Parkgate Street

Landscape Design Report January 2020

MITCHELL + ASSOCIATES

desire a

Context

Policy review

Spaces:

Public space access Site context and description Public Realm Needs and considerations Landscape design strategy Landscape Cad Masterplan Existing trees Public open space Residential space Streetscape Riverscape Roofgardens

Strategies:

Sociability Play and Playfulness Sustainability Lighting Sustainability: SuDS and Biodiversity

Softwork:

Planting Reinforced Grass Climbing plants Planter beds

Hardwork

Paving and landscape elements Compacted Gravel Balustrade Play

Comparison:

Benchmark Spaces Spatial Mitchell + Associates have prepared this Landscape Design Statement as part of the proposed residential development at Parkgate Street, Dublin.

The report is intended to be read in conjunction with the submitted drawings and the other consultants' documentation.

Policy review

The landscape treatment for the proposed Development amenity uses are not compromised and existing biodiver- **SI18**: To require the use of Sustainable Drainage Sysis derived from the planning and urban design strategies opment Plan, and other National Guidance.

Dublin City Council Development Plan

The site in question has been zoned as follows: Z5 To consolidate and facilitate the development of the urban meadows and urban woodlands. central area, and to identify, reinforce, strengthen and **GI27**: To minimise the environmental impact of external basins, ponds and wetlands. protect its civic design character and dignity. Z6 To provide for the creation and protection of enterprise and facilitate opportunities for emplyment creation. Z9 To preserve, provide and improve recreational amenity and open space and green networks. The Z9 zoning refers to the riverside part of the site.

Chapter 10 Green Infrastructure, Open Space & Recreation

Strategic Approach that aims to create sustainable connectivity between green areas and to provide for the recreational and amenity needs of the population.

Although all Policies and objectives outlined in the Development Plan are relevant at some level to each and every proposed development, the following are the most the National Transport Authority. pertinent to this site.

GI4: To co-ordinate open space, biodiversity and flood management requirements, in progressing a green infrastructure network.

GI5: To promote permeability through our green infrastructure for pedestrians and cyclists.

GIO2: To apply principles of Green Infrastructure devel- structure opment to inform the development management process in terms of design and layout of new residential areas, projects.

GIO4: To improve pedestrian and cycle access routes and emissions. to strategic level amenities while ensuring that ecosystem functions and existing amenity functions and existing ject to environmental assessments.

sity and heritage is protected and enhanced.

contribute to the appreciation of landscape and natural Drainage Works: heritage.

nance and facilitate bio-diversity by encouraging the development of linear parks, nature trails, wildlife corridors, - The holding of water in storage areas through the con-

lighting at sensitive locations to achieve a sustainable - The slow-down of the movement of water. balance between the needs of an area, the safety of walkspecies such as bats.

GI30: To encourage and promote tree planting in the planning and development of urban spaces, streets, roads and infrastructure projects.

Chapter 08 Movement & Transport

The Development plan outlines a Green Infrastructure **MT11**: To continue to promote improved permeability for both cyclists and pedestrians in existing urban areas in line with the national Transport Authority's document Building Regulations - Part M Access and Use 'Permeability - a best practice guide'. Also, to carry out permeability and accessibility study of appropriate areas Building Regulations - Part K Stairways, Ladders, Ramps in the vicinity of all Luas, rail and BRT routes and stations, in co-operation with Transport Infrastructure Ireland and

M12: To improve the pedestrian environment and promote the development of a network of pedestrian routes All-Ireland Pollinator Plan 2015-2020 which link residential areas with recreational, educational and employment destinations to create a pedestrian en- Dublin City Parks Strategy vironment that is safe and accessible to all.

