N1212

One Environments Ltd

Cumberland Council

Cleator Moor innovation Quarter (HUB)

CMIQ-ONE-ZZ-XX-SP-L-0001

CMIQ (HUB) Landscape Specification

RIBA Stage 4

P02

02-10-2024

Contents

D20
Excavating and filling

Summary

Revision history

Date	No.	Title	Status	Revision	Note
24/08/2023	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	DRAFT	P01	
02/10/2024	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	RIBA Stage 4	P02	

Generally/the site

110 Site investigation

1. Report: Refer to engineers specification

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: Refer to engineers specification
2. Site features to be retained: Refer to engineers specification
3. Structures: Refer to engineers specification

Clearance/excavating

164 Tree roots

1. Protected area: Do not cut roots within precautionary protection area.
    1.1. Size of area: To be assessed by a suitably qualified Arboriculturist
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: As advised by a suitably qualified Arboriculturist
5. Backfill: As dug material, enriched with phosphate fertilizer

166 Tree root barriers

1. Trench: Sever all roots.
    1.1. Depth: submit proposals
2. Root barrier: submit proposals
3. Cutting roots: As clause 164.
4. Root barrier installation: Full depth of excavation. Fit closely to trench wall nearest the tree.
5. Backfill material: As dug material excavated from trench.
6. Backfilling: Lay and compact thoroughly in layers not more than 300 mm thick.

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. Ensure herbicide is appropriate for use in location adjacent to the existing water course.

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.

175 Felling large trees

1. Definition: Girth over 600 mm.
2. Identification: Clearly mark trees to be removed.
3. Safety: Comply with Forest Industry Safety Accord safety leaflets.
4. Felling: As close to the ground as possible.
5. Stumps: Remove mechanically to a minimum depth of 300 mm below ground level
6. Work near retained trees: Take down trees carefully in small sections to avoid damage to adjacent trees that are to be retained, where tree canopies overlap and in confined spaces generally.

180 Chipping and shredding

1. General: Not permitted

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: Not required

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.

Disposal of materials

415 Excavated topsoil removal

1. General: 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 - Not Used

Bioremediation - Not Used

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

Ω End of Section

D41
Crib walls, gabions and other gravity retaining walls ADDED

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To be read with preliminaries/ general conditions.

210 Gabions ADDED

1. Manufacturer: Contractor's choice
   1.1. Product reference: Contractor's choice
2. Configuration:
   2.1. Sizes: 600mm High as shown on section drawings
   2.2. Mesh: Welded wire to BS 1052
   2.3. Diaphragm: Welded wire to BS 1052
3. Fill to units
   3.1. Material: Recycled crushed concrete aggregate subject to confirmation of category
   3.2. Size/ grading: 1.5x size of mesh, maximum 200mm, in any direction
4. Substrate: To engineer detail
5. Batter of wall face: Vertical
6. Geotextile: To engineers detail
7. Other requirements: Place external face fill by hand

Ω End of Section

Q10
Kerbs/ edgings/ channels/ paving accessories

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Types of kerbs/edgings and channels

200 Special

1. Description: Concrete Edging Type 1
2. Manufacturer: Tobermore or similar approved
   2.1. Product reference: Fusion Edge
3. Size: 1150x75x900
4. Type/ Material:
   4.1. Finish: exposed granite aggregate finish
   4.2. Colour: Silver
5. Accessories:
6. Bedding: To engineers detail
7. Joints: To engineers detail

204 Proprietary Aluminium Edging

1. Desciption: TO ALL FOOTPATH EDGES - refer to drawings
2. Manufacturer: Kinley,
   Kinley Innovation Centre, Paddock, Marley Lane Business Park,
   Battle,
   East Sussex,
   TN33 0RE
   Tel: 01580 830688
   www.kinley.co.uk
3. Product reference: AluExcel Rigid and Flexible
4. Finish: Mill Aluminium
5. Dimensions: 25x45mm; 75x70mm; 120x70mm
6. Accessories: Aluminium spiral fixing spikes
7. Installation: Secured to sub-base with spiral spikes in accordance with manufacturers instructions and recommendations.

Roads/paving accessories/ marking/ demarcation - Not Used

Laying

510 Laying kerbs, edgings and channels

1. Cutting: Neat, accurate and without spalling. Form neat junctions.
   1.1. Long units (450 mm and over) minimum length after cutting: 300 mm.
   1.2. Short units minimum length after cutting: The lower of one third of their original length or 50 mm.
2. Bedding of units: Positioned true to line and levelled along top and front faces, in a mortar bed on accurately cast foundations or on a race of fresh concrete.
3. Securing of units: After bedding has set, secured with a continuous haunching of concrete or on a race of fresh concrete with backing concrete cast monolithically.

600 Radius kerbs/ channels

1. Usage: Radii of 15 m or less.

610 Angle kerbs

1. Usage: Internal and external 90° changes of direction.

2. Cutting of mitres: Not permitted.

620 Accuracy

1. Deviations (maximum)
   1.1. Level: ± 6 mm.
   1.2. Horizontal and vertical alignment: 3 mm in 3 m.

625 Regularity of paved surfaces

1. Maximum undulation of (non-tactile) paving surface: 3 mm.
   1.1. Method of measurement: Under a 1 m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface).
2. Difference in level between adjacent units (maximum)
   2.1. Joints flush with the surface: Twice the joint width (with 5 mm max difference in level).
   2.2. Recessed, filled joints: 2 mm.
      2.2.1. Recess depth (maximum): 5 mm.
   2.3. Unfilled joints: 2 mm.
3. Sudden irregularities: Not permitted.

