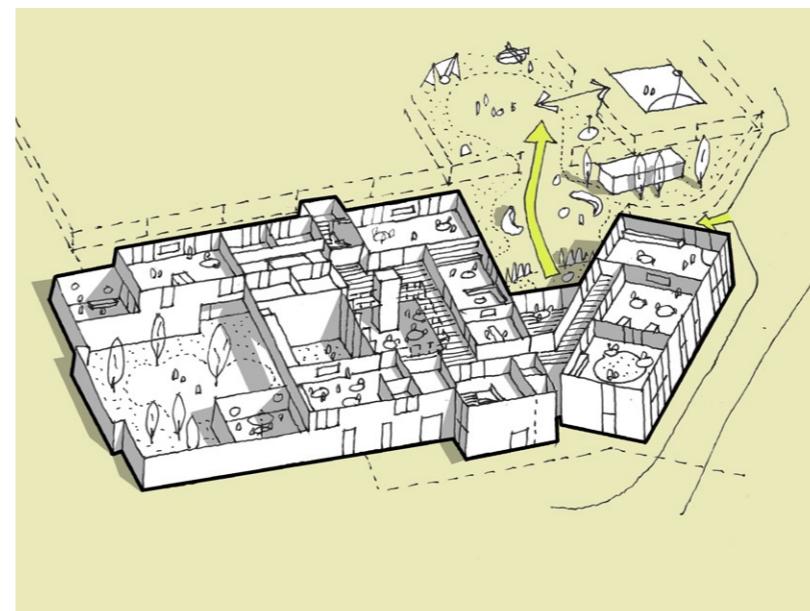




EARLY MASSING STUDIES



PREFERRED CONCEPT SOLUTION



Since the instigation of the project, a number of design ideas have been explored with the school and council members to consider how the existing building and its external spaces could be repurposed to meet the educational needs and vision of Meadow High School.

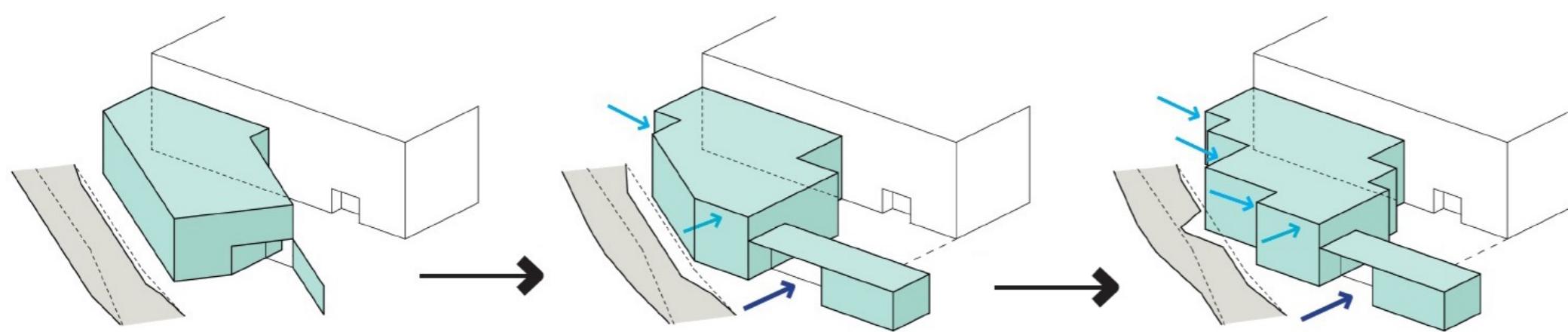
Early studies included looking at the best opportunities for extending the building to provide the required level of accommodation to BB104 standards.

It was agreed that extending the building towards the south of the existing building proved the most beneficial by increasing the connectivity of pupils to the external areas, but also allowing a cluster classrooms that efficiently concentrated circulation. Additionally, this allowed the classrooms to be retained at ground and first floor levels, minimising vertical travel for pupils who may have physical disabilities.

Preliminary massing studies/ ideas have been shared with the planning team and members of DfE at the instigation of RIBA Stage 2 for review and input.



