

# **M3 Junction 9 Improvement Scheme**

**Scheme Number: TR010055**

## **6.2 Environmental Statement Chapter 11 Noise and Vibration – Figures (Rev 1)**

**APFP Regulations 5(2)(a)**

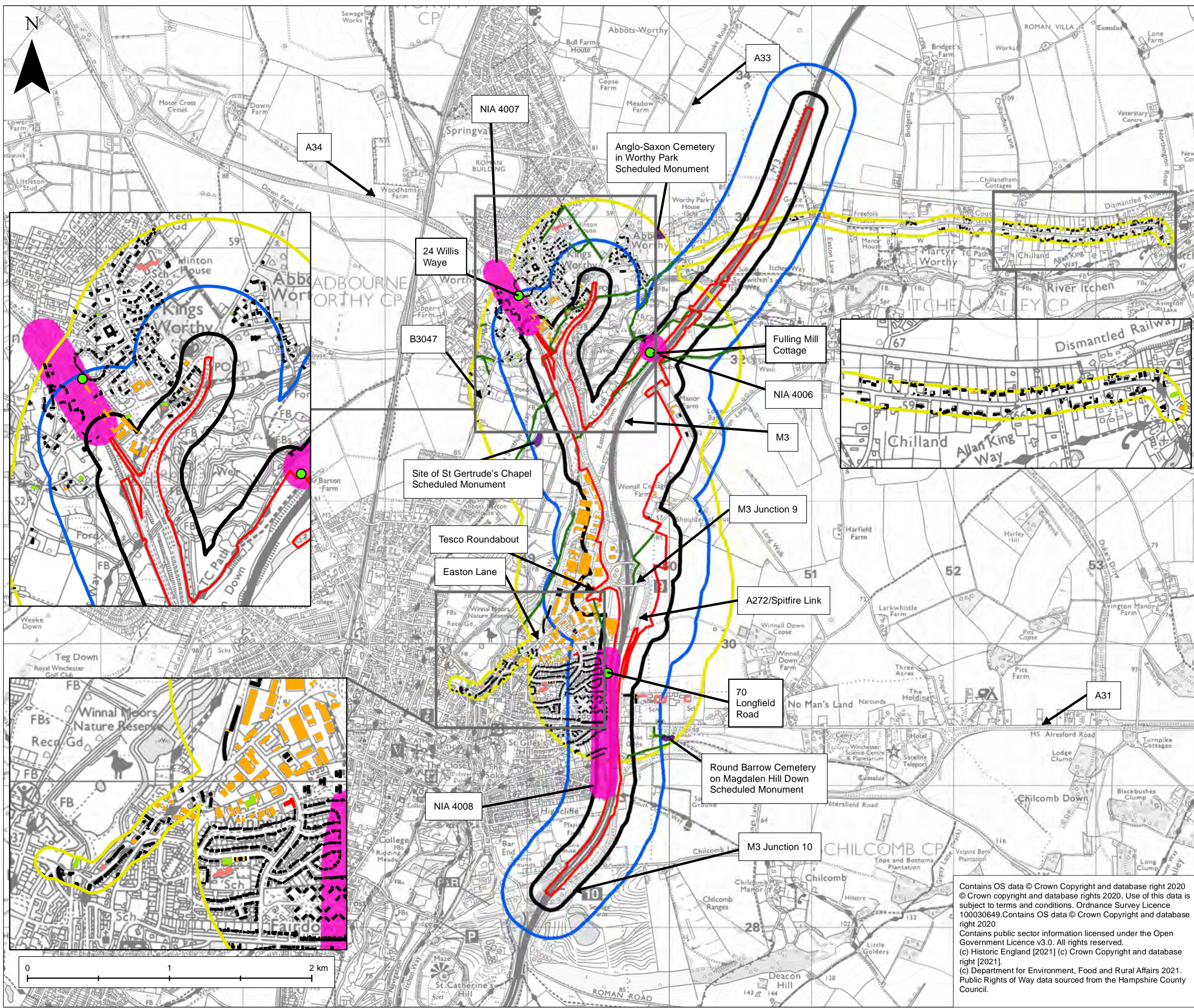
**Planning Act 2008**

**Infrastructure Planning (Applications: Prescribed Forms and  
Procedure) Regulations 2009**

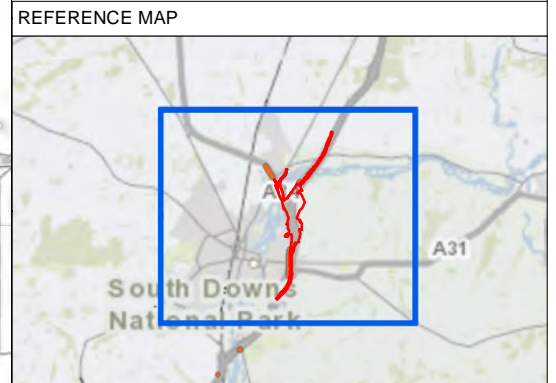
**Volume 6**

**15 June 2023**





- NOTES**  
 1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.
- Application Boundary
  - Noise Important Area
  - Study Area for Construction Noise (300m from Application Boundary)
  - Study Area for Construction Vibration (100m from Application Boundary)
  - Study Area for Operational Noise (600m from roads being modified, and 50m from roads experiencing 1dBA change in Opening Year)
  - Noise Monitoring Location
  - Residential Dwellings
  - Commercial Buildings
  - Community Uses Buildings
  - Educational Buildings
  - Healthcare Buildings
  - Scheduled Monuments
  - Public Rights of Way



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0	November 2022	APPLICATION SUBMISSION	LW	LW	AS

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**CONTRACTOR**

**CLIENT**

**PROJECT TITLE**  
 M3 JUNCTION 9 IMPROVEMENT SCHEME

**PROJECT STAGE**  
 PCF STAGE 3

**DRAWING TITLE**  
 FIGURE 11.1 - NOISE AND VIBRATION: M3 JUNCTION 9 NOISE STUDY AREAS, NOISE MEASUREMENT LOCATIONS AND RECEPTORS  
 AFPP REGULATION 5(2)(a)  
 DOCUMENT REFERENCE 6.2

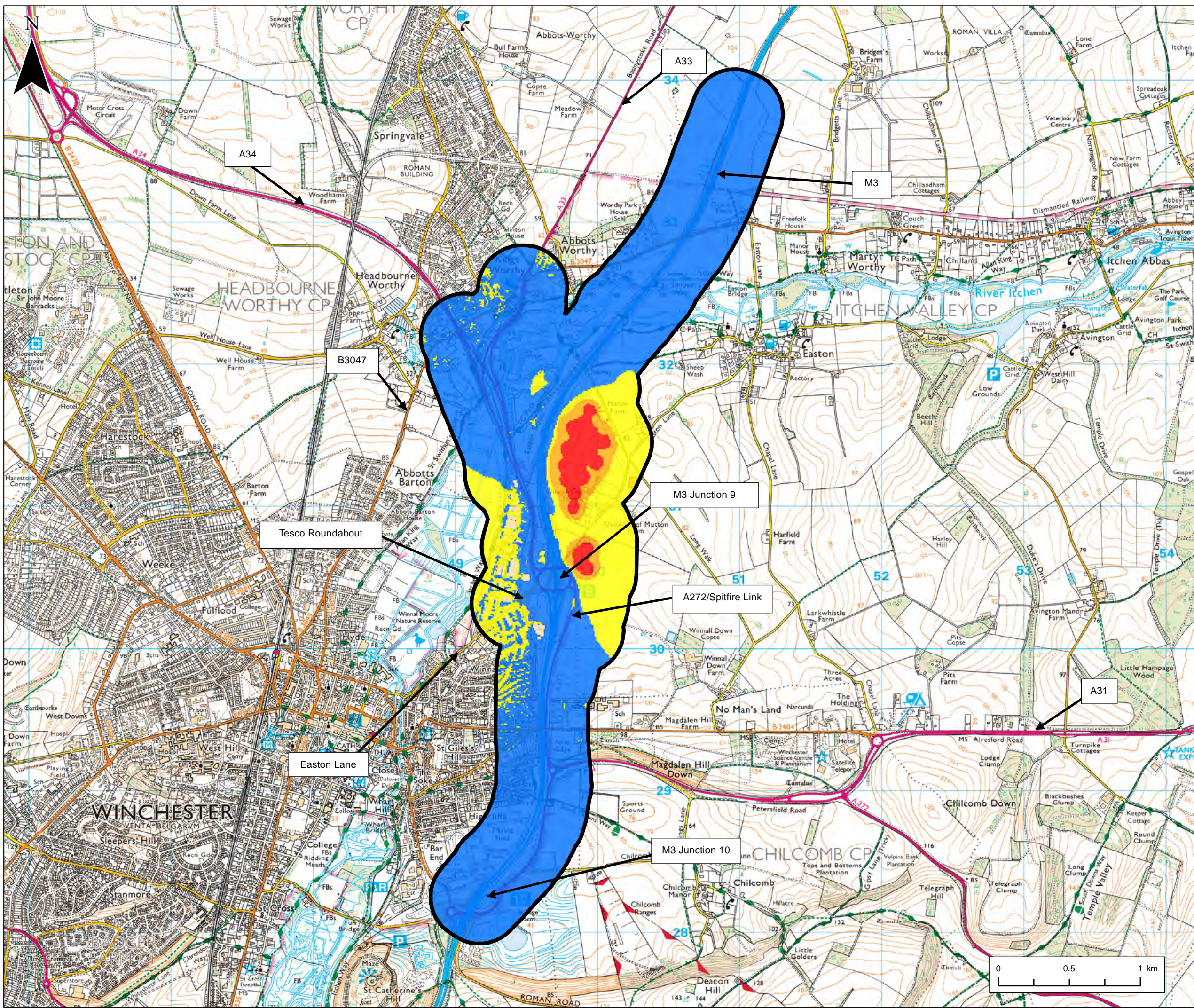
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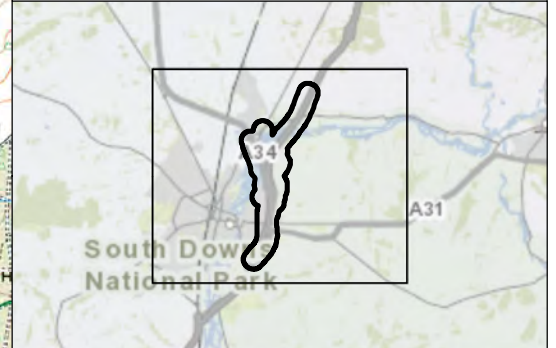


NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

- Study Area for Construction Noise, 300m from Application Boundary**
- Magnitude of Adverse**
- Major
  - Moderate
  - Minor
  - Negligible

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**Stantec**

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**VolkerFitzpatrick**

CLIENT  
**national highways**

PROJECT TITLE  
**M3 JUNCTION 9 IMPROVEMENT SCHEME**

PROJECT STAGE  
**PCF STAGE 3**

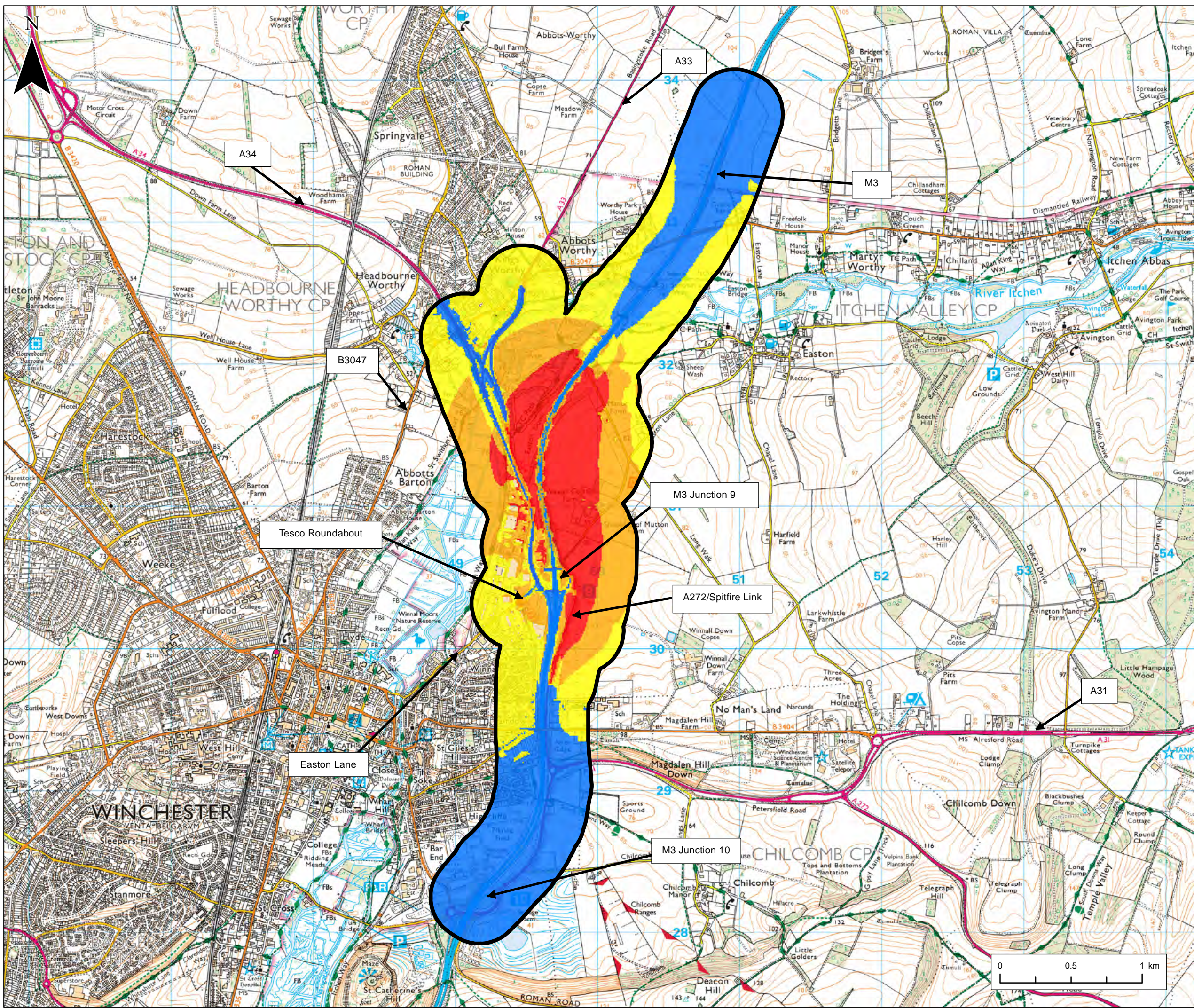
DRAWING TITLE  
FIGURE 11.2  
PHASE 0 - DAYTIME CONSTRUCTION NOISE IMPACTS  
APFP REGULATION 5(2)(a)  
DOCUMENT REFERENCE 6.2

