SUBSTRATA: STRANMILLIS

UNIVERSITY DESIGN FORUM

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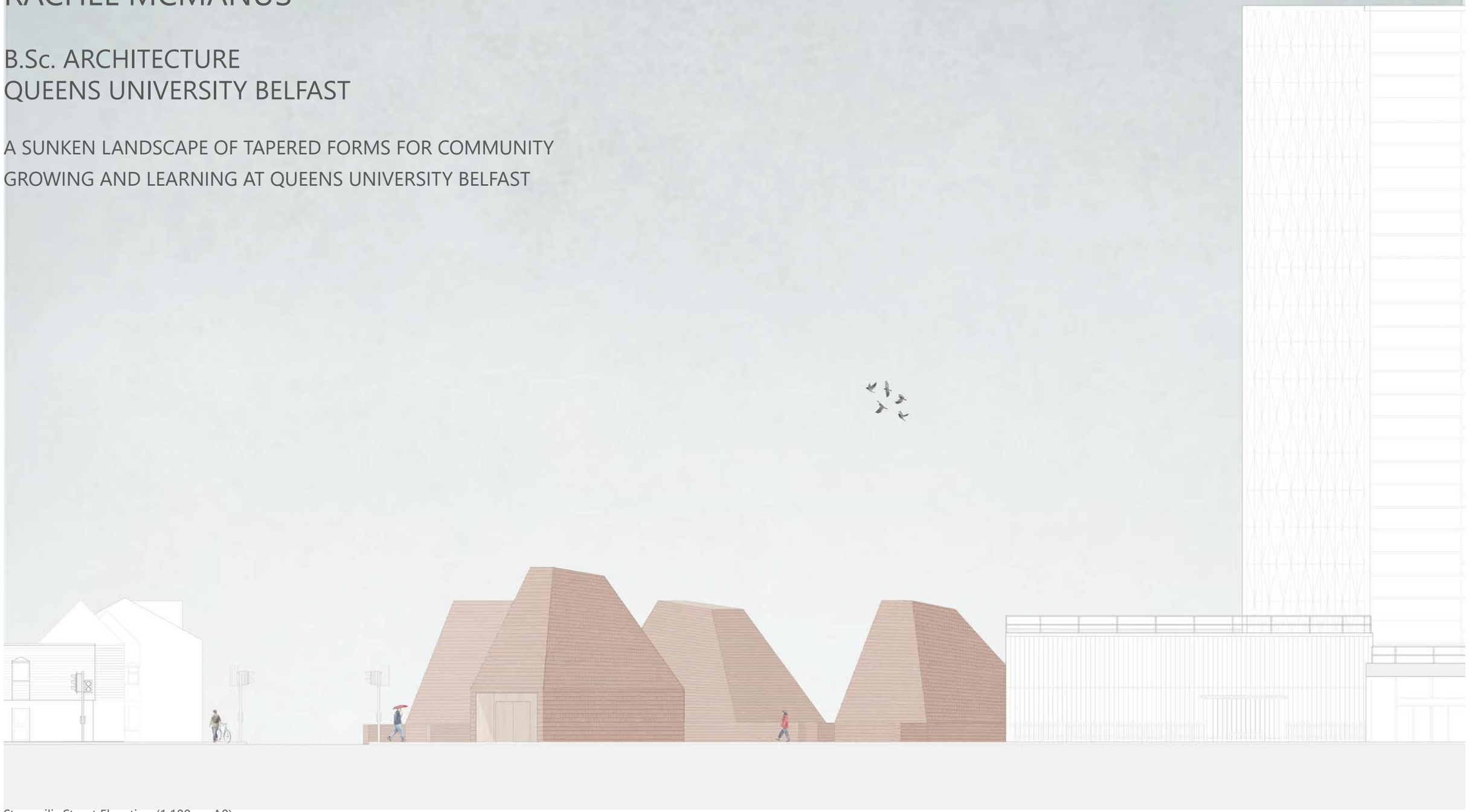
A SUNKEN LANDSCAPE OF TAPERED FORMS FOR COMMUNITY GROWING AND LEARNING AT QUEENS UNIVERSITY BELFAST



