

PLANTING SPECIFICATION

General Guidance

All plant handling to be in accordance with the HTA 'handling and establishing landscape plants' Part 1, Part 11 and Part 11 (obtainable from the Horticultural Trades Association) and the CPSE publication 'Plant Handling' and all planting to conform to National Planting Specification Guidelines.

The individual setting-out of the plants on site shall be the responsibility of the contractor and should drive into the ground at 45 degree angle to approx. 450mm above ground level and fixed to the tree by a proprietary rubber tree tie.

Contractor to ensure that smaller plants are located to the front of plant species groups as shown on detailed planting plans.

Contractor shall maintain existing levels around the base of existing trees and shall undertake all planting works occurring within root protection areas (RPA) in accordance with BS5832:2012. Contractors shall not remove or relocate any tree protection fencing without prior consent of the client.

Contractor to check the locations of all underground services, existing and proposed, prior to the excavation of any tree pits or shrub beds and identify any potential conflicts to the client / landscape architect.

All stakings shall be the client's / landscape architect's responsibility and shall be kept on site from outset and debris.

For the duration of the works the contractor shall keep the site free from fly-tipping weeds as listed in the Weeds Act 1959.

All plants shall be supplied at the same size and of the same species as specified in the planting schedules on the landscape proposal plan. Any proposed replacement species or deviation from the planting schedules should be highlighted to and agreed with the client prior to installation.

All plants shall be hardened-off at the Contractor's own nursery or at the source prior to planting out.

All field grown and rootballed trees must have been transplanted or underpinned in the nursery no less than 18 months prior to supply.

The Contractor shall carry out the work while soil and weather conditions are suitable. Planting is not to take place during periods of frost or strong winds.

The contractor is to ensure that adequate watering and weed control is provided at the time of planting.

Any topsoil retained on site in stockpiles for use in planting works is to be stored in accordance with the DEFRA publication: 'Code of practice for the sustainable use of soils on construction sites'

Do not use peat or peat based products.

Prior to planting, planting areas shall be cleared of grass and weed growth physically and/or chemically with a proprietary translocated herbicide and a period of time shall be allowed to elapse as recommended by the manufacturer before commencement of soil preparation for planting.

All plants are to be watered thoroughly before planting stage to ensure rootball is thoroughly soaked prior to final backfilling.

Tree Planting
Generally plant trees in pits with minimum dimensions of:-

- 1000 x 1000 x 700-800mm deep for trees s/o planted areas including grass/hedge areas and rear gardens.

Backfill the pits in layers as specified below from bottom up:-

- Drainage layer
 - 200mm layer of compacted inert free draining gravel or pea shingle, wrapped in geo-textile membrane
- 100mm layer of washed medium-course sand to act as sliding layer between geotextile and soil.
- Topsoil layer
 - 400-500mm layer of retained site-sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS3882:2015; sandy loam) depth dependent on size of rootball.

Depth of topsoil should only be as deep as the rootball of proposed tree to a max. depth of 400-500mm. Should the rootball be larger i.e. 800mm height, then the pit should be increased in depth to suit, but with the difference in depth from the 400-500mm topsoil layer and the drainage layer made up of quality imported free-draining subsoil to BS8861:2013 to avoid topsoil occurring at depths of greater than 500mm.

Likewise, for smaller trees i.e. feathered trees, with more limited rootball/shrub root, the depth of topsoil can be reduced to reflect the surrounding topsoil depths or to a max. topsoil depth of 300mm, with a further layer of site-sourced or imported subsoil (to BS8861:2013) below to create a total depth of growth medium of between 400-500mm i.e. 150-200mm layer of subsoil. Drainage layer should remain as above.

As stated above, the min. pit size for trees planted in newly created planting areas should be 1m x 1m, however where planting is occurring in clean, undisturbed ground, pits should be dug to approx. 200mm greater than the rootball to limit distribution of surrounding soil structure.

Break up bottom of tree pit to a depth of 200mm and ensure ground is free-draining. Loosen edges of tree pit at time of planting by hand, using a fork to ensure good drainage. Pits should be excavated no greater than 48hrs prior to planting and dewatered as required.

Incorporate a soil conditioner/amendment in the form of peat-free general-purpose shrub compost or well rotted spent mushroom compost or 'Roommaster' by Greenleaf Ltd (1423 332100) into backfilled topsoil material at the rate of min. 40L per pit.

Incorporate soil improver 'Terracotom Aton' by Greenleaf Ltd (1423 332100) at a rate of 1kg per pit, mixed thoroughly into backfilled topsoil.