Chapter 09 Sustainable Environmental Infra-

SI6: To promote the protection and improvement of the business/ industrial development and other significant aquatic environment, including through specific measures for the progressive reduction of cessation of discharges

SI8: To mitigate the effects of floods and droughts sub-

tems in all new developments, where appropriate, as set and principles outlined within Dublin City Council Devel- **GI8**: To protect and enhance views and prospects which out in the Greater Dublin Regional Code of Practice for

- The infiltration into the ground through the development GI25: To make provision for habitat creation/mainte- of porous pavement such as permeable paving, swales and detention basins.

struction of green roofs, rain water harvesting, detention

ing and cycling routes and the protection of light sensitive **Other National Guidance documents that have** influenced the design proposal/Strategy are as follows:

Sustainable Urban Housing: Design standards for New Apartments 2018

Sustainable Residential Development in Urban Areas 2009

and Guards

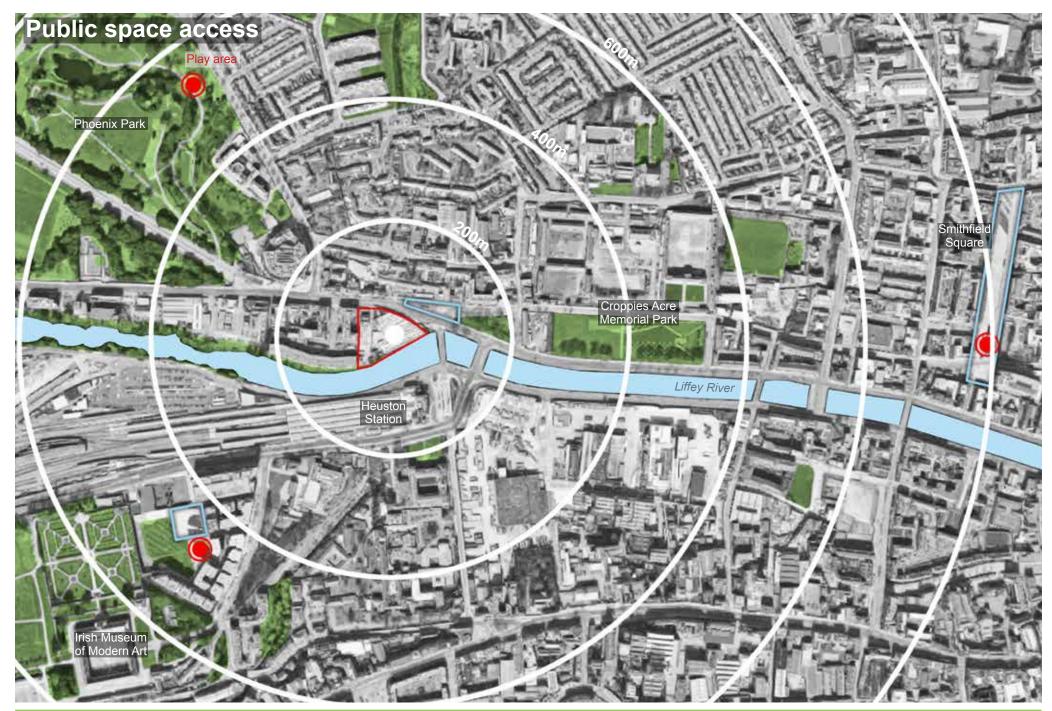
Design Manual for Urban Roads and Streets (DMURS)

Play Space Guidelines 2007

Ready, Steady, Play! A National Play Policy Dublin City Play Plan 2012 - 2017

National Landscape Strategy for Ireland 2015-2025

Dublin City Tree Strategy 2016-2020 Your City Your Space Public Realm Strategy 2012



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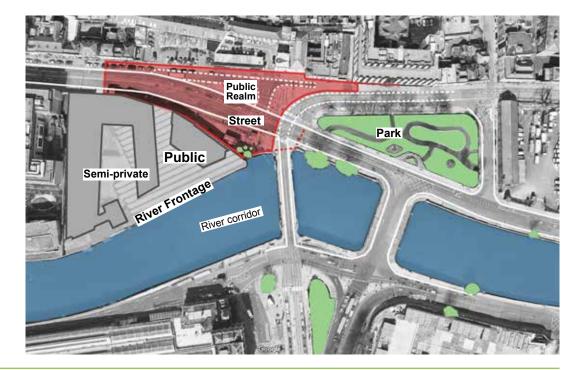
Site context and description

