

1490-23 CDC Harpurhey

Community Diagnostic Centre

Design and Access Statement

December 2023



This Design and Access Statement has been produced by **DAY Architectural Ltd.** for the new development at **Harpurhey** and submitted to the local planning authority.

The design has been developed in conjunction with:
Manchester University NHS Foundation Trust
CCS consulting- Civil and Structural Engineer
Sisealy - M&E engineer

Studio 1
Lancaster Buildings
77 Deansgate
Manchester
M3 2BW
0161 8349703

www.day-architectural.com
info@day-architectural.com

Rev. A - 22.12.2023

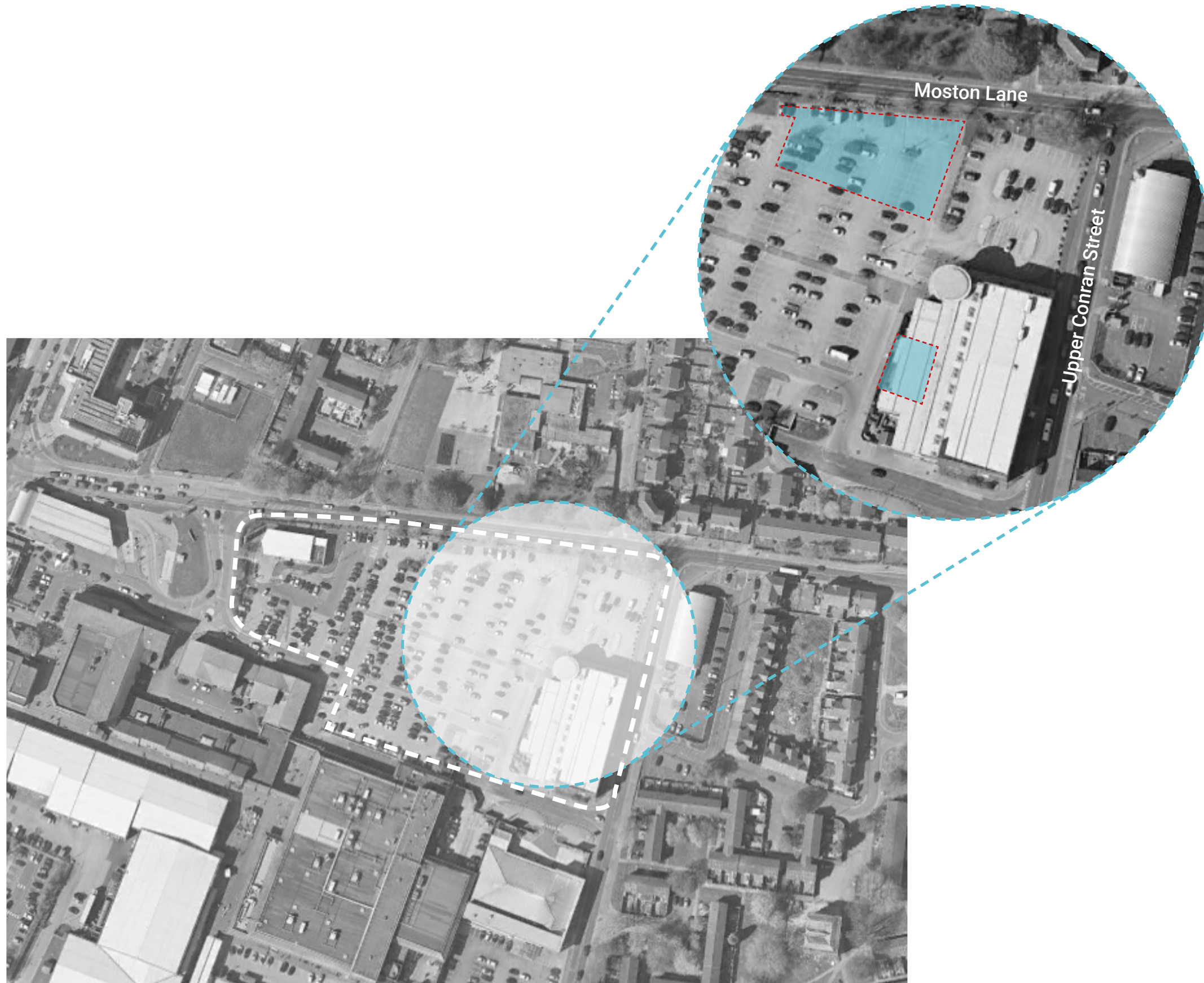
DAY

Contents

00 / INTRODUCTION	04
01 / SITE CONTEXT AND ANALYSIS	07
02 / EXISTING LAYOUT - CRU	13
03 / PROPOSED DESIGN - Overall site plan	16
04 / PROPOSED DESIGN - CRU	19
05 / PROPOSED DESIGN - CDC	24
Appendix	29

00 / Introduction

Brief



Brief Overview

DAY and its Design Partners were approached by Manchester University NHS Foundation Trust to assist in the next phase of the Community Diagnostic Centre Hub Programme, as part of the wider NHS Elective Recovery plan.

A Community Diagnostic Centre (CDC) provides a broad range of elective diagnostics (including checks, scans and tests) away from the major hospital sites such as Manchester Royal Infirmary, Wythenshawe Hospital and North Manchester General Hospital.

The Manchester and Trafford CDC programme operate as a large 'Hub and Spoke' model, with a main hub located at Withington Hospital, with smaller spoke sites at Trafford General Hospital with the intention for the next phase here, at the North Manchester site in Harpurhey.

The Imaging Services under the proposed Harpurhey CDC model will include dedicated Mobile CT & MR Scanners, with an associated support hub. Alongside this, the refurbishment of the former Sure Start Harpurhey Nursery at the North City Family & Fitness Centre on Moston Lane will provide a 5 Consultation Rooms Cardio Respiratory, & Ophthalmology Services.

The Manchester and Trafford (North Manchester) CDC in Harpurhey could offer 41,000 additional tests when fully operational.

00 / Introduction

Brief

Statement - Provided by the Manchester University NHS Foundation Trust

The Community Diagnostic Centre (CDC) Programme is a nationally coordinated NHS initiative to improve the delivery of diagnostic services (including checks, scans and tests) for patients. Diagnosis is a vital step to enabling treatment for patients. There is currently insufficient diagnostic capacity to meet demand and this problem is exacerbated in areas of health inequality, where patients face additional barriers to accessing services.

Manchester University NHS Foundation Trust (MFT) have been appointed to deliver the CDC Programme on behalf of Manchester and Trafford. Delivering this model achieves several key strategic objectives for NHS England and for MFT including reducing pressure on acute hospitals, increasing the speed in which patients can access tests and receive results, reducing waiting times and improving the location of test sites and increasing the choice available to patients about where to receive treatment, including provision of care in the heart of their communities.

Our CDC Hub is located in Withington, however MFT recognise the significant health inequality that currently exists within North Manchester and therefore at the core of our programme is the desire to open additional facilities that patients within North Manchester can easily access. For this reason, we are proposing to open our CDC Spoke in Harpurhey.

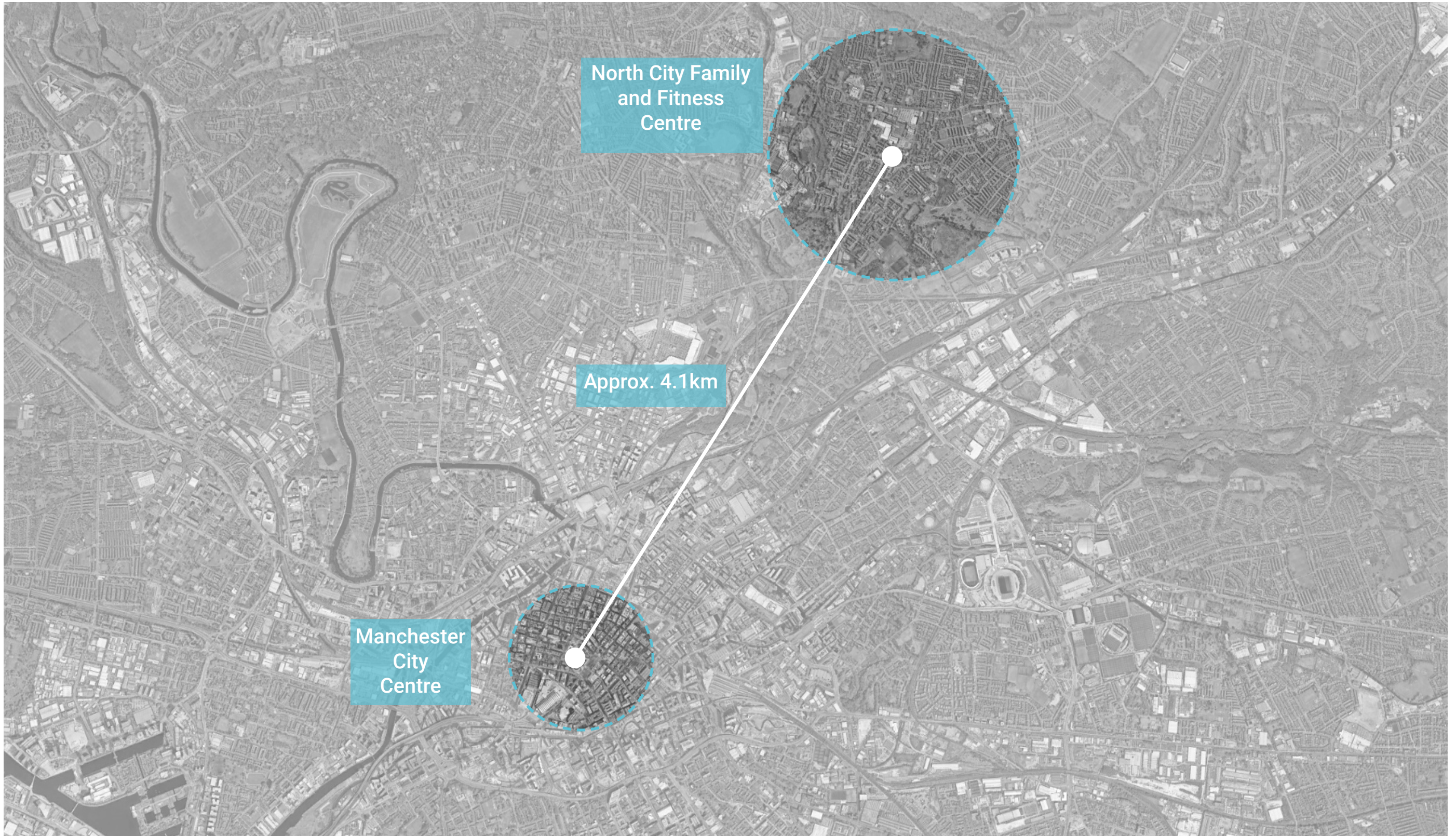
The CDC Spoke in Harpurhey will provide a CT and an MR scanner that will offer diagnostic testing for patients under the care of MFT in a convenient and accessible community location. Although based in the community the facility will be able to offer a state-of-the-art imaging service, fully connected to MFT systems. The additional capacity this provides will reduce waiting times for scans and ensure patients are diagnosed more quickly.

