

Llangatwg Comprehensive School

Landscape Design Outline Specification

March 2025

Contents

1.

Introduction

1.1

Design Rationale

2.

Hard Landscape

2.1

Proposed hard landscape layout

2.2

Products palette

2.3

Precedents

3.

Soft Landscape

3.1

Proposed soft landscape layout

3.2

Indicative planting palette

3.3

SuDS indicative planting palette

4.

External Furniture

4.1

Products palette

4.2

Precedents

5.

Boundary Treatment

5.1

Products palette

6.

Roof Terraces

6.1

Proposed roof terraces layout

6.2

Products palette

6.3

Precedents

Job no.	324012
Document no.	26CC07-ASL-20-XX-T-L-0103
Suitability code	S2 - For Information
Revision no.	P04
Issue date	--
Author / Check	GC/SV
Revision notes	P04-Issued for Planning.

1.0 Introduction

1.1 Design Rationale

The proposed layout is taking into account the various restrictions imposed from construction phasing and implementation of the scheme. It separates the various external uses in a clear way, providing accessible links to all areas. The whole scheme if carefully designed with accessible levels in mind, providing a steps-free layout.

The approach towards the pupil main entrance starts with a pedestrian path collecting children from the bus drop-off and directing them towards the pupil entrance through a calm and inviting environment.

The existing open water channel is re-aligned and given a more organic form but is also transformed to a more natural and engaging feature that can be approached from a decking platform and also enjoyed from the adjacent amphitheatre.

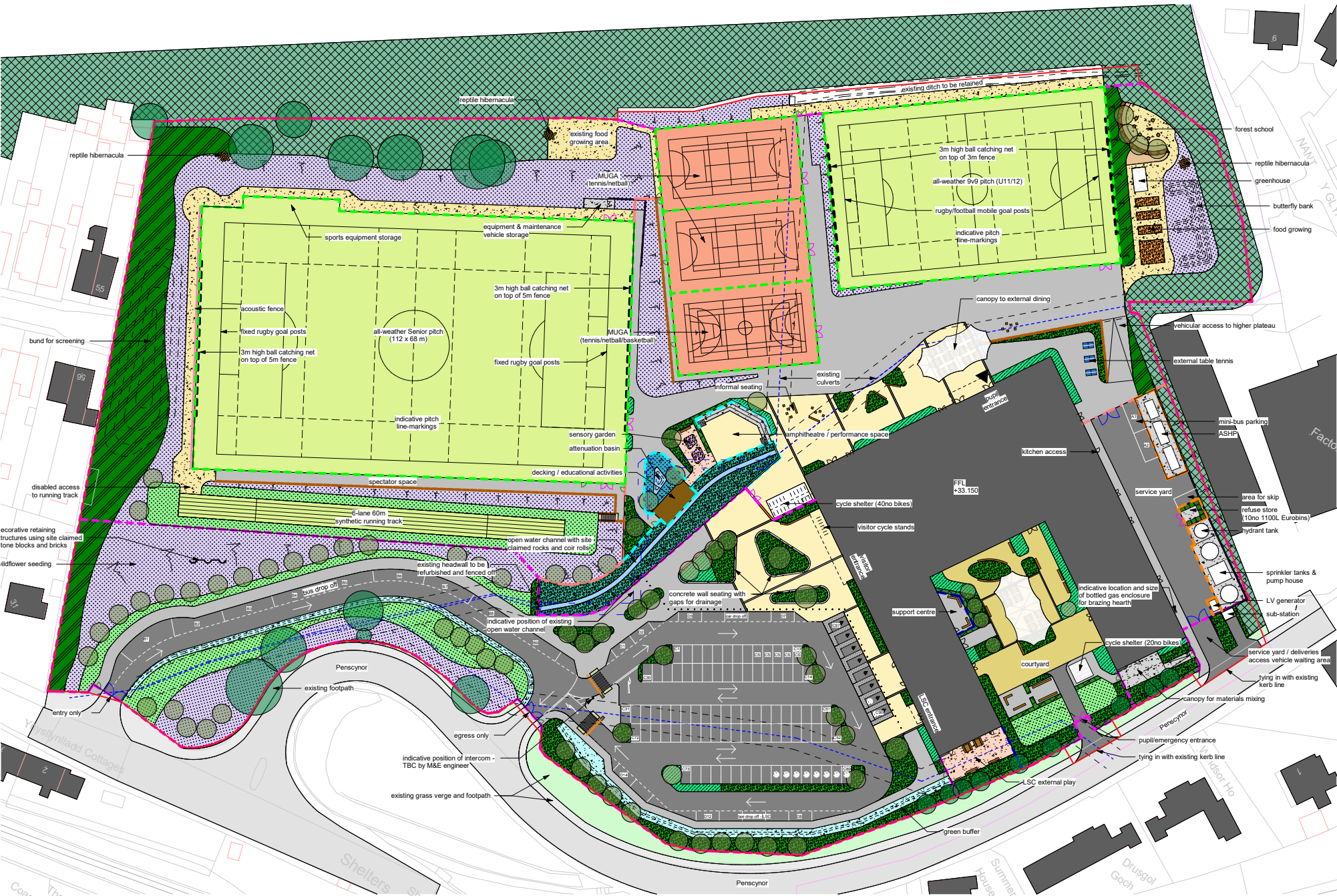
The main social space to the north of the building provides multiple opportunities for seating, socialising and external dining. This naturally leads towards an amphitheatre located right next to the open water channel, attenuation pond with swallow depth standing water and a sensory garden.

