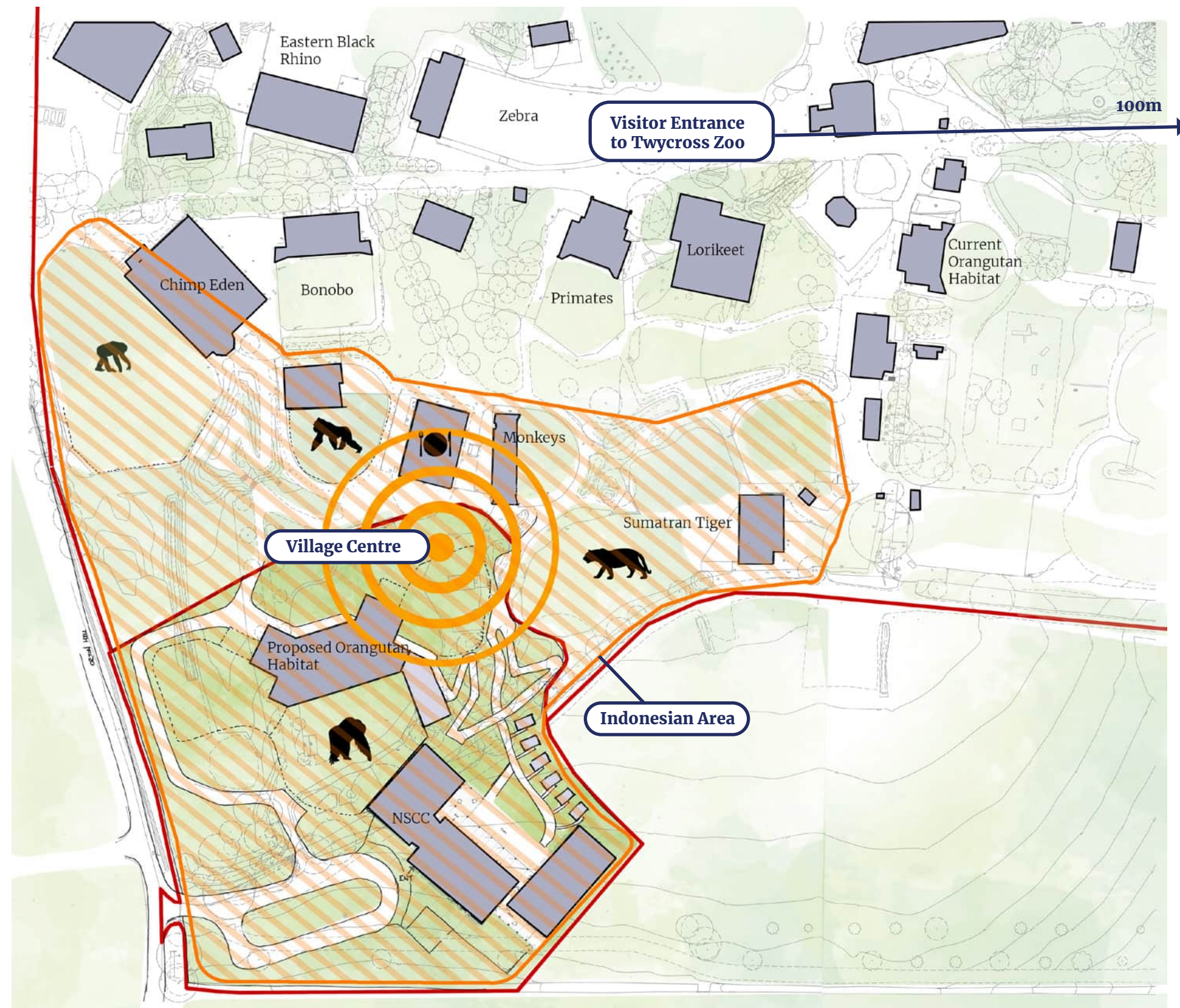


3.02 Proposal Development

Village Centre: Indonesia

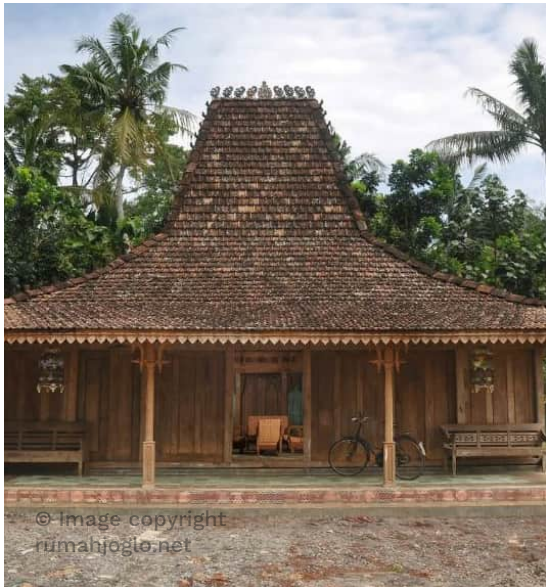
The new proposals represent an opportunity for Twycross Zoo to not only provide an enhanced environment for the Orangutans, but to also group species together from Indonesia, which will be used as a touchpoint for gentle theming and a way to educate visitors about that part of the world.

This will be focussed around a village centre, making use of external dining, external 'play along the way' features and the proposed external classroom.



3.02 Proposal Development
Village Centre: Indonesia

Indonesian craft and architecture will be used as a touchpoint for the surrounding area in the Zoo, with subtle details for example in the design of the pergolas and open classroom, while – as shown in the Micro Library precedent below – still making a contemporary piece of architecture.



