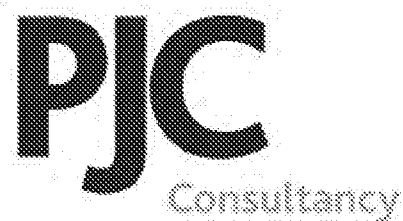


Arboricultural Impact Assessment

Land at:
Yapton Road
Middleton-on-Sea
PO22 6SE

27th August 2020



PJC ref: 5602/20-02 Rev

This report has been prepared by

PJC Consultancy Ltd

on behalf of

SLR Consulting Ltd

**Prepared
by**

Nick Betts HND For M.Arbor.A

Nick has attained an HND in forestry management and is a professional member of both the Arboricultural Association and the Consulting Arborists Society. He has worked in the arboricultural and forestry industries for 17 years. He started his career as a forestry worker before qualifying as a tree surgeon, working in both the private and commercial sectors. He has been a practising consultant since 2004. He is a Lantra accredited professional tree inspector.

**Checked
by**

Peter Davies FdSc Arboriculture M.Arbor.A

Peter has a Foundation Degree in Arboriculture from the University of Brighton and is a professional member of the Arboricultural Association. He has over 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.

Sussex office:

Rocks Yard, Victoria Road,
Herstmonceux, Hailsham,
East Sussex, BN27 4TQ

Kent office:

Unit 1, Hanover Mill,
Mersham, Ashford,
Kent, TN25 6NU



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1 EXECUTIVE SUMMARY

1.1 This report should be read in conjunction with arboricultural survey ref. PJC/5602/20-01 and arboricultural method statement ref. PJC/5602/20-03.

1.2 **Site location:** The site is situated northwest of the junction between Yapton Road (B2132) and Silver Birch Drive, more broadly it is approximately equidistant between Littlehampton and Bognor Regis. It has a central OS national grid reference of SU 97390 00750. The surrounding land use is comprised of open fields, woodland and arable farmland to the north and northwest; Middleton business park to the east and domestic residences to the south. The location of the site within its environs is shown in figure 1.



Figure 1: Location of Site and Environs (Map data: © 2019 Google)

1.3 **Proposal:** A proposal has been outlined to demolish old farm buildings and disused chicken sheds at a parcel of land north of Silver Birch Drive and build a new residential care home.

1.4 Tree removals: Trees T1, G2, G3, T8, T13–15, G20 and part of G7 will require removal to facilitate the proposed development. G3, T13, T14 and part of G7 are to be removed in addition to those already proposed for removal as agreed in a previous consented scheme by West Sussex County Council. G16 can now be retained and enhanced where it was previously marked for removal.

1.5 Access facilitation pruning: Tree T4 is anticipated to require access facilitation pruning to enable the proposed construction works.

1.6 Works within root protection areas: A new culvert and engineered road crossing will be constructed within the root protection area of T4, T5 and T10; and a new tarmacked car park will be constructed within the root protection areas of T4 and T5 each requiring sympathetic construction methodologies.

2 INTRODUCTION

2.1 Instruction: PJC Consultancy has been instructed by SLR Consulting Ltd to provide an arboricultural impact assessment in accordance with BS5837: 2012 '*Trees in relation to design, demolition and construction – Recommendations*' for the proposed development of land at Yapton Road, Middleton-on-Sea.

2.2 Objectives of report: This report has been undertaken with the following objectives:

- To identify the tree removals and pruning works that will be required as a result of the proposed development and to assess the impact of the tree works.
- To assess the potential impact the proposed construction works will have on retained trees and provide recommendations for mitigation measures to reduce the impact on the trees.
- To assess the post development relationship between trees and the proposed development.

2.3 Scope of this report: This report is concerned with all significant trees and arboricultural features located within the site boundary. Additionally, trees located around the curtilage of the site have also been assessed when they are considered likely to have the potential to impact on the development (in relation to root and crown protection or foundation design).

2.4 A previously proposed development scheme, as addressed in PJC reports: 3822/16-02 r2 and 3822/16-03 r2, gained consent by West Sussex County Council. This Impact Assessment and Method statement (ref: PJC/5256/19-03 Rev01) respects the measures taken in those reports with additional measures only being taken that directly reflect changes in the new proposed design layout.

2.5 Contents of report: This report includes the following:

- A schedule of trees to be retained/removed.
- A schedule of access facilitation pruning required for the development.
- 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.
- Tree Constraints Plan and Tree Retention Plan.
- Tree Survey Schedule including management recommendations related directly to the proposed development.

2.6 Documents and information provided: The following documents were used to aid the preparation of this report:

- Drawing ref. EW Middleton base topo and layout 190618
- Drawing ref. EW Middleton baseplan 200615
- Drawing ref. Proposed access arrangements 001 (Produced by SLR Consulting)

2.7 Limitations of report: The following arboricultural impact assessment has been prepared for the proposal stated in paragraph 1.3 and using the plans and information listed in paragraph 2.5. The report should not be relied upon if the stated proposal or proposed design changes unless the author confirms the changes do not have a bearing on the arboricultural impacts or recommended mitigation measures.

3 ARBORICULTURAL IMPACT ASSESSMENT

3.1 Tree removals: Trees to be removed for the proposed development are shown with dashed outlines on the Tree Retention Plan in Appendix 1 and are shaded to indicate their BS5837 tree category. These comprise T1, G2, G3, T8, T13–T15, G20 and part of G7 (three category C trees, two category C groups, two category U trees and two category U groups). A summary of the tree removals is shown below.

