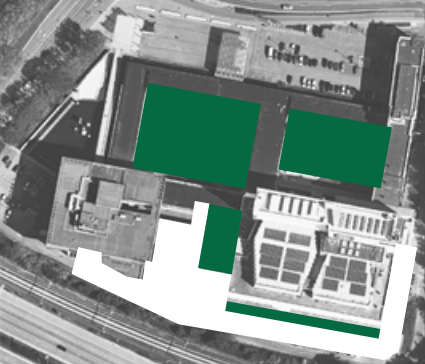


Project Journal



Veronica Danesin

weeks 3.9 - 4.5

A new edge for DeSingel

Framing the Landscape

Introduction - BRIEF
Archiving Architecture

Design Studio mentors:
Daniel Rosbottom
Susanne Pietsch
Jurjen Zeinstra
Sam De Vocht

Research Seminar mentors:
Amy Thomas
Sereh Mandias

AE + T mentor:
Matthijs Klooster

But fist a step back

P3 feedback

Daniel's notes: The creation of a new edge that reframes the relationship of the building to the landscape, cutting out the middle ground of the motorway. You describe it as a 'rampart', could it be a kind of pergola? Do you think that the pockets of space from which to view the landscape could happen in section as well as in plan? Carving out the section? **DRAW THE SECTION!!**

What is the character of the building edge? Could it be planting that gives it a sense of solidity? The new courtyard has a lot of potential reiterating Stynen's original intentions and making a better setting for the kings balcony. What happens to the big courtyard that one needs to pass through to get to your new landscape space? Your project could be said to be all about landscape and your attitude to plants and landscape space needs to be the central figure of your project

The planning of the non rectilinear part is not yet convincing. Have a look at Aalto

Sam's notes:

Dennis

Section question

Resonation of the sound of the highway: technical aspects with inclination

Landscape gesture is interesting - connecting the highly preserved courtyard with the new entrance. At this point, what kind of entrance space do you have? Atrium? One floor type of space? What are its qualities?

Daniel

Model of the section: I would like to carve the section, openings towards the sky, see the towers in the distance

Japanese garden: theediminsional pockets

Surfaces of the facade?

You describe the project as the rampart, other way of conceiving it is like a pergola. Solidity coming from the plants?

Real clarity to the bottom of the plan, what's you attitude to shelving? Do you need shelves or tables?

Library part of the plan feels unclear

Look at how Aalto deals with geometry and volumes. Where does space become loose. Trying very hard to put orthogonal things into a line with a movement.

What I like around the king's lodge is restored in a courtyard garden. You should be designing that landscape as much as the interior of the building.

Landscape is important: think of Gulbenkian, sitting in the garden and its importance.

- Landscape made by the wall
- Looking at the landcape through pockets
- The landscaping of the courtyards.

Stanislaw

Here are some of my notes (very loos ones):

- do the section
- is it a frame ?what is it ?green ramp? pergola? Over-scaled garden pergola?
- show your attitude forward geometry in the plan, The part on the right where the processing is unclear (the geometry intentions)
- check out the Alto's architecture and his landscape ideas, how he deals with the flora?
- your project is about landscape - Daniel Rosbottom
- design landscape







What about the landscape?

The landscape was originally the main topic of my intervention and approach to DeSingel, but lately I've found myself drifting away from it. It wasn't really intentional—it just kind of happened. The more I analysed things in detail, the more I lost track of my original intentions related to the landscape.

If I go back to what I was already thinking about before P2, the landscape played a key role at DeSingel. But that importance seems to have faded. The idea of a microclimate, for instance, was once central to the project, but it slowly disappeared over time.

One of the main landscape features—the hill that used to connect the courtyards with the terraces—has been completely erased. It was supposed to be one of the “moments” of the building. It created a direct access from the outside to the terraces, establishing a strong link between interior and exterior, both at the building scale and the city scale.

It also implied unlimited public access to a part of the building, turning it into a valuable public space—a place for people. But that's not really the case anymore.

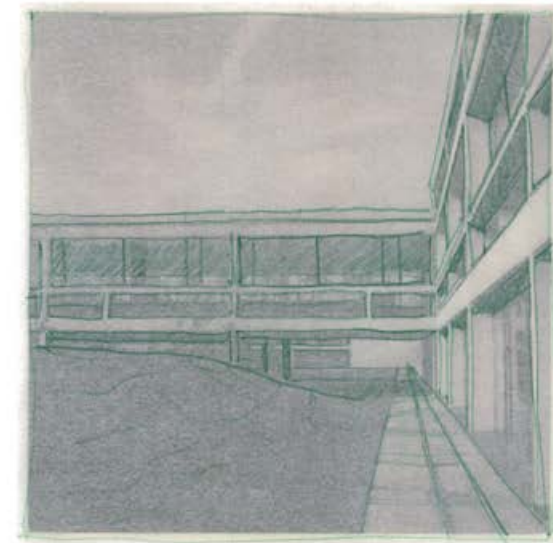
As already mentioned, the highway has totally transformed the surrounding landscape, so that original idea of a meaningful moment for the city has turned into a kind of forgotten backstreet. It's still physically reachable, but now hidden behind the Beel additions. Because of this lost connection between the initial vision and what exists now, the perception of the space—especially the courtyards—has also changed. Once I realised that, the idea of working with the courtyards as part of the intervention started to feel more concrete.

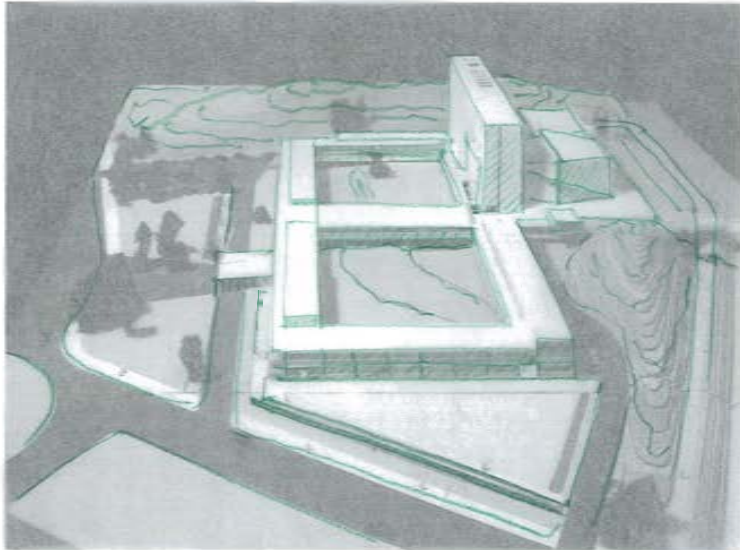
Over the years, these spaces have been changed by additions—like the “Alphaville?” exhibition by Dominique Gonzalez-Foerster in 2004, which added the small pond in the lower garden area. There've also been temporary exhibitions aimed at engaging the public with these enclosed green spaces.

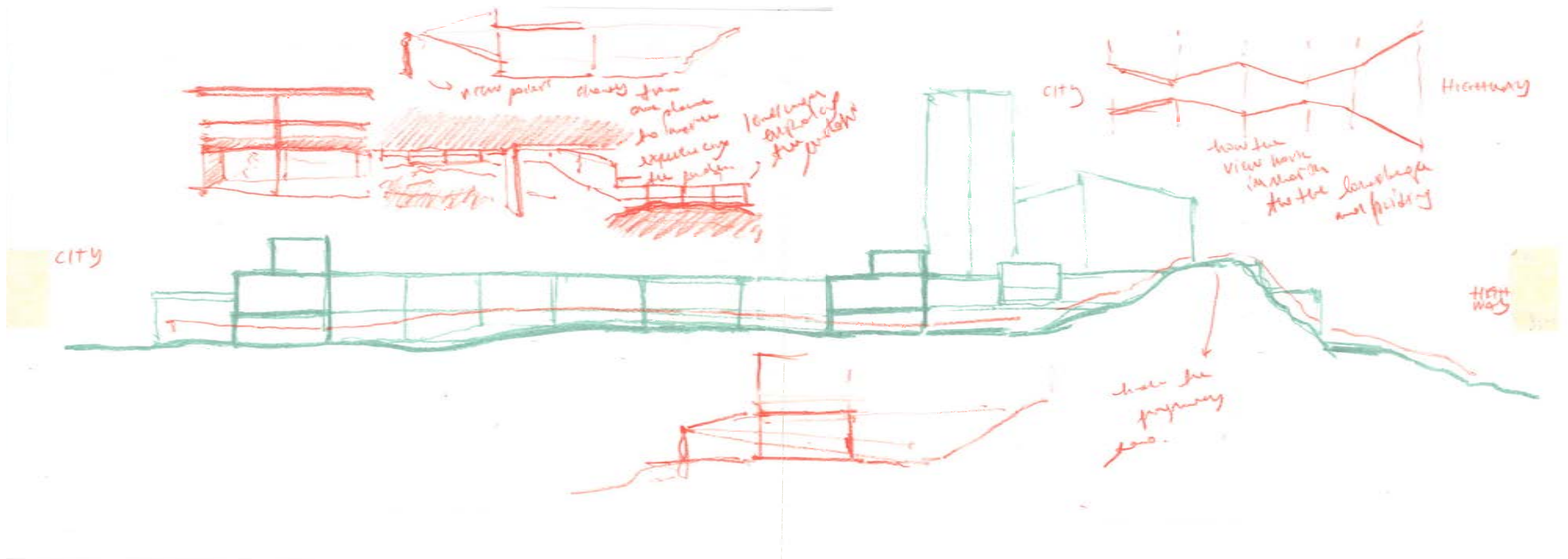
In fact, the courtyards are used at DeSingel—especially on sunny days, when students go out to eat or just sit and get some sun in cloudy Antwerp. But they're not experienced in the way Stynen originally

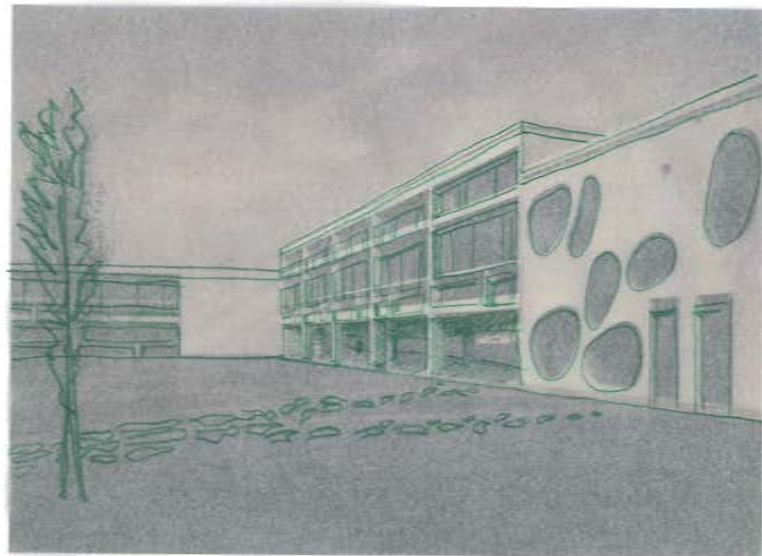
imagined. The lower area that connects the street between Stynen's and Beel's buildings is now more than halfway hidden by DeSingel's offices. That adds even more layers to how this landscape is perceived—eventually reducing them to “just courtyards.”

Some of the changes that were made don't follow any conservation principles. So, as Daniel asked during P3—why are we so afraid to touch and transform these unresolved spaces, when they've already been altered and disconnected from the original vision?

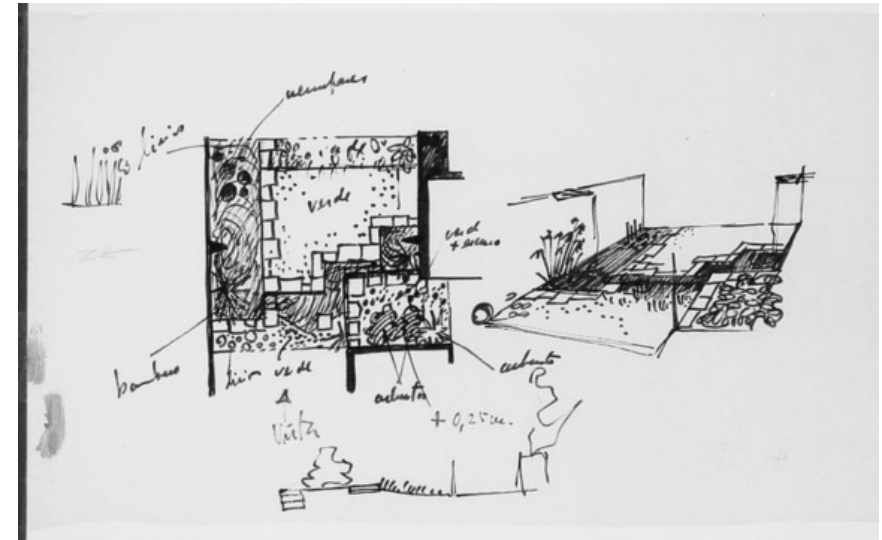
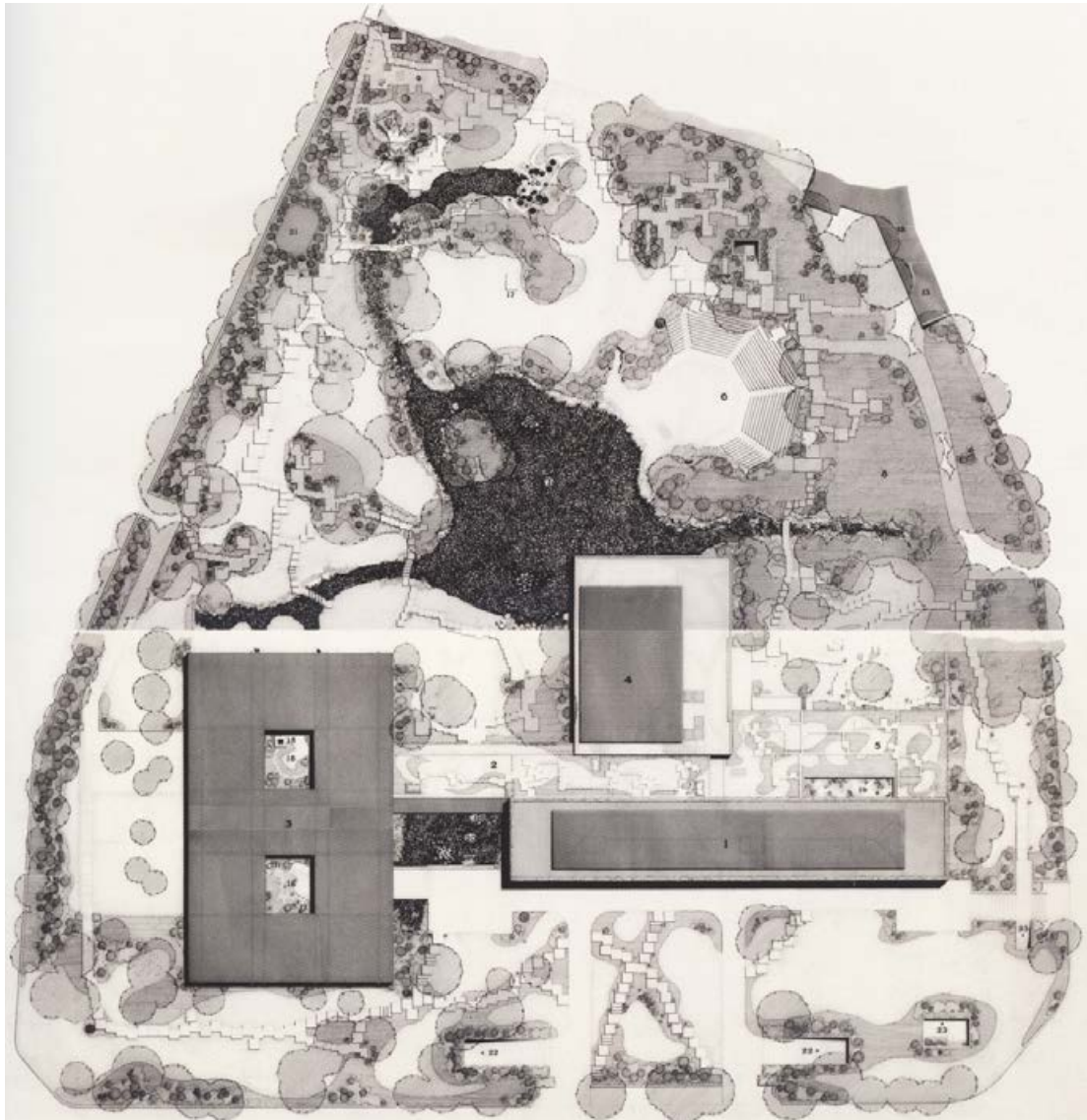












Susanne tutoring:

Do you need to transform the main courtyard into the proper entrance as different layers that you need to go through to get there?

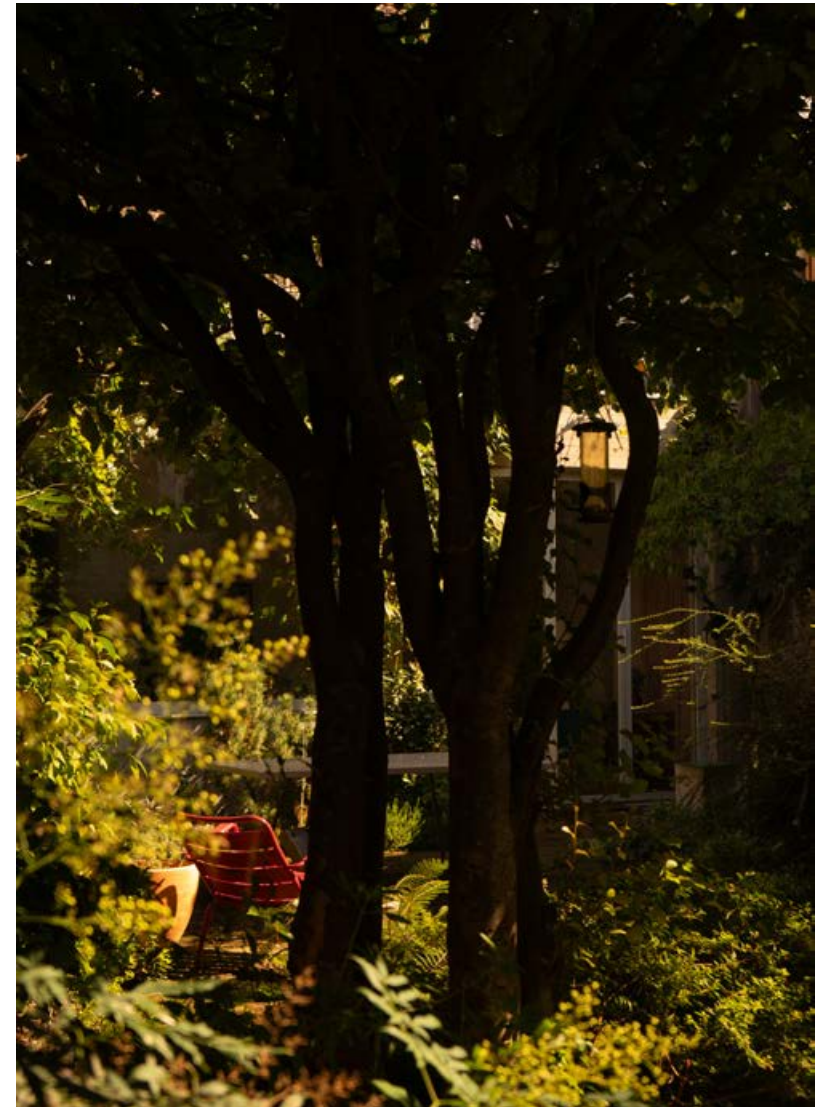
Should there be other layers of interior/exterior, as sort of elements for the entrance of the building?

Should the new courtyard be “hidden” as part of the new building and the place should be reached from the interior instead of being a closed space?

Look into Akademie der Kunste, Berlin.









Between inside and outside

“The relationship between a building and its site can be understood, then, in any one of three ways: the building as an elaboration of the terrain, an insertion into it, or something that works (toward social ends) in collaboration with it.” (Leatherbarrow 2004)

This quote from “Topographical Stories” makes me question what the landscape does on my new addition. What does the new courtyard do? What is its main aim? After P3 and tutoring I think going back to Styren’s initial scope the relation between the landscape and the building should be a collaboration. One should enhance the other and be directly connected. The building should somehow depend on the landscape that it created, and that should exist, therefore recreating the microclimate that was lost in the different phases. The building should be an attribute to the landscape and not vice versa. They should be designed together. The role of the building is to enhance the courtyard as part of it, by putting attention in materials, finishes, relation with the former conformation of the space. What was there before? Can that be integrated somehow?

“In other words, landscape, or simply land (environment, climate, region), has reclaimed all that was once taken from it: materials, spatial extent, lighting effects,” atmosphere”, and so on. Topics that have always been essential to landscape description (natural processes, materials, etc.) now also dominate discourse about buildings.” (Leatherbarrow 2004)

This new element will somehow become part of the interior organization of the building. A moment of break from the complexity of the space, giving the public an open space to explore from the first floor and bringing people to the ground floor.

Therefore, developing the already existing concept of the landscape in the building. Giving a new way of experiencing the building across floors, with inside and outside relations.

However, how can that space be part of the interior of the building?

As we can see in the Akademie der Künste it is pos-

sible to develop an outside courtyard that is strictly related to the interior of the building. Somehow transforming the courtyard into an extension of the interior.

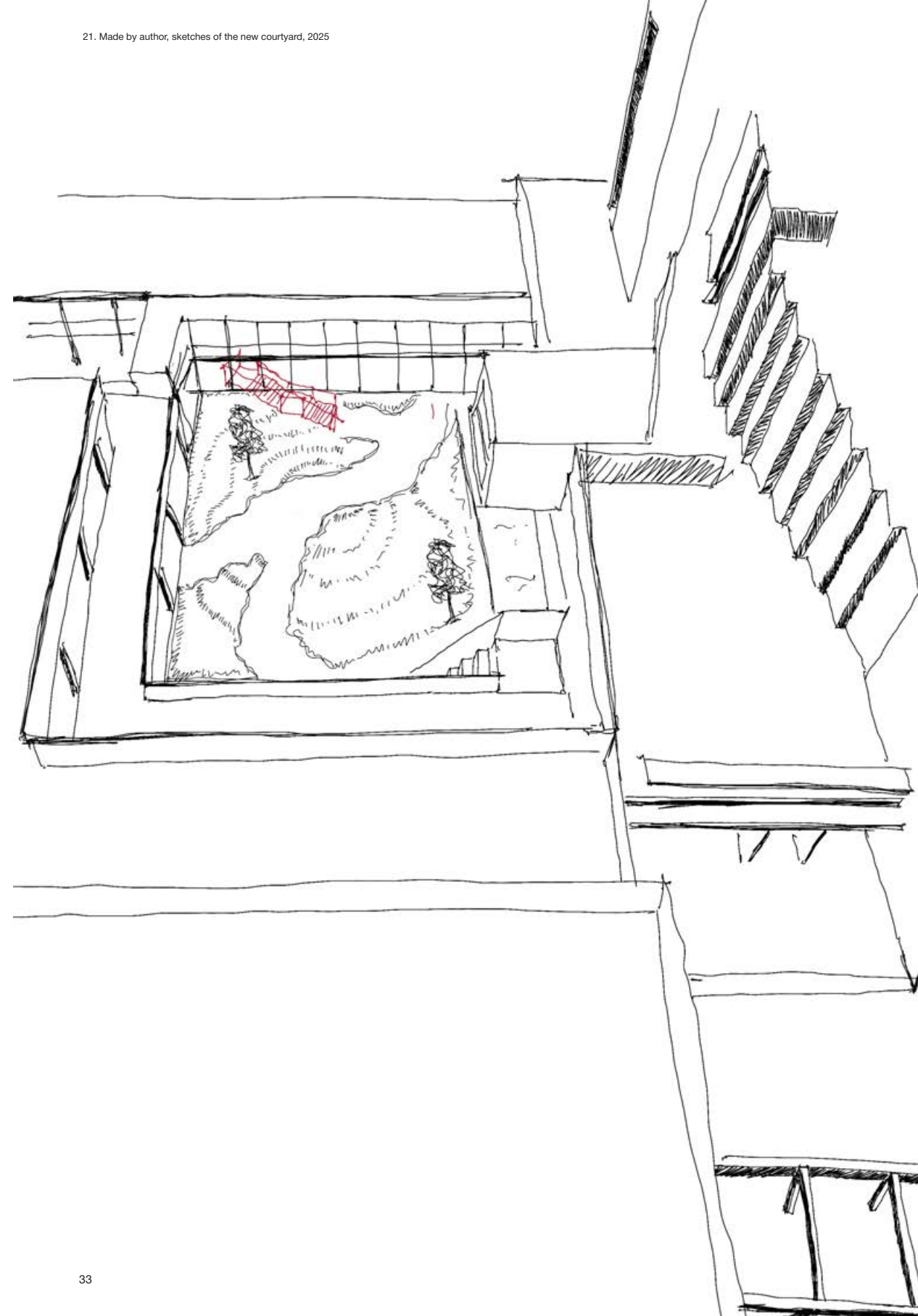
Terraces

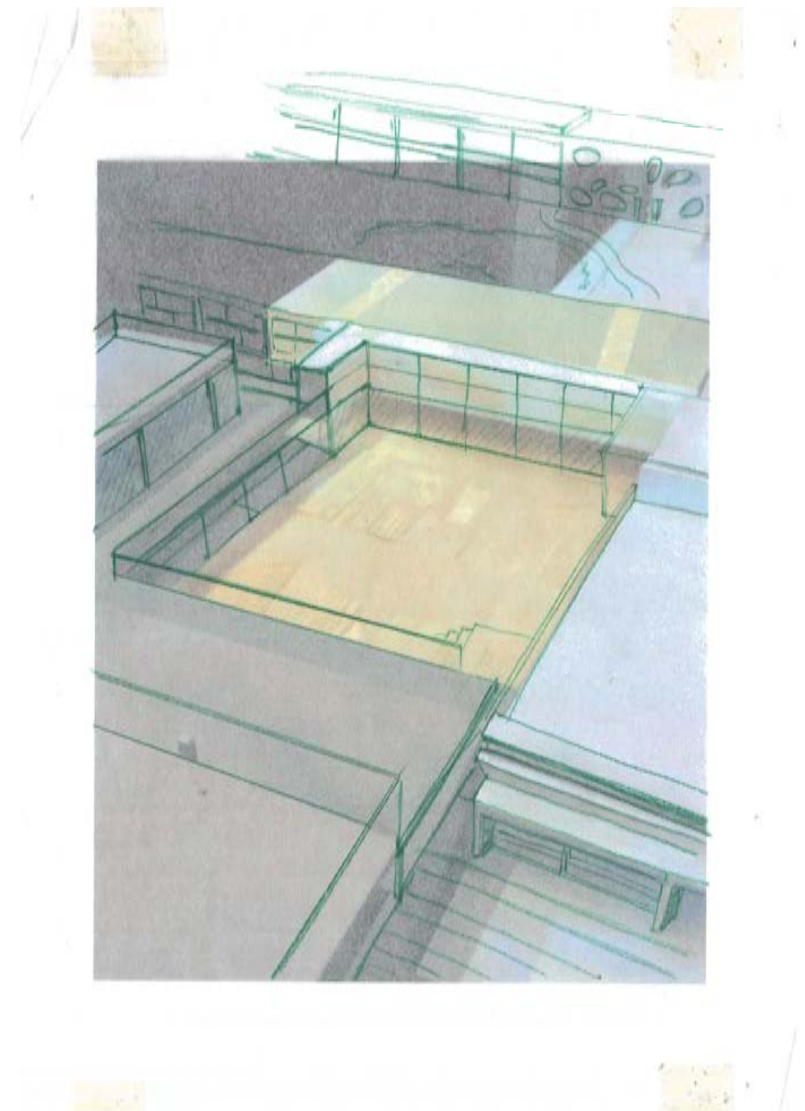
What I am trying to do with the terraces is somehow what Billie Tsien and Tod Williams describe as the “Long view” in the project “Neuroscience Institute” in La Jolla, California. There is the aim of defining what needs to be seen, by directing the view in specific moments that need to be enhanced, as for their relation between interior-outside and outside-outside relation. This concept of creating a sort of perspective illusion, hiding some elements of the landscape or somehow not making them as the main element that defines the landscape, mainly elements related to the motorway, therefore aiming for specific experience of the building.

This concept of framing from the inside to the outside could be defined as “interior landscape”, whose aim is to create a room an outside one, whose intention is to give a specific experience, as observed by Billie Tsien:

“Is more than a mark in the land. There’s the rootedness which happens from cutting away, making a hole in the land, and then there is the extension that has to do with the sky and that sense of infinite escape.”(Tsien 1999)

Described as a way in which the landscape is cut through with a knife by the designer, creating tension between the building and the view.





Role of the circulation

Considering that on DeSingel the main circulation floor is the first one in my addition I would like to follow this floor as the main one, hosting the most important public space of the building, the exhibition room. However, with the addition of a new courtyard there is the necessity of adding a relevant connection between the first and ground floor.

How can this connection happen? It is important for me to enhance the circulation between the floors to make it possible to experience the building as landscape, therefore bringing what once was outside inside the building. And experiencing the fine line between the interiors and the outside courtyards as one element.

To understand how this connection could happen I analyzed circulation of the Vyborg Central library by Alvar Aalto. Mainly to understand how the circulation from the ground floor to the entrance of the library happens,

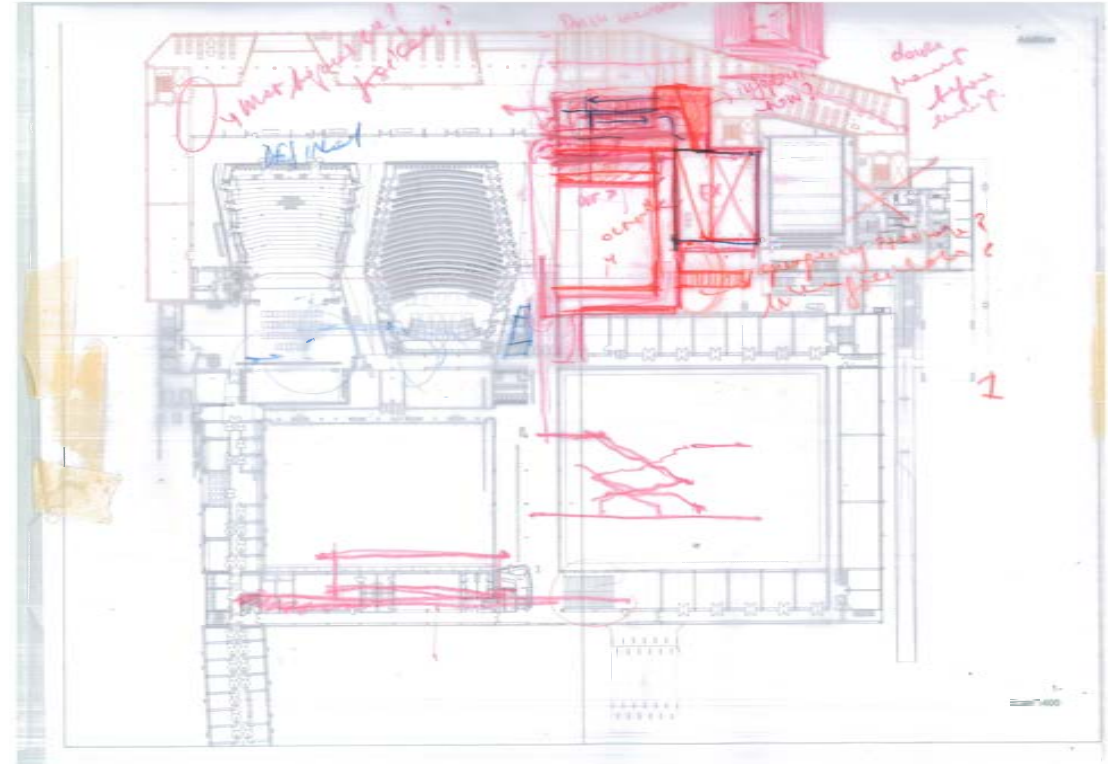
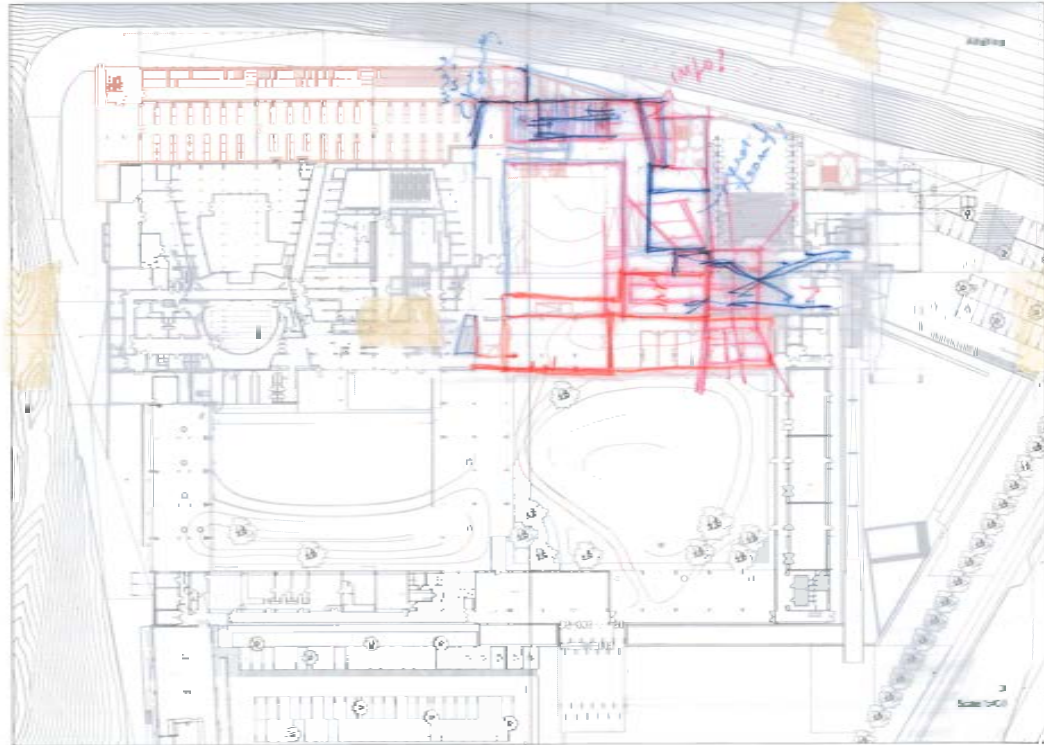


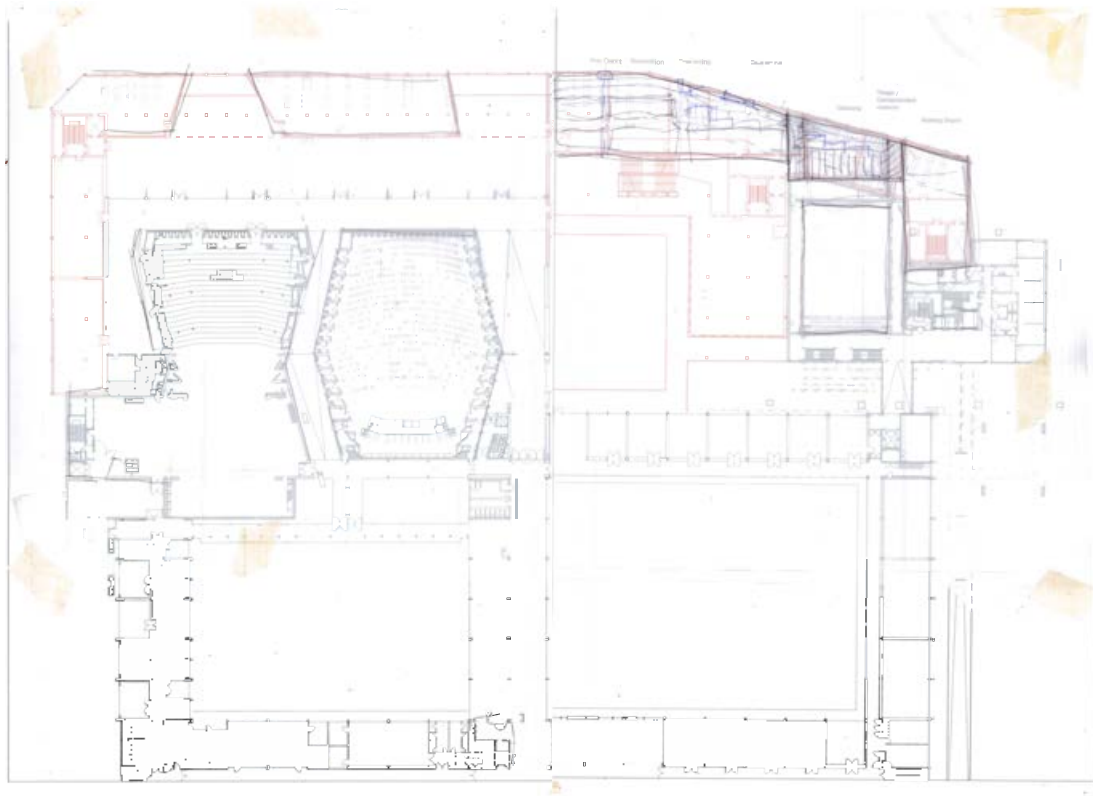
a well thought route that people are invited to follow to enter the library, passing through the library spaces even before entering the library.

The experience of the circulation is somehow similar to a landscape, or as Aalto identified it as a mountain with different levels that need to be reached to enter the library entrance at the top of it.