EXTENSION OPTION APPRAISAL

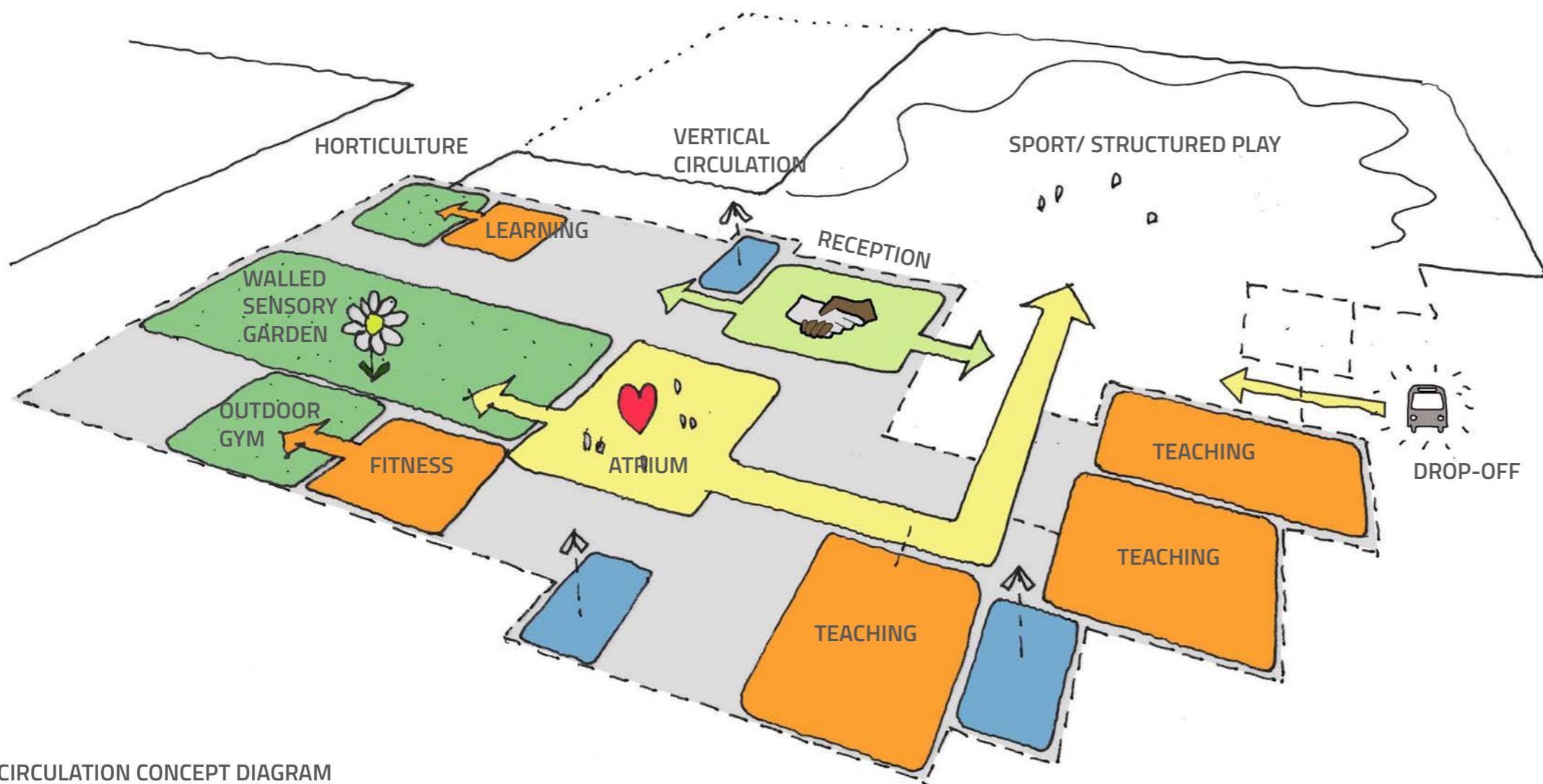


MASSING DEVELOPMENT SKETCHES

The extension design has also been developed in close consultation with the school team. The arrangement of learning spaces and how the extension connects to the refurbishment of the existing building has been a key consideration, and several ideas have been explored.