Table 1: Tree removals summary

Tree number	Species	Category	Justification for tree removal
T1	Silver birch	C	Direct conflict with new building.
G2	Elder	U	Direct conflict with new building.
G3	Elder	U	Direct conflict with new car park.
G7 (part)	Mixed deciduous	C	Direct conflict with new car park.
T8	Hawthorn	U	Direct conflict with site access
T13	Ash	U	Low quality specimen not in keeping with new layout and design aesthetic.
T14	Ash	C	Direct conflict with new car park.
T15	Cherry laurel	C	Low quality specimen not in keeping with new layout and design aesthetic.
G20	Mixed deciduous	C	Low quality group consisting of mainly scrub in direct conflict with new building.

3.2 The removal of trees T1, G2, T8, T15, G20 and G22 are the same as was described in the previous consented scheme. Additional tree removals constitute: G3 and T13 which are U quality trees unviable for retention due to their poor quality and expected longevity; a small section of G7 cut back to the boundary fence line; and T14 a low-quality C category tree of limited value. The new scheme does, however, facilitate and even proposes to improve, the retention of G16 along the eastern boundary of the site.

3.3 Mitigation planting: The site offers ample opportunity for both replacement and additional tree planting during the soft landscaping phase of development. The detailed soft landscape proposals for the proposed development are to be confirmed on the date of this report.

3.4 Access facilitation pruning: Trees expected to require access facilitation pruning to enable the proposed construction works (based on the information currently available) comprises solely of T4. A summary of access facilitation pruning is shown below.

Table 2: Summary of access facilitation pruning

Tree number	Species	Works required	Reason for works
T4	Ash	Removal of lowest limb over existing gate back to branch collar and partial crown raise.	To provide unobstructed access to site for demolition and construction traffic. Lowest limb shows no sign of re-growth from historic pruning and may conflict with access to site. TPO tree permission must be granted by Local Authority.

3.5 Based on the information currently available, it is anticipated that the crowns of all remaining retained trees will be located a sufficient distance from proposed construction activities and expected construction access routes so as not to require access facilitation pruning.

3.6 Any additional 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 or specialist plant machinery) shall be discussed at the pre-commencement meeting with the project arboriculturist and agreed with the local authority arboricultural officer. No works may be carried out on protected trees without prior permission from the local authority.

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

3.8 Building footings in proximity to trees: All proposed buildings will be located outside the root protection areas of retained trees, therefore use of specialist foundations for root protection is not deemed necessary. NHBC guidelines on foundation depth in proximity to trees should still be followed. This will be determined by a structural engineer but should be guided by information in this report and appropriate sampling to determine soil profiles at the site.

3.9 Extension of existing culvert: The proposed new access road is wider and further east than the existing point of access; this will require the extension of the existing culvert. A new concrete headwall, designed to an engineer's specification, will need to be installed, as far as reasonably practicable, within the existing ditch in the root protection area of T10 with the ditch then backfilled to support the new access road. Any digging required to install the headwall shall be conducted with the use of hand tools and under the supervision of the project arboriculturist.

3.10 New surfaces in proximity to trees: The new access to site that encroaches the root protection areas of trees T4, T5 and T10 was originally proposed to utilise an engineered solution supported on four concrete pads to reduce the impact on tree roots. That design

was agreed by the local Highway Authority; however, this Impact Assessment refers to a new simplified proposal utilising solely Cellweb TRP no-dig confinement system.

3.11 The new access road and car park will encroach the root protection areas of trees T4, T5 and T10 in the areas highlighted light blue on the Tree Retention Plan. To ensure these trees remain viable post development, the surface within these areas shall be constructed to the following basic specification (see also Appendix 3):

- Within the root protection areas, the new surfaces shall be constructed directly onto the existing ground level without soil stripping (other than the careful removal of surface vegetation). If necessary a layer of sharp sand (or other inert granular aggregate) may be used to fill divots to create a level surface onto which the hard standing can be constructed.
- The surface shall be constructed on a CellWeb TRP cellular confinement system filled with clean angular stone (Type 4/20mm). This will provide a permeable base for the surface that will spread the loads of vehicles to reduce compaction of the soil beneath (compacted rooting medium can have a significant detrimental impact on root function).
- CellWeb TRP is available from 75mm–200mm depth, depending on the soil conditions and the load it is designed to support. Further guidance should be sought from the manufacturer when specifying the detailed surface designs. In some cases, it may be necessary to lay additional sub-base beneath the cellular confinement system, however this must also be permeable and laid onto the existing ground level.
- The cellular confinement system shall be installed directly onto a TreeTex Geotextile membrane. A second membrane shall be installed above the cellular confinement system as well. These membranes will prevent the migration of soil, construction debris and other materials migrating through the cellular confinement system as that would otherwise impact on the porosity of the completed surface. The membranes should also help filter pollutants from vehicles from leeching into the rooting medium.
- The wearing course for the new surfaces shall be permeable (resin bound gravel, permeable tarmac or block paving with permeable spacers and bedding aggregate) to allow continued moisture ingress and gaseous diffusion with the rooting medium.
- Traditional kerbing usually requires linear trenching to install so will not be suitable for use within the root protection areas of retained trees. As an alternative, kerbing with an above ground haunch and potentially metal support pins, treated timber edging, aluminium L-shaped edging, galvanised metal edging or no fixed edging shall be used.

