

Proffitts - Investing In Communities

Rossendale Borough Council

Fairview Recreation Ground

Fairview Rec Specification

06-08-2024

Recreation ground and play area in Rawtenstall

Contents

| | |
|--|----|
| C20 Demolition | 1 |
| E10 Mixing/casting/curing in situ concrete | 2 |
| M60 Painting/clear finishing | 5 |
| N91 External signage and interpretation | 8 |
| Q10 Kerbs/ edgings/ channels/ paving accessories | 10 |
| Q20 Granular sub-bases to roads/ pavings | 11 |
| Q23 Gravel/ hoggin/ woodchip/ resin bound roads/ pavings/ overlays | 13 |
| Q26 Special surfacings/ pavings for sport/ general amenity | 15 |
| Q28 Topsoil and soil ameliorants | 17 |
| Q30 Seeding/ turfing | 20 |
| Q31 External planting | 23 |
| Q41 Barriers/ guardrails | 26 |
| Q50 Site/ street furniture/ equipment | 27 |
| Q52 Play and sports equipment | 29 |

C20 Demolition

General requirements

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: Break out in locations and to the extents stated.

150 Features to be retained

1. General: Keep in place and protect the following: existing play equipment to remain; fencing and furniture .

Services affected by deconstruction and demolition - Not Used

Deconstruction and demolition work

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.

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

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.

Ω End of Section

E10

Mixing/casting/curing in situ concrete

Concrete

110 Basic designated concrete

1. Designation: GEN1
2. Coarse recycled aggregates: As permitted by BS 8500-1
3. Consistence class: S3
4. Additional requirements: Submit proposals.

Materials, batching and mixing

215 Ready-mixed concrete

1. Production plant: Currently certified by a body accredited by UKAS to BS EN ISO/IEC 17065 for product conformity certification of ready-mixed concrete.
2. Source of ready-mixed concrete: Obtain from one source if possible . Otherwise, submit proposals.
 - 2.1. Name and address of depot: Submit before any concrete is delivered.
 - 2.2. Delivery notes: Retain for inspection.
3. Declarations of nonconformity from concrete producer: Notify immediately.

230 Interruption of supply during concreting

1. Elements without joints: Where elements are detailed to be cast in a single pour without joints, make prior arrangements for a back-up supply of concrete.
2. Elsewhere
 - 2.1. Preparation: Manage pour to have a full face, and have materials available to form an emergency construction joint while concrete can still be worked.
 - 2.2. Before pour is completed: Submit location and details of joint, make proposals for joint preparation.

Project testing/ certification - Not Used

Placing/ compacting/ curing and protecting

648 Adverse temperature conditions

1. Requirement: Submit proposals for protecting concrete when predicted ambient temperatures indicate risk of concrete freezing or overheating.

650 Surfaces to receive concrete

1. Cleanliness of surfaces immediately before placing concrete: Clean with no debris, tying wire clippings, fastenings or free water.

680 Placing

1. Records: Maintain for time, date and location of all pours.
2. Timing: Place as soon as practicable after mixing and while sufficiently plastic for full compaction.
3. Temperature limitations for concrete: 30°C (maximum) and 5°C (minimum), unless otherwise specified. Do not place against frozen or frost covered surfaces.
4. Continuity of pours: Place in final position in one continuous operation up to construction joints. Avoid formation of cold joints.

5. **Discharging concrete:** Prevent uneven dispersal, segregation or loss of ingredients or any adverse effect on the formwork or formed finishes.
6. **Thickness of layers:** To suit methods of compaction and achieve efficient amalgamation during compaction.
7. **Poker vibrators:** Do not use to make concrete flow horizontally into position, except where necessary to achieve full compaction under void formers and cast-in accessories and at vertical joints.

