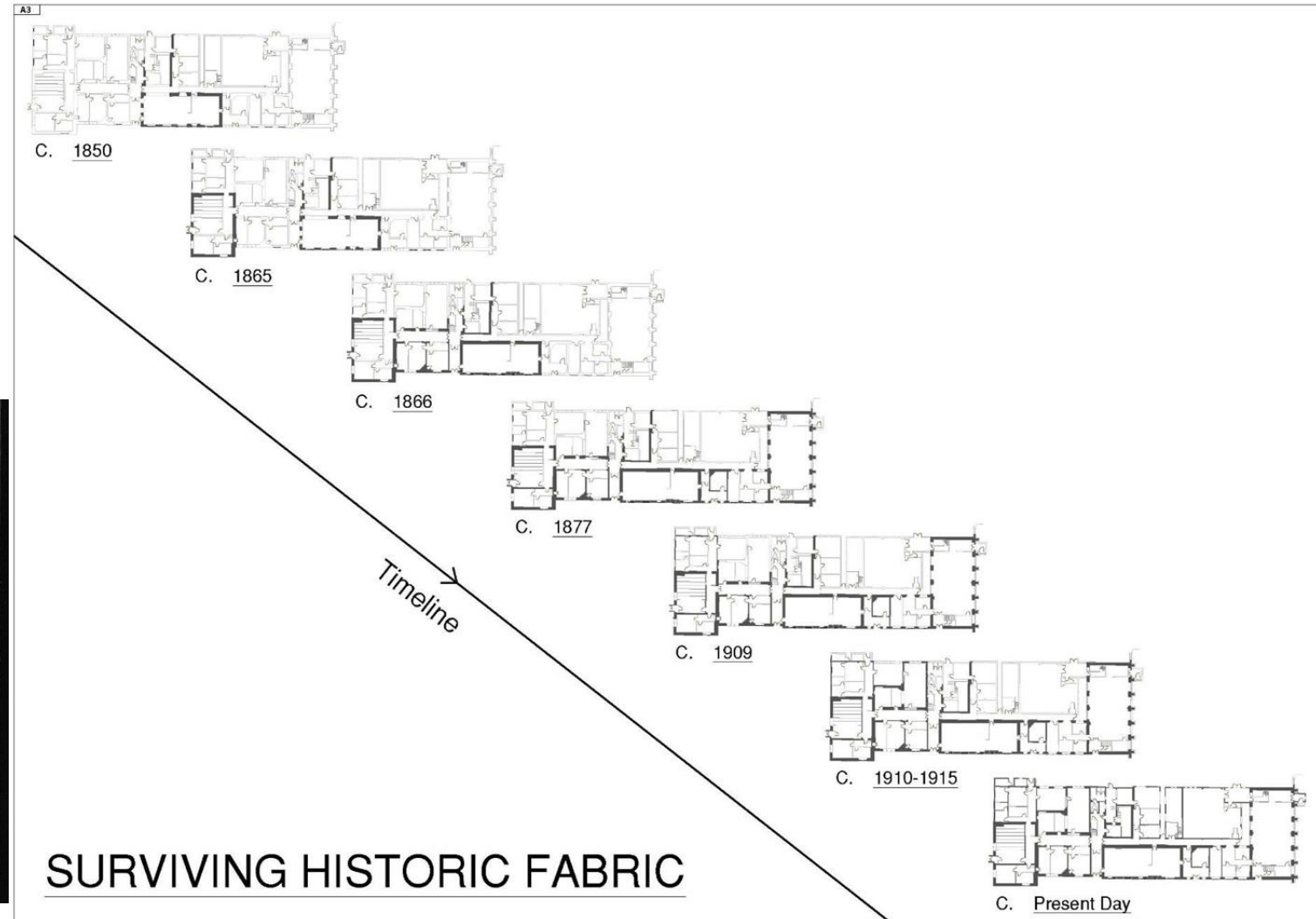


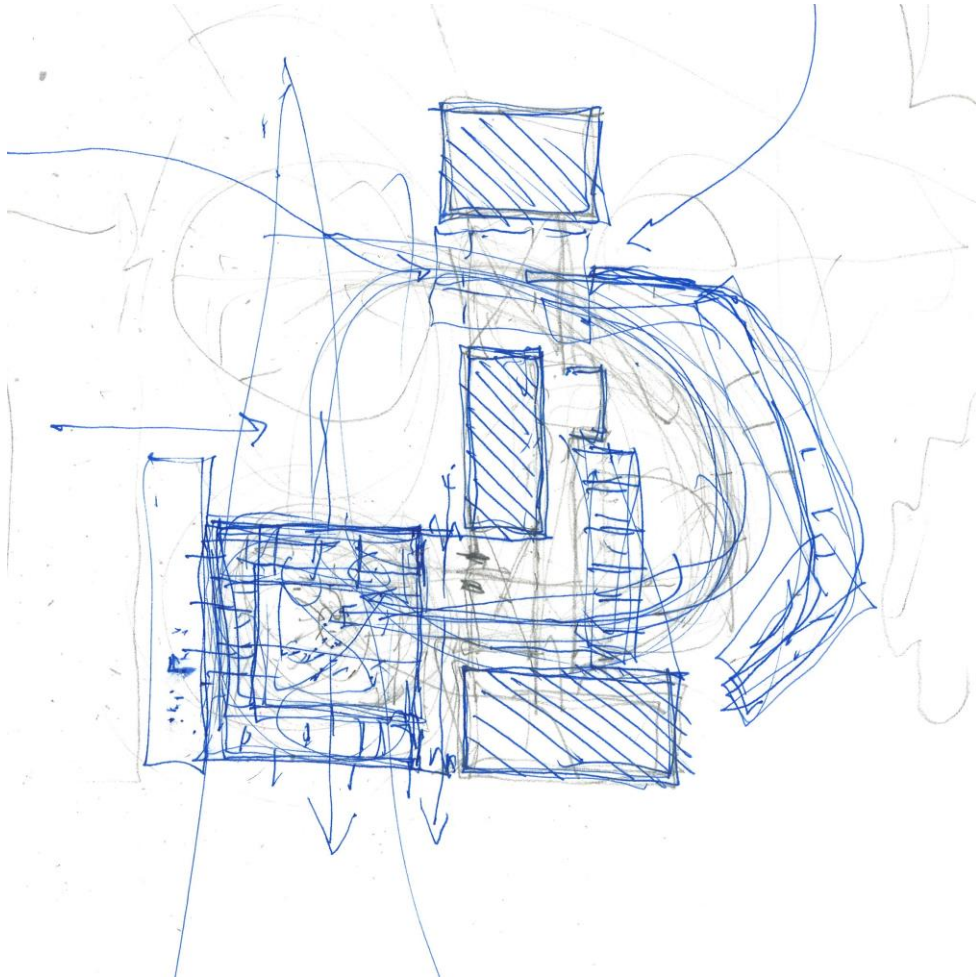
UCC Hub



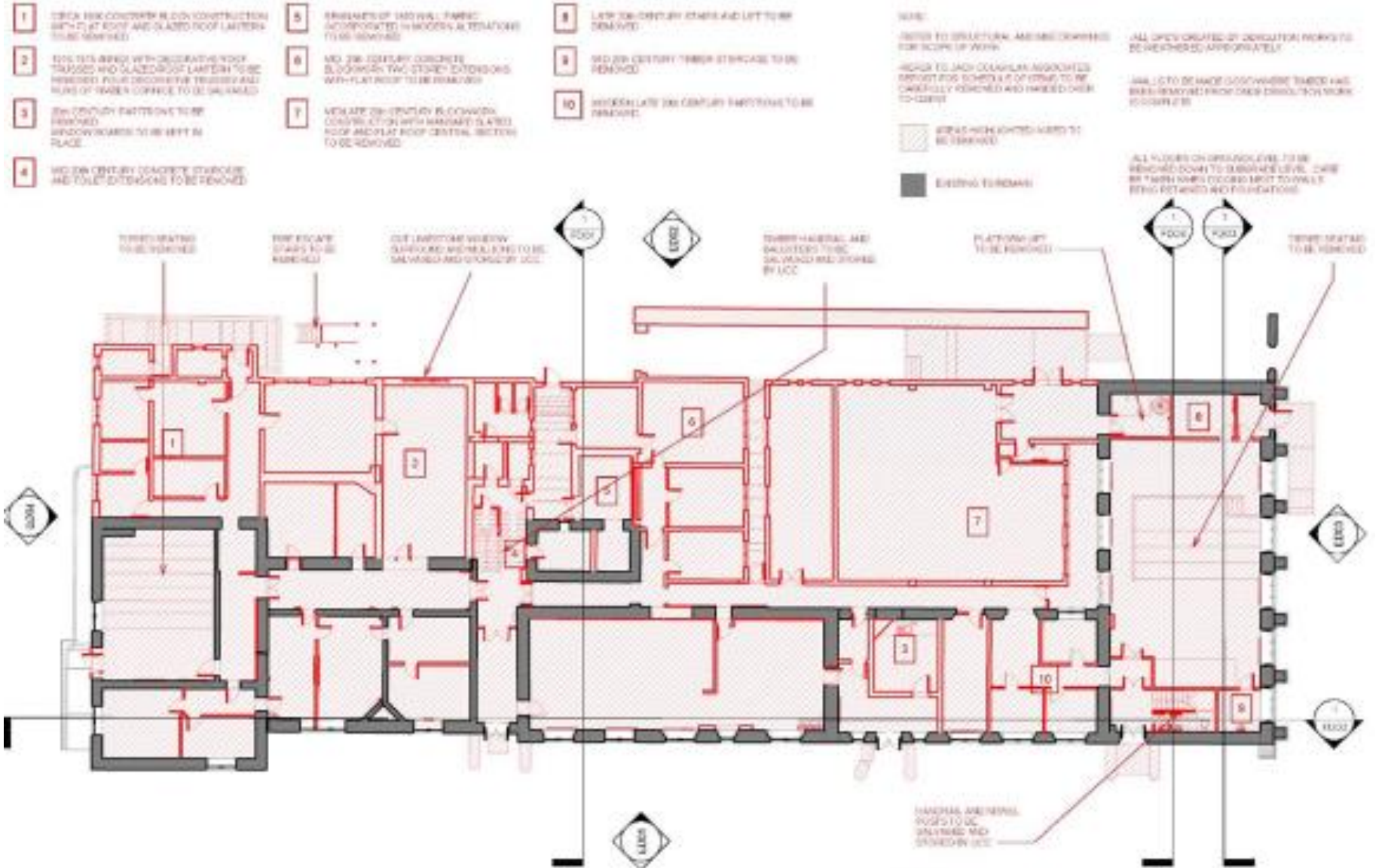
