

M25 junction 28 improvement scheme

TR010029

6.2 Environmental Statement

Chapter 6: Noise and vibration figures

Regulation 5(2)(a)
Planning Act 2008

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



Infrastructure Planning

Planning Act 2008

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

M25 junction 28 scheme Development Consent Order 202[x]

6.2 ENVIRONMENTAL STATEMENT CHAPTER 6: NOISE AND VIBRATION FIGURES

Regulation Number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference:	TR010029
Application Document Reference:	TR010029/APP/6.2
Author:	M25 junction 28 improvement scheme project team, Highways England

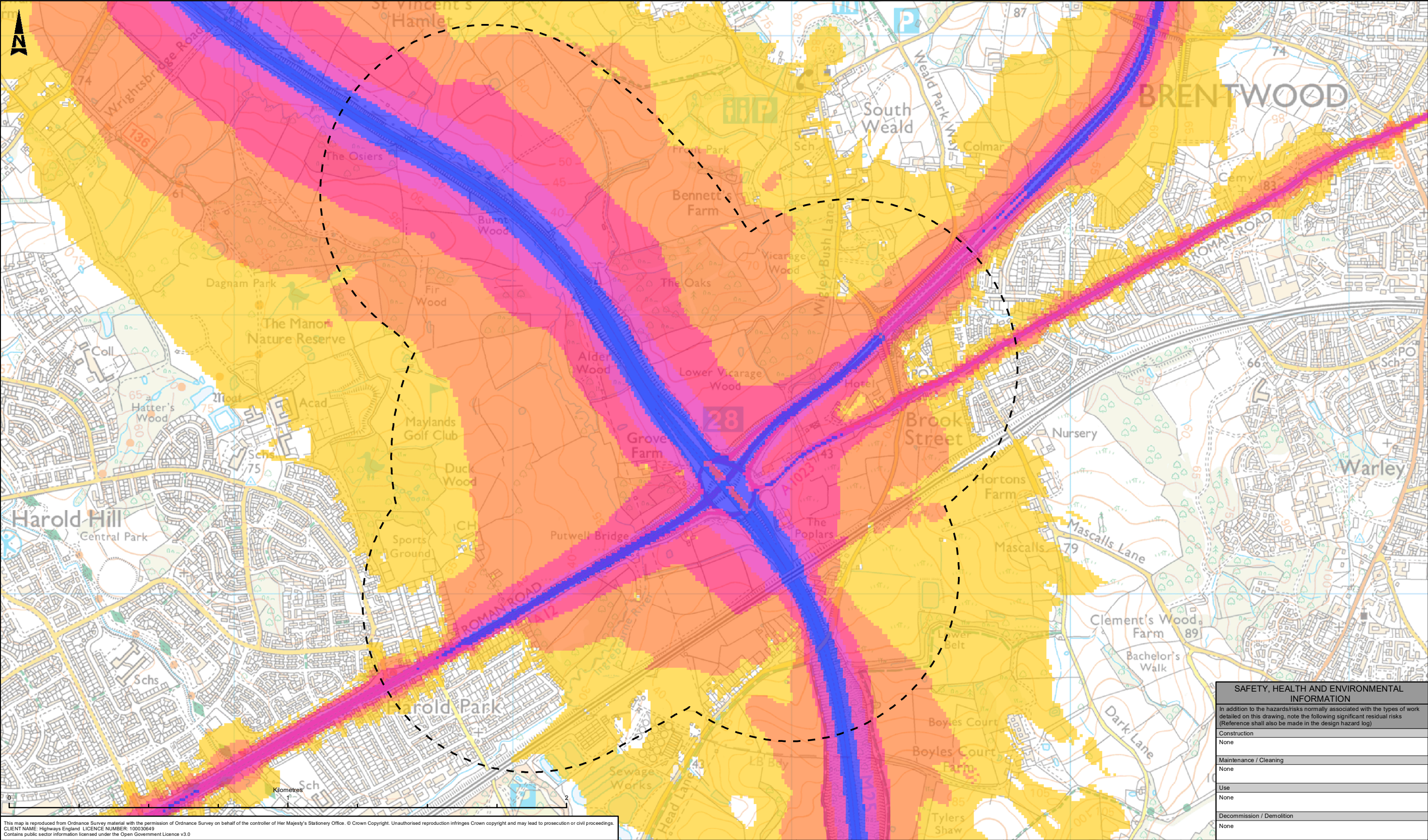
Version	Date	Status of Version
4	June 2021	Deadline 9, final version
3	April 2021	Deadline 5, incorporated changes 1-4, updates to Grove Farm
2	February 2021	Deadline 3a
1	May 2020	Application issue

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1. Schedule of figures included in this application document

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LEGEND

600m Study Area

Road Noise $L_{Aeq, 16hr}$ (07:00-23:00)

- 55.0 - 59.9 dB
- 60.0 - 64.9 dB
- 65.0 - 69.9 dB
- 70.0 - 74.9 dB
- 75 dB or greater

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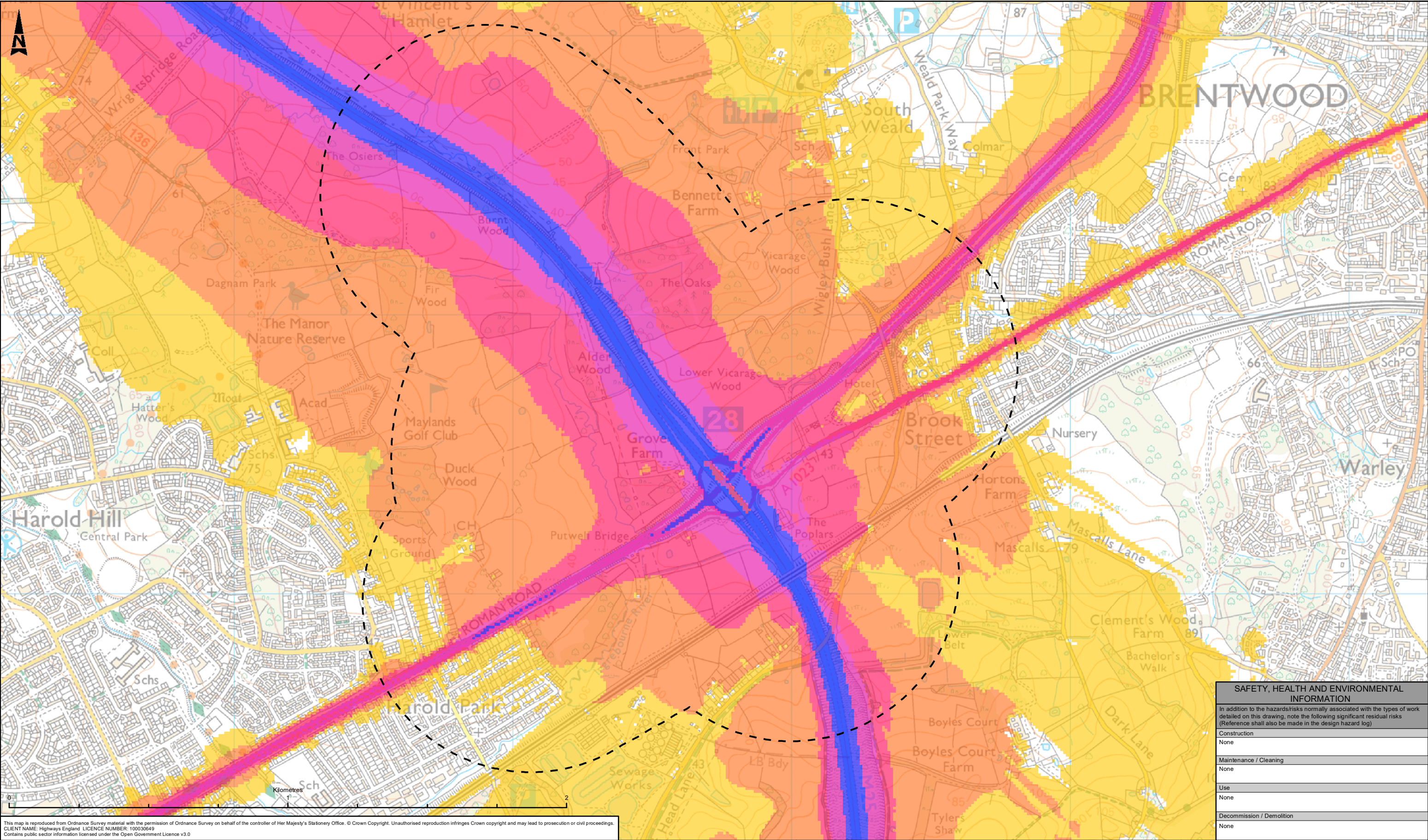
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Description		Drawing Suitability	Status	Project Title
Status		PUBLISHED	A1	M25 Junction 28
Description		Drawing Title		
Status		FIGURE 6.2 DEFRA NOISE MAPS (DAY)		
Description		Drawing Number		
Status		Project HE551519 - ATK - ENV XX - GS - GI - 000002		
Description		Originator Volume		
Status		Type Role Number		
Description		Original Size: A3		
Status		Scale: 1:12,500		
Description		Project Ref. No: ---		
Status		Sheet: 1 of 1		
Description		Rev: C03		

