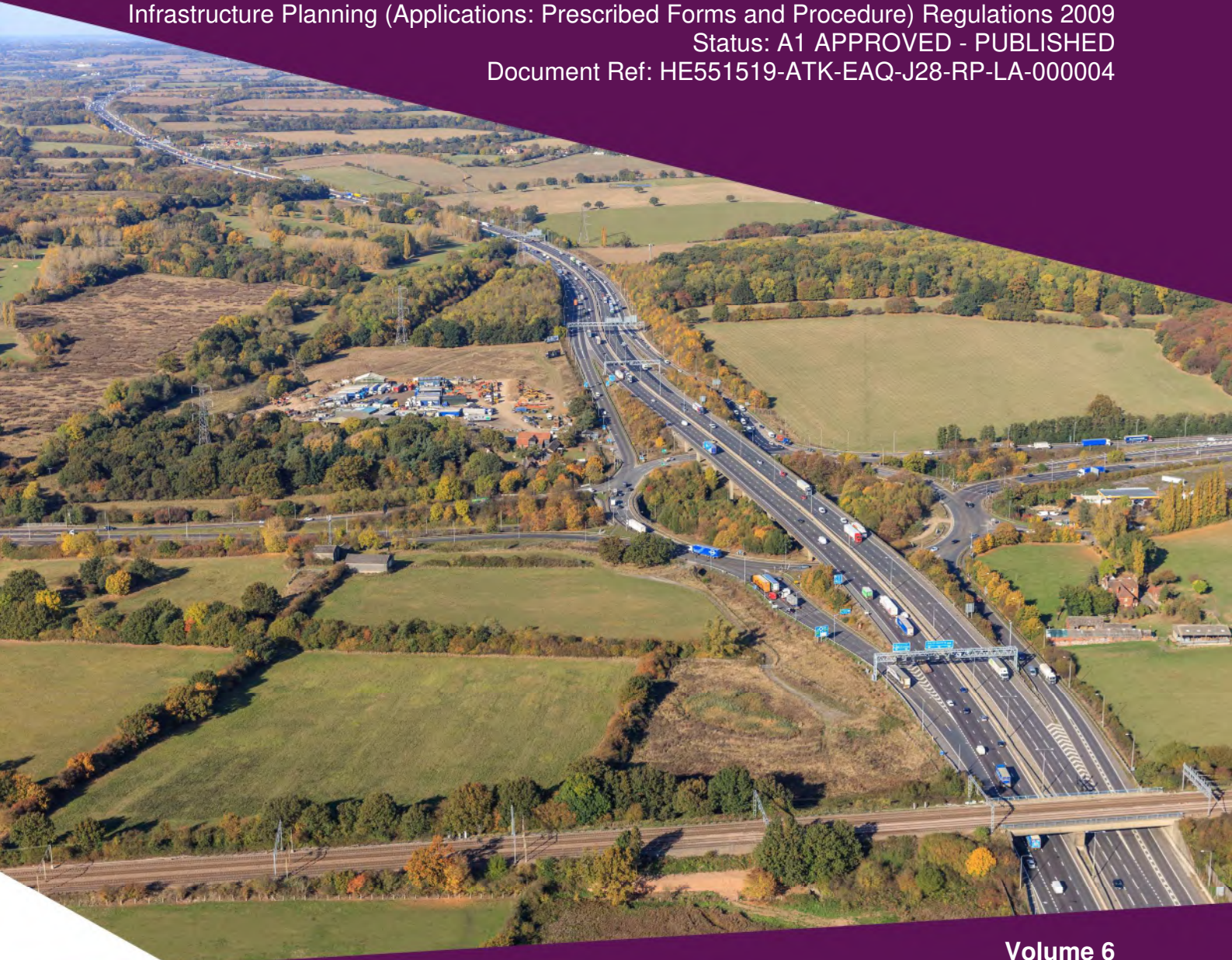


M25 junction 28 improvement scheme TR010029

6.2 Environmental Statement Chapter 5: Air quality figures

Regulation 5(2)(a)
Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009
Status: A1 APPROVED - PUBLISHED
Document Ref: HE551519-ATK-EAQ-J28-RP-LA-000004



Infrastructure Planning

Planning Act 2008

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

M25 junction 28 improvement scheme Development Consent Order 202[x]

6.2 ENVIRONMENTAL STATEMENT CHAPTER 5: AIR QUALITY FIGURES

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

Version	Date	Status of Version
2	4 February 2021	Deadline 2
1	May 2020	Application issue

