

# **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



# 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 ]

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#### 6.2 ENVIRONMENTAL STATEMENT CHAPTER 5: AIR QUALITY 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
3	June 2021	Deadline 9, final version
2	4 February 2021	Deadline 2
1	May 2020	Application issue



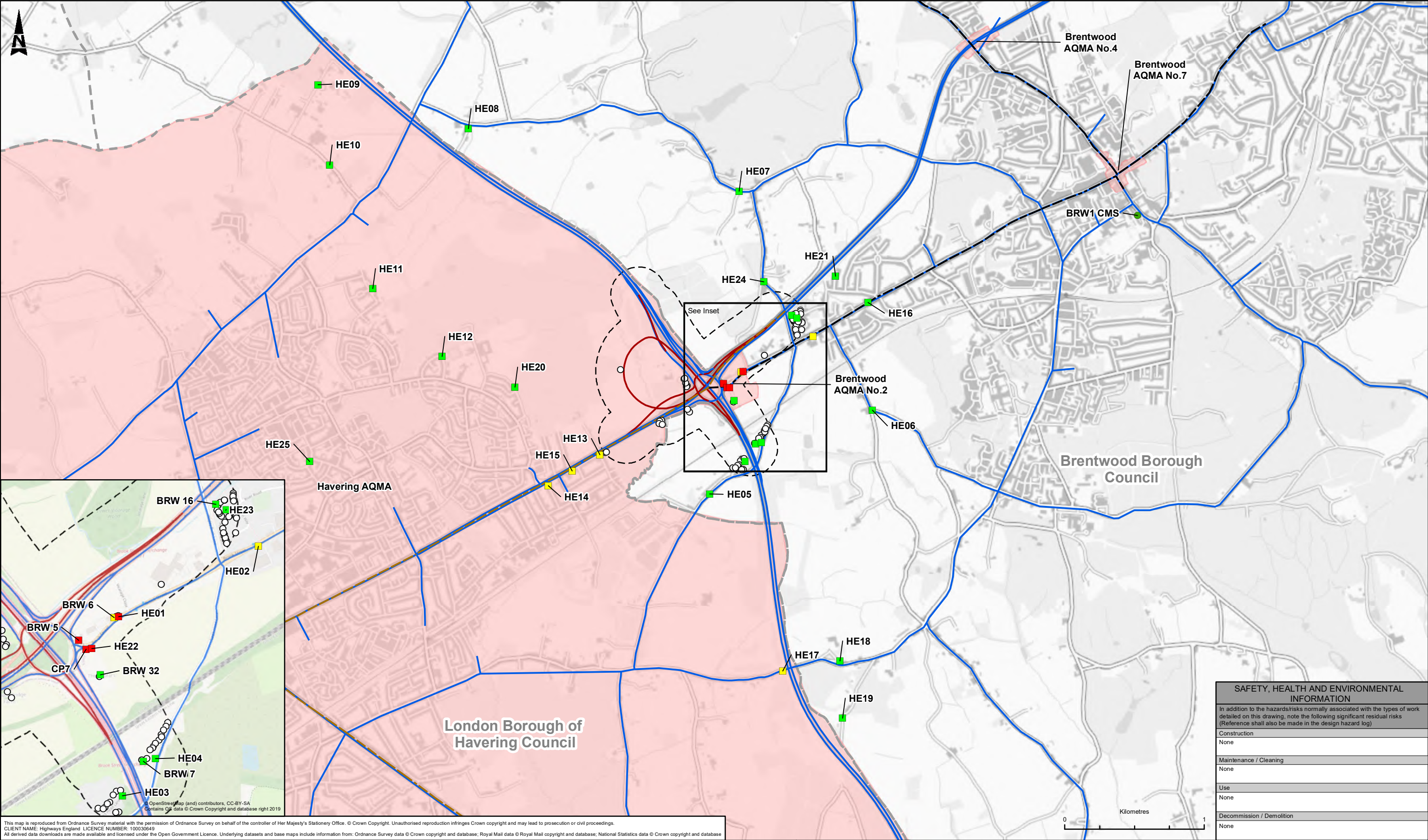
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# 1. Schedule of figures included in this application document

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Figure 5.2 Study Area for Construction Dust Assessment	TR010029/APP/6.2	0
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LEGEND

Local Authority Boundary

Air Quality Management Area

Sensitive Human Health Receptors

**DEFRA PCM Roadside NO<sub>2</sub> Concentrations (2015)**

< 40 µg/m<sup>3</sup>

> 40 µg/m<sup>3</sup>

**Modelled Road Network**

Affected Road Network

Unaffected Road Network

200m study area around Affected Road Network

**Diffusion Tube Monitoring Sites (2015)**

Annual Mean NO<sub>2</sub> Concentration

No data

< 36 µg/m<sup>3</sup>

36 to 40 µg/m<sup>3</sup>

> 40 µg/m<sup>3</sup>

**Continuous Monitoring Sites (2015)**

Annual Mean NO<sub>2</sub> Concentration

No data

< 36 µg/m<sup>3</sup>

36 to 40 µg/m<sup>3</sup>

> 40 µg/m<sup>3</sup>

Description

Status

Revision

Drawn

Checked

Reviewed

Authorised

Issue Date

Description

Status

Revision

Drawn

Checked

Reviewed

Authorised

Issue Date

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Drawing Suitability

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Project Title

M25 Junction 28

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FIGURE 5.1  
AIR QUALITY CONSTRAINTS

Drawing Number

Project

HE551519 - ATK - EAQ

Location

XX - GS - GI - 000001

Type

Ref. No.

