

Howard Lewis Playground

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D20 Excavating and filling

To be read with Preliminaries/General conditions

GENERALLY/THE SITE

145 VARIATIONS IN GROUND WATER LEVEL

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

150 EXISTING SERVICES, FEATURES AND STRUCTURES

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

CLEARANCE/EXCAVATING

164 TREE ROOTS

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

168 SITE CLEARANCE

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

170 REMOVING SMALL TREES, SHRUBS, HEDGES AND ROOTS

- Identification: Clearly mark trees to be removed.
- Small trees, shrubs and hedges: Cut down
- Roots: Grub up and dispose of without undue disturbance of soil and adjacent areas
- Safety: Comply with HSE/ Arboriculture and Forestry Advisory Group safety leaflets.

180 CHIPPING AND SHREDDING

- General: Permitted, remove arisings from site.

220 STRIPPING TOPSOIL

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

225 HANDLING TOPSOIL

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

250 PERMISSIBLE DEVIATIONS FROM FORMATION LEVELS

- Beneath mass concrete foundations: ± 25 mm.
- Beneath ground bearing slabs and r.c. foundations: ± 15 mm.
- Embankments and cuttings: ± 50 mm.
- Ground abutting external walls: ± 50 mm, but such as to ensure that finished level is not less than 150 mm below dpc.

270 FOUNDATIONS GENERALLY

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

330 UNRECORDED FEATURES

- 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

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

DISPOSAL OF MATERIALS

410 EXCAVATED TOPSOIL STORAGE

- Storage: Stockpile in temporary storage heaps tbc on site .

441 SURPLUS SUBSOIL

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

450 WATER

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

M60 Painting/clear finishing

18A SPECIAL COATING LEAD FREE METAL PAINT

- Manufacturer: GB Sport and leisure, sales@gbsportandleisure.co.uk.
 - Product reference: Paint.
- Surfaces: existing metal play equipment.
 - Preparation: Submit method statement.
- Undercoats: As recommended by manufacturer.
 - Number of coats: 1.
- Finishing coats: As recommended by manufacturer.
 - Number of coats: 1.

25 SURFACES NOT TO BE COATED

- Moving parts, slide surfaces etc. .

32 PREVIOUSLY COATED SURFACES GENERALLY

- Preparation: In accordance with BS 6150, clause 11.5.
- Contaminated or hazardous surfaces: Give notice of:
 - Coatings suspected of containing lead.
 - Substrates suspected of containing asbestos or other hazardous materials.
 - Significant rot, corrosion or other degradation of substrates.
- Risk assessment and method statement for hazardous materials: Prepare for operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.
- Removing coatings: Do not damage substrate and adjacent surfaces or adversely affect subsequent coatings.
- Loose, flaking or otherwise defective areas: Carefully remove to a firm edge.
- Alkali affected coatings: Completely remove.
- Retained coatings:
 - Thoroughly clean.
 - Gloss coated surfaces: Provide key.
- Partly removed coatings: Apply additional preparatory coats.
- Completely stripped surfaces: Prepare as for uncoated surfaces.

39 STEEL PREPARATION

- Corrosion and loose scale: Take back to bare metal.
- Residual rust: Treat with a proprietary removal solution.
- Bare metal: Apply primer as soon as possible.

61 COATING GENERALLY

- Application standard: In accordance with BS 6150, clause 9.
- Conditions: Maintain suitable temperature, humidity and air quality.
- Surfaces: Clean and dry at time of application.
- Thinning and intermixing: Not permitted unless recommended by manufacturer.
- Priming coats: Apply as soon as possible on same day as preparation is completed.
- Finish:
 - Even, smooth and of uniform colour.
 - Free from brush marks, sags, runs and other defects.
 - Cut in neatly.
- Doors, opening windows and other moving parts: Ease before coating and between coats.

Q20 Granular sub-bases to roads/pavings

To be read with Preliminaries/ General conditions.

