

# DRAFT

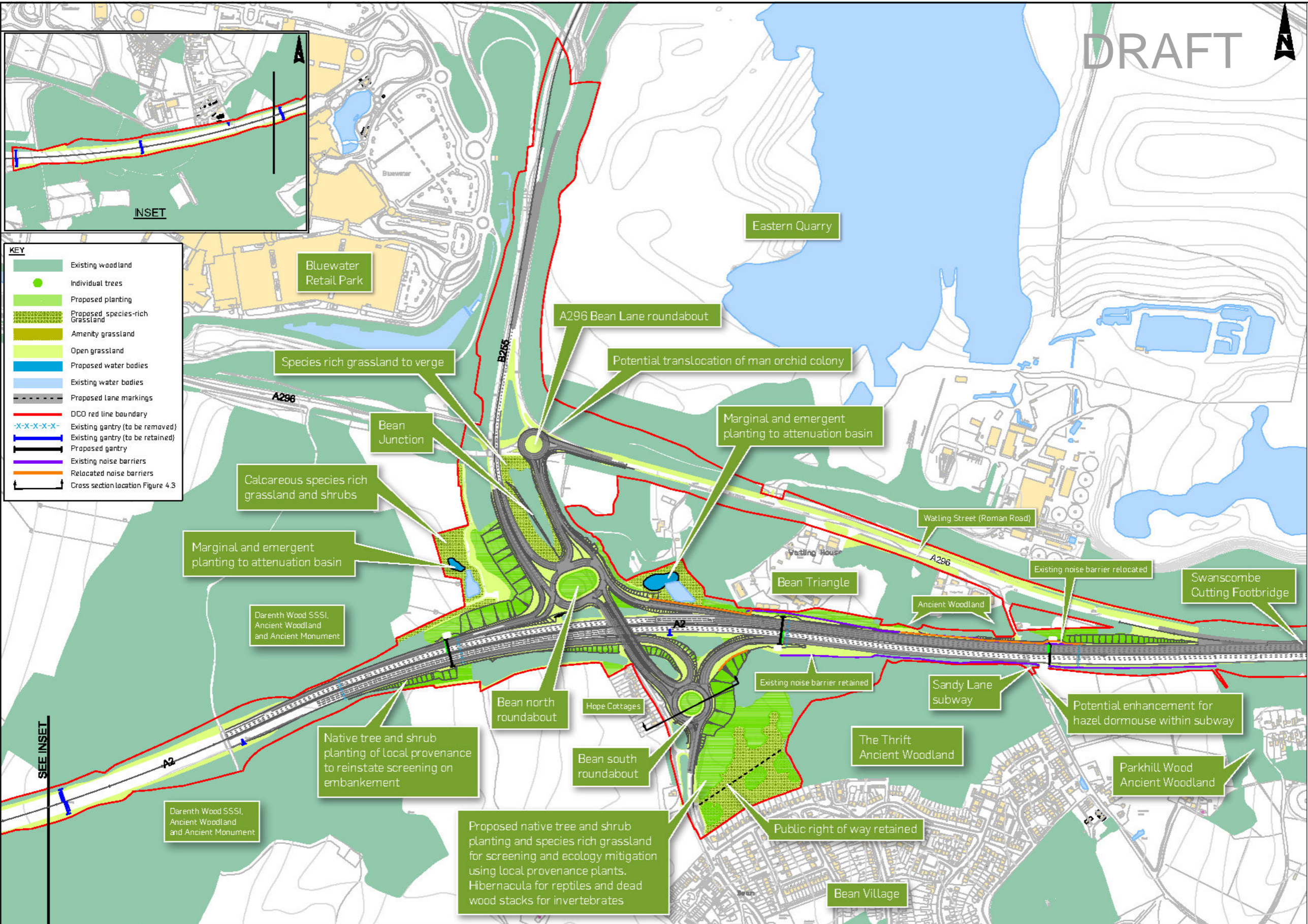


**KEY**

- Existing woodland
- Individual trees
- Proposed planting
- Proposed species-rich Grassland
- Amenity grassland
- Open grassland
- Proposed water bodies
- Existing water bodies
- Proposed lane markings
- DCO red line boundary
- Existing gantry (to be removed)
- Existing gantry (to be retained)
- Proposed gantry
- Existing noise barriers
- Relocated noise barriers

