



The Barbican Estate

Phase 2 Podium Refurbishment Public Consultation Webinar

20th October 2021

Agenda



- 1. Setting the Scene
- 2. A Unique Opportunity
- 3. A Rich Heritage
- 4. Site Analysis
- 5. Design Concept
- 6. Design Strategies
- 7. Summary
- 8. Next Steps
- 9. Summary







1

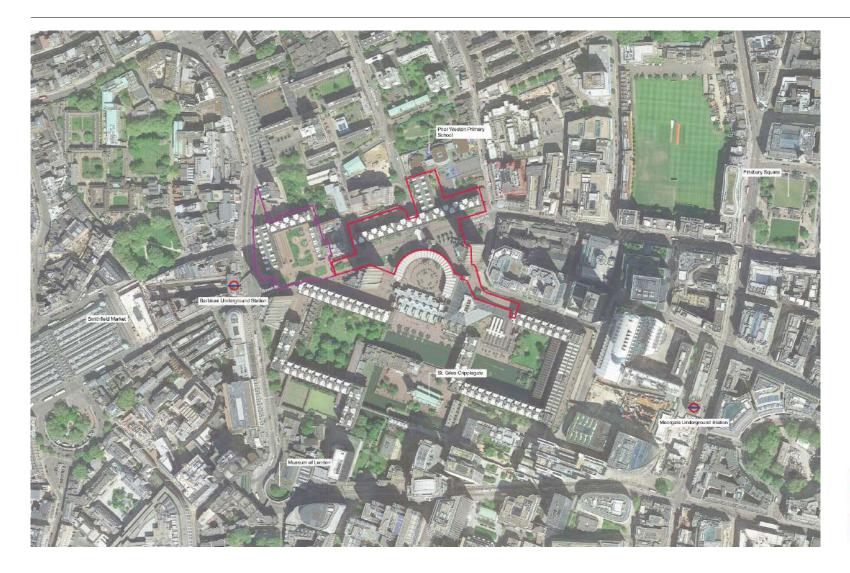
Setting the Scene

Location and Justification

Location







Phase 2 Study Site Area

Phase 1 (Complete)

Outline of Project Justification





The Issues

A symptom of its age, rainwater is leaking into the interior spaces beneath the podium deck.

There are also several areas of disrepair evident in broken paving tiles, broken street furniture and chemical leeching from walls, paving and planting areas.

What Needs to be Repaired

To repair the waterproofing, all public realm and planting areas within the phase 2 boundary will need to be removed entirely. This will facilitate the essential replacement of waterproofing and podium build-up elements such as insulation, screed or paving construction.

The public realm and planting areas will subsequently be replaced once this repair work ahs taken place.









The Podium Landscape



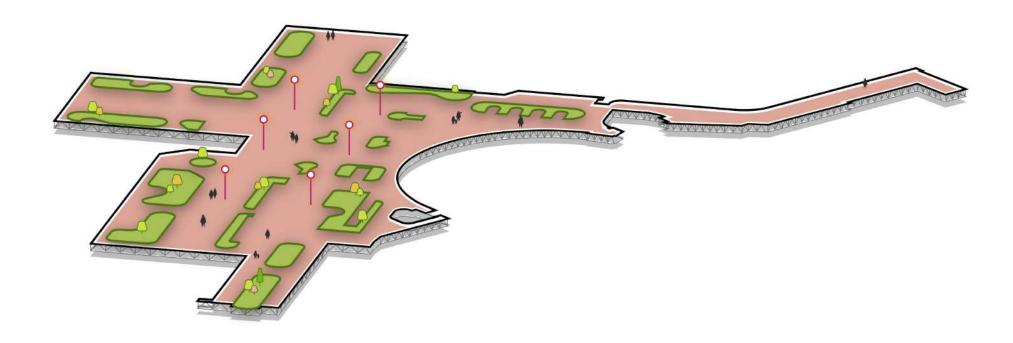






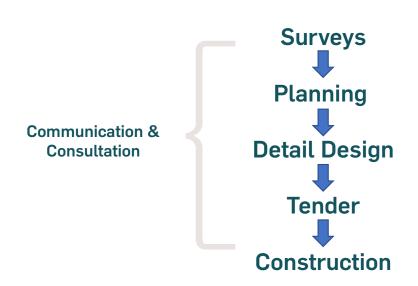
Project Complexity

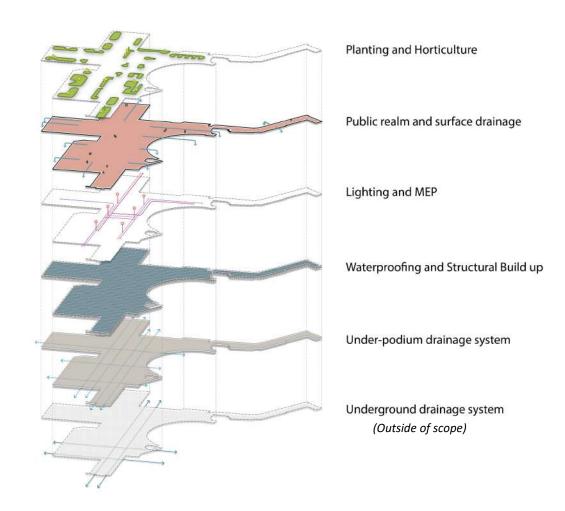




Project Complexity











2

A Unique Opportunity

Enhancing the Barbican Podium Landscape

- Increasing Biodiversity in line with the City of London's Biodiversity Action Plan (BAP)
- Working towards the goals set out within the City of London's Climate Action Strategy
- Assessing and improving amenity, safety and accessibility provision for the residents and visitors alike
- Conserve and manage the Barbican's iconic urban form in line with the listed building management guidelines

Policy and Guidance Framework



Utilising 3 key local policy initiatives to guide the design.



