



- Landscape Architects
- Masterplanners
- Urban Designers

Oldlands Farm – Bognor Regis
Detailed Planting Scheme / Management Plan

August 2014

Contents

1. Introduction
2. Details of Positions and Species Mix
3. Plant Sources
4. Planting Methodology
5. Timetable for Implementation
6. Maintenance Schedules

Appendices

Appendix 1 - Davies Landscape Architects drawings – A3 format for purpose of this document

- DLA-1606-L02-02 Hard Landscape Layout
- DLA-1606-L02-03 Planting proposals

Appendix 2 - Davies Landscape Architects NBS Specification DLA-1606-Spec-01 for planting works only.

1. Introduction

1.1 Davies Landscape Architects (DLA) has been instructed to prepare a hard and soft landscape scheme in respect of the development at Oldlands Farm, Bognor Regis.

1.2. This report is structured as follows:

- **Section 2:** sets out details of species which shall include evergreens, plant mixes, planting densities and initial sizes of trees and shrubs;
- **Section 3:** plant sources;
- **Section 4:** planting methodology;
- **Section 5:** timetable for implementation; and
- **Section 6:** maintenance schedules.

2. Details of Positions and Species Mix

- 2.1. Location of plant species are indicated on Davies Landscape Architects drawing DLA-1606-L02-03 provided at **Appendix 1**.
- 2.2. The proposed species mix is outlined in Table 1 below.

Table 1: Species mix

Planting Schedule		
Trees	Size	Density or % mix
Acer campestre 'Elsrijk'	16-18cm Girth, RB	As shown
Acer pseudoplatanus	16-18cm Girth, RB	As shown
Carpinus betula 'Fastigiata'	16-18cm Girth, RB	As shown
Tilia cordata 'Green Spire'	16-18cm Girth, RB	As shown
Native Shrub Mix		
Corylus avellana	60-80cm, BR	15%
Crataegus monogyna	60-80cm, BR	60%
Ilex aquifolium	30/40cm, 9cm Pot	10%
Prunus spinosa	60-80cm, BR	10%
Rosa spp.	60-80cm, BR	5%
Aquatic Planting		
Acorus calamus	P9	10%
Butomus umbellatus	P9	10%
Eriophorum vaginatum	P9	10%
Iris pseudacorus	P9	20%
Pontederia cordata	P9	5%
Typha latifolia	P9	30%
Typha minima	P9	15%

3. Plant Sources

- 3.1. Plant supply shall be obtained from a local nursery that are members of the Horticultural Trades Association Nursery Certification Scheme and approved by the project and local authority landscape architect.
- 3.2. All planting stock shall be of local provenance or if unavailable national provenance. Origin and provenance have the meaning given in the National Plant Specification and grown in the UK.

4. Planting Methodology

- 4.1 Plant handling and planting operations shall be undertaken in accordance with Horticultural Trades Association "Handling and Establishing Landscape Plants" (Parts I-III).
- 4.2 Refer to Davies Landscape Architects NBS Specification DLA-1606-Spec-01 for fully detailed planting methodology provided at **Appendix 2**.
- 4.3 Topsoil for the landscape planting works shall be obtained from site or imported soils to make up any deficiency.
- 4.4 Topsoil shall be fertile with maximum 35% clay content and 5% minimum organic content, pH levels between 5.8 - 7.5 and free of perennial weeds, weed seeds and contamination. The maximum stone content should be 20% (20mm partial size), and the maximum size of stones 50mm in any direction. Existing soil to be ameliorated and/or screened, if necessary, to achieve this specification.
- 4.5 Imported topsoil shall be to BS3882: Multi Purpose Grade, from an approved local source and to accord with the above specification

5. Timetable for Implementation

- 5.1. The Landscape implementation shall be undertaken by the end of the next available complete planting season following the commencement of the bund construction and during the following periods:
- Deciduous trees and shrubs: Late October to late March.
 - Conifers and evergreens: September/ October or April/ May.
 - Container grown plants: At any time if ground and weather conditions are favourable.