The site is located at an important location in the city: The Phoenix Park is approx. 200m to the west, which the River Liffey meets Parkgate St at Sean Heuston is a major green open space including a local play Bridge and Croppies Memorial Park, leading on to area about 400m from the site. The grounds of the Wolf Tone Quay and Croppies Acre. The circa 0.82 ha Irish Museum of Modern Art with its formal gardens triangular site is bounded to the northern and southern sides by this confluence of the river and Parkgate across the river. Closer by is Heuston South Quarter Street, The land rises gently towards the west, and with its emergent civic space and play area. sits beneath the escarpment that rises dramatically to the north beyond Parkgate St. The roads and foot- The river is tidal up to Islandbridge, and so the scene paths from this point eastwards run parallel to the river on the river at this location changes dramatically with forming Dublin's Quays. Remnants of guay or mooring structures are evident beside the tall stone boundary wall at the river edge. This edge is visible from the mud flats are revealed, active with gulls and cormoopposite bank at Heuston Station, and forms an interesting riverside boundary in stone and brick, terminating in a round turret downstream and a square tower station. and two riverside buildings upstream. At the eastern end, between the turret and a small painted brick sub station is a small piece of fenced in ground that is barely noticeable in the cityscape except that it has 4 semi mature Lime trees (Tilia spp). Homeless people camp out in tents in this unobtrusive space. To the west, the site is book-ended by Parkgate Place, a development of offices and apartments. The site is enclosed on Parkgate Street by a high wall, which is part of the industrial structure that occupies most of the site. Views in to the site are only glimpsed through the stone archway which is a protected structure. The site also contains the now boarded up structure of Kingsbridge House. The Heritage Report (By ARC) gives a comprehensive description of the origins of the site, its uses and buildings.

There is a public riverwalk upstream of the site, associated with Parkgate Place. Beyond that the character of the river corridor begins to change to one with less overt urban influence.

and meadows are approx. 600m to the south west

the tides. At high tide it can be used for recreation, when people can be seen in training skiffs; at low tide, rants, as well as another confluence, as the River Camac joins the Liffey at the opposite quay at Heuston



Public Realm context

Public Realm













Needs and considerations

The landscape design evolved from a series of practical considerations and needs stemming from the end users of the development, the day to day management & accessibility while at all times being cognisant of the relevant building regulations. There are no trees on the site, but there are 4 semi mature Lime trees (Tilia spp) in DCC land to the east, and are incorporated into the proposed permeable river edge. (see arborist report).

The development is intended for users consisting of a likely diverse demographic and as such it is necessary to design a sense of place, with stimulating and vibrant spaces supporting a combination of amenity uses that help to build a sense of community, many of which relate to the building uses.

Universal access is another consideration in the design process. The site has to address the needs of the development's residents, workers and visitors, to promote social interaction and to generate an integrated community in order for this development to become a successful neighbourhood.

The sustainability of the development and in particular the approach to address surface water run-off by means of Sustainable Drainage Systems (SuDS) is a key component in how the design of the landscape has evolved with the design team.

There are opportnities to incorporporate some cultural heritage interpretation in the scheme.



Landscape design strategy

The overall aim of the landscape design is to create a high quality attractive environment for people who use the scheme whether they live work or visit there. The landscape design also responds to the landmark architectural design at this key location in the city. The strategy to open the site and make it permeable to the river generates a bright south facing civic space and river walk, effectively connecting Parkgate St with the Liffey through the otherwise impermeable site. A second, semi public, space the residential courtyard - also links Parkgate Street with the river connecting through the protected archway on the street to the river buildings.

The design layout, building on the architectural orientation, is intended to mitigate wind on the ground plane, making the already southerly facing spaces more comfortable. Seating faces in different directions, in shade or sun, with views outwards or inwards to give choice depending on the weather.

A series of roofgardens step up through the scheme providing additional amenity to the residents, with views out across the locality and sheltered spaces to maximise the potential of the gardens.

