

6.0 Proposals - Student Study Centre

6.2 Works to Existing Buildings



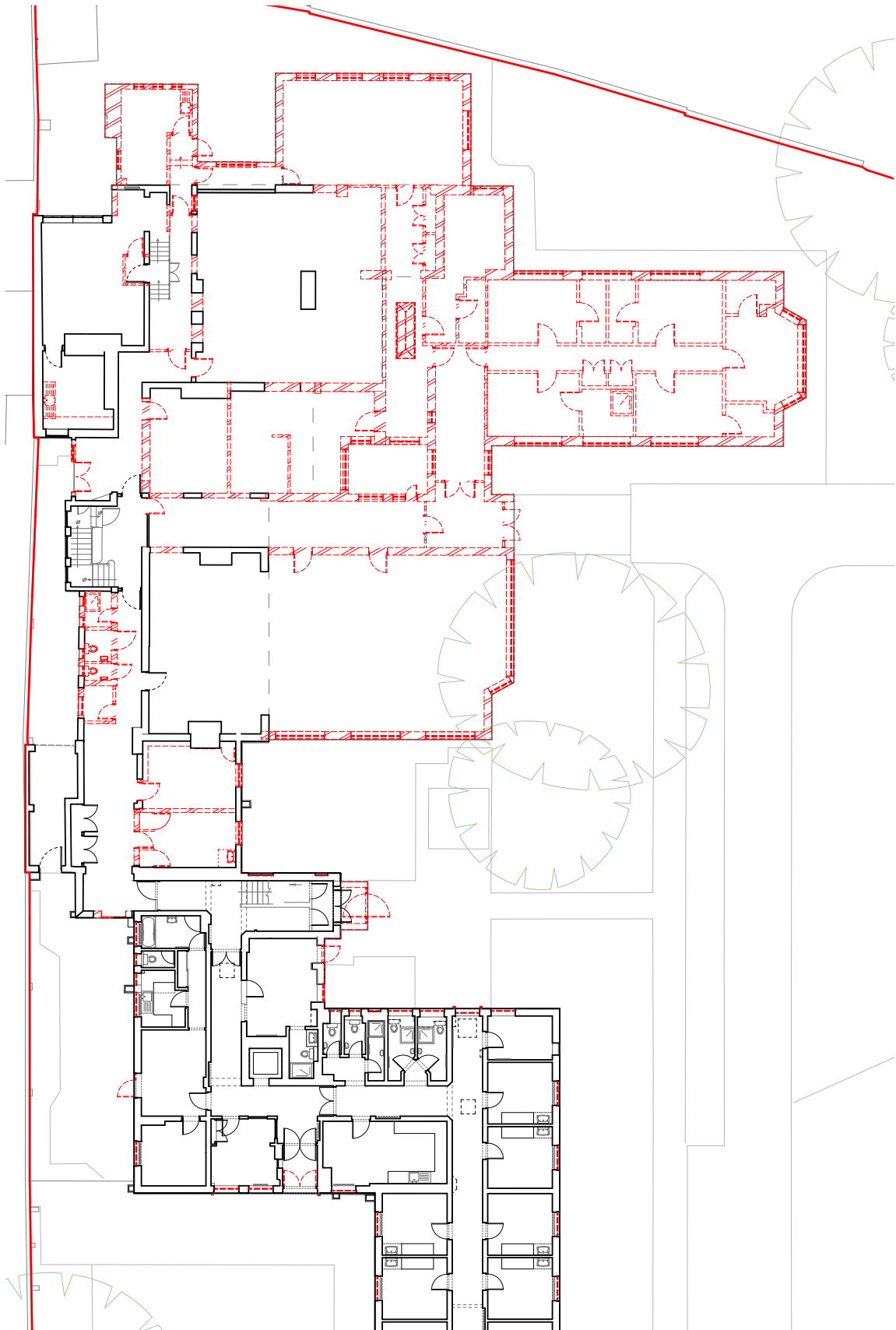
Block A - Existing Photographs



Block B - Existing Photographs

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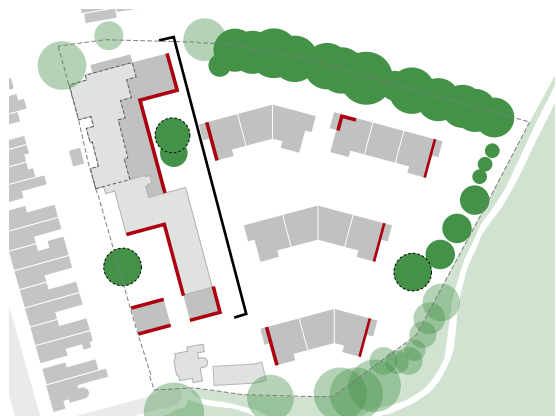
Ground Floor Demolition Plan - Block A & Block B north



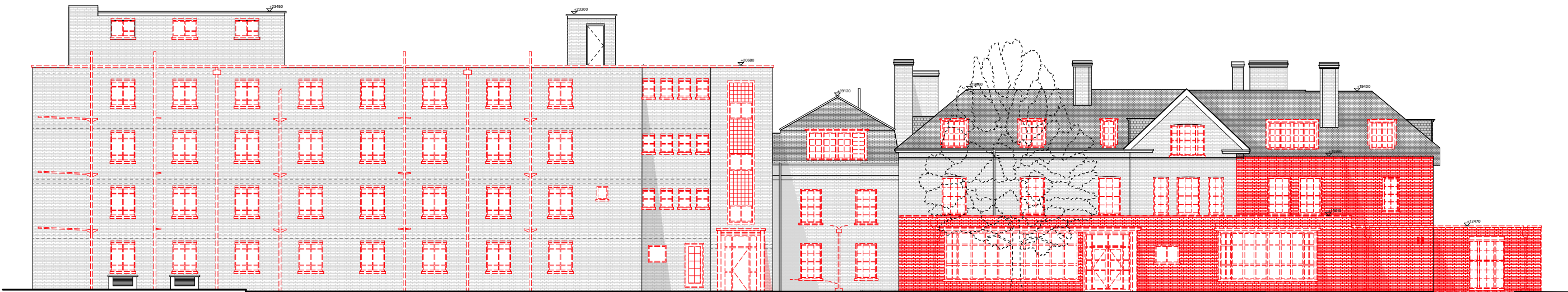
Ground Floor Demolition Plan - Block B north & Block D / outbuildings