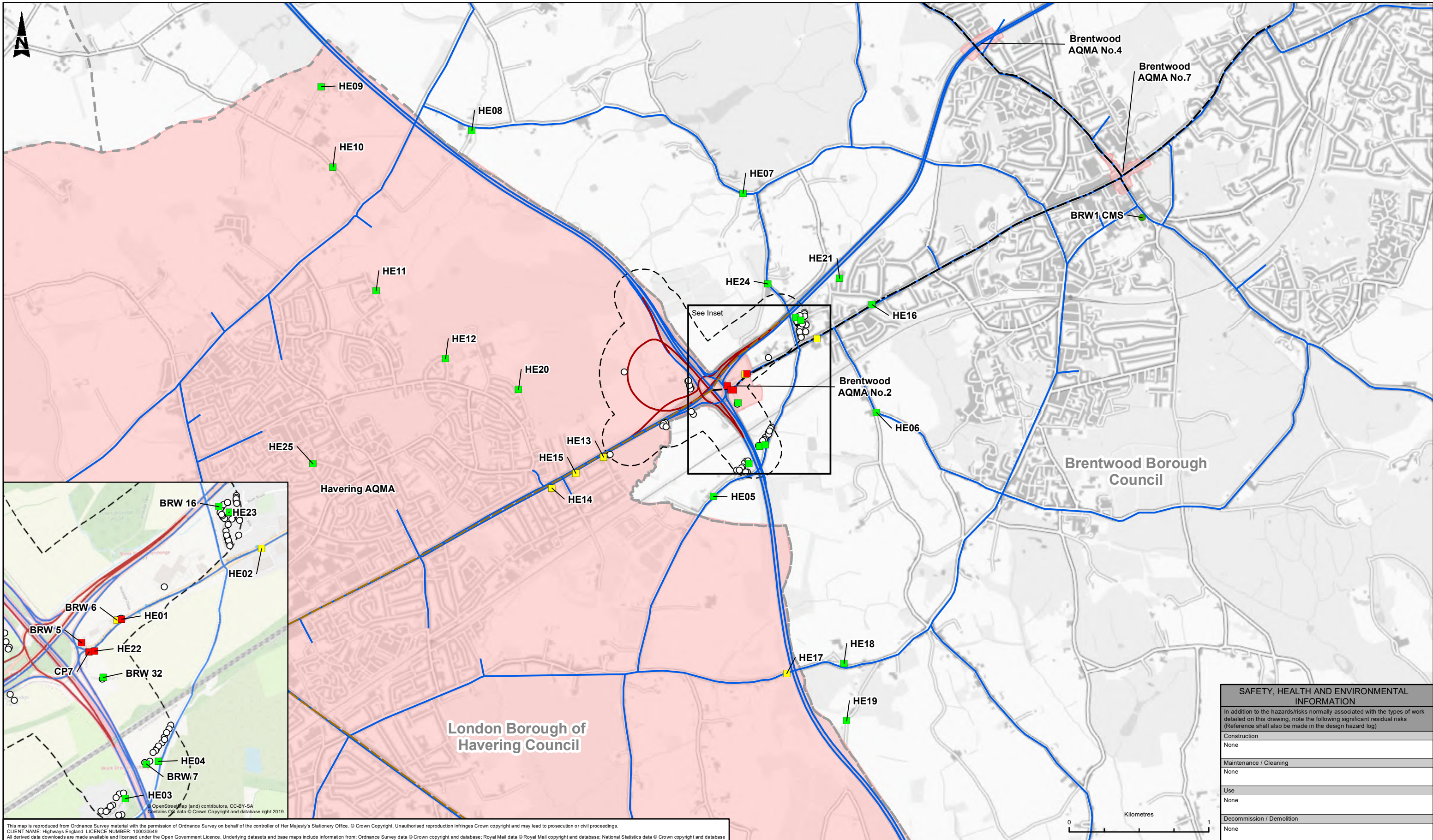
Table of contents

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

1. Schedule of figures included in this application document

1.1.1 Three new figures (Figure 5.9 to Figure 5.11) have been submitted at Deadline 2.

Document title	Document number	Revision
Figure 5.1 Air Quality Constraints	TR010029/APP/6.2	0
Figure 5.2 Study Area for Construction Dust Assessment	TR010029/APP/6.2	0
Figure 5.3 Local Affected Road Network	TR010029/APP/6.2	0
Figure 5.4 Affected Road Network – Changes in AADT	TR010029/APP/6.2	0
Figure 5.5 Affected Road Network - Affected Road Network - Changes in Daily Average Speed	TR010029/APP/6.2	0
Figure 5.6 Affected Road Network – Changes in AM Peak Speed	TR010029/APP/6.2	0
Figure 5.7 Affected Road Network – Changes in PM Peak Speed	TR010029/APP/6.2	0
Figure 5.8 Air Quality Receptors	TR010029/APP/6.2	0
Figure 5.9 Revised Study Area for Construction Dust Assessment	TR010029/APP/6.2	0
Figure 5.10 Revised Air Quality Receptors	TR010029/APP/6.2	0
Figure 5.11 Developments with Potential for Cumulative Dust Impact	TR010029/APP/6.2	0



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

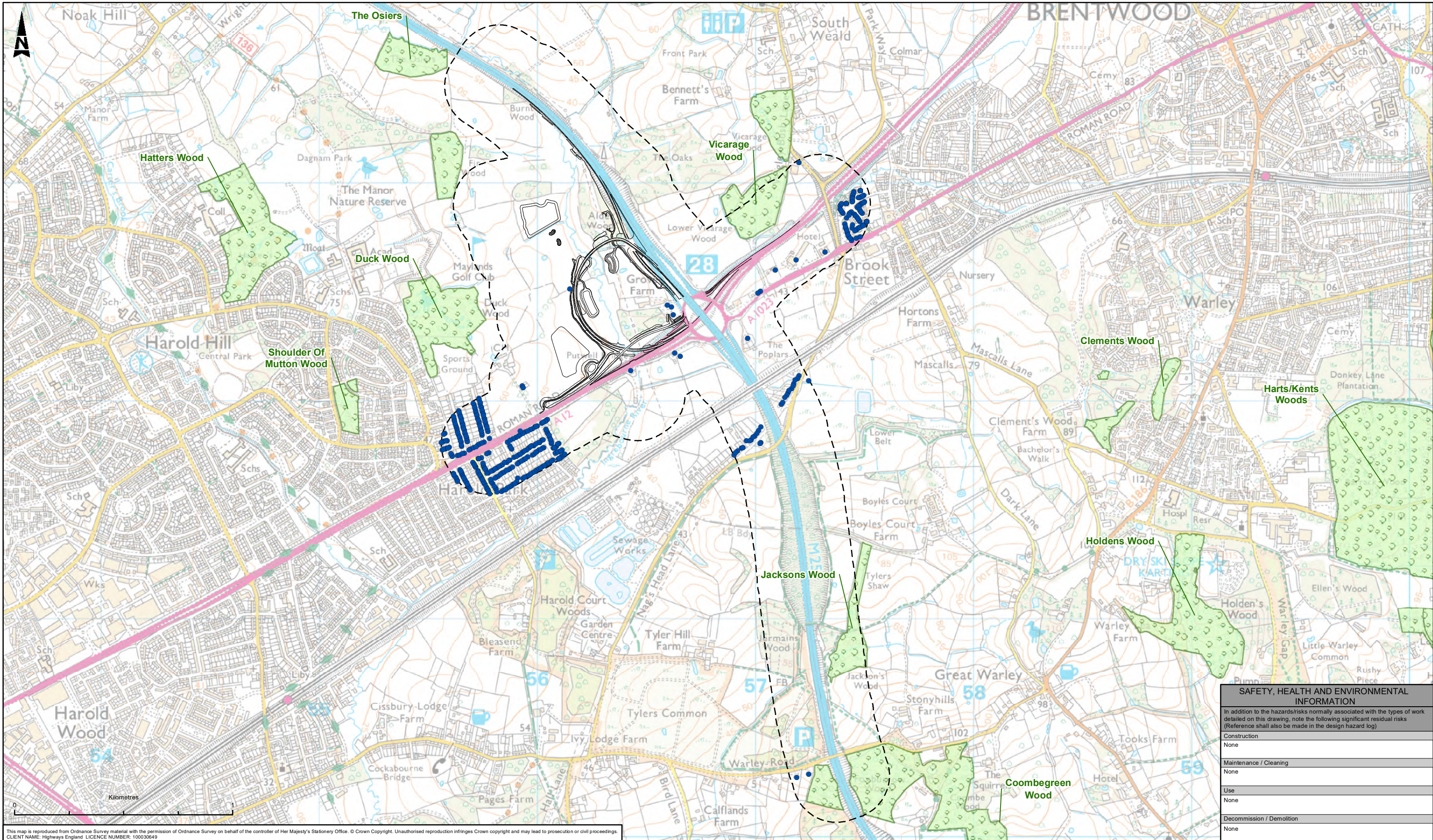
LEGEND		Modelled Road Network		Diffusion Tube Monitoring Sites (2015)		Continuous Monitoring Sites (2015)	
	Local Authority Boundary		Affected Road Network		No data		No data
	Air Quality Management Area		Unaffected Road Network	< 36 µg/m³ symbol"/>	< 36 µg/m³	< 36 µg/m³ symbol"/>	< 36 µg/m³
	Sensitive Human Health Receptors		200m study area around Affected Road Network		36 to 40 µg/m³		36 to 40 µg/m³
DEFRA PCM Roadside NO₂ Concentrations (2015)					> 40 µg/m³		> 40 µg/m³
< 40 µg/m³ symbol"/>	< 40 µg/m³						
	> 40 µg/m³						

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1						

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Project Title	M25 Junction 28		
Drawing Title	FIGURE 5.1 AIR QUALITY CONSTRAINTS		
Drawing Number	Project	Originator	Volume
	HE551519 - ATK - EAQ	XX - GS - GI - 000001	
Original Size: A3	Scale: 1:25,000	Project Ref. No: --	Sheet: 1 of 1 Rev: C03