The courtyard within the C-shaped building is a multi-functional break-out space for external dining, relaxing, socialising but also educational activities through the use of multiple different sized spaces.

Three roof terraces provide a dedicated staff break-out space as well as various educational opportunities. This can include small spaces for experimentation on worktops or science related assignments.

Two all-weather pitches and three Multi Games Sports Areas provide opportunities for various sports activities, which are complimented by an exercise trail, running tracks and additional space to cater for the school's sports needs.

A forest school and food growing area are proposed close to the existing woodland to the north of the site.



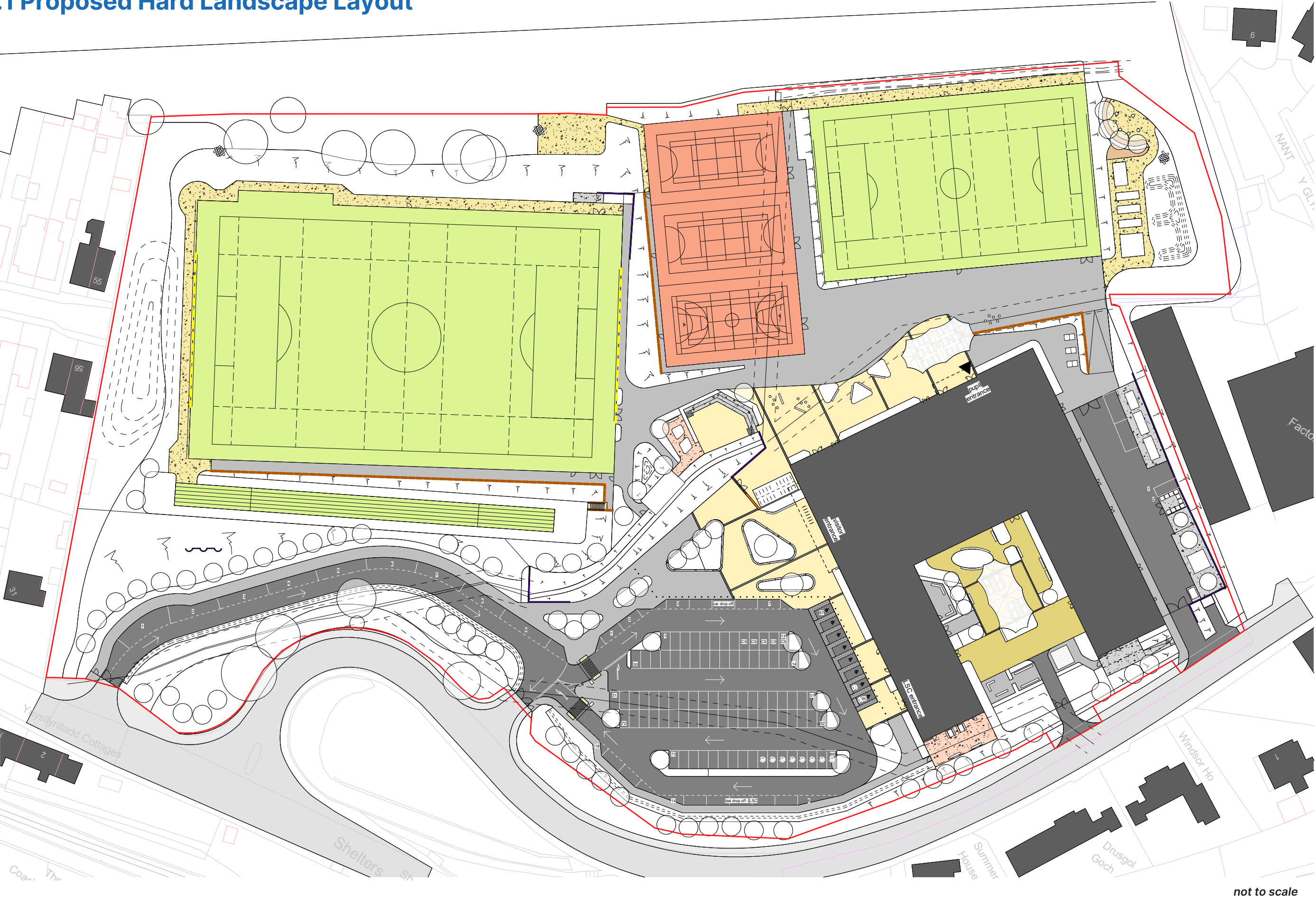
not to scale

The service yard compound is placed to the north-east side of the building, directly accessible from the main road and screened from the central areas.

Emergency access is also provided to the rest of the school's central areas if required through the service yard.