3.12 The final level of the access road and footpath wearing course will be higher than the existing levels of Silver Birch Drive and the access track along the southern site boundary. It will therefore be necessary to tie these levels in together by raising the existing levels to meet the new levels rather than digging the new levels down to meet the existing. This will reduce the chance of damaging roots in root protection areas and compacting the rooting medium.

3.13 The detailed specification (including levels) for new surfaces to be constructed within root protection areas shall be provided by an engineer but shall be signed off by the project arboriculturist before implementation to ensure the roots and rooting medium are adequately protected.

3.14 Services: Details of the routing of services for the proposed development are not currently available. All underground services should be located outside the root protection areas of retained trees and above ground services should be located outside the anticipated mature crown spreads. Sympathetic methodology to enable the installation of services within root protection areas (in certain instances) is available, however there will always be a potential arboricultural impact and arboricultural advice must be sought regarding the suitability of these methods before they are relied upon. If it is achievable, root protection areas should always be completely avoided.

3.15 Once details of the routing of new services become available, prior to commencement, these shall be reviewed by the project arboriculturist. The arboriculturist shall then confirm 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 NJUG4 '*Guidelines for the planning, installation and maintenance of utilities in proximity to trees*' and BS5837: 2012.

3.16 Vulnerability of trees during construction period: Construction activities can cause compaction or contamination of the rooting medium, which can have a significant detrimental impact on root function and the long-term health of trees. Similarly, construction activities can result in damage to the above ground parts of trees that are not sufficiently segregated from the works area. It is therefore important to implement a tree protection strategy during the construction period. This strategy is described in the arboricultural method statement and on the accompanying Tree Protection Plan. The purpose of the tree protection strategy is as follows:

- To protect the above ground parts of trees from physical damage such as contact with plant machinery.
- To prevent compaction of the soil within root protection areas resulting from activities such as the movement of plant machinery or the storage of construction materials.
- To prevent contamination of the rooting medium resulting from the storage and handling of harmful chemicals such as cement/cement washings, builders' sand or fuel within root protection areas.
- To prevent physical damage to trees whilst existing structures or hard standing are removed from within root protection areas.
- To specify sympathetic construction methodology for specific activities that will occur within root protection areas.

3.17 Landscaping in proximity to trees: Close boarded fencing and steel hoop-top railing will be installed within the root protection areas of numerous trees throughout the site. Guidance for installing fences is included within the method statement.

3.18 The detailed specification for soft landscaping is to be confirmed on the date of this report, however it is anticipated that tree/shrub planting and turfing will occur within the root protection areas of retained trees. In order to protect both tree roots and the condition of the rooting medium, these works must occur sensitively as described in the arboricultural method statement.

3.19 Post development tree pressures and management: The proposed development has been assessed to determine the likely future pressure to prune or remove additional trees. Due to the proximity of retained trees to the proposed development, it is unlikely that they will cause such a nuisance as to cause a call for their removal or the need for harsh pruning to avoid conflict with the proposed development.

4 CONCLUSIONS

4.1 Trees requiring removal to facilitate the proposed development comprise T1, G2, G3, T8, T13–15, G20 and part of G7 (three category C trees, two category C groups, two category U trees and two category U groups). Trees considered to be of higher arboricultural value including T4, T5 and T10 which are protected by a Tree Preservation Order, will be retained.

4.2 Additional tree removals to the previously consented scheme by West Sussex County Council comprise G3 and T13 (U category trees), part of G7 (C category) back to the boundary fence line and T14 (C category) a tree of low quality and limited amenity value. G16 will now however, be retained and improved with additional planting.

4.3 The proposed site layout involves construction of a new access road and car parking areas within the root protection areas of T4, T5 and T10. Due to the condition, amenity value and TPO protection of these trees, engineered solutions have been provided to minimise the impact of construction works, therefore allowing their retention and continued contribution to the site.

4.4 All proposed buildings will be located outside the root protection areas of retained trees. Provided the exclusion zones and methodologies described in the arboricultural method statement and Tree Protection Plan are followed, trees proposed for retention should not be adversely affected by the construction works.

4.5 Based on the above assessment, trees recommended for retention in this report can be protected during the construction period and successfully integrated into the site post development.

Contact details

Sussex office:

Rocks Yard
Victoria Road
Herstmonceux
Hailsham
East Sussex
BN27 4TQ

[REDACTED]

Author: Nick Betts

Date: 27th August 2020

[REDACTED]

APPENDIX 1

Tree Constraints Plan and Tree Retention Plan



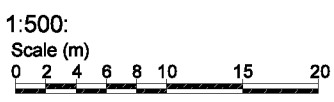
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 - Root protection area for category B* tree
 - Root protection area for category C* tree
 - Root protection area for category U* tree
 - Tree canopy

* 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 re ref. PJC/5602/20-01 contains further information for each tree.

This drawing should be viewed in colour.

Tree numbers suffixed with PA indicate the tree position is approximate.



