

# European Healthcare Design 2018

## Circle Birmingham Hospital

Paul O'Neill  
Martina Cardì



# 1.0 Introduction

## Brydenwood - About us

Structural  
+ Civil  
Engineering

Design  
for Asset  
Optimisation

Operations  
Consulting

Architecture  
+ Integrated  
Design

Design for  
Manufacture  
+ Offsite

BIM +  
Big Data

Mechanical  
+ Electrical  
Engineering

Process  
Facility Design

Systemisation

# Bryden Wood



# 1.0 Introduction

## Brydenwood - DFMA

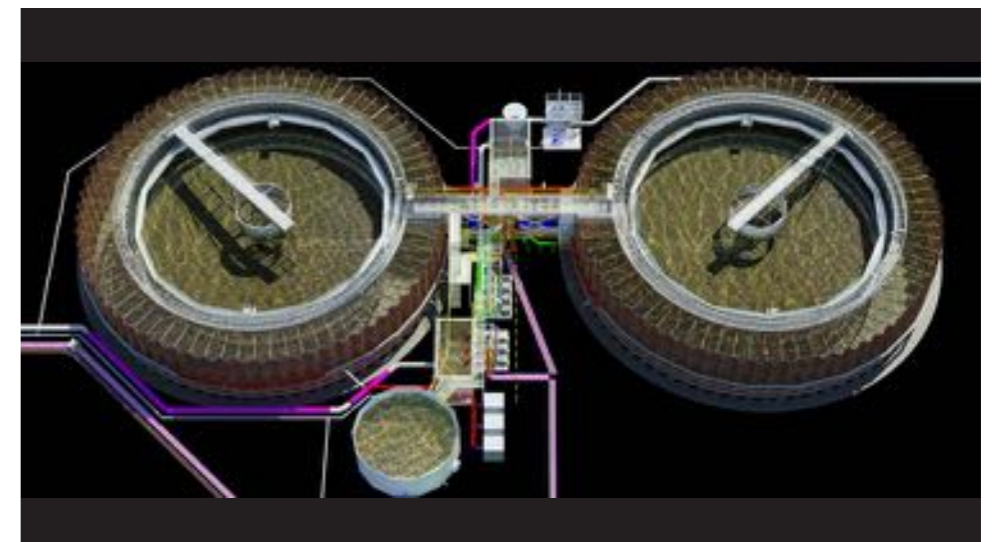
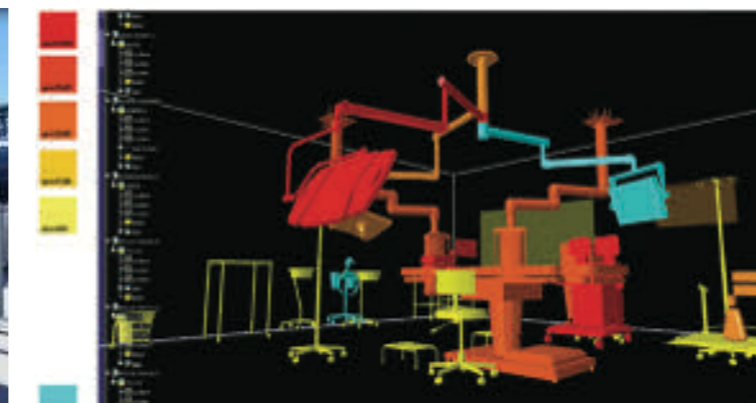
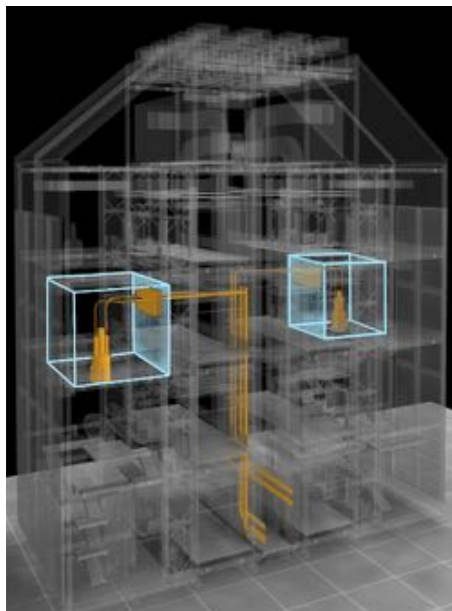
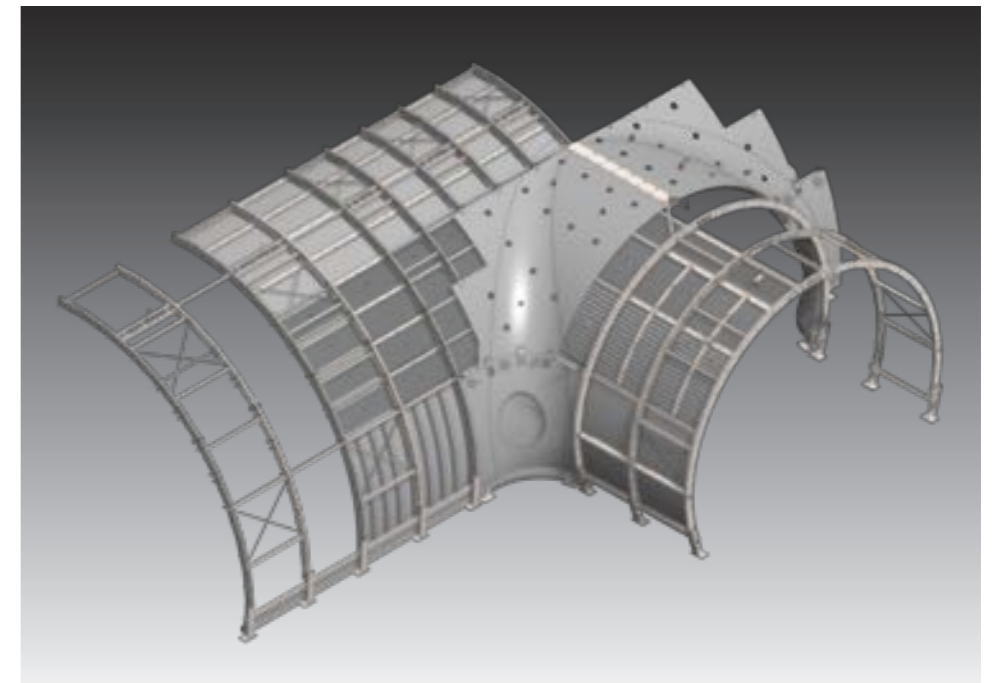
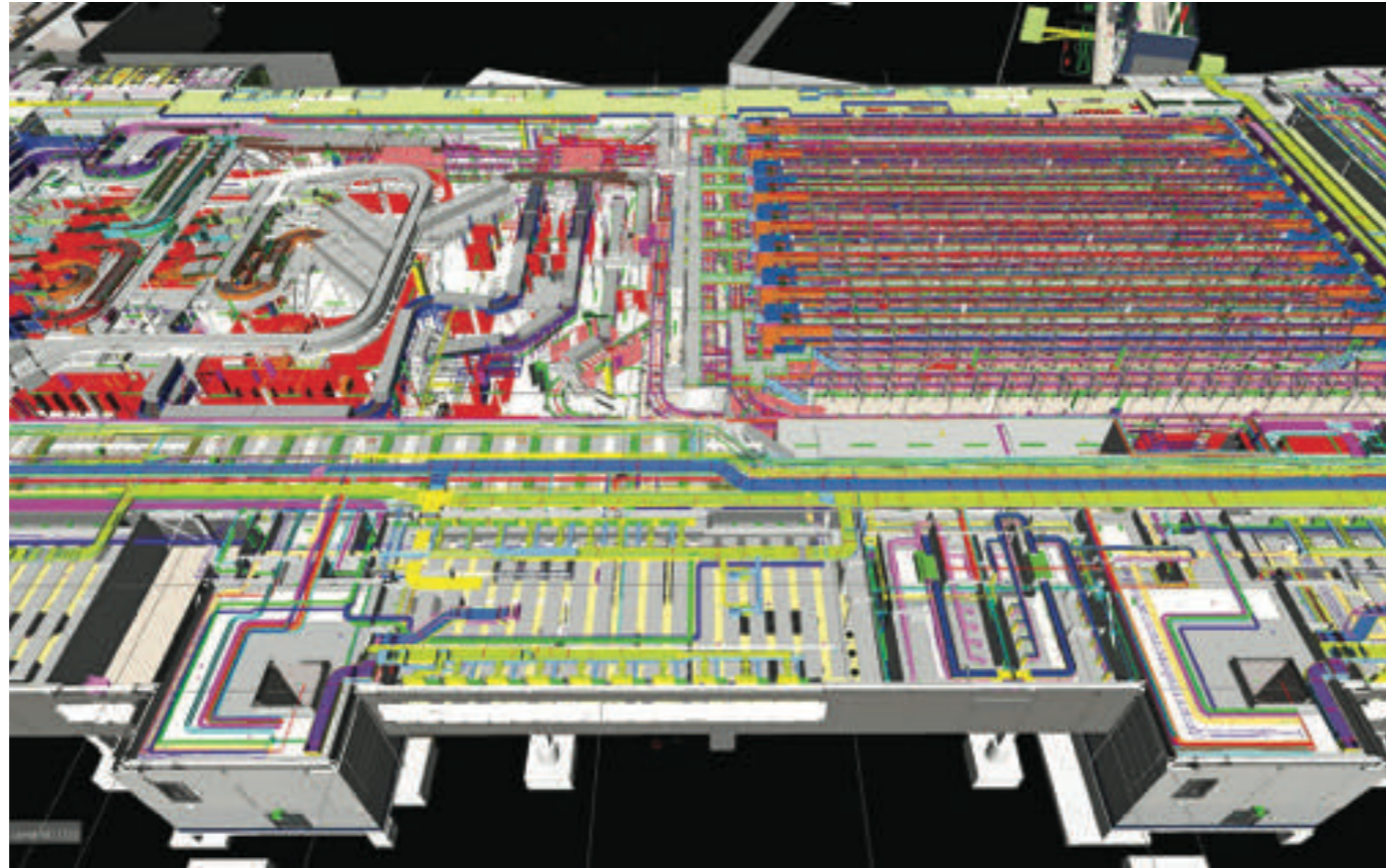
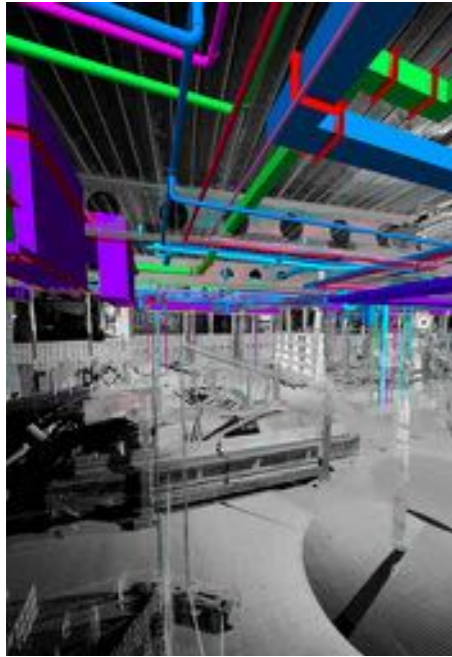
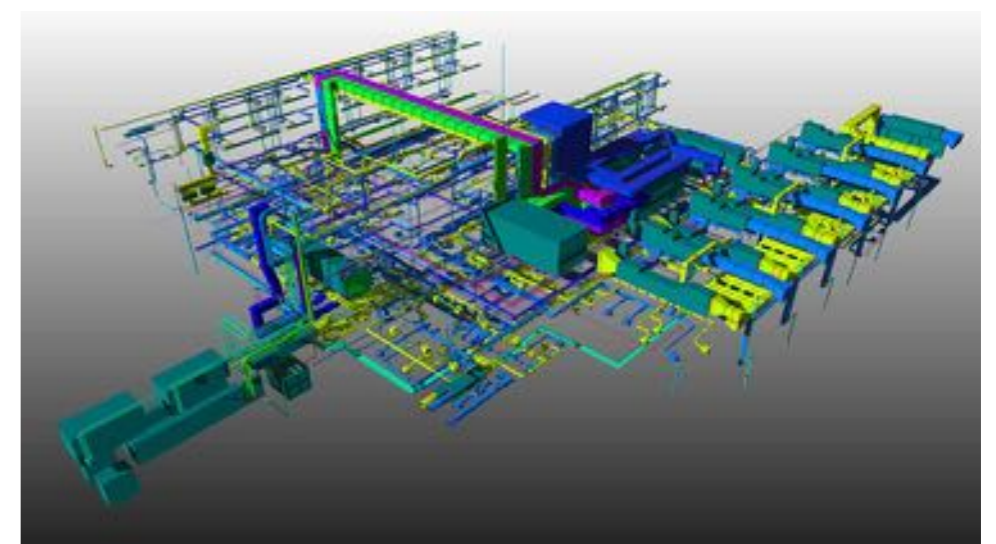
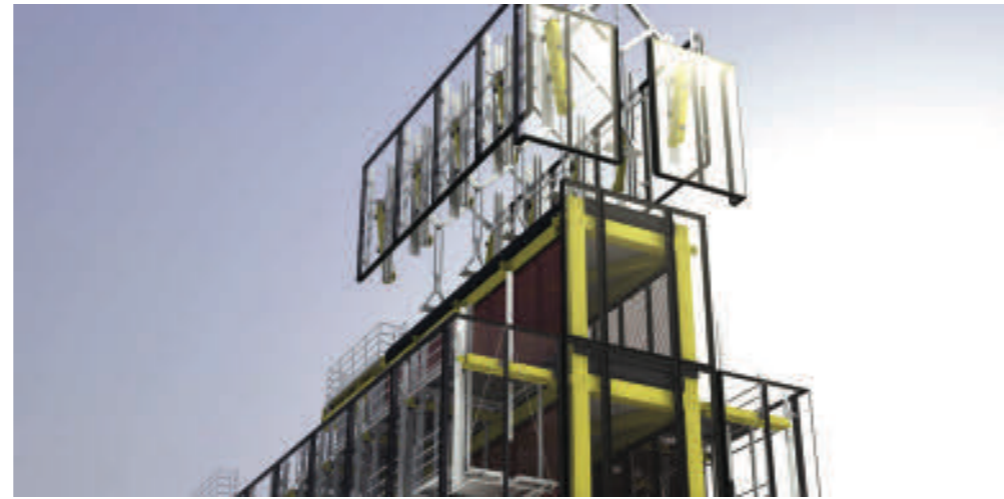




