

04 Proposed New Building Sections

The roof height is dictated by having a clear 5m high main hall measured internally, for PE, dance, performance and other school and community activities.

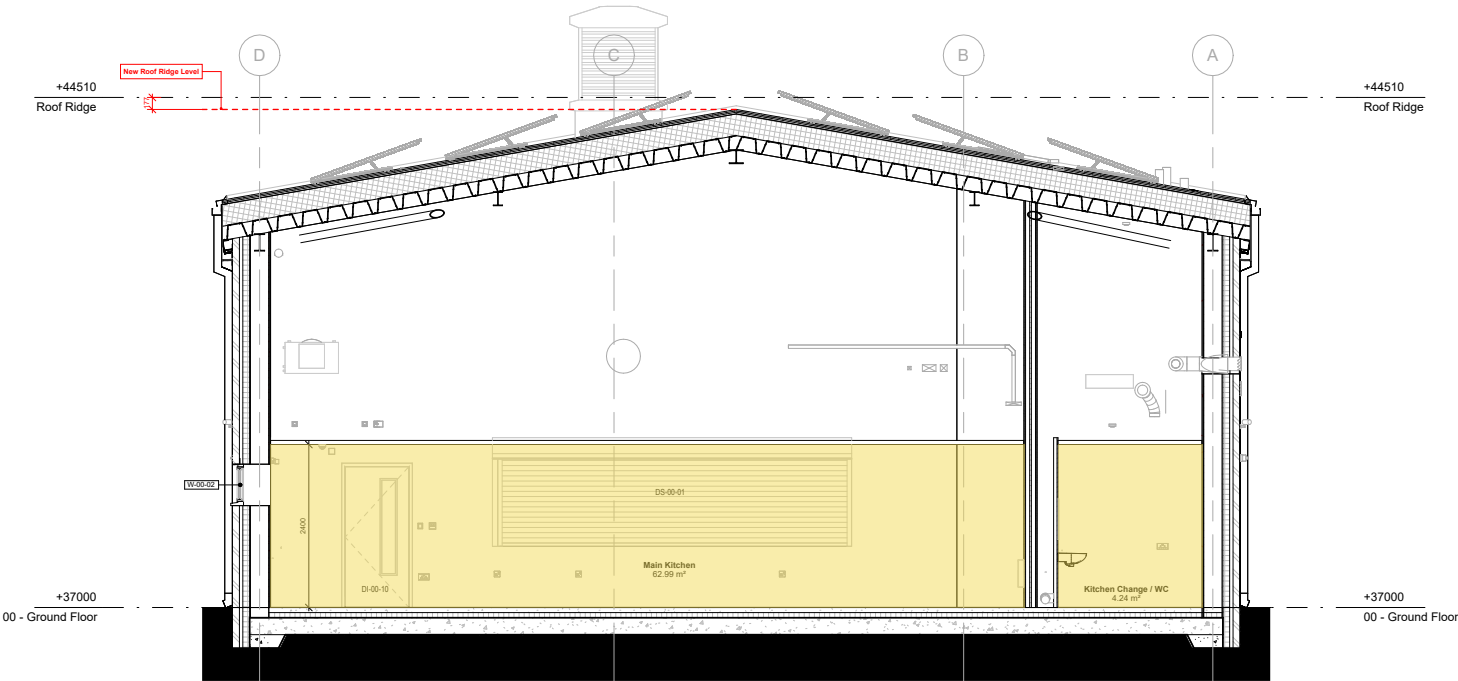
The roof continues over the whole building to simplify the form and appearance, and reduce the number of junctions in the envelope.

This also provides generous MEP (mechanical, electrical and plumbing) voids above the kitchen and stores.

The overhang offers sun protection for the internal spaces, and provides a covered outdoor dining, learning or social space.

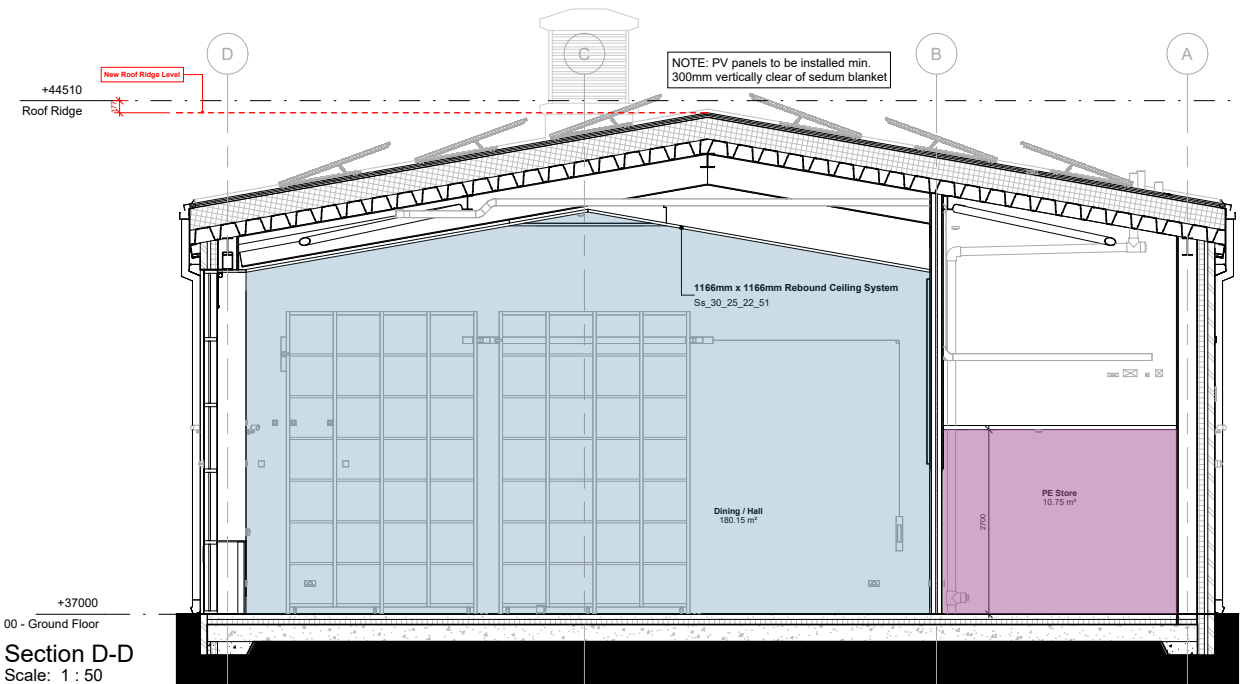
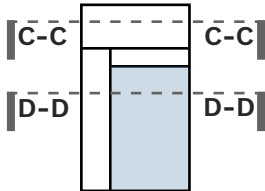
The PV panel sizes, layout and angles shown here are indicative, and will be developed further with a PV specialist.

