

60 Long Lane, Ickenham, UXBRIDGE, UB10 8SZ

BS5837 TREE SURVEY, ARBORICULTURAL IMPACT ASSESSMENT AND METHOD STATEMENT



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as amended January 2018
Submitted in 2 pdf files. File 2 of 2
Appendices H, I and J

File 1

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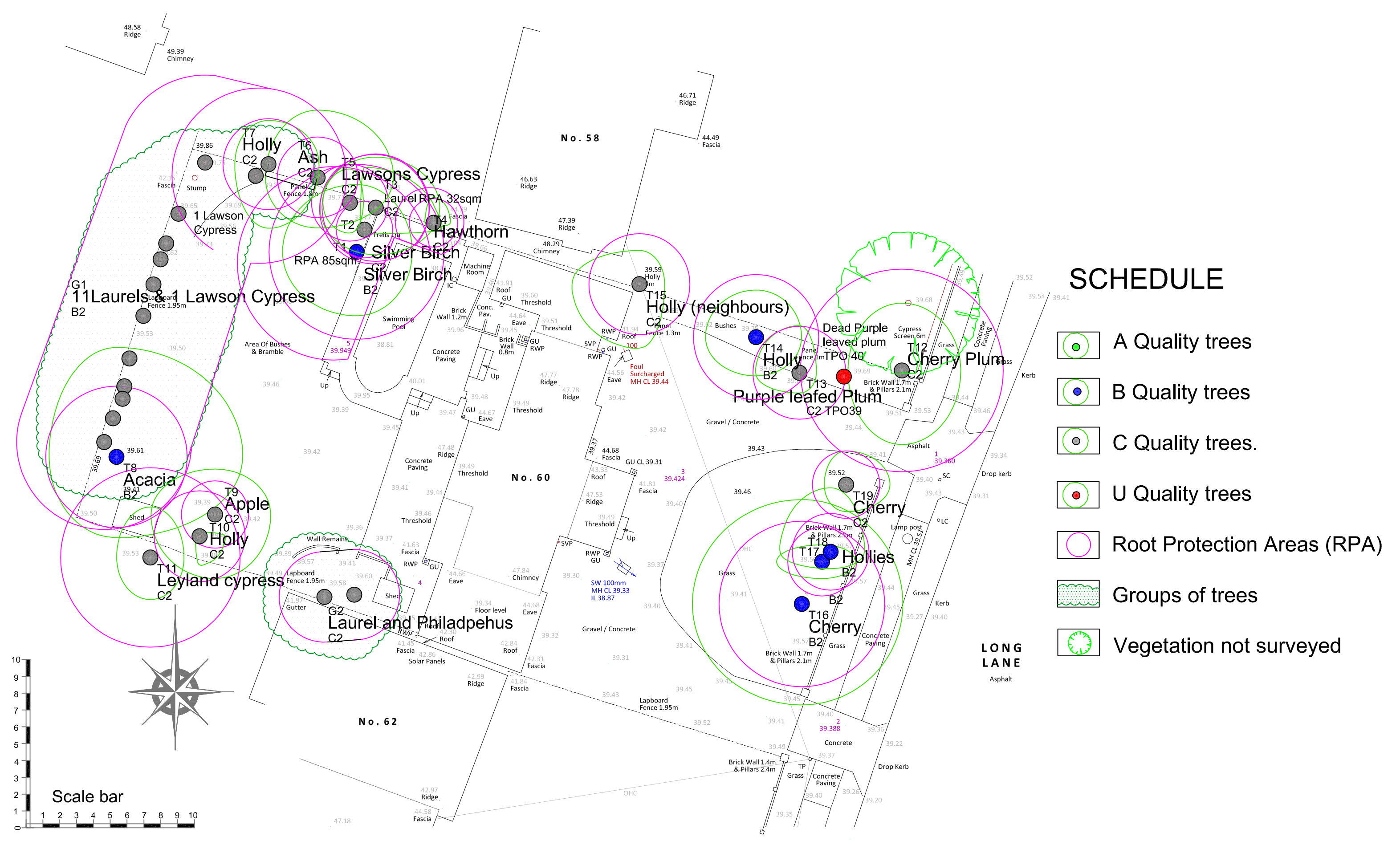
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Appendix H

