

OUTLINE PLANTING SPECIFICATION
GENERAL: All work to be undertaken in accordance with the National Plant Specification 3836 Parts 1 (Nursery Stock Specification for trees and shrubs), and 10 (ground cover shrubs), BS4428:1998 Code of practice for general landscape operations (excluding hard surfaces), and BS7370:1993 Grounds maintenance part 4. Recommendations for maintenance of soft landscape (other than amenity turf).

EXISTING TREES AND HEDGES: Retain and protect in accordance with BS5837:2012 Trees in Relation to Demolition, Design and Construction. Tree works to be carried out in accordance with BS3998 and project arboricultural recommendations.

It is important to avoid ground compaction and damage to tree and hedge roots. The protective fence to be erected should be kept to a minimum of excavation and construction and located as indicated. No vehicles access, chariot in level, compacting operations, materials stored or allowed to run through the protected area. No fires within 10m of the canopy spread. Clearly label the protective fence with a laminated A4 information notice giving procedure required for access by personnel. Any intrusion within to be with written permission from the Site Agent.

Any excavation within 10m of the RPA are to be carried out by hand digging or carefully using a rotary standing cutter. The RPA on the site should be clearly marked with a red line and any roots or stumps found to be retained where possible, wrapped in hessian or covered with sharp sand (not builders, which may contain lime) and watered daily to prevent desiccation. Where root retention is not possible, remove a 100mm cut until 100mm of roots are exposed. During methods of dry excavation, vertical faces of soil within the RPA that are exposed during excavation should be covered in hessian and watered thoroughly at the end of each day to prevent desiccation and rapid fluctuations in temperature around roots which can cause serious damage. Remove the protective fencing at completion.

Arboricultural advice to be sought on key trees. Timing to be agreed at the pre start meeting. Timing of Tree Works to comply with the Wildlife and Countryside Act 1981 and undertaken outside the bird nesting season March-end August unless otherwise agreed.

SUBSOIL: Rip to 500mm depth using the teeth of a JCB back bucket or similar approved method to break up compaction and allow free drainage.

TOPSOIL: All topsoil to comply with BS 3882:2015, pH 6-8, free of stone greater than 50mm in any dimension, perennial weed roots, toxic materials, glass and contamination.

Supply and spread by loose tipping to the following depths after settlement.

Tree pits 1.2 x 1.2M x 750mm depth.

Ornamental shrub and hedge - 400mm depth.

Lightly firm without compacting. Grade to an even surface and marry in with adjacent soft landscape areas. Finished levels adjacent to hard surfaces to be level with kerbs unless otherwise instructed. Cultivate to a fine tilth removing all stones over 25mm that come to the surface. Allow to settle and make good deficiencies, humps and hollows. Remove any weeds before planting.

TREE PITS: Supply materials for and install to suppliers and Engineers requirements. Supplier GreenBlue Urban or similar approved. A Root Barrier or deflector is to be provided where a row of trees is located within 3M of a highway, service duct or utilities to be adopted.

Product: Barrier, ReRoot 1000 (shallow services) or 2000 (deep applications).

Product code: RD1000, similar to 2000.

Irrigation System: Root Rain Precinct irrigation system with Arbovent 100 inlet and plastic perforated pipe 3M length wrapped round the roots. Base of pits loosened to a further 150mm depth and shaped to convex profile to facilitate free drainage and root penetration. Incorporate 10% of total soil volume of approved organic material using a mixture of at least two of the following: composted bark mulch, charcoal and either chicken pellets or bone meal with topsoil backfill and water to field capacity after planting. EHS and HS trees to BS5236 planted as BS8545 with double short stake 75mm diameter to BS4072 and resinous means fixings.

Feeding: All trees within 3M of a highway, service duct or utilities to be adopted. Mulch trees planted with a single angled short stake and hessian tie. EHS trees to have a protective hessian wrap on the trunk to protect from sun scorch and bark desiccation. Trees in grass areas planted in a 1.5M diameter circle of part composted bark mulch 50mm depth above permeable biofabric with a protective welflesh tree guard secured to manufacturers recommendations ref. GRB Arboric Tree Shield or similar.

BARK MULCH: 75mm depth over shrub beds. Main constituent conifer bark, maximum of 15% wood content and 5% fines, particle size 5-65mm, free of pest disease or weed contamination.

21 sample to be submitted for approval with tender.

WATER: All plants after planting and before mulching. If planted between April and October include for soaking thoroughly after planting and then for dry spells of 7 days duration. Allow for provision of water from a bowser during periods of hosepipe ban to maintain uniform healthy growth.

MAINTENANCE: until handover or client instruction. Include for the removal of weeds and litter and the maintenance of bare ground beneath planted areas by cultivation without the use of herbicides where possible especially in sensitive ecology areas besides ponds, fertilizer application with slow release granules in March / April using Scotts Enmag to supplier recommendations (5-25g/s M), replacement of plant defects, topsoil up bark mulch to 50mm depth, pruning dead /damaged / diseased branches, obstructions to circulation and edge trimming as required. Shrubs and hedges pruned in accordance with good horticultural practice and BS7899 to rejuvenate, encourage flowering, fruit and colored brancheleaves for the respective species. Timing to minimise disruptive impact on wildlife incl. nesting birds, bats and amphibians.

