

**Notes**

Do not scale off drawing - refer to the tree data schedule for accurate crown spread measurements.

Depictions of tree canopies are based on measurements taken to four cardinal compass points.

No liability of any kind is accepted for any omissions or inaccuracies in respect of this plan.

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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 of 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.

**DO'S**

- Tree roots to be protected by a protective zone.
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**TREE ROOTS**

Spread out a 10' further than the branches over a large area and see cavity found close to the surface of the soil, making them susceptible to damage.

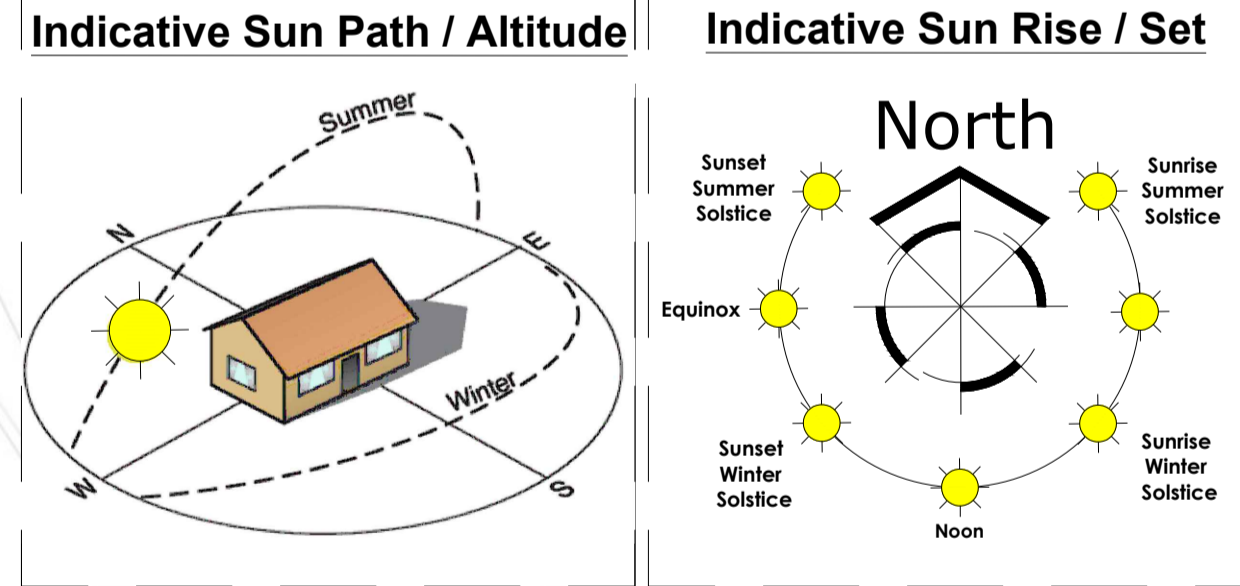
**DO NOT'S**

- Many people follow the tree roots which are deep as the tree is high, or simply dig into the ground line the soil of the tree, which is not acceptable.
- We must avoid any unauthorised damage to trees.
- The use of temporary construction protective fencing can prevent tree deaths occurring.

**RESULTS OF BREACHING THE CEZ**

- Soil Compaction: Stresses roots of saplings and seedlings and can cause them to die.
- Excavation: Can be damaging to the roots, which can affect tree health or stability.
- Turf or Soil Removal: Removing the roots, which can affect or damage the tree's health.
- Construction: Can remove or damage the tree's health.
- Chemical: Can be damaging to the tree's health.
- Fire: Can be damaging to the tree's health.
- Tree Pruning: Can be damaging to the tree's health.

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**Tree Pruning-T4**  
The tree requires removing however the canopy may be removed to retain a standing stem of 5m for ecological benefit.

**Tree Pruning**  
Crown lift to 5m above the proposed highway limiting wound size to 50mm removing deadwood over 40mm and any other dangerous branches.

R=10m  
R=2m

**BS5837:2012 Tree Categories**

- Category A: Trees of high quality with an estimated remaining life expectancy of at least 40 years. Groups shown as halved shapes.
- Category B: Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. Groups shown as halved shapes.
- Category C: Trees of low quality with an estimated remaining life expectancy of at least 10 years or young trees with a stem diameter below 100 mm. Groups shown as halved shapes.
- Tree groups: Shown as dashed centre line. Colour represents category (see above).
- BS 5837:2012 Root Protection Area
- Tree Showing Canopy extent, category colour and tag number (see category).

**Tree Protection Methods**

- Tree Protection Fencing (TPF): Indicated by the red line. Fencing designs will need to reflect the expected size of stumps and the level of forecasted intensity of change.
- Construction Exclusion Zone (CEZ): Indicated by the red dot marking. These are 'NO-GO ZONES' for site works, storage and operations. To be protected by appropriate Fencing and/or Ground Protection. These areas shall be identified with signage.
- Tree Precautionary Zone (TPZ): Indicated by blue shading. Tree root activity is likely in these areas and will need to be appropriately protected before the start of the works. Materials and methods need to limit excavation, root loss or damage to soils.

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Client: **Keepmoat**

Project: **Land off Keresforth Road, Dodworth**

Drawing Title: **Arboricultural Impact Assessment - C**

