

# 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 ]

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#### 6.2 ENVIRONMENTAL STATEMENT CHAPTER 6: NOISE AND VIBRATION FIGURES

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

Version	Date	Status of Version
<u>3</u>	<u>April 2021</u>	<u>Deadline 5, incorporated changes 1-4, updates to Grove Farm</u>
2	February 2021	Deadline 3a
1	May 2020	Application issue

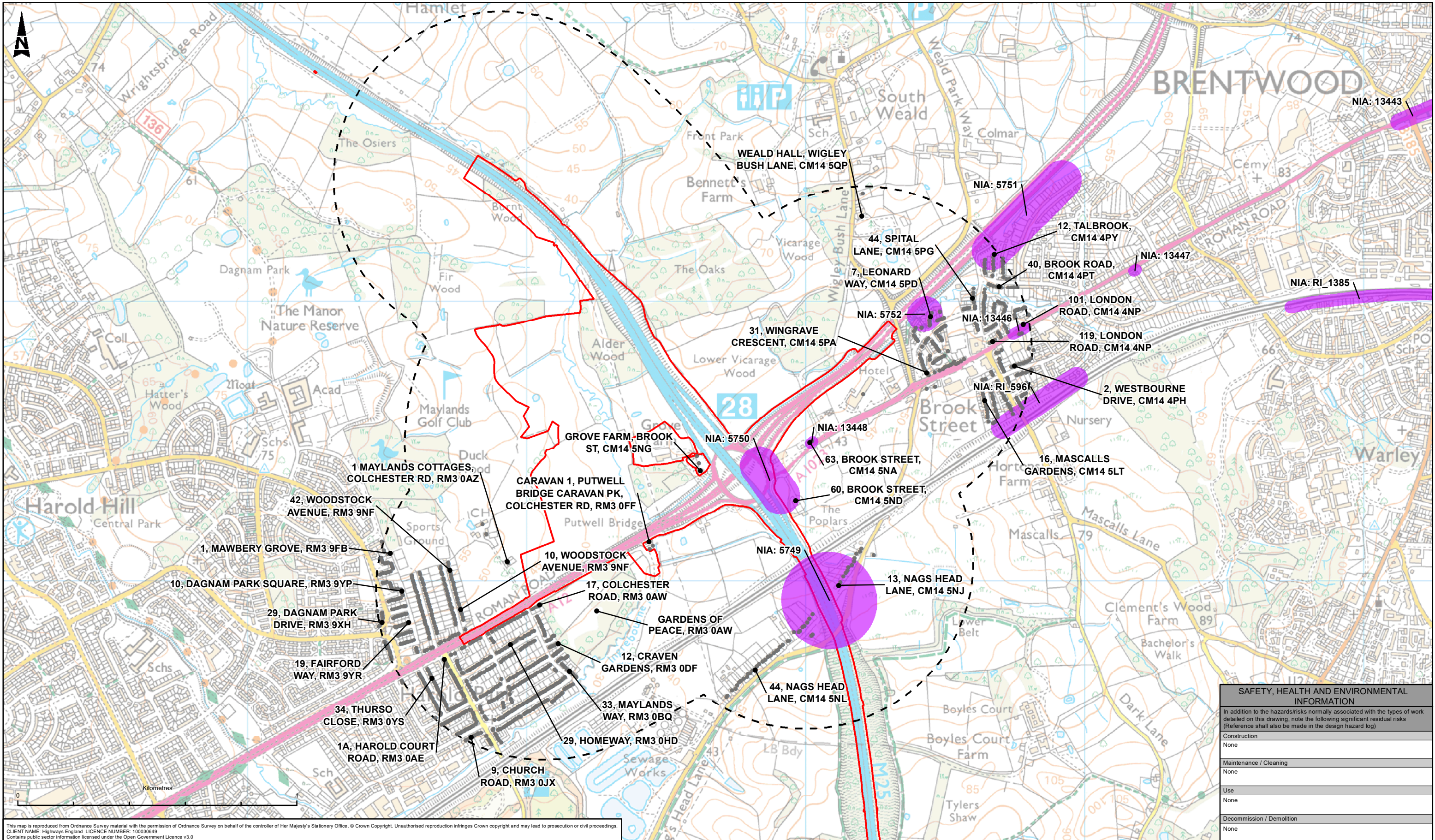
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# 1. Schedule of figures included in this application document

## 1.1.1 Revised Figures 6.1, 6.6, 6.8, 6.9, 6.10, 6.13 and 6.15 have been submitted at Deadline 5.

Document title	Document number	Revision
Figure 6.1 Study Area and Sensitive Receptors	TR010029/APP/6.2	<del>2</del> 4
Figure 6.2 DEFRA Noise Maps (Day)	TR010029/APP/6.2	0
Figure 6.3 DEFRA Noise Maps (Night)	TR010029/APP/6.2	0
Figure 6.4 Noise Survey Locations	TR010029/APP/6.2	0
Figure 6.5 Predicted Daytime Road Traffic Noise Levels, DM22	TR010029/APP/6.2	0
Figure 6.6 Predicted Daytime Road Traffic Noise Levels, DS22	TR010029/APP/6.2	<del>1</del> 0
Figure 6.7 Predicted Daytime Road Traffic Noise Levels, DM37	TR010029/APP/6.2	0
Figure 6.8 Predicted Daytime Road Traffic Noise Levels, DS37	TR010029/APP/6.2	<del>1</del> 0
Figure 6.9 Short Term Change (DS22-DM22)	TR010029/APP/6.2	<del>2</del> 4
Figure 6.10 Long Term Change with the Scheme (DS37-DM22)	TR010029/APP/6.2	<del>2</del> 4
Figure 6.11 Long Term Change without the Scheme (DM37-DM22)	TR010029/APP/6.2	1
Figure 6.12 Predicted Night-time Road Traffic Noise Levels, DM22	TR010029/APP/6.2	0
Figure 6.13 Predicted Night-time Road Traffic Noise Levels, DS22	TR010029/APP/6.2	<del>1</del> 0
Figure 6.14 Predicted Night-time Road Traffic Noise Levels, DM37	TR010029/APP/6.2	0
Figure 6.15 Predicted Night-time Road Traffic Noise Levels, DS37	TR010029/APP/6.2	<del>1</del> 0



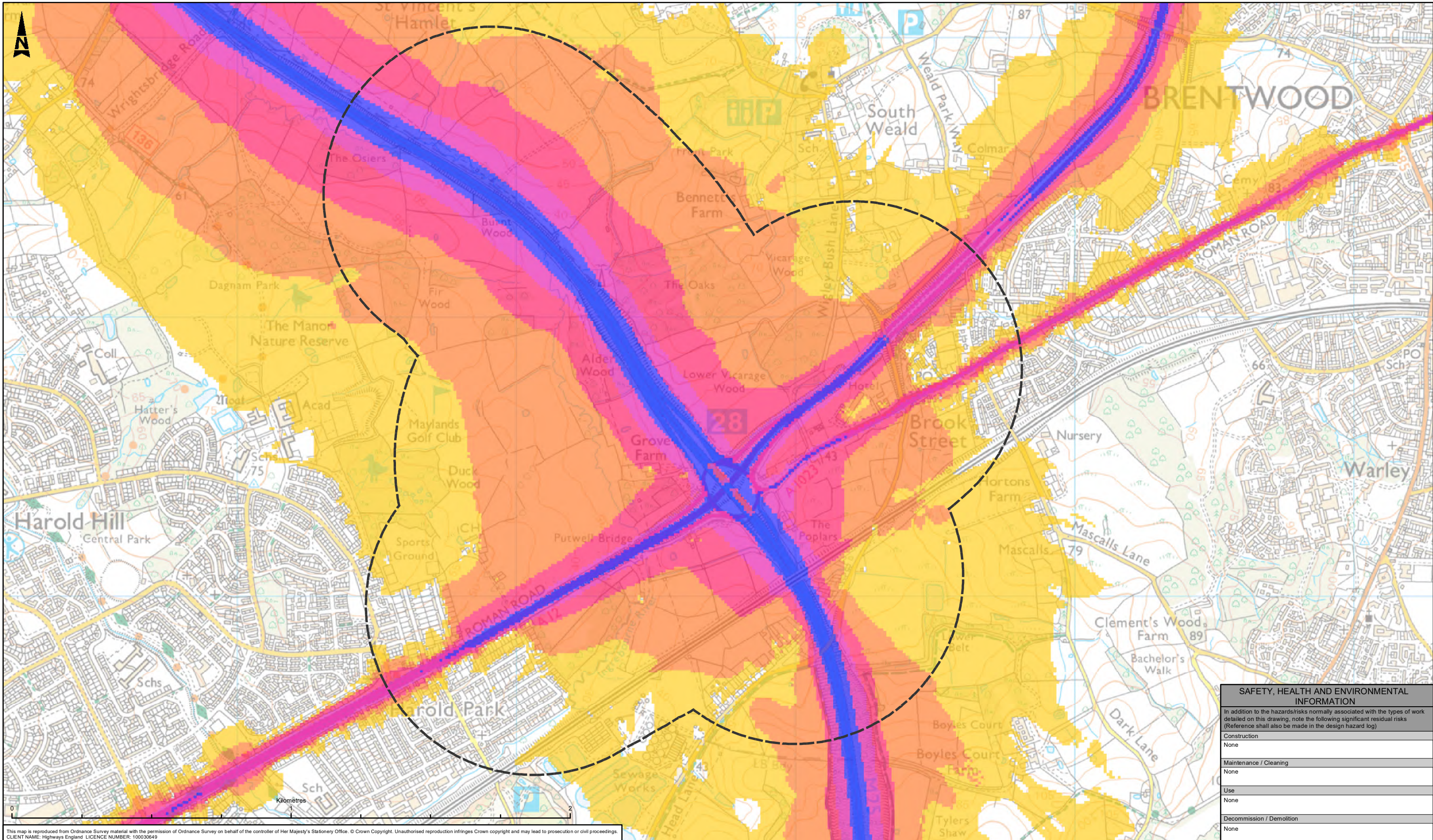
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**LEGEND**

