

**DO'S**

**TREE PROTECTION**

**DON'TS**

Trees add value to the site, provide shade, improve habitat, improve air quality and are typically protected as part of any planning approval, so their protection is in everyone's interest to avoid costly stoppages and damage.

**TREE ROOTS**

Spread out a lot further than the branches over a large area and are usually found close to the surface of the soil, making them susceptible to damage.



To help trees survive any proposed changes a minimum amount to undisturbed rooting area needs to be protected or provided to help the tree feed itself and survive this can easily be done by creating a Construction Exclusion Zone. These are normally detailed on a Tree Protection Plan or detailed within an Arboricultural Method Statement. Please look at these before you start work to understand what fencing and ground protection are to be used where.



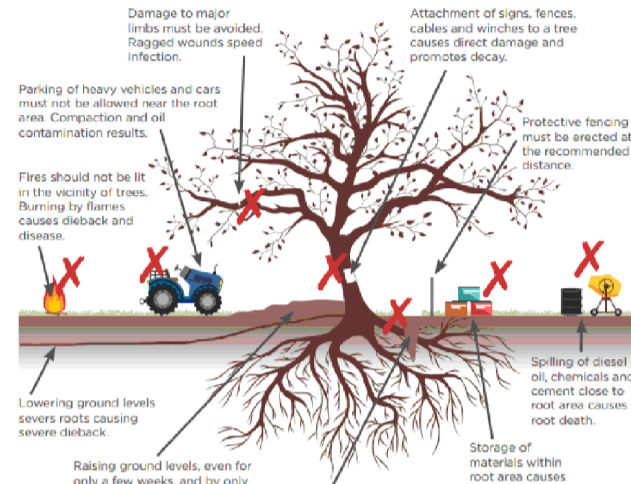
- Tree Protection is not a puzzle, everything you need is on the Tree Protection Plan or can be found in the Arboricultural Method Statement.
- Before work starts erect and maintain the correct fencing and ground protection.
- Tree protection is usually a planning condition and breaches can result in a stop notice, prosecution or fines.
- Tree damage can be avoided, if in doubt ask for help.
- Help avoid costly shut downs and financial penalties.

**TREES ROOTS**

Many people believe tree roots extend as deep as the tree is high, or simply plug into the ground like a carrot, which is untrue.

**We must all avoid any unauthorised damage to trees.**

The use of properly positioned protective fencing can prevent tree deaths occurring.



**RESULTS OF BREACHING THE CEZ**

- Soil Compaction** Starves roots of oxygen and nutrients and increases water run off the site.
- Excavation** Cuts or damages the roots, which can affect a trees health or stability.
- Turf or Soil Removal** Even shallow excavations can remove or damage fine feeder roots.
- Canopy/Branch Damage** Limits food production and encourages pest or disease.
- Chemical Spill Including Cement** Kills roots, starving the tree oxygen, water and nutrients.
- Fires** Scorch and burn leaves, stems and branches.

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**NOTES** - Where tree works are proposed to on site or to overhanging vegetation to enable construction, this shall be undertaken by qualified tree surgeon in accordance with the requirements of BS3998:2010, prior to the installation of Protective Fencing.

Existing tree's & vegetation on the site boundaries or overhanging the boundaries from the adjacent land which are to be retained shall be protected where necessary during works by 2300mm high mesh panel (Heras type) fencing secured to a scaffold tubing framework or supported on a suitable base pinned into the ground and connected by none tamper fixings.

Protective fencing shall be erected outside the canopy drip-line or beyond the minimum Root Protection Area (RPA) distance, detailed in the Tree Survey wherever possible. The tree works & fencing works shall be carried out prior to any demolition, groundworks, construction works.

Laminated, waterproof A4 signs shall be fixed to the fence posts at 10m intervals bearing the words 'CONSTRUCTION EXCLUSION ZONE - NO STORAGE OR OPERATIONS WITHIN FENCED AREA as per the example on the plan.

**PROTECTION OF CONSTRUCTION EXCLUSION ZONE**

Inside the exclusion area of the fencing, the following prohibitions shall apply: -

- No mechanical excavation whatsoever.
- No excavation by any other means without arboricultural site monitoring.
- No hand digging without a written Method Statement approved in writing by the Project Arborist.
- No lowering of levels for any purpose (except removal of grass sward using hand tools).
- No construction of a sealed hard surface - except where agreed with the Project Arborist.
- No storage of plant or materials.
- No storage or handling of any chemical, including cement washings.
- No vehicular access.

