

# 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

---

<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 scheme, Project Team, Highways England

<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
2	February 2021	Deadline 3a
1	May 2020	Application issue

# Table of contents

Chapter	Pages
1. Schedule of figures included in this application document	4

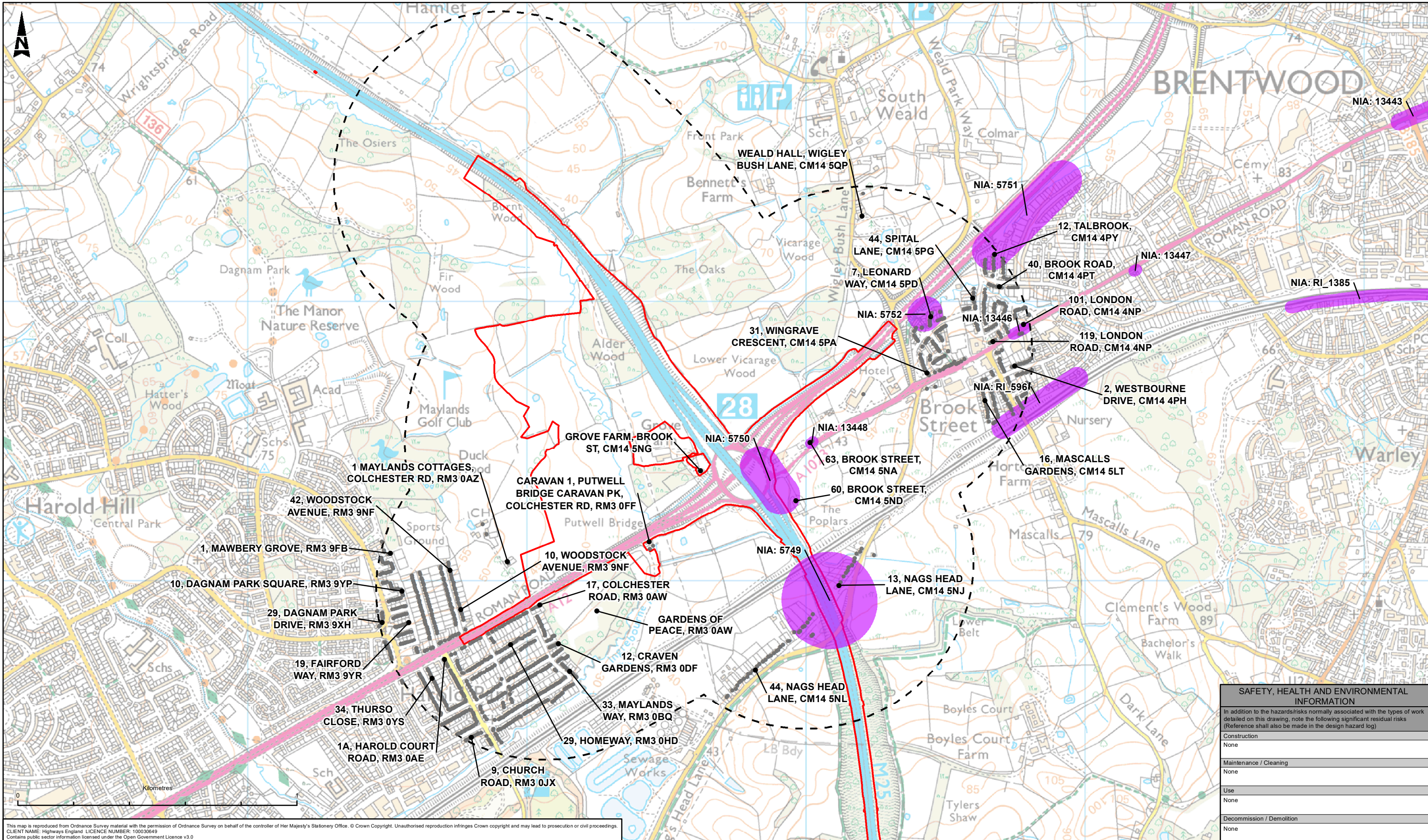


# 1. Schedule of figures included in this application document

1.1.1 Revised Figures 6.1, 6.9, 6.10 and 6.11 have been submitted at Deadline 3a.

Document title	Document number	Revision
Figure 6.1 Study Area and Sensitive Receptors	TR010029/APP/6.2	1
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	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	0
Figure 6.9 Short Term Change (DS22-DM22)	TR010029/APP/6.2	1
Figure 6.10 Long Term Change with the Scheme (DS37-DM22)	TR010029/APP/6.2	1
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	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	0





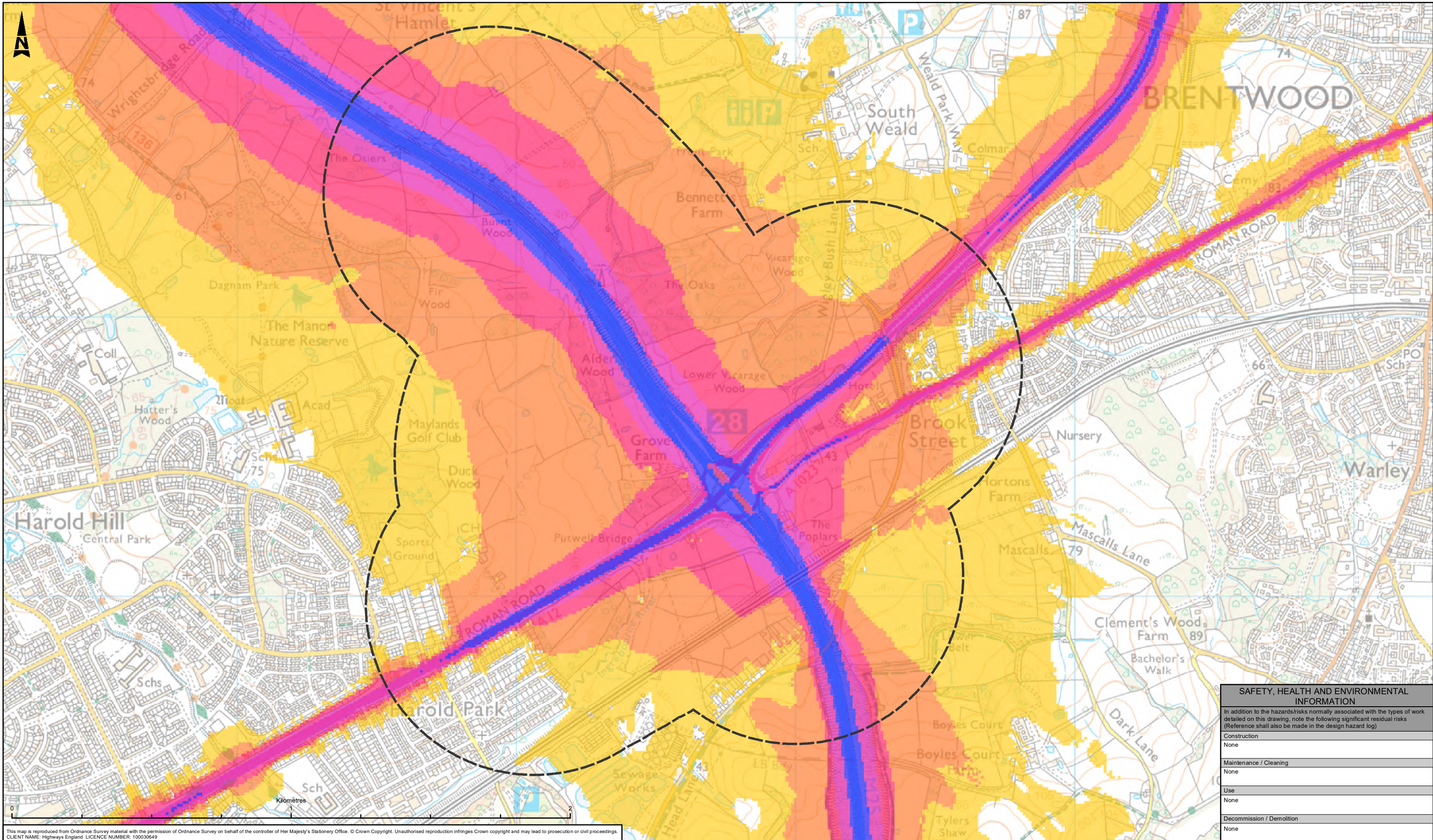
This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 10003849  
 Contains public sector information licensed under the Open Government Licence v3.0

