

# M5 Junction 10 Improvements Scheme

## Environmental Statement Appendix 7.2 Hedgerow Survey TR010063 – APP 6.15

Regulation 5(2)(a)

Planning Act 2008

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

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# Infrastructure Planning Planning Act 2008

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

### M5 Junction 10 Improvements Scheme Development Consent Order 202[x]

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#### 6.15 Environmental Statement: Appendix 7.2 Hedgerow Survey

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<b>Planning Inspectorate Scheme Reference</b>	TR010063
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# Contents

Chapter	Page
<b>1. Introduction</b>	<b>5</b>
1.1. Terms of Reference	5
1.2. Legislation and Policy	5
<b>2. Methodology</b>	<b>6</b>
2.1. Introduction	6
2.2. Desk Study	6
2.3. Survey Area	6
2.4. Field Survey	6
2.5. Assessment	9
2.6. Limitations	9
<b>3. Results</b>	<b>11</b>
<b>4. Evaluation</b>	<b>12</b>
<b>Appendix A. Schedule of figures included in this application document</b>	<b>14</b>
<b>Appendix B. Summary of Findings against the Hedgerow Regulations 1997</b>	<b>20</b>
 <b>Tables</b>	
Table 1-1 - Summary of Relevant Legislation	5
Table B-1 Summary of Findings against the Hedgerow Regulations 1997 for 39 hedgerows within the Scheme Boundary	20

# 1. Introduction

## 1.1. Terms of Reference

- 1.1.1. Atkins, member of the SNC-Lavalin group, was commissioned by Gloucestershire County Council (GCC) to undertake hedgerow surveys to inform the Environmental Statement (ES) for the M5 Junction 10 Improvements Scheme (hereafter referred to as ‘the Scheme’).
- 1.1.2. The purpose of the hedgerow surveys was to determine whether hedgerows of ecological importance are present within the Scheme area; provide recommendations to enable compliance with legislation and policy; and, where appropriate, identify the need for avoidance, mitigation, compensation, or enhancement measures.
- 1.1.3. This Technical Appendix summarises the results of the hedgerow surveys undertaken, including the methods used, and provides an evaluation of the nature conservation value of hedgerows within the survey area.
- 1.1.4. This report provides factual information to support the ES, which will accompany the planning application for the Scheme.

## 1.2. Legislation and Policy

- 1.2.1. Relevant legislation in relation to hedgerows is provided in Table 1-1 below.

Table 1-1 - Summary of Relevant Legislation

Legislation/guidance	Further information
The Hedgerows Regulations 1997	These regulations introduce a requirement to notify the local planning authority of any proposed hedgerow removal unless covered by an exemption. The local authority may prohibit removal where a hedgerow meets the criteria for ‘important hedgerows’, as defined by the regulations.
Natural Environment and Rural Communities (NERC) Act 2006	<p>S.40 of the NERC Act 2006 (as amended by the Environment Act 2021) sets out the duty for public authorities to enhance biodiversity in England.</p> <p>Habitats and species of principal importance for the conservation of biodiversity identified by the Secretary of State for England, in consultation with Natural England, are referred to in S.41 of the NERC Act for England. The list, known as the ‘England Biodiversity List’, includes hedgerows as a habitat of principal importance (also referred to as a ‘priority habitat’). To qualify as a priority habitat, a hedgerow must consist predominantly (i.e. at least 80% cover) of at least one woody UK native species<sup>1</sup>.</p> <p>The England Biodiversity List is used as a guide for decision makers such as public bodies, including local and regional authorities, in implementing their duty under Section 40 of the NERC Act 2006 to have regard to the conservation of biodiversity in England when carrying out their normal functions.</p> <p>The England Biodiversity List priority habitats, including hedgerows, were previously listed in the UK Biodiversity Action Plan (BAP)<sup>2</sup>.</p>

<sup>1</sup> Maddock, A. (ed) (2008). *UK Biodiversity Action Plan Priority Habitat Descriptions – Hedgerows*. Online: <https://data.jncc.gov.uk/data/ca179c55-3e9d-4e95-abd9-4edb2347c3b6/UKBAP-BAPHabitats-17-Hedgerows.pdf>

<sup>2</sup> <https://jncc.gov.uk/our-work/uk-bap-priority-habitats/> [Accessed: 21/09/22]

## 2. Methodology

### 2.1. Introduction

- 2.1.1. Unless otherwise stated, the term ‘Scheme Boundary’ refers to the Order limits, excluding areas of the Order limits that extend approximately 2 km north and 2 km south of the Scheme alignment, along the M5. In these locations, the Scheme Boundary is the Scheme alignment. The Order limits and the Scheme alignment are shown on Figure 7-2A in Appendix A.
- 2.1.2. Within the areas of the Order limits that extend north and south of the Scheme alignment, the only works proposed are the installation of signs in discrete locations, which will require vegetation clearance of up to approximately 20 m<sup>2</sup> plus some minor trimming back of vegetation up to a distance of 180 m in front of the sign to ensure visibility. These signage locations can be micro sited to avoid/minimise ecological impacts. These small-scale works are consistent with routine highway maintenance works. The results of desk study and field surveys here would not have any bearing on the impact assessment for the Scheme, and these areas have been excluded from assessments to inform the ES. Pre-construction surveys of the discrete signage locations and working with the contractor to micro site locations where appropriate to avoid or minimise ecological impacts will be undertaken, and is considered to be proportionate.

### 2.2. Desk Study

- 2.2.1. Ordnance Survey (OS) mapping and aerial imagery provided on the MAGIC website<sup>3</sup> were reviewed to identify potentially important hedgerows within 200 m of the Scheme Boundary.

### 2.3. Survey Area

- 2.3.1. The extent of the hedgerow survey included all land within the Scheme Boundary and a 200 m buffer extending out in all directions from the Scheme Boundary where permitted and safe access allowed, hereafter referred to as the Hedgerow Survey Area, as shown on Figure 7-2A in Appendix A.
- 2.3.2. A Hedgerow Survey Area of 200 m from the Scheme Boundary is considered appropriate as this is in line with potential air quality impacts to habitats as a result of nitrogen deposition from road traffic emissions, and is the likely maximum distance over which there would be impacts to terrestrial habitats as a result of the Scheme. LA 105<sup>4</sup> states that designated habitats (European Sites, statutory and non-statutory designated nature conservation sites, nature improvement areas, areas of ancient woodland and veteran trees) within 200 m of the Affected Road Network (ARN) should be included in the air quality assessment. Although hedgerows do not fall into the category of ‘designated habitats’ as defined by LA 105, it is considered appropriate to maintain this zone of influence for consistency.

### 2.4. Field Survey

- 2.4.1. Surveys were led by suitably experienced ecologists who are members of the Chartered Institute of Ecology and Environmental Management (CIEEM) and considered competent

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<sup>3</sup> <https://magic.defra.gov.uk/MagicMap.aspx>

<sup>4</sup> Highways England (2019). Design Manual for Roads and Bridges. LA 105 Air Quality (formerly HA 207/07, IAN 170/12, IAN 174/13, IAN 175/13, part of IAN 185/15). (November 2019, version 0) Online:

to undertake Phase 1 habitat and hedgerow surveys in accordance with the CIEEM competency criteria<sup>5</sup>.