2.0 Hard Landscape

2.1 Proposed Hard Landscape Layout



2.2 Products Palette

01/ Paving To Entrance and Social Area

Manufacturer: **Marshalls PLC or accepted equivalent**

Product: **Modal X Pro paving**

Material: **Concrete**

Bond: **Staggered**

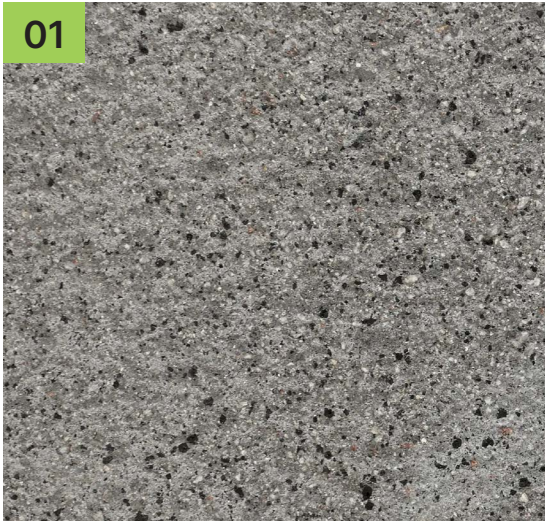
Finish: **Textured**

Dimensions: **600 × 300 × 80 mm**

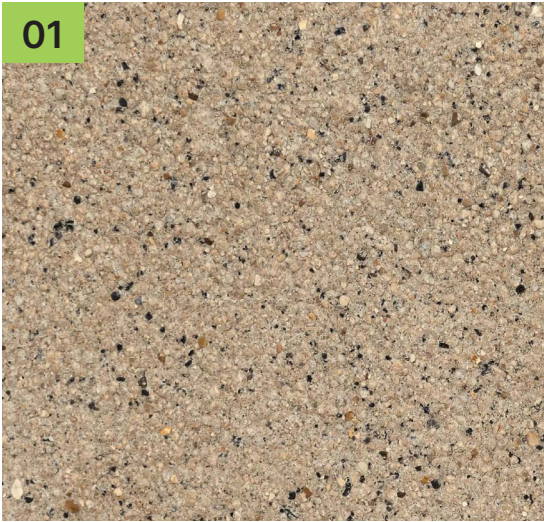
Colours: **Light Granite – Textured (60%)**
Mid Grey Granite – Textured (25%)
Oatmeal Granite – Textured (15%)



600 × 300 × 80mm
Light Granite – Textured (60%)



600 × 300 × 80mm
Mid Grey Granite – Textured (25%)



600 × 300 × 80mm
Oatmeal Granite – Textured (15%)

02/ Paving To Courtyard

Manufacturer: **Marshalls PLC or accepted equivalent**

Product: **Lunar paving**

Material: **Concrete**

Bond: **Staggered**

Dimensions: **600 × 400 × 80 mm (75%)**
200 × 400 × 80 mm (25%)

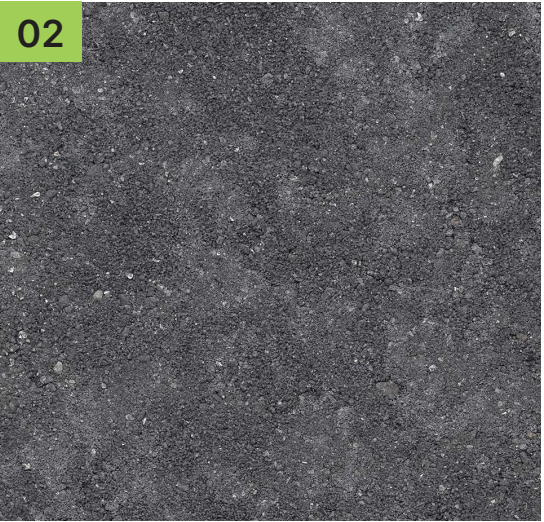
Colours: **Lunar Ice (50%)**
Lunar Silver Dust (30%)
Lunar Shadow (20%)



600/200 × 400 × 80mm
Lunar Ice (50%)



600/200 × 400 × 80mm
Lunar Silver Dust (30%)



600/200 × 400 × 80mm
Lunar Shadow (20%)

03/ Paving Edging

Manufacturer: **Marshalls PLC or accepted equivalent**

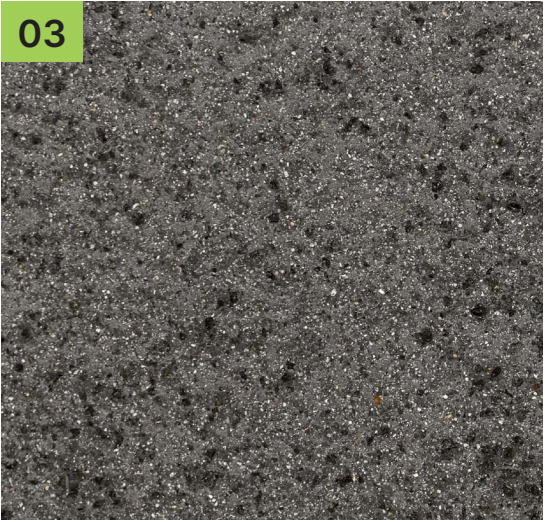
Product: **Modal X paving**

Material: **Concrete**

Bond: **Stretcher**

Dimensions: **240 × 160 × 80 mm**

Colours: **Charcoal Granite**



240 × 160 × 80mm
Charcoal

2.2 Products Palette

04/ Block Paving Bands

Manufacturer: **Marshalls PLC or accepted equivalent**
Product: **Modal X**
Material: **Concrete**
Bond: **Single Stretcher**
Finish: **Textured**
Dimensions: **300 × 200 × 60 mm**
Colour: **Charcoal Granite - Textured**