Therefore, by looking at this example I think its relevant say that for me it's important that the connection with the staircase needs to be well positioned, to not block the circulation but help it with a better experience of the interior landscape that I tried to reach with the design of the building.







Jurjen tutoring:

The plan should be more clear, you should concentrate on figuring out how can the second half of the building (around Beel) somehow relate to the existing, as what happens already in the Styren part in relation to the auditoriums.

Is it possible to reorganise it and not making it follow the Beel auditorium shape? Could it be straight? Therefore helping with the organisation of the inside space, rooms and furniture.

DeSingel as a microclimate

One of the main reasons DeSingel is located there has to do with the configuration of the site. When Stynen had the opportunity to choose where to build the edifice, this location matched his vision. The site sits on a hill, at the edge of the city, right where the 19th-century Antwerp ramparts used to be. At the time, the area was becoming more public—an attempt to integrate it into the city fabric rather than leave it as a leftover edge.

The hill, the swimming pool, the slope of the terrain, and the view over the newly developing parts of Antwerp formed a kind of perfectly framed urban moment. The tension between the old and the emerging gave Stynen a unique opportunity to shape his project freely, without the same constraints found in the dense city center, where plots are strictly defined from wall to wall.

This notion of a small piece of nature, where all these elements converge into a single building, was a key driver for Stynen’s concept. He sought to blur the line between architecture and landscape—this is visible in the courtyards that run beneath the building’s wings, the terraces, the reshaped hill, and even in the interior, where ramps offer a spatial experience that extends the landscape into the heart of the structure. The outside doesn’t end at the door—it flows inward.

That same idea continues in how people enter the building: from the main entrance, they’re led to the left and up a central staircase to the first floor—this connective spine where all the public functions meet. It forms an almost perfect double-loop circulation system that defines how the building is experienced.



Given all this, what kind of approach should I take in my addition? Should it aim to revive the original idea of the microclimate? Should it try to continue what the old building began?

In my view, returning to that initial configuration is nearly impossible. The landscape has been heavily affected by the motorway, which now makes it difficult to re-establish any meaningful outside connection.



The hill has lost its relevance; now it’s surrounded by noise, smells, and the constant presence of cars—not as fleeting and dynamic as imagined by futurist ideals, but rather stagnant in Ring traffic. So maybe the only way to deal with this is by retreating—an architectural AH-HA moment of hiding. There’s simply no better way to do it.

Yet, with the new addition I’m working on—through the reuse of the terraces as a kind of new courtyard, and the introduction of an actual courtyard—I believe there’s still a way to create microclimate moments. The existing “wall” already shelters these areas, helping to maintain cooler temperatures in summer (they both face south) and offering protection from wind in winter. Still, I think the relationship between outside and inside could be pushed even further. Warm and cold tones, materials, and the play of light—all of these could help define spaces that feel like a true continuation of the interior.



Acer palmatum “Arakawa”
Japanese Maple

	Hardiness Zones:	5-9
	Plant type:	Trees
	Plant family:	Sapindaceae
	Genus:	Acer
	Foliage:	palmate leaves with 5-7 slender tipped lobes
	Bark:	rough and corky, (3-5 years), creases, cracks and fissures, part of the landscape ornament
	Exposure:	full sun, partial sun
	Season of interest:	spring (early, mid, late), summer (early, mid, late), autumn
	Colours:	fresh green leaves in spring, changes to golden yellow in autumn
	Height:	6.1m - 7.6m
	Spread:	5.5m - 6.1m
	Maintenance:	Low maintenance, this plant needs little pruning. If pruning is necessary, prune during the dormant season and avoid pruning in spring when the sap is running. Fertilize in spring before the leaves emerge.
	Water need:	Avarage
	Soil type:	Chalk, Clay, Loam, Sand
	Soil PH:	Acid, Neutral
	Soil Drainage:	Moist but Well-Drained

Acer palmatum “Ariadne”
Japanese Maple

	Hardiness Zones:	5-9
	Plant type:	Shrubs, Trees
	Plant family:	Sapindaceae
	Genus:	Acer
	Foliage:	palmate leaves with 5-7 slender tipped lobes
	Bark:	rough and corky, (3-5 years), creases, cracks and fissures, part of the landscape ornament
	Exposure:	full sun, partial sun
	Season of interest:	spring (early, mid, late), summer (early, mid, late), autumn
	Colours:	coppery orange-pink with green veins in spring, purplish with red veins in summer, and orange-pink back in fall.
	Height:	1.80m - 3m
	Spread:	3m - 3.7m
	Maintenance:	Low maintenance, this plant needs little pruning. If pruning is necessary, prune during the dormant season and avoid pruning in spring when the sap is running.
	Water need:	Avarage
	Soil type:	Chalk, Clay, Loam, Sand
	Soil PH:	Acid, Neutral
	Soil Drainage:	Moist but Well-Drained

Salvia nemorosa “Caradonna”
Salvia x sylvestris “Caradonna”

	Hardiness Zones:	4-9
	Plant type:	Perennials
	Plant family:	Lamiaceae
	Genus:	Salvia
	Common name:	Sage
	Exposure:	full sun
	Season of interest:	spring (late), summer (early, mid)
	Colours:	dark purple stems with violet-blue folwers. Grows in round clumps of grey-green, aromatic foliage.
	Height:	0.3m - 0.6m
	Spread:	0.3m - 0.6m
	Spacing:	0.5 - 0.6m
	Maintenance:	Low
	Water need:	Avarage
	Soil type:	Chalk, Loam, Sand
	Soil PH:	Acid, Alkaline, Neutral
	Soil Drainage:	Moist but Well-Drained , Well-Drained
	Attracts:	Bees, Butterflies, Humming-birds
	Tolerance:	Drought



Achillea “Terracotta”
Yarrow

	Hardiness Zones:	3-9
	Plant type:	Perennials
	Plant family:	Compositae
	Genus:	Achillea
	Common name:	Yarrow, Ahillea
	Exposure:	full sun
	Season of interest:	summer (early, mid, late)
	Colours:	semi-evergreen, masses of long-lasting clusters of a peachy yellow flowers, aromatic, green-gray fern-like foliage.
	Height:	0.6m - 0.9m
	Spread:	0.3m - 0.6m
	Spacing:	0.3 - 0.5m
	Maintenance:	Low
	Water need:	Low
	Soil type:	Chalk, Loam, Sand
	Soil PH:	Acid, Alkaline, Neutral
	Soil Drainage:	Moist but Well-Drained , Well-Drained
	Attracts:	Bees, Butterflies
	Tolerance:	Drought, dry soil

Anemanthele lessoniana
New Zealand Wind Grass

	Hardiness Zones:	8-10
	Plant type:	Ornamental Grasses
	Plant family:	Poaceae
	Genus:	Stipa
	Exposure:	full sun, partial sun
	Season of interest:	spring (early, mid, late), summer (early, mid, late), autumn, winter
	Colours:	semi evergreen, dark green during spring and summer, turns into gold, copper and bronze shades during fall and winter
	Height:	0.6m - 0.9m
	Spread:	0.6m - 0.9m
	Spacing:	0.9m
	Maintenance:	Low
	Water need:	Low
	Soil type:	Chalk, Clay, Loam, Sand
	Soil PH:	Acid, Alkaline, Neutral
	Soil Drainage:	Moist but Well-Drained , Well-Drained
	Attracts:	Birds

Stipa tenuissima
Mexican Feather Grass

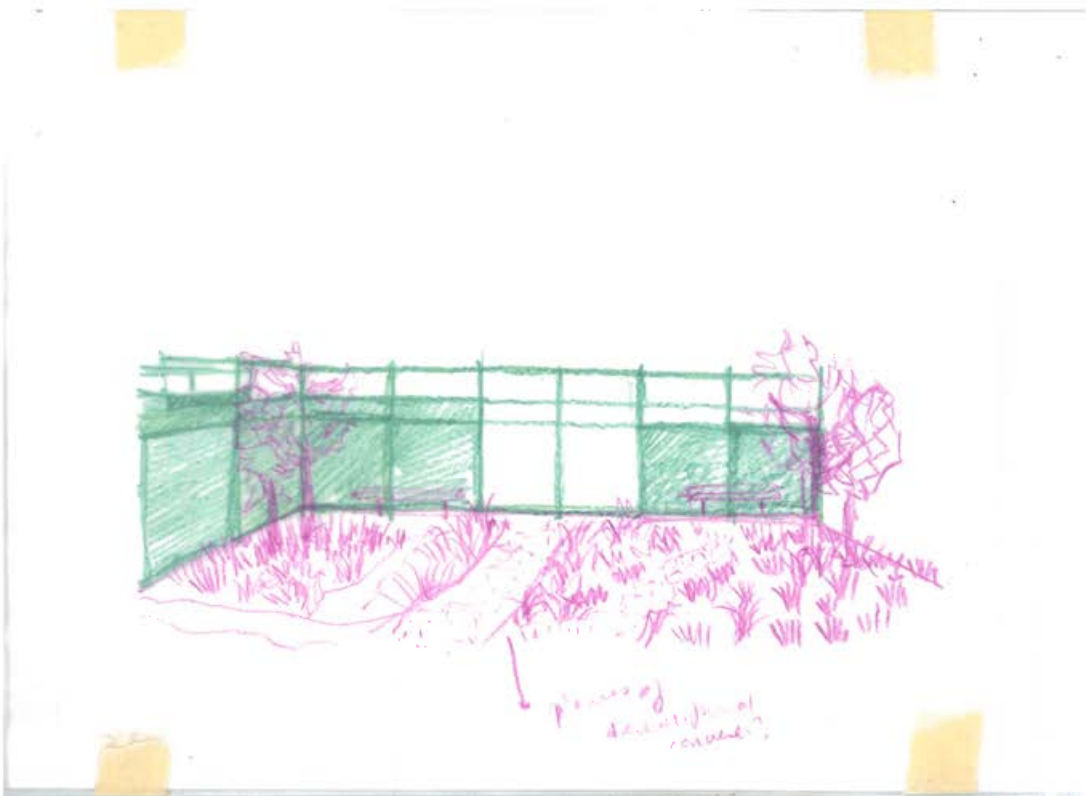
	Hardiness Zones:	7-11
	Plant type:	Ornamental Grasses
	Plant family:	Poaceae
	Genus:	Stipa
	Exposure:	full sun
	Season of interest:	spring (early, mid, late), summer (early, mid, late), autumn
	Colours:	spring and summer silvery green, turns, golden brown in autumn, silky texture
	Height:	0.3m - 0.6m
	Spread:	0.3m - 0.6m
	Spacing:	0.3m -0.6m
	Maintenance:	Low
	Water need:	Low, Avarage
	Soil type:	Chalk, Clay, Loam, Sand
	Soil PH:	Acid, Alkaline, Neutral
	Soil Drainage:	Moist but Well-Drained , Well-Drained

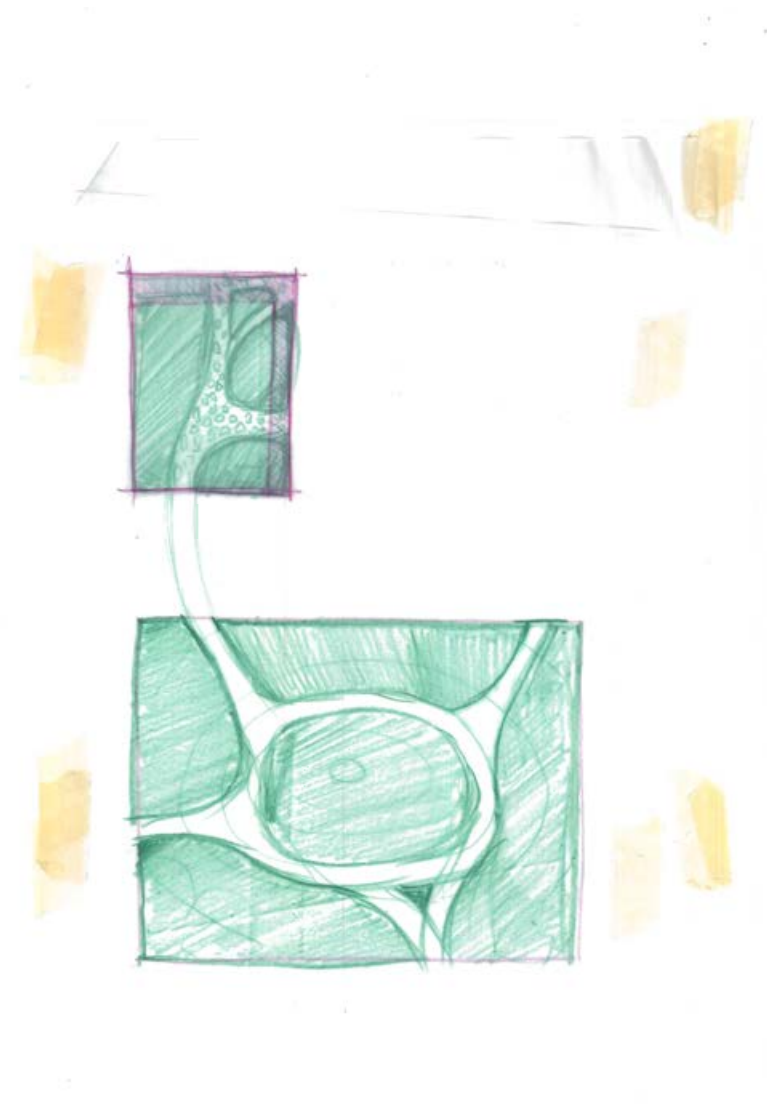
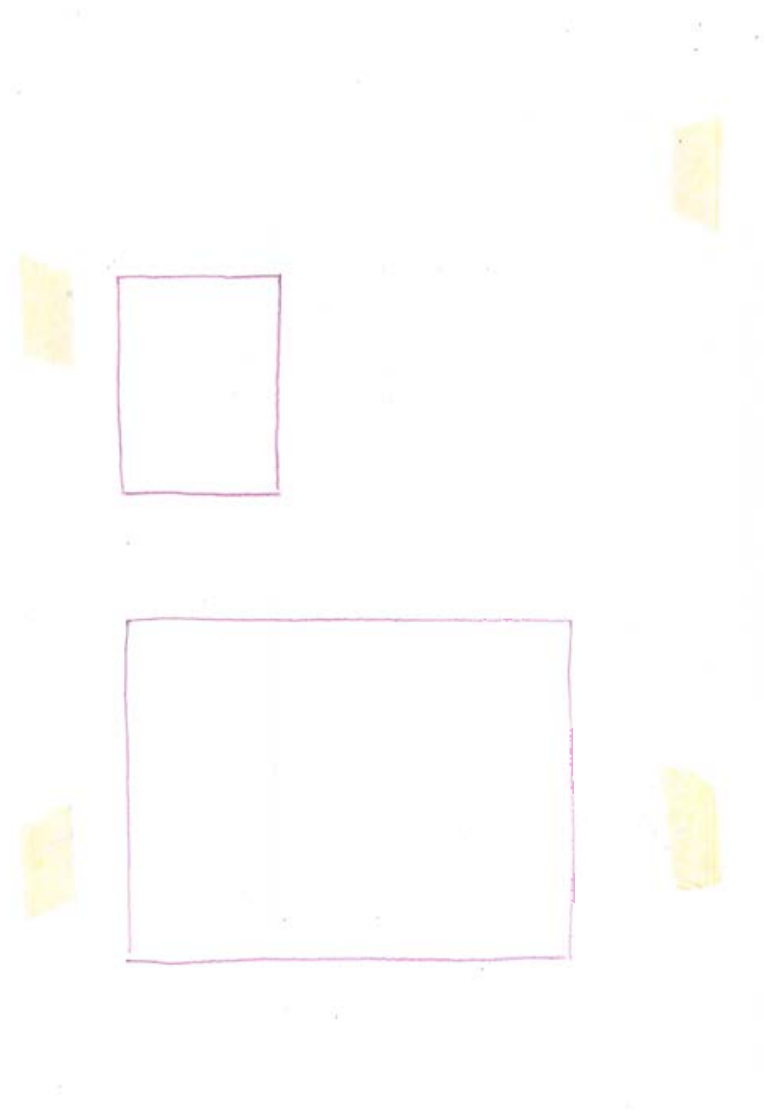
Leucanthemum vulgare
Ox-Eye Daisy

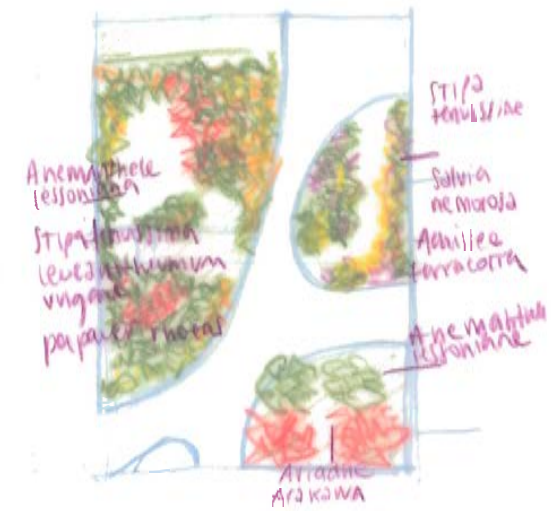
	Hardiness Zones:	3-9
	Plant type:	Perennials
	Plant family:	Compositae
	Genus:	Leucanthemum
	Common name:	Daisy, Marguerite
	Exposure:	full sun, partial sun
	Season of interest:	spring (late), summer (early, mid, late)
	Colours:	whitedaisy flowers with golden yellow centres, atop a lush basal rosette of dark green leaves.
	Height:	0.3m - 0.6m
	Spread:	0.3m - 0.6m
	Spacing:	0.3 - 0.6m
	Maintenance:	Low
	Water need:	Avarage
	Soil type:	Chalk, Clay, Loam, Sand
	Soil PH:	Acid, Alkaline, Neutral
	Soil Drainage:	Moist but Well-Drained
	Attracts:	Butterflies
	Tolerance:	Dry soil

Papaver rhoeas
Flanders Poppy

	Hardiness Zones:	3-9
	Plant type:	Annuals
	Plant family:	Papaveraceae
	Genus:	Papaver
	Common name:	Poppy, Red Weed, Corn Rose, Coquelicot
	Exposure:	full sun
	Season of interest:	spring (late), summer (early)
	Colours:	wildflower, red flowers (7-10cm wide), atop long hairy stems and pinnately lobed, cut or toothed, hairy leaves.
	Height:	0.3m - 0.6m
	Spread:	0.15m - 0.3m
	Spacing:	0.15 - 0.23m
	Maintenance:	Low
	Water need:	Avarage
	Soil type:	Chalk, Loam, Sand
	Soil PH:	Acid, Alkaline, Neutral
	Soil Drainage:	Well-Drained











42. Made by author, main existing courtyard, 2025
43, 44. Made by author, view from main existing courtyard towards the second existing one, 2025



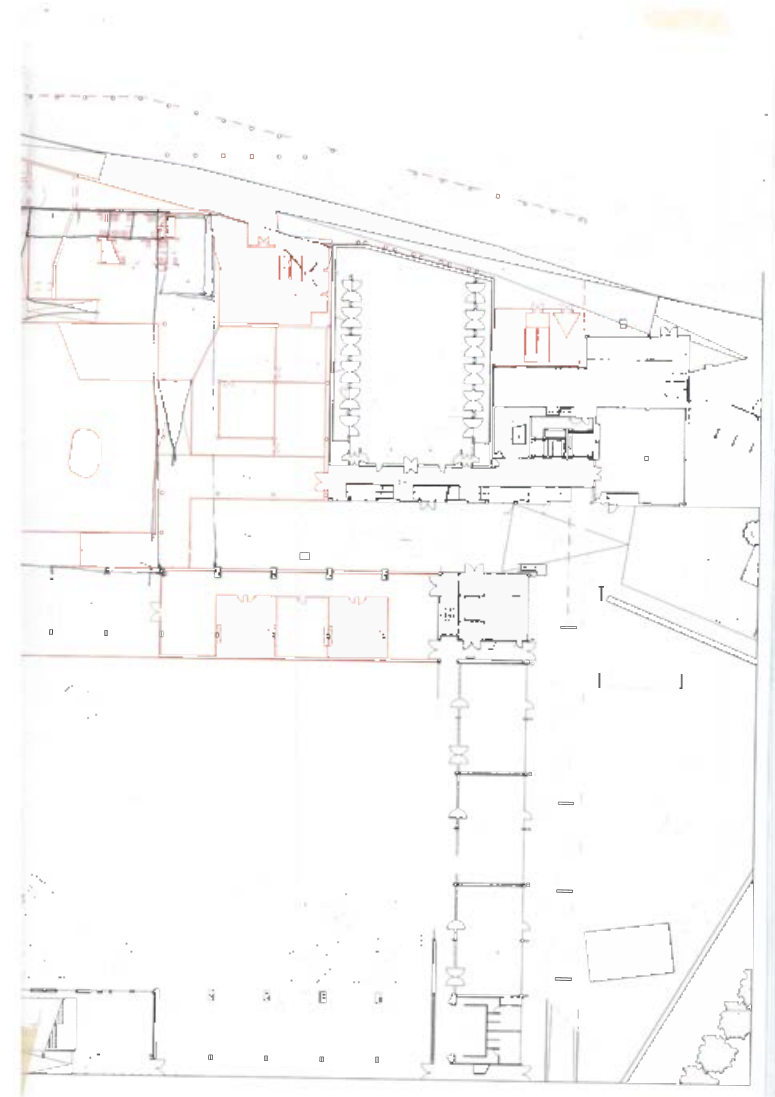
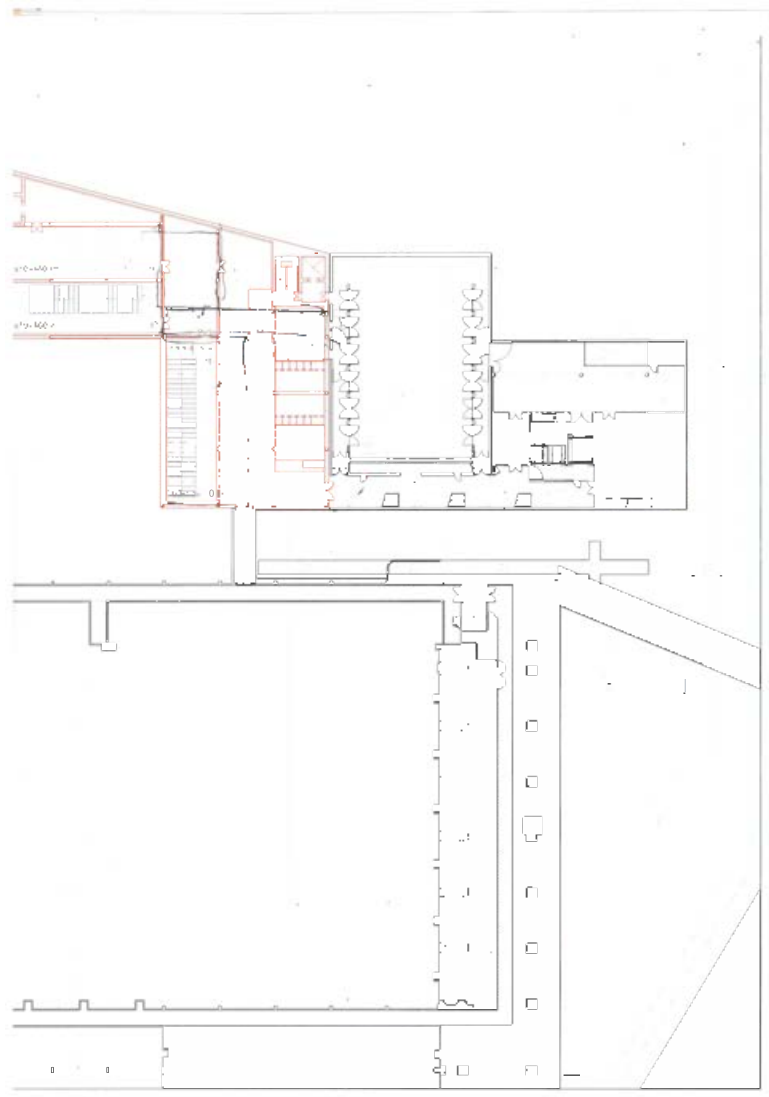
45. Made by author, view under the Synen wing, towards second courtyard, 2025
46. Made by author, view under the Synen wing, towards main courtyard, 2025

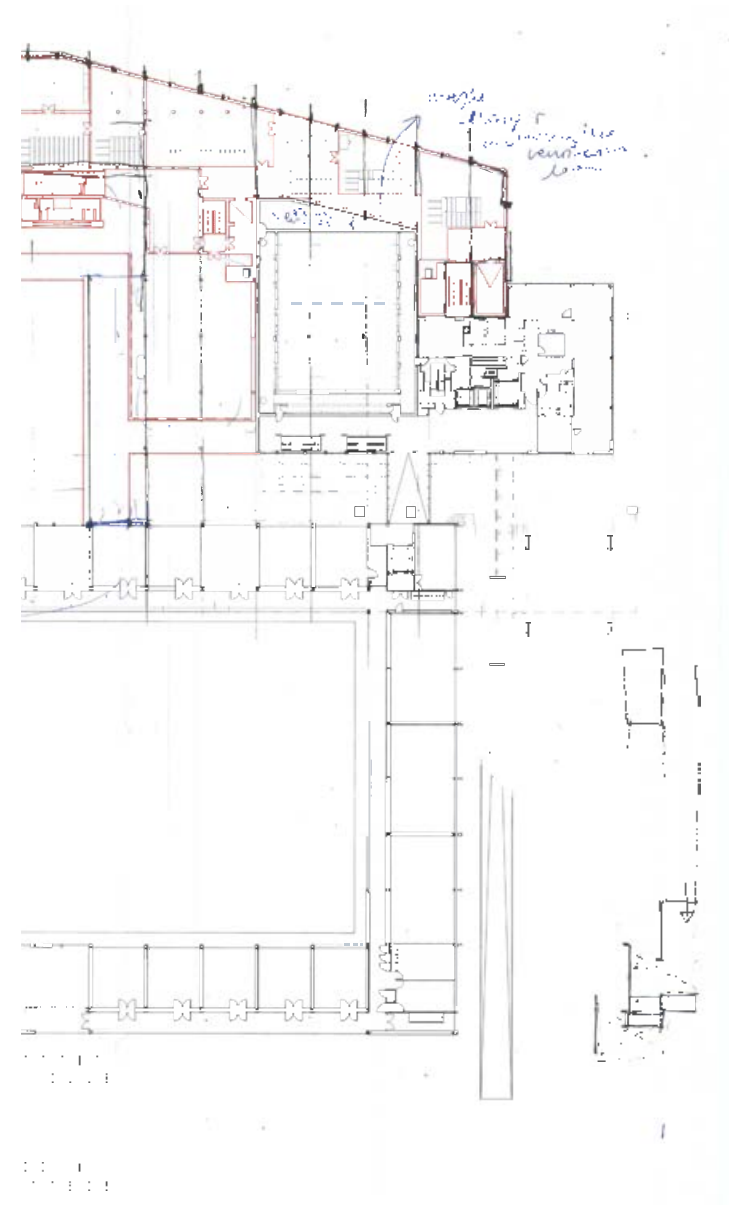
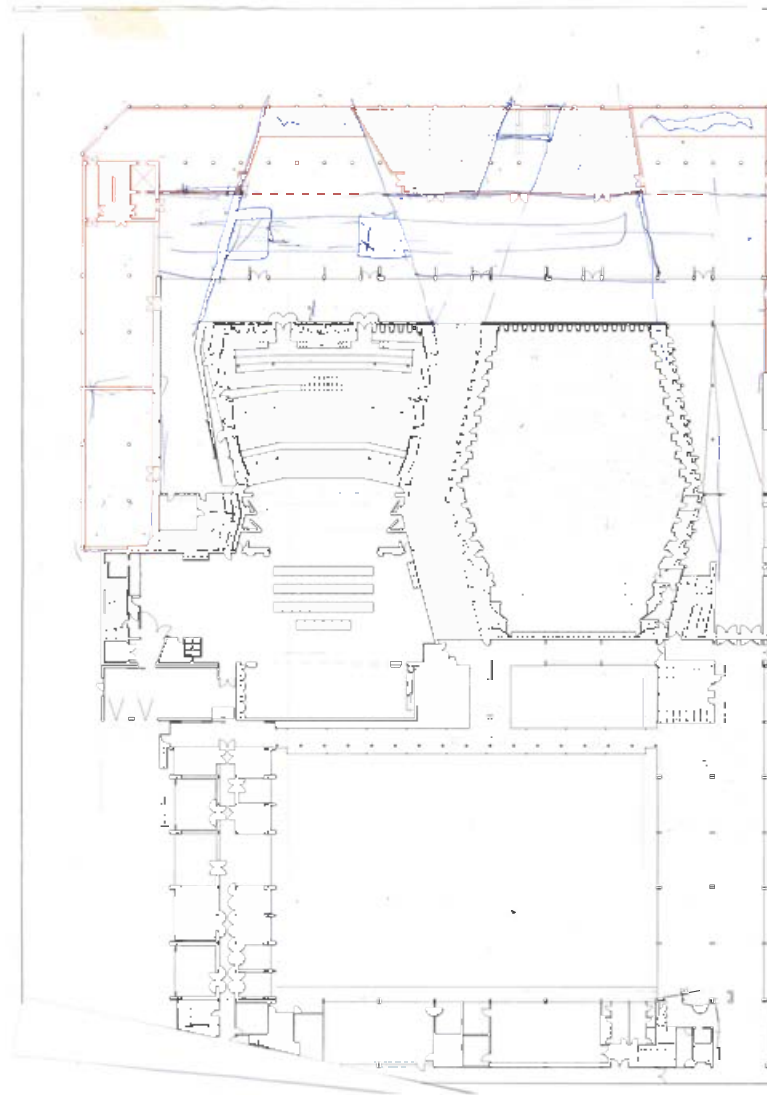








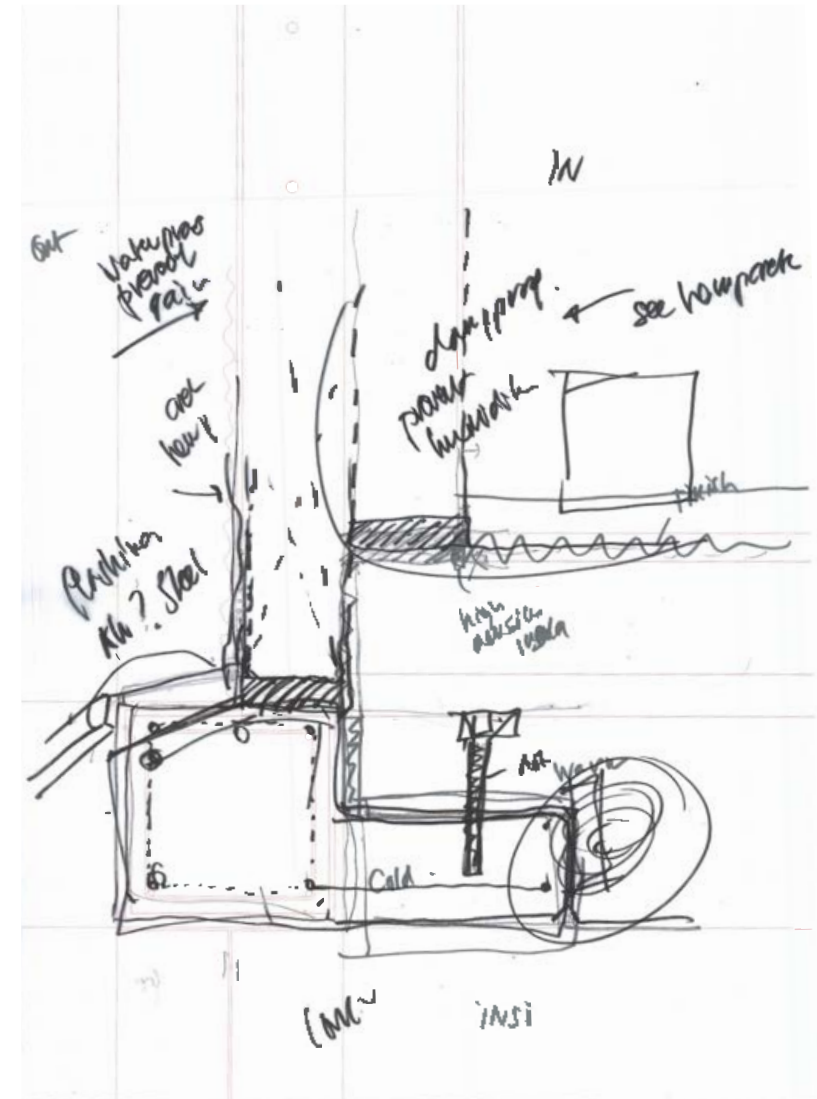
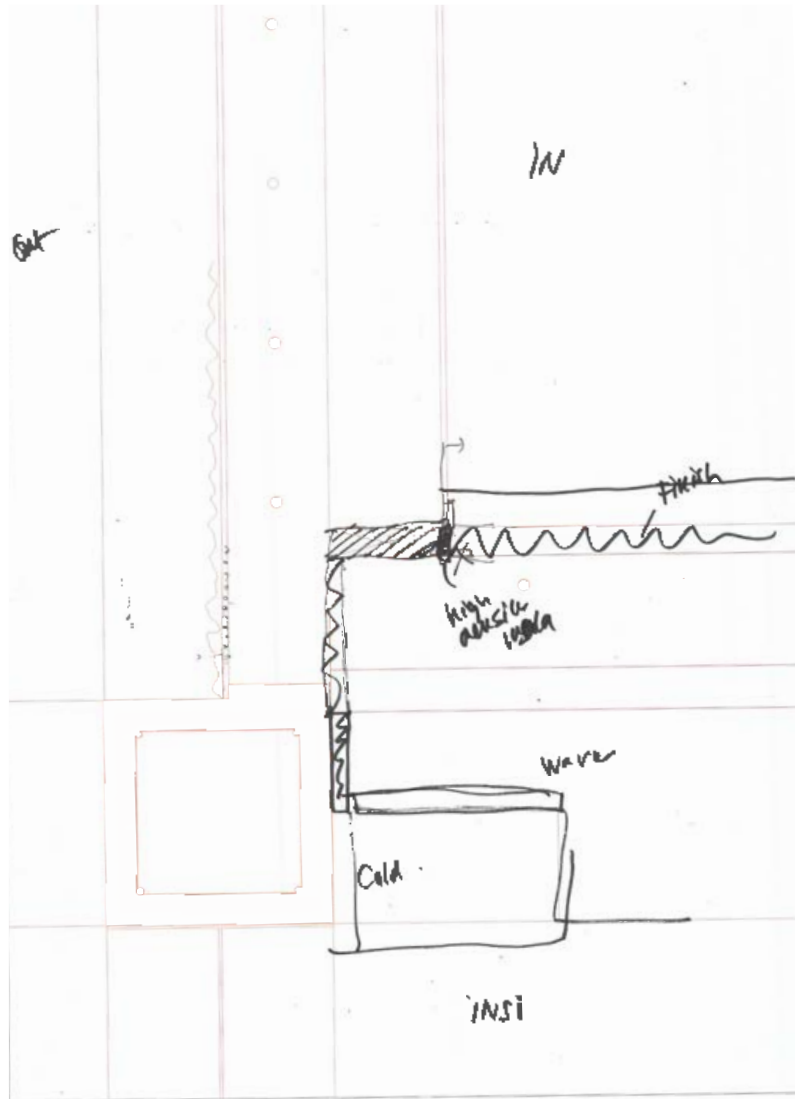




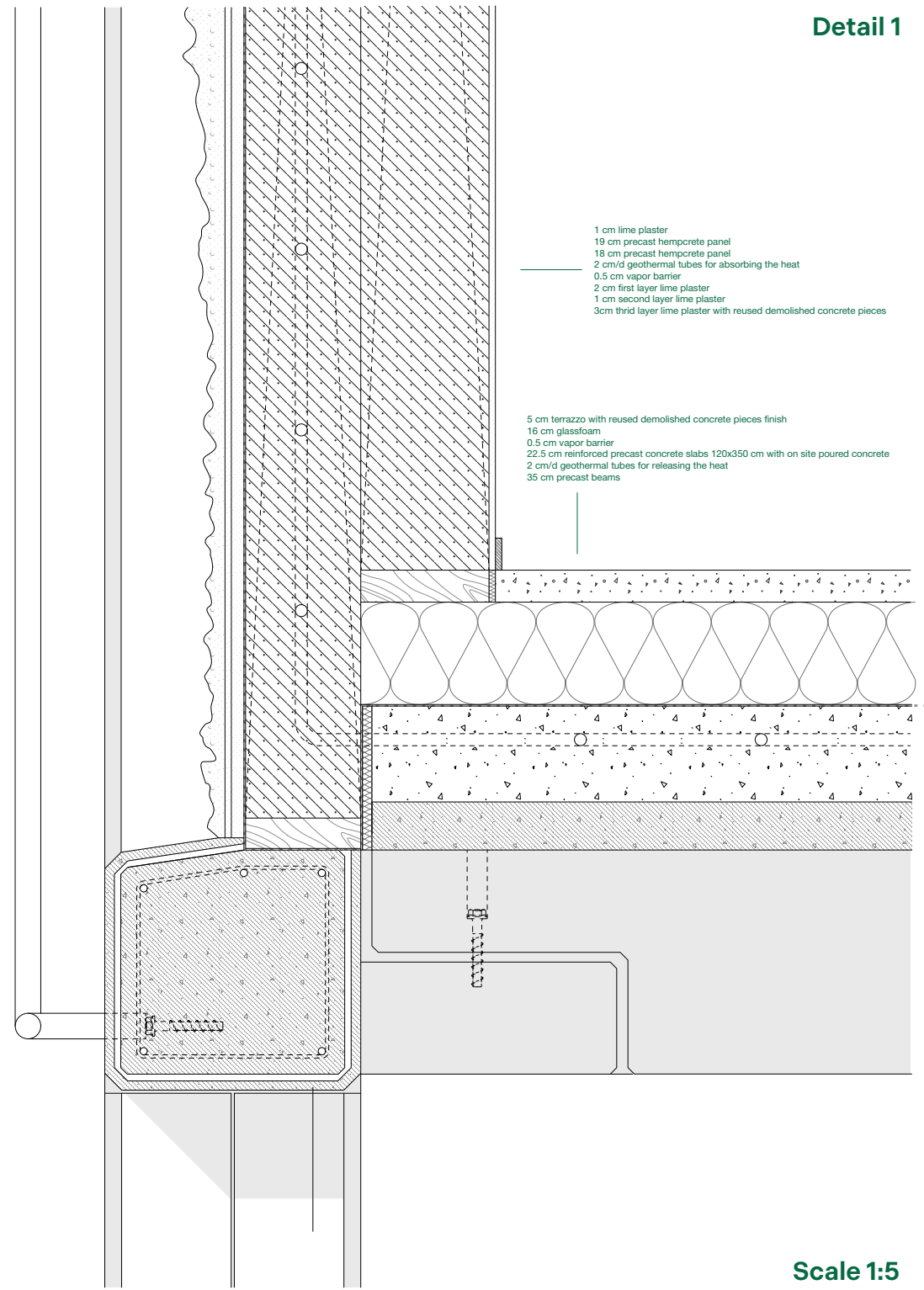




How can the materiality of the different facade elements enhance the whole concept of the building?