Examples of Vernacular Indonesian Architecture



Microlibrary Waruk Kayu
SHAU Indonesia

3.03 Proposal Development Site Masterplan

Proposed Additional
Habitat

Residential Lodges

Proposed Additional
Habitat

Indonesian Village
Centre

Outdoor Classroom &
Additional Habitat

Songbird Aviary

External Dining
Shelters

Orangutan Habitat

NSCC

Residential
Building

3.04 Proposal Development
Key Precedents



Silver How
Hall + Bednarczyk Architects



Ahmedabad Residence
Studio Mumbai Architects



Top: Glen Iris House
Breathe Architecture

Bottom: David Brownlow Theatre
Johnathan Tuckey Design



Farmhouse Renovation
Buro II & Archi+I



Pennycroft
Napier Clarke

3.05 Proposal Development

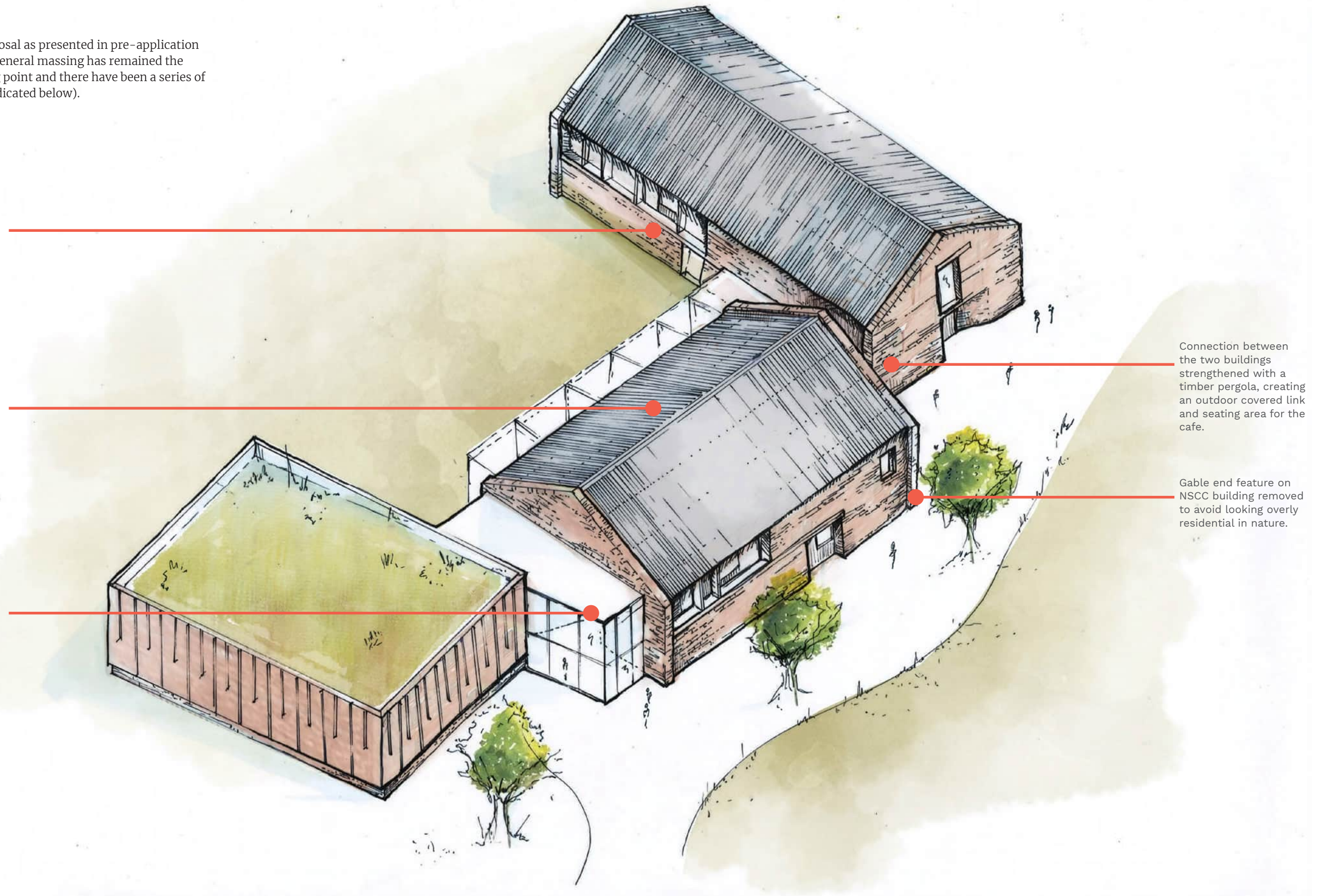
Initial Massing Sketch: NSCC and Residential Build