# 1.0 Introduction

## Brydenwood - BIM

Join us on Stand 15  
for a VR walk through of  
Circle Birmingham Hospital

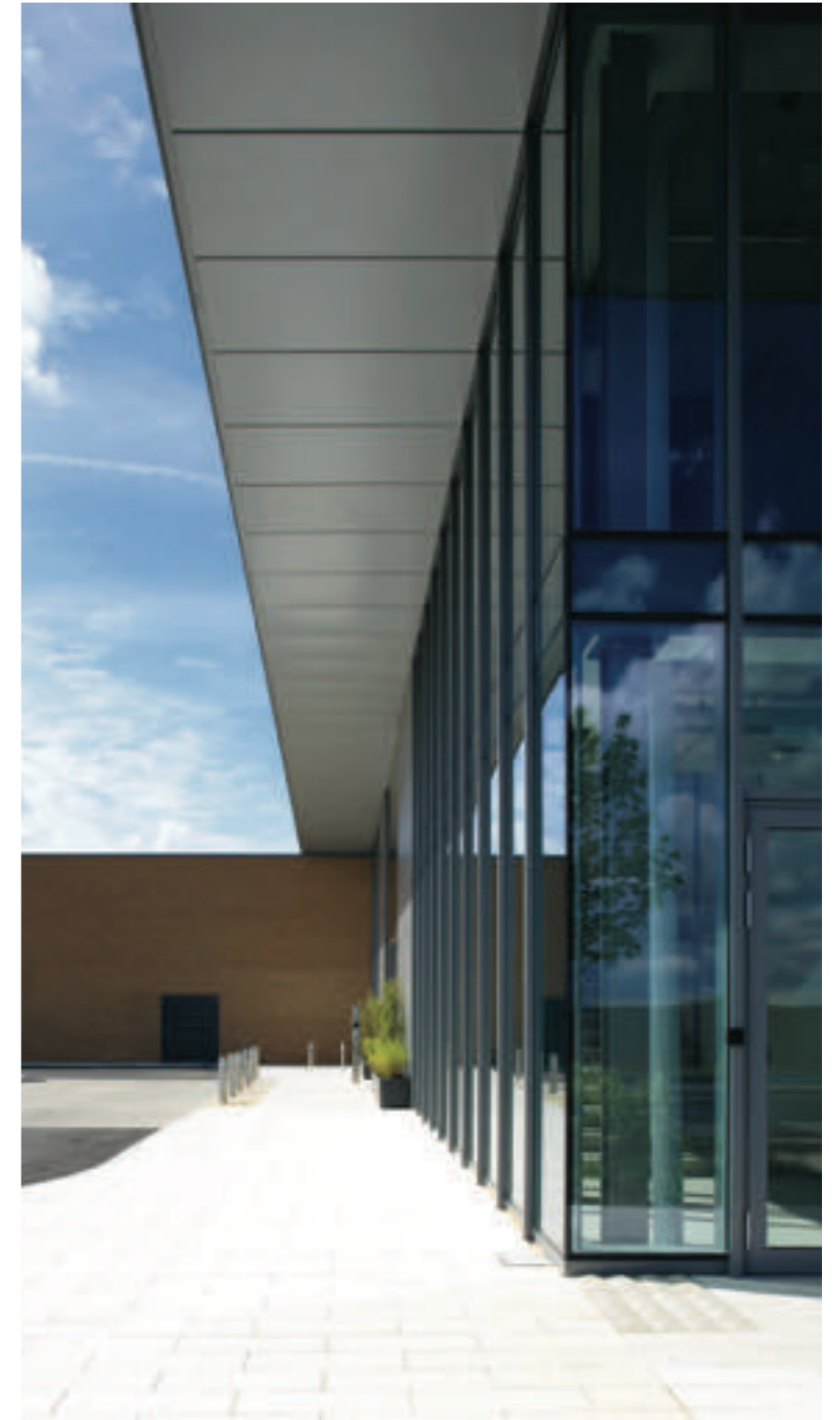




## 1.0 Introduction

### Brydenwood - Circle Reading

Awarded 'Best patient experience' at Building Better Healthcare Awards





# 1.0 Introduction

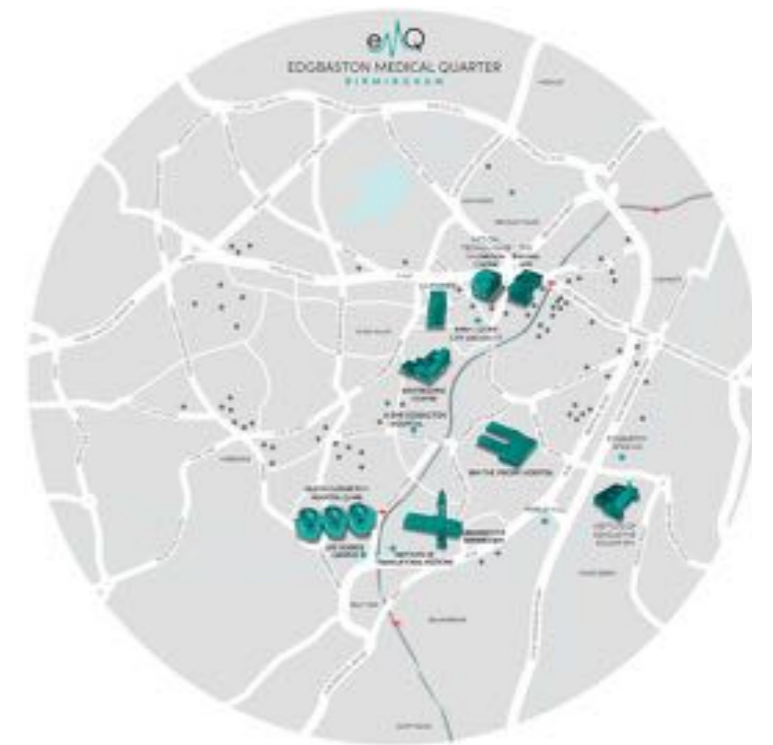
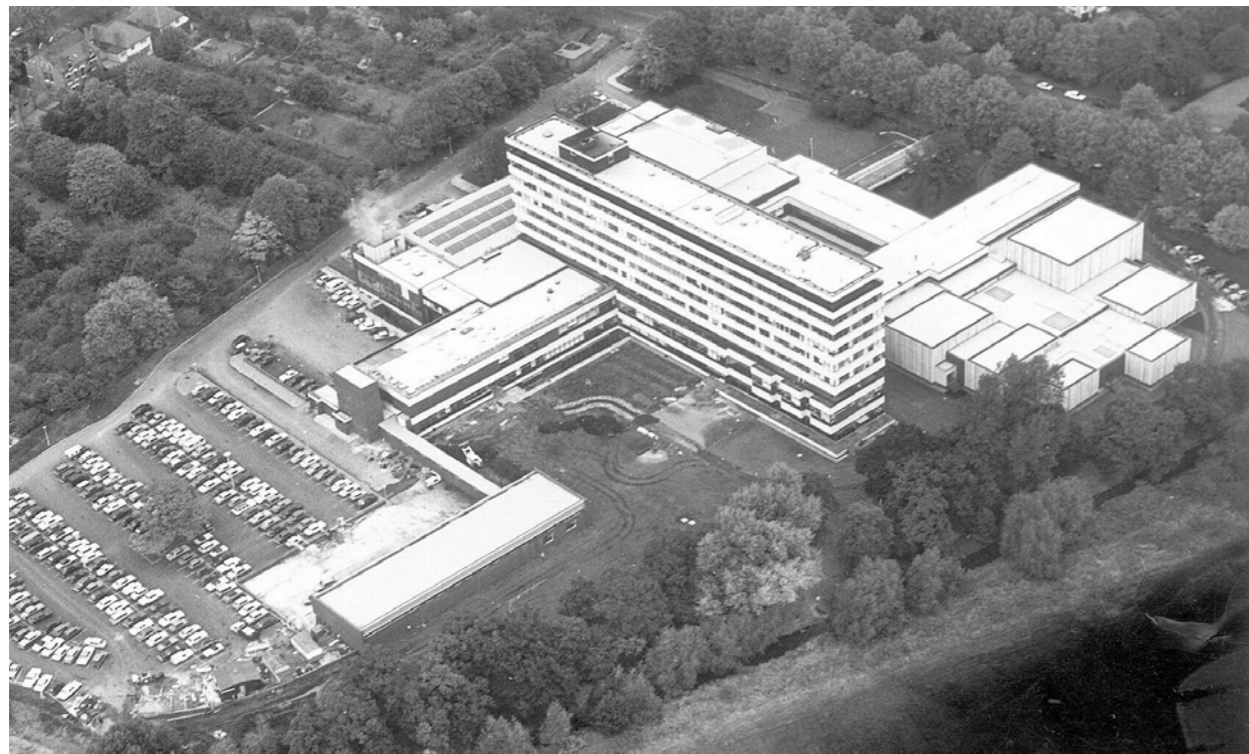
## Brydenwood - Circle Reading

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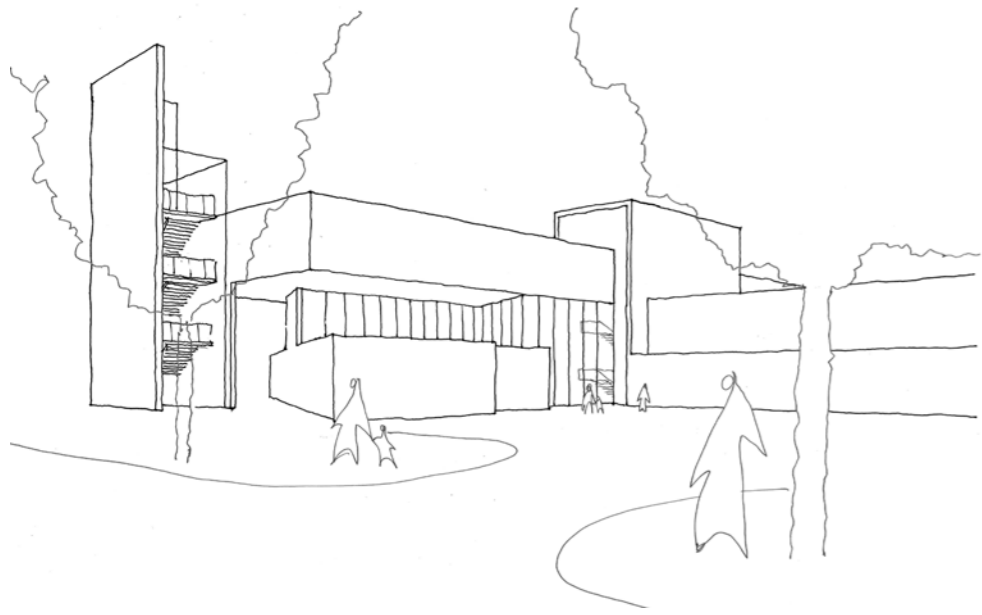


## 2.0 Site context – Edgbaston Medical Quarter and Pebble Mill



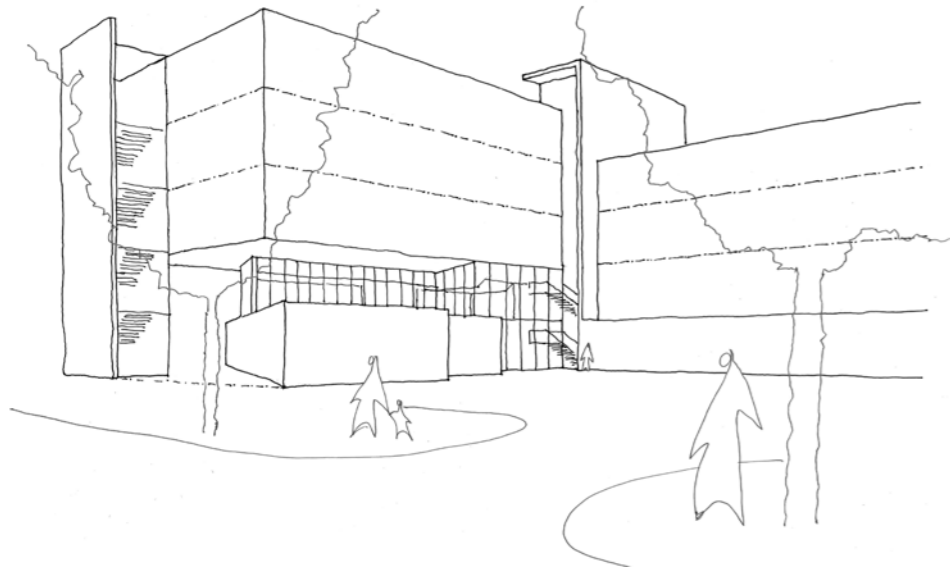


### 3.0 Hospital Flexibility / Adaptability – Phase 1 and Completed Hospital





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## 4.0 Scheme description - efficiency of single level clinical department





## 4.0 Scheme description - efficiency of single level clinical department

### Ground Floor Level

■ Consulting   ■ Atrium   ■ Catering   ■ Imaging   ■ Theatres   ■ Recovery   ■ Facility management

