

# Arboricultural Statement

**Trident Road Junction, Phase 8, Upper Heyford**

**On behalf Heyford Park Estates Ltd**

**13<sup>th</sup> July 2018**

**Prepared by: Michael Paginton** TechArborA

**BS5837:2012 'TREES IN RELATION TO DESIGN, DEMOLITION AND CONSTRUCTION –  
RECOMMENDATIONS'**

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**REVISIONS:**

<b>Date</b>	<b>Rev</b>	<b>Description</b>	<b>Initials</b>
13.07.18	-	First Issue	MGP

## 1 INTRODUCTION

1.1 LandArb Solutions Ltd have been instructed by Heyford Park Estates Ltd to prepare an Arboricultural Statement to accompany an Application to Discharge Condition 3 attached to approved Application 17/00663/F relating to the road infrastructure at Heyford Trident.

1.2 Condition 3 states:

*Prior to the occupation of the 100th dwelling on the Trident parcels Dorchester Phase 8 (ref:16/00864/REM) and Bovis Parcel B4a/b (ref: 17/00983/REM), details of the junctions of Trident Roads 6, 7 and 8 on the land within the orange area identified in plan No. HEYF-5-1002 M shall be submitted to the Local Planning Authority for approval, including a timetable for implementation. Following approval of these details, the development shall be undertaken in accordance the details as so approved.*

1.3 Trident Road Network Plan (Drawing HEYF-5-1002M) submitted as part of Application 17/00663/F included an area highlighted in red around the Trident Roads 6, 7 and 8 Junction that advised that further details would be submitted as part of Discharge of Condition in relation to this Junction.

1.4 Although Condition 3 does not relate directly to the preparation of revised arboricultural information, it is recognised that alterations to the Trident Road 6, 7 and 8 Junction have the potential to impact upon existing trees in this area. In light of this, the Applicant has commissioned LandArb Solutions to prepare an arboricultural statement that assesses the potential impacts of proposals to be submitted alongside junction details submitted as part of the Discharge of Condition 3.

### Previous Arboricultural Reports

1.5 An Arboricultural Impact Assessment was submitted alongside the Trident Road Application (17/00663/F), prepared by Pegasus Group (reference D.0341, AIA, dated 21.03.17). Following amendments to the submitted Trident Roads Site Plan an addendum to the AIA was prepared by West Waddy ADP (Reference RFP-945, dated

25.08.17) that assessed the impacts of the amendments and revised the Tree Retention/Removal and Protection Plan which accompanied the AIA (Appendix 1).

- 1.6 The submitted AIA report by Pegasus Group and subsequent Addendum Report prepared by West Waddy ADP form part of the approved plans and documents for Application 17/00663/F. This Arboricultural Statement should be read in conjunction with the previous Approved Arboricultural Reports and will supersede these reports in relation to the Trident Roads 6, 7 and 8 Junction only.

## 2 DOCUMENTS AND INFORMATION RECEIVED

2.1 For the purposes of preparing this Arboricultural Statement LandArb Solutions were provided with the following information:

1. Site wide tree survey and tree survey schedule prepared by Pegasus Group between 2013-2017.
2. AIA Report, Pegasus Group, D.0341, dated 21.03.17
3. AIA Report Addendum, West Waddy ADP, RFP-945, Dated 25.08.17
4. Trident Roads Junction Tracking Plan, Woods Hardwick, Drawing HEY-SK342.A, dated 24.04.18

### 3 ARBORICULTURAL IMPACT ASSESSMENT

- 3.1 With reference to BS5837:2012 '*Trees in relation to design, demolition and construction*', this AIA evaluates the direct and indirect effects of the Trident Roads 6, 7 and 8 Junction details (Appendix 2) on the site's arboricultural resource. This AIA should be read in conjunction with the previous Arboricultural Assessment (prepared by Pegasus 21.03.17 and Addendum Report by West Waddy ADP dated 25.08.17).

#### Tree Retention and Loss

- 3.2 The approved Arboricultural Addendum Report and accompanying Tree Retention/Removal and Protection Plan (Appendix 1) shows that existing trees (G485) lining the southern side of Trident Road 6, trees either side of Trident Road 7 (G486) and trees to the north and south of Trident Road 8 (T1450-1454 and G507) were identified to be retained. Trees part of G506 and G505 on the southern side of Trident Road 8 are shown as to be removed as part of the approved Trident Phase 8 application (16/00864/REM).
- 3.3 The Trident Road network is to be upgraded and serviced by a bus route. However, at the junction of Trident Roads 6, 7 and 8 clear visibility lines are required to ensure buses can safely begin and execute their turning manoeuvre through the junction unimpeded.
- 3.4 A review of Trident Road 6, 7 and 8 Junction details (as shown on drawing HEYF-SK342A) shows that in order to achieve the visibility lines required by Oxfordshire County Council both trees either side of Trident Road 7 (G486) are now to be removed. It should be noted that designs to upgrade the wider Trident Road network responded to arboricultural constraints and sought to retain the vast majority of trees lining the road network whilst ensuring compliance with Oxford Country Council requirements for road and footpath widths. This is documented within the approved AIA Addendum Report by West Waddy, where in some locations widening works to

the road networks will take place on opposite sides of the road away from retained trees or standard footpath widths have been reduced so as to ensure existing trees are retained. However, in relation to Trident Roads 6, 7 and 8 Junction details, it has not been possible to retain G486 and meet the requirements of Oxfordshire County Council regarding the use of the junction for buses. It is considered that the loss of G486 is unavoidable. However, it should be noted that the majority of trees lining the trident Road network will still be retained, ensuring this landscape feature is preserved for the future. Moreover, it would be possible to plant replacement trees in a similar location to G486, however these would need to be set further back from the junction.

- 3.5 No other trees will require removal to implement Trident Road 6, 7 and 8 junction proposals.

#### Potential Impacts to Retained Trees

- 3.6 The Trident Road Junctions Plan HEYF-SK342 A (Appendix 2) has been superimposed on to the Tree Retention/Removal Protection Plan (Appendix 3) to show the relationship between junction proposals and retained trees. It shows that there has been no significant change to the junction alignment or location of new hard surfacing in relation to retained trees compared to that which is shown in the previous Tree Retention/Removal and Protection Plan (Appendix 1) within the approved Addendum Report by West Waddy ADP.
- 3.7 In this context, protection fencing positions and location of areas of 'No Dig' footpath construction in relation to retained trees G485, T1450-T1454 and G507 remain unchanged and valid.
- 3.8 Given that the two trees which form G486 are to be removed, protection fencing, and no dig construction specified in relation to the eastern tree within G486 on the eastern

side of Trident Road 7 is no longer required, therefore is not shown on the Tree Retention/Removal and Protection Plan (Appendix 3).

- 3.1 This AIA includes a Junction specific Tree Retention/Removal and Protection Plan (Appendix 3), which supersedes the previous plan prepared by West Waddy ADP (Drawing P01 dated 24.08.17) in relation to the Junction only. Included in Appendix 4 an amended site wide AIA schedule which has been revised to show G486 as removed.

#### Summary

- 3.2 Having reviewed the proposed Trident Roads 6, 7 and 8 Junction proposals, it can be seen that:

- Survey item G486 (Category B) is to be removed as part of Junction proposals. Other than the removal of G486, no other tree removals are required above those previously approved as part of Application 17/00663/F.
- Protection fencing and 'no dig' footpath construction in relation to the eastern stem of G486 is no longer required.
- Junction details make no additional changes in relation to construction works within the RPAs of retained trees. Therefore, recommendations and conclusion (including protection measures and working methods) set out within the Approved AIA addendum (West Waddy 25.08.17) remain valid.