City of London

Climate Action Strategy

2020-2027



City of London

Biodiversity Action Plan



Historic England

Listed Building Management Guidelines

Plus many other key planning policy and guidance on local polices ad green infrastructure

Combining Places for People with Places for Nature





Combining Spaces for People with Spaces for Nature

- Creating green spaces with multiple functions to provide better water management, reduce the urban heat island and improve health and wellbeing
- Creating habitat and a diversity of human experiences in woodland, grassland/steppe habitats and wetlands.
- Spaces for recreation and fitness
- Solitary and Socially Restorative spaces
- Cultural landscape uses
- Food growing and biophilic engagement with green spaces
- A range of perceived territory from semi-private to public
- Urban greening of public spaces

















3

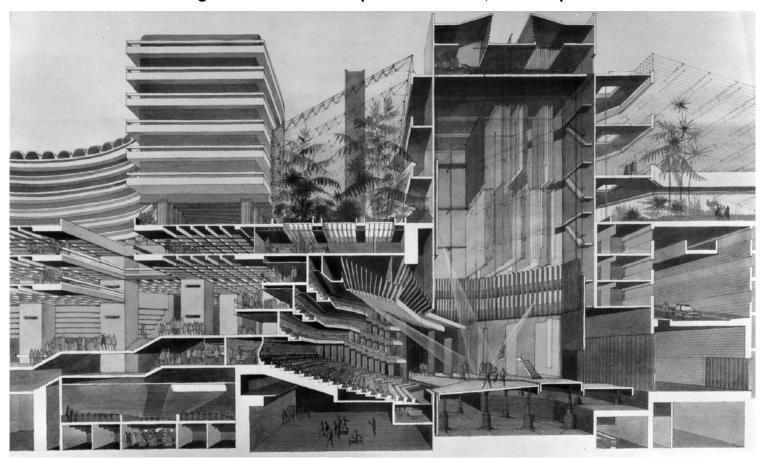
A Rich Heritage

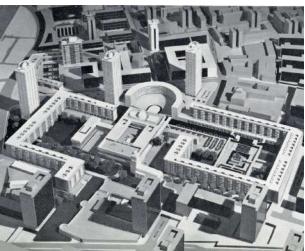
Protecting the Essence of the Barbican while Looking to the Future

Chamberlin, Powell & Bon



The original vision aimed to create a monument to hope in architecture, and was centred around the belief that the things we build can help us live better, more equal and vibrant lives.







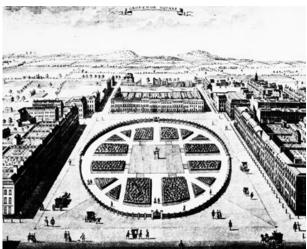
London's Garden Squares and The Barbican

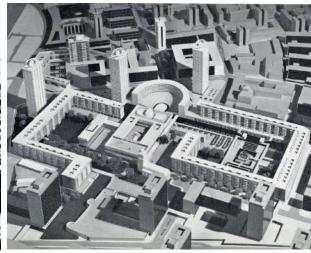




Strong Edges, Open spaces and Intricate Surroundings

The original Barbican vision took inspiration from London's Garden Squares. The terraced housing forms their boundaries and nature is introduced into their centres using a layer of intricate, densely planted spaces surrounding a central, open grassland or lawn.













The Podium, Janet Jack and 20th Century Landscapes





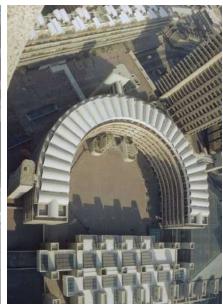
Janet Jack and Modern Landscape Architecture

Janet Jack was an influential 20th century landscape architect who worked alongside architects such as Neave Brown to bring nature, play and a sense of serenity to inner city London's residential landscapes.

Jack's work on the Barbican's podium, like many works of 20^{th} Century landscape architecture, distilled and abstracted nature into its component parts.

Jack created shapes that grew out of the harsh, hard; providing a range of experiences and allowing space for wildlife.















