

Transforming buildings by design strategies

The exploration of design strategies that can be used to transform an existing building by splitting it into smaller segments, transforming a theater and library building into a live/work area

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Name teachers: Lidwine Spoormans, Ana Pereira Roders and Elina Karanastasi

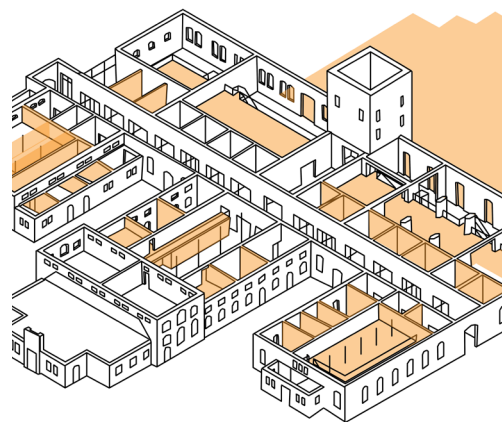
Studio: Resourceful Housing- adapting 20c Heritage

Studio code: AR3AH105

01

RESEARCH

Problem statement
Research question
Methods
Case studies
Classification
Comparison
Principles and strategies



02

DESIGN BY THE STRATEGIES

Site
Skin
Structure
Spaceplan
Services



03

DESIGN FOR BUILDING QUALITIES

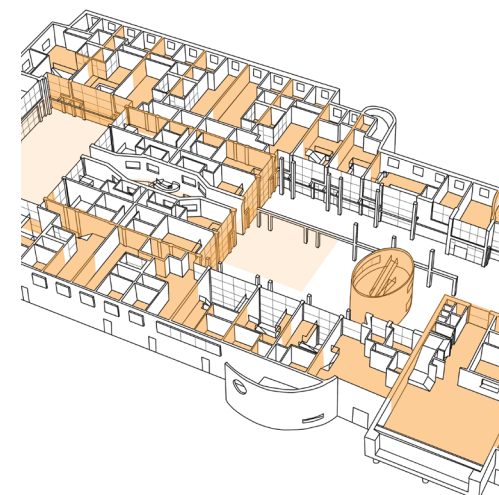
Public/private
Sense of location
Social safety
Open floor plan
Take light into account
Interior insulation
Climate ceiling
Materialisation details



04

CONCLUSION

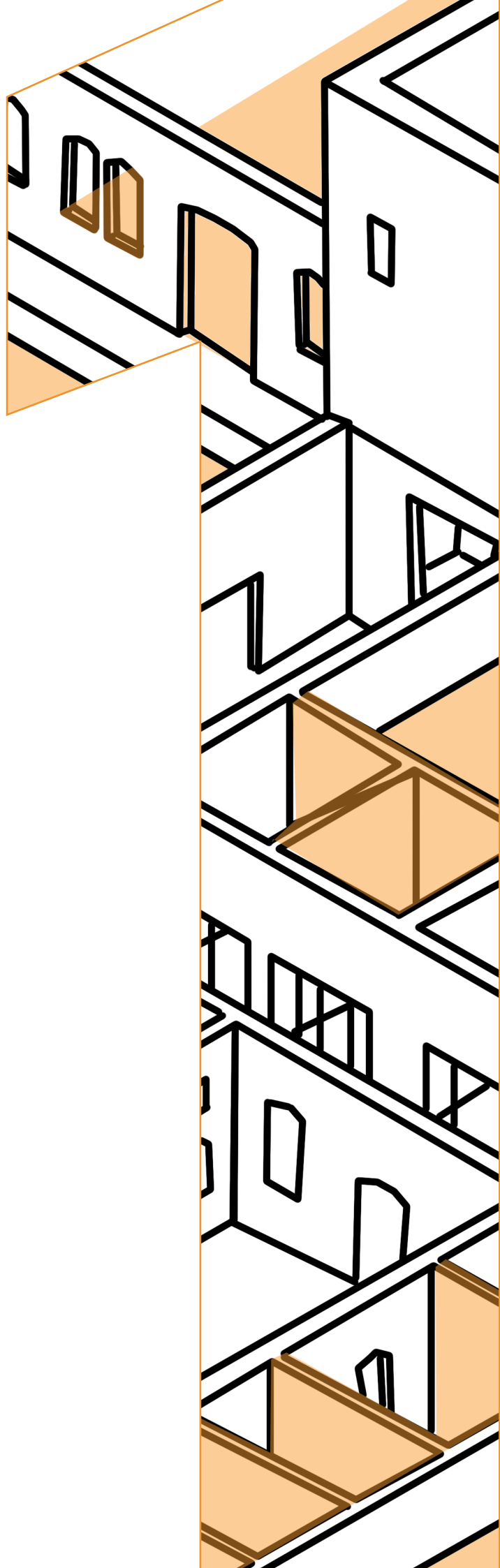
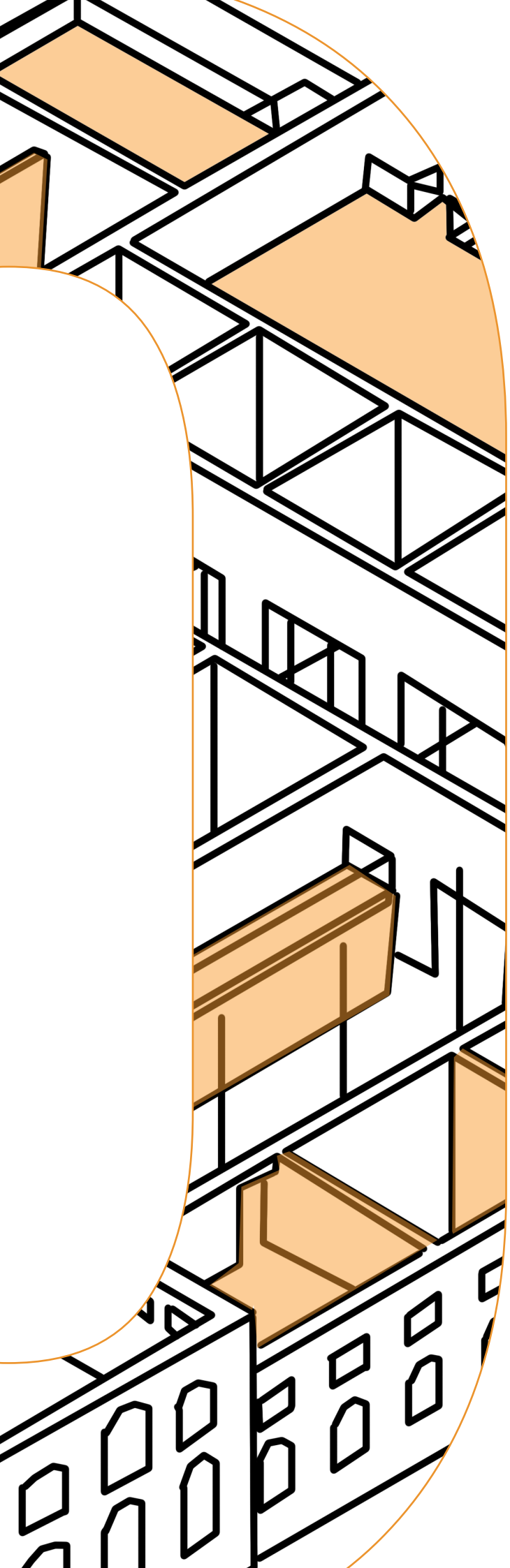
Design strategies
Usability of the strategies



05

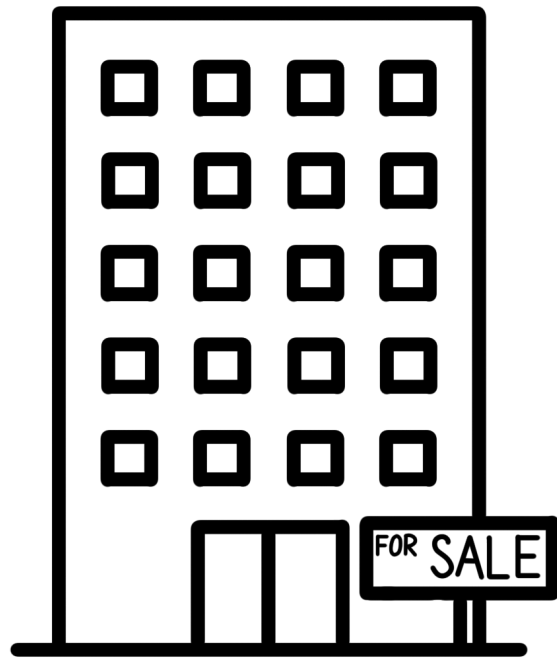
RECOMMENDATIONS



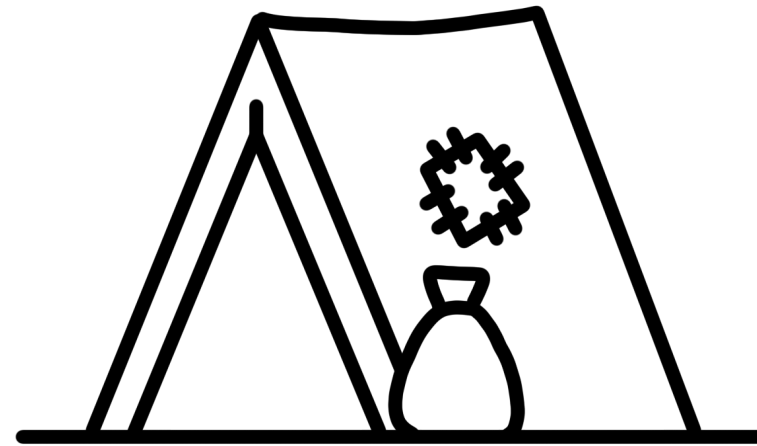


RESEARCH

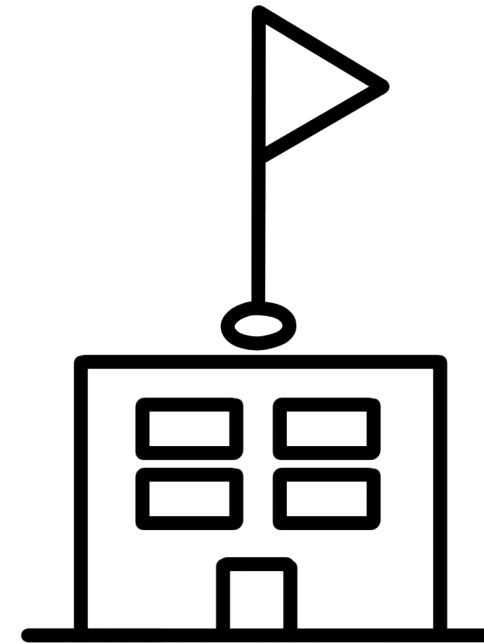
Problem statement



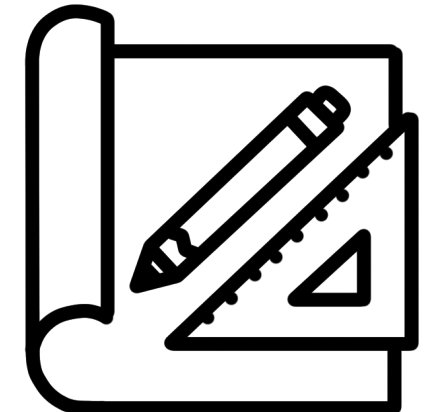
Vacant buildings whose function has been relocated



The housing crisis in the Netherlands



The demolition of buildings that have been important in the history of their surroundings

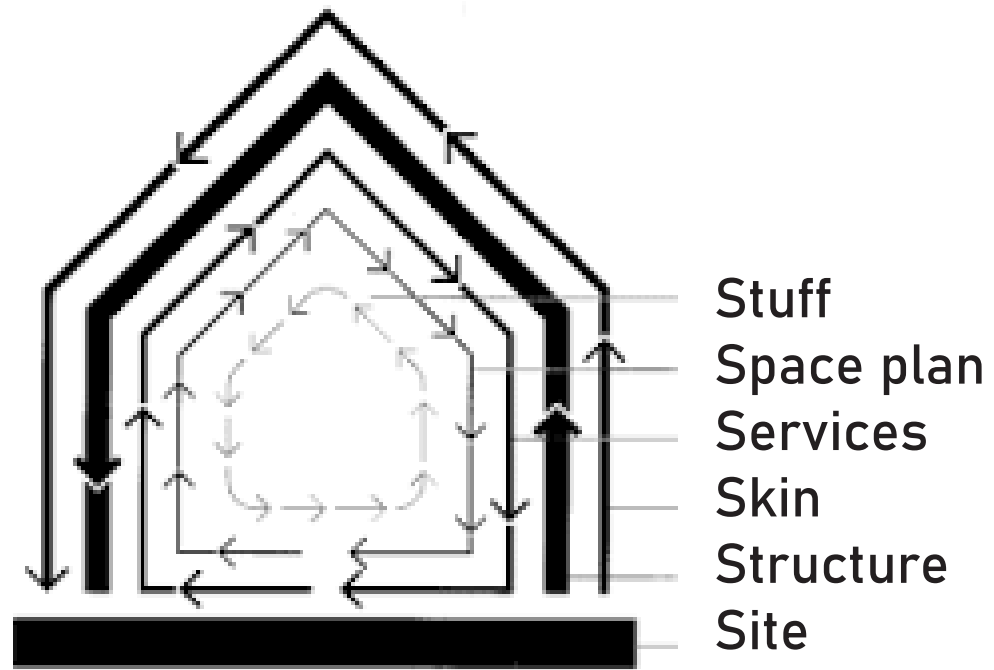


The difficulty of design plans in transformations

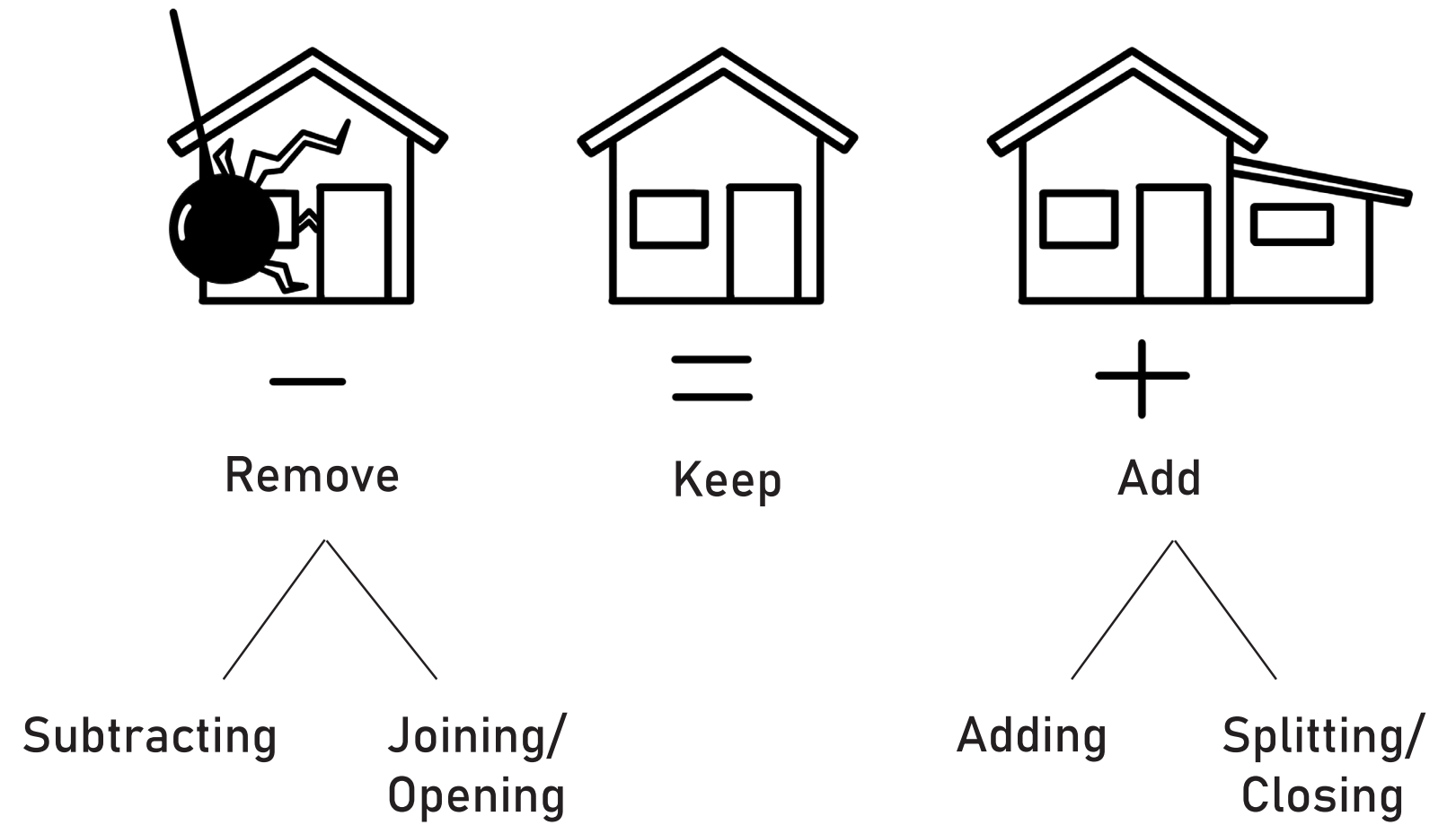
Research question

What design strategies can be used during the design process to preserve a building when it is split into smaller segments, and to what extent do these design strategies help in designing a building to be transformed?

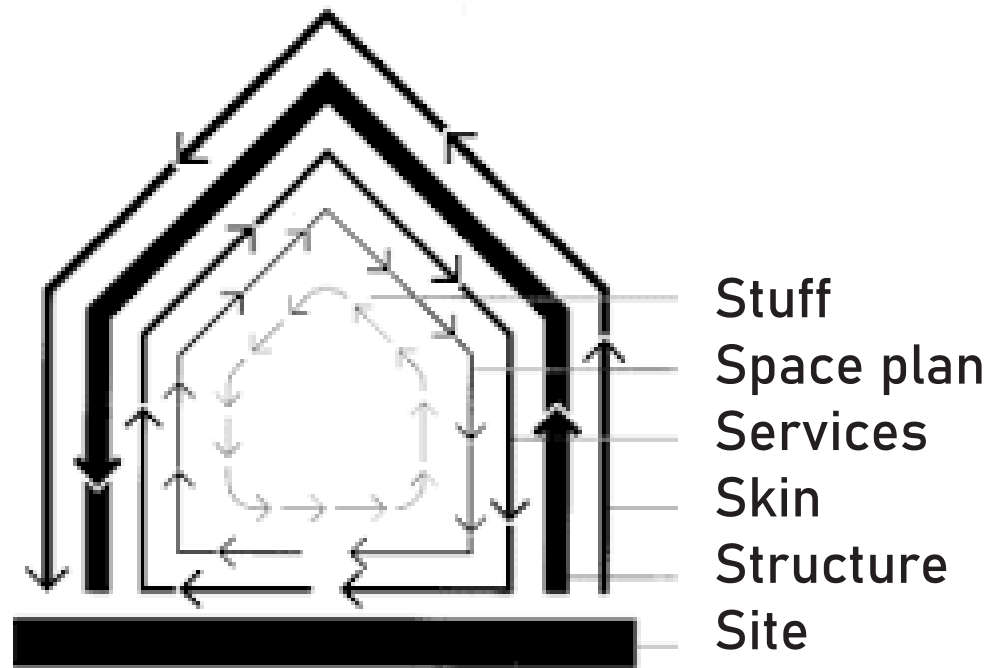
Methods



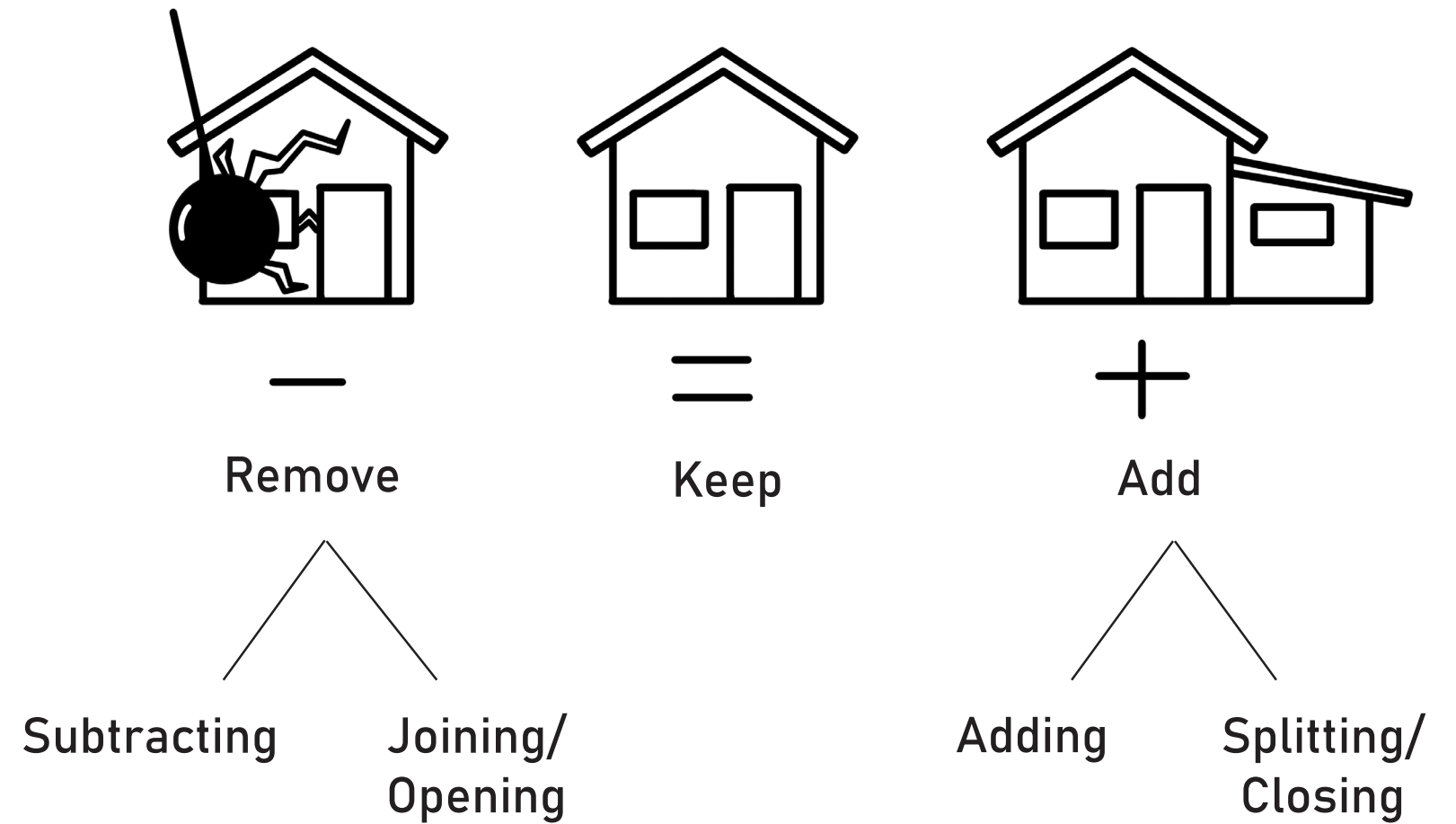
Shearing layers by Stewart Brand (1995)



Methods



Shearing layers by Stewart Brand (1995)



	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Shearing layers of Brand						

Case studies

The Slaughterhouse



(Van Heeswijk Architecten, z.d.)

The Old rope factory



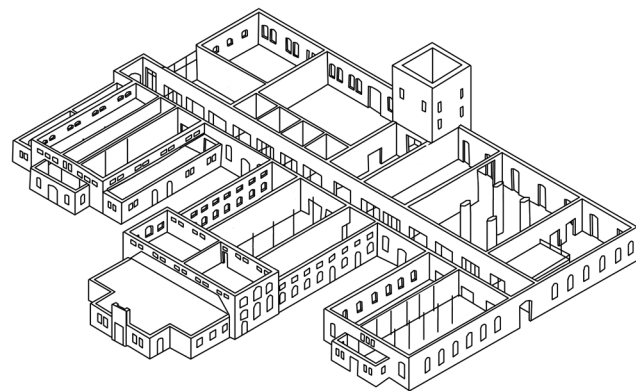
(Touwfabriek, Oudewater - Braaksma & Roos Architectenbureau, 2023)

The Twentse theater

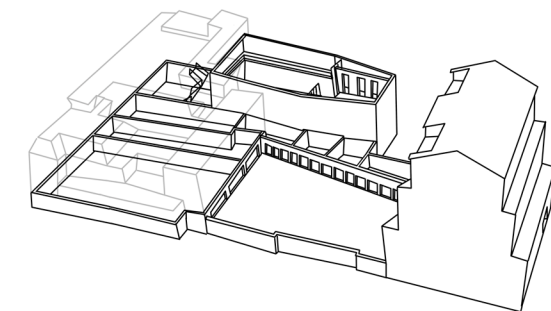
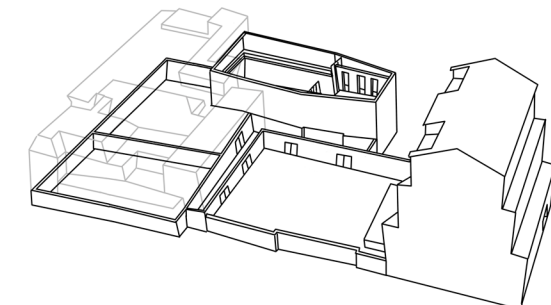
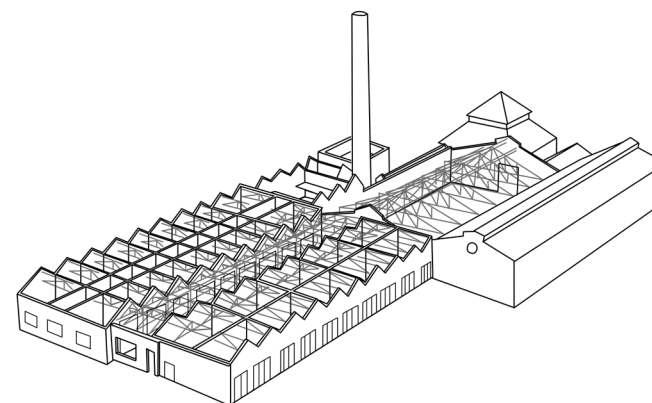
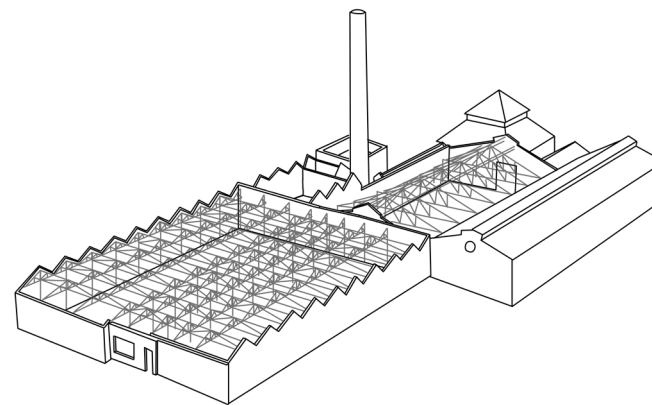
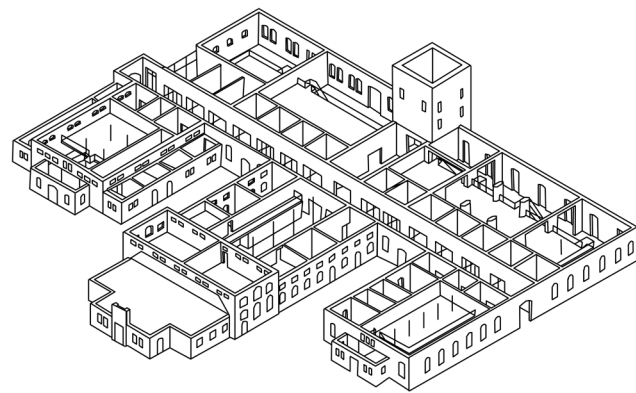


(Herbestemming Twentse Schouwburg - De Zwarte Hond, z.d.)