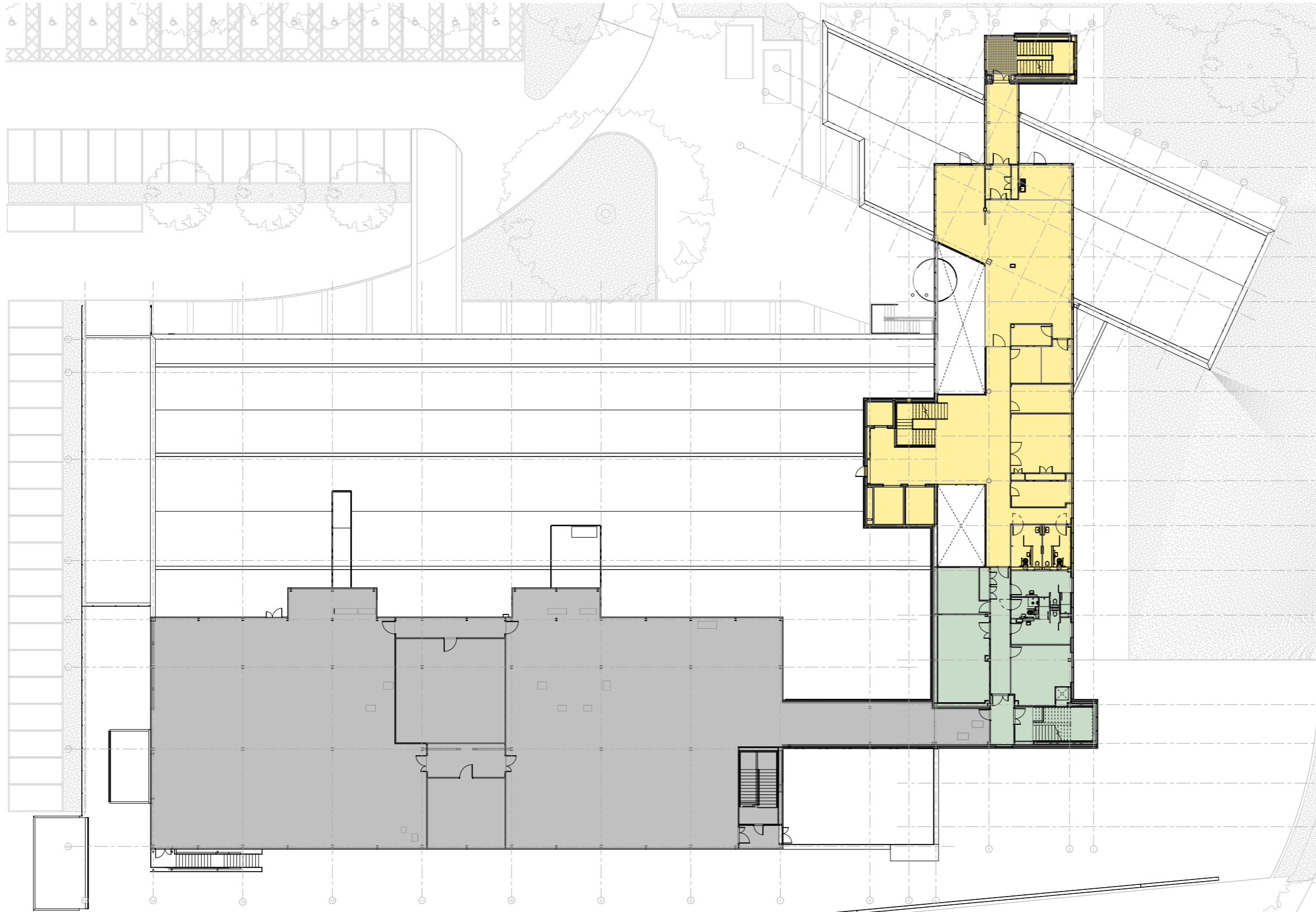




## 4.0 Scheme description - efficiency of single level clinical department

### First Floor Level

■ Administration   ■ Staff   ■ Plant room

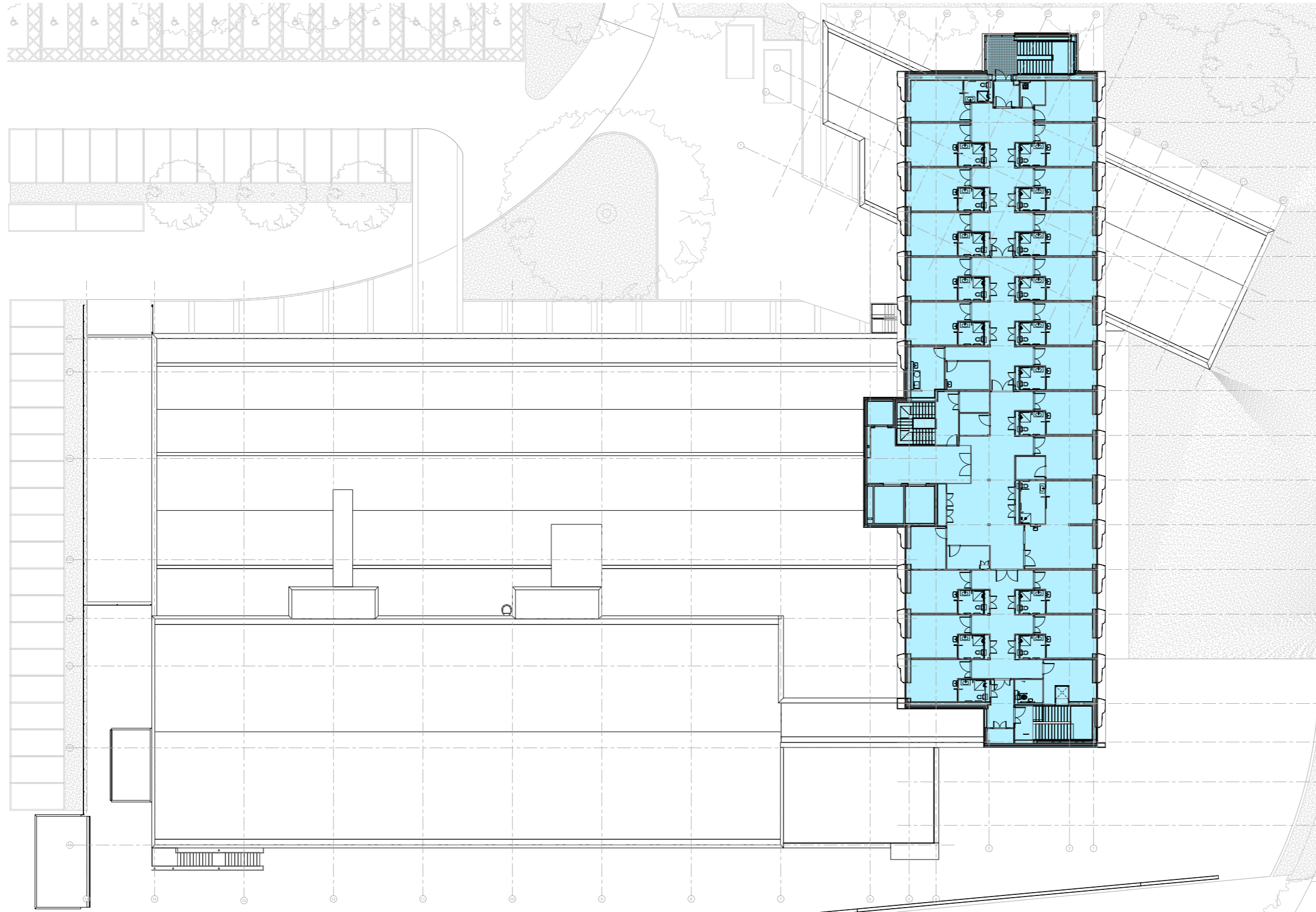




## 4.0 Scheme description - efficiency of single level clinical department

### Second Floor Level

■ Inpatients

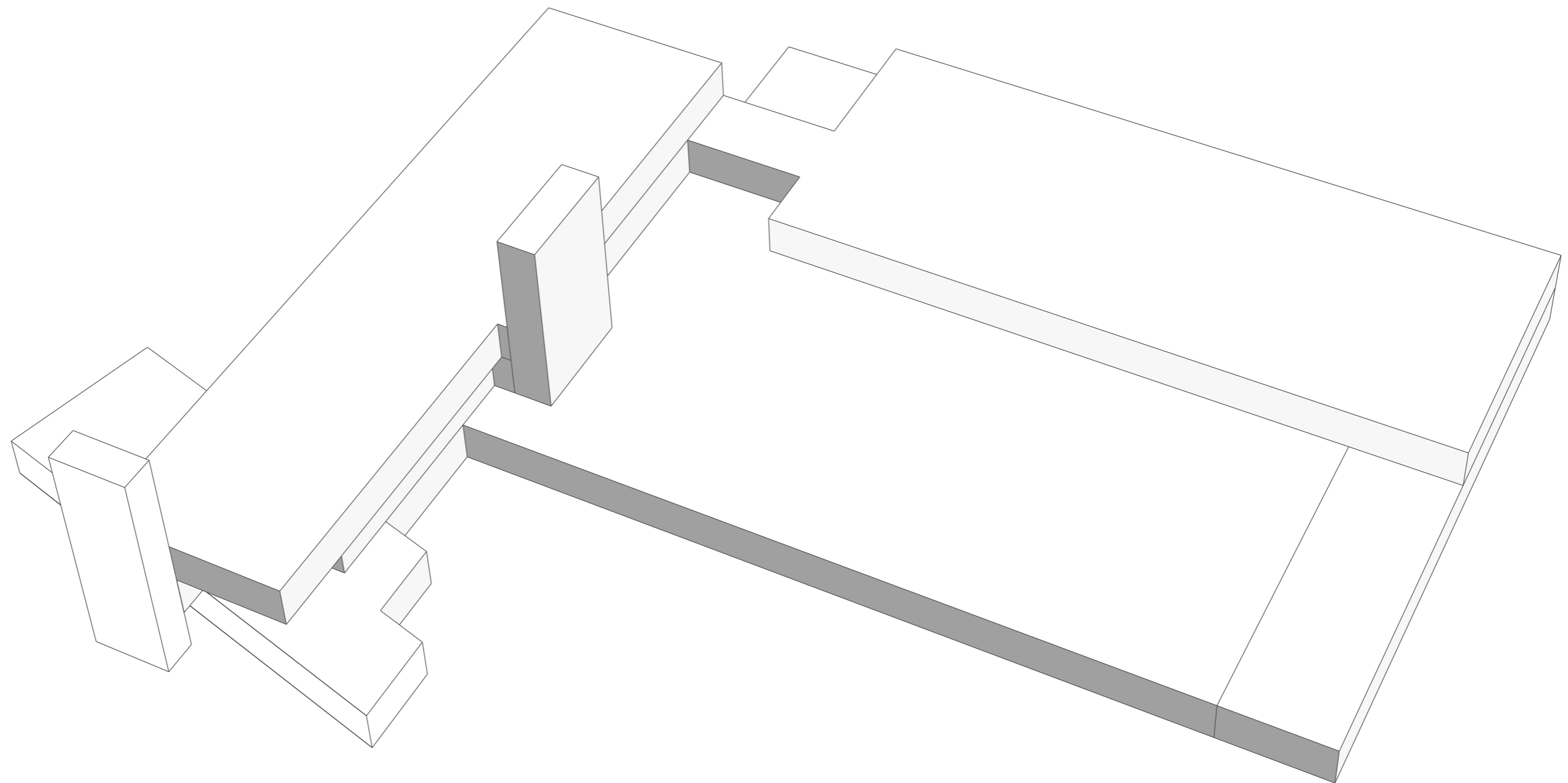




## 5.0 The future proofing strategy

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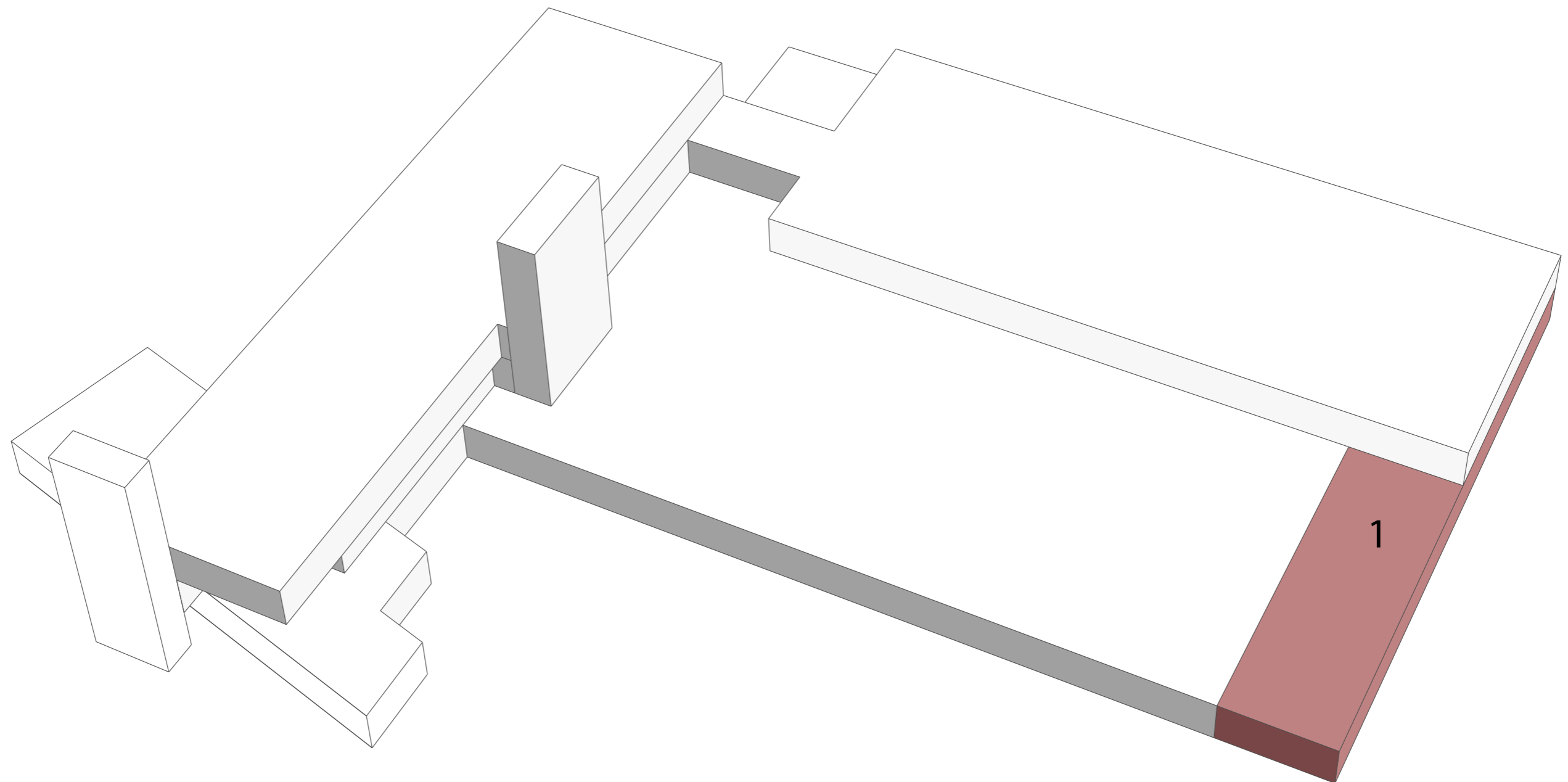
As is currently stands