Architectural Scale and Human Experience



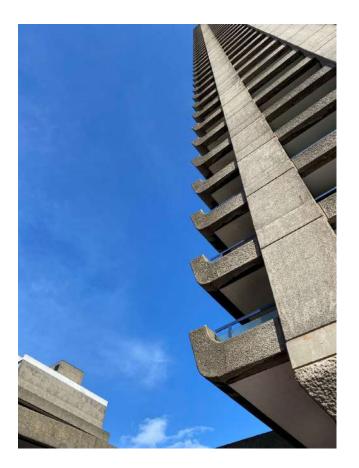


A Three-tiered Approach

"The architectural scale of the scheme, therefore, progresses in three stages from the modest and often **intimate layer** at ground level, through the larger scale of the higher layer of **long terrace terraces**, **reminiscent of the London squares**, to the **strong vertical dimension** expressed by the towers. Throughout, a principal aim in the design has been to create an appearance of clarity without monotony."







Intimate ground level missing —

Larger scale terraces

Strong vertical dimension

Architectural Scale and Human Experience



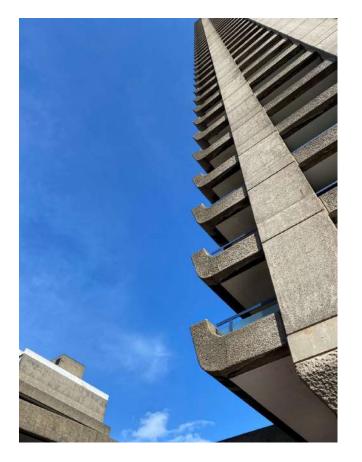


A Three-tiered Approach

"The architectural scale of the scheme, therefore, progresses in three stages from the modest and often **intimate layer** at ground level, through the larger scale of the higher layer of **long terrace terraces**, **reminiscent of the London squares**, to the **strong vertical dimension** expressed by the towers. Throughout, a principal aim in the design has been to create an appearance of clarity without monotony."







Restore Intimate ground level ———

Larger scale terraces

Strong vertical dimension





4

Site Analysis

The Barbican's Defining Character



- Frobisher Crescent
- Janet Jack's 1980's podium landscape
- Architectural detailing
- Lakes and features

Circles and Curves

Curvilinear shapes have a strong presence at the Barbican giving a distinctive character to the space. Curves can be seen in landscape elements such as bullnose, plant beds, staircases, columns and vents. Indoors, curves are shown in ceiling patterns, windows and doorframes.

Sweeping circular forms provide not only structural integrity but symbolise completeness of form and flow in both the buildings and the landscape.

In the landscape, circles and curves are used to provide a variety of enclosure and openness; an abstraction of nature at the human level.









The Barbican's Defining Character





Planting

The Barbican's microclimates enable a broad range of plant species to thrive:

Shady areas feature a variety of woodland trees and shrubs.

Sunny exposed areas allow for perennial meadows to flourish providing visual interest all year round.

The Conservatory offers ideal conditions of temperature and humidity for exotic species to develop and immerses the visitor in a utopian world.

Water bodies at the Lakeside Terrace and Beech Gardens provide the media for wetland species to grow.

More recently, the planting seen at Beech Gardens by Nigel Dunnett represents a $21^{\rm st}$ century way of thinking about plants in designed landscapes. The planting here is directed at biodiversity and habitat structure while soil mediums work to attenuate water.





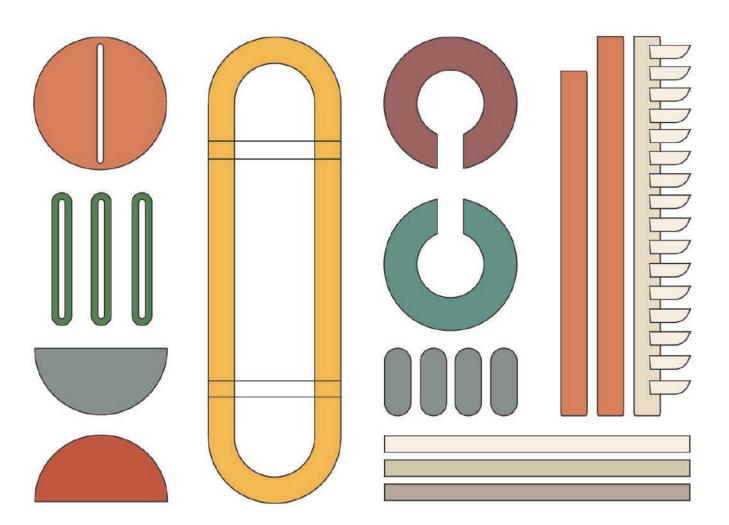
The Barbican's Defining Character





Distilling nature and built form into Component Parts

Following Modernist and Brutalist principles to distill nature and built form into their raw component parts recognising how function, atmosphere and form are created with simplified shapes. A clear presentation of this creates a distinct, immersive experience.

