University of Glasgow

KELVIN BUILDING

Design and Access Statement
22/08/2018

Kelvin Building

Contents

Design & Access Statement Reference	Date Issued	Revised	Approved
KEP-KB-XX-RP-A-9075-0010	22.08.2018		

Introduction

1.0

1.0 Introduction

This report was prepared on behalf of the
University of Glasgow

By
Keppie Design

1.0 Introduction

The Client

The Team

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1.0 Introduction

1.2 Executive Summary

The following document represents the architectural design intent strategy for the University of Glasgow Kelvin Building.
The document is a collation and explanation of the key design decisions made following the initial consultation period with the various project stakeholders.

The proposal suggests:

- accessibility improvements
- fire escape and life safety upgrade works
- asbestos upgrade works
- increased accommodation/ wc improvements of the category 'B' Listed Kelvin Building on University Place

Key Works:

- A new fully accessible entrance to the building which will serve to reinforce a main single point of entry at ground level. This also forms a clear focal point that better addresses the vision of the campus wide masterplan
- Formation of a new 5-storey external passenger lift within the courtyard as part of the new entrance works - providing the main vertical circulation with direct links to all floors
- Formation of a new 'link bridge' to the Kelvin Building's east elevation located opposite the rear of the 'Stair Building'.

1.3 Heritage Statement Summary

The assessment of significance has been made based on what is visible on the site, on the exterior of the buildings and in the rooms of Kelvin Building at the time of inspection. A paint sample analysis might also give information about the history of the buildings and changes to their appearance.

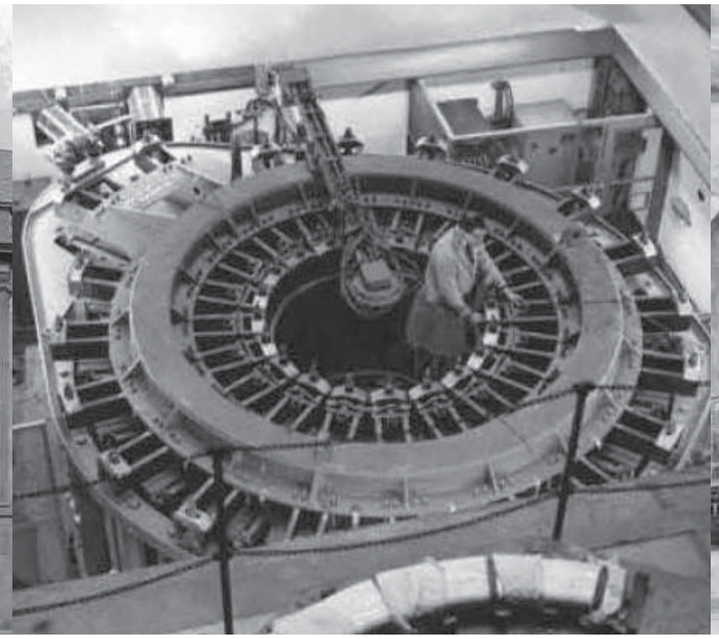
The Burra Charter provides the following definition of cultural significance:

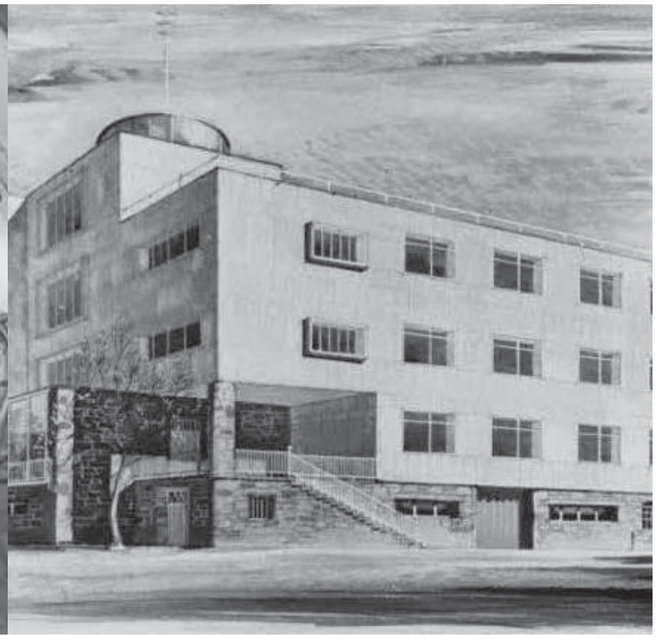
Cultural Significance means aesthetic, historic, scientific, social or spiritual value for past, present or future generations. Cultural significance is embodied in the place itself, its fabric, setting, use, associations, meanings, records, related places and related objects.

The following assessment of the heritage value of Kelvin Building and its setting is based upon an analysis and understanding of the historical development of the site, including the tangible documentary and physical evidence, as well as intangible historical, social and spiritual associations.

The assessment of significance establishes the importance of the Kelvin Building as an item of cultural heritage. The various elements of the building have been graded according to their significance within the overall context of the site. The method for grading of significance is included in Section 3.5.

The assessment of the significance of various elements should help a designer to make the best of the architectural qualities of the building.





See Appendices 4.1 for complete Heritage Statement

Location

2.0

2.1 Site Location

The site is nestled within Glasgow's cosy and cultural West End.

Immediately north of the site runs University Avenue which has strong transport links to Glasgow city centre, to the south of the site is the River Kelvin and River Clyde.

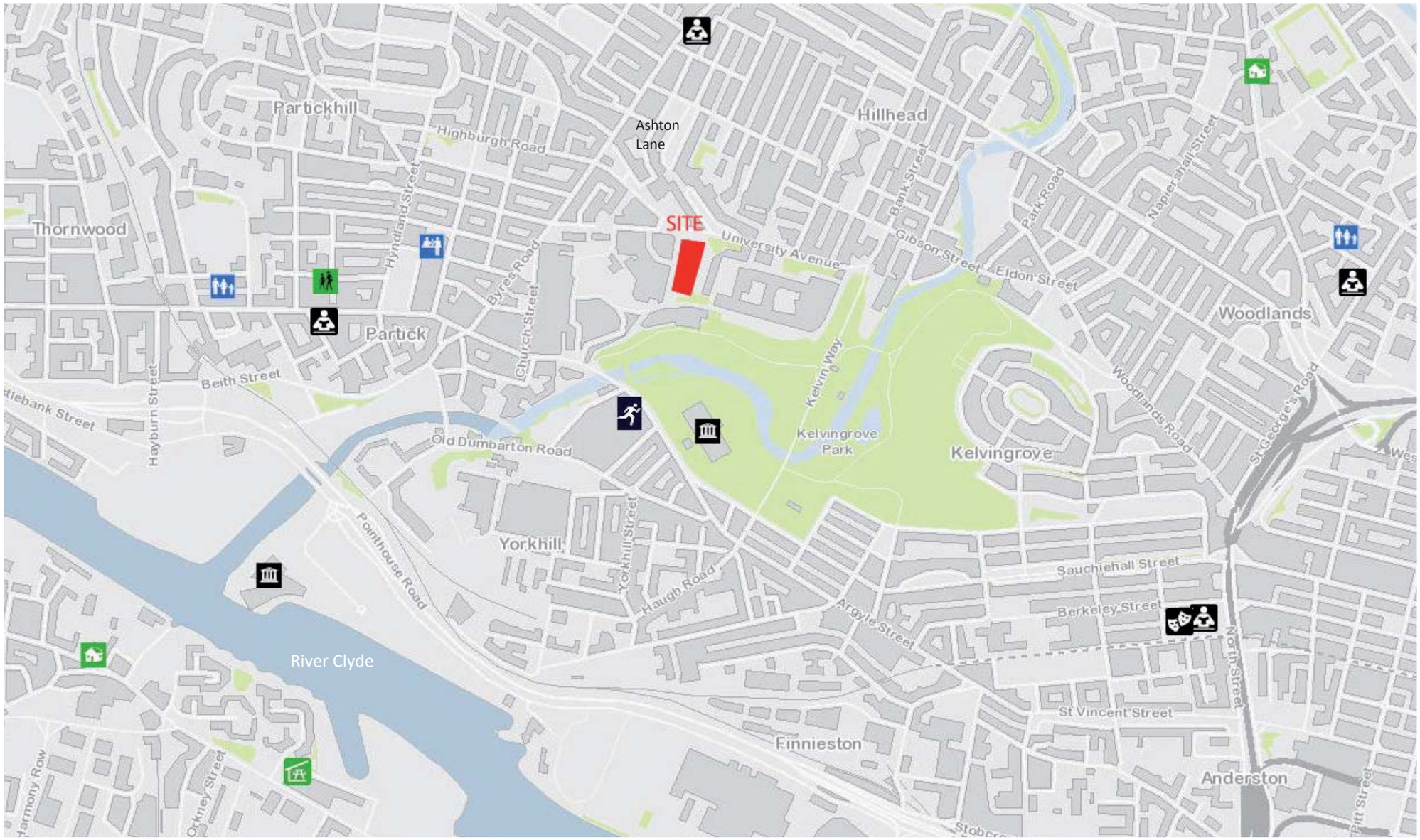
Less then a 5 minute walk to the north is the student-friendly Ashton Lane, a charming cobbled lane full of character which is popular throughout the day and also as a late-night stop, with a great choice of bars and restaurants.
The location of the site is within close proximity to one of the most visited museums in the United Kingdom outside of London, Kelvingrove Art Gallery and Museum. The museum has 22 themed galleries displaying over 8,000 objects and entry is completely free

Scotland Population 5,404,700
Glasgow Population: 608,500

Council Buildings
- Museum
- Library and Learning Centre
- Sports Centre
- Theatre

Glasgow Life Council Managed Facilities
- Public Hall
- Offices

Community Managed Facilities
- Centre
- Community Hall
- Tenants Hall



Kelvin Building in relation to wider context

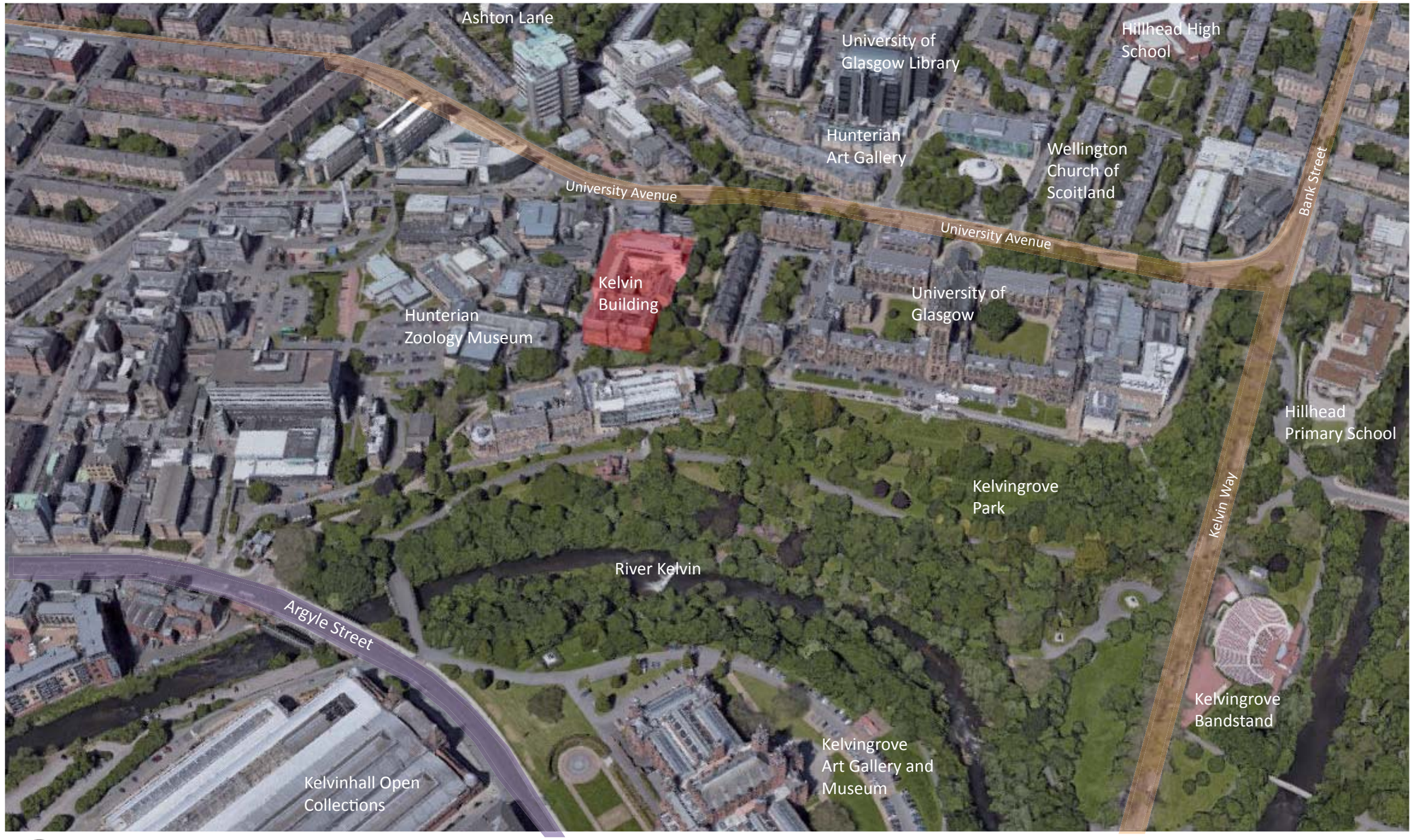
2.0 Location

2.2 Site Context

Kelvingrove Art Gallery and Museum (8 mins walk)

Kelvingrove Park

Ashton Lane is popular with Glasgow University students



Kelvin Building and surrounding amenities

2.3 Site History

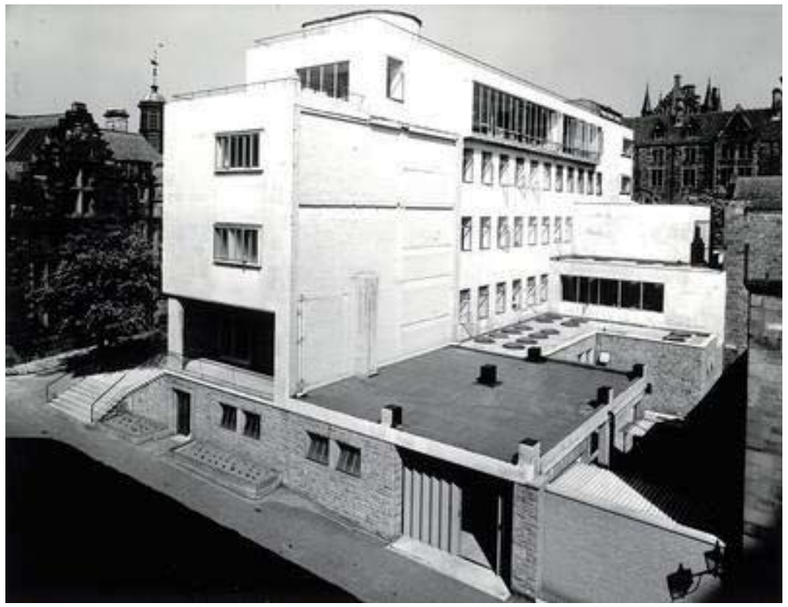
The Kelvin Building comprises two blocks. To the south is James Miller's building completed in 1906. The northern block is by Basis Spence and was built in 1959. The significance of these two parts of the building is mainly external. The Miller part of the building had its main front facing southwards towards the approach rising to the Gilbert Scott building from the south-west. The east and west sides were less important and the side facing north was the back of the building.

The Spence block has its main front facing west with its entrance at the north-west corner. The north and east sides are less important. The west side has a masonry plinth and is detailed as a contemporary extension to the plane of the west side of Miller's building. There is less significance inside the building. It is possible that the courtyard was originally carefully detailed within the Spence block but this has been altered and has been consistently treated as the back of the building over the last 40 years.

The inside of both buildings has little of significance. There were large rooms in the eastern block of the Miller building but these have been sub-divided. The entrance hall of the Spence buildings has moderate significance but has also been altered.

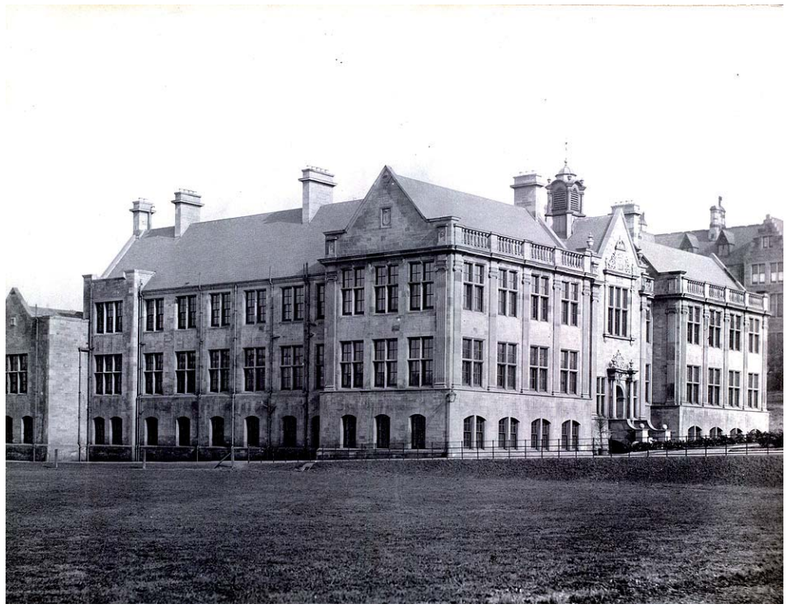
For reasons of access and presentation, the Spence building needs to have a new entrance at ground floor level. The ground floor contains a pend through to the courtyard which is no longer needed in this form. This work will be identifiably an alteration but it will protect stair access which rise to the north-west entrance, from change. Since this entrance is the main set piece in Spence's design, it is more desirable to create a new entrance than to fundamentally alter the steps and balcony to the current entrance which can be left untouched.

The new entrance breaks through the stone plinth. Spence's design does contain a stone plinth as an important part of the design but this is mainly detailed as a band.



1. Physics extension to the Natural Philosphy Building

2. Kelvin Hall Lecture Theatre 1957



3. Kelvin Building 1907

4. Kelvin Building Present day

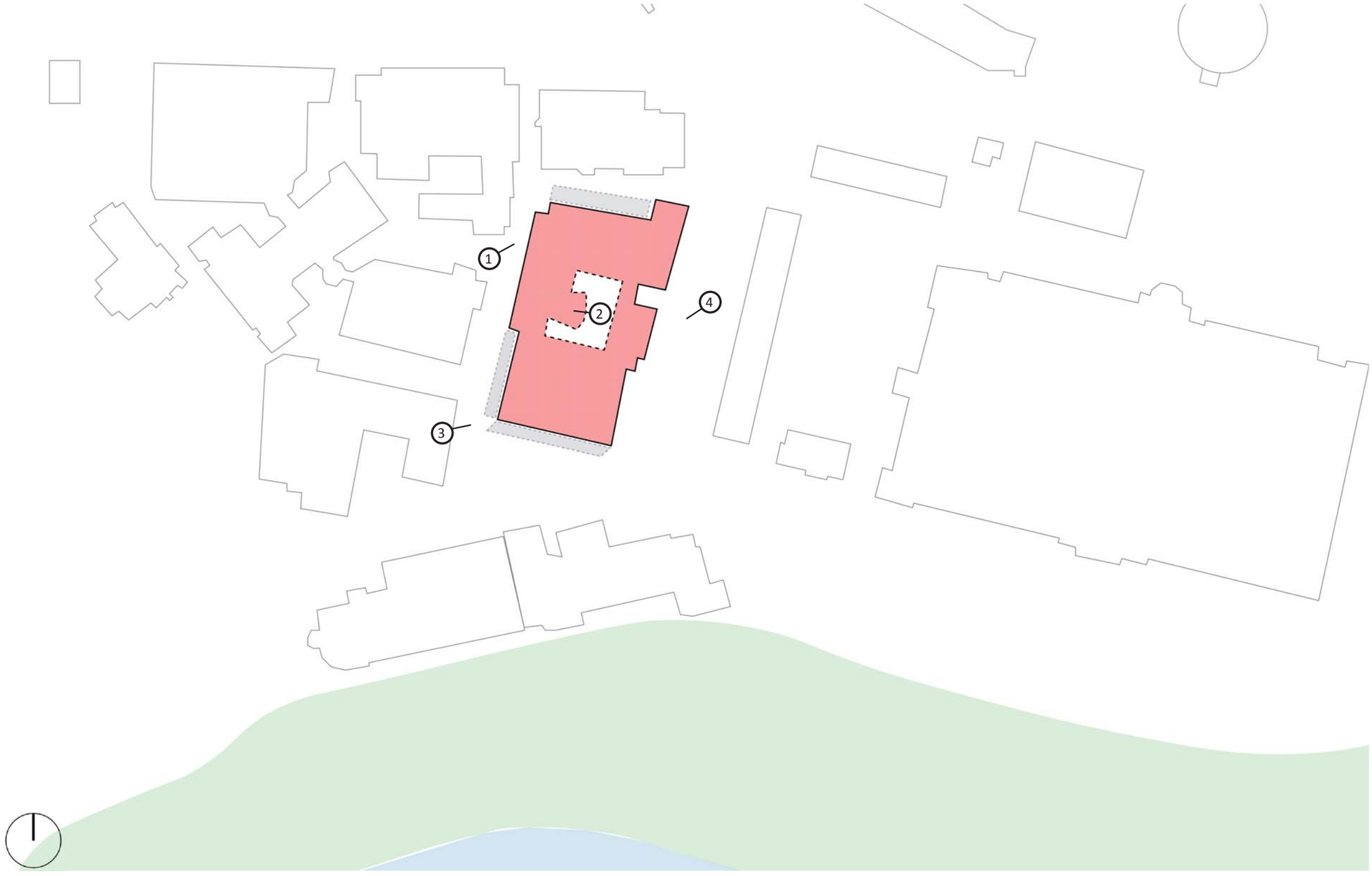
2.3 Site History

The new design retains the band or the difference between ground floor and the upper floors legibly. Spence detailed a pend to cut through the plinth band. The current design takes the lead from the signal in Spence's design that it was appropriate to cut through the plinth. The design is legible as an alteration, as it should be. Its impact is minimal in conservation terms although, naturally, a new entrance needs to be visually prominent.

The bridge link connects to the east side of the Miller building. This side of the building can, and has, sustained change without detracting from the overall significance of the building. It can certainly sustain a carefully designed and attractive bridge which will not detract from the building and could be considered to be an improvement. The detailing of the new access should be in keeping with the character of the surrounding masonry of the existing windows. The bridge will be designed to have minimal physical impact on the existing building.

The lift will be set within the corner of the courtyard. It would also be clearly an intervention. Alterations to the courtyard elevations of either the Miller or the Spence buildings have negligible effect on the overall significance of the building.

Generally, internal alterations do not affect the significance elements of the building. Any improvement to the Spence entrance hall, for instance by removing later accretions and the non-original porter's lodge is to be welcomed in conservation terms.



Site plan indicating the history illustrations of the Kelvin building

2.4 Constraints & Opportunities

The site to the south (red) comprises of the retained facade in the Scottish Renaissance style, forming the primary edge to main vehicle/ pedestrian entrance to the site.

The modernist extension block to the north of the Kelvin Building looks onto the School of life sciences which is separated by a small car park. The east of the site has extensive woodland forming a screen to University Avenue and creates unique vista points of University of Glasgow.

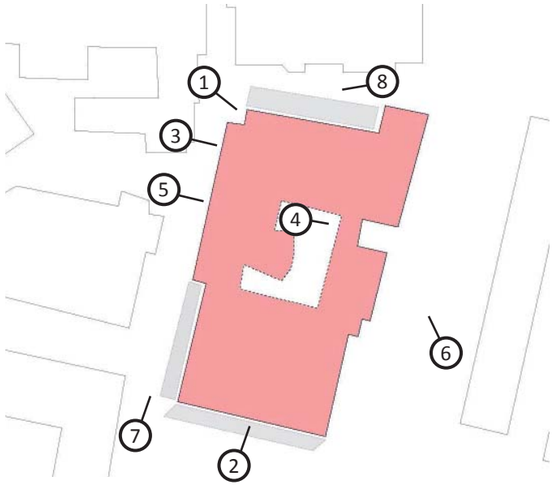
1. Vehicular Entrance to Site

2. Main Entrance to Kelvin Building

3. Aerial View Looking onto North and West Facade of Kelvin Building

Kelvin Building Present day

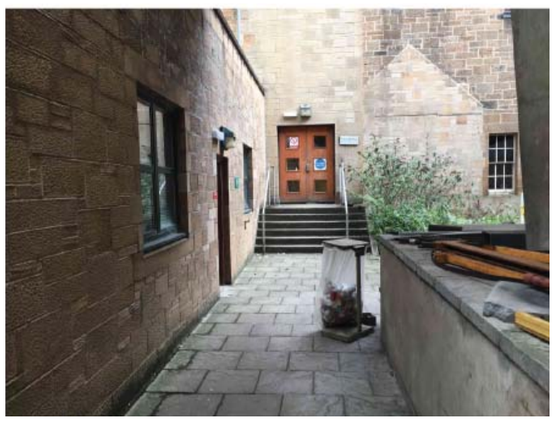
2.5 Site Photos



1. Main Entrance Door 1 - North West Corner of Building (non accessible main entrance)

2. Main Entrance Door 2 - Entrance at South Facing Elevation (non accessible entrance)

3. Entrance to G/F (Level 1) on North West Corner (out of hours Door 3)



4. Fire escape door from Lecture Theatre 257 (Entrance Door 5)

5. Courtyard/ Deliveries/ Access below pend/ accessible entrance (Entrance Door 4)

6. The Kelvin Building East Facing Elevation / landscape strip

7. Clear footpath from the West of Kelvin Building

8. Accessible parking to the North of the Building

2.6 Transport Links

The Kelvin Building is well supported by local bus routes and subway with frequent services to Glasgow city centre and surrounding areas.

Train (walking distance from Kelvin Building)
Glasgow Central.....38 mins walk
Queen's Station.....41 mins walk
Exhibition Centre Station.....21 mins walk
Charing Cross Station.....25 mins walk
Anderston Station.....29 mins walk

Bus (walking distance from Kelvin Building)
There are many fast a frequent services to Glasgow city centre within walking distance from site.
Buchanan Bus Station.....36 mins walk

Subway (walking distance from Kelvin Building)
Hillhead Subway Station.....5 mins walk
Kelvinhall Subway Station.....7 mins walk
Kelvinbridge Subway Station..17 mins walk
Partick Subway Station.....18 mins walk

Car
M77 - Links to Kilmarnock/ Prestwick and Ayr

M8 - Links to Edinburgh and Dundee

Kelvin Building
Bus Stops to Glasgow City Centre
Subway
Main Train Stations
Bus Station
Main Roads
Walking Routes to Train / Bus Stations

Main Transport Links near Kelvin Building

2.7 Site Access

Approach to West Elevation of Kelvin Building

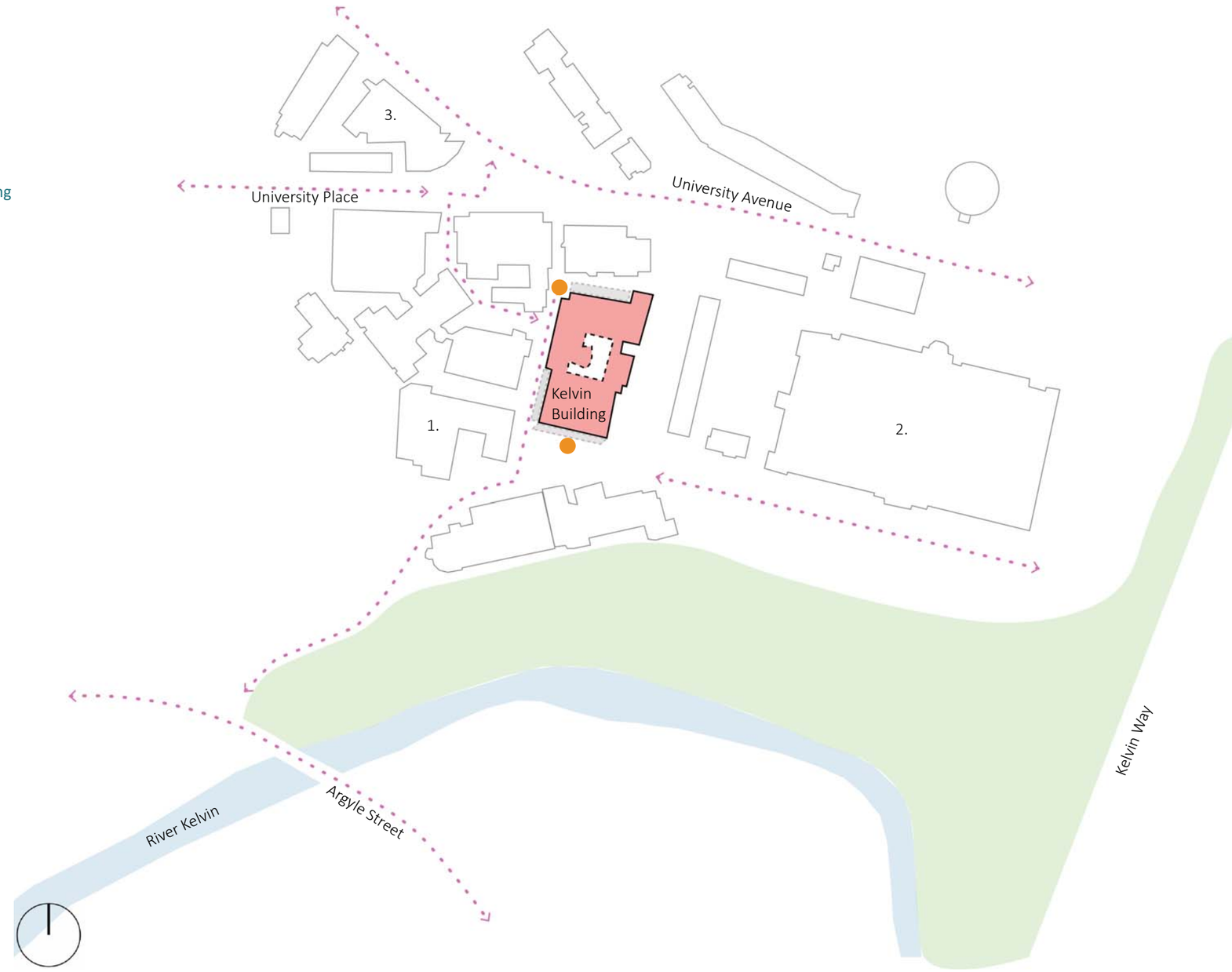
University Avenue

Entrance from Argyle Street

Main Entrances

Main Roads to Kelvin Building

1. Hunterian Zoology Museum
2. University of Glasgow
3. Wolfson Medical School Building



Primary Access to Site

Building Strategy

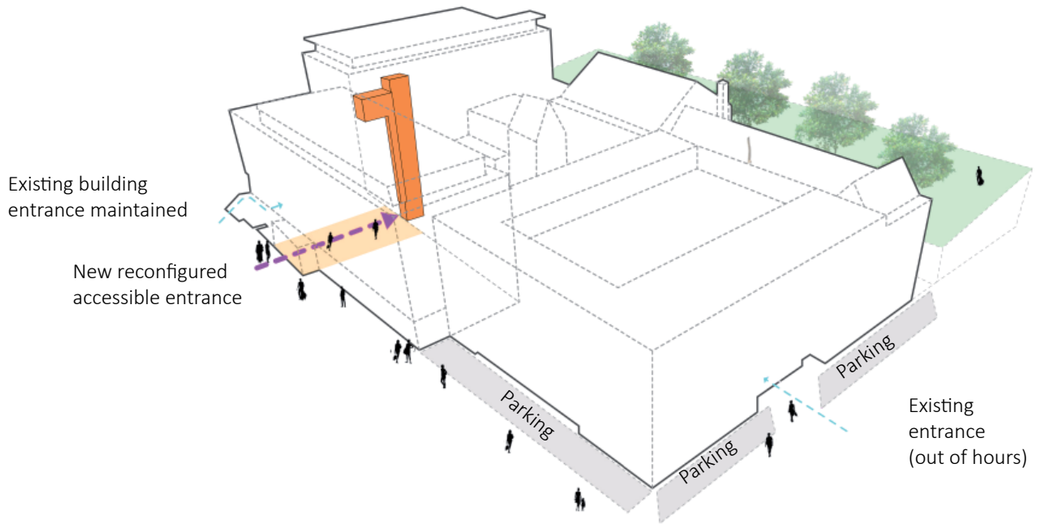
3.0

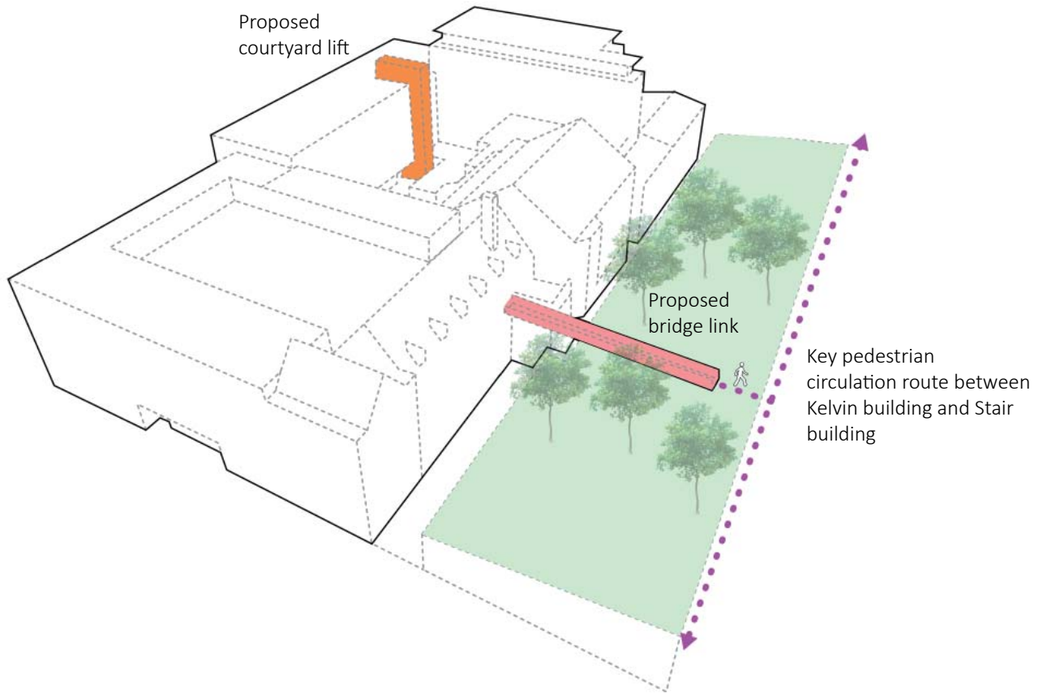
3.0 Building Strategy

3.1 Building Strategy Diagram

The feasibility study has identified an obvious opportunity to form a new fully accessible entrance to the building which will serve to reinforce a main single point of entry at ground level (level 01).

This also forms a clear focal point that better addresses the vision of the campus wide masterplan.



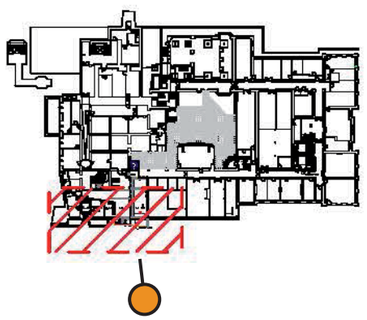


Building Strategy Diagrams

3.2 Proposed Accessible Entrance

Key Works

- Formation of a new accessible and engaging entrance as part of upgrade works to existing pend access (which currently provides back of house access to stores/ plant as well as courtyard)
- Accessible entrance to the building will serve to reinforce a main single point of entry at ground level
- Forms a clear focal point that better addresses the vision of the campus wide masterplan
- Re-configuration of the radiation services offices immediately adjacent to the pend to form the main entrance / reception area (opened up for improved visibility through shop front glazing / new cladding treatment to walls and soffit)
- New main reception point for the building
- Direct link to new 5-storey lift to the rear of the pend
- Existing entrance still retained



Accessible Entrance Visual Proposal

3.0 Building Strategy

3.2 Proposed Accessible Entrance

The feasibility study has identified an obvious opportunity to form a new fully accessible entrance to the building which will serve to reinforce a main single point of entry at ground level. This also forms a clear focal point that better addresses the vision of the campus wide masterplan.

These works, in addition to the proposed reconfiguration of the current reception and entrance at level 1, will form the most substantial intervention to this category B listed building.

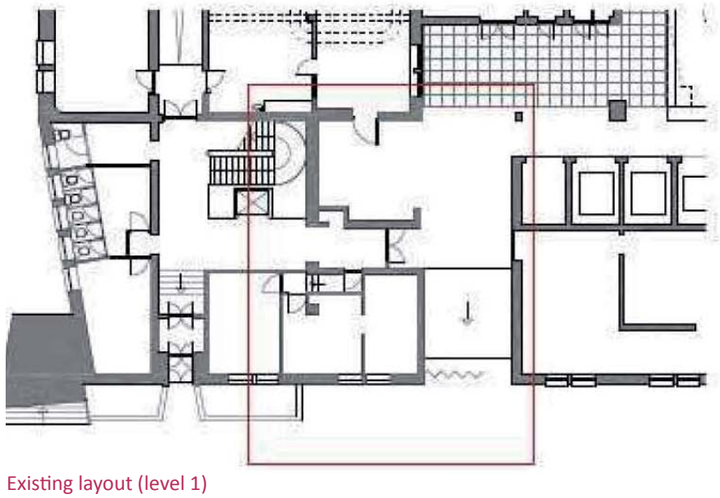
This intervention is regarded as necessary to improve the building's main access and general circulation, will have a major impact on the original Basil Spence extension and will therefore require sensitive consideration.

Existing / historic

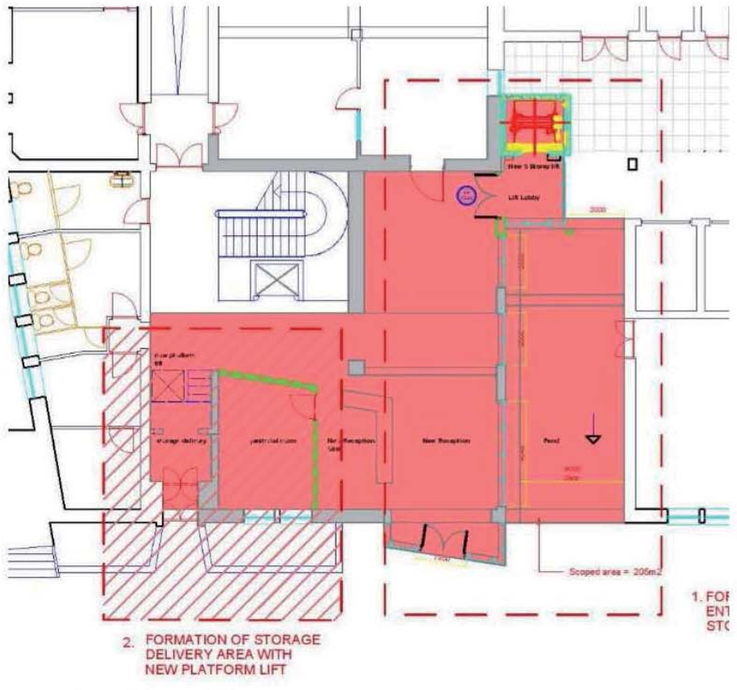
Sir Basil Spence extension – main entrance

Views within the existing pend

Proposed accessible entrance from north visual



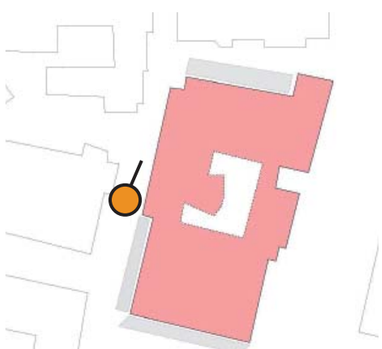
Existing layout (level 1)



Proposed layout (level 01)

Accessible Entrance Visual Proposal from North

3.0 Building Strategy

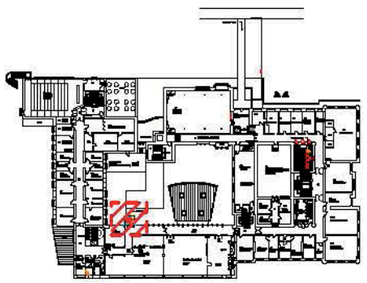


Accessible Entrance Visual Proposal from South

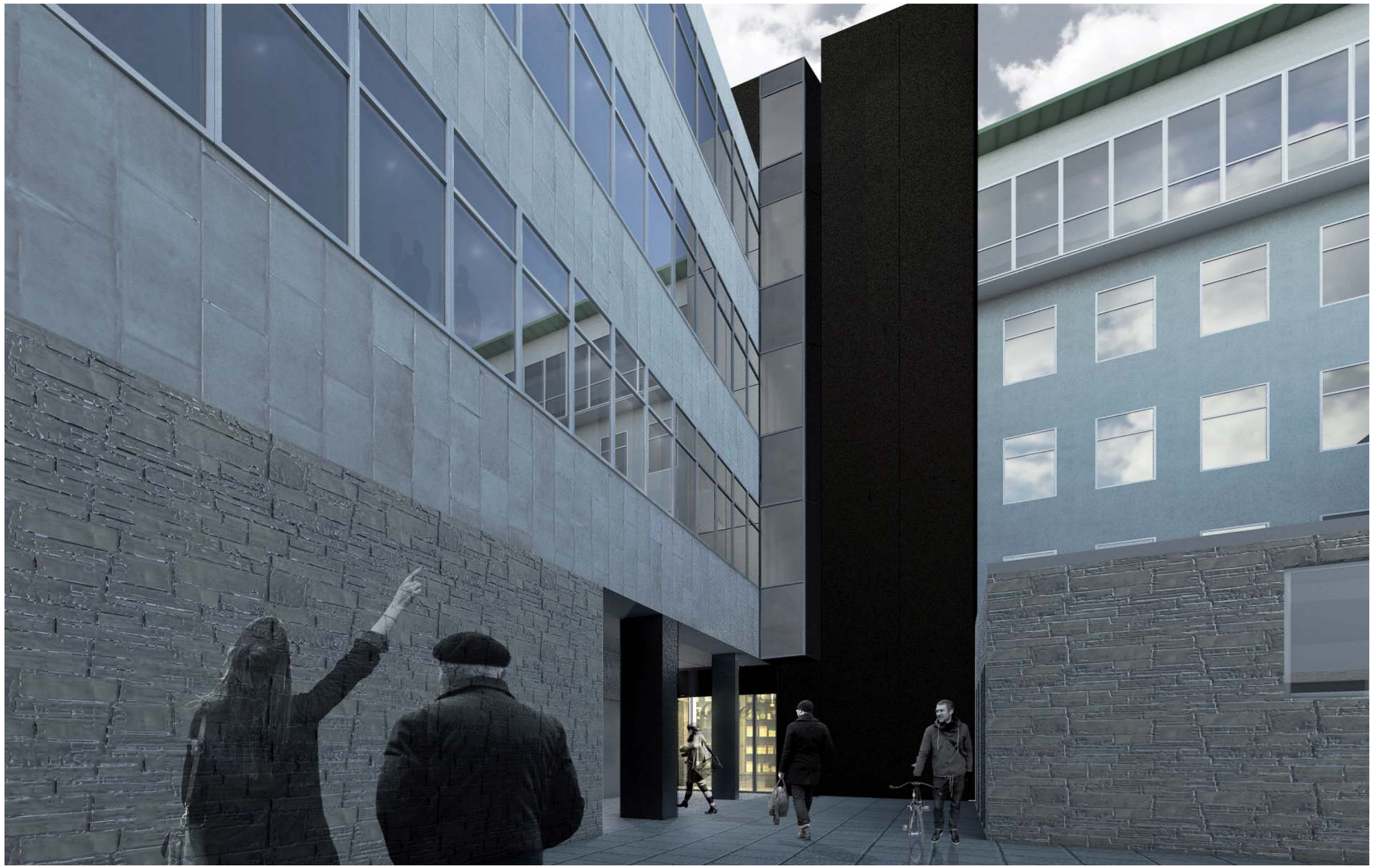
3.3 Proposed Courtyard Lift

Key Works

- Formation of a new 5-storey external evacuation lift
- Type - Schindler 5500 or equivalent and consented to 21 person 1600kg
- Lift proposal careful considered to remain sensitive to existing and historic Sir Basil Spence extension



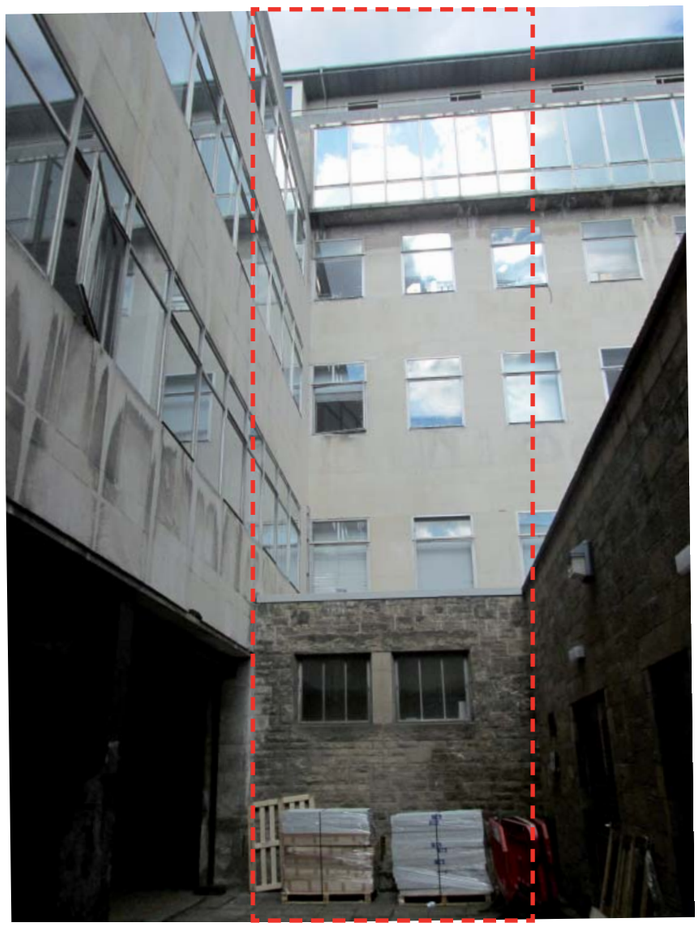
Location Key



Proposed Internal Courtyard Lift Visual

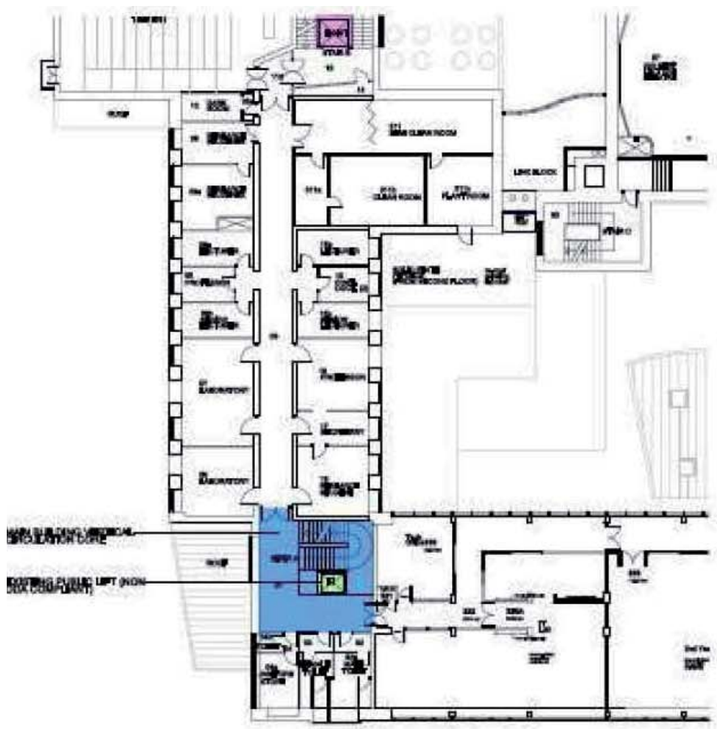
3.0 Building Strategy

3.3 Proposed Courtyard Lift

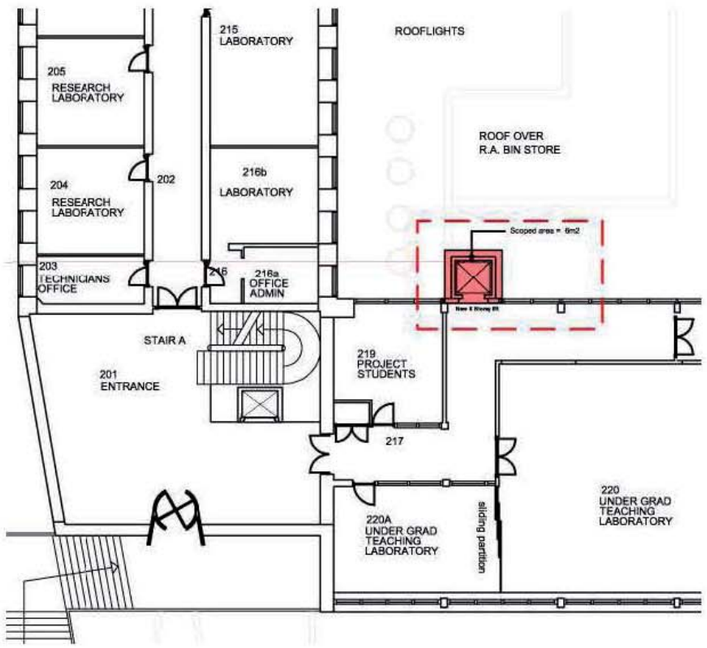


Existing / historic

View from within courtyard looking at Sir Basil Spence extension



Existing lift capacity/ locations (main public / goods)

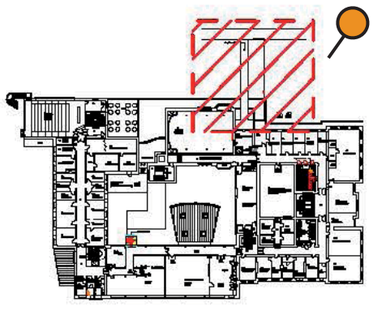


Proposed new 5-storey public lift (fire evacuation status TBC)

3.4 Proposed Bridge Link

Key Works

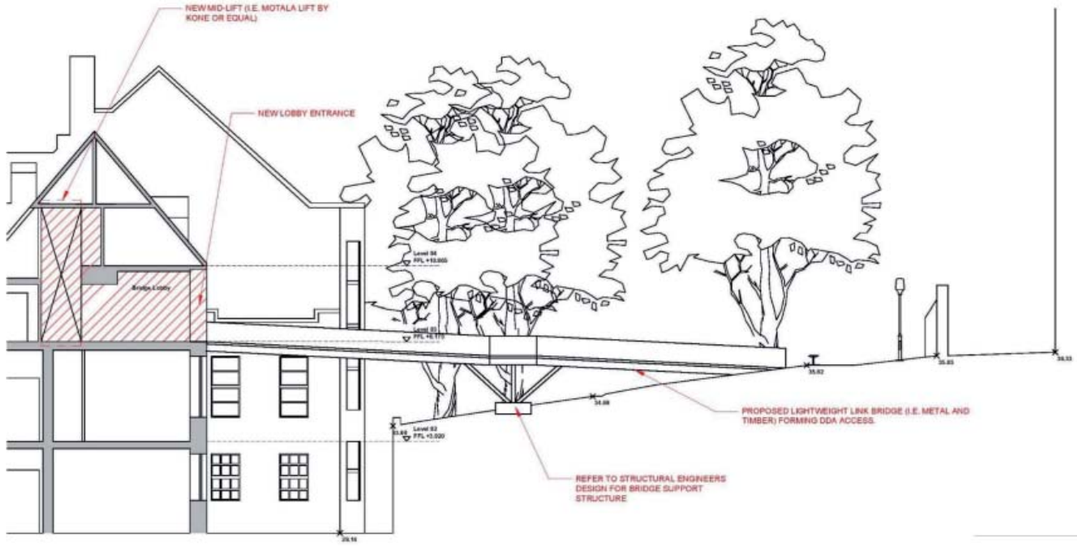
- Formation of a new ‘link bridge’ to the Kelvin Building’s east elevation located opposite the rear of the ‘stair building’
- The bridge connection will provide necessary accessibly linkage direct to level 3 and the rear of the lecture theatre at high level
- Formation of a relatively lightweight link bridge
- Re configuration room 55a/ lobby to allow for a new lobby/ ‘out of hours’ entrance to the building
- Structural bracing to existing wall required



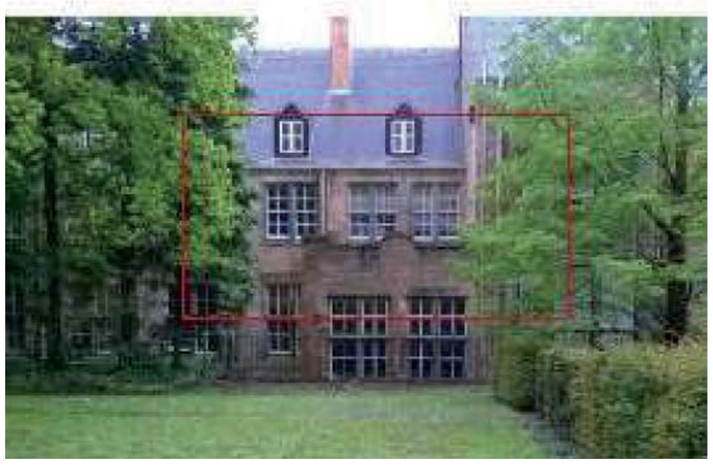
Location Key

Proposed Bridge Link Visual

3.4 Proposed Bridge Link

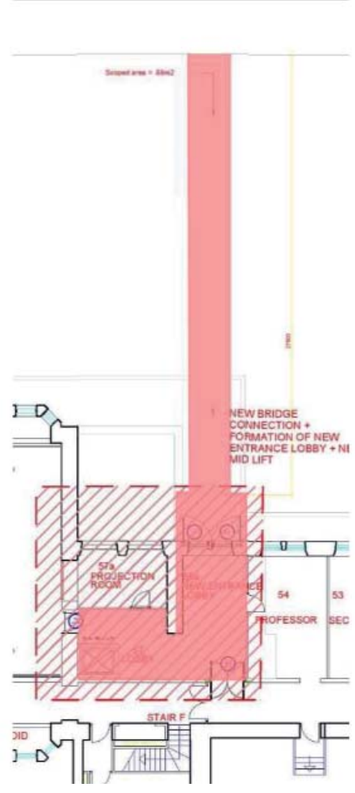


Proposed section (identifying notional bridge link)



East elevation as existing

Proposed level 3 plan (identifying location of proposed works)

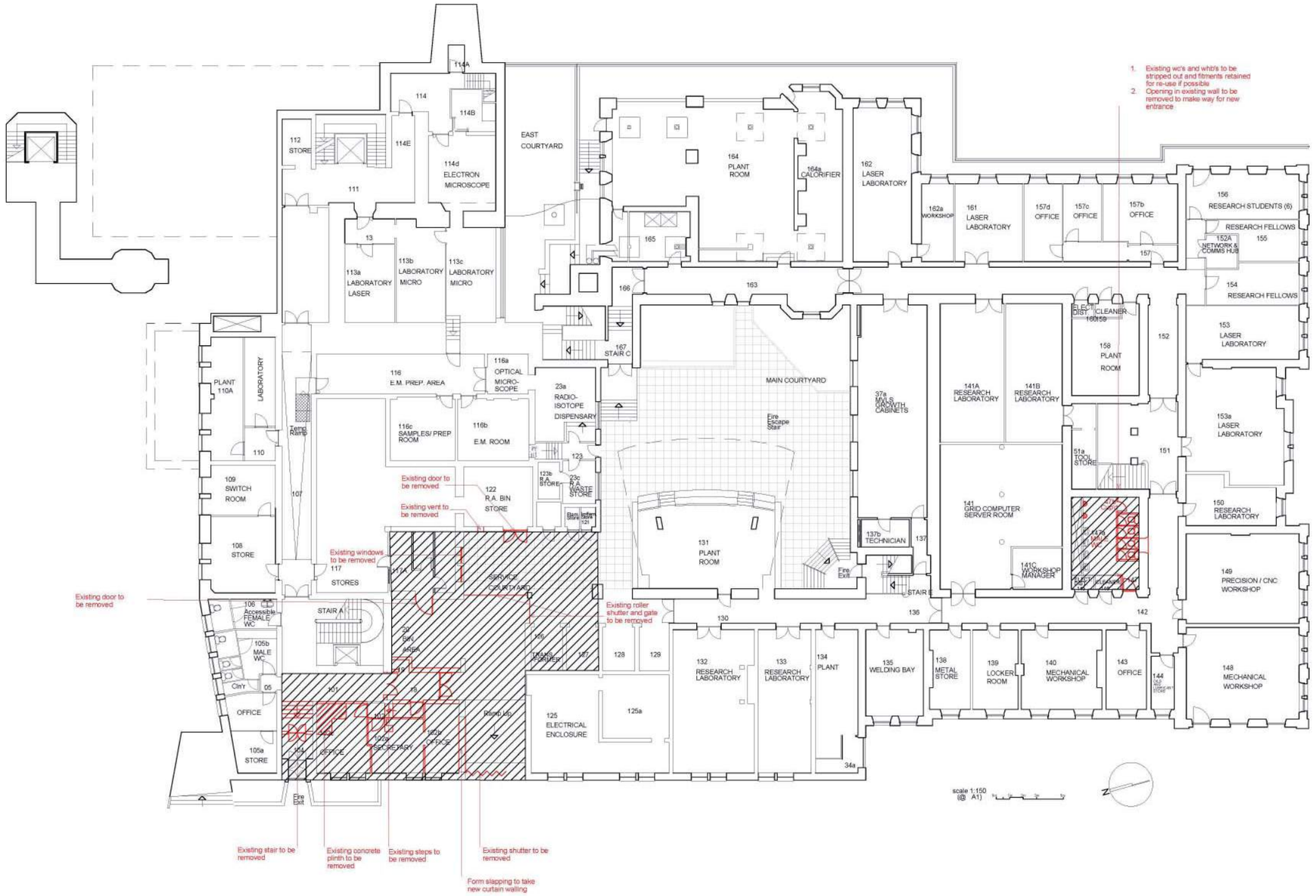


Proposed level 3 plan (identifying notional bridge link / internal wall Reconfiguration works)

3.5 Downtakings

Level 01

Refer to Drawing
(KEP-KB-01-DR-A-1010-0110)

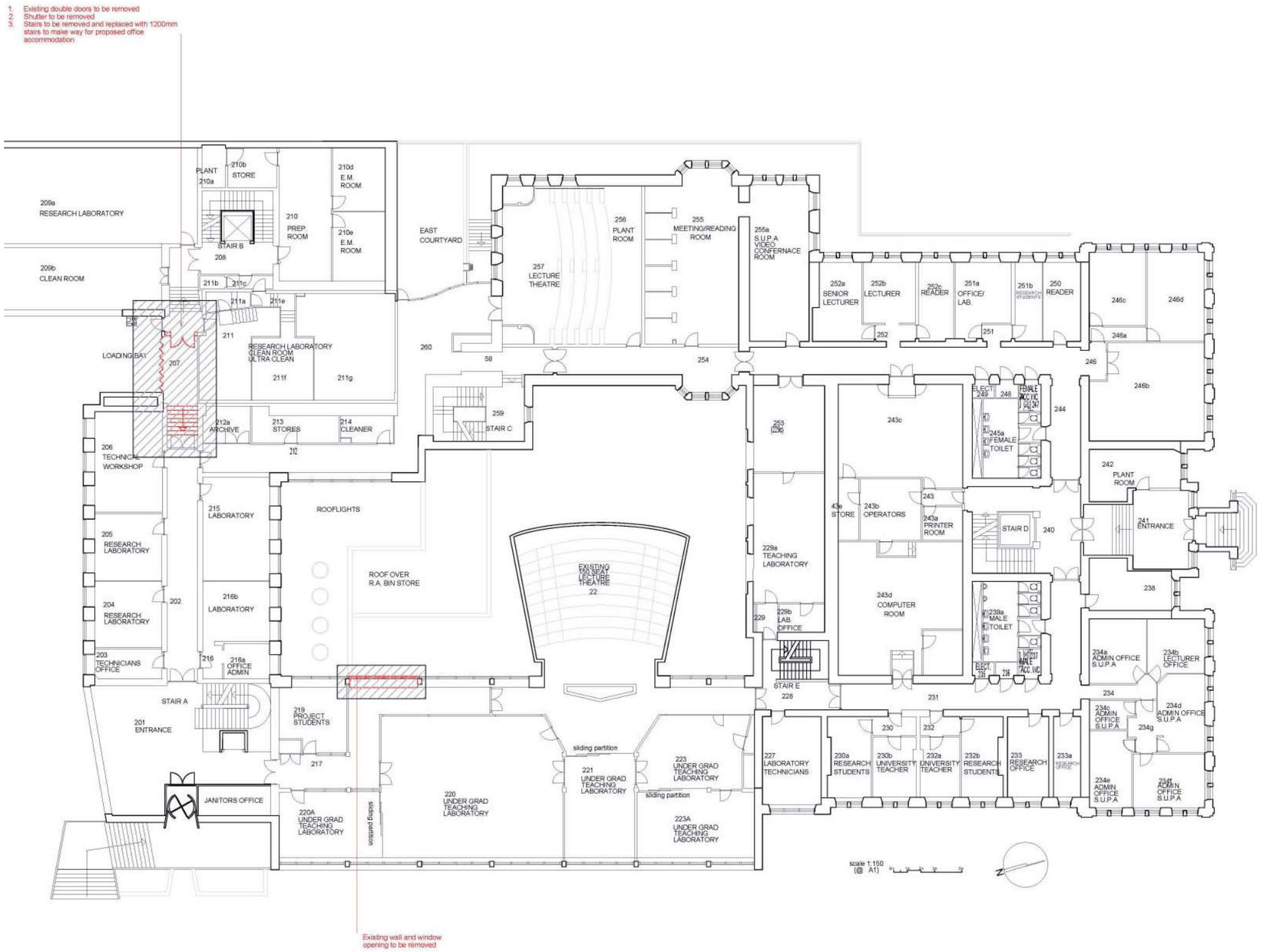


3.0 Building Strategy

3.5 Downtakings

Level 02

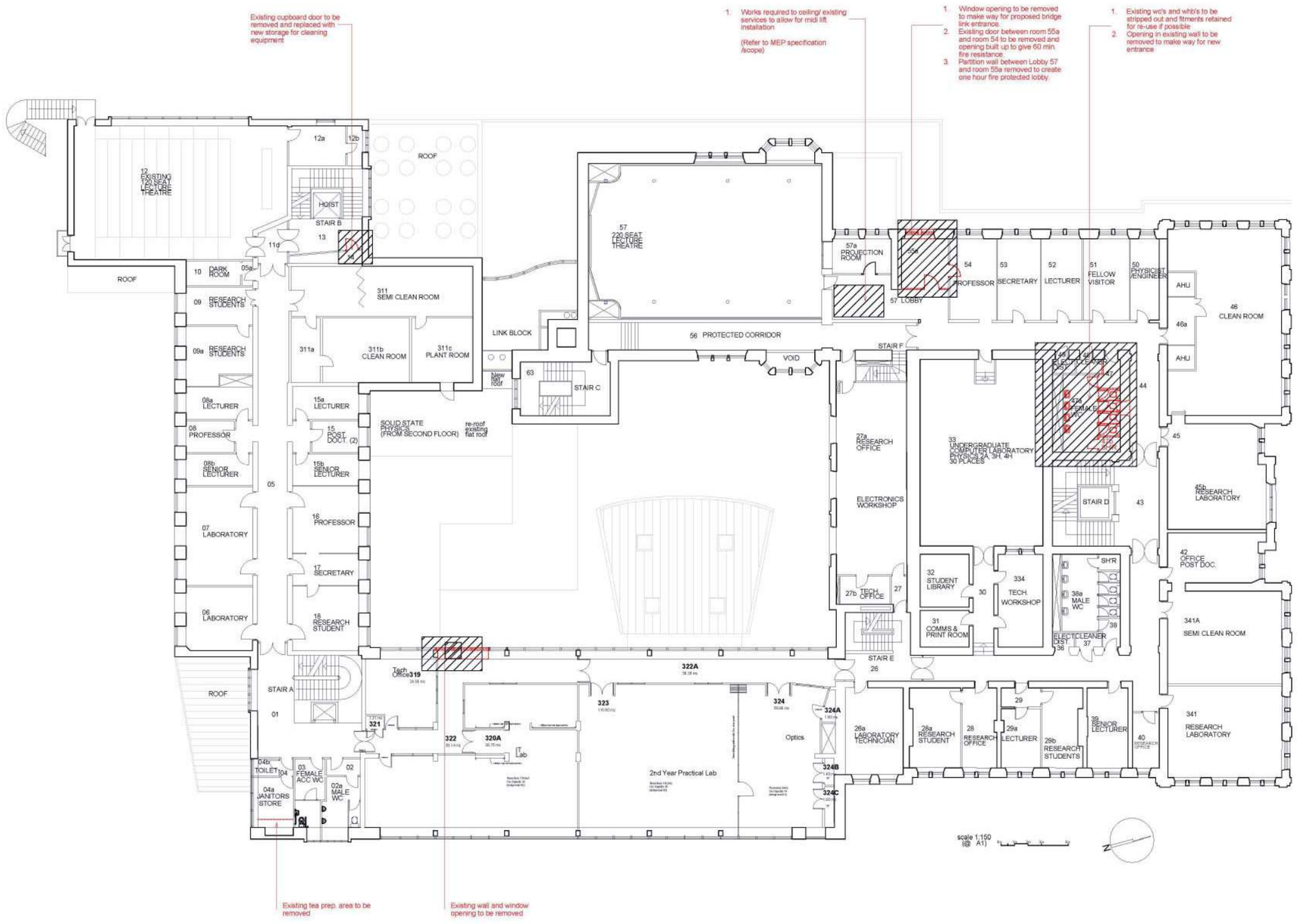
Refer to Drawing
(KEP-KB-02-DR-A-1010-0110)



3.5 Downtakings

Level 03

Refer to Drawing
(KEP-KB-03-DR-A-1010-0110)

