Originating Office	
The Jewellery Business Centre **95 Spencer Street** **Birmingham** **B18 6DA**	

Project

VASTERN ROAD
R E A D I N G

Specification Title	Discipline	Document	Clause / No	Cisfb Ref		Rev
External Planting	L	SPEC		**Q31**		P02
O453-FIR10-XX-XX-SPC-L-810-0003	Document Status Planning					

Originating Manager Responsible			
QA System – Checks			Date
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Revisions

Rev	Date	Description / Details	Author	Checked Date-Initials		Authorised Date-Initials	
P01	12.04.24	First Issue. Issued for Planning	AW	RS	12.04.24	RS	12.04.24
P02	***20.03.25***	***Issued for Planning***	***EO***	***RS***	***20.03.25***	***RS***	***20.03.25***

To be read with Preliminaries/General conditions.

50 SCOPE

60 INTERFACE

70 CO-ORDINATION

GENERAL INFORMATION/ REQUIREMENTS

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.
- Large roots: Grub up and dispose of without undue disturbance of soil and adjacent areas.

118 SOIL CONDITIONS
- Soil for cultivating and planting: Moist, friable and not (excepting aquatic/marginal planting) 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.
- 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.
- Container grown plants: Late October to late March.
- Aquatic and marginal planting: May/June or September/October
- Planting out of season can only be carried out by prior agreement with CA

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.
- Refer to 0448-FIR10-XX-XX-SPC-L-810-0004 Q35 clauses 537-538 for specific tree watering requirements.

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.
- Certified materials: For each of the following materials submit a certificate giving supply source, content analysis, confirmation of suitability for purpose and confirmation of absence of harmful substances:
  - Certified materials: Sanitised and stabilised compost
  - Give notice before ordering or using.

167 SOIL REQUIREMENTS
- Type
  - Planted beds: Refer to Q28
  - Tree pits, shrub pits and other backfilling: Refer to Q28
  - External container planting: Refer to Q28
  - Mulch applied after planting: To clause 485

170 SETTING OUT
- Clearly mark boundaries of planting areas and location of trees and obtain approval before starting work.

PLANT MATERIAL GENERALLY
SOURCING & INSPECTION

201 APPROVED NURSERIES
- All plant material specified is to be grown for this contract by one of the nurseries named below, or another supplier to be agreed with Landscape Architect:

  Trees and Specimen Shrubs
  1. Hillier Trees – Tel: 01794 368 733, www.hillier.co.uk
  2. Deepdale Trees – Tel: 01767 26 26 36, mail@deepdale-trees.co.uk, www.deepdale-trees.co.uk
  3. Van den Berk Nurseries – Tel: +31 (0)413 480 480, info@vdberk.co.uk, www.vdberk.com

  Shrubs and Herbaceous Stock
  1. Johnsons of Whixley – Tel: 01423 330234, info@nurserymen.co.uk, www.nurserymen.co.uk
  2. Robin Tacchi Plants – Tel: 01953 681312, RTP@robintacchiplants.com, www.robintacchiplants.com
  3. Crowders Nurseries – Tel: 01507 525000, enquiries@crowders.co.uk, www.crowdersnurseries.co.uk

210 SOURCING
- Obtain plants from an approved source with soil and climatic conditions similar to those prevailing on site. All plant material should be sufficiently hardened off prior to delivery to site.
- All plant material will be inspected, reserved and selected at source, by the CA. Material will be

clearly identified for the contract. The CA may visit the stock at any other time as necessary. The contractor should allow in his price for any visits abroad for inspection and reservation of plant material.

- Plant material may be imported as necessary if unavailable in the UK. The contractor should state in his tender the Country of origin and the Nursery supplying the material.
- Foreign plant material must be obtained from an approved nursery.
- The Contractor is to state in his tender the source of plant material which he intends using on site. Single species from more than one source must be of the same clonal type and cultivar, and be similar in form, root structure and size.

211 SUBSTITUTES

- The tender must be based on plants which are available. If specified plants are unobtainable alternatives may be submitted with tender, stating price and how they differ from the specification. Such substitutions may not be acceptable and submission of further alternatives may be required. Obtain approval before making any substitution.

214 SOURCE

- Contractor is to state in his tender the source(s) of plant material which he intends using on site. Single species from more than one source must be of the same clonal type and cultivar, and be similar in form, root structure and size.

