

**EXTERNAL WORKS: SOFT LANDSCAPE SPECIFICATION**

Galloper Wind Farm Sub Station, Sizewell  
March 2013

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3505 Galloper Wind Farm

March 2013

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Comment FINAL

*This document has been prepared and checked in accordance with ISO 9001:2000.*

## Table of Contents

Title		Page
Q28	Topsoil and soil ameliorants	5
Q30	Seeding/turfing	11
Q31	External planting	15
Q35	Landscape maintenance	23
Q40	Fencing	27

**Q28**

**Topsoil and soil ameliorants**

## Q28 Topsoil and soil ameliorants

To be read with Preliminaries/ General conditions.

### SYSTEM OUTLINE

### PRODUCTS

- 300 PREPARATION MATERIALS GENERALLY
- Purity: Free of pests and disease.
  - Foreign matter: On visual inspection, free of fragments and roots of aggressive weeds, sticks, straw, subsoil, pieces of brick, concrete, glass, wire, large lumps of clay or vegetation, and the like.
  - Contamination: 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 or planting media, do not use subsoil contaminated with the above materials.
  - Objectionable odour: None.
  - Give notice: If any evidence or symptoms of soil contamination are discovered on the site or in topsoil or planting media to be imported.
- 323 RETAINED TOPSOIL FROM WORKS ASSOCIATED WITH GWF CONSTRUCTION
- Strip topsoil and subsoil and stockpile as spec clause Q28 690, keeping each excavation works segregated until ready to complete the proposed earth modelling on the North, West and South boundaries of the GWF sub station and other areas of reinstatement.
- 324 SOIL STRATEGY
- A detailed soil strategy shall be prepared before site preparation works commence, informed by the results of soil testing. The objective is to use different soils for the most suitable planting or seeding areas so that it is suitable for the type of vegetation community being created. The preliminary strategy is as follows, which shall be reviewed, developed in more detail and if necessary, modified following the results of soil testing prior to any soil stripping operations.

#### Topsoil or subsoil from existing areas

- Topsoil from Sizewell Wents Wood Woodland Edge
- Topsoil from Broom Covert and, if there is any spare topsoil, proposed Open Grassland Habitat
- Topsoil from arable fields
- Subsoil suitable for creating acid grassland habitat
- Grassland Habitat

#### Proposed area

- Proposed Woodland Core and
- Restored grassland within Broom
- Restored arable field
- Remaining areas of Open

356 SOIL AMELIORANT / CONDITIONER WOODLAND CORE / WOODLAND EDGE / HEDGEROW

- Biogran - Dried Sewage Sludge
- SC Technology AG  
Wessex House  
Passage Street  
Bristol  
BS2 0JQ

Tel: 01179757715

Apply evenly over topsoil at 10kg of material per sqm before final cultivation and incorporate to full depth of 250mm of topsoil or as Soil Scientist Soil Report recommendations.

357 SOIL AMELIORANT / CONDITIONER GRASSLAND MARGIN

- Biogran - Dried Sewage Sludge
- SC Technology AG  
Wessex House  
Passage Street  
Bristol  
BS2 0JQ

Tel: 01179757715

Apply evenly over **specified planting area only and not in areas to be open grassland habitat** at 10kg of material per sqm before final cultivation and incorporate to full depth of 250mm of topsoil or as Soil Scientist Soil Report recommendations.

**EXECUTION**

611 ANALYSIS

- Soil to be analysed: Topsoil and subsoil stockpiles.
- Soil analyst: Submit proposals.
- Samples: Collect in accordance with BS 3882.
- Submit:
  - Declaration of analysis: Nutrient content, pH value and textural classification.
  - Report detailing soil analyst's recommendations.

640 DOCUMENTATION FOR PREPARATION MATERIALS FOR IMPORTED SOIL IMPROVERS

- Timing: Submit at handover.
- Contents:
  - Full description of all components.
  - Record of source for all components.
  - Analyst's report for each test carried out.
  - Supplier's declaration of compliance with BSI PD CR 13456.
- Number of copies: 1.

