



# Gatwick Airport Northern Runway Project

Environmental Statement

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

Method Statement – Part 3 – Tracked Version

**Book 5**

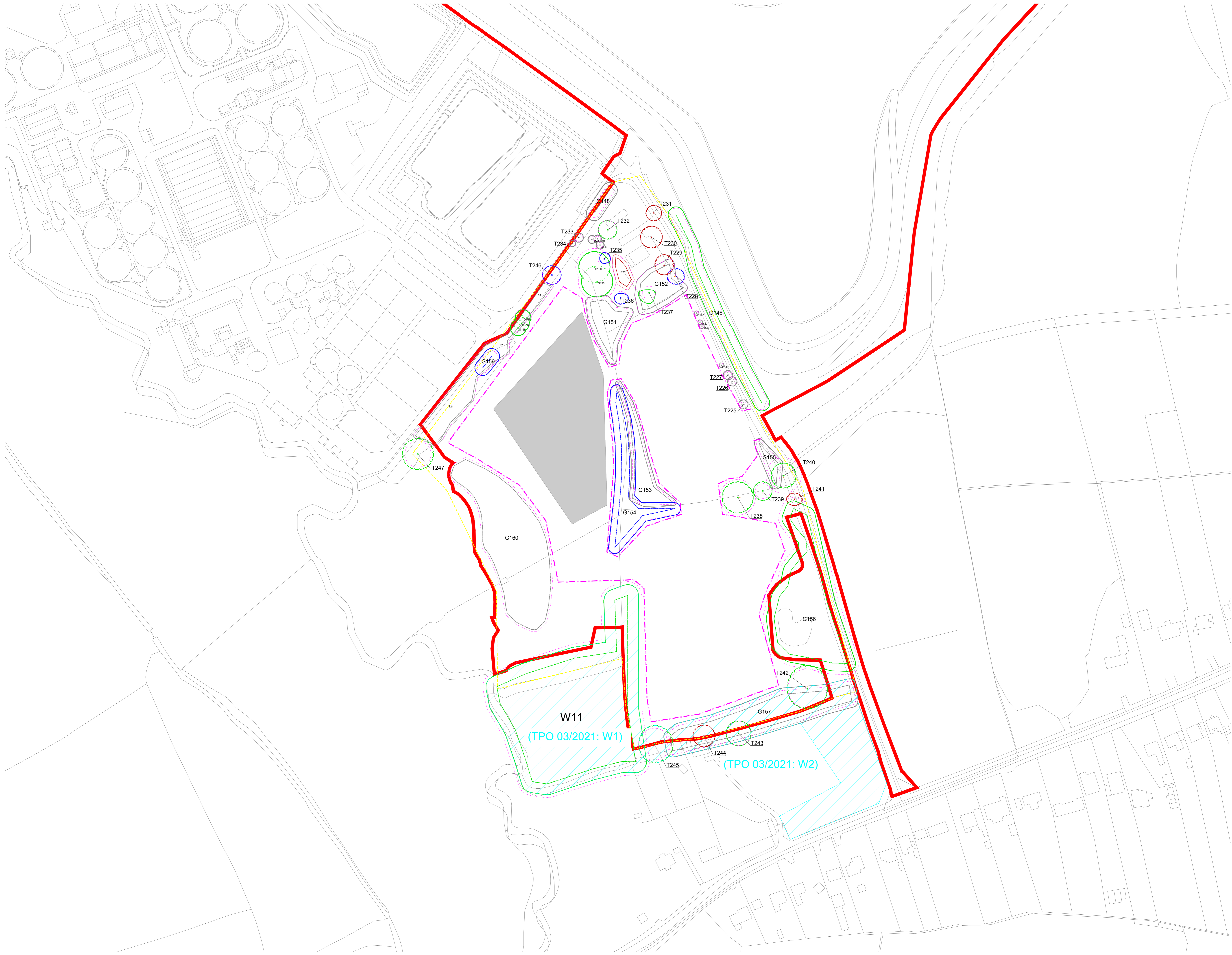
VERSION: 5.0

DATE: AUGUST 2024

Application Document Ref: 5.3

PINS Reference Number: TR020005

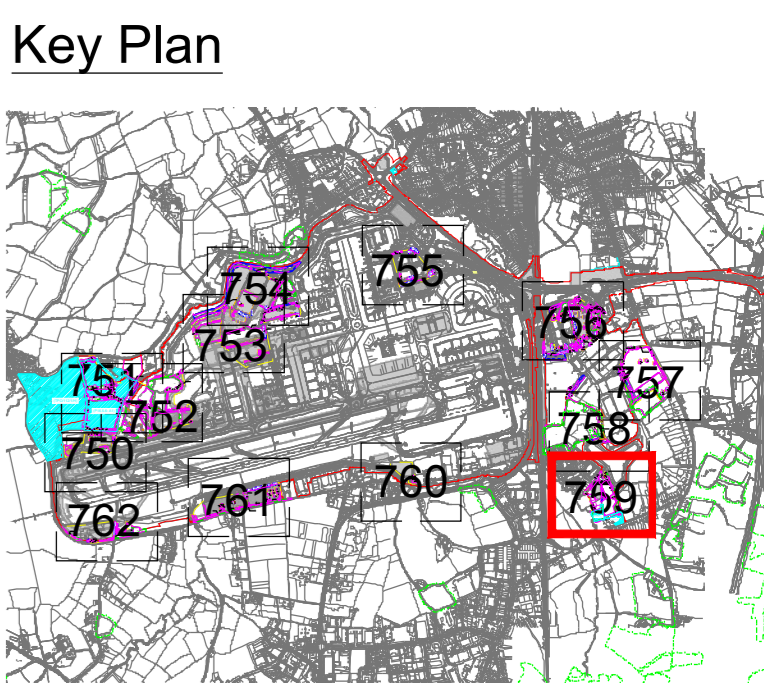
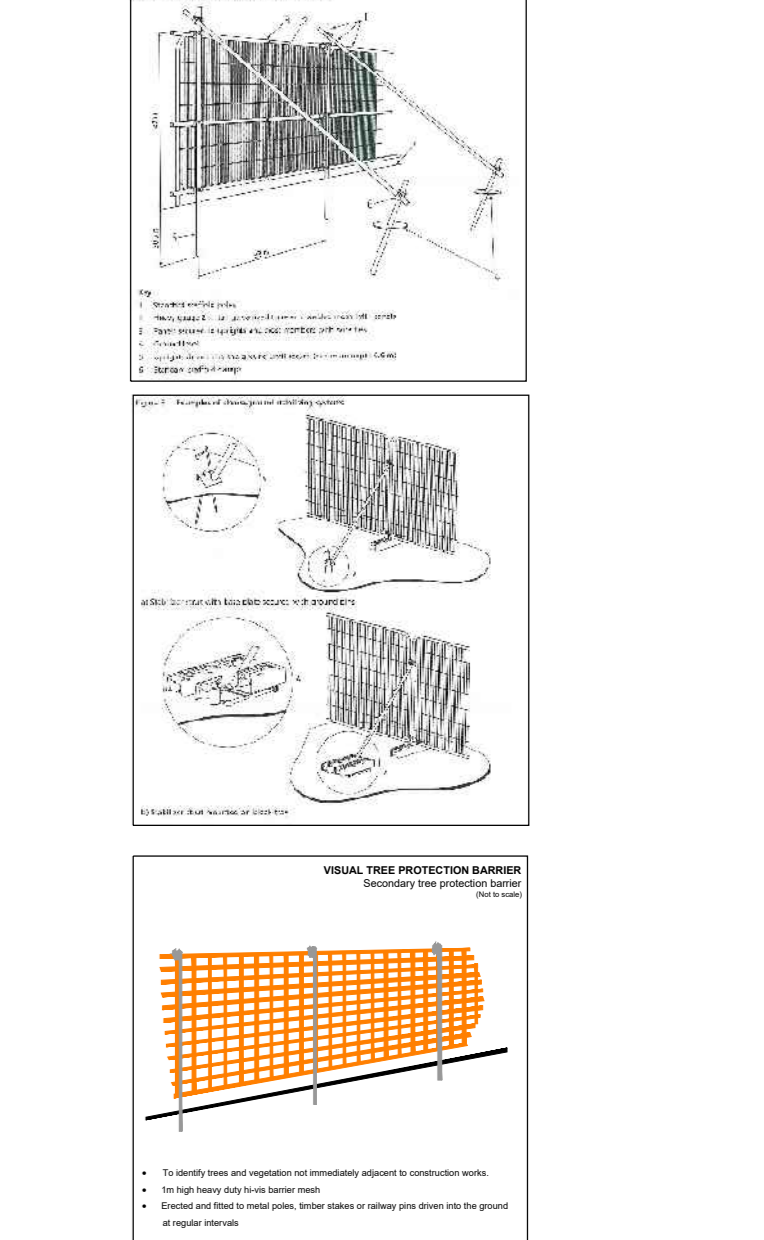