- DCO Scheme Boundary
- 600m Road Traffic Noise Study Area
- Noise Important Areas
- Modelled Noise Sensitive Receptors
- Selected Noise Sensitive Receptors

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

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<p>Client  <b>highways england</b></p>					<p>Drawing Title  <b>FIGURE 6.1          STUDY AREA AND SENSITIVE RECEPTORS</b></p>		<p>Drawing Number          Project: HE551519 - ATK - ENV          Originator: XX - GS - GI - 000001          Volume: ---</p>	
<p>Original Size: A3 Scale: 1:12,500 Project Ref. No.: --- Sheet: 1 of 1 Rev: C04</p>					<p>Status: A1 Revision: C03 Drawn: SD Checked: LM Reviewed: EM Authorised: PG Issue Date: 11/02/21</p>		<p>Status: A1 Revision: C02 Drawn: FS Checked: FH Reviewed: EM Authorised: PG Issue Date: 19/03/20</p>	



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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

**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)

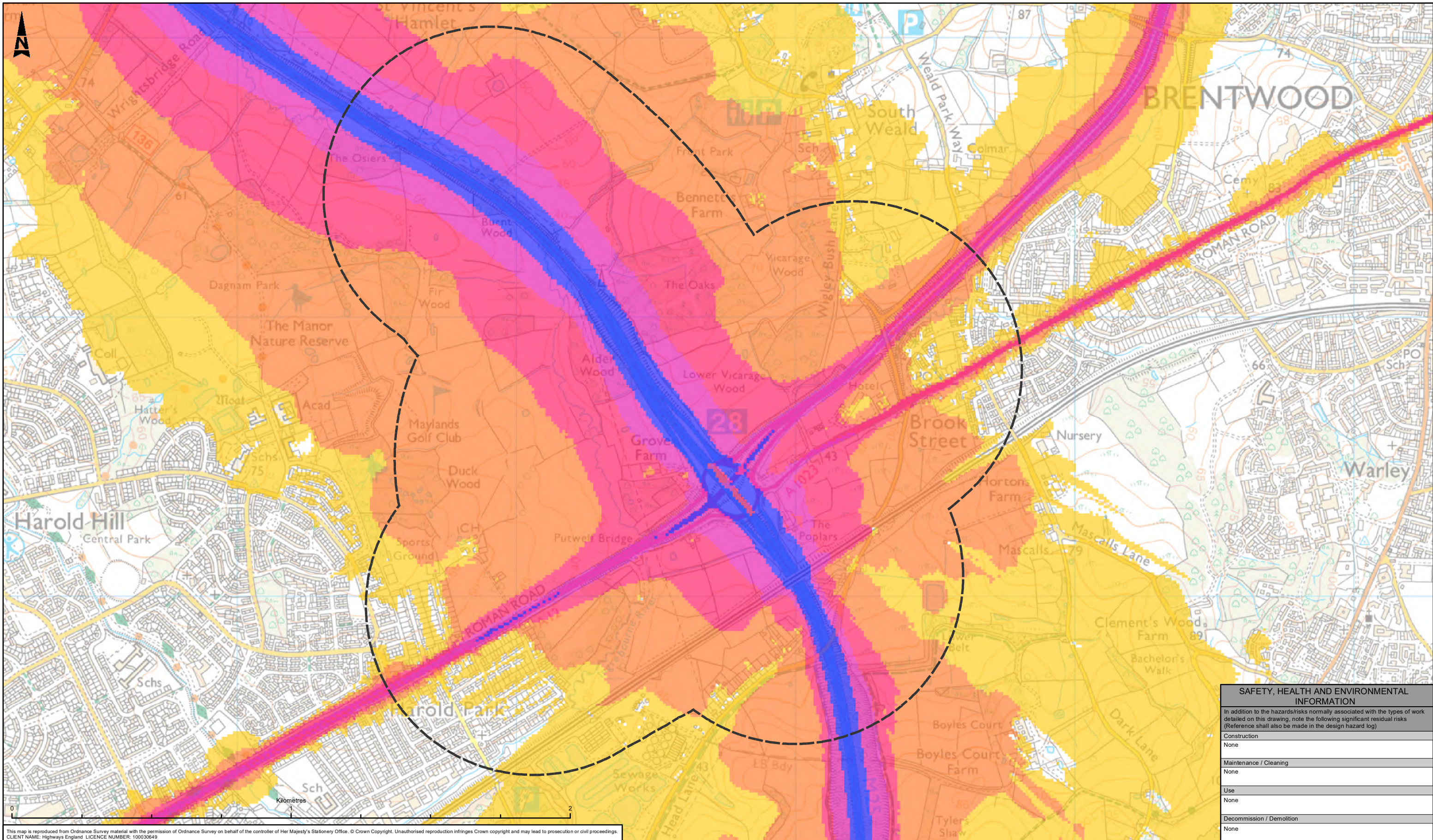
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	<b>M25 Junction 28</b>
PUBLISHED						18/03/20	
Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	<b>FIGURE 6.2 DEFRA NOISE MAPS (DAY)</b>
PUBLISHED						18/03/20	
Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	<b>HE551519 - ATK - ENV XX - GS - GI - 000002</b>
PUBLISHED						18/03/20	
Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	<b>1 of 1</b>
PUBLISHED						18/03/20	

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Client	Project	Originator	Volume
	HE551519 - ATK - ENV	XX - GS - GI - 000002	
Location	Type	Role	Number
A3	1:12,500	---	1 of 1
Original Size:	Scale	Project Ref. No.:	Rev:
A3	1:12,500	---	C02