Plan 746.17.1 Tree Constraints Plan



SCHEDULE

-  A Quality trees
-  B Quality trees
-  C Quality trees.
-  U Quality trees
-  Root Protection Areas (RPA)
-  Groups of trees
-  Vegetation not surveyed

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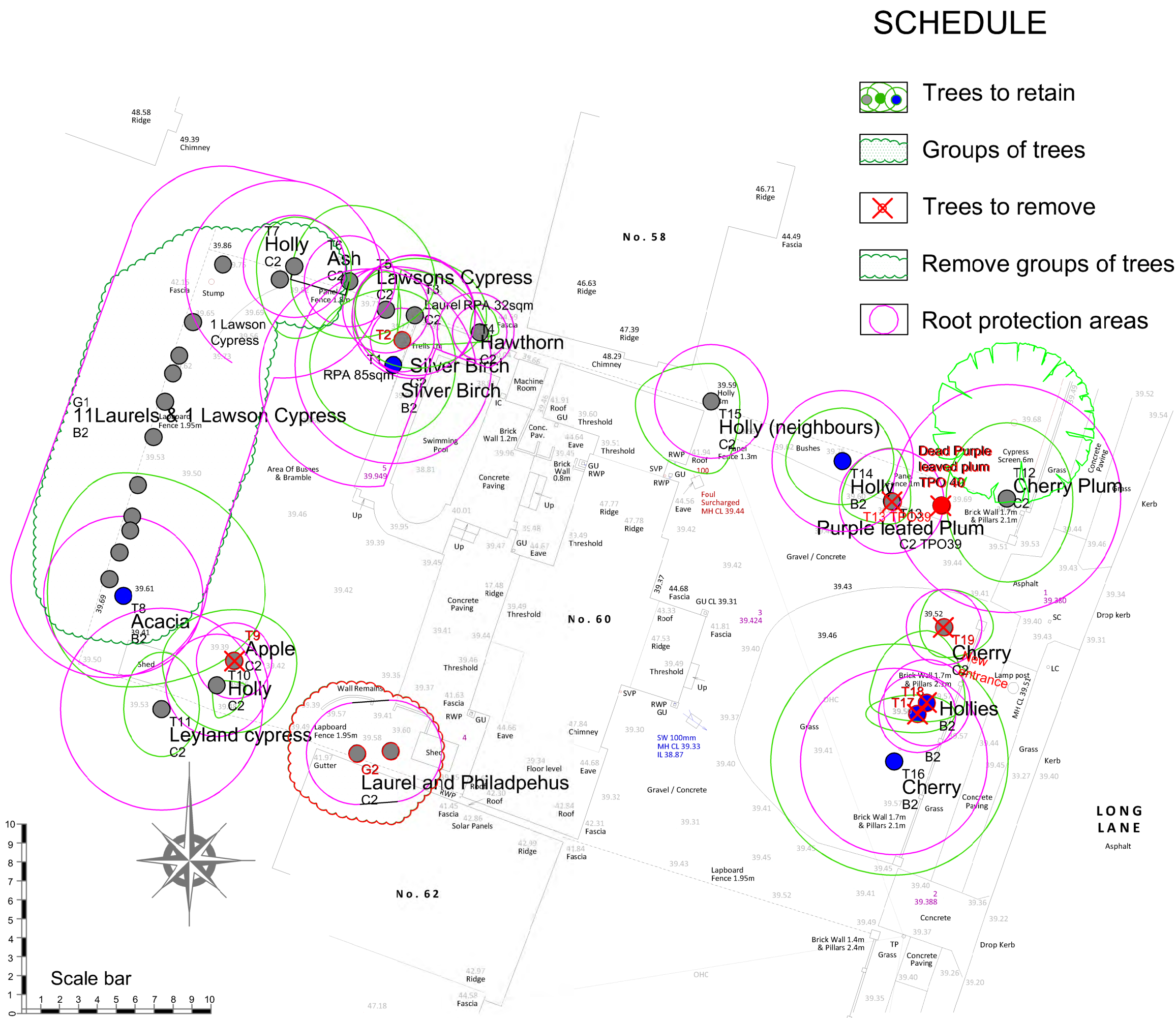


