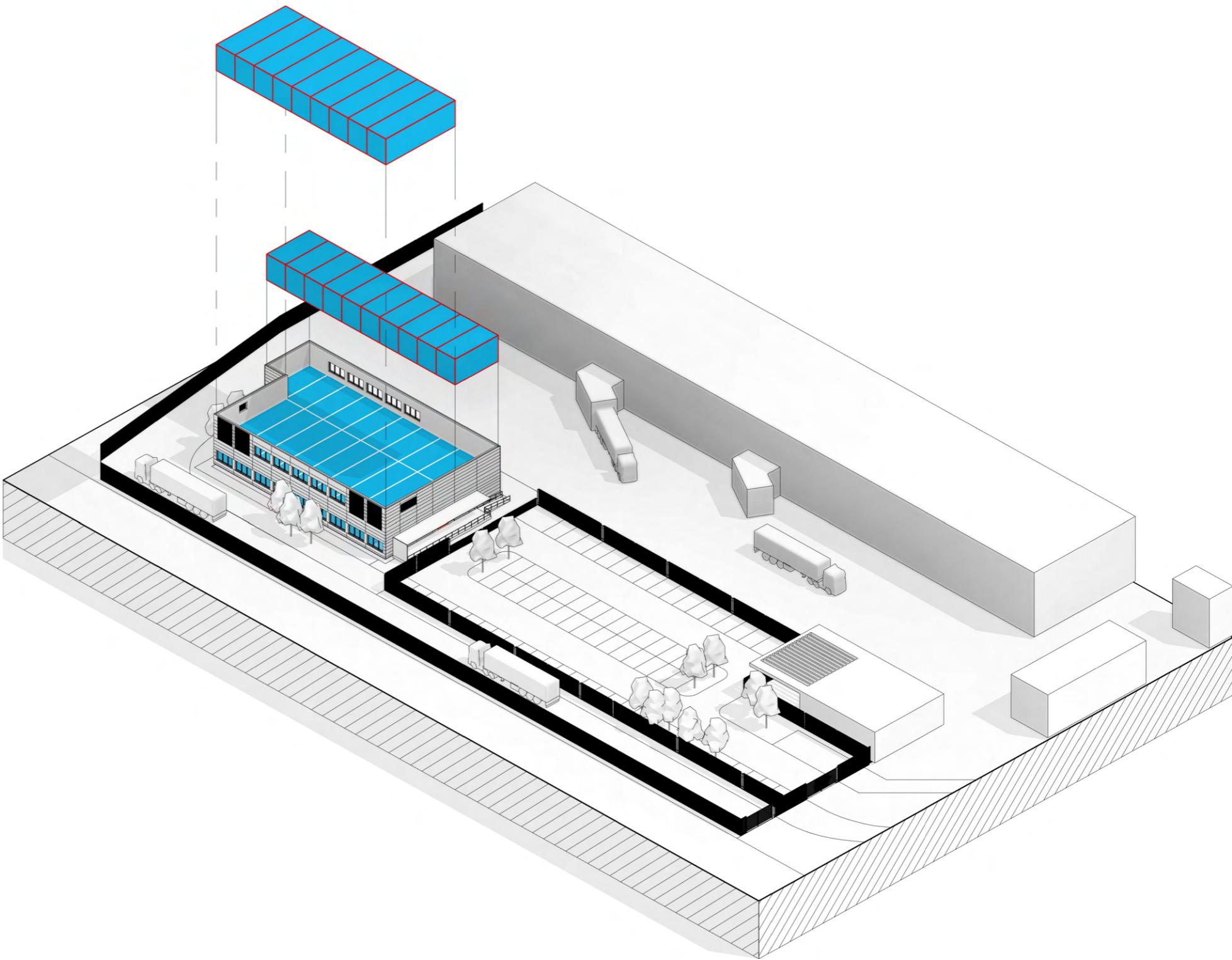


professional work
portfolio.



aditya billava

2022-2025

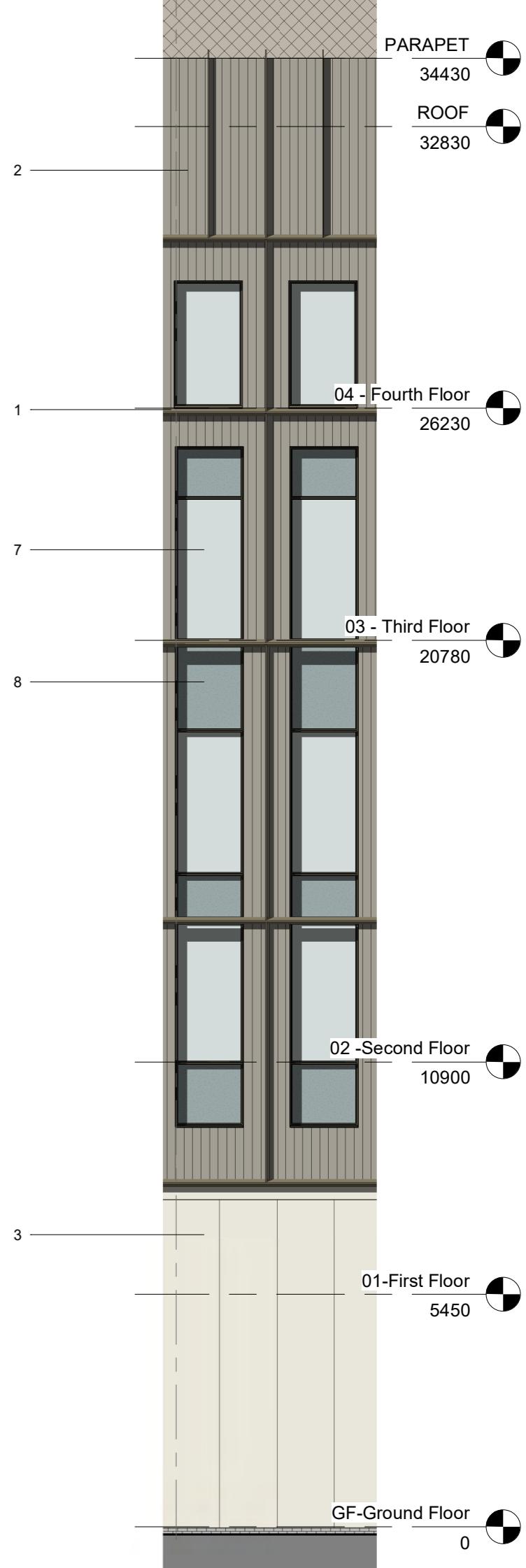
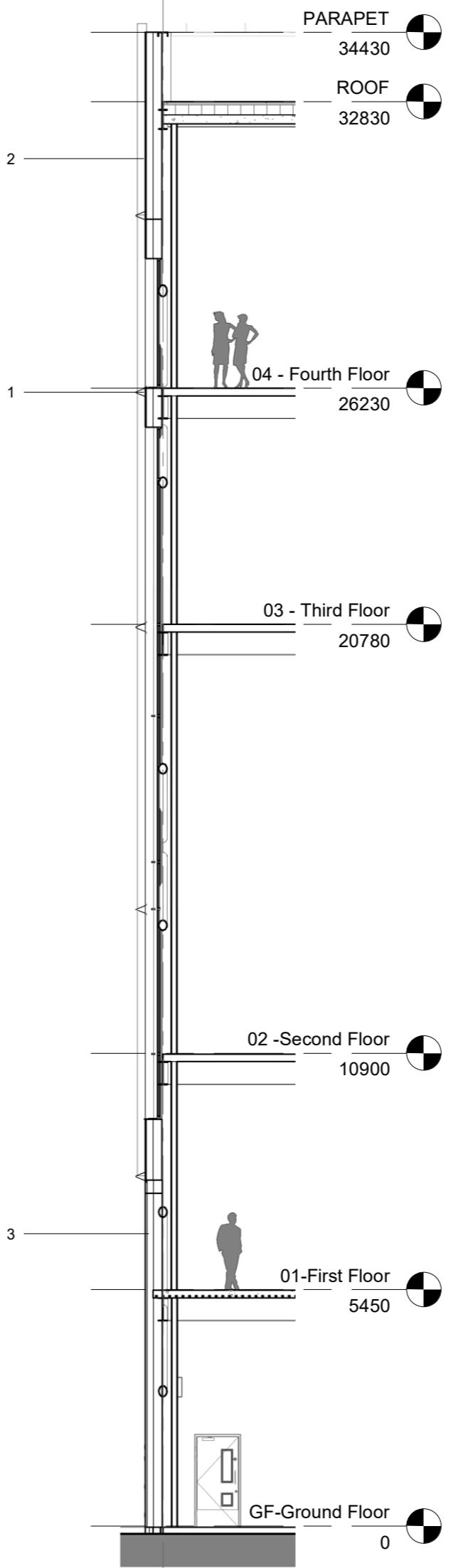
intro.

The following pages present selected professional projects completed during my employment as an **Architectural Designer at Merit**.

During my time at Merit, I initially worked within the **tenders team**, gaining experience in early-stage design, bid documentation, and project visualisation. I later transitioned to the **projects team**, where I contributed to detailed design development and delivery.

Due to confidentiality and non-disclosure agreements, certain project details and client names have been omitted. All work shown reflects my personal contributions within my professional capacity.

project stage selected works.



Drawing Standards:
Approved Document B

Industrial Normal Hazard Max Travel Distance
Single Direction: 22 (25m max)
Multi Direction: 29m (45m max)

Building occupancy: 30
No. escape routes: 3

L1 AFD required in accordance with BS 5839-1 as per Fire Engineer comment.

DO NOT SCALE IF IN DOUBT ASK

NOTES:

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.

ANY ANOMALIES TO BE REPORTED TO DESIGN DEPARTMENT PRIOR TO FABRICATION.

ANY DEVIATIONS FROM DRAWING TO BE REPORTED TO DESIGN DEPARTMENT PRIOR TO INSTALLATION.

1. The copyright in this drawing will remain vested in Merit. Merit will not be liable for any use third parties make of this drawing for any purpose other than that for which it was originally provided by Merit.

Merit own the Copyright to the Mechanical Electrical and Plumbing systems incorporated within this drawing. Replication or reproduction of such work under any circumstances requires a written license from Merit setting out the terms under which such replication and/or reproduction is permitted. Licence requests should be addressed to licence@merit.co.uk

2. This drawing is to be read in conjunction with all other relevant Architects, Engineers and specialists drawings, details and specifications.

3. Conflicting information shown on the Merit drawings or discrepancies between the information given by Merit and that provided by others must be referred to Merit before work proceeds.

4. Dimensions must not be scaled from this drawing, unless for statutory approval purposes (such as by planning or building control / building warrant departments).

5. Dimensions marked 'dimension to be site checked' are subject to confirmation by site measurement before construction proceeds.

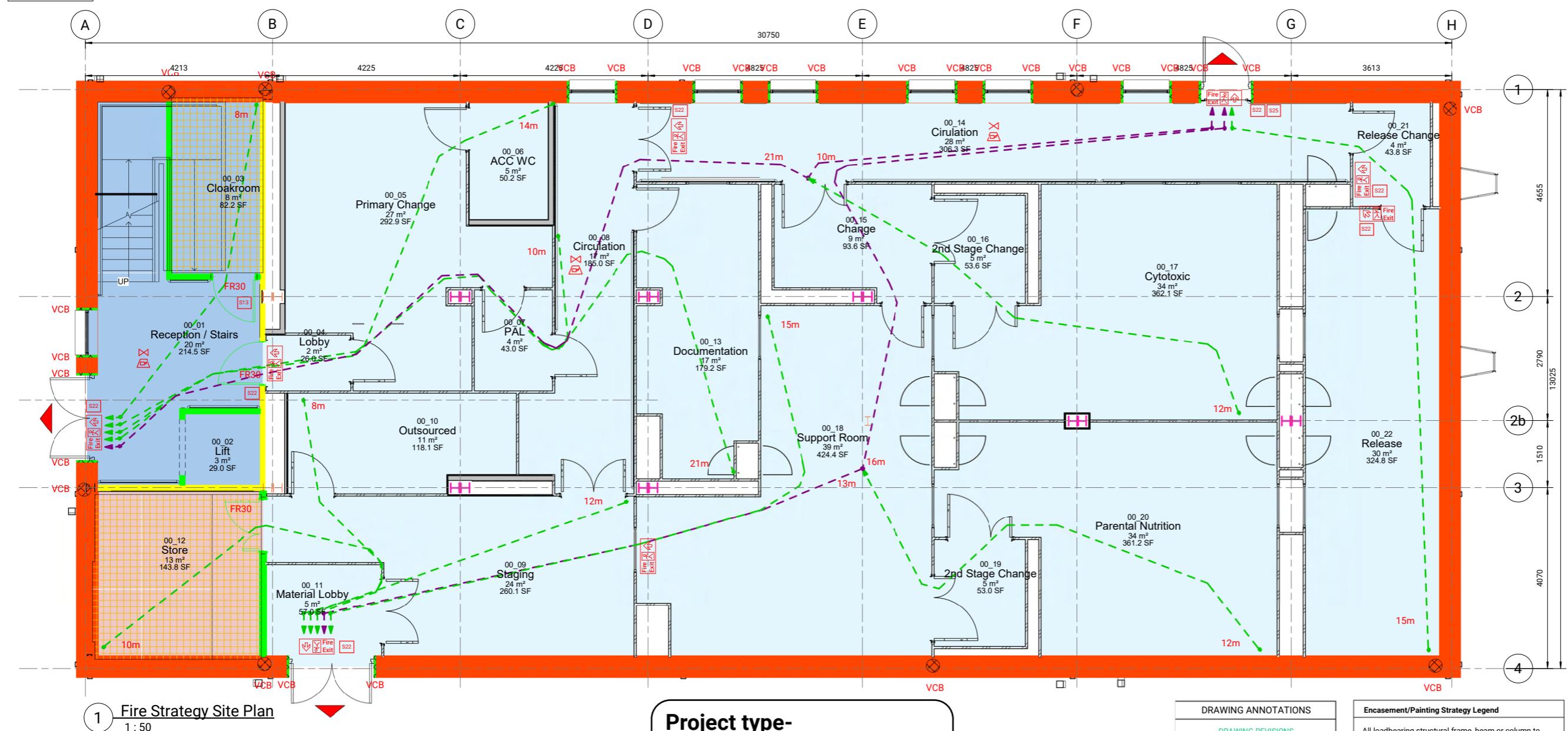
6. Subcontractor surveys, such as for the purposes of steelwork installation, take precedence over site dimensions indicated on this drawing. All surveys should ensure an accurate fit of components.