110 THICKNESSES OF SUB-BASE/ SUBGRADE IMPROVEMENT LAYERS

- Thicknesses: See sections:
 - Q22 Coated macadam/asphalt roads/pavings.

130 HERBICIDES

- Type: Contact, non-selective.
- Application: To subgrade of footpath and wet pour surface areas.

140 EXCAVATION OF SUBGRADES

- Final excavation to formation or subformation level: Carry out immediately before compaction of subgrade.
- Soft spots and voids: Give notice.
- Old drainage and service trenches: Excavate to remove soft or damaged material, then backfill with specified granular sub-base material and compact..
- Wet conditions: Do not excavate or compact when the subgrade may be damaged or destabilized.

145 PREPARATION AND COMPACTION OF SUBGRADES

- Timing: Immediately before placing sub-base.
- Soft or damaged areas: Excavate and replace with sub-base material, compacted in layers 300 mm (maximum) thick.
- 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 BELOW SUB-BASE

- Manufacturer: Contractor's choice .
 - Product reference: Contractor's choice .
- Jointing: 300 mm overlap .
- Protect from:
 - Exposure to light, except during laying (maximum five hours).
 - Contaminants.
 - Materials listed as potentially deleterious by geotextile manufacturer.
 - Damage, until fully covered by fill.
 - Wind uplift, by laying not more than 15 m before covering with fill.
- Preparation: Remove humps and sharp projections and fill hollows before laying.

210 HIGHWAYS AGENCY TYPE 1 UNBOUND MIXTURE FOR SUB-BASE

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

230 PLACING GRANULAR MATERIAL GENERALLY

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

250 LAYING GRANULAR SUB-BASES FOR PEDESTRIAN AREAS

- General: Spread and levelled.
- Compaction:
 - Timing: As soon as possible after laying.
 - 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

- Permissible deviation from required levels, falls and cambers (maximum):
 - Subgrades:
 - Roads and parking areas: +20 -30 mm.
 - Footways and recreation areas: ± 20 mm.
 - Sub-bases:
 - Roads and parking areas: na.
 - Footways and recreation areas: +10 -30 mm.

330 COLD WEATHER WORKING

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

340 PROTECTION

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

Q22 Asphalt roads/ pavings

To be read with Preliminaries/ General conditions.

TYPES OF PAVING

115 ASPHALT CONCRETE PAVING TO FOOTWAYS

- Standard: To BS EN 13108-1.
- Subgrade improvement layer: Not required.
 - Compacted thickness: Not applicable.
- Geotextile: Sheet.
 - Manufacturer: Contractor's choice.
 - Product reference: Submit proposals.
- Granular sub-base: Highways Agency Type 1 unbound mixture, as section Q20.
 - Compacted thickness: 150 mm.
- Binder course: AC 20 dense bin.
 - Paving grade: 40/60.
 - Compacted thickness: 50mm.
- Surface course: AC 6 med surf.
 - Paving grade: 40/60.
 - Slip/ Skid resistance: No requirement.
 - Compacted thickness: 20 mm.
- Reclaimed content:
 - Standard: To BS EN 13108-8.
 - Value (maximum): Submit proposals.
- Surface treatment: Not required.
- Other requirements: n/a.

115B ASPHALT CONCRETE PAVING - NO DIG CONSTRUCTION TO FOOTWAYS

- Standard: To BS EN 13108-1.
- Subgrade improvement layer: Not required.
 - Compacted thickness: Not applicable.
- Geotextile: Cell Web Sheet.
 - Manufacturer: www.geosyn.co.uk.
 - Product reference: Cell Web TRP 75mm.
- Granular sub-base: Highways Agency Type 1 unbound mixture, as section Q20.
 - Compacted thickness: 75 mm.
- Binder course: AC 20 dense bin.
 - Paving grade: 40/60.
 - Compacted thickness: 50mm.
- Surface course: AC 6 med surf.
 - Paving grade: 40/60.
 - Slip/ Skid resistance: No requirement.
 - Compacted thickness: 20 mm.
- Reclaimed content:
 - Standard: To BS EN 13108-8.
 - Value (maximum): Submit proposals.
- Surface treatment: Not required.
- Other requirements: n/a.

