

Morgan Sindall

Peak District (East) Visual Impact Provision

Landscape Specification

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RSK GENERAL NOTES

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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

This work has been undertaken in accordance with the quality management system of RSK Environment Ltd.

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D20
Excavating and filling

Clauses - Not Used

Generally/the site

112A Generally

1. This Landscape Specification shall be read alongside
2. Landscape and Ecology Management Plan 16866-RSK-1405-XX-PL-G-030000
3. • Morgan Sindall: Soft Landscape Design Sheets 1 through 10
   16866-RSK-0608-XX-DR-X-000001
   16866-RSK-0608-XX-DR-X-000002
   16866-RSK-0608-XX-DR-X-000003
   16866-RSK-0608-XX-DR-X-000004
   16866-RSK-0608-XX-DR-X-000005
   16866-RSK-0608-XX-DR-X-000006
   16866-RSK-0608-XX-DR-X-000007
   16866-RSK-0608-XX-DR-X-000008
   16866-RSK-0608-XX-DR-X-000009
   16866-RSK-0608-XX-DR-X-000010
4. Arboricultural Method Statement 16866-RSK-1406-XX-MS-X-000001
5. Landscape Management and Maintenance Plan16866-RSK-0608-XX-PL-X-000001
6. RSK ADAS Peak District (East) VIP Project Seed harvest assessment visit report (16/07/20)
7. 16866-RSK-1405-XX-PL-G-030003 Soil Management Plan

145A Variations in ground water level

1. Give notice to Landscape Clerk of Works (LCoW) and Morgan Sindall (MS): If levels encountered are significantly different from levels in the site investigation report or previously measured.
2. Water channels across site: River Don, water course running from Lower Windledon Reservoir and Long Grain which are culverts under the Trans Pennine Trail (TPT), and drainage ditch running alongside TPT are prone to high water volume.

150A Existing features

1. Site features to be retained: See Landscape Drawings and Revised Landscape and Ecological Management Plan for features to be retained and reinstated following construction.

Clearance/excavating

220A Stripping topsoil

1. General: Refer to Landscape Management and Maintenace Plan for additional information.
2. Depth
   2.1. Remove to an average depth of 400 mm where possible.
   2.2. Give notice where the depth of topsoil is difficult to determine.
3. Handling: Handle topsoil for reuse in accordance with clause 225.
4. Around trees: Do not remove topsoil from below the spread of trees to be retained. Observe root protection area for retained trees. Refer to Arboricultural Method Statement.
5. Site storage: Keep separate from excavated sub-soil

225A Handling topsoil

1. For further detail refer to Soil Management Plan (SMP) 16866-RSK-1405-XX-PL-G-030003
2. Standard: To BS 3882.
3. Aggressive weeds
   3.1. Species: Notify the presence of species included in the Weeds Act, section 2, or the appropriate Wildlife and Countryside Act for the relevant jurisdiction.
   3.2. Give notice: Obtain instructions before moving topsoil.
4. Contamination: Do not mix topsoil with:
   4.1. Subsoil, stone, hardcore, rubbish or material from demolition work.
   4.2. Other soil or material containing aggressive weeds, sharps, plastics and non soil forming materials and notifiable animal or plant diseases.
   4.3. Oil, fuel, cement or other substances harmful to plant growth.
   4.4. Other classifications of topsoil.
5. Asbestos: Refer to Asbestos Management Plan 16866-RSK-1405-XX-PL-G-030007
6. Multiple handling: Keep to a minimum. Use topsoil immediately after stripping.

330 Unrecorded features

1. Give notice: If unrecorded foundations, beds, voids, basements, filling, tanks, pipes, cables, drains, manholes, watercourses, ditches, etc. not shown on the drawings are encountered.

350A Existing watercourses (Ditch running alongside TPT)

1. Diverted watercourses which are to be filled: Before filling, remove vegetation growths and soft deposits.

Disposal of materials

420A Topsoil storage heaps

1. Location: Refer to 16866-RSK-1405-XX-PL-G-030003 Soil Management Plan
2. Standard: To BS 3882.
3. Height (maximum): 1m.
4. Width (maximum): 5m.
5. Protection
   5.1. Do not place any other material on top of storage heaps.
   5.2. Do not allow construction plant to pass over storage heaps.
   5.3. Prevent compaction and contamination.
   5.4. Cover topsoil to prevent weed growth

Filling

500A Proposed fill materials for mounding in Wogden Foot LWS

1. Details: Material used to create mound features will need to ensure that the overall characteristics of the substrate are not significantly altered to retain the target grassland habitat and nutrient poor conditions. If contamination issues limit the re-use of material from Wogden Foot LWS, then consideration should be given to the importing of inert materials including nutrient poor subsoils or aggregate.