## 4 TREE PROTECTION

- 4.1 A Tree Retention / Removal and Protection Plan specific for the Trident Road 6, 7 and 8 Junction is attached in Appendix 3. This should be read in conjunction with the Trident Road Network site wide Tree Retention/Removal and Protection Plan approved as part of application 17/00663/F (included in Appendix 1 for reference).
- 4.2 Protection measures for the wider Trident Road network set out within the approved AIA Addendum Report by West Waddy ADP remain valid and unchanged.
- 4.3 All works to the Trident Road network should be undertaken in accordance with recommendations set out within the previous Arboricultural Report as follows:
- 4.4 *Temporary tree protection fencing is to provide the main method of tree protection to deter direct contact with trees stems and encroachment into their RPAs, beyond the extent of the working areas/existing hard surfacing to be replaced. In some locations, it will be necessary to adjust the protection fencing to secondary positions to either enable a no dig footpath construction or to protect areas where hard surfaces will be removed and not replaced.*
- 4.5 *In areas where new footpaths are to be constructed (where no hard surfacing has previously existed), these are to be installed using a no dig method of construction using an above ground cellular confinement system.*
- 4.6 *In addition to the above protection measures, the control of works will be an important part of tree protection given that the removal and replacement (and installation) of hard surfacing is to occur within the default RPA of many retained roadside trees. Although existing hard surfacing is likely to have resulted in the suppression of root development in these areas, it is possible that some may be present. As such it will be important to carry out the works in a sensitive way.*
- 4.7 *Where hard surfacing is to be removed and installed within any default circular RPA the following working principles should be followed;*

- *Hard surfacing is to be broken up and lifted out from within the RPAs using hand tools where possible.*
- *All removal works, including the use of a mechanical excavator (if needed) must work backwards from any RPA so as to always remain on existing hard surfaced areas.*
- *Once hard surfacing is removed from an RPA and subbase exposed, no machinery is to enter or material be stored within the exposed areas. If works need to occur within an RPA where hard surfacing has been removed, temporary ground protection such as ground guards must be installed.*
- *The existing sub-bases within the RPAs should be retained where possible and replacement hard surfacing installed on top. If excavations/replacement of the subbase is needed, works are to be carried out using hand tools. Should any significant roots be discovered, arboricultural advise should be sought on how to proceed.*
- *Where hard surfacing is removed and not replaced, fresh clean topsoil should be imported to make up the ground level to match existing. This should then be fenced off to prevent access until all works are completed and landscaping can commence if required.*
- *Works within RPAs is to be supervised to ensure the potential for damage to retained trees to be minimised.*

**APPENDIX 1: APPROVED AIA ADDENDUM TREE RETENTION REMOVAL AND PROTECTION PLAN**

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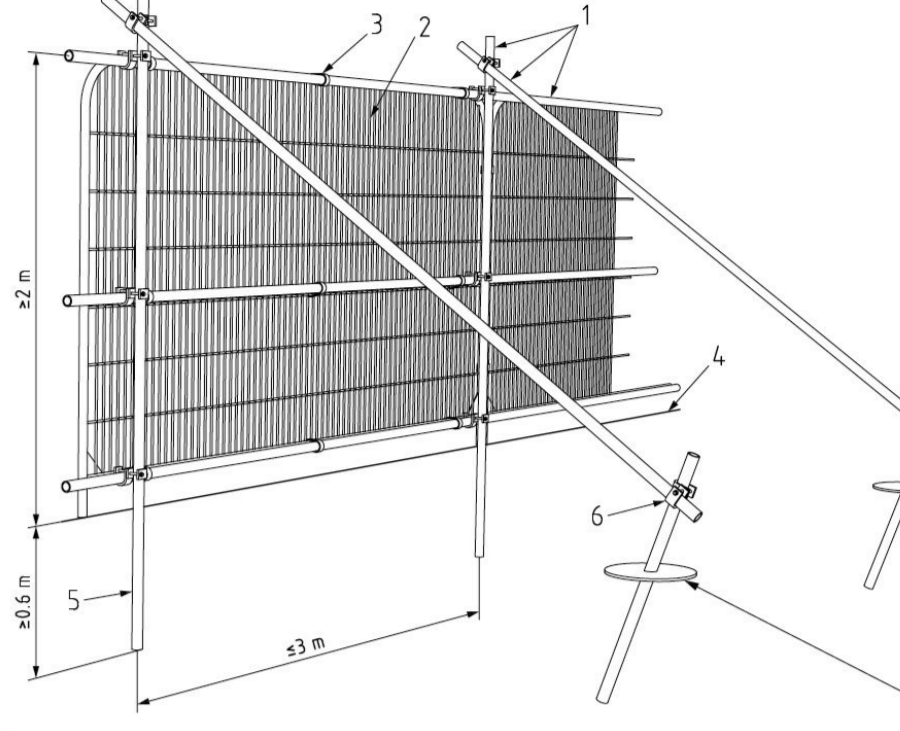
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Dimensions to be checked on site before work commences and any discrepancies reported to the Architect.

The accuracy of this drawing may be reliant upon survey information provided by third parties. No liability will be accepted by West Waddy ADP for errors in or arising from such third party survey information.

# PLANNING

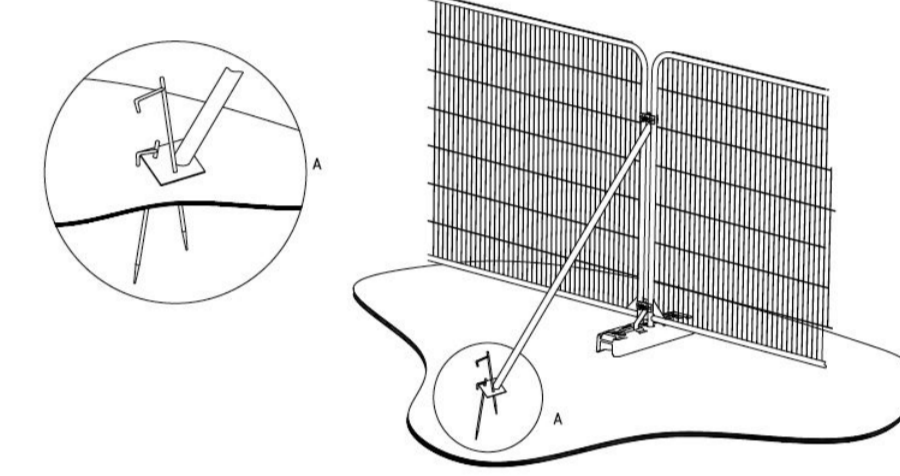
BS 5837:2012 Figure 2 Default specification for protective barrier



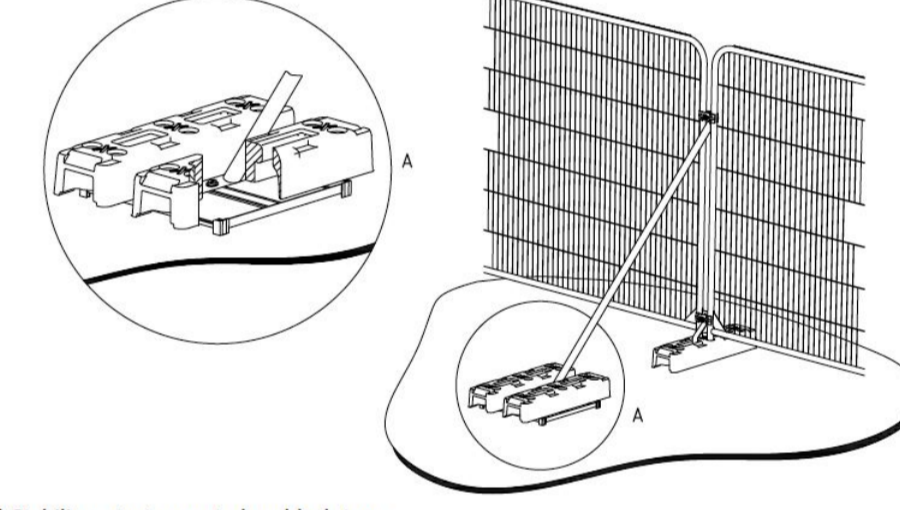
- Key**
- Standard scaffold poles
  - Heavy galvanized tube and welded mesh infill panels
  - Panels secured to uprights and cross members with wire ties
  - Ground level
  - Uprights driven into the ground until secure (minimum depth 0.6 m)
  - Standard scaffold clamps

For more details refer to BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations' p.25