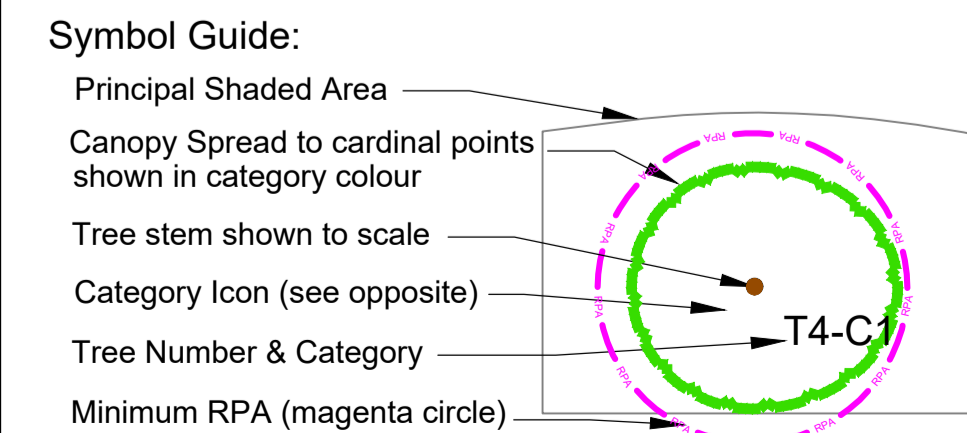
No fire lighting. In addition to the above, further precautions are necessary adjacent to trees: -

- A 10m separation distance shall be observed between any tree and substances injurious to tree health, including fuel, oil, bitumen, cement (including cement washings), builders' sand, concrete mixing and other chemicals.
- No fire shall be lit such that flames come within 5m of tree foliage; this shall be taken to mean a fire separation distance of 20m from any tree's canopy.

ALL WORKS AFFECTING TREES SHALL BE SUBJECT TO THE REQUIREMENTS OF BS5837:2012.

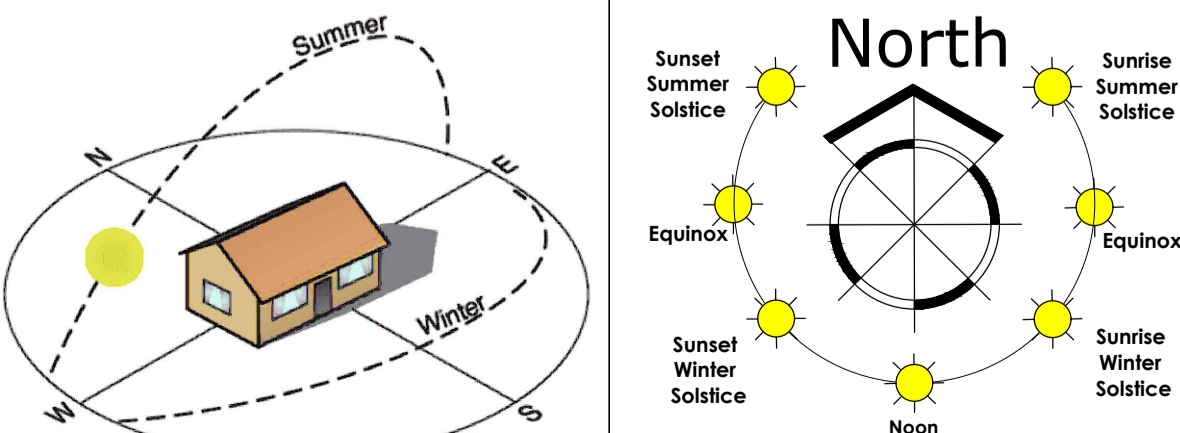
This plan is based upon the supplied Topographical Survey. It should be viewed in COLOUR a monochrome copy should not be relied upon. Please do not scale form this drawing. All dimensions should be checked on site, any errors or divergences should be brought to the attention of Barnes and Associates Ltd. Copyright of Barnes & Associates Ltd. All right described in Chapter IV of the Copyright, Design & Patents Act 1988 have been generally asserted © 24/09/2020. Copyright of this plan remains with Barnes Associates Ltd until all fees are paid in full.

