

## Masters's thesis at the Lucerne School of Engineering and Architecture

<b>Title</b>	<i>Regenerating Gundeldingen Wohngenossenschaft</i>
<b>Student</b>	<b>Purkis, Róisín</b>
<b>Master's degree program</b>	<b>Master of Arts in Architecture</b>
<b>Semester</b>	<b>spring semester 22</b>
<b>Lecturer</b>	<b>Seifert, Annika</b>
<b>External examiner</b>	<b>Friederike, Kluge</b>

### **Abstract German**

Click or press here to enter text

### **Abstract English**

The density of a substance is a measurement of its compactness, its mass divided by volume. As Basel's population or 'mass' continues to grow, limitations have been imposed on its degree of sprawl or 'volume'. The outcome, therefore, is a denser city, where new volumes are introduced between, above or below existing.

Urban density is often referred to through population statistics, unit numbers and areas in a pragmatic and scientific analysis. The statistics are widely accepted to prove dense cities are more environmentally and economically sustainable. However, along with economic and environmental sustainability, I argue that denser neighbourhoods can also support social sustainability which I define as an unprescribed, symbiotic system of community, which naturally regenerates as lives and cultural contexts evolve. I see maximum densification potential in the cooperative living typology as an ethos of resource pooling preexists. This master's thesis intends to repopulate and extend an underoccupied set of cooperative apartments located on the southern edge of the identified urban block between Arlesheimerstrasse and Gundeldingerstrasse.

In this two-part project, I began by researching how the existing apartments function. As an architect in the current climate, I take the stance to consider first what the current structures offer and explore their potential through often minimal intervention. Step two was to identify what the old cooperative buildings could not offer and rationally consider integrating a new volume on the BWG owned plot. Essentially the new building should respond to its surroundings and characteristically enrich the site. It should therefore read as a new contributing fragment. The surrounding buildings were constructed, renovated and added to over time, and the block, therefore, reads like a palimpsest of stories or series of moments. Rather than erasing or overtaking, I envision the cooperative extension as a new addition to the collection of stories. I find the 'imperfections' of this block charming, and unlike the formal yet bland speculative tabula rasa housing on the block next door, the diverse quality of this interior courtyard personifies the natural conditions of the domestic realm.