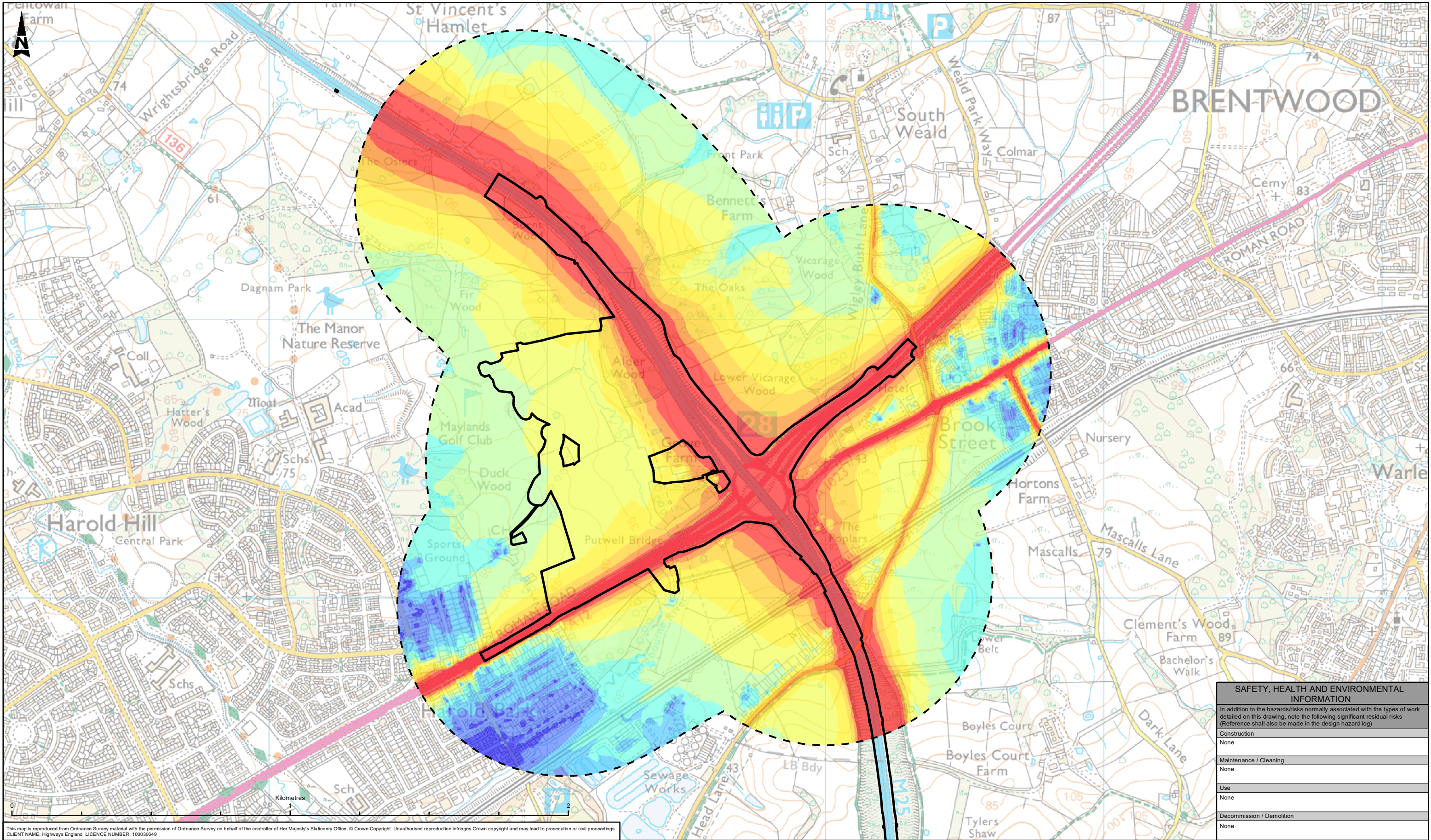


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LEGEND
 600m Study Area
Road Noise Level L_{night} 8hr (23:00-07:00)
 50.0 - 54.9 dB
 55.0 - 59.9 dB
 60.0 - 64.9 dB
 65.0 - 69.9 dB
 70.0 dB or greater

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Published	A1	C03	SD	AL	EM	PG	28/06/21
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Published	A1	C02	RS	PH	EM	PG	28/06/21

Description	Drawing Suitability		Status		Project Title
	PUBLISHED		A1		
<div>ATKINS Member of the SNC-Lavalin Group Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055 www.atkinsglobal.com</div>					Drawing Title FIGURE 6.3 DEFRA NOISE MAPS (NIGHT)
Copyright © Atkins Limited (2021)					
Client					
<div></div>					Drawing Number Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000003 Volume: 1 of 1 Original Size: A3 Scale: 1:12,500 Project Ref No: --- Sheet: 1 of 1 Rev: C03



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DCO Boundary

600m Study Area

Noise Level dB $L_{A10,18hr}$

>70.0 dB

67.5 - 70.0 dB

65.0 - 67.5 dB

62.5 - 65.0 dB

60.0 - 62.5 dB

57.5 - 60.0 dB

55.0 - 57.5 dB

52.5 - 55.0 dB

50.0 - 52.5 dB

< 50.0 dB

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Published	A1	C03	SD	AL	EM	PG	28/06/21
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Published	A1	C02	KV	PH	EM	PG	18/03/20

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HE551519 - ATK - ENV
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Project