The extension has been designed to read - both in terms of its massing and materials - to feel related to the existing building.

As the existing entrance to the school is set back well within the site, the extension forms a new clear entrance for the school, controlling security lines whilst providing a welcoming front for the new school.



CIRCULATION CONCEPT DIAGRAM

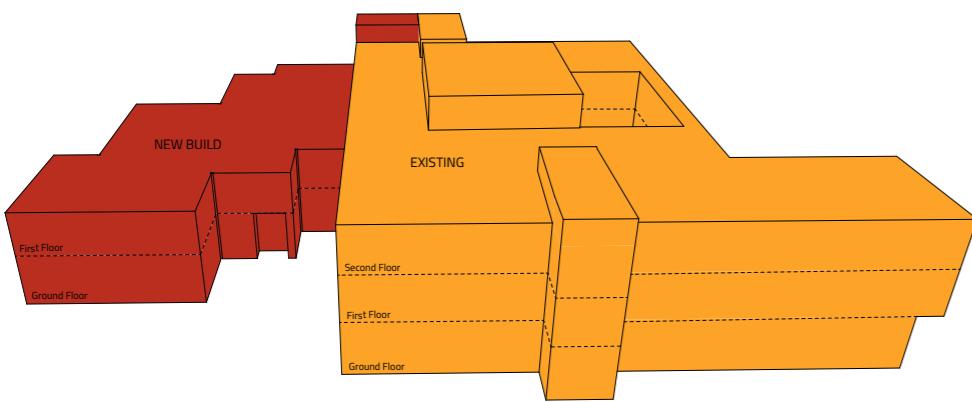
This diagram demonstrates how the new extension works with the atrium 'heart' of the existing building to provide a legible circulation route to the building.

The new extension allows the differentiation of a pupil entrance from the main reception and visitor entrance, easing movements at the start and end of the day when staff are busy accompanying pupils to their transport.

Additionally, the new extension 'opens up' to the adjacent structured play areas, forming a simple direct connection for pupils at break and lunch times.



MASSING IMAGE (SEEN FROM NORTH)