Detail 1



Scale 1:5





61. Made by author, view from low Beel towards highway, 2025
62. Made by author, view from back street towards highway, 2025







On Highway E34: The Ring Road

As already mentioned, DeSingel's relationship with its landscape has evolved significantly over the years, beginning with the original idea that the terraces on the south façade would open toward the landscape — embodying the modernist aim of connecting architecture with nature.

However, considering its position on the outskirts of the city, the plot selected by Stynen became an “in-between” moment between the city and the ring road, also known as the E34. This shift took place during the construction of the first phase (1963–67), as the E3 works began in 1965.

This new interaction with the highway profoundly changed the perception of the exterior space — the microclimate that initially motivated Stynen's choice — and transformed the relationship between the building and the broader city. In particular, the role of the terraces changed most significantly: originally conceived as a space offered to the public, intended as a place where anyone could take a break from the city. Nonetheless, the terraces were still constructed during the second phase, even though the original view of nature had been replaced by the view of the highway.

What may not have been fully anticipated was how the role of the highway itself would evolve over time. In its early days, the highway remained a largely empty, non-inhabited space — a kind of deserted element that created a barrier between the building and the surrounding landscape.

Over the years, however, the highway's role shifted: from the appealing, futuristic ideal of the “royal road of the future” (Delalex and Moreau 2023) to an underdeveloped fragment within the urban fabric.

What was once considered one of the greatest inventions of the twentieth century gradually became a monotonous landscape where people pass through, get stuck in traffic, stop at gas stations, and eventually reach their destinations.

In some ways, it could be compared to an open airport: an exterior public interior that remained underdeveloped, framed by unattractive building façades. It fails to offer a meaningful experience — not only because of the views but also due to the constant noise, which affects both the highway itself and the

adjacent buildings. DeSingel stands as an example of this transformation.

This is where my project finds its meaning.

Its role, situated along the highway, is to offer something different to the public: a façade that lies somewhere between nature and architecture. At the same time, it aims to shield the interior spaces from the negative effects of the highway environment.



65. Made by author, view from back street towards highway, 2025

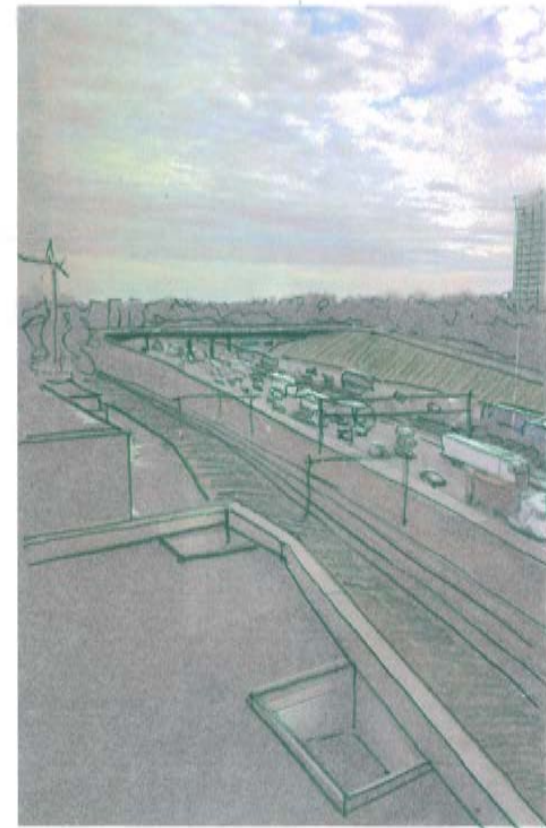


66. Made by author, view from back street towards highway, 2025



“The non-places, these are as much the installations necessary for the accelerated circulation of people and goods (expressways, interchanges, airports) as the means of transport themselves or the large commercial centers, or even the camps of transsit prologé where the refugees of the planet are parked.”

(Augé, 1992)

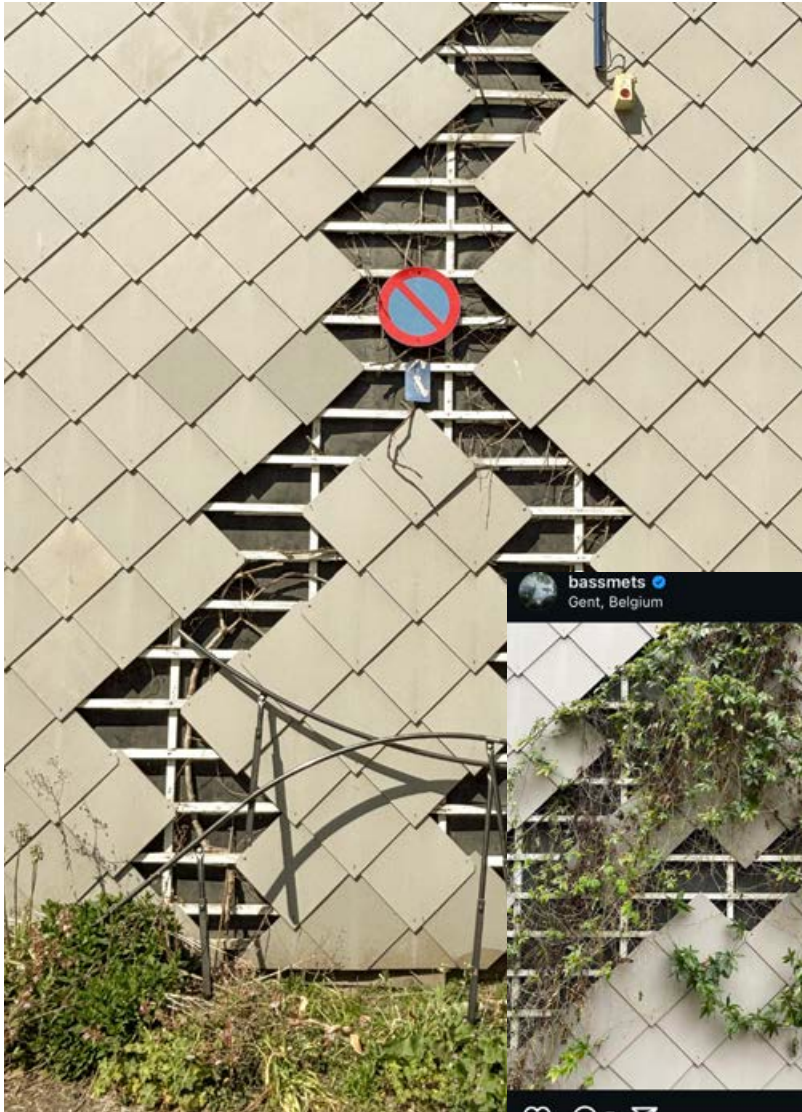


HOW NATURE SHAPES ARCHITECTURE



GARDENS IN THE CITY

BELGIUM



**bassmets** •
Gent, Belgium





Liked by **errantearchitettura** and others

bassmets BBS003 Gent Bijloke H&L
We removed concrete tiles to make space for climbing plants that use the wooden lattice as a support
[#earlywork](#) [#greenwall](#) [#jandevylder](#)
[#lesballetscdelabandlod](#)
8 January 2020

92

93

week 4.2

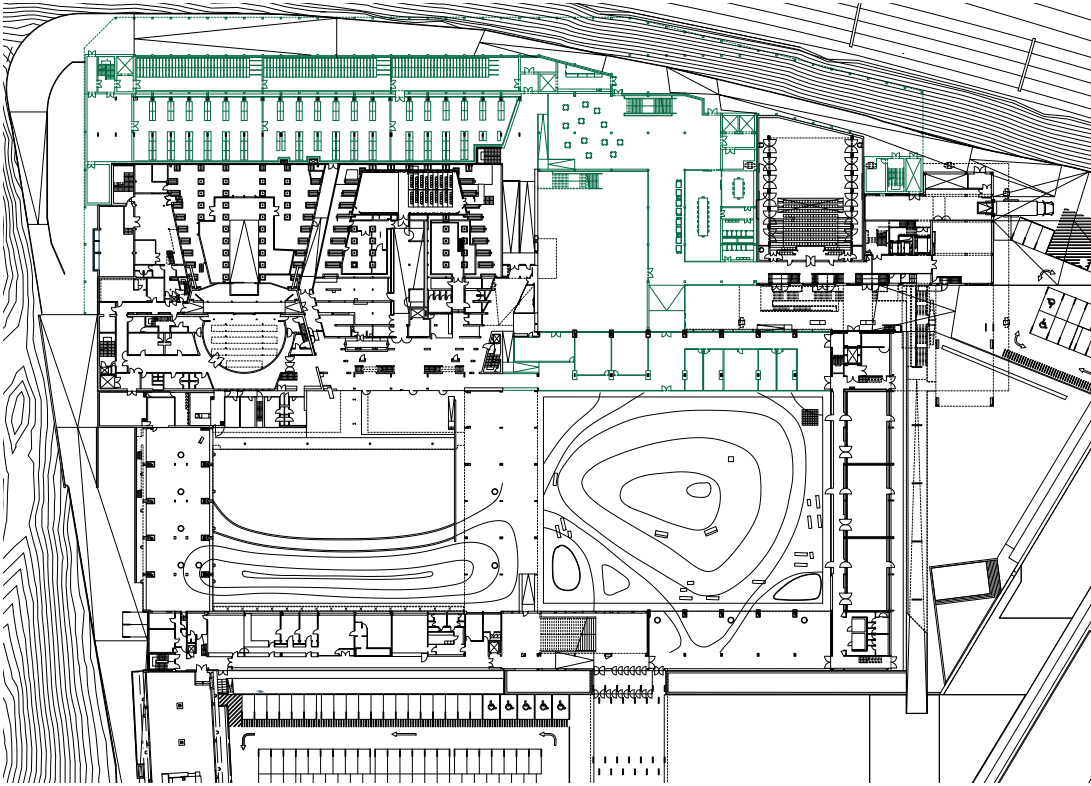
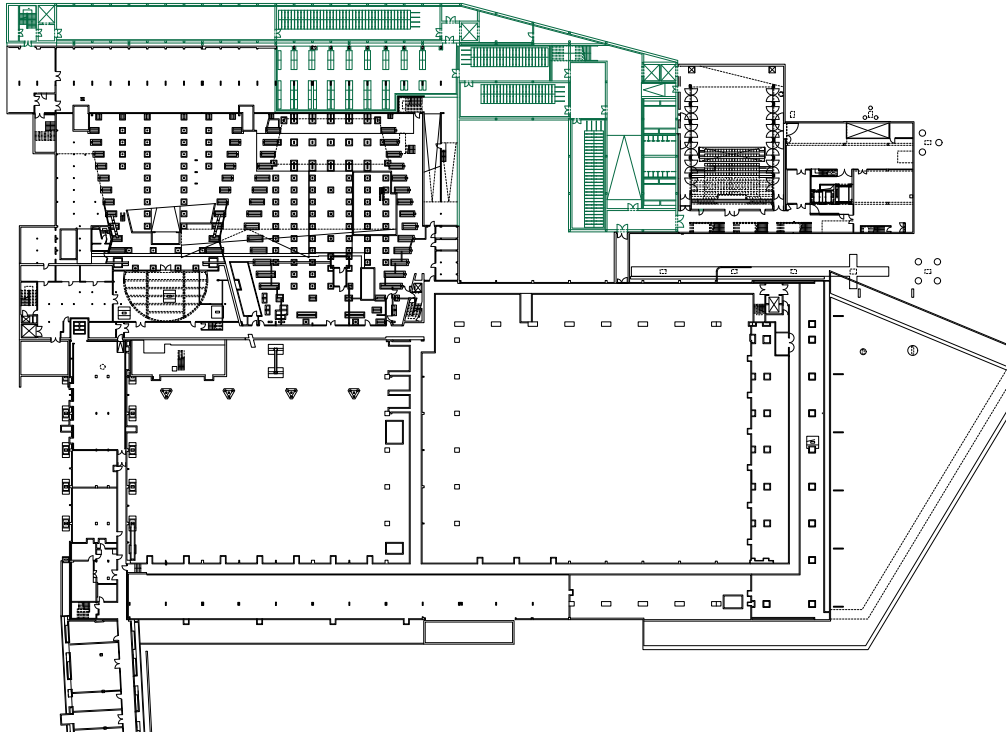


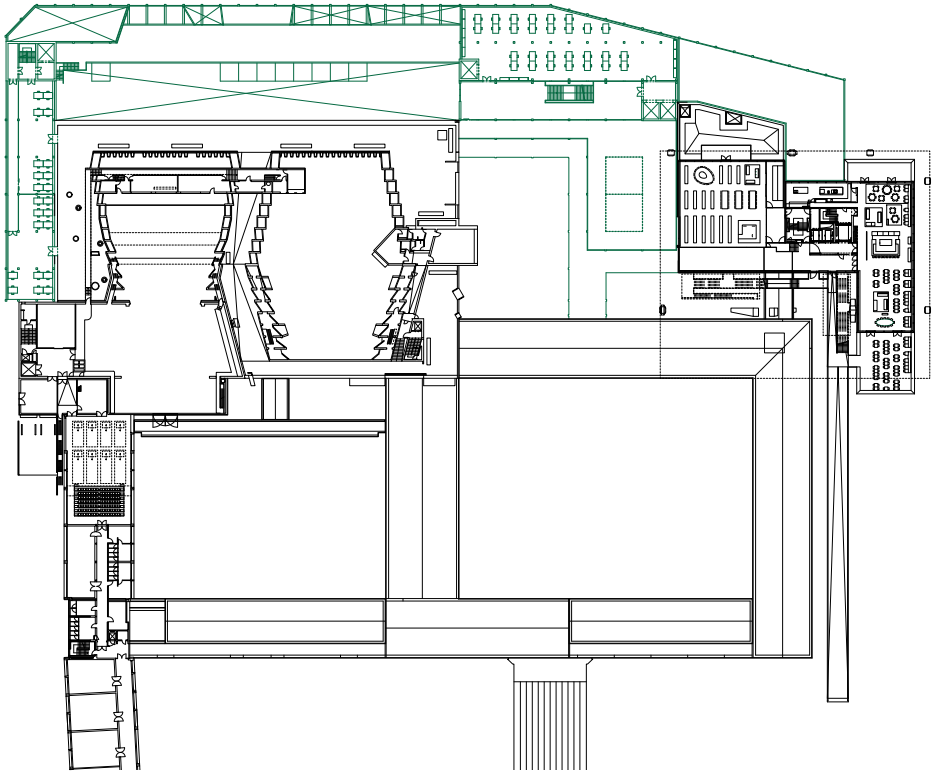
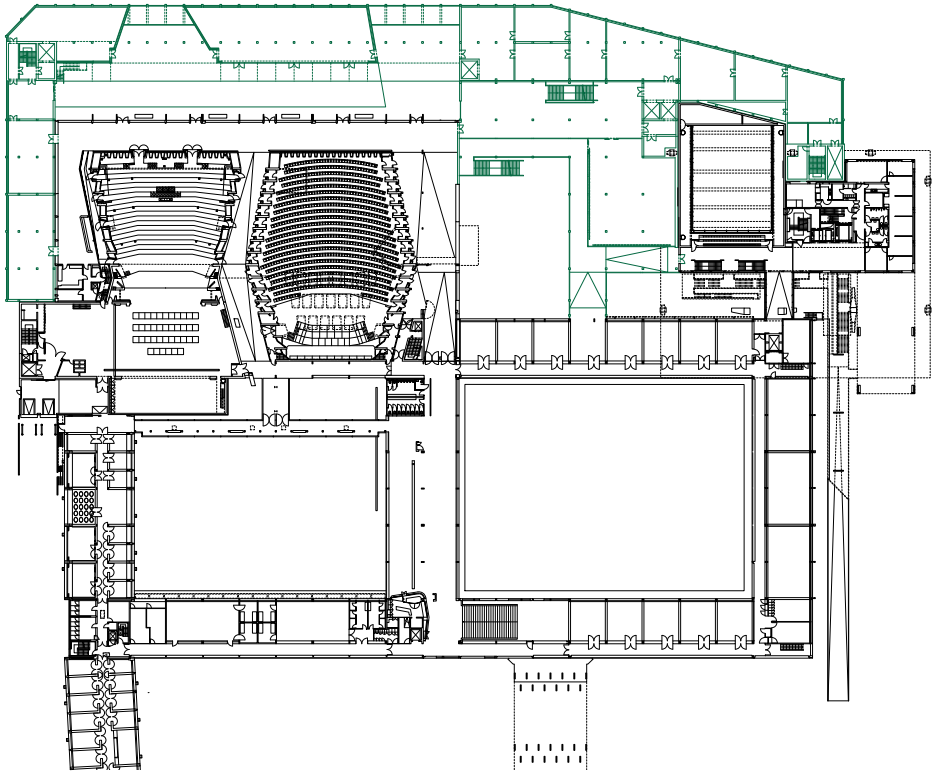












On Structure and Facade

During my research on possible materials and ways of designing the façade, I always wanted a clearly defined main structure, something akin to a retaining wall, with an infill that could vary along the entire façade. This desire for a flexible, adaptable structure is one of the main reasons why I chose precast concrete for the façade.

A precast concrete structure offers the potential for future modifications, meaning that, if needed, the archive could be expanded with additional floors without requiring a complete overhaul of the main structure. This flexibility is a key advantage.

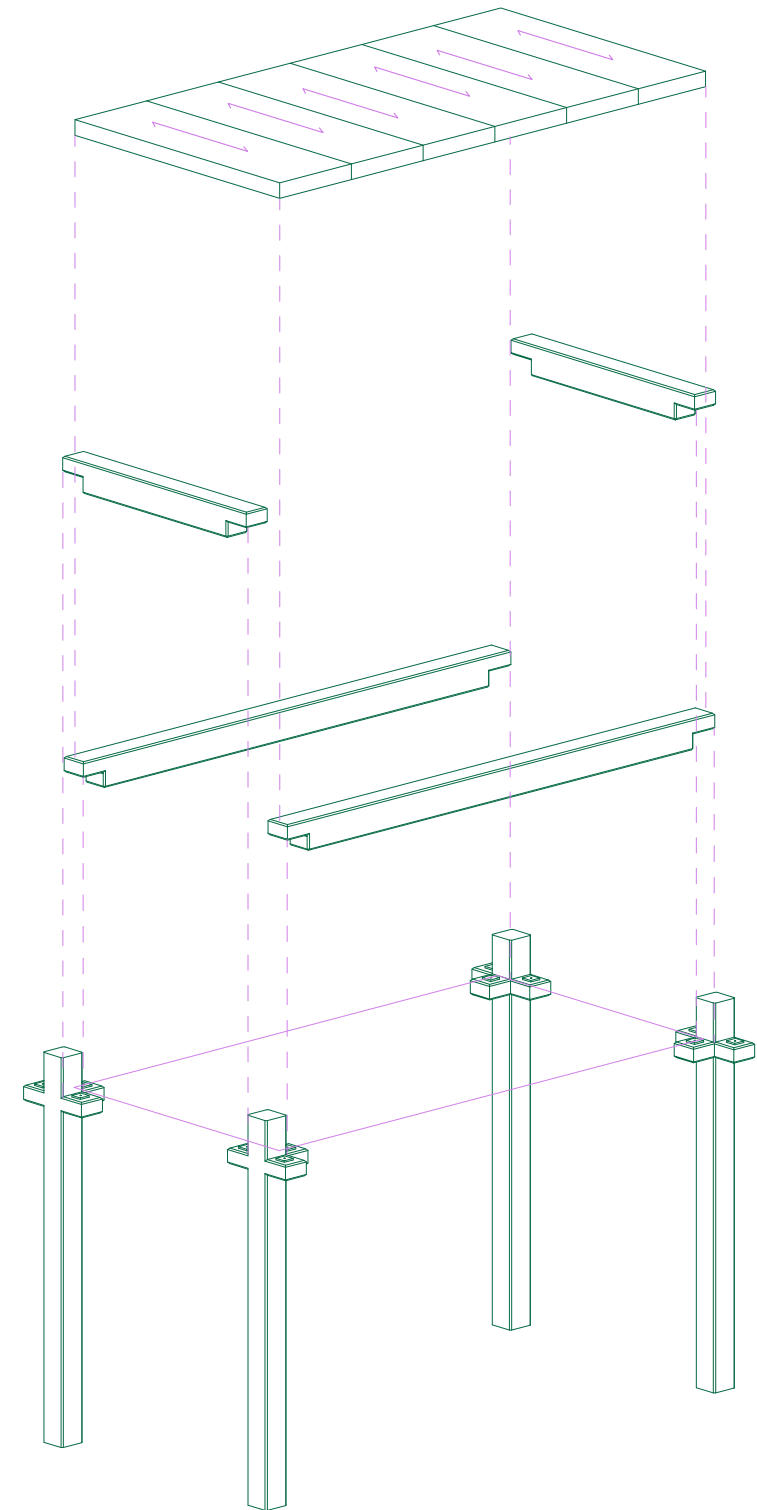
But why precast concrete specifically?

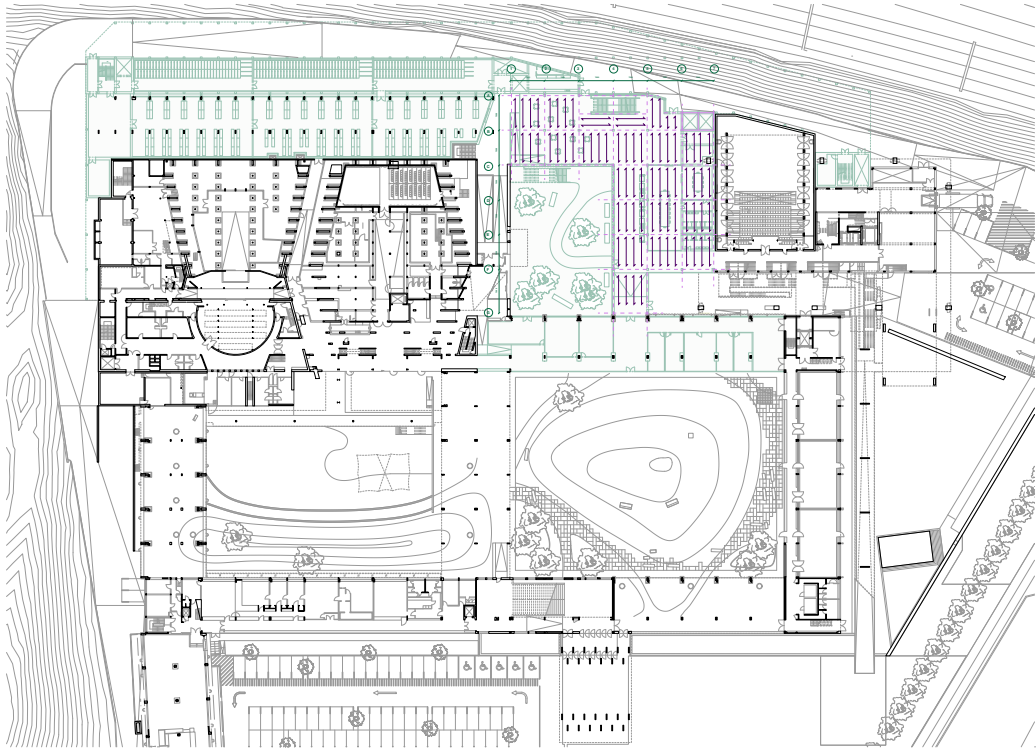
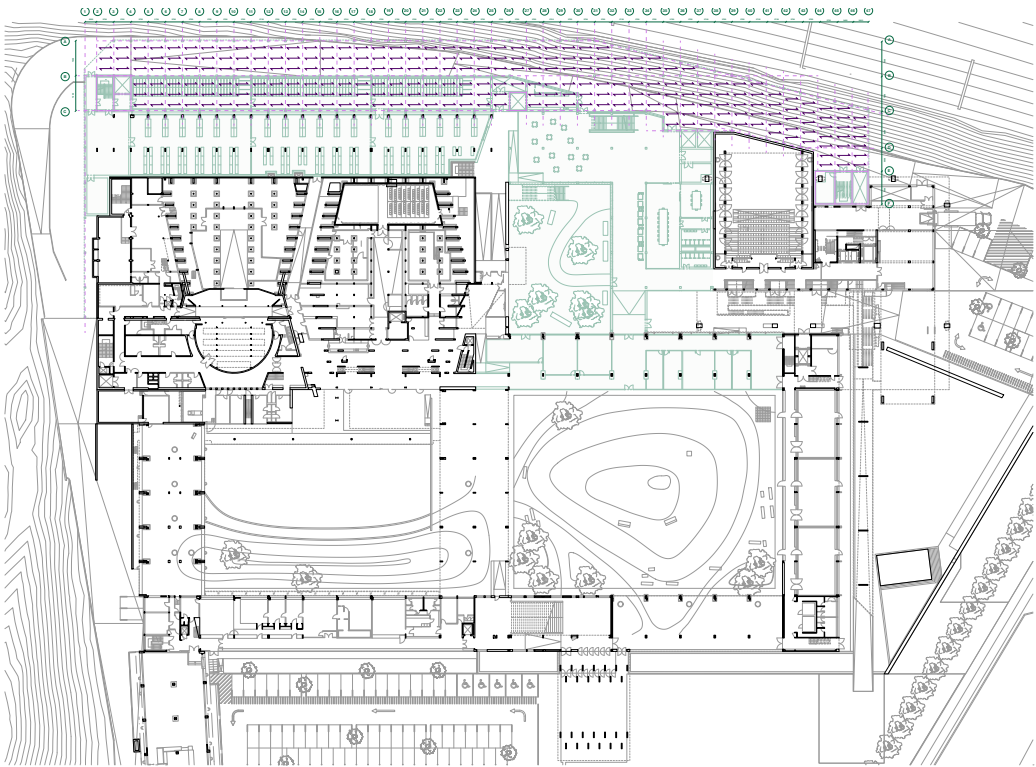
Firstly, the back street of the site required a passageway for trucks, essentially creating a tunnel-like space. I wanted to keep this passage open, similar to the tunnels often seen in alpine regions. Precast concrete columns allow me to achieve this by creating a sequence of repeating elements, reminiscent of the existing Stynen façade, while maintaining structural openness and rhythm.

Additionally, the brutalist character of the exposed concrete aligns with my desire to make the building's structural logic visible, expressing the load-bearing elements as a clear architectural statement from both the interior and exterior. This also allows the structure to engage in a dialogue with the nearby highway, presenting concrete not just as a utilitarian material, but as a meaningful part of an architectural composition. Precast concrete also has significant sustainability benefits. It is produced in a controlled environment, resulting in less waste and allowing for the reuse of molds. Moreover, the mix can include supplementary cementitious materials, like natural pozzolans, which help reduce the carbon footprint.

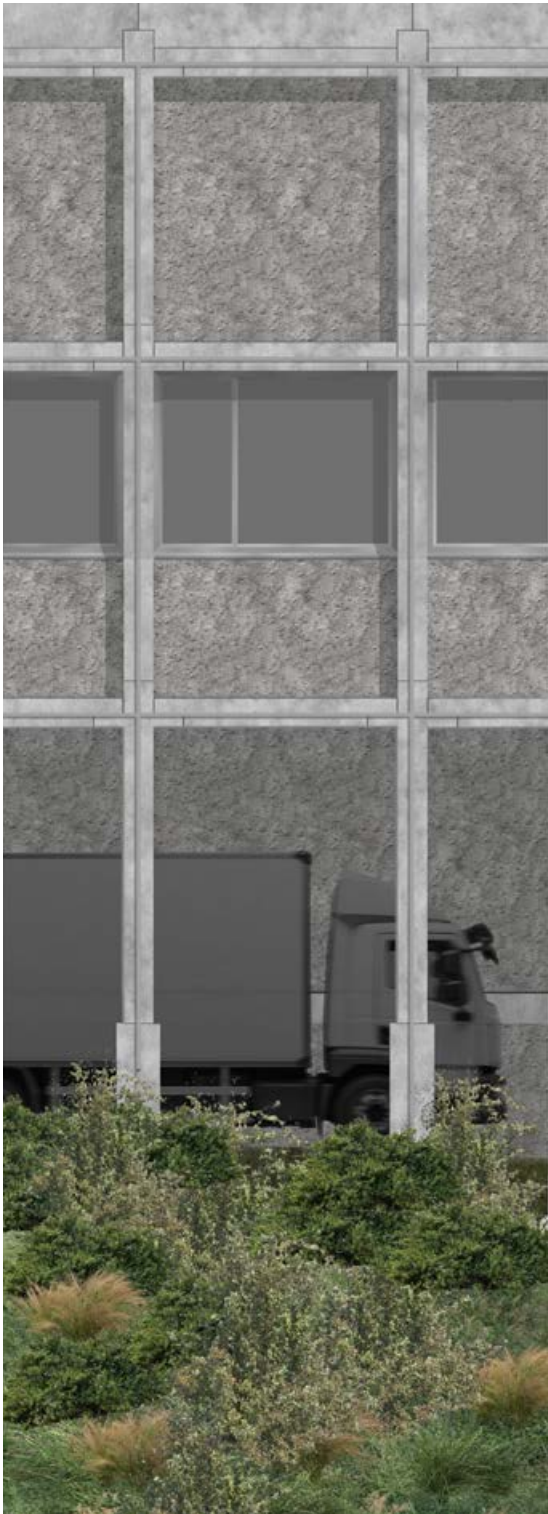
Thermally, concrete's high mass helps regulate internal temperatures, which, when combined with the hempcrete infill, creates a façade with excellent thermal performance.

Finally, precast concrete offers practical advantages in terms of construction speed and reduced site disturbance. It is faster to install, generates less noise, and minimizes disruption to the surrounding area, which is particularly important when working next to existing structures.

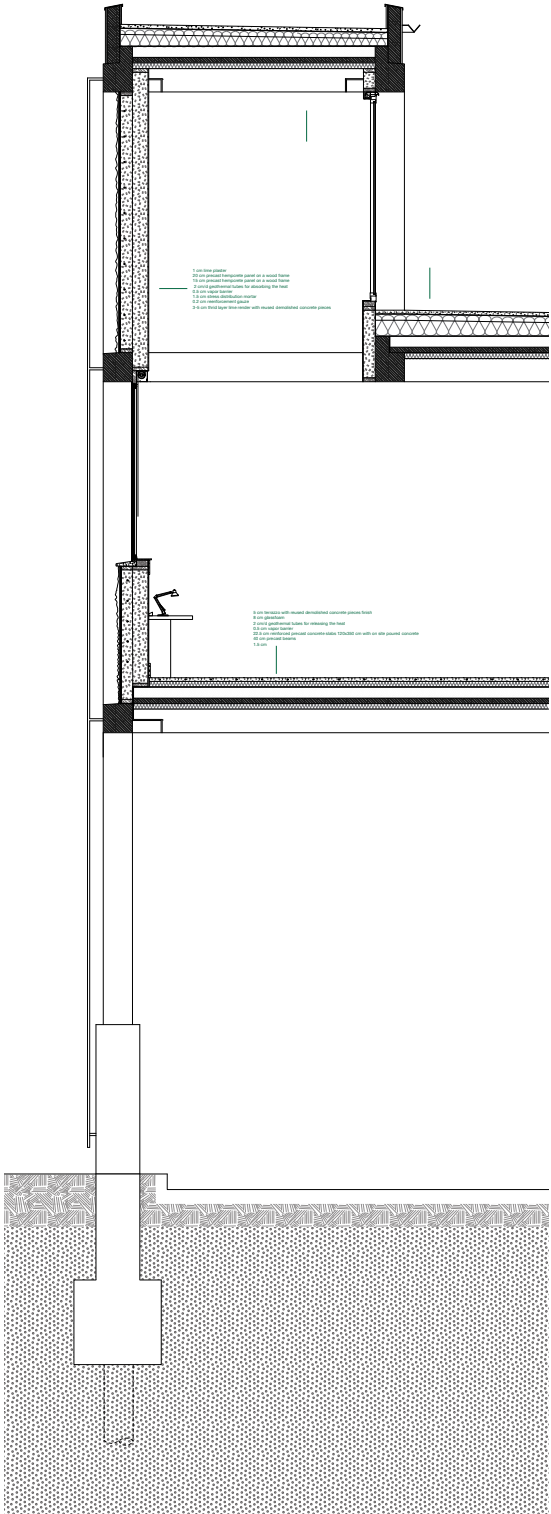


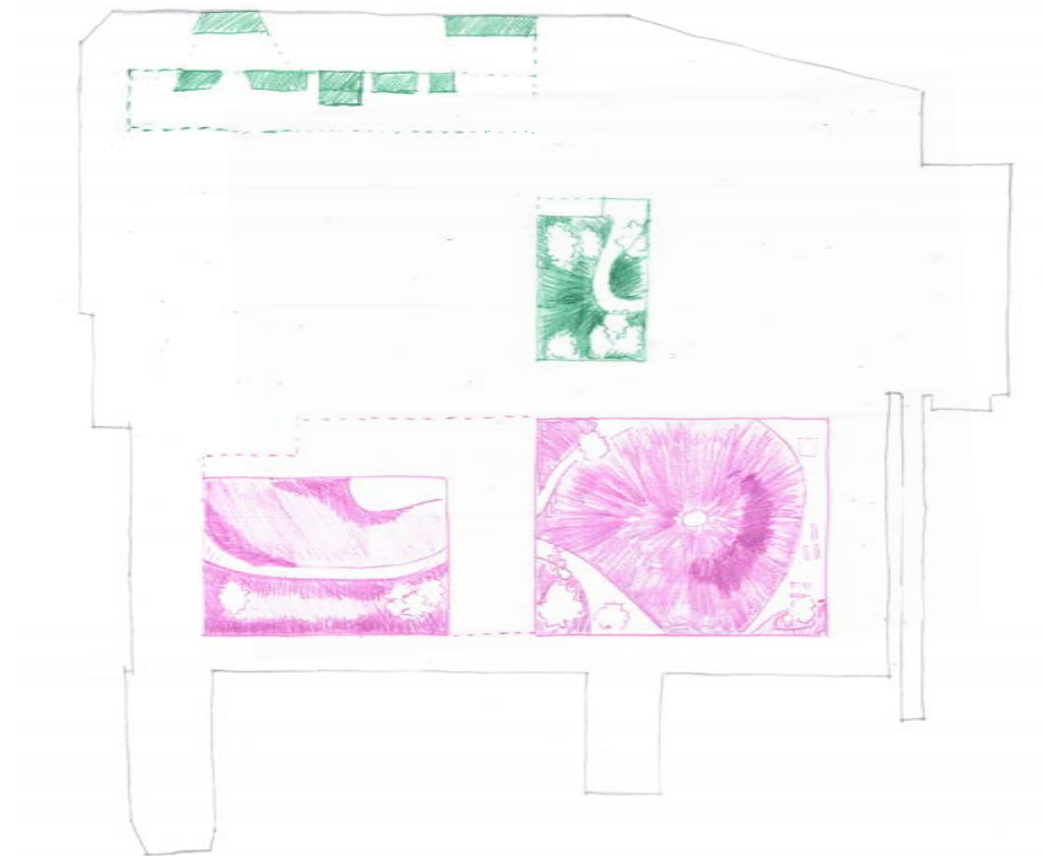


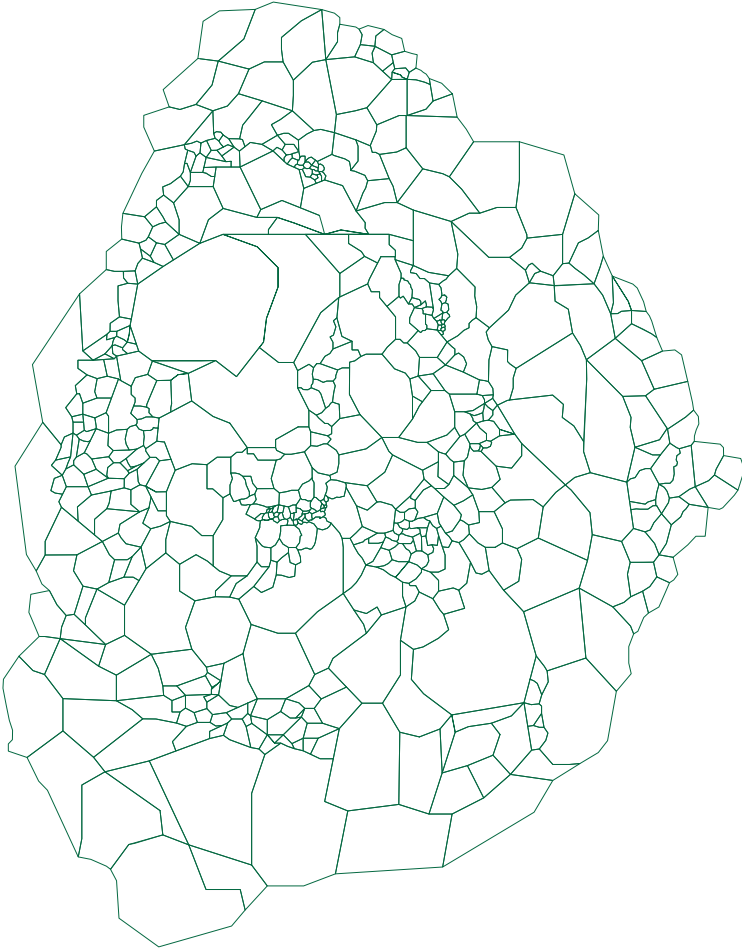
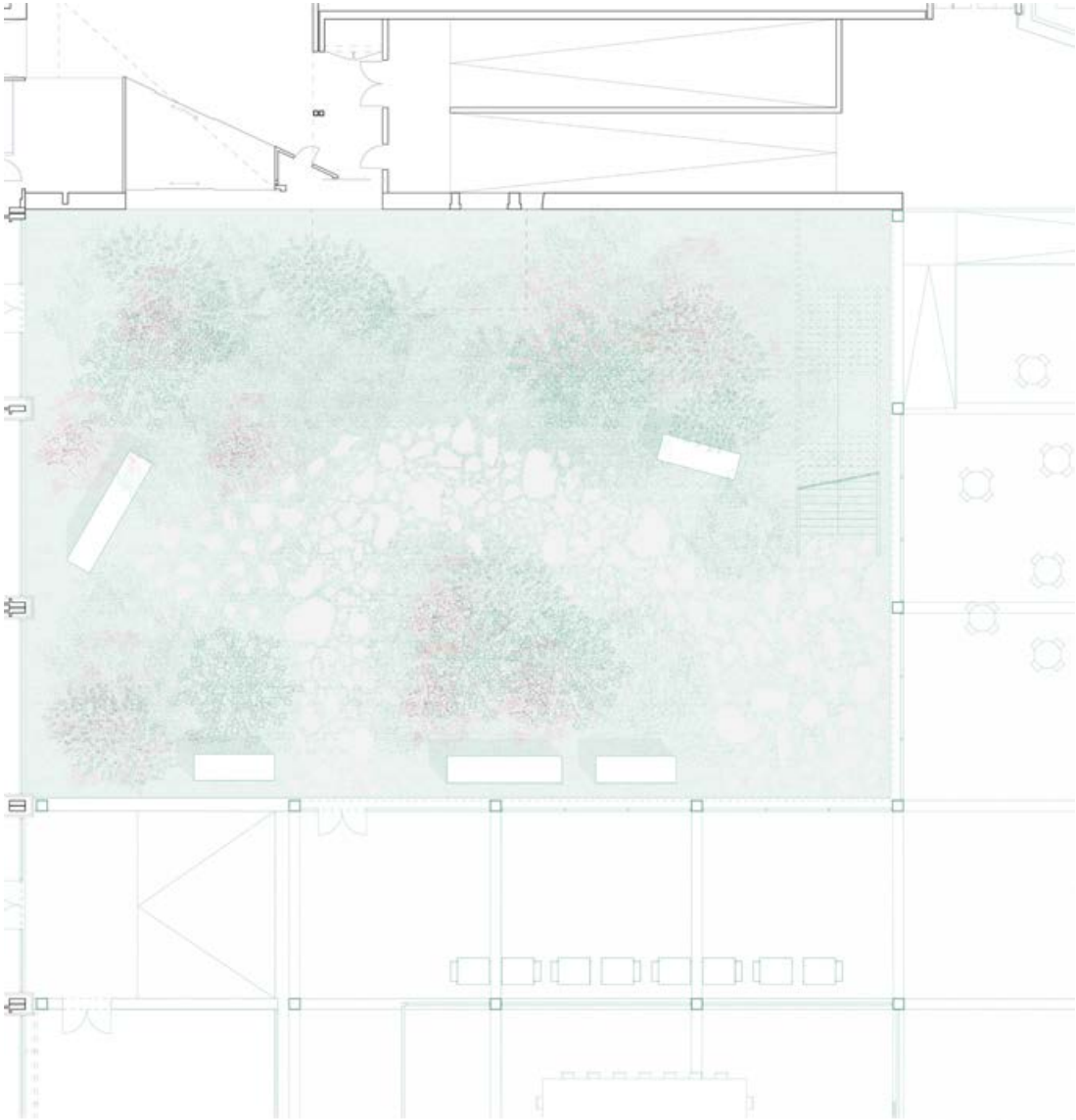
87. Made by author, fragment of the south facade , 2025