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LEGEND

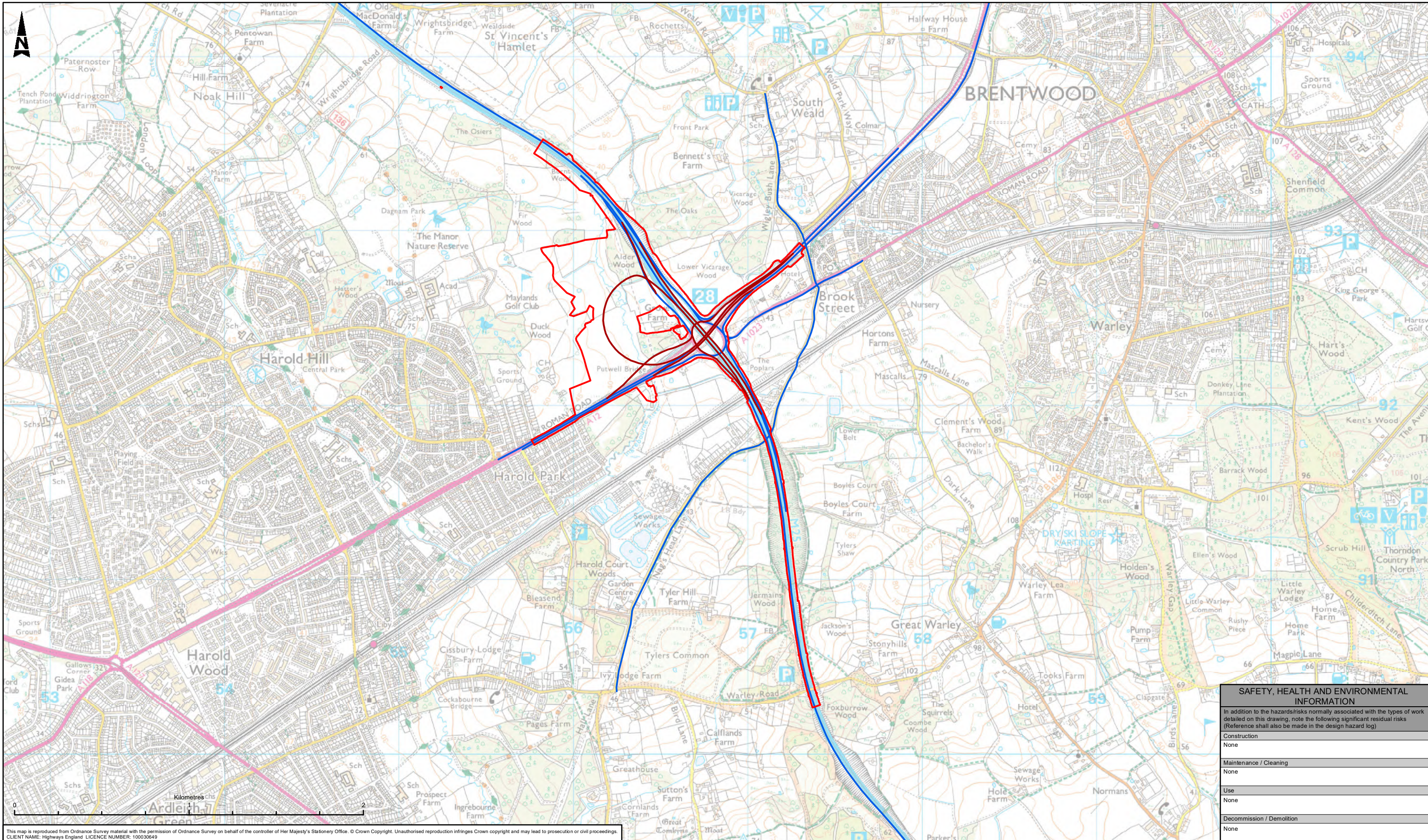
- Proposed Alignment
- Ancient Woodland
- Area Potentially Affected by Construction Dust
- Receptors Sensitive to Construction Dust

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

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C03	SD	VS	EM	PG	30/04/20

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----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------

Project Title	M25 Junction 28
Drawing Title	FIGURE 5.2 STUDY AREA FOR CONSTRUCTION DUST ASSESSMENT
Drawing Number	HE551519 - ATK - EAQ XX - GS - GI - 000002
Original Size	A3
Scale	1:16,000
Project Ref. No.	---
Sheet	1 of 1
Rev.	C03



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

LEGEND
 DCO Boundary
 Local Affected Road Network
 Local Unaffected Road Network

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

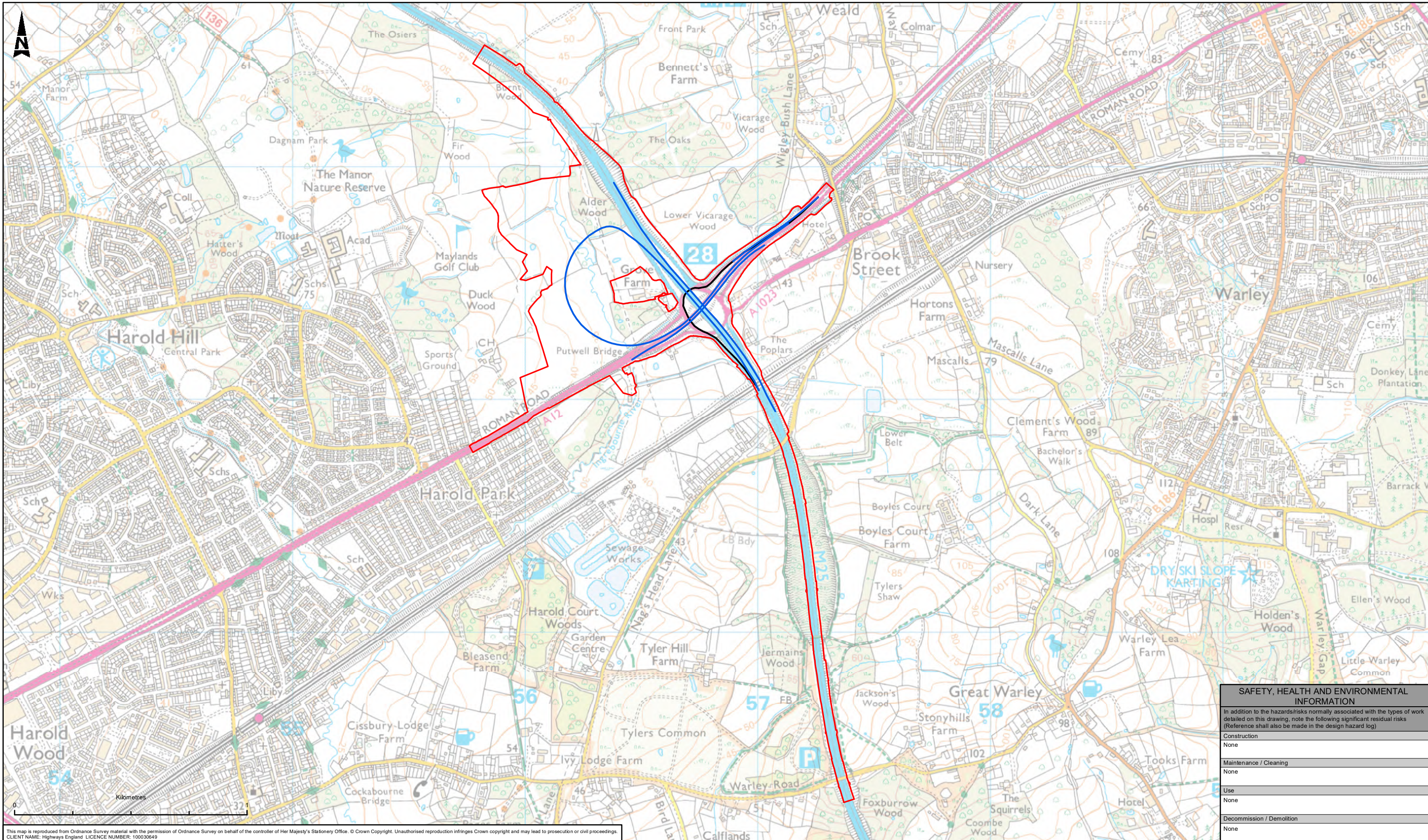
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Project Title	M25 Junction 28
Drawing Title	FIGURE 5.3 LOCAL AFFECTED ROAD NETWORK
Drawing Number	Project: HE551519 - ATK - EAQ Originator: XX - GS - GI - 000003 Volume: 1 of 1
Original Size: A3	Scale: 1:20,000 Project Ref. No.: -- Sheet: 1 of 1 Rev: C01