VOLUME STUDY

GIA FLOOR AREA OF EXISTING BUILDING = 1613M² APPROX
 GIA FLOOR AREA OF NEW EXTENSION = 622M² APPROX

VOLUME OF EXISTING BUILDING = 6430M³ APPROX
 VOLUME OF NEW EXTENSION = 2185M² APPROX

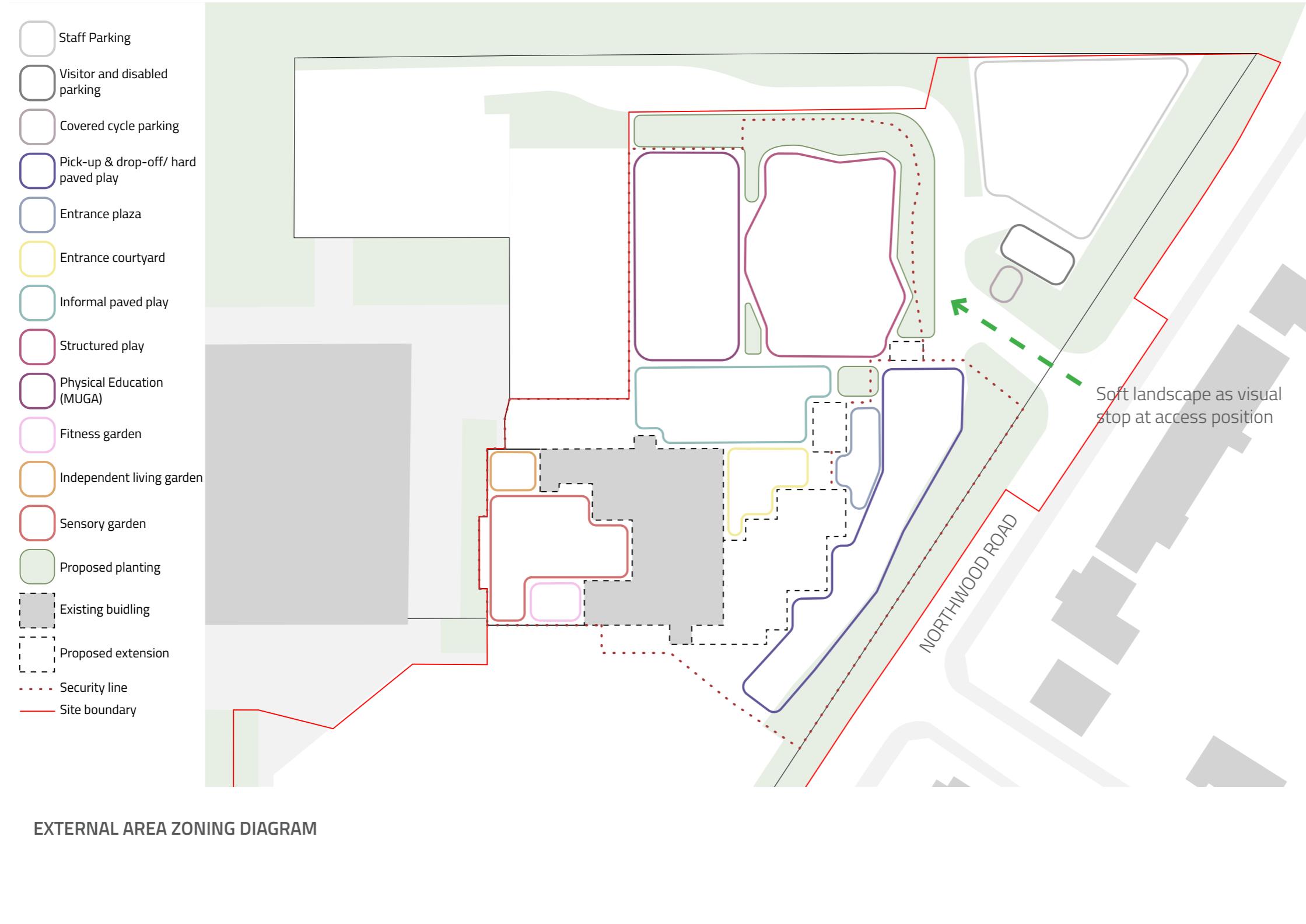
EXTENSION APPROX 34% VOLUMETRICALLY OF EXISTING BUILDING

The new extension has been designed to minimise its height and footprint relative to the existing building whilst providing the key aspects of the brief.

Storey heights are maintained to approximate the existing residential storey heights of the existing building.

The extension forms an entrance courtyard with the new building, clearly defining the new pupil entrance and the visitor entrance.

The form of the building is stepped to acknowledge the angle of Northwood Road adjacent, but the primary mass of the extension is at the junction with Ash Grove, between dwellings.



The external areas of the site have been efficiently planned to provide play and PE areas towards BB104 standards, but also to provide vehicle drop-off, parking and servicing.

At the new access point, new soft landscape has been introduced within the site to maintain the 'green' aspect along Northwood Road.

The new structured play area is bordered with new soft landscape to encourage habitat areas for pupil exploration.