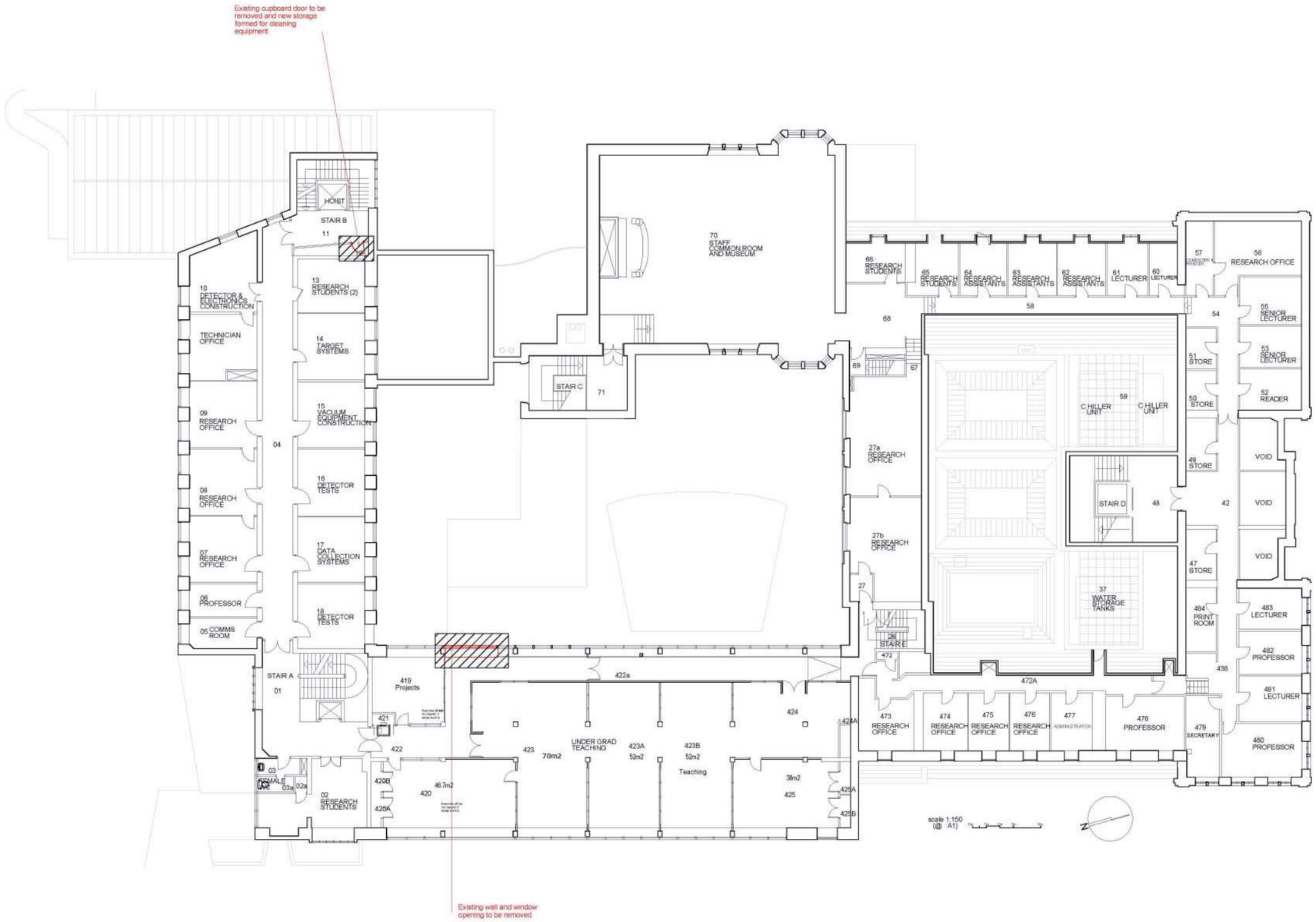


3.0 Building Strategy

3.5 Downtakings

Level 04

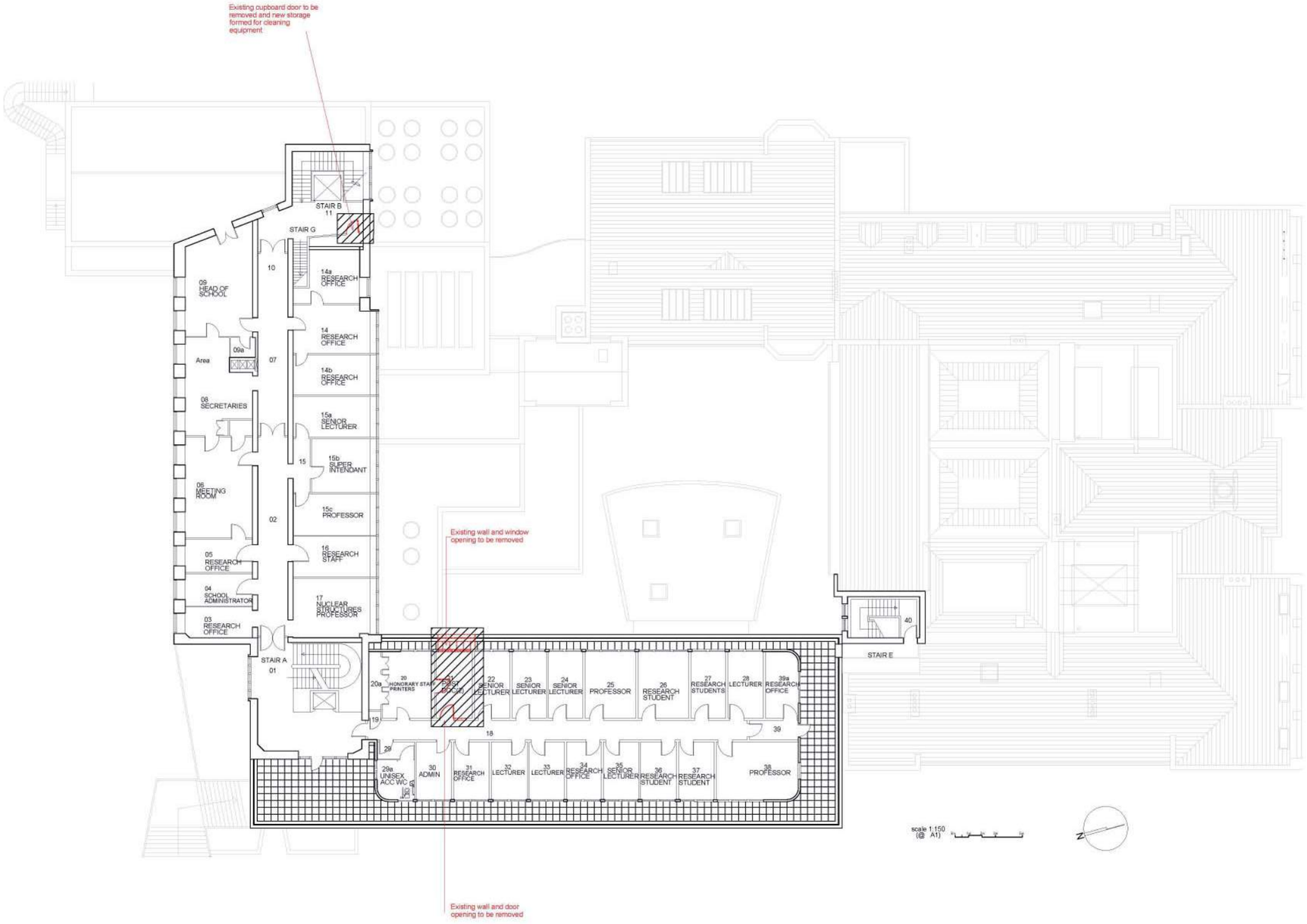
Refer to Drawing
(KEP-KB-04-DR-A-1010-0110)



3.5 Downtakings

Level 05

Refer to Drawing
(KEP-KB-05-DR-A-1010-0110)

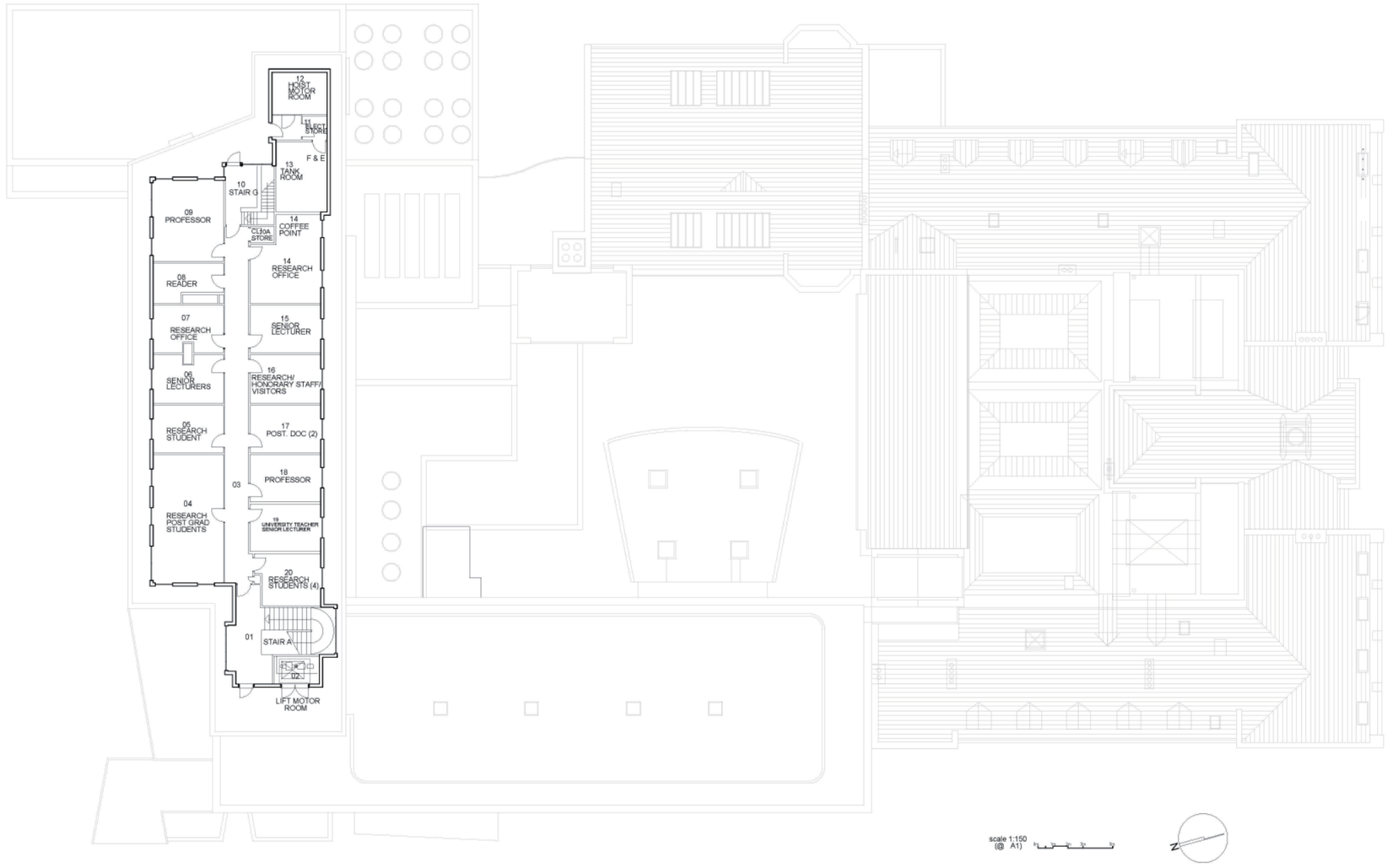


3.0 Building Strategy

3.5 Downtakings

Level 06

Refer to Drawing
(KEP-KB-06-DR-A-1010-0110)



3.6 Internal Improvements

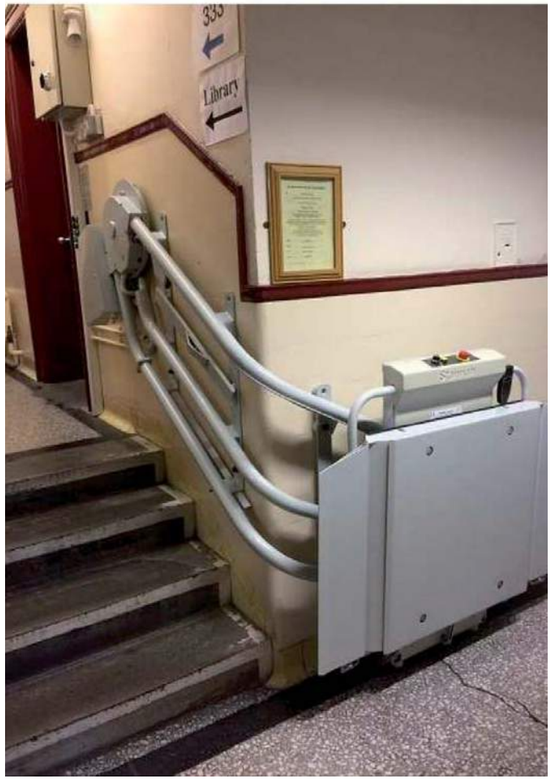
- Formation of Stair Lifts to Level 04

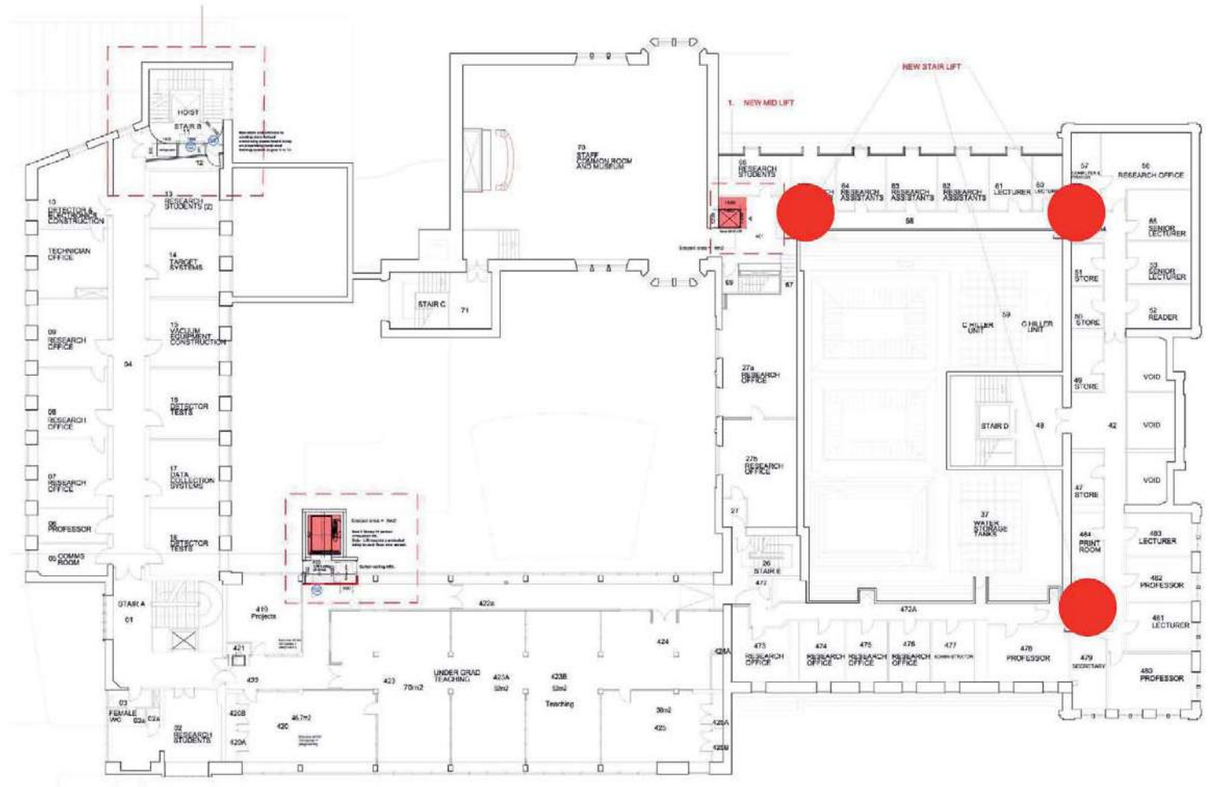
Three new stair lifts have been identified as necessary to enable Accessibility to upper level offices from Level 04

Existing / historic

Existing stairs at level 04

Vision / proposal





Proposed mid lift location

3.0 Building Strategy

3.6 Internal Improvements

- Provision of accessibile 'mid-lift ' - (level 03/04)

Installation of new mid-lift providing necessary DDA connections between level 3 and 4.

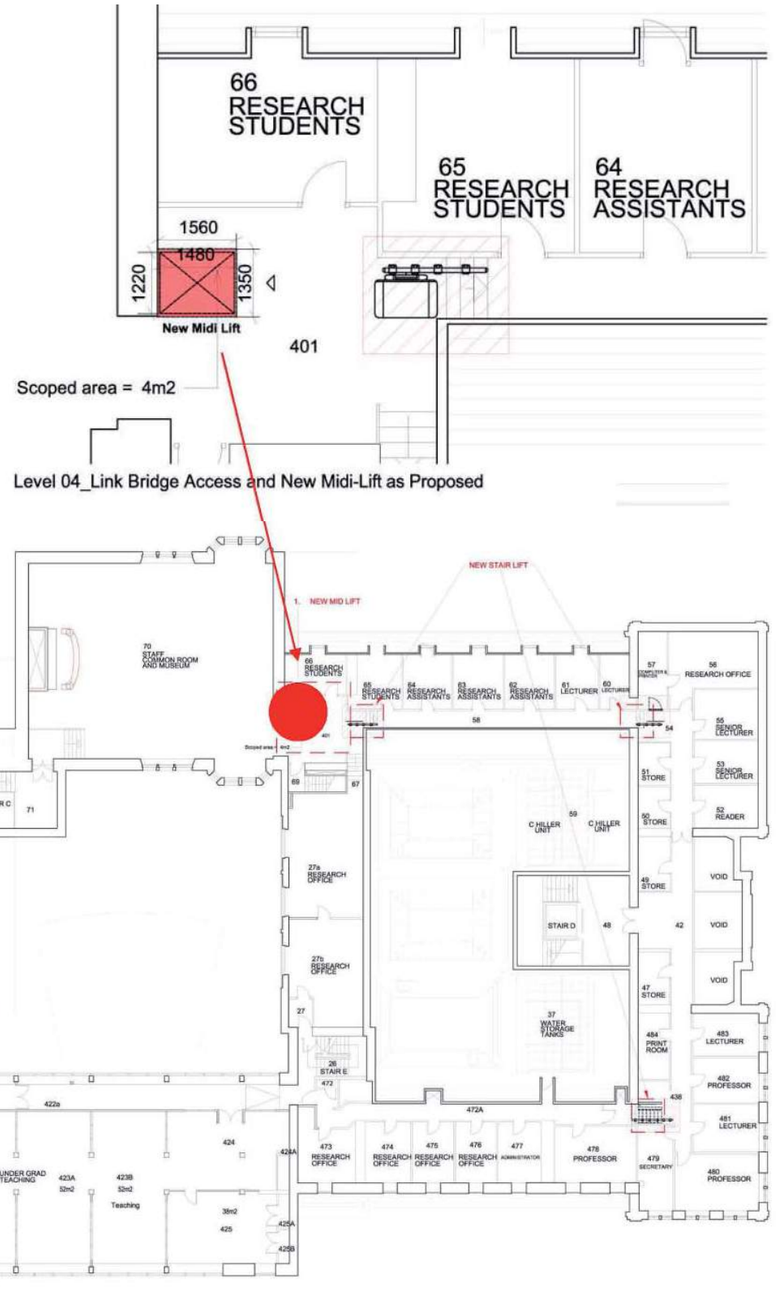
Key Works:

- Reconfiguration of projection room 57a / lobby at level 3.
- Formation of new mid-lift, providing accessible connections between level 3 / 4 (common room).
- Eco-efficient mid- lift / constant pressure.

For more information on Internal Improvements see Appendices - (4.3 - 4.5)

Existing / historic

Existing entranceinto common room (level 4)

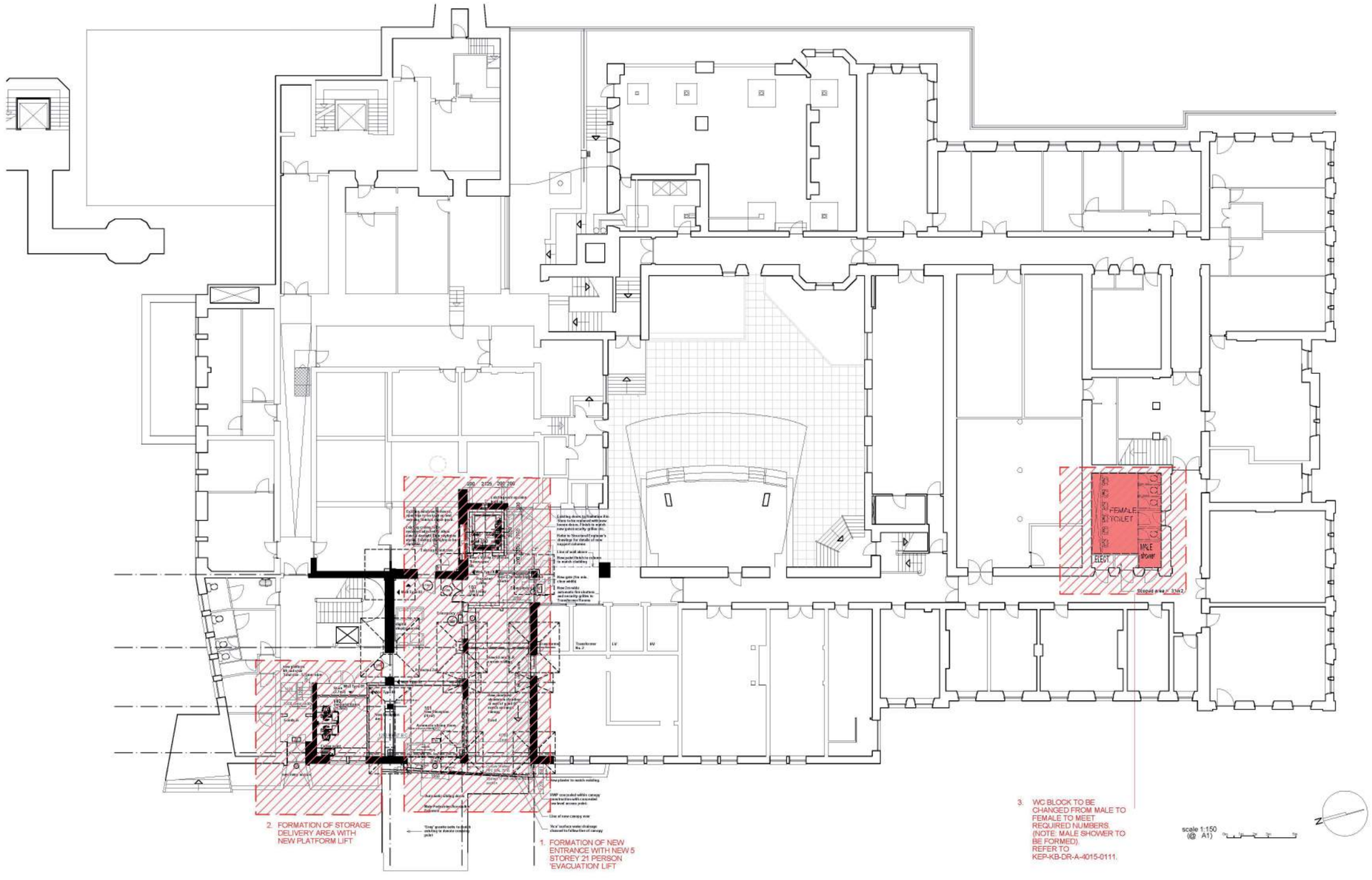


Proposed mid lift location

3.7 Building Plans

Level 01 Proposed

Refer to Drawing
(KEP-KB-01-DR-A-7060-0110)



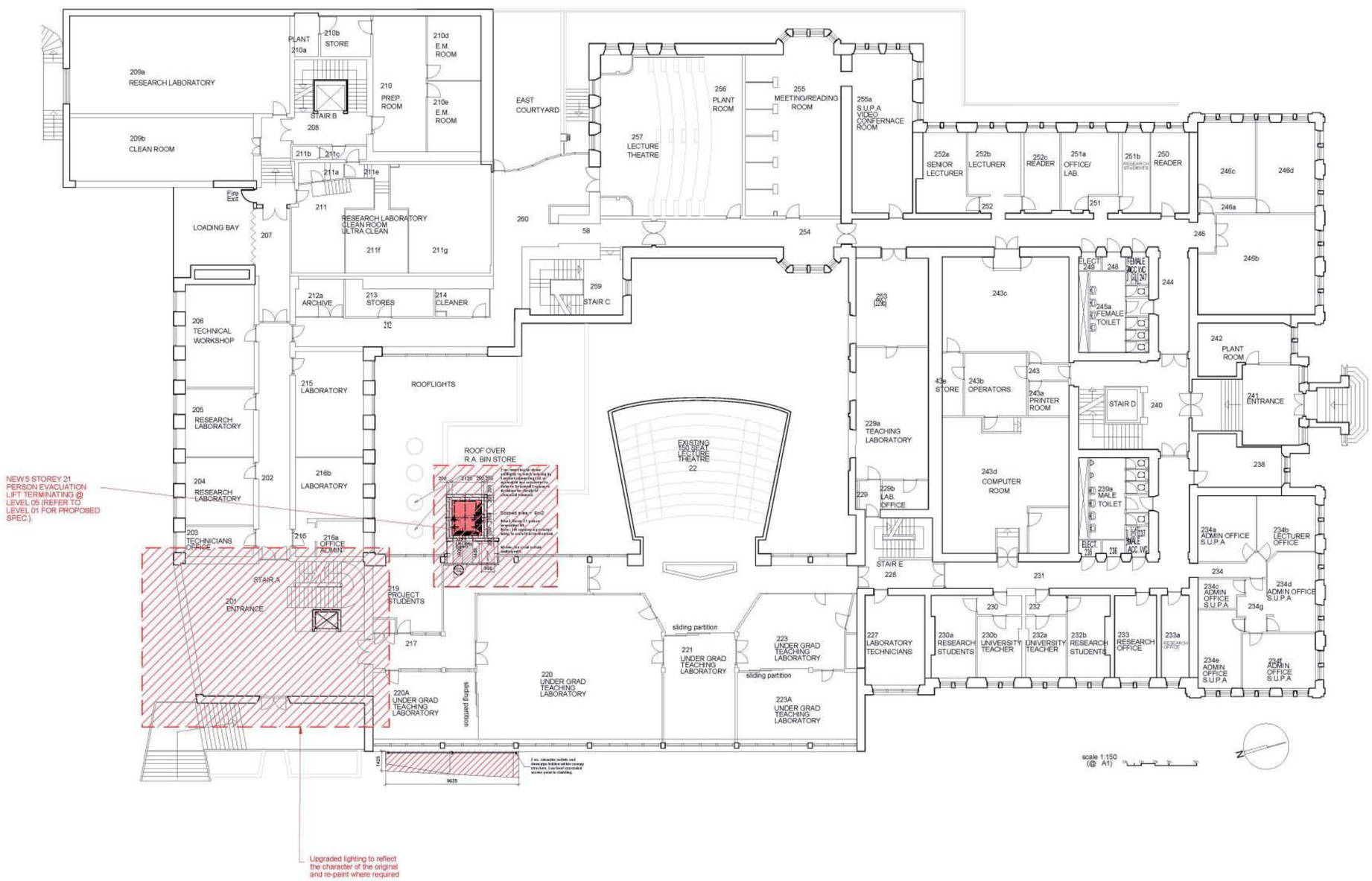
Extent of Phase 1 agreed works

3.0 Building Strategy

3.7 Building Plans

Level 02 Proposed

Refer to Drawing
(KEP-KB-02-DR-A-7060-0110)

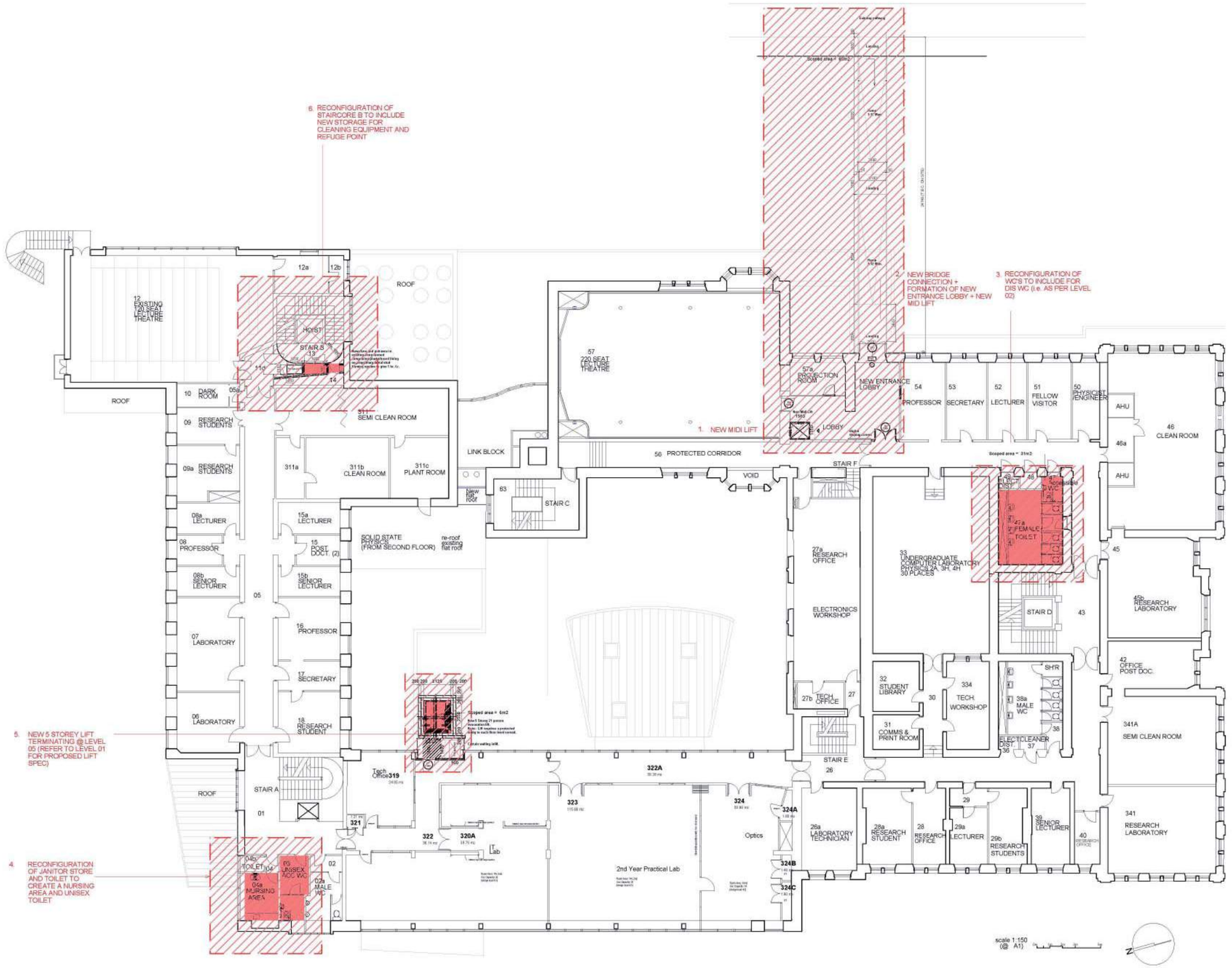


Extent of Phase 1 agreed works

3.7 Building Plans

Level 03 Proposed

Refer to Drawing
(KEP-KB-03-DR-A-7060-0110)

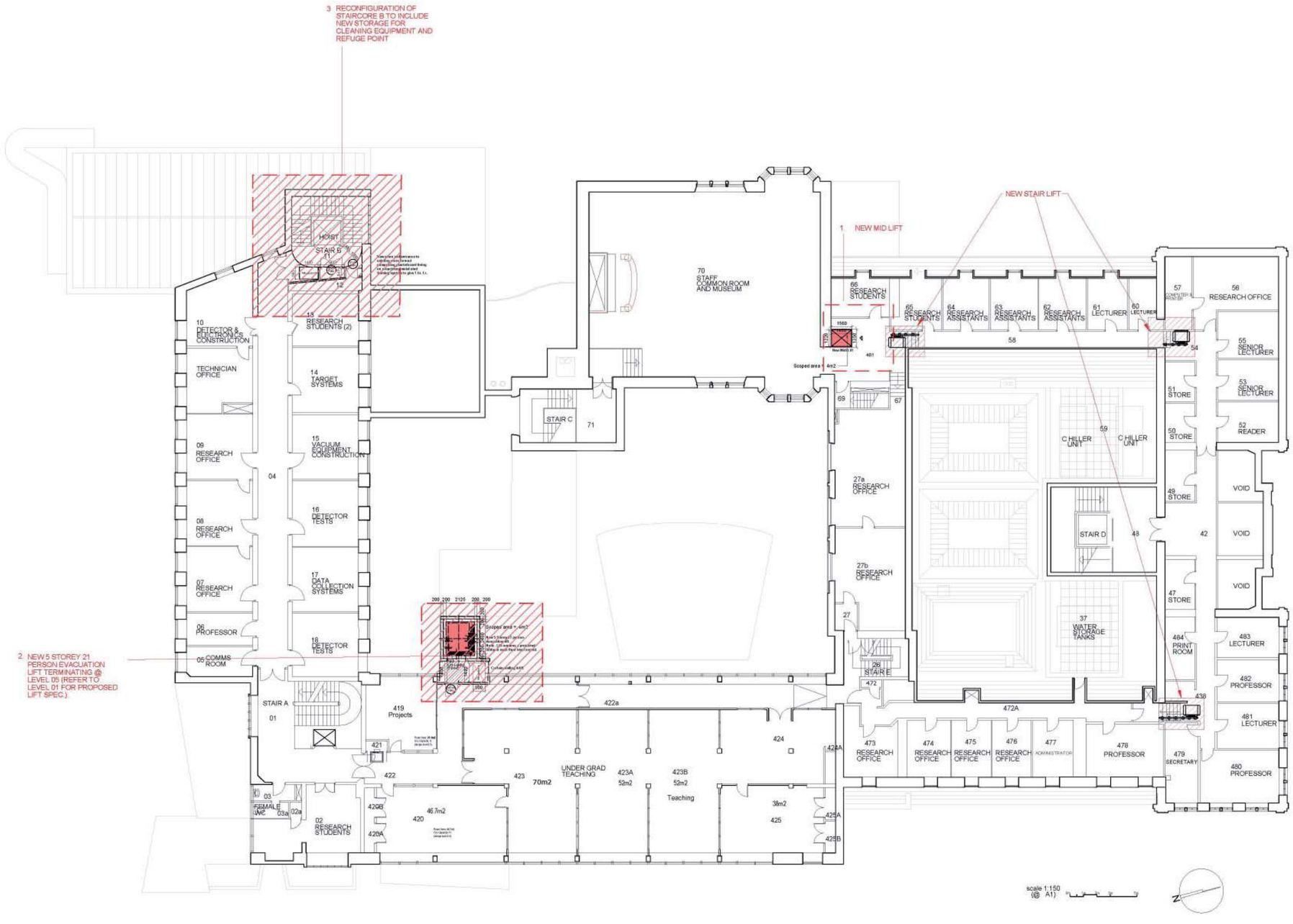


Extent of Phase 1 agreed works

3.7 Building Plans

Level 04 Proposed

Refer to Drawing
(KEP-KB-04-DR-A-7060-0110)

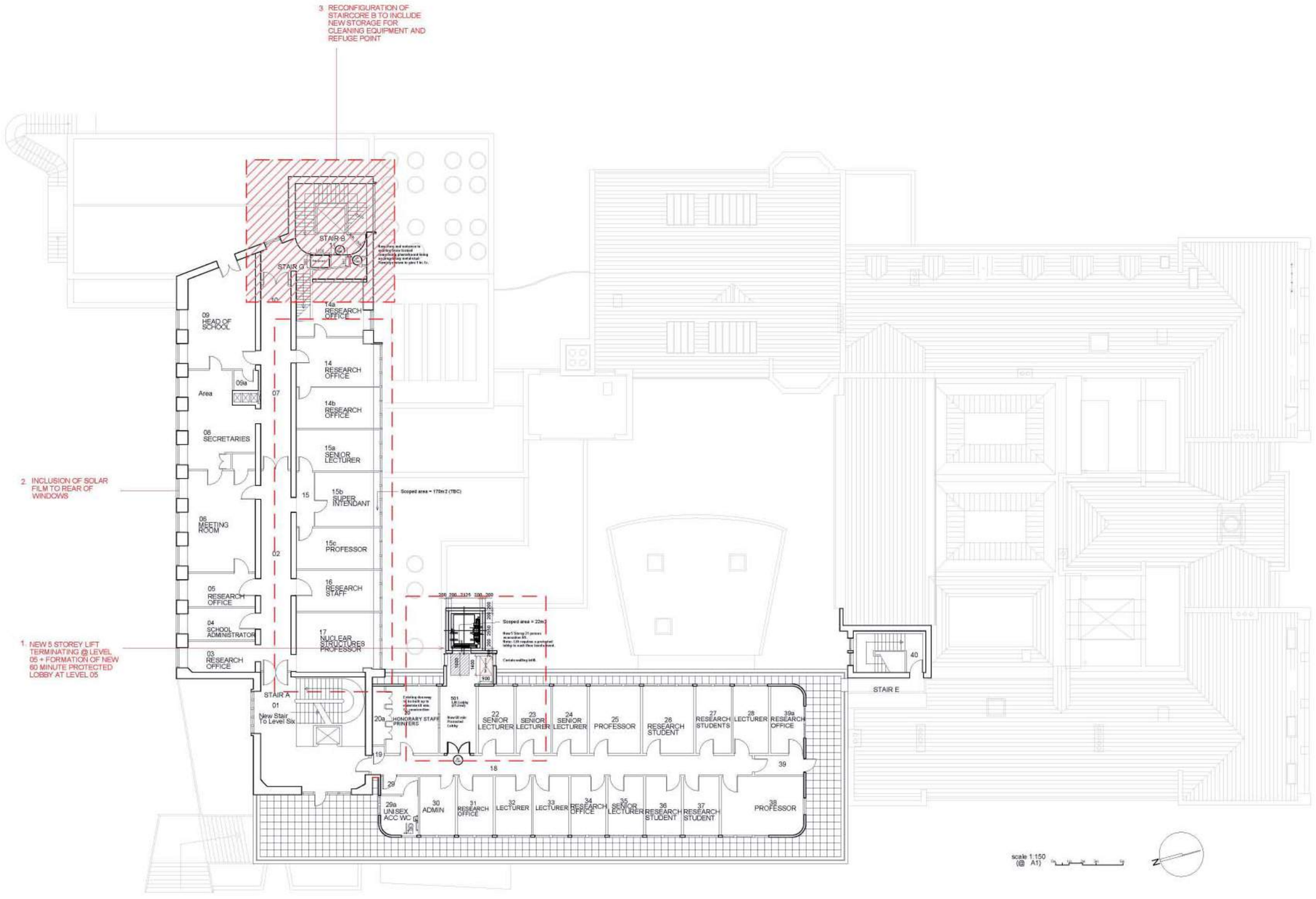


Extent of Phase 1 agreed works

3.7 Building Plans

Level 05 Proposed

Refer to Drawing
(KEP-KB-05-DR-A-7060-0110)

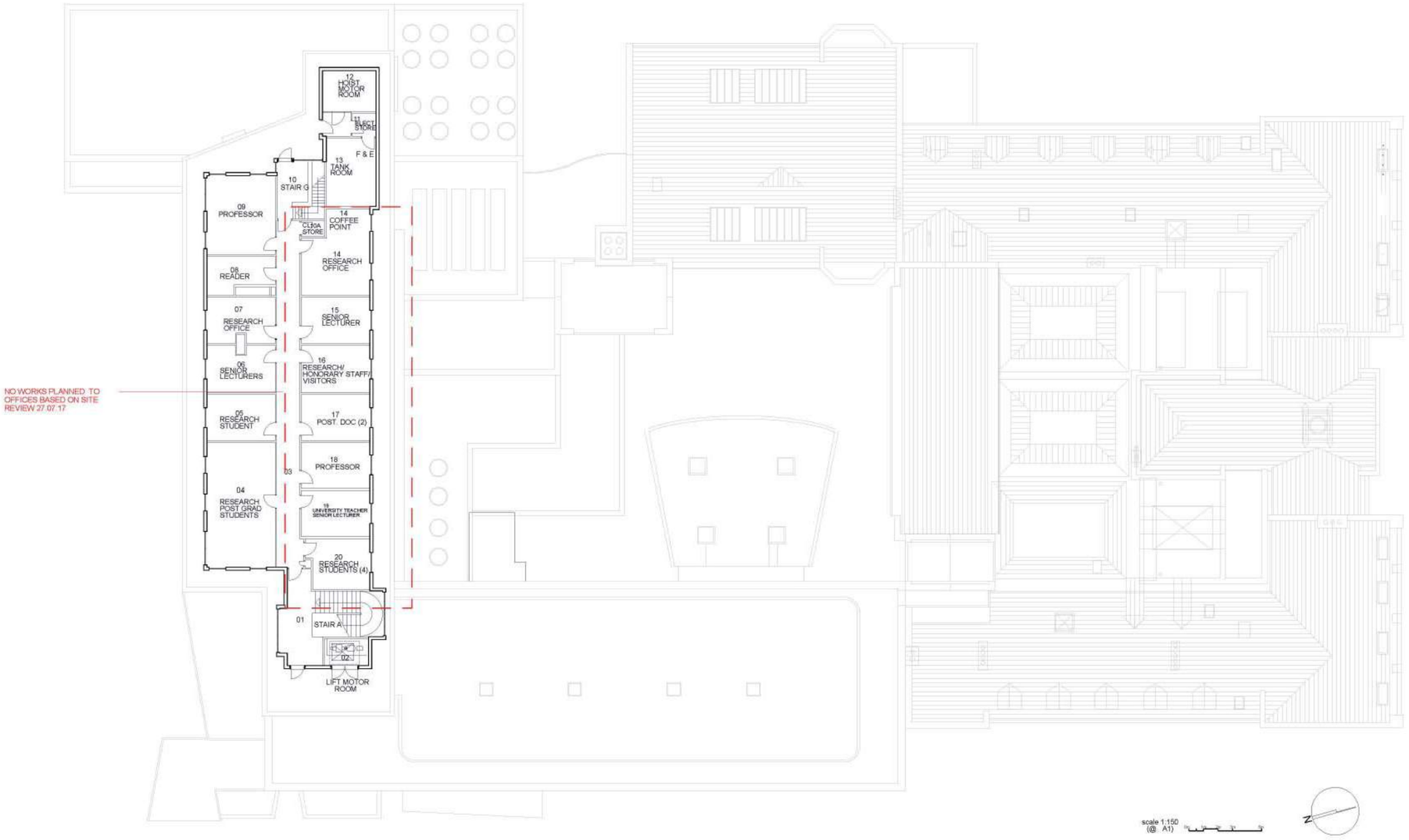


Extent of Phase 1 agreed works

3.7 Building Plans

Level 06 Proposed

Refer to Drawing
(KEP-KB-06-DR-A-7060-0110)

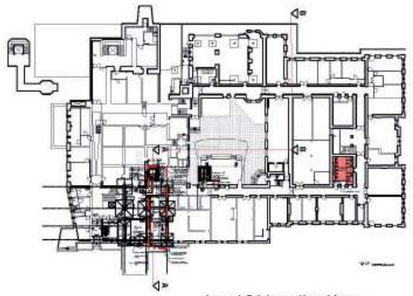


Extent of Phase 1 agreed works

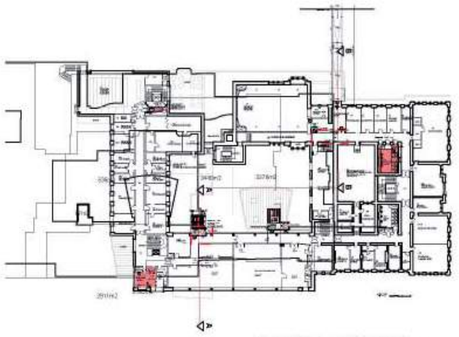
3.8 Building Sections

Section AA and BB

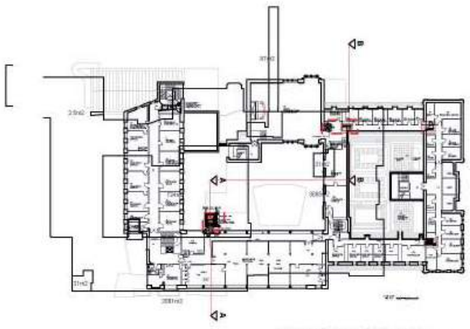
Refer to Drawing
(KEP-KB-XX-DR-A-7080-0110)



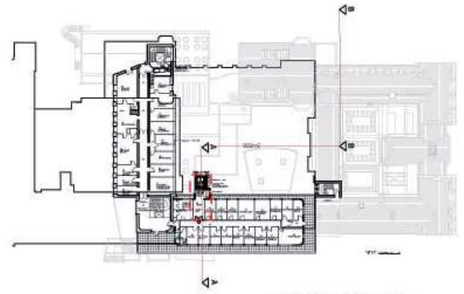
Level 01 Location Key (NTS)



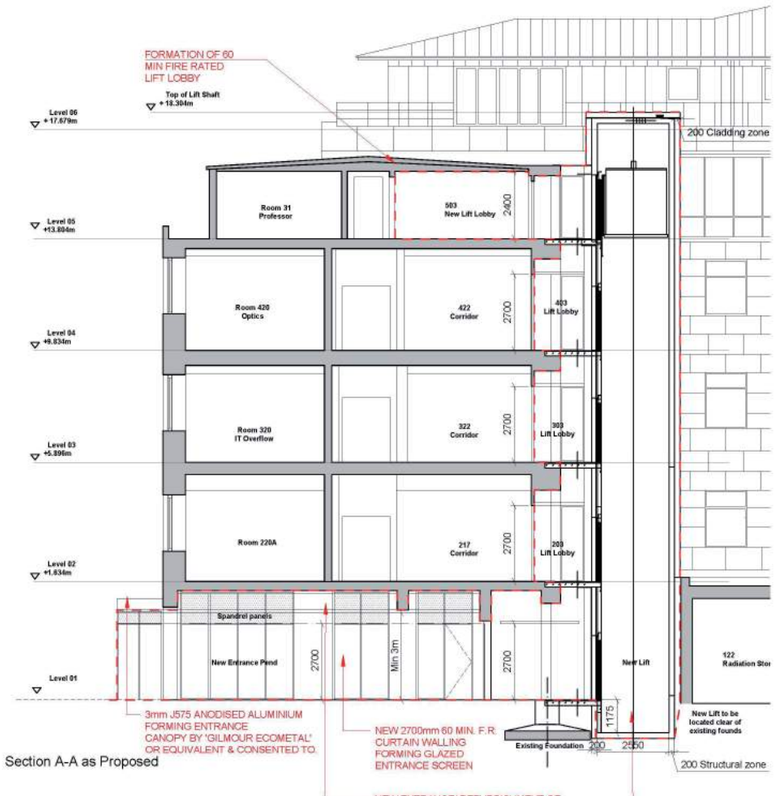
Level 03 Location Key (NTS)



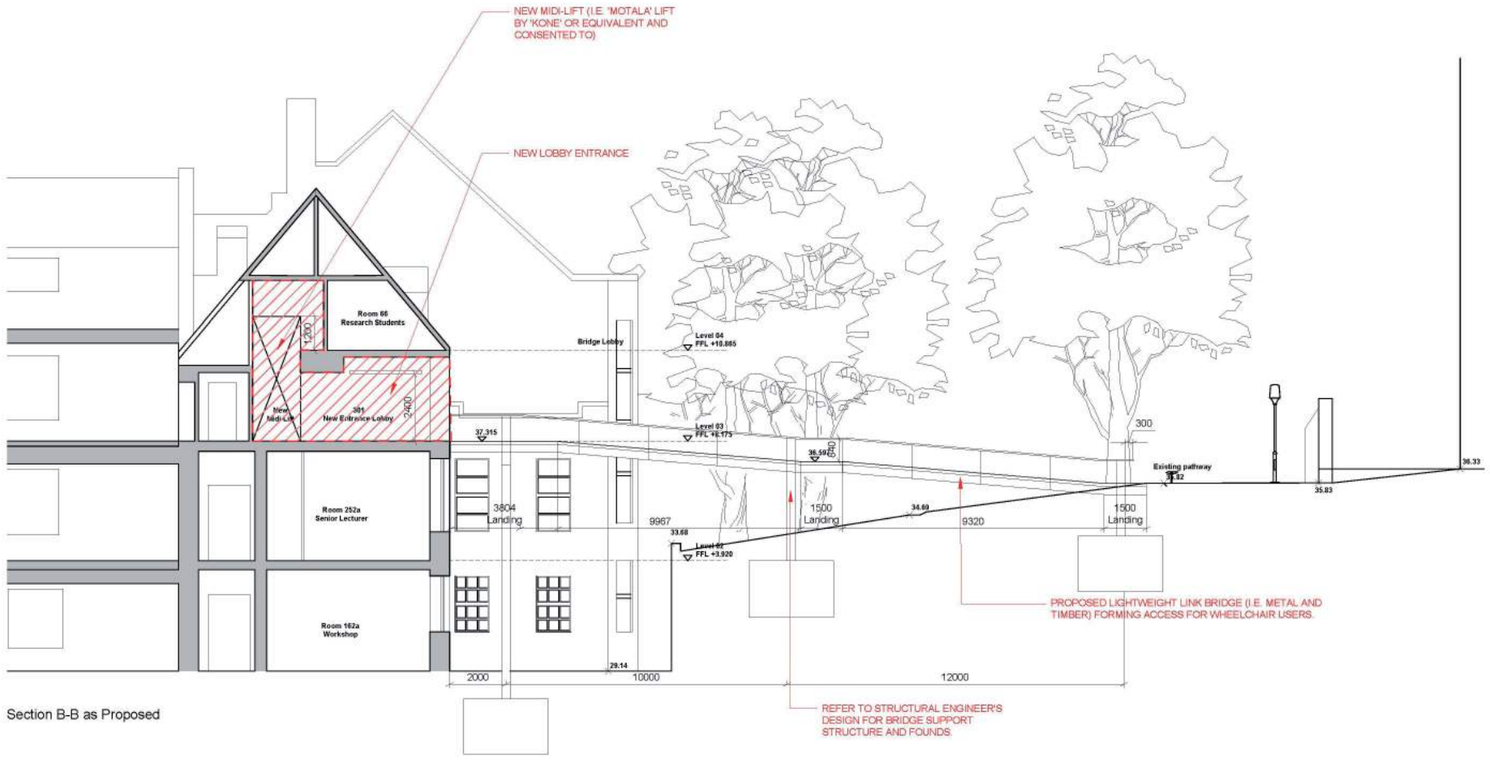
Level 04 Location Key (NTS)



Level 05 Location Key (NTS)



Section A-A as Proposed



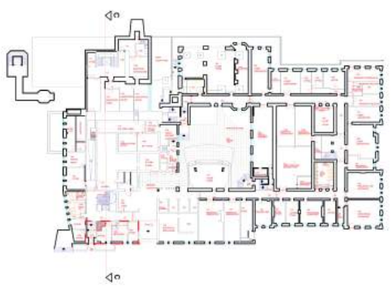
Section B-B as Proposed

3.8 Building Sections

Section CC

Refer to Drawing
(KEP-KB-XX-DR-A-7080-0111)

Section C-C as Proposed

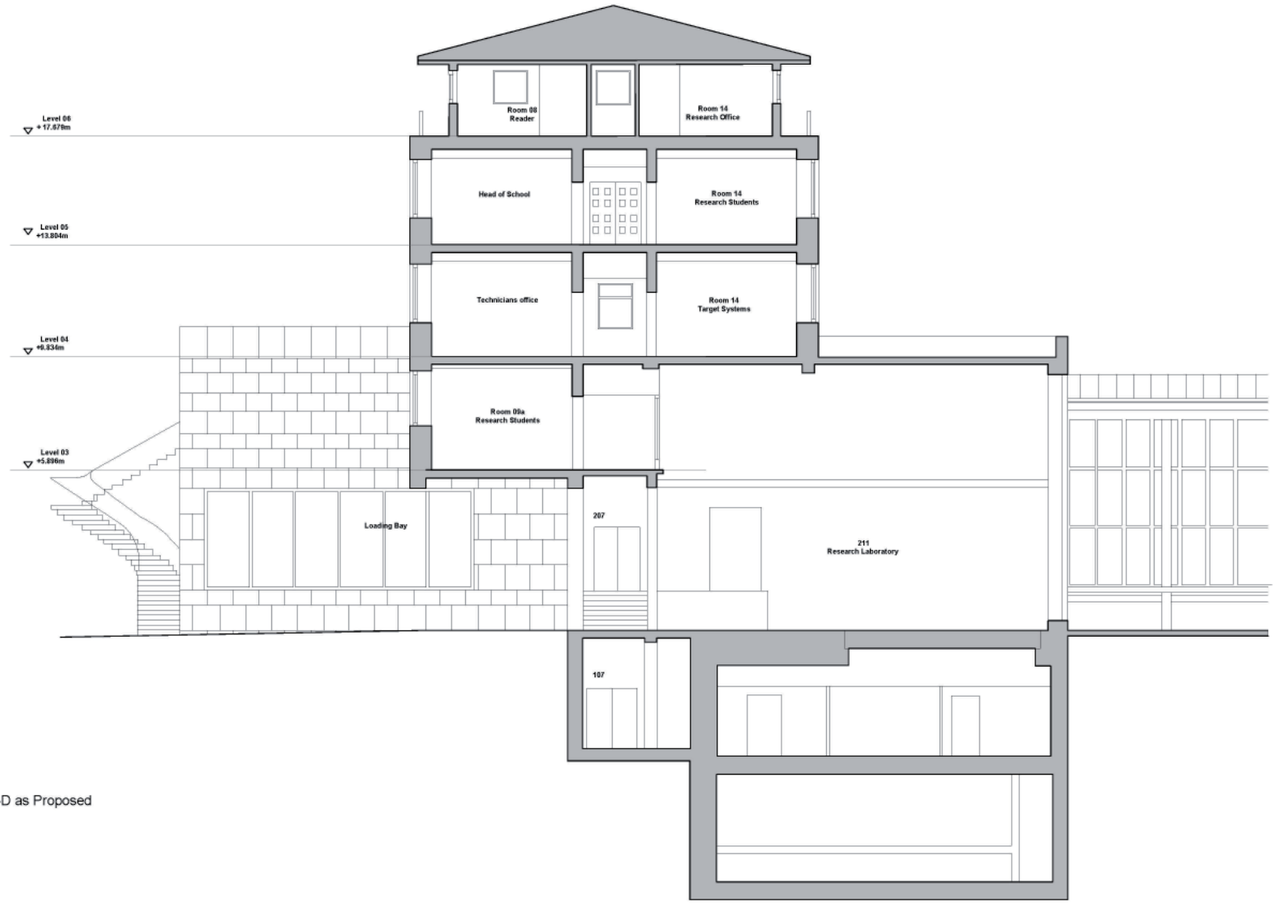


Level 01 Location Key (NTS)

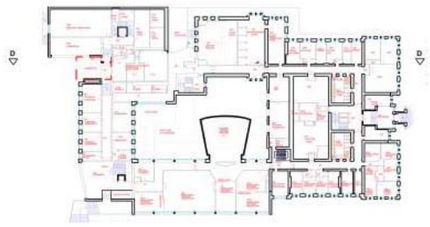
3.8 Building Sections

Section DD
Loading Bay Accommodation

Refer to Drawing
(KEP-KB-XX-DR-A-7080-0112)



Section D-D as Proposed
1:100 @ A1



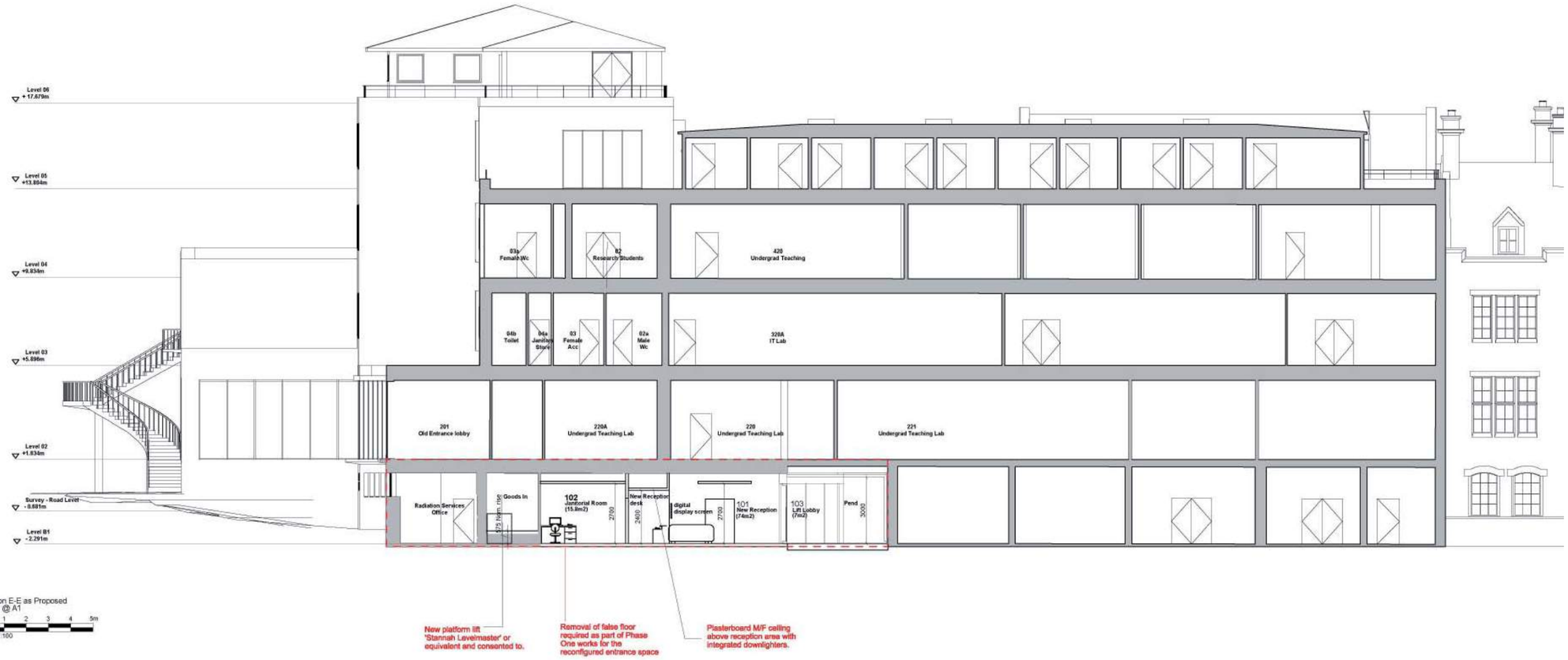
Level 02 Location Key (NTS)

3.0 Building Strategy

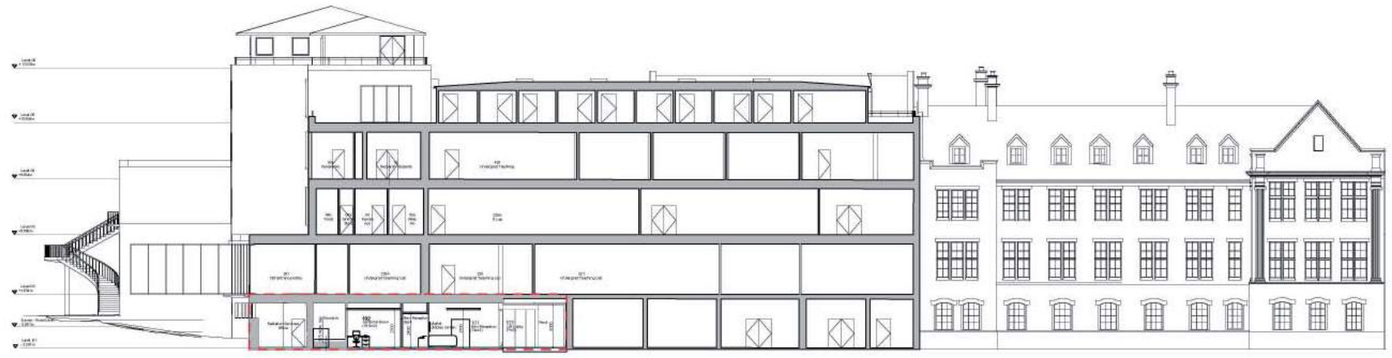
3.8 Building Sections

Section EE
New Entrance and Janatorial Store

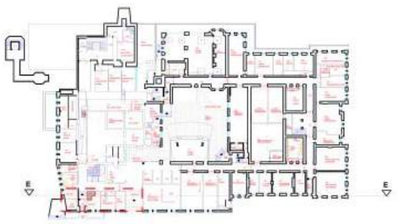
Refer to Drawing
(KEP-KB-XX-DR-A-7080-0113)



Section E-E as Proposed
1:100 @ A1
0 1 2 3 4 5m
Scale1:100



Section E-E as Entire
1:200 @ A1



Level 01 Location Key (NTS)

3.9 Building Elevations

North Elevation
New Office Accommodation in
Loading Bay

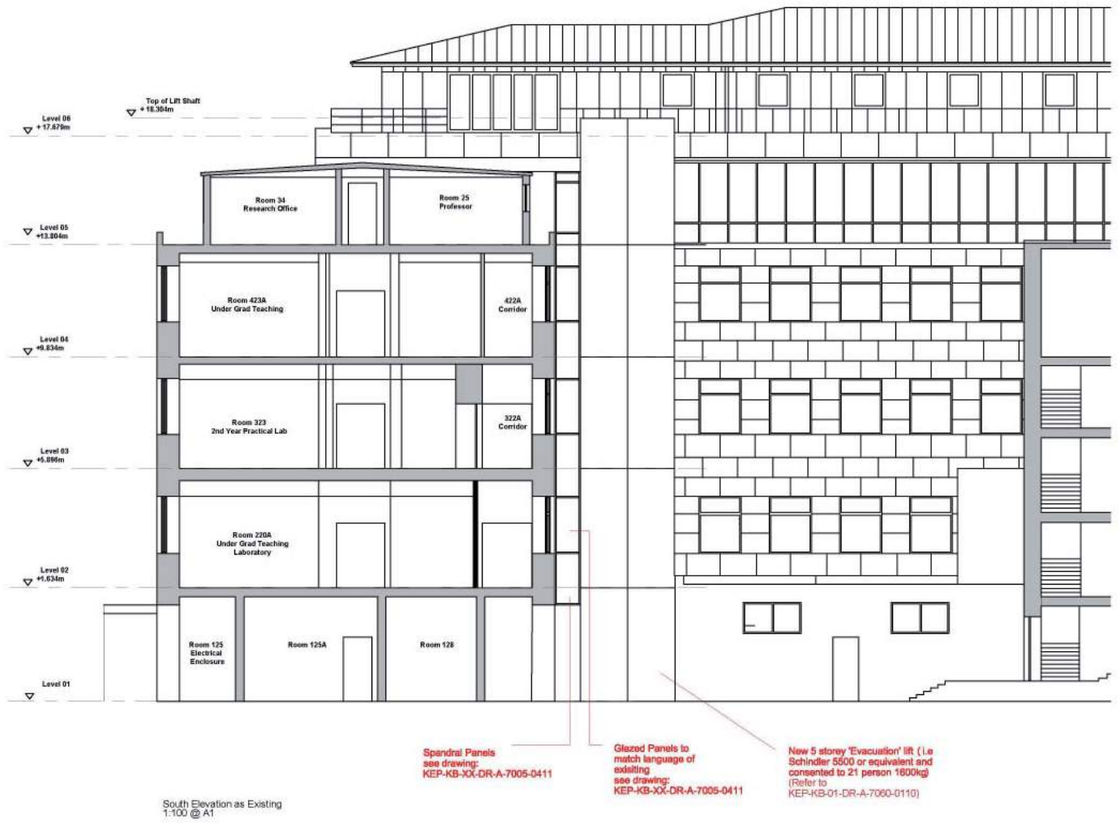
Refer to Drawing
(KEP-KB-XX-DR-A-7030-0110)

North Elevation as Proposed
1:100 @ A1

3.9 Building Elevations

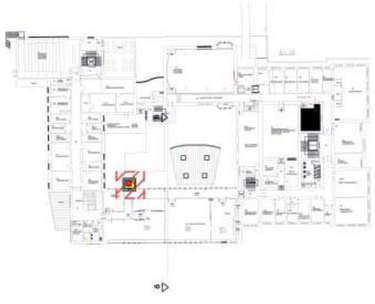
South Elevation
Courtyard Elevation with New Lift

Refer to Drawing
(KEP-KB-XX-DR-A-7080-0113)



South Elevation as Existing
1:100 @ A1

Proposed Internal Courtyard Lift Visual

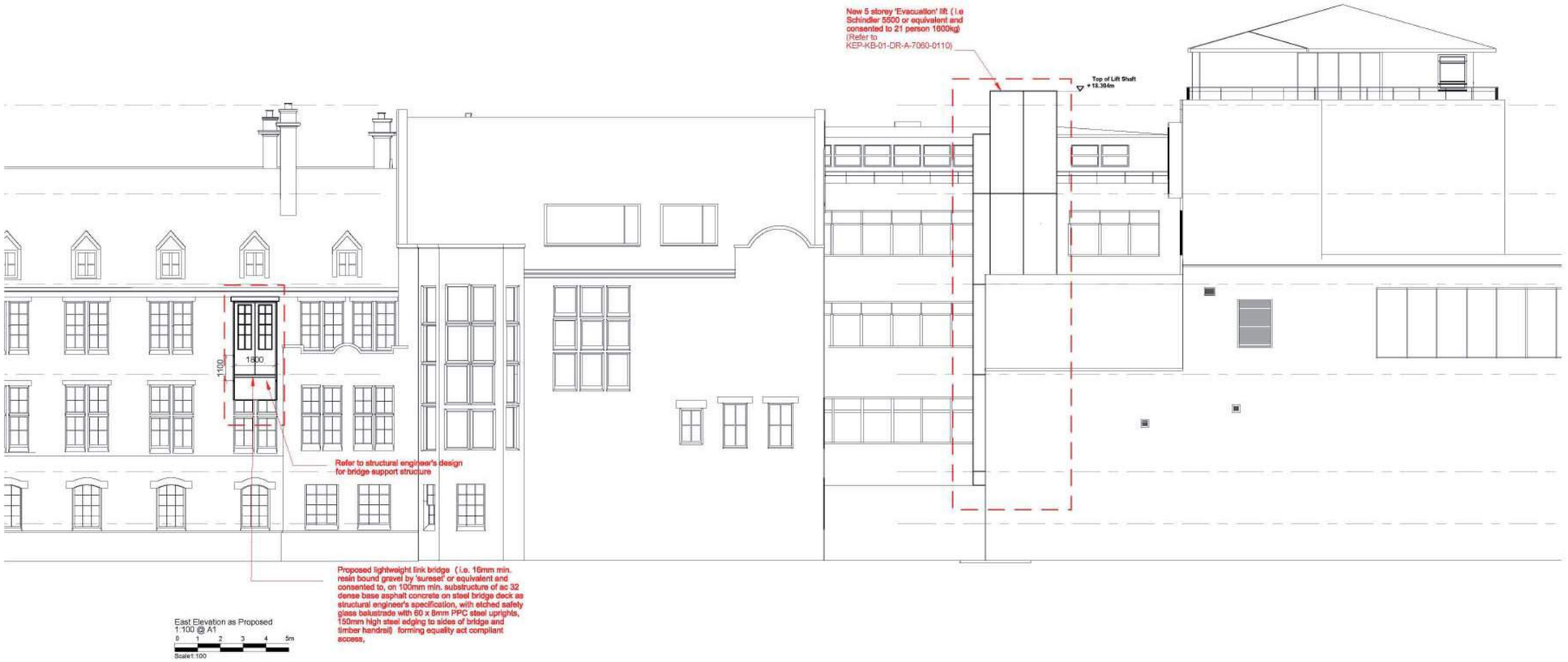


Level 01 Location Key (NTS)