SUITABILITY  
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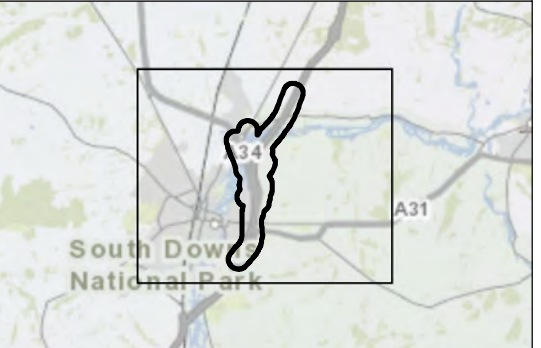


NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

- Study Area for Construction Noise, 300m from Application Boundary
- Magnitude of Adverse Impact**
- Major
- Moderate
- Minor
- Negligible

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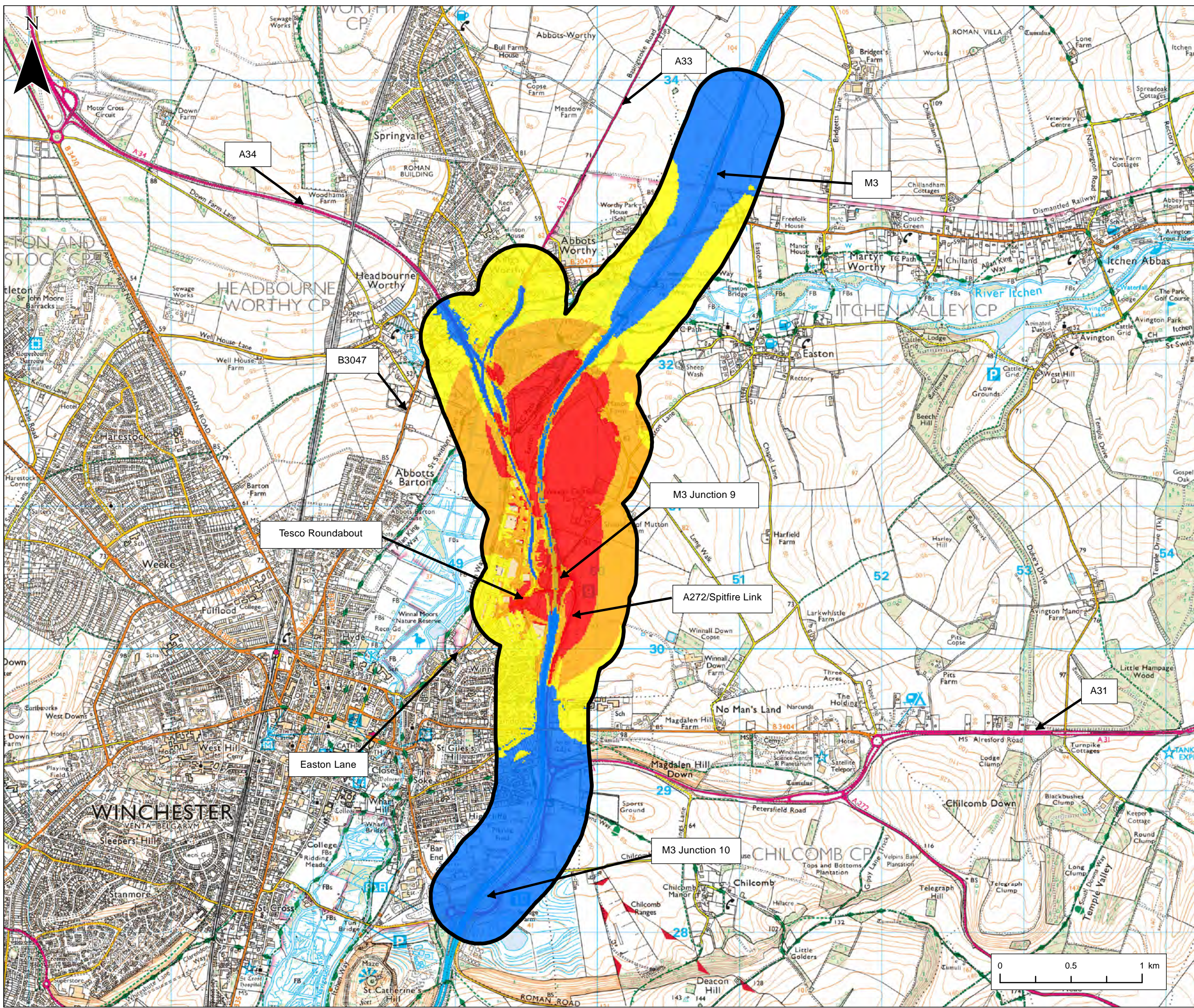
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FIGURE 11.3  
PHASE 1 - DAYTIME CONSTRUCTION NOISE IMPACTS  
APFP REGULATION 5(2)(a)  
DOCUMENT REFERENCE 6.2

SUITABILITY  
**APPLICATION SUBMISSION**

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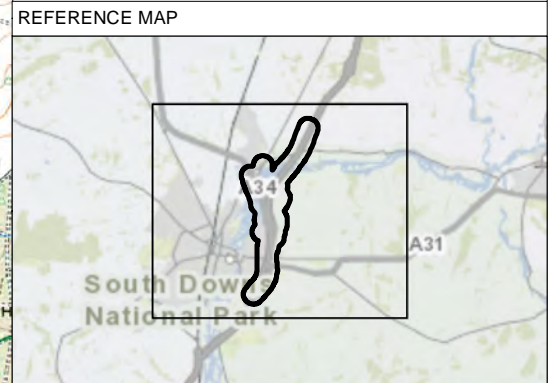
NOTES  
 1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

**Study Area for Construction Noise, 300m from Application Boundary**

**Magnitude of Adverse Impact**

- Major
- Moderate
- Minor
- Negligible

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FIGURE 11.4  
 PHASE 1A - DAYTIME CONSTRUCTION NOISE IMPACTS  
 APPFP REGULATION 5(2)(a)  
 DOCUMENT REFERENCE 6.2

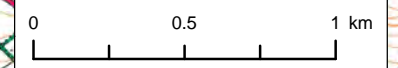
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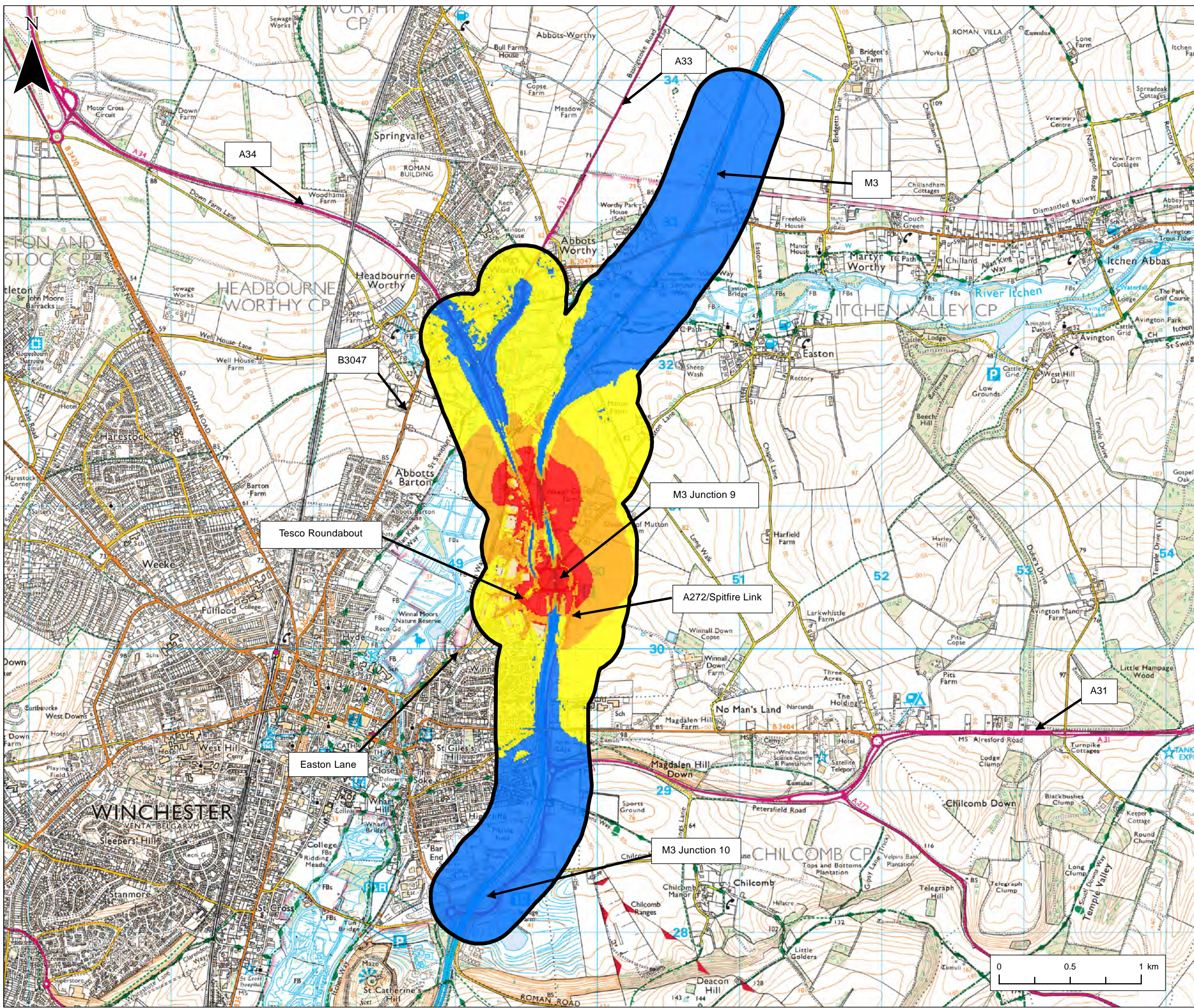
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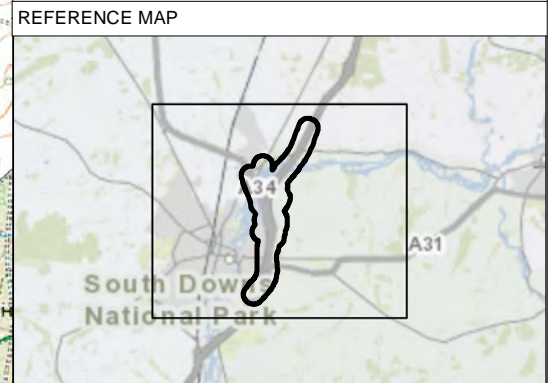
NOTES  
 1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

Study Area for Construction Noise, 300m from Application Boundary

**Magnitude of Adverse Impact**

- Major
- Moderate
- Minor
- Negligible

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FIGURE 11.5  
 PHASE 1B - DAYTIME CONSTRUCTION NOISE IMPACTS  
 APPFP REGULATION 5(2)(a)  
 DOCUMENT REFERENCE 6.2