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Description</td> <td style="width: 10%;">Status</td> <td style="width: 10%;">Revision</td> <td style="width: 10%;">Drawn</td> <td style="width: 10%;">Checked</td> <td style="width: 10%;">Reviewed</td> <td style="width: 10%;">Authorised</td> <td style="width: 10%;">Issue Date</td> </tr> <tr> <td>FOR INFORMATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	FOR INFORMATION								<p style="text-align: center;"><b>FOR INFORMATION</b></p> <p style="text-align: center; font-size: 24px; font-weight: bold;">S2</p> <p style="text-align: center; font-size: 24px; font-weight: bold;">ATKINS</p> <p style="text-align: center; font-size: 10px;">Member of the SNC-Lavalin Group</p> <p style="text-align: center; font-size: 8px;">Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL</p> <p style="text-align: center; font-size: 8px;">Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055</p> <p style="text-align: center; font-size: 8px;">Copyright © Atkins Limited (2017)    www.atkinsglobal.com</p>	<p style="text-align: center;">ROAD IMPROVEMENT PROGRAMME A2 Bean to Ebbsfleet</p> <p style="text-align: center;">Drawing Title</p> <p style="text-align: center; font-weight: bold;">FIGURE 2.3 DRAFT PRELIMINARY OUTLINE ENVIRONMENTAL DESIGN EBBSFLEET JUNCTION</p> <p style="text-align: center;">Drawing Number</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <tr> <td>Project</td> <td>Originator</td> <td>Volume</td> </tr> <tr> <td>HE543917 - ATK - EGN</td> <td>XX - GS - GI - 000003</td> <td></td> </tr> <tr> <td>Location</td> <td>Type</td> <td>Role</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>Original Size: A3</td> <td>Scale: N/A</td> <td>Project Ref. No: --</td> </tr> <tr> <td>Sheet: 1 of 1</td> <td>Number: P01</td> <td>Rev: --</td> </tr> </table>	Project	Originator	Volume	HE543917 - ATK - EGN	XX - GS - GI - 000003		Location	Type	Role				Original Size: A3	Scale: N/A	Project Ref. No: --	Sheet: 1 of 1	Number: P01	Rev: --
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																													
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Location	Type	Role																																		
Original Size: A3	Scale: N/A	Project Ref. No: --																																		
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- Existing noise barriers
- Relocated noise barriers
- Cross section location Figure 4.3