Originator

Volume

Location

Type

Role

Number

Original Size: A3

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Sheet: 1 of 1

Rev: C03

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Construction

None

Maintenance / Cleaning

None

Use

None

Decommission / Demolition

None

Project Title

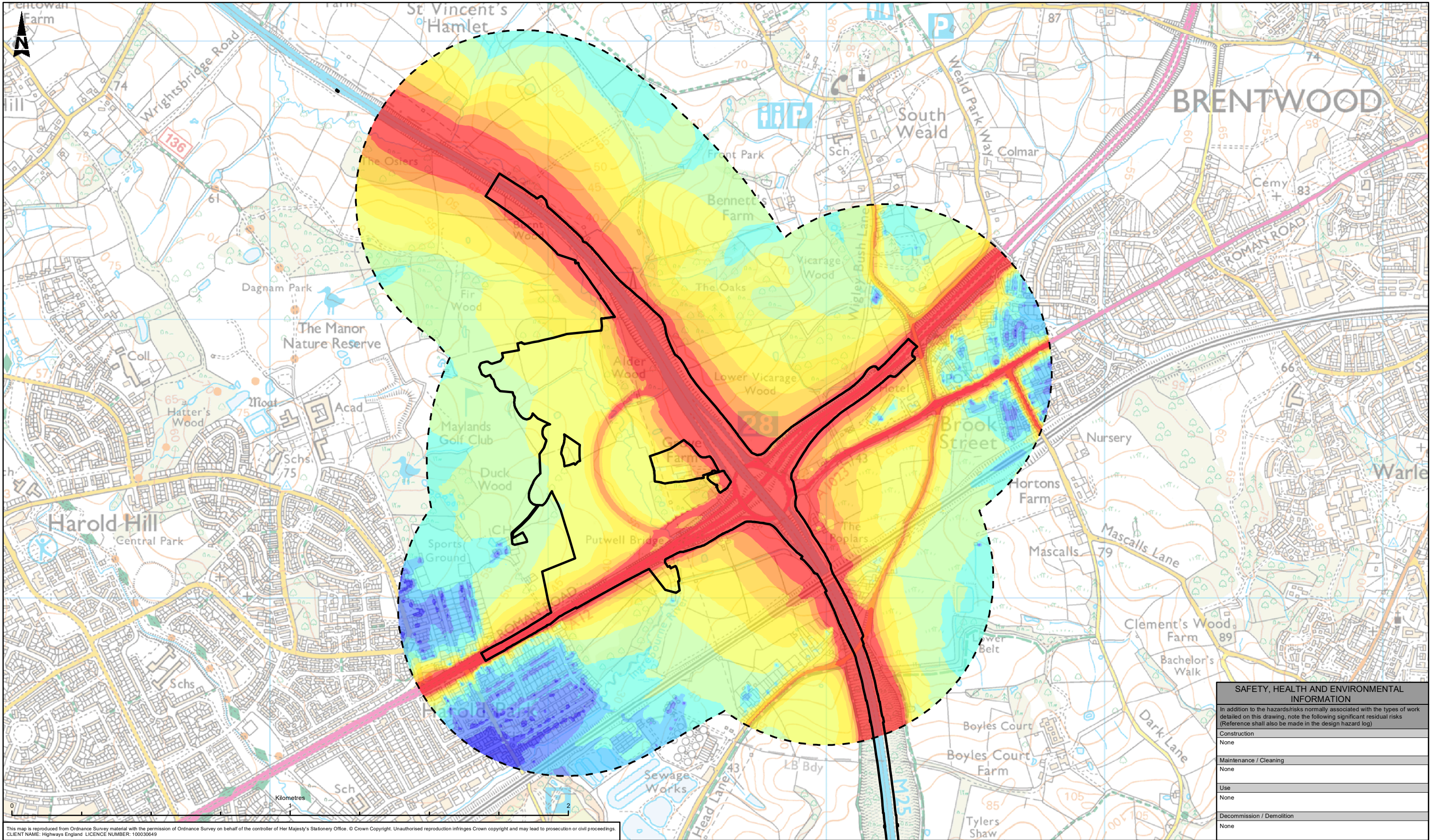
M25 Junction 28

Drawing Title

FIGURE 6.5
PREDICTED DAYTIME ROAD TRAFFIC
NOISE LEVELS, DM22

Drawing Number

HE551519 - ATK - ENV
XX - GS - GI - 000005



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LEGEND

DCO Boundary

600m Study Area

Noise Level dB L_{A10,18hr}

>70.0 dB

67.5 - 70.0 dB

65.0 - 67.5 dB

62.5 - 65.0 dB

60.0 - 62.5 dB

57.5 - 60.0 dB

55.0 - 57.5 dB

52.5 - 55.0 dB

50.0 - 52.5 dB

< 50.0 dB

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	004	SD	AL	EM	PG	28/06/21
PUBLISHED						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	003	SD	AL	EM	PG	08/04/21
PUBLISHED						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	002	KV	PH	EM	PG	08/03/20

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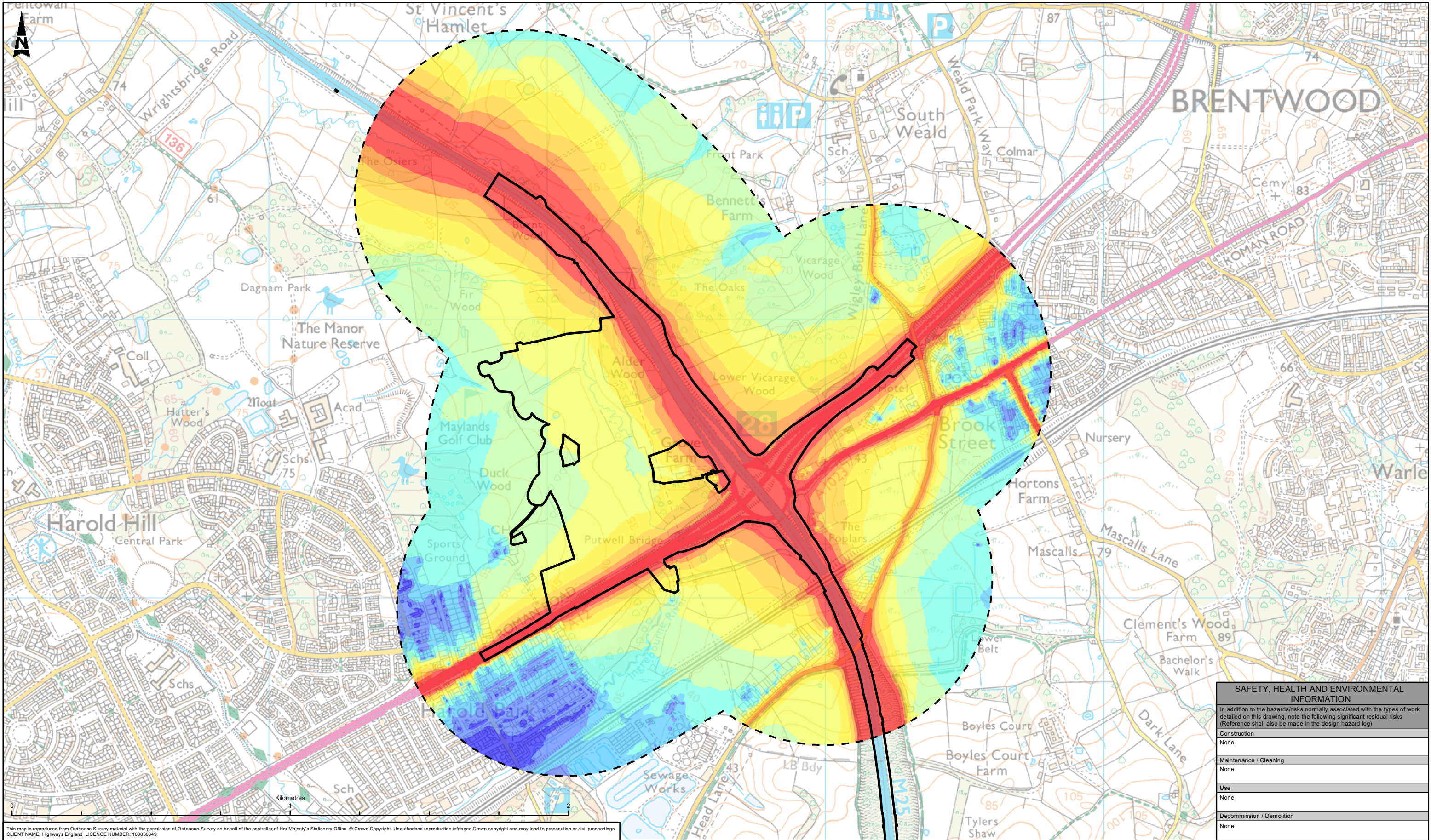
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Status