Scheme <i>60 Long Lane, Ickenham. UB10 8SZ</i>	Date <i>September 2017</i>
Title <i>Tree Constraints Plan</i>	Drawn by <i>E.J.G</i>
Scale <i>1:200 @ A2</i>	Job No <i>746.17</i>
Elizabeth Greenwood C.M.L.I., F.Arbor.A. 10 Knight Street, Sawbridgeworth, Herts, CM21 9AT. Tel 01279 722381 mobile 07746867402, email ms.ejgreenwood@gmail.com	Drng No <i>746.17.1</i> <i>Appendix H</i>

Appendix I

Plan 746.17.2A Tree Removal Plan

Tag	Tree	Category	Recommendations
T1	Silver Birch	B2	Retain
T2	Silver Birch	C2	Remove for silvicultural thinning part of Application
T3	Laurel	C2	Retain at present
T4	Hawthorn	C2	Face back to provide 1.5 metre clearance of crown to new building
T5	Lawsons Cypress	C2	
T6	Ash	C2	Monitor for ash dieback disease
T7	Holly	C2	
T8	Acacia	B2	Remove deadwood within the crown and defective branches
T9	Apple	C2	Remove
T10	Holly	C2	Cut ivy at base, retain as part of screen planting- formative pruning to improve s form
T11	Leyland cypress	C2	
T12	Cherry Plum	C2	Face back along boundary to enable access
T13	Purple leafed Plum	C2	Limited prognosis- REMOVE and replace
T14	Holly	B2	Cut Ivy face back to hard surface area to enable demolition and construction works
T15	Holly (neighbours)	C2	Cut Ivy face back to boundary to enable demolition and construction works
T16	Cherry	B2	Cut Ivy.- crown lift to 3 metre remove any deadwood and defective branches- reduce crown to 4 metre radius to ensure that there is no damage s during site works.
T17	Holly	B2	Remove as part of Application
T18	Holly	B2	Remove as part of Application
T19	Cherry	C2	Remove as part of Application or transplant
G1	Laurels, Lawson Cypress	B2	Clean out. Reduce crown to manageable dimension of a 2.5 metre spread and height of 5 metres
G2	Sapling Ash, Laurel, Philadelphus	C2	Remove as part of Application