SUITABILITY

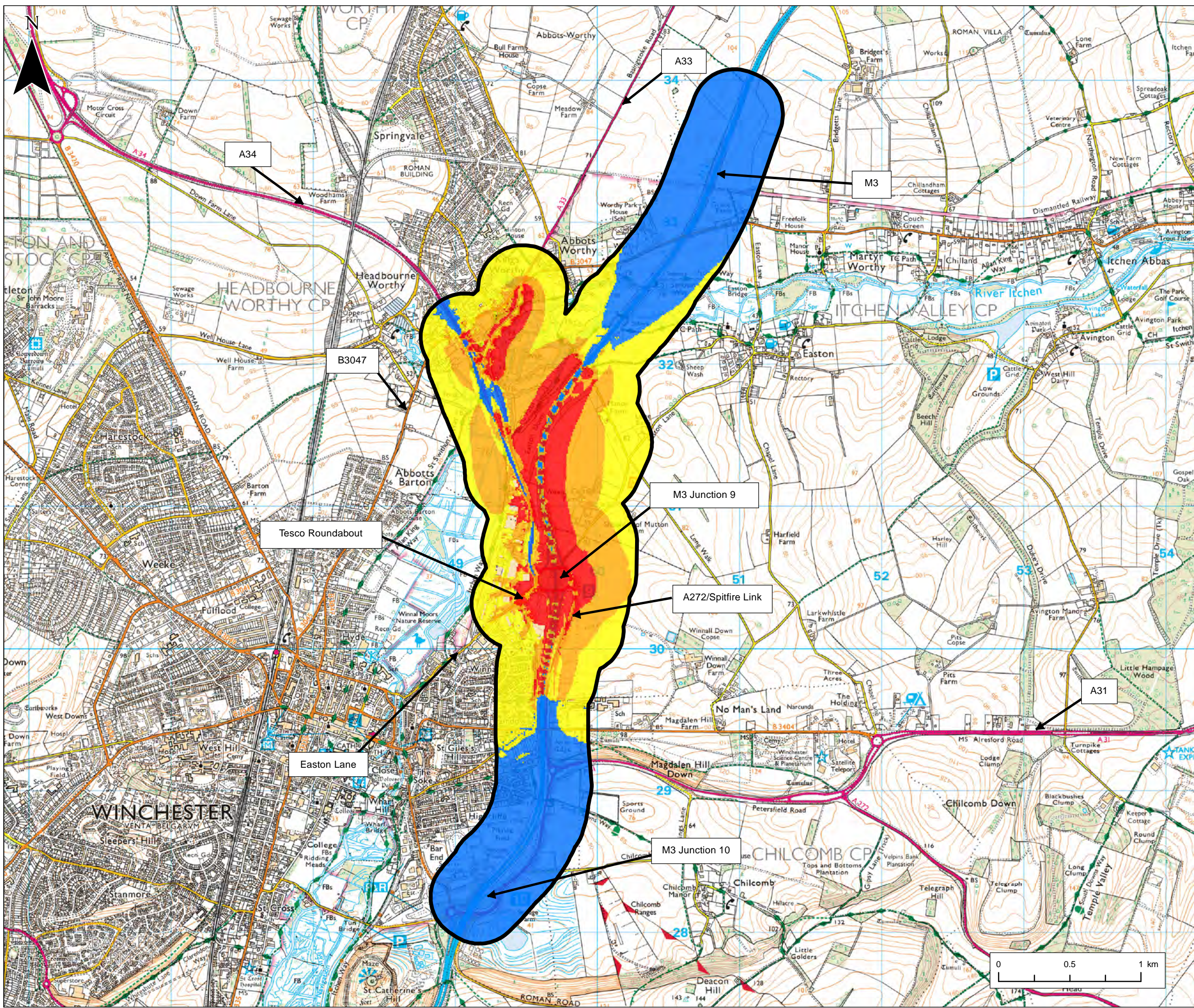
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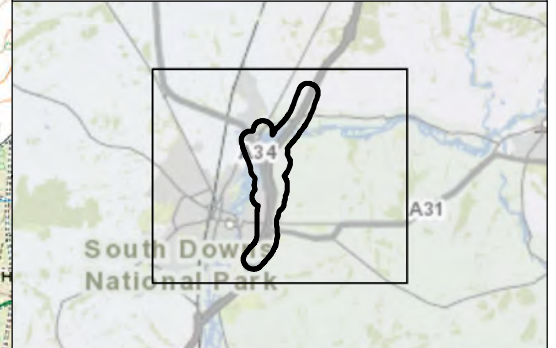


NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

- Study Area for Construction Noise, 300m from Application Boundary
- Magnitude of Adverse Impact**
- Major
- Moderate
- Minor
- Negligible

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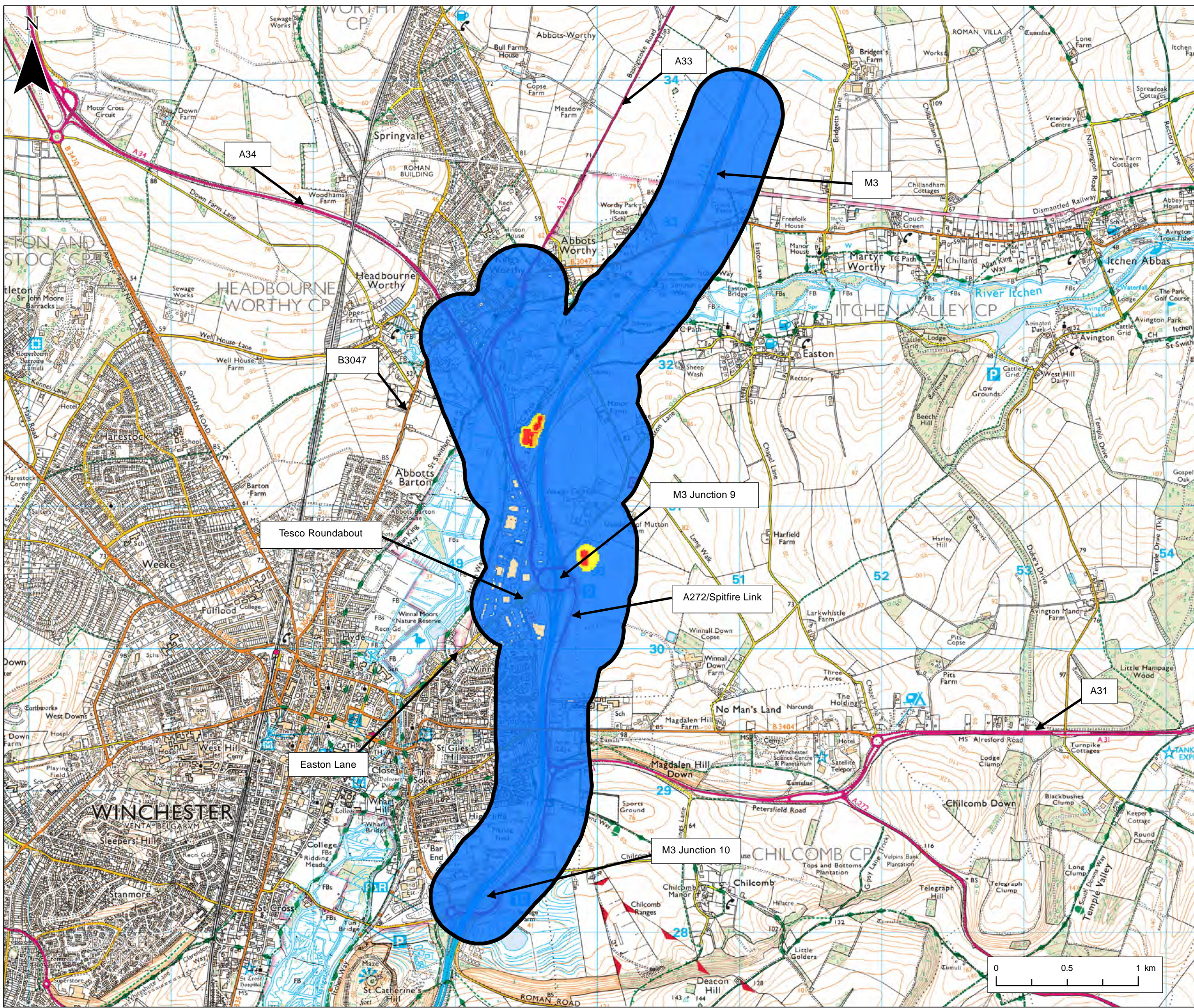
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FIGURE 11.6  
PHASE 2 - DAYTIME CONSTRUCTION NOISE IMPACTS  
APFP REGULATION 5(2)(a)  
DOCUMENT REFERENCE 6.2

SUITABILITY  
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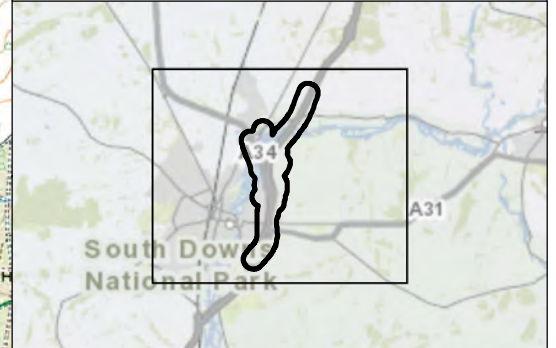


NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

- Study Area for Construction Noise, 300m from Application Boundary
- Magnitude of Adverse Impact**
- Major
- Moderate
- Minor
- Negligible

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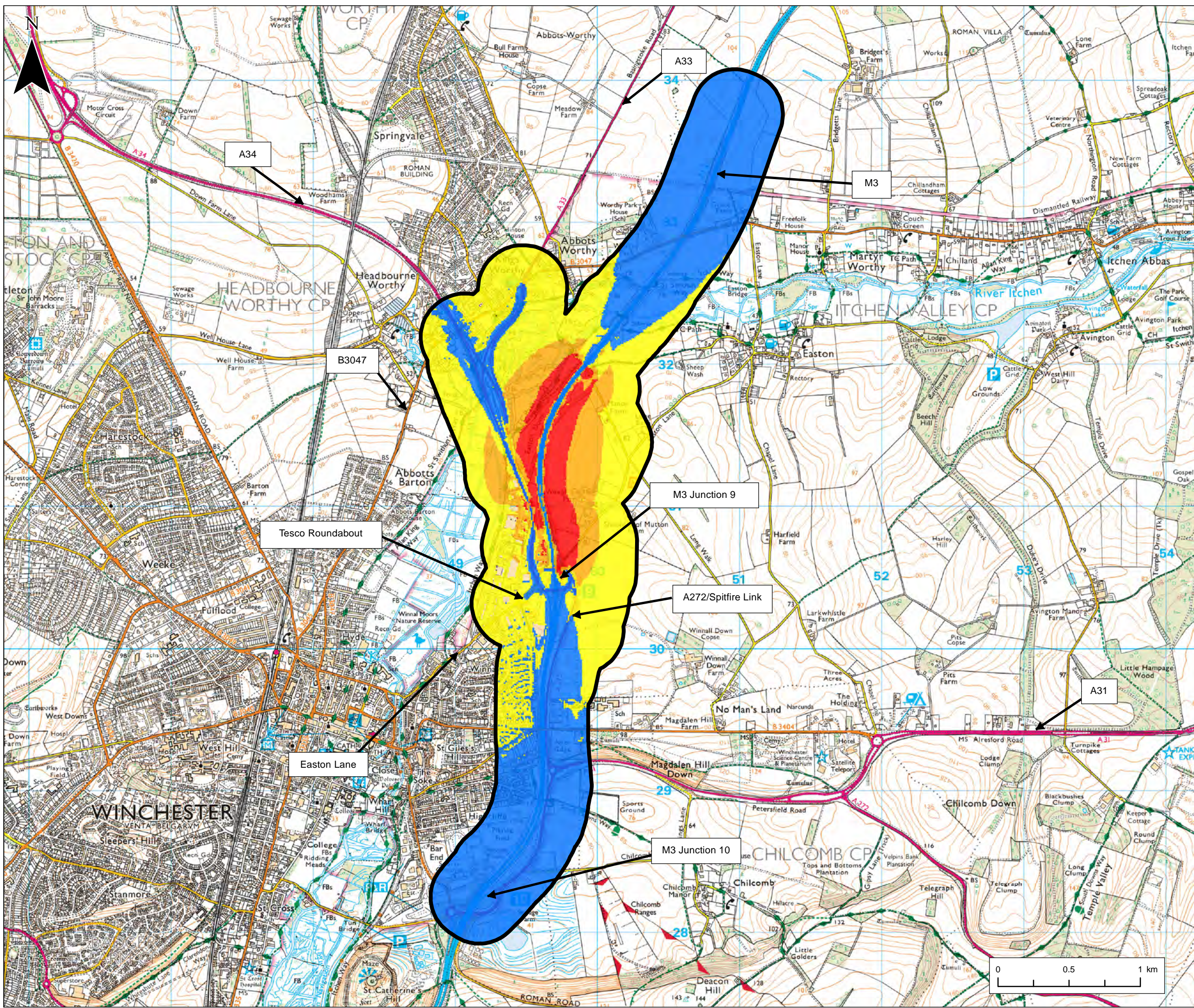
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FIGURE 11.7  
PHASE 3 - DAYTIME CONSTRUCTION NOISE IMPACTS  
APFP REGULATION 5(2)(a)  
DOCUMENT REFERENCE 6.2

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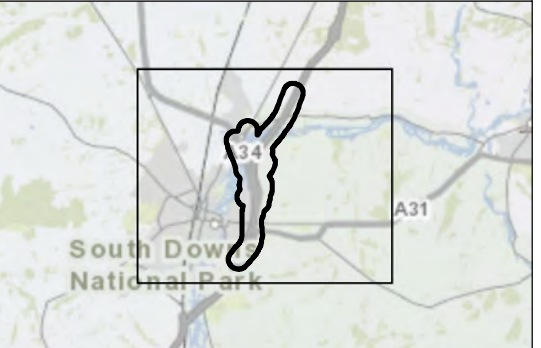


NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

- Study Area for Construction Noise, 300m from Application Boundary**
- Magnitude of Adverse Impact**
- Major
  - Moderate
  - Minor
  - Negligible

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CONTRACTOR  
**VolkerFitzpatrick**

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**national highways**

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**M3 JUNCTION 9 IMPROVEMENT SCHEME**