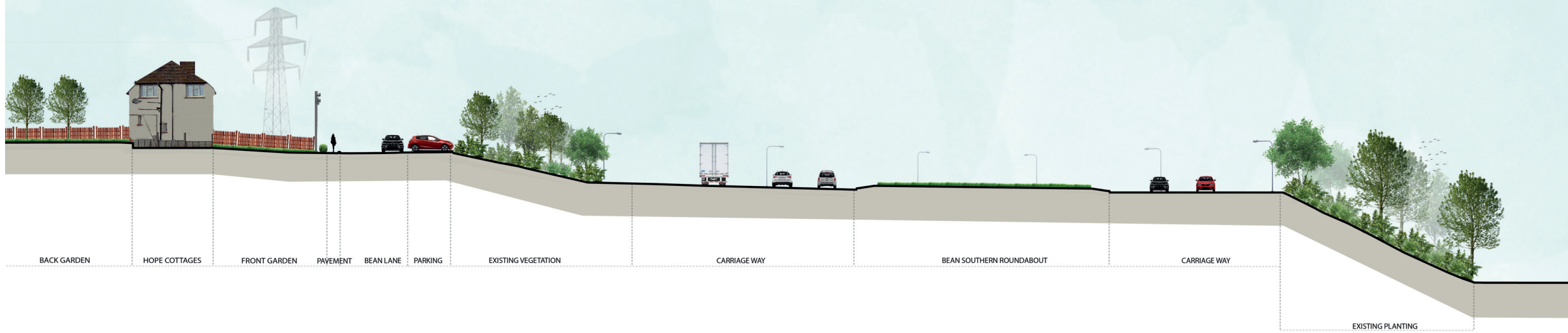
SEE INSET

Description		Drawing Suitability		Status		ROAD IMPROVEMENT PROGRAMME A2 Bean to Ebbfleet	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	<p><b>FOR INFORMATION</b></p> <p><b>ATKINS</b></p> <p>Member of the SNC-Lavalin Group</p> <p>Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL</p> <p>Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055</p> <p>Copyright © Atkins Limited (2017) www.atkinsglobal.com</p> <p>Client</p> <p><b>highways england</b></p>
Description		Drawing Suitability		Status		Drawing Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	<p><b>FIGURE 2.4</b></p> <p><b>DRAFT PRELIMINARY OUTLINE ENVIRONMENTAL DESIGN</b></p> <p><b>BEAN JUNCTION</b></p>
Description		Drawing Suitability		Status		Drawing Number	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	<p>Project   Originator   Volume</p> <p>HE543917 - ATK - EGN</p> <p>XX - GS - GI - 000004</p> <p>Original Location Type Role Number Rev</p> <p>Size: A3 Scale N/A Project Ref. No: --- Sheet: 1 of 1 Rev: P01</p>
Description		Drawing Suitability		Status		Drawing Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	<p>Project   Originator   Volume</p> <p>HE543917 - ATK - EGN</p> <p>XX - GS - GI - 000004</p> <p>Original Location Type Role Number Rev</p> <p>Size: A3 Scale N/A Project Ref. No: --- Sheet: 1 of 1 Rev: P01</p>

DO NOT SCALE

100  
0  
10  
Millimetres

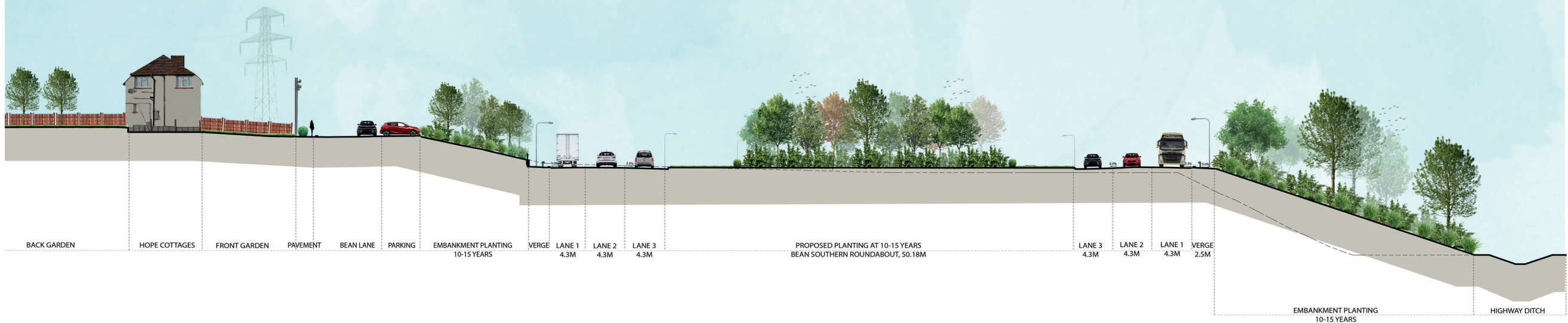
### BEAN SOUTHERN ROUNDABOUT (EXISTING)