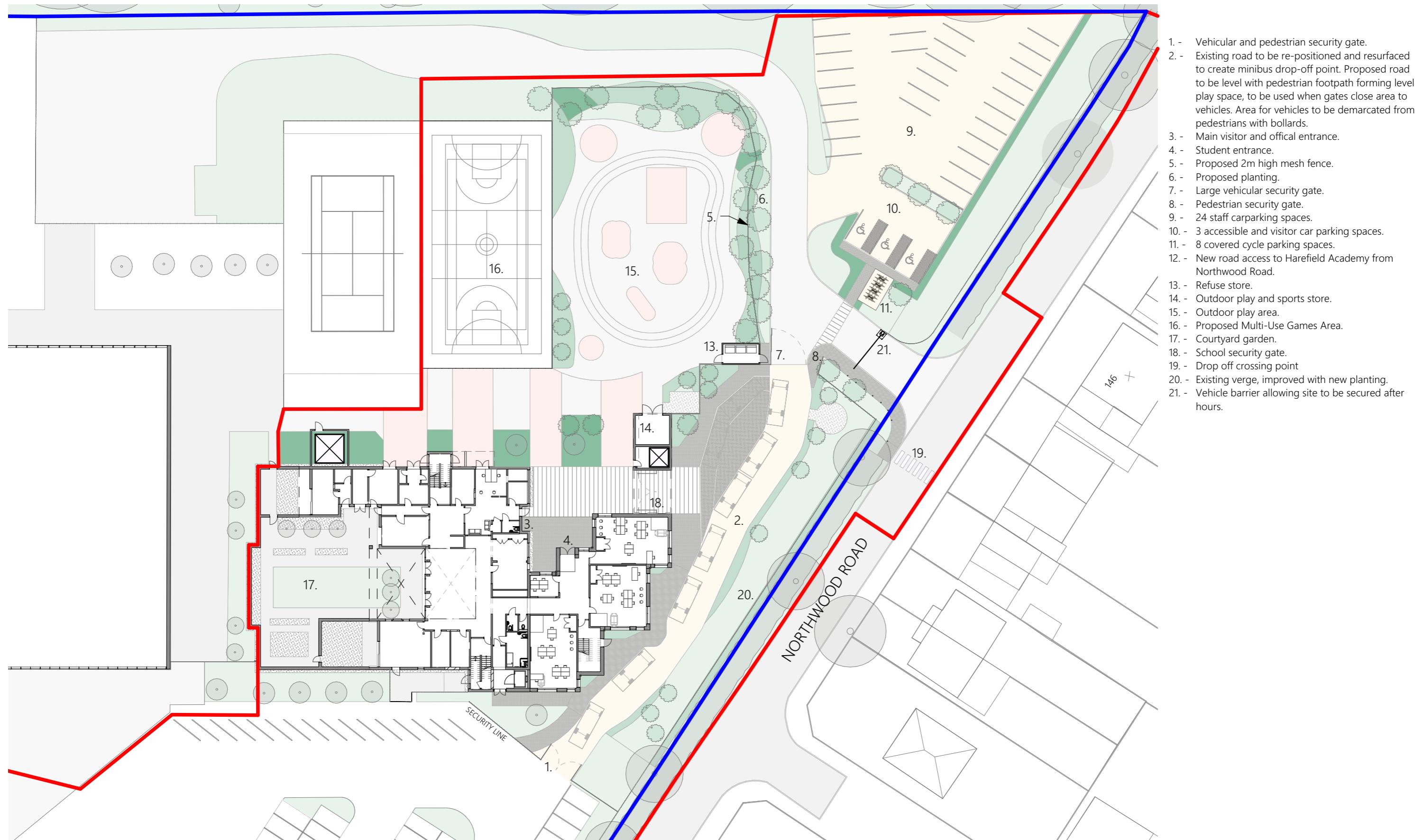
The rear walled gardens are given their own landscape characters to relate to the internal functions of the adjoining spaces.