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6.2 Works to Existing Buildings



Key plan



Existing / Demolition East Elevation - Blocks A and B



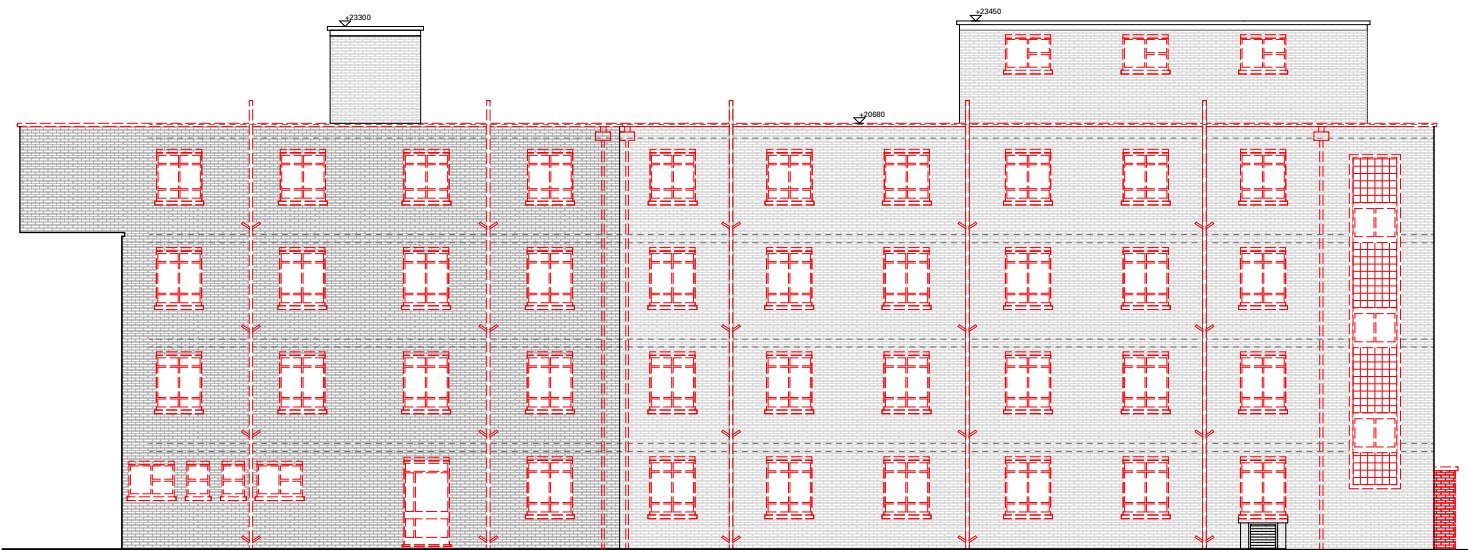
Proposed East Elevation - Blocks A and B

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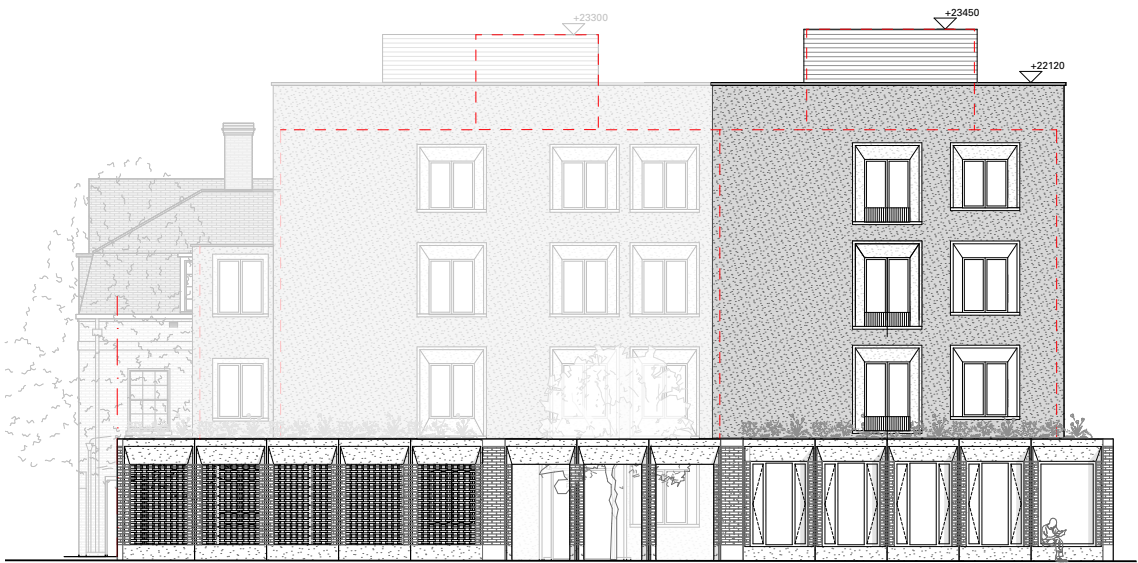
6.2 Works to Existing Buildings