3.9 Building Elevations

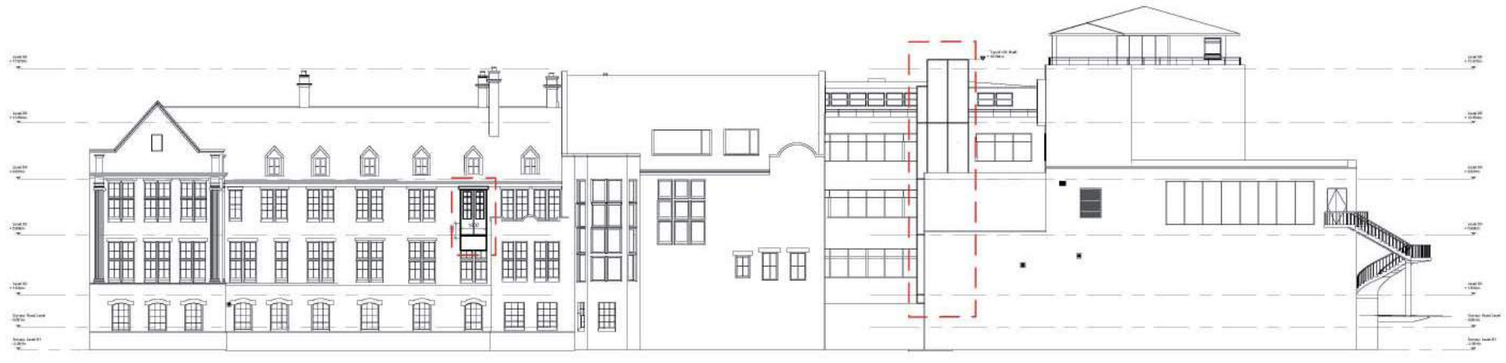
East Elevation

Refer to Drawing
(KEP-KB-XX-DR-A-7030-0111)
(KEP-KB-XX-DR-A-7080-0110)



East Elevation as Proposed
1:100 @ A1
0 1 2 3 4 5m
Scale1:100

Proposed Bridge Link Visual

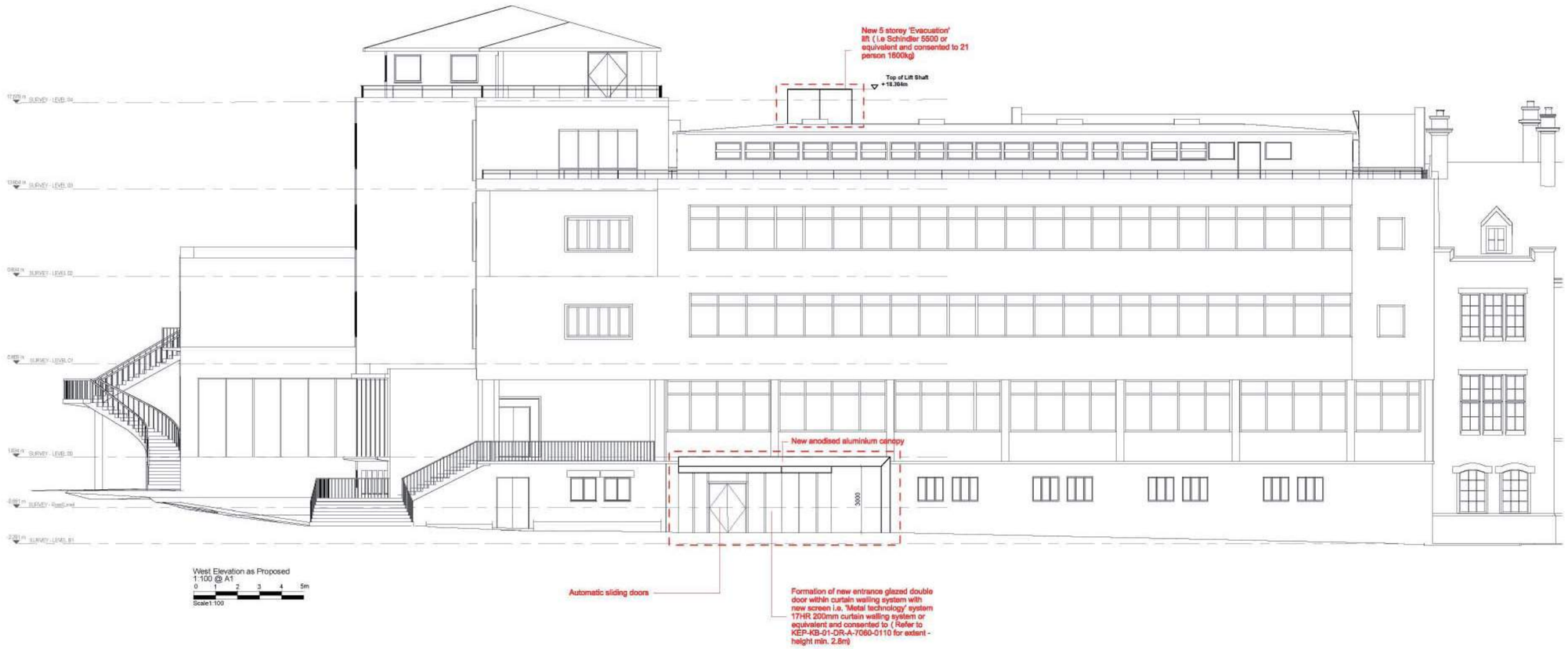


East Elevation as Entire
1:200 @ A1

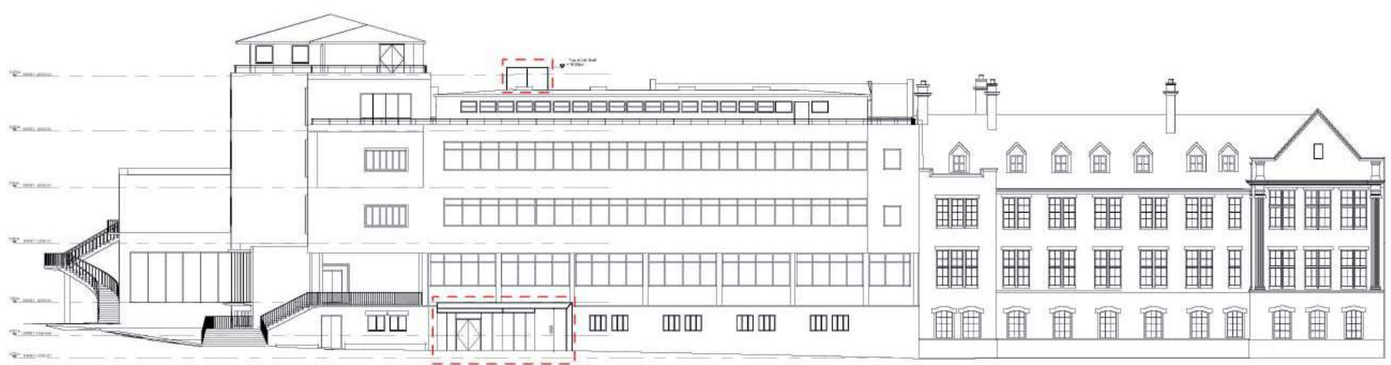
3.9 Building Elevations

West Elevation
New Entrance and Lobby and Lift Shaft

Refer to Drawing
(KEP-KB-XX-DR-A-7030-0112)



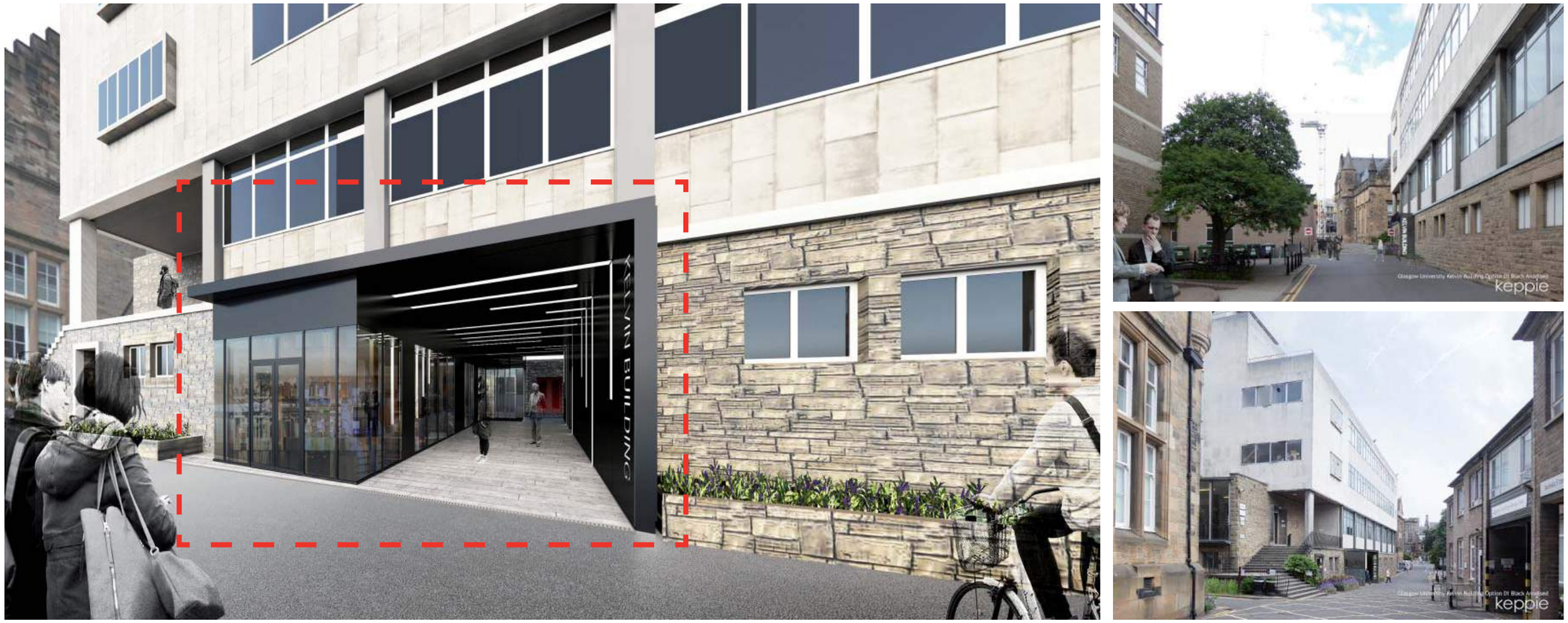
Proposed Main Entrance Visual



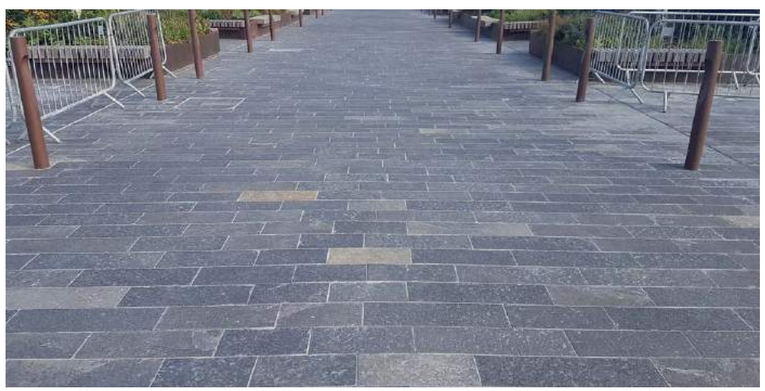
3.10 Material Palette

Main Entrance

- Anodised aluminium cladding to be used on proposed main entrance and internal courtyard lift with curtain walling system
- Caithness Stone to be used at new main entrance



Main Entrance Visual



Grey Caithness Stone Paving for Main Entrance

Black Anodized Aluminium Panels

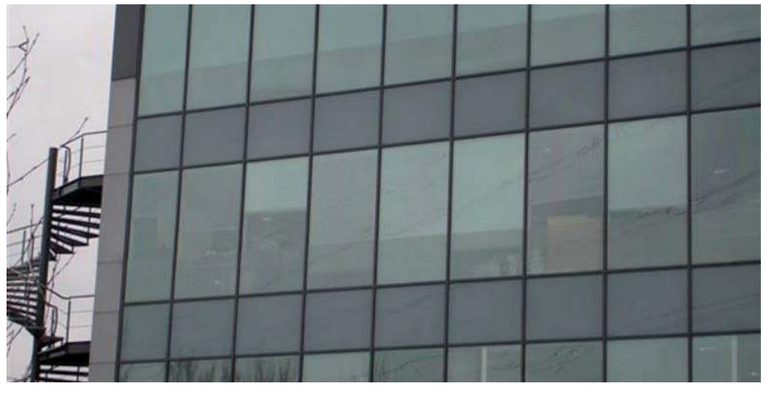
Anodised Aluminium Panel

3.10 Material Palette

Courtyard Lift

- Glazing and Spandral Panels used on new internal courtyard lift
- Anodised aluminium cladding to be used on proposed main entrance and internal courtyard lift with curtain walling system

Internal Courtyard Lift Visual



Spandral Panels on Internal Courtyard Lift

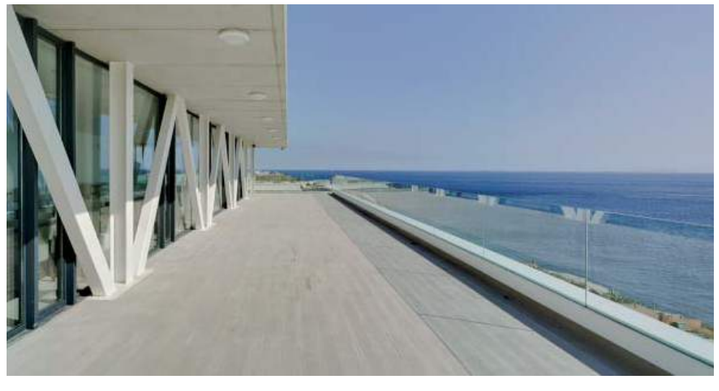
Anodised Aluminium Panel

3.10 Material Palette

Link Bridge

- Glazed Balustrade
- Concealed lighting with timber handrail

Link Bridge Visual



Glazed Balustrades

Example of concealed lighting with handrail

Potential glazed balustrade detailing

3.0 Building Strategy

3.11 Landscaping

3.11.1 Introduction

The University of Glasgow (UoG) commissioned the AECOM landscape team to support the planning consents process for the proposed pedestrian bridge access to the east elevation of the James Miller building, Glasgow University.

The following landscape report/ proposals are in response to the planning letter received 27th April, following the Pre Application meeting dated 23rd March.

Planning comment (Pre Application enquiry letter dated 27th April)

Bridge Access to east elevation of James Miller building:

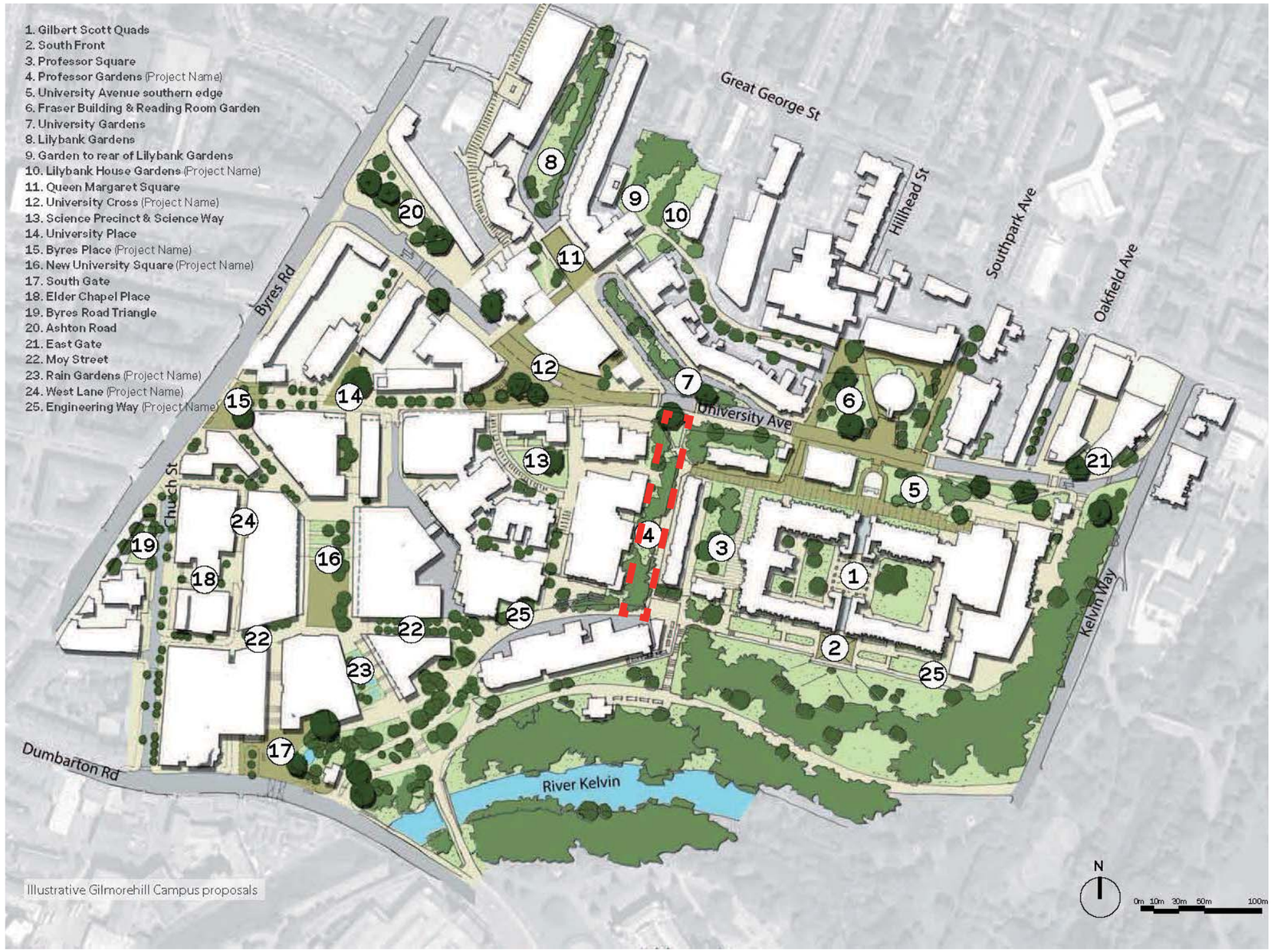
As previously stated, there are concerns with respect to this element of the proposal in terms of the listed building and more particularly the **garden setting**. While this work would have a direct physical impact on the James Miller building, it would have a greater visual impact on the linear character of the garden, its relationship with the James Miller building and the rear of the Professor's Square terrace. It is considered that the proposed bridge will be **intrusive in the space**, will interfere with sightlines through the space, and oblique views of the listed building. This is observed as being a quiet landscaped place within the campus, where people can revise, relax etc. and the trees, both old and new add greatly the character of the space. The continuity of the lines in the space, especially north south, are what gives it its character and it may be considered that such a structure would compromise this. A tree survey of the area allowing for the ramp, the method and machinery to install, site access etc. would be required. This should include an assessment of impacts on all of the trees in the area, and any reinstatement or replanting that would be required. Loss of the major trees may not be acceptable.
As discussed on site, it is considered that the impact of this proposal may be reduced if the bridge entered the window below the one proposed, but we understand this is unlikely to work internally. If this aspect of the proposal is taken forward, HES suggest that **painted iron railings** rather than a glass balustrade would fit more comfortably with the established aesthetic of the building.

Response/ Proposals

The University, having reviewed the planning comments/ concerns in detail, are currently wishing to proceed with the inclusion of the Bridge as part of phase 1 works. As such Aecom landscape have reviewed the current design and believe that the following proposals acknowledge the significance of Professor Gardens landscape setting whilst serving to enhance the overall design.

Key Views

1. **Garden Setting**
2. **Impact**
3. **Treatment**



Wider Masterplan

3.11 Landscaping

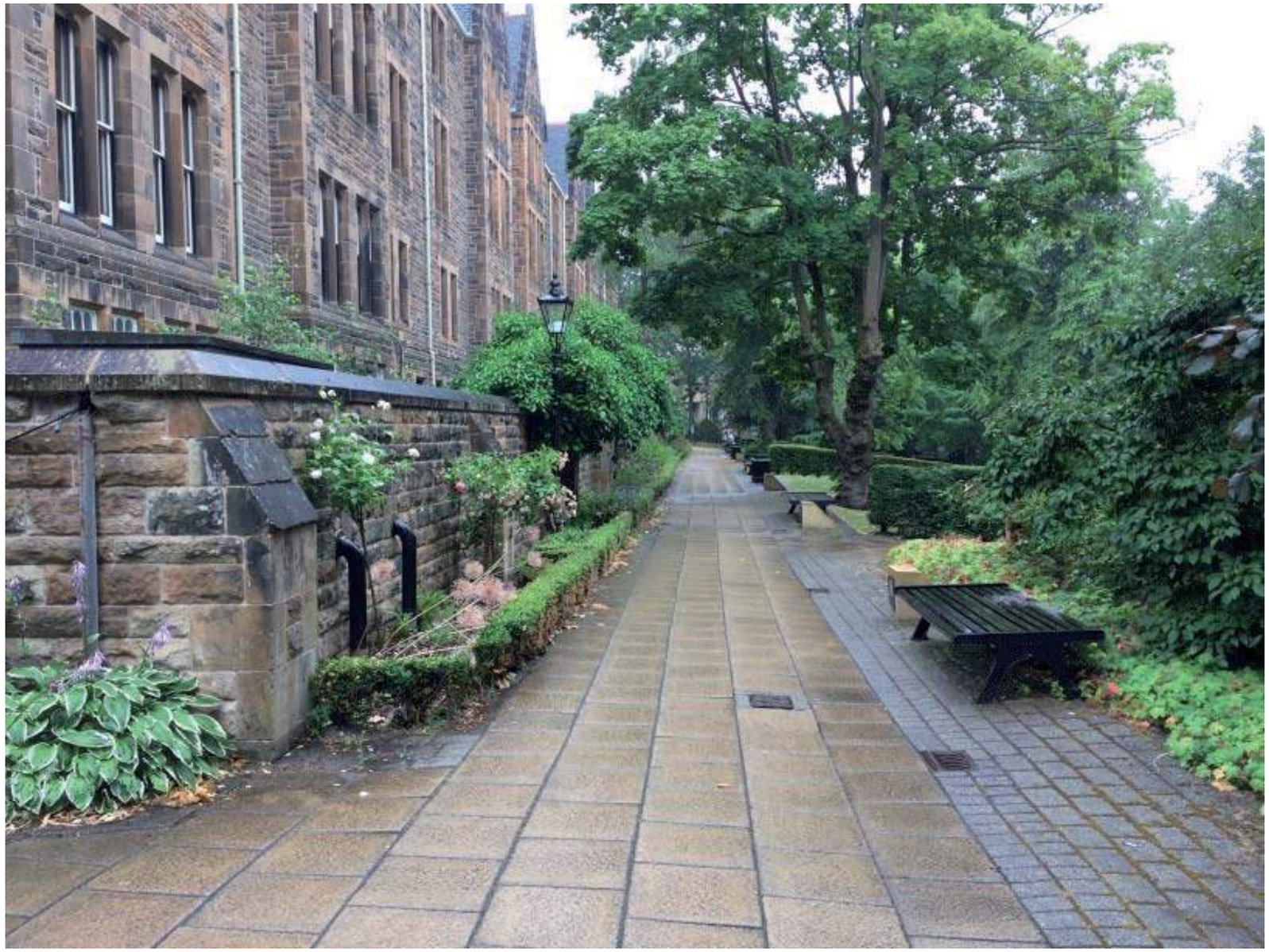
3.11.2 Garden Setting

To date there have been several documents and reports produced in relation to the proposed bridge link to the James Miller building and the Professor Gardens. These reports highlight the importance of the Professor Gardens and their relationship to the listed buildings and includes the following:

- Gilmorehill Campus Masterplan – Public Realm & Landscape Strategy, May 2016, AECOM.
- University of Glasgow: Kelvin Building - Heritage Statement February 2018, Simpson & Brown

The Public Realm & Landscape Strategy report by AECOM identifies and comments on the space specifically:

- Passing through and meeting space
- Maintain mature and historic character with emphasis on soft landscape and trees
- Provide clear routes for pedestrians and cyclists using sympathetic materials continuous through landscape corridor
- Reflect on local vernacular materials, historic elements and key views
- Opportunity to introduce additional flower rich planting.



Key pedestrian route through between Kelvin and Stair Building as existing

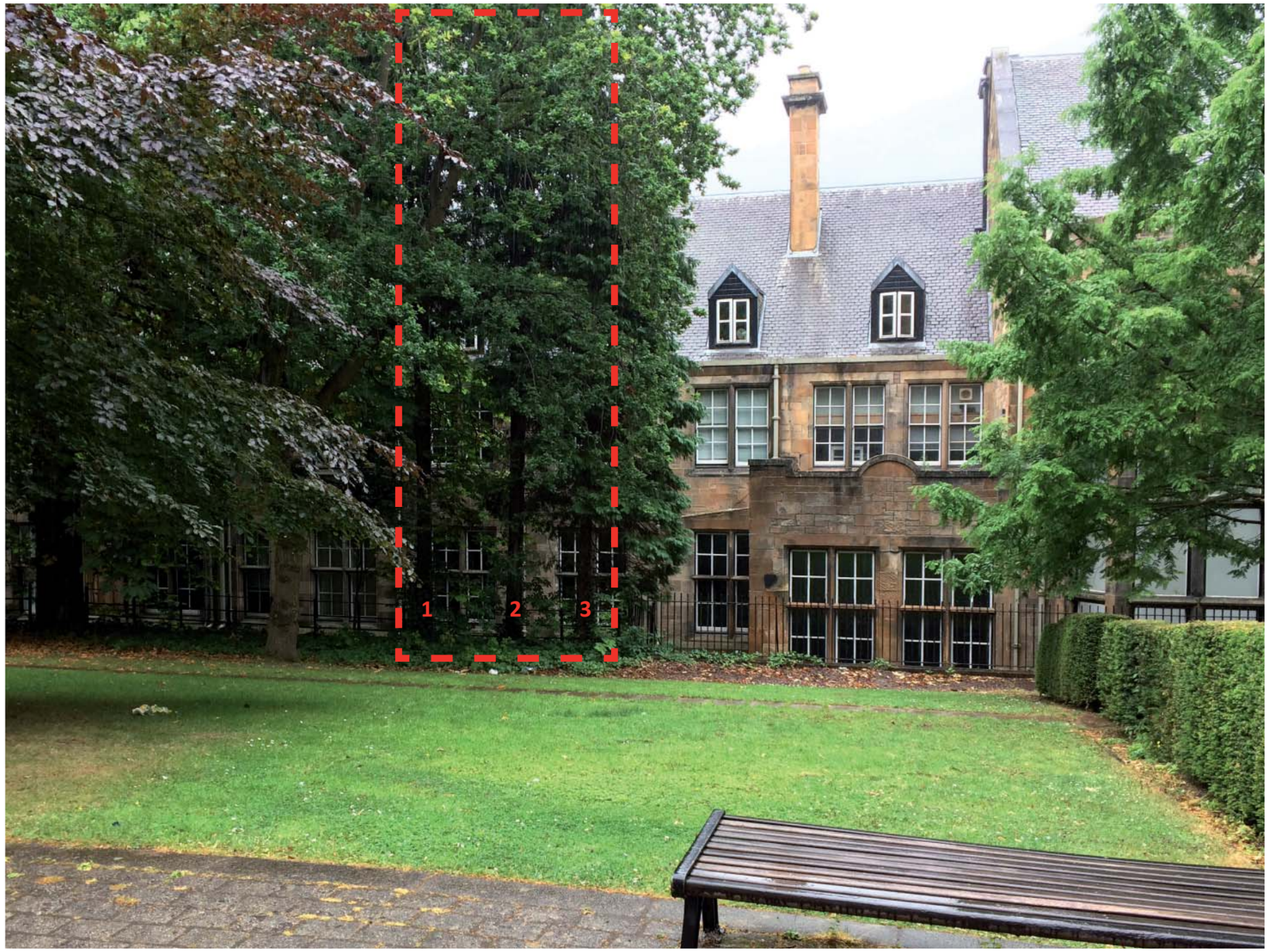
3.0 Building Strategy

3.11 Landscaping

3.11.2 Existing Setting

Existing Trees & Vegetation

- The tree survey carried out by Angus Mackay Landscape Consultants in November 2017 identified the 3no. Lawson Cypress (Chamaecyparis Lawsoniana) as **low wildlife potential**
- From a landscape architecture perspective we would recommend that these trees should be **removed** due to their location within the retaining wall embankment and the screening of daylight to the Kelvin building on the East elevation.
- From an aesthetic and management point of view we feel that the trees within the Professors Garden should be **crown lifted** to encourage more light at the lower levels but also help provide daylight to the building facades.
- During our research we identified that none of the trees within the Professors Garden are protected by a Tree Preservation Order nor does the site sit within a Conservation Area.



3no Lawson Cypress low wildlife potential to be removed

3.11 Landscaping

3.11.3 Heritage Statement

John Sanders authored the Kelvin Building – Heritage Statement, February 2018 and provided the following statement on the heritage setting of the Professors Garden area and the bridge proposal which has helped inform the landscape integration of the bridge design.

"The history of the area between the Kelvin Building and Professor's Square was originally a wooded slope. The area was defined simply by the area left between George Gilbert Scott's design for the professor's houses and the foot of the bank, beyond which were university playing fields. This land was presumably considered to be too steep to build on conveniently when other land was available. It would not have been expected that further buildings would be constructed on this bank, close to the professor's houses. This **leftover space** was planted with some trees presumably to respond to the overall parkland setting of the university buildings but also to provide some **screening** between the sports pitches and the professor's houses. The line of the edge of the sports pitches, at the foot of the bank, became the line of development for the buildings to the east side of Science Way – the two parts of the Kelvin Building and the Bower Building. There was a roughly rectangular path with its north and south edges informally aligned with the north and south blocks in Professor's Square. This path ran around the wooded bank but, by the 1940s, it had been reduced to a path only along the back of the walled enclosures to the west of Professor's Square. The lower path had been removed, possibly during the construction phase for the later part of the Kelvin Building. This eastern path within, what was to become, Professor Gardens became consolidated into the current strong linear route in late 20th century landscaping of this area. The current character of Professor Gardens is a recent design. **The linear divisions which break the space into compartments have no historical or heritage value.**

Bridge Proposal:
This lack of historical value does prevent the garden from being effective contemporary design which forms an appropriate context for the buildings. The divisions, introduced into the space and the stronger landscaping around the eastern path, have helped to transform an area that was initially only designed as a buffer zone at the edge of the campus. Part of the reason for this change is that the area is no longer peripheral and that the use of the Professor's Square houses has changed from domestic and requiring privacy, to a university department. It has become a designed space that students can use for sitting out in the summer months. The bridge design works with this relatively recent design character of this space. The east-west divisions that have been used to create compartments can be seen as part of the same landscape structure that has been introduced. It has no heritage impact on the landscape between Professors' Square and the Kelvin Building because this landscape retains no historic value.

The design of the bridge need not attempt to look similar to any part of the design of the Kelvin Building. The bridge and the west wall of the Kelvin Building will always be different architectural entities. The architectural interest of the new bridge design will be in contrast, rather than any continuity with the historic architectural detail on the side of the Kelvin Building. It should be the contemporary best design possible within the constraints of the brief. For this reason a glass balustrade would be better than painted iron railings because the contrast to the existing building would make it entirely legible as a high quality contemporary intervention.

The historic image above demonstrates the level changes surrounding the Kelvin building and also the use of planting to create the setting of the building and to highlight the amenity spaces surrounding it. We feel it is important to take this precedent of amenity planting back into the gardens which have become dominated with mature trees and provide a more domestic setting for sitting, resting and meeting in this space.

3.0 Building Strategy

3.11 Landscaping

3.11.4 Summary of Site Visit Conducted

On the 15th of July 2018 Myles Thompson, chartered Landscape Architect attended site to record details on the existing views and vistas experienced within the Professors Garden but also record details of the existing planting and trees within the space. It should be noted at this time that the trees were in full leaf and that this would change during the winter seasons when visibility would be extended after autumn.

The Pre-Application Enquiry Outcome states:

"While this work would have a direct physical impact on the James Miller building, it would have a greater visual impact on the linear character of the garden, its relationship with the James Miller building and the rear of the Professor's Square terrace. It is considered that the proposed bridge will be intrusive in the space, will interfere with sightlines through the space, and oblique views of the listed building".

Notes during the site visit:

1. Proposed structure would be located to the southern section of the linear space and it would not interrupt the views along the existing footpath to the east or the adjacent building terrace.

2. The existing vegetation (predominantly trees) provides a lot of screening within the space, enclosing and reducing visibility of the buildings when positioned in the centre.

3. The formal Taxus baccata hedges segment the linear space into three relatively equal sections and screen views along the length of the space at lower levels.

4. Views of the Kelvin Building are fragmented and largely screened, however, the maturity and historical importance of the trees and their relationship to the buildings was clear during the site visit.

5. The gradient of the grass slope is largely even as it falls from the upper path down to the Kelvin Building retaining wall.

6. The condition of the grass is average with several areas suffering from the dry weather conditions that we have been experiencing. It was also noted that the trees do have an effect on the condition of the grass.

7. A primary consideration will be the visibility of the bridge from elevated windows. The plan view should be read as a comprehensive and coherent design within the existing landscape context and this would be best achieved with proposed planting rather than earthworks or hard structures.

Image showing grass fall is largely even from upper path to retaining wall

3.11 Landscaping

3.11.5 Link Bridge / Shape & Form

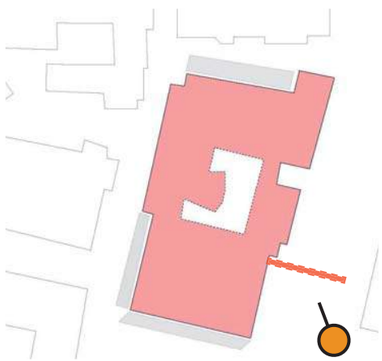
As noted in the Pre Application outcome the setting of Professors Garden in relation to the listing buildings is very valuable and the introduction of a new access will have to be set into the space with minimal disturbance to the views and to the existing landscape character.

Landscape Setting

- The views shown (Fig .1) are centred on the proposed bridge link location and indicate the existing landscape context during the height of the summer months.
- The mature trees dominate the views and building facades but also provide a series of enclosed grass areas with relative privacy.
- The street furniture and paving provides a complementary set of materials to the existing buildings and walls with key features including the lampposts as noticeable heritage items.

Fig.1 Existing landscaping

Fig.2 Proposed landscaping



3.0 Building Strategy

3.11 Landscaping

3.11.5 Link Bridge / Shape & Form

- The image (Fig .3) clearly demonstrates the segmentation of the space by the Taxus baccata hedges but also the vegetation at the south end of the space enclosing the views. The mature trees line the buildings partially screening the facades.
- The existing space does not currently have a garden feel to it due to the lack of low level planting and seasonal interest
- Mature trees dominate the space and a greater combination of planting would help soften the space but also provide more domestic scale responding to the Gilmorehill Campus Masterplan – Public Realm & Landscape Strategy recommendation of introducing additional flower rich planting.

Fig .3 Existing landscaping

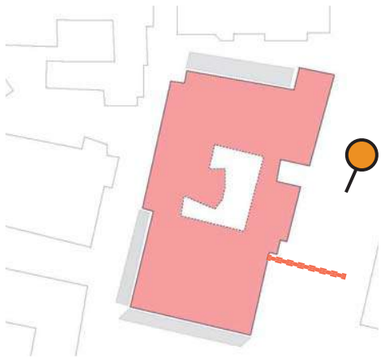


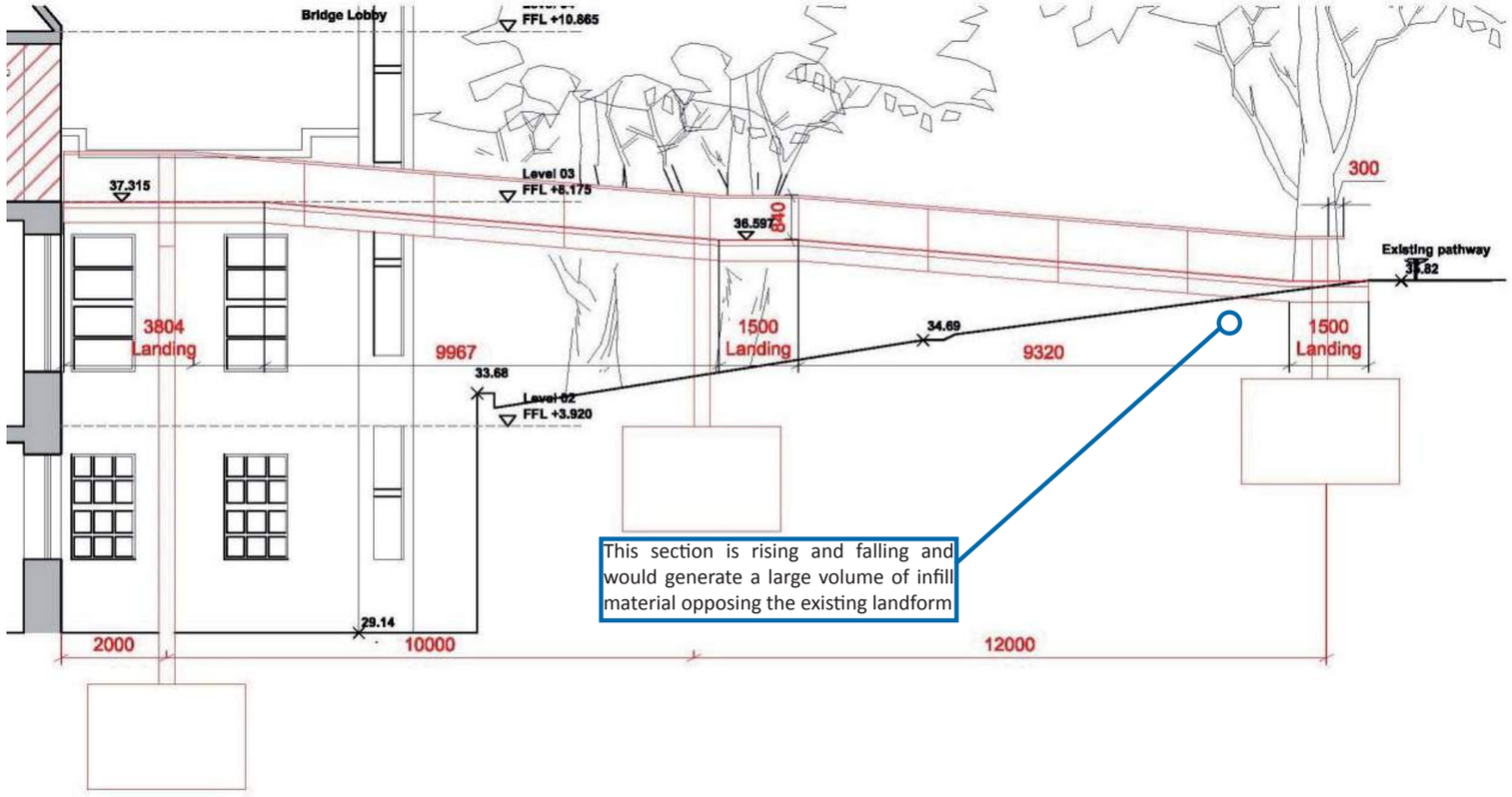
Fig 4. Proposed landscaping

3.11 Landscaping

3.11.5 Link Bridge / Shape & Form

- Simple slim line profile
- Natural aggregate resin bound material deck surface
- Black painted metal work
- The two sets of bridge piers will provide key elements to the structure and will be visible from the side elevations
- They should be as slim as possible but also be in scale with the size of the bridge structure; too slim and it can look under designed and if they are oversized the delicate scale of the bridge can be lost
- The shape and form of the bridge is driven by the accessibility requirements and the compliance with DDA regulations
- The 1:12 ramps and landings provide a staggered structure landing on the opposed graded grass embankment. The landing section will provide a shallow and narrowing space under the structure which will need to be designed into the existing landscape context
- At the initial stages of this report a graded earth slope was considered
- However, with the existing landform grading away from the bridge landing this would create a significant earthwork opposing to the existing landform and further detract from the current grass slope.

Proposed deck surfaced in natural aggregate resin bound material



Link Bridge section proposal

Proposed Link Bridge Visual

3.0 Building Strategy

3.11 Landscaping

3.11.5 Link Bridge / Shape & Form

- Use of planting to integrate the bridge at the landing point with the wider garden space is the best solution to the planning comments.
- Space could be greatly enhanced with a creative plant selection, ensuring all year round interest with a reasonable level of maintenance.
- The adjoining section of path connecting to the bridge should not be highlighted or become a dominate feature
- Long linear existing path should remain the key feature with its medium length view
- No surface level interruptions or changes in material should be made where the bridge connects to the existing linear footpath.
- The connection of the bridge to the existing path should be subtle and not highlighted with major architectural features
- Simple signage should be used that would be integrated with the glass balustrade.

Proposed Bridge link visual


N
Viewpoint 3
Kelvin Building
Viewpoint 2
Viewpoint 1
Key
All trees shown are existing
Existing Amenity Grass
Existing Hedge
Existing Paving
Existing Benches
Proposed shrub planting
Proposed resin bound surfaced footbridge

3.0 Building Strategy

3.11 Landscaping

3.11.6 Planting

Planting Design & Integration

- The existing landscape setting of the proposed bridge and the wider garden could be developed and enhanced with the use of designed planting beds
- Integrating the overall scheme into the garden and connecting the bridge structure to the existing landform.
- The planting bed (right) is located within a circus in Edinburgh and represents historical planting style and seasonal colour
- Planting beds also offer a domestic scale that compliments the use and nature of the garden space.
- This proposal represents the most practical approach to connecting the bridge landing with the existing grass slope
- This will help screen the shallow space under the bridge but also provide interest for users of the existing footpath and users travelling up and down the bridge connection
- The enhancement of the garden space would not just tie the proposed bridge to the garden but also provide a linear connection along the garden space.

Planting bed within a circus in Edinburgh represents seasonal colour and historic planting

3.11 Landscaping

3.11.7 Balustrade

Balustrade Options

- The balustrade will be the most visual element of the bridge structure when viewed from the existing ground level.
- This vertical element will also form a large part of the aesthetics of the structure
- The current proposals are based on a glass balustrade as demonstrated in the visual below
- The glass supports the minimal visual impact of the structure but provides the health and safety requirements and the protection required for users of the bridge.
- Historic Environment Scotland as part of the Pre Application Enquiry outcome suggested that painted iron railings rather than a glass balustrade would fit more comfortably with the established aesthetic of the building.
- Explored the existing cast iron railings within the site area - the heavy ornate railings would highlight the bridge structure rather than help it sit within the local context of the Professors Gardens.
- Timber finish on proposed balustrade will provide the best aesthetic to the garden space and be the most comfortable to the user compared to a bare glass or metal handrail.

Proposed Link Bridge visual

Fig .1

Fig .2

Fig .1 - Ornate, historical cast iron railings adjacent to Professors Sq.

Fig .2 - Simple, practical railings to west boundary of Professors Gardens.

ISO A1 594mm x 841mm

Designer: PT Checked: RH Approved: KC

Existing trees to be removed

Site Boundary

Proposed ornamental shrub planting

Proposed Ornamental Shrub Planting

No.	% Mix	Latin Name	Common Name	Size	Density (per m2)
76	20	Lavandula angustifolia 'Hidcote'	English lavender Hidcote	1.5L	4
16	10	Hebe 'Great Orme'		1.5L	2
76	10	Geranium sanguineum	Bloody's cranebill	1L	8
57	15	Helenium 'Moerheim Beauty'	Sneezeweed 'Moerheim Beauty'	1L	4
76	20	Deutzia gracilis		1L	4
57	15	Sedum telephium	Orphine	1l	4
16	10	Actaea racemosa	Black snakeroot	1l	2


Deutzia gracilis


Geranium sanguineum


Lavandula angustifolia 'Hidcote'


Actaea racemosa


Hebe 'Great Orme'


Helenium 'Moerheim Beauty'


Sedum telephium

AECOM

PROJECT

University of Glasgow- Kelvin Building

CLIENT

University of Glasgow

CONSULTANT

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www.aecom.com

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ISSUE/REVISION

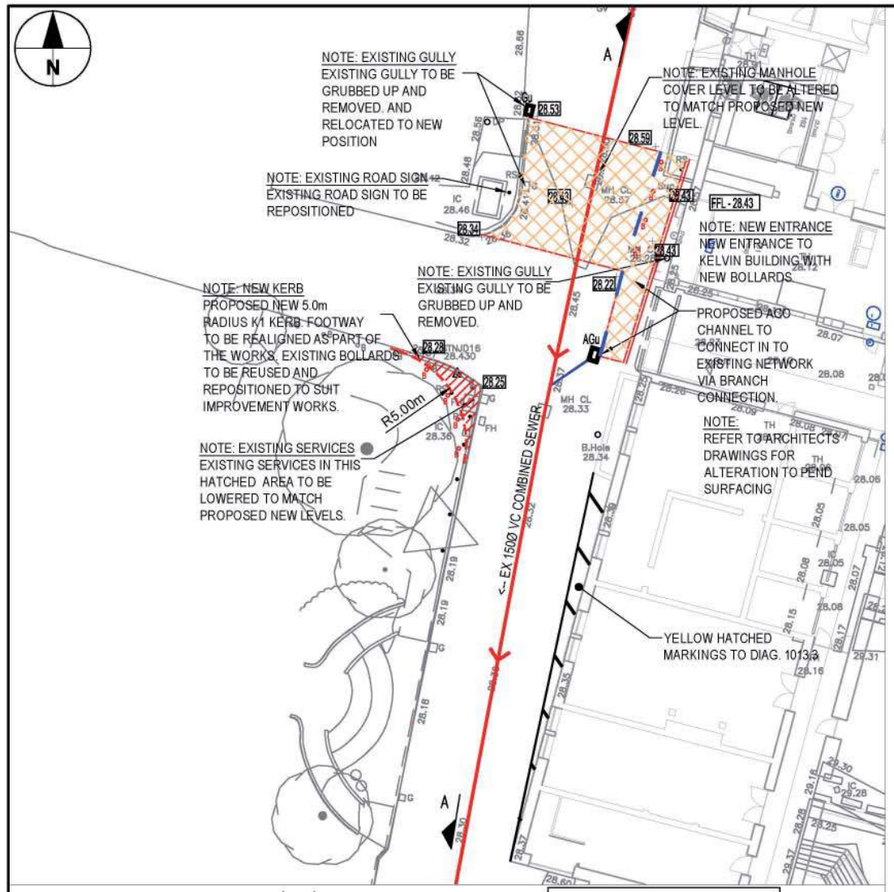
I/R	DATE	DESCRIPTION
B	21.08.18	For Planning
A	09.08.18	First Issue

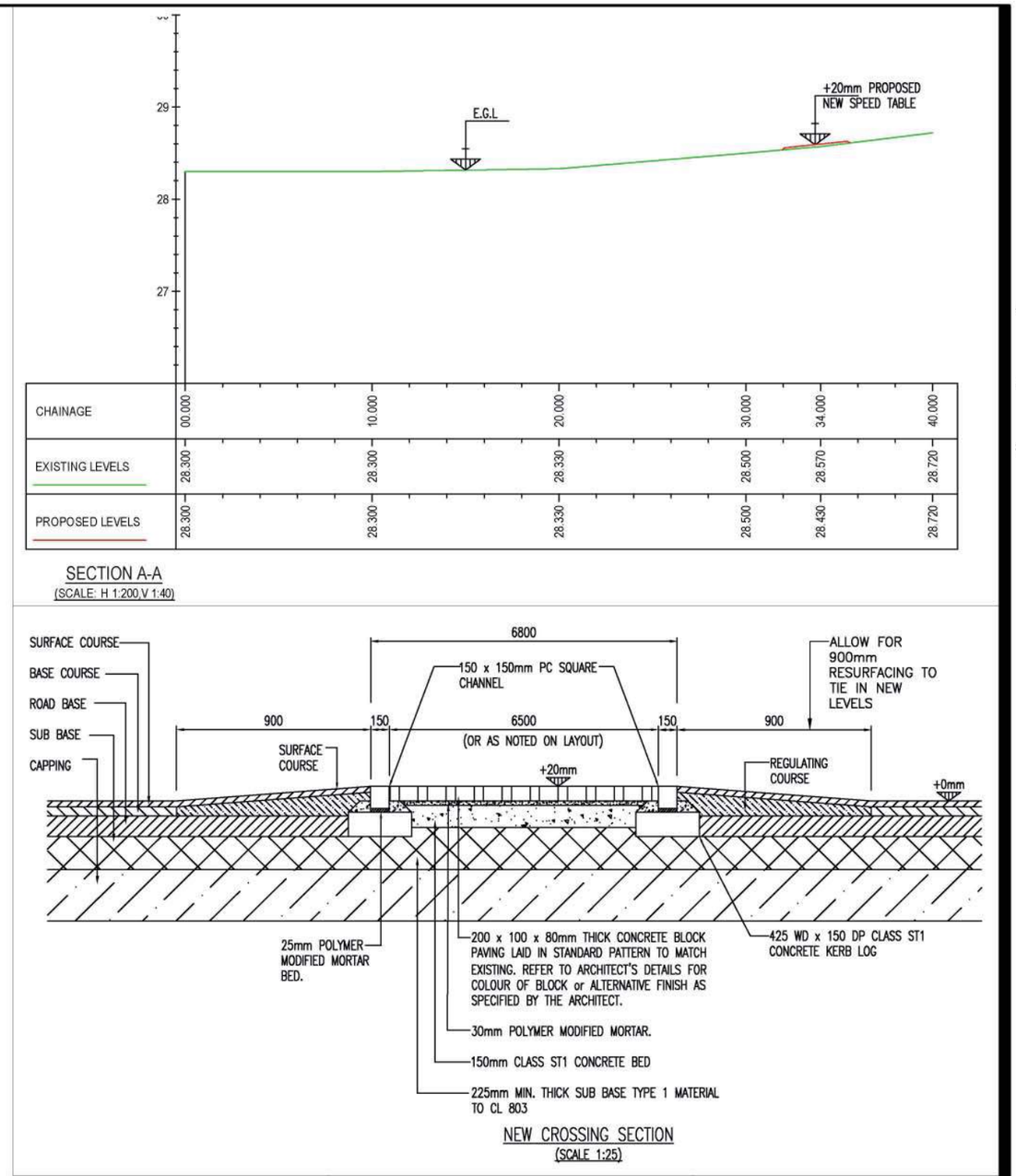
SHEET TITLE

Proposed Landscape Masterplan

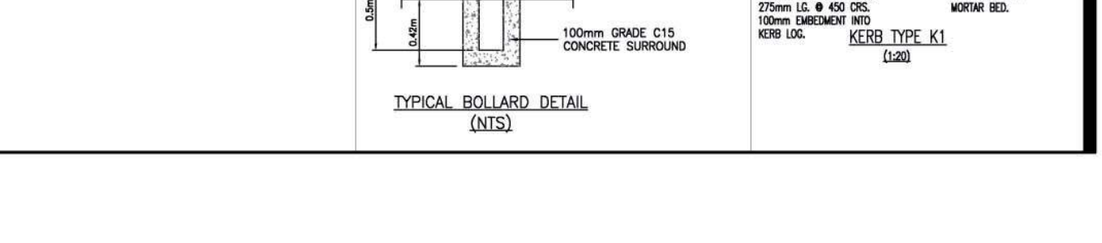
SHEET NUMBER

60549125-ACM-00-00-DR-L-5000





SECTION A-A
(SCALE: H 1:200,V 1:40)



NEW CROSSING SECTION
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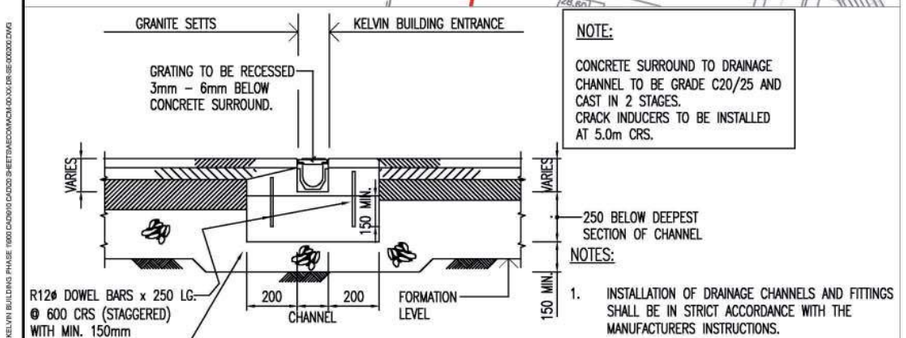


'ACO' DRAINAGE CHANNEL DETAIL
(SCALE 1:20)

NOTE:

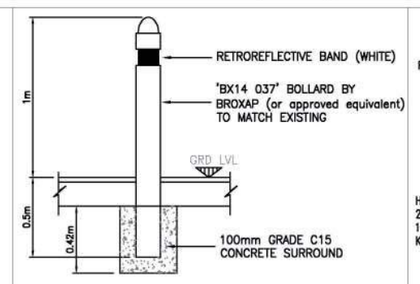
CONCRETE SURROUND TO DRAINAGE CHANNEL TO BE GRADE C20/25 AND CAST IN 2 STAGES.
CRACK INDUCERS TO BE INSTALLED AT 5.0m CRS.

NOTES:

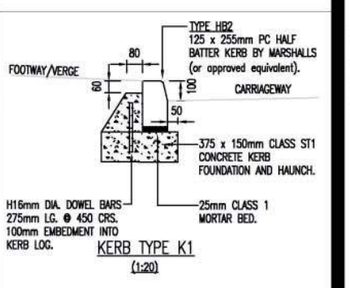
1. INSTALLATION OF DRAINAGE CHANNELS AND FITTINGS SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
2. CHANNELS TO BE SECURELY SUPPORTED, PRIOR TO CASTING OF CONCRETE.
3. ALL GRATINGS TO BE SECURELY LOCKED IN POSITION AFTER INSTALLATION.
4. ALL GRATINGS FOR CHANNEL TYPE:
   M100D TO HAVE 'HEELGUARD' HEAVY DUTY GRATING D400.
   S150 TO HAVE 'INTERCEPT' HEAVY DUTY GRATING E600.

LEGEND

- DENOTES PROPOSED KERB REALIGNMENT
- DENOTES EXTENT OF JUNCTION WIDENING
- DENOTES EXTENT GRANITE SETTS
- DENOTES PROPOSED ACO CHANNEL
- DENOTES PROPOSED SURFACE WATER LINE
- DENOTES EXISTING COMBINED SEWER 150Ø VC
- Gu DENOTES PROPOSED GULLY
- AGu DENOTES PROPOSED ACO CHANNEL GULLY



TYPICAL BOLLARD DETAIL
(NTS)



KERB TYPE K1
(1:20)

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PROJECT
KEVLIN BUILDING PHASE 1 WORKS

CLIENT
UNIVERSITY OF GLASGOW

NOTES

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PLANNING

ISSUE/REVISION

VR	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER
60549125

SHEET TITLE
PROPOSED EXTERNAL WORKS

SHEET NUMBER
ACM-05-XX-DR-SE-000200

AECOM

Drawing Issue Register

Contract: KELVIN BUILDING, UNIVESITY OF GLASGOW

Drawing No's:

Contract No: 60549-125

Sheet No: 1

We enclose copies of the drawings listed below

Drawing No	Size	Drawing Title	Revision	Date of Issue Day	Month	Year
				27	07	18
				30	07	18
				01	08	18
				22	08	18
000100	A1	Platform Lift / Stair - Level 01		✓		
000101	A1	Midi Lift Base Plan - Level 03 & 04		✓		
000103	A1	New Stair Lifts - Level 04		✓		
000104	A1	Plan On Toilet Area - Level 01		✓		
000105	A1	Plan On Toilet Area - Level 03		✓		
000106	A1	Plan On New Entrance Area - Level 01	✓			
000107	A1	Staircase & Lobby Alterations - Level 04		✓		
000108	A1	Timber Partition Wall Standard Details		✓		
000109	A1	Internal Courtyard Main Lift Shaft Steelwork Plans	✓			
000110	A1	Internal Courtyard Main Lift Shaft Steelwork Sections	✓			
000200	A1	Proposed External Works			✓	✔
000201	A1	Junction Upgrades Swept Path Analysis			✓	

Company						
AECOM - Quantity Surveyor	Lee Paterson / Martin Feeney		✓	✓	✓	
AECOM - MEP	John Willock / William Johnstone		✓	✓	✓	
AECOM - Design Management	Dominic Duffy / Rachel Stanbridge		✓	✓	✓	✔
Keppies - Architect	Ryan Sylvester		✓	✓	✓	✔
			BILLING	BILLING	BILLING	PLANNING

Kelvin Issue Sheet - Structural.xls 0100

Appendix

4.0

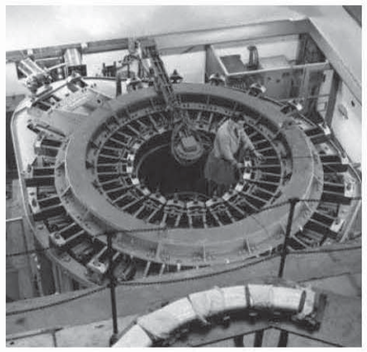
4.0 Appendix

4.1 Heritage Statement

University of Glasgow: Kelvin Building

Heritage Statement

February 2018


Simpson & Brown

Primary author	*JRS*
Checked/approved	*JRS*
Issue number	*1*

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KELVIN BUILDING
Heritage Statement

Contents

1.0 INTRODUCTION

This report discusses the heritage impact of proposals to alter The Kelvin Building at Glasgow University.

The history and importance of the building is assessed in The University of Glasgow Estates Conservation Strategy (ECS). This document assesses the potential impact on the significance of the site building. The report also sets out recommendations for mitigation.

1.1 Objectives

The physical and documentary evidence for the historical development of the building and its setting is contained in the ECS issued in 2006. A significance assessment is included in this document. The purpose of establishing the significance of a site is to identify and assess the attributes which make a building of value. Once the heritage significance of the building and surrounding land is considered, informed decisions can be made which will enable that significance to be retained.

1.2 Designations

The Kelvin Building is a Category B listed building. The site is not within a Conservation Area.

1.3 Limitations

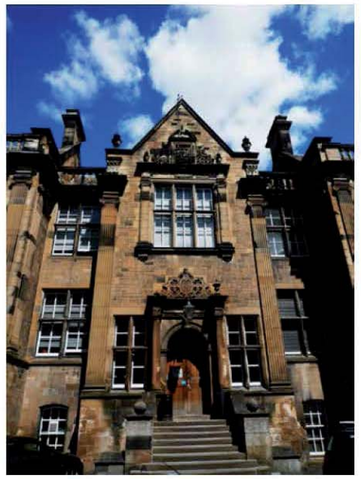
Documentary research was limited by time. Further research would enhance the understanding of the building.

1.4 Structure of the Report

The structure of the report uses terms often used in a conservation plan. Guidelines for conservation plan terminology are set out in the Heritage Lottery Fund's *Conservation Management Planning* (April 2008) document; English Heritage's *Conservation Principles, Policies and Guidance* (2008).

1.5 Project Team

This document was written by Simpson & Brown Architects. We are grateful to Keppie Architects for supplying drawings as existing.



2.0 THE STUDY SITE

2.1 Site Description

The Kelvin Building comprises two blocks. To the south is James Miller's building completed in 1906. The northern block is by Basil Spence and was built in phases from 1959. The significance of these two parts of the building is mainly external. The original part of the building by James Miller had its main front facing southwards towards the driveway rising to the Gilbert Scott building from Dumbarton Road to the south-west. The east and west sides were less important and the side facing north was the back of the building.

The Spence block has its main front facing west with its entrance at the north-west corner. The north and east sides are less important. The west side has a masonry plinth and is detailed as a contemporary extension to the plane of the west side of the Miller building. It is possible that the courtyard was originally carefully detailed within the Spence block but the sides facing the courtyard have been altered. The courtyard elevations have been consistently treated as the back of the building over the last 50 years.

The inside of both buildings has little of significance. There were large rooms in the eastern block of the Miller building but these have been sub-divided. The entrance hall of the Spence buildings has moderate significance but has also been altered.

The original stone-faced building extends to the north east to form a U-plan around a courtyard. A block has been introduced into the north side of the south block. This has been built in two phases with the most recent built after the construction of the later part of the Kelvin Building to the northwest and north. It is brought into a courtyard which has been designed, in the 60s, to include an elegantly shaped lecture theatre. Scars of earlier parts of the Miller buildings on the position of the courtyard can be seen on the west side of the north east block.

In the Miller building, the stairway in the lobby is elegantly designed with curved ends which do not quite meet the surrounding wall. The foyer is an attractive and elegant design which is largely retained. The lecture theatre was altered in the 1990s with the roof space subdivided to provide a large room. James Miller's original interior to the front porch through to the stair survives, including tiled walls to the stair. The architecture is simple but of good quality. Particularly on the stair there are some Glasgow School Baroque flourishes. The upper parts of the corridors seem to retain their cornices but have been painted black with lighting track introduced. Windows and doors with etched glass also survive. In the secondary stairs there is an attractive and interesting combination of steel and stone steps.

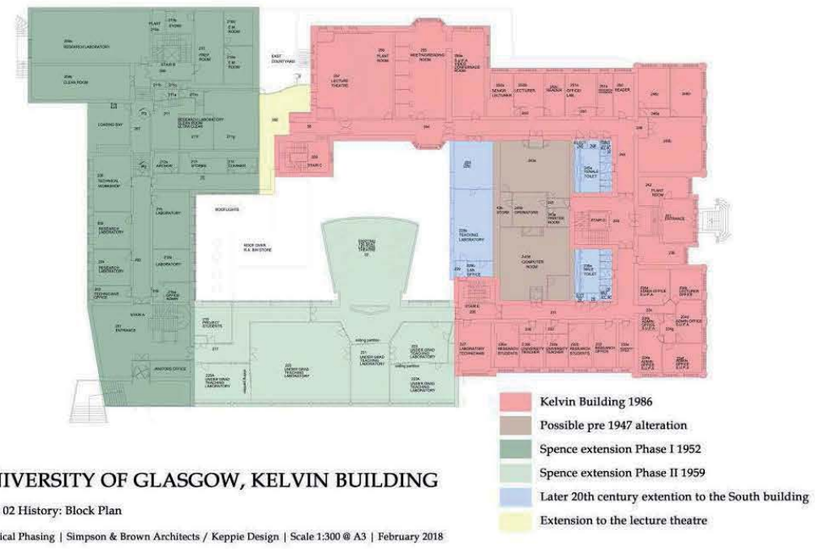
The Spence building is a concrete framed building clad in limestone. The material is an odd choice given the predominance of sandstone in the university generally and in contrast with the older sandstone part of the same building. There is a sandstone

bull nosed base course and slate clad columns on the side facing west towards Science Way. Despite the rather bland white quality of the limestone, this is one of the more successful 1950s buildings on the campus. Throughout this block there are details that give this building a particular quality. Included in this is the shape of the projecting lecture theatre in the courtyard, supported by half arches with a glazed plant room underneath, the corner entrance with its kidney shaped column, the detailing of the entrance foyer and stair, the serpentine escape stair leading to lecture theatre 3.2 at the north east corner.

This report was commissioned by the University of Glasgow. The interior of the building was inspected in detail.

2.2 History

Originally the department of Natural Philosophy, this first part to be constructed was designed by James Miller and built in 1903-6. It is in the Jacobean style, with typical strapwork details, transom and mullioned windows and a high central gable, recalling, but considerably grander than the Old College buildings on Glasgow High Street. It takes its name from the scientist William Thomson, 1st Baron Kelvin, Professor of Natural Philosophy 1846-99.



UNIVERSITY OF GLASGOW, KELVIN BUILDING

Level 02 History: Block Plan

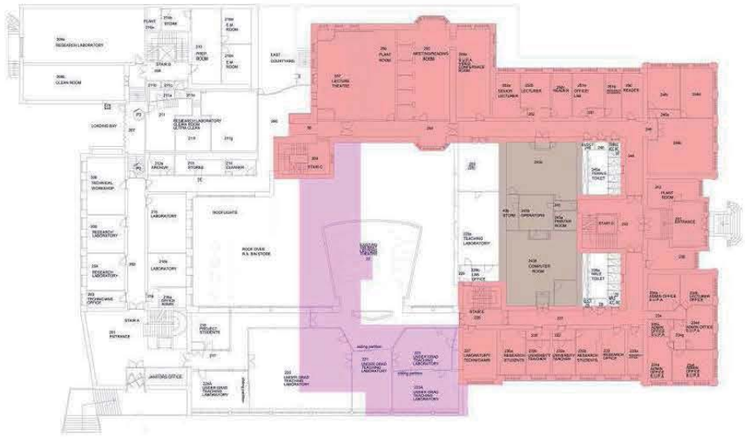
Historical Phasing | Simpson & Brown Architects / Keppie Design | Scale 1:300 @ A3 | February 2018

The history of the building is complex but the two major phases are from 1906 when the architect was James Millar and from 1952 -1959 by the architectural practice led by Basil Spence. Both buildings are equally important. The Miller building is a response to the south west approach towards the Gilbert Scott Building using a Jacobean style possibly influenced by the original character of the Glasgow University when it was on Glasgow High Street.

The purity of Miller's designs survives on the outside faces particularly to the south. The Miller building has been changed considerably to the north which all seems to have been considered as the back. Before 1950s changes the building was a quadrangle but the relatively low two storey north block was demolished to allow the construction of the Spence building. The main alterations to the Miller building

appear to have happened since the Spence building was constructed and it is possible that the internal courtyard was considered to be more important architecturally when constructed than it has been treated ever since.

The basic plan of the Miller building was an E-shape with its open end to the north, once the north block had been demolished. This E-shape has been filled possibly in three successive campaigns. A block has been built across the north wall of the stair. This will have covered the main stair window. There is some evidence of earlier building in this block on the first floor to the west where some outside windows are now internal. Possibly the next phase of the alteration in this area was the infilling of two light wells on either side of the main stair to form a column of ladies and gents toilets together with some storage. The completion of this block into a rectangular form has been carried out in the 1980s or 90s. At the same time north-west stair in this original block has been extended up by two levels to provide access to the new roof surfaces.