Drawing no: PJC/5602/20/A Rev: - Sheet number: 1 of 1

Client and site:
SLR Consulting Ltd

Yaptan Road
Middleton-on-Sea
PO22 6SE

Drawing title: Tree Constraints Plan

Date drawn: 27/08/2020

Scale: 1:500 at A3

Drawn by: NB Checked by: PD

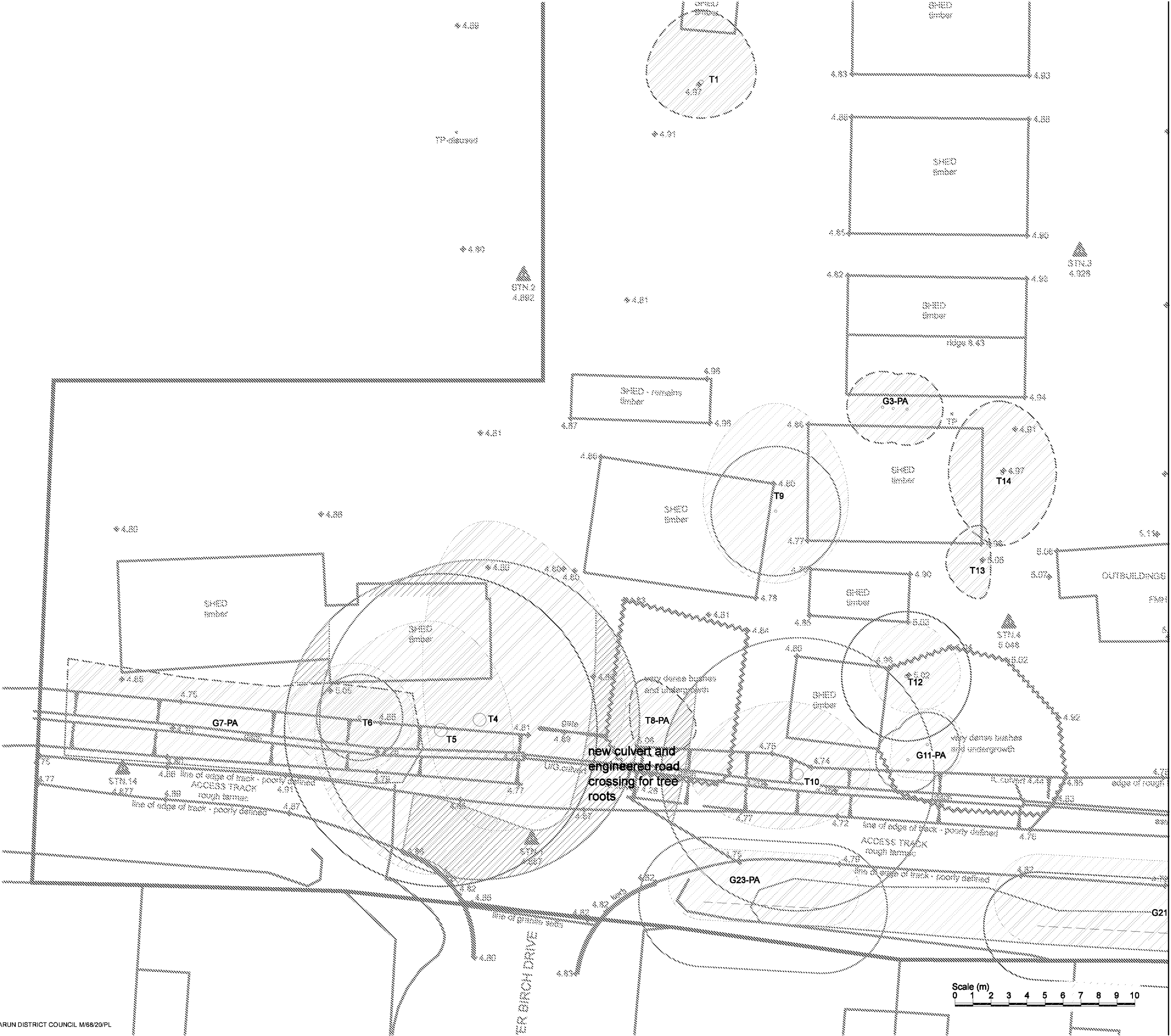


PJC
Arboricultural, Ecological & Landscape Consultancy



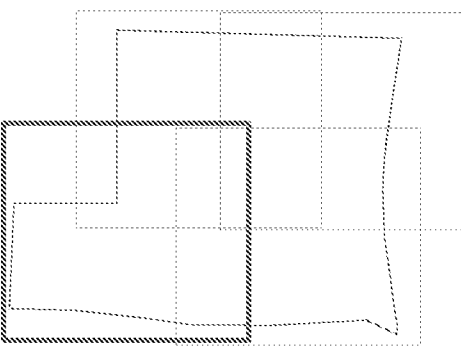
N

PJC Consultancy
Rocks Yard, Victoria Road, Harestone
Hailsham, East Sussex, BN27 4TQ.
01323 832120
contact@pjcconsultancy.com
www.pjcconsultancy.com



- Key:**
- Root protection area for category A* tree to be retained
 - Root protection area for category B* tree to be retained
 - Root protection area for category C* tree to be retained
 - Canopy of tree to be retained
 - Canopy of tree to be retained subject to TPO
 - Canopy of category C* tree to be removed
 - Canopy of category U* tree to be removed
 - Encroachment of new surfaces into RPA

* 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. PJC/5602/20-02 Rev0 contains further information for each tree.
This drawing should be viewed in colour.
Tree numbers suffixed with PA indicate the tree position is approximate.