Existing / Demolition South Elevation - Block B



Existing / Demolition West Elevation - Block B



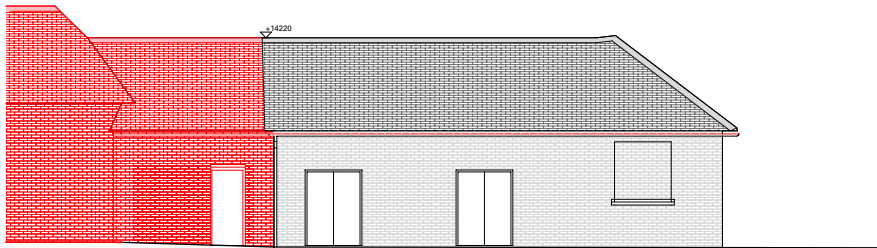
Proposed South Elevation - Block B



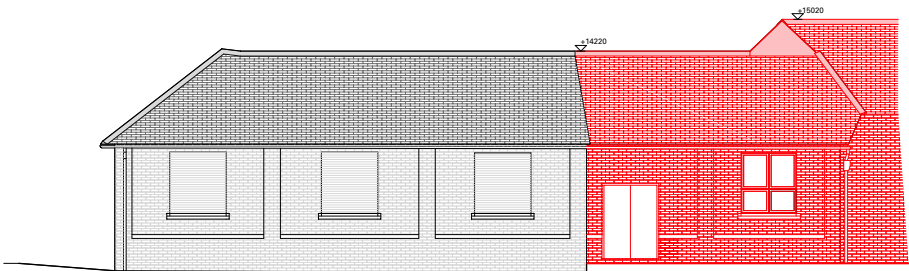
Proposed West Elevation - Block B

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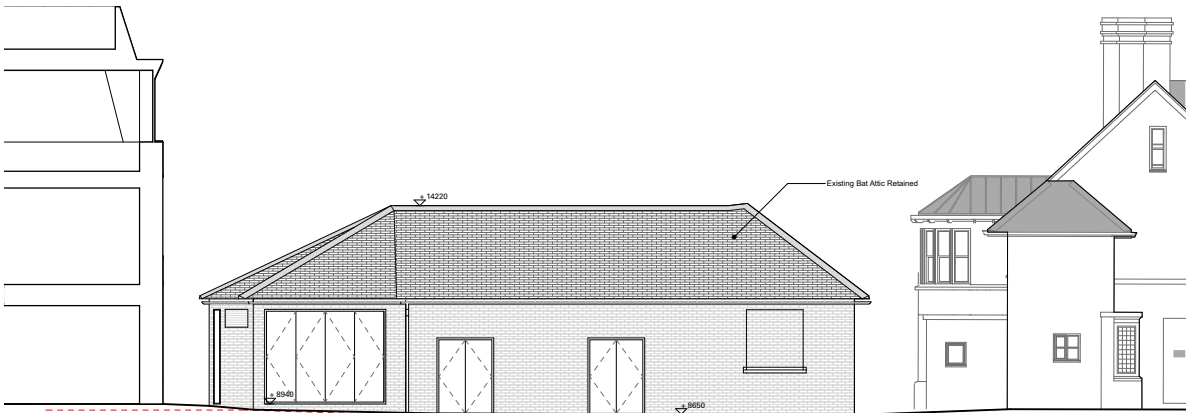
6.2 Works to Existing Buildings



Demolition Elevation A-A - Outbuildings North

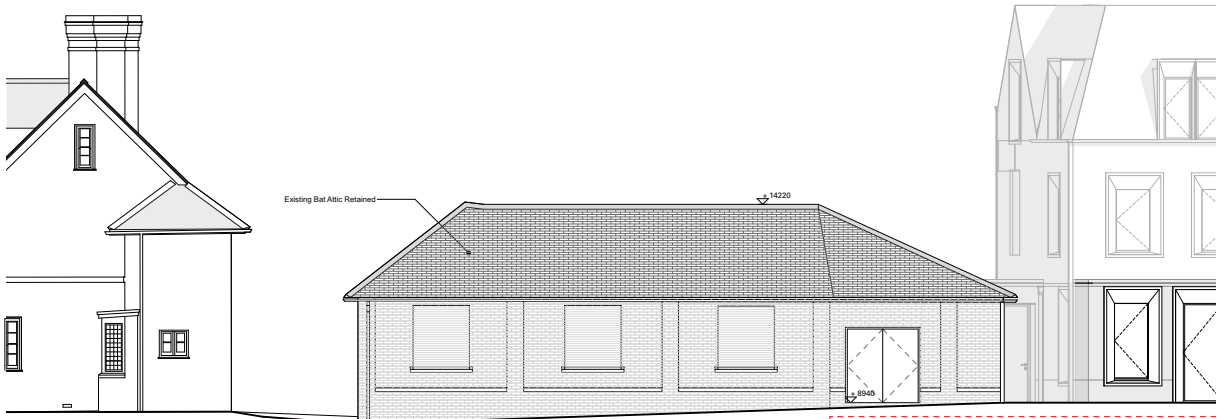


Demolition Elevation B-B - Outbuildings South



— Terrace 04 — — Substation — — Refuse Store — — Porter's Lodge —

Outbuildings North Elevation



— Porter's Lodge — — Refuse Store — — Switch Room — — Terrace 04 —

Outbuildings South Elevation

Note: Existing bat roost in outbuilding attic undisturbed and retained.

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6.3 Site Wide Communal Spaces

Key elements

Block A:

- Community study space (55 users)
- Seminar room (60 users)
- Small kitchen
- Gym
- Cycle stores

Block B:

- Cafe
- Cycle stores

Outbuildings:

- Refuse Stores
- Substation
- Gardener's Store

KEY

4 Bed House

5 Bed House

Study Spaces

Seminar Room

Entrance Lobby / Break out

Cafe

Gym

WCs / Servicing

Bicycles

Refuse

Substation

Gardener's Store



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6.4 Study Centre Layout & Facilities

The study centre provides a range of working environments for students to use independently or in groups.

