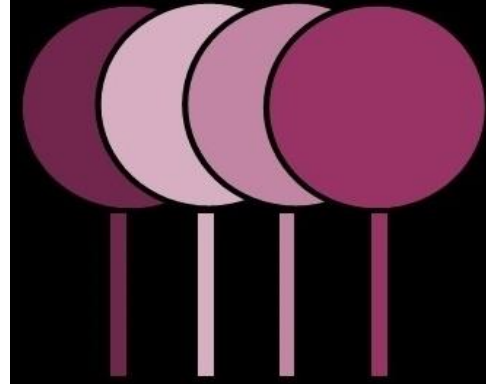




Nicholas Jones Consultants Limited

Independent Professional Arboricultural Consultancy

Arboricultural Method Statement

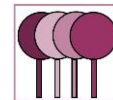
162 Stakes Hill Road
Waterlooville
Hampshire
PO7 7BS

Prepared by Nicholas Jones BSc. (Hons). MSc. M Arbor A

On behalf of M A Wright Ltd

Date: 13th June 2022

Ref: NJC1019



Executive Summary

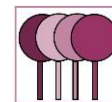
Nicholas Jones Consultants Limited were commissioned by M A Wright Ltd to prepare an Arboricultural Method Statement to advise on the working practices and tree protection measures to be implemented during the construction of the approved development; located at 162 Stakes Hill Road, Waterlooville, Hampshire, PO7 7BS.

The approved development allows the sub-division of existing house to form 1No. 2bed and 2No. 1bed apartments and erection of a two-storey side extension to form 2No. 2bed apartments with provision of car and cycle parking and bin storage.

This Arboricultural Method Statement details the means of tree protection and any constraints posed on the implementation and phasing of work to facilitate the completion of the approved development.

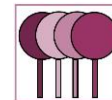
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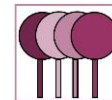
1. Introduction

1.1 Formal details – My name is Nicholas Jones I am the Principal Arboricultural Consultant for Nicholas Jones Consultants Limited. I have 32 years' experience in the arboricultural industry with the past 22 years acting as a consultant; I hold a BSc (Hons) in Arboriculture and an MSc in Arboriculture and Urban Forestry awarded by the University of Central Lancashire. I am a Professional Member of both the Arboricultural Association and the Consulting Arborist Society and a Lantra accredited Professional Tree Inspector, giving advice to clients on a wide range of arboricultural and horticultural issues.

1.2 This Arboricultural Method Statement has been commissioned by M A Wright Ltd in order to seek discharge of conditions 4&5 attached to appeal decision APP/X1735/W/21/3272259. Specifically:

“4. No development hereby permitted, including demolition, construction or groundwork shall commence until tree protection measures. Including fencing and ground protection as shown on an arboricultural Method Statement and Tree Protection Plan and as agreed by the Council’s Arboricultural Officer have been installed in accordance with the agreed details.

The protection measures shall thereafter be retained throughout the construction period for the development and the development shall be carried out strictly in accordance with the agreed details. Within the fenced area(s), there shall be no excavations, storage of materials or machinery, parking of vehicles or fires.



5. No development hereby permitted shall commence until the following details have been submitted to and approved in writing by the Local Planning Authority: (i) Details of the proposed utilities and services on the land with a separate method statement detailing how these works will be undertaken without detriment to the protected trees; and (ii) A staged workplan for all operations requiring Arboricultural supervision and sign off to ensure a workplan in relation to trees is achieved.

1.3 This Arboricultural Method Statement should be read with reference to the Tree Protection Plan (Drg No. NJC1019_01_130622) **Appendix 1**.

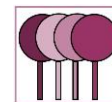
1.4 This Method Statement is based in part on details prepared by Bernie Harverson Arboricultural Consultant and submitted in support of the initial application and subsequent appeal. For ease of reference the tree numbers previously allocated have been retained.

1.5 The following technical references are made in this report (Table 1):

Originator	Title/Reference
British Standards Institute	5837:2012 Trees in relation to design, demolition and construction – Recommendations
British Standards Institute	3998:2010 Recommendations for Tree Works
British Standards Institute	3882:2007 Specification for topsoil and recommendations for use.