The initial massing proposal as presented in pre-application discussions. Whilst the general massing has remained the same, this was a starting point and there have been a series of improvements (some indicated below).

Facade design has been refined, for example with subtle changes in mortar colour and brick bond. A terracotta coloured concrete plinth provides a more monolithic base.

Roof material changed to a clay tile. This creates a more interesting architectural statement, with all the volumes comprised of a similar hue, and helps tie the volumes together visually, despite the various massings.

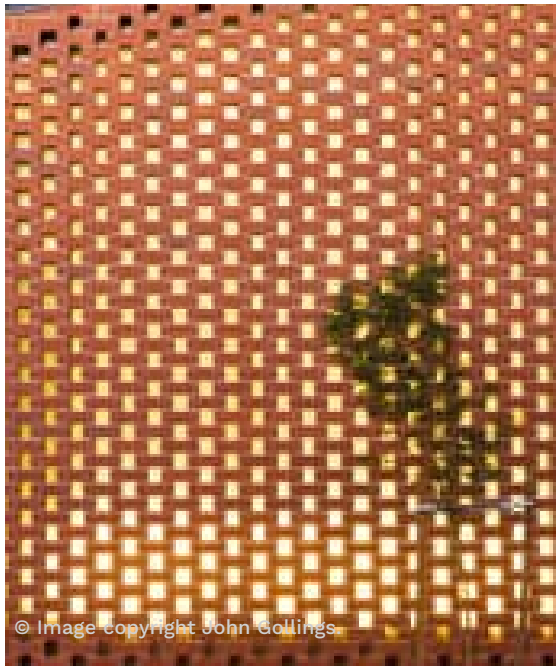
Entrance reconfigured to be a glazed slot covered by an oversailing roof. This creates a more rational geometry and benefits from more shading to the glazed areas.



Connection between the two buildings strengthened with a timber pergola, creating an outdoor covered link and seating area for the cafe.

Gable end feature on NSCC building removed to avoid looking overly residential in nature.

3.06 Proposal Development
Material Palette



3.07 Proposal Development

Concept Elevation Study: NSCC Building



Breaks in cladding intended to reinforce the agricultural nature of the design, (which is intended to tie in with surrounding village of Little Orton) - with a strong regular grid and crosses to represent exposed shed cross bracing structures.

Clay tiles. To maintain colour palette, any solar panels required by building control to be in a terracotta hue.

