CCE

CCE ARCHITECTURAL

DRAFTING SERVICES

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OUR SERVICES



ARCHITECTURAL



INTERIOR DESIGN



STRUCTURAL ENGINEERING



PARTY WALL SURVEYORS



PROJECT MANAGEMENT

COMMERCIAL

1. Surveys

2. Existing Drawings

3. Proposed Drawings (Plans, Elevations, Sections)

4. Technical Details (Lighting, Heating, Access, Flooring, Acoustics)

5. Fire Exit Design and Compliance

6. Planning Permission Applications

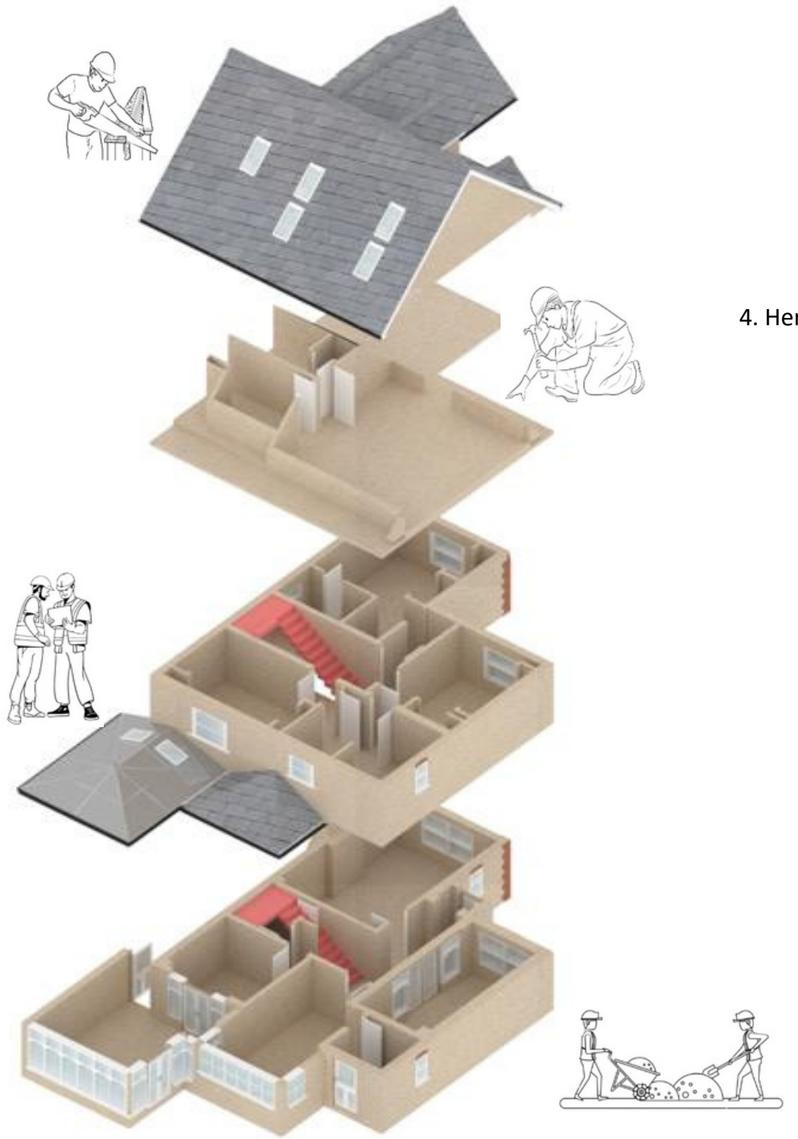
7. Interior Space Planning and Optimization

8. Building Regulation Compliance

9. Energy Efficiency and Sustainability Reports

10. Material Specification and Procurement

11. 3D Modelling and Rendering



RESIDENTIAL

1. Survey

2. Existing Drawings

3. Proposed Drawings (Plans, Elevations, Sections)

4. Heritage Statements (for listed buildings or conservation areas)

5. Thames Water Agreements

6. Drainage Strategy

7. Flood Risk Assessments

8. 3D Modelling and Rendering

9. Interior Design and Finishes Selection

10. Landscaping and Outdoor Space Planning

11. Party Wall Matters

Commercial Projects

Pg 1-10

Residential Projects

Pg 11-27

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- GHL Head Office & Distribution Control Centre **7-10**
- Home Extension in Winchmore Hill **12-17**
- Home Extension in Enfield **18-22**
- New Build in Essex **23-27**

Commercial Projects



OFFICE REFURBISHMENT IN LEICESTER SQUARE

BUILDING ELEVATIONS



FRONT ELEVATION



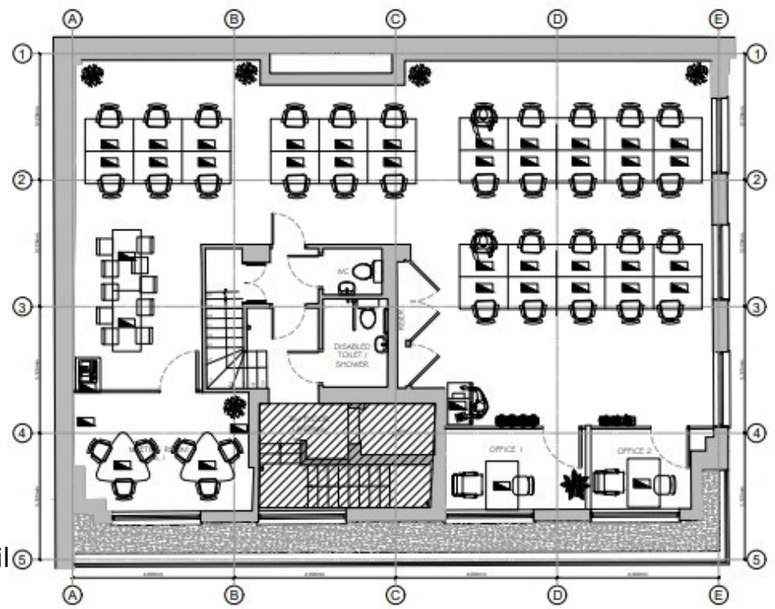
SIDE ELEVATION

PROPOSAL

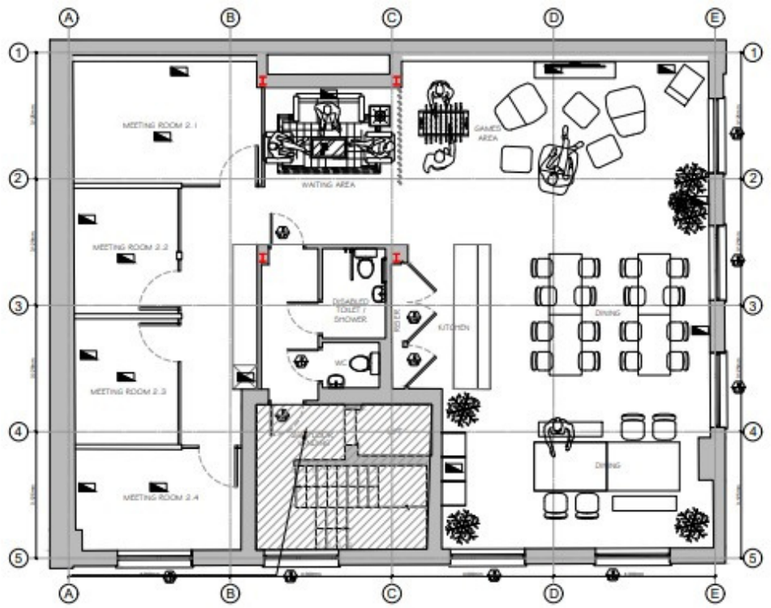
The project involved the refurbishment of a three-story office building in Leicester Square, London, transforming it into a modern and efficient workspace with contemporary layouts, upgraded systems, and high-quality finishes.

It is a three-story office space involved a comprehensive transformation to create a modern and efficient workplace. Space planning was a key focus, optimizing layouts for functionality and collaboration. The project included a complete redesign of electrical and mechanical systems to enhance efficiency and sustainability. Fire safety upgrades, such as the installation of signage and a sprinkler system, ensured compliance with current regulations. Additionally, a fully equipped kitchen was designed to support the needs of a contemporary office. An extensive survey was conducted to ensure accurate execution and attention to detail throughout the project.

MATERIAL AND ELECTRICAL PLAN



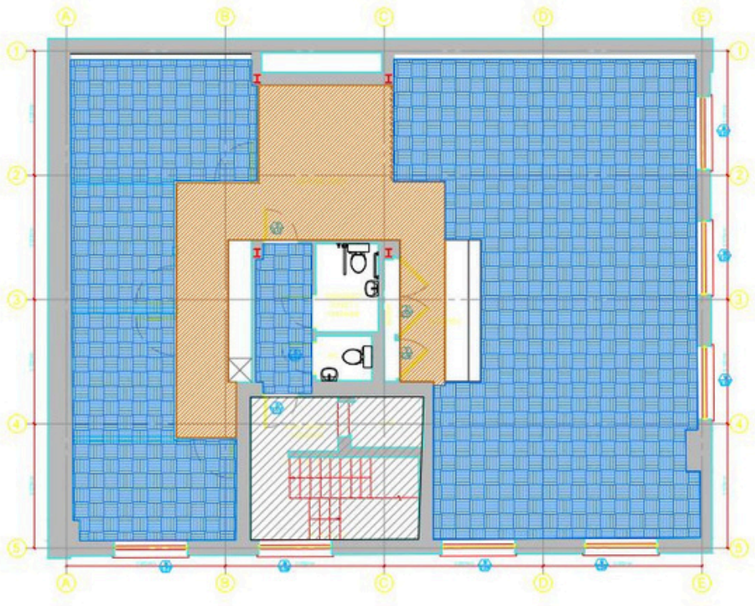
2nd FLOOR PLAN



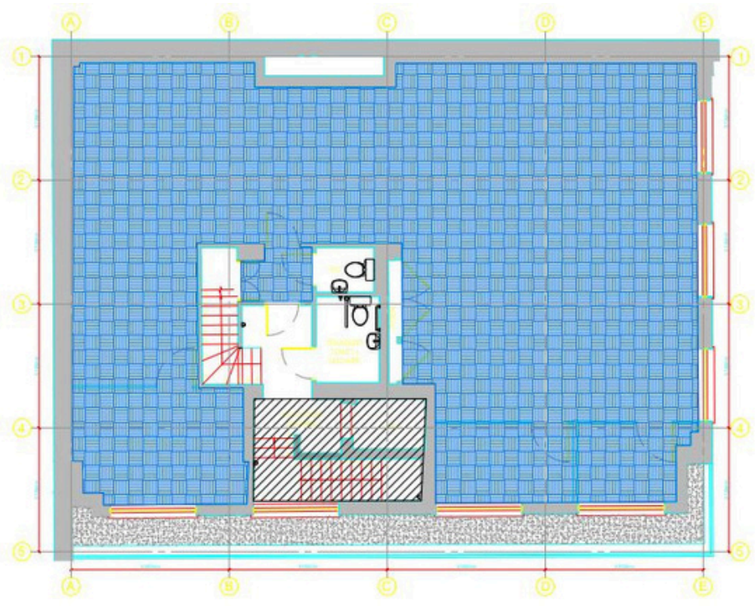
3rd FLOOR PLAN

OFFICE REFURBISHMENT IN LEICESTER SQUARE

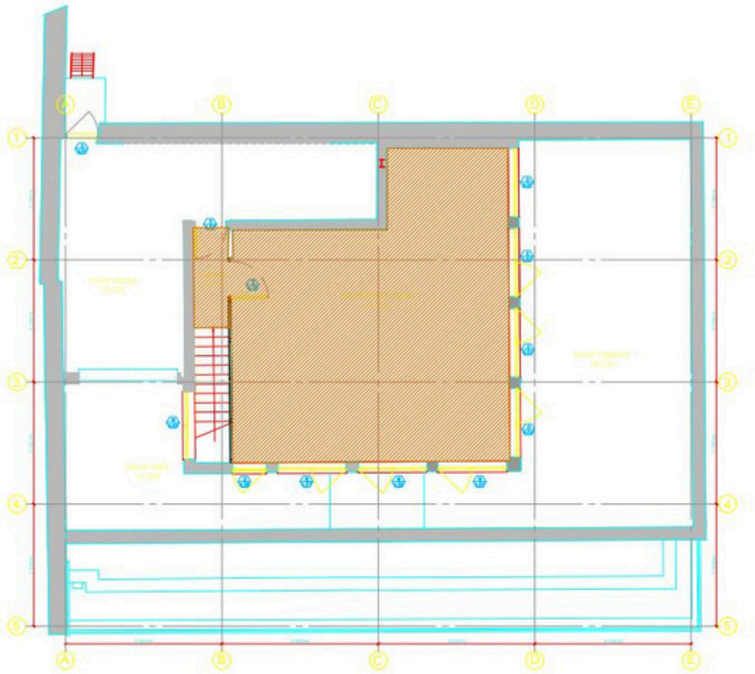
FLOORING PLAN



2nd FLOOR PLAN

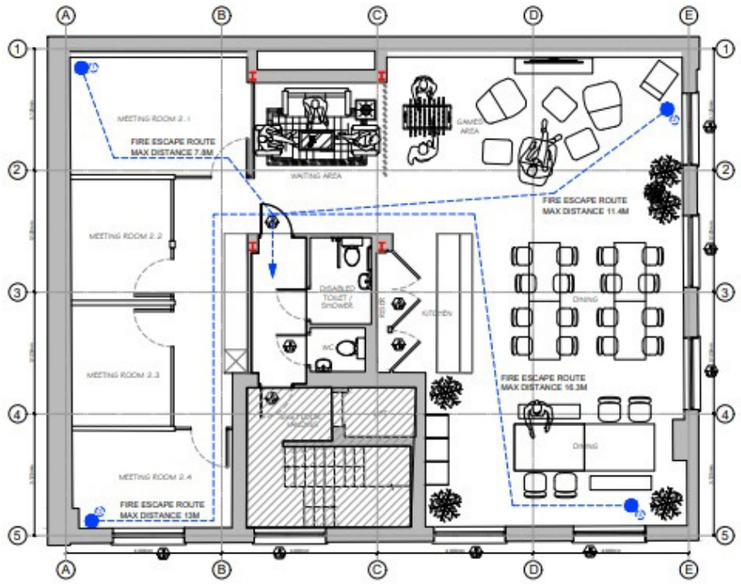


3rd FLOOR PLAN

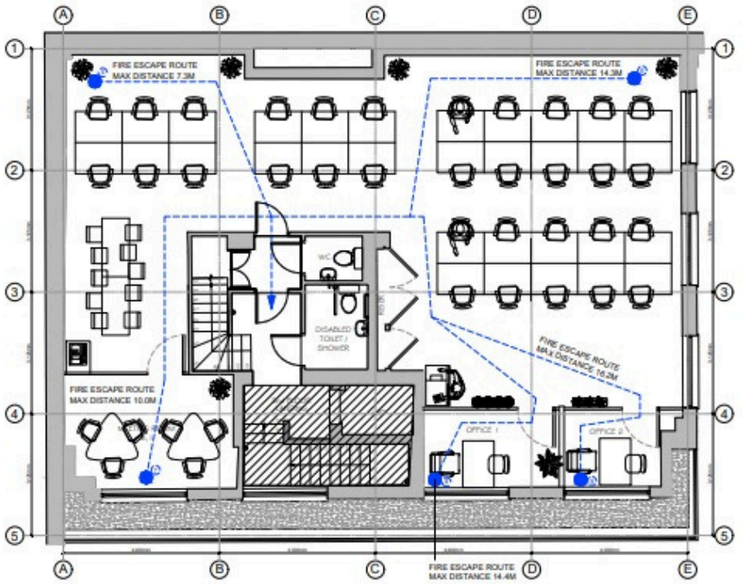


4th FLOOR PLAN

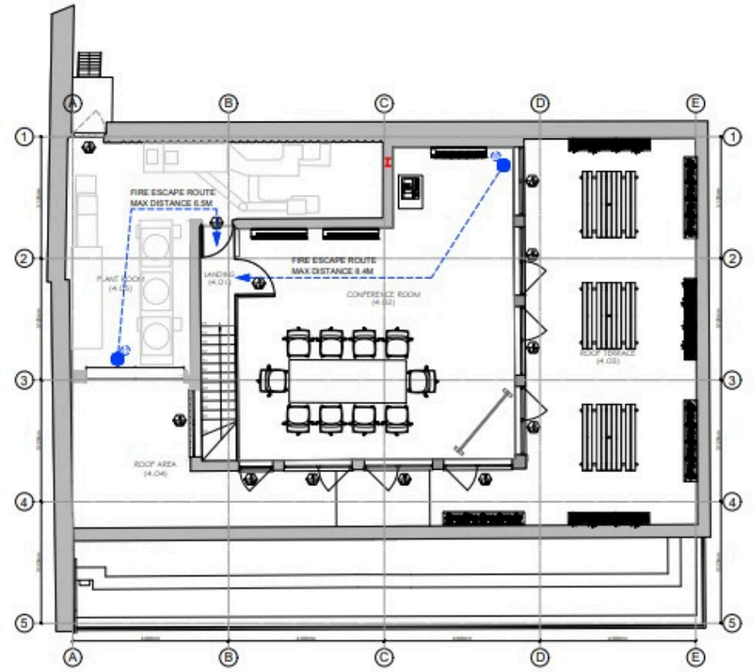
FIRE ESCAPE ROUTE



2nd FLOOR PLAN



3rd FLOOR PLAN

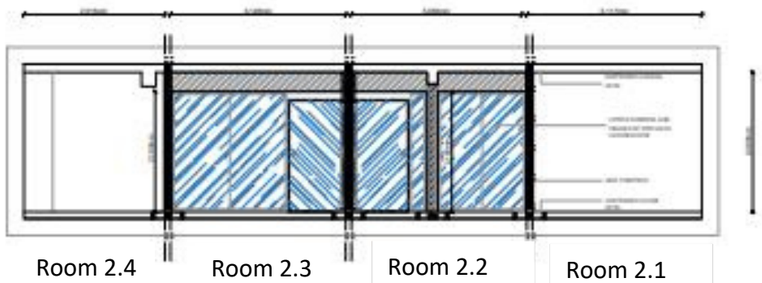


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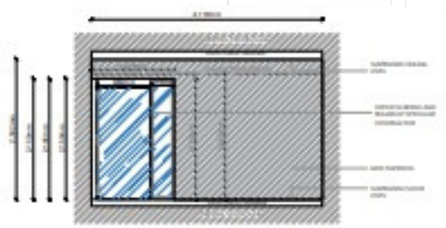
OFFICE REFURBISHMENT IN LEICESTER SQUARE

MEETING ROOMS

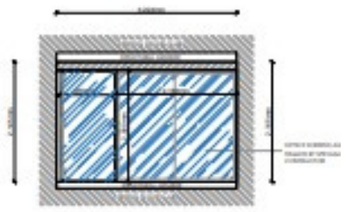
The meeting rooms were designed to combine functionality and style, offering a modern and professional environment for collaboration. Space planning played a crucial role in optimizing the layout, ensuring efficient use of available space while accommodating the client's requirements. Custom glass panels were designed and manufactured to create sleek partitions that maintain an open feel while providing the necessary separation. These glass installations not only enhance the aesthetic appeal but also integrate acoustic treatments, ensuring a balance between openness and privacy within the meeting rooms.