- 651 NOTICE
- Give notice before:
    - Setting out.
    - Spreading topsoil.
    - Applying herbicide.
    - Applying fertilizer and soil improvers.
    - Visiting site during maintenance period.
  - Period of notice: One week.
- 655 MECHANICAL TOOLS
- Restrictions: Do not use within 100 mm of tree and plant stems.
- 661 GRADING SUBSOIL
- General: Grade to smooth flowing contours to achieve specified finished levels of topsoil.
  - Loosening:
    - Light and non-cohesive 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.
  - Areas of thicker topsoil: Excavate locally.
  - Avoid over compaction.
- 666 SUBSOIL SURFACE PREPARATION
- General: Excavate and/ or place fill to required profiles and levels.
  - Loosening:
    - Light and non-cohesive 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 100 mm.
  - Remove from site: contaminants and debris.
- 670 INSPECTING FORMATIONS
- Give notice: Before spreading topsoil for all areas to receive planting.
  - Notice period: 7 days.
- 680 SURPLUS TOPSOIL TO BE RETAINED
- Generally: Spread and level on site:
    - Locations: Contact the Landscape Architect for guidance on location.
    - Protected areas: Do not raise soil level within root spread of trees that are to be retained.
- 691 TOPSOIL STORAGE HEAPS
- Location: TBC.
  - Height (maximum): 2.0 m.
    - Formation: Loose tip and shape from the side only, without running machinery on the heap at any time.
  - 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.

- 695 CULTIVATION
- Compacted topsoil: Break up to full depth.
  - Tilth: Loosen, aerate and break up topsoil to a tilth suitable for blade grading.
    - Depth: 250 mm.
    - Particle size (maximum): 2-8 mm.
    - Timing: Within a few days before planting.
    - Weather and ground conditions: Suitably dry.
  - Surface: Leave regular and even.
  - Levels: As drawing XXX.
  - Undesirable material brought to the surface: Remove visible weeds, roots and large stones with any dimension exceeding 75 mm.
  - Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate.
- 701 GRADING OF TOPSOIL OR SUBSOIL WHERE IT IS USED AS TOPSOIL Grassland and planted areas
- Topsoil condition: Reasonably dry and workable.
  - Contours: Smooth and flowing, with falls for adequate drainage.
    - Hollows, ridges and scrapes permitted to promote a diverse landscape habitat - Landscape Architect to approve on site
  - Finished levels after settlement: 25 mm above adjoining paving, kerbs, manholes etc.
  - Give notice: If required levels cannot be achieved by movement of existing soil.
- 702 GRADING OF TOPSOIL Arable fields
- Topsoil condition: Reasonably dry and workable.
  - Contours: Smooth and flowing, with falls for adequate drainage.
    - Hollows and ridges: Not permitted
  - Finished levels after settlement: 25 mm above adjoining paving, kerbs, manholes etc.
  - Give notice: If required levels cannot be achieved by movement of existing soil.
- 705 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 or stockpile 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 less 3%, to BS 1377-2.
- 710A SPREADING TOPSOIL WOODLAND CORE AND WOODLAND EDGE
- Temporary roads/ surfacing: Remove before spreading topsoil.
  - Layers:
    - Depth (maximum): 250 mm.
    - Gently firm each layer before spreading the next.
  - Depths after firming and settlement (minimum): 500 mm.
  - Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.
  - Do not spread topsoil taken from arable field or Sizewell Wents Wood where proposed open grassland or grassland margin is shown. These areas only require suitable and approved subsoil substrate.



- 721 FINISHED LEVELS OF TOPSOIL AFTER SETTLEMENT
- Within root spread of existing trees: Unchanged.
  - Adjoining soil areas: Marry in.

**Q30**  
**Seeding/turfing**

## Q30 Seeding/turfing

To be read with Preliminaries/General conditions.

### GENERAL INFORMATION/REQUIREMENTS

- 116 SEEDED AREAS
- Growth and development: Healthy, vigorous grass sward, free from the visible effects of pests, weeds and disease.
- 120 CLIMATIC CONDITIONS
- General: Carry out the work while soil and weather conditions are suitable.
- 161 NOTICE
- Give notice before:
    - Setting out.
    - Applying herbicide.
    - Applying fertilizer.
    - Preparing seed bed.
    - Seeding.
    - Visiting site during maintenance period.
  - Period of notice: 1 week.
- 170 SETTING OUT
- Boundaries: Mark clearly.
  - Delineation: In straight lines or smoothly flowing curves as shown on drawings.