In addition, within the North City Family & Fitness Centre itself, a suite of clinical rooms will enable us to offer cardiorespiratory testing as well as ophthalmology testing. We know that patients in North Manchester have higher than average rates of cardiorespiratory disease and so this additional capacity will help us to ensure that they are diagnosed earlier and so receive treatment earlier. When patients receive treatment for cardiorespiratory disease they are less likely to have exacerbations of their condition that require them to attend A&E or be admitted to hospital.

By co-locating our diagnostic services (MR and CT scanning, and other tests) together in the CDC Spoke, we aim to offer the ability for patients who are waiting for multiple tests to receive these in a single visit, reducing the need for multiple hospital visits and so reducing the cost and time it takes for patients to receive a diagnosis.

01 / Site Context and Analysis

Location



01 / Site Context and Analysis

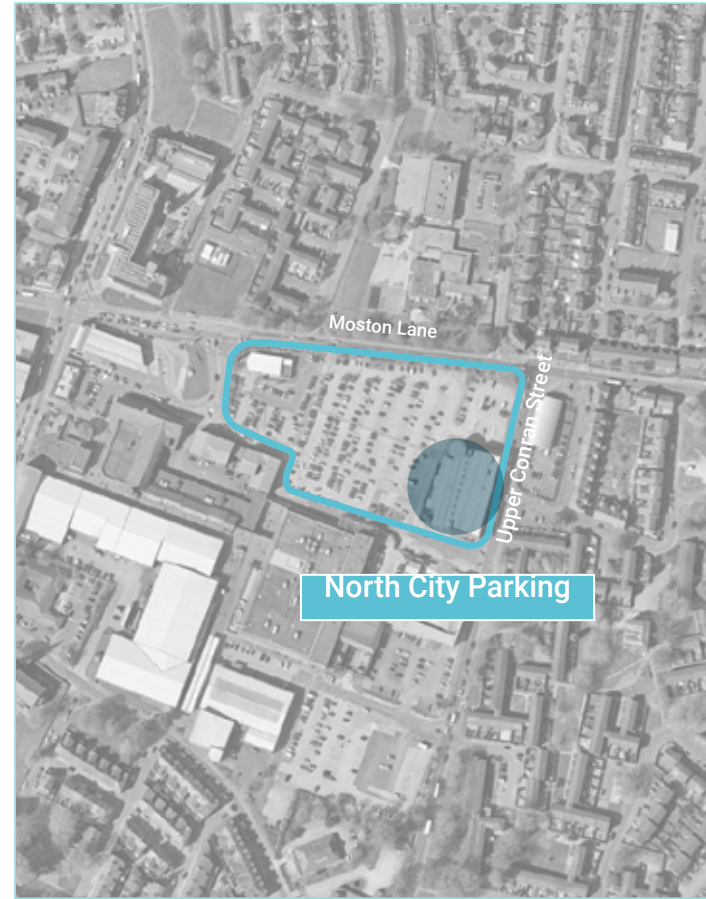
Macro to Micro Scale



1.1 Macro Context



The proposed facility will form part of the MFT North Manchester 'Hub and Spoke' model, with the Harpurhey site 3 miles North East of Manchester City Centre.



1.2 Meso Context



Contextually, the site sits within a predominantly retail / residential area of Harpurhey with the sites sitting within the North City Shopping Centre.



1.3 Micro Content - Car Park



Two individual sites form the area of works with the first being on an area of parking that borders Moston Lane at the north of the site.

Circa 60 parking spaces will be lost as a result of the works, The proposal will affect a total of 68 car parking spaces, and will provide 8 that will be dedicated to accessible parking and staff, as well as an additional emergency drop off area with associated landscaping works required to ensure security, logistics and access routes as a priority.



1.4 Micro Content - North City Fitness



Alongside the static CDC unit at the north of the site, internal refurbishment is required at the former Sure Start Harpurhey Nursery, as part of the North City Family and Fitness Centre, completed circa 2004.

This area is to provide a new 5 Consultation Room Cardio Respiratory Suite and the associated amenities.

01 / Site Context and Analysis

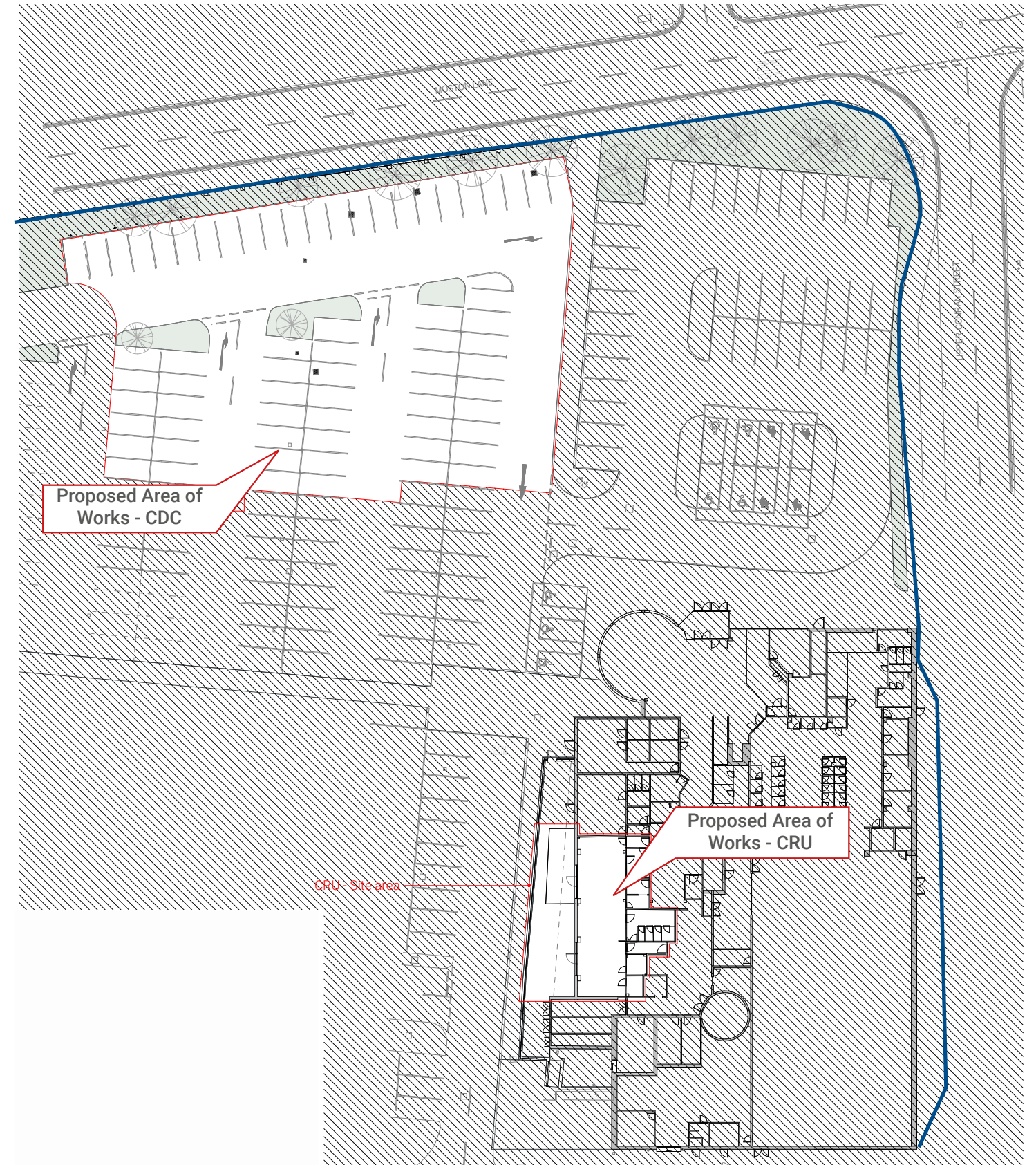


Existing Site Plan - Proposed Area of Works

Existing Site

The adjacent plan demonstrates the area of the proposed works in relation to the existing site context, as discussed in the previous sections, landscaping works are required to ensure security of the units are prioritised, alongside pedestrian / vehicular access routes.