Stranmilis Street Elevation (1.100 on A0)

Community Garden Atmospheric

BRIEF OVERVIEW

-Climate Resilience Hub and Community Garden for QUB

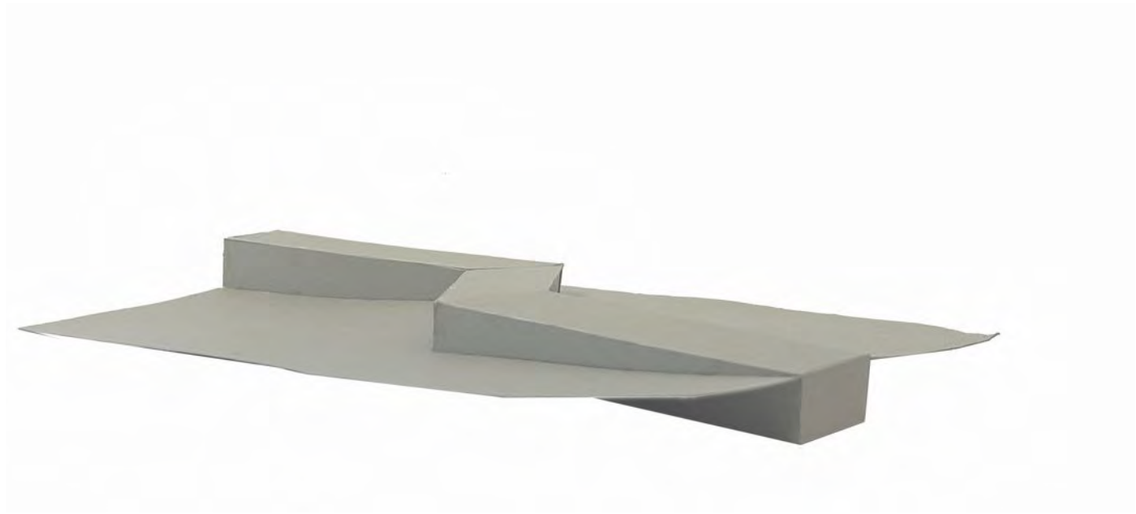
-Space for growing learning, research, food growing and community spaces

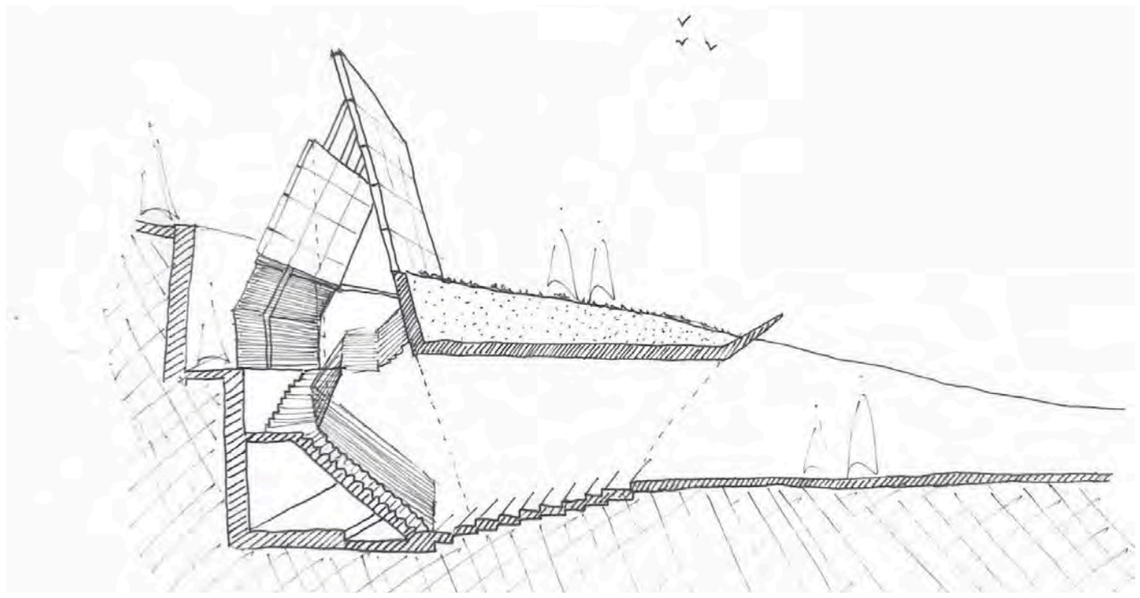
-Integrates sustainable design, biodiversity and water management