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

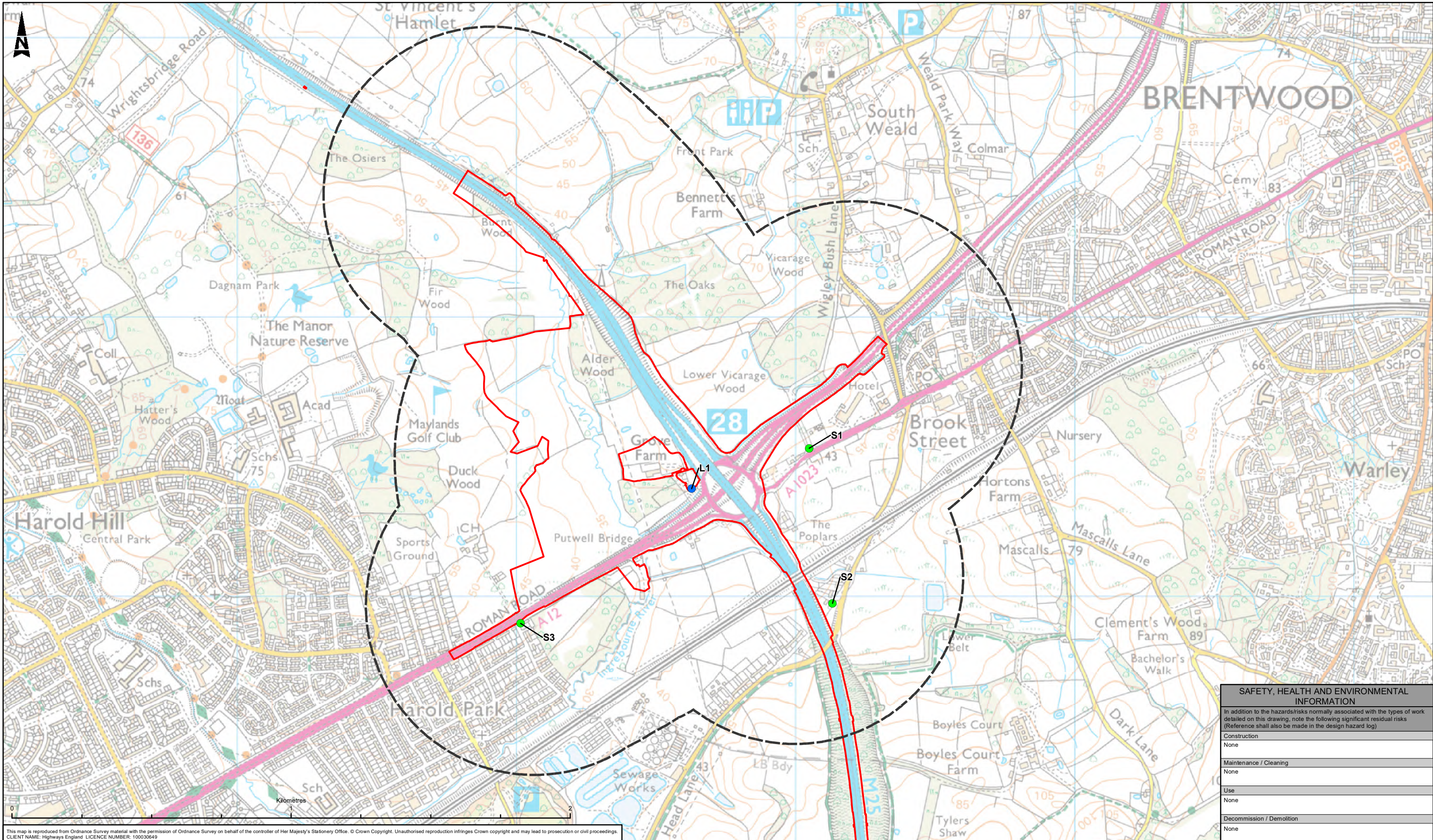
LEGEND							
600m Study Area							
Road Noise Level $L_{night}$ 8hr (23:00-07:00)							
50.0 - 54.9 dB							
55.0 - 59.9 dB							
60.0 - 64.9 dB							
65.0 - 69.9 dB							
70.0 dB or greater							

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1		RS	PH	EM	PG	19/03/20

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Project Title	M25 Junction 28						
Drawing Title	FIGURE 6.3 DEFRA NOISE MAPS (NIGHT)						
Drawing Number	Project	Originator	Volume				
	HE551519 - ATK - ENV	XX - GS - GI - 000003					
Original Size: A3	Scale: 1:12,500	Project Ref. No: --	Sheet: 1 of 1	Rev: C02			



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- LEGEND**
- DCOScheme Boundary
  - 600m Study Area
  - Noise Monitoring Locations**
  - Long Term Monitoring
  - Short Term Monitoring

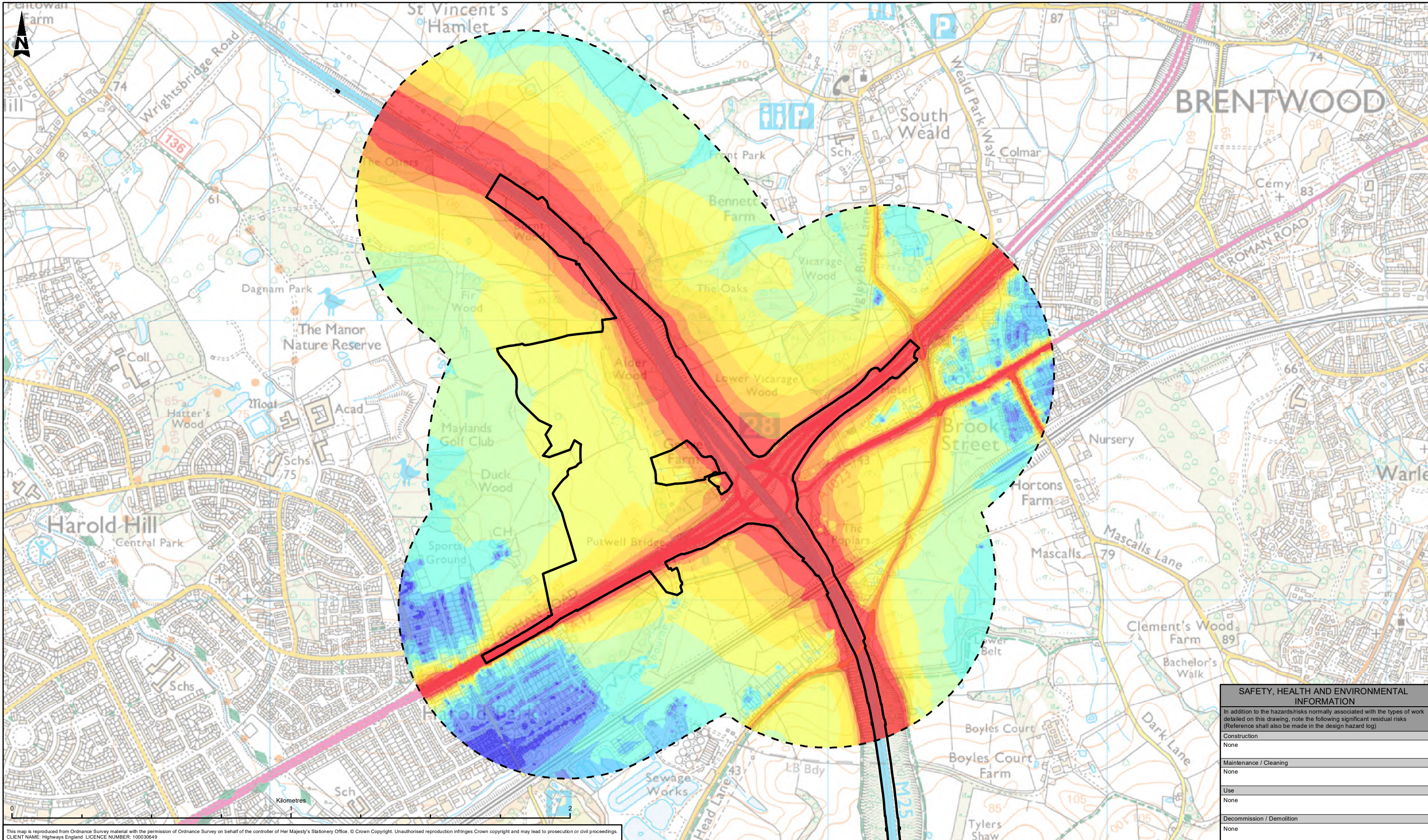
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use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

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Project Title	M25 Junction 28
Drawing Title	FIGURE 6.4 NOISE SURVEY LOCATIONS
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000004 Volume: 1 of 1
Original Size: A3	Scale: 1:12,500 Project Ref. No.: -- Sheet: 1 of 1 Rev: C02





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Construction	None
Maintenance / Clearing	None
Use	None
Decommission / Demolition	None