6. Maintenance Schedules

Maintenance Schedule Years 1 to 5
Oldlands Farm

Features / habitat types	Action required	Timings
Advanced nursery stock trees	Newly planted tree stock should be inspected for disease by a competent person and inform the Landowner or management company of any major deterioration in the condition of any landscape element. Tree Surgery / Crown reduction as instructed by a qualified arborist. The works should only be carried out by qualified contractors with proof of adequate insurance cover. Pruning of epicormic or basal growth can normally be undertaken by unqualified personnel. Weed control by ensuring no weed growth within a 500mm diameter of each tree. A suitable herbicide should be used in compliance with manufacturer's instructions. Fertilize using suitable slow release fertilizer as per manufacturer's instructions. Inspect tree ties and stakes as scheduled and after strong winds. Replace loose, broken ties or decayed stakes to original specification. Remove ties and stakes. Remove dead trees and replace as per original specification.	Annually – in late autumn Annually inspect and monitor condition of trees. - Sept Annually - Sept Annually - Apr & Aug Till year 4– Apr & Aug Every 3 months 5 years after planting. Annually till year 5
Shrub planting	Newly planted stock should be inspected for disease by a competent person and inform the Landowner or management company of any major deterioration in the condition of any landscape element. Weed control by ensuring maximum of 10% weed growth within shrub beds. By hand or with a suitable non-residual herbicide - used in compliance with manufacturer's instructions. Fertilise using suitable slow release fertiliser as per manufacturer's instructions. Remove dead shrubs and replace as per original specification. Prune shrubs in accordance with best practise and appropriate to species, removing arisings.	Annually – in late autumn Annually – monthly from Mar & Sept Till year 4– Apr & Aug Annually till year 5 Annually between Oct and Feb
Storm water retention embankments and pond	Grass height: Maintain within a range 30 and 75mm and shall be a vigorous sward, free from disease, fungal growth, or discolouration. Allow establishment of marginal plants. Once vegetation has established (probably after two years), management will be introduced. Clearing 30% of marginal vegetation (generally by hand-pulling, raking or netting) in order to retain areas of open flood water while at the same time maintaining some vegetation and structural variation. Removal of litter and obstructions in order to allow free drainage and to avoid blockages of inlets.	Every 4 weeks during the growing season Annually - Oct after year 2 As required

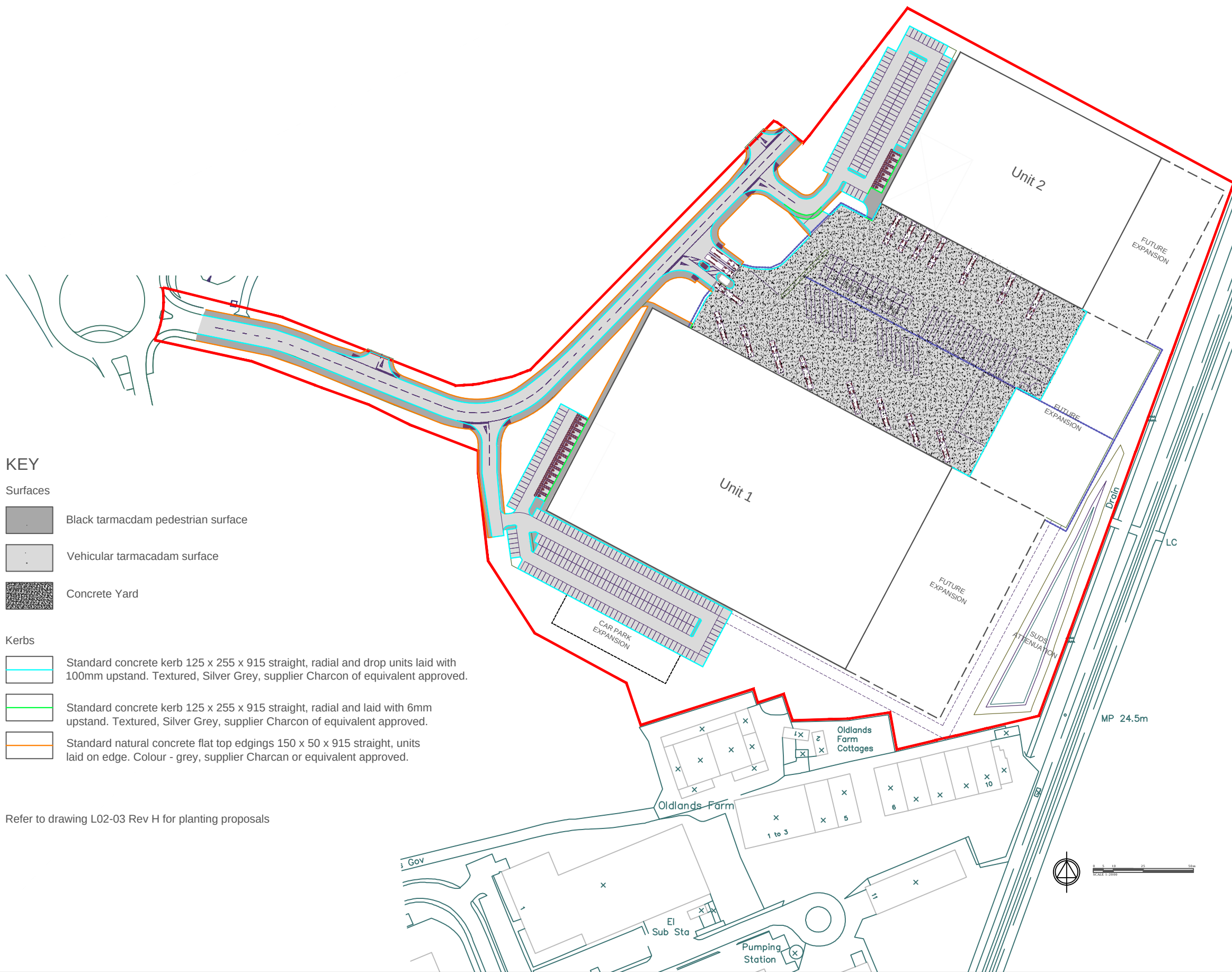
Maintenance Schedule Years 1 to 5
Oldlands Farm