Historic Development



Sketch Design

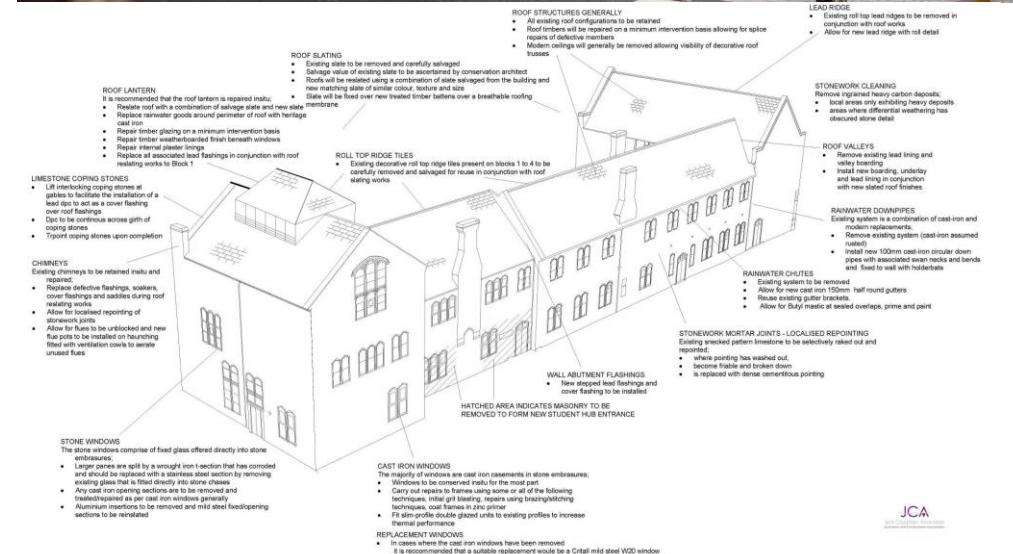


Demolition

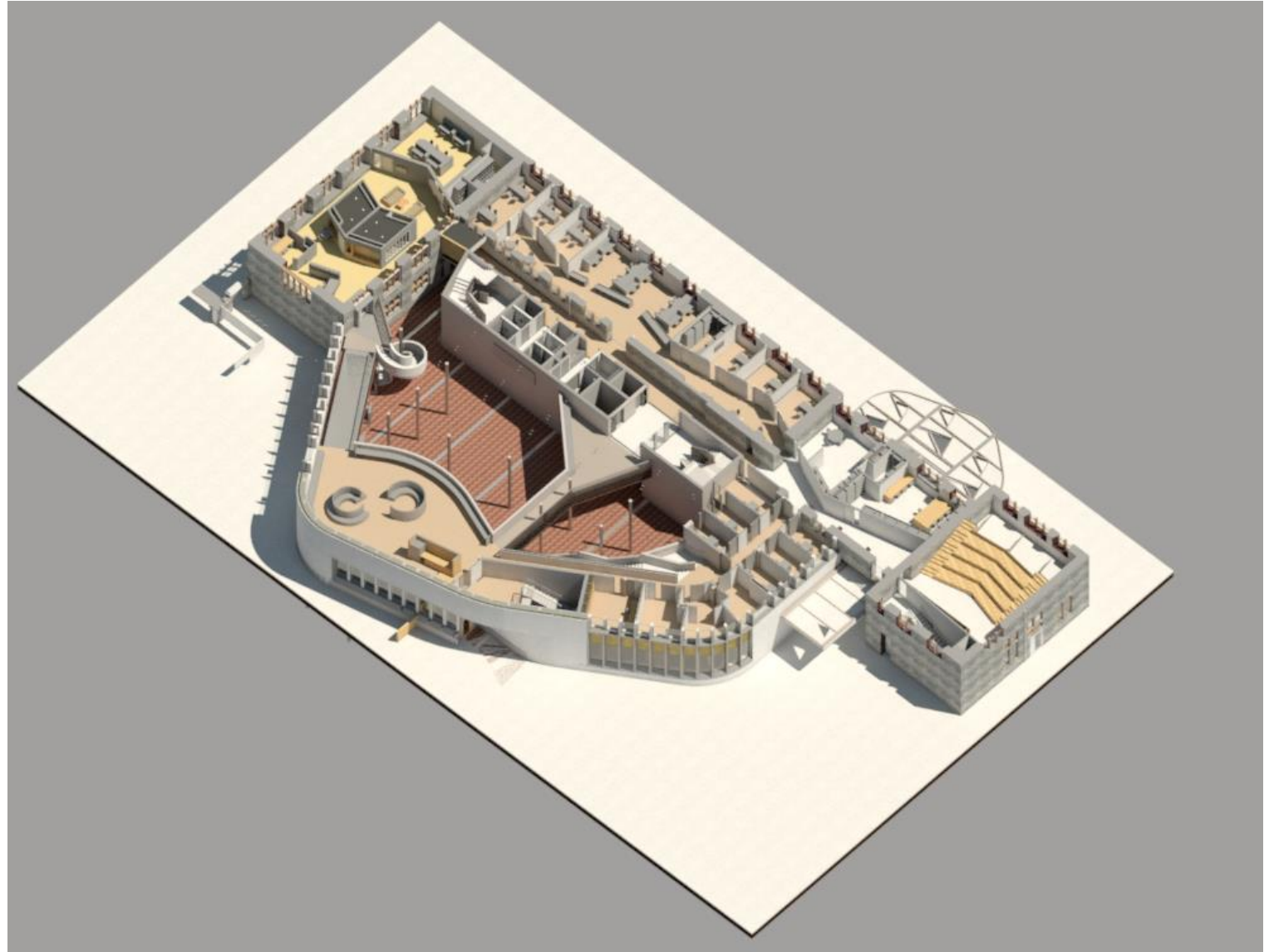