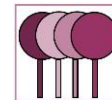
Table 1

1.6 The following abbreviations may be used throughout this report (Table 2):



Terminology	Abbreviation
Tree Preservation Order	TPO
Arboricultural Method Statement	AMS
British Standard 5837:2012 – Trees in relation to design, demolition and construction – Recommendations	BS5837
Tree Protection Plan	TPP
Root Protection Area	RPA
Construction Exclusion Zone	CEZ
Precautionary Area	PA
Tree Protection Fencing	TPF
Ground Protection Measures	GPM
Cellular Confinement System	CCS
Local Planning Authority	LPA

Table 2



2. Arboricultural Method Statement

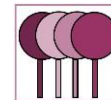
2.1 The principal purpose of an Arboricultural Method Statement is to ensure the preservation of retained trees through setting out appropriate working practices, construction techniques and tree protection measures that will be adopted when construction work is undertaken.

2.2 Responsibilities

- 2.2.1 It is the responsibility of the main contractor to appoint a suitably qualified project arborist prior to the commencement of works.
- 2.2.2 It is the responsibility of the main contractor to ensure that the planning conditions attached to the planning consent are adhered to at all times and that a monitoring regime with regard to tree protection on site is adopted and maintained.
- 2.2.3 The main contractor will ensure that the build programme is appropriate to ensure that no damage occurs to the retained trees. All protective fencing and shall remain in place until all construction work has been completed unless otherwise agreed by the project arborist.
- 2.2.4 The main contractor will be responsible for ensuring that sub-contractors do not carry out any process or operation that is likely to adversely impact on any retained trees.
- 2.2.5 The Local Authority Arborist shall have free access to the site and pass any observations and recommendations directly to the project arborist.

2.3 Contact details

- 2.3.1 Table 3 contains the contact details of the key parties involved in ensuring this AMS is adhered to.



Position	Name	Company	E-mail	Telephone Number
Main Contractor	Mark Wright	M A Wright Ltd	mawrightltd@hotmail.com	07850 399842
Project Arborist	Nick Jones	Nicholas Jones Consultants Limited	info@nicholasjonesconsultants.co.uk	07377 393897
LPA Arborist	TBC	TBC	TBC	TBC

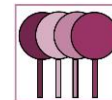
Table 3

2.4 The following Arboricultural Method Statement includes reference to a Tree Protection Plan (TPP - Ref: NJC1019_01_130622 **Appendix 1**) which identifies the following:

- Trees to be retained or removed.
- Construction Exclusion Zone.
- Precautionary Areas.
- Tree Protection Measures.

2.5 On site supervision regime

- 2.5.1 Supervision will involve a schedule of visits, as defined in Table 4, and completion of a written supervision record and supporting photographic evidence. A copy of the supervision record shall be forwarded to the LPA within five working days of the visit.
- 2.5.2 If the tasks are to be prolonged, provided the project arborist is satisfied, the supervision may be reduced to telephone contact between the site manager and the project arborist.
- 2.5.3 The supervision may require the project arborist to be present throughout the tasks to ensure all of the arboricultural objectives are met.

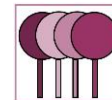


Activity	Phase/duration
Tree removals/remedial pruning	One visit on completion
Installation of tree protection measures, including temporary ground protection measures	One visit on completion
Excavation for foundations	Continuous
Excavations for services and utilities	Continuous
Removal of existing car park surfacing and remediation	Continuous
Removal of temporary ground protection measures and remediation	Continuous
Installation of cellular confinement system and permeable surfacing	Continuous
Periodic visits to ensure protection measures remain in place (as required outside of the specific elements above)	Monthly

Table 4

2.6 Construction Exclusion Zone (CEZ)

2.6.1 British Standard 5837:2012 recommendations provide a formula for calculating the Root Protection Area which indicates the area around a tree deemed to contain sufficient roots and soil rooting volume to maintain the trees viability. The protection of the roots and soil within this area should be treated as a priority. The shape of the RPA and its exact location will depend upon arboricultural considerations and the area will normally be represented on a constraints plan as a circle or polygon. This information has informed the extent of the CEZ. No work shall be undertaken within any defined CEZ's that may cause compaction to the soil or the severance of tree roots.