BS 5837:2012 Figure 3 Examples of above-ground stabilizing systems



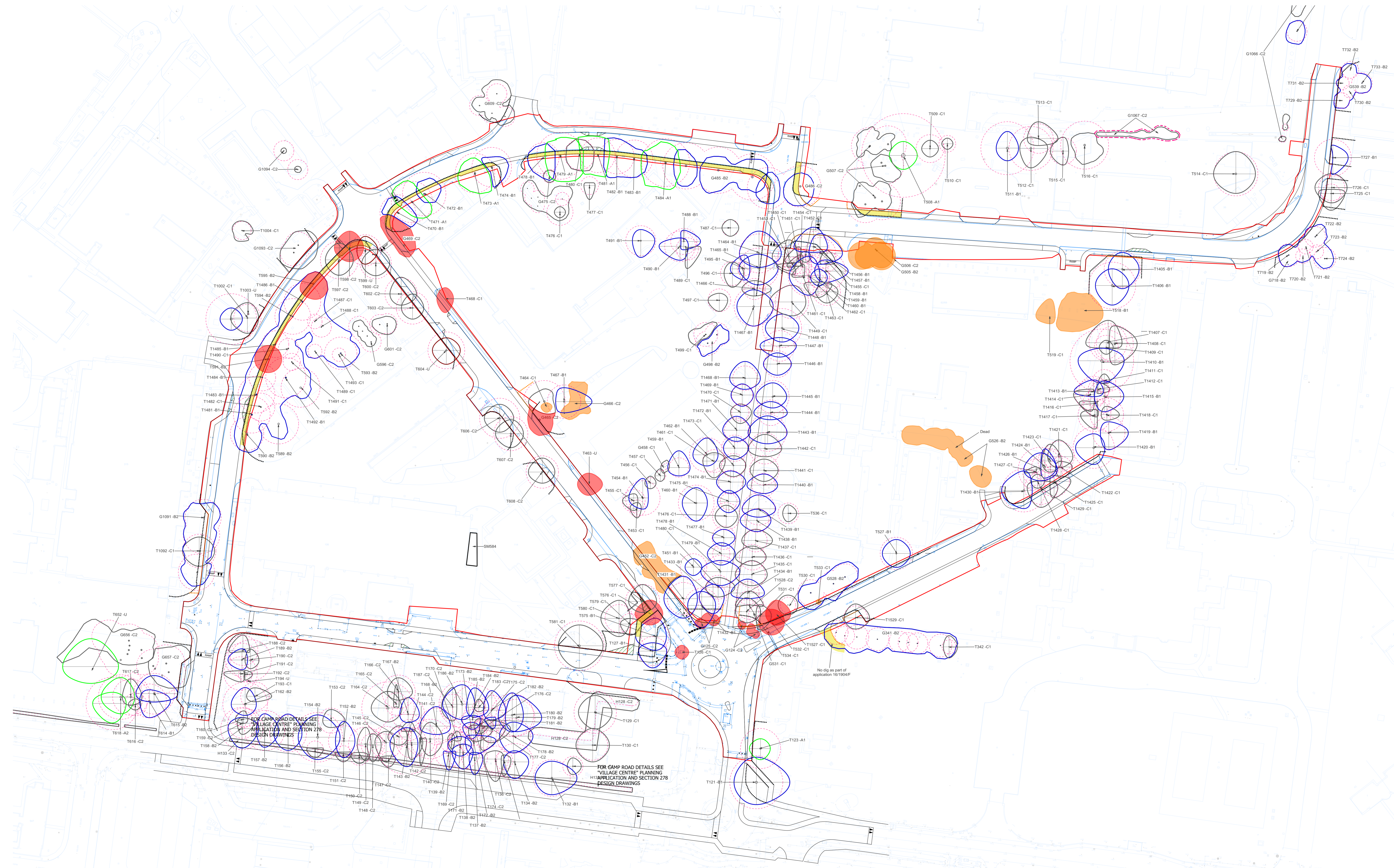
(a) Stabilizer strut with base plate secured with ground pins



(b) Stabilizer strut mounted on block tray

For more details refer to BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations' p.25

- KEY**
- BS 5837:2012 Categories
- Tree Category A - High Quality
  - Tree Category B - Moderate Quality
  - Tree Category C - Low Quality
  - A Category - Hedge/row, Group, Woodland
  - B Category - Hedge/row, Group, Woodland
  - C Category - Hedge/row, Group, Woodland
  - Tree Category U - Unsuitable for Retention
  - Root Protection Area to BS 5837:2012
  - Shrub Mass / Off-site Tree
  - Tree / Hedge/row to be Removed
  - Tree / Hedge/row to be Retained - as part of Phase 8 proposals
  - Tree Protection Barrier Primary Position to BS 5837:2012
  - Tree Protection Barrier Secondary Position to BS 5837:2012
  - Area of No Dig Construction to BS 5837:2012
  - Existing Topography
- This plan uses and revises tree survey information set out within drawing D1.0341\_1398RevA prepared by Pegasus Group 08.05.2017



FOR GMP ROAD DETAILS SEE 'VILLAGE CENTRE' PLANNING APPLICATION AND SECTION 278 DESIGN DRAWINGS

FOR GMP ROAD DETAILS SEE 'VILLAGE CENTRE' PLANNING APPLICATION AND SECTION 278 DESIGN DRAWINGS

## Phase 8 Trident Road

### Tree Retention, Removal and Protection Plan

The Malthouse  
60 East St Helen Street  
Abingdon, Oxfordshire, OX14 5EB  
Tel: 01235 523139  
Fax: 01235 521462  
e-mail: enquiries@westwaddy-adp.co.uk



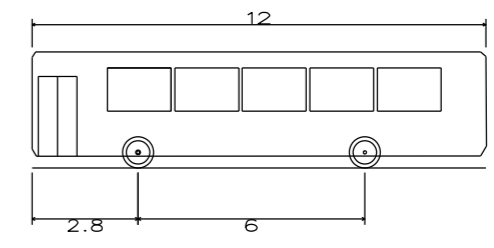
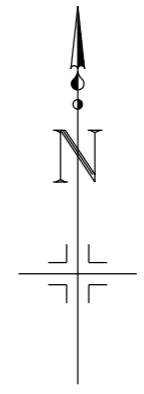
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Job	Dwg No.	Rev.
RFP-945	P01	-

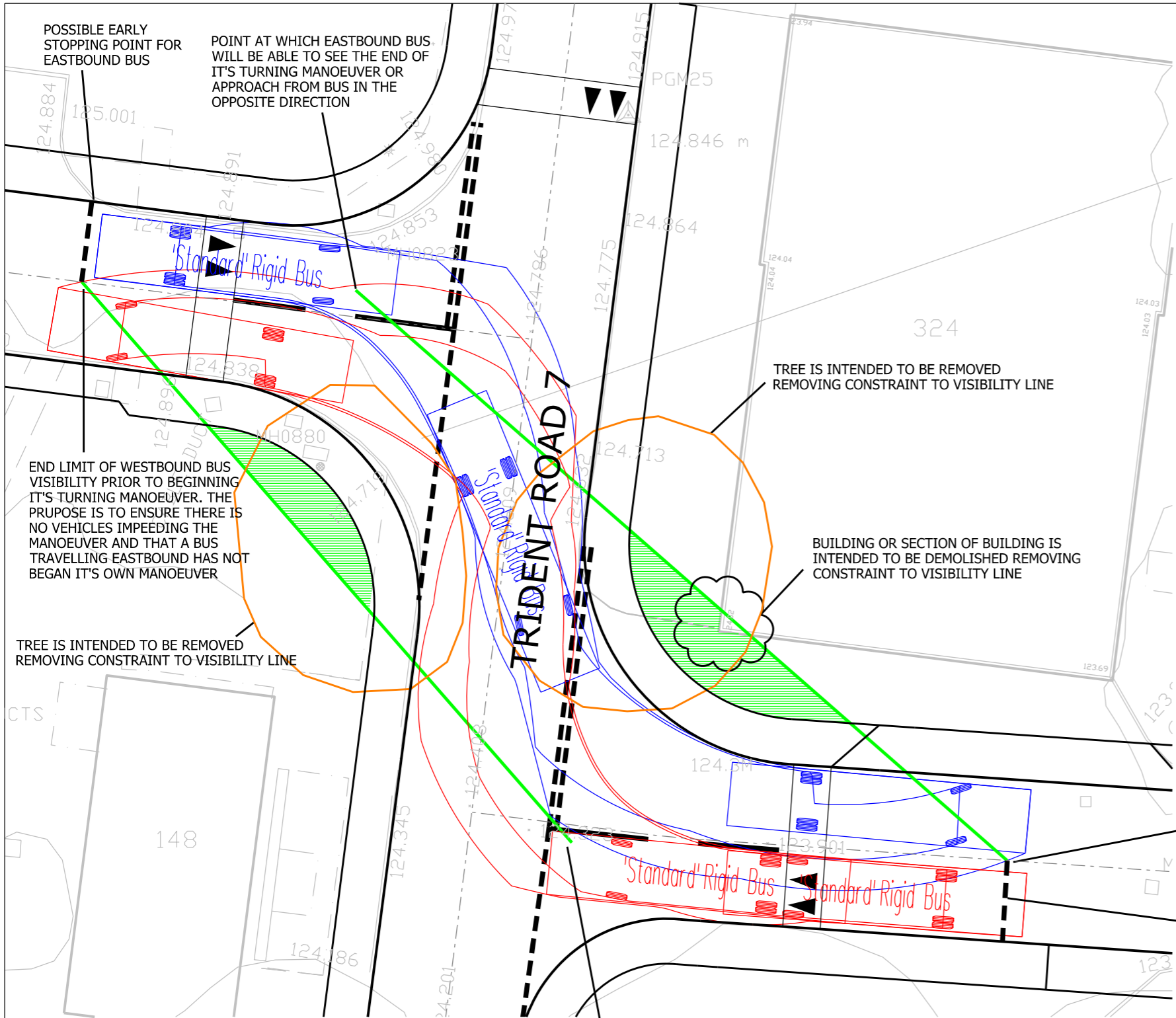
**APPENDIX 2: TRIDENT JUNCTION 6, 7 AND 8 DETAILS**

