

2.3 Activity, Flexibility and Adaptability

Test fit layouts

The proposed design has been reviewed by specialist laboratory designers at Buro Happold who have also developed test fit layouts to consider the viability of the design for potential life science tenants.

The initial design was based around two main parameters. The first is the structural grid that is set out at 6.6m along the length of each wing. This relates to a laboratory benching setting out dimension of 3.3m when placed back to back. The window module to the elevation works with this 3.3m grid to provide daylight between the benching layouts. The structural grid running parallel to the wings of the building are at 7.5m centres which works for a more optimum office desk layout, therefore suitable for these areas to be at the ends of each wing.

The plan illustrated is a potential layout solution where the laboratory areas are located to the western side of the building. The layouts have evolved from the original submission which were based on solution with dual corridors and split write up space.

The rationalisation of the cores now allows for a single central corridor solution which gives more efficient use of the area. It also allows for improved daylight into the rooms which was another concern with the initial design.

The test fit layouts have also evolved to ensure there is no cross over from the goods lift access and the write up and entrance area. This was also a potential concern when assessing the original design.

Key: Indicative Internal Uses

- Write up Space/ Office
- Laboratory
- Collaboration Space



Upper Floor Plan

- | | | |
|---|--|--|
| 01 Access stair and lifts | 05 Northern wing central service riser | 09 Southern wing central service riser |
| 02 Central WCs | 06 Northern wing tenant space | |
| 03 Goods lift and back of house stair | 07 Secondary access / escape stair | |
| 04 Feature lab space | 08 Southern wing tenant space | |

2.3 Activity, Flexibility and Adaptability

Flexibility and adaptability

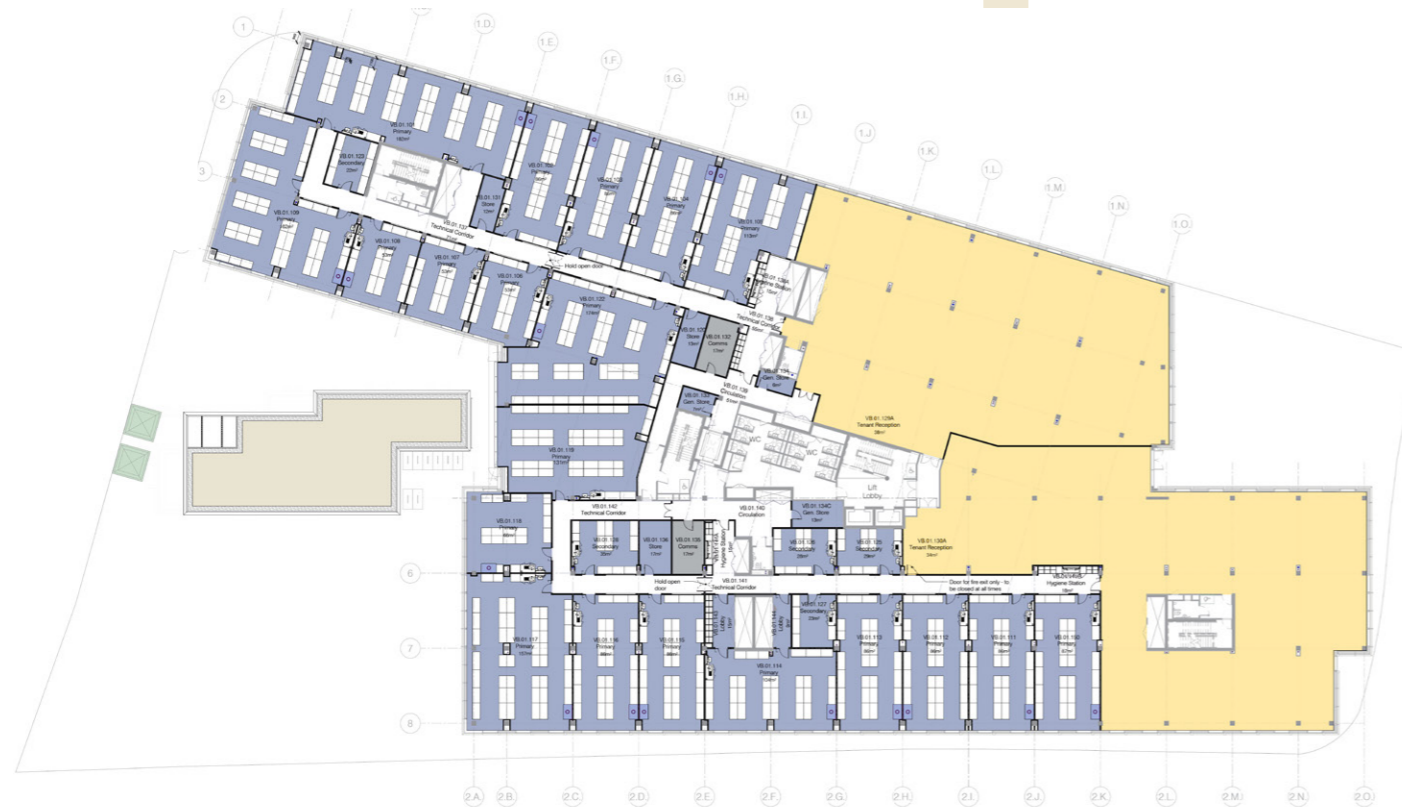
Although test fit designs have been progressed to suit a preferred life sciences layout option, the scheme is proposed to be flexible to allow for a range of fit out solutions.