Place, date

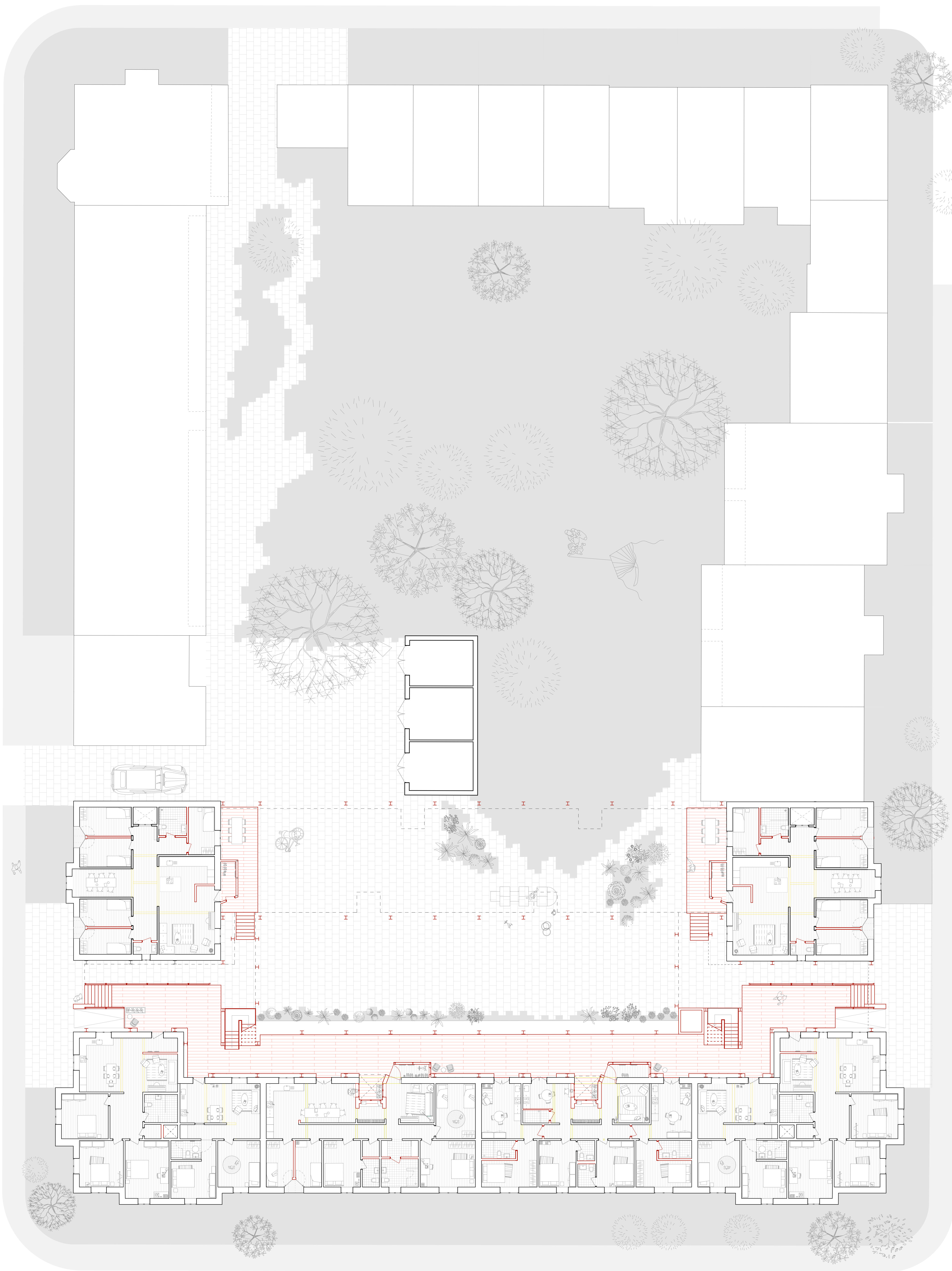
Lucerne, 17th June 2022

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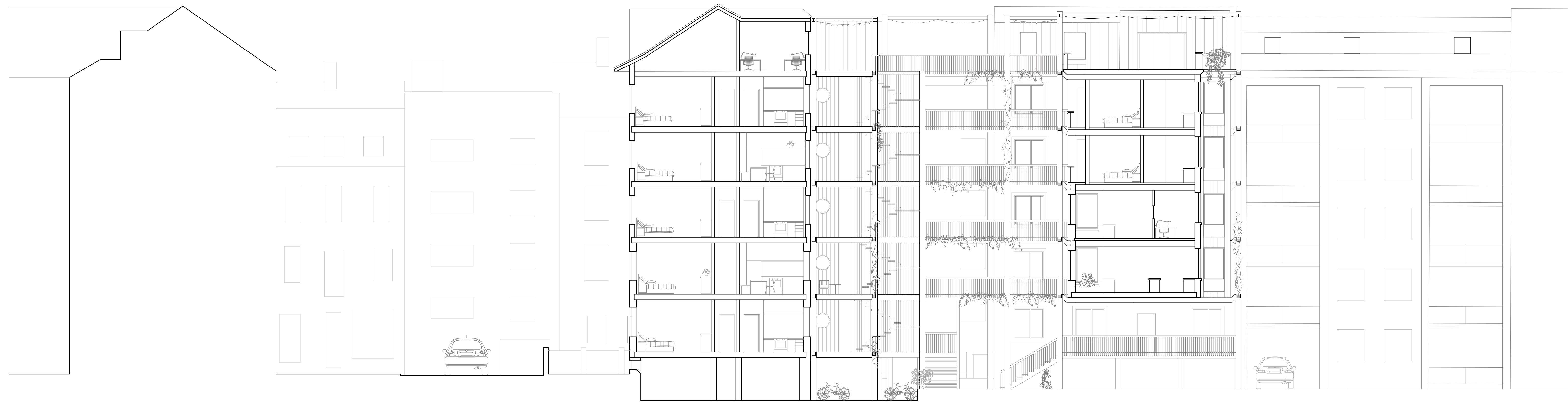
Gundeldingerstrasse

Artesheimerstrasse

Gilgenbergerstrasse

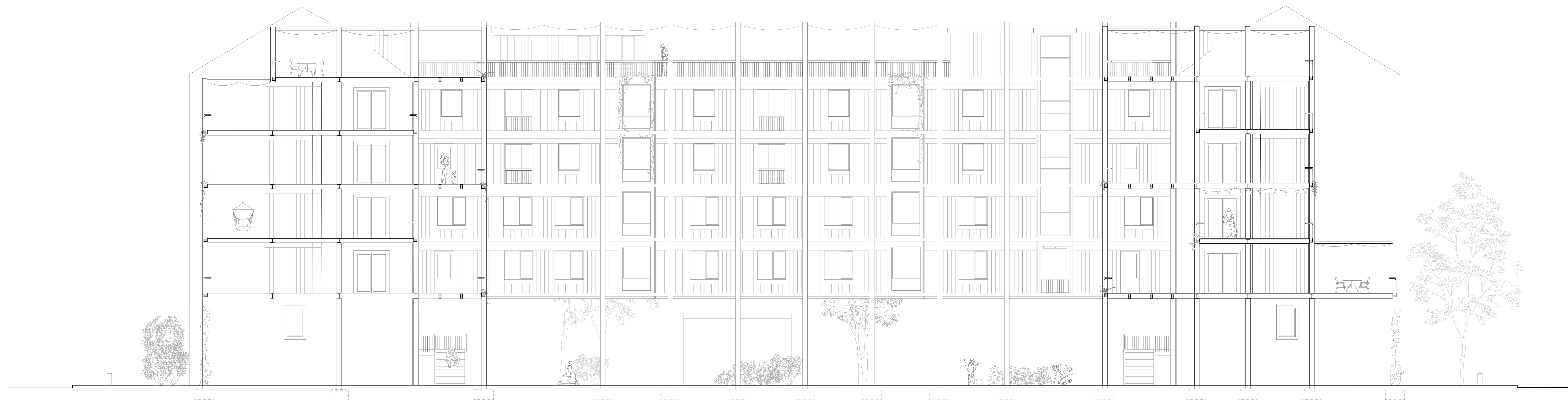






Section A-A

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Section B-B

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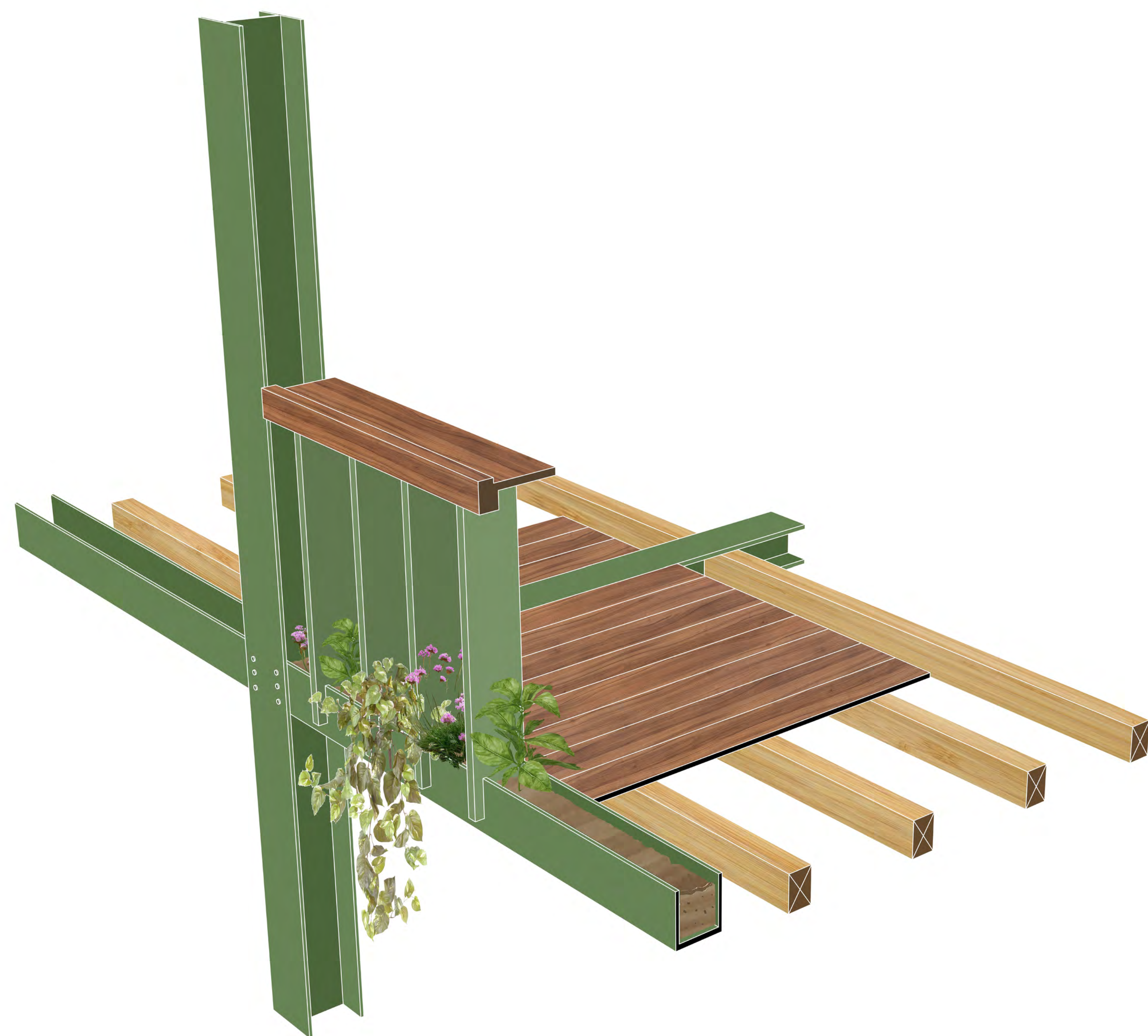
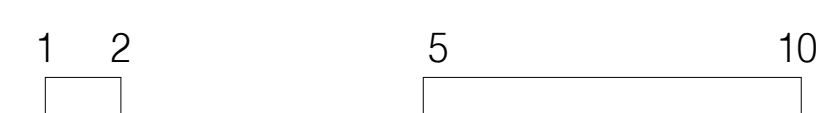