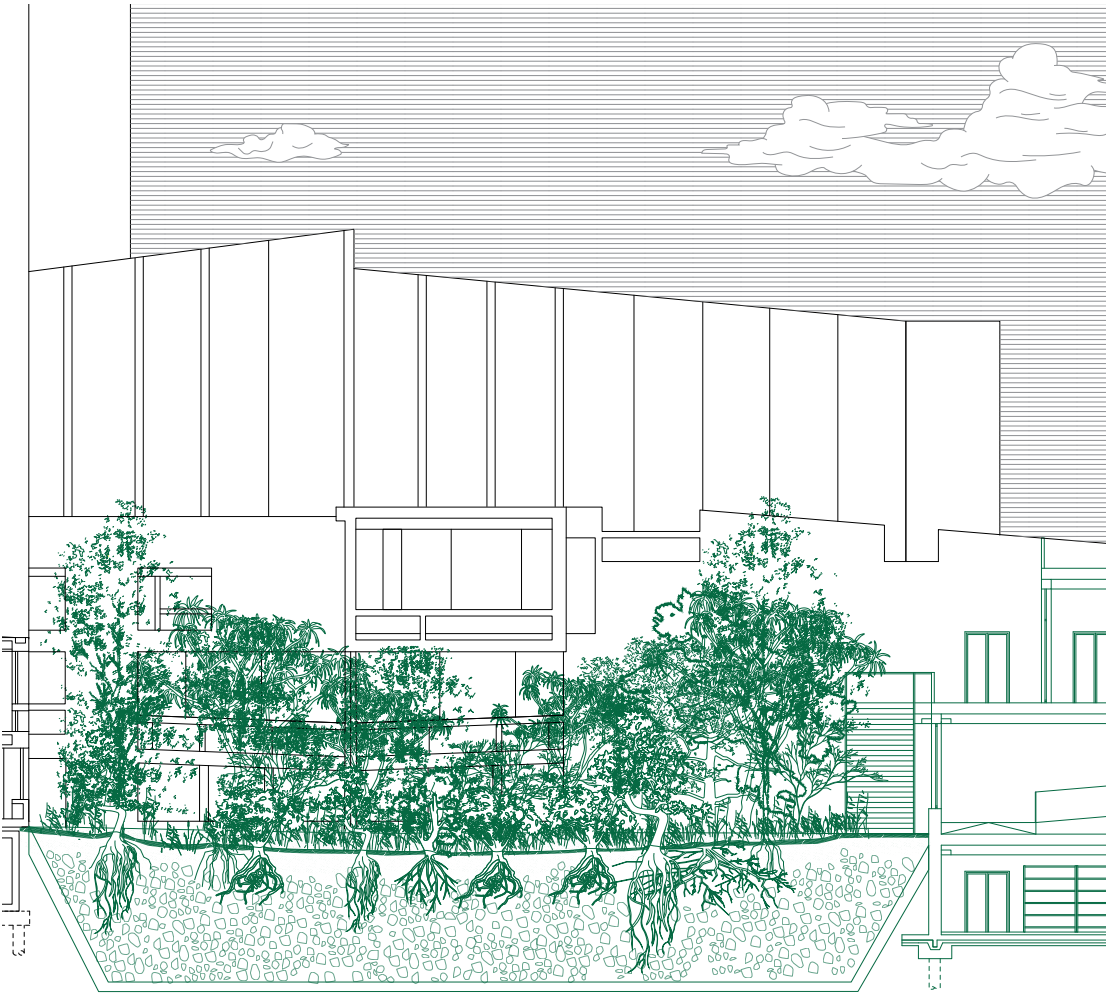


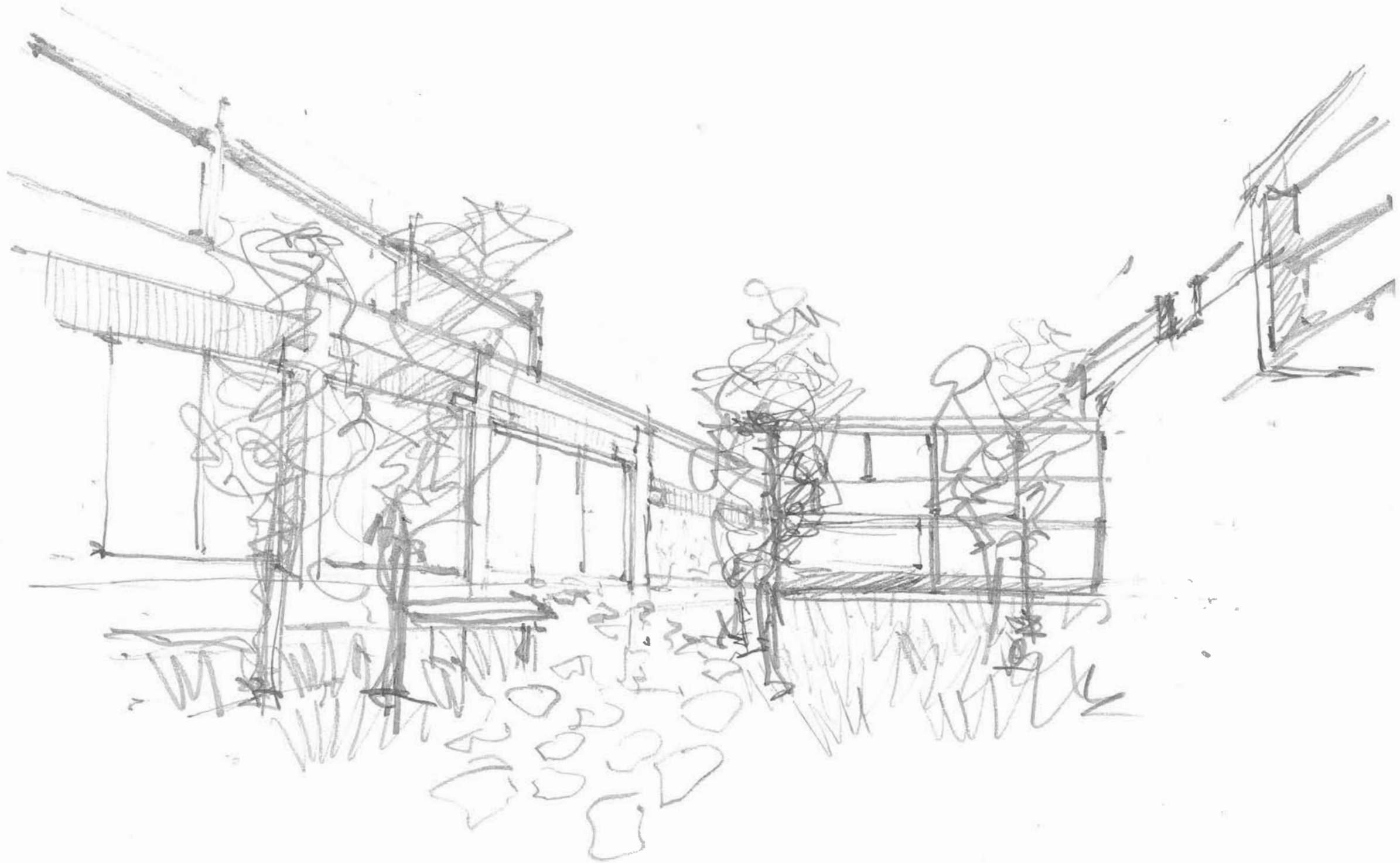
88. Made by author, fragment detail of the south facade , 2025

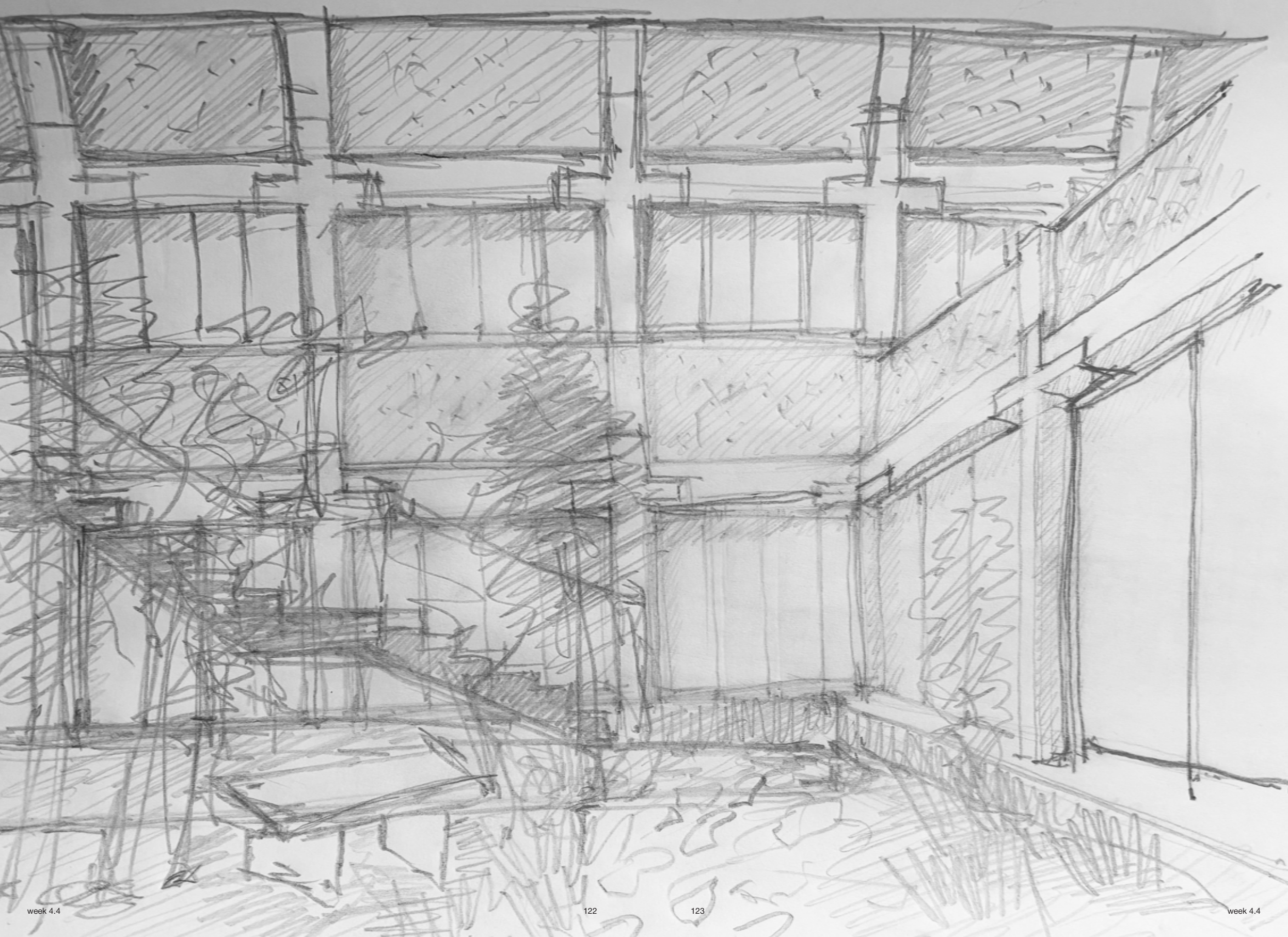




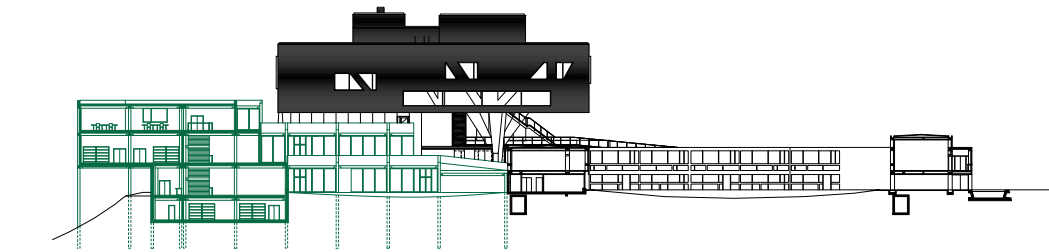




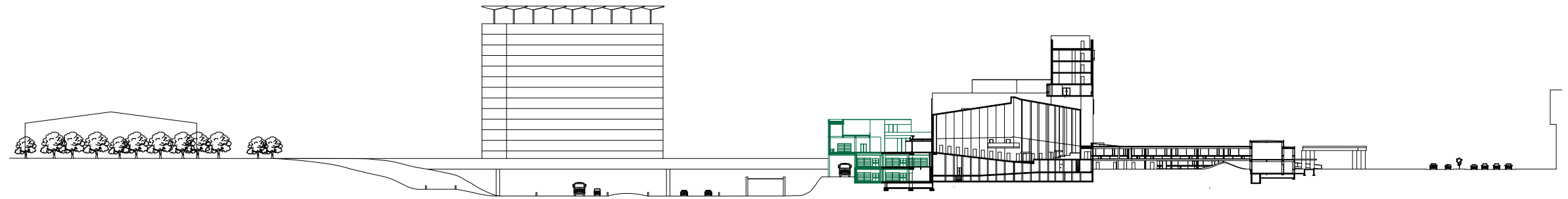
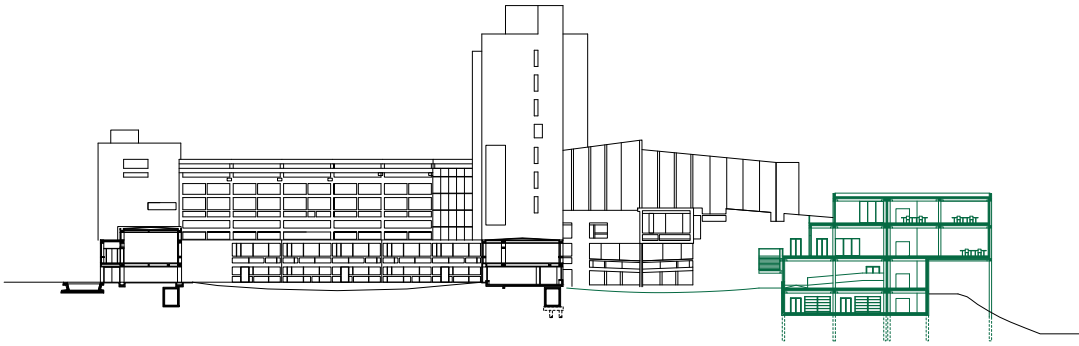


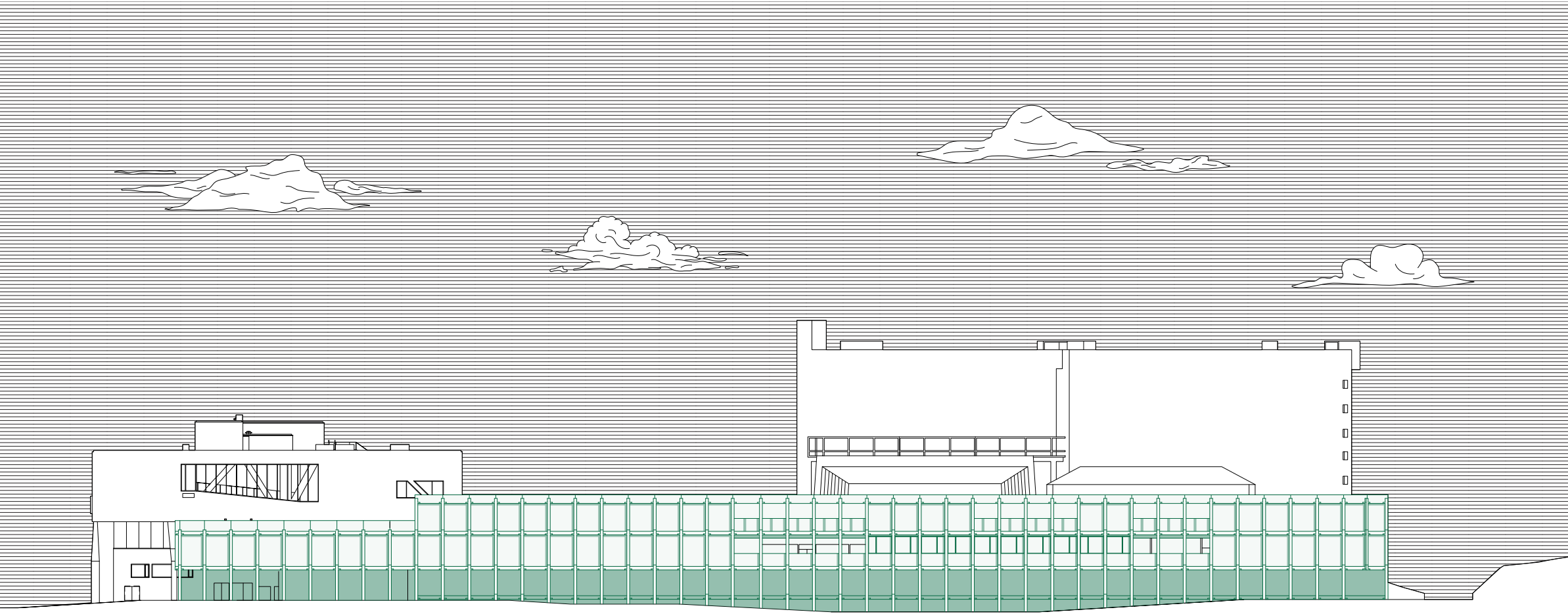


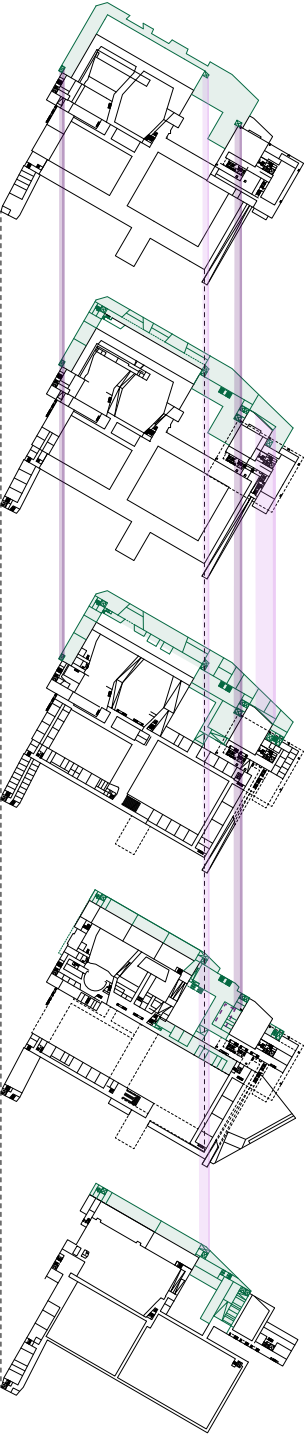
94. Made by author, skecth view of new courtyard, 2025
95. Made by author, section throught new courtyard with existing building, 2025

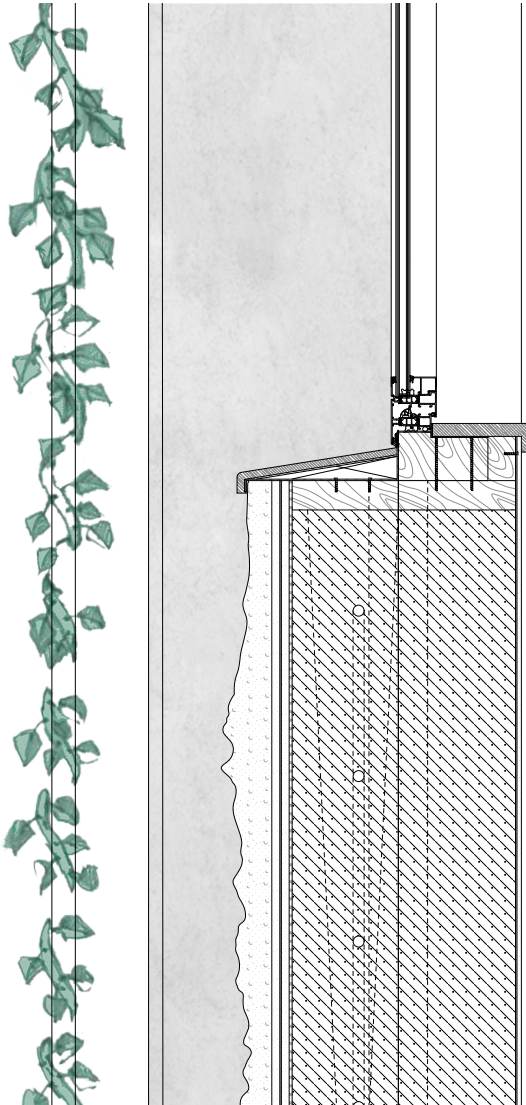
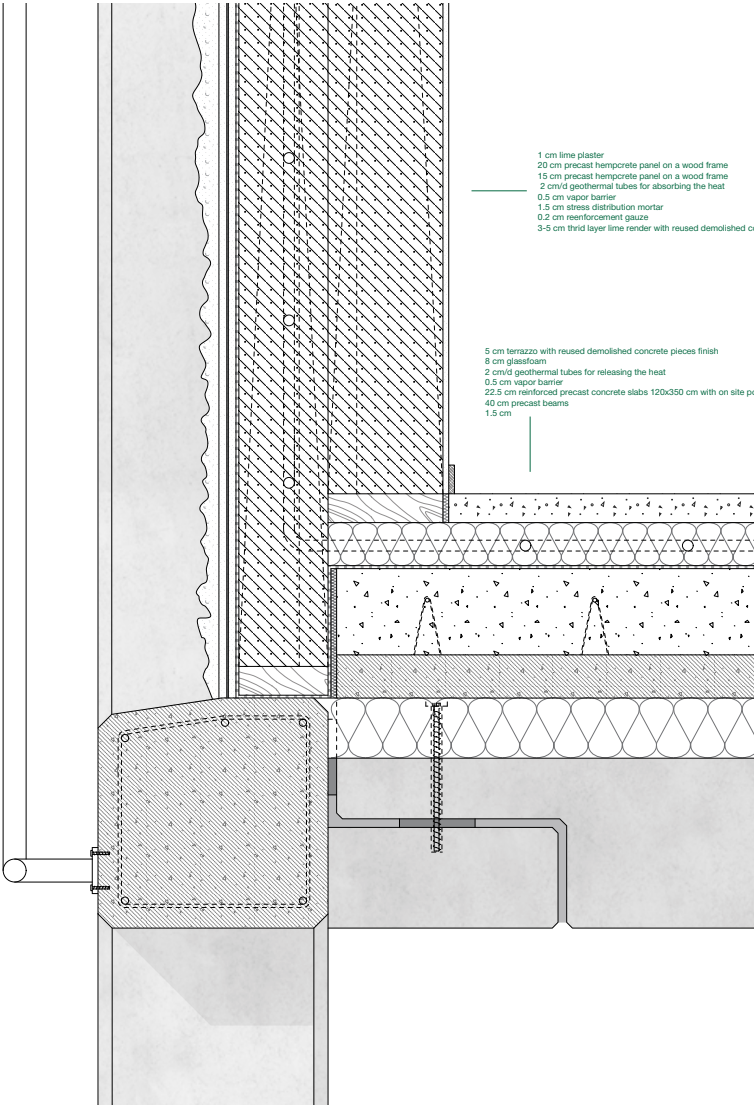


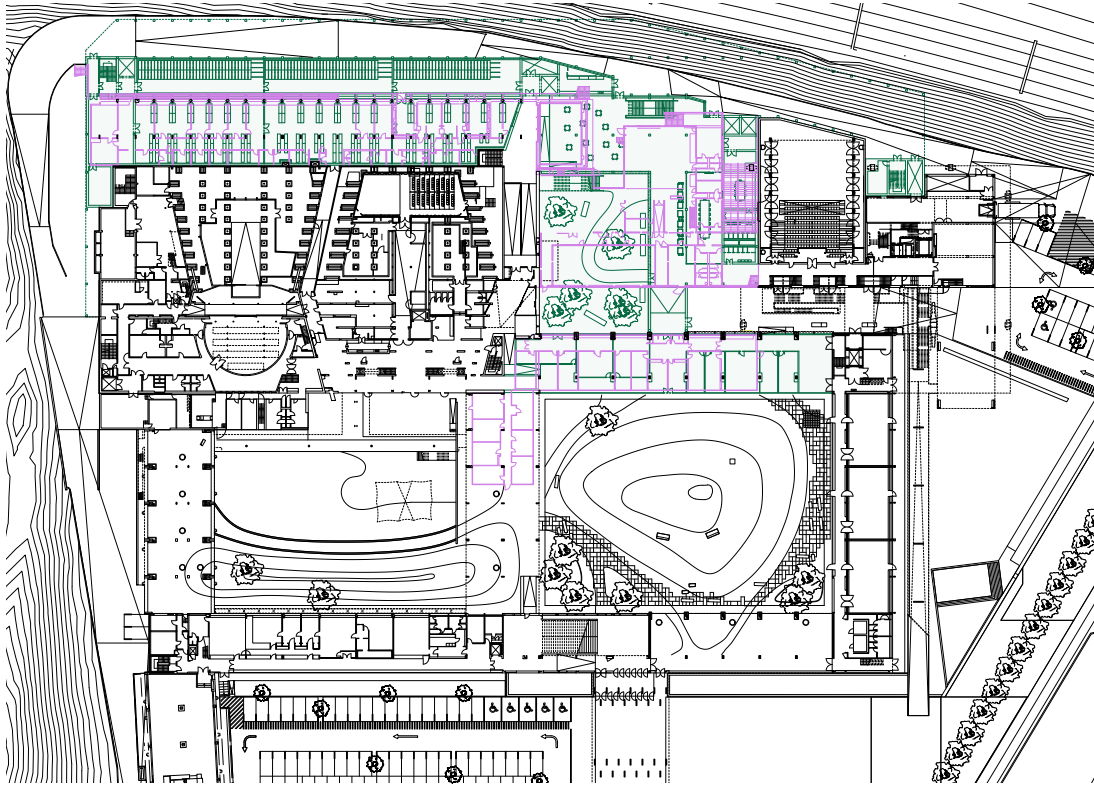
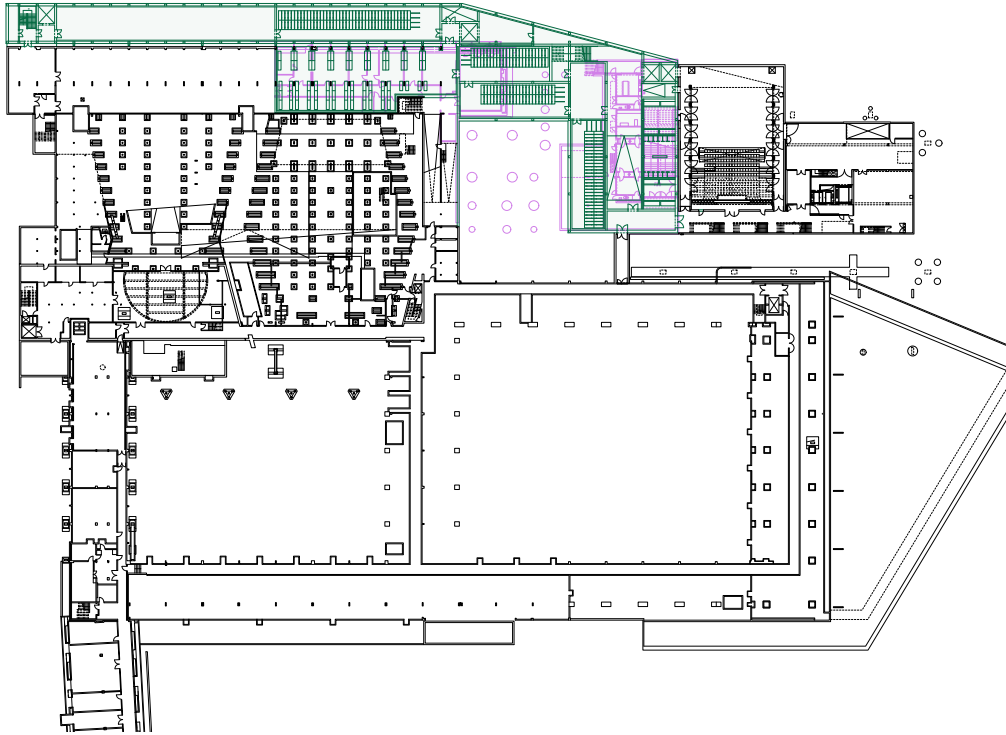
96. Made by author, section throught new courtyard with existing building, 2025
97. Made by author, section throught terraces with existing building, 2025

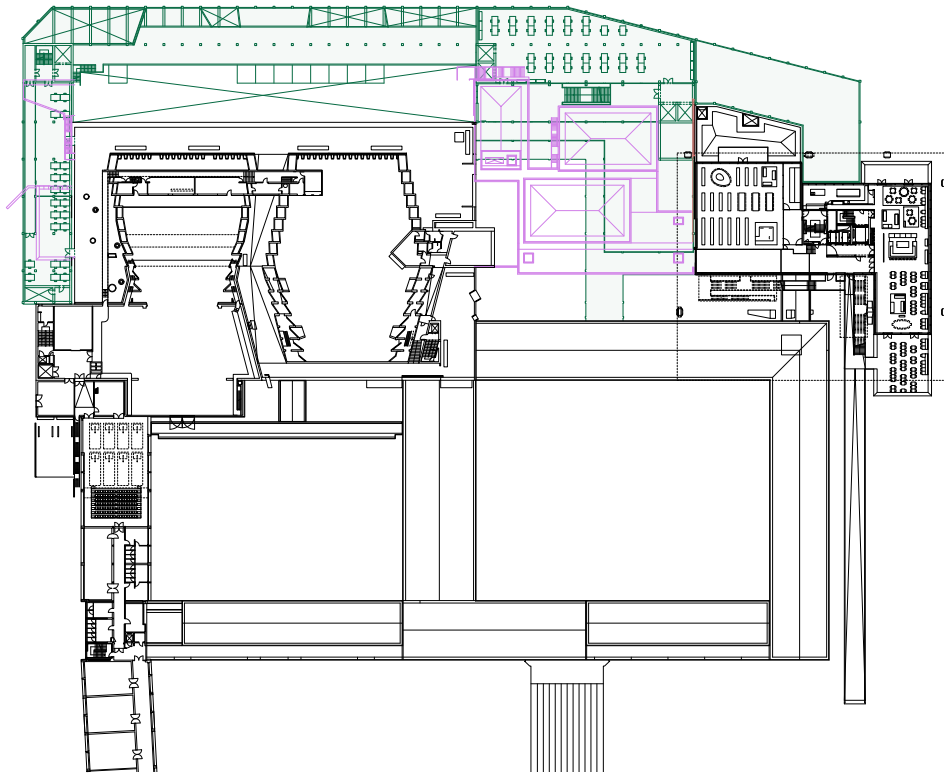
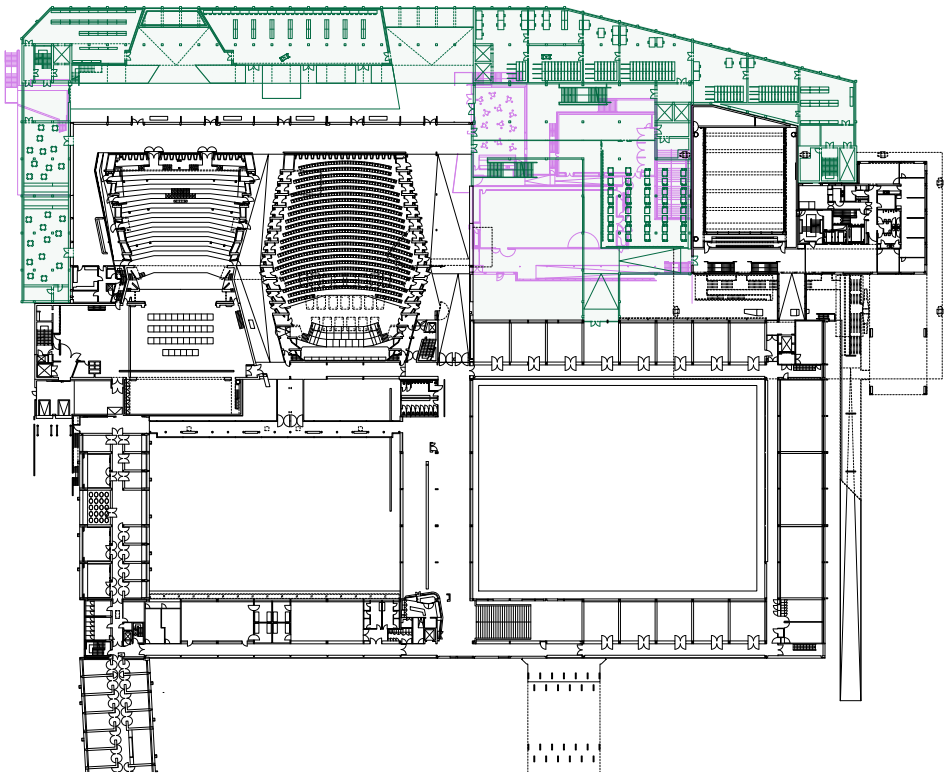