**NOTES**

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4. PRINCIPLES TO BE DISCUSSED AND AGREED WITH OXFORDSHIRE COUNTY COUNCIL AS PART OF A SECTION 38 APPLICATION.



'Standard' Rigid Bus	
Overall Length	12.000m
Overall Width	2.550m
Overall Body Height	3.069m
Min Body Ground Clearance	0.309m
Track Width	2.350m
Lock to Lock Time	4.00s
Wall to Wall Turning Radius	10.771m



POSSIBLE EARLY STOPPING POINT FOR EASTBOUND BUS

POINT AT WHICH EASTBOUND BUS WILL BE ABLE TO SEE THE END OF IT'S TURNING MANOEUVER OR APPROACH FROM BUS IN THE OPPOSITE DIRECTION

END LIMIT OF WESTBOUND BUS VISIBILITY PRIOR TO BEGINNING IT'S TURNING MANOEUVER. THE PRUPOSE IS TO ENSURE THERE IS NO VEHICLES IMPEEDING THE MANOEUVER AND THAT A BUS TRAVELLING EASTBOUND HAS NOT BEGAN IT'S OWN MANOEUVER

TREE IS INTENDED TO BE REMOVED REMOVING CONSTRAINT TO VISIBILITY LINE

TREE IS INTENDED TO BE REMOVED REMOVING CONSTRAINT TO VISIBILITY LINE

BUILDING OR SECTION OF BUILDING IS INTENDED TO BE DEMOLISHED REMOVING CONSTRAINT TO VISIBILITY LINE

END LIMIT OF EASTBOUND BUS VISIBILITY PRIOR TO BEGINNING IT'S TURNING MANOEUVER. THE PRUPOSE IS TO ENSURE THERE IS NO VEHICLES IMPEEDING THE MANOEUVER AND THAT A BUS TRAVELLING WESTBOUND HAS NOT BEGAN IT'S OWN MANOEUVER

POSSIBLE EARLY STOPPING POINT FOR WESTBOUND BUS

POINT AT WHICH WESTBOUND BUS WILL BE ABLE TO SEE THE END OF IT'S TURNING MANOEUVER OR APPROACH FROM BUS IN THE OPPOSITE DIRECTION

A	ANNOTATION ADDED	AT	JF	24.04.18	
REVISION	DESCRIPTION	DRAWN	CHECKED	DATE	
	PRELIMINARY <input checked="" type="checkbox"/>	INFORMATION <input type="checkbox"/>	TENDER <input type="checkbox"/>	CONSTRUCTION <input type="checkbox"/>	AS BUILT <input type="checkbox"/>



**WOODS HARDWICK**  
ARCHITECTS, ENGINEERS AND DEVELOPMENT CONSULTANTS

TITLE **CAMP ROAD  
UPPER HEYFORD**

DETAILS **TRIDENT ROADS  
JUNCTION TRACKING**

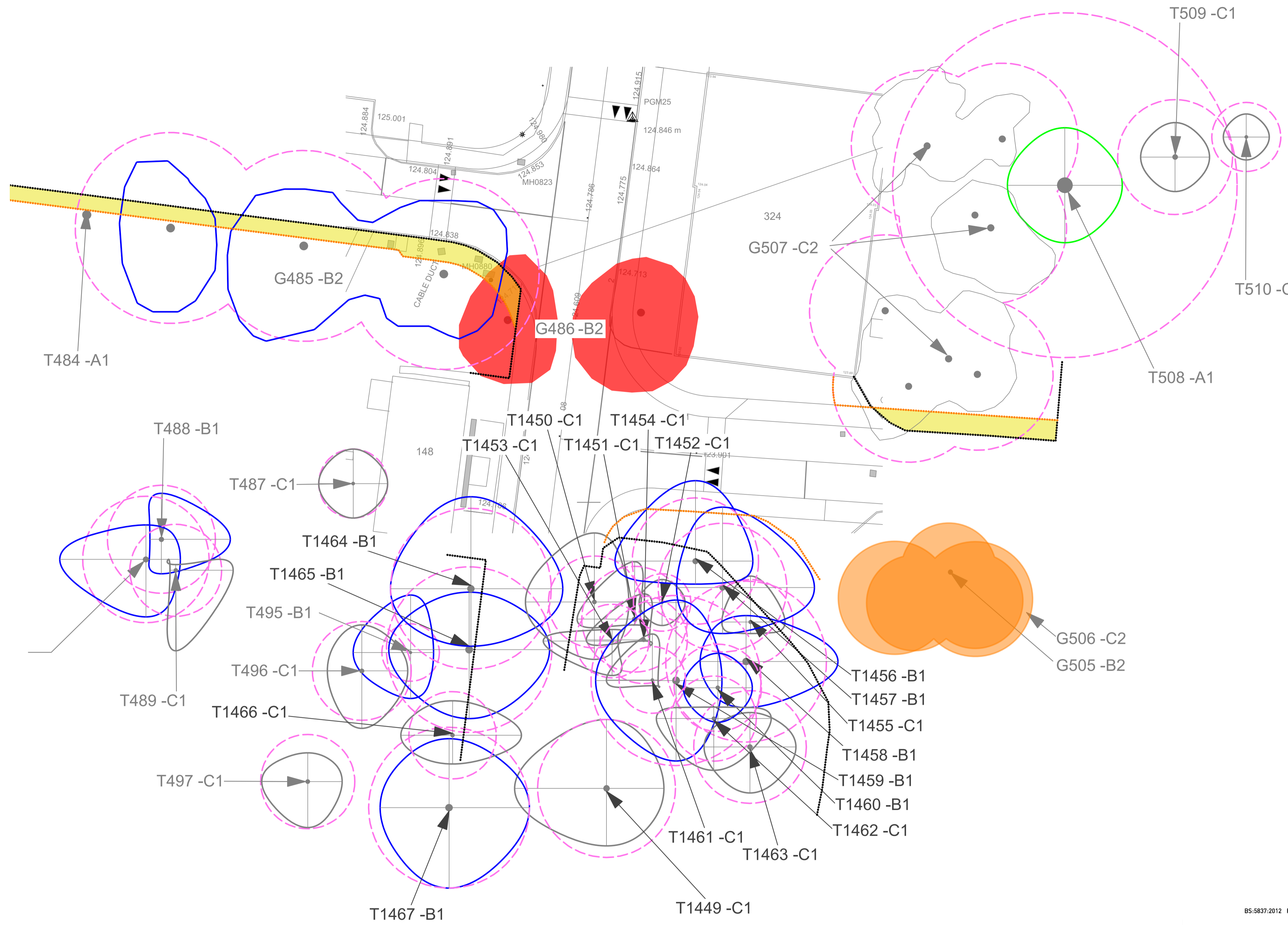
15-17 GOLDINGTON ROAD  
BEDFORD, MK40 3NH  
T. +44 (0)1234 268862  
FORT DUNLOP, FORT PARKWAY  
BIRMINGHAM, B24 9FE  
UNITED KINGDOM  
T. +44 (0)121 6297784  
MAIL@WOODSHARDWICK.COM  
WWW.WOODSHARDWICK.COM