Drawing no: PJC/5602/20/B	Rev: -	Sheet number: 1 of 4
Client and site: SLR Consulting Ltd		
Yapton Road Middleton-on-Sea PO22 6SE		
Drawing title: Tree Retention Plan		
Date drawn: 27/08/2020		
Scale: 1:200 at A3		
Drawn by: NB	Checked by: PD	



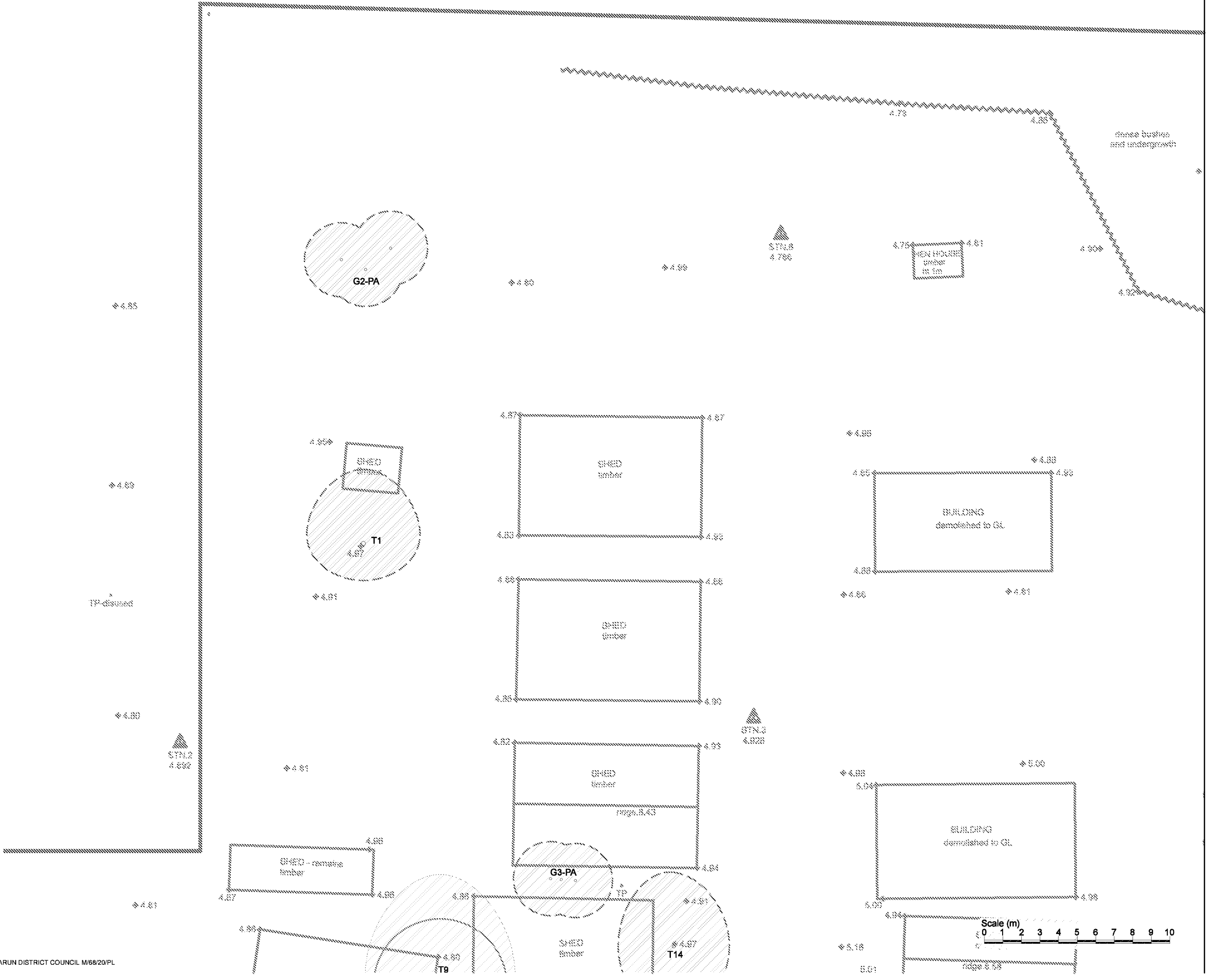
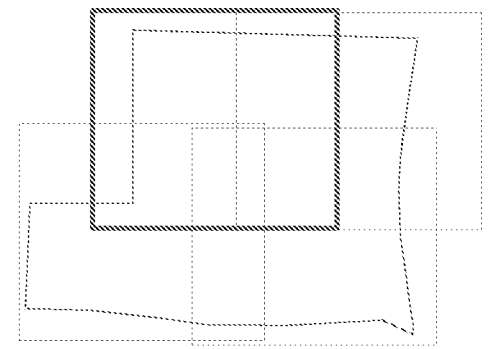
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 - Root protection area for category C* tree to be retained
 - Canopy of tree to be retained
 - Canopy of tree to be retained subject to TPO
 - Canopy of category C* tree to be removed
 - Canopy of category U* tree to be removed
 - Encroachment of new surfaces into RPA