Old situation

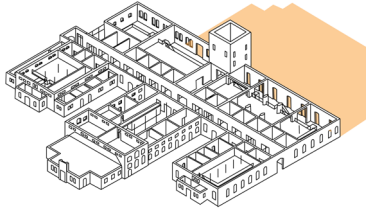
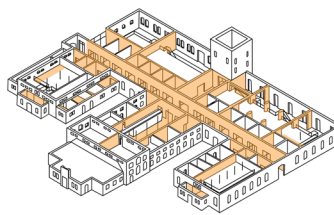
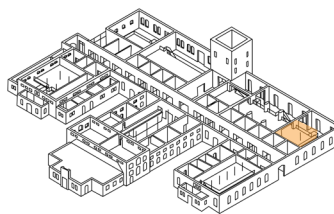
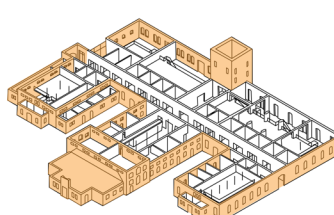
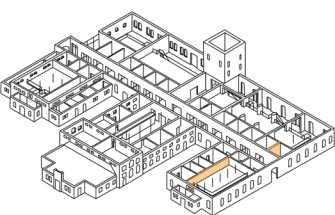
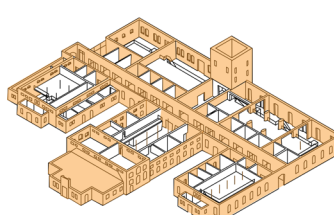
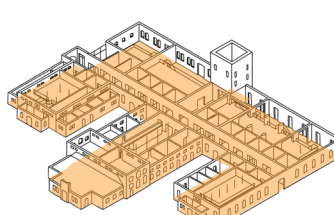


New situation



Classification of the Slaughterhouse

Adaptability

		Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same	
Layers	Spaceplan							
	Services							
	Skin							
	Structure							
	Site							

Comparison of the spaceplan

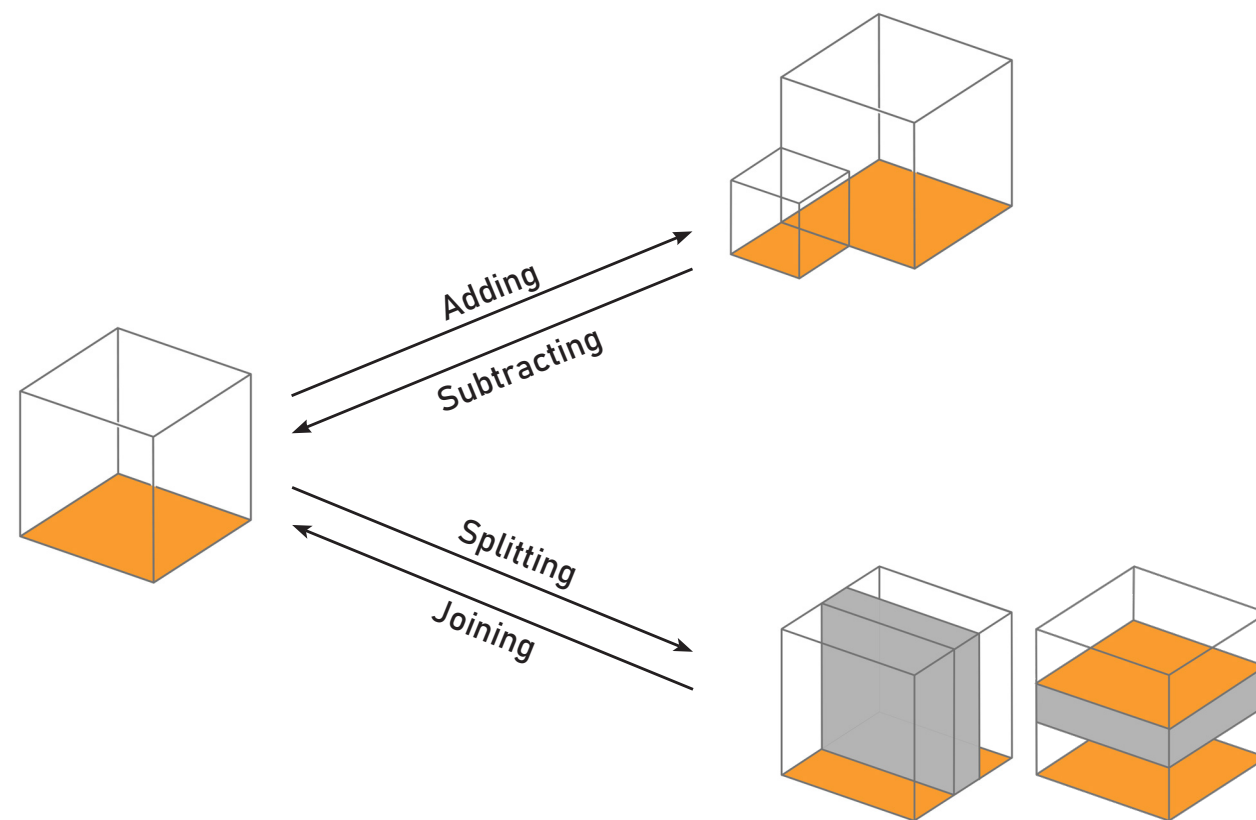
Adaptability

Case studies

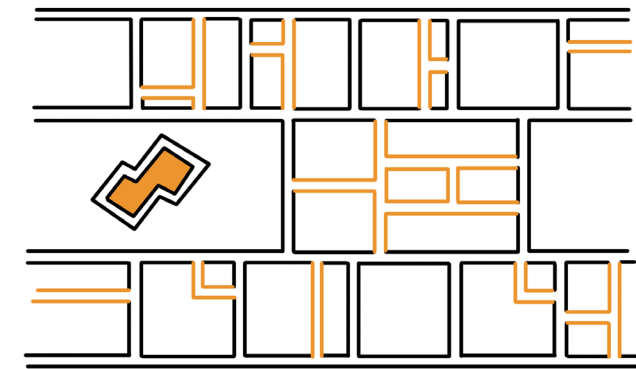
	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Slaughterhouse						
Rope factory						
Theater						

The principles and strategy of the spaceplan

Principles:



Strategy:

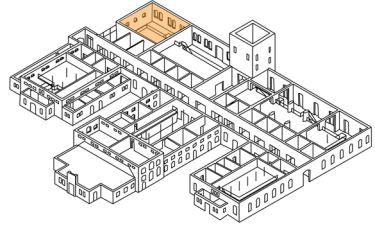
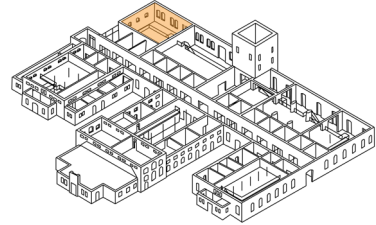
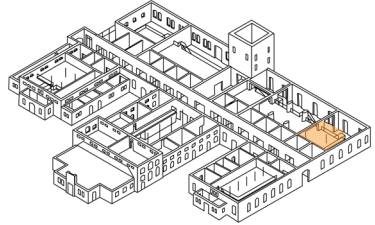
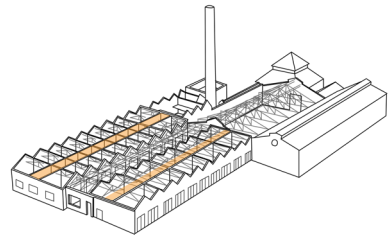
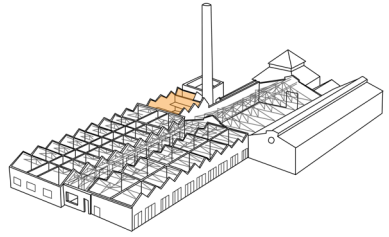
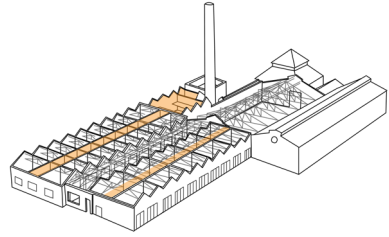


The space plan of the building should be kept the same in main plan as much as possible, where additional walls and floors can be added. It is added that a distinctive area of the building's floor plan should remain unchanged.

Comparison of the services

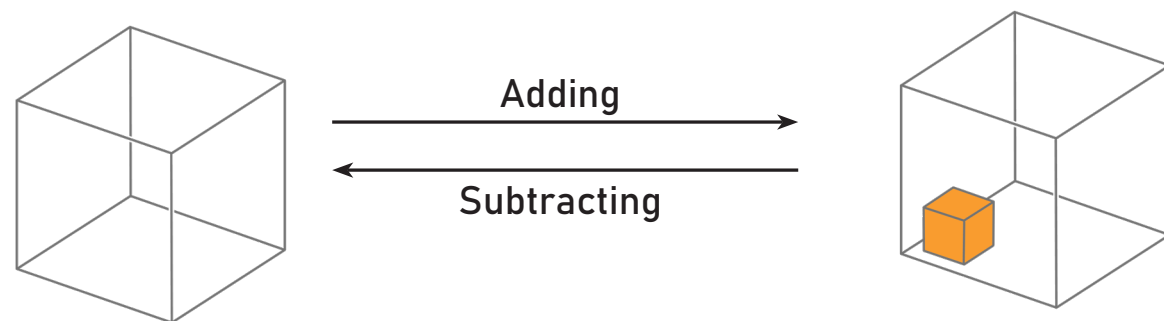
Adaptability

Case studies

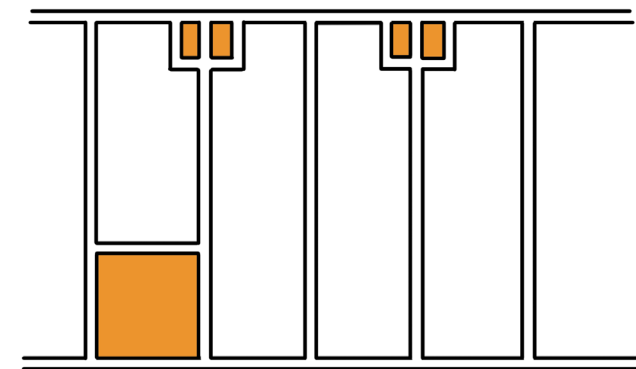
	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Slaughterhouse						
Rope factory						
Theater						

The principles and strategy of the services

Principles:



Strategy:



More services should be added per apartment and part of the general service spaces should be kept.

Comparison of the skin

Adaptability

Case studies

	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Slaughterhouse						
Rope factory						
Theater						

Spaceplan

Services

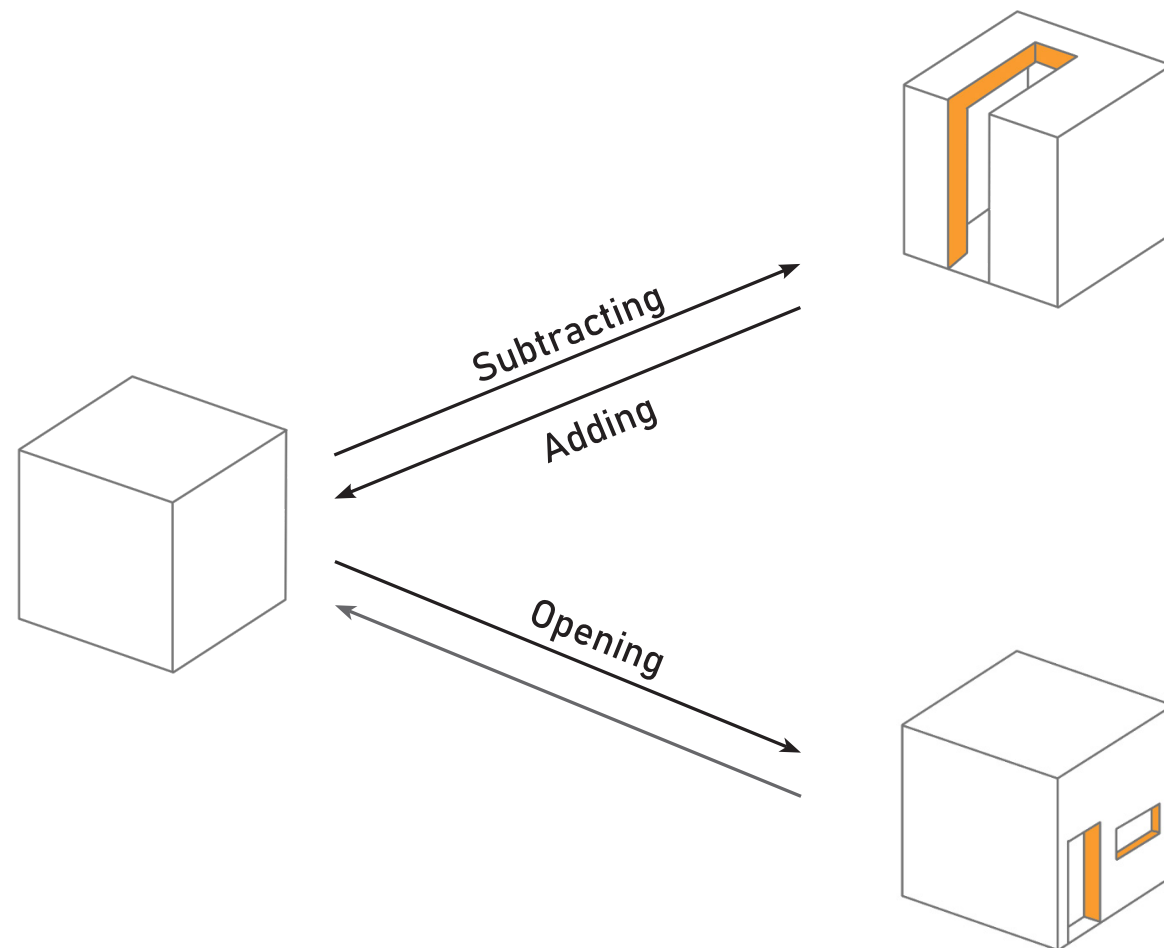
Skin

Structure

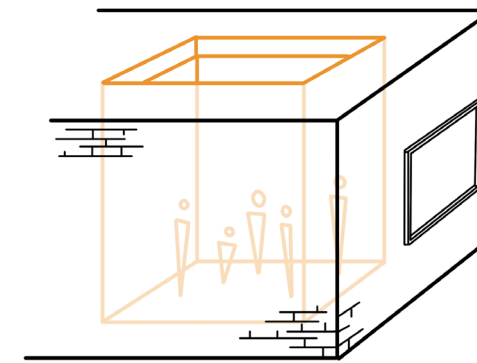
Site

The principles and strategy of the skin

Principles:



Strategy:

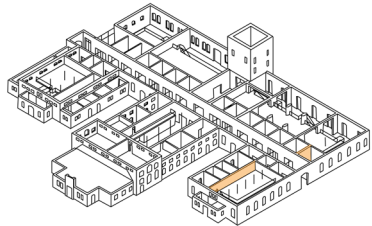
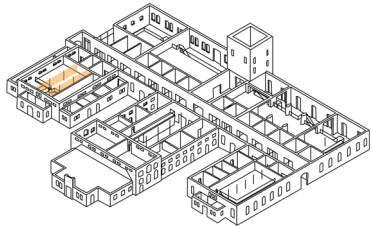
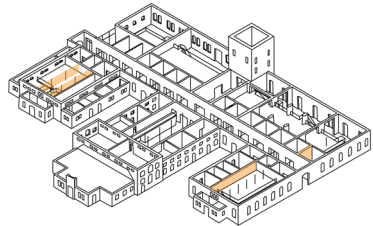
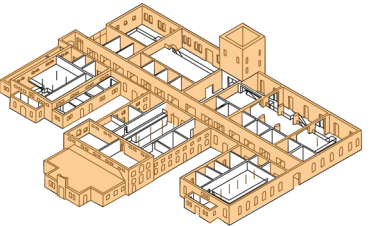
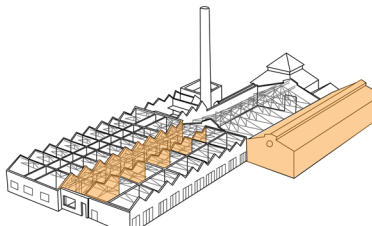
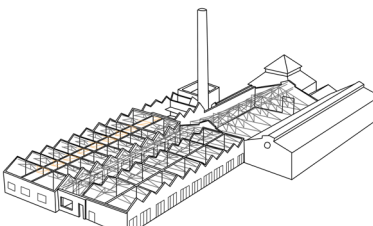
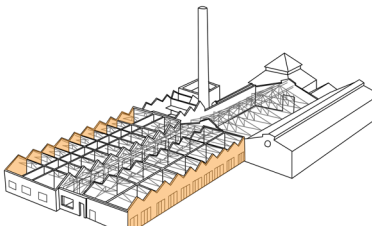
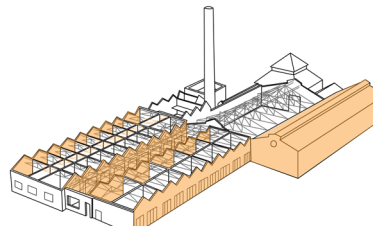
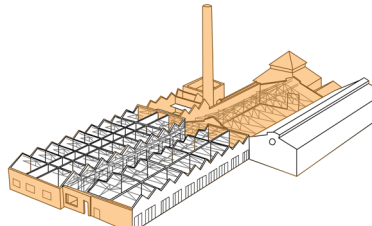
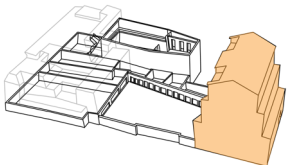
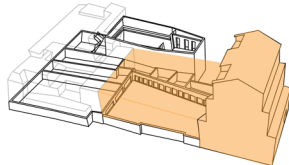
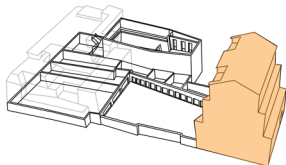
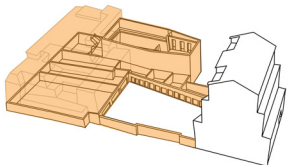


The facade should be kept as much as possible and only a subtraction in the roof should be made where people gather.

Comparison of the structure

Adaptability

Case studies

	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Slaughterhouse						
Rope factory						
Theater						

Spaceplan

Services

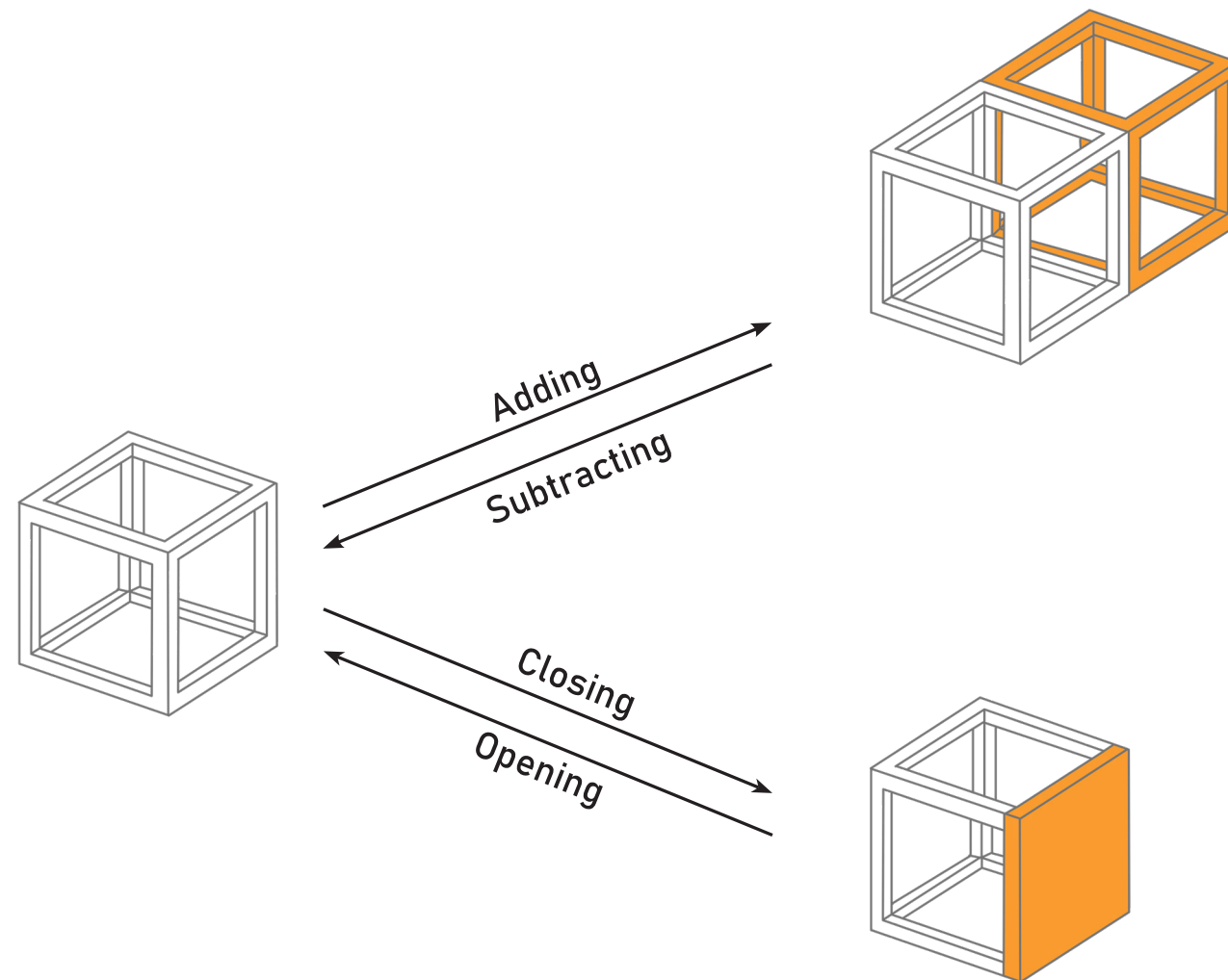
Skin

Structure

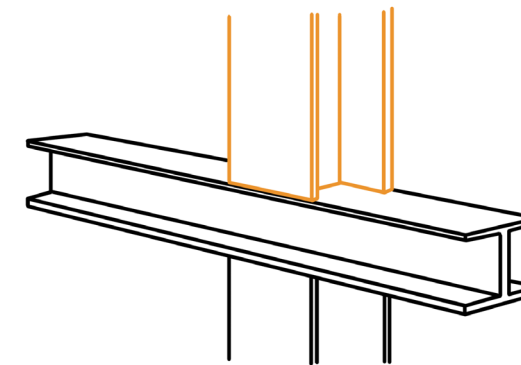
Site

The principles and strategy of the structure

Principles:



Strategy:



Keep the structure visible where it was already visible and keep the structure the same much as possible.

Comparison of the site

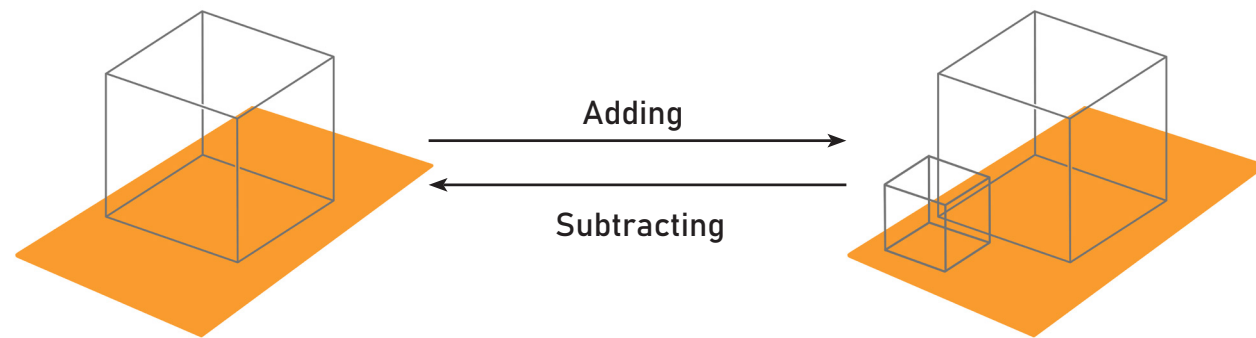
Adaptability

Case studies

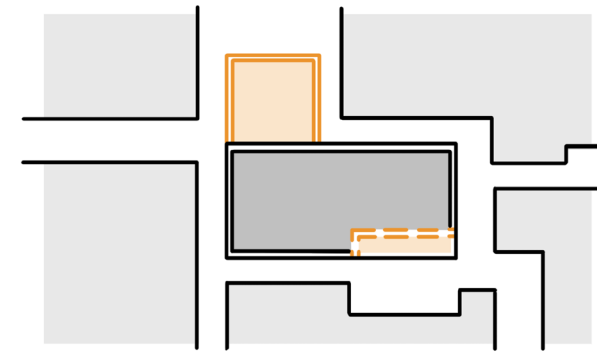
	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Slaughterhouse						
Rope factory						
Theater						

The principles and strategy of the site

Principles:



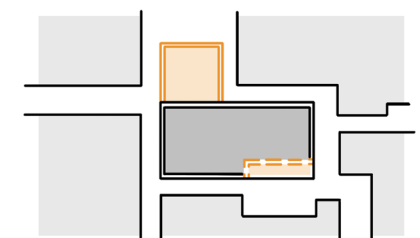
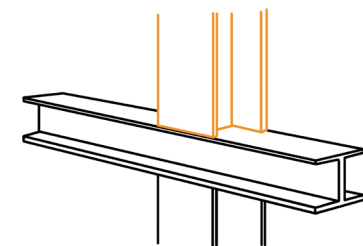
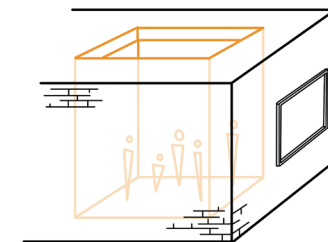
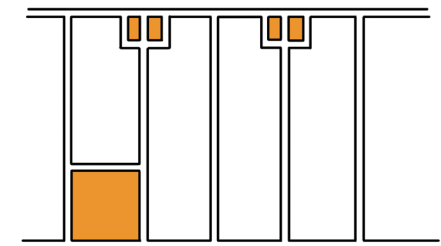
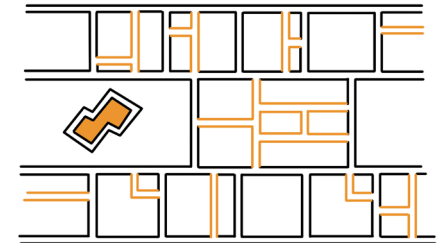
Strategy:



The site can be added, taken away or kept the same. This involves considering the possibilities of the surroundings and the new function of the building.