PROJECT STAGE  
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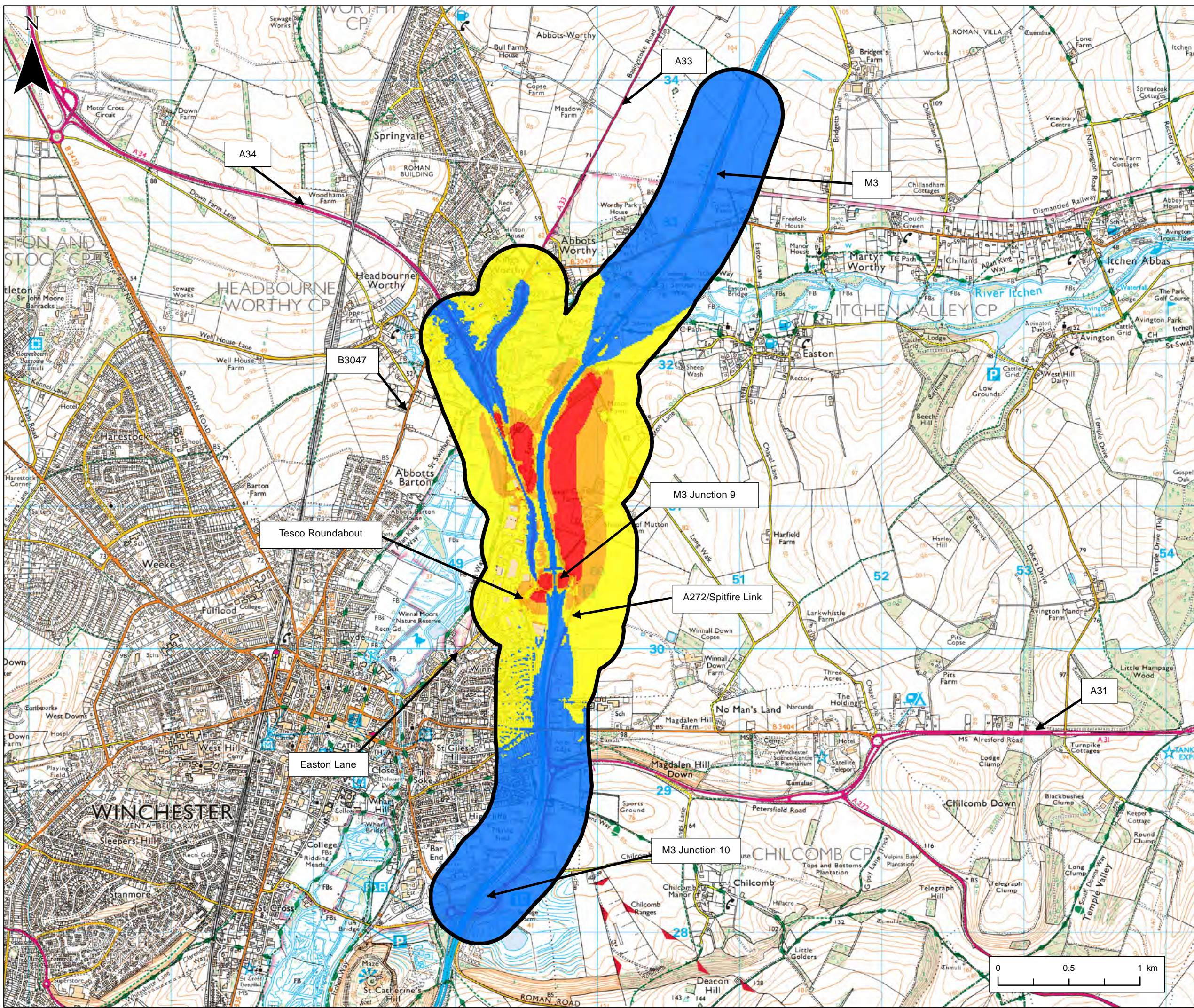
DRAWING TITLE  
FIGURE 11.8  
PHASE 3A - DAYTIME CONSTRUCTION NOISE IMPACTS  
APFP REGULATION 5(2)(a)  
DOCUMENT REFERENCE 6.2

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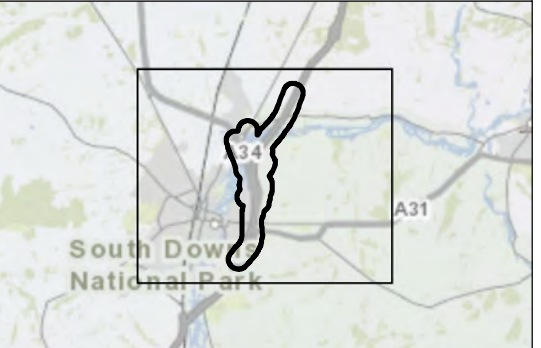


NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

- Study Area for Construction Noise, 300m from Application Boundary
- Magnitude of Adverse Impact**
- Major
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- Minor
- Negligible

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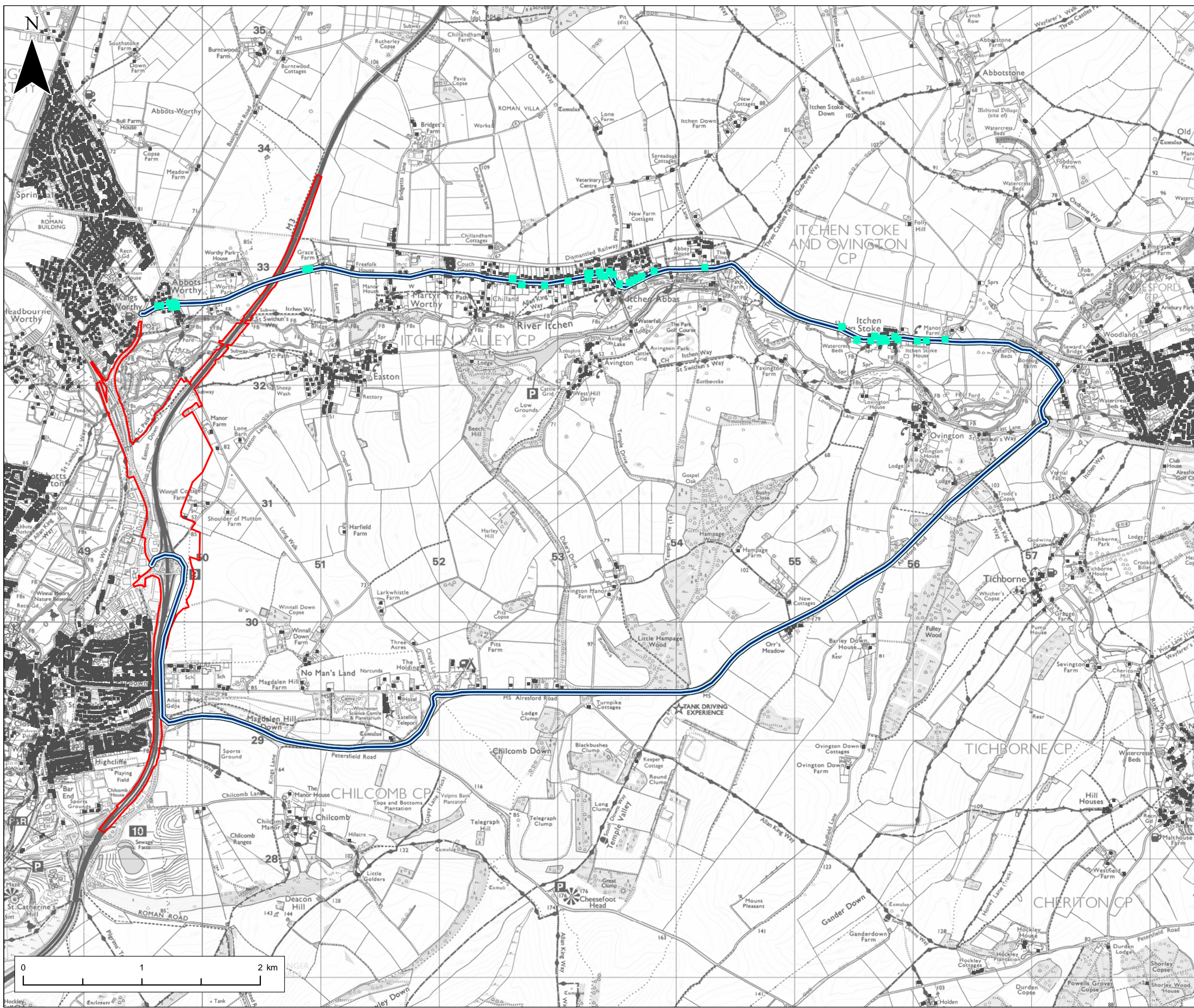
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FIGURE 11.9  
PHASE 3B - DAYTIME CONSTRUCTION NOISE IMPACTS  
APFP REGULATION 5(2)(a)  
DOCUMENT REFERENCE 6.2

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**NOTES**  
 1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

**Legend**

- Application Boundary
- A33 Northbound Diversion
- 25m Buffer From A33
- Northbound Diversion
- Dwellings
- Dwellings (53) Within 25m of Diversion Route

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**CONTRACTOR**

**CLIENT**

**PROJECT TITLE**  
 M3 JUNCTION 9 IMPROVEMENT SCHEME

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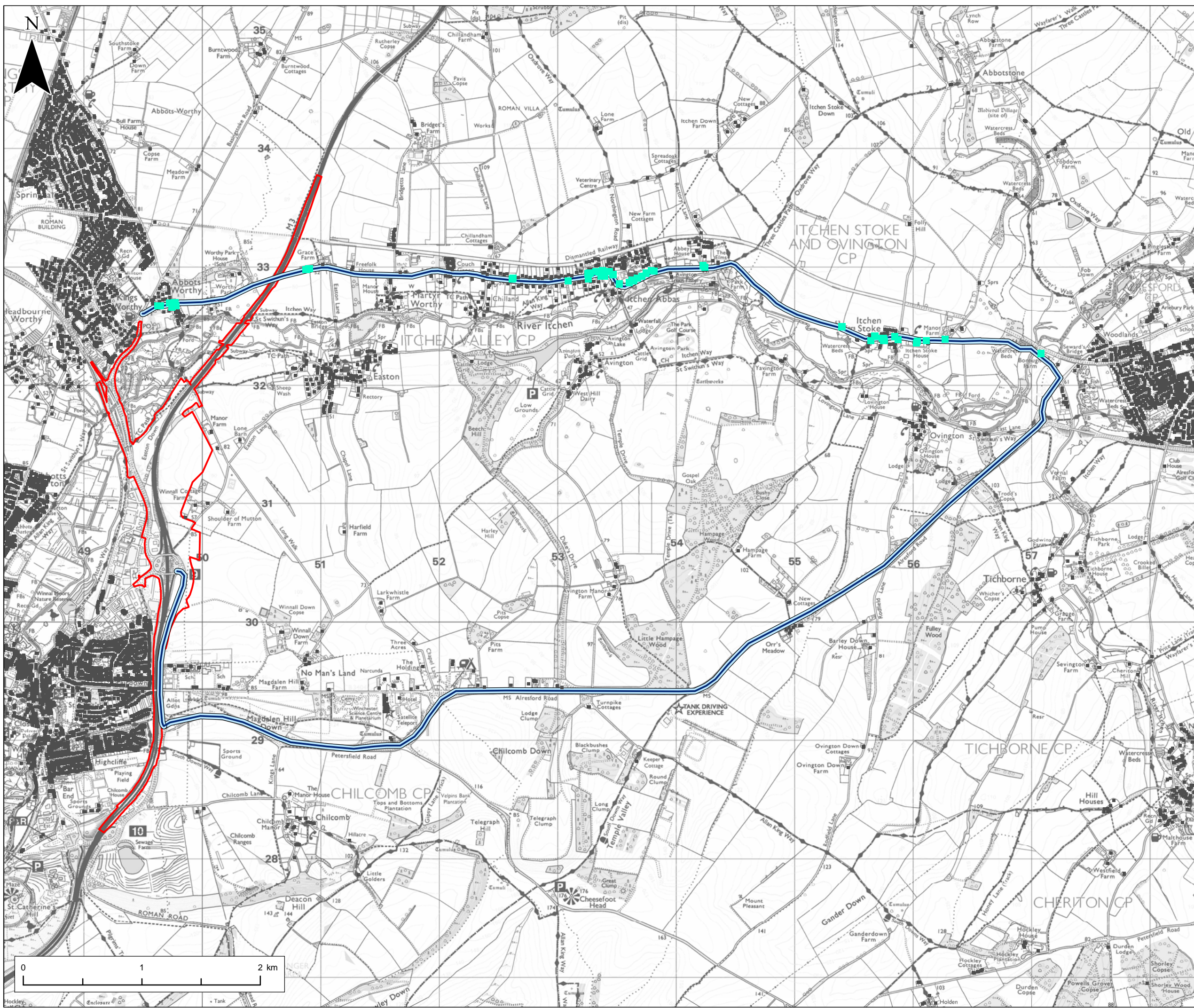
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 FIGURE 11.10 - NOISE AND VIBRATION: A33 NORTHBOUND DIVERSION NIGHT-TIME NOISE IMPACTS APFP REGULATION 5(2)(a) DOCUMENT REFERENCE 6.2

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 HE551511-VFK-ENV-X\_XXXXX\_XX\_DR\_LA\_0109





NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

**Legend**

- Application Boundary
- A33 Southbound Diversion
- 25m Buffer From A33
- Southbound Diversion
- Dwellings
- Dwellings (56) Within 25m of Diversion Route

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**M3 JUNCTION 9 IMPROVEMENT SCHEME**