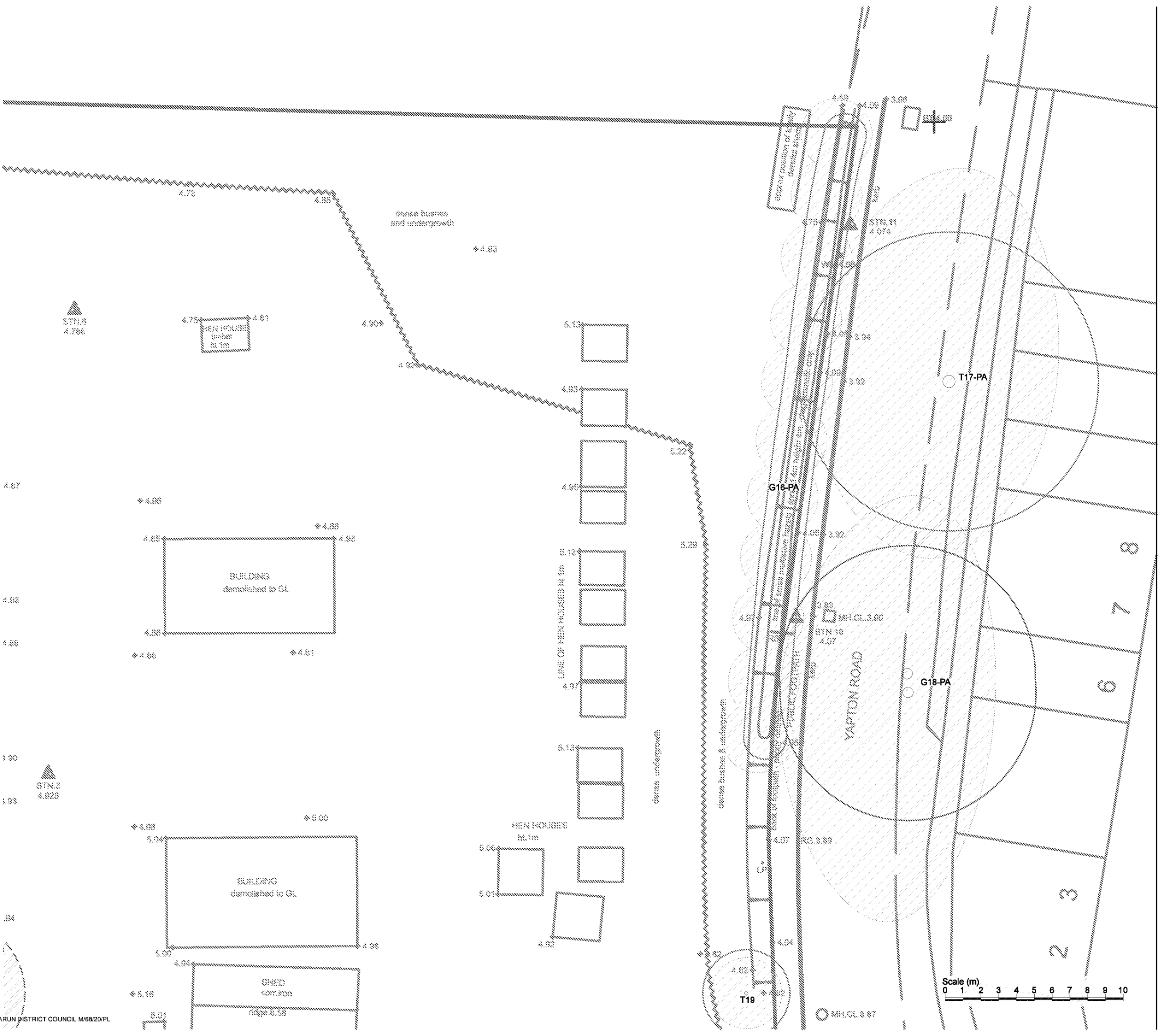
* Tree categorised in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.

Appendix 2, (Tree Survey Schedule) contained within the arboricultural report ref. PJC/5602/20-02 Rev0 contains further information for each tree.

This drawing should be viewed in colour.

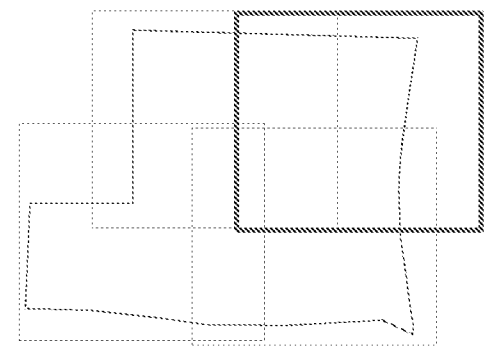
Tree numbers suffixed with PA indicate the tree position is approximate.





- Key:**
- Root protection area for category A* tree to be retained
 - Root protection area for category B* tree to be retained
 - Root protection area for category C* tree to be retained
 - Canopy of tree to be retained
 - Canopy of tree to be retained subject to TPO
 - Canopy of category C* tree to be removed
 - Canopy of category U* tree to be removed
 - Encroachment of new surfaces into RPA

* 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. PJC/5602/20-02 Rev0 contains further information for each tree.
This drawing should be viewed in colour.
Tree numbers suffixed with PA indicate the tree position is approximate.