210 TIMBER EDGING FOOTWAY

- Softwood board:
 - Size: 38 x 150 mm.
 - Fixing: Galvanized nails into softwood pegs.
- Softwood pegs:
 - Size: 50 x 50 x 450 mm long.
 - Fixing: Drive into ground.
 - Centres: 1200 mm .
- Preservative treatment: To provide a 15 year service life.
 - Type: Submit proposals.

240 ACCEPTANCE OF SURFACES

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

LAYING

310 LAYING GENERALLY

- Preparation: Remove all loose material, rubbish and standing water.
- Adjacent work: Form neat junctions. Do not damage.
- Channels, kerbs, inspection covers etc: Keep clean.
- New paving:
 - Keep traffic free until it has cooled to prevailing atmospheric temperature.
 - Do not allow rollers to stand at any time.
 - Prevent damage.
 - Lines and levels: With regular falls to prevent ponding.
 - Overall texture: Smooth, even and free from dragging, tearing or segregation.
 - State on completion: Clean.

320 ADVERSE WEATHER

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

330 LEVELS

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

340 FLATNESS/ SURFACE REGULARITY

- 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:
 - Base: Hand laid, 25 mm and Machine laid, 25 mm.
 - Binder course: Hand laid, 13 mm and Machine laid, 13 mm.
 - Surface course: Hand laid, 10 mm and Machine laid, 7 mm.
 - Where a straightedge cannot be used the surface must be of a comparable standard of accuracy when judged by eye.

COMPLETION

Q26 Special surfacings/ pavings for sport/ general amenity

To be read with Preliminaries/ General conditions.

SPORTS SURFACING

140 SURFACE GRADIENTS, EVENNESS AND FLATNESS

- Surface regularity: As specified by BS 7044-4.
- Deviation from the finished plane: When checked on a 10 m grid the difference in level between adjacent grid points, after taking design gradients into account, must not exceed ± 25 mm.
- Profile: Crossfall in a single plane.
- Gradients: Not greater than 1:100 in any direction.

IMPACT ABSORBING SURFACINGS FOR PLAY AREAS

301 EXTENT OF IMPACT ABSORBING SURFACING

- General: Lay impact absorbing surfacing as indicated on drawings.

340A RUBBER GRASS SAFETY MATS

- Base: Laid on prepared level grass / turf.
 - Surface course: Impact absorbing rubber mats with honeycombed holes to allow grass growth.
 - Size 1x1.5x 23mm
 - Standard: To BS 7188.
 - Manufacturer: Submit proposals.
 - Product reference: Submit proposals.
 - Colour: black.
 - Critical fall height when tested to BS EN 1177: 2.6 m.
- Fixing: pegging and ties, to manufacturers specification. All exposed edges to be buried in grass to avoid creating trip hazard.

360 IN SITU SYNTHETIC SURFACING

- Sub-base: DOT Type 1 as section Q20.
 - Thickness: 150mm.
- Base: Coated macadam as section Q22.
 - Thickness: 50-60mm.
- Surface course: Wet pour, in situ laid polyurethane bound EPDM rubber crumb surface.
 - Standard: To BS 7188.
 - Manufacturer: Contractor's choice.
 - Product reference: Submit proposals.
 - Colour: black.
 - Critical fall height when tested to BS EN 1177: 1.0 m.
 - Health and safety:
 - Substance known to be toxic or carcinogenic on skin contact or released as vapour or dust during normal use: Not permitted.
- Submit:
 - Resistance to abrasive wear, slip resistance, resistance to indentation and ease of ignition: Evidence of testing to BS 7188.
 - Critical fall height: Evidence of testing to BS EN 1177.