7. Temporary works associated with the construction of the project shall be the responsibility of the Principal Contractor.

8. Where any temporary works or scaffolding are required the Principal Contractor shall appoint a competent and suitably experienced Temporary Works Coordinator (TWC). Refer to BS 5975 for guidance on temporary works and the role of a TWC.

9. Calculations and drawings of all Contractor designed structural items associated with Merit's design responsibilities shall be submitted to the Engineer for comment at least 10 days prior to manufacture. Any comments made by Merit do not absolve the Contractor of their design responsibilities.

10. The use of any proprietary products shown on this drawing or in any associated specifications is based solely on the data made available to Merit by the manufacturer and/or supplier, and Merit has made no detailed check of the proprietary aspects of that product which remain the sole liability of the manufacturer and/or product supplier. All proprietary products must be installed in accordance with the manufacturer's requirements.



Fire Suppression

Compartment 1
Compartment 2
Lift/ Stair Core

APPROVED DOCUMENT B FIRE LEGEND

ADB FIRE PROTECTION INFORMATION

The following is the relevant information this document must resolve as per Building Regulations Approved Document B.

- Escape routes - this should include exit capacity (i.e. the maximum allowable number of people for each storey and for the building.)
- Fire resisting construction and location of fire-separating elements (including cavity barriers in walk-in spaces).
- Doorsets, fire doors fitted with a self-closing device and other doors relevant to the fire safety strategy, such as doors equipped with relevant hardware.
- Locations of fire detector heads (e.g. heat and smoke detectors), manual call points, fire alarm control and indicating equipment, fire alarm sounders, fire safety signage, emergency lighting, fire extinguishers, dry or wet fire mains and other firefighting equipment, and hydrants outside the building.
- Any sprinkler systems, including isolating valves and control equipment.
- Any smoke control systems, or ventilation systems with a smoke control function, including mode of operation and control systems.
- Any high risk areas (e.g. heating machinery).
- Any power supplies or power generating installations.
- The location of secure information boxes.

Fire strategy drawings shall be read in conjunction with the Fire Strategy Report and are to be reviewed and approved by the appointed Fire Engineer and the relevant Building Control Body.

ESCAPE ROUTES

- Final or Storey Exit
- Emergency Escape Route Single Direction
- Emergency Escape Route Multi Direction

FIRE RESISTING CONSTRUCTION

- Indicates 30 min Fire Resisting Construction
- Indicates 60 min Fire Resisting Construction
- Indicates 90 min Fire Resisting Construction
- Indicates 120 min Fire Resisting Construction
- Cavity Barrier to Provide 30 min Fire Resistance
- CB Indicates 30 min Fire Resisting Construction
- CB Indicates 60 min Fire Resisting Construction
- CB Indicates 90 min Fire Resisting Construction
- CB Indicates 120 min Fire Resisting Construction

FIRE DOORSETS

Intumescent fire/smoke seals and self-closing devices must comply with EN 13501 for fire classification, ensuring integrity (I), insulation (I), and smoke control (S) where required. To be indicated on door schedules.

VP Vision panels to be provided to certain doors as indicated on plan.

Unless otherwise stated, all specified fire ratings are assumed to refer to both integrity and insulation performance.

All fire fighting equipment to be provided and installed by client's representatives. All subject to their review in conjunction with the appointed Fire Officer.

FIRE FIGHTING EQUIPMENT

- Portable fire extinguisher - Water type
- Portable fire extinguisher - Foam type
- Portable fire extinguisher - Carbon Dioxide type
- Portable fire extinguisher - Multi Purpose Dry

Fire blanket

Sand bucket

Fire safety equipment to be adequately and easily accessible. Extinguishers must be positioned in prominent locations for clear visibility and quick access. Compliance with BS 5306-8:2023 is required for the correct placement of fire extinguishers.

FIRE SAFETY SIGNAGE

Fire safety signs to comply with BS 5499 Graphical symbols and signs. Location of luminaires to be finalised by M&E drawing. Emergency exit signage to be either internally illuminated or illuminated by adjacent emergency fitting.

S22 SIGNS

viewed Head-On - as illustrated on plan

All signage placement subject to review on site visual inspection by building control officer and fire officer prior to hand-over and therefore may be subject to change.

Locations for fire alarm call points.

Area to be lit by emergency lighting (not exact luminaire point).

Area to have Fire alarm sounders. Final locations of alarm sounders to be finalised by specialist sub-contractor.

Area to have visible warning beacons. Final locations to be finalised by specialist sub-contractor.

"Fire Door - Keep Shut" signs (5mm min high lettering)

"Fire Door - Keep Locked Shut" signs (5mm min high lettering)

"Automatic Fire Door - Keep Clear" signs (5mm min high lettering)

Left from here

Down & left from here

Down from here

Up & right from here

Up & left from here

Up & left from here

Double sided exit signs

Fire action procedure notice which deals with discovery of fire, hearing alarm, evacuation and roll call

Door To Be Secured Open (Released on fire alarm)

"Fire Escape - Keep Clear" signs (5mm min high lettering)

"Fire Exit" sign and running man symbol

"Push bar to Open" sign - Panic Bar to Fire Exit doors

Fire Alarm Control Panel location. (Any type)

Security and access control requirements to be confirmed by the client. Locations of fire safety signage and manual fire alarm call points are subject to client review and formal approval.

HIGH RISK AREAS

Fire Hazardous Rooms High Risk

Fire Hazardous Rooms Low Risk

POWER SUPPLIES & SECURE INFORMATION BOXES

Location of sprinklers to be finalised by M&E drawing.

SPRINKLER SYSTEMS

Location of sprinklers to be finalised by M&E drawing.

Sprinkler Head Up

Sprinkler Head Down

SMOKE CONTROL SYSTEMS

Location of sprinklers to be finalised by M&E drawing.

SD Smoke Detector

| | | | | |
|-----|----------|---|----|----|
| P01 | 07.08.25 | Revised as per fire engineer comments | AM | AB |
| P07 | 22.07.25 | Revised as per Centurion comment | AB | MM |
| P06 | 18.07.25 | Revised as per design development | AB | MM |
| P05 | 21.05.25 | Revised as per Fire Engineer comment | AB | MM |
| P04 | 14.05.25 | Revised as per client comment | AB | MM |
| P03 | 29.04.25 | Revised as per client comment | AB | MM |
| P02 | 17.04.25 | Revised sheet number Updated as per fire engineer comment | AB | MM |

| | | | | |
|-----|----------|-------------|----|-----|
| P01 | 13.03.25 | PRELIMINARY | AB | MM |
| REV | DATE | DESCRIPTION | BY | APP |

S0 PRELIMINARY

MERIT

Unit 8, Northumberland Business Park
Cramlington, Northumberland
NE23 7RY

Telephone: +44 (0)1250 4330

Email: enquiries@merit.co.uk

Web: http://www.merit.co.uk

© WE OWN THE COPYRIGHT IN ALL WORK CREATED BY US OR FOR US. MANY OF OUR PRODUCTS

CIRCUMSTANCES REQUIRES A WRITTEN LICENSE FROM US SETTING OUT THE TERMS UNDER WHICH

REPLICATION AND/OR REPRODUCTION IS PERMITTED. OUR HEAVY INVESTMENT IN

INNOVATION AND DESIGN MEANS THAT WE DO NOT GRANT LICENSES UNLESS THE TEST

BE PUSSED TO THE FULL EXTENT OF OUR RIGHTS. LICENSE REQUESTS SHOULD BE ADDRESSED TO

info@merit.co.uk

Client:

Drawing Title:

Fire Strategy - Ground Floor

Project Name: A1
Size: A1
Status: As Indicated
Drawn By: AB
Drawn Date: 13.03.2025
Checked By: MM
Approved By: MM
Approved Date: 13.03.2025

Drawing No: 10752-MRT-ZZ-GF-DR-A-3074
Rev: P08



NOTES:

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.

ANY ANOMALIES TO BE REPORTED TO DESIGN DEPARTMENT PRIOR TO FABRICATION.

ANY DEVIATIONS FROM DRAWING TO BE REPORTED TO DESIGN DEPARTMENT PRIOR TO INSTALLATION.

1. All copyright remains with Merit. Drawings are issued for this project only and must not be reused, copied, or adapted without written permission. Licence requests: <http://merit.co.uk>.

2. Drawings must be read in conjunction with all relevant architectural, engineering, and specialist information to ensure full coordination.

3. Any discrepancies within these drawings or between them and other documents must be referred to Merit before work proceeds.

4. Do not scale from drawings. Use figured dimensions only. Dimensions marked "to be site checked" must be verified prior to construction.

5. Subcontractor surveys (e.g. for steelwork) override indicative dimensions and must ensure accurate fit and coordination.

6. The Principal Contractor is responsible for all temporary works and must appoint a competent Temporary Works Coordinator (TWC) in line with BS 5975.

7. Contractor-designed elements affecting Merit's scope must be submitted to the Engineer a minimum of 10 working days before fabrication. Merit's review does not transfer design responsibility.

8. Proprietary products shown are based on supplier data. Merit accepts no liability for their performance. Installation must follow manufacturer instructions.

9. All works must comply with the Construction (Design and Management) Regulations 2015. The Principal Contractor is responsible for site health, safety, and coordination.

10. Any significant residual design risks are highlighted in drawings or specifications and must be addressed in construction planning.

11. Only the latest revision of each drawing is to be used. Superseded versions must be removed from circulation.

Acoustic design is subject to building control sign off.