### PREPARATION

- 210 HERBICIDE FOR ALL GRASSED AREAS
- Type: Suitable for suppressing perennial weeds.
  - Timing: Allow fallow period before cultivation.
    - Duration: As manufacturer's recommendation.
- 281 FINAL CULTIVATION
- Timing: After grading.
  - 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: 50 mm
  - Adjacent levels: Extend cultivation into existing adjacent areas sufficient to ensure full marrying in of levels.

## **SEEDING**

- 313 SEED MIXTURE FOR ACID GRASSLAND HABITAT
- Supplier: TBC.
    - Mixture reference: TBC.
  - Origin (as defined in the National Plant Specification): Locally collected.
  - Application rate: TBC.
- 319 QUALITY OF SEED FOR ACID GRASSLAND HABITAT
- 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.
- 336 WILDFLOWER SOWING SEASON
- Wildflower seed generally: March to May or August to October.

## **PROTECTING/CUTTING**

- 540 FIRST CUT OF ACID GRASSLAND AREAS
- Height of initial growth: TBC.
  - Preparation:
    - Debris and litter: Remove.
    - Stones and earth clods larger than 25 mm in any dimension: Remove
  - Height of first cut: TBC.
  - Mower type: TBC.
  - Arisings: TBC.
- 550 AREAS NOT TO BE CUT
- Do not cut:  
TBC.
- 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.

**MAINTENANCE**

611 FAILURES OF SEEDING

- Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
- Defective materials or workmanship: Areas that have failed to thrive.
  - Exclusions: Theft or malicious damage.
- Method of making good: Recultivation and reseeded.
- Timing of making good: The next suitable planting season.

651 MAINTAINING ACID GRASSLAND AREAS

- Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
- Preparation: Before each cut remove all litter and debris.
- Height and frequency of cut in first growing season:
  - Time of first cut: TBC.
  - Height of first cut: TBC.
  - Frequency of subsequent cutting (minimum): TBC.
  - Height of growth permitted (maximum): TBC.
- Height and frequency of cut in second growing season:
  - Time of cut: TBC.
  - Height of cut: TBC.
- Trimming: All edges.
  - Arisings: Remove.
- Watering: TBC.

**Q31**  
**External planting**

### Q31 External planting

To be read with Preliminaries/General conditions.

#### GENERAL INFORMATION/ REQUIREMENTS

- 110 PROTECTIVE FENCING AND CONTROL OF PESTS
- Before planting commences in the woodland areas, the Contractor must install deer and rabbit proof protective fencing as specified in Q40 and be satisfied the plantation areas are free from pests including rabbits.
- 113 SITE CLEARANCE GENERALLY
- General: Remove rubbish, concrete, metal, glass, decayed vegetation and contaminated soil.
  - Stones: Remove those with any dimension exceeding 75 mm.
  - Contamination: Remove material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.
  - Strim herbaceous vegetation to 50mm height to proposed hedge planting beds, 1.5m wide. Remove arisingsLarge roots: Grub up and dispose of without undue disturbance of soil and adjacent areas.
  - Additional requirements: N/A.
- 119 SOIL CONDITIONS
- Soil for cultivating and planting: Moist, friable and not waterlogged.
  - Frozen or snow covered soil: Planting not permitted
- 120 CLIMATIC CONDITIONS
- General: Carry out the work while soil and weather conditions are suitable.
    - Strong winds: Do not plant.
- 126 TIMES OF YEAR FOR PLANTING
- 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.
    - Watering and weed control: Provide as necessary.
- 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.