2.4.2. An extended Phase 1 habitat survey of accessible land within 200 m of the Scheme was undertaken by Atkins in May 2019, and in September 2019 once permitted access was available. These surveys identified and mapped habitats in accordance with the Phase 1 habitat survey methodology<sup>6</sup>, which included the recording of species-rich/species-poor hedgerows, intact/defunct hedgerows, and hedgerows with/without trees. An intact hedgerow is entire and more-or-less stockproof, whereas a defunct hedgerow has gaps and is no longer stockproof. The Phase 1 habitat survey methodology does not specify the criteria for species-rich/species-poor hedgerow and hedgerows with/without trees. Therefore, these definitions and the definitions of a hedgerow were taken from the Hedgerow Survey Handbook<sup>7</sup>:

- Hedgerow: any boundary line of trees or shrubs over 20 m long and less than 5 m wide at the base, provided that at one time the trees or shrubs were more or less continuous;
- Species-rich hedgerow: the structural species making up the 30 m section of hedgerow include at least five woody species that are either native somewhere in the UK, or which are archaeophytes;
- Species-poor hedgerow: the structural species making up the 30 m section of hedgerow is less than five woody species that are either native somewhere in the UK, or which are archaeophytes;
- With trees: tall trees less than 20 m apart over most of the hedgerow length; and
- Without trees: tall trees absent or more than 20 m apart over most of the hedgerow length.

2.4.3. An update extended Phase 1 habitat survey was undertaken in May and June 2022 to determine whether any of the baseline conditions had changed significantly since 2019. This survey focused on hedgerows within the Scheme Boundary.

2.4.4. Hedgerows identified as being potentially important, located either partially or entirely within the Scheme Boundary, were subject to a targeted hedgerow survey, where permitted and safe access allowed, to determine their importance in accordance with The Hedgerow Regulations 1997. This assessment only applies to those hedgerows within the Scheme Boundary, that would be directly impacted by the Scheme.

2.4.5. Targeted hedgerow surveys were undertaken between June and August 2019, in June 2021, and in May and June 2022. The survey methodology followed the guidelines provided in the Hedgerow Survey Handbook.

2.4.6. During the surveys, the following were recorded:

- General height and width of the hedgerow;
- Number and length of any gaps;
- Presence of banks, walls, and ditches;
- Presence, number and spacing of standard trees;
- Adjacent land use and proximity of ecological features such as ponds, woodlands or parallel hedgerows, and any connections to other hedgerows not evident on existing maps;
- The presence and abundance of woody species listed on Schedule 3 of The Hedgerows Regulations 1997 within representative 30 m sections;

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<sup>6</sup> Joint Nature Conservation Committee (2010). *Handbook for Phase 1 habitat survey – a technique for environmental audit*

<sup>7</sup> DEFRA (2007). *Hedgerow Survey Handbook. A standard procedure for local surveys in the UK*. DEFRA, London

- The presence and abundance of species listed on Schedule 2 of The Hedgerows Regulations 1997 within ground flora to a distance of 1 m from the hedgerow base;
- Evidence of past or recent management; and
- Evidence of use by animal species, in particular protected species<sup>8</sup>.

2.4.7. Following the survey, hedgerows were assessed against the wildlife criteria for determining 'important' hedgerows, as set out in Schedule 1, Part 2 of The Hedgerow Regulations 1997. The identified hedgerows were not assessed against the landscape, heritage and archaeology criteria as these criteria are not within the professional remit of ecology. As detailed within The Hedgerow Regulations 1997, in the UK a hedgerow is important for wildlife if it is at least 30 years old and:

- Contains protected species listed in the Wildlife and Countryside Act 1981 (as amended); or
- Contains species that are endangered, vulnerable and rare and identified in the British Red Data books; or
- Has at least seven qualifying woody species present; or
- Has at least six qualifying woody species and has associated with it at least three associated features (refer to Section 2.4.8); or
- Has at least six qualifying woody species that include one of the following: black poplar, large-leaved lime, small-leaved lime, wild service-tree; or
- Has at least five qualifying woody species and has associated with it at least four associated features (refer to Section 2.4.8); or
- Runs parallel with a bridleway, footpath or Byway Open to all Traffic (BOAT), has four or more qualifying woody species present and at least two associated features (refer to Section 2.4.8).

2.4.8. Associated features listed in Schedule 1, Part 2 of the Hedgerow Regulations include:

- A bank or wall which supports the hedgerow along at least one half of its length;
- Gaps which in aggregate do not exceed 10% of the length of the hedgerow;
- Where the length of the hedgerow does not exceed 50 m, at least one standard tree;
- Where the length of the hedgerow exceeds 50 m but does not exceed 100 m, at least two standard trees;
- Where the length of the hedgerow exceeds 100 m, such number of standard trees (within any part of its length) as would when averaged over its total length amount to at least one for each 50 m;
- At least three woodland species within 1 m, in any direction, of the outermost edges of the hedgerow;
- A ditch along at least one half of the length of the hedgerow;
- Connections scoring four points or more (a connection with another hedgerow scores one point and a connection with a pond or a woodland in which the majority of trees are broad-leaved trees scores two points; and a hedgerow is connected with something not only if it meets it but also if it has a point within 10 m of it and would meet it if the line of the hedgerow continued); and
- A parallel hedge within 15 m of the hedgerow.

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<sup>8</sup> The results of other protected species undertaken to inform the ES were also reviewed.



- 2.4.9. Where the age of hedgerows was not known, a precautionary approach was taken to the assessment of 'important' hedgerows based on professional judgement. All well-established mature hedgerows were assumed to be at least 30 years old unless there was evidence or knowledge that would cast doubt on this.

## 2.5. Assessment

- 2.5.1. The hedgerow resource has been valued in a geographical context following the framework provided in LA 108<sup>9</sup>. The evaluation is based on the information gathered from the desk study and field surveys, using a combination of professional judgement and accepted criteria<sup>10</sup> (e.g. diversity, rarity, and naturalness).
- 2.5.2. For those hedgerows which will be directly impacted by the Scheme, following the field survey the results were assessed against the wildlife and landscape criteria for determining 'important' hedgerows set out in Schedule 1, Part 2 of The Hedgerow Regulations 1997.