   Submit full details of proposed fill materials to Morgan Sindall (MS), Ecology Clerk of Works (ECoW) and Landscape Clerk of Works (LCoW) demonstrate compliance with specification, including:

1.1. Type and source of imported fill.

1.2. Proposals for processing and reuse of material excavated on site.

1.3. Test reports as required elsewhere.

2. Timing: At least 21 days before starting filling

510A Hazardous, aggressive or unstable materials for mounding in wogden foot lws

1. General: All material used in reinstatement at Wogden Foot LWS to be checked for contamination. If reinstated material from site is contaminated, inert material is to be sourced in creation of mounds.
2. Do not use fill materials which would, either in themselves or in combination with other materials or ground water, give rise to a health hazard, damage to building structures or instability in the filling, including material that is:

2.1. Frozen or containing ice.

2.2. Organic.

2.3. Contaminated or noxious.

2.4. Susceptible to spontaneous combustion.

2.5. Likely to erode or decay and cause voids.

2.6. With excessive moisture content, slurry, mud or from marshes or bogs.

2.7. Clay of liquid limit exceeding 80 and/or plasticity index exceeding 55.

2.8. Unacceptable, class U2 as defined in the 'Specification for highway works', clause 601.

520A Frost susceptibility of inert material sourced for mounding at Wogden Foot LWS

1. General: Except as allowed below, fill must be non frost-susceptible as defined in the 'Specification for highway works', clause 801.8.
2. Do not use material, such as limestone or chalk which would cause alkaline soils
3. Frost-susceptible fill: May only be used:

3.1. At depths below the finished ground surface greater than: 600 mm

3.2. Where frost heave will not affect structural elements.

530A Placing fill to create mounding at Wogden Foot LWS

1. Surfaces of excavations and areas to be filled: Free from loose soil, topsoil, organic material, rubbish and standing water.
2. Freezing conditions: Do not place fill on frozen surfaces. Remove material affected by frost. Replace and recompact if not damaged after thawing.
3. Adjacent structures, membranes and buried services

3.1. Do not overload, destabilise or damage.

3.2. Submit proposals for temporary support necessary to ensure stability during filling.

3.3. Allow 14 days (minimum) before backfilling against in situ concrete structures.

4. Layers: Place so that only one type of material occurs in each layer.
5. Earthmoving equipment: Vary route to avoid rutting.

535 Compaction generally

1. General: Compact fill not specified to be left loose as soon as possible after placing.
2. After compaction: Surface of each layer must be well closed, showing no movement under compaction plant, and without cracks, holes, ridges, loose material and the like.

3. Defective areas: Remove and recompact to full thickness of layer using new material.

610 Compacted filling for landscape areas

1. Fill: Material capable of compaction by light earthmoving plant.
2. Filling: Layers not more than 200 mm thick. Lightly compact each layer to produce a stable soil structure.

615 Loose tip filling for landscape areas

1. Filling: Do not firm, consolidate or compact when laying. Tip and grade to approximate levels in one operation with minimum of trafficking by plant.

Ω End of Section

F20
Natural stone rubble walling

Structural requirements

100 Dry stone wall reinstatement

1. Generally: Where existing dry stone wall is to be impacted by construction, it is to be reinstated to original condition and style.
2. Material: Use fallen stone where available. If additional stone is required, material must be locally sourced to match existing.
3. All works to BS EN 771-6 Specification for masonry units.
4. Works to be undertaken by Dry Stone Walling Association (DSWA) approved contractor.
5. It is preferrential to use a contractor with local knowledge of style and technique.

Ω End of Section

Q28
Topsoil and soil ameliorants

System outline

115 Soil system for grass swards

1. Description: For all grassed areas where soil translocation not possible
2. Composition
   2.1. Soil: Imported topsoil to BS 3882
   2.2. Ameliorants: Organic materials
   2.3. Accessories: None

145 Plant pit backfilling soil system

1. Description: For all tree, shrub and scrub planting
2. Composition
   2.1. Topsoil: Excavated material OR Imported topsoil to BS 3882
   2.2. Ameliorants: Organic materials/compost
   2.3. Accessories: None

Products

300A Preparation materials generally

1. Purity: Free of pests and disease.
2. 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.
3. Contamination: Do not use topsoil contaminated with subsoil, rubbish or other materials that are:
   3.1. Corrosive, explosive or flammable.
   3.2. Hazardous to human or animal life.
   3.3. Detrimental to healthy plant growth.
4. Subsoil: In areas to receive topsoil or planting media, do not use subsoil contaminated with the above materials.
5. Objectionable odour: None.
6. Give notice:
   6.1. If any evidence or symptoms of soil contamination are discovered on the site or in topsoil or planting media to be imported
   6.2. If soil compaction is evident following construction.