- 161 NOTICE
- Give notice before:
    - Setting out.
    - Applying herbicide.
    - Applying fertilizer.
    - Delivery of plants/ trees.
    - Planting shrubs.
    - Planting trees
    - Watering.
    - Visiting site during maintenance period.
  - Period of notice: One week.
- 165 PREPARATION, PLANTING AND MULCHING MATERIALS
- General: Free from toxins, pathogens or other extraneous substances harmful to plant, animal or human life.
  - Certification of source, analysis, suitability for purpose and absence of harmful substances: Submit.
    - Certified materials: Dried sewage sludge and bark mulch.
    - 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: Balanced with branch system.
    - Standard: The National Plant Specification.
  - Species: True to name.
  - Origin/ Provenance: British provenance.  
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: N/A.
- 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.
- 265 PLANT HANDLING, STORAGE TRANSPORT AND PLANTING
- Standard: To HTA 'Handling and establishing landscape plants'.
  - Frost: Protect plants from frost.
  - Handling: Handle plants 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.
  - Planting: Upright or well balanced with best side to front.
- 285 PROTECTION OF EXISTING GRASS
- General: Protect areas affected by planting operations using boards/ tarpaulins.
    - Excavated or imported material: Do not place directly on grass.
    - Duration: Minimum period.
- 290 SURPLUS MATERIAL
- Subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, rubbish, prunings and other arisings: Remove.

### **PREPARATION OF PLANTING BEDS/ PLANTING MATERIALS**

- 376 CULTIVATION WOODLAND CORE / WOODLAND EDGE / HEDGES
- Compacted topsoil: Break up to full depth.
  - Cultivation: Loosen, aerate and break up soil into particles of 2-8 mm.
    - Depth: 250 mm.
    - Timing: Within a few days before planting.
    - Weather and ground conditions: Suitably dry.
  - Surface: Leave regular and even.
  - Levels: As drawing ???.
  - Undesirable material brought to the surface: Remove visible weeds, roots and large stones with any dimension exceeding 75 mm.
  - Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate.
  - Cultivate hedge beds to full length and 1.5m width
- 377 CULTIVATION GRASSLAND MARGIN
- Compacted subsoil: Break up to full depth in areas to be planted only.
  - Cultivation: Loosen, aerate and break up soil into particles of 2-8 mm.
    - Depth: 250 mm.
    - Timing: Within a few days before planting.
    - Weather and ground conditions: Suitably dry.
  - Surface: Leave regular and even.
  - Levels: As drawing ???.
  - Undesirable material brought to the surface: Remove visible weeds, roots and large stones with any dimension exceeding 75 mm.
  - Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate.

### **PLANTING SHRUBS/ HERBACEOUS PLANTS/ BULBS**

- 417 MYCORRHIZAL INOCULANT
- Manufacturer: Rootgrow.
    - Product reference: Professional.
  - Application: Apply to roots of bare root plants before planting and backfilling.
- 474 NOTCH PLANTING OR PIT PLANTING BARE ROOT
- Notching: Make a vertical 'I', 'L', 'T' or 'H' notch.
    - Depth: To accommodate full depth of roots.
  - Excavate pit large enough to take full spread of roots.
- 481 AFTER PLANTING
- Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil, if conditions are dry seek instruction.
  - 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: Amenity grade bark mulch with less than 10% fines. 1m wide strip the full length of the hedge.
    - Depth: 75mm.

487 MULCHING PLANTING BEDS

- Material: Course grade mulch sourced from site chipped vegetation cleared as part of the enabling works. Mulch to be stored and matured for at least 6 months prior to spreading.
  - Purity: Free of pests, disease, fungus and weeds.
  - preparation: Clear all weeds. Water soil thoroughly.
- Coverage: 100 mm depth.

**WOODLAND PLANTING**

600 WOODLAND WORK GENERALLY

- Services: Check for below and above ground services, including land drainage, in the vicinity. Give notice if they may be affected and obtain instructions before proceeding.
- Safety: Comply with Arboriculture and Forestry Advisory Group Safety leaflets.

626 CULTIVATION

- General: Ripping at 500 mm centres to 500mm depth.
- Do not rip hedge bed along Sizewell Gap Road
- Consolidation: Leave for one month.
- Soil within root spread of trees to be retained: Do not plough or cultivate.

630 GENERAL ROOT DIP

- Immediately before planting the bare roots or cell grown plants will be immersed in a root dip, that will inoculate the roots of all species of endo and ecto-mycorrhizal trees and shrubs with live spores of endomycorrhizae (Species : Glomus clarum, G. intradices, G. moeae, G. deserticola, G. brasilianum, G.monosporus and Gigaspora margarita) or live spores of ectomycorrhizae (Species : Pisolithus tinctorius, Rizapogon Sp.). The dip to also contain beneficial soil bacteria and fungi, bio-stimulants plus sea kelp, humic acid, yucca plant extracts and hydrogels. Do not apply in rainy or frosty weather.