Ω End of Section

Q23
Gravel/ hoggin/ woodchip/ resin bound roads/ pavings/ overlays

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02/10/2024	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	RIBA Stage 4	P02	

Types of surfacing

225 Proprietary resin bound chippings Type 1

1. Description: Resin Bound Surface Type 1
2. Subgrade improvement layer: Contractor's choice
    2.1. Compacted thickness: Contractor's choice
3. Geomembrane: Geotextile installed above sub-grade
    3.1. Manufacturer: Terram or similar approved
4. Granular sub-base: Type 1 Unbound (Engineer to confirm)
    4.1. Compacted thickness: 250mm (Engineer to confirm)
5. Base course: 50mm AC20 Close Graded Bonder 100/150 (Engineer to confirm)
6. Surface course
    6.1. Manufacturer: Sureset or similar approved
    6.2. Chippings: Natural Aggregate
        6.2.1. Colour: Aztec Gold
    6.3. Aggregate size: 6mm
7. Application: Thoroughly mixed and uniformly spread.
    7.1. Thickness: 15 mm
    7.2. Compaction to all layers: By heavy roller or other appropriate means, adequate to resist subsidence or deformation of the completed roads/ pavings when in use.

225 Proprietary resin bound chippings Type 2

1. Description: Resin Bound Surface Type 2
2. Subgrade improvement layer: Contractor's choice
    2.1. Compacted thickness: Contractor's choice
3. Geomembrane: Geotextile installed above sub-grade
    3.1. Manufacturer: Terram or similar approved
4. Granular sub-base: Type 1 Unbound (Engineer to confirm)
    4.1. Compacted thickness: 250mm (Engineer to confirm)
5. Base course: 50mm AC20 Close Graded Bonder 100/150 (Engineer to confirm)
6. Surface course
    6.1. Manufacturer: Sureset or similar approved
    6.2. Chippings: Natural Aggregate
        6.2.1. Colour: Winter Bronze
    6.3. Aggregate size: 6mm
7. Application: Thoroughly mixed and uniformly spread.
    7.1. Thickness: 15 mm
    7.2. Compaction to all layers: By heavy roller or other appropriate means, adequate to resist subsidence or deformation of the completed roads/ pavings when in use.

Laying

315 Materials

1. Compatibility: Chippings suitable for use with respective binders/ emulsions/ resin/ epoxy.

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 Drainage falls

1. Sealed surfaces
   1.1. Falls and cross falls (minimum): 1:40.
   1.2. Camber (minimum): 1:50.
2. Unsealed surfaces (minimum): 1:30.

380 Laying granular surfaces in pedestrian areas and cycle tracks

1. Permissible deviation from required levels, falls and cambers (maximum): ±12 mm.
2. General: Spread and level in 100 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

Q24
Interlocking brick/ block roads/ pavings

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02/10/2024	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	RIBA Stage 4	P02	

Types of paving

110 Concrete Paving Type 1

1. Description: TO BUILDING SURROUND
2. Subgrade improvement layer: To engineers detail
3. Granular sub-base: To engineers detail
4. Laying course
    4.1. Material: In accordance with BS 7533-3.
        4.1.1. Category: To engineers detail
    4.2. Method of screeding, in accordance with BS 7533-3: To engineers detail
    4.3. Nominal thickness after compaction: To engineers detail
5. Blocks: To BS EN 1338.
    5.1. Manufacturer: Tobermore or similar approved
        5.1.1. Product reference: Braemar Ground
    5.2. Sizes: 300x200x80mm
    5.3. Arrises: Pencil
    5.4. Colour/ Finish: Jura Grey
6. Jointing
    6.1. Material: In accordance with BS 7533-3.
    6.2. Joint width: 2-5 mm (engineer to confirm)
7. Setting out
    7.1. Bond: 45° herringbone
    7.2. Features: Mortar bedded edge restraint

110 Concrete Paving Type 1 Type 2

1. Description: TO FOOTPATHS
2. Subgrade improvement layer: To engineers detail
3. Granular sub-base: To engineers detail
4. Laying course
    4.1. Material: In accordance with BS 7533-3.
        4.1.1. Category: To engineers detail
    4.2. Method of screeding, in accordance with BS 7533-3: To engineers detail
    4.3. Nominal thickness after compaction: To engineers detail
5. Blocks: To BS EN 1338.
    5.1. Manufacturer: Tobermore or similar approved
        5.1.1. Product reference: Braemar Ground
    5.2. Sizes: 300x200x80mm
    5.3. Arrises: Pencil
    5.4. Colour/ Finish: Alto Silver
6. Jointing
    6.1. Material: In accordance with BS 7533-3.
    6.2. Joint width: 2-5 mm (engineer to confirm)
7. Setting out
    7.1. Bond: Running
    7.2. Features: Mortar bedded edge restraint

115 Permeable concrete block paving Type 1

1. Description: TO STANDARD PARKING BAYS
2. Subgrade improvement layer: To engineers Detail
3. Granular sub-base: To engineers Detail
   3.1. Compacted thickness: To engineers Detail
4. Laying course
   4.1. Material: To engineers Detail
   4.2. Compaction: In accordance with BS 7533-3. Determine by trial the depth of loose bedding material needed to ensure specified bedding course thickness after final compaction of paving.
   4.3. Nominal thickness after compaction: To engineers Detail
5. Blocks: To BS EN 1338.
   5.1. Manufacturer: Tobermore or similar approved
      5.1.1. Product reference: Hydropave Pedesta
   5.2. Sizes: 200x100x80mm
   5.3. Colour/ Finish: Bracken
6. Jointing
   6.1. Material: To engineers Detail
   6.2. Joint width: 6 mm (engineer to confirm)
7. Setting out
   7.1. Bond: 45° herringbone
8. Accessories: Contrasting Block Paver demarcation strips