### BEAN SOUTHERN ROUNDABOUT (PROPOSED)



### BEAN SOUTHERN ROUNDABOUT (RELOCATED OPTION)

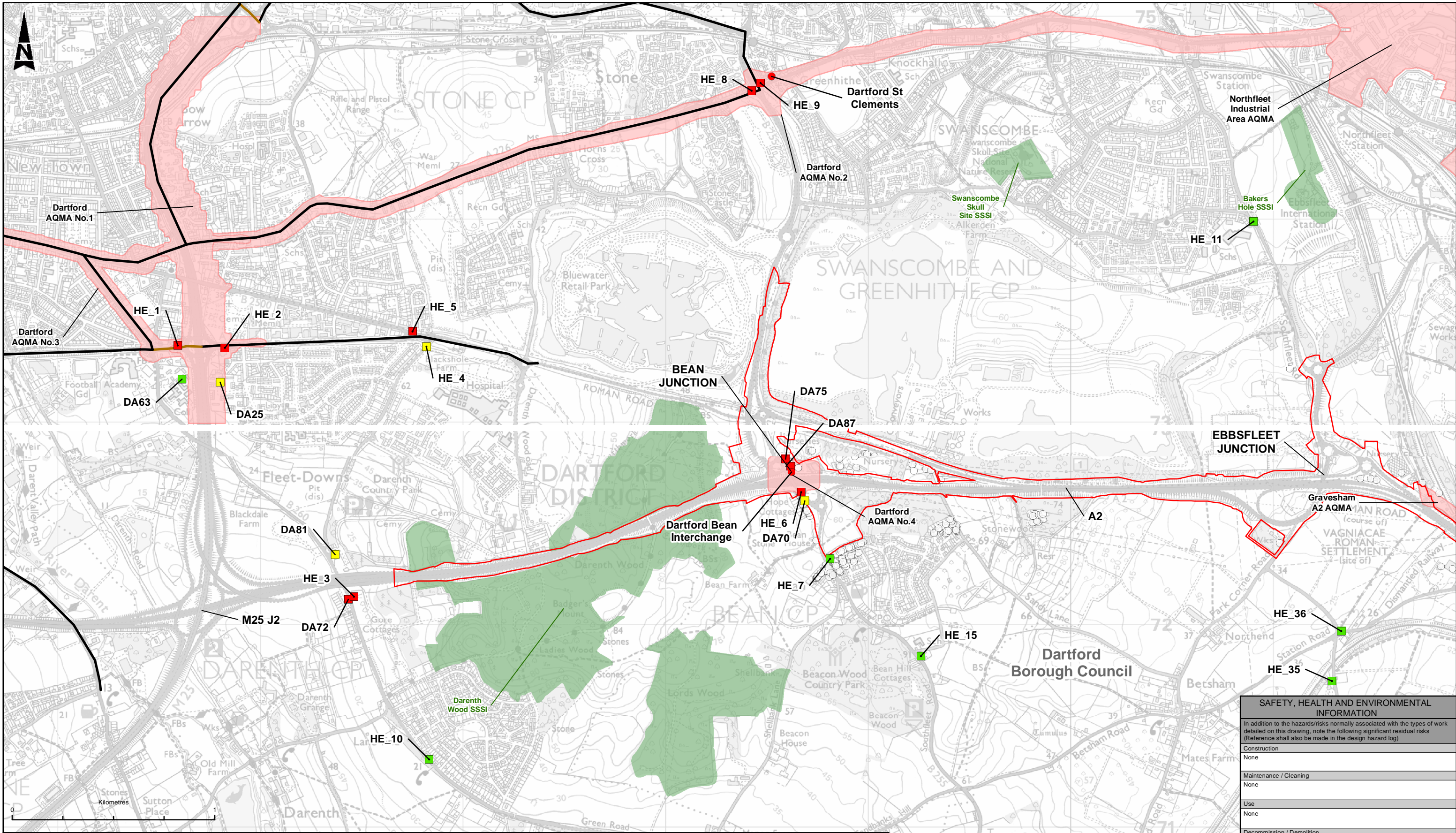


Description		Drawing Suitability		Status		Project Title					
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Initial non-contractual code	S0	A2 Bean and Ebbsfleet Junction Improvement		
Description		Drawing Title		Project		Drawing Number		Originator		Volume	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	<b>ATKINS</b> Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL Member of the SNC-Lavalin Group		FIGURE 2.5 CROSS SECTIONS THROUGH BEAN SOUTHERN ROUNDABOUT COMPARING OPTIONS WITH BASELINE		HE543917 - ATK - EGN -
Description		Project		Drawing Number		Originator		Volume		Drawing Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Copyright © Atkins Limited (2017)		Working on behalf of		XX - DR - LL - 003006
Description		Client		Project		Drawing Number		Originator		Volume	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	<b>highways england</b>		HE543917 - ATK - EGN -		XX - DR - LL - 003006
Description		Location		Drawing Number		Originator		Volume		Drawing Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Project Ref. No. 5158159		Sheet 1 of 1		Rev: P01.1
S0	P01.1	---	---	---	---	---	Scale: 1:1		Project Ref. No. 5158159		Sheet 1 of 1