- 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

<table border="1"> <tr> <th>Description</th> <th>Status</th> <th>Revision</th> <th>Drawn</th> <th>Checked</th> <th>Reviewed</th> <th>Authorised</th> <th>Issue Date</th> </tr> <tr> <td>PUBLISHED</td> <td>A1</td> <td>C03</td> <td>SD</td> <td>LM</td> <td>EM</td> <td>PG</td> <td>11/02/21</td> </tr> </table>	Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED	A1	C03	SD	LM	EM	PG	11/02/21	<table border="1"> <tr> <th>Description</th> <th>Status</th> <th>Revision</th> <th>Drawn</th> <th>Checked</th> <th>Reviewed</th> <th>Authorised</th> <th>Issue Date</th> </tr> <tr> <td>PUBLISHED</td> <td>A1</td> <td>C02</td> <td>RS</td> <td>FH</td> <td>EM</td> <td>PG</td> <td>19/03/20</td> </tr> </table>	Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED	A1	C02	RS	FH	EM	PG	19/03/20	<table border="1"> <tr> <th colspan="2">Drawing Suitability</th> <th>Status</th> </tr> <tr> <td colspan="2" style="text-align: center;"><b>PUBLISHED</b></td> <td style="text-align: center;"><b>A1</b></td> </tr> </table>	Drawing Suitability		Status	<b>PUBLISHED</b>		<b>A1</b>	<table border="1"> <tr> <td colspan="2">Project Title</td> <td colspan="2">M25 Junction 28</td> </tr> <tr> <td colspan="2">Drawing Title</td> <td colspan="2">FIGURE 6.1 STUDY AREA AND SENSITIVE RECEPTORS</td> </tr> <tr> <td colspan="2">Drawing Number</td> <td colspan="2">Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000001 Volume: ---</td> </tr> <tr> <td>Original Size: A3</td> <td>Scale: 1:12,500</td> <td>Project Ref. No: ---</td> <td>Sheet: 1 of 1</td> </tr> </table>	Project Title		M25 Junction 28		Drawing Title		FIGURE 6.1 STUDY AREA AND SENSITIVE RECEPTORS		Drawing Number		Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000001 Volume: ---		Original Size: A3	Scale: 1:12,500	Project Ref. No: ---	Sheet: 1 of 1
	Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																																																	
	PUBLISHED	A1	C03	SD	LM	EM	PG	11/02/21																																																	
	Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																																																	
PUBLISHED	A1	C02	RS	FH	EM	PG	19/03/20																																																		
Drawing Suitability		Status																																																							
<b>PUBLISHED</b>		<b>A1</b>																																																							
Project Title		M25 Junction 28																																																							
Drawing Title		FIGURE 6.1 STUDY AREA AND SENSITIVE RECEPTORS																																																							
Drawing Number		Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000001 Volume: ---																																																							
Original Size: A3	Scale: 1:12,500	Project Ref. No: ---	Sheet: 1 of 1																																																						
<table border="1"> <tr> <th>Description</th> <th>Status</th> <th>Revision</th> <th>Drawn</th> <th>Checked</th> <th>Reviewed</th> <th>Authorised</th> <th>Issue Date</th> </tr> <tr> <td>PUBLISHED</td> <td>A1</td> <td>C03</td> <td>SD</td> <td>LM</td> <td>EM</td> <td>PG</td> <td>11/02/21</td> </tr> </table>		Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED	A1	C03	SD	LM	EM	PG	11/02/21	<table border="1"> <tr> <th colspan="2">Client</th> </tr> <tr> <td colspan="2" style="text-align: center;"> </td> </tr> </table>		Client																																					
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																																																		
PUBLISHED	A1	C03	SD	LM	EM	PG	11/02/21																																																		
Client																																																									
<table border="1"> <tr> <th>Description</th> <th>Status</th> <th>Revision</th> <th>Drawn</th> <th>Checked</th> <th>Reviewed</th> <th>Authorised</th> <th>Issue Date</th> </tr> <tr> <td>PUBLISHED</td> <td>A1</td> <td>C03</td> <td>SD</td> <td>LM</td> <td>EM</td> <td>PG</td> <td>11/02/21</td> </tr> </table>		Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED	A1	C03	SD	LM	EM	PG	11/02/21	<table border="1"> <tr> <th colspan="2">Client</th> </tr> <tr> <td colspan="2" style="text-align: center;"> </td> </tr> </table>		Client																																					
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																																																		
PUBLISHED	A1	C03	SD	LM	EM	PG	11/02/21																																																		
Client																																																									
<table border="1"> <tr> <th>Description</th> <th>Status</th> <th>Revision</th> <th>Drawn</th> <th>Checked</th> <th>Reviewed</th> <th>Authorised</th> <th>Issue Date</th> </tr> <tr> <td>PUBLISHED</td> <td>A1</td> <td>C02</td> <td>RS</td> <td>FH</td> <td>EM</td> <td>PG</td> <td>19/03/20</td> </tr> </table>		Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED	A1	C02	RS	FH	EM	PG	19/03/20	<table border="1"> <tr> <th colspan="2">Client</th> </tr> <tr> <td colspan="2" style="text-align: center;"> </td> </tr> </table>		Client																																					
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																																																		
PUBLISHED	A1	C02	RS	FH	EM	PG	19/03/20																																																		
Client																																																									





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100030649

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							
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							

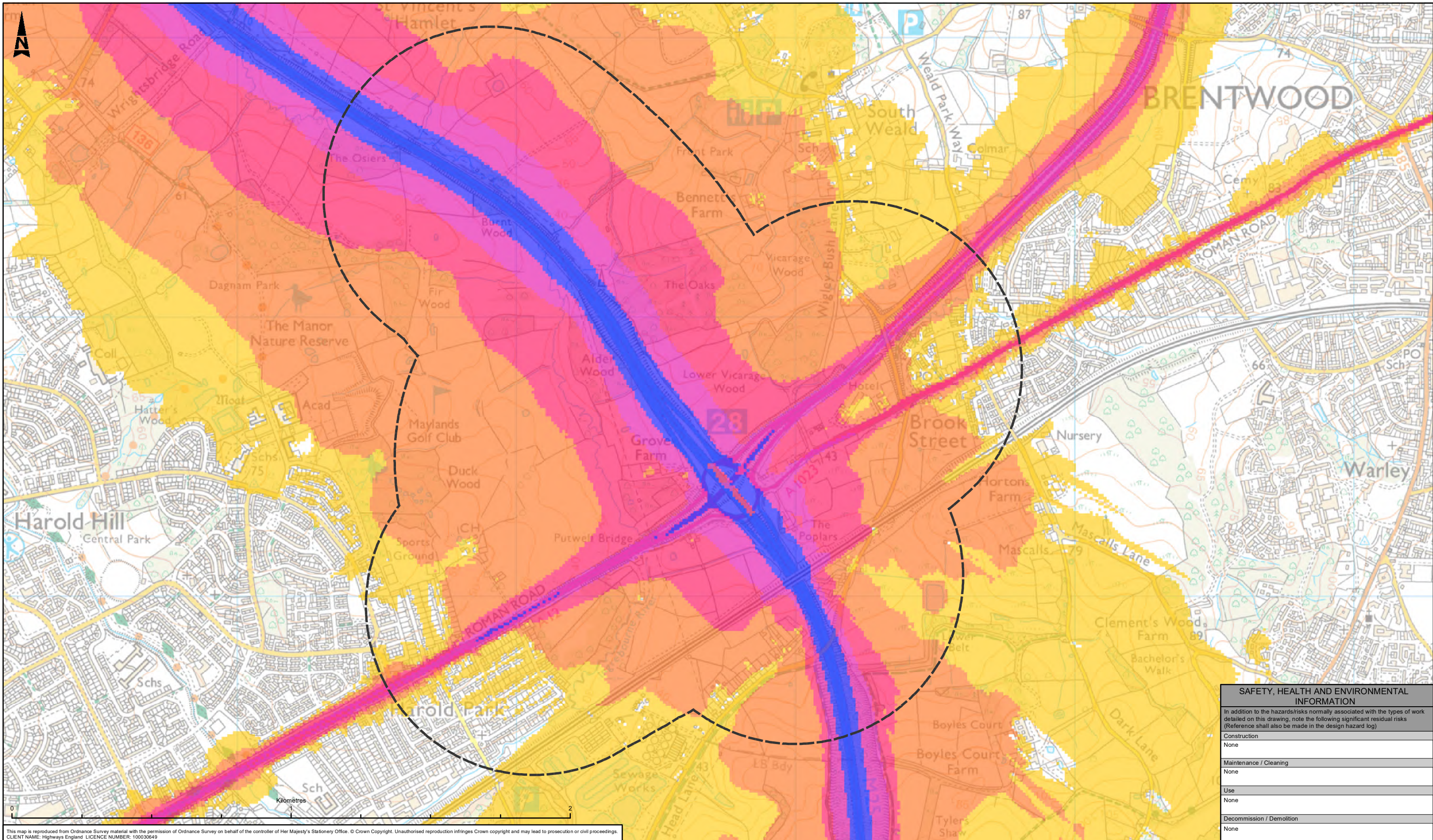
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1						18/03/20

**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  
 Copyright © Atkins Limited (2020) www.atkinsglobal.com

**highways england**

Project Title	M25 Junction 28						
Drawing Title	FIGURE 6.2 DEFRA NOISE MAPS (DAY)						
Drawing Number	Project	Originator	Volume				
	HE551519 - ATK - ENV	XX - GS - GI - 000002					
Original Size: A3	Scale: 1:12,500	Project Ref. No: --	Sheet: 1 of 1	Rev: C02			





