Residential Development at Leopardstown Road, Sandyford, Dublin

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RMDA LANDSCAPE ARCHITECTS + CONSULTANTS

Landscape Architects & Consultants

LANDSCAPE CONCEPT

On behalf of: DLR

February 2025

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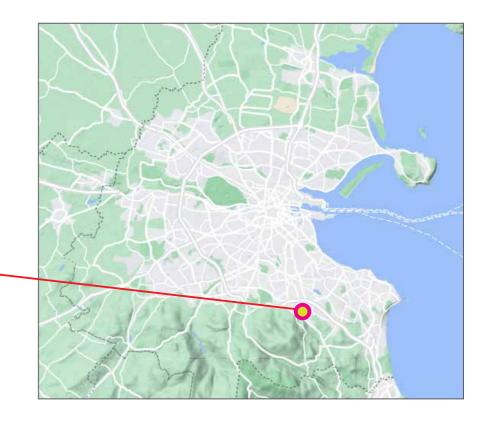
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1. SITE CONTEXT





Subject Lands





2. DESIGN PROPOSAL



Landscape Mood Board

























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Open Space Categories





Connectivity Routes



A key objective of the scheme to reduce car dependency by providing high quality pedestrian and cycle networks. The provision of green infrastructure integrates the new development

The increased permeability of the development it's context is important to connect residents to





Arboricultural Impact





EXISTING TREES

EXISTING HEDGEROWS





REMOVAL HEDGEROWS





Arboricultural Impact





RETAINED TREES

PROPOSED TREES

RETAINED HEDGEROWS



PROPOSED HEDGEROWS

Play Amenity Plan









- Development of social skills, cooperation, and problem-solving abilities
- Stimulates imagination and creativity more than traditional playgrounds
- Adapts to natural topography and environment for sustainability



Structured Play Space:

- Promotes physical development, coordination, and motor skills in children
- Provides a safe and engaging play environment for children within the residential development



Calisthenics Workout Spaces:

- Allows residents to engage in calisthenics exercises for physical fitness
- Encourages a healthy and active lifestyle within the residential community



Communal Play Spaces:

- Fosters social interaction, community bonding and sense of belonging among residents
- Creates shared spaces for children and families to play and connect

- Natural Play Space
- Calisthenics Space



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Natural Play Elements

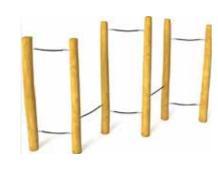
Junior Play - Under 5 years of age

All surfaces manufactured and installed to EN 1176 and all play equipment manufactured and installed to EN1177











Junior Play - Over 6 years of age

All surfaces manufactured and installed to EN 1176 and all play equipment manufactured and installed to EN1177.







Natural Play Equipment

Natural playgrounds help children to develop other beneficial behaviors in addition to physical skills. These behaviors include social skills, cooperation, and the ability to solve problems.





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Boundary Treatment Plan





Parkland Railing 1.8m high



Parkland Railing 1.2m high



Timber Noise Barrier Fencing 2m high



Stone Wall Pier Varies in Height according to wall

3. LANDSCAPE FEATURES3

Proposed Planting - Shrubs









Bergenia cordifolia

Libertia grandiflora











Aucuba japonica

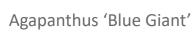
Prunus 'Otto luyken'

Lavandula angustifolia

Hypericum hidcote

Astellia 'Silver Spear'







Kniphofia 'Royal standard'



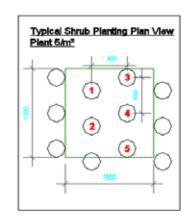
Nerine bowdenii

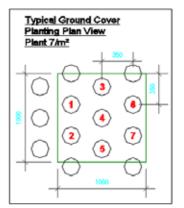


Sedum spectabile



Miscanthus sinensis





Proposed Planting - Hedgerows



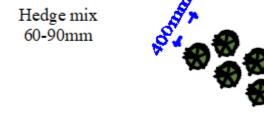












Hedgerow Planting Detail

Ilex aquifolium Crataegus monogyna

Prunus lusitanica

50 x 50 stake tied with a single rubber gut tie.
2 rows @ 500mm centres -400mm apart,

