



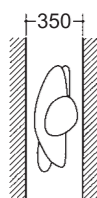
AIR STUDIOS, LYNDHURST HALL, LONDON

**STAIR OPTIONS**

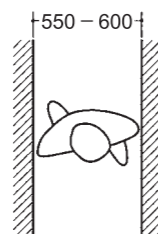
NOVEMBER 2019

# STAIR OPTIONS - SPACE REQUIREMENTS

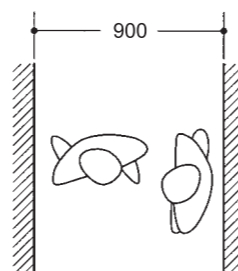
## 2-14 Basic design data: people and space



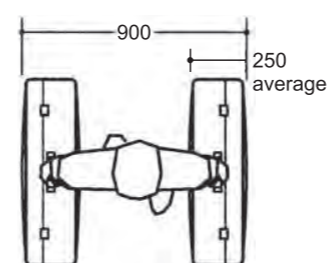
**a** Edging width: suitable for short distances or occasional use



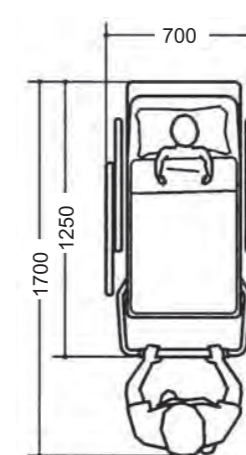
**b** One person width (750 clearance would give comfort for various postures)



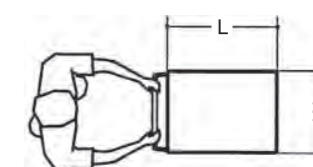
**c** Normally used by one person, but occasional passing required



**2.41** Person with baggage

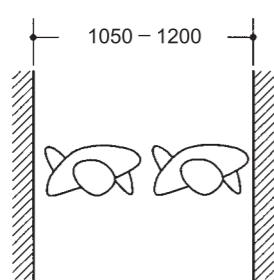


**2.44** Person with pram

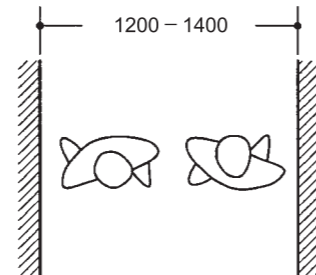


Type	L	W
Food (small)	600	450
Railway	1850	1100
Baggage (airport, hotel, etc.)	2500	800

