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Eastleigh Borough Council

Eastleigh Stoke Park Farm SANG

23036 Specification for Landscape Works
- Revision 1

27-01-2025

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C20 Demolition

General requirements

110 Desk study/ survey

1. Scope: Before starting deconstruction/ demolition work, examine available information, and carry out a survey of: The site on which the structure or structures stand.
2. Report and method statements: Submit, describing:
 - 2.1. Form, condition and details of the structure or structures, the site, and the surrounding area.
 - 2.1.1. **Extent:** As detailed on demolition plans CD-LP-1-01 to CD-LP-1-13
 - 2.2. Type, location and condition of features of historical, archaeological, geological or ecological importance.
 - 2.3. Type, location and condition of adjoining or surrounding premises that might be adversely affected by removal of the structure or structures, or by noise, vibration and dust generated during deconstruction or demolition.
 - 2.4. Identity and location of services above and below ground, including those required for the contractor's use, and arrangements for their disconnection and removal.
 - 2.5. Form and location of flammable, toxic or hazardous materials, including lead-based paint, and proposed methods for their removal and disposal.
 - 2.6. Form and location of materials identified for reuse or recycling, and proposed methods for removal and temporary storage.
 - 2.7. Proposed programme of work, including sequence and methods of deconstruction or demolition.
 - 2.8. Details of specific pre-weakening required.
 - 2.9. Arrangements for protection of personnel and the general public, including exclusion of unauthorized persons.
 - 2.10. Arrangements for control of site transport and traffic.
 - 2.11. **Special requirements:** Site waste management plan development and proposals
 - Vehicles used
 - Access routes
 - Protection of grassland and features to be retained
3. Format of report: Contractor's choice.

120 Extent of deconstruction/ demolition

1. General: Subject to retention requirements specified elsewhere, deconstruct/ demolish structures down to Foundation level: Break up and dig out foundations.

130 Groundworks

1. Old foundations, slabs and the like: Not applicable.
2. Contaminated material: Remove and dispose of contaminated material to appropriate site
3. Removal of deleterious material: Remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil.
4. Ancillary items: Not applicable.

140 Benchmarks

1. Unrecorded benchmarks and other survey information: Give notice when found. Do not remove marks or destroy the fabric on which they are found.

150 Features to be retained

1. **General:** Keep in place and protect the following: Trees noted on drawings; protect in accordance with BS 5837.

Services affected by deconstruction and demolition

210 Services regulations

1. **Work carried out to or affecting new and/ or existing services:** Carry out in accordance with the by-laws and regulations of the relevant statutory authority.
Carry out in accordance with the requirements of individual private service providers.

220 Location and marking of services

1. **Services affected by deconstruction/ demolition work:** Locate and mark positions.
2. **Mains services marking:** Arrange with the appropriate authorities for services to be located and marked.
 - 2.1. **Marking standard:** In accordance with Street Works UK publication 'Guidance on the Positioning and Colour Coding of Underground Utilities' Apparatus'.

250 Live foul and surface water drains

1. **Drains and associated manholes, inspection chambers, gullies, vent pipes and fittings:** Protect and maintain normal flow during deconstruction or demolition.
Make good any damage arising from deconstruction or demolition work. Leave clean and in working order at completion of deconstruction or demolition work.

270 Services to be retained

1. **Damage to services:** Give notice, and notify relevant service authorities and/ or owner/ occupier regarding damage arising from deconstruction or demolition.
2. **Repairs to services:** Complete as directed, and to the satisfaction of the service authority or owner.

Deconstruction and demolition work

310 Workmanship

1. **Standard:** Demolish structures in accordance with BS 6187.
2. **Operatives**
 - 2.1. Appropriately skilled and experienced for the type of work.
 - 2.2. Holding, or in training to obtain, relevant Construction Skills certification of competence.
3. **Site staff responsible for supervision and control of work:** Experienced in the assessment of risks involved and methods of deconstruction and demolition to be used.

340 Health hazards

1. **Precautions:** Protect site operatives and general public from hazards associated with vibration, dangerous fumes and dust arising during the course of the works.

360 Structures to be retained

1. **Extent:** As drawings CD-LP-1-01 to CD-LP-1-13.
2. **Parts which are to be kept in place:** Protect. Give notice and notify service authority or owner of damage arising from the execution of the works.
3. **Interface between retained structures and deconstruction or demolition:** Cut away and strip out with care to minimize the amount of making good needed.

370 Partly demolished structures

1. **General:** Leave in a stable condition, with adequate temporary support at each stage to prevent risk of uncontrolled collapse. Make secure outside working hours.
2. **Temporary works:** Prevent overloading due to debris.
3. **Access:** Prevent access by unauthorized persons.

391 Asbestos-containing materials – unknown occurrences

1. **Discovery:** Give notice immediately of suspected asbestos-containing materials when discovered during deconstruction and demolition work. Avoid disturbing such materials.
2. **Removal:** Submit statutory risk assessments and details of proposed methods for safe removal.

410 Unforeseen hazards

1. **Discovery:** Give notice immediately when hazards such as unrecorded voids, tanks, chemicals, are discovered during deconstruction or demolition.
2. **Removal:** Submit details of proposed methods for filling, removal, etc.

442 Site surface at completion

1. **Topography:** Grade the site to follow the levels of adjacent areas.

450 Site condition at completion

1. **Debris:** Clear away and leave the site in a clean, tidy and secure condition.

Materials arising

510 Contractor's property

1. **Components and materials arising from the deconstruction and demolition work:** Property of the contractor, except for designated items which remain the property of the employer.
2. **Action:** Remove from site as work proceeds, where not to be reused or recycled for site use.

511 Employer's property

1. **Components and materials to remain the property of the employer:** Farm gates, fence posts.
2. **Protection:** Maintain until delivered to a required place of storage.
3. **Special requirements:** Separate reusable materials from unusable and report.

520 Recycled materials

1. **Materials arising from deconstruction and demolition work:** Can be recycled or reused elsewhere in the project, subject to compliance with the appropriate specification and in accordance with any site waste management plan.
2. **Evidence of compliance:** Submit full details and supporting documentation.
 - 2.1. **Verification:** Allow adequate time in programme for verification of compliance.

Ω End of Section

D20

Excavating and filling

Generally/the site

145 Variations in ground water level

1. Give notice: If levels encountered are significantly different from levels in the site investigation report or previously measured.

150 Existing services, features and structures

1. Services: Contractor's responsibility.
2. Site features to be retained: See section plans CD-LP-1-01 to CD-LP-1-13 for details.
3. Structures: Protect.

Clearance/excavating

164 Tree roots

1. Protected area: Do not cut roots within precautionary protection area.
 - 1.1. Size of area: Branch spread of the tree.
2. Excavation in protected area
 - 2.1. Method: By hand.
 - 2.2. Backfill as soon as possible or temporarily line with polyethylene sheet to reduce evaporation.
3. Outside protected area: Give notice of roots exceeding 25 mm and do not cut without approval.
4. Cutting
 - 4.1. Make clean smooth cuts with no ragged edges.
 - 4.2. Pare cut surfaces smooth with a sharp knife.
 - 4.3. Treatment of cut roots: Not required.
5. Backfill: As dug material, enriched with amelioration as section Q31.

168 Site clearance

1. Timing: Before topsoil stripping, if any.
2. General: Clear site of rubbish, debris and vegetation. Do not compact topsoil.
3. Treatment: Apply a suitable non-residual herbicide to areas to receive planting, except woodland planting areas.

170 Removing small trees, shrubs, hedges and roots

1. Identification: Clearly mark trees to be removed.
2. Small trees, shrubs and hedges: Cut down.
3. Roots: Grub up and dispose of without undue disturbance of soil and adjacent areas.
4. Safety: Comply with Forest Industry Safety Accord safety leaflets.

180 Chipping and shredding

1. General: Permitted, remove arisings from site.

220 Stripping topsoil

1. **General:** Before beginning general excavation or filling, strip topsoil from areas where there will be regrading, buildings, pavings/ roads and other areas shown on drawings.
2. **Depth**
 - 2.1. Remove to an average depth of 300 mm.
 - 2.2. Give notice where the depth of topsoil is difficult to determine.
3. **Handling:** Handle topsoil for reuse or sale in accordance with clause 225.
4. **Around trees:** Do not remove topsoil from below the spread of trees to be retained.
5. **Site storage:** Keep separate from excavated sub-soil.

225 Handling topsoil

1. **Standard:** To BS 3882.
2. **Aggressive weeds**
 - 2.1. **Species:** Notify the presence of species included in the Weeds Act, section 2, or the appropriate Wildlife and Countryside Act for the relevant jurisdiction.
 - 2.2. **Give notice:** Obtain instructions before moving topsoil.
3. **Contamination:** Do not mix topsoil with:
 - 3.1. Subsoil, stone, hardcore, rubbish or material from demolition work.
 - 3.2. Other soil or material containing aggressive weeds, sharps, plastics and non soil forming materials and notifiable animal or plant diseases.
 - 3.3. Oil, fuel, cement or other substances harmful to plant growth.
 - 3.4. Other classifications of topsoil.
4. **Multiple handling:** Keep to a minimum. Use topsoil immediately after stripping.

270 Foundations generally

1. **Give notice if**
 - 1.1. A natural bearing formation of undisturbed subsoil is not obtained at the depth shown on the drawings.
 - 1.2. The formation contains soft or hard spots or highly variable material.

310 Unstable ground

1. **Generally:** Ensure that the excavation remains stable at all times.
2. **Give notice:** Without delay if any newly excavated faces are too unstable to allow earthwork support to be inserted.
3. **Take action:** If instability is likely to affect adjacent structures or roadways, take appropriate emergency action.

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.

360 Excess excavation

1. **Excavation taken wider than required**
 - 1.1. **Backfill:** As clause 700.

370 Underground structures in landscape areas

1. **Generally:** Remove walls, roads, foundations, disused services, drains, manholes and the like to minimum depth.
2. **Minimum depth below finished levels**
 - 2.1. Grass, ground cover and perennial planting: 500 mm.
 - 2.2. Shrub planting: 750 mm.
 - 2.3. Within 2 m of tree planting: 1000 mm.

Disposal of materials

410 Excavated topsoil storage

1. **Storage:** Stockpile in temporary storage heaps at specified locations to be agree on site .

415 Excavated topsoil removal

1. **General:** Remove excess from site.

420 Topsoil storage heaps

1. **Location:** Agreed locations adjacent to areas for spreading.
2. **Standard:** To BS 3882.
3. **Height (maximum):** 1m.
4. **Protection**
 - 4.1. Do not place any other material on top of storage heaps.
 - 4.2. Do not allow construction plant to pass over storage heaps.
 - 4.3. Prevent compaction and contamination.

421 Topsoil storage heap treatment

1. **Treatment:** Apply a suitable herbicide at appropriate times to prevent seeding of weeds.

441 Surplus subsoil

1. **Excavated material:** Stockpile in temporary storage heaps.
2. **Retained material:** Spread and level surplus subsoil on site.
 - 2.1. **Locations:** As shown on drawings CD-LP-2-01, CD-LP-2-10, CD-LP-2-12 and CD-LP-2-13.
 - 2.2. **Protected areas:** Do not raise soil level within root spread of trees that are to be retained.
3. **Remaining material:** Remove from site.

450 Water

1. **Generally:** Keep all excavations free from water until:
 - 1.1. Formations are covered.
 - 1.2. Below ground constructions are completed.
 - 1.3. Basement structures and retaining walls are able to resist leakage, water pressure and flotation.
2. **Drainage:** Form surfaces of excavations and fill to provide adequate falls.
3. **Removal of water:** Provide temporary drains, sumps and pumping as necessary. Do not pollute watercourses with silt laden water.

454 Ground water level, springs or running water

1. **Give notice:** If it is considered that the excavations are below the water table.

