



Tree Hazard Assessment

Prepared for:

Meadfleet Ltd, Unit 2,
Meadway Court, Meadway
Technological Park, Rutherford
Close, Stevenage, Hertfordshire,
SG1 2EF.

By:

Arborcare
Unit N, Shangri-La Farm
Todds Green
Stevenage
Hertfordshire
SG1 2JE

Site:

Magenta Site Number: 241
Woodburn Gardens
Barnsley
S73 8HA



Location: Magenta, Woodburn Gardens, Barnsley, S73 8HA.	Arborcare Ref: 7962
Client: Meadfleet	Client Ref: Magenta 241
Survey Inspector: Brian Cole	Date of Inspection: 06/12/2022
Document Prepared by: Brian Cole	Date of Submission: 15/01/2023

Local Authority: Barnsley Metropolitan Borough Council	
Tree Protection Status:	It is understood the site and its grounds are not located within a Conservation Area. The trees are protected by a Tree Preservation Order (TPO).

Instructions: Issued by Samantha Hursey on 10 th October 2022.
Terms of Reference: To survey the trees located at the above site as per the edged red plan provided, to assess their general condition from ground level in accordance with the Meadfleet's Tree Management Policy 2017 version 1.



Survey Summary

Tree Category:	Number on Site:
Individual Tree	7
Group of Trees	11
Woodland	Nil

Work Summary

High Priority Work	Tree Number:
Requires felling	T14, T15, T16, T17, T18
Requires remedial pruning	Nil

Moderate Priority Work	Tree Number:
Requires felling	Nil
Requires remedial pruning	Nil

Low Priority Work	Tree Number:
Requires felling	Nil
Requires remedial pruning	T04, T12



Target Zones/Zone usage

The target/usage evaluation for each site would be created using the criteria formulated in the table below. A brief description of each category has been provided.

Zoning Category	Property (repair or replacement costs)	Pedestrian Frequency	Vehicular Frequency
High	Very high value ranging from £15,000- £1,000,000	10 per hour – constant flow	Any UK highway from designated B roads - motorways
Moderate	Moderate value ranging from £1,000- £15,000	< 10 per hour- 1 per day	Unregistered road or track
Low	Low value >£1,000	< 1 per day – None	No vehicle access

Property

The target structure would firstly be assessed (form a lay person perspective) to determine if it would withstand the impact of the failed tree or branch and be occupied. In this event the zone would be classed as high. If users or occupiers are not likely to be affected, the approximate cost of the property repair or replacement would be considered.

Pedestrian

The potential for pedestrians to be occupying a zone is calculated on the basis that a pedestrian will spend, on average, five seconds passing beneath an average tree, unless a longer occupation is likely as with a habitable structure or seating.

Vehicular

For ease a simplistic approach is taken, where any designated highway is instantly regarded as a high usage/target zone. In the case of vehicles, the potential impact may relate either to the tree striking the vehicle or to the vehicle striking the fallen part.