## 5.0 The future proofing strategy

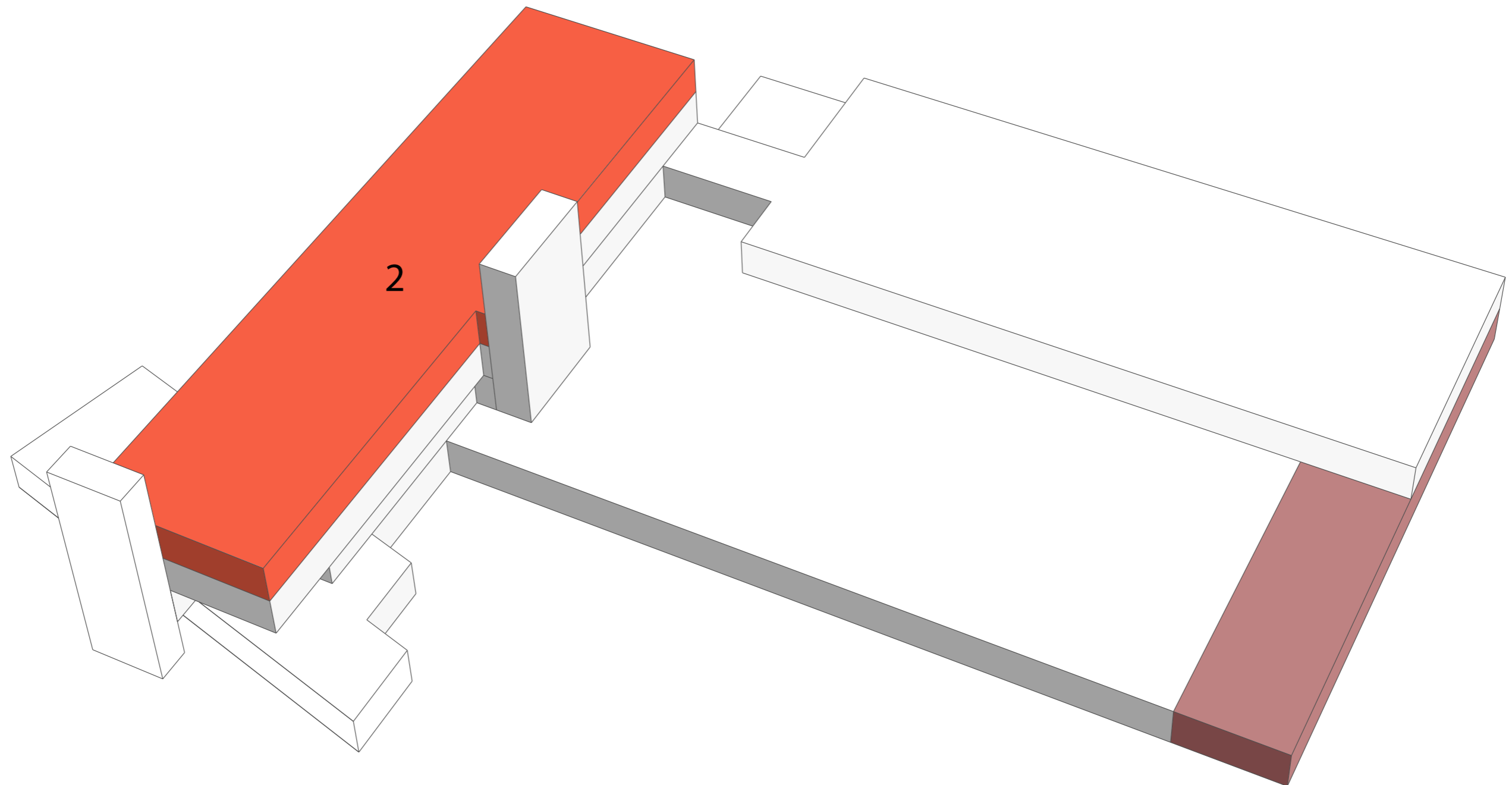
1. Clinical wing Ground Floor (Internal expansion) – fit-out of fourth and fifth theatres, addition of 10 recovery bays and FM spaces.





## 5.0 The future proofing strategy

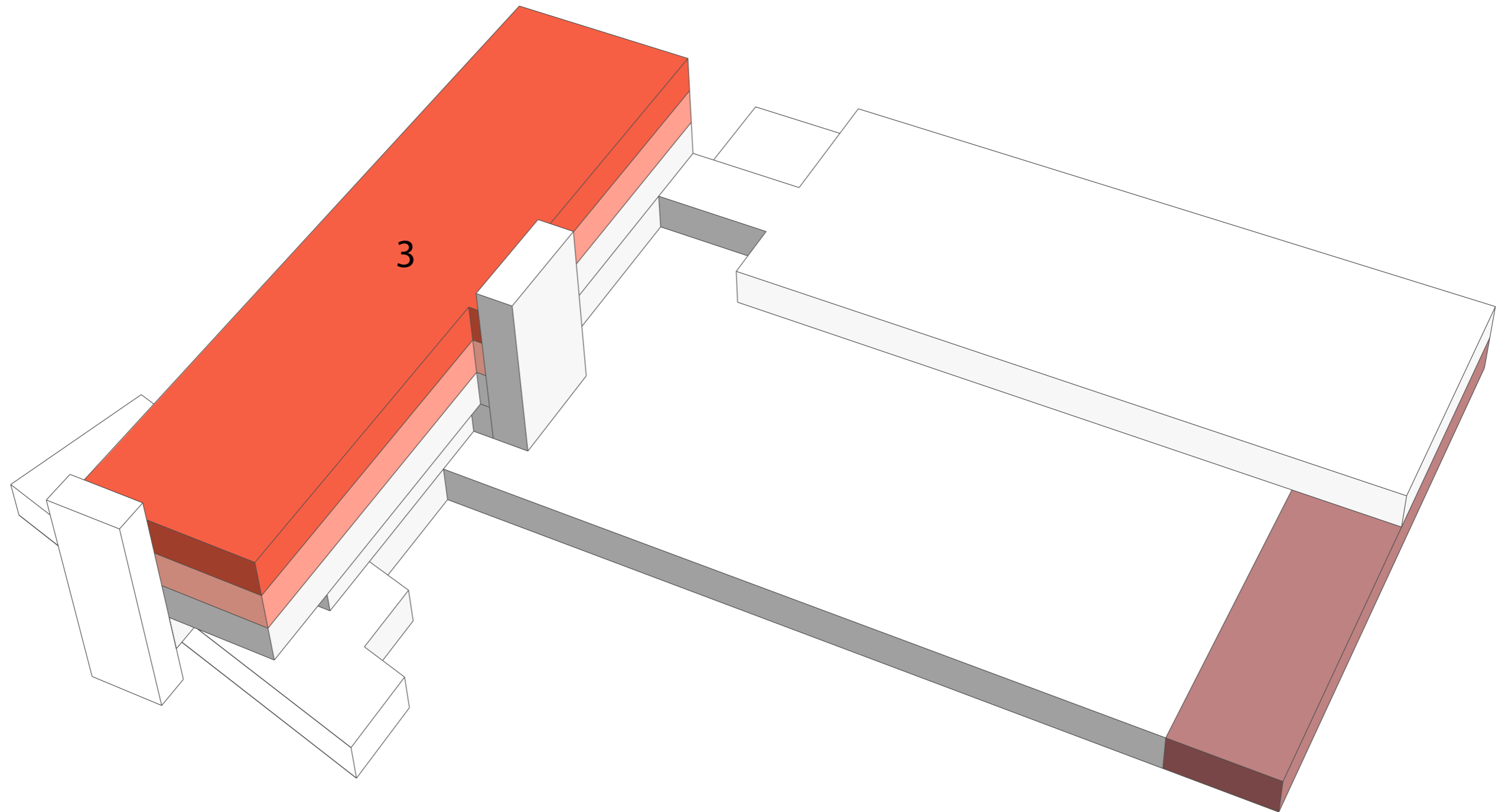
2. Hospitality wing 3rd Floor – addition of one bedroom floor - this will include 19 bedrooms or 20 if the RMO room is not to be repeated at all floors.





## 5.0 The future proofing strategy

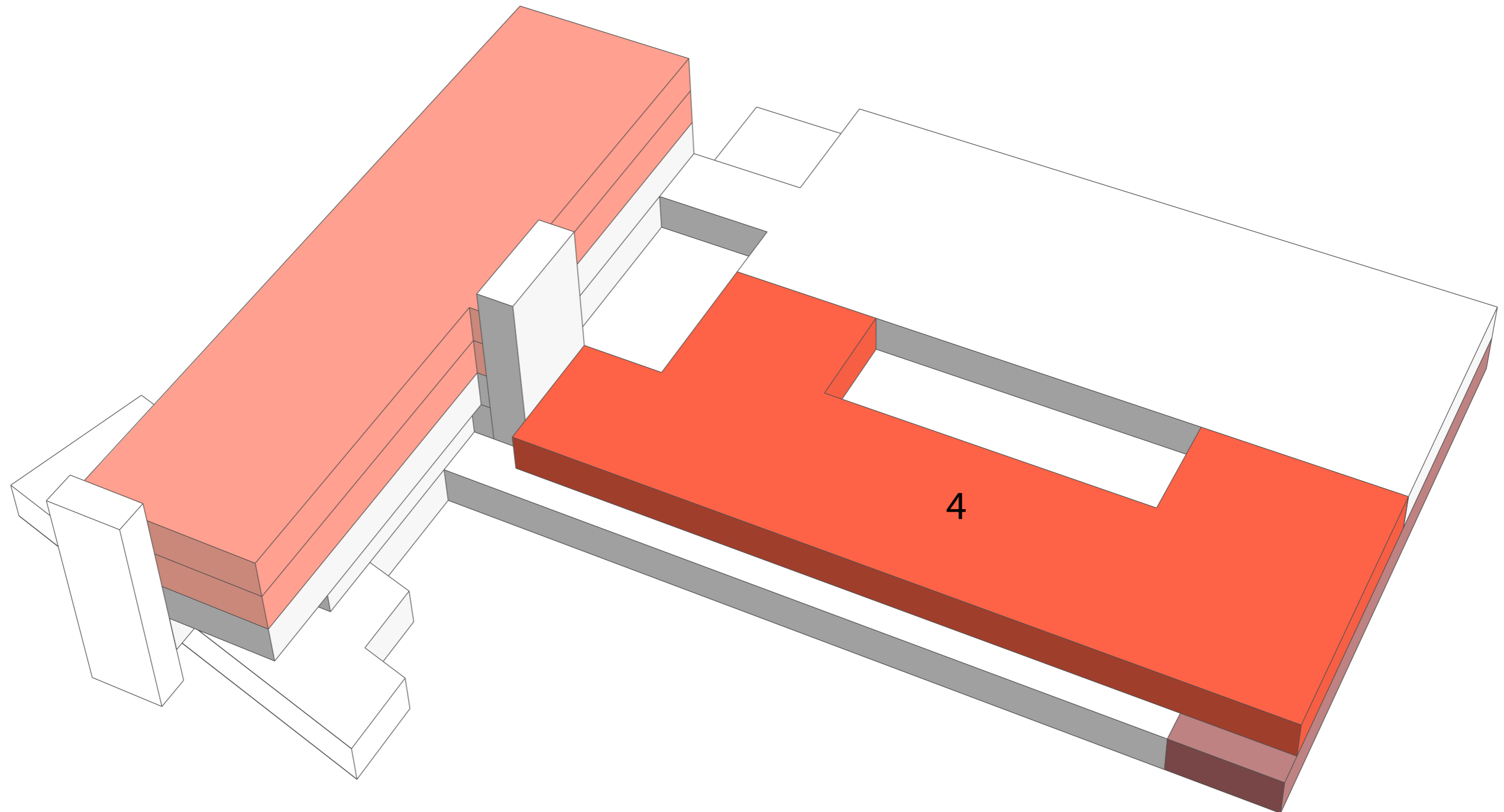
3. Hospitality wing 4th Floor– addition of another bedroom floor – this will include 19 bedrooms or