2. **Springs/ Running water:** Give notice immediately if encountered.

Filling

500 Proposed fill materials

1. **Details:** Submit full details of proposed fill materials to 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.

510 Hazardous, aggressive or unstable materials

1. **General:** 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:
 - 1.1. Frozen or containing ice.
 - 1.2. Organic.
 - 1.3. Contaminated or noxious.
 - 1.4. Susceptible to spontaneous combustion.
 - 1.5. Likely to erode or decay and cause voids.
 - 1.6. With excessive moisture content, slurry, mud or from marshes or bogs.
 - 1.7. Clay of liquid limit exceeding 80 and/or plasticity index exceeding 55.
 - 1.8. Unacceptable, class U2 as defined in the 'Specification for highway works', clause 601.

530 Placing fill

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.

700 Backfilling around foundations

1. **Under grassed or soil areas:** Material excavated from the trench, laid and compacted in 300 mm maximum layers.

Bioremediation - Not Used

'specification for highway works: earthworks specification' appendices - Not Used

Ω End of Section

Q05

Biodiversity and environmental conservation

System outline

110 A Habitat creation type EF-1: hibernacula

1. **Description:** Shallow pits backfilled with specified materials and covered with turves.
2. **Habitat type:** Reptile hibernacula.
3. **Location:** As on drawings CD-LP-0-01 to CD-LP-0-13.
4. **Surveys required**
 - 4.1. **Prior to work commencing:** Not required.
5. **Scope of work:** Excavating and filling, as section D20.
6. **Details::** Prepare elliptical pit 0.5 m deep and approximately 1.5 m x 1.0 m, setting the topsoil grass turves aside.
Fill void with logs, stone, branches, brash and leaf mulch.
Replace loose soil and grass turves on top of backfill, leaving edges exposed.
Final height to be 0.5 m above adjacent ground level.
7. **Source data provided for reference/ verification:** Ecological Impact Assessment (EcIA) report BR0813/EcIA/A August 2023 by Burton Reid Associates.

110 B Habitat creation type EF-2: bat boxes

1. **Description:** Bat boxes attached to identified trees.
2. **Habitat type:** Bat roosts.
3. **Location:** As on drawings CD-LP-0-01 to CD-LP-0-05.
4. **Surveys required**
 - 4.1. **Prior to work commencing:** To identify suitable tree sites.
5. **Scope of work:** Erect selection of bat roost boxes at agreed tree sites.
6. **Details:** Place on mature or semi-mature trees at least 4 m above ground. Orientate south to west facing except where within shaded woodland.
7. **Source data provided for reference/ verification:** Ecological Impact Assessment (EcIA) report BR0813/EcIA/A August 2023 by Burton Reid Associates.

110 C Habitat creation type EF-3: bird boxes

1. **Description:** Bird boxes attached to identified trees.
2. **Habitat type:** Nesting sites.
3. **Location:** As on drawings CD-LP-0-01 to CD-LP-0-05.
4. **Surveys required**
 - 4.1. **Prior to work commencing:** To identify suitable tree sites.
5. **Scope of work:** Erect selection of bird nesting boxes at agreed tree sites.
6. **Details::** Place on mature or semi-mature trees at least 3 m above ground. Orientate north to east facing except where within shaded woodland.
7. **Source data provided for reference/ verification:** Ecological Impact Assessment (EcIA) report BR0813/EcIA/A August 2023 by Burton Reid Associates.

110 D Habitat creation type EF-4: log piles

1. **Description:** Piles of logs and brash.
2. **Habitat type:** Refugia for invertebrates and small vertebrates.

3. Location: As on drawings CD-LP-0-02 and CD-LP-0-09.
4. Surveys required
 - 4.1. Prior to work commencing: Not required.
5. Scope of work: Loose placement of materials.
6. Details:: Arrange mixed arisings of logs and brash from woodland management on or off-site in piles up 1.5-3 m length x 1-2 m width x 0.5 m height in exposed locations as indicated on drawings.
7. Source data provided for reference/ verification: Ecological Impact Assessment (EclA) report BR0813/EclA/A August 2023 by Burton Reid Associates.

110 E Habitat creation: Scrapes / wet flashes

1. Description: Areas regraded to create shallow wet basins.
2. Habitat type: Damp grassland.
3. Location: As on drawings CD-LP-2-10, CD-LP-2-12 and CD-LP-2-13.
4. Surveys required
 - 4.1. Prior to work commencing: Not required.
5. Scope of work: Excavating and filling, as section D20.
6. Details:: Excavate to contours shown on drawings, spreading arisings in areas indicated with final levels no greater than 150 mm above existing.
7. Source data provided for reference/ verification: Ecological Impact Assessment (EclA) report BR0813/EclA/A August 2023 by Burton Reid Associates.

Performance - Not Used

Products - Not Used

Execution - Not Used

Record keeping/ monitoring/ surveys - Not Used

Documentation

960 Environmental management plans

1. Description: For all areas and ecological features.
2. Site details: As site plan drawings CD-LP-0-01 to CD-LP-0-13.
 - 2.1. Existing conservation status/ designation: None
3. Source data provided for reference/ verification: Landscape & Ecology Management Plan, ref. 23036-LEMP.
4. Management outcomes
 - 4.1. Recommendations: Refer to LEMP.

Ω End of Section

Q23

Gravel/ hoggin/ woodchip/ resin bound roads/ pavings/ overlays

Types of surfacing

115 A Paving Type B

1. Description: Self-binding Gravel to pedestrian areas.
2. Subgrade improvement layer: Refer to Engineer's Specification.
3. Geotextile: Sheet. Install below sub-base to Engineer's Specification.
 - 3.1. Manufacturer: Contractor's choice.
 - 3.1.1. Product reference: Contractor's choice.
4. Granular sub-base: Type 1 unbound mixture to Engineer's Specification.
 - 4.1. Compacted thickness: 150 mm.
5. Blinding to sub-base: Not required.
6. Surface course: Romsey Red Path Gravel, 28 mm - dust.
 - 6.1. Type: Path gravel.
 - 6.2. Source: Contractor's choice.
 - 6.3. Colour: Romsey Red
 - 6.4. Size: Graded 28 mm to dust.
 - 6.5. Compacted thickness: 85 mm.
7. Completion: Compact to produce a firm, regular surface, stable in use.

Laying

310 Edge Type B

1. Description:: Timber edging to section of Self-binding Gravel footpath and Plastic Interlocking Units with grass infill at focal point seating areas. Refer to site plans for locations.
2. Softwood board
 - 2.1. Size: 150 x 38 mm.
 - 2.2. Fixing: Galvanized nails into softwood pegs.
3. Softwood pegs
 - 3.1. Size: 50 x 50 x 450 mm long.
 - 3.2. Fixing: Drive into ground.
 - 3.3. Centres: 1200 mm. Maximum 500 mm on radii of less than 6 m.
4. Preservative treatment: Copper Azole (CuAz).

320 Samples

1. Submit: Representative samples of all aggregates.

321 Control samples

1. Sample areas: Complete as part of the finished work.
 - 1.1. Types of paving: Self-binding Gravel path surfacing (Paving Type B).
 - 1.2. Location: To be agreed on site
 - 1.3. Size (minimum): 2 m x 3 m

- 1.4. Included features: Timber edging.
2. Approval of appearance and surface: Obtain before proceeding.

340 Laying generally

1. Channels, gullies, etc: Keep clear.
2. Finished surfaces
 - 2.1. Lines and levels: To prevent ponding.
 - 2.2. Overall texture: Even.
 - 2.3. State at completion: Clean.

350 Cold weather working

1. Frozen materials: Do not use.
2. Freezing conditions: Do not lay pavings.
3. Cold bituminous surface dressings: Do not apply when ambient temperature is below 10°C.
4. Other dressings or overlays: As manufacturers' recommendations.

360 A Drainage falls

1. Unsealed surfaces (minimum): 1:40
2. Unsealed surfaces (maximum): 1:21

380 A Laying granular surfaces in pedestrian areas

1. Permissible deviation from required levels, falls and cambers (maximum): ± 12 mm.
2. General: Spread and level in 50 mm maximum layers. As soon as possible, compact each layer.
3. Dry weather: Lightly water layers during compaction.

390 Protection from traffic and plant

1. Paved areas: Restrict access to prevent damage.

Completion - Not Used

Ω End of Section

Q25

Slab/ brick/ sett/ cobble pavings

General

140 A Edge Type A

1. Description: Single course of natural stone cubes.
2. Granular sub-base: Type 1 unbound mixture to Engineer's Specification.
 - 2.1. Compacted thickness: 150 mm.
3. Base: Mix ST4 Concrete to Engineer's Specification.
 - 3.1. Thickness: 100 mm.
4. Laying course: Mortar bedding to Engineer's Specification.
 - 4.1. Accessories: None.
5. Paving units: Natural stone cubes.
6. Jointing: Slurry mortar to Engineer's Specification.
 - 6.1. Bond: Single course laid to a circle at entrance node and focal point.

160 A Paving Type A

1. Description: Knapped Field Flint feature paving to entrance node and focal point.
2. Granular sub-base: Type 1 unbound mixture to Engineer's Specification.
 - 2.1. Compacted thickness: 100 mm.
3. Paving units: Knapped Field Flint.
4. Laying course and jointing: Mortar bedding to Engineer's Specification.
5. Overall nominal thickness of cobbles and bedding: 250 mm or Submit proposals.

180 A Paving Type C

1. Description: Plastic Interlocking Units with grass infill to focal point seating areas.
2. Geomembrane: Geotextile membrane
 - 2.1. Manufacturer: Terram
T: +44 (0)1621 874200
E: info@terram.com
W: www.terram.com
 - 2.1.1. Product reference: Terram T1000 Geotextile
3. Granular sub-base: Type 1 unbound mixture to Engineer's Specification.
 - 3.1. Compacted thickness: 100 mm.
4. Laying course: 60:40 sand : topsoil rootzone bedding layer, 40mm thick.
5. Paving units: Bodpave 40 in Black.
 - 5.1. Bond: In accordance with manufacturer's recommendations.
 - 5.2. Filling: 60:40 sand : topsoil rootzone infill. Refer to Section Q28 Clause 330 A. Grass seed, as Section Q30 Clause 311 A.
 - 5.3. Accessories: Terram TX160 Geogrid. Install below sub-base layer in accordance with manufacturer's recommendations.
Timber edging, refer to Section Q23 Clause 310.

System performance - Not Used

Products

330 A Edge Type A

1. Description: Natural stone cubes.
2. Standard: To [BS EN 1342](#).
3. Supplier: Contractor's choice
 - 3.1. Product reference: Submit proposals.
 - 3.2. Quarry: Submit proposals.
4. Petrographical description/ stone type: UK or European Granite. Buff colour.
5. Finish: Hewn (Cropped).
6. Sizes: 100 x 100 x 100 mm.
 - 6.1. Plan dimension and thickness deviation: Class 2.
7. Verification: ISO 9001 certified.
 - 7.1. Submittals: Submit current certification.
 - 7.2. Timing: Before placement of orders and to comply with programme.

340 A Paving Type A

1. Description: Knapped Field Flint
2. Cobbles: Selected Knapped Field Flint stones.
3. Size: 75–155 mm, mixed sizes as supplied.
4. Source: Submit proposals.

350 A Paving Type C

1. Description: Grass Filled Plastic Interlocking Paving Units to focal point seating areas.
2. Paving units
 - 2.1. Manufacturer: Terram
T: +44 (0)1621 874200
E: info@terram.com
W: www.terram.com
 - 2.1.1. Product reference: Bodpave 40 in Black
3. Size: 500 x 500 x 40 mm

365 Geotextile sheet

1. Description: Below sub-base to Engineer's Specification.
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Recycled content: Contractor's choice.