-  North City Boundary
-  Proposed Site



01 / Site Context and Analysis

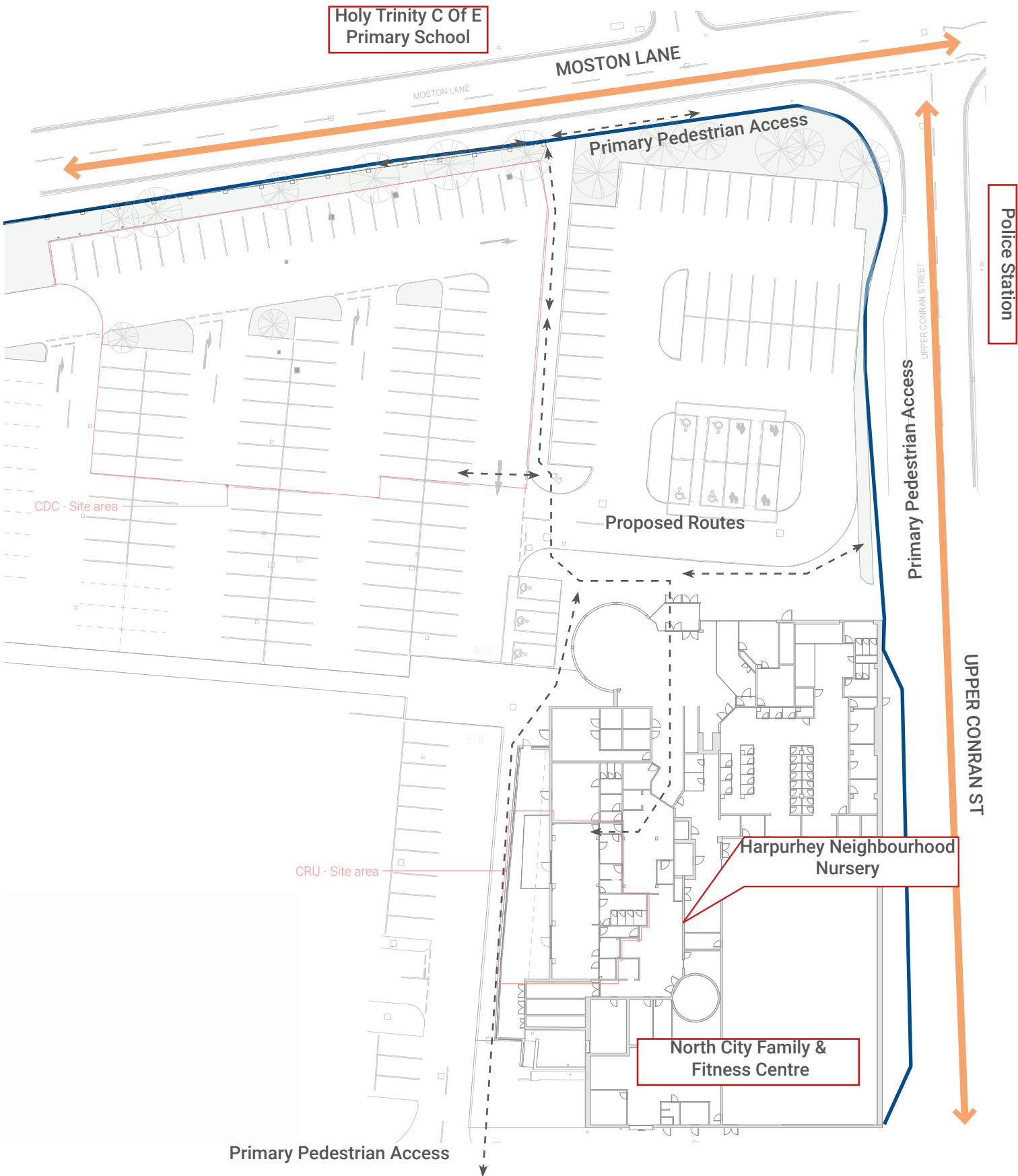
Site Access - Pedestrian

Existing Site

The adjacent plan demonstrates the key primary access routes affecting the development, The units will be served by the existing North City Shopping Centre circulation routes, with pedestrians utilising established circulation routes in conjunction with signage.

The proposal of CDC aims to reduce to a minimum the impact for the existing mobility routes.

- ↔ Pedestrian Routes
- ↔ Main Roads
- North City Boundary
- Proposed Site



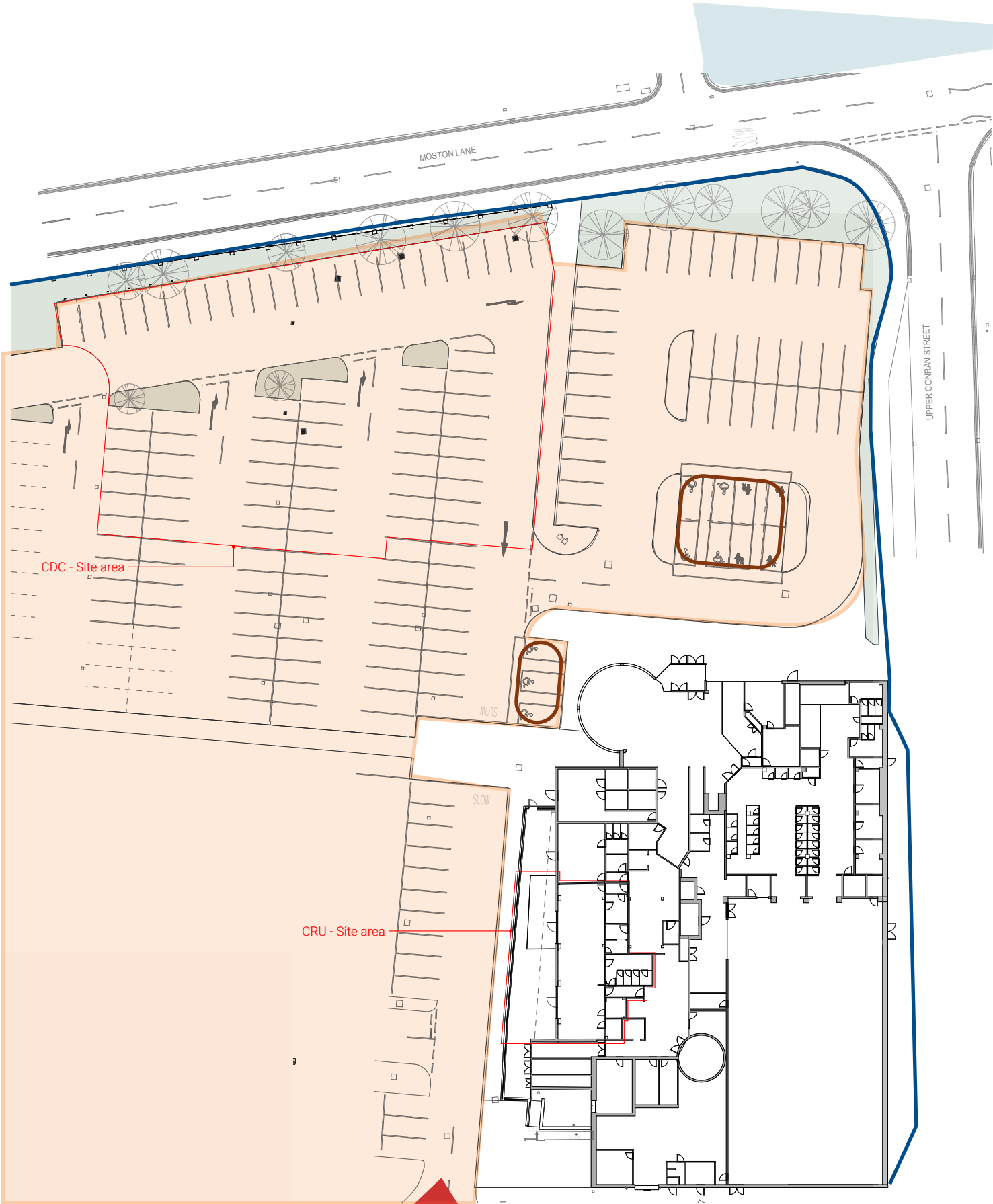
01 / Site Context and Analysis

Site Access - Vehicular

Existing Car Parking

- Mixed Car Park
- Accessible Car Park
- Residential Area
- Vehicle Access

- Secure Boundary
- North City Boundary
- Proposed Site



02 / Existing Layout

Existing Plan - Nursery Accommodation

CRU - Existing Ground floor plan

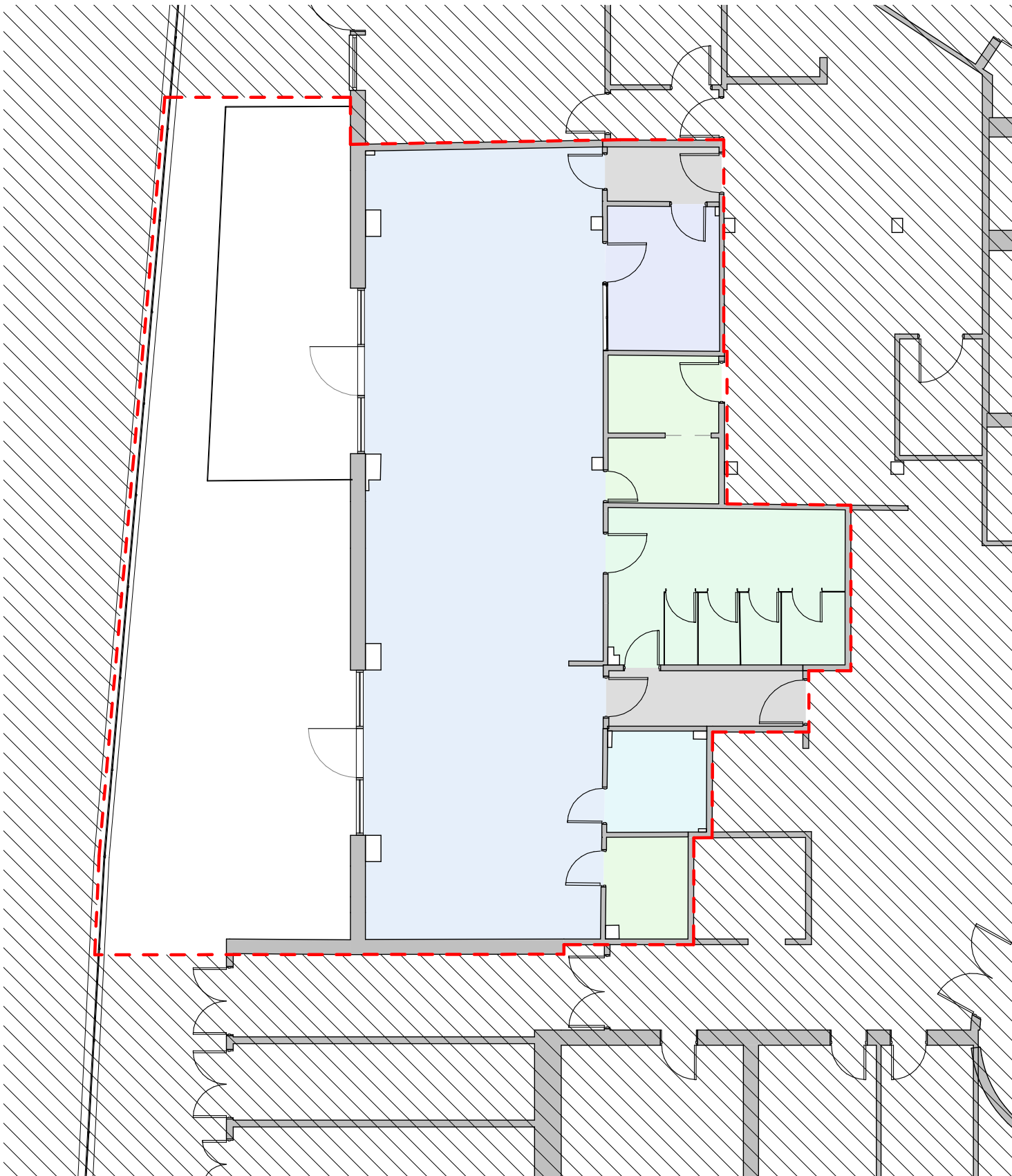
The existing area is currently occupied by the Harpurhey Sure Start Children's Centre. Demolition works are to be kept to a minimum to reduce disruption and define the department boundary.