### **3. Chapter 3 Assessment of Alternatives (No Figures)**

## **4. Chapter 4 Environmental Assessment Methodology (No Figures)**

## 5. Chapter 5 Air Quality Figures



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**LEGEND**

	DCO Boundary
	Local Authority Boundary
	Designated Ecological Sites
	Air Quality Management Area
	Sensitive Human Health Receptors
<b>DEFRA PCM Roadside NO<sub>2</sub> Concentrations (2015)</b>	
	< 40 µg/m <sup>3</sup>
	> 40 µg/m <sup>3</sup>

**Continuous Monitoring Sites (2016)**

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>

**HE Diffusion Tube Monitoring Sites (2016)**

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>

**LA Diffusion Tube Monitoring Sites (2016)**

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	FOR INFORMATION						Status	Project Title
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	S2	ROAD IMPROVEMENT PROGRAMME A2 Bean to Ebbfleet
Description	FOR INFORMATION						Status	Drawing Title
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	S2	FIGURE 5.2 AIR QUALITY CONSTRAINTS SHEET 1 OF 2
Description	FOR INFORMATION						Status	Drawing Number
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	S2	HE543917 - ATK - EAQ XX - GS - GI - 000004
Description	FOR INFORMATION						Status	Drawing Number
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	S2	HE543917 - ATK - EAQ XX - GS - GI - 000004
Description	FOR INFORMATION						Status	Drawing Number
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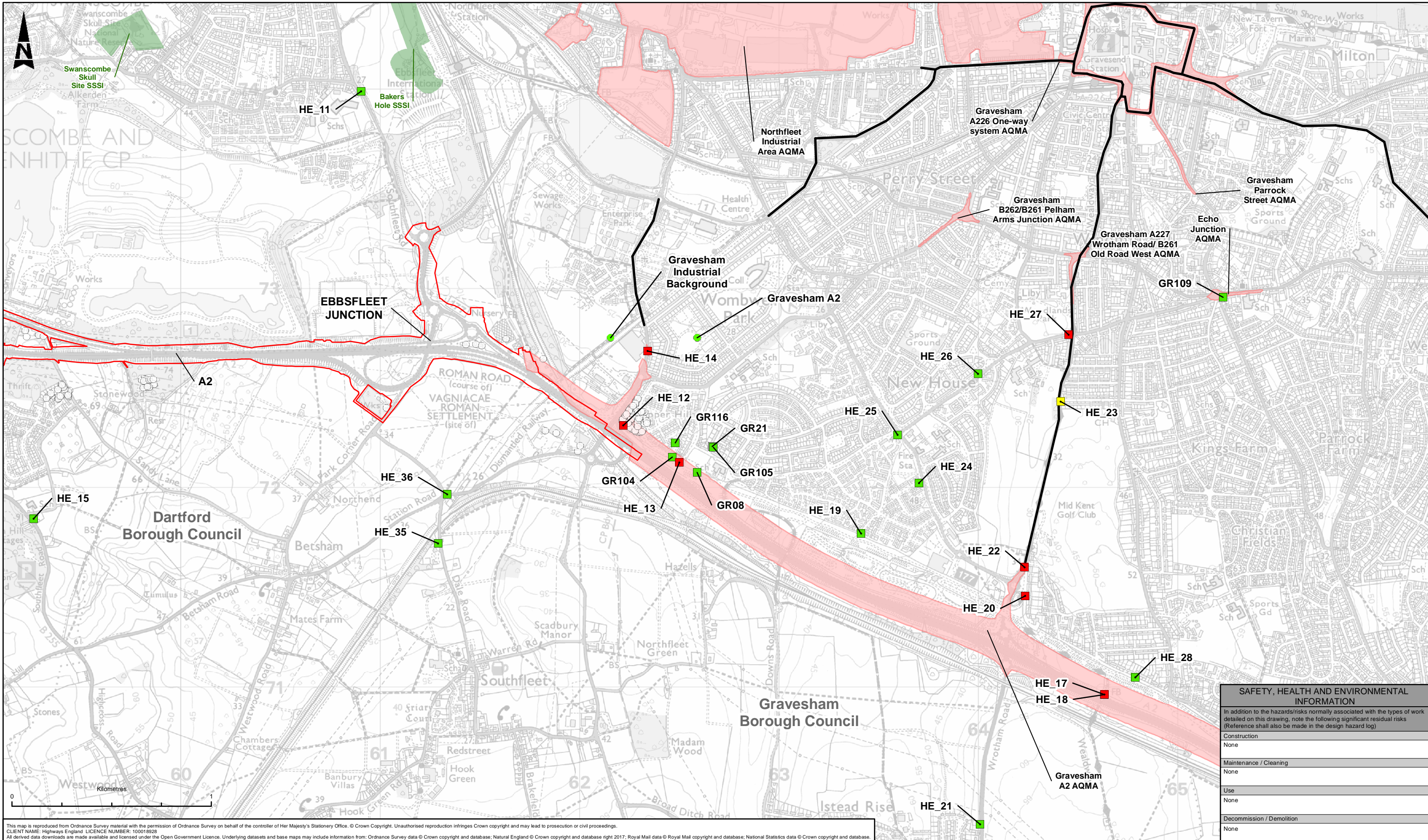
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**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