Early sketch design

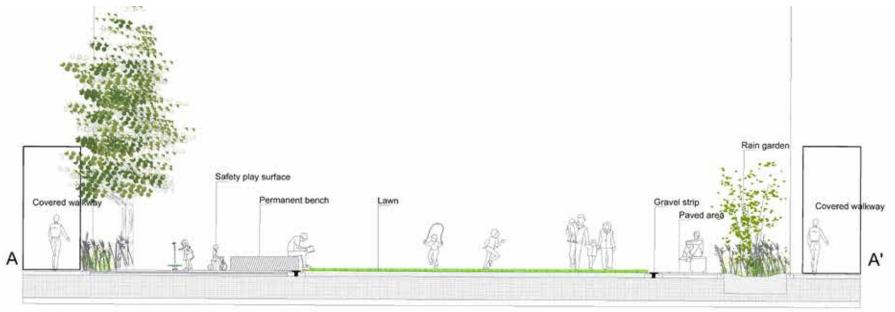


Landscape Masterplan

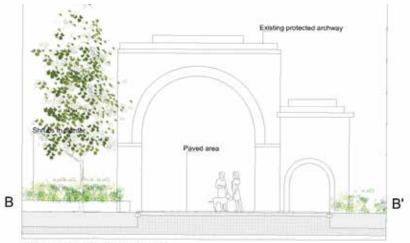


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Sections



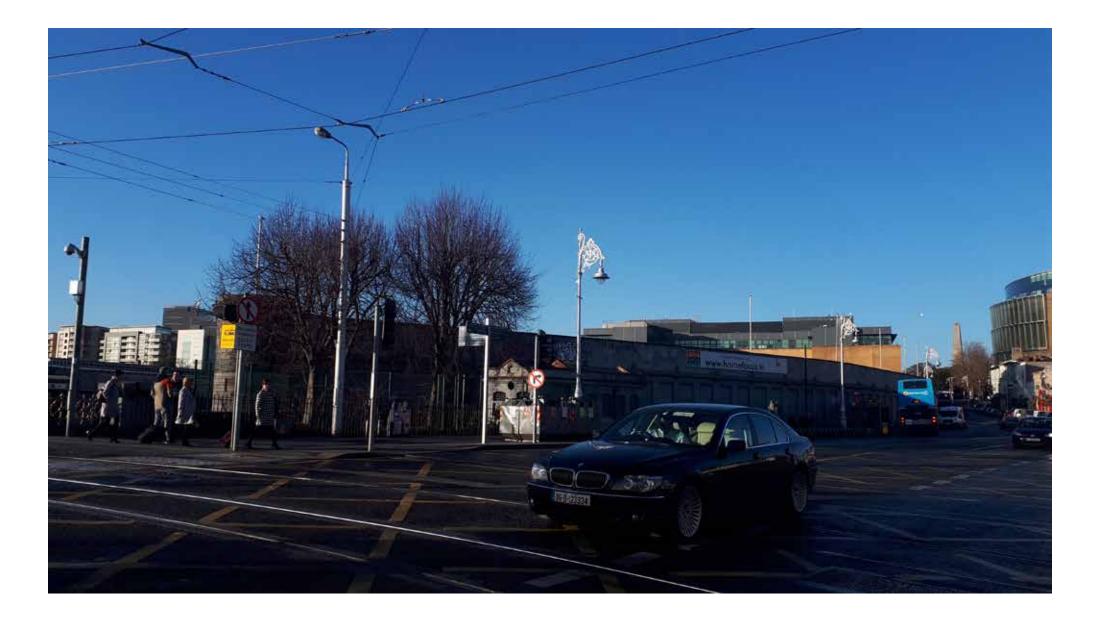
RESIDENTIAL COURTYARD SECTION



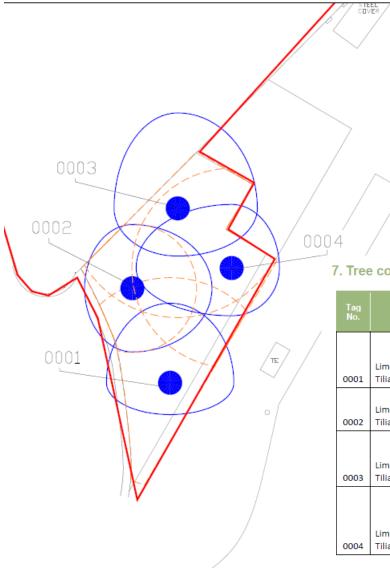
EXISTING PROTECTED ARCHWAY SECTION



Existing trees



Tree survey



7. Tree	condition	analysis	& preliminary	recommendations
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Tag No.	Species	Age Category	General Condition	Comments	Preliminary Recommendations	Landscape and Arboricultural Category	Useful Life Expectany
0001	Lime cultivar Tilia cordata cv	Early- mature	Good	Trunk with a lean toward north-east due to competition from neighbourig tree. Lean not significant with crown vertical in orientation. Upper canopy relatively well dveloped with no visible defects.	No action necessary	B2	30-40
0002	Lime cultivar Tilia cordata cv	Early- mature	Good	Trunk co-dminant from 3m with a wide union between stems. Upper canopy relatively well developed with no visible defects.	No action necessary	B2	30-40
0003	Lime cultivar Tilia cordata cv	Early- mature	Good	Trunk multi-stemmed from 3m with tight unions between stems. However unlikely to be significant at present. Canopy toward west has been reduced in the past but overall crown relatively well developed.	No action necessary	B2	30-40