05/ Resin Bound Gravel:

Manufacturer: **GCL Products or accepted equivalent**
Product: **Caramelita Resin Bound Kit**
Installation method: **Bound**
Size: **1-3 mm & 2-5 mm**
Material: **Golden & Autumn Quartz gravel**

06/ Tactile Paving to Crossings

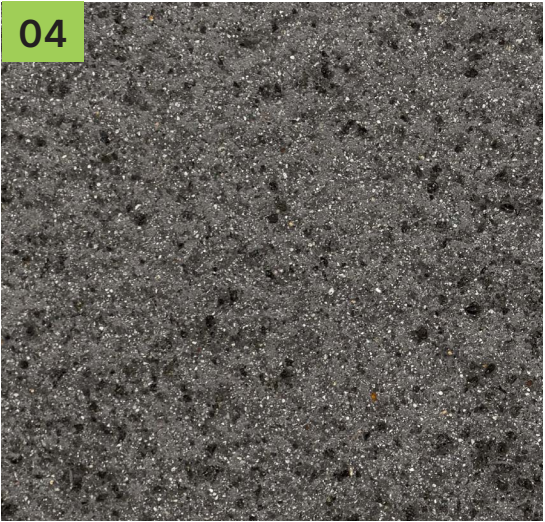
Manufacturer: **Marshalls PLC or accepted equivalent**
Product: **Tactile Blister Paving**
Material: **Concrete**
Bond: **Stacked**
Dimensions: **400 × 400 × 50 mm**
Colour: **Buff**

07/ Composite decking to roof terraces

Manufacturer: **Saige Longlife Decking Ltd or accepted equivalent**
Product: **Contemporary**
Dimensions: **143 × 23 × 3600 mm**
Colour: **Grey**

08/ Self binding gravel

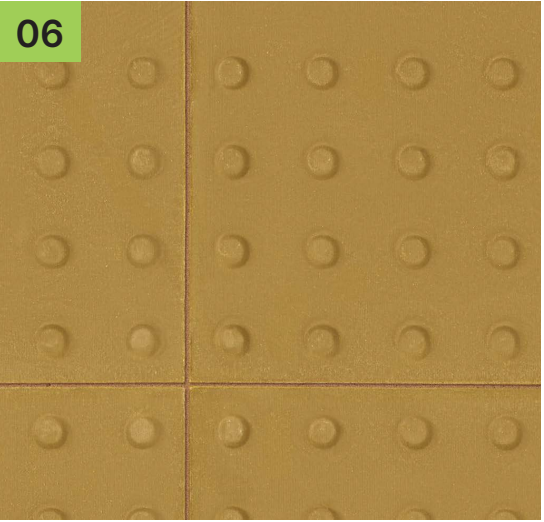
Manufacturer: **Mainland Aggregates or accepted equivalent**
Product: **Forest Rose Path Topping**



300 × 200 × 60mm
Charcoal



1-3 mm & 2-5 mm
Golden & Autumn Quartz gravel



400 × 400 × 50mm
Buff



143 × 23 × 3600mm
Grey



Forest Rose Path Topping

2.3 Precedents



3.0 Soft Landscape

3.1 Proposed Soft Landscape Layout

The soft landscape planting strategy has been developed with a few key points in mind:

- minimising the removal of existing vegetation
- providing quality playable and informal space to the pupils
- breaking up large areas of hard surfacing
- linking vegetation corridors providing a variety of habitats to enhance biodiversity.

The ecological enhancement proposals have influenced the design in terms of planting species selection and allocation of habitats.

UK native species are proposed to the western boundary buffer planting. Ornamental species are selected to the areas closer to the building and social spaces.

The species have been selected to avoid using any poisonous, thorny or in general plants unsuitable for a school environment.

SuDS Planting

Coordination with the site-wide drainage layout has indicated the areas where bioretention seeding and planting is required to improve drainage in a sustainable way.

The plant species in these areas will provide different texture to the site and introduce species that were not present before.

Rain gardens are provided around the building, in the courtyard and through the car park.



3.2 Indicative Planting Palette

Trees

Acer campestre ‘Streetwise’
Betula pendula fastigiata ‘Obelisk’
Carpinus betulus ‘Fastigiata’
Tilia cordata ‘Green Spire’

Native woodland buffer

Trees (30%)

Acer campestre
Betula pendula
Malus sylvestris
Salix caprea
Sambucus nigra
Sorbus aucuparia
Ulex europaeus

Understorey shrubs mix (70%)

Crataegus monogyna
Corylus avellana
Cornus sanguinea
Ilex aquifolium
Prunus spinosa
Rosa canina
Viburnum opulus

Shrub planting

Artemisia ‘Powis Castle’
Brunnera macrophylla ‘Jack Frost’
Cotoneaster conspicuus ‘Decorus’
Deschampsia caespitosa ‘Goldtau’
Hebe ‘Red Edge’
Hebe pinguifolia ‘Pagei’
Hebe rakaiensis
Hypericum moserianum
Lavandula angustifolia ‘Hidcote’
Pachysandra terminalis
Santolina chamaecyparissus
Viburnum davidii