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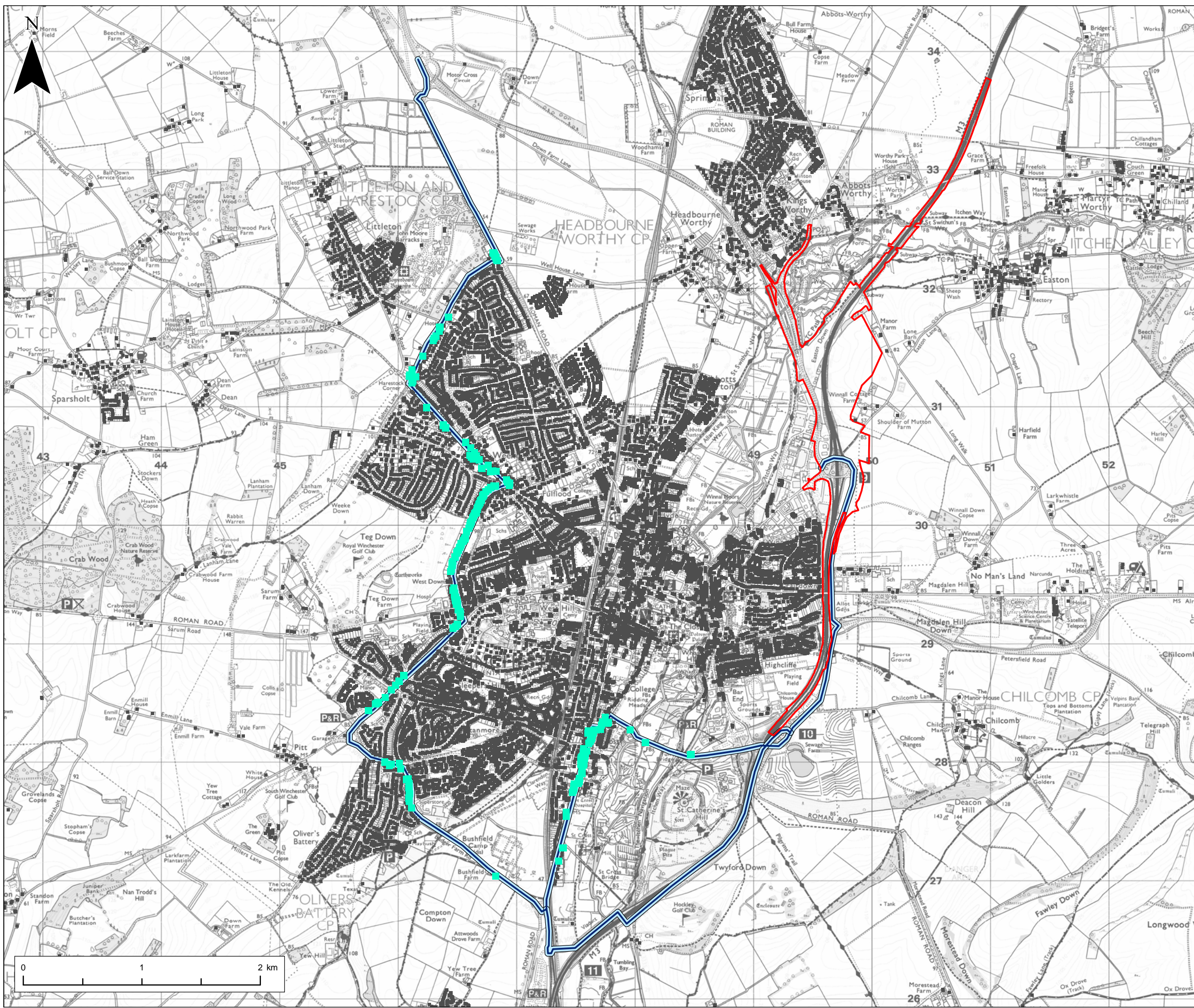
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**FIGURE 11.11 - NOISE AND VIBRATION: A33 SOUTHBOUND DIVERSION NIGHT-TIME NOISE IMPACTS APFP REGULATION 5(2)(a) DOCUMENT REFERENCE 6.2**

SUITABILITY  
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SHEET SIZE: A3    SCALE: 1:30,000    STATUS: REV 0

DRAWING NUMBER  
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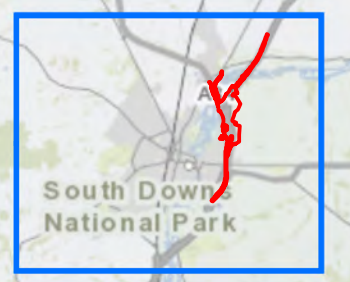


NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

- Legend**
- Application Boundary
  - A34 Northbound Diversion
  - 25m Buffer From A34
  - Dwellings
  - Dwellings (267) Within 25m of Diversion Route

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**M3 JUNCTION 9 IMPROVEMENT SCHEME**

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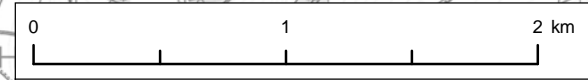
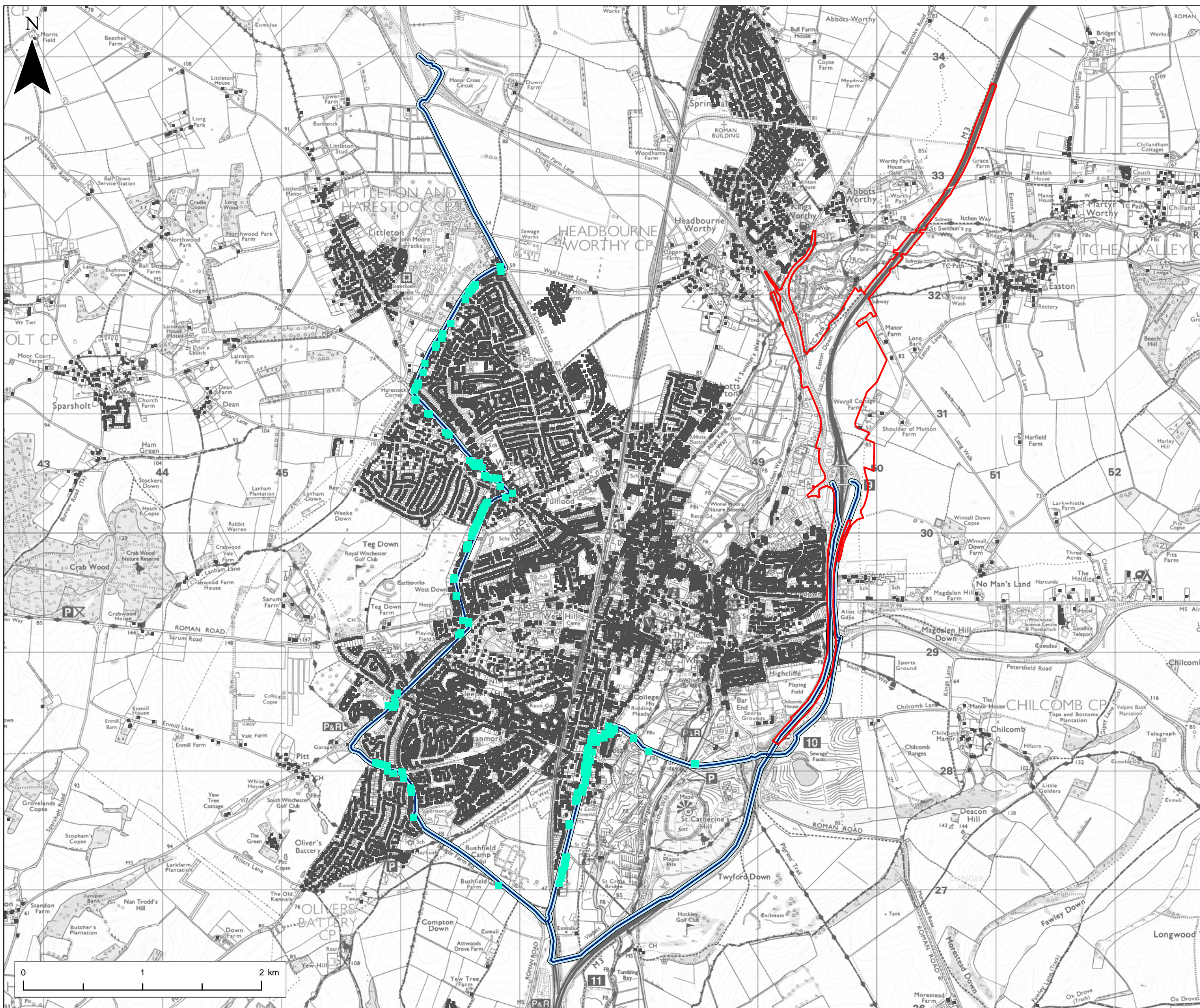
DRAWING TITLE  
FIGURE 11.12 - NOISE AND VIBRATION: A34 NORTHBOUND DIVERSION NIGHT-TIME NOISE IMPACTS APFP REGULATION 5(2)(a) DOCUMENT REFERENCE 6.2

SUITABILITY  
**APPLICATION SUBMISSION**

SHEET SIZE: A3    SCALE: 1:30,000    STATUS: REV 0

DRAWING NUMBER  
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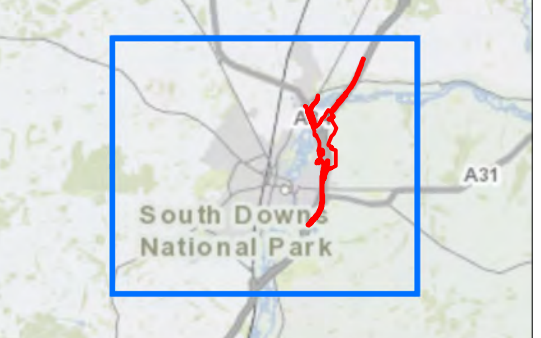


**NOTES**  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

- Legend**
- Application Boundary
  - A34 Southbound Diversion
  - 25m Buffer From A34
  - Dwellings
  - Dwellings (210) Within 25m of Diversion Route

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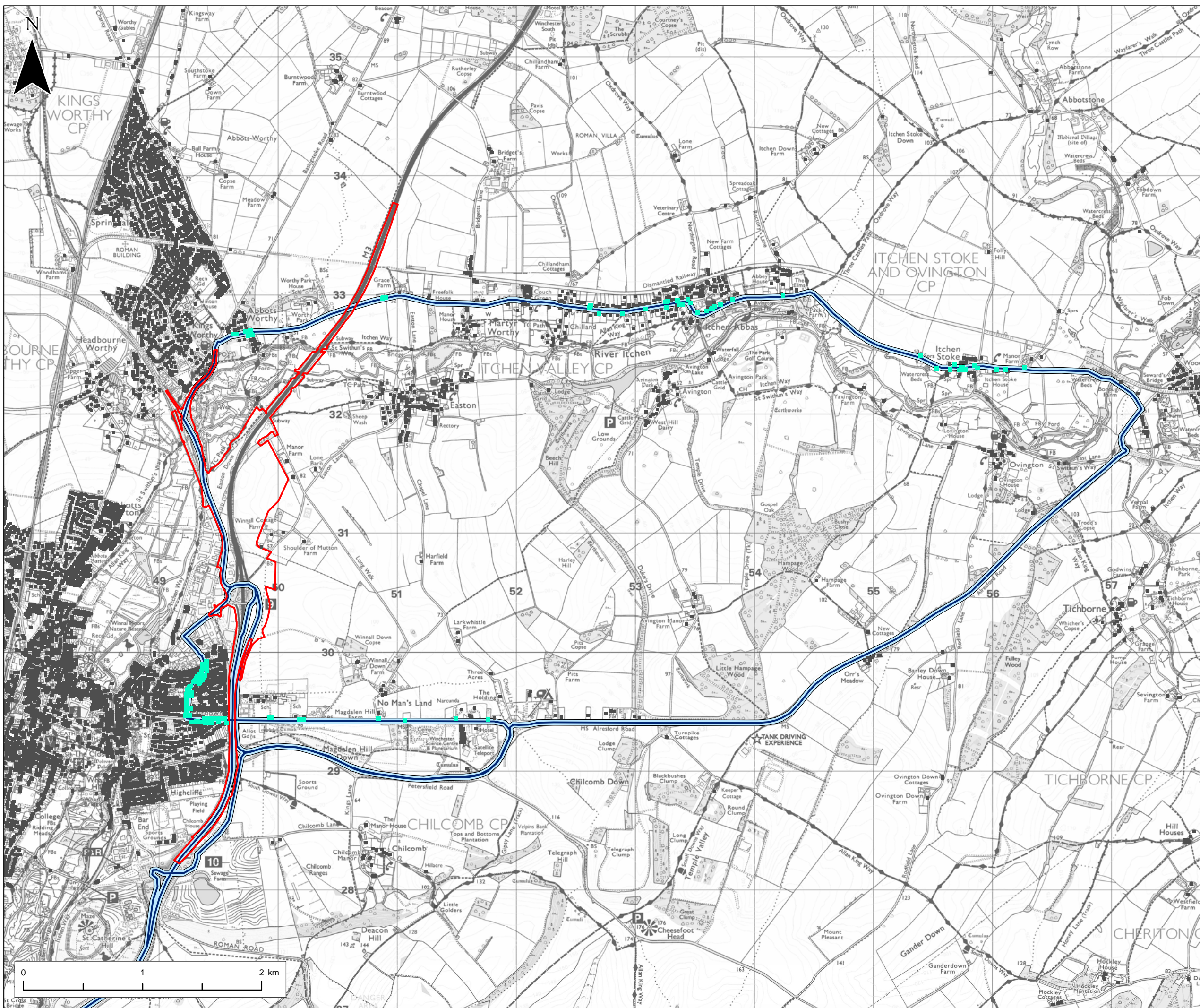
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FIGURE 11.13 - NOISE AND VIBRATION: A34 SOUTHBOUND DIVERSION NIGHT-TIME NOISE IMPACTS APFP REGULATION 5(2)(a) DOCUMENT REFERENCE 6.2

**SUITABILITY**  
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**DRAWING NUMBER**  
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NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

- Legend**
- Application Boundary
  - A272/Spitfire Link Diversion
  - 25m Buffer A272/Spitfire Link Diversion
  - Dwellings
  - Dwellings (207) Within 25m of Diversion Route

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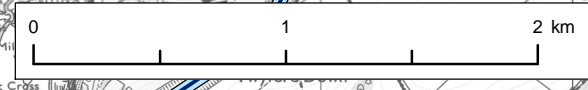
PROJECT STAGE  
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DRAWING TITLE  
FIGURE 11.14 - NOISE AND VIBRATION: A27 SPITFIRE LINK DIVERSION NIGHT-TIME NOISE IMPACTS  
APFP REGULATION 5(2)(a)  
DOCUMENT REFERENCE 6.2