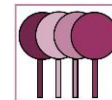


2.7 Precautionary Areas (PA's)

- 2.7.1 The PA's relate to the areas of the approved development within the RPA's of retained trees, principally T1 & T2. The PA's are identified where demolition, excavation and construction activity is required to facilitate the approved development and are indicated on the TPP **Appendix 1**. All excavation work within the defined PA's shall be completed with due regard to the principles contained within section 7.2 of BS5837:2012 'Avoiding physical damage to the roots during demolition or construction'. To ensure that the principles are adhered to, all excavation work within the defined PA's shall be carried out under direct arboricultural supervision.
- 2.7.2 The following areas are defined as PA's, the details of the activity to be completed under supervision are provided in Table 5 along with the reference to the relevant specific method statement section of this AMS.

Tree No.	Activity	Section
T1	Excavation for the installation of foundations.	2.8
T1	Excavation for the installation of services and utilities.	2.9
T1 & T2	Removal of existing car park, temporary ground protection measures and remediation along with the installation of new permeable surfacing.	2.10

Table 5



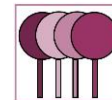
2.8 Method Statement for excavation works within the PA (adjacent to retained tree T1)

2.8.1 Due to the distance from the tree this area of the proposal can be facilitated using conventional strip footings. Piled overground foundation system is not considered reasonably practicable due to the existing levels on site and the requirement to raise all other associated levels within the RPA of T1 to excess.

2.8.2 In order to ensure that there is no damage to the rooting area of the trees caution must be exercised when working in this area.

2.8.3 The following methodology shall be implemented:

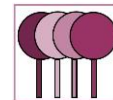
- Excavation shall be completed under continuous arboricultural supervision.
- When excavating, proceed with caution to uncover any roots present. A hand brush will expose roots cleanly before deciding whether it will be necessary to prune. Care must be taken not to damage roots including their protective bark covering.
- No excavated spoil shall be stored inside the PA as soil build-up can cause roots to die.
- Roots, whilst exposed, should immediately be wrapped or covered to prevent desiccation and to protect them from rapid temperature changes. Damp hessian sacking is suitable to prevent desiccation in the summer months. During winter months' hessian sacking and straw should be used to prevent the penetration of frost into the rooting environment.
- Any wrapping should be removed prior to reinstatement, which should take place as soon as possible.



- Roots smaller than 25 mm diameter may be pruned back, making a clean cut with a suitable sharp tool (e.g., bypass secateurs or handsaw), except where they occur in clumps. Roots occurring in clumps or of 25mm diameter and over should be severed only following consultation with an arborist, as such roots might be essential to the tree's health and stability. Prior to pouring the foundations, any pruned roots should be separated from the pour by heavy duty plastic sheeting and ply shuttering to prevent the ingress of concrete slurry into the rooting environment.
- Once the concrete has cured the plastic and shuttering shall be removed and the remaining void backfilled with topsoil.
- The topsoil shall be spread by hand only and consolidated in layers until desired levels are attained.
- Any associated vehicle movements should be restricted to the temporary surfaced areas only. Under no circumstances should vehicles or machinery be allowed passage across unprotected soil surfaces.

2.9 Method Statement for excavation within the PA (adjacent to retained tree T1)

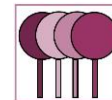
- 2.9.1 Services to facilitate the electric vehicle charging points along with the provision of a cycle store are approved.
- 2.9.2 In order to ensure that there is no damage to the rooting area of tree T1 caution must be exercised when working in this area.
- 2.9.3 The following methodology should be implemented:
 - Excavation shall be completed under continuous arboricultural supervision and should be completed by hand.
 - When excavating, proceed with caution to uncover any roots present. A hand brush will expose roots cleanly before deciding whether it will be necessary to prune. Care must be taken not to damage roots including their protective bark covering.