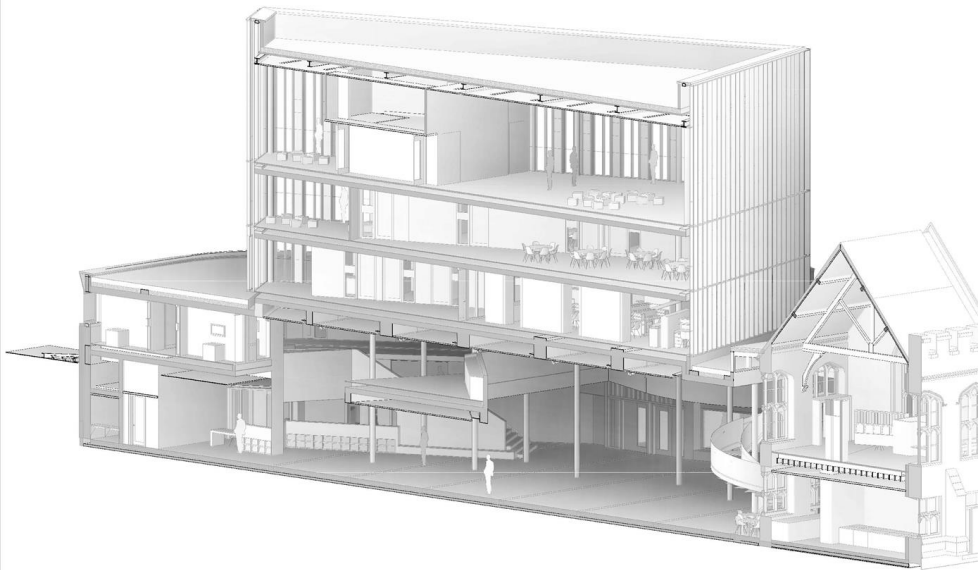


Restoration

- Total Building Area 4,000m²
- Restored existing building 1,200m²
- New Build 2,800m²