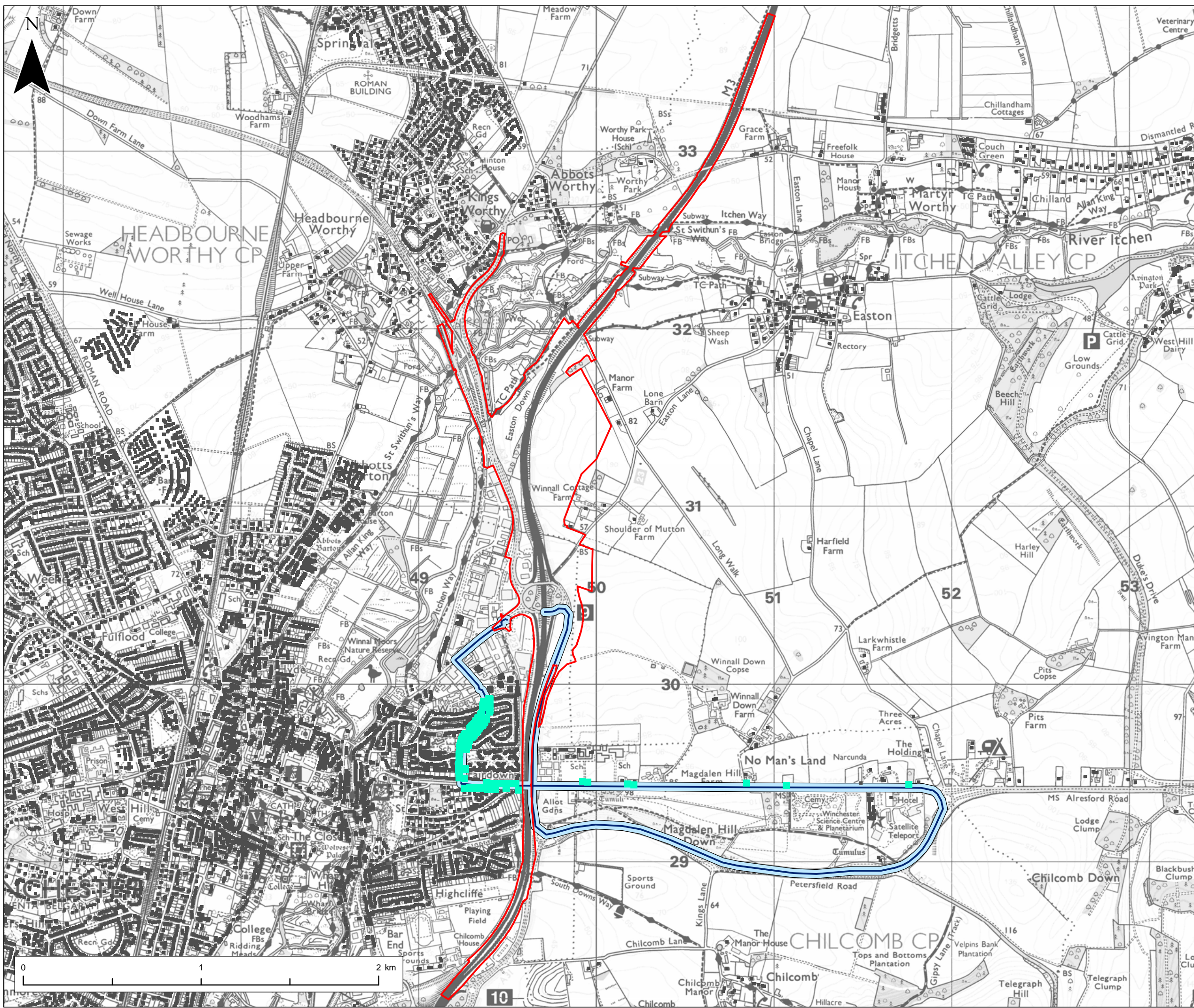
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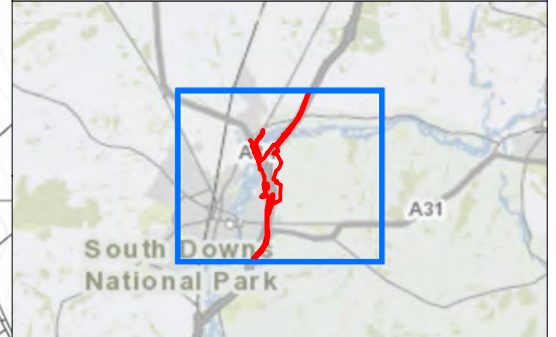
NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

**Legend**

- Application Boundary
- Easton Lane Northbound Diversion
- 25m Buffer From Easton Lane Northbound Diversion
- Dwellings
- Dwellings (163) Within 25m of Diversion Route

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FIGURE 11.15 - NOISE AND VIBRATION: EASTON LANE NORTHBOUND DIVERSION NIGHT-TIME NOISE IMPACTS APFP REGULATION 5(2)(a) DOCUMENT REFERENCE 6.2

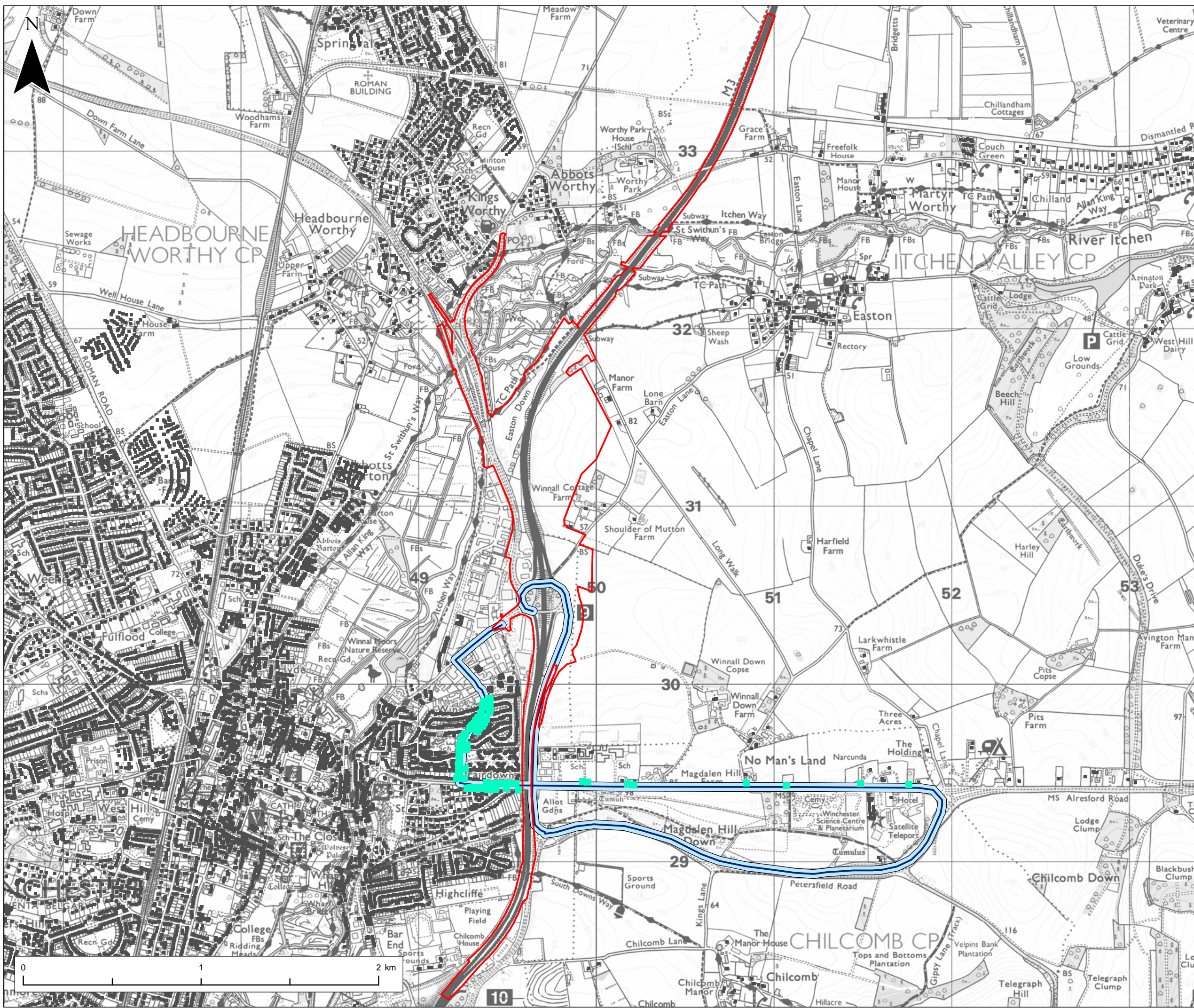
SUITABILITY  
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SHEET SIZE: A3    SCALE: 1:20,000    STATUS: REV 0

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HE551511-VFK-ENV-X\_XXXXX\_XX\_DR\_LA\_0114







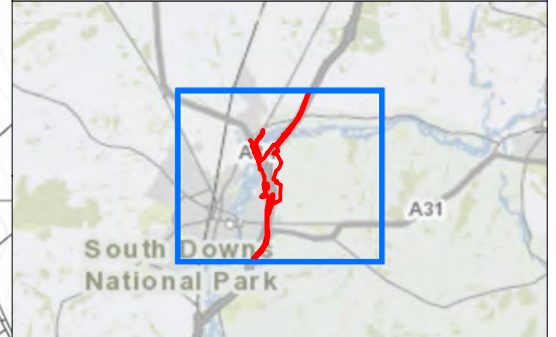
NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

**Legend**

- Application Boundary
- Easton Lane Southbound Diversion
- 25m Buffer From Easton Lane Southbound Diversion
- Dwellings (154) Within 25m of Diversion Route

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REFERENCE MAP



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DESIGNER

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PROJECT TITLE  
**M3 JUNCTION 9 IMPROVEMENT SCHEME**

PROJECT STAGE  
**PCF STAGE 3**

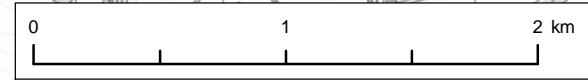
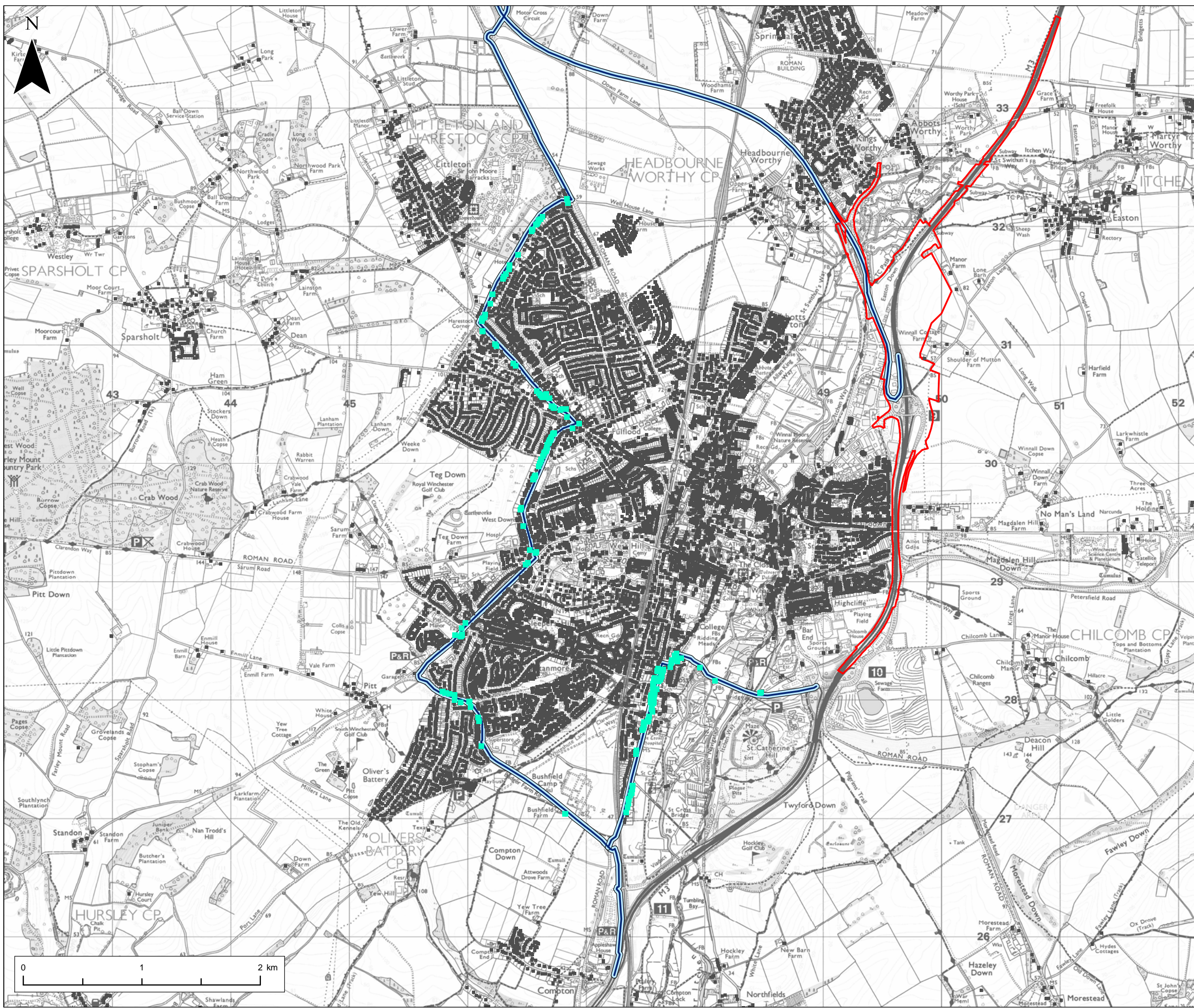
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FIGURE 11.16 - NOISE AND VIBRATION: EASTON LANE SOUTHBOUND DIVERSION NIGHT-TIME NOISE IMPACTS APFP REGULATION 5(2)(a) DOCUMENT REFERENCE 6.2

SUITABILITY  
**APPLICATION SUBMISSION**

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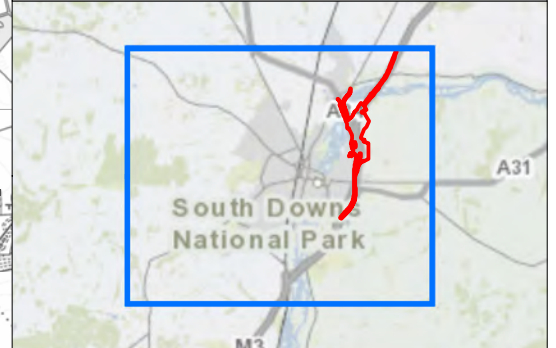


NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

- Legend**
- Application Boundary
  - M3 Southbound Junction 9-10 Diversion
  - 25m Buffer From M3 Northbound Junction 11-9 Diversion
  - Dwellings
  - Dwellings (207) Within 25m of Diversion Route

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PROJECT STAGE  
**PCF STAGE 3**

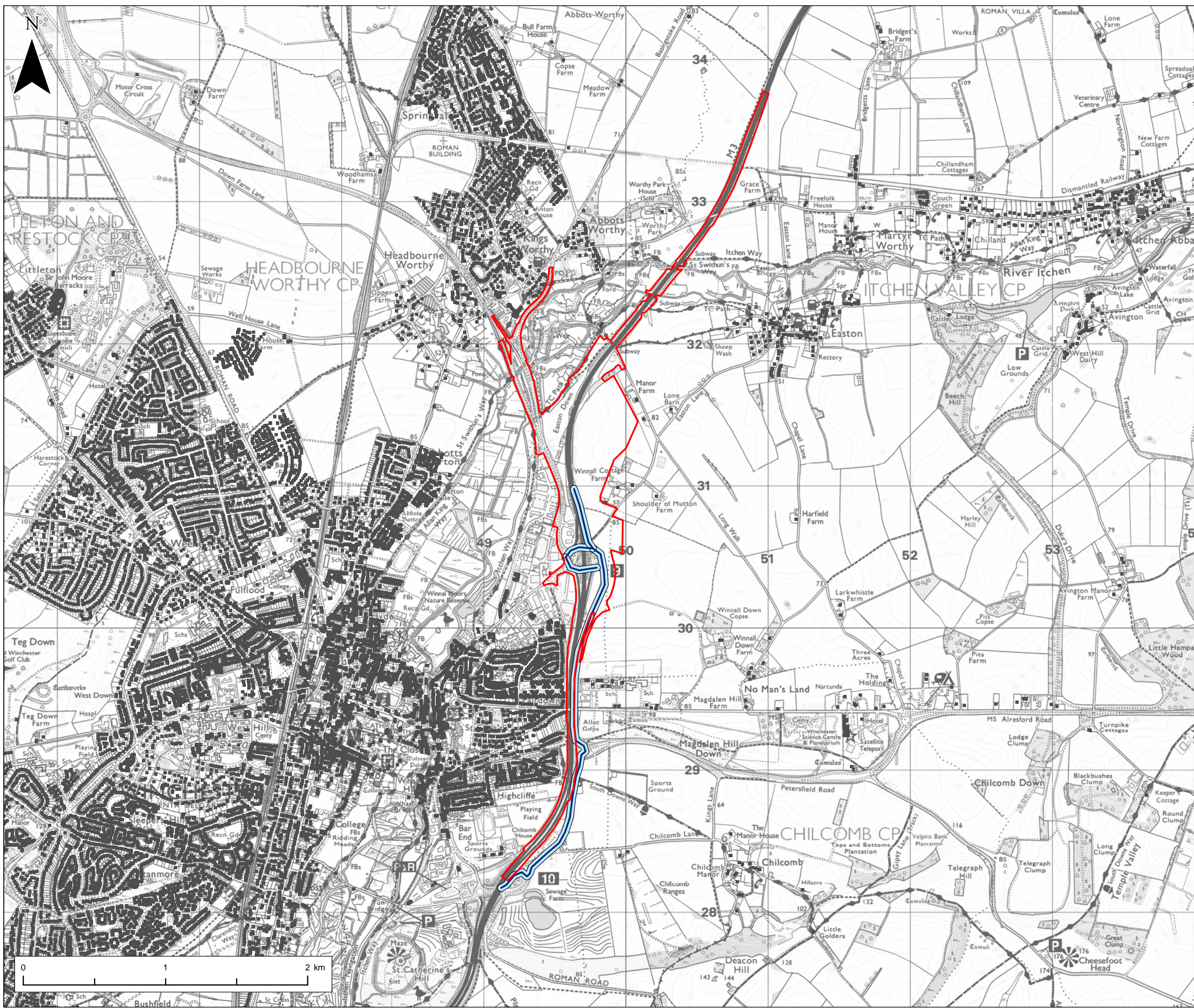
DRAWING TITLE  
FIGURE 11.17 - NOISE AND VIBRATION: M3 NORTHBOUND DIVERSION NIGHT-TIME NOISE IMPACTS APFP REGULATION 5(2)(a) DOCUMENT REFERENCE 6.2

SUITABILITY  
**APPLICATION SUBMISSION**

SHEET SIZE: A3    SCALE: 1:30,000    STATUS: REV 0

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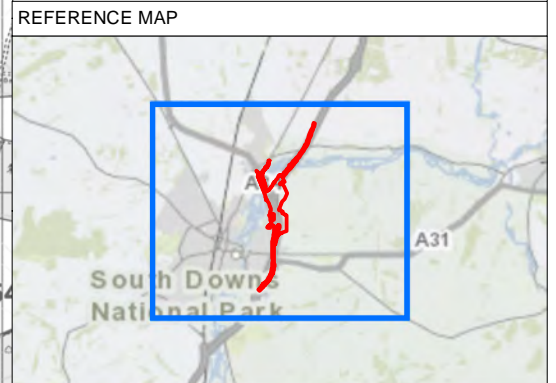


NOTES  
1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

**Legend**

- Application Boundary
- M3 Southbound Junction 9-10 Diversion
- 25m Buffer from M3 Southbound Junction 9-10 Diversion
- Dwellings

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PROJECT STAGE  
**PCF STAGE 3**

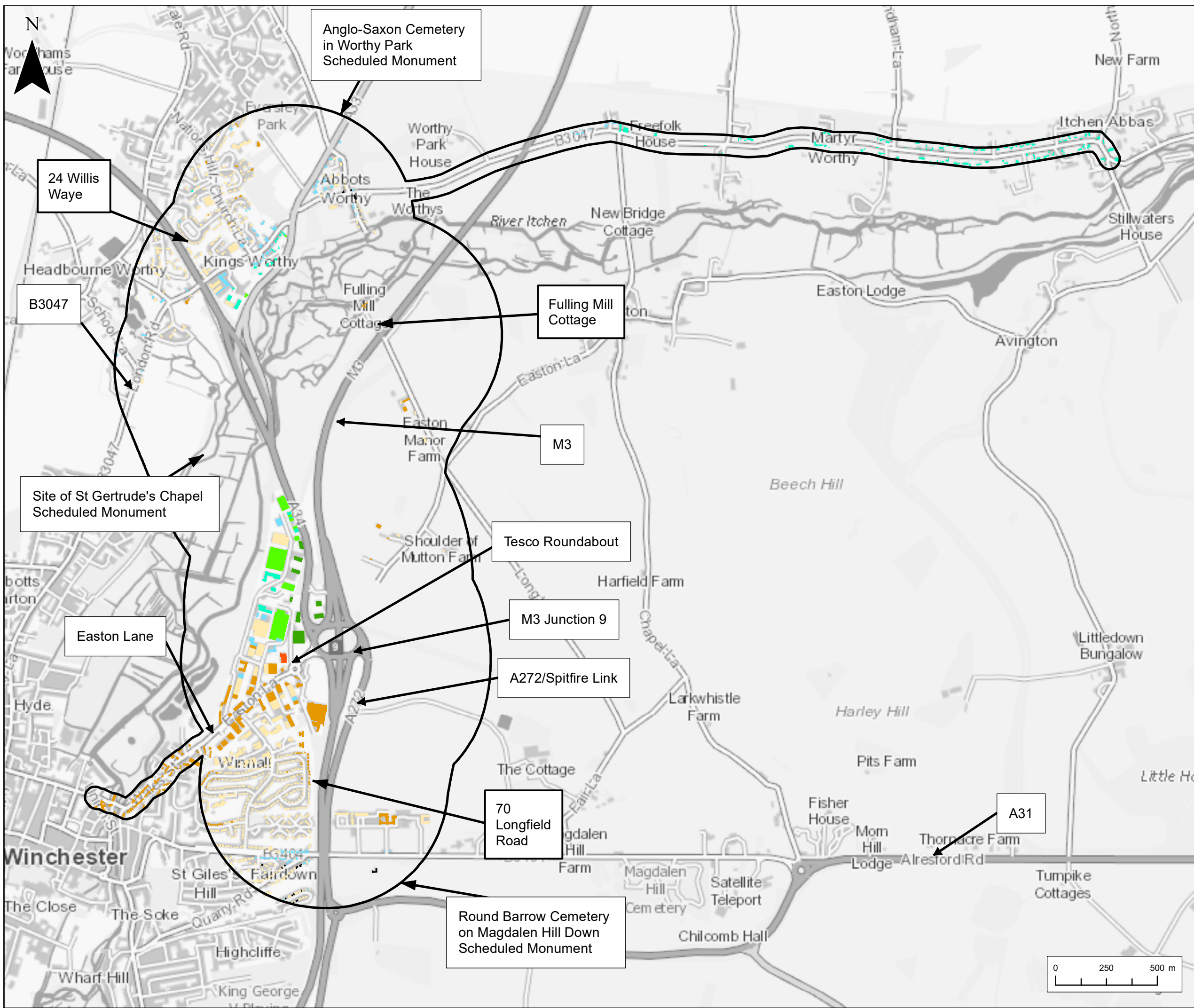
DRAWING TITLE  
FIGURE 11.18 - NOISE AND VIBRATION: M3 SOUTHBOUND DIVERSION NIGHT-TIME NOISE IMPACTS APFP REGULATION 5(2)(a) DOCUMENT REFERENCE 6.2

SUITABILITY  
**APPLICATION SUBMISSION**

SHEET SIZE: A3    SCALE: 1:25,000    STATUS: REV 0

DRAWING NUMBER  
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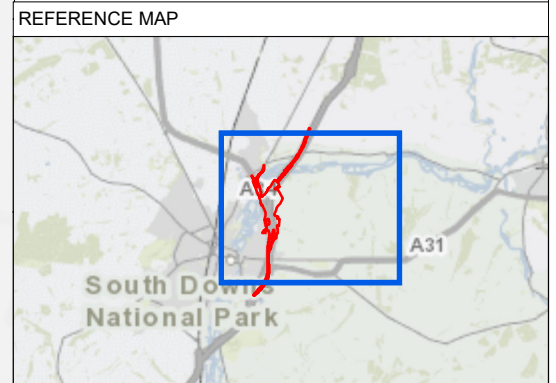
**NOTES**  
 1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

Study Area for Operational Noise, 600m from roads being modified, and roads experiencing 1dBA change in Opening Year

**Magnitude of Impact Noise Change, dB (LA10 18hr)**

- No Change
- Negligible Increase
- Minor Increase
- Moderate Increase
- Negligible Decrease
- Minor Decrease
- Moderate Decrease
- Major Decrease

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PROJECT STAGE

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FIGURE 11.19 - NOISE AND VIBRATION: OPERATIONAL NOISE CHANGE, 2027 DO MINIMUM SCENARIO VS DO SOMETHING SCENARIO (DAYTIME)  
 APPF REGULATION 5(2)(a)  
 DOCUMENT REFERENCE 6.2

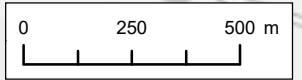
SUITABILITY

**APPLICATION SUBMISSION**

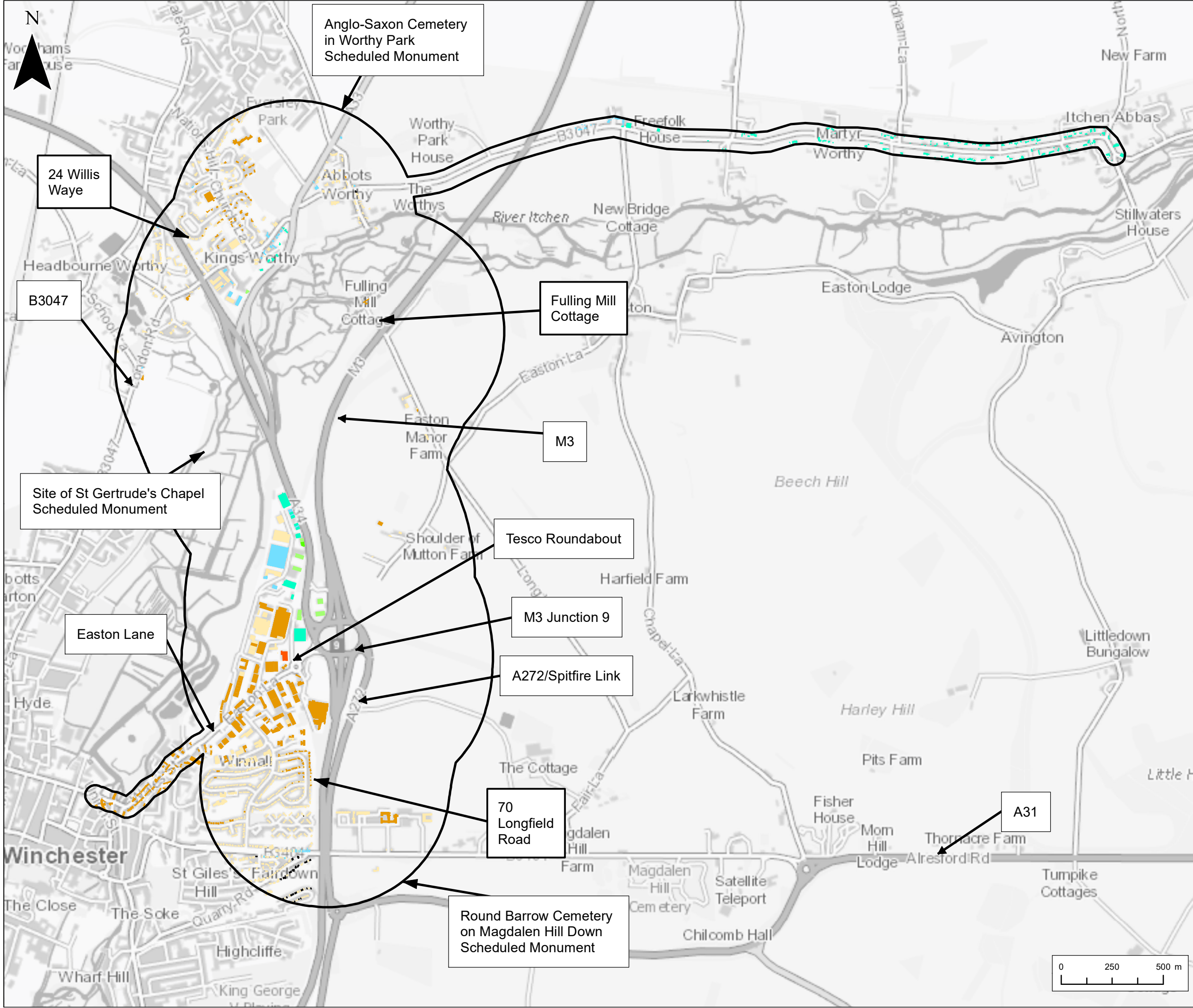
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DRAWING NUMBER