ASSOCIATED ACCESSORIES

COMPLETION

920 PLAY SURFACE TESTING

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

930 DOCUMENTATION

- General: For all types of surfacing, provide the following:
 - Name and contact details of installer.
 - Date of installation.
 - Name and contact details of manufacturer.
 - Type/ description/ reference of products used.
 - Manufacturer's recommended inspection and maintenance procedures to maintain safety and impact absorbing performance.
 - Manufacturer's recommended cleaning and maintenance methods, where relevant.

Q28 Topsoil and soil ameliorants

To be read with Preliminaries/ General conditions.

SYSTEM OUTLINE

115 SOIL SYSTEM FOR GRASS SWARDS FOR PLAYGROUND

- Composition:
 - Soil: Imported topsoil to BS 3882.
 - Ameliorants: None.
 - Accessories: None.

PRODUCTS

300 PREPARATION MATERIALS GENERALLY

- Purity: Free of pests and disease.
- 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.
- Contamination: Do not use topsoil contaminated with subsoil, rubbish or other materials that are:
 - Corrosive, explosive or flammable.
 - Hazardous to human or animal life.
 - Detrimental to healthy plant growth.
- Subsoil: In areas to receive topsoil or planting media, do not use subsoil contaminated with the above materials.
- Objectionable odour: None.
- Give notice: If any evidence or symptoms of soil contamination are discovered on the site or in topsoil or planting media to be imported.

310 MATERIALS NOT PERMITTED

- Materials: Peat.

315 IMPORTED TOPSOIL TO BS 3882 FOR TURFING

- Quantity: Provide as necessary to make up any deficiency of topsoil existing on site and to complete the work.
- Standard: To BS 3882.
- Classification: Multipurpose.
 - Grade: Within the parameters of 'sandy loam' textural class.
- Source: Submit proposals.
 - Product reference: Contractor's choice.

EXECUTION

630 DOCUMENTATION FOR IMPORTED TOPSOIL FOR TURFING

- Timing: Submit at handover.
- Contents:
 - Full description of all soil components.
 - Record of source for all soil components.
 - Record drawings showing the location and depth of all soils by type and grade.
 - Declaration of analysis: in accordance with BS 3882, Annex E.
- Number of copies: Two.

655 MECHANICAL TOOLS

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

665 SUBSOIL SURFACE PREPARATION

- General: Excavate and/ or place fill to required profiles and levels, as section D20.
- Loosening:
 - Light and non-cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 300 mm.
 - Stiff clay and cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 450 mm.
 - Rock and chalk subgrades: Lightly scarify to promote free drainage.
- Stones: Immediately before spreading topsoil, remove stones larger than 50 mm.
- Remove from site: Arisings, contaminants and debris and Builders rubble.

680 SURPLUS TOPSOIL TO BE RETAINED

- Generally: Spread and level on site:
 - Locations: Any areas where topsoil is required for new planting.
 - Protected areas: Do not raise soil level within root spread of trees that are to be retained.

700 GRADING OF TOPSOIL

- Topsoil condition: Reasonably dry and workable.
- Contours: Smooth and flowing, with falls for adequate drainage.
 - Hollows and ridges: Not permitted.
- Finished levels after settlement: 25 mm above adjoining paving, kerbs, manholes etc.
- Give notice: If required levels cannot be achieved by movement of existing soil.

705 HANDLING TOPSOIL

- Aggressive weeds: Give notice and obtain instructions before moving topsoil.
- Plant: Select and use plant to minimize disturbance, trafficking and compaction.
- Contamination: Do not mix topsoil with:
 - Subsoil, stone, hardcore, rubbish or material from demolition work.
 - Other grades of topsoil.
- Multiple handling: Keep to a minimum. Use or stockpile topsoil immediately after stripping.
- Wet conditions: Handle topsoil in the driest condition possible. Do not handle during or after heavy rainfall or when it is wetter than the plastic limit BS 1377-2.

