eserved. Licence number 100022432

Specification for Soft and Hard Landscape Works.

Unless where otherwise specified:-

A. Setting Out

1. Planting shall be set out exactly as shown on the drawing, and measured from existing fixed points. Curved beds shall be set out using cafe scribed on the ground using two pointed stakes and a line between, or with site marker paint; The junction between convex and concave curves shall be cut to form a smooth and even flowing line. Check that all setting out conforms to the plan before cultivation and planting works are carried out. Failure to do so may result in rejection of the work by the landscape architect and may require amendment at the contractor's expense.
2. All planting beds shall be a minimum of 1 metre wide, except where there is insufficient space, due to the proximity of existing trees, buildings or other permanent structures or features. Immediately before the hard path edging, ensure that the bed has space free from concrete footings before planting. If the bed is sealed with concrete, then the landscape contractor shall contact the site manager or landscape architect to determine if footings are excessive and can be reduced or else, the bed can be paved. The width of all beds will be checked by the inspecting landscape architect and where the width is not as drawn, the contractor shall re-cultivate them to the specified width at his own expense.

B.Ground Preparation.

1. Pre-planting herbicide application shall be applied by suitable spraying apparatus using an approved translocated systemic herbicide to manufacturer's instructions and to 1997 Control of Pesticides Regulations and 2003 COSHH regulations on all beds, except those which are bark wood free and are to receive geotextile sheet mulch. Spray immediately if any weeds are present. If none are showing, but there may be a delay before planting, or the area is to be seeded, spray after one month following cultivation, to allow the weeds seed to germinate and grow to ensure a kill. Any herbicide application to grass areas, carried out in unsuitable weather (no wind) and any damage caused by spray drift, from incorrect usage or spillage, shall be rectified at the contractor's own cost. Repeat as necessary to ensure complete kill and rake off all dead material from site.
2. Carry out the following works to the existing topsoil on site to ensure it conforms to BS 3882:2007, being free from stones larger than 50m diameter, concrete, all roots, wire, brick, and have less than 20% clay. Allow for pre-application of herbicide as above. Fertilise with 100g per metre square of Fisons "Nutrascote" slow release fertilizer, in accordance with the manufacturer's instructions. For beds less than 5 metres in width, fork over thoroughly or machine rotovate soil to a depth of 300mm, ensuring that the subgrade and topsoil are completely broken up and free draining, relieving any compaction. For beds greater than 5 metres in width, break up the subgrade and topsoil using a tractor mounted subsoiler or ripper at 500mm centres to a depth of 500mm, except where there are services, or within 10 metres of tree crotes or 5 metres of existing hedges. Do not rip areas where roots greater than 10mm diameter are encountered.
3. Imported topsoil (where specified and sanctioned by the employer) for making up ground, shall conform to BS 3882:2007, and be free from rocks (over 50mm diameter), concrete, roots, wire and brick, and have less than greater than 20% clay. Such soil shall be cultivated as set out above. Representative samples shall first be approved by the landscape architect before being supplied to site. No imported soil shall be supplied to site without a written instruction.

C.Planting

1. All planting must be carried out in accordance to the specification and schedule of quantities accompanying these drawings. Refer to the specification for the preparation of existing topsoil and required depths for planting, turfing, and standard trees, and also for maintenance requirements.
2. No substitutions will be accepted without the prior agreement of the inspecting landscape architect. The contractor shall replace at once at his own cost any stock size, species or variety of plant which has not been specified, or any specified plant which has been substituted without prior agreement, when the landscape architect has been received. All plants shall be true to size specified in the schedule of plants and associated notes. (3L pots are 19cm diameter and 15cm deep). All shrubs, (other than ground cover), shall be 400-600mm height and spread, or otherwise specified for the pot size by the BTA National Plant Specification and be bushy, healthy, disease free stock, not pot bound, leggy or spindly. There should be a minimum of 5 breaks per shrub. This specification is the minimum standard required and any stock falling below this standard, in the sole opinion of the inspecting landscape architect, shall be lifted and replaced at the contractor's expense.
3. All shrubs, herbaceous plants, whips and transplants shall be watered in on planting with 20 litres per square metre. Trees shall be watered in with 25 litres per tree position. Water thereafter during the contract period at weekly intervals with 30 litres of water.
4. Proposed large feathered or standard trees to be true to the species, variety and size as specified on the planting plan, to include 1.6m chestnut stake 600mm above ground and 1000mm below ground) and 19cm tie with spacing device positioned 250mm maximum from the top of the pot.
5. Supply and install tree ties and stakes of the specified type, dimensions, specification and source, approved by the landscape architect. The contractor shall replace at once any tree rejected by the landscape architect at his own cost.
6. Self-clinging climbing shrubs or wall shrubs shall be trained to the wall/fence with heavy duty, plastic coated garden wire. Training wires shall be attached vertically to the wall/fence by means of 125mm long stainless steel eye screw fittings. Position 150c. at 250mm from ground, and 150c. 250mm from top of the wall/fence, and using the wire tightly between the fittings. Train the climber to the wire with plastic coated garden wire tags.
7. Training varieties of climber shall be trained in walls/fences by mounting ready-made trellis panels 1.8 x 1.8m generally (but 1.8 x 0.6m for corners or where space is restricted). Include for adapting any panels for locations where walls or fences are lower than 1.8m. Fix trellis panels to the wall/fences using non rusting screws 125mm long (to be approved), incorporating 50mm cube wood spacing blocks to ensure that the panel is mounted sufficiently far from the wall/fence to allow twining of stems. Ensure that all timber is pressure impregnated with a non phyto-toxic preservative and then painted with a dark brown non phyto-toxic preservative to match the trellis. Ensure that the bottom of the trellis panel is secure and that the trellis is not in contact with the ground. Train the climbing shrub to the trellis with plastic coated garden wire tags.
8. Climbers specified outside proposed shrub beds shall have specially prepared climber pits. Climber pits shall be 400mm x 400mm and 600mm deep (minimum size), and be backfilled with topsoil (from site - unless otherwise agreed). Ensure the base of the pit is thoroughly broken up and free draining before back filling with topsoil. Ensure no damage to foundations and services, and make good all rotovators and surfaces disturbed. Fertilise with 50g of Fisons "Nutrascote" slow release fertiliser. Water with 15 litres of water per climber pit.