690 Compacting

1. **General:** Fully compact concrete to full depth to remove entrapped air. Continue until air bubbles cease to appear on the top surface.
 - 1.1. **Areas for particular attention:** Around reinforcement, under void formers, cast-in accessories, into corners of formwork and at joints.
2. **Consecutive batches of concrete:** Amalgamate without damaging adjacent partly hardened concrete.
3. **Methods of compaction:** To suit consistence class and use of concrete.

810 Curing generally

1. **Requirement:** Keep surface layers of concrete moist throughout curing period, including perimeters and abutments, by either restricting evaporation or continuously wetting surfaces of concrete.
 - 1.1. **Surfaces covered by formwork:** Retain formwork in position and, where necessary to satisfy curing period, cover surfaces immediately after striking.
 - 1.2. **Top surfaces:** Cover immediately after placing and compacting. If covering is removed for finishing operations, replace it immediately afterwards.
2. **Surface temperature:** Maintain above 5°C throughout the specified curing period or four days, whichever is longer.
3. **Records:** Maintain details of location and timing of casting of individual batches, removal of formwork and removal of coverings. Keep records on site, available for inspection.

811 Coverings for curing

1. **Sheet coverings:** Suitable impervious material.
2. **Curing compounds:** Selection criteria:
 - 2.1. **Curing efficiency:** Not less than 75% or for surfaces exposed to abrasion 90%.
 - 2.2. **Colouring:** Fugitive dye.
 - 2.3. **Application to concrete exposed in the finished work:** Readily removable without disfiguring the surface.
 - 2.4. **Application to concrete to receive bonded construction/ finish:** No impediment to subsequent bonding.
3. **Interim covering to top surfaces of concrete:** Until surfaces are in a suitable state to receive coverings in direct contact, cover with impervious sheeting held clear of the surface and sealed against draughts at perimeters and junctions.

840 Protection

1. **Prevent damage to concrete, including**
 - 1.1. **Surfaces generally:** From rain, indentation and other physical damage.
 - 1.2. **Surfaces to exposed visual concrete:** From dirt, staining, rust marks and other disfiguration.
 - 1.3. **Immature concrete:** From thermal shock, physical shock, overloading, movement and vibration.
 - 1.4. **In cold weather:** From entrapment and freezing expansion of water in pockets, etc.

Ω End of Section

M60

Painting/clear finishing

Coating systems

130 Gloss paint

1. Description: to metalwork
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Submit proposals
3. Surfaces: Preprimed and sealed and previously painted
 - 3.1. Preparation: Remove all loose and defective coatings; Degrease and provide key
4. Initial coats: As recommended by manufacturer
 - 4.1. Number of coats: as recommended by manufacturer
5. Undercoats: As recommended by manufacturer
 - 5.1. Number of coats: As recommended by manufacturer
6. Finishing coats: As recommended by manufacturer
 - 6.1. Number of coats: As recommended by manufacturer

Generally

215 Handling and storage

1. Coating materials: Deliver in sealed containers, labelled clearly with brand name, type of material and manufacturer's batch number.
2. Materials from more than one batch: Store separately. Allocate to distinct parts or areas of the work.

220 Compatibility

1. Coating materials selected by contractor
 - 1.1. Recommended by their manufacturers for the particular surface and conditions of exposure.
 - 1.2. Compatible with each other.
 - 1.3. Compatible with and not inhibiting performance of preservative/fire-retardant pretreatments.

240 Surfaces not to be coated

1. any paintwork on play equipment in good condition.

250 Surfaces to be cleaned but not coated

1. railings and sections of play equipment in good condition.

280 Protection

1. 'Wet paint' signs and barriers: Provide where necessary to protect other operatives and general public, and to prevent damage to freshly applied coatings.