## 2.6. Limitations

- 2.6.1. Ecological surveys are limited by factors which affect the presence of plants and appearance of habitats, such as time of year, recent management (e.g. flailing) and the weather. Therefore, the surveys have not produced a complete list of plants and the absence of any particular species should not be taken as conclusive proof that the species is not present or that it will not be present in the future.
- 2.6.2. The optimal period for hedgerow survey is June-July, to capture woody species in flower and spring ground flora<sup>11</sup>. Whilst the majority of hedgerow surveys were undertaken during this optimum period, a small number were undertaken in August. Despite being undertaken outside of the optimum period, the surveys were only slightly outside of it, and still at an appropriate time of year for botanical identification. Therefore, it is considered unlikely that this would have resulted in misidentification or omission of flora and is not considered a significant constraint to the hedgerow surveys.
- 2.6.3. Of the 152 hedgerows identified for survey within the Hedgerow Survey Area, 23 were not surveyed, as permitted access was not available. In these instances, attempts were made to survey the hedgerow from adjacent land parcels. Alternatively, existing Phase 1 habitat survey data and/or aerial imagery were used to classify these hedgerows. Where it was not possible to classify hedgerows with confidence (this was the case for 16 hedgerows), they have been identified as 'Hedgerow – No Access' on Figure 7-2A. None of these will be impacted by the Scheme. A total of 89% of hedgerows within the Hedgerow Survey Area were either surveyed, or it was possible to accurately classify them based on observations from adjacent land parcels, previous survey data or aerial imagery. The survey coverage is considered sufficient to enable a robust assessment of the value of the hedgerow resource within the Hedgerow Survey Area. Given that it was possible to survey all hedgerows within the Scheme Boundary, this has also enabled a robust assessment of impacts to be undertaken within the Biodiversity Chapter (application document TR010063 – APP 6.5).
- 2.6.4. Only one 30 m section of hedgerows H195, H196, and HT46 was surveyed, even though the hedgerows are over 100 m in length and, therefore, two 30 m sections should have been surveyed. Likewise, only two 30 m sections of the hedgerow H160 were surveyed, even though the hedgerow is over 200 m in length and, therefore, three 30 m sections should have been surveyed. The reason for this was the surveyors under-estimated the lengths during the survey. However, all woody species within the entire length of the hedgerows were recorded and all four of these hedgerows are species-poor, with no more

<sup>9</sup> Highways England. March 2020. LA 108 Biodiversity [Online] Available from: [https://www.standardsforhighways.co.uk/dmrb/search?discipline=SUSTAINABILITY\\_AND\\_ENVIRONMENT](https://www.standardsforhighways.co.uk/dmrb/search?discipline=SUSTAINABILITY_AND_ENVIRONMENT)

<sup>10</sup> Set out in Ratcliffe, D.A (1977). A Nature Conservation Review. Cambridge University Press.

<sup>11</sup> DEFRA (2007). Hedgerow Survey Handbook. A standard procedure for local surveys in the UK. DEFRA, London.

than three woody species in the whole hedgerow, except H160 which had five woody species in the whole hedgerow. Therefore, this is not considered to have resulted in under-estimating the importance of these hedgerows.

- 2.6.5. Overall, the results of this survey work are considered sufficient to inform an ecological assessment of the hedgerow resource relevant to the Scheme.

## 3. Results

- 3.1.1. A total of 152 hedgerows were identified from aerial imagery and OS maps within 200 m of the Scheme Boundary (the Hedgerow Survey Area). Of these, 23 were not surveyed as access was not permitted. However, seven of these were confidently classified as species-poor hedgerows based on observations from adjacent land parcels, previous survey data or aerial imagery, (see Section 2.5 Limitations above for further details). The remaining 16 hedgerows were not classified to the Phase 1 criteria and are marked as 'Hedgerow – No Access' on Figure 7-2A.
- 3.1.2. A total of 129 hedgerows were surveyed.
- 3.1.3. A total of 14 hedgerows were found to be species-rich, i.e. an average of at least five woody species per 30 m length of a hedgerow. These are: H49, H87, H89, H94, H115, H147, H150, H158, H171, H177, HT10, HT20, HT32, and HT35. The remaining 115 hedgerows were found to be species-poor. The locations and classification of the hedgerows within the Hedgerow Survey Area are shown in Figure 7-2A.
- 3.1.4. The most abundant species included hawthorn (*Crataegus monogyna*) and blackthorn (*Prunus spinosa*). Other species frequently recorded included field maple (*Acer campestre*), elder (*Sambucus nigra*), dog rose (*Rosa canina*), wild privet (*Ligustrum vulgare*), butterfly-bush (*Buddleja davidii*), hazel (*Corylus avellana*), elm (*Ulmus* sp.), dogwood (*Cornus sanguinea*), apple (*Malus domestica*) and ash (*Fraxinus excelsior*).
- 3.1.5. Thirty-nine hedgerows were present within the Scheme Boundary that would be directly impacted by the Scheme, all of which were assessed against the wildlife and landscape criteria for determining 'important' hedgerows set out in Schedule 1, Part 2 of The Hedgerow Regulations 1997. Fourteen hedgerows (H48, H49, H87, H90, H177, H199a, H200, H207, H208, HT10, HT18, HT44, HT45, and HT46) are 'important' as per The Hedgerow Regulations 1997 (12 of these are 'important' as evidence of dormouse has been confirmed (one hedgerow) or the presence of dormouse is assumed (11 hedgerows)). The survey results in relation to these hedgerows are detailed in Table B-1 in Appendix B.

## 4. Evaluation

- 4.1.1. A total of 152 hedgerows were identified within the Hedgerow Survey Area. A total of 129 hedgerows were surveyed. Fourteen were found to be species-rich and 115 were species-poor. Twenty-three hedgerows could not be surveyed due to access restrictions. However, it was possible to classify seven of these as species-poor hedgerows based on observations from adjacent land parcels, previous survey data or aerial imagery.
- 4.1.2. Of the 129 hedgerows surveyed, 121 were found to consist predominantly (i.e. 80% or more cover) of at least one woody UK native species and, therefore, qualify as a priority habitat<sup>12</sup>.
- 4.1.3. Fourteen hedgerows within the Hedgerow Survey Area (H48, H49, H87, H90, H177, H199a, H200, H207, H208, HT10, HT18, HT44, HT45, and HT46) are 'Important', as defined by the wildlife and landscape criteria set out in Schedule 1 of The Hedgerows Regulations 1997.
- 4.1.4. LA 108<sup>13</sup> advises that UK BAP priority habitats and habitats of principal importance should be considered to be of national nature conservation value. However, the majority of the hedgerows within the Hedgerow Survey Area are species-poor, and only relatively short stretches of hedgerow are present within the Scheme Boundary. Furthermore, although there has been loss of hedgerows and field boundaries in recent decades due to agricultural intensification, hedgerows and hedgerows with trees are frequent throughout Gloucestershire.
- 4.1.5. Taking all of this into consideration, the hedgerow network within the zone of influence of the Scheme is considered to enrich the habitat resource within the local context, providing ecological connectivity and is, therefore, considered to be of Local nature conservation importance.

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<sup>12</sup> Maddock, A. (ed) (2008). *UK Biodiversity Action Plan Priority Habitat Descriptions – Hedgerows*. Online: <https://data.jncc.gov.uk/data/ca179c55-3e9d-4e95-abd9-4edb2347c3b6/UKBAP-BAPHabitats-17-Hedgerows.pdf>