- By Department Legend
- Brew
 - Circulation
 - Nursery
 - office
 - Store
 - WC

GENERAL ARRANGEMENT PLAN KEY

 Overall site area 556 sqm.

Internal refurbishment area 460 sqm



02 / Existing Layout

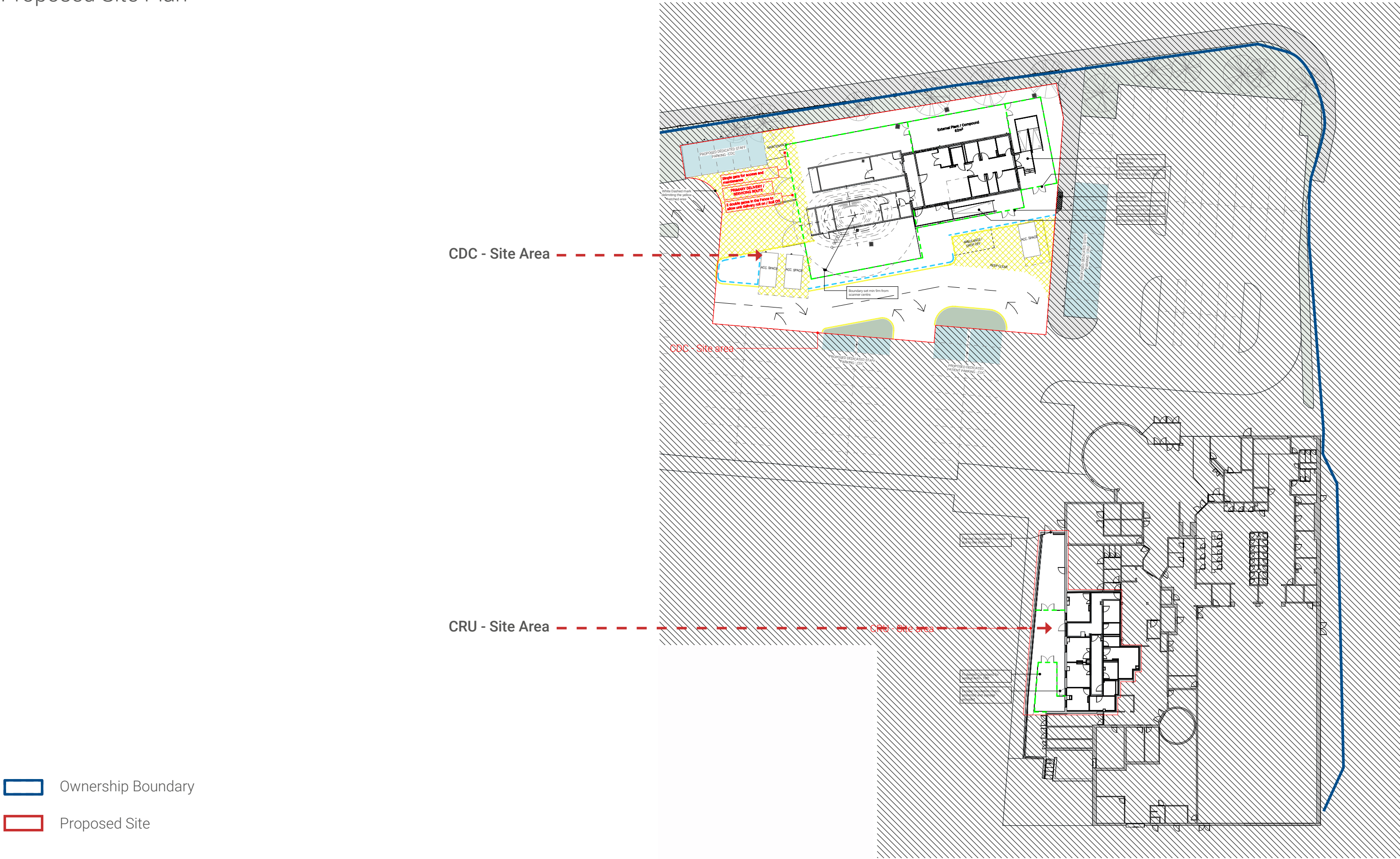
Existing Site Photographs



03 / Proposed Design

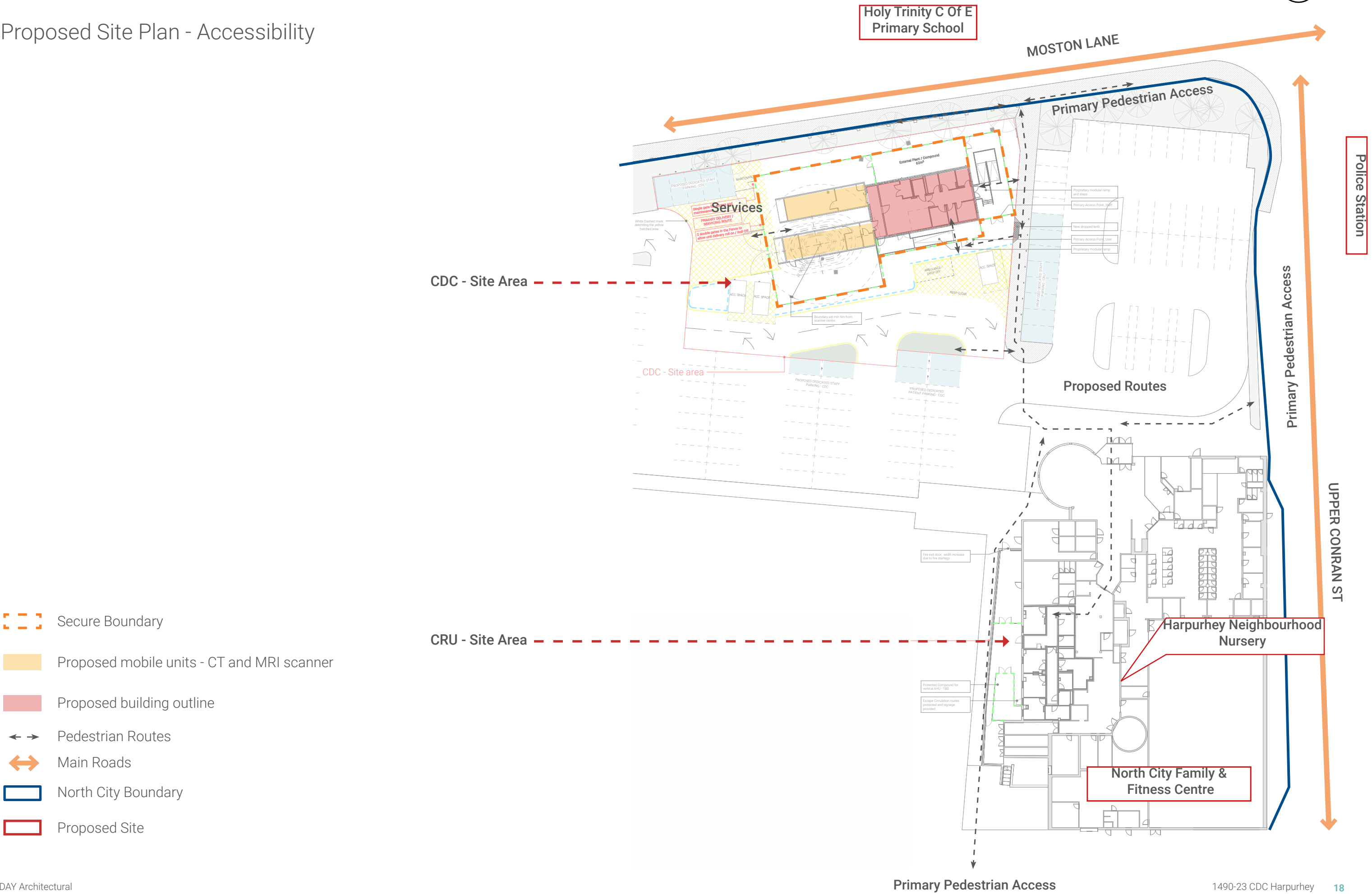


Proposed Site Plan



03 / Proposed Design

Proposed Site Plan - Accessibility



04 / Proposed Design

Proposed Site Plan - CRU

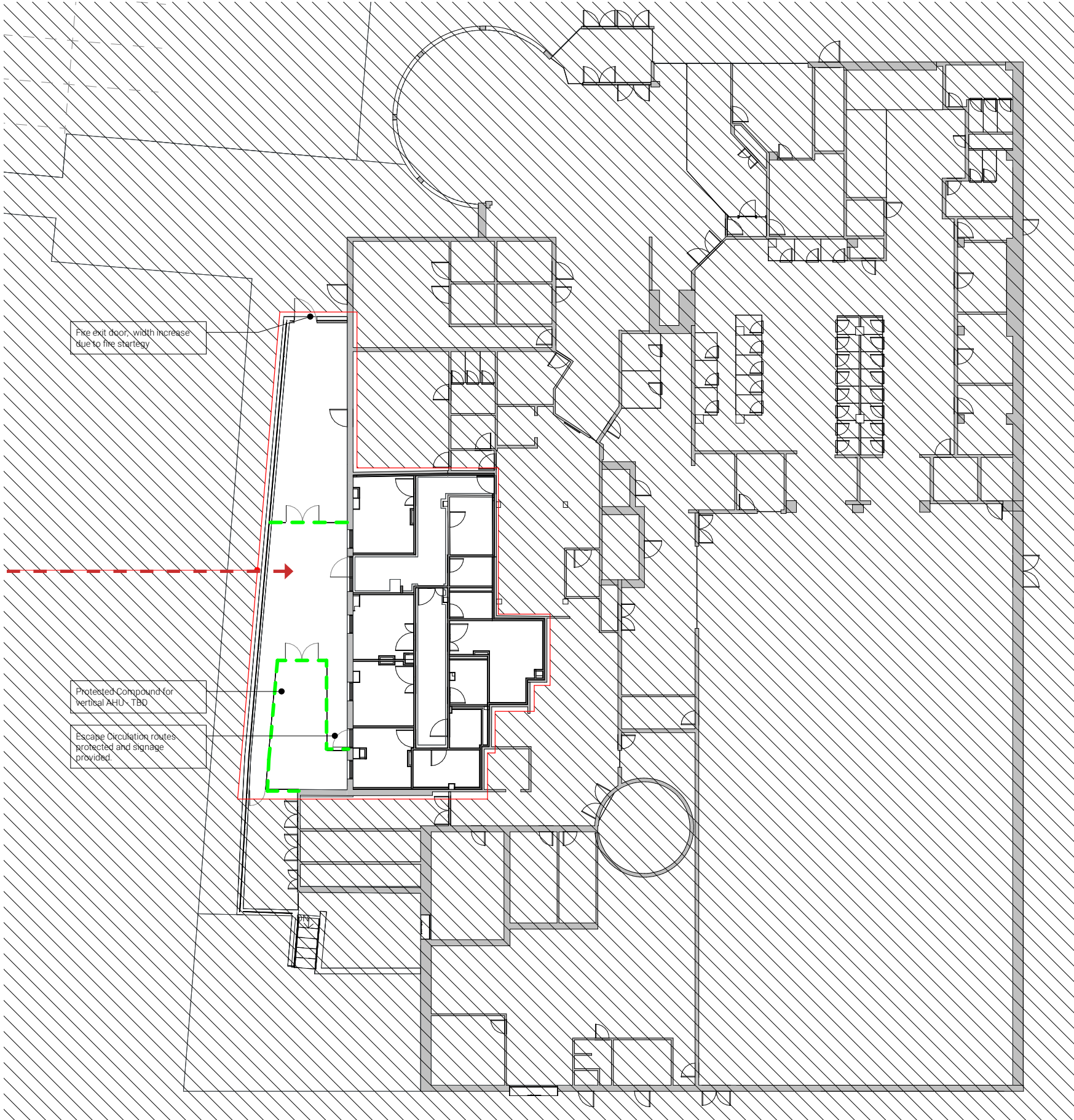


 Proposed Site

CRU - Site Area 

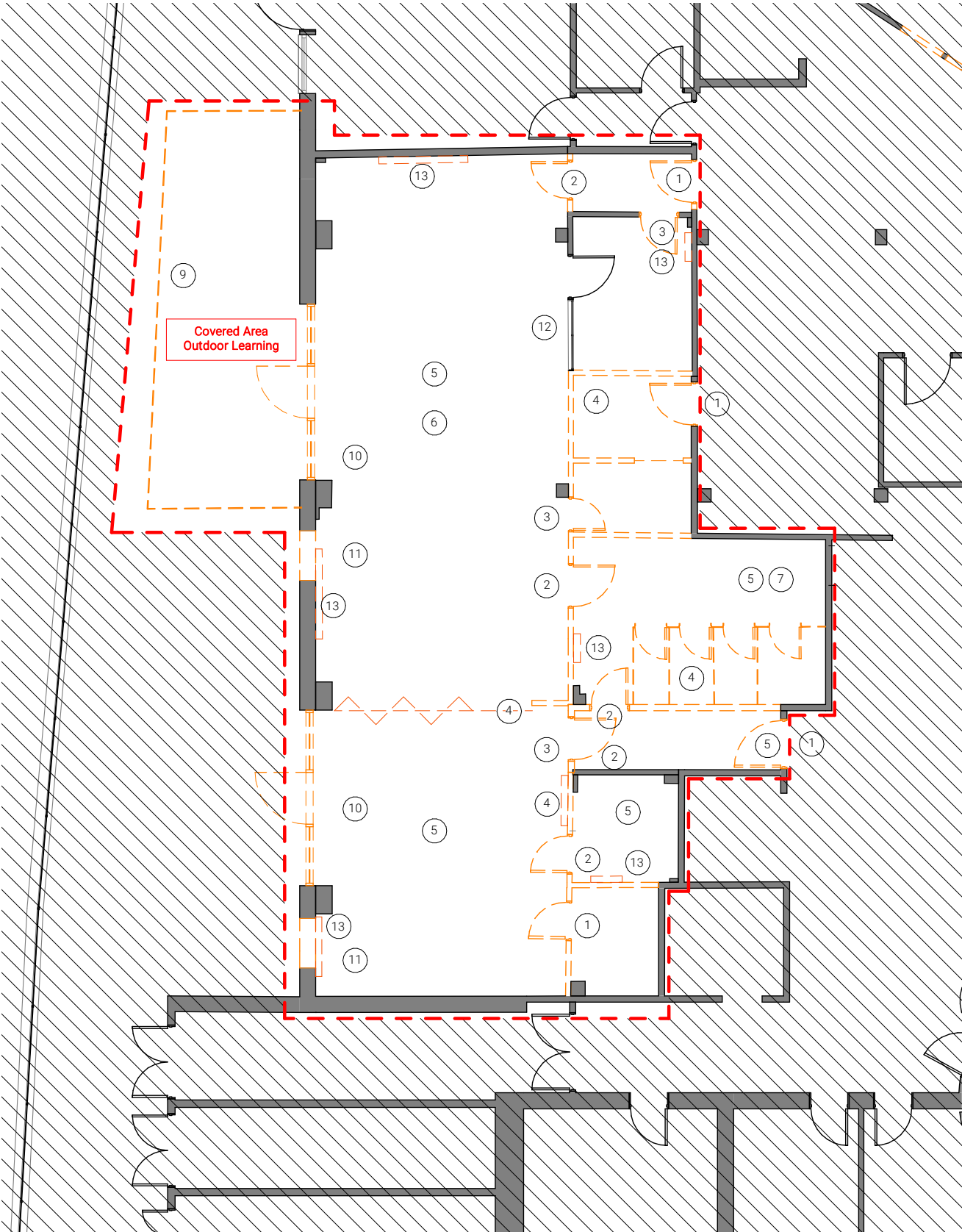
