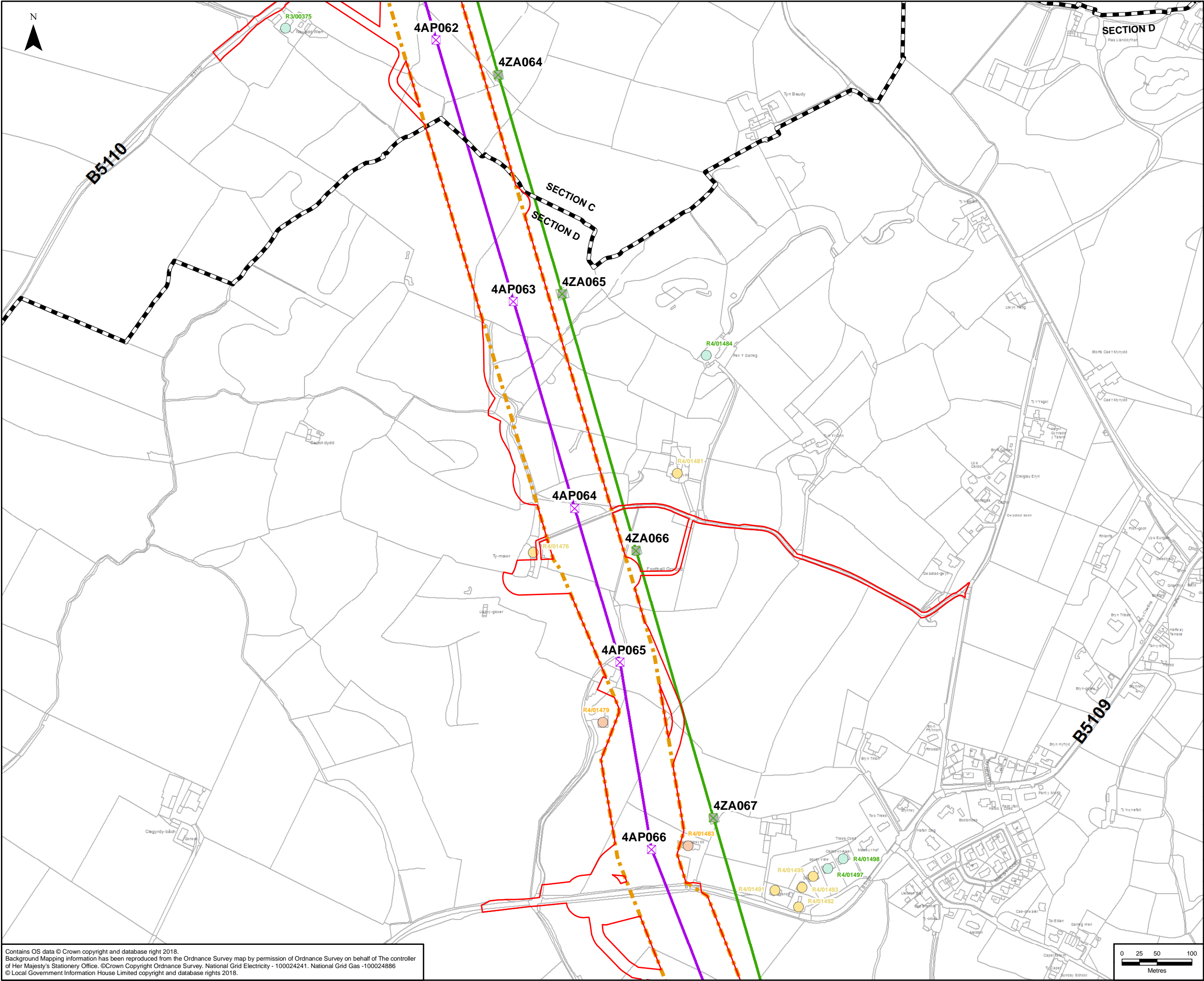
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SECTION D

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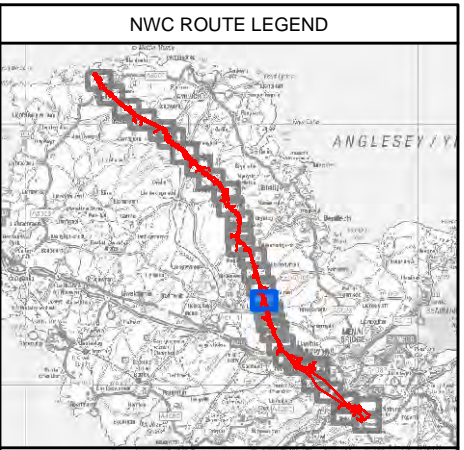
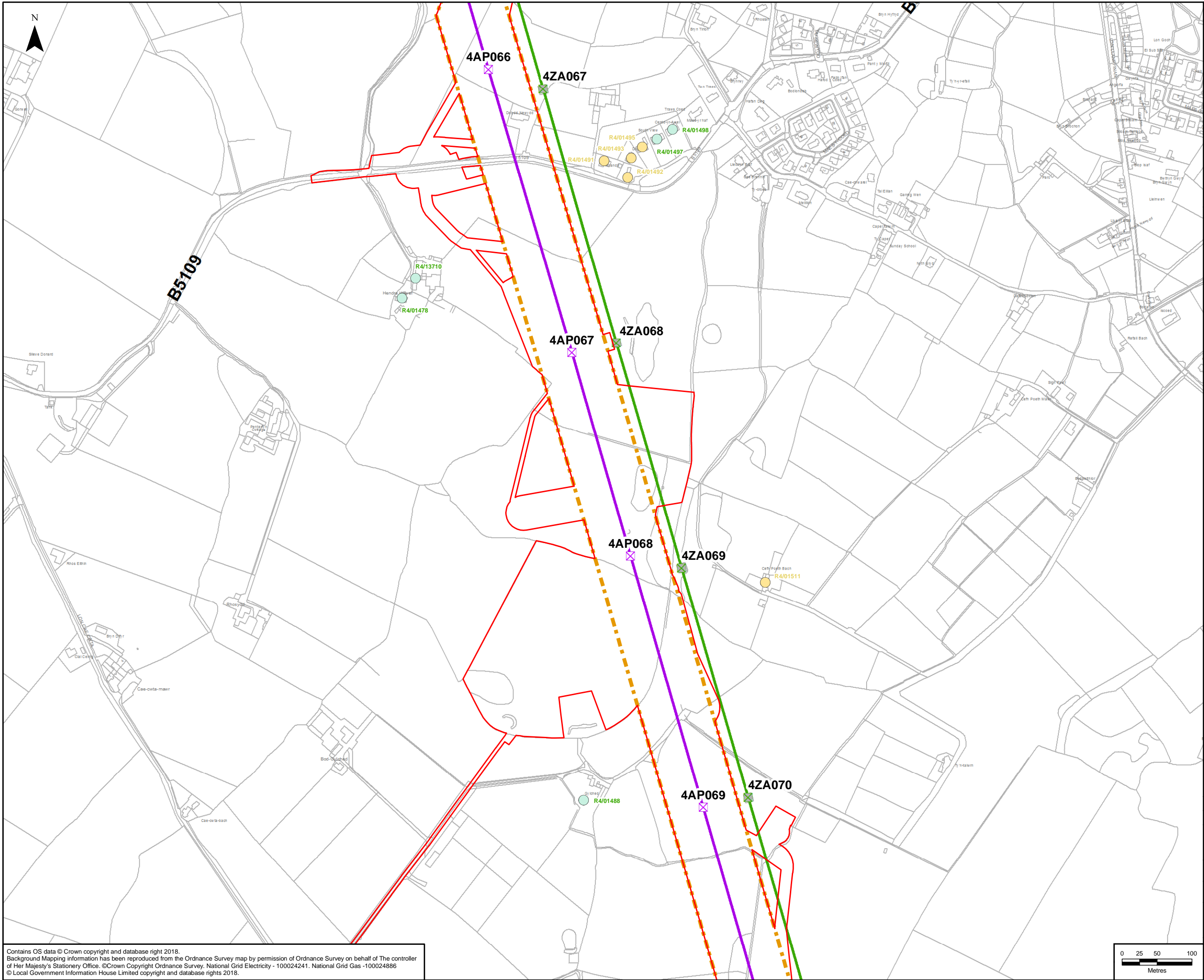
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- ABOVE GROUND LIMIT OF DEVIATION (LOD) - OPTION B
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- EXISTING LATTICE PYLON NOT AFFECTED
- EXISTING LATTICE PYLON TO BE MODIFIED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- NEW FULL LINE TENSION GANTRY
- NEW GANTRY
- GANTRY TO BE REMOVED
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- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING 400KV OVERHEAD LINE
- TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT**
- MODERATE (NOT SIGNIFICANT)
- MINOR
- NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.1.9					
Document Title: FIGURE 16.9 OPERATIONAL NOISE - RESIDUAL EFFECTS SECTION D					
Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 17 of 31 Option B	Rev: A	

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LEGEND

ORDER LIMITS - OPTION A

ABOVE GROUND LIMIT OF DEVIATION (LOD) - OPTION A

SECTION CUTLINES

EXISTING LATTICE PYLON TO BE REMOVED

EXISTING LATTICE PYLON NOT AFFECTED

EXISTING LATTICE PYLON TO BE MODIFIED

NEW LATTICE PYLON

NEW LOW HEIGHT LATTICE PYLON

NEW FULL LINE TENSION GANTRY

NEW GANTRY

GANTRY TO BE REMOVED

NEW OVERHEAD LINE

EXISTING OVERHEAD LINE NOT AFFECTED

EXISTING OVERHEAD LINE TO BE MODIFIED

EXISTING OVERHEAD LINE TO BE REMOVED

EXISTING 400KV OVERHEAD LINE

TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND

PROPOSED SUBSTATION EXTENSION FOOTPRINT

EXISTING 132KV OUTDOOR SUBSTATION

EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT

PROPOSED SUBSTATION EXTENSION FOOTPRINT

EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT

RESIDUAL EFFECT

MODERATE (NOT SIGNIFICANT)