Herbaceous & perennials

Ajuga reptans ‘Atropurpurea’
Alchemilla mollis
Bergenia cordifolia ‘Silberlicht’
Echinacea purpurea ‘Green Edge’
Geranium oxonianum ‘Wargrave Pink’
Heuchera ‘Key Lime Pie’
Origanum vulgare
Stachys byzantina ‘Silver Carpet’
Thymus vulgaris
Vinca minor

Ornamental grasses & ferns

Blechnum spicant
Carex testacea ‘Prairie fire’
Calamagrostis ‘Karl Foerster’
Deschampsia cespitosa
Festuca glauca
Hakonechloa macra
Ophiopogon planiscapus
Polystichum setiferum ‘Divisilobum’
Sesleria autumnalis`

Indicative planting material



Deschampsia caespitosa ‘Goldtau’



Hebe pinguifolia ‘Pagei’



Lavandula angustifolia ‘Hidcote’



Santolina chamaecyparissus



Heuchera ‘Key Lime Pie’



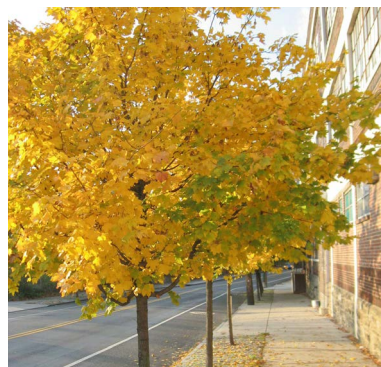
Carex testacea ‘Prairie fire’



Alchemilla mollis



Festuca glauca



Acer campestre ‘Streetwise’



Betula pendula fastigiata ‘Obelisk’



Carpinus betulus ‘Fastigiata’



Tilia cordata ‘Green Spire’

3.2 Indicative Planting Palette

Sensory garden

- Allium schoenoprasum
- Armeria maritima
- Calycanthus floridus
- Carex morrowii
- Deschampsia cespitosa
- Echinacea purpurea
- Festuca glauca
- Fuchsia magellanica
- Geranium macrorrhizum
- Hemerocallis fulva
- Lavandula angustifolia
- Nepeta faassenii
- Pennisetum alopecuroides
- Salvia nemorosa
- Sarcococca confusa
- Thelypteris phegopteris



Hedgerows

Formal

- Corylus avellana

Native mix

- 15% Acer campestre
- 20% Corylus avellana
- 20% Crataegus monogyna
- 5% Ilex aquifolium
- 5% Lonicera periclymenum
- 10% Cornus sanguinea
- 5% Rosa canina
- 10% Sambucus nigra
- 10% Viburnum opulus



Wildflower meadow grass seeding

Emorsgate Seeds - EM10 Tussock mixtures or accepted equivalent

3.3 SuDS Indicative Planting Palette

Trees

- Acer campestre
- Alnus glutinosa
- Betula nigra
- Juglans nigra
- Prunus spinosa
- Sambucus nigra

Shrubs & perennials

- Ajuga reptans ‘Blueberry Muffin’
- Aster peduncularis
- Carex oshimensis ‘Evergold’
- Deschampsia cespitosa ‘Goldtau’
- Hosta ‘Devon Green’
- Iris sibirica
- Juncus effusus
- Lythrum virginiatum ‘Dropmore Purple’
- Miscanthus sinensis
- Polystichum setiferum
- Rudbeckia fulgida ‘Goldsturm’
- Veronicastrum ‘Fascination’

Swales and attenuation basin

Emorsgate Seeds - EM8 Meadow mixture
for wetlands or accepted equivalent



4.0 External Furniture

4.1 Products Palette

01/ Curved seating

Manufacturer: **Streetlife** or accepted equivalent
Product: **Solid Skirt Curved Benches**
Dimensions: **TBC**
Slats material: **Timber Hardwood II - Virgin**
Finish/Colour: **Hot dip galvanized - powder coated (RAL TBC)**
Accessories: **Backrest**

02/ Picnic tables to external dining

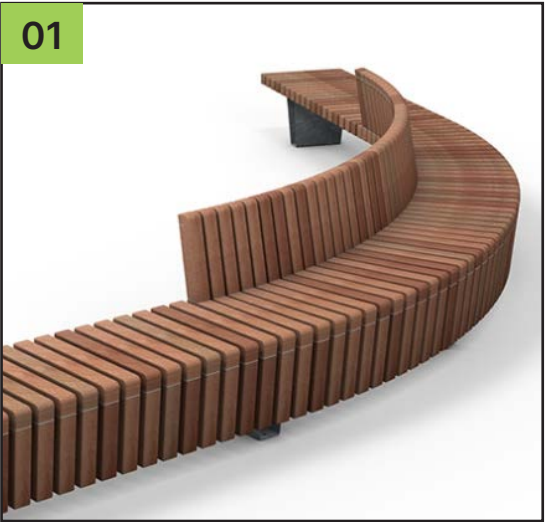
Manufacturer: **Streetlife** or accepted equivalent
Product: **Solid Crosswise Picnic Sets**
Dimensions: **TBC**
Slats material: **Timber Hardwood II - Virgin**
Finish/Colour: **Hot dip galvanized - powder coated (RAL TBC)**
Accessories: **Backrest**