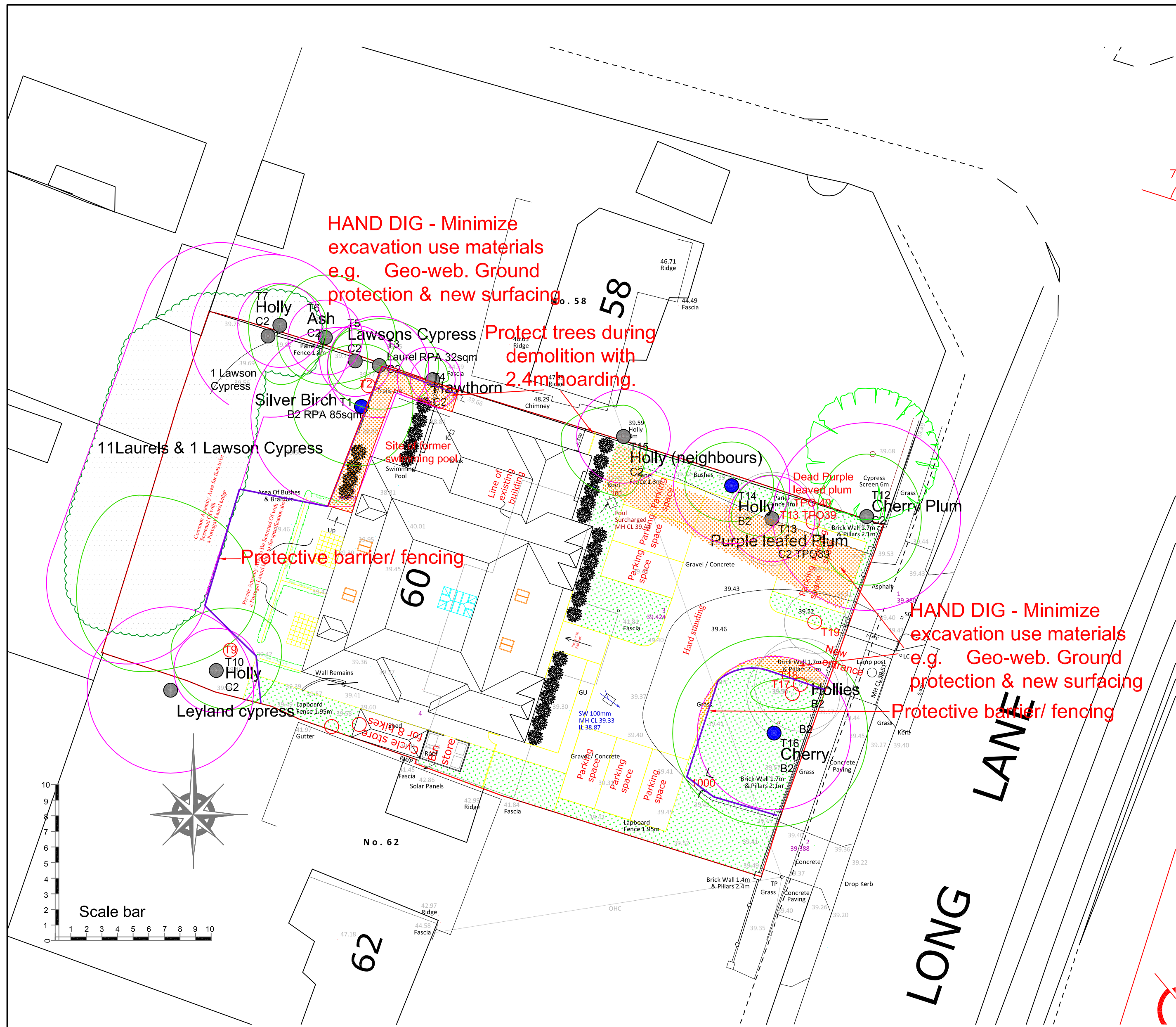
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Revision A. Amended layout Gillett Macleod Partnership drawing 17/3124/1B		Date 29.1.2018	
Scheme	60 Long Lane, Ickenham. UB10 8SZ	Date	September 2017
Title	Tree Surgery and Removal Plan	Drawn by	E.J.G
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Appendix J

Plan 746.17.3A Tree Protection Plan



SCHEDULE

- Trees to retain
- Groups of trees
- Trees to remove
- Group of trees to remove
- Root protection areas
- Protective /barrier fencing
- Protect trees during demolition with 2.4m hoarding.
- Ground protection
- HAND DIG - Minimize excavation use materials e.g. Geo-web. Ground protection & new surfacing
- Concrete mixing and storage of contaminants

Tree Protection

Protective Fencing/Protective Barrier

Details of the fencing are shown in the appendices to this report and comply with British Standard recommendations. All weather notices are to be affixed to this fencing with signage "CONSTRUCTION EXCLUSION ZONE - NO ACCESS".

Ground Protection

In the vicinity of the temporary unit working space will mainly be confined to existing hard surfacing. Where additional working space is required for construction within the root protection areas of retained trees, the British Standard specifies the following type of ground protection.