0004	Lime cultivar Tilia cordata cv	Early- mature	Good	Upper canopy topped to west over neighbouring building reducing the trees visual quality. Remaining crown relatively well developed. Trunk co-dominant from 2m with a tight union and included bark between stems.	No action necessary	В2	30-40

Т

Public open space

The public open space is a plaza that connects Parkgate Street with the river, and therefore has a southerly aspect. It provides a setting for the buildings that can be used in a casual, social and incidental way, with opportunities to be programmed for specific activities.

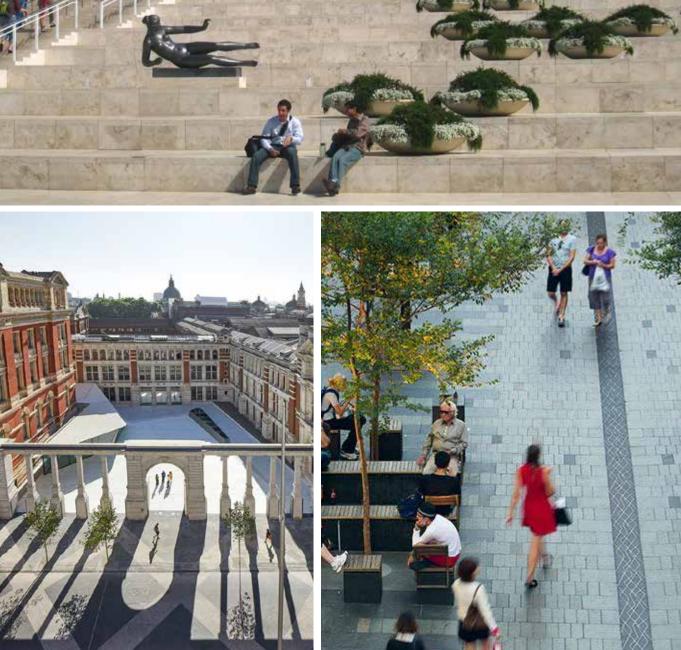
Four semi mature Lime trees are located outside the site to the eastern corner, within a railed space. It is intended, with the agreement of DCC Parks Dept., to retain the trees and open this space as an access along the river wall towards the main plaza space.

The space is carpeted with a high quality paving unit with stone detailing forming a triangular patterning that responds to the geometry of the site.

The treatment of the river wall reveals its character and detail, and opens views out to the river and Heuston Station beyond. It also functions as a sheltering element to the riverside space.