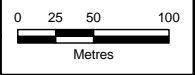
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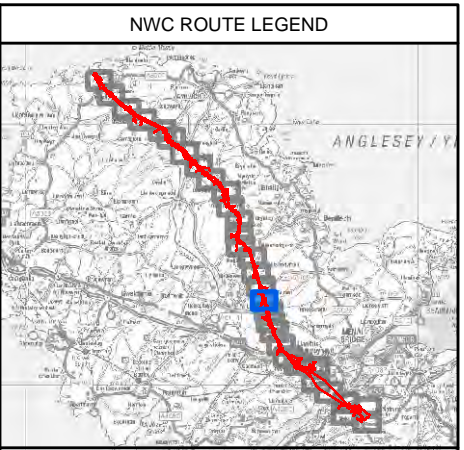
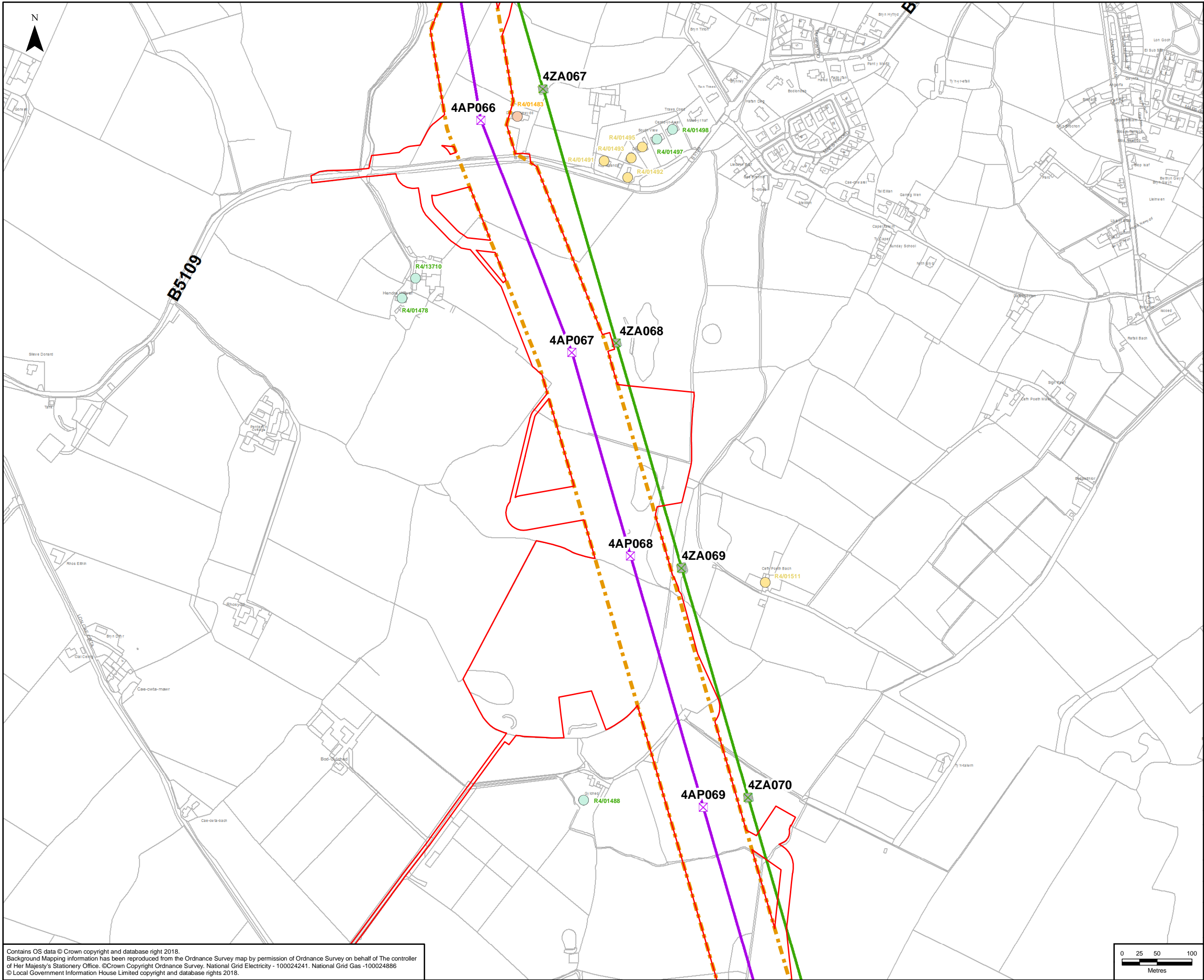
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A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.1.9					
Document Title: FIGURE 16.9 OPERATIONAL NOISE - RESIDUAL EFFECTS SECTION D					
Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 18 of 31 Option A	Rev: A	

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- LEGEND**
- ORDER LIMITS - OPTION B
  - ABOVE GROUND LIMIT OF DEVIATION (LOD) - OPTION B
  - SECTION CUTLINES
  - EXISTING LATTICE PYLON TO BE REMOVED
  - EXISTING LATTICE PYLON NOT AFFECTED
  - EXISTING LATTICE PYLON TO BE MODIFIED
  - NEW LATTICE PYLON
  - NEW LOW HEIGHT LATTICE PYLON
  - NEW FULL LINE TENSION GANTRY
  - NEW GANTRY
  - GANTRY TO BE REMOVED
  - NEW OVERHEAD LINE
  - EXISTING OVERHEAD LINE NOT AFFECTED
  - EXISTING OVERHEAD LINE TO BE MODIFIED
  - EXISTING OVERHEAD LINE TO BE REMOVED
  - EXISTING 400KV OVERHEAD LINE
  - TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND
  - PROPOSED SUBSTATION EXTENSION FOOTPRINT
  - EXISTING 132KV OUTDOOR SUBSTATION
  - EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
  - PROPOSED SUBSTATION EXTENSION FOOTPRINT
  - EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT

- RESIDUAL EFFECT**
- MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

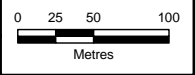
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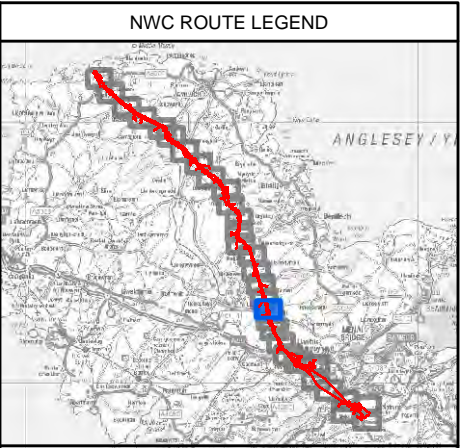
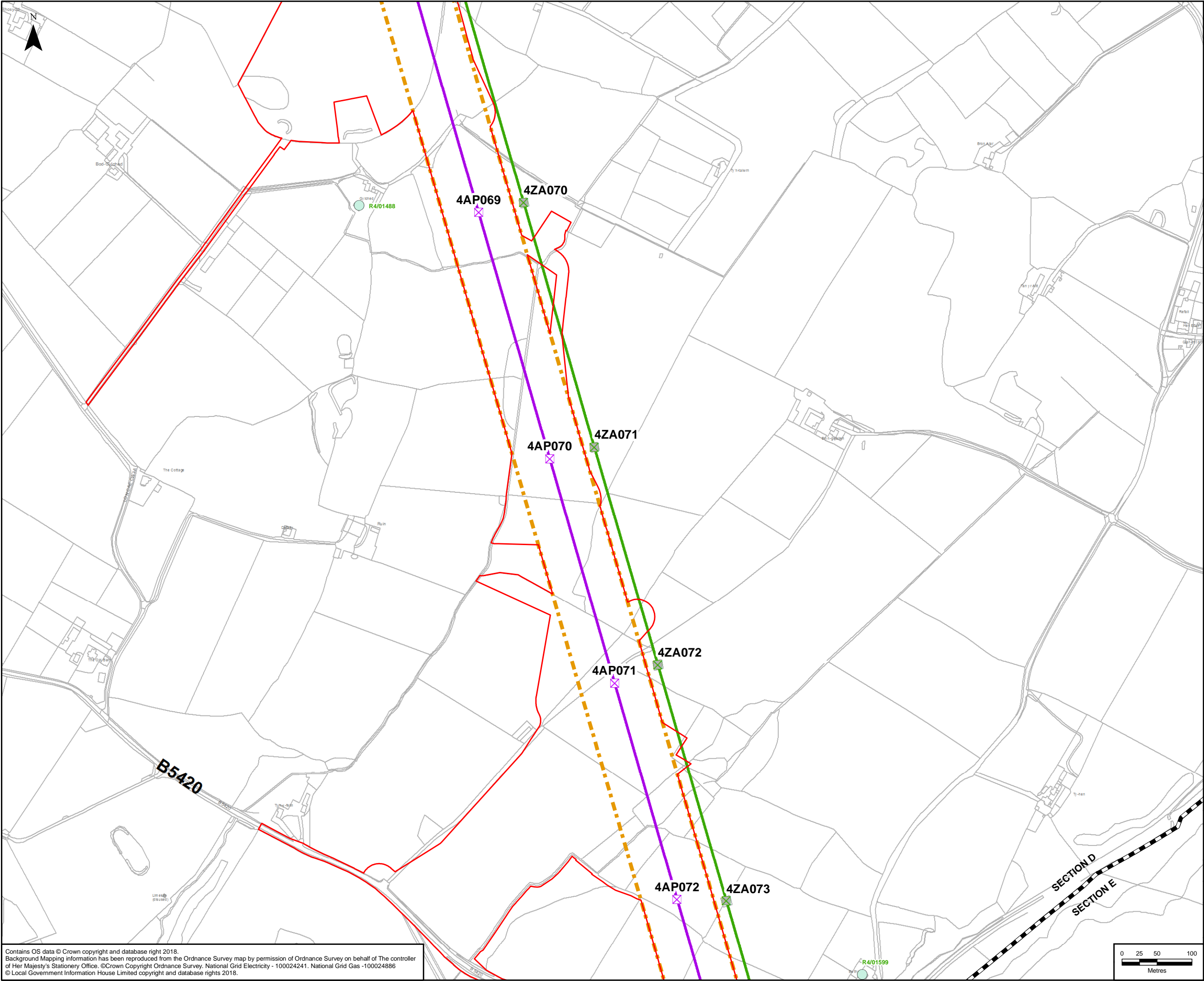
Document Title: FIGURE 16.9  
OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION D

Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 18 of 31 Option B	Rev: A	

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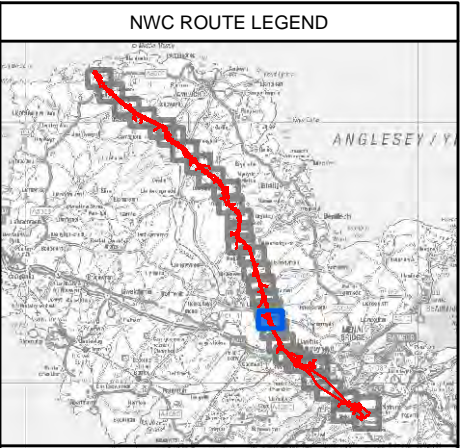
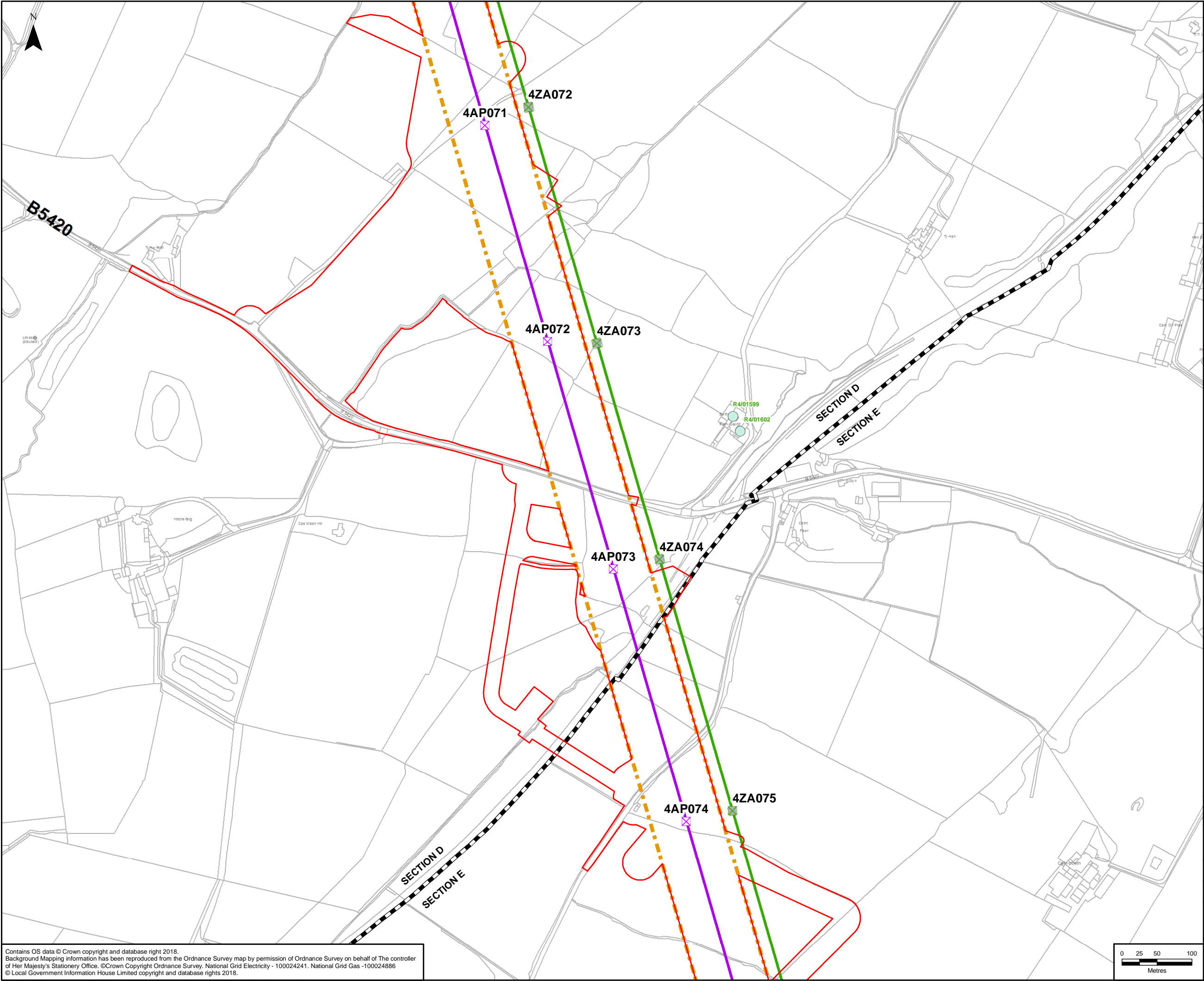


**LEGEND**

- ORDER LIMITS
- ABOVE GROUND LIMIT OF DEVIATION (LOD)
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON NOT AFFECTED
- EXISTING LATTICE PYLON TO BE MODIFIED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- NEW FULL LINE TENSION GANTRY
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE NOT AFFECTED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING 400KV OVERHEAD LINE
- TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT**
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTABLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.1.9					
Document Title: FIGURE 16.9 OPERATIONAL NOISE - RESIDUAL EFFECTS SECTION D					
Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 19 of 31	Rev: A	

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- LEGEND**
- ORDER LIMITS
  - ABOVE GROUND LIMIT OF DEVIATION (LOD)
  - SECTION CUTLINES
  - EXISTING LATTICE PYLON TO BE REMOVED
  - EXISTING LATTICE PYLON NOT AFFECTED
  - EXISTING LATTICE PYLON TO BE MODIFIED
  - NEW LATTICE PYLON
  - NEW LOW HEIGHT LATTICE PYLON
  - NEW FULL LINE TENSION GANTRY
  - NEW GANTRY
  - GANTRY TO BE REMOVED
  - NEW OVERHEAD LINE
  - EXISTING OVERHEAD LINE NOT AFFECTED
  - EXISTING OVERHEAD LINE TO BE MODIFIED
  - EXISTING OVERHEAD LINE TO BE REMOVED
  - EXISTING 400KV OVERHEAD LINE
  - TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND
  - PROPOSED SUBSTATION EXTENSION FOOTPRINT
  - EXISTING 132KV OUTDOOR SUBSTATION
  - EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
  - PROPOSED SUBSTATION EXTENSION FOOTPRINT
  - EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT

- RESIDUAL EFFECT**
- MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

Scheme: NORTH WALES CONNECTION PROJECT

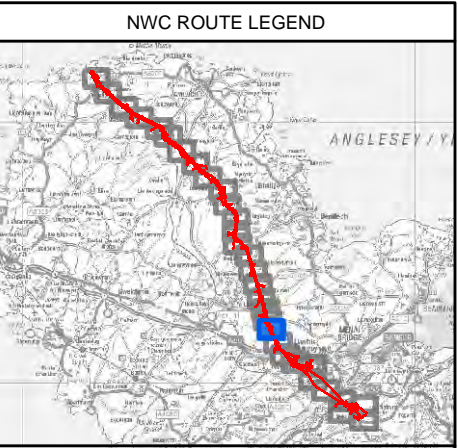
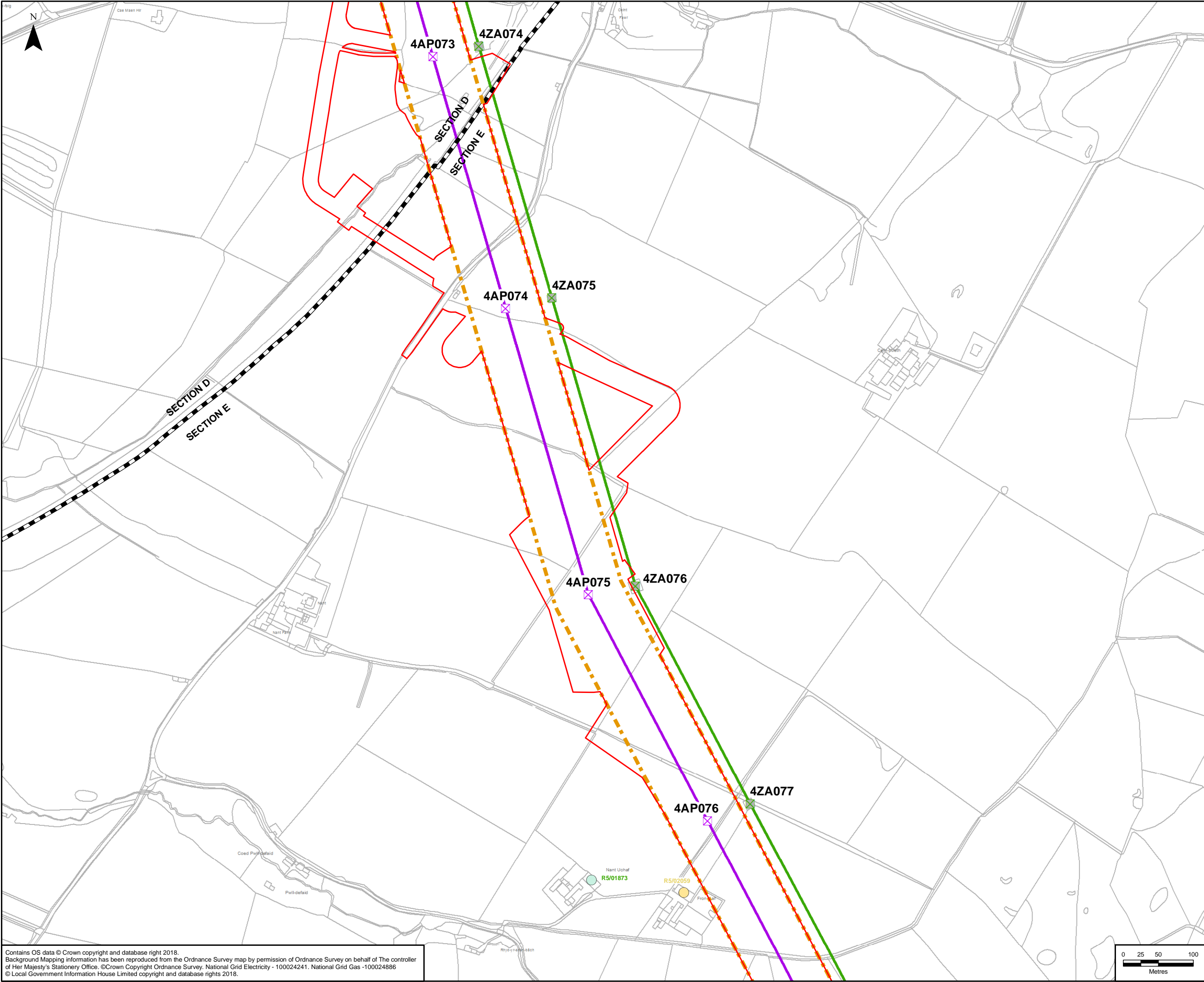
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Document Title: FIGURE 16.9  
OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION D

Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 20 of 31	Rev: A	

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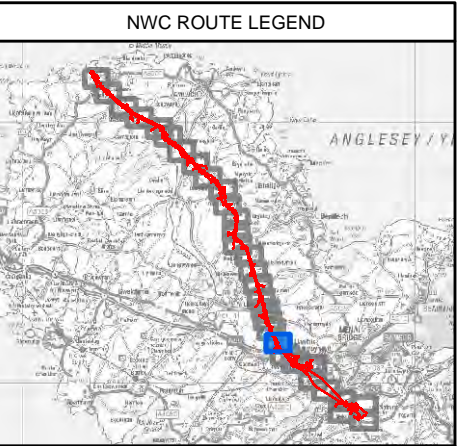
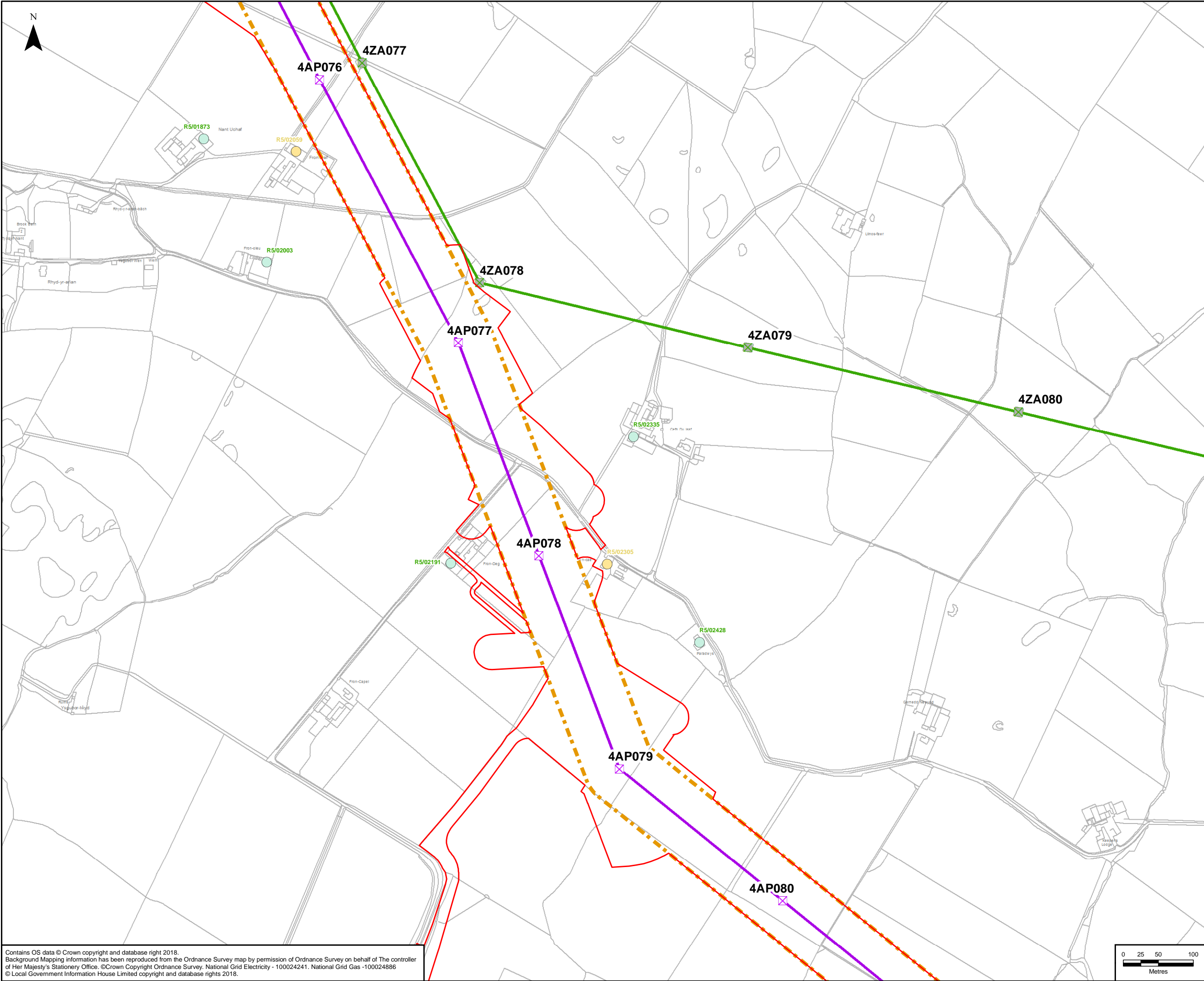


**LEGEND**

- ORDER LIMITS
- ABOVE GROUND LIMIT OF DEVIATION (LOD)
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON NOT AFFECTED
- EXISTING LATTICE PYLON TO BE MODIFIED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- NEW FULL LINE TENSION GANTRY
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE NOT AFFECTED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING 400KV OVERHEAD LINE
- TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT**
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.1.9					
Document Title: FIGURE 16.9 OPERATIONAL NOISE - RESIDUAL EFFECTS SECTION E					
Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 21 of 31	Rev: A	

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**LEGEND**

- ORDER LIMITS
- ABOVE GROUND LIMIT OF DEVIATION (LOD)
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON NOT AFFECTED
- EXISTING LATTICE PYLON TO BE MODIFIED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- NEW FULL LINE TENSION GANTRY
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE NOT AFFECTED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING 400KV OVERHEAD LINE
- TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

