

The background features a complex, abstract geometric pattern composed of numerous thin, light blue lines forming a wireframe mesh. This mesh is punctuated by several larger, more densely triangulated clusters of points, creating a sense of depth and organic form. The overall effect is minimalist and modern.

# PORTFOLIO

Sidonie Muller

## SKILLS

Autocad 2D	▲ ▲ ▲ ▲ △ △
VectorWorks	▲ ▲ ▲ ▲ △ △
Archicad	▲ ▲ ▲ △ △ △
Rhinoceros	▲ ▲ ▲ ▲ △ △
Grasshopper	▲ ▲ △ △ △ △
Vray	▲ ▲ ▲ △ △ △
Revit	▲ ▲ ▲ △ △ △
Photoshop	▲ ▲ ▲ ▲ △ △
Indesin	▲ ▲ ▲ △ △ △
Illustrator	▲ ▲ ▲ ▲ △ △
Microsoft Office	▲ ▲ ▲ ▲ △ △
Modeling	▲ ▲ ▲ ▲ △ △
Langueages	
French	Native language
English	Fluent
German	Fluent
Italien	Basic

## EDUCATION

2016	<b>University of Strasbourg</b>
2015	Research in Visual Arts : Architecture & Design
2014	<b>National School of Architecture of Strasbourg</b>
2013	<b>France</b> Master of Architecture, Graduated with Honors  Final thesis project: "High-Corridor, Montreal's Urban Break" Professors: Dominique Coulon & Alexis Meier
2012	<b>SAPIENZA University of Roma</b>
2011	<b>Italia</b> Erasmus Exchange Master 1
2011	<b>National School of Architecture of Strasbourg</b>
2008	<b>France</b> Bachelor of Architecture

# Sidonie Muller

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French

## HONORS

- 2015 **1st Award in "Mixed-use concept"**  
International Architecture Awards 2015, Architecture Podium
- 2015 **Nominated for Archiprix 2015**  
Archiprix international Madrid 2015 exhibition at ETSAM
- 2014 **Best project 2014 exhibition**  
National School of Architecture of Strasbourg
- 2012 **Second Place Competition LHL**  
for the tourism development in Alsace \_ Light habitat leisure

## WORK EXPERIENCES

- 10.2017  
10.2016 **Bjarke Ingels Group / Design Assistant**  
New-York  
- Competition Stadium, Shanghai  
Physical model  
- Hyperloop, Pod study  
- Wilson shool, Arlington Virginia  
SD phase, detail studies and render  
- MCCO, Manhattan New York  
SD phase, design and technical studies
- 04.2016  
10.2015 **Paul Le Quernec / Designer**  
Strasbourg France  
- Alzheimer unity, Monthléry France  
Final design, construction drawing and details  
- Sport, Tennis Club Strasbourg France  
Final design, construction drawing and details
- 03.2014  
10.2013 **Dominique Coulon & Associates / Architectural Assistant**  
Strasbourg, France  
- Social & Cultural Center Antipode Library, Rennes France  
Design team member, construction drawing  
- Swimming Pool, Dôle France  
Design team member, construction drawing  
Competition:  
- Maillon Theater, Strasbourg France  
Design team member: Master Plan, Elevations  
- Accommodation for the elderly, Chateaulin France  
Concept design team

# Tower in Manhattan

It's a 720,000 square foot commercial office tower from BIG.

The compactness of the site inspired the idea of breaking the conventional tower down into its basic programmatic requirements: Circulation, Work Spaces, and Outdoor Space. This strategy increases efficiency, creates a clear, structure-free floorplate, and will provide the tower with its distinctive character in the skyline.

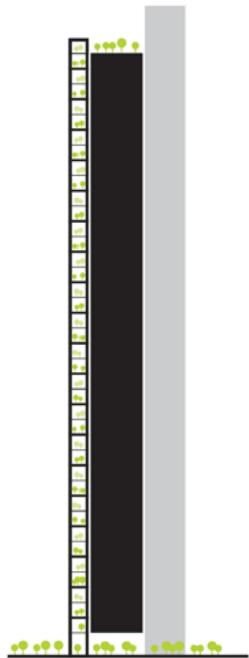
Each program is conceived as an independent tower with its own unique identity. These independent identities are manifested in the programmatic use, geometry, facade, and materiality of each tower. The core tower is conceptualized as a solid monolithic volume with two large openings which expose the vertical movement of the glazed elevators and allow the tenants and guests to take advantage of the city views. The office tower is imagined as a crystal box with an oversized window module to reduce visual distractions on the interior and maximize the potential for light and views.





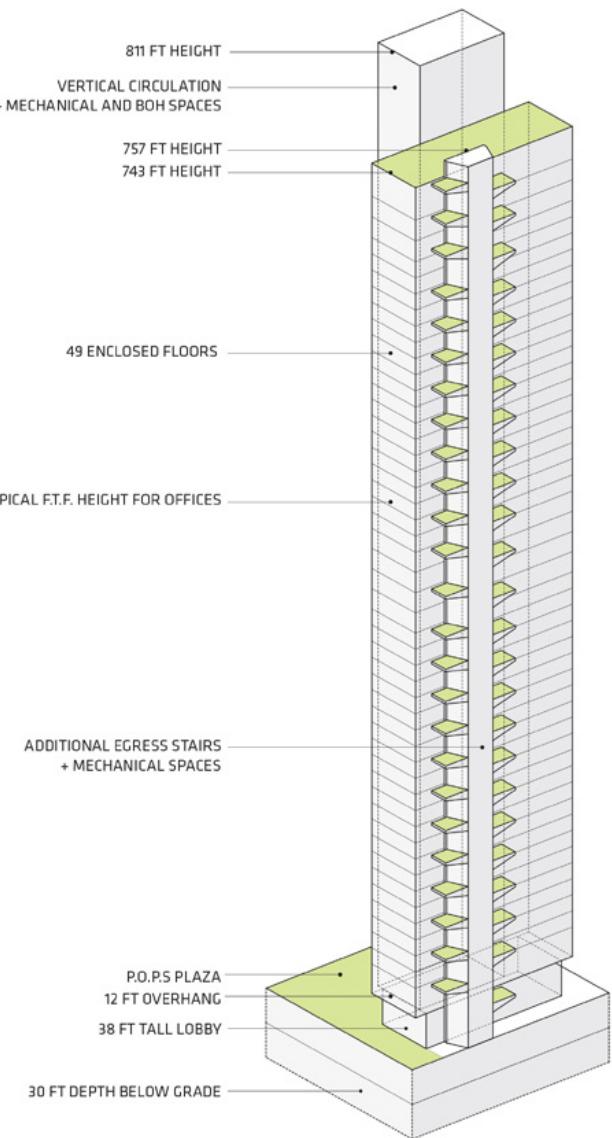
**TYPICAL OFFICE TOWER**

FUNCTIONS SQUEEZED INTO/ON A SINGLE VOLUME



**BUNDLE OF PROGRAM SPECIFIC TOWERS**

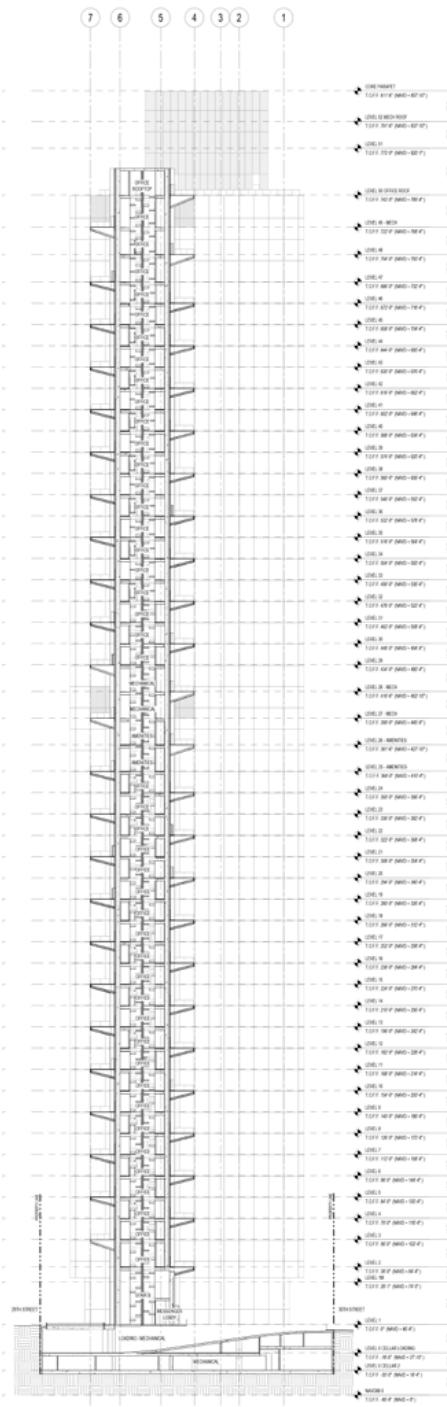
EACH FUNCTION INDEPENDENT AND OPTIMIZED



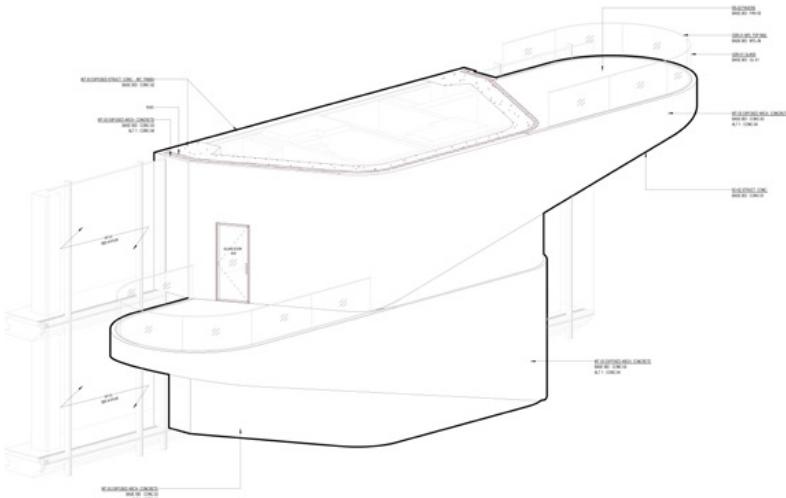
# Revit

I joined MCCO team for the schematic design phase.

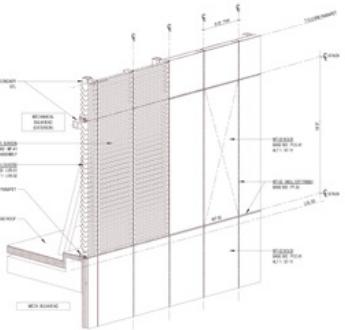
Besides the design studies that I made, I also learned to use Revit. I modeled some stairs, curtain walls, and draw some detail items. For the SD sets I worked on the elevations, the sections and on some facade details and axonometries.



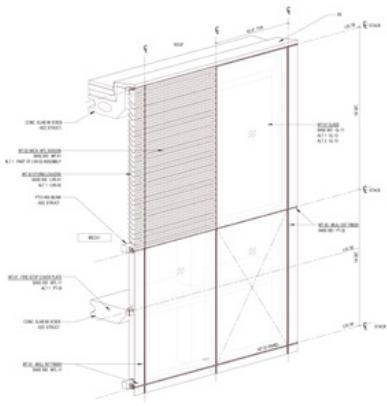
3 NORTH/SOUTH SECTION 2  
10'-10"