115 Permeable concrete block paving Type 2

1. Description: TO ACCESSIBL PARKING BAYS MOVEMENT ZONE
2. Subgrade improvement layer: To engineers Detail
3. Granular sub-base: To engineers Detail
   3.1. Compacted thickness: To engineers Detail
4. Laying course
   4.1. Material: To engineers Detail
   4.2. Compaction: In accordance with BS 7533-3. Determine by trial the depth of loose bedding material needed to ensure specified bedding course thickness after final compaction of paving.
   4.3. Nominal thickness after compaction: To engineers Detail
5. Blocks: To BS EN 1338.
   5.1. Manufacturer: Tobermore or similar approved
      5.1.1. Product reference: Hydropave Pedesta
   5.2. Sizes: 200x100x80mm
   5.3. Colour/ Finish: Natural
6. Jointing
   6.1. Material: To engineers Detail
   6.2. Joint width: 6 mm (engineer to confirm)
7. Setting out
   7.1. Bond: 45° herringbone
   7.2. Features: Accessible Bay Marker in paving

8. Accessories: Contrasting Block Paver demarcation strips

Execution

200 Execution generally – concrete block and clay paver paving

1. Standard: In accordance with BS 7533-3.

211 Colour banding

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

220 Samples

1. General: Before ordering, submit samples of concrete blocks/ pavers/ setts that are representative of colour and appearance.

230 Control samples

1. General: Carry out sample area of finished work:
    1.1. Location: TBC
    1.2. Size (minimum): 5m x 5m
    1.3. Features to be included: Channel Edging Kerb Junction with building facade
2. Give notice: When ready for inspection.
3. Timing: Obtain approval of appearance before proceeding.

240 Adverse weather

1. General: Do not use frozen materials or lay bedding on frozen or frost covered sub-bases.

485 Laying blocks/ pavers/ setts

1. Setting out: Start from an edge restraint.
2. Cutting: Cleanly, accurately and vertically, without spalling. Do not mark or damage visible surfaces.
3. Cut edges: Turn inwards where possible; do not position against edge restraints or other features.
4. Compaction: Vibrate to produce thoroughly interlocked paving of even overall appearance with regular joints and accurate to line, level and profile. Do not mark or damage paving units, kerbs and adjacent work.
    4.1. Concrete blocks and clay pavers: In accordance with BS 7533-3, Annex F, to site category required for laying course material.

500 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.
2. Difference in level between adjacent paving units (maximum): 2 mm.
3. Sudden irregularities: Not permitted.

505 Regularity of paved surfaces

1. Maximum undulations in the surface of pavings (except tactile paving surfaces) under a 1 m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface): 3 mm.
2. Joints between paving units or utility access covers

2.1. Joints flush with the surface: difference in level between adjacent units to be no more than twice the joint width (with a 5 mm max difference in level).

2.2. Recessed, filled joints: difference in level between adjacent units to be no greater than 2 mm; the recess to be no deeper than 5 mm.

2.3. Unfilled joints: difference in level between adjacent units to be no greater than 2 mm.

3. Sudden irregularities: Not permitted.

Completion

615 Completion of paving

1. Final compaction of the surface course: In accordance with BS 7533-3.
2. Vacuum cleaning machines: Not allowed.

Ω End of Section

Q28
Topsoil and soil ameliorants

Summary

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System outline

135 Planting bed topsoil system

1. Description: FOR GENERAL PLANTING AREAS
2. Composition
    2.1. Topsoil: Imported topsoil to BS 3882:2015
    2.2. Subsoil: Imported subsoil to BS 8601:2013
    2.3. Ameliorants: None
    2.4. Accessories: None
    2.5. Top dressing: Organic materials - bark mulch as clause 354

145 Tree pit backfilling topsoil system

1. Description: FOR ALL TREE PITS
2. Composition
    2.1. Topsoil: Imported topsoil to BS 3882:2015
    2.2. Subsoil: Imported subsoil to BS 8601:2013
    2.3. Ameliorants: None
    2.4. Accessories: Mycorrhizal inoculant
    2.5. Top dressing: Organic materials - bark mulch as clause 354

155 Mulching and top dressing system

1. Description: FOR ALL PLANTING AREAS
2. Composition
    2.1. Material: Organic materials - bark mulch as clause 354

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: Bark; Composted green waste
2. Give notice: before ordering or using.
3. Declaration of compliance in accordance with BS EN 13650: Required

310 Materials not permitted

1. Materials: Products containing peat; River and canal dredgings

315 Imported topsoil to BS 3882

1. Description: FOR PLANTING BEDS 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 loam
5. Source: Submit proposals
   5.1. Product reference: Submit proposals

354 Organic Materials - Bark Mulch

1. Description: FOR ALL PLANTING AREAS
2. Type: Natural bark
3. Supplier: Melcourt Industries Limited,
   Boldridge Brake, Long Newnton,
   Tetbury, Gloucestershire.
   GL8 8RT
   Tel: +44(0)1666 502711
   Web: www.melcourt.co.uk
4. Product: Bark nuggets or equal approved
5. Nominal particle size: 15 to 65mm
6. Certification: FSC certified
7. Laying depth: 75mm (after settlement)

380 Mycorrhizal inoculant

1. Description: FOR TREE PITS
2. Manufacturer: Contractor's choice
   2.1. Product reference: Contractor's choice

Execution

606 Site investigation report

1. Refer to the civil engineers specification

610 Topsoil and subsoil analysis

1. Soil to be analysed: Imported topsoil; Manufactured topsoil; Imported subsoil
2. Soil analyst: Submit proposals
3. Samples: Collect in accordance with BS 3882 (topsoil) and BS 8601(subsoil)
4. Submit
   4.1. Declaration of analysis: In accordance with BS 3882, clause 6 and Table 1.
   4.2. Additional analysis: Chemical analysis, Chemical contaminants, Phytotoxic and CLEA elements, Potentially toxic elements (PTEs), Maximum stone content, stone size and pH value; and Nutrient content, pH value and textural classification
   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 AND SUBSOIL
2. Deliver to site a sample load: of not less than 5 m³
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 and subsoil

1. Description: FOR CONTAINER PLANTING, PLANTING BEDS 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 (topsoil) and BS 8601 (subsoil)
4. Number of copies: Three

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:

1. Description: ALL PLANTING AREAS
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.

670 Inspecting formations

1. Give notice: Before spreading topsoil for planting beds.
2. Notice period: 7 days

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: ALL PLANTING AREAS
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: As indicated on drawings
6. Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

718 Final cultivation

1. Description: FOR PLANTING BEDS

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: As indicated on drawings
5. Particle size (maximum): 15 mm
6. Timing: Within a few days before planting
7. Weather and ground conditions: Suitably dry.
8. Surface: Leave regular and even.
9. Levels: 25 mm above adjoining paving or kerbs
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: 25 mm above
2. In relation to dpc of adjoining buildings: Not less than 150 mm below.
3. Within root spread of existing trees and shrubs to be retained: Do not dig or cultivate.
4. Adjoining soil areas: Marry in.
5. Thickness of turf or mulch: Included.