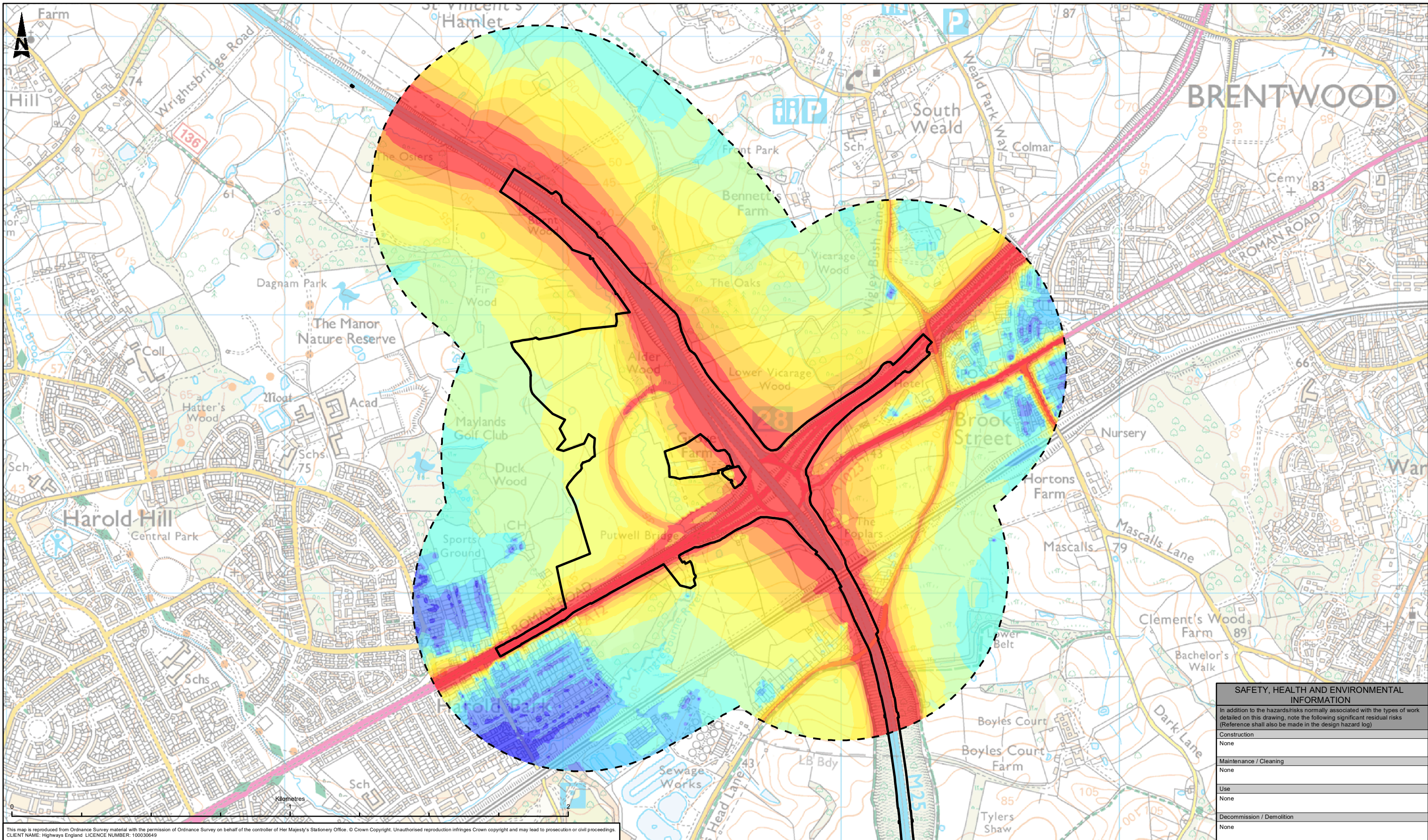
LEGEND	
	DCO Scheme Boundary
	600m Study Area
	Noise Level dB L <sub>A10,15hr</sub> >70.0 dB
	67.5 - 70.0 dB
	65.0 - 67.5 dB
	62.5 - 65.0 dB
	60.0 - 62.5 dB
	57.5 - 60.0 dB
	55.0 - 57.5 dB
	52.5 - 55.0 dB
	50.0 - 52.5 dB
	< 50.0 dB

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1						18/03/20

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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
Original Size	A3
Scale	1:12,500
Project Ref. No.	---
Sheet	1 of 1
Rev.	C02



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

LEGEND	
	DCO Scheme Boundary
	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

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C03	SD	AL	EM	PG	08/04/21
PUBLISHED	A1	C02	KV	PH	EM	PG	08/03/20

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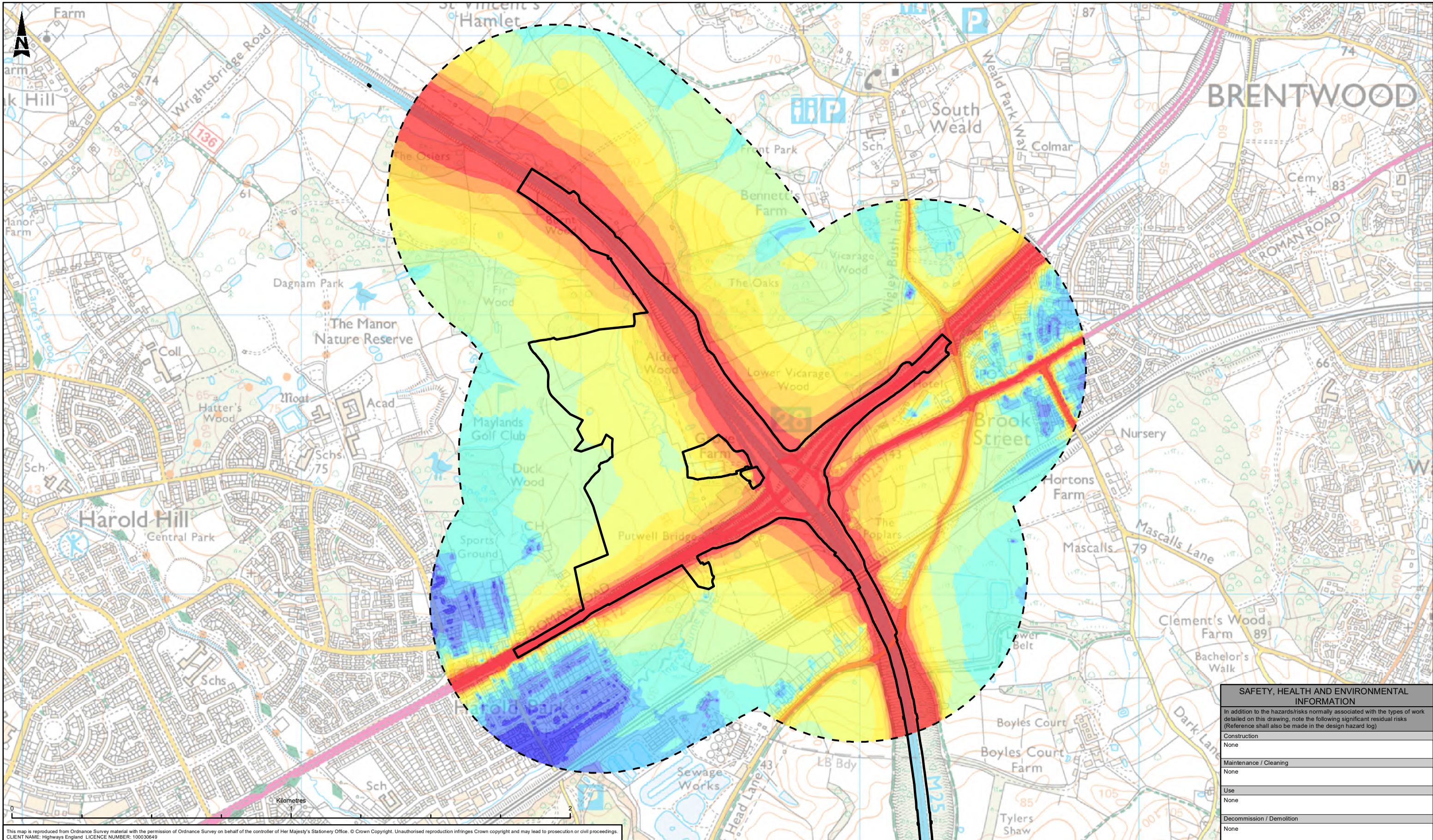
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Project Title	M25 Junction 28
Drawing Title	FIGURE 6.6 PREDICTED DAYTIME ROAD TRAFFIC NOISE LEVELS, DS22
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000006 Volume: 1 of 1
Original Size: A3	Scale: 1:12,500 Project Ref. No.: -- Sheet: 1 of 1 Rev: C03



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LEGEND	
	DCO Scheme Boundary
	600m Study Area
	Noise Level dB LA10,15hr >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						18/03/20