Single leaf doors in labs subject to removal following fire engineer review.

| |
|---------------------------|
| DRAWING ANNOTATIONS |
| DRAWING REVISIONS |
| GENERAL NOTE & DIMENSIONS |
| IN ABEYANCE |

Partitions

- Rw 59 dB
- Rw 52 dB
- Rw 47 dB
- Rw 42 dB
- Rw 37 dB

Doors

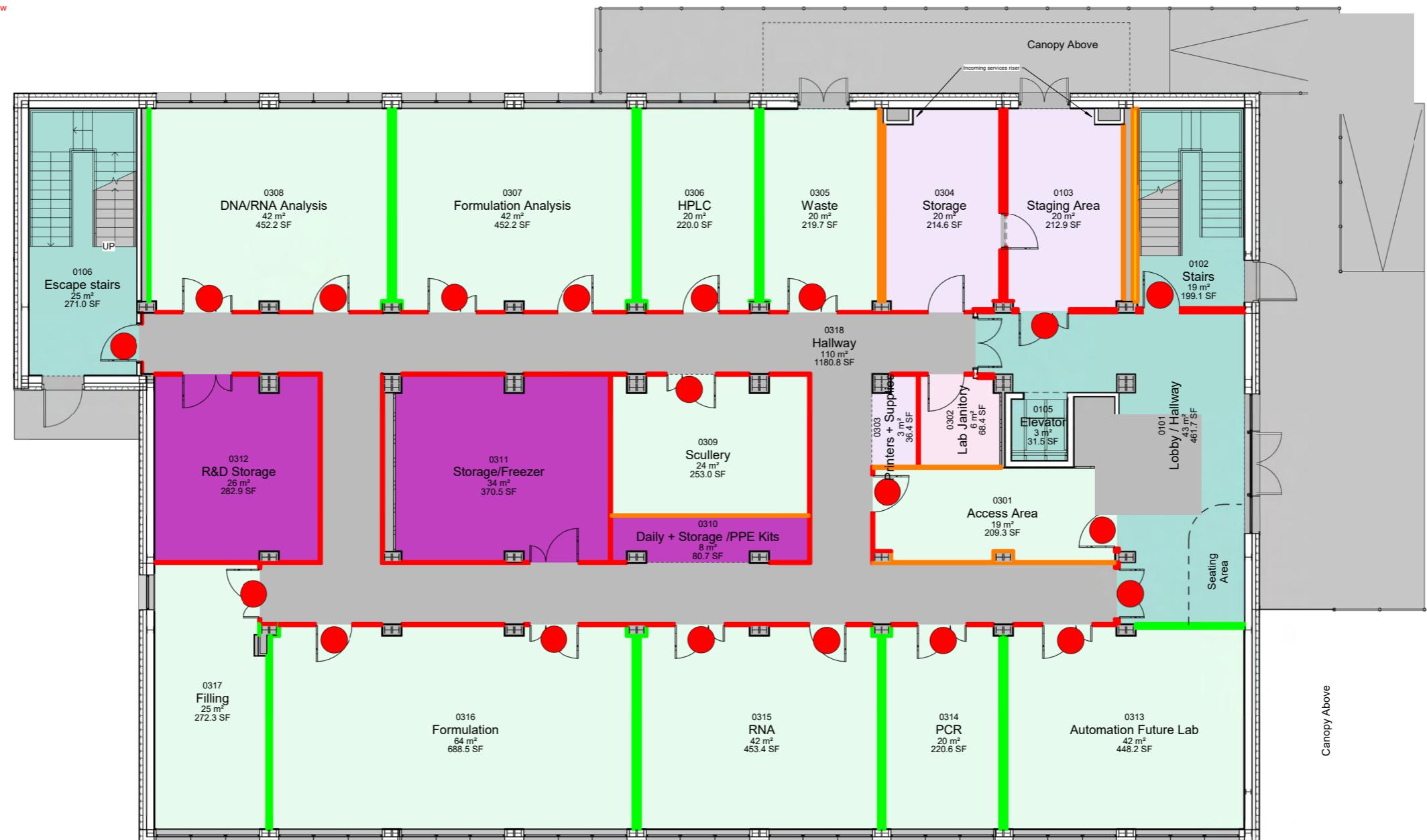
- Rw 35 dB
- Rw 30 dB

Glazed Screens

- Rw 45 dB
- Rw 38 dB

Background Noise Level

- CIRCULATION
- LAB AND PRODUCTION
- LIVING / SERVICES
- OTHER
- STORAGE



1 Ground Floor - Acoustic Plan 1 : 75

Acoustic Legend

Ceilings: Refer to the Reflected Ceiling Plan drawings for all ceiling ratings.

Rooms: The dB values listed for rooms represent their estimated noise tolerance (measured as LAeq over 30 minutes). The difference between the expected noise levels from adjacent spaces and the sound insulation performance of the separating construction must be less than the specified tolerance for each room.

Walls: The dB ratings shown for walls indicate their anticipated sound reduction performance. These ratings assume proper detailing at junctions and around any penetrations to maintain acoustic integrity.

Doors/Windows: The dB ratings for doors and windows specify the minimum required level of sound insulation for these components.

All stated values are intended as a design baseline and must be reviewed and confirmed with the Client, MEP consultants, and the Acoustic Consultant during detailed coordination.

All acoustic ratings shown are indicative and subject to verification.

**Project type-
Biotech- R&D Labs
Acoustics Strategy Plan**

| | | | | |
|-----|----------|-------------------------|----|-----|
| C01 | 10/07/25 | FINAL DESIGN SUBMISSION | AB | MM |
| P04 | 08/07/25 | For Final Review | AB | MM |
| P03 | 23/05/25 | Updated Layout | AB | MM |
| P02 | 23/05/25 | Updated Acoustic levels | AB | MM |
| P01 | 08/05/25 | PRELIMINARY | AB | MM |
| REV | DATE | DESCRIPTION | BY | APP |

Status: A4 TECHNICAL DESIGN

Unit 8, Northumberland Business Park
Cramlington, Northumberland
NE23 7RY
Telephone: +44 (0)191 250 4330
Email: enquiries@merit.co.uk
Web: <http://www.merit.co.uk>© WE OWN THE COPYRIGHT IN ALL WORK CREATED BY US OR FOR US. MANY OF OUR PRODUCTS
CIRCUMSTANCES REQUIRES A WRITTEN LICENSE FROM US SETTING OUT THE TERMS UNDER WHICH
SUCH REPLICATION AND/OR REPRODUCTION IS PERMITTED. OUR HEAVY INVESTMENT IN
INNOVATION AND DESIGN MEANS THAT WE OWN THE INTELLECTUAL PROPERTY RIGHTS
TO OUR INVESTMENT AND INTELLECTUAL PROPERTY RIGHTS AND BREACHES OF OUR COPYRIGHT WILL
BE PURSUED TO THE FULL EXTENT OF OUR RIGHTS. LICENCE REQUESTS SHOULD BE ADDRESSED TO
licences@merit.co.uk

Client:

Drawing Title:
Ground Floor Acoustic Plan
Proposed Layout
General Arrangement

Project Name: A1 Size As indicated

Drawn By: AB Drawn Date: 08/05/25 Checked By: MM Approved By: MM Approved Date: 08/05/25

Drawing No: 10729-MRT-ZZ-GF-DR-A-3081 Rev: C01

NOTES:

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.

ANY ANOMALIES TO BE REPORTED TO DESIGN DEPARTMENT PRIOR TO FABRICATION.

ANY DEVIATIONS FROM DRAWING TO BE REPORTED TO DESIGN DEPARTMENT PRIOR TO INSTALLATION.

1. All copyright remains with Merit. Drawings are issued for this project only and must not be reused, copied, or adapted without written permission. Licence requests: licence@merit.co.uk.

2. Drawings must be read in conjunction with all relevant architectural, engineering, and specialist information to ensure full coordination.

3. Any discrepancies within these drawings or between them and other documents must be referred to Merit before work proceeds.

4. Do not scale from drawings. Use figured dimensions only. Dimensions marked "to be site checked" must be verified prior to construction.

5. Subcontractor surveys (e.g. for steelwork) override indicative dimensions and must ensure accurate fit and coordination.

6. The Principal Contractor is responsible for all temporary works and must appoint a competent Temporary Works Coordinator (TWC) in line with BS 5975.

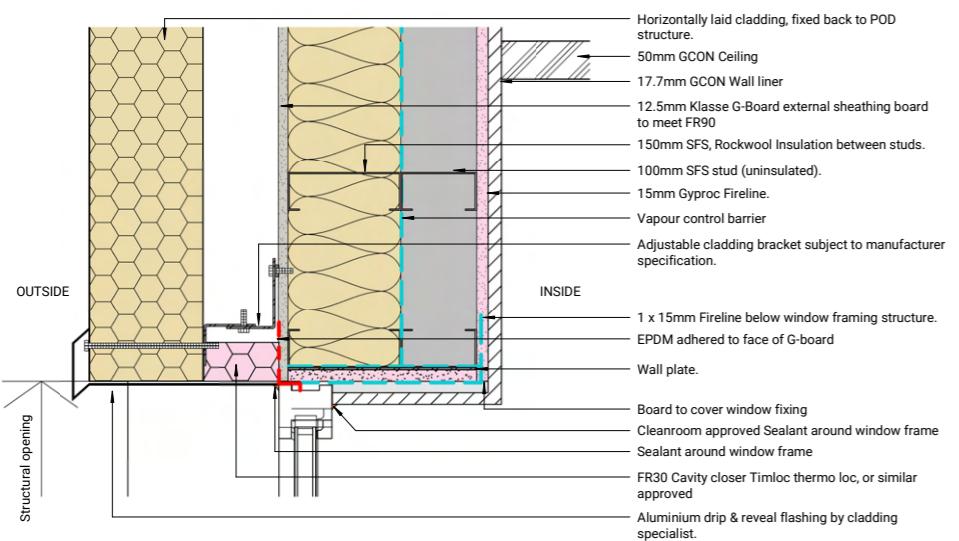
7. Contractor-designed elements affecting Merit's scope must be submitted to the Engineer a minimum of 10 working days before fabrication. Merit's review does not transfer design responsibility.

8. Proprietary products shown are based on supplier data. Merit accepts no liability for their performance. Installation must follow manufacturer instructions.

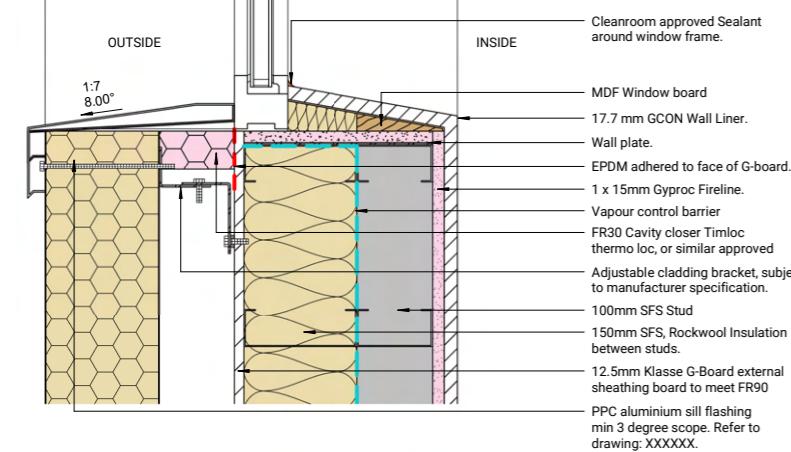
9. All works must comply with the Construction (Design and Management) Regulations 2015. The Principal Contractor is responsible for site health, safety, and coordination.

10. Any significant residual design risks are highlighted in drawings or specifications and must be addressed in construction planning.

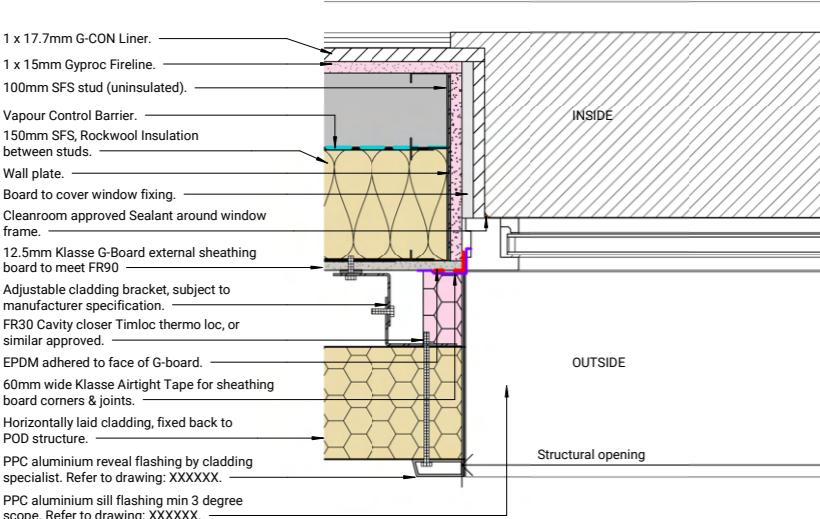
11. Only the latest revision of each drawing is to be used. Superseded versions must be removed from circulation.