UNIVERSITY OF GLASGOW, KELVIN BUILDING

Level 02 History: Block Plan

Historical Phasing | Simpson & Brown Architects / Keppie Design | Scale 1:300 @ A3 | February 2018

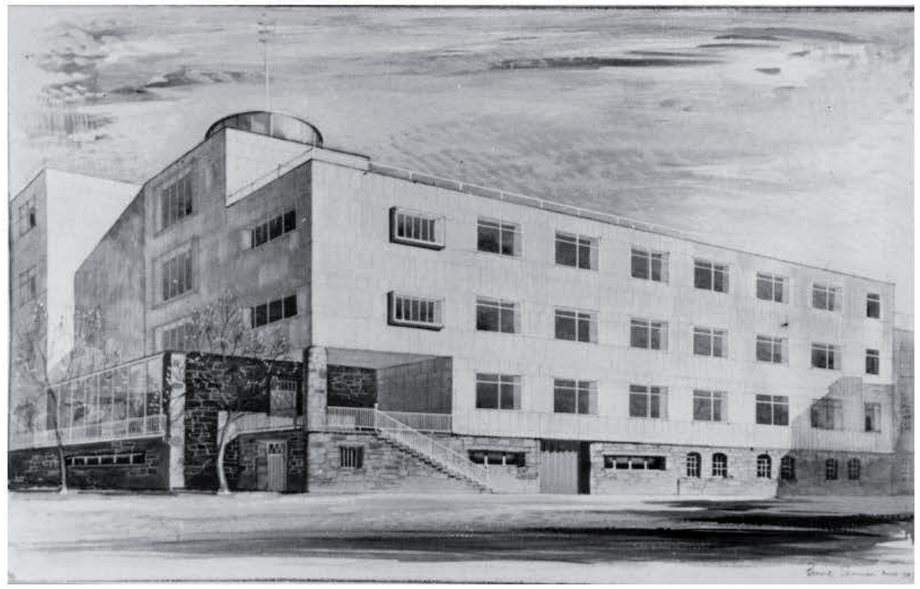
Kelvin Building 1906

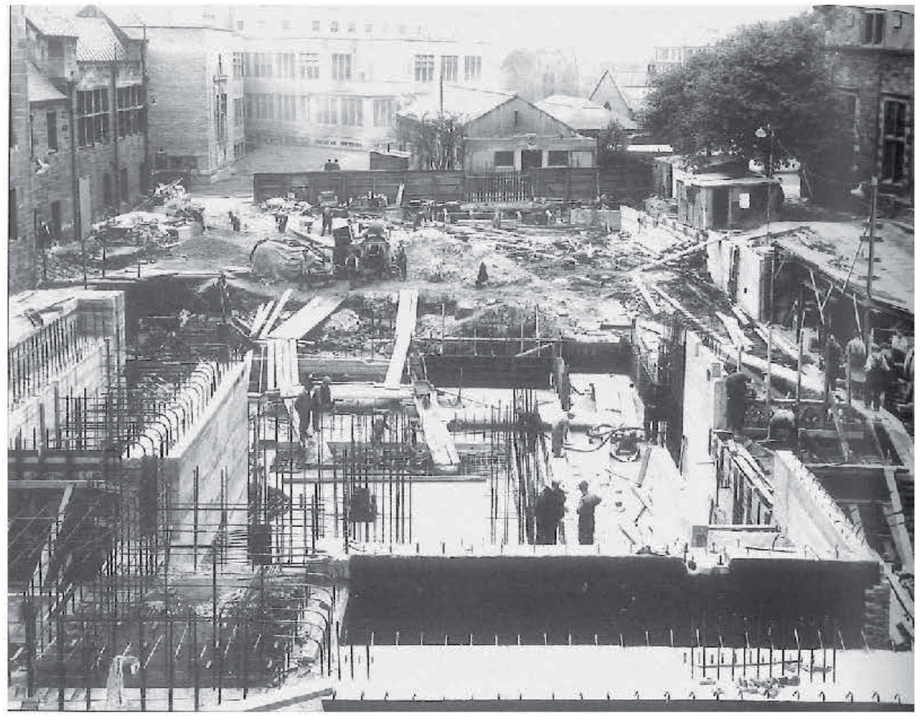
Possible pre 1947 alteration

Part of 1906 building demolished for construction of North part of Kelvin Building

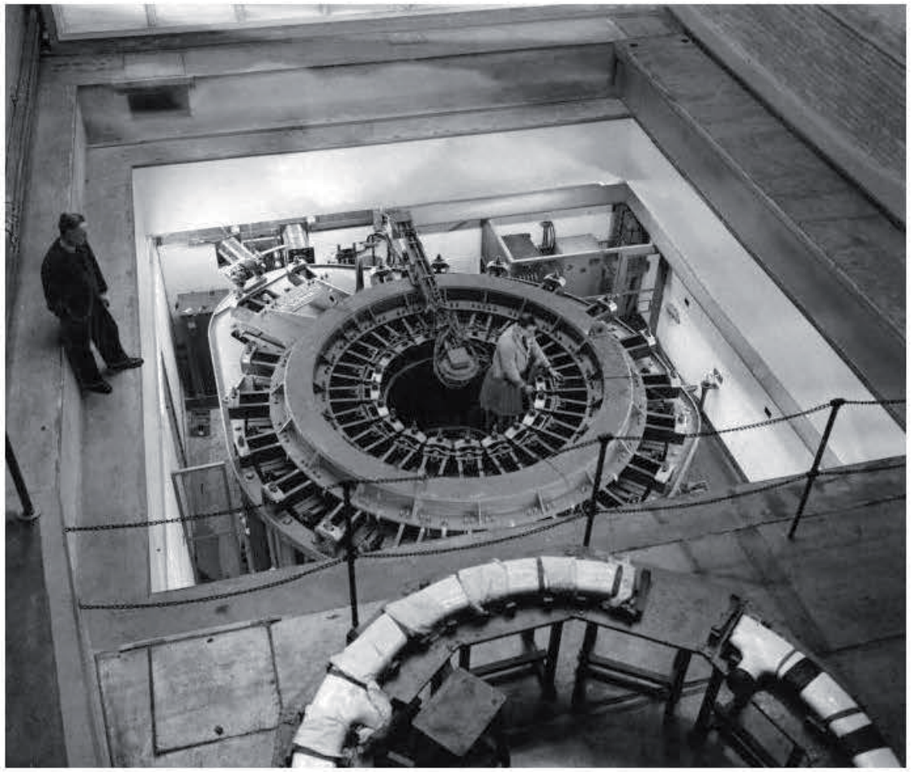
As a further campaign of alteration the previously unused attic spaces were converted to teaching and office accommodation. The east and west sides have had dormers inserted in the roof pitch. The designer of this substantial change has been careful not to change the south elevation of Miller's building indicating that this side was more valued than the east or west side by this time.

Basil Spence & Partners extended the Kelvin Building in three phases: first in 1947-52 to the north, to house the synchrotron particle accelerator, next in 1959 with the western teaching block, including its cantilevered lecture theatre, and finally in 1966-8. This final phase by Spence, Glover & Ferguson, added the top storey with accommodation for a library and museum, to display equipment from Lord Kelvin's laboratory.





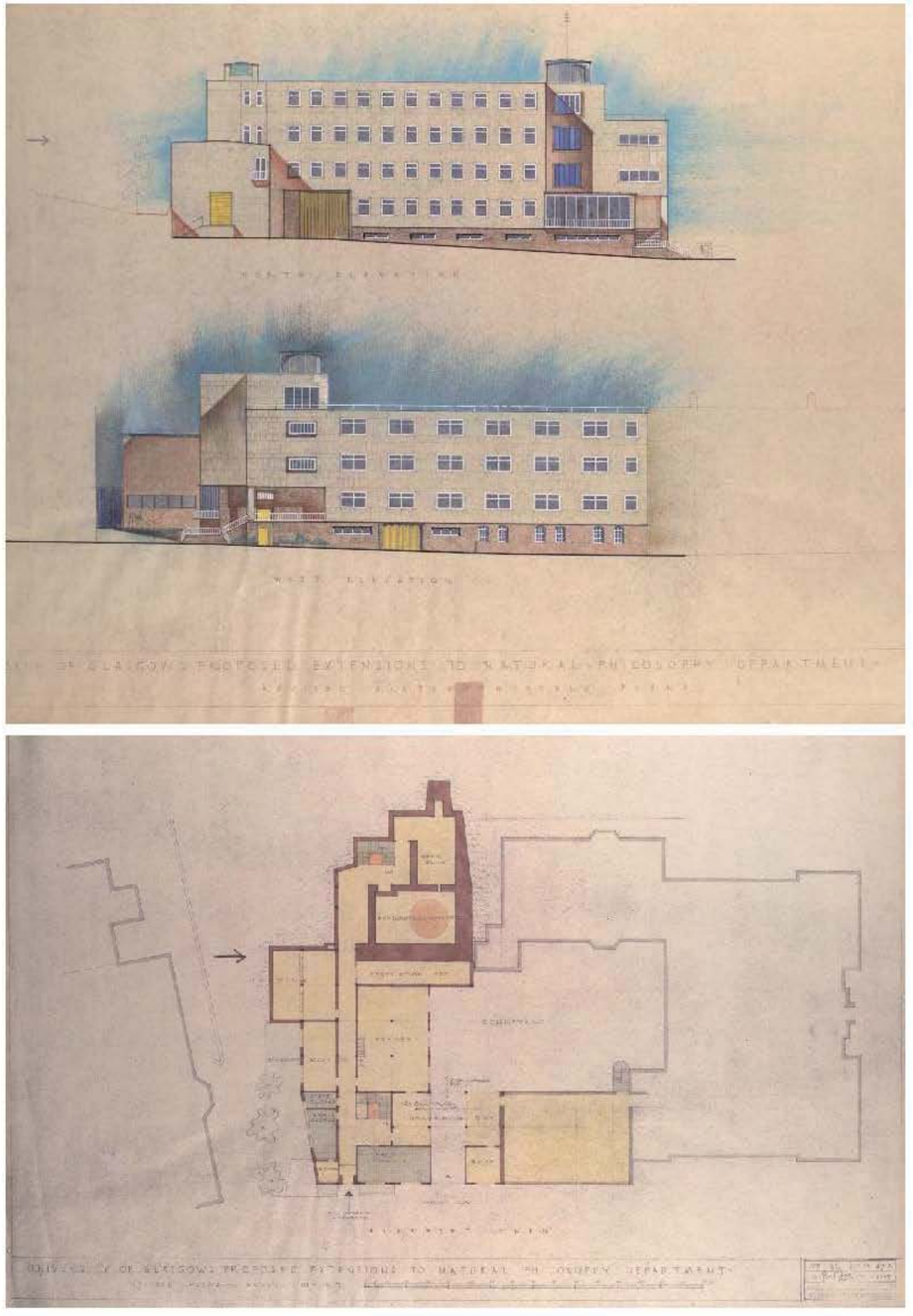
The Spence building is a good exercise in the Festival of Britain style carried out at a time when Spence's practice was working on important commissions across Britain.

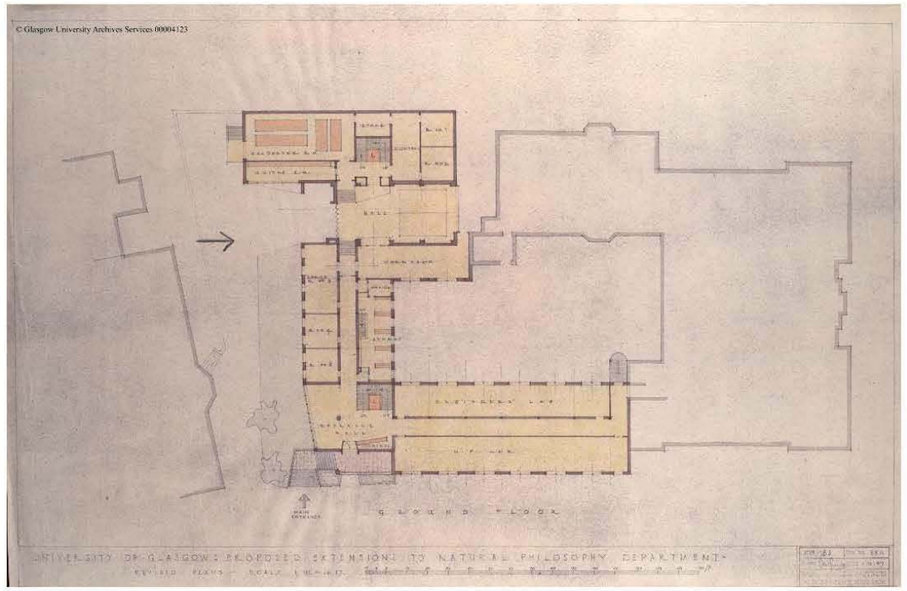


The Spence design is more in the round with the most often seen faces that characterise the building to the west and to the north. The main entrance provides the main architectural quality. It is set at the "hinge" between these two blocks. There have been subsequent changes and these changes indicate the attitude of the owner, Glasgow University, to the building and its significance since completion in each part.

There is a hierarchy between sandstone bull nosed rubble stone used in the plinth and the limestone cladding used at higher level. Although it is lower down the building, the plinth stone clearly has some status in the design. The one position where this sandstone is raised above the plinth is at the entrance were it forms the frame for the tall glazed wall facing north from the entrance hall and also surrounds the main entrance. In some ways this is a nod backwards to the early University buildings which have sandstone around their main entrances. There is an elegant interplay of materials. Immediately in front of the main entrance is a very prominent naturally finished concrete pillar.

The Spence building has also been subject to changes but most of this building remains intact and legible. The changes have been at roof level with one block constructed to the design of Spence, Glover & Ferguson and the other constructed later. There have been internal alterations but a lot of the 1950s quality and character of the building has survived inside including the entrance hall, the main stair, and the limestone lined corridors in the north block.

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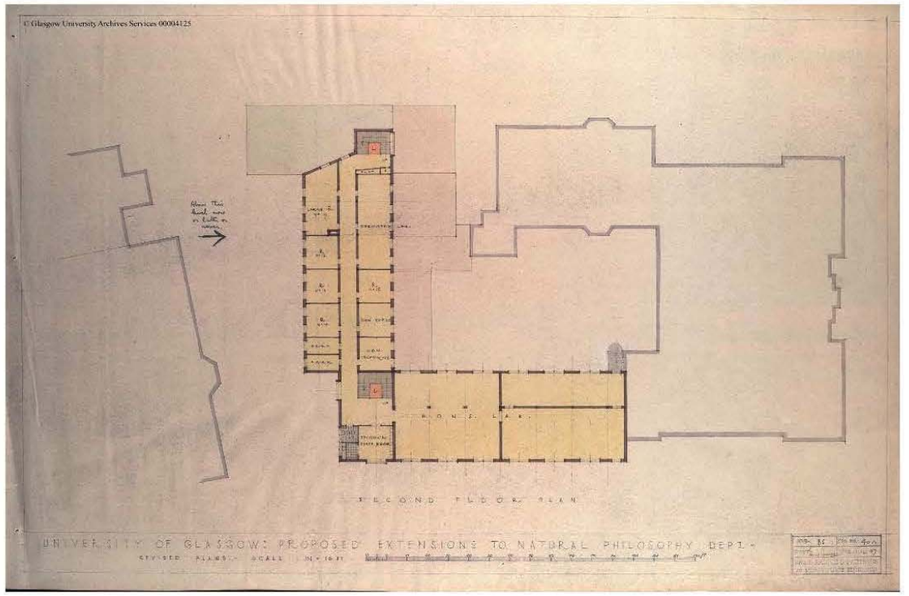
GROUND FLOOR
UNIVERSITY OF GLASGOW: PROPOSED EXTENSIONS TO NATURAL PHILOSOPHY DEPARTMENT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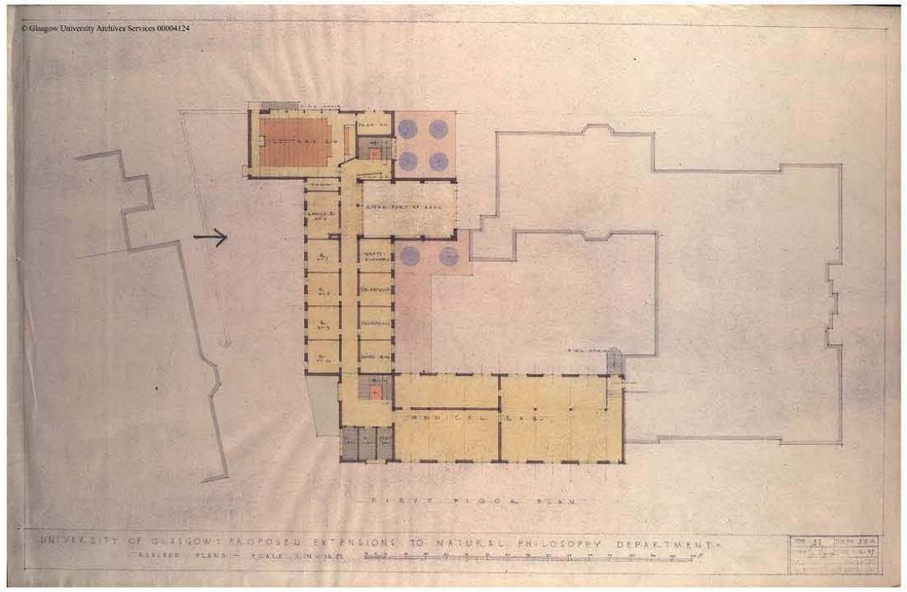
SECOND FLOOR PLAN
UNIVERSITY OF GLASGOW: PROPOSED EXTENSIONS TO NATURAL PHILOSOPHY DEPT.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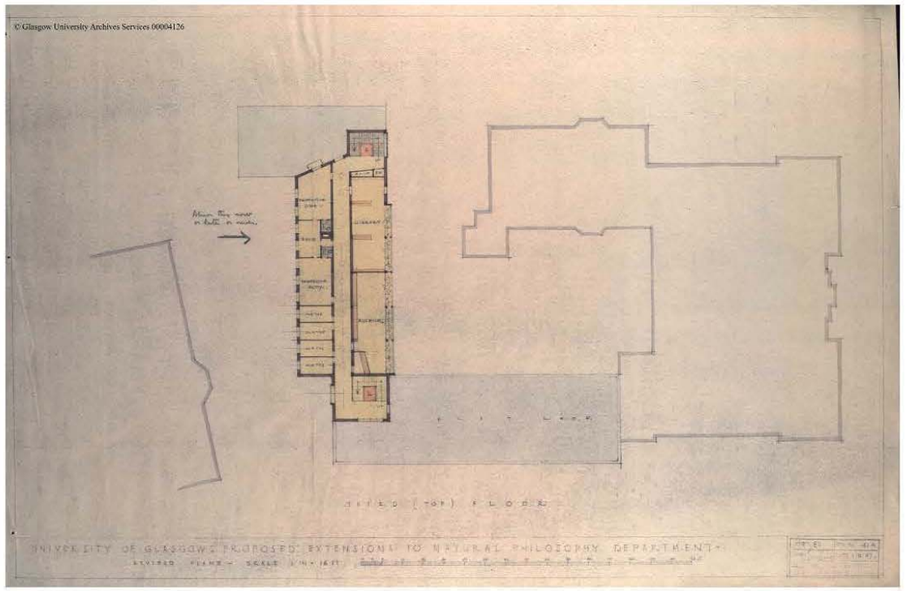
FIRST FLOOR PLAN
UNIVERSITY OF GLASGOW: PROPOSED EXTENSIONS TO NATURAL PHILOSOPHY DEPARTMENT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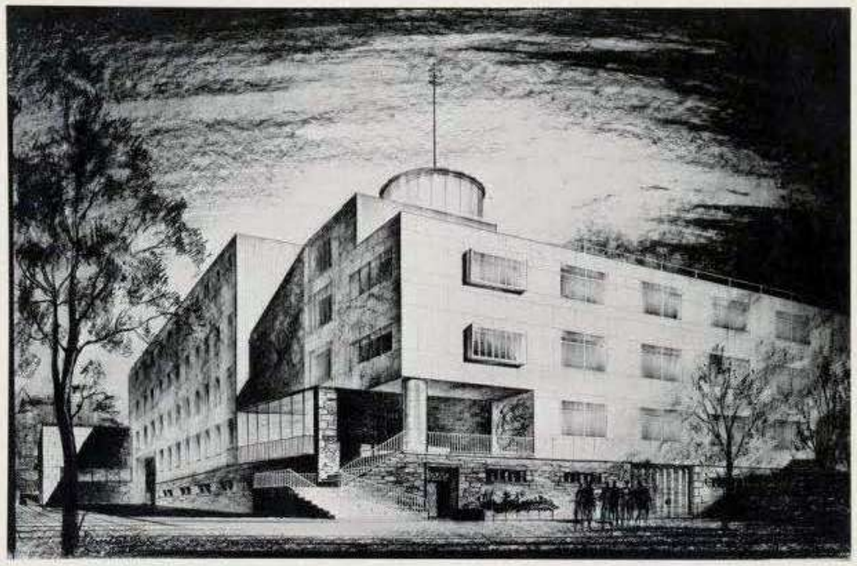
UNIVERSITY OF GLASGOW: PROPOSED EXTENSIONS TO NATURAL PHILOSOPHY DEPARTMENT



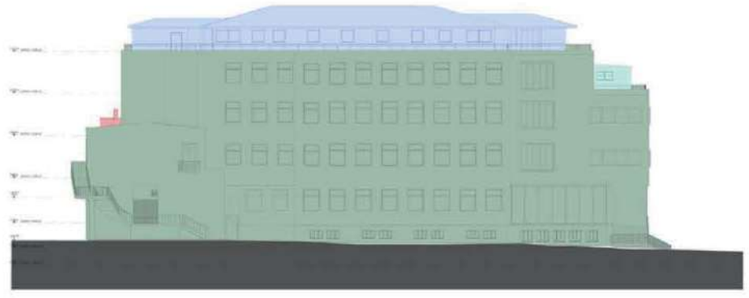
GLASGOW UNIVERSITY : ATOMIC RESEARCH BLOCK

Kelvin Building 1906
Spence extension Phase I 1952
Spence extension Phase II 1959
Spence Glover and Ferguson 1966
Alterations at attic level of Kelvin building South - date not known
Later 20th century extention to the South building
Extensions to the lecture theatre

UNIVERSITY OF GLASGOW, KELVIN BUILDING

East Elevation as Entire showing Historical Phasing

Historical Phasing | Simpson & Brown Architects / Keppie Design | Scale 1:300 @ A3 | February 2018

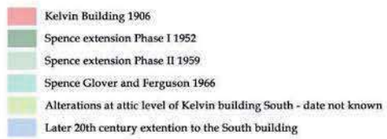


Kelvin Building 1906
Spence extension Phase I 1952
Spence Glover and Ferguson 1966
Later 20th century extention to the South building

UNIVERSITY OF GLASGOW, KELVIN BUILDING

North Elevation as Proposed showing Historical Phasing

Historical Phasing | Simpson & Brown Architects / Keppie Design | Scale 1:300 @ A3 | February 2018



UNIVERSITY OF GLASGOW, KELVIN BUILDING

West Elevation showing Historical Phasing

Historical Phasing | Simpson & Brown Architects / Keppie Design | Scale 1:300 @ A3 | February 2018

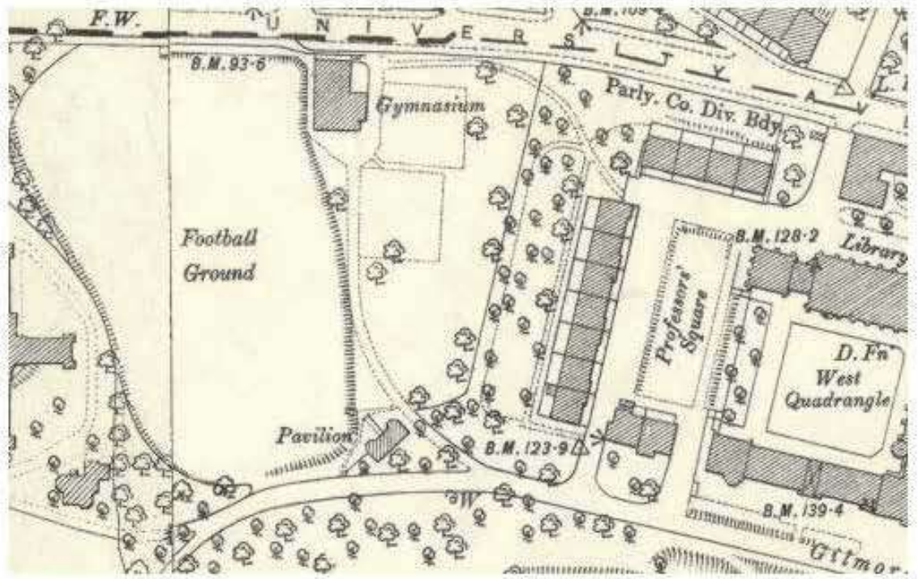
2.3 Landscape History

The main faces of the original building was southwards towards the approach to the core of the university at the time it was built. The secondary front faces westwards towards Science Way. The west side is detailed to be less important than the south side and is now seen in the same context as the Spence extension to the building. The large number of pipes disfigure this building but are probably not worth removing. The bright white window colour on this building is unlikely to be the original colour. It is quite possible that the architect intended a lot of the character and colour of the building to be in the joinery and for the colour to contrast with the stone colour which would have been a fresher, light brown colour when it had been worked for inclusion in the building.

This building presents a very strong symmetrical façade southwards towards Dumbarton Way. It is by the same architect as the West Medical Building on the other side. Both buildings were designed to accommodate the sloping ground, but with an entirely different design approach. Where the West Medical Building is an informal grouping, climbing the slope, with little architectural emphasis at the main door, the Kelvin Building presents a symmetrical front cut into the slope. This gives it the rather unsatisfactory nature of a symmetrical front sunk into the ground. The building faces south. If it had been built more recently it would probably have faced towards Science Way as the principal route within this part of the campus.

The Kelvin Building extension is a good example of a university building of its date. It fits in well with its context and, as first conceived was a sensitive and intelligent extension to the original Kelvin Building. Subsequent additions and changes have diminished the quality of the courtyard so that it has come to have the character of a

back yard. However, this poor appearance does not affect the quality of the campus overall.



1892-1914 OS map NLS

On the 1914 Ordnance Survey map, the area between the Kelvin Building and Professor's Square is shown as a long rectangle with its long axis north/south showing trees apparently randomly distributed. There was a rectangle of paths around the edge of this area with the north and south paths passing across just beyond the north and south gables of the west block on Professor's Square.

The same arrangement appears on the 1946 map. The area of woodland behind Professor's Square and the sports ground is evident before the Kelvin Building or the Bower Building were built. It seems that this division is the line which has guided the design of all of the buildings to the west of it, including the buildings on the west side of Science Way. The one building that pre-dates 1914 is the gymnasium which now forms the northern part of the Estates and Buildings office.

By 1947 following the construction of the Bower Building and the Miller part of the Kelvin Building, only the upper path and a line of trees along was still in place. The lower path which is at the base of an embankment still survived across the east side of the Kelvin Building. To the north the path running to its northern end survived. It is possible that at the time this map was surveyed, the ground had been cleared for the construction of the north part of the Kelvin Building.

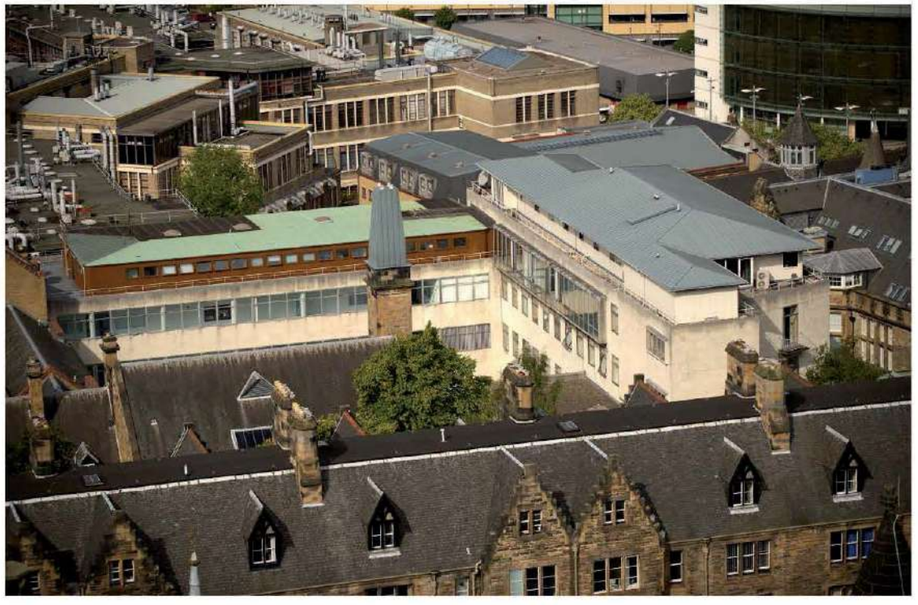
2.4 Description of area to east

The open space to the east of the Kelvin Building, which forms a strip about 25 metres wide between the east wall of the Kelvin Building including the Spence extension and the west wall of the west block of Professor's Square is an attractive but not particularly well used space. Only the terrace next to the yard wall of Professor's Square has seating. The areas of grass which form the bulk of the area

between the terrace and the Kelvin Building are rarely used except on very sunny and still days.

This space is not a free flowing or a "natural", arrangement. Its character is formed by a structure of linear hedges, paths and trees. The hedges break the space into four major compartments which pass the full length of this space as defined as the buildings on either side of it. The grass is kept short in these compartments.

The gap between buildings was probably not so much a designed space originally but set at this particular width as being an appropriate and discreet gap between the Physics Building in the Kelvin and the Domestic Accommodation for the professors. Attempts to landscape it into an attractive space and to realise the asset of the space, are a late 20th Century idea. They possibly reflect the beauty of the mature trees. These trees have been planted in rough and rectilinear alignment.



The area is hidden from general view by planting at the southern end. This planting could be strengthened to give more shelter and more sense of enclosure within in the landscaped area between the two buildings. In contrast some fast growing evergreen trees on the boundary next to the Kelvin Building are now intrusive, do not contribute to the landscape and would be better removed to reveal more of the Kelvin Building and also provide less shadowing to the east windows.

From within these gardens it is not possible to gain an idea of the east side of the Miller part of the Kelvin Building as a complete piece of architecture. The character and age of the planting and the lack of respect that has been given to this side of the building, with dormers added which were not added to the south side, shows that this side of the building was never really intended to be appreciated as a single architectural entity. It is simply an architectural foil to the south of the building which was designed as its front face towards the main route through the campus.

2.5 James Miller (1860 – 1947)

James Miller was born in 1860. He was educated at Perth Academy and, in 1877 was articled to the Perth architect Andrew Heiton. At the end of his apprenticeship he spent some time with the Edinburgh architect Hippolyte Blanc before joining the Caledonian Railway engineering department initially at Perth. He was transferred to the Glasgow office in 1888, where he designed a number of stations.

During his period with the Caledonian Railway Miller made at least one study tour of France, Belgium and Germany and had established a small but up-market private practice. He set up full-time practice on his own account in 1892 on winning the competition for Belmont Church and rented an office at 223 West George Street, Glasgow.

In 1894 his experience at railway work brought commissions for the stations on the West Highland Railway.

Miller gained significant work from architectural competitions for the Glasgow International Exhibition of 1901; in 1901 for the Glasgow Royal Infirmary; in 1903 for three buildings at Glasgow University including what is now known as the Kelvin

Building. In 1904 he secured the patronage of the Glasgow & South Western Railway for its hotel at Turnberry. In 1910 he won the competition for the Institution of Civil Engineers in Westminster and for the extension of the Institution of Mechanical Engineers to match it on the opposite side of Great George Street. Miller thus came near to eclipsing his contemporary John James Burnet in London as well as in Glasgow, but his London office at 1 Victoria Street was not reopened after the First World War.

American influence is first seen in Miller's Hispanic American exhibition buildings of 1898-1901, which like their American counterparts were built of a hard white plaster known at the time as 'staff'. Turnberry Hotel, begun in the following year, and Peebles Hydropathic, begun in 1905, were similarly reflections of American country hotels, as was his competition win for the design of the Caledonian Railway's Gleneagles Hotel.

Despite the American influence Miller's public and commercial architecture tended to remain an accomplished Glasgow neo-Baroque, as seen in the Kelvin Building.

Miller was conservative in politics and a member of both the Conservative Club and the Junior Conservative Club as well as the Glasgow Arts Club. In their RIAS Quarterly memoir of 1948 Manson and Walker described Miller as 'Very reserved by nature, he did not enter much into public life and was well content to let others talk architecture while he was doing the job. Quick tempered, he could also be very sympathetic and understanding when the occasion demanded. He was also a hard task-master, but few of the men who passed through his hands will deny that they benefited to a remarkable degree from being employed by Miller, and many of them, now successful architects on their own account later wrote to him to this effect'.

James Miller died at his house in Stirling, Randolphfield on 28 November 1947, leaving the very substantial sum of £47,931 8s 11d. The practice was then taken over by Frank Burnet Bell & Partners who completed the few buildings then in progress.

2.6 (Sir) Basil Urwin Spence (1907 – 1976)

Basil Spence was born in Bombay on 13 August 1907, the son of Urwin Spence, an analytical chemist employed by the Indian civil service, and his wife Daisy Crisp. He was initially educated at the John Connon School in Bombay, but in 1919 at the age of twelve he moved to Scotland and attended George Watson's College as a day pupil. After leaving, he enrolled at Edinburgh College of Art in September 1925, initially to study painting and sculpture. He soon transferred to the School of Architecture, studying design practice and town planning under Frank Charles Mears and Harry Hubbard, and architectural history and theory under John Summerson. Bursaries, prize money and income as a freelance perspectivist allowed him to travel extensively in England in 1927, France in 1928 and also in Germany. In 1929 he gained the College's certificate and exemption from the RIBA's intermediate examination. His brilliant draughtsmanship secured him a place in the office of Sir Edwin Lutyens, whom he assisted with the designs for the Viceroy's house, New Delhi, and while in London he took the opportunity to study at the Bartlett School of Architecture under Professor Albert Richardson.

On his return to Edinburgh Spence won the RIAS Rowand Anderson Medal during session 1930-31. In the latter year he gained his diploma from the College of Art and won the RIBA's Silver Medal as the best architectural student in the UK.

In 1934 the well-established Edinburgh architect Balfour Paul offered William Kininmonth and Basil Spence a partnership. The Kininmonth & Spence practice was merged with Paul's as Rowand Anderson & Paul & Partners. Although business had significantly recovered, to the extent that the practice secured commissions for three country houses, Spence and Kininmonth continued teaching at Edinburgh College of Art. This arrangement continued until Paul died in June 1938.

Independently of the practice, Spence won the competition for the Scottish School of Art & Industry at Kilsyth, and received three separate commissions in respect of the Empire Exhibition held at Bellahouston Park, Glasgow, in 1938. These included the highly acclaimed Scottish Pavilion which he designed in collaboration with the Exhibition's organiser, Thomas Tait.

After service in Normandy in the Second World War, Basil Spence & Partners was established with Bruce Robertson in November 1946. Andrew Renton became a partner in 1949 when he took charge of the practice's first London office. Robertson left the practice in 1950 to practise independently, and John Hardie Glover and Peter Scott Ferguson were taken into partnership in 1951.

Spence leapt to prominence during the Festival of Britain in 1951 as chief architect for the Exhibition of Industrial Power in Glasgow and the designer of the Sea & Ships Pavilion, perhaps the best of all the displays on London's South Bank. In the same year he won the competition to design the new Coventry Cathedral, and he was subsequently responsible for ten parish churches. He built several schools both in Scotland and England. Although often criticised as a picturesque designer unconcerned by the dictates of structure, his design for the north part of the Kelvin Building confirmed his mastery of complex technological briefs and led to some fifty university buildings in Scotland and England, including three major campuses at Nottingham, Southampton and Sussex. His remarkable versatility allowed him to turn his hand to major projects as diverse as the Hutchesontown C redevelopment in the Gorbals (1965) and Abbotsinch Airport (1966) in Glasgow, Hyde Park Cavalry Barracks in London (1970), and the Chancery of the British Embassy in Rome (1971).

By the 1970s he was withdrawing from everyday involvement with the three architectural practices of which he was the head. At the beginning of 1964 the original practice at Moray Place, Edinburgh had become Sir Basil Spence, Glover & Ferguson. Spence retired in 1972, although he continued to act as a consultant to the firm. In his last years he retreated to his holiday villas on Malta and Majorca, stung by a reaction against his work which was in sharp contrast to his previous popularity, but he nevertheless remained a prolific designer with a number of foreign commissions. He died at Yaxley Hall, Eye, Suffolk, on 19 November 1976.

3.0 ASSESSMENT OF SIGNIFICANCE

The significance of the Miller building and the Spence building are roughly equal. The Miller building is a large building by an architect who made an important contribution to the remarkable quality of Edwardian architecture in Edwardian Glasgow. The style makes reference to the history of the university with its Jacobean style responding to the original university buildings at their previous locations. It is an elegant design using generally English Jacobean detailing but with some more local twists. By far the most important aspect of this building was to the south. The east and west elevations were simply a foil to the south elevation. This is recognised in subsequent changes to the building which left the south unaltered. The building

has always had a relatively utilitarian interior but the entrance hall, entrance stair and main stair have been designed with some skill and care. The secondary stairs are also of interest due to the use of metal beams.

The significance of this building has been reduced by alteration. Each alteration has affected the purity or clarity of the building. However, since the most important parts of the original building are the south elevation and the lobby and stair, and since these have not been altered, the significance of this building has not been seriously damaged by alteration.

The attitude to the courtyard seems to have been mixed. The lecture theatre projects boldly into the space and has considerable design intent. But the remaining sides of the courtyard have been so altered that there is nothing left that this lecture theatre was intended to have a visual relationship with.

This means that all the proposed alterations are in places of either neutral or moderate - the lowest level – of significance. If designed with care they will not damage the significance of either the Spence or the Miller buildings.

3.1 Introduction

The assessment of significance has been made based on what is visible on the site, on the exterior of the buildings and in the rooms of Kelvin Building at the time of inspection. A paint sample analysis might also give information about the history of the buildings and changes to their appearance.

The Burra Charter provides the following definition of cultural significance:

Cultural Significance means aesthetic, historic, scientific, social or spiritual value for past, present or future generations. Cultural significance is embodied in the place itself, its fabric, setting, use, associations, meanings, records, related places and related objects.

The following assessment of the heritage value of Kelvin Building and its setting is based upon an analysis and understanding of the historical development of the site, including the tangible documentary and physical evidence, as well as intangible historical, social and spiritual associations.

The assessment of significance establishes the importance of the Kelvin Building as an item of cultural heritage. The various elements of the building have been graded according to their significance within the overall context of the site. The method for grading of significance is included in Section 3.5.

The assessment of the significance of various elements should help a designer to make the best of the architectural qualities of the building.

3.2 Historical Significance

Historical significance encompasses the importance of the relationship of a site to the evolving pattern of our cultural or natural history, or has a strong or special association with the life or works of a person, or group of persons, of importance in our cultural or natural history.

A site may have historical value because it has influenced, or has been influenced by, a historical figure, event, phase or activity, or as the site of an important event. For any given place the significance will be greater where evidence of the association or event survives in situ, or where the setting is substantially intact, than where it has been changed or evidence does not survive. However, some events or associations may be so important that the place retains significance regardless of subsequent treatment.

The historical significance in these buildings is in the history of science research and education. The buildings are associated with important architects James Miller and Basil Spence. Both parts of the Kelvin Building are strongly illustrative of university buildings of their period. The north extension is indicative of the emerging role of science at Glasgow University in the mid-20th Century.

3.3 Aesthetic Significance

The importance of the structure in terms of its contribution to an understanding of the architectural and engineering development of the site and in a broader context locally, regionally or nationally. Aesthetic value includes aspects of sensory perception such as consideration of the form, scale, colour, texture and material of the fabric.

These buildings are of high design quality. Their appearance was intended to reflect their status as important university buildings.

Each part of the building has a focal point. The south part presented its main aesthetic face southwards towards Dumbarton Way. The fact that this is the main face of the building has been respected ever since so that this is the least altered side.

The aesthetic focal point for the north part of the building is at the north west corner with the expression of the entrance hall and the stair rising up to it.

Some parts of the estate have neutral aesthetic significance - these are elements where the overall significance of the university campus would not be harmed if the element was either retained or removed. The sides of the building facing the courtyard have neutral significance.

3.4 Social Significance

Social value represents the strong or special association of the site with a recognisable community or cultural group for social, spiritual or cultural reasons.

All university buildings have social or communal significance for the people who have worked, studied and taught there.

3.5 Grading of Significance

The various elements of the site have been assessed and graded to assist with the conservation and management of the site and its elements.

Grading of the individual elements of the site is based on the contribution each element makes to each component of significance, (i.e. historic, archaeological, aesthetic, landscape, social and ecological) whether it be at a local (within University of Glasgow campus), or regional (Glasgow and the West of Scotland) level.

The elements of the building and site are graded according to the following criteria.

Elements of Considerable Significance

A building or element of local importance, or an element that contributes to the importance of the building or site overall, or the element to which it is a part.

Elements of Moderate Significance

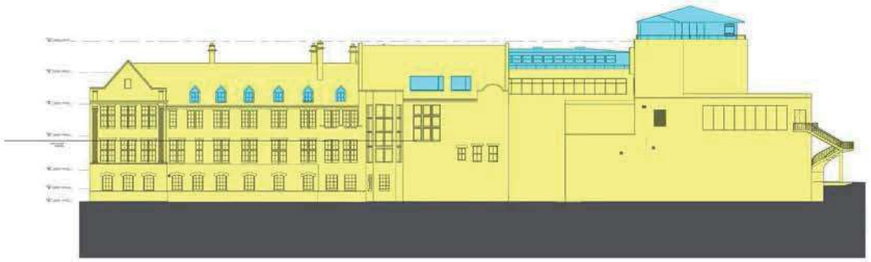
A building or element that contributes to, but is not a key element to the importance of the site overall.

Neutral Elements

An element which neither contributes, nor detracts from the importance of the building or site overall.

Negative Significance

A building or element which detracts from the overall significance of the building or site.

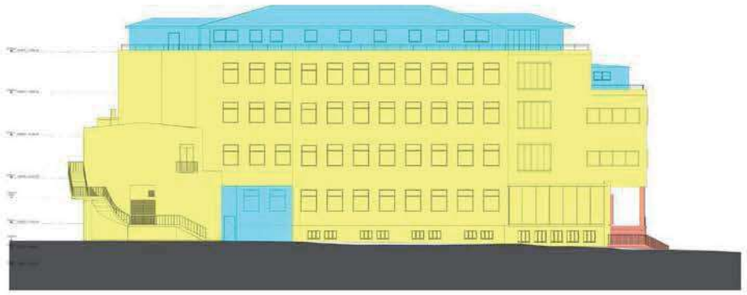


UNIVERSITY OF GLASGOW, KELVIN BUILDING

East Elevation as Entire Significance

Significance | Simpson & Brown Architects / Keppie Design | Scale 1:200 @ A3 | February 2018

Considerable Significance
Moderate Significance
Neutral

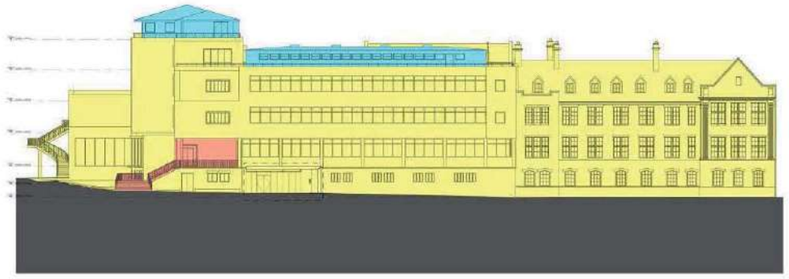


UNIVERSITY OF GLASGOW, KELVIN BUILDING

North Elevation as Proposed Significance

Significance | Simpson & Brown Architects / Keppie Design | Scale 1:200 @ A3 | February 2018

Considerable Significance
Moderate Significance
Neutral



UNIVERSITY OF GLASGOW, KELVIN BUILDING

West Elevation as Entire Significance

Significance | Simpson & Brown Architects / Keppie Design | Scale 1:200 @ A3 | February 2018

Considerable Significance
Moderate Significance
Neutral

4.0 IMPACTS

4.1 The Proposals

The proposals can be considered as fairly significant interventions to make alterations to improve access throughout the buildings.

The key focus is on the accessibility aspects to meet obligations laid out in the Equalities Act for access and to demonstrate the approach has sought to improve access without materially impacting on the most significant aspects of the building.

4.2 List of Impacts

The heritage impacts of the current application proposals are;

- Alterations to form a new entrance at the basement level of the Spence building.
- Alterations to add a lift.
- Alterations to loading bay.
- General alterations to interiors.
- New bridge to building on east side.

Research into the window colours should be undertaken on this building.

In the medium term some cleaning of the limestone will be required together with some maintenance of the metal frame windows.

4.3 Alterations to form a new entrance

For reasons of access and presentation, the Spence building needs to have a new entrance at ground floor level. The ground floor contains a pend through to the courtyard which is no longer needed in this form. This work will be identifiably an alteration. The alteration in this position will protect the more significant stair access that rises to the north-west entrance, from change. Since this entrance is the main set piece in Spence's design, it is more desirable to create a new entrance than to fundamentally alter the steps and balcony to the current entrance to provide

acceptable or legally compliant access. The overall entrance can be left unchanged which is desirable in conservation terms

The new entrance will break through the stone plinth. Spence's design does contain a stone plinth as an important part of the design but it is mainly detailed as a band. The proposed design retains the obvious difference between ground floor and the upper floors will be retained. Spence detailed a pend to cut through the plinth band. The current design takes the lead from this signal in Spence's design that it was appropriate to cut through the plinth. The design will be legible as an alteration, as it should be. It needs to be identifiable as a point of entrance to the building but it should not dominate or distract attention from the original Spence entrance. Its impact is minimal in conservation terms although, naturally, a new entrance needs to be visually prominent.

As long as they are mitigated by careful design and good masonry practice, this alteration will have neutral effect on the overall significance of the building. The impact is therefore negligible.

4.4 Alterations to add a lift

The lift will be set within the corner of the courtyard. It would also be clearly legible as an intervention. Alterations to the courtyard elevations of either the Miller or the Spence buildings would have a negligible effect on the overall significance of the building.

4.5 Alterations to loading bay

The loading bay is on the north side of the Spence building. It was a practical element and it is set some distance away from the aesthetic detail of the building which is on the north-west corner and, to a lesser extent, on the west elevation. Alterations to the loading bay do not affect the overall character of the building as

long as the opening to the loading bay remains legible as a former opening - for instance by using a different walling material.

4.6 General alterations to interior

Generally, internal alterations do not affect the significance elements of the building. Any improvement to the Spence entrance hall, for instance by removing later accretions and the non-original porter's lodge is to be welcomed in conservation terms.

The most significant aspect of these doors is their appearance. They could either be upgraded or replaced. In either case the resulting design and appearance should be similar to the current appearance.

4.7 Mitigation work to the Entrance Hall

The Kelvin Building entrance hall was designed for display and for access. Certain works are desirable which would considerably improve its appearance. The stair is one of the elements that is least changed from the original arrangement with the twisted handrail being an example of craftwork which from a sensibility which dates from Spencer's early career pre-modern style. Some vertical members are missing from the handrail and others are lose and could be re-fixed. The colour on the underside of the stairs could be checked and re-painted.

The lift possibly had self-coloured mesh originally with painted uprights and doors finished to be as close to the mesh colour as possible. The impression is dark on the 1990s photographs. The original tones and colours should be restored. Accretions, notice boards etc. should be removed.

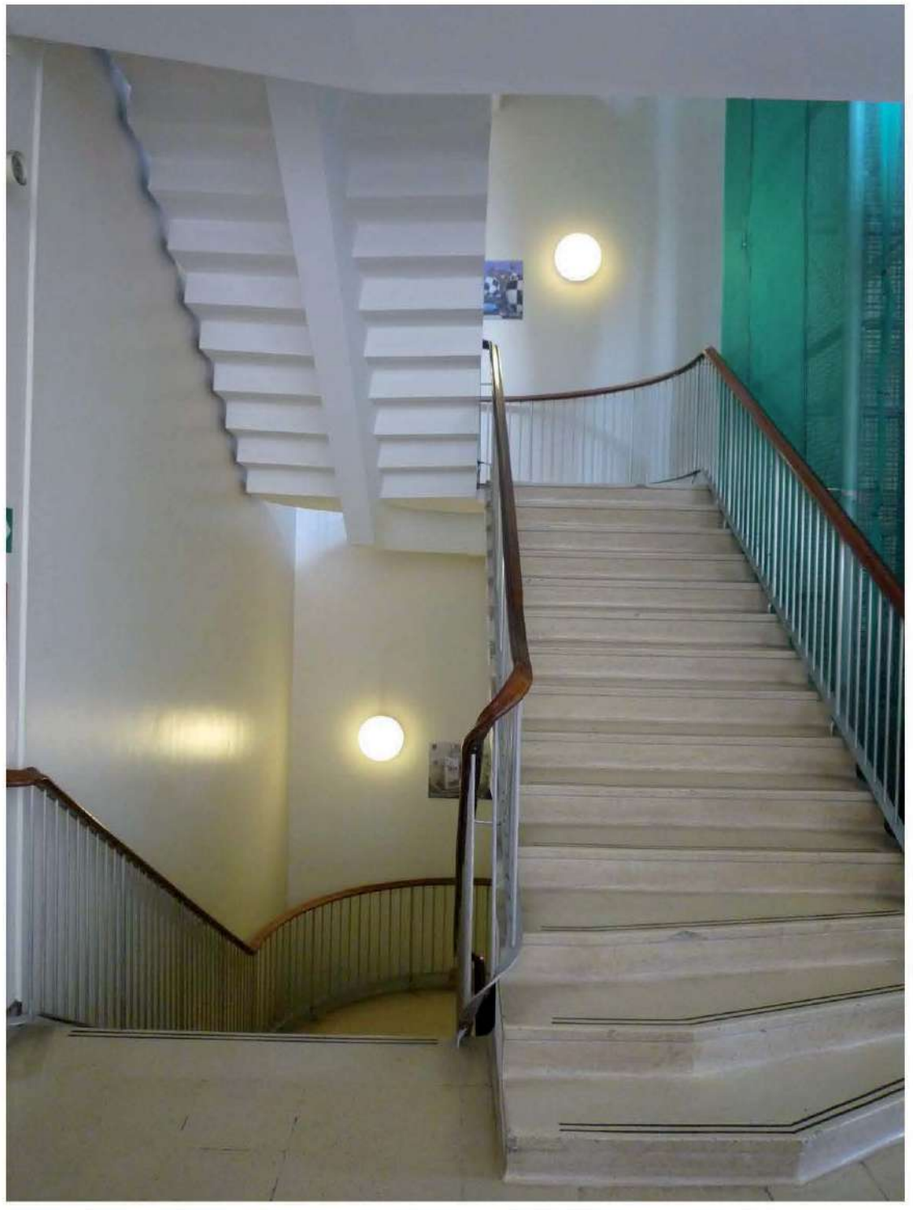
On the ceiling, the current duct which passes around the stairwell is an unfortunate intrusion which should be removed if possible.

The east wall was painted a brown colour as seen in 1990s photographs. If this is found to be an original colour it should be reinstated. The painting should be reinstated if possible as well. Ducts, notice boards, heaters preferably should be removed to reinstate this to a single colour wall with as few obstructions as possible.

The column is shown as being a dark colour on the 1990s photograph. Again the paint could be analysed to return it to original colours.

The column had light fittings around it as shown in the 1990s photograph rather than in the existing strip lights. The existing strip lights are of poor quality and the original light fitting should be returned or a similar design used to give the original impression.

The curving display screen was suspended in position with rods to lock it up into position from the floor. It is unlikely that the display screen could be reinstated. Photographs should be mounted within the display boards on the west wall to show how this space looked. The positions of the suspension wires and marks from other original light fitting positions should be left in place.



On the west wall, the notice boards against the northern part of the west wall should be retained. Other clutter such as the phone box and screens, crisps and drinks machines should be removed.

The existing lobby is an unfortunate replacement for the revolving doors installed at the Spence period. The building would look better without the lobby. During removal there should be some recording in case some structural timbers survive.

The Porters' Lodge adds to the cluttered appearance. There is a possibility that some framing timbers survive in the lower part but all of the cladding and all of the surfacing within this element is not original and has been fitted since 1990. The desk

is also in a different position to the original. The Spence drawing shows the original desk set at an angle to the wall behind and also at an angle to the grid of the floor. The desk survived until 1990. It had a ribbed front face similar to joinery installed in rooms 222 and 506. The ribs in 222, the lecture theatre, have a boat keel shape. This front face and ribs no longer survive and the desk no longer survives in position.

4.8 Upgrading Doors

The proposals will affect doors throughout both north and south parts of the Kelvin Building. Not all the doors are affected, only doors that need to be upgraded to provide fire protection around stairs or to places of particular fire risk.

The most important doors in the building are the ones associated with interiors of high significance. These are the doors on the north and south sides of the corridors on level 2, 3 and 4 of the north block. These corridors are finished to a high standard with a particular 1950s character of design. The doors to the individual classrooms or labs have glazed panels with curved corners. They have a distinctive design and these doors should be retained because they contribute to the overall character of the interior. These doors are not affected by the proposals so there is no impact from the proposals on the most significant internal joinery.

It seems possible that Building Control requirements, when this building was first designed in the late 1940s, did not require separation between corridors and stairs. All of the partition screens, including the doors, appear to be alterations. The detailing on these doors is different to the doors to the north and south of the main corridors but similar to the detailing on level 7 to the north block. It is possible that these screens were added at the same time as the north part of level 7 was added. These doors are not part of the original design and so have less significance. They are, however, doors designed by Basil Spence's practice. Their appearance and design should be respected but the significance of these doors is not sufficient to prevent the necessary change, upgrading or replacement that means that the building can meet appropriate fire safety standards to protect the building and its occupants.

In the south part of the Kelvin Building, the part designed by James Miller, doors have been added across corridors to protect the main stairs. It seems possible that the stairs were not protected in the original design. These doors do not meet current standards for protection of a stairwell. In the design of the current doors an attempt has been made to replicate the joinery pattern, the amount of glazing and the overall appearance of the original doors within this building. All of the doors have been painted the same colour. The way that doors have been replicated has not been particularly accurate but, superficially, the introduced doors have similar appearance to the originals.

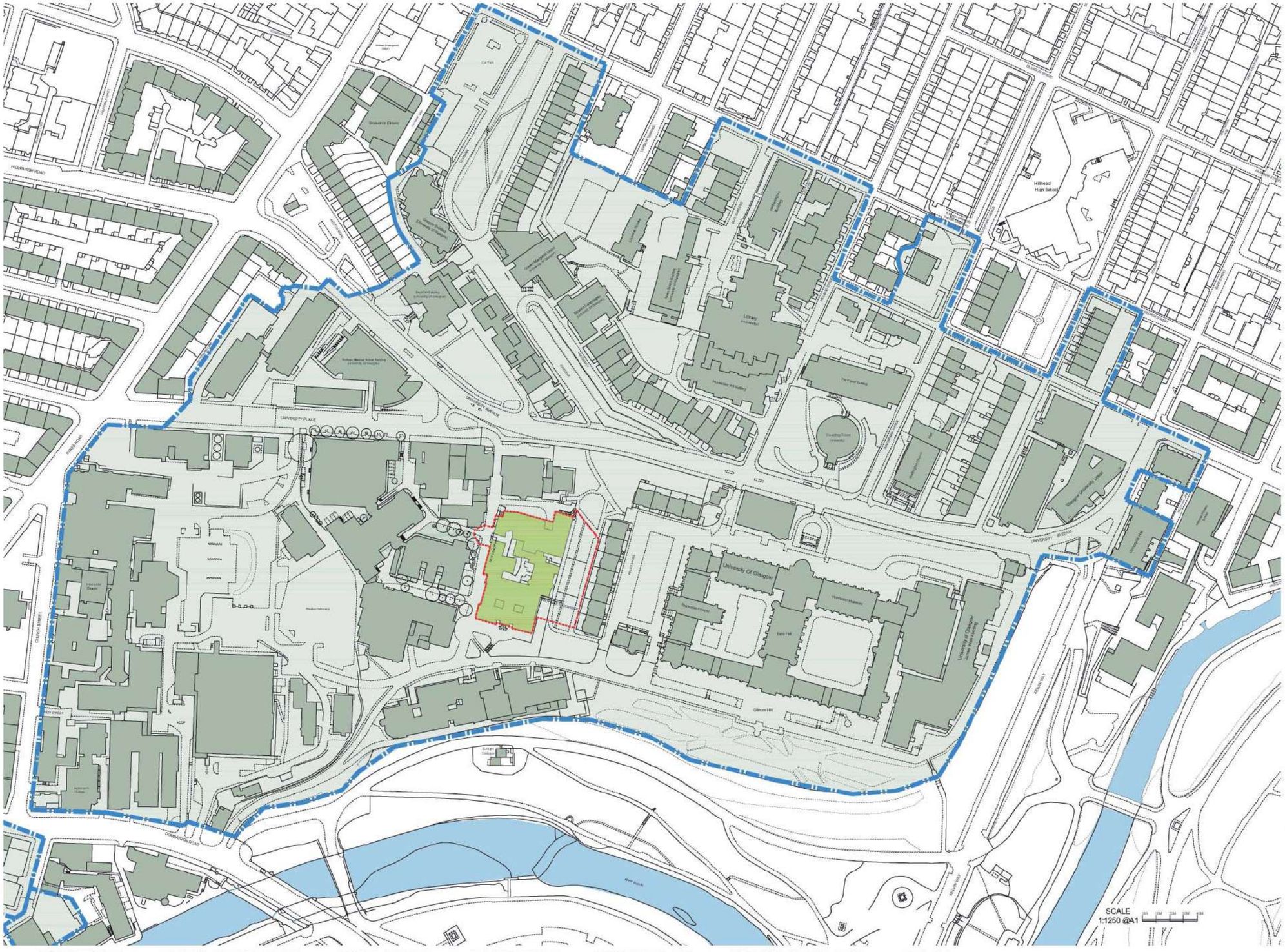
The doors that are intended to be altered as part of these proposals are all either doors which have been introduced during the mid-late 20th century for fire protection of stairs, or doors which have been significantly altered from their original appearance. The corridors in the south part of the Kelvin Building have an overall character which is attractive, if not particularly significant. The character and moulding design of the original doors contributes significantly to this character. For this reason the upgrading of fire doors to meet current standards should respect and respond to the design of the original doors. The same mouldings should be used, the same overall appearance and, where appropriate, the same glass design. As long as a similar appearance is maintained, it does not matter to the overall significance of the building if the doors proposed for alteration are altered, upgraded or replaced.

4.9 Bridge to East

The bridge link connects to the east side of the Miller building. This side of the building can, and has, sustained change without detracting from the overall significance of the Kelvin building. It can certainly sustain a carefully designed and attractive bridge which will not detract from the building and could be considered to be an improvement. The detailing of the new access should be in keeping with the character of the surrounding masonry of the existing windows. The bridge will be designed to have minimal physical impact on the existing building.

Mitigation should be by recording and by the quality of the design including landscape design.

4.2 Location Plan & GA’s



Revision

Drawn:	Check:	Date:
Revision		
Drawn:	Check:	Date:
Revision		
Drawn:	Check:	Date:
Revision		
Drawn:	Check:	Date:
Revision		
01 ISSUED FOR DETAILED PLANNING AND LBC		
Drawn: PG	Check: KG	Date: 27.06.17

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Project
KELVIN BUILDING PHASE 1 WORKS

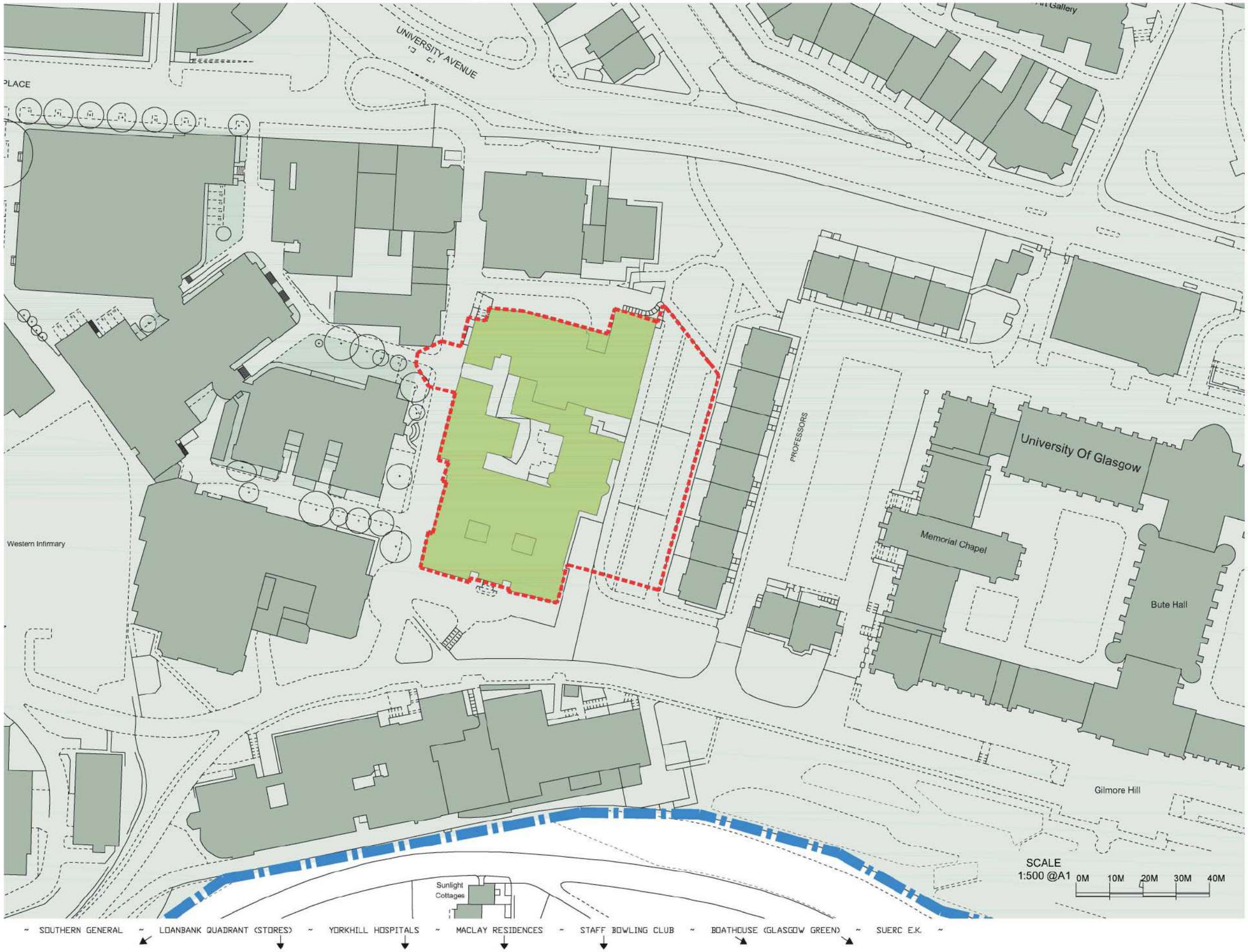
Drawing
Location Plan

Project No.
P17-051

Drawing No.: KEP-KB-00-DR-A-0090-0001 Rev.: 01

Status
PLANNING

Created: PG Checked: KG
Date: APR 2017 Scale: 1:250 @A1



CDM
Hazard Elimination & Risk Reduction has been undertaken and recorded where appropriate, in accordance with the requirements of "The Construction (Design and Management) Regulations 2015" and the "Industry Guidance for Designers".

