

# Arboricultural Impact Assessment

Land at:  
Bilsham road  
Yapton  
West Sussex

30<sup>th</sup> November 2017



PJC ref: 4699/17-02 R2

This report has been prepared by  
PJC Consultancy Ltd  
on behalf of  
Gleeson Strategic Land

|                        |                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| <b>Checked<br/>by</b>  | <b>Peter Davies FdSc Arboriculture M.Arbor.A</b><br>Peter has a Foundation Degree in Arboriculture and is a professional member of the Arboricultural Association. He has ten years experience in the arboricultural industry, originally working as a groundsman and feller, and progressing into consultancy. He is a Lantra accredited professional tree inspector. |

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## 1 SUMMARY

1.1 This report should be read in conjunction with arboricultural survey ref. PJC/3867/15-01 rev 2.

1.2 **Site location:** The site is situated south of Yapton and adjoins the residential area to the south west of the town. The surrounding land use is comprised primarily of farm land and residential housing. The location of the site within its environs is shown in figure 1.



Figure 1: Location of Site and Environs

1.3 **Proposal:** A proposal has been outlined to develop the site for housing. This AIA accompanies an illustrative master plan layout for an outline planning application. Final drawings at reserved matters stage should include a tree protection plan, which should accompany an arboricultural method statement.

1.4 **Tree removals:** No tree removals other than those categorised as U, (so are unfit for retention) are proposed as part of this layout. The illustrative master plan (ref: 1244\_South West Yapton Masterplan 180717) outlines a number of trees planted as part of landscaping proposals.

1.5 **Access facilitation pruning:** Based on the information available at the time of this report, no access facilitation pruning is required to permit the proposal. This should be re-assessed at reserved matters stage when the proposed layout is fixed.

1.6 **Works within root protection areas:** All new dwellings are located to avoid root protection areas, (RPAs) of retained trees. Proposed new access adjacent T17 passes in close proximity yet outside of the RPA. Protection measures will likely be necessary in the form of temporary ground protection at construction stage. Further North a section of footpath is located in the capped RPA. The area of new surface accounts for approx. 6% for the total RPA and is located at its periphery.

## 2 INTRODUCTION

2.1 **Instruction:** PJC Consultancy has been instructed by Gleeson Strategic Land to provide an arboricultural impact assessment for proposed construction works at Bilsham Rd, Yapton.

2.2 **Brief:** PJC Consultancy has been commissioned to compile an arboricultural impact assessment written in accordance with guidelines set out in BS5837: 2012 '*Trees in relation to design, demolition and construction – Recommendations*'.

2.3 **Scope of this report:** This report is concerned with all significant trees located within the site boundary and those located around the curtilage of the site with the potential to impact or be impacted by the proposed construction works.

2.4 **Contents of report:** This report has been produced to provide a schedule trees to be removed or pruned for the proposed development, as well as to evaluate the implications of the development on retained trees. The report includes the following:

- A schedule of trees to be retained/removed.
- An assessment of the impact construction works will have on retained trees and mitigation measures to be implemented.
- An assessment of post development pressures on trees.
- Recommendations for post development arboricultural management.
- Tree Constraints Plan and Tree Retention Plan.

2.5 **Documents and information provided:** The following documents were provided by the client to produce this report:

- Topographical survey ref: 7Q0-Land At Bilsham Road, Yapton
- 1244G\_Bilsham Road Yapton\_Application drawings\_301117

### 3 INITIAL TREE SURVEY SUMMARY

3.1 **Site visit:** A site visit was carried out on 25<sup>th</sup> November 2015 and again on the 5<sup>th</sup> June 2017. The weather conditions during both site visits were dry and bright. The visibility was adequate to complete a visual tree assessment to BS5837.

3.2 **Survey methodology:** Explanations for the measurements and information collected for each tree are described in arboricultural report ref. PJC/3867/15-01 Rev2

3.3 **Site layout:** The site is comprised of several arable fields bordering the town of Yapton. The fields are separated by ditches of which are lined on both sides by small trees and bramble. Amongst these areas are located some mature trees, which have been highlighted as part of this report. Although it is assumed that the redline boundary runs along the centre of ditches, trees included in this report may be located on either side and have been recorded as their root protection areas may extend beyond this theoretical boundary.

3.4 **Statutory tree protection:** Arun District planning authority was contacted by telephone on 26<sup>th</sup> November 2015 to check for Tree Preservation Orders and whether the site was within a conservation area. It was reported that no TPOs exist on site and the site is not within a conservation area. Persons proposing to undertake tree works must still check the status of these trees with the local authority, and gain necessary consent if required, before works are undertaken.

3.5 Financial penalties and/or criminal proceedings can result if tree works are carried out on a protected tree without consent. The entirety of the tree is protected, both above and below ground.

3.6 **Tree categorisation summary:** A total, of 20 trees were recorded, 2 trees categorised as A, 6 categorised as B and 9 categorised as C. The predicted contribution of 3 trees is less than ten years, leading to their categorisation as U

## 4 ARBORICULTURAL IMPACT ASSESSMENT

**4.1 Tree removals:** All category A, B and C trees are shown to be retained on the current layout. Trees will be protected during the proposed development to maintain standards of local visual amenity. Three trees require removal based on their condition and not as a result of the proposed development. These are T5, T6 and T13, all categorised U.

**4.2 Access facilitation pruning:** Based on the information currently available, no access facilitation pruning will be required to facilitate the proposed development. Any requirements for access facilitation pruning that cannot be predicted at this stage in the design process (e.g. for contractor compound or movement of large plant) should be discussed at the pre-commencement meeting with the project arboriculturalist and agreed with the local authority arboricultural officer.