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	HE543917 - ATK - EAQ	Originator	XX - GS - GI	Volume	000004
Location	A3	Type	1:17,500	Sheet	1 of 1
Scale	1:17,500	Project Ref. No.	---	Rev.	P01



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

LEGEND		Continuous Monitoring Sites (2016)		HE Diffusion Tube Monitoring Sites (2016)		LA Diffusion Tube Monitoring Sites (2016)	
	DCO Boundary		No Data		No data		No data
	Local Authority Boundary		<math>< 36 \mu\text{g}/\text{m}^3</math>		<math>< 36 \mu\text{g}/\text{m}^3</math>		<math>< 36 \mu\text{g}/\text{m}^3</math>
	Designated Ecological Sites		<math>36 \text{ to } 40 \mu\text{g}/\text{m}^3</math>		<math>36 \text{ to } 40 \mu\text{g}/\text{m}^3</math>		<math>36 \text{ to } 40 \mu\text{g}/\text{m}^3</math>
	Air Quality Management Area		<math>> 40 \mu\text{g}/\text{m}^3</math>		<math>> 40 \mu\text{g}/\text{m}^3</math>		<math>> 40 \mu\text{g}/\text{m}^3</math>
	Sensitive Human Health Receptors						
DEFRA PCM Roadside NO <sub>2</sub> Concentrations (2015)							
	<math>< 40 \mu\text{g}/\text{m}^3</math>						
	<math>> 40 \mu\text{g}/\text{m}^3</math>						