New Meets Historic



New Meets Historic

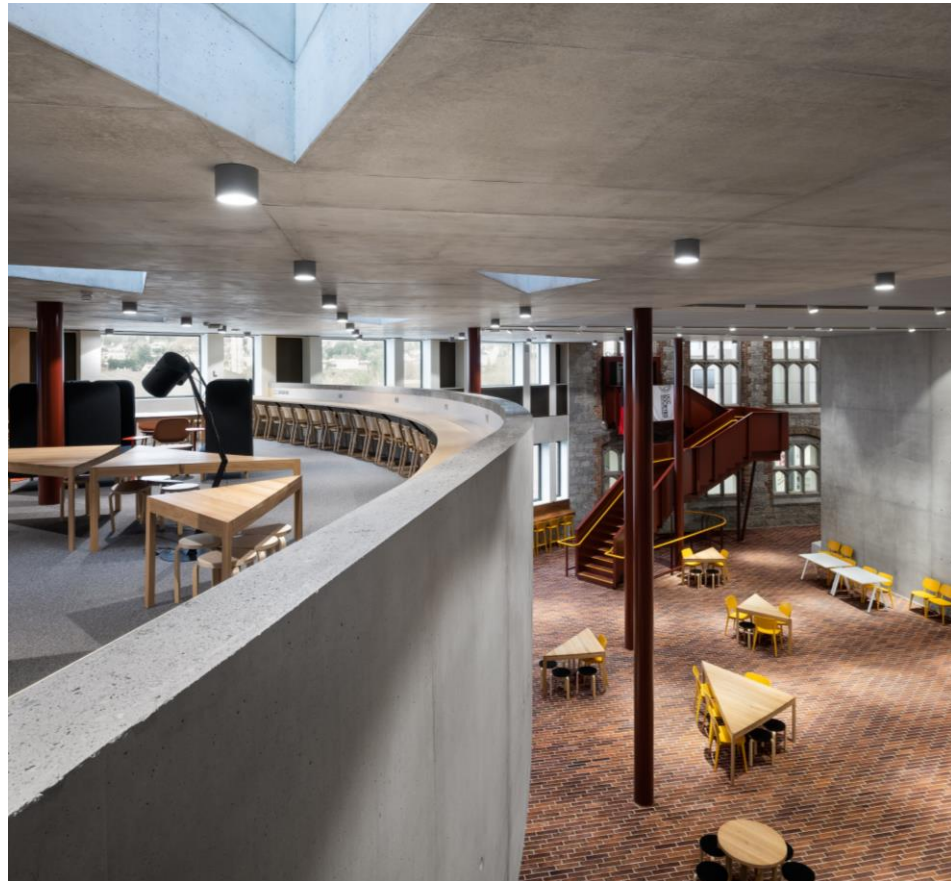
- Concrete frame
- Irish Limestone cladding
- Rough Harl Render
- Aluminium windows
- Cast iron windows