315A Imported topsoil to BS 3882

1. Description: For all planting areas
2. Existing topsoil on site to be used as a priority, if this is not possible then imported topsoil can be used.
3. Quantity: Provide as necessary to make up any deficiency of topsoil existing on site and to complete the work.
4. Standard: To BS 3882.

5. Classification: To be defined by the soil test results
6. Source: Submit proposals to Morgan Sindall and LCoW
   6.1. Product reference: Submit proposals to Morgan Sindall and LCoW

Execution

625 Sample loads

1. Description: For imported topsoil
2. Deliver to site a sample load: of 5kg
3. Give notice: Allow inspection before making further deliveries to site. Retain for comparison with subsequent loads.
   3.1. Notice period: 5 days

630A Documentation for imported topsoil

1. Description: For all planting areas
2. Timing: Submit at handover.
3. Contents
   3.1. Full description of all soil components.
   3.2. Record of source for all soil components.
   3.3. Record drawings showing the location and depth of all soils by type and grade.
   3.4. Declaration of analysis: in accordance with BS 3882:2015, clause 6 and Table 1.
4. Number of copies: Two

650A Notice

1. Give notice to LCoW before:
   1.1. Setting out.
   1.2. Spreading topsoil.
   1.3. Applying herbicide.
   1.4. Applying fertilizer.
   1.5. Visiting site during maintenance period.
2. Period of notice: 1 week

655 Mechanical tools

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

660A Grading subsoil for

1. Description: All planting areas
2. Standard: In accordance with BS 8601:2013.
3. General: Grade to smooth flowing contours to achieve specified finished levels of topsoil.
4. Loosening:
   4.1. Light and non-cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 300mm.
   4.2. Stiff clay and cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 450mm.
   4.3. Rock and chalk subgrades: Lightly scarify to promote free drainage.
   4.4. Areas of thicker topsoil: Excavate locally.
   4.5. Avoid compaction.

5. Areas of thicker topsoil:
6. Avoid compaction.

665A Subsoil surface preparation for

1. Description: All planting areas
2. Standard: In accordance with BS 3882.
3. General: Grade to smooth flowing contours to achieve specified finished levels of topsoil.
4. Loosening
5. Light and non-cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 300mm.
    5.1. Stiff clay and cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 450mm.
    5.2. Rock and chalk subgrades: Lightly scarify to promote free drainage.
6. Stones: Immediately before spreading topsoil remove stones larger than 50mm.
7. Remove from site: Arisings, contaminants and debris.

675 Preparation of undisturbed topsoil

1. Standard: In accordance with BS 4428.
    1.1. Grading and cultivation: To suit cultivation operations specified in Q31
2. Hard ground: Break up thoroughly.
3. Clearing: Remove visible roots and large stones with a diameter greater than 50 mm.
4. Areas covered with turf or thick sward: Plough or dig over to full depth of topsoil.
5. Fallow period (minimum): One month
    5.1. Weed control: At appropriate times treat with a suitable translocated nonresidual herbicide, contractor to submit weed control proposals to LCoW for approval.

700A Grading of topsoil

1. Topsoil condition: Reasonably dry and workable.
2. Contours: Smooth and flowing, with falls for adequate drainage.
    2.1. Hollows and ridges: Not permitted.
3. Give notice: If required levels cannot be achieved by movement of existing soil to Morgan Sindall/LCoW.

705 Handling topsoil

1. Standard: In accordance with BS 3882.
2. Aggressive weeds: Give notice and obtain instructions before moving topsoil.
3. Plant: Select and use plant to minimize disturbance, trafficking and compaction.
4. Contamination: Do not mix topsoil with:
    4.1. Subsoil, stone, hardcore, rubbish or material from demolition work.
    4.2. Other grades of topsoil.
5. Multiple handling: Keep to a minimum. Use or stockpile topsoil immediately after stripping.
6. Wet conditions: Handle topsoil in the driest condition possible. Do not handle during or after heavy rainfall, or when the moisture content is greater than the plastic limit.

710A Spreading topsoil on

1. Description: All planting areas
2. Standard: In accordance with BS 3882.

3. Temporary roads/ surfacing: Remove before spreading topsoil.
4. Layers
   4.1. Depth (maximum): Reinstate to original, if original profile not available then depth of 150 mm applies.
   4.2. Gently firm each layer before spreading the next.
5. Depth after firming and settlement: Original profile or 150mm
6. Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

715 Loose tipping of topsoil

1. Standard: In accordance with BS 3882.
2. General: Do not firm, consolidate or compact topsoil when laying. Tip and grade to approximate levels in one operation with minimum of trafficking by plant.