Features / habitat types	Action required	Timings
Reviewing the maintenance and management plan	Qualified personnel shall monitor / report and adjust the short term maintenance plan and timings twice a year. The long-term management plan including its objectives and deliverability should be reviewed every 5 years and should be adjusted as appropriate.	Twice per annum Every 5 years

Appendix 1

Drawings

- DLA-1606-L02-02 Hard Landscape Layout
- DLA-1606-L02-03 Planting proposals



KEY

Surfaces

- Black tarmacdam pedestrian surface
- Vehicular tarmacadam surface
- Concrete Yard

Kerbs

- Standard concrete kerb 125 x 255 x 915 straight, radial and drop units laid with 100mm upstand. Textured, Silver Grey, supplier Charcon of equivalent approved.
- Standard concrete kerb 125 x 255 x 915 straight, radial and laid with 6mm upstand. Textured, Silver Grey, supplier Charcon of equivalent approved.
- Standard natural concrete flat top edgings 150 x 50 x 915 straight, units laid on edge. Colour - grey, supplier Charcan or equivalent approved.

Refer to drawing L02-03 Rev H for planting proposals

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THIS DRAWING IS COPYRIGHT.

01. DESIGN	04. PRODUCTION INFORMATION
02. PLANNING	05. CONSTRUCTION
03. TENDER	06. AS BUILT

DRAWING STATUS :

02

01. PRELIMINARY	02. FOR COMMENT	03. FOR APPROVAL
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OTHER :

-

PROJECT :

**Proposed employment development
Oldlands Farm**

DRAWING TITLE :

Hard Landscape Layout

**Daves
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JOB NO. : 1606	DRAWN BY : MS
DWG NO. : DLA-1606-L02-02	REV : L

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KEY



Advanced nursery stock (16-18cm girth, Root-balled)		
Species		No.
Acer campestre 'Elsrijk'		12
Acer pseudoplatanus 'Negenia'		4
Carpinus betula 'Fastigiata'		7
Tilia cordata 'Green Spire'		14



Native scrub mix (60-80cm high)		
Planted on a 1.0m grid in groups of 5 to 25 plants. Planted with grow tubes /shrub shelters, supported by a 50x50mm stake and fitted with individual mulch mats.		
Species	% Mix	No.
Hazel (Corylus avellana)	15%	920
Hawthorn (Crataegus monogyna)	60%	3670
Holly (Ilex aquifolium)	10%	615
Blackthorn (Prunus spinosa)	10%	615
Dog Rose (Rosa spp)	5%	305