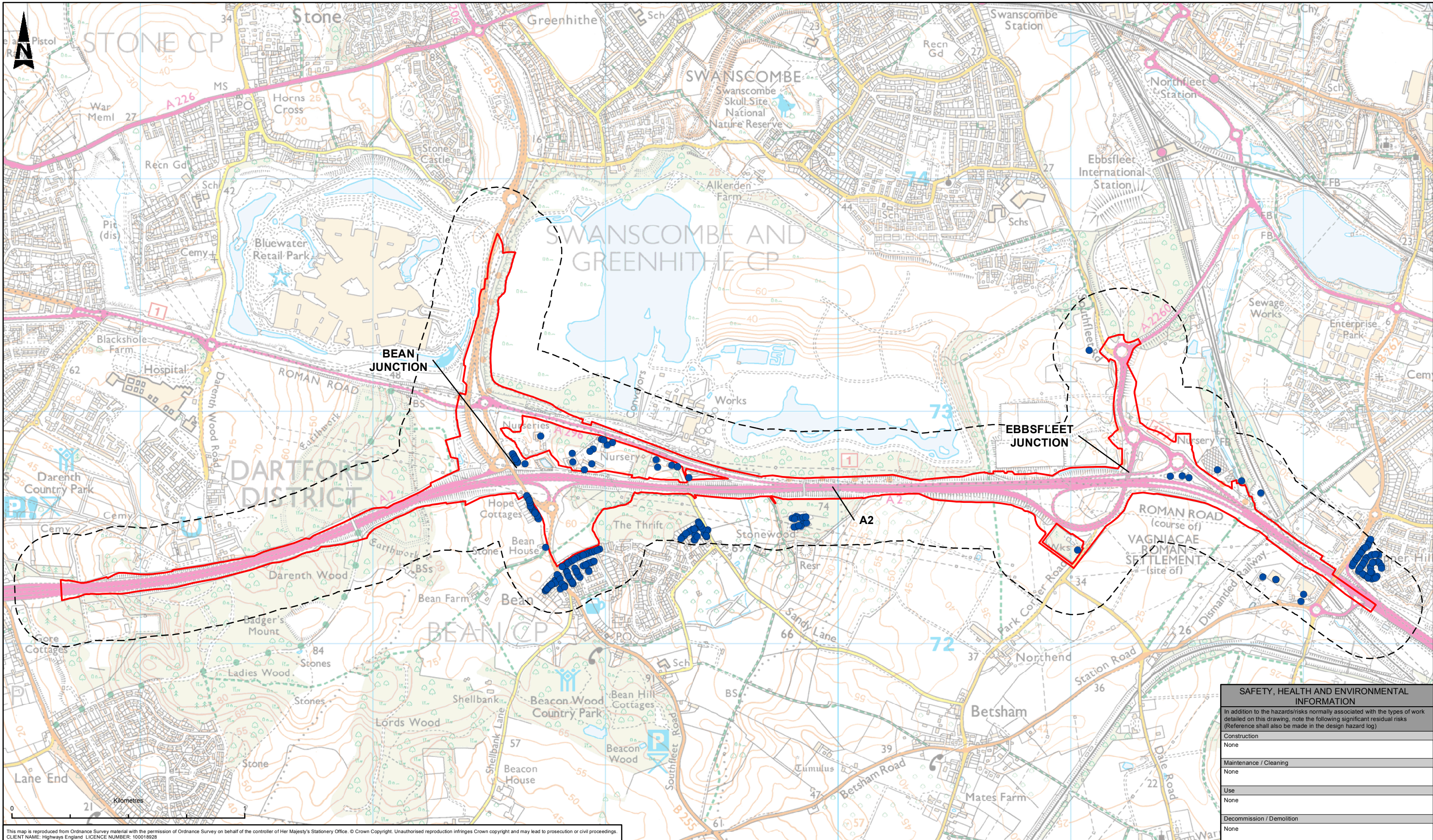
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
FOR INFORMATION	S2	P01	SD	LB	AMB	CH	08/02/18

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Project Title	ROAD IMPROVEMENT PROGRAMME A2 Bean to Ebbsfleet		
Drawing Title	FIGURE 5.2 AIR QUALITY CONSTRAINTS SHEET 2 OF 2		
Drawing Number	Project	Originator	Volume
	HE543917 - ATK - EAQ	XX - GS - GI - 000005	
Original Size: A3	Scale: 1:17,500	Project Ref. No.:	Sheet: 1 of 1
			Rev: P01