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100030649

LEGEND	
	600m Study Area
<b>Road Noise Level <math>L_{night}</math> 8hr (23:00-07:00)</b>	
	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

**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

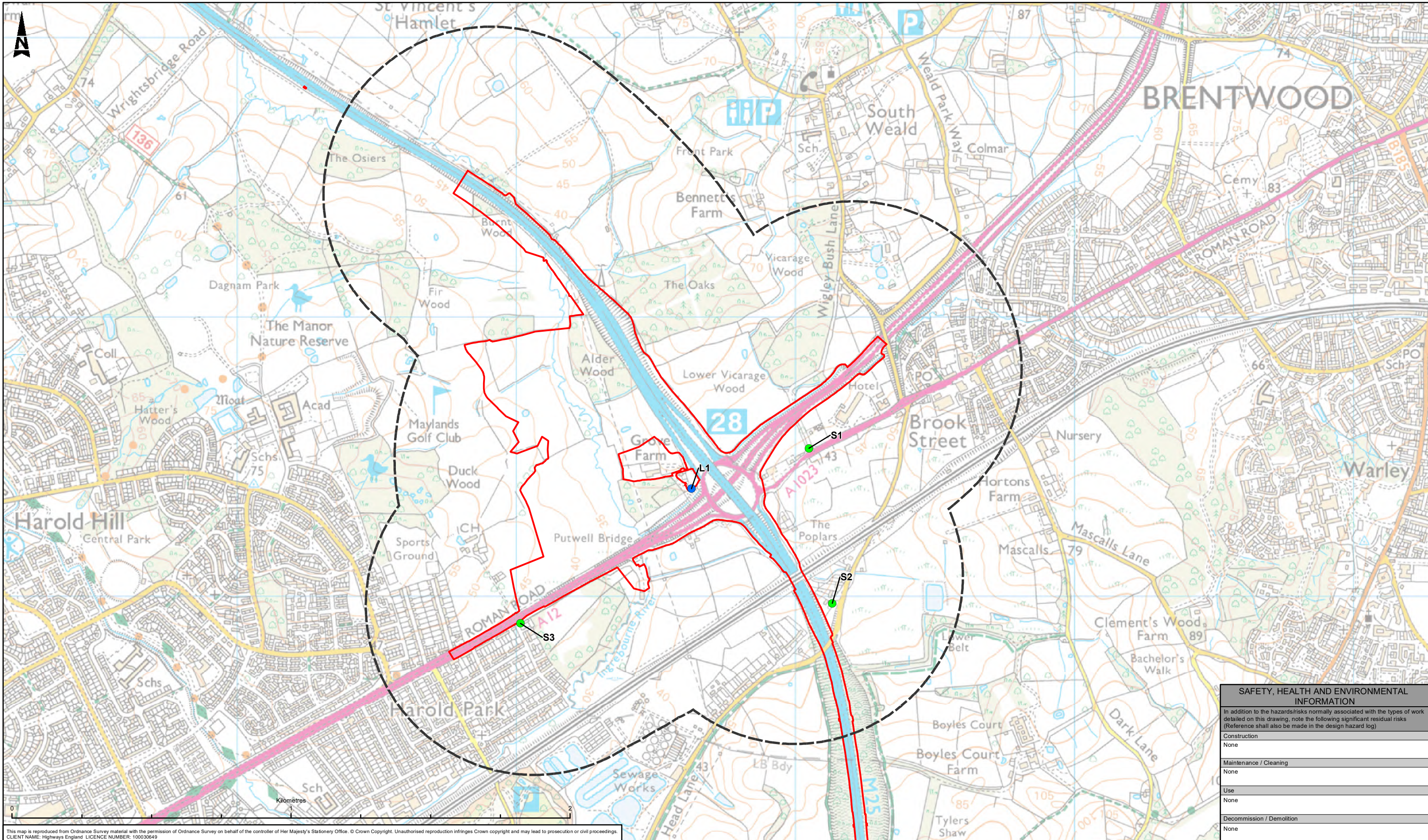
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1		RS	PH	EM	PG	19/03/20

**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  
 Copyright © Atkins Limited (2020) www.atkinsglobal.com

**highways england**

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





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100030649

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

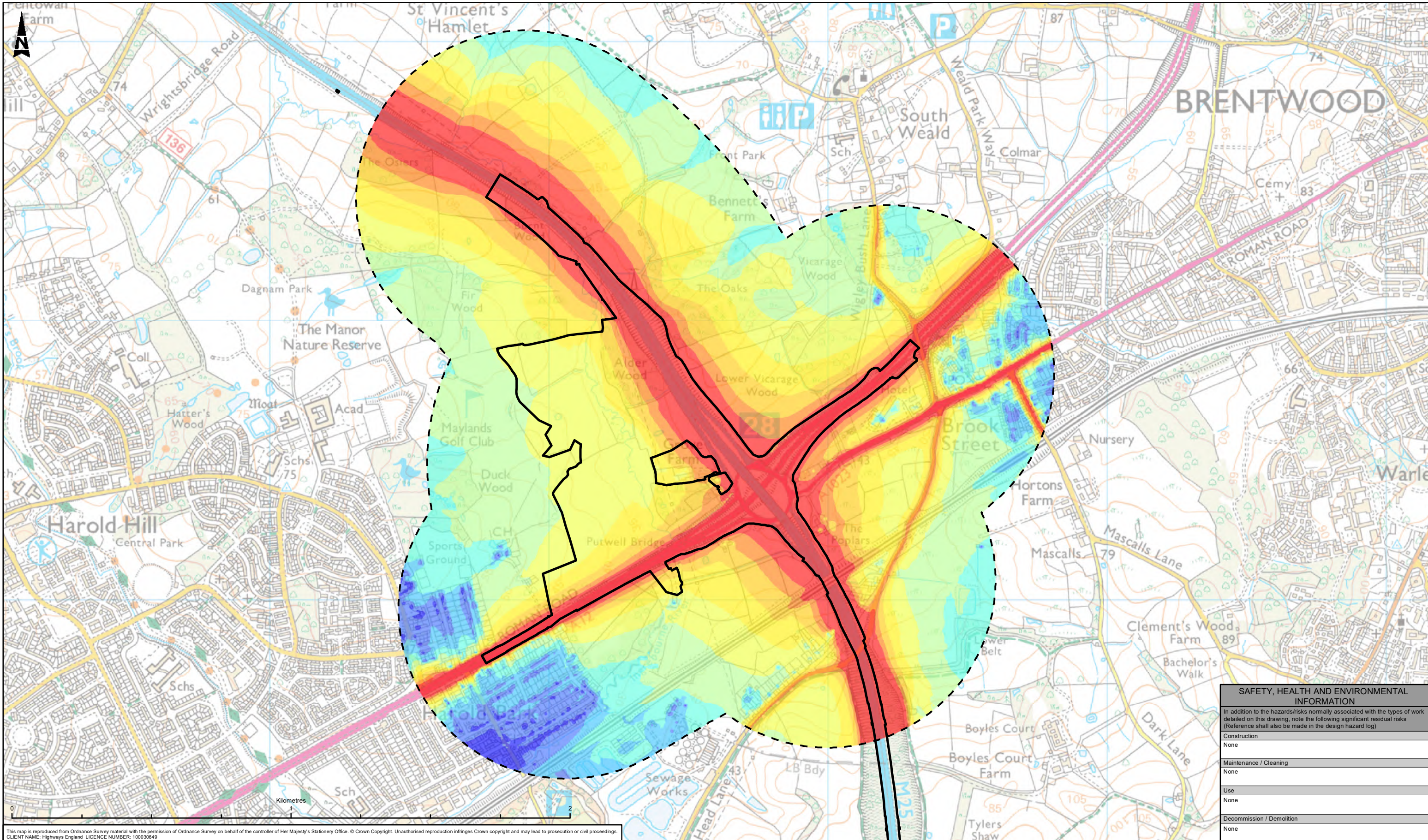
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use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

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1		RS	PH	EM	PG	18/03/20

<p><b>ATKINS</b></p> <p>Member of the SNC-Lavalin Group</p> <p>Tel: +44 (0) 1372 726140        Fax: +44 (0) 1372 740055        www.atkinsglobal.com</p> <p>Copyright © Atkins Limited (2020)</p>	<p><b>highways england</b></p>
--	--------------------------------

Project Title	M25 Junction 28
Drawing Title	FIGURE 6.4 NOISE SURVEY LOCATIONS
Drawing Number	HE551519 - ATK - ENV XX - GS - GI - 000004
Original Size	A3
Scale	1:12,500
Project Ref. No.	---
Sheet	1 of 1
Rev.	C02





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100030649

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 / 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