The rational structural grid and efficient rectangular form of the accommodation wings of the building allow for a variety of lab arrangements. This is supported by the services strategy with vertical distribution of services coming through the building from the plant areas above.

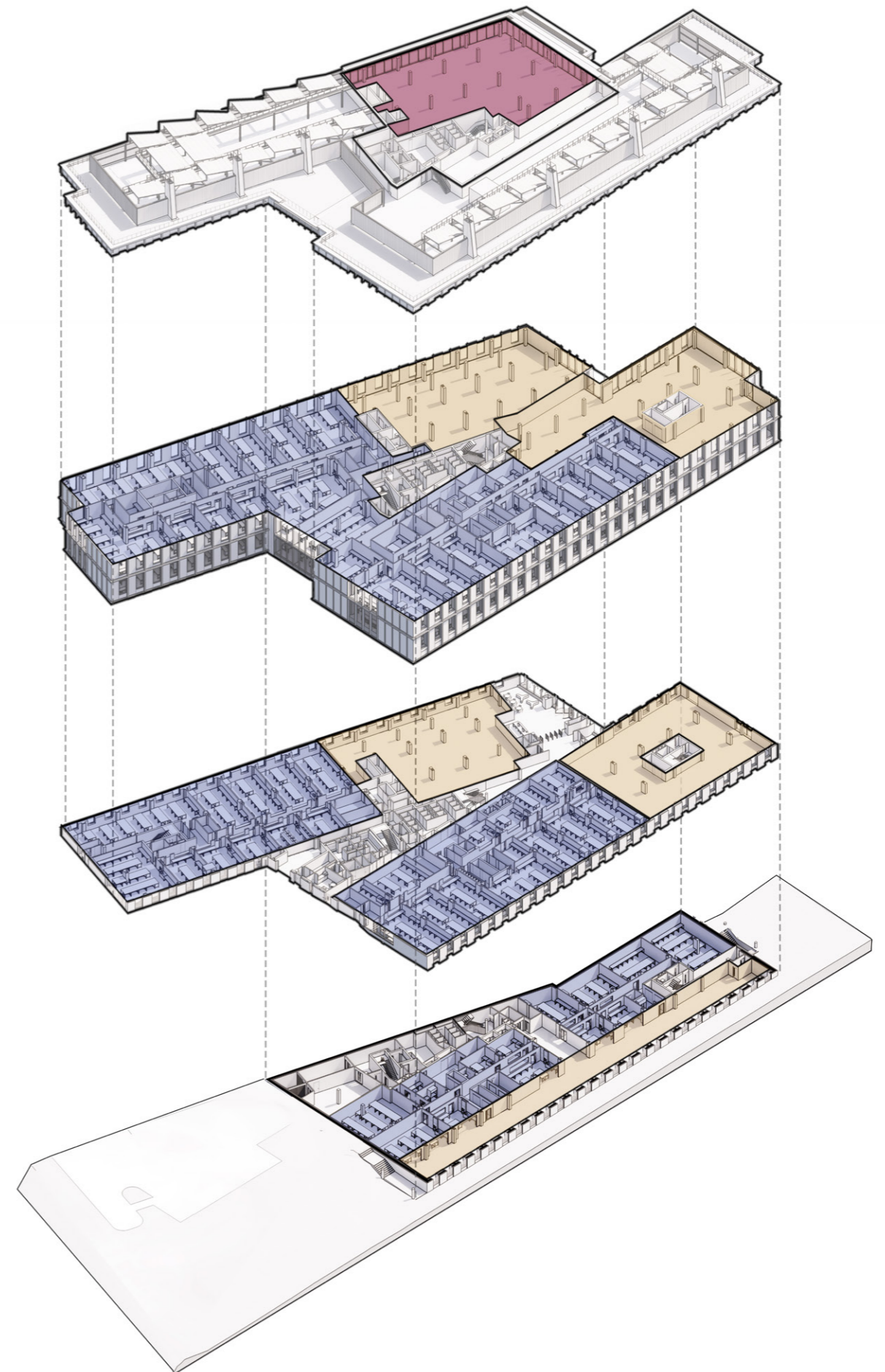
The adaptability of the building extends to the top floor and lower level where uses could vary from office use to various amenity, catering or gathering spaces.