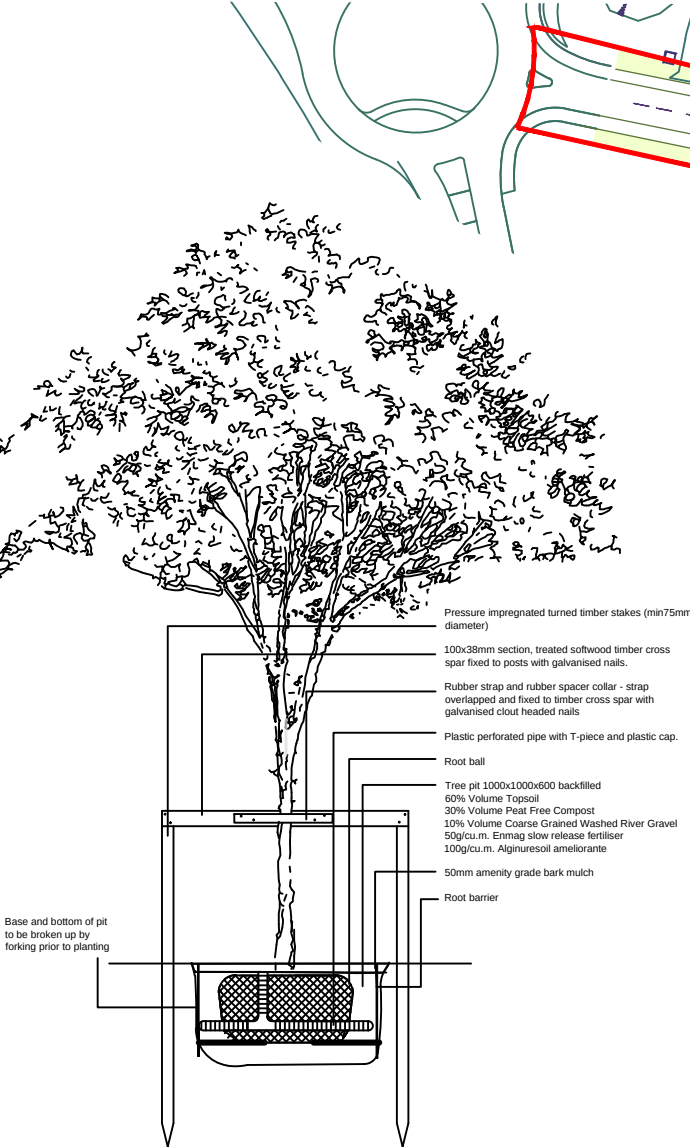


Aquatic planting within the SUDS ponds		
Plant 20% of SUDS pond margin in areas of approximately 20m² on 0.5m grid in species groups of 10 to 20 plants		
Species	% Mix	No.
Sweet flag (Acorus calamus)	10%	135
Flowering rush (Butomus umbellatus)	10%	135
Hairs Tail Cottongrass (Eriophorum vaginatum)	10%	135
Yellow Flag (Iris pseudacorus)	20%	270
Pickereil Weed (Pontederia cordata)	5%	70
Bulrush (Typha latifolia)	30%	405
Dwarf Bulrush (Typha minima)	15%	200



Wildflower Grass mix WFG4 from British Seed Houses

For planting details refer to Management Plan: DLA.1606.RPT.MAN.01 Rev E
Refer to drawing L02-02 Rev L for Hard Landscape Layout



TYPICAL AVENUE TREE PIT DETAIL
SCALE - 1:50@ A3



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DRAWING STATUS :

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01. PRELIMINARY	02. FOR COMMENT	03. FOR APPROVAL
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OTHER :

-

PROJECT :

Proposed employment development
Oldlands Farm

DRAWING TITLE :

Planting Proposals

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JOB NO. : 1606	DRAWN BY : MS
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Appendix 2

Landscape specification

Table of Contents

Title		Page
Q	Paving/Planting/Fencing/Site furniture	3
Q28	Topsoiling	5
Q30	Seeding/turfing	8
Q31	External planting	11

Q

Paving/Planting/Fencing/Site furniture

Q28
Topsoiling

Q28 Topsoiling

200 GRADING SUBSOIL

- General: Grade to smooth flowing contours to achieve specified finished levels of topsoil.
- Areas of thicker topsoil: Excavate locally.