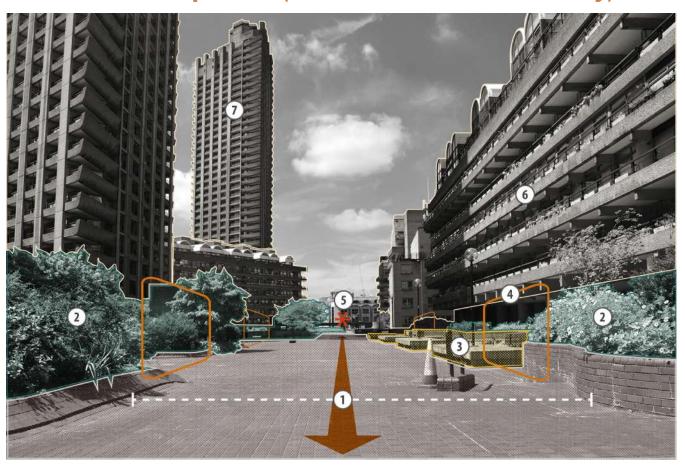


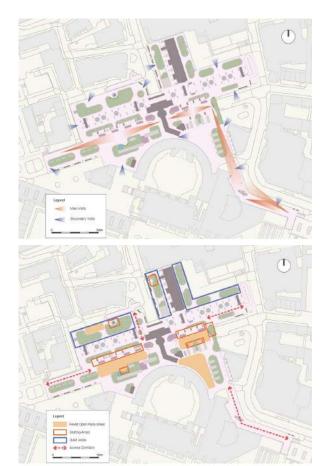
Serial Vision





Assessing the amenity and legibility of a journey through across Barbican podium (small extract from full study)

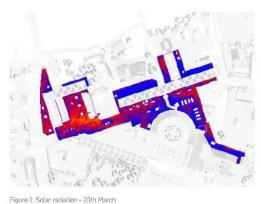




Microclimate Analysis (extract)



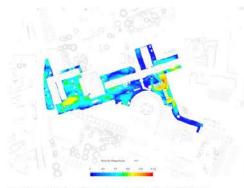


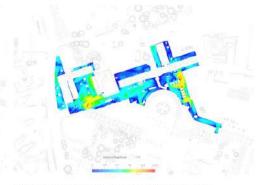


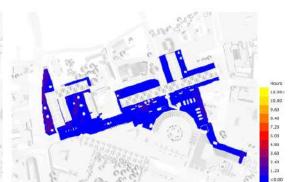
Barbican
Exhibition
Holl 2

Areas of concern

Frebisher
Crescent







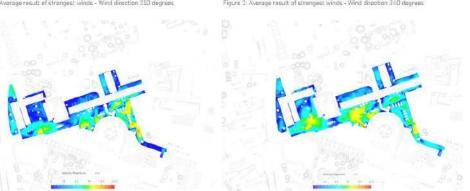


Figure 3: Solar radiation - 22nd September

Figure 4: Solar radiation - 21st December

Figure 2: Solar radiation - 21st June

Figure 3: Average result of strongest winds - Wind direction 270 degrees

Figure 4: Average result of strongest winds- Wind direction 300 degrees



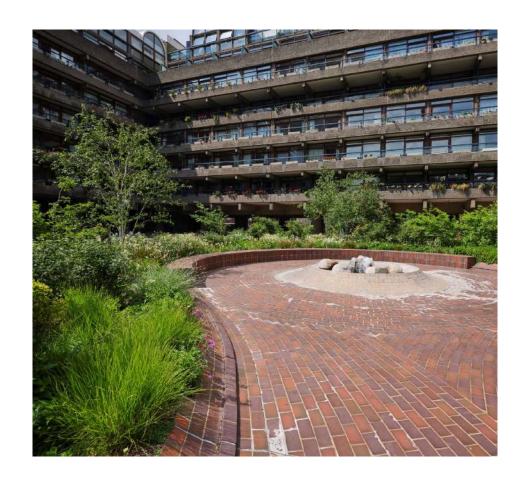


Design Concept

Design Aims



- Help create a more climate-resilient urban landscape, working towards the goals set out within the City of London's Climate Action Strategy 2020-2027.
- 2. Allow the **repair of the podium** structure to control or eradicate the existing issues of water leakage and reinstate or improve the podium space to provide the same or better public amenity
- **3. Maximise amenity** functionality and value and create a green, restorative environment at the heart of the City of London
- 4. Create a **Safe and Accessible** environment where all people feel welcome, improving both perceived and actual safety and accessibility.
- Conserve the essence of the Barbican's heritage, enabling longevity and enjoyment of the Barbican Estate for generations to come
- 6. Create an **attractive and legible public realm** with a unique character and range of immersive experiences.
- 7. Create a **Maintainable and Financially viable** public space

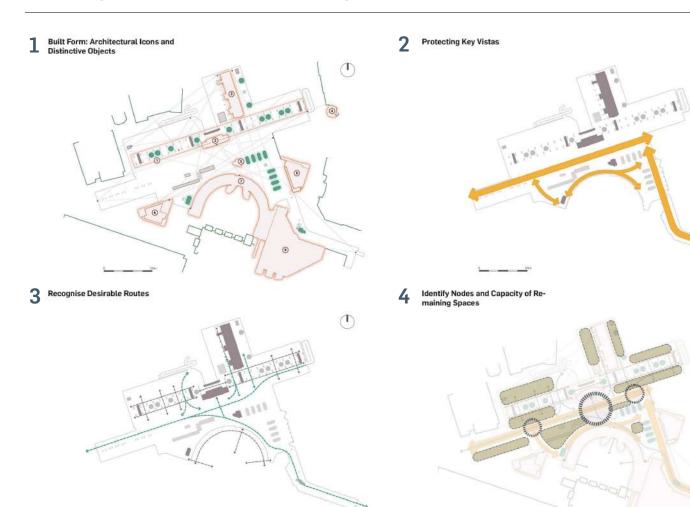


Vision



Design Story: Strategic Principles





Following the removal of the link building, we can:

- 1. Highlight and protect architectural icons and distinctive objects within the podium landscape
- 2. Protect key vistas

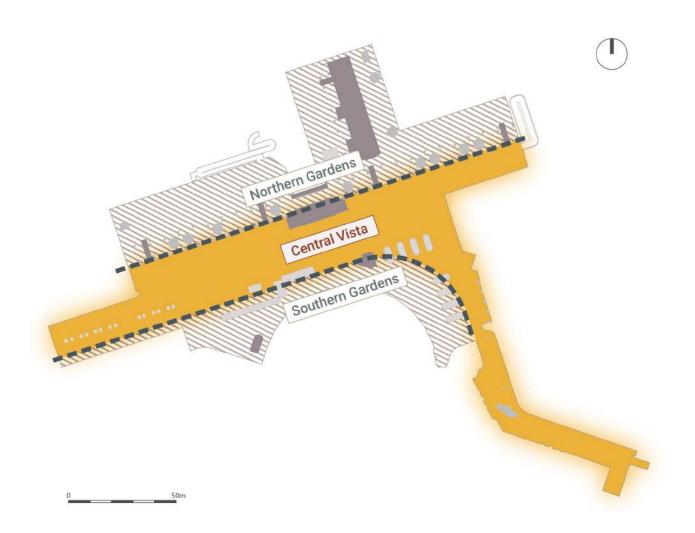
 \bigcirc

- 3. Recognise desirable routes and visual connectivity away from vistas
- Identify the nodes that emerge and utilise remainder spaces for biodiversity and amenity