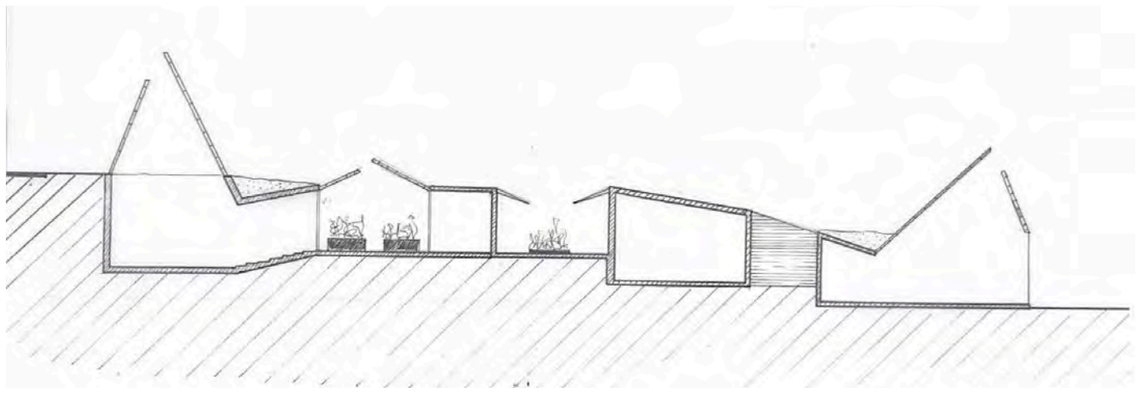
-Promotes climate adaptation, wellbeing and ecological stewardship

INITIAL IMPRESSIONS: THE SITE

The proposal uses the site’s topography and new desire paths to activate an underused junction, framing and drawing people towards the Ashby Building.