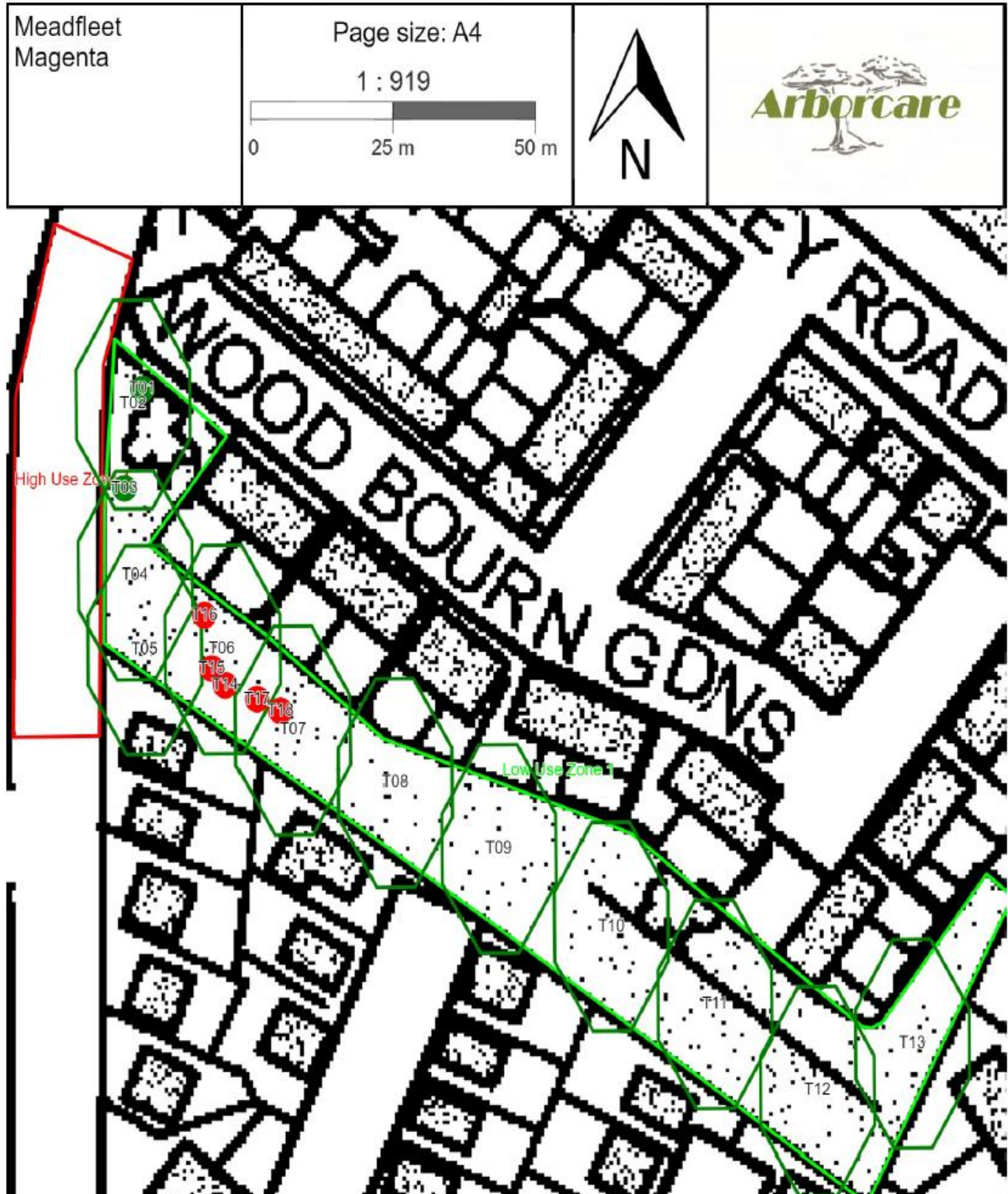
Work Priority

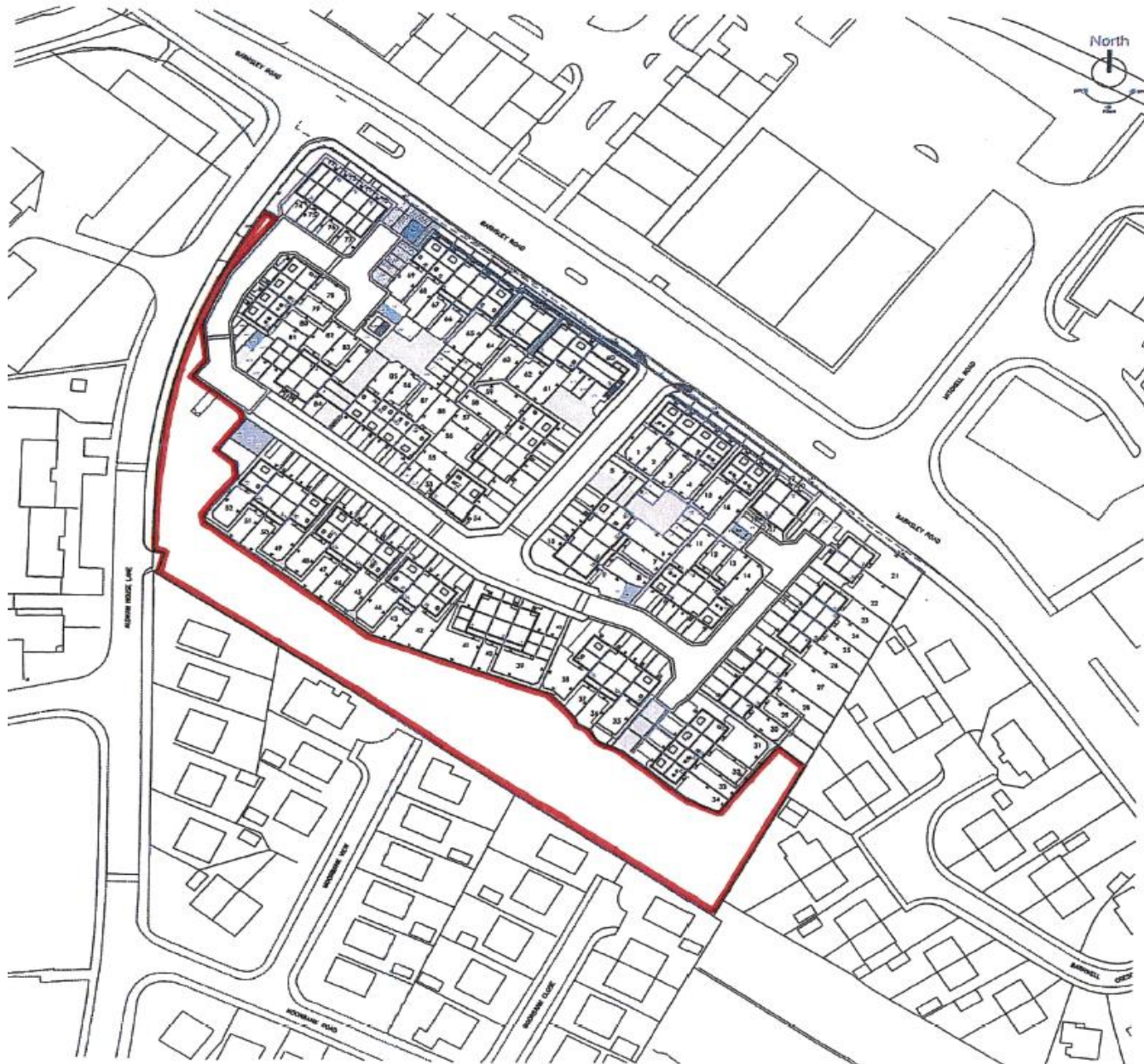
All work highlighted within the surveys will be allocated a priority rating dependant on the trees location and condition. The table below provides details of these categories.

<u>Tree Works Priority Guide</u>	
Priority	Type of maintenance that normally fall into each priority band.
<p>Priority 1 – Urgent public safety work</p> <p>Following inspection the tree(s) require(s) urgent maintenance work to make its current condition acceptable.</p> <p>Target completion – Work that should be completed as a matter of priority to minimise the risk of injury or property damage.</p>	<p>Dead, dying and diseased trees in high pedestrian and traffic flow areas</p> <p>Trees that pose imminent danger to people or property</p> <p>Deadwood in high usage areas</p>
<p>Priority 2 Non urgent, but essential safety work</p> <p>Following inspection the tree(s) require(s) Non Urgent but essential maintenance work to resolve safety issues identified during inspection.</p> <p>Target completion – Work of a moderate priority should be undertaken as a part of a programmed maintenance.</p>	<p>Tree branches below 2.5mtrs over high pedestrian flow footpaths</p> <p>Tree branches below 5.2mtrs over high traffic flow roads</p> <p>Tree branches causing damage to property</p> <p>Deadwood in moderate usage areas</p>
<p>Priority 3 – Non essential, but desirable work</p> <p>Following inspection the tree(s) is identified as requiring non-essential maintenance work. Due to the nature of the work identified it will only be completed as resources allow.</p> <p>Target completion – Work of low priority usually recommended for aesthetics or good arboricultural practise, rather than risk management. To be undertaken if resources allow.</p>	<p>All other general tree maintenance work that is causing no risk of harm to people or property.</p>



OS Map 1: Site









0241 Magenta, Wombwell





The Estate shown edged red on this plan is provisional and may be amended by the developer at Land Transfer