**ATKINS**  
Member of the SNC-Lavalin Group

Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

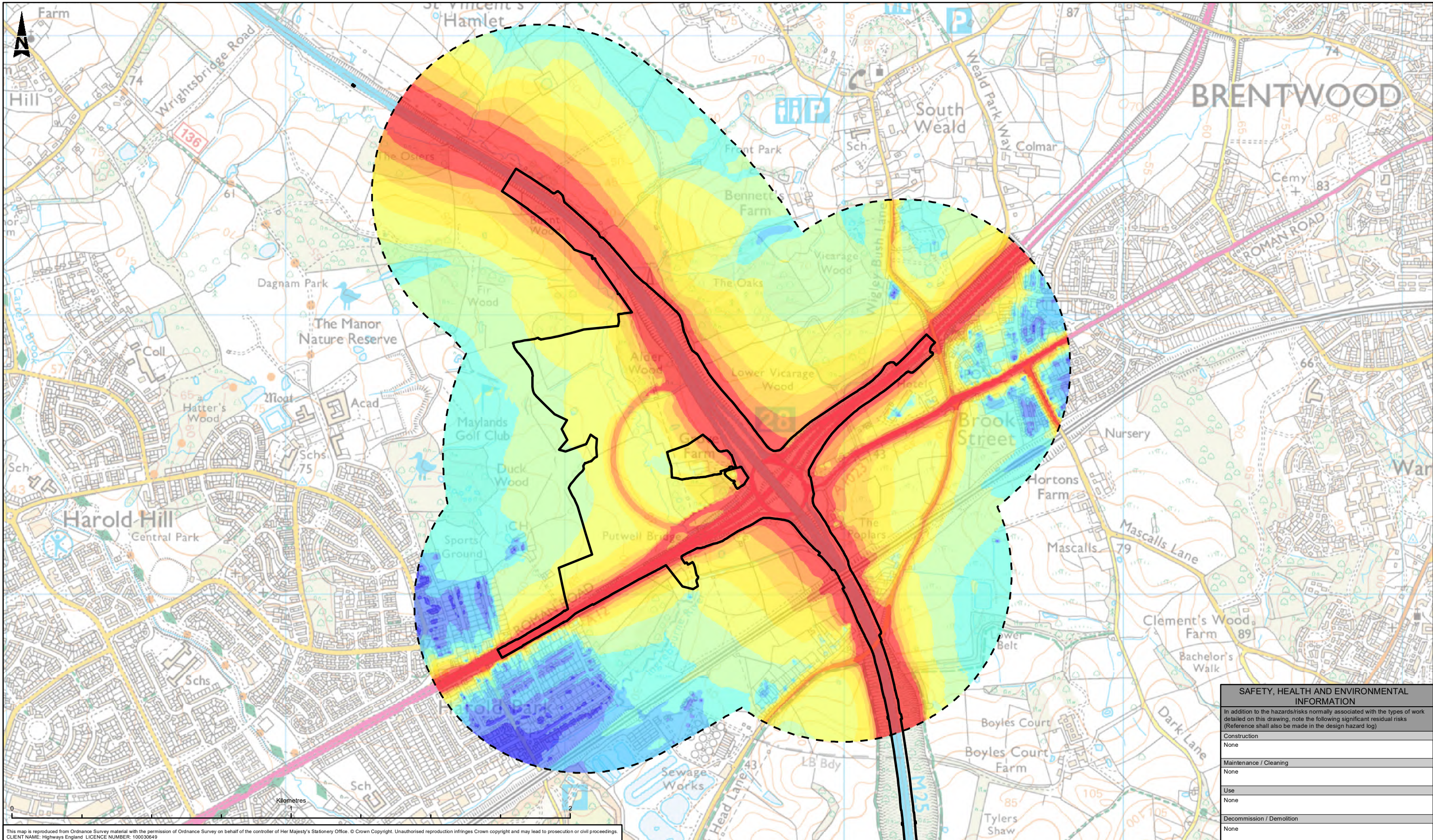
Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055  
www.atkinsglobal.com

Copyright © Atkins Limited (2020)

**highways england**

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





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100030649

LEGEND	
	DCO Scheme 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	C02	KV	PH	EM	PG	18/03/20

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C02	KV	PH	EM	PG	18/03/20

**PUBLISHED**

**ATKINS**  
 Member of the SNC-Lavalin Group

Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL

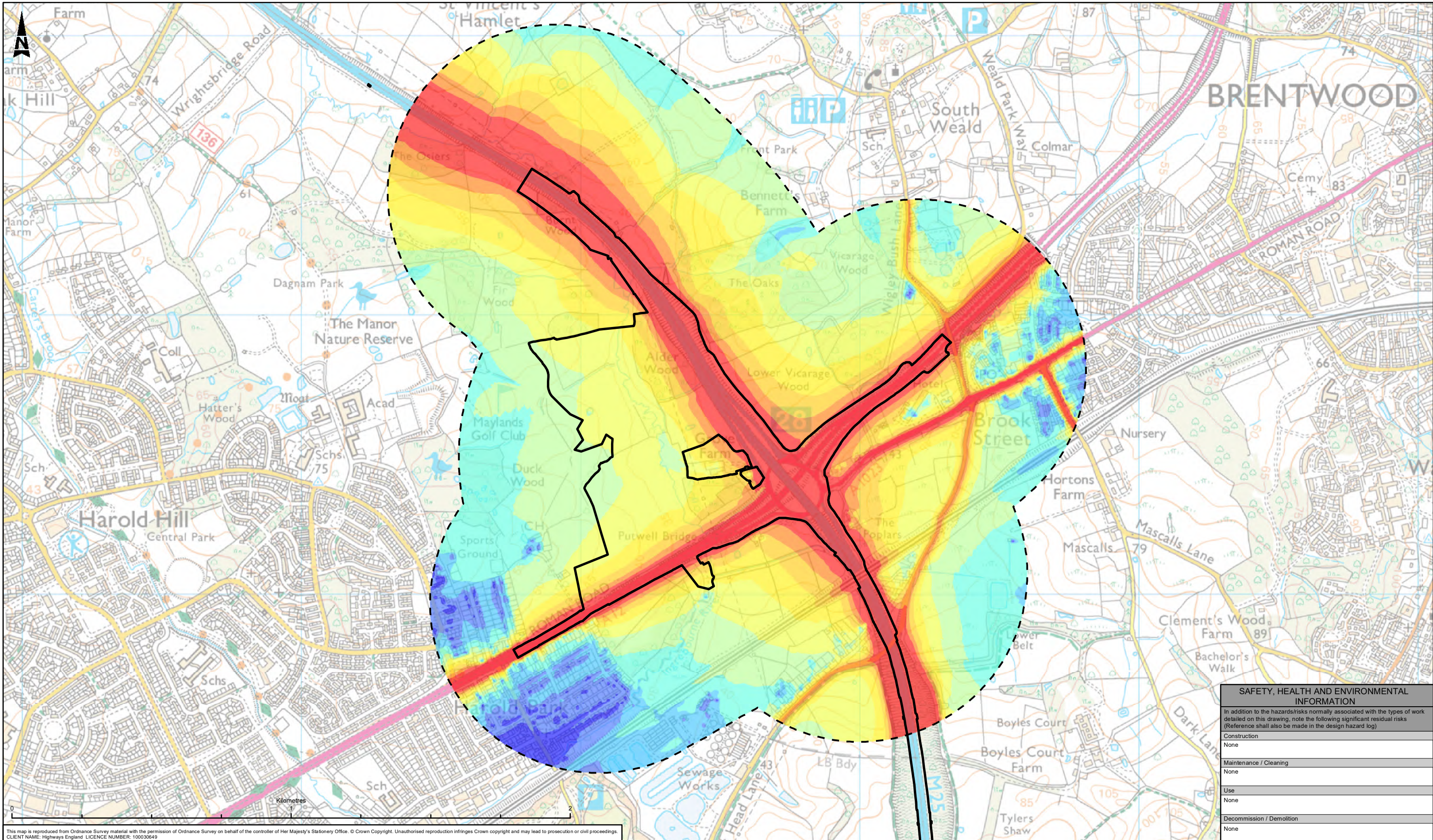
Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 www.atkinsglobal.com

Copyright © Atkins Limited (2020)

**highways england**

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 6.6 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: C02





