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To be read with Preliminaries/General conditions.

SPECIFICATION NUMBER 104000 / Q31

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GENERAL INFORMATION/ REQUIREMENTS

120 CLIMATIC CONDITIONS

- General: Carry out the work while soil and weather conditions are suitable.
 - Strong winds: Do not plant.

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 marginal): September/ October or March/ April.
- Container grown plants: At any time if ground and weather conditions are favourable.
 - Watering and weed control: Provide as necessary.
- 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 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: to be agreed.
- 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: Balanced with branch system.
 - Standard: The National Plant Specification.
 - Species: True to name.
 - Origin/ Provenance: Contractor's choice..
Definition: 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: Potting dates..
- 246 LABELLING AND INFORMATION
- Standard: To BS 3936.

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.
- Approval: Obtain before making any substitution.

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

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

PLANT CONTAINERS**292A PREFABRICATED PLANT CONTAINERS TO LEVEL 4 ROOF TERRACE**

- Manufacturer: Chris Brammall Architectural Metal Work or similar approved tel 01229 588580 www.chrisbrammall.com.
 - Product reference: all as indicated on dwg no 90 -2B-06.
- Material: Brushed Stainless Steel.
- Dimensions/ Shape: 8 no. circular 1200mm diameter 4@ 400mm high and 4@500mm high
15 no. 600mm diameter 5@ 400mm high 5@ 500mm and 5 @ 550mm high
3no. wave form platers as indicated on drawing. Note these can be in sections.
- Lining: as recommended by manufacturer.
- Accessories: as recommended by manufacturer.

298 WATERPROOFING LINING

- Material: as recommended by manufacturer.
- Base protection: as recommended by manufacturer.
- Installation of liner:
 - Fully supported on the base.
 - Closely fitting to the sides of container.

PREPARATION OF PLANTING BEDS/ PLANTING MATERIALS

400A RANDOM PLANT LAYOUT To Level 2 Planters

- Perennials and Small Plants: Provide equal numbers of following:

Luzula Nivea
 Dryopteris Filix-mas
 Brunnera Macrophylla 'emerald mist'
 Brunnera macrophylla Jack Frost
 Alyssum montanum
 Erigeron hybridus 'Adria'
 Geranium macrorrhizum
 Origanum vulgare
 Phlox subulata

Shrubs: Provide equal number of each of following:

Amelanchier Canadensis
 Buxus sempervirens
 Deutzia gracilis
 Euonymus fortunei
 Genista Lydia
 Hypericum patens 'hidcote'
 Jasminum nudiflorum
 Potentilla fruticosa

Spacing: Evenly to create waves of plant type.

- Density: as recommended by supplier.

400B RANDOM PLANT LAYOUT To Level 2 Planters

Ground Cover: Provide equal numbers of following:

Helxine Soleirolia
 Vinca minor Atropurpurea
 Vinca minor Alba
 Vinca minor Periwinkle

- Spacing: evenly Keeping plant types together.
- Density: as recommended by supplier.

400C PLANT LAYOUT Trees to Level 2

Tree types:

Trachycarpus Fortunei - 1 no. to each of 3 central planters. Min Height 2500mm when planted

Amelanchier lamarckii- 4 no. in edge bed keep clear of windows. Min Height 1300mm when planted

Spacing: Locate centrally.

- Density: n/a.

401A REGULAR PLANT LAYOUT To Level 4 Wave form Hedging

Plant Type:

Buxus sempervirens

Myrtus (myrtle)

Hedges to be of single plant type. Mix 2/3 Buxus to 1/3 Myrtus

Plants to be 600mm to 700mm high at time of planting.

Clipped to form waves

Spacing: Plant at 300mm centres.

- Density: Even at 300mm spacings.

401B REGULAR PLANT LAYOUT To circular pots Level 4

Plant Types: Provide equal numbers

Only one plant type per pot

- Bamboo and Bulrush:
 - Phyllostachys aurea 'golden bamboo'
 - Phyllostachys vivax aureocaulis
 - Phyllostachys nigra
 - Schoenoplectus lacustris

Grasses:

Helictotrichon

Mexican Feather grass

Spacing: As recommended by supplier.

- Density: as recommended by supplier.

420A CLIMBING PLANTS To Level 2 Planters

- Planting: 150 mm clear of supporting structure (e.g. wall/ fence) with roots spread outward.
 - Branches: Lightly secured to supports.
 - Plant Type: Provide 3 no. of each of the following:
 - Clematis montana 'rubens'
 - Clematis tangutica
 - Hedera helix
- Climber supports: wire supports fixed to walls.
 - Base height: 500mm.
 - Extent: 3000mm.
 - Centres: 300mm
 - Distance from wall: -.
- Fixings: to be agreed .
 - Centres: as recommended by manufacturer.

470 FORMAL HEDGES

- Shrubs for hedges: Consistent in species, cultivar and clone to ensure a uniform hedge.
- Planting: In trenches large enough to take full spread of roots. Set out plants evenly.

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: as per soil manufacturers recommendations.
 - Depth: to manufacturers details.

PLANTING TREES**PROTECTING/ MAINTAINING/ MAKING GOOD DEFECTS**

710 MAINTENANCE

- Duration: Carry out the operations in the following clauses from completion of planting until the end of the rectification period.
- Frequency of maintenance visits: practical completion.

720 FAILURES OF PLANTING

- Defects due to materials or workmanship not in accordance with the Contract: Plants/ trees/ shrubs that have failed to thrive.
 - Exclusions: Theft or malicious damage after completion.
 - Rectification: Replace with equivalent plants/ trees/ shrubs.
- Replacements: To match size of adjacent or nearby plants of same species or match original specification, whichever is the greater.
- Timing of making good: During the next suitable planting season.

740 CLEANLINESS

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

750 PLANTING MAINTENANCE GENERALLY

- Weed control: Maintain weed free area around each tree and shrub.
 - Diameter (minimum): The larger of 1 m or the surface of original planting pit.
 - Keep planting beds clear of weeds: By maintaining full thickness of mulch..
- Planted areas: Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or effect of mulch.
- Precautions: Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools.
- Staking: Check condition of stakes, ties, guys and guards.
 - Broken or missing items: Replace.
 - Rubbing: Prevent.
 - Ties: Adjust to accommodate growth.
 - Damage to bark: Cut back neatly with sharp knife. Prevent further damage.
 - Frequency of checks: every 3 months.
- Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs.
- Trees: Spray crown when in leaf during warm weather.
 - Timing: After dusk.
- Watering: 2 to 3 times per week once established, dependant on weather conditions..

755 PLANTING MAINTENANCE - FERTILIZER

- Time of year: March or April.
- Fertilizer: To manufacturer's recommendations..
 - Manufacturer: To manufacturer's recommendations..
 - Product reference: To manufacturer's recommendations..
- Application: Evenly spread, carefully incorporating below mulch materials.
- Application rate: To manufacturer's recommendations..

760 PLANTING MAINTENANCE - PRUNING

- General: Prune to promote healthy growth and natural shape.
 - Dead, dying, diseased wood and suckers: Remove.
 - Timing: As appropriate to the species.
- Trees: Favour a single central leading shoot.
- Arisings: Remove.