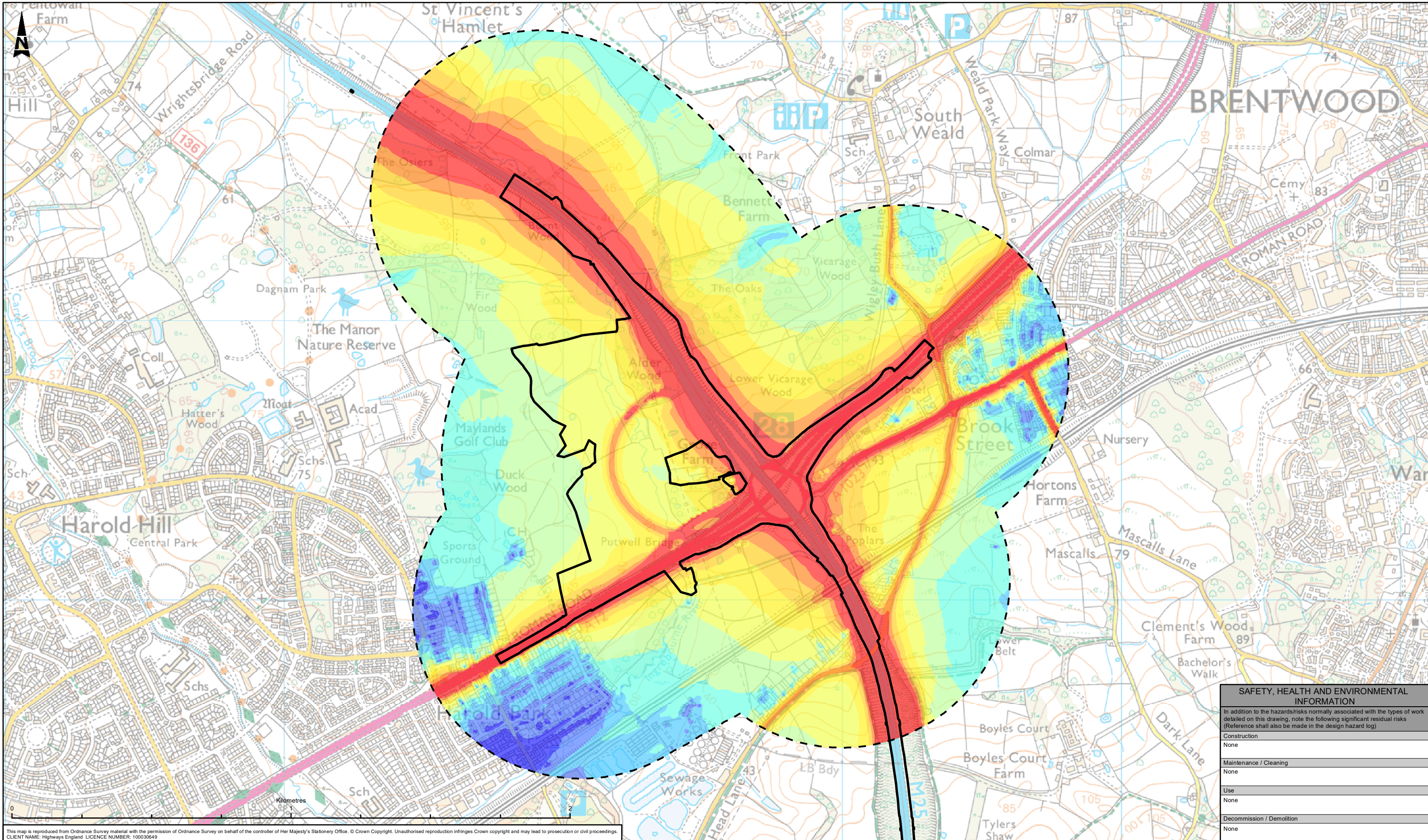
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None
Project Title	M25 Junction 28
Drawing Title	FIGURE 6.7 PREDICTED DAYTIME ROAD TRAFFIC NOISE LEVELS, DM37
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000007 Volume: ---
Original Size: A3	Scale: 1:12,500 Project Ref. No.: --- Sheet: 1 of 1 Rev: C02



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LEGEND	
	DCO Scheme Boundary
	600m Study Area
	>70.0
	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

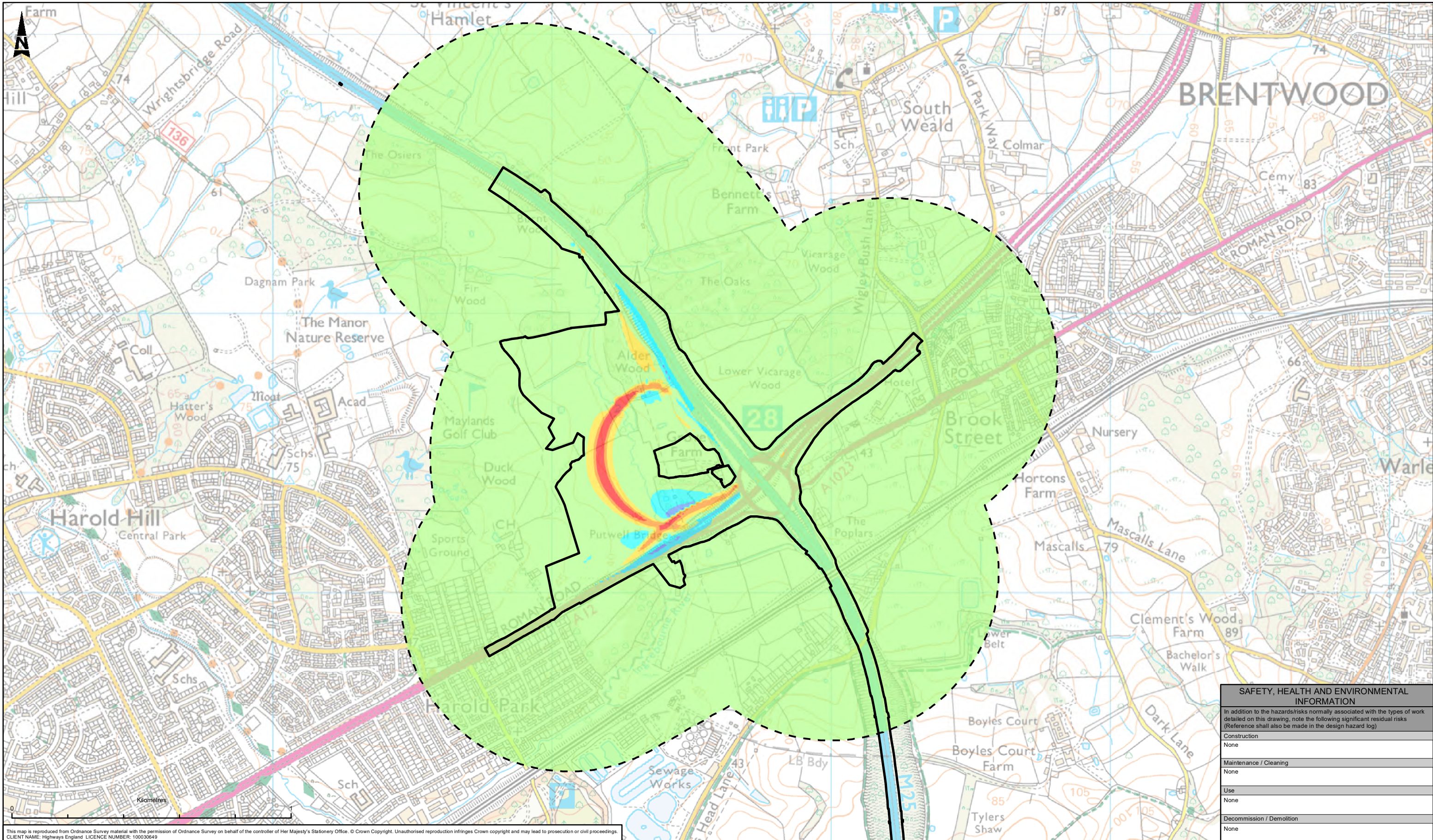
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PUBLISHED	A1	C03	SD	AL	EM	PG	08/04/21
PUBLISHED	A1	C02	KV	PH	EM	PG	18/03/20

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C03	SD	AL	EM	PG	08/04/21
PUBLISHED	A1	C02	KV	PH	EM	PG	18/03/20

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Project Title	M25 Junction 28
Drawing Title	FIGURE 6.8 PREDICTED DAYTIME ROAD TRAFFIC NOISE LEVELS, DS37
Drawing Number	HE551519 - ATK - ENV XX - GS - GI - 000008
Original Size	A3
Scale	1:12,500
Project Ref. No.	---
Sheet	1 of 1
Rev.	C03