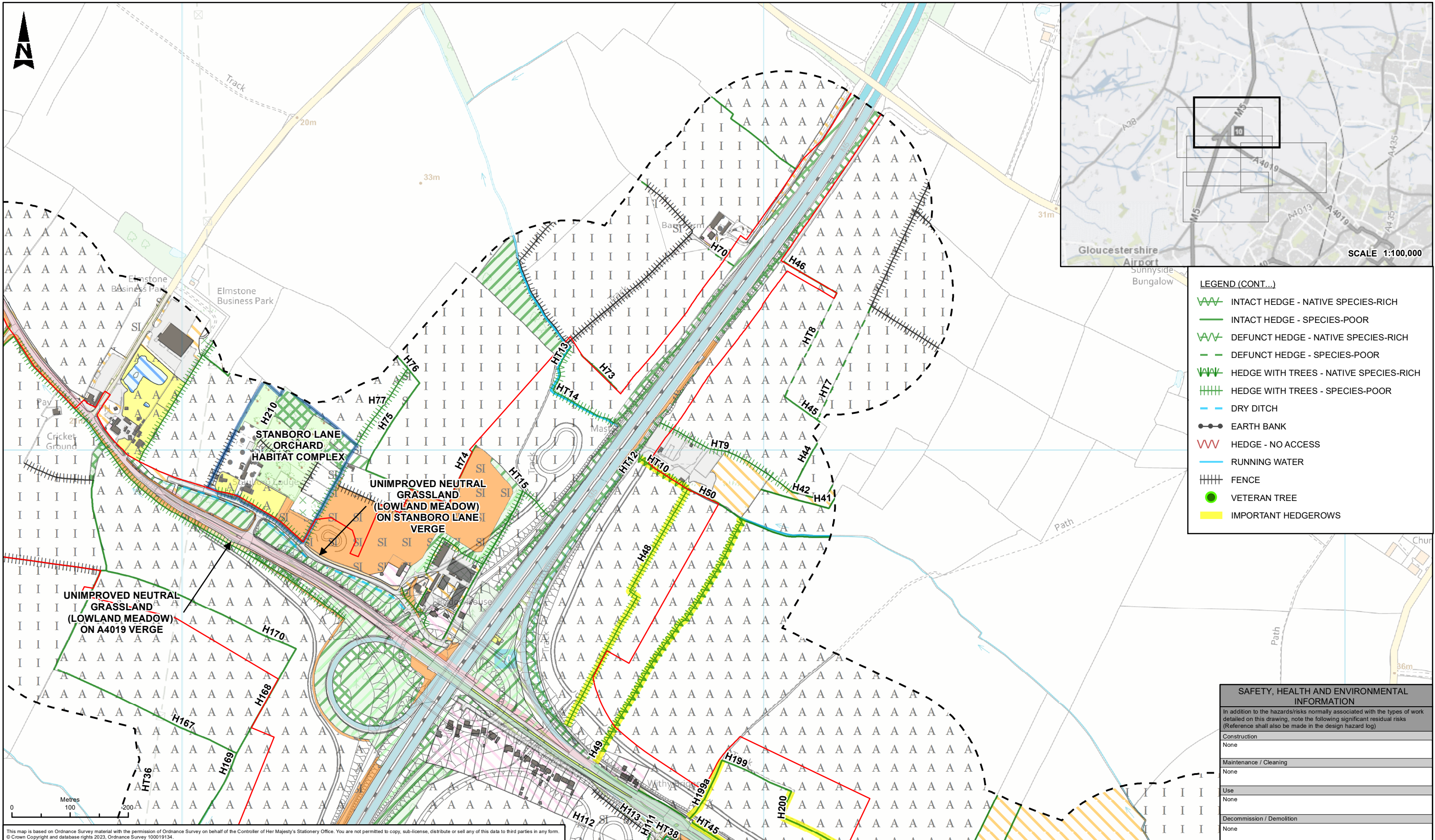
<sup>13</sup> Highways England (2020). Design Manual for Roads and Bridges. LA 108 Biodiversity (formerly Volume 11, Section 3, Part 4 Ecology and Nature Conservation and IAN 130/10). (March 2020, version 1). Online: [https://www.standardsforhighways.co.uk/dmr/search?discipline=SUSTAINABILITY\\_AND\\_ENVIRONMENT\\_](https://www.standardsforhighways.co.uk/dmr/search?discipline=SUSTAINABILITY_AND_ENVIRONMENT_)

# Appendices



## Appendix A. Schedule of figures included in this application document

Figure reference	Document title	Sheet	Document number	Revision
7-2A	Phase 1 Habitats and Important Hedgerows	1 of 5	GCCM5J10-ATK-EBD-ZZ-GS-GI-000050	0
7-2A	Phase 1 Habitats and Important Hedgerows	2 of 5	GCCM5J10-ATK-EBD-ZZ-GS-GI-000050	0
7-2A	Phase 1 Habitats and Important Hedgerows	3 of 5	GCCM5J10-ATK-EBD-ZZ-GS-GI-000050	0
7-2A	Phase 1 Habitats and Important Hedgerows	4 of 5	GCCM5J10-ATK-EBD-ZZ-GS-GI-000050	0
7-2A	Phase 1 Habitats and Important Hedgerows	5 of 5	GCCM5J10-ATK-EBD-ZZ-GS-GI-000050	0



**LEGEND (CONT...)**

- INTACT HEDGE - NATIVE SPECIES-RICH
- INTACT HEDGE - SPECIES-POOR
- DEFUNCT HEDGE - NATIVE SPECIES-RICH
- DEFUNCT HEDGE - SPECIES-POOR
- HEDGE WITH TREES - NATIVE SPECIES-RICH
- HEDGE WITH TREES - SPECIES-POOR
- DRY DITCH
- EARTH BANK
- HEDGE - NO ACCESS
- RUNNING WATER
- FENCE
- VETERAN TREE
- IMPORTANT HEDGEROWS

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ORDER LIMITS	SEMI-NATURAL MIXED WOODLAND	SEMI-IMPROVED NEUTRAL GRASSLAND	AMENITY GRASSLAND	HABITAT COMPLEXES
SCHEME	PLANTATION MIXED WOODLAND	IMPROVED GRASSLAND	EPHEMERAL/SHORT PERENNIAL	AERIAL PHOTOGRAPH INTERPRETATION
200M STUDY	DENSE SCRUB	POOR SEMI-IMPROVED GRASSLAND	INTRODUCED SHRUB	GRASSLAND/ AGRICULTURAL
<b>PHASE 1 HABITATS</b>	SCATTERED SCRUB	TALL RUDERAL	CARAVAN SITE	RESIDENTIAL GARDEN
SEMI-NATURAL BROAD-LEAVED WOODLAND	SCATTERED TREES	STANDING WATER	BUILDINGS	ROADSIDE/VERGE
PLANTATION BROAD-LEAVED WOODLAND	UNIMPROVED NEUTRAL GRASSLAND	RUNNING WATER	BARE GROUND	WOODLAND
PLANTATION CONIFEROUS WOODLAND		ARABLE	HARDSTANDING	WATER
			TRADITIONAL ORCHARD	

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**ATKINS**  
Member of the SNC-Lavalin Group  
5th Floor, Block 5  
Shire Hall  
Bearland  
Gloucester  
GL1 2TH  
Tel: 08000 514 514  
www.atkinsglobal.com

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COUNTY COUNCIL

<b>SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION</b>	
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
<b>Project Title</b> M5 Junction 10 Improvements Scheme	
<b>Drawing Title</b> FIGURE 7-2A PHASE 1 HABITATS AND IMPORTANT HEDGEROWS	
<b>Drawing Number</b>	Project: GCCM5J10 - ATK - EBD ZZ - GS - GI - 000050
<b>Original Size</b> : A3	Location: Type: Role: Number: Rev: P02
<b>Scale</b> : 1:6,000	Project Ref: 5214106
<b>Sheet</b> : 1 of 5	