03/ Individual benches

Manufacturer: **Streetlife** or accepted equivalent
Product: **Solid 6 benches**
Dimensions: **3000 × 460 × 450 mm**
Slats material: **Timber Hardwood II - Virgin**
Finish/Colour: **Hot dip galvanized - powder coated (RAL TBC)**

04/ Cube seats

Manufacturer: **Streetlife** or accepted equivalent
Product: **Solid Skirt Cubes**
Dimensions: **10 solid beams**
Slats material: **Timber Hardwood II - Virgin**
Finish/Colour: **Hot dip galvanized - powder coated (RAL TBC)**
Accessories: **Backrest to half of them**



4.1 Products Palette

05/ Cycle shelter

Manufacturer: Broxap Ltd or accepted equivalent
Product: **Coventry Gullwing Cycle Shelter (ref BXMW/COV/GU)**
Dimensions: **2500 (H) x 4880 (W) x Depending on location (L) mm**
Finish/Colour: Hot dip galvanised - powder coated (RAL TBC)

06/ Canopy to vocational workshop external space

Manufacturer: Kensington Systems or accepted equivalent
Product: **Spaceshade**
Roof: **Transparent** - no colours in panels
Size: **Indicative** as shown on drawings - final size TBC
Accessories: **Post protectors**
Notes: **Fixed on posts only, away from the building**

07/ Tree grilles

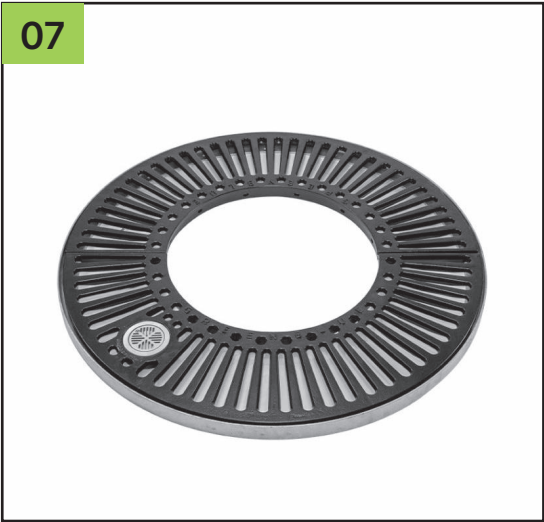
Manufacturer: GreenBlue Urban or accepted equivalent
Product: **DTS Yare**
Size: **1200 mm (diameter)**
Finish/Colour: **Hot dip galvanised & powder coated RAL 9005 (Black)**
Accessories: **Irrigation system as supplied**

08/ Tree guards

Manufacturer: GreenBlue Urban or accepted equivalent
Product: **Derwent**
Finish/Colour: **Hot dip galvanised - powder coated RAL 9005 (Black)**

09/ Triple canopy

Manufacturer: Broxap Ltd accepted equivalent
Product: **Triple Conic (ref BXTS/TRIP/C)**
Dimensions: **20 x 10 m**
Finish/Colour: **Hot dip galvanised - powder coated (RAL TBC)**
Fabric: **PVC - white**



4.1 Products Palette

11/ Bollards to entrance plaza
Manufacturer: **Broxap Ltd or accepted equivalent**
Product: **Ridge Stainless Steel Bollard (ref BX80 9004)**
Height above ground: **1000 mm**
Diameter: **101 mm**
Material: **Stainless steel**
Grade: **316**
Method of fixing: **Root fixed**

12/ Cycle racks
Manufacturer: **Broxap Ltd or accepted equivalent**
Product: **Harrogate Cycle Stand (ref BXMW/GH0)**
Material: **Stainless steel**
Grade: **316**
Method of fixing: **Root fixed**

13/ Door barriers
Manufacturer: **Broxap Ltd or accepted equivalent**
Product: **Door Barrier (ref BX14/DB)**
Material: **Stainless steel**
Grade: **316**
Infill panel: **None**
Method of fixing: **Root fixed**



4.2 Precedents



5.0 Boundary Treatment

5.1 Products Palette

01/ Self-levelling vertical bar railings to perimeter

Manufacturer: **CLD or accepted equivalent**
Product: **FlexaRail**
Height: **2400 mm**
Finish: **Hot dip galvanised - powder-coated (RAL TBC)**
Top edge protection: **Vertical bars**



02/ Weldmesh fencing to sports pitches

Manufacturer: **CLD or accepted equivalent**
Product: **Dulok Sport Rebound**
Height: **3000 mm (incl 1100mm rebound panel at lower section)**
Finish: **Hot dip galvanised - powder-coated (RAL TBC)**



03/ Self-levelling vertical bar railings to internal secure lines

Manufacturer: **CLD or accepted equivalent**
Product: **FlexaRail**
Height: **1800 mm**
Finish: **Hot dip galvanised - powder-coated (RAL TBC)**
Top edge protection: **Vertical bars**



04/ Self-levelling vertical bar railings to external classrooms

Manufacturer: **CLD or accepted equivalent**
Product: **FlexaRail**
Height: **1500 mm**
Finish: **Hot dip galvanised - powder-coated (RAL TBC)**
Top edge protection: **Bowtop**