The intention is to break down the relatively simple forms with subtle changes in material - increasing in complexity higher up the elevation - from a monolithic terracotta coloured concrete base, through bricks with a matching terracotta mortar to bricks with soldier courses and a contrasting mortar colour.

A similar effect is intended to be achieved on the lecture theatre with fins, if possible created from the offcuts of the cladding material.

Pleached trees further activate the facade and reinforce the grid,

Hit and miss brickwork creates a secure line but also helps visually tie the buildings together.

Where possible, existing trees from the site to be power washed to remove the bark and reused in the pergolas and other landscape structures around the site.



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© Image copyright 2023 Crest Brick Slate & Tile Ltd.



© Image copyright Jim Stephenson, Nick Dearden



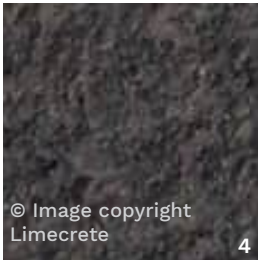
© Tomm Ross



© Nika Pollari

3.08 Proposal Development
Concept Elevation Bay Study

As with the design of the lecture theatre, which has aimed to be ‘top heavy’ with the increasing complexity in the joints between panels and fins, the mass of the NSCC building and residential building has been subtly divided by careful detailing of the brickwork and plinth, as described opposite:

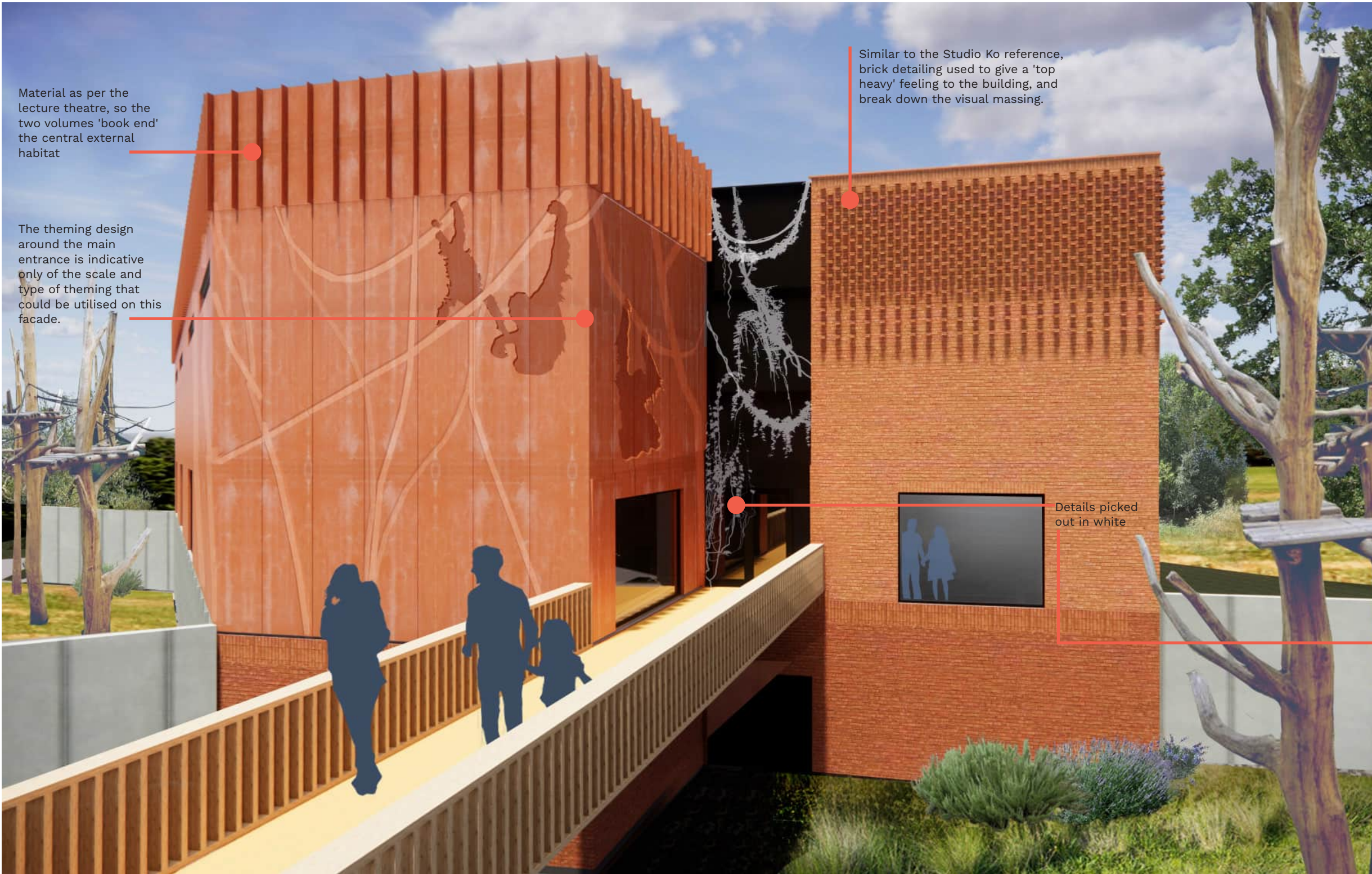


3.10 Proposal Development

NSCC Concept Entrance View



3.09 Proposal Development
Concept Elevation Study: Orangutan Habitat



Panda House Copenhagen Zoo
BIG



Musée Yves Saint Laurent Marrakech
Studio KO



Indonesian Vernacular Detail

3.11 Proposal Development Massing - Aerial View



4.00

Landscape Design

4.01 Landscape Design

Landscape Concept

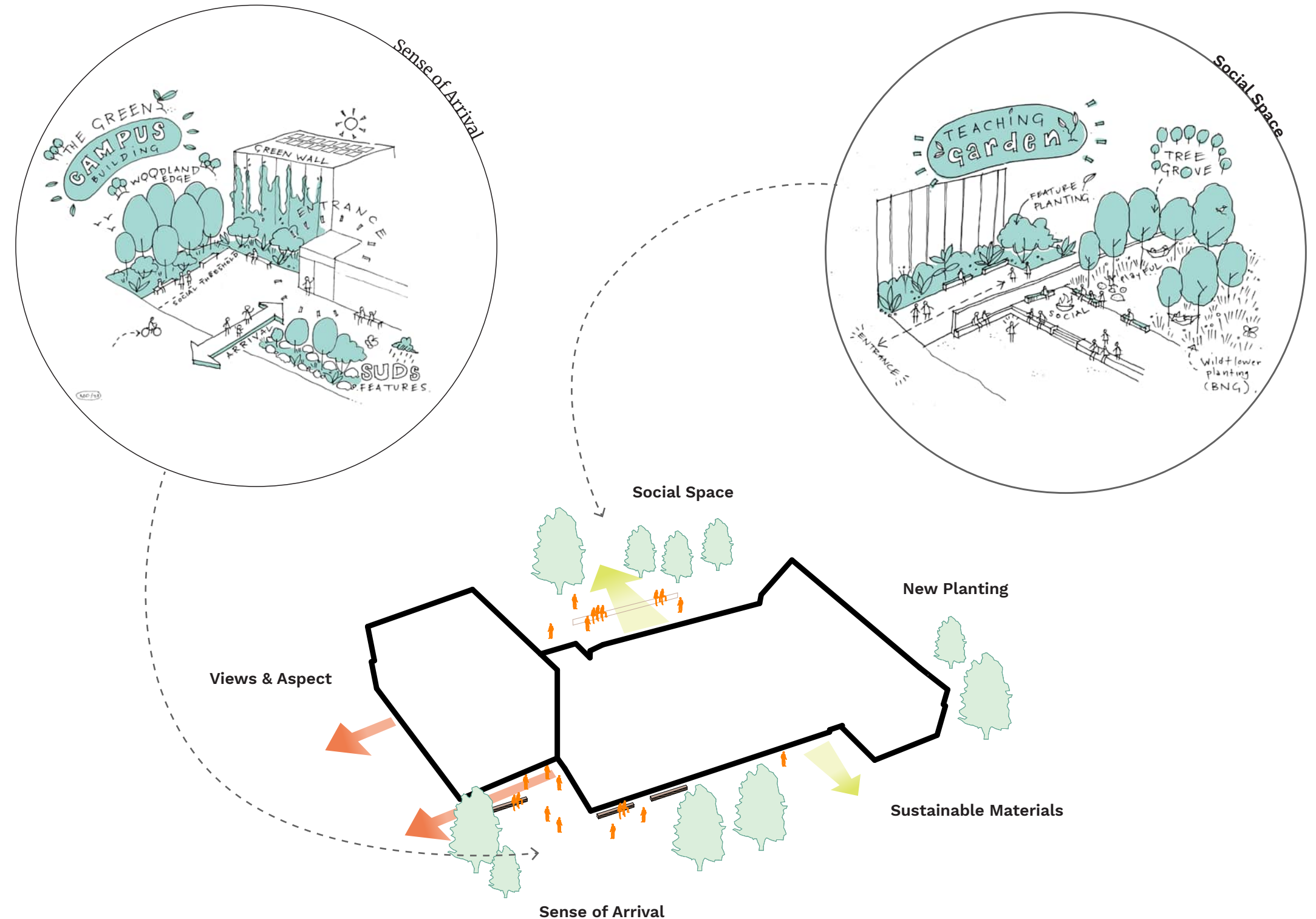
‘Prospect & Refuge’