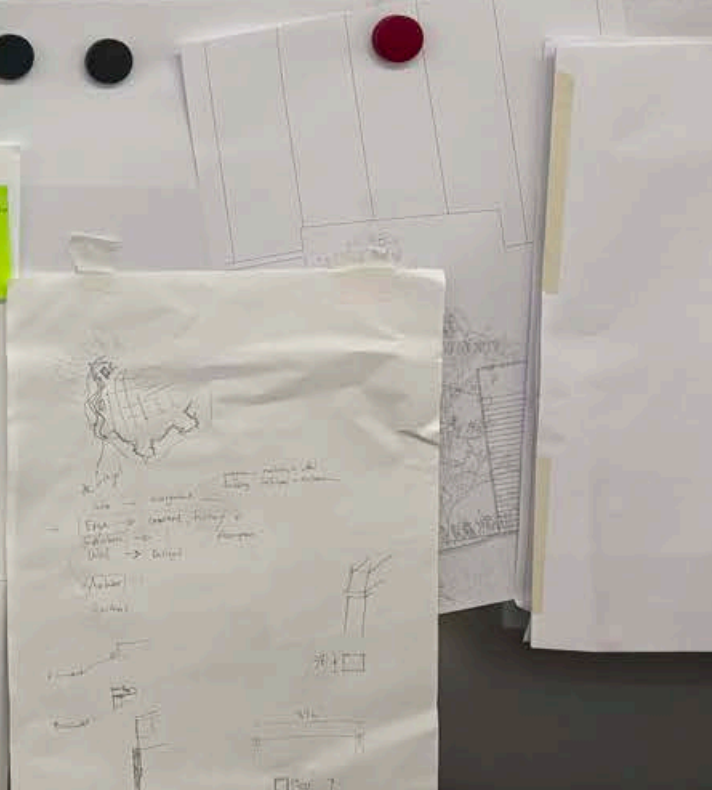
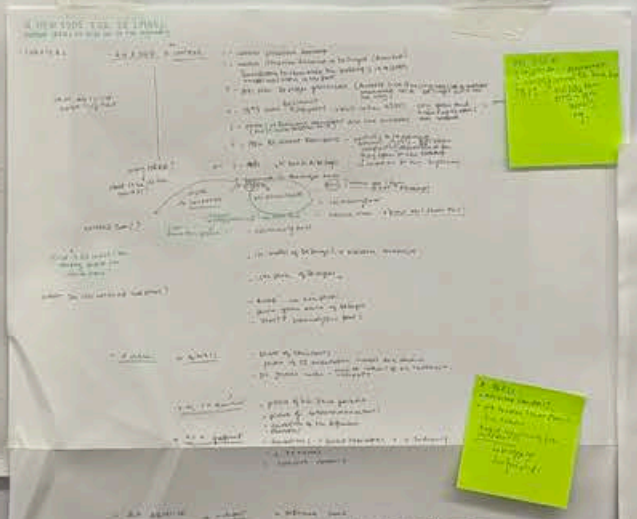
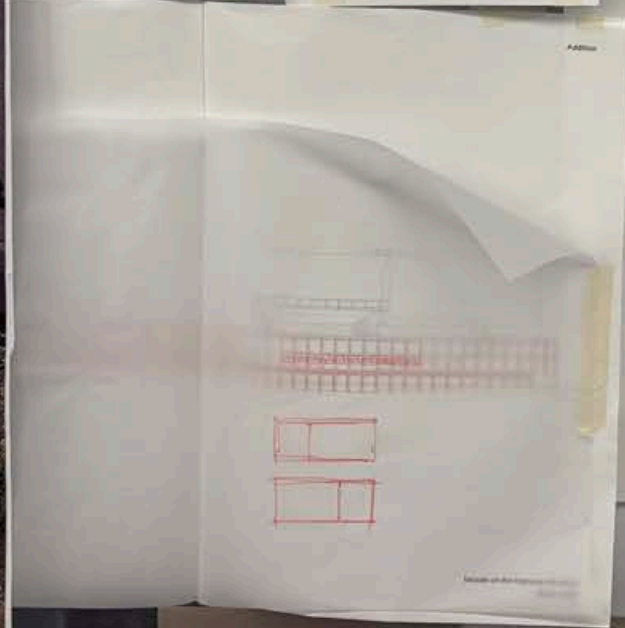
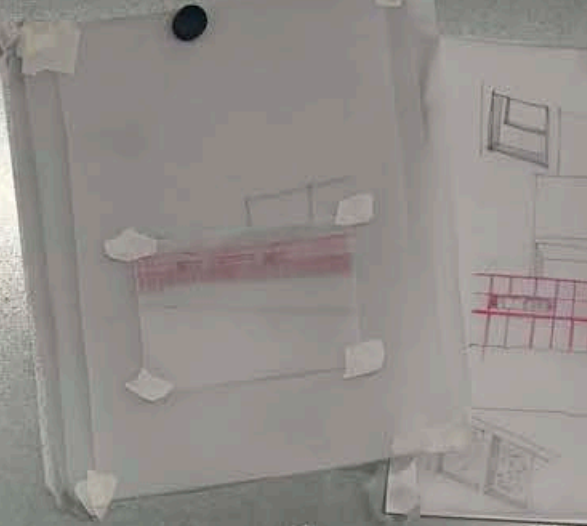
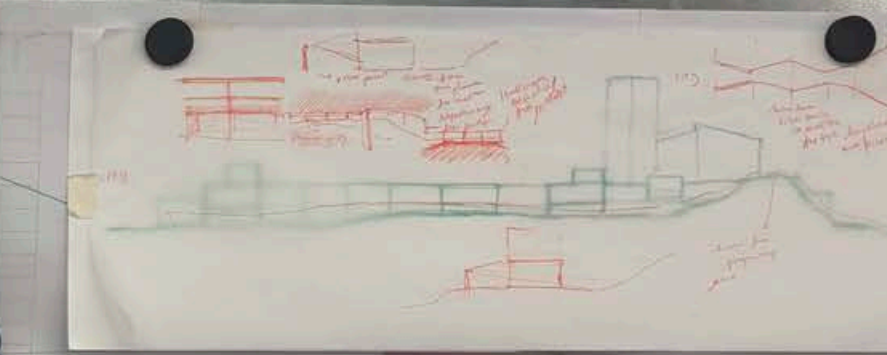
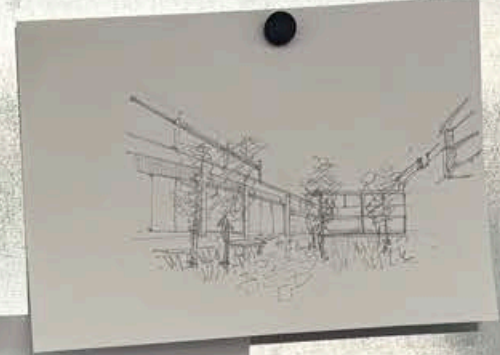
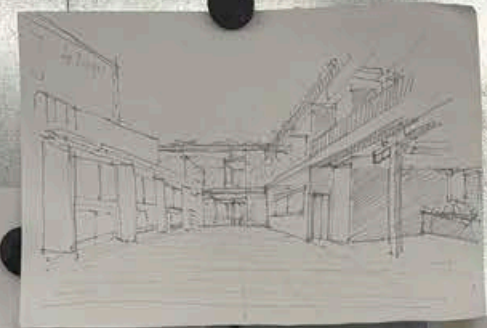
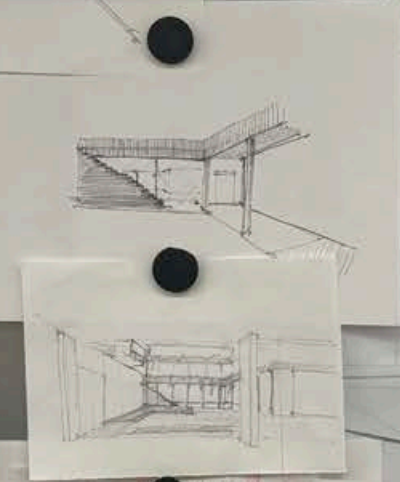


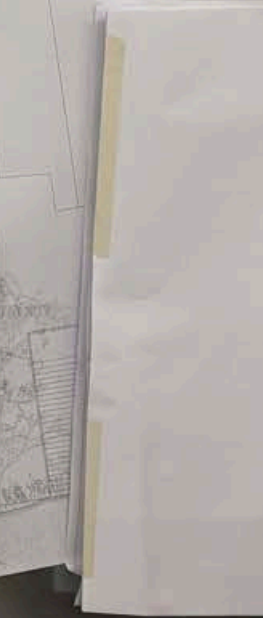
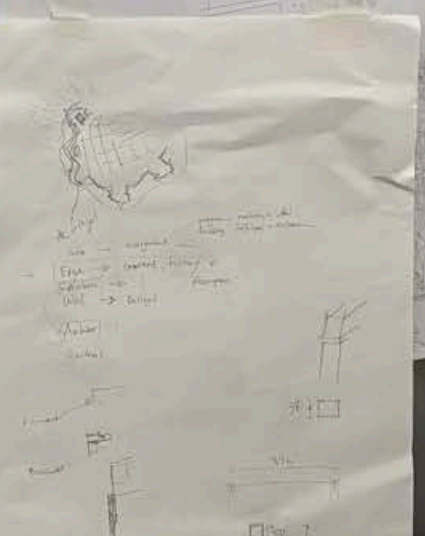
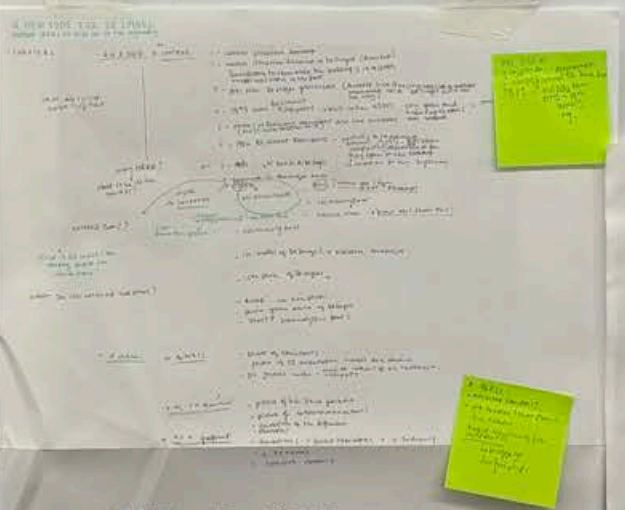
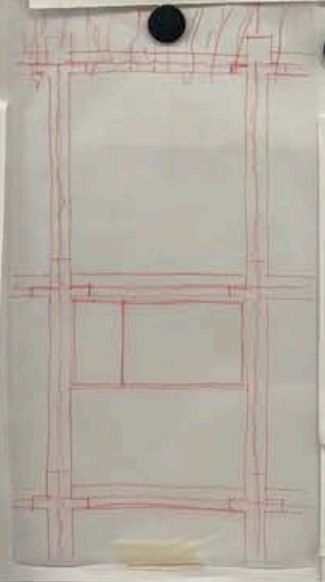
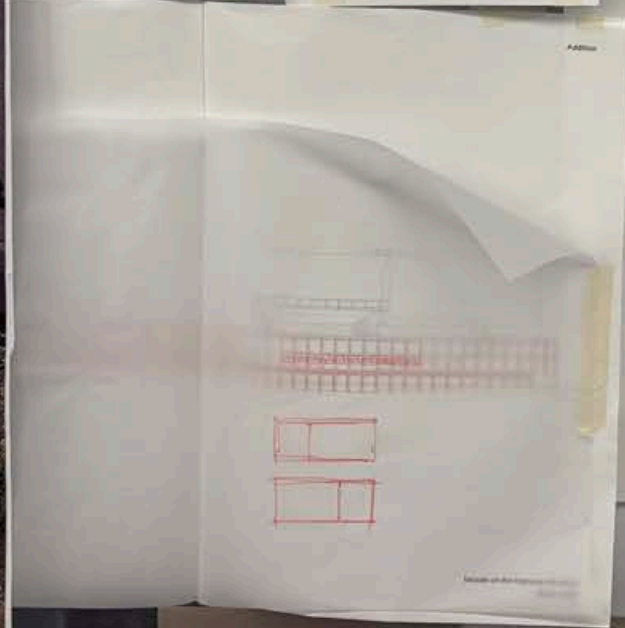
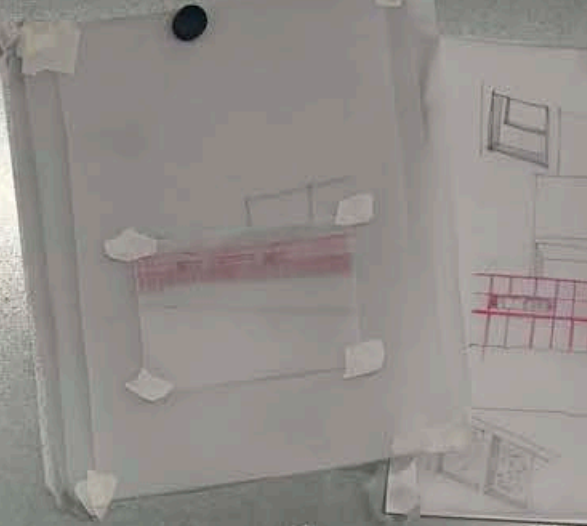
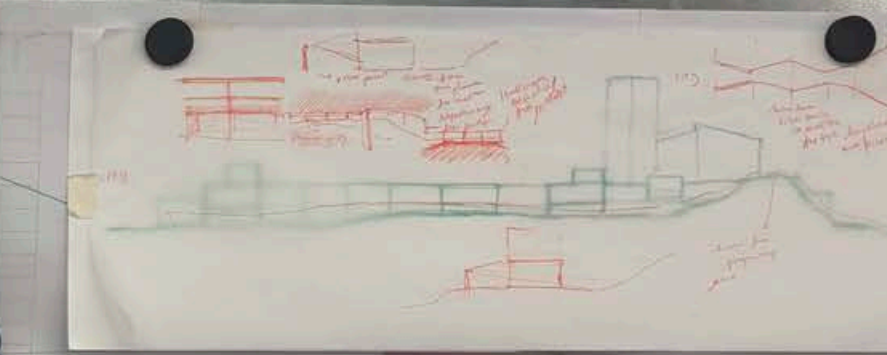
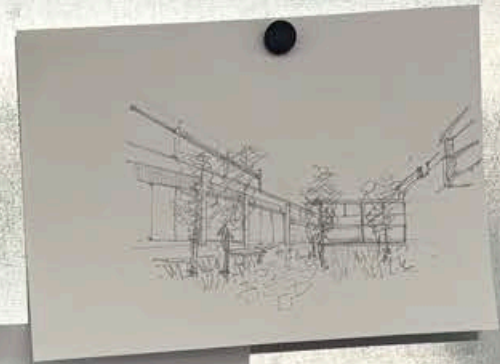
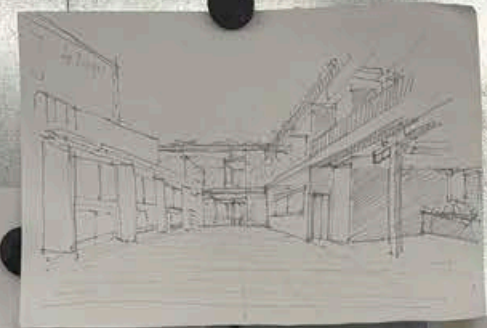
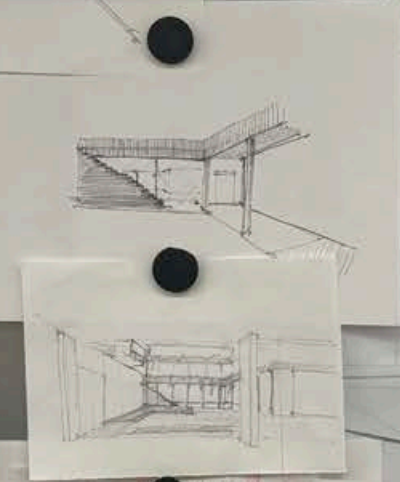
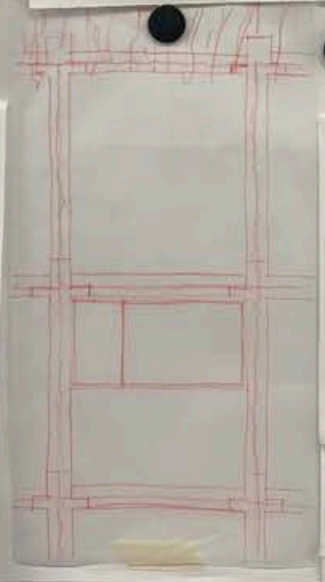




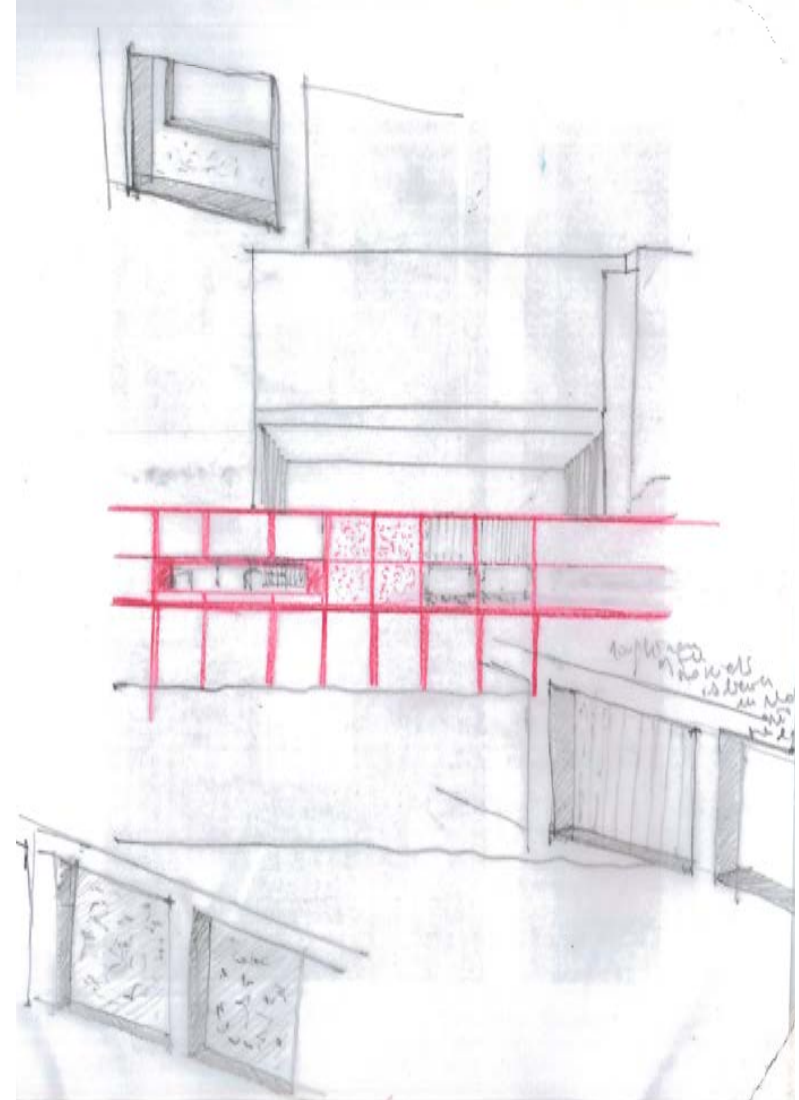
















57. Made by author, photoshop of the possible facade in the context, 2025
58. Made by author, photoshop of the possible facade with greeneries added in the context, 2025



59. Made by author, photoshop of the possible facade with green structure in the context, 2025



ICA FAQ 1. Shelving for Archival Storage – Key Issues

Prepared by ICA Committee on Archival Buildings in Temperate Climates (ICA/CBTE)

Information

FAQ 1. Shelving

Prepared by the ICA Committee

1. Introduction

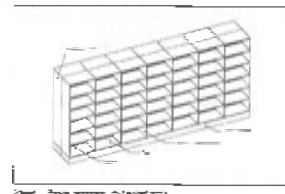
Shelving for archival storage comes in many shapes, sizes and methods of operation. The notes that follow are intended to provide a brief overview of key issues to consider if you are making decisions about shelving.

2. Shelving terminology

To understand shelving, and how it works, it is necessary to begin with some basic terminology.

- Backs** are the enclosing frame on the rear side of shelving. They provide the basic structural support and rigidity.
- Uprights** (or sides) are the enclosing panels on the side of a bay. They are supported with a series of vertical cross-bracing members, which are fixed by the user on the front and rear of individual shelves. Uprights are normally fixed to the back of the shelving unit.
- Shelves** are individual horizontal members attached to uprights at the ends and upon which records can be placed. Shelves are normally made of four types: one is a solid panel, one is a metal frame, one is a wire mesh, and one is a plastic frame.
- Bays** are the basic unit of shelving. They consist of a single back panel, connecting bars, uprights and shelves. Bays can be either solid or open-sided. A double-sided bay consists of two single-sided bays joined back-to-back and sharing a common back panel. As the means of joining bays, they are normally made of a solid panel, a metal frame, a wire mesh, or a plastic frame.
- Rows** consist of a number of bays, either single-sided or double-sided, connected to each other. The standard length of a row is 1.83 m (6 ft), but it is not uncommon to find rows seven bays wide or even wider. In some countries a row is referred to as a station or a range.

Diagram illustrating the terminology.



3. What should you consider when choosing between hand-operated and electric shelving?

Hand-operated shelving is much cheaper than electrically operated shelving. As there are few mechanical components, there is little that can break down, or need replacing. Electrically operated shelving is very easy to operate, however, there is always the possibility that, over time, components could malfunction or become obsolete.

Wooden shelving is usually made from bright mild steel and then treated, either with a paint or a powder coating, to protect the surface from scratching and reduce the possibility of rusting.

What should you look for when choosing second-hand shelving?

If you are planning to use second-hand shelving there are a number of precautions you should take. First, you should ensure that there is no rust present. Rust can contaminate the records. If particularly severe, it can also weaken the strength of the shelving.

If the shelving has no rust, but some other contaminants (e.g. grease), it should be cleaned and, if necessary, repainted. At the very least, place a layer of cardboard over the shelves as a buffer between them and the records.

You should also ensure that there are no rough edges or burrs on the shelving that could damage the records.

What accessories can be provided as part of your shelving?

Shelving comes with an array of accessories designed for specific record formats. For example:

- Slide-out reference shelves** can be attached directly underneath a shelf. They can be extended, by means of runners, allowing the operator to place items on them, at waist height, and not on the floor. When not in use they retract underneath the shelf above.
- Wire racks** (known in Austria as 'Kocheracks') because of their similarity to toast racks) can be used to store items such as computer tapes and films to be stored upright.
- Brackets** allow individual items to be stored horizontally. The brackets are attached to the uprights and are sometimes known as 'pizza' shelving, because they resemble the way many pizza boxes are stored.

In addition, there are cardholders, pockets and dividers that can store files or other objects within the shelving.

How do you ensure your shelving remains stable?

Whatever height the shelving is, it must be stable. Measures must be taken to ensure it cannot topple over. This is particularly the case when units higher than seven or eight shelves are used. Advice should be sought from the manufacturer.

ICA FAQ 1. Shelving for Archival Storage – Key Issues

Prepared by ICA Committee on Archival Buildings in Temperate Climates (ICA/CBTE)

to ensure that the shelving is stable and secure.

Because the shelving is made of metal, it is important to ensure that it is protected from corrosion.

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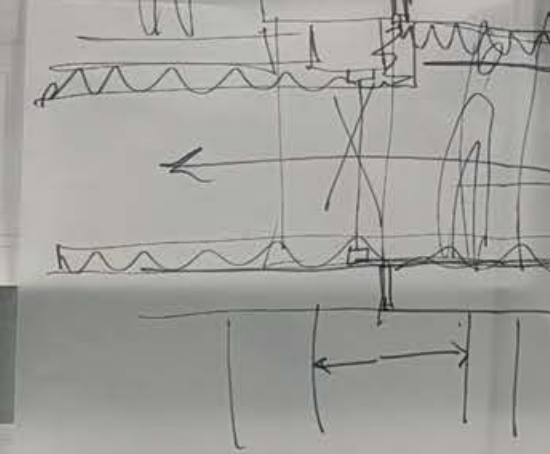
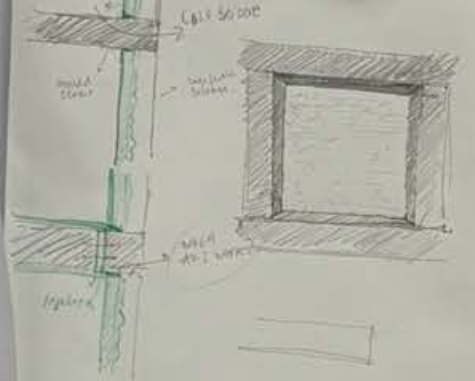
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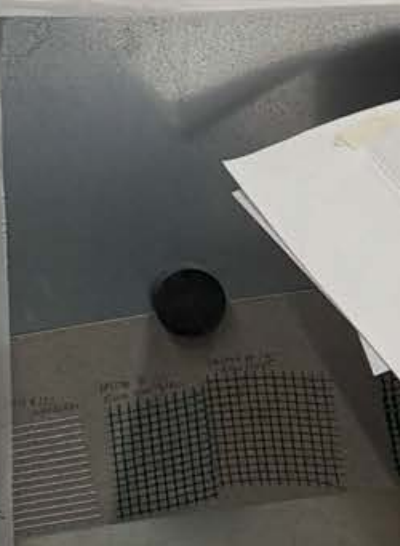
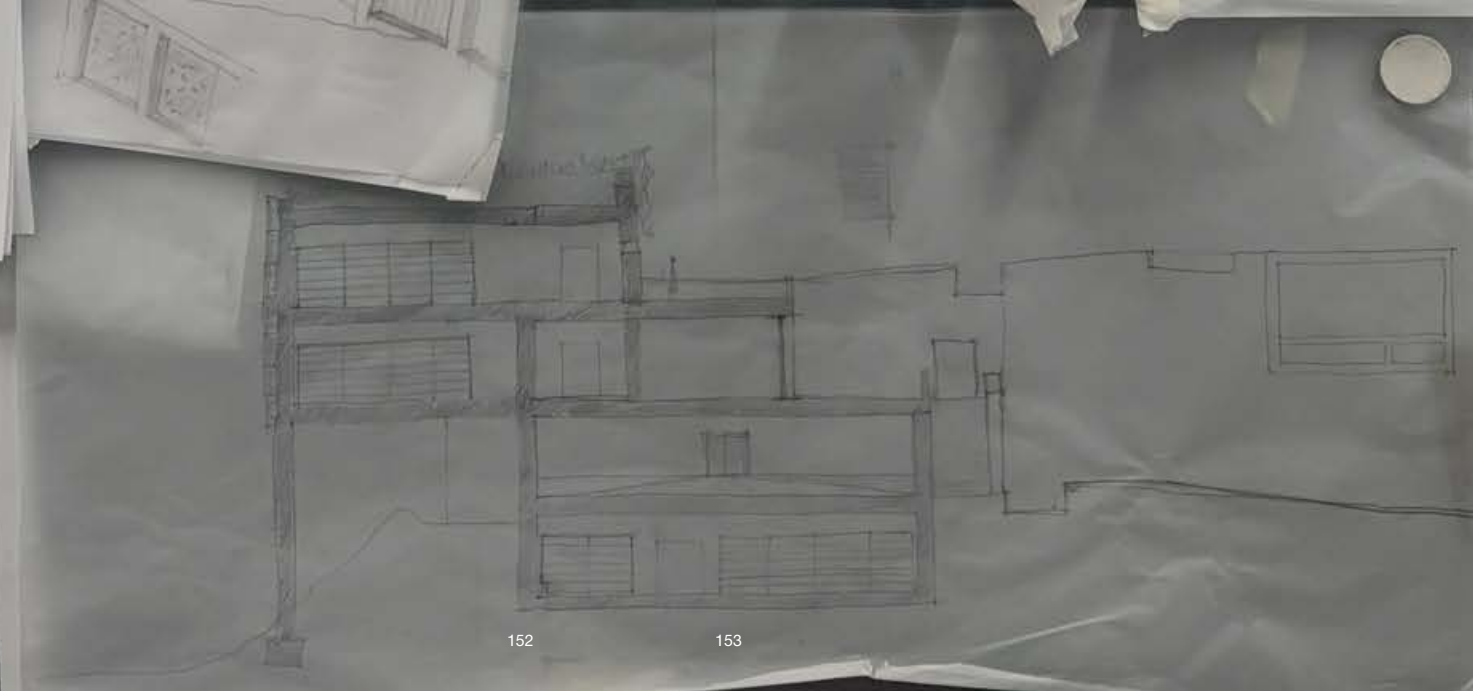
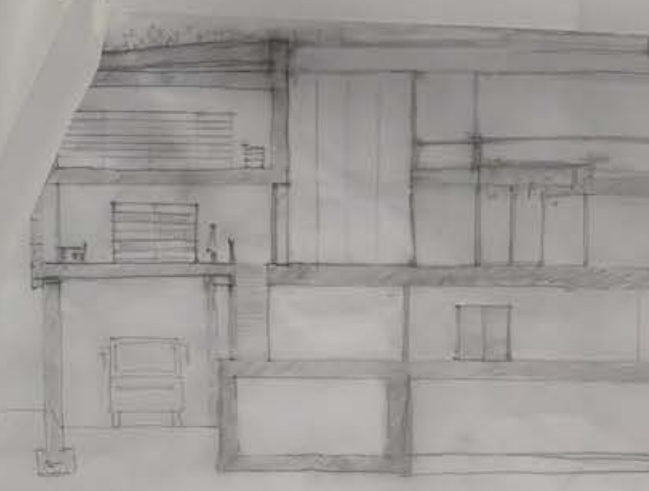
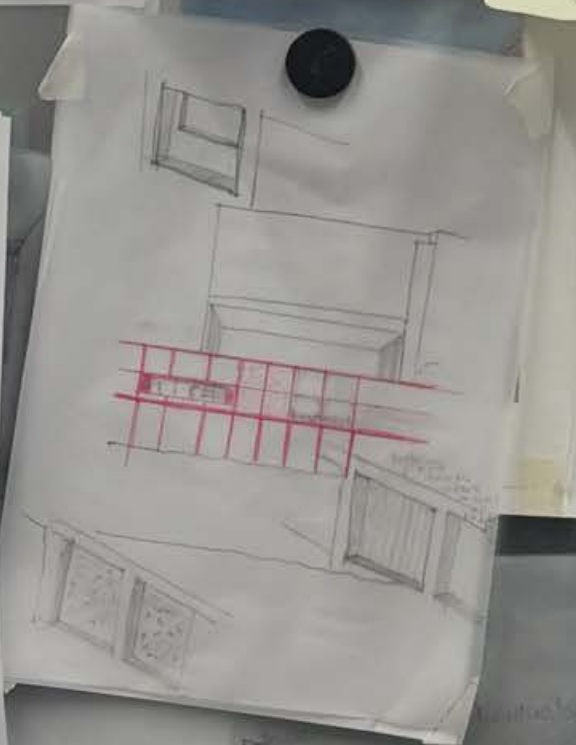
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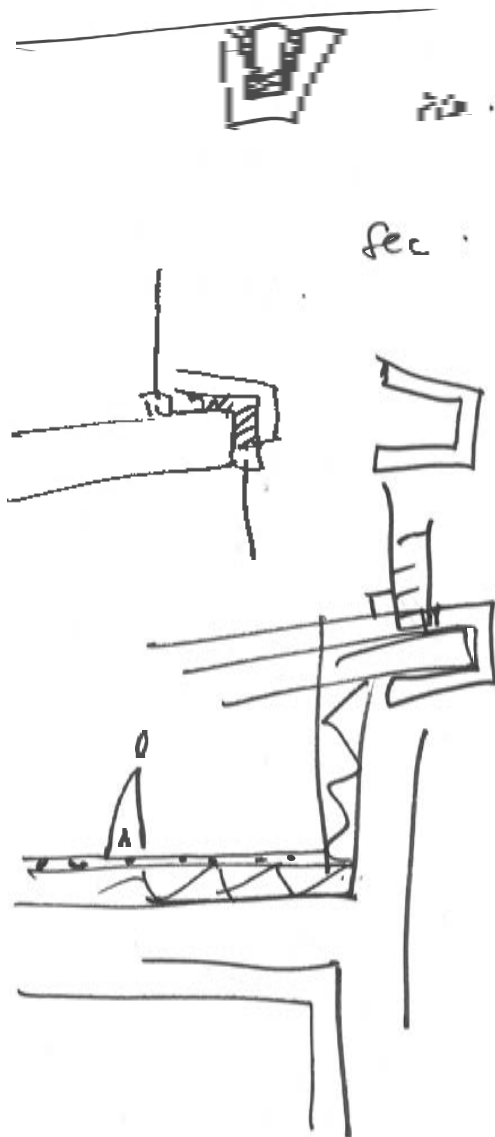
Self workspace	300	301
Admin workspace	300	334
Large meeting room	80	80
Small meeting room	30	49
Common space	150	283
VN office	250	485
Archives	3565	4524
Storage packaging material	120	255
Loading / Unloading	150	182
Wiring Depot	100	107
Stage space / contaminated space	80	80
Casting	80	77
Quarantine	120	162
Processing	80	148
Pre-Depot	80	97
Inspection studio	80	108
Digital studio	80	148
Depot storage	2500	2989
Cinema class photo depot	100	171
View Depot	125	0
Garage space	10	41

- 4. 480 60x7 1250
- 5. 378 56x7 2872
- 6. 350 70x7 3242
- 7. 360 86x80 4102
- 8. 325 72x7 4623
- 9. 460 96x80 5087
- 10. 460 96x80 5547



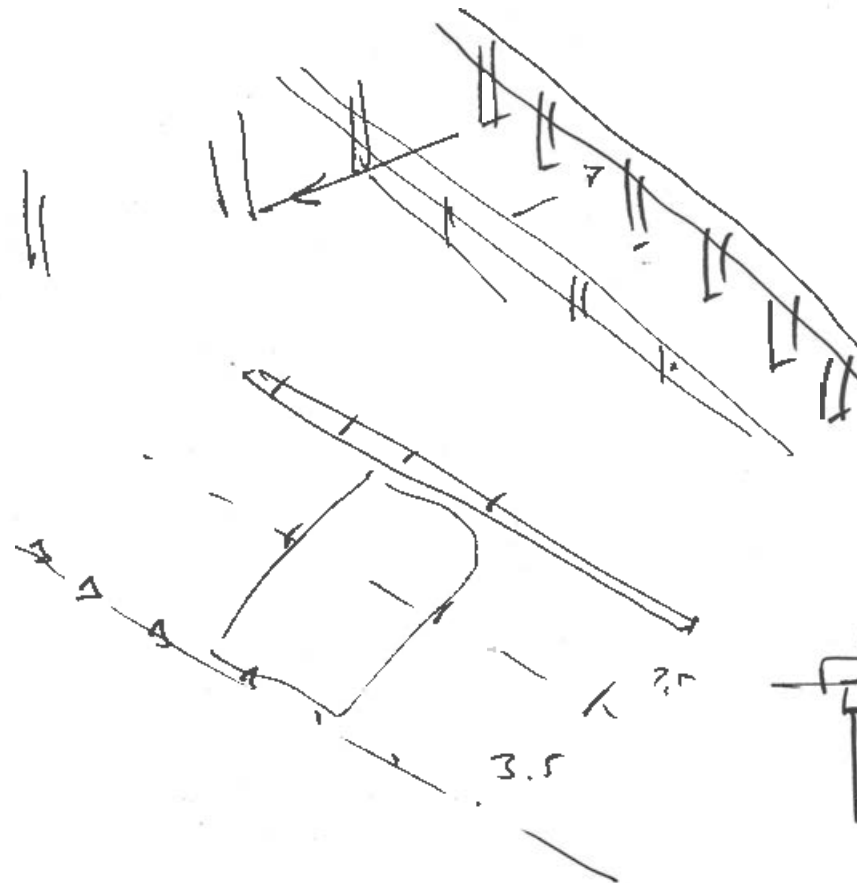
I AM OUTSIDE
IN GET A
BIT OF AIR
WARM UP



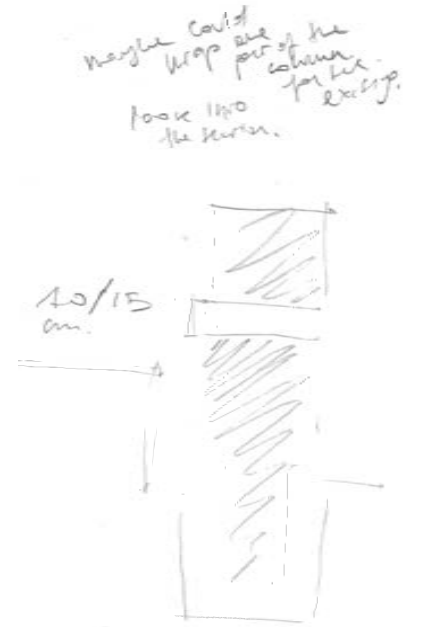
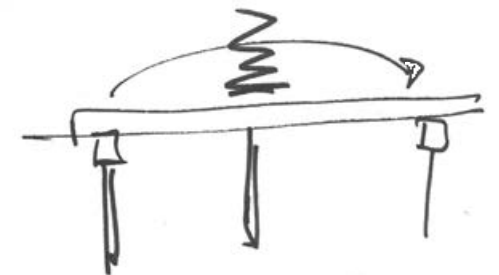


sec :

same.
 zollverein.