- Key**
- Site boundary
  - Survey boundary
  - Tree with numbered reference. Canopy spread and coloured BSS837:2012 tree quality category as shown below.
    - = Tree details estimate (accessible tree)
    - = Tree in off site location
  - Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BSS837:2012 tree quality category as shown below and dashed line to show indicative stem line.
  - Hedge with numbered reference. Canopy extents and coloured BSS837:2012 tree quality category as shown below and dashed line to show hedge centreline.
  - Woodland with numbered reference. Canopy extents coloured to match BSS837:2012 tree quality category as shown below and dashed line to show indicative tree line.
- BSS837:2012 Tree Quality Categories - Table 1**
- Category A - High quality
  - Category B - Moderate quality
  - Category C - Low quality
  - Category U - Unstable for retention
- Direction of first significant branch
  - Road protection area (RPA) Calculated in accordance with Section 4.6 - BSS837:2012
  - Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)
  - Tree protected by Tree Preservation Order. Bracketed number relates to the TPO reference.
  - 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)
  - Projected tree loss required for construction of the Project (worst case scenario)
  - Indicative Scheme Layout
  - Indicative temporary protective fence/line in accordance with Section 6.2 - BSS837:2012. See below for example barriers.
  - Indicative secondary protective Hx15 Mesh fence in accordance with Section 6.2 - BSS837:2012. 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 ES Appendix B.10.1: Tree Survey Report and Arboricultural
- Some trees are to be removed from the ground and are not intended as a full arboricultural operation.
- Plan information is for information only and is not intended as a final design or construction detail.
- BSS837:2012 - "Trees in Relation to Design, Demolition and Construction"
- Some trees are to be removed from the ground and are not intended as a full arboricultural operation.



DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans**  
Appendix 5.3.2 Annex 6  
Sheet 10 of 13