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None									
Maintenance / Cleaning									
None									
Use									
None									
Decommission / Demolition									
None									
Project Title				M25 Junction 28					
Drawing Title				FIGURE 6.6 PREDICTED DAYTIME ROAD TRAFFIC NOISE LEVELS, DS22					
Drawing Number				HE551519 - ATK - ENV XX - GS - GI - 000006					
Original Size: A3	Scale: 1:12,500	Project Ref. No: ---	Sheet: 1 of 1	Rev: C04					



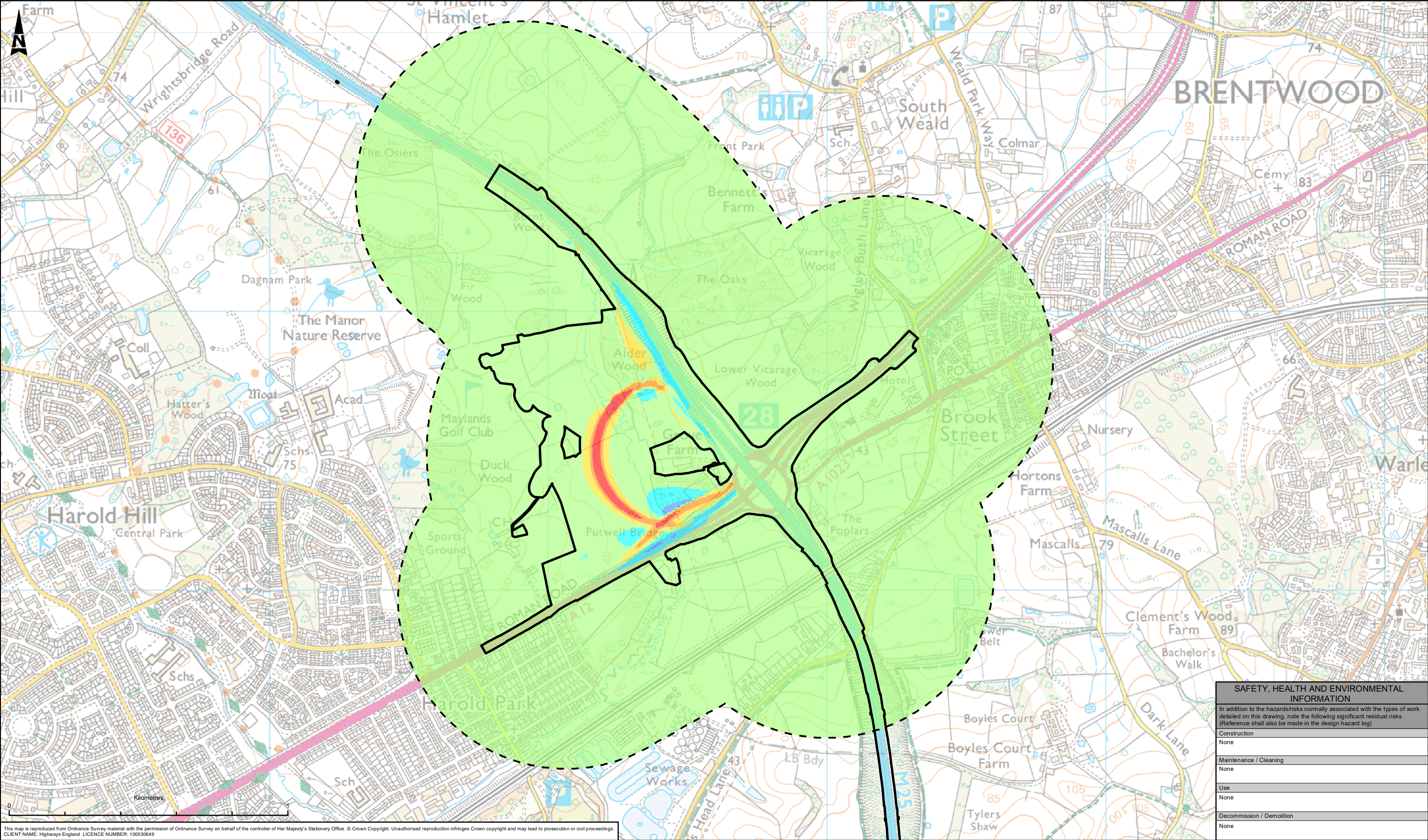
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LEGEND

	DCO Boundary	Noise Level dB L_{A10,18hr}	
	600m Study Area		>70.0 dB
			67.5 - 70.0 dB
			65.0 - 67.5 dB
			62.5 - 65.0 dB
			60.0 - 62.5 dB
			57.5 - 60.0 dB
			55.0 - 57.5 dB
			52.5 - 55.0 dB
			50.0 - 52.5 dB
			< 50.0 dB

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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		DESCRIPTION		DRAWING SUITABILITY		STATUS		PROJECT TITLE	
		Status		PUBLISHED		A1		M25 Junction 28	
		Revision		ATKINS		Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL		FIGURE 6.7 PREDICTED DAYTIME ROAD TRAFFIC NOISE LEVELS, DM37	
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		Authorised		Description				Project	
		Issue Date		Status				Originator	
				Description				HE551519 - ATK - ENV	
				Status				XX - GS - GI - 000007	
				Description				Location	
				Status				Type	
				Revision				Project Ref. No.	
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				Authorised				1 of 1	
				Issue Date				Rev	
				18/03/20				C03	



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LEGEND

DCO Boundary

600m Study Area

Noise Level dB L_{A10,18hr}

5.0 to 10.0 dB

3.0 to 5.0 dB

1.0 to 3.0 dB

-1.0 to 1.0 dB

-3.0 to -1.0 dB

-5.0 to -3.0 dB

-10.0 to -5.0 dB

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description PUBLISHED						
Status A1	Revision C05	Drawn SD	Checked AL	Reviewed EM	Authorised PG	Issue Date 28/06/21
Description PUBLISHED						
Status A1	Revision C04	Drawn SD	Checked AL	Reviewed EM	Authorised PG	Issue Date 08/04/21
Description PUBLISHED						
Status A1	Revision C03	Drawn SD	Checked LM	Reviewed EM	Authorised PG	Issue Date 11/02/21
Description PUBLISHED						
Status A1	Revision C04	Drawn KV	Checked PH	Reviewed EM	Authorised PG	Issue Date 18/03/20