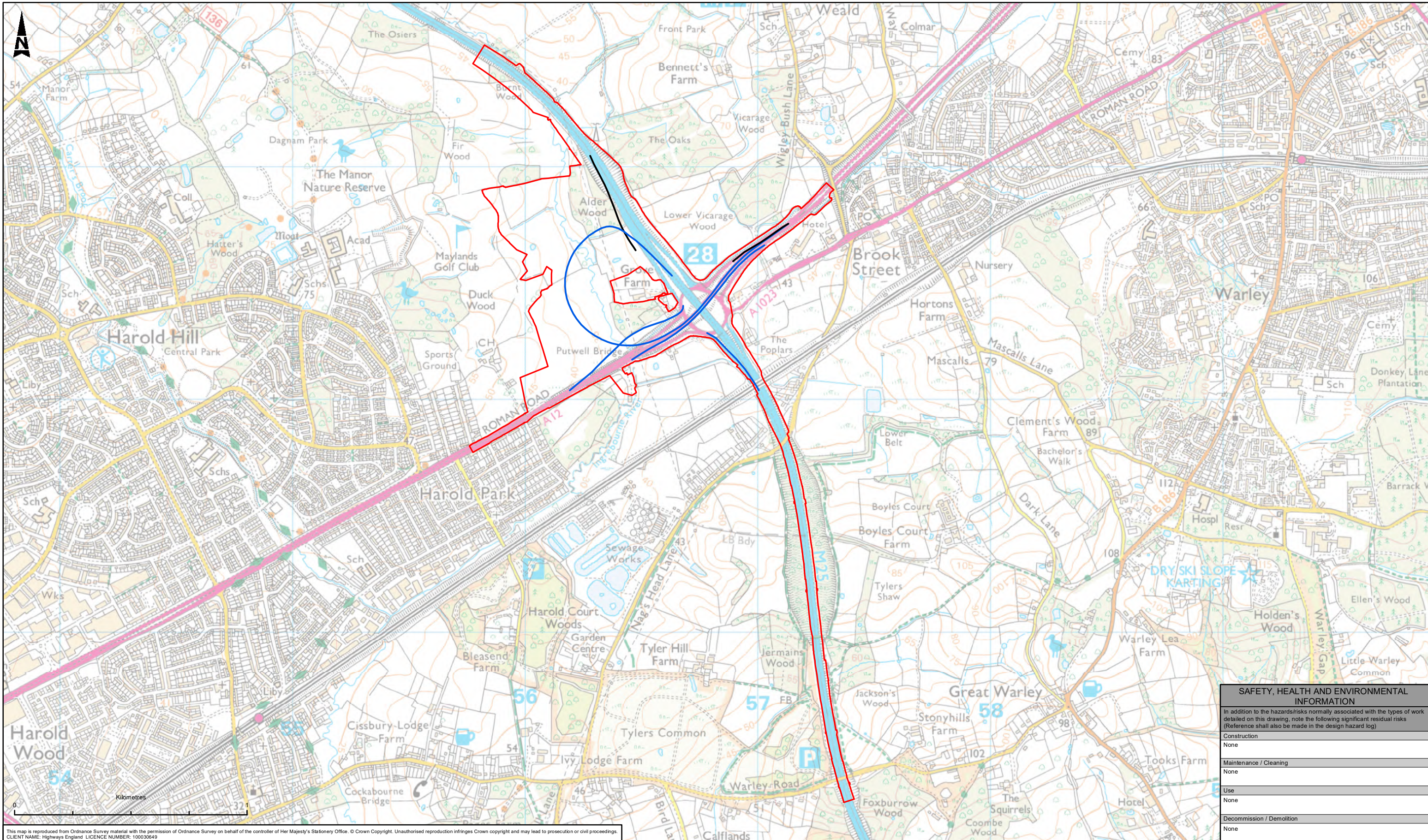
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND							
DCO Boundary							
AADT Affected Road Network - Change >1000 Affected Road Network - Change <-1000							
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
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Project Title	M25 Junction 28		
Drawing Title	FIGURE 5.4 AFFECTED ROAD NETWORK - CHANGES IN AADT		
Drawing Number	Project	Originator	Volume
	HE551519 - ATK - EAQ	XX - GS - GI - 000004	
Original Size: A3	Scale: 1:15,000	Project Ref. No: --	Sheet: 1 of 1 Rev: C01