718 Final cultivation

1. Description: For all planting areas
2. Compacted topsoil: Break up to full depth.
3. Tilth: Loosen, aerate and break up topsoil to a tilth suitable for blade grading.
4. Depth: 150 mm
5. Particle size (maximum): 2-8 mm
6. Timing: Within a few days before planting
7. Weather and ground conditions: Suitably dry.
8. Surface: Leave regular and even.
9. Levels: To existing levels along route
10. Undesirable material brought to the surface
    10.1. Remove visible weeds.
    10.2. Remove roots and large stones with any dimension exceeding 50 mm.

720A Finished levels of topsoil after settlement

1. In relation to adjoining Trans Pennine Trail: 25 mm below
2. In relation to adjacent grass areas: flush
3. Seeded areas: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.
4. Within root spread of existing trees and shrubs to be retained: Do not dig or cultivate.
5. Adjoining soil areas: Marry in.

Ω End of Section

Q30
Seeding

General information/requirements

110 Note

1. The proposed seeding areas are shown on Morgan Sindall: Soft Landscape Design Sheets 16866-RSK-0608-XX-DR-X series and the mixes are specified in 310, 310B and 310C below.

115A Seeded areas

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

120 Climatic conditions

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

145A Watering

1. Quantity: Wet full depth of topsoil if necessary.
2. Application: Even and without displacing seed, seedlings or soil.
3. Frequency: As necessary to ensure the establishment and continued thriving of all seeding.

150A Water restrictions

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

160A Notice

1. Give notice to Morgan Sindall and LCoW before:
    1.1. Setting out.
    1.2. Applying herbicide.
    1.3. Applying fertilizer.
    1.4. Preparing seed bed.
    1.5. Seeding.
    1.6. Visiting site during maintenance period.
2. Period of notice: 1 week

170A Setting out

1. Boundaries: Mark clearly.
2. Delineation: As shown on drawings.

Preparation

210A Herbicide

1. Description: For all seeded areas
2. Type: Suitable for suppressing perennial weeds.
3. Timing: Allow fallow period before cultivation.

3.1. Duration: As manufacturer's recommendation

4. NOTE: Herbicide not to be sprayed in areas of Wogden Foot LWS where soil translocation or seed harvesting have taken place. Weeds are to be hand pulled primarily, but can spot treated with non-residual herbicide if more suitable.

Seeding

299A Note

1. Refer to Peak District (East) Visual Impact Provision Landscape Management and Maintenance Plan 16866-RSK-0608-XX-PL-X-000001 for detailed information on seed mixes and their maintenance regimes.

   Refer to 16866-RSK-1405-XX-PL-G-030003 Soil Management Plan for topsoil translocation and reinstatement.

310A Wildflower grassland seed mix

1. To be used on areas of disturbed ground left bare following construction to act as an establishment crop, allowing for natural recolonization of wildflower and grassland species found in the local area including:
   - Former SEC site
   - Along the TPT route, including the bridleway
   - Pylon removal locations (see 2.11 of 16866-RSK-0608-XX-PL-X-000001 – Landscape Management and Maintenance Plan for details)
   - Locations of Wogden Foot LWS where recolonisation of bare ground has failed and 310B is deemed inappropriate by local stakeholders, and agreed with Barnsley MBC and Yorkshire Wildlife Trust.
2. Mixture: 10% Agrostis capillaris (Common Bent)
   35% Cynosurus cristatus (Crested Dog's-tail)
   30% Festuca rubra (Slender-creeping Red-fescue)
   5% Phleum bertolonii (Smaller cat's-tail)
   20% Poa pratensis (Smooth-Stalked Meadow Grass)
3. Application rate: 5g/m²

310B Wogden Foot LWS Bespoke Seed Mix

1. Description: Areas of bare ground following construction at Wogden Foot LWS
   - Where soil translocation or seed harvesting is not possible
   - Where bare ground has not been re-colonised by local grass and wildflower species. Locally sourced seeds will be required
   - Mix will require approval by local stakeholders, and agreed with Barnsley MBC and Yorkshire Wildlife Trust.
2. Mixture:
3. Wildflower Species (20%)
   2.5% Centaurea nigra (Common Knapweed)
   3% Daucus carota (Wild Carrot)
   3% Galium verum (Lady's Bedstraw)
   2% Leucanthemum vulgare (Oxeye Daisy – Moon Daisy)
   2.5% Malva moschata (Musk Mallow)
   1% Plantago lanceolata (Ribwort Plantain)
   2.5% Poterium sanguisorba (Salad burnet)
   0.3% Prunella vulgaris (Selfheal)
   1.2% Rumex acetosa (Common Sorrel)
   2% Silene dioica (Red Campion)
   Grass Species (80%)
   10% Agrostis capillaris (Common Bent)

35% Cynosurus cristatus (Crested Dogstail)
30% Festuca rubra (Slender-creeping Red-fescue)
5% Phleum bertolonii (Smaller Cat's-tail)
20% Poa pratensis (Smooth-Stalked Meadow-grass)