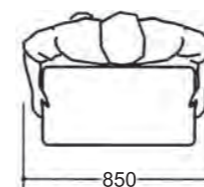
**2.46** Person with trolley



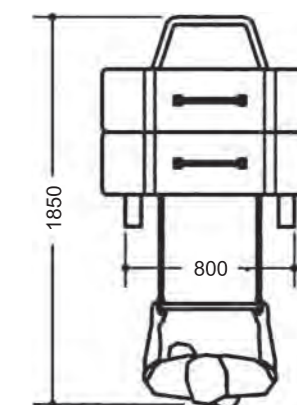
**d** Two-person use in same direction



**e** Two people passing

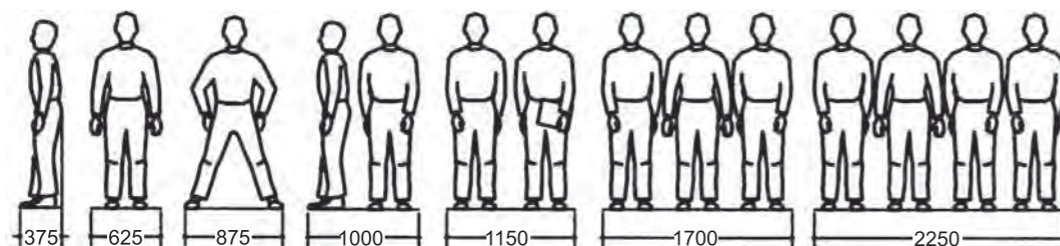


**2.42** Person with tray

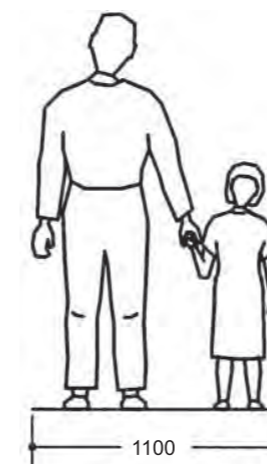


**2.47** Person with luggage trolley

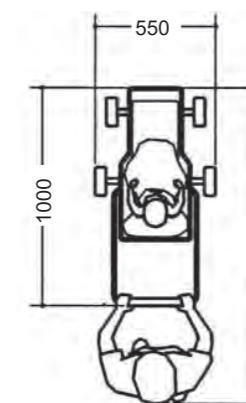
## 2.35 Corridor widths



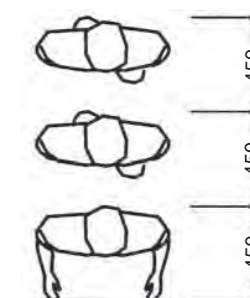
**2.36** Space requirements between walls allowing 10 per cent for easy movement



**2.43** Person with small child



**2.45** Person with pushchair