KEY:

- Kelvin Building
- Proposed Site
- Land Owned by Client

N

Revision

Drawn	Check	Date
Revision		
Drawn	Check	Date
Revision		
Drawn	Check	Date
Revision		
Drawn	Check	Date
Revision		
01 ISSUED FOR DETAILED PLANNING AND LBC		
Drawn - PS	Check - KG	Date - 17.05.17

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Project
KELVIN BUILDING PHASE 1 WORKS

Drawing
Site Plan
As Existing

Project No.
F17-051

Drawing No. | Rev.
KEP-KB-00-DR-A-0090-0002 | 01

Status
PLANNING

Created • PS | Checked • KG
Date • APR 2017 | Scale • 1:500 @A1

KEY:

- Kelvin Building
- Proposed Site
- Land Owned by Client

N

Revision

Drawn	Chkd	Date
Revision		
Drawn	Chkd	Date
Revision		
Drawn	Chkd	Date
Revision		
Drawn	Chkd	Date
Revision		
01 ISSUED FOR DETAILED PLANNING AND LBC		
Drawn PW	Chkd RG	Date 17.05.17

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Project
KELVIN BUILDING PHASE 1 WORKS

Drawing
Site Plan
As Proposed

Project No
P17-051

Drawing No: KEP-KB-00-DR-A-0090-0003 Rev 01

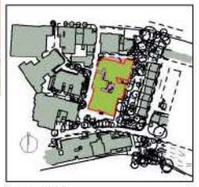
Status
PLANNING

Created PG Checked MS
Date APR 2017 Scale 1:500 @A1

P1 - MAIN STORES

P2 - SECONDARY STORES

P3 - GOODS IN ENTRANCE



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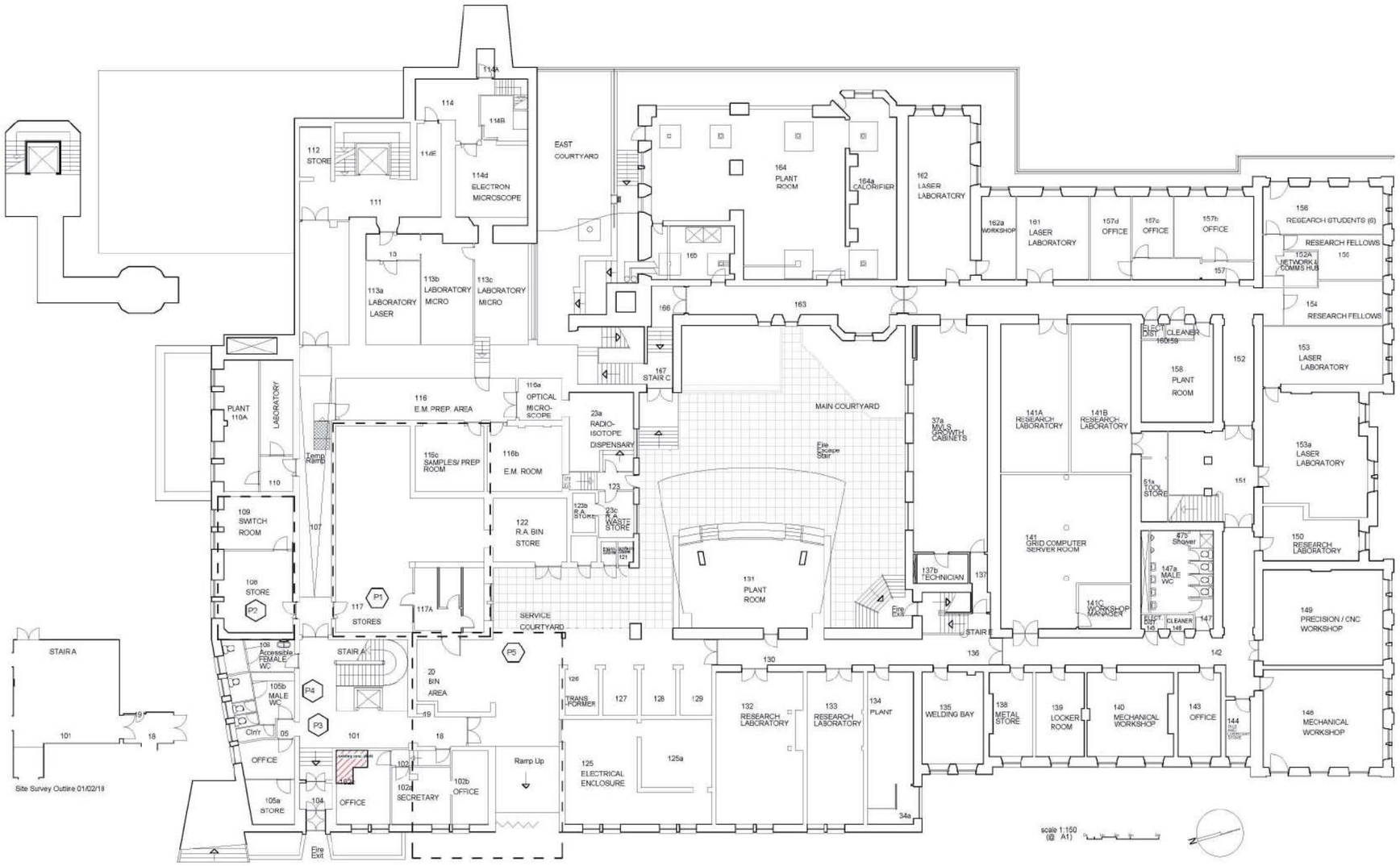

P4 - ACCESSIBLE WELFARE FACILITIES (WCS/ BABY CHANGE)

P5 - PEND ENTRANCE

Revision
01 ISSUED FOR DETAILED PLANNING AND LBC

Drawn: PS Check: KS Date: 17.09.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Existing Floor Plan
Level 01

Project No.
P17-051

Drawing No. / Rev.
KEP-KB-01-DR-A-7050-0010 / 01

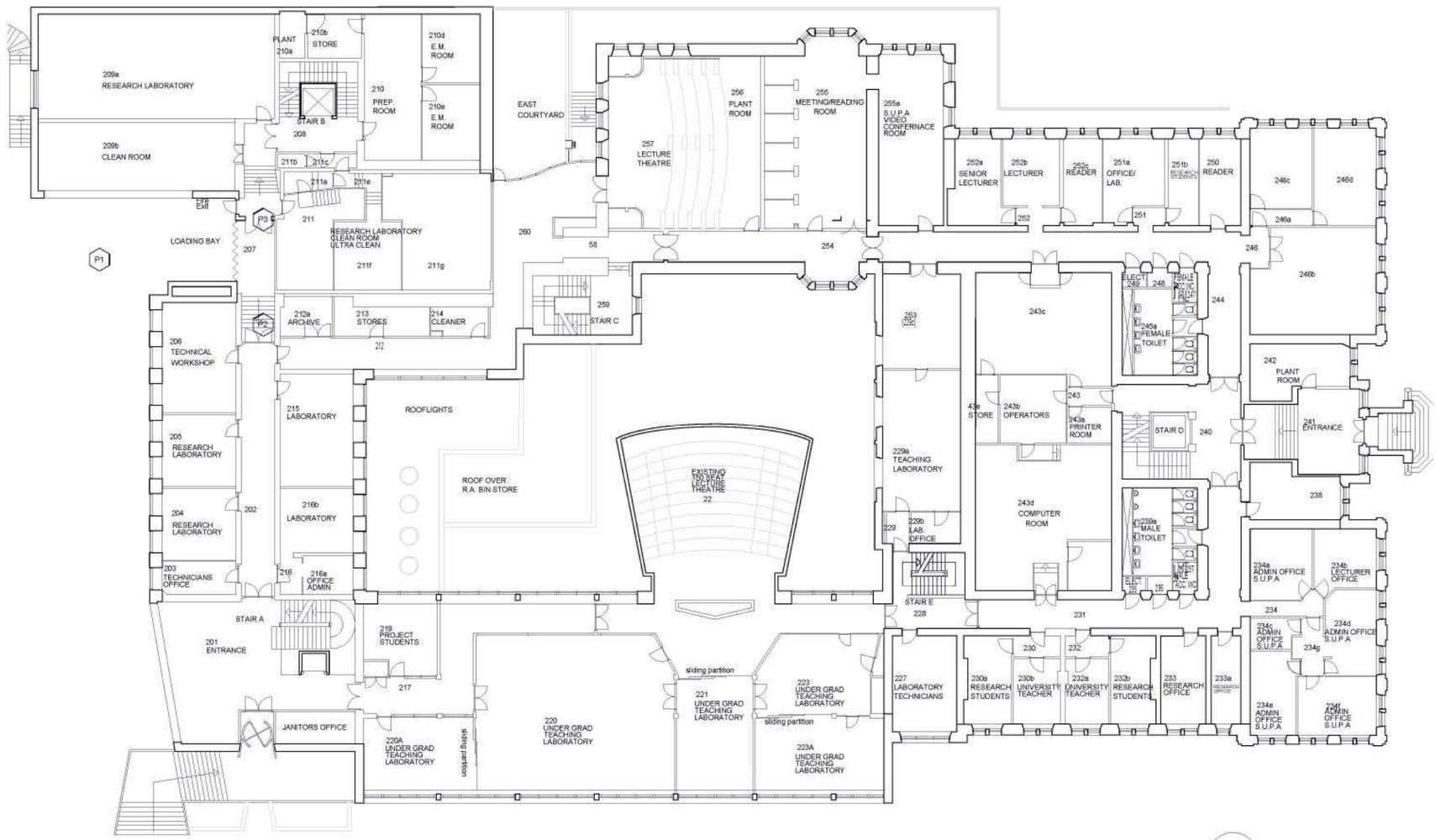
Status
PLANNING

Created: • 3D Checked: • KS
Date: • 13/09/18 Scale: • 1:150 @ A1

P1 - Loading Bay (External)

P2 - Loading Bay (Internal)

P3



scale 1:150 (@ A1)

KEYPLAN NTS

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn: PD Chk'd: RS Date: 17.05.18
Revision
01 updated and issued for information
Drawn: RS Chk'd: DS Date: 03.01.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Existing Floor Plan
Level 02

Project No.
P17-051

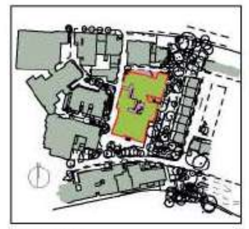
Drawing No.: Rev.
KEP-KB-02-DR-A-7060-0010 02

Status
PLANNING

Created • SD Checked • RS
Date • 13/03/18 Scale • 1: 150 @ A1


P1 - 57 LOBBY


P2 - EAST ELEVATION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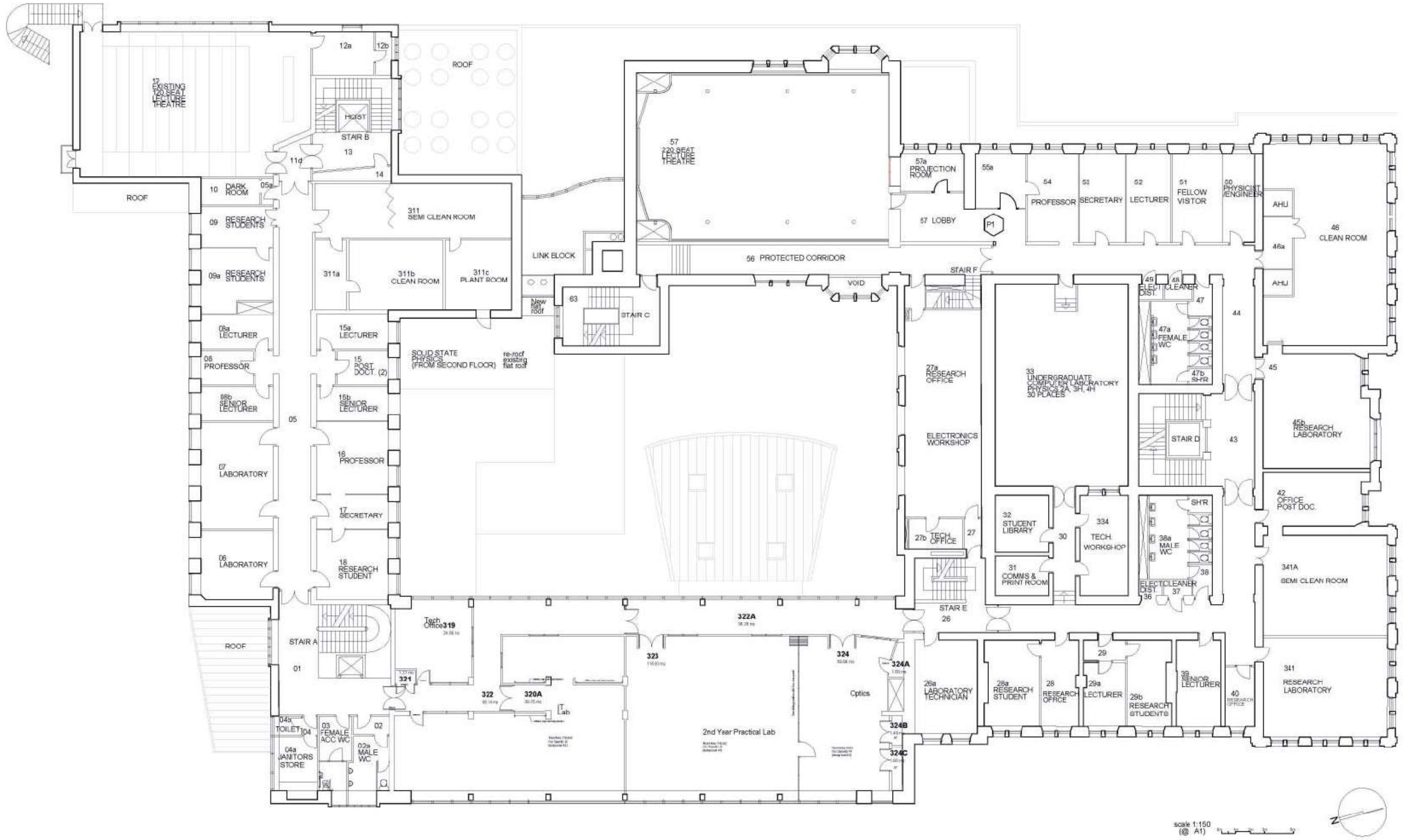

Revision
01 ISSUED FOR DETAILED PLANNING AND LBC

Drawn: PG | Chk'd: RS | Date: 17.08.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Existing Floor Plan
Level 03

Project No.
P17-051

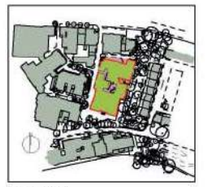
Drawing No.
KEP-KB-03-DR-A-7060-0010

Rev.
01

Status
PLANNING

Created • SD | Checked • RS
Date • 13.08.18 | Scale • 1:150 @ A1

P1 - 68 LOBBY



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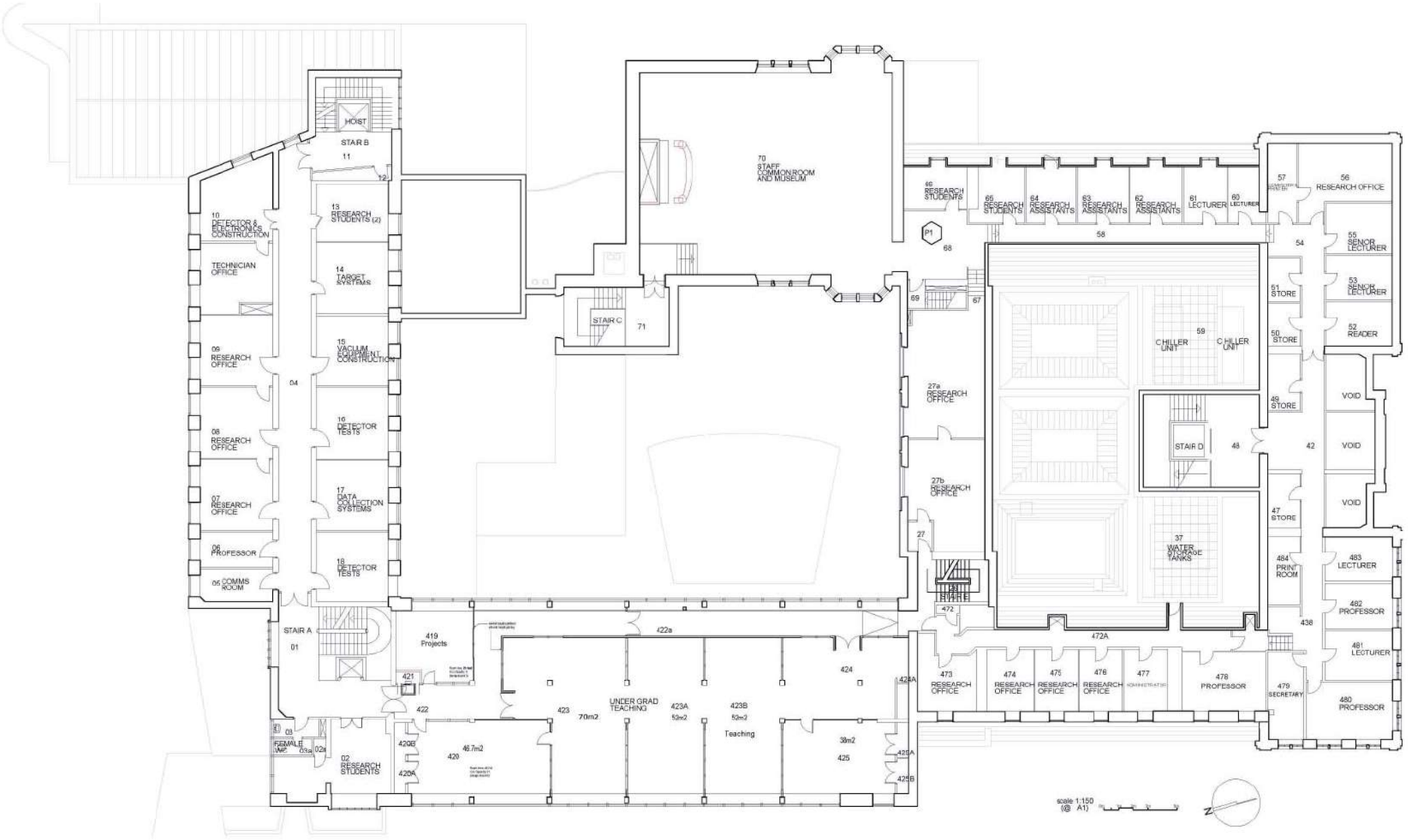

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn: DAD Check: SCO Date: 17.02.17
Revision
01 Drawing updated and reissued
Drawn: KG Check: KG Date: 30.09.17

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Project
KELVIN BUILDING
PHASE 1 WORKS

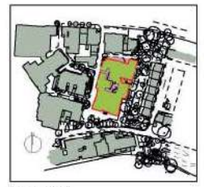
Drawing
Existing Floor Plan
Level 04

Keppie No.
P17-051

Drawing No. | Rev.
KEP-KB-04-DR-A-7060-0010 | 02

Status
PLANNING

Created • SD Checked • KG
Date • 19/09/15 Scale • 1:150 @ A1



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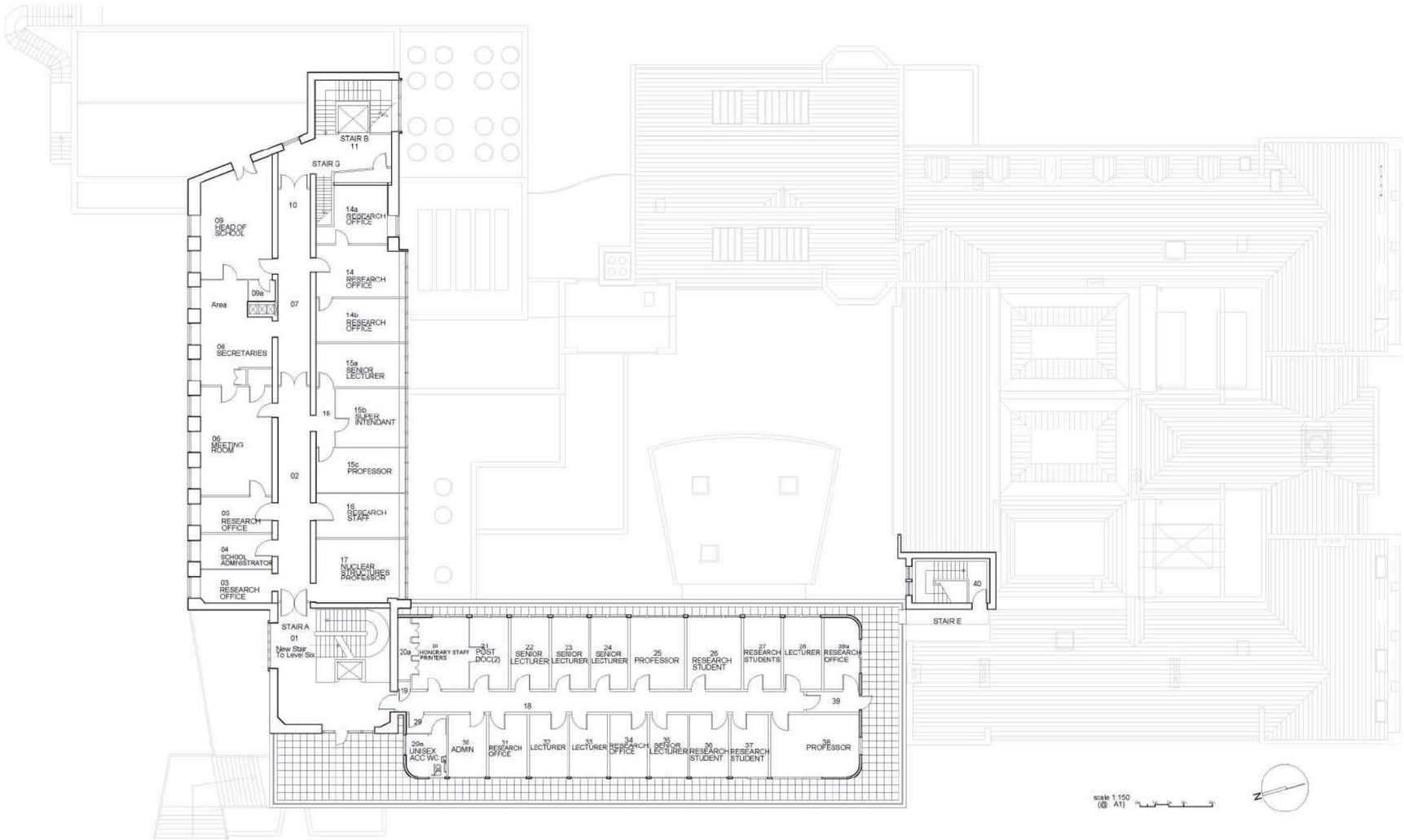

Revision
01 ISSUED FOR DETAILED PLANNING AND LBC

Drawn: PW Chkd: KS Date: 11/09/15

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Project
KELVIN BUILDING
PHASE 1 WORKS

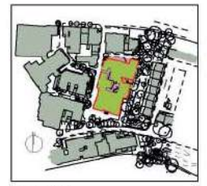
Drawing
Existing Floor Plan
Level 05

Project No.
P17-051

Drawing No. Rev.
KEP-KB-05-DR-A-7060-0010 01

Status
FOR PLANNING

Created ✦ SD Checked ✦ KS
Date ✦ 10/09/15 Scale ✦ 1:150 @A1



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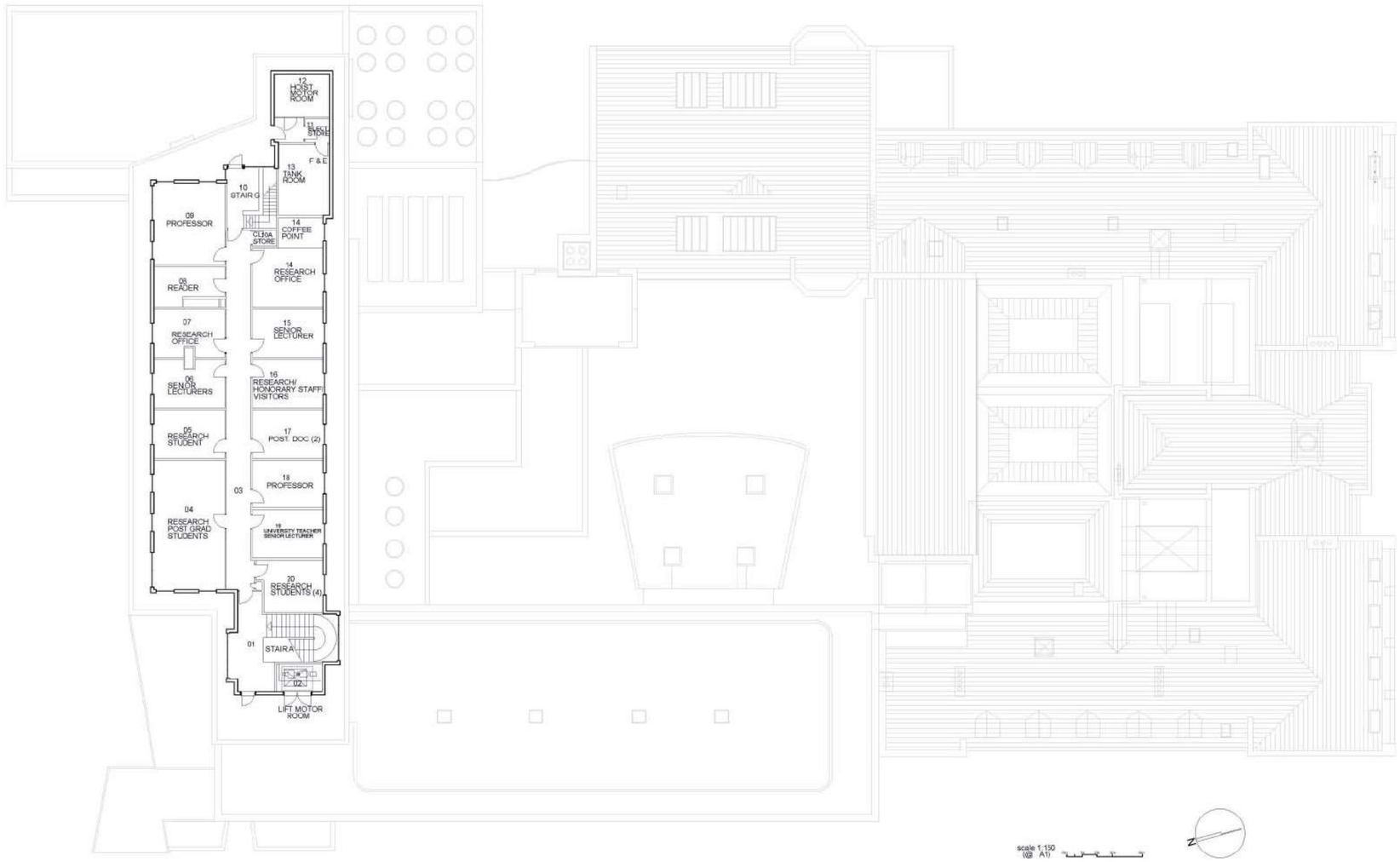

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(@ A1)

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC

Drawn : PG Check: RS Date : 17.09.18

Revision
01 Updated for Stage 3 issue

Drawn : TC Check : RS Date : 15.03.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Existing Floor Plan
Level 06

Project No
P17-051

Drawing No
KEP-KB-06-DR-A-7060-0010

Rev
02

Status
FOR PLANNING

Created ✦ SD Checked ✦ RS
Date ✦ 08/2018 Scale ✦ 1:150 @ A1

1. Formation of New Entrance

Downtakings

2. Existing doors and frame to be removed and handed over to client
3. removal of internal walls (loadbearing/ non load bearing) to allow for configured main reception area
4. adjustment of existing services to allow for new works (i.e. mechanical and electrical)
5. adjustment of high level window to rear into store area/ alteration to stone wall to allow for impact of new lift

Proposed works

6. Formation of new entrance screen i.e. Metal technology system 17HR 200mm curtain walling system (refer to drawing for extent - height approx. 3m)
7. Formation of glazed double door within curtain walling system (i.e. Automated)
8. New lightweight acoustic partition to be formed to rear of reception forming incoming store area (i.e. Wall Type 1)
9. Formation of new reception desk (i.e. 12mm Corian on timber support framing) - allowance for co-ordination of services
10. Allowance for new ceiling raft system with integrated lighting within main reception/ lift lobby. Exposed soffit painted out matt black
11. Allowance for new flooring finishes within new reception/ lobby and rear store area
12. Allowance for new lighting/ services (refer to MEP spec)
13. Allowance for access control to main doors (refer to MEP spec)
14. Allowance for new soffit to u/s of entrance pend (i.e anodized aluminium planks to match canopy with recessed LED strip lighting - height to provide a minimum head clearance of 3m)

Formation of new Lift
General - Lift to be an 'Evacuation Lift' conforming to BS 9999 and designed and installed in accordance with BS EN 81-20 and BS EN 81-70.

Steel frame with lightweight infill forming Lift shaft spanning 5 floors plus pit.

Suggested lift specification:
- Schindler 5500 or equivalent and consented to.
- 21 person 1600kg
- 1.0m/s
- single car entrance to front
- 2125mm (w) x 2550mm (d) shaft size - t.b.c.
- 1550mm (w) x 2150mm (d) x 2300mm (h) car size - t.b.c.
- 1100mm door width x 2100mm high or similar.
- Equality Act Compliant
- low smoke cabling

Formation of Goods Lift
General - New goods platform lift to be installed at Goods In Area.

Suggested lift specification:
- 'Stannah Levelmaster' or equivalent and consented to.
- Standard Load - 2000kg
- Platform Size - 1100 x 1200mm (to suit available space)
- Speed - 0.05m/s
- Control System - constant pressure
- Power Supply - 415v 50 Hz three phase and earth

Wall Type 01
1 hour fire-rated acoustic separating partition (separating store and reception)

Overall thickness 122mm
2no. layers 12.5mm Soundbloc over
70mm Gypframe 'C' Studs at 600mm ctrs with 25mm Isover APR 1200 centered within stud cavity.

Max partition height 4000mm
Sound Insulation 52Rw dB
British Gypsum System Reference A206198

Allow for 50% of wall for pattressing in relation to shelving and fixtures.

Wall Type 02
12.5mm 'Duraline' on 'Gyplyner' to existing walls/columns etc.

2. Formation of storage delivery area with new platform lift

Downtakings

1. Existing internal double doors and partial solid walls to be removed to allow for widening of area.
2. removal of existing steps to allow for new platform lift.

Proposed works

3. Formation of new platform lift (i.e. 1200x 1600) with formation of new steel steps
4. Allowance for access control

3. Reconfiguration of existing wc's from Male to Female

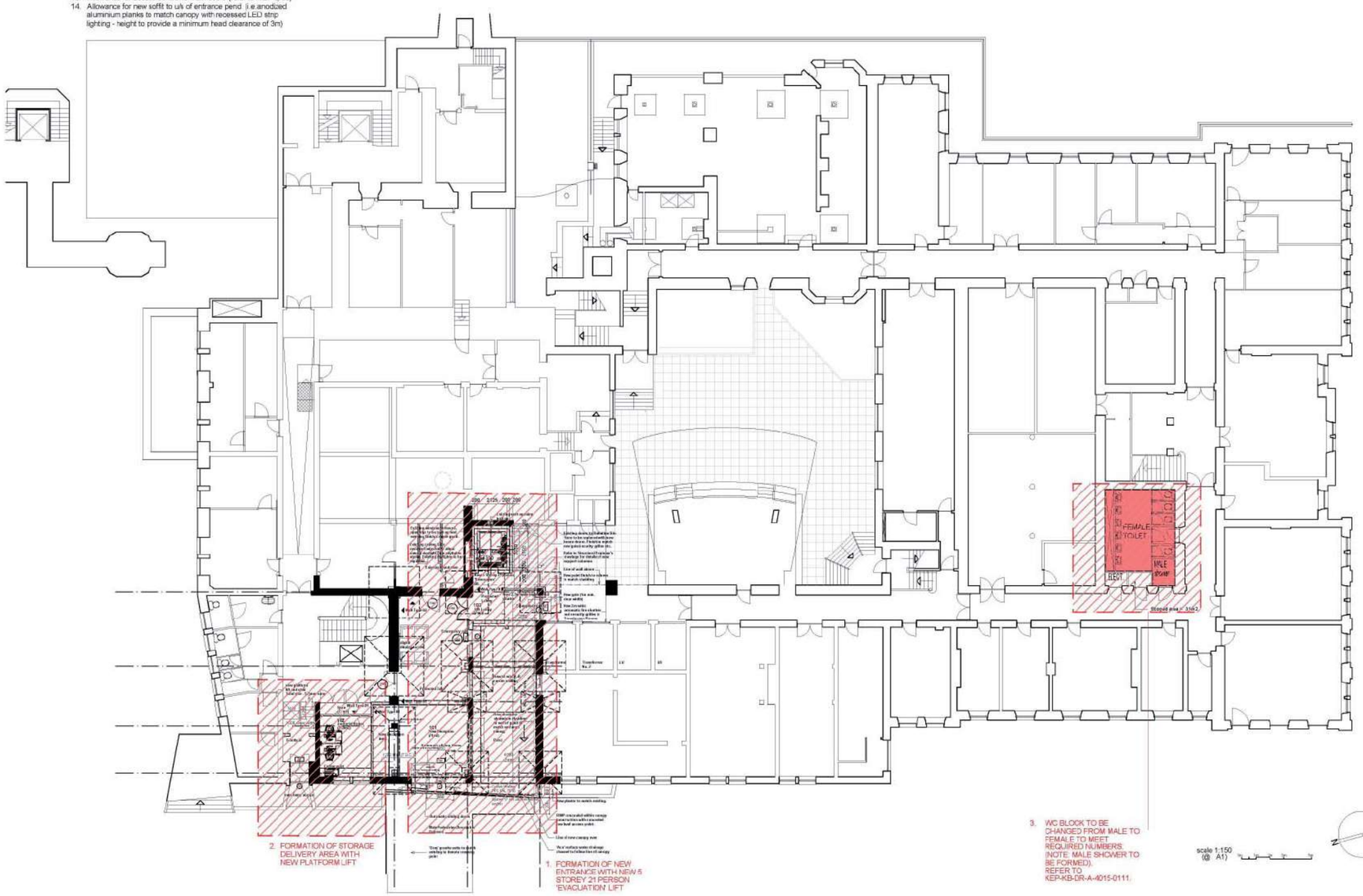
Downtakings

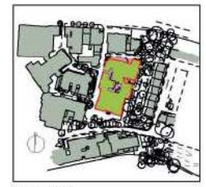
1. Removal of urinals
2. Formation of slapping within existing opening onto corridor to allow for reconfigured entrance

Proposed works

3. Reconfiguration of cubicles as well as formation of new shower off main corridor
4. Make good finishes

Extent of Phase 1 agreed works





KEYPLAN NTS

Revision			
13	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn: PG	Check'd: RG	Date:	17.05.18
Revision			
12	Updated for Planning (reduction in canopy, new planter, road crossing surface).		
Drawn: GB	Check'd: RG	Date:	24.04.18
Revision			
11	Issued for Planning		
Drawn: GB	Check'd: RG	Date:	24.04.18
Revision			
10	Lift footprint adjusted to clear existing founds.		
Drawn: TD	Check'd: RG	Date:	10.04.18
Revision			
09	Lift footprint adjusted to accord with with existing founds.		
Drawn: TD	Check'd: RG	Date:	16.03.18
Revision			
08	Existing founds indicated (from record drawings).		
Drawn: TD	Check'd: RG	Date:	19.02.18
Revision			
07	Potential new column indicated and notes added.		
Drawn: TD	Check'd: RG	Date:	12.02.18
Revision			
06	Amended and re-issued for Stage 3 issue.		
Drawn: TD	Check'd: RG	Date:	19.01.18
Revision			
05	Updated for Stage 3 issue.		
Drawn: TD	Check'd: RG	Date:	14.12.17
Revision			
04	New lift indicated to accord existing found - Stage 3 issue.		
Drawn: RG	Check'd: RG	Date:	10.01.18
Revision			
03	updated and Reissued for information Rotter Shutter and Secure gate added to Ferrol		
Drawn: RG	Check'd: RG	Date:	10.01.18
Revision			
02	updated and Reissued for information		
Drawn: RG	Check'd: RG	Date:	29.09.17
Revision			
01	updated and issued for information		
Drawn: RG	Check'd: RG	Date:	28.09.17

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Floor Plan as Proposed
Level 01

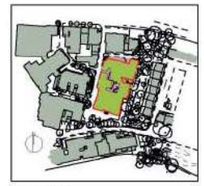
Project No.
P17-051

Drawing No.: KEP-KB-01-DR-A-7060-0110 Rev: 13

Status
PLANNING

Created: HDD Checked: RG
Date: 25/7/17 Scale: 1:150 @A1

Extent of Phase 1 agreed works



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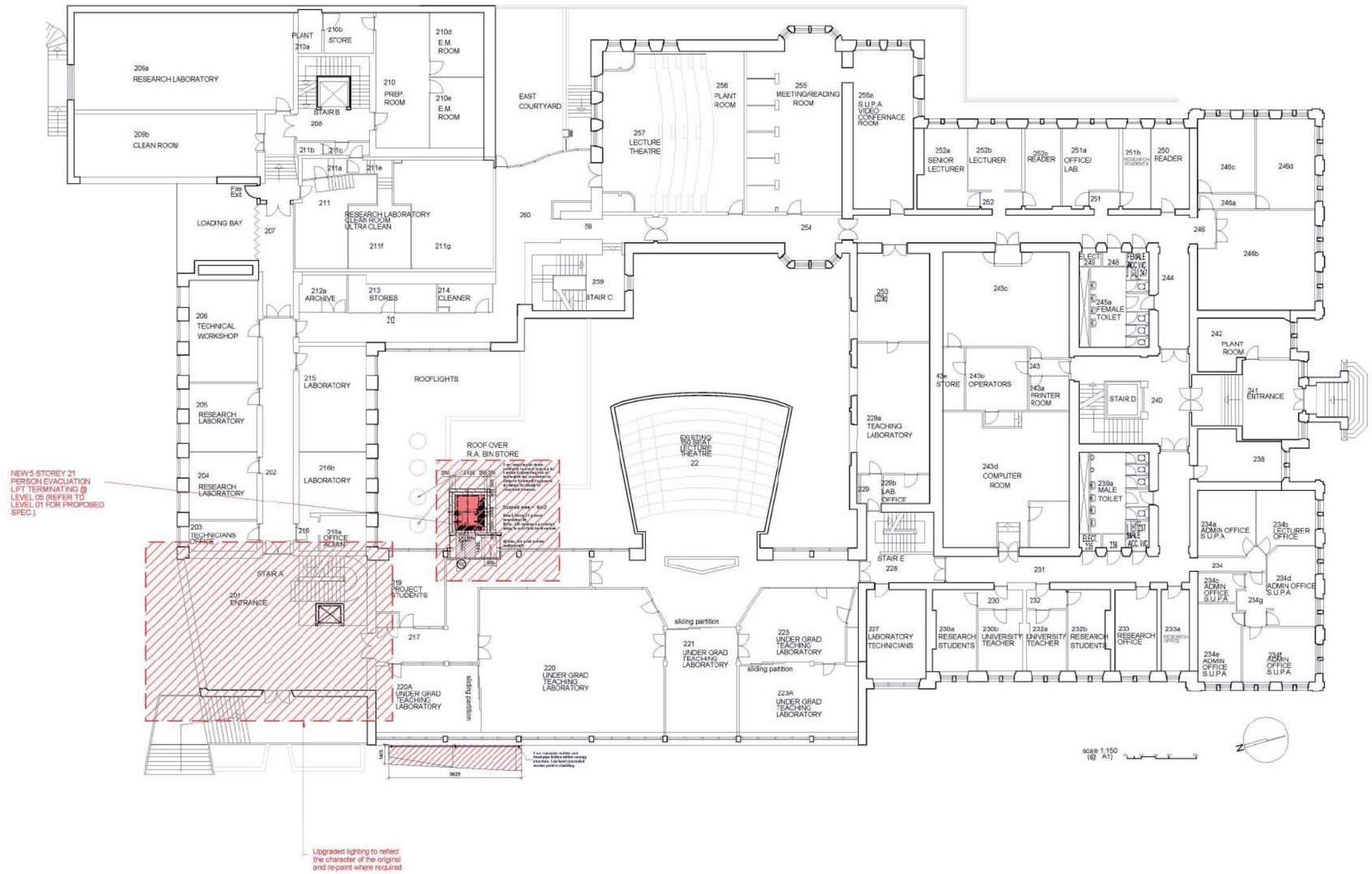

Revision			
10	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn: PG	Check'd: KG	Date: 17.09.19	
Revision			
09	Proposed works to Loading Bay omitted as agreed at meeting on 26/09/19		
Drawn: TD	Check'd: KG	Date: 13.07.19	
Revision			
08	Lift footprint amended to clear existing founds.		
Drawn: TD	Check'd: KG	Date: 10.04.19	
Revision			
07	Lift footprint amended to avoid clash with existing founds		
Drawn: TD	Check'd: KG	Date: 18.04.18	
Revision			
06	Notes added/amended		
Drawn: TD	Check'd: KG	Date: 12.03.18	
Revision			
05	Amended and re-issued for Stage 3		
Drawn: TD	Check'd: KG	Date: 16.02.18	
Revision			
04	Updated for Stage 3 issue		
Drawn: TD	Check'd: KG	Date: 14.02.18	
Revision			
03	updated for Stage 3 issue		
Drawn: TD	Check'd: KG	Date: 09.02.18	
Revision			
02	updated and Reissued for information		
Drawn: PG	Check'd: KG	Date: 29.08.17	
Revision			
01	updated and issued for information		
Drawn: PG	Check'd: KG	Date: 08.08.17	

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Floor Plan as Proposed
Level 02

Keppie No.
P17-051

Drawing No.
KEP-KB-02-DR-A-7060-0110

Rev
10

Status
PLANNING

Created: HDD | Checked: KG
Date: 25/7/17 | Scale: 1:150 @ A1

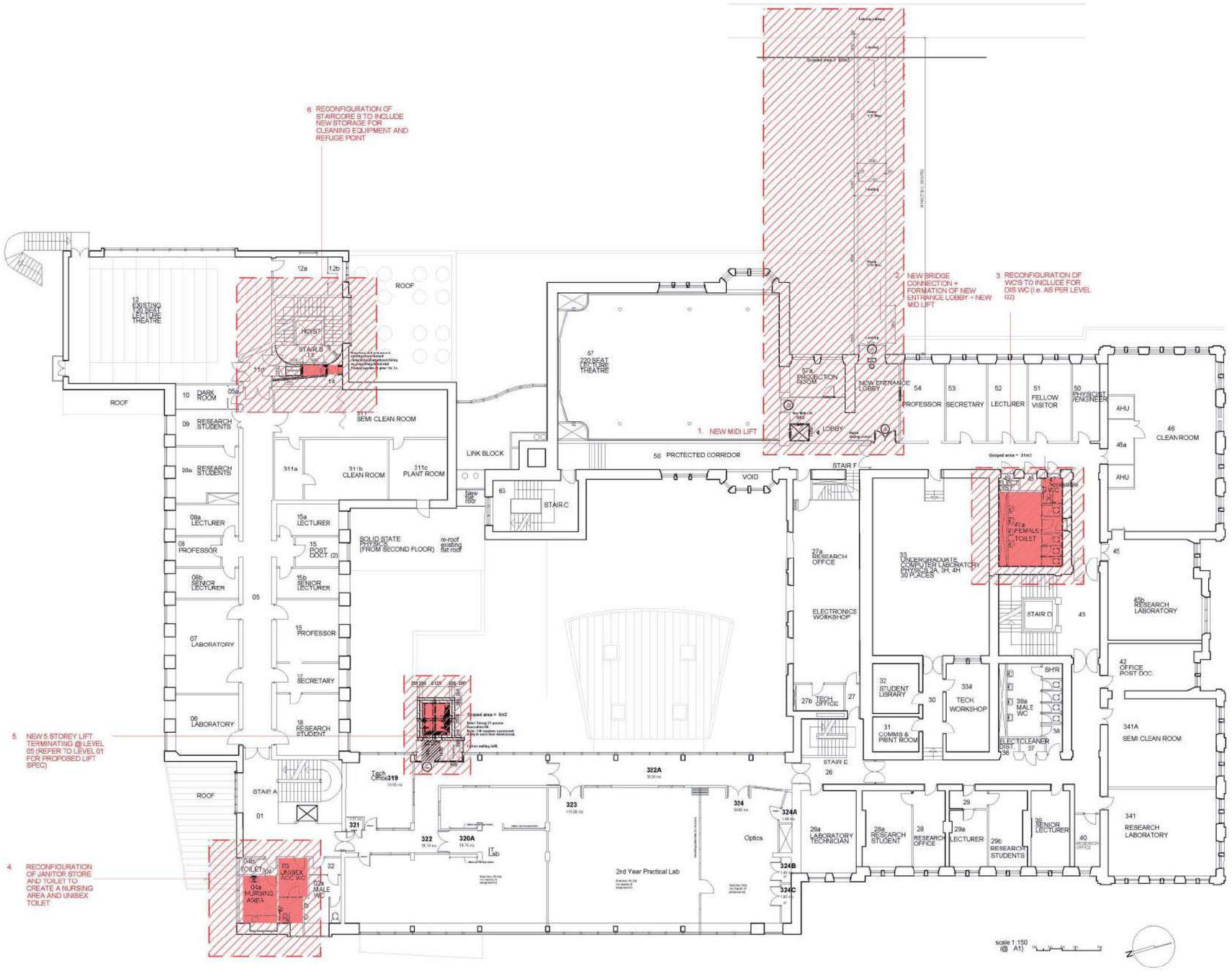
6. RECONFIGURATION OF STAIRCORE B TO INCLUDE NEW STORAGE FOR CLEANING EQUIPMENT AND REFUGE POINT

2. NEW BRIDGE CONNECTION + FORMATION OF NEW ENTRANCE LOBBY + NEW MID LIFT

3. RECONFIGURATION OF WC'S TO INCLUDE FOR DIS WC (i.e. AS PER LEVEL 02)

5. NEW 5 STOREY LIFT TERMINATING @ LEVEL 05 (REFER TO LEVEL 01 FOR PROPOSED LIFT SPEC)

4. RECONFIGURATION OF JANITOR STORE AND TOILET TO CREATE A NURSING AREA AND UNISEX TOILET



scale 1:150 @ A1)

1. Formation of new Midi lift between level 03/ 04

Dowrtakings

1. removal of existing ceilings

Proposed works

2. Formation of new 60 minute fire rated partition forming new protected lobby
3. Formation of double swing 60 minute fire doors with fire rated vision panels
4. external and internal Doorsets to include panic ironmongery , pads integrated with digilocks to provide secure access to area
5. Allowance for new ceilings/ floor finishes to new lobby
6. allowance for new lighting/ services (refer to MEP Spec)
7. formation of new 2 storey 'mid' lift between level 03 and 04

Steel frame with light weight infill forming Lift shaft sparning 2 floors

suggested lift specification

- Kone Motala
- 0.15m/s
- single car entrance
- 1350mm x 1560mm shaft size
- 1220x 1480mm Platform size
- DDA Compliant
- low smoke cabling
- 60 minute fire separation between floors required

2 Reconfiguration of existing wc's from Male to Female

Downtakings

1. formation of slapping within existing opening onto corridor to allow for reconfigured entrance

Proposed works (replicate level 02 arrangement)

2. reconfiguration of cubicles removing existing shower cubicle
3. Formation of Accessible WC
4. make good finishes

Extent of Phase 1 agreed works

KEYPLAN NTS

Revision			
12	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn: PS	Chk'd: RS	Date:	17.06.19
Revision			
11	Bridge link added back as instructed by Client at meeting on 25/06/19. Re-issued for Stage 3.		
Drawn: TD	Chk'd: TD	Date:	26.06.19
Revision			
10	issued for Planning		
Drawn: cjm	Chk'd: sm	Date:	04.04.19
Revision			
09	Lift footprint updated to clear existing trunck		
Drawn: TD	Chk'd: sm	Date:	16.04.19
Revision			
08	amended to remove Bridge Link proposals as part of stage 3 and lift footprint amended in accordance with existing trunck		
Drawn: SR	Chk'd: sm	Date:	16.04.19
Revision			
07	Dims./notes added		
Drawn: TD	Chk'd: sm	Date:	21.03.19

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Floor Plan as Proposed
Level 03

Job no/Phase
P17-051

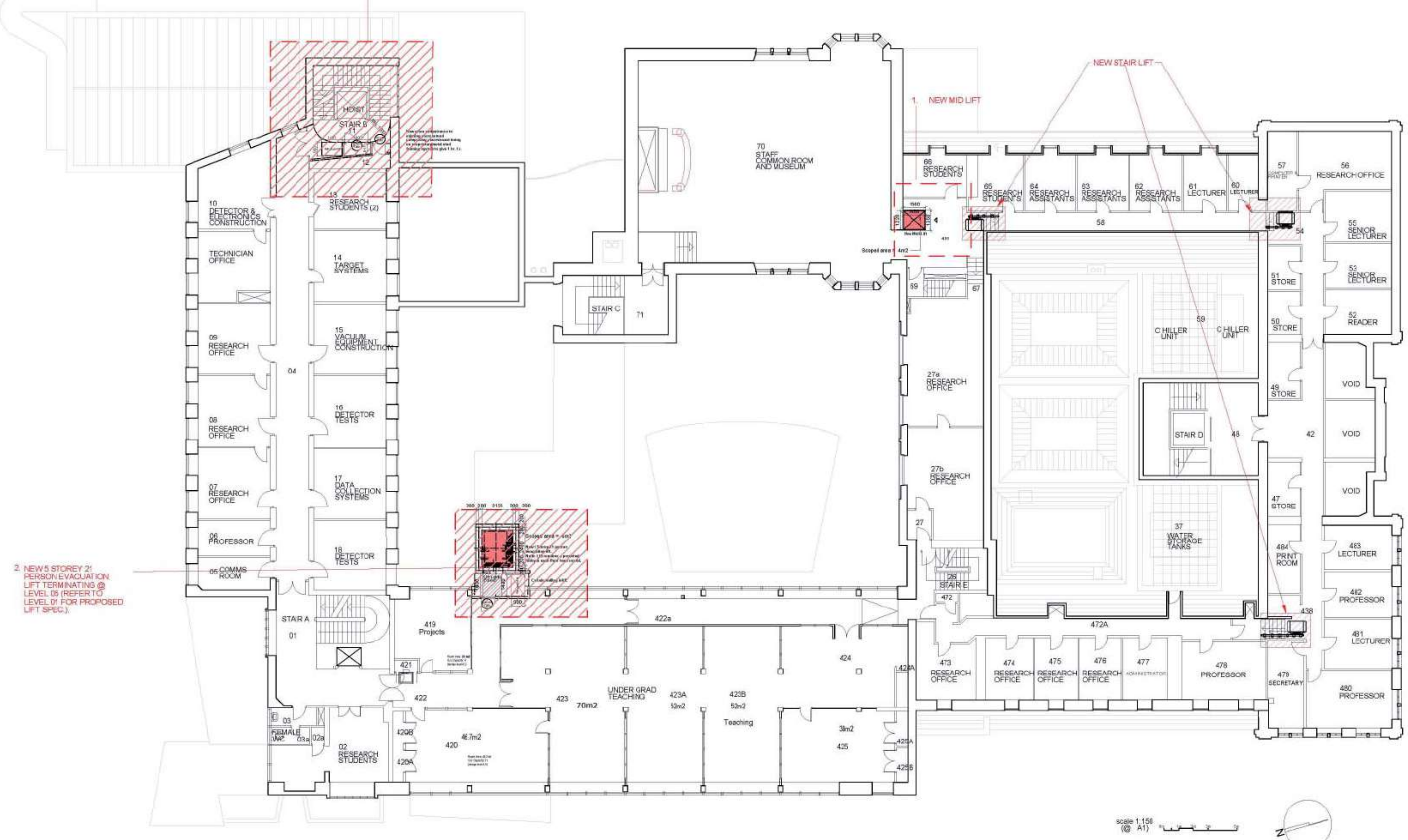
Drawing No.
KEP-KB-03-DR-A-7060-0110

Rev
12

Status
PLANNING

Created • KDD Checked • PS
Date • 29/7/17 Scale • 1:150 @ A1

Extent of Phase 1 agreed works


3. RECONFIGURATION OF STAIRCORE B TO INCLUDE NEW STORAGE FOR CLEANING EQUIPMENT AND REFUGE POINT
1. NEW MID LIFT
NEW STAIR LIFT
2. NEW 5 STOREY 21 PERSON EVACUATION LIFT TERMINATING @ LEVEL 05 (REFER TO LEVEL 01 FOR PROPOSED LIFT SPEC.)
HOIST
STAIR B
STAIR A
STAIR C
STAIR D
STAIR E
70 STAFF COMMON ROOM AND MUSEUM
10 DETECTOR & ELECTRONICS CONSTRUCTION
TECHNICIAN OFFICE
09 RESEARCH OFFICE
08 RESEARCH OFFICE
07 RESEARCH OFFICE
06 PROFESSOR
05 COMMS ROOM
13 RESEARCH STUDENTS (2)
14 TARGET SYSTEMS
15 VACUUM EQUIPMENT CONSTRUCTION
16 DETECTOR TESTS
17 DATA COLLECTION SYSTEMS
18 DETECTOR TESTS
419 Projects
423 UNDER GRAD TEACHING
423A
423B Teaching
420
425
02 RESEARCH STUDENTS
66 RESEARCH STUDENTS
65 RESEARCH STUDENTS
64 RESEARCH ASSISTANTS
63 RESEARCH ASSISTANTS
62 RESEARCH ASSISTANTS
61 LECTURER
60 LECTURER
56 RESEARCH OFFICE
55 SENIOR LECTURER
53 SENIOR LECTURER
52 READER
51 STORE
50 STORE
49 STORE
47 STORE
27a RESEARCH OFFICE
27b RESEARCH OFFICE
CHILLER UNIT
CHILLER UNIT
37 WATER STORAGE TANKS
VOID
VOID
VOID
483 LECTURER
482 PROFESSOR
481 LECTURER
480 PROFESSOR
484 PRINT ROOM
479 SECRETARY
478 PROFESSOR
477 ADMINISTRATOR
476 RESEARCH OFFICE
475 RESEARCH OFFICE
474 RESEARCH OFFICE
473 RESEARCH OFFICE
472A
422a
scale 1:150 (@ A1)

1. formation of new 2 storey 'midi' lift between level 03 and 04

Steel frame with light weight infill forming Lift shaft spanning 2 floors

suggested lift specification:

- Kone Metala or equivalent and consented to.
- 0.15m/s
- single car entrance
- 1350mm x 1560mm shaft size
- 1220x 1480mm Platform size
- Equality Act Compliant
- low smoke cabling
- 60 minute fire separation between floors required

Stair lifts

Suggested starlift specification:

- Stannah Stairiser or equivalent and consented to.
- 0.1m/s speed
- wall mounted
- 700 - 850 platform width
- 700 - 1250 platform length
- Motorised carriage runs on a rigid aluminium rail with positive rack and pinion drive and automatic brake.
- 240v single phase power supply.
- 0.5kW drive power.
- Attendant control on carriage. Constant pressure wireless control buttons at top and bottom landings.
- Equality Act Compliant

Revision	Description	Drawn	Chk'd	Date
10	ISSUED FOR DETAILED PLANNING AND LBC	PG	RS	17.05.18
09	Issued for Planning	GR	RS	24.04.18
08	Lift footprint updated to clear existing founds	TD	RS	19.04.18
07	Lift footprint amended to avoid clash with existing founds	TD	RS	18.04.18
06	Amended and re-issued for Stage 3	TD	RS	19.02.18
05	Updated for Stage 3 issue	TD	RS	14.02.18
04	updated for Stage 3 issue	TD	RS	09.02.18
03	updated and Reissued for information	RS	RS	30.11.17
02	updated and Reissued for information	RS	RS	29.08.17
01	updated and issued for information	RS	RS	09.08.17

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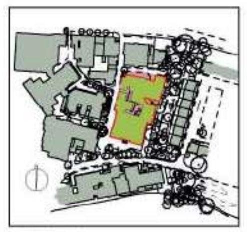
Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Floor Plan as Proposed
Level 04



KEYPLAN NTS

Project No.
P17-051

Drawing No.
KEP-KB-04-DR-A-7060-0110

Rev.
10

Status
PLANNING

Created • KDD Checked • RS
Date • 25/7/17 Scale • 1:150 @ A1

Extent of Phase 1 agreed works

1. Formation of new Lift

General :- Lift to be an 'Evacuation Lift' conforming to BS 9999 and designed and installed in accordance with BS EN 81-20 and BS EN 81-70.

Steel frame with lightweight infill forming Lift shaft spanning 5 floors plus pit

suggested lift specification:

- Kone MonoSpace 700 or equivalent and consented to.
- 21 person 1600kg
- 1.0 - 2.0m/s
- single car entrance
- 2100mm (w) x 2800mm (d) shaft size - t.b.c.
- 1400rm (w) x 2400mm (d) car size - t.b.c.
- 1100rm door width or similar.
- Equality Act Compliant
- low smoke cabling
-

refer to structural specification for structural design/ floor connections etc.

2. Formation of new 60 minute protected lift lobby at level 05

Downtakings

3. removal of partition separating post doc room 21 with Corridor
4. removal of services within room

Proposed Works

5. formaton of new 60 minute fire rates double door set
6. upgrace of partitons to form 60 minute fire rated lobby (including services crossing within space)
7. make good finishes
8. allowance for new ceilings/ floor within lobby
9. allowance for new lighting / escape signage etc

2. Review to be carried out on existing offices (14-17)

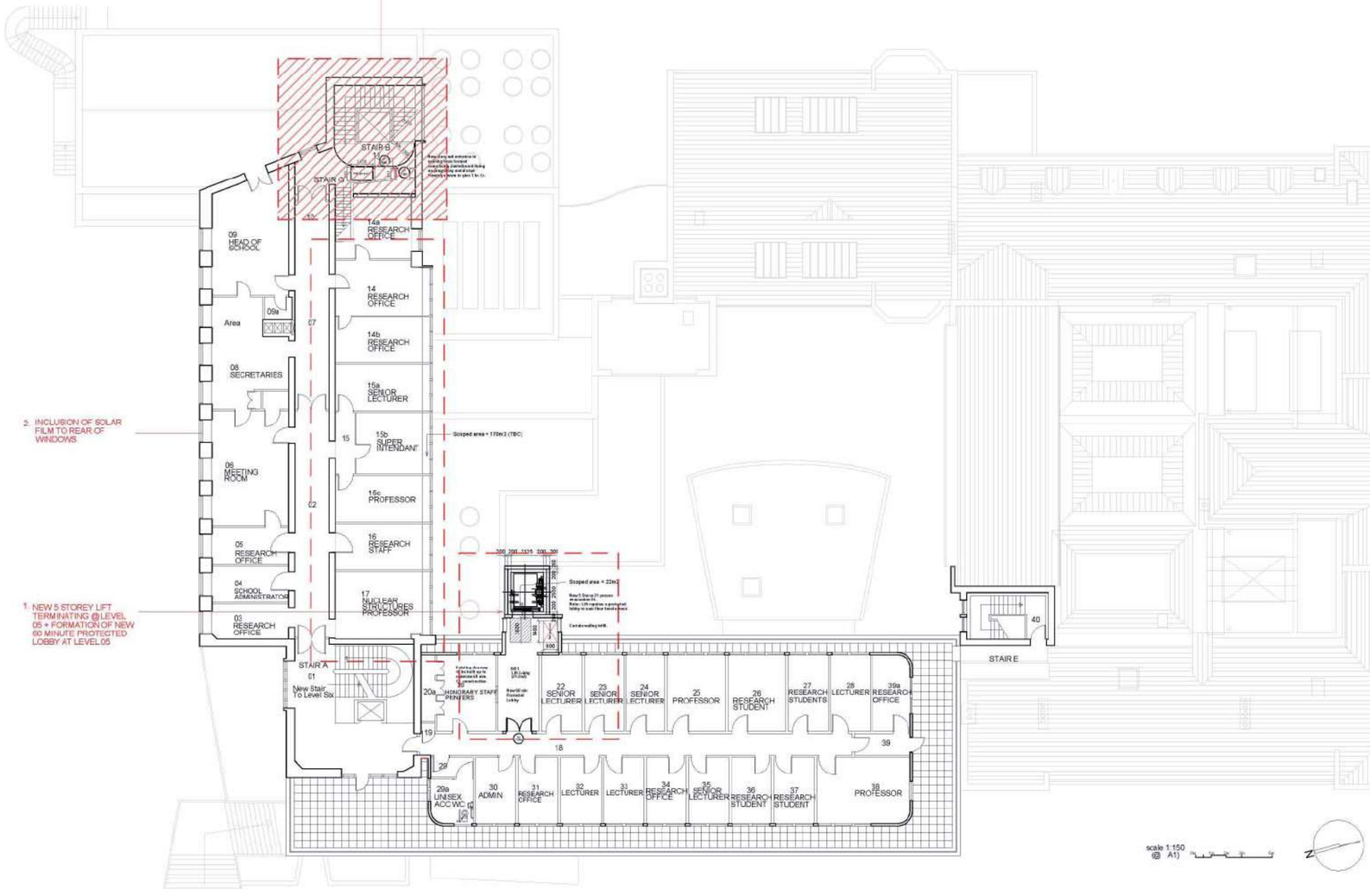
key points (MEP scope)

1. Determine degree of natural ventilation within each south facing office
2. Review of comfort conditions to determine if additional cooling is required
3. Application of protected film to rear of glazing

3. RECONFIGURATION OF STAIRCORE B TO INCLUDE NEW STORAGE FOR CLEANING EQUIPMENT AND REFUGE POINT

2. INCLUSION OF SOLAR FILM TO REAR OF WINDOWS

1. NEW 5 STOREY LIFT TERMINATING @ LEVEL 05 + FORMATION OF NEW 60 MINUTE PROTECTED LOBBY AT LEVEL 05



scale 1:150 @ A1)

KEYPLAN NTS

Revision	
10	ISSUED FOR DETAILED PLANNING AND LBC
Drawn : PG	Chkd: RS Date : 17.05.19
Revision	
09	Issued for Planning
Drawn : GM	Chkd : RS Date : 24.04.18
Revision	
08	Lift footprint updated to clear existing footpth.
Drawn : TO	Chkd: RS Date : 19.04.18
Revision	
07	Lift footprint amended to avoid clash with existing footpth.
Drawn : TO	Chkd: RS Date : 18.04.18
Revision	
06	Amended and re-issued for Stage 3.
Drawn : TO	Chkd: RS Date : 19.02.18
Revision	
05	Updated for Stage 3 issue
Drawn : TO	Chkd: RS Date : 14.02.18
Revision	
04	updated for Stage 3 issue
Drawn : TO	Chkd: RS Date : 09.03.18
Revision	
03	Updated and Reissued for Information
Drawn : RS	Chkd: RS Date : 30.11.17
Revision	
02	Updated and Reissued for Information
Drawn : RS	Chkd: RS Date : 09.08.17
Revision	
01	Updated and Issued for Information
Drawn : RS	Chkd: RS Date : 09.08.17

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Project
KELVIN BUILDING
PHASE 1 WORKS

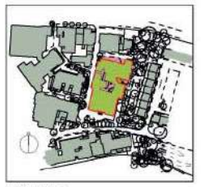
Drawing
Floor Plan as Proposed
Level 05

Project No.
P17-001

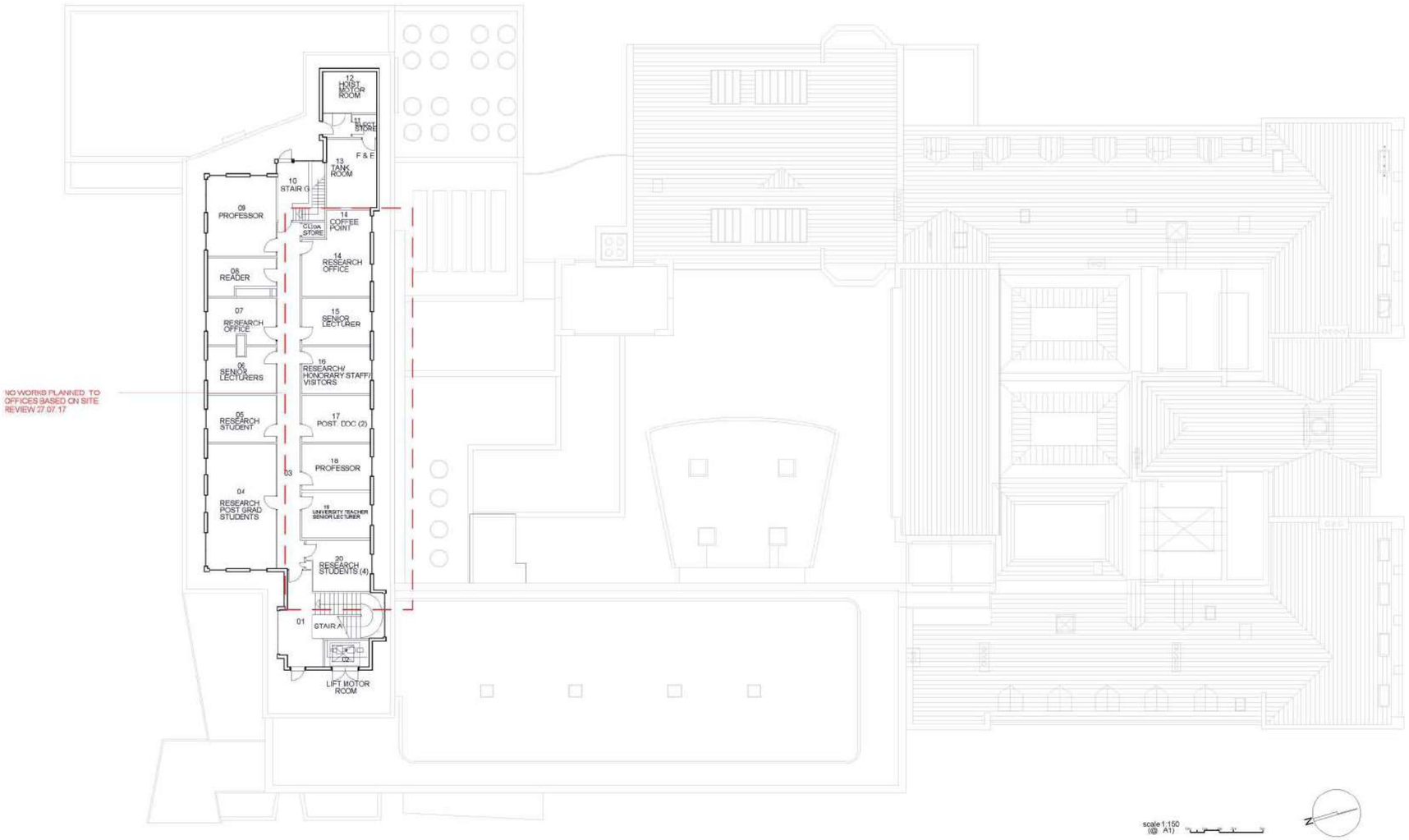
Drawing No. — Rev.
KEP-KB-05-DR-A-7060-0110 — 10

Status
PLANNING

Checked: KDD Checked: PG
Date: dd/mm/yy Scale: 1:150 @A1



KEYPLAN NTS



scale 1:150 (@ A1)

Revision
05 ISSUED FOR DETAILED PLANNING AND LBC
Drawn - PD Chk'd - RG Date - 17.05.18

Revision
04 Issued for Planning
Drawn - DD Chk'd - RG Date - 23.04.18

Revision
03 Notes removed - Stage 3 Issue
Drawn - TC Chk'd - RG Date - 09.03.18

Revision
02 updated and Reissued for information
Drawn - EG Chk'd - RG Date - 29.08.17

Revision
01 updated and Issued for information
Drawn - EG Chk'd - RG Date - 09.06.17

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Floor Plan as Proposed
Level 05

Project No
P17-051

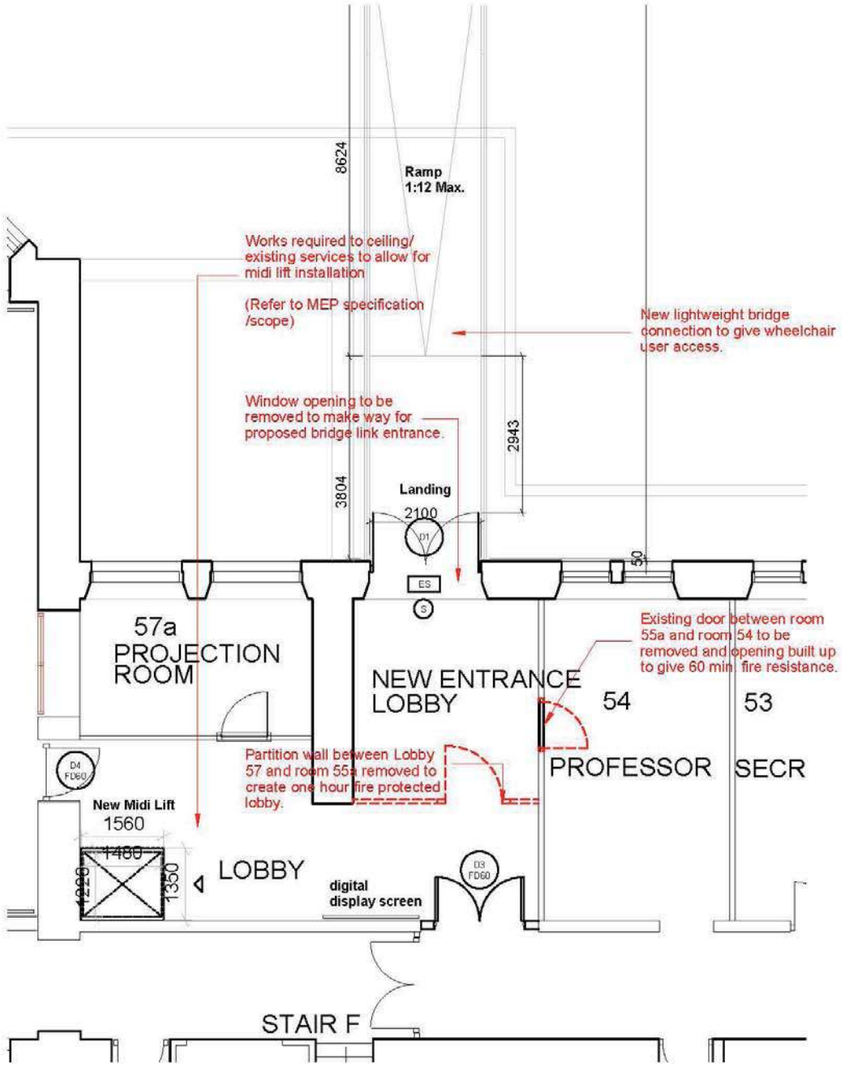
Drawing No
KEP-KB-05-DR-A-7060-0110
Rev
05

Status
PLANNING

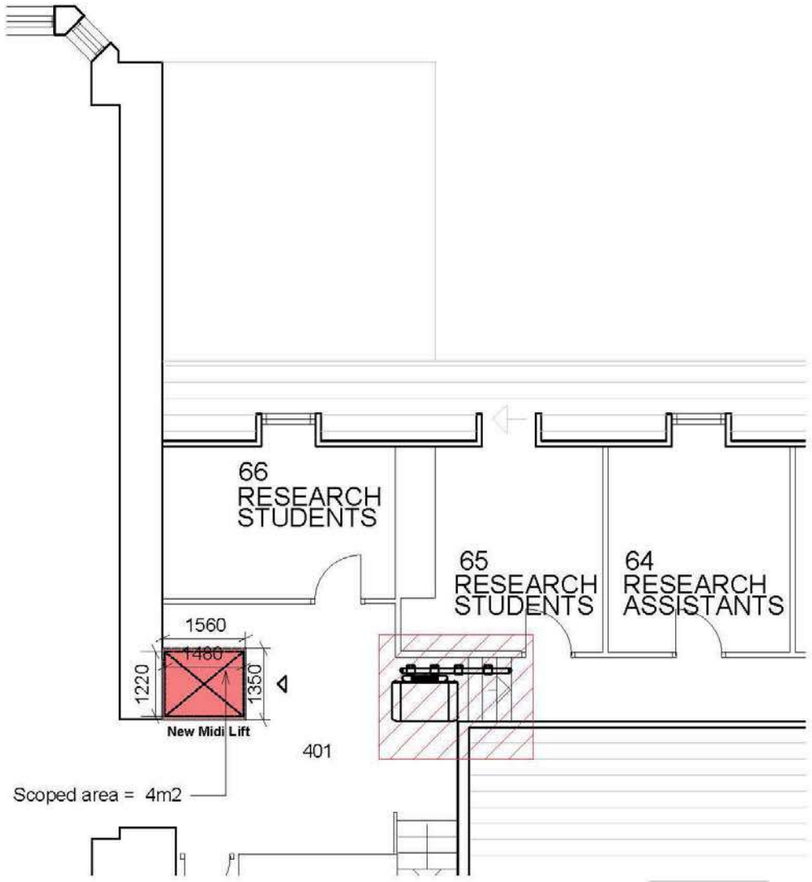
Created • HDD Checked • RG
Date • 25/5/17 Scale • 1:150 @ A1

Figured dimensions only to be taken from this drawing. All dimensions are to be checked on site before any work is put in h
IF IN DOUBT ASK

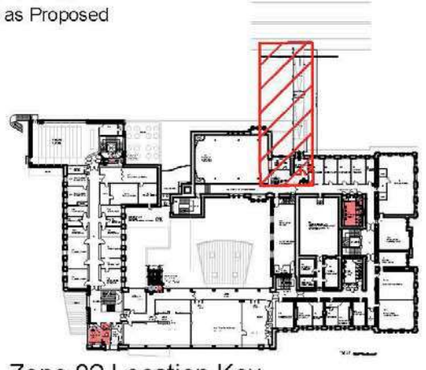
Note: All Levels require confirmation following Site Survey.