4. Application rate: 5g/m²

310 C Bespoke Grassland with Herb Mix

1. Description
   1.1. Areas of bare ground following soil translocation near entrance to TPT. Location on Soft Landscape Design Sheet 3 of 10 16866-RSK-0608-XX-DR-X-000003
2. Mixture
   2.1. Bespoke Grassland with Herb Mix:

20% Wild Flowers
1.25% Achillea millefolium (Yarrow)
2.00% Centaurea nigra (Common Knapweed)
1.25% Galium verum (Lady's Bedstraw)
0.50% Lathyrus pratensis (Meadow Vetchling)
2.25% Leucanthemum vulgare (Oxeye Daisy)
0.05% Linum catharticum (Fairy Flax)
1.25% Lotus corniculatus (Birdsfoot Trefoil)
1.50% Plantago lanceolata (Ribwort Plantain)
2.25% Prunella vulgaris (Selfheal)
2.00% Ranunculus acris (Meadow Buttercup)
2.00% Rhinanthus minor (Yellow Rattle)
1.50% Silene flos-cuculi (Ragged Robin)
1.25% Trifolium pratense (Wild Red Clover)
0.95% Vicia sativa ssp segetalis (Common Vetch)

80% Grasses
5.00% Agrostis stolonifera (Creeping Bent)
7.50% Anthoxanthum odoratum (Sweet Vernal-grass)
10.0% Briza media (Quaking-grass)
30.0% Cynosurus cristatus (Crested Dogstail)
20.0% Festuca rubra (Slender Red Fescue)
7.50% Trisetum flavescens (Yellow Oat-grass)

3. Application rate:
   4g/m²

310 D Pylon Removal and Restoration Areas

1. Agricultural land will be reinstated to its original condition. No maintenance period once successful reinstatement to landowner satisfaction.
2. See 2.11 of 16866-RSK-0608-XX-PL-X-000001 – Landscape Management and Maintenance Plan for details

320A Quality of seed

1. Description: For all seeded areas
2. Freshness: Produced for the current growing season.
3. Certification: Blue label certified varieties.
   3.1. Standard: EC purity and germination regulations and Department for Environment, Food and Rural Affairs Higher Voluntary Standard.
   3.2. Official Seed Testing Station certificate of germination, purity and composition: Submit when requested to Morgan Sindall and LCoW.

4. Samples of mixtures: Submit when requested to Morgan Sindall and LCoW.

330 Sowing

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

340 Pre-emergent herbicide

1. Description: For all seeded areas (excludes soil translocation and seed harvesting areas in wogden foot lws)
2. Standard: Pesticide Safety Directorate approved.
3. Application rate: In accordance with manufacturer's written recommendation.
   3.1. Timing: Immediately after sowing.

Maintenance

610A Failures of seeding

1. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
2. Defective materials or workmanship: Areas that have failed to thrive.
   2.1. Exclusions: Theft or malicious damage.
3. Method of making good: Recultivation and reseeding.
4. Timing of making good: Submit proposals to Morgan Sindall and LCoW

Ω End of Section

Q31
External planting

General information/ requirements

99A General information/ requirements

1. The proposed planting areas are shown on Soft Landscape Design Drawings 16866-RSK-0608-XX-DR-X series

112A Site clearance generally

1. General: Remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil.
2. Stones: Remove those with any dimension exceeding 50 mm.
3. Contamination: Remove material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.
4. Vegetation: Clear surface vegetation of all Native Woodland, Native Woodland Edge/Scrub, Native Scrub Mix and Low Growing Native Scrub Mix (TPT Route) planting areas using suitable nonresidual herbicide
5. Large roots: Grub up and dispose of without undue disturbance of soil and adjacent areas.

118A Soil conditions

1. Soil for cultivating and planting: Moist, friable and not waterlogged.
2. Frozen or snow covered soil: Give notice to Morgan Sindall and LCoW before planting. Provide additional root protection. Prevent planting pit sides and bases and backfill materials from freezing.

120A Climatic conditions

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

125A Times of year for planting

1. Deciduous trees and shrubs: Late October to late March.
2. Conifers and evergreens: September/ October or April/ May.
3. Container grown plants: At any time if ground and weather conditions are favourable.
   3.1. Watering and weed control: Provide as necessary.
4. Wildflower plugs: Late August to mid November or March/ April.

130 Mechanical tools

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

145 Watering

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

150 Water restrictions

1. 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.

