

LANDSCAPE NOTES & IMPLEMENTATION

PRELIMS

Programme

All landscape implementation works to take place and be completed prior to substantial completion of building works (or substantial completion of the relevant phase/portion of the development), and for bare rooted stock during the first planting season after completion of the relevant building works, or prior to sale of any individual plots, whichever is the sooner.

Quality control

All landscape works to be carried out in accordance with the relevant current British Standards (including current revisions of 4428, 3936 & 5837); National Planting Specifications Guidelines; Horticultural Trades Association standards (including 'Handling and establishing landscape plants' part 1, 2 & 3); CPSE 'Plant Handling' Standards & COSHH Regulations. Where landscape contractors are use, all soft landscape works to be carried out by trained and competent operatives under appropriate supervision and only after a suitable pre-commencement site meeting of all relevant parties. Setting out, materials and plant stock supplies to be approved by a competent client representative. There will be no plant substitutions or scheme revisions allowed without written approval of the client or client representative. Workmanship and maintenance operations to be subject to monitoring inspections and approval also by a competent client representative.

General care & tidiness

During the implementation works and maintenance thereafter, all soft landscape operations to be carried out with care to respect the site and environs, its occupiers, passers-by and other contractors' operations. In particular, all waste material to be removed from site following completion of the day's work and/or the particular element of work. Precautions also to be taken to avoid the fouling of other site structures and adjacent surfaces (including roadways, paths and parking areas) with spillage of soil or other material.

PLANTING

Plants and plant handling

All plant material to be of good quality stock, size in accordance with the specification, and in a healthy condition; free from pest, disease and weed growth in accordance with BS3936 and HTA National Plant Specification. British native species to be of British origin, of local seed stock/provenance wherever possible, and from sustainable seed sources. Plants to be handled in accordance with BS4428 and the HTA code for Plant Handling and Establishment of Landscape Plants to ensure that transit, storage, handling on site and planting operations preserve and promote the condition of the stock. Trees and tree handling to be in accordance with BS8545:2014 Trees: from nursery to independence in the landscape - Recommendations.

Planting generally

Plants to be evenly spaced throughout allotted planting areas, at densities as specified. Planting mixes to be laid out with species randomly distributed throughout allotted planting areas. Planting to be carried out in accordance to the HTA code stated above, and into planting hole/pits slightly larger than the growing container/root spread, with sides and bottom of pits loosened as necessary to ensure adequate drainage and to allow normal root growth. Each plant to be thoroughly watered with a minimum of 5l of water immediately after planting and prior to application of mulch. All bare-root planting to be carried out only during the winter planting season between mid-November and the end of February. No planting to be undertaken when the ground is frozen.

Native transplant stock

The native transplant stock specified in the planting schedule are to comply with British Standard 3936:1992 'Nursery Stock' Part 1 'Trees and Shrubs' and 4428:1989 'Code of practice for general landscape operations'.

Prior to planting the Contractor shall remove all perennial weeds, large stones, rubbish, litter and other debris. A pre planting application of a Glyphosate-rich herbicide using a spot treatment (lance) method shall be applied. Where compaction of the ground has occurred the soil will be rotavated to a minimum depth of 250mm prior to planting. A minimum of two weeks prior to planting contractor to incorporate general purpose garden fertilizer (N.P.K. 7:7:7) to manufacturer's recommendations.

No planting shall be undertaken when the soil is frozen or snow covered. In the event that the bare root stock is planted towards the end of the biologically dormant (planting) season, in February or March, plants should be treated with a root dip medium (for example Roots Mycorrhiza Inoculant Root Dip Gel) following the manufacturers instructions for use. Any root dip operation must be undertaken immediately following exposure of roots when removed from the storage medium. Throughout any pre-planting preparation the contractor is to minimise the amount of time bare roots are left exposed to the atmosphere.

A notch planting technique is to be used by the Contractor in planting the transplants and a fertiliser tablet (for example MycoTabs' Mycorrhizal 20+10+5 21g Fertiliser Tablets) is to be added deep into each cut before the tree roots are inserted.

Tree stakes/canes are to be used as specified. Support for each plant should be located on the windward side of the tree shelter. No portion of the support is to protrude above the tree shelter. The support is to be placed between 4cm and 7cm from the base of the plants main vertical axis.