Preparation

400 Preparation generally

1. Standard: In accordance with BS 6150.
2. Refer to any pre-existing CDM Health and Safety File.

3. Refer to CDM Construction Phase Plan where applicable.
4. **Suspected existing hazardous materials:** Prepare risk assessments and method statements covering operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.
5. **Preparation materials:** Types recommended by their manufacturers and the coating manufacturer for the situation and surfaces being prepared.
6. **Substrates:** Sufficiently dry in depth to suit coating.
7. **Efflorescence salts:** Remove.
8. **Dirt, grease and oil:** Remove. Give notice if contamination of surfaces/ substrates has occurred.
9. **Surface irregularities:** Remove.
10. **Joints, cracks, holes and other depressions:** Fill flush with surface, to provide smooth finish.
11. **Dust, particles and residues from preparation:** Remove and dispose of safely.
12. **Water based stoppers and fillers**
 - 12.1. Apply before priming unless recommended otherwise by manufacturer.
 - 12.2. If applied after priming: Patch prime.
13. **Oil based stoppers and fillers:** Apply after priming.
14. **Doors, opening windows and other moving parts**
 - 14.1. Ease, if necessary, before coating.
 - 14.2. Prime resulting bare areas.

420 Fixtures and fittings

1. **Removal:** Before commencing work remove: hinges and moving parts.
2. **Replacement:** Refurbish as necessary, refit when coating is dry.

425 Ironmongery

1. **Removal:** Before commencing work: Remove ironmongery from surfaces to be coated.
2. **Hinges:** remove and repair/oil ready for reuse
3. **Replacement:** Refurbishment as necessary; refit when coating is dry.

430 Existing ironmongery

1. **Refurbishment:** Remove old coating marks. Clean and polish.

440 Previously coated surfaces generally

1. **Preparation:** In accordance with BS 6150, clause 11.5.
2. **Contaminated or hazardous surfaces:** Give notice of:
 - 2.1. Coatings suspected of containing lead.
 - 2.2. Substrates suspected of containing asbestos or other hazardous materials.
 - 2.3. Significant rot, corrosion or other degradation of substrates.
3. **Suspected existing hazardous materials:** Prepare risk assessments and method statements covering operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.
4. **Removing coatings:** Do not damage substrate and adjacent surfaces or adversely affect subsequent coatings.
5. **Loose, flaking or otherwise defective areas:** Carefully remove to a firm edge.
6. **Alkali affected coatings:** Completely remove.
7. **Retained coatings**
 - 7.1. Thoroughly clean to remove dirt, grease and contaminants.

- 7.2. Gloss-coated surfaces: Provide key.
- 8. Partly removed coatings
 - 8.1. Additional preparatory coats: Apply to restore original coating thicknesses.
 - 8.2. Junctions: Provide flush surface.
- 9. Completely stripped surfaces: Prepare as for uncoated surfaces.

490 Previously coated steel

- 1. Defective paintwork: Remove to leave a firm edge and clean bright metal.
- 2. Sound paintwork: Provide key for subsequent coats.
- 3. Corrosion and loose scale: Take back to bare metal.
- 4. Residual rust: Treat with a proprietary removal solution.
- 5. Bare metal: Apply primer as soon as possible.
- 6. Remaining areas: Degrease.

500 Preprimed steel

- 1. Areas of defective primer, corrosion and loose scale: Take back to bare metal. Reprime as soon as possible.

622 Organic growths

- 1. Dead and loose growths and infected coatings: Scrape off and remove from site.
- 2. Treatment biocide: Apply appropriate solution to growth areas and surrounding surfaces.
- 3. Residual effect biocide: Apply appropriate solution to inhibit re-establishment of growths.

Application

711 Coating generally

- 1. Application standard: In accordance with BS 6150, clause 9.
- 2. Conditions: Maintain suitable temperature, humidity and air quality during application and drying.
- 3. Surfaces: Clean and dry at time of application.
- 4. Thinning and intermixing of coatings: Not permitted unless recommended by manufacturer.
- 5. Overpainting: Do not paint over intumescent strips or silicone mastics.
- 6. Priming coats
 - 6.1. Thickness: To suit surface porosity.
 - 6.2. Application: As soon as possible on same day as preparation is completed.
- 7. Finish
 - 7.1. Even, smooth and of uniform colour.
 - 7.2. Free from brush marks, sags, runs and other defects.
 - 7.3. Cut in neatly.
- 8. Doors, opening windows and other moving parts: Ease before coating and between coats.