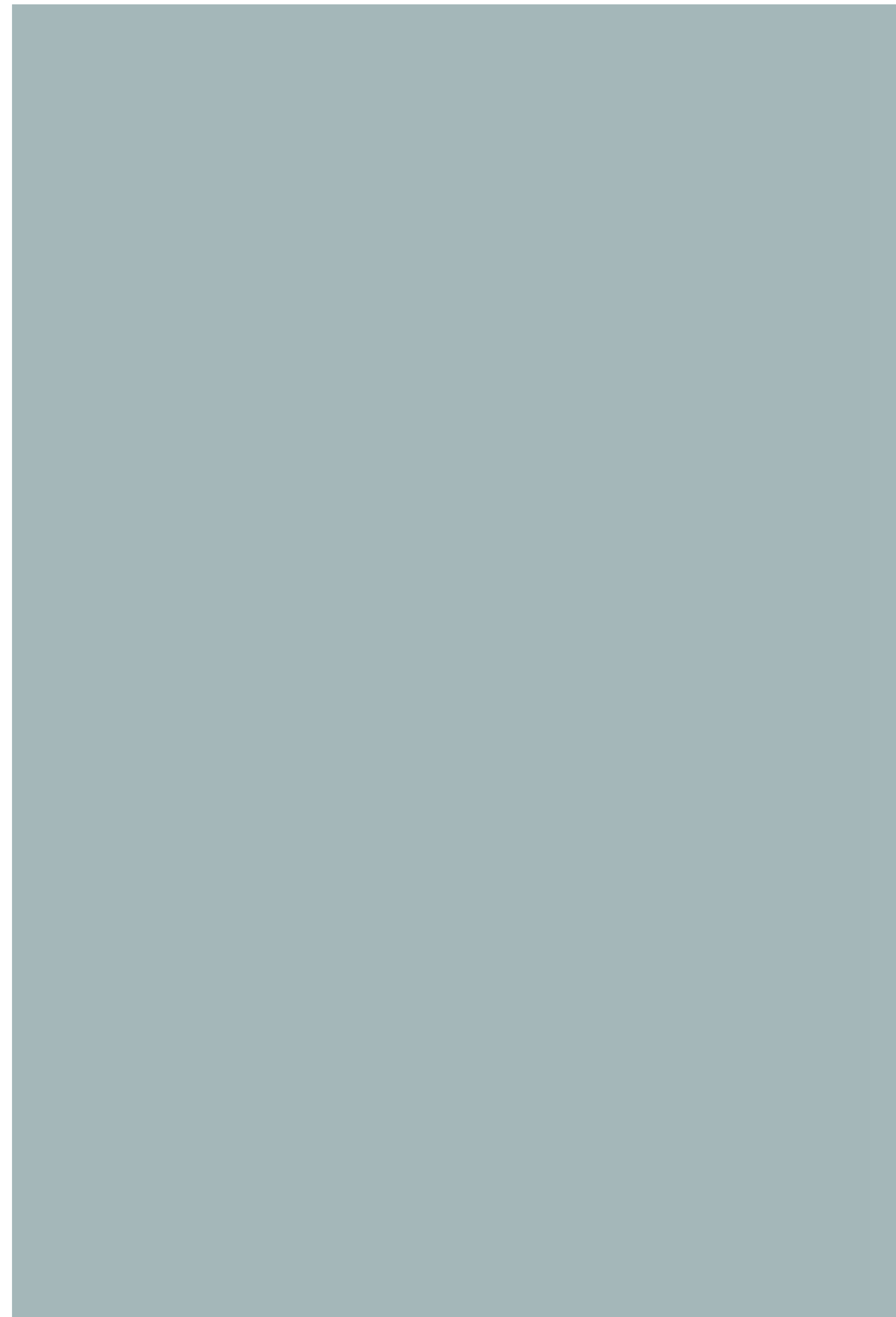
Street Elevation

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Access Deck Steel Structure

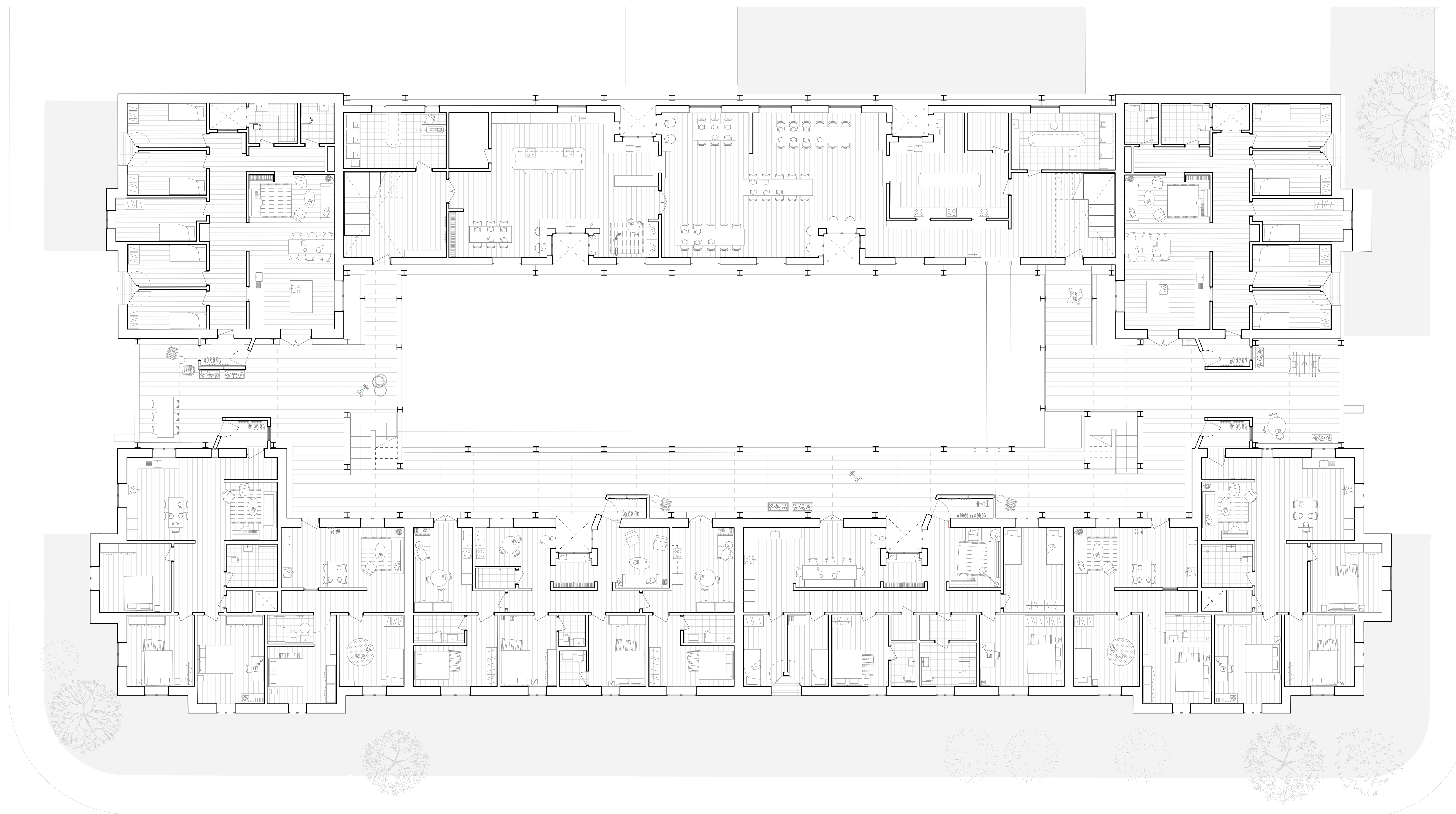
steel structure as planter / deep handrail surface - activating the 'laubengang'