435 A Primer for underside of natural stone cubes

1. Manufacturer: Ultrascap.
 - 1.1. Product reference: Ultrascap Pro-Prime Slurry Primer to BS 7533 or equal and approved.

440 Ready-mixed bedding mortar

1. Description: To natural stone cubes and Knapped Field Flint surfacing.
2. Type: Bedding mortar.

3. Standard/ Performance requirements: In accordance with [BS 7533-4](#).
4. Manufacturer: UltraScape.
 - 4.1. Product reference: UltraScape Eco-Bed fine bedding mortar or equal and approved.
5. Consistency: Workable.

440 A Ready-mixed jointing mortar

1. Description: To natural stone cubes.
2. Type: Jointing mortar.
3. Standard/ Performance requirements: In accordance with [BS 7533-4](#).
4. Manufacturer: UltraScape.
 - 4.1. Product reference: UltraScape Flowpoint Eco rapid setting mortar or equal and approved.
5. Consistency: Slurry.

Execution

610 Material samples

1. Samples representative of colour and appearance of designated materials: Submit before placing orders.
 - 1.1. Designated materials: Natural stone cubes; reference sample to [BS EN 1342](#). Knapped Field Flint.

615 Control samples

1. Sample areas: Complete as part of the finished work.
 - 1.1. Types of paving: Knapped Field Flint (Paving Type A).
 - 1.2. Location: To be agreed on site
 - 1.3. Size (minimum): 1 m x 1 m
2. Approval of appearance and surface: Obtain before proceeding.

620 Adverse weather

1. General
 - 1.1. Temperature: Do not lay or joint paving if the temperature is below 3°C on a falling thermometer or below 1°C on a rising thermometer.
 - 1.2. Frozen materials: Do not use. Do not lay bedding on frozen or frost covered bases.
2. Paving with mortar joints and/ or bedding
 - 2.1. Protect from frost damage, rapid drying out and saturation until mortar has hardened.
3. Paving laid and jointed in sand/ fine aggregate
 - 3.1. Stockpiled laying course sand/ fine aggregate: Protect from saturation.
 - 3.2. Exposed areas of unbound laying course and uncompacted areas of unbound paving: Protect from heavy rainfall.
 - 3.3. Saturated unbound laying course: Remove and replace, or allow to dry before proceeding.
 - 3.4. Laying dry sand/ fine aggregate jointed paving in damp conditions: Brush in as much jointing sand as possible. Minimize site traffic over paving. As soon as paving is dry, top up joints and complete compaction.

625 Laying pavings – general

1. Appearance: Smooth and even with regular joints and accurate to line, level and profile.
2. Falls: To prevent ponding.

3. **Bedding of paving units:** Firm so that rocking or subsidence does not occur or develop.
 - 3.1. **Bedding/ Laying course:** Consistently and accurately graded, spread and compacted to produce uniform thickness and support for paving units.
4. **Slopes:** Lay paving units upwards from the bottom of slopes.
5. **Paving units:** Free of mortar and sand stains.
6. **Cutting:** Cut units cleanly and accurately, without spalling, to give neat junctions with edgings and adjoining finishes.

630 Levels of paving

1. **Permissible deviation from specified levels**
 - 1.1. **Generally:** +/-6 mm.
2. **Height of finished paving above features**
 - 2.1. **At gullies:** +6 to +10 mm.
 - 2.2. **At drainage channels and kerbs:** +3 to +6 mm.

635 Regularity of paved surfaces

1. **Maximum variation in gap under a 3 m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface)**
 - 1.1. **Precast concrete paving blocks and clay pavers for flexible pavements:** 10 mm.
 - 1.2. **Precast concrete flags or natural stone slabs:** 3 mm.
2. **Difference in level between adjacent paving units (maximum):** 2 mm.
3. **Sudden irregularities:** Not permitted.

640 Colour banding

1. **General:** Unless premixed by manufacturer, select from at least 3 separate packs in rotation to avoid colour banding.

645 Protection

1. **Cleanliness:** Keep paving clean and free from mortar droppings, oil and other materials likely to cause staining.
2. **Materials storage:** Do not overload pavings with stacks of materials.
3. **Handling:** Do not damage paving unit corners, arrises, or previously laid paving.
4. **Mortar-bedded pavings:** Keep free from traffic after laying:
 - 4.1. **Pedestrian traffic (minimum):** Seven days
 - 4.2. **Vehicular traffic (minimum):** 14 days
5. **Access:** Restrict access to paved areas to prevent damage from site traffic and plant.

655 Condition of sub-bases/ bases before spreading laying course

1. **Trenches and excavation of soft or loose spots in subgrade:** Fill and thoroughly compact.
2. **Granular surfaces:** Lay and compact so as to be sound, clean, smooth and close-textured enough to prevent migration of bedding/ laying course materials into the sub-base during compaction and use, free from movement under compaction plant and free from compaction ridges, cracks and loose material.
3. **Prepared existing and new bound bases (roadbases):** Sound, clean, free from rutting or major cracking. Remove sharp stones, projections and debris.
4. **Sub-base/ Roadbase level tolerances:** To [BS 7533-101](#), annex A.
5. **Levels and falls:** Accurate and within the specified tolerances.
6. **Drainage outlets:** Within 0-10 mm of the required finished level.

7. Features in unbound paving (including mortar-bedded restraints and drainage ironwork): Complete to required levels; adequately bed and haunch in mortar.
8. Sub-bases containing cement/ hydraulic binder: Cure for minimum times specified in [BS 7533-4](#).

730 A Laying natural stone cubes (Edge Type A)

1. Standard generally: In accordance with [BS 7533-101](#).
2. Laying type: Rigid.
 - 2.1. Laying and jointing method: Moist bed fine concrete with full depth slurry joint.
3. Laying course
 - 3.1. Target thickness after compaction: 30 mm.
4. Joint width (nominal): 10 mm.

750 A Laying Knapped Field Flint paving (Paving Type A)

1. Bedding, laying, jointing and completion: Lay with Knapped face up, to form surfacing. All in accordance with [BS 7533-101](#).
2. Jointing and completion:: 10-15 mm recessed, filled joints. All exposed surfaces to be cleaned thoroughly at completion of jointing.

765 Laying plastics grass reinforcing pavers

1. Laying: Tamp down into lightly compacted laying course Consolidate with vibrating plate compactor in accordance with the manufacturer's written instructions.
 - 1.1. Nominal thickness of laying course after compaction: 50 mm
2. Filling: Allow to settle and refill to 5-7 mm below surface.

Completion

920 Completion of grassed pavings

1. Protection: Protect from traffic for 6-8 weeks or until grass can tolerate traffic.

Ω End of Section

Q28

Topsoil and soil ameliorants

System outline

115 Topsoil system for turfing and seeding

1. Description: For grass seeding areas.
2. Composition
 - 2.1. Topsoil: Site-sourced topsoil.
 - 2.2. Ameliorants: None.
 - 2.3. Accessories: None.

135 Planting bed topsoil system

1. Description: For hedge planting areas.
2. Composition
 - 2.1. Topsoil: Site-sourced topsoil.
 - 2.2. Ameliorants: Sanitized and stabilized composted materials certified to PAS 100.
 - 2.3. Accessories: None.

145 A Planting pit backfilling topsoil system for planting areas

1. Description: For hedge planting areas.
2. Composition
 - 2.1. Topsoil: Imported topsoil to BS 3882.
 - 2.2. Ameliorants: Sanitized and stabilized composted materials certified to PAS 100.
 - 2.3. Accessories: None.

145 B Planting pit backfilling topsoil system for tree pits

1. Description: For tree pits.
2. Composition
 - 2.1. Topsoil: Imported topsoil to BS 3882.
 - 2.2. Ameliorants: Sanitized and stabilized composted materials certified to PAS 100.
 - 2.3. Accessories: Mycorrhizal inoculant.
Gel irrigation system.

155 Mulching and top dressing system

1. Description: For hedges, tree pits and woodland planting areas.
2. Composition
 - 2.1. Material: Organic bark mulch 30-75mm.

Products

300 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:** If any evidence or symptoms of soil contamination are discovered on the site or in topsoil or planting media to be imported.

305 Permitted materials

1. **Materials:** Composted bark.
Composted green waste.
Spent mushroom compost.
2. **Give notice:** before ordering or using.
3. **Declaration of compliance in accordance with BS EN 13650:** Required.

310 Materials not permitted

1. **Materials:** Peat.
Products containing peat.

315 Imported topsoil to BS 3882

1. **Description:** For hedge planting areas and tree pits.
2. **Quantity:** Provide as necessary to make up any deficiency of topsoil existing on site and to complete the work.
3. **Standard:** To BS 3882.
4. **Classification:** Multipurpose.
 - 4.1. **Soil textural class to BS 3882, Figure 1:** Sandy clay loam.
5. **Source:** Submit proposals.
 - 5.1. **Product reference:** Submit proposals.

330 A Imported rootzone growing medium

1. **Description:** For Paving Type C Plastic Interlocking Units with grass infill to focal point seating areas. Refer to Q25 Clause 180 A.
2. **Type:** 60:40 sand : topsoil rootzone blend
 - 2.1. **Soil textural class:** 60:40 sand : topsoil
3. **Source:** Contractor's choice
4. **Manufacturer:** Contractor's choice
 - 4.1. **Product reference:** Contractor's choice

360 Sanitized and stabilized composted materials certified to PAS 100

1. **Description:** For hedge planting areas and tree pits.
2. **Standard:** In accordance with PAS 100.
3. **Source:** Submit proposals.
 - 3.1. **Product reference:** Submit proposals.
4. **Horticultural parameters**
 - 4.1. **pH (1:5 water extract):** 6.5-8.7
 - 4.2. **Electrical conductivity (maximum, 1:5 water extract):** 200 mS/m

- 4.3. Moisture content (m/m of fresh weight): 35-55%.
- 4.4. Organic matter content (minimum): 25%
- 4.5. Grading (air dried samples): 99% passing 25 mm and 90% passing 10 mm screen mesh apertures.
- 4.6. Carbon:Nitrogen ratio (maximum): 20:1.
- 5. Texture: Friable.
- 6. Objectionable odour: Not permitted.
- 7. Compost Certification Scheme certification: Required.
- 8. Declaration of analysis: Submit.
- 9. Additional analyses: Not required.
- 10. Samples: Supply 5 kg sample before ordering.

380 Mycorrhizal inoculant

- 1. Description: For all tree pits.
- 2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals.

385 Water retention gels

- 1. Description: For all tree pits.
- 2. Type: Agri-polymer gel.
- 3. Manufacturer: Contractor's choice
 - 3.1. Product reference: Contractor's choice.
- 4. Accessories: None.

405 Inorganic fertilizers

- 1. Description: For hedge planting areas and tree pits.
- 2. Manufacturer/ source: Submit proposals
 - 2.1. Product reference: Submit proposals.
- 3. Standard: In accordance with The EC Fertilisers (England and Wales) Regulations 2006.
- 4. Purpose: Establishment fertilizer.
- 5. Type: NPK (macronutrient).
- 6. Availability to plants: Slow-release.

Execution

610 Topsoil analysis

- 1. Soil to be analysed: Imported topsoil.
- 2. Soil analyst: Contractor's choice.
- 3. Samples: Collect in accordance with BS 3882.
- 4. Submit
 - 4.1. Declaration of analysis: In accordance with BS 3882, clause 6 and Table 1.
 - 4.2. Additional analysis: Not required.
 - 4.3. Report detailing soil analyst's recommendations.

620 Importing topsoil

- 1. Give notice: Before stripping topsoil for transfer to site.

- 1.1. Notice period: 7 days.