- No excavated spoil shall be stored inside the PA as soil build-up can cause roots to die.
- Roots, whilst exposed, should immediately be wrapped or covered to prevent desiccation and to protect them from rapid temperature changes. Damp hessian sacking is suitable to prevent desiccation in the summer months. During winter months' hessian sacking and straw should be used to prevent the penetration of frost into the rooting environment.
- Any wrapping should be removed prior to reinstatement, which should take place as soon as possible.
- Once the installations are complete backfilling can be completed with topsoil.
- The topsoil shall be spread by hand only and consolidated in layers until desired levels are attained.
- Any associated vehicle movements should be restricted to the surfaced area only. Under no circumstances should vehicles or machinery be allowed passage across unprotected soil surfaces.

2.10 Method Statement for surfacing works within the PA (adjacent to retained trees T1 & T2)

- 2.10.1 The removal of the existing hard surfaced car parking area and its replacement and extension with permeable surfacing is approved.
- 2.10.2 In order to ensure that there is no damage to the rooting area of the trees caution must be exercised when working in this area.
- 2.10.3 The phasing of works outlined below shall be implemented and the following methodology should be adhered to:



- Existing hard surfacing should be broken out using a pneumatic breaker.
- All arisings should be lifted and loaded by hand only.
- Any superfluous underlying aggregate between the roots shall be swept out and removed from site.
- The temporary ground protection measures shall be removed from site.
- Any remaining subbase and underlying soil shall be de-compacted, as is practicable, using an air spade.
- The ground will then be levelled with all major depressions filled with a sharp sand layer. High spots will not be graded off.
- A geotextile membrane will then be spread over the area of construction.
- The construction process will be such that there is no movement of machinery within the root protection area prior to the ground being protected.
- The Cellular Confinement System/3 dimensional load spreader (Figure 1) will then be applied directly on to the membrane and edged with timber boards and pegs. This edging will be placed on the grid layer and not to the side of it so that pressure on the running surface will force the edging outward thus increasing the tension on the load spreader.

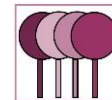
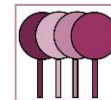


Figure 1

- The grid layer will then be filled with an aggregate level and compacted as required to minimise rutting when in final use. A minimum layer of 100mm will be allowed. The spreading of the material will commence at one end and work through the length of the area to ensure that machinery is always working on the constructed surface.
- Thereafter a geotextile barrier shall be overlaid and capped with a sharp sand layer to bed the permeable paving onto, a hand operated vibrating plate shall be used to consolidate the paving to the desired levels.
- On completion kiln dried sand shall be swept into the joints to stabilise and finish the surfacing.



2.11 Protective Fencing/site hoarding

2.11.1 Protective fencing will be erected in accordance with section 6 of BS5837:2012 and as indicated in Figure 1, where possible timber framed site hoarding will be employed in place of the protective fencing. The location of the protective fencing/hoarding is indicated on the TPP **Appendix 1**.