Courtyard View

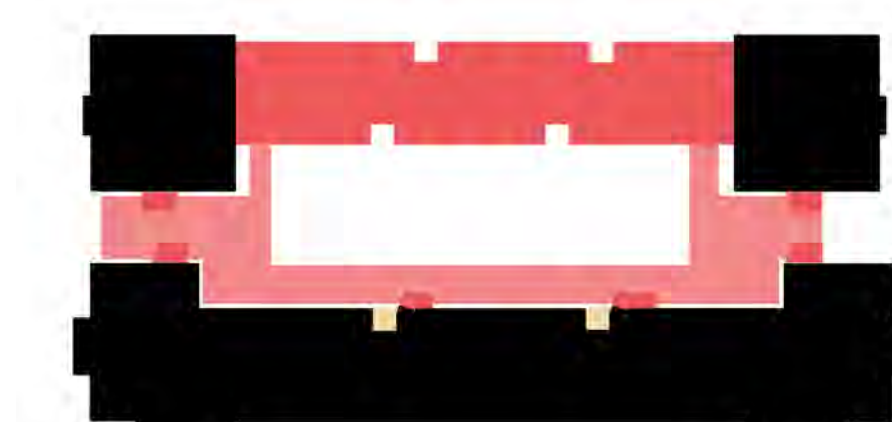
model photograph



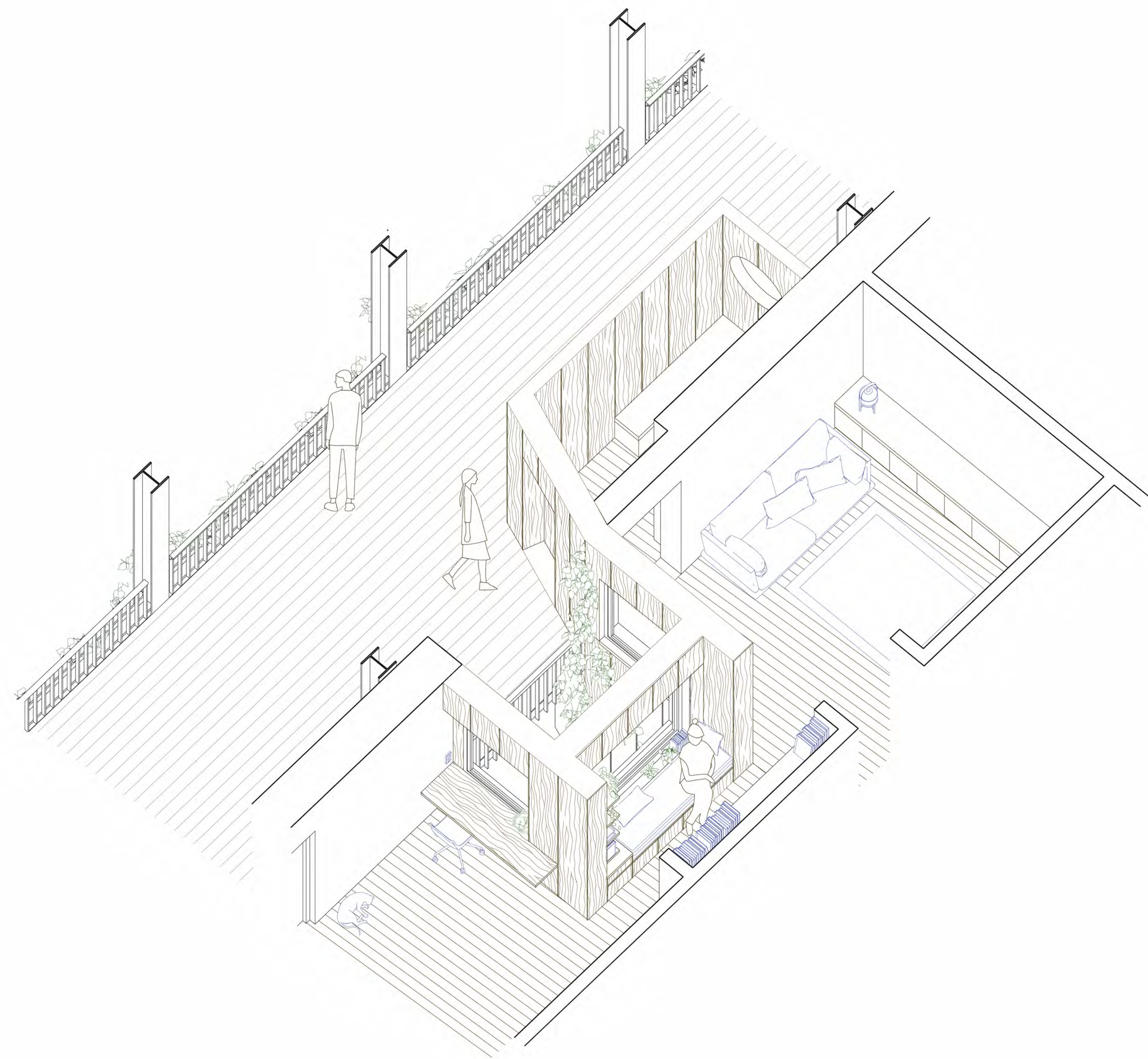


First Floor Plan

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