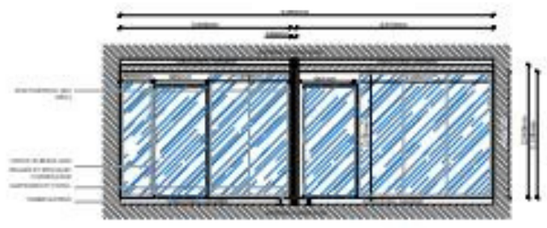
Room 2.4 Room 2.3 Room 2.2 Room 2.1



Room 2.4

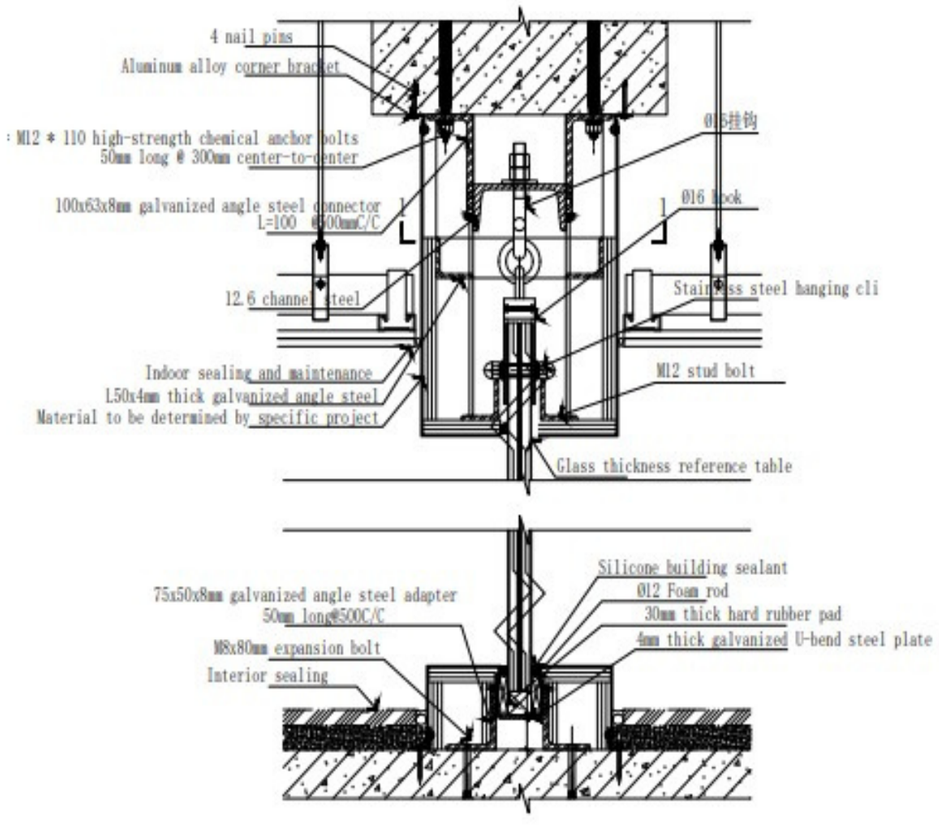


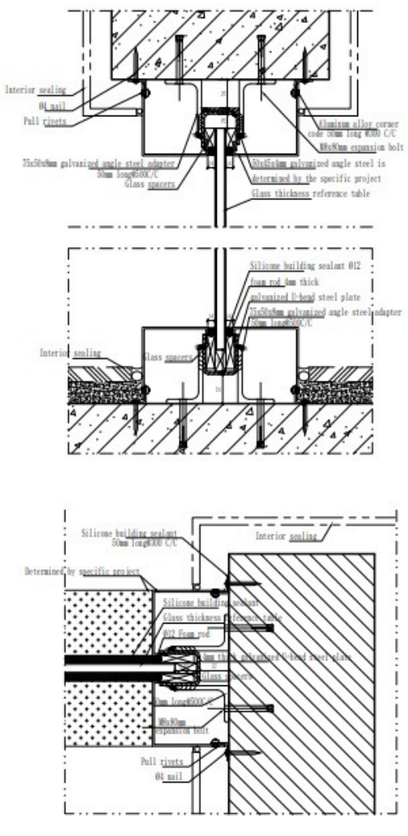
Room 3.1

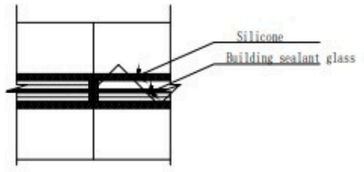


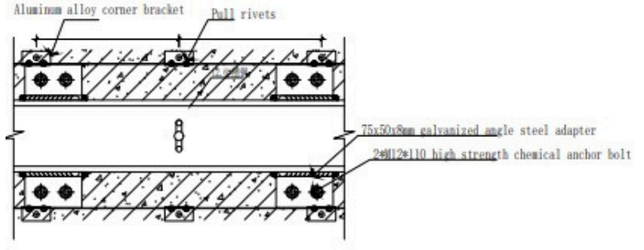
Office 1 Office 2

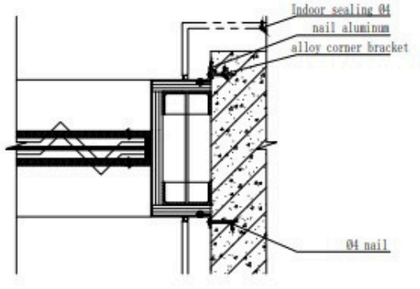
SECTIONAL DETAILS





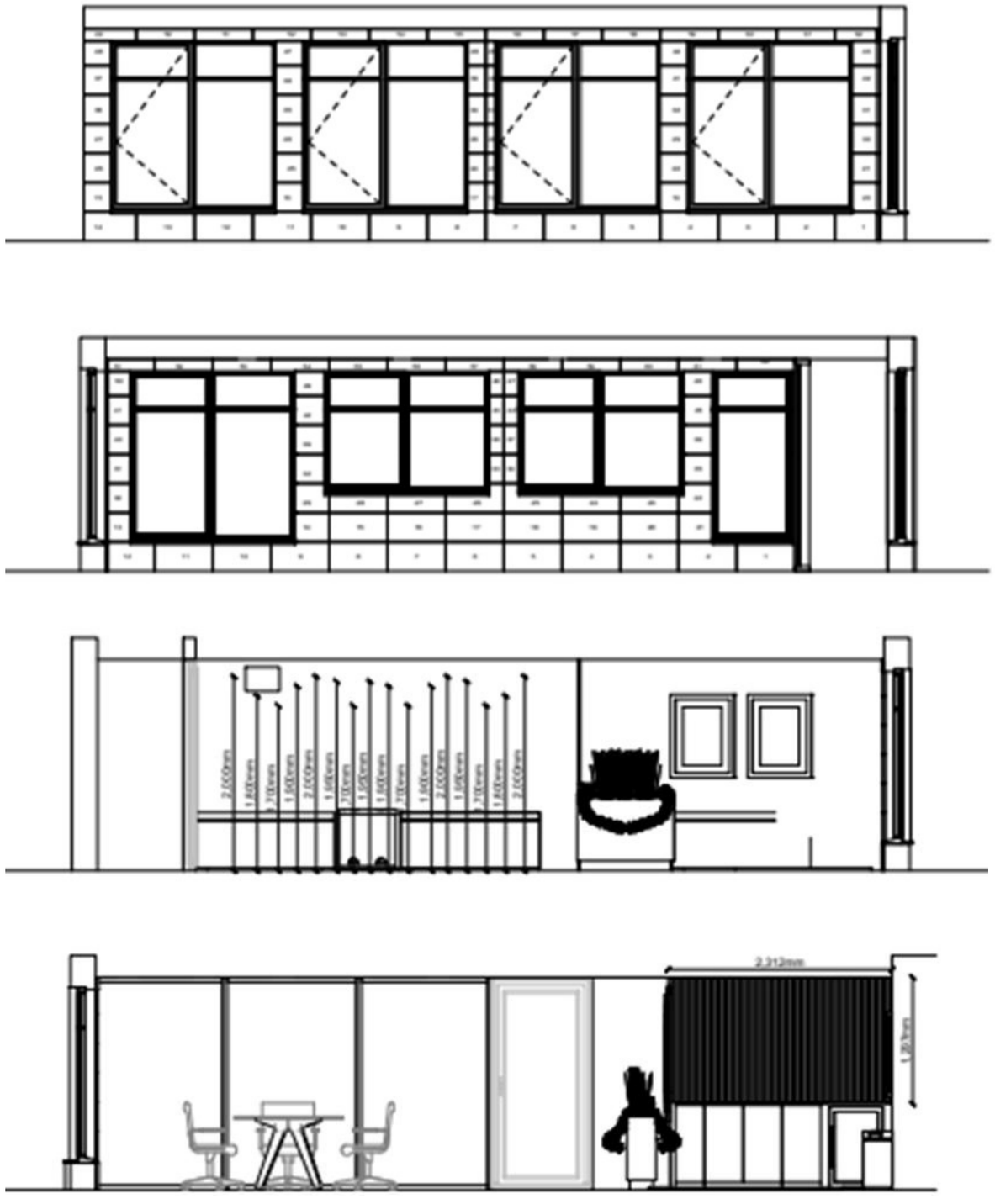






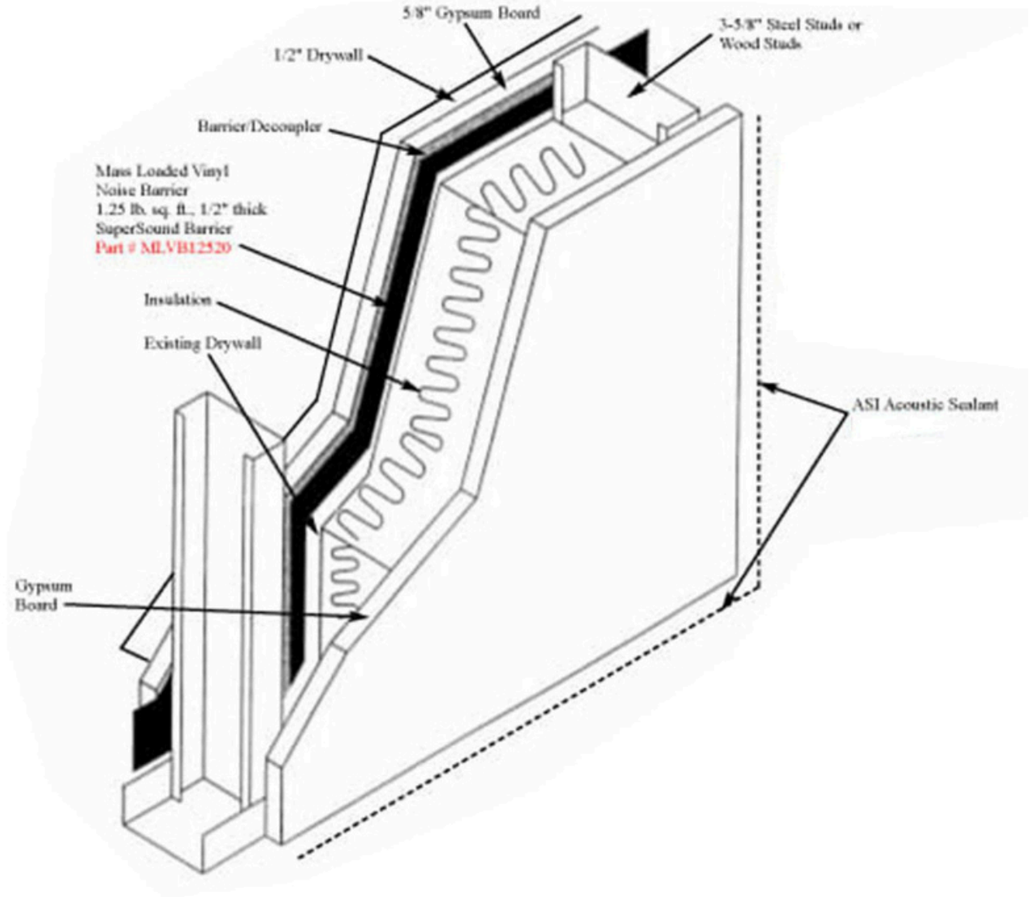
OFFICE REFURBISHMENT IN LEICESTER SQUARE

SOUND AND ACOUSTIC PANEL DESIGN



The building's acoustic performance was significantly improved to address previous issues with sound clarity and noise control

- Advanced acoustic treatments were implemented throughout the space, including wall panels, ceiling systems, and noise-dampening materials, to create a more comfortable and productive working environment.
- In the meeting rooms and other key areas, these enhancements ensure clear communication, reduced echo, and minimized external noise disruptions, aligning the building's performance with modern standards for workplace acoustics.

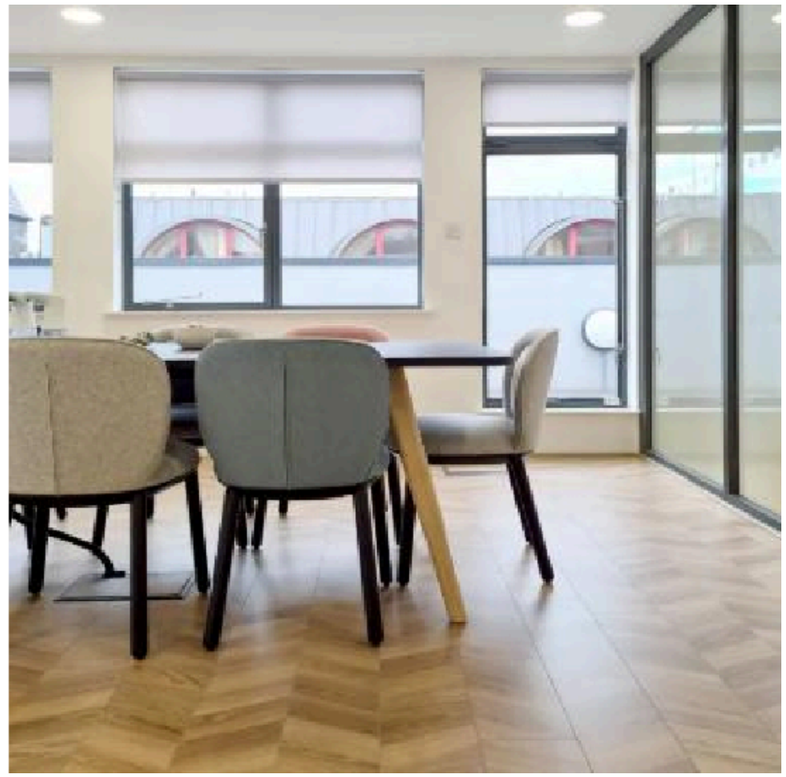


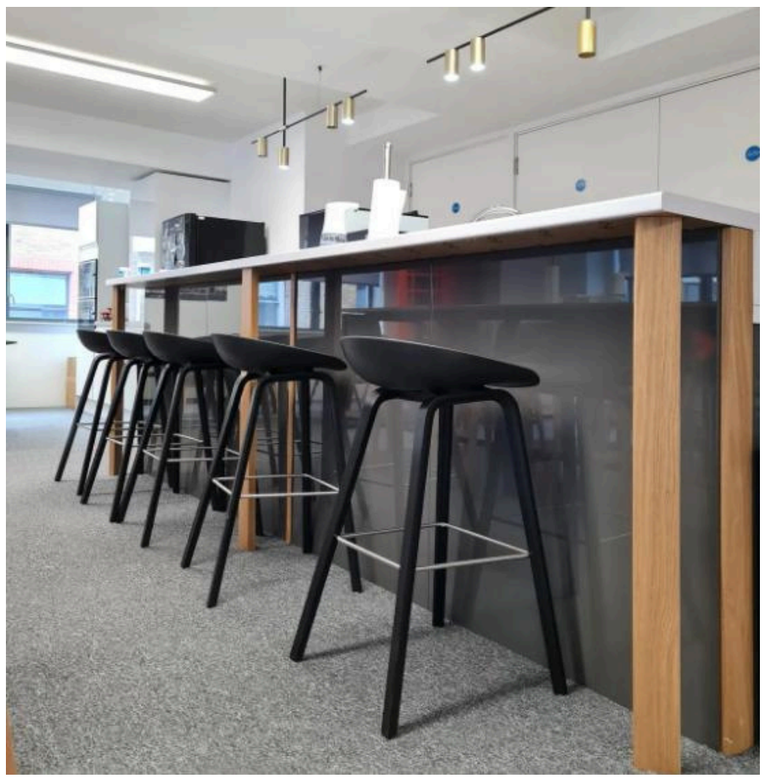
OFFICE REFURBISHMENT IN LEICESTER SQUARE

COMMERCIAL PROJECT PHOTOS

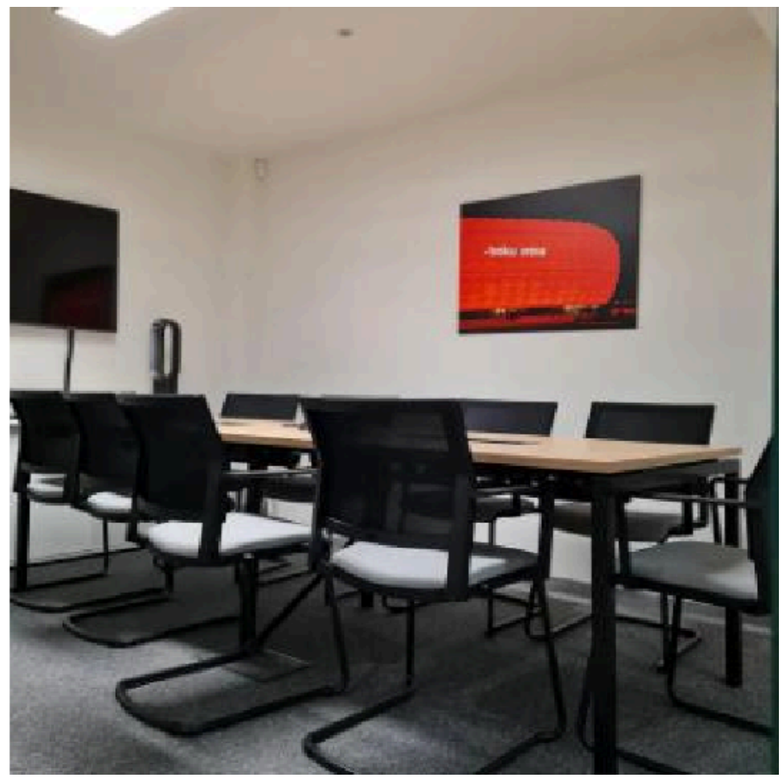












GHL HEAD OFFICE & DISTRIBUTION CONTROL CENTRE



This project involved the comprehensive redesign and renovation of two distinct facilities for GHL in London: the transformation of an open warehouse into a fully operational distribution control centre and the modernization of the company's head office. These projects aimed to align the company's infrastructure with its strategic goals, enhance functionality, and foster a modern, collaborative environment for employees.