250 SUBSOIL SURFACE PREPARATION

- General: Excavate and/ or place fill to required profiles and levels, as section D20.
- Loosening:
 - Light and noncohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 300 mm.
 - Stiff clay and cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 450 mm.
 - Rock and chalk subgrades: Lightly scarify to promote free drainage.
- Stones: Immediately before spreading topsoil, remove stones larger than 50 mm.
- Other items: Remove arisings, contaminants and debris .

260 INSPECTING FORMATIONS

- Give notice: Before spreading topsoil for planting beds .
- Notice period: 7 days.

300 TOPSOIL ANALYSIS

- Soil to be analysed: On site topsoil and Imported topsoil to make up site discrepancy.
- Soil analyst: Voelcker Consultants, Long Island House, Warple Way, London W3 0RG Tel (0) 208 7469550Volecher .
- Samples: Collect in accordance with BS 3882, Annex A.
- Submit originals of:
 - Declaration of analysis of soil in accordance with BS 3882 figure 3.
 - Report detailing soil analyst's recommendations.

340 IMPORTED TOPSOIL (TO BS 3882)

- Quantity: Provide as necessary to make up any deficiency of topsoil existing on site and to complete the work.
- Grade: To BS 3882, General purpose.
- Source: Submit proposals.
- Submit: Declaration of analysis including information detailing each of the relevant parameters given in BS 3882, clause 6 and table 2.
- Additional analyses: As Clause 300.
- Other requirements: As Clause 300.

370 SAMPLE LOAD OF IMPORTED TOPSOIL

- General: Deliver to site a sample load of not less than 5 m³.
- Give notice: Allow inspection before making further deliveries to site. Retain for comparison with subsequent loads.
 - Notice period: 5 days days.

380 CONTAMINATION

- General: Do not use topsoil contaminated with subsoil, rubbish or other materials that are:
 - Corrosive, explosive or flammable.
 - Hazardous to human or animal life.
 - Detrimental to healthy plant growth.
- Subsoil: In areas to receive topsoil, do not use subsoil contaminated with the above materials.
- Give notice: If any evidence or symptoms of soil contamination are discovered on the site, or in topsoil to be imported.

390 TOPSOIL STORAGE HEAPS

- Location: Contractors to supply information .
- Height (maximum): 2.0 m.
- Width (maximum): 3.0 m m.
- Protection:
 - Do not place any other material on top of storage heaps.
 - Do not allow construction plant to pass over storage heaps.
 - Prevent compaction and contamination, by fencing and covering as appropriate.

410 HANDLING TOPSOIL

- Aggressive weeds: Give notice and obtain instructions before moving topsoil.
- Plant: Select and use plant to minimize disturbance, trafficking and compaction.
- Contamination: Do not mix topsoil with:
 - Subsoil, stone, hardcore, rubbish or material from demolition work.
 - Other grades of topsoil.
- Multiple handling: Keep to a minimum. Use topsoil immediately after stripping.
- Wet conditions: Handle topsoil in the driest condition possible. Do not handle during or after heavy rainfall or when it is wetter than the plastic limit as defined by BS 3882, Annex N2.

420 SPREADING TOPSOIL

- Temporary roads/surfacing: Remove before spreading topsoil.
- Layers:
 - Depth (maximum): 150 mm.
 - Gently firm each layer before spreading the next.
- Depths after firming and settlement (minimum): 300mm for shrub planting beds.
- Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

450 FINISHED LEVELS OF TOPSOIL AFTER SETTLEMENT

- Above adjoining paving or kerbs: 20 mm.
- Below dpc of adjoining buildings: Not less than 150 mm.
- Shrub areas: Higher than adjoining grass areas by 25 mm.
- Within root spread of existing trees: Unchanged.
- Adjoining soil areas: Marry in.
- Thickness of turf or mulch: Included.

Q30
Seeding/turfing

Q30 Seeding/turfing

GENERAL INFORMATION/REQUIREMENTS

115 SEEDED AND TURFED AREAS

- Growth and development: Healthy, vigorous grass sward, free from the visible effects of pests, weeds and disease.
- Appearance: A closely knit, continuous ground cover of even density, height and colour.

120 CLIMATIC CONDITIONS

- General: Carry out the work while soil and weather conditions are suitable.

PREPARATION

280A FINAL CULTIVATION

- Timing: After grading and fertilizing.
- Seed bed: Reduce to fine, firm tilth with good crumb structure.
 - Depth: 25 mm.
 - Surface preparation: Rake to a true, even surface, friable and lightly firmed but not over compacted.
 - Remove surface stones/earth clods exceeding:
General areas: 20 mm.
Adjacent levels: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.