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100030649

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	C02	KV	PH	EM	PG	18/03/20

**PUBLISHED**

**ATKINS**  
 Member of the SNC-Lavalin Group

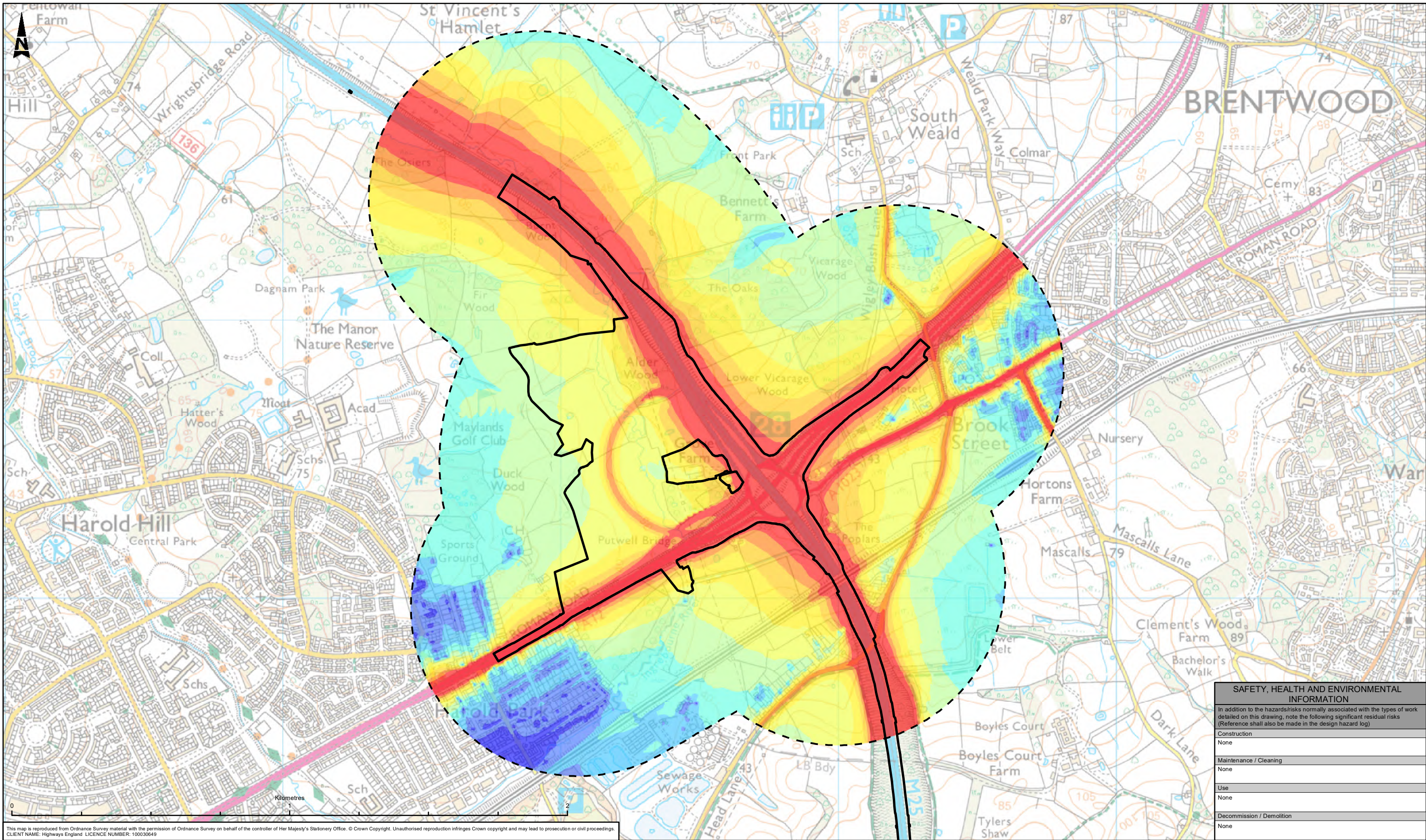
Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL  
 Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 Copyright © Atkins Limited (2020) www.atkinsglobal.com

**highways england**

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 6.7 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





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100030649

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 / Clearing	None
Use	None
Decommission / Demolition	None

LEGEND	
	DCO Scheme Boundary
	600m Study Area
	Noise Level dB $L_{A10,15hr}$ >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
	<math>< 50.0\text{ dB}</math>

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

**ATKINS**  
Member of the SNC-Lavalin Group

Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

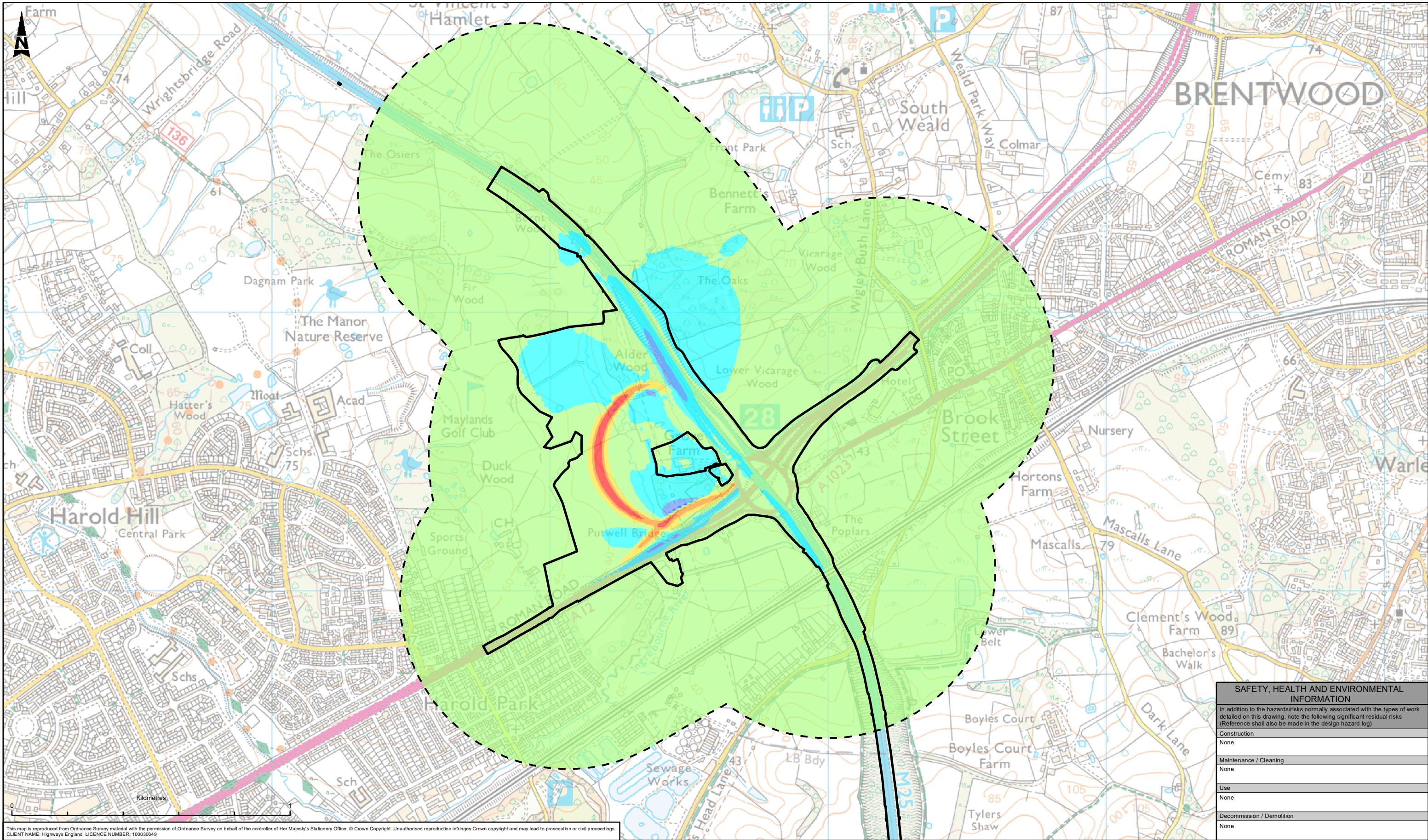
Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055  
www.atkinsglobal.com

Copyright © Atkins Limited (2020)

**highways england**

Project Title	M25 Junction 28
Drawing Title	FIGURE 6.8 PREDICTED DAYTIME ROAD TRAFFIC NOISE LEVELS, DS37
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000008 Volume: 1 of 1
Original Size: A3	Scale: 1:12,500 Project Ref. No.: -- Sheet: 1 of 1 Rev: C02