While the proposed base case test-fit layout is shown with one tenancy per wing, the building is able to accommodate a variety of tenant splits.

- Collaboration / Amenity / Office Space
- Laboratory
- Write up Space/ Office



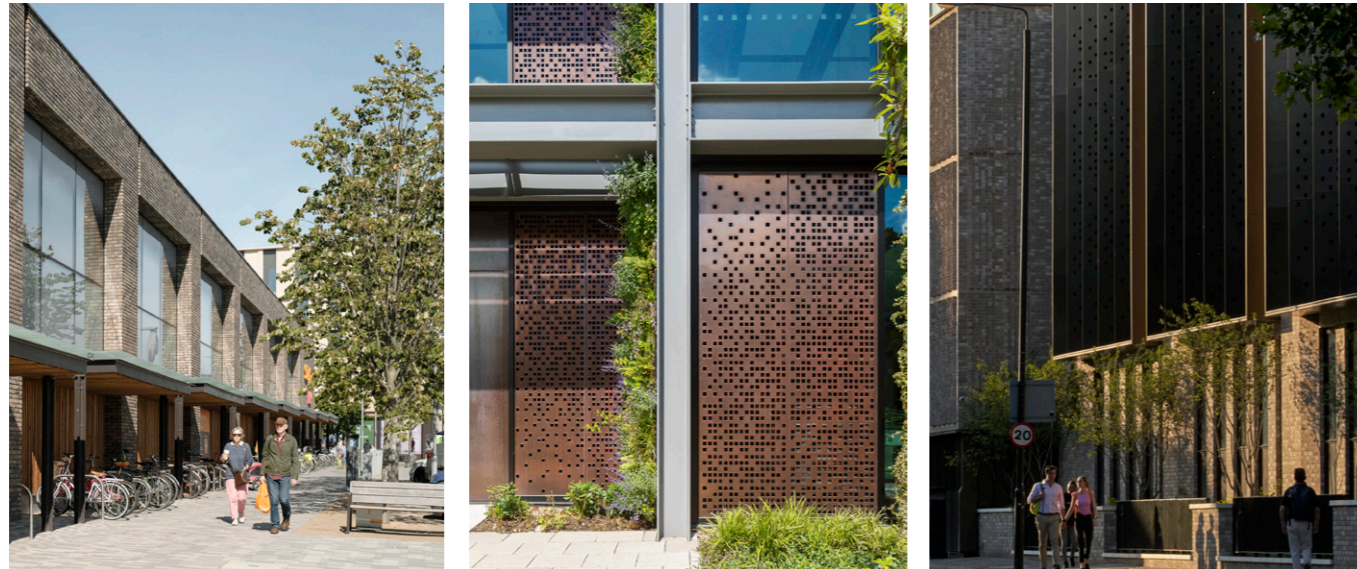
Lab Test fit detailed layout



2.4 Facade, Materials and Finishes

The facade has been developed to create a strong sense of rhythm to the linear wings of the building. This is accentuated along the upper levels of the building by providing a depth and relief to the regular fenestration. Protruding vertical fins are proposed to the south side of the windows which provide solar shading to the glass whilst enhancing the facade depth. Protruding horizontal profile bands are also proposed to enhance the relief of the elevation and create