A key tree is located in the space which acts as a visual pivot, seen from across the river and from Parkgate Street. It is located in a planted area which also provides seating and a raingarden. Both this raingarden and the ones in the residential courtyard filter water and discharge to the river in an animated way – demonstrating the workings of a sustainable drainage system.

Other seating and planted elements populate the space, and their triangular form gives diverse opportunities for sitting in shade or sun, with views outwards or within the space.





Catenary lighting is proposed across the plaza in order to free up the ground plane and to form some visual containment across the height of the space.



Residential Space







The arrangement of the residential blocks around the courtyard space allows for a communal garden that serves the residents, many of whom have a view over the space. The open space is conceived as a green space, in contrast to the public plaza. The outdoor amenity uses are supported by the functions of the adjacent buildings; the outdoor space allows spill-out from the building, and the colonade gives shelter to the edges.

This open space will provide a secure and safe outdoor setting. It consists of an open grass plane, with a birch grove, structural planting, flowering mixes to encourage pollinator species, raingardens, seating and a play area for toddlers and young children. Cast iron columns and beams from the original factory are re-used as a pergola, modulated to fit with the proposed buildings facades. This structure emphasises the route of the linear path and raingardens leading towards the river. These elements all combine to generate a pleasant and inviting garden.

A discrete area associated with the river building allows a south facing view across the river.





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Streetscape





- Merging with plaza
- Existing 'heritage' light columns
- Existing trees in porous surfacing
- Loading Bay
- Bus stop
- Bike racks



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Roofgardens





Strategy: Sociability



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Strategy : Play and Playfulness

TODDLER PLAY AREA - COURTYARD







OLDER PLAY - STREET AND NEIGHBOURHOOD PARKS



PLAYFULNESS - FORM AND LIGHT



Strategy : Lighting



Circular catenery light: Public Sq







3m Pencil light (Hess RIva) Rsidential Sq

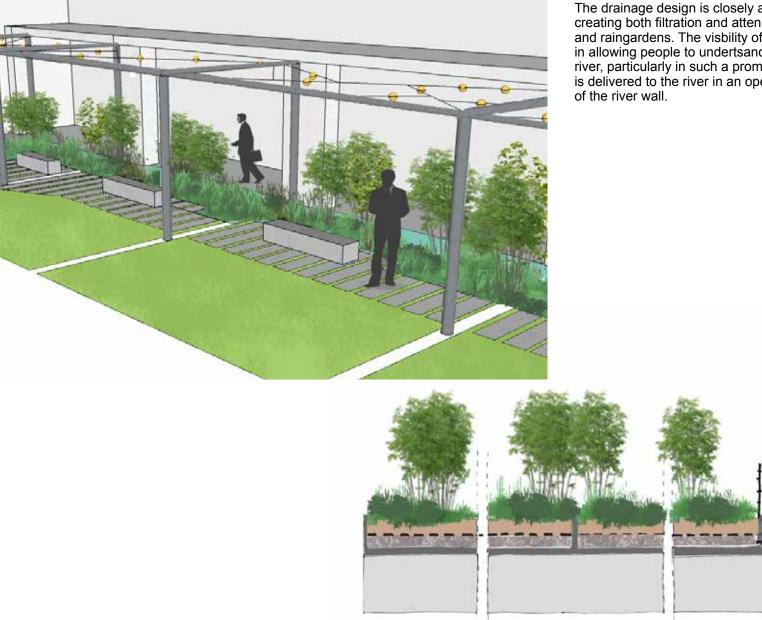
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Strategy : Sustainability : SuDS & Biodiversity



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Raingardens and Sustainale Drainage



The drainage design is closely aligned with the landscape design, creating both filtration and attenuation in the form of green roofs and raingardens. The visbility of drainage is an important element in allowing people to undertsand the path of water towards the river, particularly in such a prominant riverside location. The water is delivered to the river in an open spout, which becomes a feature of the river wall.