SCALE: 1:200 @ A3      DATE: OCTOBER 2017      DRAWN: AT      CHK: AT

Please consider the environment before printing this drawing  
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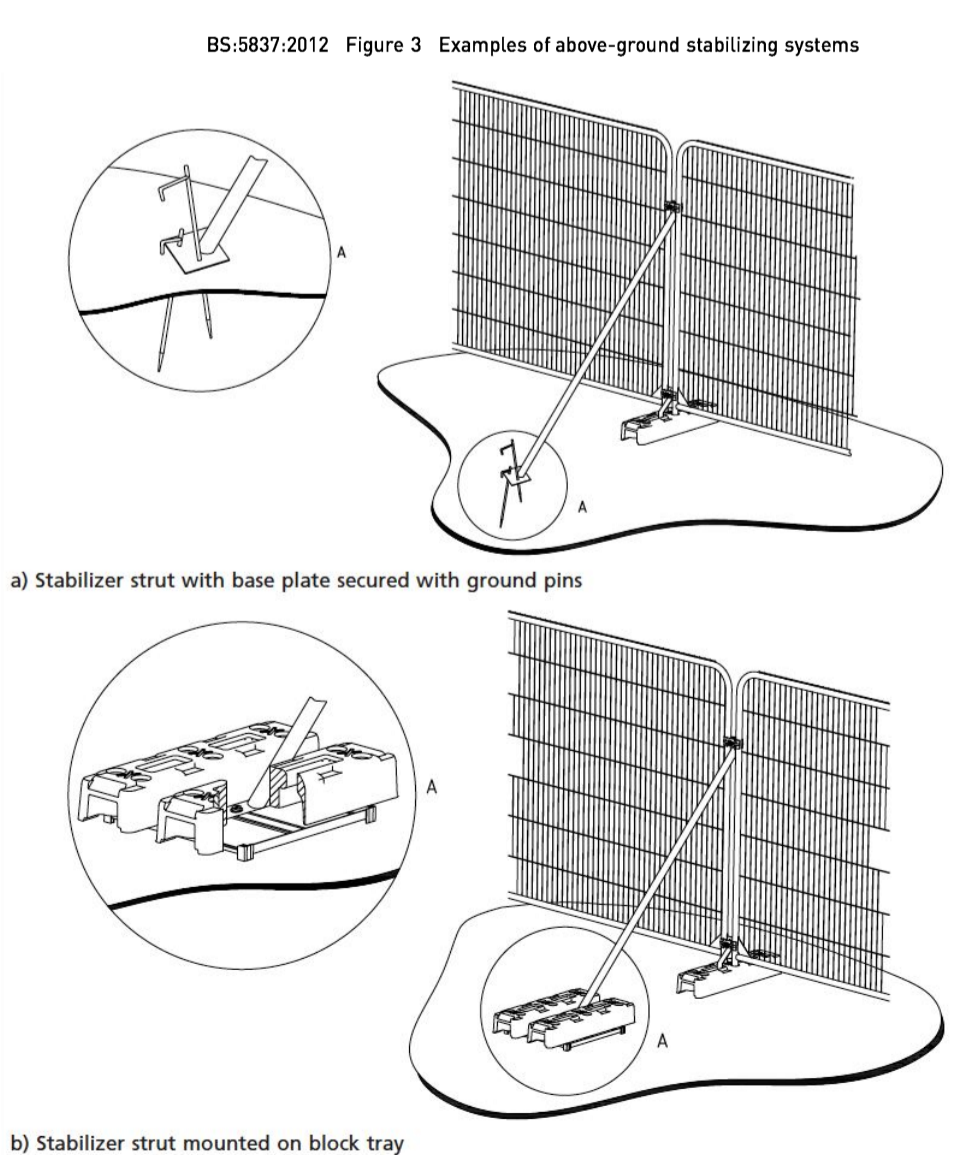
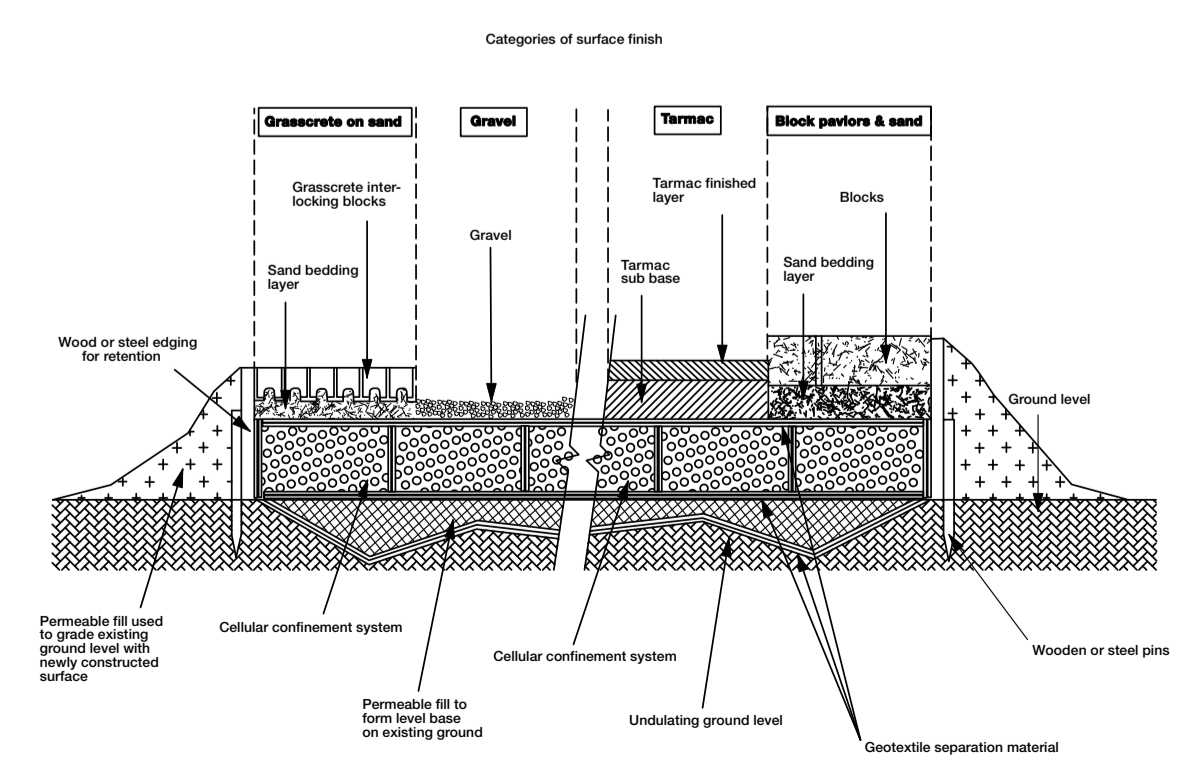
**HEYF-SK342 A**