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Proposed Planting - Wildflower



Yellow Rattle Rhinanthus minor



Ribwort plantain Plantago lanceolata



Red clover Trifolium pratense





Meadow buttercup Ranunculus acris



Lady's-bedstraw Galium verum



Cowslip Primula veris



Oxeye daisy Leucanthemum vulgaris



Bird's-foot trefoil Lotus corniculatus



Common knapweed Centaura nigra



Common sorrel Rumex acetosa



Burnet saxifrage Pimpinella saxifraga



Autumn hawkbit Leontodon autumnalis



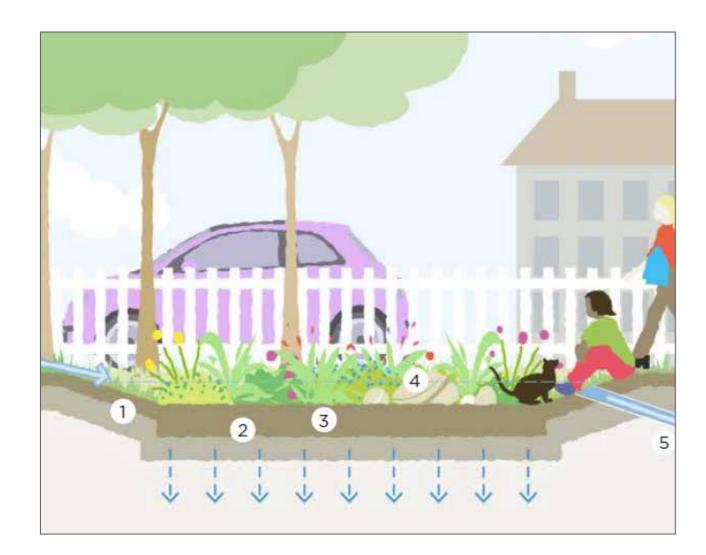
Rough hawkbit Leontodon hispidus

Note: The Wildflower Meadow will need to be cut once in Autumn (Late August/Early September) with a tractor and mower. Leave the mowings for a few days to allow seed to drop to the ground. Then it should be baled and bales removed.

RMD A



SUDs - Rain Garden





Rain Garden Locations

Raingardens are designed to collect and manage reasonably clean water from roofs and low pollution risk drives and pathways. They are generally installed where community or private maintenance is available to upkeep these attractive features.

Key aspects of raingarden design include:

- 1. gentle side slopes with water collected at the surface
- 2. a free-draining soil, sometimes with an underdrain to avoid permanent wetness
- 3. a minimum of 450mm improved topsoil with up to 20% coarse compost
- 4. garden plants that can tolerate occasional submersion and wet soil this includes most garden plants other than those particularly adapted to dry conditions
- 5. an overflow in case of heavy rain or impeded drainage.

Hard Landscape Palette





Furniture Palette



Wooden seating

Play Equipment Palette



Play Equipment

- Wooden Log
- Stepping logs
- Balance Beam
- Mound & Slide
- Bird's nesT
- Rope nest swing



