



Specification for Soft and Hard Landscapes Works
 All landscape works shall comply with BS 4126:1998
 Unless 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 radii based on the ground using two pointed callipers and a theodolite, or with site marker posts and a junction between curves and straight lines shall be set out from a smooth and even bearing line. Check that all planting 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 constraints of walls and path edgings and their foundations. With narrow beds between walls/paths and path edgings, 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 drainage is necessary 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 as shown, the contractor shall re-cultivate them to the specified width at his own expense.
- B. **Ground Preparation**
 1. The planting holes shall be applied by suitable springing 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 both weed free and are to receive geotextile sheet mulch. Spray immediately if any weeds are present. If more are showing, but there may be a delay before planting, or the area is to be topped, spray after one month following cultivation, to allow dormant seed germination. All spraying shall be carried out by skilled and qualified operators, using protective clothing, in suitable 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 avoid residual material from soil.
 2. Carry out the following works to the existing topsoil on site to ensure it conforms to BS 3882:2015. Bring from rocks larger than 50mm diameter, concrete, all roots, wire, brick and have less than 20% clay. Allow pre-application of herbicide as per section 2.1. Apply 100g per square metre of Fisons 'Nutracote' slow release fertilizer, in accordance with the manufacturer's instructions. For beds from 100 to 150m² in width, lay over topsoil or machine rotavator soil to a depth of 300mm, ensuring that the subgrade and topsoil are completely broken up and free from clumps, retaining any vegetation. For beds greater than 150m² in width, break up the subgrade and topsoil using a tractor mounted subsoiler or ripper at 500mm intervals to a depth of 300mm, except where there are sections with 10 metres or more of trees or 3 metres of existing hedges. Do not rip areas where roots greater than 10mm diameter are encountered. Do not break up soil within the root protection zone of any retained tree. Refer to 'All About Trees' Agricultural Industries Association for further information.
 3. Determine before submitting a tender, the extent of support from the site manager with ground preparation, ensure that all planting beds to be graded to a level above the existing ground or paved surface, (100mm below where agro-textile soil mat is not specified), within 400-600mm of edges to ensure bark or wood chip mulch is retained. Where grass is proposed, then the soil level shall be flush (maximum 10mm below). Lay (new or used) 400mm of good quality topsoil to a depth of 100mm. The landscape contractor is responsible for ensuring that the final product conforms to the specification even where the developer or another contractor is responsible for topsoil to be applied and spread to the required level. The landscape contractor shall allow for adjustment of levels, as specified above, including re-grading subsoil and topsoil. Where beds are sloping, ensure that topsoil is graded to the specified levels below pavement & grass surface within 400mm of the edges of the bed. This is to allow sheet mulch and bark or wood chip mulch so that much does not spill out on to pavements and also to allow surface water to drain from the bed to the paved area.
 4. For sloping areas to be planted adjacent to paved areas, topsoil levels shall be graded flush with the finished pavement level (up to 100mm) by using a roller to compact the topsoil and pavements to soft areas. Soil of grass areas should therefore never be placed of paved areas. Soil levels must be checked to ensure a 100mm depth of topsoil remains above the pavement.
 5. Imported topsoil (where specified and sanctioned by the employer) for making up ground, shall conform to BS 3882:2015 and be free from rocks (over 50mm diameter), concrete, wire, and have less than greater than 20% clay. Such topsoil shall be tested as set out above. Representative samples shall be approved by the landscape architect before being supplied to site; no imported soil shall be supplied on site without a written instruction.
- C. **Planting**
 1. All planting must be carried out in accordance to the specification and schedule of quantities accompanying the drawings. Refer to the specification for the preparation of existing topsoil and required depths for planting, surfacing, standardisation, 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, species or variety of plant which has not been specified on the planting plan and which is not in the schedule of quantities to be substituted by the landscape architect has been received. All plants shall be true to the specification in the schedule of quantities and associated notes. Plants shall be healthy, disease free, well rooted, boughy and sprightly. There should be a minimum of 10% break per plant, greater than 20% clay. Such plants shall be tested as set out above. Representative samples shall be approved by the landscape architect before being supplied to site; no imported soil shall be supplied on site without a written instruction.
 3. Self-cleaning climbing shrubs or wall shrubs shall be trained to the wallface with heavy duty plastic coated garden wire. Training wires shall be attached to the wall face by means of 125mm long stainless steel eye screw fixings. Position the wire at 250mm from ground. Use 250mm diameter of the wallface, and string the wire tightly between the strings. Train the climber to the wire with plastic coated garden wire mounting rings. Install 10mm diameter of the wallface using non rusting screws 120mm long (to be specified). Incorporating 50mm raku wood spacing blocks to ensure that the plant is mounted sufficiently far from the wall face to allow watering of stems. Ensure all timber is pressure treated and impregnated with a non phytic based preservative and then painted with a dark brown non phytic preservative wood such as Sadolin 'Classic' against rot and insect attack. Ensure that the timber is not in contact with the ground. Train the climbing shrub to the trellis with plastic coated garden wire.
 4. Climbers specified outside proposed shrub beds shall have specially prepared timber pits. Climber pits shall be 400mm x 400mm and 600mm deep. They shall be backfilled with topsoil from site, unless otherwise agreed. Ensure the base of the pit is thoroughly broken and the drainage holes are clear. Ensure that the drainage holes are clear and unobstructed, and make good all structures and surfaces disturbed. Fertilise with 50g of Fisons 'Nutracote' slow release fertilizer. Water with 15 litres of water per cubic pit.
- D. **Mulch**
 1. When specified by the additional schedule on this plan, supply and spread aggregate 'Weedstop Fibre' sheet mulch over planting beds, previously cultivated, graded and finished topsoil before planting, and lay down with Weedstop mats at a minimum of 500mm centres, (500mm at edges) and beds less than 1m wide. Hedges in diversity is essential to prevent flight of rodents from exposed trellis to the application for 'Weedstop Fibre' sheet mulch on plan.
 2. Following planting supply and spread Emorsar 'Masterrol' 'Bioactive' to a depth of 100mm. (Emorsar 'Masterrol' sheet mulch specified, and all planned areas). Finished mulch beds shall be no higher than 15mm below pavement or grass levels to avoid spillage onto pavements or lawns. No substitution of mulch types will be accepted. It is essential to have a no fines, large particle, brown chip or reduce weed growth, reduce wind wear and prevent soil erosion.