bays that frame each window with an adjacent solid panel. These key concepts have been retained within the updated design.

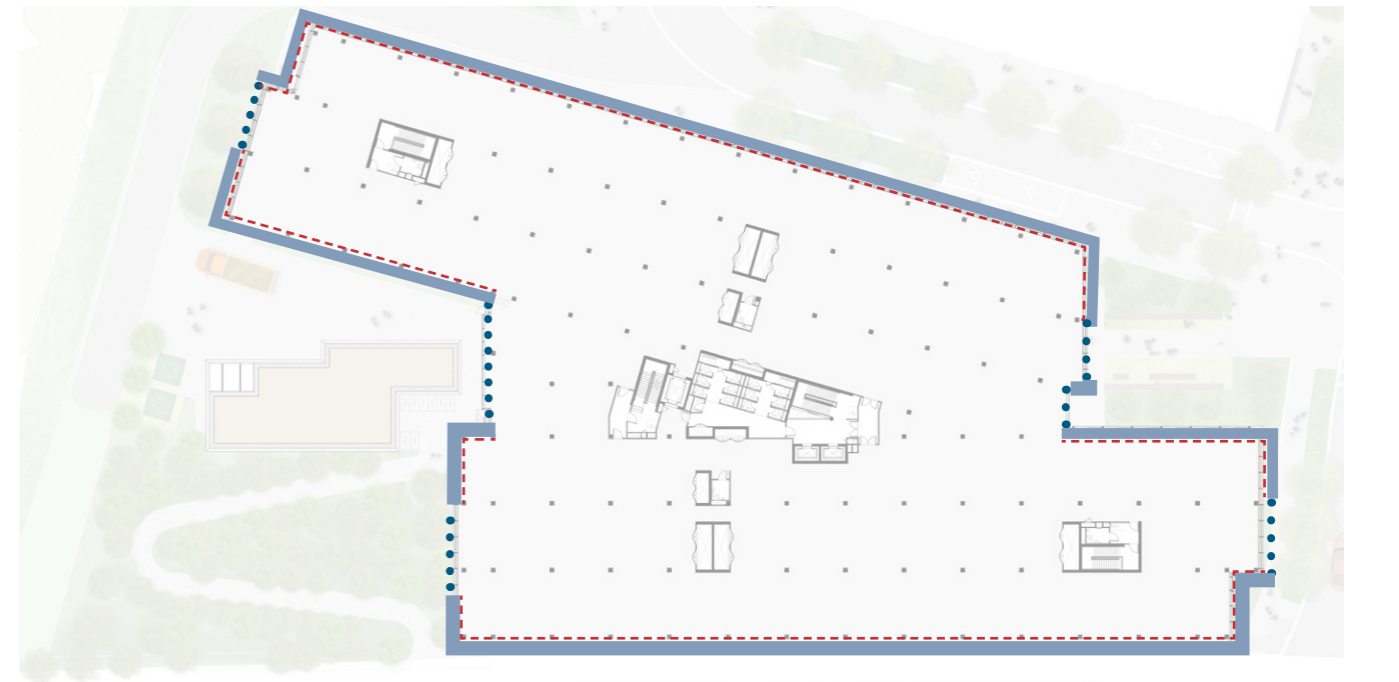
The facade is proposed as a curtain walling system with integrated metal spandrel panels to the upper volume with feature profiled spandrels in folded aluminium. The use of metal was selected to create an elegant and sophisticated facade. Metal enables refined detailing of the profiled fins and bands which are a prominent feature of the facade. Other advantages in using metal (as opposed to precast concrete) as well as detailing advantages over alternatives, such as precast concrete, there are also embodied carbon benefits in the use of metal cladding. The updated design looks to further improve on the embodied carbon to the facades.