Level 03_Link Bridge Access and New Midi-Lift as Proposed



Level 04_Link Bridge Access and New Midi-Lift as Proposed



Zone 02 Location Key (NTS)

Floor Plan as Proposed
Scale 1:100

0 1 2 3 4 5m
Scale1:100

Revision			
03	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn : PG	Chk'd : RS	Date : 17.08.18	
Revision			
02	Bridge link added back as per Client instruction at meeting on 26/06/18. Re-issued for Stage 3.		
Drawn : TD	Chk'd : TD	Date : 29.06.18	
Revision			
01	Updated for Stage 3 issue		
Drawn : TD	Chk'd : RS	Date : 15.02.18	

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PHASE 1 WORKS

Drawing
Zone 02 - Level 03 and 04
Plan as Proposed

Project No.
P17-051

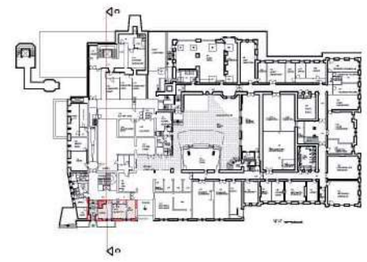
Drawing No. KEP-KB-XX-DR-A-8050-0111 Rev. 03

Status
PLANNING

Created • TD Checked • RS
Date • 09/08/18 Scale • 1: 100 @ A3

Section C-C as Existing

scale 1:100
(@ A1)



Level 01 Location Key (NTS)

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn GB Chkd RG Date 12.09.18
Revision
01 Updated for Stage 4 Issue
Drawn LH Chkd RG Date 14.02.18

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KELVIN BUILDING
PHASE 1 WORKS

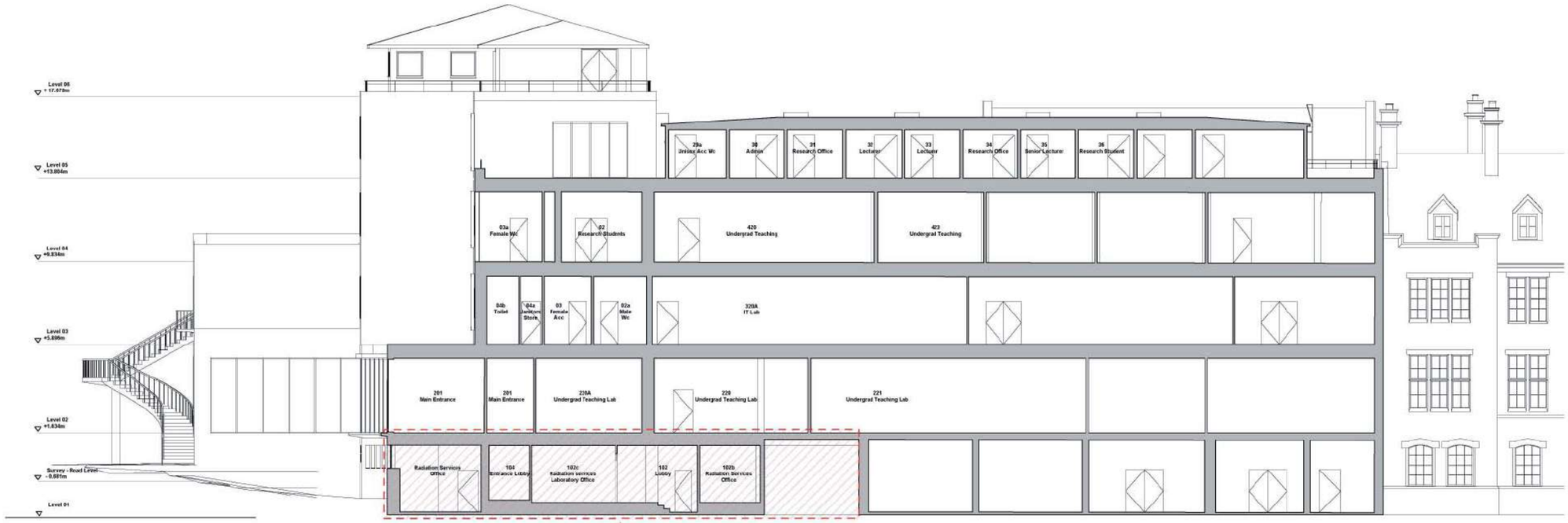
Drawing
Section C-C as Existing

Project No.
P17-051

Drawing No.
KEP-KB-XX-DR-A-7080-0011
Rev.
02

Status
PLANNING

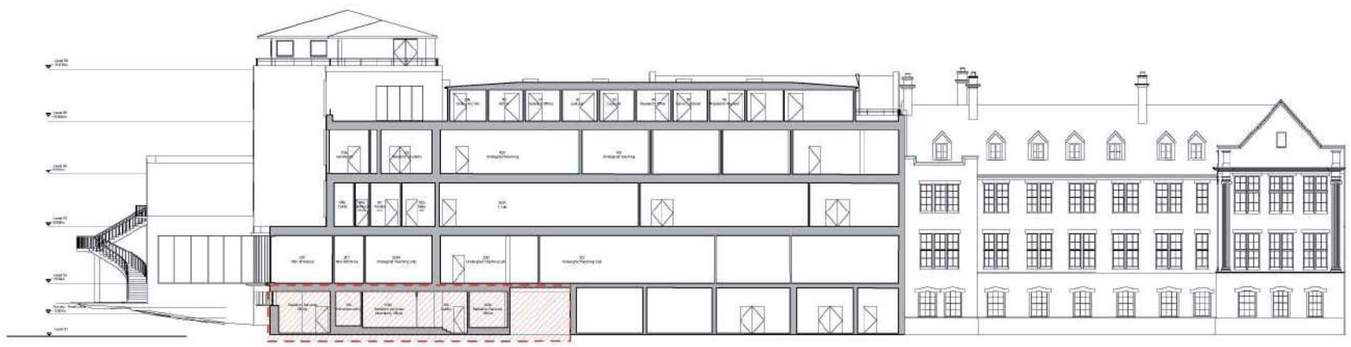
Created • LW Checked • RG
Date • 26/06/17 Scale • 1:100 @ A1



Section E-E as Existing
1:100 @ A1

0 1 2 3 4 5m
Scale 1:100

Radiation services offices/Labs
Proposed location for new Entrance
Proposal
(Refer to KEP-KB-XX-DR-A-7080-0113)



Section E-E as Entire
1:200 @ A1

Level 01 Location Key (NTS)

Revision			
02	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn GR	Chk'd RS	Date 17.05.19	
Revision			
01	Updated for Stage 3 issue		
Drawn LW	Chk'd RS	Date 19.02.19	

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Project
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PHASE 1 WORKS

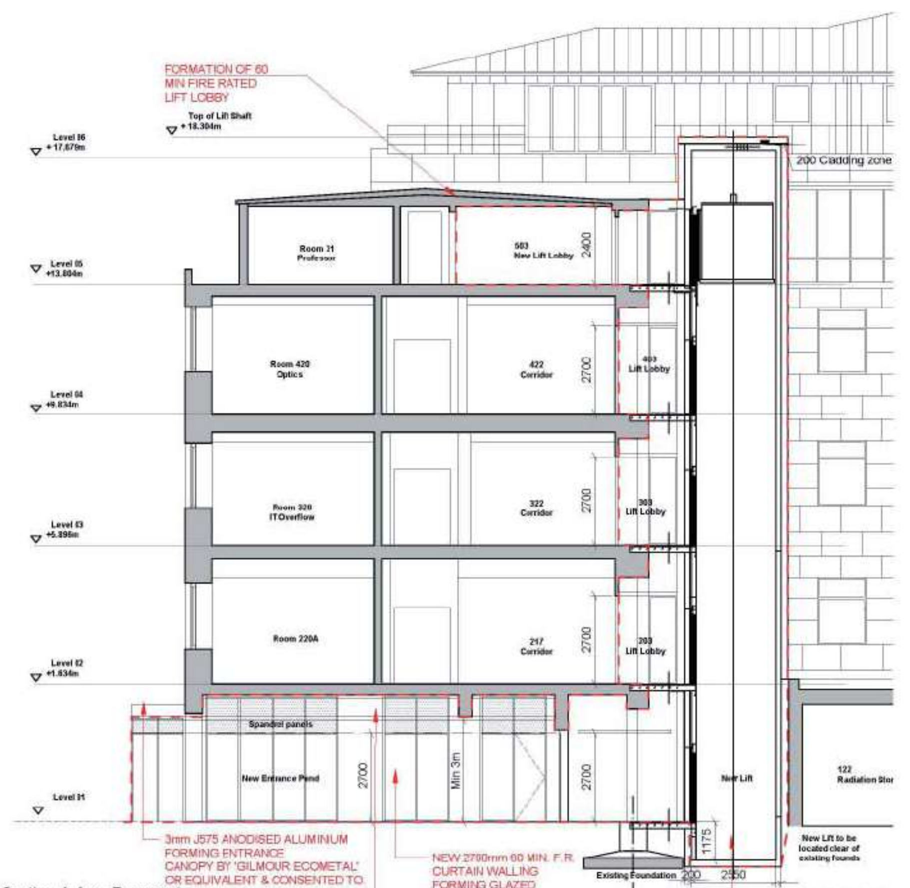
Drawing
Section E-E as Existing

Project No
P17-051

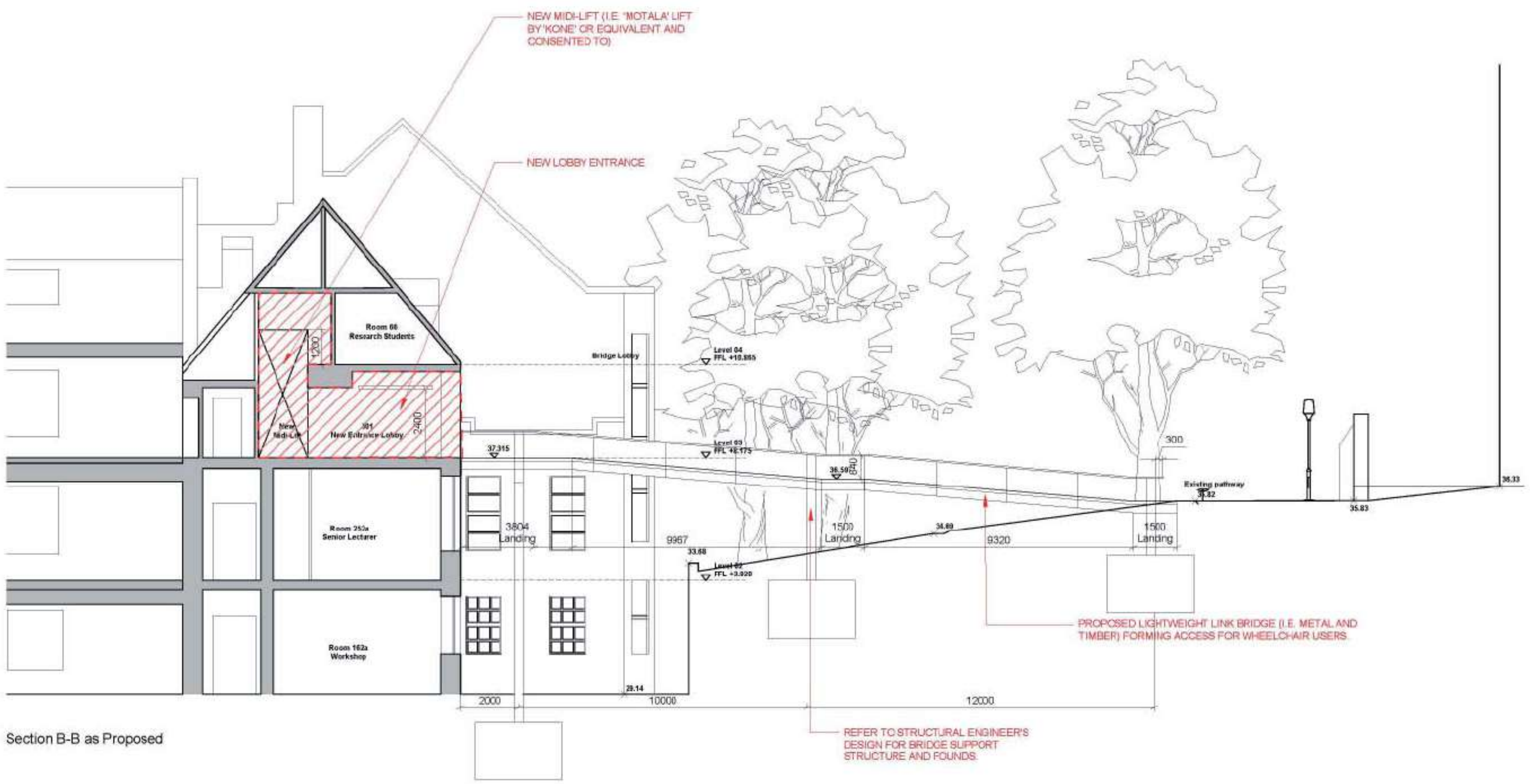
Drawing No — Rev
KEP-KB-XX-DR-A-7080-0013 — 02

Status
PLANNING

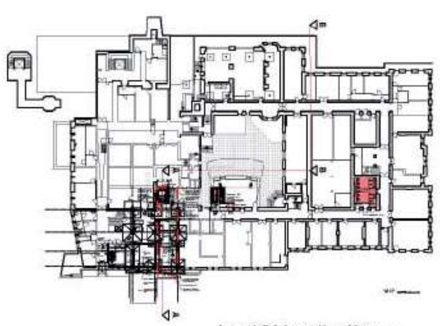
Created • LW — Checked • RS
Date • 08/02/19 — Scale • 1:100



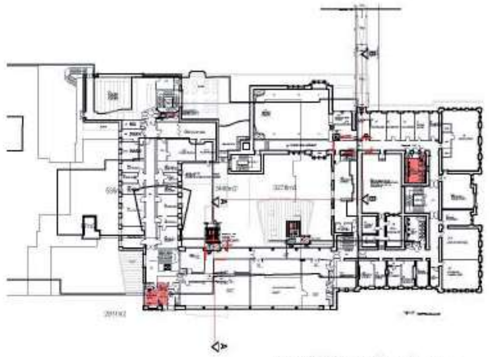
Section A-A as Proposed



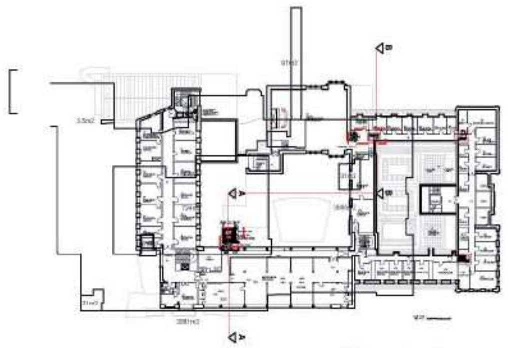
Section B-B as Proposed



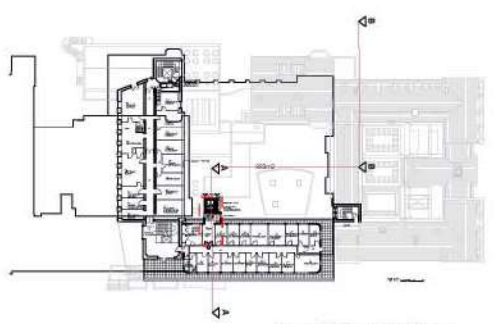
Level 01 Location Key (NTS)



Level 03 Location Key (NTS)



Level 04 Location Key (NTS)



Level 05 Location Key (NTS)

0 1 2 3 4 5m

Revision			
09	ISSUED FOR DETAILED PLANNING AND LBC		
	Drawn : PZ	Chk'd : TD	Date : 17.08.18
08	Bridge link added back as per Client instruction at meeting on 28/08/18. Drawing re-issued for Stage 3.		
	Drawn : TD	Chk'd : TD	Date : 29.08.18
07	Lift shaft dimensions adjusted to clear existing founds.		
	Drawn : TD	Chk'd : RS	Date : 18.04.18
06	Amended to remove Bridge Link proposals as part of stage 3 and lift position adjusted to avoid clash with existing founds.		
	Drawn : RS	Chk'd : RS	Date : 18.04.18
05	Dims. added		
	Drawn : TD	Chk'd : RS	Date : 21.03.18
04	Existing founds shown and notes added		
	Drawn : TD	Chk'd : RS	Date : 12.03.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Sections A-A/B-B as Proposed
New Entrance and Lift

Project No.
P17-051

Drawing No.
KEP-KB-XX-DR-A-7080-0110

Rev.
09

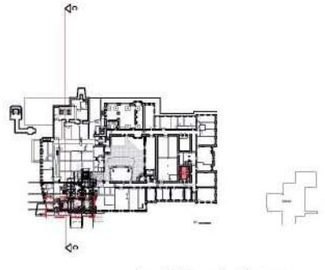
Status
PLANNING

Created • LW Checked • RS
Date • 25/08/17 Scale • 1:100 @A1

Section C-C as Proposed

Part of Main Entrance Proposals
(i.e.readjustment of Radiation services accommodation to form Janitors room/ Cleaners store)

0 1 2 3 4 5m
Scale1:100



Level 01 Location Key 1:1000

Revision			
04	ISSUED FOR DETAILED PLANNING INCL LBC		
Drawn - WG	Chkd - RS	Date - 17.05.19	
Revision			
03	Issued for Planning		
Drawn - GD	Chkd - RS	Date - 24.04.19	
Revision			
02	Amended and reissued for Stage 3		
Drawn - TO	Chkd - RS	Date - 19.02.19	
Revision			
01	updated for Stage 3 issue		
Drawn - LW	Chkd - RS	Date - 14.02.19	

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Project
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PHASE 1 WORKS

Drawing
Section C-C as Proposed

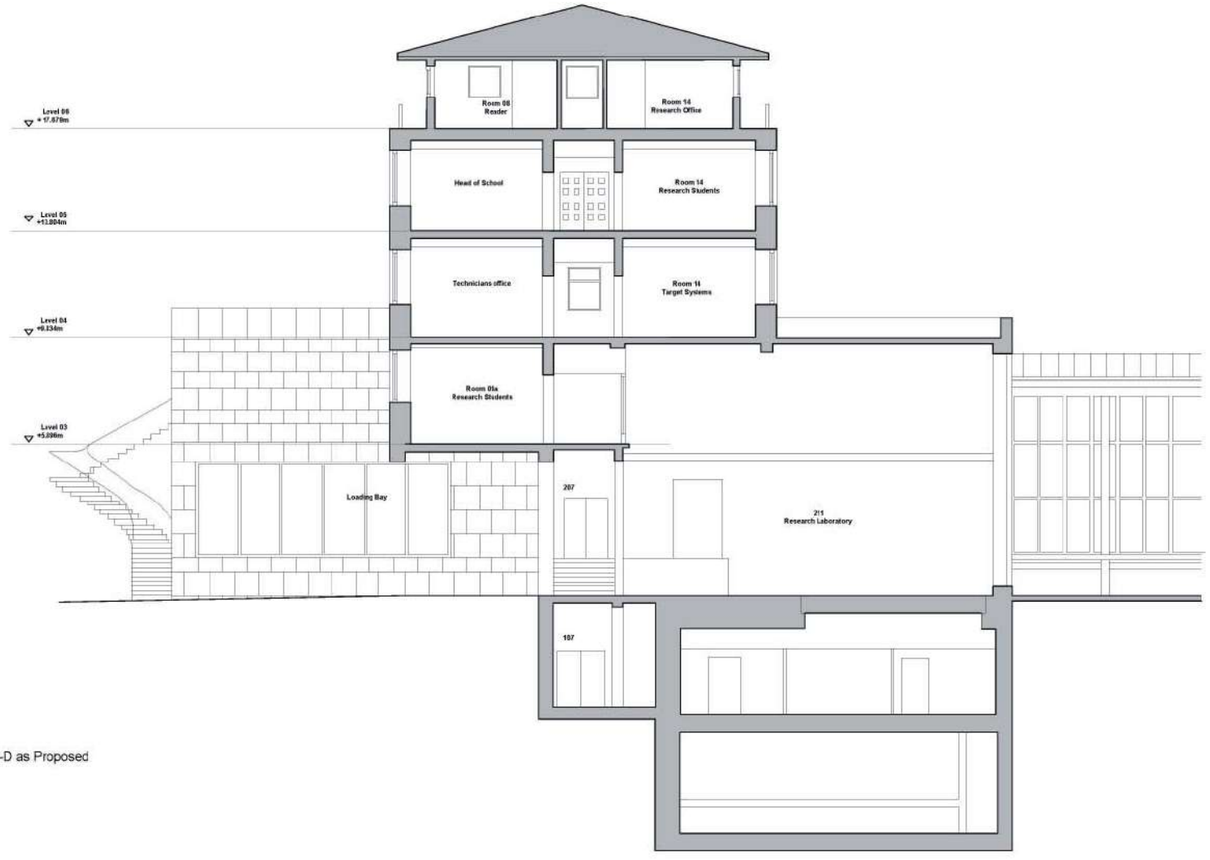
Project no.
P17-051

Drawing No.
KEP-KB-XX-DR-A-7080-0111

Rev.
04

Status
PLANNING

Created	LW	Checked	RS
Date	25/01/17	Scale	1 : 100 @ A1



Section D-D as Proposed
1:100 @ A1

0 1 2 3 4 5m
Scale1:100

Level 02 Location Key (1:1250)

Revision	
04	ISSUED FOR DETAILED PLANNING AND LBC
Drawn - BG	Chk'd - BG — Date - 17.05.19
Revision	
03	Loading bay proposal omitted as per Client instruction at meeting on 24/04/19. Re-issued for Stage 3
Drawn - BG	Chk'd - BG — Date - 12.03.19
Revision	
02	Amended and re-issued for Stage 3
Drawn - BG	Chk'd - BG — Date - 19.02.19
Revision	
01	Updated for Stage 3 Issue
Drawn - BG	Chk'd - BG — Date - 14.02.19

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Project
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PHASE 1 WORKS

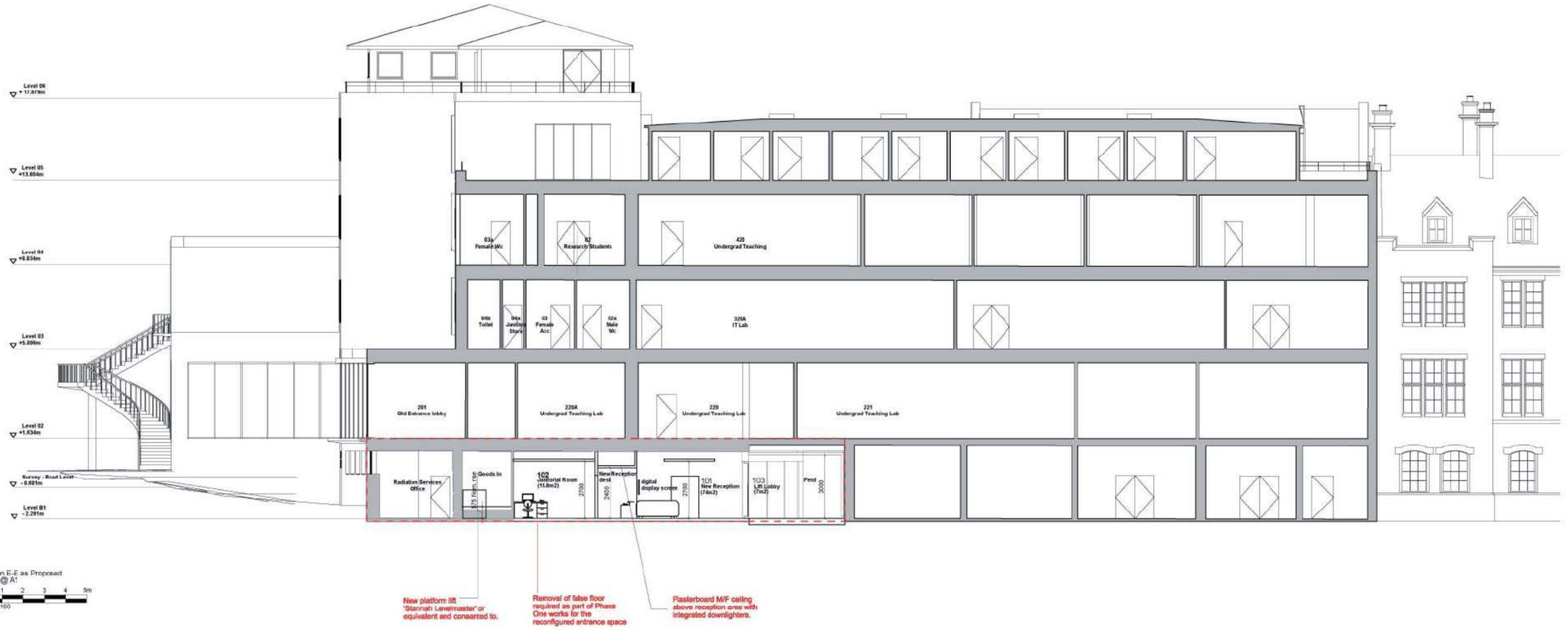
Drawing
Section D-D as Proposed

Keppie No.
P17-051

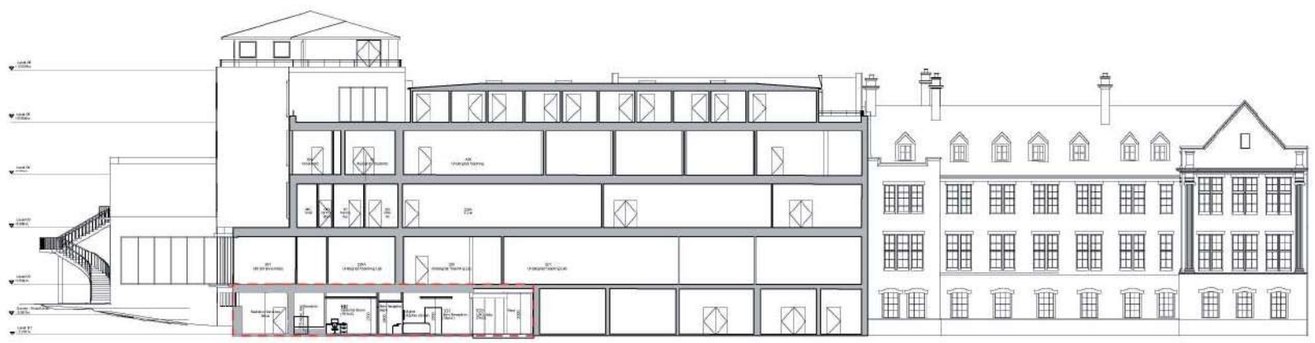
Drawing No. — Rev.
KEP-KB-XX-DR-A-7080-0112 — 04

Status
PLANNING

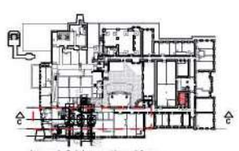
Created ▪ LW — Checked ▪ BG
Date ▪ 25/9/17 — Scale ▪ 1 : 100 @ A1



Section E-E as Proposed
1:100 @ A1



Section E-E as Entire
1:200 @ A1



Level 01 Location Key (NTS)

Revision			
04	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn - GD	Chk'd - EG	Date - 17.06.19	
Revision			
03	Issued for Planning		
Drawn - GD	Chk'd - EG	Date - 04.04.19	
Revision			
02	Amended and re issued for Stage 3		
Drawn - TG	Chk'd - EG	Date - 18.02.19	
Revision			
01	updated for Stage 3 issue		
Drawn - LW	Chk'd - EG	Date - 14.02.19	

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Section E-E as Proposed
New Entrance and Janitorial Store

Project No.
P17-051

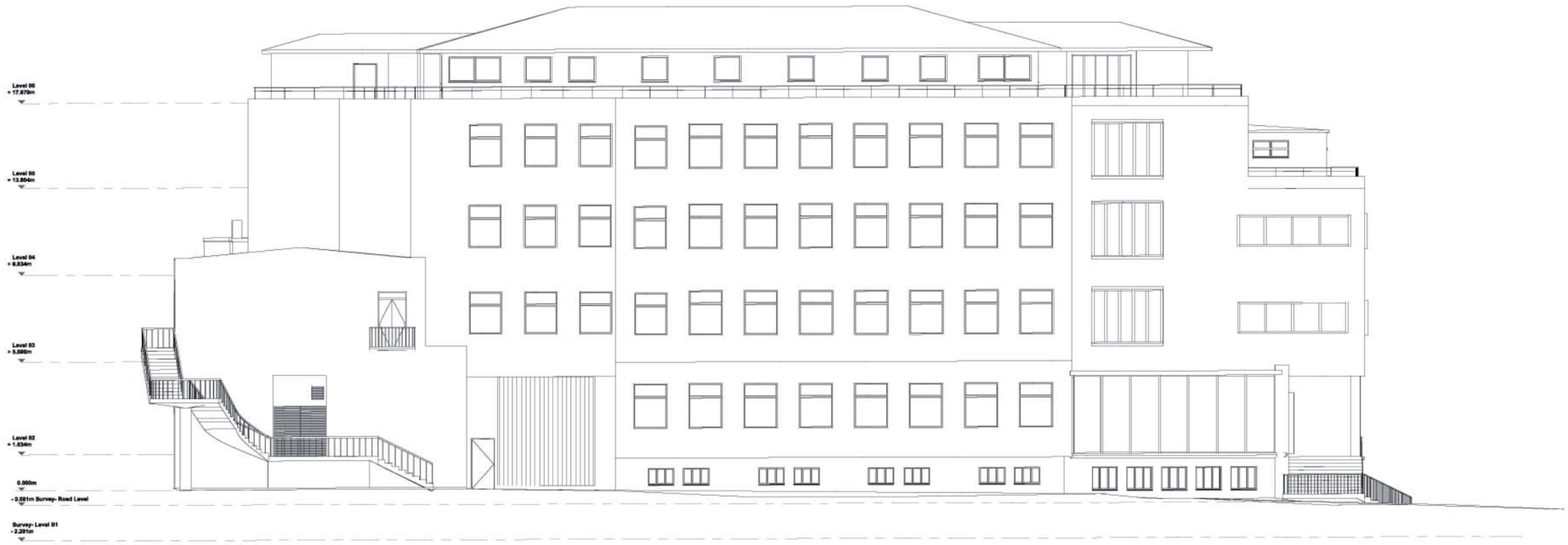
Drawing No. — Rev.
KEP-KB-XX-DR-A-7080-0113 — 04

Status
PLANNING

Created • LW · Checked • RS
Date • 06/02/19 · Scale • 1: 100 @ A1

Figured dimensions only to be taken from this drawing. All dimensions are to be checked on site before any work is put in hand. IF IN DOUBT ASK.
Note: All Levels require confirmation following Site Survey.

KEYPLAN NTS



North Elevation as Existing
1:100 @ A1

Revision

03 ISSUED FOR DETAILED PLANNING AND LBC
Drawn - BG | Chkd - EG | Date - 17.05.18

Revision

02 Loading bay proposal omitted as per Client instruction at meeting on 25/05/18. Re-issued for Stage 3
Drawn - BG | Chkd - EG | Date - 22.05.18

Revision

01 updated for Stage 3 issue
Drawn - LW | Chkd - EG | Date - 10.05.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
North Elevation as Existing

Project No.
P17-051

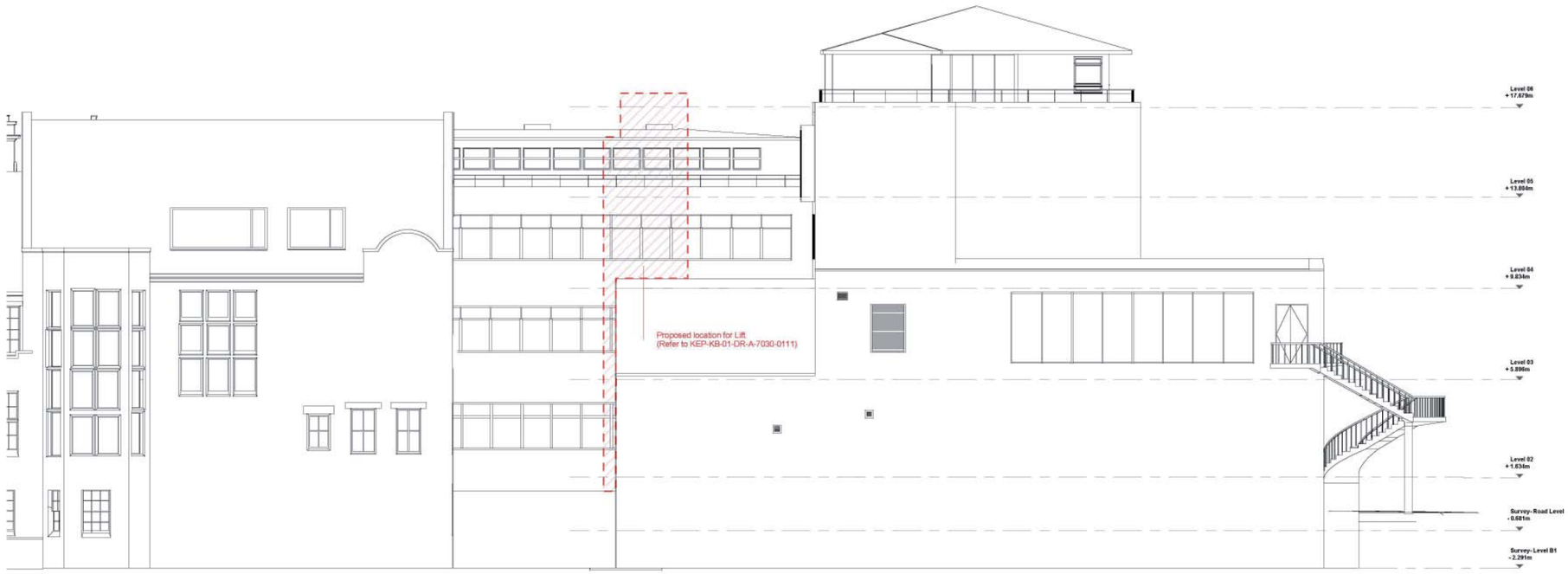
Drawing No. | Rev.
KEP-KB-XX-DR-A-7030-0010 | 03

Status
PLANNING

Created • LW | Checked • KS
Date • 02/02/18 | Scale • 1: 100 @ A1

Note: All Levels require confirmation following Site Survey.

KEYPLAN NTS



East Elevation as Existing
1:100 @ A1
0 1 2 3 4 5m
Scale1:100

East Elevation as Entire
1:200 @ A1

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn: PG2 Chk'd: RS Date: 11.05.18
Revision
01 Updated for Stage 3 Issue
Drawn: LW Chk'd: RS Date: 14.02.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

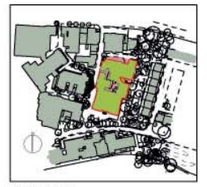
Drawing
East Elevation as Existing

Project No.
P17-051

Drawing No. Rev.
KEP-KB-XX-DR-A-7030-0011 02

Status
PLANNING

Drawn LW Checked RS
Date 03/05/18 Scale 1:100 @ A1



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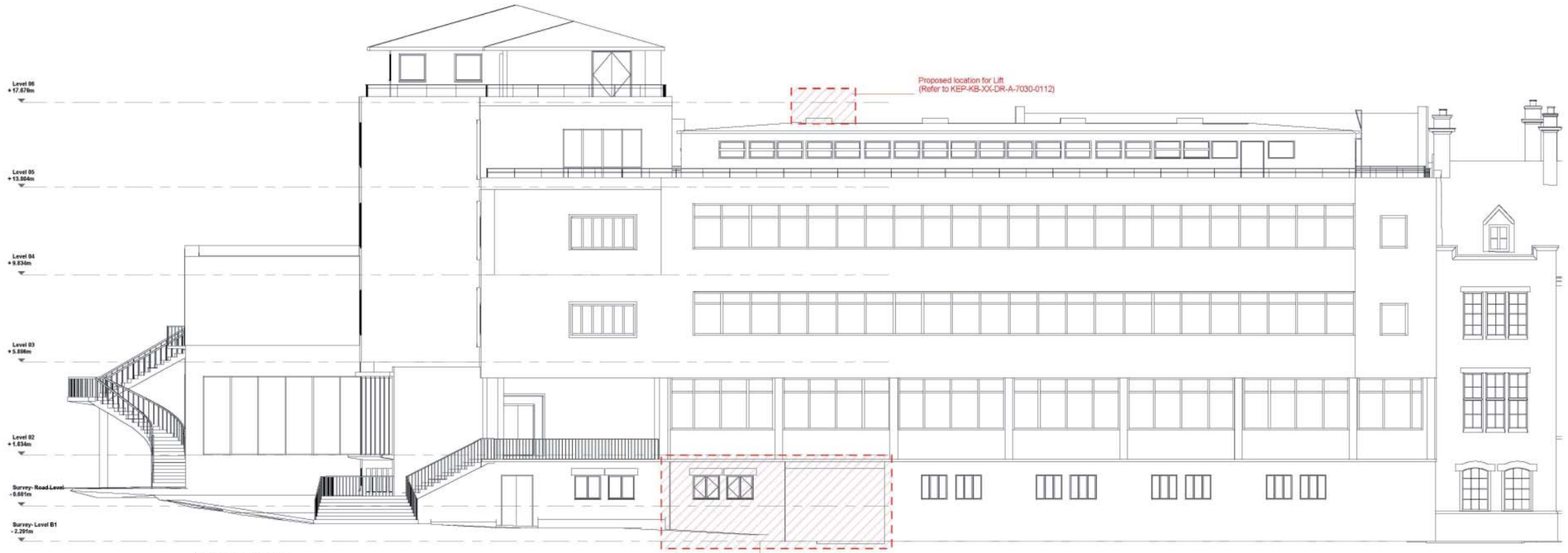

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1:100 @ A1
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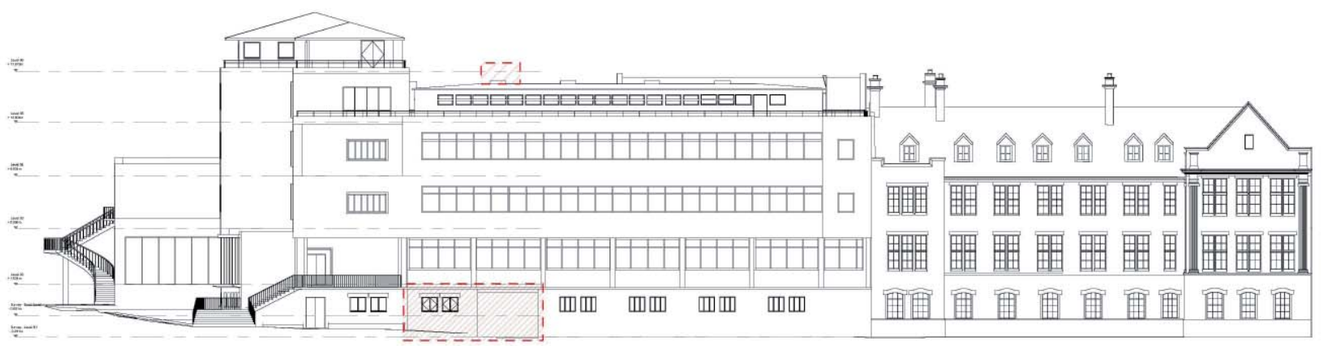
Scale1:100



West Elevation as Entire
1:200 @ A1

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn - STC Chkd - RS Date - 17.09.18
Revision
01 updated for Stage 3 issue
Drawn - LW Chkd - RS Date - 18.03.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

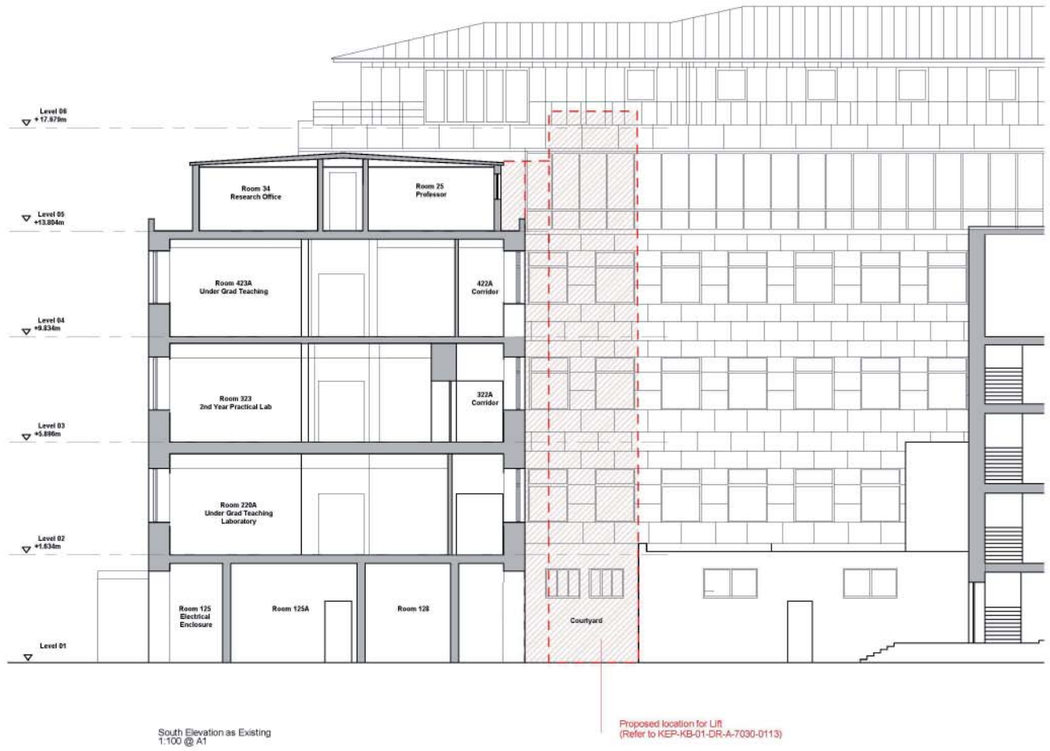
Drawing
West Elevation as Existing

Project No.
P17-051

Drawing No. Rev.
KEP-KB-XX-DR-A-7030-0012 02

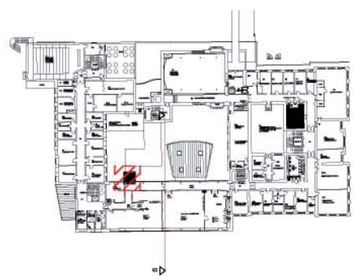
Status
PLANNING

Created • LW Checked • RS
Date • 03/03/18 Scale • 1 : 100 @ A1



South Elevation as Existing
1:100 @ A1

0 1 2 3 4 5m
Scale1:100



Level 01 Location Key (NTS)

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn: PG Chk'd: PD Date: 17.05.19
Revision
01 updated for Stage 3 issue
Drawn: LW Chk'd: KS Date: 14.02.19

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Courtyard Elevation as Existing

Project No
P17-051

Drawing No. KEP-KB-XX-DR-A-7030-0013 Rev. 02

Status
PLANNING

Created • GR Checked • KS
Date • 19/04/19 Scale • 1: 100 @A1

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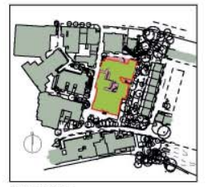

KEYPLAN NTS

North Elevation as Proposed
1:100 @ A1

0 1 2 3 4 5m
Scale1:100

Revision
04 ISSUED FOR DETAILED PLANNING AND LBC
Drawn : KG Check : RS Date : 07.08.18
Revision
03 Issued for Planning
Drawn : GM Check : SO Date : 13.07.18
Revision
02 Loading bay proposal omitted as per Client instruction at meeting on 29/06/18. Re-issued for Stage 3
Drawn : TO Check : TO Date : 29.06.18
Revision
01 updated for Stage 3 issue
Drawn : LW Check : RS Date : 14.02.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
North Elevation as Proposed

Project No.
P17-051

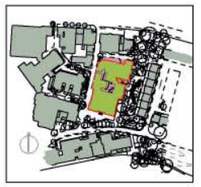
Drawing No. — Rev.
KEP-KB-XX-DR-A-7030-0110 — 04

Status
PLANNING

Created ● LW Checked ● RS
Date ● 02/02/18 Scale ● 1: 100 @ A1

Figured dimensions only to be taken from this drawing. All dimensions are to be checked on site before any work is put in hand. IF IN DOUBT ASK.

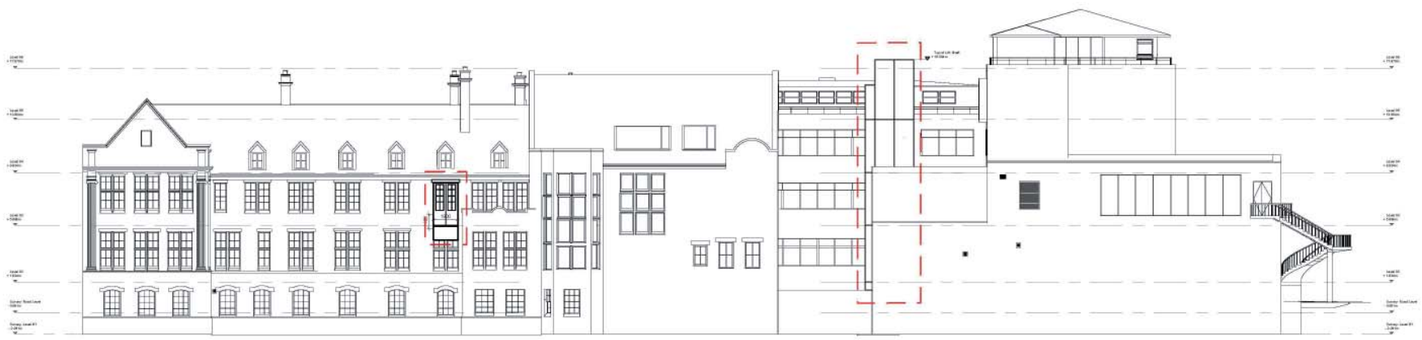
Note: All Levels require confirmation following Site Survey.



KEYPLAN NTS

East Elevation as Proposed
1:100 @ A1

Scale1:100



East Elevation as Entire
1:200 @ A1

Revision			
05	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn: JJB	CRKD : RG	Date: 11.05.15	
Revision			
04	Issue for Planning		
Drawn: JJB	CRKD : RG	Date: 13.01.15	
Revision			
03	New doors amended to match existing windows		
Drawn: LG	CRKD : RG	Date: 21.03.15	
Revision			
02	Amended and re-issued for Stage 3		
Drawn: LW	CRKD : RG	Date: 19.02.15	
Revision			
01	updated for Stage 3 issue		
Drawn: LW	CRKD : RG	Date: 12.02.15	

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Project
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PHASE 1 WORKS

Drawing
East Elevation as Proposed

Project No.
P17-051

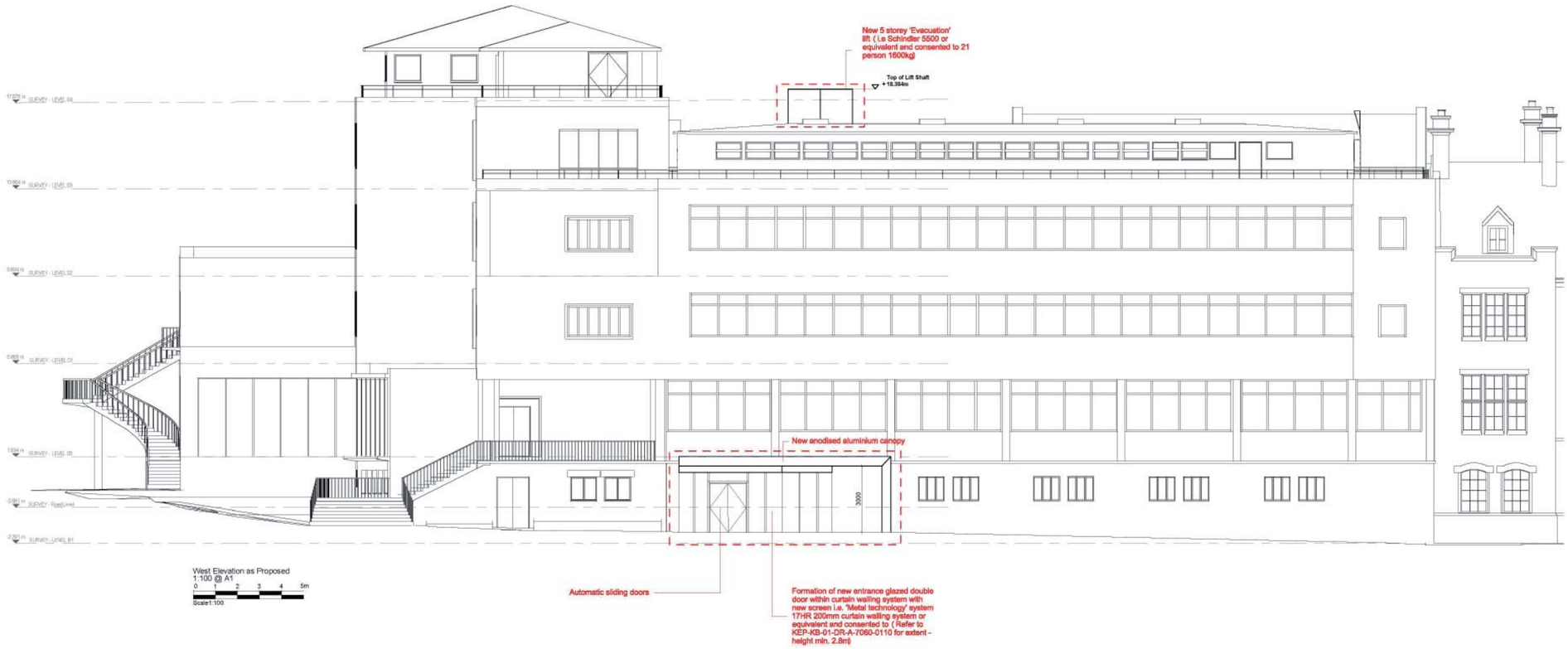
Drawing No. | Rev.
KEP-KB-XX-DR-A-7030-0111 | 05

Status
PLANNING

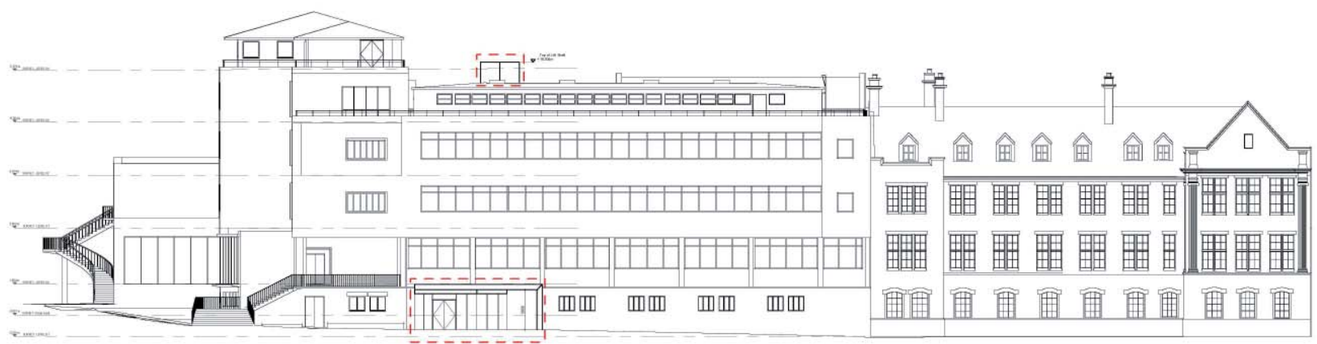
Created • LW | Checked • RG
Date • 02/02/15 | Scale • 1: 100 @A1

Note: All Levels require confirmation following Site Survey.

KEYPLAN NTS



West Elevation as Proposed
1:100 @ A1
0 1 2 3 4 5m
Scale1:100



West Elevation as Entire
1:200 @ A1

03	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn: FG	Chk'd: RS	Date: 17.02.18	
Revision:			
02	Amended and Revised for Stage 3.		
Drawn: TG	Chk'd: RS	Date: 19.02.18	
Revision:			
01	Updated for Stage 3 Issue		
Drawn: LW	Chk'd: RS	Date: 14.02.18	

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Project
KELVIN BUILDING
PHASE 1 WORKS

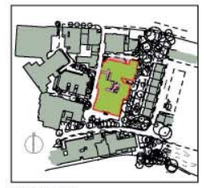
Drawing
West Elevation as Proposed
New Entrance and Lobby and Lift Shaft

Project No.
P17-051

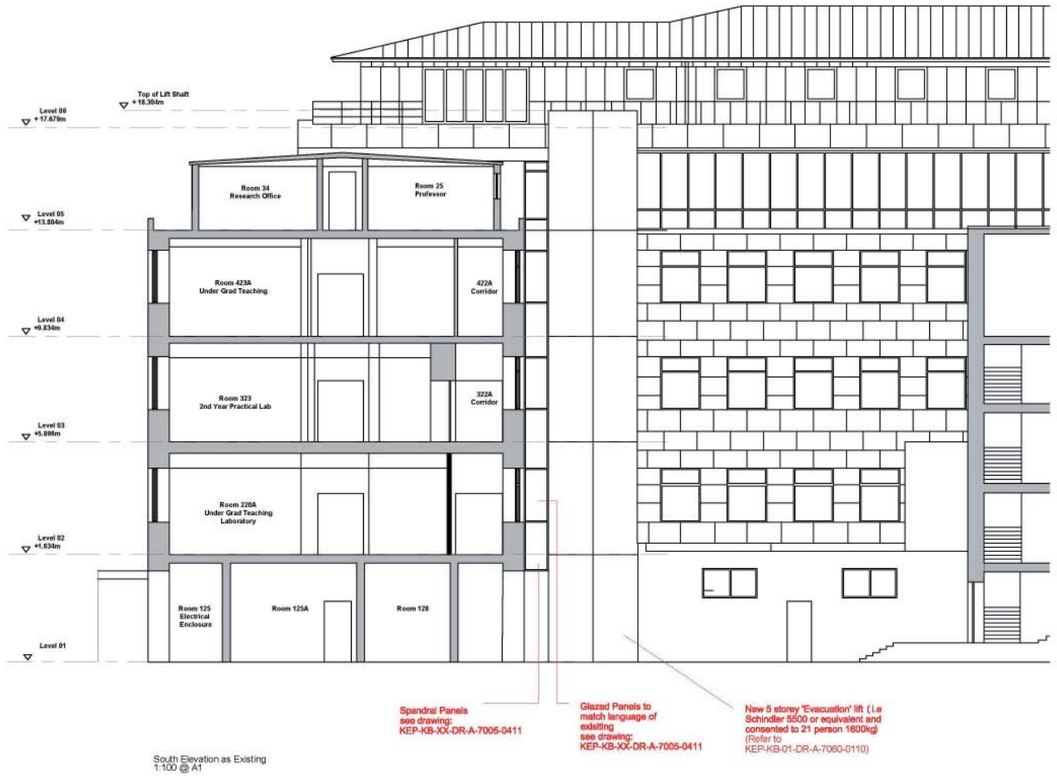
Drawing No. | Rev.
KEP-KB-XX-DR-A-7030-0112 | 03

Status
PLANNING

Created ■ LW | Checked ■ RS
Date ■ 22/03/18 | Scale ■ 1: 100 @ A1

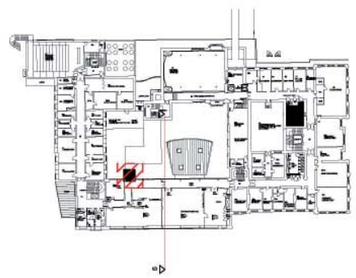


KEYPLAN NTS



South Elevation as Existing
1:100 @ A1

0 1 2 3 4 5m



Level 01 Location Key 1:1250

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn: JVG Check: BS Date: 17.09.19
Revision
01 updated for Stage 3 Issue
Drawn: JVG Check: BS Date: 16.03.19

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Courtyard Elevation as Proposed
Proposed Internal Courtyard Lift

Project No
P17-051

Drawing No
KEP-KB-XX-DR-A-7030-0113

Rev
02

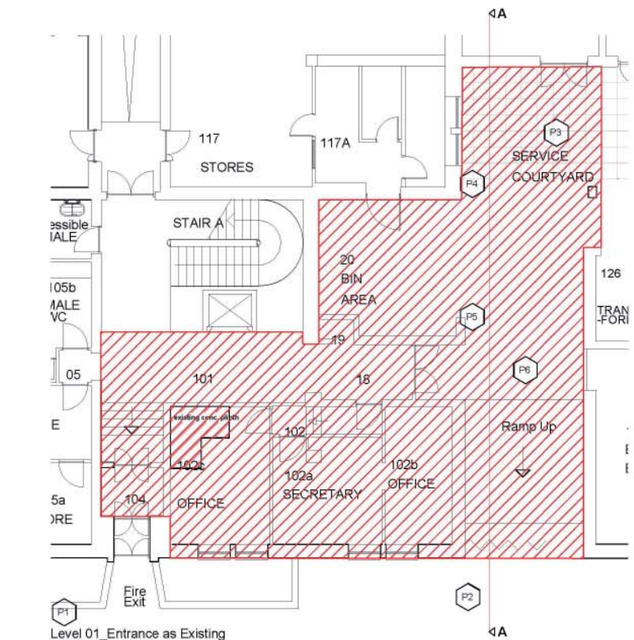
Status
PLANNING

Drafted • GP Checked • BS
Date • 20/04/19 Scale • 1:100 @ A1

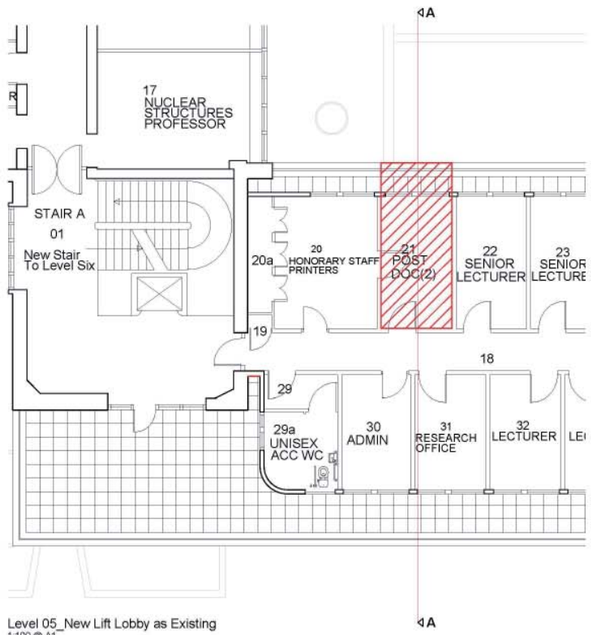
4.4 Accessibility Improvements

4.4.1 Zones as Existing

Section A-A as Existing
1:100 @ A1



Level 01_Entrance as Existing
1:100 @ A1



Level 05_New Lift Lobby as Existing
1:100 @ A1

Scale1:100

Extent of Phase 1 works


P1


P2

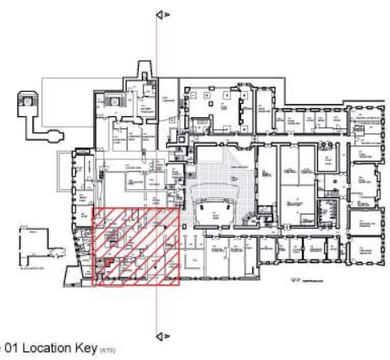

P3


P4


P5


P6

Photos merely serve to illustrate only part of the existing building condition and do not replace the requirement for the contractor to conduct their own site and condition survey.



Zone 01 Location Key (NTS)

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn: GR Chk'd: IMS Date: 17.05.19
Revision
01 Updated and issued for information
Drawn: EG Chk'd: EG Date: 30.12.17

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Zone 01
Entrance as Existing

Project No.
P17-051

Drawing No. Rev.
KEP-KB-XX-DR-A-4040-0101 02

Status
PLANNING

Created • LW Checked • RS
Date • 14/11/17 Scale • 1:100 @ A1

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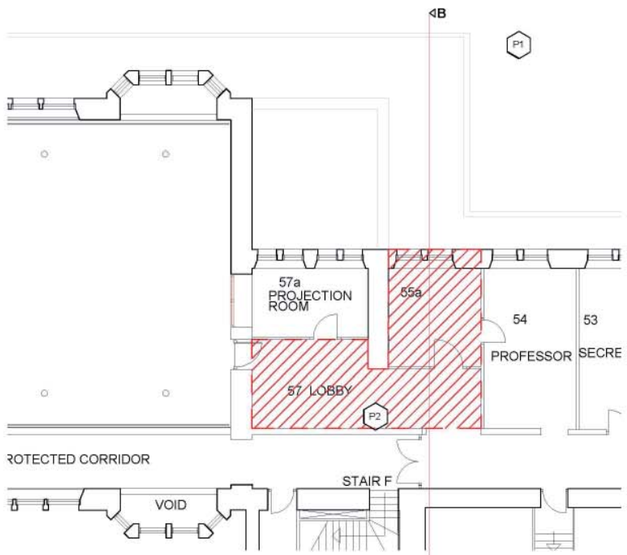
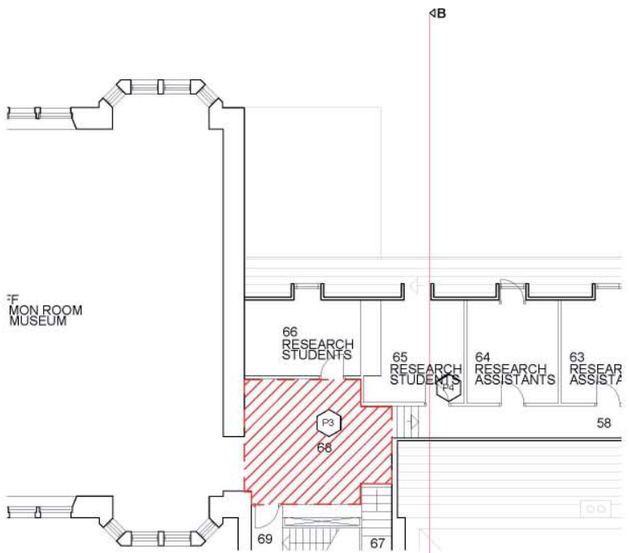
Note: All Levels require confirmation following Site Survey.

Section B-B as Proposed
1:100 @ A1



Level 03_Link Bridge Access and New Midi-Lift as Existing
1:100 @ A1



Level 04_Link Bridge Access and New Midi-Lift as Existing
1:100 @ A1

0 1 2 3 4 5m
Scale1:100

P1

P2

P3

P4

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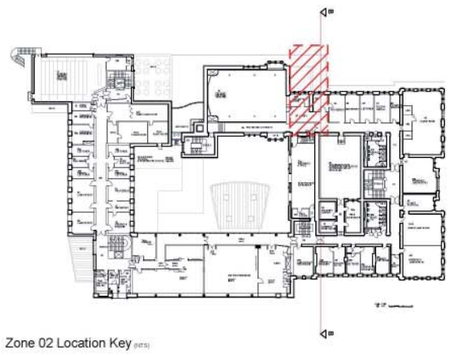

Zone 02 Location Key (NTS)

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn : GR Check : BG Date : 11.06.18
Revision
01 Updated and issued for information
Drawn : BG Check : BG Date : 20.12.17

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Project
KELVIN BUILDING
PHASE 1 WORKS

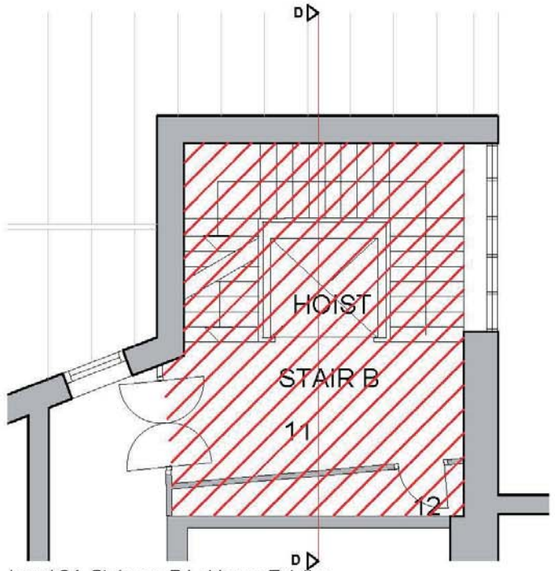
Drawing
Zone 02
Bridge Link and Midi-Lift as Existing

Project No.
P17-051

Drawing No.
KEP-KB-XX-DR-A-4040-0201
Rev.
02

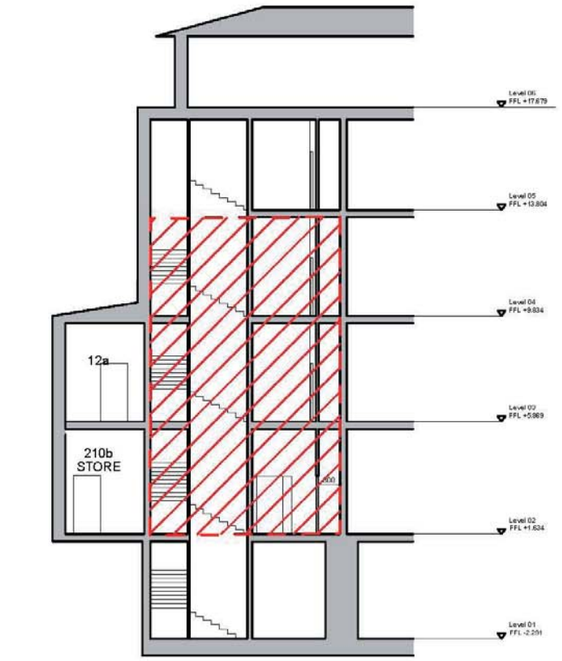
Status
PLANNING

Created • LW Checked • PS
Date • MTYYT Scale • 1 : 100 @ A1



Level 04_Staircore B Lobby as Existing

Revision			
01	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn : GR	Chk'd : RS	Date : 17.08.18	



Section D-D

scale 1:200 (@ A1)

Level 04: Stair B Lobby

Level 04: Store 12

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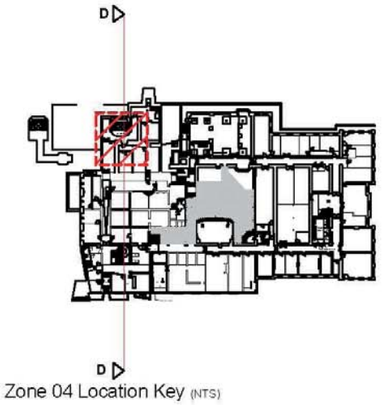

Zone 04 Location Key (NTS)

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Zone 4
Staircore B as Existing

Project No.
P17-051

Drawing No. KEP-KB-XX-DR-A-4040-0401 Rev. 01

Status
PLANNING

Created	• LW	Checked	• RS
Date	• 16/11/17	Scale	• 1: 100 @ A3

4.4 Accessibility Improvements

4.4.2 Formation of new Accessible Entrance

The feasibility study has identified an obvious opportunity to form a new fully accessible entrance to the building which will serve to reinforce a main single point of entry at ground level. This also forms a clear focal point that better addresses the vision of the campus wide masterplan.

Key considerations:

These works, in addition to the proposed reconfiguration of the current reception and entrance at level 1, will form the most substantial intervention to this category B listed building/ This intervention is regarded as necessary to improve the building's main access and general circulation, will have a major impact on the original Basil Spence extension and will therefore require sensitive consideration.

Key works:

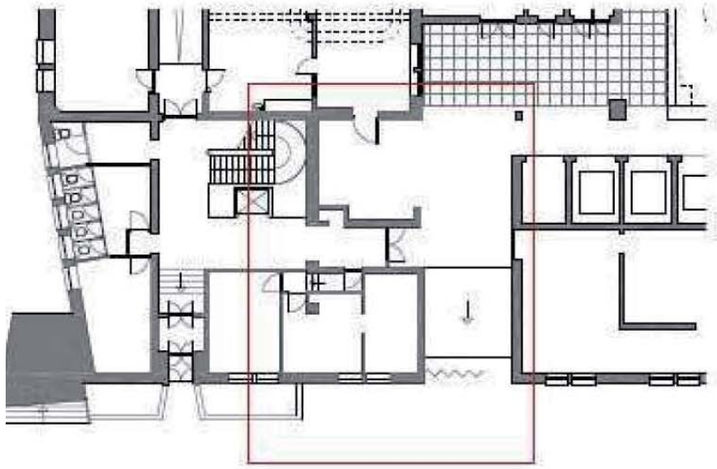
- Formation of a new engaging entrance as part of upgrade works to existing pend access (which currently provides back of house access to the stores / plant as well as courtyard)
- Reconfiguration of the stores immediately adjacent to the pend to form the main entrance / reception area (opened up for improved visibility through shop front glazing / new cladding treatment to walls and soffit.
- Partial enclosure of the pend is necessary to maintain existing store/ plant/ cycle access
- New main reception point for the building
- Direct link to new 5-storey lift to the rear of the pend (see item '1e, Formation of new 5-storey lift')
- Removal of the existing level 1 access stairs(TBC)

Existing / historic

Sir Basil Spence extension – main entrance

Proposed Accessible Entrance

Views within the existing pend



Existing layout (level 1)

Proposed layout (level 01)

4.0 Appendix

4.4 Accessibility Improvements

4.4.3 Formation of new 5 storey Lift

Formation of a new 5-storey external passenger lift within the courtyard as part of the new entrance works – providing the main vertical circulation with direct links to all floors.

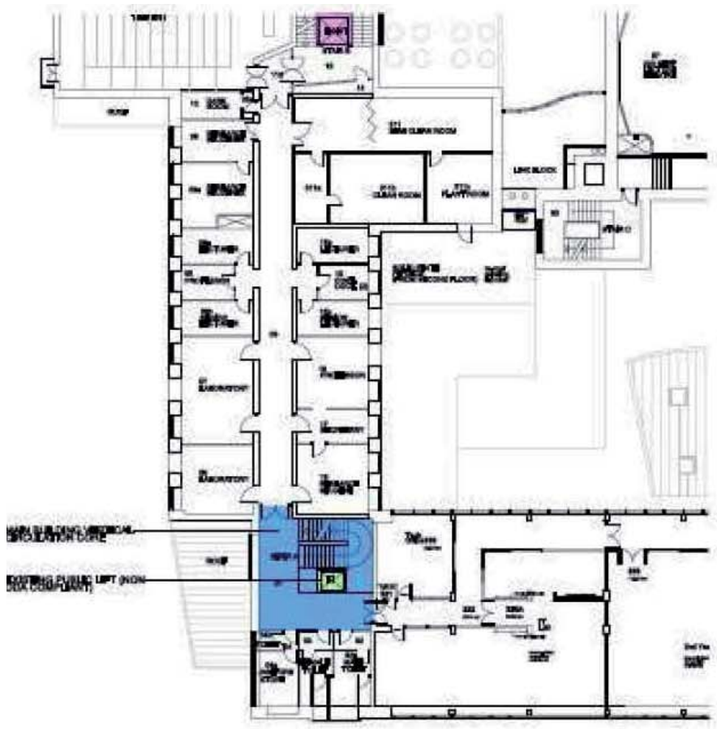
Suggested Criteria:

- 1 1600 kg / 17-21 person single car eco-efficient passenger lift
- Non Fire fighting / evacuation lift
- Single car / DDA compliant
- Transportation of hazardous substances to be considered
- European lift regulation – 'hands free' 6 In accordance with the University Design Guide where possible

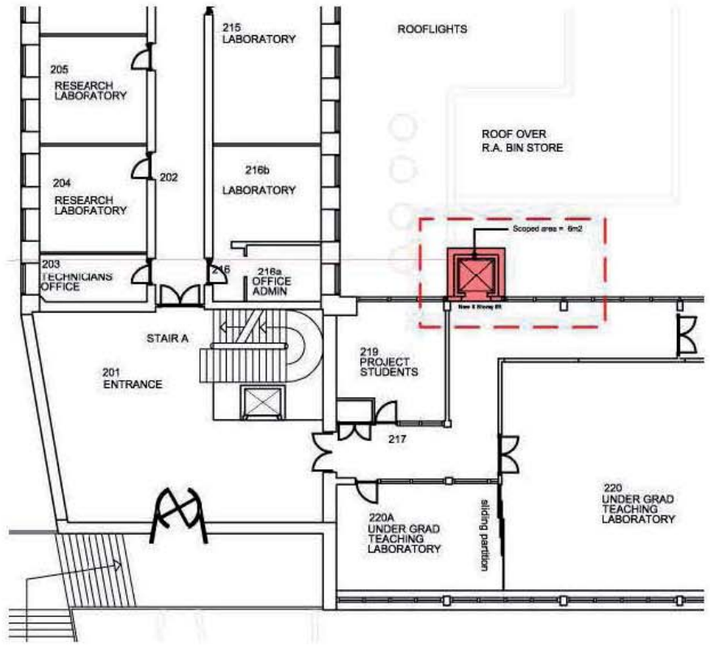
Existing / historic

View from within courtyard looking at Sir Basil Spence extension

Proposed 5 storey lift to courtyard



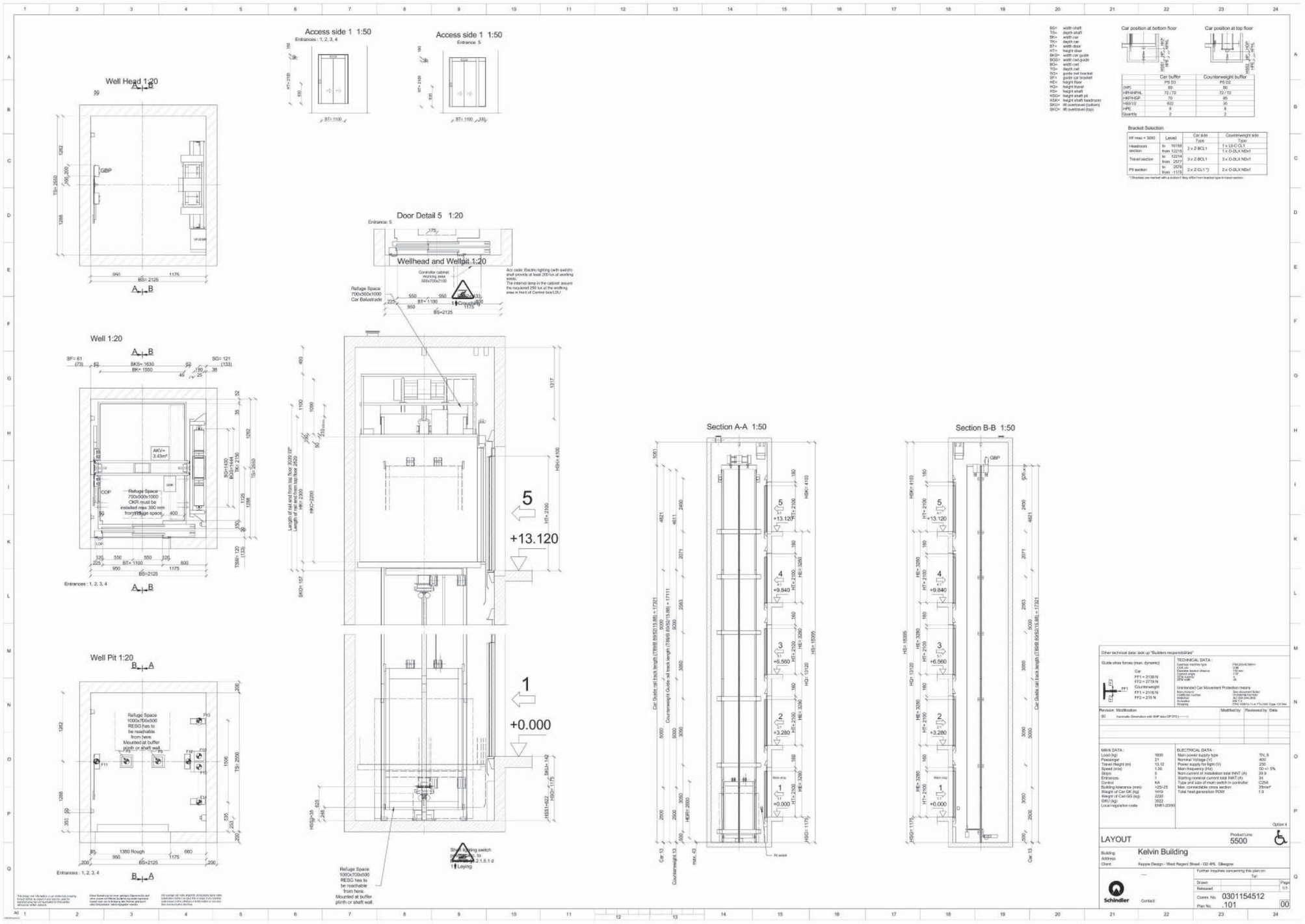
Existing lift capacity/ locations (main public / goods)



Proposed new 5-storey public lift (fire evacuation status TBC)

4.4 Accessibility Improvements

4.4.3 Formation of new 5 storey Lift



Proposed new 5-storey public lift (fire evacuation status TBC)

4.0 Appendix

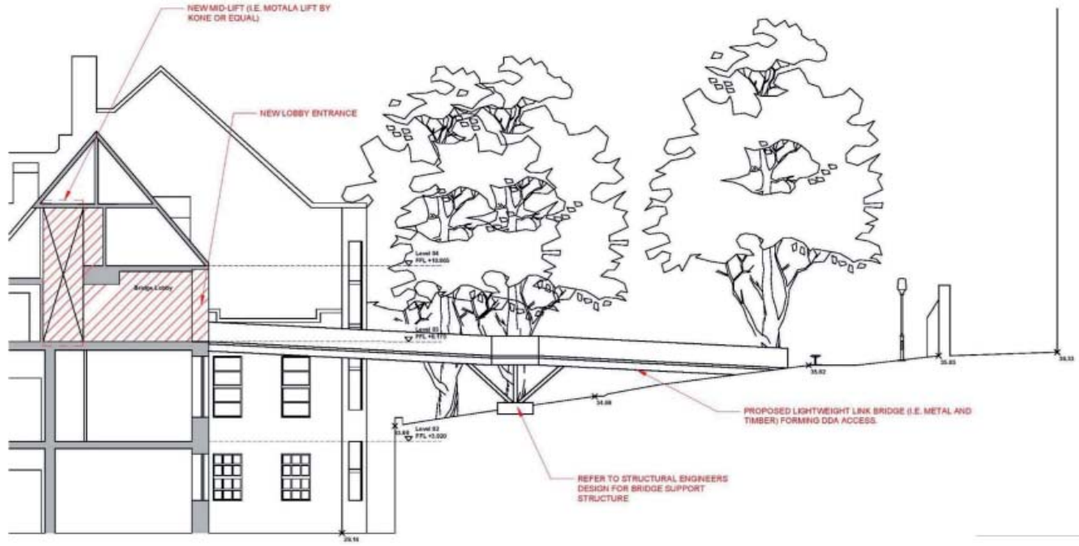
4.4 Accessibility Improvements

4.4.4 New Link Bridge

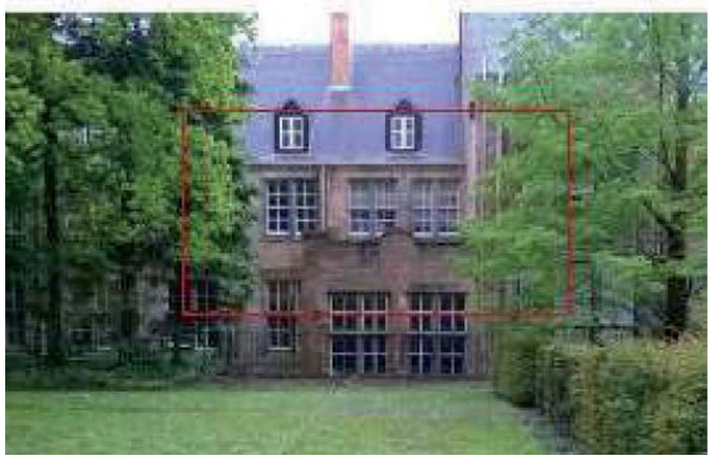
Formation of a new 'link bridge' to the Kelvin Building's east elevation located opposite the rear of the 'stair building'. The bridge connection will provide necessary accessible linkage direct to level 3 and the rear of the lecture theatre at high level.

Key Works:

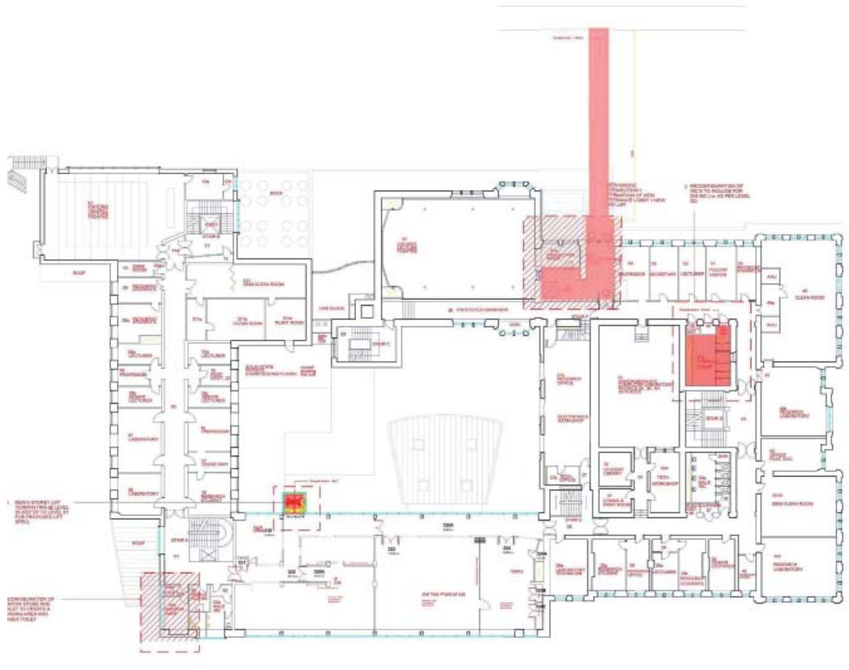
- Formation of a relatively lightweight link bridge
- Reconfiguration room 55a / lobby to allow for a new lobby / 'out of hours' entrance to the building



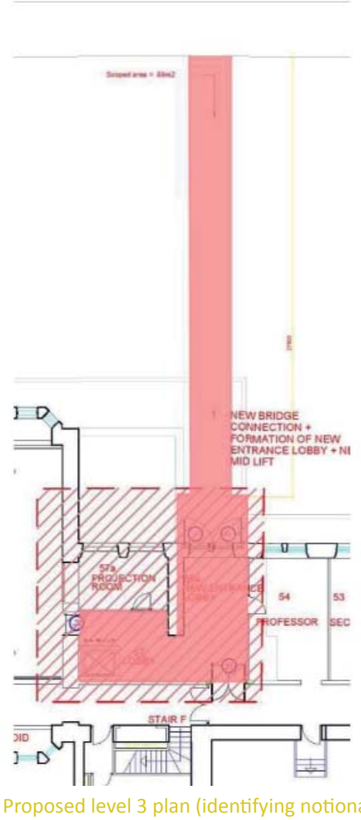
Proposed section (identifying notional bridge link)



East elevation as existing

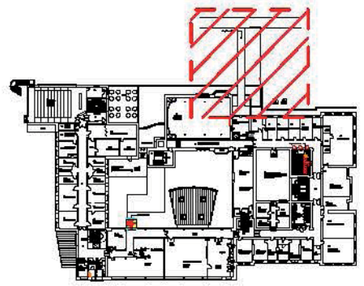


Proposed level 3 plan (identifying location of proposed works)



Proposed level 3 plan (identifying notional bridge link / internal wall Reconfiguration works)

4.0 Appendix



Location key

Proposed Link Bridge Visual

4.0 Appendix

4.4 Accessibility Improvements

4.4.5 Internal Accessibility Upgrades

- Provision of accessibile 'mid-lift ' - (level 03/04)

Installation of new mid-lift providing necessary DDA connections between level 3 and 4.

Key Works:

- Reconfiguration of projection room 57a / lobby at level 3.
- Formation of new mid-lift, providing accessible connections between level 3 / 4 (common room).
- Eco-efficient mid- lift / constant pressure.

Improved accessibility in residential and public buildings

A lift in a multi-story building is a convenience for anyone, but for many people it is a necessity.

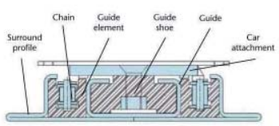
The KONE Motala™ platform lift is designed with a compact self-supporting floor mounted structure that is both easy and quick to install.

Eco-efficient
The drive system is based around a unique guided chain solution with a single phase motor allowing low power consumption of 0.55 kW from only a 10A supply. The KONE Motala has LED lighting with automatic standby when not in use so the consumption is reduced further still.

Safe and easy to use
The inverter drive provides smooth operation ensuring accurate levelling to floor. The landing stations feature "one touch call" push-buttons meaning the KONE Motala is always easy to use.

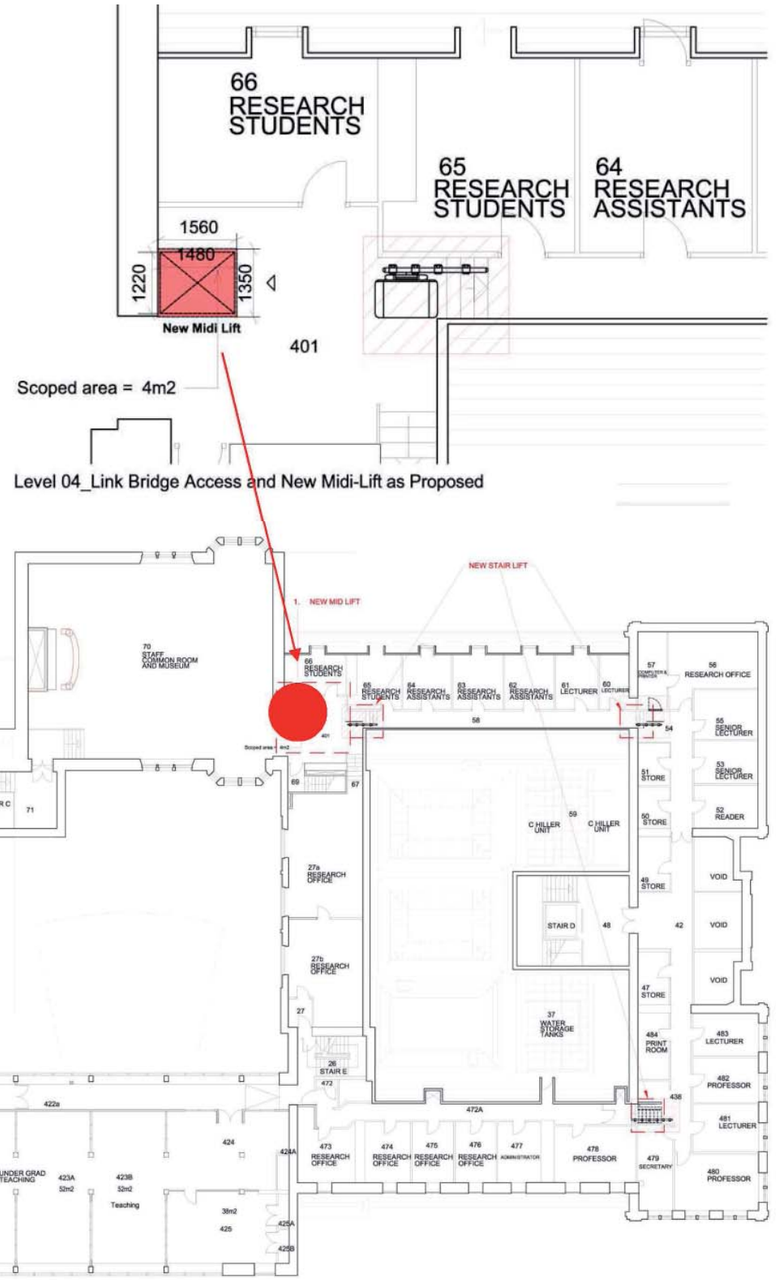
Key benefits

- Space-efficient, the largest platform in the most compact shaft
- Low power consumption
- Single phase 10A supply
- Easy to use
- Self-supporting structure
- No machine room required
- Fast installation
- High-quality construction
- Quiet and comfortable
- Design options to suit any building
- Optional voice communication with 24-hour KONE Customer Service Centre
- 10 year warranty on chain guide system
- 5 year warranty on motor and gearbox



Existing / historic

Existing entranceinto common room (level 4)



Proposed mid lift location

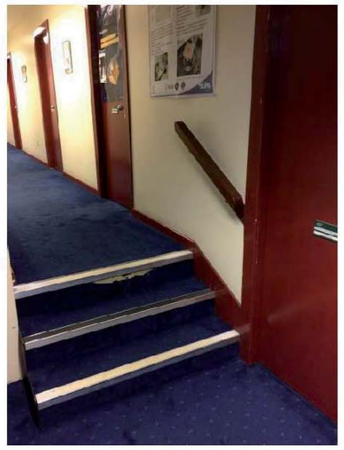
4.4 Accessibility Improvements

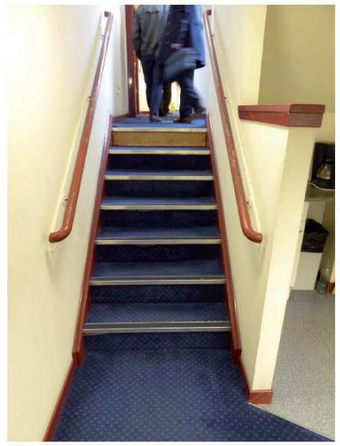
4.4.5 Internal Accessibility Upgrades

- Formation of Stair Lifts to Level 04

Three new stair lifts have been identified as necessary to enable Accessibility to upper level offices from Level 04

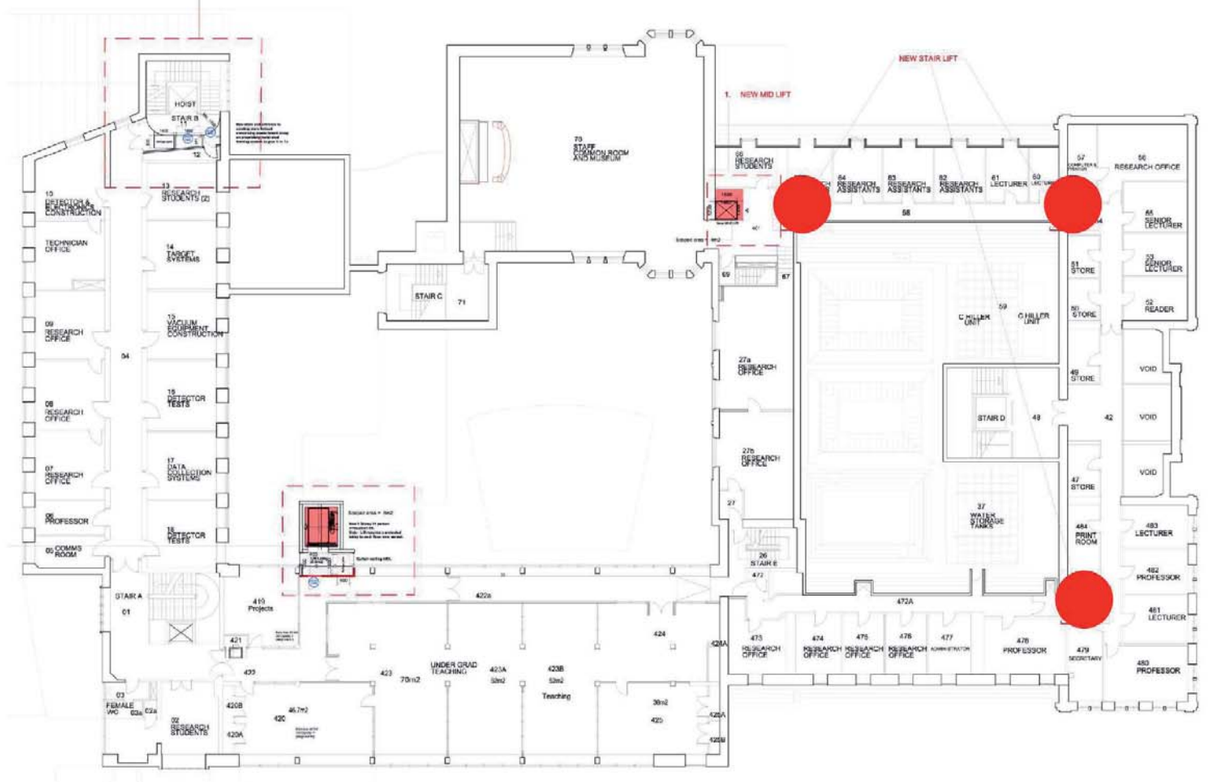
Existing / historic



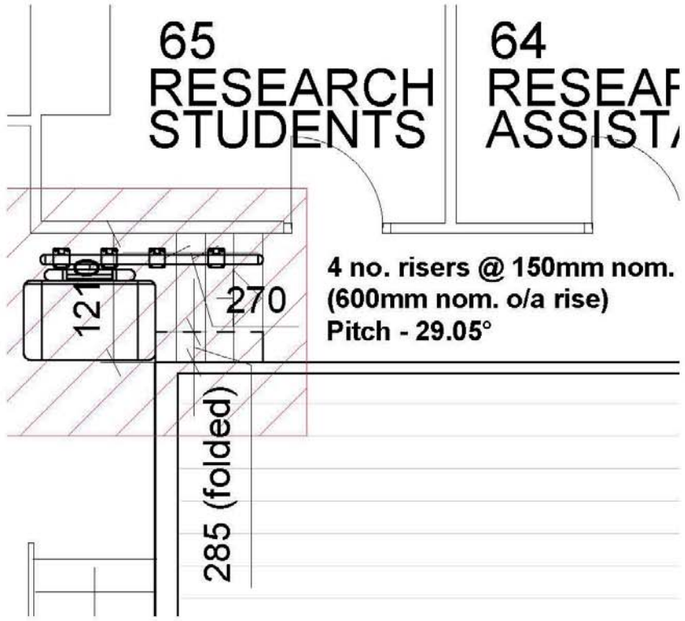


Existing stairs at level 04

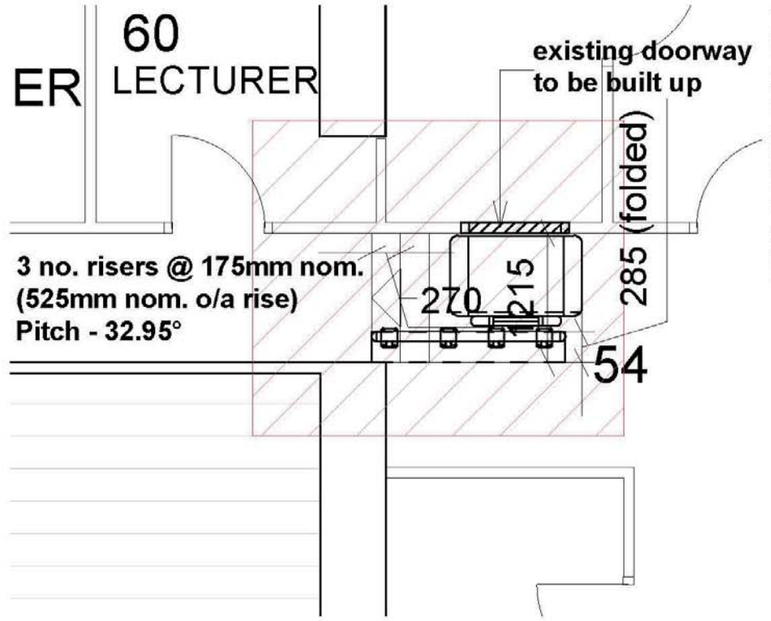
Vision / proposal



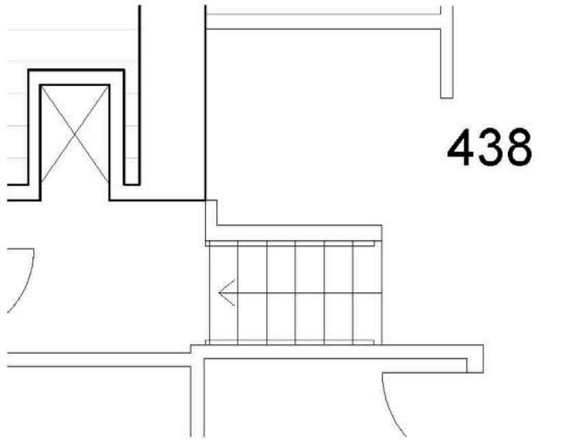
Proposed mid lift location



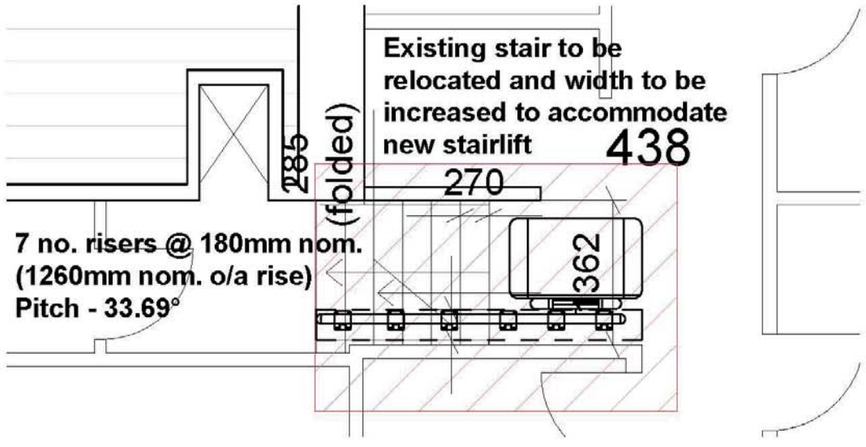
Level 04_Stairlift 1 Plan as Proposed



Level 04_Stairlift 2 Plan as Proposed



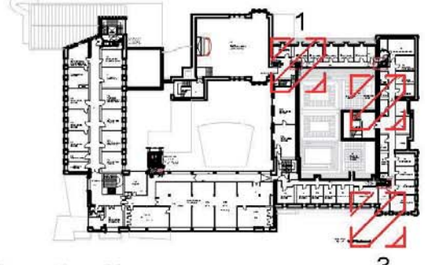
Level 04_Stairlift 3 Plan as Existing



Level 04_Stairlift 3 Plan as Proposed

Stairlift Plans as Proposed
Scale 1:50

Scale1:50



Location Key (1:1250)

New Stairlifts:

General - 3 no. new stairlifts to be installed at existing stairs.

1. New stairlifts to be 'Stannah Stainser SR' or equivalent and consented to wall-mounted in accordance with Manufacturer's recommendations.

2. Existing partition at location of stairlift 3 to be removed and new partition constructed comprising plasterboard lining and 12mm WBP plywood on proprietary metal stud framing system.

3. Stair 3 to be widened to accommodate new stairlift.

4. Floor covering to be renewed as required (anti-slip vinyl - PTV 36+ wet) and proprietary stair nosings with contrasting colouyr inserts ('Gradus' or equivalent and consented to.).

Revision			
03	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn : TD	Chk'd : RS	Date : 17.08.18	
Revision			
02	Amended and re-issued for Stage 3.		
Drawn : TD	Chk'd : RS	Date : 19.02.18	
Revision			
01	Updated for Stage 3 issue		
Drawn : TD	Chk'd : RS	Date : 15.02.18	

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Stairlift Plans as Proposed

Project No.
P17-051

Drawing No.
KEP-KB-04-DR-A-8050-0112

Rev.
03

Status
PLANNING

Created	TD	Checked	RS
Date	13/02/18	Scale	1: 50 @A3

4.5 Fire Upgrade Works

4.5.1 Upgrade of Fire Doors & Risers

Fire Door Upgrades:

We have been asked to upgrade specific doors within the kelvin building to fire doors as part of the overall Building fire strategy improvements.

The following doors have been surveyed and confirmed as those requiring upgrade to a minimum of 30minutes and where possible 60 minute fire integrity.


P1.1 - CORRIDOR (163)


P1.2 - PLANT ROOM (164)


P1.3 - (165)


P1.4 - CORRIDOR (166)


P1.5 - STAIR D (151)


P1.6 - LASER LAB (153a)


P1.7 - STAIR D (151)


P1.8 - CORRIDOR (136)


P1.9 - (137)


P1.10 - WELDING BAY (135)


P1.11 - CORRIDOR (136)


P1.12 - CORRIDOR (118)


P1.13 - CORRIDOR (107)


P1.14 - (113) - (NEW DOOR)

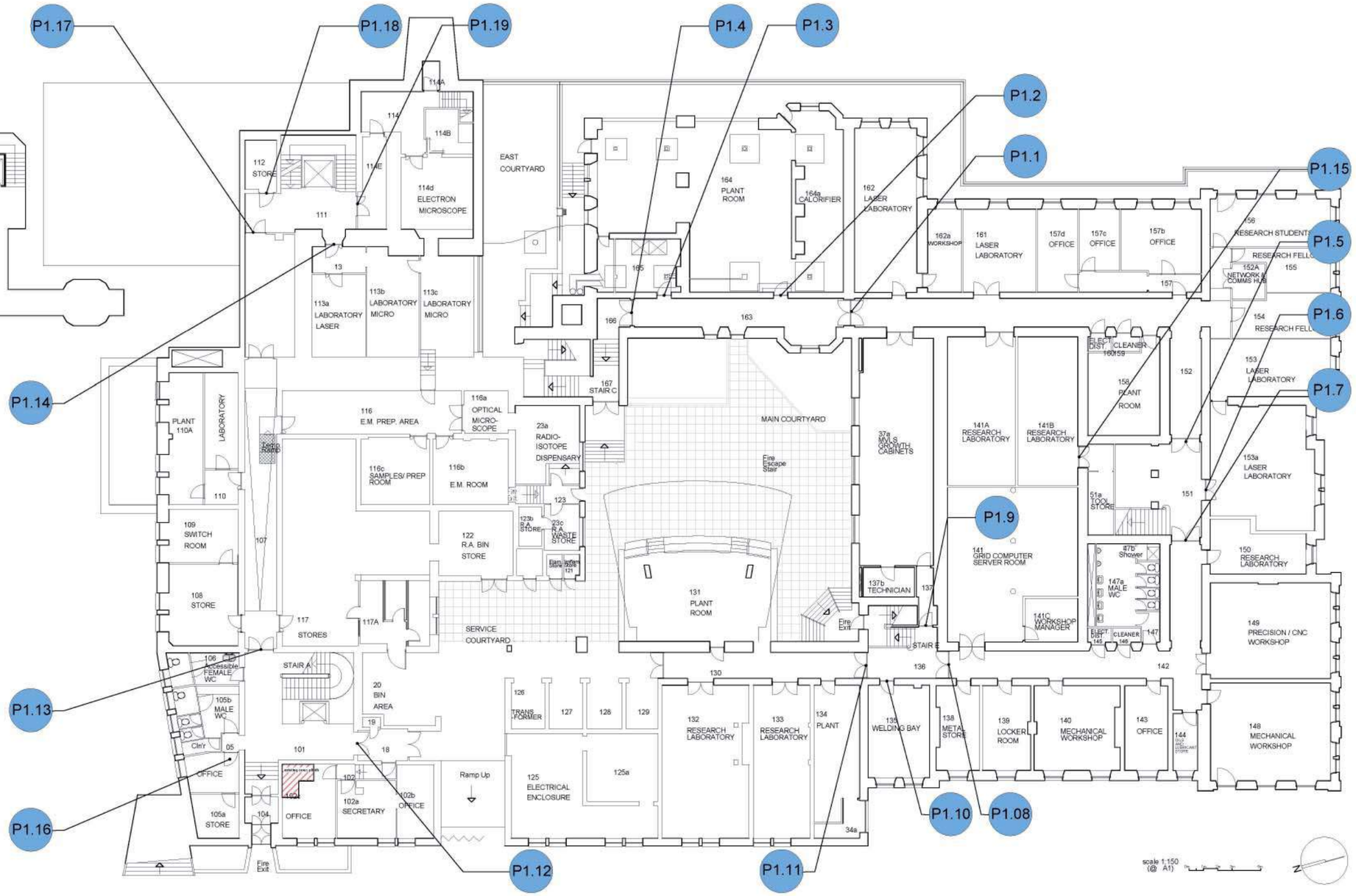

P1.15 - RESEARCH LAB (141B)


P1.16 - OFFICE (105B)


P1.17 - CORRIDOR (111) (NEW DOOR)


P1.18 - STORE (112) (NEW DOOR)


P1.19 - (114E) (NEW DOOR)



19 NO. DOORS

Revision	01
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Chkd	RS
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PHASE 1 WORKS

Drawing
Existing Floor Plan
Level 01 - Replacement Doors

Project No.
P17-051

Drawing No. — Rev.
KEP-KB-01-DR-A-7060-0011 — 01

Status
PLANNING

Created	TG	Checked	RS
Date	04/07/18	Scale	1: 150 @ A1

P2.1 - STAIR A (201)

P2.2 - STAIR A (201)

P2.3 - CORRIDOR (228)

P2.4 - (229)

P2.5 - LAB TECH. (227)

P2.6 - CORRIDOR (228)

P2.7 - COMPUTER ROOM (243d)

P2.8 - STAIR D (240)

P2.9 - ENTRANCE (241)

P2.10 - STAIR D (240)

P2.11 - LOBBY (243)

P2.16 - PLANT ROOM (242)

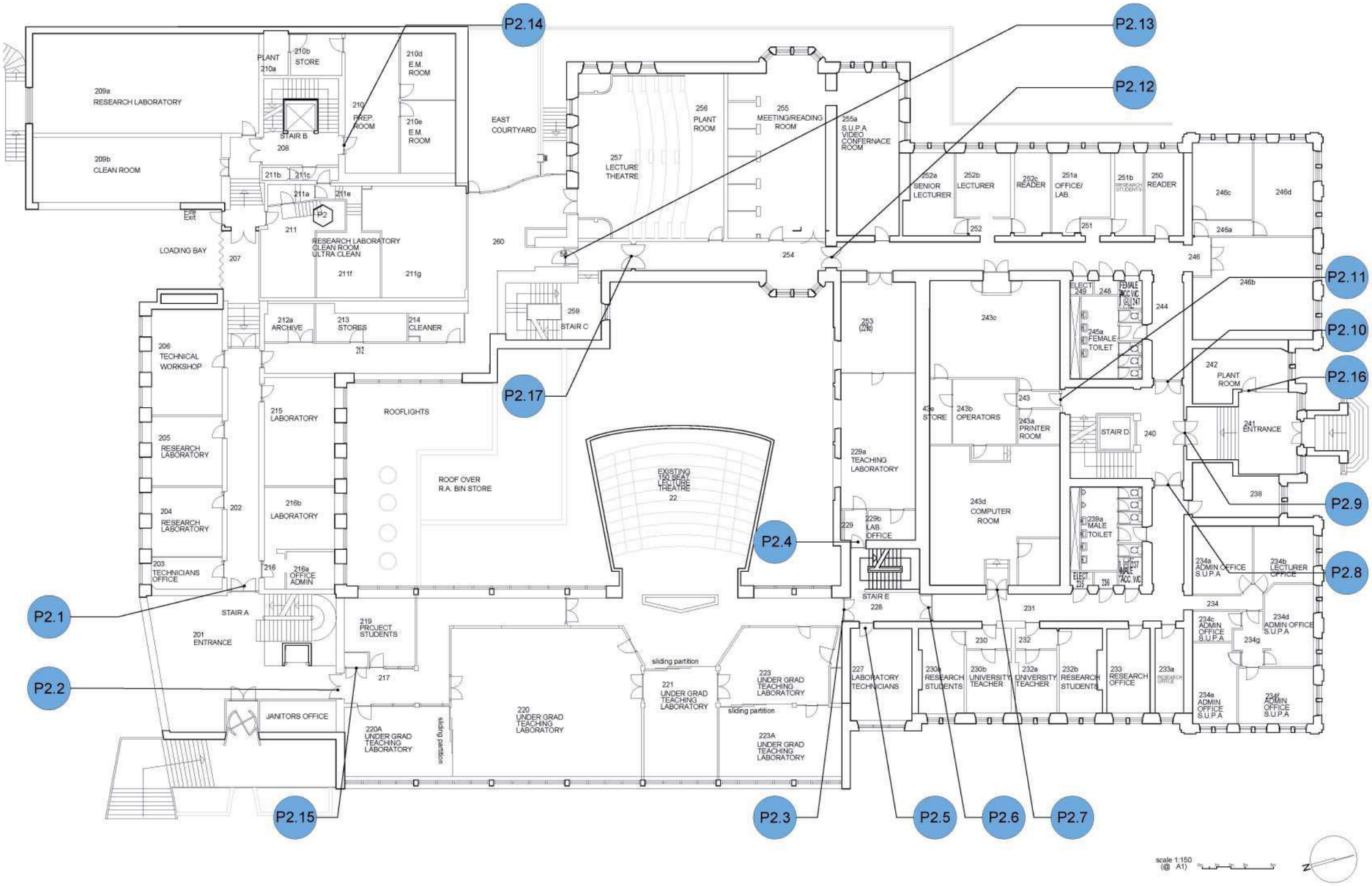
P2.12 - CORRIDOR (254)

P2.17 - CORRIDOR (258)

P2.13 - CORRIDOR (258)

P2.14 - PREP. ROOM (210)

P2.15 - ELECTRICAL RISER



17 NO. DOORS

Revision 01 — ISSUED FOR DETAILED PLANNING AND LBC
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Drawing: Existing Floor Plan Level 02 - Door Replacement

Project No: P17-051

Drawing No: KEP-KB-02-DR-A-7060-0011 Rev: 01

Status: PLANNING

Created: TD Checked: TD
Date: 05/07/18 Scale: 1:150 @ A1


P3.1 - STAIR A (301)


P3.2 - JANITOR (304)


P3.3 - ACCESSIBLE TOILET (303)


P3.4 - MALE TOILET (302)


P3.5 - CORRIDOR (322)


P3.6 - CORRIDOR @ STAIR E (360)


P3.7 - LAB TECHNICIAN (326a)


P3.8 - CORRIDOR

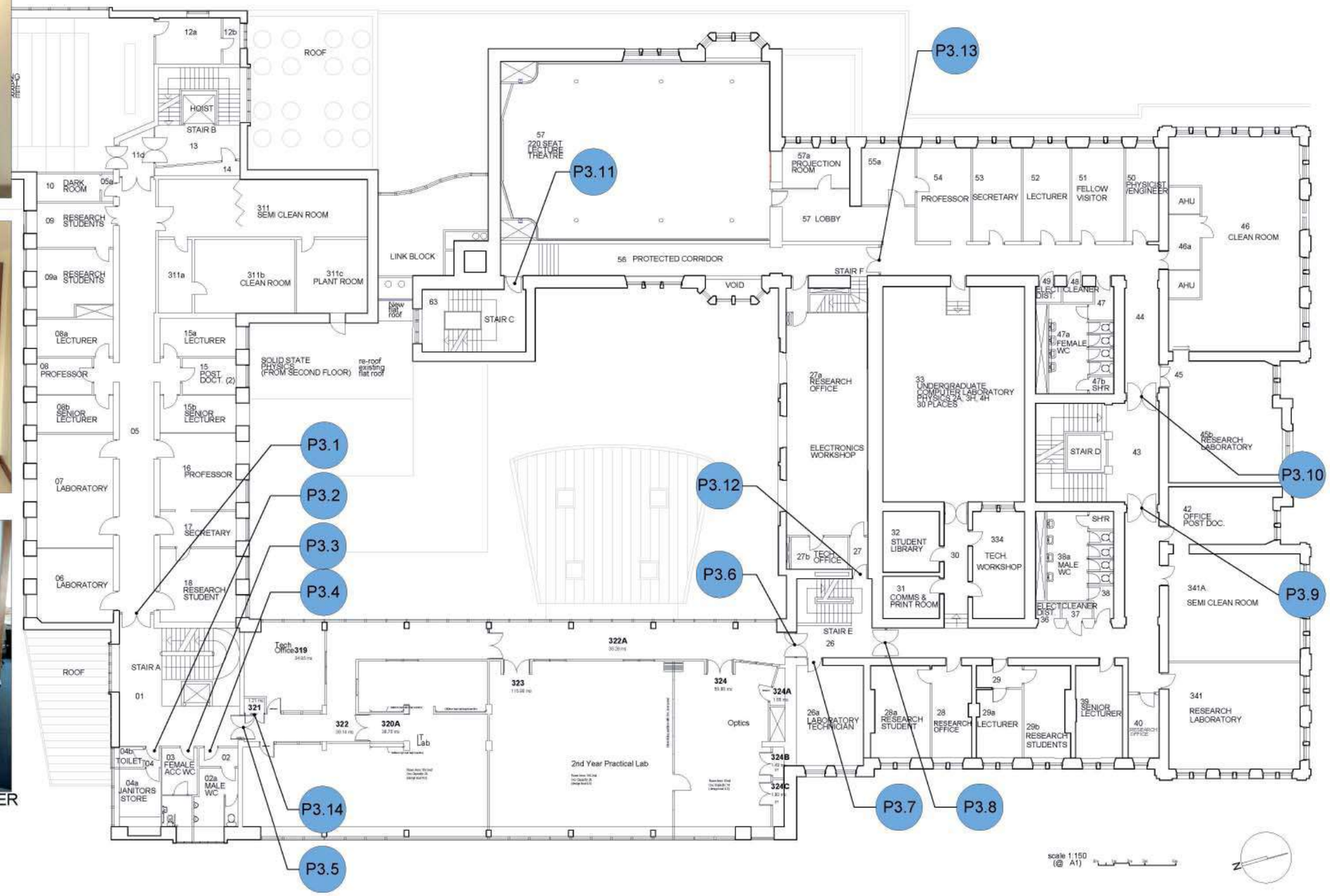
P3.12 - LOBBY (327)


P3.9 - CORRIDOR @ STAIR D (343)

P3.13 - CORRIDOR (356)


P3.10 - CORRIDOR @ STAIR D (344)


P3.14 - ELECTRICAL RISER (321)




P3.11 - STAIR C (363)

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Existing Floor Plan
Level 03 - Replacement Doors

Project No
P17-051

Drawing No
KEP-KB-03-DR-A-7060-0011

Rev
01

Status
PLANNING

Created TD Checked TD
Date 05/07/19 Scale 1:150 @ A1

14 NO. DOORS


P4.1 - STAIR B (411)


P4.2 - STAIR A (401)


P4.3 - CORRIDOR (422)


P4.4 - FEMALE WC (403)


P4.5 - RESEARCH STUDENTS (402)


P4.6 - CORRIDOR (422a)


P4.7 - CORRIDOR (472a)


P4.8 - RESEARCH OFFICE (427)


P4.12 - STAIR C (471)


P4.9 - STAIR D (480)


P4.10 - RESEARCH OFFICE (427A)


P4.11 - STAFF COMMON ROOM (470)

12 NO. DOORS

Revision	01 ISSUED FOR DETAILED PLANNING AND LBC
Client	UNIVERSITY OF GLASGOW
Project	KELVIN BUILDING PHASE 1 WORKS
Drawing	Existing Floor Plan Level 04 - Replacement Doors
Project No	P17-051
Drawing No	KEP-KB-04-DR-A-7060-0011
Rev	01
Status	PLANNING

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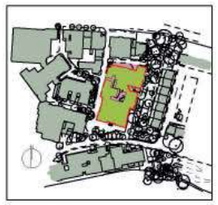


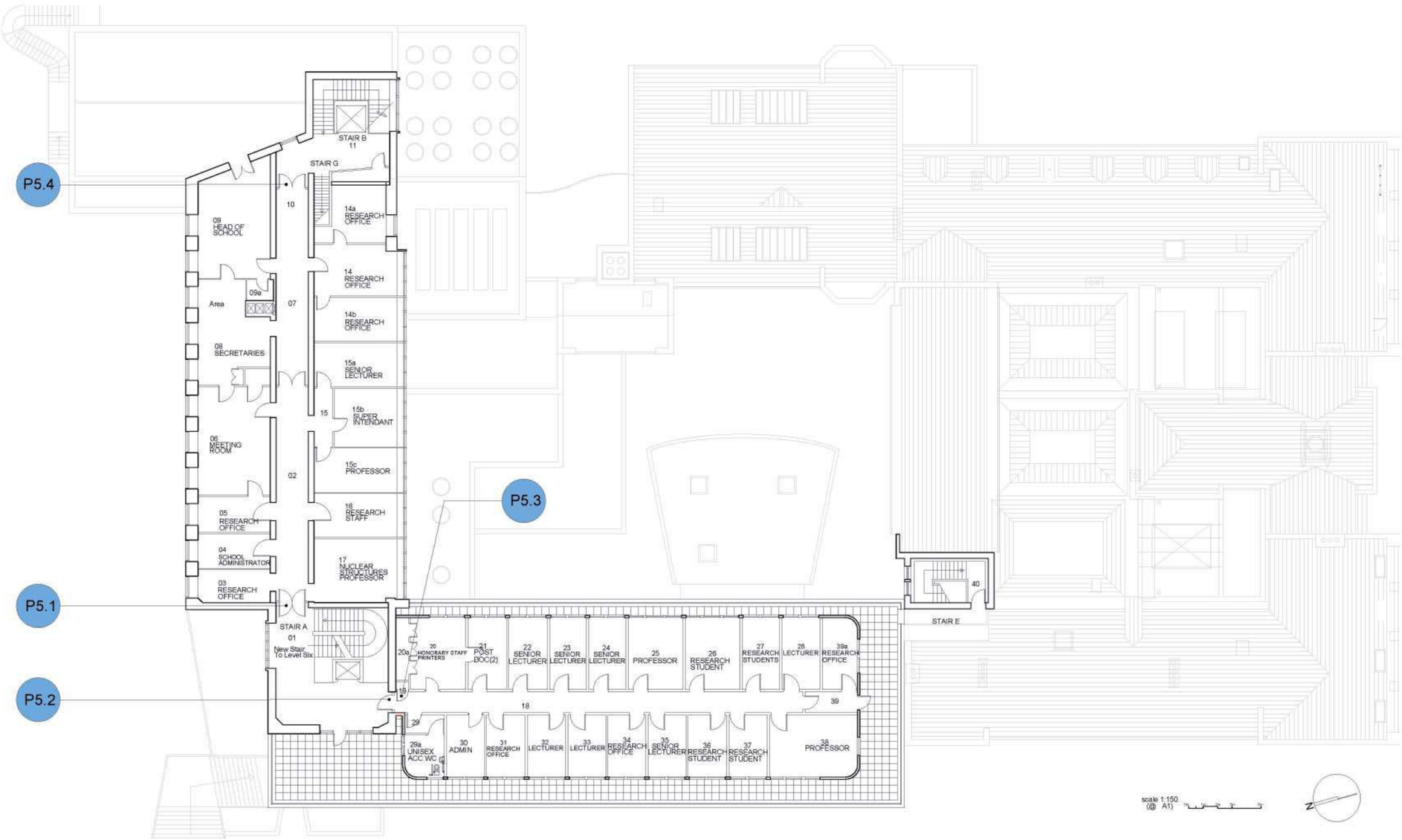
KEYPLAN NTS

P5.1 - STAIR A (501)

P5.2 - STAIR A (501)

P5.3 - RISER (519)

P5.4 - STAIR B (511)



4 NO. DOORS

Revision
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PHASE 1 WORKS

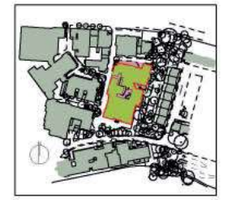
Drawing
Existing Floor Plan
Level 05 - Replacement Doors

Project No.
P17-051

Drawing No. KEP-KB-05-DR-A-7060-0011 Rev. 01

Status
PLANNING

Created • TD Checked • TD
Date • 04/07/18 Scale • 1:150 @ A1

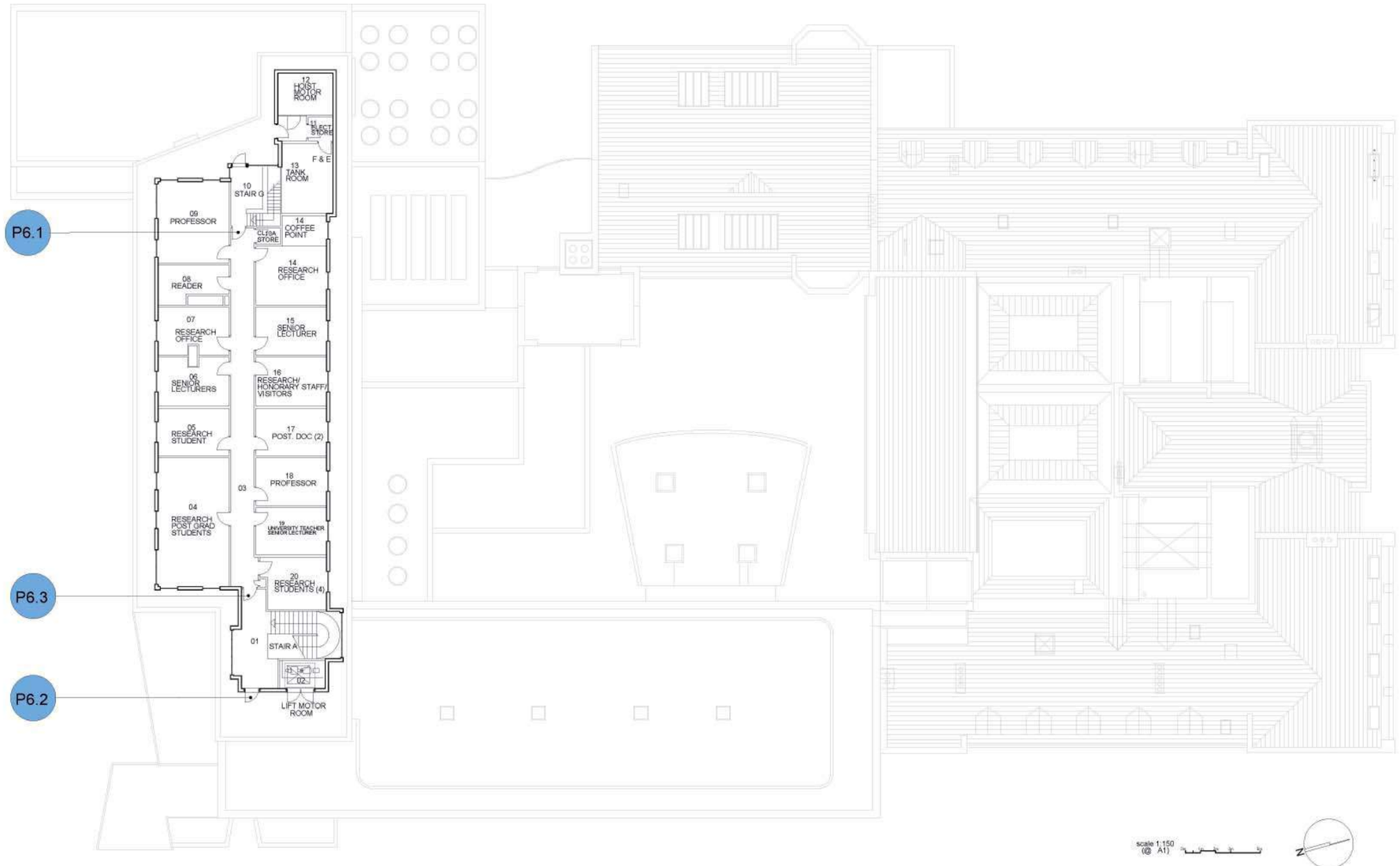


KEYPLAN NTS

P6.1 - STAIR G (610)

P6.2 - LIFT MOTOR ROOM (602)

P6.3 - STAIR A (601)



3 NO. DOORS

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01 ISSUED FOR DETAILED PLANNING AND LBC
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PHASE 1 WORKS

Drawing
Existing Floor Plan
Level 06 - Replacement Doors

Project No
P17-051

Drawing No: KEP-KB-06-DR-A-7060-0011 Rev: 01

Status
PLANNING

Created • TC Checked • RS
Date • 04.07.19 Scale • 1: 150 @ A1

4.0 Appendix

4.5 Fire Upgrade Works

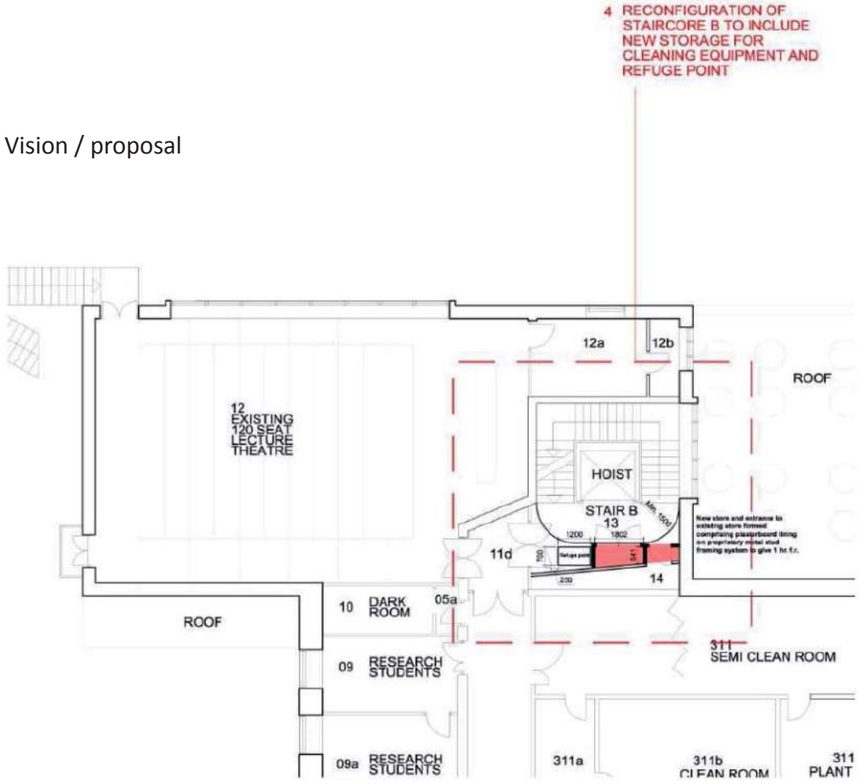
4.5.2 Reconfiguration of Stair Core B

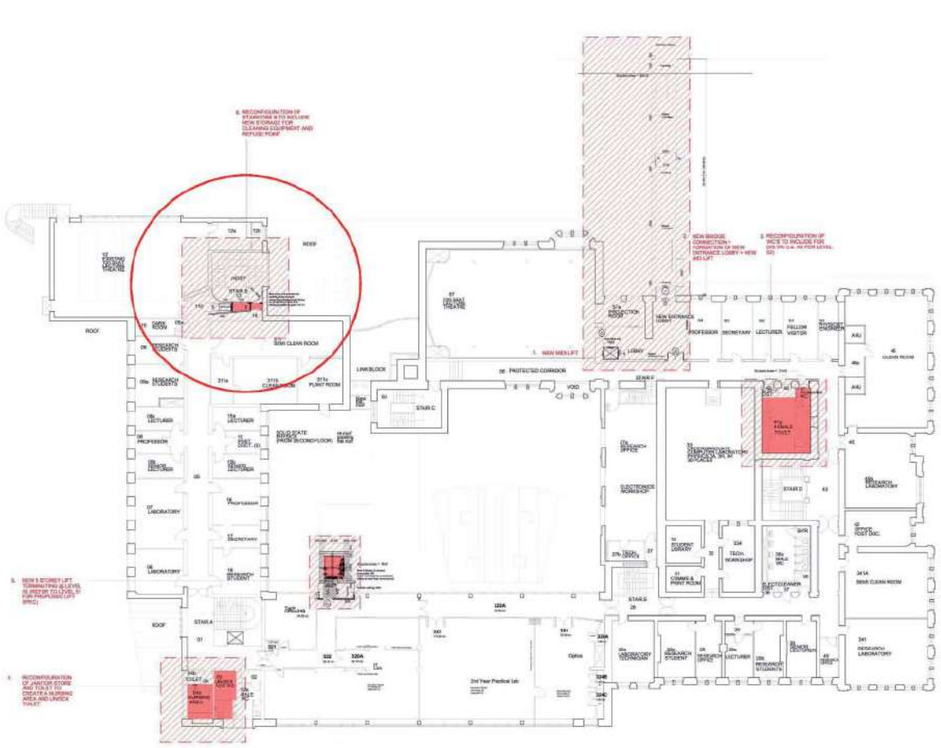
Insertion of a 60minute fire rated cupboard within stair core B (various floors)

Existing/ historic

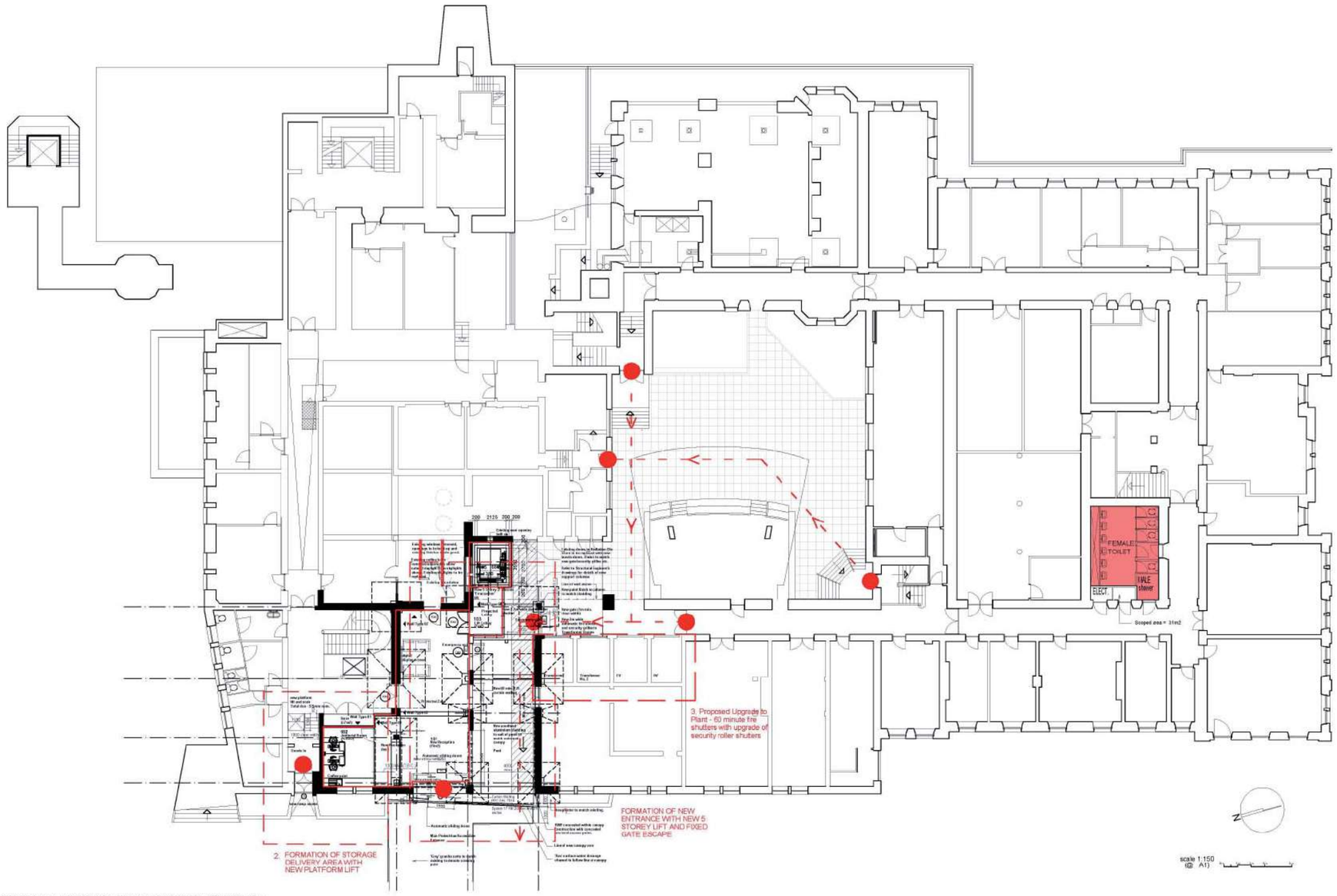
Existing staircore B at level 04

Vision / proposal





KEY PLAN NTS



Main Exit Doors

D** FD60 — FD60S Doors

60 min. FR walls

Note Fire Strategy requires to be reviewed in relation to the overall building fire strategy