215 RESERVATION OF STOCK

- Trees to be selected by Landscape Architect at the beginning of the contract reserved and if necessary grown to size.

218 INSPECTION OF THE PLANT MATERIAL

- Pre-delivery inspection: All plant material will be inspected by CA before supplying to site, then clearly identified as being reserved for use on this project. Security tags with serial numbers will be provided by the contractor and will be used on the reserved trees.
- Plants considered by the CA not to meet the standards set out in this Specification shall be rejected and shall be replaced by the Contractor with plants of the required standard at the Contractors own expenses.
- If all the plant material is not available for inspection the contractor shall bear all costs of further visits.
- If the plant material is being imported the contractor should allow in the tender for all travel costs of the CA during inspection.

FORM & CONDITION OF PLANTS

220 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 National Plant Specification and balanced with branch system.
- Species: True to name.
- Origin/ Provenance: Provide dicumentation
  - Origin and Provenance have the meaning given in the National Plant Specification.

221 PLANTS/ TREES - SPECIFICATION CRITERIA

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

223 PLANT SIZES

- All plants are to be supplied at the sizes specified on the attached schedule.
- Trees: specified by girth of trunk at 1 metre from soil level and/or height and classification according to NPS.
- Shrubs: where plants are spreading in habit then initial spread is specified all other measurements refer to height from soil level. If a container size is specified the plant is to have been grown in that container for one full growing season prior to planting.

224 TREES

- All trees shall bear a single, upright central leader unless otherwise stated in the Schedule. They shall be true of character with well developed crowns with uniform shoot and foliage development typical for species or type. All stems and shoots shall be free from abrasions and stem girdling.

225 FEATHERED TREES

- Shall have a well developed lateral branch structure furnishing the main stem to, at, or near ground level as appropriate to species and cultivar. The size of feathered species of trees shall be stated as a height measured from the nursery mark. Girth may be indicated in the schedules.

226 STANDARD TREES

- Shall have reasonably straight, upright stems and accord with the dimensions given in the Schedule. The crown shall be well-developed for its type and evenly balanced, with no main branch crossing the crown.

227 MULTISTEMMED TREES

- Shall generally be feathered unless otherwise stated and of a size defined by height and number of stems at ground level. More than one plant is not acceptable as a multistemmed specimen.

228 CONIFERS

- Are to be furnished from the base to the top according to the species and show regular growth with uniform branches, with the exception of the last growth of the year for vigorous species. Species with upright habit have only a single straight and continuous main stem. There are some exceptions such as Ginkgo, Taxus, Thuya and Tsuga, which may have several main stems. The branches are well furnished with needles according to species.

229 ROOTBALLED

- The trees have a good well-formed root ball, with dimensions according to the species and size of the tree. The diameter of the root ball is usually at least 3 times the size of the girth, measured at 1 metre above ground level.

230 SEMI MATURE

- Semi mature trees are to be well spaced on the nursery, grown with a distance between the rows which is larger than the diameter of the crown, transplanted at least 4 times, and 5 times for conifers, the last transplantation a maximum of 6 years before lifting.
- The head of deciduous trees will have been pruned 4 to 5 times since the transplantation.
- Conifers will be well furnished and evenly branched.
- Obtain from Europe if necessary.
- Best quality trees only.
- Advice on return of tender of source.
- Return photographs of typical stock of each variety specified.

232 ADVANCED NURSERY STOCK

- As defined in the National Plant Specification and size categories as scheduled. Advise on return of tender of source.

233 NURSERY STOCK

- As defined in the National Plant Specification and size designation as scheduled.

234 TRANSPLANTS
- These must be vigorous and robust plants as defined in the National Plant Specification and as scheduled. In addition, bushy plants are required with a good fibrous root system. Sizes are listed in the attached schedule. At the end of the first growing season transplant roots and shoots should be "topped and tailed", pruned to a height of 100-150mm before growing on the specified size. Transplants should have a minimum of 5 breaks. Transplants to be supplied in bundles of twenty.

235 WHIPS
- Whips must be vigorous and robust plants as defined in the National Plant Specification and as scheduled. In addition, bushy plants are required with a good fibrous root system. Whips should have a minimum of 7 breaks. Sizes are listed in the attached schedules and supplied in bundles of no more than ten.