710 SPREADING TOPSOIL

- Temporary roads/ surfacing: Remove before spreading topsoil.
- Layers:
 - Depth (maximum): 150 mm.
 - Gently firm each layer before spreading the next.
- Depths after firming and settlement (minimum): 150 mm.
- Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

718 FINAL CULTIVATION FOR TURFING

- Compacted topsoil: Break up to full depth.
- Tilth: Loosen, aerate and break up topsoil to a tilth suitable for blade grading.
- Depth: 100 mm.
- Particle size (maximum): 5 mm.
- Timing: Within a few days before planting.
- Weather and ground conditions: Suitably dry.
- Surface: Leave regular and even.
- Levels: 50 mm above adjoining lawns.
- Undesirable material brought to the surface:
 - Remove visible weeds.
 - Remove roots and large stones with any dimension exceeding 50 mm.

825 APPLYING FERTILIZER TO PROPOSED GRASS AREAS TO TURFED AREAS

- Application: Before final cultivation and three to five days before seeding/ turfing.
- Coverage:
- Spread evenly, in transverse directions.
 - Rate: 50 g/m².

845 APPLYING LOOSE MULCH FOR PLANTING BEDS

- Timing: Immediately after planting.
- Preparation: Clear all weeds.
- Coverage of mulch (minimum):
 - Planting beds (depth): 75 mm depth of medium grade bark mulch.
 - Trees: In a circular area of 500 mm radius measured from the tree stem.
 - Container planting: na.
- Finished level of mulch: na.

Q30 Seeding/turfing

To be read with Preliminaries/General conditions.

GENERAL INFORMATION/REQUIREMENTS

115 SEEDED AND TURFED AREAS

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

120 CLIMATIC CONDITIONS

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

145 WATERING

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

PREPARATION

250 SOIL REQUIREMENTS

- Type:
 - Seeded areas: na.
 - Turfed areas: Soil for grass swards, as section Q28 .
 - Reinforced grass areas: Soil for grass swards, as section Q28.

TURFING

400 CULTIVATED TURF PLAY GROUND

- Supplier: Submit proposals.
 - Product reference: Suitable for general amenity use.
- Properties of soil used for turf production: Peat-free, well drained sandy loam.

420 DELIVERY AND STORAGE

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

430 TURFING GENERALLY

- Time of year: To be agreed.
- Timing of laying:
 - Spring and summer: Within 18 hours of delivery.
 - Autumn and winter: Within 24 hours of delivery.
- 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.
- Working access: Planks laid on previously laid turf. Do not walk on prepared bed or newly laid turf.
- Jointing: Laid with broken joints, well butted up. Do not stretch turf.
- Edges: Whole turfs, trimmed to a true line.
- Adjusting levels: Remove high spots and fill hollows with fine soil.
- Consolidating: Lightly and evenly firm as laying proceeds to ensure full contact with substrate. Do not use rollers.
- Dressing, brushed well in to completely fill all joints: None.
- Watering: Thoroughly water completed turf immediately after laying. Check that water has penetrated into the soil below.

450 TRIMMING TURF

- Newly planted tree pits: Neatly cut away around individual trees.
 - Diameter: 500MM.
 - Tree pit surface: Bark mulch.

590 CLEANLINESS

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

Q50 Site/street furniture/equipment

To be read with Preliminaries/ General conditions.

SITE AND STREET FURNITURE

225A TIMBER TREE SEAT FOR PLAYGROUND

- Manufacturer: Touch Wood Enterprises Ltd. <http://touchwoodplay.co.uk/>. or similar approved .
 - Product reference: Hexagonal tree seat.
- Material: Rustic timberl.
- Size: 1.88 m long.
- Accessories/ Special requirements: post holes to be hand dug to avoid damage to tree roots.
- Method of fixing: Root, 300 mm below ground, set in concrete.