Fire exit door, width increase due to fire strategy

Protected Compound for vertical AHU - TBQ
Escape Circulation routes protected and signage provided



04 / Proposed Design

CRU - Demolition Plan



DEMOLITION SCOPE OF WORKS

--- Denotes elements to be demolished

— Denotes elements to be retained

Ground Floor Demolition Plan

04 / Proposed Design

Proposed GA Plan - Cardio Respiratory Unit

Proposed Plan - Ground Floor

By Department Legend

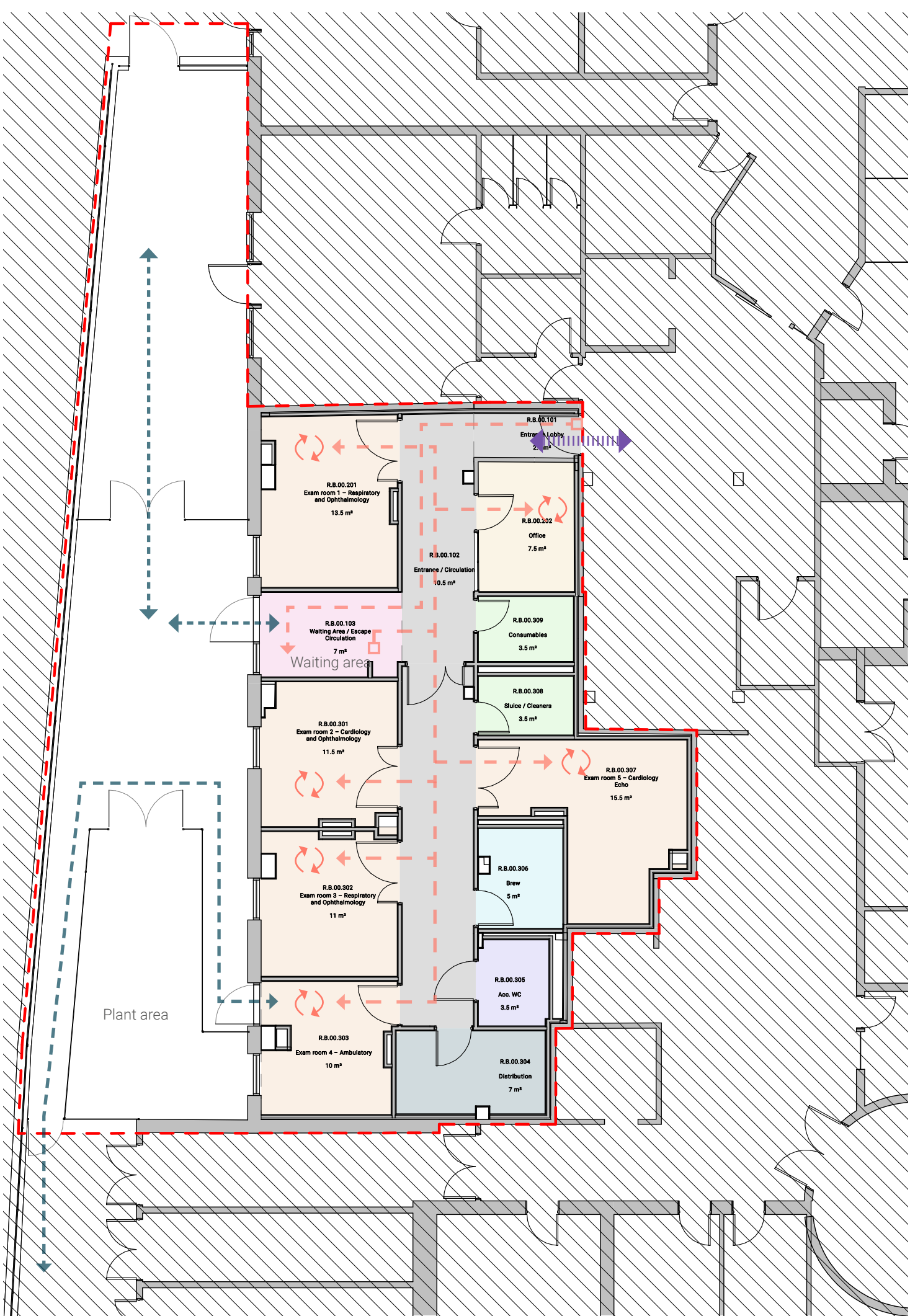
- Acc. WC
- Brew
- Circulation
- Consultation Room
- Office
- Plant
- Store
- Waiting

Access/Egress to and from adjoining existing buildings.

