

# M25 junction 28 improvement scheme TR010029

## 6.2 Environmental Statement Chapter 9: Landscape and visual figures

APFP 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 9: LANDSCAPE AND VISUAL 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

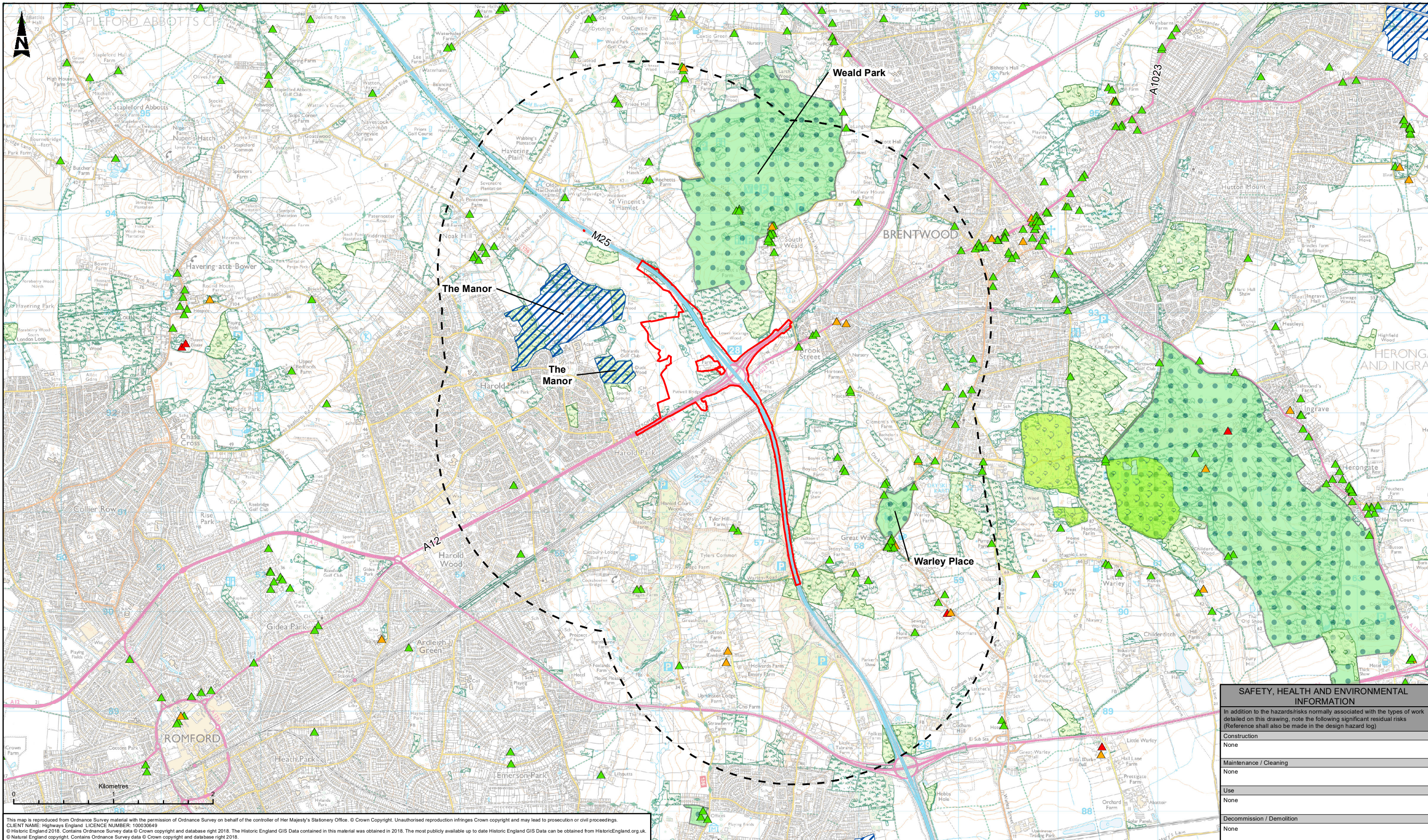
<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
1	May 2020	Application issue

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## 2. Schedule of figures included in this application document