## 5.0 The future proofing strategy

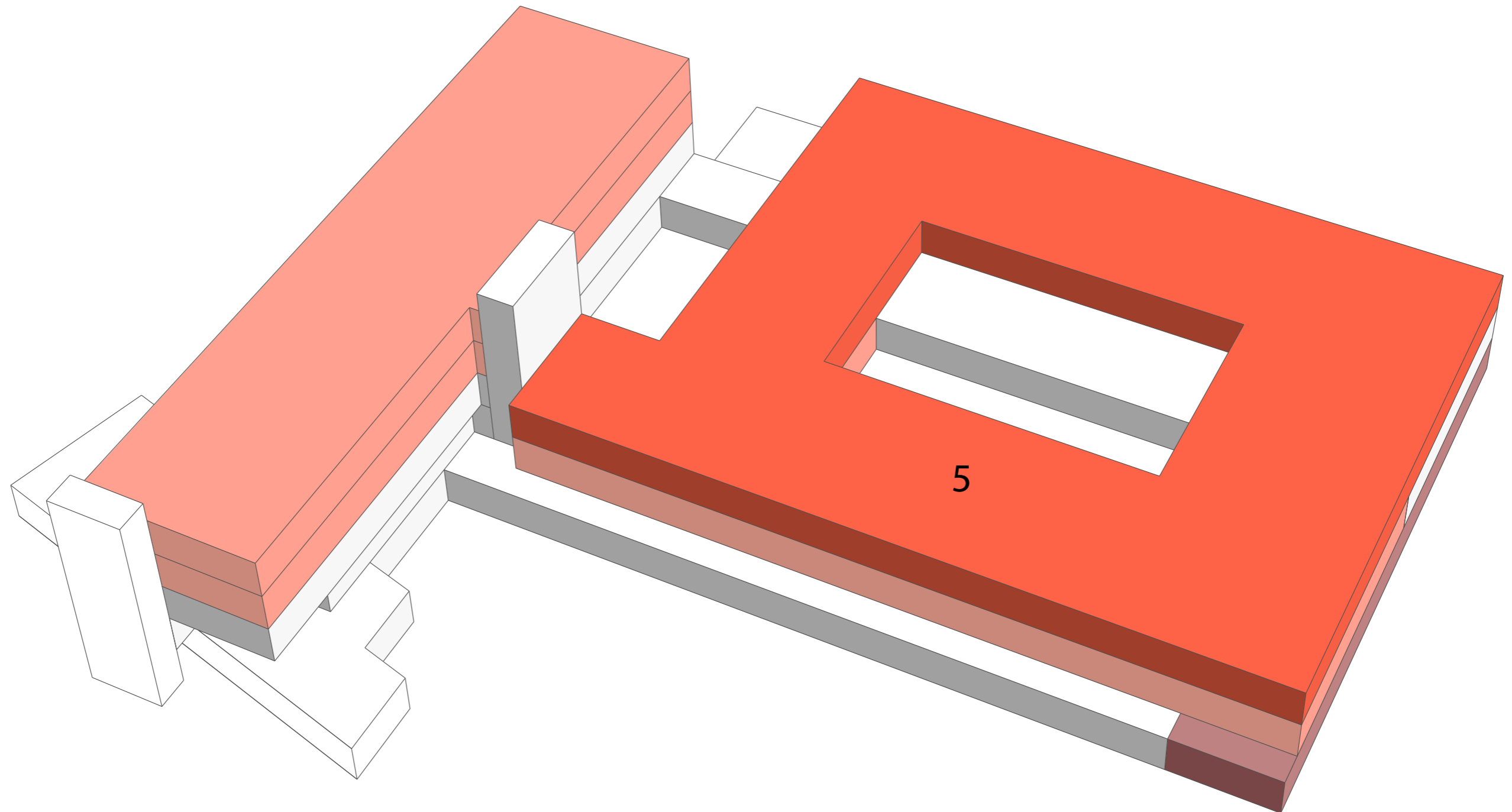
4. Clinical wing 1st floor – Addition of Physiotherapy department – 4 treatment rooms, one





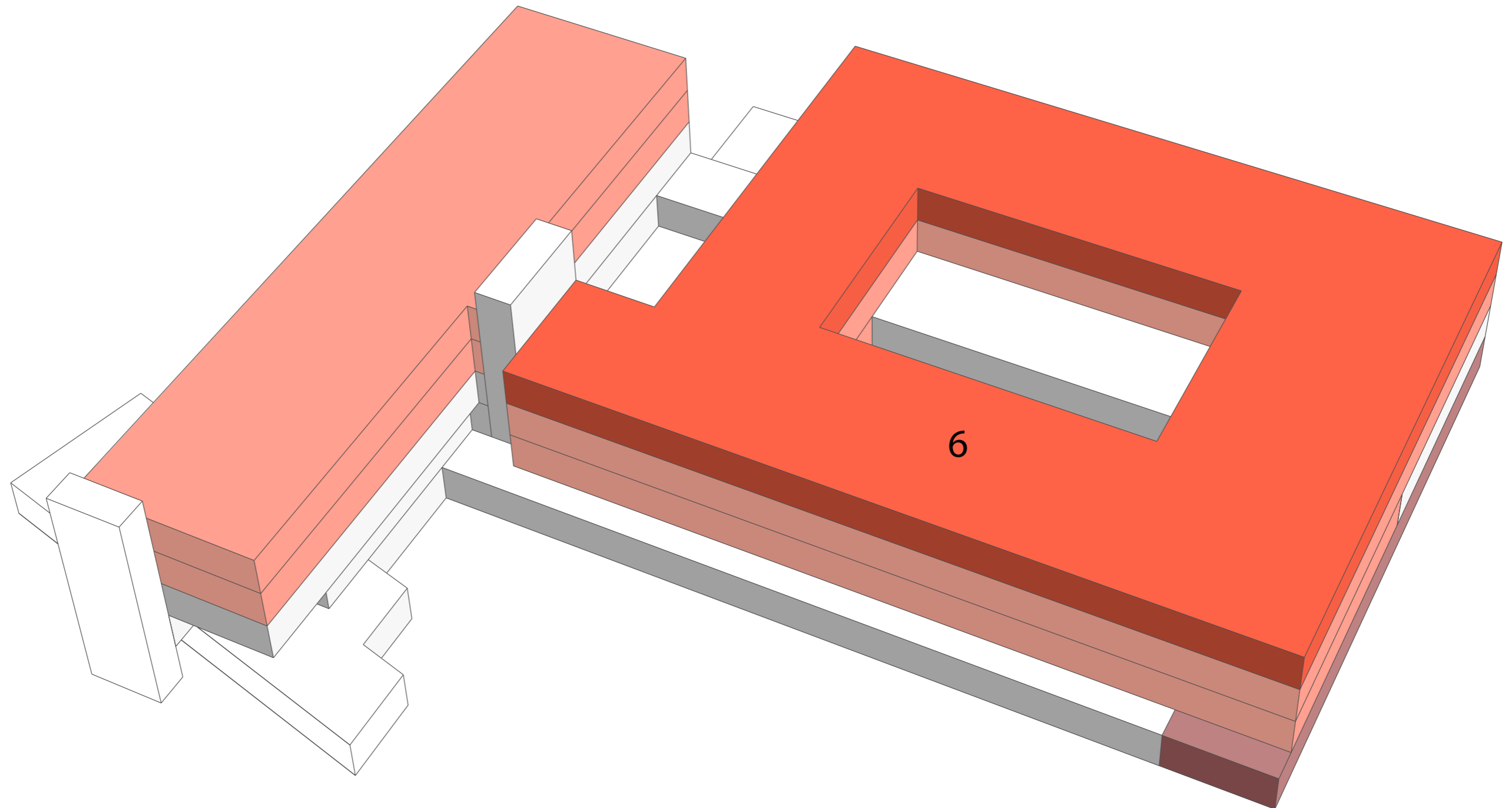
## 5.0 The future proofing strategy

5. Clinical wing 2nd Floor – Addition of one bedroom floor – this will include up to 40



## 5.0 The future proofing strategy

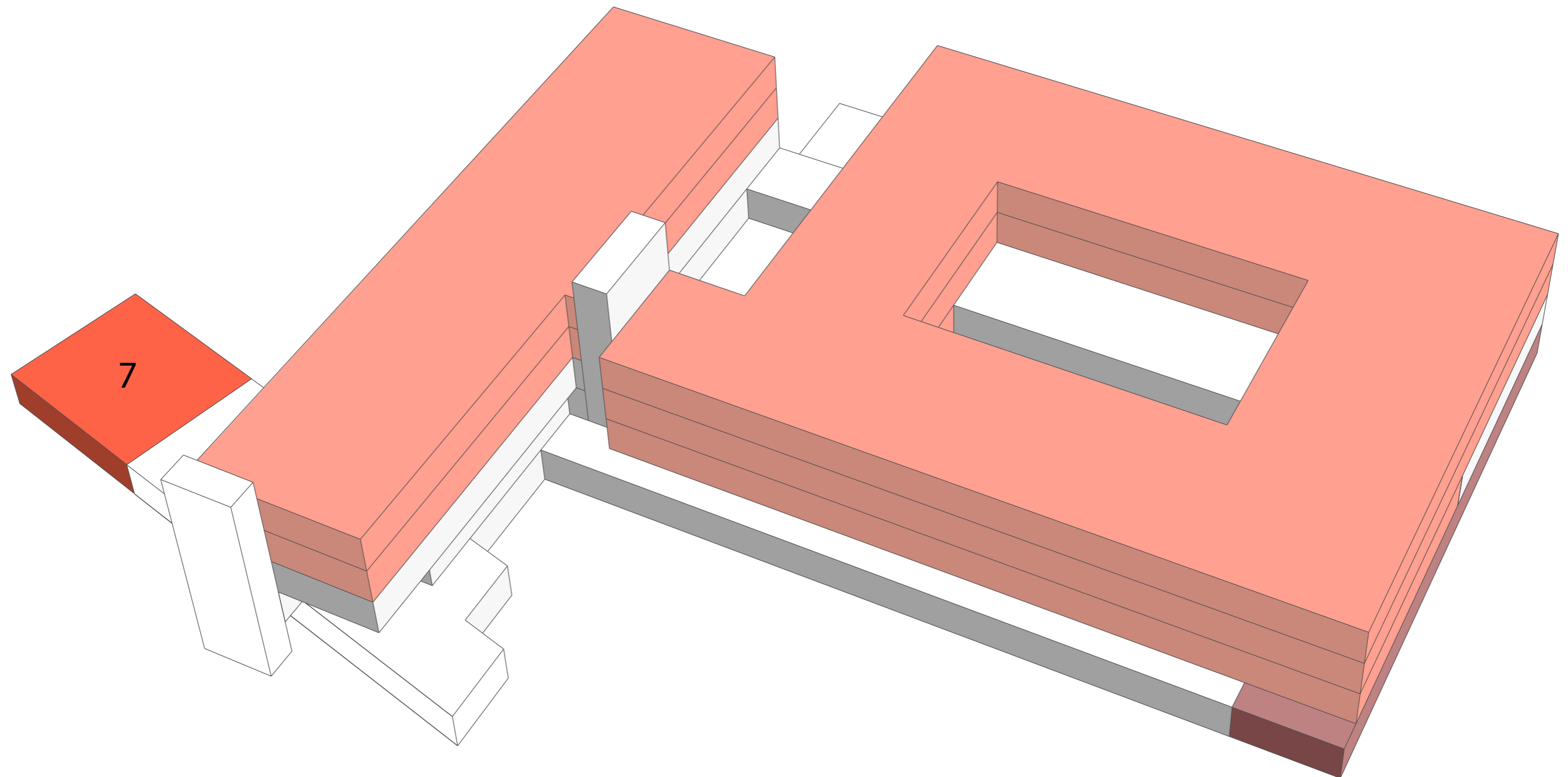
6. Clinical wing 3rd floor - Addition of one bedroom floor – this will include up to 40





