

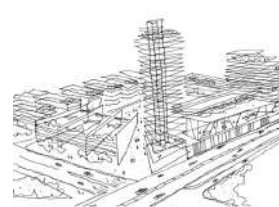


BIM And Creativity

David Roden Architects

Introduction

David Roden Architects



25 Strong Architectural Practice

Established in 2010

Employee Owned Practice (EOT)

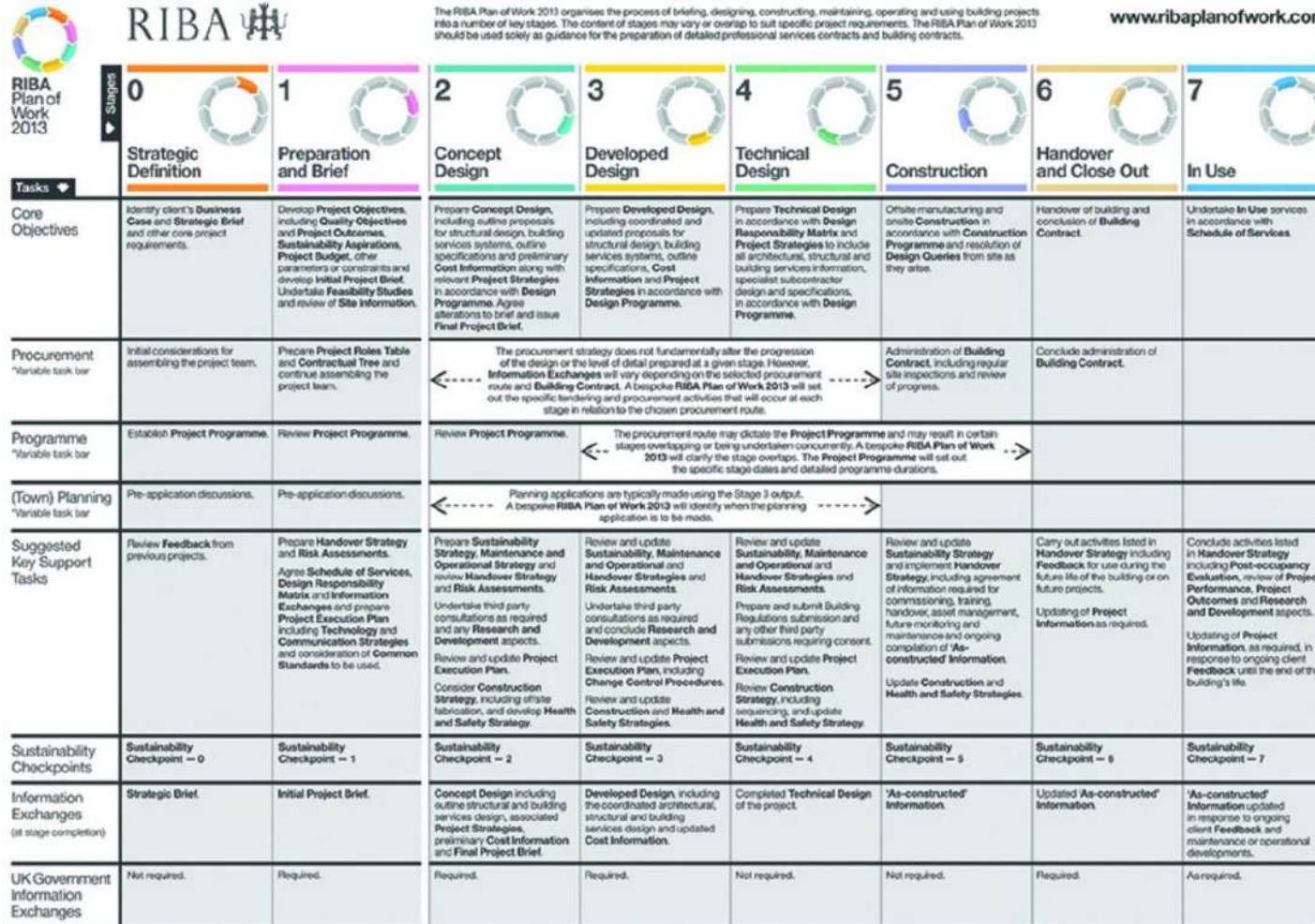
- Architecture and Interior Design
- Masterplanning and Urban Design.
- Façade Design
- New Build and Refurbishment
- Mixed Use and Urban Renewal
- Offices and Technology Parks
- Education and Research Buildings
- High Density Residential
- Student Housing

Work in London UK and Internationally Including Russia, India, Middle East and Europe.

