

South Gloucestershire Council Landscape

The Ridings

Specification

22-03-2022

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D20

Excavating and filling

Generally/the site

145 Variations in ground water level

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

150 Existing services, features and structures

1. Services: See section A12 for locations.
2. Site features to be retained: See section A12 for details.
3. Structures: See section A34 for details of protection.

Clearance/excavating

164 Tree roots

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

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: n/a

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 100 mm 150 mm.
 - 2.2. Give notice where the depth of topsoil is difficult to determine.
3. Handling: Handle topsoil for reuse or sale in accordance with clause 225.
4. Around trees: Do not remove topsoil from below the spread of trees to be retained.
5. Site storage: Keep separate from excavated sub-soil

265 Inspecting formations in sand and gravel

1. Notice for inspection (minimum):

2. **Preparation:** Just before inspection remove the last 150 mm of excavation. Trim to required profiles and levels and mechanically compact formation.
3. **Seal:** Within 4 hours of inspection, seal formations with

270 Foundations generally

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

290 Foundations in made up ground

1. **Depth:** Excavate down to a natural formation of undisturbed subsoil.
2. **Discrepancy:** Give notice if this is greater or less than depth given.

320 Recorded features

1. **Recorded foundations, beds, drains, manholes, etc.:** notify contract administrator
2. **Contaminated earth:** Remove and disinfect as required by Local Authority.

330 Unrecorded features

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

370 Underground structures in landscape areas

1. **Generally:** Remove walls, roads, foundations, disused services, drains, manholes and the like to minimum depth.
2. **Minimum depth below finished levels**
 - 2.1. Grass, ground cover and perennial planting: 500 mm
 - 2.2. Shrub planting: 750 mm.
 - 2.3. Within 2 m of tree planting: 1000 mm.
3. **Walls and slabs remaining:** In every 10 m² of wall or slab, make a drainage hole at least 600 mm diameter.

Disposal of materials

415 Excavated topsoil

1. **General:** Spread on site at agreed locations to make good as required

441 Surplus subsoil

1. **Excavated material:** Stockpile in temporary storage heaps.
2. **Retained material:** Spread and level surplus subsoil on site.
 - 2.1. **Locations:** as agreed
 - 2.2. **Protected areas:** Do not raise soil level within root spread of trees that are to be retained.
3. **Remaining material:** Remove from site.

450 Water

1. **Generally:** Keep all excavations free from water until:
 - 1.1. Formations are covered.
 - 1.2. Below ground constructions are completed.

- 1.3. Basement structures and retaining walls are able to resist leakage, water pressure and flotation.
2. **Drainage:** Form surfaces of excavations and fill to provide adequate falls.
3. **Removal of water:** Provide temporary drains, sumps and pumping as necessary. Do not pollute watercourses with silt laden water.

Filling

512 Limitation of sulfate content in fill materials

1. Test specification: To
2. Sulfate content: Expressed as
 - 2.1. Water soluble sulfate (maximum):
 - 2.2. Total potential sulfate (maximum):
 - 2.3. Oxidizable sulfides (maximum):
3. Certificates of test result: Submit.

610 Compacted filling for landscape areas

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

615 Loose tip filling for landscape areas

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

Bioremediation - Not Used

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

Ω End of Section

Q10

Kerbs/ edgings/ channels/ paving accessories

Types of kerbs/edgings and channels

110 Proprietary precast concrete

1. Description: EDGINGS
2. Standard: To BS EN 1340.
3. Manufacturer: Submit proposals
4. Product reference: Submit proposals
5. Recycled content: Submit proposals
6. Designations: EF Edging, flat top
7. Size (width x height x length): 50 x 150 x 915 mm
8. Special shapes: none
9. Finish: As cast
10. Colour: Grey
11. Bedding: As drawing SGSD/1100/02A EA1
12. Joints generally: Dry, 2-3 mm gap
13. Sealant movement joints: Not required
14. Accessories: None

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.

540 Cement mortar bedding

1. General: To section Z21.

2. Mix (Portland cement:sand): 1:3.
 - 2.1. Portland cement: Class CEM I 42.5 to BS EN 197-1.
 - 2.2. Sand: to BS EN 12620, grade 0/4 or 0/2 (MP).
3. Bed thickness: 12-40 mm.