Revision
03 ISSUED FOR DETAILED PLANNING AND LBC
Drawn : GM Chkd : MS Date : 17.05.19

Revision
02 Amended sent as issued for Stage 3
Drawn : RS Chkd : MS Date : 19.02.19

Revision
01 updated for Stage 3 issue
Drawn : RS Chkd : MS Date : 14.02.19

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PHASE 1 WORKS

Drawing
Fire Strategy as Proposed
Level 01

Project No.
P17-051

Drawing No. — Rev.
KEP-KB-01-DR-A-2560-0110 — 03

Status
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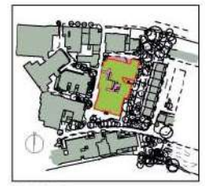
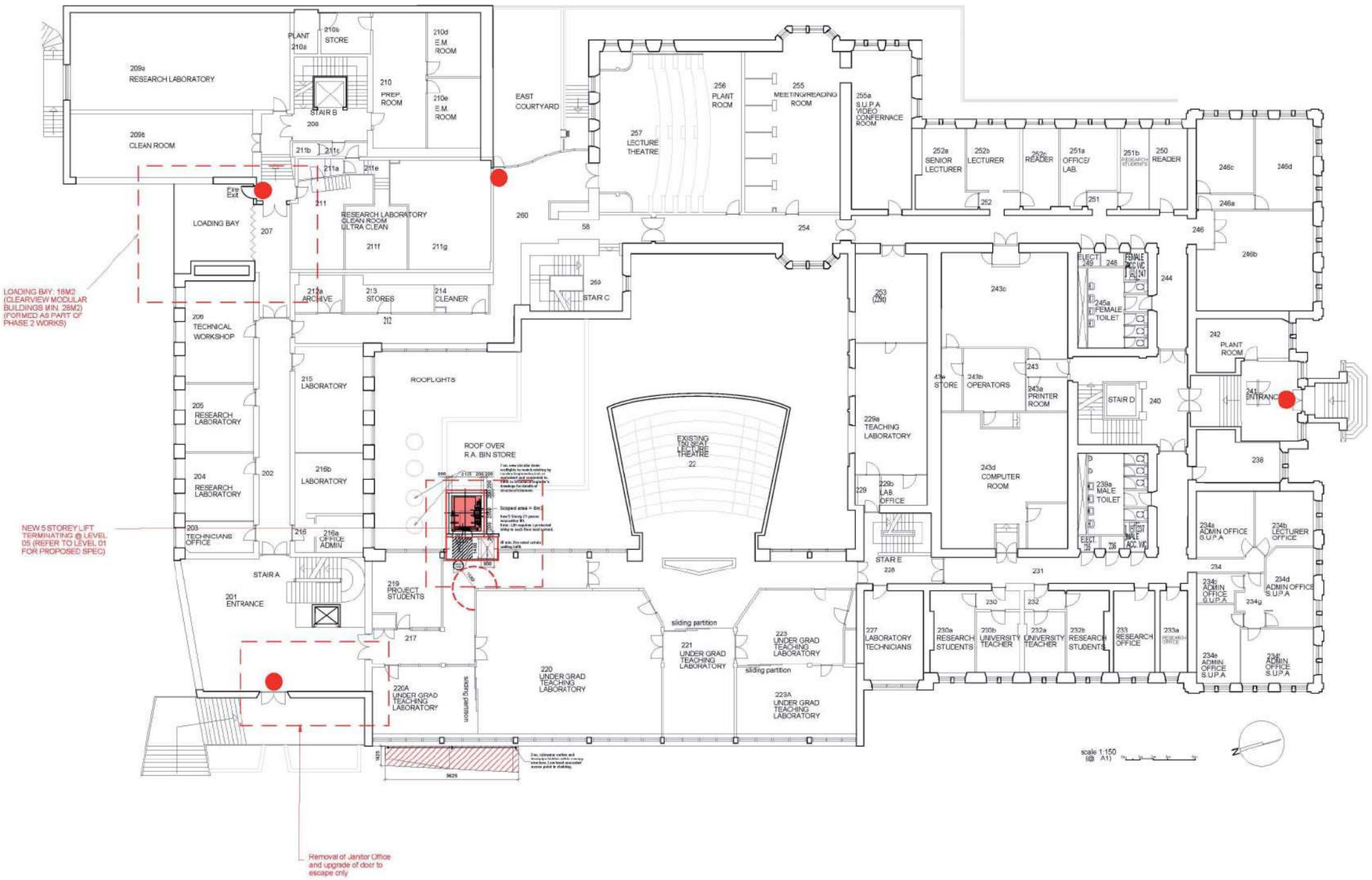
Drawn : LW Checked : RS
Date : 21/12/17 Scale : 1 : 150 @ A1



KEYPLAN NTS



Main Exit Doors

D** FD60 FD60S Doors

60 min. FR walls

Note Fire Strategy requires to be reviewed in relation to the overall building fire strategy

Revision			
03	ISSUED FOR DETAILED PLANNING AMENDS		
Drawn - DS	Check - EC	Date - 17.05.19	
Revision			
02	Amended and re-issued for Stage 3.		
Drawn - EC	Check - EC	Date - 13.02.19	
Revision			
01	Updated for Stage 3 Issue		
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UNIVERSITY OF GLASGOW

Project
KELVIN BUILDING
PHASE 1 WORKS

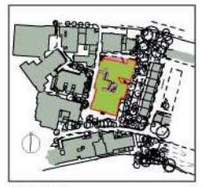
Drawing
Fire Strategy as Proposed
Level 02

Project No
P17-051

Drawing No | Rev
KEP-KB-02-DR-A-2560-0110 | 03

Status
PLANNING

Created: LW | Checked: EC
Date: 22/12/17 | Scale: 1:150 @ A1



KEYPLAN NTS

Main Exit Doors

D** FD60 — FD60S Doors

60 min. FR walls

4 RECONFIGURATION OF STAIRCORE 9 TO INCLUDE NEW STORAGE FOR CLEANING EQUIPMENT AND REFUGE POINT

1 NEW BRIDGE CONNECTION & FORMATION OF NEW ENTRANCE LOBBY AND MIDI LIFT.

2 RECONFIGURATION OF WC'S TO INCLUDE FOR DIS WC (i.e. AS PER LEVEL 02)

NEW 5 STOREY LIFT TERMINATING @ LEVEL 05 (REFER TO LEVEL 01 FOR PROPOSED SPEC)

RECONFIGURATION OF JANITOR STORE AND TOILET TO CREATE A NURSING AREA AND UNISEX TOILET

Note Fire Strategy requires to be reviewed in relation to the overall building fire strategy

scale 1:150 (@ A1)

Revision			
05	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn : DO	Check : EG	Date : 17.09.19	
Revision			
04	Bridge Link added/scale as per Client instruction at meeting on 20/09/19. Re-issued for Stage 3.		
Drawn : TO	Check : EG	Date : 24.09.19	
Revision			
03	Amended to remove Bridge Link proposal as part of Stage 1		
Drawn : EG	Check : EG	Date : 13.09.19	
Revision			
02	Amended and re-issued for Stage 3.		
Drawn : EG	Check : EG	Date : 18.02.19	
Revision			
01	updated for Stage 3 issue		
Drawn : EG	Check : EG	Date : 14.02.19	

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Project
KELVIN BUILDING
PHASE 1 WORKS

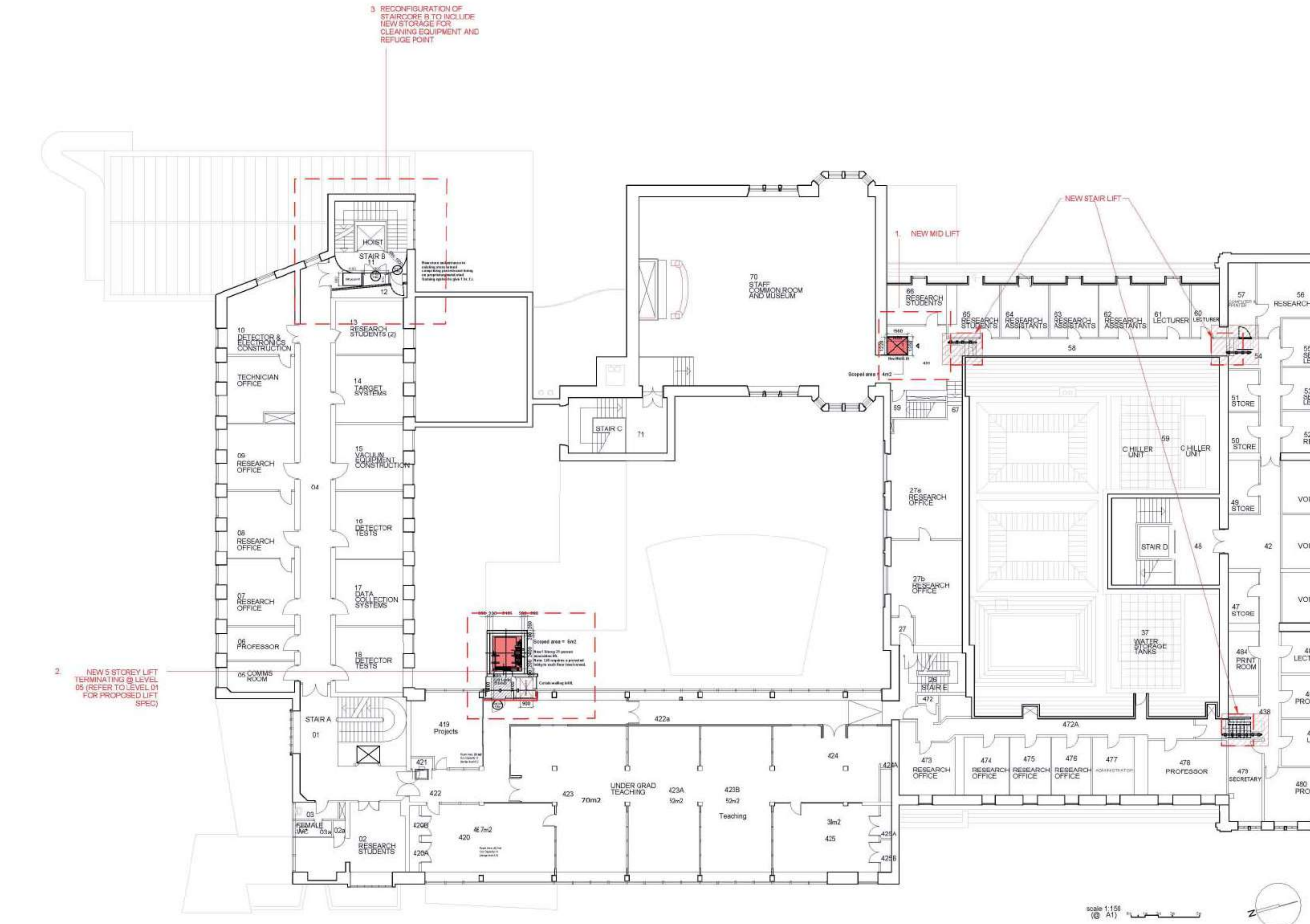
Drawing
Fire Strategy as Proposed
Level 03

Project No.
P17-051

Drawing No. — Rev.
KEP-KB-03-DR-A-2560-0110 — 05

Status
PLANNING

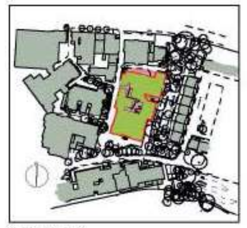
Created ▪ LW | Checked ▪ EG
Date ▪ 22/12/17 | Scale ▪ 1 : 150 @ A1



3. RECONFIGURATION OF STAIRCORE B TO INCLUDE NEW STORAGE FOR CLEANING EQUIPMENT AND REFUGE POINT
1. NEW MID LIFT
NEW STAIR LIFT
2. NEW 5 STOREY LIFT TERMINATING @ LEVEL 05 (REFER TO LEVEL 01 FOR PROPOSED LIFT SPEC)
HOIST
STAIR B
11
12
10 DETECTOR & ELECTRONICS CONSTRUCTION
13 RESEARCH STUDENTS (2)
TECHNICIAN OFFICE
14 TARGET SYSTEMS
15 VACUUM EQUIPMENT CONSTRUCTION
09 RESEARCH OFFICE
04
08 RESEARCH OFFICE
16 DETECTOR TESTS
07 RESEARCH OFFICE
17 DATA COLLECTION SYSTEMS
06 PROFESSOR
05 COMMS ROOM
18 DETECTOR TESTS
STAIR A
01
419 Projects
421
422
03 FEMALE WC
03a
02a
02 RESEARCH STUDENTS
420B
420A
420
46.7m2
423
70m2
UNDER GRAD TEACHING
423A
423B
Teaching
424
425
422a
70 STAFF COMMON ROOM AND MUSEUM
STAIR C
71
Scoped area = 6m2
Scoped area = 4m2
66 RESEARCH STUDENTS
65 RESEARCH STUDENTS
64 RESEARCH ASSISTANTS
63 RESEARCH ASSISTANTS
62 RESEARCH ASSISTANTS
61 LECTURER
60 LECTURER
57
56 RESEARCH OFFICE
58
54
55 SENIOR LECTURER
53 SENIOR LECTURER
52 READER
51 STORE
50 STORE
49 STORE
59
67
C HILLER UNIT
C HILLER UNIT
27a RESEARCH OFFICE
27b RESEARCH OFFICE
27
STAIR D
45
42
VOID
VOID
VOID
47 STORE
37 WATER STORAGE TANKS
484 PRINT ROOM
483 LECTURER
482 PROFESSOR
481 LECTURER
480 PROFESSOR
26 STAIR E
472
472A
438
473 RESEARCH OFFICE
474 RESEARCH OFFICE
475 RESEARCH OFFICE
476 RESEARCH OFFICE
477 ADMINISTRATOR
478 PROFESSOR
479 SECRETARY
scale 1:150 (@ A1)

Note Fire Strategy requires to be reviewed in relation to the overall building fire strategy

Figured dimensions only to be taken from this drawing. All dimensions are to be checked on site before any work is put in hand. IF IN DOUBT ASK



KEYPLAN NTS

- Main Exit Doors
- FD60S Doors
- 60 min. FR walls

Revision			
03	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn : GR	Chk'd : RS	Date : 17.08.18	
02	Amended and re-issued for Stage 3		
Drawn : TD	Chk'd : RS	Date : 18.02.18	
01	updated for Stage 3 issue		
Drawn : RS	Chk'd : RS	Date : 14.02.18	

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Fire Strategy as Proposed
Level 04

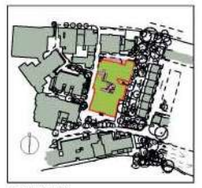
Project No.
P17-051

Drawing No.
KEP-KB-04-DR-A-2560-0110

Rev
03

Status
PLANNING

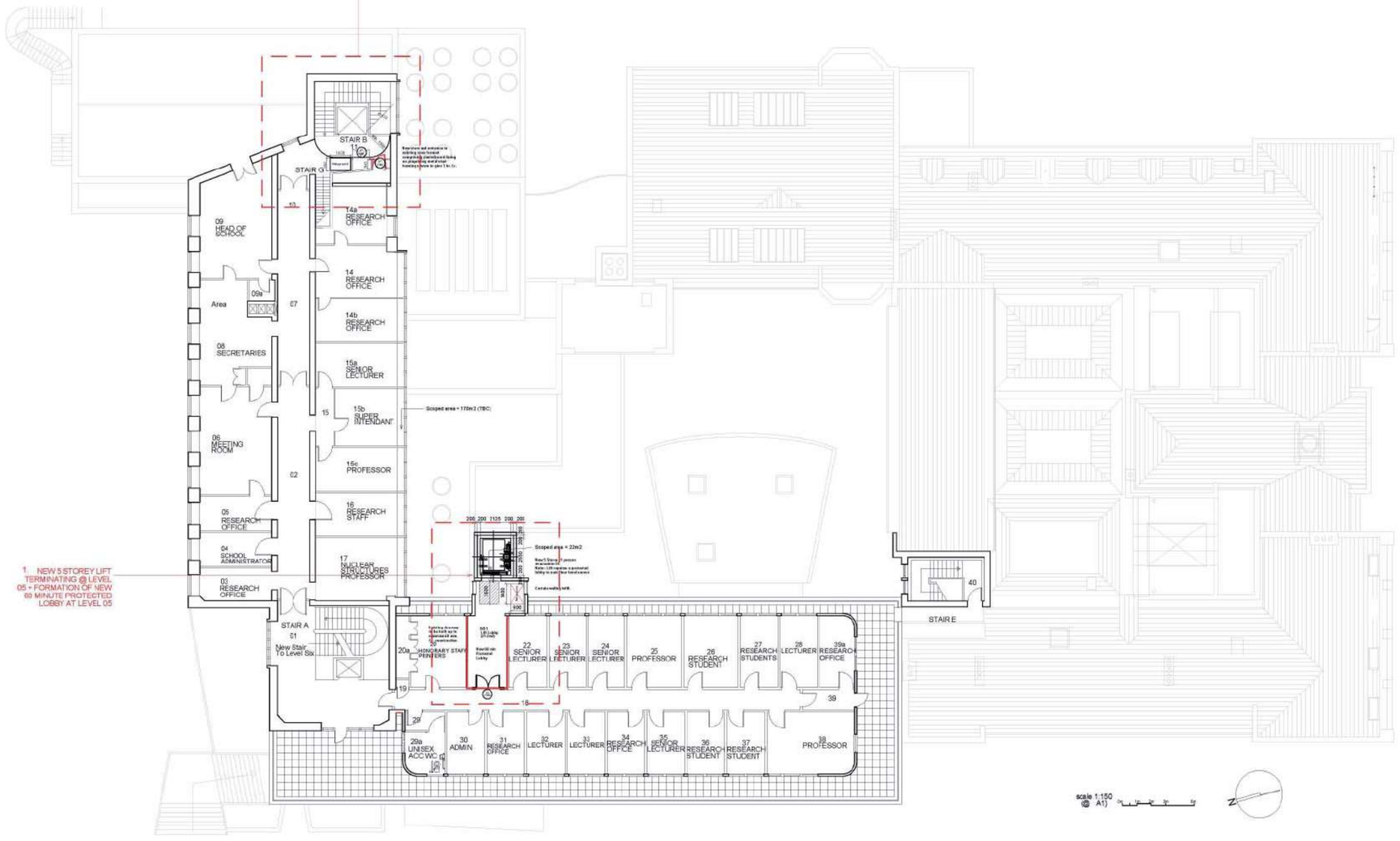
Created • LW
Checked • RS
Date • 22/12/17
Scale • 1:150 @ A1



KEYPLAN NTS

3 RECONFIGURATION OF STAIRCORE B TO INCLUDE NEW STORAGE FOR CLEANING EQUIPMENT AND REFUGE POINT

1 NEW 5 STOREY LIFT TERMINATING @ LEVEL 05 + FORMATION OF NEW 60 MINUTE PROTECTED LOBBY AT LEVEL 05



scale 1:150 @ A1)

Main Exit Doors

D** FD60 FD60S Doors

60 min. FR walls

Note Fire Strategy requires to be reviewed in relation to the overall building fire strategy

Revision			
03	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn: DB	Chk'd: DG	Date: 17.02.15	
Revision			
02	Amended and re-issued for Stage 3		
Drawn: TD	Chk'd: DG	Date: 10.02.15	
Revision			
01	updated for Stage 3 issue		
Drawn: DG	Chk'd: DG	Date: 14.02.14	

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Fire Strategy as Proposed
Level 05

Project No
P17-001

Drawing No
KEP-KB-05-DR-A-2560-0110

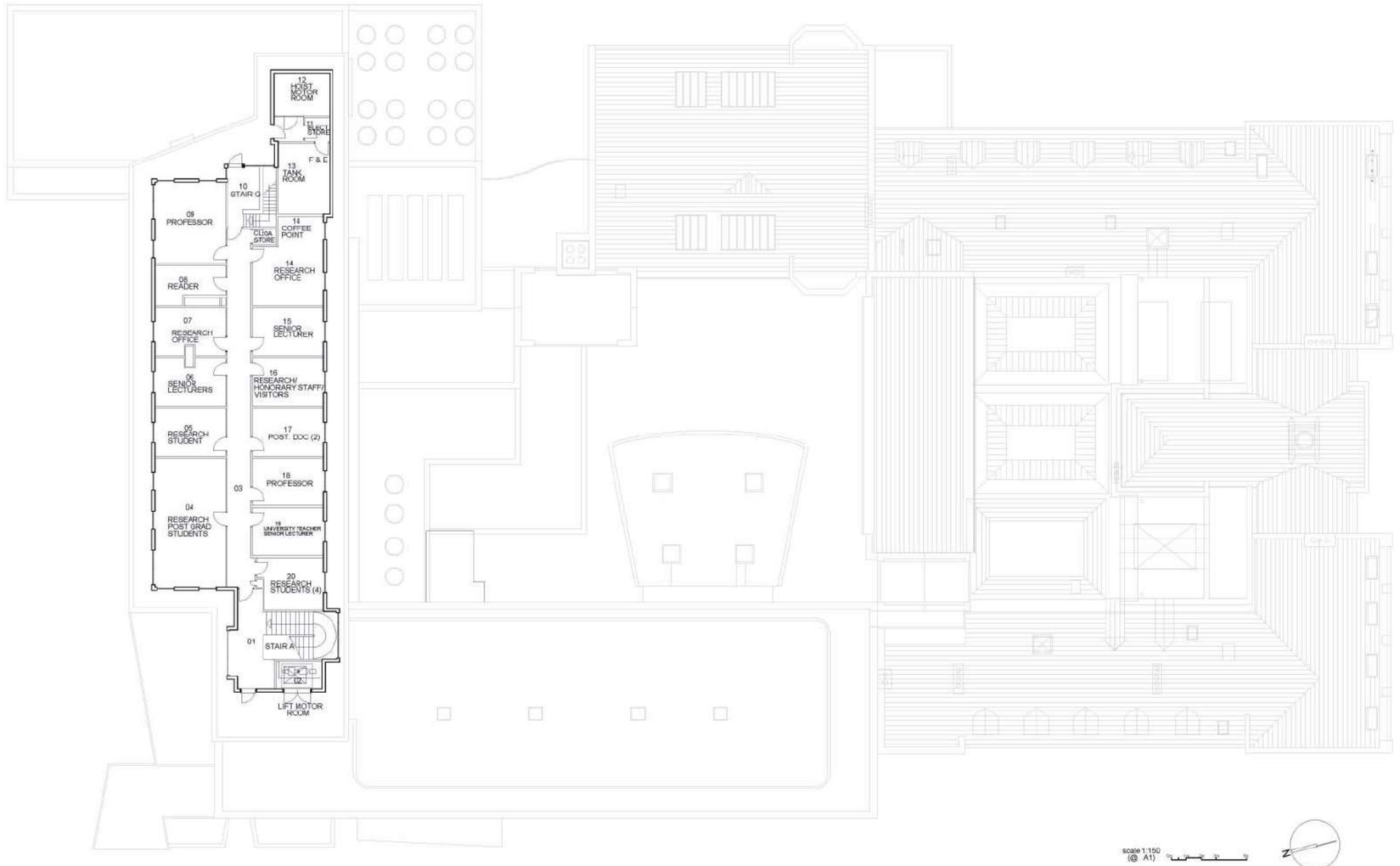
Rev
03

Status
PLANNING

Checked LW Checked PG
Date 24.01.17 Scale 1 : 150 @ A1

KEYPLAN NTS

Main Exit Doors



scale 1:150 (@ A1)

Note Fire Strategy requires to be reviewed in relation to the overall building fire strategy

Revision			
03	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn - GW	Chk'd - BG	Date - 17.05.18	
Revision			
02	Amended and re-issued for Stage 3		
Drawn - BG	Chk'd - BG	Date - 19.02.18	
Revision			
01	updated for Stage 3 issue		
Drawn - BG	Chk'd - BG	Date - 14.02.18	

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Fire Strategy as Proposed
Level 06

Project No
P17-051

Drawing No — Rev
KEP-KB-06-DR-A-2560-0110 — 03

Status
PLANNING

Created • GW — Checked • BG
Date • 23/12/17 — Scale • 1:150 @ A1

4.6 General Internal Adjustments

4.6.1 WC Improvements

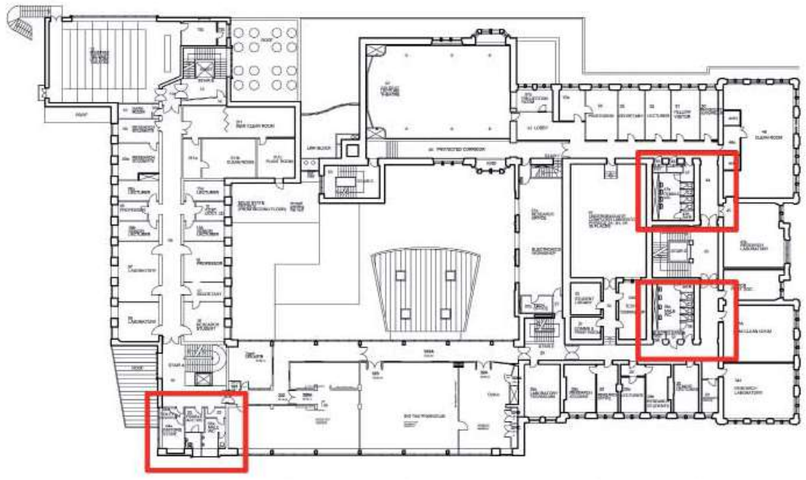
Important works to include the formation of accessible wc's.

Existing WC blocks have been reviewed throughout the building to understand which blocks could be reconfigured to provide DDAaccessible wc's in line with current legislation.

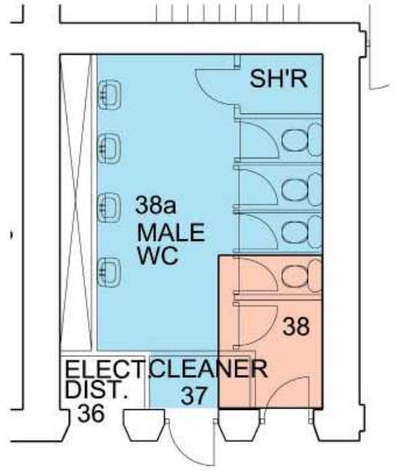
Key works:

- Reconfiguration of selected existing male / female WC blocks per floor to allow for accessible WC / changing / shower rooms where appropriate
- 2 Forming accessible wc's where relevant, to meet requirements of current legislation.

Existing / historic

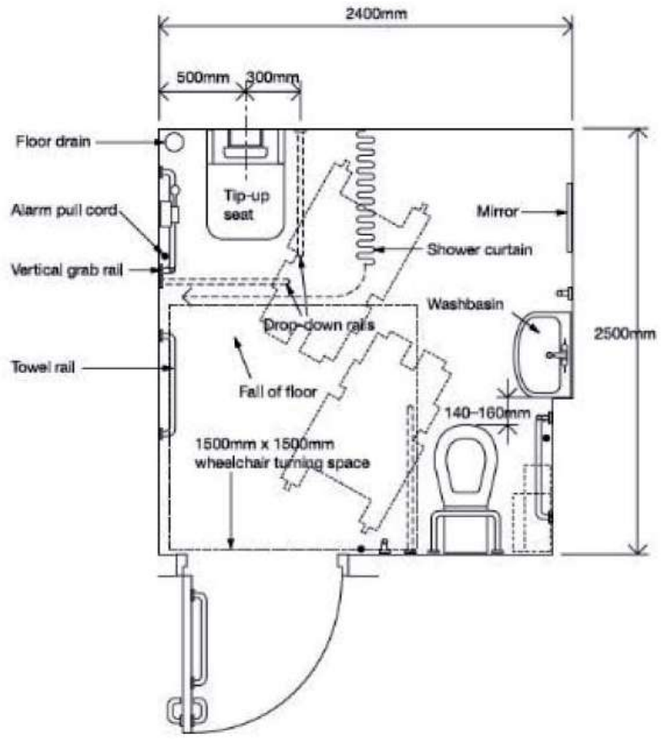


Example of existing wc blocks (level 3) – targeted as part of the DDA exercise



Typical wc block highlighting potential reconfiguration to allow for accessible wc,(note this would apply to all floors)

Example of existing accessible wc within the building



Standard BS 8300 accessible wc

4.0 Appendix

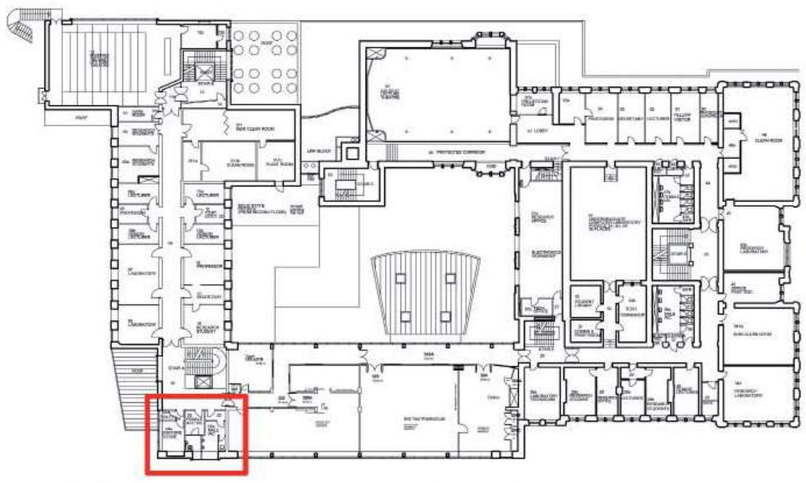
4.6 General Internal Adjustments

4.6.2 Creation of Nursing Area (Level 03)

Important works to include the formation of accessible wc's.

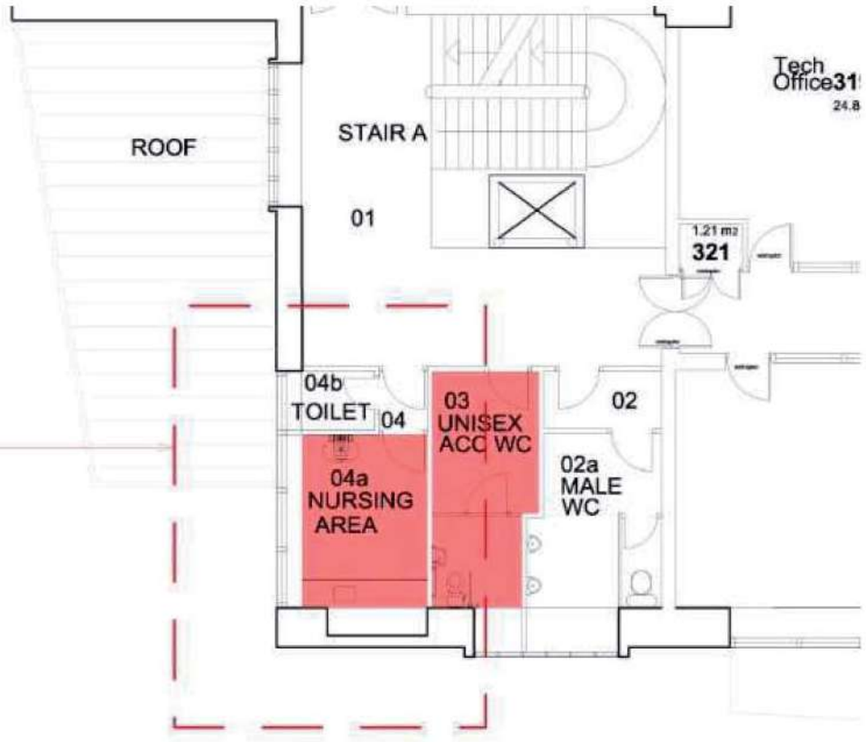
Reconfiguration of the existing Janitors store on level 03 to form a Nursing room/ Unisex toilet.

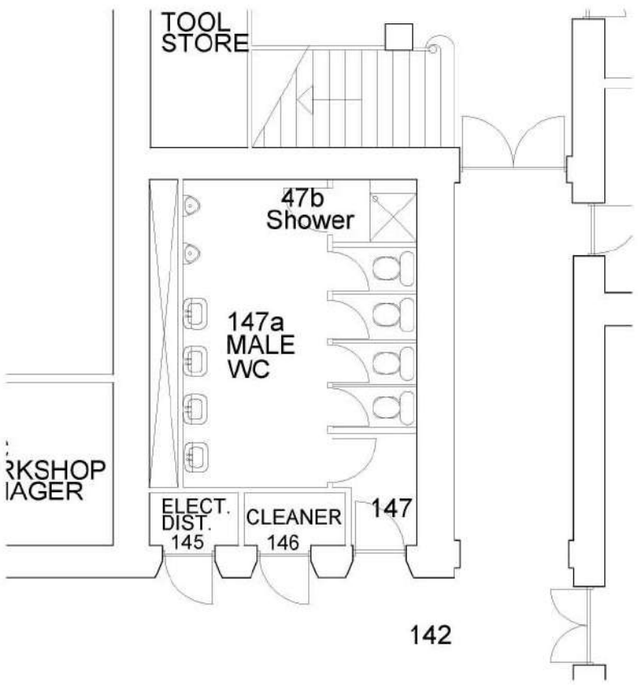
Existing / historic



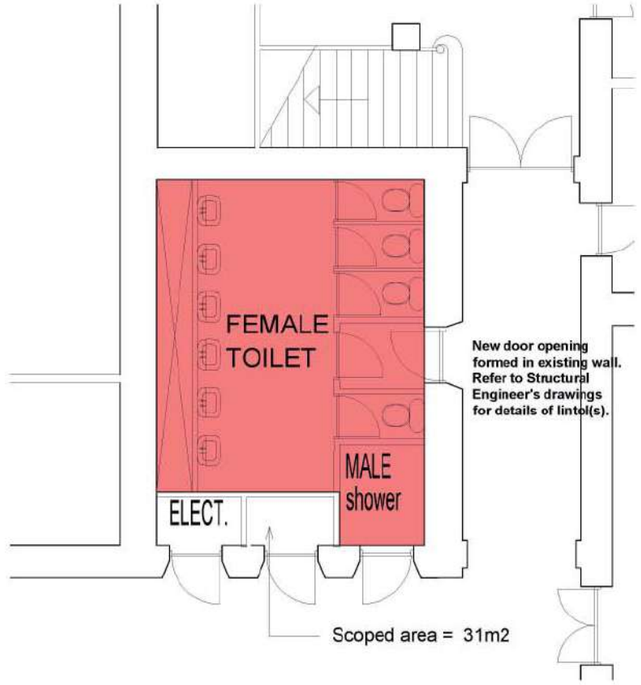
Existing janitors store (level 3) – targeted as part of the new Nursing area

RECONFIGURATION OF JANITOR STORE AND TOILET TO CREATE A NURSING AREA AND UNISEX TOILET





Level 01_Toilets as Existing



Level 01_Toilets as Proposed

WC adjustments:

General:- Existing WC block to be reconfigured from Male to Female to meet required numbers.
Separate Male shower to be formed.

1. Existing urinals, wc's and shower to be stripped out and fitments retained for re-use if possible.

2. New entrance door opening to be formed in existing wall. Refer to Structural Engineer's drawings and specification for details of lintols. New door/ironmongery to match existing.

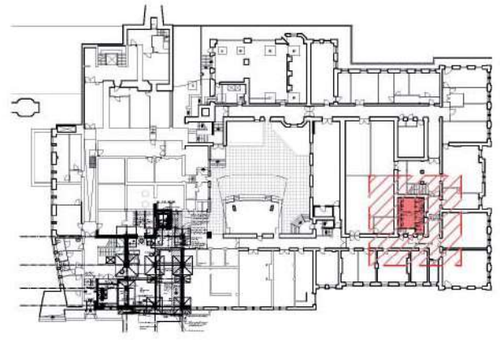
3. New partitions to form lobby and Male Shower room comprising moisture resistant plasterboard either side of proprietary metal stud framing system. New door and associated ironmongery to Male Shower room to match existing.

4. Existing ceiling to be removed and replaced with new moisture resistant tiles (600 x 600mm) with integrated lighting and services - refer to MEP Engineer's drawings and specification for details of services.

5. Existing flooring to be removed and replaced with new anti-slip vinyl sheet flooring with coved skirting (PTV 36+ wet).

6. New laminate wc cubicles to be installed.

7. New wc's and whb's to be installed (existing fitments to be re-used where possible. New shower to be installed including all associated plumbing/drainage.



Location Key (1:500)

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn: GB Chk'd: MS Date: 17.07.18
Revision
01 Drawing updated for Stage 3 issue
Drawn: TD Chk'd: RS Date: 17.07.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

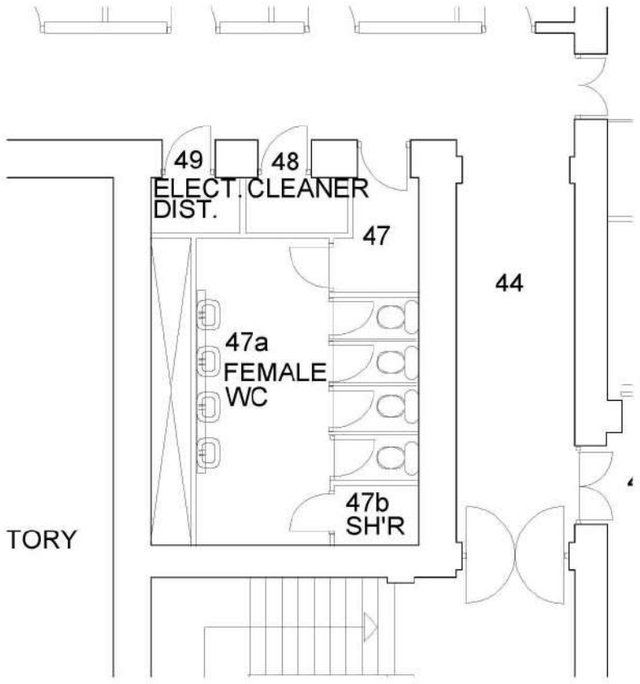
Drawing
Toilet Layout Level 01
As Existing and Proposed

Project No
P17-051

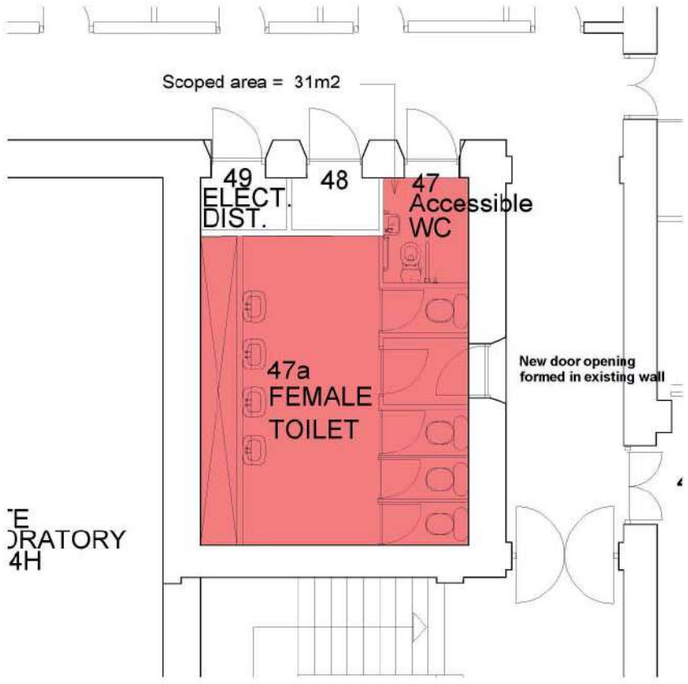
Drawing No | Rev
KEP-KB-01-DR-A-4015-0111 | 02

Status
PLANNING

Created TD Checked RS
Date 17/07/18 Scale 1 : 50 @ A1



Level 03_Toilets as Existing



Level 03_Toilets as Proposed

WC adjustments:

General :- Existing WC block to be reconfigured to include accessible WC to meet current legislation (Equality Act).

1. Existing wc's and whb's to be stripped out and fitments retained for re-use if possible.

2. New entrance door opening to be formed in existing wall. Refer to Structural Engineer's drawings and specificaton for details of lintols. New door/ironmongery to match exsting.

3. Existing door opening built up to form part of new Accessible WC enclosure.

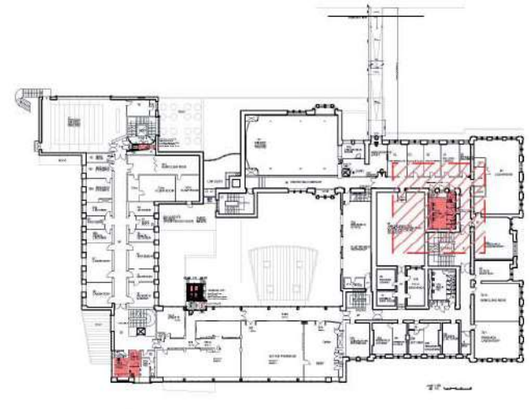
4. New partitions to form lobby and Accessible WC comprising moisture resistant plasterboard either side of proprietary metal stud framing system. Allow for 12mm WBP ply patressing within partition for fitting of grab rails etc. New door and associated ironmongery to Accessible WC to match existing.

5. Existing ceiling to be removed and replaced with new moisture resistant tiles (600 x 600mm) with integrated lighting and services - refer to MEP Engineer's drawings and specification for details of services.

6. Existing flooring to be removed and replaced with new anti-slip vinyl sheet flooring with covec skirting (PTV 36+ vet).

7. New laminate wc cubicles to be installed.

8. New wc's and whb's to be installed (existing fitments to be re-used where possible. New Doc. M pack to be installed including all associated plumbing/drainage.



Location Key (1:500)

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn: PS Chk'd: RK Date: 17.05.18
Revision
01 Updated for Stage 3 issue
Drawn: TD Chk'd: PS Date: 15.03.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

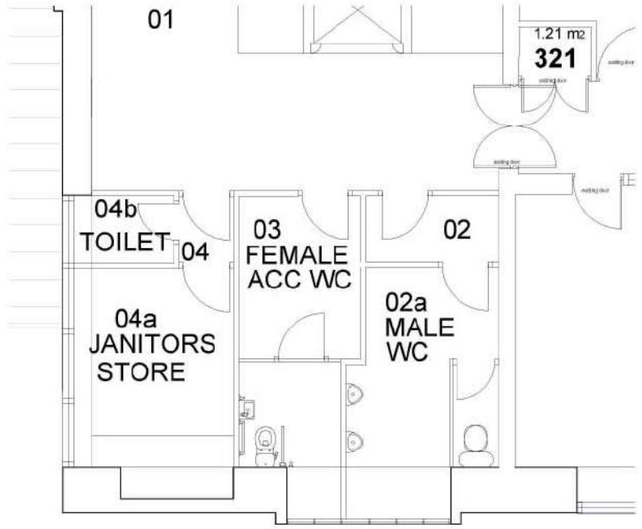
Drawing
Toilet Layout Level 03
As Existing and Proposed

Project No
P17-051

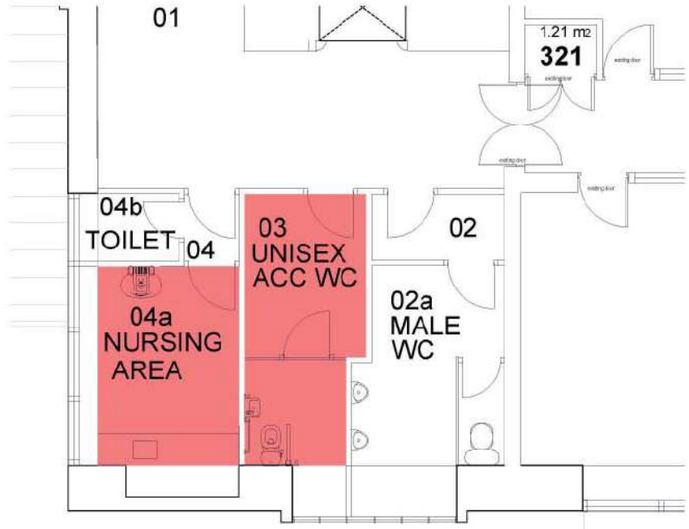
Drawing No
KEP-KB-03-DR-A-4015-0112
Rev
02

Status
PLANNING

Created TD Checked RK
Date 15/03/18 Scale @ A1



Level 03_Toilets as Existing



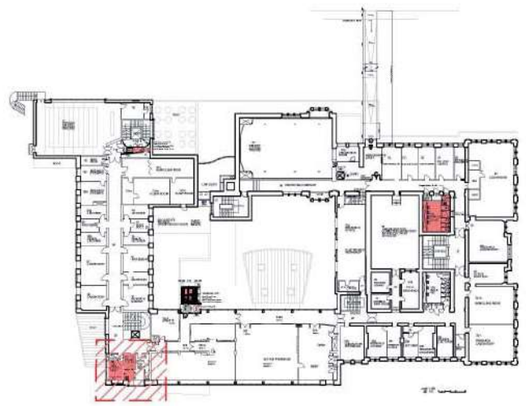
Level 03_Toilets/Nursing Area
as Proposed

Adjustments:

General - Existing Janitor's Store to become new Nursing area and Female Accessible toilet to become new Unisex accessible toilet.

1. Existing floor covering to Janitor's Store to be removed and replaced with new anti-slip vinyl sheet flooring (PTV 36+ wet).

2. Equipment within new Nursing area t.b.c. Allow for Baby Changing drop-down bench facility and worktop, sink and base units.



Location Key (1:500)

Revision
02 ISSUED FOR DETAILED PLANNING AND LBC
Drawn PG Check RS Date 17.09.18
Revision
01 Updated for Stage 3 issue
Drawn TD Check RS Date 15.03.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Toilet/Nursing Area Layout Level 03
As Existing and Proposed

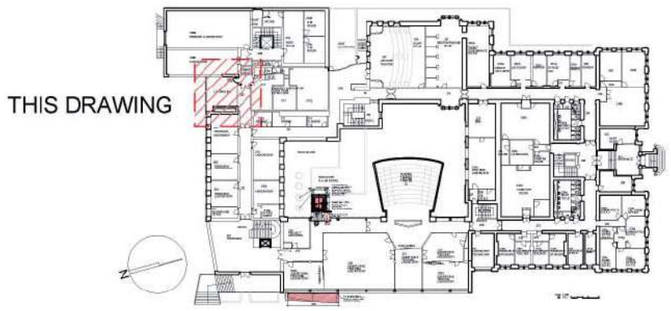
Project no
P17-051

Drawing No. Rev.
KEP-KB-03-DR-A-4015-0113 02

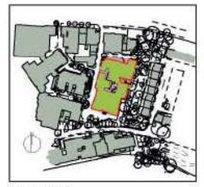
Status
PLANNING

Created TD Checked RS
Date 13/02/18 Scale 1 : 50 @ A1

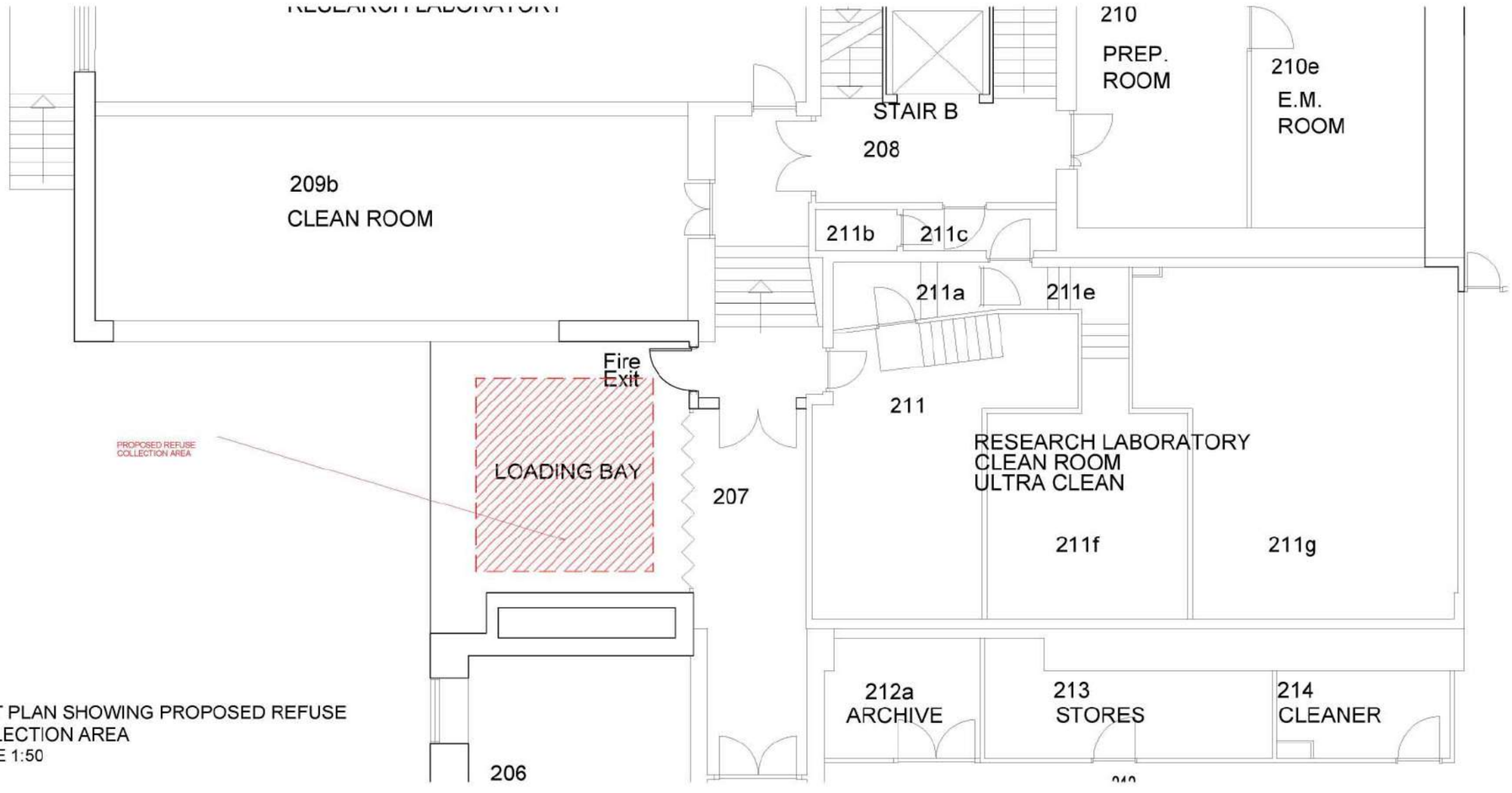
4.7 Bin Store



KEYPLAN 1:500



KEYPLAN NTS



PART PLAN SHOWING PROPOSED REFUSE COLLECTION AREA
SCALE 1:50

Revision
01 ISSUED FOR DETAILED PLANNING AND LBC
Drawn - PG Chk'd BG Date - 17.08.18

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Proposed Refuse Collection Area
Level 02

Project No
P17-051

Drawing No
KEP-KB-02-DR-A-4050-0110

Rev
01

Status
PLANNING

Created - HDD Checked - BG
Date - 25/7/17 Scale - 1:100 @ A1

4.8 Visuals

Glasgow University Kelvin Building Option 01 Black Anodised

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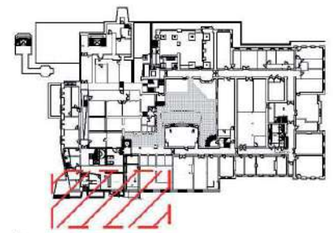

Location Key (NTS)

Revision			
03	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn : GR	Chk'd : RS	Date : 17.08.18	
Revision			
02	Issued for Planning		
Drawn : GR	Chk'd : RS	Date : 24.04.18	
Revision			
01	updated for Stage 3 Issue		
Drawn : LW	Chk'd : RS	Date : 14.02.18	

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Main Entrance Visual Proposed

Project No.
P17-051

Drawing No. KEP-KB-XX-DR-A-7005-0111 Rev. 03

Status
PLANNING

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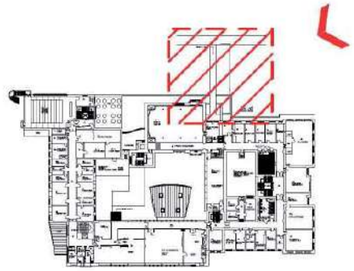
Date	• 25/7/17	Scale	• NA



Location Key (NTS)

Revision			
02	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn : GR	Chk'd : RS	Date : 17.08.18	
Revision			
01	updated for Stage 3 Issue		
Drawn : RS	Chk'd : RS	Date : 14.02.18	

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Client
UNIVERSITY OF GLASGOW

Project
KELVIN BUILDING
PHASE 1 WORKS

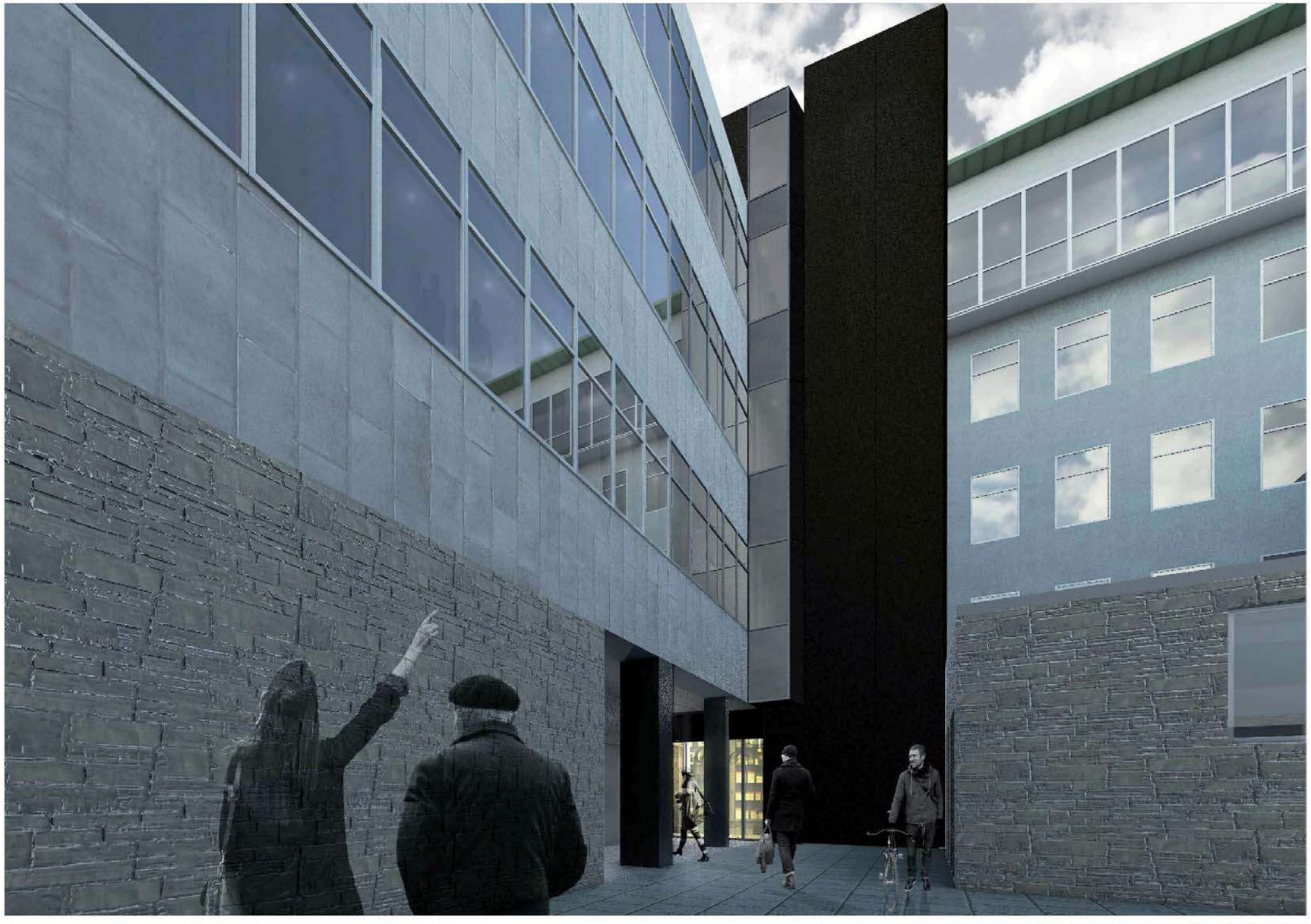
Drawing
Lightweight Link bridge Visual

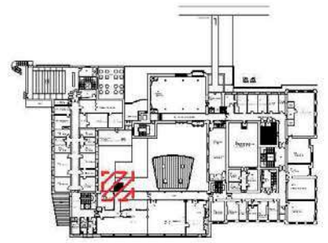
Project No.
P17-051

Drawing No. | Rev.
KEP-KB-XX-DR-A-7005-0211 | 02

Status
PLANNING

Created	•	LW	Checked	•	RS
Date	•	25/7/17	Scale	•	NA





Location Key (NTS)

Revision			
04	ISSUED FOR DETAILED PLANNING AND LBC		
Drawn : GR	Chk'd : RS	Date : 17.08.18	
03	Issued for Planning		
Drawn : GR	Chk'd : RS	Date : 20.04.18	
02	amended and re-issued for Stage 3		
Drawn : RS	Chk'd : RS	Date : 16.02.18	
01	updated for Stage 3 Issue		
Drawn : RS	Chk'd : RS	Date : 14.02.18	

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Project
KELVIN BUILDING
PHASE 1 WORKS

Drawing
Internal Courtyard Main Lift Visual

Project No.
P17-051

Drawing No. KEP-KB-XX-DR-A-7005-0411 Rev. 04

Status
PLANNING

Created • LW Checked • RS
Date • 25/7/17 Scale • NA

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drawing issue

Kelvin Building

Proposed Dwgs

Job No. P17-051

Phase 1 works

DRAWING TITLE	SCALE	DRAWING NO.	DATE OF ISSUE: DAY	MONTH	YEAR	PURPOSE OF ISSUE: PRELIMINARY	FOR INFORMATION	PLANNING	BUILDING WARRANT	STAGE 3	TENDER	CONSTRUCTION
			21	16	19	20	25	29	11	01	03	22
			03	04	04	04	05	06	07	08	08	08
			18	18	18	18	18	18	18	18	18	18
			X									
												X
				X	X	X	X	X	X	X	X	
Location Plan	1250	KEP-KB-DR-A-0090-0001					-		-			01
Floor Plan as Existing (level 01)	150	KEP-KB-01-DR-A-7060-0010					-		-			01
Floor Plan as Existing (level 01) - Door Replacement	150	KEP-KB-01-DR-A-7060-0011										01
Floor Plan as Proposed (level 01)	150	KEP-KB-01-DR-A-7060-0110	08	09	10	10	10	11	11		12	13
Floor Plan as Existing (level 02)	150	KEP-KB-02-DR-A-7060-0010					01		01			02
Floor Plan as Existing (level 02) - Door Replacement	150	KEP-KB-02-DR-A-7060-0011										01
Floor Plan as Proposed (level 02)	150	KEP-KB-02-DR-A-7060-0110		07	08	08	08		08	09		10
Floor Plan as Existing (level 03)	150	KEP-KB-03-DR-A-7060-0010					-		-			01
Floor Plan as Existing (level 03) - Door Replacement	150	KEP-KB-03-DR-A-7060-0011										01
Floor Plan as Proposed (level 03)	150	KEP-KB-03-DR-A-7060-0110	07	08	09	09	09		09			12
Floor Plan as Existing (level 04)	150	KEP-KB-04-DR-A-7060-0010					01		01			02
Floor Plan as Existing (level 04) - Door Replacement	150	KEP-KB-04-DR-A-7060-0011										01
Floor Plan as Proposed (level 04)	150	KEP-KB-04-DR-A-7060-0110		07	08	08	08		08			10
Floor Plan as Existing (level 05)	150	KEP-KB-05-DR-A-7060-0010					-		-			01
Floor Plan as Existing (level 05) - Door Replacement	150	KEP-KB-05-DR-A-7060-0011										01
Floor Plan as Proposed (level 05)	150	KEP-KB-05-DR-A-7060-0110		07	08	08	08		08			10
Floor Plan as Existing (level 06)	150	KEP-KB-06-DR-A-7060-0010					-		-			02
Floor Plan as Existing (level 06) - Door Replacement	150	KEP-KB-06-DR-A-7060-0011										01
Floor Plan as Proposed (level 06)	150	KEP-KB-06-DR-A-7060-0110					03		03			05
Zone 01 - Entrance Area As Proposed	50	KEP-KB-XX-DR-A-7060-0111										
Zone 02 - Bridge Link As Proposed	50	KEP-KB-XX-DR-A-7060-0211										
Zone 03 - Loading bay As Proposed	50	KEP-KB-XX-DR-A-7060-0311										
Zone 04 - Stair core B As Proposed	50	KEP-KB-XX-DR-A-7060-0411										
Zone 01 - Reflected Ceiling Plan as Proposed	100	KEP-KB-XX-DR-A-3025-0111					04		04			
Zone 02 - Reflected Ceiling Plan as Proposed	100	KEP-KB-XX-DR-A-3025-0211		03			03		03			
Zone 03 - Reflected Ceiling Plan as Proposed	100	KEP-KB-XX-DR-A-3025-0311					03		03			
Zone 04 - Reflected Ceiling Plan as Proposed	100	KEP-KB-XX-DR-A-3025-0411					02		02			
Level 03 Nursing Area Reflected Ceiling Plan as Proposed	100	KEP-KB-XX-DR-A-3025-0611					01		01			
Toilet Layout Level 03 Reflected Ceiling Plan as Proposed	50	KEP-KB-03-DR-A-3025-0711					01		01			
Toilet Layout Level 01 Reflected Ceiling Plan as Proposed	50	KEP-KB-01-DR-A-3025-0811					01		01			
Zone 01 - Floor Finishes Plan as Proposed	100	KEP-KB-XX-DR-A-3042-0111					02		02			
Zone 02 - Floor Finishes Plan as Proposed	100	KEP-KB-XX-DR-A-3042-0211		03			02		02			
Zone 03 - Floor Finishes Plan as Proposed	100	KEP-KB-XX-DR-A-3042-0311					02		02			
Zone 04 - Floor Finishes Plan as Proposed	100	KEP-KB-XX-DR-A-3042-0411					01		01			
Toilet Layout Level 03 Floor Finishes as Proposed	50	KEP-KB-03-DR-A-3042-0511					01		01			
Toilet Layout Level 01 Floor Finishes as Proposed	50	KEP-KB-01-DR-A-3042-0611					01		01			
Toilet Layout Level 01 as Existing and Proposed	50	KEP-KB-01-DR-A-4015-0111					01		01			02
Toilet Layout Level 03 as Existing and Proposed	50	KEP-KB-03-DR-A-4015-0112					01		01			02
Toilet/Nursing Area Layout Level 03 as Existing and Proposed	50	KEP-KB-03-DR-A-4015-0113					01		01			02
North Elevation as Existing	100	KEP-KB-XX-DR-A-7030-0010					01	02	02			03
North Elevation as Proposed	100	KEP-KB-XX-DR-A-7030-0110	01				01	02	02			04
East Elevation as Existing	100	KEP-KB-XX-DR-A-7030-0011					01		01			02
East Elevation as Proposed - Bridge Link to Level 03	100	KEP-KB-XX-DR-A-7030-0111	03				03		03			
West Elevation as Existing	100	KEP-KB-XX-DR-A-7030-0012					01		01			02
West Elevation as Proposed - New Entrance and Lobby	100	KEP-KB-XX-DR-A-7030-0112	02				02		02			03
South Elevation as Existing	100	KEP-KB-XX-DR-A-7030-0013					01		01			02
South Elevation as Proposed - New Internal Courtyard Lift	100	KEP-KB-XX-DR-A-7030-0113					01		01			
Downtakings as Proposed (level 01)	100	KEP-KB-01-DR-A-1010-0110					02		02			03
Downtakings as Proposed (level 02)	100	KEP-KB-02-DR-A-1010-0110										03
Downtakings as Proposed (level 03)	100	KEP-KB-03-DR-A-1010-0110		03								05
Downtakings as Proposed (level 04)	100	KEP-KB-04-DR-A-1010-0110										04
Downtakings as Proposed (level 05)	100	KEP-KB-05-DR-A-1010-0110										04
Downtakings as Proposed (level 06)	100	KEP-KB-06-DR-A-1010-0110										
Zone 01 - Entrance as Existing	100	KEP-KB-XX-DR-A-4040-0101										02
Zone 02 - Bridge Link as Existing	100	KEP-KB-XX-DR-A-4040-0201										02
Zone 03 - Loading bay as Existing	100	KEP-KB-XX-DR-A-4040-0301										
Zone 04 - Stair core B as Existing	100	KEP-KB-XX-DR-A-4040-0401										01
Zone 05 - Stair core G as Existing	100	KEP-KB-XX-DR-A-4040-0501										
Sections A/B as Existing	100	KEP-KB-XX-DR-A-7080-0010										
Sections A/B as Proposed	100	KEP-KB-XX-DR-A-7080-0110	05	06	07	07	07	08	08			09
Sections C as Existing	100	KEP-KB-XX-DR-A-7080-0011										02
Sections C as Proposed	100	KEP-KB-XX-DR-A-7080-0111										04
Sections D as Existing	100	KEP-KB-XX-DR-A-7080-0012										
Sections D as Proposed	100	KEP-KB-XX-DR-A-7080-0112										04
Sections E as Existing	100	KEP-KB-XX-DR-A-7080-0013										02
Sections E as Proposed	100	KEP-KB-XX-DR-A-7080-0113										04
Sections F as Existing	100	KEP-KB-XX-DR-A-7080-0014										
Main Entrance Visual Proposed	NA	KEP-KB-XX-DR-A-7005-0111	01									03
Lightweight Link bridge Visual	NA	KEP-KB-XX-DR-A-7005-0211	01									02
Internal Courtyard Main Lift Visual	NA	KEP-KB-XX-DR-A-7005-0411	02									04
Zone 02 - Level 03 and 04 Plan as proposed	100	KEP-KB-XX-DR-A-8050-0111										03
Level 04 Stairlift Plans as Proposed	50	KEP-KB-04-DR-A-8050-0112										03
Fire Strategy As Proposed (Level 01)	150	KEP-KB-01-DR-A-2560-0110										
Fire Strategy As Proposed (Level 02)	150	KEP-KB-02-DR-A-2560-0110										
Fire Strategy As Proposed (Level 03)	150	KEP-KB-03-DR-A-2560-0110		03								
Fire Strategy As Proposed (Level 04)	150	KEP-KB-04-DR-A-2560-0110										
Fire Strategy As Proposed (Level 05)	150	KEP-KB-05-DR-A-2560-0110										
Fire Strategy As Proposed (Level 06)	150	KEP-KB-06-DR-A-2560-0110										
Internal Door Schedule		S(32)X_001										01
Finishes Schedule		S(40)X_001										
Sanitaryware Schedule		S(74)X_100										
Design and Access Statement of 8	NA	KEP-KB-XX-RP-A-9075-0010										01
Building Warrant Notes	A4	KEP-KB-06-SH-A-0020-0101										
Tender Specification Notes	A4	KEP-KB-06-SH-A-0020-0102										
Contractor Design Portion Tender Specification	A4	KEP-KB-06-SH-A-0020-0103										
Room data sheets	A4											

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