

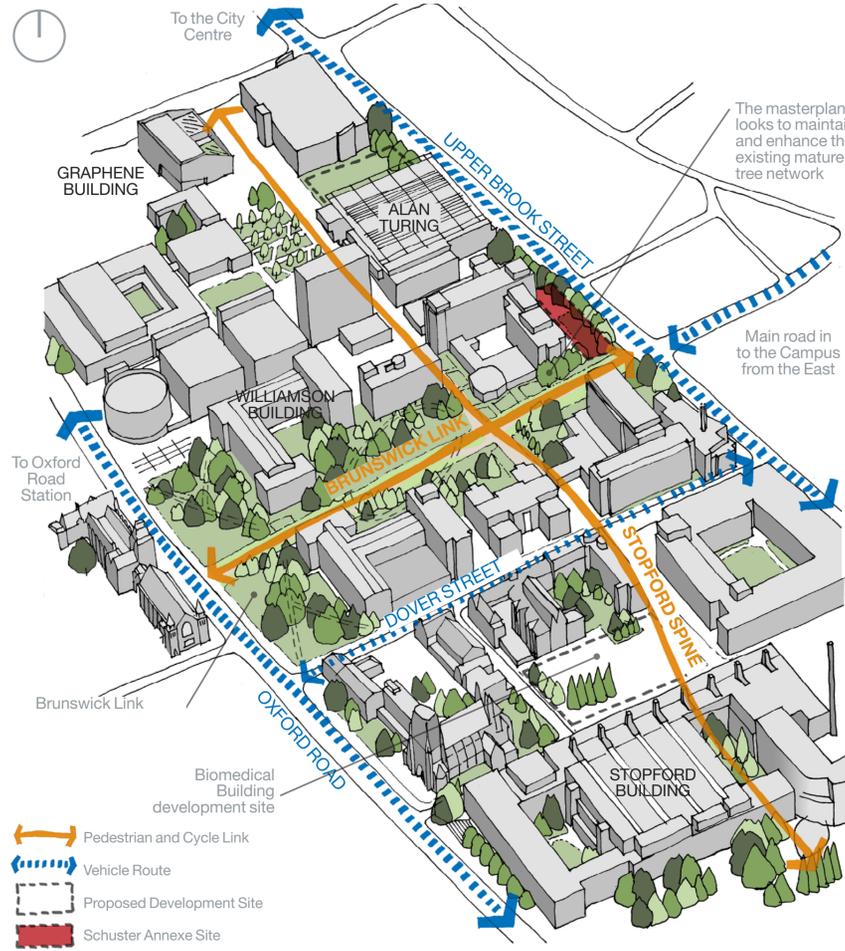
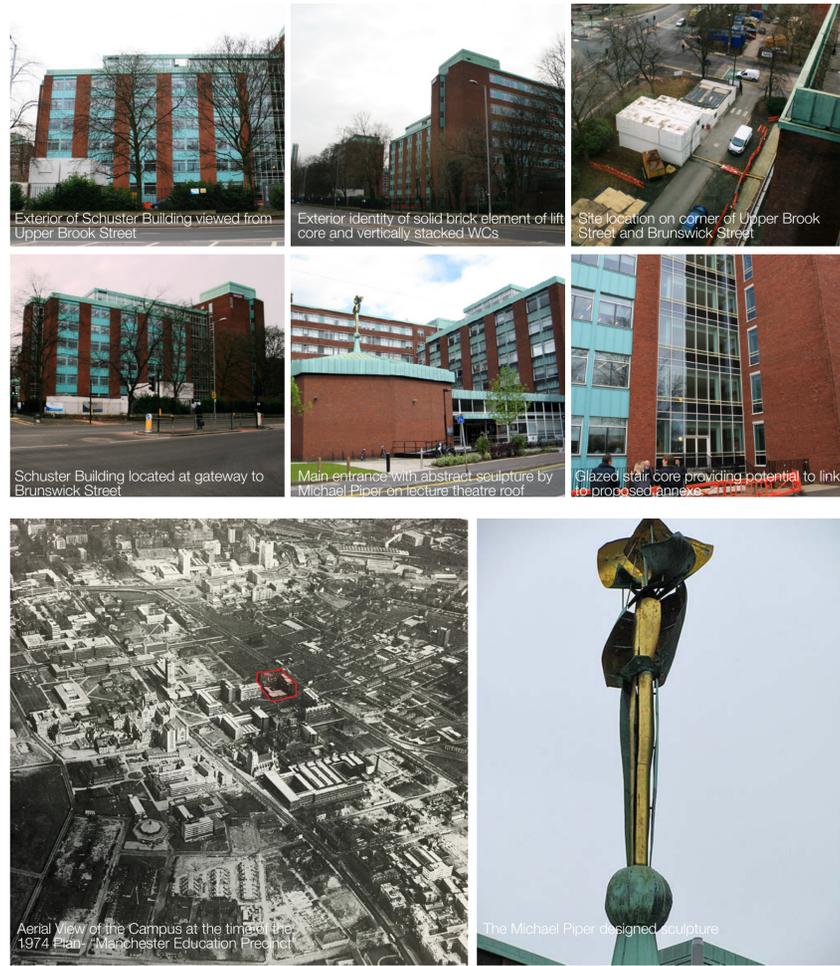
# Schuster Annexe The University of Manchester