Calisthenics Equipment

- incline press
- decline bench
- dip bench
- in shape step up





Hard Landscape Surfaces

Surface Palette

In-situ Surfaces







Brushed exposed agrregate concrete

Paths

Surfacing for high impact areas across the development



Ballylusk Dust Path



Play Surfacing

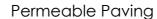
Paving Palette

Feature Paving

Light coloured flags to maximum light w/ contrasting paving blocks





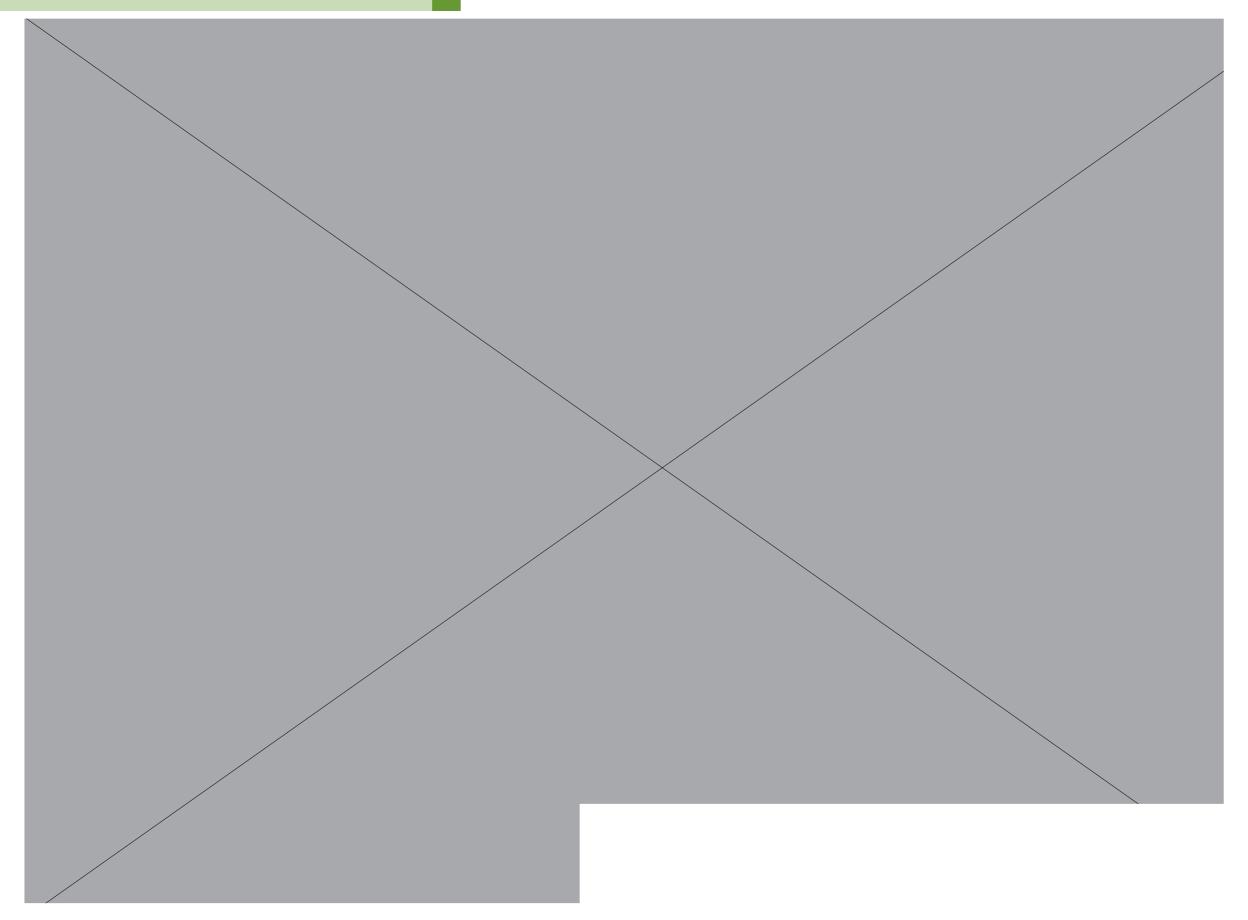




Feature Paving

4. DETAIL DESIGN

Soft Landscape Details







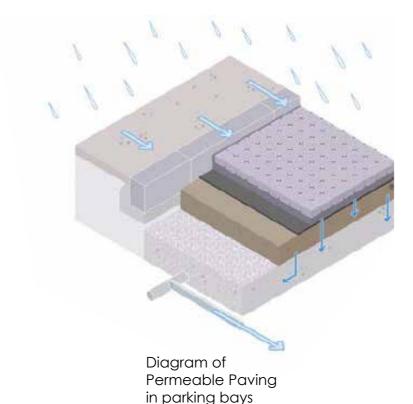
Permeable Paving

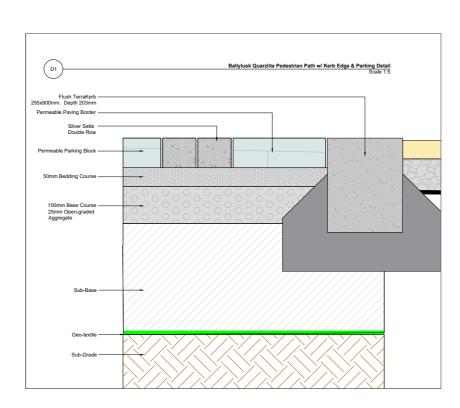
Permeable surfaces direct rainfall straight into a SuDS structure for cleaning and storage or infiltration into the ground. Utilising:

- 1. pervious surface to allow water through the pavement surface
- 2. an open-graded sub-base layer that provides structural strength to the pavement with about 30% by volume available for water storage. The subbase designed structurally and hydraulically.
- 3. to avoid silt washing off adjacent landscape areas and leading to localised surface clogging., the following measures have been considered:
- -sloping adjacent landscape areas away,
- -using paved or turfed surfaces to adjacent areas,
- -proposing soil in adjacent planting beds at min. 50mm below the top of kerb withdense ground cover to bind the soil.



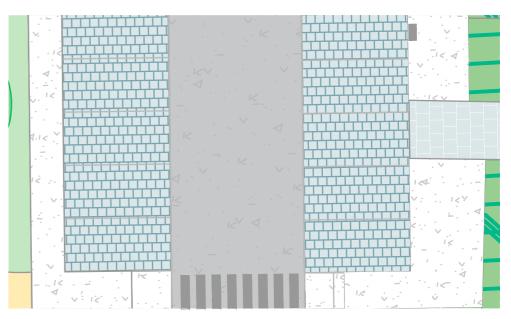