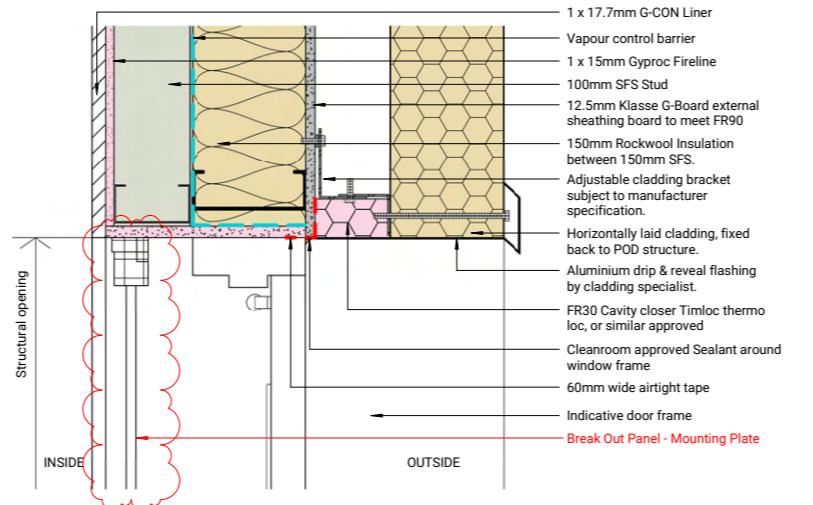
1 Envelope- Ground Floor- Window Head- Section detail



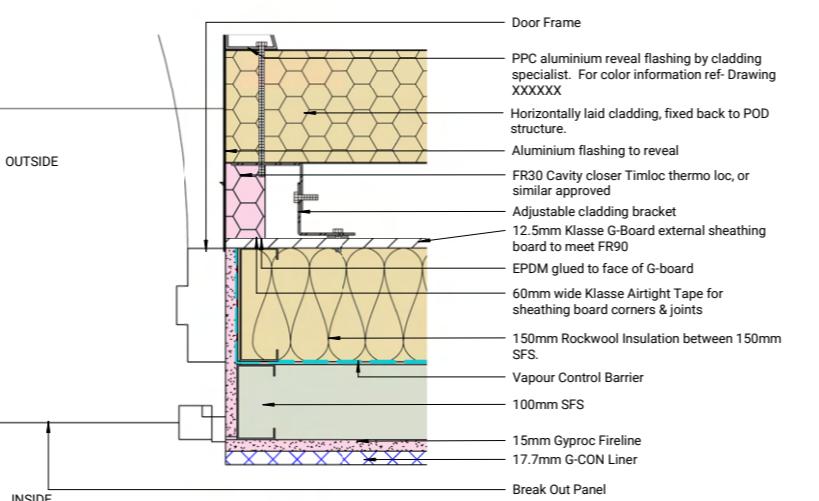
8 Envelope- Cleanroom GF - Window Sill- Section detail MP



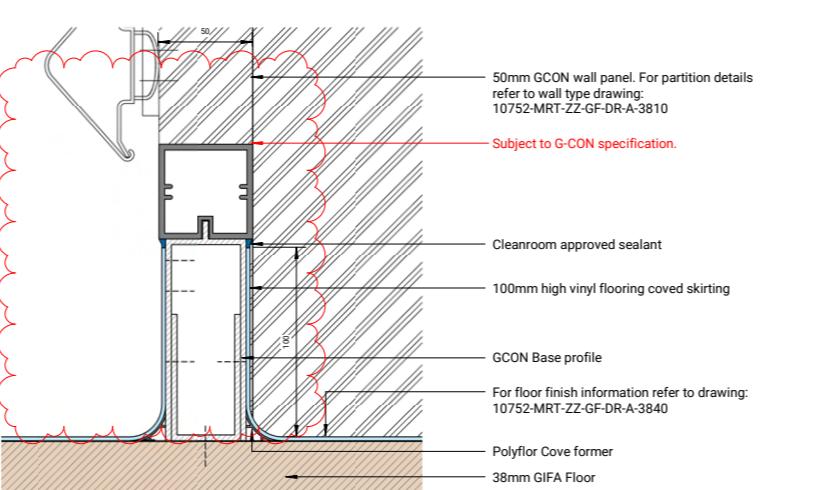
6 Envelope Detail - GF Cleanroom Window Jamb - Plan MP



2 G-CON Break-Out Panel/ Door Section Detail Head



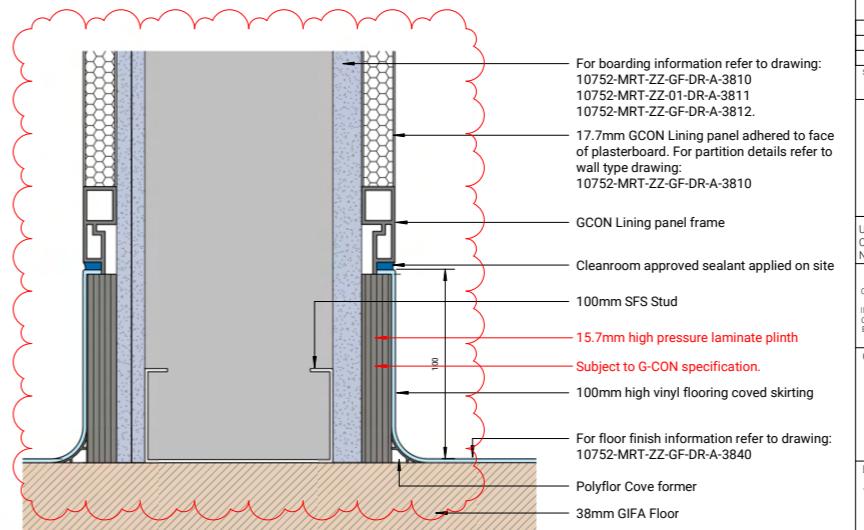
9 G-CON Break-Out Panel/ Door Plan Detail



3 Skirting Detail- Vinyl Coving at Cleanroom panel

| DRAWING ANNOTATIONS | |
|---------------------------|--|
| DRAWING REVISIONS | |
| GENERAL NOTE & DIMENSIONS | |
| IN ABEYANCE | |

Project type- Healthcare- Aseptic Facility
Typical Cleanroom details



4 Skirting detail- Vinyl Coving at Cleanroom liner

| | | | | | | | |
|---|------------|--------------------------------|-------------|----------------|--|--|--|
| P02 | 10.09.25 | PRELIMINARY | AB | MM | | | |
| P01 | 08.08.25 | PRELIMINARY | AB | MM | | | |
| REV | DATE | DESCRIPTION | BY | APP | | | |
| Status | | | | S0 PRELIMINARY | | | |
| MERIT | | | | | | | |
| Unit 8, Northumberland Business Park | | Telephone: +44 (0)191 250 4330 | | | | | |
| Cramlington, Northumberland | | Email: enquiries@merit.co.uk | | | | | |
| Web: http://www.merit.co.uk | | | | | | | |
| © WE OWN THE COPYRIGHT IN ALL WORK CREATED BY US OR FOR US. MANY OF OUR PRODUCTS | | | | | | | |
| CIRCUMSTANCES REQUIRES A WRITTEN LICENSE FROM US SETTING OUT THE TERMS UNDER WHICH | | | | | | | |
| SUCH REPLICATION AND/OR REPRODUCTION IS PERMITTED, OUR HEAVY INVESTMENT IN | | | | | | | |
| INNOVATION AND DESIGN DEMANDS THAT WE ARE COMPENSATED FOR THE COST OF | | | | | | | |
| TESTING AND DEVELOPMENT OF OUR INVESTMENT AND INTELLECTUAL PROPERTY RIGHTS AND BREACHES OF OUR COPYRIGHT WILL | | | | | | | |
| BE PURSUED TO THE FULL EXTENT OF OUR RIGHTS. LICENCE REQUESTS SHOULD BE ADDRESSED TO | | | | | | | |
| licences@merit.co.uk | | | | | | | |
| Client: | | | | | | | |
| Drawing Title: | | | | | | | |
| Typical Cleanroom Details 1 | | | | | | | |
| Project Name: | | | | | | | |
| Size A1 | | | | | | | |
| Drawn By | Drawn Date | Checked By | Approved By | Approved Date | | | |
| AB | 08.08.25 | MM | TW | 08.08.25 | | | |
| Drawing No. | Rev | | | | | | |
| 10752-MRT-ZZ-XX-DR-A-3710 | P02 | | | | | | |

NOTES:

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.

ANY ANOMALIES TO BE REPORTED TO DESIGN DEPARTMENT PRIOR TO FABRICATION.

ANY DEVIATIONS FROM DRAWING TO BE REPORTED TO DESIGN DEPARTMENT PRIOR TO INSTALLATION.

1. All copyright remains with Merit. Drawings are issued for this project only and must not be reused, copied, or adapted without written permission. Licence requests: licence@merit.co.uk.

2. Drawings must be read in conjunction with all relevant architectural, engineering, and specialist information to ensure full coordination.

3. Any discrepancies within these drawings or between them and other documents must be referred to Merit before work proceeds.

4. Do not scale from drawings. Use figured dimensions only. Dimensions marked "to be site checked" must be verified prior to construction.

5. Subcontractor surveys (e.g. for steelwork) override indicative dimensions and must ensure accurate fit and coordination.

6. The Principal Contractor is responsible for all temporary works and must appoint a competent Temporary Works Coordinator (TWC) in line with BS 5975.

7. Contractor-designed elements affecting Merit's scope must be submitted to the Engineer a minimum of 10 working days before fabrication. Merit's review does not transfer design responsibility.

8. Proprietary products shown are based on supplier data. Merit accept no liability for their performance. Installation must follow manufacturer instructions.

9. All works must comply with the Construction (Design and Management) Regulations 2015. The Principal Contractor is responsible for site health, safety, and coordination.

10. Any significant residual design risks are highlighted in drawings or specifications and must be addressed in construction planning.

11. Only the latest revision of each drawing is to be used. Superseded versions must be removed from circulation.

Membrane Detail Key:

- Vapour Control Layer - Tyvek Airguard Control.
- 60mm wide Klasse Airtight Tape for sheathing board corners & joints, 150mm wide Visqueen Pro single-sided edge tape for pod joints, or EPDM for factory-installed window & door openings.
- Damp Proof Membrane min. 1200 gauge.
- Breather membrane Tyvek Supro.

| DRAWING ANNOTATIONS | | |
|-----------------------------|----------|-----------------------------------|
| DRAWING REVISIONS | | |
| GENERAL NOTE & DIMENSIONS | | |
| IN ABEYANCE | | |
| P01 | 23.09.25 | Updated as per design development |
| P01 | 08.08.25 | PRELIMINARY |
| REV | DATE | AB MM |
| REV | DATE | BY APP |
| Status: S3 REVIEW & COMMENT | | |

Unit 8, Northumberland Business Park
Cramlington, Northumberland
NE23 0RY

Telephone: +44 (0)191 250 4330
Email: enquiries@merit.co.uk
Web: http://www.merit.co.uk

© WE OWN THE COPYRIGHT IN ALL WORK CREATED BY US OR FOR US. MANY OF OUR PRODUCTS ARE ALSO PATENT PROTECTED. REPRODUCTION OR REPRODUCTION OF SUCH WORK UNDER ANY CONDITIONS IS PROHIBITED UNLESS EXPRESSLY AGREED IN WRITING WITH US. ANY SUCH REPLICATION AND/OR REPRODUCTION IS PERMITTED. OUR HEAVY INVESTMENT IN INNOVATION AND PRODUCT DEVELOPMENT NECESSARILY REQUIRES US TO RIGOROUSLY PROTECT OUR INTELLECTUAL PROPERTY RIGHTS. THIS DOCUMENT IS THE PROPERTY OF MERIT AND WILL BE PURSUED TO THE FULL EXTENT OF OUR RIGHTS. LICENCE REQUESTS SHOULD BE ADDRESSED TO licence@merit.co.uk

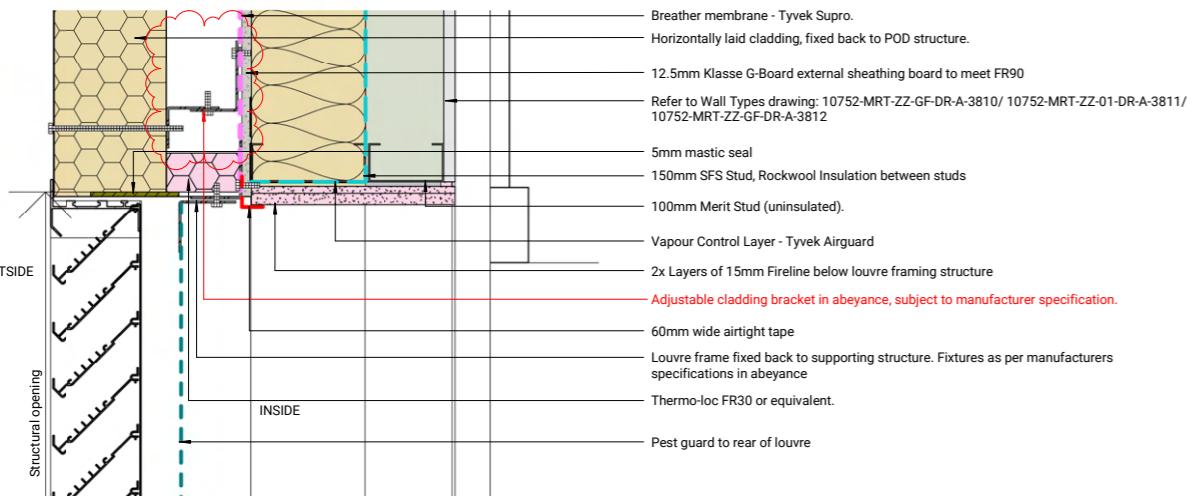
Client:

Drawing Title:
Envelope
Opening Layout
Details

Project Name: Size: A1
Scale: As indicated

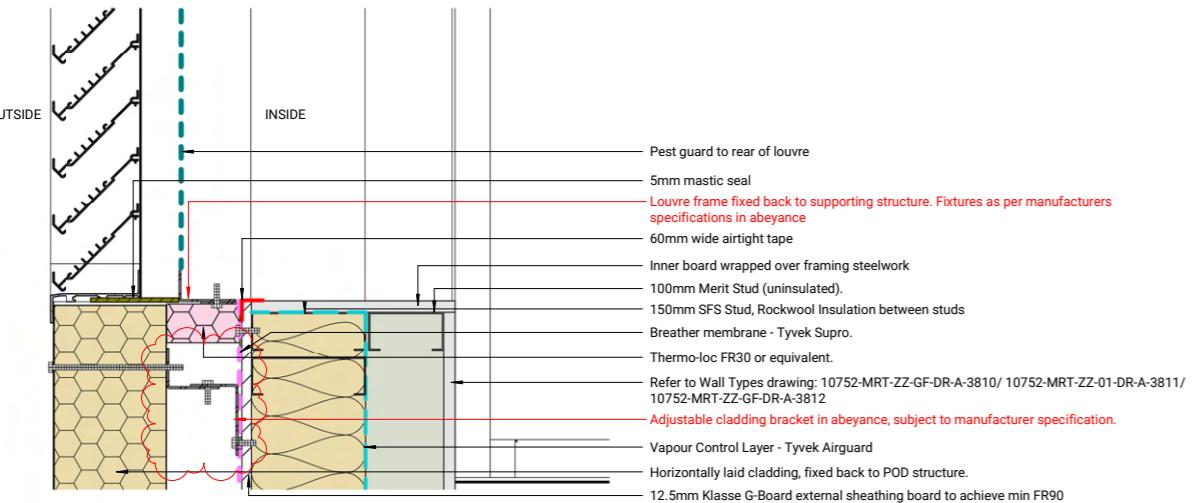
Drawn By: AB Drawn Date: 08.08.25 Checked By: MM Approved By: TW Approved Date: 08.08.25

Drawing No: 10752-MRT-ZZ-ZZ-DR-A-3738 Rev: P02



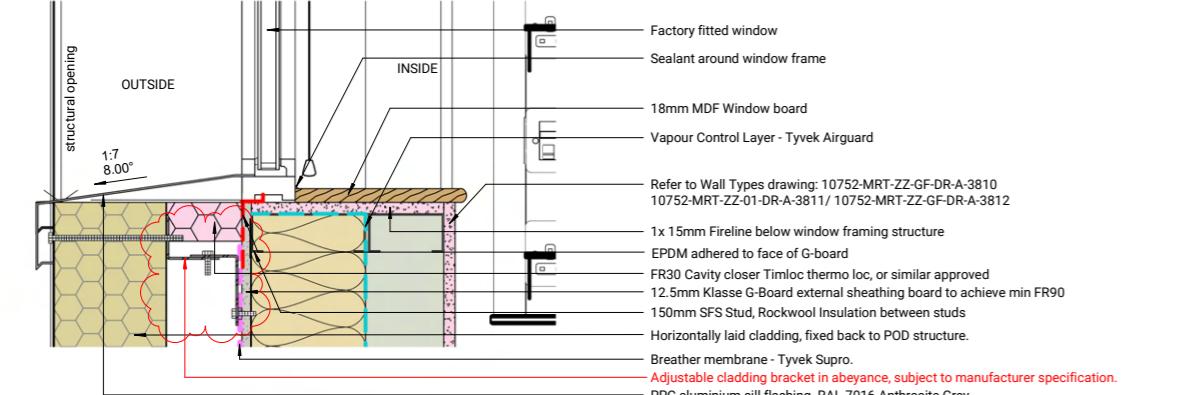
1 Envelope- Louvre head- Section detail

1 : 5



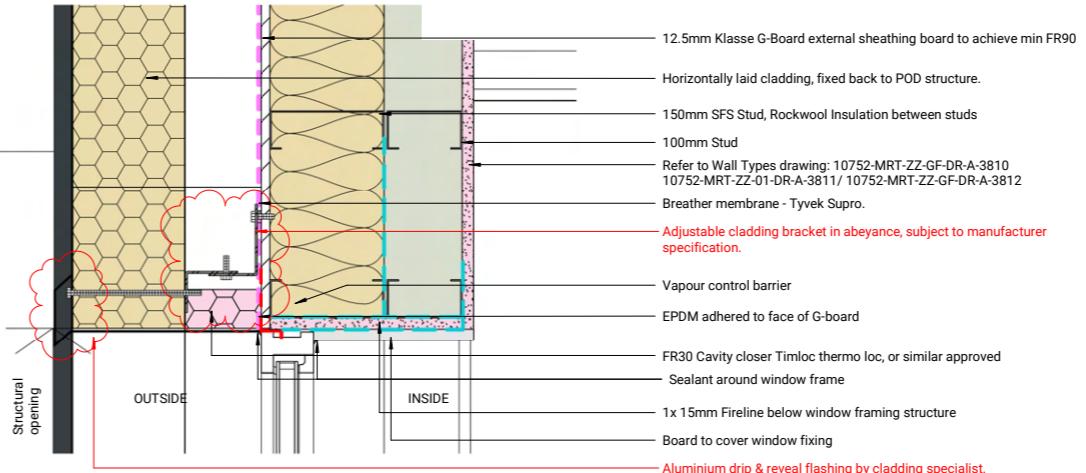
2 Envelope- Louvre base- Section detail

1 : 5



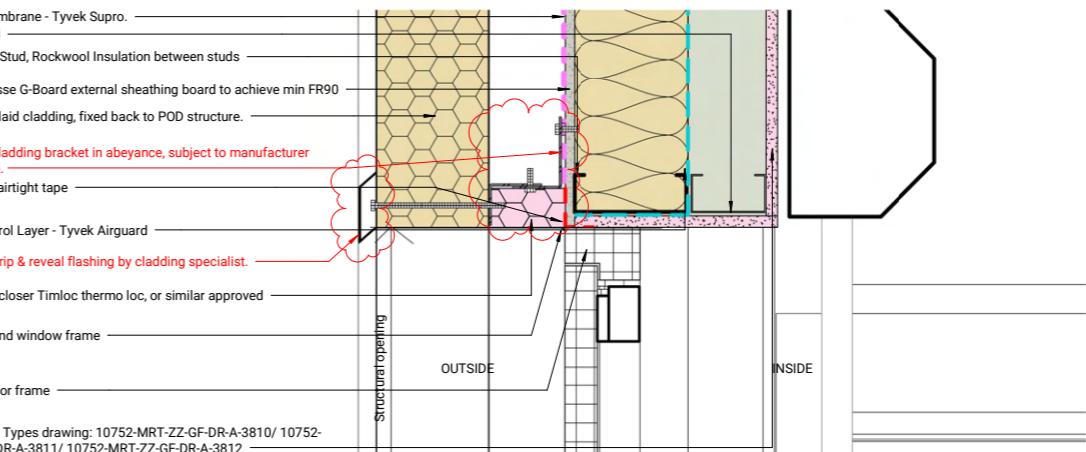
3 Envelope- FF Level- Window Sill Section detail

1 : 5



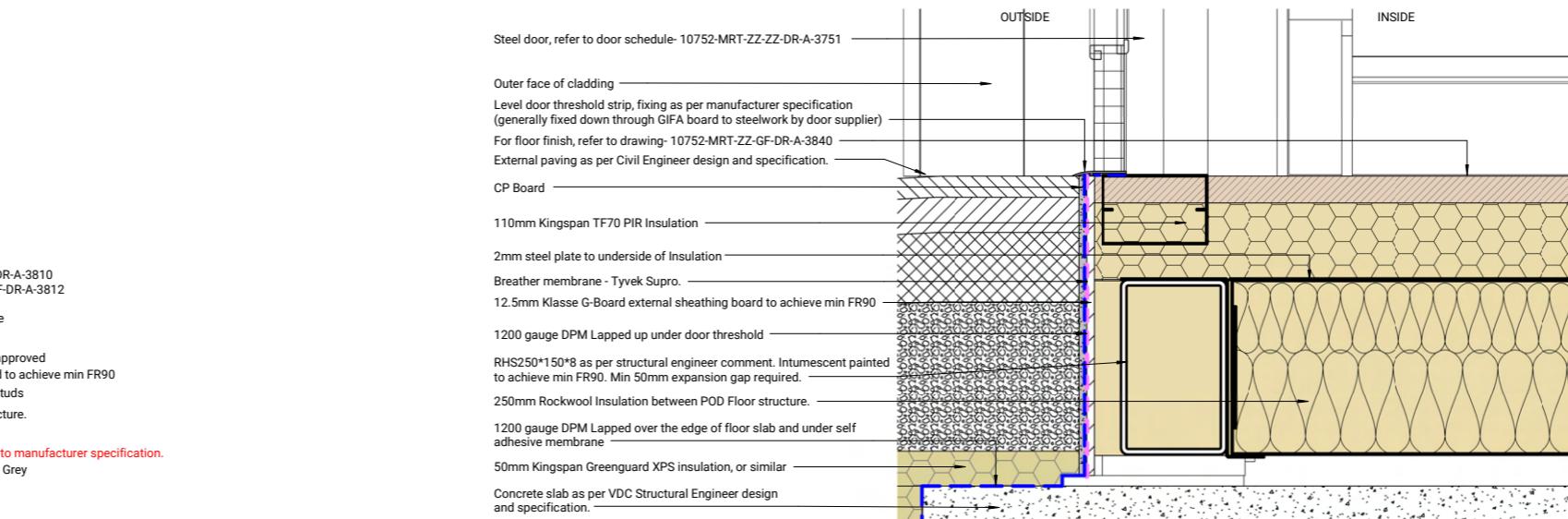
4 Envelope- FF Level- Window Head- Section detail

1 : 5



5 Envelope- Door Head- Section detail

1 : 5



6 Envelope- Door Threshold- Section detail

1 : 5

Project type-
Healthcare- Aseptic Facility
Envelope details

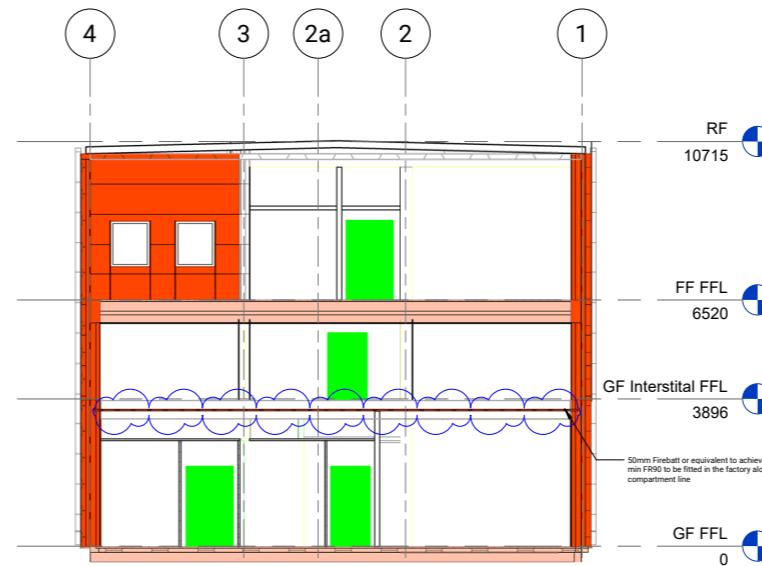
0MM

50MM



1 Fire Strategy Section 1

1 : 100



3 Fire Strategy Section 3

1 : 100



2 Fire Strategy Section 2

1 : 100

**Project type-
Healthcare- Aseptic Facility
Fire Strategy Sections**

| DRAWING ANNOTATIONS |
|---------------------------|
| DRAWING REVISIONS |
| GENERAL NOTE & DIMENSIONS |
| IN ABEYANCE |

| | | | | |
|-----|----------|---------------------------------------|----|----|
| P03 | 06.10.25 | Updated fire strategy sections | AM | AB |
| P02 | 07.08.25 | Revised as per fire engineer comments | AM | AB |
| P01 | 22.07.25 | PRELIMINARY | AB | MM |

REV DATE DESCRIPTION BY APP

Status S5 REVIEW & COMMENT



Unit 8, Northumberland Business Park Telephone: +44 (0)191 250 4330
Cramlington, Northumberland Email: enquiries@merit.co.uk
NE23 7RY Web: http://www.merit.co.uk

© WE OWN THE COPYRIGHT IN ALL WORK CREATED BY US OR FOR US. MANY OF OUR PRODUCTS
CIRCUMSTANCES REQUIRES A WRITTEN LICENSE FROM US SETTING OUT THE TERMS UNDER WHICH
SUCH REPLICATION AND/OR REPRODUCTION IS PERMITTED. OUR HEAVY INVESTMENT IN
INNOVATION AND DESIGN MEANS THAT WE ARE VIGILANT IN PROTECTING OUR INVESTMENT AND
INTELLECTUAL PROPERTY RIGHTS AND BREACHES OF OUR COPYRIGHT WILL
BE PURSUED TO THE FULL EXTENT OF OUR RIGHTS. LICENCE REQUESTS SHOULD BE ADDRESSED TO
licences@merit.co.uk

Client:

Drawing Title:
Sections
Fire Strategy
Proposed Design

Project Name: Size: A1 As Indicated

Drawn By: AB Drawn Date: 21.07.25 Checked By: MM Approved By: MM Approved Date: 21.07.25

Drawing No: 10752-MRT-ZZ-ZZ-DR-A-3072 Rev: P03

APPROVED DOCUMENT B FIRE LEGEND

ADB FIRE PROTECTION INFORMATION

The following is the relevant information this document must resolve as per Building Regulations Approved Document B.