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Role

Number

1 of 1

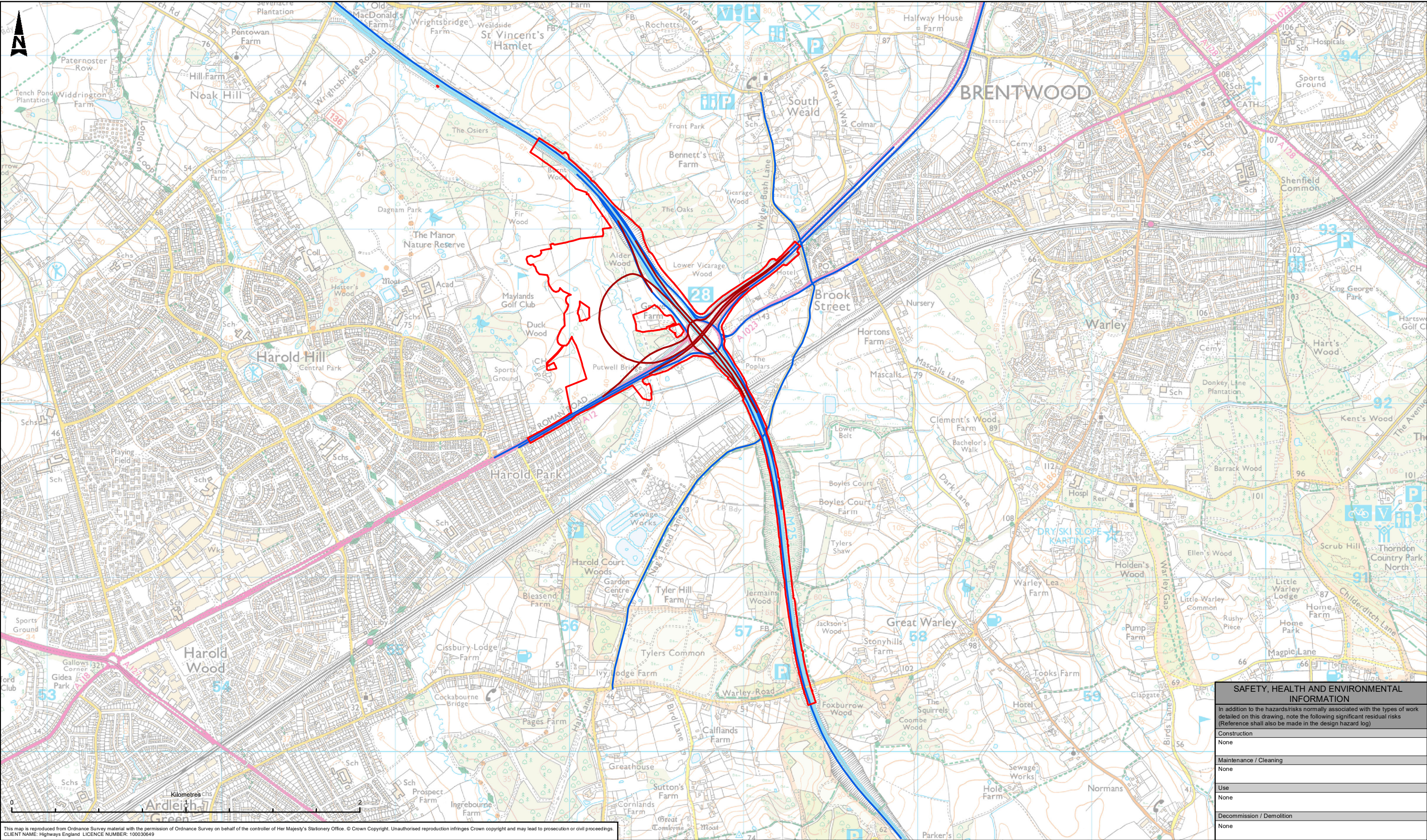
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**LEGEND**