AERIAL VIEW OF PROPOSED DEVELOPMENT FROM THE WEST

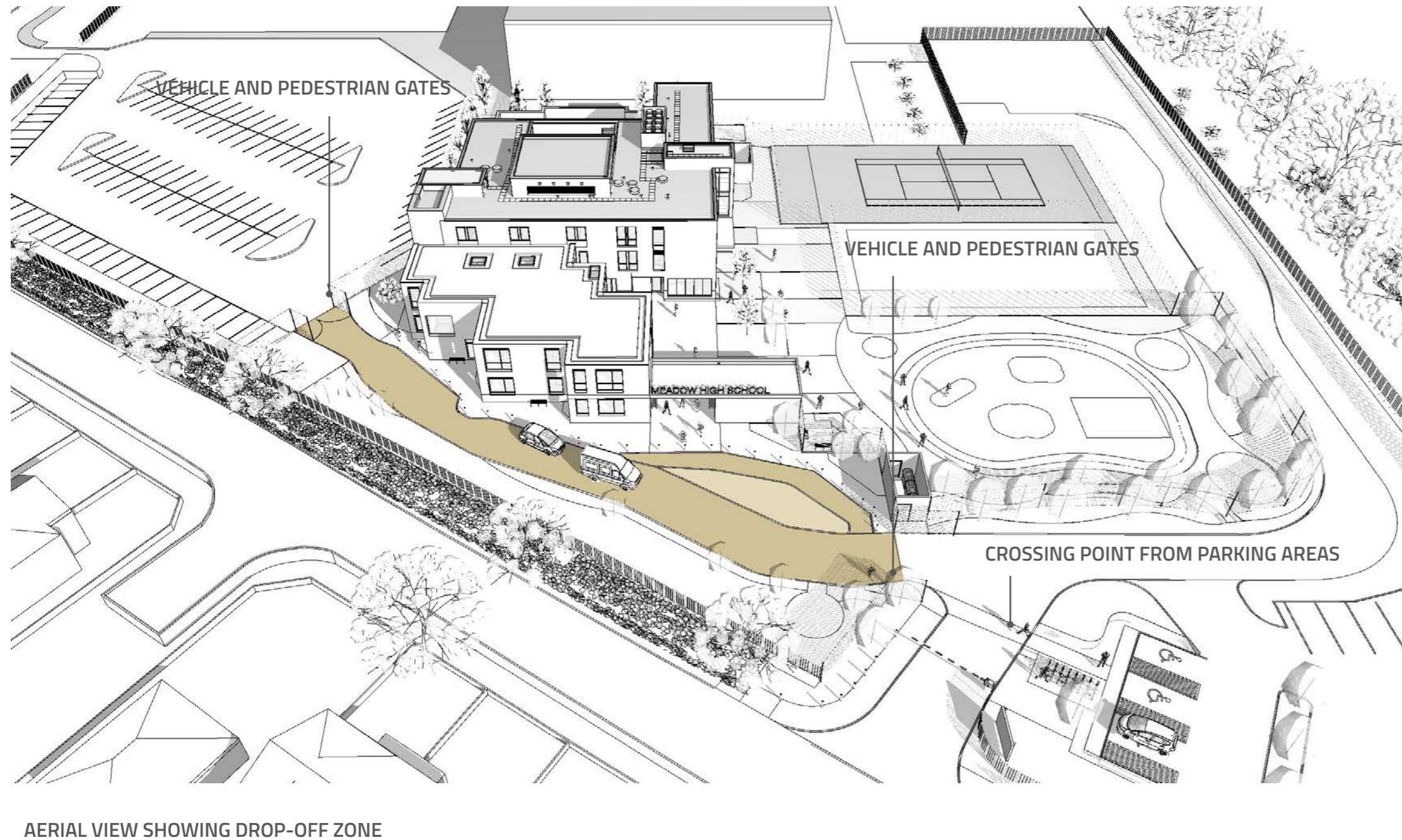
5.02 DESIGN PROPOSAL

PROPOSED SITE PLAN



5.03 DESIGN PROPOSAL

ENTRANCE/ DROP-OFF



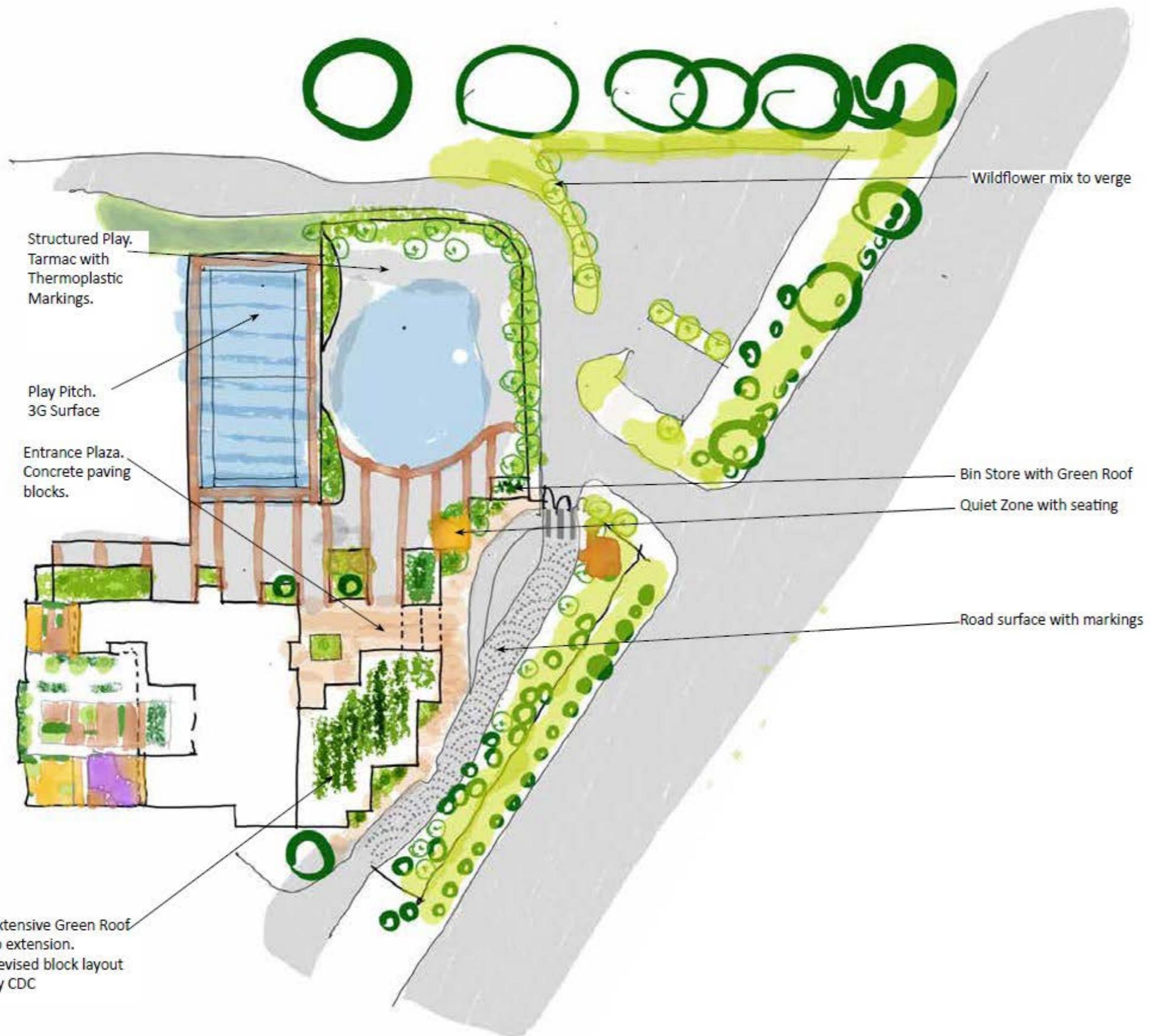
The drop-off area will be secured with vehicle gates that are intended to be manually controlled by the school staff. These gates will be opened at the start and end of the school day to allow access for the transport service, or otherwise for emergency vehicles.

When secure, the drop-off area will become an external space to encourage scooting and running, and will be playfully marked to suggest activity as shown in the precedent image below.

Pedestrian gates will be provided for visitor access during the day. Visitors will be able to connect via video intercom with the school office and be admitted by gate release hardware.







The external landscape has been developed to support the school curriculum and provide an attractive series of spaces for the pupils.

The spaces have been differentiated with hard surfaces and with areas of soft landscape providing pockets of green space.

The walled gardens are to be broadly refurbished, but with new features introduced and an existing sunken bed raised in level for accessibility and safety.

Please refer to landscape architect HEDuk information for further details.

The external spaces strongly relate to the form of the new extension and encourage activity and movement