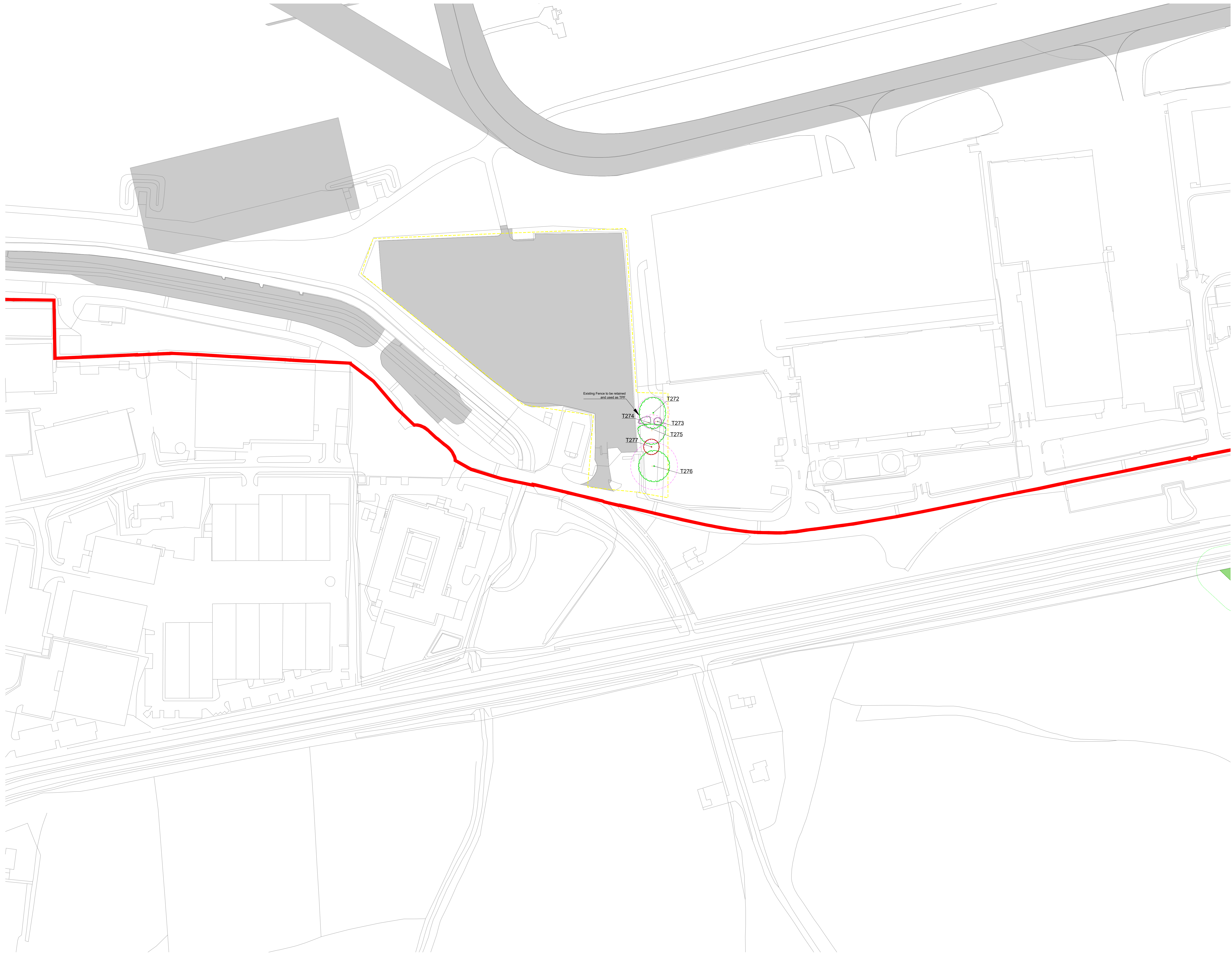
DATE  
**August 2024**

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

SCALE @ A0  
0m 25m 50m

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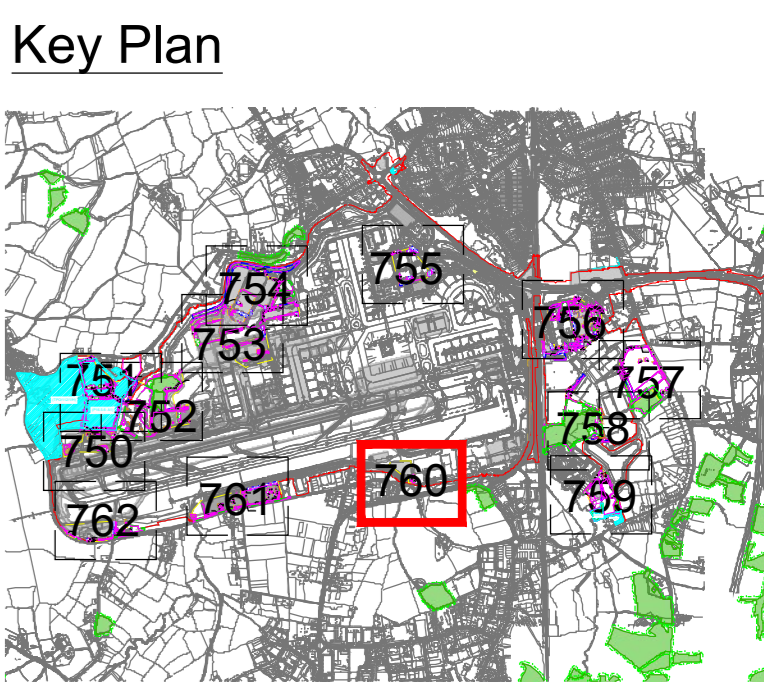
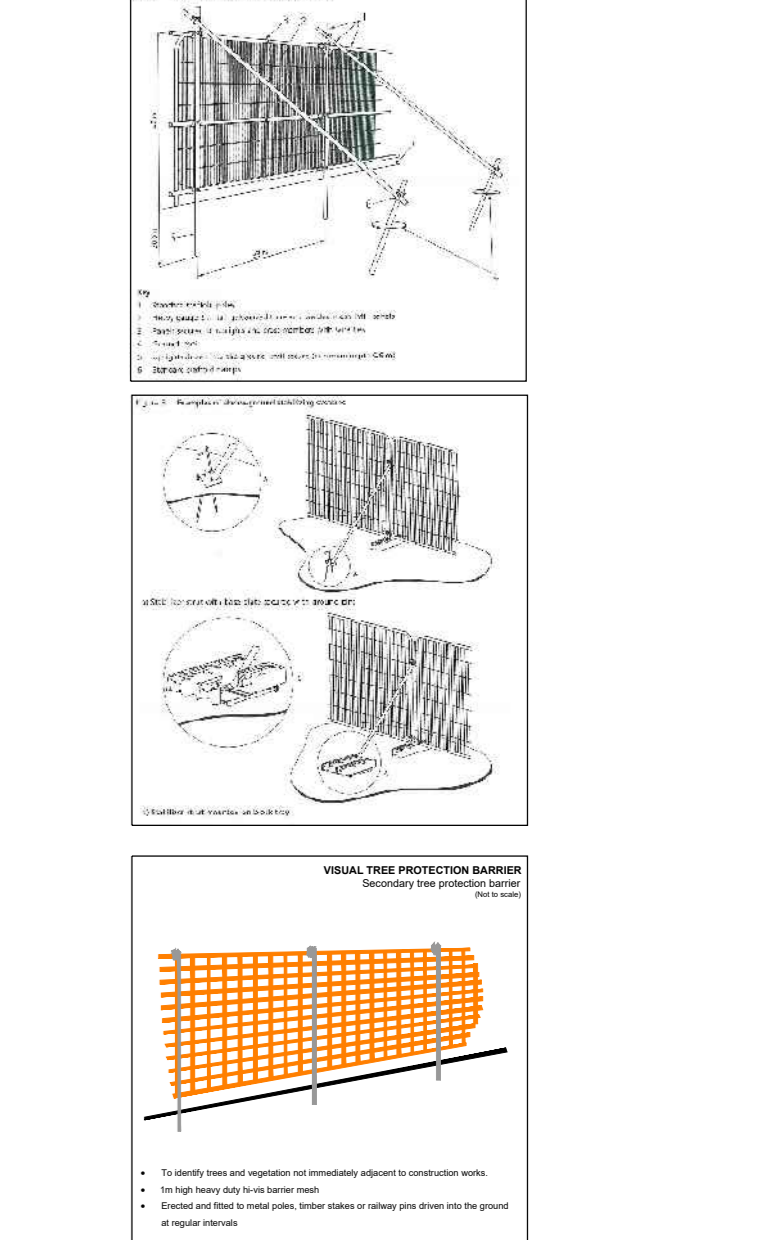




- ### Key
- Site boundary.
  - Survey boundary.
  - Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
    - = Tree details estimate (inaccessible tree)
    - = Tree in off site location
  - Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below 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
  - 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 relates to the TPO reference.
  - 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)
  - Projected tree loss required for construction of the Project (worst case scenario)
  - Indicative Scheme Layout
  - Indicative temporary protective fence/line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative secondary protective Hx15 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 ES Appendix 6.10.1: Tree Survey Report and Arboricultural
- Impact Assessment for further details.
- Plans are not intended to be used as a substitute for professional advice.
- Plans are not intended to be used as a substitute for professional advice.
- BS5837:2012 - "Trees in Relation to Design, Demolition and Construction"
- Some trees have been photographed and trees located by eye.