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

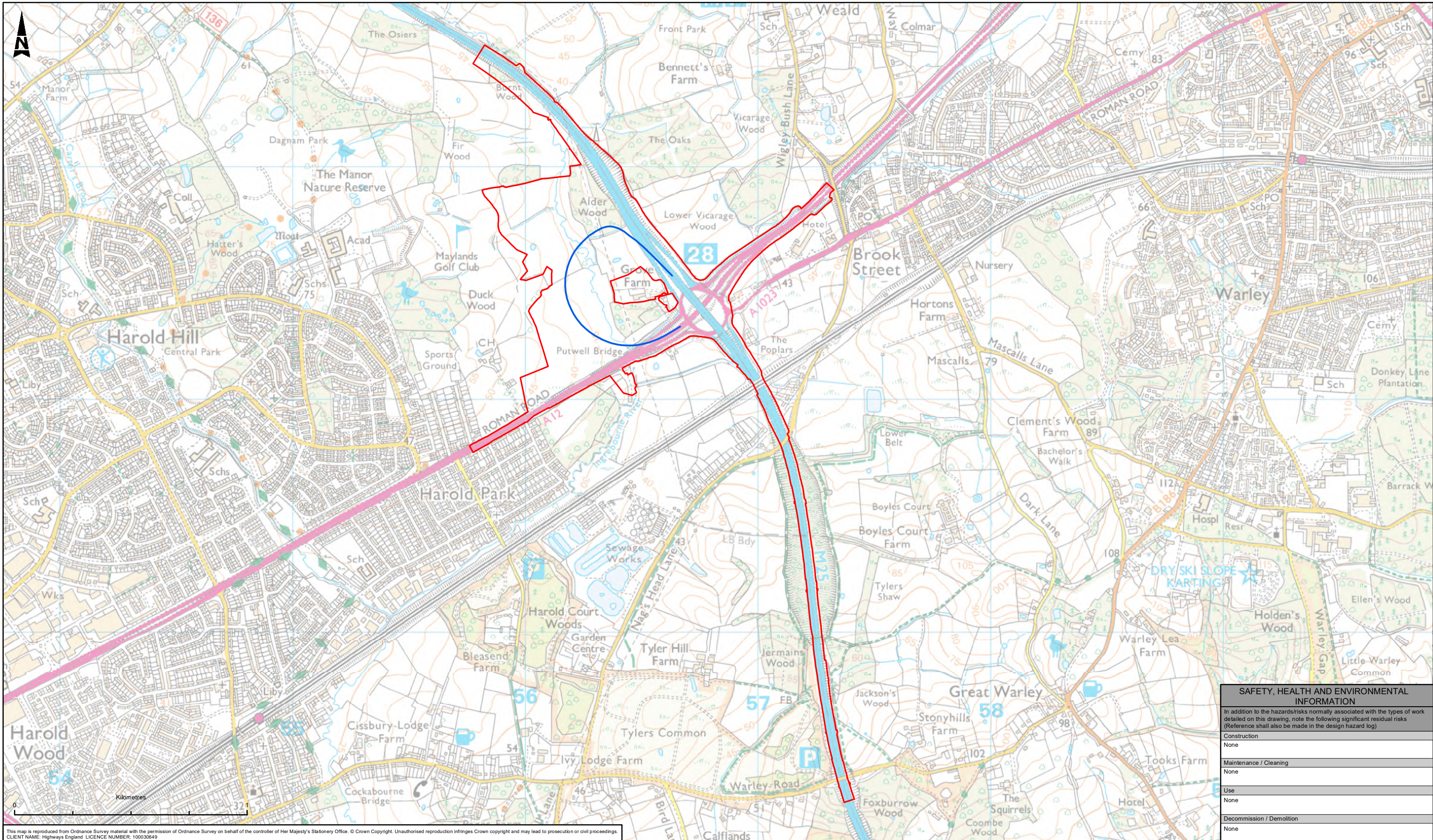
LEGEND							
DCO Boundary							
Daily Average Speed Affected Road Network – Change >10km/hr Affected Road Network - Change <=10km/hr							
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Project Title	M25 Junction 28				
Drawing Title	FIGURE 5.5 AFFECTED ROAD NETWORK - CHANGES IN DAILY AVERAGE SPEED				
Drawing Number	Project	Originator	Volume		
	HE551519 - ATK - EAQ	XX - GS - GI - 000005			
Original Size: A3	Scale: 1:15,000	Project Ref. No: --	Sheet: 1 of 1	Rev: C01	



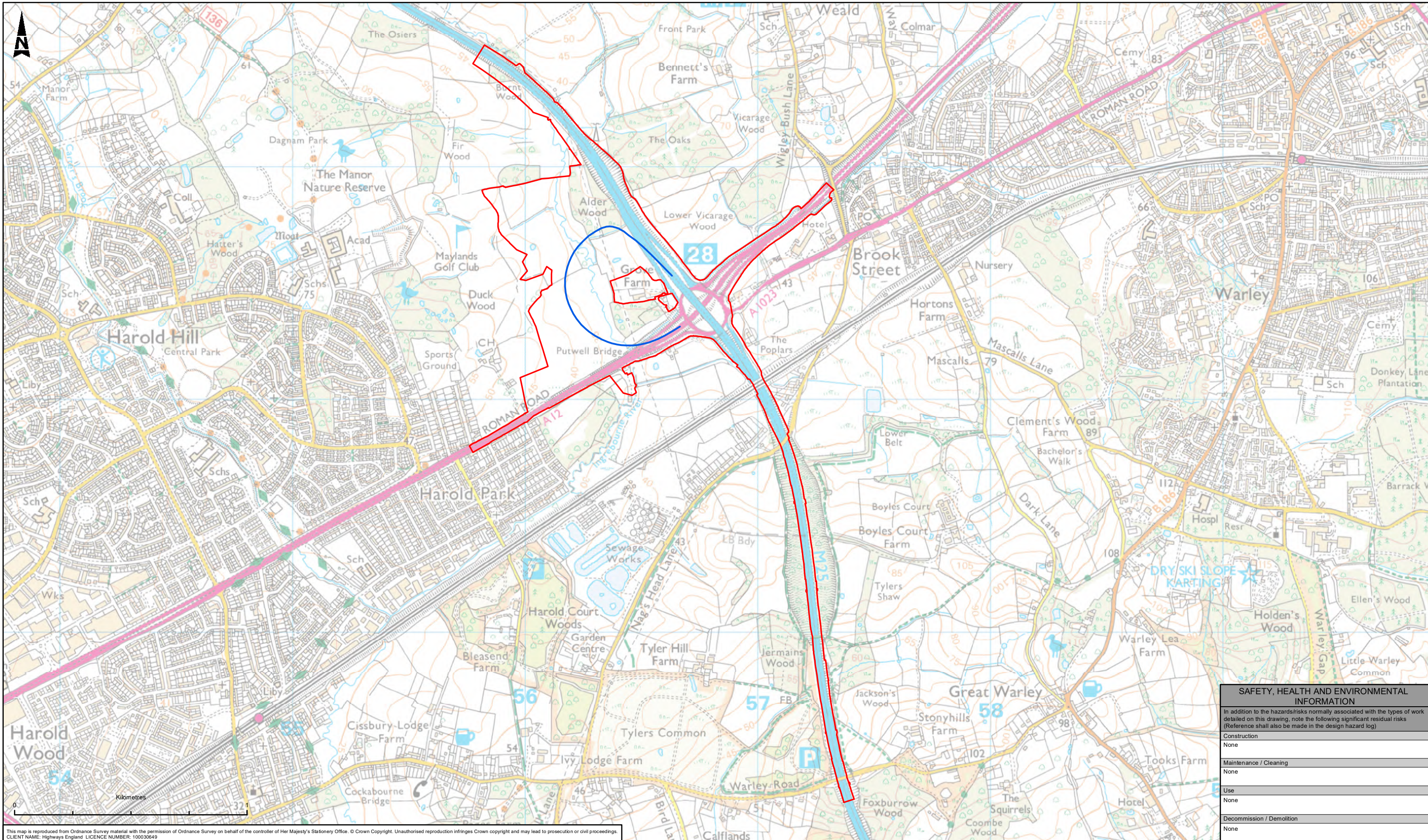
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND							
DCO Boundary							
AM Peak Speed Affected Road Network - Change >20km/hr							
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
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Project Title	M25 Junction 28
Drawing Title	FIGURE 5.6 AFFECTED ROAD NETWORK - CHANGES IN AM PEAK SPEED
Drawing Number	Project Originator Volume HE551519 - ATK - EAQ XX - GS - GI - 000006
Original Size	A3
Scale	1:15,000
Project Ref. No.	---
Sheet	1 of 1
Rev.	C01



