VICTORIA PARK BUILDING
STAFF PRESENTATION
9 June 2021
PRESENTATION TEAM

Masterplan Overview
• Fiona Bell, Director of Estates & Campus Services and Project Director

Victoria Park Building
• Andy Theobald, Feilden Clegg Bradley Studios (FCBS)
• Dan Burt, FCBS
• David Harris, FCBS
• Marcus Rothnie, FCBS
ESTATE MASTERPLAN

Purpose

• provide an integrated framework for development
  • £400 million investment
  • Over 10-12 years
• open up buildings to the community
• improve the built environment and public realm in the city
• provide space for future growth
• fit for purpose teaching, learning and research space

Future buildings will

• promote student experience
• facilitate collaborative learning
• grow our research and innovation activities
• meet challenging sustainability targets
NORTHERN QUARTER

- New Victoria Park Building
- Richmond extension
- Series of follow on interdependent projects
  - Lion gate demolition
  - Buckingham demolition
  - New Technology Building
  - Burnaby demolition
  - Anglesea demolition
VICTORIA PARK BUILDING
INDICATIVE TIMELINE

• Planning Submission end June 2021

• Planning Determination Sept/Oct Planning Committee

• If consent granted:

• Start on Site February 2022

• Target Completion 2024
SITE STRATEGY
SITING AND LANDSCAPE
Key Vehicular Routes
Key Pedestrian Routes
Site Public Realm
Railway and Embankment
Designated Cycle Routes
University of Portsmouth Buildings
Parkland / Trees / Embankment
Victoria Park Boundary Fence
Victoria Park Entrances
SITE STRATEGY
ENVIRONMENTAL PERFORMANCE
Project Team Focus
Higher Education Context

Whole life carbon

- Embodied carbon
- Operational carbon

Embodied carbon

- Frame: 26%
- Floors: 23%
- Substructure: 27%
- Façade: 23%
- Roof: 4%
- Internal partitions: 12%
- M&E systems: 4%

Operational carbon

- Heating: 35%
- DHW: 56%
- General Cooling: 17%
- IT Cooling: 12%
- Lighting: 17%
- Fans and pumps: 12%
- Loose Equipment: 34%
- IT/Comms: 17%
- Vertical transport: 56%
- Catering: 12%
Key Concepts

- Solar PV roof
- Atrium acts as return air path
- High performance facade
- Low energy chilled beam system
- Integrated slim-floor structure (see detailed section)
- LED lighting scheme

- Floor void air distribution offers enhanced air quality
- Natural light into heart of building
- Sealed facade to protect from noise and air pollution
- Low VOC finishes to ensure indoor air quality

- Landscaping creates a biodiverse green corridor between embankment and park wildflowers
- Aquifer heating and free cooling

- Transfer level
- Reinforced concrete podium & substructure

- Recycled pile foundations
The Numbers

- ~40% reduction over Building Regulations requirements
- Electric only strategy
- 6 BREEAM Ene 1 credits = Outstanding
SITE STRATEGY
LANDSCAPE
**SITE STRATEGY**

**HARD LANDSCAPE STRATEGY**

*Hard Typologies*

- **Natural stone slab paving 1**
  - Pennant sandstone, unit size tbc

- **Natural stone slab paving 2**
  - Purbeck stone, unit size tbc

- **Clay block paving**
  - 'Alder Supraton' by Weinerberger (200x50x65mm)

- **Permeable resin bound surfacing**
  - Natural aggregate surfacing by Sureset

- **Pre-cast concrete slabs**
  - 600x600x80mm
Resin bound surfacing (permeable)

Clay creasing tiles used to form seating edge

Clay pavers - Southern Approach

Purbeck stone swatches

Purbeck slabs - feature paving/stone benches

Pennant slabs - primary paving units

FCBS visualisation
1 SITE STRATEGY
| SKETCH VISUALISATION

- Planted boundary with Victoria Park
- Copper beech feature tree (to rear)
- Natural stone monolith seating
- Purbeck stone paved circle
- Pennant sandstone paving
- Planting to base of west elevation
- Cycle shelter (green roof/walls)
- Anglesea Road

View towards building from north west approach

Precedent images
INTERNAL ARRANGEMENT
MARKET HALL
1. Stair 1
2. Stair 2
3. Stair 3
4. Stair 4
5. Southern Main Entrance Doors
6. Northern Main Entrance Doors
7. Lift Core
8. Cafe Servery
9. Reception / MyPort Desk
10. Showcase Teaching Space
11. Flexible Central Zone
12. WCs
13. External Cafe Seating
14. Perimeter Soft Seating
Markethall Visual from the Southern Main Entrance
Markethall View from Southern Corner looking towards Victoria Park
Markethall Evening Event View - Showcase Lighting
INTERNAL ARRANGEMENT
SHOWCASE TEACHING
INTERNAL ARRANGEMENT
SHOWCASE TEACHING

Level 00 Large Flat-floor teaching space (West)
INTERNAL ARRANGEMENT
LECTURE THEATRES
2 | INTERNAL ARRANGEMENT
   | LARGE LECTURE THEATRE