Conclusion of the design strategies

1. The space plan of the building should be kept the same in main plan as much as possible, where additional walls and floors can be added. It is added that a distinctive area of the building's floor plan should remain unchanged.
2. More services should be added per apartment and part of the general service spaces should be kept.
3. The facade should be kept as much as possible and only an subtraction in the roof should be made where people gather.
4. Keep the structure visible where it was already visible and keep the structure the same much as possible.
5. The site can be added, taken away or kept the same. This involves considering the possibilities of the surroundings and the new function of the building.





DESIGN BY THE STRATEGIES

The assessment building, the Meervaart



Architect of the first building: Poul van der Wal
Architect of the renovation: Zaanen Spanjers

Built in 1977
Transformed in 1999

Spaceplan

Services

Skin

Structure

Site

The location of the Meervaart within Amsterdam New West



Spaceplan

Services

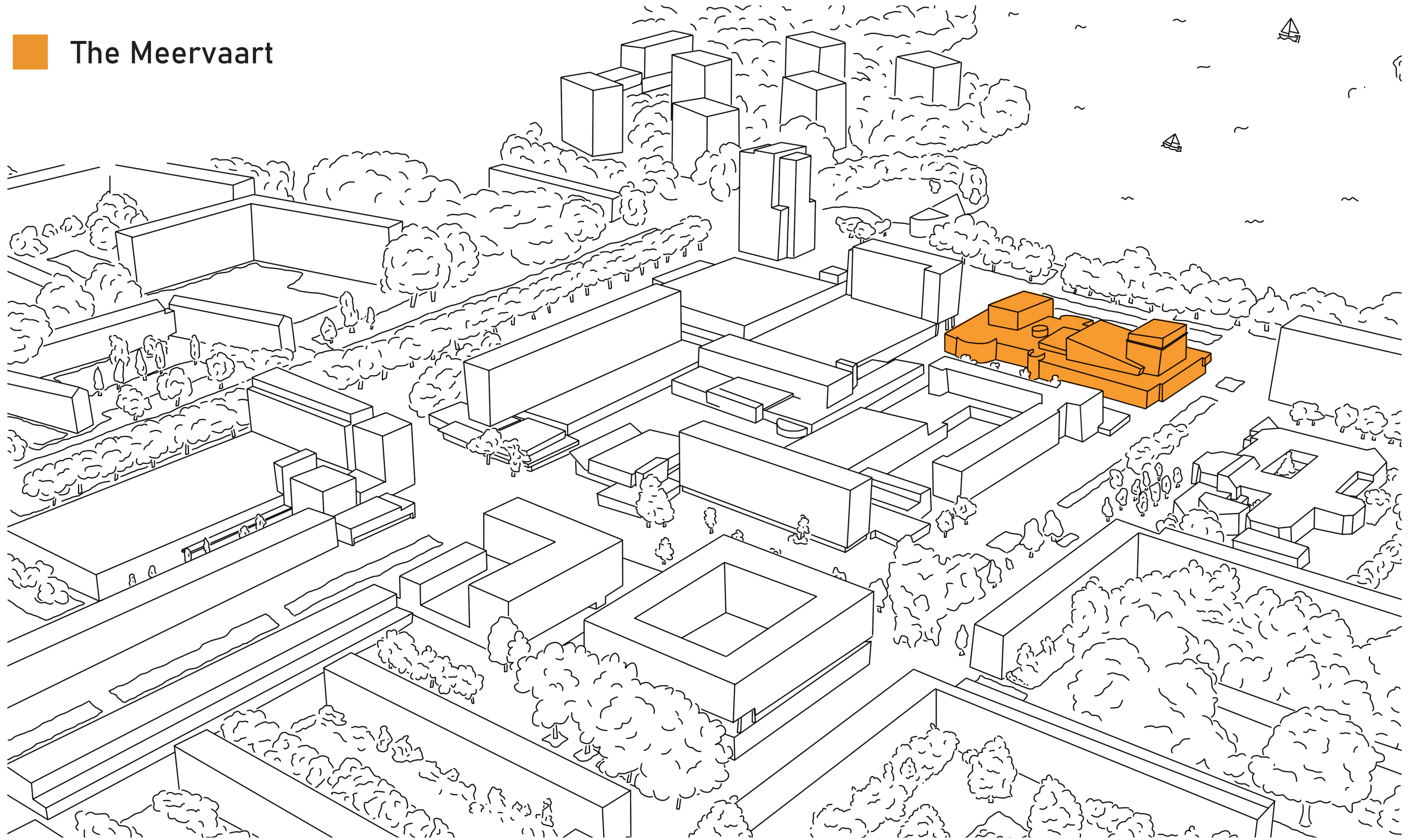
Skin

Structure

Site

The Meervaart in its surroundings

 The Meervaart



Spaceplan



Services

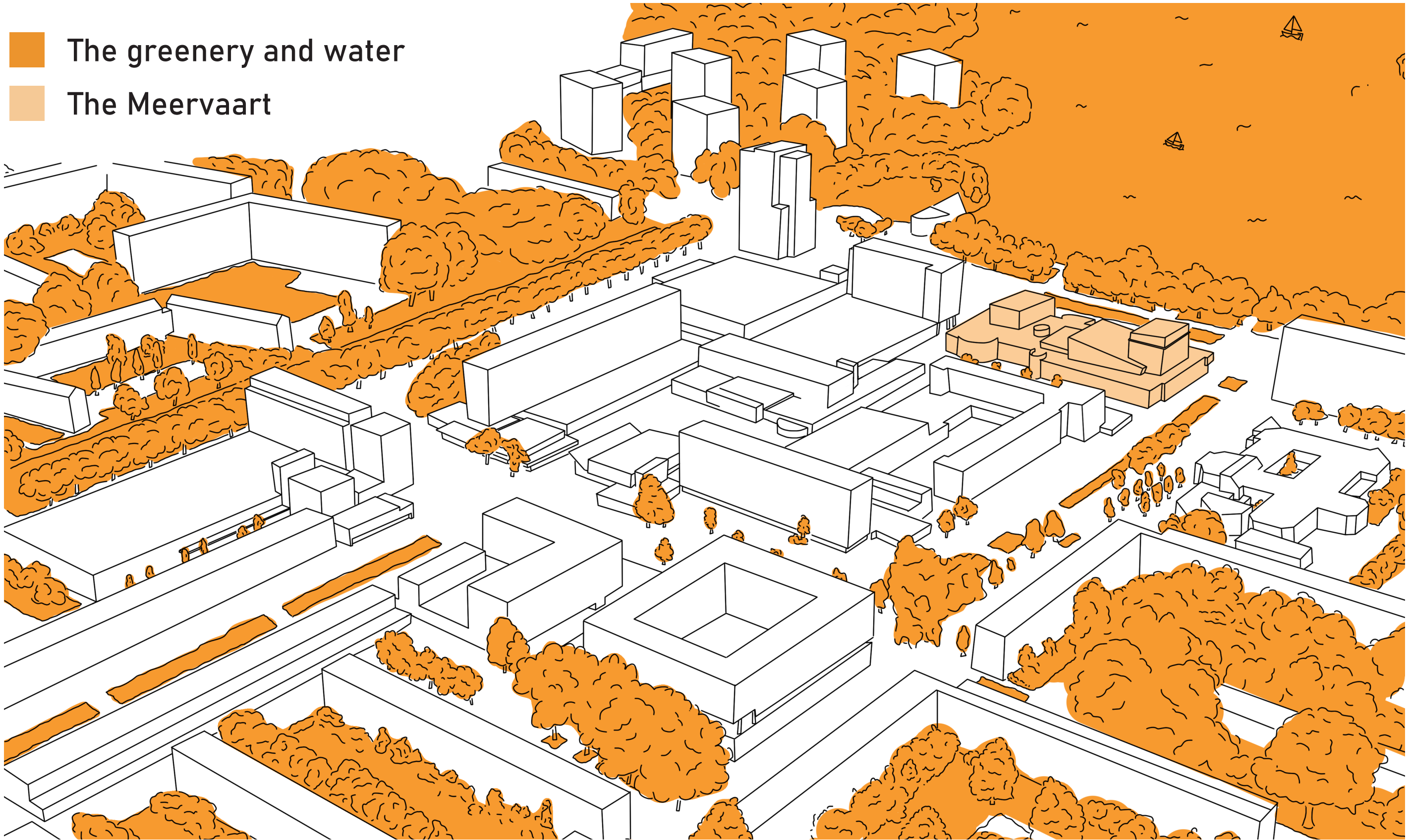
Skin

Structure

Site

The Meervaart in its surroundings

-  The greenery and water
-  The Meervaart



Spaceplan



Services

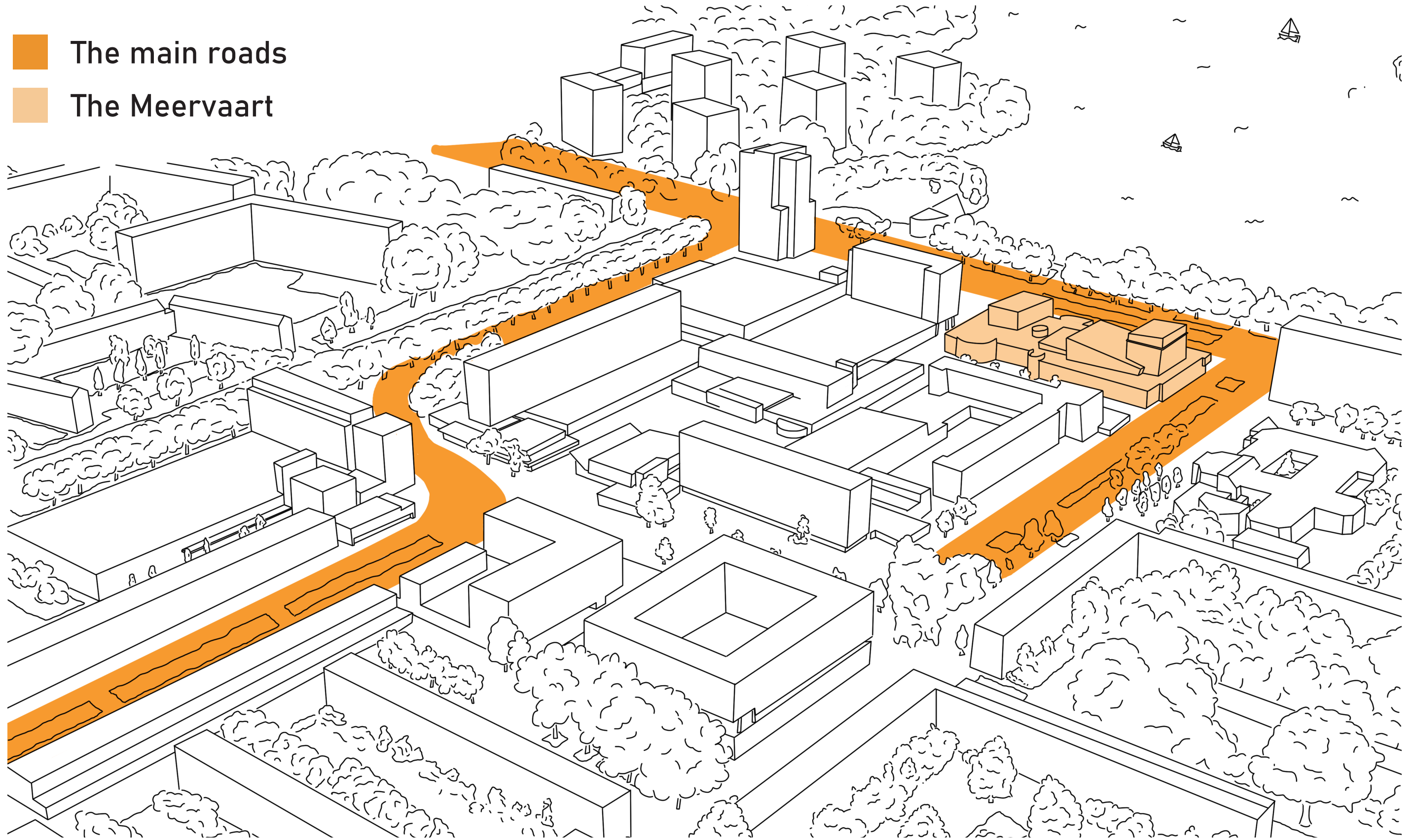
Skin

Structure

Site

The Meervaart in its surroundings

-  The main roads
-  The Meervaart



Spaceplan



Services

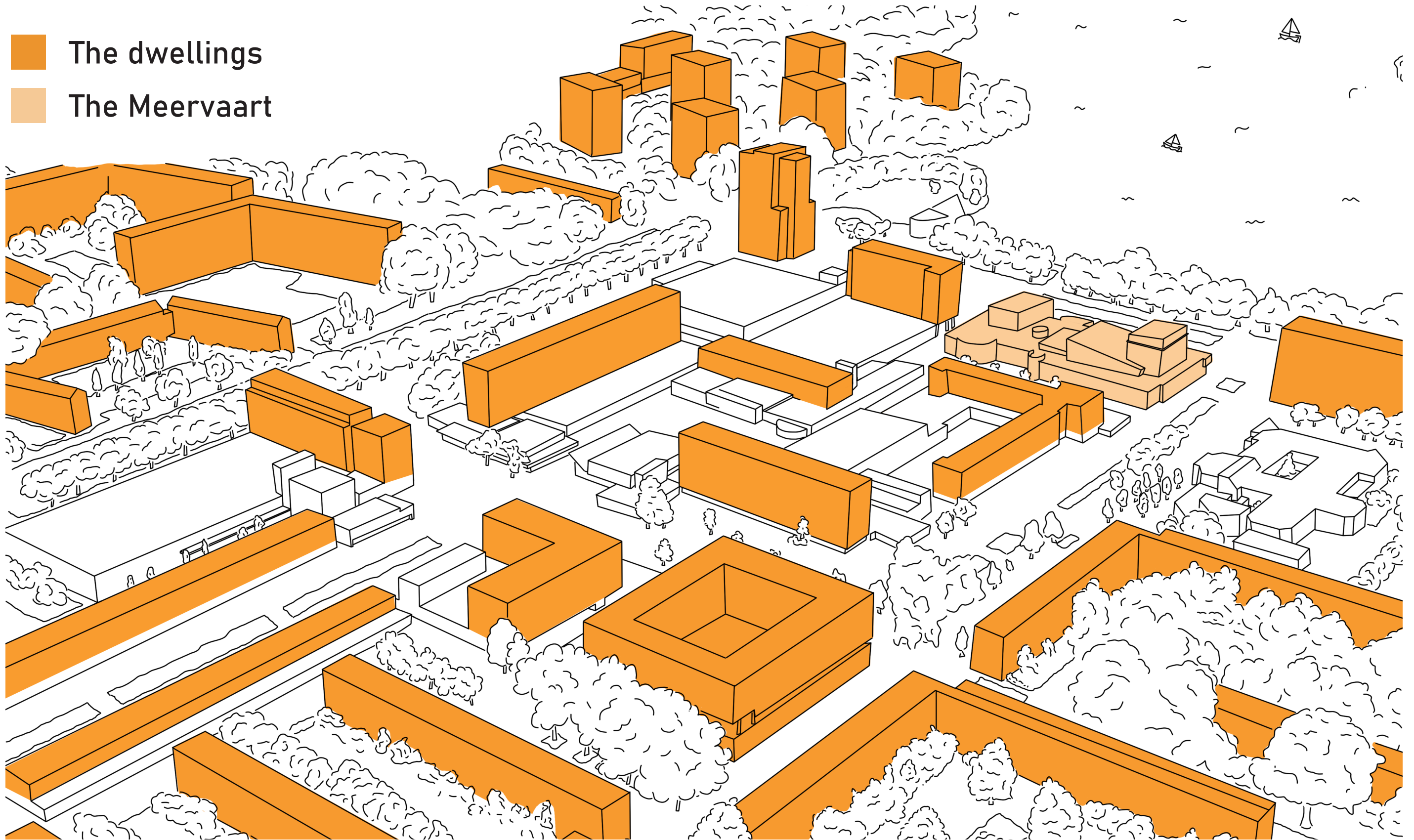
Skin

Structure

Site

The Meervaart in its surroundings

-  The dwellings
-  The Meervaart



Spaceplan



Services

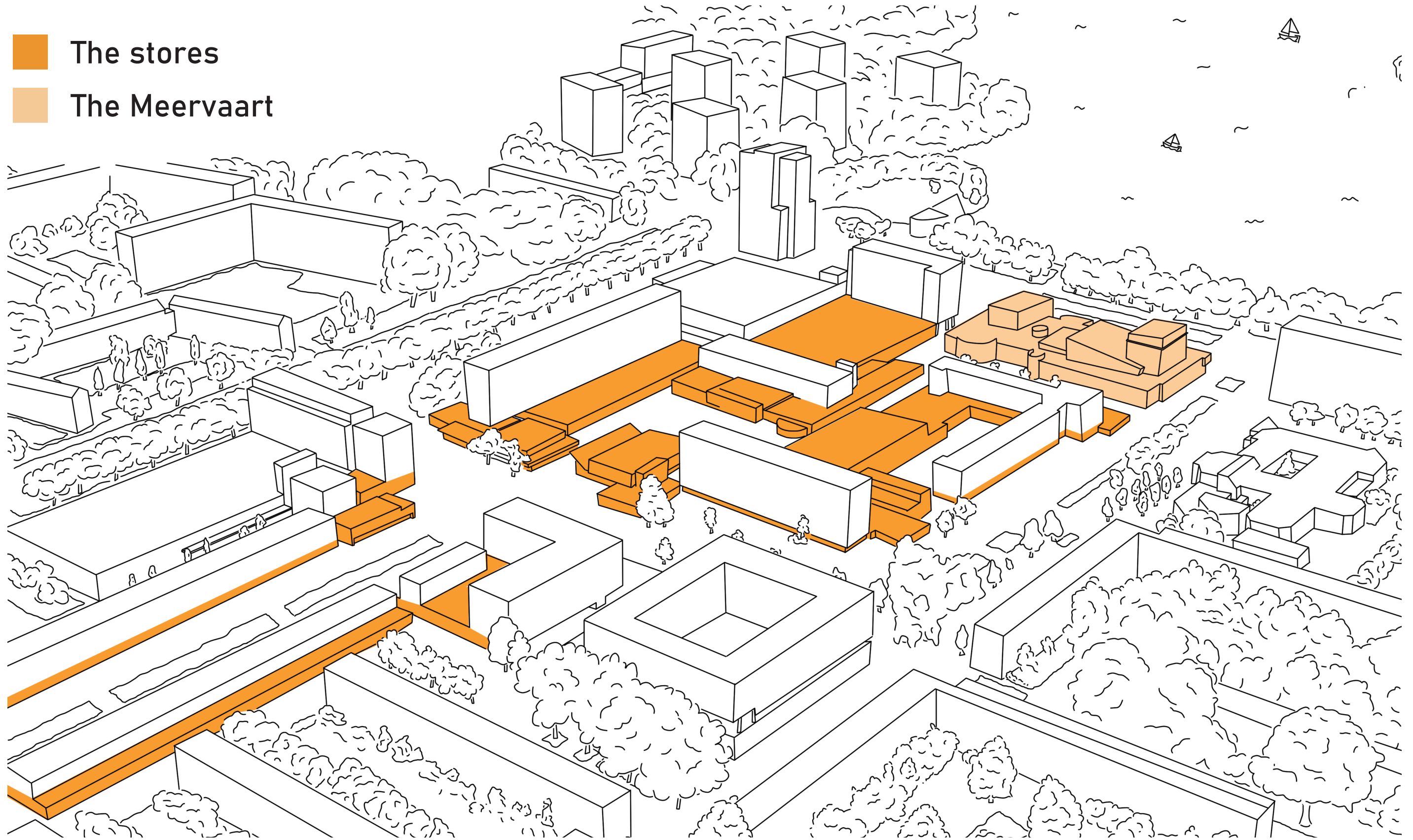
Skin

Structure

Site

The Meervaart in its surroundings

-  The stores
-  The Meervaart



Spaceplan

Services

Skin

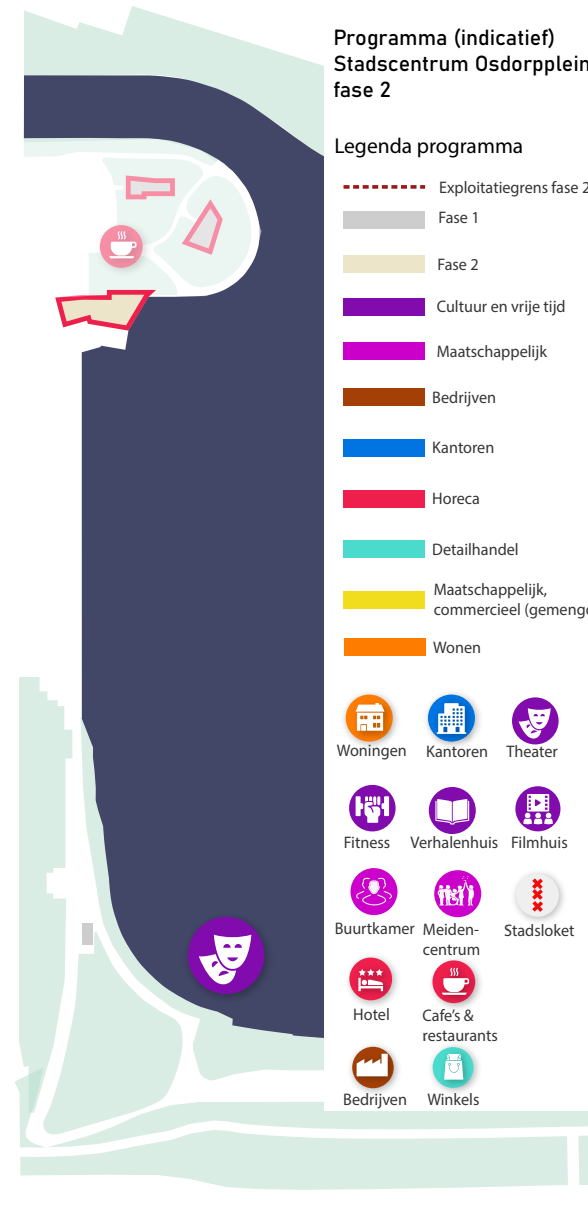
Structure

Site

Municipality's draft plans for Osdorp

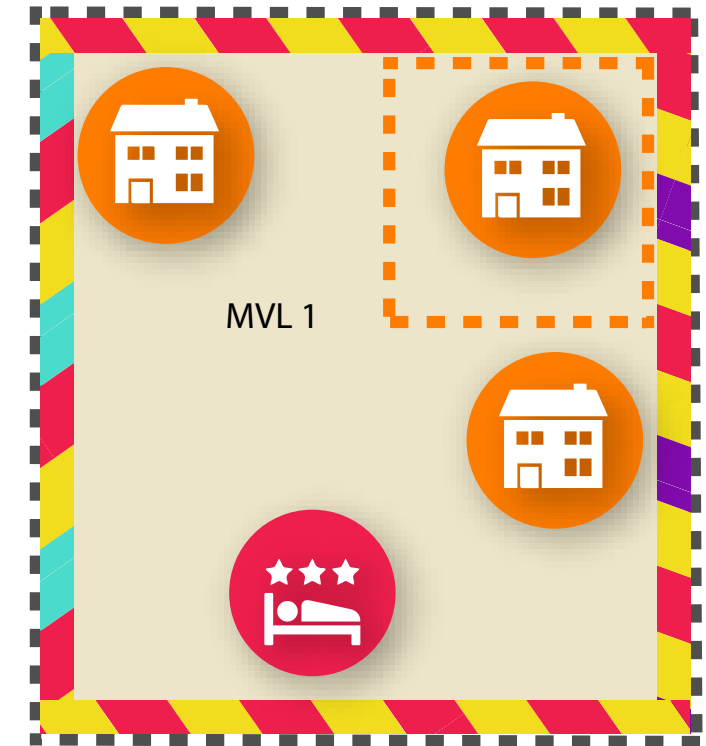


Spaceplan



Future plans of Osdorp (municipal document of amsterdam)

Skin



- Housing
- Stores
- Restaurant
- Culture and recreation
- Hotel

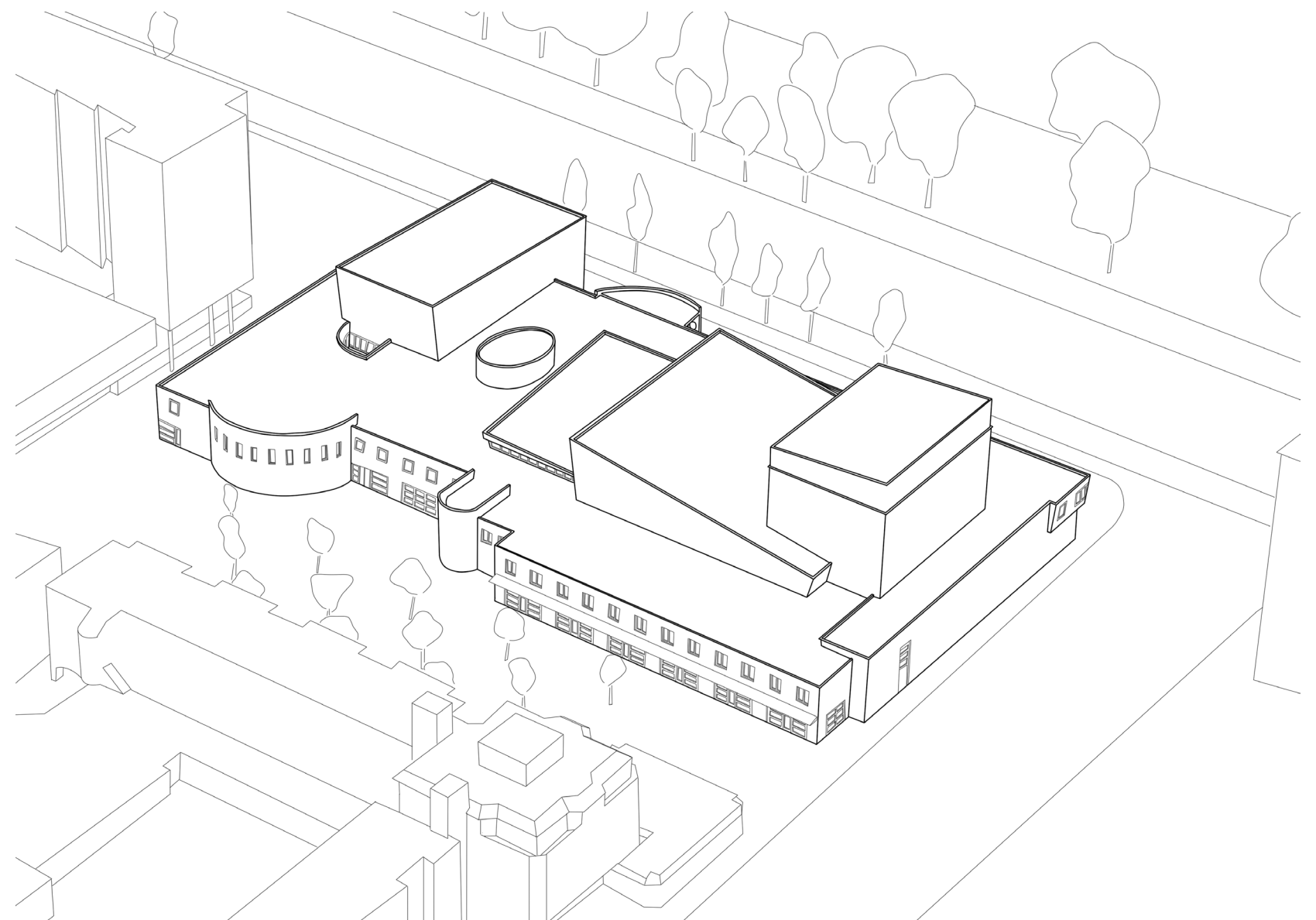
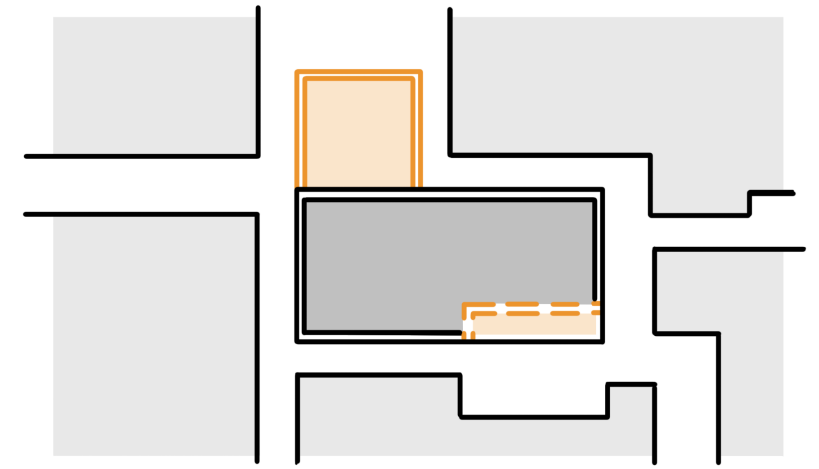
Structure

Site

Design starting points for the site

The site can be added, taken away or kept the same. This involves considering the possibilities of the surroundings and the new function of the building.