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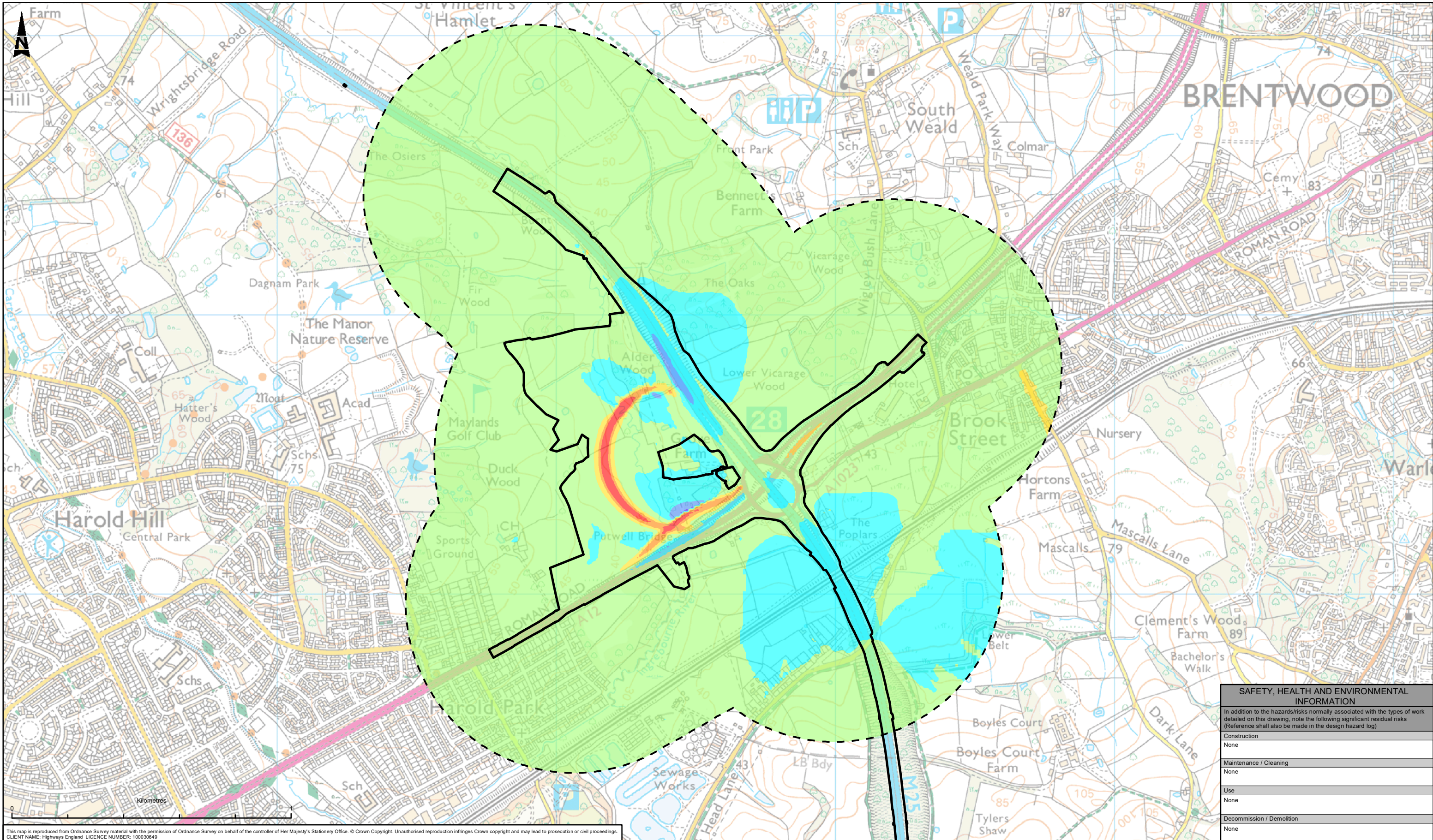
LEGEND	
	DCO Boundary
	600m Study Area
	Noise Level dB L <sub>A10,18hr</sub> 5.0 to 10.0 dB
	3.0 to 5.0 dB
	1.0 to 3.0 dB
	-1.0 to 1.0 dB
	-3.0 to -1.0 dB
	-5.0 to -3.0 dB
	-10.0 to -5.0 dB

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C04	SD	AL	EM	PG	12/04/21
PUBLISHED	A1	C03	SD	LM	EM	PG	11/02/21
PUBLISHED	A1	C02	KV	FH	EM	PG	18/03/20

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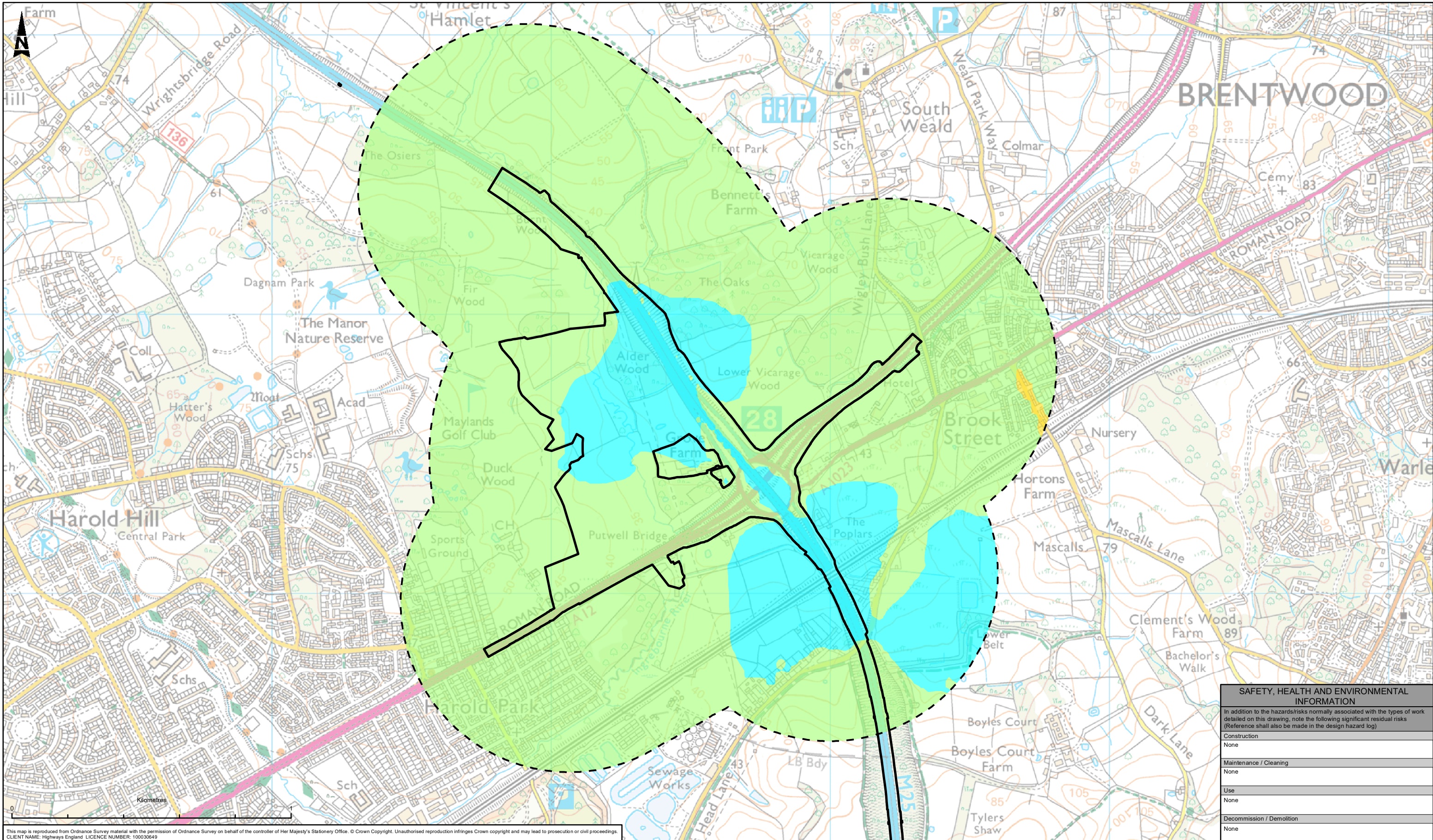
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None
Project Title	M25 Junction 28
Drawing Title	FIGURE 6.9 SHORT TERM CHANGE (DS22-DM22)
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000009 Volume: ---
Original Size: A3	Scale: 1:12,500 Project Ref. No: --- Sheet: 1 of 1 Rev: C04