Backfill topsoil mix in layers of 150mm, firming at each layer and loosening the pit sides to aid drainage. The surface level of the tree pit should be 50mm above the surrounding ground.

Trees shall be planted in the centre of the excavated pits.

Trees in soil planted areas to be dressed with a minimum 75mm mulch layer, consisting of pine bark fines, particle size 15-50mm to a min. diameter of 1000-1200mm where appropriate.

Semi-mature trees shall be secured by use of a proprietary underground guying system, incorporating

guy mats to protect the upper surface of the rootball and secured to the base of the tree pit or by use of deadman anchors. Guying supports to be sized in line with the size of the tree as recommended by the manufacturers.

Extra-heavy and heavy standard trees shall be staked and supported with a low, double stake consisting of 20mm diameter x min. 2000mm length, rounded timber posts driven into the ground, 600mm above ground level and fixed to the tree by a proprietary rubber tree tie / horizontal cross support.

Standard trees shall be staked and supported with a low, single stake consisting of 10mm diameter x min. 2000mm length, rounded timber post driven into the ground at 45 degree angle to approx. 450mm above ground level and fixed to the tree by a proprietary rubber tree tie.

Trees shall be installed with proprietary flexible perforated irrigation pipe with integral cap. Pipe to be installed encircling equally around rootball to the full depth of planting pit, with the final cap section installed just above ground level and sealed securely in place to the adjacent timber stake.

All trees in grass areas to be protected by min. 225mm high x 12-15mm diam. proprietary plastic stem/wire mesh, to a depth of 300mm, the facing tree, joints fixed with jointing tape, install 10mm above final surface level of soil landscaping.

Root barrier membrane(s) to be installed on the tree side along the back edge of the kerb / edging restraint to the adjacent hard standing and air to extend a minimum 3m in each direction from a point taken perpendicular from the tree trunk to the kerb/edging face.

For all proposed trees carried in location within 3m of an adjacent hard standing/footpath or carriageway with the a proprietary root barrier membrane will be installed to protect the hard standing and any underground services located beneath from future damage by tree roots.

Root barrier membrane(s) to be installed on the tree side along the back edge of the kerb / edging restraint to the adjacent hard standing and air to extend a minimum 3m in each direction from a point taken perpendicular from the tree trunk to the kerb/edging face.

Root barrier membranes are to extend to a depth as outlined below:-

- For trees adjacent to hard standings only (no underground services), install 'Renoc 30V' by GreenBlue Urban (11424 717787) or equal and approved, ribbed root barrier membrane, to a depth of 300mm, the facing tree, joints fixed with jointing tape, install 10mm above final surface level of soil landscaping.
- For trees adjacent to hard standings incorporating underground services, install the following dependent on the depth of underground services:
 - For services 450mm deep
 - 'Renoc 60V' by GreenBlue Urban (11424 717787) or equal and approved, ribbed root barrier membrane, to a depth of 600mm, the facing tree, joints fixed with jointing tape, install 10mm above final surface level of soil landscaping.
 - For services deeper than 800mm
 - 'Renoc 200V' by GreenBlue Urban (11424 717787) or equal and approved, ribbed root barrier membrane, to a depth of 2000mm, the facing tree, joints fixed with jointing tape, install 10mm above final surface level of soil landscaping.

For locations where a hard standing with or without underground services exists on both sides of the tree a geo-grass verge, then a root barrier is to be installed against both kerbs / edging faces.

For trees located within hard surfaces themselves i.e. surrounded by hard paved surfaces, install 'Root Director' by GreenBlue Urban (11424 717787) or equal and approved, min. 100x400 x 1400mm x 1400mm x 450mm, plastic root director with integral ribs.

Subsoil layer to be fully broken-up to ensure adequate decompaction and alleviate free-drainage. For light and non-cohesive subsoils, when ground conditions are reasonably dry, loosen thoroughly to a depth of 300mm (400mm for stiff clay / concrete soils). Remove all stones and debris greater than 50mm, including roots and tufts of grass. Top 50mm of subsoil to be reduced to a medium till suitable for final shaping using a grading blade.

Where applicable the use of a small tractor mounted single line ripper to decompact subsoil layer sufficiently.

Incorporate a soil conditioner/amendment in the form of peat-free general-purpose shrub compost or well rotted spent mushroom compost across the planting bed in a 50mm layer at a rate of 300g per m², and incorporate to a depth of 225mm.