- No space opportunity
- Space used as optimally



The Meervaart in its new surroundings



Spaceplan

Services

Skin

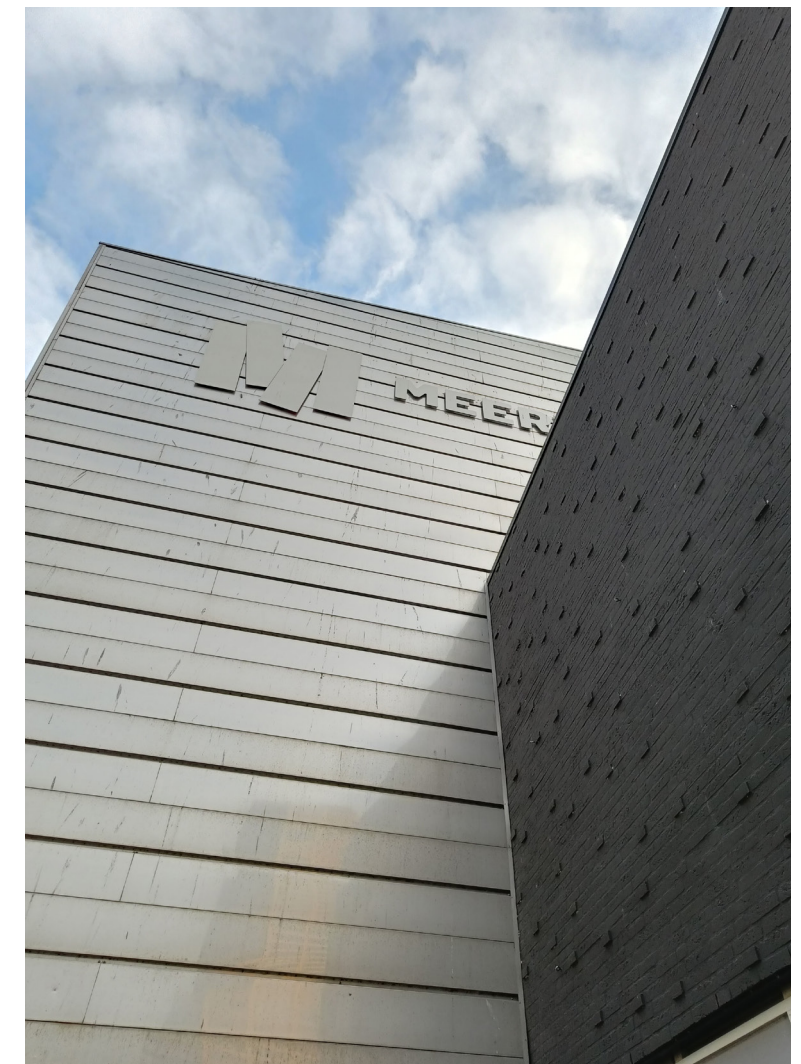
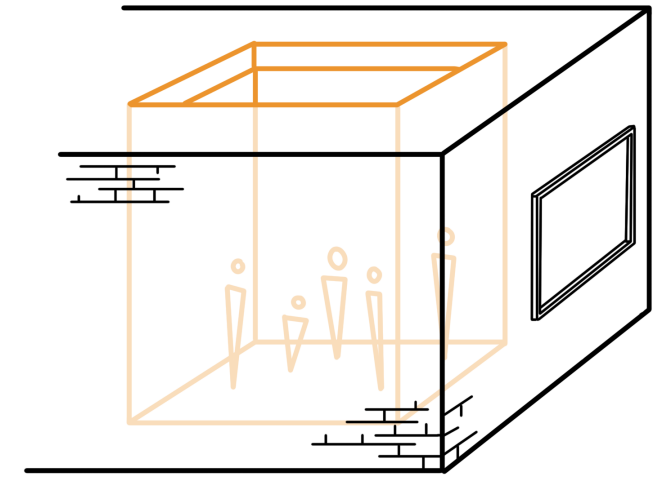
Structure

Site

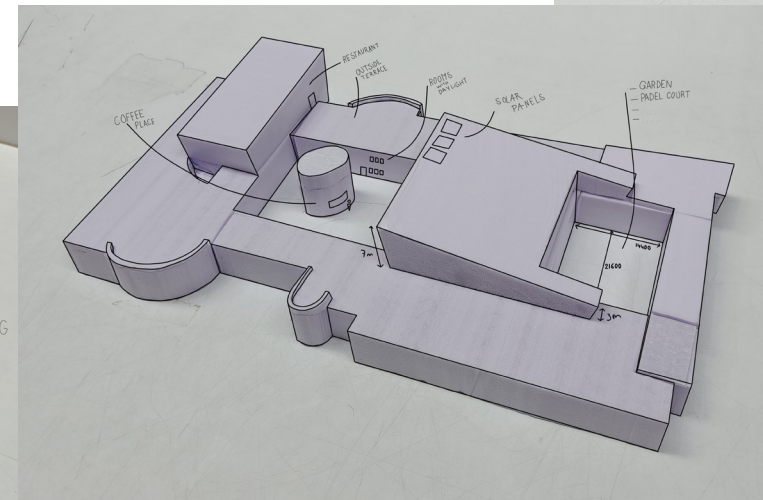
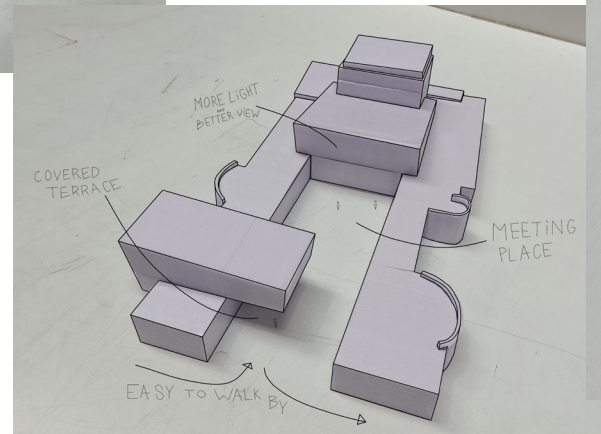
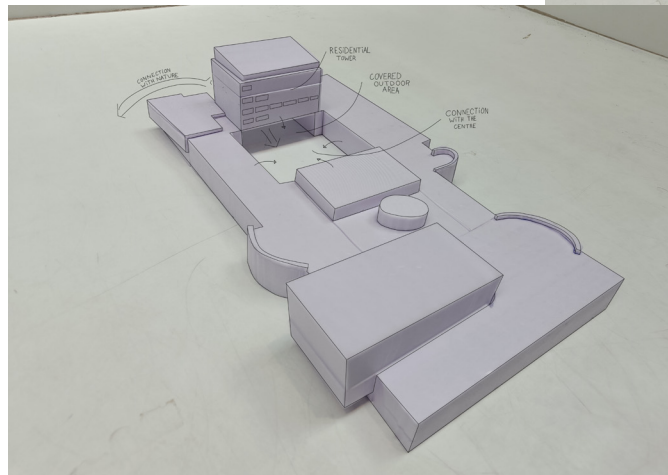
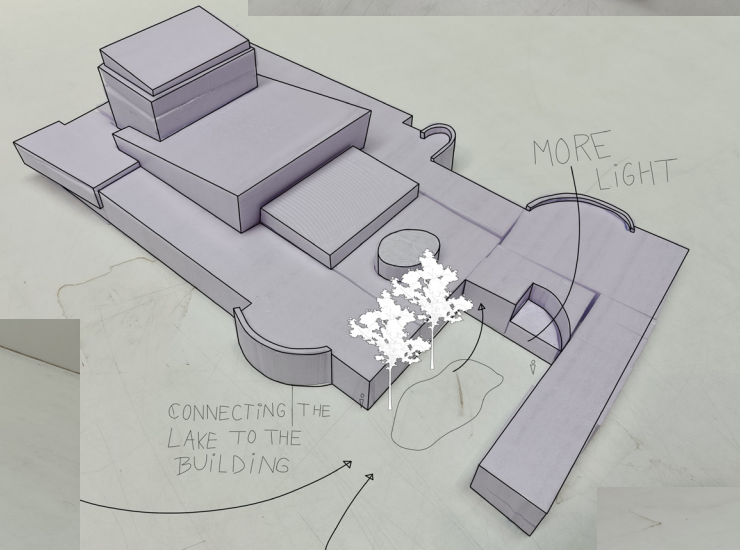
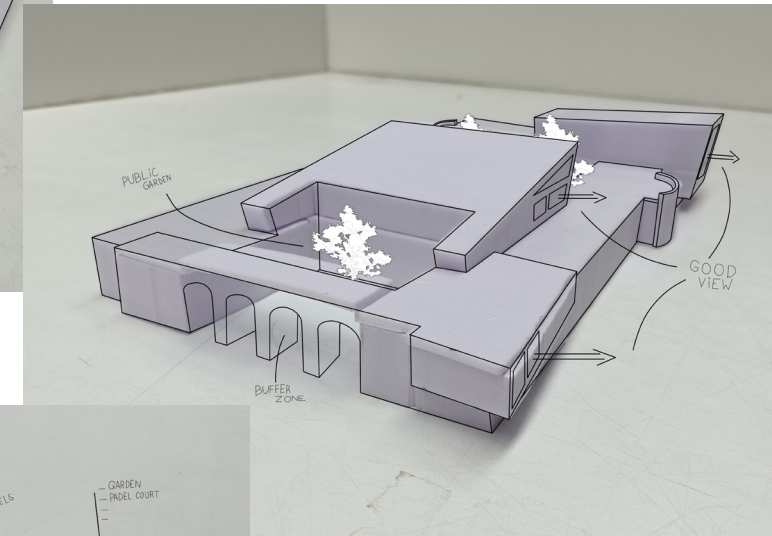
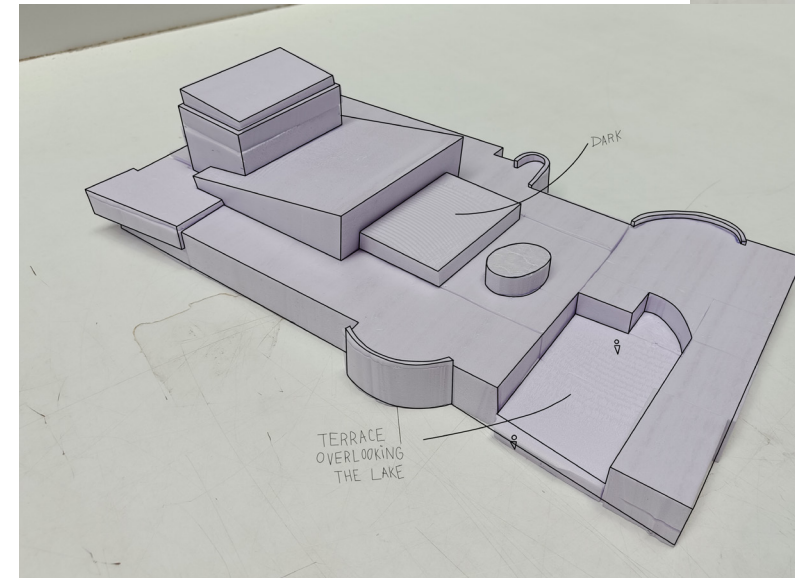
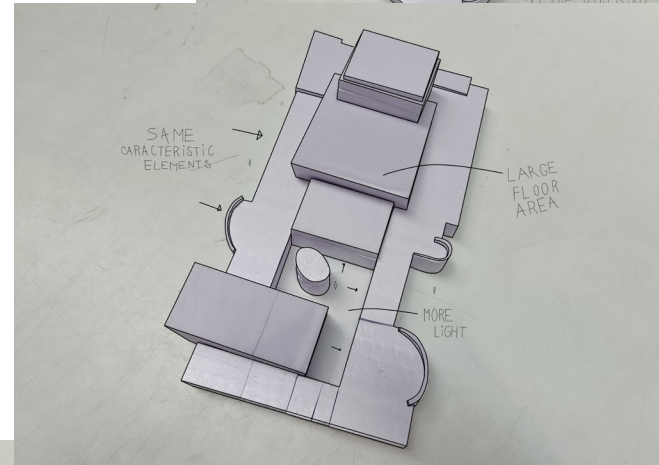
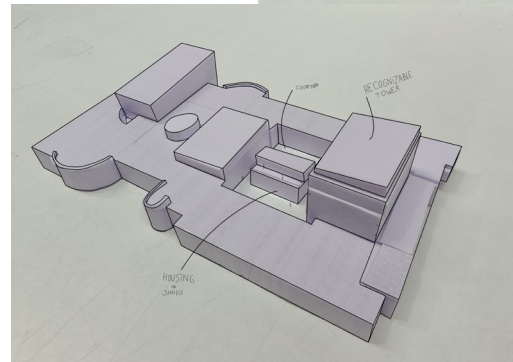
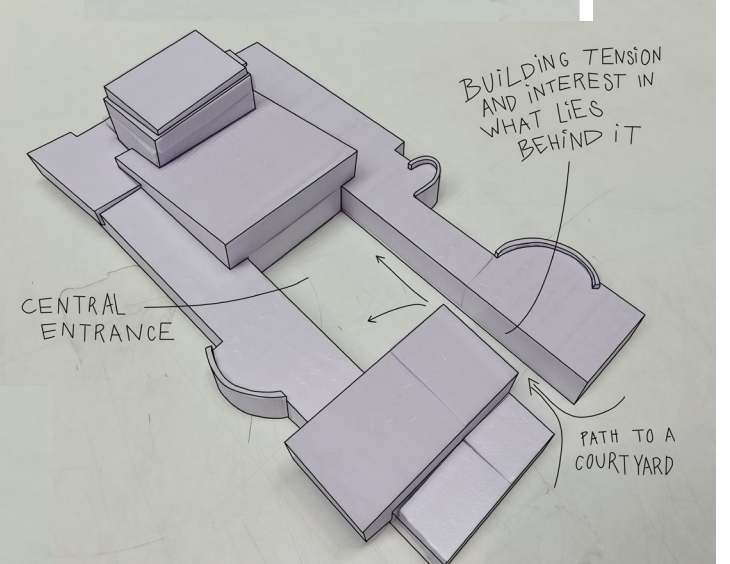
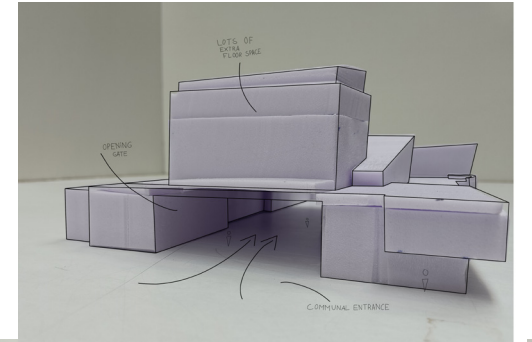
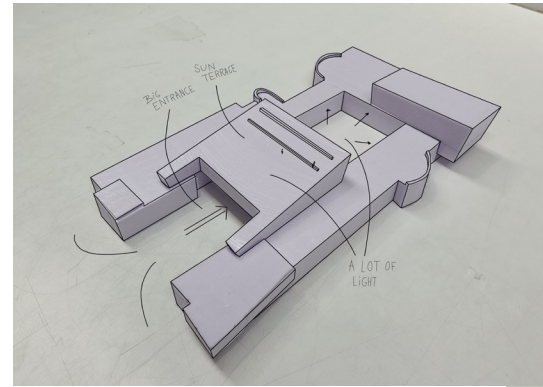
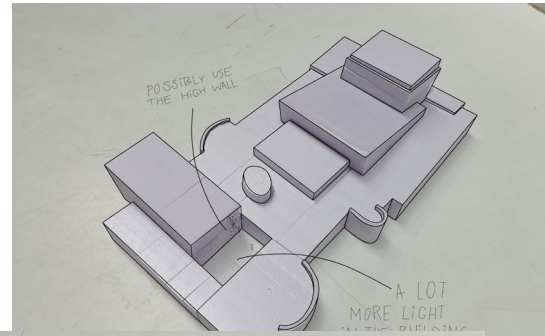
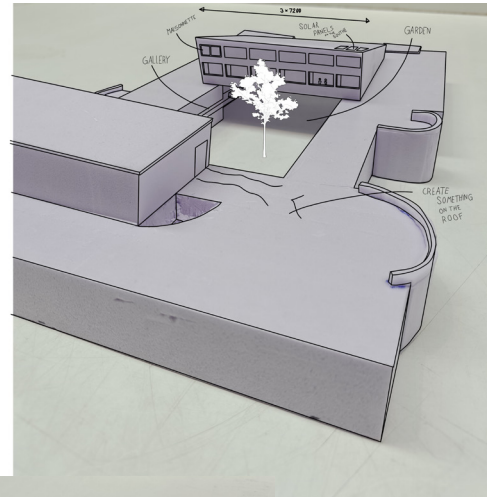
Design starting points for the skin

The facade should be kept as much as possible and only an **subtraction in the roof** should be made where people gather.

- Keep the distinctive facade
- Subtraction of the roof where people congregate



The mass studies



Spaceplan

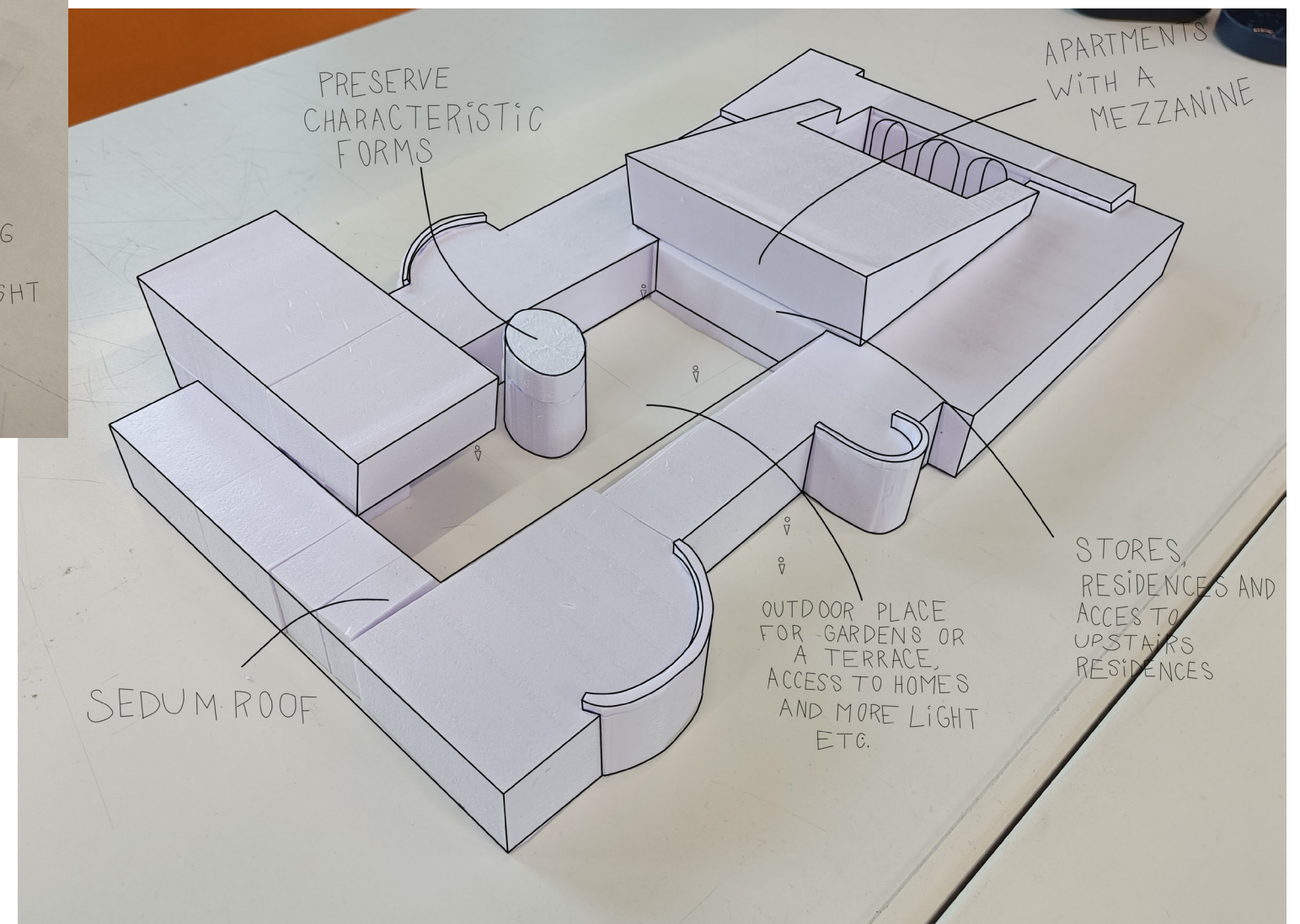
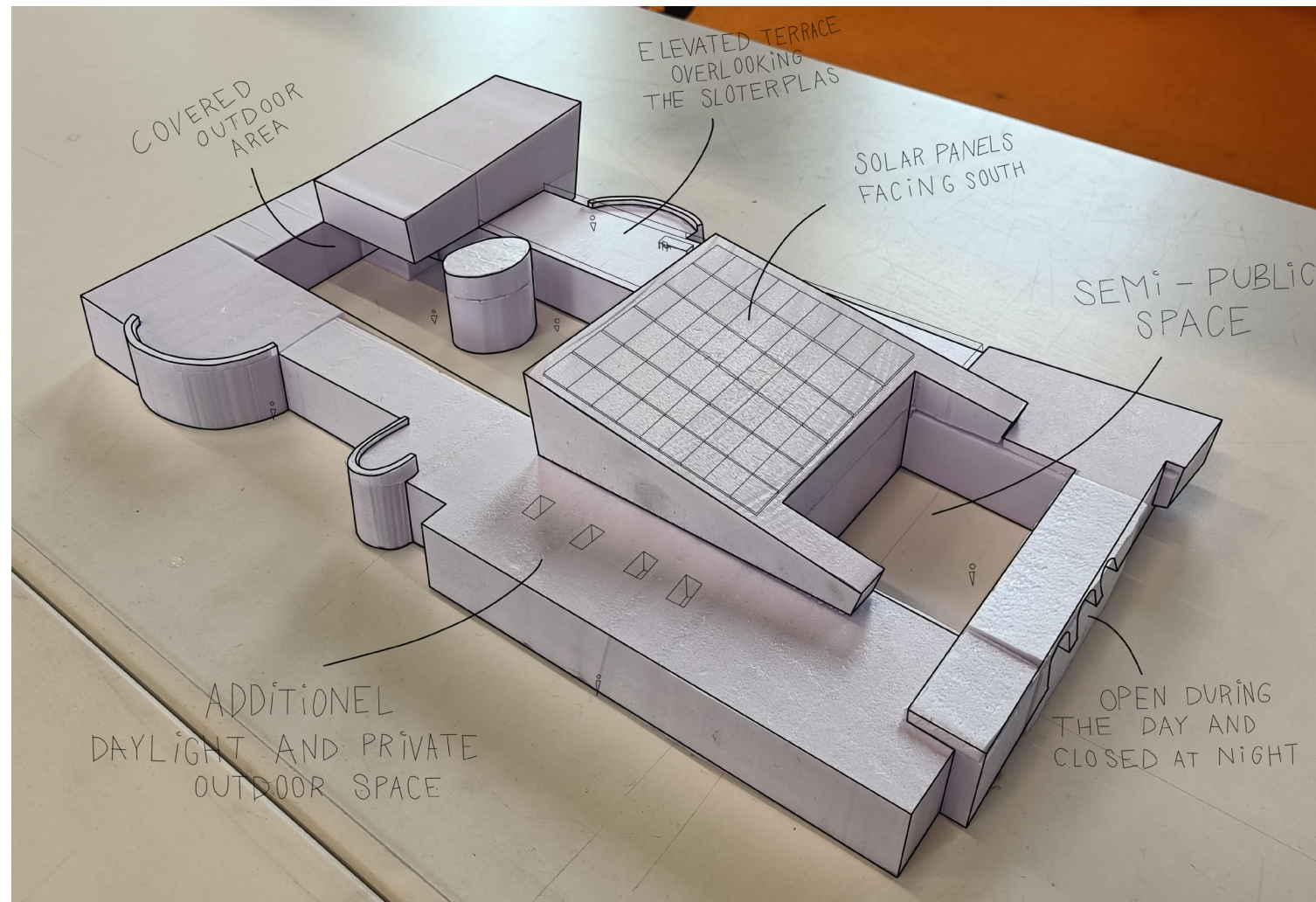
Services

