



# ARBORICULTURAL SURVEY REPORT

Steeple Renewables  
Project

May 2024



**Barton Hyett Associates**  
Arboricultural Consultants



Summary table		
Site Name:	Steeple Renewables Project	
Project reference:	5343	
Site Address:	Fenton Lane, Fenton, Sturton le Steeple	
Nearest Postcode:	DN22 9HF	
Central Grid reference:	<a href="#">SK 79739 83342</a>	
Local Planning Authority:	Bassetlaw District Council	
Relevant planning policies:	Bassetlaw Local Plan 2020-2038, Bassetlaw District Local Development Framework November 2010	
Statutory Controls:	Tree Preservation Order	Conservation Area
	<a href="#">TBC</a> - awaiting LPA response.	None
Soil Type: (Source: BGS online soils map © NERC 2024)	Superficial/Drift	Bedrock
	Holme Pierrepont Sand and Gravel Member - Sand and gravel	Mercia Mudstone Group - Mudstone
Topographical Survey:	220847_ All Areas_2D	
Report author:	Ian Howell BA (Hons), Dip Arb L4 (ABC), TechArborA	
Checked by:	Richard Hyett MSc, BSc (Hons), MICFor, MArborA	
Date of issue:	22.05.2024	

## REPORT CONTENTS:

SECTION 1:	TREE SURVEY & SITE IMAGES
SECTION 2:	TREE SURVEY & CONSTRAINTS PLAN
SECTION 3:	TREE SURVEY SCHEDULE
SECTION 4:	METHODOLOGY
SECTION 5:	DESIGN GUIDANCE AND GENERIC ADVICE

## 1. INSTRUCTION

- 1.1. Barton Hyett Associates Ltd has been instructed by RES to survey trees located on land at Fenton Lane, Fenton, Sturton le Steeple ('the Site') in accordance with the recommendations of British Standard 5837:2012 'Trees in relation to design, demolition and construction - recommendations'.
- 1.2. The scope of the instruction was to inspect trees relevant to a Proposed Development comprising of a solar farm and associated infrastructure. The instruction also requires Barton Hyett Associates to provide written advice on arboriculture matters in order to inform design options for the Proposed Development..
- 1.3. Due the scale of the Proposed Development a submission will be made to the Secretary of State for the Department of Business, Energy and Industrial Strategy in order to gain permission via a Development Consent Order. The Examining Authority (EA) is The Planning Inspectorate (PI).

## 2. SITE DESCRIPTION

- 2.1. The Site lies approximately 6km south west of Gainsborough , between Lincoln and Doncaster, and is made up of agricultural land with field boundaries defined by a mixture of hedgerows and ditches.
- 2.2. The survey area is predominantly used for arable crop production and measures approximately 8 km by 3.4 km. The Site is broadly flat but undulates gently throughout.
- 2.3. There are various named and unnamed side roads running through the Site with private roads providing access to various existing farmyards.
- 2.4. Access to the Site is possible from these private roads and on foot via several Public Rights of Way (PRoW) which cross the Site.
- 2.5. The surrounding area is agricultural land with occasional farmyards, plantations, copses and outlying dwellings. The village of Sturton le Steeple is located at the centre of the Site.

## 3. TREE SURVEY FINDINGS

- 3.1. The survey recorded 1045 arboricultural features. These are summarised in terms of quality in accordance with the recommendations of BS 5837:2012 in Table 1 and shown in more detail on the Tree Survey and Constraints Plan (**Section 2**) and within the Tree Survey Schedule (**Section 3**).
- 3.2. The trees and features recorded as Out Of Scope (OOS) refer to either a dead-standing or failed tree; a stump; ruderal species or minor shrubs; where trees are inaccessible or located off-site and unlikely to be affected by the development or, it is found that the trees are undersized according to BS 5837:2012, which stipulates a minimum recordable stem diameter of 75mm.

Table 1: arboricultural features by type and quality category.

	Total	A - High quality trees whose retention is most desirable.	B - Moderate quality trees whose retention is desirable.	C - Low quality trees which could be retained but should not significantly constrain the proposal.	U - Very poor quality trees that should be removed unless they have high conservation value.
<b>Trees</b>	<b>496</b>	36	215	243	2
<b>Groups</b>	<b>116</b>	6	60	50	-
<b>Woodland</b>	<b>3</b>	-	3	-	-
<b>Hedgerows</b>	<b>430</b>	-	317	111	2
<b>Total</b>	<b>1045</b>	<b>42</b>	<b>595</b>	<b>404</b>	<b>4</b>

## 4. KEY ARBORICULTURAL FEATURES

- 4.1. No Ancient Semi-Natural Woodlands (ASNW) are associated with the Site (source: DEFRA online mapping resource 'MAGIC Maps' Ancient Woodland inventory).
- 4.2. Thirty-six individual trees and six groups of trees have been recorded as high-quality (BS 5837:2012 Category A) features. The species of trees break down as twenty oak, one crab apple, four maple, six willow, one hawthorn, three ash, one lime and groups of oak, ash, lime, willow and sycamore. These trees are particularly good examples of their species which are prominent within the landscape, of excellent form and condition, with a long life expectancy and a limited number of defects noted.
- 4.3. To the west of the Site, bounding the River Trent, is a large area of wetland habitat that is home to many mature willow trees including crack willow, white willow, goat willow and osier willow. This whole area of tree cover was recorded as a BS 5837:2012 Category A tree group with the subcategory '3' due to the conservation and ecological value of this habitat and also the trees within.
- 4.4. One off-site oak (T493) has been recorded as a 'veteran' tree. However, it could also be considered to be 'ancient' due to its exceptionally large stem diameter. This tree is located outside of the Site redline boundary but the applied 30m buffer extends into the bounds of the eastern most portion of the site.
- 4.5. As is typical for many agricultural settings, the vast majority of the sites mature trees are to be found within the field boundary hedgerows. On this Site many of the hedgerows often have deep and well-maintained drainage ditches that run parallel on one or both sides of the hedgerows.

## 5. CONSTRAINTS AND OPPORTUNITIES

- 5.1. The Root Protection Areas (RPAs) of high and moderate-quality trees and tree groups should be respected and avoided by any development, including ground-level changes, access roads, foundations, hard surfacing and underground cable runs. The same is true of the buffer associated to the single veteran/ancient tree (T493).
- 5.2. Due to the agricultural usage of the site, the vast majority of the recorded arboricultural resource is located along the field boundaries. The nature of the Proposed Development means that retaining the majority of trees will be possible. Utilising existing field gateways and access routes for locating construction/maintenance tracks and cables is advisable.
- 5.3. Detrimental impacts from development might include, but are not limited to, damage to roots and understorey, damage to or compaction of soil around the tree roots and changes to the water table or drainage within the soil around a tree.
- 5.4. It is also important to consider the future growth potential of the trees at the site in order to allow for the potential for shading and encroachment from tree canopies and how this may impact the site in the future. The aim is to avoid the post-development need to carry out unnecessary pruning or felling of retained trees.
- 5.5. In relation to the installation of underground cables across the site, generic guidance relating to the installation of underground cabling in close proximity to tree roots has been compiled in volume 4 of the National Joint Utilities Group (NJUG) guidance.
- 5.6. For the installation of utilities (including cables) refer to Section 4 'How To Avoid Damage To Trees' which details acceptable working methods relating to 'excavations or other works occurring within the Prohibited Zone or Precautionary Zone'. To summarise, the preferred approach is to avoid RPAs through the realignment of the proposed trench and cable. NJUG Volume 4 states: 'Whenever possible apparatus should always be diverted or re-aligned outside the Prohibited or Precautionary Zones. Under no circumstances can machinery be used to excavate open trenches within the Prohibited Zone'.
- 5.7. There is a good opportunity to improve the long-term tree cover through appropriate new trees or woodland planting. Suitable planting alongside existing features, new boundary or infrastructure features (e.g. attenuation ponds) and establishing new wildlife corridors to link existing ponds or woodland would help with improving biodiversity and connectivity.
- 5.8. There is also an opportunity to enhance the existing, low and moderate-quality hedgerows with supplementary planting to fill in gaps. Re-stocking existing hedgerows where gaps are appearing, re-defining existing boundaries and establishing some new sections of hedgerow will ensure better connectivity in terms of wildlife corridors.
- 5.9. Please see **Section 5** for further advice and guidance on designing new developments near trees.

## 6. CONCLUSION AND RECOMMENDATIONS

- 6.1. The information contained within this report should be used in the preparation of design proposals for the site, in order to minimise negative arboricultural impacts.
- 6.2. The RPAs of recorded arboricultural features should be considered sacrosanct and the Proposed Development (e.g. infrastructure for the short to long-term construction) should be planned to avoid these areas wherever possible.
- 6.3. The developable area of the Site is focused within the interior of existing agricultural fields and is therefore relatively free from arboricultural constraints. On this basis, the development of the Site to include a solar farm is feasible from an arboricultural perspective.
- 6.4. There is ample opportunity across the site to establish new trees or enhance hedgerows and the existing gateways and access track should be used wherever feasible.
- 6.5. As the design of the Proposed Development progresses the Works Plans and other associated plans/drawings should be reviewed by the project arboriculturist to assist in proactively designing out arboricultural impacts.



Ian Howell BA (Hons), Dip Arb L4 (ABC), TechArborA  
Arboriculturist





IMAGE 1: Veteran/ancient English oak tree. Located just outside of the bounds of the site.



IMAGE 2: Wetland habitat adjacent to the River Trent containing many mature willow trees.



IMAGE 3: Mature crack willow pollard.



IMAGE 4: Category A English oak located within the hedgerow with an existing farm access track adjacent.



IMAGE 5: Typical dense and mature native mixed species hedgerow parallel to an existing farm access track.



IMAGE 6: Mature and prominent common ash trees G15 (Category A3).





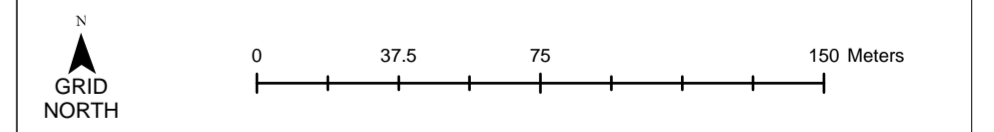
- KEY**
- Category A Tree - High quality (Retention highly desirable)
  - Category A - Hedgerow, Group, Woodland - High quality (Retention highly desirable)
  - Category B Tree - Moderate quality (Retention desirable)
  - Category B - Hedgerow, Group, Woodland - Moderate quality (Retention desirable)
  - Category C Tree - Low quality (May be retained but should not constrain development)
  - Category C - Hedgerow, Group, Woodland - Low quality (May be retained but should not constrain development)
  - Category U Tree - Very low quality (Mostly unsuitable for retention)
  - Category U - Hedgerow, Group, Woodland - Very low quality (Mostly unsuitable for retention)
  - Root Protection Area (RPA) - Layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and soil volume to maintain the tree's viability
  - Shrub mass/offsite tree/out of scope (OOS)
  - Tree/Group/Hedgerow not on topographical survey. Location given is an estimate
  - Ancient Tree / Woodland or Veteran Trees
  - Ancient tree/woodland or Veteran tree: Important trees that require special consideration
  - Ancient tree/woodland or Veteran tree buffer: As per published standing advice from Natural England and the Forestry Commission
  - Statutory Protection**
  - Tree Preservation Order (TPO): Trees under statutory protection. No tree works to be undertaken without specific consent or by relevant exception. The site may be within a designated Conservation Area which restricts tree works. Please see attached advice and guidance.
  - Existing gateway or field access
  - Target Note

Label	Description
OOS 001	Offsite ash, 8m tall
OOS 002	Offsite ash, 9m tall
OOS 003	Offsite ash, 9m tall
OOS 004	Offsite ash, 9m tall
OOS 005	Offsite ash, 8m tall
OOS 006	Collapsed dead tree 12m into site
OOS 007	Small mature ash - 7m tall
OOS 008	Offsite railway field maple, 3m tall
OOS 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not posted on top
OOS 010	Young dead stem
OOS 011	Bramble, hawthorn felled out-of-scope hedging
OOS 012	Bramble, hawthorn, blackthorn felled out-of-scope hedging
OOS 013	Saplings with tree protection measures
OOS 014	Saplings with tree protection measures
OOS 015	Sub 75mm predominantly blackthorn
OOS 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
OOS 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, hawthorn
OOS 018	Off-site adjacent to railway side, self established young thorn & maple
OOS 019	Off-site adjacent to railway side, self established young thorn & dogrose
OOS 020	Stash - willow, laurel, sapling hawthorn
OOS 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall

Label	Description
TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPAs
TN3	Oak trees within the hedgerow are set back from site redline beyond RPAs
TN4	Existing compacted earth and stone track



Note: The original of this drawing was produced in colour – a monochrome copy should not be relied upon. This drawing should be interpreted with reference to the accompanying tree schedule and written advice



PROJECT TITLE	Steeple (5343)		
DRAWING TITLE	Tree Survey Plan		
SCALE	Scale: 1:2,000 @ A1	DRAWING NUMBER	BHA_5343_01
DRAWN BY	TS	APPROVED BY	BH
REVISION	1 of 19	DATE	14/05/2024
COORDINATE SYSTEM / DATUM	British National Grid / Newlyn Datum (AOD)		
CLIENT	RES		

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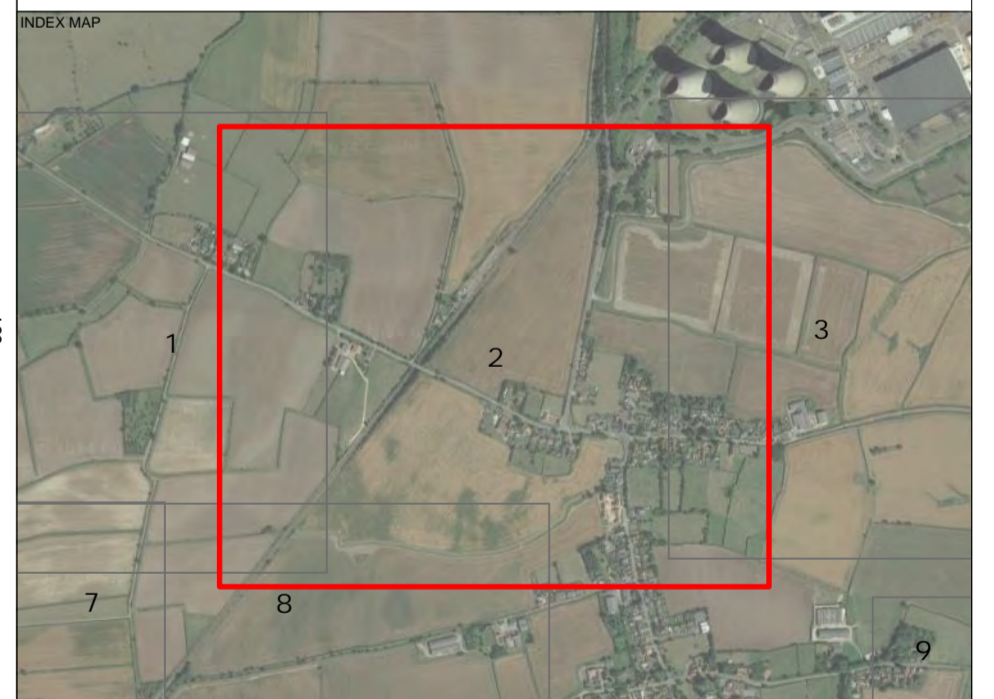




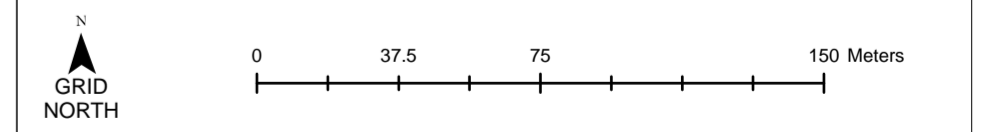
- KEY**
- Category A Tree - High quality (Retention highly desirable)
  - Category A - Hedgerow, Group, Woodland - High quality (Retention highly desirable)
  - Category B Tree - Moderate quality (Retention desirable)
  - Category B - Hedgerow, Group, Woodland - Moderate quality (Retention desirable)
  - Category C Tree - Low quality (May be retained but should not constrain development)
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Label	Description
O05 001	Offsite ash, 8m tall
O05 002	Offsite ash, 9m tall
O05 003	Offsite ash, 9m tall
O05 004	Offsite ash, 9m tall
O05 005	Offsite ash, 8m tall
O05 006	Collapsed dead tree 12m into site
O05 007	Some mature ash - 7m tall
O05 008	Offsite railway field maple, 3m tall
O05 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not plotted on topo
O05 010	Young dead stem
O05 011	Bramble, Hawthorn felled out-of-scope hedging
O05 012	Bramble, Hawthorn, Blackthorn felled out-of-scope hedging
O05 013	Saplings with tree protection measures.
O05 014	Saplings with tree protection measures.
O05 015	Sub 75mm predominantly blackthorn
O05 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
O05 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, hawthorn
O05 018	Off-site adjacent to railway side, self established young thorn & maple
O05 019	Off-site adjacent to railway side, self established young thorn & dogrose
O05 020	Scrub - willow, laurel, sapling hawthorn
O05 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall

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PROJECT TITLE  
**Steeple (5343)**

DRAWING TITLE  
**Tree Survey Plan**

SCALE	<b>Scale: 1:2,000 @ A1</b>	DRAWING NUMBER	<b>BHA_5343_01</b>
DRAWN BY	<b>TS</b>	REVISION	<b>2 of 19</b>
APPROVED BY	<b>TH</b>	DATE	<b>14/05/2024</b>
COORDINATE SYSTEM / DATUM	<b>British National Grid / Newlyn Datum (AOD)</b>		

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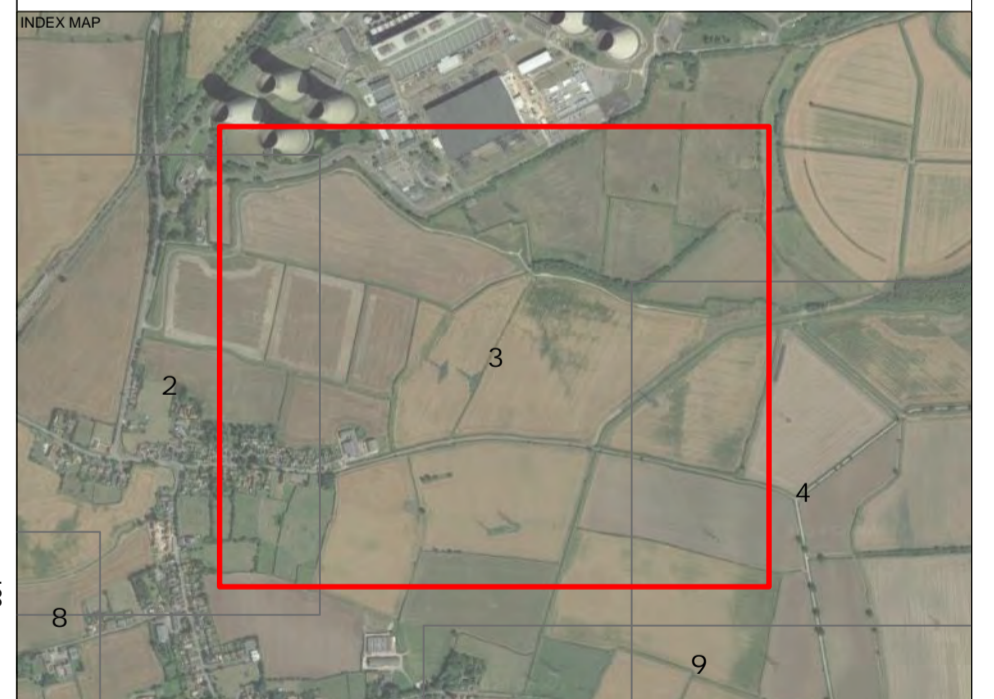




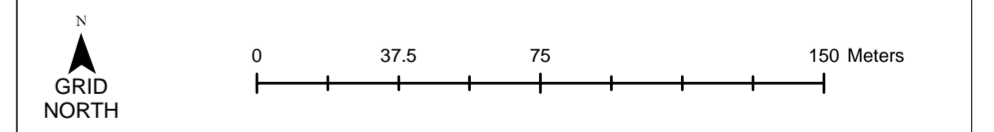
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O05 001	Offsite ash, 8m tall
O05 002	Offsite ash, 8m tall
O05 003	Offsite ash, 8m tall
O05 004	Offsite ash, 8m tall
O05 005	Offsite ash, 8m tall
O05 006	Collapsed dead tree 12m into site
O05 007	Small mature ash - 7m tall
O05 008	Offsite railway field maple, 3m tall
O05 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not posted on top
O05 010	Young dead stem
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O05 019	Off-site adjacent to railway side, self established young thorn & dogrose
O05 020	Scrub - willow, laurel, sowing hawthorn
O05 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall

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TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPA's
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DRAWN BY: **TH** APPROVED BY: **TH** SHEET: **3 of 19** DATE: **14/05/2024**

COORDINATE SYSTEM / DATUM: **British National Grid / Newlyn Datum (AOD)**

CLIENT: **RES**

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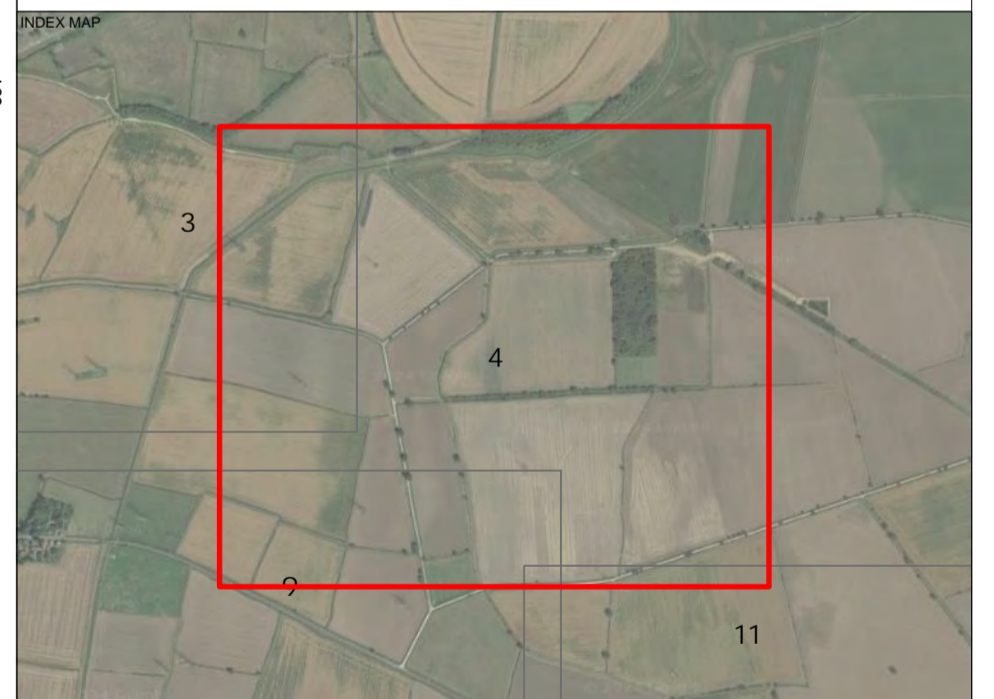




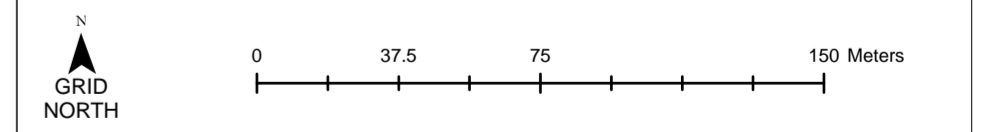
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REVISION	4 of 19	SHEET	DATE
COORDINATE SYSTEM / DATUM	British National Grid / Newlyn Datum (AOD)		
CLIENT	RES		

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 Eckington, Peshore, Worcestershire, WR10 3DN