3.5

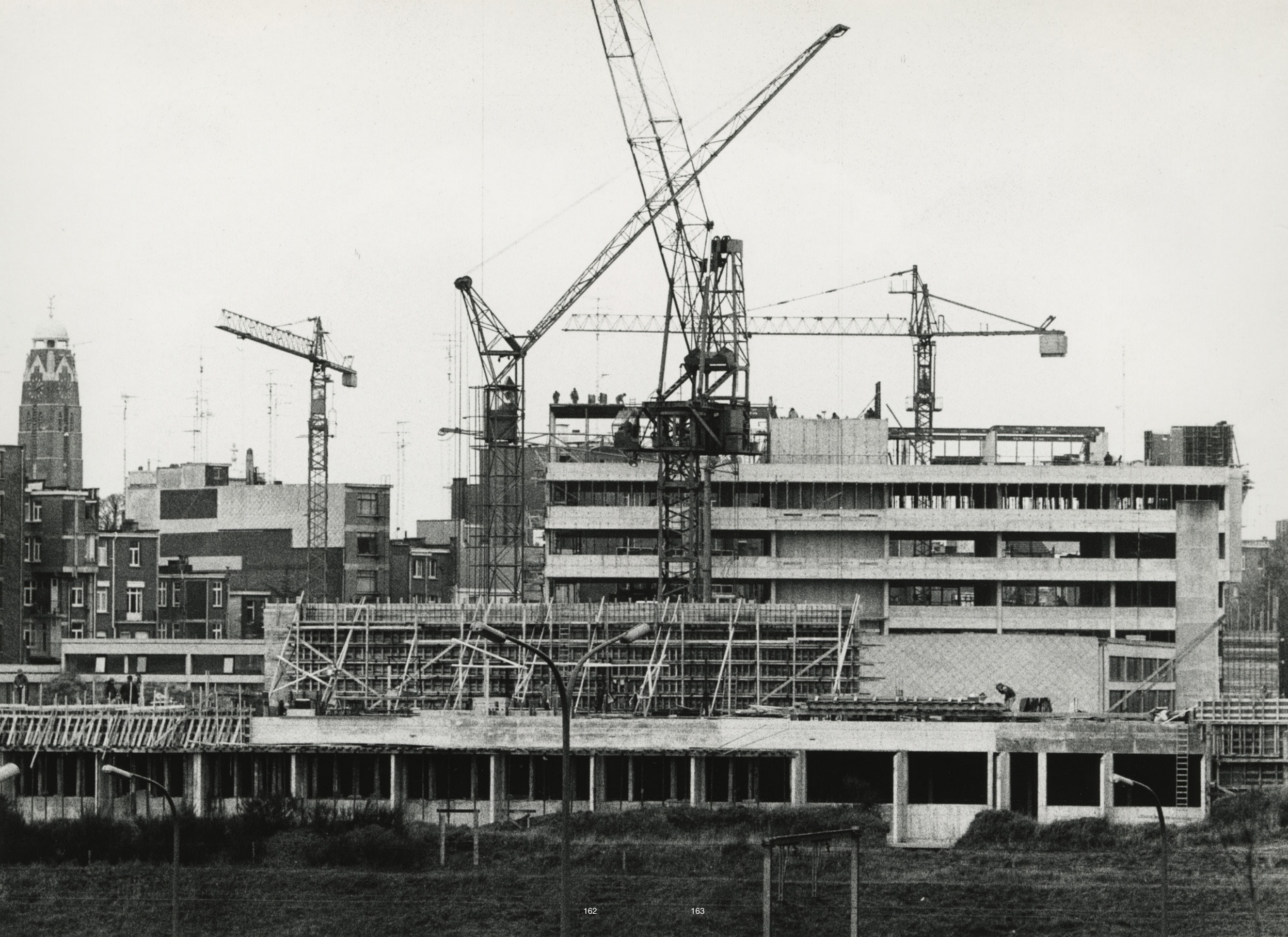


maybe could
 wrap the
 top of the
 column
 for the
 design.
 look into
 the kitchen.









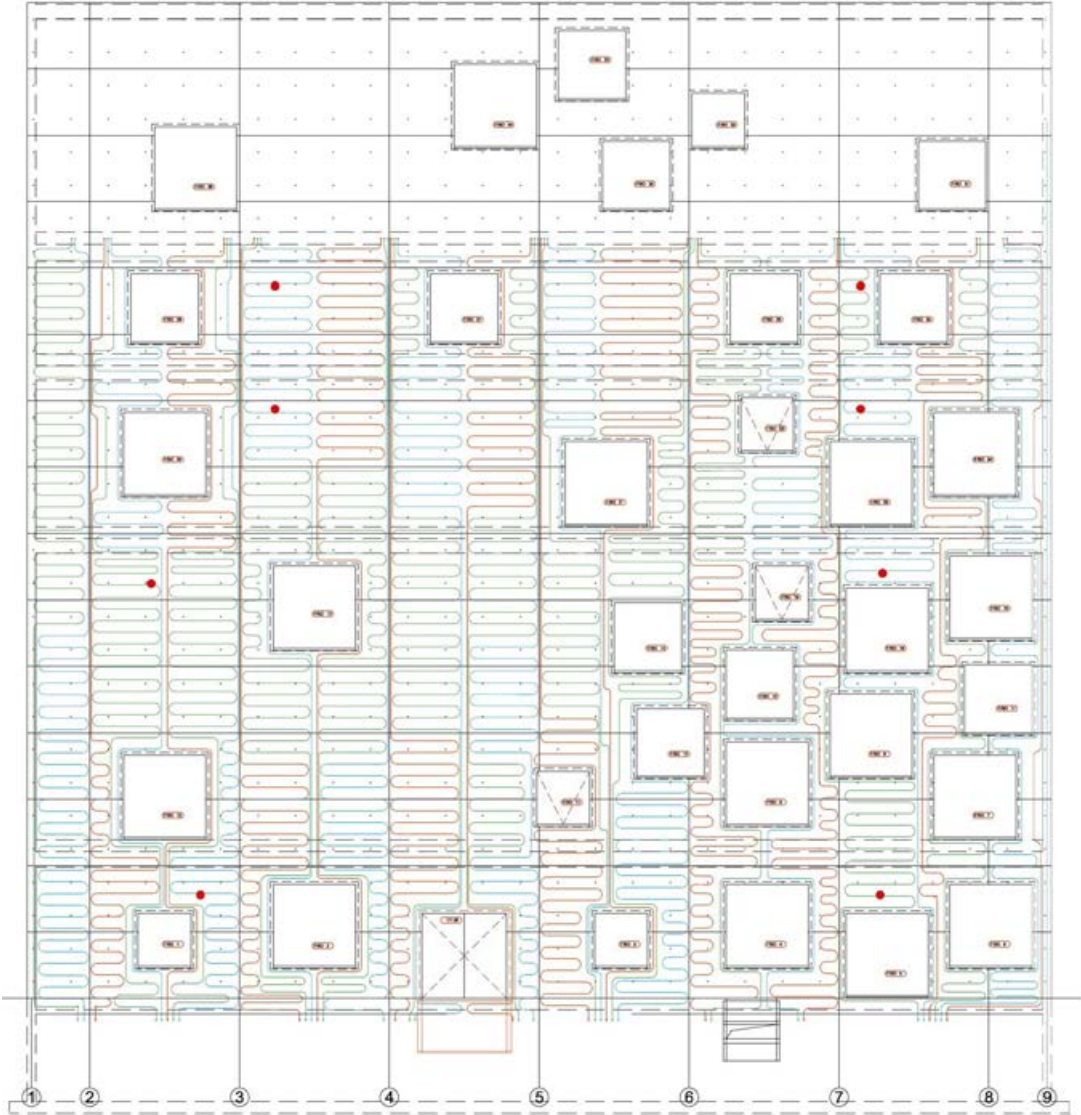
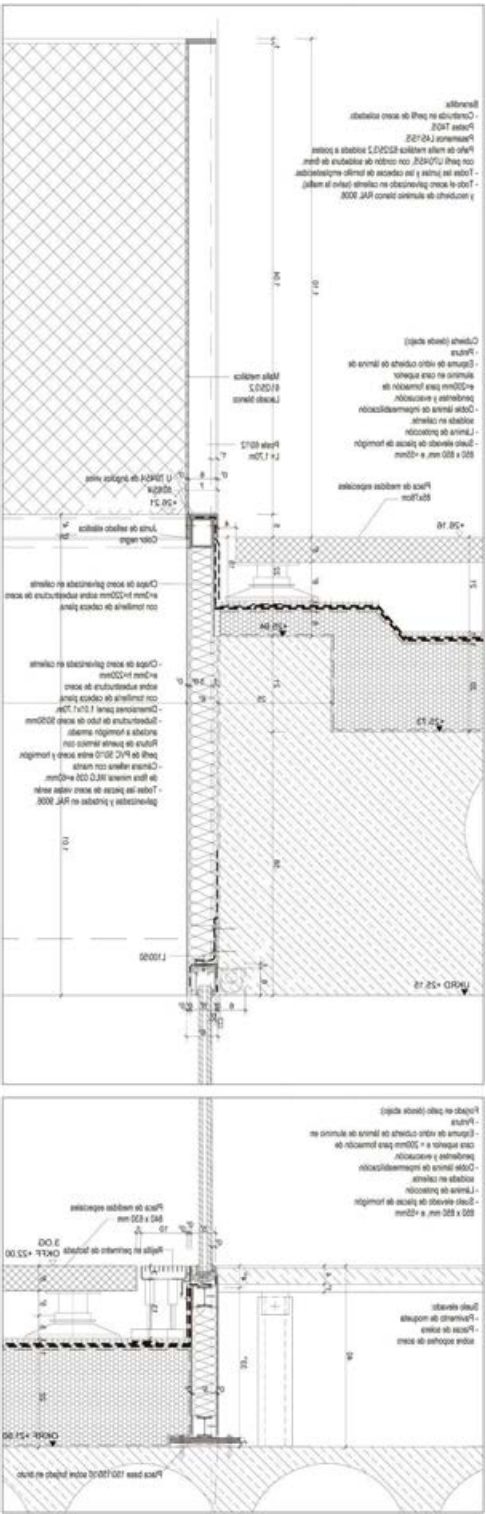
Geothermal heating system

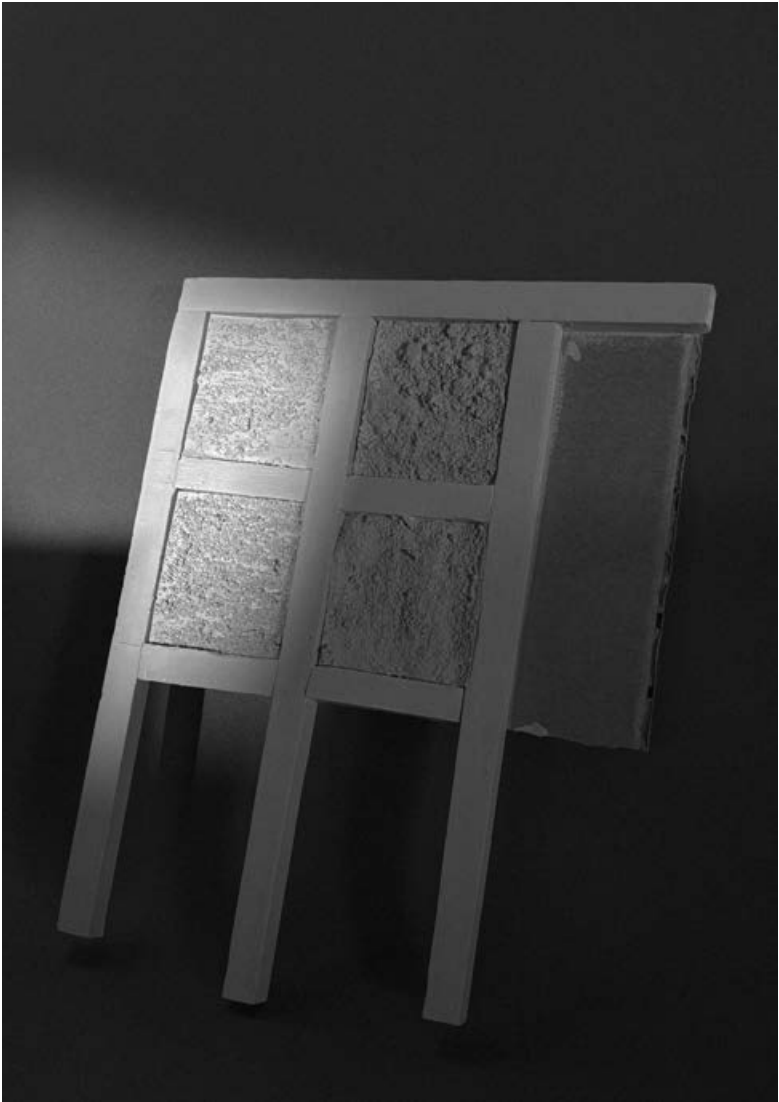
SANAA
Zollverein School of Management and Design
Essen, Germany
Realization 2003-2006

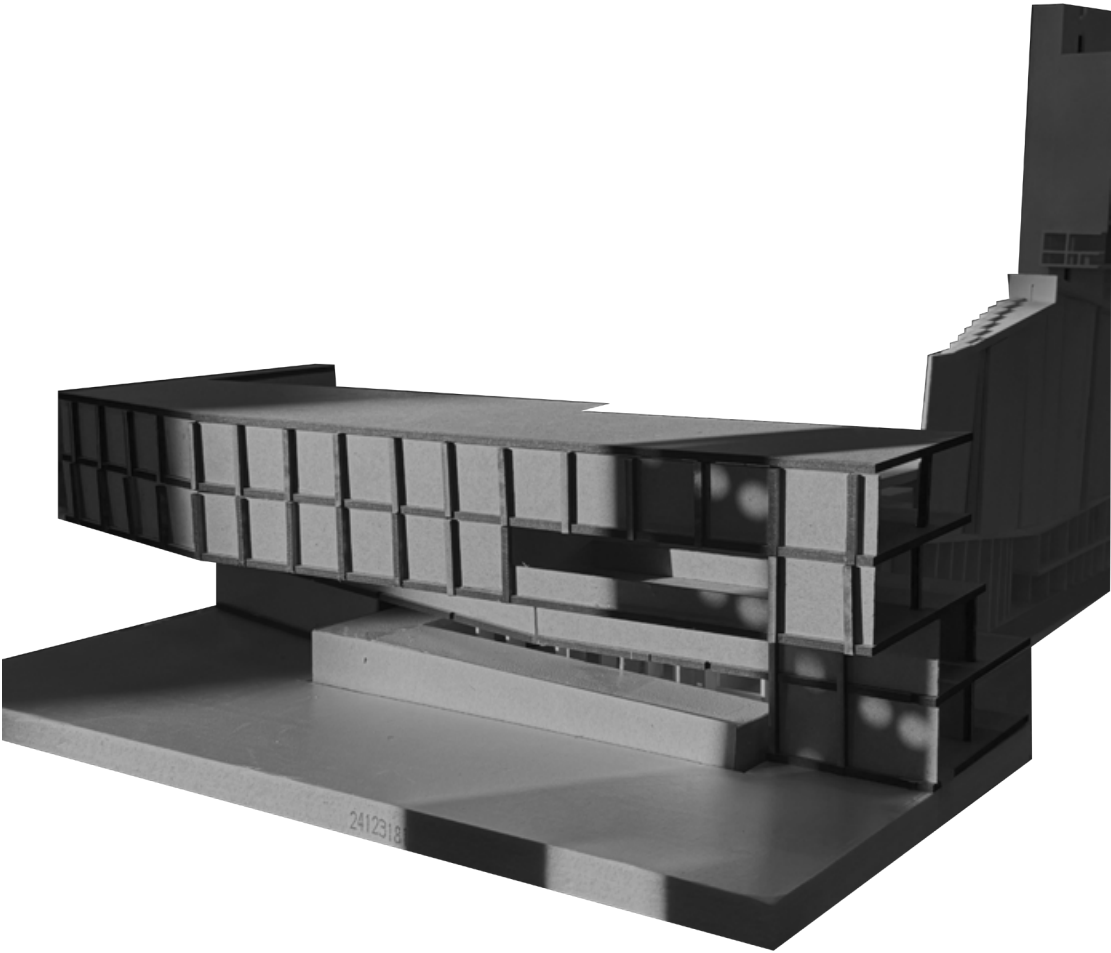
The building is mainly concrete with a system of active insulation consisting of a network of pipes hidden in the walls that permit the circulation of water – the thermal pit water that is still pumped from the ground – over the entire facade at a temperature of 27°C, helping to regulate indoor temperatures and reduce energy use.

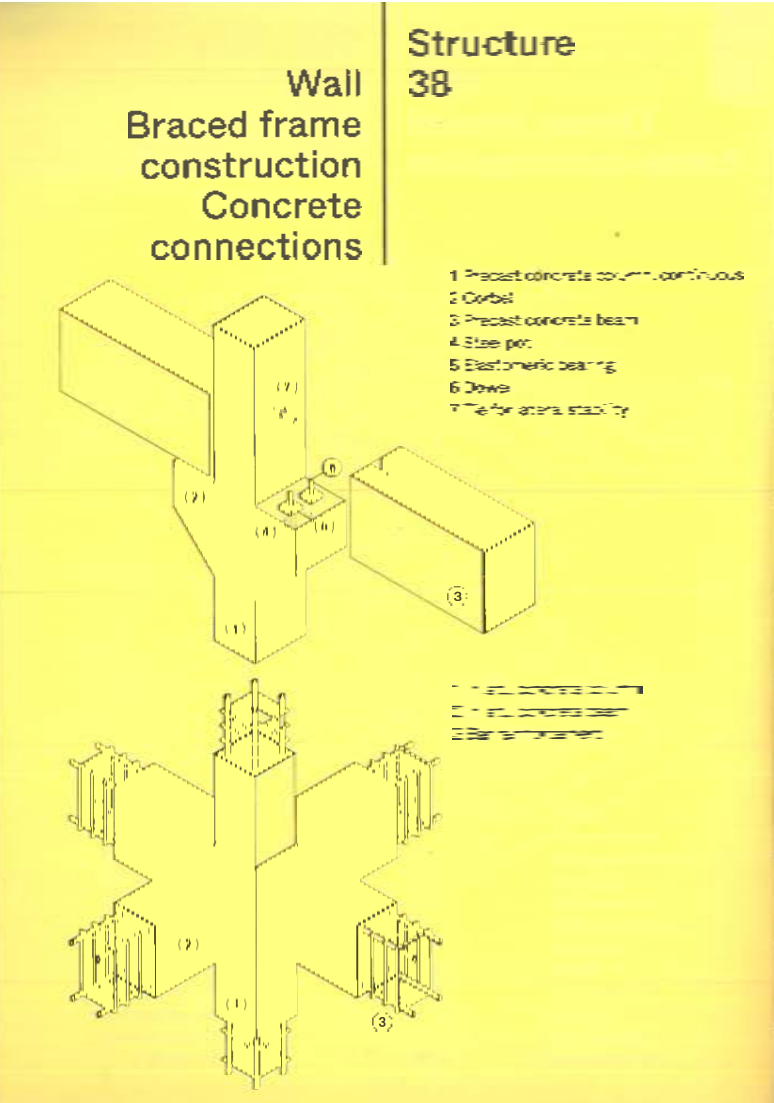
This concept could somehow be incorporated in my building by adding a geothermal heating system. By using hempcrete fillings on the “wall” facade, on the south side of the building, the pipes could get the heat and store it in the ground under the building. Therefore, releasing it during the winter to keep the warmth and helping to keep the cold during summer.

Geothermal insulation is a technique that takes advantage of the Earth’s stable underground temperature to minimize heat loss in winter and overheating in summer. Studies have shown that such systems can significantly reduce the need for conventional heating and cooling, improving energy efficiency and lowering carbon footprints (Smith et al., 2019; International Energy Agency, 2021). Hempcrete, as a bio-based material, further enhances insulation by providing high thermal mass and breathability (Evrard, 2008).









1

2

3

4

5

6

7

1

2

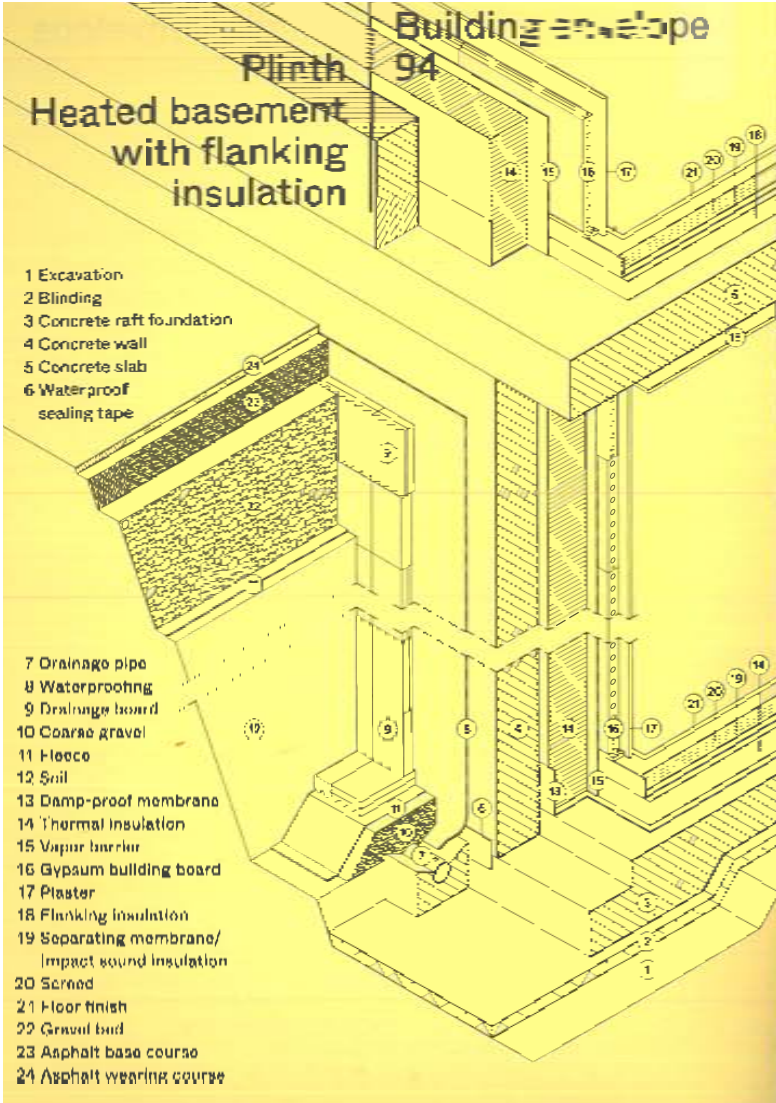
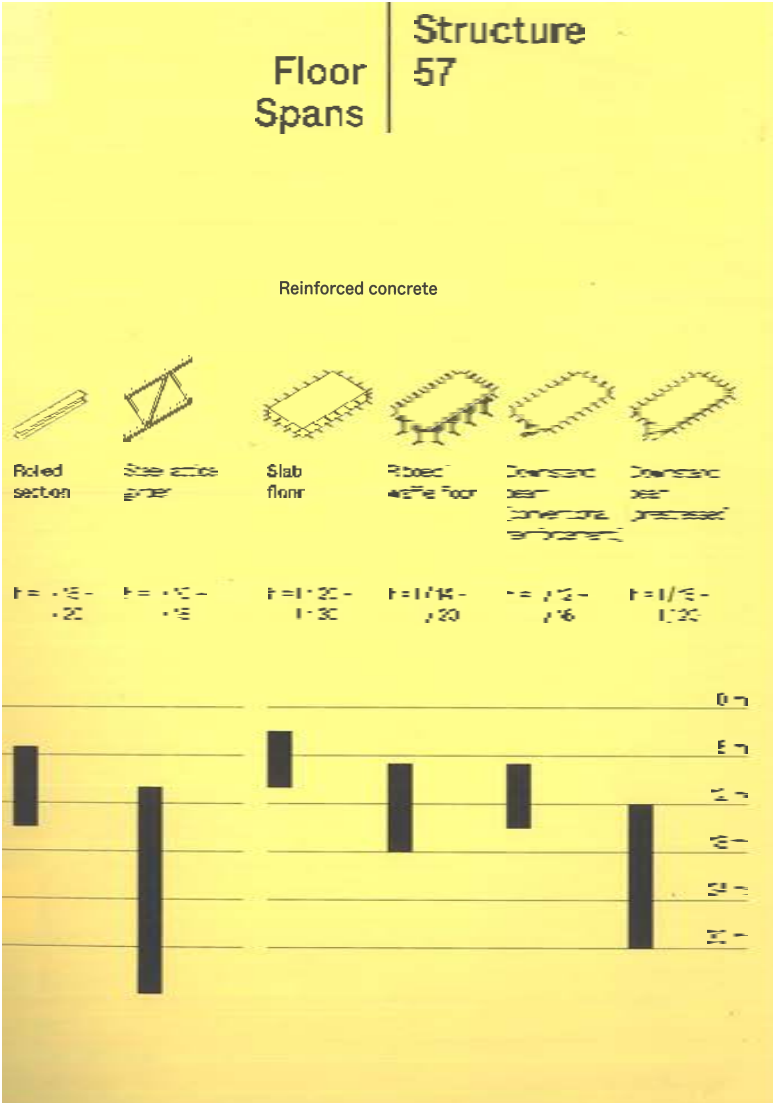
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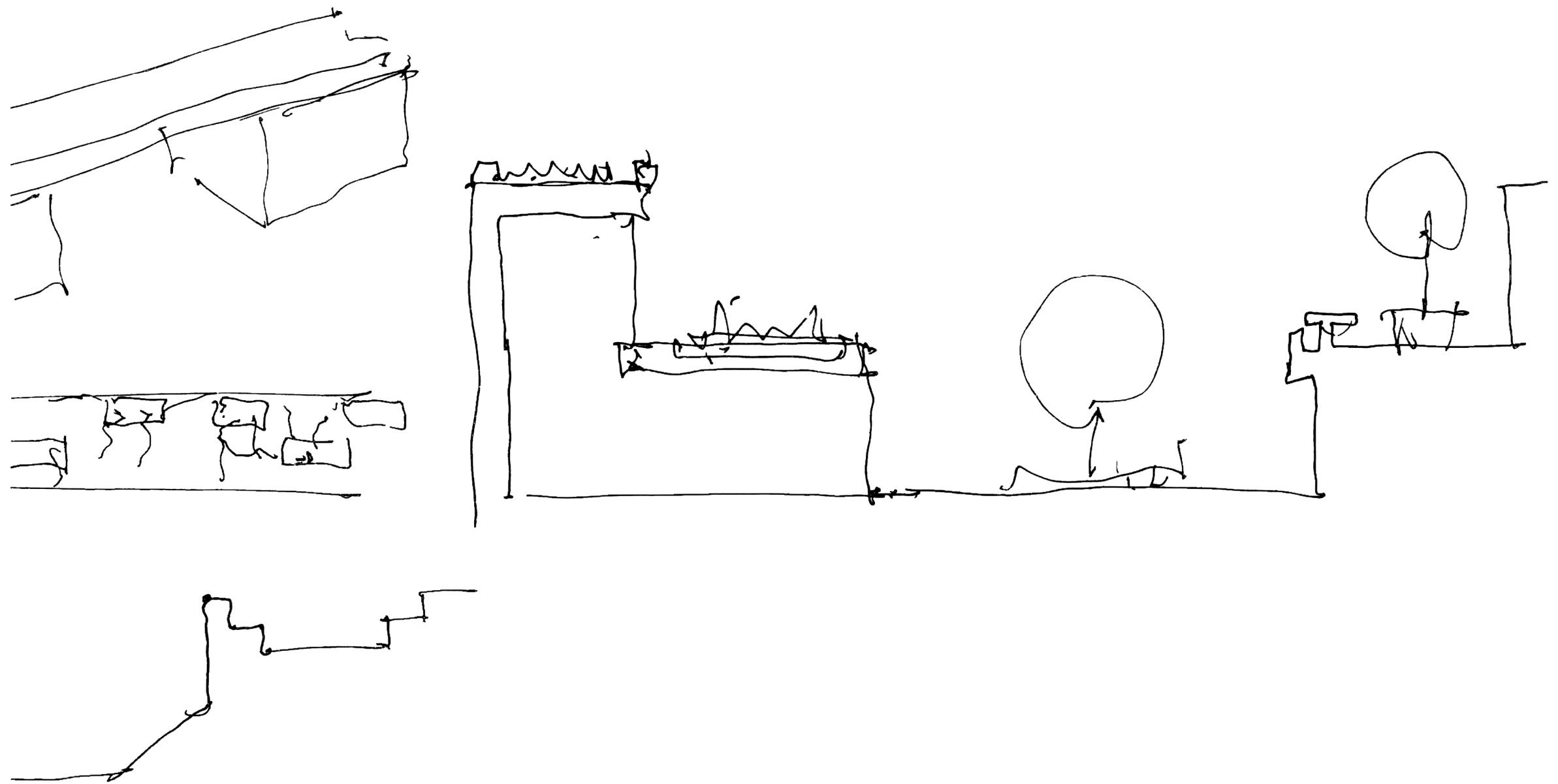
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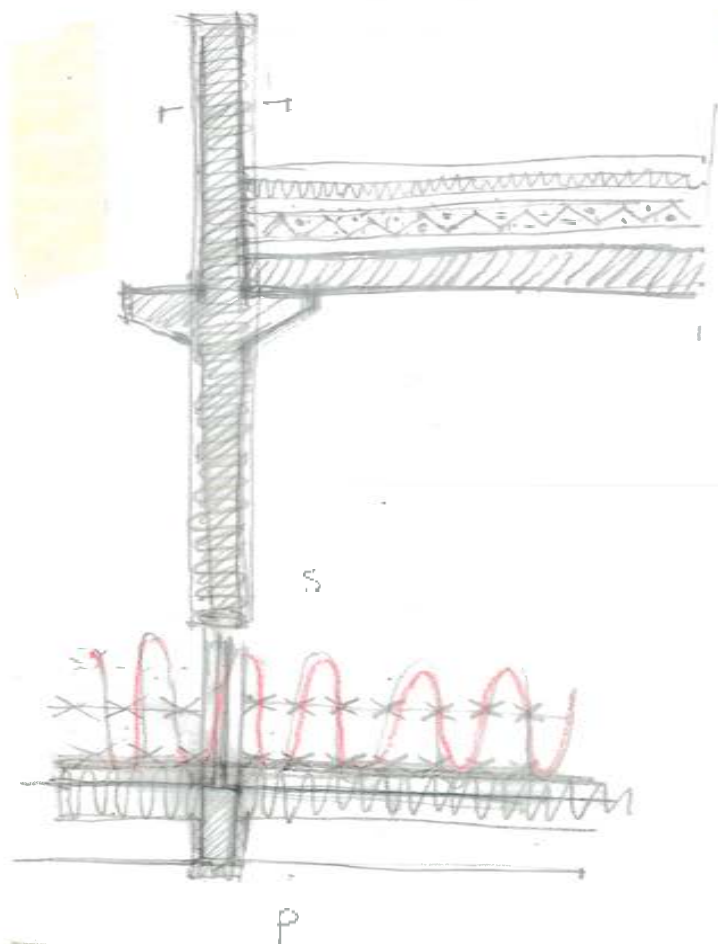
5

6

7







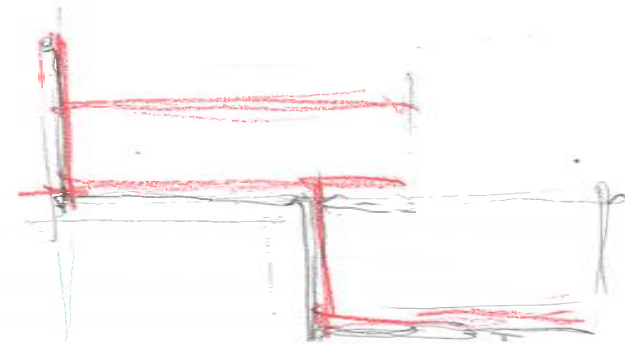
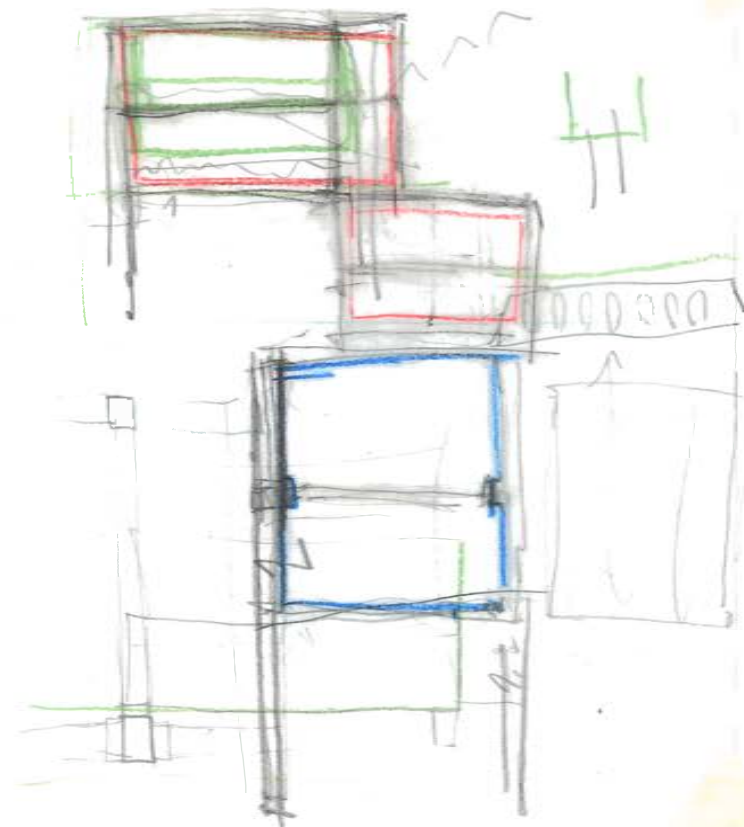
File structure
240mm
30cm
45 - 7.5m

$R=5^{\circ}C$

44AB 436m.