**LEGEND (CONT...)**

- INTACT HEDGE - NATIVE SPECIES-RICH
- INTACT HEDGE - SPECIES-POOR
- DEFUNCT HEDGE - NATIVE SPECIES-RICH
- DEFUNCT HEDGE - SPECIES-POOR
- HEDGE WITH TREES - NATIVE SPECIES-RICH
- HEDGE WITH TREES - SPECIES-POOR
- DRY DITCH
- EARTH BANK
- HEDGE - NO ACCESS
- RUNNING WATER
- FENCE
- VETERAN TREE
- IMPORTANT HEDGEROWS

**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><b>LEGEND</b></p> <ul style="list-style-type: none"> <li> ORDER LIMITS</li> <li> SCHEME</li> <li> 200M STUDY</li> <li><b>PHASE 1 HABITATS</b></li> <li> SEMI-NATURAL BROAD-LEAVED WOODLAND</li> <li> PLANTATION BROAD-LEAVED WOODLAND</li> <li> PLANTATION CONIFEROUS WOODLAND</li> <li> SEMI-NATURAL MIXED WOODLAND</li> <li> PLANTATION MIXED WOODLAND</li> <li> DENSE SCRUB</li> <li> SCATTERED SCRUB</li> <li> SCATTERED TREES</li> <li> UNIMPROVED NEUTRAL GRASSLAND</li> <li> SEMI-IMPROVED NEUTRAL GRASSLAND</li> <li> IMPROVED GRASSLAND</li> <li> POOR SEMI-IMPROVED GRASSLAND</li> <li> TALL RUDERAL</li> <li> STANDING WATER</li> <li> RUNNING WATER</li> <li> ARABLE</li> <li> AMENITY GRASSLAND</li> <li> EPHEMERAL/SHORT PERENNIAL</li> <li> INTRODUCED SHRUB</li> <li> CARAVAN SITE</li> <li> BUILDINGS</li> <li> BARE GROUND</li> <li> HARDSTANDING</li> <li> TRADITIONAL ORCHARD</li> <li> HABITAT COMPLEXES</li> <li><b>AERIAL PHOTOGRAPH INTERPRETATION</b></li> <li> GRASSLAND/ AGRICULTURAL</li> <li> RESIDENTIAL GARDEN</li> <li> ROADSIDE/VERGE</li> <li> WOODLAND</li> <li> WATER</li> </ul>	<p><b>ATKINS</b> Member of the SNC-Lavalin Group 5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com</p> <p><b>gloucestershire</b> COUNTY COUNCIL</p>	<p><b>DESCRIPTION</b></p> <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>PUBLISHED</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED							<p><b>STATUS</b></p> <p><b>PUBLISHED</b></p> <p><b>A1</b></p>	<p><b>PROJECT TITLE</b></p> <p>M5 Junction 10 Improvements Scheme</p> <p><b>DRAWING TITLE</b></p> <p>FIGURE 7-2A PHASE 1 HABITATS AND IMPORTANT HEDGEROWS</p> <p><b>DRAWING NUMBER</b></p> <table border="1"> <tr> <td>Project</td> <td>Originator</td> <td>Volume</td> </tr> <tr> <td>GCCM5J10 - ATK - EBD</td> <td>ZZ - GS - GI - 000050</td> <td></td> </tr> </table> <p><b>ORIGINAL SIZE</b> A3</p> <p><b>SCALE</b> 1:6,000</p> <p><b>PROJECT REF</b> 5214106</p> <p><b>SHEET</b> 2 of 5</p> <p><b>REV</b> P02</p>	Project	Originator	Volume	GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000050	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																		
PUBLISHED																								
Project	Originator	Volume																						
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000050																							





- LEGEND (CONT...)**
- INTACT HEDGE - NATIVE SPECIES-RICH
  - INTACT HEDGE - SPECIES-POOR
  - DEFUNCT HEDGE - NATIVE SPECIES-RICH
  - DEFUNCT HEDGE - SPECIES-POOR
  - HEDGE WITH TREES - NATIVE SPECIES-RICH
  - HEDGE WITH TREES - SPECIES-POOR
  - DRY DITCH
  - EARTH BANK
  - HEDGE - NO ACCESS
  - RUNNING WATER
  - FENCE
  - VETERAN TREE
  - IMPORTANT HEDGEROWS

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**
- |                                    |                              |                                 |                           |                                  |
|------------------------------------|------------------------------|---------------------------------|---------------------------|----------------------------------|
| ORDER LIMITS                       | SEMI-NATURAL MIXED WOODLAND  | SEMI-IMPROVED NEUTRAL GRASSLAND | AMENITY GRASSLAND         | HABITAT COMPLEXES                |
| SCHEME                             | PLANTATION MIXED WOODLAND    | IMPROVED GRASSLAND              | EPHEMERAL/SHORT PERENNIAL | AERIAL PHOTOGRAPH INTERPRETATION |
| 200M STUDY                         | DENSE SCRUB                  | POOR SEMI-IMPROVED GRASSLAND    | INTRODUCED SHRUB          | GRASSLAND/ AGRICULTURAL          |
| <b>PHASE 1 HABITATS</b>            | SCATTERED SCRUB              | TALL RUDERAL                    | CARAVAN SITE              | RESIDENTIAL GARDEN               |
| SEMI-NATURAL BROAD-LEAVED WOODLAND | SCATTERED TREES              | STANDING WATER                  | BUILDINGS                 | ROADSIDE/VERGE                   |
| PLANTATION BROAD-LEAVED WOODLAND   | UNIMPROVED NEUTRAL GRASSLAND | RUNNING WATER                   | BARE GROUND               | WOODLAND                         |
| PLANTATION CONIFEROUS WOODLAND     |                              | ARABLE                          | HARDSTANDING              | WATER                            |
|                                    |                              |                                 | TRADITIONAL ORCHARD       |                                  |