Ω End of Section

N91

External signage and interpretation

Signage outline - Not Used

System performance

210 External signage generally

1. Signage systems generally: Complete to BS 559, including components, inserts, accessories and fixings necessary to complete the system.
2. External signage: To BS 559, clause 6.1.
3. Content: Signs including facing information, components, inserts, accessories and fixings necessary to complete the system.
4. Wind loads: To BS EN 1991-1-4.

Products

310 Posts for external signs

1. Description: for play area signage
2. Material: stainless steel
3. Size: 76mm dia at 3600mm long
4. Finish: as manufactured
5. Colour: silver
6. Base: None
7. Method of setting post to ground or base: Root fix into concrete

Materials

410 Aluminium

1. Description: play area signage
2. Standards: To relevant parts of BS EN 515 and BS EN 12020-2.
 - 2.1. Mechanical properties of extruded rod/ bar, tube and profiles: To BS EN 755-2.
 - 2.2. Tolerances on dimensions and form of seamless tubes: To BS EN 755-7.
 - 2.3. Profiles, tolerances on dimensions and form: To BS EN 755-9.
 - 2.4. Structural members: In accordance with BS EN 1999-1-1.
 - 2.5. Aluminium sheet: To BS EN 573-3.
3. Alloy, temper and thickness: Suitable for the application and specified finish.
4. Component thickness: 6 mm, 2 mm facing on 4 mm backing panel
5. Perimeters: Manufacturer's standard
6. Finish: Manufacturer's standard

Fabrication - Not Used

Execution/ erection/ installation

605 Method of fixing signs

1. Description: all signage
2. Method of fixing: to stainless steel posts

Completion - Not Used

Ω End of Section

Q10

Kerbs/ edgings/ channels/ paving accessories

Types of kerbs/edgings and channels

112 Precast concrete

1. Description: EDGINGS EDGINGS
2. Standard: To BS EN 1340.
3. Recycled content: Contractor's choice
4. Designations: EF Edging, flat top
5. Size (width x height x length): 50 x 250 x 915 mm
6. Special shapes: none
7. Finish: As cast
8. Colour: Grey
9. Bedding: Fresh concrete races
10. Joints generally: Dry, 2-3 mm gap
11. Sealant movement joints: Not required

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.

520 Adverse weather

1. Conditions: Do not construct if the temperature is below 3°C on a falling thermometer or 1°C on a rising thermometer. Adequately protect foundations, bedding and haunching against frost and rapid drying by sun and wind.

530 Concrete for foundations, races and haunching

1. Standard: To BS 8500-2.
2. Designated mix: Not less than GEN0 or Standard mix ST1.
3. Workability: Very low.

547 Bedding/ Backing of units on fresh concrete races

1. Standard: To BS 7533-6.

Ω End of Section

Q20

Granular sub-bases to roads/ pavings

To be read with preliminaries/ general conditions.

210 Highways agency Type 1 unbound mixture for sub-base

1. **Material:** Type 1 unbound mixture to Highways Agency 'Specification for highway works', clauses 801 and 803.
 - 1.1. **Recycled aggregate:** Permitted

211 Granular material

1. **Quality:** Of a known suitability for use in sub-bases, free from excessive dust, well graded, all pieces less than 75 mm in any direction, minimum 10% fines value of 50 kN when tested in a soaked condition to BS 812-111 or a resistance to fragmentation of LA50 for the Los Angeles test to BS EN 1097-2, and in any one layer only one of the following:
 - 1.1. Crushed rock (other than argillaceous rock) or quarry waste with not more binding material than is required to help hold the stone together.
 - 1.2. Crushed concrete, crushed brick or tile, free from plaster, timber and metal.
 - 1.3. Gravel or hoggin with not more clay content than is required to bind the material together, and with no large lumps of clay.
 - 1.4. Natural gravel.
 - 1.5. Natural sand.
2. **Filling:** Spread and levelled in 150 mm maximum layers, each layer thoroughly compacted.