New Into Historic



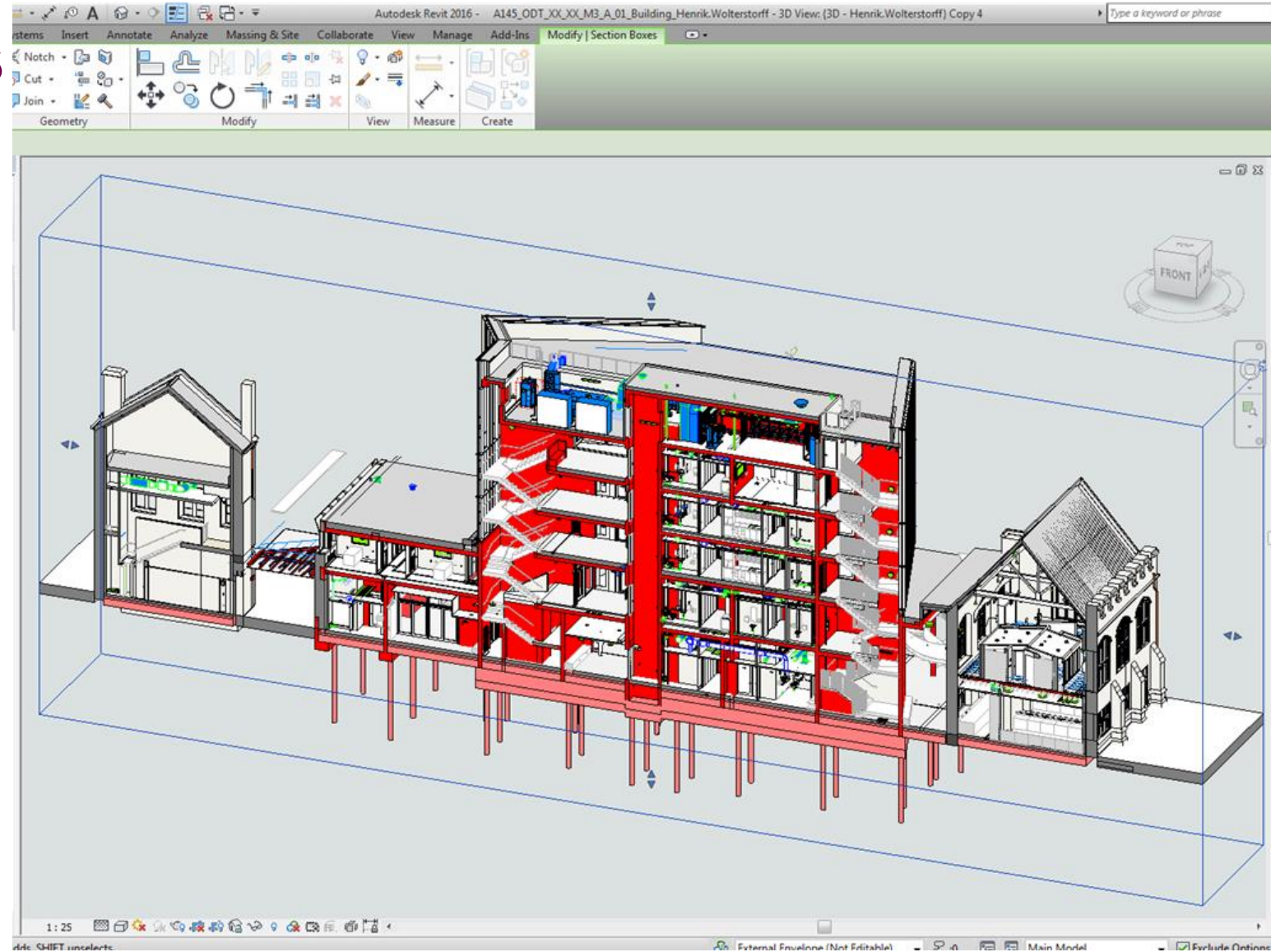
Bridges and Balconies



Gathering Space



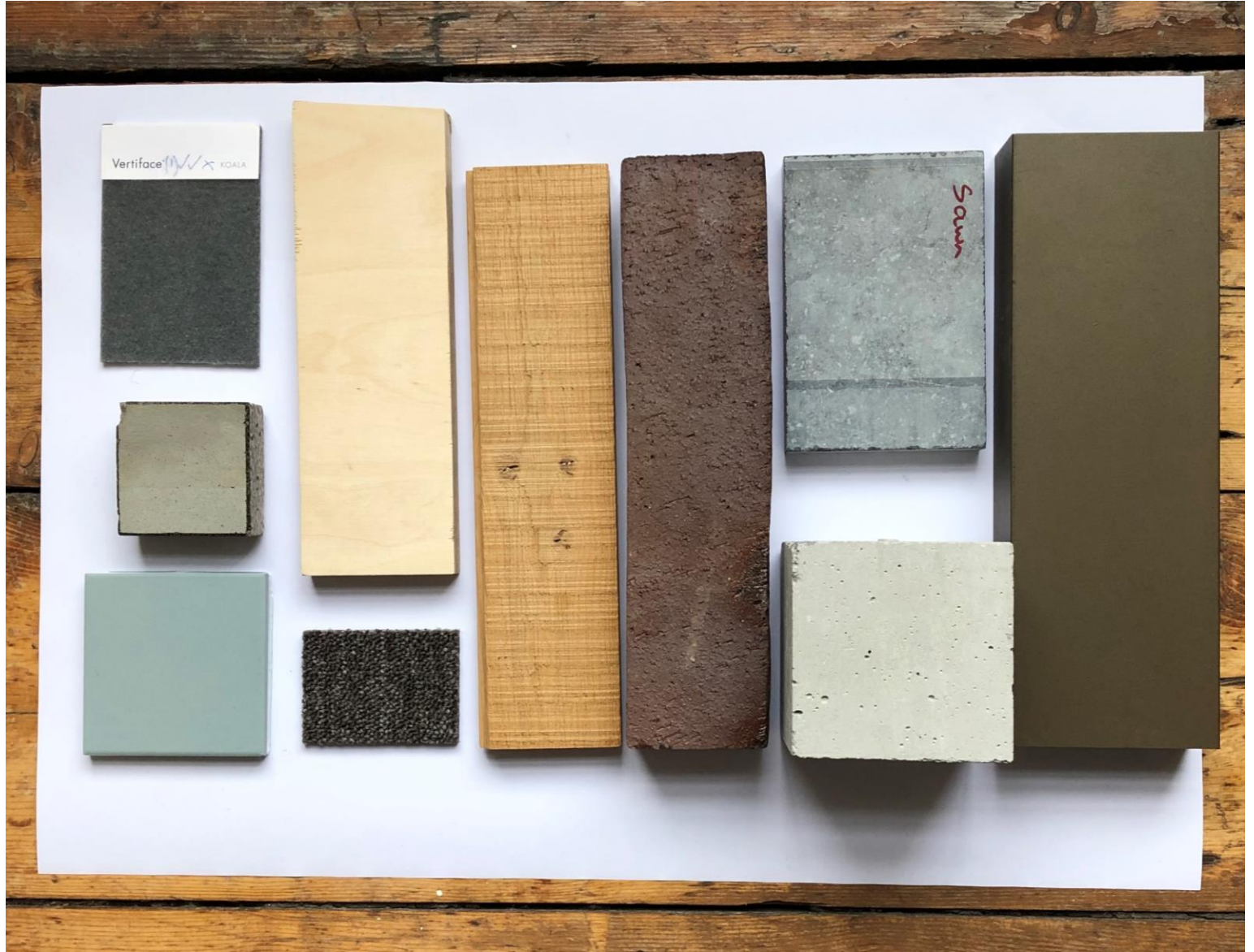