**2.48** Single queue no baggage

# STAIR OPTIONS - EXISTING FIRST FLOOR PLAN

## STAIR REQUIREMENTS:

CLIENT REQUIREMENT: 2 PEOPLE NEED TO BE ABLE TO PASS EACH OTHER ON THE STAIRS.

IN ORDER FOR 2 PEOPLE TO PASS EACH OTHER MOVING IN THE OPPOSITE DIRECTION A MIN. WIDTH OF 1200MM IS REQUIRED.

## TO COMPLY WITH BUILDING REGULATIONS:

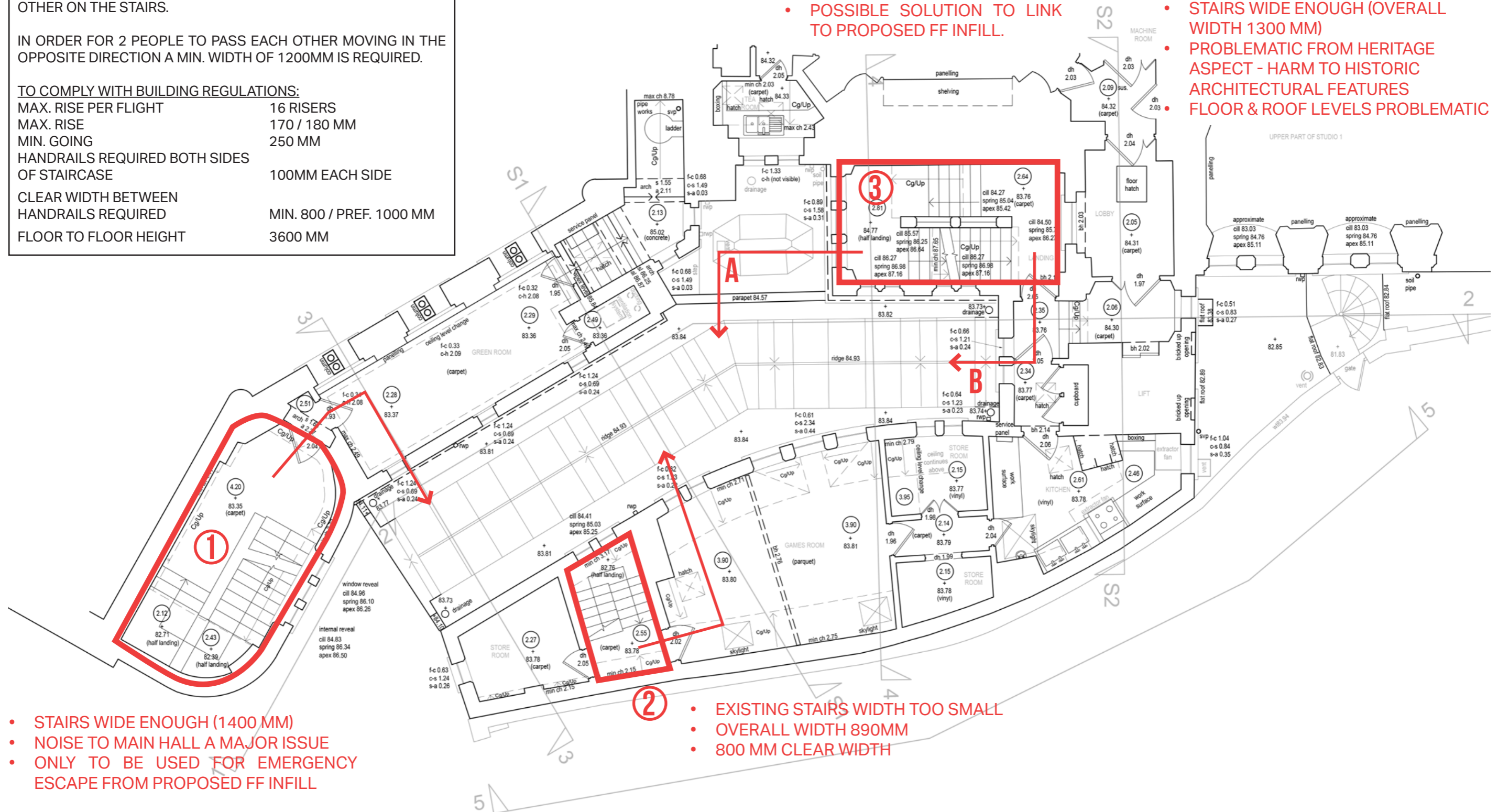
MAX. RISE PER FLIGHT	16 RISERS
MAX. RISE	170 / 180 MM
MIN. GOING	250 MM
HANDRAILS REQUIRED BOTH SIDES OF STAIRCASE	100MM EACH SIDE
CLEAR WIDTH BETWEEN HANDRAILS REQUIRED	MIN. 800 / PREF. 1000 MM
FLOOR TO FLOOR HEIGHT	3600 MM