230 Placing granular material generally

1. **Preparation:** Loose soil, rubbish and standing water removed.
2. **Structures, membranes and buried services:** Ensure stability and avoid damage.

250 Laying granular sub-bases

1. **Description:** FOR PEDESTRIAN AREAS AND PLAY AREAS
2. **General:** Spread and levelled.
3. **Compaction**
 - 3.1. **Timing:** As soon as possible after laying.
 - 3.2. **Method:** By roller or other suitable means, adequate to resist subsidence or deformation of the sub-base during construction and of the completed paving when in use. Take particular care to compact fully at intrusions, perimeters and where local excavation and backfilling has taken place.

310 Accuracy

1. **Permissible deviation from required levels, falls and cambers (maximum)**
 - 1.1. **Sub-bases**
 - 1.1.1. **Footways and recreation areas:** +10 -30 mm

315 Accuracy for sub-bases to sports surfacing

1. **Profile:** Lay sub-base to levels shown on drawings and with a Crossfall in a single plane .
2. **Maximum gradient in any direction:** 1:100
3. **Degree of evenness:** As specified by play manufacturer .
4. **Deviation from finished plane:** No additional requirement

5. **General accuracy:** Sufficient to ensure that the surface will not cause a hazard or a ball to deflect from its true path.

330 Cold weather working

1. **Frozen materials:** Do not use.
2. **Freezing conditions:** Do not place fill on frozen surfaces. Remove material affected by frost. Replace and recompact if not damaged after thawing.

340 Protection

1. **Sub-bases:** As soon as practicable, cover with subsequent layers, specified elsewhere.
2. **Subgrades and sub-bases:** Prevent degradation by construction traffic, construction operations and inclement weather.

Ω End of Section

Q23

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

Types of surfacing

130 Fine hoggin

1. Description: to paths
2. Granular sub-base: Type 1 unbound mixture, as section Q20
 - 2.1. Compacted thickness: as required to fill in hollows
3. Surface course: Naturally occurring fine hoggin consisting of sand and gravel, with minimum clay content required to bind the material together, and with no large lumps of clay.
 - 3.1. Size: Minimum of 85% by weight passing a 10 mm BS sieve.
 - 3.2. Maximum particle size: 20mm
 - 3.3. Compacted thickness: 60mm
4. Completion: Compact to produce a firm, regular surface, stable in use.

190 Bonded chippings for pedestrian areas

1. Description: to make good surfacing beneath seating
2. Manufacturer: Contractor's choice
3. Surface course
 - 3.1. Binder: Cold bitumen emulsion to [BS 434-1](#), class A1 60.
 - 3.2. Chippings: To [BS EN 13043](#), nominal size 6 mm.
 - 3.2.1. Colour: Brittany Bronze
 - 3.3. Application: Uniformly spray binder at a rate of 2 L/m². Cover with clean chippings. Provide 100-105% shoulder to shoulder coverage to [BS 598-1](#) and compact.
4. 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. Do not crush chippings.
5. Completion: Before trafficking, remove excess chippings.

Laying

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.

Completion - Not Used

Ω End of Section

Q26

Special surfacings/ pavings for sport/ general amenity

Sports surfacing

150 Suitability of base/ sub-base

1. Preparation: Before starting work ensure the following:
 - 1.1. Accuracy: Base/ sub-base will permit specified flatness/ regularity of finished surfacing.
 - 1.2. Falls/ camber: Accurately incorporated in the base/ sub-base.