236 SHRUBS
- As defined in the National Plant Specification and as scheduled. All shrubs shall be true to character, well developed brushes and with uniform shoot and foliage development typical for the species or type. All plants shall be measured according to height and spread. Shrubs should be vigorous and bushy with at least five breaks. Shrubs in pots over 5L to be grown for this project over 2 growing seasons. All others for one season.

238 HEDGES
- As defined in the National Plant Specification and as scheduled. Consistent in species, cultivar and clone to ensure a uniform hedge.

239 PRE-FORMED HEDGES
- Hedges will be clipped to shape and size specified in the schedule. They will be fully furnished and bushy with no gaps. If grown as a linear group or 3D group they will be grown in position and that position labelled when dispatching. The tops of the hedges will have been grown to a level with bushy fresh new growth. Trees cut down to hedge height will not be acceptable.

241 CLIMBERS
- Climbers should be vigorous with lateral shoots. Each specimen should be supplied on a cane. For specimen climbers specified in pots over 7.5L plants must be supplied on an individual trellis.

242 HERBACEOUS
- Well rooted, healthy, hardy and not less than one year of full growth. All herbaceous plants shall have a strong healthy crown of a size approximate for the container size and species.

243 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.

244 BULBS/ CORMS/ TUBERS
- Condition: Firm, entire, not dried out or shrivelled.
- Health: Free from pests, diseases and fungus.
- Handling: Remove from packaging immediately.
- Storage: Permitted only when necessary.
  - Location: Well ventilated, dark, covered, rodent proof container, away from exhausts and fruit.

- Duration: Minimum period.
- Temperature: 18-21°C.

246 LABELLING AND INFORMATION
- Standard: To BS 3936.

265 PLANT/ TREE HANDLING, STORAGE AND TRANSPORT
- Standard: To HTA 'Handling and establishing landscape plants'
- 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: Co extruded polythene bags with black interior and white exterior.
- Packaging of bulk quantities: Racked crates not cardboard boxes sealed with polyethylene and shrink wrapped. EHS and SM trees protect stems with bubble wrap. In addition, later in the season protect stems with cardboard sleeves.
- Shrink wrap rootballs if planting Mid April or later.

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.

275 PERMANENT IDENTIFICATION OF PLANTS
- Labels: Plastic with weatherproof lettering.
- Wording: Species and variety of each plant/tree.

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.

285 PROTECTION OF EXISTING GRASS
- General: Protect areas affected by planting operations using boards/ tarpaulins. Do not place excavated or imported materials directly on grass.

286 PROTECTION
- Adequately protect the work from damage by weather, traffic and other causes.

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

358 SOIL AMELIORANT/ CONDITIONER
- Type: Sanitized and stabilized compost.
- Standard: To BSI PAS 100.
- Horticultural parameters:

- pH (1:5 water extract): 7.0-8.7.
- Electrical conductivity (maximum, 1:5 water extract): 200 mS/m.
- Moisture content (m/m of fresh weight): 35-55%.
- Organic matter content (minimum): 25%
- Grading (air dried samples): 99% passing 25 mm screen, and 90% passing 10 mm screen mesh aperture.
- Carbon:Nitrogen ratio (maximum): 20:1.

• Texture: Friable.
• Objectionable odour: None.
• Composting Association certification: Submit
• Coverage: 25-50mm thick

• 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 200 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 Q28.
  - Within 25mm adjacent to buildings and 50mm elsewhere 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

400 PLANT LAYOUT

• Spacing: Refer to planting plans / schedules
• Density: Refer to planting plans / schedules

405 SHRUB PLANTING PITS

• Timing: Excavate 1-2 days (maximum) before planting.
• Sizes: 150 wider than roots when full spread min 200 deep.
• Additional requirements: Increase dimensions where necessary to ensure pits are at least 75mm deeper than root system and wide enough to accommodate roots when fully spread.
• Pit bottom improvement Break up to a depth of 150mm microparting.
• Backfilling material: As clause 476

410 BURIED GEL IRRIGATION SYSTEM

• Manufacturer: Agricultural Polymers International Ltd, Tel 0191 385 8348
  - Product reference: Broadleaf P4 granules to be applied at 100g/m2 and cultivated into soil
• Depth: To maintain contact with root ball, minimum 20-30cm
• Accessories: None

415 ANTIDESSICANT FOR CONIFERS/ EVERGREENS

• Manufacturer: Vitax Ltd, Owen Street, Coalville, Leicester, LE67 3DE. Tel: 01530 510060.
  - Product reference: Wiltpruf S600

  Application: Dip before delivering to site. Spray soon after planting.
  - Do not apply in wet or frosty weather.