160A Notice

1. Give notice to Morgan Sindall and LCoW before:
    1.1. Setting out.
    1.2. Applying herbicide.
    1.3. Applying fertilizer.
    1.4. Delivery of plants/ trees.
    1.5. Planting shrubs.
    1.6. Planting trees into previously dug pits.
    1.7. Watering.
    1.8. Visiting site during maintenance period.
2. Period of notice: One week

165 Preparation, planting and mulching materials

1. General: All soft landscape items (such as plants, soil, mulch etc) are free from toxins, pathogens or other extraneous substances harmful to plant, animal or human life.
2. Certification of source, analysis, suitability for purpose and absence of harmful substances:
3. Submit;
    3.1. Certified materials: Submit an agreed sample quantity in advance for approval to Morgan Sindall and LCoW.
    3.2. Give notice before ordering or using.

200 Plants/ Trees – general

1. Condition: Materially undamaged, sturdy, healthy and vigorous.
2. Appearance: Of good shape and without elongated shoots.
3. Hardiness: Grown in a suitable environment and hardened off.
4. Health: Free from pests, diseases, discoloration, weeds and physiological disorders.
5. Budded or grafted plants: Bottom worked.
6. Root system and condition: Balanced with branch system.
    6.1. Standard: The National Plant Specification
7. Species: True to name.
8. Origin/ Provenance: Tree and shrub provenance will be a British selected seed stand, preferably growing in the same region of provenance as the planting site i.e. of local provenance. A certificate of provenance will be provided for all trees and shrubs.
9. Definition: Origin and Provenance have the meaning given in the National Plant Specification.

215 Plants/ Trees – specification criteria

1. Name, forms, dimensions, provenance and other criteria: As scheduled and defined in the National Plant Specification (available on CS Design Software Limited's website).

245 Labelling and information

1. 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:
    1.1. Full botanical name.
    1.2. Total number.
    1.3. Number of bundles.
    1.4. Part bundles.

1.5. Supplier's name.

1.6. Employer's name and project reference.

1.7. Plant specification, in accordance with scheduled National Plant Specification categories.

2. Additional information: Submit on request: Type of container.

255 Plants/ Trees reserved at supplier’s premises

1. Types/ Species: As plant schedule
2. Predelivery inspection: Give notice.
3. Labelling: Identify inspected plants/ trees as reserved for use on this project.

260 Plant/ Tree substitution

1. Plants/ trees unobtainable or known to be likely to be unobtainable at time of ordering: Submit alternatives, stating:
   1.1. Price.
   1.2. Difference from specified plants/ trees.
2. Approval: Obtain before making any substitution.

265A Plant handling, storage transport and planting

1. Standard: To Horticultural Trades Association (HTA) 'Handling and establishing landscape plants'.
2. Frost: Protect plants from frost.
3. Handling: Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
4. Plant packaging: Coextruded polyethylene bags with black interior and white exterior. All bare root plants to be supplied in bags containing and enclosing the whole root system
5. Transplants should be supplied with shoots and roots fully enclosed in the bag, whereas larger shrubs and trees should have only the root system enclosed. The bag should be coextruded polythene bags with black interior.
6. All plants shall be adequately packaged and protected during transportation from source to planting on site. To minimise storage of plant stock, operations are to be arranged so that trees and shrubs are planted immediately after each planting pit is prepared.
7. Packaging of bulk quantities: Pallets or bins sealed with polyethylene and shrink wrapped
8. Planting: Upright or well balanced with best side to front.

280 Treatment of tree wounds

1. Cutting: Keep wounds as small as possible.
   1.1. Cut cleanly back to sound wood using sharp, clean tools.
   1.2. Leave branch collars. Do not cut flush with stem or trunk.
   1.3. Set cuts so that water will not collect on cut area.
2. Fungicide/ Sealant: Do not apply unless instructed.

285 Protection of existing grass

1. General: Protect areas affected by planting operations using boards/ tarpaulins.
   1.1. Excavated or imported material: Do not place directly on grass.
   1.2. Duration: Minimum period.

290 Surplus material

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

Preparation of planting beds/ planting materials

300 Herbicide

1. Description: To clear weed growth from all native woodland planting, woodland edge/scrub plant and scrub planting and all areas to be seeded.
2. Locations: All planting areas (excluding Wogden Foot LWS, see clause 301)
3. Type: Suitable for supressing perennial weeds.
4. Timing: Allow fallow period before cultivation.
   4.1. Duration (minimum): As manufacturer's recommendation

301 Herbicide use within Wogden Foot LWS

1. Description: To clear weed growth from all native woodland planting, woodland edge/scrub plant and scrub planting and all areas to be seeded
2. Locations: All areas
3. Type: Suitable for supressing perennial weeds. Spot treatment of weeds only. Do not spray weeds.
4. Timing: Allow fallow period before cultivation.
   4.1. Duration (minimum): As manufacturer's recommendation

305A Weed control Wogden Foot LWS

1. Description: For invasive non-native weeds
2. Locations: Seeding at Wogden Foot LWS
3. General: Prevent weeds from seeding and perennial weeds from becoming established, by hand weeding and spot treatment.