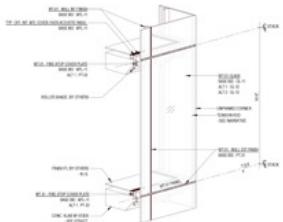
8 AXON - INT-03 ALT GEOMETRY - INSULATED CIP CONC. CURVED  
REF ID: A32



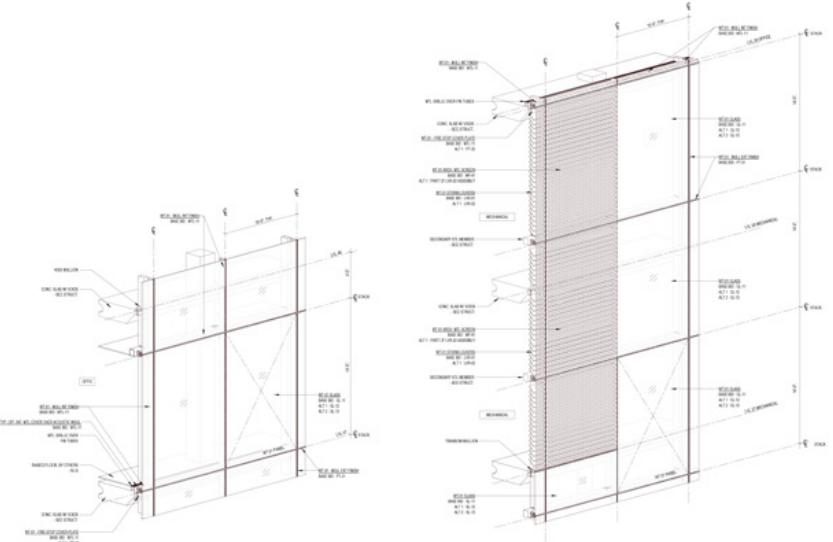
7 AXON-WT-02- SOLID UNITIZED CURTAINWALL @ MECHANICAL BULKHEAD



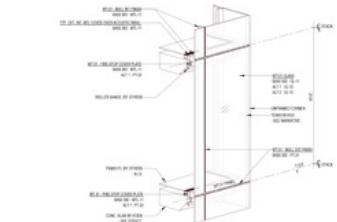
**6 AXON- INT-01- RING BEAM SUPPORTED, PARAPET CONDITION @ MECH. FLOORS.**



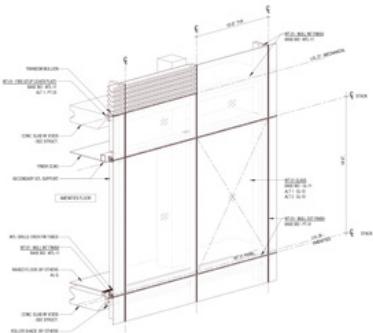
5 AXON - WT-01 - UNFRAMED CORNERS



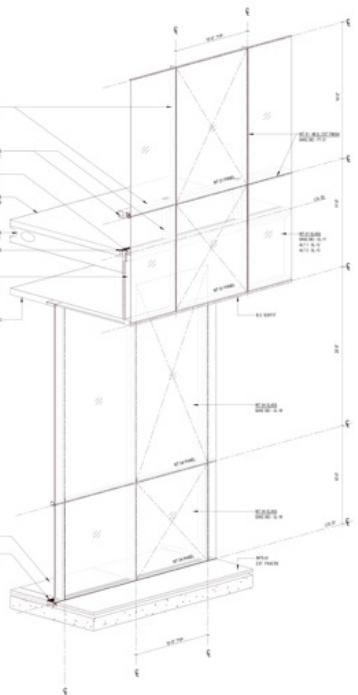
4 AXON - INT-01- 18' FL TO FL, RING BEAM SUPPORTED @ OFFICE FLOORS



5 AXON - WT-01 - UNFRAMED CORNERS



AXON - WT-01- RING BEAM SUPPORTED @ AMENITIES FLOOR

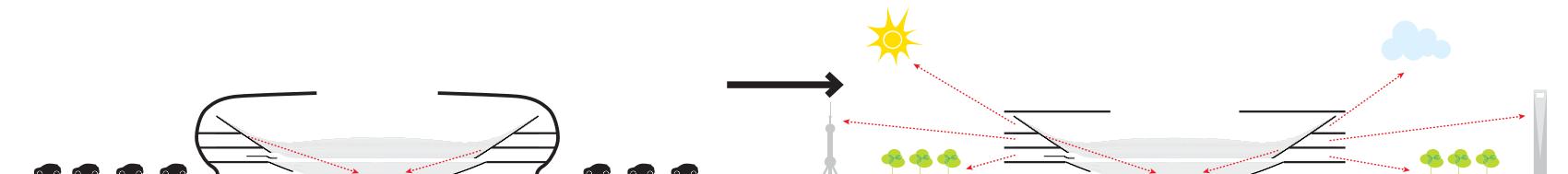


1 AXON - WT-01 18' FL TO FL SOFFIT CONDITION @ LVL 02 OFFICE

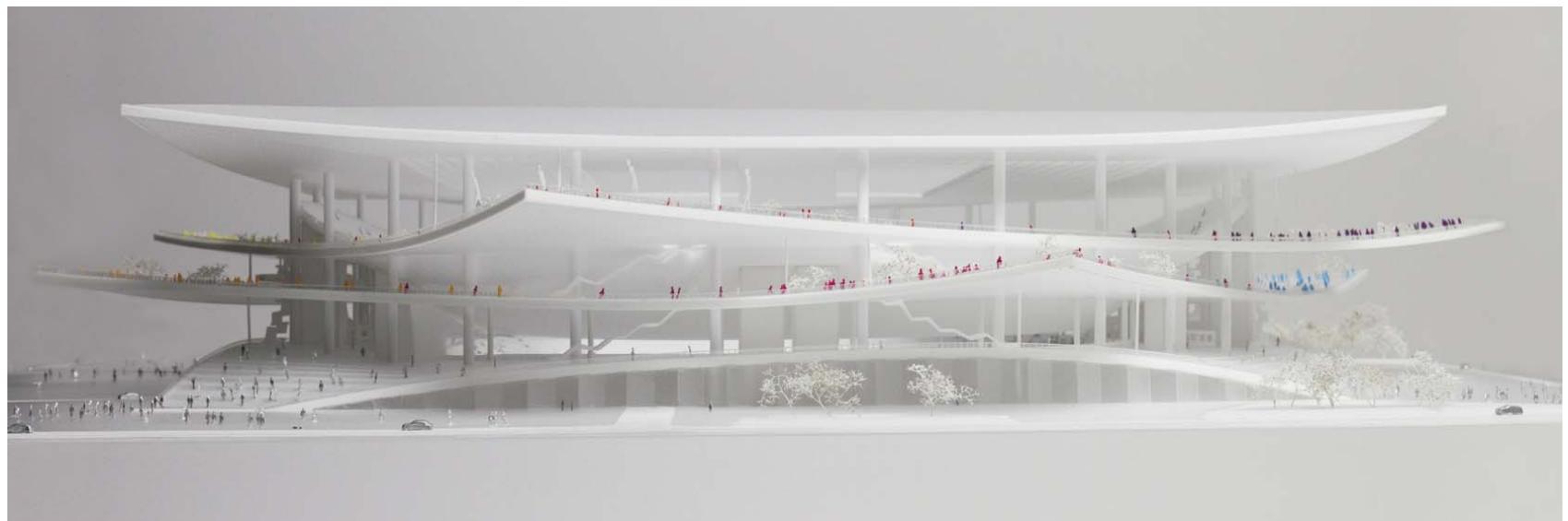
# Competition Stadium in Shanghai

Competition project at BIG NYC. The particularity of this stadium is that the bowl is surrounded by three concourses level defined as a pure square of 112m each side. The middle and upper concourse rotate 30 and 60 degrees respectively. This movement creates a unique set of spatial conditions for each level which create area for outdoor activities and social gatherings. These outdoor terraces will serve as public space. During game days, they will function as extra outdoor spaces to the concourses. During non-game days, they will be accessible without interfering with the security and the maintenance of the stadium facilities.





Diagram



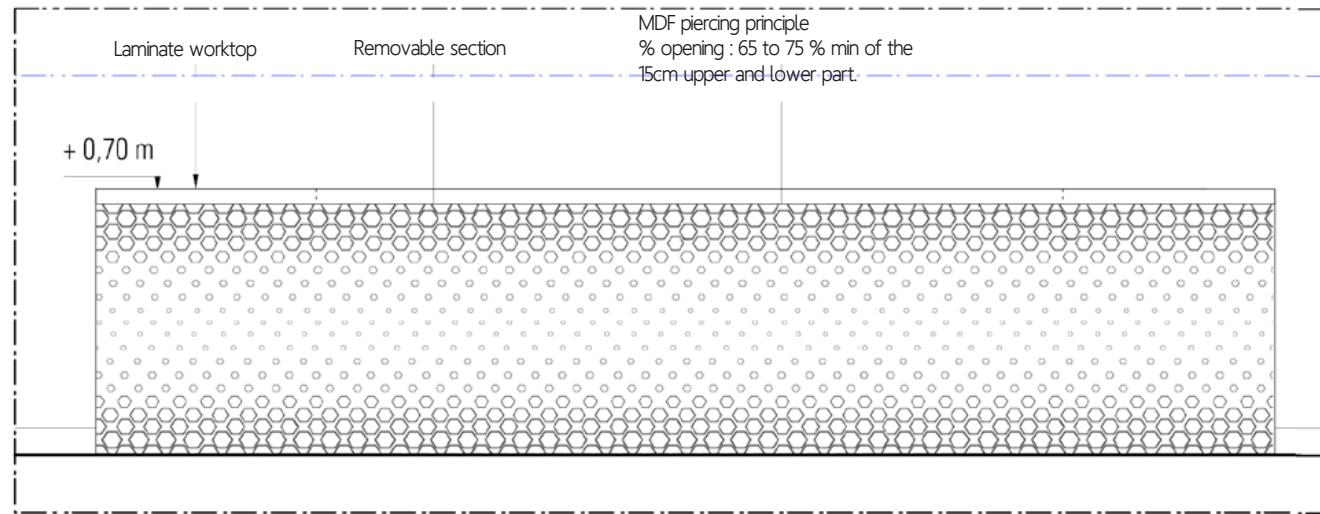
Model elevation

# Construction details

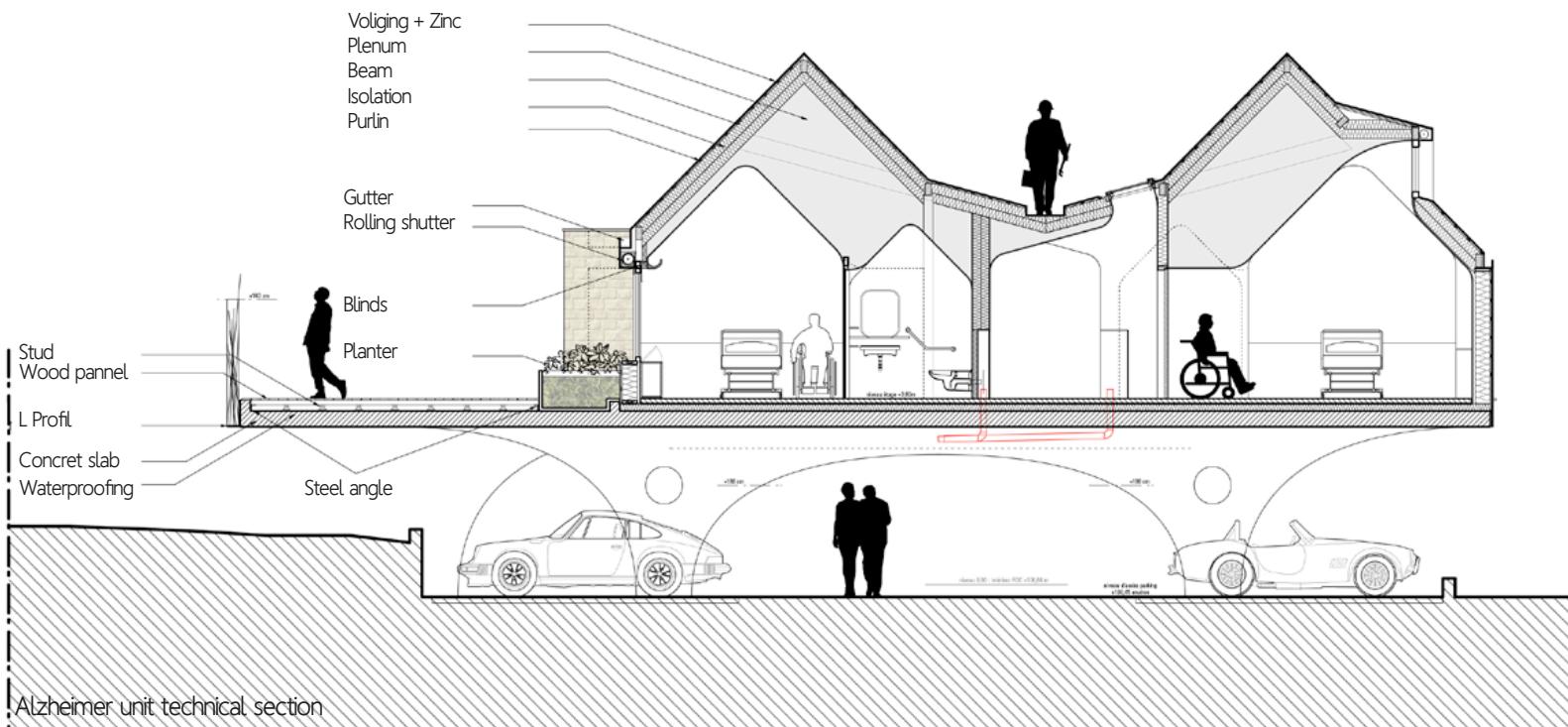
CD drawing for the Alzheimer unit.



Gardrail



Gardrail and radiator cover detail



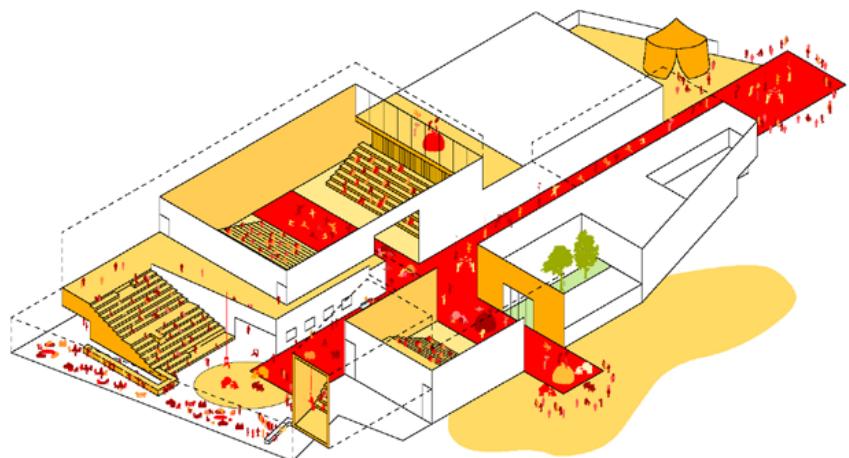
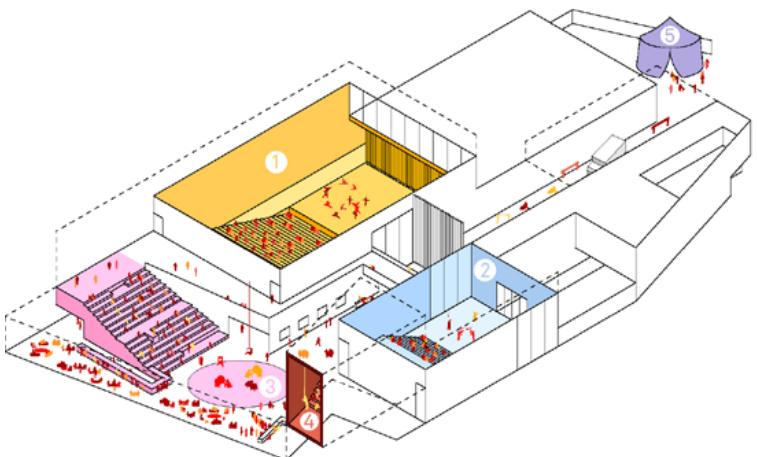
Alzheimer unit technical section

# Competition

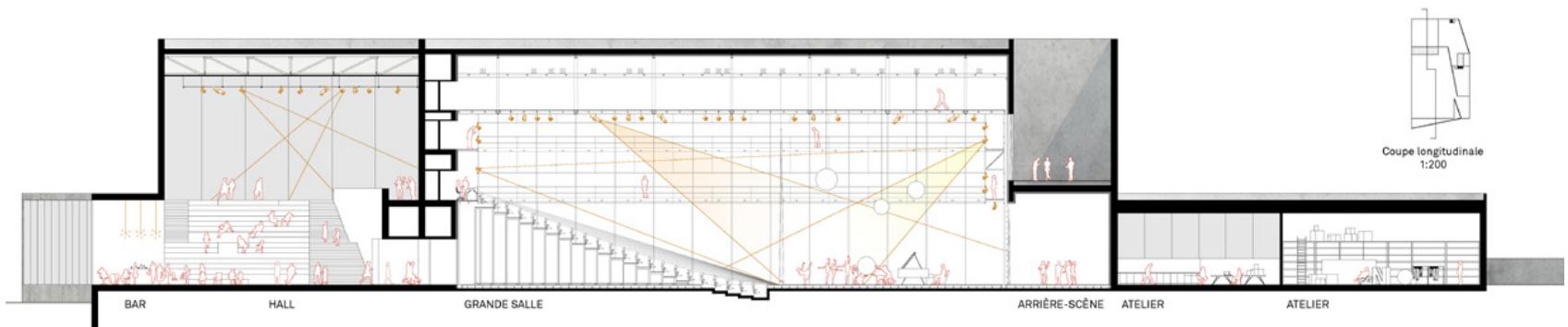
Competition for the new "Maillon" Theater in Strasbourg.