Project 1: Head Office Renovation in Angel

The head office redesign focused on creating a dynamic and collaborative workspace. Key features include:

- Spacious office areas tailored to modern work needs.
- Inviting café spaces to encourage informal interactions.
- A central outdoor courtyard designed to enhance employee wellbeing and foster interaction in a relaxing environment.

Project 2: Distribution Control Centre

Located in Docklands, this project transformed an open warehouse into a fully functional distribution control centre to support GHH's logistical operations. For detailed insights, please refer to page 9.

PLANS OF HEAD OFFICE



GROUND FLOOR



FIRST FLOOR

GHL HEAD OFFICE & DISTRIBUTION CONTROL CENTRE

GHL HEAD OFFICE PHOTOS







The interior design of the refurbished Head Office in Angel focused on creating a cohesive, modern, and functional environment. Each space was thoughtfully designed to balance practicality with aesthetics, fostering a sense of comfort and collaboration.

- **Employee Lounge Area:** A relaxing space crafted for employees to unwind and recharge during breaks. This area combines comfortable seating, soft lighting, and calming design elements to foster a sense of relaxation and community.
- **Lobby Spaces:** The lobby areas exude professionalism while maintaining a warm, inviting atmosphere using high-quality materials, ambient lighting, and thoughtfully curated décor.
- **Office Rooms:** These spaces were designed to promote productivity and focus, featuring ergonomic furniture, ample natural light, and subtle yet impactful design accents.

These interior elements collectively reflect a workplace that prioritizes employee wellbeing, collaboration, and style, tailored to meet the demands of a contemporary office environment.

GHL HEAD OFFICE & DISTRIBUTION CONTROL CENTRE

GHL DISTRIBUTION CENTRE PHOTOS

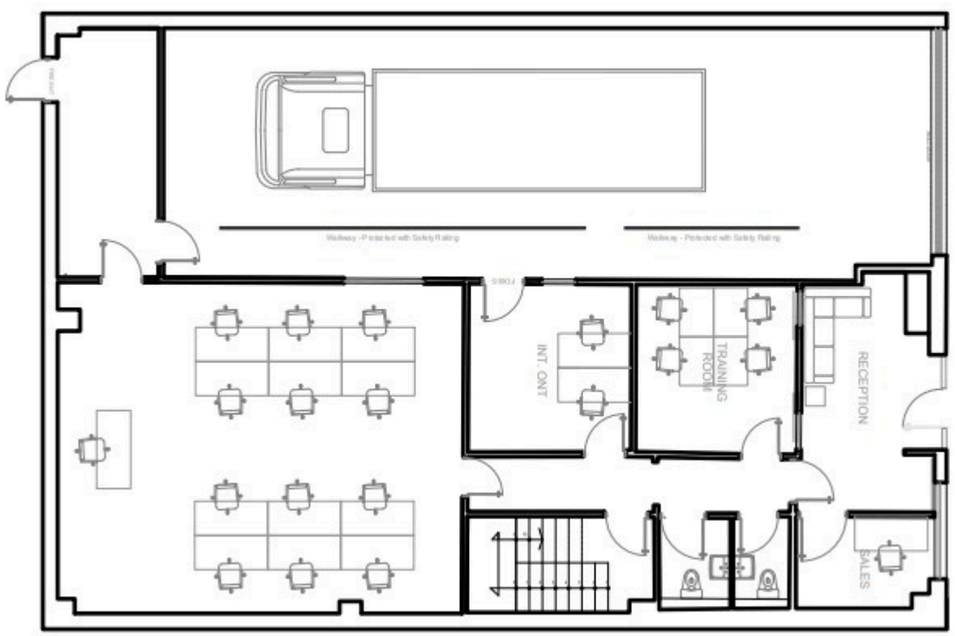




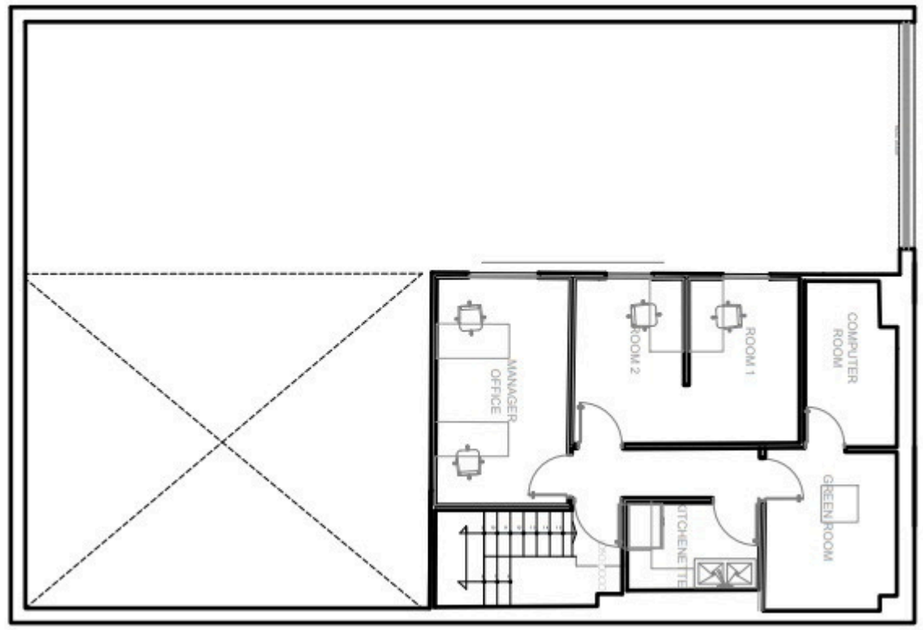
Distribution Control Centre in Docklands

We transformed an expansive, open-plan warehouse into a state-of-the-art distribution control centre. The redesign focused on optimizing storage capacity, streamlining logistical workflows, and integrating advanced infrastructure to ensure operational efficiency. With meticulous project management, we delivered a high-performing hub tailored to the company's logistical and storage needs.

ARCHITECTURAL PLANS



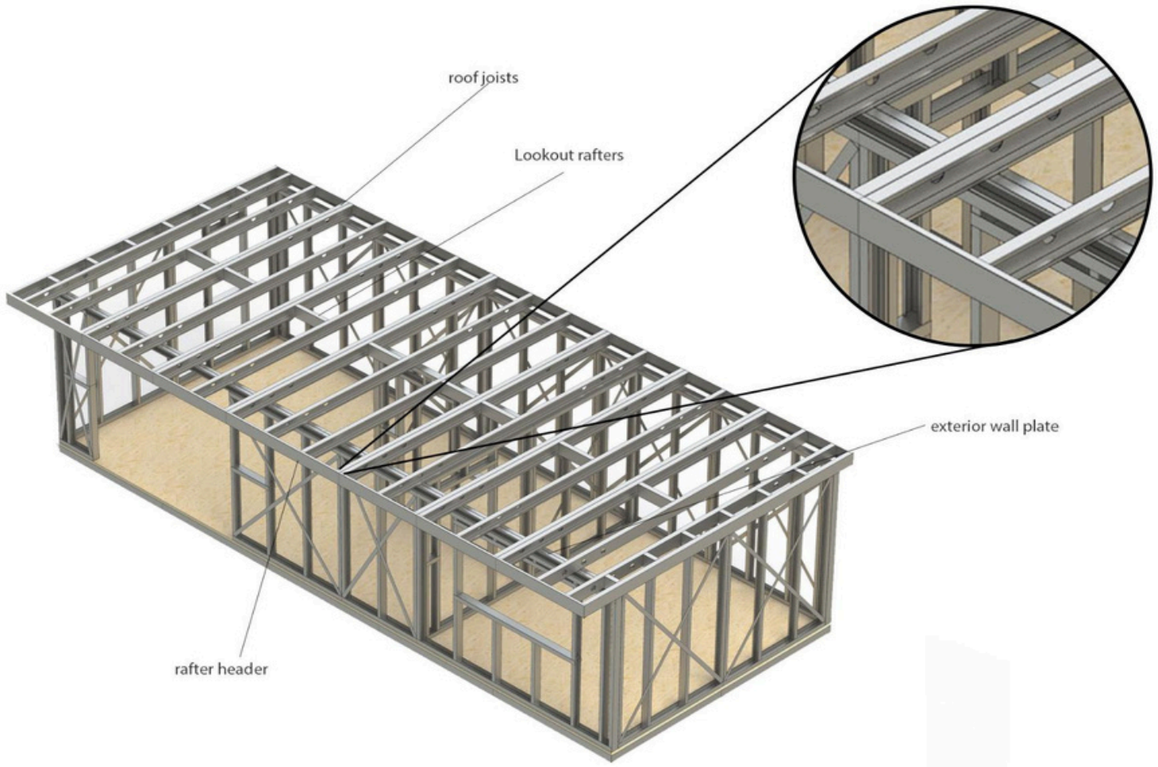
GROUND FLOOR

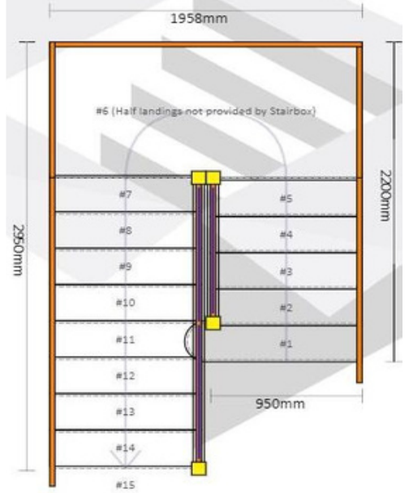


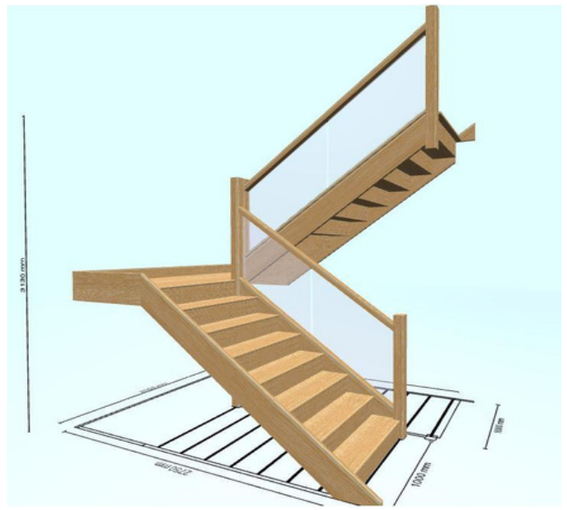
FIRST FLOOR

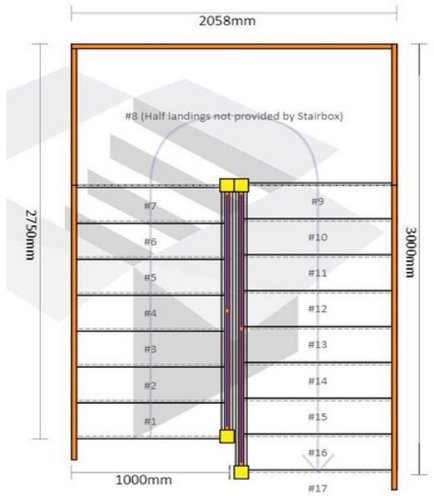
GHL Head Office & Distribution Control Centre

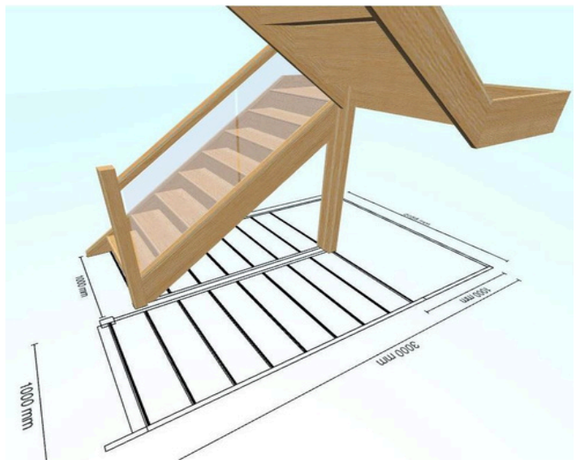
STRUCTURAL TRANSFORMATION IN DISTRIBUTION CENTER













STEEL FRAMEWORK ADAPTIBILITY

STAIRCASE DESIGN

The transformation of the distribution centre prominently features a custom-designed staircase, showcased through detailed 2D planning and 3D visualizations. This staircase serves as both a functional and architectural centrepiece, seamlessly connecting levels within the space. Utilizing the existing steel framework, including the flat roof rafters, we reconfigured the interior to create distinct rooms and operational zones. The steel framework provided a robust foundation, enabling efficient adaptation for modern distribution needs while maintaining structural integrity and design flexibility

Residential Projects



HOME EXTENSION IN WINCHMORE HILL

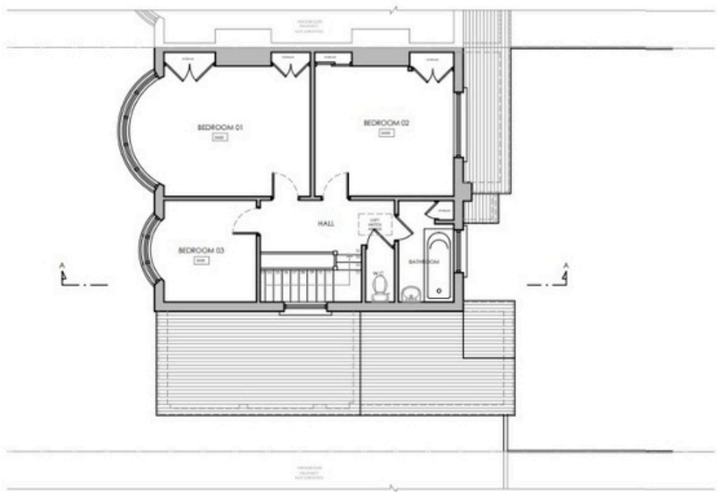
This project involved the design and execution of a 2.67-meter rear extension for a residential property. The goal was to enhance the functionality and aesthetics of the home, providing additional living space while maintaining a seamless integration with the existing architecture.