Emergency exit

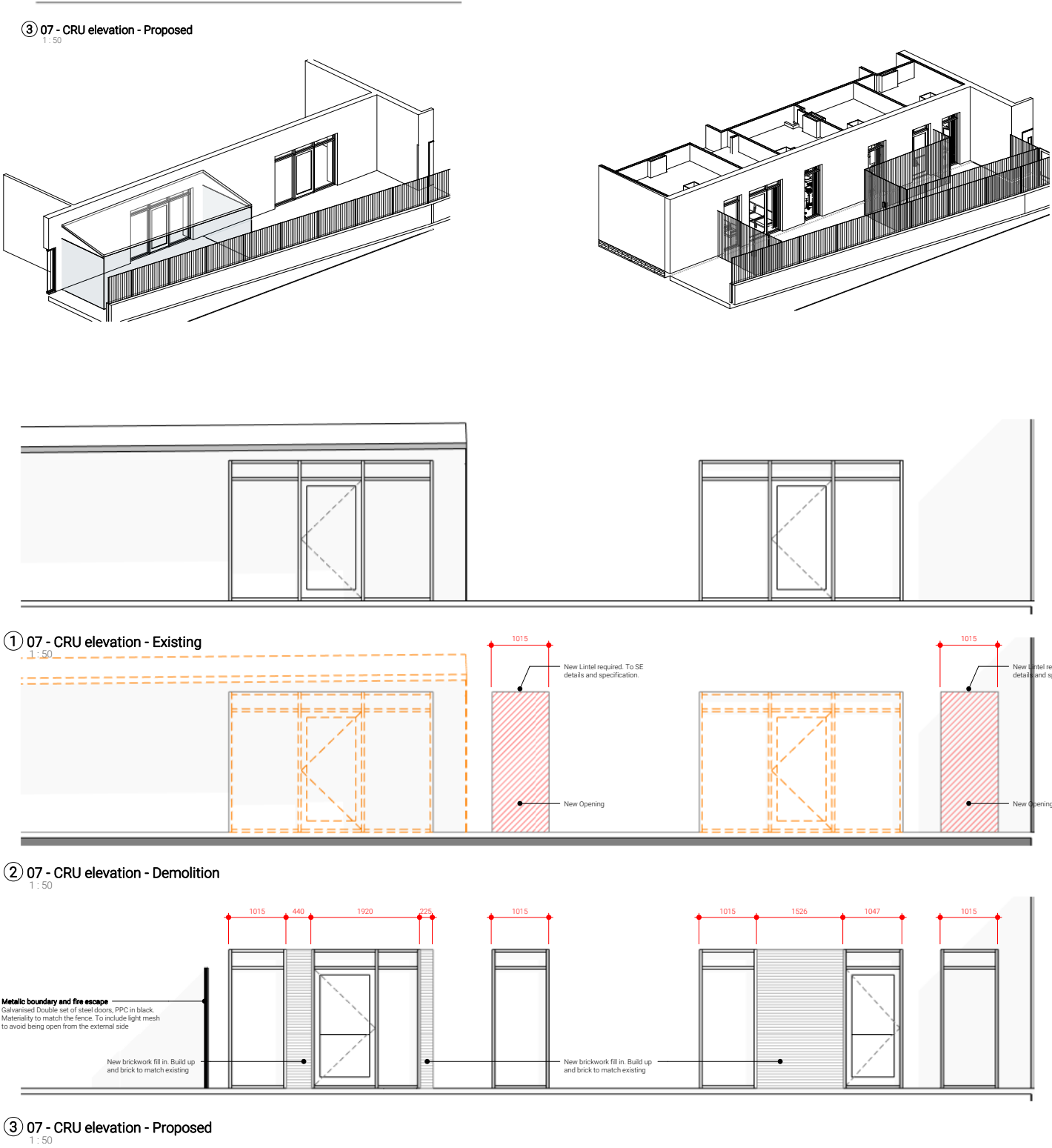
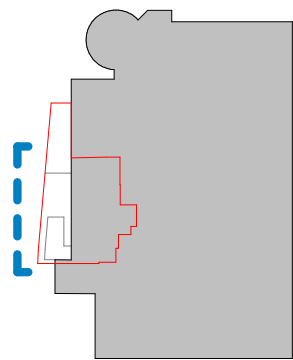
Main Patient route

End of patient route - consultation room. Exit through the same department entrance



04 / Proposed Design

Existing and proposed elevation - Cardio Respiratory Unit

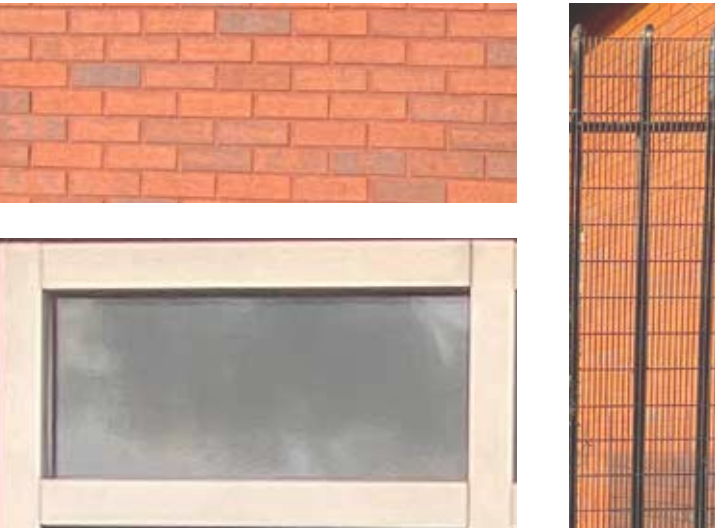


CRU - Proposed Elevation:

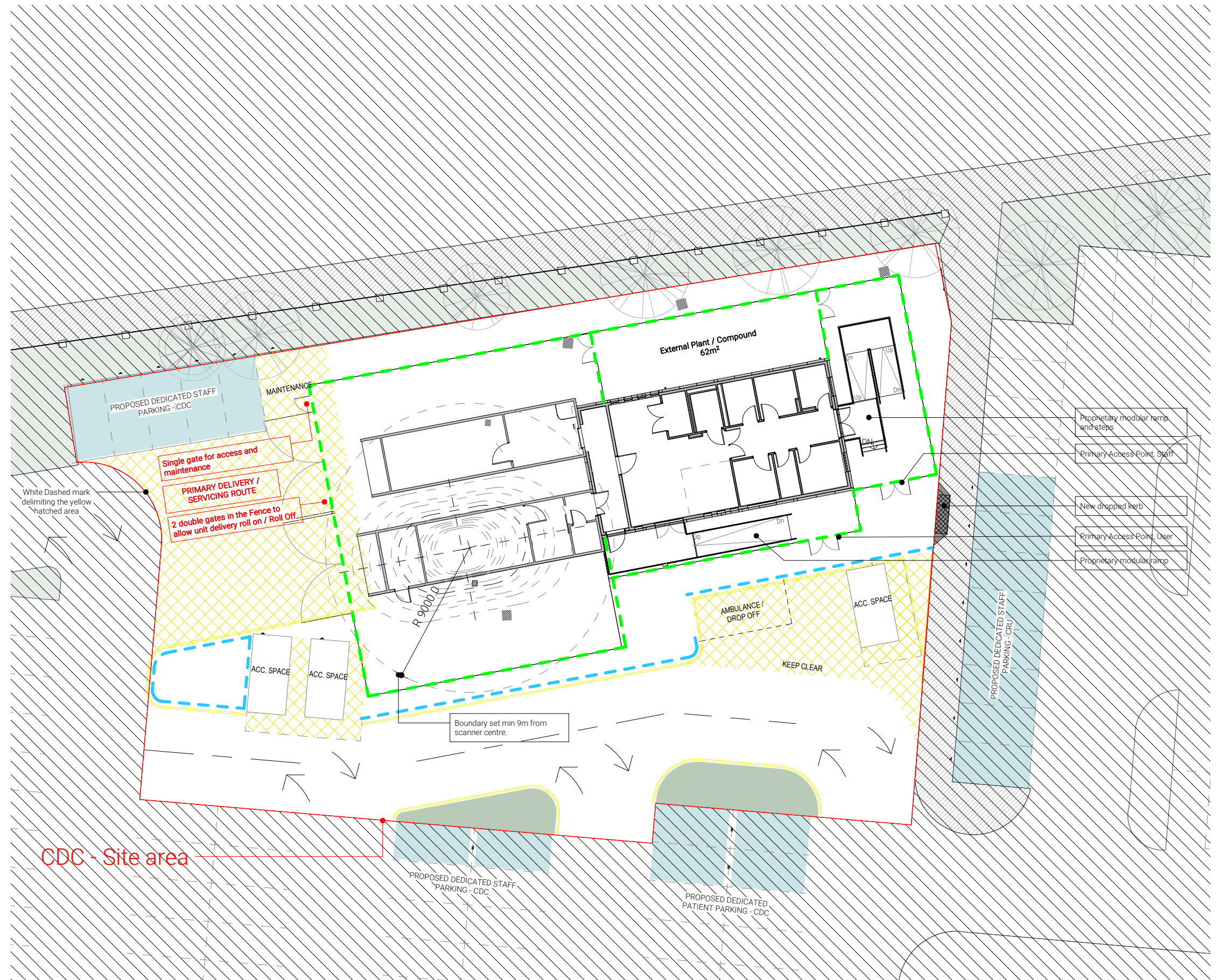
The proposed development involves minor alterations to the current facade. New openings will replicate the existing materials used in the building, comprising light grey aluminium frame openings and red brickwork.

These changes are designed to introduce natural light into the consultation rooms and facilitate the establishment of new fire evacuation routes. Additionally, an external plant room will be enclosed with a metal structure that matches the existing aesthetic, featuring vertical metal flat profiles at 100mm intervals, complemented by a black PPC mesh securely affixed to them.

Materiality



To facilitate the timely delivery of MRI and CT scanners to the site, The proposal is to utilize 2 relocatable temporary modular units for these items, whilst the design of the support hub is aligned with modern construction methods via modular construction. This approach offers cost and time efficiency while maintaining a contemporary aesthetic that complements the surrounding environment.