In collaboration with Dominique Coulon & Associates. Seconde place.

Possibility of 5 different scenes



Two perpendicular axes for  
an optimal exploitation



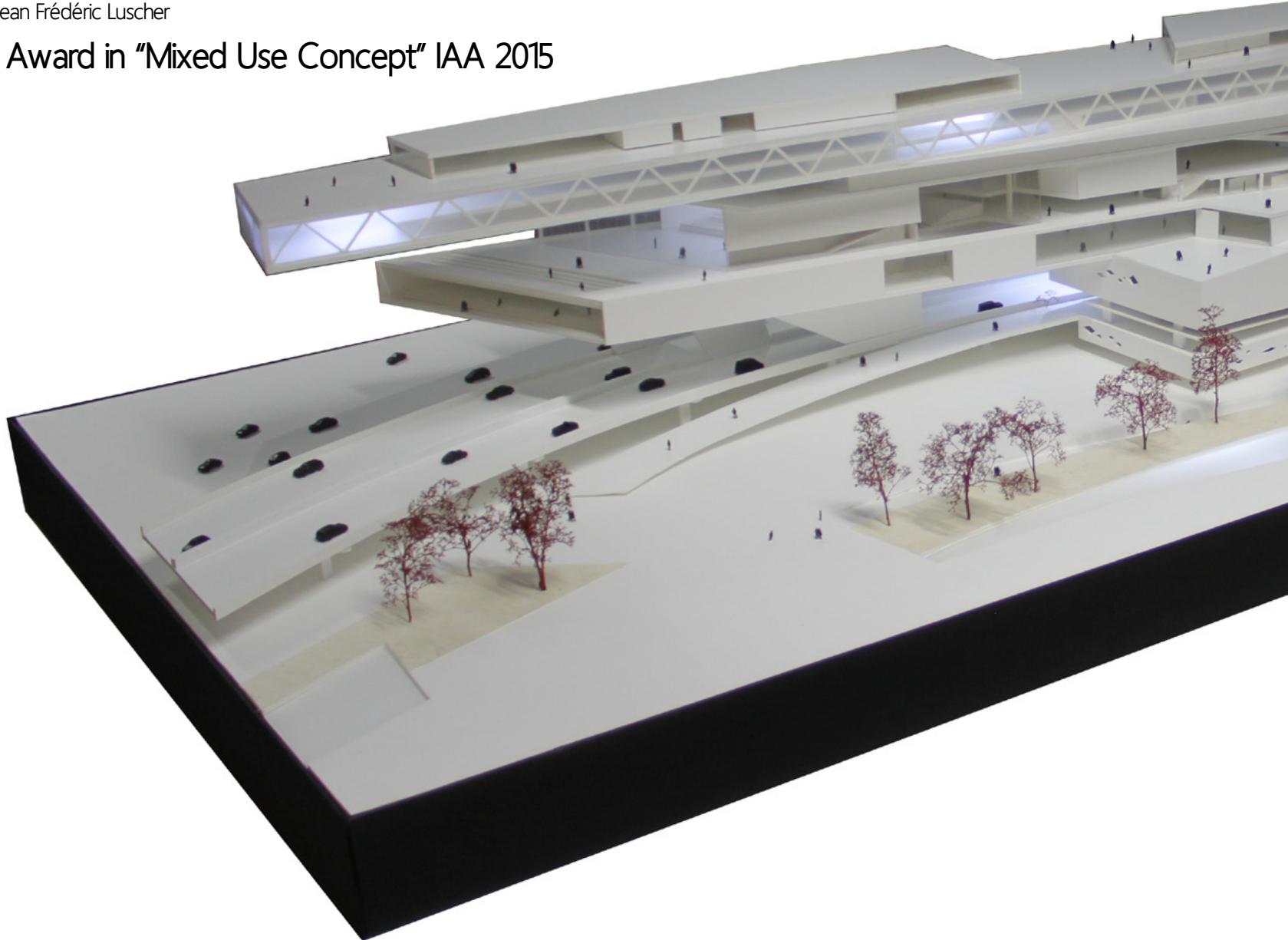
# High-Corridor, Montreal's urban break

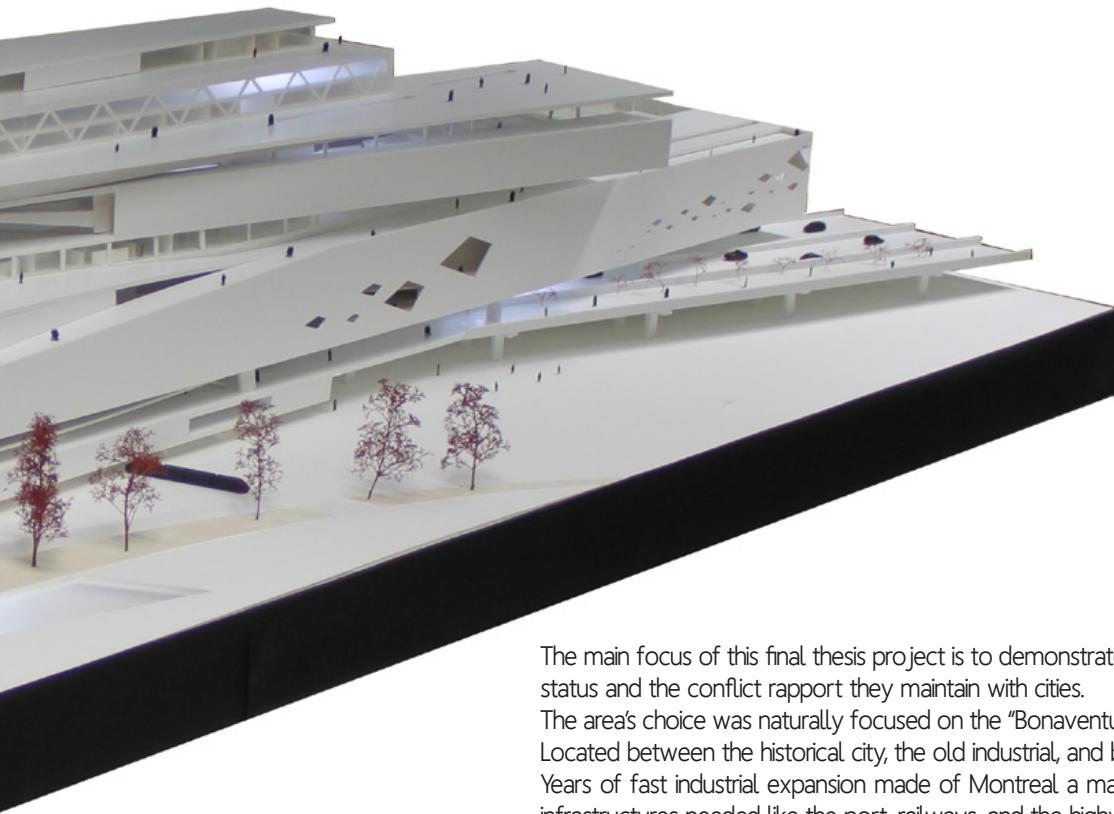
09.2014\_ Master 2 Diploma

Professors: Dominique Coulon & Alexis Meier

Jury : Jean Frédéric Luscher

1 ST Award in "Mixed Use Concept" IAA 2015





The main focus of this final thesis project is to demonstrate that it is possible to change the monofunctional infrastructures' status and the conflict rapport they maintain with cities.

The area's choice was naturally focused on the "Bonaventure's" urban break in Montreal, created by the highway infrastructure. Located between the historical city, the old industrial, and business districts, this area is a veritable city entrance.

Years of fast industrial expansion made of Montreal a major city in North America. This industrialisation brought the large infrastructures needed like the port, railways, and the highway which created a break between the historical center and the industrial district of Griffintown, which is now in rehabilitation. This infrastructure consumes strategic areas in the city without exploiting existing potential acting as a deterrent for pedestrians and consequently damaging the urban qualities of the area. How do we leverage the existing infrastructure? How to recreate the city reappropriating infrastructures as an urban structure?

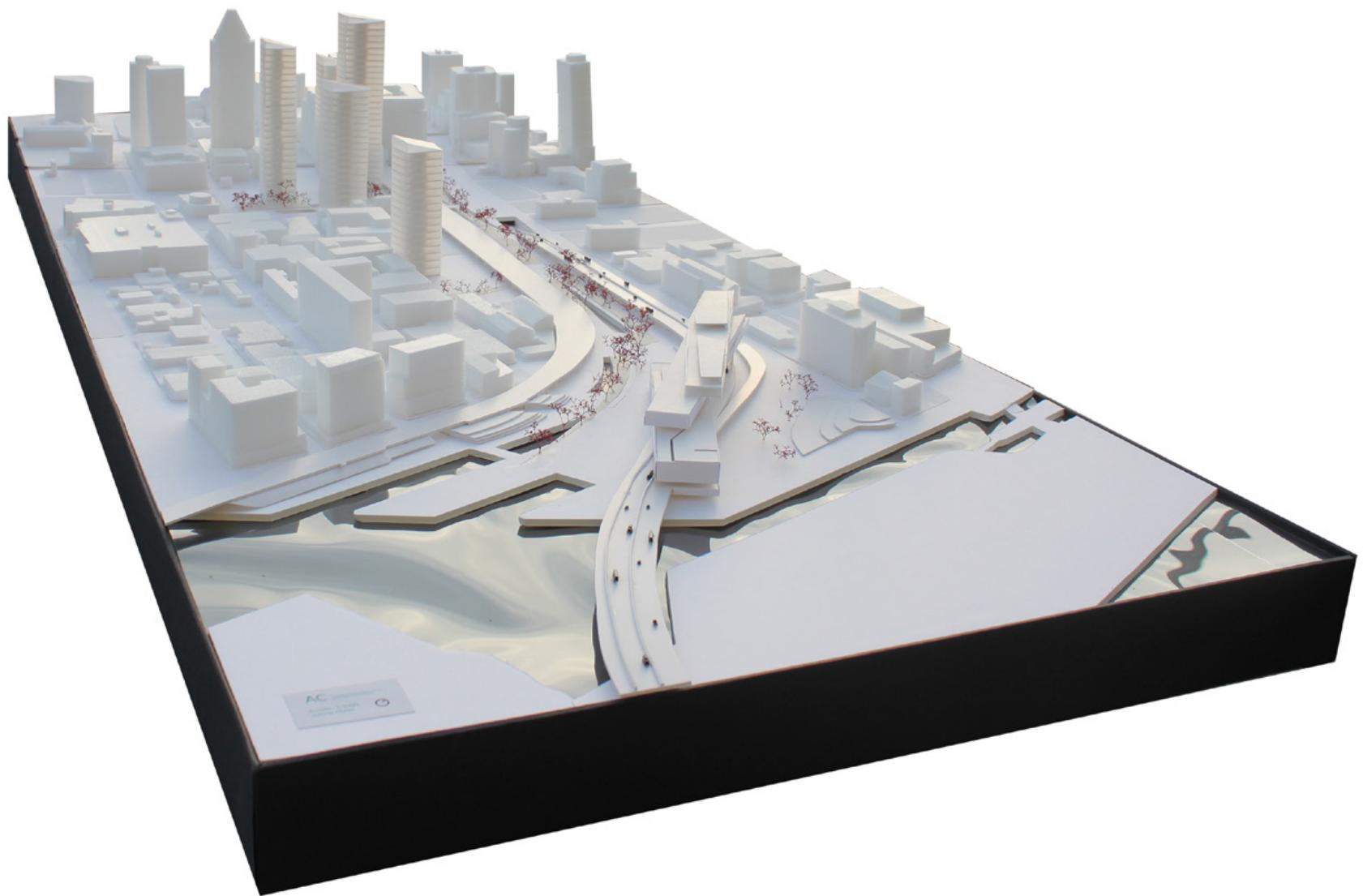
The goal is to fix the urban break by re-creating connections between the city center and surrounding neighborhoods. The project takes over the Bonaventure Highway and takes place at the corner of two pedestrian flows. It's a mixed use cultural center, which can cope with the heavy motorways' infrastructure. The building is designed to have a minimum footprint on the ground; to keep a free space and which can be crossed under the highway.

A second ground floor takes place over the highway and works like a public space lobby which gives access to the other programmatic spaces. The project is defined by five entities: the museum, the primary school, the swimming-pool and gym center, urban agriculture and the public space platform gathering bar, restaurant, a theater and a library. The five entities rub together and intermingle to create interaction between them.

The project is meant to be a meeting point for the population of the neighborhoods with public spaces and walkways they can utilize. Therefore, the project is placed above the highway to make the best use of this lost space. This way it creates a new interaction between inhabitants and the infrastructure.