625 Sample loads

1. Description: For imported topsoil.
2. Deliver to site a sample load: of 5 kg.
3. Give notice: Allow inspection before making further deliveries to site. Retain for comparison with subsequent loads.
 - 3.1. Notice period: 7 days.

630 Documentation for imported topsoil

1. Description: For hedge planting areas and tree pits.
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, clause 6 and Table 1.
4. Number of copies: One.

635 Documentation for compost and composted materials

1. Description: For hedge planting areas and tree pits.
2. Timing: Submit at handover.
3. Contents
 - 3.1. Full description of all compost components.
 - 3.2. Record of source for all compost components.
 - 3.3. Analyst's report for each test carried out.
 - 3.4. Declaration of compliance: in accordance with PAS 100 and BSI PD CR 13456.
 - 3.5. Quality Compost Protocol certification: Required.
4. Number of copies: One.

650 Notice

1. Give notice 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. Do not damage adjacent planting.

660 Grading subsoil for areas with altered profile

1. Description: Areas adjacent to paths, seating areas, general regrading.
2. Standard: In accordance with BS 8601.
3. General: Grade to smooth flowing contours to achieve specified finished levels of topsoil.

4. Areas of thicker topsoil: Excavate locally.
5. Avoid compaction.
6. Excess subsoil: Remove.

665 Subsoil surface preparation for regraded grass seeding type 1 areas

1. Description: Areas adjacent to paths and seating areas only.
2. Standard: In accordance with BS 3882.
3. General: Excavate and/ or place fill to required profiles and levels, as section D20.
4. Loosening
 - 4.1. When ground conditions are sufficiently dry to allow breaking up of soils, loosen thoroughly to specified depth
 - 4.1.1. Light and noncohesive subsoils: Not applicable.
 - 4.1.2. Stiff clay and cohesive subsoils: 300 mm.
 - 4.1.3. Rock and chalk subgrades: Lightly scarify to promote free drainage.
 - 4.2. Wet conditions: Do not loosen subsoils.
5. Stones: Immediately before spreading topsoil, remove stones larger than 75 mm.
6. Remove from site: Arisings, contaminants and debris.

670 Inspecting formations

1. Give notice: Before spreading topsoil for grass seeding type 1 areas.
2. Notice period: 7 days.

675 Preparation of undisturbed topsoil

1. Standard: In accordance with BS 4428.
 - 1.1. Grading and cultivation: Category C.
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.

680 Surplus topsoil to be retained

1. Generally: Spread and level on site:
 - 1.1. Locations: Areas where topsoil is required for new planting.
Areas identified on drawings CD-LP-2-01, CD-LP-2-10, CD-LP-2-12 and CD-LP-2-13.
 - 1.2. Protected areas: Do not raise soil level within root spread of trees that are to be retained.

685 Surplus materials to be removed

1. Topsoil removal from site: Topsoil remaining after completion of all landscaping work.
2. Subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, rubbish, prunings and other arisings: Remove.

690 Topsoil storage heaps

1. Location: Submit proposals.
2. Height (maximum): 1.0 m
3. Width (maximum): 4.0 m

- 3.1. **Formation:** Loose tip and shape from the side only, without running machinery on the heap at any time.

4. Protection

- 4.1. Do not place any other material on top of storage heaps.
- 4.2. Do not allow construction plant to pass over storage heaps.
- 4.3. Prevent compaction and contamination, by fencing and covering as appropriate.

700 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.

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.

710 Spreading topsoil on:

1. **Description:** Hedge planting areas, tree pits and areas for spreading excess topsoil.
2. **Standard:** In accordance with BS 3882.
3. **Temporary roads/ surfacing:** Remove before spreading topsoil.
4. **Layers**
 - 4.1. **Depth (maximum):** 150 mm.
 - 4.2. Gently firm each layer before spreading the next.
5. **Depth after firming and settlement:** Amenity grassland areas (grass seeding type 1) - 250mm
Meadow grassland areas (grass seeding type 2) - 150mm max.
Hedge planting areas - 450mm
Tree pits - 750mm
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 grass seeding and hedge 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: 250 mm
5. Particle size (maximum): 5 mm
6. Timing: After grading and fertilizing, and within a few days before seeding.
7. Weather and ground conditions: Suitably dry.
8. Surface: Leave regular and even.
9. Levels: 25 mm above adjoining surfaces.
10. Undesirable material brought to the surface
 - 10.1. Remove visible weeds.
 - 10.2. Remove roots and large stones with any dimension exceeding 30 mm.

720 Finished levels of topsoil after settlement

1. In relation to adjoining paving, kerbs or hard surfaces: Flush.
2. In relation to adjacent grass areas: 25 mm above.
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.
6. Thickness of turf or mulch: Included.

810 Applying compost

1. Description: For hedge planting areas and tree pits.
2. Application rate for trees and shrubs: 50 mm thick.
 - 2.1. Timing: Apply prior to cultivation.
3. Other requirements: Submit 5kg sample before ordering.

820 Applying general fertilizer

1. Description: For hedge planting areas and tree pits.
2. Application: Spread evenly, carefully incorporating below mulch materials.
 - 2.1. Timing: Immediately before cultivation.
 - 2.2. Application rate: 50 g/m².
 - 2.3. Other requirements: None.

835 Applying buried gel irrigation system

1. Description: For tree pits.
2. Depth: To maintain contact with root system.

840 Applying mycorrhizal inoculant

1. Description: For tree pits.
2. Depth: To maintain contact with root system.

845 A Applying loose mulch

1. Description: For hedge planting areas and tree pits.
2. Timing: Immediately after planting.
3. Preparation: Ensure that soil is thoroughly moistened, applying water where necessary.
4. Coverage of mulch (minimum)
 - 4.1. Hedges (depth): 50 mm depth.

4.2. Trees: 75 mm depth.

5. Finished level of mulch: 30 mm below adjacent grassed or paved areas.

Completion

905 Applying maintenance fertilizer to soil

1. Description: To all hedges planting areas and tree pits.
2. Duration: Carry out the following operations from completion of seeding/ turfing until the end of the rectification period.
3. Time of year: During February and March.
4. Application: Evenly spread, carefully incorporating below mulch materials.
5. Rate: To manufacturer's recommendations.

920 A Applying mulch

1. Timing: At end of the rectification period.
2. Watering: Ensure that soil is thoroughly moistened prior to mulching, applying water where necessary.
3. Hedges: Re-mulch.
 - 3.1. Depth (minimum): 50 mm
4. Trees: Remulch.
 - 4.1. Depth (minimum): 75 mm

Ω End of Section

Q30

Seeding/ turfing

General information/requirements

115 A 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.

145 A Watering

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

150 Water restrictions

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

160 Notice

1. Give notice before
 - 1.1. Setting out.
 - 1.2. Applying herbicide.
 - 1.3. Applying fertilizer.
 - 1.4. Preparing seed bed.
 - 1.5. Seeding or turfing.
 - 1.6. Visiting site during maintenance period.
2. Period of notice: 1 week.

170 Setting out

1. **Boundaries:** Mark clearly.
2. **Delineation:** In straight lines or smoothly flowing curves as shown on drawings.

Preparation

210 Herbicide

1. **Description:** Do not use.

212 Seed bed cleaning before sowing

1. **Description:** All areas for seeding.
2. **Operations:** Remove weeds by hand weeding and hoeing.

250 Soil requirements

1. Type
 - 1.1. Seeded areas: Soil for grass swards, as section Q28

Seeding

311 A Grass seeding type 1

1. Description: For seating/ picnic areas and verges to existing and proposed path network.
2. Supplier: John Chambers Wildflower Seed - www.johnchamberswildflowers.co.uk
 - 2.1. Mixture reference: 130JC4134-PRO - Heritage (Low) Flowering Lawn 80% grass seed wildflower mix.
3. Application rate: 5 g/m²

311 B Grass seeding type 2

1. Description: For areas of meadow grassland re-sown following disturbance or regrading.
2. Supplier: Emorsgate Seeds - <https://wildseed.co.uk/>
 - 2.1. Mixture reference: EM10 - Tussock Meadow Mixture
3. Application rate: 4 g/m²

311 C Grass seeding type 3

1. Description: For wet grassland areas.
2. Supplier: John Chambers Wildflower Seed - www.johnchamberswildflowers.co.uk
 - 2.1. Mixture reference: 130JC4122-PRO - Heritage Wet and Damp Soils 80% grass seed wildflower mix.
3. Application rate: 5 g/m²

319 Quality of seed

1. Description: All areas to be seeded.
2. Freshness: Produced for the current growing season.
3. Certification: Blue label certified varieties.
 - 3.1. Standard: EC purity and germination regulations.
 - 3.2. Official Seed Testing Station certificate of germination, purity and composition: Submit when requested.
4. Samples of mixtures: Submit when requested.

322 Quality of wildflower seed

1. Description: Grass seeding types 2 and 3.
2. Standard: In accordance with Flora Locale's 'Code of practice for collectors, growers and suppliers of native flora'.
3. Germination testing: Not required.
4. Freshness of seed: Produced for the current growing season.
5. Samples: Submit when requested.

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 and diagonally to main axis.

335 Grass sowing season

1. Grass seed generally: April to June or August to October.

336 Wildflower sowing season

1. Wildflower seed generally: March to May or August to October.

340 Pre-emergent herbicide

1. Description: Do not use.

Turfing - Not Used

Protecting/cutting

510 Protective fencing

1. Description: For seeded seating/ picnic areas only.
2. Fencing type: Chestnut pale fencing to BS 1722-4.
 - 2.1. Height: 1.2 m
3. Erection: On completion of seeding.
4. Removal: After grass is well established. Fencing will remain the property of the Contractor.

530 A First cut of grass seeding type 1 areas

1. Timing: When grass is reasonably dry.
Check height 4 weeks after sowing.
 - 1.1. Height of initial growth: 75 mm
2. Preparation
 - 2.1. Debris and litter: Remove.
 - 2.2. Stones and earth clods larger than 25 mm in any dimension: Remove
3. Height of first cut: 50 mm
4. Mower type: Contractor's choice.
5. Arisings: Remove from site.

540 A First cut of grass seeding type 2 areas

1. Description: Areas of meadow grassland re-sown after disturbance or regrading.
2. Height of initial growth: 75 mm
3. Timing: Early August.
4. Preparation:
5. Debris and litter: Remove.
 - 5.1. Stones and earth clods larger than 25 mm in any dimension: Remove
6. Height of first cut: 50 mm
7. Mower type: Contractor's choice.
8. Arisings: Remove from site.

540 B First cut of grass seeding type 3 areas

1. Description: Seeding in wet grassland/flashes area.
2. Height of initial growth: 75 mm

3. Timing: Early August.
4. Preparation:
5. Debris and litter: Remove.
 - 5.1. Stones and earth clods larger than 25 mm in any dimension: Remove
6. Height of first cut: 50 mm
7. Mower type: Contractor's choice.
8. Arisings: Remove from site.

550 Areas not to be cut

1. Do not cut: Existing meadow (see clause 650 and Section Q35).

590 Cleanliness

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

Maintenance

610 A Failures of seeding

1. Duration: Carry out the following operations from completion of seeding 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/ returfing.
4. Timing of making good: Submit proposals.

620 Maintaining

1. Description: Areas of grass seeding type 1.
2. Duration: Carry out the following operations from completion of seeding until: the end of the rectification period.
3. Maximum height of growth at any time: 75 mm
4. Preparation: Before each cut remove all litter and debris.
5. Cutting: As and when necessary to a height of 50 mm.
 - 5.1. Arisings: Remove.
6. Bulb planting areas: Do not cut until bulb foliage has died down.
7. Trimming: All edges.
 - 7.1. Arisings: Remove.
8. Weed control: Substantially free of broad leaved weeds.
 - 8.1. Method: Application of a suitable selective herbicide.
9. Stones brought to the surface: Remove regularly.
 - 9.1. Size: Exceeding 25 mm in any dimension.
10. Areas of settlement: Make good.
11. Watering: Contractor's choice.