Space Hierarchy





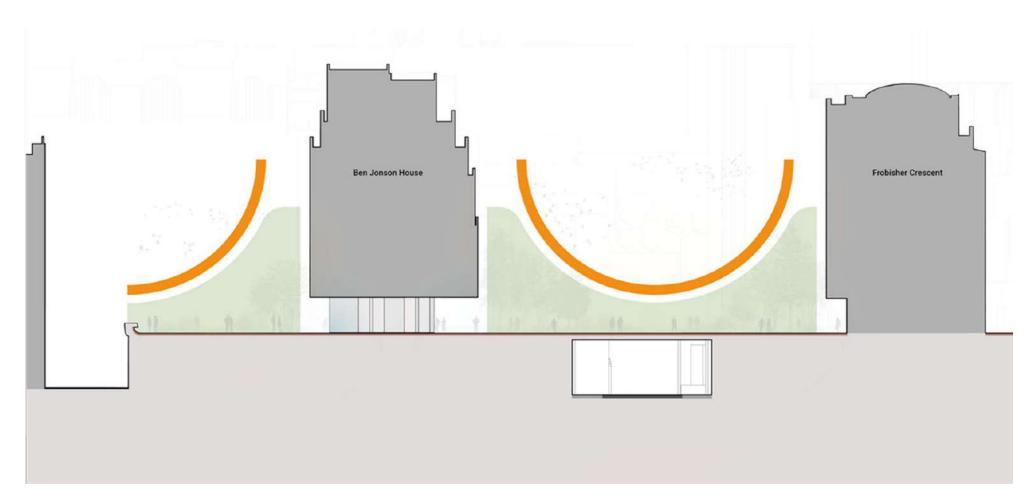






Woodland-Edge Structure Diagram





Woodland-Edge Habitat Structure





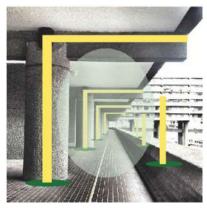


Design Language Exploration





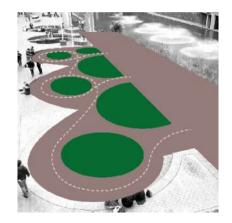
















Character Images









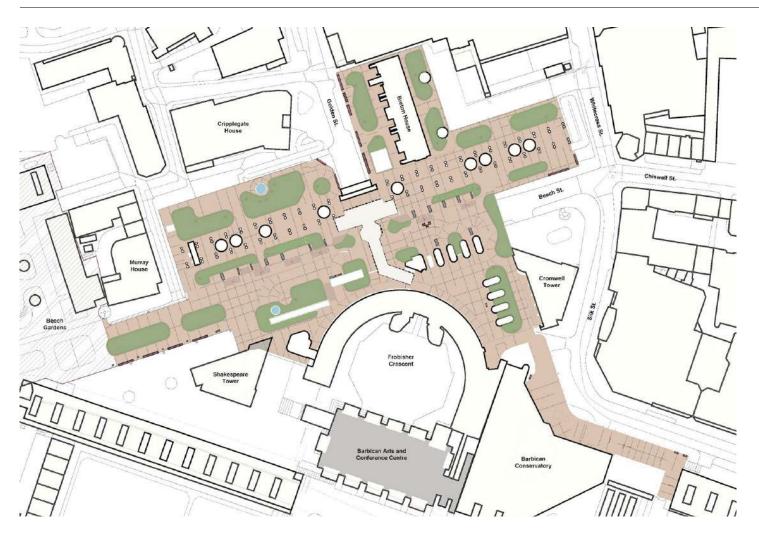






Existing Landscape Plan



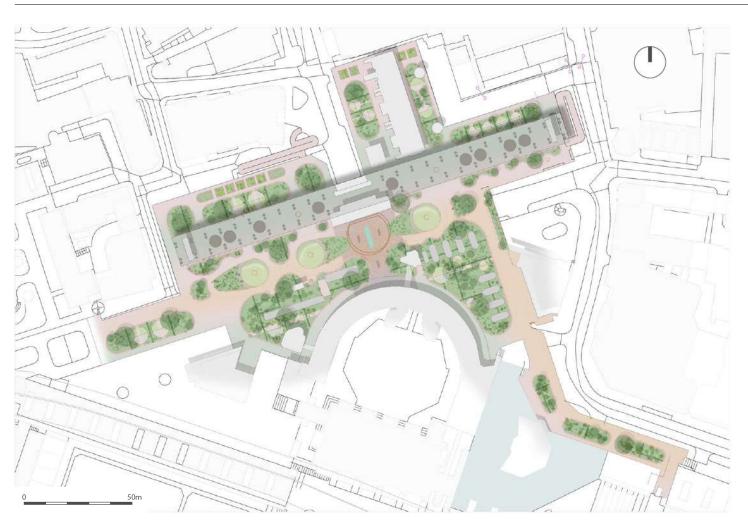


Concept Layout Notes:

- The design takes inspiration from the garden squares of London that informed other parts of the Barbican Estate landscape;
- The **main vista** is broken up into 3 main 'garden squares' with central open space and more intimate, intricate spaces surrounding this;
- The vista is formed of wide, open spaces and generous, legible walking routes;
- The northern and southern gardens are characterised by lush, part sun part shade planting with an intricate network of social and solitary spaces and circulatory routes
- A stratified woodland-to-grassland habitat ecotone is established across the podium;
- Tree planting is used to bring structure to the ground level of the podium and create a woodland edge habitat;
- The architecture and distinctive concrete objects of the podium are framed by trees and set against naturalistic planting a juxtaposition that emphasises their brutalist character.

Concept Layout: The Woodland Edge



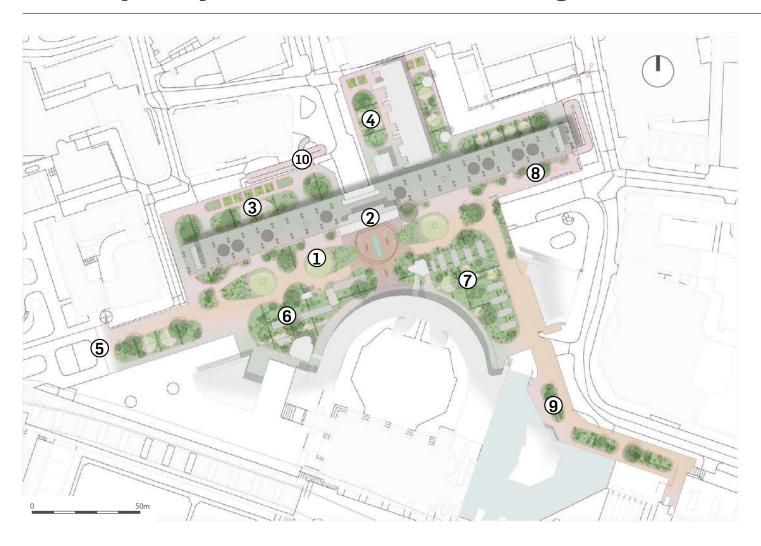


Concept Layout Notes:

- The design takes inspiration from the garden squares of London that informed other parts of the Barbican Estate landscape;
- The main vista is broken up into 3 main 'garden squares' with central open space and more intimate, intricate spaces surrounding this;
- The vista is formed of wide, open spaces and generous, legible walking routes;
- The northern and southern gardens are characterised by lush, part sun part shade planting with an intricate network of social and solitary spaces and circulatory routes
- A stratified woodland-to-grassland habitat ecotone is established across the podium;
- Tree planting is used to bring structure to the ground level of the podium and create a woodland edge habitat;
- The architecture and distinctive concrete objects of the podium are framed by trees and set against naturalistic planting a juxtaposition that emphasises their brutalist character.