Typical Section

Raingarden

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Softworks

The softworks relates to visual amenity and biodiversity in tree selection, planting beds, raingardens and green roofs. The planting palette has been selected for the creation of a high visual amenityand environmentally appropriate to the new context, based on the National Pollinator Plan.

A large specimen Lime tree (Tilia spp) is selected for each of the ground spaces, and supplemented with smaller tree planting including the River Birch grove (Betula nigra)

Seasonal interest through leaf shape and texture, leaf colour change, spring flowers, winter bark colour etc will contribute towards creating distinct character areas in the tree planting structure.

The plant species list will be a mix of native species and ornamental species for high biodiversity value, for seasonal interest and for a wide variety of species adapted to the variable site conditions of both bright sun and semi shade.

The plant selection will incorporate the following characteristics:

Varying flower and leaf colour; bulbs, herbaceous, deciduous and evergreen shrubs and deciduous garden scaled trees; plants that attract insect life. Native and non-native species are used to achieve the objectives of biodiversity, visual amenity and maintenance requirements. Planting will have seasonal interest.



Specimen tree planting



Tree pit and paving (DCC footpath)

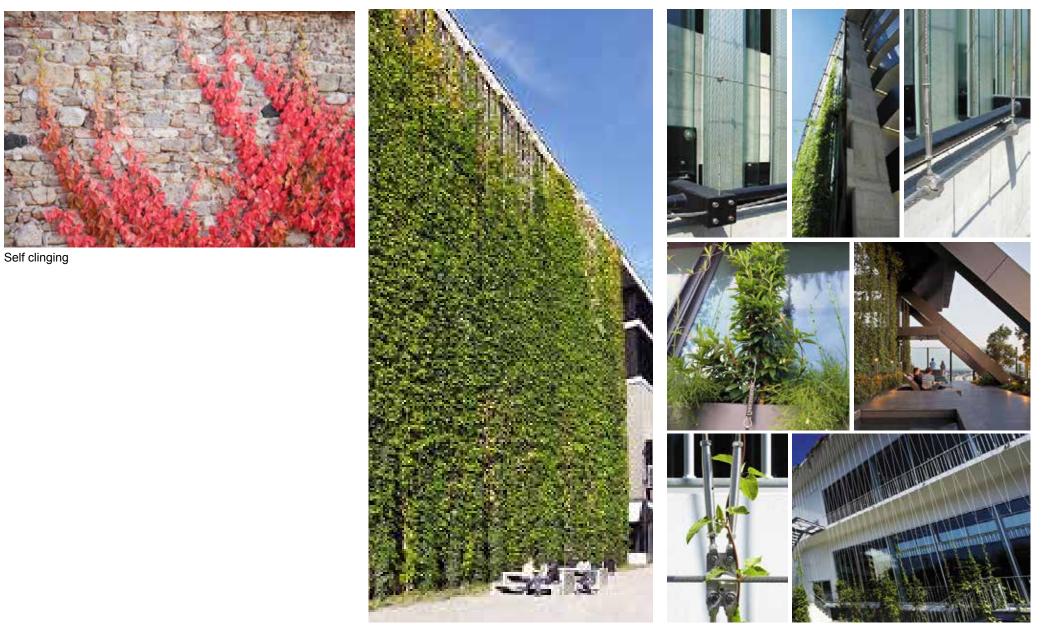
Planting beds 45-600mm soil depth

Roofgarden planters - specialist lighweight soil 'Enrich'



Reinforced grass Fibreturf or similar

Climbing plants



Wiring systems (Jakob Inox)

Materials: Planter Beds

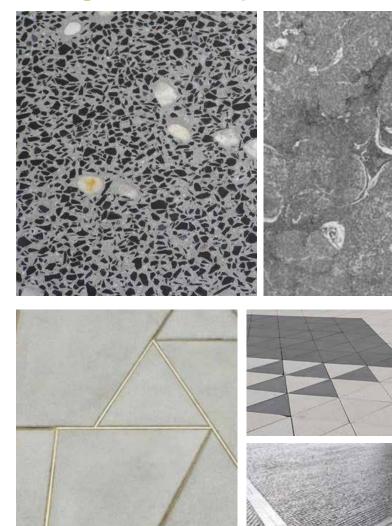


In situr block planters with stone and timber cladding (Ground floor open space and raised raingardens)



Prefabricated steel planter boxes (roofgardens) (based on OMOS S21 planters)

Paving and landscape elements



Concrete aggregate and pre cast concrete

Stone detailing

Paving Materials

Inlay detailing

Compacted gravel (Ballylusk) at residential Birch grove and existing trees.