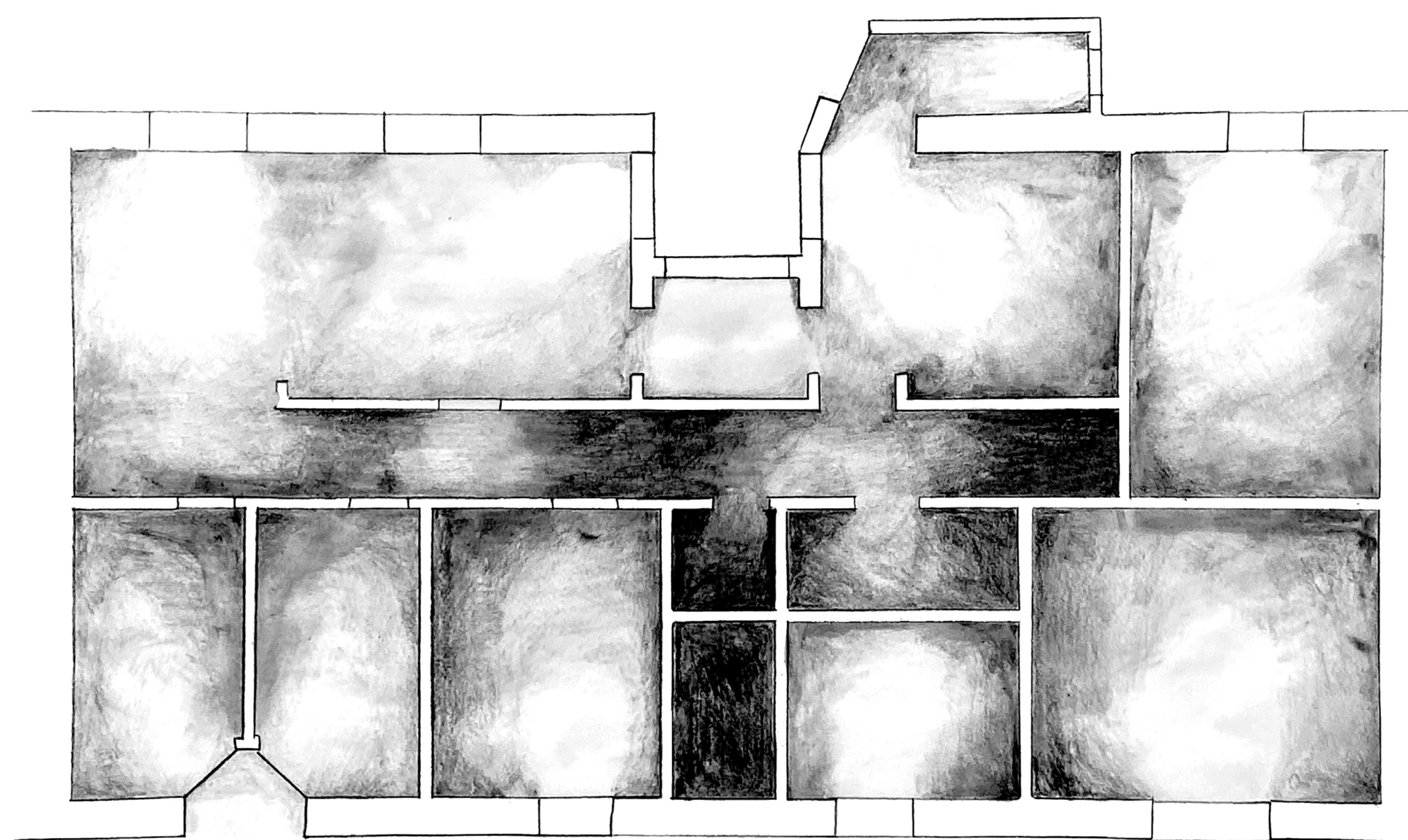






Lightwell Niche

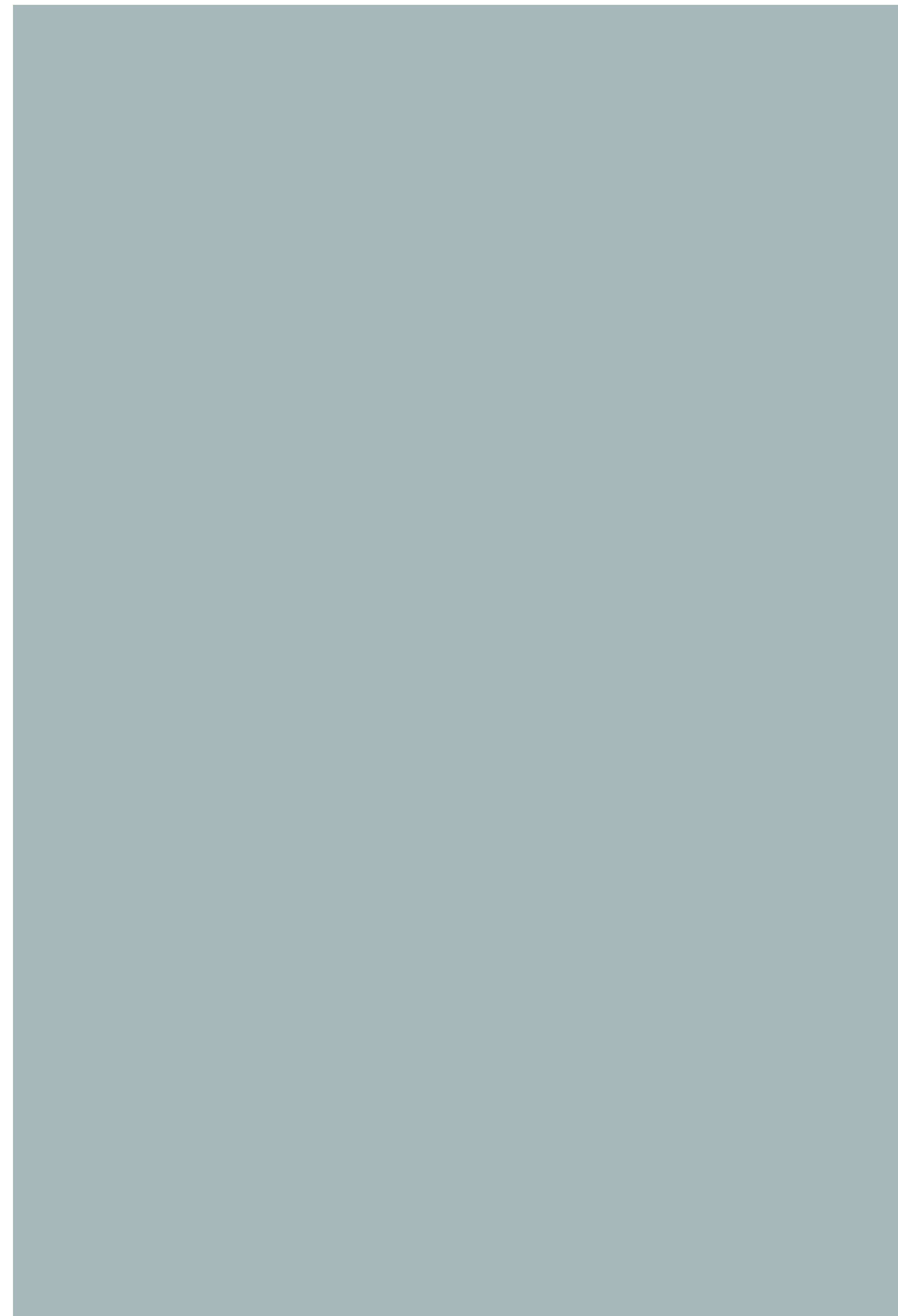
'heart' of the apartment replacing original staircases