- For pedestrian movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, so as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100 mm depth of woodchip), laid onto a geo-textile membrane.
- For pedestrian-operated plant up to a gross weight of 2 t, proprietary, inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150 mm depth of woodchip), laid onto a geo-textile membrane;
- For wheeled or tracked construction traffic exceeding 2 t gross weight, an alternative system (e.g. proprietary systems or pre-cast reinforced concrete slabs) to an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected.

Storage of contaminants and mixing of concrete

This must be carried out outside the root protection areas of all trees. The ground should be protected with heavy duty plastic sheeting, e.g. 1200 gauge DPM, with edges secured and raised to prevent spillage and with a raised lip along the access point.

Demolition

- Prior to demolition the trees and hedges to be retained should be fenced off and ground protection installed within their root protection area.
- for the tree close to the building to be demolished this will be 2.4 metre high boarding
- For the trees along the drive the crown should be faced back to ensure there is clearance under the canopy to remove building materials
- All heavy machinery and demolition vehicles should be positioned within the footprint of the building.
- No material should be stored under the tree canopies
- All hard surfacing to be removed by hand with care so as not to damage tree roots, and stored outside the tree root protection areas.
- If temporary surfacing is required this should be in accordance with ground protection outlined above.

Methods of Construction for the Development

Hand dig

Hand digging will also be required for all works within root protection areas of trees, including removal of surfacing, trenches, excavation for fence post and for cultivation for soft landscape areas. All hand digging within the root protection areas of trees should be supervised by a competent arboricultural.

Within root protection areas all excavation should be hand dug. A trench should be hand dug near the trees to ascertain whether roots are present. If roots over 50mm are found these should, where possible, be bridged, and surrounded by sand- roots under this dimension should be cut to a clean cut and surrounded by sand. No roots are to be left exposed but covered with damp sand or hessian. The surface level of the path may need to be adjusted to retain these roots.

If on investigation of the hand dug trench there are no roots present mechanical excavation may be possible if a banksman is supervising the excavation to ensure that if roots are unearthed they can be protected and clean cut and surrounded by sand. Hand digging may need to be resumed to complete the excavation.

This would include exploratory excavation by hand for the foundations of the paths and new hard surfacing within the root protection area of the trees.

Surfacing within the Root Protection Area

Minimizing excavation within the root protection area by removing surfacing herbage and laying a geo-textile to stabilize the ground.

- Infill any irregularities with 50mm sharp sand
- On this lay a geo web, depth to be specified by the supplier to accommodate the proposed weight load.
- This will be filled with no fines gravel / stone 20-40mm
- Lay final wearing surface on top of this base- for example permeable paving or porous tarmac.
- Use timber edging to avoid excessive excavation to facilitate haunching of edging.

Location of Underground Services

All drainage and below ground services will be designed to avoid tree protection zones. If there is no alternative but to site these within the root protection area of trees, then trenches excavation should be hand dug and comply with 'Hand dug' as outlined in section 5.1 or the NJUG regulations

Remedial works and soil improvement

This will be application within the footprint of the outbuilding to be demolished. Exposed soils are easily compacted resulting in loss of water and gaseous exchange and leading to root deaths. To relieve ground compaction, which may have resulted from the overrun of vehicles or by storage of materials, the clay soils should be broken up to allow air to penetrate and for the soil structure to be restored.