Rhythms of metal, brick and glass with warm tones



Typical Levels 00/01



Typical Levels 02/03

- | | | | |
|--|--|--|-------------------------------------|
| | 01 Brick work Cladding System: | | 03 Glazing Screen Systems |
| | 02- Curtainwalling with metal spandrel panels | | 04 Insulated SFS Wall System |
| | 02- Curtainwalling with metal spandrel panels (Above) | | |

2.4 Facade, Materials and Finishes

In order to highlight the intended elegance of the upper volume, a brickwork solution is proposed to the lower levels. This is proposed as a suitable robust finish for ground level but also to provide a contrasting textured and more natural material. This more natural material is intended to blend with the surrounding ground plane to highlight the contrasting qualities of the main volume above.



A rhythm of lower level brick with upper level metal profiles at London South Bank University.

The tones of the facade are proposed to be slightly de-saturated yet with a gentle warmth and some stronger tones enhancing the sense of depth. A darker base and lighter upper volume is proposed to accentuate the character of the materials. The introduction of texture to elements such as spandrel panels above and below the glazing is intended to add further interest and refinement.

Metal soffit areas to the overhanging elements at the gable ends of each wing. It is proposed that the soffit colour is consistent with the upper cladding to highlight this volume. A warmer colour is proposed to the soffit of the extended roof edge to the top floor, visible within the forecourt which is also a metal soffit.

The pavilion building was planned to be constructed of a carbon neutral innovative material - to be developed as a solution to similar outbuildings across the development. Due to issues of reliability of this product, the initial concept to use a carbon neutral block in diagonal hit and miss configuration to allow light and air penetration has been amended to a perforated aluminium sheet cladding solution.



2.4 Facade, Materials and Finishes

Levels 00 & 01 -

Brickwork



01

Levels 02 & 03 -

Metal Spandrel Panels & Aluminium facade panels



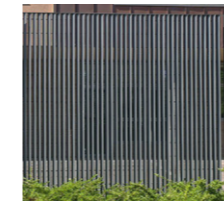
03

04

05

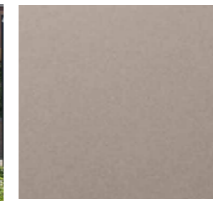
Screening, Soffits, Roof

Vertical Louvres



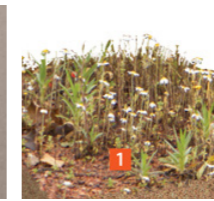
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Metal soffit panel