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  - Ancient tree/woodland or Veteran tree: Important trees that require special consideration
  - Ancient tree/woodland or Veteran tree buffer: As per published standing advice from Natural England and the Forestry Commission
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  - Tree Preservation Order (TPO): Trees under statutory protection. No tree works to be undertaken without specific consent or by relevant exception. The site may be within a designated Conservation Area which restricts tree works. Please see attached advice and guidance.
  - Existing gateway or field access
  - Target Note

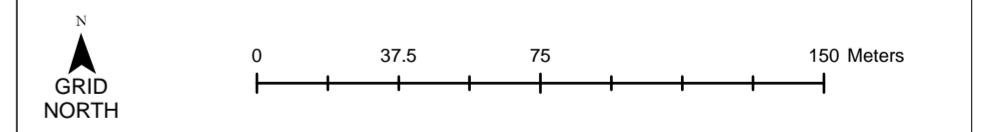
Label	Description
O05 001	Office ash, 8m tall
O05 002	Office ash, 8m tall
O05 003	Office ash, 8m tall
O05 004	Office ash, 8m tall
O05 005	Office ash, 8m tall
O05 006	Collapsed dead tree 12m into site
O05 007	Scrub mature ash - 7m tall
O05 008	Office railway field maple, 3m tall
O05 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not posted on top
O05 010	Young dead stem
O05 011	Bramble, Hawthorn felled out-of-scope hedging
O05 012	Bramble, Hawthorn, Blackthorn felled out-of-scope hedging
O05 013	Saplings with tree protection measures
O05 014	Saplings with tree protection measures
O05 015	Sub 75mm predominantly blackthorn
O05 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
O05 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, Hawthorn
O05 018	Off-site adjacent to railway side, self established young thorn & maple
O05 019	Off-site adjacent to railway side, self established young thorn & dogrose
O05 020	Scrub - willow, laurel, sapling laurel
O05 021	Area of scrub - elder, bramble, sapling Hawthorn mix - 2m tall

Label	Description
TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPAs
TN3	Oak trees within the hedgerow are set back from site redline beyond RPAs
TN4	Existing compacted earth and stone track



Note: The original of this drawing was produced in colour – a monochrome copy should not be relied upon. This drawing should be interpreted with reference to the accompanying tree schedule and written advice



PROJECT TITLE  
**Steeple (5343)**

DRAWING TITLE  
**Tree Survey Plan**

SCALE: **Scale: 1:2,000 @ A1** DRAWING NUMBER: **BHA\_5343\_01**

DRAWN BY <b>TB</b>	APPROVED BY <b>IH</b>	REVISION <b>5 of 19</b>	DATE <b>14/05/2024</b>
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COORDINATE SYSTEM / DATUM  
**British National Grid / Newlyn Datum (AOD)**

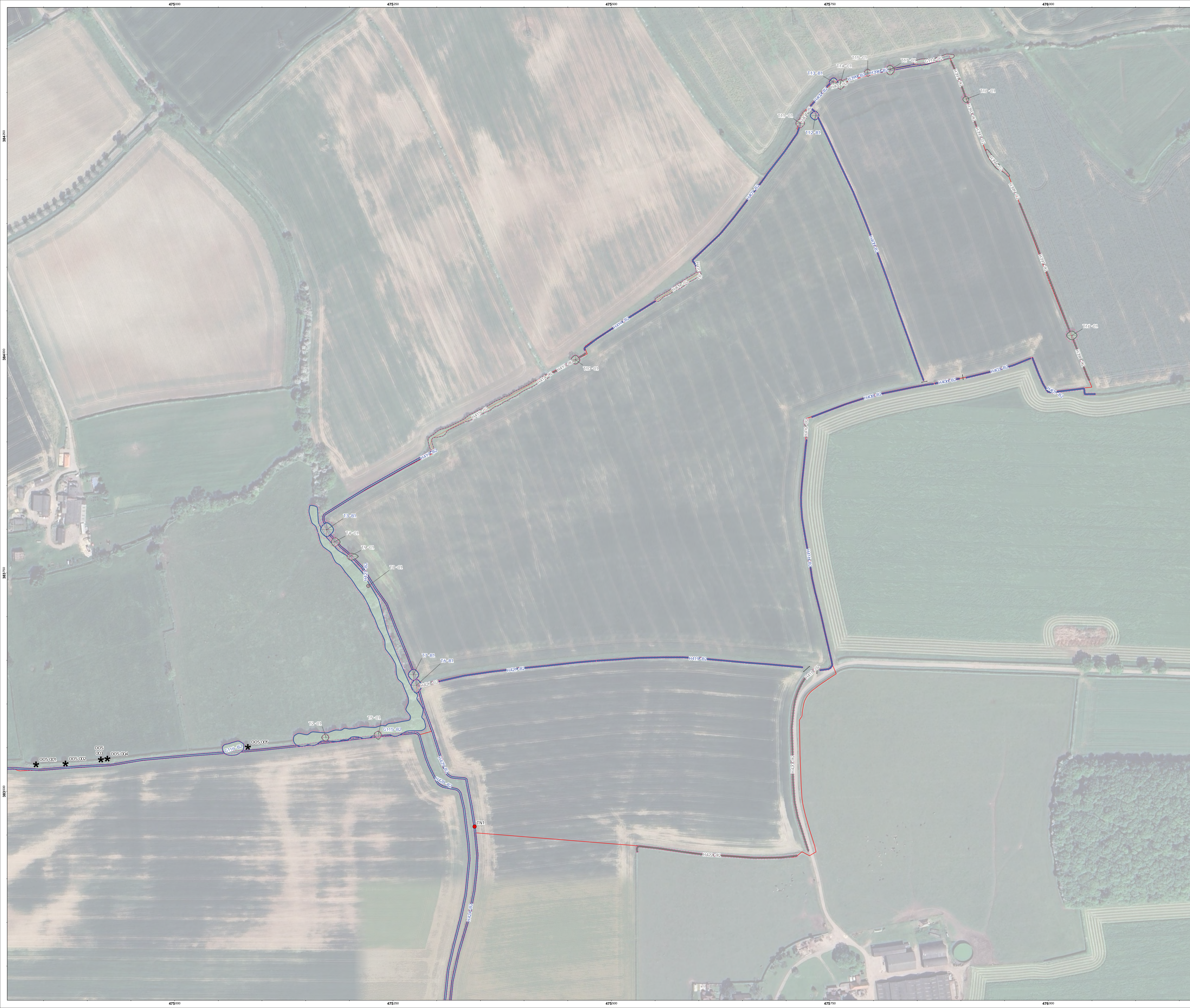
CLIENT  
**RES**

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**Barton Hyett Associates**  
 Arboricultural Consultants

Tel: 01386 576161  
 Address: Office 5E, Deer Park Business Centre,  
 Eckington, Pershore, Worcestershire, WR10 3DN





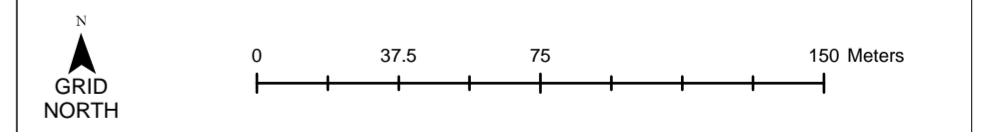
- KEY**
- Category A Tree - High quality (Retention highly desirable)
  - Category A - Hedgerow, Group, Woodland - High quality (Retention highly desirable)
  - Category B Tree - Moderate quality (Retention desirable)
  - Category B - Hedgerow, Group, Woodland - Moderate quality (Retention desirable)
  - Category C Tree - Low quality (May be retained but should not constrain development)
  - Category C - Hedgerow, Group, Woodland - Low quality (May be retained but should not constrain development)
  - Category U Tree - Very low quality (Mostly unsuitable for retention)
  - Category U - Hedgerow, Group, Woodland - Very low quality (Mostly unsuitable for retention)
  - Root Protection Area (RPA) - Layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and soil volume to maintain the tree's viability
  - Shrub mass/off-site tree/out of scope (OOS)
  - Tree/Group/Hedgerow not on topographical survey. Location given is an estimate
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  - Ancient tree/woodland or Veteran tree: Important trees that require special consideration
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  - Existing gateway or field access
  - Target Note

Label	Description
OOS 001	Office ash, 8m tall
OOS 002	Office ash, 8m tall
OOS 003	Office ash, 8m tall
OOS 004	Office ash, 8m tall
OOS 005	Office ash, 8m tall
OOS 006	Collapsed dead tree 12m into site
OOS 007	Small mature ash - 7m tall
OOS 008	Office railway field maple, 3m tall
OOS 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not posted on top
OOS 010	Young dead stem
OOS 011	Bramble, hawthorn felled out-of-scope hedging
OOS 012	Bramble, hawthorn, blackthorn felled out-of-scope hedging
OOS 013	Saplings with tree protection measures
OOS 014	Saplings with tree protection measures
OOS 015	Sub 75mm predominantly blackthorn
OOS 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
OOS 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, hawthorn
OOS 018	Off-site adjacent to railway side, self established young thorn & maple
OOS 019	Off-site adjacent to railway side, self established young thorn & dogrose
OOS 020	Scrub - willow, bramble, sapling hawthorn
OOS 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall

Label	Description
TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPA's
TN3	Oak trees within the hedgerow are set back from site redline beyond RPA's
TN4	Existing compacted earth and stone track



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PROJECT TITLE: **Steeple (5343)**

DRAWING TITLE: **Tree Survey Plan**

SCALE: **Scale: 1:2,000 @ A1** DRAWING NUMBER: **BHA\_5343\_01**

DRAWN BY: <b>TS</b>	APPROVED BY: <b>TS</b>	REVISION: <b>1</b>	SHEET: <b>6 of 19</b>	DATE: <b>14/05/2024</b>
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COORDINATE SYSTEM / DATUM: **British National Grid / Newlyn Datum (AOD)**

CLIENT: **RES**

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Arboricultural Consultants

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Address: Office 5E, Deer Park Business Centre, Eickington, Pershore, Worcestershire, WR10 3DN





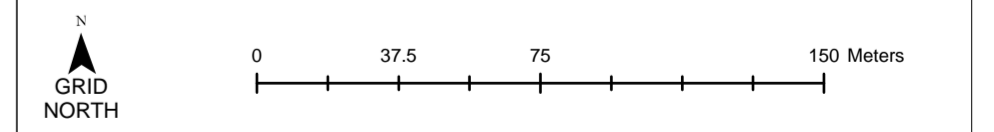
- KEY**
- Category A Tree - High quality (Retention highly desirable)
  - Category A - Hedgerow, Group, Woodland - High quality (Retention highly desirable)
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  - Category B - Hedgerow, Group, Woodland - Moderate quality (Retention desirable)
  - Category C Tree - Low quality (May be retained but should not constrain development)
  - Category C - Hedgerow, Group, Woodland - Low quality (May be retained but should not constrain development)
  - Category U Tree - Very low quality (Mostly unsuitable for retention)
  - Category U - Hedgerow, Group, Woodland - Very low quality (Mostly unsuitable for retention)
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Label	Description
OOS 001	Offsite ash, 8m tall
OOS 002	Offsite ash, 9m tall
OOS 003	Offsite ash, 9m tall
OOS 004	Offsite ash, 8m tall
OOS 005	Offsite ash, 8m tall
OOS 006	Collapsed dead tree 12m into site
OOS 007	Small mature ash - 7m tall
OOS 008	Offsite railway field maple, 3m tall
OOS 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not plotted on topo
OOS 010	Young dead stem
OOS 011	Bramble, Hawthorn felled out-of-scope hedging
OOS 012	Bramble, Hawthorn, Blackthorn felled out-of-scope hedging
OOS 013	Saplings with tree protection measures
OOS 014	Saplings with tree protection measures
OOS 015	Sub 75mm predominantly blackthorn
OOS 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
OOS 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, hawthorn
OOS 018	Off-site adjacent to railway side, self established young thorn & maple
OOS 019	Off-site adjacent to railway side, self established young thorn & dogrose
OOS 020	Stand - willow, laurel, sapling laureum
OOS 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall

Label	Description
TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPA's
TN3	Oak trees within the hedgerow are set back from site redline beyond RPA's
TN4	Existing compacted earth and stone track



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PROJECT TITLE	Steeple (5343)		
DRAWING TITLE	Tree Survey Plan		
SCALE	Scale: 1:2,000 @ A1	DRAWING NUMBER	BHA_5343_01
DRAWN BY	APPROVED BY	REVISION	SHEET
TB	BH	7 of 19	DATE
14/05/2024			
COORDINATE SYSTEM / DATUM			
British National Grid / Newlyn Datum (AOD)			
CLIENT			
RES			
CREDITS			
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Arboricultural Consultants

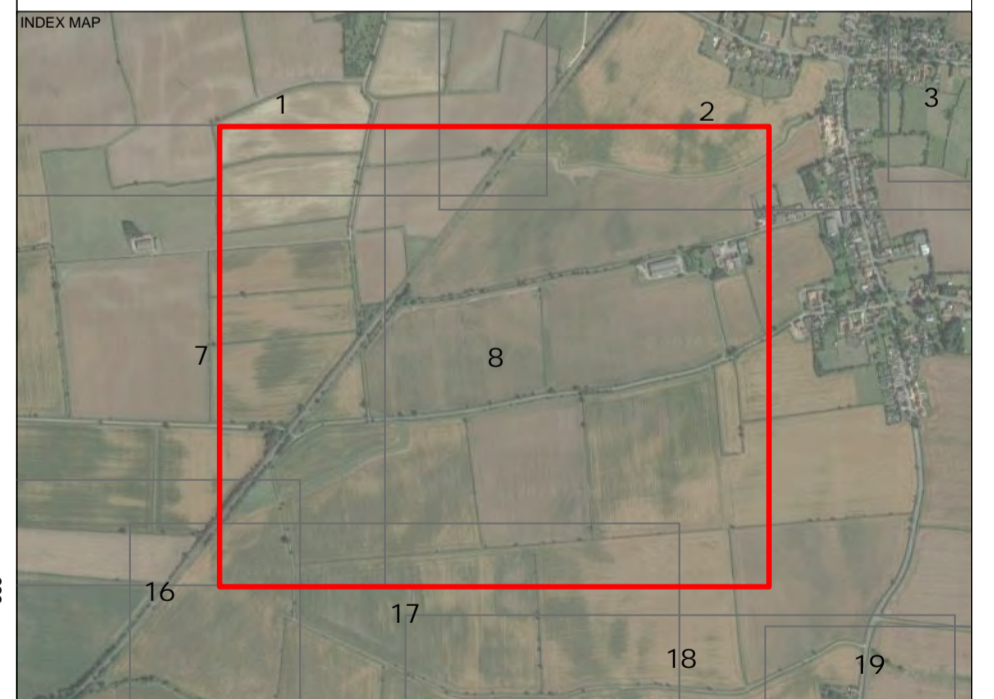
Tel: 01386 576161  
Address: Office 5E, Deer Park Business Centre,  
Eckington, Peshore, Worcestershire, WR10 3DN



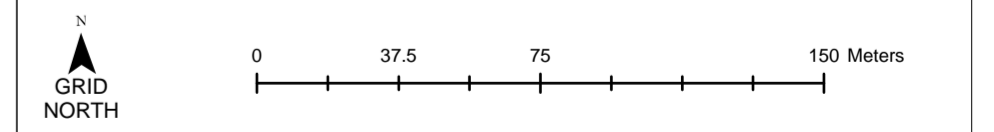


- KEY**
- Category A Tree - High quality (Retention highly desirable)
  - Category A - Hedgerow, Group, Woodland - High quality (Retention highly desirable)
  - Category B Tree - Moderate quality (Retention desirable)
  - Category B - Hedgerow, Group, Woodland - Moderate quality (Retention desirable)
  - Category C Tree - Low quality (May be retained but should not constrain development)
  - Category C - Hedgerow, Group, Woodland - Low quality (May be retained but should not constrain development)
  - Category U Tree - Very low quality (Mostly unsuitable for retention)
  - Category U - Hedgerow, Group, Woodland - Very low quality (Mostly unsuitable for retention)
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  - Target Note

Label	Description
OOS 001	Offsite ash, 8m tall
OOS 002	Offsite ash, 9m tall
OOS 003	Offsite ash, 9m tall
OOS 004	Offsite ash, 9m tall
OOS 005	Offsite ash, 8m tall
OOS 006	Collapsed dead tree 12m into site
OOS 007	Scrub mature ash - 7m tall
OOS 008	Offsite railway field maple, 3m tall
OOS 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not posted on top
OOS 010	Young dead stem
OOS 011	Bramble, hawthorn felled out-of-scope hedging
OOS 012	Bramble, hawthorn, blackthorn felled out-of-scope hedging
OOS 013	Saplings with tree protection measures
OOS 014	Saplings with tree protection measures
OOS 015	Sub 75mm predominantly blackthorn
OOS 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
OOS 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, hawthorn
OOS 018	Off-site adjacent to railway side, self established young thorn & maple
OOS 019	Off-site adjacent to railway side, self established young thorn & dogrose
OOS 020	Scrub - willow, laurel, sapling hawthorn
OOS 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall
TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPAs
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TN4	Existing compacted earth and stone track



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PROJECT TITLE			
Steeple (5343)			
DRAWING TITLE			
Tree Survey Plan			
SCALE	Scale: 1:2,000 @ A1	DRAWING NUMBER	BHA_5343_01
DRAWN BY	TS	APPROVED BY	BH
REVISION	8 of 19	DATE	14/05/2024
COORDINATE SYSTEM / DATUM			
British National Grid / Newlyn Datum (AOD)			
CLIENT			
RES			
CREDITS			
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Address: Office 5E, Deer Park Business Centre, Eckington, Peshore, Worcestershire, WR10 3DN

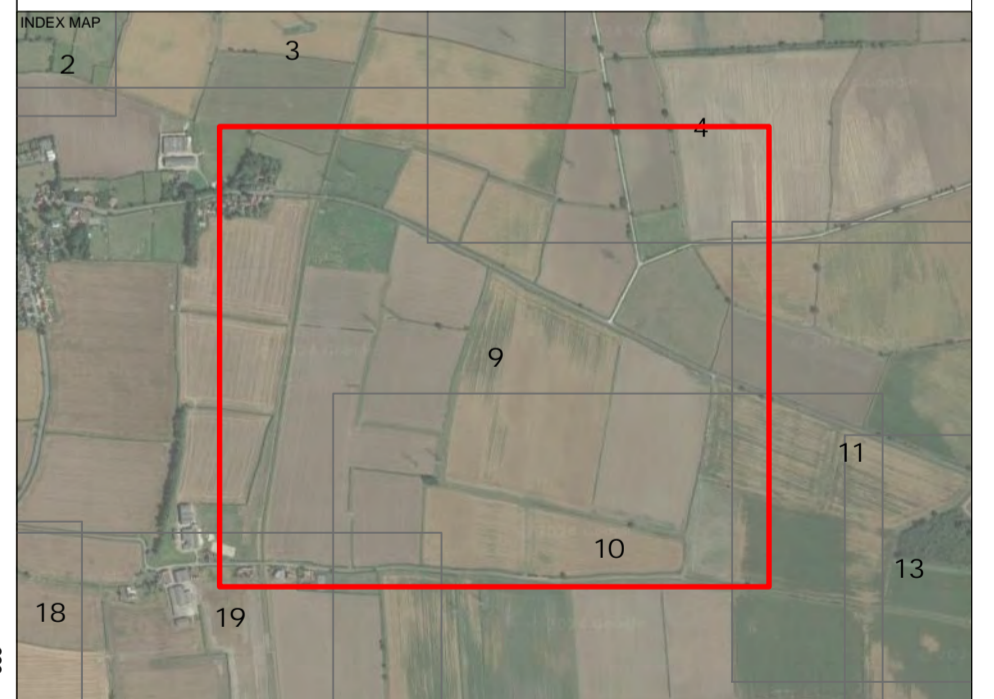




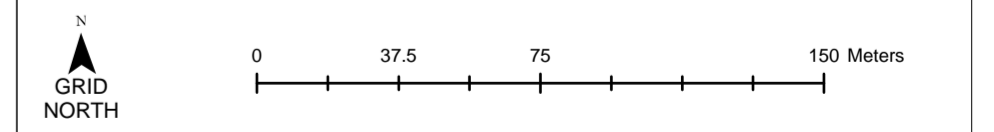
- KEY**
- Category A Tree - High quality (Retention highly desirable)
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OOS 003	Offsite ash, 9m tall
OOS 004	Offsite ash, 9m tall
OOS 005	Offsite ash, 8m tall
OOS 006	Collapsed dead tree 12m into site
OOS 007	Small mature ash - 7m tall
OOS 008	Offsite railway field maple, 3m tall
OOS 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not posted on top
OOS 010	Young dead stem
OOS 011	Bramble, Hawthorn felled out of-escape hedging
OOS 012	Bramble, Hawthorn, Blackthorn felled out of-escape hedging
OOS 013	Saplings with tree protection measures.
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OOS 015	Sub 75mm predominantly blackthorn
OOS 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
OOS 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, hawthorn
OOS 018	Off-site adjacent to railway side, self established young thorn & maple
OOS 019	Off-site adjacent to railway side, self established young thorn & dogrose
OOS 020	Small - willow, laurel, sapling hawthorn
OOS 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall

Label	Description
TW1	Public survey access
TW2	Oak trees within the hedgerow are set back from site redline beyond RPA's
TW3	Oak trees within the hedgerow are set back from site redline beyond RPA's
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PROJECT TITLE  
**Steeple (5343)**

DRAWING TITLE  
**Tree Survey Plan**

SCALE: **Scale: 1:2,000 @ A1** DRAWING NUMBER: **BHA\_5343\_01**

DRAWN BY	APPROVED BY	REVISION	SHEET	DATE
TH	TH	TH	9 of 19	14/05/2024

COORDINATE SYSTEM / DATUM: **British National Grid / Newlyn Datum (AOD)**

CLIENT: **RES**

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Address: Office 5E, Deer Park Business Centre, Eckington, Peshore, Worcestershire, WR10 3DN

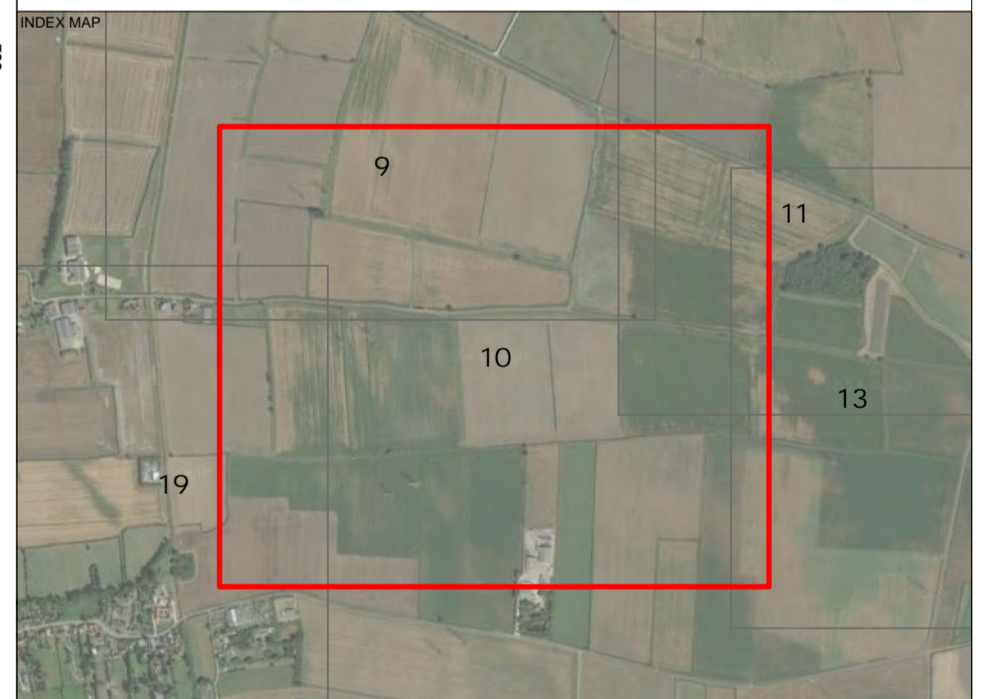




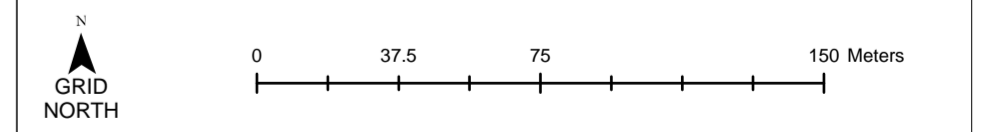
- KEY**
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Label	Description
TN1	Public survey access
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PROJECT TITLE	Steeple (5343)		
DRAWING TITLE	Tree Survey Plan		
SCALE	Scale: 1:2,000 @ A1	DRAWING NUMBER	BHA_5343_01
DRAWN BY	APPROVED BY	REVISION	SHEET
TH	TH	10 of 19	DATE 14/05/2024
COORDINATE SYSTEM / DATUM British National Grid / Newlyn Datum (AOD)			
CLIENT	RES		
CREDITS	Crown copyright. All rights reserved. 2024 Ordnance Licence number 0100642064. Ordnance Survey Copyright Licence number 100054267.		

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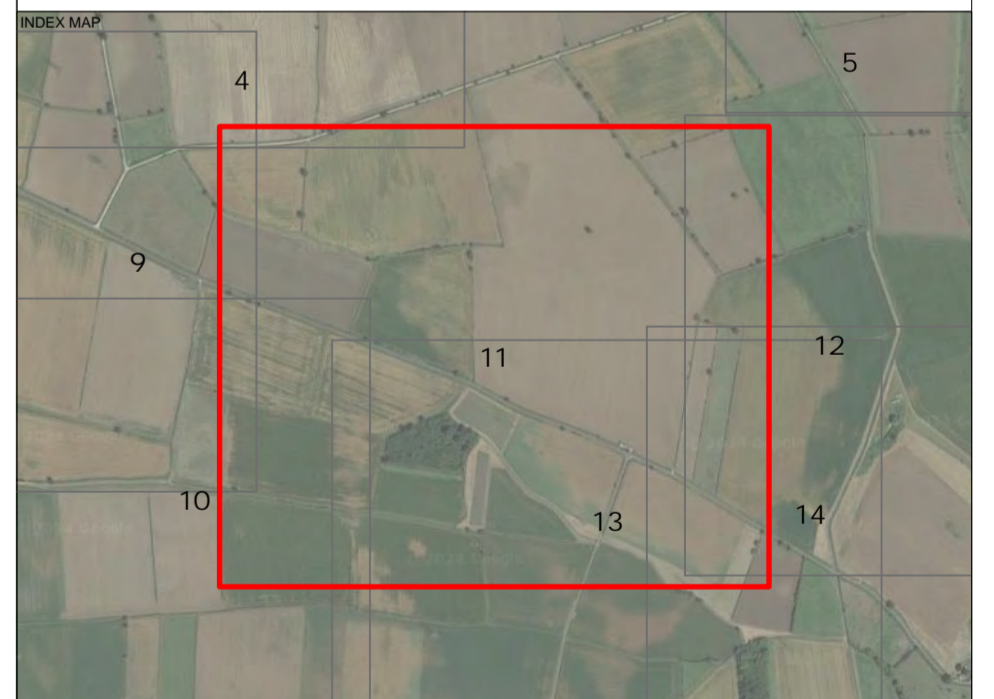




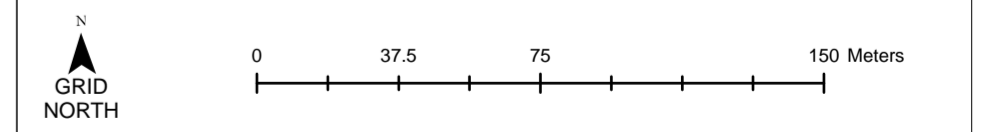
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OOS 011	Bramble, Hawthorn felled out-of-scope hedging
OOS 012	Bramble, Hawthorn, Blackthorn felled out-of-scope hedging
OOS 013	Saplings with tree protection measures.
OOS 014	Saplings with tree protection measures.
OOS 015	Sub 75mm predominantly blackthorn
OOS 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
OOS 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, hawthorn
OOS 018	Off-site adjacent to railway side, self established young thorn & maple
OOS 019	Off-site adjacent to railway side, self established young thorn & dogrose
OOS 020	Small - willow, laurel, sapling hawthorn
OOS 021	Area of scrub - elder, bramble, sapling hawthorn max - 2m tall

Label	Description
TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPAs
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TN4	Existing compacted earth and stone track



Note: The original of this drawing was produced in colour – a monochrome copy should not be relied upon. This drawing should be interpreted with reference to the accompanying tree schedule and written advice



PROJECT TITLE	Steeple (5343)		
DRAWING TITLE	Tree Survey Plan		
SCALE	Scale: 1:2,000 @ A1	DRAWING NUMBER	BHA_5343_01
DRAWN BY	APPROVED BY	REVISION	SHEET
TS	BH	11 of 19	DATE 14/05/2024
COORDINATE SYSTEM / DATUM British National Grid / Newlyn Datum (AOD)			
CLIENT RES			
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Arboricultural Consultants

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Eckington, Peshore, Worcestershire, WR10 3DN





# ARBORICULTURAL SURVEY REPORT

Steeple Renewables  
Project

May 2024



**Barton Hyett Associates**  
Arboricultural Consultants



Summary table		
Site Name:	Steeple Renewables Project	
Project reference:	5343	
Site Address:	Fenton Lane, Fenton, Sturton le Steeple	
Nearest Postcode:	DN22 9HF	
Central Grid reference:	<a href="#">SK 79739 83342</a>	
Local Planning Authority:	Bassetlaw District Council	
Relevant planning policies:	Bassetlaw Local Plan 2020-2038, Bassetlaw District Local Development Framework November 2010	
Statutory Controls:	Tree Preservation Order	Conservation Area
	<a href="#">TBC</a> - awaiting LPA response.	None
Soil Type: (Source: BGS online soils map © NERC 2024)	Superficial/Drift	Bedrock
	Holme Pierrepont Sand and Gravel Member - Sand and gravel	Mercia Mudstone Group - Mudstone
Topographical Survey:	220847_ All Areas_2D	
Report author:	Ian Howell BA (Hons), Dip Arb L4 (ABC), TechArborA	
Checked by:	Richard Hyett MSc, BSc (Hons), MICFor, MArborA	
Date of issue:	22.05.2024	

## REPORT CONTENTS:

SECTION 1:	TREE SURVEY & SITE IMAGES
SECTION 2:	TREE SURVEY & CONSTRAINTS PLAN
SECTION 3:	TREE SURVEY SCHEDULE
SECTION 4:	METHODOLOGY
SECTION 5:	DESIGN GUIDANCE AND GENERIC ADVICE



## 1. INSTRUCTION

- 1.1. Barton Hyett Associates Ltd has been instructed by RES to survey trees located on land at Fenton Lane, Fenton, Sturton le Steeple ('the Site') in accordance with the recommendations of British Standard 5837:2012 'Trees in relation to design, demolition and construction - recommendations'.
- 1.2. The scope of the instruction was to inspect trees relevant to a Proposed Development comprising of a solar farm and associated infrastructure. The instruction also requires Barton Hyett Associates to provide written advice on arboriculture matters in order to inform design options for the Proposed Development..
- 1.3. Due the scale of the Proposed Development a submission will be made to the Secretary of State for the Department of Business, Energy and Industrial Strategy in order to gain permission via a Development Consent Order. The Examining Authority (EA) is The Planning Inspectorate (PI).

## 2. SITE DESCRIPTION

- 2.1. The Site lies approximately 6km south west of Gainsborough , between Lincoln and Doncaster, and is made up of agricultural land with field boundaries defined by a mixture of hedgerows and ditches.
- 2.2. The survey area is predominantly used for arable crop production and measures approximately 8 km by 3.4 km. The Site is broadly flat but undulates gently throughout.
- 2.3. There are various named and unnamed side roads running through the Site with private roads providing access to various existing farmyards.
- 2.4. Access to the Site is possible from these private roads and on foot via several Public Rights of Way (PRoW) which cross the Site.
- 2.5. The surrounding area is agricultural land with occasional farmyards, plantations, copses and outlying dwellings. The village of Sturton le Steeple is located at the centre of the Site.

## 3. TREE SURVEY FINDINGS

- 3.1. The survey recorded 1045 arboricultural features. These are summarised in terms of quality in accordance with the recommendations of BS 5837:2012 in Table 1 and shown in more detail on the Tree Survey and Constraints Plan (**Section 2**) and within the Tree Survey Schedule (**Section 3**).
- 3.2. The trees and features recorded as Out Of Scope (OOS) refer to either a dead-standing or failed tree; a stump; ruderal species or minor shrubs; where trees are inaccessible or located off-site and unlikely to be affected by the development or, it is found that the trees are undersized according to BS 5837:2012, which stipulates a minimum recordable stem diameter of 75mm.

Table 1: arboricultural features by type and quality category.

	Total	A - High quality trees whose retention is most desirable.	B - Moderate quality trees whose retention is desirable.	C - Low quality trees which could be retained but should not significantly constrain the proposal.	U - Very poor quality trees that should be removed unless they have high conservation value.
<b>Trees</b>	<b>496</b>	36	215	243	2
<b>Groups</b>	<b>116</b>	6	60	50	-
<b>Woodland</b>	<b>3</b>	-	3	-	-
<b>Hedgerows</b>	<b>430</b>	-	317	111	2
<b>Total</b>	<b>1045</b>	<b>42</b>	<b>595</b>	<b>404</b>	<b>4</b>

## 4. KEY ARBORICULTURAL FEATURES

- 4.1. No Ancient Semi-Natural Woodlands (ASNW) are associated with the Site (source: DEFRA online mapping resource 'MAGIC Maps' Ancient Woodland inventory).
- 4.2. Thirty-six individual trees and six groups of trees have been recorded as high-quality (BS 5837:2012 Category A) features. The species of trees break down as twenty oak, one crab apple, four maple, six willow, one hawthorn, three ash, one lime and groups of oak, ash, lime, willow and sycamore. These trees are particularly good examples of their species which are prominent within the landscape, of excellent form and condition, with a long life expectancy and a limited number of defects noted.
- 4.3. To the west of the Site, bounding the River Trent, is a large area of wetland habitat that is home to many mature willow trees including crack willow, white willow, goat willow and osier willow. This whole area of tree cover was recorded as a BS 5837:2012 Category A tree group with the subcategory '3' due to the conservation and ecological value of this habitat and also the trees within.
- 4.4. One off-site oak (T493) has been recorded as a 'veteran' tree. However, it could also be considered to be 'ancient' due to its exceptionally large stem diameter. This tree is located outside of the Site redline boundary but the applied 30m buffer extends into the bounds of the eastern most portion of the site.
- 4.5. As is typical for many agricultural settings, the vast majority of the sites mature trees are to be found within the field boundary hedgerows. On this Site many of the hedgerows often have deep and well-maintained drainage ditches that run parallel on one or both sides of the hedgerows.

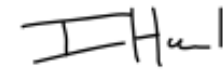


## 5. CONSTRAINTS AND OPPORTUNITIES

- 5.1. The Root Protection Areas (RPAs) of high and moderate-quality trees and tree groups should be respected and avoided by any development, including ground-level changes, access roads, foundations, hard surfacing and underground cable runs. The same is true of the buffer associated to the single veteran/ancient tree (T493).
- 5.2. Due to the agricultural usage of the site, the vast majority of the recorded arboricultural resource is located along the field boundaries. The nature of the Proposed Development means that retaining the majority of trees will be possible. Utilising existing field gateways and access routes for locating construction/maintenance tracks and cables is advisable.
- 5.3. Detrimental impacts from development might include, but are not limited to, damage to roots and understorey, damage to or compaction of soil around the tree roots and changes to the water table or drainage within the soil around a tree.
- 5.4. It is also important to consider the future growth potential of the trees at the site in order to allow for the potential for shading and encroachment from tree canopies and how this may impact the site in the future. The aim is to avoid the post-development need to carry out unnecessary pruning or felling of retained trees.
- 5.5. In relation to the installation of underground cables across the site, generic guidance relating to the installation of underground cabling in close proximity to tree roots has been compiled in volume 4 of the National Joint Utilities Group (NJUG) guidance.
- 5.6. For the installation of utilities (including cables) refer to Section 4 'How To Avoid Damage To Trees' which details acceptable working methods relating to 'excavations or other works occurring within the Prohibited Zone or Precautionary Zone'. To summarise, the preferred approach is to avoid RPAs through the realignment of the proposed trench and cable. NJUG Volume 4 states: 'Whenever possible apparatus should always be diverted or re-aligned outside the Prohibited or Precautionary Zones. Under no circumstances can machinery be used to excavate open trenches within the Prohibited Zone'.
- 5.7. There is a good opportunity to improve the long-term tree cover through appropriate new trees or woodland planting. Suitable planting alongside existing features, new boundary or infrastructure features (e.g. attenuation ponds) and establishing new wildlife corridors to link existing ponds or woodland would help with improving biodiversity and connectivity.
- 5.8. There is also an opportunity to enhance the existing, low and moderate-quality hedgerows with supplementary planting to fill in gaps. Re-stocking existing hedgerows where gaps are appearing, re-defining existing boundaries and establishing some new sections of hedgerow will ensure better connectivity in terms of wildlife corridors.
- 5.9. Please see **Section 5** for further advice and guidance on designing new developments near trees.

## 6. CONCLUSION AND RECOMMENDATIONS

- 6.1. The information contained within this report should be used in the preparation of design proposals for the site, in order to minimise negative arboricultural impacts.
- 6.2. The RPAs of recorded arboricultural features should be considered sacrosanct and the Proposed Development (e.g. infrastructure for the short to long-term construction) should be planned to avoid these areas wherever possible.
- 6.3. The developable area of the Site is focused within the interior of existing agricultural fields and is therefore relatively free from arboricultural constraints. On this basis, the development of the Site to include a solar farm is feasible from an arboricultural perspective.
- 6.4. There is ample opportunity across the site to establish new trees or enhance hedgerows and the existing gateways and access track should be used wherever feasible.
- 6.5. As the design of the Proposed Development progresses the Works Plans and other associated plans/drawings should be reviewed by the project arboriculturist to assist in proactively designing out arboricultural impacts.



Ian Howell BA (Hons), Dip Arb L4 (ABC), TechArborA  
Arboriculturist





IMAGE 1: Veteran/ancient English oak tree. Located just outside of the bounds of the site.



IMAGE 2: Wetland habitat adjacent to the River Trent containing many mature willow trees.



IMAGE 3: Mature crack willow pollard.



IMAGE 4: Category A English oak located within the hedgerow with an existing farm access track adjacent.



IMAGE 5: Typical dense and mature native mixed species hedgerow parallel to an existing farm access track.



IMAGE 6: Mature and prominent common ash trees G15 (Category A3).





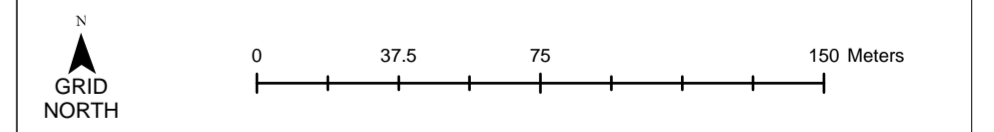
- KEY**
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  - Category A - Hedgerow, Group, Woodland - High quality (Retention highly desirable)
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  - Existing gateway or field access
  - Target Note

Label	Description
OOS 001	Offsite ash, 8m tall
OOS 002	Offsite ash, 9m tall
OOS 003	Offsite ash, 9m tall
OOS 004	Offsite ash, 9m tall
OOS 005	Offsite ash, 8m tall
OOS 006	Collapsed dead tree 12m into site
OOS 007	Small mature ash - 7m tall
OOS 008	Offsite railway field maple, 3m tall
OOS 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not posted on top
OOS 010	Young dead stem
OOS 011	Bramble, hawthorn felled out-of-scope hedging
OOS 012	Bramble, hawthorn, blackthorn felled out-of-scope hedging
OOS 013	Saplings with tree protection measures
OOS 014	Saplings with tree protection measures
OOS 015	Sub 75mm predominantly blackthorn
OOS 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
OOS 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, hawthorn
OOS 018	Off-site adjacent to railway side, self established young thorn & maple
OOS 019	Off-site adjacent to railway side, self established young thorn & dogrose
OOS 020	Stash - willow, laurel, sapling hawthorn
OOS 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall

Label	Description
TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPAs
TN3	Oak trees within the hedgerow are set back from site redline beyond RPAs
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Scale: 1:2,000 @ A1			
DRAWN BY	APPROVED BY	REVISION	SHEET
TS	BH	1	1 of 19
COORDINATE SYSTEM / DATUM		DATE	
British National Grid / Newlyn Datum (AOD)		14/05/2024	
CLIENT		RES	
CREDITS			
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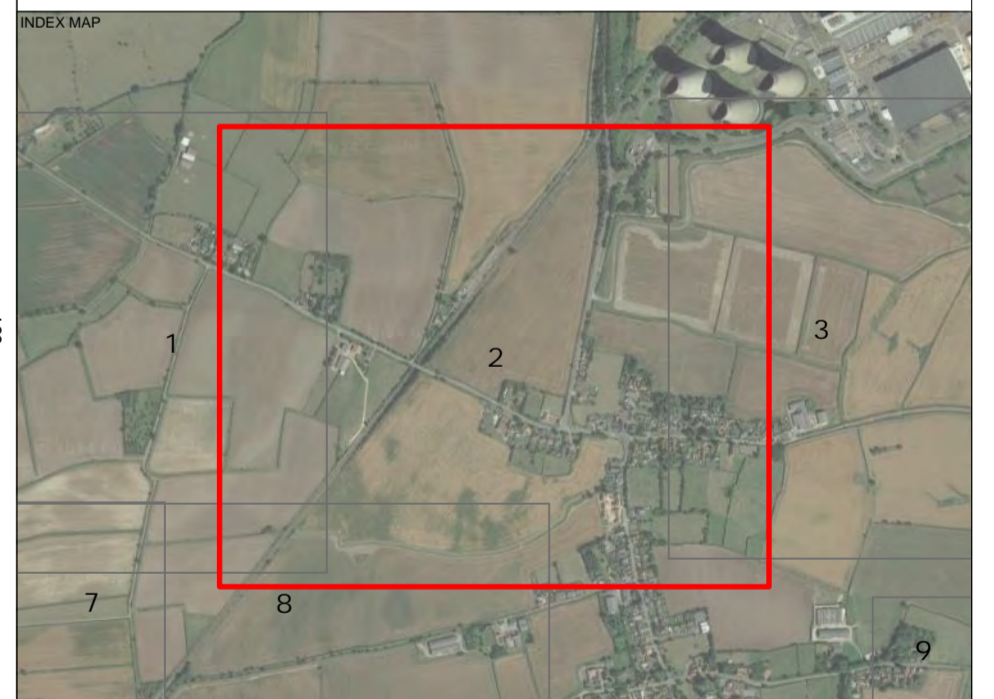




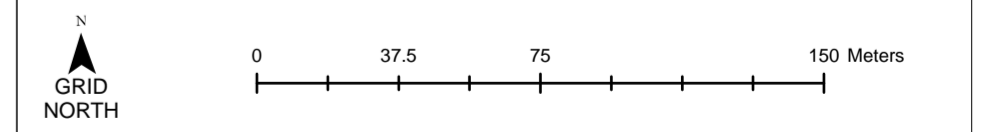
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O05 001	Offsite ash, 8m tall
O05 002	Offsite ash, 8m tall
O05 003	Offsite ash, 8m tall
O05 004	Offsite ash, 8m tall
O05 005	Offsite ash, 8m tall
O05 006	Collapsed dead tree 12m into site
O05 007	Some mature ash - 7m tall
O05 008	Offsite railway field maple, 3m tall
O05 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not plotted on topo
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SCALE	<b>Scale: 1:2,000 @ A1</b>	DRAWING NUMBER	<b>BHA_5343_01</b>
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APPROVED BY	<b>TS</b>	DATE	<b>14/05/2024</b>
COORDINATE SYSTEM / DATUM	<b>British National Grid / Newlyn Datum (AOD)</b>		

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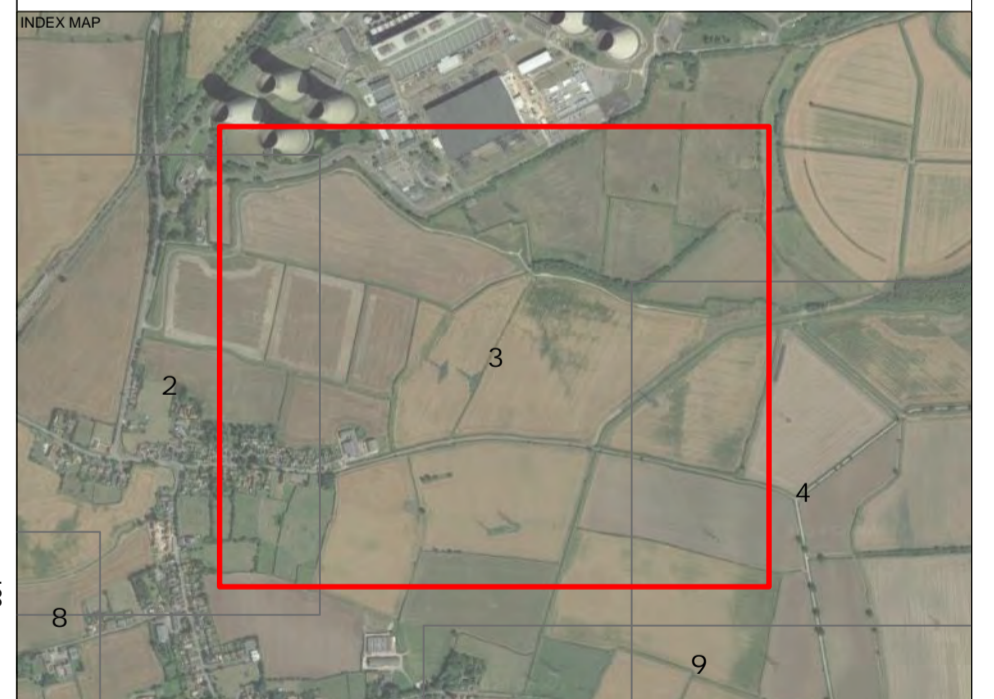




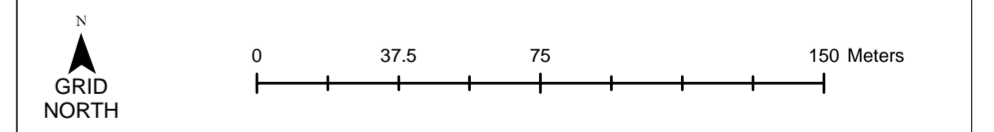
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DRAWN BY: **TH** APPROVED BY: **TH** SHEET: **3 of 19** DATE: **14/05/2024**

COORDINATE SYSTEM / DATUM: **British National Grid / Newlyn Datum (AOD)**

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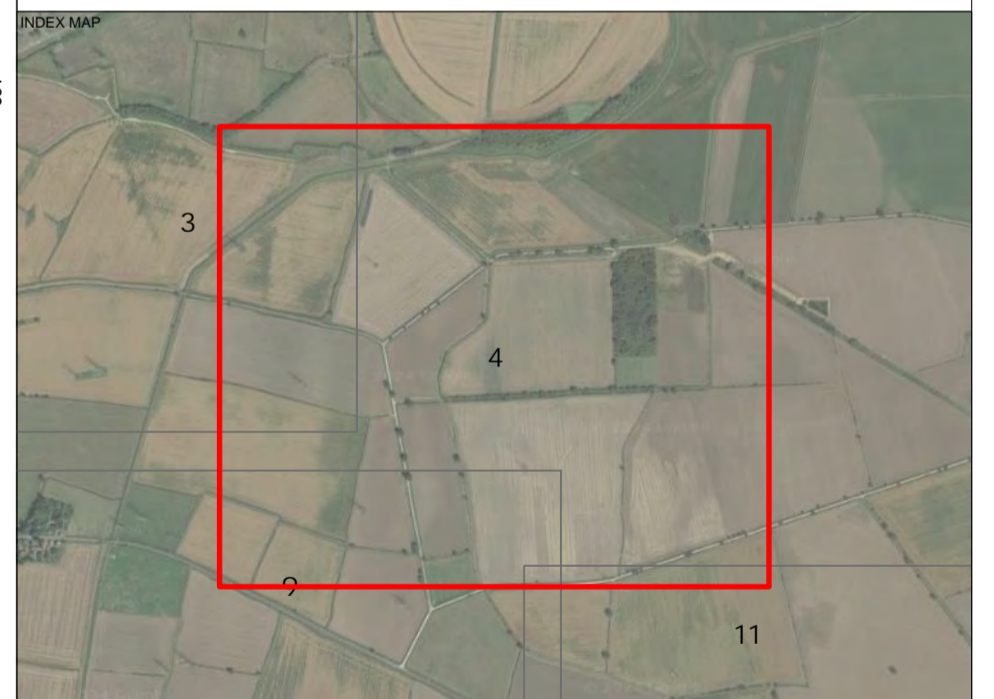




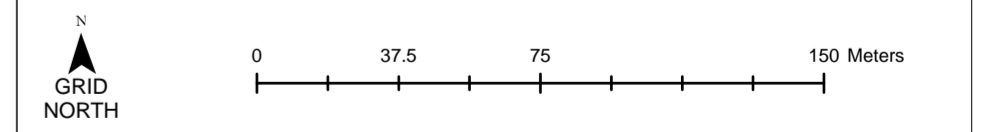
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O05 013	Saplings with tree protection measures
O05 014	Saplings with tree protection measures
O05 015	Sub 75mm predominantly blackthorn
O05 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
O05 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, hawthorn
O05 018	Off-site adjacent to railway side, self established young thorn & maple
O05 019	Off-site adjacent to railway side, self established young thorn & dogrose
O05 020	Scrub - elder, laurel, sapling hawthorn
O05 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall

Label	Description
TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPAs
TN3	Oak trees within the hedgerow are set back from site redline beyond RPAs
TN4	Existing compacted earth and stone track



Note: The original of this drawing was produced in colour – a monochrome copy should not be relied upon. This drawing should be interpreted with reference to the accompanying tree schedule and written advice



PROJECT TITLE  
**Steeple (5343)**

DRAWING TITLE  
**Tree Survey Plan**

SCALE	Scale: 1:2,000 @ A1	DRAWING NUMBER	BHA_5343_01
DRAWN BY	TH	REVISION	4 of 19
DATE	14/05/2024		

COORDINATE SYSTEM / DATUM  
**British National Grid / Newlyn Datum (AOD)**

CLIENT  
**RES**

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Arboricultural Consultants  
Tel: 01386 576161  
Address: Office 5E, Deer Park Business Centre,  
Eckington, Peshore, Worcestershire, WR10 3DN





- KEY**
- Category A Tree - High quality (Retention highly desirable)
  - Category A - Hedgerow, Group, Woodland - High quality (Retention highly desirable)
  - Category B Tree - Moderate quality (Retention desirable)
  - Category B - Hedgerow, Group, Woodland - Moderate quality (Retention desirable)
  - Category C Tree - Low quality (May be retained but should not constrain development)
  - Category C - Hedgerow, Group, Woodland - Low quality (May be retained but should not constrain development)
  - Category U Tree - Very low quality (Mostly unsuitable for retention)
  - Category U - Hedgerow, Group, Woodland - Very low quality (Mostly unsuitable for retention)
  - Root Protection Area (RPA) - Layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and soil volume to maintain the tree's viability
  - Shrub mass/offsite tree/out of scope (OOS)
  - Tree/Group/Hedgerow not on topographical survey. Location given is an estimate
  - Ancient Tree / Woodland or Veteran Trees**
  - Ancient tree/woodland or Veteran tree: Important trees that require special consideration
  - Ancient tree/woodland or Veteran tree buffer: As per published standing advice from Natural England and the Forestry Commission
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  - Existing gateway or field access
  - Target Note

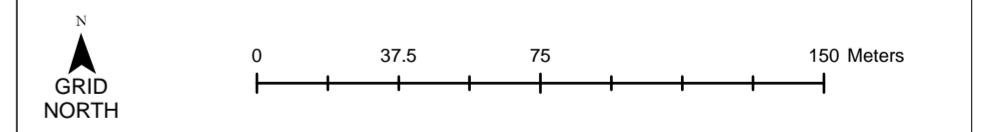
Label	Description
O05 001	Offsite ash, 8m tall
O05 002	Offsite ash, 8m tall
O05 003	Offsite ash, 8m tall
O05 004	Offsite ash, 8m tall
O05 005	Offsite ash, 8m tall
O05 006	Collapsed dead tree 12m into site
O05 007	Small mature ash - 7m tall
O05 008	Offsite railway field maple, 3m tall
O05 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not planted on top
O05 010	Young dead stem
O05 011	Bramble, Hawthorn felled out-of-scope hedging
O05 012	Bramble, Hawthorn, Blackthorn felled out-of-scope hedging
O05 013	Saplings with tree protection measures
O05 014	Saplings with tree protection measures
O05 015	Sub 75mm predominantly blackthorn
O05 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
O05 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, Hawthorn
O05 018	Off-site adjacent to railway side, self established young thorn & maple
O05 019	Off-site adjacent to railway side, self established young thorn & dogrose
O05 020	Shrub - elder, laurel, sapling Hawthorn
O05 021	Area of scrub - elder, Bramble, sapling Hawthorn mix - 2m tall

Label	Description
TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPAs
TN3	Oak trees within the hedgerow are set back from site redline beyond RPAs
TN4	Existing compacted earth and stone track



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PROJECT TITLE: Steeple (5343)

DRAWING TITLE: Tree Survey Plan

SCALE: Scale: 1:2,000 @ A1	DRAWING NUMBER: BHA_5343_01
DRAWN BY: TB	APPROVED BY: IH
SHEET: 5 of 19	DATE: 14/05/2024
COORDINATE SYSTEM / DATUM: British National Grid / Newlyn Datum (AOD)	
CLIENT: RES	

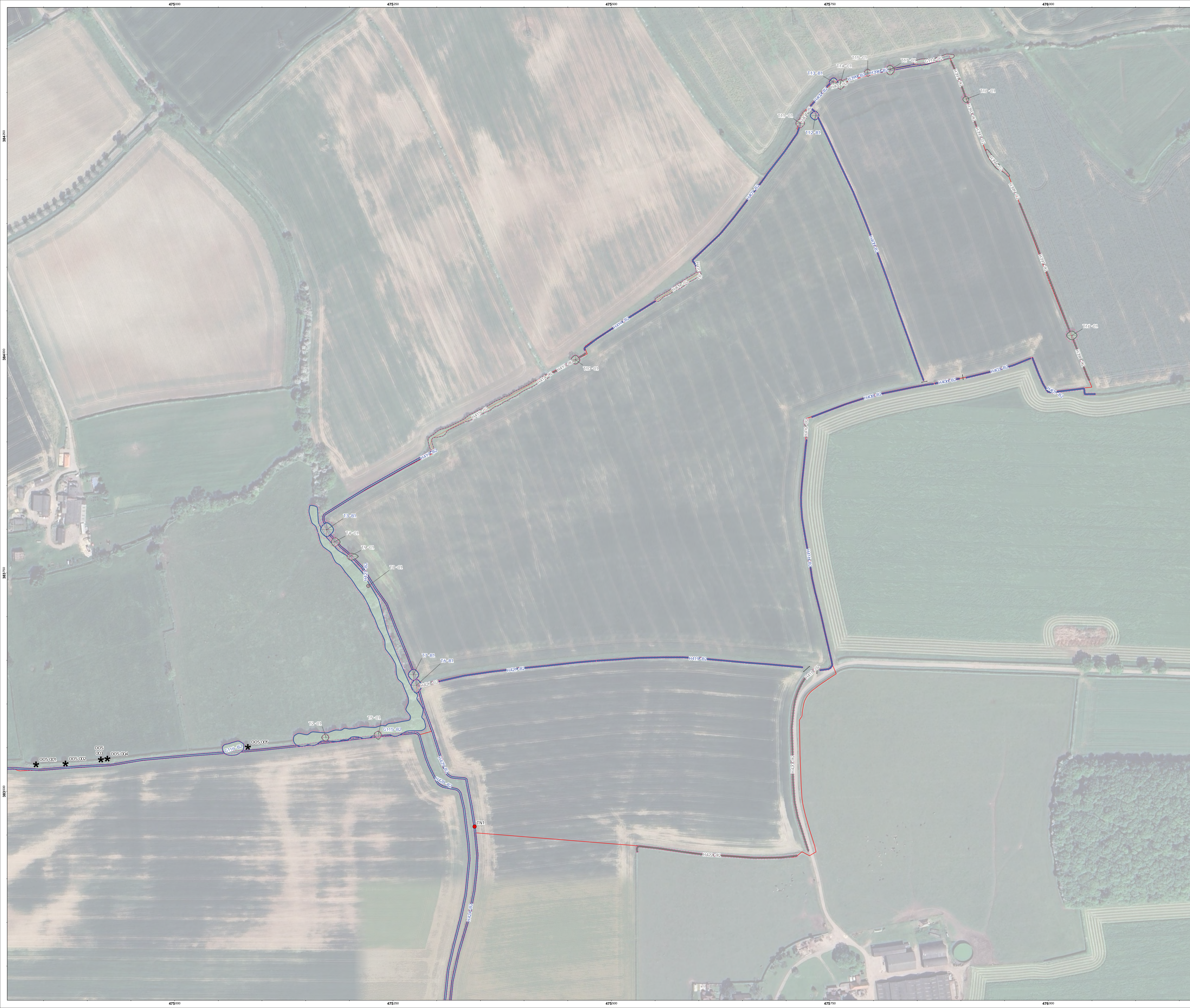
CREDITS

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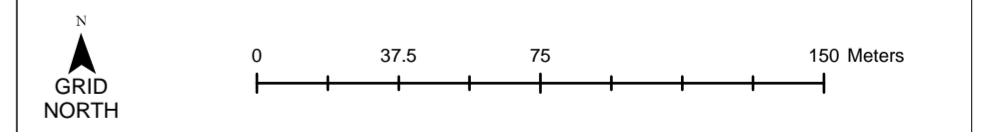
- KEY**
- Category A Tree - High quality (Retention highly desirable)
  - Category A - Hedgerow, Group, Woodland - High quality (Retention highly desirable)
  - Category B Tree - Moderate quality (Retention desirable)
  - Category B - Hedgerow, Group, Woodland - Moderate quality (Retention desirable)
  - Category C Tree - Low quality (May be retained but should not constrain development)
  - Category C - Hedgerow, Group, Woodland - Low quality (May be retained but should not constrain development)
  - Category U Tree - Very low quality (Mostly unsuitable for retention)
  - Category U - Hedgerow, Group, Woodland - Very low quality (Mostly unsuitable for retention)
  - Root Protection Area (RPA) - Layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and soil volume to maintain the tree's viability
  - Shrub mass/off-site tree/out of scope (OOS)
  - Tree/Group/Hedgerow not on topographical survey. Location given is an estimate
  - Ancient Tree / Woodland or Veteran Trees**
  - Ancient tree/woodland or Veteran tree: Important trees that require special consideration
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  - Existing gateway or field access
  - Target Note

Label	Description
OOS 001	Office ash, 8m tall
OOS 002	Office ash, 8m tall
OOS 003	Office ash, 8m tall
OOS 004	Office ash, 8m tall
OOS 005	Office ash, 8m tall
OOS 006	Collapsed dead tree 12m into site
OOS 007	Small mature ash - 7m tall
OOS 008	Office railway field maple, 3m tall
OOS 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not posted on top
OOS 010	Young dead stem
OOS 011	Bramble, hawthorn felled out-of-scope hedging
OOS 012	Bramble, hawthorn, blackthorn felled out-of-scope hedging
OOS 013	Saplings with tree protection measures
OOS 014	Saplings with tree protection measures
OOS 015	Sub 75mm predominantly blackthorn
OOS 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
OOS 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, hawthorn
OOS 018	Off-site adjacent to railway side, self established young thorn & maple
OOS 019	Off-site adjacent to railway side, self established young thorn & dogrose
OOS 020	Scrub - willow, bramble, sapling hawthorn
OOS 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall

Label	Description
TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPA's
TN3	Oak trees within the hedgerow are set back from site redline beyond RPA's
TN4	Existing compacted earth and stone track



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PROJECT TITLE: **Steeple (5343)**

DRAWING TITLE: **Tree Survey Plan**

SCALE: **Scale: 1:2,000 @ A1** DRAWING NUMBER: **BHA\_5343\_01**

DRAWN BY: <b>TS</b>	APPROVED BY: <b>TS</b>	REVISION: <b>1</b>	SHEET: <b>6 of 19</b>	DATE: <b>14/05/2024</b>
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COORDINATE SYSTEM / DATUM: **British National Grid / Newlyn Datum (AOD)**

CLIENT: **RES**

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Arboricultural Consultants

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Address: Office 5E, Deer Park Business Centre, Eickington, Pershore, Worcestershire, WR10 3DN





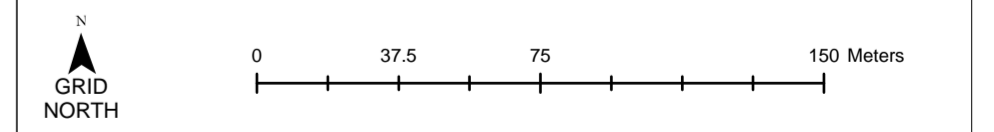
- KEY**
- Category A Tree - High quality (Retention highly desirable)
  - Category A - Hedgerow, Group, Woodland - High quality (Retention highly desirable)
  - Category B Tree - Moderate quality (Retention desirable)
  - Category B - Hedgerow, Group, Woodland - Moderate quality (Retention desirable)
  - Category C Tree - Low quality (May be retained but should not constrain development)
  - Category C - Hedgerow, Group, Woodland - Low quality (May be retained but should not constrain development)
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Label	Description
OOS 001	Offsite ash, 8m tall
OOS 002	Offsite ash, 9m tall
OOS 003	Offsite ash, 9m tall
OOS 004	Offsite ash, 8m tall
OOS 005	Offsite ash, 8m tall
OOS 006	Collapsed dead tree 12m into site
OOS 007	Small mature ash - 7m tall
OOS 008	Offsite railway field maple, 3m tall
OOS 009	Heavily decayed ash stump, felled @ 1.5m, approx. dia. 850mm, small crown formed by young re-gen, not plotted on topo
OOS 010	Young dead stem
OOS 011	Bramble, Hawthorn felled out-of-scope hedging
OOS 012	Bramble, Hawthorn, Blackthorn felled out-of-scope hedging
OOS 013	Saplings with tree protection measures
OOS 014	Saplings with tree protection measures
OOS 015	Sub 75mm predominantly blackthorn
OOS 016	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder
OOS 017	Sub 75mm basal regrowth: crack willow, common ash, field maple, elder, Hawthorn
OOS 018	Off-site adjacent to railway side, self established young thorn & maple
OOS 019	Off-site adjacent to railway side, self established young thorn & dogrose
OOS 020	Stand - willow, laurel, sapling laureum
OOS 021	Area of scrub - elder, bramble, sapling Hawthorn mix - 2m tall

Label	Description
TN1	Public survey access
TN2	Oak trees within the hedgerow are set back from site redline beyond RPA's
TN3	Oak trees within the hedgerow are set back from site redline beyond RPA's
TN4	Existing compacted earth and stone track



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PROJECT TITLE	Steeple (5343)		
DRAWING TITLE	Tree Survey Plan		
SCALE	Scale: 1:2,000 @ A1	DRAWING NUMBER	BHA_5343_01
DRAWN BY	APPROVED BY	REVISION	SHEET
TS	BH	7 of 19	DATE: 14/05/2024
COORDINATE SYSTEM / DATUM: British National Grid / Newlyn Datum (AOD)			
CLIENT: RES			
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Arboricultural Consultants

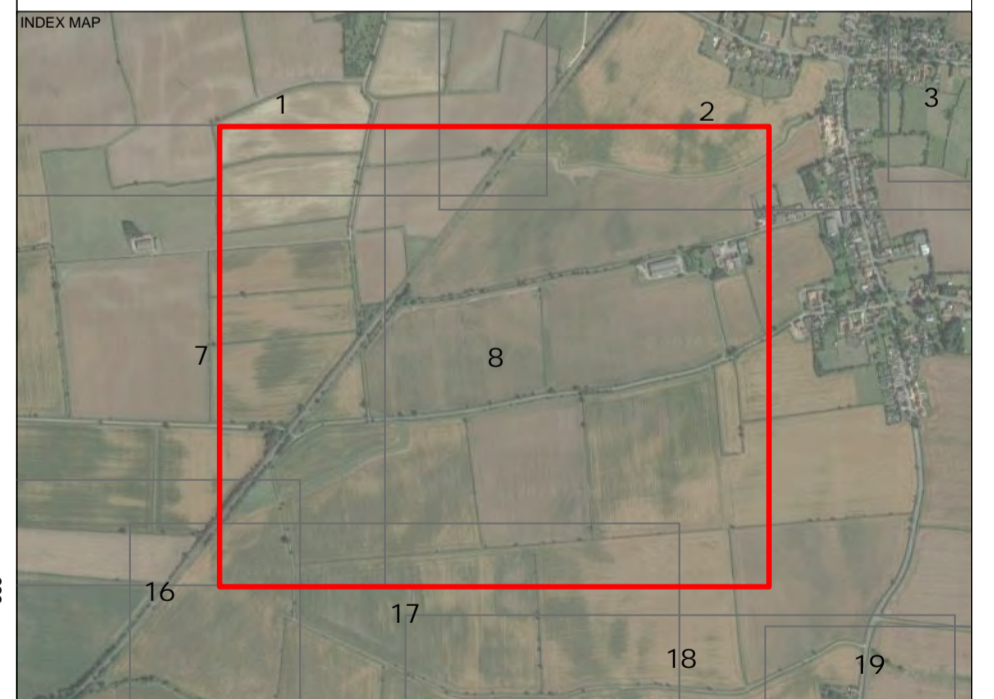
Tel: 01386 576161  
Address: Office 5E, Deer Park Business Centre, Eickington, Pershore, Worcestershire, WR10 3DN



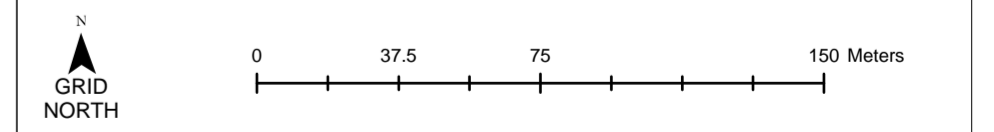


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  - Category B - Hedgerow, Group, Woodland - Moderate quality (Retention desirable)
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OOS 004	Offsite ash, 8m tall
OOS 005	Offsite ash, 8m tall
OOS 006	Collapsed dead tree 12m into site
OOS 007	Scrub mature ash - 7m tall
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OOS 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall
TH1	Public survey access
TH2	Oak trees within the hedgerow are set back from site redline beyond RPAs
TH3	Oak trees within the hedgerow are set back from site redline beyond RPAs
TH4	Existing compacted earth and stone track



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PROJECT TITLE: **Steeple (5343)**

DRAWING TITLE: **Tree Survey Plan**

SCALE: <b>Scale: 1:2,000 @ A1</b>	DRAWING NUMBER: <b>BHA_5343_01</b>
DRAWN BY: <b>TS</b>	APPROVED BY: <b>TH</b>
REVISION: <b>8 of 19</b>	DATE: <b>14/05/2024</b>
COORDINATE SYSTEM / DATUM: <b>British National Grid / Newlyn Datum (AOD)</b>	
CLIENT: <b>RES</b>	
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Arboricultural Consultants

Tel: 01386 576161  
Address: Office 5E, Deer Park Business Centre, Eckington, Peshore, Worcestershire, WR10 3DN





### KEY

- Category A Tree - High quality (Retention highly desirable)
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**Ancient Tree / Woodland or Veteran Trees**

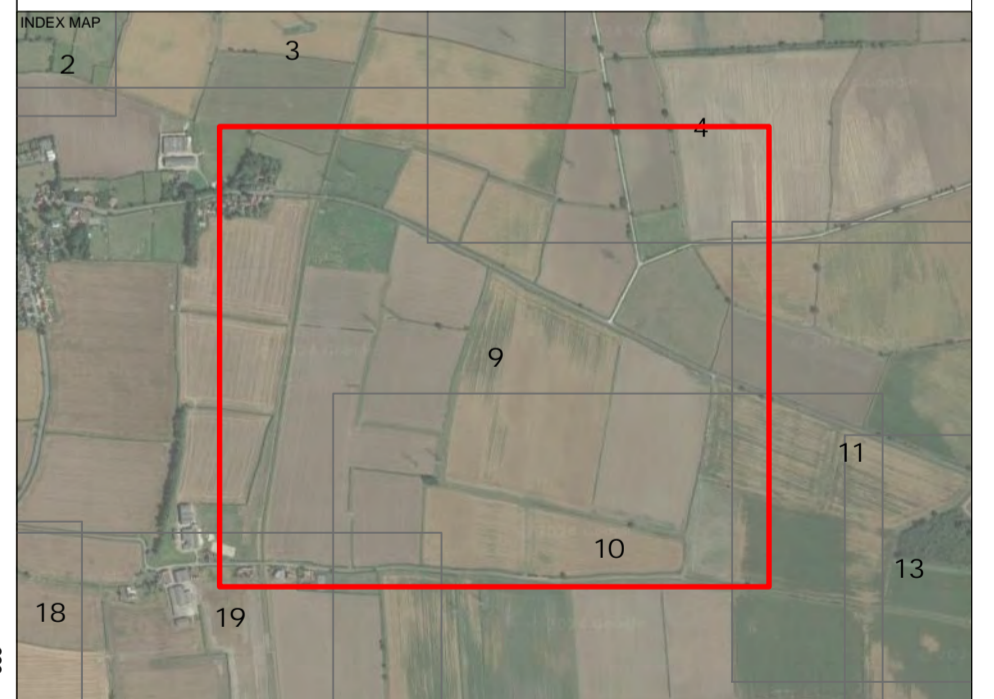
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**Statutory Protection**

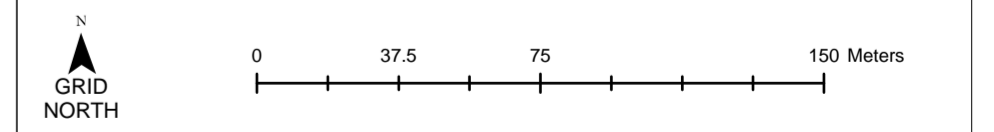
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- Target Note

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OOS 011	Bramble, Hawthorn felled out of-escape hedging
OOS 012	Bramble, Hawthorn, Blackthorn felled out of-escape hedging
OOS 013	Saplings with tree protection measures.
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OOS 019	Off-site adjacent to railway side, self established young thorn & dogrose
OOS 020	Small - willow, laurel, sapling hawthorn
OOS 021	Area of scrub - elder, bramble, sapling hawthorn mix - 2m tall

Label	Description
TW1	Public survey access
TW2	Oak trees within the hedgerow are set back from site redline beyond RPA's
TW3	Oak trees within the hedgerow are set back from site redline beyond RPA's
TW4	Existing compacted earth and stone track



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PROJECT TITLE  
**Steeple (5343)**

DRAWING TITLE  
**Tree Survey Plan**

SCALE	<b>Scale: 1:2,000 @ A1</b>	DRAWING NUMBER	<b>BHA_5343_01</b>
DRAWN BY	<b>TH</b>	APPROVED BY	<b>TH</b>
REVISION	<b>1</b>	SHEET	<b>9 of 19</b>
DATE	<b>14/05/2024</b>	COORDINATE SYSTEM / DATUM <b>British National Grid / Newlyn Datum (AOD)</b>	
CLIENT	<b>RES</b>		

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