The sedum roof plants will be specially selected to suit shaded areas, ideal for locating below and between the PV panels.



Section C-C
Scale: 1 : 50

- Dining / Hall
- Kitchen Facilities
- Servery
- Sanitary & Plant
- Storage
- Circulation
- Outdoor Dining



Section D-D
Scale: 1 : 50

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04 Proposed New Building Elevations

The material palette for the proposed Canteen aspires to echo the existing building in a simpler contemporary way. The proposed material combinations should compliment each other and respect the existing site. There is an opportunity for an artwork project involving the school community, inspired by the mosaic located on the existing buildings facade.

The below images hint at elevational opportunities:



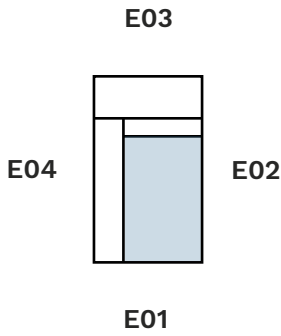
St Mary's Existing School Mosaic



Ysgol Pen Rhos Precedent



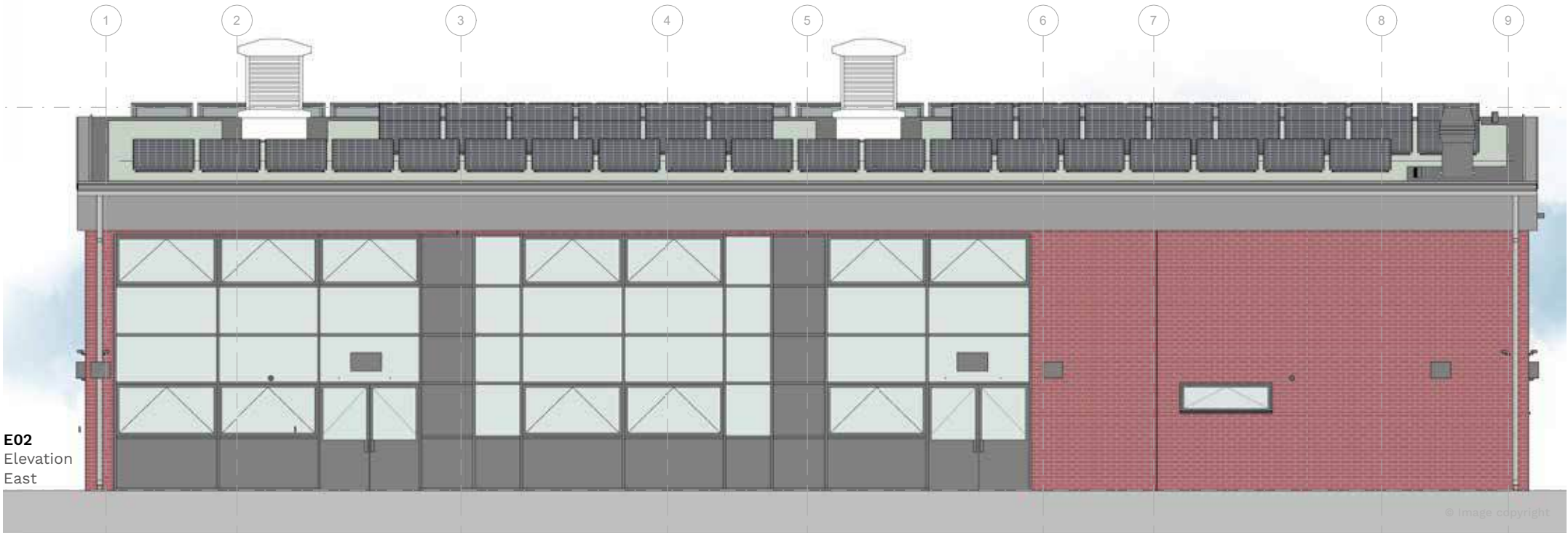
Brick Swatch Potential Brick Option for the Canteen