Drawing Suitability

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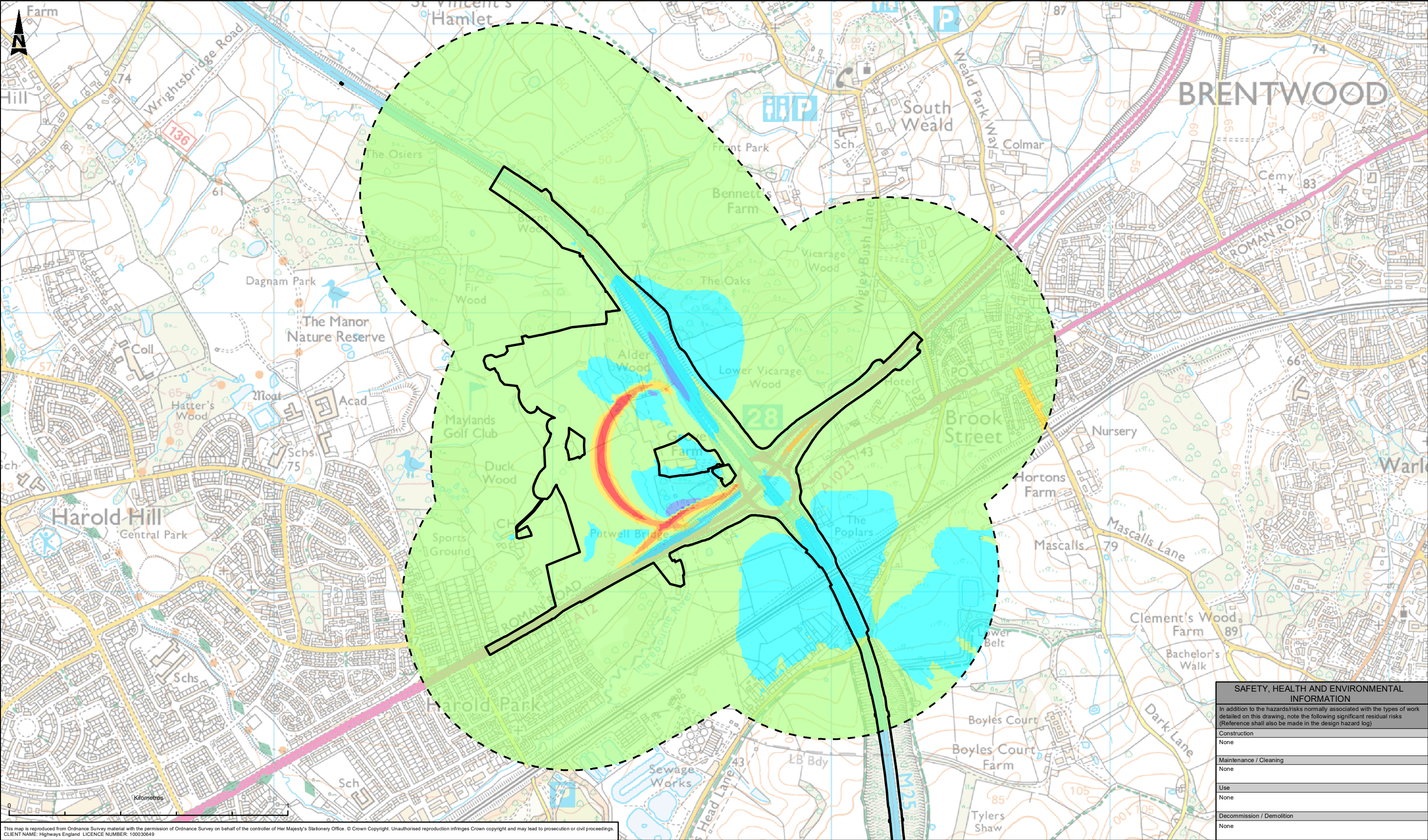
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None									
Maintenance / Cleaning									
None									
Use									
None									
Decommission / Demolition									
None									
Project Title		M25 Junction 28							
Drawing Title		FIGURE 6.9 SHORT TERM CHANGE (DS22-DM22)							
Drawing Number		Project Originator Volume HE551519 - ATK - ENV XX - GS - GI - 000009							
Original Size: A3	Scale: 1:12,500	Project Ref. No: ---	Sheet: 1 of 1	Rev: C05					



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LEGEND

DCO Boundary

600m Study Area

Noise Level dB L_{A10,18hr}

5.0 to 10.0 dB

3.0 to 5.0 dB

1.0 to 3.0 dB

-1.0 to 1.0 dB

-3.0 to -1.0 dB

-5.0 to -3.0 dB

-10.0 to -5.0 dB

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description PUBLISHED						
Status A1	Revision C05	Drawn SD	Checked AL	Reviewed EM	Authorised PG	Issue Date 28/06/21
Description PUBLISHED						
Status A1	Revision C04	Drawn SD	Checked AL	Reviewed EM	Authorised PG	Issue Date 08/04/21
Description PUBLISHED						
Status A1	Revision C03	Drawn SD	Checked LM	Reviewed EM	Authorised PG	Issue Date 11/02/21
Description PUBLISHED						
Status A1	Revision C02	Drawn KV	Checked PH	Reviewed EM	Authorised PG	Issue Date 01/05/20

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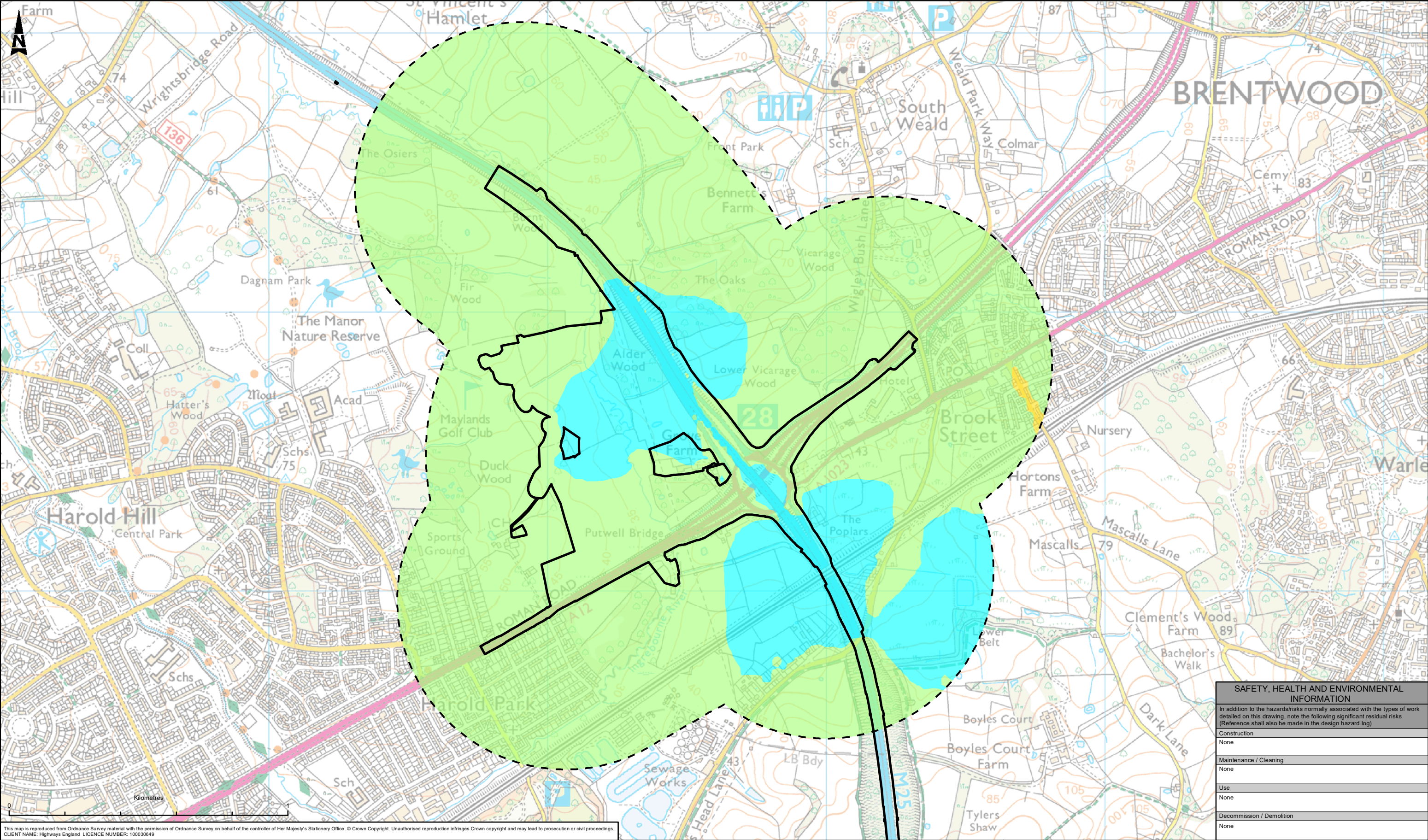
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Construction									
None									
Maintenance / Cleaning									
None									
Use									
None									
Decommission / Demolition									
None									
Project Title				M25 Junction 28					
Drawing Title				FIGURE 6.10 LONG TERM CHANGE WITH THE SCHEME (DS37-DM22)					
Drawing Number				HE551519 - ATK - ENV XX - GS - GI - 000010					
Original Size: A3		Scale: 1:12,500		Project Ref. No: ---		Sheet: 1 of 1		Rev: C05	