Scheme: NORTH WALES CONNECTION PROJECT

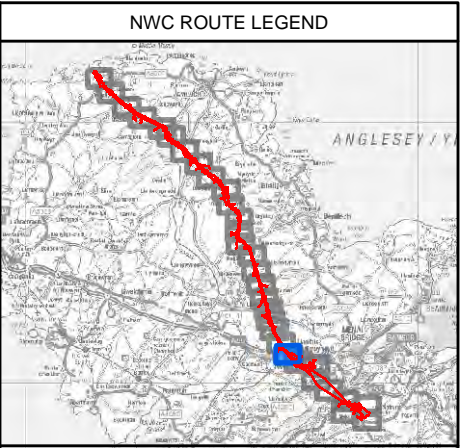
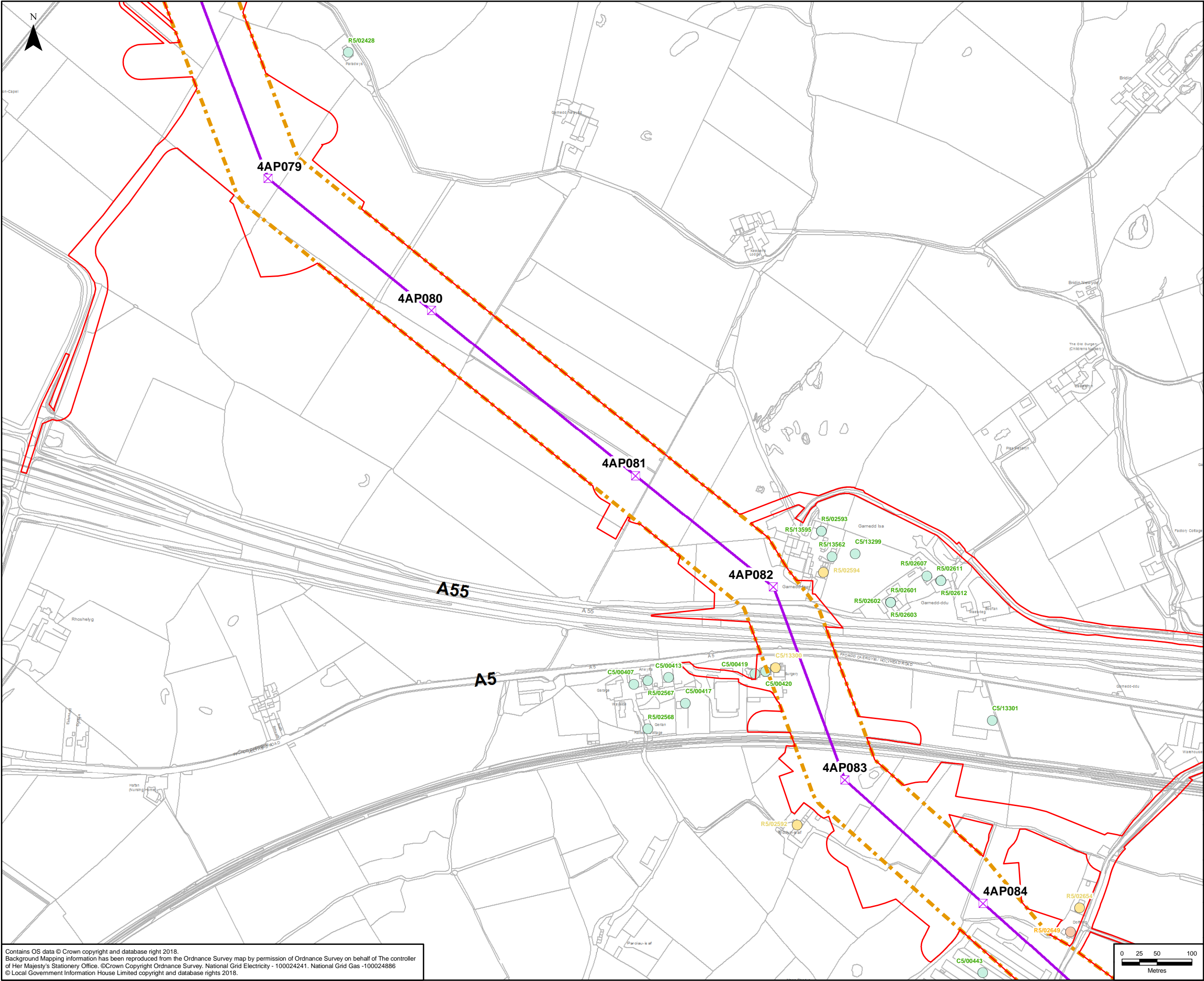
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Document Title: FIGURE 16.9  
OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION E


Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 22 of 31	Rev: A	

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LEGEND




ORDER LIMITS




ABOVE GROUND LIMIT OF DEVIATION (LOD)




SECTION CUTLINES




EXISTING LATTICE PYLON TO BE REMOVED




EXISTING LATTICE PYLON NOT AFFECTED




EXISTING LATTICE PYLON TO BE MODIFIED




NEW LATTICE PYLON




NEW LOW HEIGHT LATTICE PYLON




NEW FULL LINE TENSION GANTRY




NEW GANTRY




GANTRY TO BE REMOVED




NEW OVERHEAD LINE




EXISTING OVERHEAD LINE NOT AFFECTED




EXISTING OVERHEAD LINE TO BE MODIFIED




EXISTING OVERHEAD LINE TO BE REMOVED




EXISTING 400KV OVERHEAD LINE




TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND




PROPOSED SUBSTATION EXTENSION FOOTPRINT




EXISTING 132KV OUTDOOR SUBSTATION



EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT




PROPOSED SUBSTATION EXTENSION FOOTPRINT




EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT


RESIDUAL EFFECT



MODERATE (NOT SIGNIFICANT)



MINOR



NEGLIGIBLE

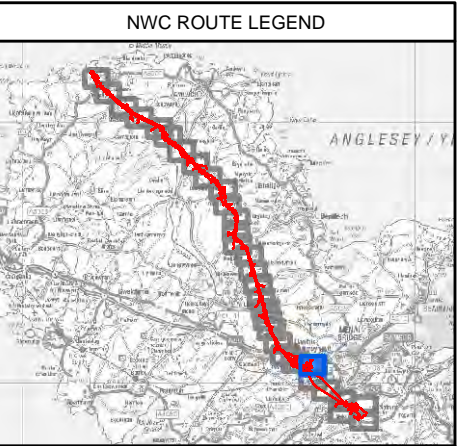
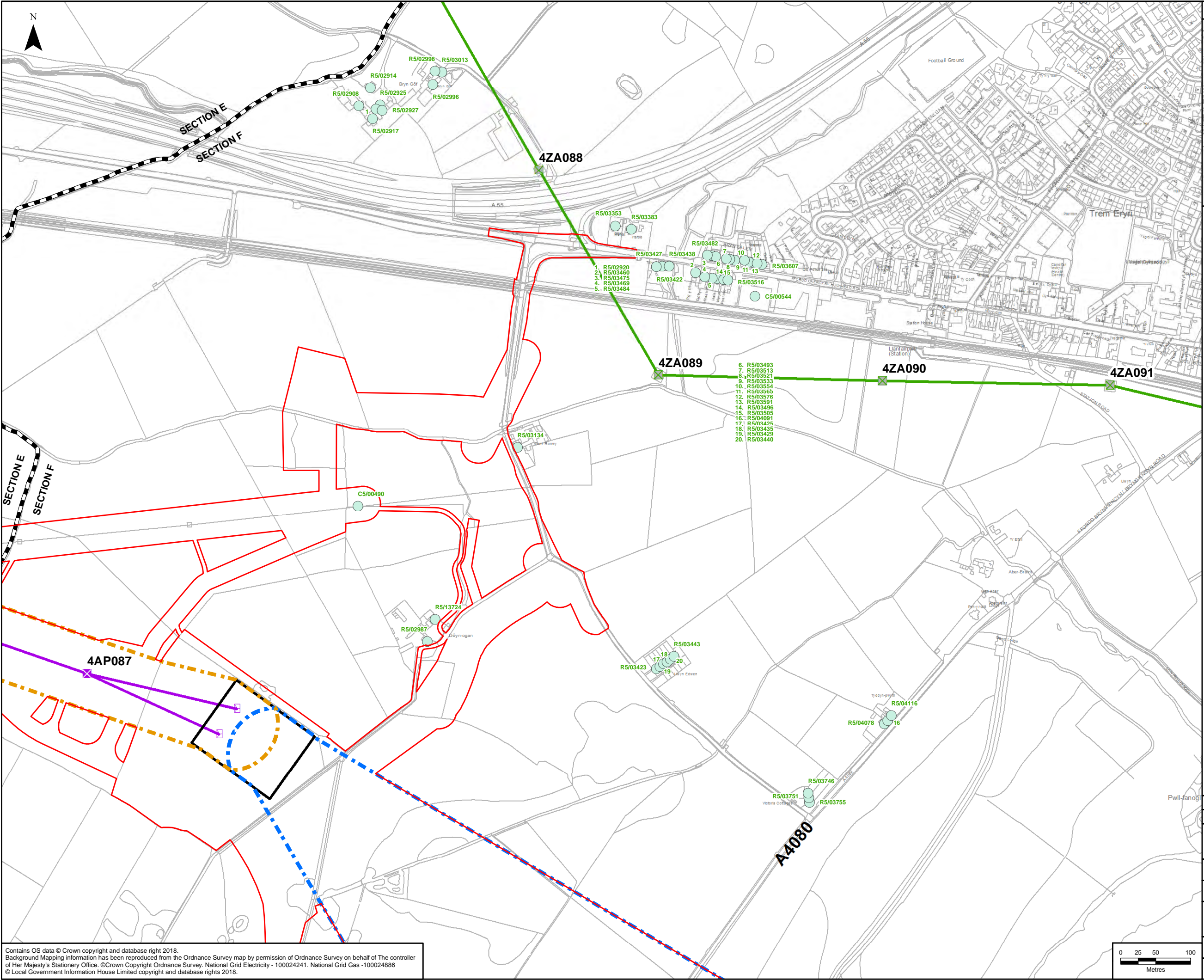
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Rev	Date	Description	GIS	Chk	App
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.1.9					
Document Title: FIGURE 16.9 OPERATIONAL NOISE - RESIDUAL EFFECTS SECTION E					
Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 23 of 31	Rev: A	

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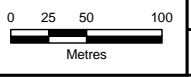