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100030649

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

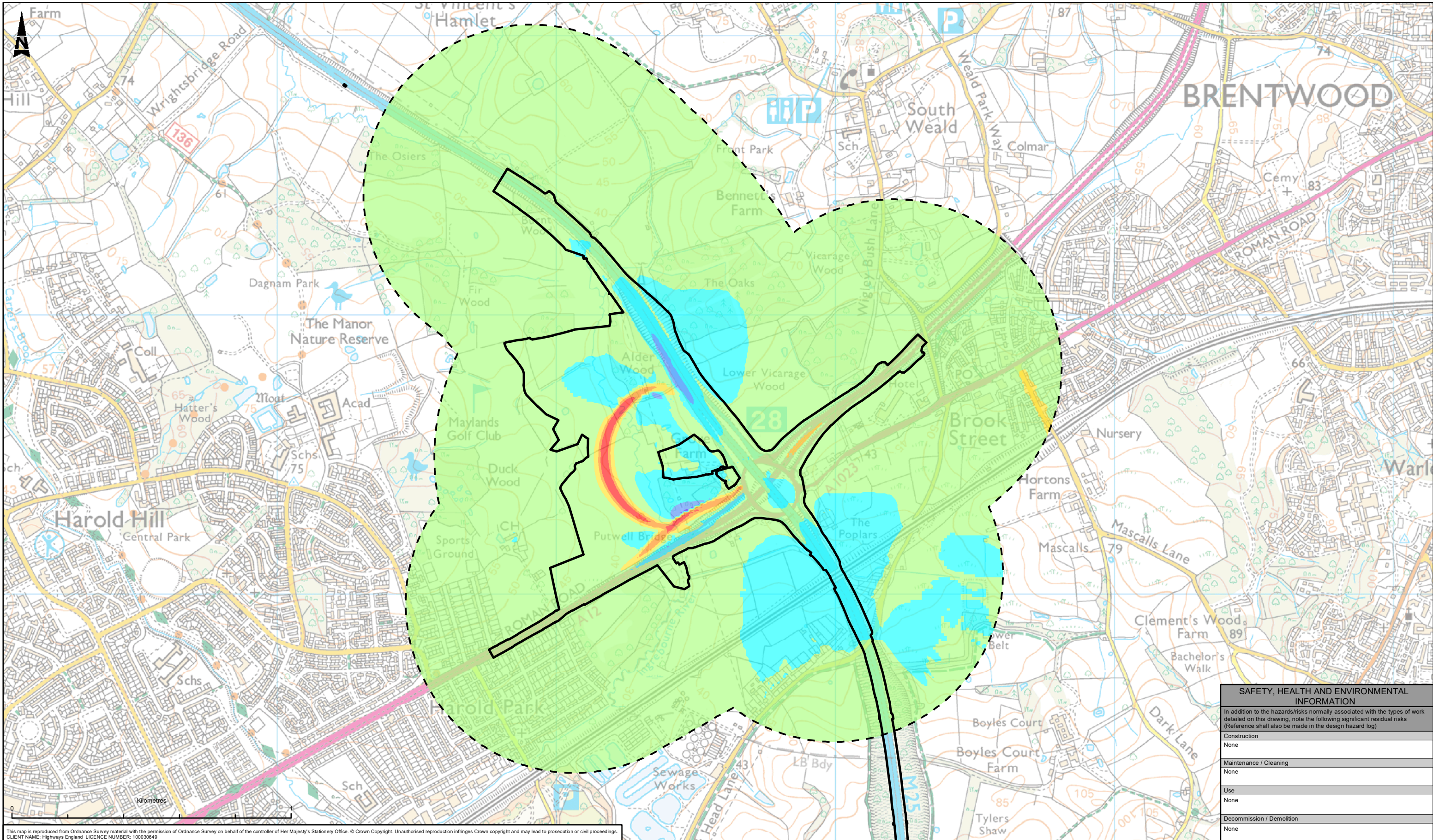
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C03	SD	LM	EM	PG	11/02/21
PUBLISHED	A1	C02	KV	FH	EM	PG	18/03/20

**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  
 Copyright © Atkins Limited (2021) www.atkinsglobal.com

**highways england**

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: C03





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100030649

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 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	C03	SD	LM	EM	PG	11/02/21
PUBLISHED	A1	C02	KV	FH	EM	PG	01/05/20

**PUBLISHED**

**ATKINS**  
Member of the SNC-Lavalin Group

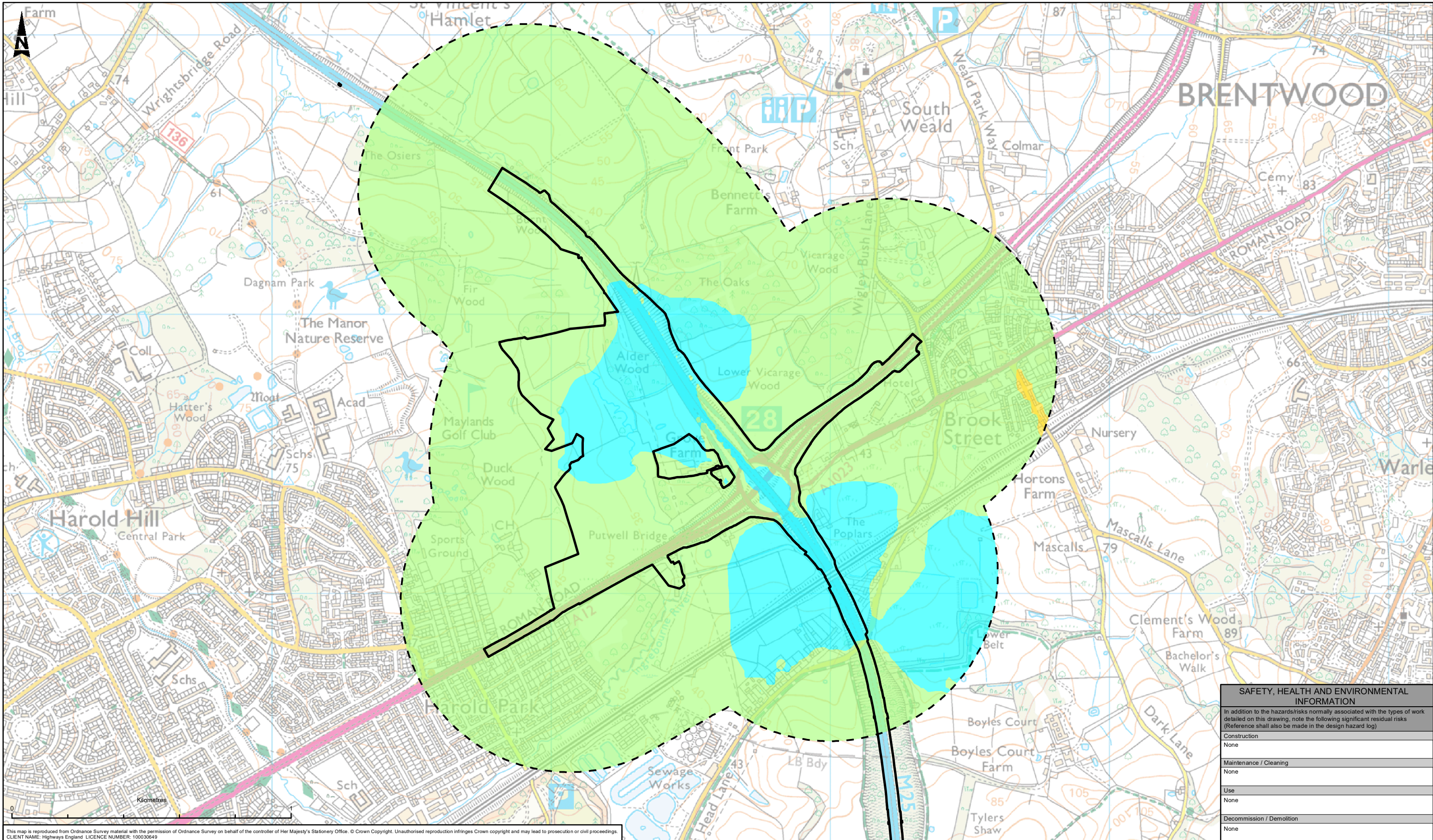
Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL  
Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055  
www.atkinsglobal.com

Copyright © Atkins Limited (2021)

**highways england**

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:	C03





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100030649

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

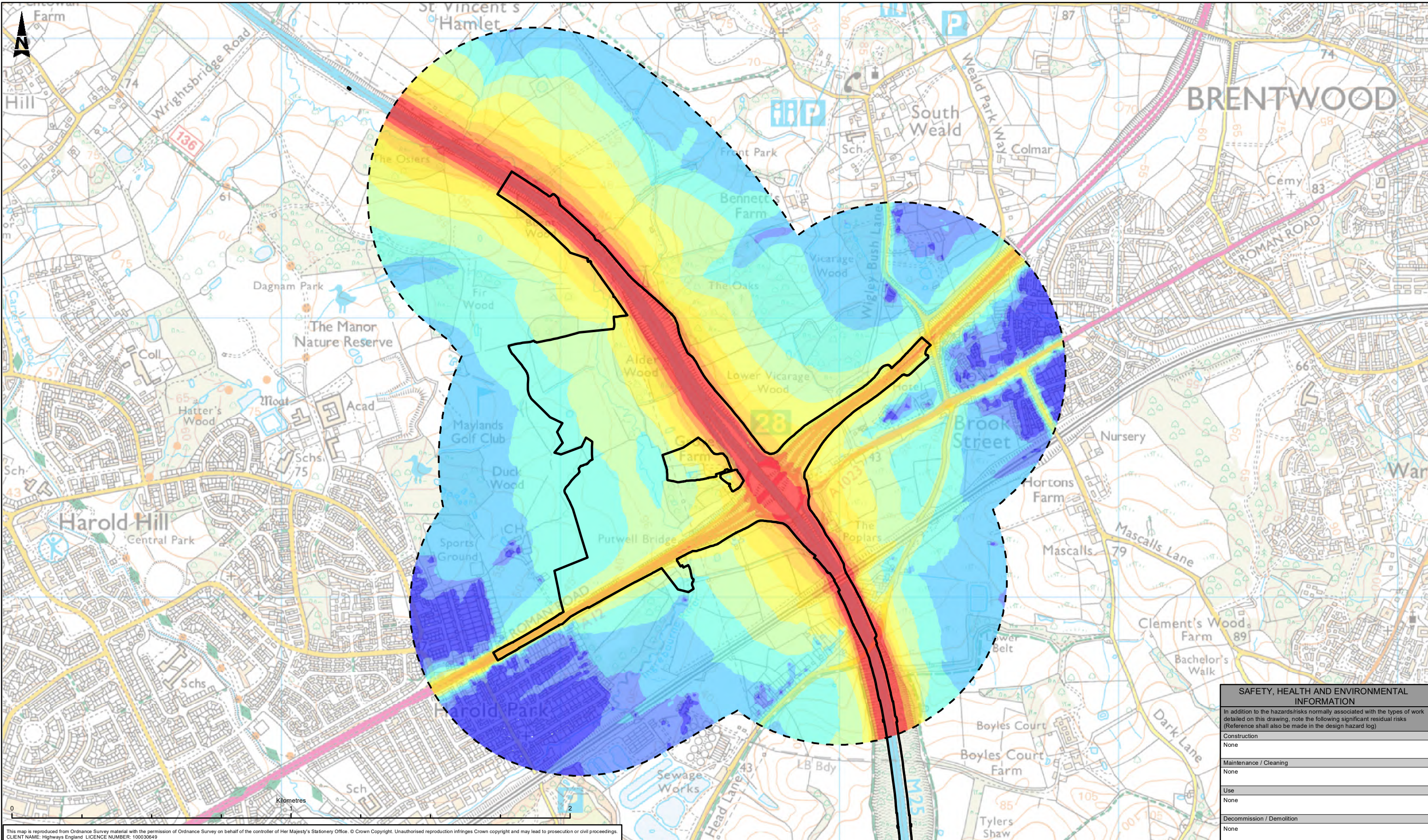
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C03	SD	LM	EM	PG	11/02/21
PUBLISHED	A1	C02	KV	FH	EM	PG	01/05/20