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

<b>LEGEND</b> DCO Boundary 600m Study Area <b>Noise Level dB L<sub>A10,18hr</sub></b> 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	<table border="1"> <tr><th colspan="7">Description</th></tr> <tr><td>Status</td><td>Revision</td><td>Drawn</td><td>Checked</td><td>Reviewed</td><td>Authorised</td><td>Issue Date</td></tr> <tr><td>PUBLISHED</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>A1</td><td>C04</td><td>SD</td><td>AL</td><td>EM</td><td>PG</td><td>08/04/21</td></tr> </table>	Description							Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED							A1	C04	SD	AL	EM	PG	08/04/21	<table border="1"> <tr><th colspan="2">Drawing Suitability</th></tr> <tr><td><b>PUBLISHED</b></td><td>Status</td></tr> <tr><td><b>ATKINS</b></td><td><b>A1</b></td></tr> <tr><td>Member of the SNC-Lavalin Group</td><td></td></tr> <tr><td>Copyright © Atkins Limited (2021)</td><td></td></tr> </table>	Drawing Suitability		<b>PUBLISHED</b>	Status	<b>ATKINS</b>	<b>A1</b>	Member of the SNC-Lavalin Group		Copyright © Atkins Limited (2021)		<table border="1"> <tr><td colspan="3">Project Title</td></tr> <tr><td colspan="3">M25 Junction 28</td></tr> <tr><td colspan="3">Drawing Title</td></tr> <tr><td colspan="3">FIGURE 6.10 LONG TERM CHANGE WITH THE SCHEME (DS37-DM22)</td></tr> <tr><td colspan="3">Drawing Number</td></tr> <tr><td colspan="3">Project   Originator   Volume</td></tr> <tr><td colspan="3">HE551519 - ATK - ENV</td></tr> <tr><td colspan="3">XX - GS - GI - 000010</td></tr> <tr><td colspan="3">Original Location Type Role Number</td></tr> <tr><td colspan="3">Size: A3 Scale 1:12,500 Project Ref. No. --- Sheet 1 of 1 Rev: C04</td></tr> </table>	Project Title			M25 Junction 28			Drawing Title			FIGURE 6.10 LONG TERM CHANGE WITH THE SCHEME (DS37-DM22)			Drawing Number			Project   Originator   Volume			HE551519 - ATK - ENV			XX - GS - GI - 000010			Original Location Type Role Number			Size: A3 Scale 1:12,500 Project Ref. No. --- Sheet 1 of 1 Rev: C04		
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FIGURE 6.10 LONG TERM CHANGE WITH THE SCHEME (DS37-DM22)																																																																							
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LEGEND	
	DCO Boundary
	600m Study Area
	Noise Level dB L <sub>A10,18hr</sub> 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

**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)

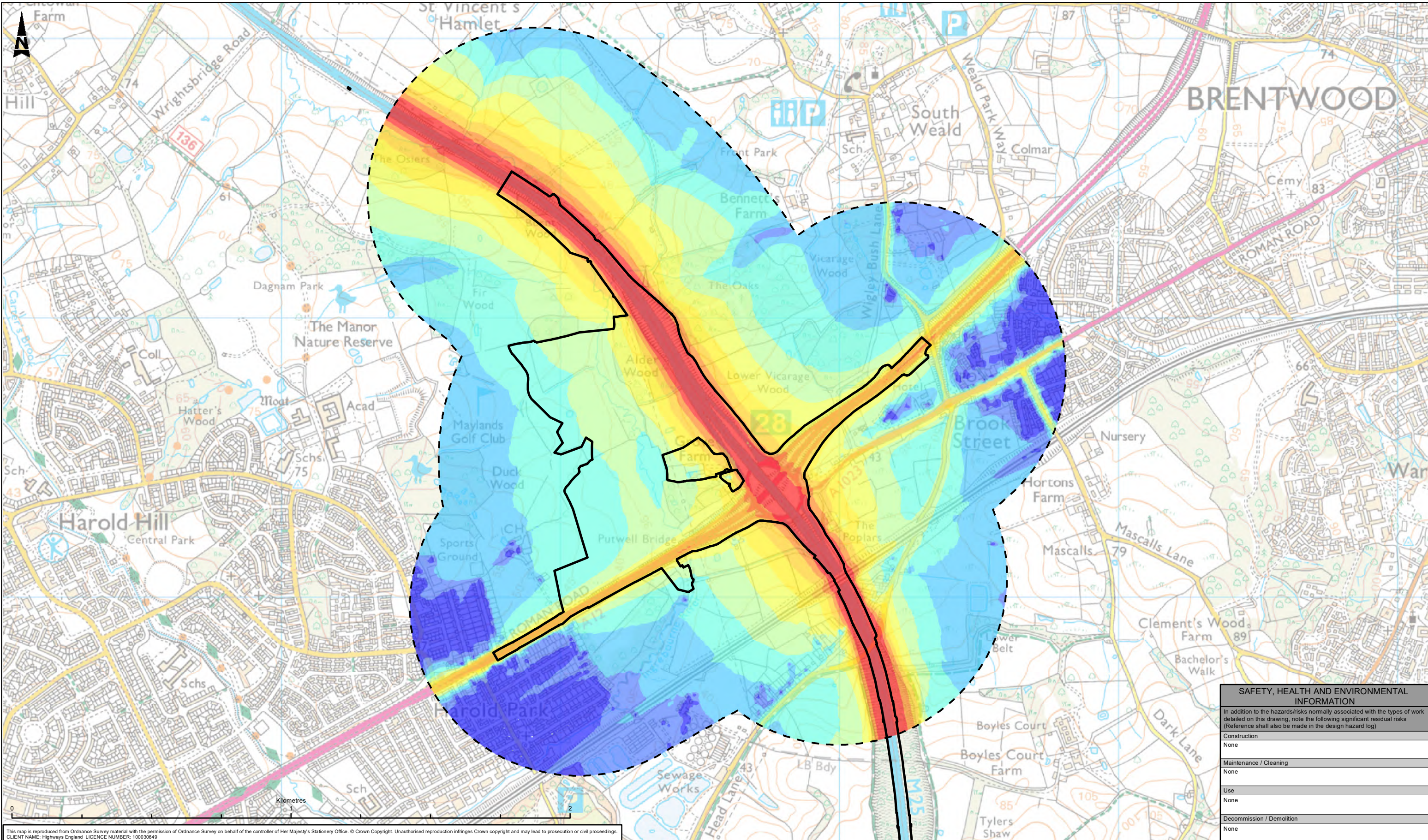
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C03	SD	LM	EM	PG	11/02/21
PUBLISHED	A1	C02	KV	FH	EM	PG	01/05/20

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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
Original Size: A3	Scale: 1:12,500
Project Ref. No.:	---
Sheet:	1 of 1
Rev:	C03



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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

LEGEND	
	DCO Scheme Boundary
	600m Study Area
Noise Level dB L <sub>night</sub>	
	>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	C02	KV	PH	EM	PG	18/03/20