385 Mulch matting/ Geotextile fabric

1. Description: To standard trees within native woodland mix
2. Manufacturer: Landscape contractor's choice
   2.1. Product reference: Submit proposals
3. Type: Jute
4. Recycled content: minimum 70%
5. Timing: Lay before planting.
6. Watering: Water soil thoroughly before laying.
7. Laying: In close contact with soil surface. Lap or butt joints as recommended by manufacturer, with no gaps.
8. Planting: Cut neat slits or flaps. Refit closely around plant stems.
9. Overlay: Not required

Planting shrubs/ herbaceous plants/ bulbs

399A Planting shrubs

1. NOTE - All shrub planting covers all plants within the Native Scrub Mix and Low Growing Native Scrub Mix (TPT Route).

400 Random plant layout

1. Description: To all native scrub and low growing native scrub mix (TPT route) planting

2. Spacing: As drawing 16866-RSK-0608-XX-DR-X-000001
3. Density: As plant schedule

405A Shrub planting

1. NOTCH PLANTING IN UNCULTIVATED GROUND:
2. Notching: Make a vertical 'I', 'L', 'T' or 'H' notch.
   2.1. Depth: To accommodate full depth of roots.
3. Planting: Plant tree, close notch with root collar at ground level and firm the soil

435A Climbing plants

1. Lonicera periclymenum within mix to be tied in to a neighbouring scrub plant to promote upright growth.
2. Planting
   2.1. Canes or other supports: Remove.
   2.2. Arrangement: Spread stems.
3. Fixing: Tie in to neighbouring plant to ensure good contact and provide growing support.

480A After planting

1. Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil.
2. 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.
3. Top dressing: Not required

486 Shrub protection

1. Manufacturer: Contractor to submit proposals
   1.1. Product reference: Submit proposals
2. Type: Round
3. Material: Recycled HDPE
4. Size: 0.6 m high x 175 mm diameter
5. Colour: Green
6. Support: Wooden stake and tie
7. General: Ensure that protection methods do not impede natural movement of shrubs or restrict growth.

Planting trees

499A General

1. Planting Trees covers Standards and Feathered trees in the Native Woodland Mix. Refer to Native Woodland Planting (Clause 600) for specification for planting trees 60-100cm in height.

500 Tree planting

1. Standard: Prepare trees and transplant in accordance with BS 8545

502 Antidesiccant for conifers/ Evergreens

1. Manufacturer: Submit proposals
   1.1. Product reference: Submit proposals
2. Application: Dip or thoroughly spray before delivering to site. Spray again soon after planting.

2.1. Do not apply in wet or frosty weather.

2.2. Ensure full coverage of underside of foliage.

505 Tree pits

1. Sizes: 75 mm deeper than root system and wide enough to accommodate roots when fully spread
2. Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout.
3. Excavated material: Separate topsoil and subsoil material and stockpile for backfilling
4. Pit bottoms: Excavate with slightly raised centre: Break up base to a depth of 150 mm.
   4.1. Treatment: Soil ameliorant worked into pit bottoms
5. Pit sides: Scarify.
6. Backfilling material: Excavated material from tree pit, installed to original soil profiles in accordance with BS 8545

535 Tree stakes

1. Stakes: Softwood, peeled chestnut, larch or oak, straight, free from projections and large or edge knots and with pointed lower end.
   1.1. Preservative treatment: To provide a 20 year service life
2. Stake size (minimum): 60 mm diameter
3. Stake length (minimum): 1800 mm

540 Single angled staking for

1. Description: All standard and feathered trees.
2. Staking
   2.1. Position: Close to tree position on windward or upslope side.
   2.2. Tying position: Approximately one third of the height of the clear stem of the tree to be planted.
   2.3. Driving: At an angle of 45° away from the tree position and at least 300 mm into bottom of pit before planting.
   2.4. Backfilling: Consolidate material around stake.
   2.5. Firming: Sufficiently firm to prevent movement of the rootball/ rootstock.
   2.6. Excess length: Cut off 200 mm above tree support position.
3. Ties: Adjustable
   3.1. Number of ties: One
4. Tying: Secure tree firmly but not rigidly to stake. Prevent tree from touching stake using spacer blocks or cushions if required.
5. Nails: To BS 1202-1, galvanized, minimum 25 mm long and with 10 mm diameter heads.