The hardworks are designed as high quality paving with stone detailing, and elements pick up on the architectural detailing and finishes. A range of public seating is provided some as benches and others as seats with arms and backrests. Contemporary railings (some retractable) and gates approx 1.5m high define the public space and residential courtyard, with bespoke railings to fit the protected archway.



Brushed Stainless Steel bike racks



Brushed Stainless Steel bins



Contemporary railings defining spaces



Materials: Play



Play House for toddlers





Balance Equipment

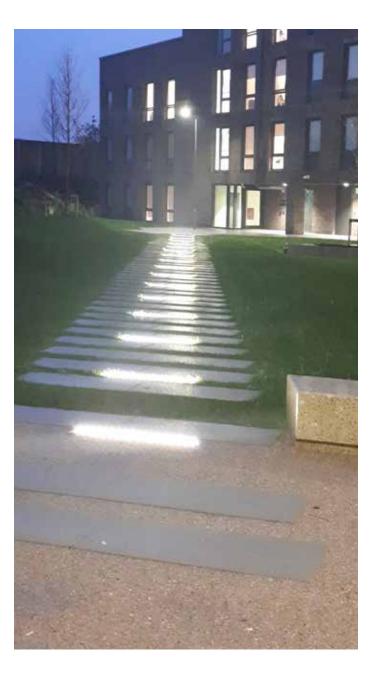


Materials: Compacted Gravel & Paving in Grass

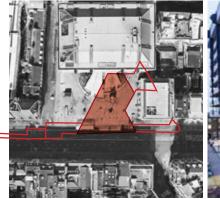


COMPACTED GRAVEL

Ballylusk chippings



Comparison and spaces: Spatial



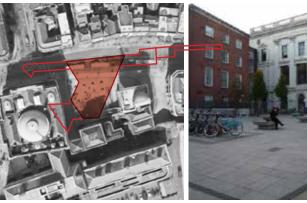


Central bank about 1500m2





Wolf Tone square about 2000m2



Bernardo square about 800m2

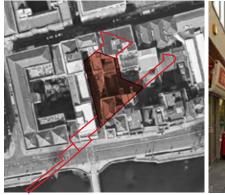


Public space: 1561m2 (Core space 812m2)

50m

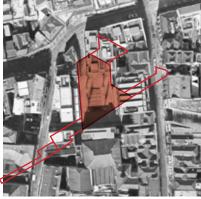
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Comparison and spaces: Spatial

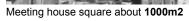




The last supper 200m2









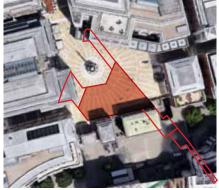
Temple bar square 1000m2



Public space: 1561m2 (Core space 812m2)

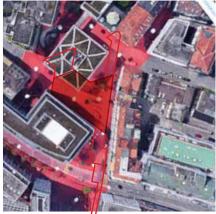
0 50m

Comparison and spaces: Benchmark





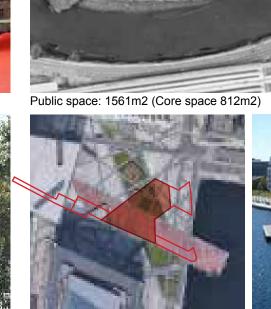
Paternoster sq London about 2000m2



Roter Platz St Gallen Switzerland about 1000m2



Kings cross London about 2500m2



Grand Canal Dock about 6000m2





50m

0

Notes