210 Filled synthetic sports turf surfacing

1. Base: compacted mot type 1 on a geotextile membrane
 - 1.1. Thickness: 100mm
2. Shock absorbing system: As recommended by the surfacing manufacturer
 - 2.1. Thickness: as required to meet the specifications for each play unit
3. Wearing surface: sand filled carpet
 - 3.1. Manufacturer: Contractor's choice
 - 3.1.1. Product reference: Submit proposals
 - 3.2. Ignitability: The surface, when tested to BS 4790, must not be ignited or damaged enough to cause a ball to deviate from its true path.
 - 3.3. Pile depth: The mean pile height measured before any sand infill must not vary by more than $\pm 15\%$ of the mean height, as determined in accordance with BS 4051.
 - 3.4. Pile density: Uniform.
 - 3.5. Jointing: As manufacturer's recommendations
 - 3.6. Fill material: Single sized, clean quartz sand
 - 3.6.1. Thickness: as manufacturers standard

230 In situ polymeric surfacing

1. Base: mot type 1, well compacted on geotextile membrane
 - 1.1. Thickness: 100mm
2. Wearing surface: Polyurethane bound rubber bark
 - 2.1. Manufacturer: Submit proposals
 - 2.1.1. Product reference: Submit proposals
 - 2.2. Colour: green/brown
 - 2.3. Texture: Textured
 - 2.4. Thickness: as required to meet the fall heights of the equipment
 - 2.5. Ignitability: The surface, when tested to BS 4790, must not be ignited or damaged enough to cause a ball to deviate from its true path.
 - 2.6. Uniformity:
 - 2.7. Ridges, hollows, bumps and textural variations which might cause a ball to be deflected from its true path: Not permitted.
 - 2.7.1. Joints: Must not significantly affect the playing performance.

Impact attenuating surfacings for play areas

300 Extent of impact attenuating surfacing

1. General: Lay to the impact areas shown in the relevant parts of BS EN 1176.

Associated accessories - Not Used

Execution - Not Used

Completion - Not Used

Ω End of Section

Q28

Topsoil and soil ameliorants

System outline - Not Used

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 animal manures Composted bark Composted cocoa shell Composted coir fibre Composted food waste Composted green waste Spent mushroom compost Spent mushroom compost Treated bio sludge Wood waste
2. **Give notice:** before ordering or using.

310 Materials not permitted

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

Execution

680 Surplus topsoil to be retained

1. **Generally:** Spread and level on site:
 - 1.1. **Locations:** to be agreed on site with CA
 - 1.2. **Protected areas:** Do not raise soil level within root spread of trees that are to be retained.

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: GRASSED 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: 100 mm
- 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 FOR TURFING
- 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: 100 mm
- 5. Particle size (maximum): 10 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 paving or kerbs 50 mm above adjoining lawns
- 10. Undesirable material brought to the surface
 - 10.1. Remove visible weeds.
 - 10.2. Remove roots and large stones with any dimension exceeding 40 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 adjacent grass areas: level / flush
- 3. Seeded areas: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.
- 4. Sportsfields: To even levels and within the following permitted deviations:
 - 4.1. From levels or gradients shown on drawings: ± 75 mm.
 - 4.2. From line between boning rods 30 m apart: ± 25 mm.
- 5. Within root spread of existing trees and shrubs to be retained: Do not dig or cultivate.
- 6. Adjoining soil areas: Marry in.

7. Thickness of turf or mulch: Included.

Completion - Not Used

Ω End of Section

Q30

Seeding/ turfing

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 working days

170 Setting out

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

Preparation - Not Used

Seeding

310 Grass seed

1. **Description:** FOR ALL GRASSED AREAS
2. **Mixture:** 35% Chewings fescue, 35% Slender red fescue, 20% Smooth stalked meadow grass, 10% Brown top bent
3. **Application rate:** 18–30 g/m²

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.