Daylight Study

1:50

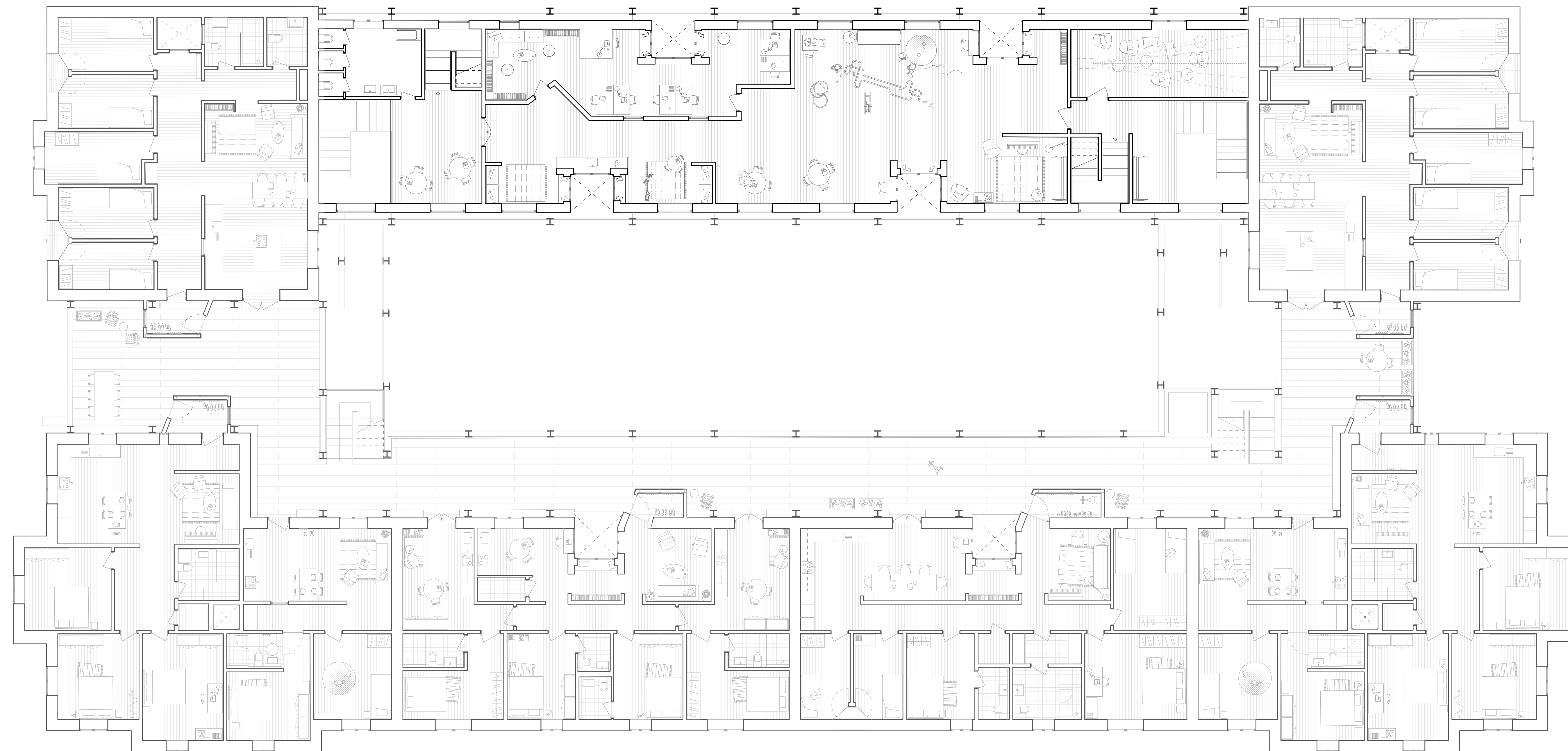
5 room apartment



1 Room Apartment View from 2nd Floor

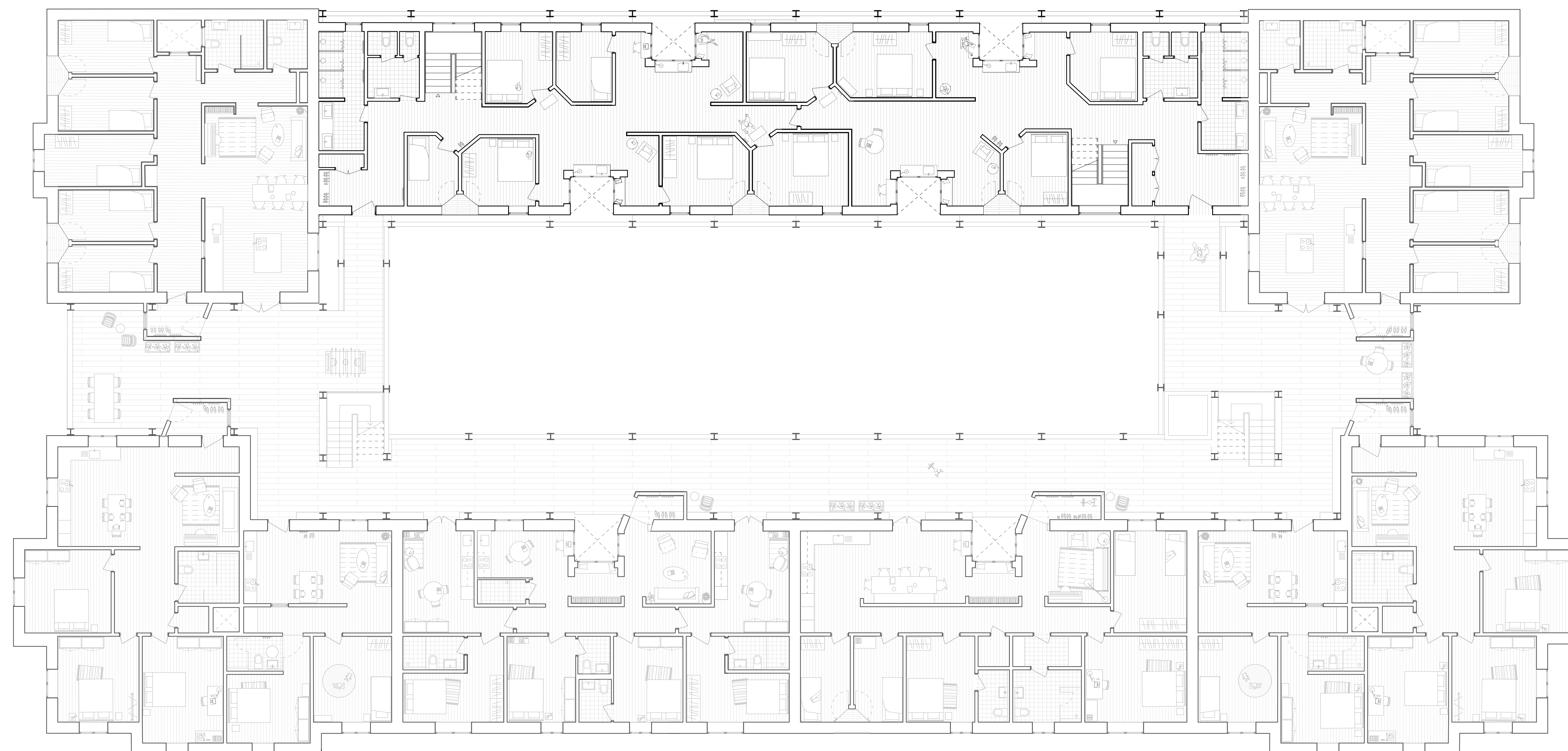
model photograph





Second Floor Plan