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LEGEND

DCO Boundary

600m Study Area

Noise Level dB L_{A10,18hr}

5.0 to 10.0 dB

3.0 to 5.0 dB

1.0 to 3.0 dB

-1.0 to 1.0 dB

-3.0 to -1.0 dB

-5.0 to -3.0 dB

-10.0 to -5.0 dB

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
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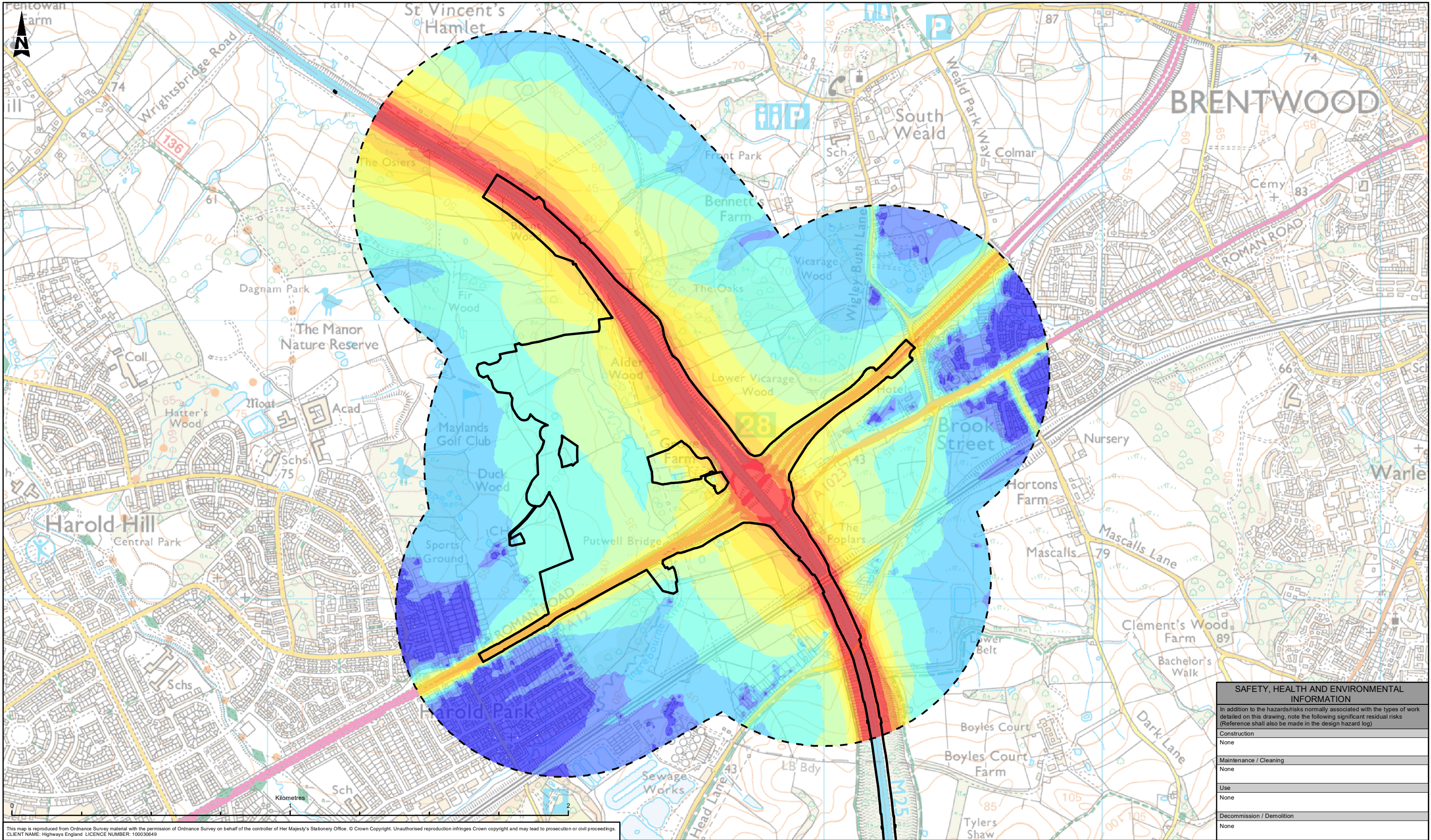
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Project Title		M25 Junction 28	
Drawing Title		FIGURE 6.11 LONG TERM CHANGE WITHOUT THE SCHEME (DM37-DM22)	
Drawing Number		HE551519 - ATK - ENV XX - GS - GI - 000011	
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DCO Boundary

600m Study Area

Noise Level dB L_{night}

>70.0 dB

67.5 - 70.0 dB

65.0 - 67.5 dB

62.5 - 65.0 dB

60.0 - 62.5 dB

57.5 - 60.0 dB

55.0 - 57.5 dB

52.5 - 55.0 dB

50.0 - 52.5 dB

< 50.0 dB

Description

Status

Revision

Drawn

Checked

Reviewed

Authorised

Issue Date

PUBLISHED

A1

C03

SD

AL

EM

PG

28/06/21

Description

Status

Revision

Drawn

Checked

Reviewed

Authorised

Issue Date

PUBLISHED

A1

C02

KV

PH

EM

PG

18/03/20

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Safety, Health and Environmental Information