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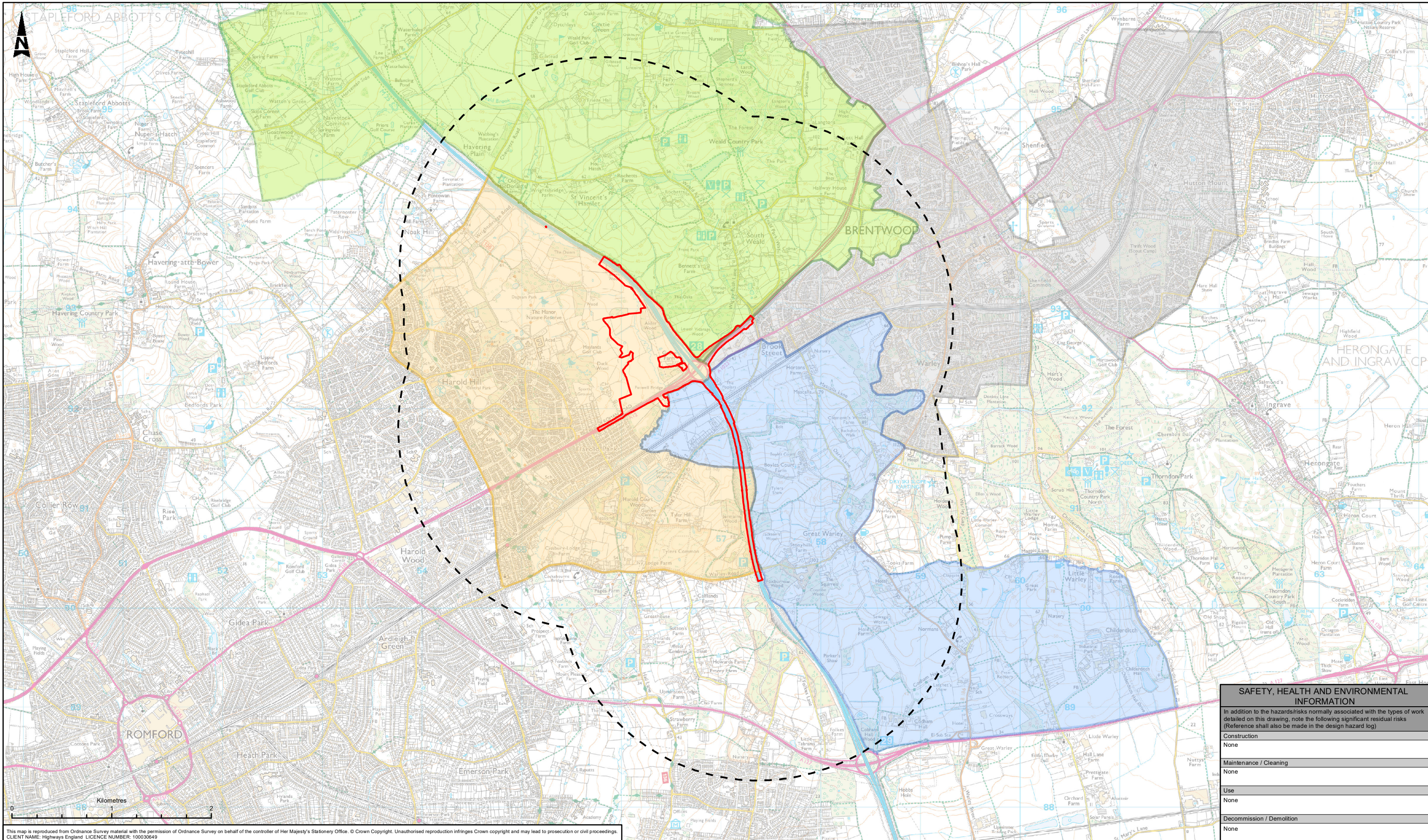
LEGEND	
	DCO Boundary
	Listed Building Grade I
	2km Study Area
	Local Nature Reserves
	Listed Building Grade II*
	Registered Parks and Gardens
	Listed Building Grade II
	Ancient & Semi-Natural Woodland
	Ancient Replanted Woodland
	Deciduous Woodland

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	ROAD IMPROVEMENT PROGRAMME M25 Junction 28
PUBLISHED							A1
Description		Drawing Title		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	FIGURE 9.1 LOCAL DESIGNATIONS
PUBLISHED							
Description		Drawing Number		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	HE551519 - ATK - ELS XX - GS - GI - 000001
PUBLISHED							
Description		Client		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Project: HE551519 - ATK - ELS Originator: ATK Volume: XX - GS - GI - 000001
PUBLISHED							
Description		Client		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Location: --- Scale: 1:35,000 Project Ref. No.: --- Type: --- Role: --- Sheet: 1 of 1 Number: --- Rev: C02
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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
- 2km Study Area
- Landscape Character Areas - Regional**
- Brentwood District Council**
- F13 Great Warley Wooded Farmland
- F15 Weald Wooded Farmland
- Urban Character Area
- Havering London Borough**
- Urban Character Area