05/ Acoustic fence to western end of Senior pitch

Manufacturer: **Contractor's choice**
Product: **Submit proposals**
Height: **To acoustic engineer's specification**

06/ Ball catching net to Senior pitch's goal post ends

Manufacturer: **CLD or accepted equivalent**
Product: **Ball Stop Netting**
Height: **To reach 6 m minimum overall height incl weldmesh fencing**
Material: **Polypropylene**

07/ Railings for edge protection

Manufacturer: **Lang + Fulton or accepted equivalent**
Product: **Novara-34**
Height: **1100 mm**
Finish: **Hot dip galvanised - powder-coated (RAL TBC)**



6.0 Roof Terraces

6.1 Proposed Roof Terraces Layout

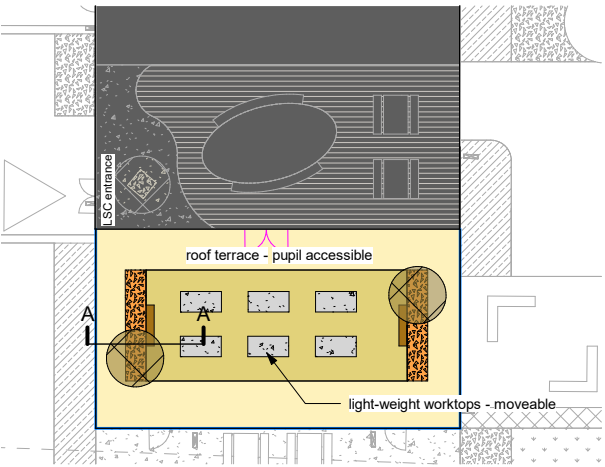
There are three roof terraces on the building, one of which is primarily focused on providing a separate break-out space to teaching staff during their lunch breaks.

The material selection for all areas is aiming to provide a relaxing yet inspiring environment for the users.

Paving is proposed for the main terraces where pupils will use for educational purposes and a combination of composite decking and synthetic grass provide the surfacing for the staff terrace.

All furniture is located away from the edges of the balustrade to reduce the risk of falling.

The planting palette proposes low maintenance species and introduces a wildflower blanket that creates a calming setting with additional educational benefits.



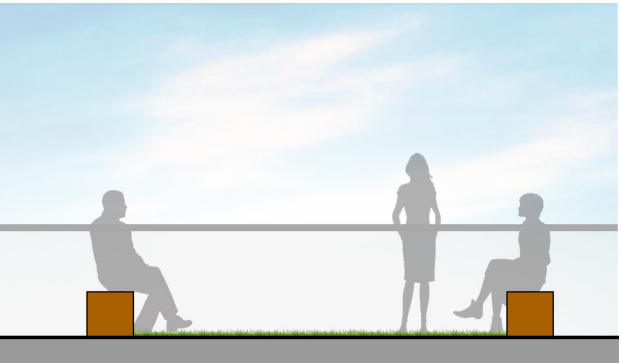
First Floor Roof Terrace



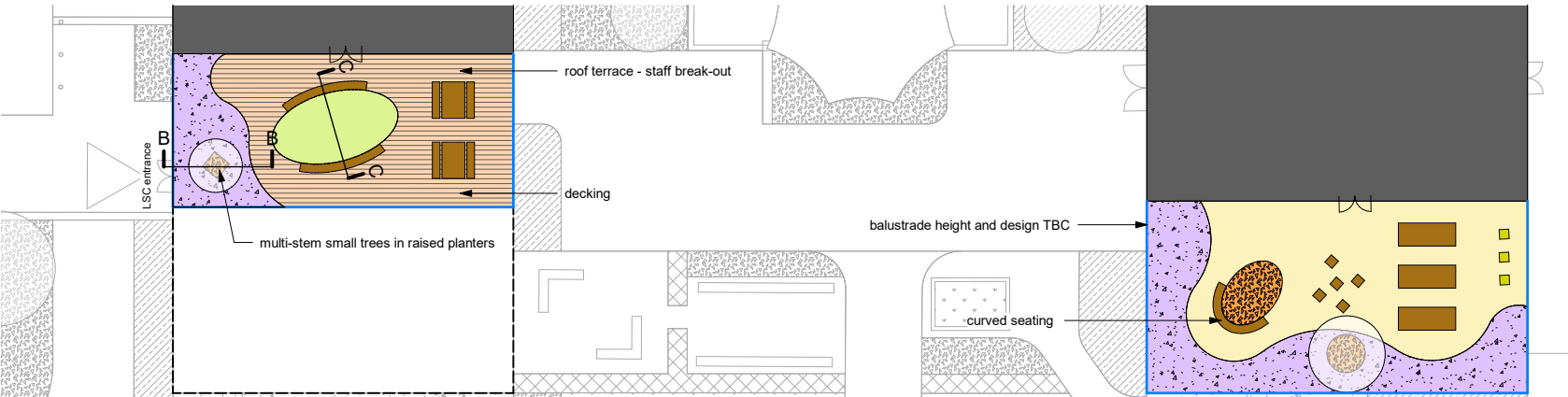
SECTION A-A



SECTION B-B



SECTION C-C



not to scale

6.2 Products Palette

01/ Curved seating to roof terraces

Manufacturer: **Streetlife** or accepted equivalent
Product: **Solid Curved Benches**
Dimensions: **TBC**
Slats material: **Timber Hardwood II - Virgin**
Frame material: **Hot dip galvanised - powder coated (RAL TBC)**
Accessories: **Backrest**