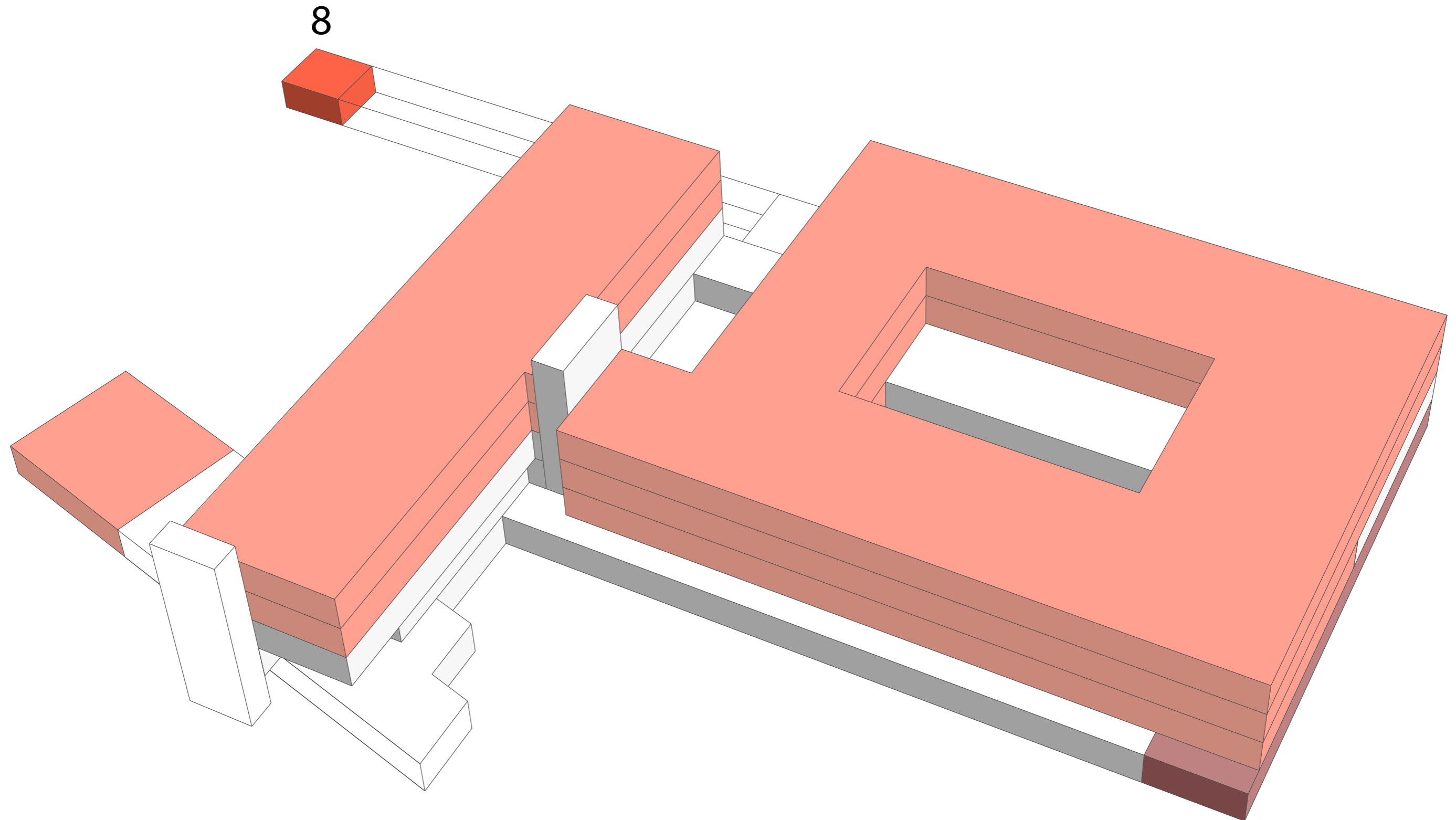
## 5.0 The future proofing strategy

### 7. Consulting room block – addition of 9 consulting rooms



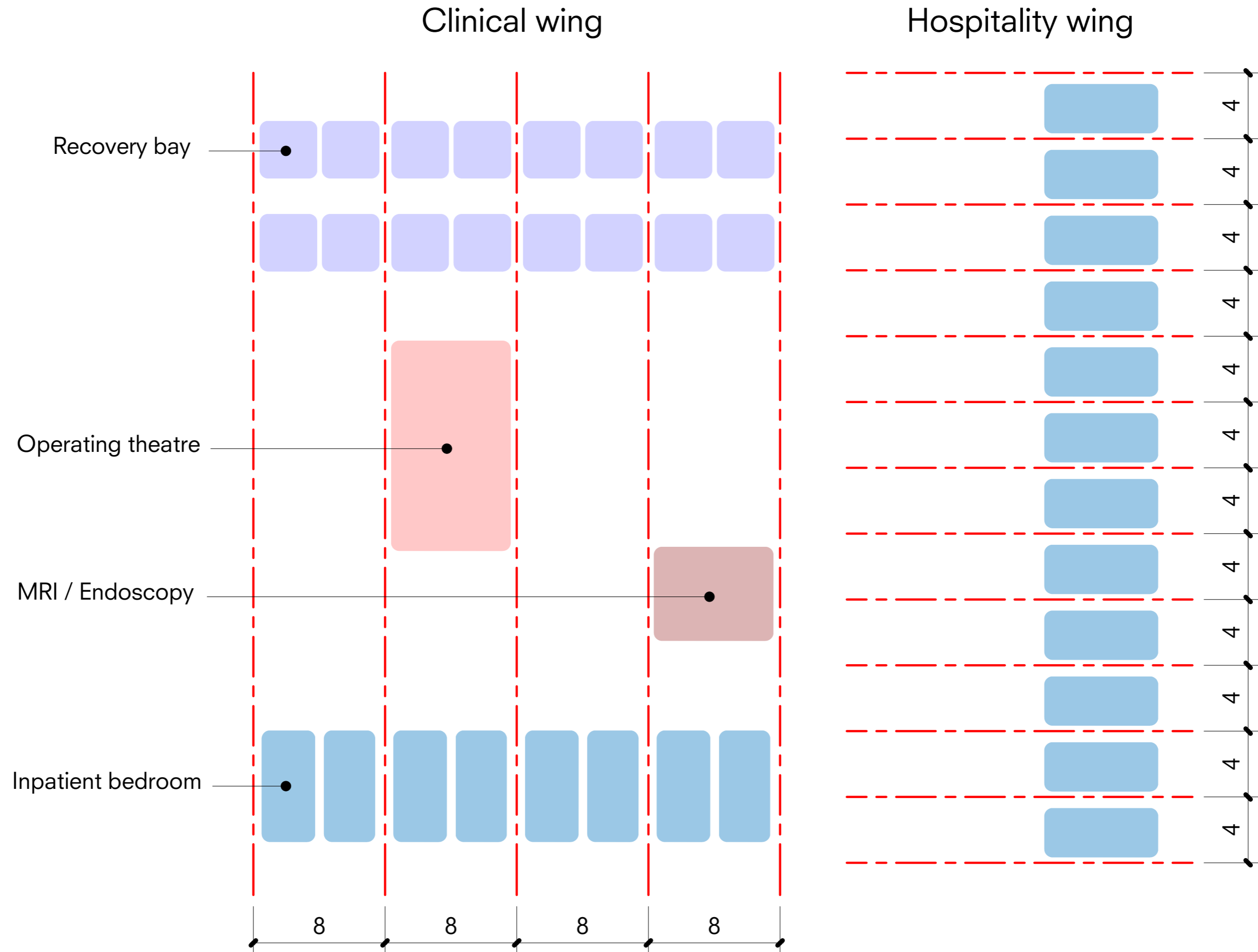
## 5.0 The future proofing strategy

### 8. Imaging department – addition of one permanent CT room and expansion of existing

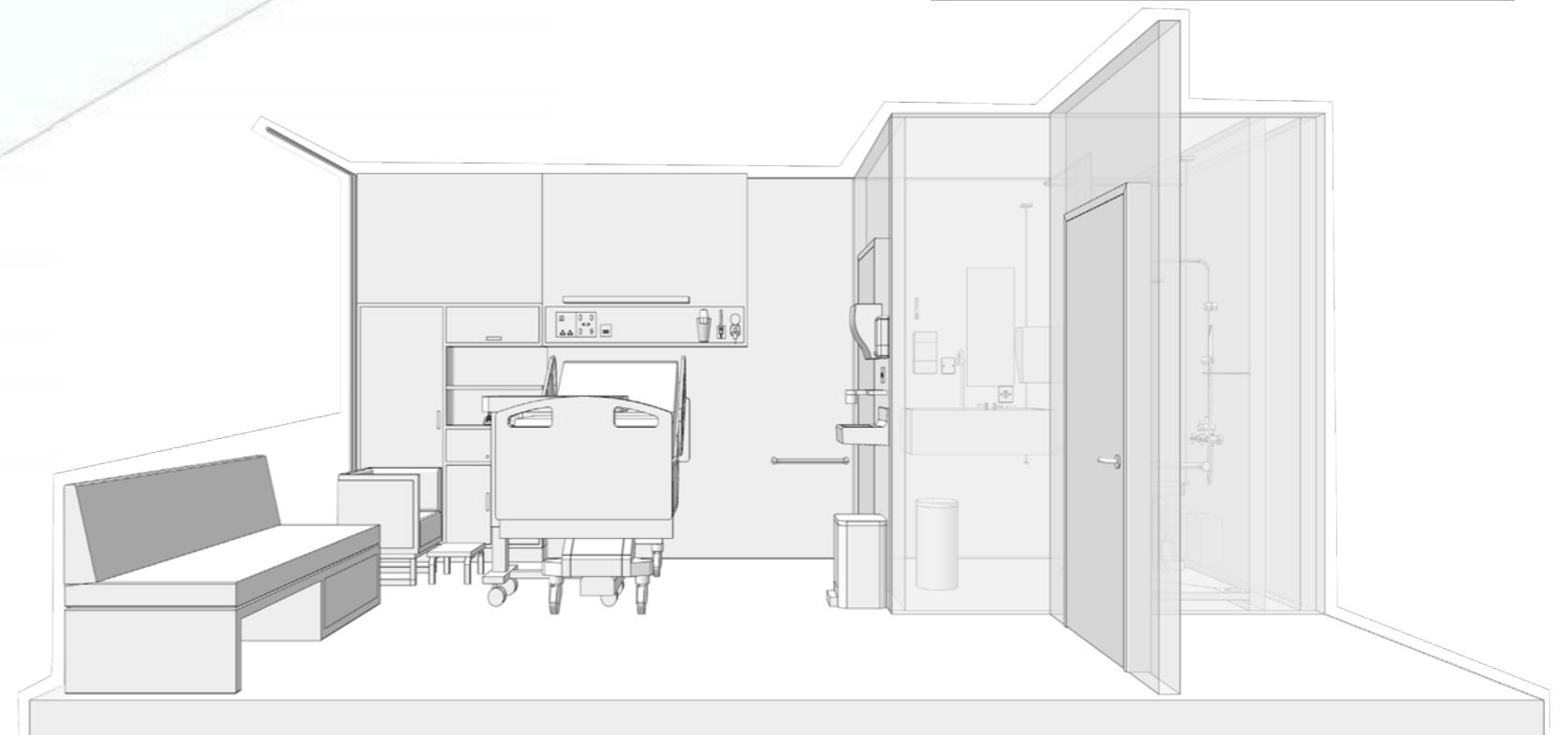
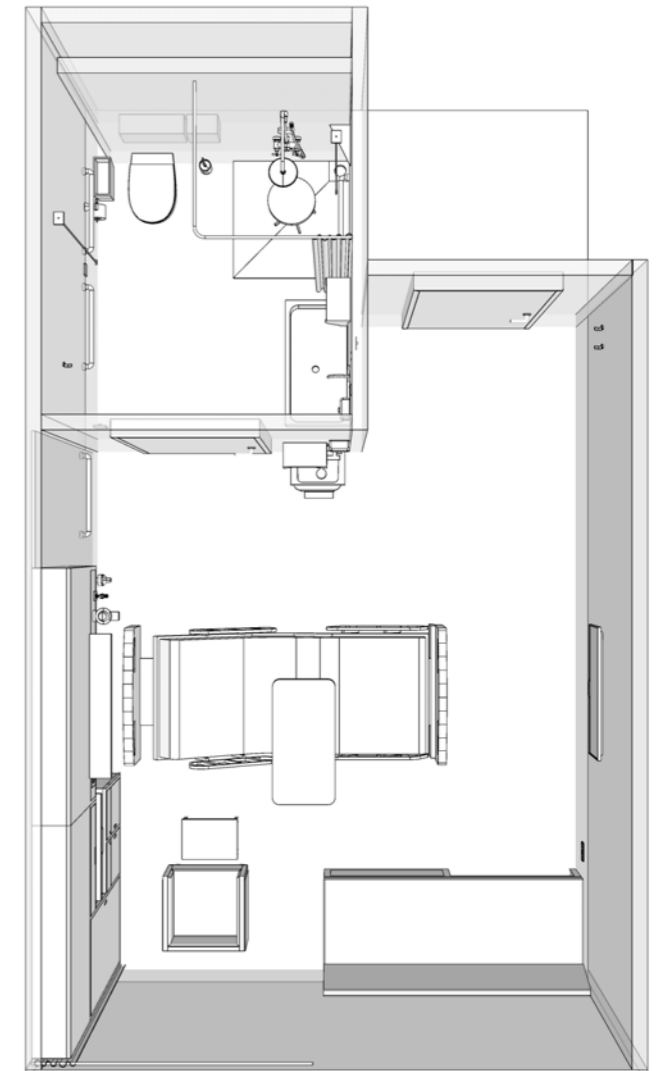
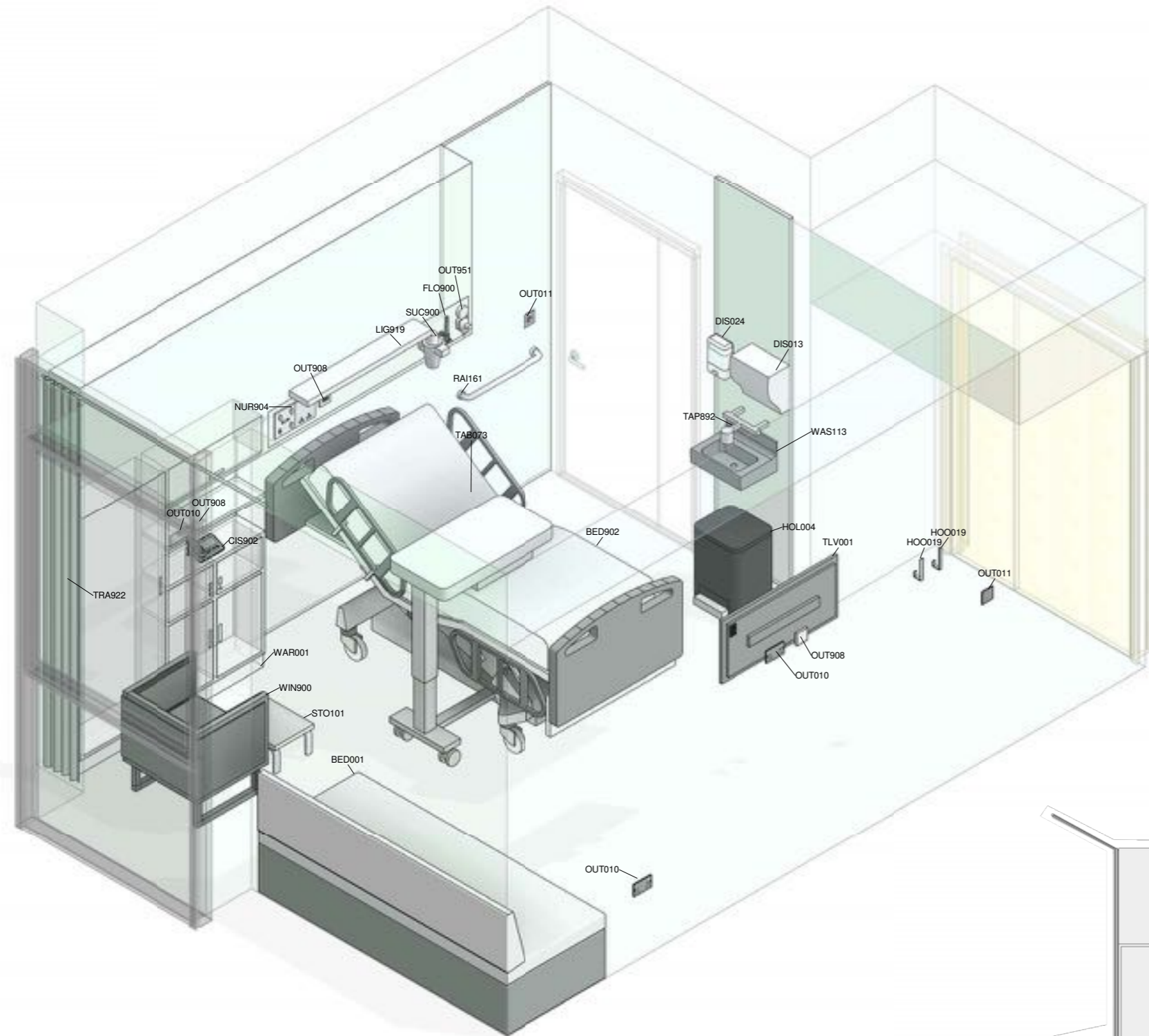