E01 Entrance Elevation South

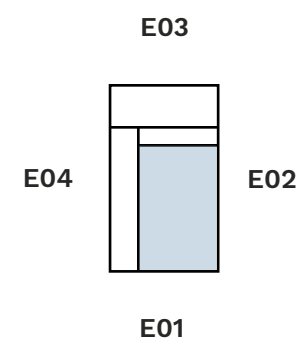
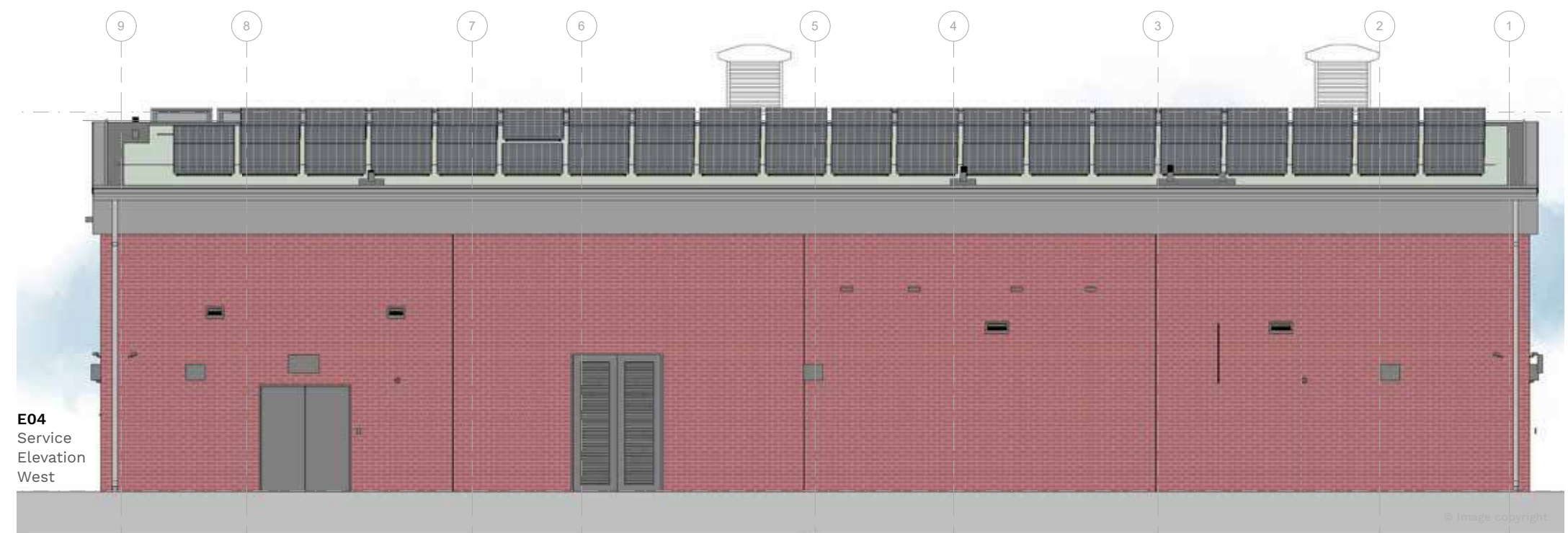


E02 Elevation East



04 Proposed New Building Elevations

Within the facing brick, there are opportunities for incorporating habitat boxes for bees, birds or bats. The exact locations are to be confirmed in conjunction with an ecologist. Some examples are shown below, however they'll be finished with the same bricks as the building, to match in colour and texture.



04 Proposed New Building

Artist's Impressions of the Interior - Dining Mode

Every school day, the main space in the building will be used as a dining area for pupils.

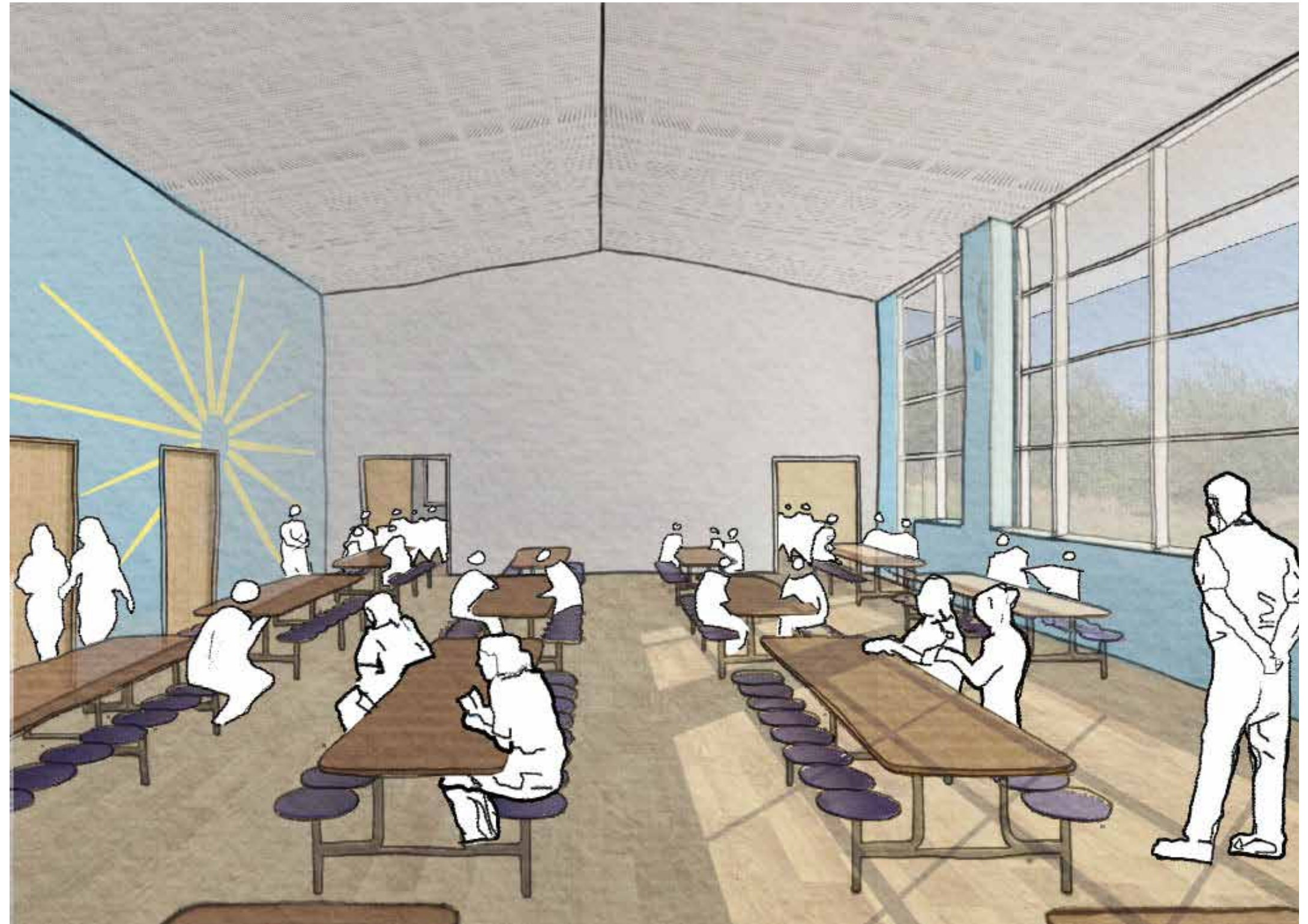
This allows them to eat and socialise in a large, light space, with views across the school grounds.