HE551511-VFK-ENV-X\_XXXXX\_XX\_DR\_LA\_0118







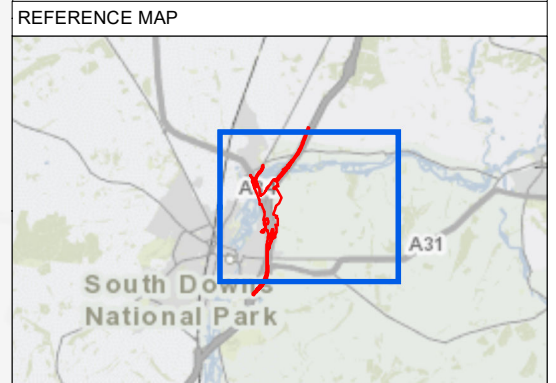
**NOTES**  
 1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

Study Area for Operational Noise, 600m from roads being modified, and roads experiencing 1dBA change in Opening Year

**Magnitude of Impact Noise Change, dB (Lnight)**

- Black: No Change
- Yellow: Negligible Increase
- Orange: Minor Increase
- Red: Moderate Increase
- Light Blue: Negligible Decrease
- Light Green: Minor Decrease
- Medium Green: Moderate Decrease
- Dark Green: Major Decrease

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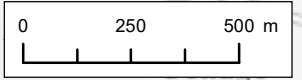
PROJECT STAGE  
**PCF STAGE 3**

DRAWING TITLE  
 FIGURE 11.20 - NOISE AND VIBRATION: OPERATIONAL NOISE CHANGE, 2027 DO MINIMUM SCENARIO VS DO SOMETHING SCENARIO (NIGHT TIME)  
 APPFP REGULATION 5(2)(a)  
 DOCUMENT REFERENCE 6.2

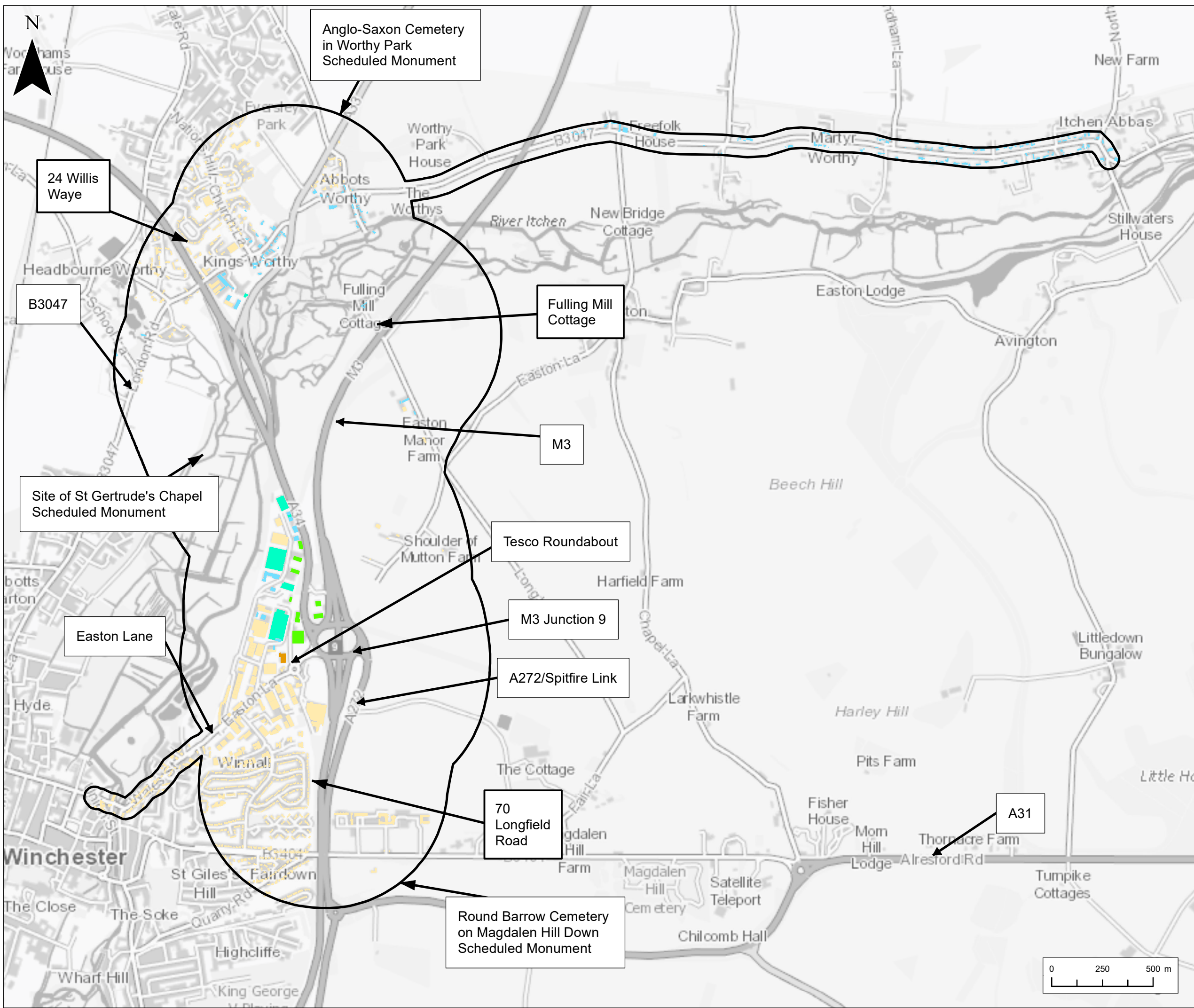
SUITABILITY  
**APPLICATION SUBMISSION**

SHEET SIZE: A3 | SCALE: 1:17,500 | STATUS: REV 1

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**NOTES**  
 1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

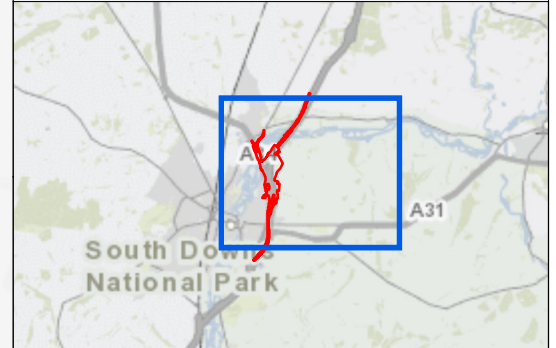
Study Area for Operational Noise, 600m from roads being modified, and roads experiencing 1dBA change in Opening Year

**Magnitude of Impact Noise Change, dB (LA10, 18hr)**

- Negligible Increase
- Minor Increase
- Negligible Decrease
- Minor Decrease
- Major Decrease

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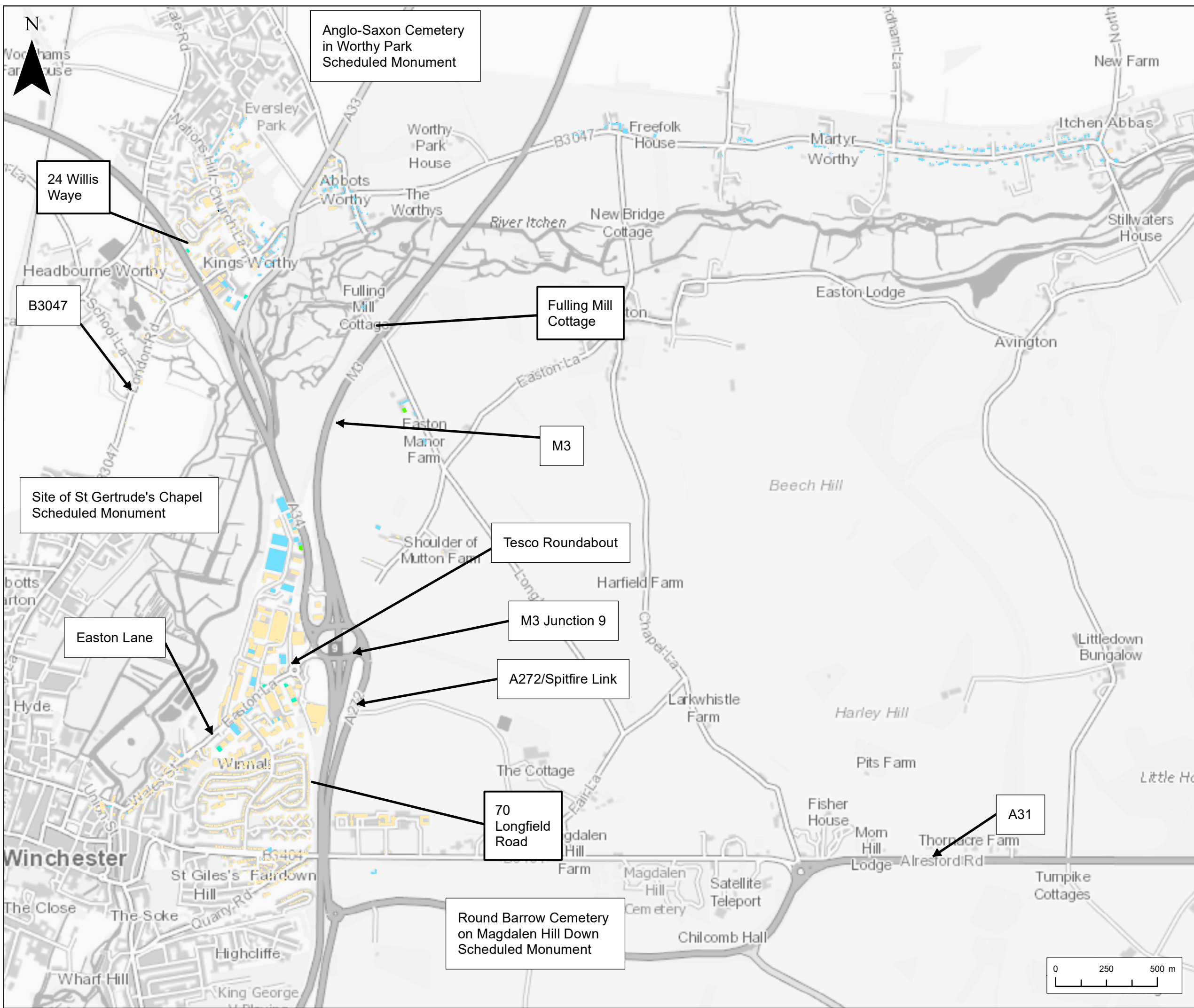
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 FIGURE 11.21 - NOISE AND VIBRATION: OPERATIONAL NOISE CHANGE, 2027 DO MINIMUM SCENARIO VS 2042 DO SOMETHING SCENARIO (DAYTIME)  
 APFP REGULATION 5(2)(a)  
 DOCUMENT REFERENCE 6.2

**SUITABILITY**  
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SHEET SIZE: A3    SCALE: 1:17,500    STATUS: REV 1

**DRAWING NUMBER**  
 HE551511-VFK-ENV-X\_XXXXX\_XX\_DR\_LA\_0120





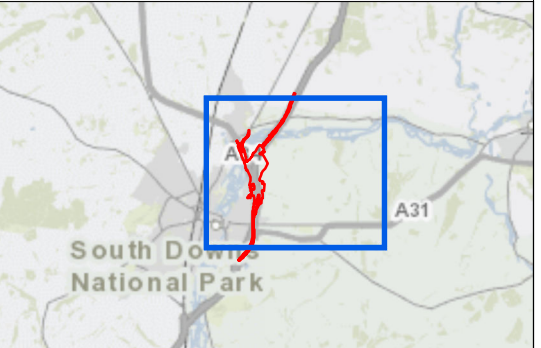
**NOTES**  
 1. This drawing has been produced using GIS software, therefore all dimensions are shown in metres unless shown otherwise.

**Magnitude of Impact Noise Change, dB (night)**

- No Change
- Negligible Increase
- Minor Increase
- Negligible Decrease
- Minor Decrease
- Moderate Decrease

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**PROJECT TITLE**  
 M3 JUNCTION 9 IMPROVEMENT SCHEME

**PROJECT STAGE**  
 PCF STAGE 3

**DRAWING TITLE**  
 FIGURE 11.22 - NOISE AND VIBRATION: OPERATIONAL NOISE CHANGE, 2027 DO MINIMUM SCENARIO VS 2042 DO SOMETHING SCENARIO (NIGHT TIME)  
 APFP REGULATION 5(2)(a)  
 DOCUMENT REFERENCE 6.2

**SUITABILITY**  
 APPLICATION SUBMISSION

SHEET SIZE: A3    SCALE: 1:17,500    STATUS: REV 1

**DRAWING NUMBER**  
 HE551511-VFK-ENV-X\_XXXXX\_XX\_DR\_LA\_0121