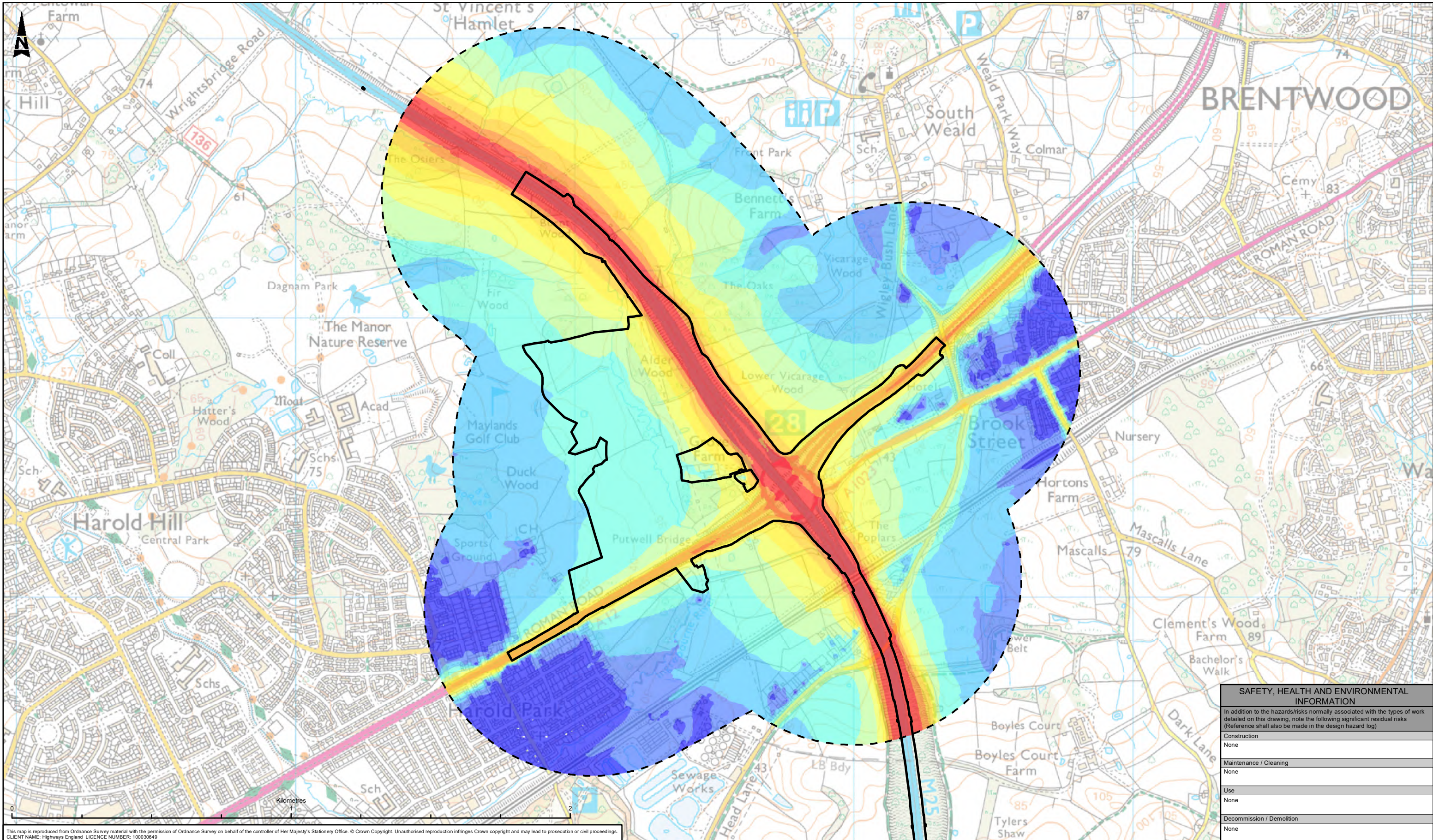
Drawing Suitability	
<b>PUBLISHED</b>	Status: <b>A1</b>

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Project Title	M25 Junction 28
Drawing Title	FIGURE 6.12 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DM22
Drawing Number	Project: HE551519 - ATK - XXXX Originator: XX - GS - GI - XXXXXXXX Volume: 1 of 1
Original Size: A3	Scale: 1:12,500 Project Ref. No.: --- Sheet: 1 of 1 Rev: C02



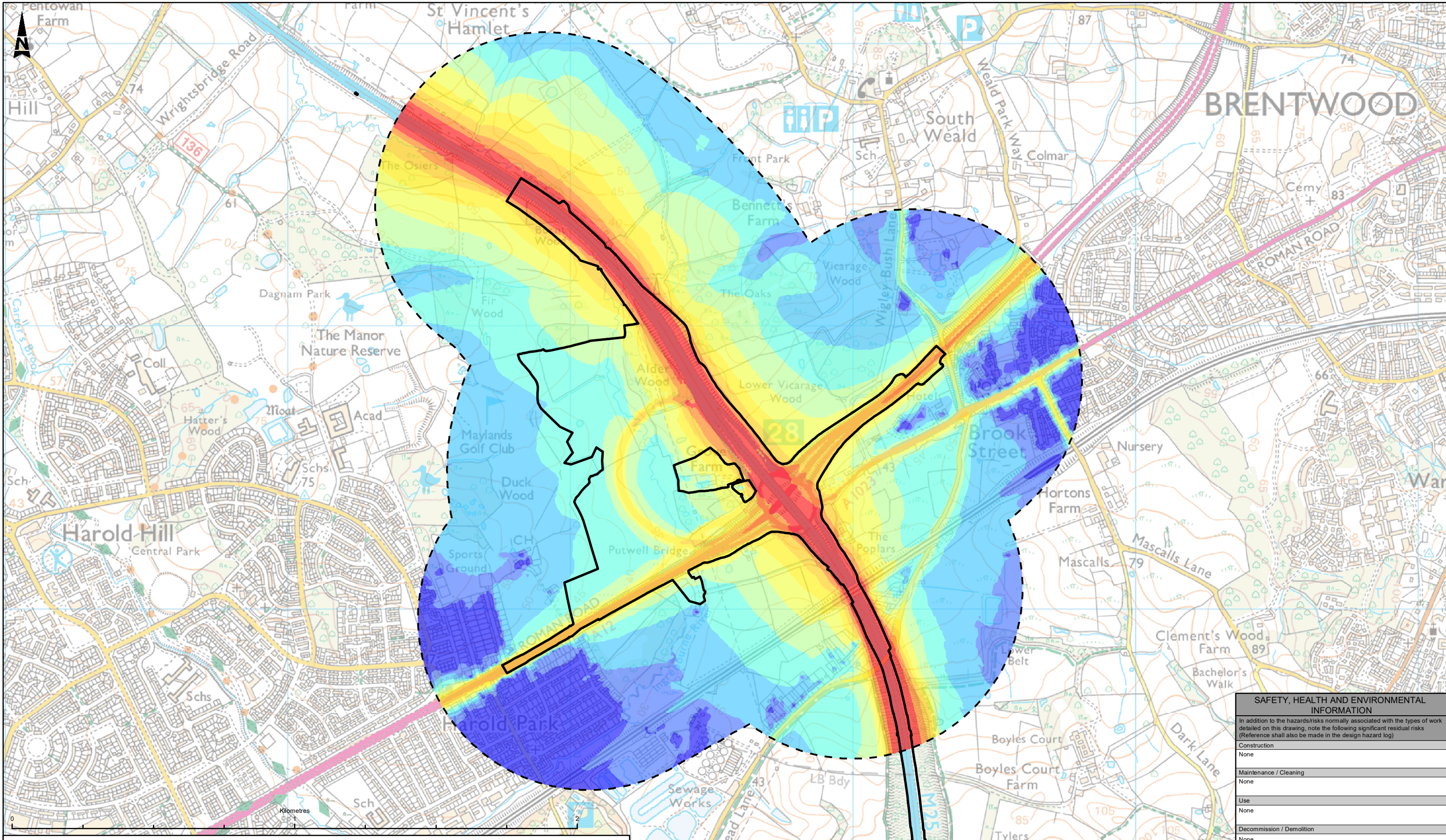




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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)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

<b>LEGEND</b> DCO Scheme Boundary 600m Study Area		<b>Noise Level dB L<sub>night</sub></b> >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		<b>ATKINS</b> Member of the SNC-Lavalin Group Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055 Copyright © Atkins Limited (2020) www.atkinsglobal.com		<b>highways england</b>																																																																	
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<b>Project Title</b> M25 Junction 28		<b>Drawing Title</b> FIGURE 6.14 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DM37		<b>Drawing Number</b> Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000014 Volume:																																																																			
<b>Original Size:</b> A3		<b>Scale:</b> 1:12,500		<b>Project Ref. No.:</b> ---																																																																			
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LEGEND	
	DCO Scheme Boundary
	600m Study Area
	Noise Level dB L night >70.0
	67.5 - 70.0
	65.0 - 67.5
	62.5 - 65.0
	60.0 - 62.5
	57.5 - 60.0
	55.0 - 57.5
	52.5 - 55.0
	50.0 - 52.5
	< 50.0

**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	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C03	SD	AL	EM	PG	08/04/21
PUBLISHED	A1	C02	KV	PH	EM	PG	18/03/20

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Project Title	M25 Junction 28
Drawing Title	FIGURE 6.15 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DS37
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000015 Volume: ---
Original Size: A3	Scale: 1:12,500 Project Ref. No.: --- Sheet: 1 of 1 Rev: C03

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