The landscape concept looks to provide a series of connected external and internal spaces within the development encouraging a ‘sense of arrival’, ‘social space’ and providing key views from the building and the landscape. These design principles, as shown opposite, will provide a sustainable and robust landscape with threshold spaces that provide a series of functional spaces that residents and visitors will come to explore and enjoy, with the opportunity to ‘look and learn’.

The front and rear thresholds to the building provide a street link through the building and the landscape spaces. Both create strong experiential spaces and encourage active and passive activities. These areas also provide places that create ‘Prospect & Refuge’ providing clear views towards the local countryside and the Orangutan enclosure.

Design Principles:

- Sense of Arrival
- Social Space
- Views & Aspect
- New Planting that promotes Biodiversity
- Sustainable Materials
- Sustainable Urban Drainage Principles



4.02 Landscape Design
Soft Landscape Precedents

The soft landscape proposals look to provide a simple yet sustainable and biodiverse environment. As part of a more sustainable landscape HLM are looking to implement new mature tree planting to mitigate the edges of the new development but also provide a varied choice of species for sequestering carbon. New key green infrastructure such as green roofs, wildflower meadows and tree planting to enhance biodiversity will sit alongside a lawn area to the ‘Teaching Garden’ and vegetated swales as part of the wider SUDs strategy.



Lawn to ‘Teaching Garden’



Mature trees to site boundary and within the building’s proposed ‘Teaching Garden’



Green Roof to proposed NSCC Building



Vegetated swales to Car Park and ‘Teaching Garden’



Wildflower meadow envelopes the proposed building to offer biodiversity and reduce maintenance

4.03 Landscape Design

Hard Landscape Precedents

The palette of external materials aims to compliment the overarching Architectural concept and the use of materials internally and externally. Taking inspiration from the local vernacular the aesthetic for the landscape proposals aims to provide an enticing and social environment. The landscape proposals look to provide a consistent palette of materials help to unify the front entrance ‘threshold’ space and ‘Teaching Garden’. The materials selected create a clean, crisp timeless finish to the scheme.

Social Space – The opportunity to sit and dwell within a comfortable setting is emphasised by generous and adaptable seating. Seating encourages dwell time and offers the opportunity to gather within the ‘Teaching Garden’. The proposed furniture design is combined with a steel base and hardwood timber slats.

Surface materials – the hard landscape surface materials provide a simple, elegant, and robust material finish to the ground level, and present a ‘carpet’ finish through the building entrance and internally. A porous bound gravel surface is proposed to the footpaths as part of a wider SUDs strategy.

Textures – The surface materials of textured dry-stone walls provide a nod to the local landscape. Quality Paving, furniture and rough textured retaining walls offer the opportunity to enhance the tactile experience for residents and visitors within the landscape environment.



Social space – timber top benches with steel feet



Social space – timber top seat with steel feet



Social space – Picnic tables to ‘Teaching Garden’



Surface materials – large block paving to threshold space



Surface materials – clay paver finish to threshold space and ‘Teaching Garden’ courtyard



Surface – Porous resin bound gravel to pathways around the building and linking to the Zoo



Surface materials – permeable surface to car park



Textures – brick walls and seating to ‘Teaching Garden’



Textures – Fire pit to ‘Teaching Garden’ for visitors and residents