Structure + Services Integration



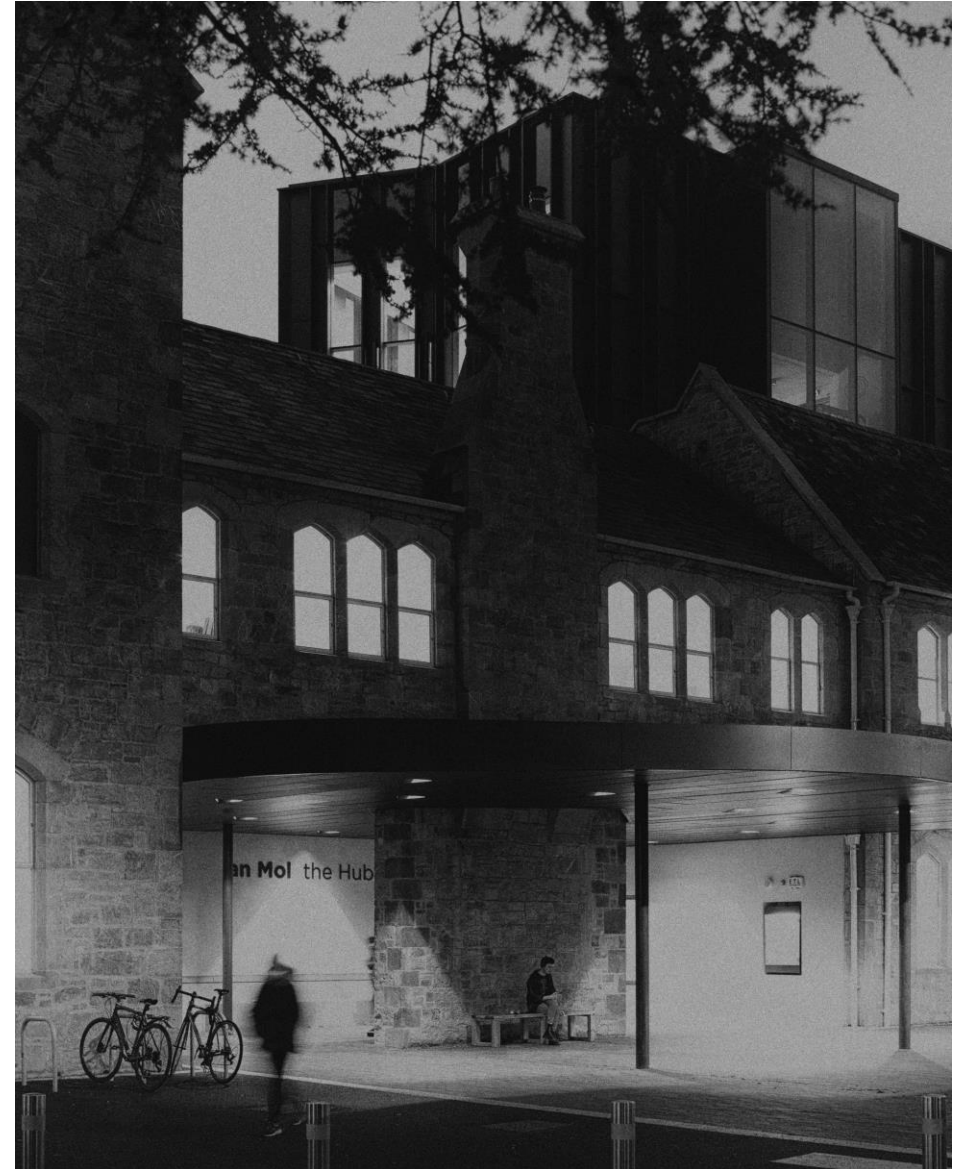
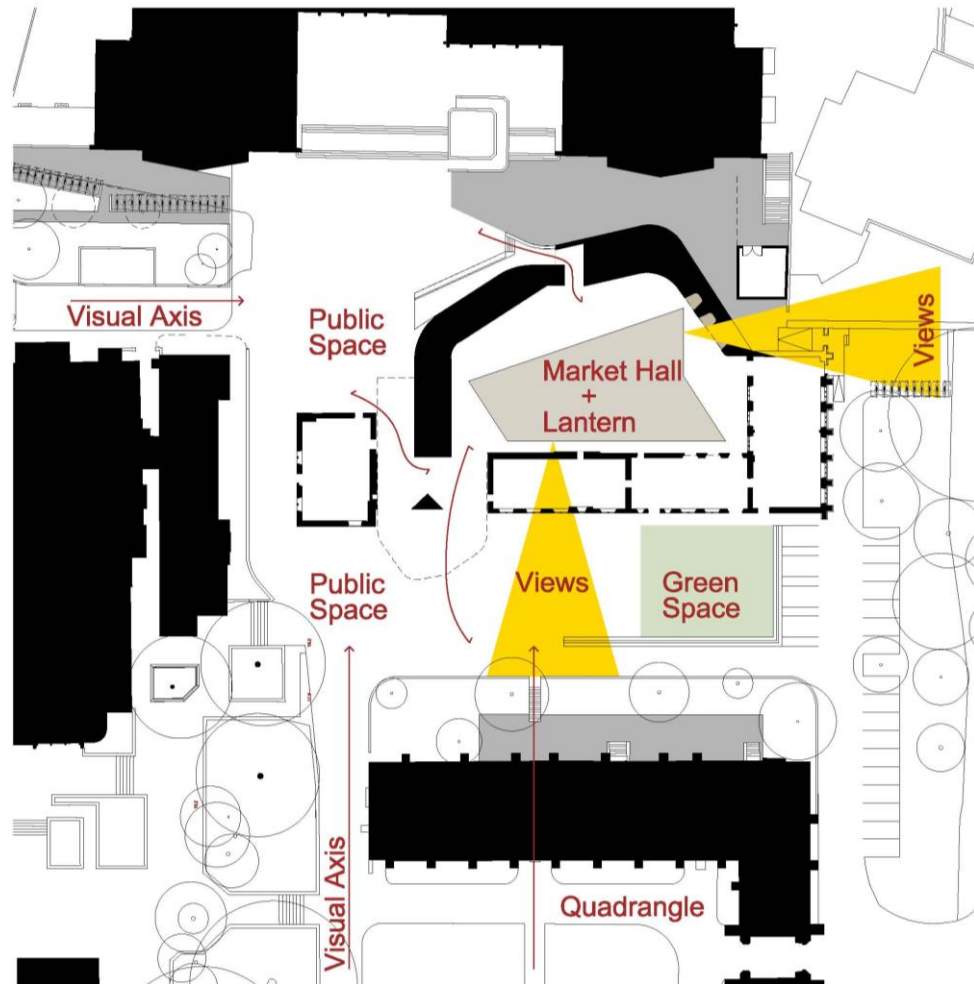
Views Out