SEEDING

310A GRASS SEED FOR ALL GRASSED AREAS

- Mixture: British Seed House.
 - Mixture reference: WFG4
 - Application rate: 10g per sq.m.

319 QUALITY OF SEED FOR ALL GRASSED AREAS

- Freshness: Produced for the current growing season.
- Certification: Blue label certified varieties.
 - Standard: EC purity and germination regulations.
 - Official Seed Testing Station certificate of germination, purity and composition: Submit when requested.
- Samples of mixtures: Submit when requested.

330 SOWING

- General: Establish good seed contact with the root zone.
- Method: To suit soil type, proposed usage, location and weather conditions during and after sowing.
 - Distribution: 2 equal sowings at right angles to each other.

PROTECTING/CUTTING

540A FIRST CUT OF FOR WILD FLORA AREAS

- Timing - Spring sown 6 weeks after sowing if sufficient material. Autumn sown cut in March
- Height of initial growth: 75 mm.
- Height of first cut: 40 mm.
- Arisings: Remove from site.

DLA-1606-SPEC

590 CLEANLINESS

- Soil and arisings: Remove from hard surfaces.
- General: Leave the works in a clean, tidy condition at Completion and after any maintenance operations.

Q31
External planting

Q31 External planting

112 SITE CLEARANCE GENERALLY

- General: Remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil.
- Stones: Remove those with largest dimension exceeding 50 mm.
- Contamination: Substances injurious to plant growth including subsoil, rubble, fuel, and lubricants.
- Vegetation: Clear scrub to ground level by flail mowing and remove arisings.
- Large roots: Grub up and dispose of without undue disturbance of soil and adjacent areas.
- Additional requirements: Remove remnants of old fence posts and mesh..

118 SOIL CONDITIONS

- Soil for cultivating and planting: Moist, friable and (excepting aquatic/ marginal planting) not waterlogged.
- Frozen or snow covered soil: Give notice before planting. Provide additional root protection. Prevent planting pit sides and bases and backfill materials from freezing.

120 CLIMATIC CONDITIONS

- General: Carry out the work while soil and weather conditions are suitable. Do not plant during periods of frost or strong winds.

125 TIMES OF YEAR FOR PLANTING

- Deciduous trees and shrubs: Late October to late March.
- Conifers and evergreens: September/ October or April/ May.
- Herbaceous plants (including aquatic and marginal): September/ October or March/ April.
- Container grown plants: At any time if ground and weather conditions are favourable. Ensure that adequate watering and weed control is provided.
- Dried bulbs, corms and tubers: September/ October.
- Colchicum (crocus): July/ August.
- Green bulbs: After flowering in spring.
- Wildflower plugs: Late August to mid November or March/ April.
- Aquatic and marginal plants: May/ June or September/ October.

130 MECHANICAL TOOLS

- Restrictions: Do not use within 100 mm of tree and plant stems.

145 WATERING

- Quantity: Wet full depth of topsoil.
- Application: Even and without damaging or displacing plants or soil.
- Frequency: As necessary to ensure establishment and continued thriving of planting.

150 WATER RESTRICTIONS

- General: If water supply is or is likely to be restricted by emergency legislation, do not carry out planting until instructed. If planting has been carried out, obtain instructions on watering.

160 NOTICE

- Give notice before:
 - Setting out.
 - Applying herbicide.
 - Applying fertilizer.
 - Delivery of plants/ trees.
 - Planting shrubs.
 - Planting trees into previously dug pits.
 - Watering.
 - Visiting site during maintenance period.
- Period of notice: 7 days.

165 PREPARATION, PLANTING AND MULCHING MATERIALS

- General: Free from toxins, pathogens or other extraneous substances harmful to plant, animal or human life.
- Certification: Submit a certificate giving supply source, content analysis, confirmation of suitability for purpose and confirmation of absence of harmful substances.
 - Certified materials: Manufactured planting media and Imported composts .
 - Give notice before ordering or using.