547 Bedding/ Backing of units on fresh concrete races

1. Standard: To BS 7533-6.

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.

630 Narrow mortar joints

1. Jointing: Ends of units buttered with bedding mortar as laying proceeds. Joints completely filled, tightly butted and surplus mortar removed immediately.
 - 1.1. Joint width: 3 mm.

Ω End of Section

Q20

Granular sub-bases to roads/ pavings

To be read with preliminaries/ general conditions.

110 Thicknesses of sub-base/ subgrade improvement layers

1. Thicknesses: See sections:
 - 1.1. Q22 Coated macadam/asphalt roads/pavings and Q26 Special surfacings/pavings for sport/general amenity.

130 Herbicides

1. Type: Granular residual
2. Application: To subgrade of play area and footpath.

140 Excavation of subgrades

1. Final excavation to formation or subformation level: Carry out immediately before compaction of subgrade.
2. Soft spots and voids: Give notice.
3. Old drainage and service trenches: Give notice
4. Wet conditions: Do not excavate or compact when the subgrade may be damaged or destabilized.

145 Preparation and compaction of subgrades

1. Timing: Immediately before placing sub-base.
2. Soft or damaged areas: Give notice
3. Compaction: Thoroughly, by roller or other suitable means, adequate to resist subsidence or deformation of the subgrade during construction and of the completed roads/ pavings when in use. Take particular care to compact fully at intrusions, perimeters and where local excavation and backfilling has taken place.

170 Geotextile filter/ separator membrane

1. Description: To sub-bases
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Jointing: 300 mm overlap
4. Protect from
 - 4.1. Exposure to light, except during laying (maximum five hours).
 - 4.2. Contaminants.
 - 4.3. Materials listed as potentially deleterious by geotextile manufacturer.
 - 4.4. Damage, until fully covered by fill.
 - 4.5. Wind uplift, by laying not more than 15 m before covering with fill.
5. Preparation: Remove humps and sharp projections and fill hollows before laying.

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
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. **Subgrades**
 - 1.1.1. Roads and parking areas: +20 -30 mm.
 - 1.1.2. Footways and recreation areas: \pm 20 mm.
 - 1.2. **Sub-bases**
 - 1.2.1. Roads and parking areas: n/a
 - 1.2.2. Footways and recreation areas: +5 -10 mm

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

Q22

Asphalt roads/ pavings

Types of paving

115 Asphalt concrete paving

1. Description: TO FOOTWAYS
2. Standard: To BS EN 13108-1
3. Subgrade improvement layer: Type 1 unbound mixture, as section Q20
 - 3.1. Compacted thickness: Submit proposals
4. Geotextile: Sheet
 - 4.1. Manufacturer: Submit proposals
 - 4.1.1. Product reference: Submit proposals
5. Granular sub-base: Type 1 unbound mixture, as section Q20
 - 5.1. Compacted thickness: 150mm
6. Binder course: AC 20 dense bin
 - 6.1. Paving grade: 40/60
 - 6.2. Compacted thickness: 50mm
7. Surface course: AC 6 dense surf
 - 7.1. Paving grade: 40/60
 - 7.2. Slip/ Skid resistance: no requirement
 - 7.3. Compacted thickness: 20 mm
8. Reclaimed content
 - 8.1. Standard: To BS EN 13108-8.
 - 8.2. Value (maximum): Submit proposals
9. Surface treatment: Not required
10. Other requirements: As drawings

Preparatory work/ requirements

240 Acceptance of surfaces

1. Surface: Sound, clean and suitably close textured.
2. Level tolerances: To BS 594987.
3. Kerbs and edgings: Complete, adequately bedded and haunched and to the required levels.

250 Abutments

1. Vertical edges of manholes, gullies, kerbs and other abutments: Clean and paint with a thin uniform coating of cold applied thixotropic bitumen emulsion.
2. Finishing: Tamp surface around projections.
 - 2.1. Level: Flush or not more than 3 mm above projections.

Laying

310 Laying generally

1. Preparation: Remove all loose material, rubbish and standing water.
2. Adjacent work: Form neat junctions. Do not damage.