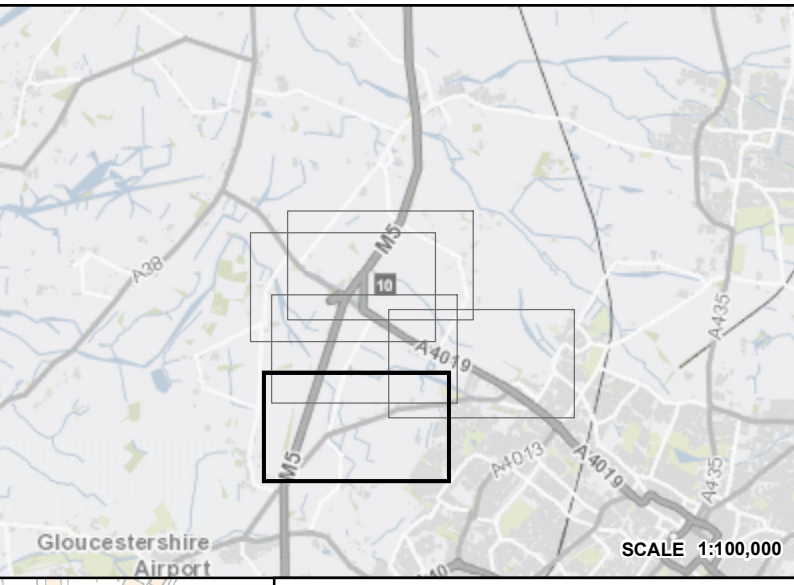
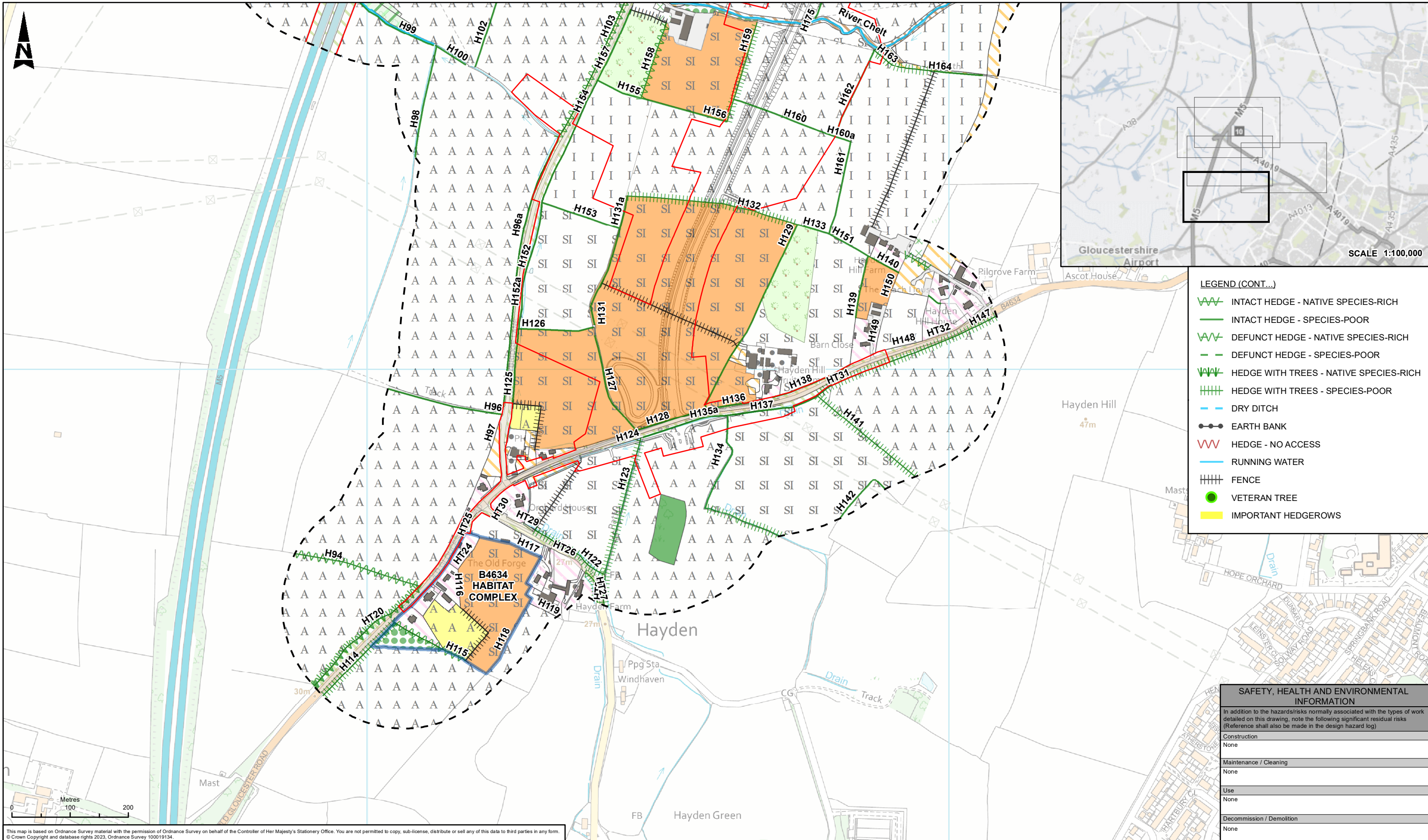
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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**ATKINS**  
Member of the SNC-Lavalin Group  
5th Floor, Block 5  
Shire Hall  
Bearland  
Gloucester  
GL1 2TH  
Tel: 08000 514 514  
www.atkinsglobal.com

**Gloucestershire COUNTY COUNCIL**

<b>Project Title</b> M5 Junction 10 Improvements Scheme	
<b>Drawing Title</b> FIGURE 7-2A PHASE 1 HABITATS AND IMPORTANT HEDGEROWS	
<b>Drawing Number</b> GCCM5J10 - ATK - EBD ZZ - GS - GI - 000050	<b>Project</b> GCCM5J10 - ATK - EBD
<b>Location</b> A3	<b>Scale</b> 1:6,000
<b>Type</b> Ref: 5214106	<b>Volume</b> 3 of 5
<b>Sheet</b> 3 of 5	<b>Rev:</b> P02

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**LEGEND (CONT...)**

- INTACT HEDGE - NATIVE SPECIES-RICH
- INTACT HEDGE - SPECIES-POOR
- DEFUNCT HEDGE - NATIVE SPECIES-RICH
- DEFUNCT HEDGE - SPECIES-POOR
- HEDGE WITH TREES - NATIVE SPECIES-RICH
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