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Where Does BIM Come Into The Design Process

RIBA Plan of Work



Stage 0 – Strategic Definition

Identify clients business case and brief and other core project requirements.

Stage 1 – Preparation and Brief

Undertake feasibility studies and review site information. Develop project objectives; including quality, project outcomes, sustainability aspirations, project budget, other parameters or constraints and develop initial project brief.

Stage 2 – Concept Design

Prepare concept design, including outline proposals for structural design, building services, outline specifications and preliminary cost information along with relevant project strategies in accordance with design programme.

Agree alterations to brief and issue final project brief.

Stage 3 – Developed Design

Prepare developed design including coordinated and updated proposals for structural, building services, outline specifications, cost information and project strategies in accordance with the design programme.

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Where Does BIM Come Into The Design Process

RIBA Plan of Work

Stage 4 – Technical Design

Prepare technical design in accordance with the design responsibility matrix and project strategies to include architectural, structural, building services information, specialist subcontractor design and specifications in accordance with the design programme.

Stage 5 – Construction

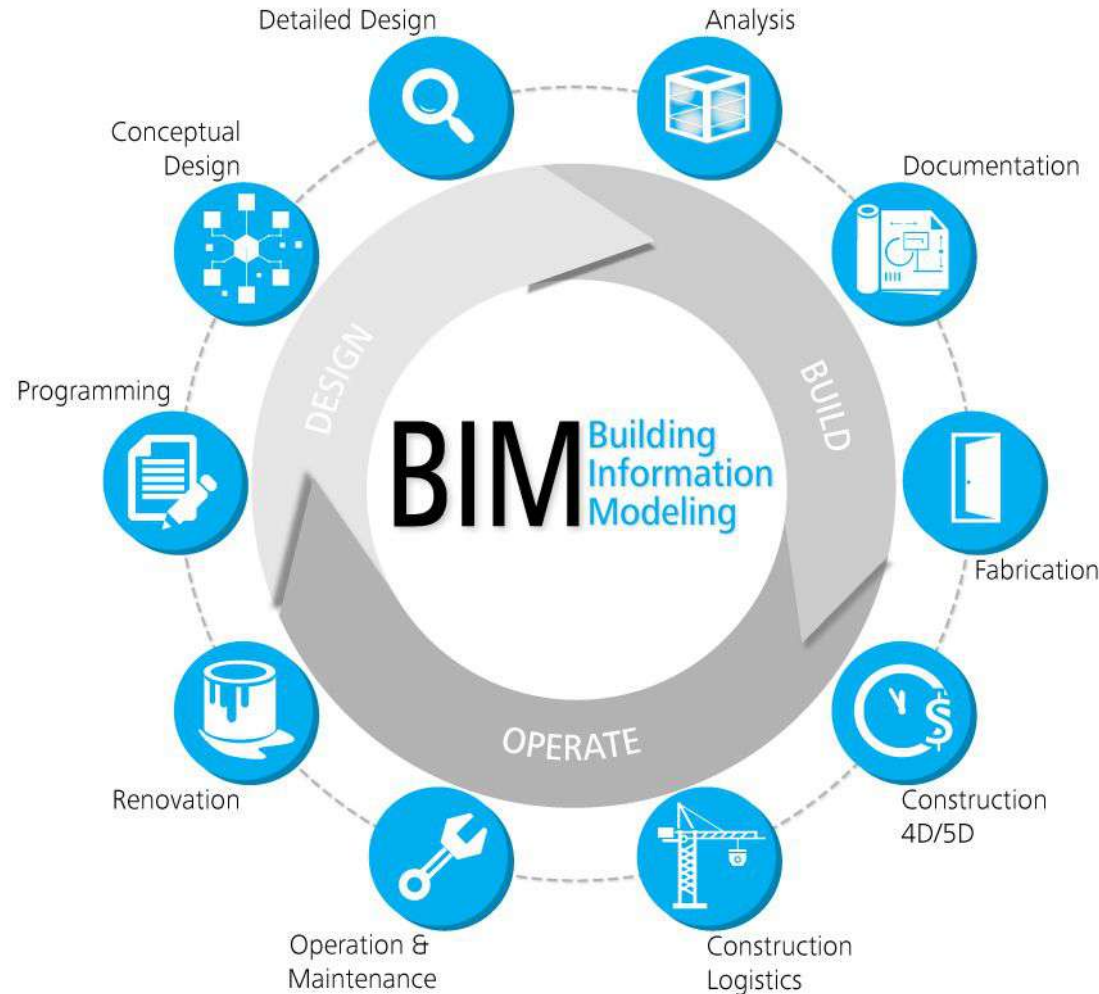
Offsite manufacture and onsite construction in accordance with the construction programme and resolution of design queries from site as they arise