DCO Boundary

Local Affected Road Network

Local Unaffected Road Network

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Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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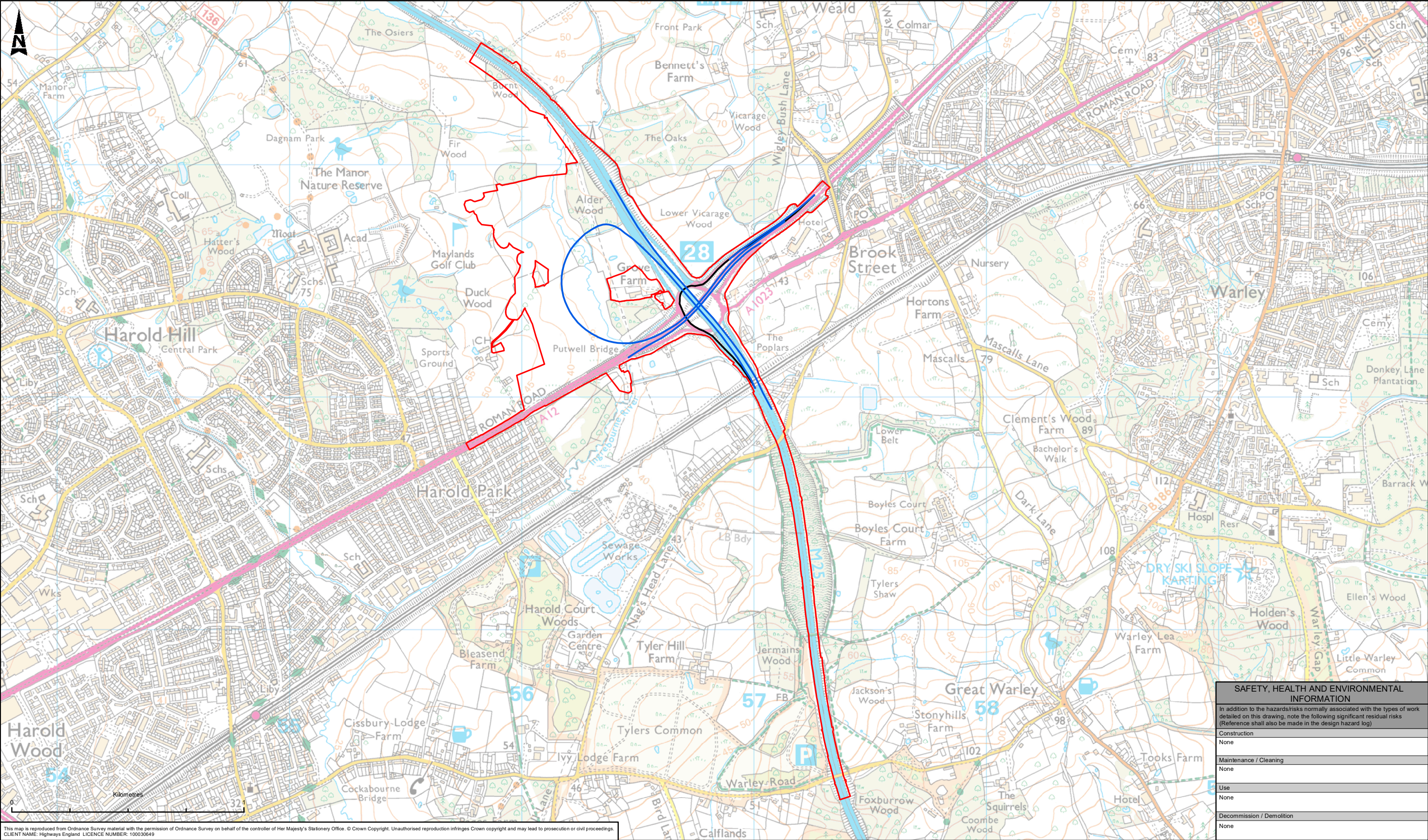
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**FIGURE 5.3**  
**LOCAL AFFECTED ROAD NETWORK**

Drawing Number

Project: HE551519 - ATK - EAQ  
Location: XX - GS - GI - 000003  
Type: ---  
Role: ---  
Number: 1 of 1  
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LEGEND

DCO Boundary

AADT

Affected Road Network - Change >1000

Affected Road Network - Change <=1000

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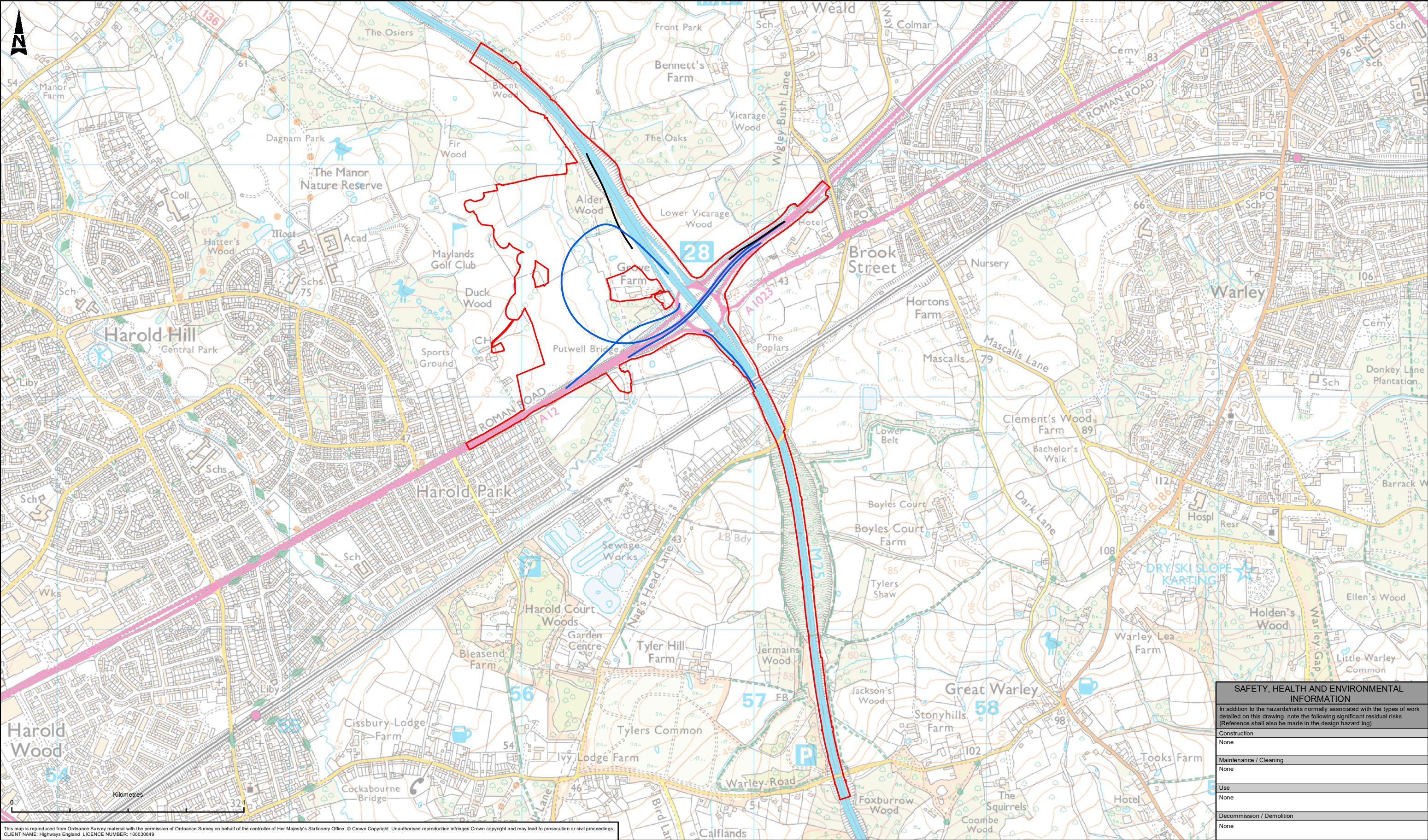
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FIGURE 5.4  
AFFECTED ROAD NETWORK -  
CHANGES IN AADT

Drawing Number

Project  
HE551519 - ATK - EAQ  
XX - GS - GI - 000004  
Location  
Type  
Role  
Number  
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**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
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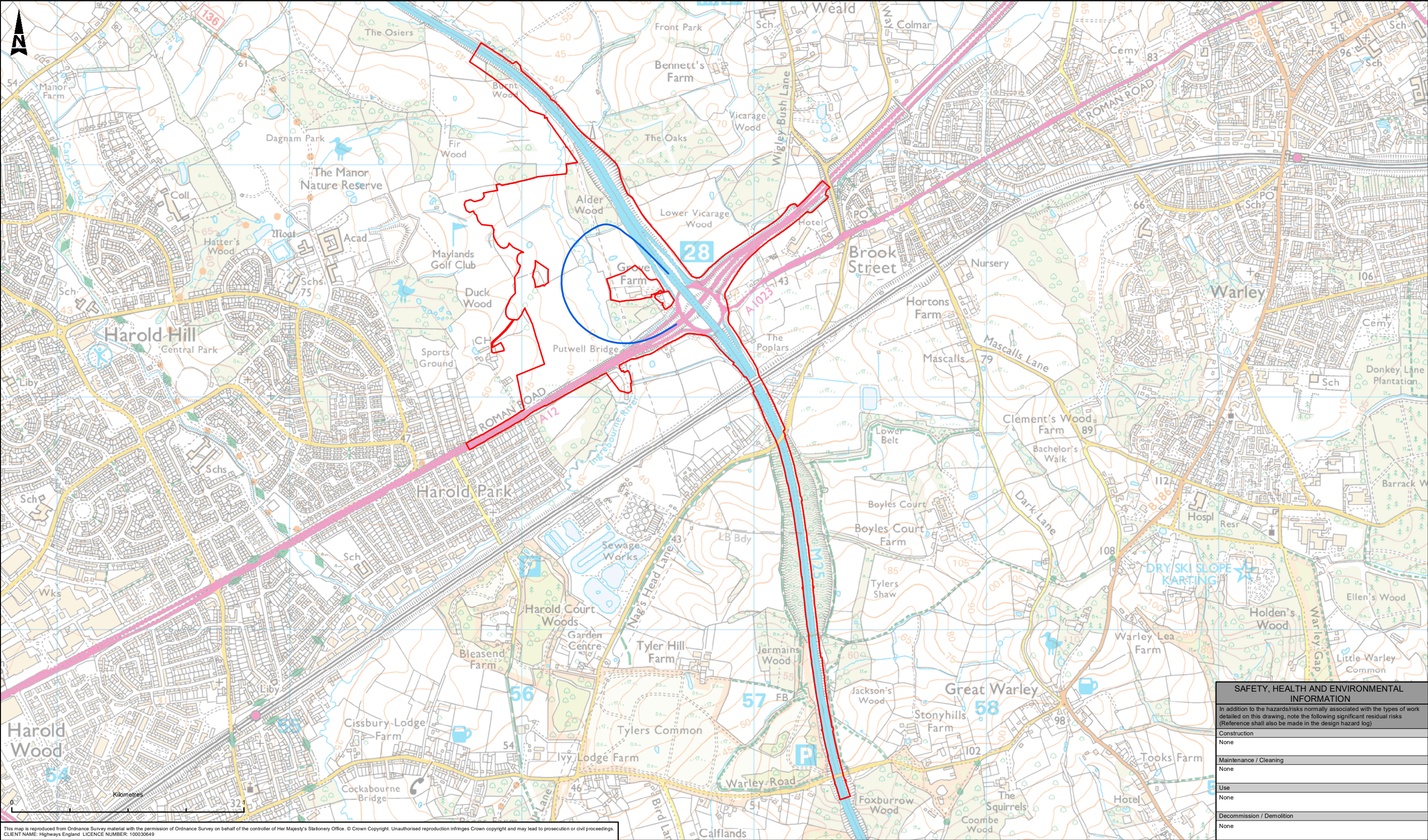
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION									
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)									
Construction									
None									
Maintenance / Cleaning									
None									
Use									
None									
Decommission / Demolition									
None									
Project Title					M25 Junction 28				
Drawing Title					FIGURE 5.5 AFFECTED ROAD NETWORK - CHANGES IN DAILY AVERAGE SPEED				
Drawing Number					HE551519 - ATK - EAQ XX - GS - GI - 000005				
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LEGEND

DCO Boundary

AM Peak Speed

Affected Road Network - Change >20km/hr

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Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Construction