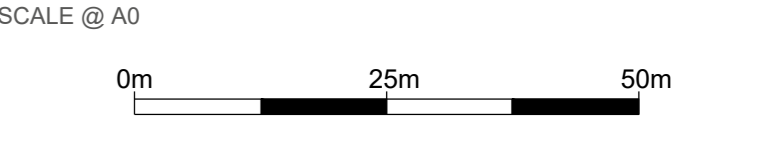
DOCUMENT

**Environmental Statement**

DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans**  
 Appendix 5.3.2 Annex 6  
 Sheet 11 of 13

DATE  
 August 2024

ORIENTATION N	DRAWING NO. 760	REVISION For ES Issue
	DRAWN BY RC	PM / CHECKED BY DC



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### Key

- Site 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.

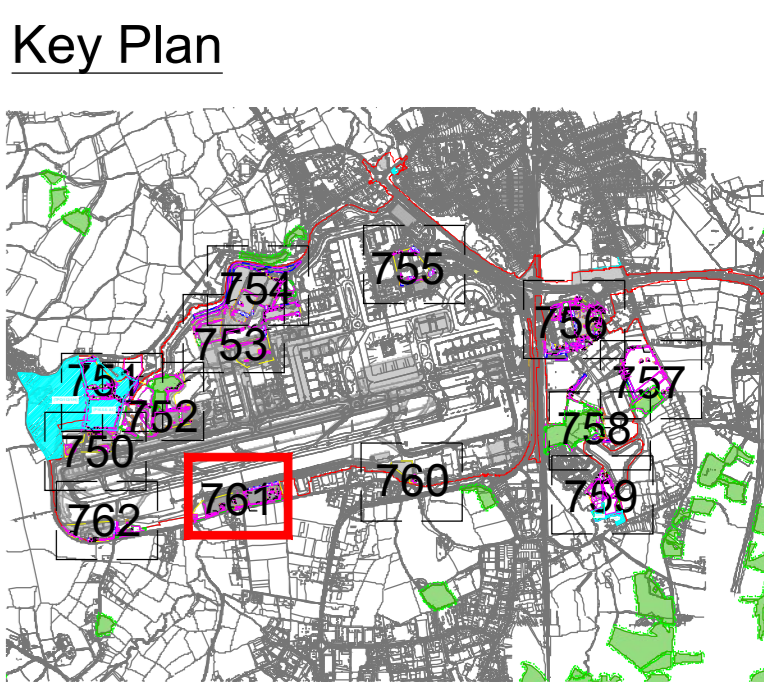
BS 5837:2012 Tree Quality Categories - Table 1

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

- Direction of first significant branch
- Road protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Vegetation buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)
- Tree protected by Tree Preservation Order. Bracketed number relates to the TPO reference.
- 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)
- Projected tree loss required for construction of the Project (worst case scenario)
- Indicative Scheme Layout
- Indicative temporary protective fence/line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
- Indicative secondary protective HxM 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 ES Appendix B.10.1: Tree Survey Report and Arboricultural Impact Assessment for further details.
- Some trees are to be removed from the ground and are not intended as a net arboricultural improvement.
- For information, the following are in BS 5837:2012 - 'Trees in Relation to design, demolition and construction':
- Some trees are near the Project and trees visible to eye.



DOCUMENT

**Environmental Statement**

DRAWING TITLE  
**Airport Preliminary Tree Removal & Protection Plans**  
 Appendix 5.3.2 Annex 6  
 Sheet 12 of 13

DATE  
**August 2024**

ORIENTATION N	DRAWING NO. 761	REVISION For ES Issue
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SCALE @ A0  
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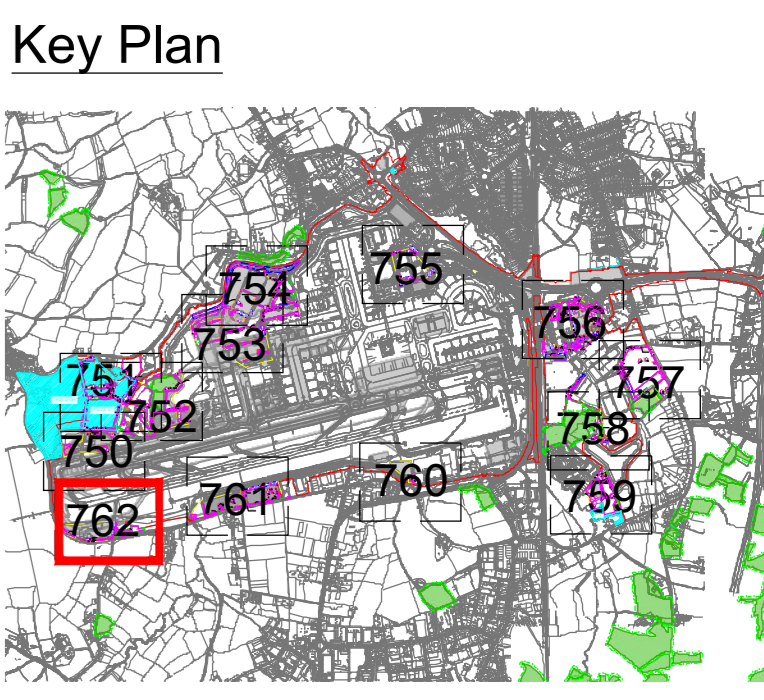
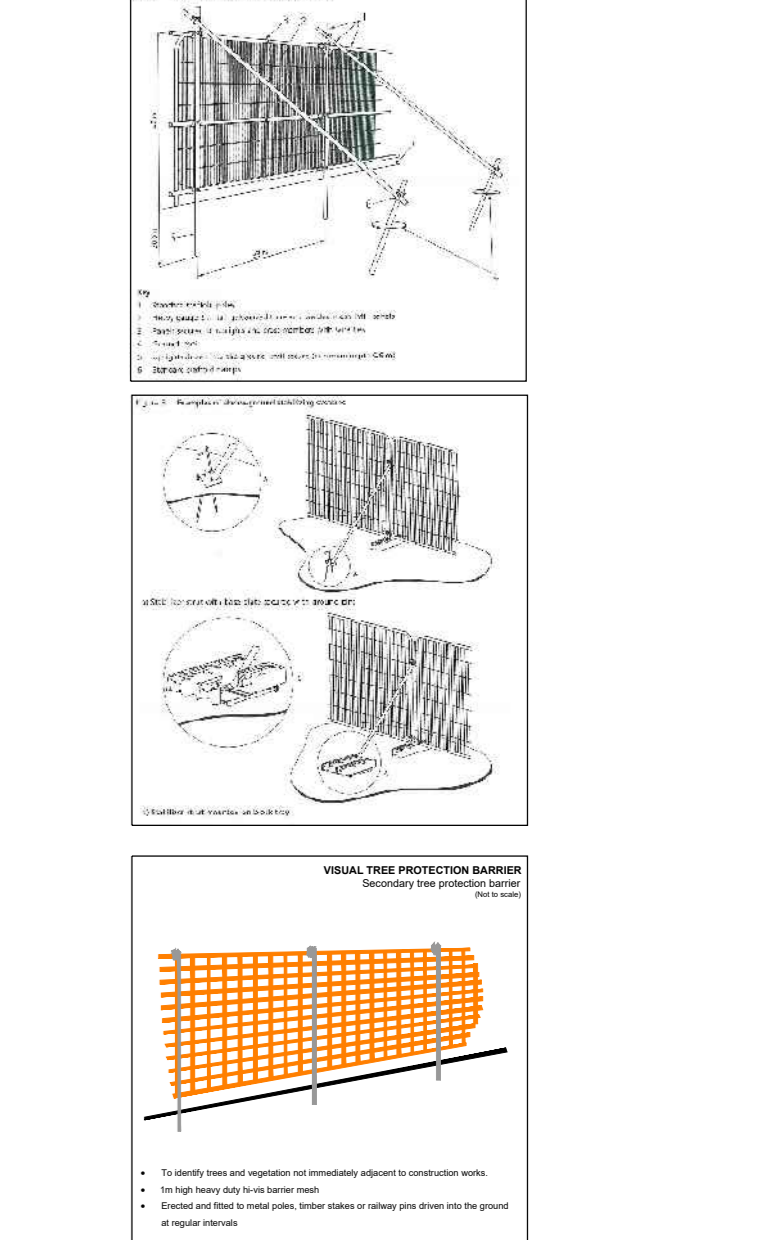