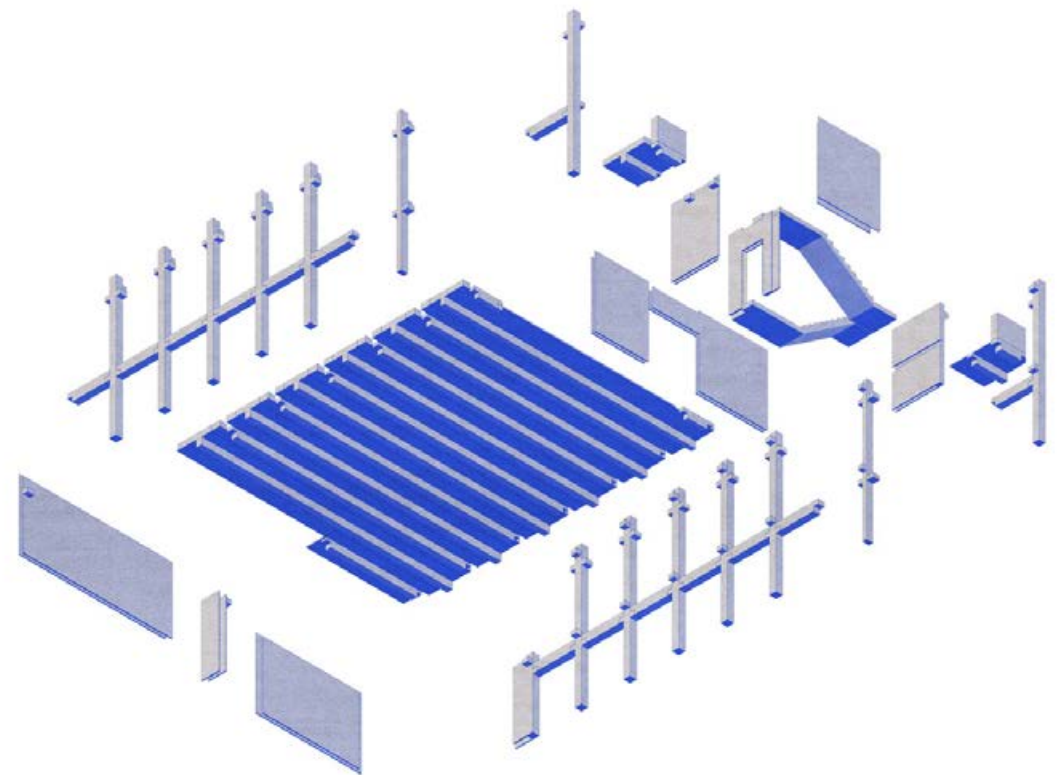
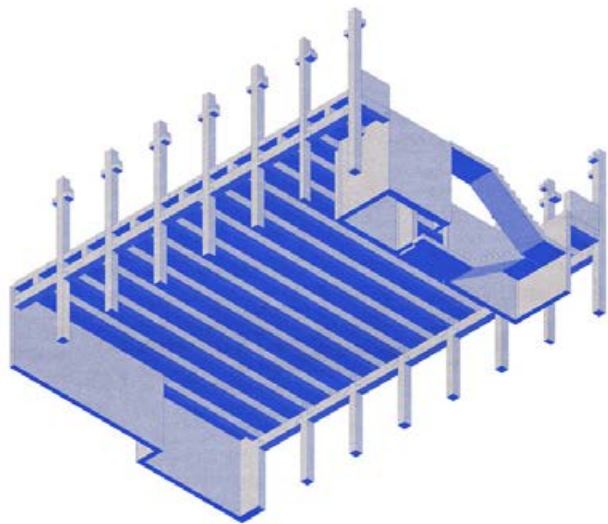
File structure
240mm
30cm

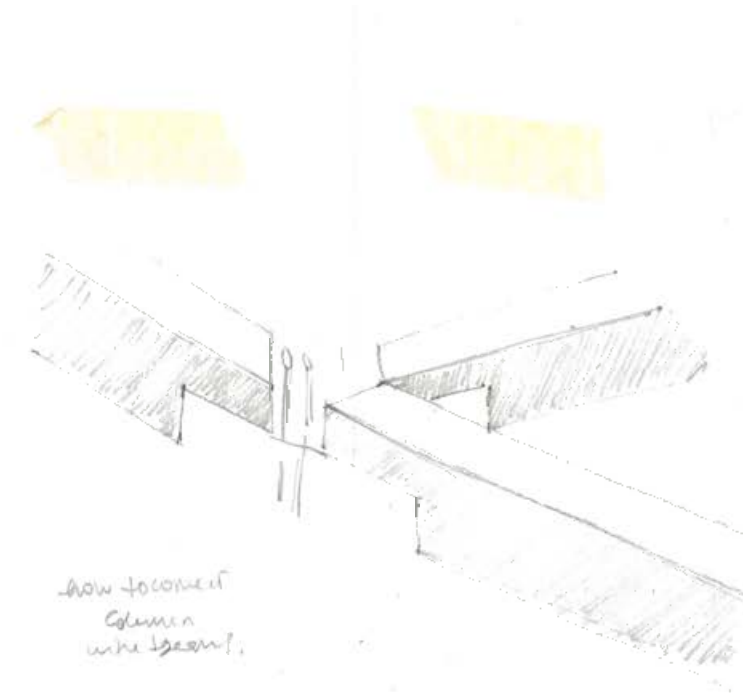
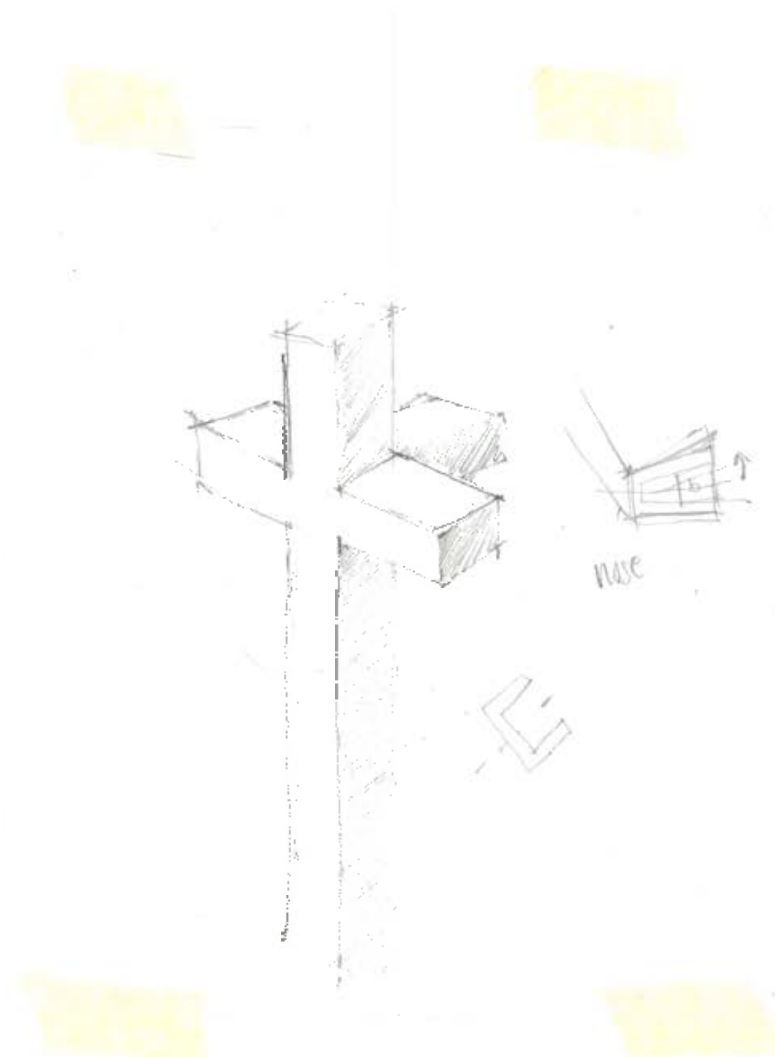
notes on thermal envelope
thermal phase
path

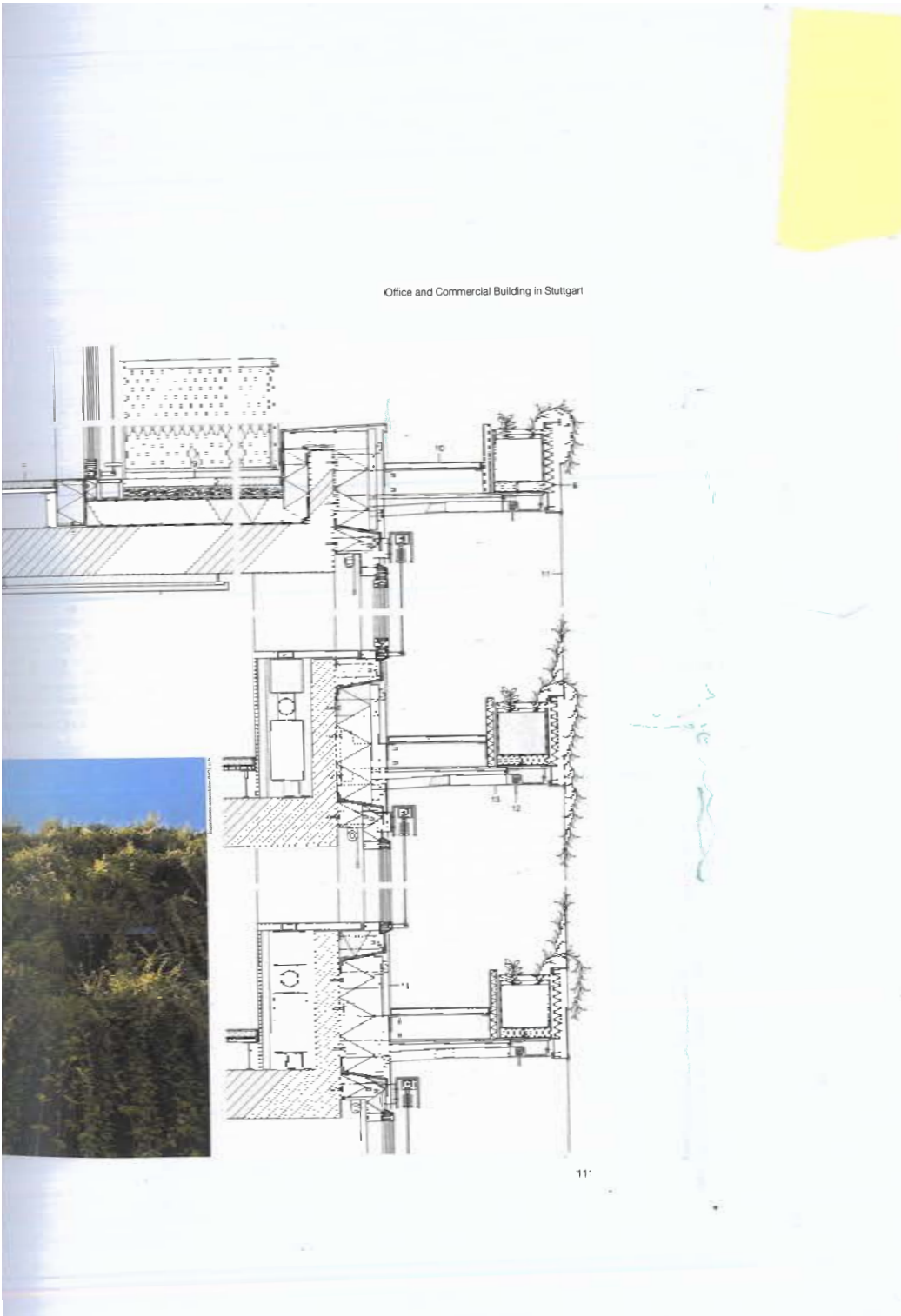
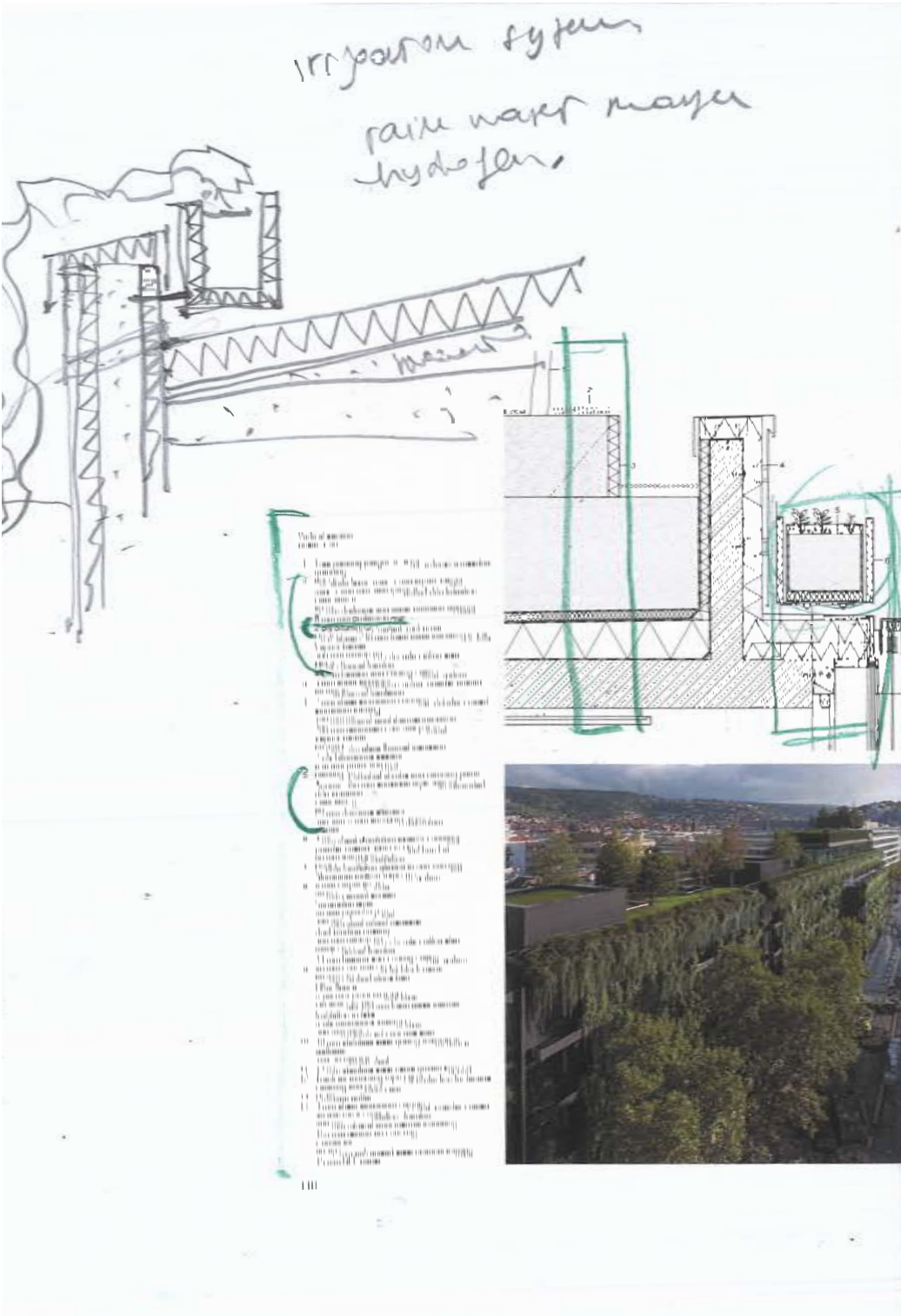


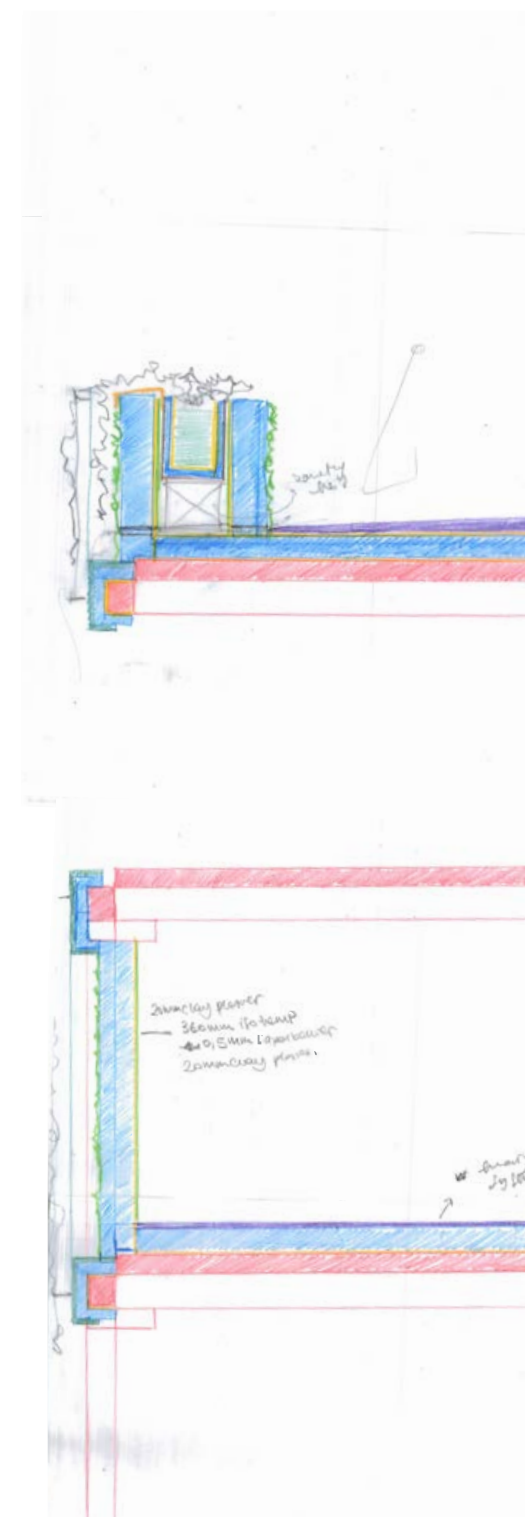
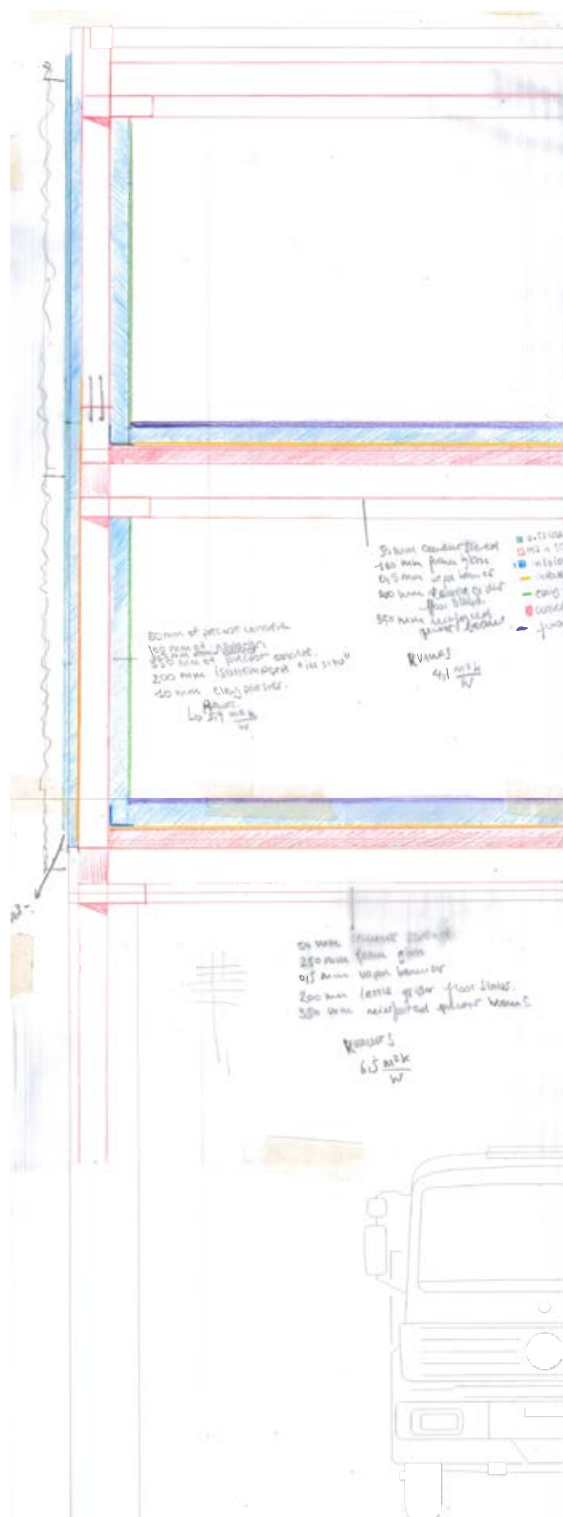












The Picturesque Garden

In the 18th century in Great Britain there a new art was developed, the picturesque garden. Its aim was to merge different typologies of art into one that could have a direct relation with manmade elements and nature. As stated by Christopher Hussey, the picturesque garden can be defined as:

“the relation of all the arts to one another, through the pictorial appreciation of nature, was so close that poetry, painting, gardening, architecture, and the art of travel may be said to have been fused into the single ‘art of landscape’.” (Hussy, 1927)

Where the aim was to enhance the of pictorial values and balancing them between the real and the artificial. Therefore, trying to create an illusion of natural perfection, behind extremely studied framed visions. This approach was well studied by multiple typologies

of experts to create the best piece of landscape art, making the picturesque garden as primacy of pictorial values and the universal mode of vision of the 18th century.



WALL THICKNESS CALCULATION \rightarrow window inside window.

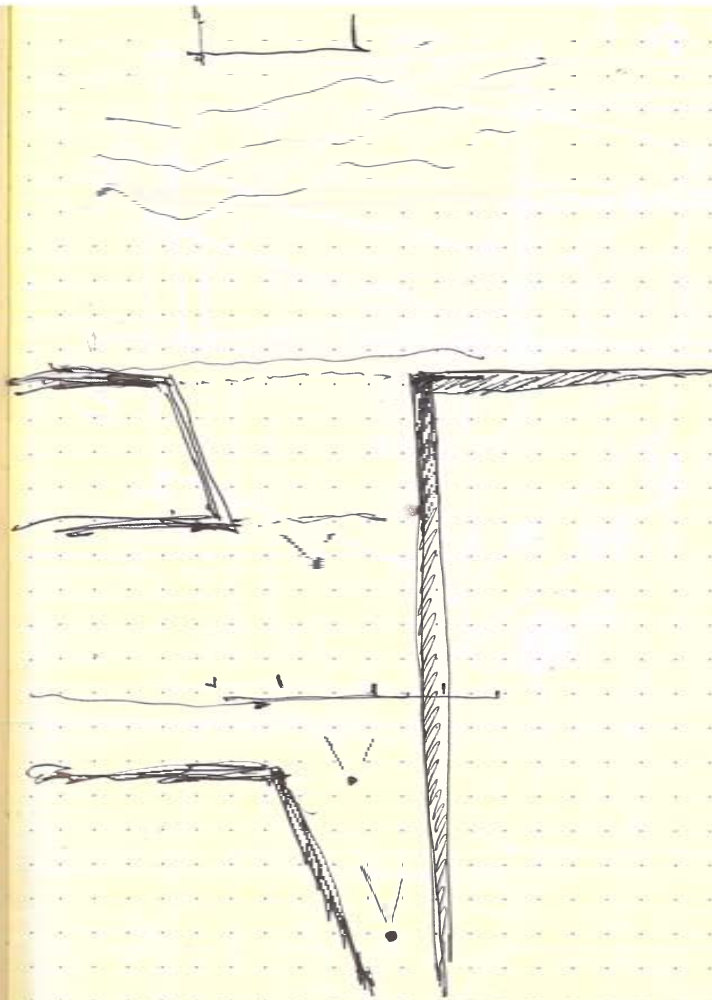
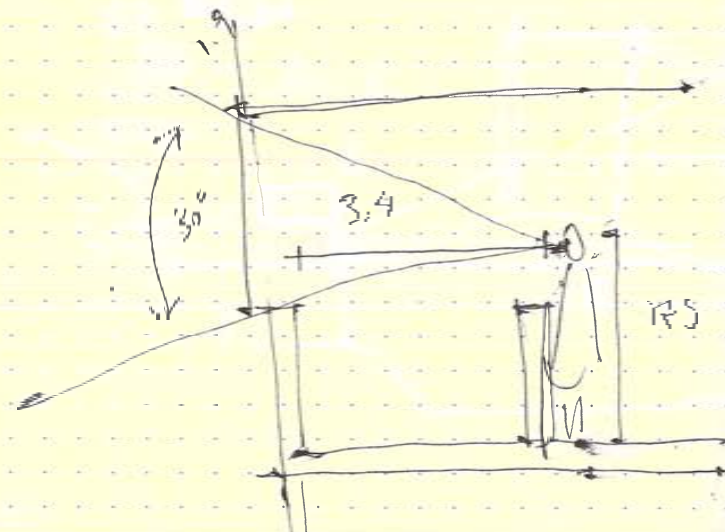
$$T = \frac{W_{\text{inside}} - W_{\text{outside}}}{2} \times \tan \theta$$