Contact Symbio Tel 01372 456 101, fax 01372 456 099 for supply details.

666 SETTING OUT WOODLAND CORE

- Refer to planting schedules and typical planting schematic shown on drawing 3505/200-204 and 300
- Plant single species in groups and the density as per plant schedule
- Plant a maximum 100% of the total woodland core zone

667 SETTING OUT WOODLAND EDGE

- Refer to planting schedules and typical planting schematic shown on drawing 3505/200-204 and 300
- Plant single species in groups and the density as per plant schedule
- Plant a maximum 70% of the total woodland edge zone

668 SETTING OUT GRASSLAND MARGIN

- Refer to planting schedules and typical planting schematic shown on drawing 3505/200-204 and 300
- Plant single species in groups and the density as per plant schedule
- Plant a maximum 50% of the total grassland margin zone

**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 or as instructed by the CA.
- Frequency of maintenance visits: Monthly during growing season and as necessary to fulfil the requirements of this specification.

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: By 31 December of the year in which the defect is identified.

73I PROTECTIVE FENCING

- Woodland and hedge to be protected with fencing.
- Hedge to be protected by fenced enclosure, 1.5 wide and full length of hedge.

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.

75I 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.
  - Hedges: 1.5m width for full length of hedge
  - Keep planting beds clear of weeds: By use of approved non-residual herbicides.
- 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 six months.
- Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs.
- Watering: as necessary to ensure plant establishment and survival.

771 PLANTING MAINTENANCE

- Watering: Only as necessary to prevent plants wilting.
- Loose plants: Refirm surrounding soil, without compacting.
- Weed control: Cut down and remove weeds prior to setting seed in a 1 m diameter area around each plant and within the fenced hedge area.
- Vegetation except trees and coppice shoots to be retained: Cut within the woodland plantation areas.
  - Height (maximum): 25 mm.
  - Frequency: Twice a year in June and September
  - Arisings: Leave between rows.
- Mechanical, chemical or mulching methods of vegetation control: Submit proposals.
- Ditches and drains: Keep clear.
- Watering: When instructed.

**Q35**

**Landscape maintenance**

## Q35 Landscape maintenance

To be read with Preliminaries/ General conditions.

### GENERALLY

#### I06 MAINTENANCE OBJECTIVES

- Works to be maintained for five years during the rectification period

#### I10 NOTICE

- Give notice before:
  - Application of herbicide.
  - Application of fertilizer.
  - Watering.
  - Each site maintenance visit.
- Period of notice: 7 days.

#### I30 REINSTATEMENT

- Damage or disturbance to soil structure, planting, grass, fencing, hard landscaping, structures or buildings: Reinstate to original condition.

#### I41 CONTROL OF MAMMALIAN PESTS

- The proposed woodland areas are protected by deer proof fencing and rabbit proof mesh as specified in Q40. The Contractor must install the protective fence in advance of any planting and perform regular checks of the fenced areas to establish are free from pests including rabbits.
  - Method: The Contractor is to submit details how they intend to control pests if found on site.

#### I56 WATERING

- Supply: No site supply available, submit proposals.
- Quantity: Wet full depth of topsoil.
- Application: Do not damage or loosen plants.
- Compacted soil: Loosen or scoop out, to direct water to rootzone.
- Frequency: As schedule and when instructed.

#### I60 WATER RESTRICTIONS

- General: If water supply is, or is likely to be, restricted by emergency legislation, submit proposals for an alternative suitable source of water. Obtain instructions before proceeding.

#### I71 DISPOSAL OF ARISING

- General: Unless specified otherwise, dispose of arising by removing from site.

#### I90 LITTER

- Extraneous rubbish not arising from the contract work: Collect and remove from site.