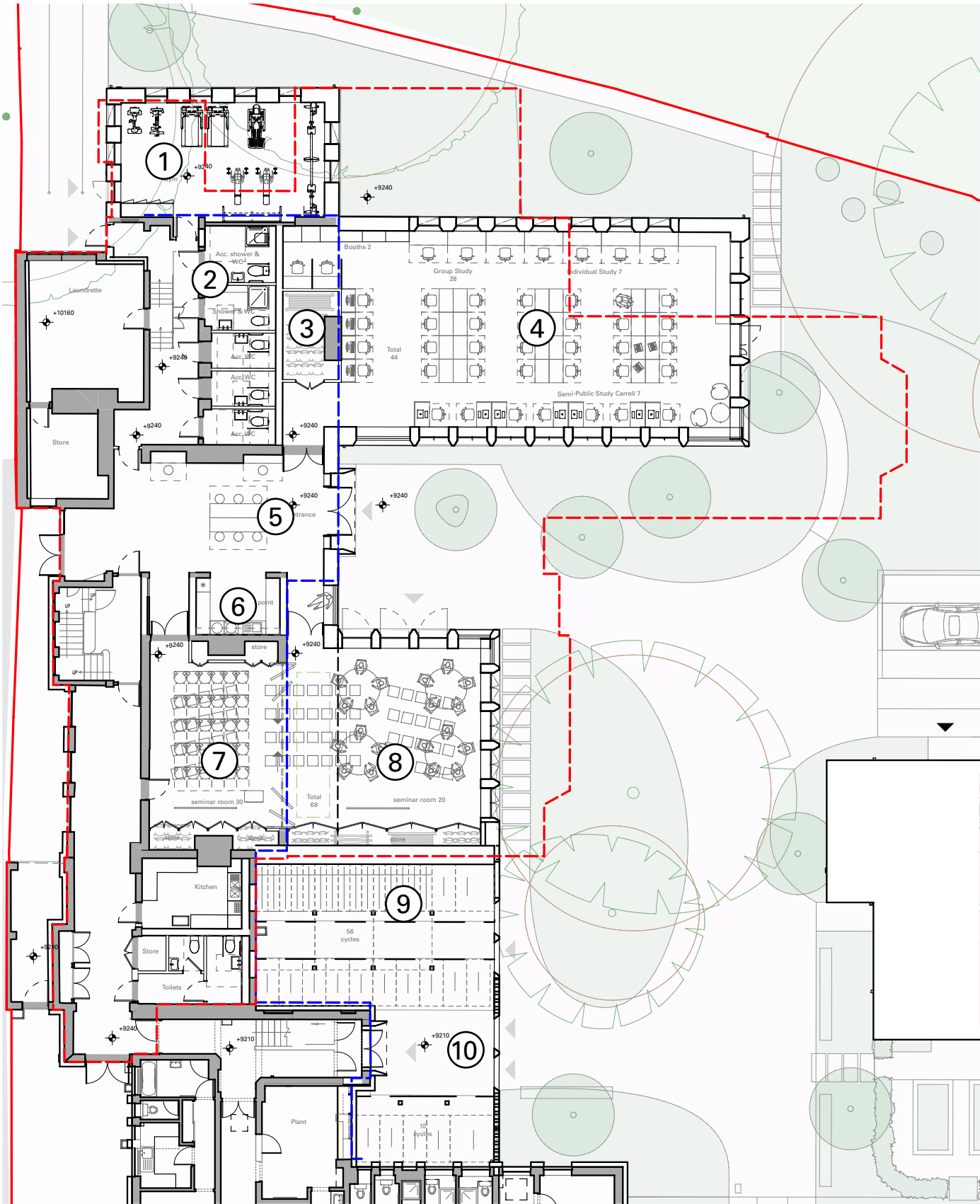
The entrance is to the centre of the building (5) and is integrated into the original gabled facade of Owlstone House creating a sense of arrival. To the north, quieter spaces are located for individual study and private meetings. A large study room (4) offers a variety of seating arrangements, from the private study carrel to group desks. A seminar room is located south of the entrance (7,8). This space can be split into two independent spaces both with access to the lobby/ breakout and kitchen spaces (6) if events are held. Learning spaces benefit from views out to the landscape and opportunities to congregate outside.

Study spaces are complemented by a small gym (1) to the north of the building and associated washing facilities (2).

Cycle storage (9) is integrated into the new proposals, enabling easy access for students and visitors to the study centre.

KEY

- ① Gym
- ② WCs and changing room
- ③ Storage
- ④ Study room
- ⑤ Entrance lobby
- ⑥ Kitchen
- ⑦ Seminar room
- ⑧ Group working area
- ⑨ Cycle store
- ⑩ Block B access



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6.5 Study Centre Illustrative View

Treatment of Owlstone House
The existing single storey will be removed to reveal the gable of the original Owlstone House and students enter Block A here. New single storey extensions frame the gable. The simple material treatment of the new extensions complements the original house and reasserts its importance in the site.



Key plan



Proposed view of Owlstone House and community space

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6.6 Study Room

A variety of study environments

The study centre creates an uplifting working environment for students. Each arrangement of desks has been conceived to create a comfortable and productive environment for the individual or group studying at a desk.

A variety of desk arrangements are offered, from the private to the more communal. These arrangements have been drawn from the rich history of library study carrel design that can be found across Cambridge libraries. The study centre will accommodate a range of users, who can find different spaces depending on their preferences as to the relationship between desk and window and proximity to others.

These desk arrangements have driven the design of the facade. The organisation of fenestration ensures that each desk space receives an excellent level of daylight and views out to the landscape, whilst mitigating against overheating.



Private desks directly facing window



Paired study carrels



Darwin College Library, Dixon Jones Architects.



Philips Exeter Academy Library, Louis Kahn



Trinity Hall Cambridge, Old Library

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6.6 Study Room



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6.7 Cafe & Cycle Store Layout

A new single storey facade to the south of Block B creates a strong new point of arrival at Owlstone Croft.

Behind here, a new cycle store (3) is located creating convenient storage for students and visitors to the site. A cafe (5) is also proposed here, sitting to the south of Block B at a key intersection of the site with a vantage along the spine route to the study centre and postgraduate homes to the north.