3. Channels, kerbs, inspection covers etc: Keep clean.
4. New paving
 - 4.1. Keep traffic free until it has cooled to prevailing atmospheric temperature.
 - 4.2. Do not allow rollers to stand at any time.
 - 4.3. Prevent damage.
 - 4.4. Lines and levels: With regular falls to prevent ponding.
 - 4.5. Overall texture: Smooth, even and free from dragging, tearing or segregation.
 - 4.6. State on completion: Clean.

320 Adverse weather

1. Frozen materials: Do not use.
2. Suspend laying
 - 2.1. During freezing conditions
 - 2.2. If the air temperature reaches 0°C, or in calm dry conditions -3°C, on a falling thermometer.
 - 2.3. Hot rolled asphalt: During periods of continuous or heavy rain or if there is standing water on the base.

330 Levels

1. Permissible deviation from the required levels, falls and cambers (maximum): In accordance with BS 594987, clause 5.2.

340 Flatness/ Surface regularity

1. Deviation of surface: Where appropriate in relation to the geometry of the surface, the variation in gap under a 3 m straightedge placed anywhere on the surface to be not more than:
 - 1.1. Base:
 - 1.2. Binder course:
 - 1.3. Surface course:
 - 1.4. Where a straightedge cannot be used the surface must be of a comparable standard of accuracy when judged by eye.

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.

Impact attenuating surfacings for play areas

301 Extent of impact attenuating surfacing

1. General: Lay impact attenuating surfacing as indicated on drawings.

340 Rubber mat and tile surfacing

1. Sub-base:
 - 1.1. Thickness:
2. Base:
 - 2.1. Thickness:
3. Surface course: Impact attenuating EPDM rubber mats and/ or tiles.
 - 3.1. Standard: To BS 7188.
 - 3.2. Manufacturer:
 - 3.2.1. Product reference:
 - 3.3. Colour:
 - 3.4. Critical fall height when tested to BS EN 1177:
4. Submit
 - 4.1. Resistance to abrasive wear, slip resistance, resistance to indentation and ease of ignition: Evidence of testing to BS 7188.
 - 4.2. Critical fall height: Evidence of testing to BS EN 1177.

360 In situ synthetic surfacing

1. Sub-base: As section Q20
 - 1.1. Thickness: as required
2. Base: Submit proposals
 - 2.1. Thickness: 50 mm min.
3. Surface course: Wet pour, in situ laid polyurethane bound EPDM rubber crumb surface.
 - 3.1. Standard: To BS 7188.
 - 3.2. Manufacturer: Submit proposals
 - 3.2.1. Product reference: Submit proposals
 - 3.3. Colour: Brown / Green natural mix, to be confirmed
 - 3.4. Critical fall height when tested to BS EN 1177: Generally 1 m, may be greater under specific play equipment as required
 - 3.5. Health and safety
 - 3.5.1. Substance known to be toxic or carcinogenic on skin contact or released as vapour or dust during normal use: Not permitted.

4. Submit
 - 4.1. Resistance to abrasive wear, slip resistance, resistance to indentation and ease of ignition: Evidence of testing to BS 7188.
 - 4.2. Critical fall height: Evidence of testing to BS EN 1177.

Associated accessories

430 Edges

1. Finish: bonded rubber mulch
2. Edge detail: graded into and buried under grass

Execution - Not Used

Completion

920 Play surface testing

1. Standard: To BS EN 1177 and BS 7188, where applicable.
2. Testing body: A United Kingdom Accreditation Service (UKAS) independent laboratory.
3. Timing: Within ten days of completing the surfacing works.
4. Test results: Submit.

930 Documentation

1. Standard: To BS EN 1176-1.
2. Submission requirements
 - 2.1. Name and contact details of installer.
 - 2.2. Date of installation.
 - 2.3. Name and contact details of manufacturer.
 - 2.4. Type/ description/ reference of products used.
 - 2.5. Manufacturer's recommended inspection and maintenance procedures to maintain safety and impact attenuating performance.
3. Manufacturer's recommended cleaning and maintenance methods, where relevant.

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.