Skin

Structure

Site

The mass studies chosen form



Spaceplan

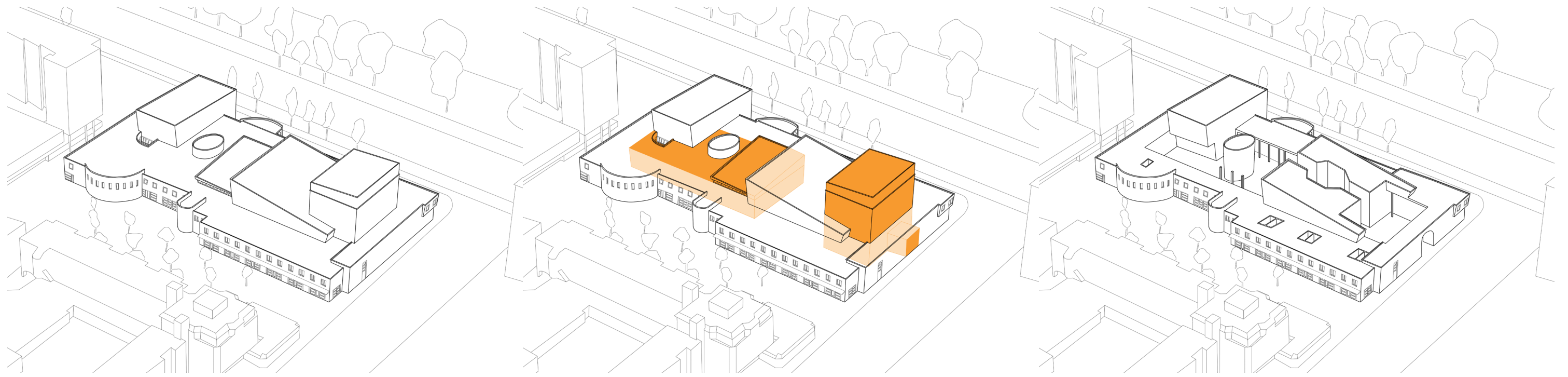
Services

Skin

Structure

Site

Transformation of the skin

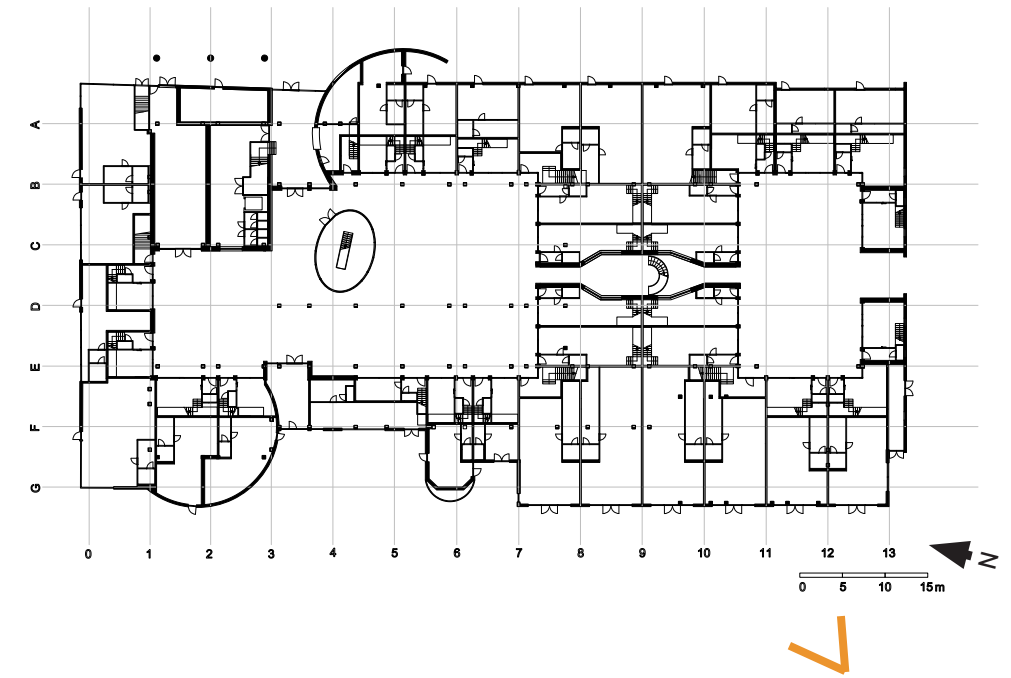
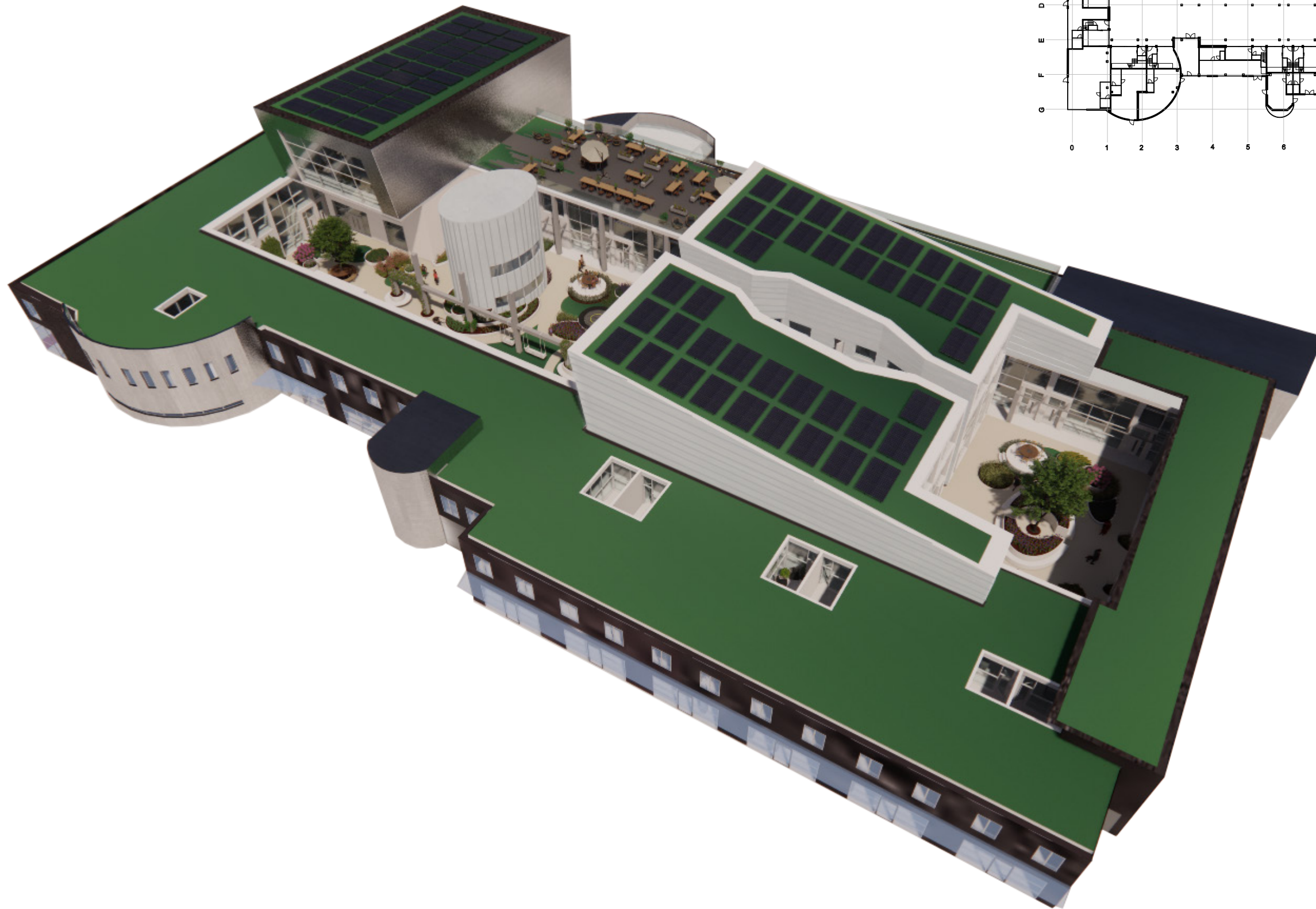


Current situation

Subtracted parts

New situation

3D visualization of the building from the southwest



Spaceplan

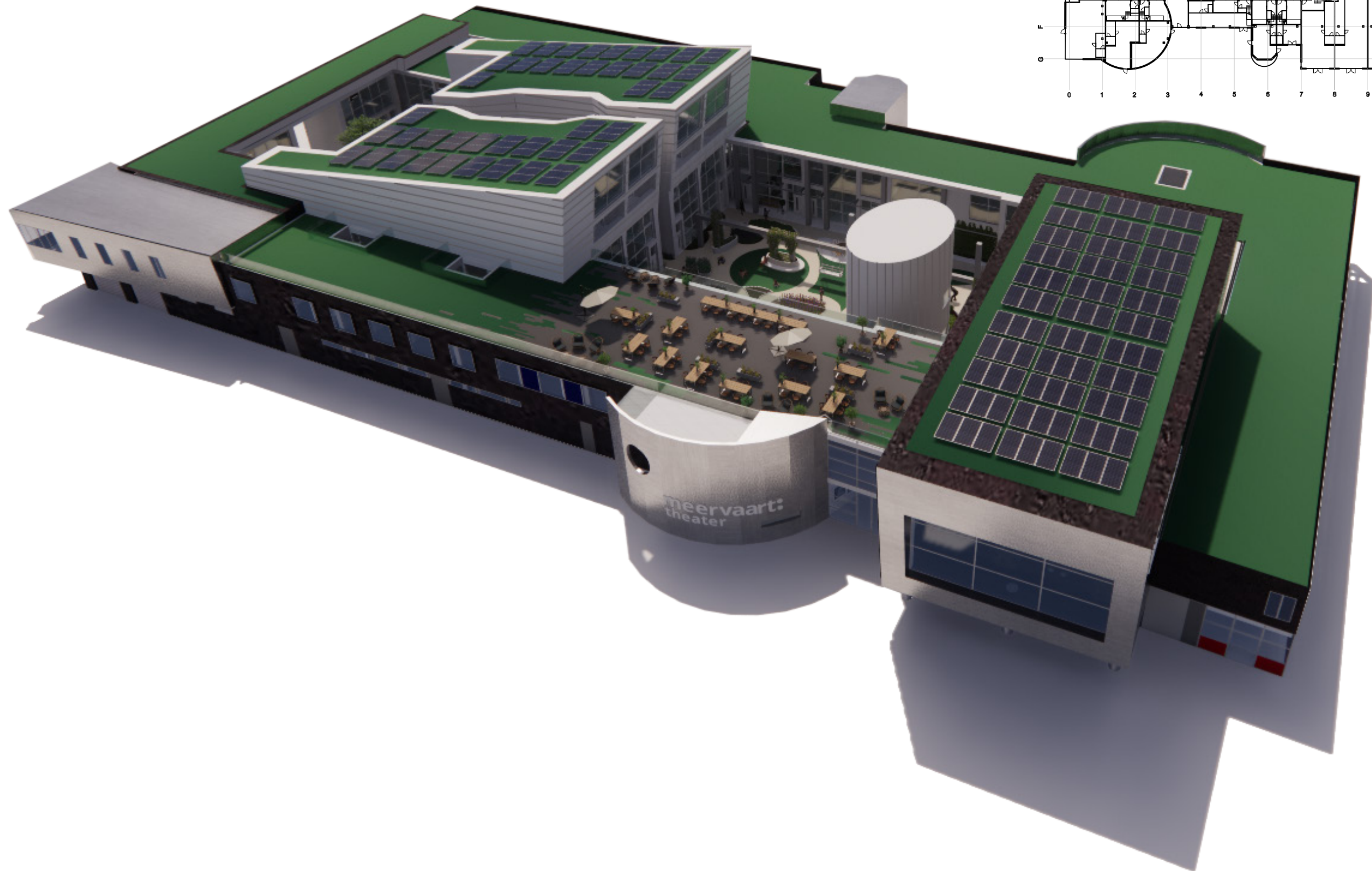
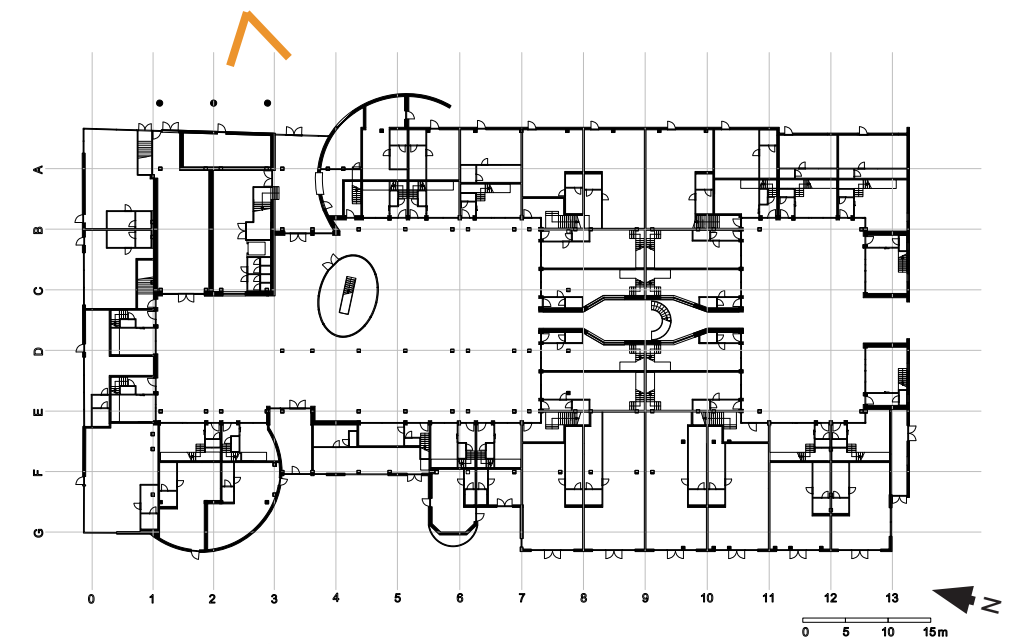
Services

Skin

Structure

Site

3D visualization of the building from the northeast



Spaceplan

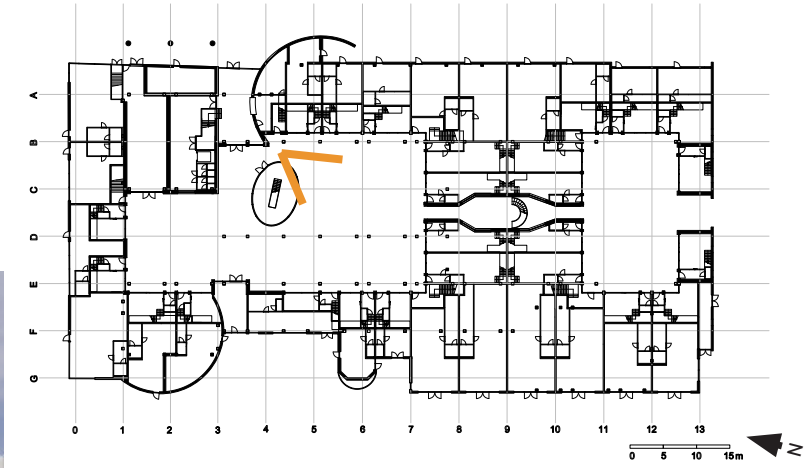
Services

Skin

Structure

Site

Subtraction of the roof



Spaceplan

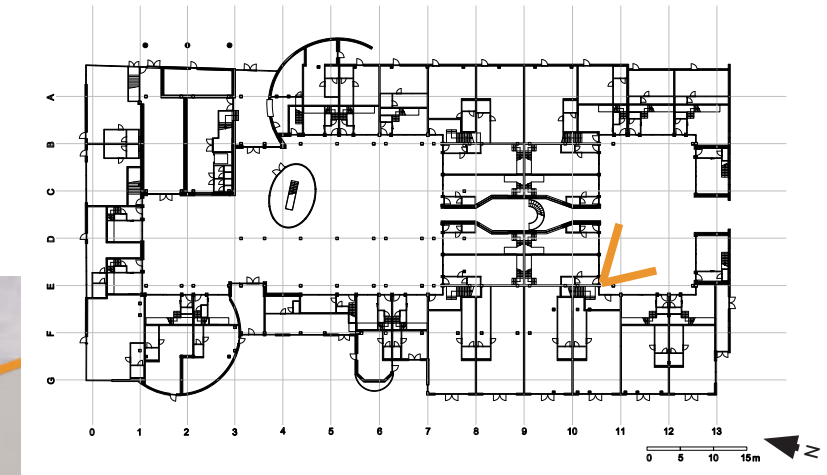
Services

Skin

Structure

Site

Subtraction of the roof



Spaceplan

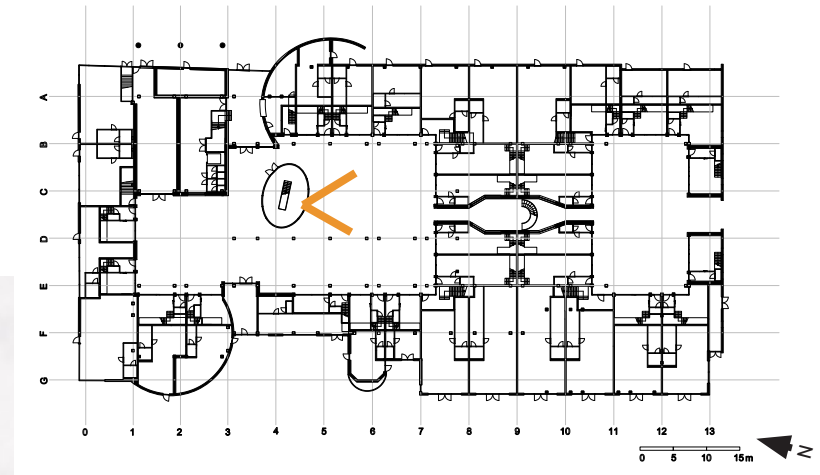
Services

Skin

Structure

Site

Keep the facade



Spaceplan

Services

Skin

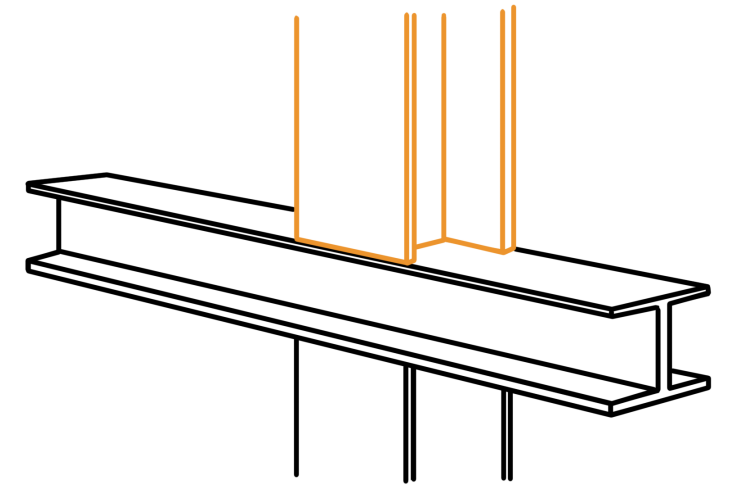
Structure

Site

Design starting points for the structure

Keep the **structure visible** where it was already visible and keep the structure **the same** much as possible.

- **Distinctive places** so remain visible.
- **The variable load** complies so the structure is kept