This image is included to give a sense of the size and function of the space. All colours, artwork and furniture are indicative only. These will be chosen during further consultation with the school.

Furniture will be selected so that it suits the ages and sizes of pupils, and allows access for those with mobility difficulties.

The chosen furniture should be able to be brought out and put away quickly and safely, to maximise the use of the hall before and after mealtimes.

The furniture will include points for recycling and food-waste collection, encouraging pupils to learn about, and participate in, caring for their wider world.



04 Proposed New Building

Artist's Impressions of the Interior - Performance Mode

The height of the space has been increased from the dining-only use of the previous planning application, to the taller space suitable for PE.

This image indicates a performance or collective worship layout, with a projection on the end wall.

The space could also be used for community groups by arrangement, outside school hours. It would be secured and accessed independently from the main school building, with its own toilet facilities.

As with the image to the left, all colours, artwork and furniture are indicative, and will be chosen at a later date.



05

Proposed Landscape

Previously Consented Proposal

A full Planning application was approved (with conditions) in December 2018. The approved plan is shown adjacent.

The design team took this plan as a starting point to develop the designs further, ensuring that the following was carefully considered:

- † Site topography;
- † Delivery, refuse and fire tender access;
- † BB99 area requirements for the 420no. students;
- † Site security;
- † Retaining existing vegetation and trees on site;
- † Location of external plant needed;
- † Integration of the social spaces within the site to ensure a cohesive design approach which ensures the proposed canteen sits comfortably within the landscape.



Previously consented scheme (December 2018). Extract from drawing 'NPS-00-00-DR-A-(00)-003 General Arrangement - Proposed Site Plan' P2.

05 Proposed Landscape Masterplan Design Vision

The external environment of a school should be designed to maximise the potential for play, a fundamental role in the curriculum.

A well-designed landscape can provide both aesthetic and environmental benefits to a school; creating a welcoming environment, providing areas for pupils, staff, and visitors to work and play, and providing ecological enhancement. Furthermore, well-designed, and well-maintained school grounds play a fundamental role in the holistic development of pupils intellectually, physically, emotionally, and socially.

The landscape can enable a broad curriculum to be delivered by providing a range of resources and places for formal and informal learning. The design should create a multifunctional resource capable of eliciting interest, excitement, inspiration, motivation, and calmness for every child, whether alone or in groups, and irrespective of whether they are a child with or without additional learning needs.

The landscape should comply with the relevant building regulations and design guidance along with the specific site brief.



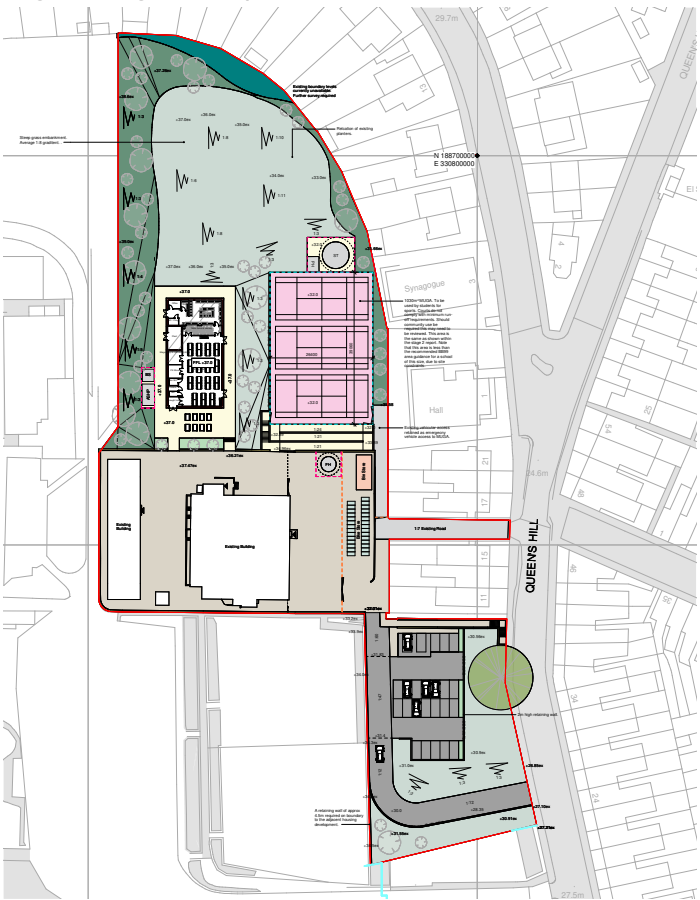
Masterplan Design Development

We developed the design of the site from the previously consented scheme which we inherited, through stage 2 and into our final proposed landscape design. This design development is presented opposite.