840 Applying mycorrhizal inoculant

1. Description: FOR TREE PITS
2. Depth: To manufacturer's/ supplier's recommendations

845 Applying loose mulch

1. Description: FOR PLANTING BEDS
2. Timing: Immediately after planting
3. Preparation: Clear all weeds. Ensure that soil is thoroughly moistened, applying water where necessary
4. Coverage of mulch (minimum)
    4.1. Planting beds (depth): 75 mm depth
    4.2. Trees: In a circular area of 500 mm radius measured from the tree stem. 75mm depth.
    4.3. Container planting: 50 mm depth
5. Finished level of mulch: 30 mm below adjacent grassed or paved areas

Completion

920 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. Planting beds: Re-mulch.
    3.1. Depth (minimum): 75 mm
4. Trees: Remulch.
    4.1. Depth (minimum): 75 mm
5. Container planting: Remulch.
    5.1. Depth (minimum): 50 mm

Ω End of Section

Q30
Seeding/ turfing

Summary

Revision history

Date	No.	Title	Status	Revision	Note
24/08/2023	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	DRAFT	P01	
02/10/2024	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	RIBA Stage 4	P02	

General information/requirements

115 Seeded and turfed 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 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/turfing.

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: 2 weeks

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: FOR ALL GRASSED AREAS AND WILDFLOWER MEADOWS
2. Type: Suitable for suppressing perennial weeds.
3. Timing: Allow fallow period before cultivation.
    3.1. Duration: As manufacturer's recommendation

212 Seed bed cleaning before sowing

1. Description: ALL GRASSED AREAS AND WILDFLOWER MEADOWS
2. Operations: As seed supplier's recommendations.

250 Soil requirements

1. Type
   1.1. Seeded areas: Soil for grass swards, as section Q28
   1.2. Turfed areas: Soil for grass swards, as section Q28
   1.3. Reinforced grass areas: Soil for grass swards, as section Q28

Seeding

311 Grass seed

1. Description: SWALE WETLAND MIX
2. Supplier: Emorsgate or similar approved
   2.1. Mixture reference: EM8
3. Application rate: 5-10 g/m²

312 Wildflower seed mixture

1. Description: WILDFLOWER MEADOW
2. Supplier: Emorsgate or similar approved
   2.1. Mixture reference: Special General Purpose Meadow Mixture EM3
3. Origin of each species (as defined in Flora Locale's Code of practice for collectors, growers and suppliers of native flora): British Native
4. Application rate: Supplier's recommendations

319 Quality of seed

1. Description: FOR ALL GRASSED AREAS
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: FOR WILDFLOWER MEADOWS
2. Standard: In accordance with Flora Locale's 'Code of practice for collectors, growers and suppliers of native flora'.
3. Germination testing: Submit germination test results (to ISTA International rules for seed testing)
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

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: FOR ALL GRASSED AREAS
2. Standard: Pesticide Safety Directorate approved.
3. Application rate: In accordance with manufacturer's written recommendation.
    3.1. Timing: Immediately after sowing.

361 Plastics mesh reinforcement

1. Description: FIRE ACCESS PATH
2. Manufacturer: Grassform Group or similar approved
    2.1. Product reference: Geogrid Premium
3. Subgrade/ Preparation: Cultivate as section Q28
4. Sub-base: To Engineers Detail
    4.1. Depth: To Engineers Detail
5. Topsoil: Soil system for grass swards as section Q28
6. Reinforced root zone
    6.1. Composition: 75:25 sand:fine soil and polypropylene reinforcement
    6.2. Thickness: To Engineers Detail
    6.3. Consolidation: Level and lightly consolidate with vibrating roller
7. Fertilizer: Organic fertilizer, as section Q28
8. Grass cover: Cultivated turf for reinforced grass system

Turfing

400 Cultivated turf

1. Description: SPECIES RICH GRASSLAND
2. Supplier: Wildflower Turf
    2.1. Product reference: WFT Species Rich 26
3. Properties of soil used for turf production: Peat-free, well drained sandy loam

420 Delivery and storage

1. Timing: Lay turf with minimum possible delay after lifting. If delay occurs, lay turf out on topsoil and keep moist.
2. Frosty weather or waterlogged ground: Do not lift turf.
3. Delivery: Arrange to avoid need for excessive stacking.
4. Stacking height (maximum): 1 m.
5. Dried out or deteriorated turf: Do not use.
6. Certification
    6.1. Standard: To BS 3969.
    6.2. Declaration: Sward species composition

430 Turfing generally

1. Time of year: To be agreed
2. Timing of laying

2.1. Spring and summer: Within 18 hours of delivery.

2.2. Autumn and winter: Within 24 hours of delivery.

3. Weather conditions: Do not lay turf when persistent cold or drying winds are likely to occur or soil is frost bound, waterlogged or excessively dry.
4. Working access: Planks laid on previously laid turf. Do not walk on prepared bed or newly laid turf.
5. Jointing: Laid with broken joints, well butted up. Do not stretch turf.
6. Edges: Whole turfs, trimmed to a true line.
7. Adjusting levels: Remove high spots and fill hollows with fine soil.
8. Consolidating: Lightly and evenly firm as laying proceeds to ensure full contact with substrate. Do not use rollers.
9. Dressing, brushed well in to completely fill all joints: None
10. Watering: Thoroughly water completed turf immediately after laying. Check that water has penetrated into the soil below.