Stage 6 – Handover and Close Out

Handover building and conclusion of building contract.

Stage 7 – In Use

Undertake 'in use' services and conclude activities within the handover strategy, including post occupancy evaluation, review of project performance and project outcomes.

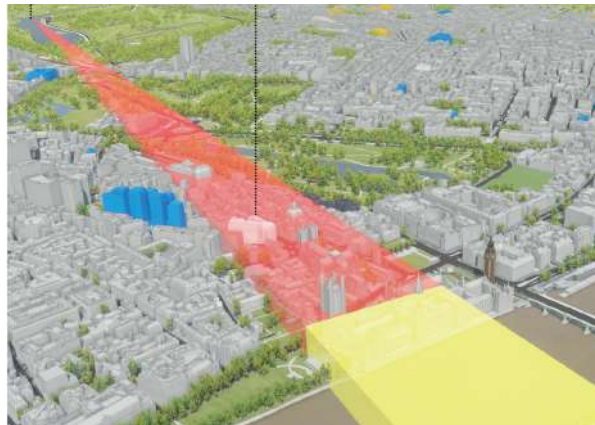
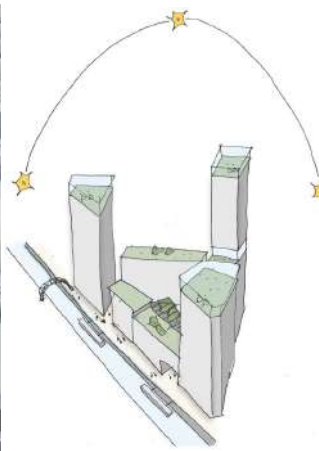


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How We Use Technology in The Design Process