650 Maintaining grassed areas with perennial wildflowers

1. Description: Areas of grass seeding type 2 and 3

2. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
3. Preparation: Before each cut remove all litter and debris.
4. Height and frequency of cut in first growing season
 - 4.1. Time of first cut: See clauses 540A and 540B.
 - 4.2. Height of first cut: See clauses 540A and 540B.
 - 4.3. Frequency of subsequent cutting (minimum): Mow to maintain a sward of 50 mm during first summer, autumn and winter if required. Cease mowing in April of the year after sowing.
 - 4.4. Height of growth permitted (maximum): 75 mm
5. Height and frequency of cut in second growing season
 - 5.1. Time of cut: March.
 - 5.2. Height of cut: 50 mm
 - 5.3. Subsequent cuts: Early August to 50 mm.
Leave to dry and shed seed for up to 1 week and remove from site. Mow re-growth until late autumn / early winter.
Remove all arisings.
6. Trimming: Not required.
 - 6.1. Arisings: Remove.
7. Watering: Contractor's choice.

Ω End of Section

Q31

External planting

General information/ requirements

112 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 vegetation to ground level by flail mowing and remove arisings; retain and protect trees indicated on drawings.
5. **Large roots:** Grub up and dispose of without undue disturbance of soil and adjacent areas.
6. **Additional requirements:** None.

118 Soil conditions

1. **Soil for cultivating and planting:** Moist, friable and (except in aquatic/ marginal planting) not waterlogged.
2. **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

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

125 Times of year for planting

1. **Deciduous trees and shrubs:** Late October to late March.
2. **Container grown plants:** At any time if ground and weather conditions are favourable.
 - 2.1. **Watering and weed control:** Provide as necessary.

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.

160 Notice

1. **Give notice 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.

170 A Soil requirements

1. Type
 - 1.1. Hedge planting areas: Planting bed soil system, as section Q28.
 - 1.2. Tree pits and other backfilling: Plant pit backfilling soil system, as section Q28.
 - 1.3. Mulch applied after planting: Mulching and top dressing system, as section Q28.

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: Grown in the United Kingdom for at least one growing season, unless otherwise approved.
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).

235 Container grown plants/ Trees

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

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: Date supplied and consignment details or reference; Potting dates; Propagation method and dates.

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.

265 Plant handling, storage transport and planting

1. Standard: To CPSE '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: Black polyethylene bags.
5. Packaging of bulk quantities: Pallets or bins sealed with polyethylene and shrink wrapped.
6. 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.

Plant containers - Not Used

Preparation of planting beds/ planting materials

300 Herbicide

1. Description: Do not use.

305 Weed control

1. Description: For invasive weeds including bracken, rapeseed and non-native species.
2. Locations: Planting areas and hedges.
3. General: Prevent weeds from seeding and perennial weeds from becoming established, by hoeing.

385 A Plant and natural fibre mulch matting

1. **Description:** Mulch matting for woodland and hedge planting areas and tree pits.
2. **Manufacturer:** [Green-Tech](#)
 - 2.1. **Contact details**
 - 2.1.1. **Address:** Rabbit Hill Park
Great North Road
Arkendale
Knaresborough
North Yorkshire
HG5 0FF
 - 2.1.2. **Telephone:** [+44 \(0\)1423 332114](tel:+44(0)1423332114)
 - 2.1.3. **Web:** <https://www.green-tech.co.uk/>
 - 2.1.4. **Email:** info@gtspecifier.co.uk
 - 2.2. **Product reference:** Ecomatt Bio Mulch ref. 150WW2625-PRO
3. **Type:** Jute on hessian backing.
4. **Recycled content:** None permitted.
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:** Mulching planting beds.
10. **Fixing:** Degradable Bio Weed Fabric Fixing Pegs ref. 150WW2924. Apply to manufacturer's recommendations.

Planting shrubs/ herbaceous plants/ bulbs

400 A Random plant layout to hedge planting areas

1. **Density:** As plant schedule.
2. **Arrangement:** Thoroughly intermix species with at most 3 individuals per species in each group.

471 A Naturalised hedges

1. **Description:** Hedges to site boundary and gate locations as planting plans.
2. **Planting:** In trenches large enough to take full spread of roots. Set out plants evenly.

472 Fencing support for new hedges

1. **Type:** Timber post and general pattern strained wire, as section Q40.
2. **Timing:** Before planting hedge.
3. **Support:** Lightly secure hedge plants to fence wires at appropriate intervals.

480 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:** Mulching and top dressing system, as section Q28.
 - 3.1. **Depth:** 50 mm

486 Shrub protection

1. **Manufacturer:** Green-Tech Ltd.
 - 1.1. **Contact details**
 - 1.1.1. **Address:** Rabbit Hill Park
Great North Road
Arkendale
Knaresborough
North Yorkshire
HG5 0FF
 - 1.1.2. **Telephone:** +44 (0)1423 332114
 - 1.1.3. **Web:** <https://www.green-tech.co.uk/>
 - 1.1.4. **Email:** info@gtspecifier.co.uk
 - 1.2. **Product reference:** Rainbow Tree Spiral Guard
ref: 160PS1051-Pro
2. **Type:** Round.
3. **Material:** 100% recycled PVC.
4. **Size:** 0.6 m high x 50 mm diameter.
5. **Colour:** Brown.
6. **Support:** Single timber stake.
7. **General:** Ensure that protection methods do not impede natural movement of plants or restrict growth.

Planting trees

500 Tree planting

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

505 Tree pits

1. **Sizes:** 1200mm diameter x 750mm deep.
2. **Sloping ground:** Slightly crowned base 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 200 mm.
 - 4.1. **Treatment:** Soil ameliorant worked into pit bottoms.
5. **Pit sides:** Scarify.
6. **Backfilling material:** Topsoil, as section Q28.

512 Tree pit irrigation and ventilation accessories

1. **Locations:** As drawings CD-PP-0-01 and CD-PP-0-10.
2. **Manufacturer:** Contractor's choice
3. **Type:** Perforated plastics irrigation pipe with inlet.
4. **Pipe diameter:** 35 mm
5. **Ring diameter:** 560 mm
6. **Inlet:** Submit proposals.
7. **Installation**
 - 7.1. **Pipe:** Lay in loop above root ball with slight fall away from inlet pipe. Trim length to ensure a close fit in the tree pit. Connect both ends of pipe securely into plastics tee junction on inlet.

7.2. Top cap of inlet: Protruding slightly above finished surround level.

7.3. Backfill material: Carefully compact in layers.

515 Tree pit drainage

1. Locations: To all tree pits.
2. Depth of excavation: Increase from specified size to allow for aggregate layer.
3. Aggregate layer: Clean gravel or broken stone, with no fines, graded 40 to 20 mm.
 - 3.1. Depth: 200 mm
4. Completed pits: Test for free drainage before planting.

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): 50 mm diameter.
3. Stake length (minimum): 1500 mm

550 Double staking for

1. Description: All trees.
2. Staking
 - 2.1. Position: Either side of tree position and perpendicular to wind direction.
 - 2.2. Driving: Vertically at least 300 mm into bottom of pit before planting.
 - 2.3. Backfilling: Consolidate material around stake.
 - 2.4. Firming: Sufficiently firm to prevent movement of the rootball/ rootstock.
3. Height of stakes: Cut off at approximately one third of the height of the clear stem of tree.
4. Horizontal bracing: Flexible webbing.
 - 4.1. Fixing: Nailed to stake within 25 mm of top of stakes.
5. Ties: Not required.
6. Tying: Secure flexible webbing around tree stem firmly without causing constriction or chafing.
7. Nails for fixing ties, belts and webbing: To BS 1202-1, galvanized, minimum 25 mm long and with 10 mm diameter heads.

566 A Tree protection

1. Manufacturer: Green-Tech Ltd.
 - 1.1. Contact details
 - 1.1.1. Address: Rabbit Hill Park
Great North Road
Arkendale
Knaresborough
North Yorkshire
HG5 0FF
 - 1.1.2. Telephone: +44 (0)1423 332114
 - 1.1.3. Web: <https://www.green-tech.co.uk/>
 - 1.1.4. Email: info@gtspecifier.co.uk
 - 1.2. Product reference: Rainbow Tree Spiral Guard
ref: 160PS1051-Pro
2. Type: Round.

3. **Material:** 100% recycled PVC.
4. **Size:** 0.6 m high x 50 mm diameter.
5. **Colour:** Brown.
6. **Support:** Single timber stake.
7. **General:** Ensure that protection methods do not impede natural movement of trees or restrict growth.

570 A Tree mulch mats

1. **Manufacturer:** [Green-Tech](#)
 - 1.1. **Contact details**
 - 1.1.1. **Address:** Rabbit Hill Park
Great North Road
Arkendale
Knaresborough
North Yorkshire
HG5 0FF
 - 1.1.2. **Telephone:** [+44 \(0\)1423 332114](tel:+44(0)1423332114)
 - 1.1.3. **Web:** <https://www.green-tech.co.uk/>
 - 1.1.4. **Email:** info@gtspecifier.co.uk
 - 1.2. **Product reference:** Ecomatt Bio Weed Mat - ref. 150WW2624
 - 1.3. **Material:** Biodegradable matting.
 - 1.4. **Size:** 1000 x 1000 mm.
2. **Recycled content:** None permitted.
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:** Degradable Bio Weed Fabric Fixing Pegs ref. 150WW2924. Apply to manufacturer's recommendations.

576 Tree pit surfacing – loose fill

1. **Surfacing material:** Mulch, as section Q28.
2. **Area:** 1000 x 1000 mm square.
3. **Depth:** 75 mm
4. **Watering:** Water soil thoroughly before laying.
5. **Installation:** Ensure the base of the tree stem is kept free from loose filled material.

Woodland/ matrix/ buffer zone 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.

635 A 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 plant schedule.
2. **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.

690 Woodland planting protection

1. **Manufacturer:** The Farm Forestry Co. Ltd.
T: 01588 650496
E: sales@farmforestry.co.uk
W: www.farmforestry.co.uk
 - 1.1. **Product reference:** Diamond Extra Wide Fine Mesh Deer Shelter
2. **Type:** Round
3. **Material:** Plastics mesh
4. **Size:** 1.5 m high x 250 mm diameter
5. **Colour:** Green
6. **Support:** Two timber stakes, 1.5 m high. Stakes to be placed inside shelter and stapled in accordance with the supplier's instructions.
7. **General:** Ensure that protection methods do not impede natural movement of transplants or restrict growth.

695 Woodland transplants mulch mats

1. **Manufacturer:** [Green-Tech](#)
 - 1.1. **Contact details**
 - 1.1.1. **Address:** Rabbit Hill Park
Great North Road
Arkendale
Knaresborough
North Yorkshire
HG5 0FF
 - 1.1.2. **Telephone:** [+44 \(0\)1423 332114](tel:+44(0)1423332114)
 - 1.1.3. **Web:** <https://www.green-tech.co.uk/>
 - 1.1.4. **Email:** info@gtspecifier.co.uk
 - 1.2. **Product reference:** Ecomatt Bio Weed Mat - ref. 150WW2624
 - 1.3. **Material:** Biodegradable matting.
 - 1.4. **Size:** 1000 x 1000 mm.
2. **Recycled content:** None permitted.
3. **Watering:** Water soil thoroughly before laying.
4. **Laying:** In close contact with the soil surface.
 - 4.1. **Fitting:** Neatly and closely around transplant stem, where necessary cutting a slit or flap.
 - 4.2. **Fixing:** Degradable Bio Weed Fabric Fixing Pegs ref. 150WW2924. Apply to manufacturer's recommendations.