**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  
 Copyright © Atkins Limited (2021) www.atkinsglobal.com

**highways england**

Project Title	M25 Junction 28
Drawing Title	FIGURE 6.11 LONG TERM CHANGE WITHOUT THE SCHEME (DM37-DM22)
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000011 Volume: ---
Original Size: A3	Scale: 1:12,500 Project Ref. No: --- Sheet: 1 of 1 Rev: C03





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100030649

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
	<math>< 50.0\text{ dB}</math>

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C02	KV	PH	EM	PG	18/03/20

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C02	KV	PH	EM	PG	18/03/20

**ATKINS**  
Member of the SNC-Lavalin Group

Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

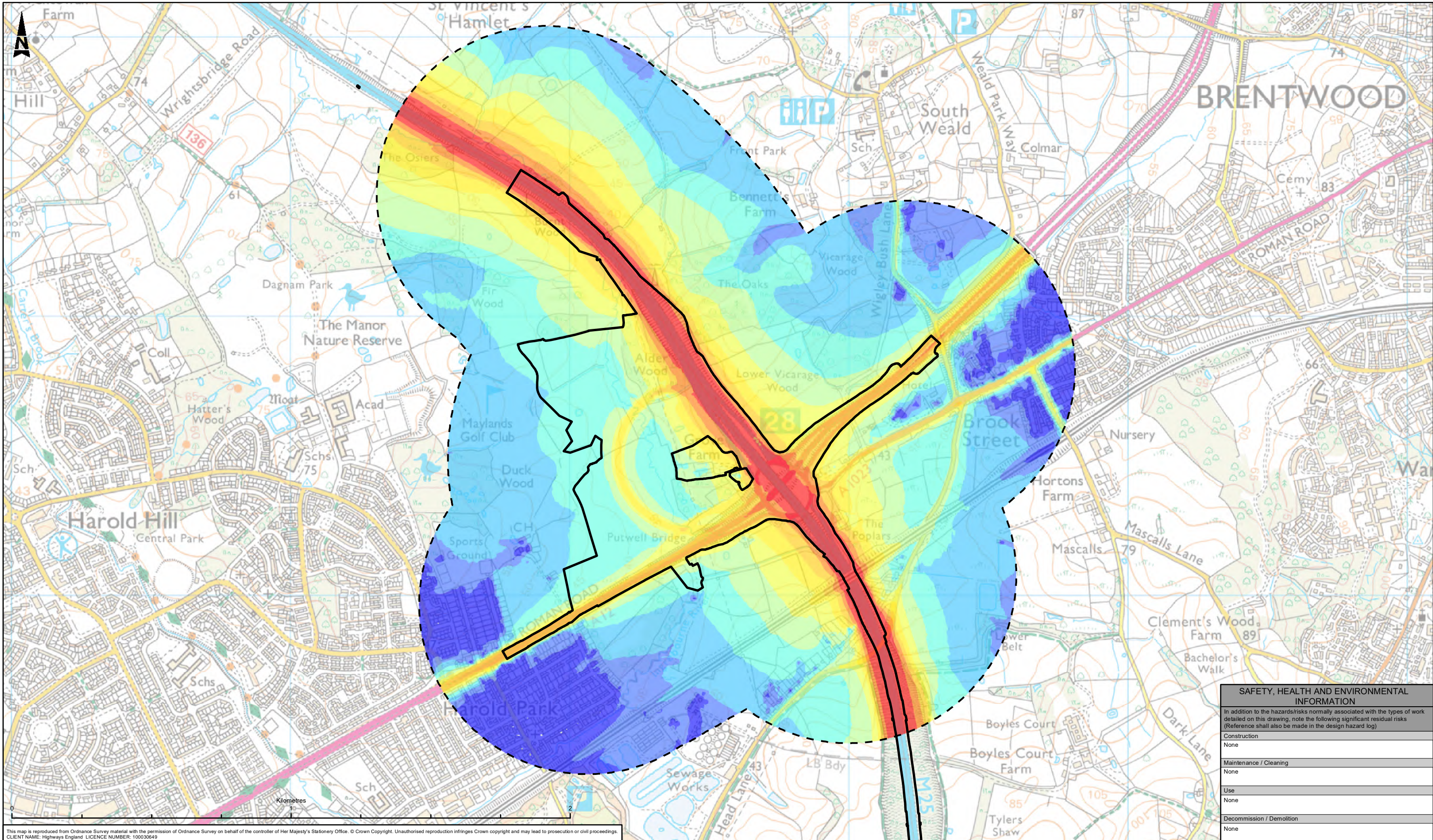
Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055  
www.atkinsglobal.com

Copyright © Atkins Limited (2020)

**highways england**

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





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100030649

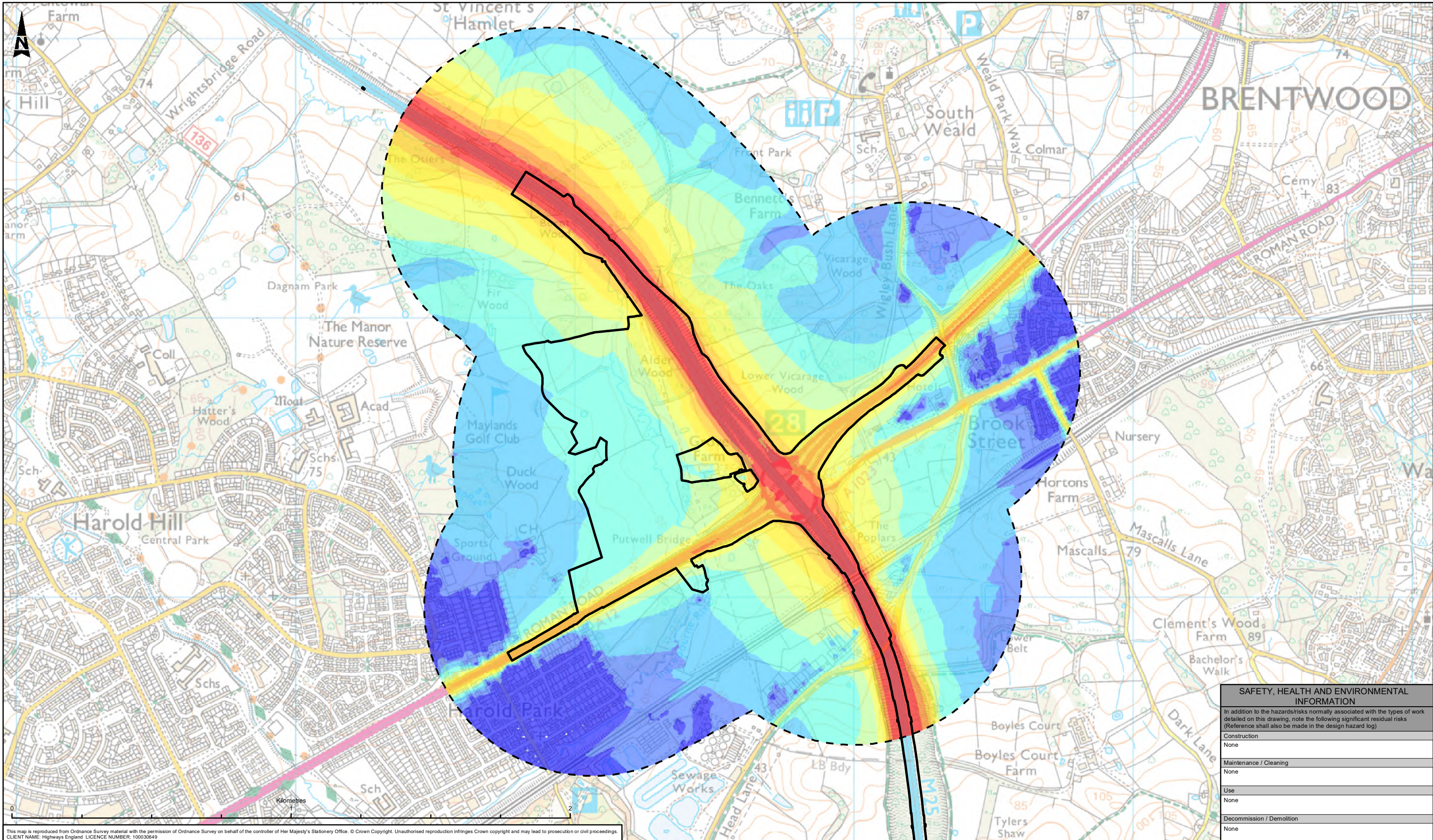
LEGEND	
	DCO Scheme Boundary
	600m Study Area
	Noise Level dB L <sub>A10,18hr</sub> >70.0 dB
	67.5 - 70.0 dB
	65.0 - 67.5 dB
	62.5 - 65.0 dB
	60.0 - 62.5 dB
	57.5 - 60.0 dB
	55.0 - 57.5 dB
	52.5 - 55.0 dB
	50.0 - 52.5 dB
	< 50.0 dB