417 MYCORRHIZAL INOCULANT

- Manufacturer: Plant Works Ltd, Tel 01795 411 527
  - Product reference: Rootgrow Professional
- Application: Apply to roots of bare root plants before planting and backfilling, as scheduled.

435 CLIMBING PLANTS USED AS GROUND COVER
- Planting:
  - Canes or other supports: Remove.
  - Arrangement: Spread stems.
- Fixing: Pinned to ground to ensure good contact.

445 PLANTING BULBS/ CORMS/ TUBERS
- Depth: Top of bulb/ corm/ tuber at a depth of approximately twice its height, base in contact with bottom of hole.
- Backfilling: Finely broken soil. Lightly firm to existing ground level.
- Naturalized planting in existing grassed areas:
  - Scattering: Random. Plant bulbs/ corms/ tubers where they fall.
  - Planting: Neatly remove a plug of turf and replace after planting.

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.

471 NATURALIZED HEDGES
- Planting: In trenches large enough to take full spread of roots. Set out plants evenly.

472 FENCING SUPPORT FOR NEW HEDGES
- Type: Timber post and general pattern wire mesh.
- Standard: To BS 1722-2.
- Height: 600 mm.
- Timing: Before planting hedge.
- Support: Lightly secure hedge plants to fence wires at appropriate intervals.

476 BACKFILLING MATERIAL
- Composition: Previously prepared mixture of topsoil excavated from pit and additional topsoil as required, together with:
  - Ameliorant: As required following topsoil analysis

  Coverage: As required following topsoil analysis

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: Mulch and top dressing to Q28.
  - Depth: 75mm.

485 MULCHING ORNAMENTAL & NATIVE PLANTING BEDS & PLANTERS
- Material: Composted fine bark
- Manufacturer: Melcourt Industries, Boldridge Brake, Long Newnton, Tetbury, Gloucestershire GL8 8RT. Tel: 01666 502711
  - Reference: Composted Fine Bark 0-12mm
- Preparation: Clear all weeds, water soil thoroughly and mulch the whole surface of planting beds.
- Coverage: 50mm minimum depth to be incorporated into top 150mm of topsoil

PLANTING TREES

500 ANTIDESSICANT FOR CONIFERS/ EVERGREENS

- Manufacturer: As clause 415.
- Product reference: Wiltpruf S600.
- Application: Dip in or thoroughly spray with antidesiccant before delivering to site. Apply again soon after planting.
  - Do not apply in wet or frosty weather.
  - Ensure full coverage of underside of foliage.

505 TREE PITS

- Excavate with slightly raised centre. Retain topsoil for reuse where specified. In sloping ground, maintain horizontal bases and vertical sides with no less than minimum depth throughout.
- Size:

Bush whip and small feathered:	diameter: 600
Standard and large feathered:	diameter: 900
Tall standard:	diameter: 1200
Advanced nursery stock	diameter: 1500
Semi mature	diameter: 2100

- Depth: Topsoil depth is to equal the depth of the rootball (to a maximum depth of 500mm) below which is to be either a free draining subsoil or washed sand to a depth of 200mm.
- Below this is to be 200mm depth of washed pea gravel.
- Increase above dimensions as necessary to accommodate roots/rootball.
- Break up bottoms of pits to a depth of 250 for large trees, 100 for ordinary nursery stock and scarify sides.
- Backfilling material: to clause 586 in 150mm layers

506 UNDERGROUND CRATE SYSTEM TO PROVIDE TREE / SHRUB ROOTING VOLUME

- Locations: Refer to Landscape General Arrangement drawings (0448-FIR10-XX-XX-DR-L-810-1001 – 1006).
- Manufacturer: DeepRoot Urban Solutions, Ltd, Suite 51, 101 Clapham High Street, London, SW4 7TB
  - Tel: 020 3848 4230
  - Product reference: Silva Cells.
- Installation: Refer to manufacturer’s drawings.