Protecting/ maintaining/ making good defects

710 Maintenance

1. **Duration:** Carry out the operations in the following clauses from completion of planting until the end of the 12 months rectification period.
2. **Frequency of maintenance visits:** Submit proposals.

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.
3. **Timing of making good:** In accordance with an agreed defects rectification programme.

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.

750 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 hand weeding and maintaining full thickness of mulch.
2. **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.
3. **Precautions:** Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools.
4. **Firming up:** Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs.
5. **Trees:** Spray crown when in leaf during warm weather.
 - 5.1. **Timing:** After dusk.
6. **Tree accessories:** Check condition of stakes, ties, guys, guards and irrigation and ventilation systems.
 - 6.1. **Broken or missing items:** Replace.
 - 6.2. **Loose stakes:** Re-firm in the ground or replace as necessary to provide support to the tree.
 - 6.3. **Loose guys:** Re-firm anchor points and adjust as necessary to provide support to the tree.
 - 6.4. **Ties:** Adjust to accommodate growth and prevent constriction or abrasion.
 - 6.5. **Damage to bark:** Cut back neatly with sharp knife. Prevent further damage.
 - 6.6. **Frequency of checks:** Every month.
7. **Watering:** Contractor's choice.

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:** As appropriate to the species.
 - 1.3. **Trees:** Favour a single central leading shoot.
2. **Arisings:** Add to log piles and hibernacula - see Section Q05.

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. Provide details of any special procedures to be carried out.

790 A Final mulching

1. **Timing:** At end of the rectification period.
2. **Watering:** Ensure that soil is thoroughly moistened prior to remulching, applying water where necessary.
3. **Hedge planting areas:** Remulch.
4. **Depth (minimum):** 50 mm
5. **Trees:** Remulch.
6. **Depth (minimum):** 75 mm

Ω End of Section

Q35

Landscape maintenance

Generally

105 Maintenance objectives

1. Location: All planted and seeded areas.
 - 1.1. Duration: 12 months rectification period.
2. Aims: To facilitate establishment.
3. Restrictions: None.
4. Results: Adequate establishment, in accordance with the contract.

110 Notice

1. Give notice before
 - 1.1. Application of herbicide.
 - 1.2. Application of fertilizer.
 - 1.3. Watering.
 - 1.4. Each site maintenance visit.
2. Period of notice: Seven days.

130 Reinstatement

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

155 Watering

1. Supply: No site supply available; submit proposals.
2. Quantity: Wet full depth of topsoil.
3. Application: Do not damage or loosen plants.
4. Compacted soil: Loosen or scoop out, to direct water to rootzone.
5. Frequency: As necessary for the continued thriving of all planting.

160 Water restrictions

1. 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.

170 Disposal of arisings

1. General: Unless specified otherwise, dispose of arisings as follows:
 - 1.1. Biodegradable arisings: Remove to recycling facility.
 - 1.2. Grass cuttings: Remove to recycling facility.
 - 1.3. Tree roots and stumps: Remove from site.
 - 1.4. Shrub and tree prunings: Add to log piles and hibernacula - see Section Q05.
 - 1.5. Litter and nonbiodegradable arisings: Remove from site.

181 Mechanical equipment

1. General: Minimise.

2. **Prohibited equipment:** Chippers
Leaf blowers
Litter vacuums
3. **Timing:** Use of mechanical equipment allowed between the hours of 10:00 am and 4:00 pm only.

190 Litter

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

195 Protection of existing grass

1. **General:** Protect areas affected by maintenance operations using boards/tarpaulins. Do not place excavated or imported materials directly on grass.

197 Cleanliness

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

Grassed areas

211 A Maintenance of grass seeding type 1 areas

1. **Description:** Areas adjacent to seating/ picnic areas and verges to path network.
2. **Preparation:** Before each cut remove all litter and debris.
3. **Height and frequency of cutting**
 - 3.1. **Timing:** Spring / summer up to 12 times per year.
 - 3.2. **Height at each cut (maximum):** 75 mm
 - 3.3. **Height of cut:** 35 mm
 - 3.4. **Arisings:** Remove from site.

211 B Maintenance of wildflower grassland areas

1. **Description:** Grass seeding types 2 and 3 (above any permanent water line), and established meadow grassland.
2. **Preparation:** Before each cut remove all litter and debris.
3. **Height and frequency of cutting**
 - 3.1. **Timing of first annual cut:** March
 - 3.2. **Height of first annual cut:** 50 mm
 - 3.3. **Timing of second cut:** Early August
 - 3.4. **Height of second cut:** 50 mm
 - 3.5. **Following second cut:** Leave arisings to dry and shed seed for up to 1 week and remove from site. Mow re-growth until late autumn / early winter, removing all arisings.

220 Grass cutting generally

1. **Before mowing:** Remove litter, rubbish and debris.
2. **Finish:** Neat and even, without surface rutting, compaction or damage to grass.
3. **Edges:** Leave neat and well defined. Neatly trim around obstructions.
4. **Adjoining hard areas:** Sweep clear and remove arisings.
5. **Drought or wet conditions:** Obtain instructions.

225 Tree stems

1. **Precautions:** Do not allow nylon filament rotary cutters and other mechanical tools closer than 100 mm to the stem of any tree. Complete operations close to stems using hand tools.

250 Leaf removal

1. **Operations:** Leave in situ.
2. **Special requirements:** None.
3. **Disposal:** n/a

260 A Mowing amenity lawns and verges

1. **Grass height:** Maintain between 50 and 75 mm.
2. **Arisings:** Remove.

272 A Maintaining grassed areas with perennial wildflowers

1. **Preparation:** Before each cut remove litter and debris.
2. **Height and frequency of cut in first growing season**
 - 2.1. **Time of first cut:** July to September after seeding.
 - 2.2. **Height of first cut:** 30-50 mm.
 - 2.3. **Frequency of subsequent cutting (minimum):** Once in early spring.
3. **Height and frequency of cut in second growing season**
 - 3.1. **Time of cut:** Once in early spring then leave until late July / early August and cut as 'hay'.
 - 3.2. **Height of cut:** 50 mm.
 - 3.3. **Subsequent cutting:** Mow regrowth until late autumn/ early winter.
4. **Trimming:** n/a.
 - 4.1. **Arisings:** Leave on site for minimum of one week then remove.
5. **Watering:** Contractor's choice.

320 Levelling hollows and bumps in turf

1. **Standard:** To BS 7370-3, clauses 12.4 and 12.5.

325 Relieving surface compaction in turf

1. **Standard:** To BS 7370-3.
2. **Method:** Spiking.
3. **Top dressing:** Not required.
 - 3.1. **Depth:** 2-5 mm.

340 Spot weed killing in meadow grass areas

1. **Herbicide:** Contractor's choice.
2. **Operations:** Spot-treat Injurious weed species listed in the Weeds Act 1959 and Wildlife and Countryside Act 1981, and Japanese knotweed (*Fallopia* spp.).

381 Reinstatement of worn or damaged lawns

1. **Worn or damaged areas:** Make good by returfing or reseeding:
 - 1.1. **Returfing standard:** To BS 7370-3, clause 12.2.
 - 1.2. **Reseeding standard:** To BS 7370-3, clause 12.6.

2. **Turf or seed:** To match existing in appearance and quality.
3. **Protection and watering:** Provide as necessary to promote successful germination and/ or establishment.

Flower beds/ seasonal beddings - Not Used

Shrubs/ trees/ hedges

500 Establishment of new planting

1. **Duration:** Five full growing seasons from the date of planting.
2. **Weed control**
 - 2.1. **Method:** Keep planting beds clear of weeds by Maintaining full thickness of mulch.
 - 2.2. **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.
3. **Soil condition:** Fork over beds to keep soil loose, with gentle cambers and no hollows. Do not reduce depth or effect of mulch.
4. **Watering:** Contractor's choice.

510 Tree stakes and ties

1. **Inspection/ maintenance times:** As scheduled and immediately after strong winds.
2. **Stakes**
 - 2.1. Replace loose, broken or decayed stakes to original specification.
 - 2.2. If longer than half of clear tree stem height, cut to this height in spring. Retie to tree firmly but not tightly with a single tie.
3. **Ties:** Adjust, refix or replace loose or defective ties, allowing for growth and to prevent chafing.
 - 3.1. Where chafing has occurred, reposition or replace ties to prevent further chafing.
4. **Removal of stakes and ties:** As instructed during spring when no longer required to protect the tree.
 - 4.1. Fill stake holes with lightly compacted soil.

520 Refirming of trees and shrubs

1. **Timing:** After strong winds, frost heave and other disturbances.
2. **Refirming:** Tread around the base until firmly bedded.
3. **Collars in soil at base of tree stems, created by tree movement:** Break up by fork, avoiding damage to roots. Backfill with topsoil and refirm.

525 Tree guards

1. **Loose or defective guards:** Adjust, refix or replace to original specification and to prevent chafing.

530 Tree shelters

1. **Loose or defective shelters:** Adjust, refix or replace to original specification and to prevent chafing.
2. **Removal:** As instructed during spring when no longer required to protect the tree.

537 Nesting wild birds

1. **Survey:** Before starting hedge or tree work during the period of February to August (inclusive), carry out a survey by a qualified ecologist and submit report.
2. **Accidental disturbance:** Report immediately.

540 Pruning generally

1. **Pruning:** In accordance with good horticultural and arboricultural practice.
 - 1.1. **Removing branches:** Do not damage or tear the stem or bark.
 - 1.2. **Wounds:** Keep as small as possible and cut cleanly back to sound wood.
 - 1.3. **Cutting:** Make cuts above and sloping away from an outward-facing healthy bud, angled so that water will not collect on cut area.
 - 1.4. **Larger branches:** Prune neither flush nor leaving a stub, but using the branch bark ridge or branch collar as a pruning guide.
2. **Appearance:** Thin, trim and shape each specimen appropriately to species, location, season, and stage of growth, leaving a well-balanced natural appearance.
3. **Tools:** Use clean sharp secateurs, hand saws or other approved tools. Trim off ragged edges of bark or wood with a sharp knife.
4. **Disease or infection:** Give notice if detected.
5. **Growth retardants, fungicide or pruning sealant:** Do not use unless instructed.

545 Pruning of excessive overhang

1. **Timing:** As instructed.
2. **Operations:** Remove growth encroaching onto grassed areas, paths, roads, signs, sightlines and road lighting luminaires.
3. **Special requirements:** None.

550 Pruning of excessive height

1. **Timing:** As instructed.
2. **Operations:** Remove excessive height As instructed.

555 Pruning trees and shrubs

1. **Standard:** To BS 7370-4.
2. **Special requirements:** None.

570 Formative pruning of young trees

1. **Standard:** Type and timing of pruning operations to suit the plant species.
2. **Time of year:** Do not prune during the late winter/ early spring sap flow period.
3. **Young trees up to 4 m high**
 - 3.1. **Crown prune** by removing dead branches and reducing selected side branches by one third to preserve a well-balanced head and ensure the development of a single strong leader.
 - 3.2. **Remove duplicated branches** and potentially weak or tight forks. In each case, cut back to live wood.
4. **Whips or feathered trees:** Do not prune.
5. **Operatives:** Approved specialist contractor.

600 Trimming rapidly establishing hedges

1. **General:** Allow to reach planned height as rapidly as possible.
 - 1.1. **Form:** Trim back lateral branches moderately.

605 Trimming slowly establishing hedges

1. **Operations**

- 1.1. **Timing:** Cut back hard in June and September to encourage bushy growth down to ground level.
- 1.2. **Form:** Allow to reach planned dimensions only by gradual degrees, depending on growth rate and habit.

615 A Trimming field hedges

1. **Operations:** Trim to specified height and profile using suitable mechanical cutters.
2. **Timing:** Once annually September to February inclusive until a strong interlocking framework has developed. Thereafter, trim on a 2-3 year cycle one side per visit.
3. **Shaping:** Trim established hedges to 1m wide x 1.8m tall.