Spaceplan

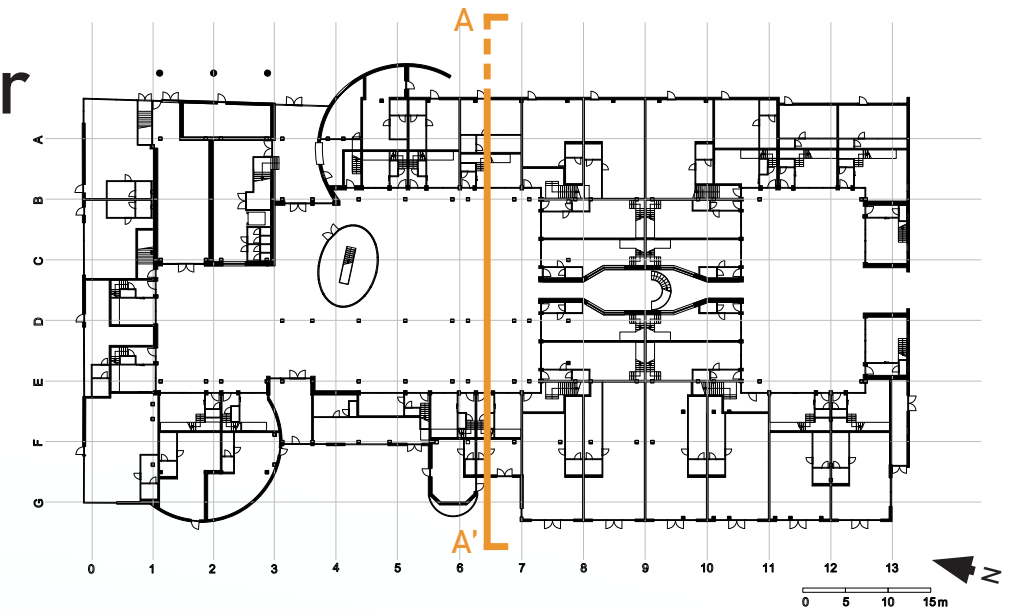
Services

Skin

Structure

Site

Cross section from the Slotterplas to the shopping center



Spaceplan

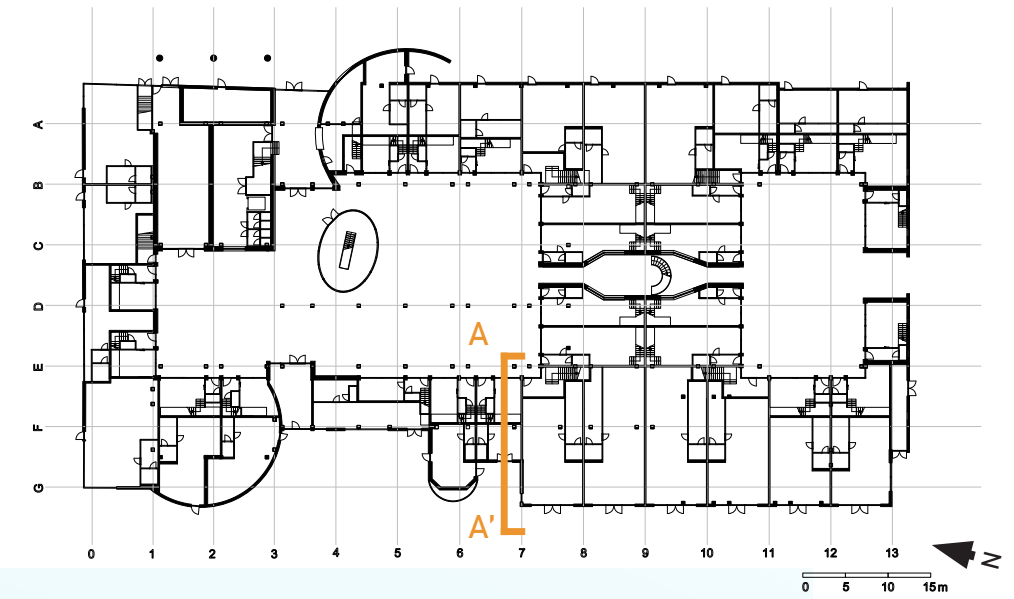
Services

Skin

Structure

Site

Making the load-bearing structure visible



Spaceplan

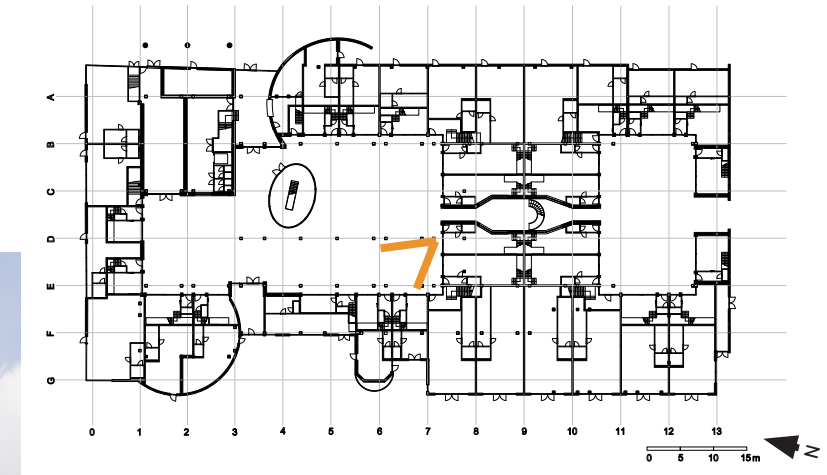
Services

Skin

Structure

Site

Keeping the load-bearing structure visible and usable



Spaceplan

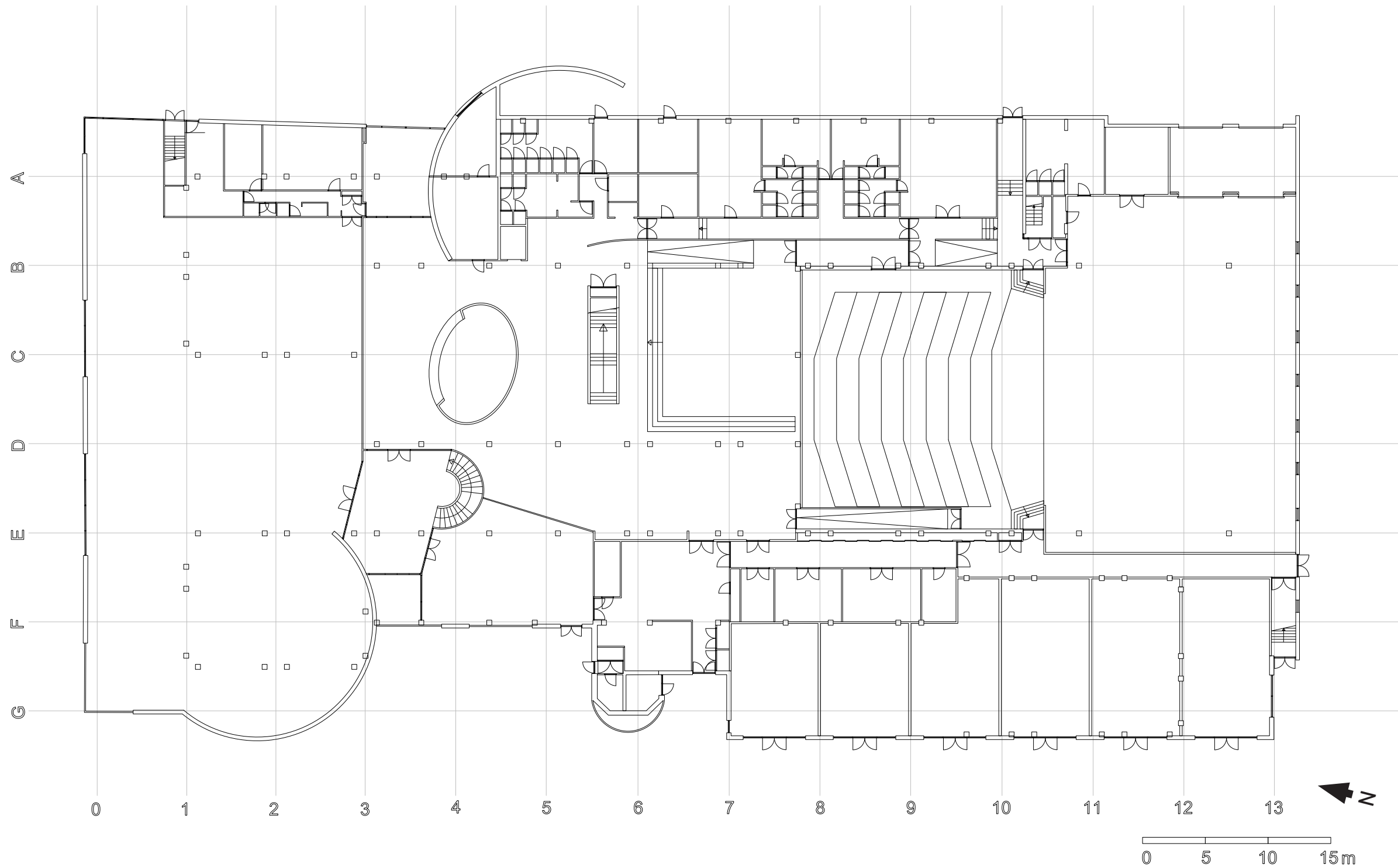
Services

Skin

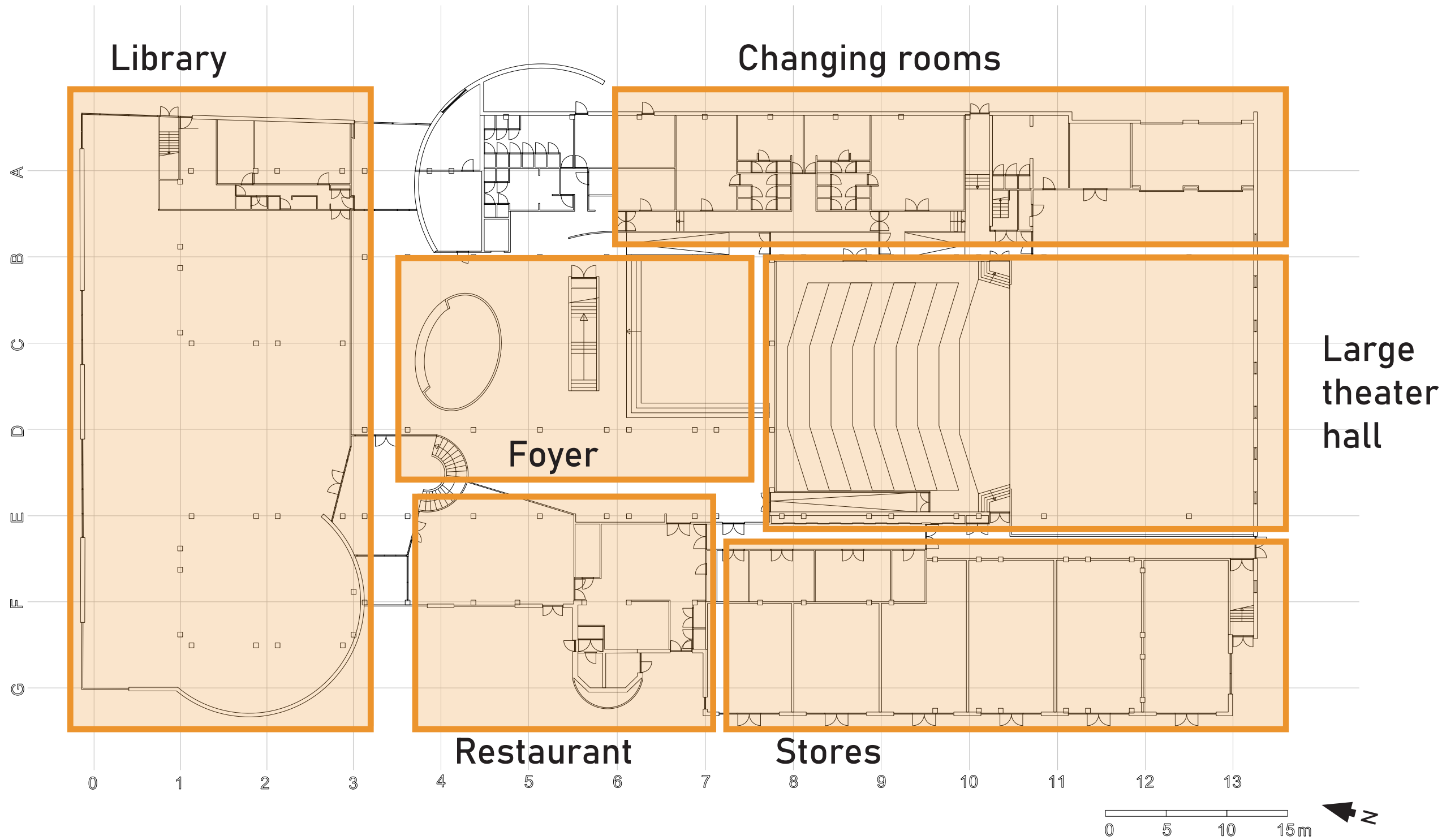
Structure

Site

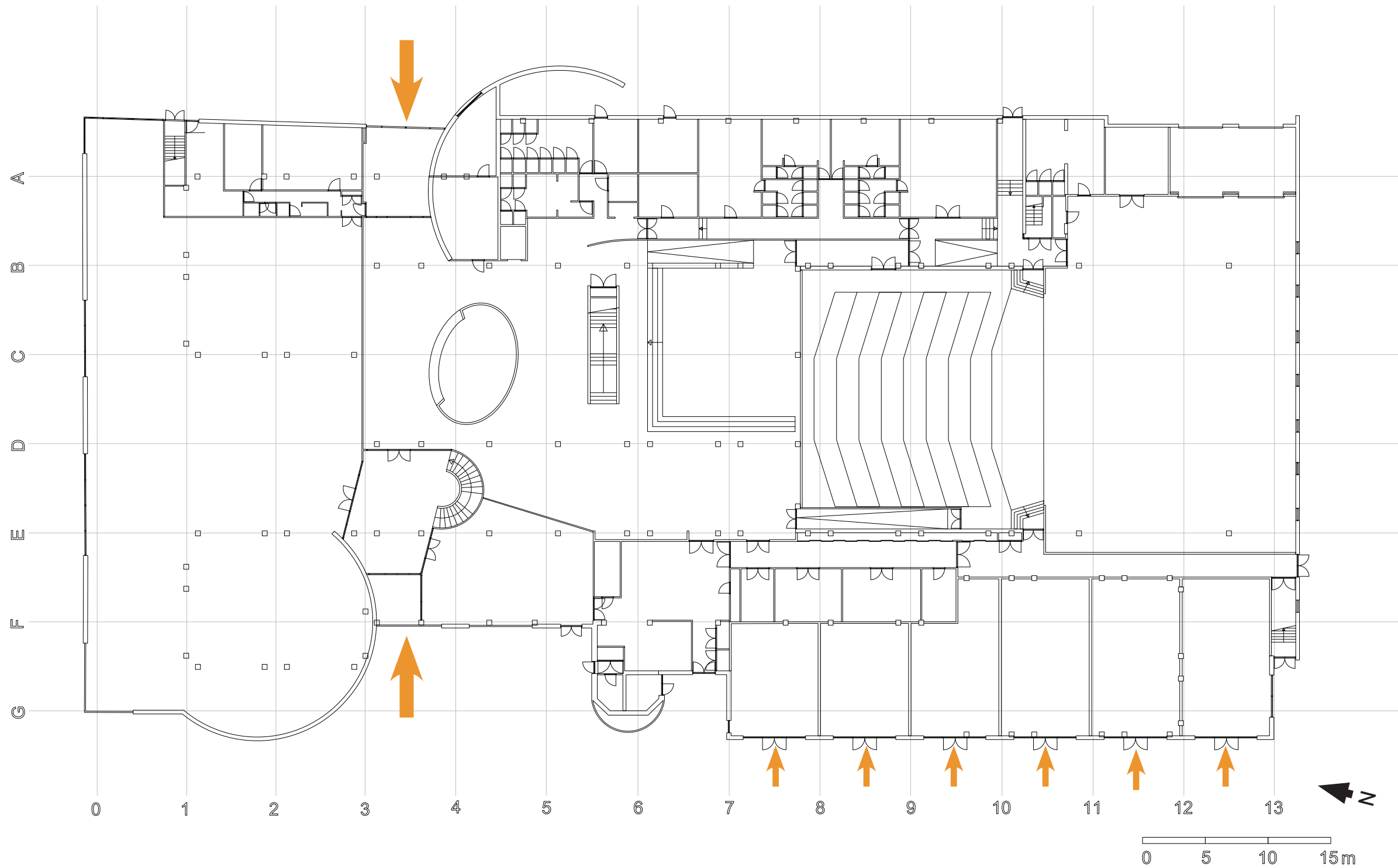
Current ground floor plan of the Meervaart



Current ground floor plan of the Meervaart, with function designation



Current ground floor plan of the Meervaart, with entrance designation



Spaceplan

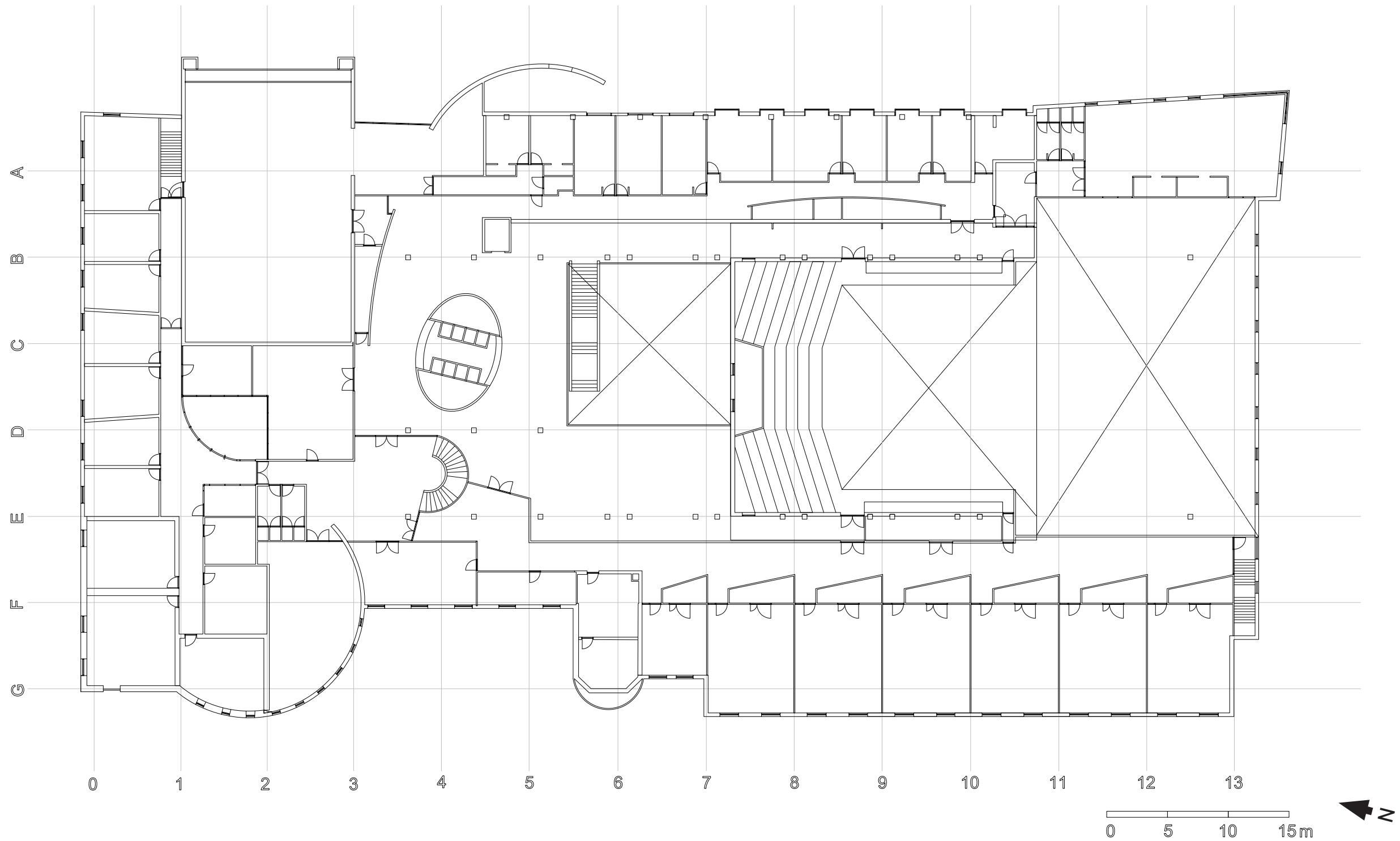
Services

Skin

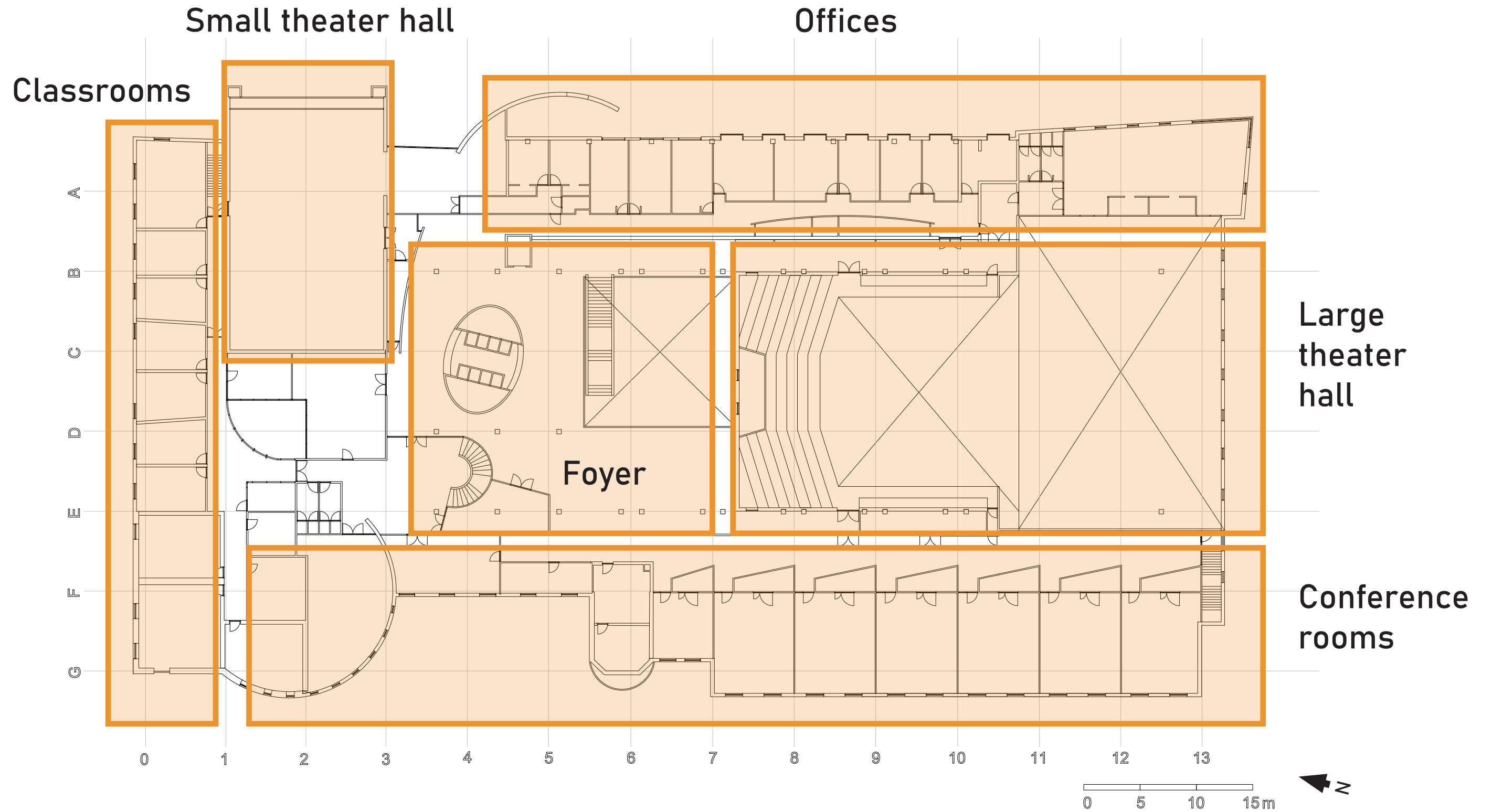
Structure

Site

Current first floor plan of the Meervaart



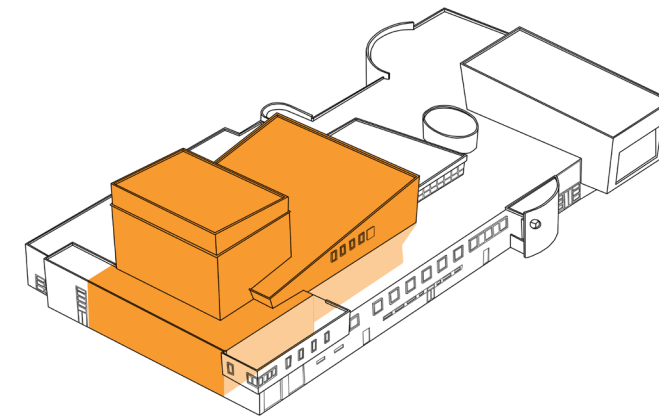
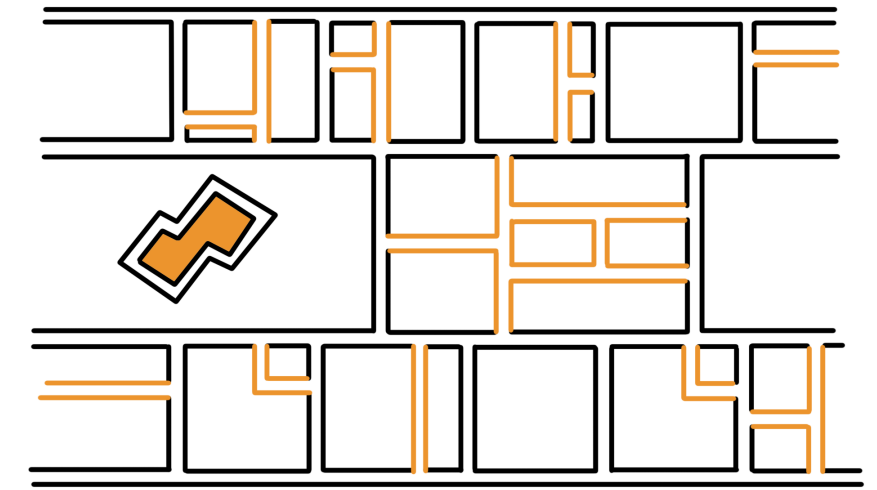
Current first floor plan of the Meervaart, with function designation



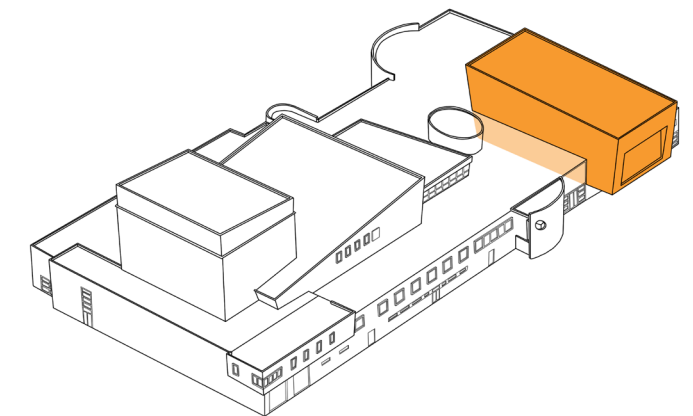
Design starting points for the spaceplan

The space plan of the building should be kept the same in main plan as much as possible, where additional walls and floors can be added. It is added that a distinctive area of the building's floor plan should remain unchanged.

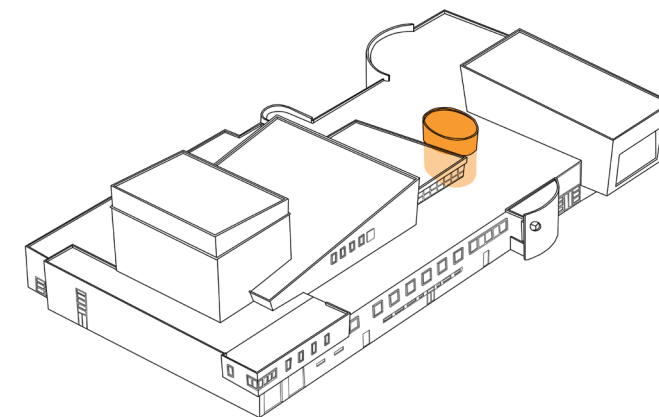
- Clear main plan of 7,2 meters
- Distinctive shapes
 - the small theater hall
 - the ellips shape
 - the big open foyer
 - the seating area
 - the open theater stage