500 Seat Lecture Theatre
Functional Scenarios

1. Lecture
2. Talk / Conference
3. Ceremonial Event (e.g. graduation ceremonies)

- Three different modes illustrated below are assumed to be achieved with the base infrastructure and technical systems which typically support lecture.
- Possible enhancements and system upgrades are to be reviewed with the University to support other type of events.
Collaborative Lecture Theatre
Collaborative Lecture Theatre
INTERNAL ARRANGEMENT
ATRIUM - PARK & CITY ROOMS
Park & City Room Organizational Diagram

The Park and City Rooms are anchoring points at the heart of the building. The two triple height spaces are surrounded by Faculty Workspace, Specialist Teaching, meeting and tutorial rooms. A central stair and promenade bridges connect the various spaces and provide break out space away from office, meeting and seminar rooms.

The large circular ‘Oculus’ windows face in opposite directions. The northern oculus, at Level 4, provides views out over Victoria Park, the souther oculus, at Level 7, looks out across the city towards he south coast, the Solent and the Isle of Wight.
Interface Booths and Counter
City Room
Located on Level 7 with specialist teaching rooms, the Park Room will facilitate the briefed Business Clinic and EEA space. It is imagined that when not in timetabled use for its specialist function the space can be utilised for social learning, gathering and meetings. With a view South towards the City the space will receive abundant natural light. As well as natural daylight form the Oculus window, this space will receive diffused top light from the roof light void above.

Park Room
Located on Level 4 amongst predominantly BaL specialist teaching rooms, the Park room will facilitate the briefed Ideation Space. A space for staff, students and external visitors that enhances the creative potential of the occupants. The space will be a University-wide resource, available to teams needing to brainstorm around projects/initiatives. With a view North to Victoria Park the space will overlook the adjacent tree canopy and receive diffused North light form the oculus window, as well as filtered light permeating through the atrium.
Park Room - view into social learning landings
Park Room - view into social learning landings
Park Room - view into social learning landings
Park Room - view through atrium
INTERNAL ARRANGEMENT

GENERAL TEACHING
General Teaching Floors

The overall approach to the distribution of teaching spaces in the building has remained unchanged. The majority of general teaching spaces including the lecture theatres and large flat floor spaces are arranged over the bottom three floors of the building. Other, smaller, flexible teaching spaces and seminar rooms are distributed throughout the building.
Typical 25 person Classroom
Typical 50 person Classroom
Internal Arrangement

General Teaching

Tutorial and Meeting room spaces surrounding the Park and City 'Rooms'
Larger seminar room spaces flanking the Park and City ‘Rooms’
INTERNAL ARRANGEMENT
SPECIALIST TEACHING SPACES
Specialist Teaching Floors

Similarly to the General Teaching provision the approach to the distribution of Specialist teaching spaces in the building has remained unchanged.

The specialist teaching spaces are grouped on levels 4 and 7 at the base of the Park and City rooms respectively, placing the Academic staff closer to their specialist teaching facilities.

The PGR Hub and Interface area has moved down from Level 10 to occupy the central zone adjacent to the City Room on Level 7.
Level 07
With two floors of academic space above and two floors of academic space below this floor, it is ideally located for the more generalist specialist teaching spaces.

A slightly more HUMSS-focussed floor, all of the SLAL spaces are located here, most of which are clustered in the western wing. In the other wing are a mixture of SLAL, EDSOC and HUMSS spaces. Centrally are the more generic teaching spaces and the Executive Education Area. This floor also contains the VR simulation and video production rooms.

This is all supported by a generous general teaching provision of flexible seminar rooms and two TEAL rooms.

The PGR Hub occupies the central zone of the plan adjacent to the City Room.

Level 04
With the the colocated ICJS and School of Law on the floor above, the majority of this floor serves spaced dedicated for those two departments - a suite of ICJS rooms is located to the west and the courtroom and associated functions in the east.

The central part of the plan is dedicated to showcase teaching spaces - the Bloomberg suite, SAP labs and Business Simulation / Hydra suite. The BaL technical support office is also on this floor to support those functions.
INTERNAL ARRANGEMENT

ACADEMIC SPACES
**General Arrangement**

Faculty workspace is grouped on the upper floors of the building acoustically separate from the highly trafficked ground floor and lower three floors of general teaching.

Schools and departments are arranged around two interconnected triple height spaces, the Park and the City Rooms, these provide the focus for appropriately scaled academic neighbourhoods.
Typical Floor Plan
The general planning arrangements and diagram of a typical academic floor plate is loosely defined in the adjacent diagram.

1. Departmental Landings - Student Interface, Tutorial and Seminar Rooms.
2. Perimeter Office - 3-6 person offices
3. Academic Work Space - dedicated desks within shared spaces
4. Hot Desking
5. Ancillary Space - kitchenettes, breakout academic social space, printing hub
6. Tutorial / Meeting Spaces
7. Academic Expansion / Additional Meeting rooms / Breakout Workspace

* Social Hub
Academic Workspace

The academic office is important for professional identity and has been treated consistently across all departments. Offices are used by academics as a base for activities on campus which is likely to include preparation of teaching / assessment materials, administration and research.