- Escape routes - this should include exit capacity (i.e. the maximum allowable number of people for each storey and for the building).
- Fire resisting construction and location of fire-separating elements (including cavity barriers in walkways).
- Fire doors, fire doorsets fitted with a self-closing device and other doors relevant to the fire safety strategy, such as doors equipped with relevant hardware.
- Locations of fire detector heads (e.g. heat and smoke detectors), manual call points, fire alarm control and indicating equipment, fire alarm sounders, fire safety signage, emergency lighting, fire extinguishers, dry or wet fire mains and other firefighting equipment, and hydrants outside the building.
- Any sprinkler systems, including isolating valves and control equipment.
- Any smoke control systems, or ventilation systems with a smoke control function, including mode of operation and control systems.
- Any high risk areas (e.g. heating machinery).
- Any power supplies or power generating installations. The location of secure information boxes.

Fire strategy drawings shall be read in conjunction with the Fire Strategy Report and are to be reviewed and approved by the appointed Fire Engineer and the relevant Building Control Body.

ESCAPE ROUTES

- Final or Storey Exit
- Emergency Escape Route Single Direction
- Emergency Escape Route Multi Direction

FIRE RESISTING CONSTRUCTION

- Indicates 30 min Fire Resisting Construction
- Indicates 60 min Fire Resisting Construction
- Indicates 90 min Fire Resisting Construction
- Indicates 120 min Fire Resisting Construction
- Cavity Barrier to Provide 30 min Fire Resistance
- CB Indicates 30 min Fire Resisting Construction
- CB Indicates 60 min Fire Resisting Construction
- CB Indicates 90 min Fire Resisting Construction
- CB Indicates 120 min Fire Resisting Construction

Intumescent fire/smoke seals and self-closing devices must comply with EN 13501 for fire classification, ensuring integrity (E), insulation (I), and smoke control (S) where required. To be indicated on door schedules.

Vision panels to be provided to certain doors as indicated on plan.

Unless otherwise stated, all specified fire ratings are assumed to refer to both integrity and insulation performance.

FIRE FIGHTING EQUIPMENT

All fire fighting equipment to be provided and installed by client's representatives. All subject to their review in conjunction with the appointed Fire Officer.

- Portable fire extinguisher - Water type
- Portable fire extinguisher - Foam type
- Portable fire extinguisher - Carbon Dioxide type
- Portable fire extinguisher - Multi Purpose Dry

Fire blanket

Sand bucket

Fire safety equipment to be adequately and easily accessible. Extinguishers must be positioned in prominent locations for clear visibility and quick access. Compliance with BS 5306-8:2023 is required for the correct placement of fire extinguishers.

FIRE SAFETY SIGNAGE

Fire safety signs to comply with BS 5499 Graphical symbols and signs. Location of luminaires to be finalised by M&E drawing. Emergency exit signage to be either internally illuminated or illuminated by adjacent emergency fitting.

S22 SIGNS viewed Head-On - as illustrated on plan

All signage placement subject to review in on-site visual inspection by building control officer and fire officer prior to hand-over and therefore may be subject to change.

Straight on/straight on & up from here

Up & right from here

Right from here

Down & right from here

Down from here

Down & left from here

Left from here

Up & left from here

Up & left from here

Double sided exit signs

Fire action procedure notice which deals with discovery of fire, hearing alarm, evacuation and roll call

Security and access control requirements to be confirmed by the client. Locations of fire safety signage and manual fire alarm call points are subject to client review and formal approval.

All signage placement subject to review in on-site visual inspection by building control officer and fire officer prior to hand-over and therefore may be subject to change.

Straight on/straight on & up from here

Up & right from here

Right from here

Down & right from here

Down from here

Down & left from here

Left from here

Up & left from here

Up & left from here

Double sided exit signs

Fire action procedure notice which deals with discovery of fire, hearing alarm, evacuation and roll call

Security and access control requirements to be confirmed by the client. Locations of fire safety signage and manual fire alarm call points are subject to client review and formal approval.

All signage placement subject to review in on-site visual inspection by building control officer and fire officer prior to hand-over and therefore may be subject to change.

Straight on/straight on & up from here

Up & right from here

Right from here

Down & right from here

Down from here

Down & left from here

Left from here

Up & left from here

Up & left from here

Double sided exit signs

Fire action procedure notice which deals with discovery of fire, hearing alarm, evacuation and roll call

Security and access control requirements to be confirmed by the client. Locations of fire safety signage and manual fire alarm call points are subject to client review and formal approval.

All signage placement subject to review in on-site visual inspection by building control officer and fire officer prior to hand-over and therefore may be subject to change.

Straight on/straight on & up from here

Up & right from here

Right from here

Down & right from here

Down from here

Down & left from here

Left from here

Up & left from here

Up & left from here

Double sided exit signs

Fire action procedure notice which deals with discovery of fire, hearing alarm, evacuation and roll call

Security and access control requirements to be confirmed by the client. Locations of fire safety signage and manual fire alarm call points are subject to client review and formal approval.

All signage placement subject to review in on-site visual inspection by building control officer and fire officer prior to hand-over and therefore may be subject to change.

Straight on/straight on & up from here

Up & right from here

Right from here

Down & right from here

Down from here

Down & left from here

Left from here

Up & left from here

Up & left from here

Double sided exit signs

Fire action procedure notice which deals with discovery of fire, hearing alarm, evacuation and roll call

Security and access control requirements to be confirmed by the client. Locations of fire safety signage and manual fire alarm call points are subject to client review and formal approval.

All signage placement subject to review in on-site visual inspection by building control officer and fire officer prior to hand-over and therefore may be subject to change.

Straight on/straight on & up from here

Up & right from here

Right from here

Down & right from here

Down from here

Down & left from here

Left from here

Up & left from here

Up & left from here

Double sided exit signs

Fire action procedure notice which deals with discovery of fire, hearing alarm, evacuation and roll call

Security and access control requirements to be confirmed by the client. Locations of fire safety signage and manual fire alarm call points are subject to client review and formal approval.

All signage placement subject to review in on-site visual inspection by building control officer and fire officer prior to hand-over and therefore may be subject to change.

Straight on/straight on & up from here

Up & right from here

Right from here

Down & right from here

Down from here

Down & left from here

Left from here

Up & left from here

Up & left from here

Double sided exit signs

Fire action procedure notice which deals with discovery of fire, hearing alarm, evacuation and roll call

Security and access control requirements to be confirmed by the client. Locations of fire safety signage and manual fire alarm call points are subject to client review and formal approval.

All signage placement subject to review in on-site visual inspection by building control officer and fire officer prior to hand-over and therefore may be subject to change.

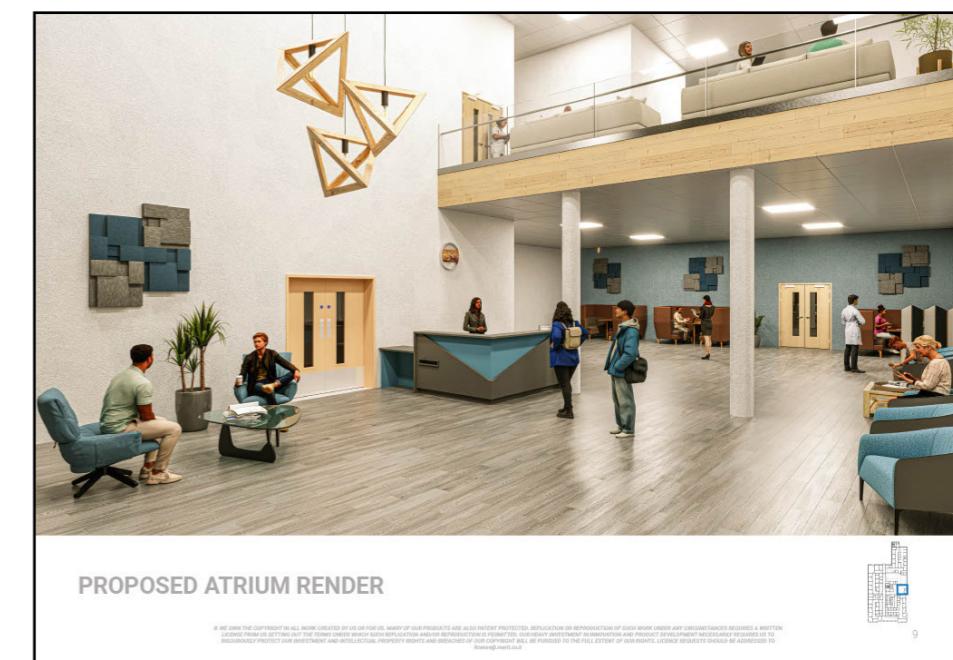
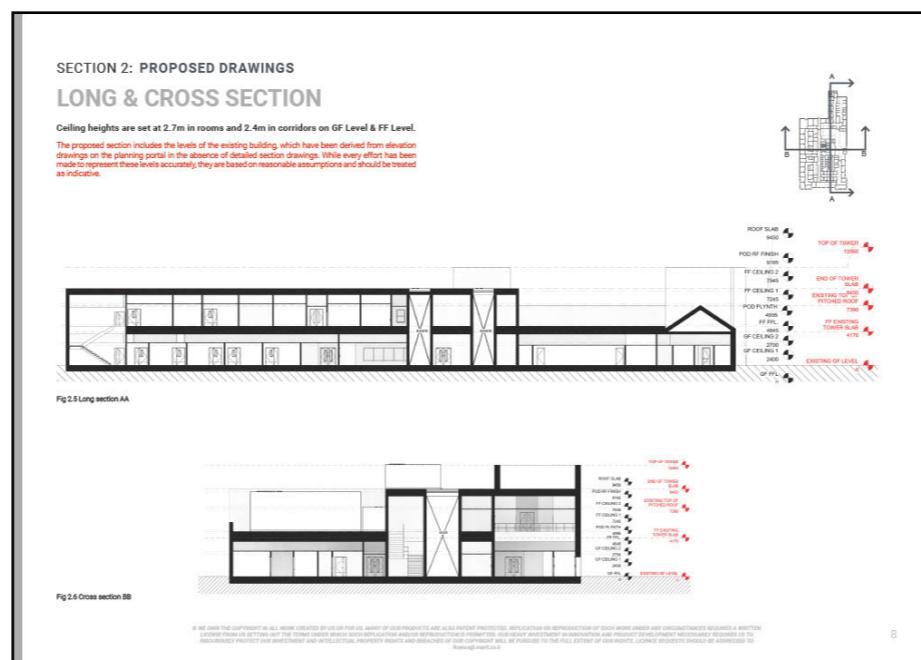
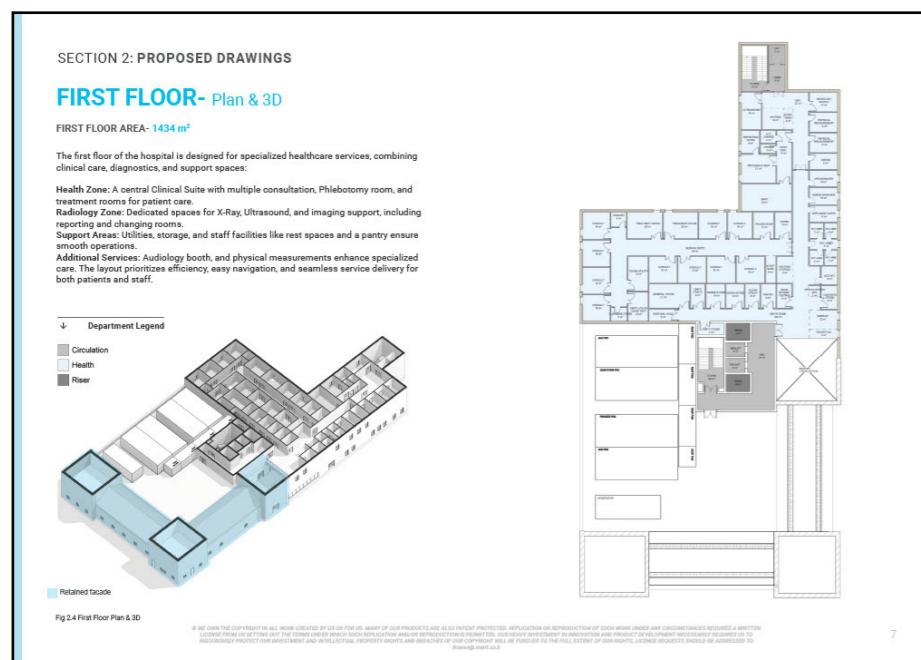
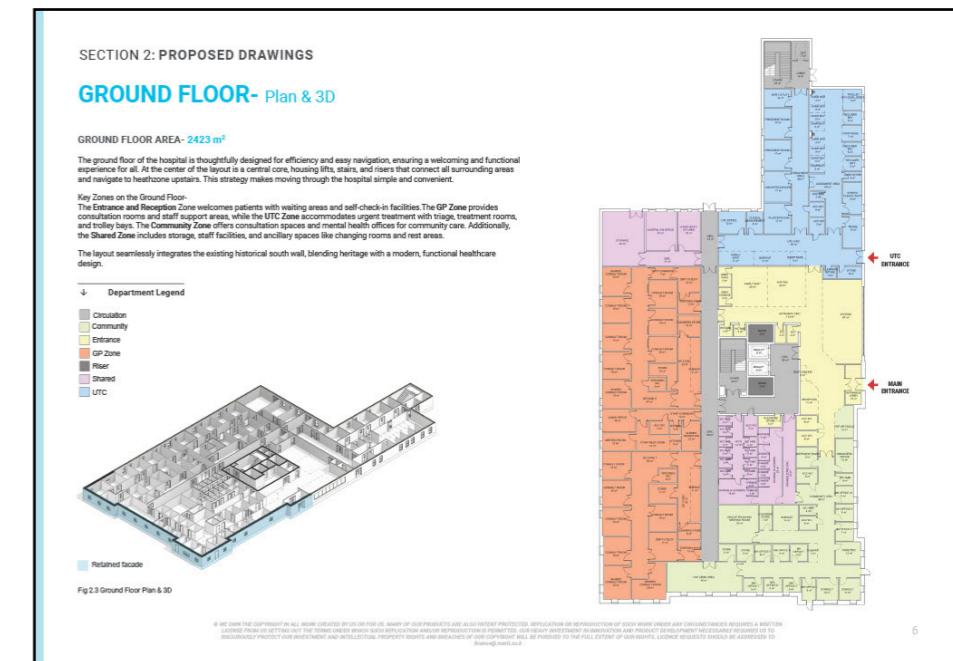
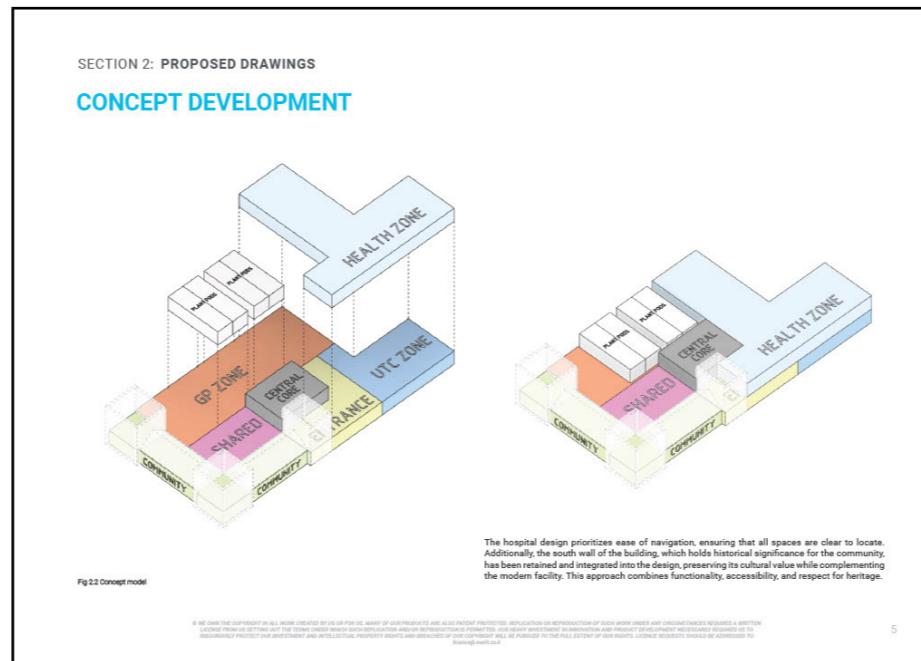
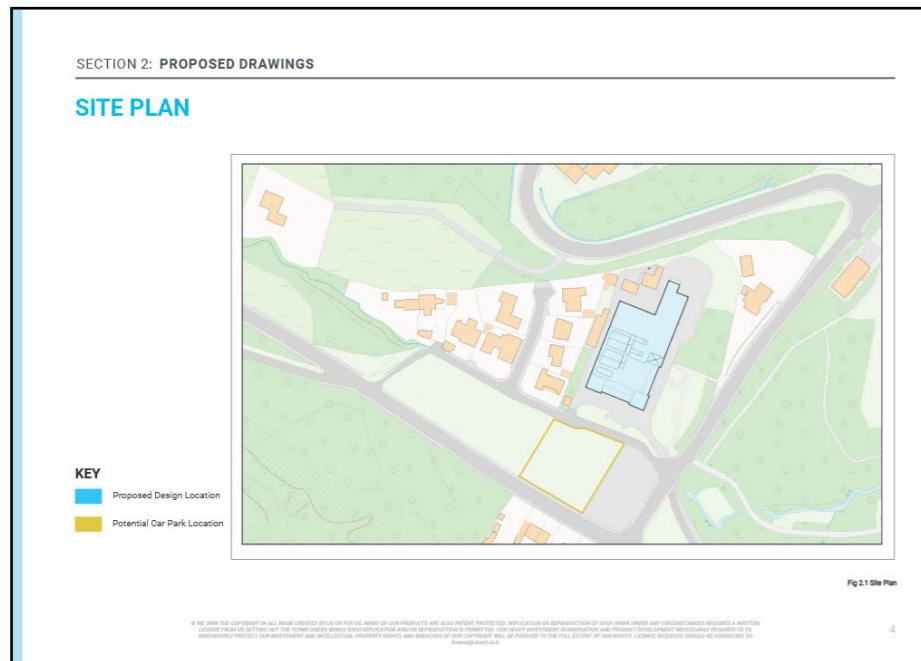
tenders stage
selected works.