Master Plan



Model 1:1000<sup>e</sup>



High-Corridor, view from the highway

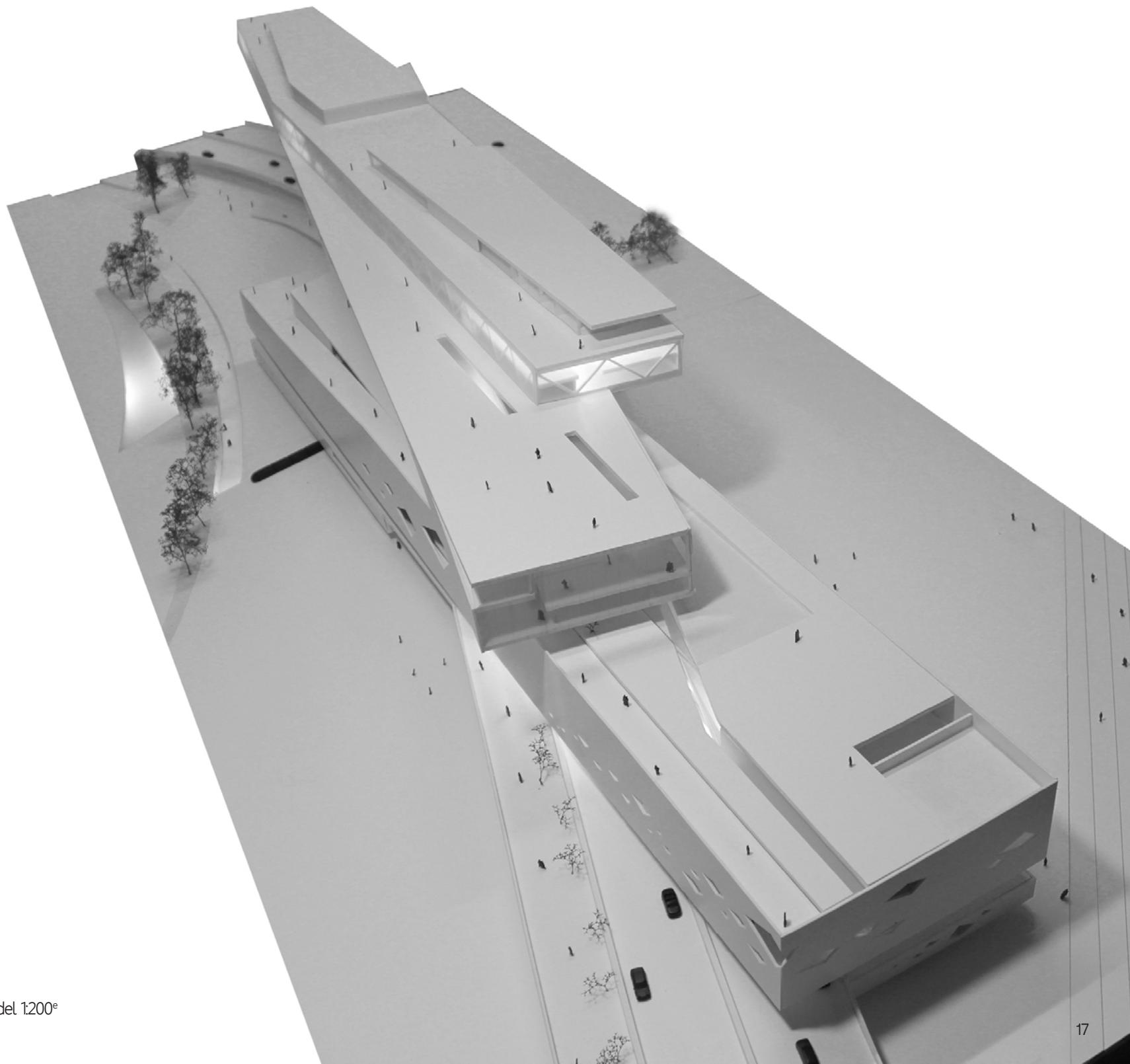


High-Corridor, view from the Museum

Inside view from the lobby



Axonometry

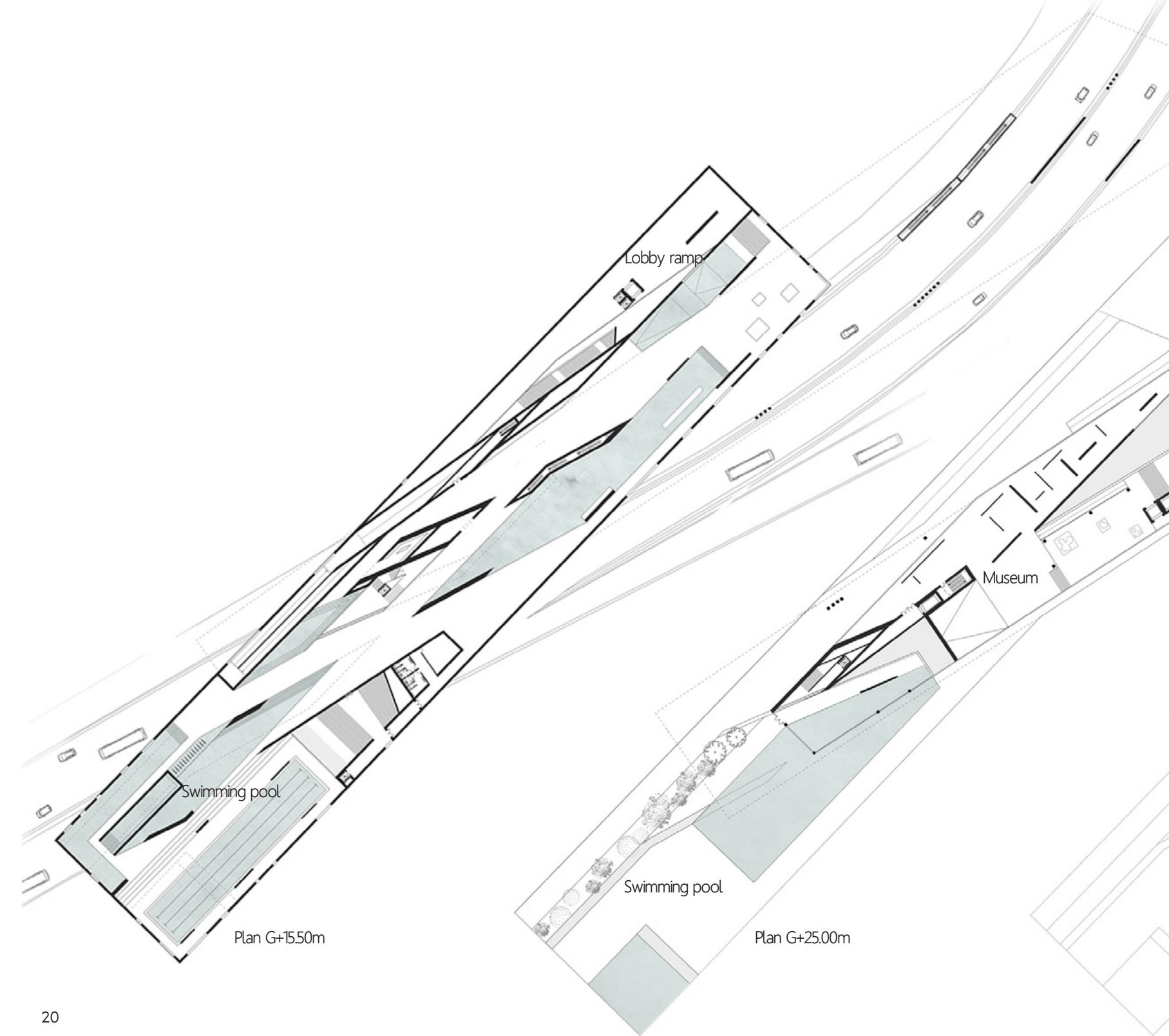


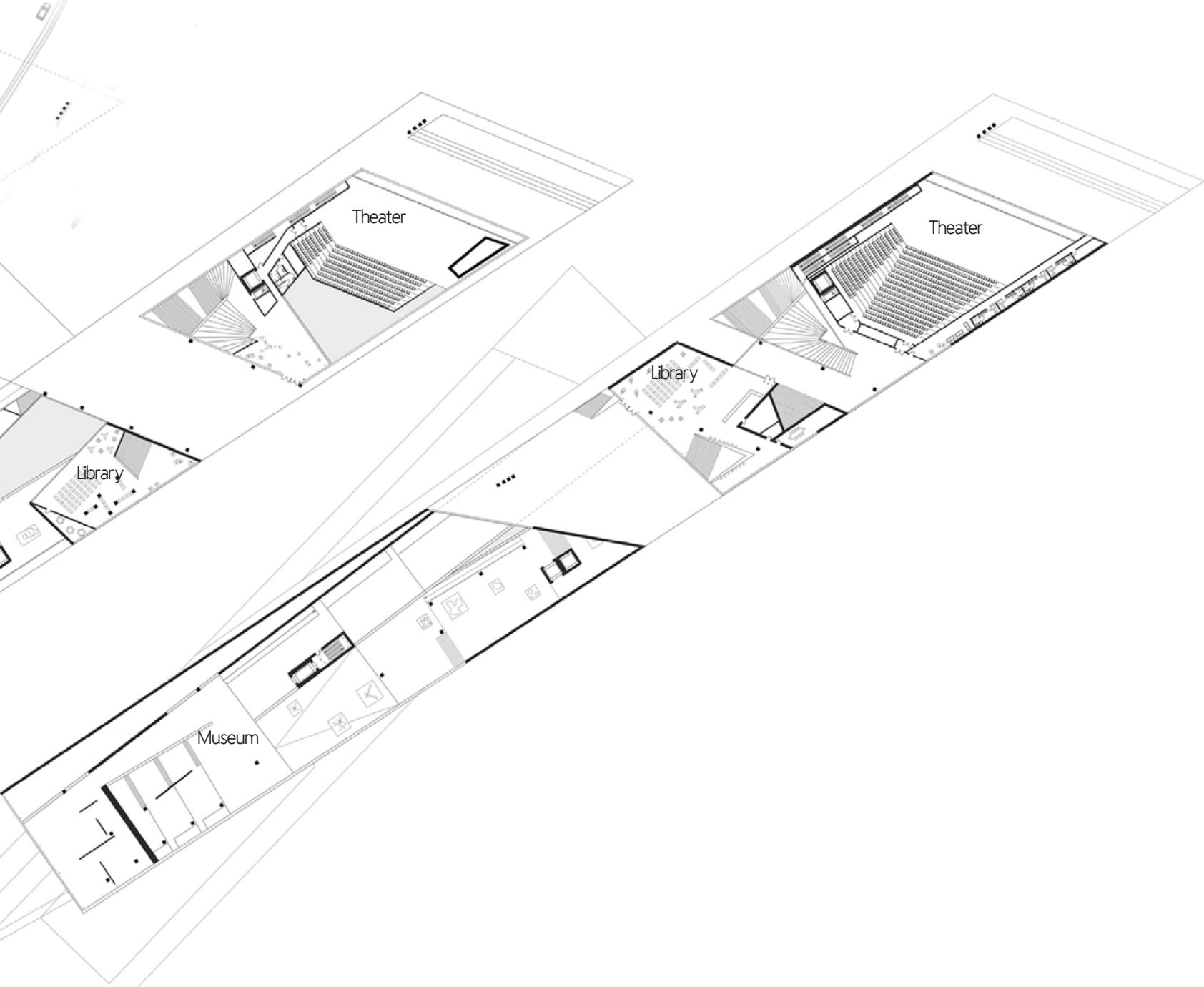
Model 1:200<sup>e</sup>





Model 1:200<sup>e</sup>

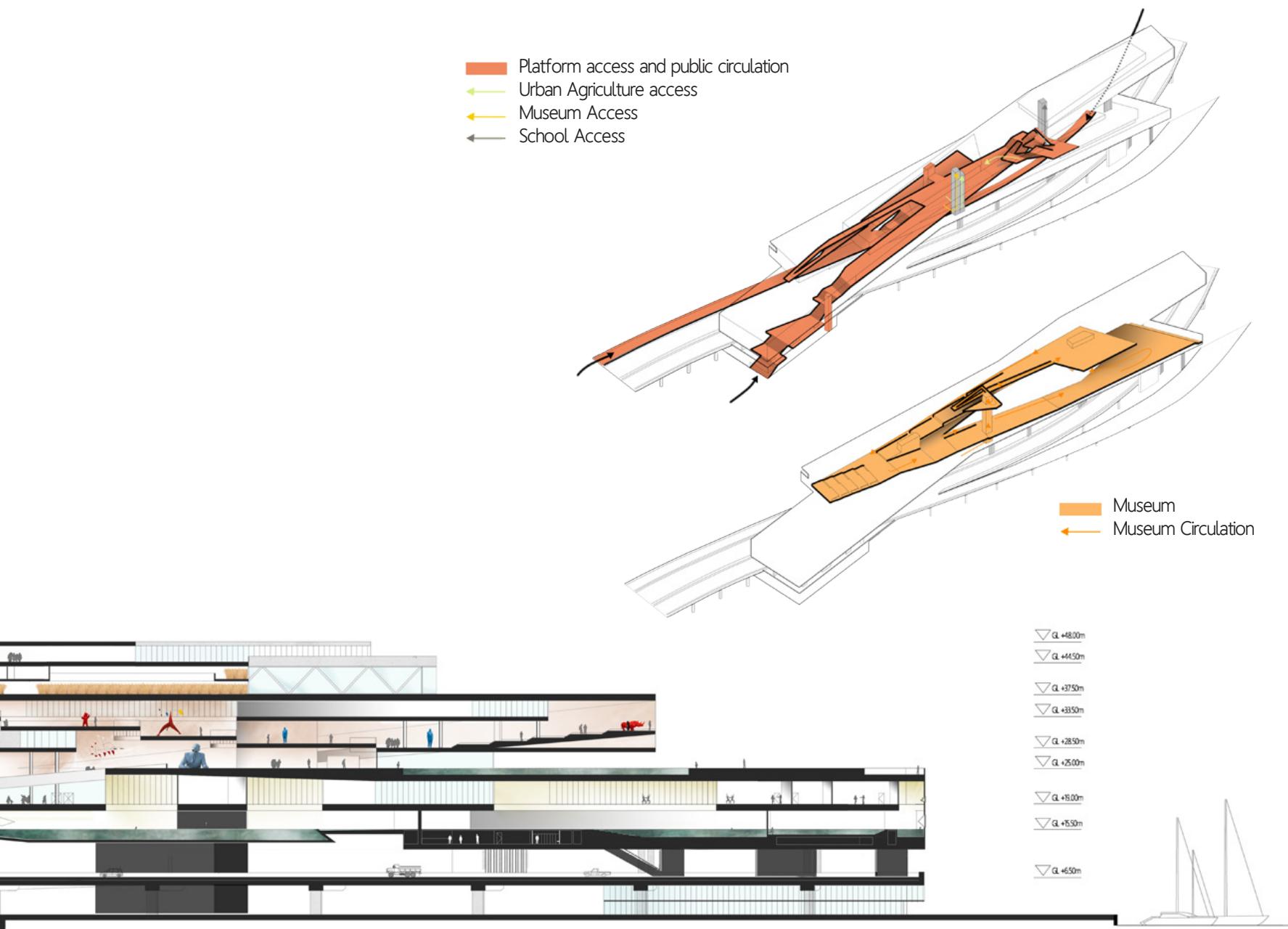


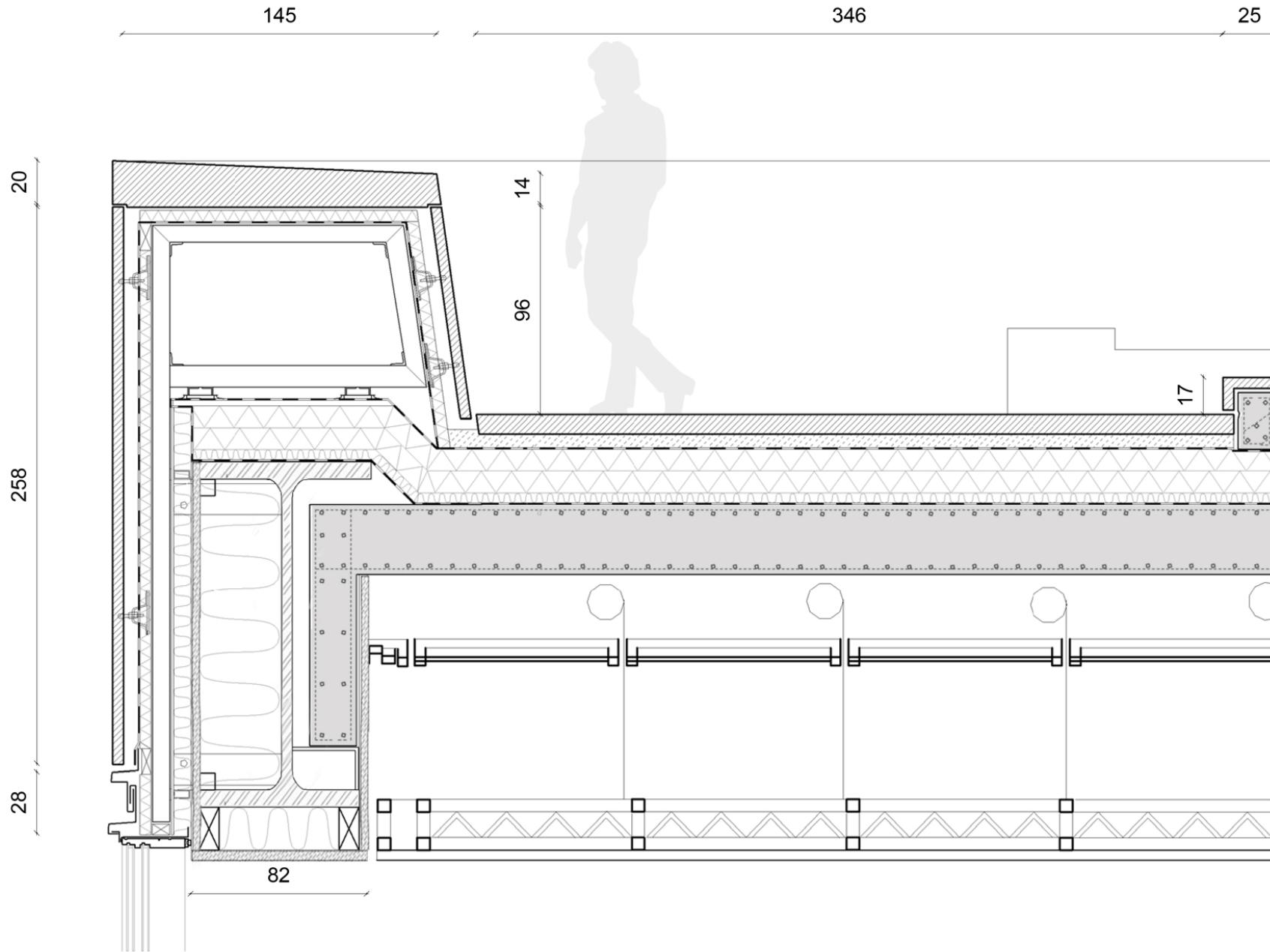


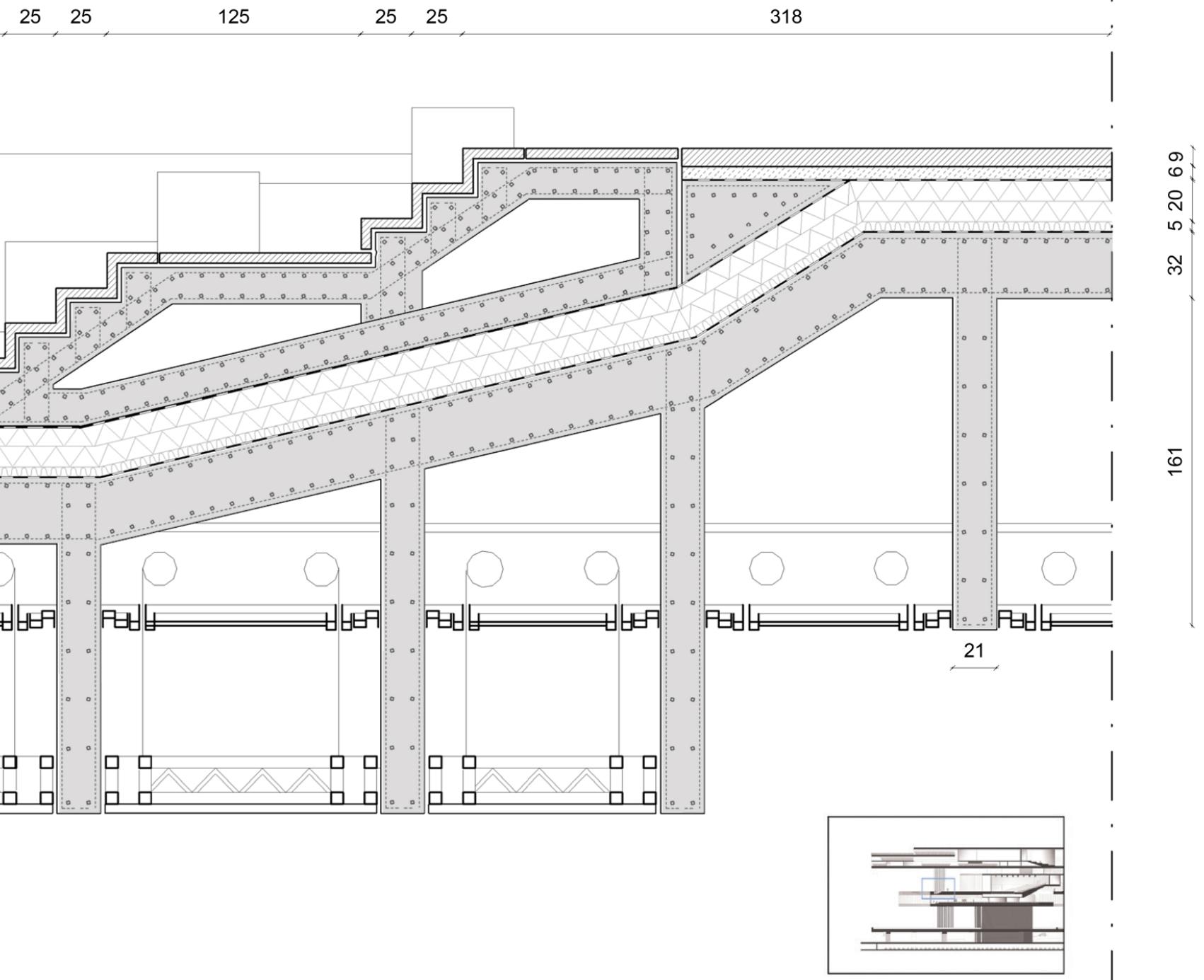