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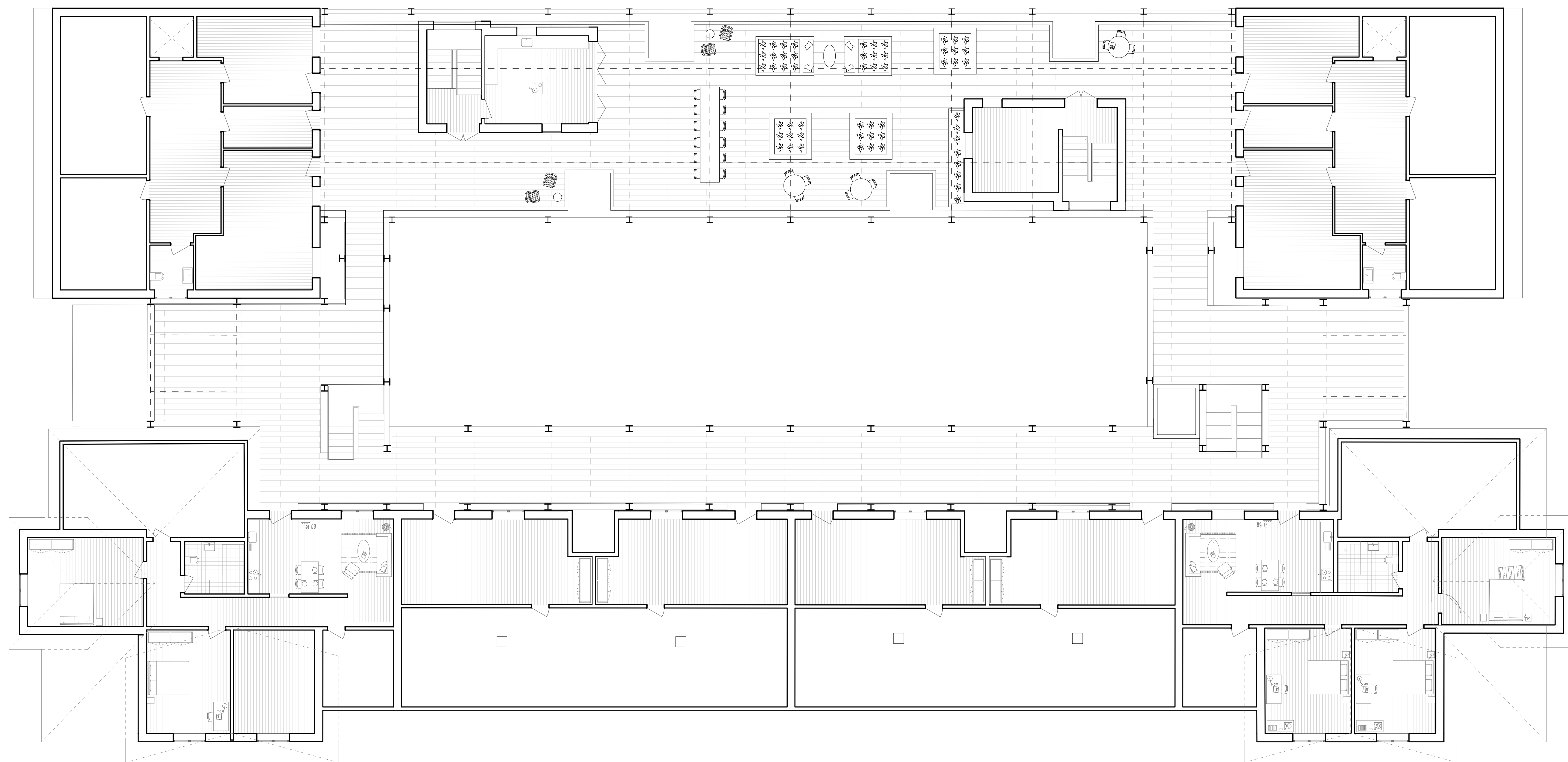


Third & Fourth Floor Plan

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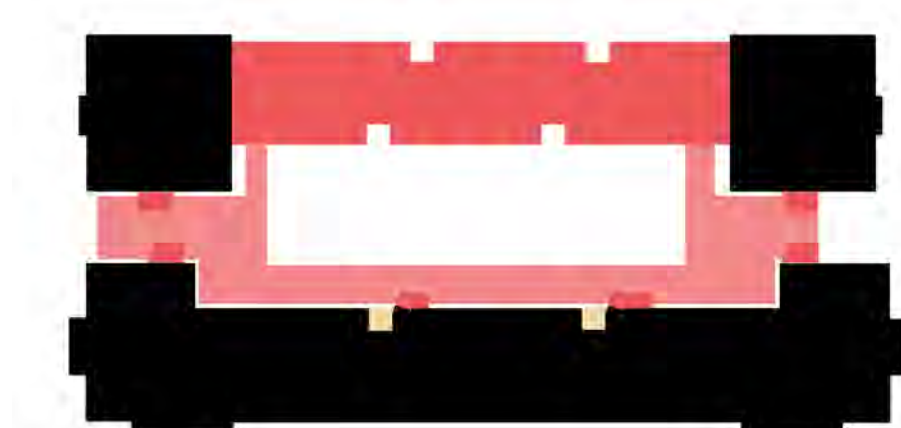