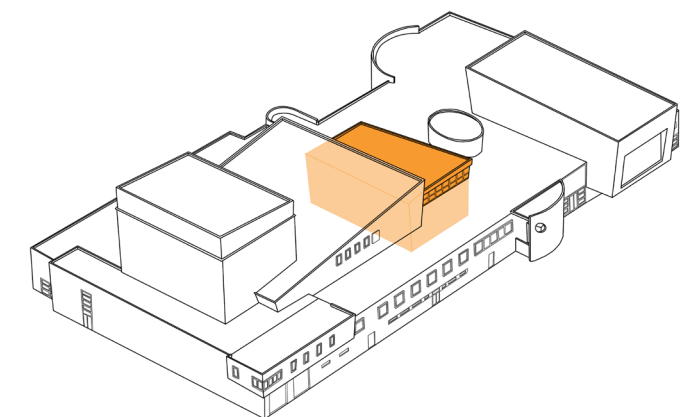
big theater hall



small theater hall

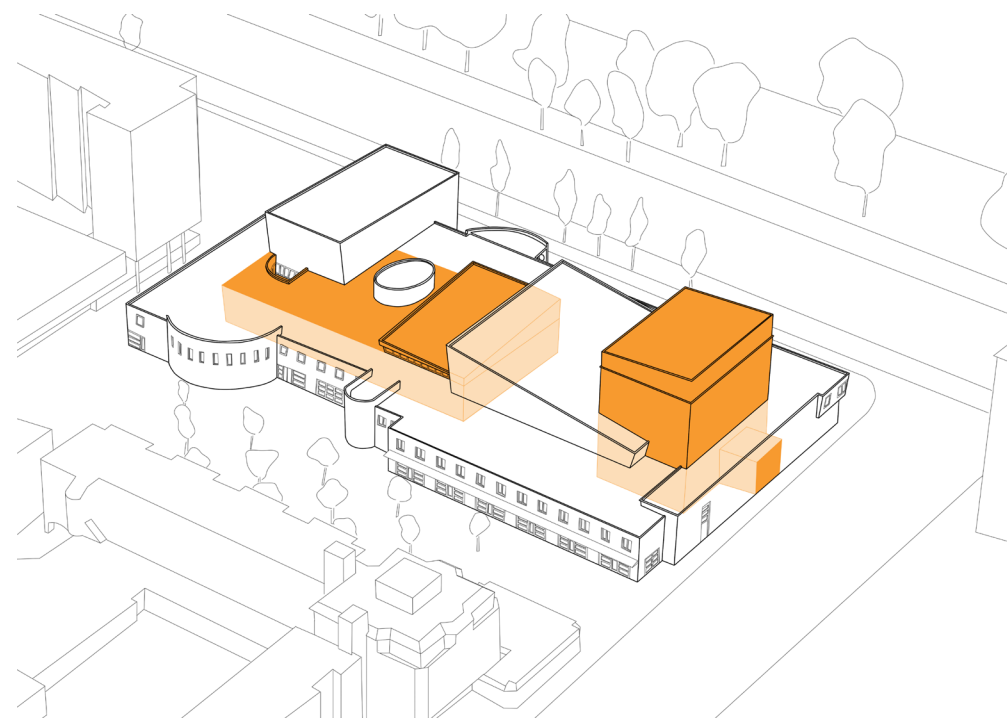


ellips shape



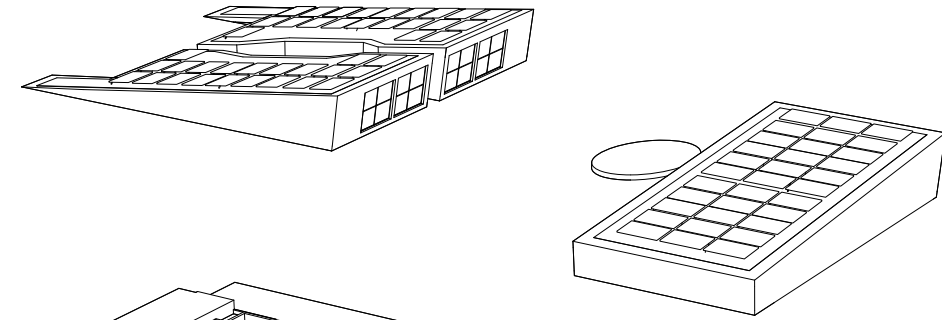
foyer

Layers within the space plan of the new Meervaart

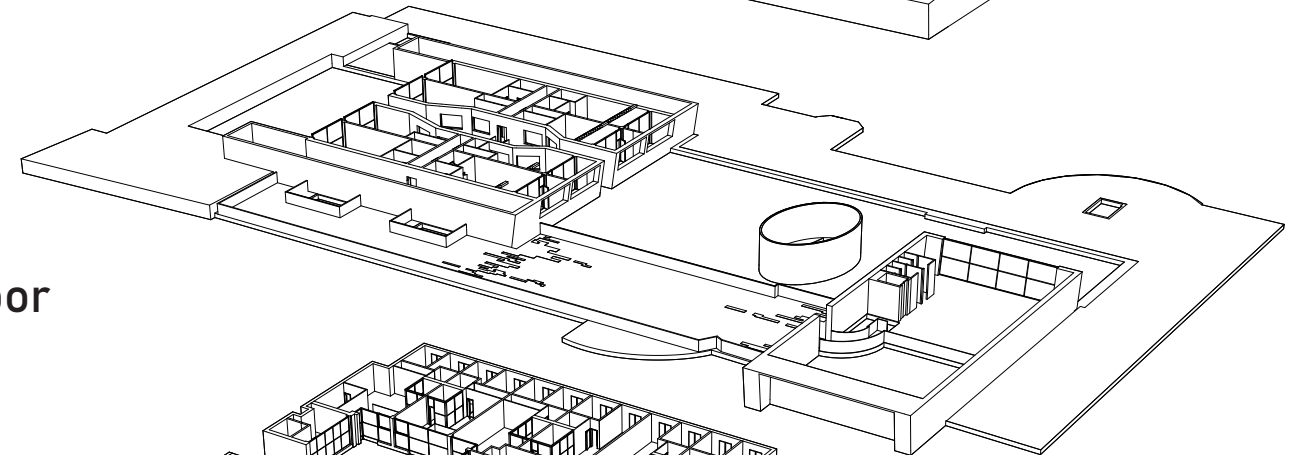


Subtracted parts
of the building

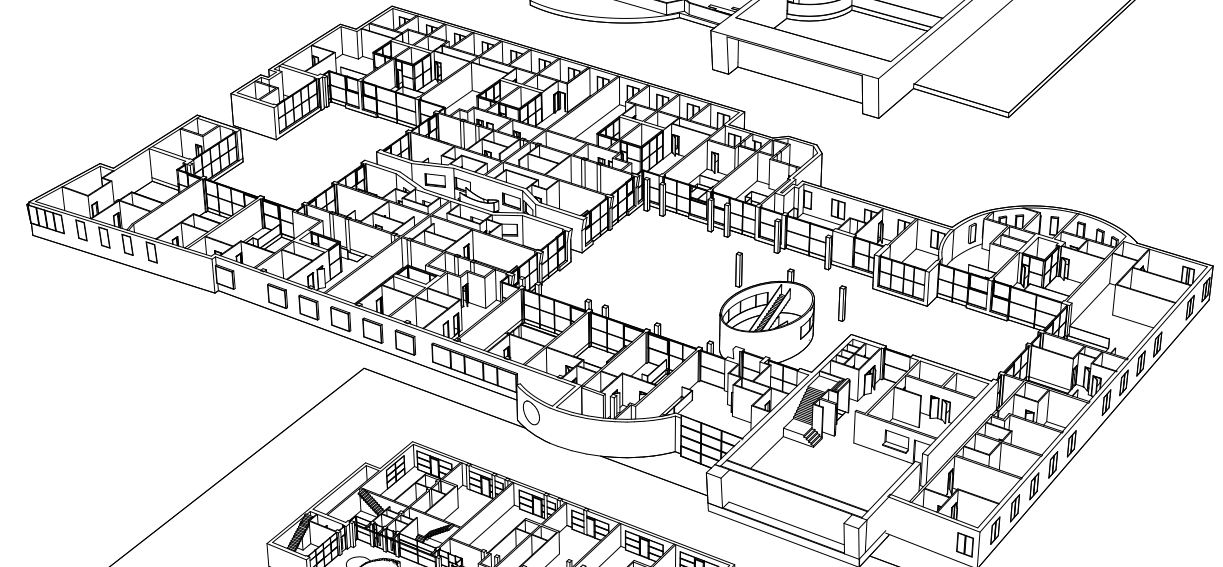
Third floor



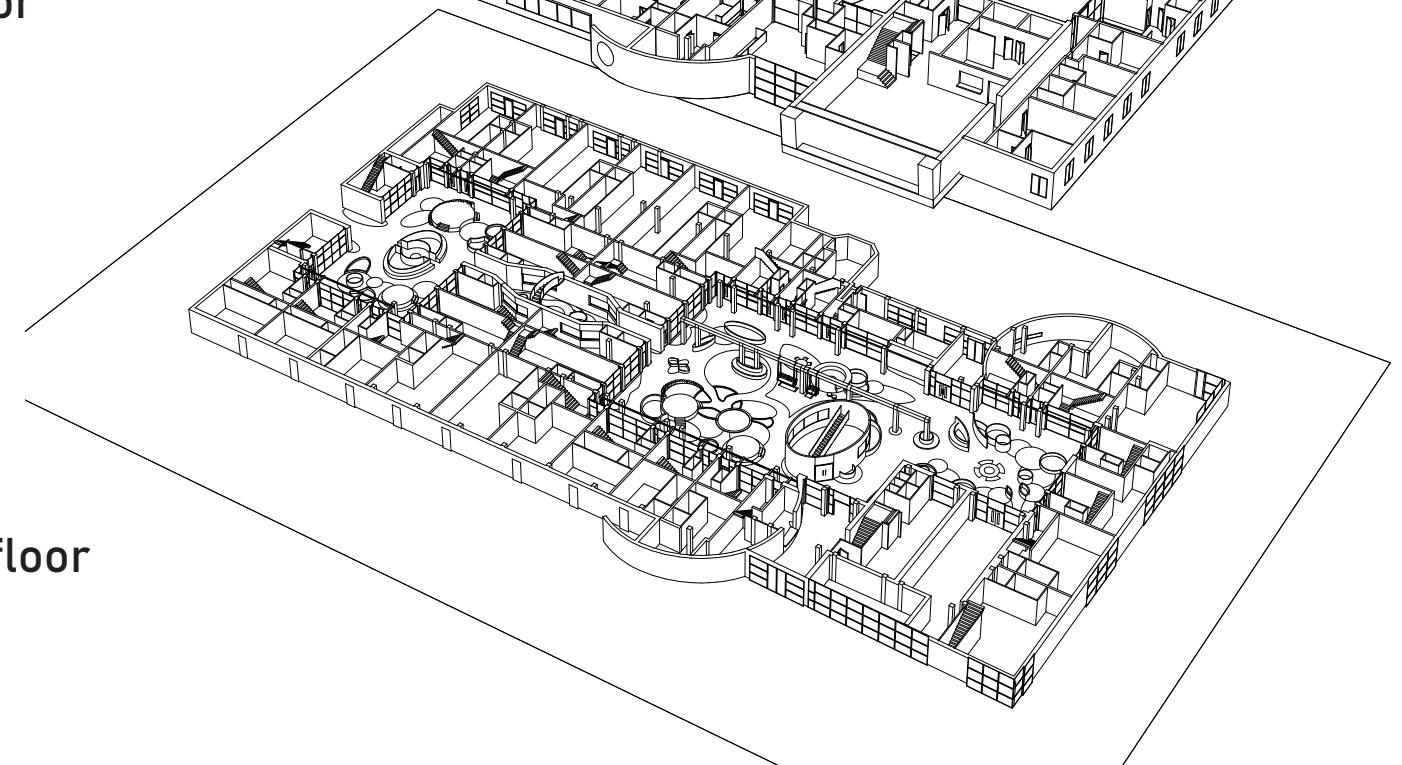
Second floor



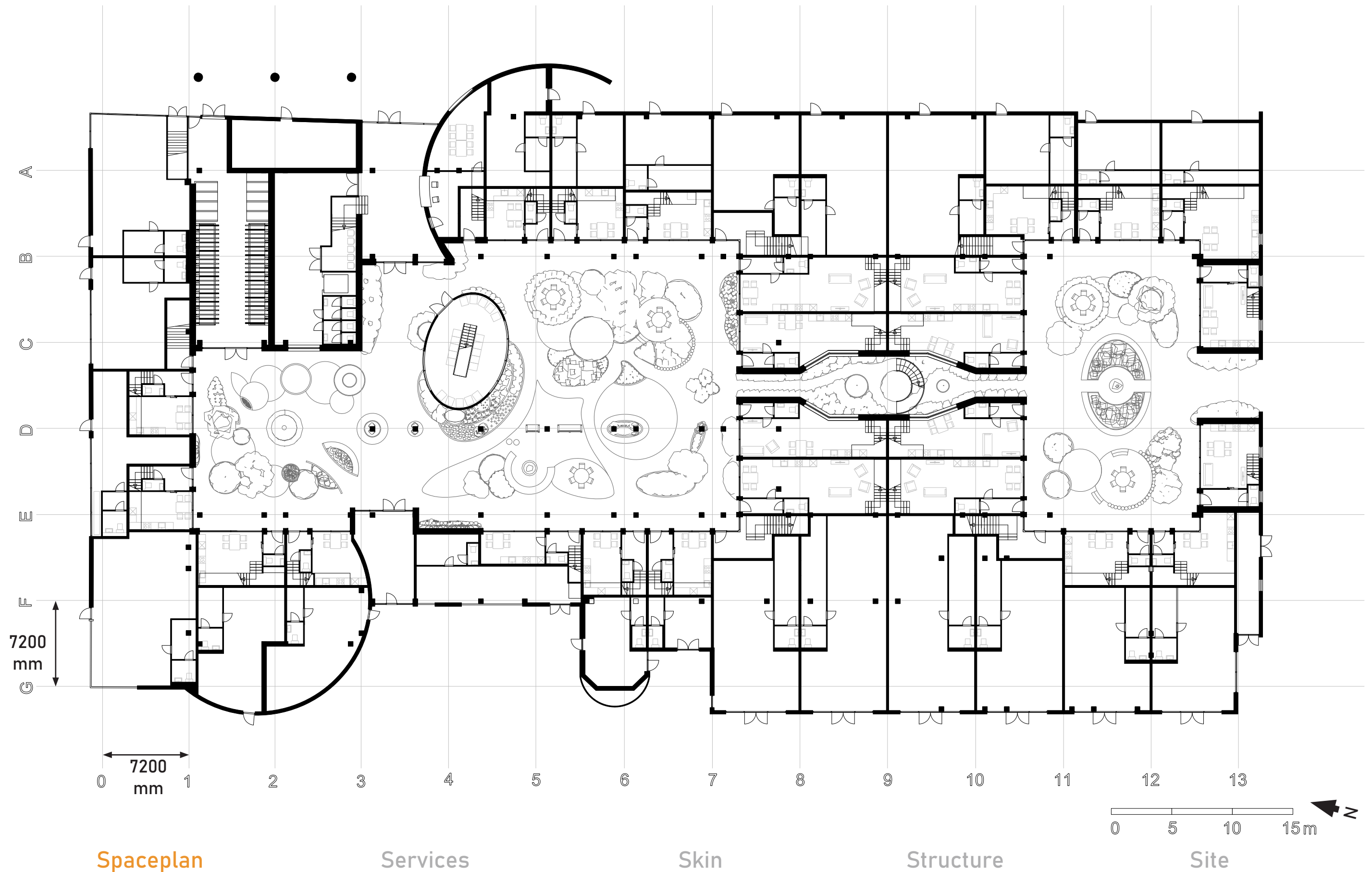
First floor



Ground floor

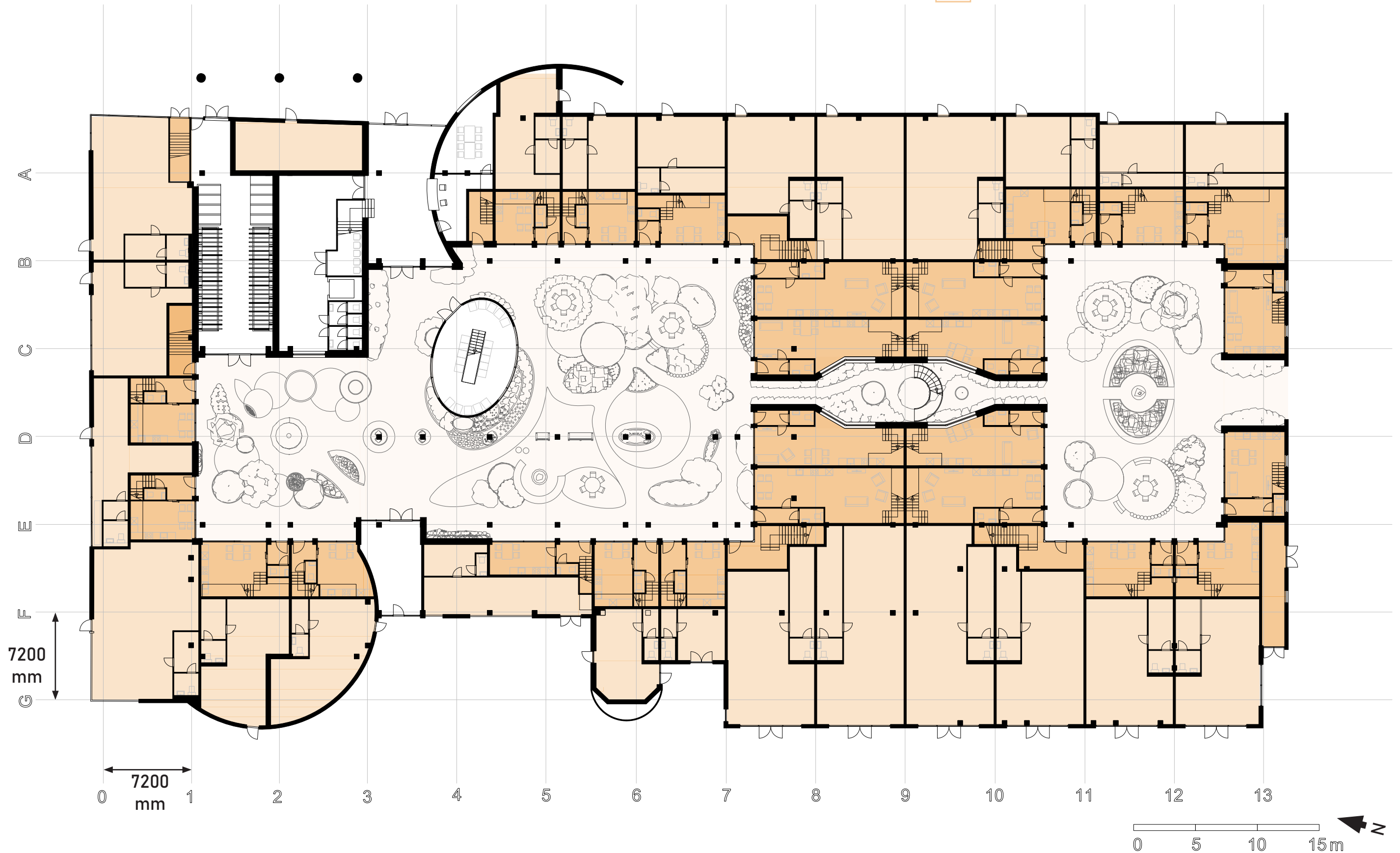


New ground floor plan of the Meervaart



New ground floor plan of the Meervaart

- Apartment
- Shops
- Communal garden



Spaceplan

Services

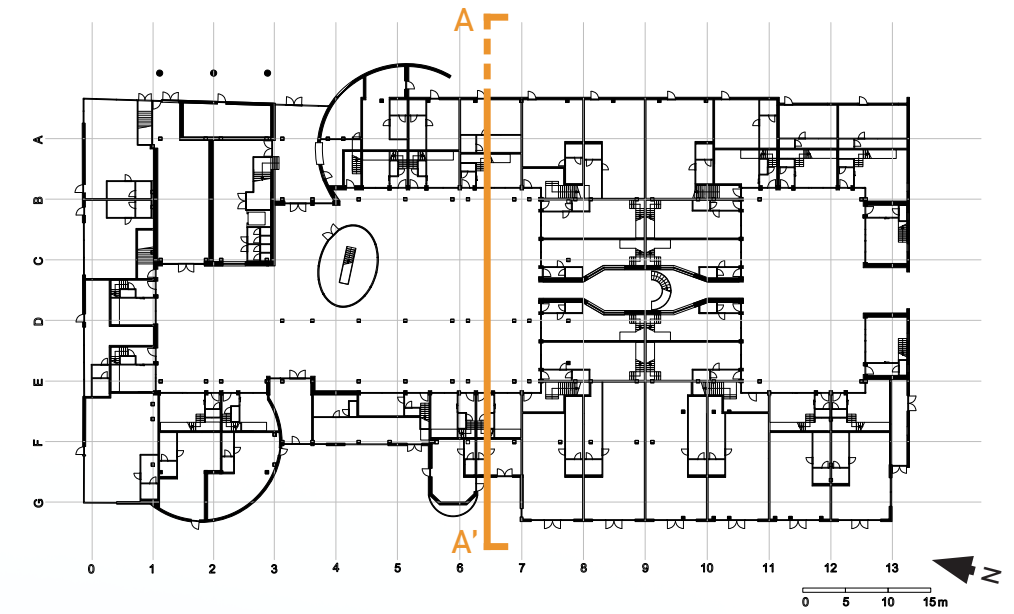
Skin

Structure

Site

Connection between the apartments and the stores

- Apartments
- Shops



Spaceplan



Services

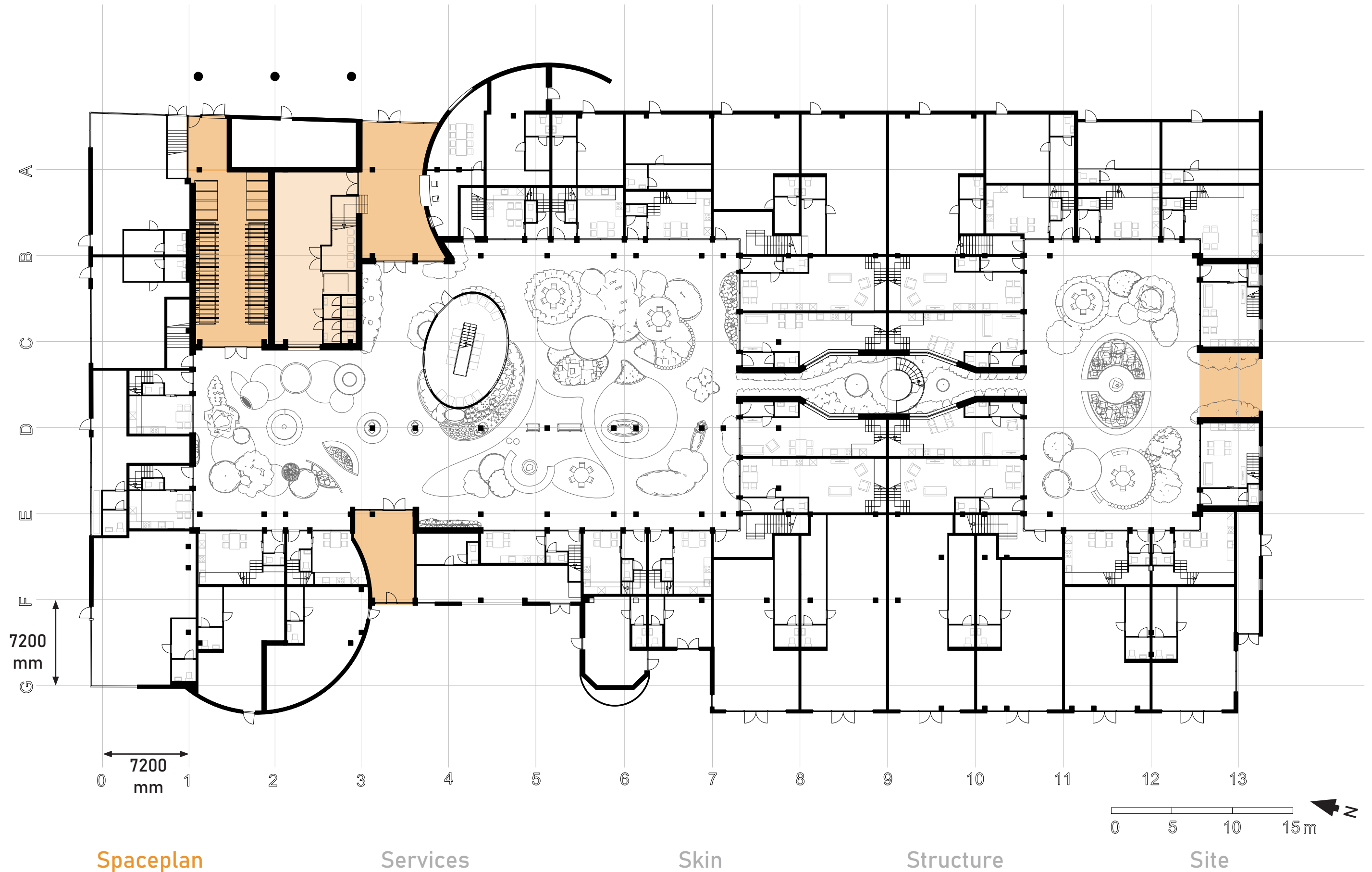
Skin

Structure

Site

New ground floor plan of the Meervaart

-  Entrances to the communal garden
-  Entrance to the restaurant



Spaceplan

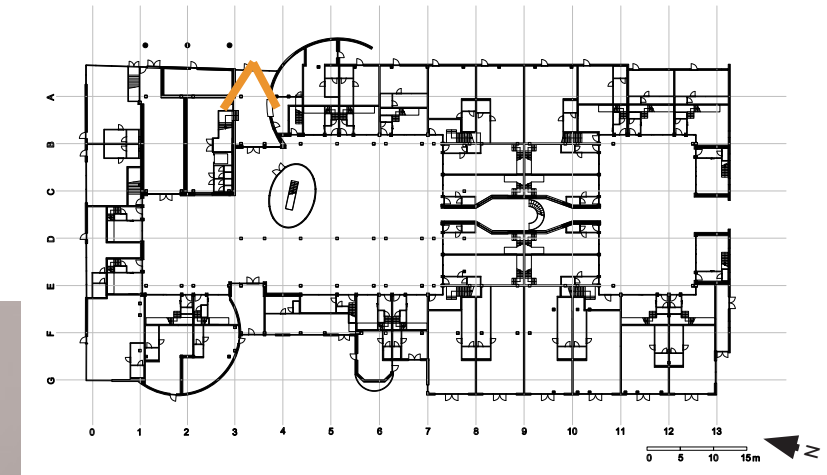
Services

Skin

Structure

Site

Keeping of a distinctive building entrance



Spaceplan




Services

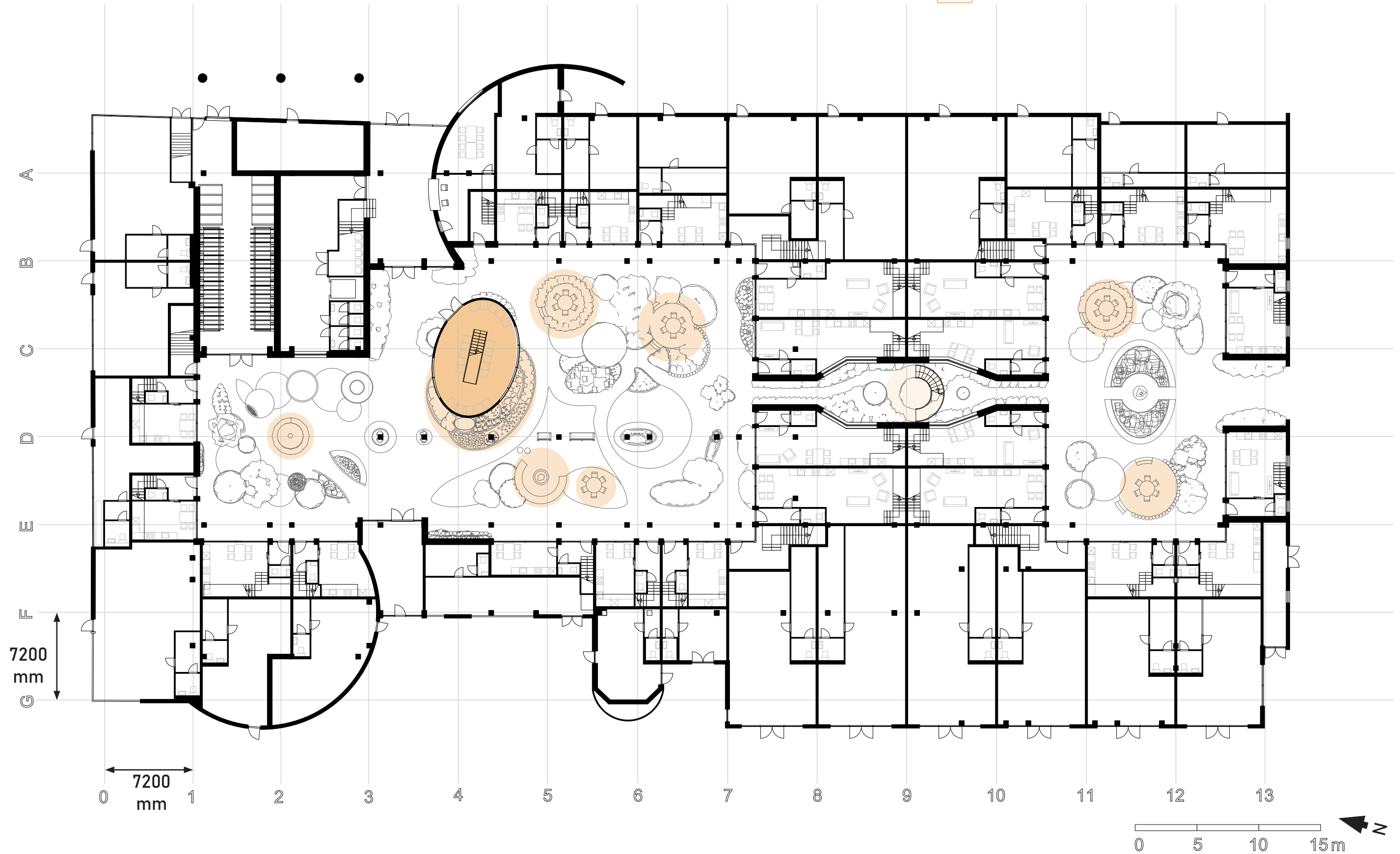
Skin

Structure

Site

New ground floor plan of the Meervaart

-  Distinctive shape, communal laundry room
-  Inspired shapes, the garden
-  Inspired shape, the stairs