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

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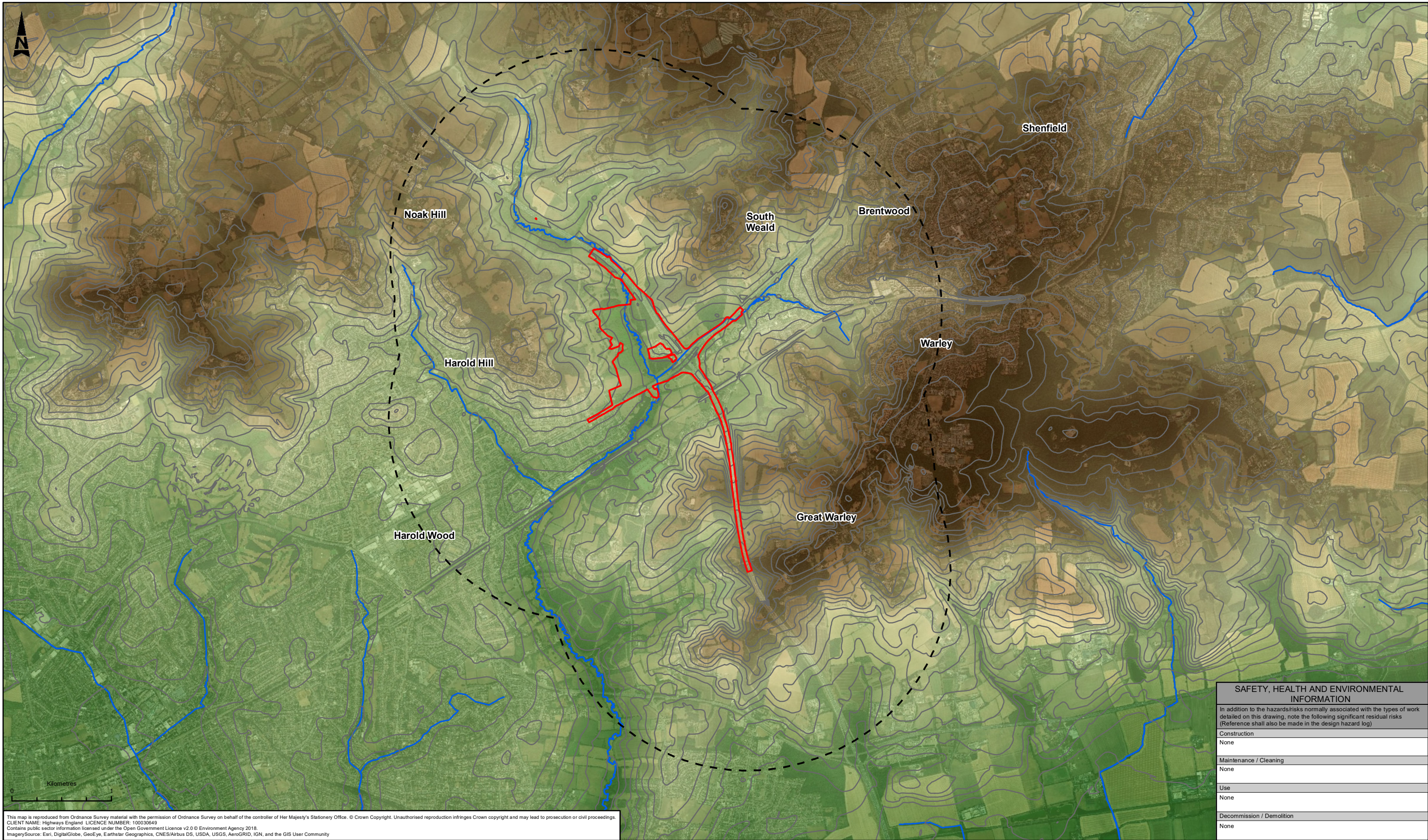
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Project Title	M25 Junction 28
Drawing Title	FIGURE 9.2 LANDSCAPE CHARACTER
Drawing Number	Project: HE551519 - ATK - ELS Originator: XX - GS - GI - 000002 Volume: 1 of 1
Original Size: A3	Scale: 1:35,000
Project Ref. No.:	---
Sheet:	1 of 1
Rev:	C02



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**LEGEND**

- DCO Boundary
- 2km Study Area
- River and Canal Watercourses
- 5m Contours

**Elevation (5 metres DTM)**

High : 120.62

Low : -2.3

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED						
A1	C02	SD	NH	EM	PG	17/03/20