Install a proprietary geo-textile weed suppressant membrane onto the surface of the pre-prepared shrub planting beds with minimum 300mm laps. Once planting bed is prepared, dig planting holes for shrubs to be a depth of 200mm and a width of 150mm greater than the source pot size, ensuring that pit walls are loosened to ensure good drainage.

Ensure planting appears random / natural and not formal in accordance with the planting proposal layouts as supplied by the Landscape Architect.

All shrub areas to be dressed with a minimum 75mm mulch layer, consisting of medium chipped tree bark, composted for 2-4 weeks, particle size 15-50mm, laid directly onto weed suppressant membrane.

The contractor shall take the necessary precautions to ensure all shrub areas are protected throughout the establishment period by temporary fencing.

Ornamental Hedge Planting (incl. single species native hedges)

Plant hedges into pre-prepared planting trenches, 500-600mm wide for double rows. Planting strips to consist of topsoil to a depth of 350-400mm, mixed with soil conditioner as specified below.

Topsoil to be either, existing retained site-sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS3882:2015; sandy loam) or a combination of the two as necessary.

Incorporate a soil conditioner/amendment in the form of peat-free general-purpose shrub compost or well rotted spent mushroom compost along planting trench in a 50mm layer at the rate of 300g per m², and incorporate to a depth of 225mm.

Install a proprietary weed suppressant membrane onto the surface of the pre-prepared trench, with minimum 300mm laps. Plant hedge plants into pre-prepared planting strips which are deep enough as to be 200mm greater than the root depth of the supplied plant stock.

All hedge planting areas to be dressed with a minimum 75mm mulch layer, consisting of medium chipped tree bark, composted for 2-4 weeks, particle size 15-50mm, laid directly onto weed suppressant membrane.

Where not planted against a proposed fence-line or wall, hedges to be supported by min. 1000 high timber post and wire fence, consisting of min. 75mm diameter x 2000mm long, rounded timber posts, driven in x 2000mm centres with 20mm galvanised wire supports evenly spaced along the vertical axis of the post. Corner posts and/or straining posts are to be additionally supported by 45° angled, 50mm diameter timber staks.

Amenity Turf Planting

Areas to be turfed are to be 'dag over' or rotolaved to ensure decompaction of any existing substrate and then final graded to bring to a uniform and even grade at the correct finished level, removing all minor hollows and ridges. Light rolling may be required to consolidate any loose substrate.

All stones and debris greater than 50mm in size to be removed and disposed of off-site.

Turfed areas are to consist of min. 150mm topsoil; either existing retained site sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS3882:2015; sandy loam) or a combination of the two as necessary, overlying min. 150mm layer of clean, free-draining subsoil. Subsoil should be prepared as per shrub specification, ensuring full decompaction and free-drainage.

Unless otherwise stated, finished levels of turfed areas to be 30mm above adjoining paving and kerbs.

Final preparation of the turfed areas shall be carried out as to create a fine 10th surface suitable for laying of turves.

Prepared areas to be watered thoroughly to a depth of 75mm and lawn establishment fertiliser should be applied at a rate of 40g/m², 48hours prior to turfing. Fertiliser to be spread into 25mm of the surface.

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FOR LEAP 1 PLAY AREA
PROPOSALS REFER TO
CSA/3823/112

FOR PUBLIC OPEN SPACE
PROPOSALS REFER TO
CSA/3823/107-110

REFER TO PREVIOUS
APPLICATION FOR DETAILS

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FOR PUBLIC OPEN SPACE
PROPOSALS REFER TO
CSA/3823/107-110

- LEGEND**
- APPLICATION BOUNDARY
 - EXISTING TREES / VEGETATION

- Softworks**
- SEMI-MATURE TREE
 - EXTRA HEAVY STANDARD TREE
 - STANDARD TREE
 - ORNAMENTAL HEDGE PLANTING
 - NATIVE HEDGE PLANTING
 - ORNAMENTAL SHRUB / HERBACEOUS / GRASS PLANTING
 - CLIMBING SHRUB PLANTING

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- Notes**
- Refer to CSA/3823/103 for Plant Schedule;
 - Refer to CSA/3823/104-106 for Hard Landscape Proposals;
 - Refer to CSA/3823/107-110 for Public Open Space Landscape Proposals.

Rev	Date	By	Description
1	01/04/20	AD	Initial Issue
2	01/04/20	AD	Revised
3	01/04/20	AD	Revised
4	01/04/20	AD	Revised
5	01/04/20	AD	Revised
6	01/04/20	AD	Revised
7	01/04/20	AD	Revised
8	01/04/20	AD	Revised
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