Spaceplan

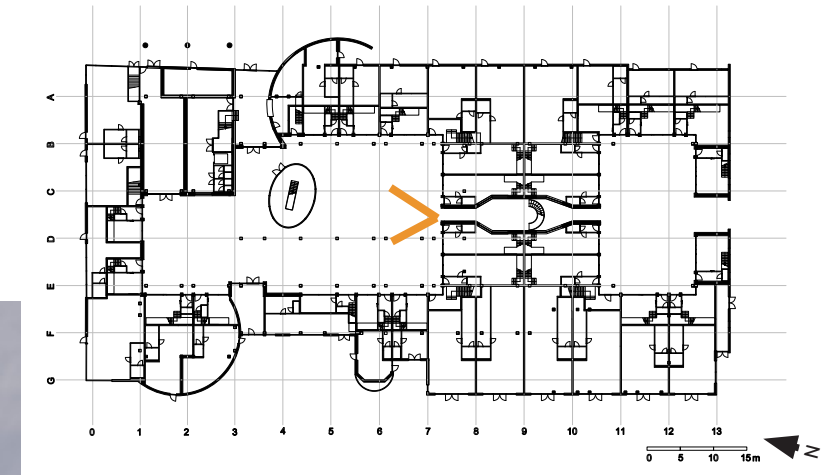
Services

Skin

Structure

Site

Keeping of a distinctive building shape



Spaceplan

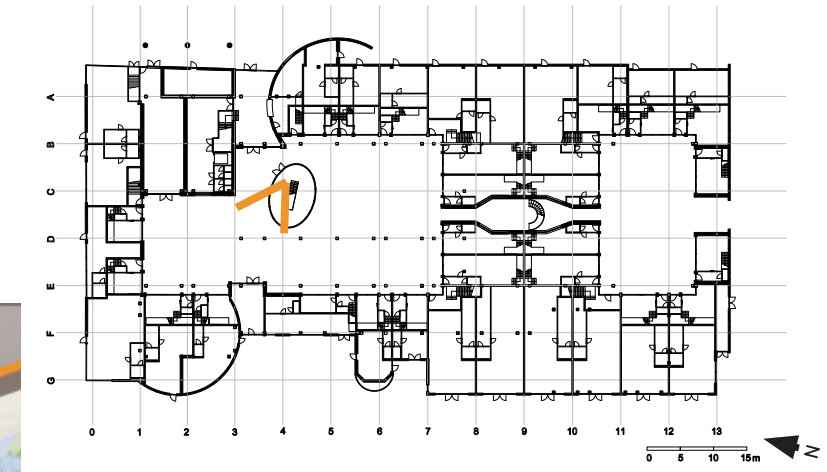
Services

Skin

Structure

Site

Keeping of a distinctive building shape



Spaceplan

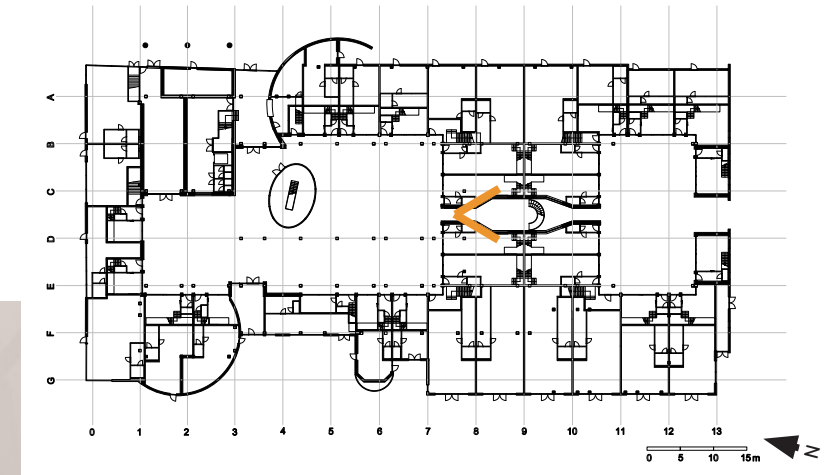
Services

Skin

Structure

Site

Adding a inspired building shape



Spaceplan

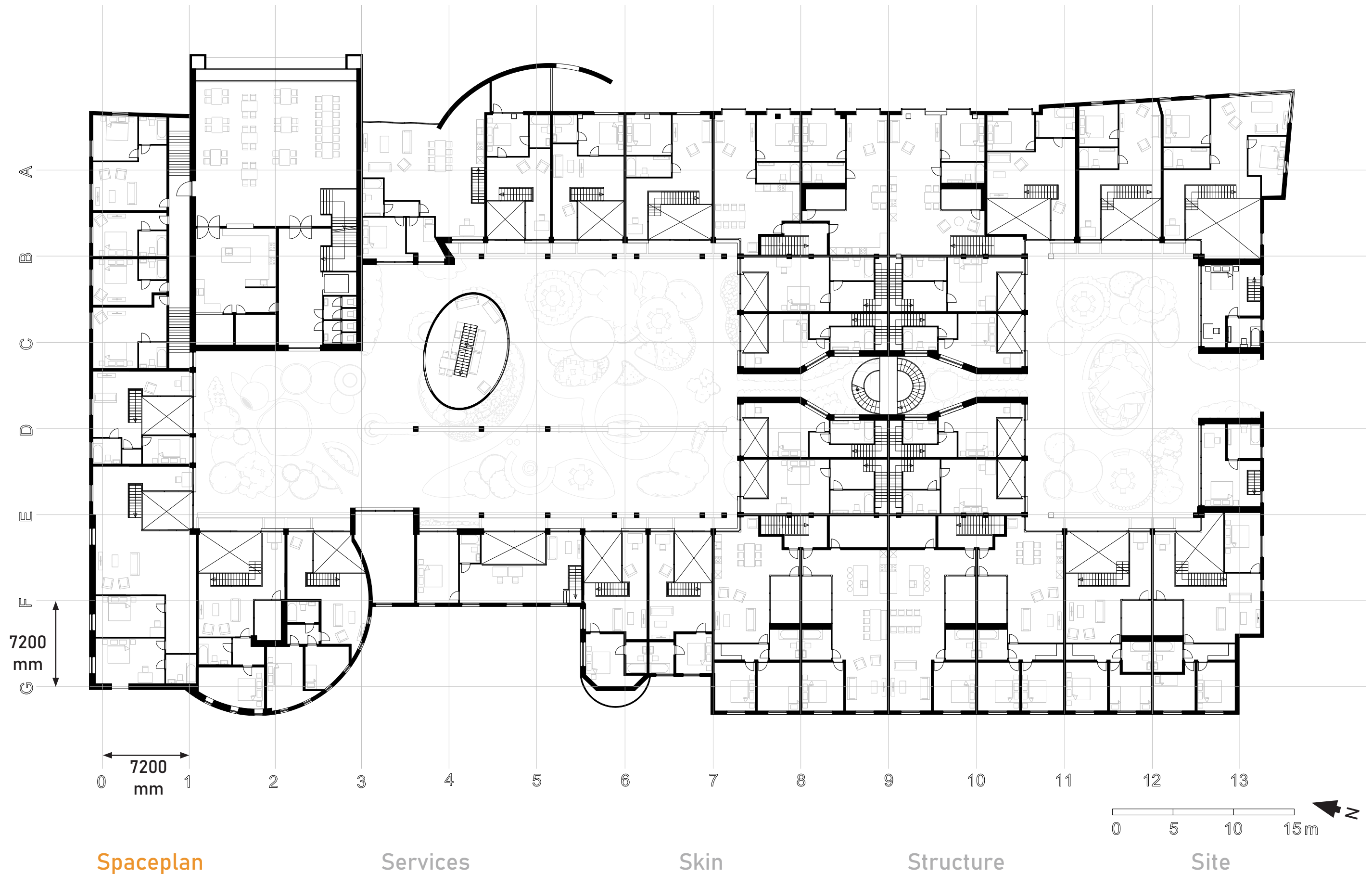
Services

Skin

Structure

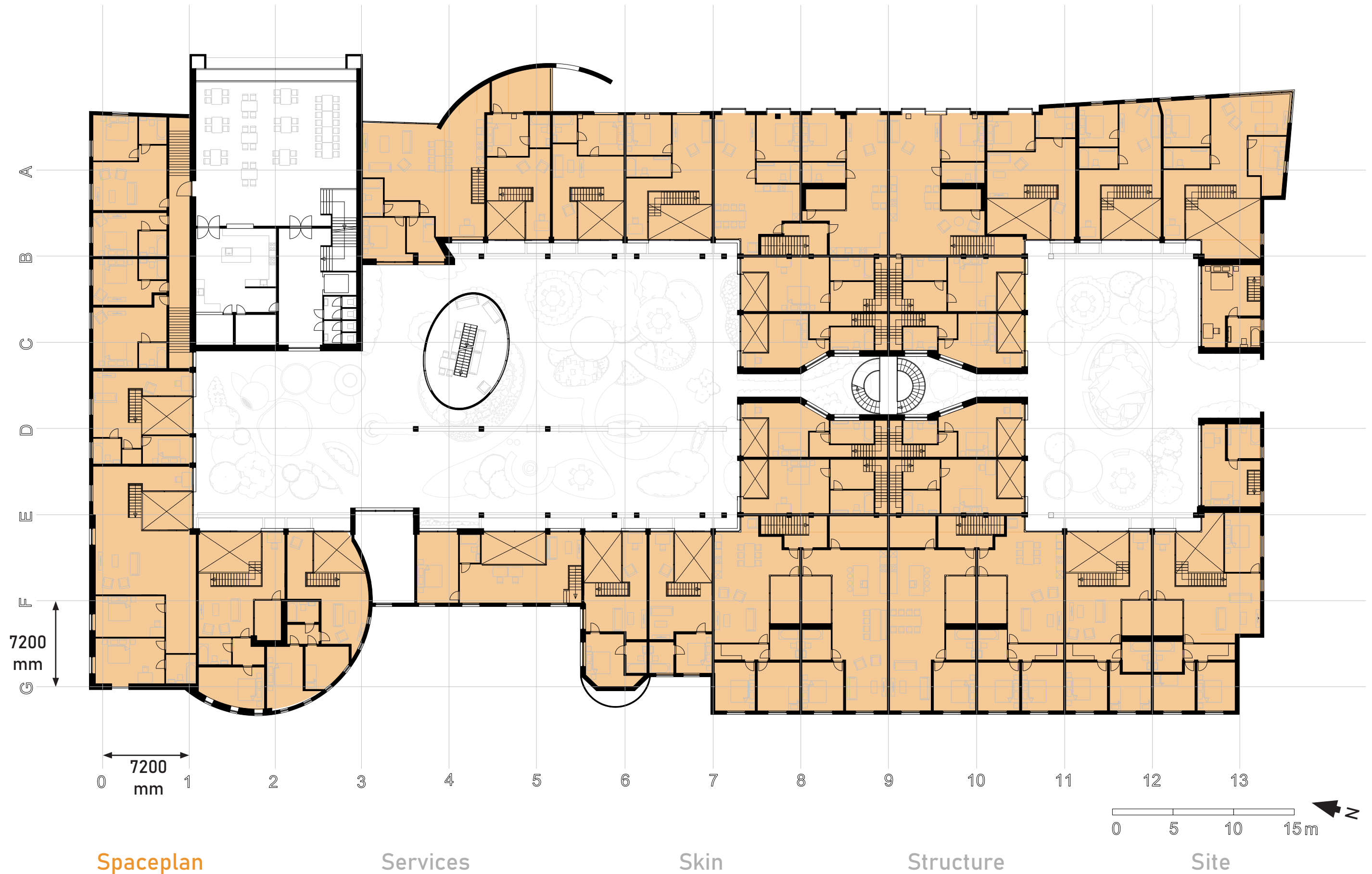
Site

New first floor floor plan of the Meervaart



New first floor floor plan of the Meervaart

Apartments



Spaceplan

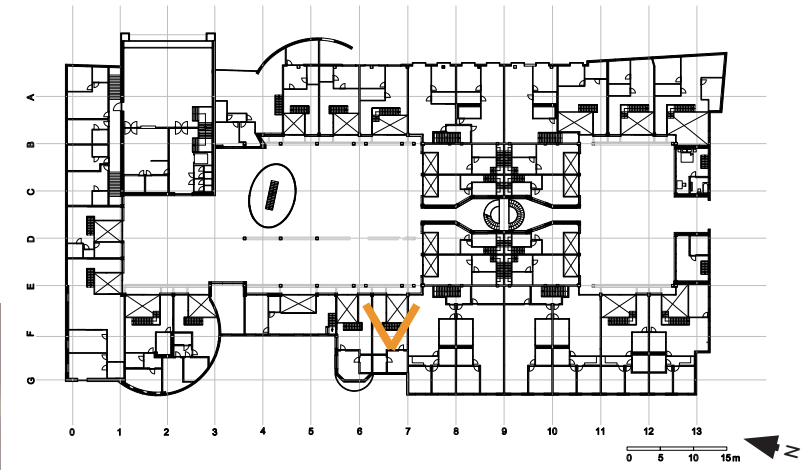
Services

Skin

Structure

Site

Keeping the main space plan



Spaceplan

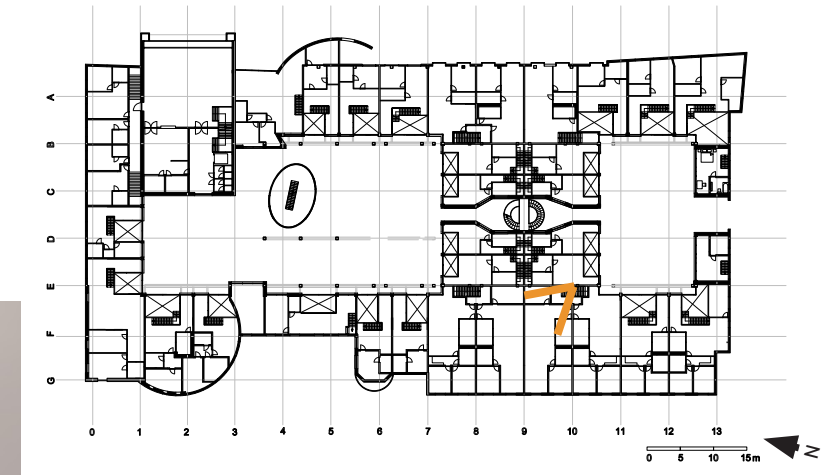
Services

Skin

Structure

Site

Keeping the main space plan



Spaceplan

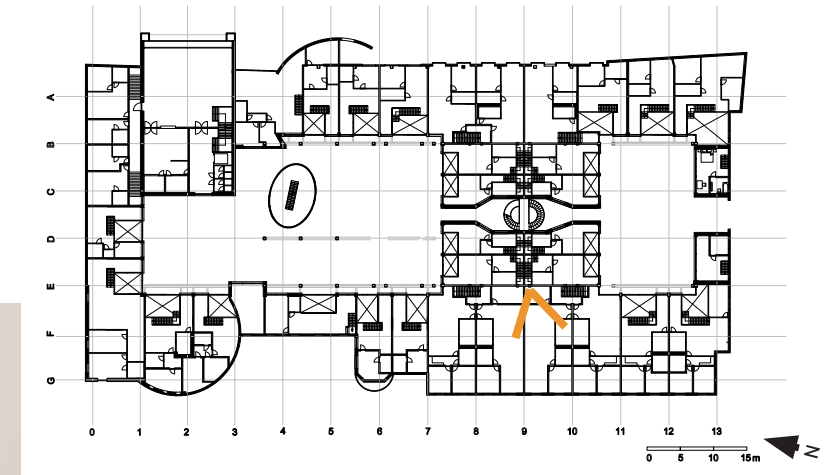
Services

Skin

Structure

Site

Keeping the main space plan



Spaceplan



Services

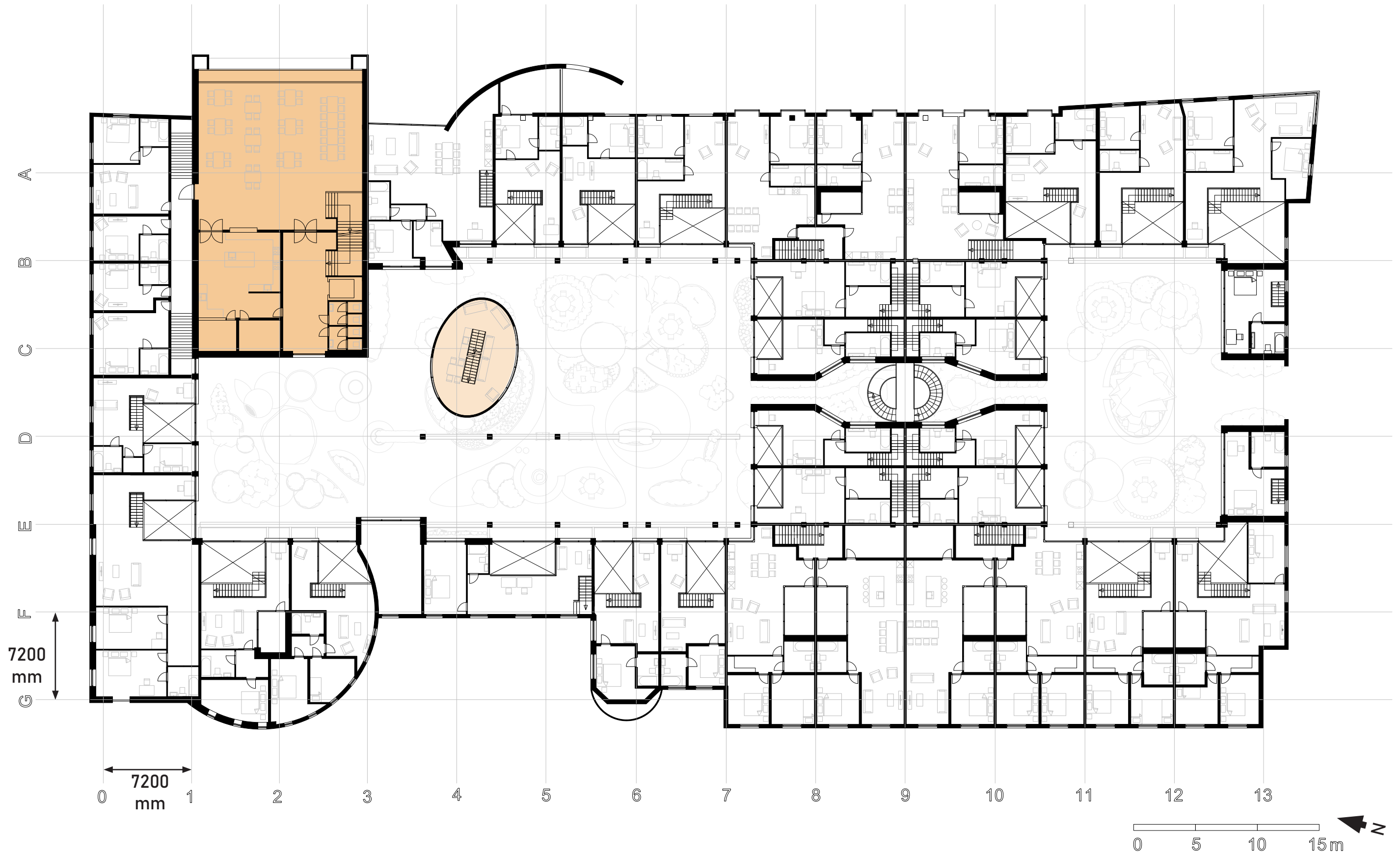
Skin

Structure

Site

New first floor floor plan of the Meervaart

-  Restaurant
-  Communal coffee spot



Spaceplan

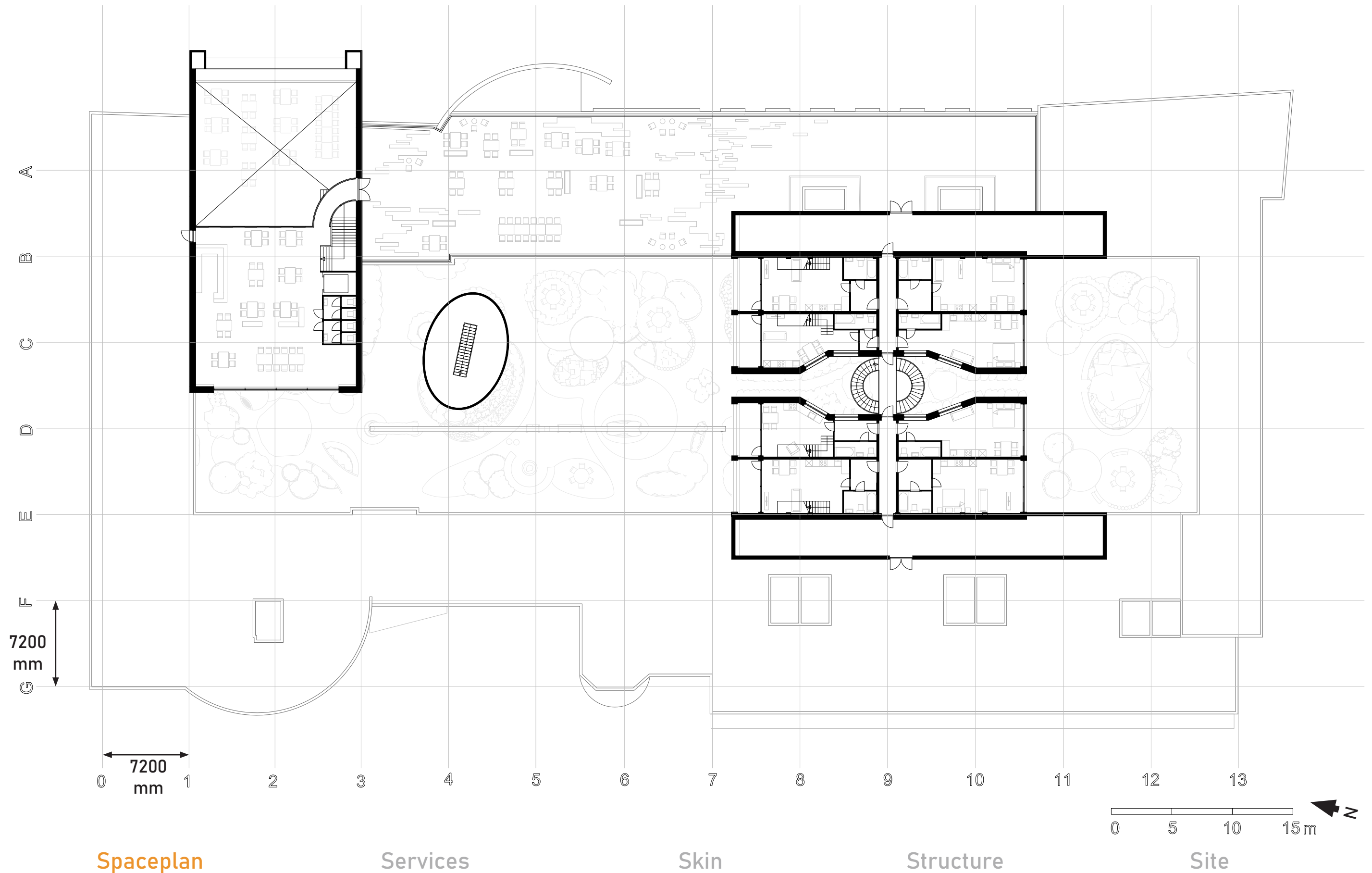
Services

Skin

Structure

Site

New second floor floor plan of the Meervaart



Spaceplan

Services

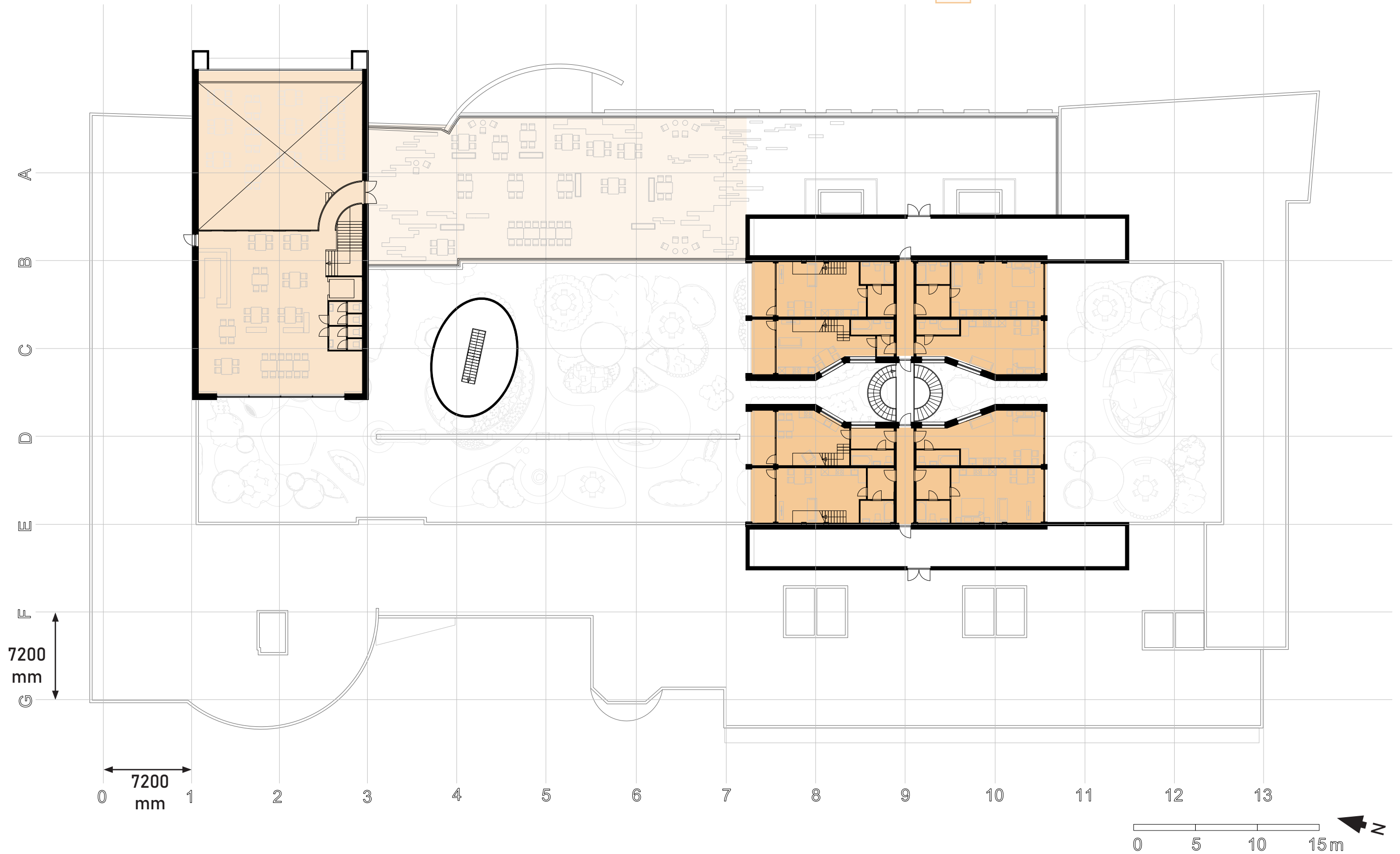
Skin

Structure

Site

New second floor floor plan of the Meervaart

- Apartment
- