



# Gatwick Airport Northern Runway Project

Environmental Statement

Appendix 5.3.2: Code of Construction Practice Annex 6 – Outline Arboricultural and Vegetation

Method Statement Part 2 - Clean Version

**Book 5**

VERSION: 2.0


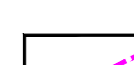

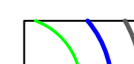
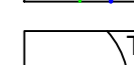
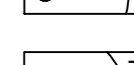

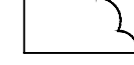
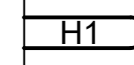
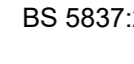




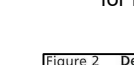



DATE: APRIL 2024

Application Document Ref: 5.3

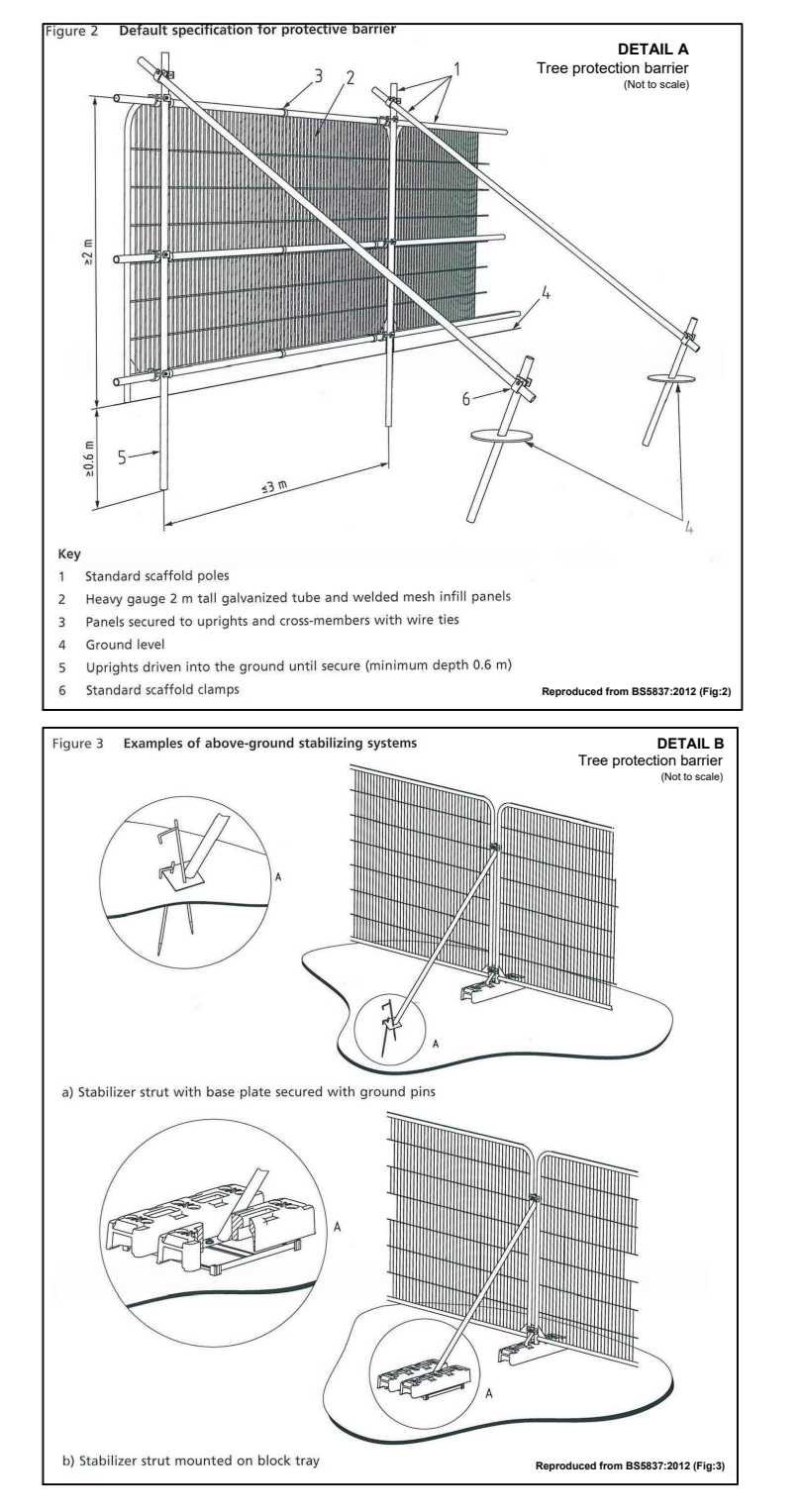
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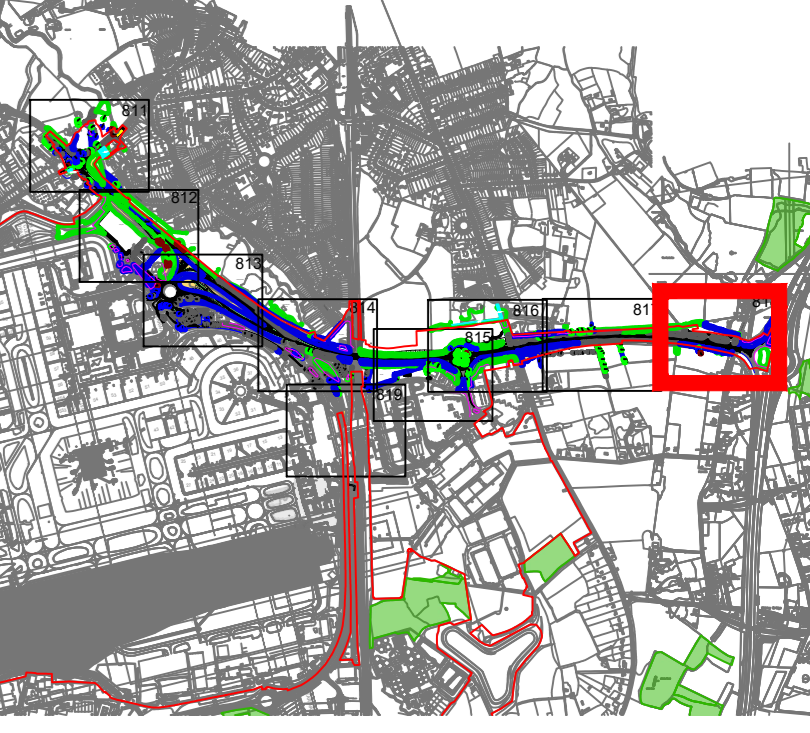
**Legend**

-  Site Boundary
-  Indicative temporary protective fence in accordance with Section 6.2.1 of BS5837:2012. See below for example barriers.
-  Tree loss required for construction
-  Tree with numbered reference. Canopy spread and BS5837:2012 tree quality category as shown below.
-  T11
-  Tree off-site with numbered reference. Canopy spread and BS5837:2012 tree quality category as shown below.
-  T11
-  Tree off-site with numbered reference. Canopy spread and BS5837:2012 tree quality category as shown below.
-  T11
-  Hedge with numbered reference. Width and BS5837:2012 tree quality category as shown below.
-  H1
-  BS 5837:2012 Tree Quality Categories - Table 1
-  Category A - High quality
-  Category B - Moderate quality
-  Category C - Low quality
-  Category U - Unsuitable for retention
-  Tree protected by Tree Preservation Order. Bracketted number reference relates to the TPO Schedule.
-  T11

NOTE:  
 • Refer to RPS Tree Survey Report & Schedule for further details.



**Key Plan**



DOCUMENT

**Environmental Statement**

DRAWING TITLE  
**M23 & A23 Preliminary Tree Removal & Protection Plans**  
 Appendix 5.3.2 Annex 6  
 Sheet 8 of 9

DATE  
 July 2023




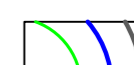


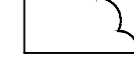
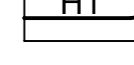






ORIENTATION	DRAWING NO.	REVISION
N	808	For ES Issue
	DRAWN BY	PM / CHECKED BY
	RC	DC

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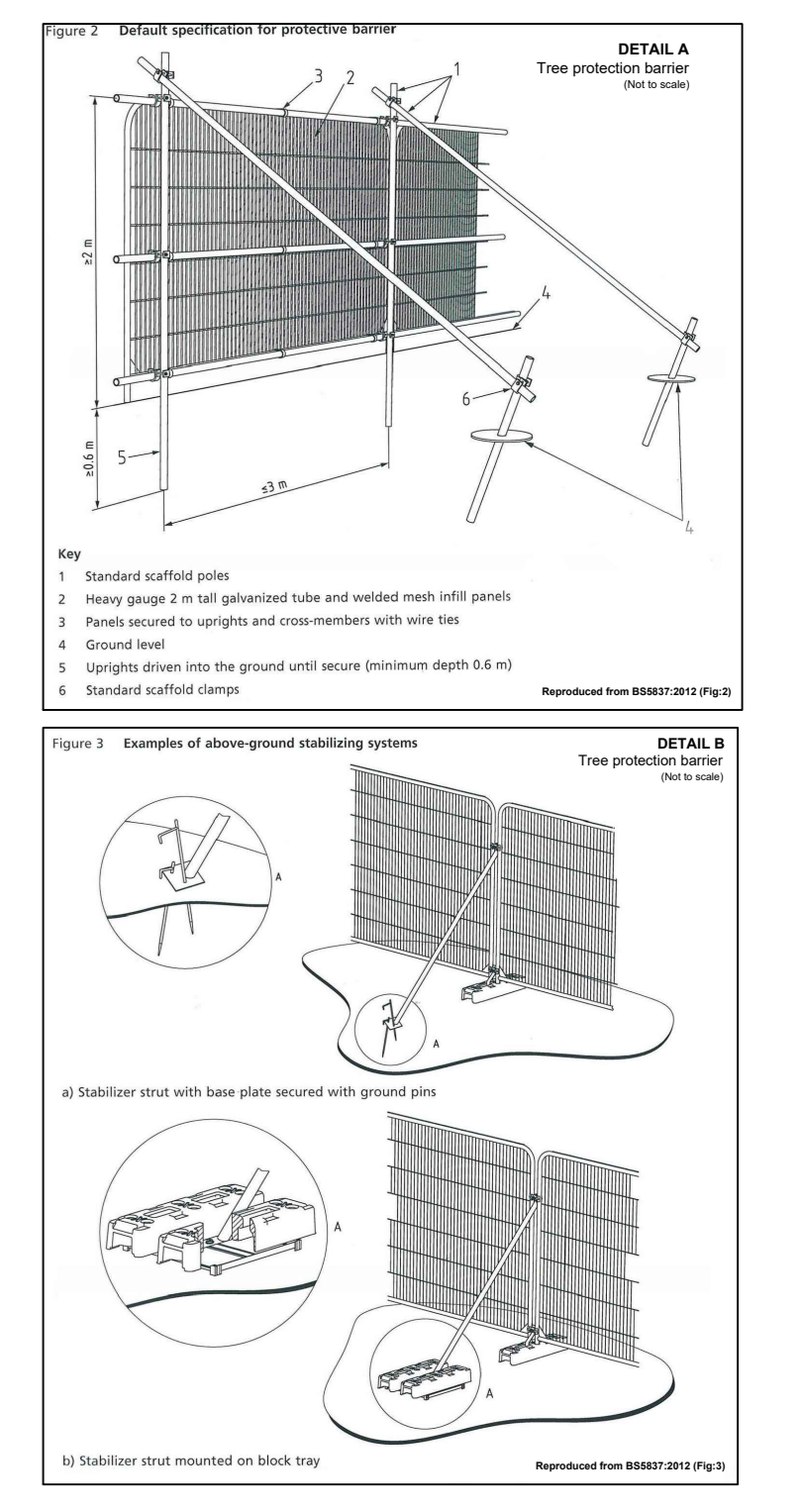
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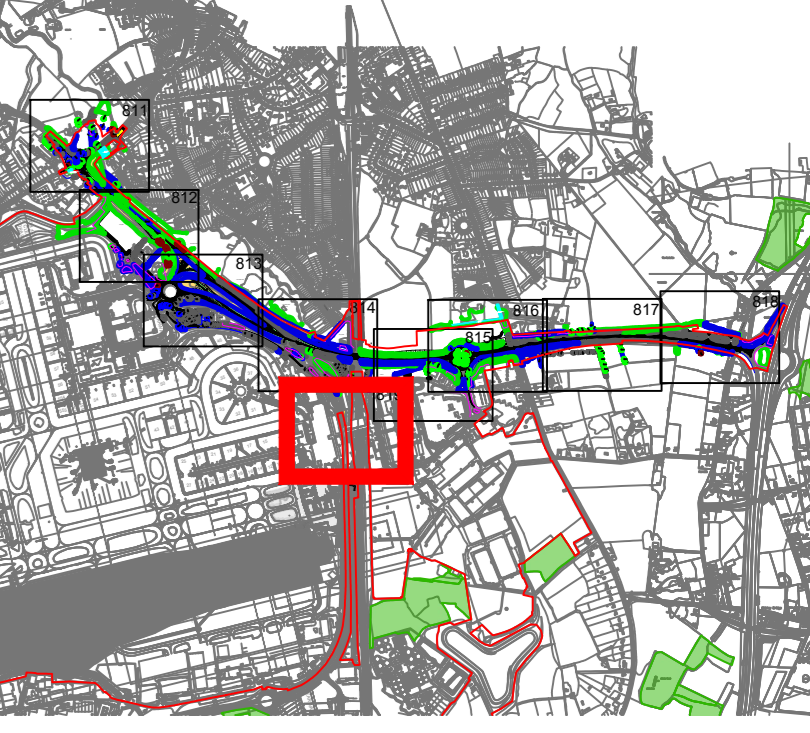
**Legend**

-  Site Boundary
  -  Indicative temporary protective fence in accordance with Section 6.2. BS5837:2012. See below for example barriers.
  -  Tree loss required for construction
  -  Tree with numbered reference. Canopy spread and BS5837:2012 tree quality category as shown below.
  -  T1\*
  -  Tree off-site with numbered reference. Canopy spread and BS5837:2012 tree quality category.
  -  Vegetation group with numbered reference. Canopy extents and BS5837:2012 tree quality category as shown below.
  -  Hedge with numbered reference. Width and BS5837:2012 tree quality category as shown below.
  -  H1
- BS 5837:2012 Tree Quality Categories - Table 1
-  Category A - High quality
  -  Category B - Moderate quality
  -  Category C - Low quality
  -  Category U - Unsuitable for retention
-  Tree protected by Tree Preservation Order. Bracketted number reference relates to the TPO Schedule.

NOTE: Refer to RPS Tree Survey Report & Schedule for further details.



**Key Plan**



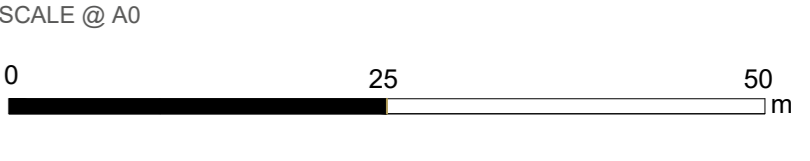
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DOCUMENT

**Environmental Statement**

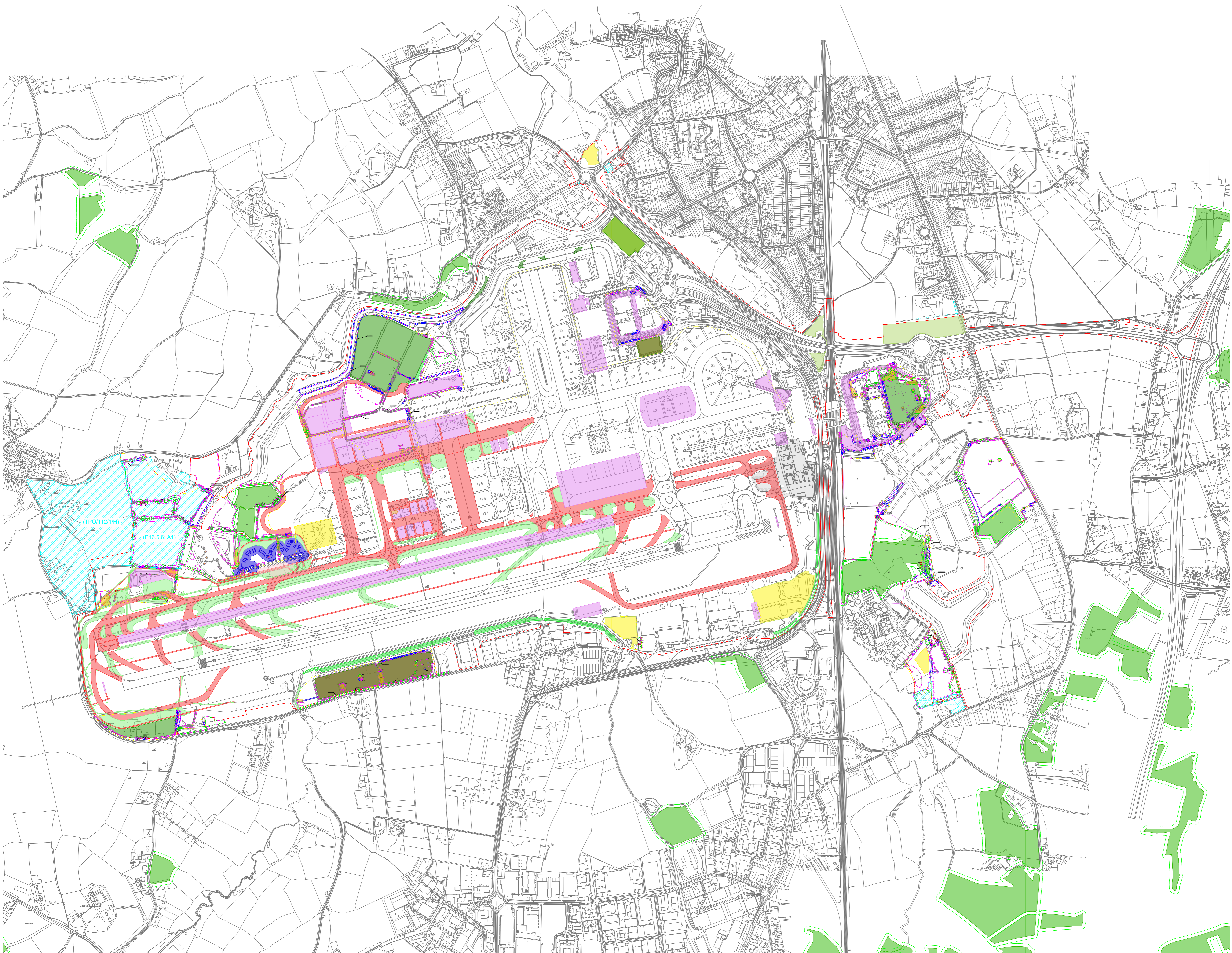
DRAWING TITLE  
**M23 & A23 Preliminary Tree Removal & Protection Plans**  
 Appendix 5.3.2 Annex 6  
 Sheet 9 of 9

DATE	July 2023	
ORIENTATION	DRAWING NO.	REVISION
N	809	For ES Issue
	DRAWN BY	PM / CHECKED BY
	RC	DC



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**Appendix B**  
**Airport Preliminary Tree Removal & Protection Plans**  
[to be submitted at Deadline 4]



**Key**

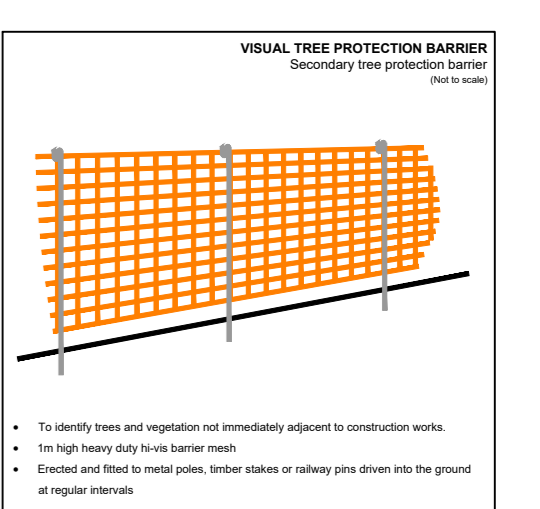
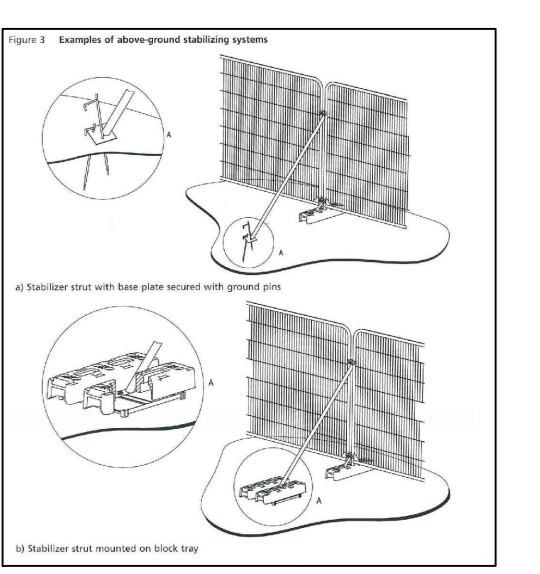
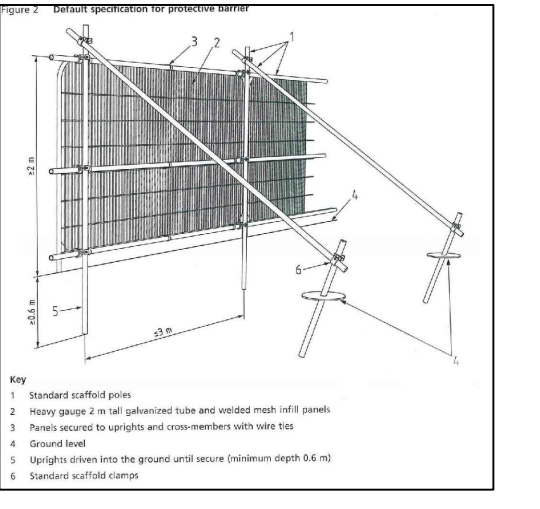
- Red Line boundary.
- Survey boundary.
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below. # = Tree details estimate (inaccessible tree) = Tree in off site location
- Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below.
- Tree or Vegetation group with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative stem line.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below and dashed line to show hedge centreline.
- Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative tree line.

**BS 5837:2012 Tree Quality Categories - Table 1**

- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention

- Direction of first significant branch
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)
- Tree protected by Tree Preservation Order. Bracketted number reference relates to the TPO Schedule.
- Designated Ancient Woodland (as per Natural England ancient woodland inventory, via open data publication)
- Ancient Woodland tree buffer (15m offset) (as per standing advice produced by Forestry England and Natural England)
- Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category
- Indicative temporary protective fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
- Indicative secondary protective HI-Vis Mesh fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
- Indicative vegetation protective fence. Design and location to be agreed by local council during detail design.

- NOTES:**
- Refer to RPS Tree Survey Report & Schedule for further details.
  - Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
  - Plan produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to design, development and construction'.
  - Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period, generally, although not restricted to, March - August inclusive.
  - Survey based upon Aerial Photography and trees located by eye.



DOCUMENT

**Environmental Statement**

DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans Appendix 5.3.2 Annex 6 Overview**

DATE  
**January 2024**

ORIENTATION N ▲	DRAWING NO. <b>735</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>RC</b>	PM / CHECKED BY <b>DC</b>

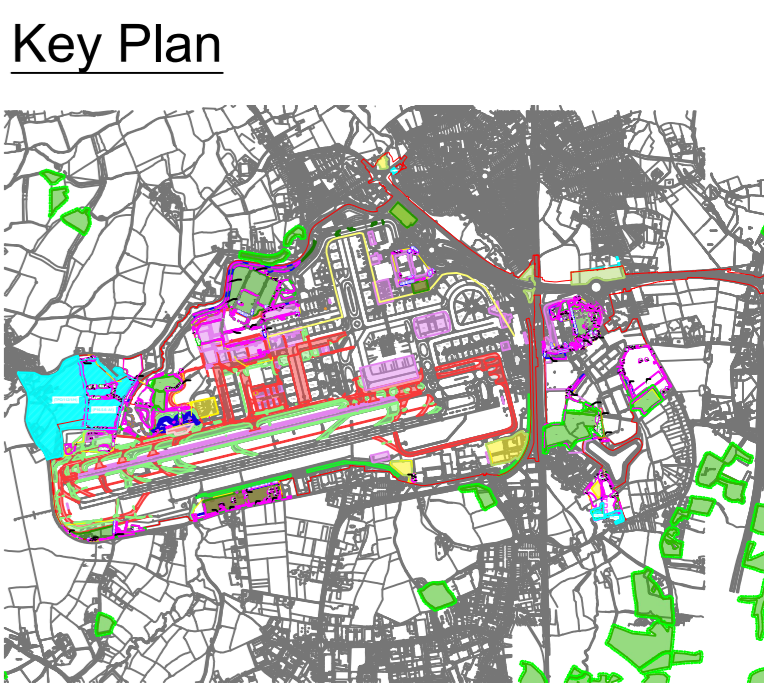
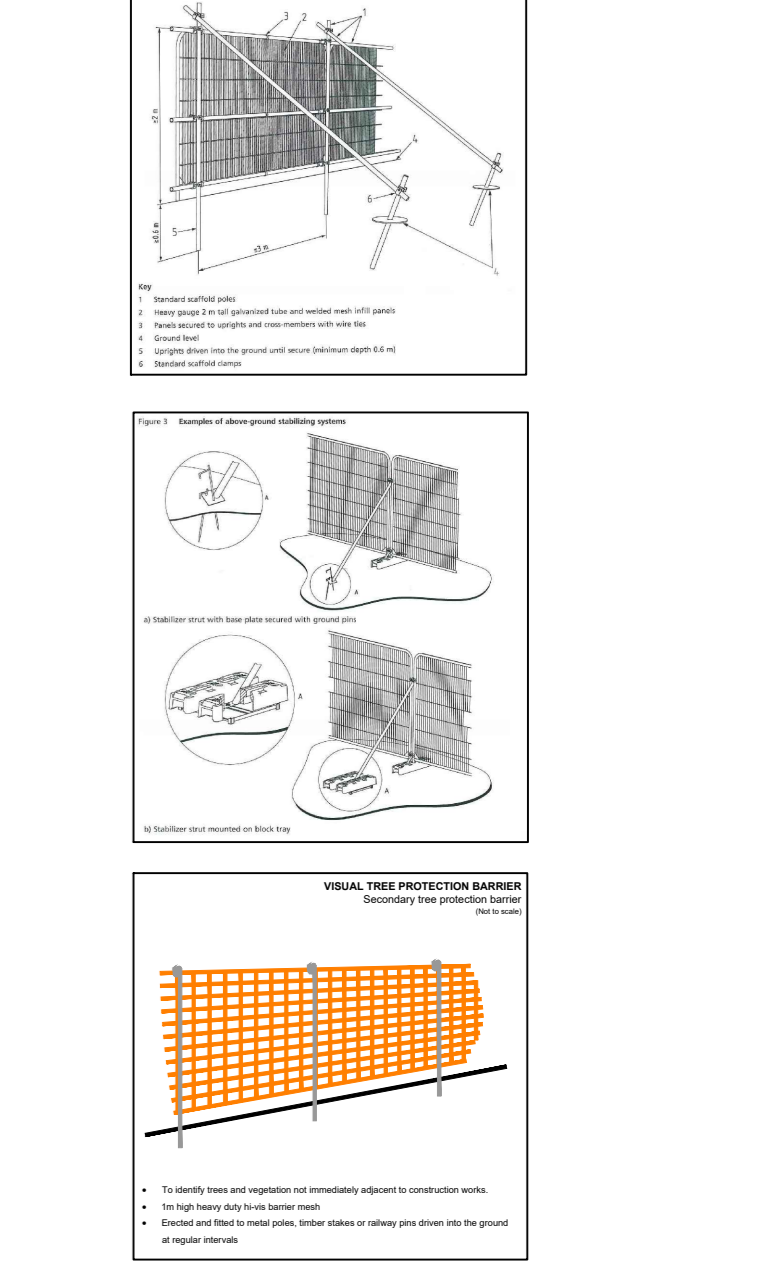
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- Key**
- Red Line boundary.
  - Survey boundary.
  - Tree with numbered reference. Canopy spread and colour to match BS5837:2012 tree quality category as shown below.
    - = Tree details estimate (non-removable tree)
    - = Tree in off site location
  - Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below.
  - Tree or Vegetation group with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative stem line.
  - Hedge with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show hedge centreline.
  - Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative tree line.
- BS 5837:2012 Tree Quality Categories - Table 1
- Category A - High quality
  - Category B - Moderate quality
  - Category C - Low quality
  - Category U - Unsuitable for retention
- Direction of first significant branch
  - Root protection area (RPA). Calculated in accordance with Section 4.6.
  - BS5837:2012
  - Vegetation tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)
  - Tree protected by Tree Preservation Order. Bracketted number reference relates to the TPO Schedule.
  - Designated Ancient Woodland (as per Natural England ancient woodland inventory, via open data publication)
  - Ancient Woodland tree buffer (15m offset) (as per standing advice produced by Forestry England and Natural England)
  - Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
  - Indicative temporary protective fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative secondary protective Hi-Viz Mesh fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative vegetation protective fence. Design and location to be agreed by local council during detail design.

**NOTES:**

- Refer to RPA Tree Survey Report & Schedule for further details.
- Survey based on a visual inspection from the ground and is not intended as a 3D architectural elevation.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - Trees in the Design, Installation and Construction.
- Due to the high protection afforded to existing trees, vegetation removal should not take place during the hot weather period (generally, although not restricted to, March - August inclusive).
- Some trees are open Access Points and are to be marked by sign.



DOCUMENT  
**Environmental Statement**

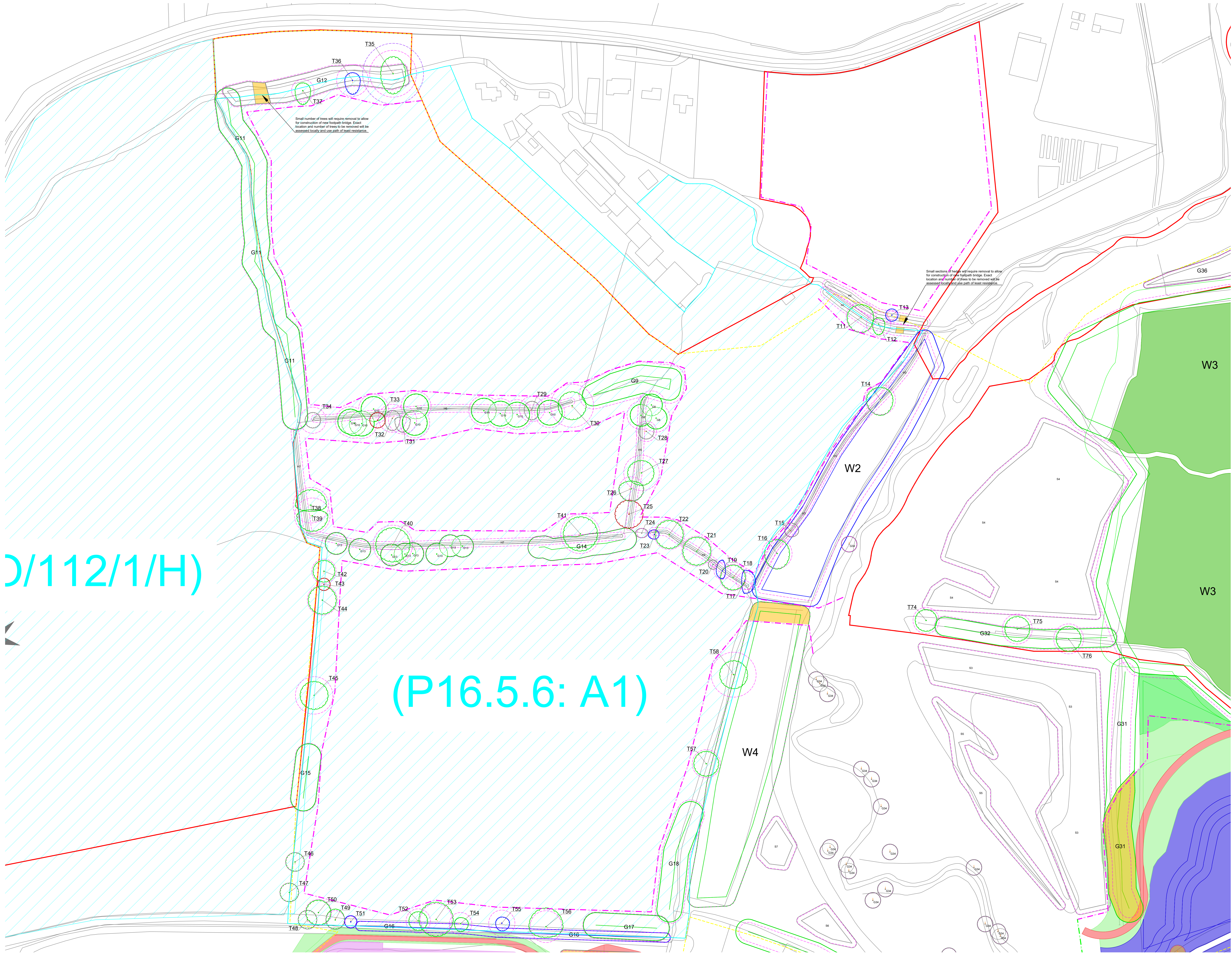
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Appendix 5.3.2 Annex 6  
Sheet 1 of 13

DATE  
**January 2024**

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	DRAWN BY RC	PM / CHECKED BY DC

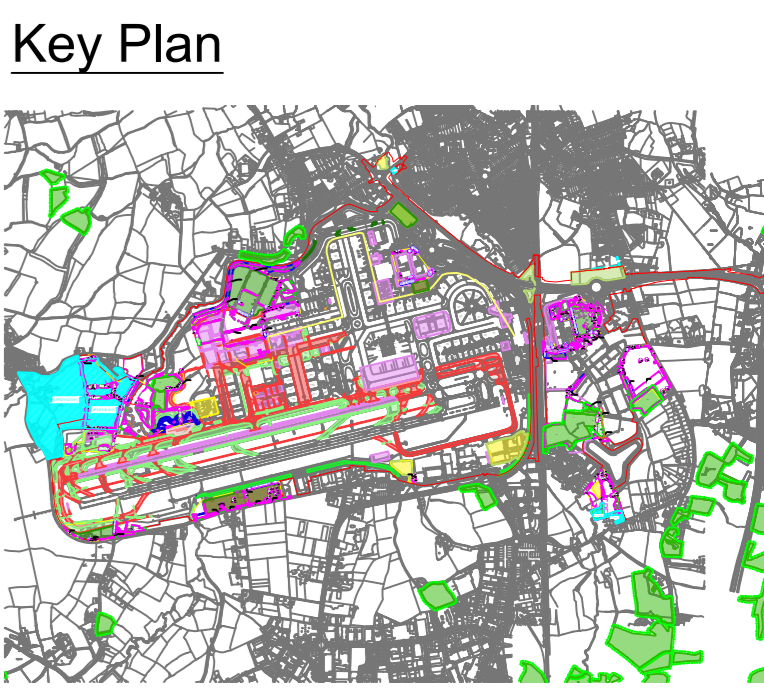
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- Key**
- Red Line boundary.
  - Survey boundary.
  - Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
    - = Tree details estimate (measurable tree)
    - = Tree in site location
  - Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below.
  - Tree or vegetation group with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative stem line.
  - Hedge with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show hedge centreline.
  - Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative tree line.
- BS 5837:2012 Tree Quality Categories - Table 1**
- Category A - High quality
  - Category B - Moderate quality
  - Category C - Low quality
  - Category U - Unsuitable for retention
- Direction of first significant branch
  - Road protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
  - Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)
  - Tree protected by Tree Preservation Order. Bracketted number reference relates to the TPO Schedule.
  - Designated Ancient Woodland (as per Natural England ancient woodland inventory, via open data publication)
  - Ancient Woodland tree buffer (15m offset) (as per standing advice produced by Forestry England and Natural England)
  - Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
  - Indicative temporary protective fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative secondary protective Hi-Viz Mesh fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative vegetation protective fence. Design and location to be agreed by local council during detail design.

- NOTES:**
- Refer to TPO Tree Survey Report & Schedule for further details.
  - Survey based on a visual inspection from the ground and is not intended as a 3D model.
  - Plan produced in accordance with recommendations set out in BS 5837:2012 - Trees in Practice to design, install and construct.
  - Due to the large protection afforded to existing trees, vegetation removal should not take place during the hot weather periods generally, although not restricted to March - August inclusive.
  - General removal areas, photographs and trees located by eye.
- 
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**DOCUMENT**

**Environmental Statement**

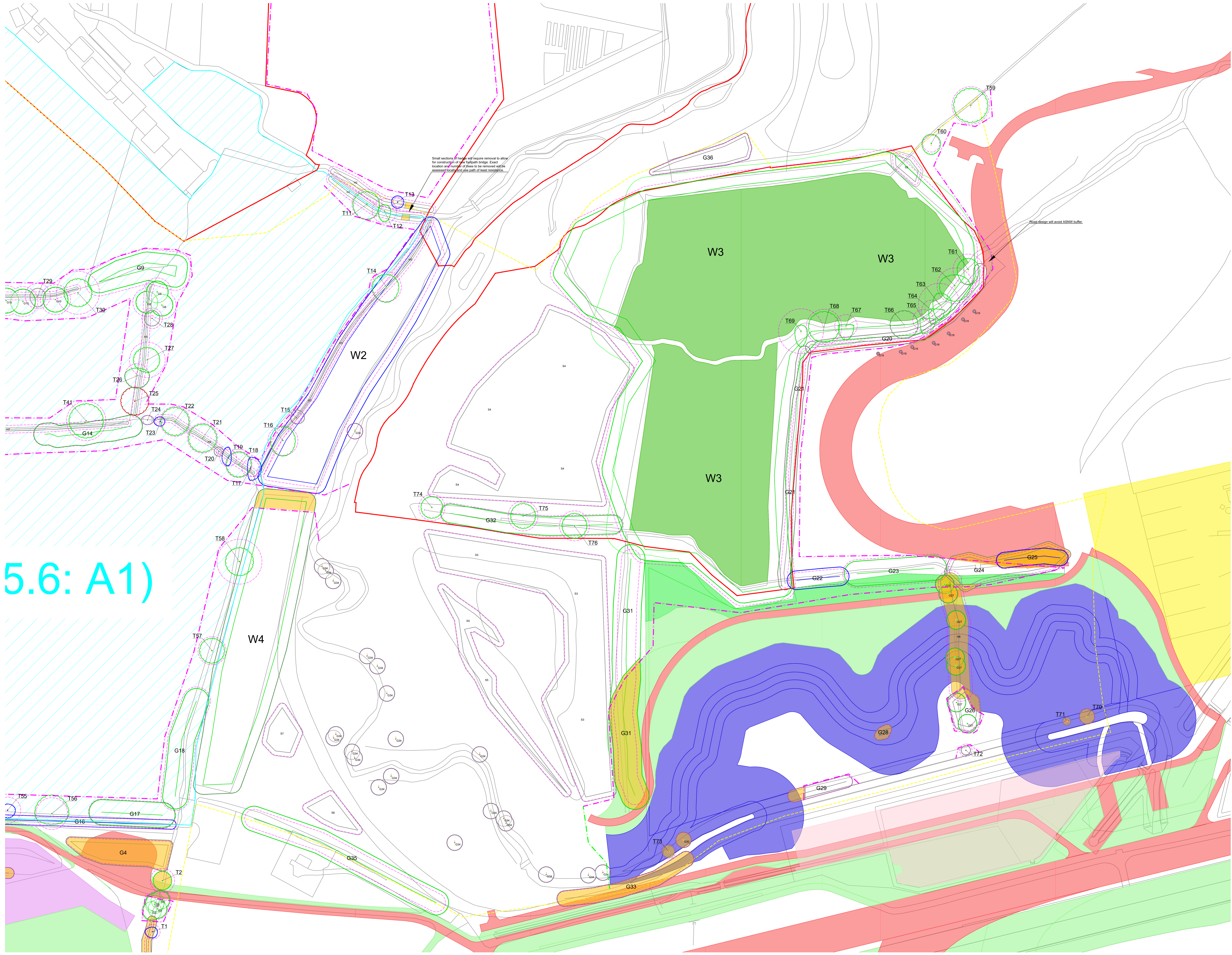
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**Appendix 5.3.2 Annex 6**  
**Sheet 2 of 13**

**DATE**  
 January 2024

<b>ORIENTATION</b> N	<b>DRAWING NO.</b> 737	<b>REVISION</b> For ES Issue
	<b>DRAWN BY</b> RC	<b>PM / CHECKED BY</b> DC

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5.6: A1)

**Key**

- Red Line boundary.
- Survey boundary.
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
  - = Tree detail estimate (measurable tree)
  - = Tree in off site location
- Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative stem line.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below and dashed line to show hedge centreline.
- Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative tree line.

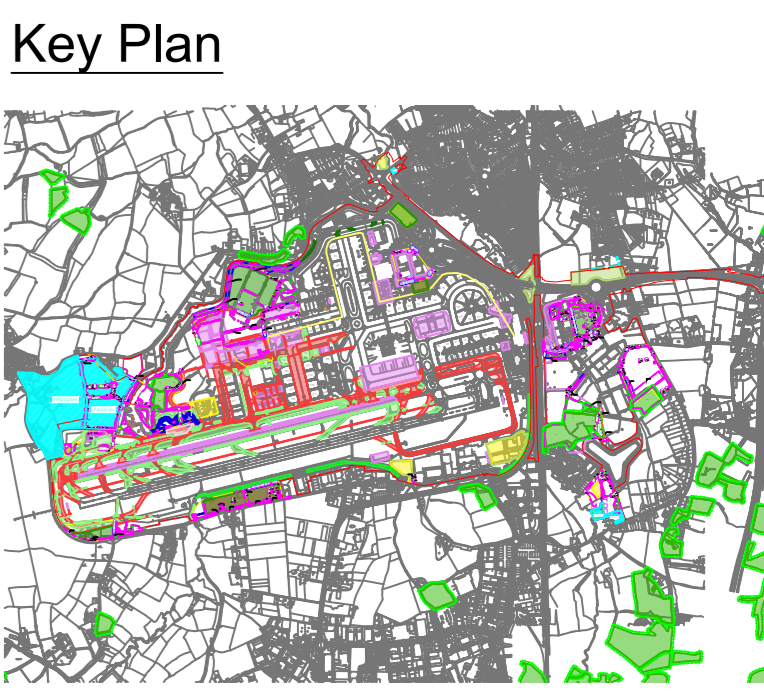
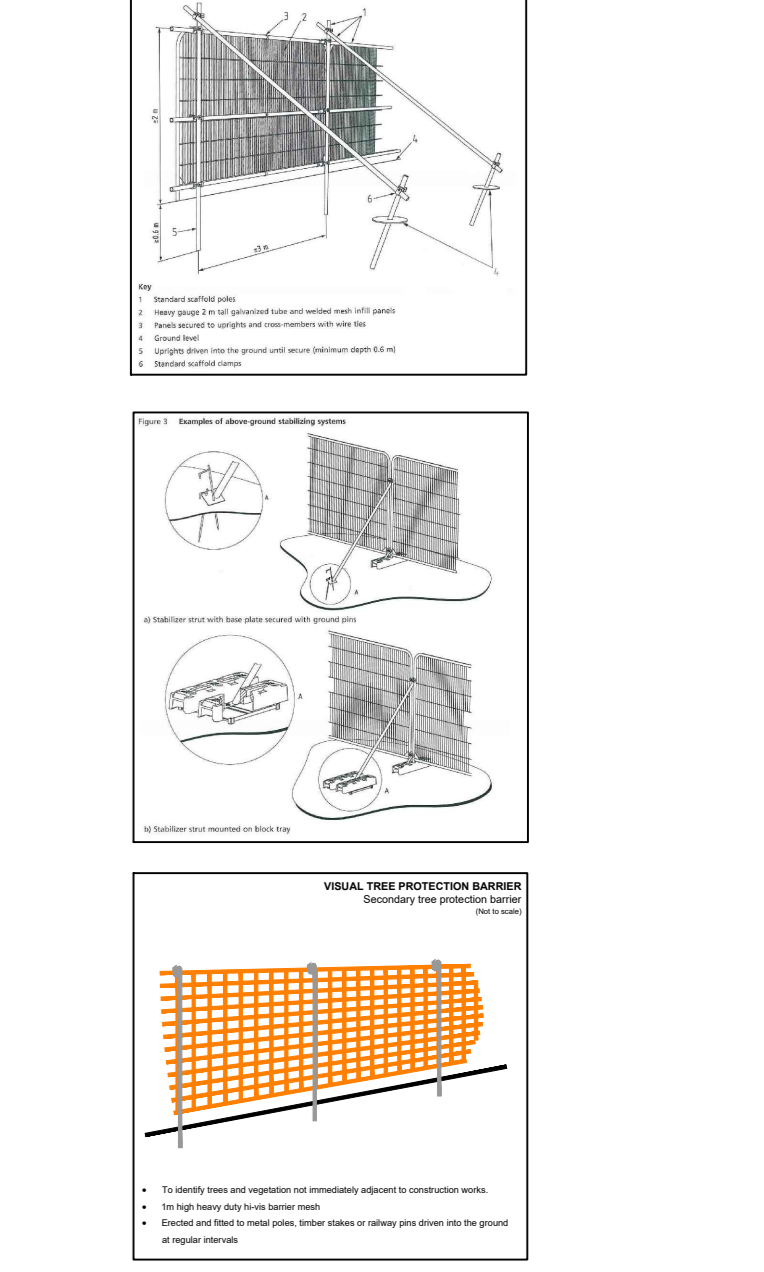
BS 5837:2012 Tree Quality Categories - Table 1

- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention

- Direction of first significant branch
- Road protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Vegetation tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)
- Tree protected by Tree Preservation Order. Bracketted number reference relates to the TPO Schedule.
- Designated Ancient Woodland (as per Natural England ancient woodland inventory, via open data publication)
- Ancient Woodland tree buffer (15m offset) (as per standing advice produced by Forestry England and Natural England)
- Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
- Indicative temporary protective fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
- Indicative secondary protective H/Ws Mesh fence in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
- Indicative vegetation protective fence. Design and location to be agreed by local council during detail design.

**NOTES:**

- Refer to TPO Tree Survey Report & Schedule for further details.
- Survey based on a visual inspection from the ground and is not intended as a detailed structural survey.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - Trees in the Landscape: Design, Installation and Construction.
- Due to the large proportion of trees to be removed, vegetation removal should be undertaken during the hot weather period, generally, although not restricted to March - August inclusive.
- Survey based on aerial photography and trees located by eye.

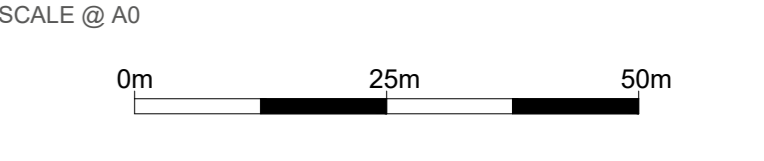


DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans Appendix 5.3.2 Annex 6 Sheet 3 of 13**

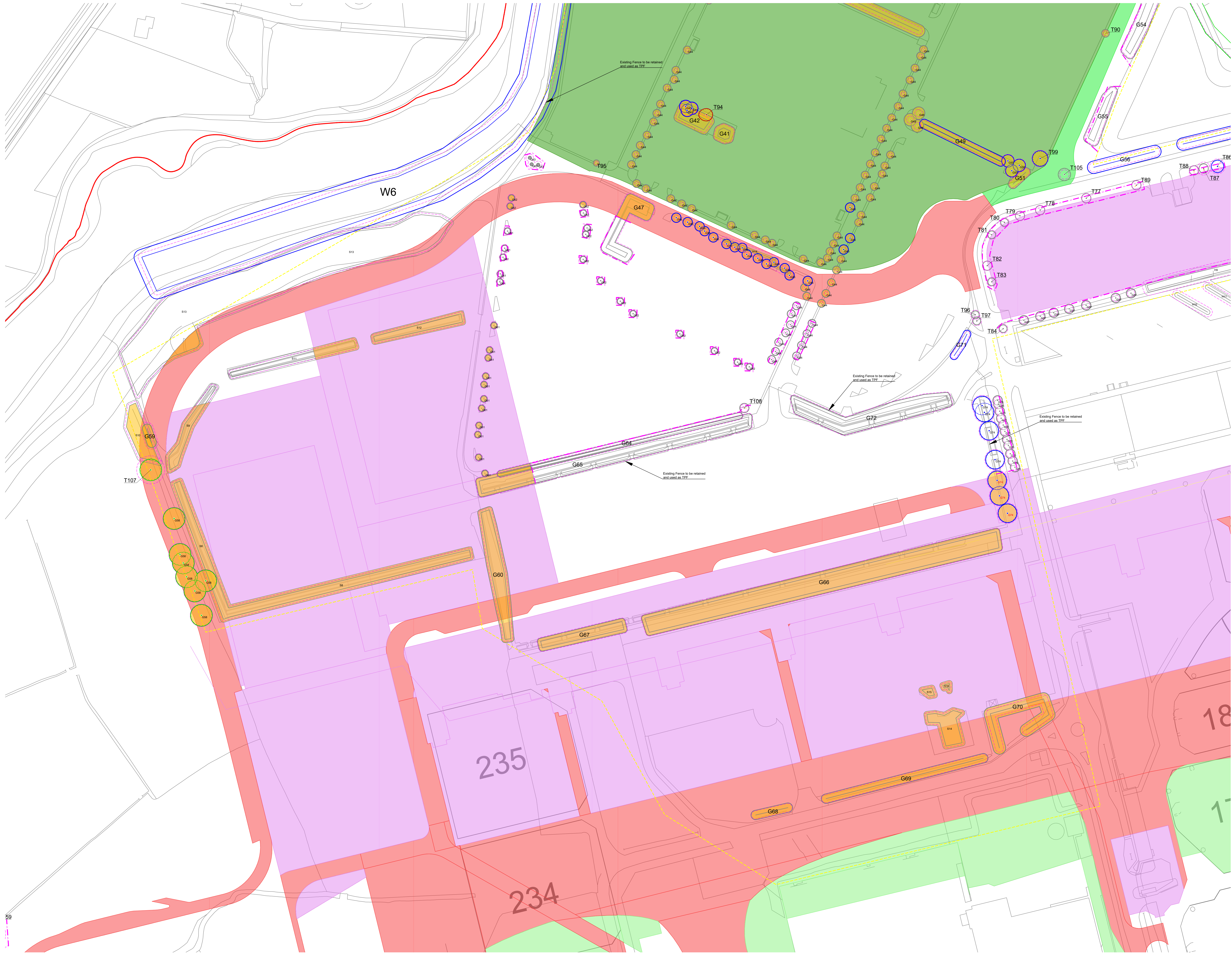
DATE  
**January 2024**

ORIENTATION	DRAWING NO.	REVISION
N	738	For ES Issue
	DRAWN BY	PM / CHECKED BY
	RC	DC



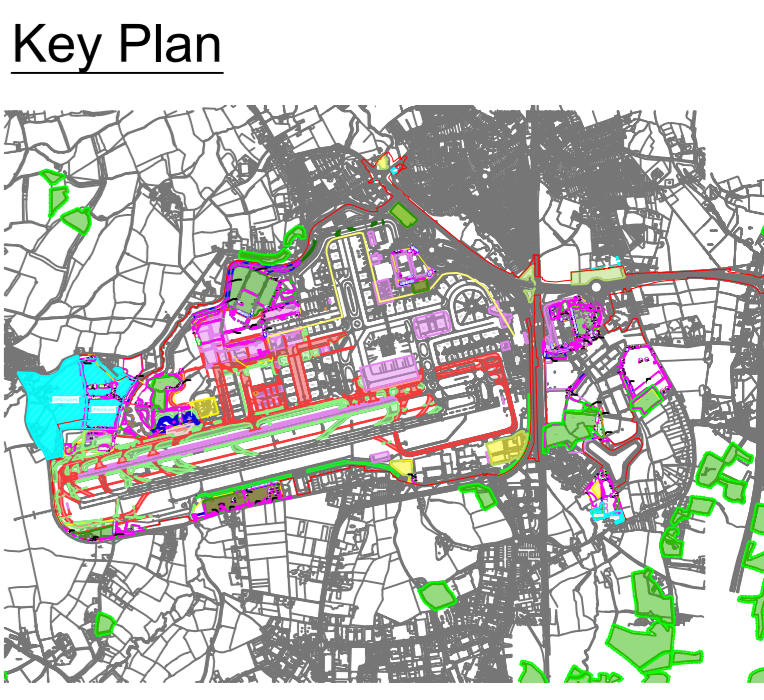
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- Key**
- Red Line boundary.
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  - Tree or Vegetation group with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative stem line.
  - Hedge with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show hedge centreline.
  - Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative tree line.
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- Category A - High quality
  - Category B - Moderate quality
  - Category C - Low quality
  - Category U - Unsuitable for retention
- Direction of first significant branch
  - Root protection area (RPA). Calculated in accordance with Section 4.6 - BS5837:2012 (as per standing advice produced by Forestry England and Natural England).
  - Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England).
  - Tree protected by Tree Preservation Order. Bracketed number reference relates to the TPO Schedule.
  - Designated Ancient Woodland (as per Natural England ancient woodland inventory, via open data publication).
  - Ancient Woodland tree buffer (15m offset) (as per standing advice produced by Forestry England and Natural England).
  - Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
  - Indicative temporary protective fence line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative secondary protective Hi-Viz Mesh fence line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative vegetation protective fence line. Design and location to be agreed by local council during detail design.

- NOTES:**
- Refer to RPA Tree Survey Report & Schedule for further details.
  - Survey based on a visual inspection from the ground and is not intended as a full structural assessment.
  - Plan produced in accordance with recommendations set out in BS 5837:2012 - Trees in Practice to design, install and construct.
  - Due to the large protection afforded to existing trees vegetation removal should not take place during the hot weather periods generally, although not restricted to March - August inclusive.
  - Some trees are open Access Trees and are not located by sign.
- 
- 
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DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans Appendix 5.3.2 Annex 6 Sheet 4 of 13**

DATE  
**January 2024**

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	DRAWN BY RC	PM / CHECKED BY DC

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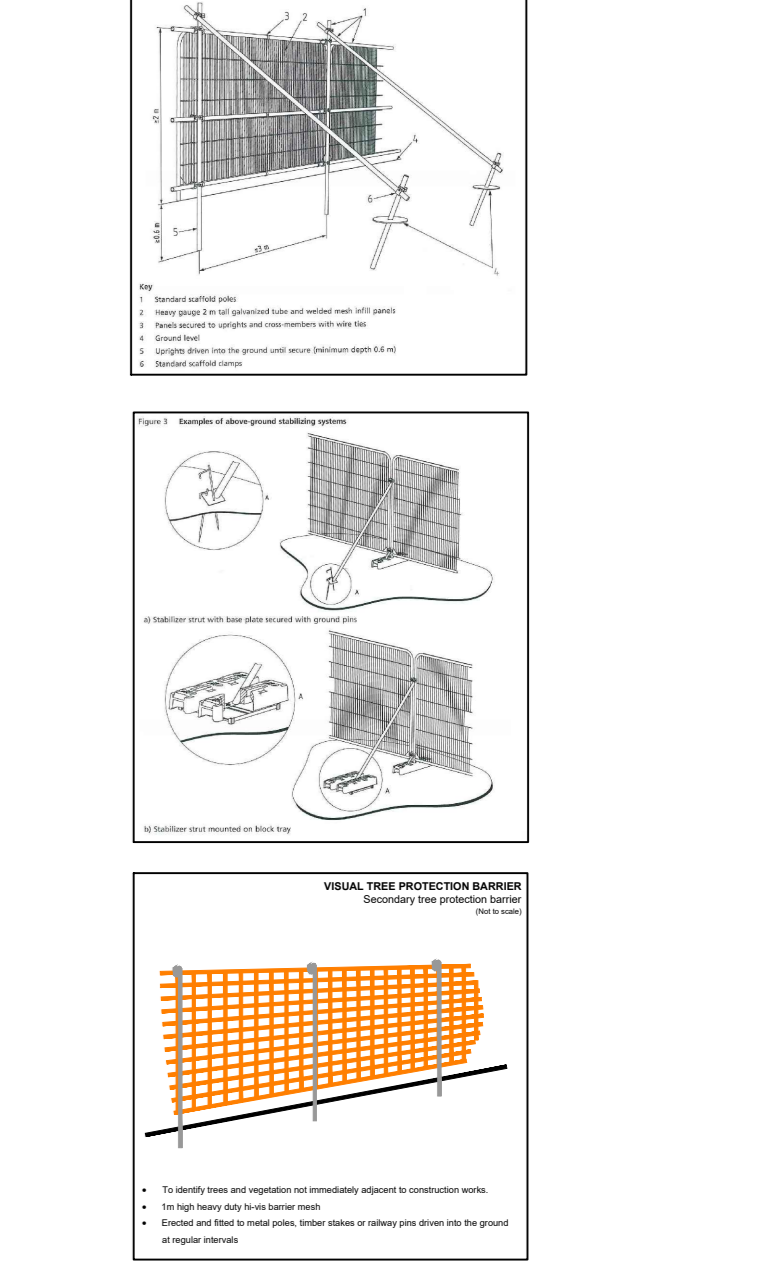
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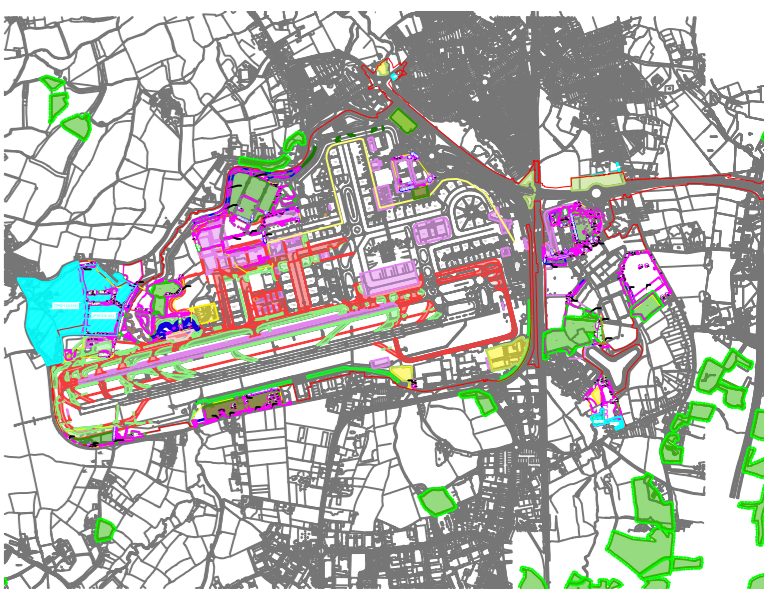
- Key**
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    - = Tree details estimate (measurable tree)
    - = Tree in off site location
  - Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below.
  - Tree or Vegetation group with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative stem line.
  - Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below and dashed line to show hedge centreline.
  - Woodland with numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below and dashed line to show indicative tree line.
- BS 5837:2012 Tree Quality Categories - Table 1
- Category A - High quality
  - Category B - Moderate quality
  - Category C - Low quality
  - Category U - Unsuitable for retention
- Direction of first significant branch
  - Root protection area (RPA) Calculated in accordance with Section 4.6.1 BS5837:2012
  - Vegetation tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)
  - Tree protected by Tree Preservation Order. Bracketted number reference relates to the TPO Schedule.
  - Designated Ancient Woodland (as per Natural England ancient woodland inventory, via open data publication)
  - Ancient Woodland tree buffer (15m offset) (as per standing advice produced by Forestry England and Natural England)
  - Tree to be removed with numbered reference. Canopy spread and BS5837:2012 tree quality category.
  - Indicative temporary protective fence in accordance with Section 6.2.1 BS5837:2012. See below for example barriers.
  - Indicative secondary protective Hi-Viz Mesh fence in accordance with Section 6.2.1 BS5837:2012. See below for example barriers.
  - Indicative vegetation protective fence. Design and location to be agreed by local council during detail design.

**NOTES:**

- Refer to RPA Tree Survey Report & Schedule for further details.
- Survey based on a visual inspection from the ground and is not intended as a full structural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012. Trees in this category to be removed and contractor.
- Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period generally, although not restricted to March - August inclusive.
- Some trees are shown as being protected and trees located by eye.



**Key Plan**



**DOCUMENT**

**Environmental Statement**

**DRAWING TITLE**

**Airport Preliminary Tree Removal & Protection Plans Appendix 5.3.2 Annex 6 Sheet 5 of 13**

**DATE** January 2024

<b>ORIENTATION</b> N	<b>DRAWING NO.</b> 740	<b>REVISION</b> For ES Issue
	<b>DRAWN BY</b> RC	<b>PM / CHECKED BY</b> DC

**SCALE @ A0**  
0m 25m 50m

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