Native tree planting

Tree planting to be in accordance with BS8545:2014 Trees: from nursery to independence in the landscape - Recommendations. Tree pits to be excavated squares to a minimum size of 1m x 1m and 300-400mm deep. These dimensions to be increased as necessary to accommodate the entire root system without pruning or bending. In the case of container grown or root balled trees, the planting pit to be at least 150mm wider in all dimensions than the root-ball. The sides and bottom of tree pits to be broken up as necessary to ensure adequate drainage and allow normal root growth. The tree pit to be watered thoroughly prior to planting. Back fill material to be subsoil and topsoil to replicate existing soil profile, with a suitable slow release tree fertiliser added to the topsoil in accordance with manufacturer's recommendations. Tree support to be of a design suitable for the size of tree and particular root stock as follows: single stake for bare-root trees within the standard size categories.; double stake and belt ties for bare root trees within the extra heavy standard size categories and smaller trees if container grown or root ball stock. All stakes to be driven firm into the base of tree pits (minimum 300mm) and finished to a uniform height (300-450mm above ground). All tie and belt stake fixings to be biodegradable and to be fitted towards the head of the stakes. In all cases, the base of the trees to be held firm whilst allowing free movement of the crown. Following planting, all trees to be thoroughly watered with a minimum of 20L per tree, and then as necessary during the first summer season to promote establishment.

Mulch

On completion of planting operations, all planting areas, including hedge strips and tree pits to be spread with well-composted wood chip mulch to an even thickness of 100mm. Tree pit mulch areas to be circles no less than 1m in diameter.

Rabbit protection

All tree, and hedgerow plants to be protected with 600mm high guards. These will be 170-200mm diameter for shrub species and 80-110mm diameter for trees. All to be installed and secured in accordance with manufacturer's instructions immediately after planting.

PLANTING MAINTENANCE

Replacement planting

For the first five years following planting, at the end of each growing season, any failed, failing or missing plants or failed/failing grass areas to be removed and replaced with new in accordance with the original specification.

Weeding

During maintenance visits, there will be checks for and removal of any weeds that are competing with or growing beyond the canopy of shrubs and other plants. For the base of native field hedgerow plantings, and 1m diameter around each individual copse planting, weed removal to be carried out twice during each growing season.

Watering

For the establishment period (first 2-3 years) all planting to be watered as and when necessary during dry weather to promote healthy growth and prevent plant failure. Weekly watering rates should be no less than 20 litres per tree; 5 litres per shrub; and 5 litres per linear metre of hedging during April to September unless ample rainfall renders this unnecessary. These rates to be increased during any long dry spells.

Mulch

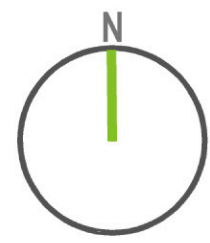
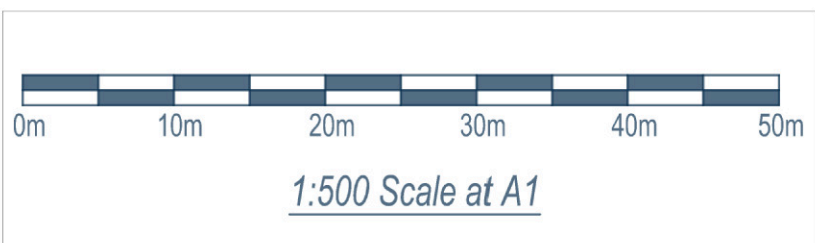
Once a year for the establishment period (first 2-3 years), the bark mulch to be topped up to restore the 100mm depth covering.

Trees

Once per growing season, there will be a check for and pruning back of any damaged, diseased, and badly formed branches or branches causing obstructions or other interference. All such pruning operations to be carried out in accordance with the recommendations contained in BS3988. After three years, all tree support stakes, ties and protective guards to be carefully removed and disposed of off-site. It is also advised that every three years, an appropriately qualified tree expert should inspect all trees on the site and produce a tree condition and management report.

Hedgerows

At the end of each growing season during establishment, hedgerows to be pruned back by half the growth of that year until the desired height and width are achieved. Thereafter, hedgerows to be pruned as and when necessary to maintain the desired form (at least once per growing season). Hedgerows to be 2-3m high and 1-2m wide once established. After three years, all protective guards to be carefully removed and disposed of off-site.



KEY:



The landscape enhancement/mitigation strategy has been designed to strengthen landscape structure around the site, and in so doing filter views of the proposals from local receptors. In particular, the woodland block (copse) to the south of the new development will filter views from the footpath to the south west. This will also soften the visual effect of the existing building. The vegetation mix is of local provenance and will visually blend with the existing landscape framework around the site.