Drawing no: PJC/5602/20/B			Rev: -	Sheet number: 4 of 4
Client and site: SLR Consulting Ltd				
Yapton Road Middleton-on-Sea PO22 6SE				
Drawing title: Tree Retention Plan				
Date drawn: 27/08/2020				
Scale: 1:200 at A3				
Drawn by: NB		Checked by: PD		

APPENDIX 2

Tree Survey Schedule

Site: Yapton Road, Middleton-on-Sea

Tree Survey Schedule

Survey date: 25th August 2020



Surveyor: Nick Betts

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendations	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
T1	Silver birch (Betula pendula)	7	250 estimate	N: 4 E: 3 S: 2 W: 3	Crown: 0 average Branch: 0 average	Semi-mature	Fair	Fair	Low spreading habit. Minor dieback in upper crown.	Fell	C1	28.3	3.0
G2	Elder (Sambucus nigra)	3-4 average	Up to 75 average	2 average	0 average	Semi-mature	Fair	Poor	Partially dead and dying elder scrub.	Fell	U	2.5 average	0.9 average
G3	Elder (Sambucus nigra)	2-3 average	Up to 75 average	2 average	0 average	Semi-mature	Poor	Poor	Dead and dying elder scrub.	Fell	U	2.5 average	0.9 average
T4	Ash (Fraxinus excelsior)	12 est	330, 660	N: 11 E: 8 S: 6 W: 3	Crown: 2 South Branch: 1 East	Mature	Fair	Fair	Minor dieback. Multi-stemmed from base. Bacterial canker. Low clearance of major branch over gate, cut to 2m. TPO on tree.	TPO - Permission must be granted. Remove lowest limb over gate to branch collar and crown raise to 5m over new site access.	C1+2	246.4	8.9
T5	Ash (Fraxinus excelsior)	12 est	410, 400, 450	N: 6 E: 4 S: 8 W: 7	Crown: 1 South Branch: 2 North	Mature	Good	Fair	Multi-stemmed tree adjacent to ditch. Minor deadwood. Previously crown lifted. TPO on tree.	No action required.	S2	240.1	8.7
T6	Hawthorn (Crataegus monogyna)	6	200 estimate	N: 3 E: 3 S: 3 W: 4	Crown: 0.5 East Branch: 0 average	Early-mature	Fair	Fair	Sparse crown. Partially failed on south side, 1x dead stem. Some deadwood. Dense scrub at base hindering thorough inspection.	No action required.	C1	18.1	2.4

Site: Yapton Road, Middleton-on-Sea

Tree Survey Schedule

Survey date: 25th August 2020



Surveyor: Nick Betts

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendations	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
G7	Elder, hawthorn and elm	4-6 average	Up to 150 average	4 average	0 average	Semi-mature	Fair	Fair	Scrub and small trees adjacent to public footpath.	Clear back to fence line at edge of ditch.	C2	10.2 average	1.8 average
T8	Hawthorn (Crataegus monogyna)	4	250 estimate	N: 3	Crown: 0 East	Over-mature	Poor	Poor	Smothered by bramble with virtually no foliage.	Fell	U	28.3	3.0
				E: 3	Branch: 1 East								
				S: 1	W: 0								
T9	Field maple (Acer campestre)	7	300 estimate	N: 6	Crown: 1 East	Semi-mature	Good	Fair	Growing at footing of old dilapidated building.	No action required on date of survey.	C1	40.7	3.6
				E: 4	Branch: 4								
				S: 4	W: 4								
T10	Field maple (Acer campestre)	8	550, 240, 200 estimate	N: 4	Crown: 3 North	Over-mature	Fair	Fair	Large basal cavity. Previously crown lifted over path. Decline in tips of crown. Some deadwood. TPO on tree.	TPO - Permission must be granted. Remove deadwood over footpath.	C1	181.0	7.6
				E: 4	Branch: 3								
				S: 3	W: 6								
G11	Elder (Sambucus nigra)	6 average	Up to 150 average	N: 3	Crown: 1 East	Early-mature	Fair	Fair	2x specimens with sparse crowns, deadwood and split limbs.	No action required.	C1	10.2 average	1.8 average
				E: 3	Branch: 2								
				S: 2	W: 2								
T12	Ash (Fraxinus excelsior)	8	300 estimate	N: 3	Crown: 1 East	Semi-mature	Good	Good	Good condition, form and vigour. No major visible defects. Ivy on stem. Restricted access to survey.	No action required on date of survey.	B1	40.7	3.6
				E: 3	Branch: 2								
				S: 2	W: 2								

Site: Yapton Road, Middleton-on-Sea

Tree Survey Schedule

Survey date: 25th August 2020



Surveyor: Nick Betts

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendations	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
T13	Ash (Fraxinus excelsior)	12 est	220 estimate	N: 2 E: 1 S: 2 W: 3	Crown: 1 West Branch: 2 West	Semi-mature	Poor	Fair	Slightly one sided crown due to previous suppression. Bacterial canker resulting in crown dieback.	Fell	U	21.9	2.6
T14	Ash (Fraxinus excelsior)	8	230 estimate	N: 4 E: 3 S: 4 W: 3	Crown: 2 average Branch: 1 average	Semi-mature	Good	Good	Slightly suppressed on south side of crown. No major visible defects.	Fell	C1	23.9	2.8
T15	Cherry laurel (Prunus laurocerasus)	5	8x 100 estimate	N: 0 E: 2 S: 2 W: 2	Crown: 0 average Branch: 0 average	Semi-mature	Good	Good	Growing against side of empty house.	Fell	C2	36.2 as amended on tree constraints plan	3.4 as amended on tree constraints plan
G16	Hazel dominant, dogwood and elder	3-5 average	Up to 100 average	1-2 average	0 average	Semi-mature	Fair	Fair	Scrub area along road frontage. Screens site from Yapton Road.	No action required.	C2	4.5 average	1.2 average
T17	English oak (Quercus robur)	11	700 estimate	N: 12 E: 6 S: 10 W: 8	Crown: 3 South Branch: 3 average	Mature	Good	Good	Large oak located on third party land on opposite side of Yapton Road.	Remove deadwood overhanging road (suggestion only as tree is third party).	A1+2	221.7	8.4
G18	English oak (Quercus robur)	8-10 average	Up to 600 average estimate	N: 10 E: 5 S: 4 W: 7	3 average	Mature	Good	Good	2x third party oaks forming single canopy shape. Located on opposite side of Yapton Road.	Sever ivy to allow comprehensive inspections in the future (suggestion only as trees are third party).	S1+2	162.9 average	7.2 average