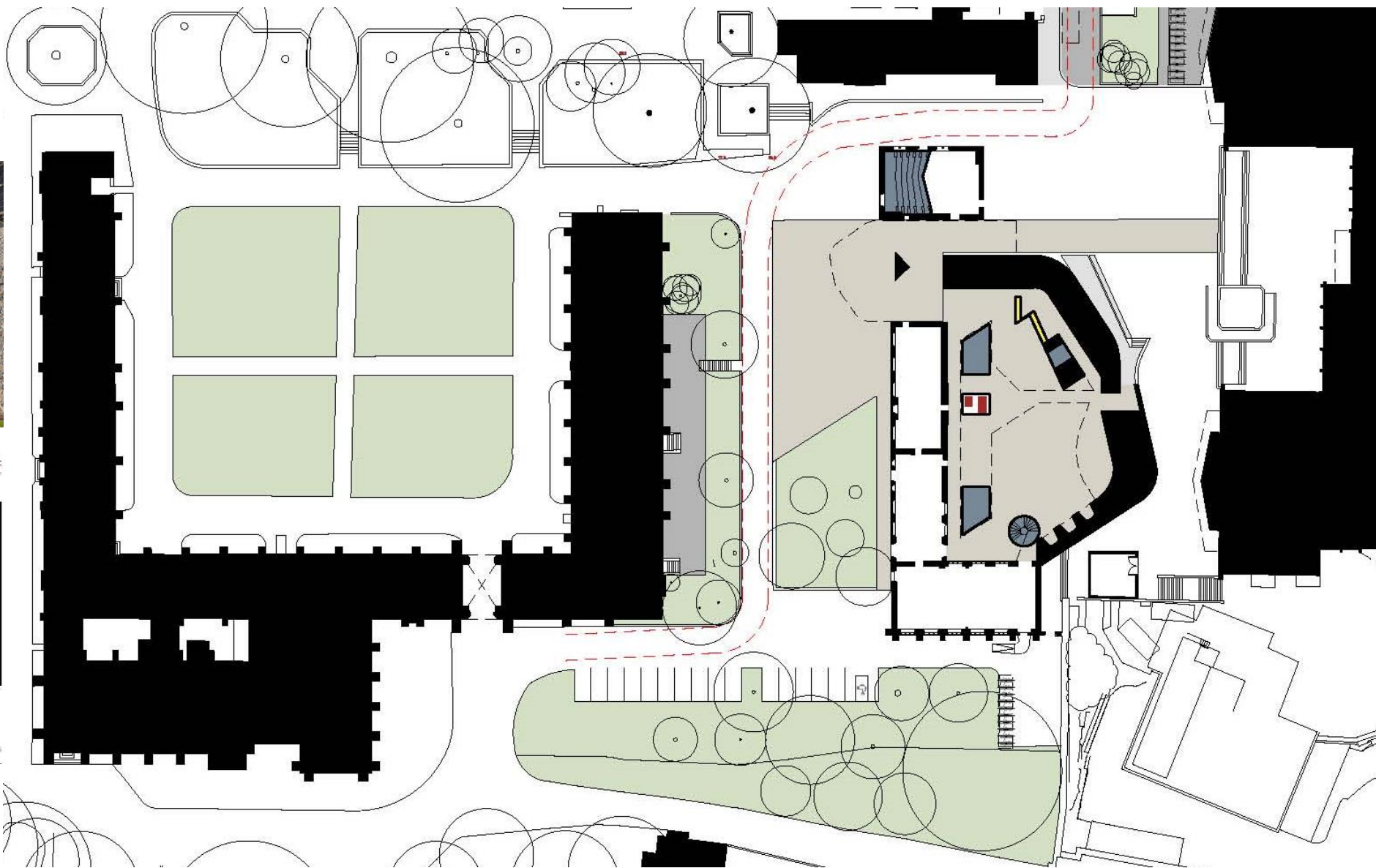
Material Palette



New Route



Landscape



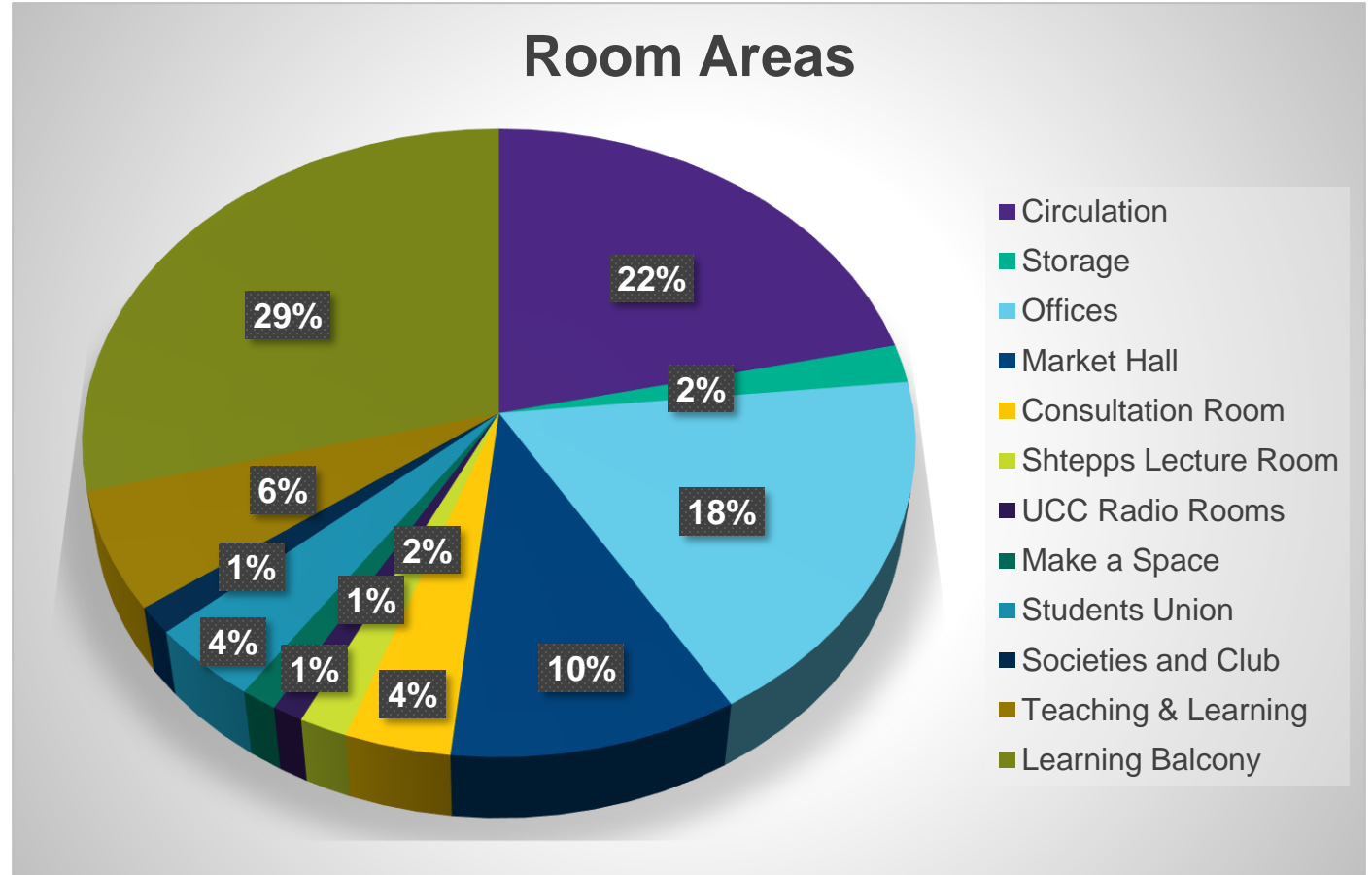
Room Areas

Total Building Area: 4,000m²

Total Area of Site 0.93272 ha

57% of the grounds are accessible to the Community

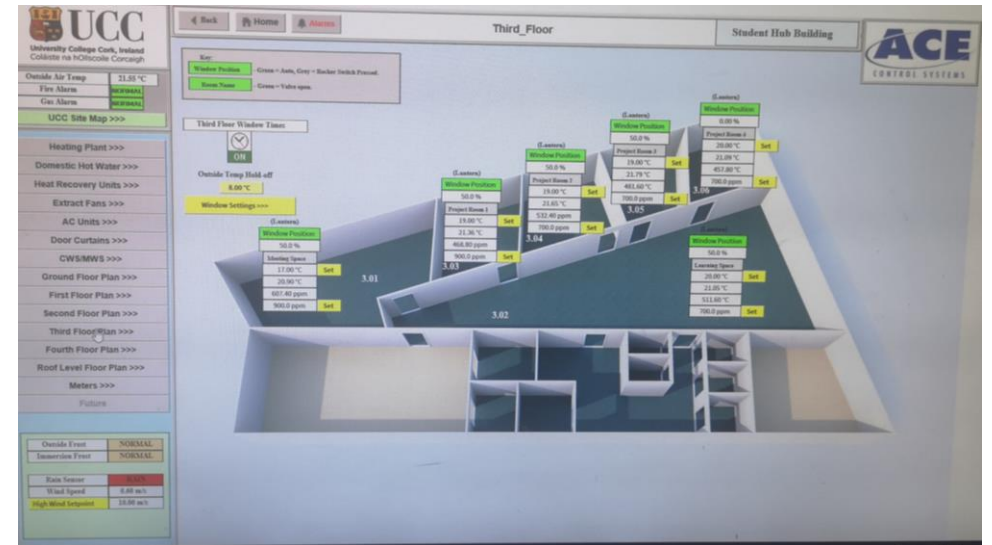
36% of the building floor area is accessible to the Community



M&E Services

Ventilation Systems

- Naturally Ventilated Building
- BMS Controlled
- Exposed Concrete walls and ceilings for large thermal mass
- Local controller for override of window position
- Heat Recovery system for toilets and maker space
- AC systems for Comms room and societies and clubs



M&E Services

Heating Systems

- Supply from District Heating System
- Existing Combined Heat & Power
- Underfloor heating system in the Market Hall
- Radiators in the Windle Building and Stair Cores
- Trench heating in the new-build Lantern
- Radiant Heating in the Shteppe



M&E Services