Arboricultural method

Pre construction

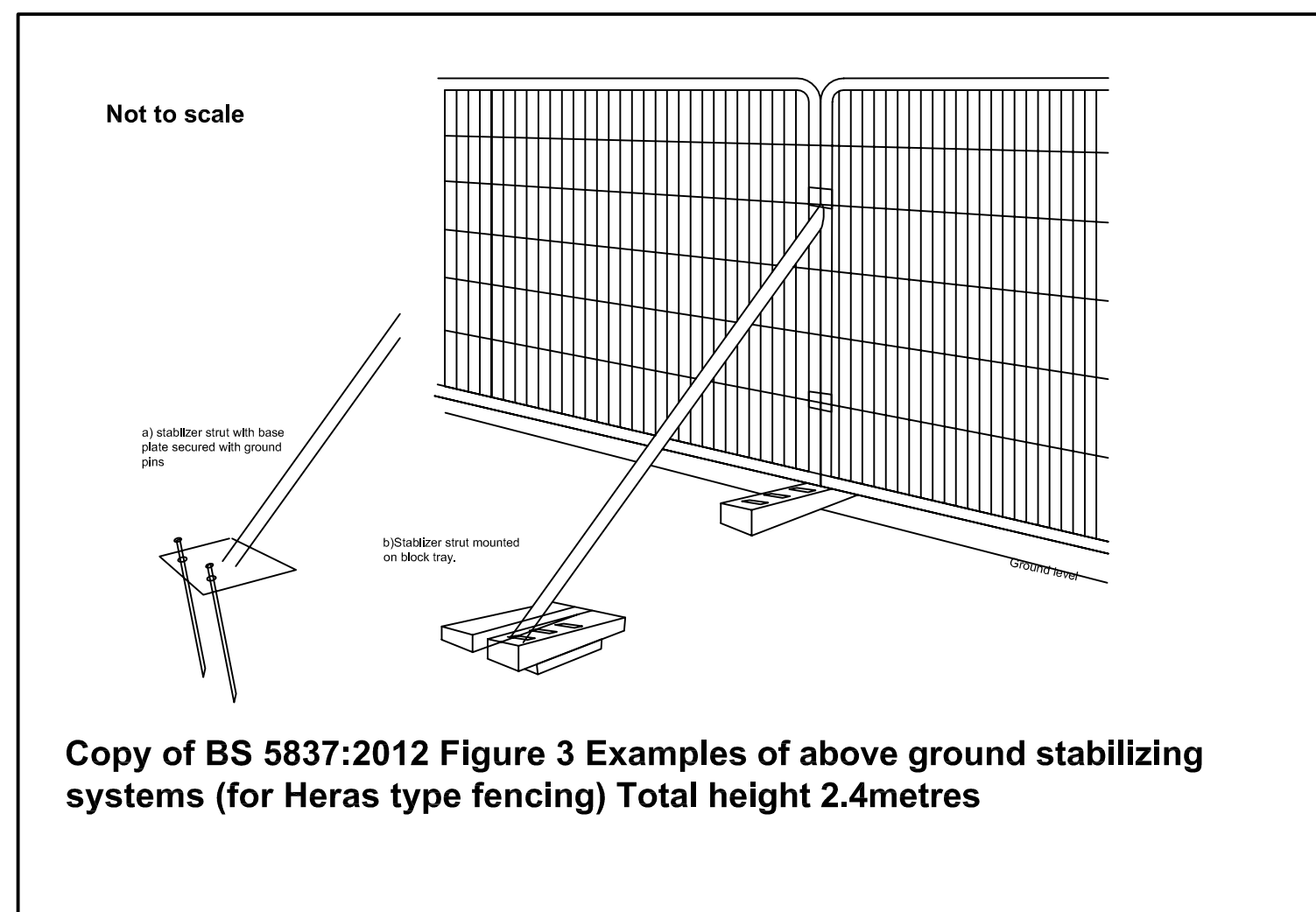
- Carry out tree removal and tree surgery and listed
- Fence off all trees to be retained prior to demolition and site work
- Provide and insert ground protection for the duration of construction works
- Carry out demolition and site clearance
- Set up site working area

Construction

- Carry out construction
- Had dig for extension of hard surfacing within the RPA of tree, minimize excavation of the foundation by use of Geo-web type construction
- For new surfacing insert ground protection as above for use of site works

Post completion

- On completion of works remove protective fencing and ground protection
- Carry out remedial works as listed prior to landscape works
- Carry out landscape works



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