Plan G+28.50m









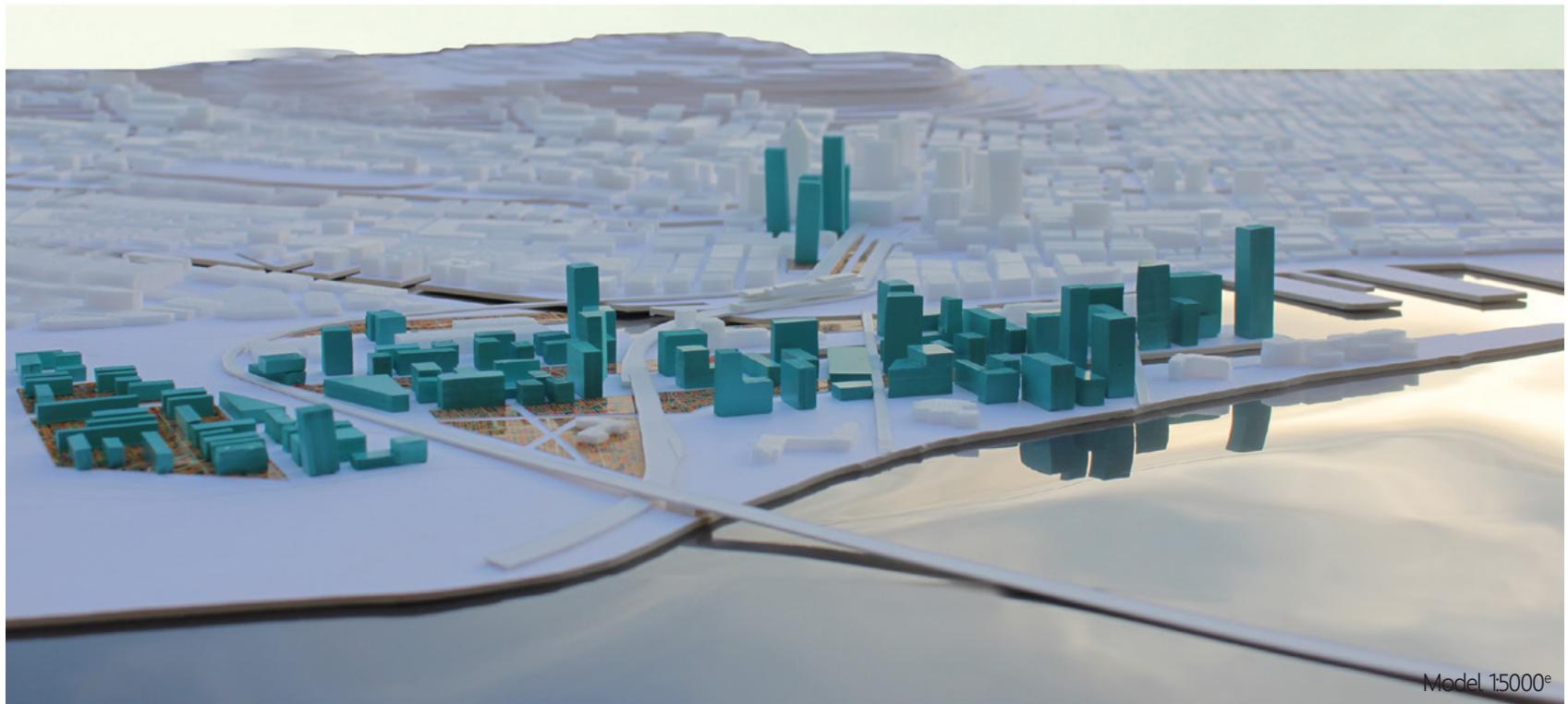


Detail Section



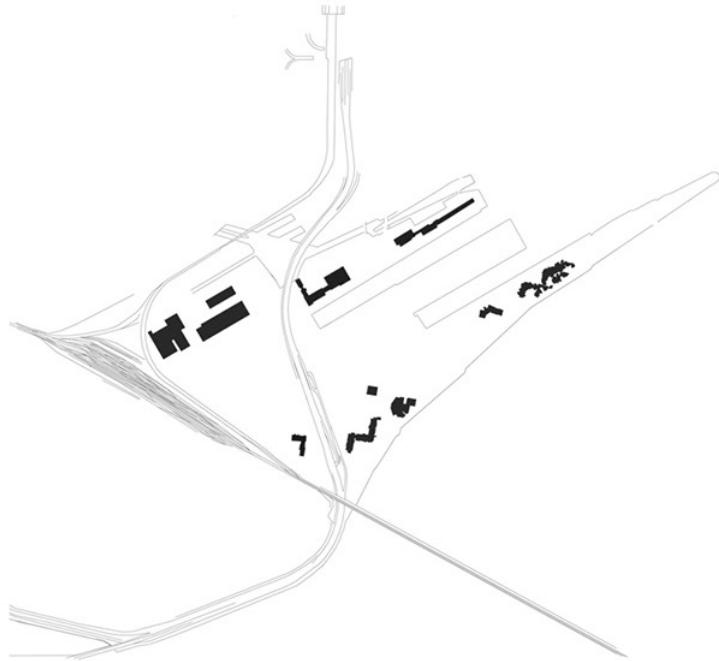
# High-Corridor, Urban plan

Densification of the "Cité du Havre", who draw a new skyline on the riverside.  
The " Cité du havre" is an old industrial and port district fallow with a perfect location between the "Lachine" canal and the "St-Laurent " river.  
The urban Plan propose a mixed program and favors pedestrian and public spaces.