**Symbol Guide:**

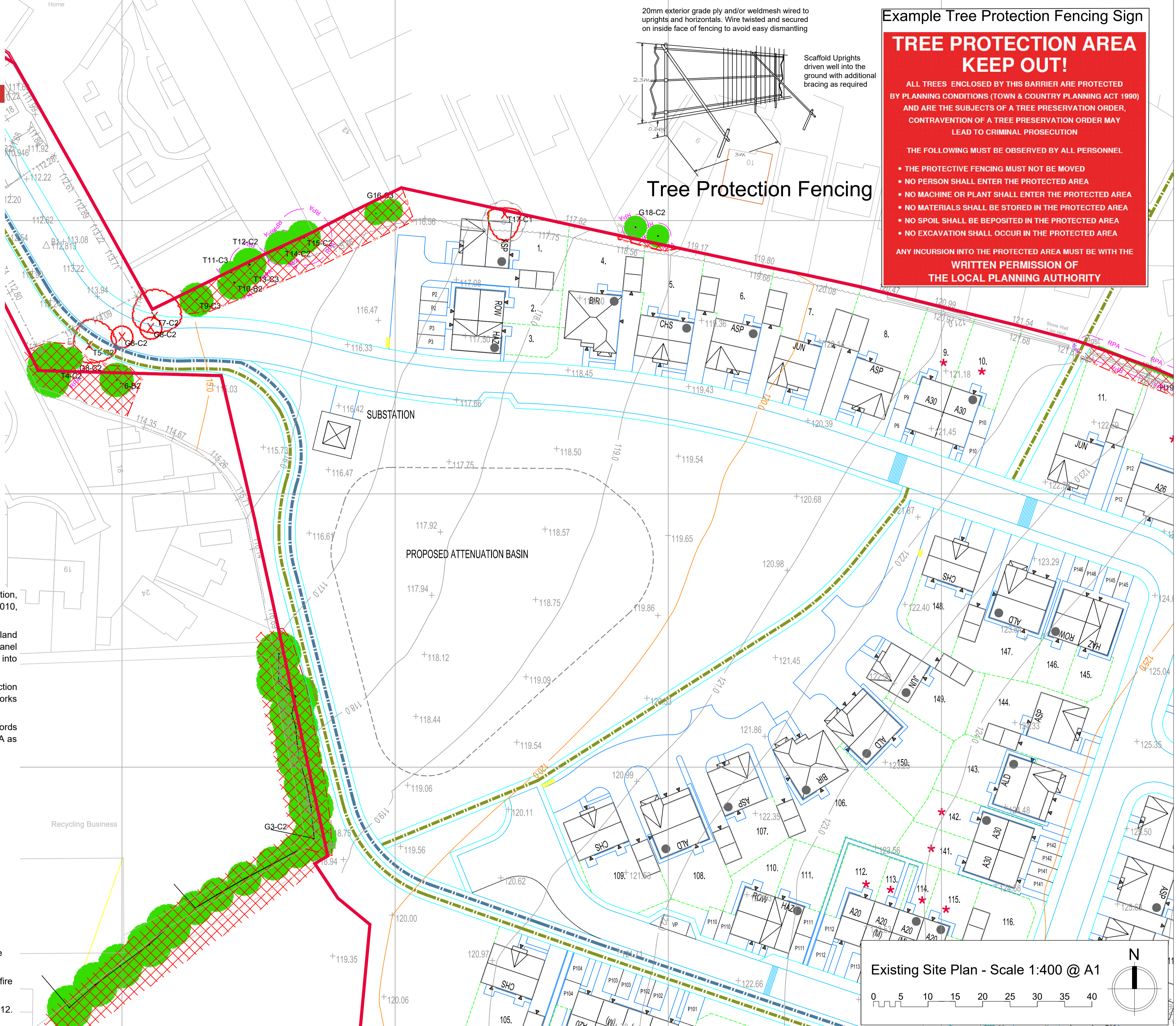


- TPF** Tree Protection Fencing (TPF). Fencing types will need to reflect the level of forecasted intensity.
- CEZ** Construction Exclusion Zone (CEZ) These are 'NO-GO ZONES' for site works and these will be protected by appropriate Fencing and/or ground protection. These areas shall be identified with signage.
- TPZ** Tree Precautionary Zone - (TPZ) These shall be appropriately protected before the start of the works to limit excavation, root loss or damage of the underlying soils.

**Indicative Sun Path**



Client: **Vistry Homes**  
Drawing Title: **Tree Protection Plan**



**Example Tree Protection Fencing Sign**

**TREE PROTECTION AREA KEEP OUT!**

ALL TREES ENCLOSED BY THIS BARRIER ARE PROTECTED BY PLANNING CONDITIONS (TOWN & COUNTRY PLANNING ACT 1990) AND ARE THE SUBJECTS OF A TREE PRESERVATION ORDER, CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION

THE FOLLOWING MUST BE OBSERVED BY ALL PERSONNEL

- THE PROTECTIVE FENCING MUST NOT BE MOVED
- NO PERSON SHALL ENTER THE PROTECTED AREA
- NO MACHINE OR PLANT SHALL ENTER THE PROTECTED AREA
- NO MATERIALS SHALL BE STORED IN THE PROTECTED AREA
- NO SPOIL SHALL BE DEPOSITED IN THE PROTECTED AREA
- NO EXCAVATION SHALL OCCUR IN THE PROTECTED AREA

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY

**Location Plan: NTS**

**Site Address:**  
Land off Northmoor View  
Birmingham  
S43 1NN

<b>Prevailing Wind Direction:</b>	Winds in this area are typically from the West and south west.
<b>Exposure:</b>	The site is exposed to the prevailing wind.
<b>Date of Survey:</b>	09/09/2020
<b>Weather Conditions:</b>	Warm and sunny - Good Visibility
<b>Site Description:</b>	The site is a agricultural field.
<b>Tree Population:</b>	The trees on site are mostly Hedgerow or boundary trees.
<b>Legislative Protection:</b>	Chesterfield Borough Council website does not have interactive mapping of preservation order or conservation areas however it appears that the site is not part of Birmingham Conservation Area.
<b>Soil Type:</b>	Information of the National Soils Resources Institute, which refers to the soils being on the site being on the border between 'Freely draining slightly acid loamy soils' (East) and 'Slowly permeable seasonally wet acid loamy and clayey soils' (West).

<b>Drawing No:</b>	BA10077TPP-W
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