330 Sowing

1. General: Establish good seed contact with the root zone.
2. Method: Manually broadcast, raked and rolled
 - 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: August to October

Turfing

400 Cultivated turf

1. Description: FOR SPORTS FIELDS
2. Supplier: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Properties of soil used for turf production: Peat-free, well drained sandy loam

430 Turfing generally

1. Time of year: Autumn or early winter
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

510 Protective fencing

1. Fencing type: Chestnut pale fencing to BS 1722-4
 - 1.1. Height: 1.1 m

2. Erection: On completion of seeding/ turfing.
3. Removal: After grass is well established. Fencing will remain the property of the Contractor

Maintenance - Not Used

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 75 mm.
3. **Contamination:** Remove material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.
4. **Vegetation:** Clear scrub to ground level by flail mowing and remove arisings
5. **Large roots:** Grub up and dispose of without undue disturbance of soil and adjacent areas.
6. **Additional requirements:** none

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.

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: Two working days

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: 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.

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.

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 - Not Used

Planting shrubs/ herbaceous plants/ bulbs

400 Random plant layout

1. Description: TO BULB PLANTING
2. Spacing: Evenly, avoiding straight lines Random groups of 3-11 plants of the same species.
3. Density: At 5 plants per m²

405 Shrub planting pits

1. Timing: Excavate 1-2 days (maximum) before planting.
2. Sizes: 150 mm wider than roots when fully spread and 200 mm deep
3. Pit bottom improvement Not required.

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.

455 Planting wildflower plugs

1. Handling: Keep plants watered and in shade until planted. Do not allow to dry out.
2. Preparation: Remove brambles, coarse and invasive weeds from planting sites.
3. Planting in grass: Close mow to approximately 50 mm. Remove arisings.
4. Planting sites: agreed on site with CA
5. Planting: Into a hole to suit plug size and shape. Create a cleft at bottom of hole to improve rooting. Gently firm plant into hole.

Planting trees - Not Used

Woodland/ matrix/ buffer zone planting - Not Used

Protecting/ maintaining/ making good defects - Not Used

Ω End of Section

Q41 Barriers/ guardrails

Types of barriers/ guardrails

240 Handrail systems

1. Description: to new concrete steps
2. System manufacturer: Contractor's choice
3. Material: galvanised steel
 - 3.1. Cross-section: 50mm dia
 - 3.2. Finish: galvanised
4. Height above ground surface (to upper surface of handrail)
 - 4.1. Upper handrail: 950 mm

Performance/ inspection/ testing - Not Used

Installation

480 Concrete foundations for posts

1. Excavations: To have vertical sides. Dispose of all arisings. Blind excavation bottoms with a 50 mm layer of concrete.
2. Concrete mix: To BS 8500-2, Designated mix not less than GEN 4 or Standard mix not less than ST5. Do not use admixtures.
3. Placing concrete: Fill holes to the specified depth and fully compact. Do not backfill for at least four days.
4. Temporary support to posts: Provide for a at least four days after placing concrete.

490 Damage repair to galvanized surfaces

1. Areas of repair: Minor damage, including fixings and fittings.
 - 1.1. Total area of repair not to exceed 0.5% of total surface area.
 - 1.2. Each area not to exceed 1000 mm².
2. Renovation: Use low melting point zinc alloy repair rods or powders or at least two coats of zinc-rich paint to BS 4652.

Completion - Not Used

Ω End of Section

Q50

Site/ street furniture/ equipment

Gates, barriers and parking controls - Not Used

Site and street furniture

225 Seats

1. Description: to wider rec ground
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Submit proposals
3. Material: steel
 - 3.1. Finish: Hot-dip galvanized to BS EN ISO 1461 As manufactured
 - 3.2. Colour: Green RAL 6005
4. Size: 1800mm long
5. Method of fixing: secured to new concrete pads with bolts and resin