Protecting/cutting

530 First cut of grassed areas

1. Timing: When grass is reasonably dry.
   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

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 Failures of seeding/ turfing

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

650 Maintaining grassed areas with perennial wildflowers

1. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
2. Preparation: Before each cut remove all litter and debris.
3. Height and frequency of cut in first growing season
   3.1. Time of first cut: March/ April
   3.2. Height of first cut: 100 mm

3.3. Frequency of subsequent cutting (minimum): Every 6-8 weeks until autumn

3.4. Height of growth permitted (maximum): 100 mm 150 mm

4. Height and frequency of cut in second growing season

4.1. Time of cut: October, March and August

4.2. Height of cut: 100 mm

5. Trimming: All edges.

5.1. Arisings: Remove.

6. Watering: Contractor's choice

Ω End of Section

Q31
External planting

Summary

Revision history

Date	No.	Title	Status	Revision	Note
24/08/2023	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	DRAFT	P01	
02/10/2024	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	RIBA Stage 4	P02	

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 surface vegetation in all areas. Submit proposals for the method of removal considering the site location adjacent to an existing water course. Protect existing trees to be retained - refer to drawings.
5. Large roots: Grub up and dispose of without undue disturbance of soil and adjacent areas.
6. Additional requirements: Remove remnants of old street furniture, fencing or other features.

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. Conifers and evergreens: September/ October or April/ May.
3. Herbaceous plants (including marginal): September/ October or March/ April.
4. Container grown plants: At any time if ground and weather conditions are favourable.
    4.1. Watering and weed control: Provide as necessary.
5. Dried bulbs, corms and tubers: September/ October.
6. Colchicum (crocus): July/ August.
7. Green bulbs: After flowering in spring.
8. Wildflower plugs: Late August to mid November or March/ April.
9. Aquatic plants: May/ June or September/ October.

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 Soil requirements

1. Type
    1.1. Planted beds: Planting bed soil system, as section Q28
    1.2. Tree pits, shrub pits and other backfilling: Plant pit backfilling soil system, as section Q28
    1.3. External container planting: Container planting growing media system, as section Q28
    1.4. 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: As plant schedule / British provenance
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).

225 Bulbs/ Corms/ Tubers

1. Condition: Firm, entire, not dried out or shrivelled.
2. Health: Free from pests, diseases and fungus.
3. Handling: Remove from packaging immediately.
4. Storage: Permitted only when necessary.
    4.1. Location: Well ventilated, dark, covered, rodent proof container, away from exhausts and fruit.
    4.2. Duration: Minimum period.
    4.3. Temperature: 18-21°C.

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.

248 Nursery Visits

1. Cost of nursery visit: Contractor to cover all reasonable costs associated with nursery visits including transport to and from the nursery, sustenance and lodging (if necessary).
2. Personnel for nursery visits: Two members from the Landscape Architecture team and two members from the client team.
3. Number and purpose of visit:
   - On sourcing of plant stock: To inspect the quality and tag specimens, to inspect nursery maintenance operations and standards
   - Prior to delivery to site: To ensure plant stock meets the minimum specification and has remained healthy and suitable for delivery.
4. Plant sizes: Purchased at a smaller size than specified during advance procurement as Q31/247, but ensure plants will be able to at least meet the specified size on delivery.
5. Maintenance at nursery: All plant stock to be retained at the nursery with all necessary maintenance procedures in place to ensure the healthy growth and development of the specimens
6. Plant failure: Any plants that fail prior to delivery are to be replaced with specimens of equal size, species and form at the contractors cost.

255 Plants/ Trees reserved at supplier’s premises

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

260 Plant/ Tree substitution

1. Plants/ trees unobtainable or known to be likely to be unobtainable at time of ordering: Submit alternatives, stating:
    1.1. Price.

1.2. Difference from specified plants/ trees.

2. Approval: Obtain before making any substitution.

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: Coextruded polyethylene bags with black interior and white exterior
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.

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: TO CLEAR EXISTING VEGETATION
2. Locations: All planting areas
3. Type: Suitable for supressing perennial weeds.
   Suitable for use adjacent to existing watercourse.
4. Timing: Allow fallow period before cultivation.
   4.1. Duration (minimum): As manufacturer's recommendation

Planting shrubs/ herbaceous plants/ bulbs

402 Planting Setting Out

1. All setting out is to be in accordance with the detailed planting plans.
2. Notice: Contractor to provide 2 weeks notice prior to planting operations to allow the Landscape Architect to visit site during operations.
3. For each planting area, the contractor is to set out all plants in their containers for review and approval by the Landscape Architect prior to planting. Any planting undertaken by the contractor without prior approval of the setting out by the Landscape Architect will be rejected.

405 Shrub planting pits

1. Timing: Excavate 1-2 days (maximum) before planting.
2. Sizes: Wide enough to accommodate roots when fully spread and 75 mm deeper than root system

3. Pit bottom improvement Break up to a depth of 150 mm, incorporating 25 g of slow release fertilizer per planting pit.

415 Antidesiccant for conifers/ Evergreens

1. Manufacturer: Contractor's choice
   1.1. Product reference: Contractor's choice
2. Application: Dip before delivering to site. Spray soon after planting.
   2.1. Do not apply in wet or frosty weather.
   2.2. Ensure full coverage of underside of foliage.

435 Climbing plants used as ground cover

1. Planting
   1.1. Canes or other supports: Remove.
   1.2. Arrangement: Spread stems.
2. Fixing: Pinned to ground to ensure good contact.