 Meadfleet maintained areas







Ref.	Tag	Species	Variety	Target	Age	Height (m)	Structural Condition	Vitality	Life Expectancy	Observations & Defect Assessment	Recommendations	Priority	Photo
T01	825	Silver Birch (<i>Betula pendula</i>)		Car Park Fence	Mature	10 to 15	Good	Normal	40+	* Load Factors Wind Exposure: Full. Crown Size: Medium. Crown Density: Normal. Interior Branches: Normal. * Trunk Codominant stems. Included bark.	None at present.	N/A	
T02	826	Mixed Species Group (Group, mixed species)	Group of 12 Willow, 1 Silver Birch, 1 Alder, 1 Ash	Fence Footpath	Early Mature	5 to 10	Good	Normal	50+	* Load Factors Wind Exposure: Partial. Crown Size: Small. Crown Density: Normal. Interior Branches: Normal. * Trunk Codominant stems. Included bark.	None at present.	N/A	
T03	827	Sycamore (<i>Acer pseudoplatanus</i>)		Fence Footpath Highway	Mature	10 to 15	Good	Normal	50+	* Load Factors Wind Exposure: Full. Crown Size: Medium. Crown Density: Normal. Interior Branches: Normal. * Trunk Included bark. * Crown and Branches Pruning history - Raised.	None at present.	N/A	
T04	828	Mixed Species Group 'Group of Aspen and Willow' (Group, mixed species)	Group of 15	Fence Footpath Highway	Early Mature	5 to 10	Good	Normal	50+	* Load Factors Wind Exposure: Partial. Crown Size: Small. Crown Density: Normal. Interior Branches: Normal. * Trunk Codominant stems. Included bark. * Crown and Branches Low overhanging branches over footpath. Poplar - Snapped branch over footpath.	Crown lift to 3 m for pedestrian clearance over footpath. Remove snapped branch.	3	







Ref.	Tag	Species	Variety	Target	Age	Height (m)	Structural Condition	Vitality	Life Expectancy	Observations & Defect Assessment	Recommendations	Priority	Photo
T05	828	Leyland Cypress (<i>Cupressocyparis leylandii</i> x)	Group of 5	Fence	Early Mature	5 to 10	Good	Normal	50+	* Load Factors Wind Exposure: Partial. Crown Size: Medium. Crown Density: Normal. Interior Branches: Normal. * Trunk Codominant stems. Included bark.	None at present.	N/A	
T06	830	Mixed Species Group (Group, mixed species)	Group of 2 Silver Birch, 2 Alder, 4 Acacia	Fence	Mature	10 to 15	Good	Normal	40+	* Load Factors Wind Exposure: Partial. Crown Size: Medium. Crown Density: Normal. Interior Branches: Normal. * Trunk Included bark.	None at present.	N/A	
T07	831	Mixed Species Group (Group, mixed species)	Group of 3 Silver Birch, 1 Alder, 3 Acacia	Fence	Mature	10 to 15	Good	Normal	40+	Small dead Silver Birch within group, not over a target area. * Load Factors Wind Exposure: Partial. Crown Size: Medium. Crown Density: Normal. Interior Branches: Normal. * Trunk Included bark. Heavy Ivy clad.	None at present.	N/A	
T08	832	Mixed Species Group (Group, mixed species)	Group of 1Tulip, 1Acacia, 1Sycamore 1Goat Willow	Fence	Mature	10 to 15	Good	Normal	40+	* Load Factors Wind Exposure: Partial. Crown Size: Medium. Crown Density: Normal. Interior Branches: Normal.	None at present.	N/A	





Ref.	Tag	Species	Variety	Target	Age	Height (m)	Structural Condition	Vitality	Life Expectancy	Observations & Defect Assessment	Recommendations	Priority	Photo
T09	833	Mixed Species Group (Group, mixed species)	Group of 1 Sorbus, 10 Alder, 1 Tulip, 10 Willow	Fence	Early Mature	5 to 10	Good	Normal	50+	* Load Factors Wind Exposure: Protected. Crown Size: Small. Crown Density: Normal. Interior Branches: Normal.	None at present.	N/A	
T10	834	Common Alder (Alnus glutinosa)		Group of 34	Early Mature	5 to 10	Good	Normal	50+	* Load Factors Wind Exposure: Protected. Crown Size: Small. Crown Density: Normal. Interior Branches: Normal.	None at present.	N/A	
T11	835	Mixed Species Group (Group, mixed species)	9 Silver Birch, 13 Alder, 1 Sycamore, 6 Ash	Fence	Early Mature	5 to 10	Good	Normal	50+	* Load Factors Wind Exposure: Protected. Crown Size: Small. Crown Density: Normal. Interior Branches: Normal.	None at present.	N/A	
T12	836	Mixed Species Group (Group, mixed species)	Group of 8 Acacia, 16 Alder, 1 Lime	Fence	Early Mature	10 to 15	Good	Normal	50+	* Load Factors Wind Exposure: Protected. Crown Size: Medium. Crown Density: Normal. Interior Branches: Normal. * Crown and Branches Overhanging branches from acacia over No. 53. Failed Acacia within group, leave as habitat.	Reduce overhanging branches back from the building by 3m.	3	