- Key**
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    - = Tree details estimate (accessible tree)
    - = Tree in off site location
  - Tree group plotted with individual stem locations and numbered reference. Canopy extents coloured to match BS5837:2012 tree quality category as shown below.
  - 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 - Unstable for retention
- Direction of first significant branch
  - Road protection area (RPA). Calculated in accordance with Section 4.6 of 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. Bracketed number relates to the TPO reference.
  - 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)
  - Projected tree loss required for construction of the Project (worst case scenario)
  - Indicative Scheme Layout
  - Indicative temporary protective fence/line in accordance with Section 6.2 - BS5837:2012. See below for example barriers.
  - Indicative secondary protective HxM Mesh fence 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 ES Appendix 6.10.1: Tree Survey Report and Arboricultural
- Impact Assessment for further details.
- Plans and/or drawings in this report from the ground and is not intended as a full arboricultural inspection.
- Plans and/or drawings in this report are recommendations set out in BS 5837:2012 - 'Trees in Relation to design, demolition and construction'.
- Some trees are here Photographed and trees visible to eye.

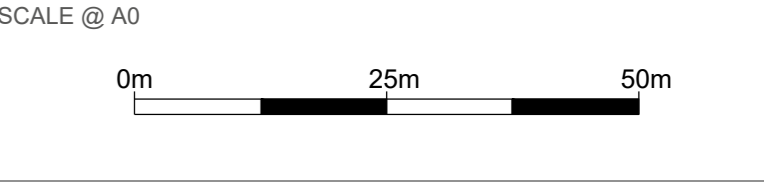


**Environmental Statement**

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

DATE  
 August 2024

ORIENTATION	DRAWING NO.	REVISION
N	762	For ES Issue
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	RC	DC



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Appendix C  
M23 & A23 Preliminary Vegetation Removal & Protection Plans





**Legend**

-  Site Boundary
-  Survey Boundary / Boundary of M23/A23 construction activity
-  Projected Tree Loss (Worst Case Scenario)
-  Grassland - Modified Grassland
-  Grassland - Other Neutral Grassland
-  Heathland and Shrub - Mixed Scrub
-  Individual Trees - Urban Tree
-  Lakes - Ponds
-  Sparsely Vegetated Land - Ruderal Ephemeral
-  Urban - Artificial Unvegetated Unsealed Surface
-  Urban - Introduced Shrub
-  Watercourse Footprint
-  Wetland - Reedbeds
-  Woodland and Forest - Other Woodland Broadleaved
-  Indicative temporary protective 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 ES Appendix 8.10.1: Tree Survey Report and Arboricultural Impact Assessment for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plans produced in accordance with recommendations set out in BS 5837:2012 - "Trees in Relation to Design, Demolition and Construction".
- Survey based upon Aerial Photography and trees located by eye.

DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**M23 & A23 Preliminary Vegetation Removal & Protection Plans Appendix 5.3.2 Annex 6 Overview**

DATE  
**August 2024**


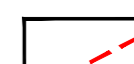









ORIENTATION N ▲	DRAWING NO. <b>829</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>RC</b>	PM / CHECKED BY <b>DC</b>

SCALE @ A0  
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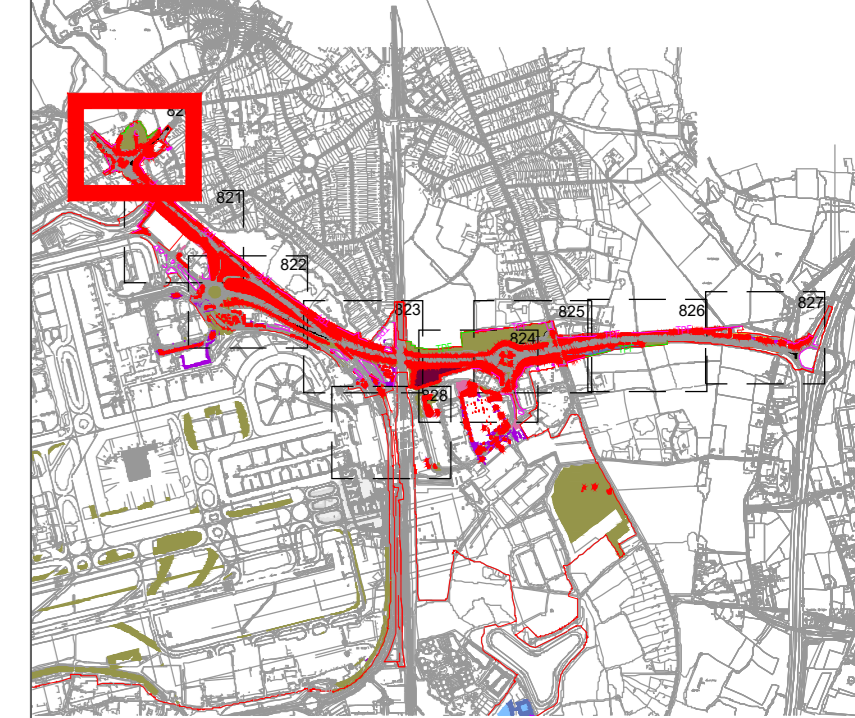
**Legend**