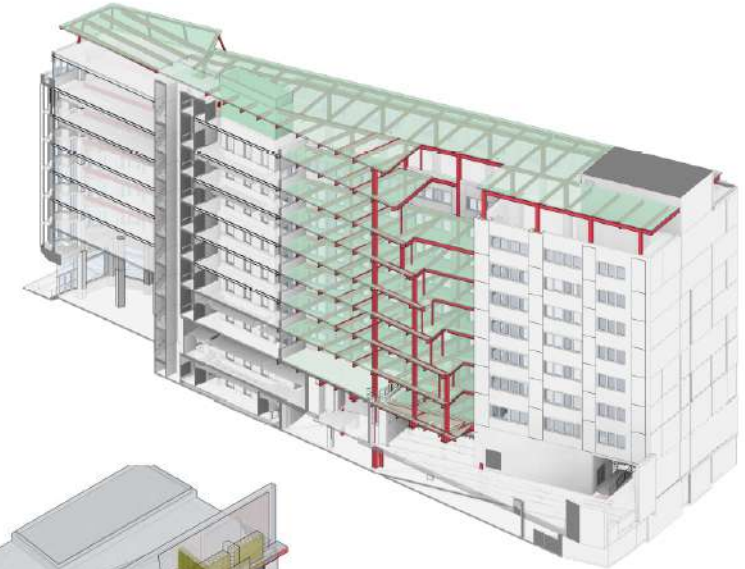
Stages Pre Design and Concept Stages

- Sketch-UP
- Rhinoceros
- VUCITY Digital Mapping Model
- Hand Sketching



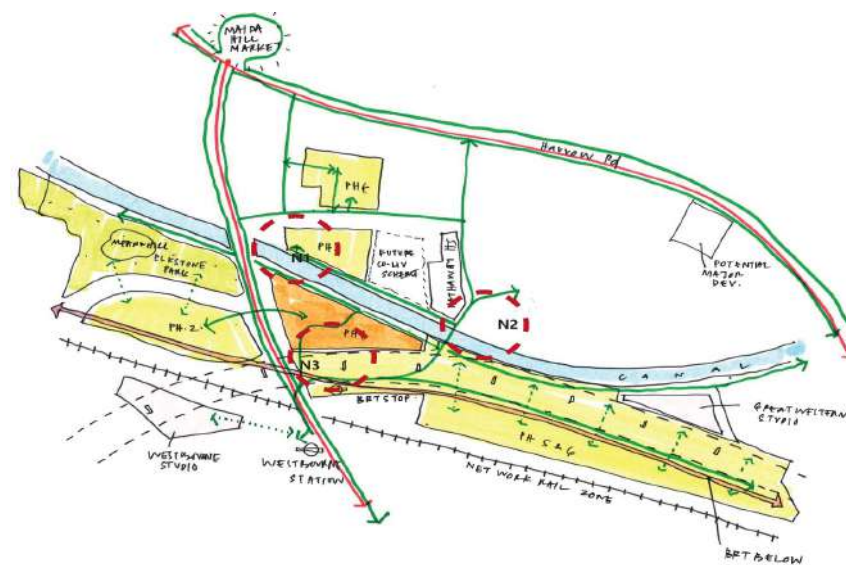
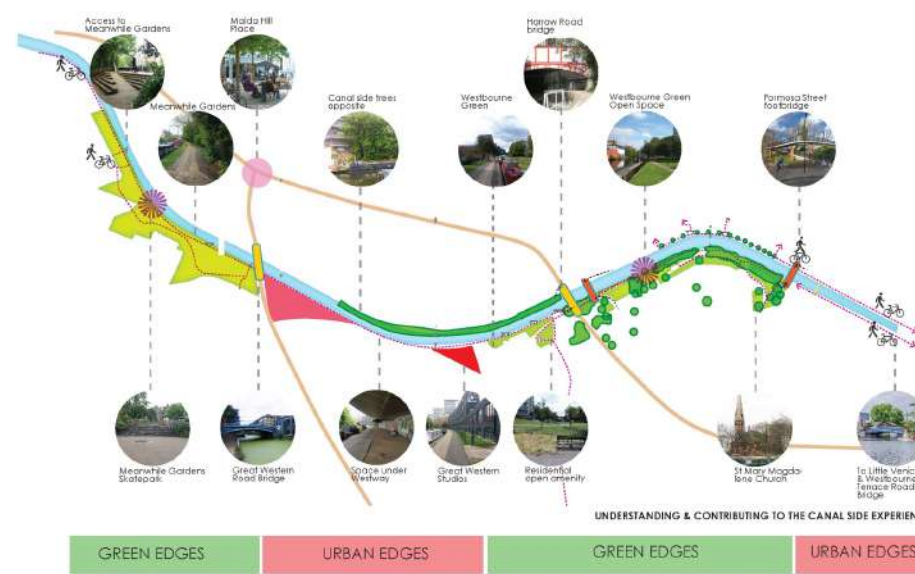
Developed, Technical Design and Construction Stages

- AUTOCAD
- REVIT



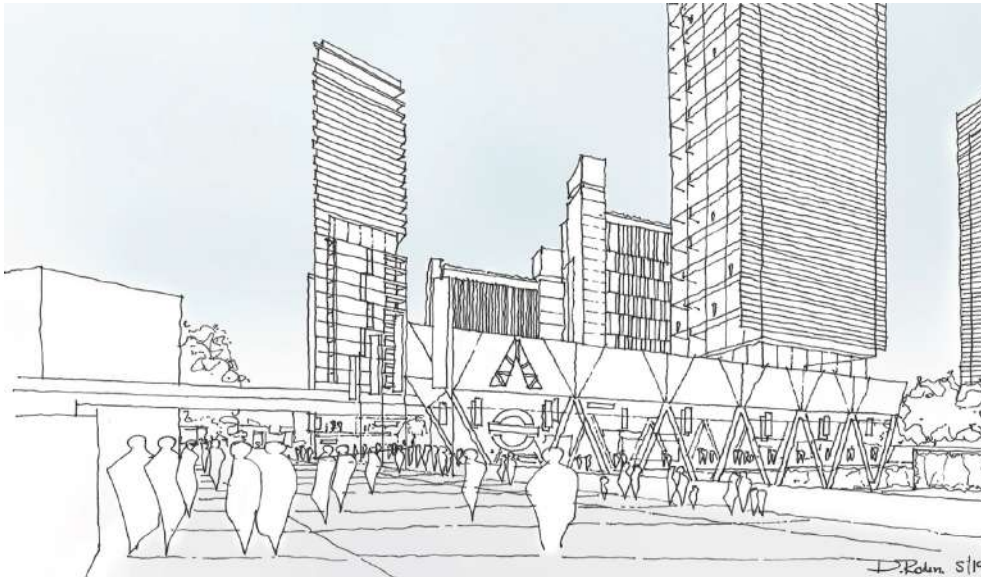
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Brief and Strategic Definition Stage 0-1