**PUBLISHED**

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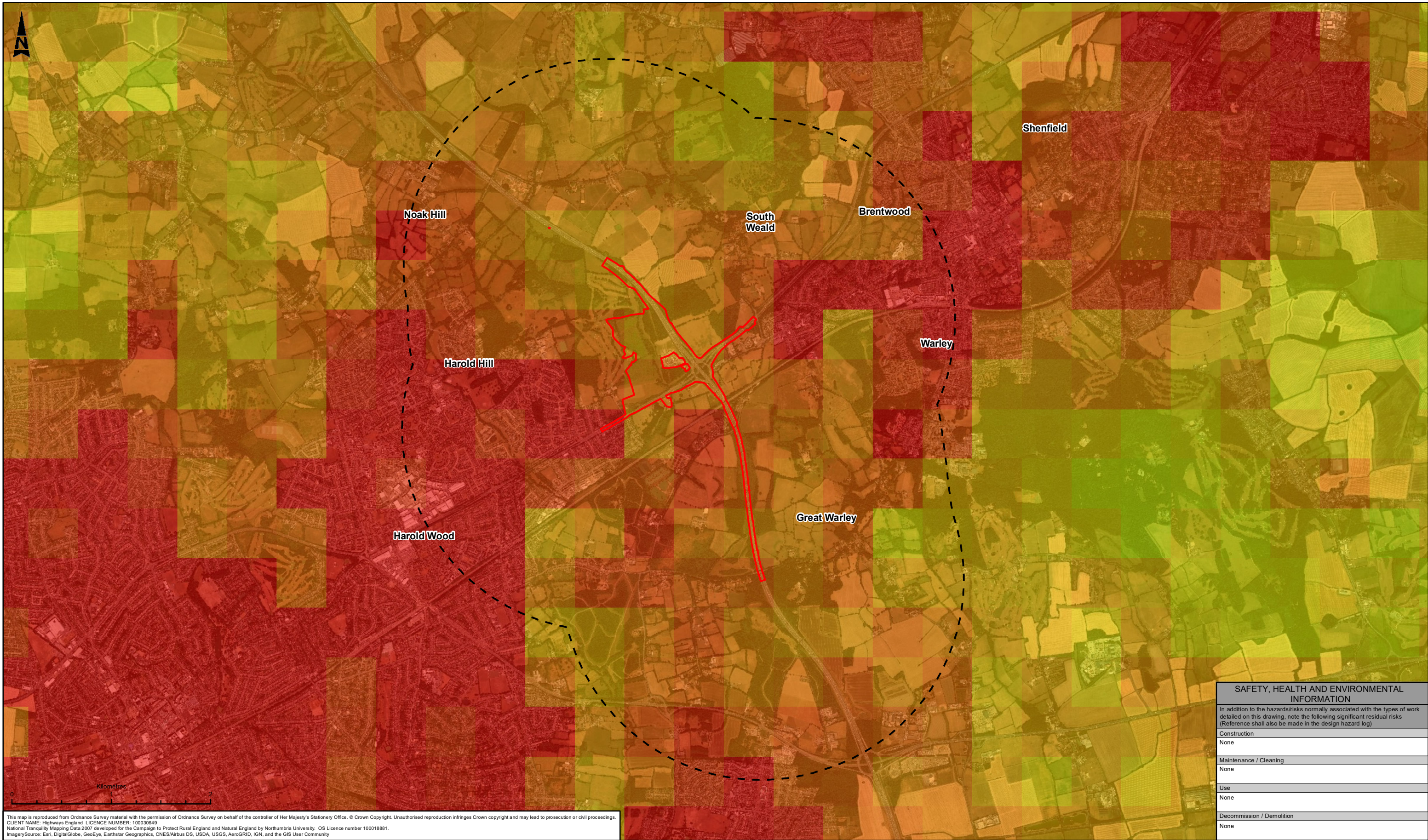
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Construction									
None									
Maintenance / Cleaning									
None									
Use									
None									
Decommission / Demolition									
None									
Project Title		M25 Junction 28							
Drawing Title		FIGURE 9.3 TOPOGRAPHY							
Drawing Number		Project: HE551519 - ATK - ELS Originator: XX - GS - GI - 000003 Volume: ---							
Original Size: A3	Scale: 1:35,000	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

LEGEND							
	DCO Boundary						
	2km Study Area						
<b>Tranquility 2006</b>							
<b>Value</b>							
	Most Tranquil						
	Least Tranquil						