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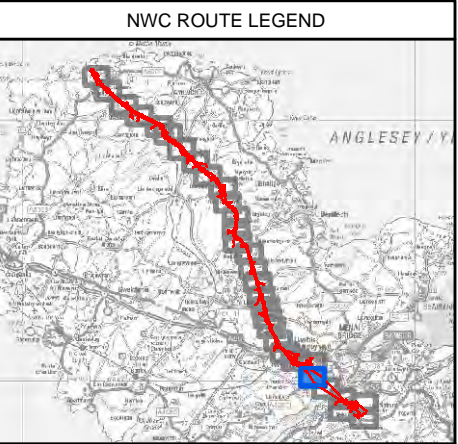
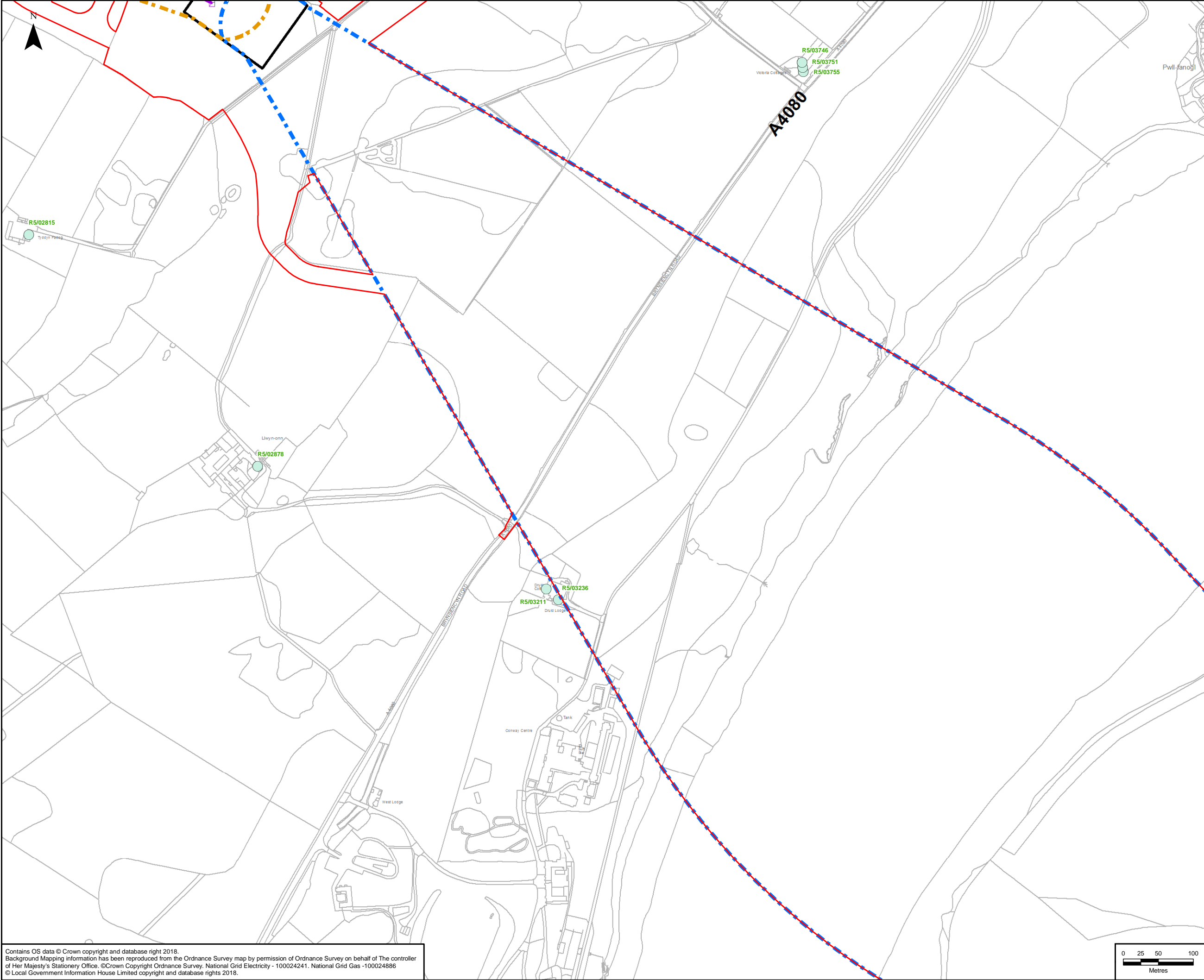
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- ABOVE GROUND LIMIT OF DEVIATION (LOD)
- BELOW GROUND LIMIT OF DEVIATION (LOD)
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON NOT AFFECTED
- EXISTING LATTICE PYLON TO BE MODIFIED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- NEW FULL LINE TENSION GANTRY
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE NOT AFFECTED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING 400KV OVERHEAD LINE
- TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.1.9					
Document Title: FIGURE 16.9 OPERATIONAL NOISE - RESIDUAL EFFECTS SECTION F					
Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 25 of 31	Rev: A	

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**LEGEND**

- ORDER LIMITS
- ABOVE GROUND LIMIT OF DEVIATION (LOD)
- BELOW GROUND LIMIT OF DEVIATION (LOD)
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON NOT AFFECTED
- EXISTING LATTICE PYLON TO BE MODIFIED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- NEW FULL LINE TENSION GANTRY
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE NOT AFFECTED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING 400KV OVERHEAD LINE
- TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

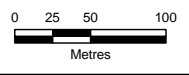
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Document Number: 5.16.1.9

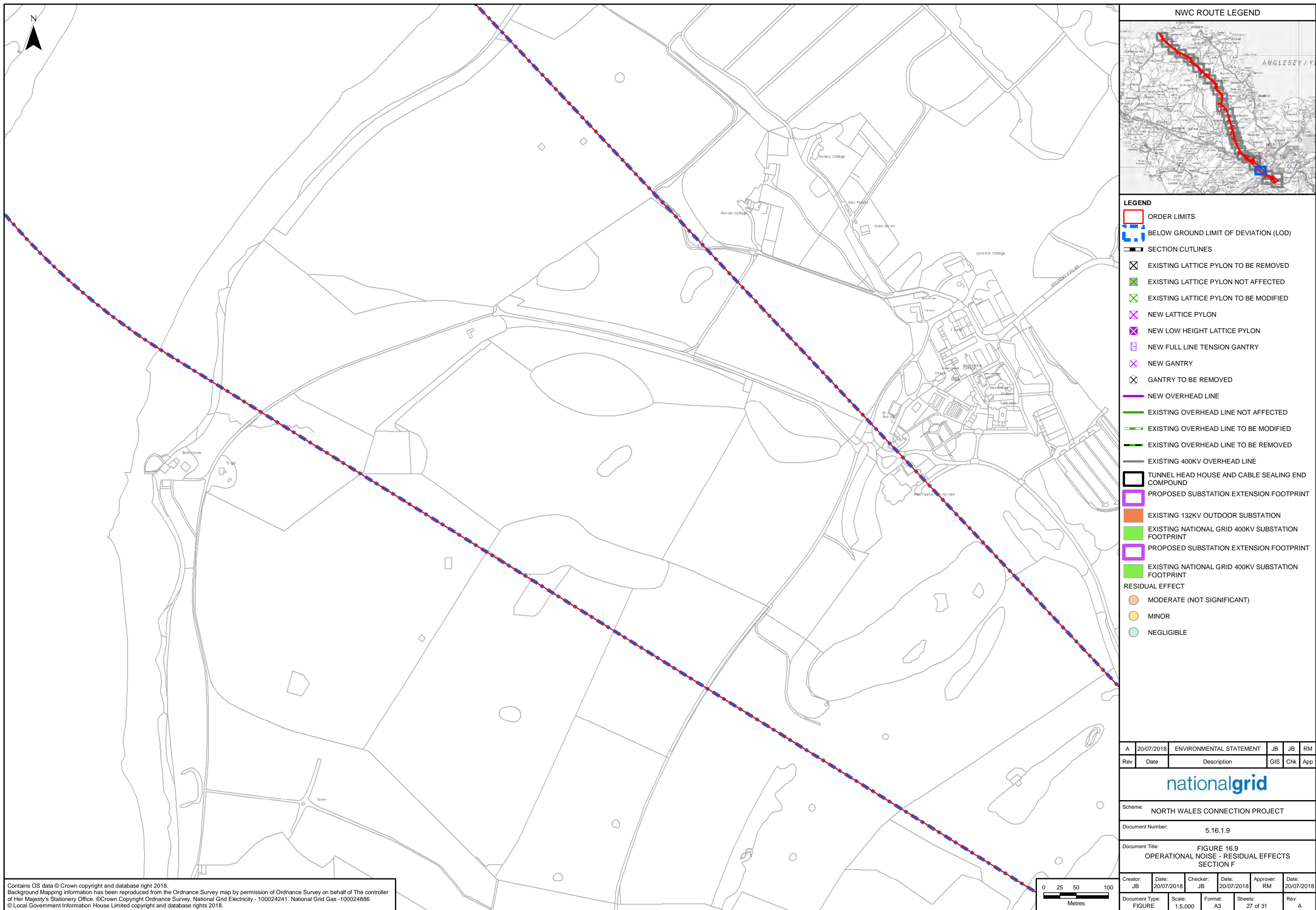
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OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION F