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

LEGEND							
DCO Boundary							
PM Peak Speed Affected Road Network - Change >20km/hr							

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

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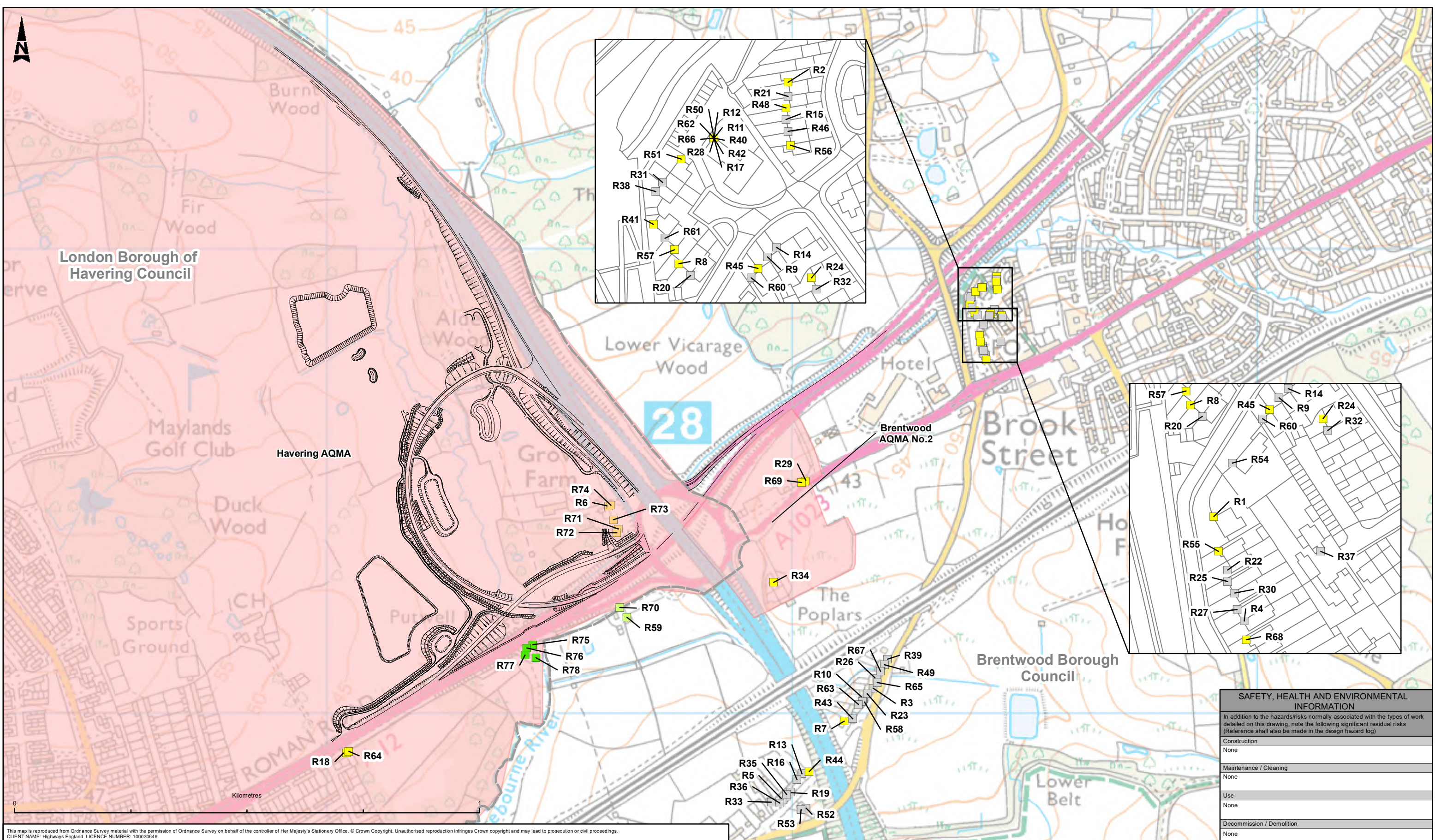
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Project Title	M25 Junction 28
Drawing Title	FIGURE 5.7 AFFECTED ROAD NETWORK - CHANGES IN PM PEAK SPEED
Drawing Number	Project: HE551519 - ATK - EAQ Originator: XX - GS - GI - 000007 Volume: 1 of 1
Original Size: A3	Scale: 1:15,000 Project Ref. No.: -- Sheet: 1 of 1 Rev: C01



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LEGEND

	Proposed Alignment
	Local Authority Boundary
	Air Quality Management Area

Human Receptors (NO₂)

	Small improvement (<math><0.4\text{ to }-2\text{ }\mu\text{g}/\text{m}^3</math>)
	Imperceptible change ($\leq 0.4\text{ to }-0.1\text{ }\mu\text{g}/\text{m}^3$)
	Imperceptible change ($0\text{ }\mu\text{g}/\text{m}^3$)
	Imperceptible change ($\geq 0.1\text{ to }0.4\text{ }\mu\text{g}/\text{m}^3$)
	Small deterioration ($>0.4\text{ to }2\text{ }\mu\text{g}/\text{m}^3$)

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PUBLISHED	A1	C01	SD	VS	EM	PG	30/04/20

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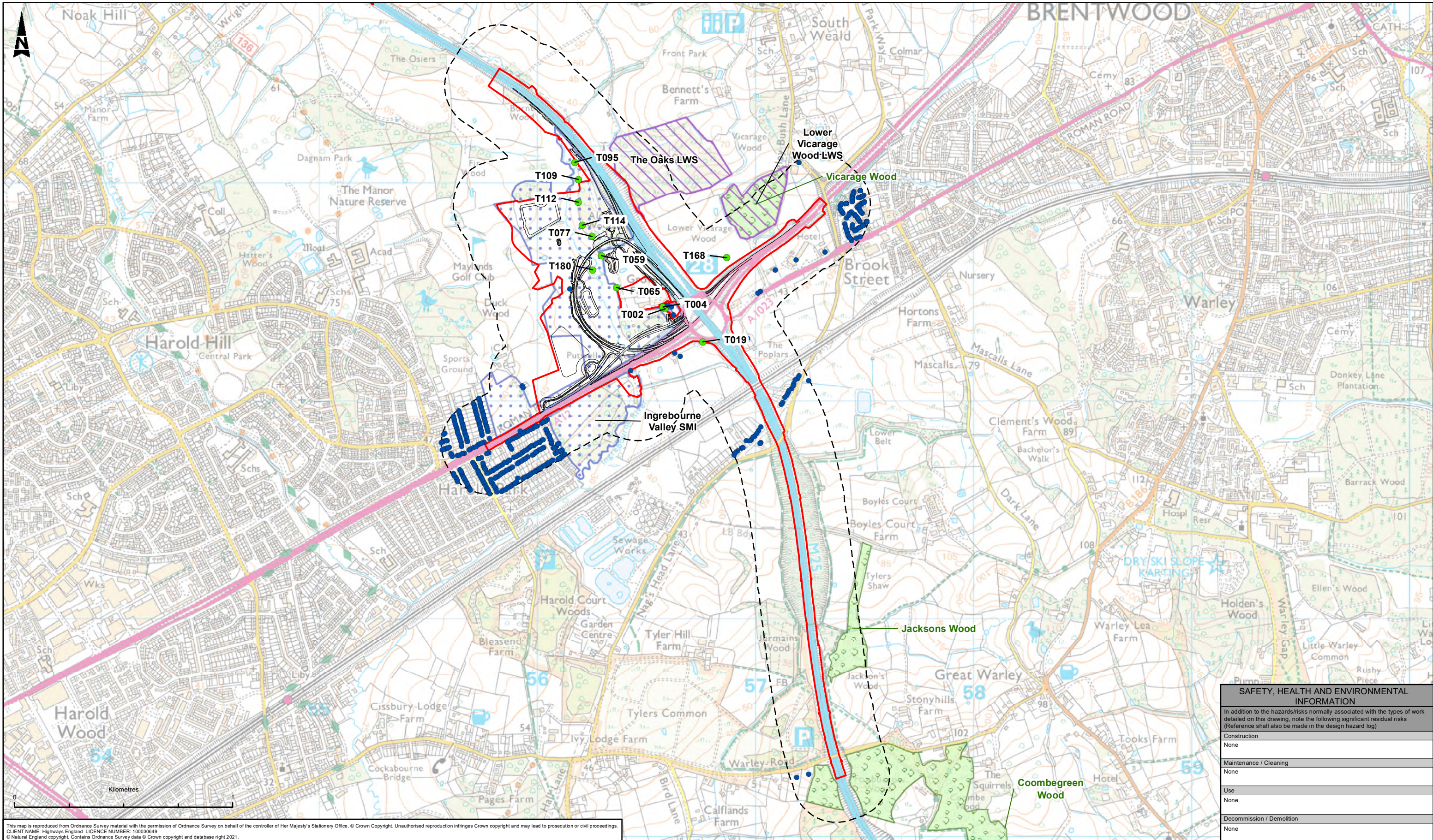
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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