445 Planting bulbs/ Corms/ Tubers

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

470 Formal hedges

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

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: 75mm

Planting trees

500 Tree planting

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

502 Antidesiccant for conifers/ Evergreens

1. Manufacturer: Contractor's choice
   1.1. Product reference: Contractor's choice
2. Application: Dip or thoroughly spray before delivering to site. Spray again soon after planting.
   2.1. Do not apply in wet or frosty weather.
   2.2. Ensure full coverage of underside of foliage.

505 Tree pits

1. Sizes: 1200x1200x1200mm ensuring sufficient space for rootball anchors.
2. Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout.
3. Excavated material: Remove arisings
4. Pit bottoms: Excavate with slightly raised centre: Break up base to a depth of 150 mm.
5. Pit sides: Scarify.
6. Backfilling material: Each material shall be placed and firmed in 200mm layers, ensuring contact with the roots or root ball to and elimination of air pockets.
   The topsoil shall be firmed as backfilling proceeds taking care not to damage any roots and heeling in firmly around the root coller. The soils shall not be over compacted as this will potentially lead to particulate inter-packing, poor aeration
   and drainage, and redistricted root growth.
   6.1. Drawing Reference: N1331-ONE-ZZ-XX-DR-L-0202
   6.2. Backfill material: Imported topsoil as Section Q28
   Imported subsoil as Section Q28

510 Tree pit root barriers

1. Locations: Wherever the installed rootball will be within 2 m of a building foundation; Wherever the installed rootball will be within 3 m of an existing underground service route
2. Manufacturer: Submit proposals
   2.1. Product reference: Submit proposals
3. Thickness: Submit proposals
4. Barrier depth: Minimum 1m. For services more than 600mm below surface level - submit proposals.
5. Foil liner: Not required
6. Top of root barrier in relation to finished topsoil level: 25 mm below ground level
7. Installation: With sides vertical. Remove all sharp objects adjacent to barrier.

513 Tree irrigation rings

1. Manufacturer: GreenBlue Urban Ltd
   1.1. Contact details
      1.1.1. Address: Northpoint
      Compass Park
      Junction Road
      Bodiam
      East Sussex
      TN32 5BS
      1.1.2. Telephone: +44 (0)1580 830800
      1.1.3. Web: www.greenblue.com
      1.1.4. Email: hello@greenblueurban.com
   1.2. Product reference: RootRain Urban (RootRain Urban RRURB1A) or equal approved
2. Hose
   2.1. Material: Polypropylene.
   2.2. Colour: Black.
   2.3. Dimensions: 3 m x 60 mm (to be confirmed with manufacturer as appropriate to the specified tree).
3. Filling tube: Grille inlet, PE-HD moulded grid top.

4. Accessories: None.

515 Tree pit drainage

1. Locations: To all tree pits
2. Depth of excavation: If required, increase from specified size to allow for aggregate layer, with base slightly falling to sides.
3. Aggregate layer: Clean gravel or broken stone, with no fines, graded 40 to 20 mm.
   3.1. Depth: As indicated on drawings
4. Geotextile filter
   4.1. Manufacturer: Contractor's choice
      4.1.1. Product reference: Contractor's choice
   4.2. Position: Lay over aggregate before installing tree or backfill.
5. Completed pits: Test for free drainage before planting.

520 Cellular structural soil system

1. Locations: CAR PARK
2. Manufacturer: Green Blue Urban Ltd or similar approved
   2.1. Product reference: Rootspace Structure
3. Geotextile membrane: GBUGRN30 plastic open reinforcing mesh, 30mm aperture laid below and around sides of RootSpace structure
4. Installation: Ensure all void spaces are filled with lightly compacted growing medium prior to installation of further layers or sub-bases.

526 Root ball securing frames Type A

1. Description: ALL TREES
2. Manufacturer: GreenBlue Urban Ltd
   2.1. Contact details
      2.1.1. Address: Northpoint
      Compass Park
      Junction Road
      Bodiam
      East Sussex
      TN32 5BS
      2.1.2. Telephone: +44 (0)1580 830800
      2.1.3. Web: www.greenblue.com
      2.1.4. Email: hello@greenblueurban.com
   2.2. Product reference: ArborGuy Deadman Anchor
3. Anchoring system: 3 no pre-cast concrete dead-man anchors,
4. Installation: Ensure tree is positioned correctly and vertically prior to tightening guy line tensioners.

576 Tree pit surfacing – loose fill

1. Surfacing material: Mulch, as section Q28
2. Area: 1000 mm radius circle
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 - Not Used

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 rectification period. For all planting maintenance operations follow Section Q35.
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: During the next suitable planting season or in accordance with the agreed defects rectification programme - whichever is sooner.

730 Protective fencing

1. Fencing type: Cleft chestnut pale fencing, as section Q40
2. Erection: On completion of planting.
3. Removal: After planting is well established. Fencing will remain the property of the Contractor. Remove and refill post holes following acceptance of rectified defects

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 hoeing 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: At each scheduled maintenance visit

7. Watering: As required for healthy establishment, depending on weather conditions, and when instructed.

760 Planting maintenance – pruning

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

780 Maintenance instructions

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

790 Final mulching

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

Ω End of Section

Q35
Landscape maintenance

Summary

Revision history

Date	No.	Title	Status	Revision	Note
24/08/2023	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	DRAFT	P01	
02/10/2024	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	RIBA Stage 4	P02	

Generally

105 Maintenance objectives

1. Location: Hard and soft landscape areas within site boundary.
    1.1. Duration: Until the end of the rectification period, or as stated in the construction contract - whichever is longer.
2. Aims: Enhanced landscape quality
Improved landscape visual amenity
Provide wildlife habitat and increase biodiversity
3. Restrictions: Operatives to respect the privacy of adjacent residents and undertake operations in accordance with the requirements of the building operator.
4. Results: To achieve adequate establishment