Electrical Systems

- Maximise natural light throughout the building
- Occupant and daylight sensors
- High efficiency LED lights used
- Energy monitoring linked to the BMS



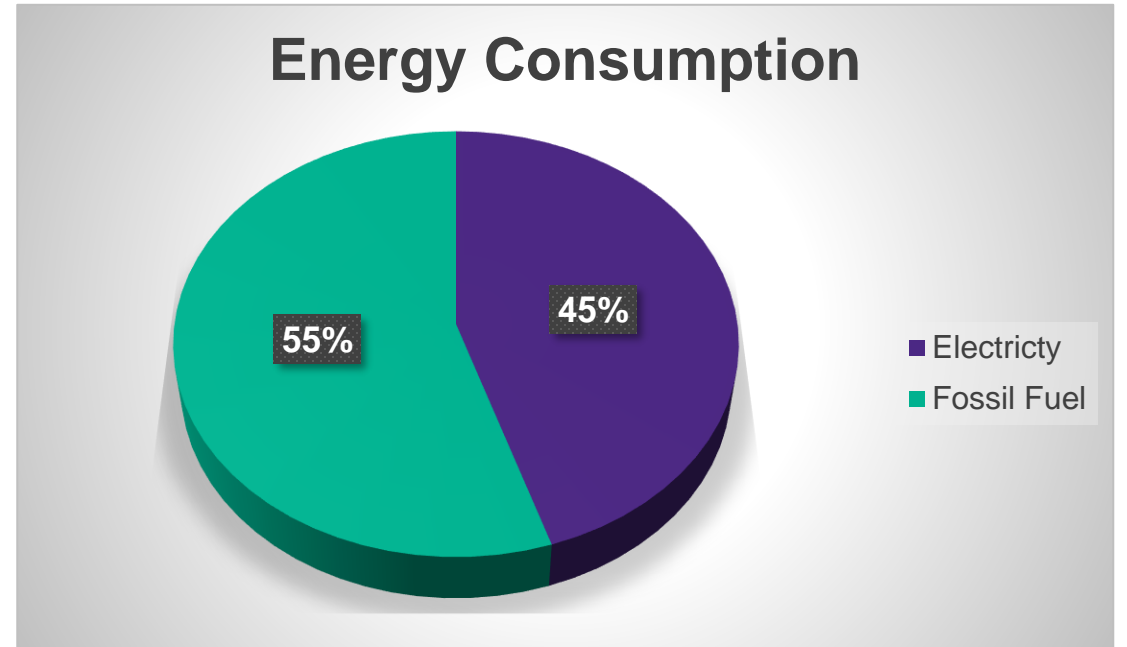
Green Roof

- Additional Thermal insulation
- Extends the roofs lifespan
- Provide habitat for birds and insects
- Filter airborne particles
- Reduce storm-water runoff



Energy Use & Carbon Emissions

- Predicated Electricity Consumption 137kWh/m²
- Predicted Fossil Fuel Consumption 166 kWh/m²
- Predicted Water Consumption 3.97 m³/person/year
- Natural Ventilation carbon savings 14.42 tonnes
- CHP over traditional heating saves 57.02 tonnes
- Total Carbon savings of 72 tonnes - the equivalent annual consumption of 25 diesel cars*



* Based on annual travel of 23,700 km and 120.7 g/CO₂ /km
SEAI Energy in Transport report 2014

Costs

- Total Costs €16.5m
- M&E Works €4.1m
- Siteworks €1.3m
- Building Costs €11.1m