Project Title		M25 Junction 28	
Drawing Title		FIGURE 5.8 AIR QUALITY RECEPTORS	
Drawing Number		HE551519 - ATK - EAQ XX - GS - GI - 000008	
Original Size: A3	Scale: 1:7,500	Project Ref. No: --	Sheet: 1 of 1 Rev: C01

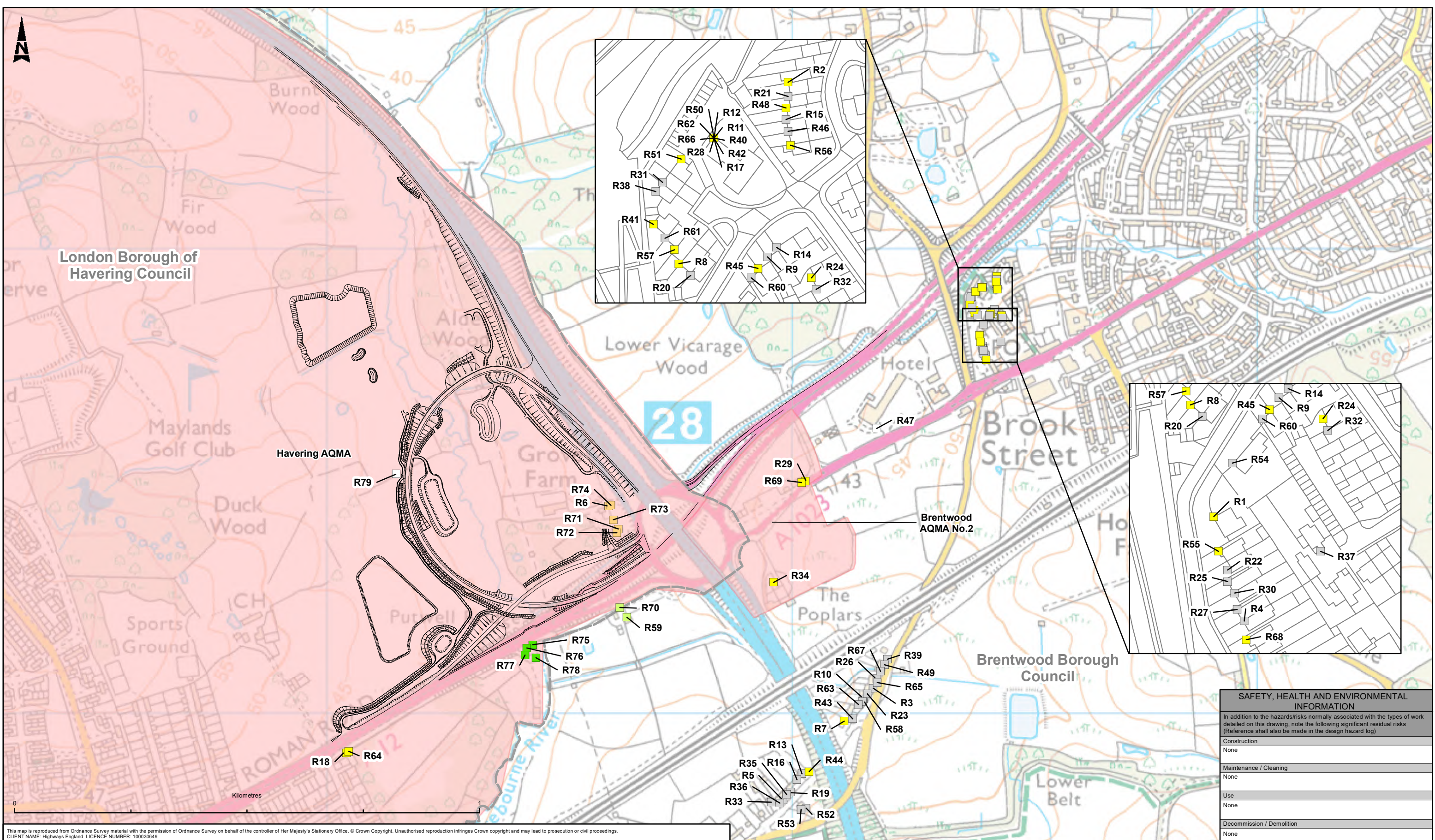


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LEGEND	
	Proposed Alignment
	DCO Boundary
	Area Potentially Affected by Construction Dust
	Ancient Woodland
	Sites of Importance for Nature Conservation (SINCs)
	Local Wildlife Sites (LoWS)
	Veteran Trees
	Receptors Sensitive to Construction Dust

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)	
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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