**4.3 Works within root protection areas:** The southern road link to the adjacent proposed development adjacent T17 passes in close proximity yet outside of the RPA. Protection measures will likely be necessary in the form of temporary ground protection at construction stage. Fencing and proposed rear gardens of plots 174-177 are partially within the capped RPA of T8. The tree is to the north of gardens and crown measurements indicate the gardens are not beneath the canopy. Further North a section of footpath is located in the capped RPA. The area of new surface accounts for approx. 6% for the total RPA and is located at its periphery. Arboricultural supervision to install a conventional surface in this location should not impact the long-term viability of this tree so long as protection methodologies are outlined at a more detailed stage.

**4.4 Seasonal nuisance:** Few trees exist at the site; those that do are positioned along field boundaries to the west. Overall the current layout appears to allow sufficient space for mature trees from proposed dwellings to minimise or eliminate the possibility of seasonal nuisance.

**4.5 Services:** Details of the routing of services for the proposed development are not currently available. Once details of the routing of new services become available, prior to commencement, these shall be reviewed by the project arboriculturalist. The arboriculturalist shall then confirm to the local authority arboricultural officer either that no works will be carried out within root protection areas, or provide details of the methodology required to ensure the works are carried out in accordance with NJUG10 '*Guidelines for the planning, installation and maintenance of utilities in proximity to trees*' and BS5837: 2012.

**4.6 Post development tree pressures:** Overall the layout appears to take into account the size and position of trees in relation to the proposed dwellings. No individual properties appear to be positioned in such proximity that unreasonable pressure to prune is to occur. Proposed dwellings adjacent to T19 and T20 are in moderate proximity. The final layout may include for the repositioning of this dwelling to minimise likelihood of future pressures to prune trees. It is not thought that this proximity represents an unreasonable pressure on usable garden space given the orientation of the site.

**4.7 Post development tree management summary:** T8 is a large Veteran oak with a significant girth and numerous other aspects associated with large or veteran trees. These features make it a valuable landscape tree as well as being valuable habitat. The current proposal shows the tree as retained and allows good spacing between proposed structures. It is not clear if this tree is located in a private garden or public open space. The final layout should seek to not include this tree within the ownership of a single property in order to reduce the likelihood of pressure to remove the tree. It is recommended an assessment of the tree should be carried out, post development, to ascertain appropriate extent of deadwood removal in order to allow the tree to be retained minimising risk to users of the area.

## 5 CONCLUSIONS

5.1 Following outline planning permission the final layout will require assessment to check for any altered or additional impact resented by development. This will then allow the production of the Arboricultural Method Statement for use as part of a full planning application.

5.2 The proposed site layout involves construction of a small quantity of surfacing in the RPA of T17. Final layouts should seek to remove this encroachment entirely if possible even though it is unlikely to represent a significant impact to the trees potential for future retention.

## 6 OTHER CONSIDERATIONS

6.1 Trees should be checked for protected species before works are undertaken. It is against the law to disturb bats or their roosts under the Conservation of Habitat and Species Regulations. Nesting birds are protected by the Wildlife and Countryside Act. If protected species are discovered, Natural England should be contacted for advice.

6.2 The tree works contractors should carry out all tree works to BS3998: 2010 '*Tree works – recommendations*', as modified by research that is more recent. They should also carry relevant, adequate and up to date insurance.

6.3 It is also recommended that all tree works be carried out by an Arboricultural Association approved contractor. Approved contractors are expected to work to industry best standards, and the Arboricultural Association website contains contact details and information on engaging a suitable contractor.

6.4 The trees at this site were assessed for their condition and safety in relation to the average range of weather conditions that the region experiences. Any weather events that exceed the average norm cannot be predicted, and so their effects are not considered within this report.