## 6.0 Clinical Grids



# 6.0 Clinical Grids





## 7.0 Site pictures

### Groundworks





## 7.0 Site pictures

### Groundworks





## 7.0 Site pictures

### Clinical Wing Superstructure





## 7.0 Site pictures

### Clinical Wing Superstructure





## 7.0 Site pictures

### Hospitality Wing Superstructure





## 7.0 Site pictures

### Hospitality Wing Superstructure





## 7.0 Site pictures

### Hospitality Wing Superstructure





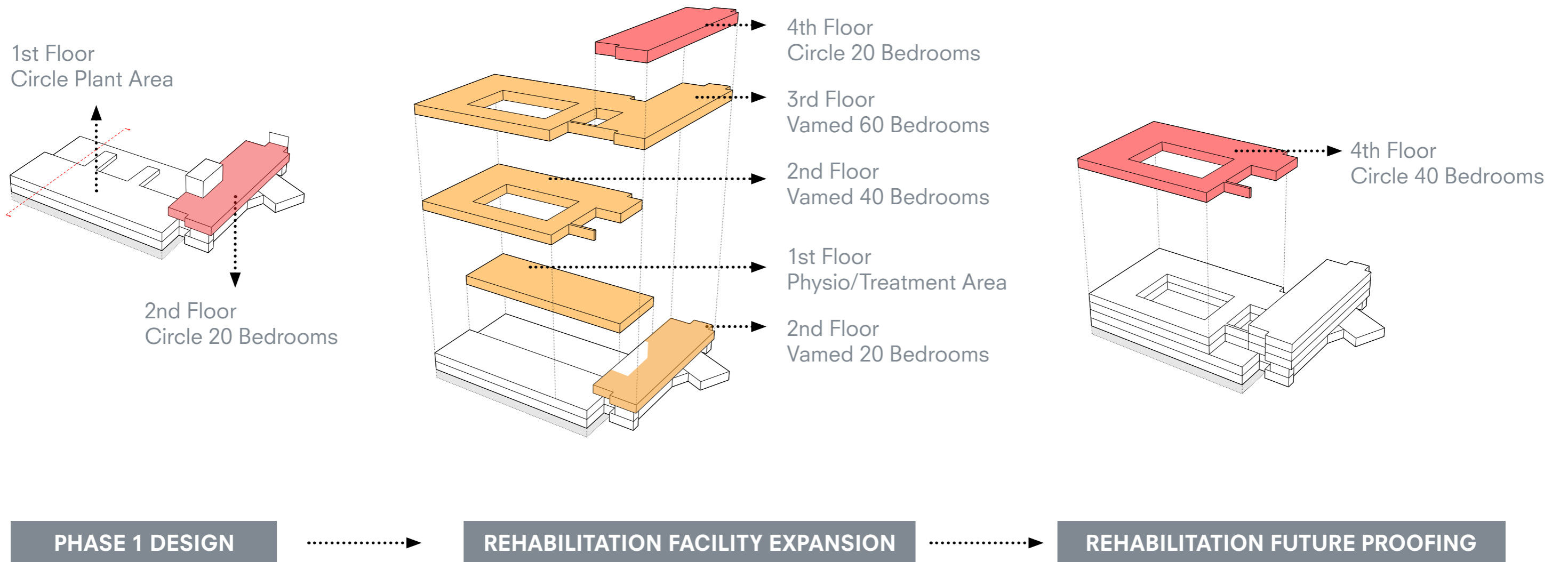
## 7.0 Site pictures

### Hospitality Wing Superstructure





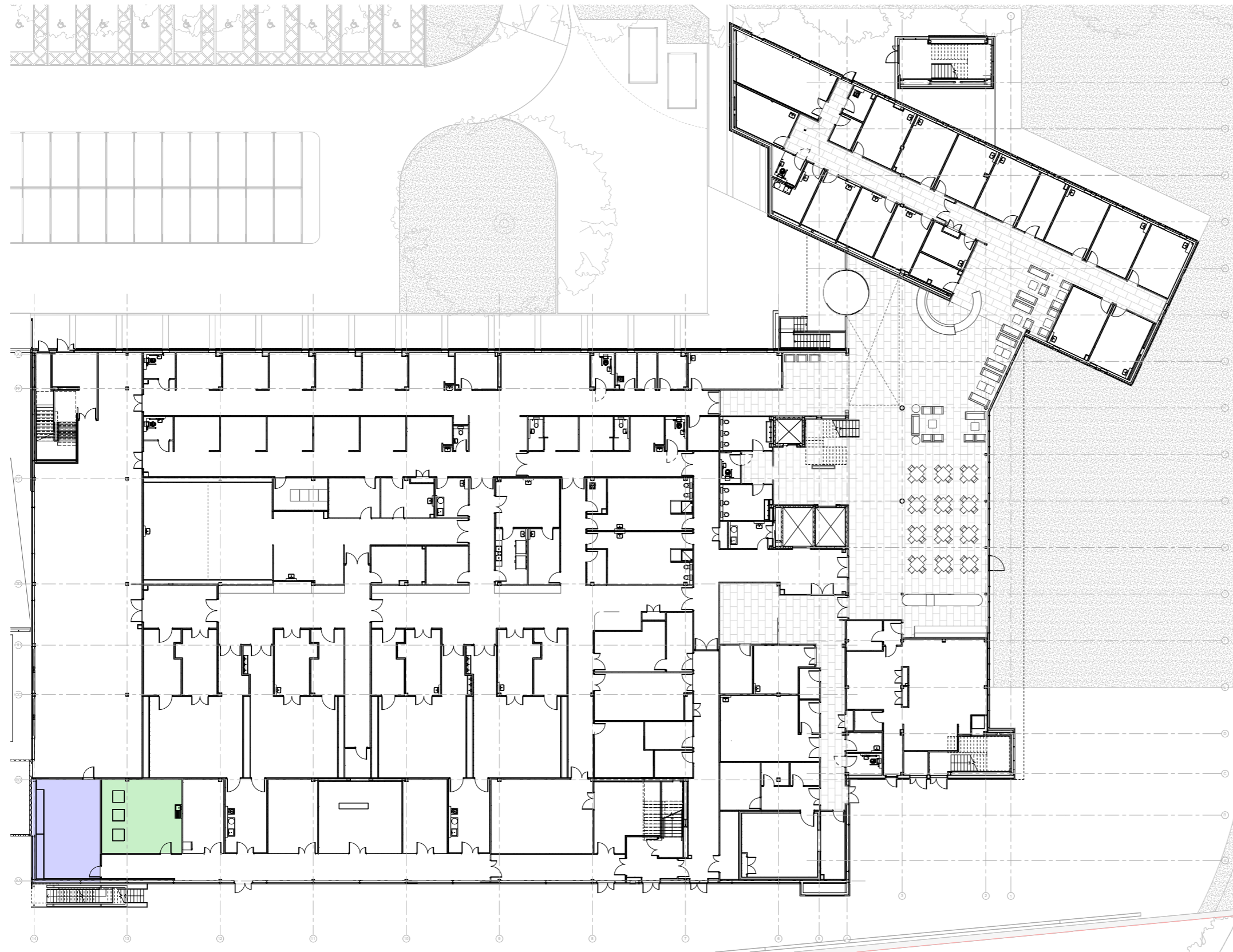
# 8.0 Introduction of the 120-bed rehabilitation facility