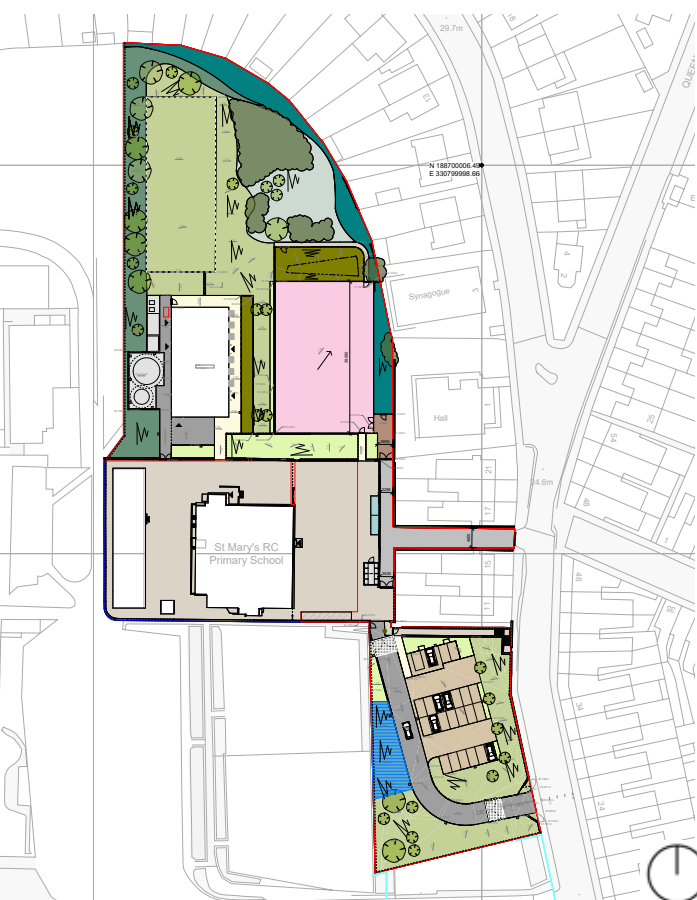
Previously Consented Scheme



Stage 2 Design Development



Proposed Landscape Design



Issued in February 2023

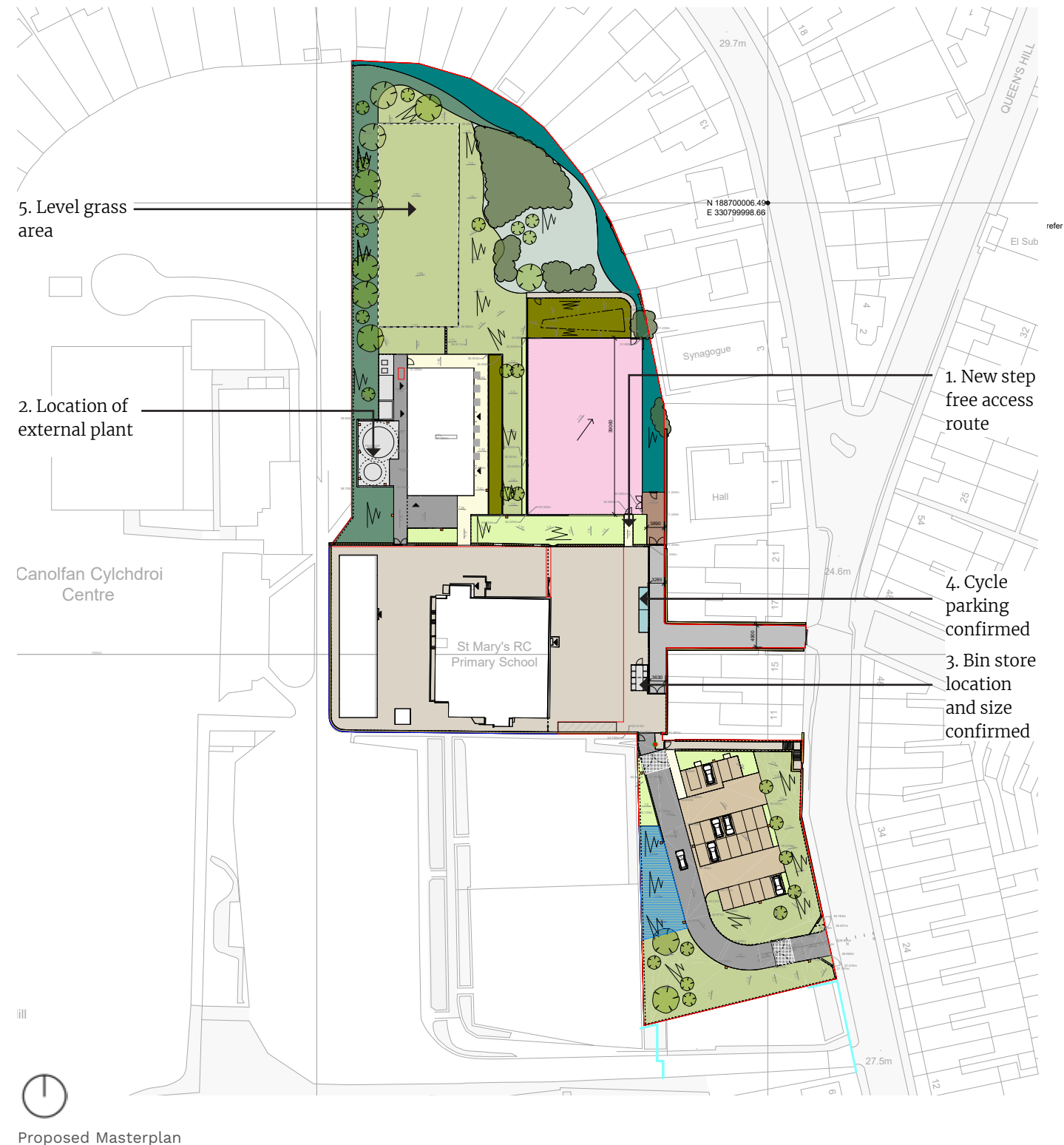
05 Proposed Landscape

Proposed Landscape Masterplan

Proposed Landscape Masterplan

This page shows the design that has developed since the previously consented scheme, based on further engagement with the client and design team. We have addressed a series of unresolved issue from stage 2 including:

1. Access to MUGA. In the previously consented scheme, the MUGA was connected to the existing main building by both a set of steps and two flights of ramps joint by a landing. However, a proposed sewer-upgrade is intended to be routed through this area of the proposed ramp, therefore any construction works crossing this had to be reconsidered. Due to the existing steep site, the initial access to the dining hall would not be level, therefore any people needing assistance to navigate the steep slopes would be provided with this assistance for the entire site. We have therefore introduced a step free access route, from the existing hard play area to the MUGA. This allows a full step-free access between the proposed hall, MUGA and existing building. Additionally, we have added a more direct stepped route from the dining hall level to the MUGA. This has significantly reduced the amount of retaining wall and works over the sewer easement.
2. The location and access requirements to external plant equipment has been resolved, ensuring that fire tender can access the sprinkler tank and fire hydrant.
3. The requirements for the bin store have been resolved. Although this project is below the area threshold for a BREEAM assessment, we have followed the BREEAM guidance on recyclable waste, calculating based on the footprint of the school we would need 12 sqm of storage for recyclable and food waste from the dining hall. We added the school current bin requirements of 3 large commercial bins to this space, plus an additional bin for future capacity. In total our bin store is now 21sqm and positioned in a location in which the refuse vehicles can access.
4. Cycle parking requirements have been developed along with the client and planning consultant. More detail can be found on the parking provision pages of this report.
5. A level grass play space of the same area as the consented scheme has been added to the existing lawned area. This provides a level grass area for sports and other play.



05 Proposed Landscape
Landscape Principles



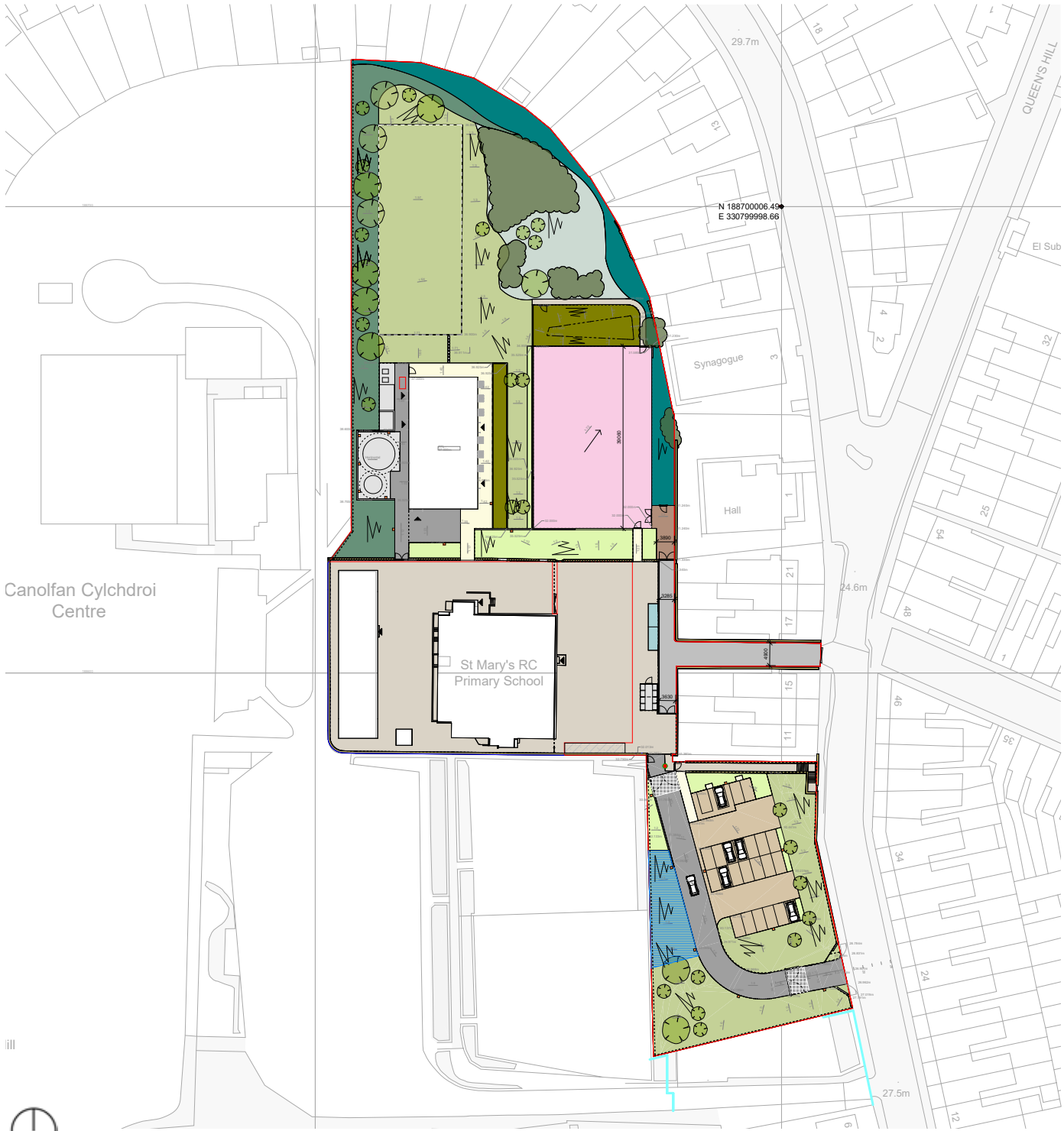
Masterplan

The landscape will connect with and respond to the existing school building and proposed new canteen creating a cohesive and positive environment. The design will introduce new areas for outdoor teaching, sport, play, socialising, dining, and relaxation. New landscape areas and features will sit sensitively within the site and will be robust in nature and of a high aesthetic quality. Careful consideration of maintenance and material longevity will influence the choice of hard and soft landscape materials.

External student learning and play spaces

The masterplan incorporates a range of areas for students to engage with. These include:

- † The existing forest school/habitat area will be retained , facilitating of a range of nature based learning. Additionally, proposed shrub planting around the site boundary will help to create a natural buffer to the surrounding buildings.
- † Proposed macadam Multi Use Games Area (MUGA) for teaching of formal PE and informal use during break / lunch times. This area also doubles up as a muster point in emergencies.
- † Existing external playground to be retained for social play and outdoor learning.
- † Proposed east facing external dining area, protected by the canteen’s canopy.
- † Level grass area to enjoy sports and games activities, along with banked lawns for play.
- † Tiered lawn between the dining hall and MUGA for outdoor learning and recreation.



Proposed Masterplan

05 Proposed Landscape Site Circulation

Access

Pedestrian access

The existing pedestrian site access via a series of steps will be retained, along with the existing 1:7 gradient path from Queen's Hill. A new part M complaint 'level' path from Queen's Hill will not be provided as part of this canteen extension proposal, due to the site's physical constraints. People who are unable to use the steps or the 1:7 existing route may be dropped off in the car park for step-free access on the rest of their route – see 'vehicle access' below.

Cycle access

Cycle access into the site is provided by a new steep path from the new access point at the south of the site from Queens Hill. This path has a 1:7 gradient and is not Part M compliant, but provides an alternative option compared to the existing road and existing stepped access.

Vehicle access

All vehicles will enter the site via the new access route to the south. This will be a steep 1:7 road in parts to accommodate the 5m level change between Queen's Hill and the existing site levels around the buildings.

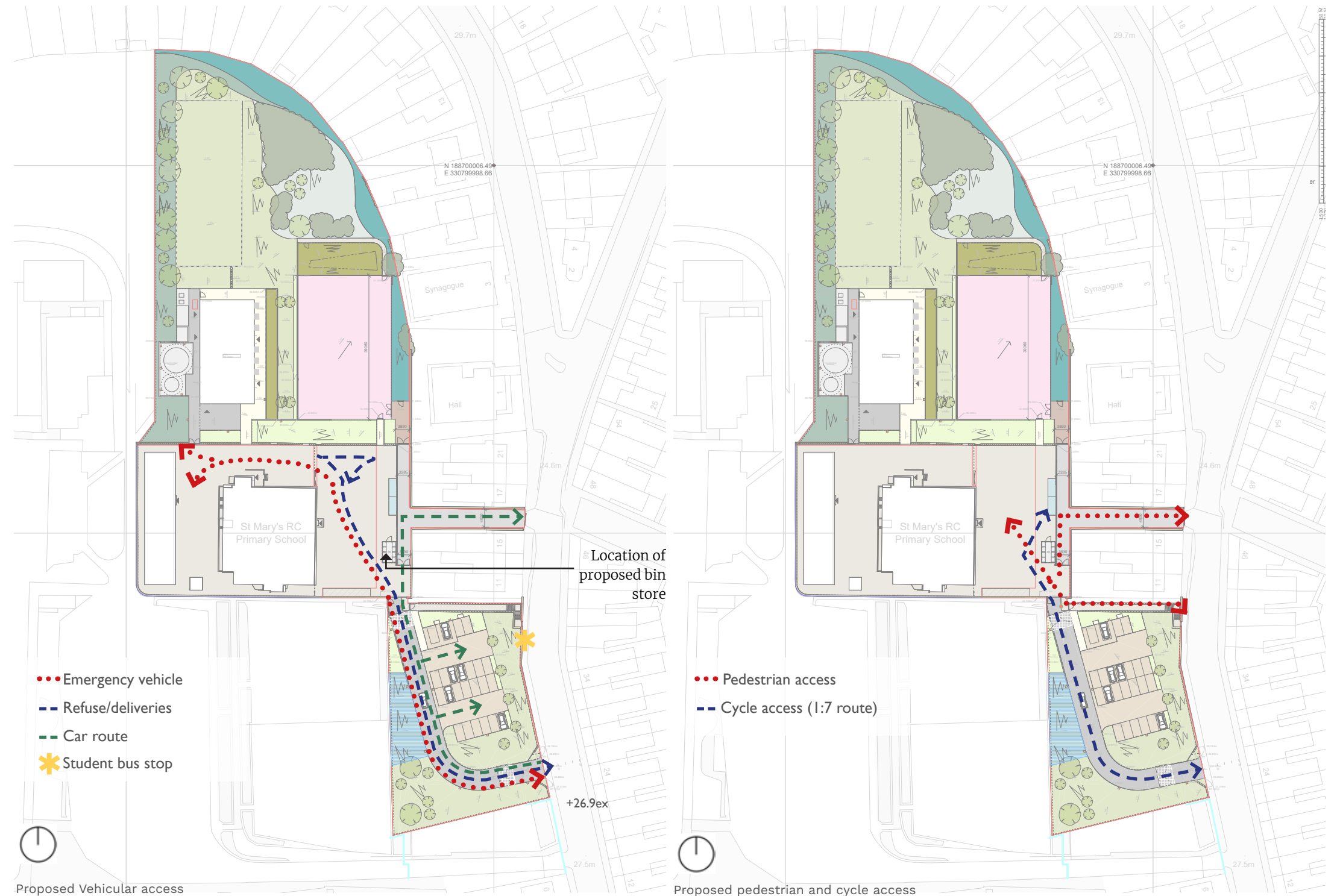
A new car park area is provided at the top of the access road. Cars will follow a one way system and exit down the 1:7 existing vehicular road back down to Queen's Hill. Cars wishing to exit down the 1:7 road will have to wait for the school to open the gates, ensuring that pedestrian and vehicles remain separated.

Refuse vehicles will access the site out of school hours. This will be managed by the school. Refuse vehicles will drive directly onto the existing playground where there is sufficient room to provide a turning head. The bin store is located at least 10m away from any building. Refuse vehicles will exit the site via the south vehicular exit.

Fire tender access is provided to all buildings, with an adequate turning head within the playground. The assumed muster point will be the MUGA, which ensures pupils will be away from the fire tender on arrival. Fire tender vehicles exit the site via the south vehicular exit.