The University approved its new Estates Strategy in October 2012, which will create a single campus and will involve the construction of new teaching and research buildings, student facilities and major improvements to its existing building stock and public realm. The first phase of the plan, costing in the region of £700 million, will be delivered between now and 2018.

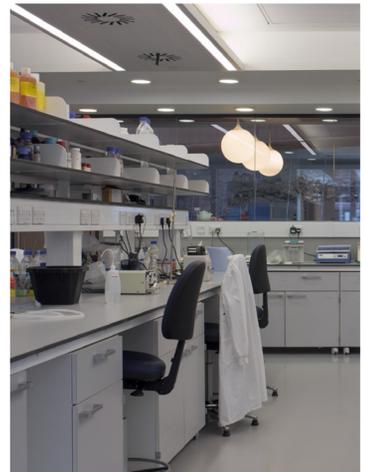
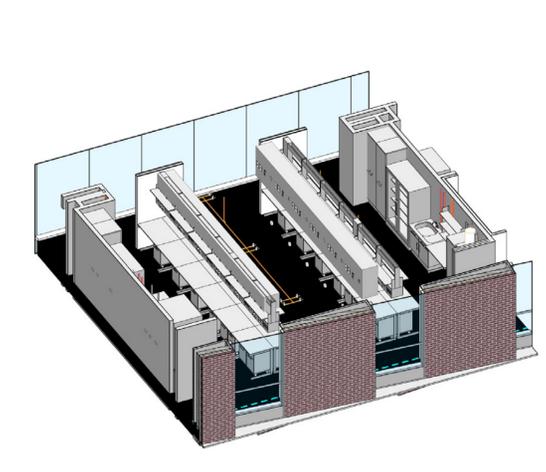
The Schuster Annexe is part of this first phase and is intended to be a purpose built Annexe to The School of Physics and Astronomy.

The annexe will be built on unoccupied land next to the Schuster building, part of the University's estate. It will allow the University to improve the student experience, diversify recruitment, enhance transferable skills and employability of their students and accommodate the recent growth in STEM-Foundations and Physics and Astronomy undergraduates at UoM.

The Concept Designs have been developed in line with this vision to deliver world-class teaching and academic facilities in an annexe building that enhances the setting of Brunswick Street forming a gateway marker into the University Campus. Designs promote a building that maximises flexibility and potential future uses whilst improving the student experience. At the heart of the building will be innovative collaborative learning spaces. A flexible new 'Ideas Mill' will connect seamlessly to the Schuster provision and extend the possibilities for teaching and learning in the department. The Ideas mill will extend the outreach activities and create a venue for connection and collaboration.



- Images of the Existing Schuster Building and Site (Top Left)  
- Site Location Plan (Top Right)  
- Upper Brook Street Elevation and Facade Study (Below)  
- Laboratory Teaching Space reflected in the Brief, Schuster Mosaic Artwork (Bottom Left to Right)