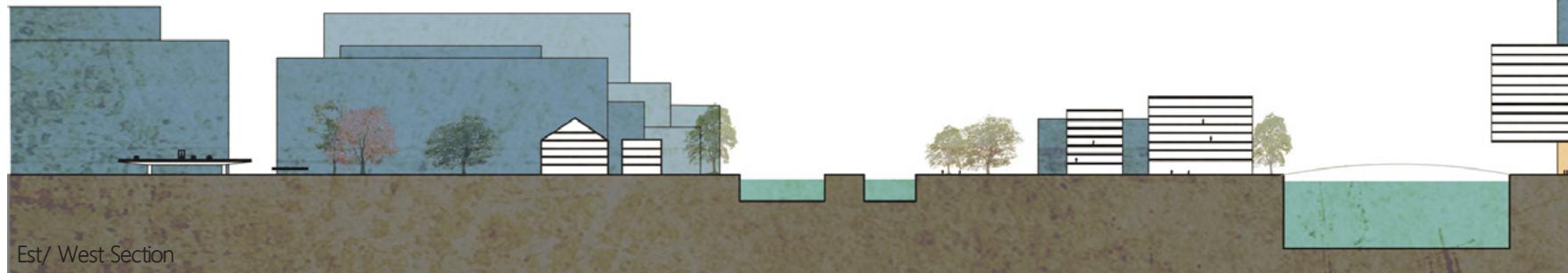




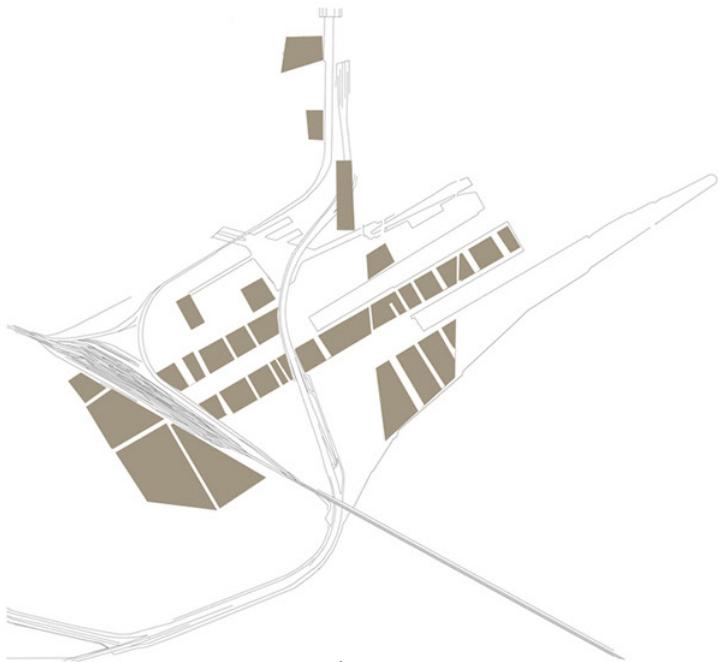
Rail way and Highway



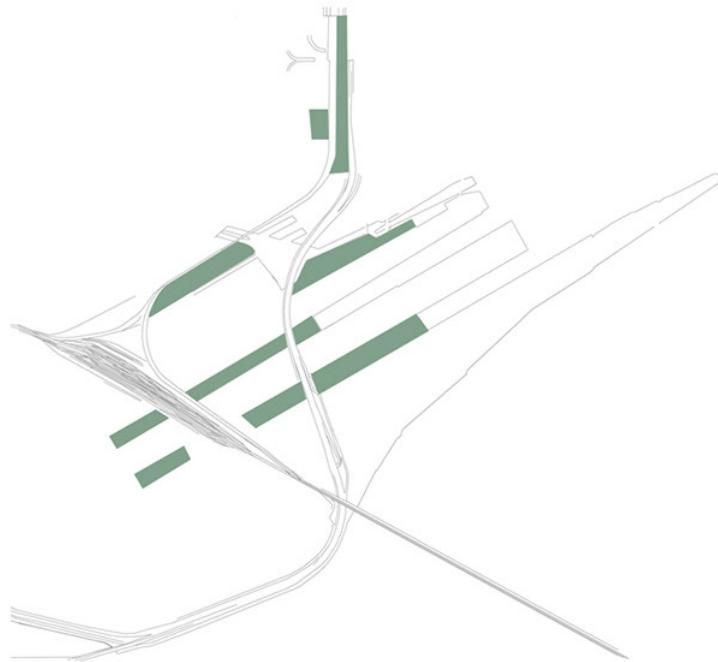
Historical buildings



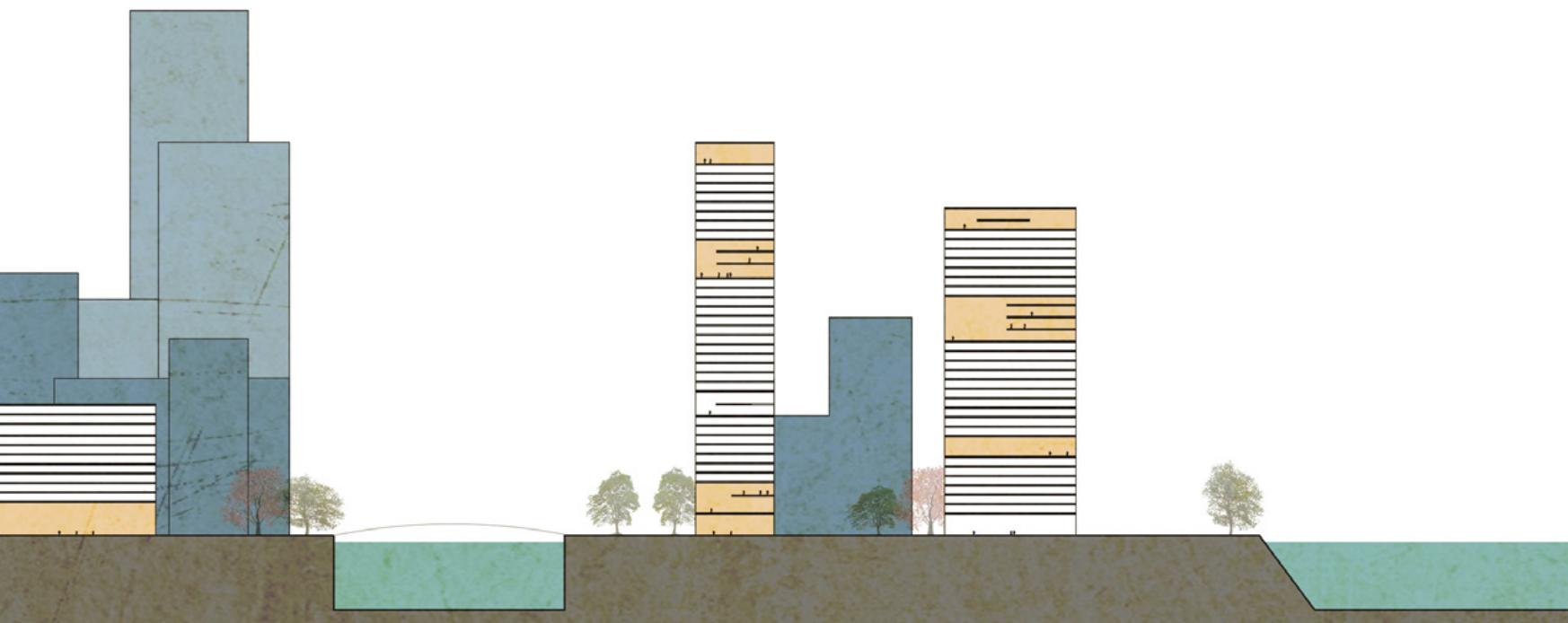
Est/ West Section



Built area

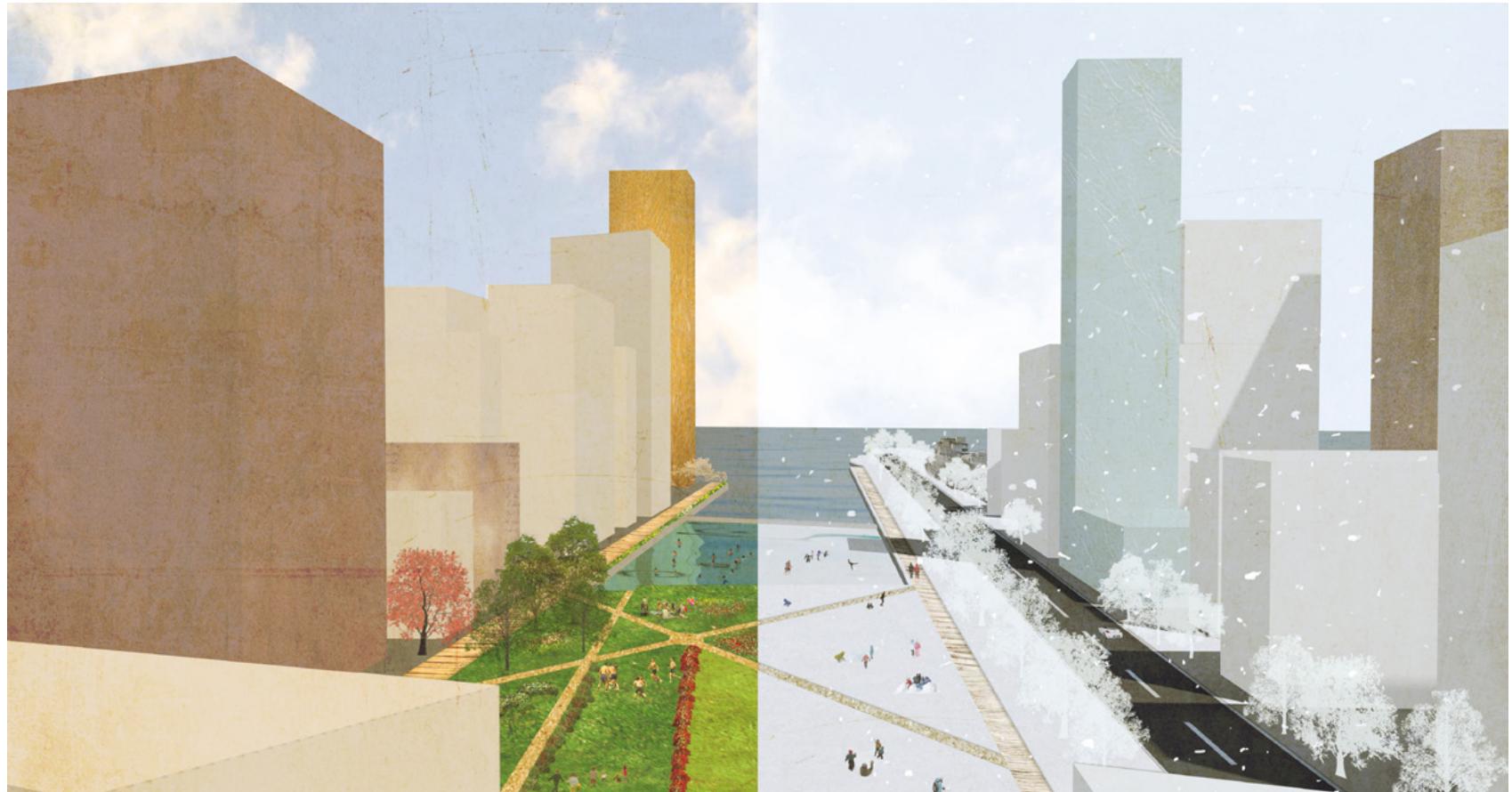


Vegetation area





View on the Lachine Canal



View toward the St-Laurent River

Winter

# Architecture and complexity

## Basel

01.2013\_ Master 2

Professors: Dominique Coulon, Simon Frommenwiler, Emmanuelle Rombach

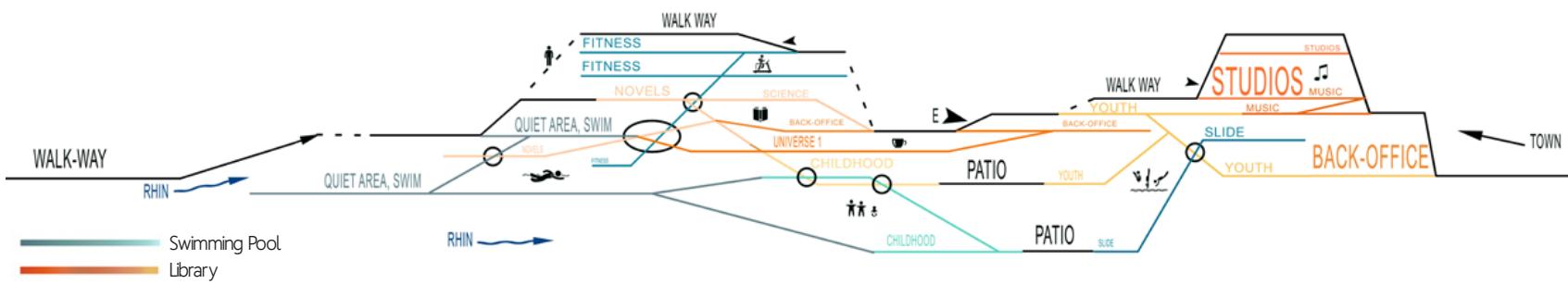
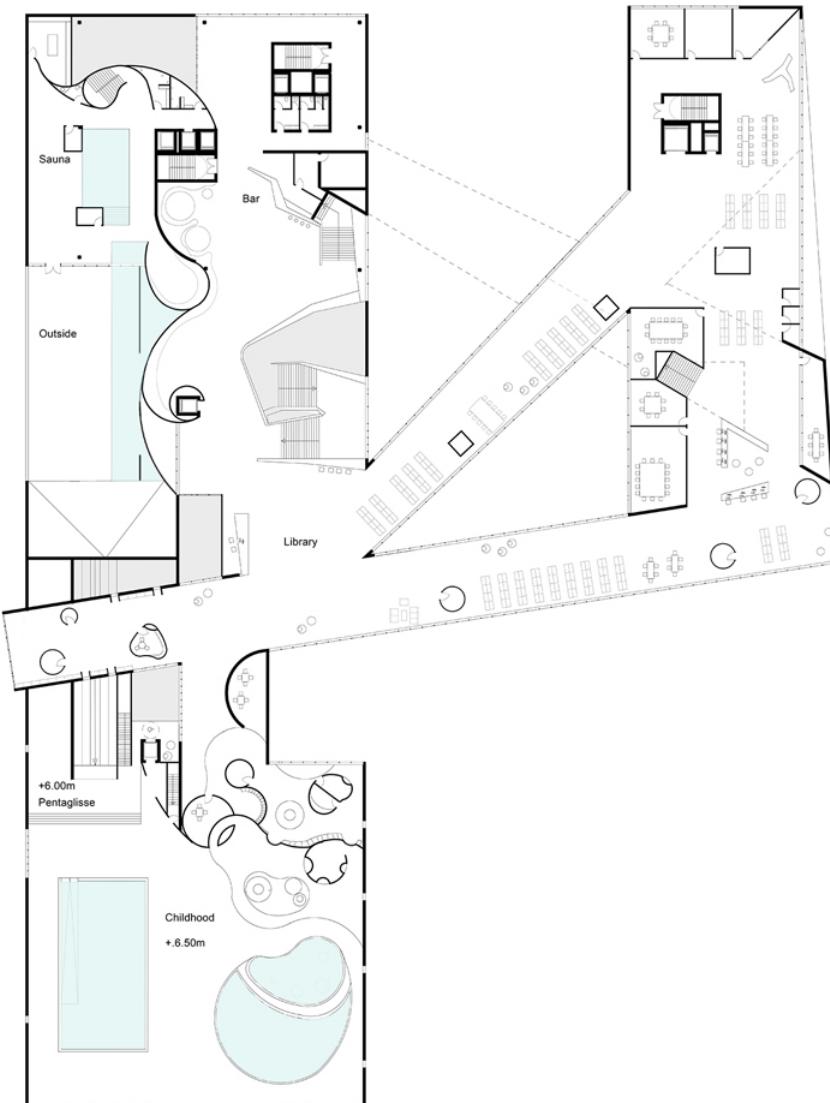
The project takes place on the peninsula of Rheinländer hafen. The site is characterized by the confluence of three countries: Switzerland, Germany and France and is a major issue for the close cities located nearby (Basel, Weil Am Rhein and Huningue). This harbor area is partially occupied by storage buildings and railways. It brings many interrogations about its urban renewal.

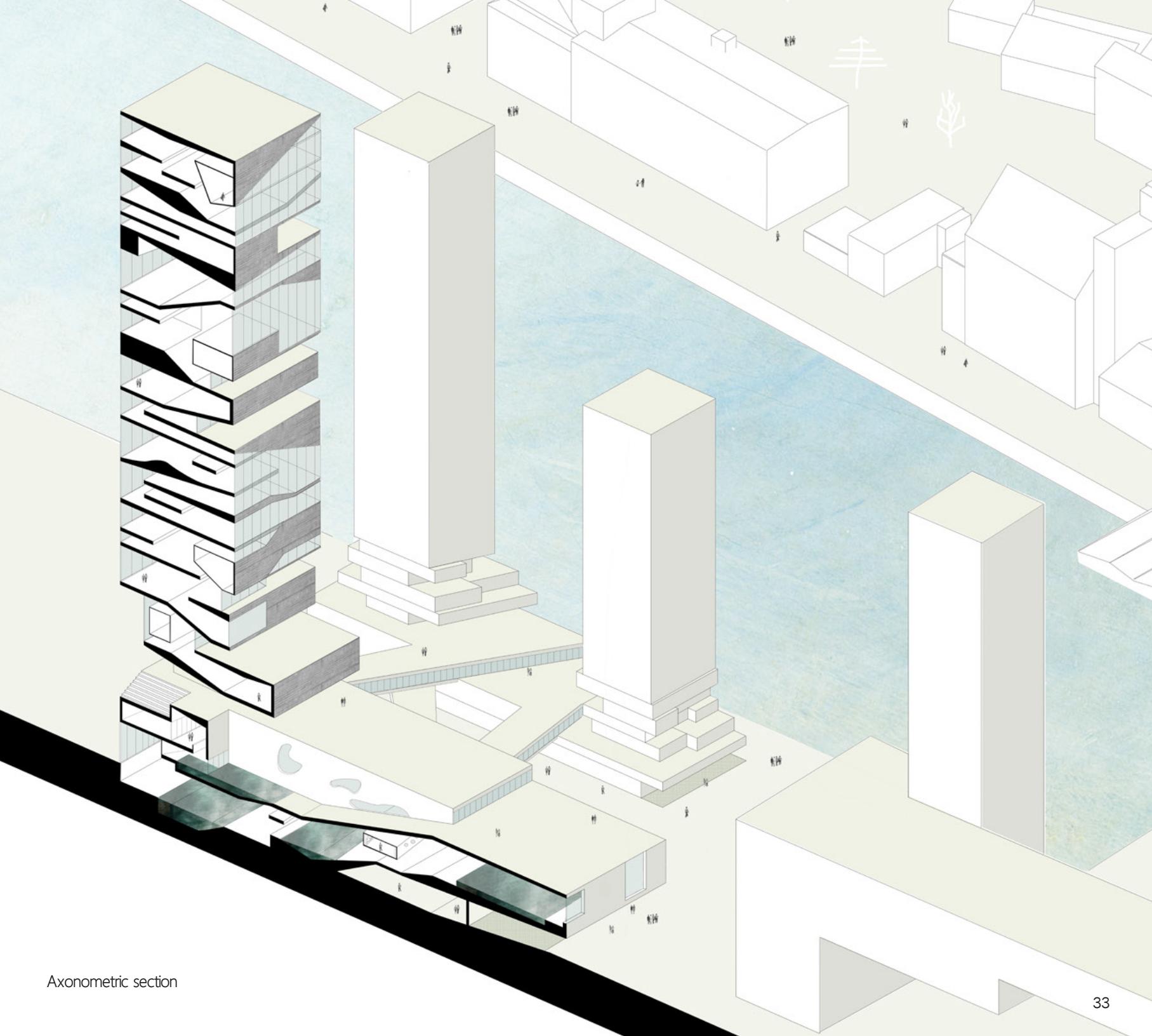
The project has two different aspects, urban strategy with a compact and vertical layout, and the conception of a mixed used public building gathering a multimedia library, swimming pool and public forum.