#### I97 CLEANLINESS

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

### **GRASSED AREAS**

- 212 MAINTENANCE OF GRASSED AREAS *Grass cutting regime TBC by GWF ecologist*
- General: Maintain turf in a manner appropriate to the intended use.
  - Soil and grass:
    - Condition: Maintain a healthy vigorous sward, free from disease, fungal growth, discolouration, scorch or wilt.
    - Waterlogging and compaction: Prevent.
    - Damage: Repair trampling, abrasion or scalping.
  - Litter: Remove regularly to maintain a neat appearance.
- 221 GRASS CUTTING GENERALLY
- Before mowing: Remove litter, rubbish and debris.
  - Finish: Neat and even, without surface rutting, compaction or damage to grass.
  - Adjoining hard areas: Sweep clear and remove arisings.
  - Drought or wet conditions: Obtain instructions.
- 226 TREE STEMS
- Precautions: Do not allow nylon filament rotary cutters and other mechanical tools closer than 100 mm to the stem of any tree.
    - Operations close to stems: Complete using hand tools.

### **SHRUBS/TREES/HEDGES**

- 501 ESTABLISHMENT OF NEW PLANTING
- Duration: Five years.
  - Weed control:
    - Method: Keep planting beds clear of weeds by use of suitable herbicides.
    - Area: Maintain a weed free area around each tree and shrub, minimum diameter the larger of 1 m or the surface of the original planting pit
    - Hedges. 1m wide for full length of hedge
  - Watering: as necessary to ensure survival of plants.
- 616 TRIMMING FIELD HEDGES
- Operations: Trim to specified height and profile using suitable mechanical cutters.  
Hedge along Sizewell Gap Road to be allowed to grow to, and then maintained at, approximately 3-4m height and 2m width at base, to 'A' profile, cut once a year between October and February.
- 620 REMOVAL OF DEAD PLANT MATERIAL
- Operations: At the end of the growing season, check all shrubs and remove all dead foliage, dead wood, and broken or damaged branches and stems.
- 671 WEED CONTROL WITH SUMMER HERBICIDE
- Type: Suitable foliar acting herbicide.
- 711 PLANTING MAINTENANCE
- Watering: In exceptional circumstances to prevent plants dying.
  - Loose plants: Refirm surrounding soil, without compacting.
  - Vegetation: Except trees and coppice shoots to be retained, cut down to 75 mm above ground level within the plantation areas.
    - Arisings: Leave between rows.
  - Ditches and drains: Keep clear.



**HARD LANDSCAPE AREAS/FENCING**

920 FENCING

- Fences: Inspect and repair to maintain protection against stock and rabbits.

**Q40**  
**Fencing**

## Q40 Fencing

To be read with Preliminaries/ General conditions.

### FENCING SYSTEMS

#### III CHAIN MESH RABBIT PROOF FENCING

- Manufacturer: Submit proposals.
  - Product reference: Submit proposals.
- Standard: To BS 1722-1, type PZA 90A.
- Height: 800 mm.
- Mesh and wire: Zinc coated mesh and line wire.
- Posts and struts: Post 1.8m long x 100 diameter softwood with pointed end. Strut 1.8m long x 60mm diameter.
  - Treatment: To provide a 15 year service life.
- Centres of posts (maximum):
  - Straining posts: 50 m in straight runs and at all ends, corners, changes of direction and acute variations in level.
  - Intermediate posts: 3 m.
- Method of setting posts and struts:
  - Straining posts: Driven to a minimum depth of 750 mm.
  - Struts: 300 x 450 mm holes, 450 mm deep filled with excavated material, well rammed as filling proceeds.
  - Intermediate posts: Driven to a minimum depth of 600 mm.
- Accessories: Galvanized (barbed) staples 30mm x 3.15mm.
- Conformity: Submit manufacturer's and installer's certificates, to BS 1722-1.

153 DEER FENCING WITH RABBIT PROOFING MESH

- Manufacturer: Submit proposals.
  - Product reference: Submit proposals.
- Standard: To BS 1722-2, type DW 180.
- Design:
  - 1.9m above ground
- Wire: Carbon steel wire, 4 mm diameter.
- Posts, struts and inter posts: Post 2.7m long x 125mm Diameter. Strut 2.4m long x 100mm. Inter Posts 2.4m long x 75mm diameter.
  - Treatment: To provide a 15 year service life.
  - Finish: Contractor's choice.
- Maximum centres of posts:
  - Straining posts: 50 m in straight runs and at all ends, corners, changes of direction and acute variations in level.
  - Intermediate posts: 3-4 m.
- Mesh
  - HT13/190/15
- Method of setting posts and struts:
  - Driven
    - Accessories: Rabbit proof netting.
  - Galvanised, 31mm hole size, 1050mm height
  - Finished height: Minimum of 750-800mm above ground
  - Staples: Max of 30mm
    - Bottom: dug in to the ground 50mm and turned outside 200mm
- Conformity: Submit manufacturer's and installer's certificates, to BS 1722-2.