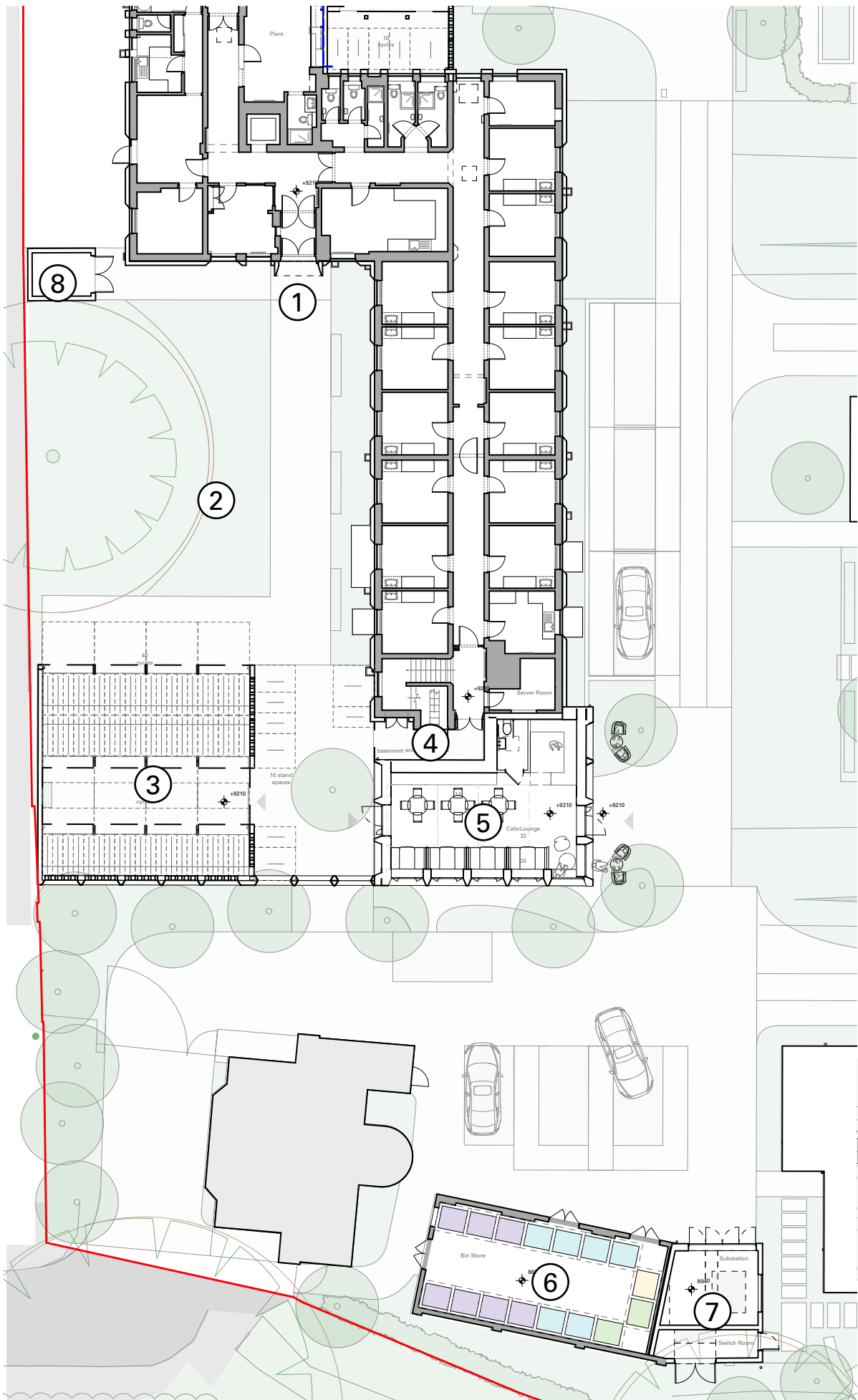
This new element also encloses a new courtyard for undergraduate students (2), replacing tarmac car parking with soft landscaping around an existing tree. The entrance (1) to Block B is via this courtyard, improving the setting and experience of circulation through the site to the existing accommodation located here.

The new building maintains the existing fire escape and access to the basement in Block B (4).

To the south of the site, existing outbuildings have been re-configured to accommodate a new substation (7) on site, as well as a consolidated refuse store (6) serving both the residential and communal uses on site.

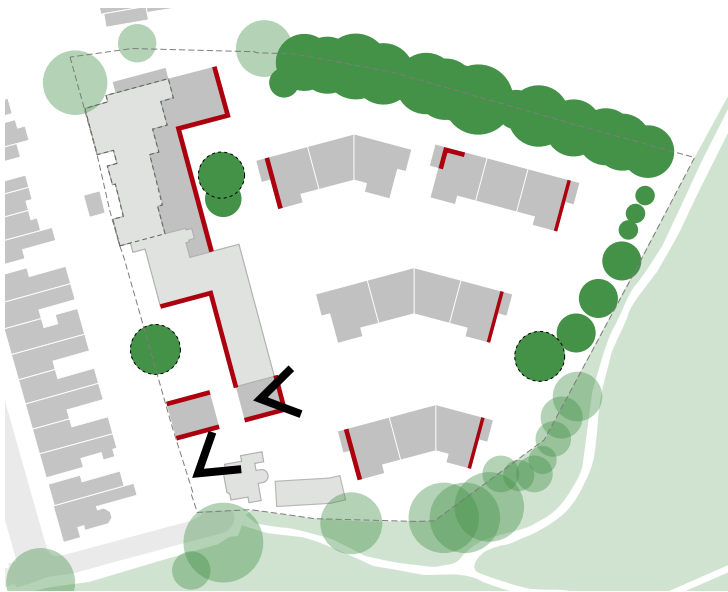


- KEY**
- ① Main entrance to block B
 - ② New undergraduate courtyard
 - ③ Cycle store
 - ④ Fire escape to block B
 - ⑤ Cafe
 - ⑥ Refuse Store
 - ⑦ Substation
 - ⑧ Gardener’s Store



6.0 Proposals - Student Study Centre

6.8 Cafe & Cycle Store Illustrative Views



Key plan



View 1



View 2

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6.9 Material Elevations

Block A

The facade arrangement for the study space is driven by the internal organisation of desks. The simplicity of the facade seeks to complement the Owlstone House, clearly differentiating the new build elements from the existing house.

A standing seam roof and the use of stone lintels, sills and jambs link the study space with details of the new postgraduate housing. The chimney creates a focal point along the north-south axis on site, whilst also evoking a sense of home.