02/ Picnic tables

Manufacturer: **Streetlife** or accepted equivalent
Product: **Solid Crosswise Picnic Sets**
Dimensions: **TBC**
Slats material: **Timber Hardwood II - Virgin**
Frame material: **Hot dip galvanised - powder coated (RAL TBC)**
Accessories: **Backrest**

03/ Individual benches

Manufacturer: **Streetlife** or accepted equivalent
Product: **Solid 6 benches**
Dimensions: **3000 × 460 × 450 mm**
Slats material: **Timber Hardwood II - Virgin**
Frame material: **Hot dip galvanised - powder coated (RAL TBC)**

04/ Cube seats

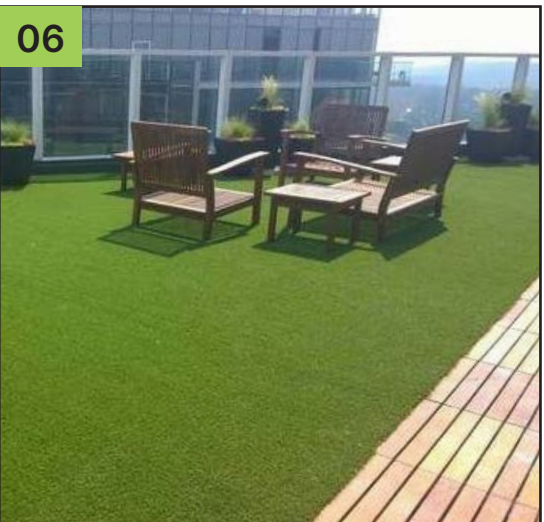
Manufacturer: **Streetlife** or accepted equivalent
Product: **Solid Skirt Cubes**
Dimensions: **10 solid beams**
Slats material: **Timber Hardwood II - Virgin**
Frame material: **Hot dip galvanised - powder coated (RAL TBC)**
Accessories: **Backrest**

05/ Raised planters

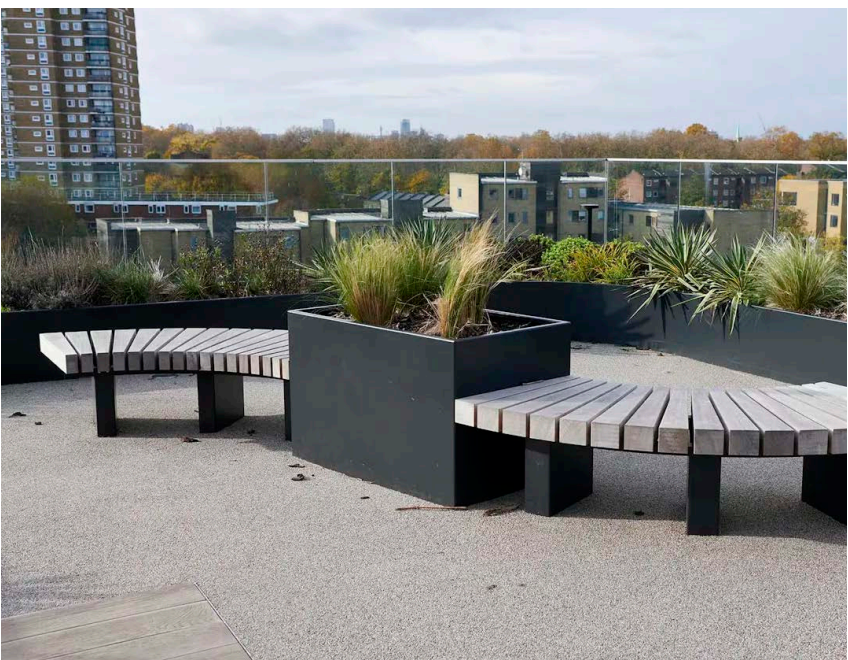
Manufacturer: **LuxUnique Ltd** or accepted equivalent
Product: **Steel Powder Coated Raised Beds**
Dimensions: **TBC**
Finish: **Hot dip galvanised - powder coated (RAL TBC)**

06/ Synthetic grass

Manufacturer: **Contractor's choice**
Product: **Submit proposals**



6.3 Precedents



Austin-Smith:Lord

Enhancing Life & Environments By Design

Bristol
40 Berkeley Square
Bristol BS8 1HP

+44 (0)117 239 0500
bristol@austinsmithlord.com

Glasgow
25 Bothwell Street
Glasgow G2 6NL

+44 (0)141 223 8500
glasgow@austinsmithlord.com

Cardiff
18 Park Place
Cardiff CF10 3DQ

+44 (0)2920 225 208
cardiff@austinsmithlord.com

Liverpool
Port of Liverpool Building
Pier Head L3 1BY

+44 (0)151 227 1083
liverpool@austinsmithlord.com

austinsmithlord.com

Austin-Smith:Lord Ltd is a Limited Company
registered in England & Wales with regis-
tered
number 11773049