**APPENDIX 3: TRIDENT JUNCTION SPECIFIC TREE RETENTION/REMOVAL AND PROTECTION PLAN**



**KEY - BS 5837 : 2012 Categories**

- Tree Category A - High Quality
- A Category - Hedgerow, Group, Woodland
- Tree Category B - Moderate Quality
- B Category - Hedgerow, Group, Woodland
- Tree Category C - Low Quality
- C Category - Hedgerow, Group, Woodland
- Tree Category U - Unsuitable for Retention
- Root Protection Area to BS:5837:2012
- Shrub Mass / Offsite Tree
- Tree / Hedgerow to be Removed
- Tree / Hedgerow to be removed - as part of approved phase 8 proposals
- Tree Protection Barrier Primary Postion to BS 5837:2012  
All weather information notices to read 'Construction Exclusion Zone - Keep out' A2 in size. To be attached to tree protection barriers
- Tree Protection Secondary Barrier to BS 5837:2012
- Area of 'No Dig' Construction to BS 5837:2012



Note: The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

Revision	Description	Date
-	First Issue	12/7/18

**LANDARB SOLUTIONS**

Client:  
**Dorchester Living**  
Project:  
**Trident Junction, Upper Heyford**  
Description:  
**Tree Retention, Loss and Protection Plan**  
Status:  
**For Planning**  
Scale:  
**1:200 @A1**  
Job Number:  
**LAS/06**  
Drawn | Checked  
**DP | MP**  
Drawing Number:  
**01**  
Date:  
**12/07/2018**  
Revision:  
**-**

EN



**APPENDIX 4: REVISED TRIDENT ROAD NETWORK AIA SCHEDULE**

## Arboricultural Impact Schedule

Site: Heyford Trident Roads

Ref:LAS/06

No	Species	Quality	Arboricultural effects (direct and indirect) of proposed design - description	Unadjusted scale of effect	Unadjusted significance of effect (scale effects x quality)	Recommended mitigation	Adjusted scale of effect following mitigation	Adjusted significance of effect (adj .scale effects x quality)	Tree removal required
T121	Beech (Common)	B1	Footpath to be replaced to outer RPA. Potential impacts from construction works / encroachments beyond existing hard surfacing.	Low	Minor	Temporary tree protection fencing to BS.5837:2012 to deter encroachment further into RPA. Works to be carried out by hand in accordance with an arboricultural method statement.	Slight	Insignificant	Retain
T123	Cypress (Lawson)	A1	Footpath to be replaced to outer RPA. Potential impacts from construction works / encroachments beyond existing hard surfacing.	Medium	Major	Temporary tree protection fencing to BS.5837:2012 to deter encroachment further into RPA. Works to be carried out by hand in accordance with an arboricultural method statement.	Low	Moderate	Retain
G124	Birch (Silver)	C2	Remove as part of proposals 17/00663/F	High	Moderate	New street tree planting or planting within other development parcel as compensation.	Medium	Minor	Remove
G125	Birch (Silver)	C2	Remove as part of proposals 17/00663/F	High	Moderate	New street tree planting or planting within other development parcel as compensation.	Medium	Minor	Remove
T126	Ash (Common)	C1	Remove as part of proposals 17/00663/F	High	Moderate	New street tree planting or planting within other development parcel as compensation.	Medium	Minor	Remove
T127	Lime (Common)	B1	Hard surfacing/footpath to be removed from southern default RPA. Raised planning bed to be removed from eastern part of RPA as part of roundabout reconfiguration. Potential direct contact from construction activities.	High	Major	Temporary tree protection fencing to BS.5837:2012 to be installed prior to works. Hard surface removal to be carried out by hand. Raised bed to be removed following trial hole exploration to determine root presence. Works within default RPA to be carried out in accordance with an arboricultural method statement and watching brief.	Low	Minor	Retain
T159	Sycamore	C2	Located away from main area of proposals. Not significant impacts envisaged	Medium	Minor	Footpath to be demolition and replaced in accordance with a detailed Arboricultural method statement. Temporary tree protection fencing to BS.5837/12012 to be installed during demolition and construction.	Low	Insignificant	Retain
T160	Sycamore	C2	Potential encroachment into RPA from construction activities.	Medium	Minor	Temporary tree protection to BS.5837:2012 to be installed prior to works.	None	None	Retain
T161	Elm	U	Potential encroachment into RPA from construction activities.	Medium	Minor	Temporary tree protection to BS.5837:2012 to be installed prior to works.	None	None	Retain
T162	Sycamore	B2	Potential encroachment into RPA from construction activities.	Medium	Moderate	Temporary tree protection to BS.5837:2012 to be installed prior to works.	None	None	Retain
T188	Sycamore	C1	Potential encroachment into RPA from construction activities.	Medium	Minor	Temporary tree protection to BS.5837:2012 to be installed prior to works.	None	None	Retain
T189	Beech (Common)	B1	Potential encroachment into RPA from construction activities.	Medium	Moderate	Temporary tree protection to BS.5837:2012 to be installed prior to works.	None	None	Retain
T190	Sycamore	C1	Potential encroachment into RPA from construction activities.	Medium	Minor	Temporary tree protection to BS.5837:2012 to be installed prior to works.	None	None	Retain
T191	Sycamore	C1	Potential encroachment into RPA from construction activities.	Medium	Minor	Temporary tree protection to BS.5837:2012 to be installed prior to works.	None	None	Retain
T192	Sycamore	C1	Potential encroachment into RPA from construction activities.	Medium	Minor	Temporary tree protection to BS.5837:2012 to be installed prior to works.	None	None	Retain
T193	Sycamore	C1	Potential encroachment into RPA from construction activities.	Medium	Minor	Temporary tree protection to BS.5837:2012 to be installed prior to works.	None	None	Retain
T194	Sycamore	U	Potential encroachment into RPA from construction activities.	Medium	Minor	Temporary tree protection to BS.5837:2012 to be installed prior to works.	None	None	Retain
G341	Birch (Silver)	B2	New Entrance and access to be constructed to south of westernmost tree. Potential root severance/compaction impacts.	Medium	Moderate	Hard surfacing installation to be of a now dig design. See AIA report as part of Application 16/1904/F	Low	Minor	Retain
G452	Whitebeam	C2	To be removed as part of consented Application 16/00864/REM	N/A	N/A	N/A	N/A	N/A	Remove
T463	Whitebeam	U	Remove as part of proposals 18/00663/F	High	Minor	Replacement planting to compensate	Low	Insignificant	Remove
T464	Hawthorn	C1	To be removed as part of consented Application 16/00864/REM	N/A	N/A	N/A	N/A	N/A	Remove
G465	Whitebeam	C2	Remove as part of proposals 17/00663/F	High	Moderate	Replacement planting to compensate	Low	Insignificant	Partial removal
T468	Whitebeam	C1	Remove as part of proposals 17/00663/F	High	Moderate	Replacement planting to compensate	Low	Insignificant	Remove
G469	Whitebeam	C2	Remove as part of proposals 17/00663/F	High	Moderate	Replacement planting to compensate	Low	Insignificant	Remove