The accompanying drawings include:

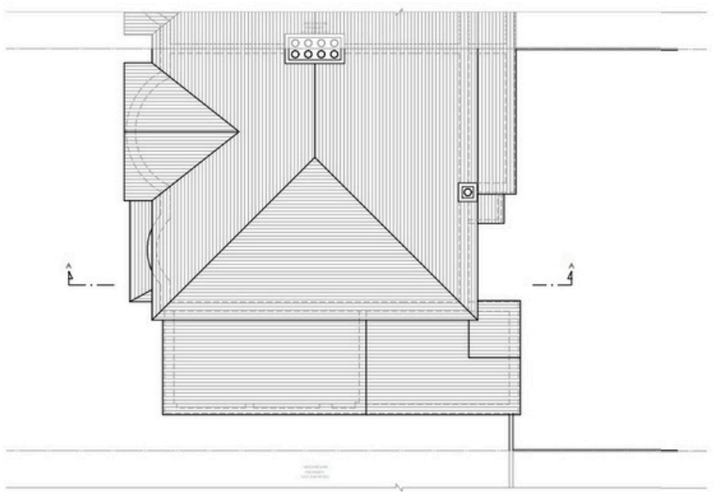
ARCHITECTURAL PLANS



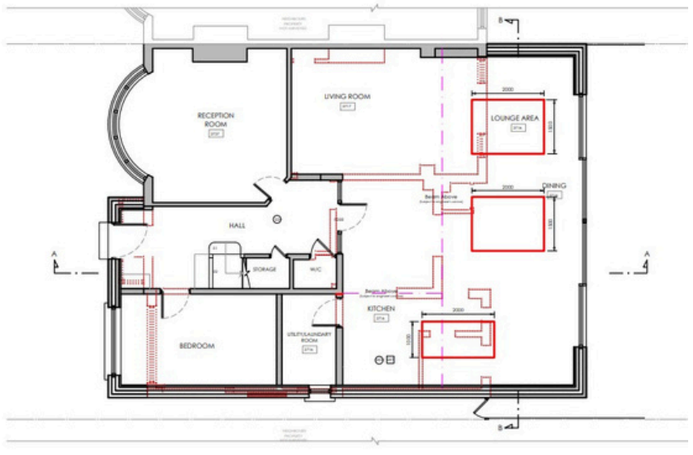
EXISTING GROUND FLOOR



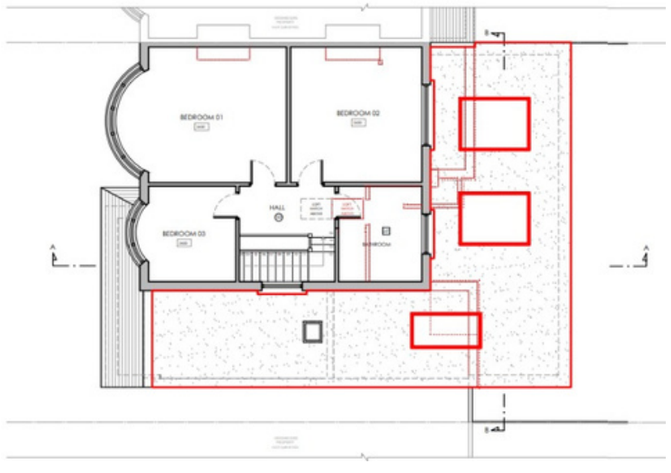
EXISTING FIRST FLOOR



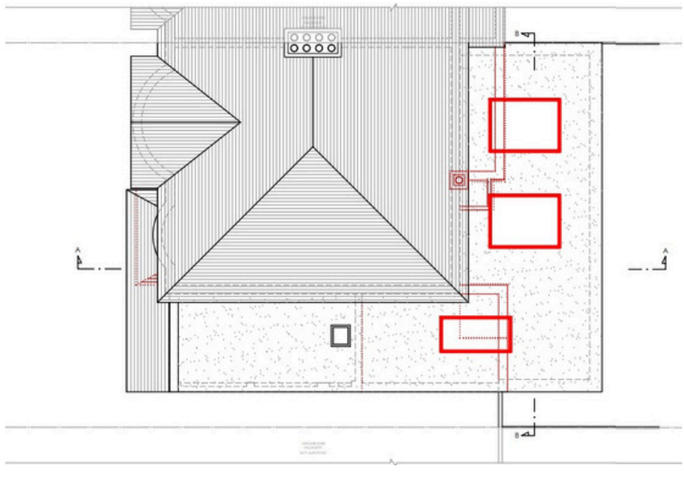
EXISTING ROOF PLAN



PROPSED GROUND FLOOR



PROPOESlEeDva tiFIoRnSsT/S FeLcOtioOnR



PROPOSED ROOF PLAN

HOME EXTENSION IN WINCHMORE HILL

ELEVATION & SECTION



EXISTING SIDE ELVATION



EXISTING REAR ELEVATION



EXISTING SECTION



PROPOSED SIDE EL EVATION



PROPOSED REAR ELEVATION

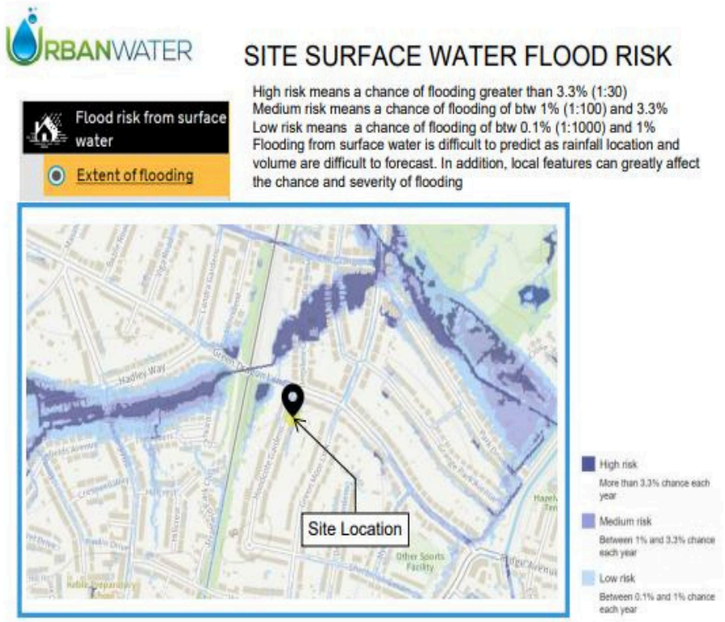


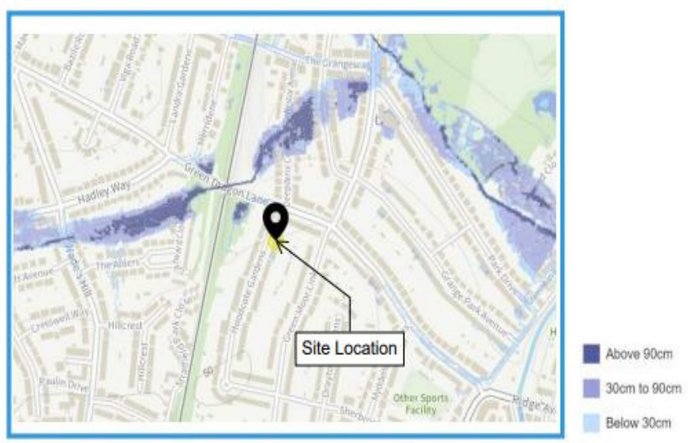
PROPOSED SECTION

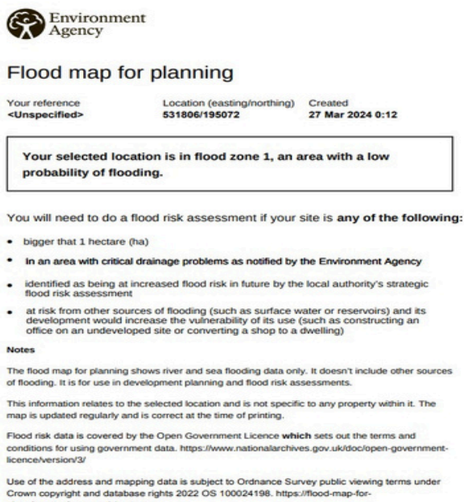
HOME EXTENSION IN WINCHMORE HILL

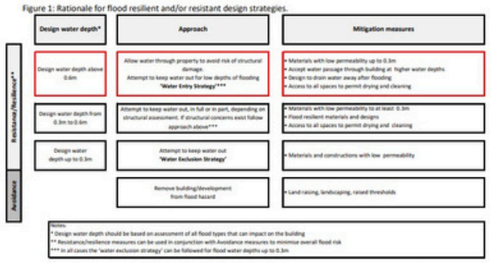
FLOOD RISK ASSESSMENT

As part of the development at 65 Hoodcote Gardens, a Flood Risk Assessment was conducted to ensure compliance with the National Planning Policy Framework (NPPF) and local planning authority requirements. The assessment concluded that with the proposed mitigation measures, the site can be safely developed without increasing flood risk to the surrounding area or compromising public safety. The findings confirm that the proposed extension will remain safe throughout its design life, will not adversely impact surface water generation, and aligns with environmental and planning standards. Supporting maps illustrate the site's flood risk context and mitigation strategies.







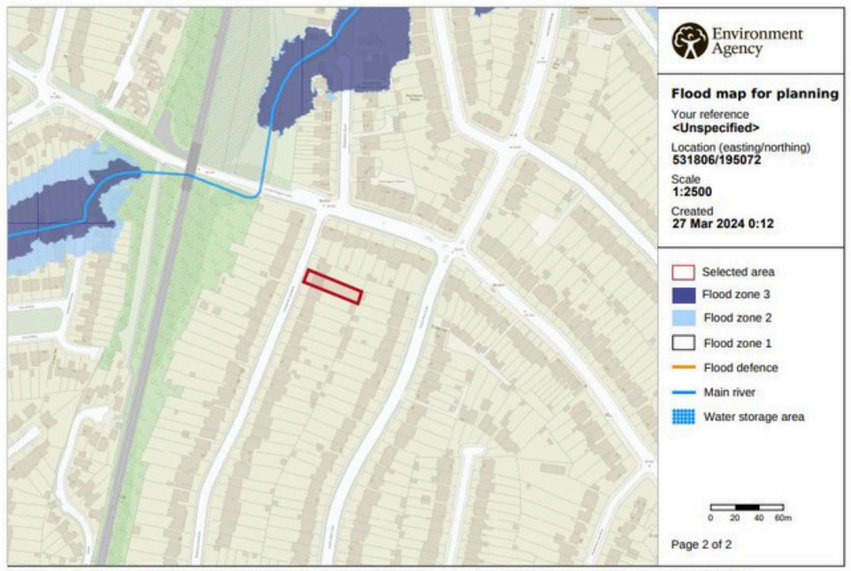


6.9 The design water depth for this site is 0.81m. The development should utilise building materials that are suitable for a 'water exclusion strategy'. Materials classified as "Good" (highlighted in red) in the Figure below shall be used for new construction upto level of 41.26m AOD.

Figure 2: Flood resilience characteristics of building materials (based on laboratory testing)

Material	Resilience characteristics*		
	Water penetration	Drying ability	Retention of pre-flood dimensions, integrity
Bricks			
Engineering bricks (Classes A and B)	Good	Good	Good
Facing bricks (pressed)	Medium	Medium	Good
Facing bricks (handmade)	Poor	Poor	Poor
Blocks			
Concrete (3.5N, 7N)	Poor	Medium	Good
Aircrete	Medium	Poor	Good
Timber board			
OSB2, 11mm thick	Medium	Poor	Poor
OSB3, 18mm thick	Medium	Poor	Poor
Gypsum plasterboard			
Gypsum Plasterboard, 9mm thick	Poor	Not Assessed	Poor
Mortars			
Below d.p.c. 1:3(cement:sand)	Good	Good	Good
Above d.p.c. 1:6(cement:sand)	Good	Good	Good

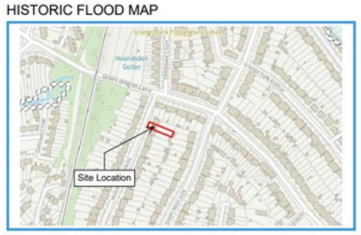
* Resilience characteristics are related to the testing carried out and exclude aspects such as ability to withstand freeze/thaw cycles, cleanability and mould growth



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URBANWATER

HISTORIC FLOOD MAP

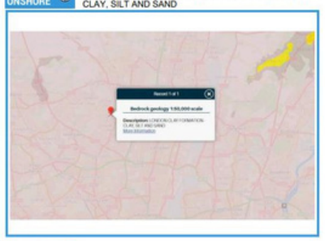


GROUND WATER FLOOD RISK



URBANWATER SITE GEOLOGY

GEOINDEX ONSHORE GEOLOGY - BEDROCK - LONDON CLAY FORMATION - CLAY, SILT AND SAND



GEOINDEX ONSHORE GEOLOGY - SUPERFICIAL DEPOSITS - Not Present At The Site



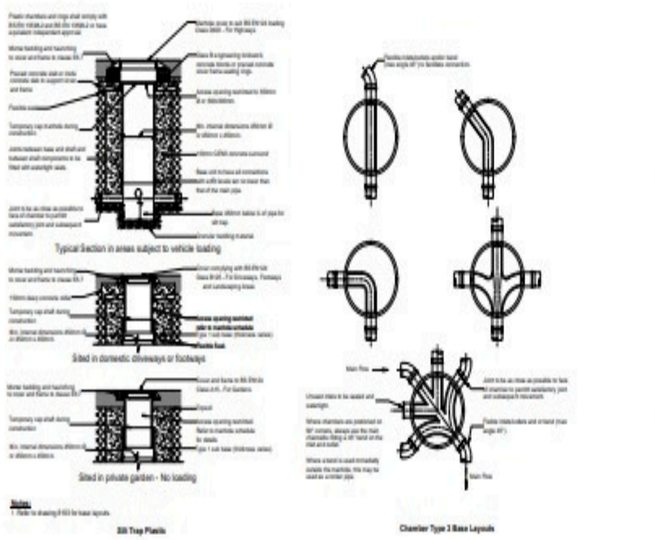
HOME EXTENSION IN WINCHMOOR HILL

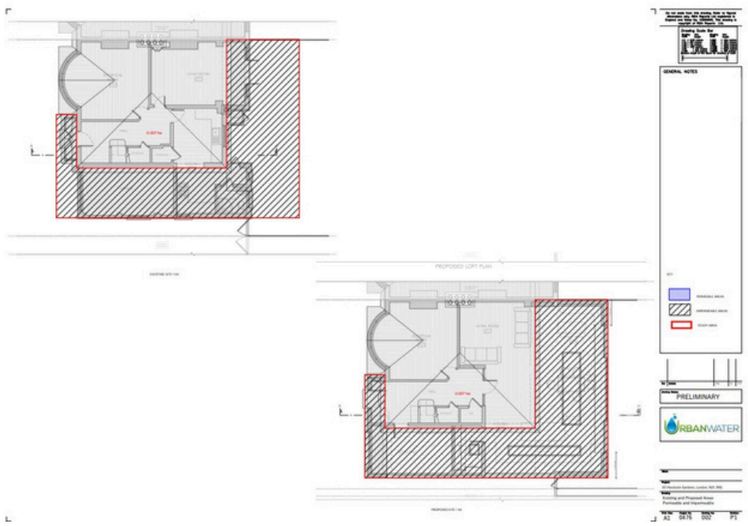
DRAINAGE STRATEGY DESIGN

A Flood Risk Strategy was developed to address potential flooding concerns and ensure the site's resilience against flood events. The strategy outlines specific mitigation measures, including site-level adjustments, sustainable drainage solutions, and elevation considerations, to minimize flood risks. These measures were designed to comply with local planning requirements, Environment Agency guidelines. By implementing this strategy, the development ensures long-term safety, reduces potential impacts on surrounding areas, and supports sustainable water management practices. Supporting diagrams and maps provide a detailed overview of the proposed approach.