315 Imported topsoil to BS 3882

1. **Description:** Multipurpose
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.

Execution

660 Grading subsoil for:

1. **Description:** GRASSED 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.

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.

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.

718 Final cultivation

1. **Description:** FOR GRASS SEEDING OR TURF
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:** 75 mm
5. **Particle size (maximum):** 10 mm
6. **Timing:** Within a few days before planting
7. **Weather and ground conditions:** Suitably dry.
8. **Surface:** Leave regular and even.
9. **Undesirable material brought to the surface**
 - 9.1. Remove visible weeds.
 - 9.2. Remove roots and large stones with any dimension exceeding 30 mm.

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.

Preparation

250 Soil requirements

1. **Type**
 - 1.1. **Seeded areas:** Existing topsoil
 - 1.2. **Turfed areas:** Existing topsoil
 - 1.3. **Reinforced grass areas:** Existing topsoil

Seeding

311 Grass seed

1. **Description:** FOR ALL GRASSED AREAS
2. **Supplier:** Submit proposals
 - 2.1. **Mixture reference:** General amenity grass mix for shady areas
3. **Application rate:** 20-35 g/m²

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

335 Grass sowing season

1. **Grass seed generally:** April to October

Turfing

400 Cultivated turf

1. **Description:** FOR ALL GRASSED AREAS
2. **Supplier:** Submit proposals

- 2.1. Product reference: General amenity grass for shady areas
- 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:

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: topsoil
- 10. Watering: Thoroughly water completed turf immediately after laying. Check that water has penetrated into the soil below.

440 Turfing on banks exceeding 30° slope

- 1. Turf configuration: Diagonal or horizontal.
- 2. Securing turfs
 - 2.1. Fixings: Submit proposals
 - 2.2. Frequency of fixings: Every second row
- 3. Removal of fixings: When instructed. Make good any damage to grass until area is accepted

Protecting/cutting

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 - Not Used

Q50

Site/ street furniture/ equipment

Gates, barriers and parking controls - Not Used

Site and street furniture

220 Benches

1. Description: playground bench
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Size: 1.5 m long
4. Accessories/ Special requirements: None
5. Method of fixing: Benches fixed level

225 Seats

1. Description: Play ground seat
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Size: 1.5 m long
4. Accessories/ Special requirements: None
5. Method of fixing: Benches fixed level

240 Litter bins For Playground

1. Description: litter bin for play area
2. Manufacturer: Earth-anchor or similar approved
 - 2.1. Product reference: Sentinel 120 L or similar approved
3. Material: steel
 - 3.1. Finish: as manufactured
 - 3.2. Colour: green
4. Accessories/ Special requirements: pyramid top
5. Method of fixing: Rootfast anchor system

Installation

510 Concrete foundations generally

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

550 Damage to galvanized surfaces

1. Minor damage in areas up to 40 mm² (including on fixings and fittings): Make good.
 - 1.1. Material: Low melting point zinc alloy repair rods or powders made for this purpose or at least two coats of zinc-rich paint to BS 4652.

- 1.2. **Thickness:** Sufficient to provide a zinc coating at least equal to the original layer.

560 Site painting

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

Ω End of Section

Q52

Play and sports equipment

General

115 Playground

1. Description: Public play area
2. Equipment: as per tender drawings and priced documents
 - 2.1. System manufacturer: Submit design and cost proposals
3. Surfacing: Bonded rubber mulch as Q26
4. Containment: Not required
5. Accessories: as per contract drawings

System performance

210 Design

1. Design: Complete the design of the Playground.
2. Proposals: Submit drawings, technical information, calculations and manufacturers' literature.
3. Performance criteria: New surfaced and play area to include separate play items including some accessible for all abilities.

Products - Not Used

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.

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.

760 Site painting

1. Timing: Prepare surfaces and apply finishes as soon as possible after installing components.

Completion

910 Inspection

1. **Standard:** To BS EN 1176-1
2. **Timing:** 2 weeks prior to date when work is expected to be practically complete
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:** 2 weeks after request by contract administrator

970 Operating tools

1. **Tools:** Supply tools required for operation, maintenance and cleaning purposes.

Ω End of Section



Specification created using NBS Chorus