proposal document pages



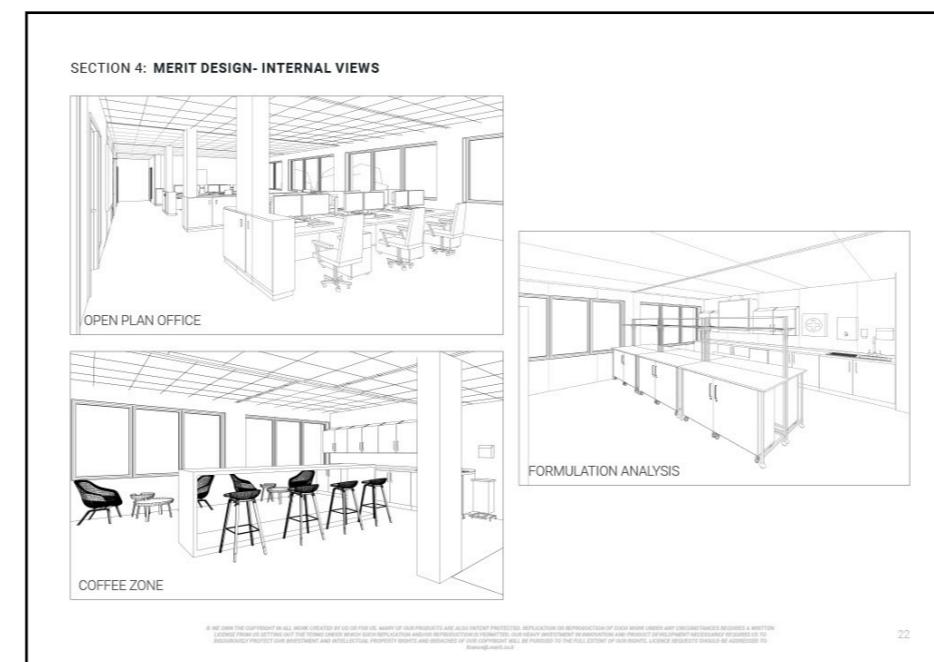
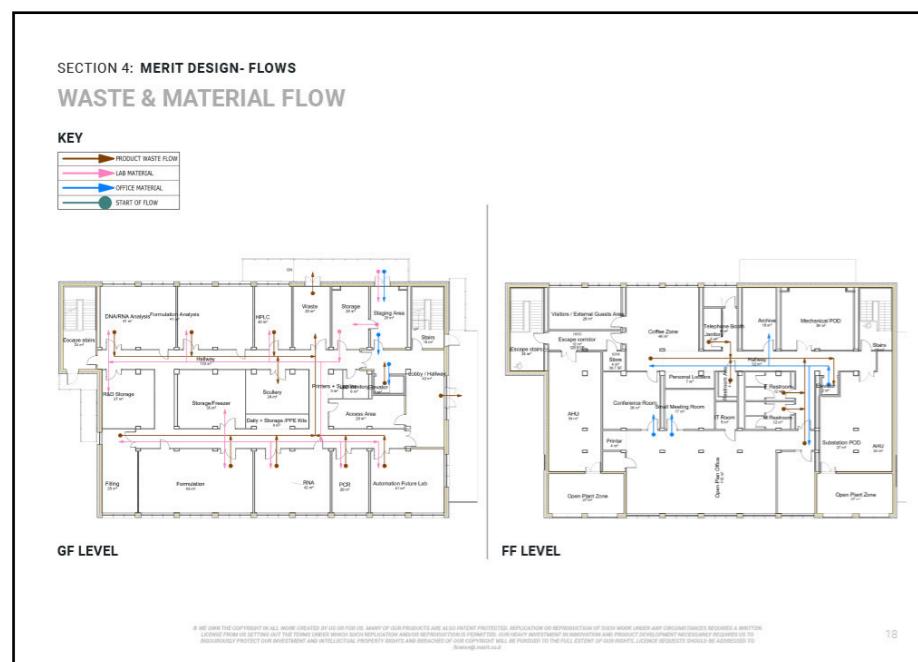
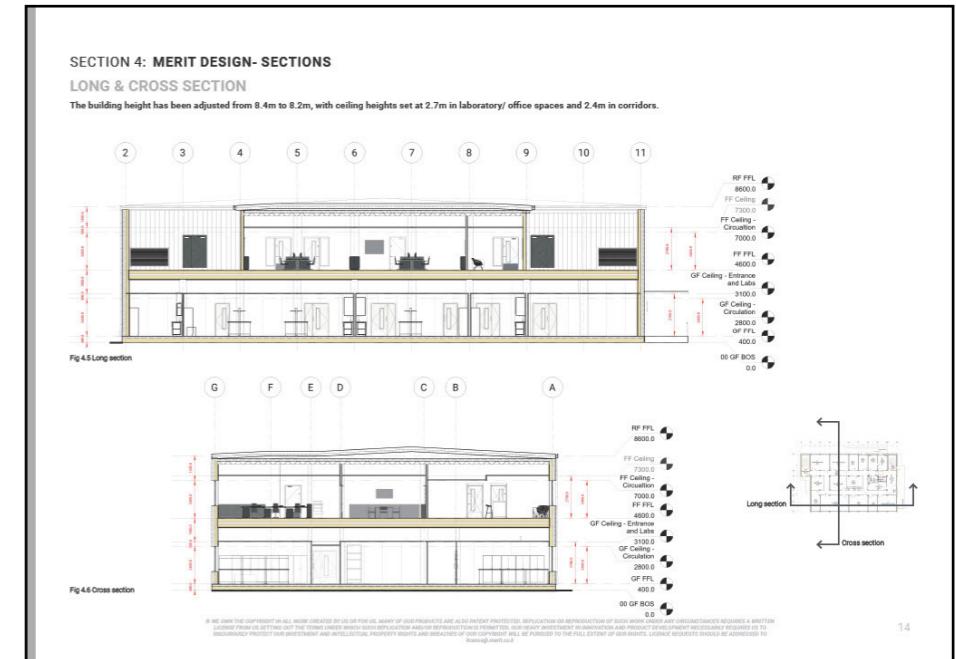
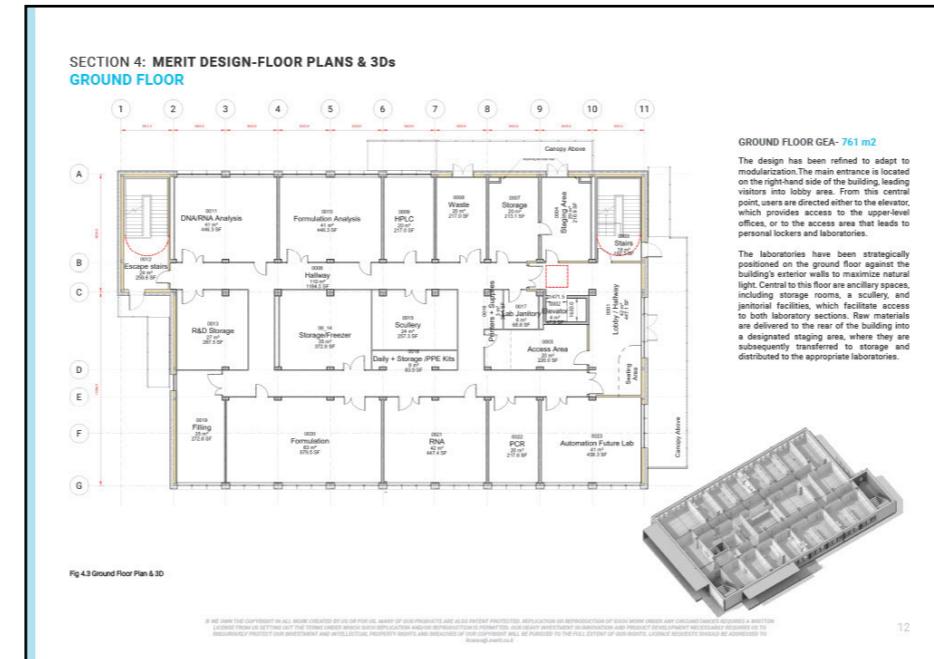
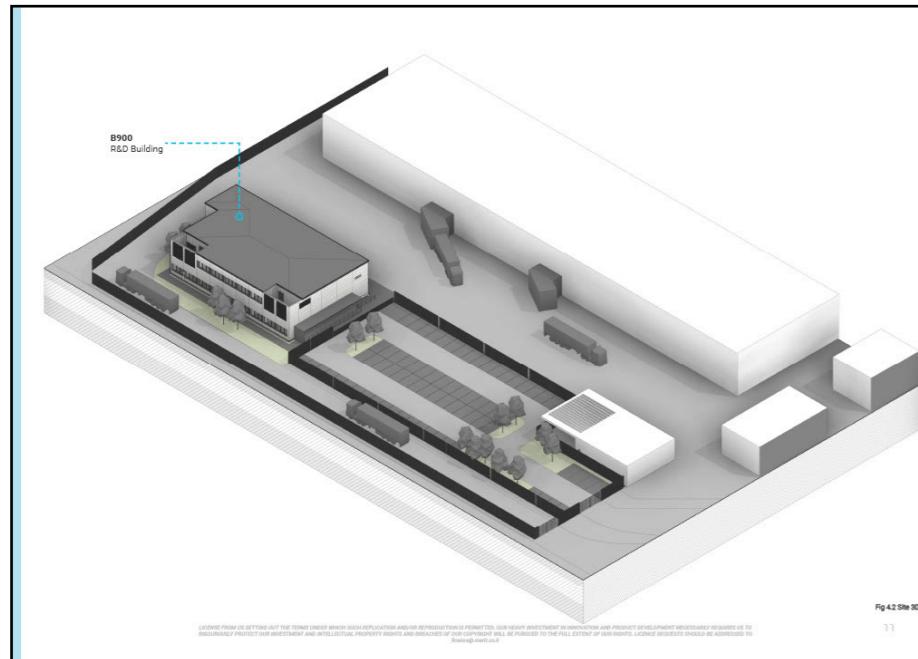
type.

