

aligned N-S or E-W.

BS 5837 Root Protection Area (radius = 12xstem diameter

Root Protection Area needing amendment due to site

Root Protection Area having been amended to account

conditions, e.g. presence of exising road or building.

T1 = Tree No 1  $G_2$  = Group No 2  $H_3$  = Hedge No 3

for for site conditions

Drawing No:	CCL 11795	/TCP Rev: 2	
Title:	Tree Constraints Plan (Existing Layout)		
Site:	10 Park Village Wes NW1 4AE	t	
0 	5	10m	

CROWN Arboricultural Consultants
01422 316660 Category U tree

Category C tree

Tree Retention Categories Stems & canopies shown Category A tree Category B tree

Trees of high quality with an estimated life expectancy of 40+ years Usually large trees with significant presence or smaller trees with excellent form. Retention of these trees is highly desirable. ees of moderate quality with a life expectancy of 20+ years. Usually maturing trees, or younger trees with good form. Retentio of these trees is desirable though less than Category A trees

Trees unsuitable for retention due to their very poor condition.

nremarkable trees of low quality and merit. Individual specimen

Tree Constraints Plan

Status: Final

#### Overview

It is proposed to extend the rear terrace and construct a new garage to the South of the dwelling, as indicated on the drawings in Appendix 4. The existing layout is indicated in black, the structures to be demolished are indicated in blue, and the footprint of the proposed layout is indicated in red.

The table below summarises the potential impact on trees due to various activities

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Activity	Trees Potentially Affected
Tree Removal: Retention Category A	None
Tree Removal: Retention Category B	None
Tree Removal: Retention Category C	T5, T6, the 4m tall acer and the 5m tall apple.
Tree Removal: Retention Category U	None
Tree Pruning	None
RPA: Garage Foundations	T1, T3, T7 and T8
RPA: Air Source Heat Pump	T1 and T8
RPA: Timber Fence Foundations	T1, T7 and T8
RPA: Terrace Extension	G18 and T19
RPA: New Hard Surface	None
RPA: Underground Services	None Anticipated
RPA: Change of Ground Levels	None
RPA: Soil Compaction	Trees adjacent the construction area (preventable by installing tree protection measures)

Other potentially damaging activities often associated with construction sites include demolition or the careless use of plant machinery, hazardous materials, or fires. All of the above potential impacts are considered in detail throughout this Section.

#### Tree Removal

To enable the development, it is proposed to remove four Retention Category C trees. The trees to be removed are specified in the above table.

None of these trees are considered to have significant landscape value so the impact on local amenity levels shall be minimal.

**Tree Pruning** 

The retained tree canopies are sufficiently far from proposed building works and high over access routes so that they should not be impacted by construction activity. Consequently, no pruning works are required to enable the build.

### Impact of Foundations

The table below assesses the impact of proposed foundations in Root Protection Areas:

Tree No	Nature of Foundation	Portion of RPA	Proposed Mitigation
T1 and T8	Heat Pump	Circa 3%	None (impact shall be minimal)
G18 and T19	Terrace Extension	Circa 5%	<ul> <li>Hand-Dig Method</li> <li>In the direction of the trees, excavation not to exceed 250mm beyond the build-line.</li> <li>Hand tools to be used to a depth of 600mm.</li> <li>Plant machinery may be used at deeper depths.</li> <li>Operation to be supervised by the project arborist.</li> <li>Exposed roots over 25mm diameter shall be retained and protected with damp hessian if practicable, else pruned by the arborist.</li> </ul>
T1, T3, T7 and T8	Garage	<15%	<ul> <li>Shallow Raft or Beam Foundation Method</li> <li>In the direction of the trees, excavation is not to exceed 250mm beyond the build-line.</li> <li>Excavation depth for raft or beam not to exceed 300mm.</li> <li>Hand tools to be used to excavate.</li> <li>Excavation to be supervised by the project arborist.</li> <li>Exposed roots over 25mm diameter shall be retained and protected with damp hessian if practicable, else pruned by the arborist.</li> <li>RC Raft or beam installed. This may be supported by narrow diameter piles (max 300mm diameter).</li> <li>Trial pits excavated to determine pile locations. All roots over 25mm diameter to be retained intact and pile relocated.</li> </ul>
T1, T7 and T8	Timber Fence	Circa 1%	<ul> <li>Trial Pit and Post Hole</li> <li>Post holes not to exceed 400mm x 400mm (unlimited depth)</li> <li>Excavation for the post holes should be undertaken using hand tools.</li> <li>Roots in excess of 25mm should be retained, and the post hole relocated.</li> <li>Smaller roots to be neatly pruned.</li> <li>Post hole to be sleeved with heavy-duty bin liners to preven leaching of cement into the soil.</li> </ul>