## STAIRS 3 LINK OPTION A

- EXISTING STAIRS WIDE ENOUGH (OVERALL WIDTH 1300 MM)
- POSSIBLE SOLUTION TO LINK TO PROPOSED FF INFILL.

## STAIRS 3 LINK OPTION B

- STAIRS WIDE ENOUGH (OVERALL WIDTH 1300 MM)
- PROBLEMATIC FROM HERITAGE ASPECT - HARM TO HISTORIC ARCHITECTURAL FEATURES
- FLOOR & ROOF LEVELS PROBLEMATIC



- STAIRS WIDE ENOUGH (1400 MM)
- NOISE TO MAIN HALL A MAJOR ISSUE
- ONLY TO BE USED FOR EMERGENCY ESCAPE FROM PROPOSED FF INFILL

- EXISTING STAIRS WIDTH TOO SMALL
- OVERALL WIDTH 890MM
- 800 MM CLEAR WIDTH

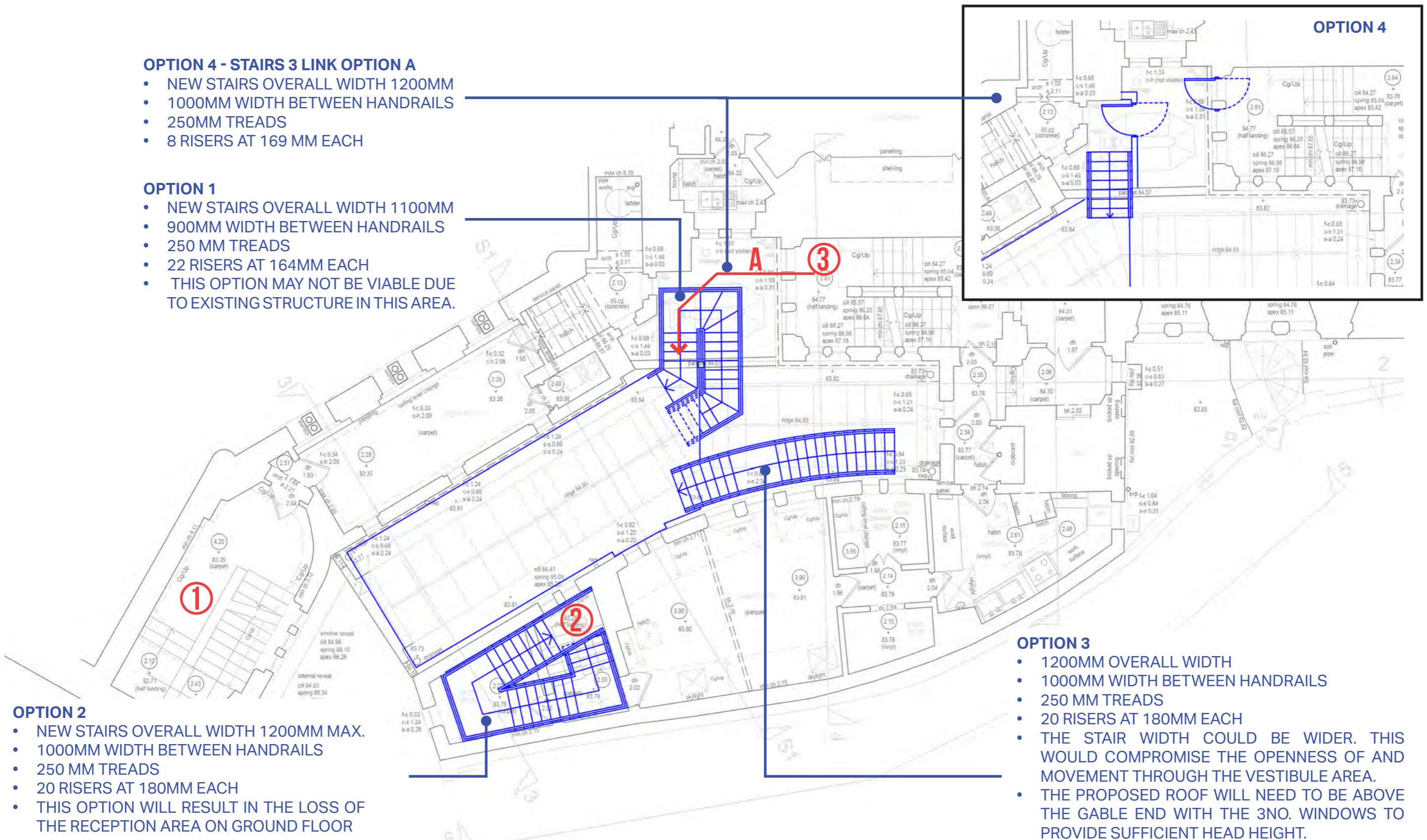
# PROPOSED STAIR OPTIONS

## OPTION 4 - STAIRS 3 LINK OPTION A

- NEW STAIRS OVERALL WIDTH 1200MM
- 1000MM WIDTH BETWEEN HANDRAILS
- 250MM TREADS
- 8 RISERS AT 169 MM EACH

## OPTION 1

- NEW STAIRS OVERALL WIDTH 1100MM
- 900MM WIDTH BETWEEN HANDRAILS
- 250 MM TREADS
- 22 RISERS AT 164MM EACH
- THIS OPTION MAY NOT BE VIABLE DUE TO EXISTING STRUCTURE IN THIS AREA.



## OPTION 2

- NEW STAIRS OVERALL WIDTH 1200MM MAX.
- 1000MM WIDTH BETWEEN HANDRAILS
- 250 MM TREADS
- 20 RISERS AT 180MM EACH
- THIS OPTION WILL RESULT IN THE LOSS OF THE RECEPTION AREA ON GROUND FLOOR

## OPTION 3

- 1200MM OVERALL WIDTH
- 1000MM WIDTH BETWEEN HANDRAILS
- 250 MM TREADS
- 20 RISERS AT 180MM EACH
- THE STAIR WIDTH COULD BE WIDER. THIS WOULD COMPROMISE THE OPENNESS OF AND MOVEMENT THROUGH THE VESTIBULE AREA.
- THE PROPOSED ROOF WILL NEED TO BE ABOVE THE GABLE END WITH THE 3NO. WINDOWS TO PROVIDE SUFFICIENT HEAD HEIGHT.