Organised Transport

The existing bus stop for organised coach travel to the school will remain on Queen's Hill, close to the existing pedestrian stepped access to the school.



05 Proposed Landscape
Site Circulation

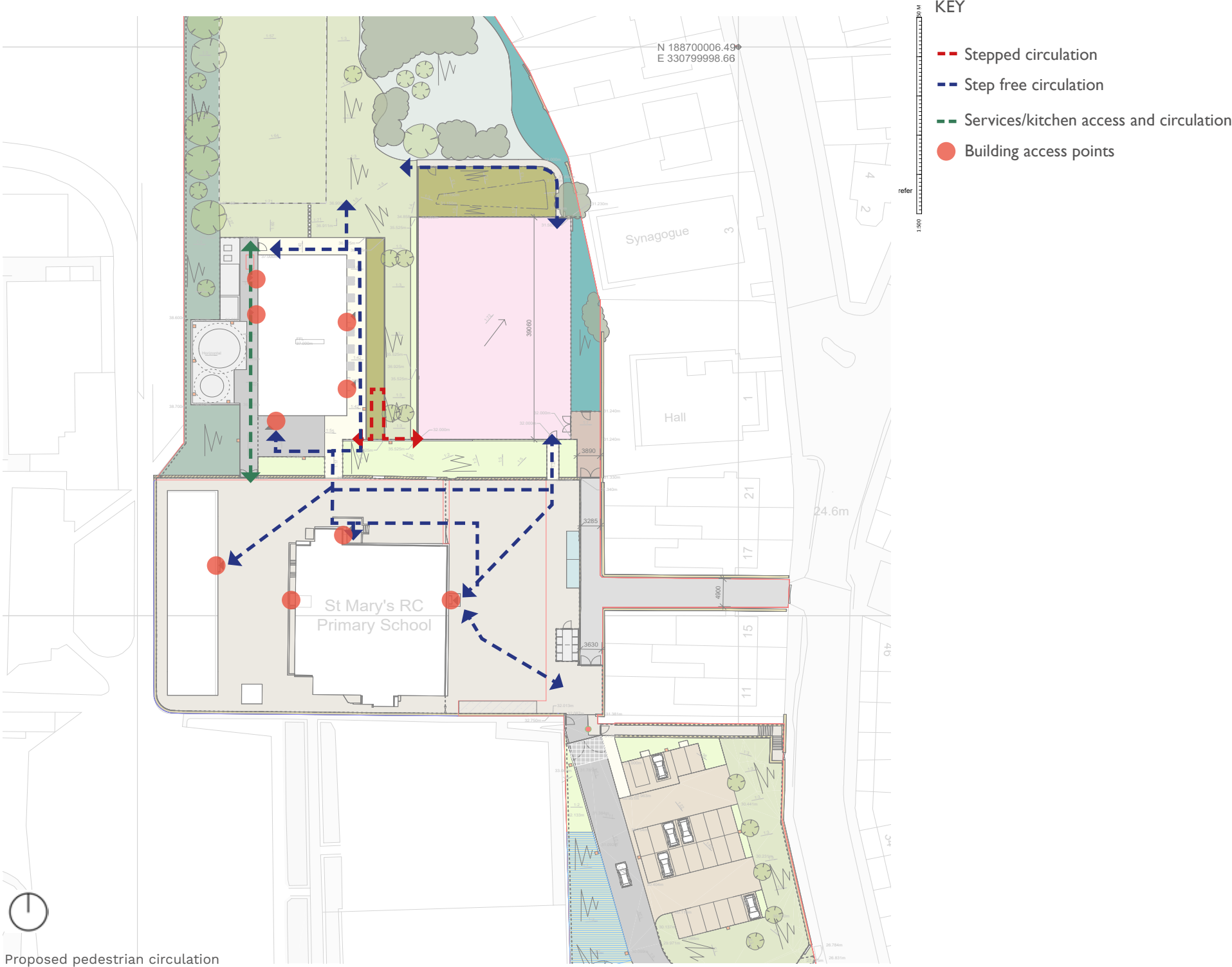
Movement and Circulation

The sites masterplan has been developed to provide easy circulation throughout the site. The majority of routes offer step free access, allowing pedestrian to easily travel between buildings and site facilities.

Services access is provided along the length of the external services area, allowing maintenance to be carried out to the fire hydrant, sprinkler tank, pump house, air source heat pump and battery storage.

The existing steep gradients of the hard landscape space around the main school building have been maintained as is. Nevertheless, all new pedestrian routes designed within the masterplan provide step free access, at the flattest achievable gradients.

There is 1 stepped access route on site, connecting the dining hall level with the MUGA level. This is in addition to the step free access to the south east of the MUGA.



05 Proposed Landscape
Site Security

Security and Safety

The site will be secured by new perimeter fencing where required. A new secure boundary line will be introduced to separate the vehicular access and car park from the rest of the site. Controlled access gates will be installed to the new secure line, with an intercom link to reception.

The vehicular gate on the proposed new road from Queen’s Hill will be closed during school drop off and collection time, while the pedestrian gates remain open. This prevents any cars from following the one way system and travelling out of the site via the 1:7 existing road whilst there is heavy pedestrian use of the area. This will create a safe environment for all pupils, parents/carers and staff at the busiest times of the school day.

Further assessment of the existing and proposed boundary treatments will be required at the next stage of the design process.



Proposed 2.4m weldmesh perimeter fencing

Additionally, proposed boundary planting along the Western edge of the site will create a soft buffer between the proposed housing development and the school site, further aiding site security.

Detail fencing layout refer to HLM drawing SMS-HLM-00-00-DR-L-25001 FENCING PLAN

Natural Surveillance

By placing the dining hall at a high level on the site, natural surveillance is created. Staff can be positioned outside the dining hall and look down to the level play area and MUGA with ease.



KEY

- Inner Secure - pupil areas.
- Outer boundary - visitors and vehicles.

Proposed Masterplan