Healthcare- Health and wellbeing centre plus Urgent care
Proposal document pages



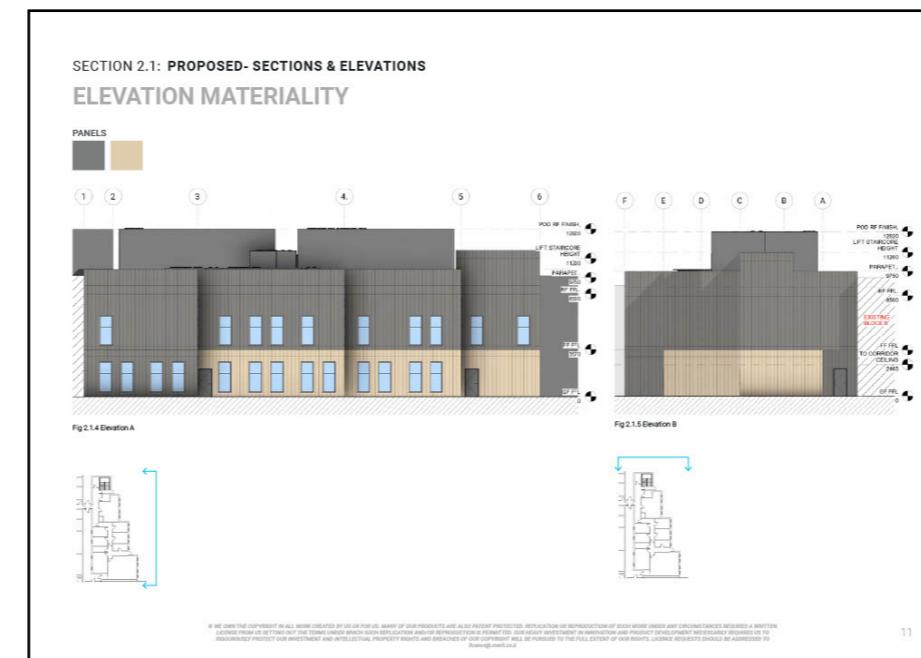
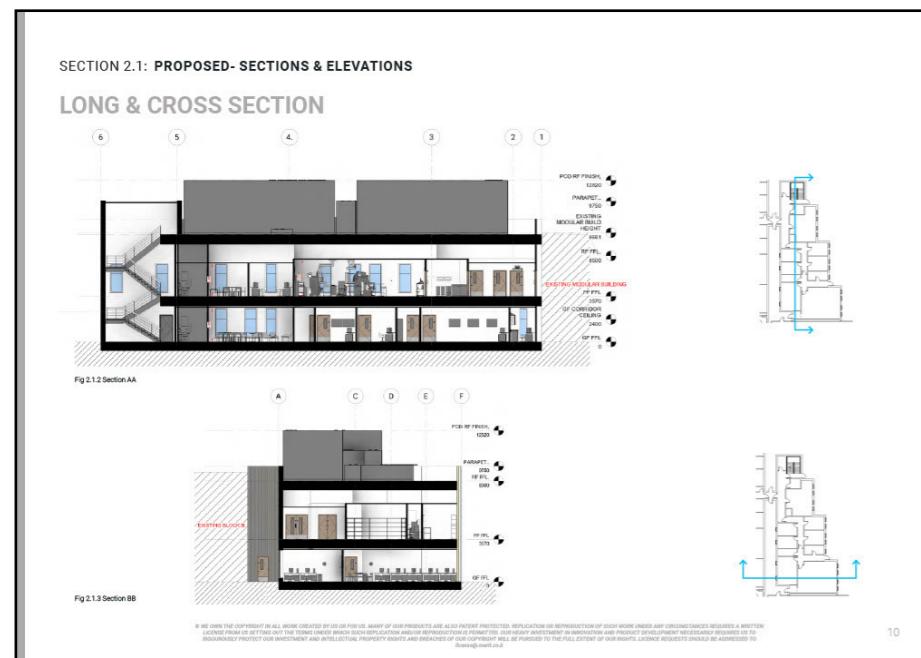
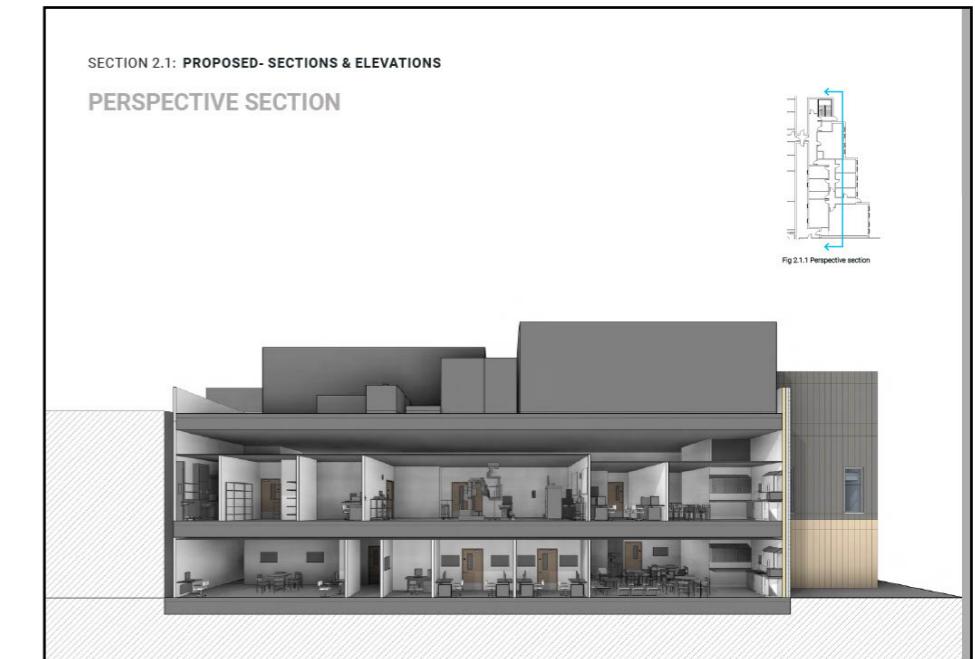
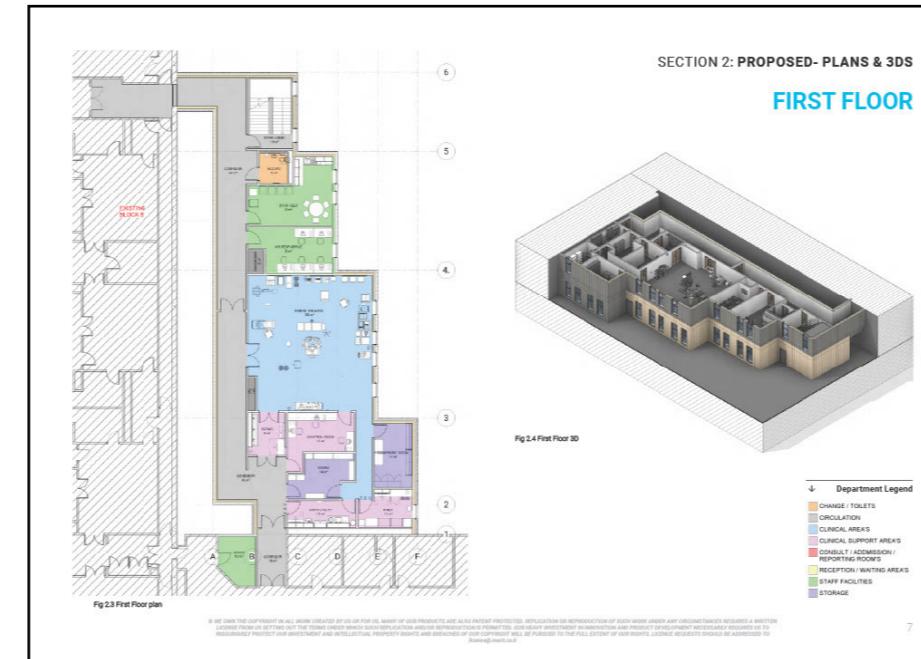
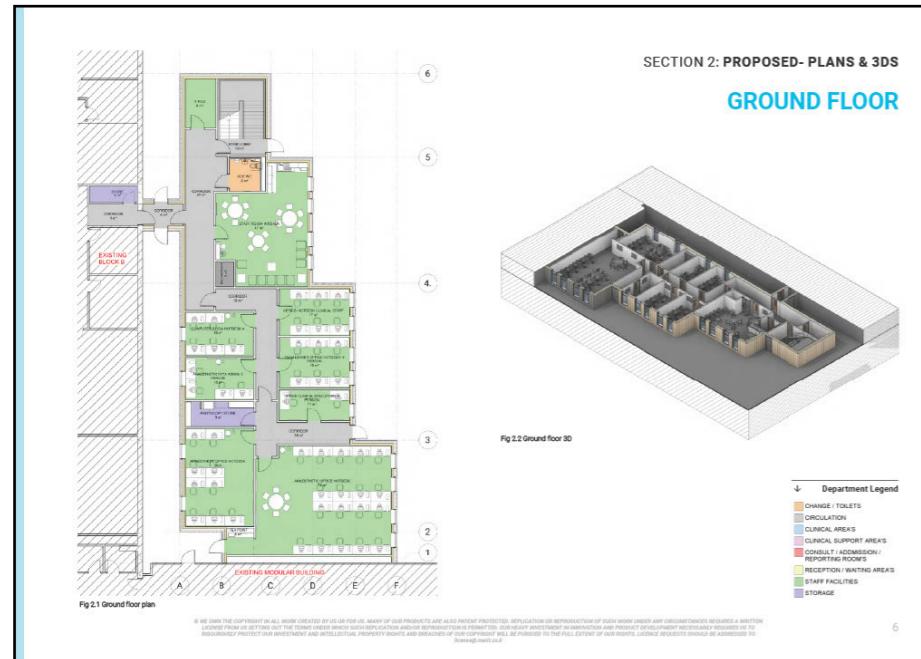
type.

Biotech- R&D Lab Proposal document pages



type.

Healthcare- Hybrid Theatre Facility Proposal document pages



Thankyou.

for your time

You can also view my design work @
www.anbdesigns.co.uk