154 POST AND WIRE FENCE

- Manufacturer: Submit proposals.
  - Product reference: Submit proposals.
- Standard: To BS 1722-2, type SW 120.
- Wire: Carbon steel wire, 4 mm diameter.
- Posts and struts: 150mm Diameter wood post and 100mm diameter strut.
  - Treatment: To provide a 15 year service life.
  - Finish: Contractor's choice.
- Maximum centres of posts:
  - Straining posts: 50 m in straight runs and at all ends, corners, changes of direction and acute variations in level.
  - Intermediate posts: 3.5 m.
- Method of setting posts and struts:
  - Driven
- Conformity: Submit manufacturer's and installer's certificates, to BS 1722-2.

**GATES AND STILES**

509 FIELD GATES AND POSTS

- Deer proof maintenance gates and stiles with rabbit-proof mesh to be provided in locations shown on drawings. Gate posts to be set in concrete foundations.

511 FIELD GATES AND POSTS

- Manufacturer: Submit proposals
  - Product reference: Submit proposals.  
Standard: To BS 3470.
- Size: 1900 mm high x 3000 mm wide.
- Materials: Wood gate and posts.
  - Treatment: To provide a 15 year service life.
  - Finish: Submit proposals.
- Fittings: Two hook and band hinges, return spring and a padbolt with padlock.
  - Finish: Hot dip galvanized to BS EN ISO 1461.
- Method of setting posts: Concrete foundation, 450 mm square x 750 mm deep.
- Accessories: Rabbit proof netting.
  - Galvanised, 31mm hole size, 1050mm height
  - Finished height: Minimum of 750–800mm above ground
  - Staples: Max of 30mm

**EXECUTION**

711 INSTALLATION GENERALLY

- Set out and erect:
  - Alignment: Straight lines.
  - Tops of posts: Following profile of the ground.
  - Setting posts: Rigid, plumb and to specified depth, or greater where necessary to ensure adequate support.
  - Fixings: All components securely fixed.

715 COMPETENCE

- Operatives: Contractors must employ competent operatives.
- Qualifications: Submit certification of training.
  - NHSS Sector Scheme 2A sub categories: (a).
  - NHSS Sector Scheme 2C sub categories: (a).

720 SETTING POSTS IN CONCRETE

- Standard: To BS 8500-2.
- Mix: Designated concrete not less than GEN1 or Standard prescribed concrete not less than ST2.
- Alternative mix for small quantities: 50 kg Portland cement to 150 kg fine aggregate to 250 kg 20 mm nominal maximum size coarse aggregate, medium workability.
- Admixtures: Do not use.
- Holes: Excavate neatly and with vertical sides.
- Filling: Position post/ strut and fill hole with concrete to not less than the specified depth, well rammed as filling proceeds and consolidated.
- Backfilling of holes not completely filled with concrete: Excavated material, well rammed and consolidated.

770 SITE CUTTING OF WOOD

- General: Kept to a minimum.
- Below or near ground level: Cutting prohibited.
- Treatment of surfaces exposed by minor cutting and drilling: Two flood coats of solution recommended for the purpose by main treatment solution manufacturer.

780 MAKING GOOD GALVANIZED SURFACES

- Treatment of minor damage (including on fasteners and fittings): Low melting point zinc alloy repair rods or powders made for this purpose, or at least two coats of zinc-rich paint to BS 4652.
- Thickness: Apply sufficient material to provide a zinc coating at least equal in thickness to the original layer.

**COMPLETION**

910 CLEANING

- General: Leave the works in a clean, tidy condition.
- Surfaces: Clean immediately before handover.

920 FIXINGS

- All components: Tighten.
  - Timing: Before handover.

930 GATES

- Hinges, latches and closers: Adjust to provide smooth operation. Lubricate where necessary.
  - Timing: Before handover.