The main idea of this project is to split the different universes of the multimedia library and to associate them with the swimming pool and other equipments. For example, the childhood department of the library is directly linked to the kids swimming playground. While being visually linked, the programs have to be compartmentalised because of the different atmospheres in each one, loud in the swimming pool and calm in the library.









Axonometric section

# Bigness

01.2013\_ Master 2 ENSAS Strasbourg

Professors: Emmanuelle Rombach

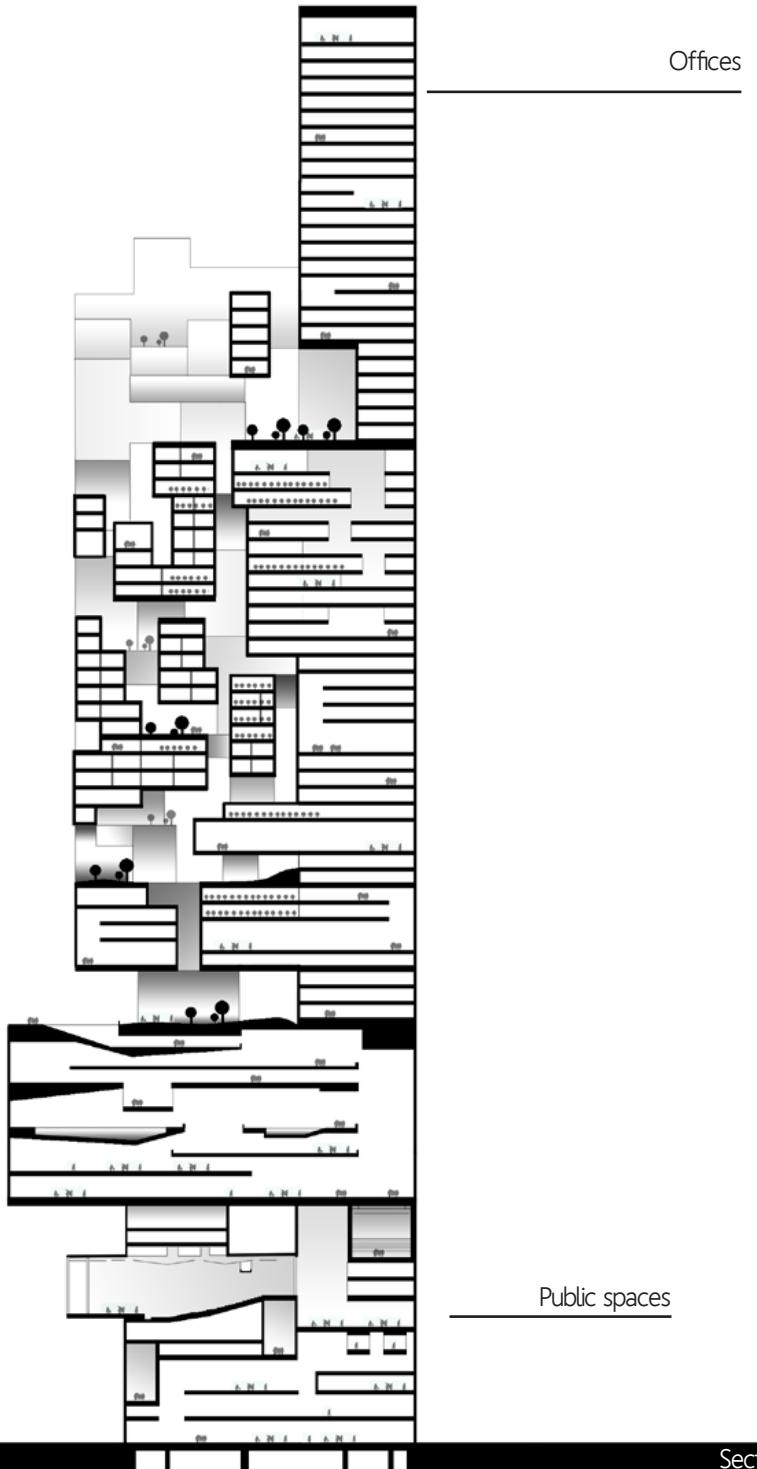
In the master class "architecture and complexity" we had some theoretical lessons which included the study of "Delirious New-York". In this case, we had to express our vision of the "Bigness" in a tower with programmatic constraints of 25% public space, 25% offices, 25% residential and 25% urban agriculture.

The entire building is composed of 10\*10m units. Its sustainable mixed use structure arose as a new model for flexible development. The residential and the urban agriculture units are more fragmented to create views, light and gardens.

The public space takes place at the base with some terraces and gardens.

Urban Agriculture and residential

0 5m 10m 20m 50m



Section

# Parametric experimentation

Parametric 3d modeling with Rhinoceros and Grasshopper.



Parametric bridge, T-Splines and rotation



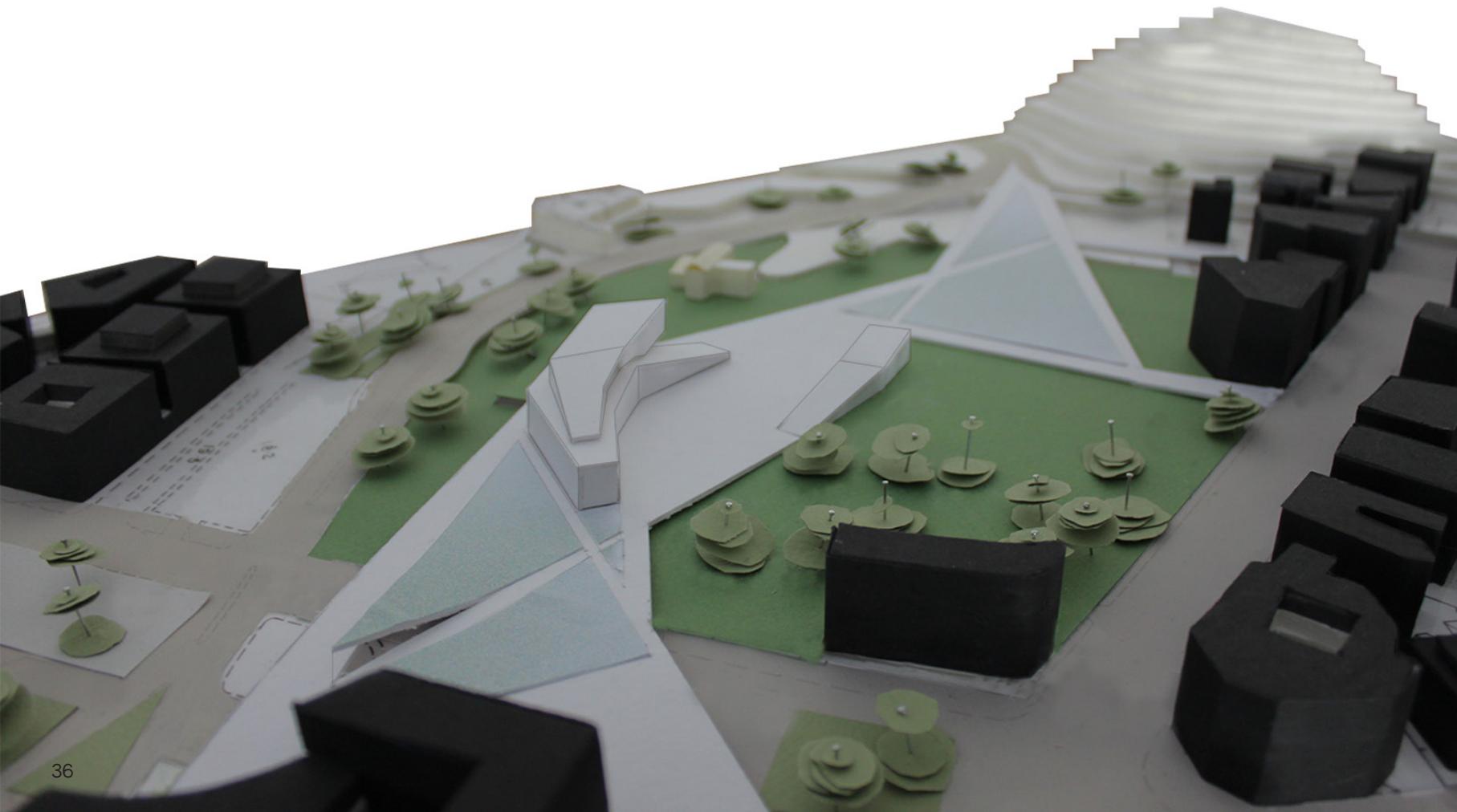
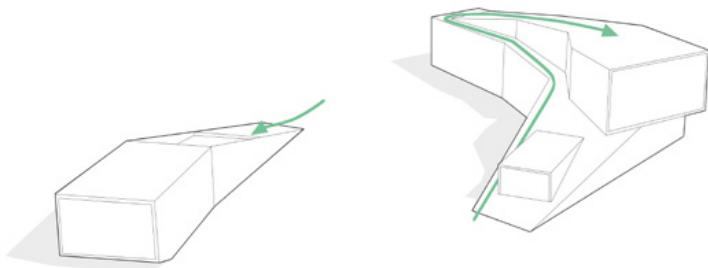
Hexagonal Voronoi shell