200 PLANTS/ TREES - GENERAL

- Condition: Materially undamaged, sturdy, healthy and vigorous.
- Appearance: Of good shape and without elongated shoots.
- Hardiness: Grown in a suitable environment and hardened off.
- Health: Free from pests, diseases, discoloration, weeds and physiological disorders.
- Budded or grafted plants: Bottom worked.
- Root system and condition: To requirements of The National Plant Specification and balanced with branch system.
- Species: True to name.
- Origin/ Provenance: Grown in the United Kingdom for at least one growing season, unless otherwise approved.
Origin and Provenance have the meaning given in the National Plant Specification.

215 PLANTS/ TREES - SPECIFICATION CRITERIA

- Name, forms, dimensions, provenance and other criteria: As scheduled and defined in the National Plant Specification.

235 CONTAINER GROWN PLANTS/ TREES

- Growing medium: With adequate nutrients for plants to thrive until permanently planted.
- Plants: Centred in containers, firmed and well watered.
- Root growth: Substantially filling containers, but not root bound, and in a condition conducive to successful transplanting.
- Hardiness: Grown in the open for at least two months before being supplied.
- Containers: With holes adequate for drainage when placed on any substrate commonly used under irrigation systems.

- 245 LABELLING AND INFORMATION
- General: Provide each plant/ tree or group of plants/ trees of a single species or cultivar with supplier's labelling for delivery to site, showing:
 - Full botanical name.
 - Total number.
 - Number of bundles.
 - Part bundles.
 - Supplier's name.
 - Employer's name and project reference.
 - Plant specification, in accordance with scheduled National Plant Specification categories.
 - Additional information: Submit on request: Country of origin.
- 246 LABELLING AND INFORMATION
- Standard: To BS 3936.
- 250 SUPPLY OF PLANTS/ TREES
- Suppliers: Members of the Horticultural Trades Association Nursery Certification Scheme.
- 255 PLANTS/ TREES RESERVED AT SUPPLIER'S PREMISES
- Types/ Species: As schedule.
 - Predelivery inspection: Give notice.
 - Labelling: Identify inspected plants/ trees as reserved for use on this project.
- 260 PLANT/ TREE SUBSTITUTION
- Plants/ trees unobtainable or known to be likely to be unobtainable at time of ordering: Submit alternatives, stating:
 - Price.
 - Difference from specified plants/ trees.
 - Further alternatives: Proposed substitutions may not be acceptable and submission of further alternatives may be required.
 - Approval: Obtain before making any substitution.
- 265 PLANT/ TREE HANDLING, STORAGE AND TRANSPORT
- Standard: To HTA 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part I, Part II and Part III, paragraphs 1.3.3 to 1.3.6, 3.0, and 4.0.
 - Frost: Protect plants/ trees from frost.
 - Handling: Handle plants/ trees with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
 - Plant packaging: Coextruded polyethylene bags with black interior and white exterior.
 - Packaging of bulk quantities: Pallets or bins sealed with polyethylene and shrink wrapped.
- 270 PLANTING GENERALLY
- Standard: To HTA 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part III, paragraphs 6.2 to 6.6.
 - Appearance: Plant upright or well balanced with best side to front.
- 280 TREATMENT OF TREE WOUNDS
- Cutting: Keep wounds as small as possible.
 - Cut cleanly back to sound wood using sharp, clean tools.
 - Leave branch collars. Do not cut flush with stem or trunk.
 - Set cuts so that water will not collect on cut area.
 - Fungicide/ Sealant: Do not apply unless instructed.

290 SURPLUS MATERIAL

- General: Remove subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, prunings and other arisings/ rubbish.

PREPARATION OF PLANTING BEDS/ PLANTING MATERIALS

300 HERBICIDE

- Locations: All shrub beds.
- General: Prevent weeds from seeding and perennial weeds from becoming established, by applying a suitable herbicide.
 - Delay cultivation as recommended by manufacturer.

335A GENERAL FERTILIZER

- Locations: All shrub beds.
- Product reference: In accordance with soil report.
- Application: Spread evenly.
 - Timing: Immediately before cultivation.
 - Coverage: in accordance with soil report.

357A SOIL AMELIORANT/ CONDITIONER

- Locations: All shrub beds .
- Type: In accordance with soil report.
- Coverage: In accordance with soil report.
- Timing: Apply prior to cultivation.