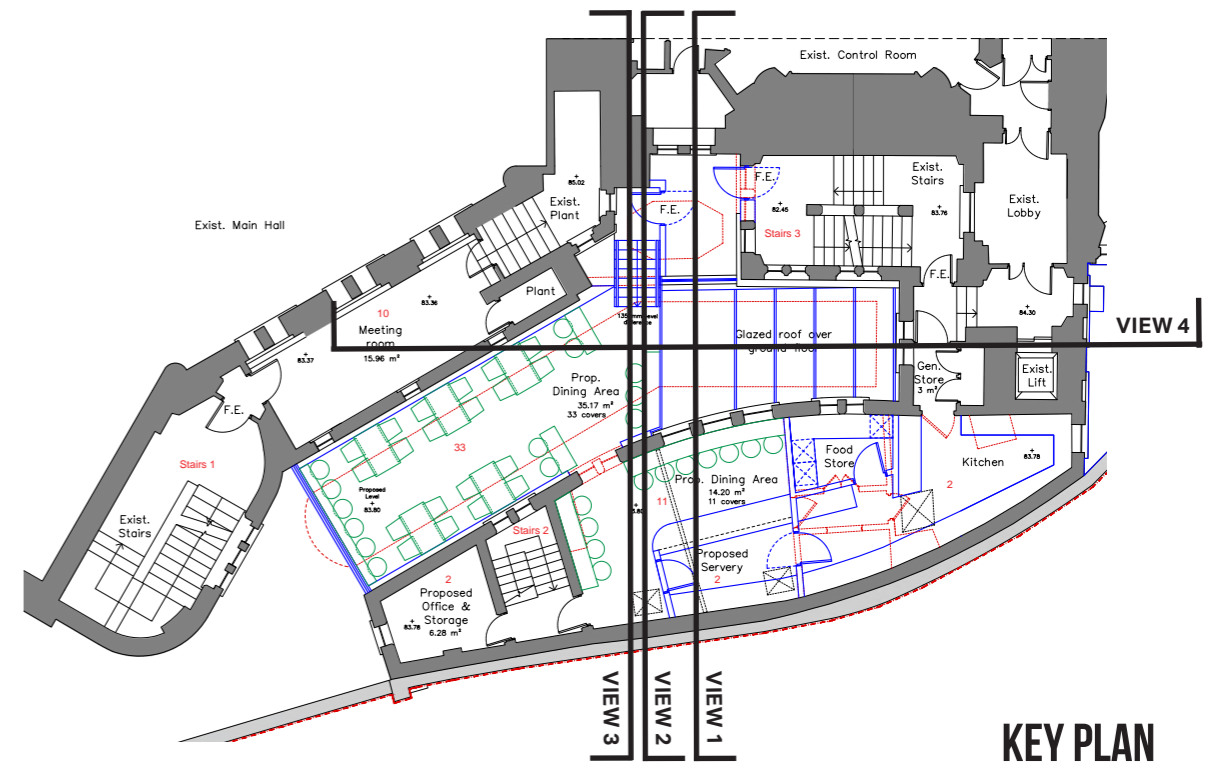
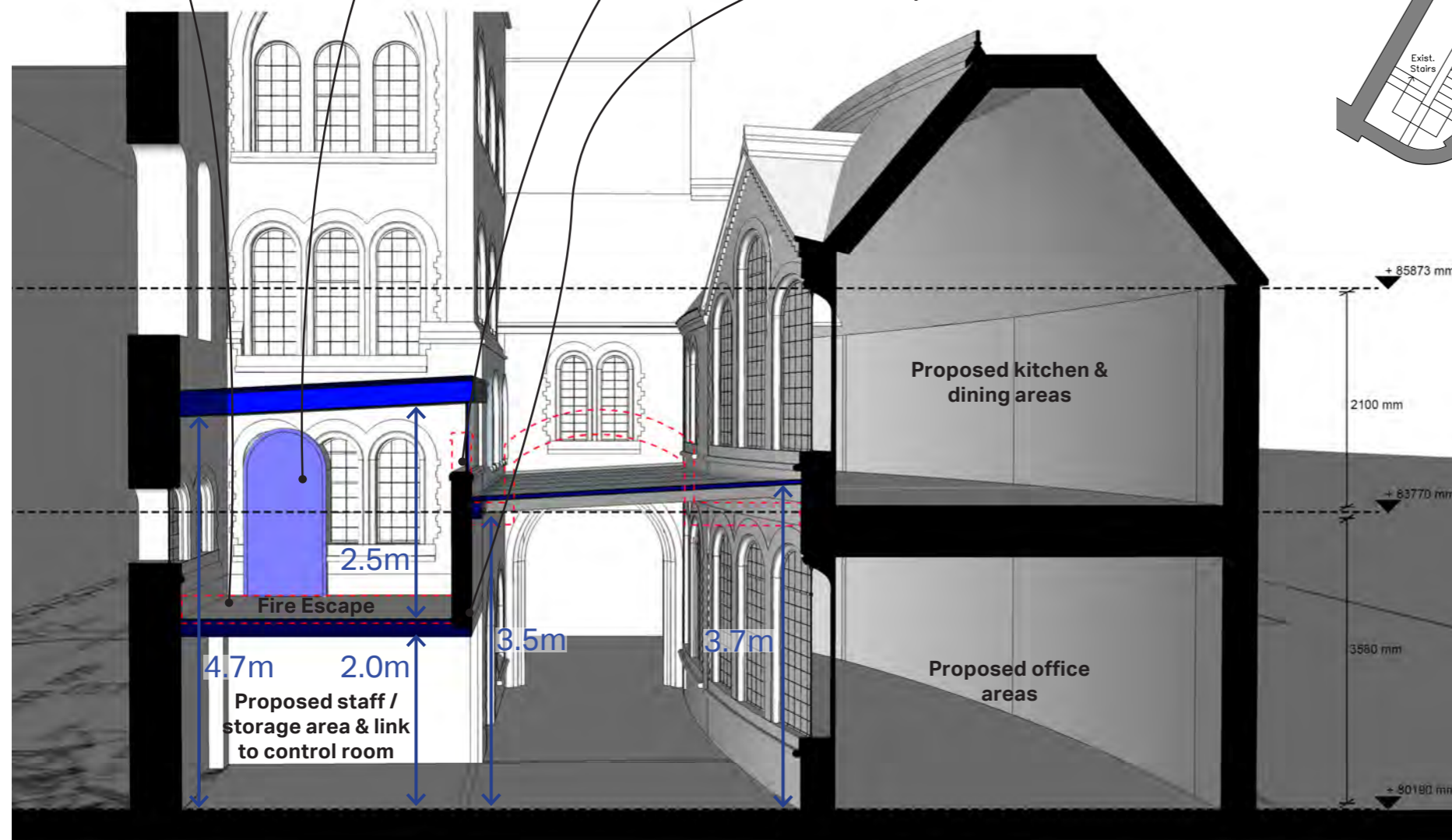
# STAIRS 3 LINK OPTION A - 3D SECTION VIEW