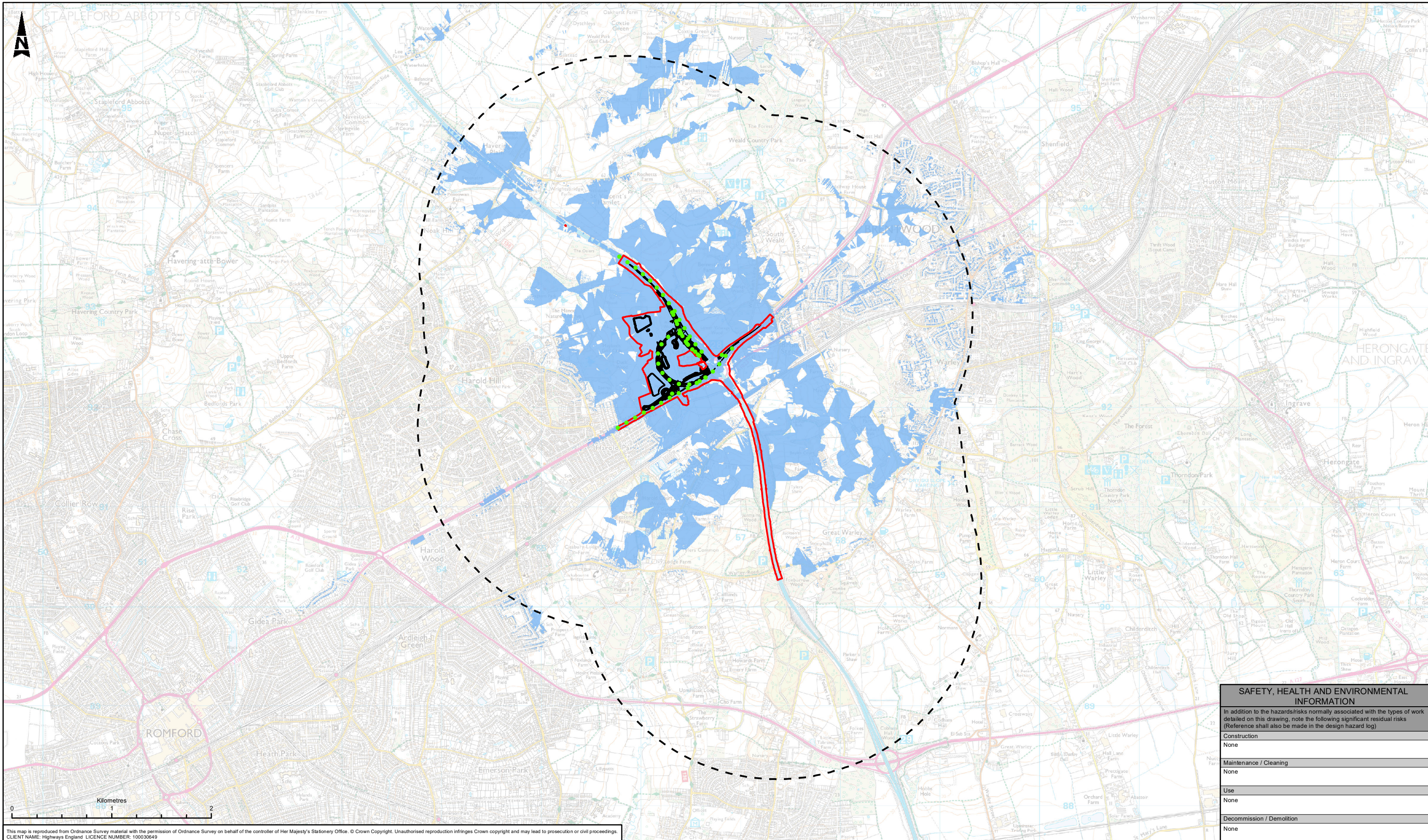
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Project Title		M25 Junction 28	
Drawing Title		FIGURE 9.4 TRANQUILLITY	
Drawing Number		HE551519 - ATK - ELS XX - GS - GI - 000004	
Original Size: A3	Scale: 1:35,000	Project Ref. No: --	Sheet: 1 of 1 Rev: C02





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**LEGEND**

- DCO Boundary
- 2km Study Area