566 Tree protection

1. Manufacturer: Contractor submit proposals
   1.1. Product reference: Submit proposals
2. Type: Round
3. Material: Recycled HDPE
4. Size: Submit proposals
5. Colour: Green
6. Support: Single timber stake

7. General: Ensure that protection methods do not impede natural movement of trees or restrict growth.

570 Tree spats/ Mulch mats

1. Manufacturer: Green-Tech or equivalent approved
   1.1. Product reference: Ecomatt weed control fabric mat
   1.2. Material: Jute
   1.3. Size: 500 x 500 mm
2. Recycled content: 100%
3. Watering: Water soil thoroughly before laying.
4. Laying: In close contact with the soil surface.
   4.1. Fitting: Neatly and closely around tree stem, where necessary cutting a slit or flap.
   4.2. Fixing: Galvanized steel pins, 9 No. per mat at corners and edges
   4.3. Overlay: Not required

Woodland and Woodland Edge planting

600 Woodland work generally

1. 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.
2. Safety: Comply with Arboriculture and Forestry Advisory Group Safety leaflets.

605 Existing vegetation/ Weed clearance

1. Surface vegetation clearance: Screef an area one metre diameter around each planting location
2. Arisings: Remove.

635 Notch planting in uncultivated ground

1. Notching: Make a vertical ‘I’, ‘L’, ‘T’ or ‘H’ notch.
   1.1. Depth: To accommodate full depth of roots.
2. Planting: Plant tree, close notch with root collar at ground level and firm the soil.

680 Setting out

1. Planting density: As drawing 16866-RSK-0608-XX-DR-X-000001
2. Layout: Random groups of between 5 and 7 of the same species, ensuring that no three plants are aligned in any one direction.

Protecting/ maintaining/ making good defects

710A Maintenance of Scrub Mix and Seeded areas

1. All seeding, excluding at Wogden Foot LWS, and all scrub mix planting.
2. Duration: Carry out the operations in the following clauses from completion of planting until 5 years following practical completion.
3. Frequency of maintenance visits: In accordance with the agreed Landscape Maintenance Programme

710B Maintenance for Wogden Foot LWS Grassland

1. Duration: Carry out the operations in the following clauses from completion of planting until 7 years from practical completion.
2. Frequency of maintenance visits: In accordance with the agreed Landscape Maintenance Programme

710C Maintenance for Native Woodland and Woodland Edge/Scrub Planting outside the planning red line boundary

1. Refer to Landscape Management and Maintenance Plan16866-RSK-0608-XX-PL-X-000001 for further detail regarding planning boundaries and woodland/woodland edge planting management length
2. Duration: Carry out the operations in the following clauses from completion of planting until 5 years from practical completion.
3. Frequency of maintenance visits: In accordance with the agreed Landscape Maintenance Programme

710D Maintenance for Native Woodland and Woodland Edge/Scrub Planting within the planning red line boundary

1. Refer to Landscape Management and Maintenance Plan16866-RSK-0608-XX-PL-X-000001 for further detail regarding planning boundaries and woodland/woodland edge planting management length
2. Duration: Carry out the operations in the following clauses from completion of planting until 5 years from practical completion.
3. Frequency of maintenance visits: In accordance with the agreed Landscape Maintenance Programme

720 Failures of planting

1. Defects due to materials or workmanship not in accordance with the Contract: Plants/ trees/ shrubs that have failed to thrive.
   1.1. Exclusions: Theft or malicious damage after completion.
   1.2. Rectification: Replace with equivalent plants/ trees/ shrubs.
2. Replacements: To match size of adjacent or nearby plants of same species or match original specification, whichever is the greater. Replacement planting will only take place up to 5 years from practical completion.
3. Timing of making good: During the next suitable planting season

740 Cleanliness

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

750A Planting maintenance generally

1. Weed control: Maintain weed free area around each tree and shrub.
   1.1. Diameter (minimum): The larger of 1 m or the surface of original planting pit.
   1.2. Keep planting beds clear of weeds: By use of approved non-residual herbicides. Within Wogden Foot LWS hand pull or spot treat weeds
2. Precautions: Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools.
3. Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs.

4. Tree accessories: Check condition of stakes, ties, guys, guards and irrigation and ventilation systems.
   4.1. Broken or missing items: Replace.
   4.2. Loose stakes: Re-firm in the ground or replace as necessary to provide support to the tree.
   4.3. Loose guys: Re-firm anchor points and adjust as necessary to provide support to the tree.
   4.4. Ties: Adjust to accommodate growth and prevent constriction or abrasion.
   4.5. Damage to bark: Cut back neatly with sharp knife. Prevent further damage.
   4.6. Frequency of checks: At each scheduled maintenance visit
5. Watering: When instructed

760 Planting maintenance – pruning

1. General: Prune to promote healthy growth and natural shape.
   1.1. Dead, dying, diseased wood and suckers: Remove.
   1.2. Timing: In accordance with the agreed maintenance schedule
   1.3. Trees: Favour a single central leading shoot.
2. Arisings: Remove.

780 Maintenance instructions

1. General: Before end of the maintenance period, submit printed instructions recommending procedures to be established by the Employer for maintenance of the planting work for one full year: Provide a schedule of any ongoing maintenance problems experienced during the rectification period.

Ω End of Section



Specification created using NBS Chorus