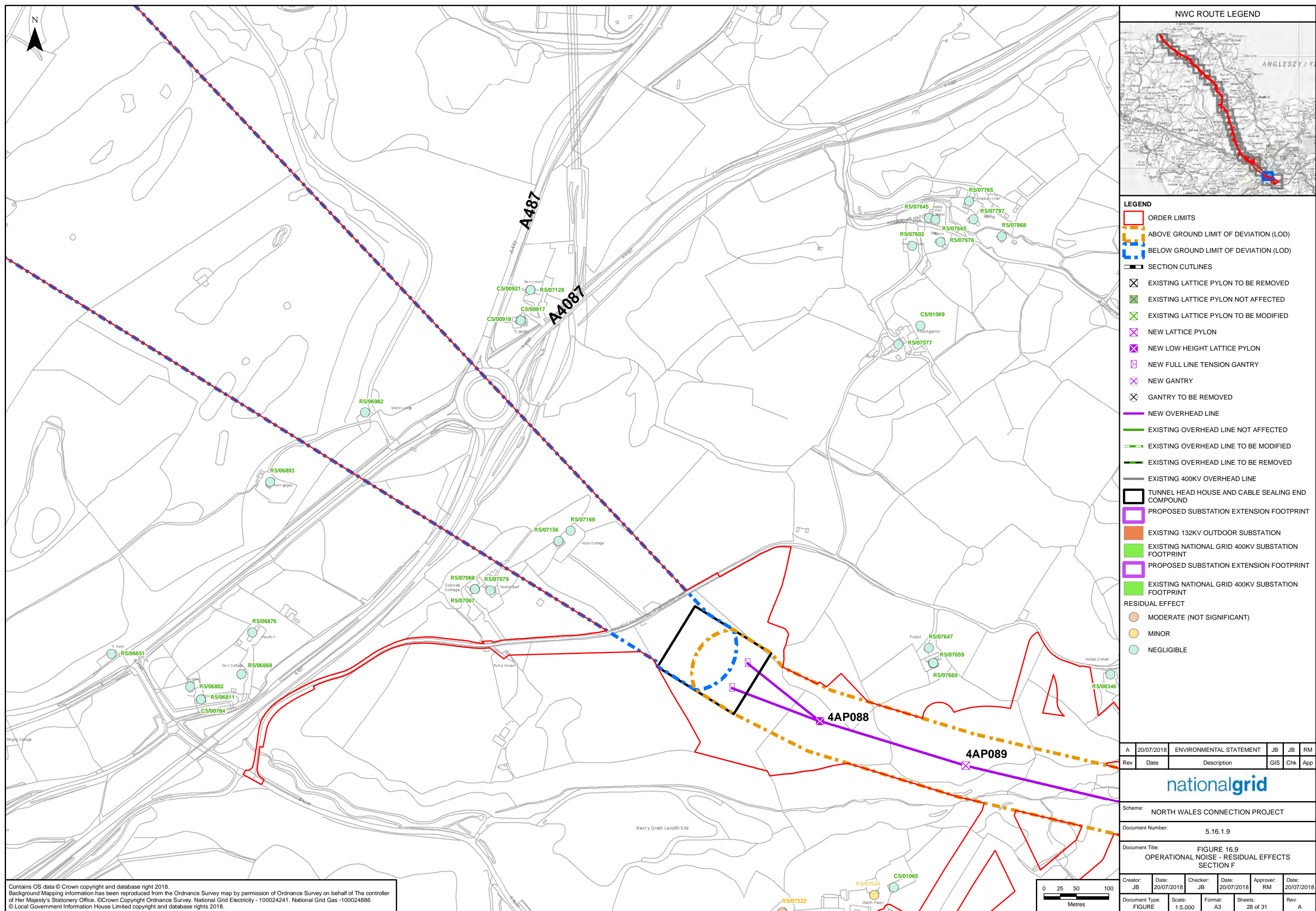
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Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 26 of 31	Rev: A	

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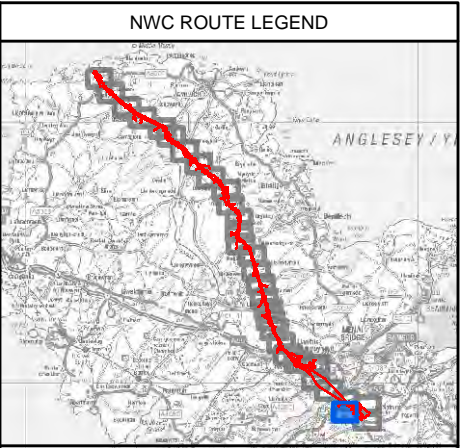
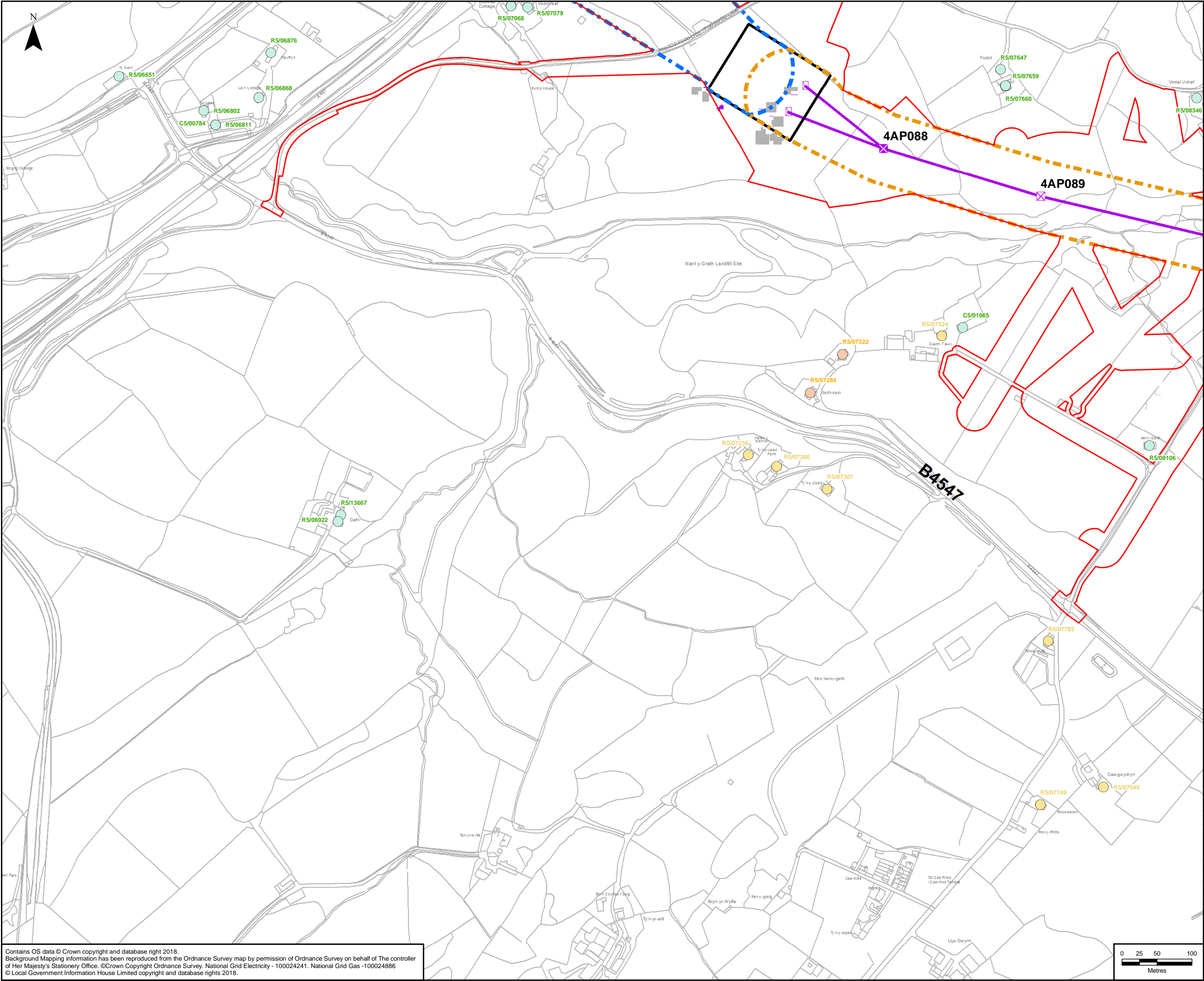