270mm floor thickness allowed for. If this can be reduced more headroom can be provided. Headroom in existing office area is 2220 mm above ground floor FFL.

Proposed new doorway from central staircase to provide access to dining area and emergency fire escape.

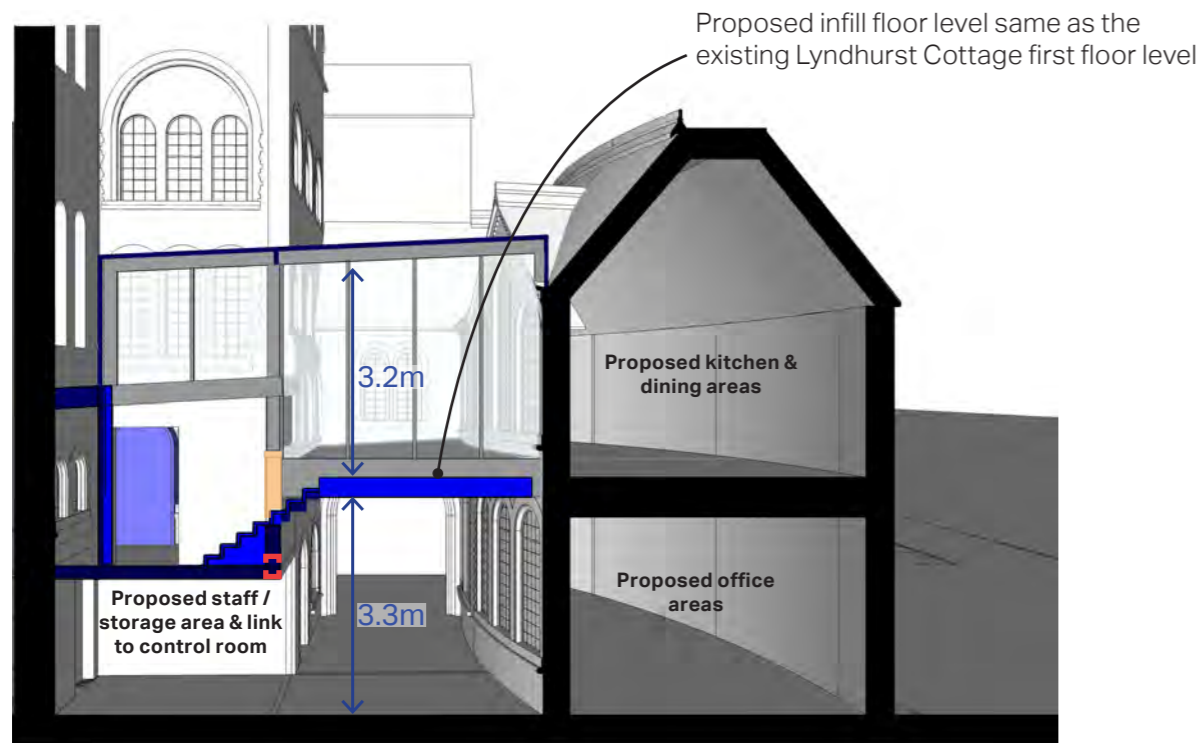
New glazed infill to allow natural light in.