620 Removal of dead plant material

1. **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.
Use to refresh log piles / hibernacula in locations shown on drawings, removing excess remaining material off site.

630 Dead and diseased plants

1. **Removal:** As soon as possible.
2. **Replacement:** In the next scheduled round of replacement planting.

645 Weed control generally

1. **Weed tolerance:** Remove noxious, invasive and notifiable weeds only.
2. **Adjacent plants, trees and grass:** Do not damage.

650 Hand-weeding

1. **General:** Remove weeds entirely, including roots.
2. **Disturbance:** Remove the minimum quantity of soil, and disturb plants, bulbs and mulched surfaces as little as possible.
3. **Completion:** Rake area to a neat, clean condition.
4. **Mulch:** Reinstat to original depth.

670 A Weed control with summer herbicide

1. **Purpose:** Control of noxious and notifiable weeds only.
2. **Type:** Suitable foliar-acting herbicide.
3. **Timing:** Allow recommended period for herbicide to take effect before clearing dead weeds.

690 Maintenance of loose mulch

1. **Thickness (minimum):** 50 mm to hedge planting areas.
75 mm to tree pits.
 - 1.1. **Top up:** Annually
2. **Mulch spill on adjacent areas:** Remove weeds and rubbish and return to planted area.
3. **Weeding:** Remove weeds growing on or in mulch by Hand-weeding.

693 Maintenance of mulch matting/ sheet mulches

1. **General:** Inspect and reattach or refirm mulch mats and sheet mulches.
2. **Type:** Biodegradable matting.
3. **Removal:** Allow to degrade in-situ naturally.

Green walls - Not Used

Tree work

810 Tree work generally

1. **Identification:** Before starting work agree which trees, shrubs and hedges are to be removed or pruned.
2. **Protection:** Avoid damage to neighbouring trees, plants and property.
3. **Standard:** To BS 3998.
4. **Removing branches:** Cut vertical branches similarly, with no more slope on the cut surface than is necessary to shed rainwater.
5. **Appearance:** Leave trees with a well-balanced natural appearance.
6. **Chain saw work:** Operatives must hold a certificate of competence.
7. **Tree work:** To be carried out by an approved member of the Arboricultural Association.

815 Additional work

1. **Defective, diseased, unsafe or weak parts of trees additional to those scheduled for attention:** Give notice if detected.

820 Prevention of wound bleeding

1. **Standard:** To BS 3998.

825 Prevention of disease transmission

1. **Standard:** To BS 3998.

830 A Cleaning out and deadwooding

1. **Remove**
 - 1.1. Dead, dying or diseased wood, broken branches and stubs in locations where these may present a risk to the public.
 - 1.2. Fungal growths and fruiting bodies: seek advice and agreement prior to removal.
 - 1.3. Rubbish, windblown or accumulated in branch forks.
 - 1.4. Wires, clamps, boards and metal objects, if removable without causing further damage and not part of a support structure that is to be retained.
 - 1.5. Other unwanted objects, e.g. tree houses, swings.

835 Cutting and pruning generally

1. **Tools:** Appropriate, well maintained and sharp.
2. **Final pruning cuts**
 - 2.1. **Chainsaws:** Do not use on branches of less than 50 mm diameter.
 - 2.2. **Hand saws:** Form a smooth cut surface.
 - 2.3. **Anvil type secateurs:** Do not use.
3. **Removing branches:** Do not damage or tear the stem.
4. **Wounds:** Keep as small as possible, cut cleanly back to sound wood leaving a smooth surface, and angled so that water will not collect on the cut area.
5. **Cutting:** Cut at a fork or at the main stem to avoid stumps wherever possible.
6. **Large branches:** Remove only if unavoidable.
 - 6.1. Remove in small sections and lower to ground with ropes and slings.

7. **Dead branches and stubs:** When removing, do not cut into live wood.
8. **Unsafe branches:** Remove epicormic shoots and potentially weak forks that could fail in adverse weather conditions.
9. **Disease or fungus:** Give notice if detected. Do not apply fungicide or sealant unless instructed.

840 Crown reduction/ shaping

1. **General:** Cut back selectively to lateral or sublateral buds or branches to retain flowing branch lines without leaving stumps.
2. **Operations:** Reduce crown by 15%.

845 Crown lifting

1. **Clearances:** Remove branch systems to give clearance.
 - 1.1. **Height:** As recommended by BS 7370-4, clause 3.7.2.3.
2. **Removing branches:** Remove whole branches back to the stem, or cut lower portions of branches back to lateral or sublateral buds or branches. Do not leave stumps.

850 A Crown thinning

1. **Application:** Where instructed only.
2. **Removing branches:** Remove inward-growing, crossing, rubbing, dead and damaged branches.
3. **Thinning:** Selectively remove secondary and small live branch growth evenly throughout the crown.
 - 3.1. **Quantity:** 15 %
4. **Cutting:** Make no cuts of more than 50 mm diameter.
 - 4.1. **Branches:** Cut back to lateral or sublateral buds or branches without leaving stumps.
5. **Appearance:** Leave a uniform and well-balanced structure of branches and foliage.

855 Cutting tree roots

1. **Excavating:** Use hand tools only.
2. **Protected area:** Do not cut roots within an area which is the larger of:
 - 2.1. The branch spread of the tree.
 - 2.2. An area with a radius of half the tree's height, measured from the trunk.
3. **Outside protected area:** Give notice of roots exceeding 50 mm in diameter. Do not cut without approval.
4. **Cutting**
 - 4.1. **Cutting:** Make clean smooth cuts with a hand saw.
 - 4.2. **Wounds:** Minimize. Avoid ragged edges.
 - 4.3. **Finishing:** Pare cut surfaces smooth with a sharp knife.
5. **Backfilling**
 - 5.1. **Protection:** Cover cut roots with clean sharp sand.
 - 5.2. **Material:** Backfill with original topsoil.

860 A Removing trees, shrubs and hedges

1. **Standard:** To BS 3998 and Health & Safety Executive (HSE)/ Arboricultural and Forestry Advisory Group Safety Leaflets.
2. **Existing services:** Check for below and above ground services. Give notice if they may be affected.
3. **Shrubs and smaller trees:** Cut down and grub up roots.
4. **Tree stumps**

- 4.1. **Treatment:** Remove mechanically to a minimum depth of 300 mm below ground level.
- 4.2. **Removal by winching:** Give notice. Do not use other trees as supports or anchors.
5. **Protection:** Avoid damage to neighbouring trees, plants and property.
6. **Work near retained trees:** Where tree canopies overlap and in confined spaces generally, take down trees carefully in small sections to avoid damage to adjacent trees that are to be retained.
7. **Filling holes**
 - 7.1. **Material:** Use as-dug material and/ or imported soil as required.
 - 7.2. **Finishing:** Consolidate and grade to marry in with surrounding ground level.

865 Bark damage

1. **Wounds**
 - 1.1. Do not attempt to stop sap bleeding.
 - 1.2. **Bark:** Remove ragged edges using a sharp knife.
 - 1.3. **Wood:** Remove splintered wood from deep wounds.
 - 1.4. **Size:** Keep wounds as small as possible.
2. **Liquid or flux oozing from apparently healthy bark:** Give notice.

870 Cavities in trees

1. **Investigation:** Remove rubbish and rotten wood. Probe the cavity to find the extent of any decay, and give notice.
2. **Water-filled cavities:** Do not drain.
3. **Sound wood inside cavities:** Do not remove.
4. **Cavity openings:** Do not cover.

Water areas

895 A Clearance of existing watercourses

1. **Clearance:** Remove litter, debris, accumulated silt and excessive vegetation causing an obstruction.
2. **Frequency:** Every five year or as instructed.
3. **Time of year:** As instructed.
4. **Method:** By hand.
 - 4.1. **Access:** From one bank only.
 - 4.2. **Position:** Submit risk assessment.
5. **Phasing:** Not required.

Hard landscape areas/ fencing

910 A Hard surfaces and gravel areas

1. **Herbicide:** Apply a suitable foliar acting or residual herbicide. Allow recommended period for herbicide to take effect before clearing arisings.
2. **Hard surfaces:** Remove litter, leaves and other debris from pedestrian areas at gate locations, seating areas and focal point.
3. **Gravel areas:** Rake over. Remove weeds, litter, leaves and debris, level off and compact.

920 Fencing

1. **Fences:** Inspect and repair to maintain integrity of structures.

930 Graffiti removal

1. Method: Pressure wash.
2. Subsequent treatment: Not required.

Ω End of Section

Q40 Fencing

Fencing systems

141 Fence Type A: Spring steel and high tensile wire mesh fencing

1. Manufacturer: McVeigh Parker
 - 1.1. Website: <https://mcveighparker.com/>
 - 1.2. Telephone: 0333 0050115
 - 1.3. Product reference: Triple X 1000m Cattle/Railway Fence Kit, ref. KCPCF
2. Standard: To BS 1722-2.
3. Height: 1350 mm
4. Mesh: As supplied (rectangular).
5. Posts and struts: Steel.
6. Maximum centres of posts
 - 6.1. Straining posts: 100 m in straight runs and at all ends.
 - 6.2. Turning posts: At corners and lateral changes of direction.
 - 6.3. Contour posts: At acute variations in level.
 - 6.4. Intermediate posts: 4.5m centres
7. Method of setting posts
 - 7.1. Straining posts: Driven to depth 1000 mm.
 - 7.2. Intermediate posts: Driven to depth 850 mm.
8. Accessories: 1no. single strand of high tensile galvanized wire between tops of posts.
9. Conformity: Submit manufacturer's and installer's certificates, to BS 1722-2.

150 A General pattern strained wire fencing

1. Description: For support along centre line of new hedges.
2. Manufacturer: Contractor's choice
3. Standard: To BS 1722-2, type SW90.
4. Wire: High tensile steel wire, 2.5 mm diameter.
5. Posts and struts: Round wood.
 - 5.1. Treatment: To provide a 15-year service life.
 - 5.2. Finish: None.
6. Maximum centres of posts
 - 6.1. Straining posts: 150 m in straight runs and at all ends, corners, changes of direction and acute variations in level.
 - 6.2. Intermediate posts: 3.5 m.
7. Method of setting posts and struts
 - 7.1. Straining posts: 450 mm square or 300 mm diameter holes, 750 mm deep filled to two thirds depth with concrete.
 - 7.2. Struts: 300 x 450 mm holes, 450 mm deep filled to not less than half the depth with concrete.
 - 7.3. Intermediate posts: Driven to a minimum depth of 600 mm.
8. Accessories: None.
9. Conformity: Submit manufacturer's and installer's certificates, to BS 1722-2.

320 Cleft chestnut pale fencing

1. Manufacturer: Contractor's choice
2. Standard: To BS 1722-4, type CW 90.
3. Height: 900 mm
4. Posts and struts: Wood.
 - 4.1. Treatment: None.
5. Centres of posts (maximum)
 - 5.1. Straining posts: 70 m in straight runs and at all ends, corners, changes of direction and acute variations in level.
 - 5.2. Intermediate posts: 2.25 m
6. Method of setting posts and struts
 - 6.1. Straining posts: Rammed earth set to a depth of 600 mm.
 - 6.2. Struts: Contractor's choice.
 - 6.3. Intermediate posts: Driven to a minimum depth of 600 mm.
7. Accessories: None.