6.5 The views and opinions contained within this report are entirely those of the author.

## Contact details

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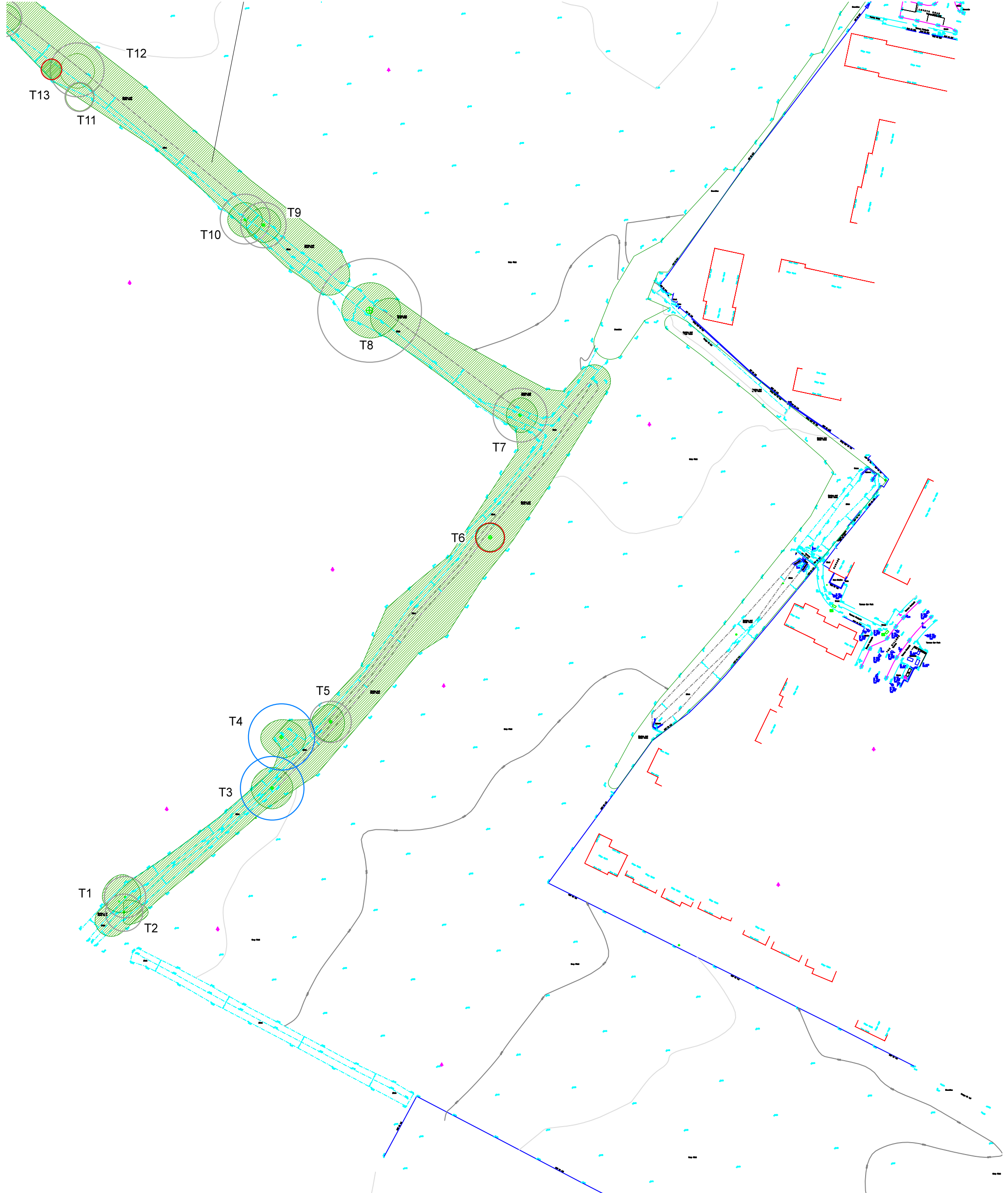


Author: Owen Allpress

Date: 4 December 2017

## APPENDIX 1

### Tree Constraints Plan and Tree Retention Plan



|                                                                                        |                |                      |
|----------------------------------------------------------------------------------------|----------------|----------------------|
| Drawing no: PJC/3867/15/A                                                              | Rev: 01        | Sheet number: 1 of 2 |
| Client and site:<br>Gleeson Homes<br>Land at:<br>Bilsham Road<br>Yapton<br>West Sussex |                |                      |
| Drawing title: Tree Constraints Plan                                                   |                |                      |
| Date drawn: 16/11/2017                                                                 |                |                      |
| Scale: 1:1000 at A3                                                                    |                |                      |
| Drawn by: OA                                                                           | Checked by: NB |                      |

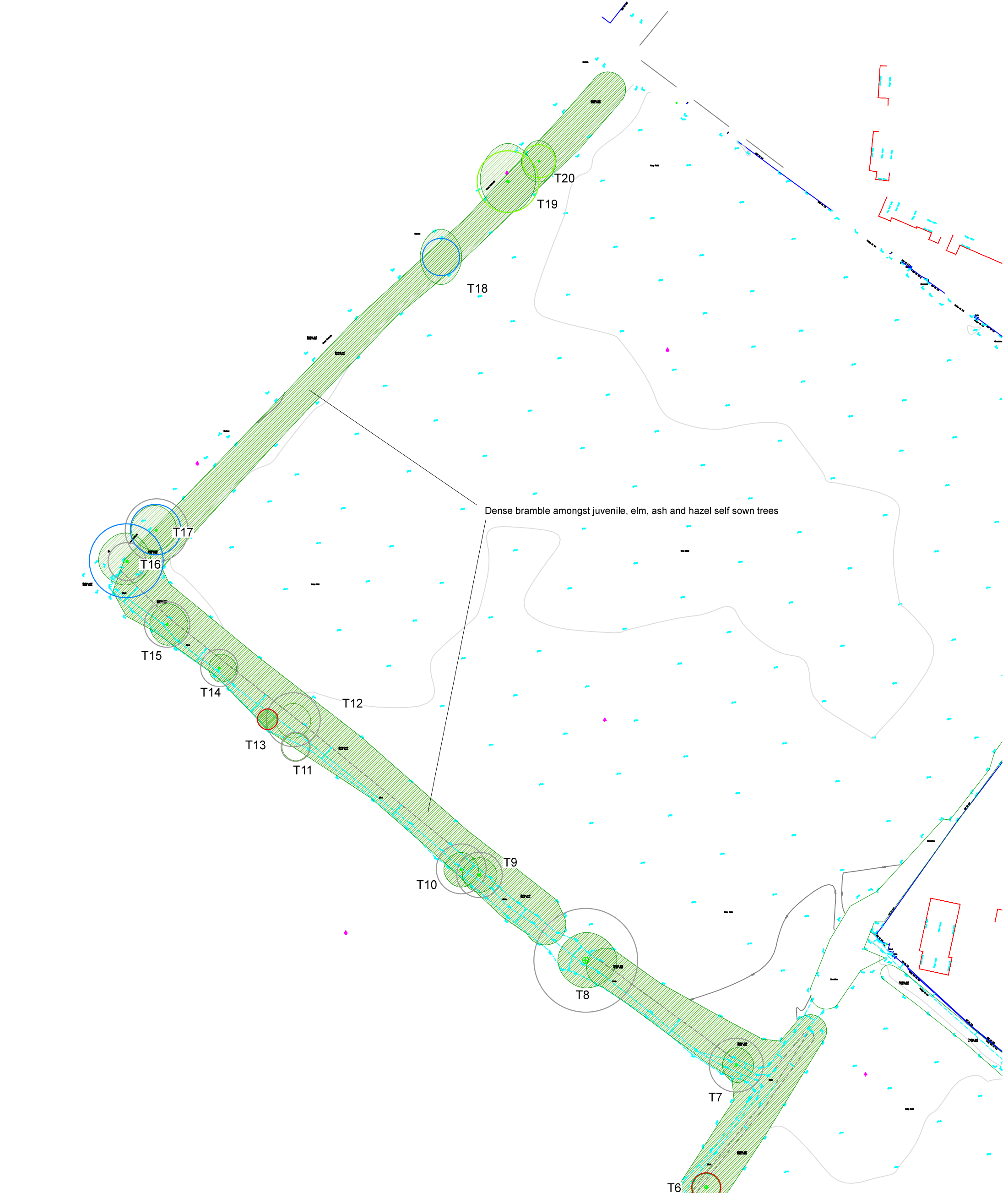
Key:

-  RPA for CAT B Tree\*
-  RPA for CAT C Tree\*
-  RPA for CAT U Tree\*
-  Tree canopy

**\* Tree categorised in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.**

Appendix 2, (Tree Survey Schedule) contained within the arboricultural report ref. no. PJC/3867/15 contains further information for each tree.

*This drawing should be viewed in colour.*



|                                                                                        |                |                      |
|----------------------------------------------------------------------------------------|----------------|----------------------|
| Drawing no: PJC/3867/15/A                                                              | Rev: 01        | Sheet number: 2 of 2 |
| Client and site:<br>Gleeson Homes<br>Land at:<br>Bilsham Road<br>Yapton<br>West Sussex |                |                      |
| Drawing title: Tree Constraints Plan                                                   |                |                      |
| Date drawn: 16/11/2017                                                                 |                |                      |
| Scale: 1:1000 at A3                                                                    |                |                      |
| Drawn by: OA                                                                           | Checked by: NB |                      |

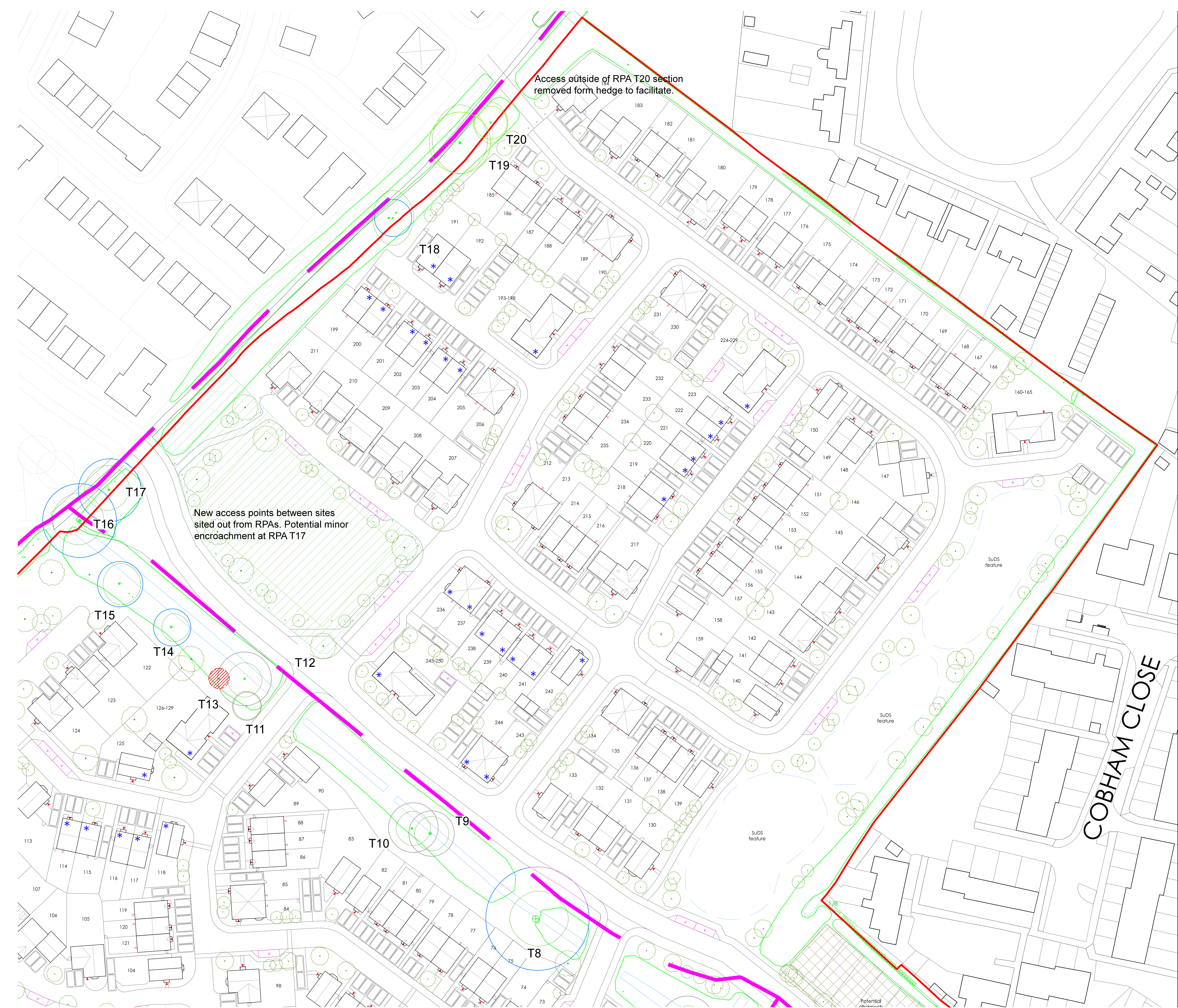
Key:

-  RPA for CAT B Tree\*
-  RPA for CAT C Tree\*
-  RPA for CAT U Tree\*
-  Tree canopy

**\* Tree categorised in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.**

Appendix 2, (Tree Survey Schedule) contained within the arboricultural report ref. no. PJC/3867/1 contains further information for each tree.

*This drawing should be viewed in colour.*



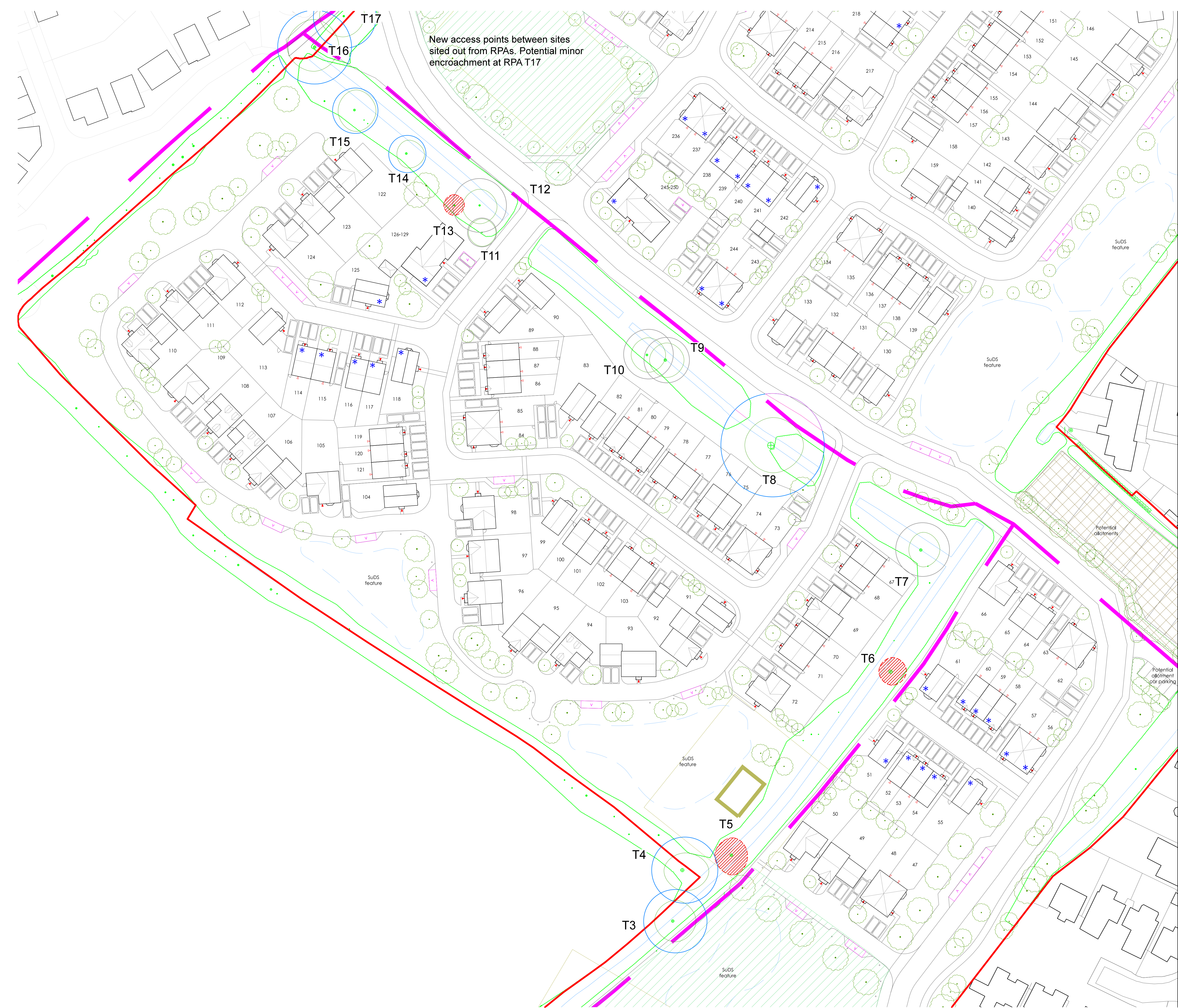
- Key.
- RPA for CAT A\* tree to be retained
  - RPA for CAT B\* tree to be retained
  - RPA for CAT C\* tree to be retained
  - RPA for CAT U\* tree to be retained
  - Canopy of tree to be retained
  - Canopy of CAT U\* tree to be removed