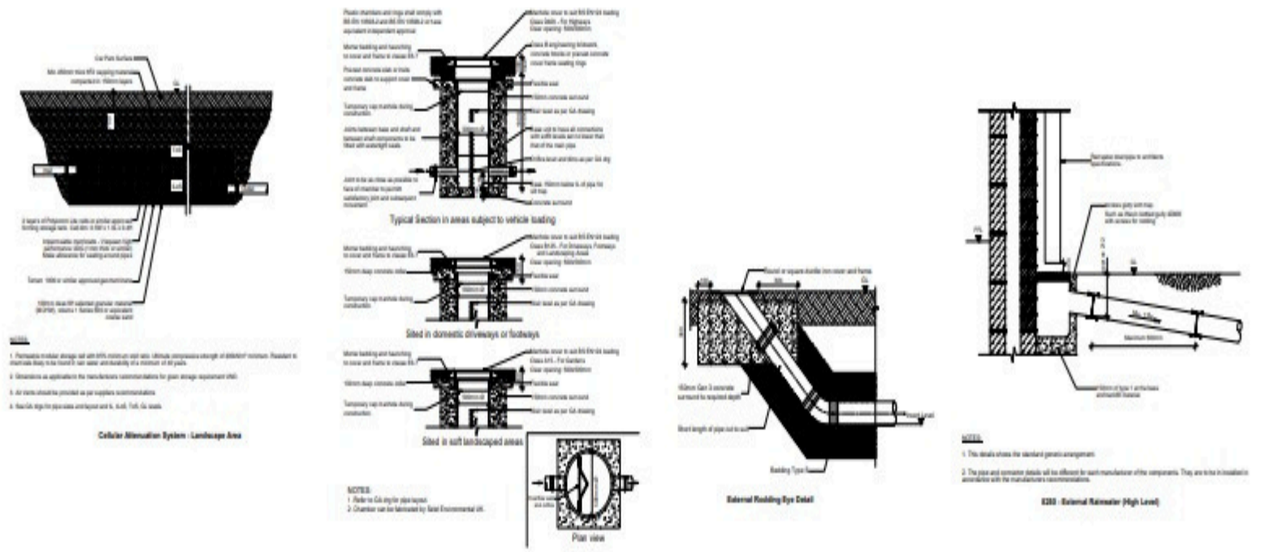


PROPOSED DRAINAGE STATERGY





EXISTING AND PROPOSED AREAS PERMEABLE AND IMPERMEABLE

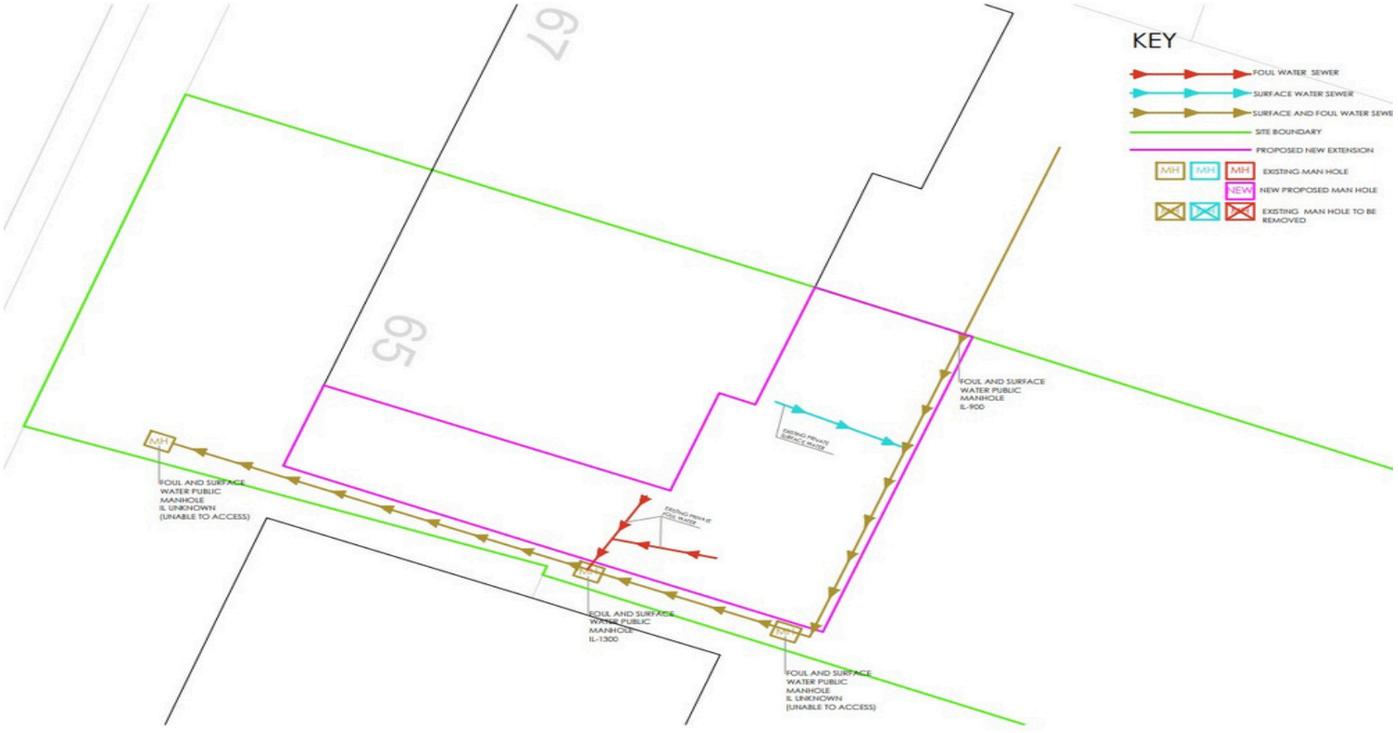


FLOW CONTROL LAYER

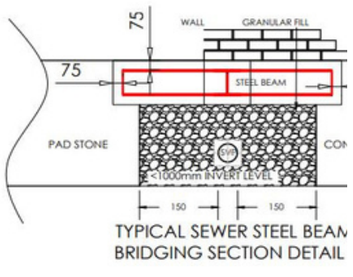
HOME EXTENSION IN WINCHMOOR HILL

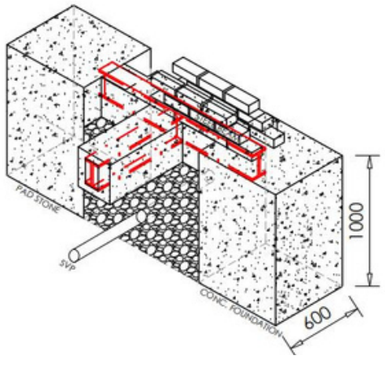
THAMES WATER BUILDOVER DESIGN

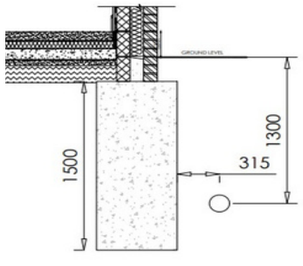
A new drainage flow strategy was designed and implemented with the approval of Thames Water. This strategy ensures efficient management of surface water and wastewater generated by the extended property while aligning with local infrastructure requirements. The design integrates sustainable drainage solutions to prevent any increase in flood risk or strain on the existing drainage network. Permission from Thames Water confirms compliance with their standards, ensuring that the new system effectively supports the development without adversely impacting the surrounding area. Detailed plans illustrate the revised drainage flow and connection points.



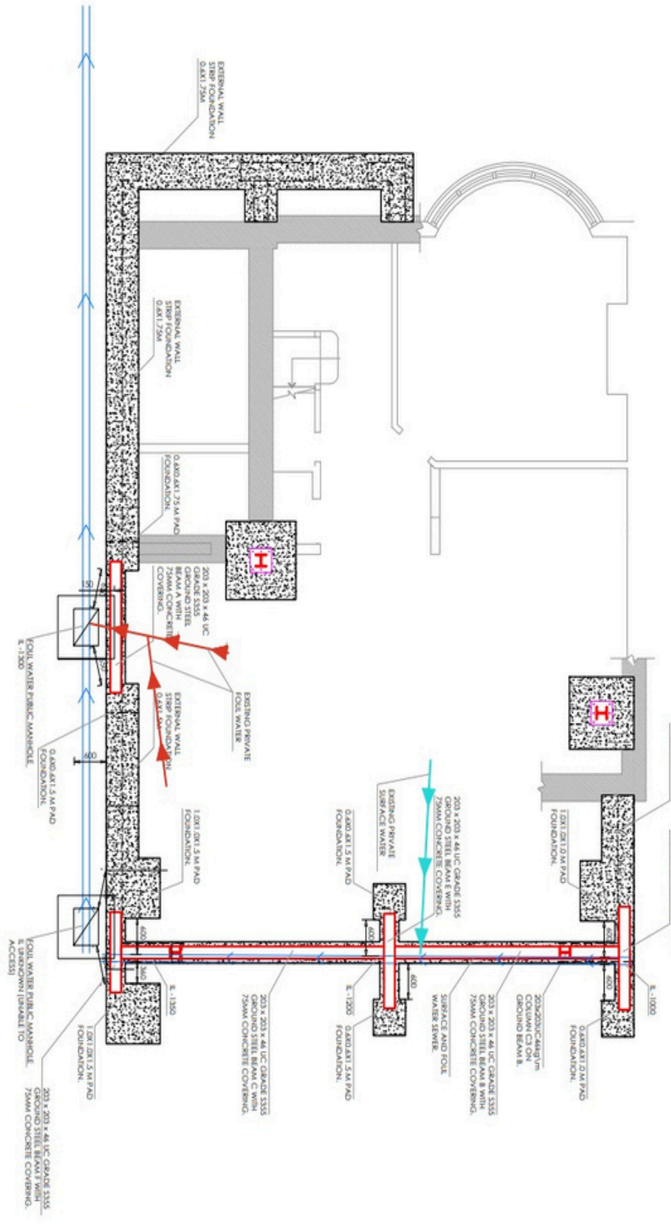
SITE PLAN







TECHNICAL DETAIL



NEW DRAINAGE PLAN

HOME EXTENSION IN WINCHMOOR HILL

3D MODELING









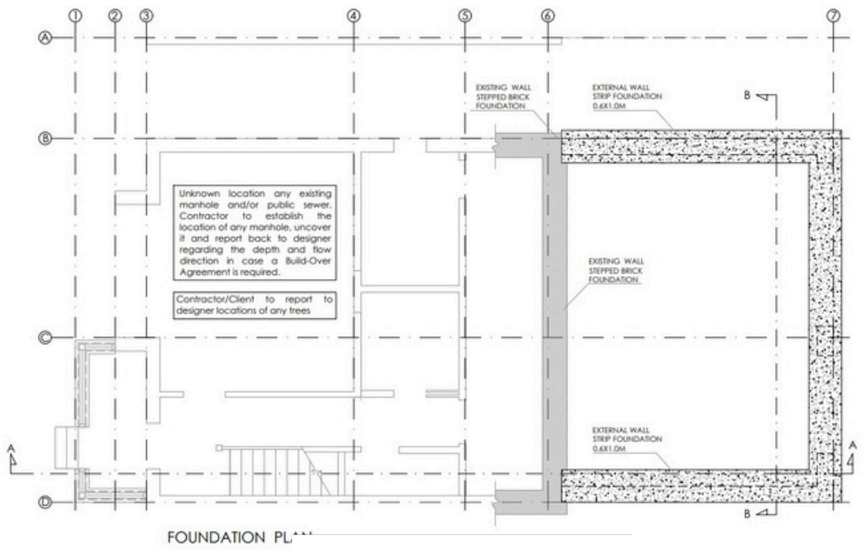
HOME EXTENSION IN ENFIELD

PROPOSAL

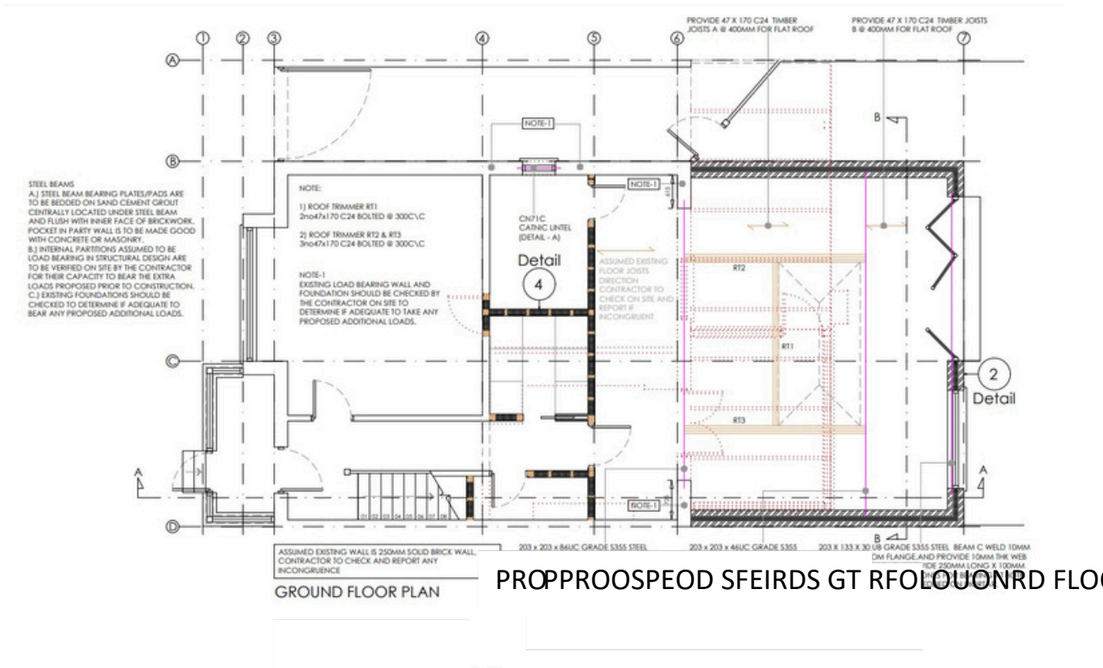
This project involved the design and execution of a 2.38-meter rear extension for a residential property. The goal was to enhance the functionality and aesthetics of the home, providing additional living space while maintaining a seamless integration with the existing architecture.

The accompanying drawings include:

ARCHITECTURAL PLANS



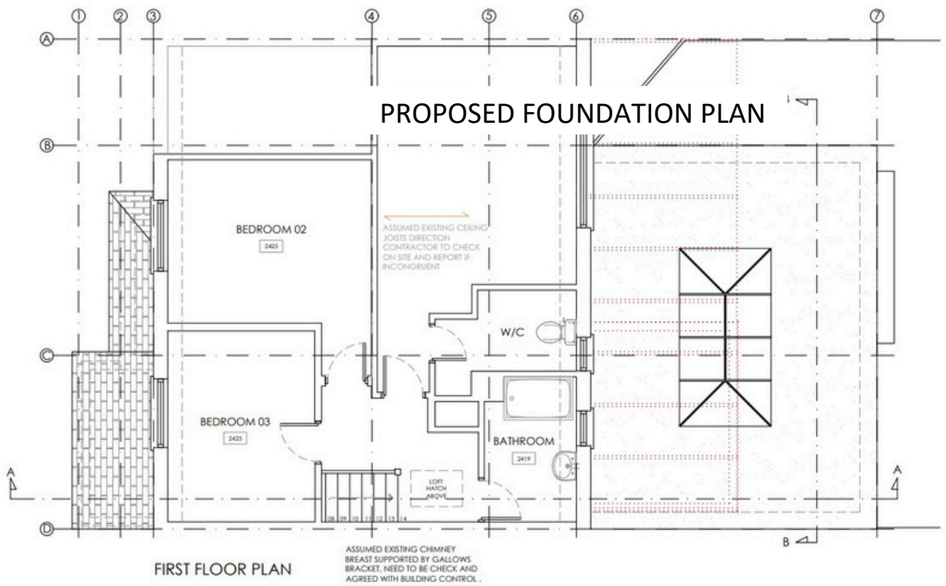
PROPOSED FIRST FLOOR



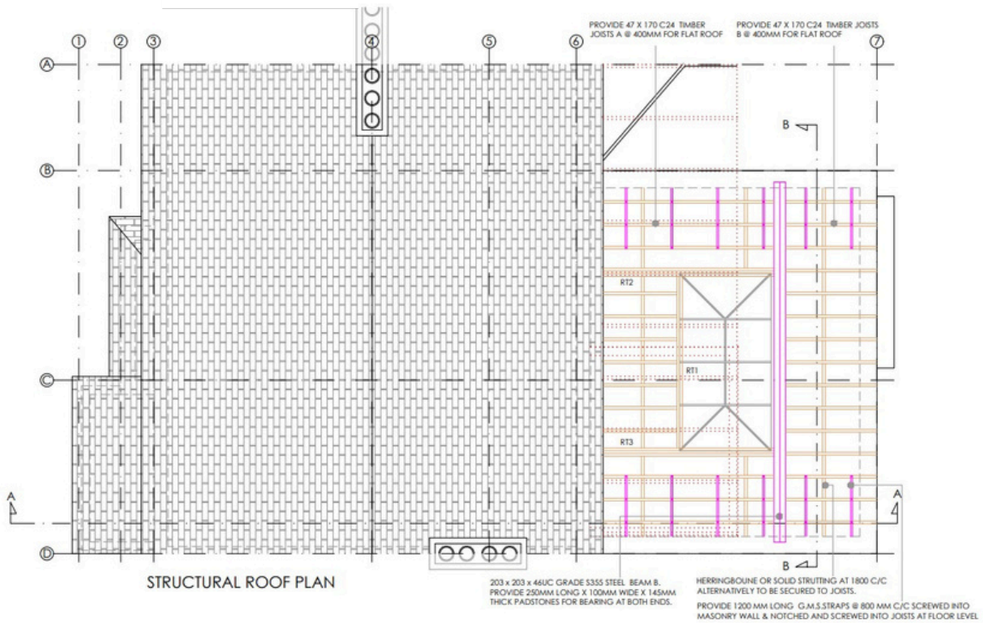
GROUND FLOOR PLAN

PROPOSED GROUND FLOOR

PROPOSED FOUNDATION PLAN



FIRST FLOOR PLAN



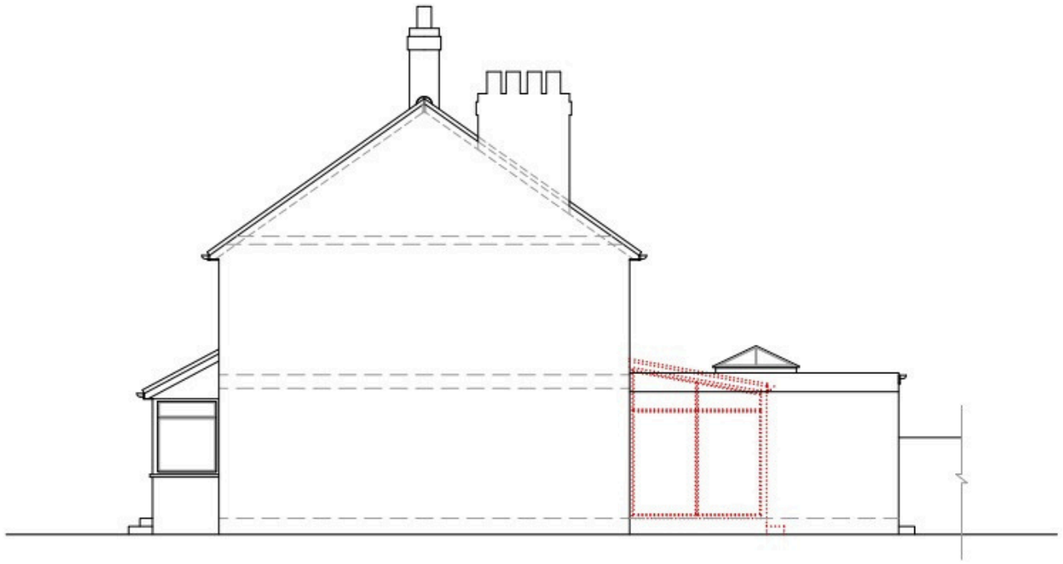
STRUCTURAL ROOF PLAN

HOME EXTENSION IN ENFIELD

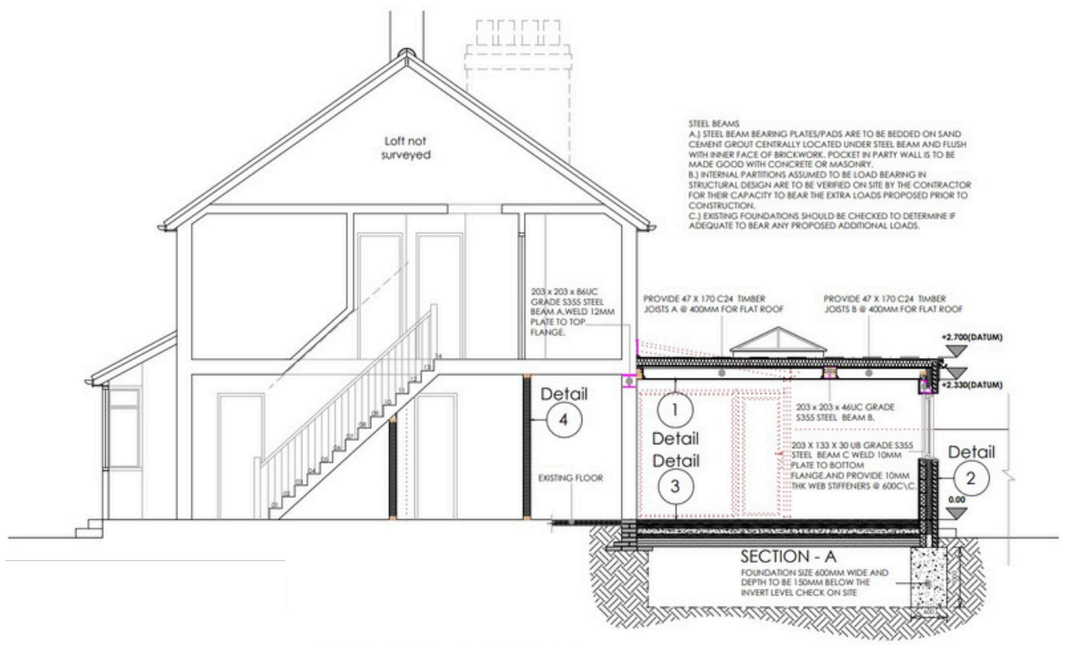
ELEVATION & SECTIONS



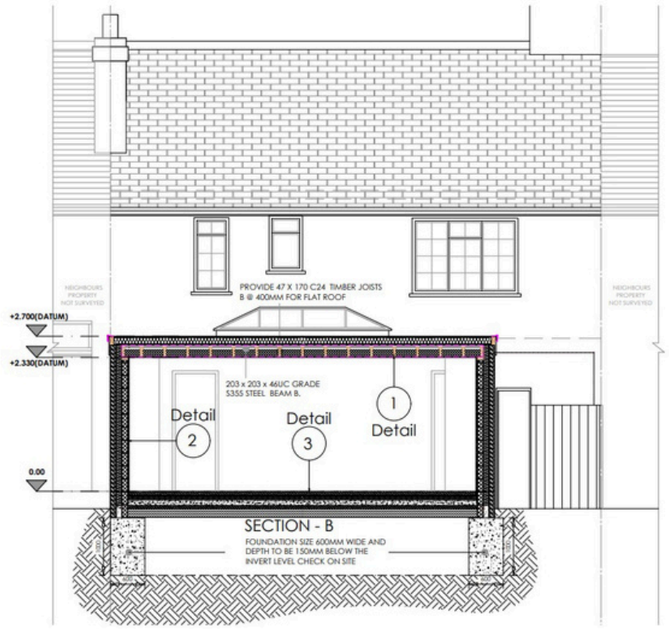
PROPOSED REAR ELEVATION



PROPOSED SIDE ELEVATION



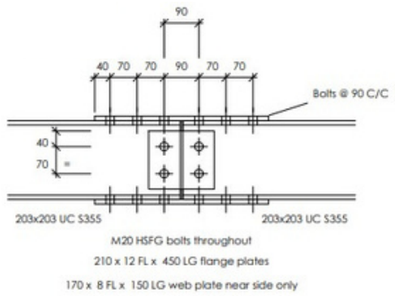
PROPOSED A SECTION



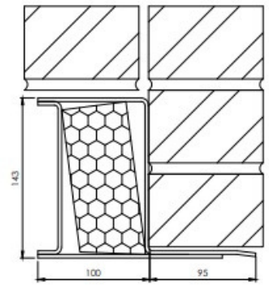
PPROPOSED B SECTION

HOME EXTENSION IN ENFIELD

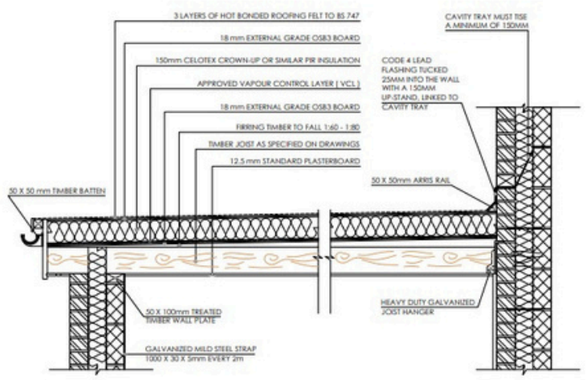
TECHNICAL CONSTRUCTION DETAILS



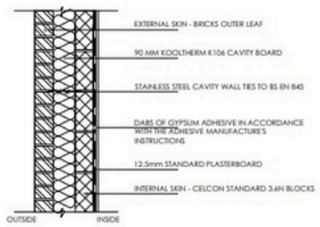
STEELWORK SPLICE DETAIL



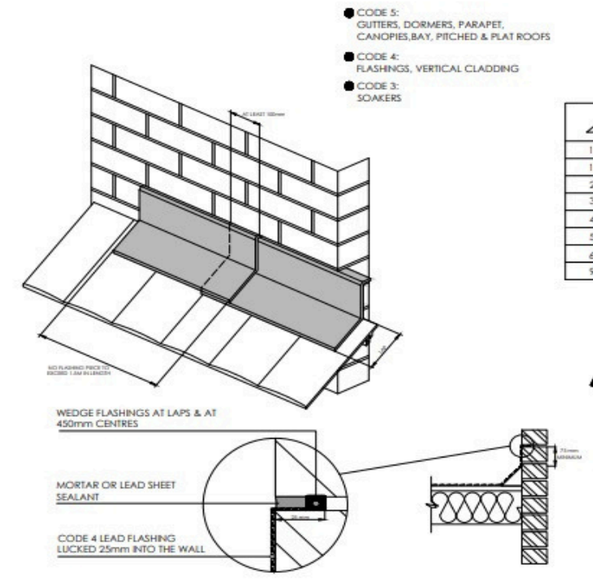
EXTERNAL SOLID WALL LINTEL DETAIL



WARM FLAT ROOF DETAIL



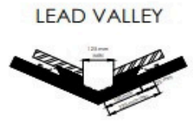
FULL CAVITY WALL FINISH SECTION



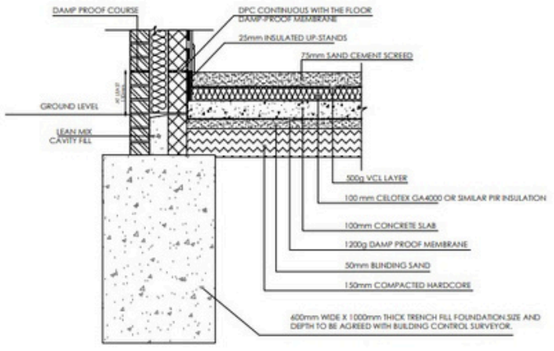
LAP DIGRAM

PITCH	LAP
11° - 14°	395 mm
15° - 19°	290 mm
20° - 29°	220 mm
30° - 39°	150 mm
40° - 49°	115 mm
50° - 59°	100 mm
60° - 89°	85 mm
90°	75 mm

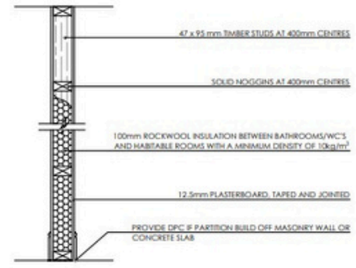
LEAD VALLEY



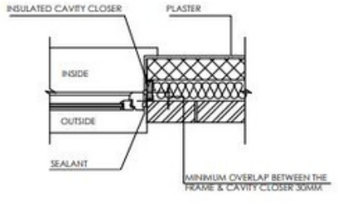
LEAD WORK DETAIL



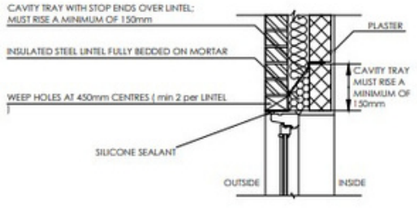
TRENCH FOUNDATION SECTION



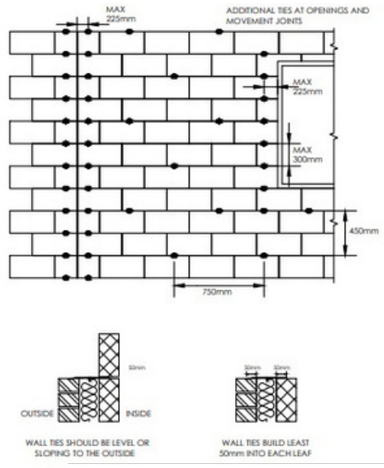
INTERNAL TIMBER STUD SECTION



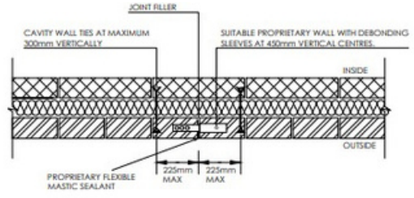
CAVITY CLOSER DETAIL



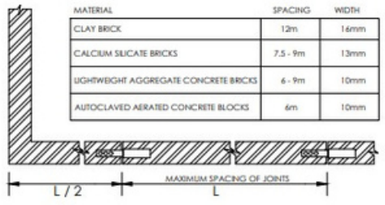
CAVITY TRAY DETAIL



WALL TIES DETAIL



MATERIAL	SPACING	WIDTH
CLAY BRICK	12m	16mm
CALCIUM SILICATE BRICKS	7.5 - 9m	13mm
LIGHTWEIGHT AGGREGATE CONCRETE BRICKS	6 - 9m	10mm
AUTOCLAVED AERATED CONCRETE BLOCKS	6m	10mm

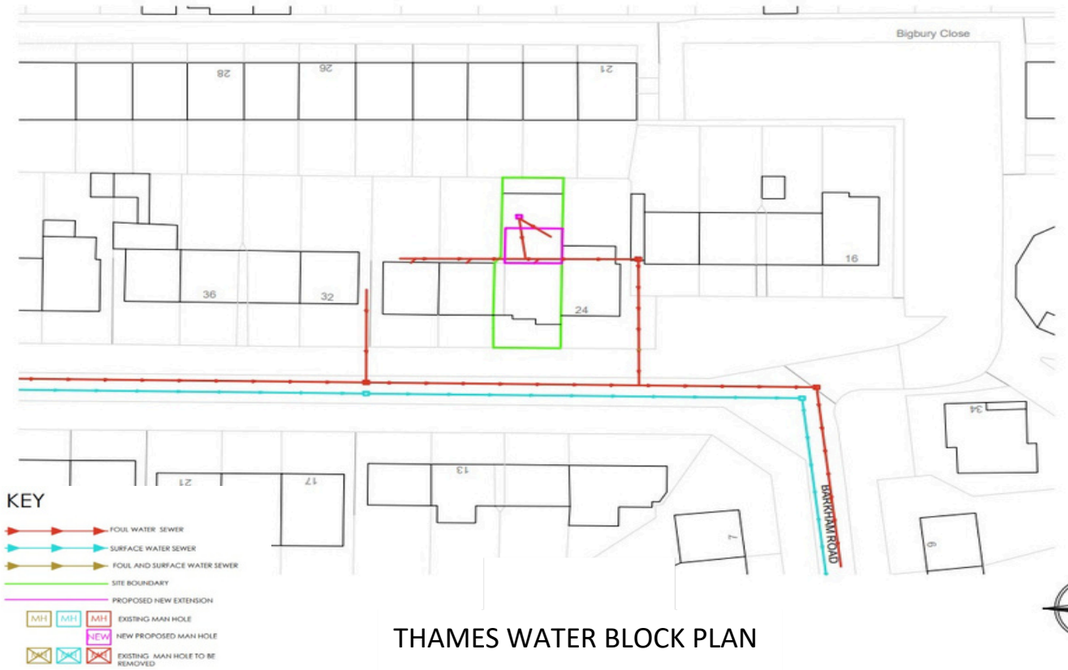


MOVEMENT JOINTS PLAN

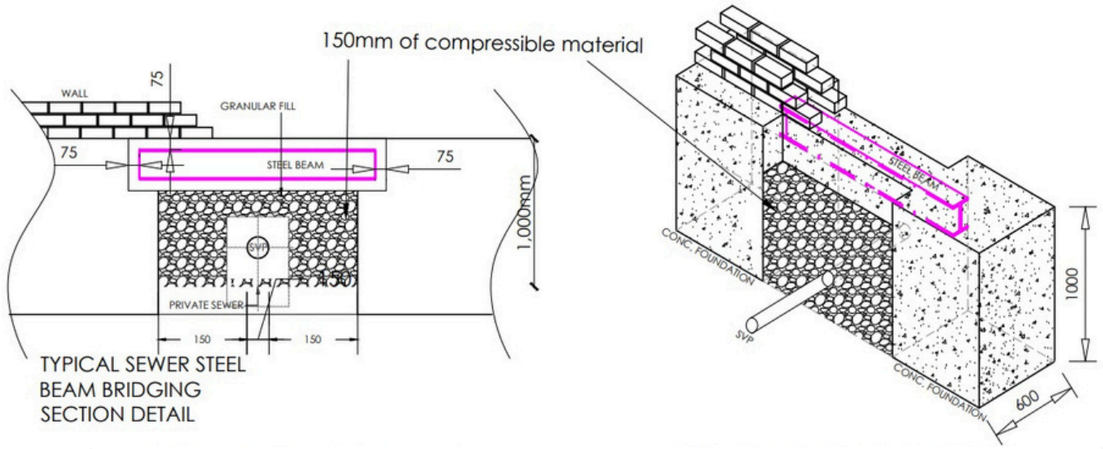
HOME EXTENSION IN ENFIELD

THAMES WATER BUILDOVER DESIGN

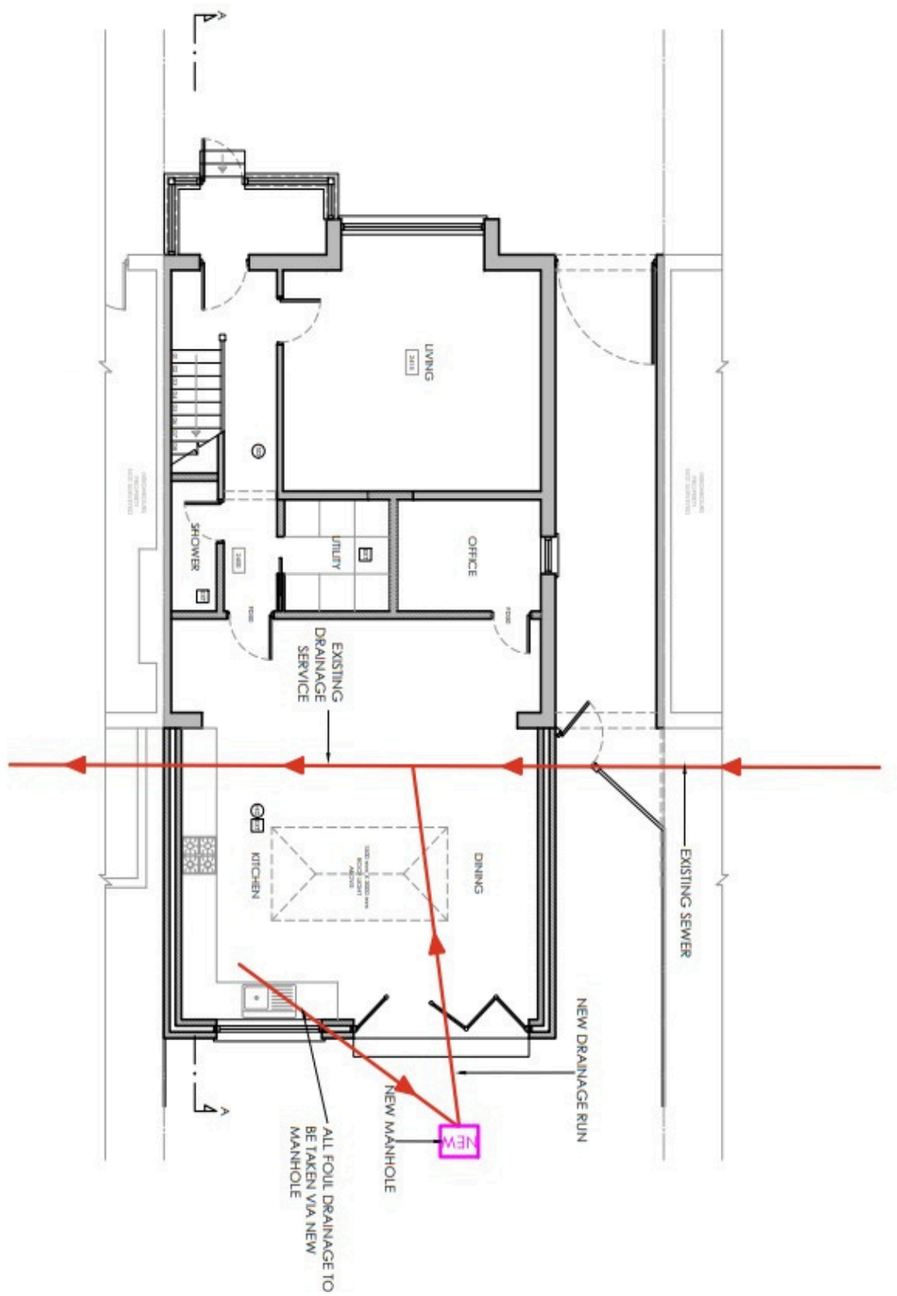
A new drainage flow strategy was designed and implemented with the approval of Thames Water. This strategy ensures efficient management of surface water and wastewater generated by the extended property while aligning with local infrastructure requirements. The design integrates sustainable drainage solutions to prevent any increase in flood risk or strain on the existing drainage network. Permission from Thames Water confirms compliance with their standards, ensuring that the new system effectively supports the development without adversely impacting the surrounding area. Detailed plans illustrate the revised drainage flow and connection points.