Gates, posts and stiles

515 VEHICLE GATE TYPE A

1. Manufacturer: Secure-a-Field Fencing & Access Solutions
 - 1.1. Website: <https://www.secure-a-field.co.uk/>
 - 1.2. Telephone: 01530 242 405
 - 1.3. Email: sales@secure-a-field.co.uk
 - 1.4. Product reference: Steel Field Gate
2. Sizes: 4200 mm width x 1250 mm height
3. Posts: Hanging and slamming posts 120 mm x 120 mm.
4. Finish as delivered: Hot-dipped galvanised to BS EN ISO 1461.
5. Fittings: Spring loaded sliding bolt.
Inverted hooks on hanging post and slotted slamming posts as supplied.
Adjustable heavy duty hinge system as supplied.
 - 5.1. Finish: Hot-dip galvanized to BS EN ISO 1461
6. Method of fixing: Posts set in 450 mm square x 600 mm deep concrete, to Engineer's Specification.
7. Accessories: None.

570 A GATE TYPE A

1. Manufacturer: Secure-a-Field Fencing & Access Solutions
 - 1.1. Website: <https://www.secure-a-field.co.uk/>
 - 1.2. Telephone: 01530 242 405
 - 1.3. Email: sales@secure-a-field.co.uk
 - 1.4. Product reference: Matlock Medium Mobility Kissing Gate
2. Sizes: 1100 mm height x 2300 mm overall width. 1130 mm gate leaf width.
3. Posts: Included in overall 'H frame'.
4. Finish as delivered: Hot-dipped galvanised.
5. Fittings: As supplied.
 - 5.1. Finish: As supplied.

6. **Method of fixing:** Posts set in 450 mm square x 600 mm deep concrete, to Engineer's Specification.
7. **Accessories:** Reversible D loop striker and auto-catch as supplied.

570 B GATE TYPE B

1. **Manufacturer:** Secure-a-Field Fencing & Access Solutions
 - 1.1. **Website:** <https://www.secure-a-field.co.uk/>
 - 1.2. **Telephone:** 01530 242 405
 - 1.3. **Email:** sales@secure-a-field.co.uk
 - 1.4. **Product reference:** Ravensden Combination Gate with Steel Field Gate
2. **Sizes:** 1250 mm height x 5800 mm overall width.
1500 mm pedestrian gate width.
4000 mm vehicle gate width.
3. **Posts:** Included in overall 'H frame'.
4. **Finish as delivered:** Hot-dipped galvanised.
5. **Fittings:** As supplied.
 - 5.1. **Finish:** As supplied.
6. **Method of fixing:** Posts set in 450 mm square x 750 mm deep concrete, to Engineer's Specification.
7. **Accessories:** Bridleway handle and Easy-Access latch with straight handle as supplied. Field gate conversion kit with padlock-able drop bolt.

Accessories - Not Used

Execution

710 Installation generally

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

715 Competence

1. **Operatives:** Contractors must employ competent operatives.
2. **Qualifications:** Submit certification of training.
 - 2.1. **NHSS Sector Scheme 2A sub categories:** Not required
 - 2.2. **NHSS Sector Scheme 2C sub categories:** Not required

720 Setting posts in concrete

1. **Standard:** To BS 8500-2 and to Engineer's Specification.
2. **Mix:** Designated concrete not less than GEN1 or Standard prescribed concrete not less than ST2. Refer to Engineer's Specification.
3. **Admixtures:** Do not use.
4. **Holes:** Excavate neatly and with vertical sides.
5. **Filling:** Position post/ strut and fill hole with concrete to not less than the specified depth, well rammed as filling proceeds and consolidated.

6. **Backfilling of holes not completely filled with concrete:** Excavated material, well rammed and consolidated.

730 Exposed concrete foundations

1. **Filling:** Compact until air bubbles cease to appear on the upper surface.
2. **Finishing:** Weathered to shed water and trowelled smooth.

740 Setting posts in earth

1. **Holes:** Excavated neatly, with vertical sides and as small as practicable to allow refilling.
2. **Filling:** Position posts/ struts and replace excavated material, well rammed as filling proceeds.

750 Driven posts

1. **Damage to heads:** Minimize.
 - 1.1. **Repair:** Neatly finish post tops after installation.

770 Site cutting of wood

1. **General:** Kept to a minimum.
2. **Below or near ground level:** Cutting prohibited.
3. **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

1. **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.
2. **Thickness:** Apply sufficient material to provide a zinc coating at least equal in thickness to the original layer.

Completion

910 Cleaning

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

920 Fixings

1. **All components:** Tighten.
 - 1.1. **Timing:** Before handover.

930 Gates

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

Ω End of Section

Q50

Site/ street furniture/ equipment

Gates, barriers and parking controls - Not Used

Site and street furniture

210 Cycle stands

1. Manufacturer: Broxap Ltd.
T: 01782 564411
E: info@broxap.com
W: www.broxap.com
 - 1.1. Product reference: Sheffield Cycle Stand.
2. Type: Single stands.
3. Material: Steel.
 - 3.1. Finish: Hot-dip galvanized to BS EN ISO 1461.
 - 3.2. Colour: None.
4. Accessories: None.
5. Method of fixing: Root fixed, 300 mm below ground, set in concrete base in accordance with the manufacturer's written instructions.

220 A Bench Seat Type 1

1. Description: For seating adjacent to path network.
2. Manufacturer: Streetmaster Products
 - 2.1. Address: Unit 4, Woodlands Business Park
Ystradgynlais
Swansea
SA9 1JW
 - 2.2. Email: mail@streetmaster.co.uk
 - 2.3. Telephone: 01639 845394
 - 2.4. Website: www.streetmaster.co.uk
 - 2.5. Product reference: Woodland Bench.
3. Material: FSC certified Green European Oak.
 - 3.1. Finish: Natural, oiled.
 - 3.2. Colour: None.
4. Size: 2000 mm length x 325 mm depth x 450 mm height above ground.
5. Accessories/ Special requirements: None.
6. Method of fixing: Root fixed with extended legs (750 mm below finished ground level) in accordance with the manufacturer's written instructions.

225 A Bench Seat Type 2

1. Description: For seating at focal point.
2. Manufacturer: Streetmaster Products
 - 2.1. Address: Unit 4, Woodlands Business Park
Ystradgynlais
Swansea
SA9 1JW
 - 2.2. Email: mail@streetmaster.co.uk

- 2.3. Telephone: 01639 845394
- 2.4. Website: www.streetmaster.co.uk
- 2.5. Product reference: Woodland Seat.
- 3. Material: FSC certified Green European Oak.
 - 3.1. Finish: Natural, oiled.
 - 3.2. Colour: None.
- 4. Size: 2000 mm length x 580 mm total depth x 450 mm seating height (770 mm total height) above ground.
- 5. Accessories/ Special requirements: None.
- 6. Method of fixing: Root fixed with extended legs (750 mm below finished ground level) in accordance with the manufacturer's written instructions.

230 Picnic Table Type 1

- 1. Description: For picnic area at focal point.
- 2. Manufacturer: Greenspace Designs Ltd.
 - 2.1. Address: Linnacombe
Sourton
Okehampton
Devon
EX20 4HX
 - 2.2. Email: info@greenspace.co.uk
 - 2.3. Telephone: 01837 861664
 - 2.4. Website: www.greenspace.co.uk
 - 2.5. Product reference: All-Ability Picnic Table.
- 3. Material: UK sourced Green Oak.
 - 3.1. Finish: Natural, oiled.
 - 3.2. Colour: None.
- 4. Size: 2200 mm long benches with 3500 mm long table, as supplied.
- 5. Accessories/ Special requirements: None.
- 6. Method of fixing: Root fixed with extended legs (600 mm below finished ground level) in accordance with the manufacturer's written instructions.

235 Information boards

- 1. Description: To entrance locations.
- 2. Manufacturer: Landmark.
 - 2.1. Address: (Head office)
2 Fountain Drive
Hertford
SG13 7UB
 - 2.2. Email: enquiries@madebylandmark.com
 - 2.3. Telephone: 0808 1293773
 - 2.4. Product reference: Aberdeen Timber Lectern ref.71001D.
- 3. Material: Oak.
 - 3.1. Finish: Natural, oiled.
 - 3.2. Colour: None.
- 4. Size: A2 display at 45 degrees.

5. **Accessories/ Special requirements:** Dibond digitally printed aluminium graphics panel, high pressure laminated.
Tamper resistant fixings.
6. **Method of fixing:** Root fixed approx. 600 mm below finished ground level, backfilled to 50mm below finished ground level with concrete in accordance with the manufacturer's written instructions.

240 Litter bins

1. **Description:** Dog Waste Bin (LB on drawings).
2. **Manufacturer:** JRB Enterprise Ltd.
 - 2.1. **Address:** Unit 27 Old Wool Lane
Demmings Road Ind Est
Cheadle
Cheshire
SK8 2PE
 - 2.2. **Email:** info@jrbenterprises.com
 - 2.3. **Telephone:** 0161 4915001
 - 2.4. **Website:** www.jrbenterprises.com
 - 2.5. **Product reference:** Gladiator Dog Bin
3. **Material:** Steel.
 - 3.1. **Finish:** Hot-dip galvanized to BS EN ISO 1461 and polyester powder-coated, as supplied.
 - 3.2. **Colour:** Green.
4. **Accessories/ Special requirements:** None.
5. **Method of fixing:** Root fixed in accordance with the supplier's written instructions.

350 A Ecological Feature Type 2: Bat Box

1. **Description:** Bat roost box. Refer to Q05 Clause 110 B.
2. **Manufacturer:** Schwegler.
 - 2.1. **Product reference:** 2F Bat Box.
3. **Material:** Woodcrete.
 - 3.1. **Finish:** As manufactured.
 - 3.2. **Colour:** None.
4. **Accessories/ Special requirements:** None.
5. **Method of fixing:** Tree-mounted.

350 B Ecological Feature Type 3: Bird Box

1. **Description:** Bird nesting box. Refer to Q05 Clause 110 C.
2. **Manufacturer:** Schwegler.
 - 2.1. **Product reference:** 1B Bird Box.
3. **Material:** Woodcrete.
 - 3.1. **Finish:** As manufactured.
 - 3.2. **Colour:** None.
4. **Accessories/ Special requirements:** None.
5. **Method of fixing:** Tree-mounted.

Installation

510 Concrete foundations generally

1. **Standard:** To BS 8500-2 and to Engineer's Specification.
2. **Concrete:** Standard prescribed, not less than ST2. Refer to the Engineer's Specification.
3. **Admixtures:** Do not use.
4. **Foundation holes:** Neat vertical sides.
5. **Depth of foundations, bedding, haunching:** In accordance with the Engineer's Specification and the manufacturer's written instructions.

515 Setting components in concrete

1. **Holes:** In accordance with the Engineer's Specification and the manufacturer's written instructions.
2. **Components:** Accurately positioned and securely supported.
3. **Concrete fill:** Fully compacted as filling proceeds.
4. **Concrete foundations exposed to view:** Compacted until air bubbles cease to appear on the upper surface, then weathered to shed water and trowelled smooth.
5. **Temporary component support:** Maintain undisturbed for minimum 48 hours.

520 Setting in earth

1. **Holes:** As small as practicable.
2. **Components being fixed:** Accurately positioned and securely supported.
3. **Buried depth (minimum):** In accordance with the manufacturer's written instructions.
4. **Earth refill:** Well rammed as filling proceeds.

530 Preservative treated timber

1. **Surfaces exposed by minor cutting and drilling:** Treated by immersion or with two flood coats of a solution recommended for the purpose by main treatment solution manufacturer.
2. **Heavily worked sections:** Re-treat.

550 Damage to galvanized surfaces

1. **Minor damage in areas up to 40 mm² (including on fixings and fittings):** Make good.
 - 1.1. **Material:** 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.
 - 1.2. **Thickness:** Sufficient to provide a zinc coating at least equal to the original layer.

560 Site painting

1. **Timing:** Prepare surfaces and apply finishes as soon as possible after fixing.

Ω End of Section



Specification created using NBS Chorus