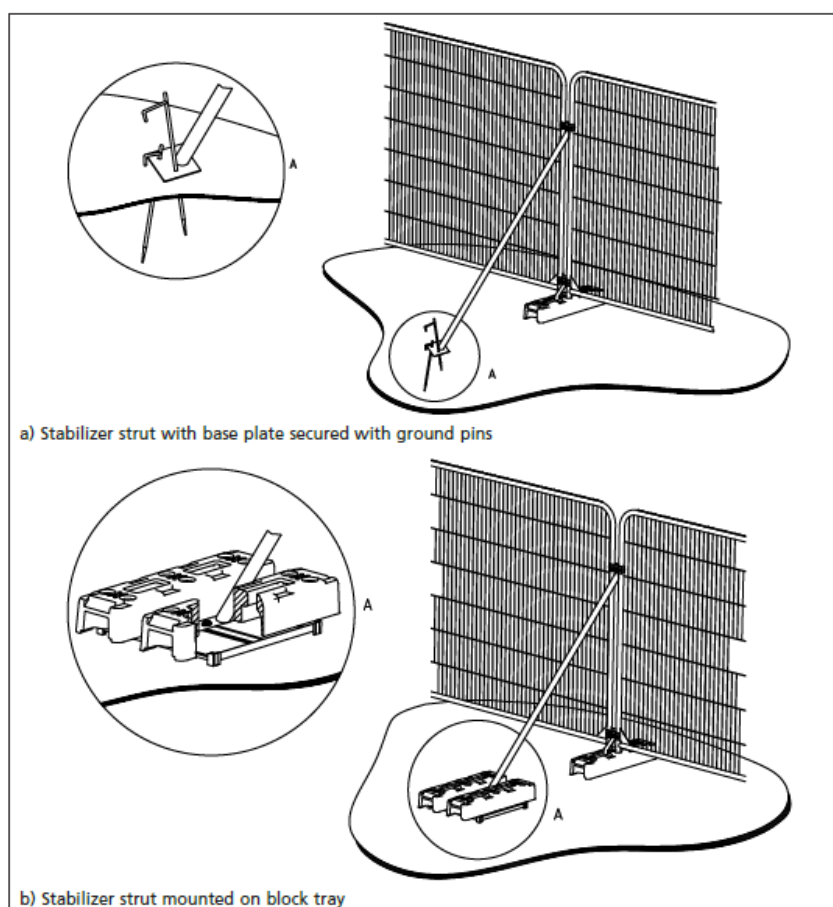
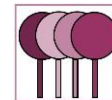


Figure 1

2.12 Temporary Ground Protection

2.12.1 In order to facilitate construction access temporary ground protection will be installed. The location of the temporary ground protection is indicated on the TPP **Appendix 1**.

2.12.2 The ground protection should accord with the guidance contained in section 6 of British Standard 5837:2012 - Trees in relation to design, demolition and construction – Recommendations. Where scaffold is



required the ground protection shall consist of a single thickness of scaffold boards placed on top of a scaffold frame, so as to form a suspended walkway (Figure 2).

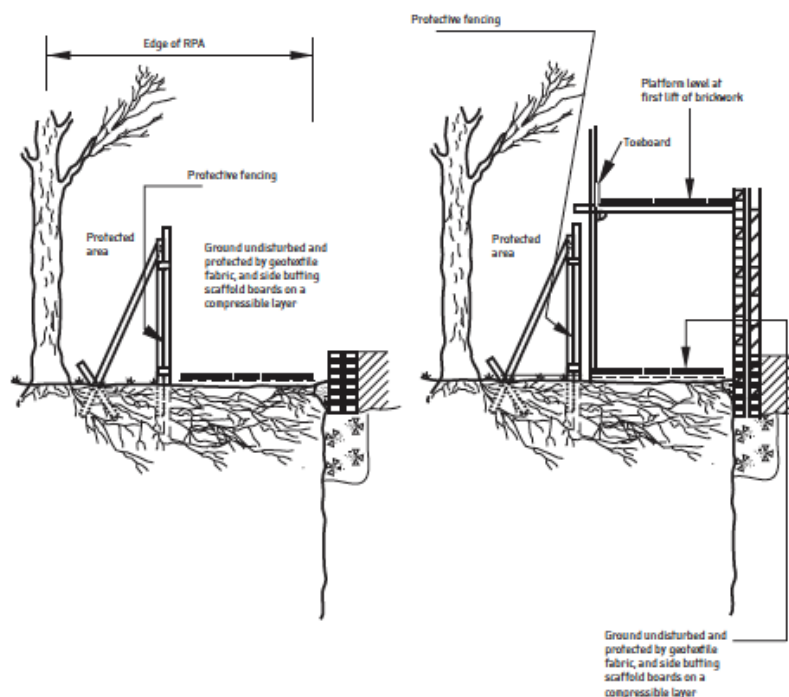


Figure 2

- 2.12.3 In all other defined areas, the ground protection shall consist of a geotextile membrane covering the existing surface, capped with a compressible layer of 100-150mm of wood chippings and finished with a temporary trakway or heavy-duty plastic ground guards as illustrated in Figure 3.