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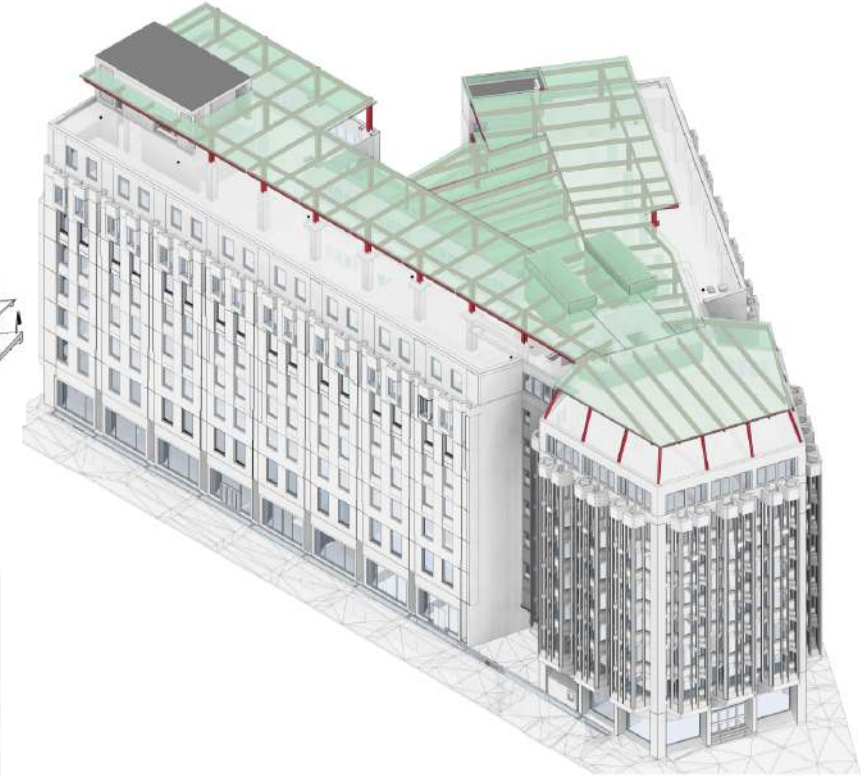
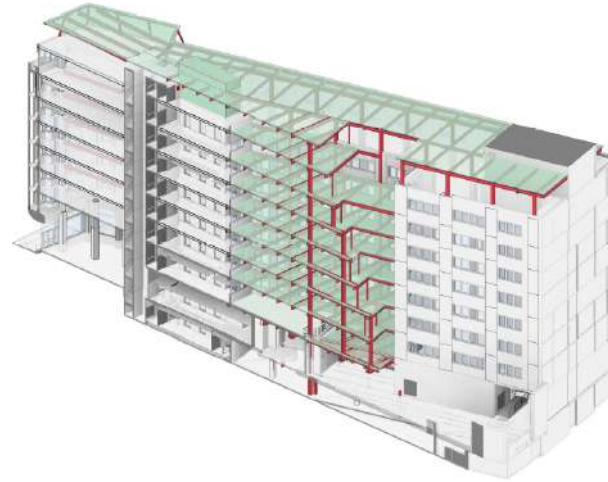
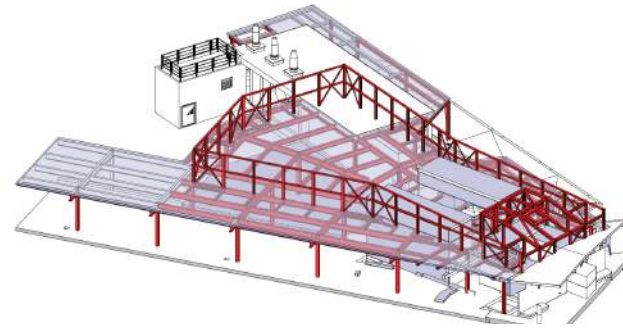
Concept Design – Stage 2