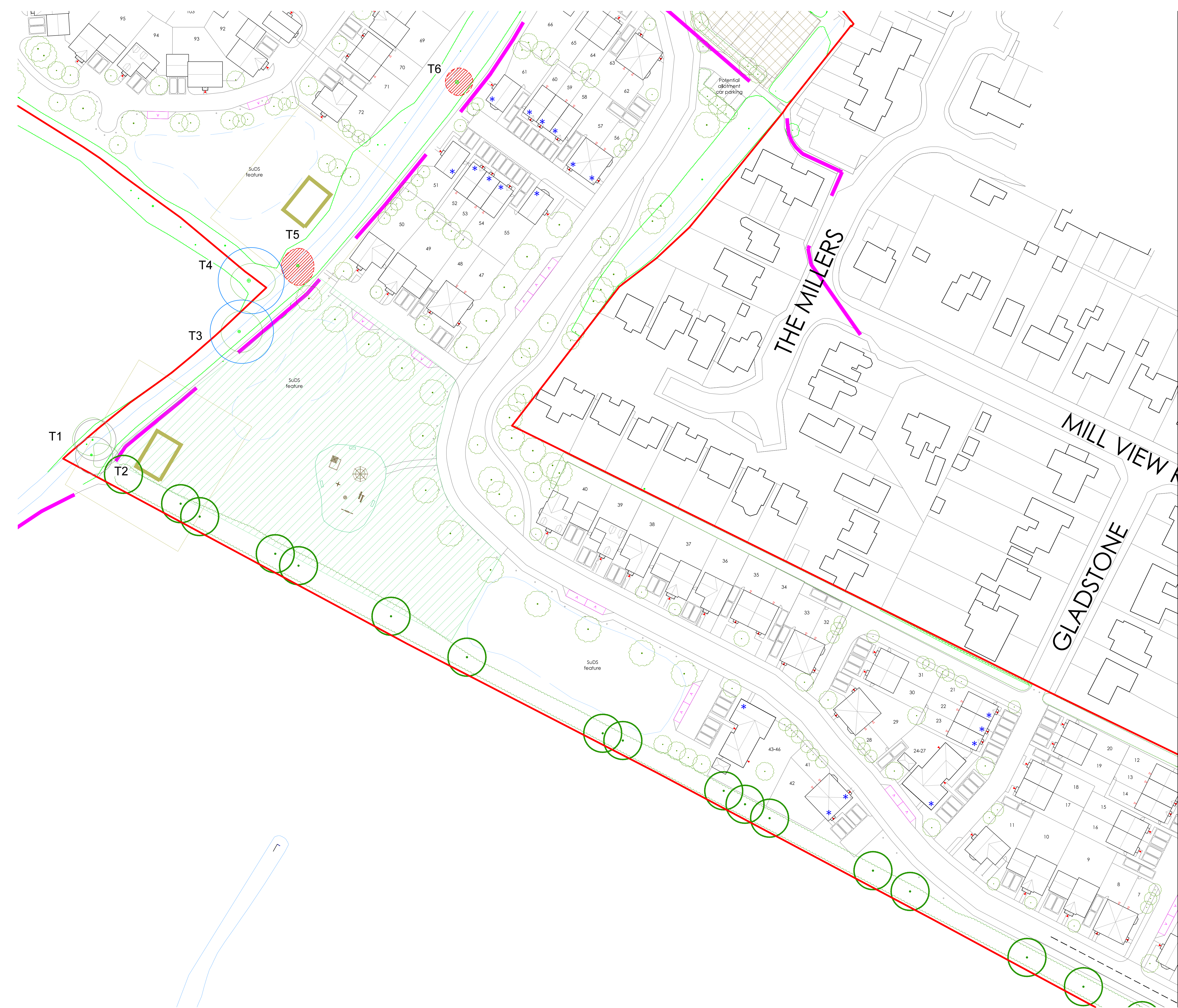
\* Tree categorised in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.

Appendix 2, (Tree Survey Schedule) contained within the arboricultural report PJC/4699/17-02 contains further information for each tree.

This drawing should be viewed in colour.

|                                                                                       |                |                      |
|---------------------------------------------------------------------------------------|----------------|----------------------|
| Drawing no: PJC/4699/17/A                                                             | Rev: 03        | Sheet number: 1 of 3 |
| Client and site:<br>Gleeson Homes<br>Land at:<br>Bisham Road<br>Yapton<br>West Sussex |                |                      |
| Drawing title: Tree Retention Plan                                                    |                |                      |
| Date drawn: 04/12/2017                                                                |                |                      |
| Scale: 1:500 at A1                                                                    |                |                      |
| Drawn by: OA                                                                          | Checked by: NB |                      |





- Key.
- RPA for CAT A\* tree to be retained
  - RPA for CAT B\* tree to be retained
  - RPA for CAT C\* tree to be retained
  - RPA for CAT U\* tree to be retained
  - Canopy of tree to be retained
  - Canopy of CAT U\* tree to be removed

\* Tree categorised in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.

Appendix 2, (Tree Survey Schedule) contained within the arboricultural report PJC/4699/17-02 contains further information for each tree.

This drawing should be viewed in colour.