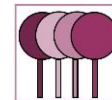


Figure 3

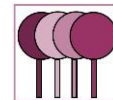
2.12.4 All protective measures shall be installed prior to the commencement of any works on site. Any accidental damage to the retained trees or any associated protection measures must be reported to the site manager immediately. Works occurring in the vicinity must cease immediately until adequate remediation has been completed. A record of any damage will be made by the site manager and in consultation with the project arborist any remediation undertaken.

2.13 Precautions in Respect of Temporary Works

2.13.1 If temporary access is required within the CEZ then access may only be gained following consultation with the LPA and the placement of any agreed additional protection measures, such as ground protection matting.

2.14 Access Details

2.14.1 There is no requirement for any special measures related to the retained trees as all access for construction vehicles will be from the existing access point from Durham Gardens.



2.15 Contractors Car Parking

2.15.1 No car parking will be available within the CEZ.

2.16 Site Huts and Toilets

2.16.1 Site offices and welfare facilities shall be located within the existing building on site.

2.17 Storage Space

2.17.1 No materials will be stored within the CEZ.

2.18 Additional Precautions

2.18.1 There are no services planned within the CEZ or within areas of the site where they may impact upon retained trees.

2.18.2 No storage of materials or lighting of fires will take place within the CEZ. No materials shall be stored or mixed in a location where they may leach into the CEZ.

2.18.3 If cranes and or high sided vehicles are required during the construction period, then a separate method statement shall be supplied and agreed by the LPA to ensure that there is no damage to any retained trees.

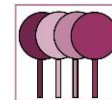
2.18.4 No site notices, cables or other services shall be attached to any tree.

2.19 Site Gradients

2.19.1 No alterations of existing soil levels will take place within the CEZ. All other details of both existing and proposed levels have been provided on the illustrative landscape masterplan.

2.20 Demolition

2.20.1 No demolition is required to facilitate the approved development.



2.21 Hard Surfaces

2.21.1 No hard surfaces are to be constructed within the CEZ.

2.22 Soft Landscaping

2.22.1 All details of both hard and soft landscape proposals have been submitted under separate cover in response to the requirements of Conditions 8 & 25.

2.23 Use of Herbicides

2.23.1 No herbicide use is required on site.

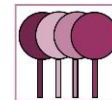
2.24 Contingency Plan

2.24.1 Water is readily available on site and will be used to flush spilt materials through the soil and avoid contamination to tree roots. At the time of any spillage the main contractor will contact the project arborist for advice.

2.25 Remedial Tree Works

2.25.1 All tree works, including the necessary removals, shall be undertaken prior to the commencement of construction work on site. All tree works shall be undertaken in accordance with the guidance provided in British Standard 3998: Recommendations for Tree Works 2010.

2.25.2 Access facilitation pruning is required to tree T2 to enable site deliveries and unloading. The crown of the tree shall be raised to approximately 5m over the access only.



3. Summary & Conclusions

- 3.1 It is my professional opinion that the development approved allows for confidence in the long-term retention of the existing adjacent tree cover and would not result in any detriment to the character of the local area and the wider treescape.
- 3.2 In summary, I consider that there are no additional arboricultural issues that reasonably restrict the approved development of the site. It is therefore requested that the tree protection related elements of condition 4 attached to appeal decision APP/X1735/W/21/3272259 be initially discharged pending the completion of the supervision elements outlined herein and the subsequent discharge of condition 5.