Concept Development Model & Sketches

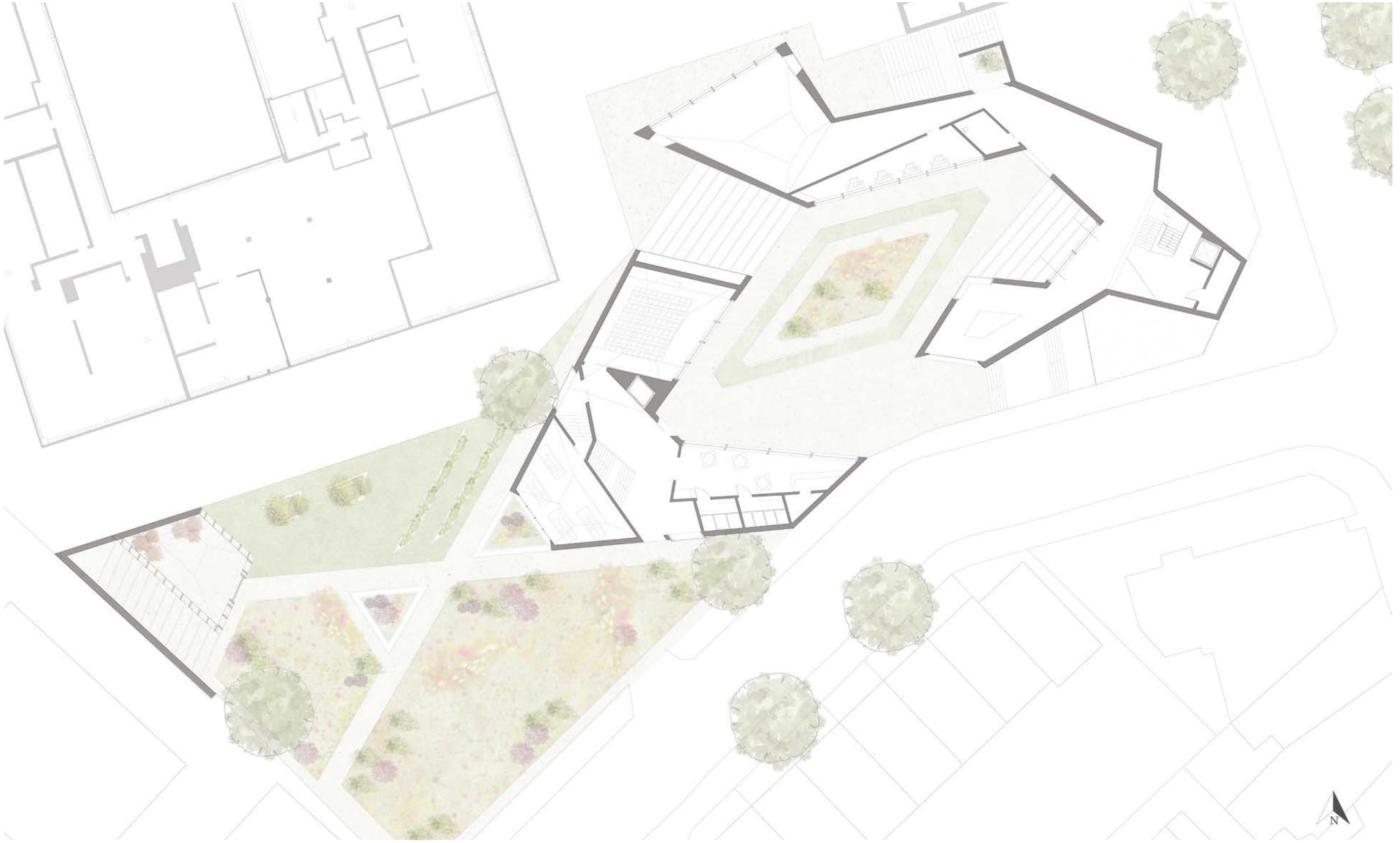
CONCEPT: SINK, EMERGE, CONNECT

Dissapear below ground so the landscape and comminity can come forward

PRECEDENTS THAT SHAPED THE THINKING

Trail House (Anne Holtrop)

Lascaux IV (Snohetta)



-1 FLOOR PLAN

At Level -1, educational spaces are embedded within the landscape, where gardens and outdoor learning areas blur the boundary between building and nature.

Site Model 1.100 Ariel View

Roof Plan 1.100 on A0

SITE PLAN & PLACE MAKING

The project transforms an inaccessible campus junction into an active public space, connecting people through accessible roof terraces, a sunken courtyard, and a community garden.