None

Maintenance / Cleaning

None

Use

None

Decommission / Demolition

None

Project Title

M25 Junction 28

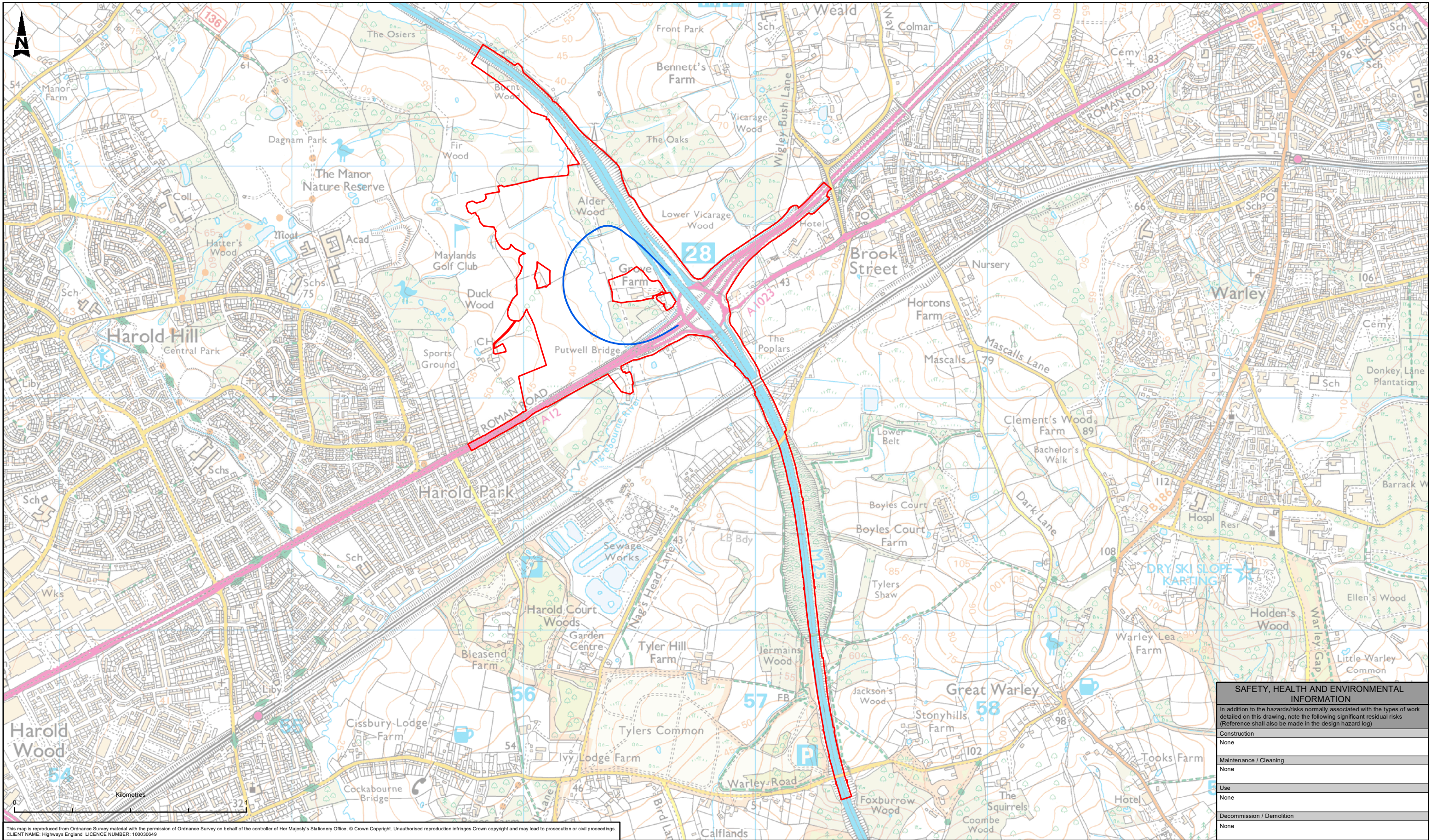
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FIGURE 5.6  
AFFECTED ROAD NETWORK -  
CHANGES IN AM PEAK SPEED

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HE551519 - ATK - EAQ  
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LEGEND