- E. **BS Codes**
 - All workmanship and materials shall conform to the following codes:-
 - General landscape operations (including tree work) BS 4126:1998
 - Trees in relation to construction BS 5837:2012
 - BS 3998:2010 recommendations for tree work unless otherwise specified.
 - Arboricultural Association - Code of Practice for tree work contractors - standard conditions of contract and specification for tree work 2006.
 - BS 5832:2015 Trees, their nursery & independence in the landscape
- F. **General Notes for the Developer**
 1. **Tree Protection**
 - Please refer to 'All About Trees' tree protection information. No digging to take place within the root protection zones of protected trees.
 2. **General Work**
 - Soil levels for shrub beds and grass areas should have any compacted subgrade thoroughly broken up by machine before installing the ground cover to spread topsoil or the landscape contractor to commence work or the beds will become waterlogged in wet weather and the plants will die.
 - Top soil spread from on site should be to the following minimum depths:-
 - Shrub beds 300mm.
 - Grass areas 150mm, allow for excavation of 415mm of the subgrade for soil beds to be placed above an existing pavement or grass areas in order to receive sheet mulch and mulch (100mm minimum) where sheet mulch is to be used).
 - Tree pits will be as per BS 8545:2014. Top soil shall be spread for grass areas, flush with any areas of paving and/or settlement, the soil level should be no greater than 10mm below paved areas to allow for rain water to drain onto soft surfaces.
 - Settlement shall be greater than 100mm below paved areas after settlement (to a maximum of 50mm below) to allow for rain water to drain onto soft surfaces.
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 - Encountered with moving the blades, in danger of touching concrete edgings or other structures, the contractor shall be responsible for the removal of any such obstructions. Final work shall be subject to inspection by experts and if found settling, shall be stripped off, re-prepared and applied entirely at the contractor's expense.
 - All wood work to use ACO water based wood preservative applied by vacuum pressure by Permaseal or other similar approved contractor. The timber shall then be stained with 300 coats of Sadolin 'Classic' colour 'Natural' spray in accordance with the manufacturer's instructions. COSHH Regulations 2002 and COSHH sheet.

- Extra heavy standard tree planting in grassed areas with protection offered to adjacent highways/skale construction, as per drawing EC-1987-1. Tree pits as per BS 8545:2014. To include single 1.6m timber stake, 600mm above ground, spacer and biodegradable lid.
- Extra heavy standard tree planting in grassed or planted areas. Tree pits as per BS 8545:2014. To include single 1.6m timber stake, 600mm above ground, spacer and biodegradable lid.
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- Ornamental shrub planting, including 50mm depth no-fines bark mulch. Individual species to be planted in groups of no more than 7 plants.
- Ornamental hedge planting, including 50mm depth no-fines bark mulch.
- Native hedge planting. Plants to be planted at 0.33m spacing in a double staggered row (6 plants per linear metre). Shelters to all plants. Species to be planted in random, single species groups of no more than 5 plants.
- Areas to be turfed.
- Areas of amenity grass seed mix or existing grassland, made good.
- Areas of species-rich acid meadow grass seeding, such as Emorsar Mix EM4, or similar and approved.
- New native planting at 1m (shrub species) and 2m (tree species) centres, including tubular guards and stakes.
- Proposed native marginal planting.
- Proposed native reed/grass planting within swale base.
- Proposed sensory planting to play area.
- Sand/gravel margin to edge of lake.
- Hoggin paths.

Client
Keepmoat Homes

Project
Lincolnshire Lakes, Scunthorpe

Drawing title
Detailed Landscape Proposals

Scale 1:500 @ A1
 Drawn by PDP
 Date Feb 2024

Drawing No.
c-1987-04 Revision D