D. Mulch

1. When specified by the additional specification notes on this plan, supply and spread agrotextile "Weedstop Fabric" sheet mulch over planting beds, previously, cultivated, graded and fertilized topsoil before planting, and peg down the edges pegs at a minimum of 500mm centres, (200mm at edges) and beds less than 1m wide. Peg down the edges of the mulch to prevent flaps of material becoming exposed. Refer to the specification for "Weedstop Fabric" sheet mulch.
2. Following planting supply and spread evenly Melcourt Industries "Rustic Biomulch" to a depth of 50mm, (75mm if no sheet mulch specified), over all planted areas. Finished mulch levels shall be no higher than 15mm below pavement or grass levels to avoid any spillage onto pavements or lawns. N.B. no substitution of mulch type will be acceptable. It is essential to have a no-fines, large particled, brown wood chip to reduce weed growth, reduce wind blow and prevent rapid break down.

E.BS Codes

1. All workmanship and materials shall conform to the following codes:-
   - General landscape operations (excluding hard surfaces) - BS 4428:1989.
   - Trees in relation to construction- BS 5837:2012 and BS 6549:1990.
   - Root ball dimensions (container grown trees) - specified.
   - Arboricultural Association - Standard Conditions of Contracts and Specifications of Tree Works 1996.
   - Nursery stock in accordance with latest horticultural trade association nursery stock specification entitled "National Plant Specification 2001".
   - Plants shall conform to:-
   - BS 3969:-1:1992 Nursery Stock - Specification for trees and shrubs.
   - BS 3969:-2:1990 Nursery Stock - Specification for roses + AMD 6628.
   - BS 3969:-4:1984 Nursery Stock - Specification for fence trees.
   - BS 3969:-5:1985 Nursery Stock - Specification for poplars and willows.
   - BS 3936:-5:1998 Nursery Stock - Specification for bulbs, corms and tubers.
   - BS 3936:10:1990 Nursery Stock - Specification for ground cover shrubs. CPSE-Committee for Plant Establishment, Handling and establishing landscape plants 1986, Part 3.
   - Glossary for Landscape Works BS 3975 Pt 4:1980.
   - Seeding - BS 4428:1989: recommendations for turf for general purposes.
   - Seeding - EEC Regulations 1974. Use blue labelled certified varieties in EC purity and germination regulations. When requested, submit an official seed Testing Station Certificate of germination, purity and composition.
   - Topsoil - BS 3882:2007
   - Pesticides: Control of Pesticides Regulations 1997; The Health and Safety at Work Act 1974; the COSHH Regulation 2003; the product COSHH sheet Water Supply (Water Quality) Regulations amended 1991;Control of Pollution Act 1974; Hedgerow ACT 1997; Wildlife and Countryside Act 1981.

F.General Notes for the Developer.

1. Tree Protection
   - Any existing trees to be retained, are the responsibility of the main contractor on site who shall take all necessary protective measures set out in BS 5837:2012 to ensure no damage to stems or roots, to prevent compaction from vehicles or storage of materials, contamination of soil from spillages, scorching from fires and instability or stress from changes of soil level. The landscape contractor is however responsible for ensuring that neither plant, materials or labour are cause of any damage to existing trees, and like the employer, the landscape contractor shall replace at once any tree damaged on site, supplying and planting a tree of the same species and size, at his own cost. Suitable protective measures shall be chestnut paling fixed firmly to a rigid timber or scaffolding frame, positioned as closer to the trunk than the drip line of the tree's canopy.