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**LEGEND**

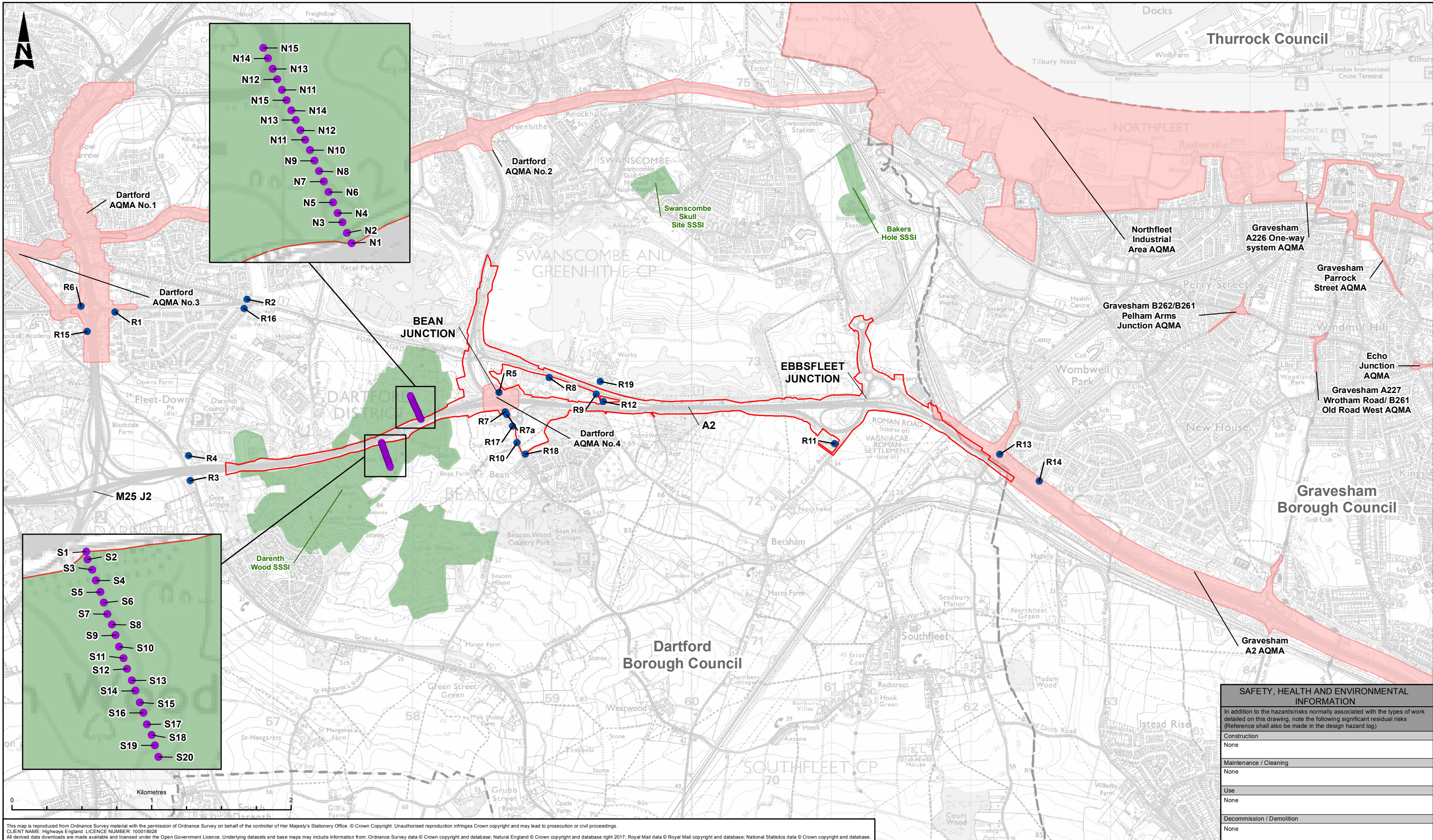
- DCO Boundary
- Area Potentially Affected by Construction Dust
- Receptors Sensitive to Construction Dust

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

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
FOR INFORMATION	S2	P01	SD	LB	AMB	CH	25/01/18

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Project Title		ROAD IMPROVEMENT PROGRAMME A2 Bean to Ebbsfleet	
Drawing Title		FIGURE 5.3 STUDY AREA FOR CONSTRUCTION DUST ASSESSMENT	
Drawing Number		Project   Originator   Volume HE543917 - ATK - EAQ XX - GS - GI - 000002	
Original Size: A3	Scale: 1:15,000	Project Ref. No: ---	Sheet: 1 of 1 Rev: P01



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**LEGEND**

DCO Boundary	Selected Human Health Receptor
Local Authority Boundary	Ecological Receptor
Air Quality Management Area	
Designated Ecological Site	

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