Ref.	Tag	Species	Variety	Target	Age	Height (m)	Structural Condition	Vitality	Life Expectancy	Observations & Defect Assessment	Recommendations	Priority	Photo
T13	837	Mixed Species Group (Group, mixed species)	12 Silver Birch, 5 Acacia, 11 Alder, 4 Maple	Fence	Early Mature	10 to 15	Good	Normal	50+	* Load Factors Wind Exposure: Partial. Crown Size: Medium. Crown Density: Normal. Interior Branches: Normal.	None at present.	N/A	
T14	No tag	Silver Birch (Betula pendula)		Fence Footpath	Early Mature	5 to 10	Poor	Poor	Dead	Dead tree within Target Zone.	Fell tree.	1	
T15	No tag	Silver Birch (Betula pendula)		Fence Footpath	Early Mature	5 to 10	Poor	Poor	Dead	Dead tree within Target Zone.	Fell tree.	1	
T16	No tag	Silver Birch (Betula pendula)		Fence Footpath	Early Mature	5 to 10	Poor	Poor	Dead	Declining tree within Target Zone.	Fell tree.	1	



Ref.	Tag	Species	Variety	Target	Age	Height (m)	Structural Condition	Vitality	Life Expectancy	Observations & Defect Assessment	Recommendations	Priority	Photo
T17	No tag	Silver Birch (Betula pendula)		Fence Footpath	Early Mature	5 to 10	Poor	Poor	Dead	Dead tree within Target Zone.	Fell tree.	1	
T18	No tag	Silver Birch (Betula pendula)		Fence Footpath	Early Mature	5 to 10	Poor	Poor	Dead	Dead tree within Target Zone.	Fell tree.	1	



Keys

Est – Estimated.

Hazard – Something with the potential to cause harm.

Risk – The probability that harm will actually be caused to persons or property by the tree with a defect.

Target – In order for there to be a risk there has to be a target; people and property constitute a target.

Deadwood – any deadwood greater than 1 metre and 50mm diameter.

Hazard Beam – A curved woody stem, whose loading tends to bend it against the direction of curvature, has a tendency to split through the centre, having the effect of straightening the part.

Compression Fork – A kind of narrow fork with included bark in which continued radial growth results in pressure which tends to push the limbs of the fork apart.

Age Class – Y Young, SM Semi Mature, MA Middle Aged, M Mature and OM Over Mature. All age classes are related to the age for species.

Crown Reduction – A form of pruning in which the extent of the crown is decreased without (primarily) decreasing its density, to reduce loading, balance the crown, mitigate a nuisance, etc.

Crown Thinning – A form of pruning in which individual branches are removed from the crown to reduce its density without (primarily) reducing its extent. Alternatively, in forestry, crown thinning is a thinning type.

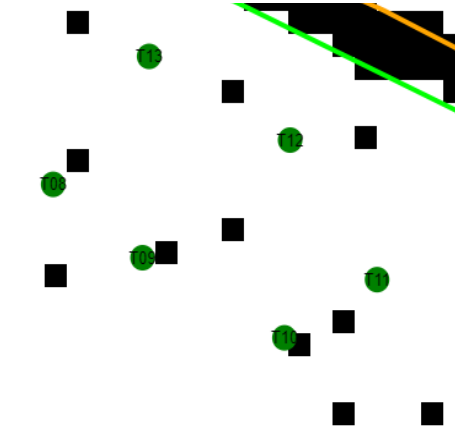
Crown Lifting – The removal of lower branches of a tree, whether complete branches or those arising from the lower limbs, to increase the headroom to the base of the crown.

Fell – The cutting down of a tree, generally close to ground level, to leave a low stump.

Stump Grinding – To grind stump 300mm below ground level.



Trees on OS Maps – A coloured circle with a number represents a single tree.



Trees on OS Maps – A coloured octagon (or shape with many angles) with a number represents a group of trees with crown touching.