 Proposed Site

05 / Proposed Design

Proposed GA Plan - External CDC Unit

Internal Floor Layouts:

The internal floor layouts have been meticulously designed to ensure efficiency and a heightened sense of privacy, with particular consideration for patient comfort.

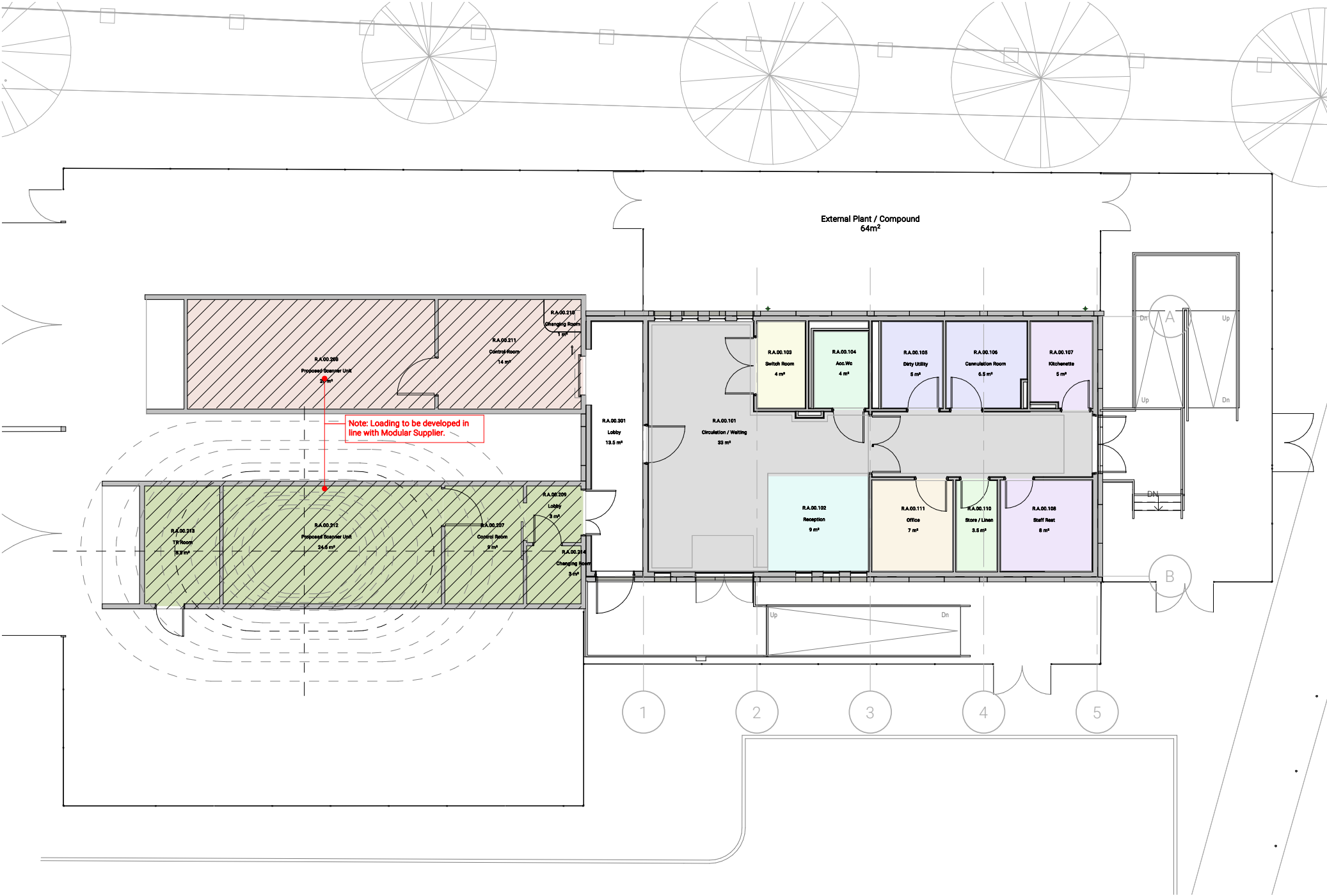
Patient Access:

The primary point of patient access will be located on the southern side of the development. This entrance will utilize an existing route to seamlessly guide patients toward the proposed extension. Additionally, a side entrance will be designated for staff use. On the northern part of the premises, an external plant room area will be allocated, while the CT and MRI facilities will be situated to the west of the proposed site. To facilitate access and maintenance for these units, we have planned for the installation of two double gates. These gates will serve the dual purpose of allowing for the removal and replacement of units and providing a pedestrian entrance.

Internal Spaces:

Within the modular building, a range of rooms has been strategically planned to support the core functions of the MRI and CT facilities. These spaces include ancillary support areas, a designated dirty utility room, a cannulation room, a storage area, and an office.

In addition, a staff area has been incorporated, complete with a kitchenette and a dedicated rest room for the comfort and convenience of the staff members.



By Department Legend

Amenities	Scanner Unit
Ancillary	Scanner Unit 2
Circulation	Store
Office	Switch room
Reception	WC

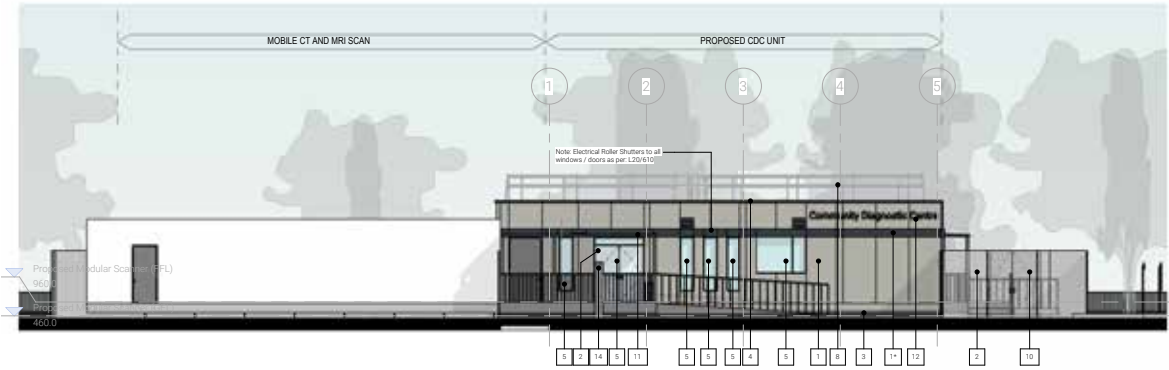
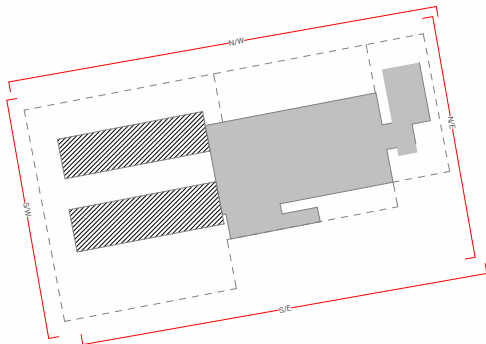
05 / Proposed Design

Proposed CDC elevations

Materiality

The proposed material choices are geared towards achieving a modern aesthetic for the project. We plan to achieve this by combining modular construction techniques with insulated panels in two distinct colours: RAL 7038 and RAL 7016. These panels will be vertically oriented with and horizontal band and thoughtfully coordinated with window placements.

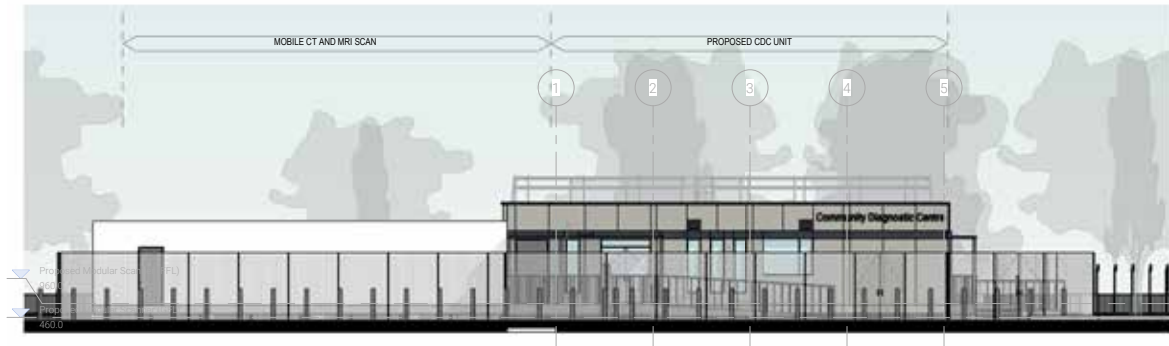
The windows themselves will be a striking dark grey, deliberately chosen to create a visual contrast within the design. They will also be equipped with integrated roller shutters to improve the security of the development.