Drawing no: PJC/4699/17/A Rev: 03 Sheet number: 3 of 3

Client and site:  
Gleeson Homes  
Land at:  
Bisham Road  
Yapton  
West Sussex

Drawing title: Tree Retention Plan

Date drawn: 04/12/2017

Scale: 1:500 at A1

Drawn by: OA Checked by: NB



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## APPENDIX 2

### Tree Survey Schedule

## Tree Survey Schedule

|  |                                          |            |                    | Client: Gleeson Homes<br>Site: Land adjacent Bilsham Road, Yapton<br>Survey date: 25/11/15<br>Surveyor: O.Allpress |                     |           |                         |                      |                                                                                             |                                                                       | T: Individual tree or shrub<br>G: Group of 2 or more trees<br>H: Hedgerow<br>W: Woodland block |                           |                            |
|-----------------------------------------------------------------------------------|------------------------------------------|------------|--------------------|--------------------------------------------------------------------------------------------------------------------|---------------------|-----------|-------------------------|----------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------|----------------------------|
| Tree ref. no.                                                                     | Species                                  | Height (m) | Stem diameter (mm) | Branch spread (m)                                                                                                  | Crown clearance (m) | Age class | Physiological condition | Structural condition | Comments                                                                                    | Management recommendation                                             | Category grading                                                                               | Root Protection Area (m2) | Root Protection Radius (m) |
| T1                                                                                | Ash Group, ( <i>Fraxinus excelsior</i> ) | 7          | 500 est            | N: 5<br>E: 5<br>S: 4<br>W: 6                                                                                       | 1                   | Mature    | Good                    | Fair                 | Field boundary trees in varied condition.                                                   | None                                                                  | C2                                                                                             | 113.3                     | 6.0                        |
| T2                                                                                | Oak, ( <i>Quercus robur</i> )            | 5          | 450                | N: 3<br>E: 7<br>S: 3<br>W: 0                                                                                       | 1                   | Mature    | Good                    | Good                 | Pronounced lean into field.                                                                 | None                                                                  | C2                                                                                             | 91.7                      | 5.4                        |
| T3                                                                                | Oak, ( <i>Quercus robur</i> )            | 7          | 770 est            | N: 6<br>E: 6<br>S: 6<br>W: 6                                                                                       | 2                   | Mature    | Good                    | Good                 | Ivy inhibits inspection of stem and crown.                                                  | None                                                                  | B2                                                                                             | 268.6                     | 9.2                        |
| T4                                                                                | Oak, ( <i>Quercus robur</i> )            | 6          | 800 est            | N: 5<br>E: 7<br>S: 6<br>W: 6                                                                                       | 3                   | Mature    | Good                    | Good                 | Deadwood, ivy inhibits inspection of crown.                                                 | None                                                                  | B2                                                                                             | 289.9                     | 9.6                        |
| T5                                                                                | Ash, ( <i>Fraxinus excelsior</i> )       | 6          | 500 est            | N: 5<br>E: 4<br>S: 6<br>W: 6                                                                                       | 3                   | Mature    | Fair                    | Fair                 | Deadwood and cavities in crown of remaining stem, previous adjacent stem failed into ditch. | Remove tree given increased public access as a result of development. | U                                                                                              | 113.3                     | 6.0                        |
| T6                                                                                | Field maple, ( <i>Acer campestre</i> )   | 5          | 350 est            | N: 4<br>E: 4<br>S: 4<br>W: 4                                                                                       | 1                   | Mature    | Poor                    | Poor                 | Basal decay evident.                                                                        | Remove tree given increased public access as a result of development. | U                                                                                              | 55.5                      | 4.2                        |

## Tree Survey Schedule

|  |                                    |            |                    | Client: Gleeson Homes<br>Site: Land adjacent Bilsham Road, Yapton<br>Survey date: 25/11/15<br>Surveyor: O.Allpress |                     |              |                         |                      |                                                        |                           | T: Individual tree or shrub<br>G: Group of 2 or more trees<br>H: Hedgerow<br>W: Woodland block |                           |                            |
|-----------------------------------------------------------------------------------|------------------------------------|------------|--------------------|--------------------------------------------------------------------------------------------------------------------|---------------------|--------------|-------------------------|----------------------|--------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------|---------------------------|----------------------------|
| Tree ref. no.                                                                     | Species                            | Height (m) | Stem diameter (mm) | Branch spread (m)                                                                                                  | Crown clearance (m) | Age class    | Physiological condition | Structural condition | Comments                                               | Management recommendation | Category grading                                                                               | Root Protection Area (m2) | Root Protection Radius (m) |
| T7                                                                                | Oak, ( <i>Quercus robur</i> )      | 5          | 650 est            | N: 5<br>E: 5<br>S: 5<br>W: 4                                                                                       | 2                   | Mature       | Fair                    | Fair                 | Field boundary tree showing signs of coastal exposure. | None                      | C2                                                                                             | 191.4                     | 7.8                        |
| T8                                                                                | Oak, ( <i>Quercus robur</i> )      | 6          | > 1500 est         | N: 8<br>E: 9<br>S: 8<br>W: 8                                                                                       | 3                   | Veteran tree | Fair                    | Poor                 | Veteran tree of considerable size and ecological value | Retain as habitat feature | B3                                                                                             | 707.8                     | 15.0 Capped                |
| T9                                                                                | Oak, ( <i>Quercus robur</i> )      | 6          | 550 est            | N: 5<br>E: 5<br>S: 5<br>W: 5                                                                                       | 2                   | Mature       | Fair                    | Good                 | None                                                   | None                      | C2                                                                                             | 137.0                     | 6.6                        |
| T10                                                                               | Oak, ( <i>Quercus robur</i> )      | 5          | 600 est            | N: 5<br>E: 5<br>S: 5<br>W: 5                                                                                       | 2                   | Mature       | Fair                    | Good                 | None                                                   | None                      | C2                                                                                             | 163.1                     | 7.2                        |
| T11                                                                               | Willow, ( <i>Salix spp</i> )       | 5          | 350 est            | N: 4<br>E: 4<br>S: 4<br>W: 4                                                                                       | 2                   | Mature       | Fair                    | Fair                 | Deadwood present in crown, Signs of coastal exposure.  | None                      | C2                                                                                             | 55.5                      | 4.2                        |
| T12                                                                               | Ash, ( <i>Fraxinus excelsior</i> ) | 6          | 650 est            | N: 5<br>E: 5<br>S: 5<br>W: 5                                                                                       | 1                   | Mature       | Fair                    | Fair                 | Stem cavity at 4m, ivy inhibits inspection of crown.   | None                      | C2                                                                                             | 191.4                     | 7.8                        |