## 8.0 Introduction of the 120-bed rehabilitation facility

### Ground Floor Level

Recovery Facility management

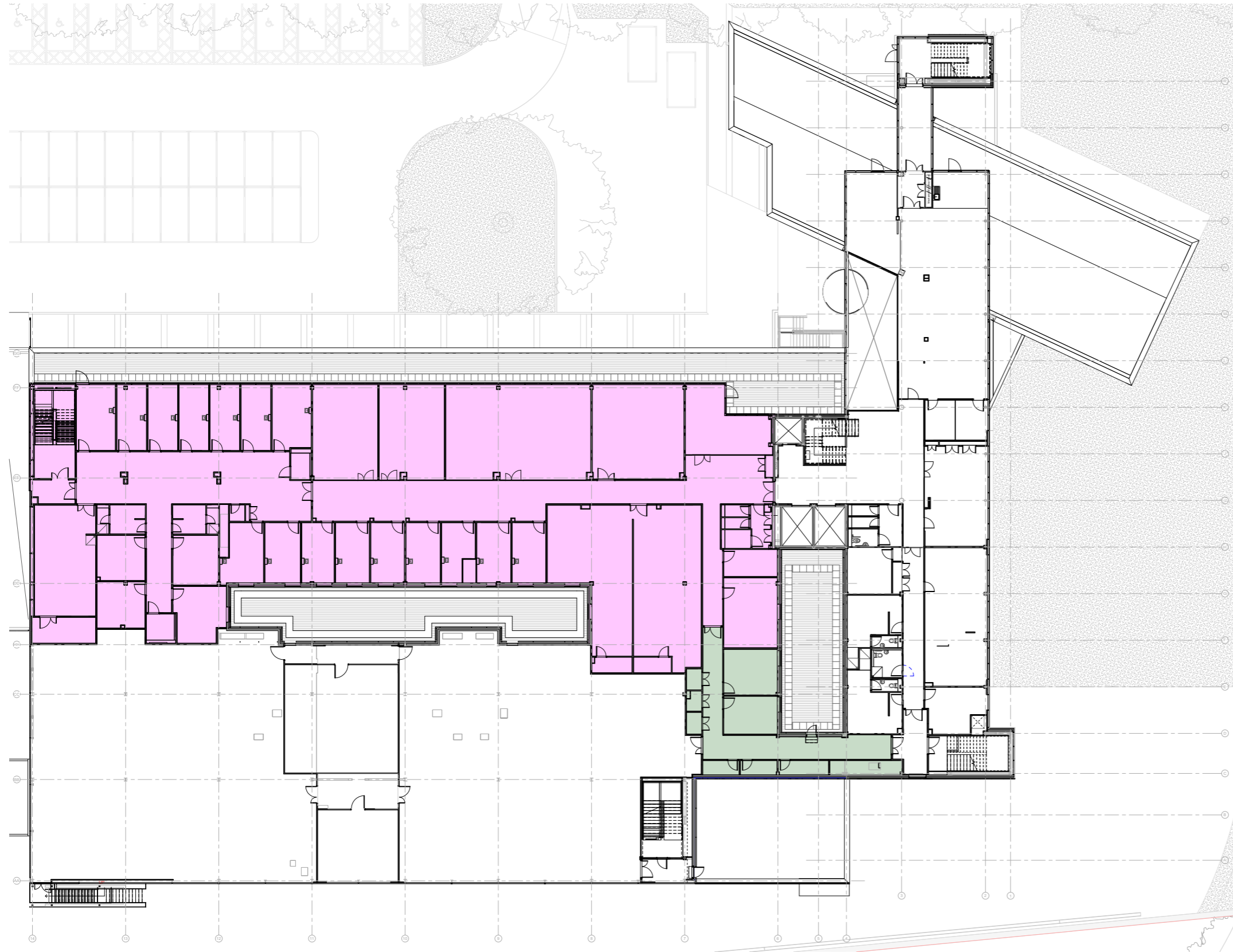




## 8.0 Introduction of the 120-bed rehabilitation facility

### First Floor Level

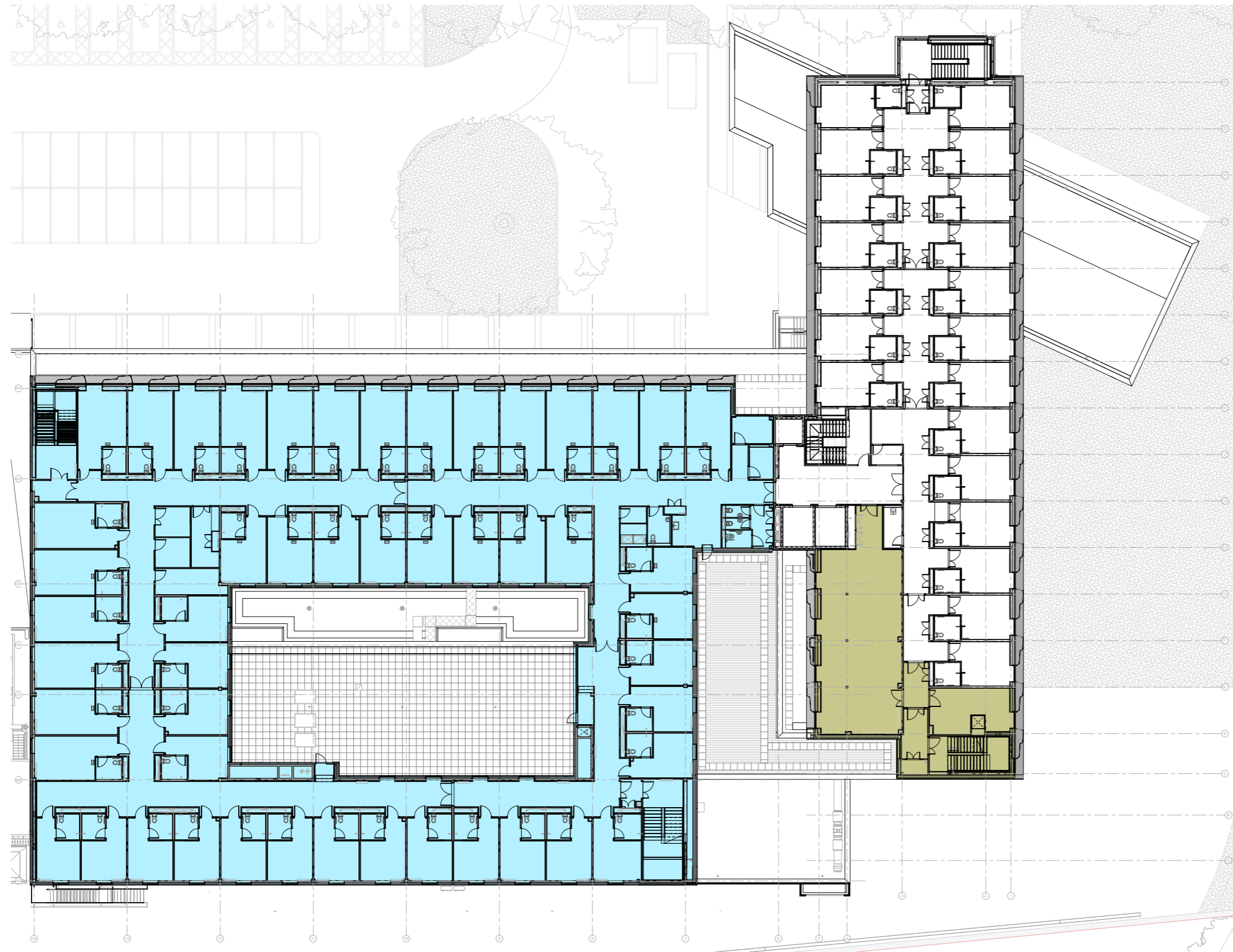
■ Staff    ■ Treatment



## 8.0 Introduction of the 120-bed rehabilitation facility

### Second Floor Level

■ Inpatients    ■ Catering

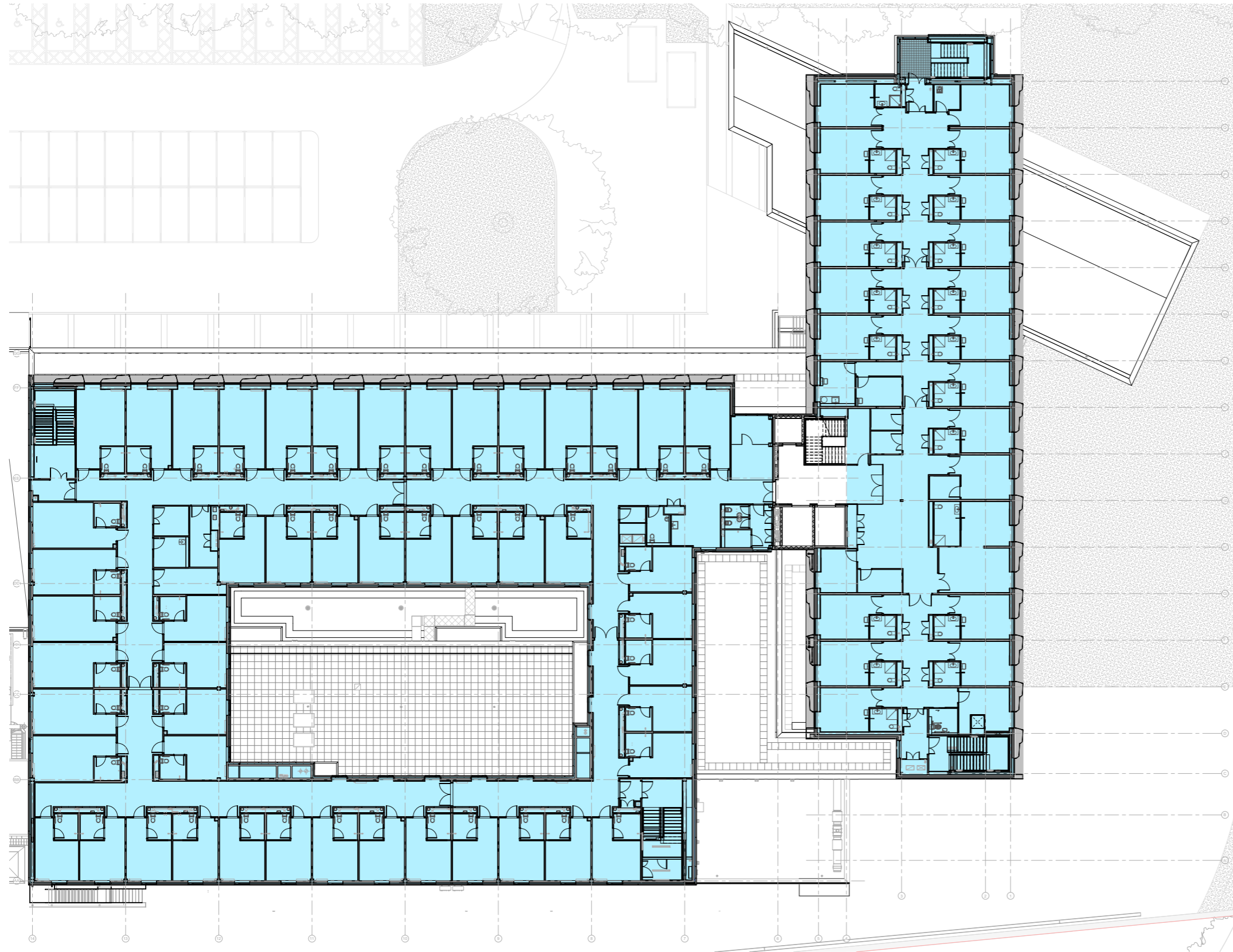




## 8.0 Introduction of the 120-bed rehabilitation facility

### Third Floor Level

■ Inpatients





## 9.0 Site Pictures

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## 9.0 Site Pictures

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## 9.0 Site Pictures

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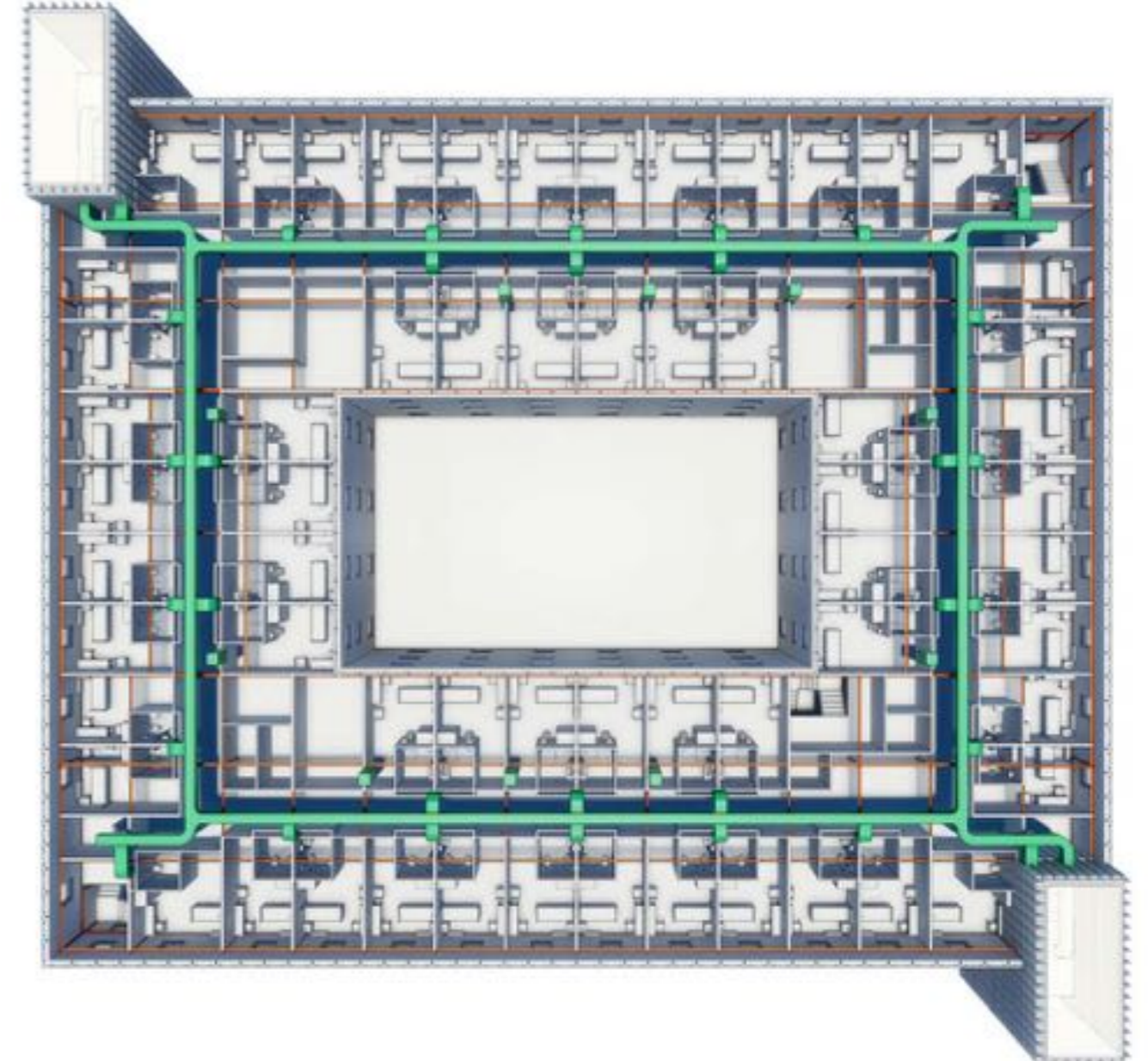






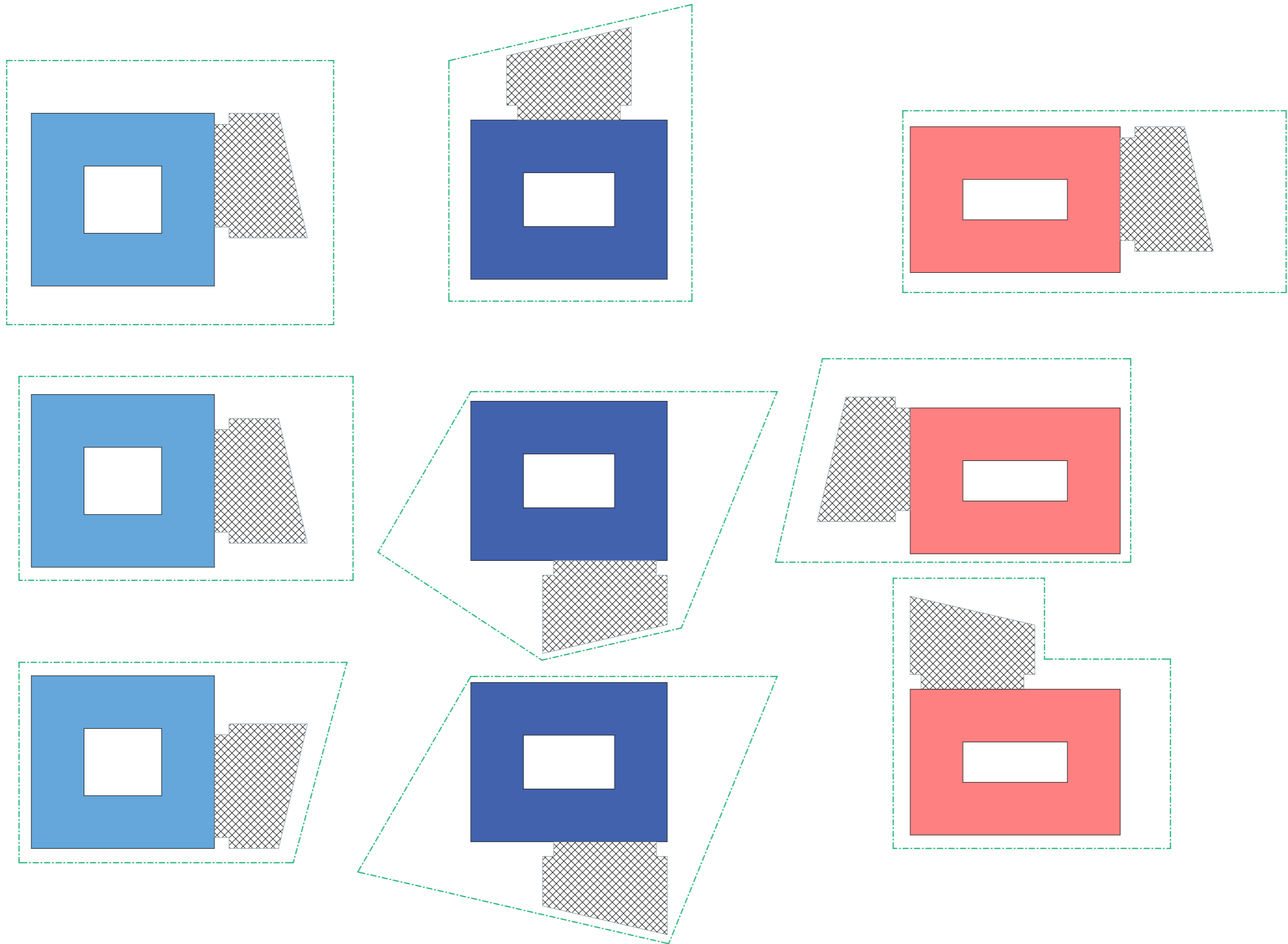
## 10.0 Conclusions and future goals

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# Thank You