Prepared by Nicholas Jones *BSc (Hons). MSc. M Arbor A.*

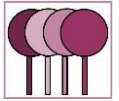
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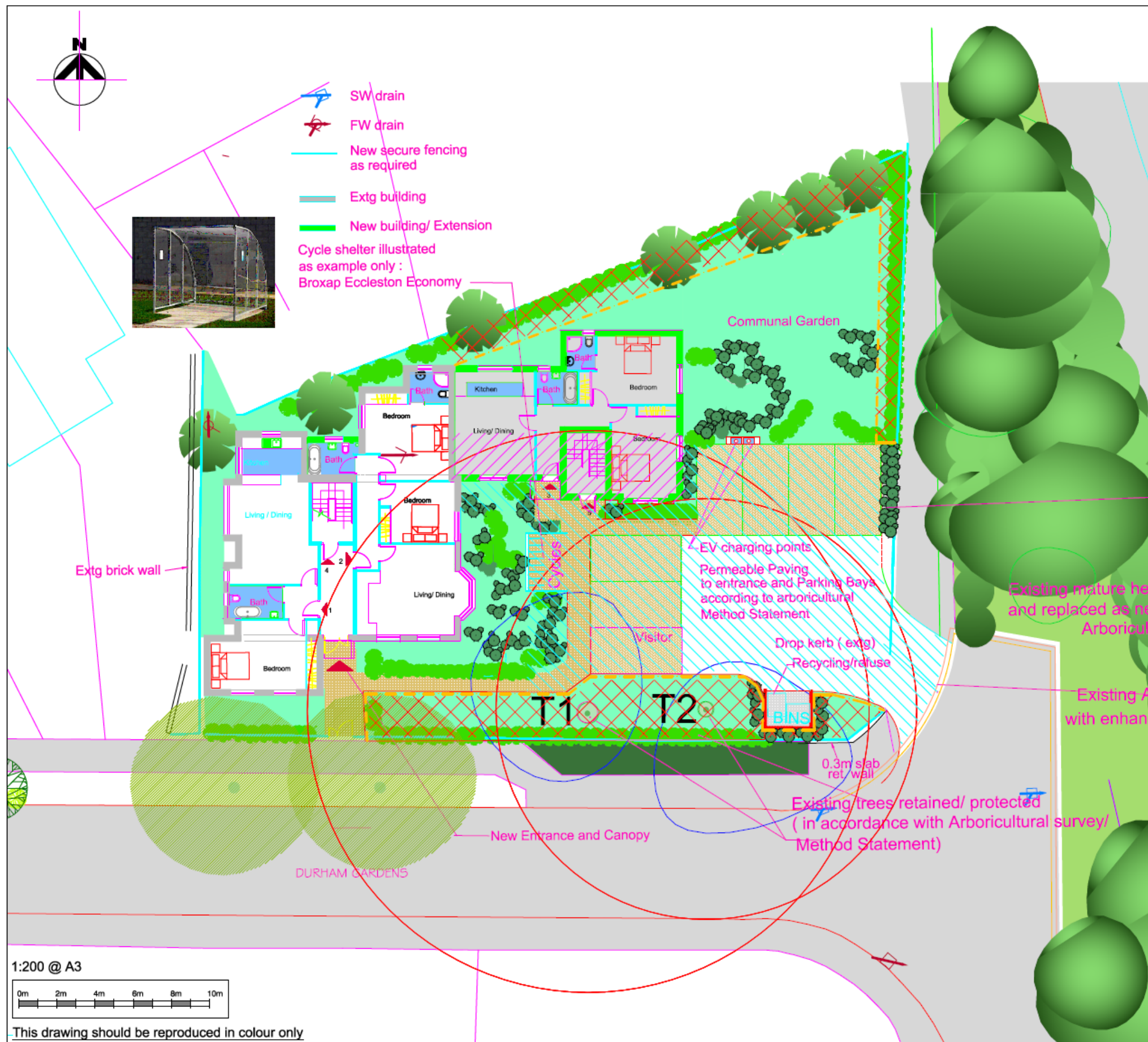
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Appendix 1 – Tree Protection Plan Drg No. NJC1019 01 130622

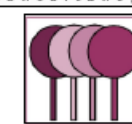
*Do not scale from the drawings reproduced within this report



-  Crowns of retained trees T1 & T2
-  Root Protection Area (RPA)
-  Extent of Precautionary Area (PA) for excavation
-  Tree Protection Fencing (TPF)
-  Construction Exclusion Zone (CEZ)
-  Extent of ground protection during the construction phase and extent of Cellular Confinement System (CCS) and precautionary area (PA)

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Client's Name

M A Wright Ltd

Job Title

162 Stakes Hill Road, Waterlooville
Hampshire, PO7 7BS

Drawing Title

Tree Protection Plan

Scale

1:200 @ A3

Drawn

NDJ

Date

13.06.2022

Drg No

NJC1019_01_130622

Status

INFORMATION

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