These measures are in accordance with industry best practices<sup>4</sup> and shall ensure minimal impact on roots.

## **Demolition Activities**

Care is required to avoid damaging trees when removing adjacent structures. Structures must be demolished away from stems and in a manner that doesn't damage branches. Removal of underground foundations requires extra special care to avoid root damage. During the implementation of this project, the following activities require special care:

- Removal of the raised flowerbeds close to G18 T20.
- Removal of the wall close to T7.

## Impact of Retained Trees on the Development

Adequate space has been allowed between retained trees and the proposal. Consequently, the proposal shall not result in increased pressure to remove or overly prune any of the retained trees.

The garage is not considered to be a residential living space, so the shade cast by trees is not considered relevant from a planning perspective. The foundations and any new surfaces should be designed to accommodate all potential impacts due to

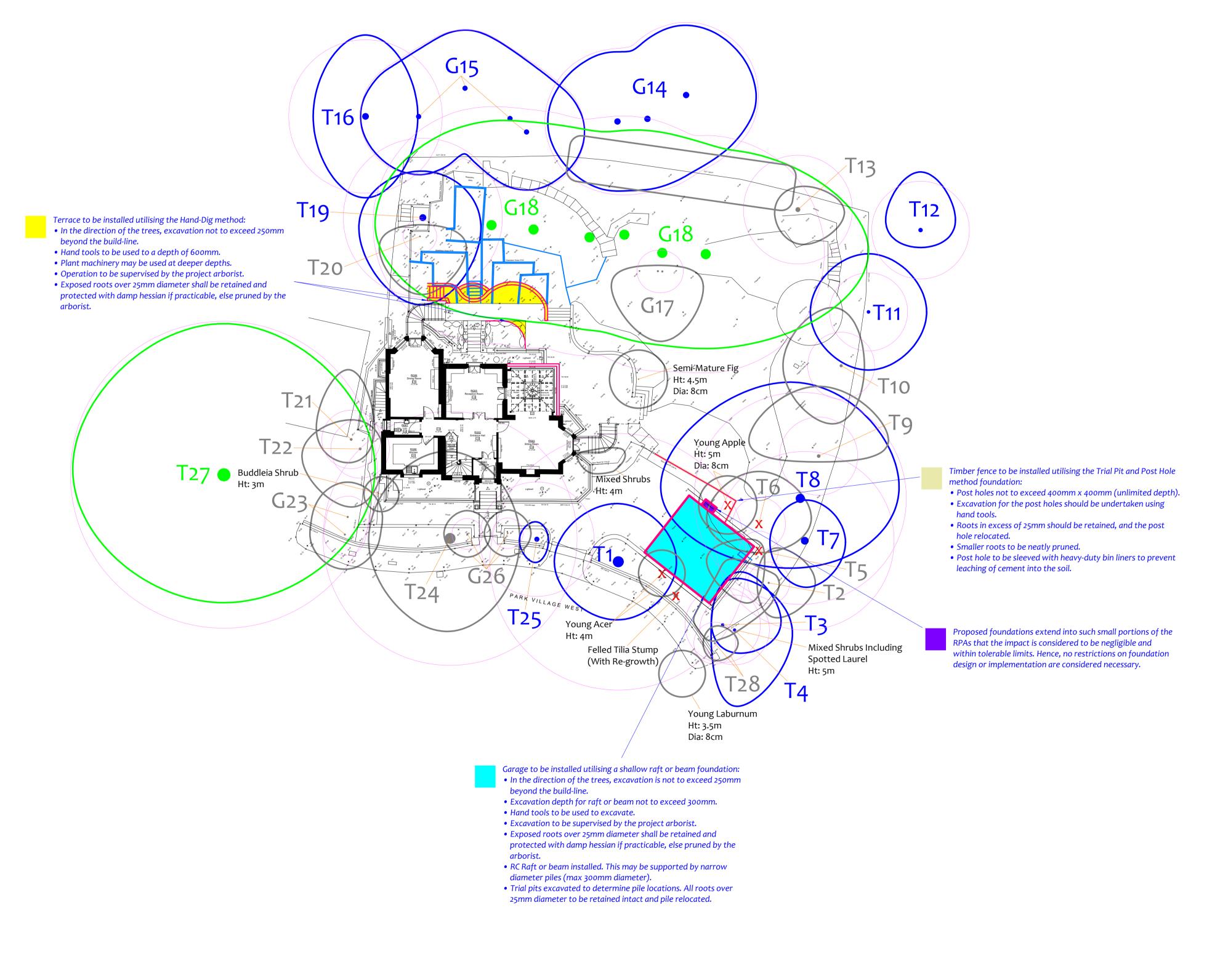
future tree-rooting activity. These include potential vegetation-related subsidence, vegetation-related heave, and lifting of surfaces / light structures due to direct root pressure.