Key plan



Through coloured pre-cast concrete lintel and sill



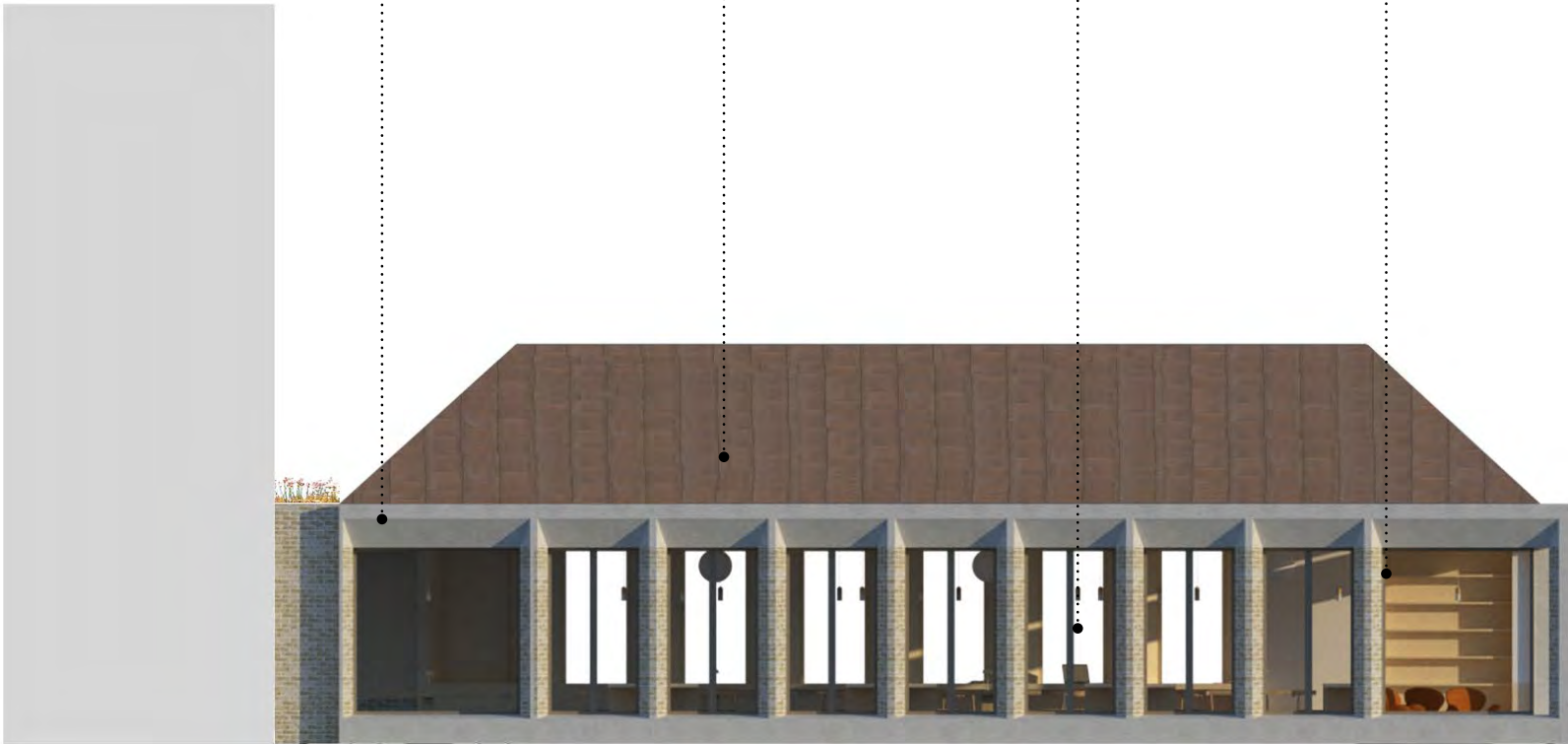
Standing seam roof



Triple glazed tilt turn window



Brick mix with flush pointed lime mortar



Study centre south elevation

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6.9 Material Elevations

Block B

A wet-cast stone portal defines a new main entrance to Block B, and frames a new undergraduate courtyard around the main entrance to Block B. A practical cycle store to the left of the portal is enlivened by hit and miss brickwork. A cafe is located to the right of the portal. This shares a similar language to the study space with wet-cast stone lintels, sills and jambs.



Key plan



Hit and miss brickwork.



Through coloured pre-cast concrete lintel and sill.



Brick mix with flush pointed lime mortar.



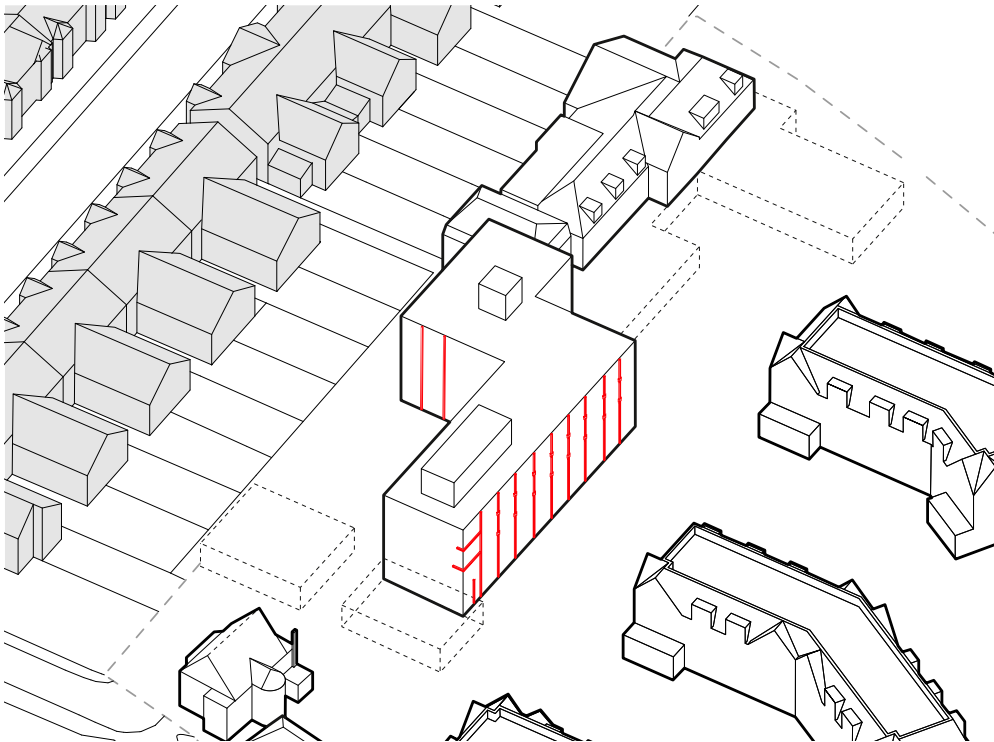
Triple glazed tilt turn window.