2. Ground Work
   - Trenches for shrub beds and grass areas should have any compacted subgrade thoroughly broken up by machine before instructing the ground worker to spread topsoil or the landscape contractor to commence work or the beds will become waterlogged in wet weather and the plants and turf.
   - Top soil spread from on site should be to the following minimum depths:- Shrub beds: 350mm. Grass areas 150mm; allow for excavation of 415mm of the subgrade for shrub beds to leave beds 65mm below finished pavement or grass areas in order to receive sheet and bark mulch, (50mm below where sheet mulch is not to be used). Tree pits will be dug by the landscape contractor. Top soil shall be spread for grass areas flush with any areas of paving and after settlement, the sod level should be no greater than 10mm below paved areas to allow for turf. For areas to be grass seeded, the soil level shall be flush with any finished paved surfaces after settlement (or to a maximum of 5mm below) to allow for rain water to drain onto soft surfaces. Settlement shall be no greater than the tolerances given or problems will be encountered with mowing (the blades in danger of touching concrete edgings) or where soil is proud of pavements, then drainage problems will be encountered.
   - Existing topsoil and imported soil shall conform to BS 3882:2007, and be free from compactions, rocks/bricks greater than 50mm diameter, concrete, wire, roots, debris, oil, cement and builders rubble. Soil shall have a clay content of less than 20%.

3.Hardworks

   - Hard works, unless otherwise agreed, shall be carried out by the developer or main contractor. All materials and workmanship shall be in accordance with the construction details and the layout plan.
   - All paths and edgings shall be set out properly to lines and radii, with all curves scribed on the ground using pointed pegs and string or site marker paint, achieving flowing natural arcs. Setting out shall be agreed with the landscape contractor and subsequently the landscape architect.
   - Hard surfaces shall be constructed after suitable base courses have been laid, taking full account of local site conditions, soft spots and subsoils. The indicative depths of base courses are minimum depths assuming suitable subsoils conditions.
   - Metal railings shall be factory dipped galvanised in accordance with BS EN ISO1460. The galvanizer shall be responsible for the thorough removal of all galvanizing smoss (bristle)p to the complete satisfaction of the Landscape Architect. The decorating contractor shall prepare the galvanised surface by washing with detergent and water and scrubbing with a scouring pad until all dirt, grease, white rust & sulphates have been removed & then allowed to dry thoroughly. Supply and paint Tonni 6630 from Sika Ltd (tel. 01707 374444) applied with a sorkbrsd brush strictly in accordance with the manufacturer's instructions, COSHH regulations and the product COSHH sheet. Apply 2No. coats of paint with a dry film thickness of 100 microns per coat. Apply paint only when galvanised surface is thoroughly dry at temperatures above five degrees Celsius and in any event above the current dew point temperature. Paint work will be subject to inspection by experts and if found wanting, shall be stripped off, re-prepared and applied entirely at the decorating contractors own cost.
   - All wood work to use ACQ water based wood preservative applied by vacuum pressure by Permawood or other similar and approved company. The timber shall then be stained with 2No. coats of Sadolin 'Classic' colour 'Walnut' strictly in accordance with the manufacturer's instructions, COSHH Regulations 2003 and product COSHH sheet.

Semi-mature standard tree planting in grassed or planted areas. Tree pits to measure a minimum of 800mm x 900mm x 750mm deep, and at least 600mm wider that the root spread. To include angled single 1.6m timber stake, 600mm above ground, spacer and tie.

Extra heavy standard tree planting in grassed or planted areas. Tree pits to measure a minimum of 800mm x 900mm x 750mm deep, and at least 600mm wider that the root spread. To include single 1.6m timber stake, 600mm above ground, spacer and tie.

Heavy standard tree planting in open space areas. Tree pits to measure a minimum of 900mm x 900mm x 750mm deep, and at least 600mm wider that the root spread. To include double 1.6m timber stake, 600mm above ground, cross beam, spacer and tie.

Ornamental shrub planting, including 50mm depth no-fines bark mulch. Individual species to be planted in groups of no more than 7 plants.

Areas of 30mm depth washed golden gravel, retained by adjacent paving or, where adjacent to grass, with pressure impregnated timber edging.

Ornamental hedge planting, including 50mm depth no-fine bark mulch.

Areas to be turfed.

Areas of native bulb and species-rich grass seed planting within verge and open space areas.

Areas of amenity grass seeding.

Location of protective tree fencing as per BS5837:2012.

PDP Associates
Great Hide
Unit 2 Wetherby Whitehead Courtyard
Leeds
LS22 6RD
01756 213120
info@pdpassociates.org.uk

Client
Keepmoat Homes

Project
Middleton Park, Leeds

Drawing title
Overall Landscape Proposals

| Scale | Drawn by | Date |
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| 1:500 @ A0 | PDP | June 2016 |

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