510 TREE PIT ROOT BARRIERS

- Locations: Adjacent to services or in-ground foundation
- Manufacturer: GreenBlue Urban, Northpoint, Compass Park, Junction Road, Bodiam, TN32 5BS Tel: 01580 830 800.
  - Product reference: ReRoot 1000 or 600 as appropriate.
- Depth of top of root barrier below finished soil level: 10mm.
- Installation: With sides vertical.

515 TREE PIT DRAINAGE

- Depth of excavation: Increase from specified size to allow for aggregate layer, with base slightly falling to outlet.
- Aggregate layer: Clean gravel or broken stone, with no fines, graded 40 to 20 mm.
  - Depth: 200mm
- Drainage pipes:
  - Type: PVC Perforated.
  - Size: 100 mm diameter.
  - Lay around perimeter of pit within aggregate layer and connect to soakaway or land drains as shown on drawings.
- Geotextile filter:
  - Manufacturer: Fiberweb Geosynthetics Ltd, Blackwater Trading Estate, The Causeway, Maldon, Essex CM9 4GG. Tel: 01621 874200
  - Product reference: Terram T700.

- Lay over aggregate before completing backfilling.
- Complete pits: Test for free drainage before planting.

525 UNDERGROUND ANCHORS FOR SEMI-MATURE TREES TO HARD & SOFT LANDSCAPE AREAS - 20-25cm GIRTH & ABOVE

- Standard: Prepare roots and transplant to BS 4043.
- Backfilling material: As clause 586.
- Support: Trees in shrub beds: support with low double stakes with cross bar to clause 575.
- Trees in grilles: Support with rootball anchors.
  - Manufacturer: Platypus Anchors, Kingsfield Business Centre, Philanthropic Road, Redhill, Surrey, Tel 01737 762 300.

535 STAKING GENERALLY

- Stakes: Softwood, peeled chestnut, larch or oak, straight, free from projections and large or edge knots and with pointed lower end.
- Nails: To BS 1202-1, galvanized, minimum 25 mm long and with 10 mm diameter heads.
- Minimum stake sizes: Sufficient to adequately support tree

536 TREE TIES

- Size: To suit nursery stock.
- Manufacturers:
  - Toms Tree Ties, 7 Marley Farm, Headcorn Road, Smarden, Ashford, Kent, TN27 8PJ, Tel. 01233 770066.
  - Rubberloc, Allscott Park, Allscott, Telford, Shropshire, TF6 5DY Tel. 01952 641949

575 SHORT DOUBLE STAKING SEMI-MATURE TREES TO HARD & SOFT LANDSCAPE AREAS – 18-20cm GIRTH & BELOW

- 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.
- Trees: Applicable to trees with girth of 18-20cm & above
- Cross bar: Wood as stake.
  - Firmly fix on windward side of tree and as close as possible to stem.
- Ties: As clause 536.
- Tying: Secure tree firmly but not rigidly to cross bar.

576 WOODSTAIN TO TREE STAKES

- Paint all stakes and crossbars with 2 No. coats of black woodstain.

577 ORIENTATION OF STAKES

- Orientate stakes to same side of tree and direction.

580 TREE IRRIGATION

- Install to tree pits housing trees of 18-20cm girth & upward a tree irrigation pipe with lid
  - Manufacturer: GreenBlue Urban, Northpoint, Compass Park, Junction Road, Bodiam, TN32 5BS Tel: 01580 830 800
  - Reference: Rootrain Metro or Urban as appropriate, size to suit rootball

586 BACKFILLING MATERIAL

- A previously prepared mixture of topsoil excavated from the pit and additional topsoil as required, together with:
- Tree planting compost/topsoil 50:50 mix.
  - Manufacturer: Melcourt Industries, Boldridge Brake, Long Newnton, Tetbury, Gloucestershire GL8 8RT. Tel: 01666 502711
  - Reference: Topgrow

- Fertilizer: Slow release.
  - Reference: Sierrablen at 140g per tree
  - Manufacturer: Everris Limited, Epsilon House, West Road, Ipswich IP3 9FJ Tel: 01844 8094470

590 MULCHING TREES
- Material: As clause 485.
  - Coverage: 75mm.

595 TREE PROTECTION TO AREAS OF NEW NATIVE TREE/SHRUB PLANTING
- Manufacturer: Tubex, 12-14 Aberaman Park, Aberdare, Wales, CF44 6DA: Sales@tubex.com: +44(0)1685 888 020 or similar approved
  - Product reference: TREEGUARD mesh Tree Shelter Guard
  - Type: 60cm x 80-110mm
- Size/ Colour: Black
- General: Ensure that protection methods do not impede natural movement of trees or restrict growth.