THAMES WATER BLOCK PLAN



DRAINAGE SECTIONAL DETAIL



NEW DRAINAGE ARCHITECTURAL PLAN

HOME EXTENSION IN ENFIELD

RESIDENTIAL PROJECT PHOTOS







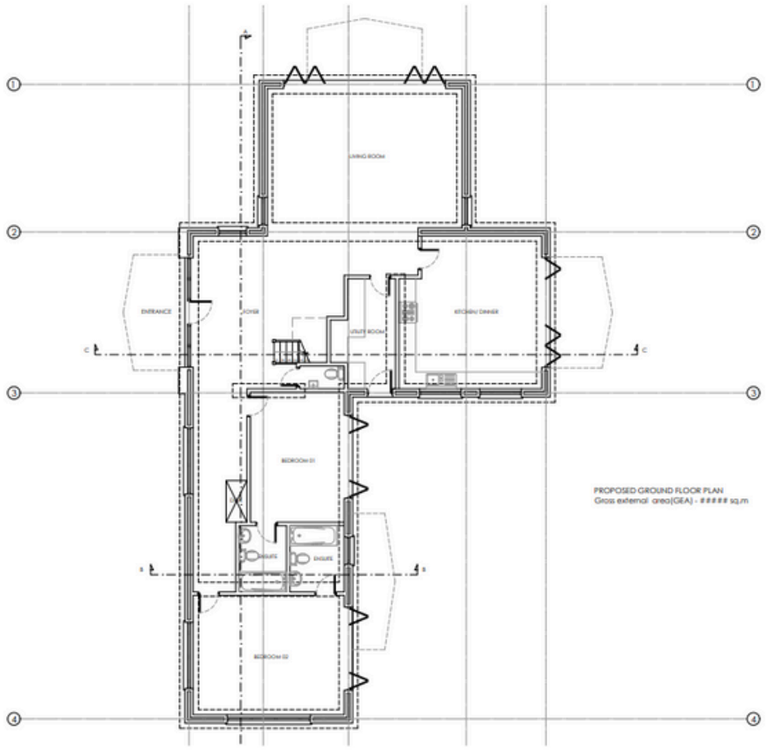


NEW BUILD IN ESSEX

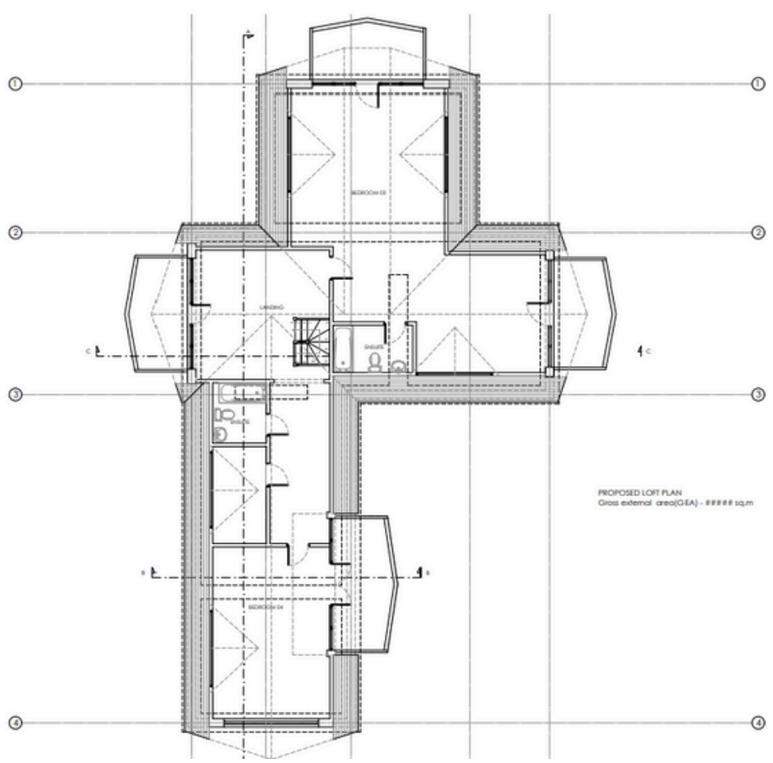


This project involved the construction of a modern, spacious new build with a total area of **3875.01sq foot**. The design focused on creating a robust and adaptable structure, with steel being the primary construction material. Key structural components, including steel beams and columns, ensure exceptional strength, durability, and versatility. The expansive dimensions of **13.5 meters in width and 23 meters in length** provide an open layout suitable for a variety of uses, while the steel framework offers both structural integrity and a sleek, contemporary aesthetic. The project highlights our commitment to delivering functional and future-proof spaces that meet the highest standards of construction and design.

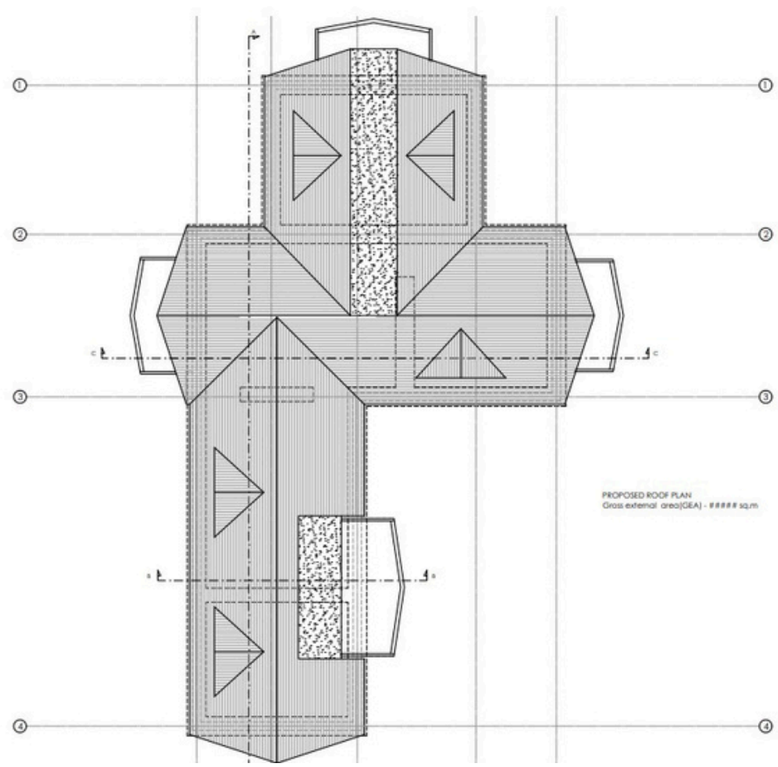
ARCHITECTURAL PLANS



GROUND FLOOR PLAN



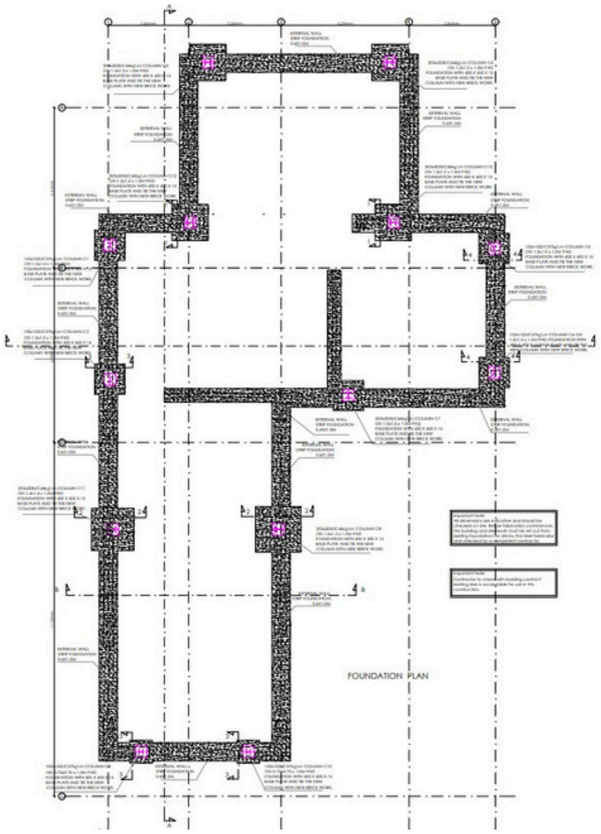
FIRST FLOOR PLAN



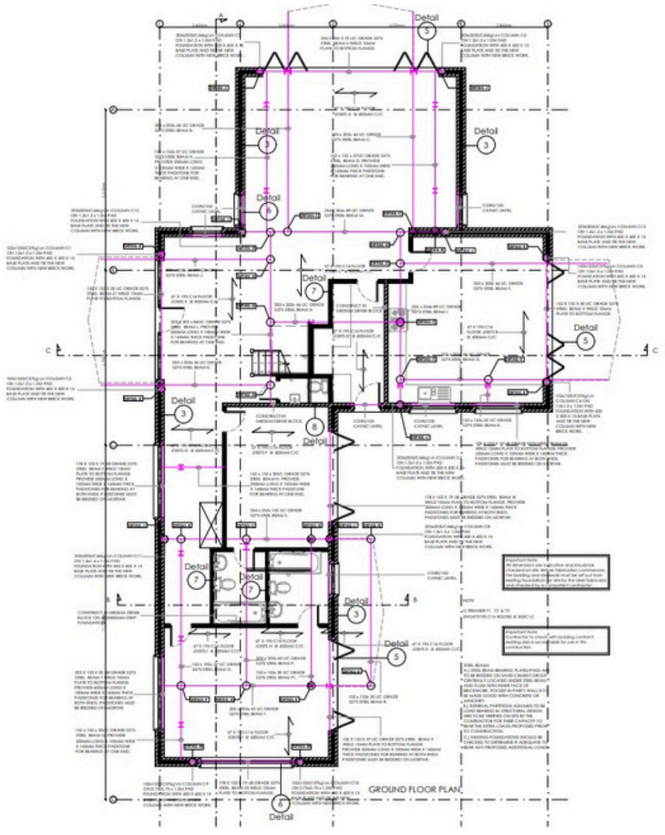
ROOF PLAN

NEW BUILD IN ESSEX

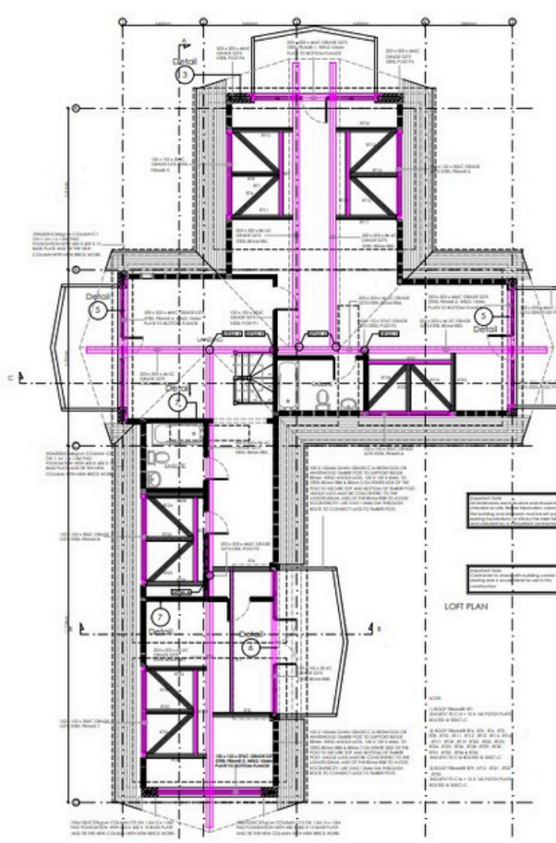
STRUCTURAL PLANS



STRUCTURAL FOUNDATION PLAN

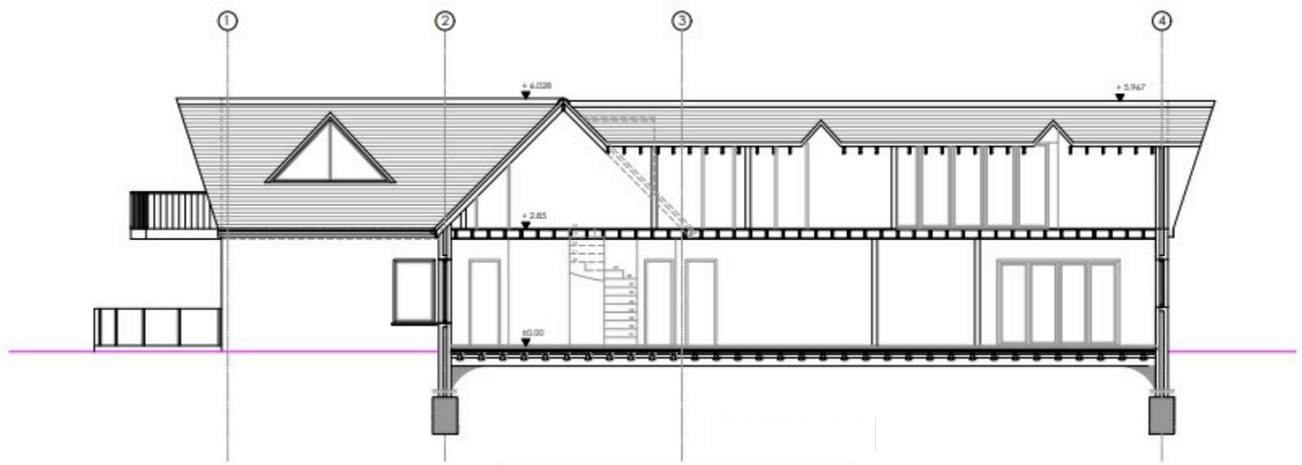


STRUCTURAL GROUND FLOOR PLAN

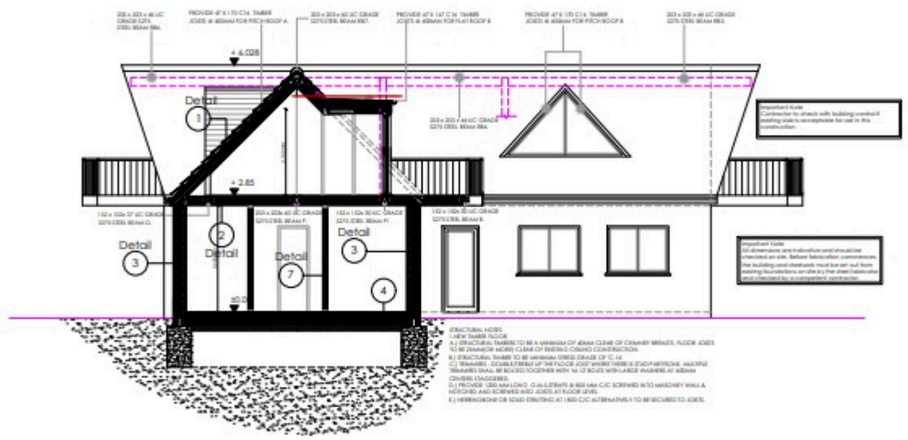


STRUCTURAL FIRST FLOOR PLAN

SECTIONS



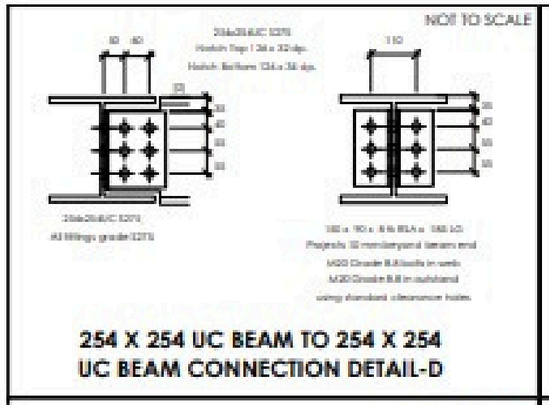
AA SECTION



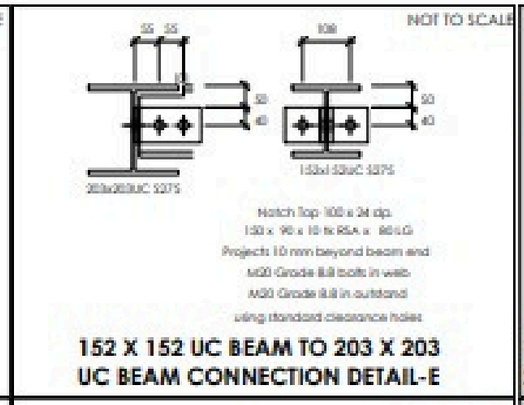
BB SECTION

NEW BUILD IN ESSEX

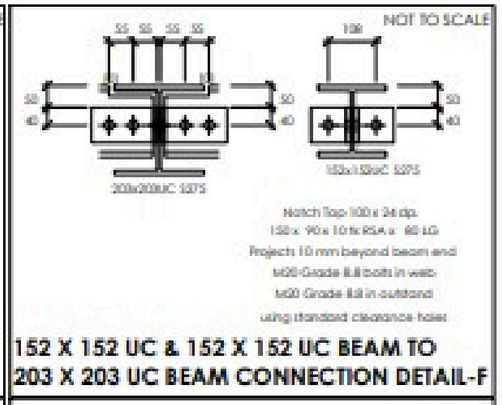
STEELWORK CONNECTION DETAIL



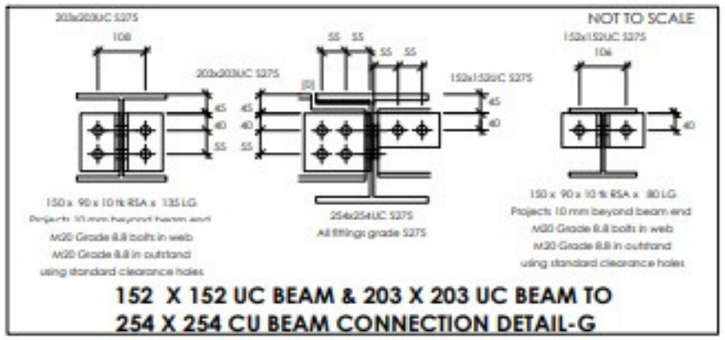
254 X 254 UC BEAM TO 254 X 254 UC BEAM CONNECTION DETAIL-D