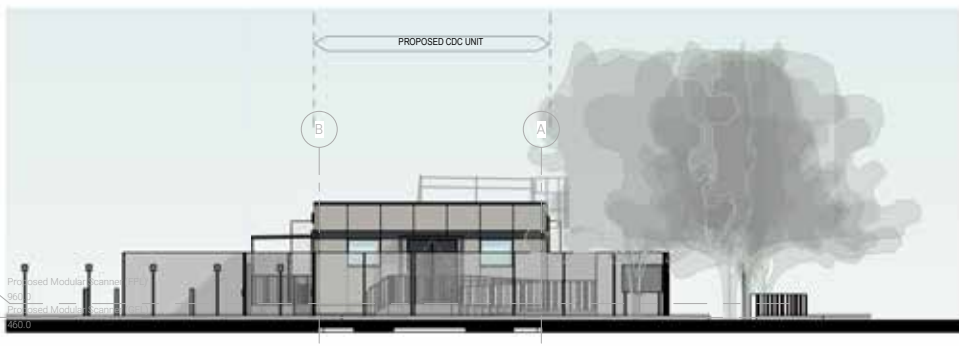
07 - S/E Elevation
1:100



07 - N/E Elevation
1:100



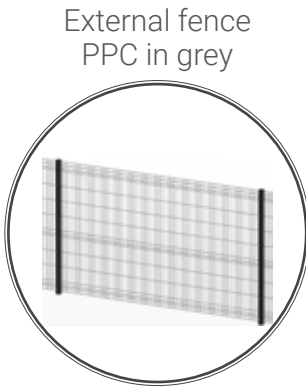
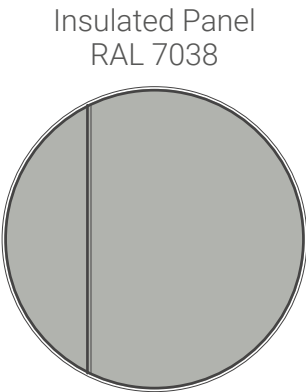
07 - S/E Elevation - External
1:100



07 - N/E Elevation - External
1:100

MATERIAL KEY

- Facade Materials**
- 1 . Europanel F5 Extra. Colour: RAL 7038
 - 1*. Recessed panel in RAL 7016
 - 2. Railing. Vertical spindles at 99mm separation RAL 7016
Top handrail in dark grey PPC RAL 7016
 - 3. Metal flashing, colour to match the coping
 - 4. Aluminium coping in RAL 7016
 - 5. Aluminium Framed Translucent Glazed opening
Frame Colour: RAL 7016
 - 6. Aluminium Framed Obscured Glazed Window / Door
Frame Colour: RAL 7016
 - 7. External aluminium Double/ single Door
Colour RAL 7016
 - 8. Free standing roof guardrail
 - 9. Access ladder
 - 10. 2.4m High Stripe Mesh Security PPC in grey colour
 - 11. PPC Aluminium Canopy RAL 7016
 - 12. Aluminium signage in RAL 7016
 - 13. Shroud to electrical roller shutters - to match Recessed panel in RAL 7016
 - 14. Podium for intercom, swipe card and key box



Indicative materials and colours. Subject to Trust approval and subcontractor indications and recommendations

05 / Proposed Design

Proposed CDC elevations

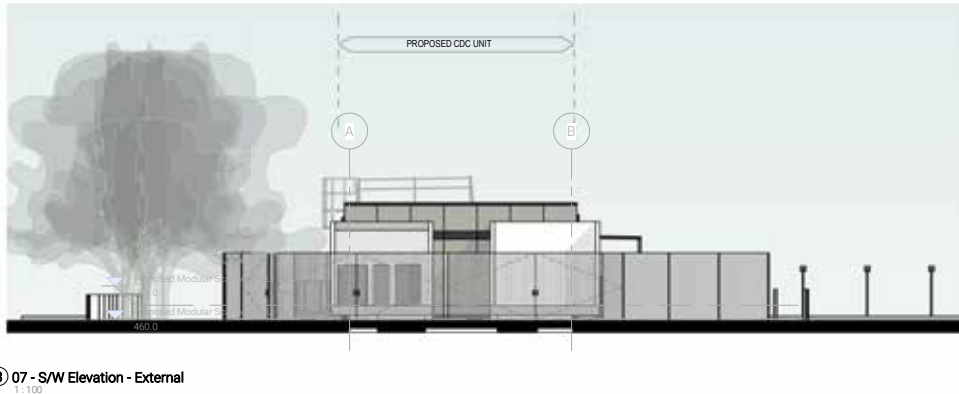
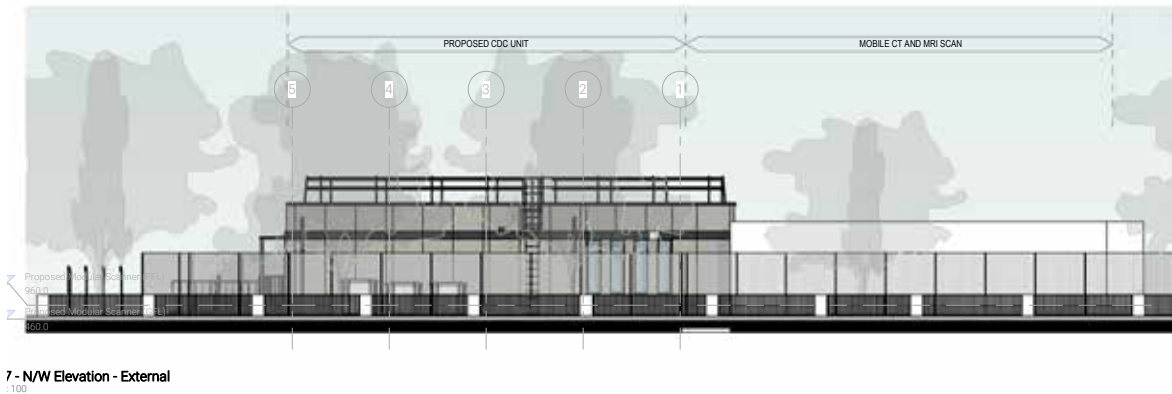
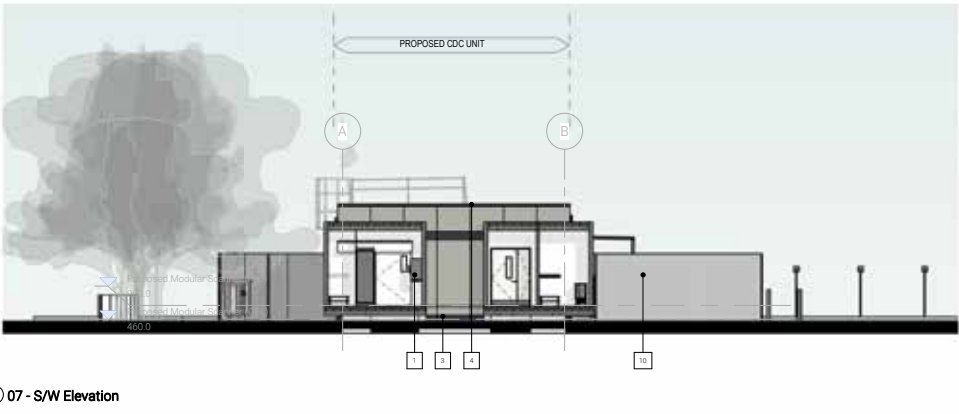
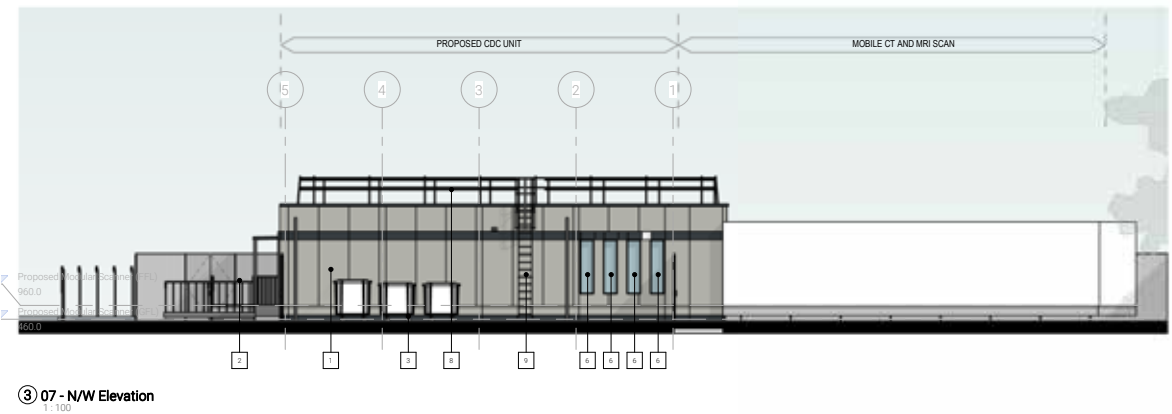
Materiality - External elements

To ensure accessibility for all types of patients, the proposal incorporates proprietary ramps. These ramps will play a vital role in accommodating the elevation change required to align the finished floor level with that of the MRI and CT Mobile units.

Externally, the project will be marked by road markings and strategically placed bollards, clearly defining the boundaries and contributing to a cohesive and robust overall design.

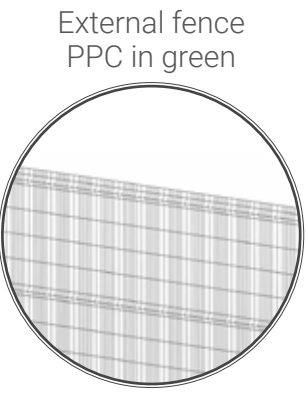
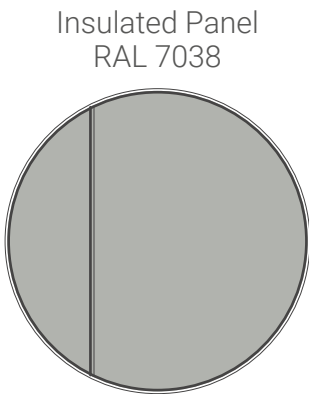
We are also recommending the installation of a 2.4-meter-high Stripe Mesh Security fence with 3-meter-wide bays. This fence will be constructed from galvanized steel with a PPC green finish. This choice harmonizes with the design of the neighbouring primary school's fence, ensuring visual continuity in the surrounding environment.

While our intention is to preserve the existing trees to the north, we will need to remove the small shrubs and two trees within the parking area to make way for the proposed development.



MATERIAL KEY

- Facade Materials**
- 1 . Europanel F5 Extra. Colour: RAL 7038
 - 1*. Recessed panel in RAL 7016
 - 2. Railing. Vertical spindles at 99mm separation RAL 7016
Top handrail in dark grey PPC RAL 7016
 - 3. Metal flashing, colour to match the coping
 - 4. Aluminium coping in RAL 7016
 - 5. Aluminium Framed Translucent Glazed opening
Frame Colour: RAL 7016
 - 6. Aluminium Framed Obscured Glazed Window / Door
Frame Colour: RAL 7016
 - 7. External aluminium Double/ single Door
Colour RAL 7016
 - 8. Free standing roof guardrail
 - 9. Access ladder
 - 10. 2.4m High Stripe Mesh Security PPC in grey colour
 - 11. PPC Aluminium Canopy RAL 7016
 - 12. Aluminium signage in RAL 7016
 - 13. Shroud to electrical roller shutters - to match Recessed panel in RAL 7016
 - 14. Podium for intercom, swipe card and key box



Indicative materials and colours. Subject to Trust approval and subcontractor indications and recommendations

APPENDIX



www.day-architectural.com

Studio 1
Lancaster Buildings
77 Deansgate
Manchester
M3 2BW
0161 8349703