598 AFTER PLANTING
- Water trees thoroughly and if instructed by CA, prune deciduous trees. Shorten side shoots and competing leaders and remove unwanted shoots to give a well balanced branch system. Where necessary reduce head by removal or shortening of shoots.

WOODLAND/ MATRIX/ BUFFER ZONE PLANING

645 PLANTING IN TURF
- Preparation: Cut and upturn a turf of minimum 600 mm square.
- Notching: Make a vertical slit from the centre of the turf, to the side away from the prevailing wind, deep enough to accommodate full depth of roots.
- Planting: Plant tree, close notch with root collar at ground level and firm the soil.

661 PIT PLANTING IN IMPORTED TOPSOIL
- Excavate pit size at least 300mm diameter and 300mm deep but large enough to accommodate root spread at each planting station and:
  - Plant tree or shrub in pit to correct depths and spread out roots;
  - Backfill pit with imported topsoil and well firm;
  - Spread excavated spoil not exceeding 50mm deep over ground around the pit.
- Fertilizer to Q28.

663 FERTILISING
- Apply around each plant and lightly work into top layer of soil at a rate of 70g/m² during planting .

680 SETTING OUT
- Planting density: Refer to planting plans / schedules
- Layout: Random groups of no less than 3 or more than 7 of the same species, ensuring that no three plants are aligned in any one direction.

PROTECTING/MAINTAINING/MAKING GOOD DEFECTS

700 MAINTENANCE UP TO PRACTICAL COMPLETION
- Carry our maintenance operations in accordance with section Q35.

711 MAINTENANCE POST PRACTICAL COMPLETION
- Carry out maintenance operations in accordance with Q35.

720 FAILURES OF PLANTING (PRACTICAL COMPLETION)

- Any trees/shrubs/plants which are dead, missing, dying or otherwise defective at Practical Completion will be regarded as defects due to materials or workmanship not in accordance with the Contract. They must be replaced by approved equivalent trees/shrubs/ plants before practical completion unless otherwise instructed.

721 FAILURES OF PLANTING (POST PRACTICAL COMPLETION)

- Defects Liability Period:
- Including theft or malicious damage after practical completion, any trees/shrubs/plants that have failed to thrive, which are apparent during the period stated, will be regarded as defects due to materials or workmanship not in accordance with the Contract. Unless otherwise instructed they must be replaced by approved equivalent trees/shrubs/plants and replanted before the end of December.
- Replacements must match the size of adjacent or nearby plants of the same species or should match the original specification, whichever is the greater.
- Replacements will be subject to a further 12 months defects period.

725 PROGRAMME

- The contractor should submit a programme of maintenance visits for approval before Practical Completion.

727 MAINTENANCE RECORD SHEETS

- The landscape contractor should complete and forward the Maintenance Record Sheet (attached) at the end of each visit.
- Failure to comply may result in non payment for maintenance visits.

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
- 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.
- 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: As required to support healthy growth

755 PLANTING MAINTENANCE - FERTILIZER

- Time of year: March or April.
- Fertilizer: Slow release fertilizer.
  - Manufacturer: Everris Limited, Epsilon House, West Road, Ipswich IP3 9FJ. Tel: 0844 8094470.
  - Product reference: Sierrblen Flora.

- Application: Evenly spread, carefully incorporating below mulch materials.
- Coverage: 70g/m2.

760 PLANTING MAINTENANCE - PRUNING

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

765 PLANTING MAINTENANCE - WATERING

- General: As clauses 145

780 MAINTENANCE INSTRUCTIONS

- General: Before end of the period stated in clause 710, submit printed instructions recommending procedures to be established by the Employer for maintenance of the planting. The contractor shall prepare a schedule of preventive/positive maintenance for a 5 year period.

790 FINAL MULCHING

- Timing: At end of the period stated in clause 710.
- Watering: Ensure that soil is thoroughly moistened prior to remulching, applying water where necessary.
- Ornamental & Native Planting beds: Remulch as clause 485.
- Coverage: 50m.
- Trees: Remulch as clause 590.
- Coverage: 50mm.