Fourth Floor Plan

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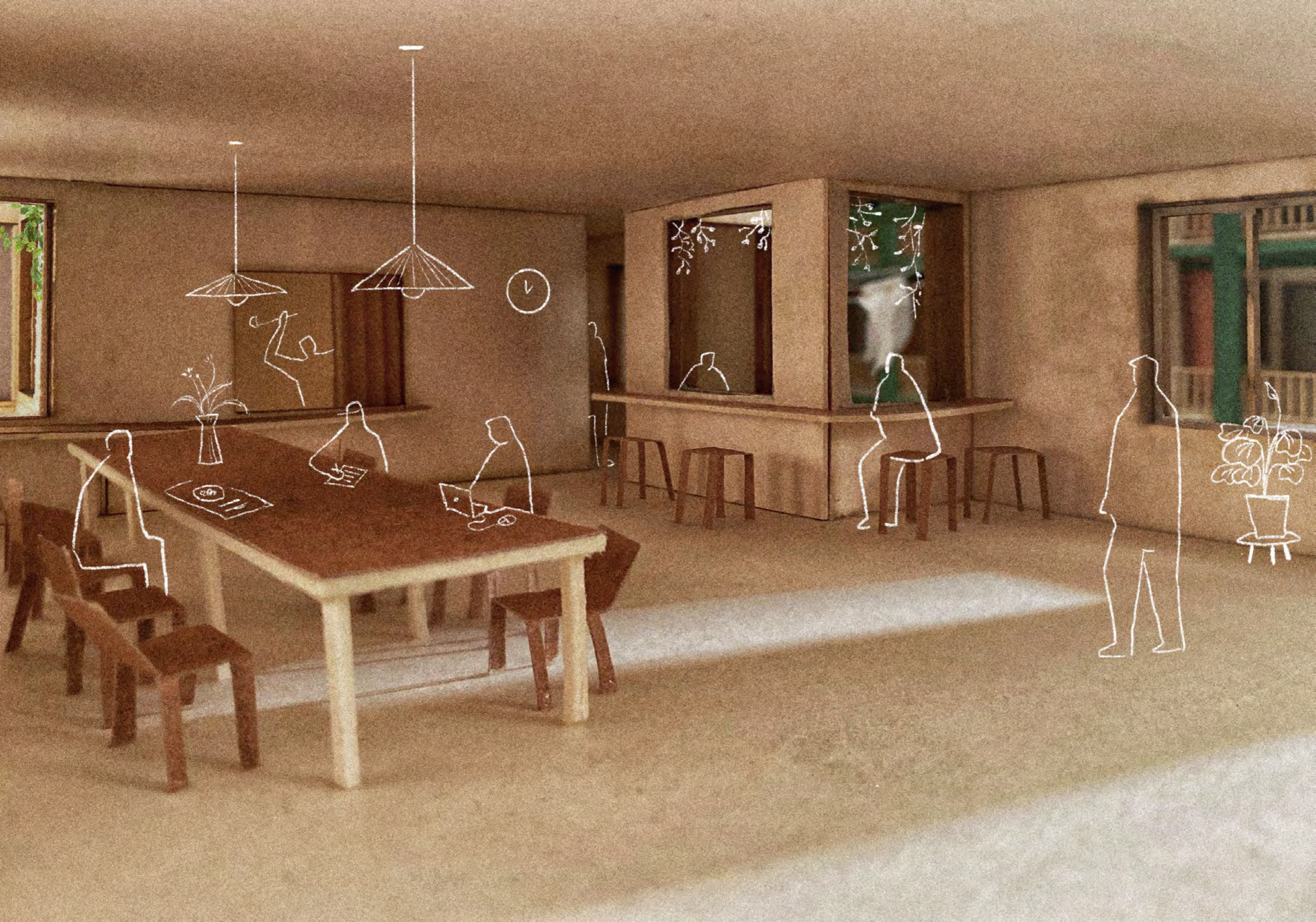


















# Regenerating Gundeldingen Wohngenossenschaft

## Diverse Densification for Social Sustainability

The density of a substance is a measurement of its compactness, its mass divided by volume. As Basel's population or 'mass' continues to grow, limitations have been imposed on its degree of sprawl or 'volume'. The outcome, therefore, is a denser city, where new volumes are introduced between, above or below existing.

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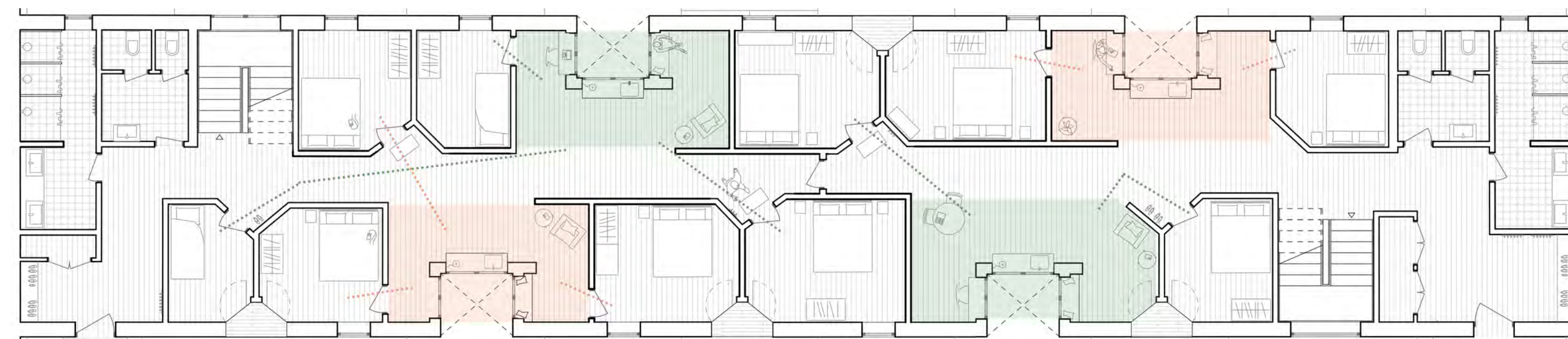
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Róisín Purkis

Communal Dining Area

model photograph



Creating Community & Identity in Cluster Living

1:100

model photograph