Retain most of existing brick wall. Possible RC beam supporting masonry above.

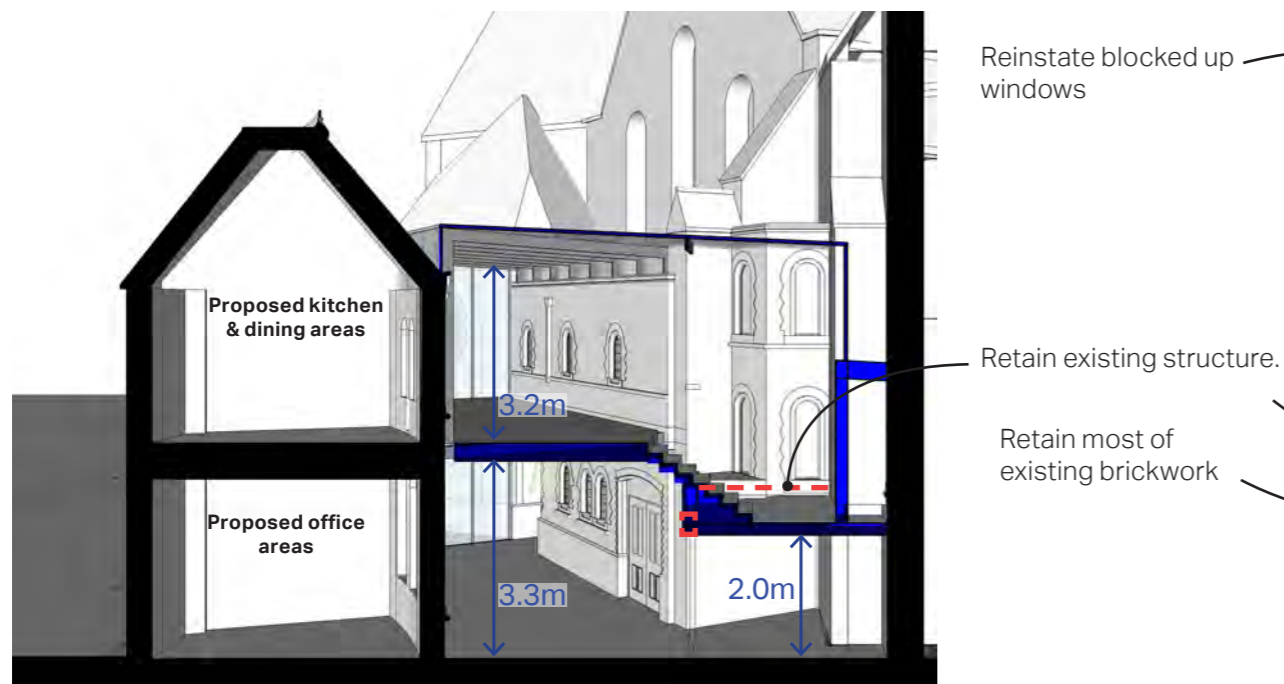


SECTION PERSPECTIVE - VIEW 1

# STAIRS 3 LINK OPTION A - 3D SECTION VIEWS



SECTION PERSPECTIVE - VIEW 2