DCO Boundary

PM Peak Speed

Affected Road Network - Change >20km/hr

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FIGURE 5.7  
AFFECTED ROAD NETWORK -  
CHANGES IN PM PEAK SPEED

Drawing Number

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Construction

None

Maintenance / Cleaning

None

Use

None

Decommission / Demolition

None

Drawing Suitability

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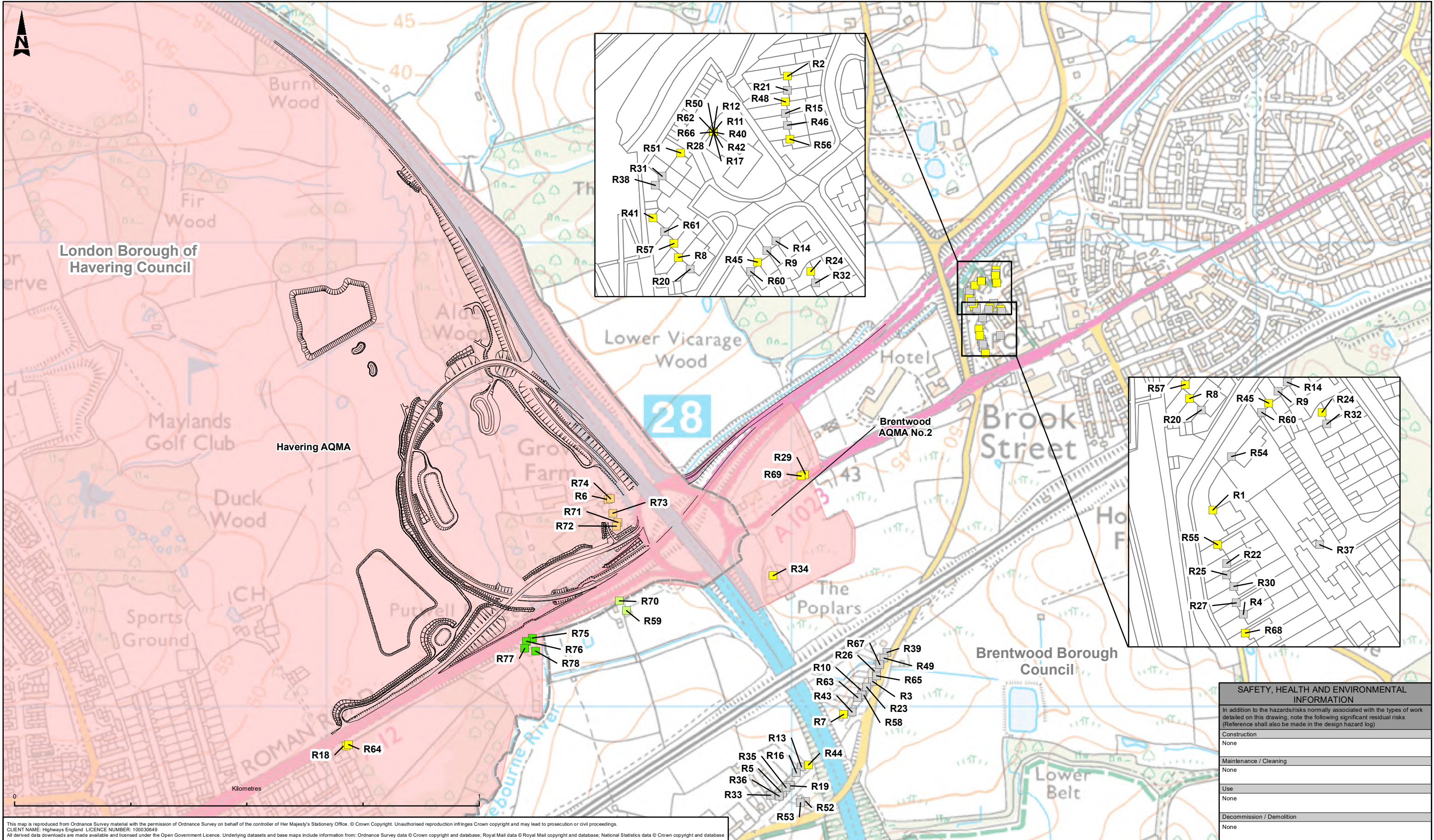
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M25 Junction 28