Construction

None

Maintenance / Cleaning

None

Use

None

Decommission / Demolition

None

Project Title

M25 Junction 28

Drawing Title

FIGURE 6.12
PREDICTED NIGHT-TIME
ROAD TRAFFIC NOISE LEVELS, DM22

Drawing Number

Project

HE551519 - ATK - ENV

Originator

XX - GS - GI - 000012

Volume

Original Size

A3

Scale

1:12,500

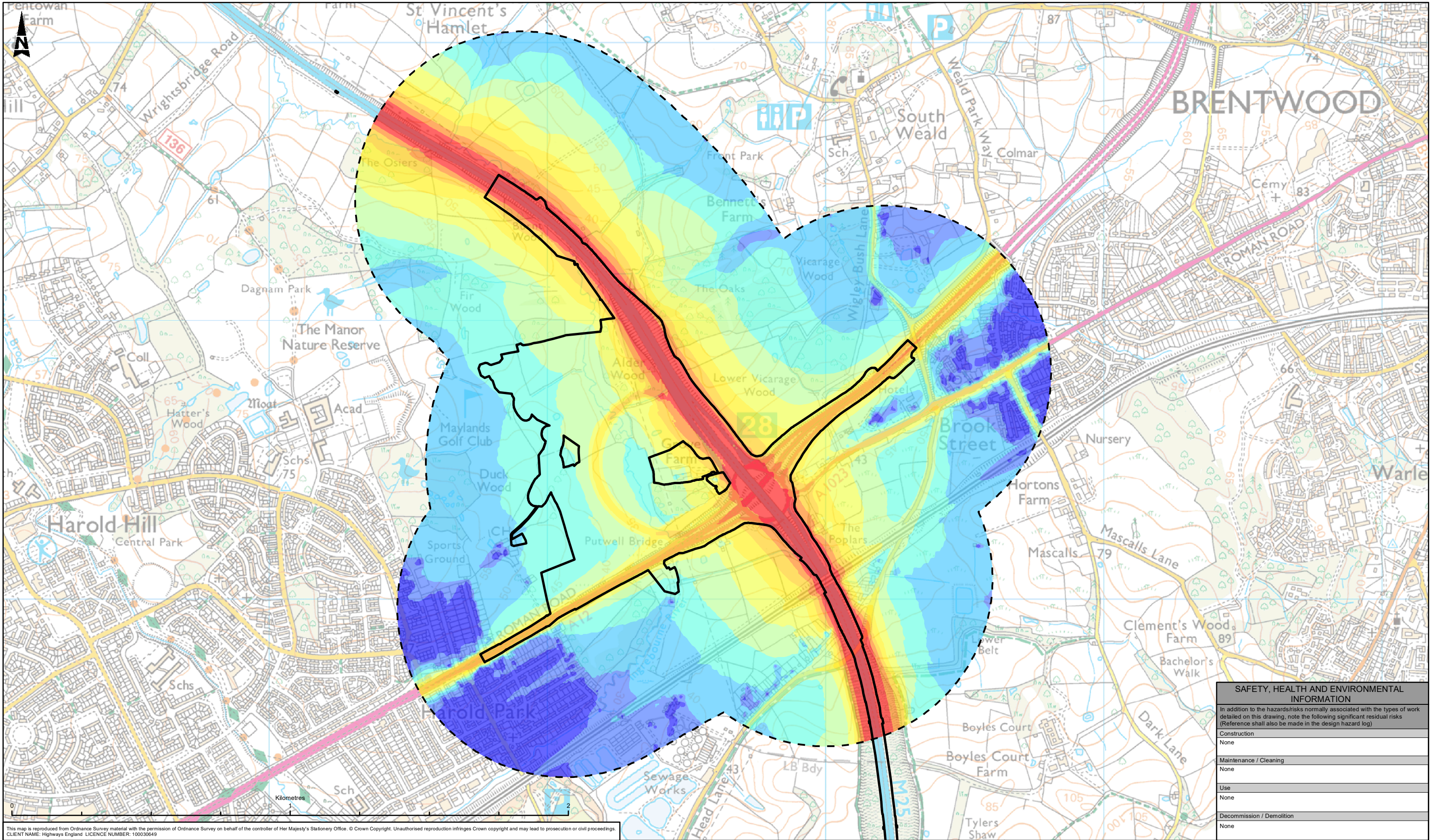
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LEGEND

DCO Boundary

600m Study Area

Noise Level dB L_{A10,18hr}

>70.0 dB

67.5 - 70.0 dB

65.0 - 67.5 dB

62.5 - 65.0 dB

60.0 - 62.5 dB

57.5 - 60.0 dB

55.0 - 57.5 dB

52.5 - 55.0 dB

50.0 - 52.5 dB

< 50.0 dB

Description		Drawing Suitability		Status		Project Title									
Status		Revision		Drawn		Checked		Reviewed		Authorised		Issue Date		M25 Junction 28	
Description		Revision		Drawn		Checked		Reviewed		Authorised		Issue Date		Drawing Title	
Description		Revision		Drawn		Checked		Reviewed		Authorised		Issue Date		FIGURE 6.13 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DS22	
Description		Revision		Drawn		Checked		Reviewed		Authorised		Issue Date		Drawing Number	
Description		Revision		Drawn		Checked		Reviewed		Authorised		Issue Date		Project	
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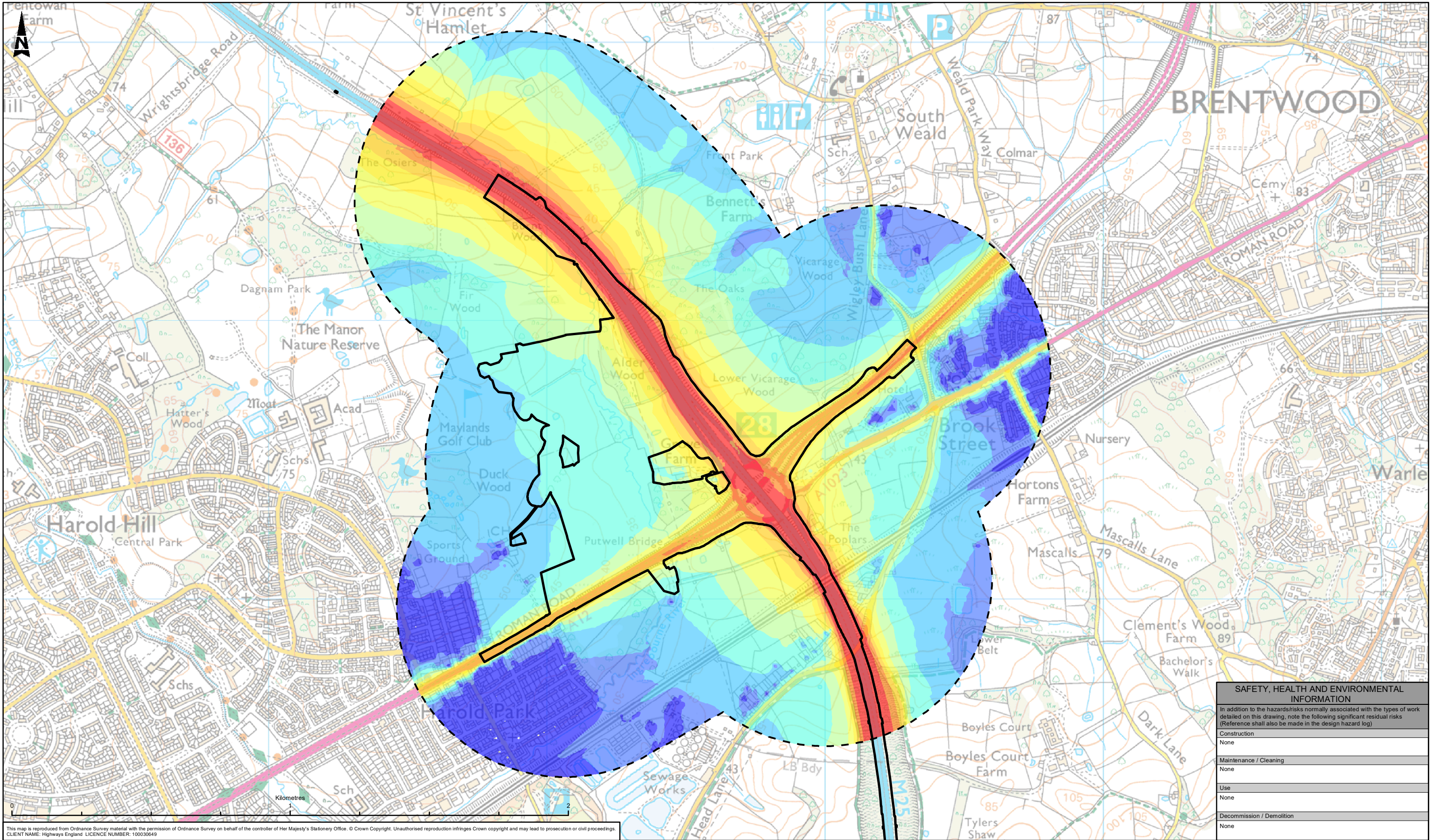
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
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LEGEND