Site: Yapton Road, Middleton-on-Sea

Tree Survey Schedule

Survey date: 25th August 2020

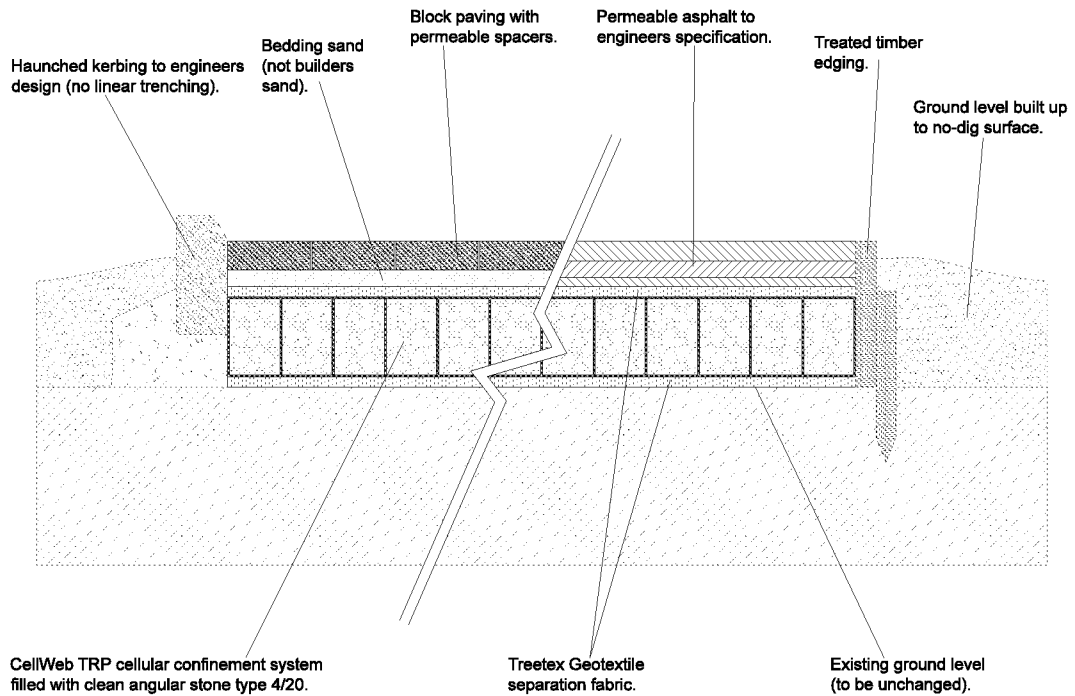


Surveyor: Nick Betts

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendations	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
T19	Cherry (Prunus avium)	5	220, 260, 220 estimate	N: 2 E: 2 S: 2 W: 2	Crown: 1 West Branch: 1 South	Semi-mature	Good	Fair	Multi-stemmed from 1m. Tight and congested unions. Crossing and rubbing branches.	No action required.	C2	74.4	4.9
G20	Mixed shrubs	1-3 average	N/A	Refer to drawing	0 average	Young - semi-mature	Fair	Fair	Mixed garden shrubs with self set ash and sycamore saplings.	Clear area required as part of initial vegetation clearance.	C2	N/A	N/A
G21	Field maple (Acer campestre)	7-8 average	Up to 300 average	N: 4 E: 2 S: 1 W: 2	2 average	Early-mature	Good	Fair	Line of trees on opposite side of public footpath. Previously sided up over third party gardens.	No action required.	B2	40.7 average	3.6 average
G22	Hazel, blackthorn and elder	4-6 average	Up to 150 average	Up to 2 average	0 average	Semi-mature	Fair	Fair	Scrub located on opposite side of public footpath.	No action required.	C2	10.2 average	1.8 average
G23	Field maple (Acer campestre)	8 average	Up to 300 average	N: 5 E: 4 S: 1 W: 4	4 average	Over-mature	Fair	Fair	On opposite side of path. Heavily reduced over 3rd party gardens and crown lifted over path. Wounds and decay pockets on stems.	No action required.	C2	40.7 average	3.6 average
T24	Walnut (Juglans regia)	6 est	80, 100, 100 estimate	N: 3 E: 3 S: 1 W: 3	Crown: 2 average Branch: 1 average	Semi-mature	Good	Good	Self set, multi-stemmed from 1m. Within inaccessible scrub area.	No action required.	C1	11.9	1.9

APPENDIX 3

Example No-dig Road Specification



Additional sub-base may be required provided depending on CBR% rating and maximum size of vehicle expected on surface. This must be permeable and installed above ground level.