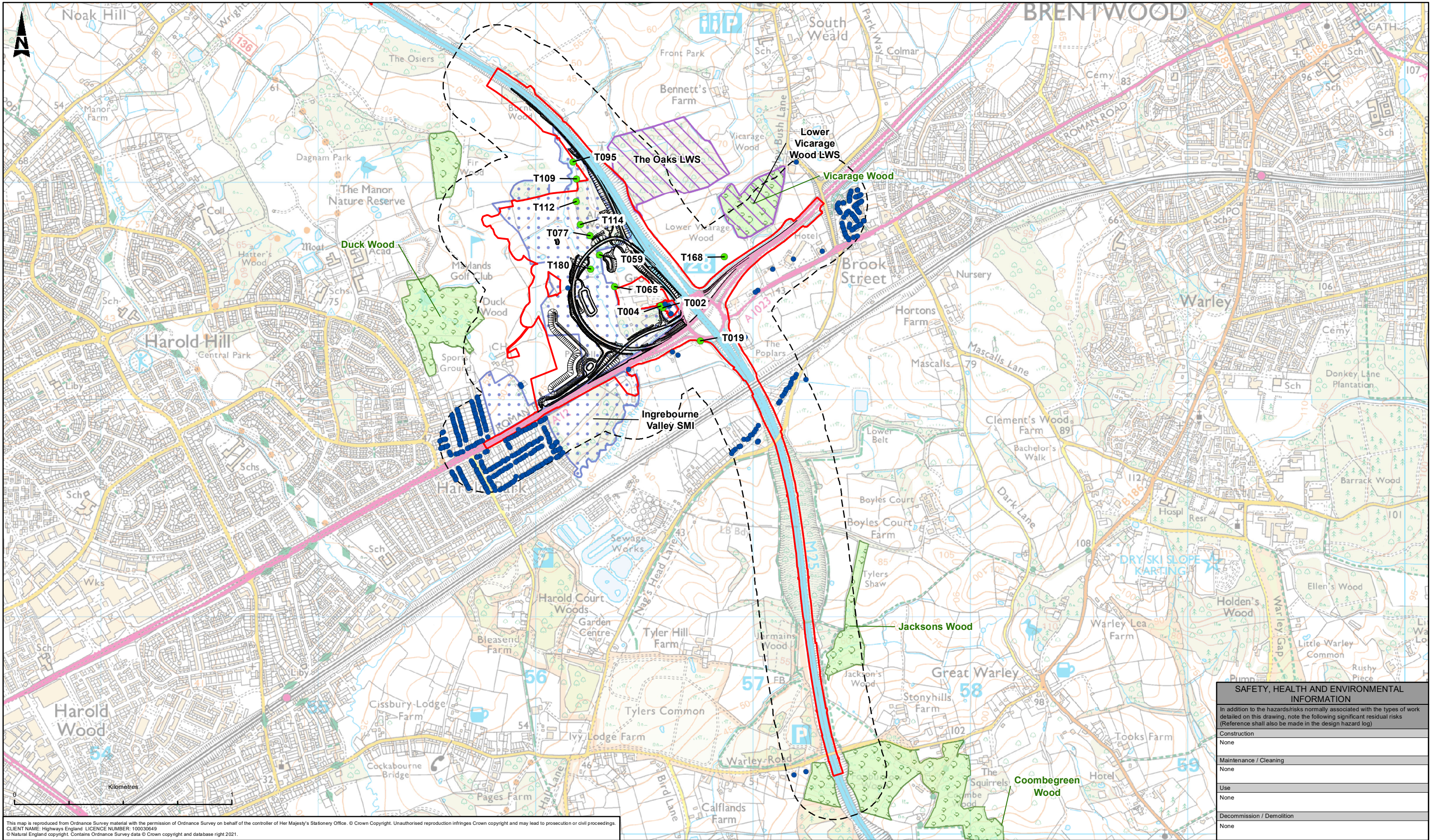


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LEGEND									
<div></div> Proposed Alignment		Human Receptors (NO <sub>2</sub> )							
<div></div> Local Authority Boundary		<div></div> Small improvement (<0.4 to -2 µg/m³)							
<div></div> Air Quality Management Area		<div></div> Imperceptible change (≤-0.4 to -0.1 µg/m³)							
		<div></div> Imperceptible change (0 µg/m³)							
		<div></div> Imperceptible change (≥0.1 to 0.4 µg/m³)							
		<div></div> Small deterioration (>0.4 to 2 µg/m³)							

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Status							Revision			Drawn				





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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

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

Drawing Suitability

PUBLISHED

ATKINS

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Client

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 5.9  
REVISED STUDY AREA FOR CONSTRUCTION  
DUST ASSESSMENT

Drawing Number

Project

HE551519 - ATK - EAQ

Location

XX - GS - GI - 000010

Original Size

A3

Scale

1:16,000

Project Ref. No.

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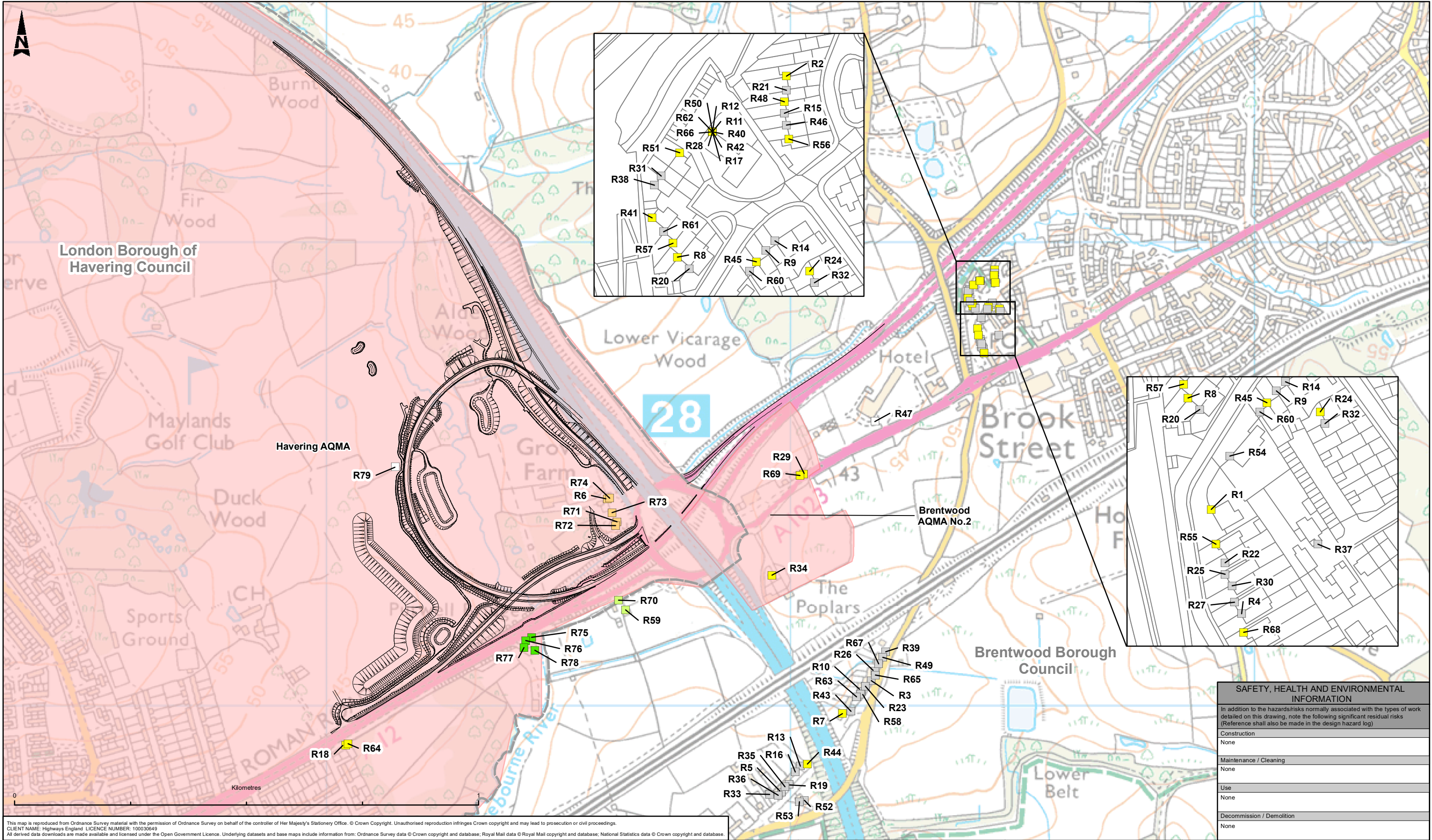
Sheet

1 of 1











Rev.