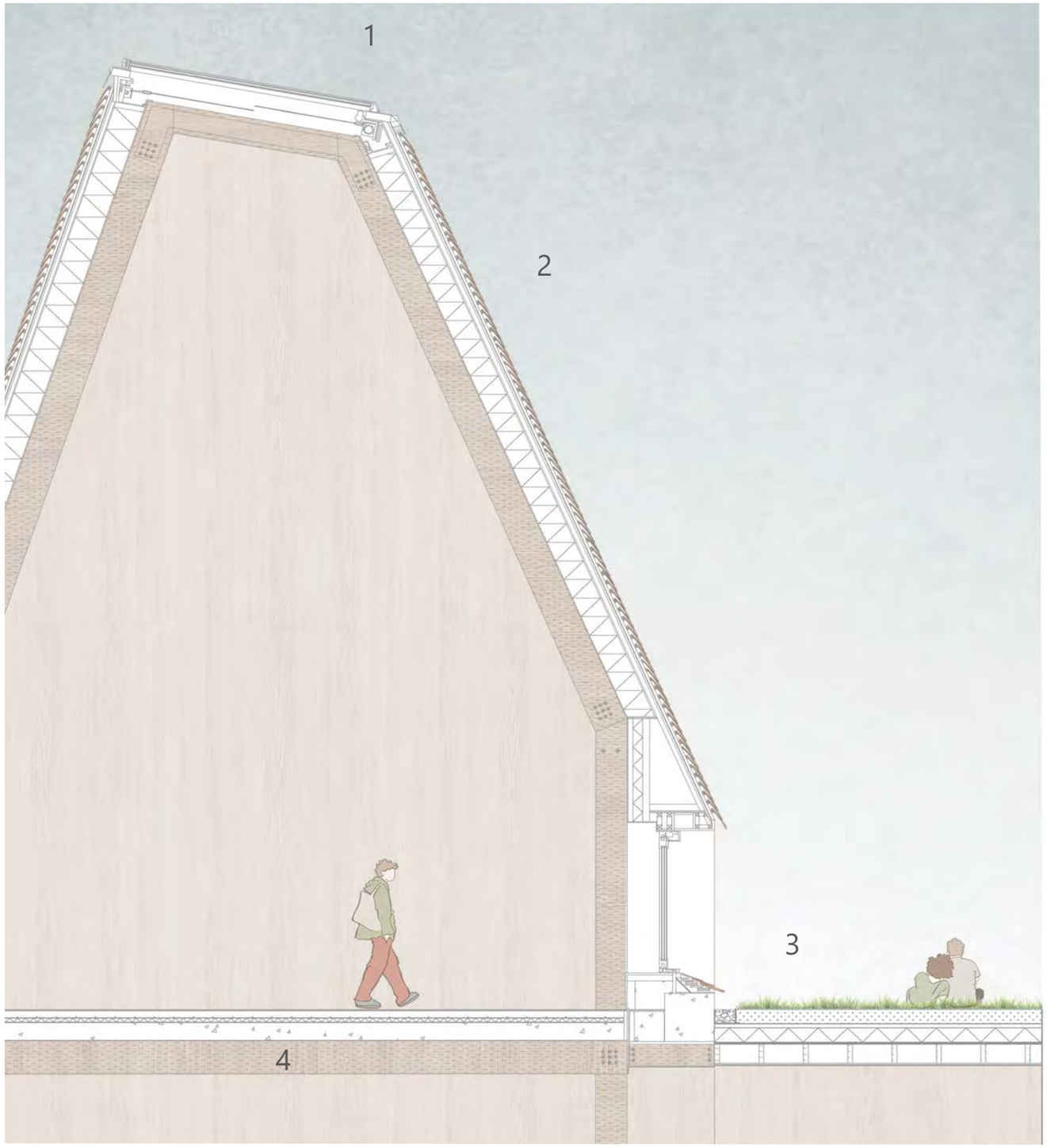
SECTION: THE SPATIAL ARRANGEMENT

The sections are where the full depth of the idea becomes visible, the building hidden below, light flooding through the cone skylights, staggered levels connecting street to garden to interior.

SITE MODEL 1:100

EDITED CONE ELEVATION

DETAIL SECTIONAL MODELS



DETAIL SECTION OF ENTRANCE

Key;

1-SKYLIGHT
double glazing in alum. frame 2x6mm
toughened glass +18mm cavity
fabric sunblind

2- ROOF DETAIL
30mm clay tiles
25mm timber battens
30mm ventilated cavity
breather membrane
roofing underlayment
20mm plywood sarking
50mm timber joist
300mm Sheep wool insulation with I joists
200mm lam. timber rafters

3- GREEN ROOF
50mm vegitation (grass)
150mm soil
40mm drainage level (gravel)
2mm root barrier
3mm waterproof layer (membrane)
150mm insulation (sheeps wool)
vapour barrier
20mm plywood decking
200mm timber joists
15mm plywood cieling

4-SUSPENDED FLOOR
15mm plywood floorboards
80mm screed
40mm impact soundboarding
laminated fill
100mm fill
300mm lam.timber beam

A PLACE TO LEARN, GROW, AND BELONG

Substrata gives the university community something the junction currently denies a reason to stay. The garden is civic infrastructure. The building is an act of restraint. Together they make a threshold between the university and the city.

Section 1.100 on A0