230 Tables

1. Manufacturer: Broxap
 - 1.1. Product reference: Cannock Chase
2. Material: Steel
 - 2.1. Finish: Hot-dip galvanized to BS EN ISO 1461 As manufactured
 - 2.2. Colour: Green RAL 6005
3. Size: 2440mm long
4. Accessories/ Special requirements: extended leaf
5. Method of fixing: secured to new concrete pads with bolts and resin

240 Litter bins

1. Description: around the rec ground
2. Manufacturer: Broxap
 - 2.1. Product reference: Maelor Trafflex 120l
3. Material: manufacturers standard
 - 3.1. Finish: manufacturers standard
 - 3.2. Colour: black
4. Accessories/ Special requirements: galvanised lockable liner
5. Method of fixing: manufacturers standard

Installation

510 Concrete foundations generally

1. Standard: To BS 8500-2.
2. Concrete: Standard prescribed, not less than ST2
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:** manufacturers standard
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.

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

Q52

Play and sports equipment

General - Not Used

System performance - Not Used

Products

400 Cableway

1. Description: to recreation ground
2. Standard: To BS EN 1176-1 and -4.
3. Manufacturer: Sutcliffe Play
 - 3.1. Product reference: CAR030R
4. Type: Seat
5. Materials: as manufactured
 - 5.1. Finish: Polyester powder coated
 - 5.2. Colour: Manufacturer's standard
6. Length: 30m
7. Deck height: Manufacturer's standard
8. Method of fixing: Manufacturer's standard

430 Spinning equipment

1. Description: cone climber spinner to existing play area
2. Standard: To BS EN 1176-1 and -5.
3. Manufacturer: Sutcliffe Play
 - 3.1. Product reference: Cone Climber 3000
4. Materials: As manufactured
5. Diameter: 2400mm
6. Method of fixing: as per recommendations

440 Swinging equipment

1. Description: to recreation ground
2. Standard: To BS EN 1176-1 and -2.
3. Manufacturer: Sutcliffe Play
 - 3.1. Product reference: SWN082Z
4. Frame: Traditional
 - 4.1. Bays: 1
 - 4.2. Materials: Galvanized steel
 - 4.3. Finish: Polyester powder coated
 - 4.4. Colour: Manufacturer's standard
 - 4.5. Height: 2.4 m
5. Seats: Flat
 - 5.1. Materials: Manufacturer's standard
 - 5.2. Ground clearance: Manufacturer's standard
6. Features: Anti-wrap chain

7. Method of fixing: Manufacturer's standard

Execution

710 Play equipment installation generally

1. Standard: To manufacturer's written instructions provided in accordance with BS EN 1176-1.

720 Concrete foundations generally

1. Standard: To BS 8500-2.
2. Concrete: Designated, not less than GEN 1 or Standard prescribed, not less than ST2.
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.

725 Setting components in concrete

1. Holes: as per recommendations
2. Components: Accurately positioned and securely supported.
3. Concrete fill: Fully compacted as filling proceeds.
4. Concrete foundations exposed to view: Finished to weathering profile to shed water and trowel smooth.
5. Temporary component support: Maintain undisturbed for minimum 48 hours.

750 Damage to galvanized surfaces

1. Minor damage in areas up to 40 mm² (including on fixings and fittings): Make good.
 - 1.1. Materials: 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.

Completion

910 Inspection

1. Standard: To BS EN 1176-1
2. Timing: before opening the site to the public
3. Period of notice (minimum): 3 working days.

920 Cleaning

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

930 Testing

1. Standard: To BS EN 1176-1.

940 Labels

1. Standard: To BS EN 1176-1
2. Labels: Provide permanent labelling on all types of play equipment.
3. Location: Where visible when erected on site.

950 Documentation

1. **Standard:** To BS EN 1176-1
2. **Contents**
 - 2.1. Copies of test reports.
 - 2.2. General product information.
 - 2.3. Installation information.
 - 2.4. Inspection and maintenance information.
3. **Number of copies:** 1
4. **Submission:** electronically as soon as available

Ω End of Section



Specification created using NBS Chorus