INSTALLATION

510 CONCRETE FOUNDATIONS GENERALLY

- Standard: To BS 8500-2.
- Concrete: Designated, not less than GEN 1.
- Admixtures: Do not use.
- Foundation holes: Neat vertical sides.
- Depth of foundations, bedding, haunching: Appropriate to provide adequate support and to receive overlying soft landscape or paving finishes.

515 SETTING COMPONENTS IN CONCRETE

- Holes: 250 x 250 x minimum 300 mm deep.
- Components: Accurately positioned and securely supported.
- Concrete fill: Fully compacted as filling proceeds.
- Concrete foundations exposed to view: Compacted until air bubbles cease to appear on the upper surface, then weathered to shed water and trowelled smooth.
- Temporary component support: Maintain undisturbed for minimum 48 hours.

520 SETTING IN EARTH

- Holes: As small as practicable.
- Components being fixed: Accurately positioned and securely supported.
- Buried depth (minimum): 300 mm.
- Earth refill: Well rammed as filling proceeds.

530 PRESERVATIVE TREATED TIMBER

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

550 DAMAGE TO GALVANIZED SURFACES

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

560 SITE PAINTING

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

Q52 Play and sports equipment

To be read with Preliminaries/ General conditions.

PRODUCTS

320 BALANCE BEAM TO PLAYGROUND

- Standard: To BS EN 1176-1.
- Manufacturer: Playdale Playgrounds or similar approved.
 - Product reference: 2.6m log beam.
- Age range: 3-14.
- Materials: Wood.
 - Finish: None.
 - Colour: n/a.
- Length: 2.6.
- Height: 0.35-1.45.
- Features: n/a.
- Method of fixing: Set in concrete.

320A INTERTWINE BALANCE BEAM TO PLAYGROUND

- Standard: To BS EN 1176-1.
- Manufacturer: Playdale Playgrounds or similar approved.
 - Product reference: Intertwine timber adventure trail unit.
- Materials: Wood.
 - Finish: as manufactured.
 - Colour: n/a.
- Length: 3.5m.
- Height: 0.3-1.45.
- Features: n/a.
- Method of fixing: Set in concrete.

320B LOG STEP TO PLAYGROUND

- Standard: To BS EN 1176-1.
- Manufacturer: Playdale Playgrounds or similar approved.
 - Product reference: Timber log step.
- Materials: Wood.
 - Finish: as supplied.
 - Colour: n/a.
- Height: 0.6m set 0.2m above ground level.
- Features: n/a.
- Method of fixing: Set in concrete.

330A TIMBER POLE STILTS TO PLAYGROUND

- Standard: To BS EN 1176-1.
- Manufacturer: Playdale Playgrounds or similar approved.
 - Product reference: Timber Zig Zag Stilts, six number.
- Age range: 5-14.
- Materials: round timber.
 - Finish: natural.
 - Colour: none.
- Plan size: As data sheet.
- Height: top of pole height 1.5 m.
- Features: foot hold .
- Method of fixing: Set in concrete.

430 SPINNING EQUIPMENT TO PLAYGROUND

- Standard: To BS EN 1176-1 and -5.
- Manufacturer: Wicksteed.
 - Product reference: Swirl DDA compliant accessible roundabout, Ref 6020-090, or similar approved.
- Age range: 3-15.
- Materials: Galvanized steel.
 - Finish: as manufactured.
 - Colour: Manufacturer's standard.
- Diameter: 2.0 m.
- Deck height: Flush.
- Features: Wheelchair bay.
- Method of fixing: Set in concrete.

440 SWINGING EQUIPMENT TO PLAYGROUND

- Standard: To BS EN 1176-1 and -2.
- Manufacturer: Wicksteed. Or similar approved.
 - Product reference: Single bay Viking swing with 2 x number flat seats, Ref 6040-103, or similar approved.
- Age range: 3 - adult.
- Type: 1.
- Frame: Traditional.
 - Bays: 1.
 - Materials: Galvanized steel.
 - Finish: None.
 - Colour: Manufacturer's standard.
 - Height: 2.4 m.
- Seats: 2 Flat.
 - Materials: Manufacturer's standard.
 - Ground clearance: Manufacturer's standard.
- Features: Anti-wrap chain.
- Method of fixing: Set in concrete.