375 CULTIVATION

- Compacted topsoil: Break up to full depth.
- Cultivation: Loosen, aerate and break up soil into particles of 2-8 mm.
 - Depth: Top 350 mm of planting beds.
 - Timing: Within a few days before planting.
 - Weather and ground conditions: Suitably dry.
- Surface: Leave regular and even.
- Levels:
 - As required in sections D20 and Q28.
 - Within 25 mm of levels specified on drawings.
- Undesirable material brought to the surface: Remove, including weeds, roots, stones and clods larger than 50 mm in any dimension, tufts of grass and foreign matter.
- Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate.

PLANTING SHRUBS/ HERBACEOUS PLANTS/ BULBS

401 PLANT LAYOUT - REGULAR/ FORMAL

- Spacing: As per drawing.
- Density: A per drawing.

405 SHRUB PLANTING PITS

- Timing: Excavate 2 days (maximum) before planting.
- Sizes: 150 mm wider than roots when fully spread and 300 mm deep.
- Additional requirements: None.
- Pit bottom improvement Break up to a depth of 150 mm, incorporating 25 g of approved slow release fertilizer per planting pit.
- Backfilling material: As clause 476.

476 BACKFILLING MATERIAL

- Composition: Previously prepared mixture of topsoil excavated from pit and additional topsoil as required, together with:
 - Ameliorant/ Conditioner: Mushroom compost.
Coverage: 1 m³ per 10 m³ of topsoil.
 - Fertilizer: Slow release.
Coverage: To suit soil report recommendations.

480 AFTER PLANTING

- Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil.
- Firming: Lightly firm soil around plants and fork and/ or rake soil, without damaging roots, to a fine tilth with gentle cambers and no hollows.
- Top dressing: Sanitized and stabilized compost as clause 358, 50 mm thick.

490A INDIVIDUAL MULCH MATS

- Manufacturer: Contractors choice .
 - - Type/ size: Jute 500x500mm.
- Timing: Lay after planting.
- Watering: Water soil thoroughly before laying.
- Laying: In close contact with the soil surface. Position pre-slit mats closely around plant stems.
- Fixing: Galvanized steel pins, where necessary.
- Overlay: Not required.

PLANTING TREES

505 TREE PITS

- Sizes: 800 mm diameter x 800 mm deep for heavy standard.
- Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout.
- Pit bottoms: With slightly raised centre. Break up to a depth of 200 mm.
- Pit sides: Scarify.
- Additional requirements: Incorporate approved slow release fertilizer at 40g per m², worked into pit bottoms.
- Backfilling material: As clause 586.
- Accessories: double tree staking .

535A STAKING TO TREES

- Stakes: Softwood, peeled chestnut, larch or oak, straight, free from projections and large or edge knots and with pointed lower end.
 - Preservative treatment: Not required.
- Nails: To BS 1202-1, galvanized, minimum 25 mm long and with 10 mm diameter heads.
- Minimum stake sizes: 75mm diam.

575 SHORT DOUBLE STAKING FOR ALL TREES

- Staking: Drive stakes vertically at least 300 mm into bottom of pit on either side of tree position before planting. Consolidate material around stakes during backfilling.
- Height of stakes: Cut to approximately 600 mm above ground level.
- Cross bar: Wood, as stake.
 - Firmly fix on windward side of tree and as close as possible to stem.
- Ties: Adjustable cushioned ties.
- Tying: Secure tree firmly but not rigidly to cross bar.

586A BACKFILLING MATERIAL TO TREES

- Composition: Previously prepared mixture of topsoil excavated from pit and additional topsoil as required, together with:
 - Ameliorant/ Conditioner:
 - 60% Volume Topsoil
 - 30% Volume Peat Free Compost
 - 10% Volume Coarse Grained Washed River Gravel
- Fertilizer:
 - 50g/cu.m. Enmag slow release fertiliser
 - 100g/cu.m. Alginuresoil amelioranteSlow release .

590 MULCHING TREES

- Material: Medium grade bark mulch.
 - Purity: Free of pests, disease, fungus and weeds.
- Preparation: Clear all weeds. Water soil thoroughly.
- Coverage: In a circular area of 500 mm radius measured from the tree stem.

596B PROTECTION TO WHIP PLANTING

- Manufacturer: Acorn.
 - Product reference: 60cm x 50mmdiam.
- Type: Polyethylene.
- Size/ Colour: Green Tint.
- Support: Internal cane fixed with a nylon tie.
- General: Ensure that protection methods do not impede natural movement of shrubs or restrict growth.