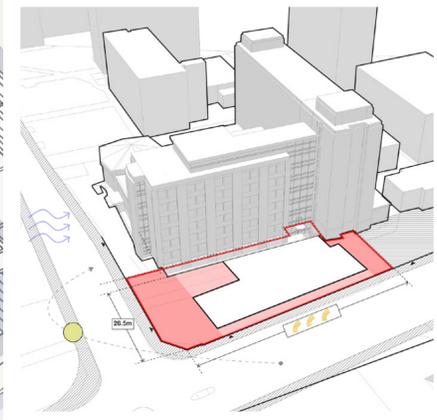
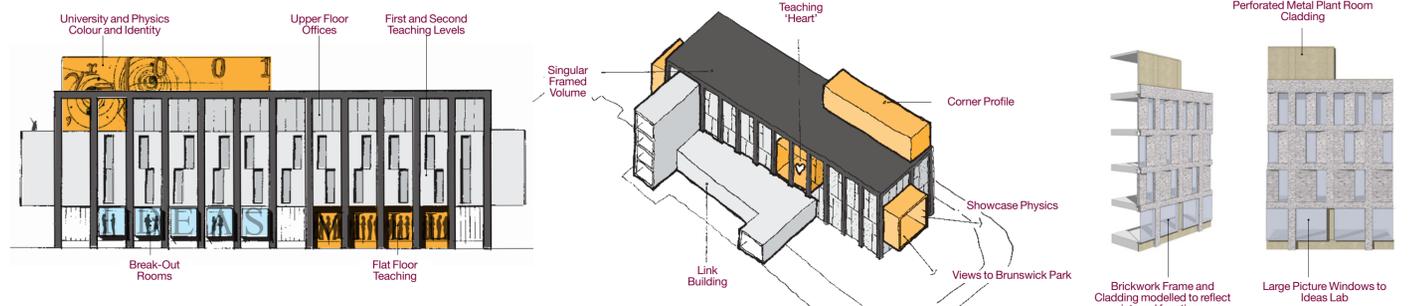
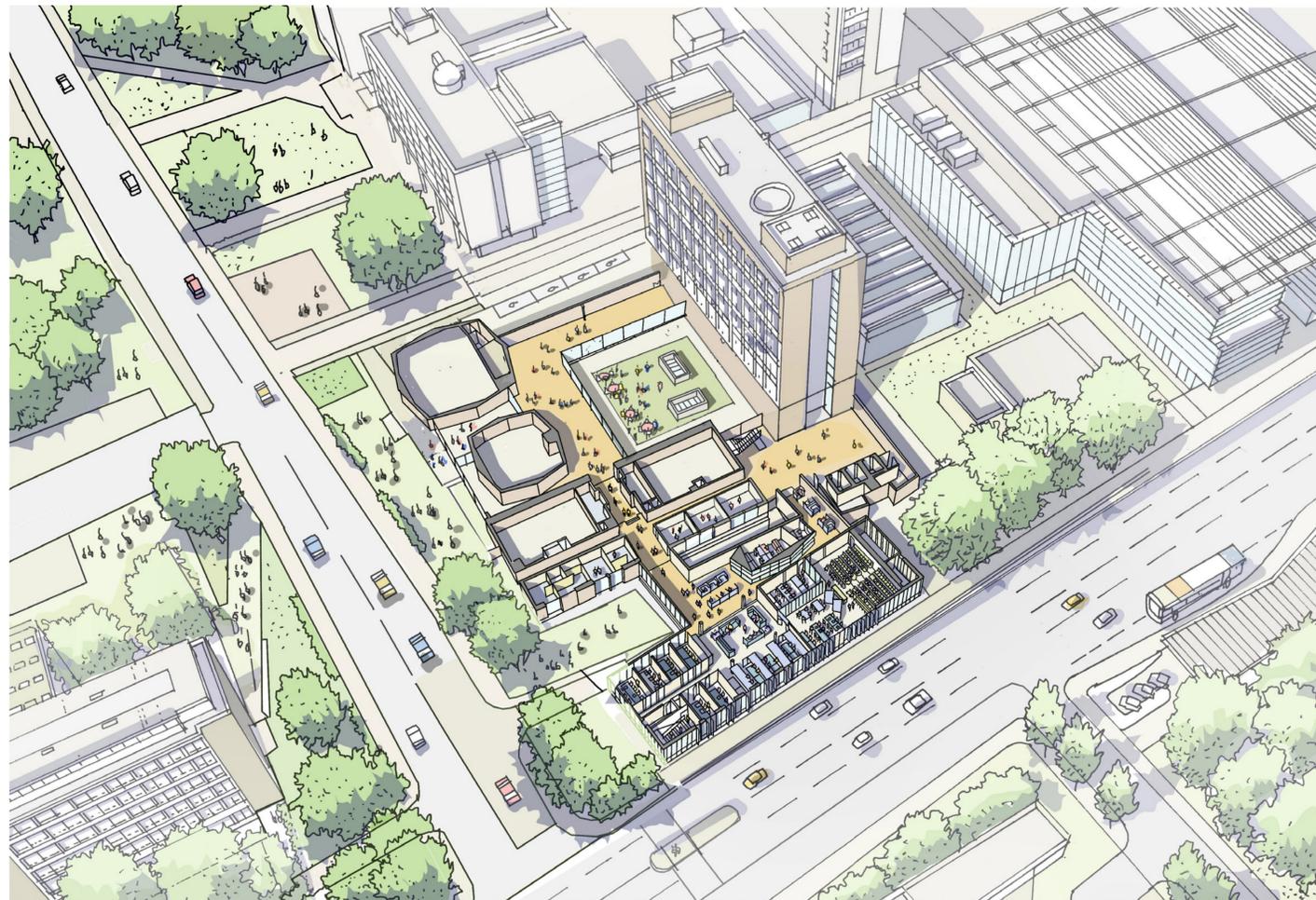