440A TRAMPOLINE TO PLAYGROUND

- Manufacturer: Russel Play. Or similar approved .
 - Product reference: Eurotramp, Kids Tramp Playground XL Ref (97500).
- Type: In ground.
- - Materials: As supplied.
- - Finish: as manufactured.
- - Colour: Manufacturer's standard.
- - Height: ground level.
- - Width: 2.1x2.1m squared.
- - Method of fixing: Set in ground as manufactures instructions.

440B SWINGABOUT REPLACEMENT SEAT AND CHAIN ASSEMBLY TO PLAYGROUND

- Manufacturer: HAGS contact: Joshua Frost-Lunn <JFrost-Lunn@hags.co.uk>.
 - Product reference: Replace existing tyre seat on old SMP Swingabout unit with new basket swing assembly from HAGS Mega Vortex unit.
- Seats: 1 round basket swing seat.
- Features: 4 x 15011612 Oilite Bush (to replace existing worn lugs .
- Method of fixing: Set in concrete.

440C SWINGING STEPS TO PLAYGROUND

- Standard: To BS EN 1176-1 and -2.
- Manufacturer: Playdale. Or similar approved.
 - Product reference: Swinging timber step unit (4 number steps).
- Frame: Timber.
 - Steps: 4 number.
 - Materials: as manufactured.
 - Finish: as supplied.
 - Height: 0.55-2.5 m.
- - Ground clearance: Manufacturer's standard.
- Method of fixing: Set in concrete.

EXECUTION

710 PLAY EQUIPMENT INSTALLATION GENERALLY

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

720 CONCRETE FOUNDATIONS GENERALLY

- Standard: To BS 8500-2.
- Concrete: Designated, not less than GEN 1 or Standard prescribed, not less than ST2.
- Admixtures: Do not use.
- Foundation holes: Neat vertical sides.
- Depth of foundations, bedding, haunching: Appropriate to provide adequate support and to receive overlying soft landscape or paving finishes.

725 SETTING COMPONENTS IN CONCRETE

- Holes: 250 x 250 x minimum 300 mm deep.
- Components: Accurately positioned and securely supported.
- Concrete fill: Fully compacted as filling proceeds.
- Concrete foundations exposed to view: Finished to weathering profile to shed water and trowel smooth.
- Temporary component support: Maintain undisturbed for minimum 48 hours.

730 SETTING COMPONENTS IN EARTH

- Holes: As small as practicable.
- Components being fixed: Accurately positioned and securely supported.
- Buried depth (minimum): 200 mm.
- Earth refilling: Well rammed as filling proceeds.

740 PRESERVATIVE TREATED TIMBER

- Surfaces exposed by minor cutting and drilling: Treated by immersion or with two flood coats of a solution recommended for the purpose by main treatment solution manufacturer.

750 DAMAGE TO GALVANIZED SURFACES

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

760 SITE PAINTING

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

COMPLETION

910 INSPECTION

- Standard: To BS EN 1176-1.
- Timing: 2 weeks prior to date when work is expected to be practically complete. Rospa contact: Elizabeth Cheshire echeshire@rospaplaysafety.co.uk .
- Period of notice (minimum): 3 working days.

920 CLEANING

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

930 TESTING

- Standard: To BS EN 1176-1.

940 LABELS

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

950 DOCUMENTATION

- Standard: To BS EN 1176-1.
- Contents:
 - Copies of test reports.
 - General product information.
 - Installation information.
 - Inspection and maintenance information.
- Number of copies: 2.
- Submission: 2 weeks after request by contract administrator.

970 OPERATING TOOLS

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