07

Green&Brown Roof



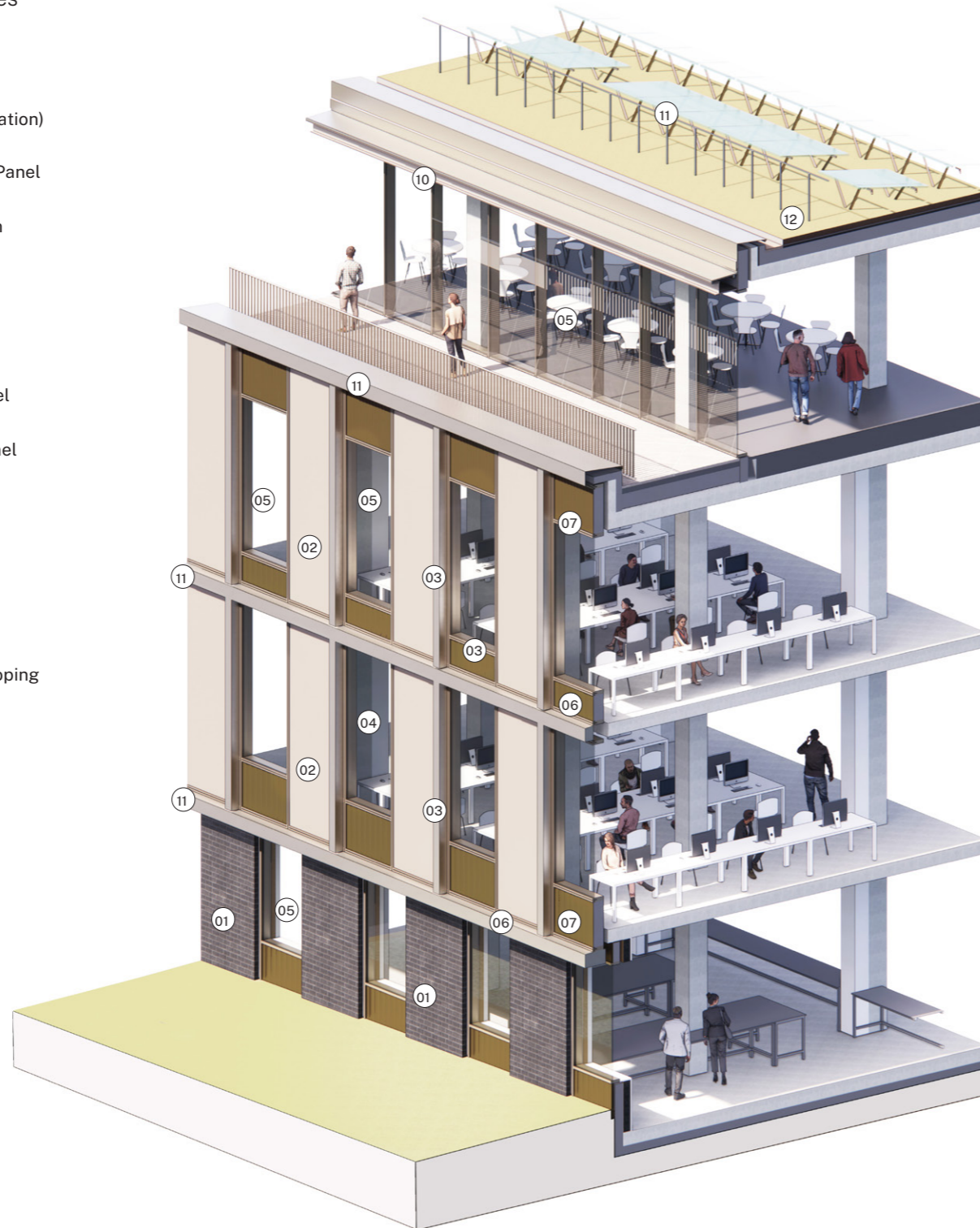
08



2.4 Facade, Materials and Finishes

Northern Wing Bay Studies

- 01 Brickwork (with insulation)
- 02 Flat Metal Spandrel Panel
- 03 Folded Aluminium Fin
- 04 Triple Glazing
- 05 Double Glazing
- 06 Ribbed spandrel panel
- 07 Profiled spandrel panel
- 08 Plant Screen
- 09 Profiled Mullion Cap
- 10 Metal Canopy
- 11 Profiled aluminium coping
- 12 Sedum Roof



Typical North Bay Study



Entrance Bay Study (northern wing)