## Tree Survey Schedule

|  |                                        |            |                    | Client: Gleeson Homes<br>Site: Land adjacent Bilsham Road, Yapton<br>Survey date: 25/11/15<br>Surveyor: O.Allpress |                     |           |                         |                      |                                                                   |                                                                       | T: Individual tree or shrub<br>G: Group of 2 or more trees<br>H: Hedgerow<br>W: Woodland block |                           |                            |
|-----------------------------------------------------------------------------------|----------------------------------------|------------|--------------------|--------------------------------------------------------------------------------------------------------------------|---------------------|-----------|-------------------------|----------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------|----------------------------|
| Tree ref. no.                                                                     | Species                                | Height (m) | Stem diameter (mm) | Branch spread (m)                                                                                                  | Crown clearance (m) | Age class | Physiological condition | Structural condition | Comments                                                          | Management recommendation                                             | Category grading                                                                               | Root Protection Area (m2) | Root Protection Radius (m) |
| T13                                                                               | Dead tree                              | 3.5        | 400 est            | N: 3<br>E: 3<br>S: 3<br>W: 3                                                                                       | 0                   | Dead      | Dead                    | Poor                 | None                                                              | Remove tree given increased public access as a result of development. | U                                                                                              | 72.5                      | 4.8                        |
| T14                                                                               | Oak, ( <i>Quercus robur</i> )          | 4.5        | 450 est            | N: 4<br>E: 5<br>S: 4<br>W: 3                                                                                       | 2                   | Mature    | Fair                    | Good                 | None                                                              | None                                                                  | C2                                                                                             | 91.7                      | 5.4                        |
| T15                                                                               | Oak, ( <i>Quercus robur</i> )          | 4          | 550 est            | N: 6<br>E: 6<br>S: 6<br>W: 5                                                                                       | 2                   | Mature    | Good                    | Fair                 | Numerous scars on main stem.                                      | None                                                                  | C2                                                                                             | 137.0                     | 6.6                        |
| T16                                                                               | Oak, ( <i>Quercus robur</i> )          | 13         | 890                | N: 8<br>E: 7<br>S: 7<br>W: 8                                                                                       | 3                   | Mature    | Good                    | Good                 | Ivy inhibits inspection of stem and crown.                        | None                                                                  | B2                                                                                             | 358.8                     | 10.7                       |
| T17                                                                               | Ash, ( <i>Fraxinus excelsior</i> )     | 13         | 610 ms est         | N: 7<br>E: 6<br>S: 6<br>W: 7                                                                                       | 4                   | Mature    | Fair                    | Obsc                 | Deadwood present in crown, Signs of coastal exposure & Limb loss. | None                                                                  | B2                                                                                             | 168.6                     | 7.3                        |
| T18                                                                               | Field maple, ( <i>Acer campestre</i> ) | 11         | 450 est            | N: 8<br>E: 6<br>S: 8<br>W: 6                                                                                       | 1                   | Mature    | Fair                    | Obsc                 | Ivy inhibits inspection of stem and crown.                        | None                                                                  | B1                                                                                             | 91.7                      | 5.4                        |

## Tree Survey Schedule

|  |                               |            |                    | Client: Gleeson Homes<br>Site: Land adjacent Bilsham Road, Yapton<br>Survey date: 25/11/15<br>Surveyor: O.Allpress |                     |           |                         |                      |                                                                     |                           | T: Individual tree or shrub<br>G: Group of 2 or more trees<br>H: Hedgerow<br>W: Woodland block |                           |                            |
|-----------------------------------------------------------------------------------|-------------------------------|------------|--------------------|--------------------------------------------------------------------------------------------------------------------|---------------------|-----------|-------------------------|----------------------|---------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------|---------------------------|----------------------------|
| Tree ref. no.                                                                     | Species                       | Height (m) | Stem diameter (mm) | Branch spread (m)                                                                                                  | Crown clearance (m) | Age class | Physiological condition | Structural condition | Comments                                                            | Management recommendation | Category grading                                                                               | Root Protection Area (m2) | Root Protection Radius (m) |
| T19                                                                               | Oak, ( <i>Quercus robur</i> ) | 12         | 740<br>est         | N: 11<br>E: 8<br>S: 9<br>W: 8                                                                                      | 4                   | Mature    | Good                    | Good                 | Ivy inhibits inspection of stem and crown.                          | None                      | A2                                                                                             | 248.1                     | 8.9                        |
| T20                                                                               | Oak, ( <i>Quercus robur</i> ) | 11         | 400<br>est         | N: 6<br>E: 5<br>S: 6<br>W: 5                                                                                       | 3                   | Mature    | Good                    | Good                 | Field boundary tree suppressed form. Grown as shared crown with T19 | None                      | A2                                                                                             | 72.5                      | 4.8                        |