Concept Layout: The Woodland Edge





Concept Layout Notes:

- Central vista conserving the openness of the podium and improving legibility of the space, broken up into 3 garden squares
- Removal of Link Building creates central breakout plaza for exhibition halls, improving step-free access
- **3** Gardens north of Ben Jonson House create tranquil, solitary spaces alongside communal planters
- Breton House gardens with lush planting and communal planters with semi-private feel
- Seamless transition from P1 to P2 with naturalistic planting areas
- **6** Woodland edge planting, seating areas and informal paths to the west of Frobisher Crescent
- Atmospheric woodland understorey frames the concrete vent structures to the east of Frobisher Crescent
- **8** Legibilty improved towards the Whitecross Street ramp Access
- The conservatory gardens connect the lush indoor planting character with the outdoors public realm
- Better routes to northern access ramp improves connectivity for people coming from the North₃₅ e.g. Richard Cloudesley School

Concept Layout: The Central Vista







Sketch Visualisation: The Central Vista







Sketch Visualisation: The Northern Gardens







Sketch Visualisation: The Southern Gardens



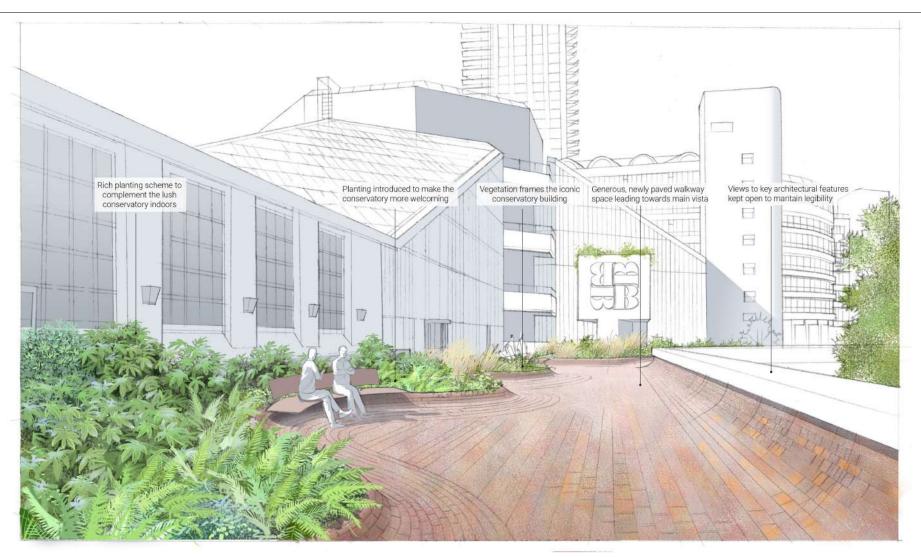




Concept Layout: The Conservatory Gardens



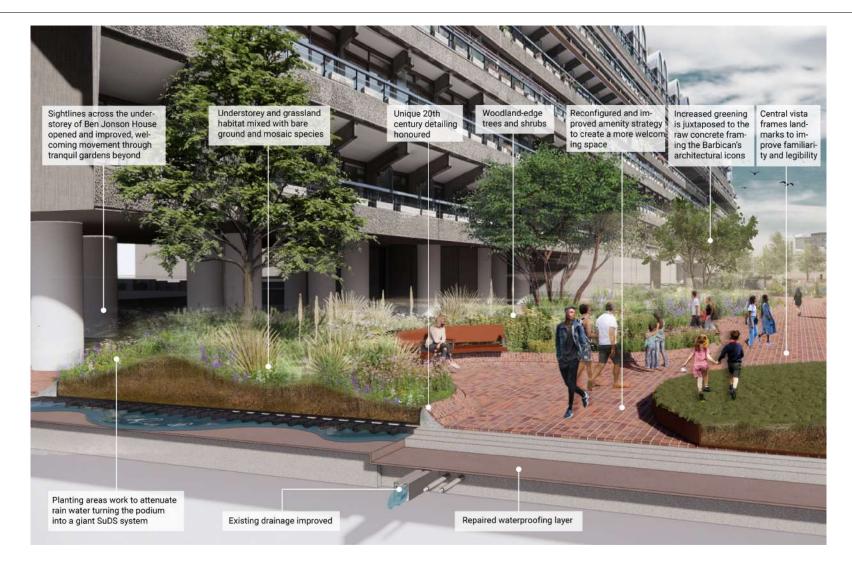




Hidden Innovation: Biodiversity and SUDS







Project Outcomes





More than 80% increase in green area



Improve Accessibility for All



Increased Bio-diversity in line with Climate Action Strategy and Biodiversity Action Plan



Increase access to community Growing Areas



Improved Legibility and Sight-lines



Create a design that addresses anti-social behaviour concerns



Provide more, relocated seating to provide a bench at least every 44metres for improved accessibility.