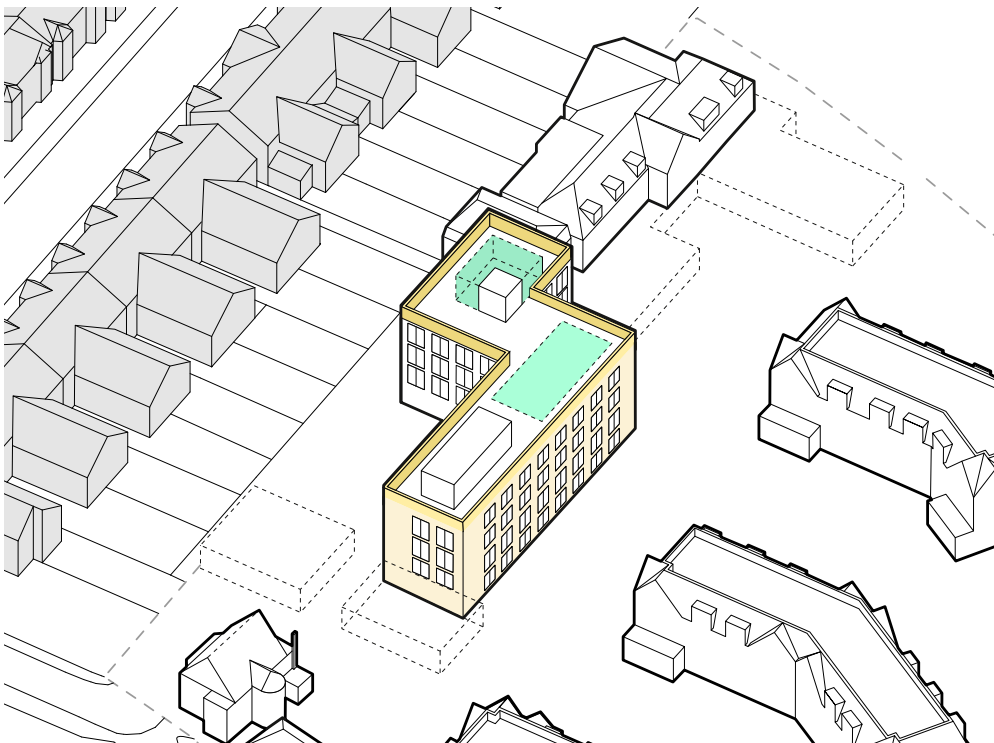
Block B, south elevation

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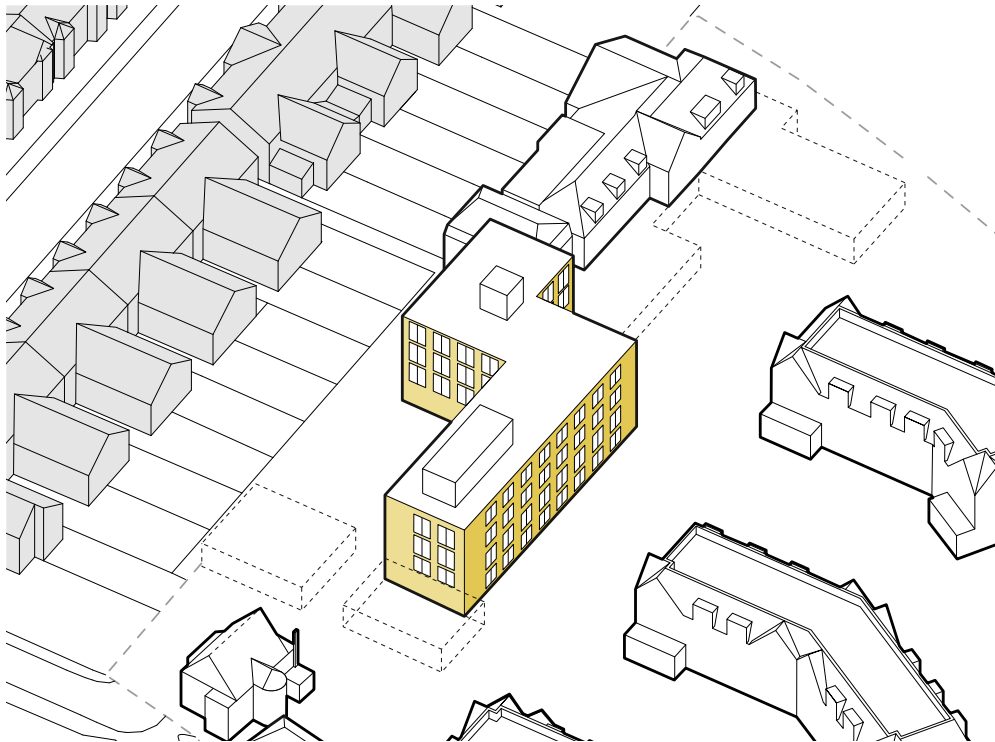
6.10 De-carbonisation Facade Works - Key Moves