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Developed Design – Stage 3

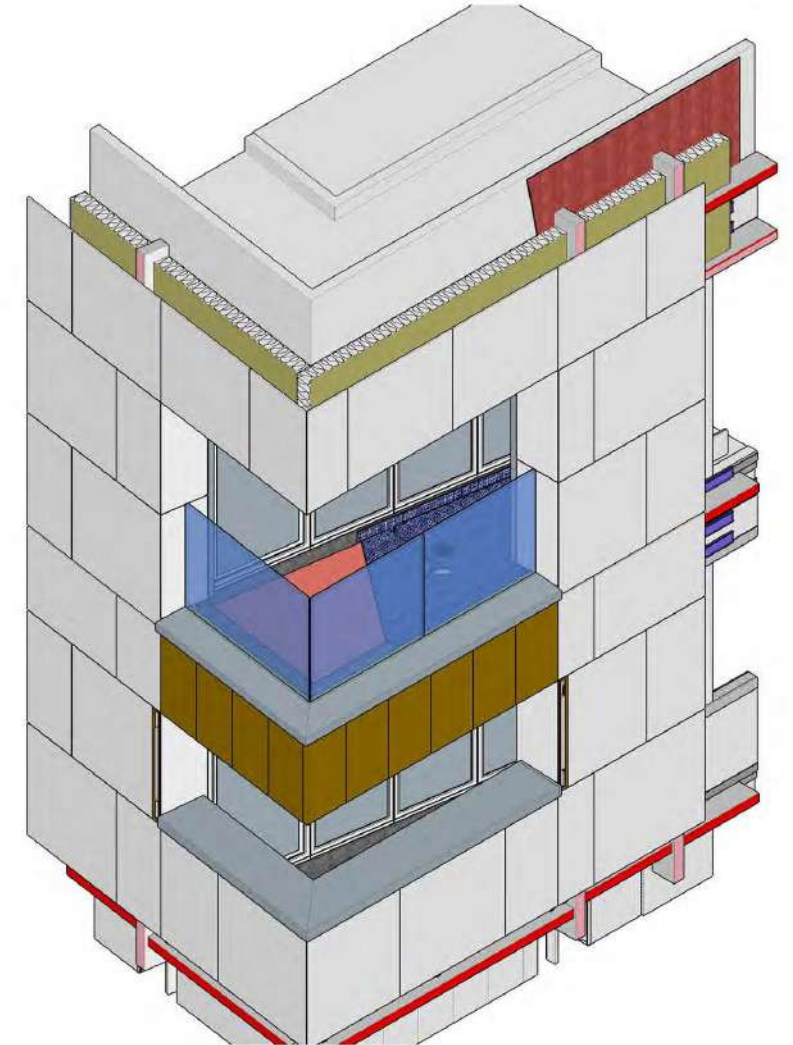
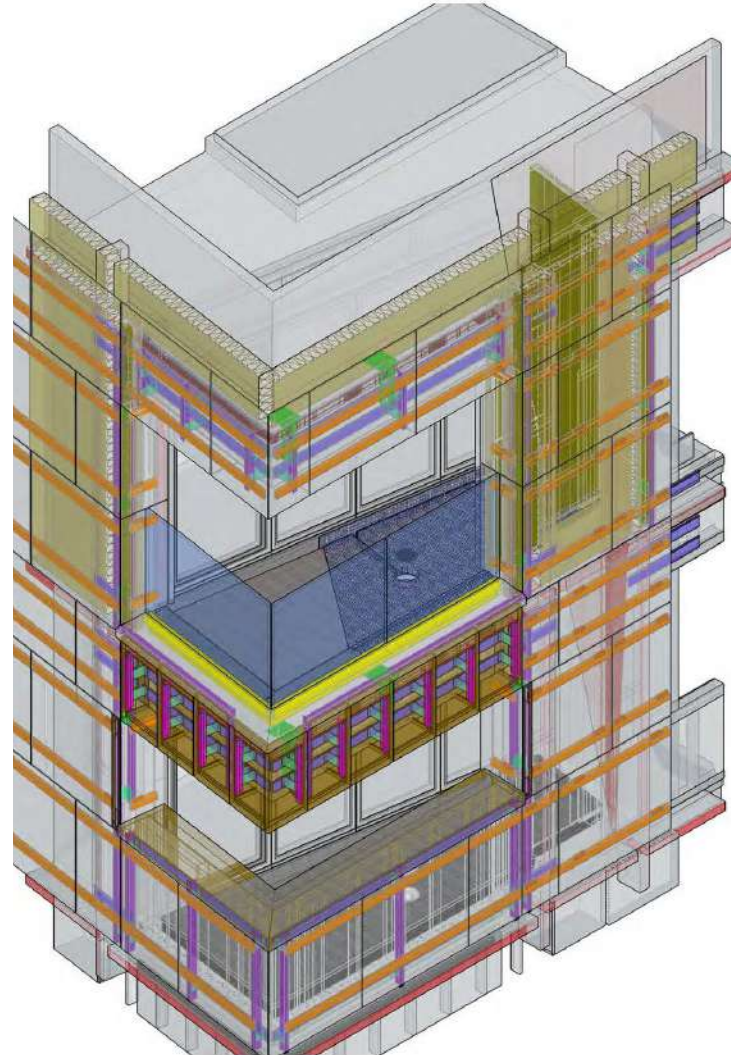
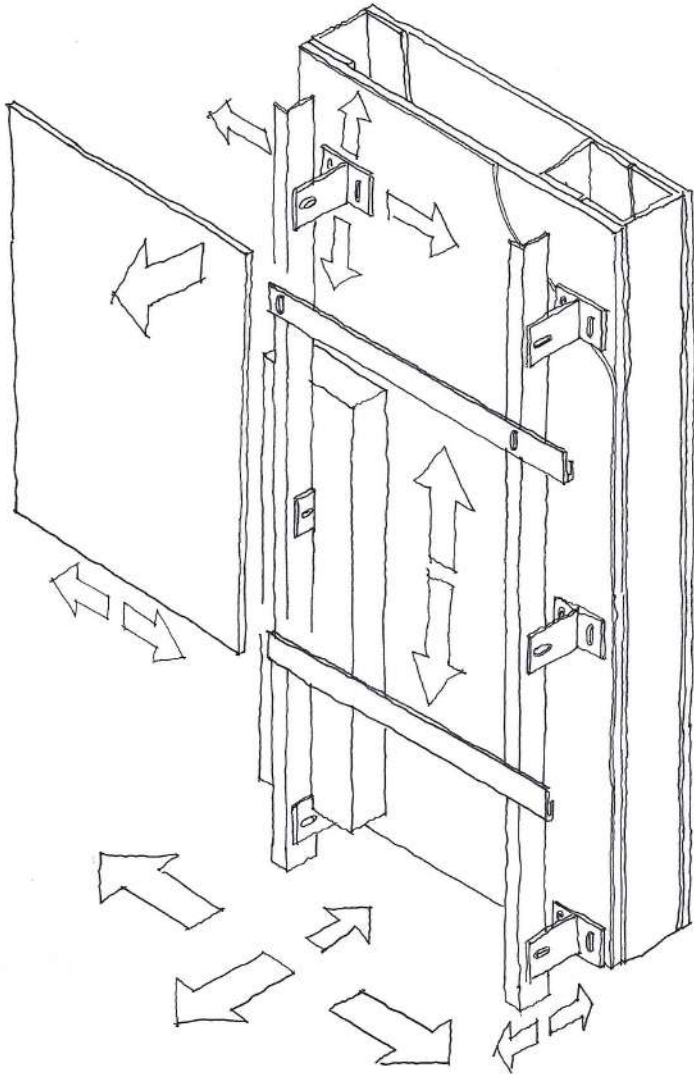
- Early Coordination Of Structure and Services
- Clash Detection
- Cost And Programme Analysis



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Technical Design – Stage 4

- 3D Technical Design and Co-ordination
- Integration of Contractor Design Information
- Cost And Programme Analysis



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BIM Conclusions



- Early Use Of BIM To Integrate Feasibility Design With VU-CITY
- DRA At Forefront Of Use of VU-City in UK
- Fast Analysis of Urban Context and Parameters

In The Digital Age Of CAD, BIM and 3D All The Design Software We Use Are Just Tools For The Imagination.

As Architects Need A Balance of Design and Technical Skills Creative Flair Still Requires Ability To Draw and Sketch By Hand

'A great building must begin with the unmeasurable, must go through measurable means when it is being designed and in the end must be unmeasurable'.

Louis Kahn