- Indicative Extent of Surrounding Area From Which Views to the Proposed Scheme May Be Visible (Winter Scenario)
- Proposed Scheme Alignment
- Indicative Observer Points at 100m Intervals Along Proposed Alignment

**Notes**

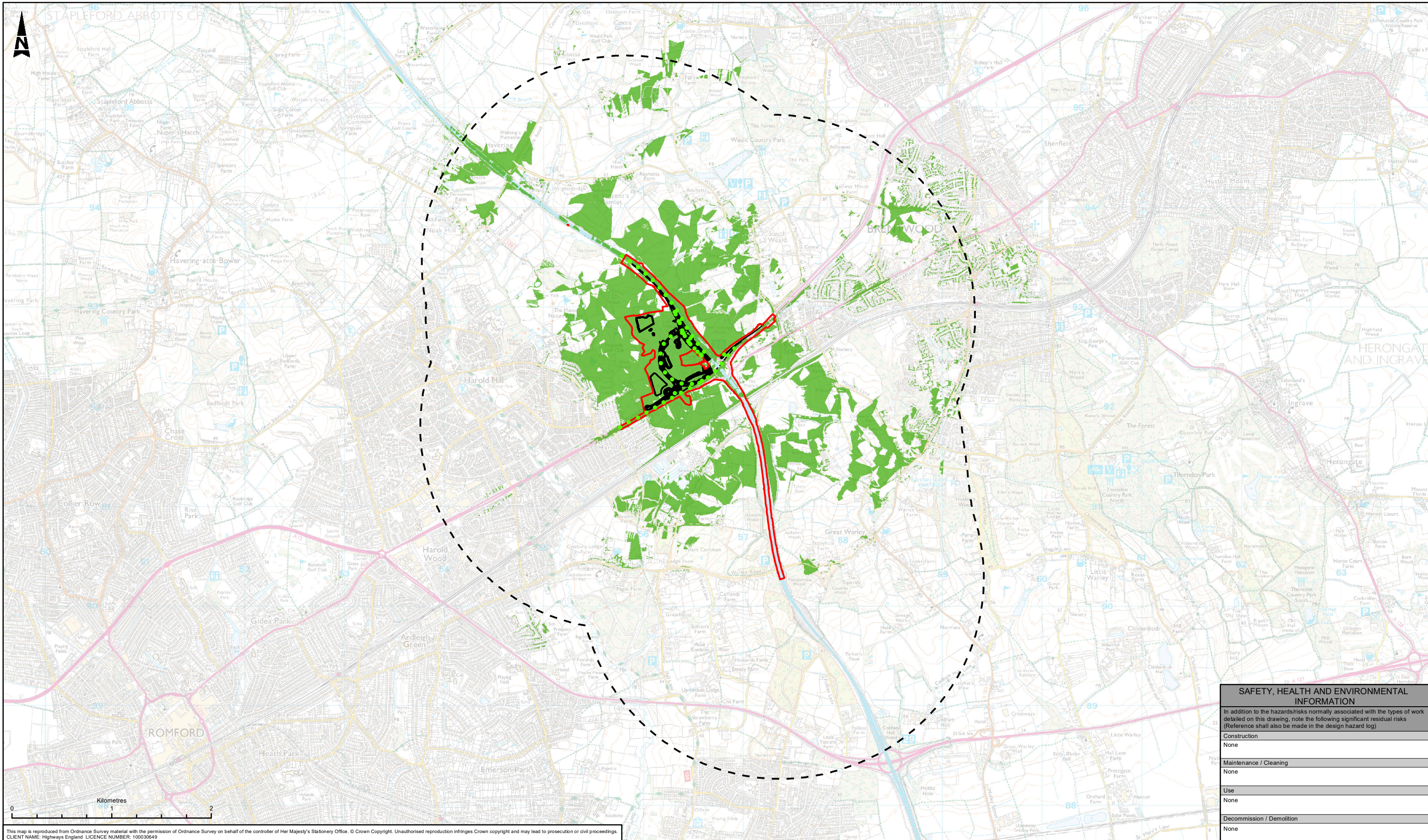
The Zone of Visual Influence (ZVI) shown is a theoretical indication of the area within which the proposed road alignment may be visible.