C05



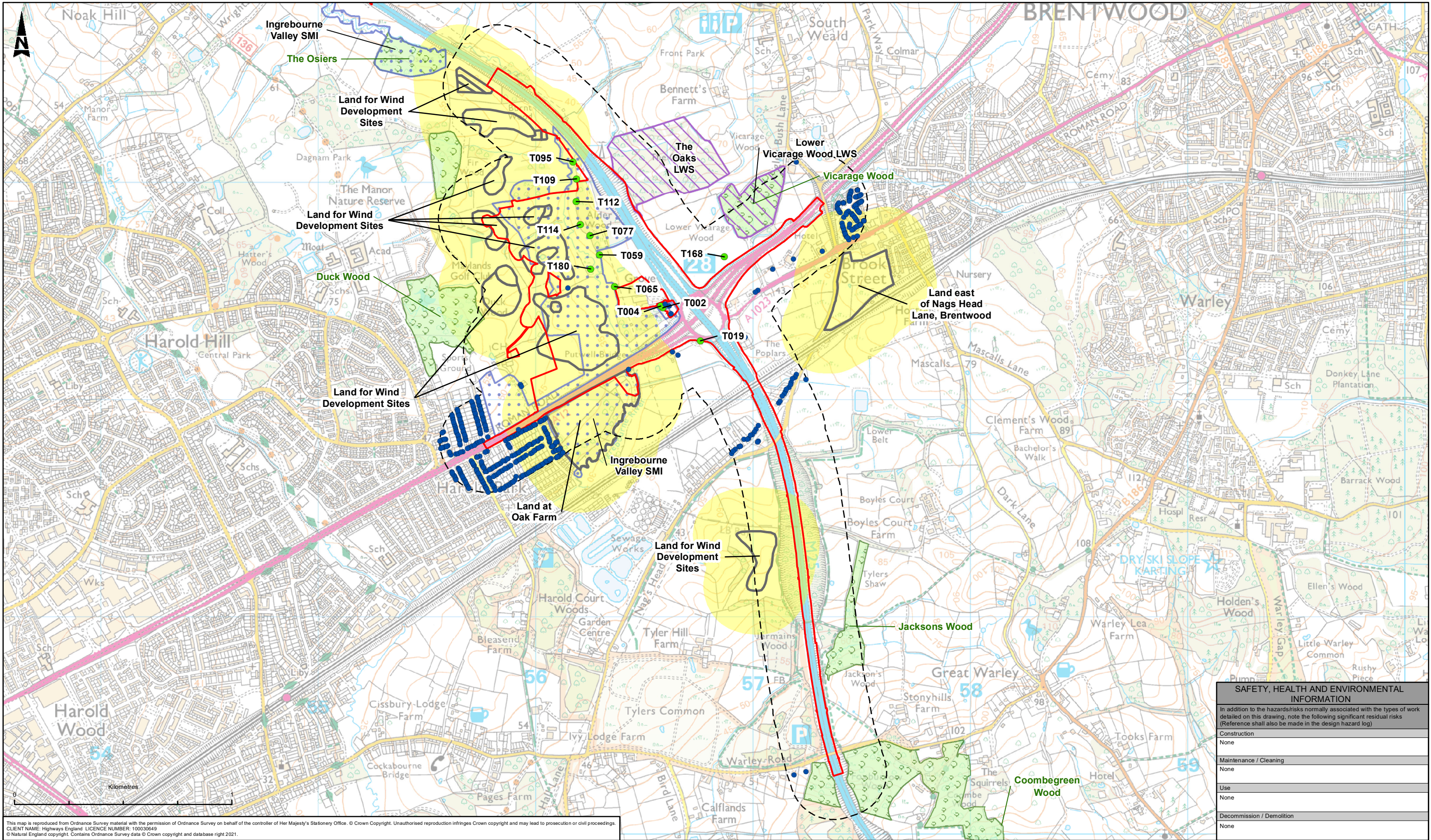


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LEGEND										
 Proposed Alignment		<b>Human Receptors (NO<sub>2</sub>)</b>								
 Local Authority Boundary		 Small improvement (<-0.4 to -2 µg/m³)								
 Air Quality Management Area		 Imperceptible change (≤-0.4 to -0.1 µg/m³)								
		 Imperceptible change (0 µg/m³)								
		 Imperceptible change (≥0.1 to 0.4 µg/m³)								
		 Small deterioration (>0.4 to 2 µg/m³)								
		 Receptors for Comparison with Short-Term Air Quality Criteria								
Description					Drawing Suitability		Status		Project Title	
Status					PUBLISHED		A1		M25 Junction 28	
Description					ATKINS					Drawing Title
Status					Member of the SNC-Lavalin Group					FIGURE 5.10 REVISED AIR QUALITY RECEPTORS
Description					Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL					
Status					Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055					
Description					Copyright © Atkins Limited (2021) www.atkinsglobal.com					
Description					Client					Drawing Number
PUBLISHED										Project HE551519 - ATK - EAQ
Status					XX - GS - GI - 000011					Originator XX - GS - GI - 000011
Description					PUBLISHED					Volume
Status					A1					HE551519 - ATK - EAQ
Description					PUBLISHED					XX - GS - GI - 000011
Status					A1					XX - GS - GI - 000011
Description					PUBLISHED					Location
Status					A1					Type
Description					PUBLISHED					Role
Status					A1					Number
Description					PUBLISHED					Original Size: A3
Status					A1					Scale
Description					PUBLISHED					1:7,500
Status					A1					Project Ref. No: ---
Description					PUBLISHED					Sheet: 1 of 1
Status					A1					Rev: C02

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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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

Description

Status

Revision

Drawn

Checked

Reviewed

Authorised

Issue Date

Description

Status

Revision

Drawn

Checked

Reviewed

Authorised

Issue Date

Description

Status

Revision

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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 5.11  
DEVELOPMENTS WITH POTENTIAL  
FOR CUMULATIVE DUST IMPACT

Drawing Number

Project

HE551519 - ATK - EAQ

Originator

XX - GS - GI - 000012

Volume

Original Size

A3

Scale

1:16,000

Project Ref. No.

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Sheet

1 of 1

Rev.

C05



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