Permeable Parking Pavers







Permeable parking surfaces



Permeable Parking Pavers





Drainage - Green / Sedum Roof

- The root system: Sedum has very shallow roots, a key requirement for an extensive green roof, considering the modest depth of the substrate layer.
- Sedum is also drought-resistant
- Sedum needs relatively little nutrients and maintenance compared to other types of plant
- Sedum is very resilient to diseases and insects
- Sedum is also very adaptable: due to its capacity to adapt its metabolic system in periods of drought, it can survive in extremely dry conditions where other types of plants would die. And furthermore, Sedum recovers remarkably quickly as soon as water becomes available again.



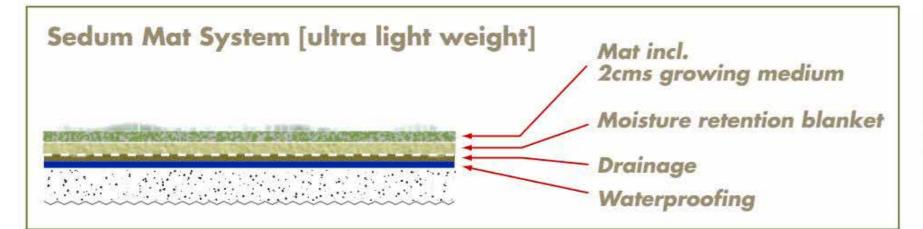
Green Roof/Sedum Roof



Option 1.



Extensive Vegetation (Sedums, etc.)
Growing Media
Filter Fabric
Moisture Retention / Drainage Panel
Insulation
Root Barrier
Protection Course and Capillary Break
Waterproofing Membrane (hot rubberized asphalt depicted)
Substrate (concrete deck depicted)



Option 2.



Extensive Vegetation (Sedums, etc.)
Growing Media
Filter Fabric
Moisture Retention / Drainage Panel
Insulation
Root Barrier
Protection Course and Capillary Break
Waterproofing Membrane (hot rubberized asphalt depicted)
Substrate (metal deck with gypsum board depicted)

MULTIDISCIPLINARY DESIGN TEAM



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