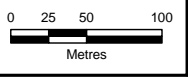


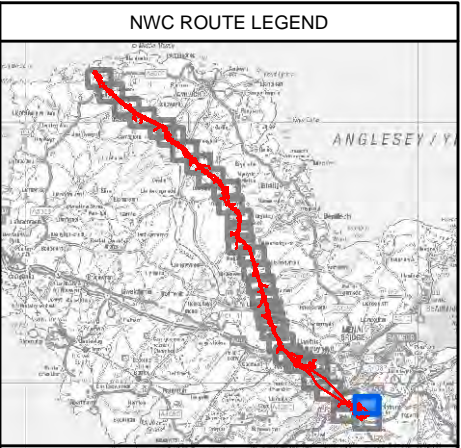
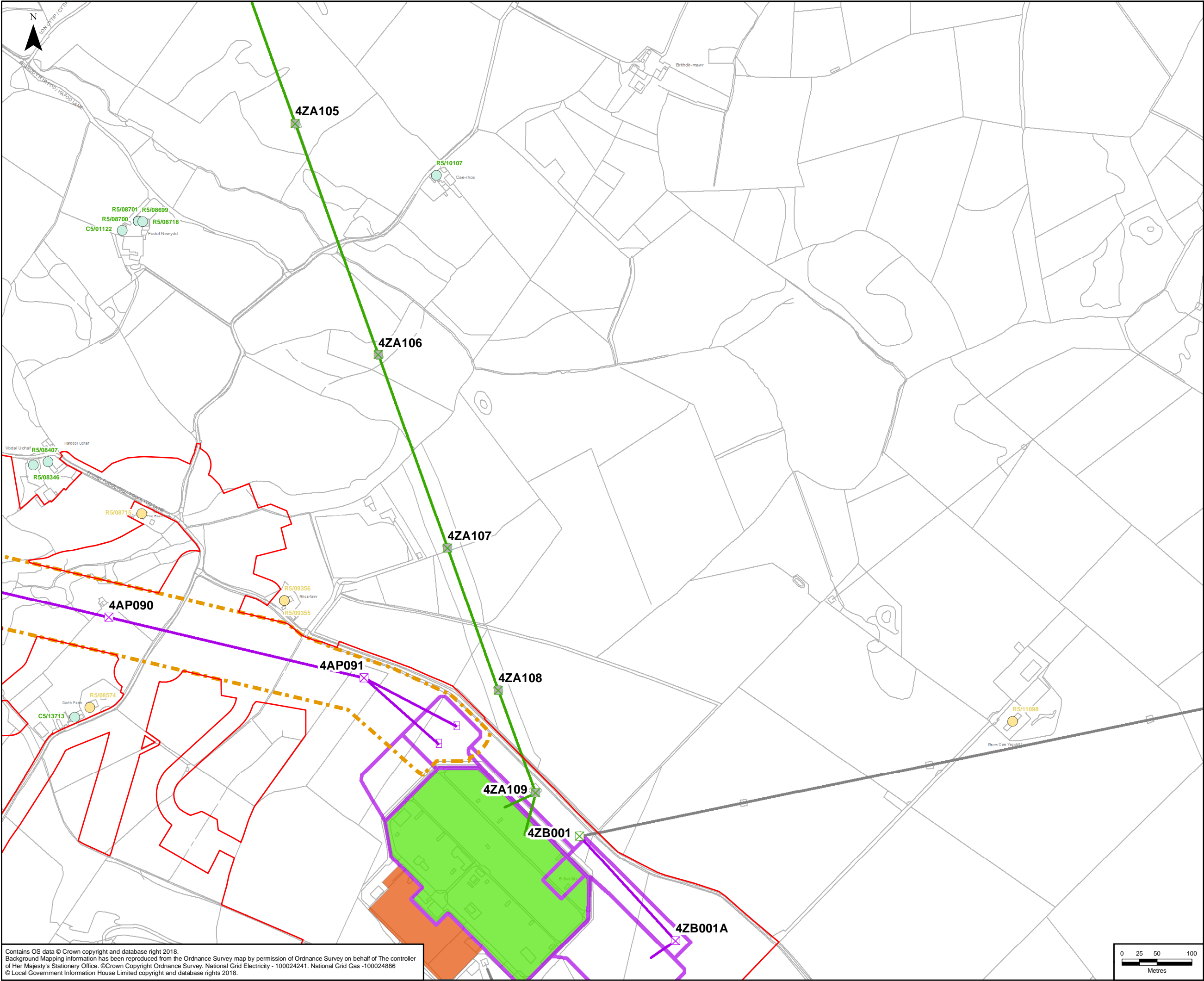
**LEGEND**

- ORDER LIMITS
- ABOVE GROUND LIMIT OF DEVIATION (LOD)
- BELOW GROUND LIMIT OF DEVIATION (LOD)
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON NOT AFFECTED
- EXISTING LATTICE PYLON TO BE MODIFIED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- NEW FULL LINE TENSION GANTRY
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE NOT AFFECTED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING 400KV OVERHEAD LINE
- TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGIGIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.1.9					
Document Title: FIGURE 16.9 OPERATIONAL NOISE - RESIDUAL EFFECTS SECTION F					
Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 29 of 31	Rev: A	

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**LEGEND**

- ORDER LIMITS
- ABOVE GROUND LIMIT OF DEVIATION (LOD)
- SECTION CUTLINES
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON NOT AFFECTED
- EXISTING LATTICE PYLON TO BE MODIFIED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- NEW FULL LINE TENSION GANTRY
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW OVERHEAD LINE
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- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- RESIDUAL EFFECT**
  - MODERATE (NOT SIGNIFICANT)
  - MINOR
  - NEGLIGIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

Scheme: NORTH WALES CONNECTION PROJECT

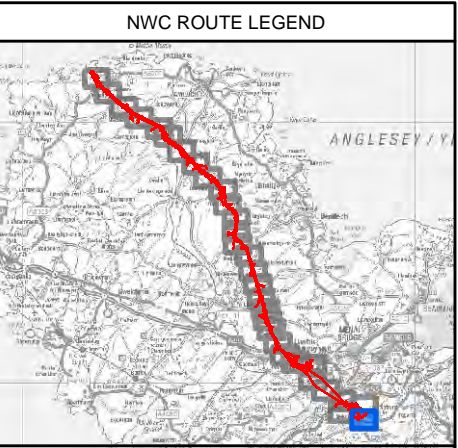
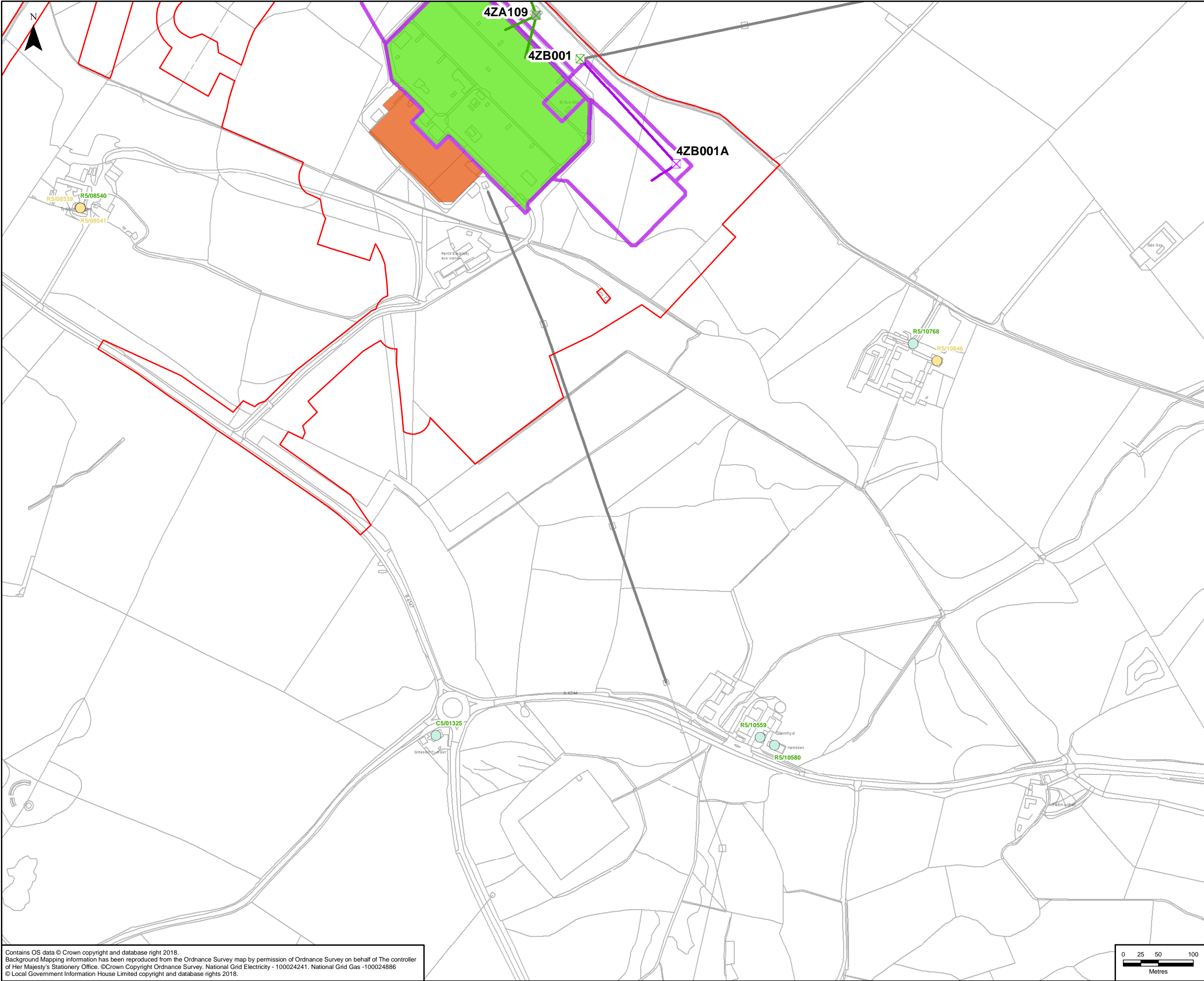
Document Number: 5.16.1.9

Document Title: FIGURE 16.9  
OPERATIONAL NOISE - RESIDUAL EFFECTS  
SECTION F


Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 30 of 31	Rev: A	

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LEGEND




ORDER LIMITS




SECTION CUTLINES




EXISTING LATTICE PYLON TO BE REMOVED




EXISTING LATTICE PYLON NOT AFFECTED




EXISTING LATTICE PYLON TO BE MODIFIED




NEW LATTICE PYLON




NEW LOW HEIGHT LATTICE PYLON




NEW FULL LINE TENSION GANTRY




NEW GANTRY




GANTRY TO BE REMOVED




NEW OVERHEAD LINE




EXISTING OVERHEAD LINE NOT AFFECTED




EXISTING OVERHEAD LINE TO BE MODIFIED




EXISTING OVERHEAD LINE TO BE REMOVED




EXISTING 400KV OVERHEAD LINE




TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND




PROPOSED SUBSTATION EXTENSION FOOTPRINT




EXISTING 132KV OUTDOOR SUBSTATION



EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT




PROPOSED SUBSTATION EXTENSION FOOTPRINT




EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT


RESIDUAL EFFECT



MODERATE (NOT SIGNIFICANT)



MINOR



NEGLECTIBLE

A	20/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App

Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.1.9					
Document Title: FIGURE 16.9 OPERATIONAL NOISE - RESIDUAL EFFECTS SECTION F					
Creator: JB	Date: 20/07/2018	Checker: JB	Date: 20/07/2018	Approver: RM	Date: 20/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 31 of 31	Rev: A	

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