The ZVI is based on a 5 metre Digital Terrain Model (DTM). The DTM does not consider the surface detail of buildings, therefore 8m building heights have been added.

A height of 1.5m has been added to the surface to simulate assumed eye level, and a height of 4.5m has been added to the proposed road elevations to simulate the average height of HGV traffic above the proposed road.

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 9.5          ZONE OF VISUAL INFLUENCE (ZVI)          ASSESSMENT - WINTER SCENARIO</b></p>		<p>Drawing Number          Project: HE551519 - ATK - ELS          Originator: XX - GS - GI - 000012          Volume: ---</p>
<p>Original Size: A3          Scale: 1:35,000          Project Ref. No.: ---          Issue Date: 18/03/20</p>		<p>Sheet: 1 of 1          Rev: C01</p>		<p>Location: ---          Type: ---          Role: ---          Number: ---</p>



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**LEGEND**

- DCO Boundary
- 2km Study Area
- Indicative Extent of Surrounding Area From Which Views to the Proposed Scheme May Be Visible (Summer Scenario)
- Proposed Scheme Alignment
- Indicative Observer Points at 100m Intervals Along Proposed Alignment

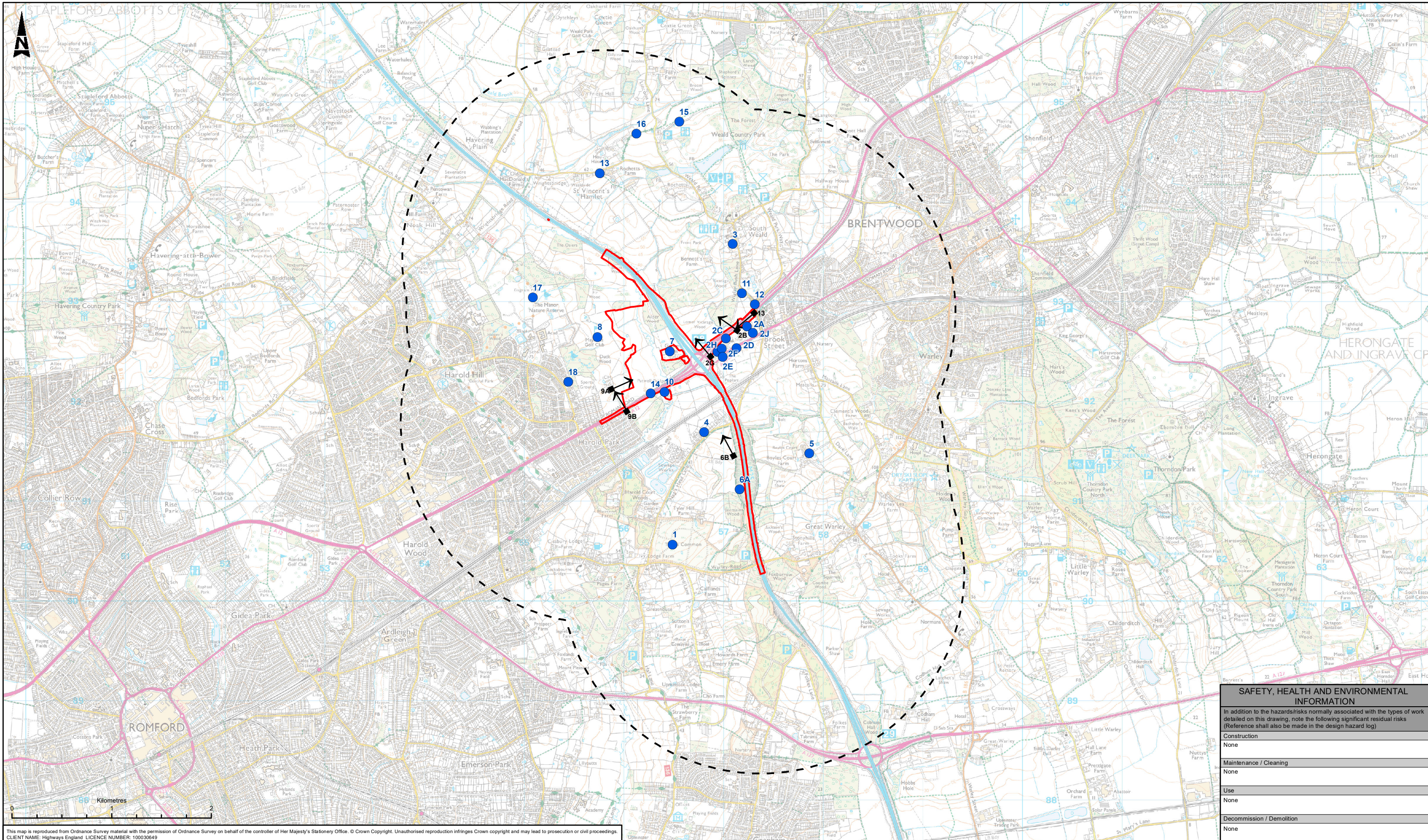
**Notes**  
 The Zone of Visual Influence (ZVI) shown is a theoretical indication of the area within which the proposed road alignment may be visible.

The ZVI is based on a 5 metre Digital Terrain Model (DTM). The DTM does not consider the surface detail of vegetation and buildings, therefore 8m building heights have been added, and to simulate summer conditions woodland areas have a height of 5m (based on UK BAP Broad Habitats), and mitigation planting a height of 5m.

A height of 1.5m has been added to the surface to simulate assumed eye level, and a height of 4.5m has been added to the proposed road elevations to simulate the average height of HGV traffic above the proposed road.

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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Drawing Title		FIGURE 9.6 ZONE OF VISUAL INFLUENCE (ZVI) ASSESSMENT - SUMMER SCENARIO																																																
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

- LEGEND**
- DCO Scheme Boundary
  - 2km Study Area
  - Viewpoint Locations
  - Visual Receptor

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

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Project Title	M25 Junction 28
Drawing Title	FIGURE 9.7 VIEWPOINT LOCATION PLAN
Drawing Number	Project: HE551519 - ATK - ELS Originator: XX - GS - GI - 000005 Volume: 1 of 1
Original Size: A3	Scale: 1:35,000
Project Ref. No.:	18/03/20
Sheet:	1 of 1
Rev:	C02



Viewpoint 2B: Users of Holiday Inn swimming pool and western conference rooms at Brook Street (A1023) to the east of Junction 28  
(WINTER)



Viewpoint 2B: Users of Holiday Inn swimming pool and western conference rooms at Brook Street (A1023) to the east of Junction 28  
(SUMMER)

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

The locations of these photographs are shown on Viewpoint Location Plan

Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		M25 Junction 28	
Description		ATKINS		Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL		Drawing Title	
Member of the SNC-Lavalin Group		Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055 www.atkinsglobal.com		Copyright © Atkins Limited (2020)		FIGURE 9.8 PANORAMIC PHOTOGRAPHS & VIEWPOINTS (SHEET 1 OF 6)	
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PUBLISHED		highways england		HE551519 - ATK - ELS		Volume	
Status		Location		Type		Role	
A1		A3		N/A		---	
Revision		Scale		Project Ref. No.		Sheet	
C02		1 of 1		XX - GS - GI - 000006		Number	
Drawn		Rev:		C02		Rev:	
FM		C02					
Checked							
JH							
Reviewed							
EM							
Authorised							
PG							
Issue Date							
17/03/20							



Viewpoint 2G: Users of Shell Garage along Roman Road/A1023 to the east of Junction 28  
(WINTER)



Viewpoint 2G: Users of Shell Garage along Roman Road/A1023 to the east of Junction 28  
(SUMMER)