Office workspace is arranged around the perimeter of the floorplan so that spaces benefit from daylighting. It was agreed through consultation that the majority workspace should be cellular to provide acoustic separation and privacy.

The perimeter office layouts are flexible and can accommodate a mixture of 1, 3 and 6 person offices depending on each departments’ requirements.
Six Person Office Shared Office
Shared Open Academic Workspace

The building diagram includes a provision of shared open academic workspace located on centrally on the perimeter within each of the departmental areas.

These spaces will contain dedicated workspace with equal provision of secure personal storage, shelving etc as the cellular offices. The spaces benefit from ready access to alternative working environments in the adjacent breakout and hotdesking zones.

Through consultation it is clear that within some schools and departments there was a desire to include some provision of open workspace. This provision can be expanded or indeed the space can be cellularised based on departmental requirements.
Open Plan Academic Work Space
Hot Desking Zone and Meeting Spaces
Departmental Entrances
Schools and Departments are accessed from the landings around the City and Park Rooms via departmental entrances. Space for school/departmental display will give these entrances a sense of individual identity and these spaces will be used to invite students and visitors into academic workspace.

Social Hub
Located between Departmental Entrances, at the centre of the plan is the shared academic Social Hub. This hub space is shared by all staff working on this level and it contains kitchen facilities, a reprographics hub, recycling bins, dining area and a row of seating booths for impromptu meetings.

Hot-Desking
Hot desking is provided on each academic level in two locations, within the wings of the plan, which are intended as quieter working zones; and adjacent to the Departmental Entrances and the Social Hub where hotdesking is shared by all departments on that floor.

Academic Breakout
It has been possible to introduce breakout spaces within departmental zones through the spatial efficiency of the 3 and 6-person office. The function of breakout spaces varies across the academic floorplan dependant on its location. Breakout within the Social Hub and around Departmental Entrances are likely to be livelier social spaces whereas furniture and finishes to breakout space located adjacent to open plan and cellular offices will promote quieter working.
**Academic Interface**

Provided within the Administrative and Departmental Social Hub are kitchen facilities, a reprographics hub, cleaner’s store, recycling bins, dining area and a row of seating booths for meetings.

This space has been designed to limit the impact of increased noise and food smells on adjacent workspaces.

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**Kitchenette**

Located to limit the impact of food smells into the shared academic offices while being conveniently placed. Detailed design of the kitchen provision will follow after further consultation in Stage 3.

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**Reprographics**

Space for centralised waste station and reprographics to house 3no. large recycling bins, printers, and general storage.

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**Cleaner’s Store**

A general store provision cleaning and maintenance equipment.
Academic Interface Zone
INTERNAL ARRANGEMENT

ACADEMIC WORKSPACE

Academic Social Hub
INTERNAL ARRANGEMENT
LARGE FLAT FLOOR TEACHING SPACE
INTERNAL ARRANGEMENT

LARGE FLAT FLOOR TEACHING
INTERNAL ARRANGEMENT
GENERAL TEACHING

Level 10 Large Flat Floor Teaching Space
INTERNAL ARRANGEMENT
RESTAURANT & TERRACE
Level 11 Restaurant
Top Floor Events Mode - Evening Lighting
Roof Terrace - Planting Strategy
Roof Terrace - Sea Views
EXTERNAL ENVELOPE
FACADE
Swathes
To create a transient appearance, our ambition is to incorporate wide gestures across the facade to disrupt the appearance of a regular grid of office windows. This gesture is abstract and compositional: a swathe effect created by the composition of different panel types.

Banding
We have minimised the sense of horizontal banding by grouping together band of 1, 2, 3 or 4 floors with a unified pattern, as highlighted on the image below. These bands are to be discontinuous around the facade to downplay the horizontality as much as possible.
Up angle, northern elevation entrance
Principle north elevation distant view
Low evening sun angle view from across the park
Elevated west elevation
Sample Panel - Observations
A material sample panel has been sent to the University to clarify the preferred material strategy and compare it against the best version of an anodic finish. The samples included in the panel are as follows:

1. Ribbed Panel, Clear Anodised Finish
2. Matte PPC Finish - Euramax Illumicoat HDP Ultra Matte - White - 2 Layers
3. White Anodic PPC Finish - Euramax Euramica PVDF 3L FEVE - Onyx White Silver - 3 Layers
4. Glass backing (to compare reflectivity)
Preferred Finish - Matte White PPC
In the following slides, the building has been rendered with the preferred finish solution - Matte white PPC finish on a flat, unprofiled panel.
North-West Elevation

Catherine House  Victoria Park  New Victoria Park Building
Guildhall  Park Building  Site Extents
East Elevation
South-East Elevation

Anglesea Building  Anglesea Road  New Victoria Park Building
Site Extents
West Elevation