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: Two days

130 Reinstatement

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

140 Control of mammalian pests

1. Specialist firms: Submit proposals
    1.1. Method: Submit proposals

155 Watering

1. Supply: Potable mains water
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: Remove to recycling facility
    1.5. Litter and nonbiodegradable arisings: Remove from site

181 Mechanical equipment

1. General: Minimize.
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 - Not Used

Flower beds/ seasonal beddings

460 Beds of perennials or perennials and annuals

1. Plant supports: Stake and tie plants using Bamboo canes.
    1.1. Length: To suit plant height
    1.2. Maintain throughout the growing season.
2. Gaps in planting: Refill by replanting.
3. Watering
    3.1. New plants: Before and after planting out.
    3.2. Ongoing: As necessary for the continued thriving of all planting.
4. Operations at end of growing season
    4.1. Trim: Older flowering stems of herbaceous perennials.
    4.2. Remove: Redundant plant supports, litter, debris and arisings.
    4.3. Cultivate: Fork over the soil, taking care not to cause undue disturbance to plants.
    4.4. Top dress: Apply Sanitized and stabilized compost top dressing.

470 Flower beds generally

1. Operations
    1.1. Remove: Dead flower heads, fallen leaves, litter and debris.
    1.2. Weeds: Thoroughly hand-weed.
    1.3. Cultivate: Lightly hoe.
    1.4. Trim: Clip grass edges.
2. Fungicide: Contractor's choice
3. Insecticide: Contractor's choice

490 Thinning by removal of surplus plants

1. Plants to be thinned: Submit proposals
2. Standard: BS 7370-4, clause 3.5.17.1.

3. Timing: Thin when foliage of adjacent plants has begun to touch.
4. Roots
    4.1. Disturbance to adjacent plants: Minimize.
    4.2. Soil: Refill holes with topsoil to leave an even-graded surface.
    4.3. Mulch: Maintain mulch as original specification.
5. Adjacent plants: Make good any minor damage immediately.
6. Plants for retention: Select plants with a strong healthy habit.

Shrubs/ trees/ hedges

500 Establishment of new planting

1. Duration: In accordance with the construction contract
2. Weed control
    2.1. Method: Keep planting beds clear of weeds by Hoeing and screefing and 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: As required to ensure the successful establishment and survival of the plants

502 Establishment of new planting – fertilizer

1. Time of year: March or April.
2. Type: Slow-release
3. Spreading: Spread evenly.
    3.1. Application rate: As manufacturer's recommendations

515 Tree guy wires

1. Inspection/ maintenance times: Immediately after strong winds and in spring
2. Operations
    2.1. Replace or resecure loose or missing guy wires.
    2.2. Adjust to suit stem growth and to provide correct and uniform tension.
3. Removal: Two years after planting

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.

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: Growth retardents not permitted

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

575 Pruning ornamental shrubs

1. General: Prune to encourage healthy and bushy growth and desirable ornamental features, e.g. flowers, fruit, autumn colour, stem colour.
2. Suckers: Remove by cutting back level with the source stem or root.

580 Pruning flowering species of shrubs and roses

1. Time of year

1.1. Winter flowering shrubs: Spring.

1.2. Shrubs flowering between March and July: Immediately after the flowering period.

1.3. Shrubs flowering between July and October: Back to old wood in winter.

1.4. Rose bushes: Early spring to encourage basal growths and a balanced, compact habit.

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.

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.

625 Climbing plants

1. Pruning: Remove excess growth, to ensure that signs, light fittings, doors and windows are kept clear at all times.
2. Insecure growth: Attach to supporting wires or structures using Stainless steel wire.
3. Supporting structures: Check and repair as necessary.

630 Dead and diseased plants

1. Removal: As soon as possible
2. Replacement: In the next suitable planting season or as instructed

635 Reinstatement of shrub/ herbaceous areas

1. Dead and damaged plants: Remove.
2. Mulch/ matting materials
   2.1. Carefully move to one side and dig over the soil, leaving it fit for replanting.
3. Do not disturb roots of adjacent plants.
4. Replacement plants
   4.1. Use pits and plants: To original specification or to match the size of adjacent or nearby plants of the same species, whichever is the greater.
   4.2. Additional requirements: Submit proposals
5. Dressing: Slow-release fertilizer:
   5.1. Type: Submit proposals
   5.2. Application rate: As manufacturer's recommendations

645 Weed control generally

1. Weed tolerance: At all times, weed cover less than 5% and no weed to exceed 100 mm high
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: Reinstate to original depth.

657 Herbicide to kill regrowth

1. Type: Suitable foliar-acting herbicide to kill regrowth.
2. Timing: Allow recommended period for herbicide to take effect before clearing dead weeds.

680 Soil aeration

1. Compacted soil surfaces
    1.1. Prick up: To aerate the soil of root areas and break surface crust.
    1.2. Size of lumps: Reduce to crumb and level off.
    1.3. Damage: Do not damage plants and their roots.

685 Soil level adjustment

1. Level of soil/mulch at edges of beds: Reduce to 50 mm below adjacent grass or hard surface.
    1.1. Arisings (if any): Spread evenly over the bed.

690 Maintenance of loose mulch

1. Thickness (minimum): 75 mm
    1.1. Top up: Every six weeks
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.

695 Fertilizing established trees and shrubs

1. Time of year: During April or May
2. Type of fertilizer: Slow-release
3. Application: Spread evenly.
    3.1. Rate: As manufacturer's recommendations

700 Snow removal from shrubs/ trees

1. Standard: To BS 7370-4.
2. Plants subject to snow removal: All evergreens
3. Timing: Within 24 hours of snowfall

705 Winter leaf removal

1. Operations: Take down temporary leaf fences. Collect accumulations of drifted leaves from the vicinity and from planting beds.
2. Arisings: Remove to recycling facility

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 Cleaning out and deadwooding

1. Remove
    1.1. Dead, dying or diseased wood, broken branches and stubs.
    1.2. Fungal growths and fruiting bodies.
    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 with prior approval
    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: Only if instructed and recommended by a suitably qualified arboriculturalist. Submit proposals for all proposed work clearly stating the reason and method statement.

845 Crown lifting

1. Clearances: Remove branch systems to give clearance.
    1.1. Height: 2.5 m above footpaths
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 Crown thinning

1. Removing branches: Remove inward-growing, crossing, rubbing, dead and damaged branches.
2. Thinning: Selectively remove secondary and small live branch growth evenly throughout the crown.
    2.1. Quantity: Submit proposals
3. Cutting: Make no cuts of more than 25 mm diameter.
    3.1. Branches: Cut back to lateral or sublateral buds or branches without leaving stumps.
4. Appearance: Leave a uniform and well-balanced structure of branches and foliage.

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.

Water areas - Not Used

Hard landscape areas/ fencing

900 Snow clearance

1. Clearance: When instructed
2. De-icing: To roads car park and footpaths
    2.1. Material: Submit proposals
    2.2. Timing: When instructed
    2.3. Application rate: Spread evenly at a rate of As manufacturer's recommendations.

910 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.
3. Surface gutters and channels: Remove mud, silt and debris.
4. Drainage gullies: Empty traps and flush clean.
5. Gravel areas: Rake over. Remove weeds, litter, leaves and debris, and level off.

6. Repairs to flexible bituminous pavings: In accordance with the original paving specification or BS 7370-2, clause 4.12.
7. Stain removal: In accordance with BS 7370-2, Table 4.

920 Fencing

1. Fences: Inspect and repair to maintain protection against Intruders.

930 Graffiti removal

1. Method: Submit proposals
2. Subsequent treatment: Not required

Ω End of Section

Q50
Site/ street furniture/ equipment

Summary

Revision history

Date	No.	Title	Status	Revision	Note
24/08/2023	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	DRAFT	P01	
02/10/2024	CMIQ-ONE-ZZ-XX-SP-L-0001	CMIQ (HUB) Landscape Specification	RIBA Stage 4	P02	

Gates, barriers and parking controls

190 Bollards - Accessible Parking Bay Markers

1. Description: TO THE ENDS OF EACH ACCESSIBLE PARKING BAY
2. Manufacturer: Submit proposals
   2.1. Product reference: Submit proposals
3. Material: Steel
   3.1. Finish as delivered: Hot-dip galvanized to BS EN ISO 1461 Polyester powder-coated, as section Z31
   3.2. Colour: To be confirmed
4. Height above ground: 1100mm
5. Sectional size: 76mm dia.
6. Top: Flat
7. Special features: Signage panel to incorporate accessible parking bay sign
   7.1. Parking Sign Supplier: Stocksigns or similar approved www.stocksigns.co.uk
   7.2. Product code: SKU 57945KM
   7.3. Fixing to bollard: To manufacturers recommendations
8. Method of fixing: Root fixed. Refer to engineer's details and specification for concrete foundation

192 Bollards

1. Description: BOLLARDS TO BUILDING EDGE
2. Manufacturer: Broxap or similar approved
   2.1. Product reference: Flat Top Sheffield
3. Material: Stainless Steel
   3.1. Finish as delivered: 316 Grade
   3.2. Colour: None
4. Height above ground: 1000mm
5. Sectional size: Standard
6. Special features: 2 x 50mm recess
7. Method of fixing: To Engineers Detail

Site and street furniture

210 Cycle stands

1. Manufacturer: Broxap Ltd or similar approved
   1.1. Product reference: Harrogate cycle stand with 100mm submerged base plates
2. Type: Single stands
3. Material: Stainless Steel
   3.1. Finish: Brushed
   3.2. Colour: None
4. Accessories: None
5. Method of fixing: Base plate fixed - refer to drawings

212 Cycle Shelter

1. Description: EXTERNAL SHELTER

2. Manufacturer: Broxap
www.broxap.com
   2.1. Product reference: Apollo Cycle Shelter
3. Material: Structure: Tubular hot dipped galvanised steel to BS EN ISO 1461:2009
Roof panels: 4mm ClearView PETg UV roof cladding
   3.1. Finish: As manufactured
   3.2. Colour: To be confirmed
4. Dimensions: Length: 8700mm
Width: 2753mm
Height: 2860mm
5. Accessories: None
6. Method of fixing: Submerged baseplates bolted to concrete foundation. Foundation to engineers dimensions and specification.

220 Seats and benches

1. Description: TIMBER SEATS AND BENCHES
2. Manufacturer: Streetlife
www.streetlife.nl
   2.1. Product reference: Rough & Ready Curved Bench - Bespoke
3. Material: Steel frame with timber slats
   3.1. Finish: Frame: Hot dipped galvanised steel to BS EN ISO 1461:2009 & Polyester powder-coated, as section Z31.
Slats: FSC certified hardwood
   3.2. Colour: To be confirmed
4. Size: Refer to drawings
5. Accessories/ Special requirements: Low back rest and arm rests as per drawings
6. Method of fixing: Steel supports bolted through paving to submerged foundations. Foundations to engineers dimensions and specification

Installation

510 Concrete foundations generally

1. Standard: To BS 8500-2.
2. Concrete: Refer to engineers specification
3. Admixtures: Do not use.
4. Foundation holes: Neat vertical sides.
5. Depth of foundations, bedding, haunching: Appropriate to provide adequate support and to receive overlying soft landscape or paving finishes.

515 Setting components in concrete

1. Holes: Refer to engineers details and specification for foundation dimensions.
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.

545 Erection of timber and prefabricated structures

1. Checking: 5 days (minimum) before proposed erection date, check foundations, holding down bolts, etc.
2. Inaccuracies or defects in prepared bases or supplied structures: Report immediately. Obtain instructions before proceeding.

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.

Ω End of Section

Specification created using NBS Chorus