SECTION PERSPECTIVE - VIEW 3



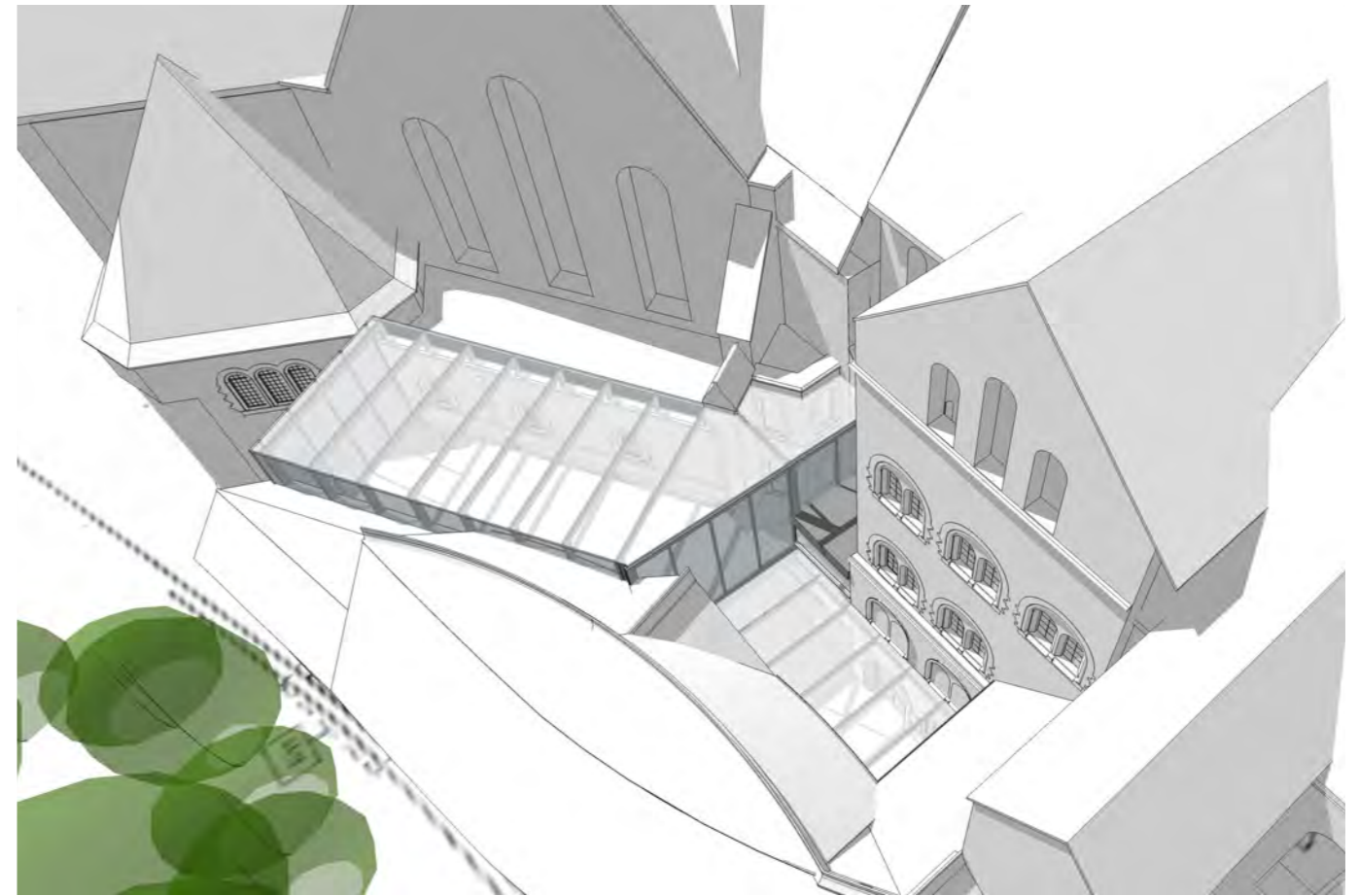
SECTION PERSPECTIVE - VIEW 4



# STAIRS 3 LINK OPTION A - 3D VIEWS



**PROPOSED INFILL - VIEW 1**



**PROPOSED INFILL - VIEW 2**



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