## Arboricultural Impact Schedule

Site: Heyford Trident Roads

Ref:LAS/06

No	Species	Quality	Arboricultural effects (direct and indirect) of proposed design - description	Unadjusted scale of effect	Unadjusted significance of effect (scale effects x quality)	Recommended mitigation	Adjusted scale of effect following mitigation	Adjusted significance of effect (adj .scale effects x quality)	Tree removal required
G507	Pine	C2	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA. Potential direct contract with stem during construction works and potential root severance/soil compaction. Potential service to be removed.	Medium	Minor	Tree Protection fencing to be installed prior to construction to deter direct contact. Footpath construction to be of an above ground no dig design. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Insignificant	Retain
T527	Birch (Silver)	B1	Footpath to be removed and reconstructed within RPA.	Medium	Moderate	Temporary tree protection fencing to deter direct contact. Works to be carried out by hand within RPA and in accordance with arboricultural method statement.	Low	Minor	Retain
G528	Birch (Silver)	B2	Footpath to be removed and reconstructed within RPA.	Medium	Moderate	Temporary tree protection fencing to deter direct contact. Works to be carried out by hand within RPA and in accordance with arboricultural method statement.	Low	Minor	Retain
T530	Birch (Silver)	C1	Potential impacts from construction activities	Medium	Minor	Temporary tree protection fencing to deter direct contact.	Low	Insignificant	Retain
T531	Plum (Purple)	C1	Potential impacts from construction/demolition works. Hard surface removal from within RPA.	Medium	Minor	Temporary tree protection fencing to deter encroachment.. Removal or hard surfacing from RPA to be undertaken by hand in accordance with arboricultural method statement.	Low	Insignificant	Retain
T532	Birch (Silver)	C1	Remove as part of proposals 17/00663/F	High	Moderate	Replacement tree planting	Medium	Minor	Remove
T533	Rowan	C1	To be removed as part of consented Application 16/00864/REM	N/A	N/A	N/A	N/A	N/A	Remove
T534	Birch (Silver)	C1	Potential impacts from construction/demolition works. Hard surface removal from within RPA.	Medium	Minor	Temporary tree protection fencing to deter encroachment.. Removal or hard surfacing from RPA to be undertaken by hand in accordance with arboricultural method statement.	Low	Insignificant	Retain
G539	Maple	B2	Footpath to be removed and replaced adjacent RPA. Potential contact from construction activities.	Medium	Moderate	Temporary tree protection to BS.5837:2012 to be installed prior to works.	Low	Minor	Retain
T575	Maple (Norway)	B1	Hard surfacing/footpath to be removed from southern default RPA. Raised planning bed to be removed from eastern part of RPA as part of roundabout reconfiguration. Potential direct contact from construction activities.	High	Major	Temporary tree protection fencing to BS.5837:2012 to be installed prior to works. Hard surface removal to be carried out by hand. Raised bed to be removed following trial hole exploration to determine root presence. Works within default RPA to be carried out in accordance with an arboricultural method statement and watching brief.	Low	Minor	Retain
T576	Whitebeam	C1	Remove as part of proposals 17/00663/F	High	Moderate	Replacement tree planting	Medium	Minor	Remove
T577	Whitebeam	C1	Footpath to be constructed within RPA. Existing footpath to north to be removed and replaced. Potential foot severance and compaction impacts	High	Moderate	New footpath to be installed using an above ground no dig methodology. Works to be carried out in accordance with arboricultural method statement. Temporary tree protection fencing to deter potential direct contact.	Low	Insignificant	Retain
T579	Birch (Silver)	C1	Footpath to be constructed within RPA. Potential root severance and compaction impacts	High	Moderate	New footpath to be installed using an above ground no dig methodology. Works to be carried out in accordance with arboricultural method statement. Temporary tree protection fencing to deter potential direct contact.	Low	Insignificant	Retain
T580	Birch (Silver)	C1	Potential direct impacts from construction activities.	Medium	Minor	Temporary tree protection fencing to be installed prior to construction.	None	None	Retain
T581	Chestnut (Horse)	C1	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA up to stem. Potential direct contract with stem during construction works and potential root severance/soil compaction.	Medium	Minor	Temporary tree protection fencing to deter direct contact. Works within RPA to be carried out by hand in accordance with arboricultural method statement. Reconstructed footpath to match the width of the existing.	Low	Insignificant	Retain
T590	Beech (Common)	B2	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA up to stem. Potential direct contract with stem during construction works and potential root severance/soil compaction.	High	Major	Tree Protection fencing to be installed prior to construction to deter direct contact. Footpath construction to be of an above ground no dig design. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Minor	Retain
T591	Beech (Common)	B2	Remove as part of proposals 17/00663/F	High	Major	Replacement tree planting	Medium	Moderate	Remove
T594	Chestnut (Horse)	B2	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA up to stem. Potential direct contract with stem during construction works and potential root severance/soil compaction.	High	Major	Tree Protection fencing to be installed prior to construction to deter direct contact. Footpath construction to be of an above ground no dig design. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Minor	Retain
T595	Chestnut (Horse)	B2	Remove as part of proposals 17/00663/F	High	Major	Replacement tree planting	Medium	Moderate	Remove
T597	Whitebeam	C2	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA up to stem. Potential direct contract with stem during construction works and potential root severance/soil compaction.	High	Moderate	Tree Protection fencing to be installed prior to construction to deter direct contact. Footpath construction to be of an above ground no dig design. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Insignificant	Retain
T598	Chestnut (Horse)	C2	Remove as part of proposals 17/00663/F	High	Minor	Replacement tree planting	Medium	Minor	Remove
T599	Whitebeam	U	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA up to stem. Potential direct contract with stem during construction works and potential root severance/soil compaction.	High	Minor	Tree Protection fencing to be installed prior to construction to deter direct contact. Footpath construction to be of an above ground no dig design. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Insignificant	Retain
T600	Whitebeam	C2	Hard surfacing (road and footpath) to be removed and replaced within default RPA.	High	Moderate	Tree Protection fencing to be installed prior to construction to deter direct contact. Recommend reconstructed footpath match the width of the existing. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Insignificant	Retain
T602	Whitebeam	C2	Hard surfacing (road and footpath) to be removed and replaced within default RPA.	High	Moderate	Tree Protection fencing to be installed prior to construction to deter direct contact. Recommend reconstructed footpath match the width of the existing. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Insignificant	Retain

## Arboricultural Impact Schedule

Site: Heyford Trident Roads

Ref:LAS/06

No	Species	Quality	Arboricultural effects (direct and indirect) of proposed design - description	Unadjusted scale of effect	Unadjusted significance of effect (scale effects x quality)	Recommended mitigation	Adjusted scale of effect following mitigation	Adjusted significance of effect (adj .scale effects x quality)	Tree removal required
T603	Whitebeam	C2	Hard surfacing (road and footpath) to be removed and replaced within default RPA.	High	Moderate	Tree Protection fencing to be installed prior to construction to deter direct contact. Recommend reconstructed footpath match the width of the existing. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Insignificant	Retain
T604	Whitebeam	U	Off site tree. Existing hard surfacing to be removed and replaced within RPA	High	Minor	Tree Protection fencing to be installed prior to construction to deter direct contact. Recommend reconstructed footpath match the width of the existing. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Medium	Minor	Retain
T606	Whitebeam	C2	Hard surfacing (road and footpath) to be removed and replaced within default RPA.	High	Moderate	Tree Protection fencing to be installed prior to construction to deter direct contact. Recommend reconstructed footpath match the width of the existing. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Insignificant	Retain
T607	Whitebeam	C2	Hard surfacing (road and footpath) to be removed and replaced within default RPA.	High	Moderate	Tree Protection fencing to be installed prior to construction to deter direct contact. Recommend reconstructed footpath match the width of the existing. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Insignificant	Retain
T608	Whitebeam	C2	Hard surfacing (road and footpath) to be removed and replaced within default RPA.	High	Moderate	Tree Protection fencing to be installed prior to construction to deter direct contact. Recommend reconstructed footpath match the width of the existing. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Insignificant	Retain
T614	Beech (Common)	B1	Set back from main area of construction. No significant impacts envisaged.	None	None	None	None	None	Retain
T615	Beech (Common)	B2	Set back from main area of construction. No significant impacts envisaged.	None	None	None	None	None	Retain
G657	Sycamore, beech	C2	Removal of concrete blocks from RPA and construction of new footpath.	Medium	Minor	Temporary tree protection fencing to BS.5837:2012. Works to be carried out using hand tools in accordance with an Arboricultural Method Statement	Low	Insignificant	Retain
G718	Ash (Common)	B2	Potential impacts from construction activities	Medium	Moderate	Temporary tree protection fencing to BS.5837:2012	Slight	Insignificant	Retain
T719	Ash (Common)	C1	Footpath to be removed and replace within outer RPA.	Medium	Minor	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Insignificant	Retain
T720	Ash (Common)	C1	Potential impacts from construction activities	Medium	Minor	Temporary tree protection fencing to BS.5837:2012	None	None	Retain
T721	Ash (Common)	C1	Potential impacts from construction activities	Medium	Minor	Temporary tree protection fencing to BS.5837:2012	None	None	Retain
T722	Ash (Common)	B2	Footpath to be removed and replace within outer RPA.	Medium	Moderate	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Minor	Retain
T723	Ash (Common)	B2	Potential impacts from construction activities	Low	Minor	Temporary tree protection fencing to BS.5837:2012	None	None	Retain
T724	Ash (Common)	B2	Potential impacts from construction activities	Low	Minor	Temporary tree protection fencing to BS.5837:2012	None	None	Retain
T725	Acacia (False)	C1	Footpath to be removed and replace within outer RPA.	Medium	Minor	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Insignificant	Retain
T726	Acacia (False)	C1	Footpath to be removed and replace within outer RPA.	Medium	Minor	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Insignificant	Retain
T727	Acacia (False)	B1	Footpath to be removed and replace within outer RPA.	Medium	Moderate	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Minor	Retain
T729	Maple (Norway)	B2	Footpath to be removed and replace within outer RPA.	Medium	Moderate	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Minor	Retain
T730	Maple (Norway)	B2	Potential impacts from construction activities	Low	Minor	Temporary tree protection fencing to BS.5837:2012	None	None	Retain
T731	Maple (Norway)	B2	Footpath to be removed and replace within outer RPA.	Medium	Moderate	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Minor	Retain
T732	Maple (Norway)	B2	Potential impacts from construction activities	Low	Minor	Temporary tree protection fencing to BS.5837:2012	None	None	Retain
T733	Maple (Norway)	B2	Potential impacts from construction activities	Low	Minor	Temporary tree protection fencing to BS.5837:2012	None	None	Retain
T1002	Birch (Silver)	C1	Footpath to be removed and replace within outer RPA.	Medium	Minor	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement. New footpath to be of an above ground design.	Low	Insignificant	Retain