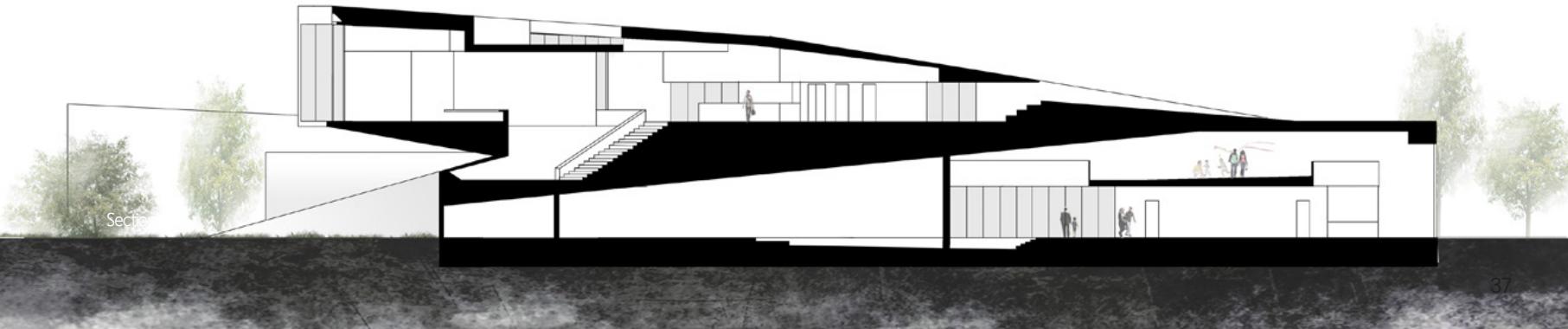
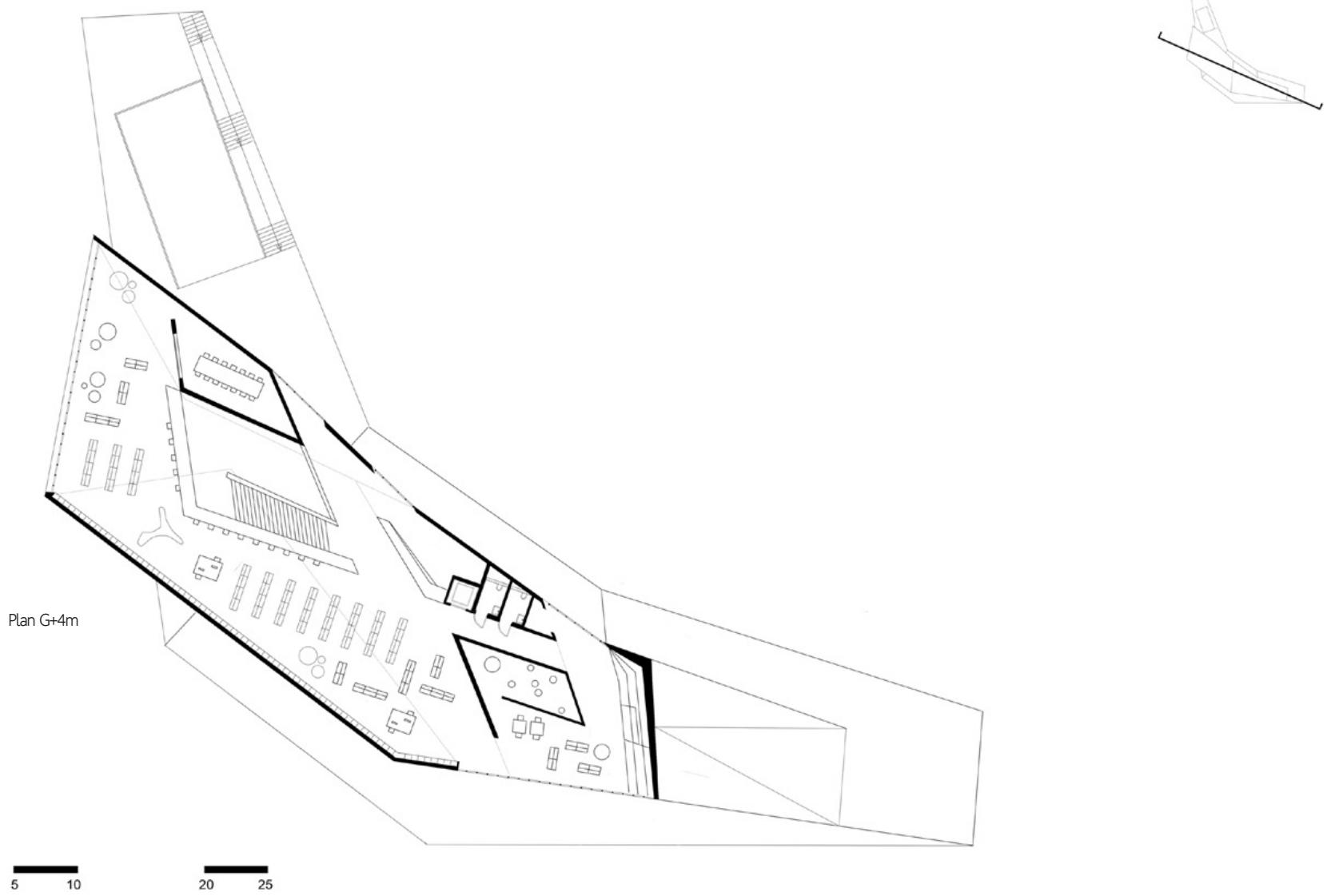
# Piazzale Clodio

## Roma

06.2012\_ Master 1 University of Sapienza Roma

The "piazzale Clodio" is a square at the foot of the Mount Mario, one of the seven mount in Rome. But there is no real relationship between the mount, its vegetation and the square. So this project answers to that problematic with a park which is extend to the square and comes over the road, we also have a continuous pedestrian way from the boulevard to the





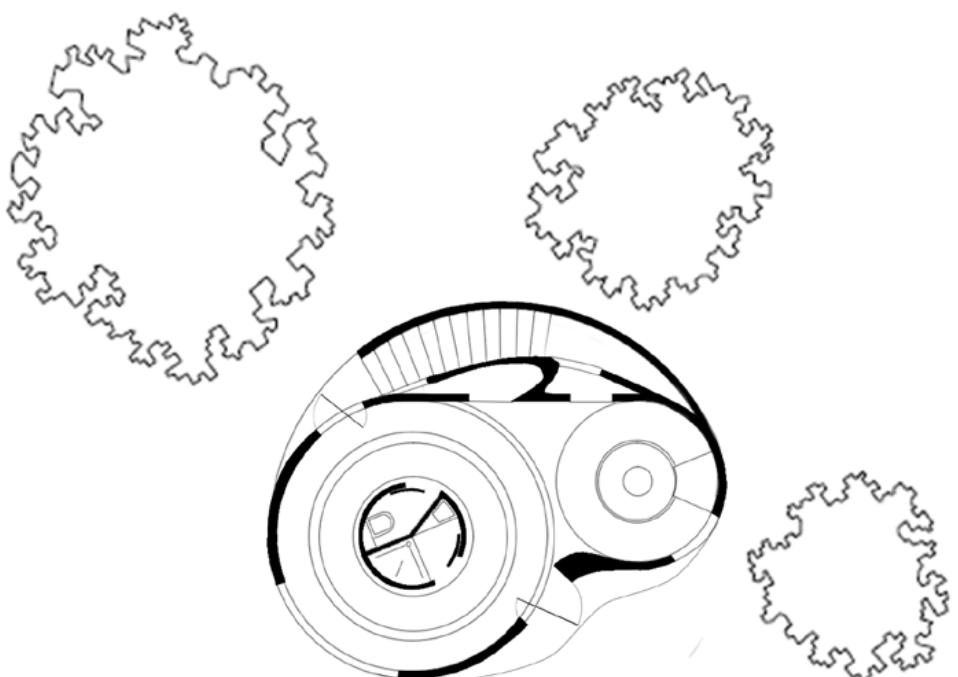
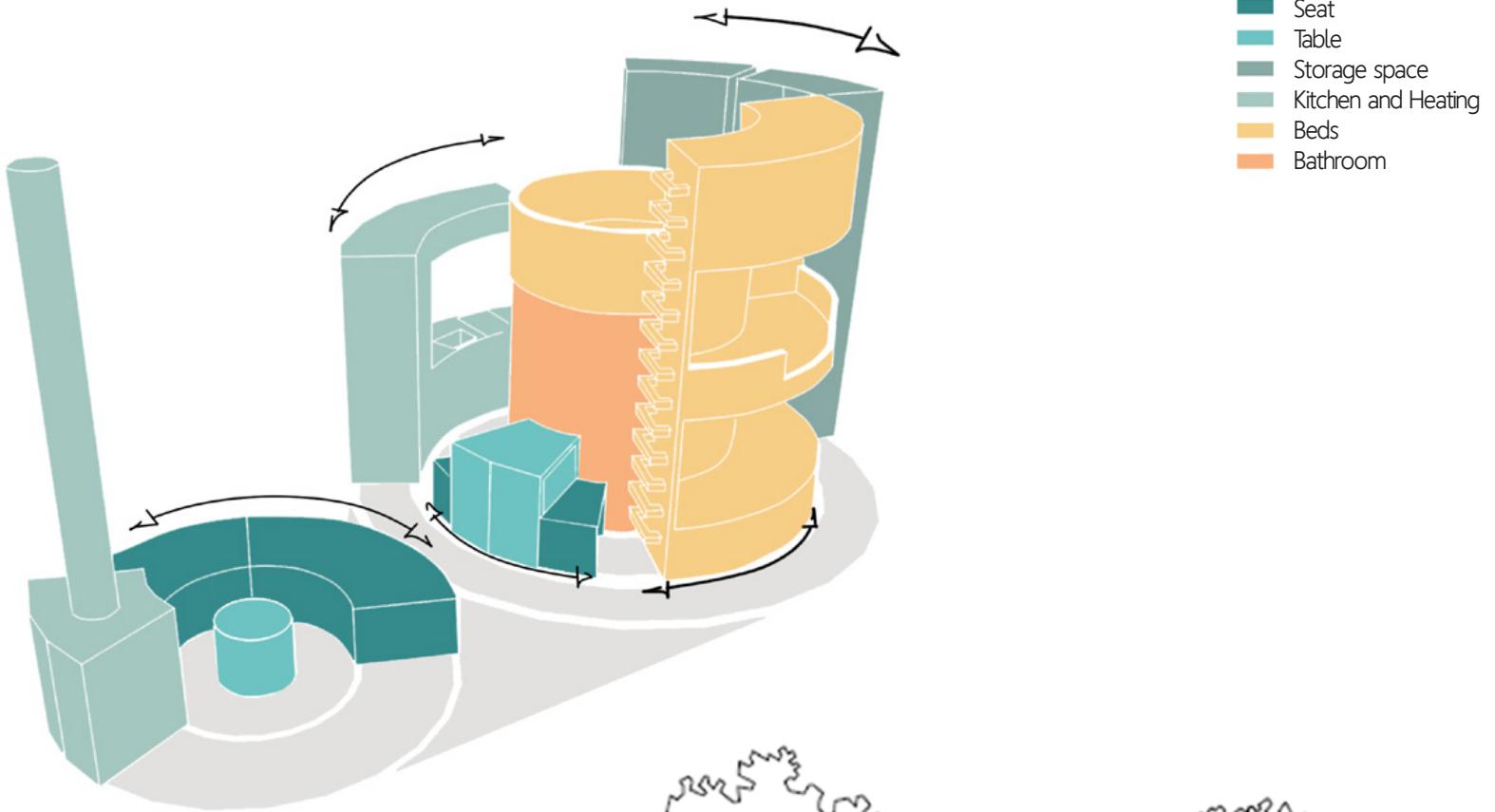


## LLH/ Light Leisure Housing Competition 2ND PLACE

The tourism development agency in Alsace asked to create a Light Leisure House, with a regional identity and no more than 35m<sup>2</sup>.

The concept was to get inspiration from the trunk of a tree. In this principle, a volume containing a bathroom represents the wood's heart and furniture come encircle it like wood rings.

These furniture are modular in way that the space can be adapted according to the desires of each one. And we can gain more space when they are all put aside.



## REFERENCES

Bjarke Ingels Group NYC :

- Doug Stechschulte : Associate / project Leader  
[ds@big.dk](mailto:ds@big.dk)  
Cell: +1 347 558 5290

Master Professor :

- Simon Frommenwiler : HHF Partner/ Basel  
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