# **Arboricultural Method Statement**

BS 5837 recommends that a detailed methodology is agreed upon in the form of an Arboricultural Method Statement, which shall ensure that trees are well protected during the construction phase. This should detail all tree protection measures and limitations on construction activity. <u>All of</u> the issues raised within this Impact Assessment should be covered by the Method Statement.

# Proposed Layout (Pink)

To be Demolished (Blue)





CROWN

Category A tree Category U tree

Tree Retention Categories Stems & canopies shown Category B tree Category C tree

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Status: Final - for submission

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T1 = Tree No 1		1		

MN = Measured North: Canopy spreads are sometimes T22 Cherry Tree to be removed to defined by site features. facilitate the proposal Often more accurate, especially T24 Oak Tree to be removed where rows of trees are not due to its low quality aligned N-S or E-W. Proposed pruning



3.2 33 5.7

1.8 10 3.2

Honey-locust

Honey-locust

Honey-locust

Broadleaf

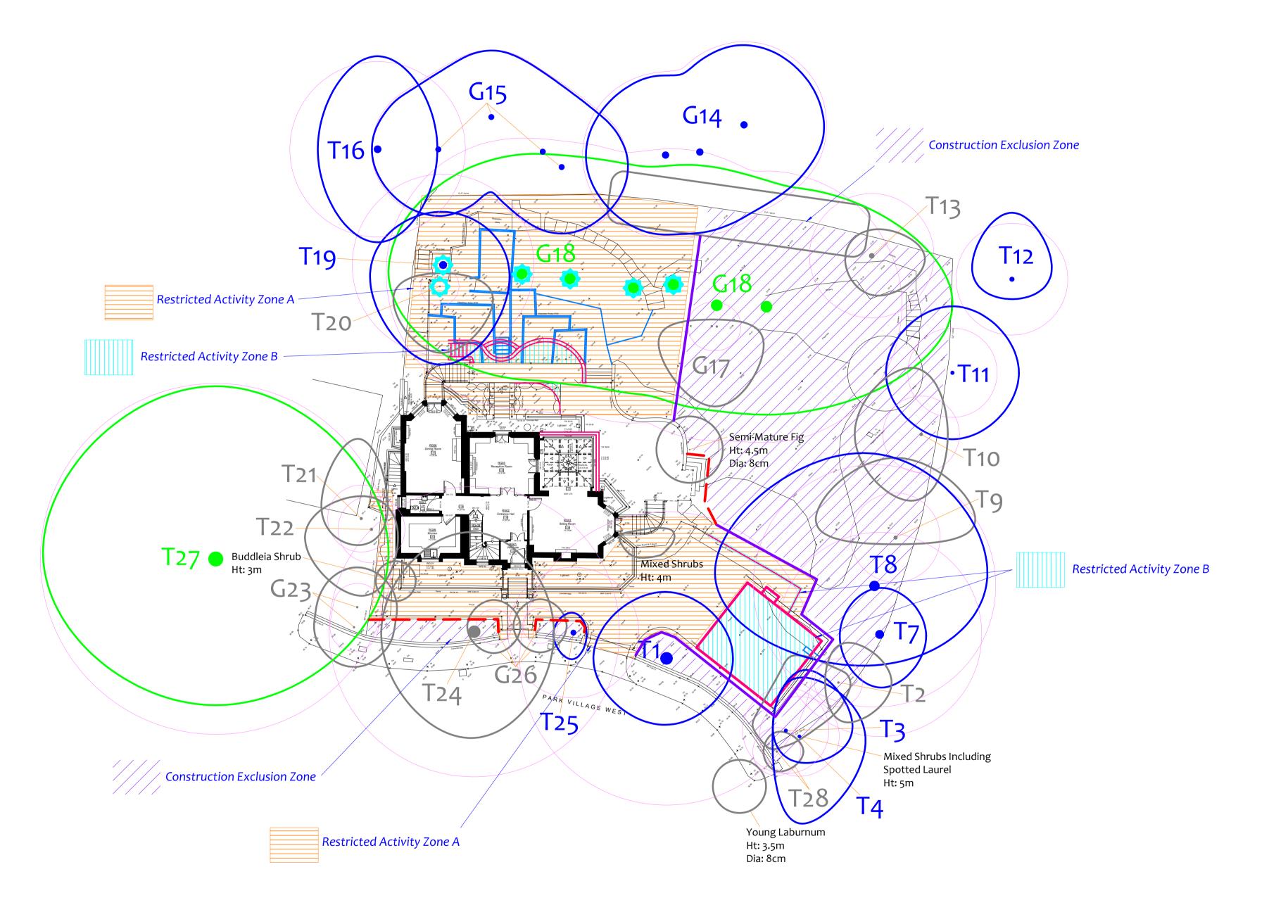
Purple Plum

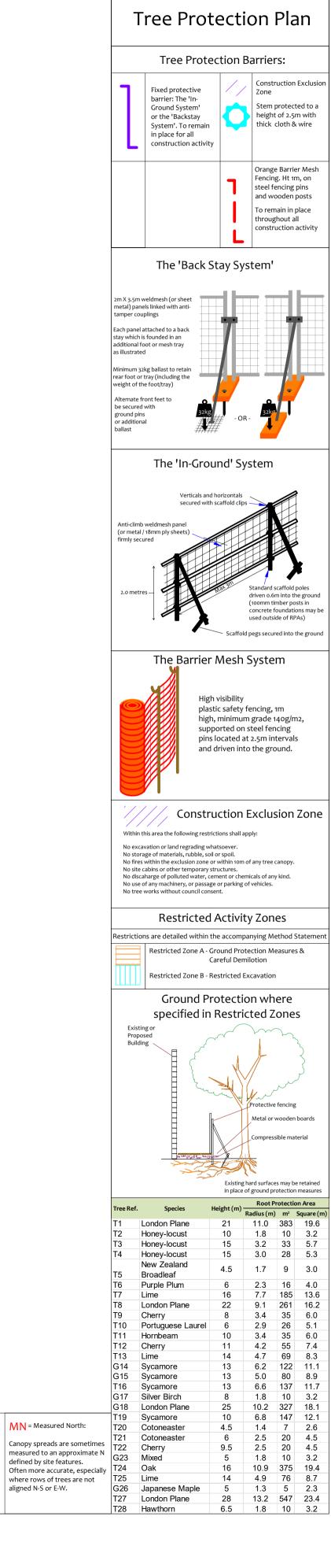
New Zealand

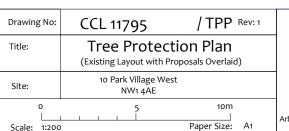


# Proposed Layout (Pink)

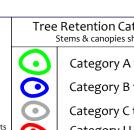
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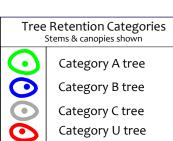


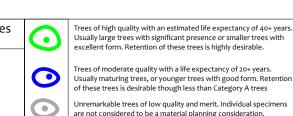












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