-  Site Boundary
-  Survey Boundary / Boundary of M23/A23 construction activity
-  Projected Tree Loss (Worst Case Scenario)
-  Grassland - Modified Grassland
-  Grassland - Other Neutral Grassland
-  Heathland and Shrub - Mixed Scrub
-  Individual Trees - Urban Tree
-  Lakes - Ponds
-  Sparsely Vegetated Land - Ruderal Ephemeral
-  Urban - Artificial Unvegetated Unsealed Surface
-  Urban - Introduced Shrub
-  Watercourse Footprint
-  Wetland - Reedbeds
-  Woodland and Forest - Other Woodland Broadleaved
-  Indicative temporary protective 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 ES Appendix 8.10.1: Tree Survey Report and Arboricultural Impact Assessment 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, Demolition and Construction".
  - Survey based upon Aerial Photography and trees located by eye.



**Key Plan**



DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**M23 & A23 Preliminary Vegetation Removal & Protection Plans Appendix 5.3.2 Annex 6 Sheet 1 of 9**

DATE  
**August 2024**

ORIENTATION N	DRAWING NO. <b>820</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>RC</b>	PM / CHECKED BY <b>DC</b>

SCALE @ A0  
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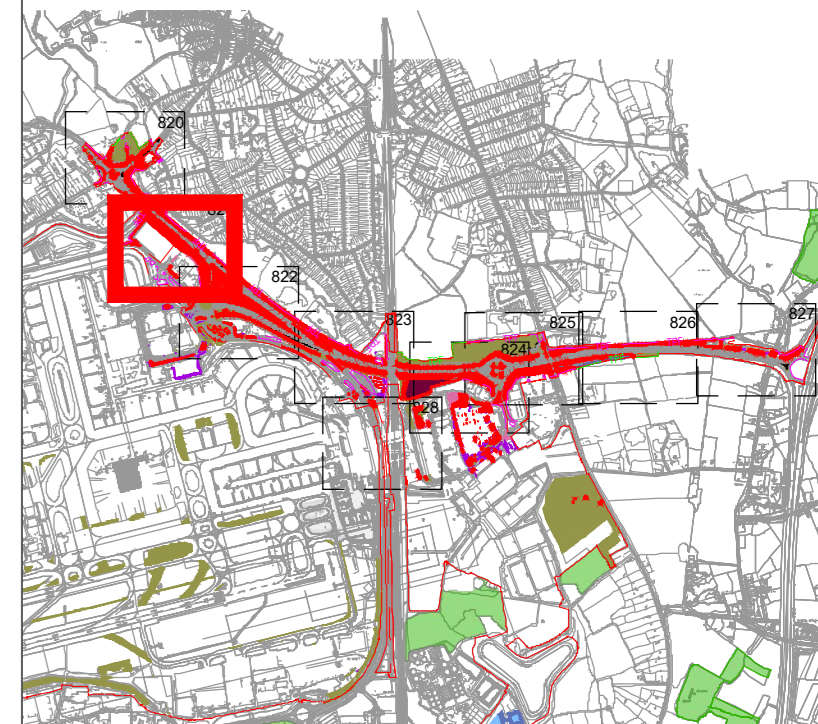


**Legend**

-  Site Boundary
-  Survey Boundary / Boundary of M23/A23 construction activity
-  Projected Tree Loss (Worst Case Scenario)
-  Grassland - Modified Grassland
-  Grassland - Other Neutral Grassland
-  Heathland and Shrub - Mixed Scrub
-  Individual Trees - Urban Tree
-  Lakes - Ponds
-  Sparsely Vegetated Land - Ruderal Ephemeral
-  Urban - Artificial Unvegetated Unsealed Surface
-  Urban - Introduced Shrub
-  Watercourse Footprint
-  Wetland - Reedbeds
-  Woodland and Forest - Other Woodland Broadleaved
-  Indicative temporary protective 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 ES Appendix 8.10.1: Tree Survey Report and Arboricultural Impact Assessment 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, Demolition and Construction".
  - Survey based upon Aerial Photography and trees located by eye.

**Key Plan**




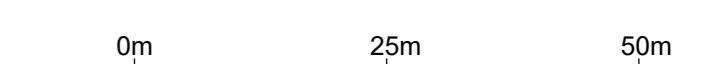
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**Environmental Statement**

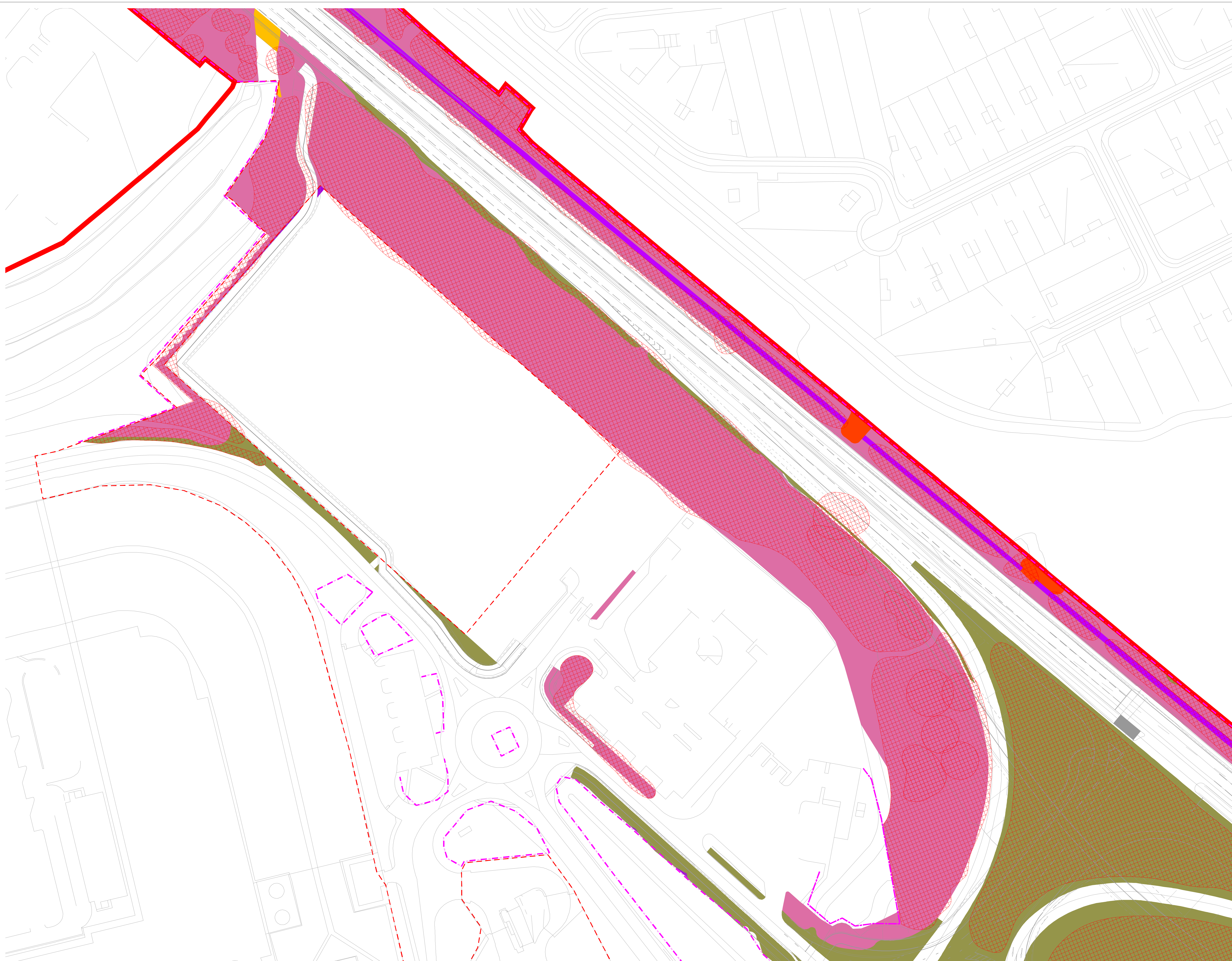
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**M23 & A23 Preliminary Vegetation Removal & Protection Plans**  
**Appendix 5.3.2 Annex 6**  
**Sheet 2 of 9**