Description							Drawing Suitability		Status	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	<b>PUBLISHED</b>		<b>A1</b>	
Description							<b>ATKINS</b>		Project Title	
Description							Member of the SNC-Lavalin Group		M25 Junction 28	
Description							Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL		Drawing Title	
Description							Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055		FIGURE 6.13 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DS22	
Description							Copyright © Atkins Limited (2020) www.atkinsglobal.com		Drawing Number	
Description							Client		Project	
Description									HE551519 - ATK - ENV	
Description							Original Size: A3		Scale: 1:12,500	
Description							Status: A1		Project Ref. No.: --	
Description							Revision: C02		Sheet: 1 of 1	
Description							Drawn: KV		Rev: C02	
Description							Checked: PH			
Description							Reviewed: EM			
Description							Authorised: PG			
Description							Issue Date: 18/03/20			

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	Originator	Volume
HE551519 - ATK - ENV	XX - GS - GI - 000013	
Location	Type	Role
A3	1:12,500	1 of 1
Scale	Project Ref. No.	Sheet
1:12,500	--	1 of 1
Original Size	Rev	
A3	C02	





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100030649

**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		>70.0 dB		57.5 - 60.0 dB
	600m Study Area		67.5 - 70.0 dB		55.0 - 57.5 dB
			65.0 - 67.5 dB		52.5 - 55.0 dB
			62.5 - 65.0 dB		50.0 - 52.5 dB
			60.0 - 62.5 dB		< 50.0 dB

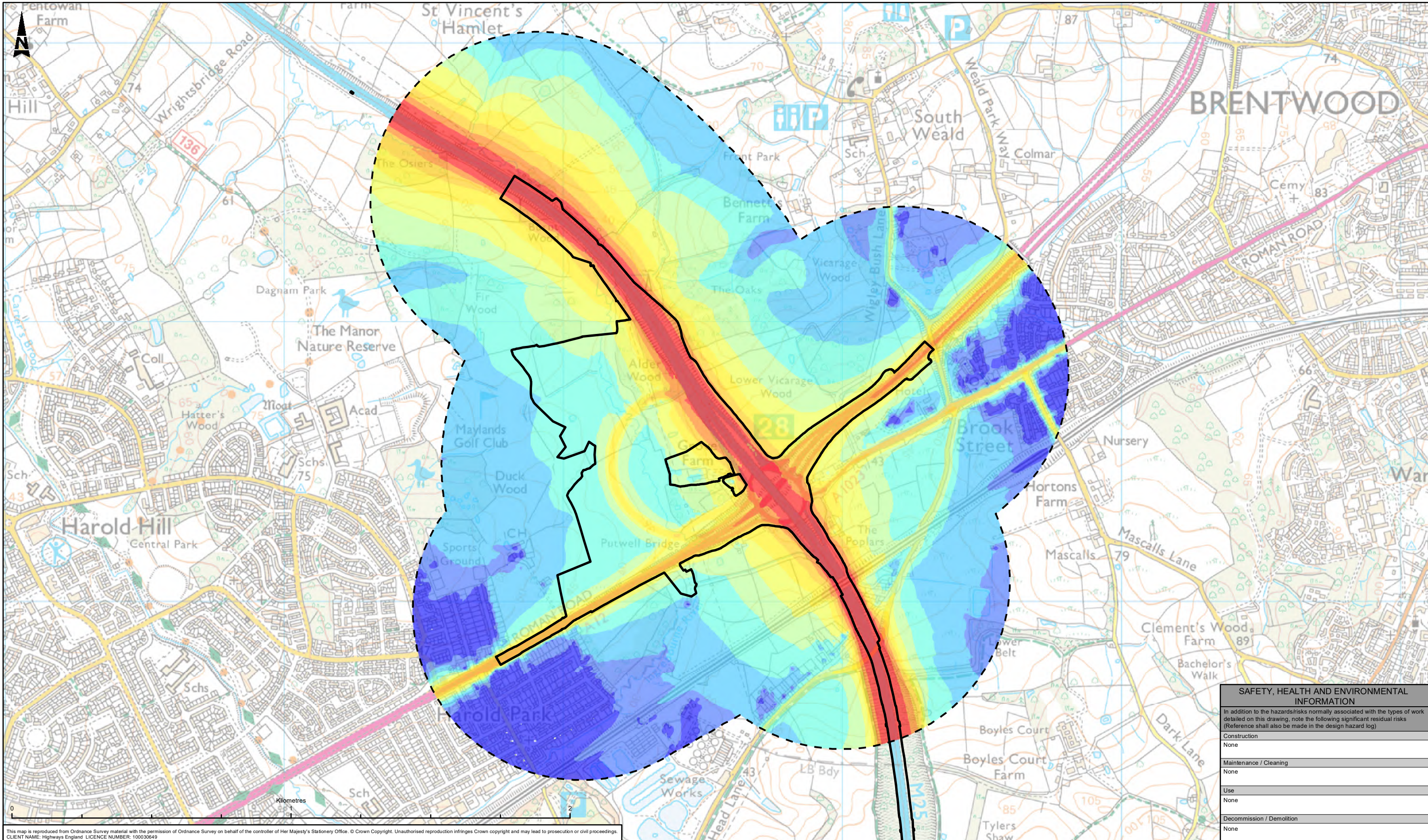
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1						18/03/20

**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  
 Copyright © Atkins Limited (2020) www.atkinsglobal.com

**highways england**

Project Title	M25 Junction 28
Drawing Title	FIGURE 6.14 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DM37
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000014 Volume: 1 of 1
Original Size: A3	Scale: 1:12,500 Project Ref. No.: -- Sheet: 1 of 1 Rev: C02





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100030649

LEGEND			
	DCO Scheme Boundary		
	600m Study Area		
	Noise Level dB L <sub>night</sub> >70.0		57.5 - 60.0
	67.5 - 70.0		55.0 - 57.5
	65.0 - 67.5		52.5 - 55.0
	62.5 - 65.0		50.0 - 52.5
	60.0 - 62.5		<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 / Clearing	None
Use	None
Decommission / Demolition	None

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

**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

Copyright © Atkins Limited (2020) www.atkinsglobal.com

**highways england**

Project Title	M25 Junction 28		
Drawing Title	FIGURE 6.15 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DS37		
Drawing Number	Project	Originator	Volume
	HE551519 - ATK - ENV	XX - GS - GI - 000015	
Original Size: A3	Scale: 1:12,500	Project Ref. No: --	Sheet: 1 of 1 Rev: C02



© Crown copyright (2020).

You may re-use this information (not including logos) free of charge in any format or medium, under the terms of the Open Government Licence. To view this licence:

visit [www.nationalarchives.gov.uk/doc/open-government-licence/](http://www.nationalarchives.gov.uk/doc/open-government-licence/)  
write to the Information Policy Team, **The National Archives, Kew, London TW9 4DU**,  
or email [psi@nationalarchives.gsi.gov.uk](mailto:psi@nationalarchives.gsi.gov.uk).

Printed on paper from well-managed forests and other controlled sources.

Registered office Bridge House, 1 Walnut Tree Close, Guildford GU1 4LZ  
Highways England Company Limited registered in England and Wales number 09346363