 DCO Boundary


 600m Study Area


Noise Level dB L_{night}


 >70.0 dB


 67.5 - 70.0 dB


 65.0 - 67.5 dB


 62.5 - 65.0 dB


 60.0 - 62.5 dB

 57.5 - 60.0 dB


 55.0 - 57.5 dB

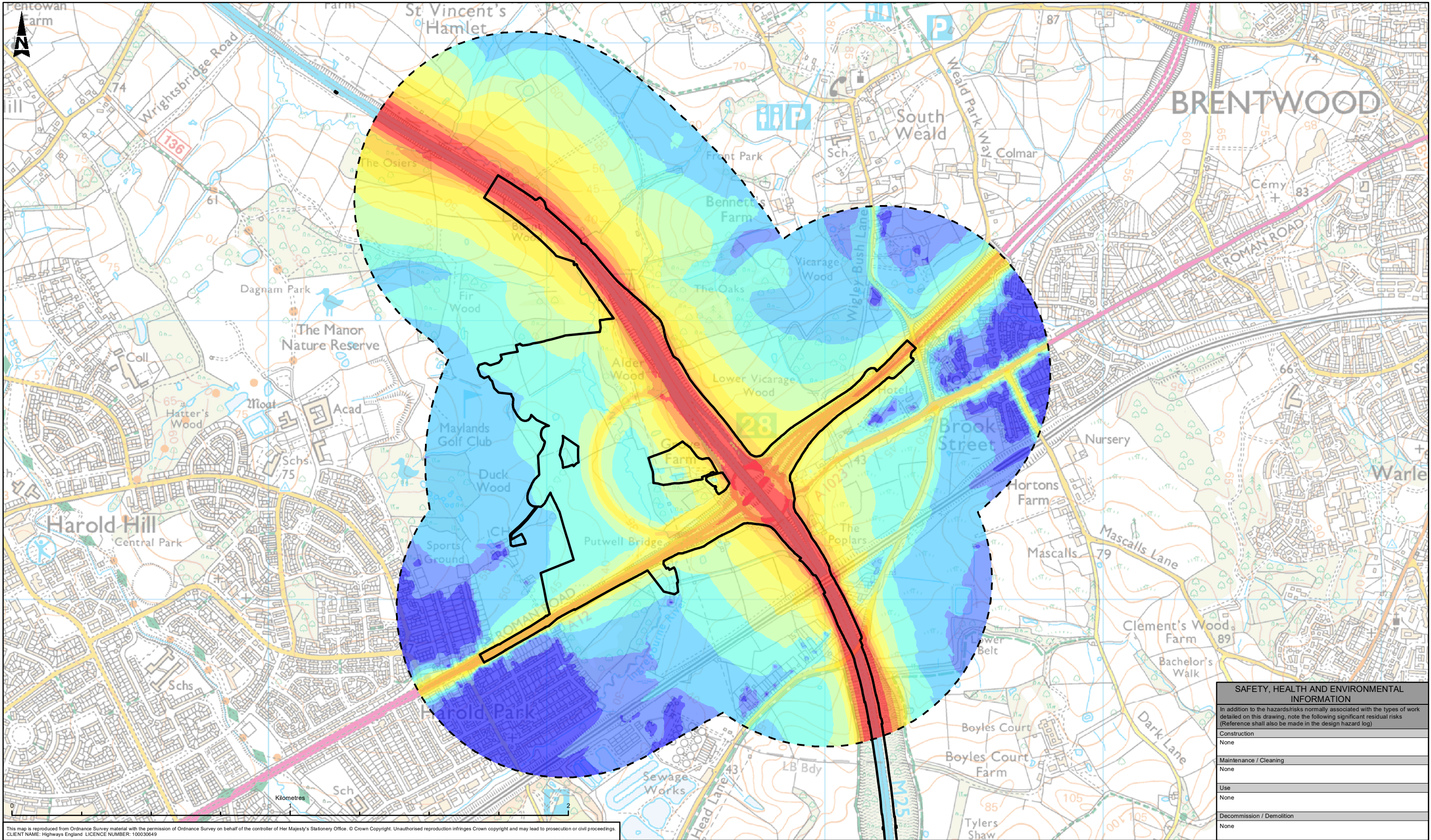
 52.5 - 55.0 dB

 50.0 - 52.5 dB

 < 50.0 dB

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Description		Drawing Suitability	Status	Project Title				
Status		PUBLISHED	A1	M25 Junction 28				
Revision								
Drawn								
Checked								
Reviewed		ATKINS Member of the SNC-Lavalin Group		Drawing Title				
Description								
Status								
Revision								
Drawn		Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055 www.atkinsglobal.com		FIGURE 6.14 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DM37				
Checked								
Reviewed								
Authorised								
Issue Date		Copyright © Atkins Limited (2021)		Drawing Number				
Description								
Status								
Revision								
Drawn				Project HE551519 - ATK - ENV XX - GS - GI - 000014				
Checked								
Reviewed								
Authorised								
Issue Date		Client						
Description								
Status								
Revision								
Drawn		Original Size: A3	Scale: 1:12,500	Project Ref. No: ---				
Checked								
Reviewed								
Authorised								
Issue Date								
Status		Sheet: 1 of 1	Rev: C03					
Revision								
Drawn								
Checked								



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CLIENT NAME: Highways England LICENCE NUMBER: 100030649

LEGEND

	DCO Boundary	Noise Level dB L_{night}		57.5 - 60.0
	600m Study Area		>70.0	
			67.5 - 70.0	
			65.0 - 67.5	
			62.5 - 65.0	
			60.0 - 62.5	
			55.0 - 57.5	
			52.5 - 55.0	
			50.0 - 52.5	
			<50.0	

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

PUBLISHED

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A1

highways
england

Project

Originator

Volume

HE551519 - ATK - ENV

XX - GS - GI - 000015

Location

Type

Role

Number

Rev

Original Size: A3

Scale: 1:12,500

Project Ref. No: ---

Sheet: 1 of 1

C04

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Project Title	M25 Junction 28
Drawing Title	FIGURE 6.15 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DS37
Drawing Number	Project HE551519 - ATK - ENV XX - GS - GI - 000015 Originator Volume Location Type Role Number Rev

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