Hedges clipped to maintain at the required height in a neat formal shape as instructed. Second year cut back strong lateral branches by 1/3. Subsequent years cut leaders when final height is reached. Paved areas to be kept free of weeds, litter and leaves.

All plant defects including replacement trees after 5 years to be reinstated.

PLANT SCHEDULE: All to BS3936 Part 1 and Part 4.

STRUCTURE TREES: Of local provenance. Supplier details to be provided for approval before ordering. Hedge planted in hand excavated pits 150mm wider and deeper than the root spread in a double staggered row 400mm between rows, 400mm between plants in row = 5flm. M. Species in low numbers in groups of 3-5 with groups spread evenly apart. All with rabbit protection using a biodegradable spiral guard 600mm ht, green with support cane ref. Green+Rainbow Treebox or similar. Cut back by 1/3 after planting to encourage branching. Acer campestre (Field maple) Br. 1+1 transplant 0.6-0.8M (Dogwood) Br. 1+1 transplant 0.6-0.8M (Hornbeam) Br. 1+1 transplant 0.6-0.8M (Hawthorn) Br. 1+1 transplant 0.6-0.8M (Holly) 3L 0.6-0.8M (Honeysuckle) 3L 0.6-0.8M Lonicera periclymenum (Crab apple) Br. 1+1 transplant 0.9-1.2M (Dog rose) Br. 1+1 transplant 0.6-0.8M Malus sylvestris (Grey willow) Br. 1+1 transplant 1.1-1.2M Viburnum opulus (Guelder rose) 1+1 transplant 0.6-0.8M

NATIVE HEDGES: Plants of local provenance. Supplier details to be provided for approval before ordering. Hedge planted in hand excavated pits 150mm wider and deeper than the root spread in a double staggered row 400mm between rows, 400mm between plants in row = 5flm. M. Species in low numbers in groups of 3-5 with groups spread evenly apart. All with rabbit protection using a biodegradable spiral guard 600mm ht, green with support cane ref. Green+Rainbow Treebox or similar. Cut back by 1/3 after planting to encourage branching.

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ORNAMENTAL SHRUBS: Eventual growing height over 1.0M. 3 strong breaks from the base. All container grown if planted outside the recognised bare root season.

Corinus sanguinea Midwinter Fire (Orange dogwood) 5L 600-900mm 2 Mahonia Winter Sun (Grape of Oregon) 5L 450-600mm 3

GROUND COVER: 3 strong breaks from the base. Planted in single species groups

Buxus sempervirens (Winter creeper, variegated) 5L 300-450mm 5 Geranium macrorrhizum Bevans (perennial geranium) 3L AS Hedera helix (Ivy) 3L 300-450mm 5 Hedera helix (Ivy) 2L 300-450mm 5 Helleborus foetidus (Stinking hellebore) 3L 5 Salix cinerea (Variegated periwinkle) 2L 9

CLIMBERS: Planted 450mm from wall with support cane. Include for provision of support frame of 3 lines of galvanised wire 2M length from 750mm ht @ 450mm intervals secured to vine eyes where the plant is not self supporting.

Lonicera periclymenum Serotina (Honeysuckle) 5L 750-900mm AS Jasminum nudiflorum (Winter jasmine) 3L 750-900mm AS

Plant numbers and sizes to be checked prior to ordering and planting.

Proposed substitutions to be agreed in writing before ordering and planting.

Planting detail: Irrigation system with grid inlet for irrigation and aeration. Ensure inlet is slightly proud of ground level.

Root Director PDS10A Barriers should finish 10mm above tree pit soil level. Kerb haunching on inside cut back to 300mm max

Loosen & shape base as shown to aid root penetration and pit drainage.

PLANTING DETAIL for EHS TREE

STATION WITHIN 3M OF ADOPTED HIGHWAY. SERVICES OR HARD SURFACE INCORPORATING ROOT DIRECTOR OR BARRIER AND IRRIGATION SYSTEM.

Soft Landscape Management Plan. 15 year summary sheet.

Review every year.

Operation Time in years when operation carried out

1 2 3 4 5 > 15yr

Trees

Replacement of Defects (5 years)

Pruning (Annually)

Re-staking and tying (Twice yearly check)

Watering (during dry spell of 14 days)

Safety inspection of existing followed by recommended tree works (Annually and after severe storms)

Remove stakes and ties once established

(*)

Shrubs and herbaceous beds

Replacing by hand

Pruning (annually) to remove obstructions to circulation/damaged/grown material/facilitate

flowering and longevity

Fertilizer (annually)

Hoeing (14 occasions annually)

Wear and remove 1m (14 occs annually)

Cut back ivy (every 3 years)

Mulching

Top up to 75mm in March

Hard Surfaces

Remove litter/leaves and pruning cuttings 12x/year

Upkeep

Spray/weedkiller (once a year)

General

Remove and re-instate as required

Carry out annual review with report of works

(Once a year, December)

Agree refinements required to future management and maintenance operations