All planting must be specified with appropriate stakes/canes and ties, and suitable rabbit/deer guards must be provided.

RECOMMEDED PLANTING SCHEDULE

Native Woodland Mix

Recommended Native Tree Species Mix – Woodland Copse / Spinney			
Scientific name	Common name	Specification	Percentage Contribution
<i>Acer campestre</i>	Field Maple	1+1: Transplant: BR 60-80cm (5-10% of mix to be feathered trees to confirm to BS 3936: Part 1 (Nursery Stock) – 6-8cm girth, approx. 2.0 to 2.5m with a well defined, upright central stem with evenly spread lateral shoots. Root system shall be adequate size in relation to the crown (10L pot if container grown).	10%
<i>Alnus glutinosa</i>	Common Alder		10%
<i>Crataegus monogyna</i>	Hawthorn		10%
<i>Fagus sylvatica</i>	Common Beech	Mix to be positioned at random centres, including approximately 10% of the mix planted in small groups of the same species very close together.	15%
<i>Sorbus aucuparia</i>	Rowan	Plant at greater density at the centre of the copse, with wider spacing feathering out to the edges.	10%
<i>Prunus avium</i>	Bird Cherry		10%
<i>Quercus robur</i>	English Oak		15%
<i>Sorbus aria</i>	Whitebeam	Selectively thin at 5 years and 10 years post-establishment, retaining the strongest plants that are showing the most vigour.	10%
<i>Ilex aquifolium</i>	Holly	5L Container Grown	10%

Trees for individual boundary trees

Recommended Tree Species					
Scientific name	Common name	Specification	Girth (cm)	Approx. height (m)	Clear stem height (m)
<i>Acer campestre</i>	Field Maple	Standard	8-10	2.50/3.00	1.75/2.00
<i>Alnus glutinosa</i>	Common Alder	Standard	8-10	2.50/3.00	1.75/2.00
<i>Crataegus monogyna</i>	Hawthorn	Light Standard	6-8	2.50/3.00	1.50/1.75
<i>Fagus sylvatica</i>	Common Beech	Select Standard	10-12	3.00/3.50	Min 2.00
<i>Prunus avium</i>	Bird Cherry	Standard	8-10	2.50/3.00	1.75/2.00
<i>Quercus robur</i>	English Oak	Standard	8-10	2.50/3.00	1.75/2.00
<i>Sorbus aria</i>	Whitebeam	Light Standard	6-8	2.50/3.00	1.50/1.75
<i>Sorbus aucuparia</i>	Rowan	Light Standard	6-8	2.50/3.00	1.50/1.75

Plants for mixed native hedgerow planting and infill / under-planting

Recommended Mixed Native Hedge Species				
Scientific name	Common name	Specification	Approx. height (cm)	%
<i>Corylus avellana</i>	Hazel	1 + 1 transplants	60-80	20
<i>Crataegus monogyna</i>	Hawthorn	1 + 1 transplants	60-80	55
<i>Euonymus europaeus</i>	Spindle	1 + 1 transplants	60-80	5
<i>Ilex aquifolium</i>	Holly	Pot-grown (3ltr)	40-60	2.5
<i>Ligustrum vulgare</i>	Wild Privet	1 + 1 transplants	60-80	2.5
<i>Prunus spinosa</i>	Blackthorn	1 + 1 transplants	60-80	10
<i>Viburnum lantana</i>	Wayfaring tree	1 + 1 transplants	60-80	5

Important notes:

Developer to ensure that all foundations and structures will take into account mature tree growth of existing and proposed trees.

Dimensions should not be scaled from this drawing.

All dimensions should be checked on site. This drawing is to be read in conjunction with all other drawings, specifications or schedule of works.

This plan shows the general position, not the exact line, of the boundaries. It may be subject to distortions in scale. Measurements scaled from this plan may not match measurements between the same points on the ground.

IF IN DOUBT - ASK.

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On behalf of:
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Scale:
1:500 @ A1

CR:
RL

CR:
WH

DRAWING TO BE READ IN CONJUNCTION WITH SUBMITTED SITE PLAN (BLOCK PLAN).

FOR BNG AREA FURTHER TO THE WEST, PLEASE REFER TO SEPERATE ECOLOGIST'S RECOMMENDATIONS.