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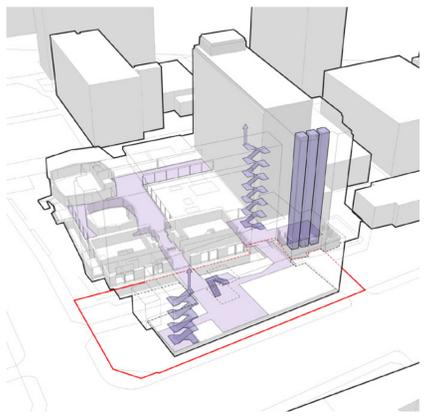
The Building consists of four levels of accommodation totally 2,564sqm (GIA) and is organised with the ideas mill and student services at ground floor, two linked floors of teaching laboratories and project space above with a top floor of academic office accommodation.

The building is designed to ensure that students and staff can connect to the teaching and academic office accommodation on the upper floors quickly, making the building legible in relation to the existing circulation. The Utilisation of natural light and ventilation where possible will create sustainable and comfortable spaces throughout allowing for the constraints of noise and pollution from Upper Brook Street that present significant challenges.

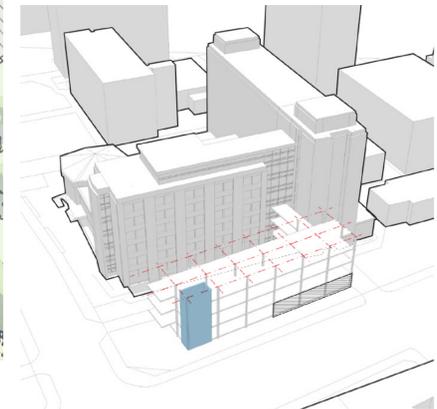
- Floor Plans (Below)
- Cut-away perspective in context (Top Centre)
- Facade Strategy Concepts (Centre Centre)
- Perspective view of proposals (Bottom Centre)
- Key Design Features of Building (Right)



**Site Constraints**  
The site is limited in terms of its size due to its proximity to the road and the existing Schuster Building. Ensuring good natural light to both the main building and the annexe as well as mitigating the noise and pollution from the road are all critical factors.



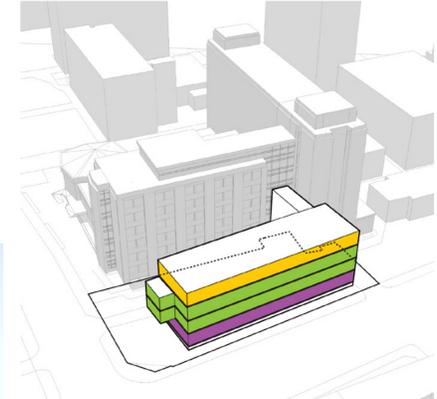
**Vertical Circulation**  
The building is designed to connect effectively to the existing core. A protected escape core to the south of the building provides means of escape. A single flight stair that connects the two teaching levels is at the heart of the building.



**Efficient Structural Strategy**  
The building's grid is a key to establishing the effective use of space. A 1200mm planning grid which coordinates with the teaching lab layouts as well as the offices establishes a 7.2m x 12m structural grid. The stair core is the main location for vertical bracing and the slab design is altered to span 12m without columns over the large flat floor teaching space.



**Ground Floor Integration**  
The connection between the annexe and the main building is critical to its success. Prioritising the southern link at ground floor as an entrance into the Idea's Mill is created with a clear line of site from the foyer. The northern connection serves as a route to the existing lift core at all levels. Good connection at key point of the circulation is prioritised for orientation and views to the public realm.



**Accommodation Allocation**  
A legible approach to organising the accommodation has been applied to the building. Clear levels of accommodation assist in the zoning of services, people movement as well as security.



**Envelope Design**  
The building's facade is key to defining the department's identity, dealing with the inherent constraints of noise and pollution as well as providing meaningful visual connections to the public realm.