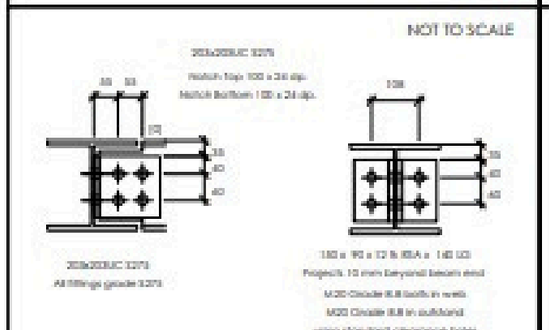
152 X 152 UC BEAM TO 203 X 203 UC BEAM CONNECTION DETAIL-E



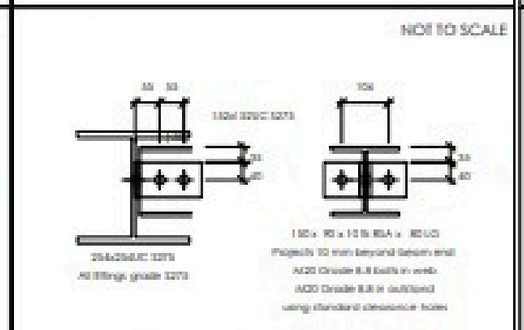
152 X 152 UC & 152 X 152 UC BEAM TO 203 X 203 UC BEAM CONNECTION DETAIL-F



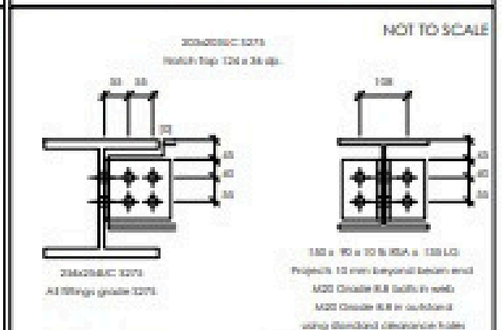
152 X 152 UC BEAM & 203 X 203 UC BEAM TO 254 X 254 CU BEAM CONNECTION DETAIL-G



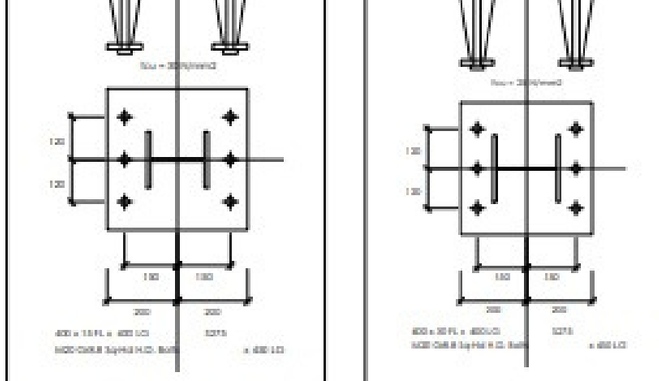
203 X 203 UC BEAM TO 203 X 203 UC BEAM CONNECTION DETAIL-A

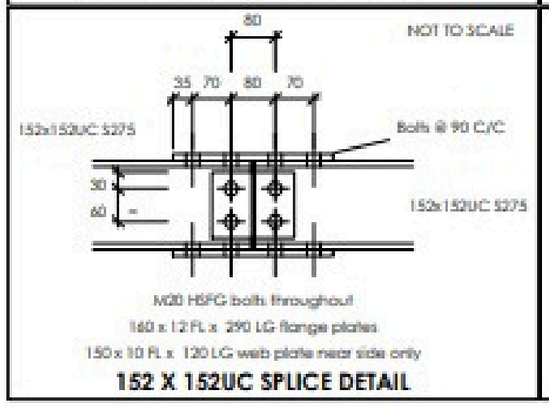


152 X 152 UC BEAM TO 254 X 254 CU BEAM CONNECTION DETAIL-B

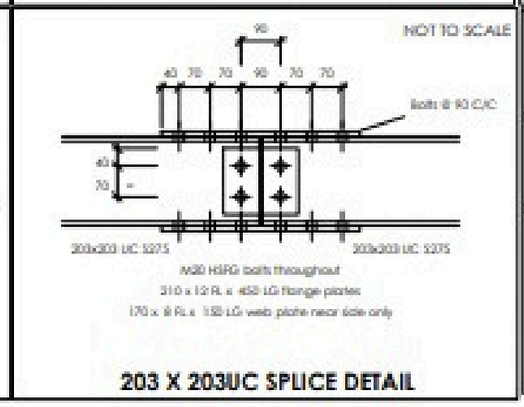


203 X 203 UC BEAM TO 254 X 254 UC BEAM CONNECTION DETAIL-C

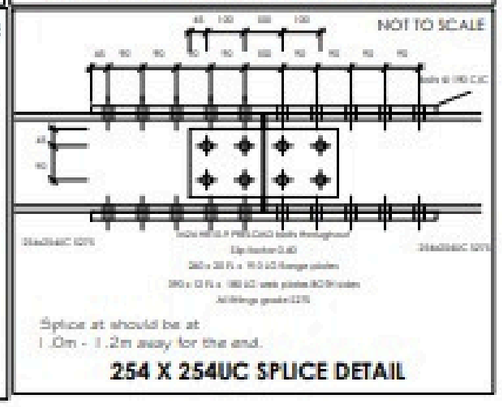




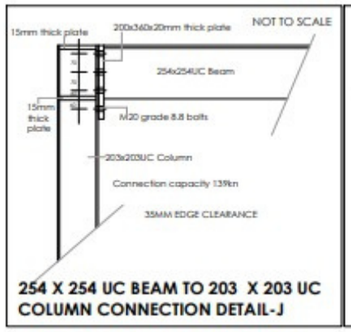
152 X 152UC SPLICE DETAIL



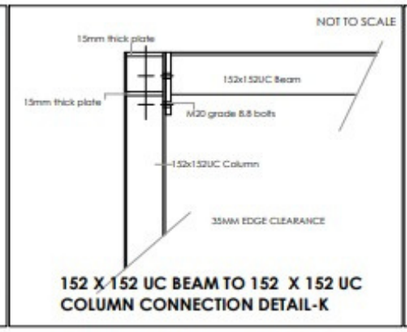
203 X 203UC SPLICE DETAIL



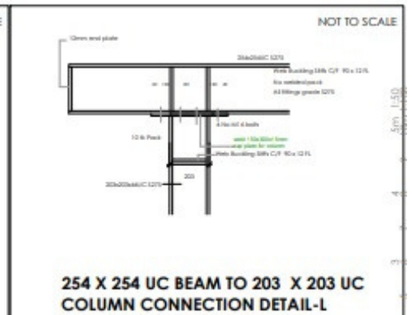
254 X 254UC SPLICE DETAIL



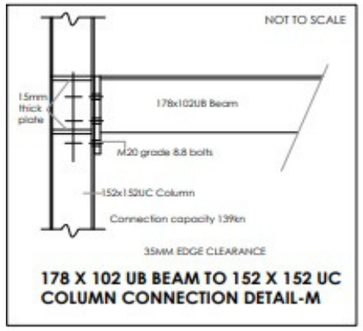
254 X 254 UC BEAM TO 203 X 203 UC COLUMN CONNECTION DETAIL-J



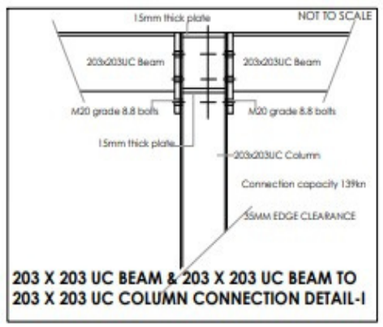
152 X 152 UC BEAM TO 152 X 152 UC COLUMN CONNECTION DETAIL-K



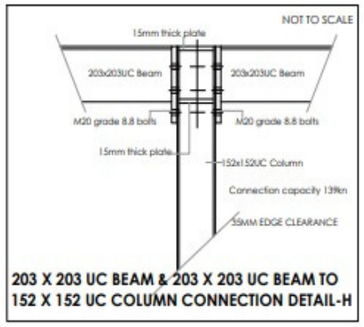
254 X 254 UC BEAM TO 203 X 203 UC COLUMN CONNECTION DETAIL-L



178 X 102 UB BEAM TO 152 X 152 UC COLUMN CONNECTION DETAIL-M



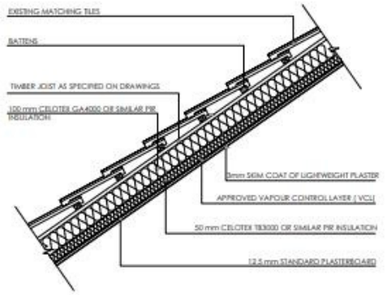
203 X 203 UC BEAM & 203 X 203 UC BEAM TO 203 X 203 UC COLUMN CONNECTION DETAIL-I



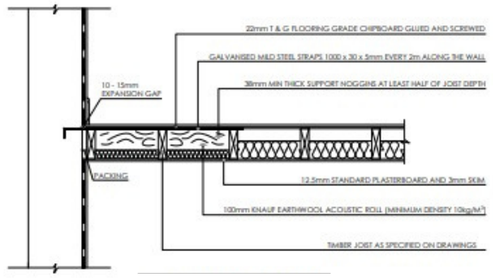
203 X 203 UC BEAM & 203 X 203 UC BEAM TO 152 X 152 UC COLUMN CONNECTION DETAIL-H

NEW BUILD IN ESSEX

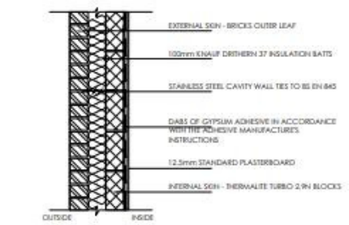
TECHNICAL CONSTRUCTION DETAIL



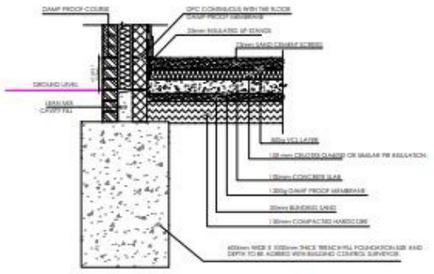
PITCH ROOF DETAIL



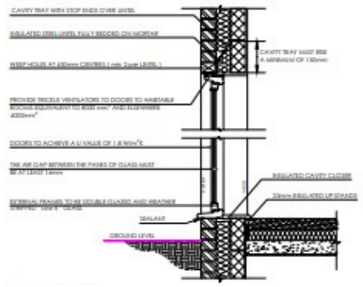
LOFT FLOOR DETAIL



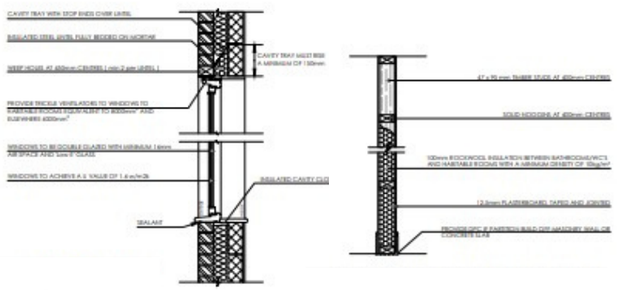
CAVITY WALL WITH BRICK FINISH DETAIL



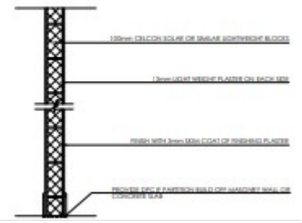
TRENCH FOUNDATION DETAIL



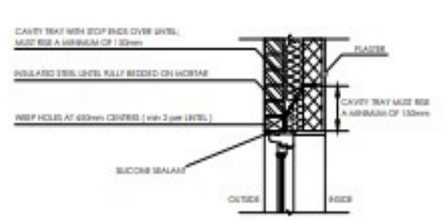
DOOR DETAIL



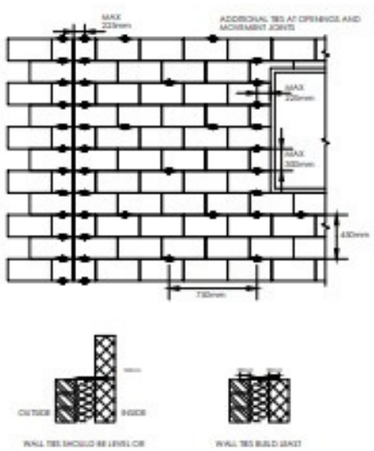
WINDOW AND INTERNAL TIMBER STUD PARTITION DETAIL



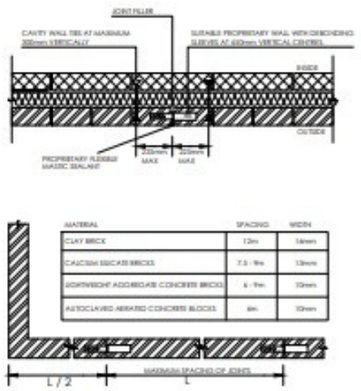
INTERNAL MANSONRY PARTITION DETAIL



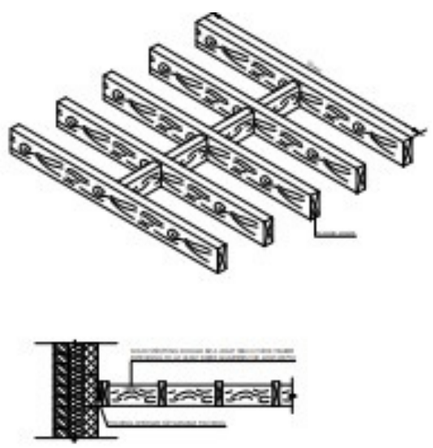
CAVITY TRAY SECTION



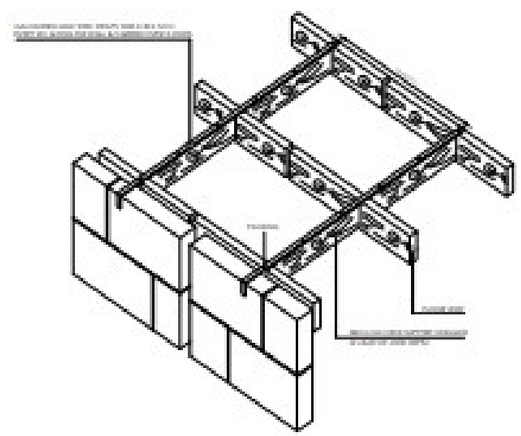
WALL TIES DETAIL



MOVEMENT JOINTS DETAIL



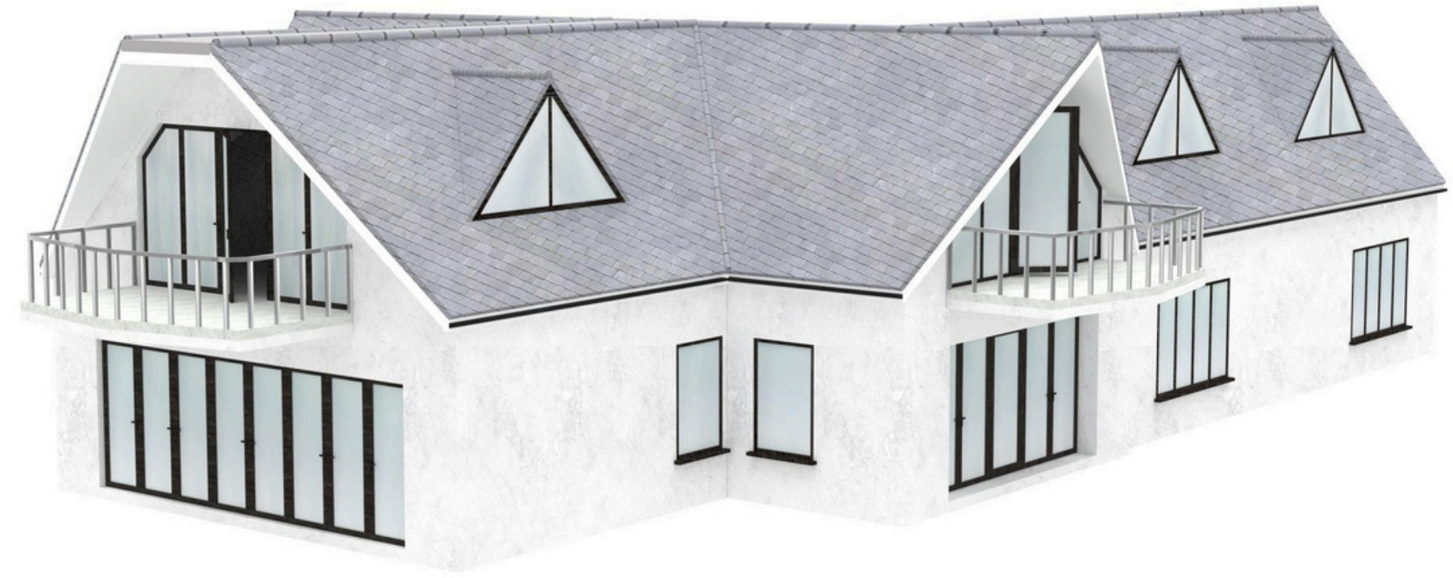
FLOOR JOISTS DETAILS



FLOOR JOISTS AND WALL CONNECTION DETAIL

NEW BUILD IN ESSEX

3D MODELING











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