**LEGEND**

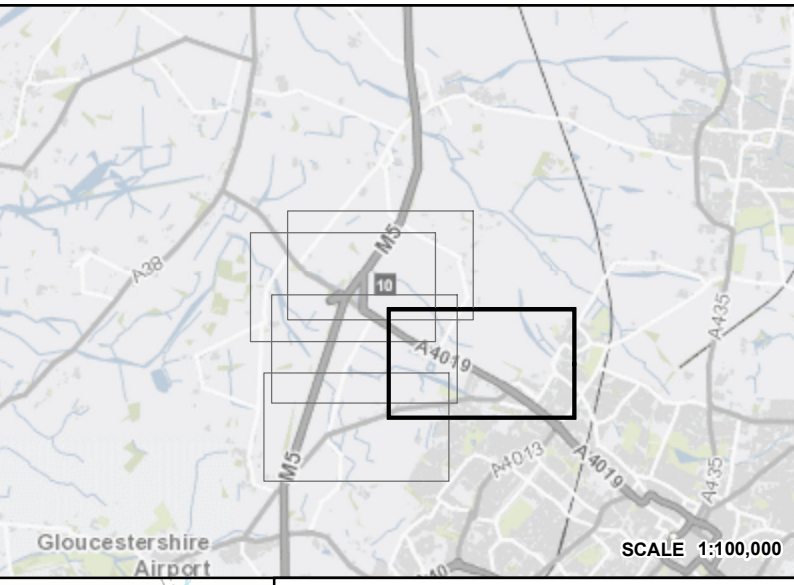
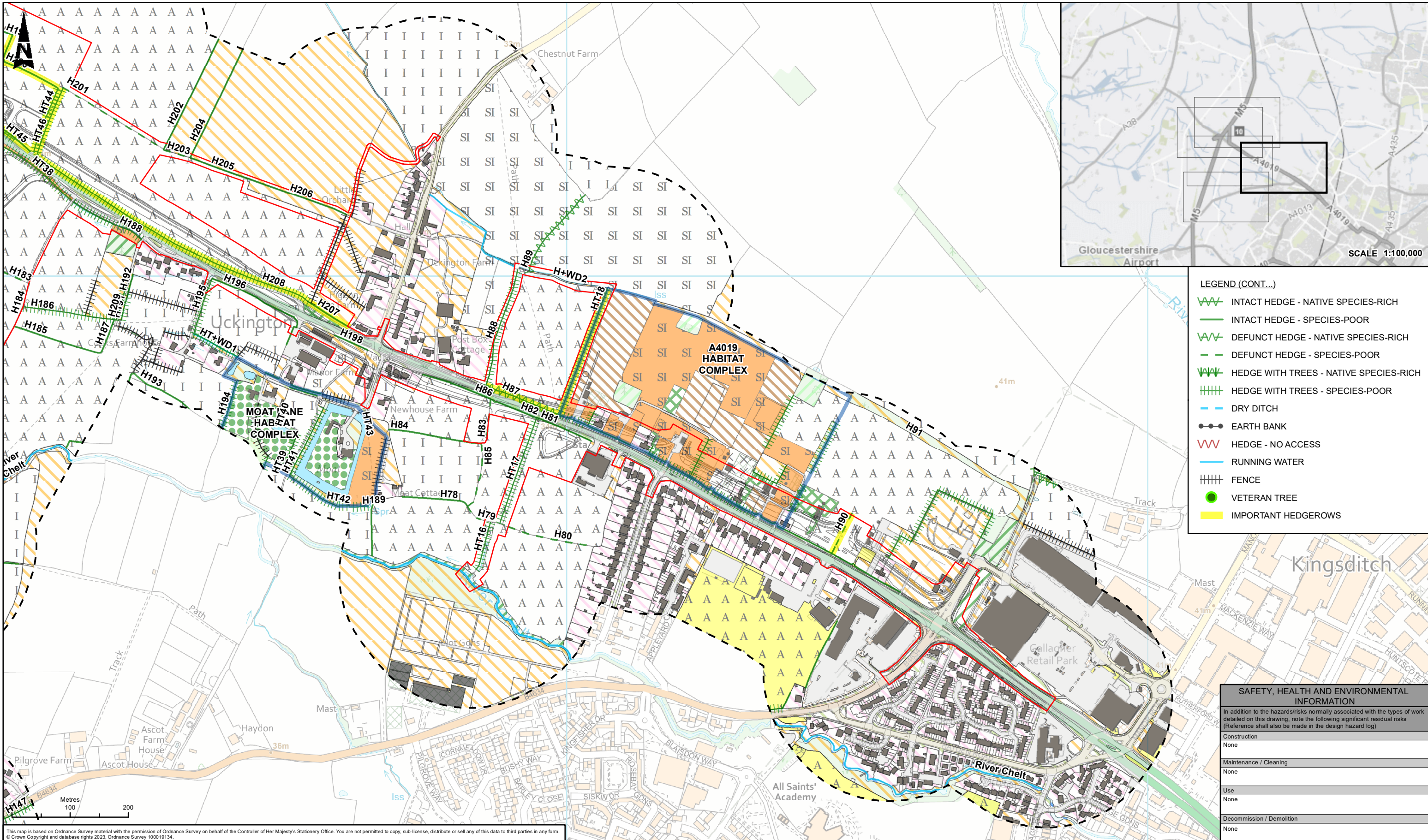
ORDER LIMITS	SEMI-NATURAL MIXED WOODLAND	SI SEMI-IMPROVED NEUTRAL GRASSLAND	A AMENITY GRASSLAND	HABITAT COMPLEXES
SCHEME	PLANTATION MIXED WOODLAND	I IMPROVED GRASSLAND	EPHEMERAL/SHORT PERENNIAL	AERIAL PHOTOGRAPH INTERPRETATION
200M STUDY	DENSE SCRUB	SI POOR SEMI-IMPROVED GRASSLAND	INTRODUCED SHRUB	GRASSLAND/ AGRICULTURAL
<b>PHASE 1 HABITATS</b>	SCATTERED SCRUB	TALL RUDERAL	CARAVAN SITE	RESIDENTIAL GARDEN
SEMI-NATURAL BROAD-LEAVED WOODLAND	SCATTERED TREES	STANDING WATER	BUILDINGS	ROADSIDE/VERGE
PLANTATION BROAD-LEAVED WOODLAND	UNIMPROVED NEUTRAL GRASSLAND	RUNNING WATER	BARE GROUND	WOODLAND
PLANTATION CONIFEROUS WOODLAND		A ARABLE	HARDSTANDING	WATER
			TRADITIONAL ORCHARD	

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Published	PUBLISHED	P01	SD	LH	CC	LJ	25/08/23

**ATKINS**  
 Member of the SNC-Lavalin Group  
 5th Floor, Block 5  
 Shire Hall  
 Bearland  
 Gloucester  
 GL1 2TH  
 Tel: 08000 514 514  
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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-2A PHASE 1 HABITATS AND IMPORTANT HEDGEROWS
Drawing Number	Project: GCCM5J10 - ATK - EBD ZZ - GS - GI - 000050
Original Size	A3
Scale	1:6,000
Project Ref	5214106
Sheet	4 of 5
Rev	P02



**LEGEND (CONT...)**

- INTACT HEDGE - NATIVE SPECIES-RICH
- INTACT HEDGE - SPECIES-POOR
- DEFUNCT HEDGE - NATIVE SPECIES-RICH
- DEFUNCT HEDGE - SPECIES-POOR
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- IMPORTANT HEDGEROWS

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

**LEGEND**

ORDER LIMITS	SEMI-NATURAL MIXED WOODLAND	SEMI-IMPROVED NEUTRAL GRASSLAND	AMENITY GRASSLAND	HABITAT COMPLEXES
SCHEME	PLANTATION MIXED WOODLAND	IMPROVED GRASSLAND	EPHEMERAL/SHORT PERENNIAL	AERIAL PHOTOGRAPH INTERPRETATION
200M STUDY	DENSE SCRUB	POOR SEMI-IMPROVED GRASSLAND	INTRODUCED SHRUB	GRASSLAND/ AGRICULTURAL
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PLANTATION CONIFEROUS WOODLAND		ARABLE	HARDSTANDING	WATER
			TRADITIONAL ORCHARD	

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P01	SD	LH	CC	LJ	25/08/23

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**ATKINS**  
Member of the SNC-Lavalin Group  
5th Floor, Block 5  
Shire Hall  
Bearland  
Gloucester  
GL1 2TH  
Tel: 08000 514 514  
www.atkinsglobal.com

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**Gloucestershire**  
COUNTY COUNCIL

Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-2A PHASE 1 HABITATS AND IMPORTANT HEDGEROWS
Drawing Number	Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000050 Volume: 5 of 5
Original Size	A3
Scale	1:6,000
Project Ref	5214106
Sheet	5 of 5
Rev	P02

## Appendix B. Summary of Findings against the Hedgerow Regulations 1997

Table B-1 Summary of Findings against the Hedgerow Regulations 1997 for 39 hedgerows within the Scheme Boundary

Hedgerow ID	Length (m)	Width (m)	Height (m)	Number of 30 m sections surveyed	Woody species recorded	Woody species average per 30 m section	Importance in respect of wildlife and landscape criteria, Schedule 1 of the Hedgerow Regulations (1997) and rationale
<b>H+WD3</b>	222	2	2.25	3	Blackthorn Alder Field maple Elder English elm Buckthorn	1.66	No
<b>H48</b>	470	3	2	3	Blackthorn Dogwood Crab apple Common hawthorn Rose sp.	3.33	Yes – meets criteria 6.3.a – assumed to support hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species
<b>H49</b>	493	2	1.75	3	Hawthorn Blackthorn Field maple Dogwood Elder Grey willow Ash Crab apple	5.67	Yes – meets criteria 6.3.a – assumed to support hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species

Hedgerow ID	Length (m)	Width (m)	Height (m)	Number of 30 m sections surveyed	Woody species recorded	Woody species average per 30 m section	Importance in respect of wildlife and landscape criteria, Schedule 1 of the Hedgerow Regulations (1997) and rationale
<b>H81</b>	102	2	4	2	Hawthorn Elder	1.5	No
<b>H82</b>	89	2	4	1	Hawthorn Elder	2	No
<b>H83</b>	83	1.5	3	1	Hawthorn Elder Blackthorn	3	No
<b>H86</b>	124	2	4	2	Hawthorn Elder	1.5	No
<b>H87</b>	141	0.5	1.5	2	Hawthorn Blackthorn Elder Buckthorn Hybrid crack willow Norway maple Way-fairing tree Lombardy poplar	5	Yes – meets criteria 6.3.a – assumed to support hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species
<b>H90</b>	77	2.5	1.25	1	Blackthorn Prunus sp. Elder	2	Yes – meets criteria 6.3.a – assumed to support hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species
<b>H110</b>	469	1.5	2	3	Blackthorn Hawthorn Cherry sp.	4.33	No

Hedgerow ID	Length (m)	Width (m)	Height (m)	Number of 30 m sections surveyed	Woody species recorded	Woody species average per 30 m section	Importance in respect of wildlife and landscape criteria, Schedule 1 of the Hedgerow Regulations (1997) and rationale
					Ash English elm Privet Dogwood Field maple		
<b>H112</b>	142	2	2.5	2	Hawthorn Blackthorn Crack willow Black willow Walnut	3	No
<b>H123</b>	243	3.5	5	3	Rose sp. Elm sp. Blackthorn Hawthorn Elder Spindle	4.33	No
<b>H127</b>	183	4	5	2	Elder Willow sp. Hawthorn Rose sp. Blackthorn	3.5	No
<b>H128</b>	124	1.5	2.5	2	Hawthorn Blackthorn Elder	3.5	No

Hedgerow ID	Length (m)	Width (m)	Height (m)	Number of 30 m sections surveyed	Woody species recorded	Woody species average per 30 m section	Importance in respect of wildlife and landscape criteria, Schedule 1 of the Hedgerow Regulations (1997) and rationale
					Privet		
<b>H132</b>	298	2	2	3	Blackthorn Hawthorn Rose sp. Elder Privet Willow sp.	3	No
<b>H134</b>	221	5	1.75	5	Privet Rose sp. Blackthorn Willow sp. Hawthorn Elder Spindle	3.2	No
<b>H136</b>	88	1.5	2.5	1	Hawthorn Privet Sessile oak	1	No
<b>H137</b>	160	2	2.75	2	Blackthorn Privet Rose sp. Hawthorn Elder	2	No
<b>H160</b>	214	1.5	2	2	Hawthorn Blackthorn	4	No

Hedgerow ID	Length (m)	Width (m)	Height (m)	Number of 30 m sections surveyed	Woody species recorded	Woody species average per 30 m section	Importance in respect of wildlife and landscape criteria, Schedule 1 of the Hedgerow Regulations (1997) and rationale
					Elder Rose sp. Field maple		
<b>H176</b>	168	1.5	2	2	Blackthorn Hawthorn Elder Willow sp.	3	No
<b>H177</b>	110	2.5	2.75	2	Elder Hawthorn Blackthorn Dog rose Field maple Dogwood Elm Hazel	5	Yes – At least five woody species listed on Schedule 3 per 30 m section, adjacent to a footpath, and two features listed in paragraph 4 (at least 4 connection points and intact; gaps not exceeding 10% of hedgerow).
<b>H183</b>	383	1.5	2.25	3	Elder Hawthorn Cherry sp.	2.66	No
<b>H188</b>	126	1.5	7	2	English elm Elm sp. Blackthorn Willow sp. Ash	3	No
<b>H195</b>	101	1.5	2	1	Hawthorn	2	No



Hedgerow ID	Length (m)	Width (m)	Height (m)	Number of 30 m sections surveyed	Woody species recorded	Woody species average per 30 m section	Importance in respect of wildlife and landscape criteria, Schedule 1 of the Hedgerow Regulations (1997) and rationale
					Elder Ash		
<b>H196</b>	165	1.5	2	1	Hawthorn Elm sp. Elder	3	No
<b>H198</b>	62	3	6	1	Hawthorn Elder	2	No
<b>H199a</b>	115	1.75	1.75	2	Hawthorn Elder Blackthorn Field maple	2.5	Yes – meets criteria 6.3.a – assumed to support hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species
<b>H200</b>	152	1.5	1.5	2	Field maple Blackthorn Elder Hawthorn	3	Yes – meets criteria 6.3.a – assumed to support hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species
<b>H207</b>	78	1.25	1.75	1	Hawthorn	1	Yes – meets criteria 6.3.a – assumed to support hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species
<b>H208</b>	538	1.5	1.5	3	Hawthorn Cherry sp. Bramble	2	Yes – meets criteria 6.3.a – contains hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species
<b>HT10</b>	98	6	4	2	Elm sp. Hawthorn	8	Yes – At least seven woody species listed on Schedule 3 per 30 m section

Hedgerow ID	Length (m)	Width (m)	Height (m)	Number of 30 m sections surveyed	Woody species recorded	Woody species average per 30 m section	Importance in respect of wildlife and landscape criteria, Schedule 1 of the Hedgerow Regulations (1997) and rationale
					Rose sp. Elder Dogwood Cherry sp. Ash Pedunculate oak Sycamore Willow sp. Field maple		
<b>HT17</b>	194	2	7.5	2	Hawthorn Elder	2	No
<b>HT18</b>	232	0.5	12	3	Poplar sp. Elder Hawthorn Bramble	1	Yes – meets criteria 6.3.a – assumed to support hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species
<b>HT34</b>	358	4	3	3	Hawthorn Elder Blackthorn Dogwood Sycamore	3	No
<b>HT37</b>	178	3	8	2	Hawthorn Elder	2	No
<b>HT38</b>	381	2	7	3	Blackthorn Hawthorn	4	No

Hedgerow ID	Length (m)	Width (m)	Height (m)	Number of 30 m sections surveyed	Woody species recorded	Woody species average per 30 m section	Importance in respect of wildlife and landscape criteria, Schedule 1 of the Hedgerow Regulations (1997) and rationale
					Elder Apple Field maple Willow sp.		
<b>HT44</b>	118	1.75	2.5	2	Hawthorn Willow sp. Blackthorn	3	Yes – meets criteria 6.3.a – assumed to support hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species
<b>HT45</b>	248	2	2.75	3	Hawthorn Elder Ash Elder Unknown sp.	1.33	Yes – meets criteria 6.3.a – assumed to support hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species
<b>HT46</b>	125	1	1.5	1	Hawthorn Ash Crack willow	3	Yes – meets criteria 6.3.a – assumed to support hazel dormouse a Wildlife and Countryside Act 1981 Schedule 5 species

# ATKINS

Member of the SNC-Lavalin Group

5th Floor, Block 5  
Shire Hall  
Bearland  
Gloucester  
GL1 2TH

Tel: +44 (0) 8000 514 514