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<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>PUBLISHED</td> <td>A1</td> <td>C04</td> <td>SD</td> <td>VS</td> <td>EM</td> <td>PG</td> <td>29/01/21</td> </tr> </tbody> </table>	Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED	A1	C04	SD	VS	EM	PG	29/01/21	<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>PUBLISHED</td> <td>A1</td> <td>C04</td> <td>SD</td> <td>VS</td> <td>EM</td> <td>PG</td> <td>29/01/21</td> </tr> </tbody> </table>	Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED	A1	C04	SD	VS	EM	PG	29/01/21	<table border="1"> <thead> <tr> <th>Project Title</th> <th>Drawing Title</th> <th>Drawing Number</th> </tr> </thead> <tbody> <tr> <td>M25 Junction 28</td> <td>FIGURE 5.9 REVISED STUDY AREA FOR CONSTRUCTION DUST ASSESSMENT</td> <td>HE551519 - ATK - EAQ XX - GS - GI - 000010</td> </tr> </tbody> </table>	Project Title	Drawing Title	Drawing Number	M25 Junction 28	FIGURE 5.9 REVISED STUDY AREA FOR CONSTRUCTION DUST ASSESSMENT	HE551519 - ATK - EAQ XX - GS - GI - 000010
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																																	
PUBLISHED	A1	C04	SD	VS	EM	PG	29/01/21																																	
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																																	
PUBLISHED	A1	C04	SD	VS	EM	PG	29/01/21																																	
Project Title	Drawing Title	Drawing Number																																						
M25 Junction 28	FIGURE 5.9 REVISED STUDY AREA FOR CONSTRUCTION DUST ASSESSMENT	HE551519 - ATK - EAQ XX - GS - GI - 000010																																						
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Location	Type	Project Ref. No.	Role	Sheet	Number	Rev.																																		
A3	Scale	1:16,000	---	1 of 1	C04																																			
Project	Originator	Volume																																						
HE551519 - ATK - EAQ	XX - GS - GI - 000010																																							



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

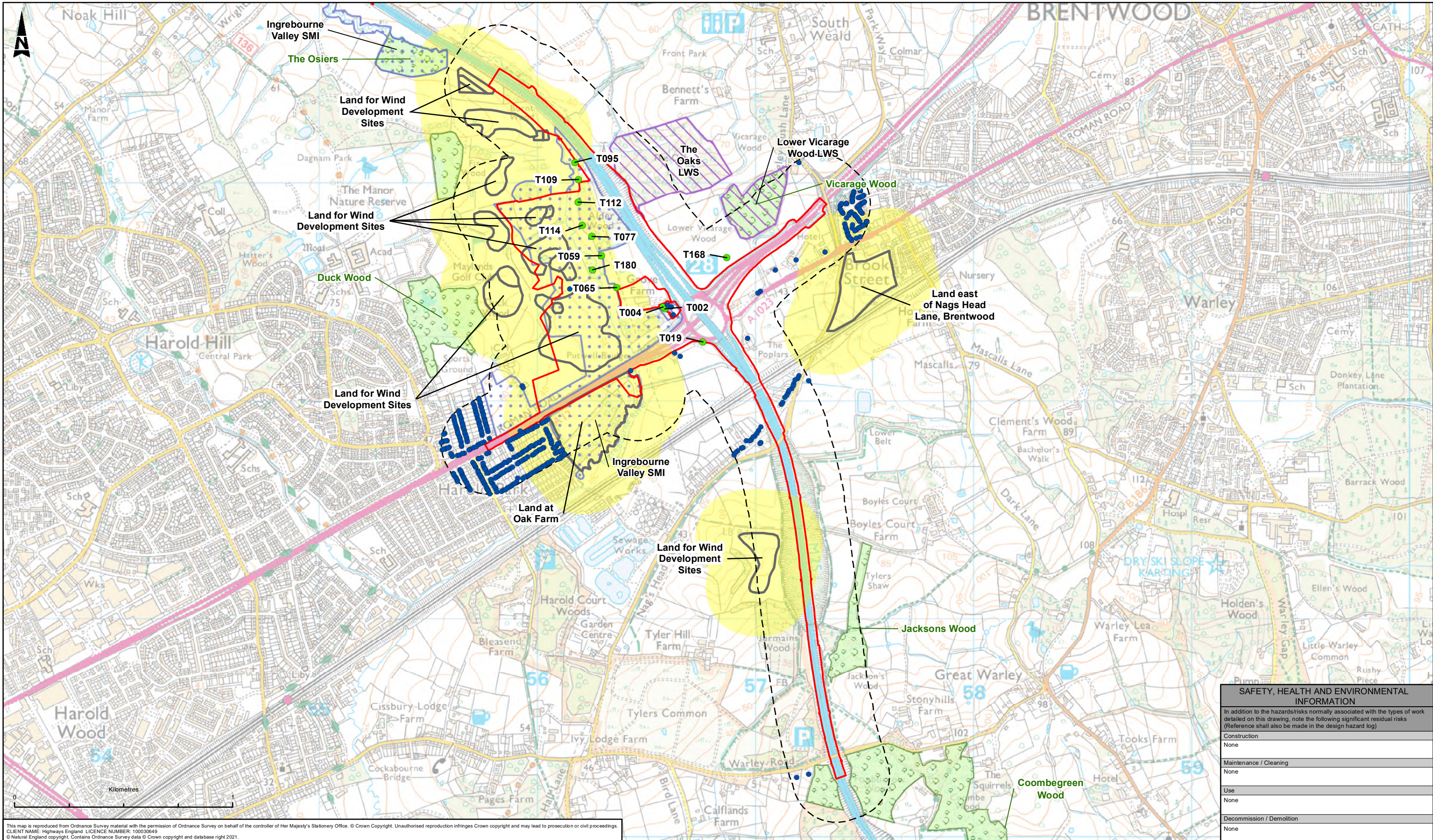
LEGEND	
	Proposed Alignment
	Local Authority Boundary
	Air Quality Management Area
Human Receptors (NO ₂)	
	Small improvement (<0.4 to -2 µg/m ³)
	Imperceptible change (≤0.4 to -0.1 µg/m ³)
	Imperceptible change (0 µg/m ³)
	Imperceptible change (≥0.1 to 0.4 µg/m ³)
	Small deterioration (>0.4 to 2 µg/m ³)
	Receptors for Comparison with Short-Term Air Quality Criteria

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Project Title	M25 Junction 28
Drawing Title	FIGURE 5.10 REVISED AIR QUALITY RECEPTORS
Drawing Number	Project: HE551519 - ATK - EAQ XX - GS - GI - 000011
Original Size	A3
Scale	1:7,500
Project Ref. No.	---
Sheet	1 of 1
Rev.	C01



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

LEGEND DCO Boundary Area Potentially Affected by Construction Dust Proposed Developments Area with Potential for Cumulative Dust Impact Ancient Woodland Sites of Importance for Nature Conservation (SINCs) Local Wildlife Sites (LoWS) Veteran Trees Receptors Sensitive to Construction Dust	Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED Status A1 Revision C04 Drawn SD Checked VS Reviewed EM Authorised PG Issue Date 02/02/21	Drawing Suitability 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 (2021) www.atkinsglobal.com	Status A1	Project Title M25 Junction 28	
	Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED Status A1 Revision C04 Drawn SD Checked VS Reviewed EM Authorised PG Issue Date 02/02/21	Drawing Title FIGURE 5.11 DEVELOPMENTS WITH POTENTIAL FOR CUMULATIVE DUST IMPACT	Drawing Number Project HE551519 - ATK - EAQ Originator XX - GS - GI - 000012 Volume Location Type Role Number Original Size: A3 Scale 1:16,000 Project Ref. No. --- Sheet 1 of 1 Rev: C04		
	Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED Status A1 Revision C04 Drawn SD Checked VS Reviewed EM Authorised PG Issue Date 02/02/21	Client 			
	Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED Status A1 Revision C04 Drawn SD Checked VS Reviewed EM Authorised PG Issue Date 02/02/21				
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