## Arboricultural Impact Schedule

Site: Heyford Trident Roads

Ref:LAS/06

No	Species	Quality	Arboricultural effects (direct and indirect) of proposed design - description	Unadjusted scale of effect	Unadjusted significance of effect (scale effects x quality)	Recommended mitigation	Adjusted scale of effect following mitigation	Adjusted significance of effect (adj .scale effects x quality)	Tree removal required
T1003	Elm (English)	U	Footpath to be removed and replace within outer RPA.	Medium	Minor	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Insignificant	Retain
G1091	Sycamore	B2	Footpath to be removed and replace within outer RPA.	Medium	Moderate	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Minor	Retain
T1092	Sycamore	C1	Footpath to be removed and replace within outer RPA.	Medium	Minor	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Insignificant	Retain
G1093	Birch (Silver)	C2	Footpath to be removed and replace within outer RPA.	Medium	Minor	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Insignificant	Retain
T1420	Pine	B1	Footpath to be removed and replace within outer RPA.	Medium	Moderate	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Minor	Retain
T1421	Pine	C1	Potential impacts from construction activities	Low	Insignificant	Temporary tree protection fencing to BS.5837:2012	None	None	Retain
T1422	Pine	C1	Footpath to be removed and replace within outer RPA.	Medium	Minor	Reconstructed footpath to not exceed the width of the existing. Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Insignificant	Retain
T1423	Sycamore	C1	Potential impacts from construction activities	Low	Insignificant	Temporary tree protection fencing to BS.5837:2012	None	None	Retain
T1424	Sycamore	B1	Potential impacts from construction activities	Low	Minor	Temporary tree protection fencing to BS.5837:2012	None	None	Retain
T1425	Pine	C1	Footpath to be removed and replaced encroaching 70mm beyond existing extent	Medium	Minor	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Insignificant	Retain
T1426	Beech	B1	Potential impacts from construction activities	Low	Minor	Temporary tree protection fencing to BS.5837:2014	None	None	Retain
T1427	Pine	C1	Potential impacts from construction activities	Low	Insignificant	Temporary tree protection fencing to BS.5837:2014	None	None	Retain
T1428	Sycamore	C1	Potential impacts from construction activities	Low	Insignificant	Temporary tree protection fencing to BS.5837:2014	None	None	Retain
T1429	Sycamore	C1	Footpath to be removed and replaced encroaching 70mm beyond existing extent	Medium	Minor	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Insignificant	Retain
T1430	Beech	B1	Footpath to be removed and replace within outer RPA.	Medium	Moderate	Reconstructed footpath to not exceed the width of the existing. Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Minor	Retain
T1450	Sycamore	C1	Potential direct impacts from construction and demolition activities.	Medium	Minor	Temporary tree protection fencing to deter potential encroachment.	Low	Insignificant	Retain
T1451	Pine	C1	Potential direct impacts from construction and demolition activities.	Medium	Minor	Temporary tree protection fencing to deter potential encroachment.	Low	Insignificant	Retain
T1452	Pine	C1	Potential direct impacts from construction and demolition activities.	Medium	Minor	Temporary tree protection fencing to deter potential encroachment.	Low	Insignificant	Retain
T1453	Pine	C1	Potential direct impacts from construction and demolition activities.	Medium	Minor	Temporary tree protection fencing to deter potential encroachment.	Low	Insignificant	Retain
T1454	Pine	C1	Potential direct impacts from construction and demolition activities.	Medium	Minor	Temporary tree protection fencing to deter potential encroachment.	Low	Insignificant	Retain
T1455	Pine	C1	Potential direct impacts from construction and demolition activities.	Medium	Minor	Temporary tree protection fencing to deter potential encroachment.	Low	Insignificant	Retain
T1456	Beech	B1	Hard surfacing to be removed from within RPA.	Medium	Moderate	Temporary tree protection fencing to deter potential encroachment. Works to be carried out using hand tools in accordance with Arboricultural Method statement	Low	Minor	Retain

## Arboricultural Impact Schedule

Site: Heyford Trident Roads

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T1457	Beech	B1	Hard surfacing to be removed from within RPA.	Medium	Moderate	Temporary tree protection fencing to deter potential encroachment. Works to be carried out using hand tools in accordance with Arboricultural Method statement	Low	Minor	Retain
T1464	Norway maple	B1	Hard surfacing to be removed from within RPA.	Medium	Moderate	Temporary tree protection fencing to deter potential encroachment. Works to be carried out using hand tools in accordance with Arboricultural Method statement	Low	Minor	Retain
T1481	Horse chestnut	B1	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA up to stem. Potential direct contract with stem during construction works and potential root severance/soil compaction.	High	Major	Tree Protection fencing to be installed prior to construction to deter direct contact. Footpath construction to be of an above ground no dig design. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Minor	Retain
T1482	Sycamore	C1	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA up to stem. Potential direct contract with stem during construction works and potential root severance/soil compaction.	High	Moderate	Tree Protection fencing to be installed prior to construction to deter direct contact. Footpath construction to be of an above ground no dig design. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Insignificant	Retain
T1483	Beech	B1	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA up to stem. Potential direct contract with stem during construction works and potential root severance/soil compaction.	High	Major	Tree Protection fencing to be installed prior to construction to deter direct contact. Footpath construction to be of an above ground no dig design. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Minor	Retain
T1484	Horse chestnut	B1	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA up to stem. Potential direct contract with stem during construction works and potential root severance/soil compaction.	High	Major	Tree Protection fencing to be installed prior to construction to deter direct contact. Footpath construction to be of an above ground no dig design. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Minor	Retain
T1485	Horse chestnut	B1	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA up to stem. Potential direct contract with stem during construction works and potential root severance/soil compaction.	High	Major	Tree Protection fencing to be installed prior to construction to deter direct contact. Footpath construction to be of an above ground no dig design. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Minor	Retain
T1486	Beech	B1	Roadway hard surfacing to be removed and replaced. Footpath to be constructed within RPA up to stem. Potential direct contract with stem during construction works and potential root severance/soil compaction.	High	Major	Tree Protection fencing to be installed prior to construction to deter direct contact. Footpath construction to be of an above ground no dig design. Works to be carried out in accordance with an arboricultural method statement and under a watching brief.	Low	Minor	Retain
T1527	Purple plum	C1	Remove as part of proposals 17/00663/F	High	Moderate	Replacement planting to compensate	Medium	Minor	Remove
T1528	Sycamore	C2	Hard surfacing to be removed from within RPA.	Medium	Minor	Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Insignificant	Retain
T1529	Silver birch	C1	Footpath to be removed and replace within outer RPA.	Medium	Minor	Reconstructed footpath to not exceed the width of the existing hard surfacing. Temporary tree protection fencing to BS.5837:2012 to deter potential direct contact. Hard surface removal to be undertaken using hand tools in accordance with arboricultural method statement.	Low	Insignificant	Retain