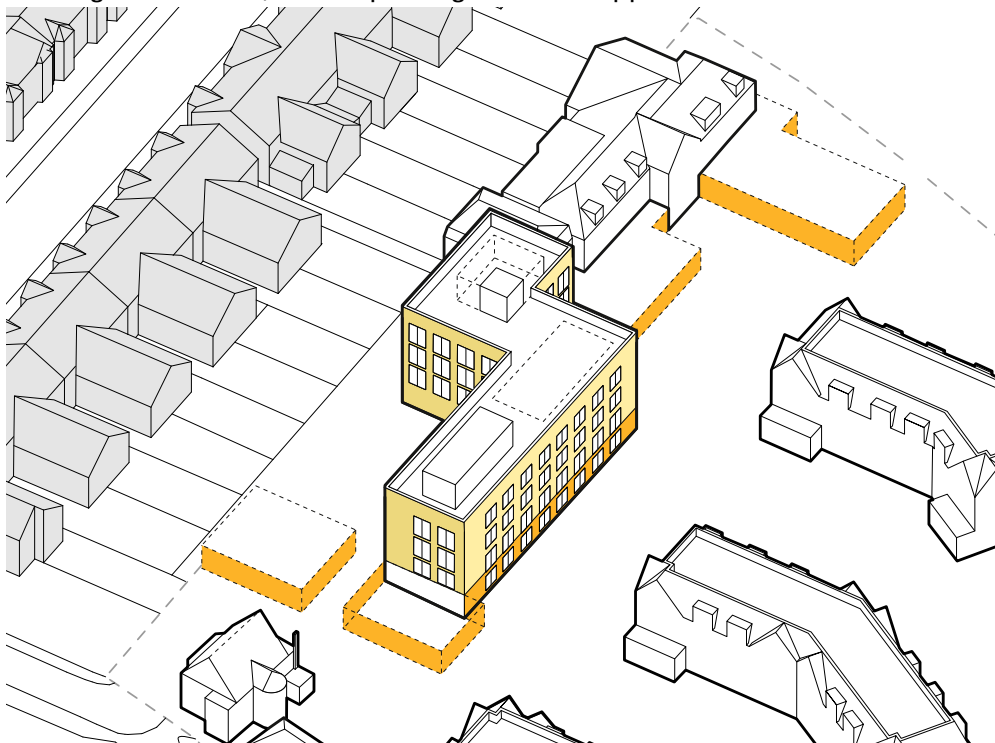
1. Existing building facade is cluttered with external SVPs and RWPs. These are removed where possible, and rationalised.



3. A parapet is added to enable safe access to the roof and to visually shield existing and additional plant proposed as part of a revised energy strategy. The parapet is integrated into the new rendered facade.



2. The thermal performance of the building fabric is upgraded, with new double glazed windows and external insulation and render over-cladding the existing brick facade, also improving it's visual appearance.



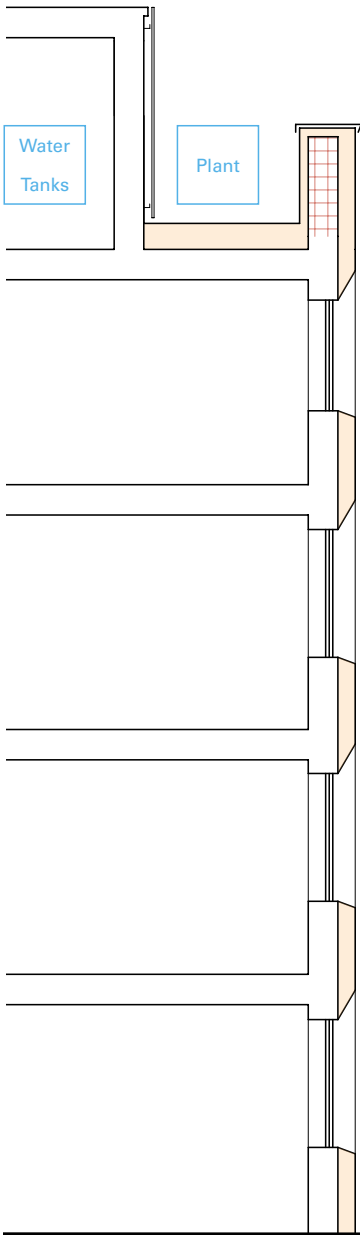
4. Detail is added to the facade to create a coherent appearance across the site and tie into ground floor proposals.

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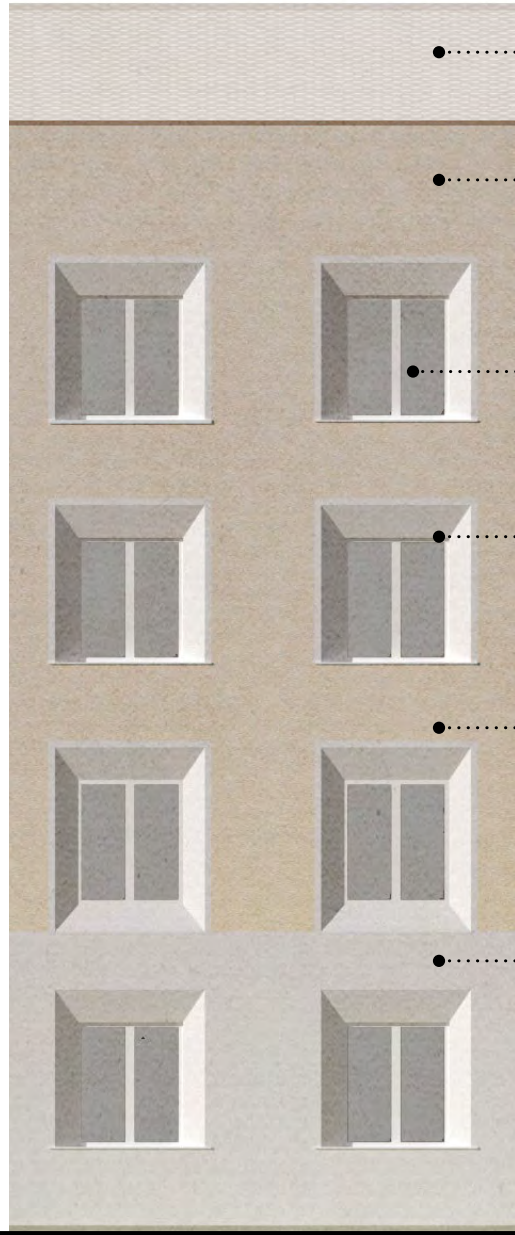
6.10 De-carbonisation Facade Works - Bay study



Key plan



Block B, proposed section



Block B, proposed elevation (bay study)

- Water tank room re-clad to provide uniform appearance (same as lift overrun and ASHP enclosure)
- Parapet enabling safe access to roof, visually shields rooftop plant
- New double glazed windows improve thermal efficiency and set back in facade to avoid internal overheating.
- Window reveals adding detail to facade and visually relate to other buildings on site, reveals maximise daylight to study bedrooms.
- Existing facade is externally insulated improving fabric thermal performance, with render finish improving the building's appearance and tying it into the rest of the site.
- Ground floor plinth in different colour of render to tie into proposed Study Centre and Cafe extensions.



Typical Terrace elevation