**DATE**  
**August 2024**

 <b>N</b>	DRAWING NO. <b>821</b>	REVISION <b>For ES Issue</b>
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**SCALE @ A0**  


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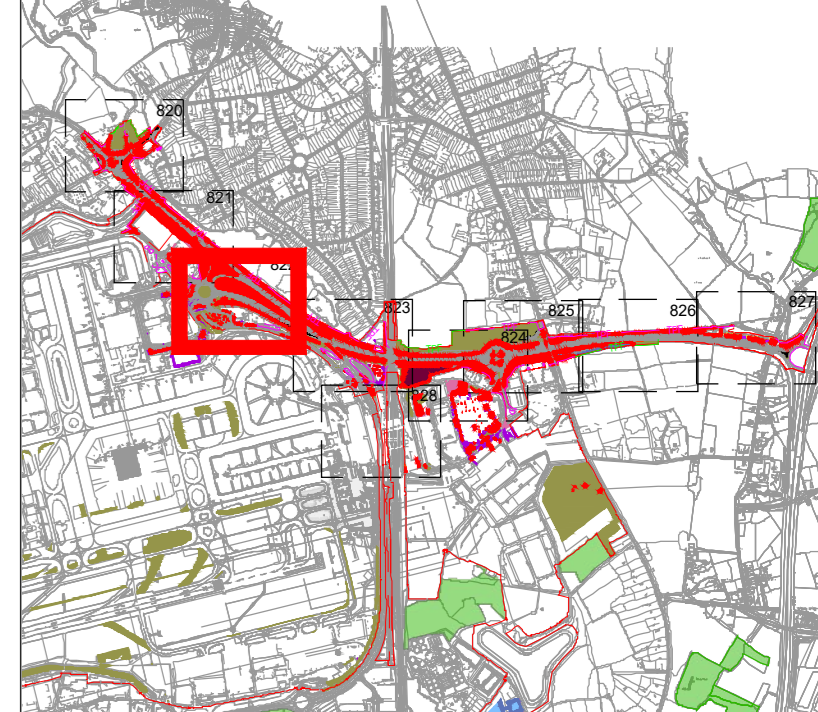
**Legend**

-  Site Boundary
-  Survey Boundary / Boundary of M23/A23 construction activity
-  Projected Tree Loss (Worst Case Scenario)
-  Grassland - Modified Grassland
-  Grassland - Other Neutral Grassland
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**NOTES:**

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- 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, Demolition and Construction'.
- Survey based upon Aerial Photography and trees located by eye.

**Key Plan**



DOCUMENT

**Environmental Statement**

DRAWING TITLE  
**M23 & A23 Preliminary Vegetation  
 Removal & Protection Plans  
 Appendix 5.3.2 Annex 6  
 Sheet 3 of 9**

DATE  
**August 2024**

ORIENTATION	DRAWING NO.	REVISION
N ↑	822	For ES Issue
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SCALE @ A0  
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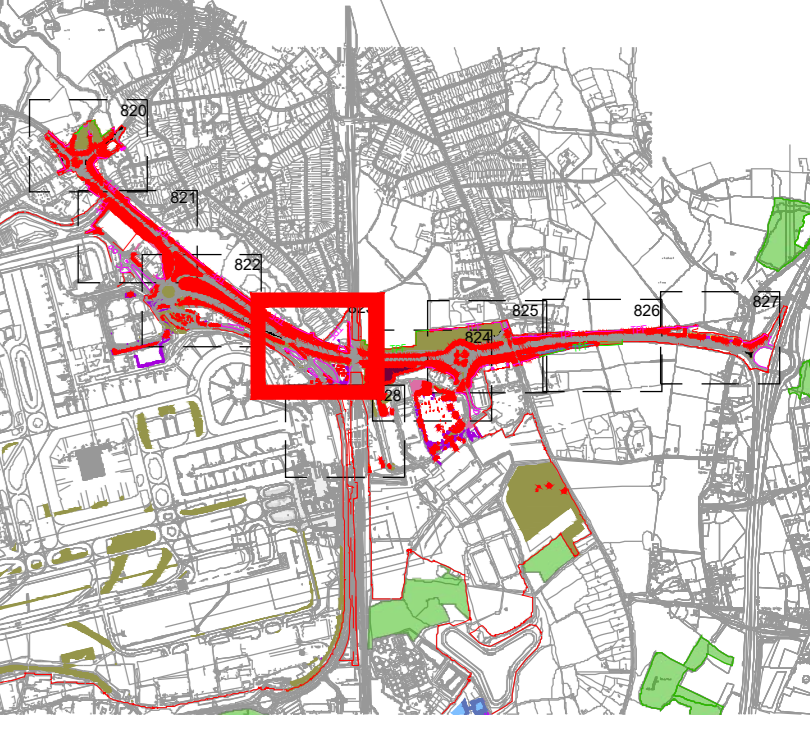
**Legend**

-  Site Boundary
-  Survey Boundary / Boundary of M23/A23 construction activity
-  Projected Tree Loss (Worst Case Scenario)
-  Grassland - Modified Grassland
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**NOTES:**

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- 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, Demolition and Construction'.
- Survey based upon Aerial Photography and trees located by eye.