Reduce maintenance costs and improve water management



Improve the amenity provision of space and redefine its uses to create more welcoming social and solitary spaces



Potential to improve lighting design to enable better perceived and actual safety enable a welcoming space day and night

Addressing Anti-Social Behaviour (ASB)



Concerns Raised by Residents Around ASB:

- Noise made at anti-social hours and anti-social activities such as public urination directly below residential flats; due in part to the proximity of public social/seating spaces.
- Loitering by large groups of people gathering to carry out activities such as skateboarding, parkour and scootering can feel intimidating
- Noise created by skateboarding and other sports across the podium
- Removing the link building may create a longer strip for skateboarders/scooters leading to more anti-social behaviour



Design Considerations Arising from Consultation:

- Increase the planting areas around the 'drip-line' of the buildings to provide a buffer from social spaces
- Limit any social spaces/group seating to the central vista, and position this well away from residential balconies to reduce noise
- Reduce the size of paved areas to deter loitering of large groups and create a more garden-scale public space to signify that this is a quiet, tranguil green space.
- Increase planting around ventilation structures to deter climbing onto them
- Where the link building is removed, new seating and the potential for a new or re-located water feature will break up the space into smaller areas to address this concern
- Potential to improve/increase night-lighting provision to improve perceived and actual safety
- Planting and tree species are selected to maintain open views at eyelevel, reducing dark corners or blind spots. This can improve perceived safety and reduce places for anti-social activities such as public urination.





6

Design Strategies

Planting character and function

Planting Character





Naturalistic perennial mixes



Woodland Understorey



Woodland Edge



Outer Conservatory



Small Lawn Areas



Communal Gardening Areas



Colour Throughout the Seasons:

Spring



Autumn





Winter





Summer





Street Furniture and Materiality





Existing Seating

- Currently incoherent urban furniture strategy across the site.
- Result of various interventions
- Some furniture in state of disrepair



Wooden bench for social seating



Tiled bench for social seating



Wooden chair for solitary seating

Proposed Strategy

- Coherence hierarchy of seating types based on podium location
- Social and solitary seating
- Accessible seating e.g: backrest and armrest, located every 40m







Solitary seating

Paving





Old Tiles



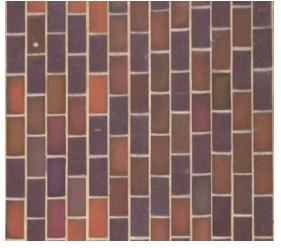
New Tiles

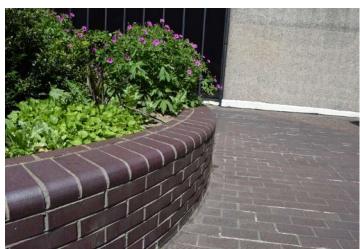


Edge Detailing









Street Furniture and Materiality





Other features

Bins, lighting and handrails will also follow a cohesive language in keeping with the Barbican character.







Natural play

An element of natural play will be introduced to allow for a more engaging landscape experience.



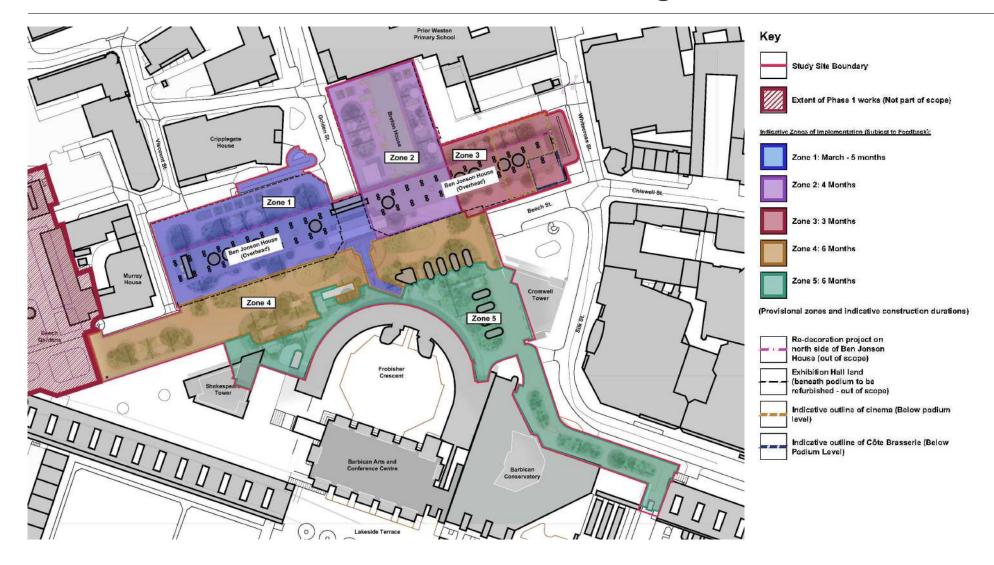




Construction Considerations and Phasing







Construction Considerations and Phasing











7

Summary

- Podium is leaking and damaging the fabric of the building
- Podium needs to be taken up and replaced
- Working within the parameters of the original innovative vision of the Barbican
- Working within the parameters of the Listed Building Management Guidelines
- Need to respond to the Climate Action Strategy and design in climate resilience for the Barbican for the next 50 years
- Opportunity to respond to and develop Chamberlin, Powell & Bon's original innovative vision





8

Next Steps

- 1. Design refinement following your comments
- 2. Planning application in December
- 3. Detailed design development including planting
- 4. Appoint contractor 2022
- 5. Construction to start 2023





Thank You

If you would like to share your thoughts, feedback or suggestions please get in touch:

Via e-mail: <u>www.barbicanprojects.co.uk</u>

Via our website: info@barbicanprojects.co.uk

On the phone: 0800 772 0475