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

The locations of these photographs are shown on Viewpoint Location Plan

Description		Drawing Suitability		Status		Project Title	
Status		Revision		Drawn		Checked	
Reviewed		Authorised		Issue Date		A1	
Description		Description		Description		Description	
Status		Revision		Drawn		Checked	
Reviewed		Authorised		Issue Date		M25 Junction 28	
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Status		Revision		Drawn		Checked	
Reviewed		Authorised		Issue Date		Drawing Title	
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Status		Revision		Drawn		Checked	
Reviewed		Authorised		Issue Date		HE551519 - ATK - ELS	
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Reviewed		Authorised		Issue Date		XX - GS - GI - 000007	
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Status		Revision		Drawn		Volume	
Reviewed		Authorised		Issue Date		HE551519 - ATK - ELS	
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Viewpoint 6B: Users of Bridleway, section along the M25 corridor south of the junction  
(WINTER)



Viewpoint 6B: Users of Bridleway, section along the M25 corridor south of the junction  
(SUMMER)

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

The locations of these photographs are shown on Viewpoint Location Plan

Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		M25 Junction 28	
Description		ATKINS		Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL		Drawing Title	
Member of the SNC-Lavalin Group		Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055 www.atkinsglobal.com		Copyright © Atkins Limited (2020)		FIGURE 9.10 PANORAMIC PHOTOGRAPHS & VIEWPOINTS (SHEET 3 OF 6)	
Description		Client		Project		Originator	
PUBLISHED		highways england		HE551519 - ATK - ELS		Volume	
Status		Location		Type		Role	
A1		A3		N/A		XX - GS - GI - 000008	
Revision		Scale		Ref. No.		Sheet	
C02		N/A		---		1 of 1	
Drawn		Number		Rev.		C02	
FM							
Checked							
JH							
Reviewed							
EM							
Authorised							
PG							
Issue Date							
17/03/20							



Viewpoint 9A: Residents of Maylands cottages  
(WINTER)



Viewpoint 9A: Residents of Maylands cottages  
(SUMMER)

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

The locations of these photographs are shown on Viewpoint Location Plan

Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		M25 Junction 28	
Description		ATKINS		Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL		Drawing Title	
Member of the SNC-Lavalin Group		Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055		www.atkinsglobal.com		FIGURE 9.11 PANORAMIC PHOTOGRAPHS & VIEWPOINTS (SHEET 4 OF 6)	
Description		Client		Project		Originator	
PUBLISHED		highways england		HE551519 - ATK - ELS		Volume	
Description		Project		Type		Role	
A1		XX - GS - GI - 000008		---		Number	
Original Size: A3		Scale: N/A		Project Ref. No.:		Sheet: 1 of 1	
						Rev: C02	



Viewpoint 9B: Residents of Harold's Park  
(WINTER)



Viewpoint 9B: Residents of Harold's Park  
(SUMMER)

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

The locations of these photographs are shown on Viewpoint Location Plan

Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		M25 Junction 28	
Description		ATKINS		Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL		Drawing Title	
Member of the SNC-Lavalin Group		Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055		www.atkinsglobal.com		FIGURE 9.12 PANORAMIC PHOTOGRAPHS & VIEWPOINTS (SHEET 5 OF 6)	
Description		Copyright © Atkins Limited (2020)		Client		Drawing Number	
highways england		Project		Originator		Volume	
HE551519 - ATK - ELS		XX - GS - GI - 000010		Role		Number	
Original Size: A3		Scale: N/A		Project Ref. No: ---		Sheet: 1 of 1	
Revision: C02		Drawn: FM		Checked: JH		Reviewed: EM	
Authorized: PG		Issue Date: 17/03/20		Rev: C02			





Viewpoint 13: Users of NMU's (Non-Motorised User) along Wigley Bush Lane to the east of Junction 28  
(WINTER)



Viewpoint 13: Users of NMU's (Non-Motorised User) along Wigley Bush Lane to the east of Junction 28  
(SUMMER)

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

The locations of these photographs are shown on Viewpoint Location Plan

Description		Drawing Suitability	Status	Project Title																												
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																										
Description		 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		Drawing Title																												
Description				FIGURE 9.13 PANORAMIC PHOTOGRAPHS & VIEWPOINTS (SHEET 6 OF 6)																												
Description		Client		Drawing Number																												
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																										
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HE551519 - ATK - ELS	XX - GS - GI - 000011																															
Location	Type	Role	Number																													
Description		<table border="1"> <tr><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>A1</td><td>C02</td><td>FM</td><td>JH</td><td>EM</td><td>PG</td><td>18/03/20</td></tr> </table>		Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	A1	C02	FM	JH	EM	PG	18/03/20	<table border="1"> <tr><th>Original Size</th><th>Scale</th><th>Project Ref. No.</th><th>Sheet</th><th>Number</th><th>Rev.</th></tr> <tr><td>A3</td><td>N/A</td><td>---</td><td>1 of 1</td><td>C02</td><td></td></tr> </table>	Original Size	Scale	Project Ref. No.	Sheet	Number	Rev.	A3	N/A	---	1 of 1	C02			
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A1	C02	FM	JH	EM	PG	18/03/20																										
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A3	N/A	---	1 of 1	C02																												

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