**Key Plan**



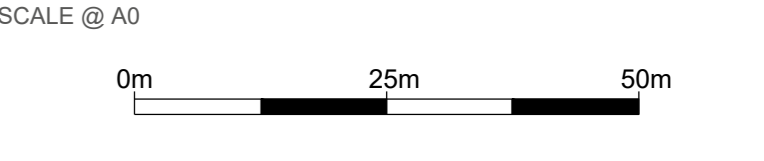
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**Environmental Statement**

DRAWING TITLE  
**M23 & A23 Preliminary Vegetation Removal & Protection Plans**  
 Appendix 5.3.2 Annex 6  
 Sheet 4 of 9

DATE  
 August 2024

ORIENTATION N	DRAWING NO. 823	REVISION For ES Issue
	DRAWN BY RC	PM / CHECKED BY DC






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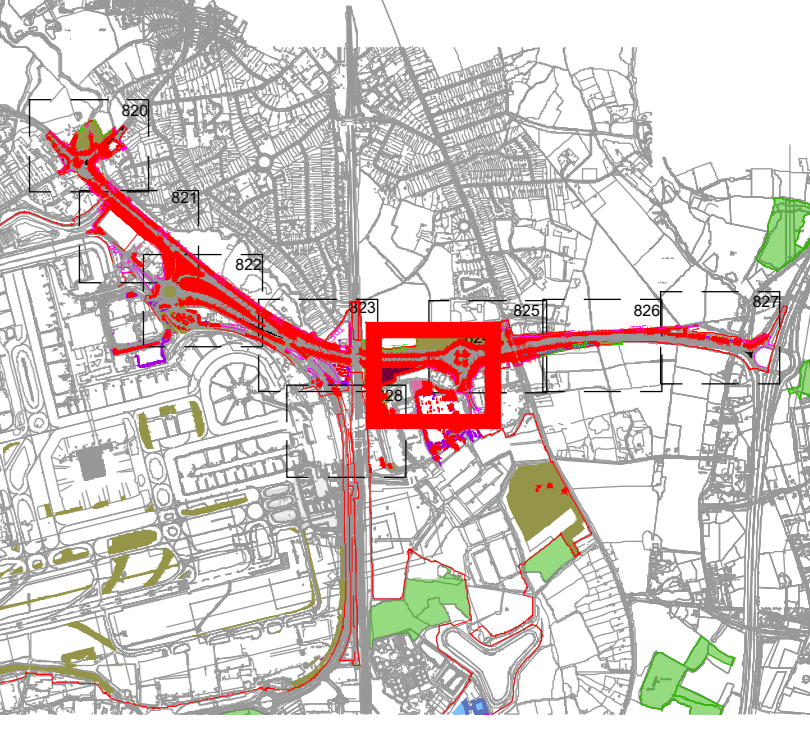
**Legend**

-  Site Boundary
-  Survey Boundary / Boundary of M23/A23 construction activity
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-  Grassland - Modified Grassland
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- 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, Demolition and Construction".
- Survey based upon Aerial Photography and trees located by eye.

**Key Plan**



**DOCUMENT**

**Environmental Statement**

**DRAWING TITLE**  
**M23 & A23 Preliminary Vegetation Removal & Protection Plans**  
**Appendix 5.3.2 Annex 6**  
**Sheet 5 of 9**

**DATE**  
 August 2024

N ↑	<b>DRAWING NO.</b> 824	<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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**Legend**

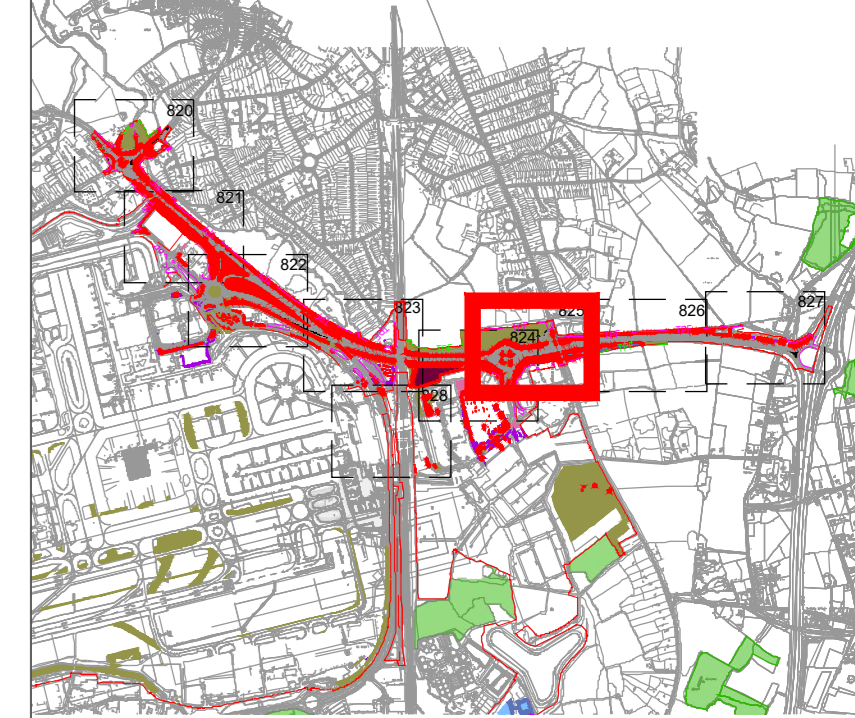
-  Site Boundary
-  Survey Boundary / Boundary of M23/A23 construction activity
-  Projected Tree Loss (Worst Case Scenario)
-  Grassland - Modified Grassland
-  Grassland - Other Neutral Grassland
-  Heathland and Shrub - Mixed Scrub
-  Individual Trees - Urban Tree
-  Lakes - Ponds
-  Sparsely Vegetated Land - Ruderal Ephemeral
-  Urban - Artificial Unvegetated Unsealed Surface
-  Urban - Introduced Shrub
-  Watercourse Footprint
-  Wetland - Reedbeds
-  Woodland and Forest - Other Woodland Broadleaved
-  Indicative temporary protective 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 ES Appendix 8.10.1: Tree Survey Report and Arboricultural Impact Assessment 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, Demolition and Construction".
- Survey based upon Aerial Photography and trees located by eye.



**Key Plan**



**DOCUMENT**  
**Environmental Statement**

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

**DATE**  
August 2024

<b>ORIENTATION</b> N	<b>DRAWING NO.</b> 825	<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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