$T = \text{thick} \rightarrow \text{the wall}$

$\frac{1}{2} \cdot 2 = 1$ der 2. Punkt

2. $1 - 2x = 0$ für $x = \frac{1}{2}$ ist $f''(x) = 0$

ξ = angle of perspective of scene



$$D_{\text{illusion}} = \frac{h \times d}{H}$$

D illusion = perceived distance

h = height of the observer's eye level

d = actual distance to the landscape

H = height of the framed opening



$$h = 1.75 \text{ m}$$

$$d = 120 \text{ m}$$

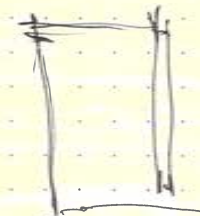
$$H = 1.50 \text{ m}$$

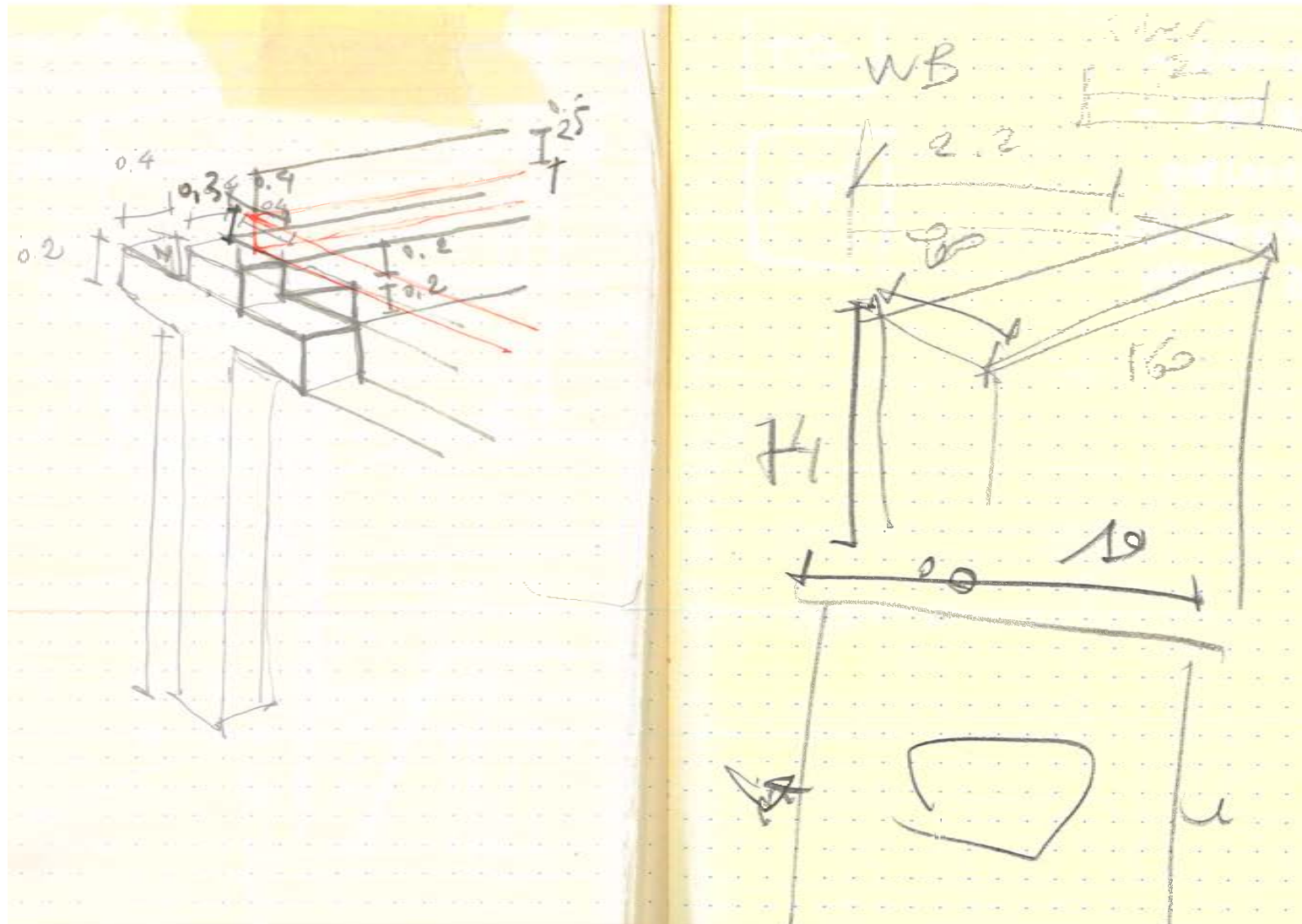
$$1.75 \cdot 120 = 210$$

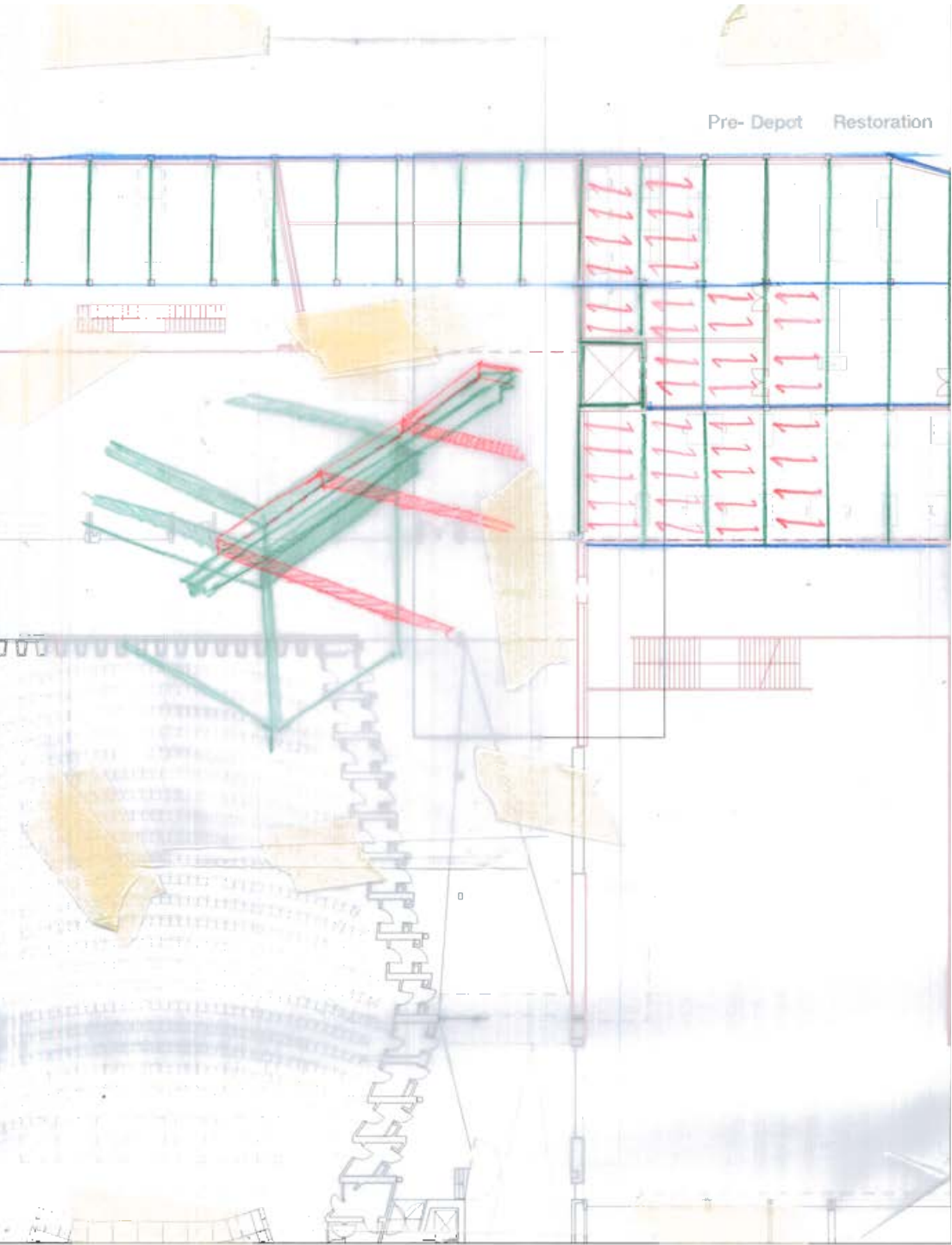
$$210$$

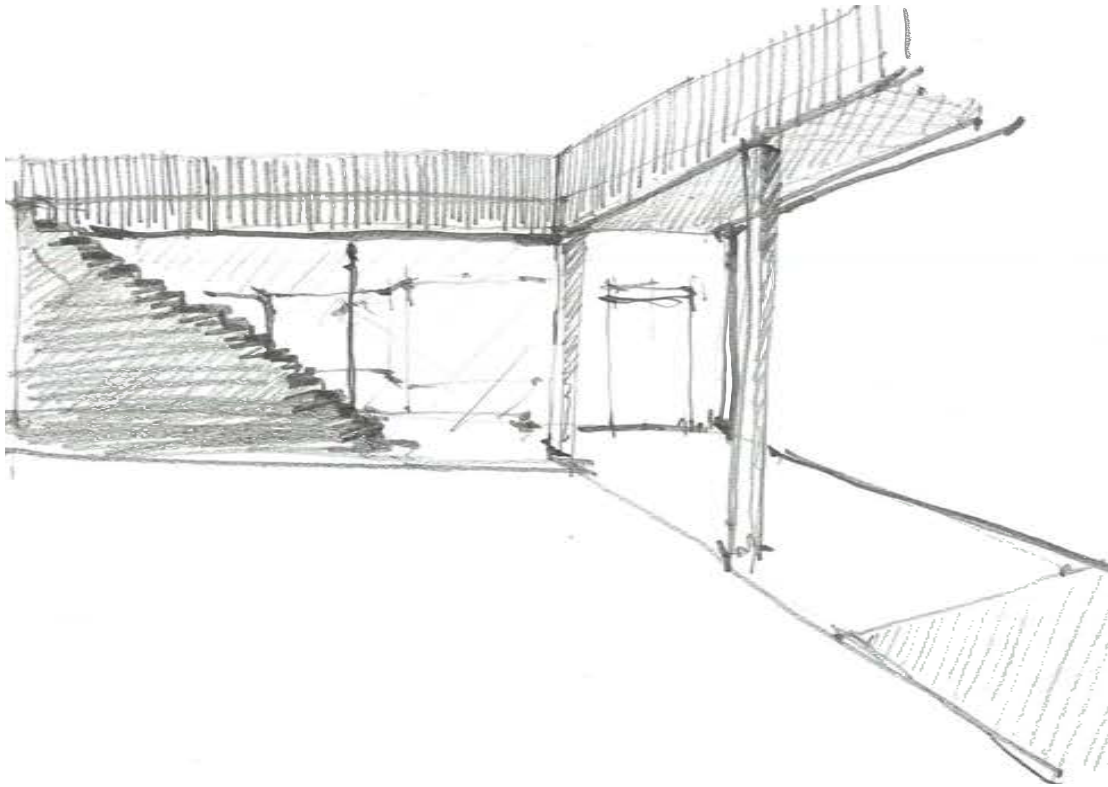
$$1.75 \cdot 120 = 210$$

$$210$$

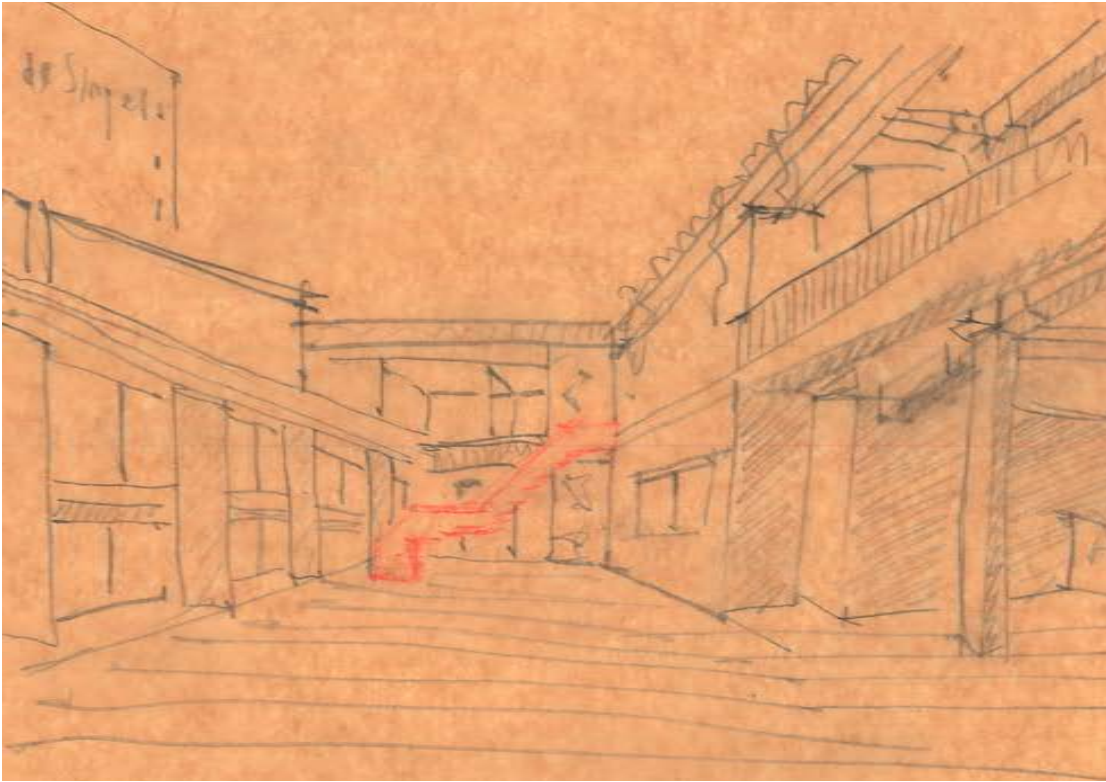


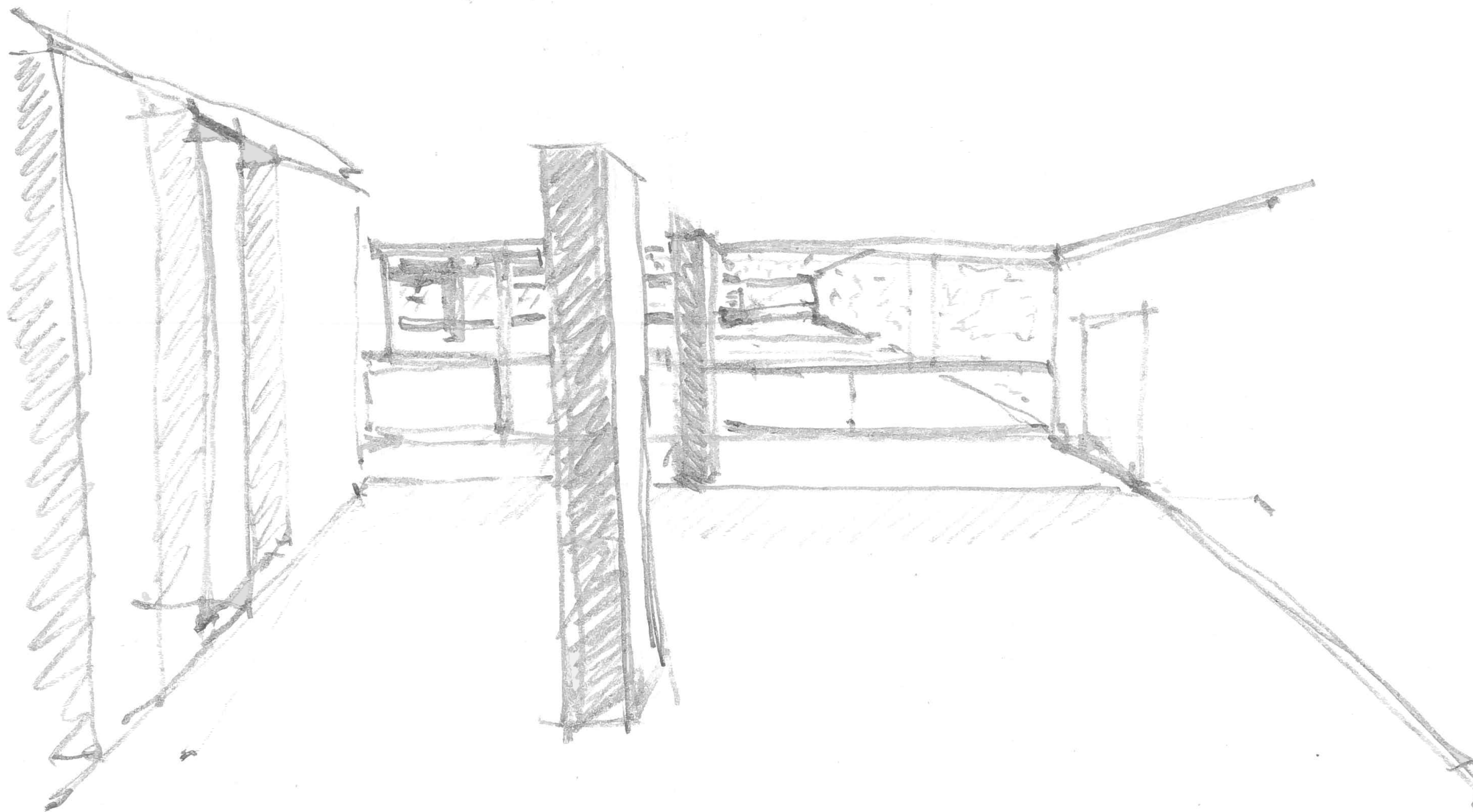




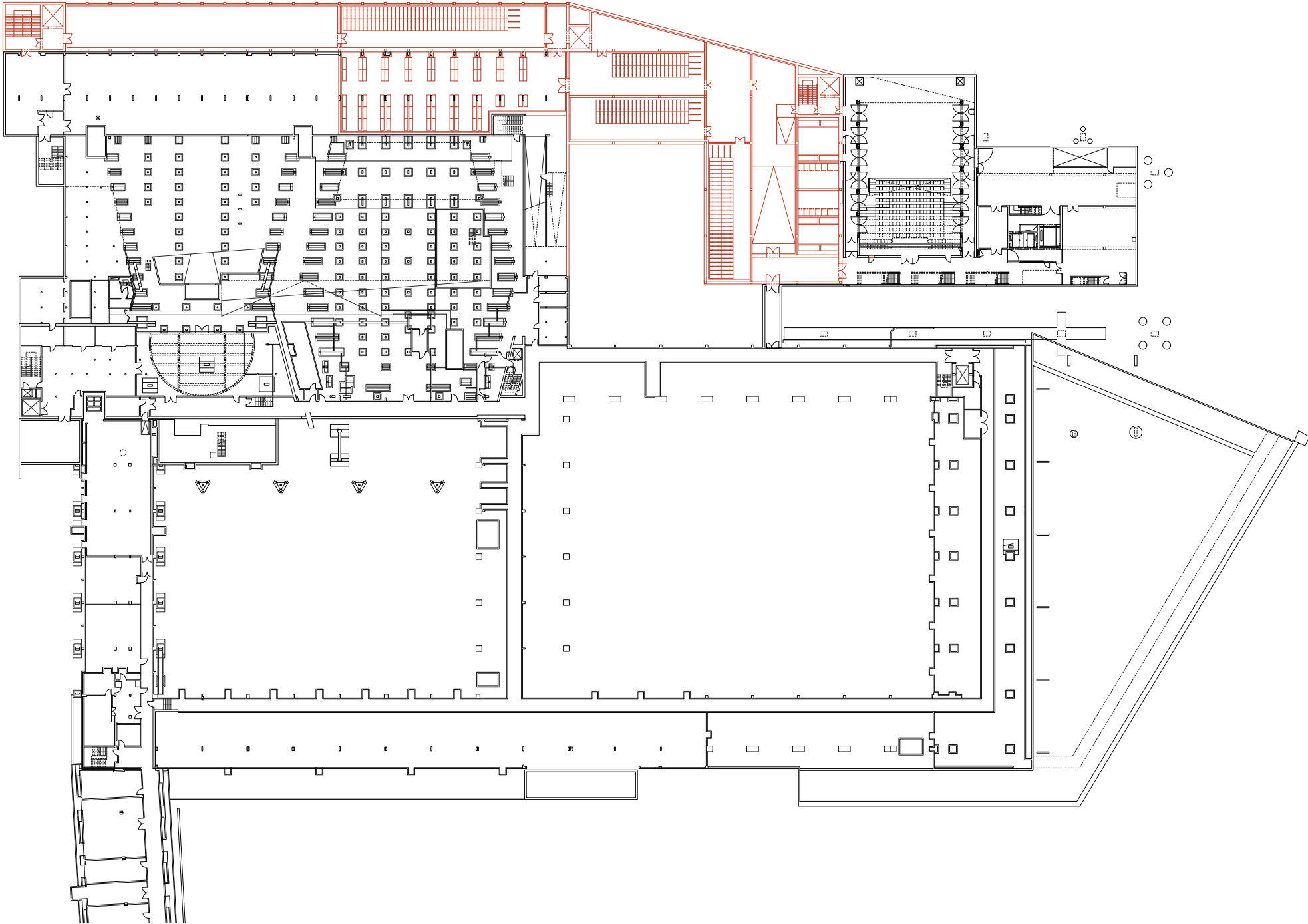


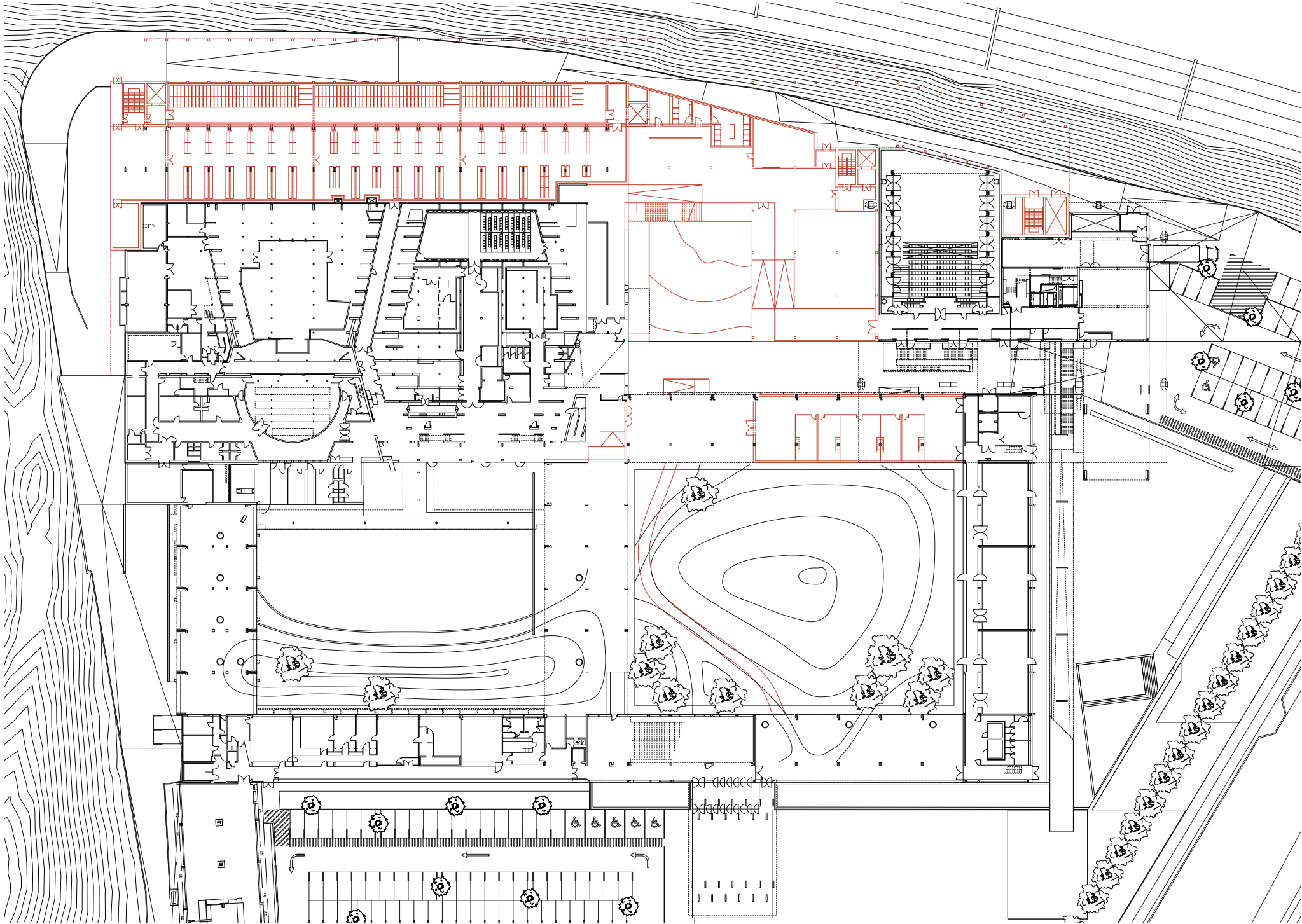


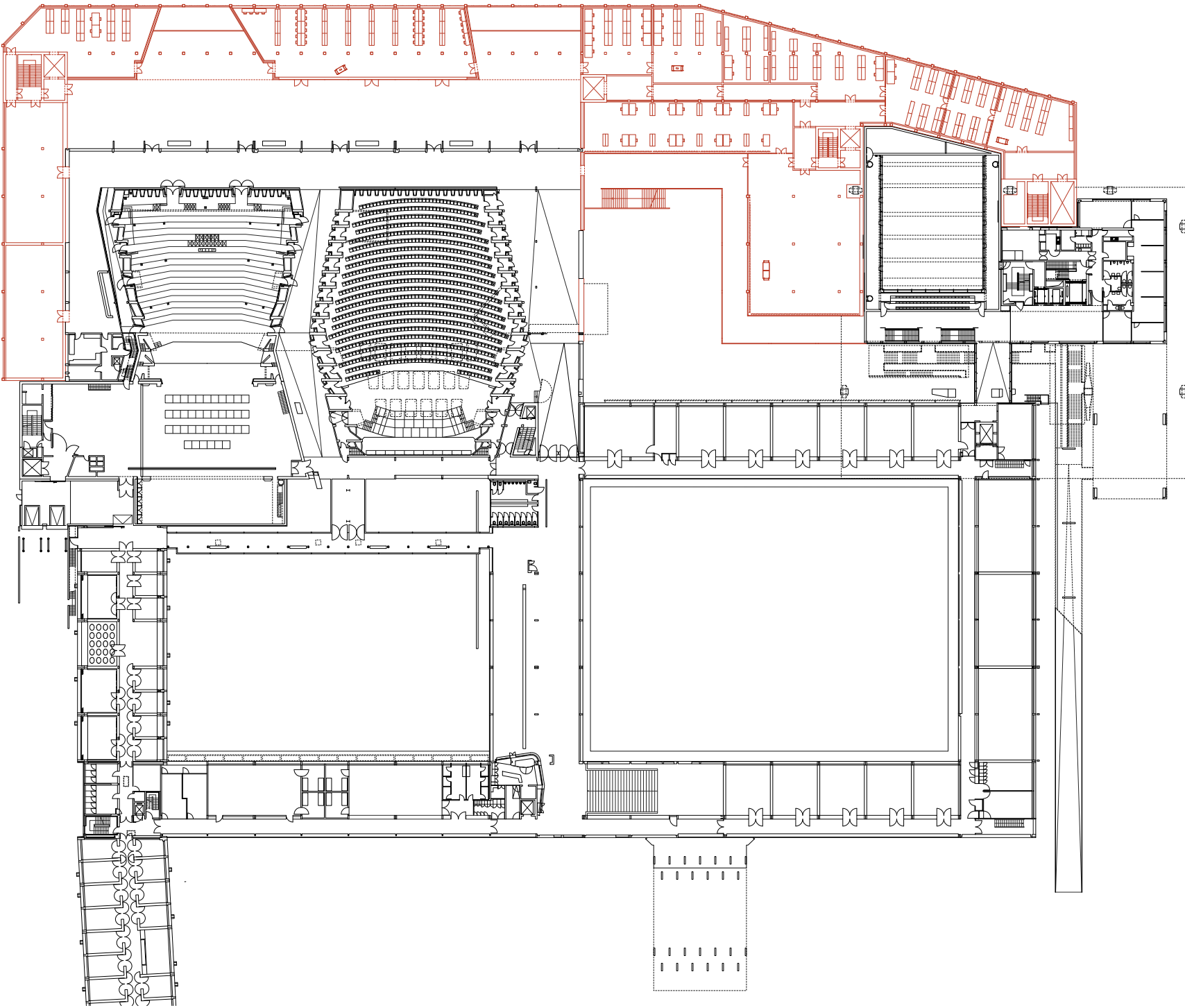


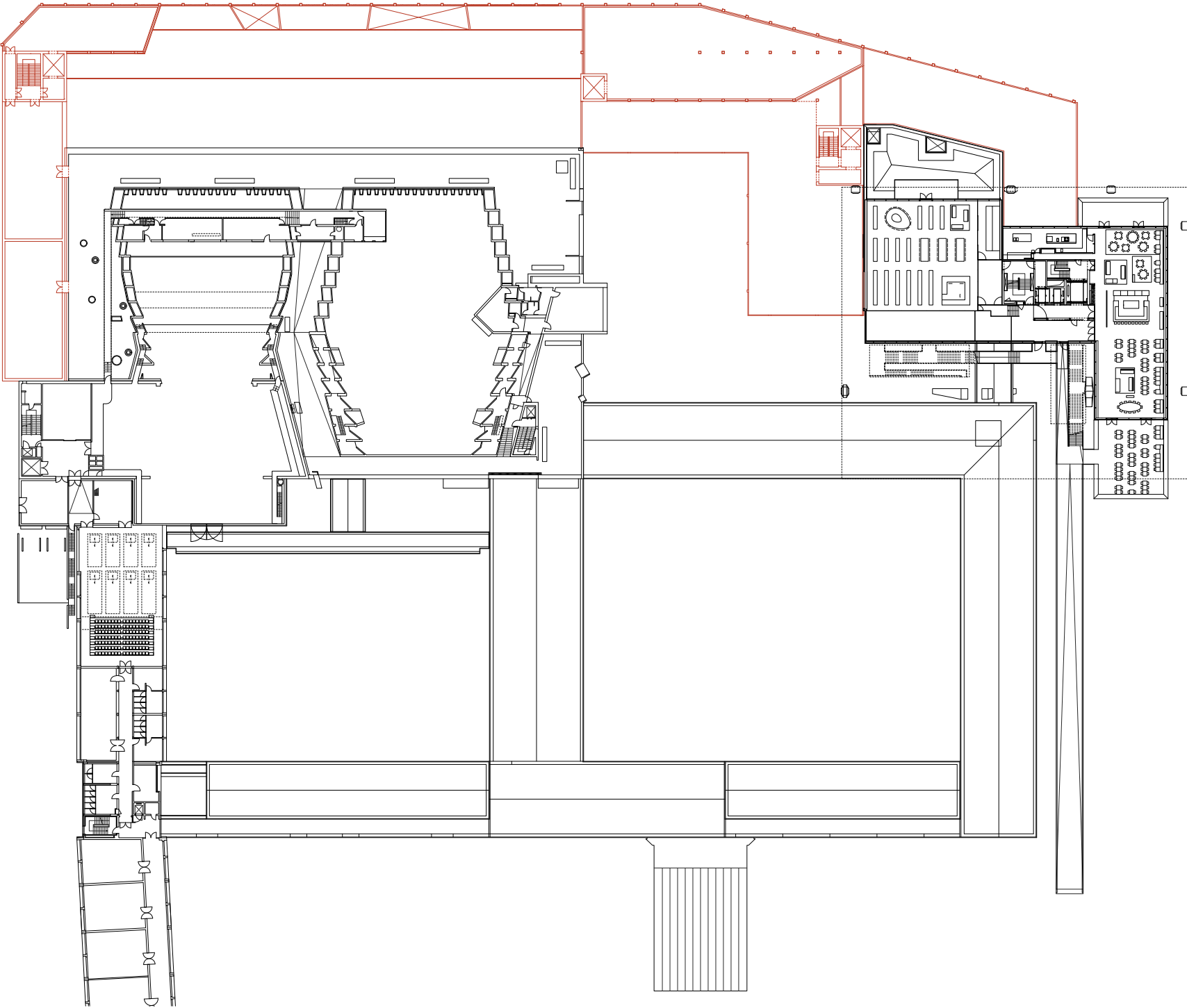


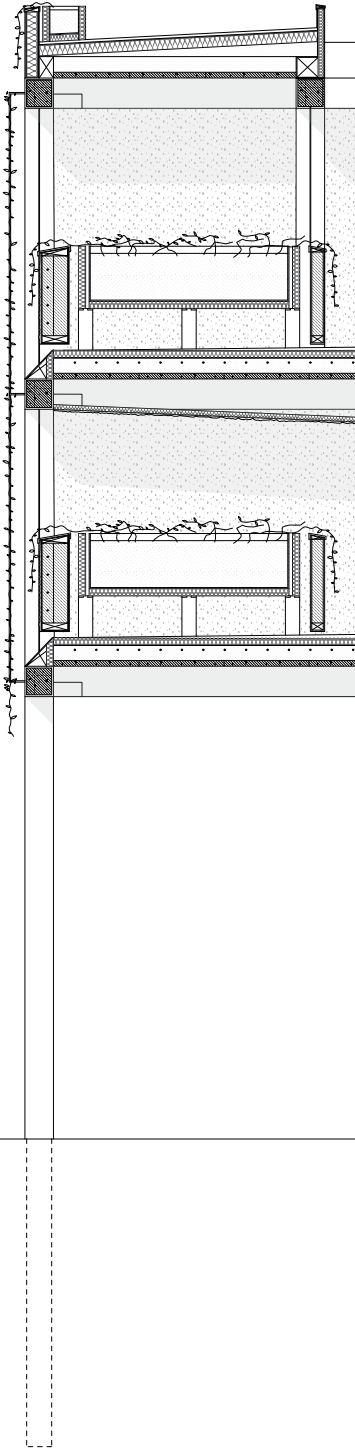
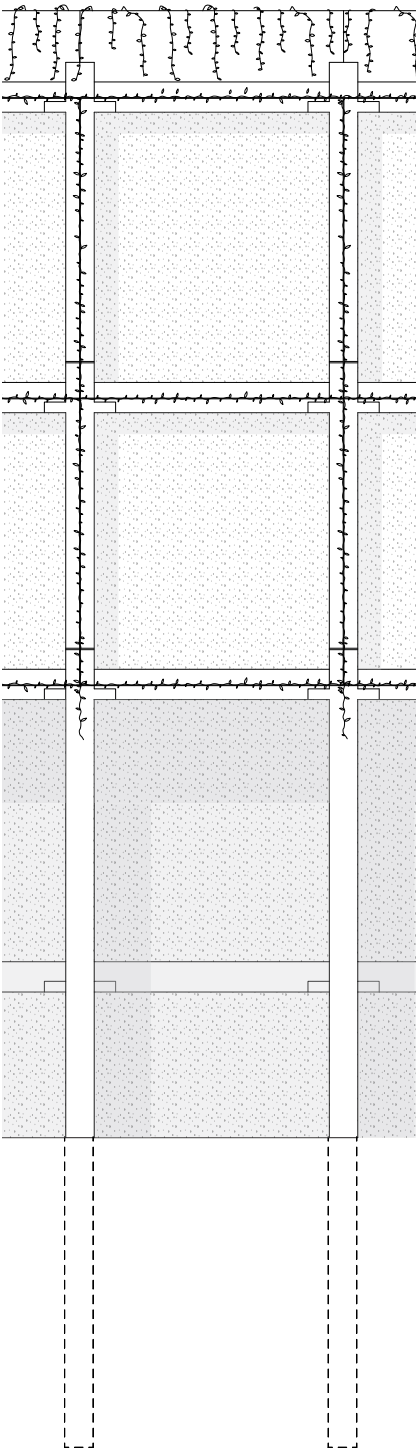
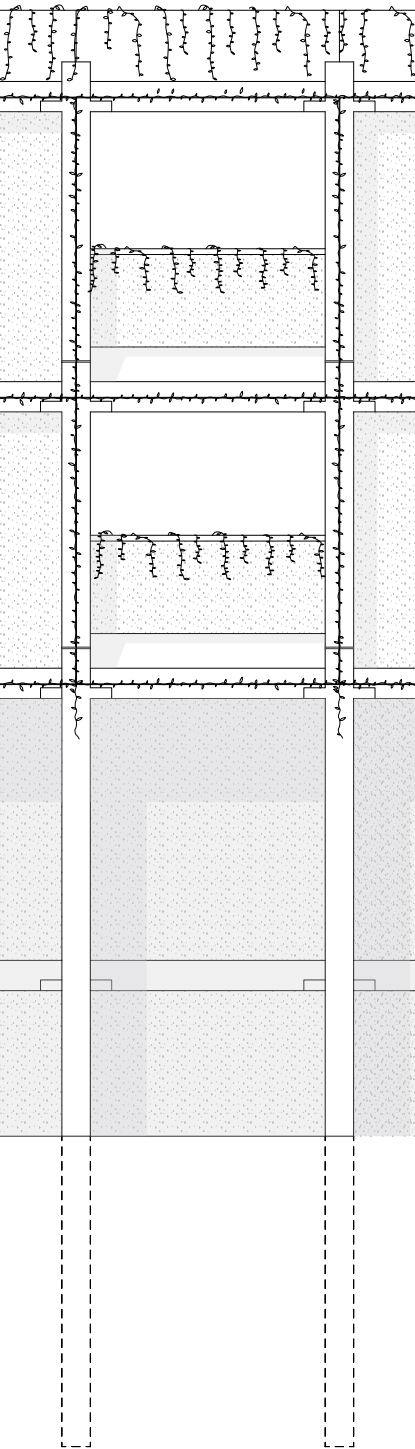


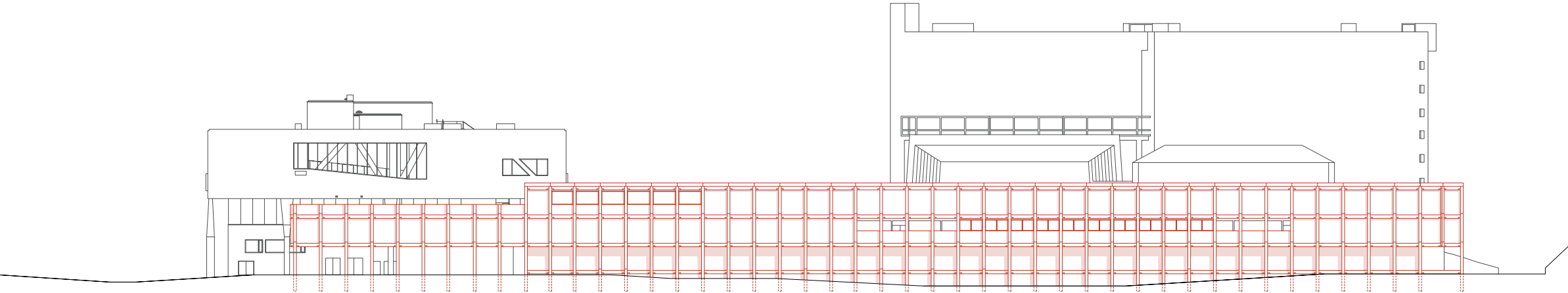


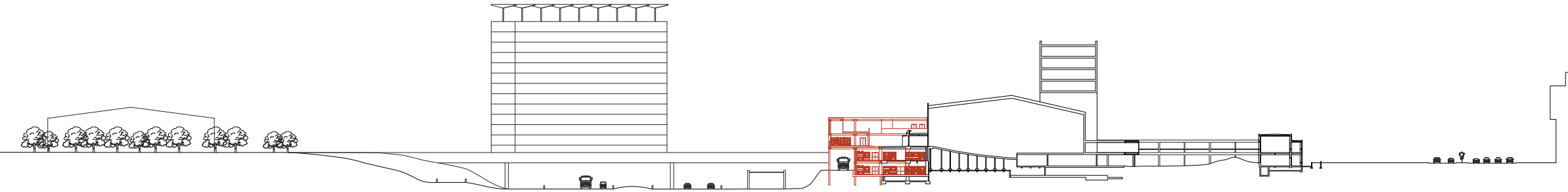


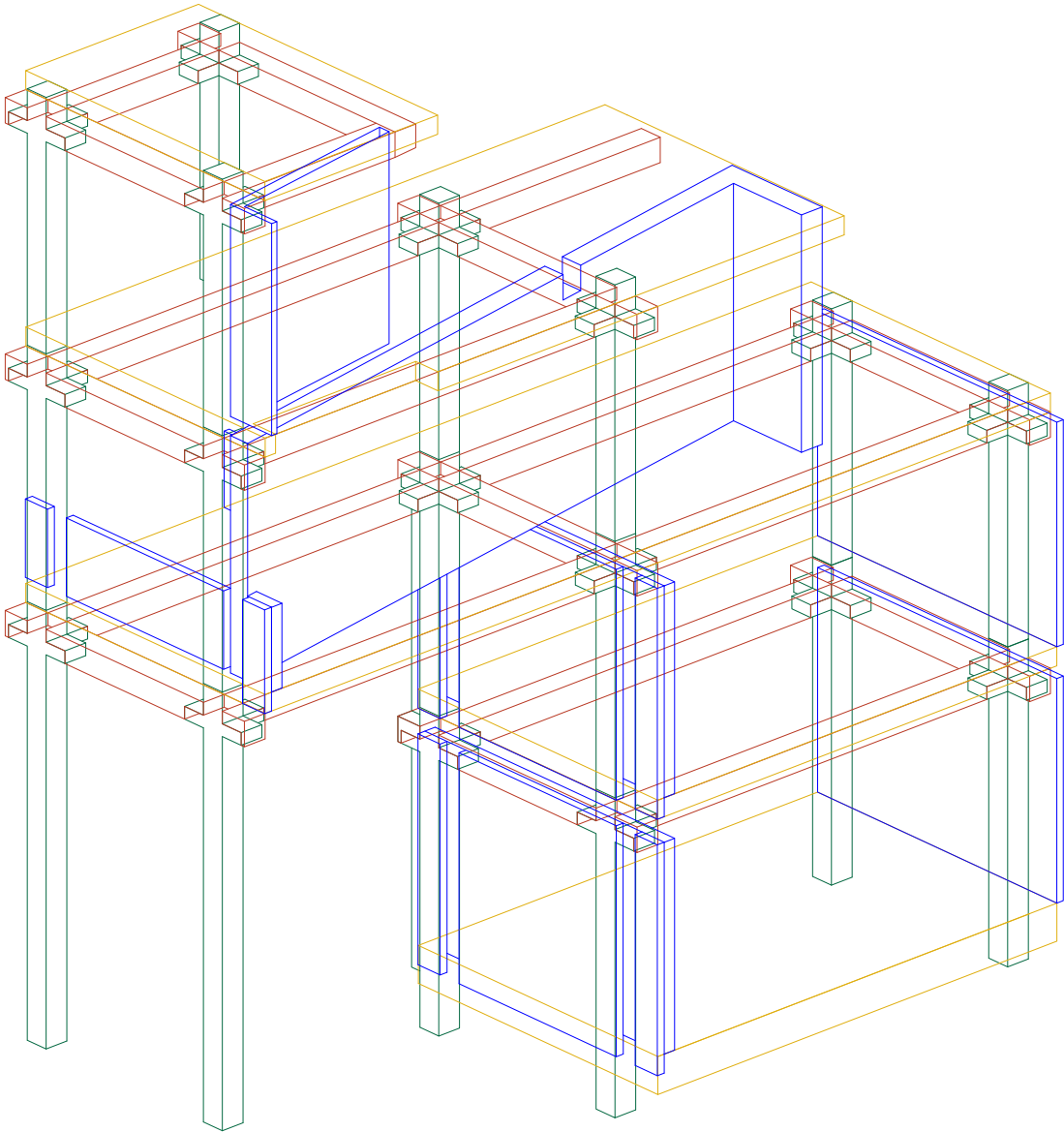


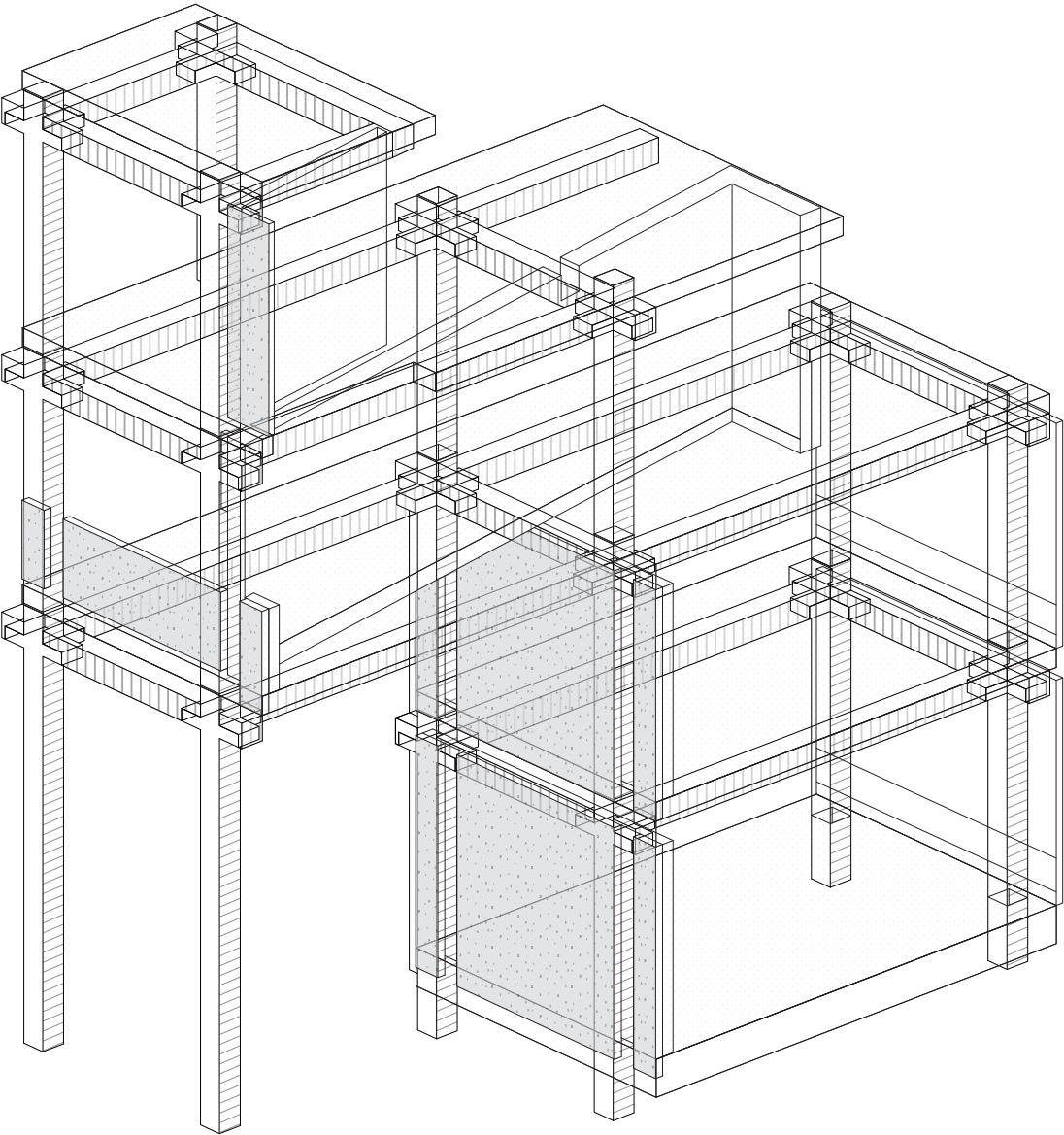












Tavoli
Carlo
Lamberto

P2

Brief	Required	Proposed	
Name	Size m ²	Size m ²	
Total	5145	7748	
Public space	700	1712	
Reception and counter - exhibition space for the unknown architects	100	100	
Exhibition space multifunctional	200	107	35%
Reading room	200	111	2.88
Lobby	200	104	414
Work Space	860	1512	
Staff workspace	300	301	
Archive workspace	300	334	
Large meeting room	100	80	
Small meeting room	100	49	
Common space	100	283	
V&A offices	160	165	
Logistics	3565	4524	
Storage packaging material	120	120	
Loading / Unloading	100	100	
Waiting Depot	100	107	117
Triage space / contaminated space	100	100	73
Cleaning	100	77	94
Quarantine	120	100	126167
Processing	100	100	14891
Pre-Depot	100	100	159
Restoration studio	100	100	77
Digitization	100	100	77
Depot storage	2000	2000	
Climate class photo depot	100	100	100
View Depot	100	100	213
Server space	100	100	

existing
in 500

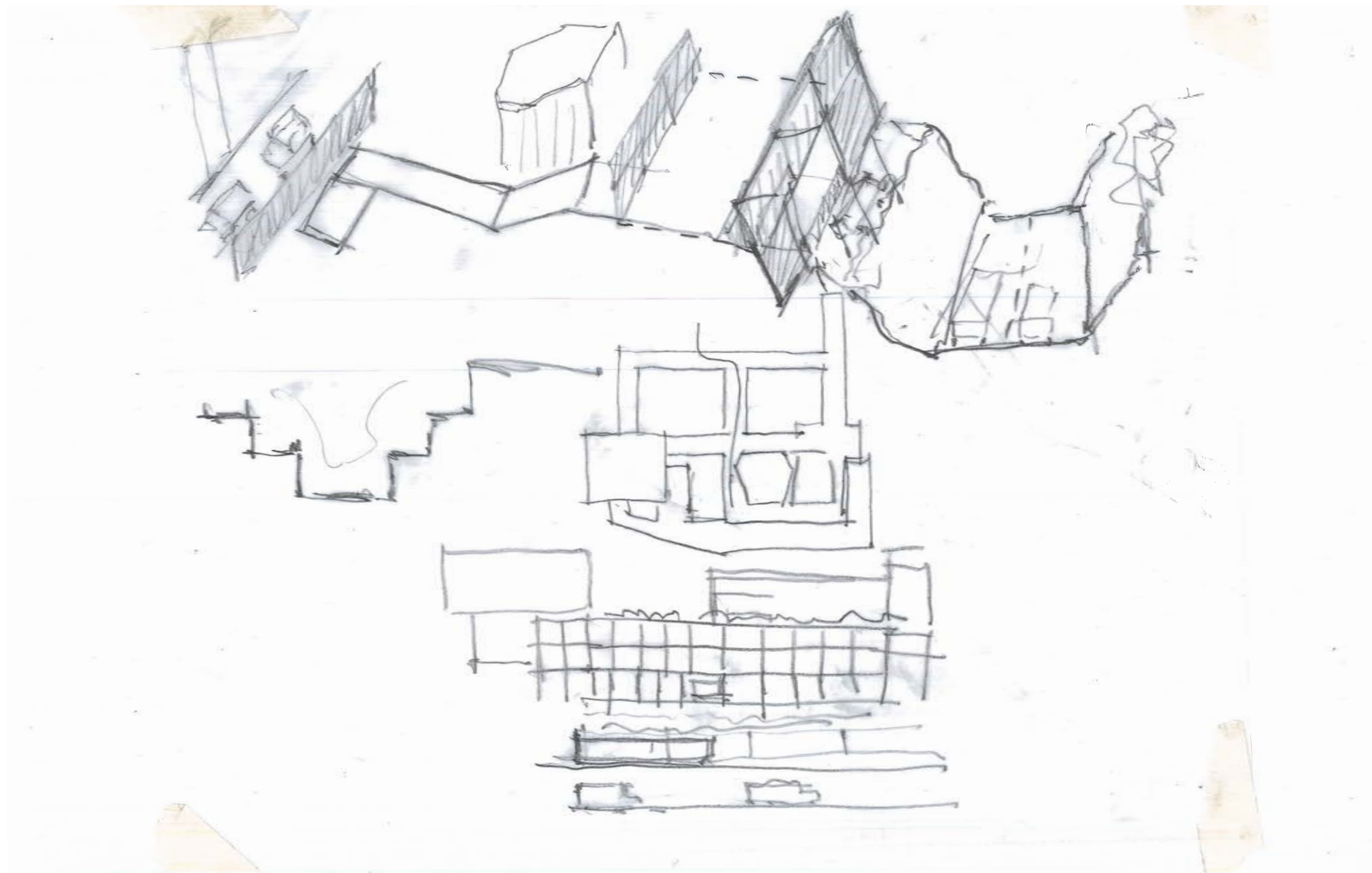
1. 740	74 x 40	1480
2. 740	74 x 40	1480
3. 600	60 x 40	2400
4. 420	60 x 7	2800
5. 392	56 x 7	2392
6. 350	50 x 7	3242
7. 860	86 x 40	4102
8. 525	75 x 7	4627
9. 460	46 x 40	5087
10. 460	46 x 40	5547
11. 8H.		
12. 740	74 x 40	6237
13. 740	74 x 40	4027
14. 740	74 x 40	767
15. 520	52 x 40	7819
16. 364	52 x 7	8183

Archive Dept

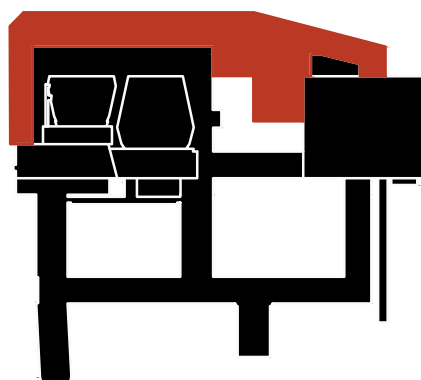
	m ¹	m ¹
1	740	1119
2	700	171
3	600	114
4	420	118
5	392	10
6	350	116
7	860	49
8	525	248
9	460	148
10	460	137

ARCHIVE m¹ m¹

	m ¹	m ¹
1	740	169
2	740	111
3	600	114
4	420	118
5	392	10
6	350	116
7	860	191
8	525	411
9	460	248
10	460	148







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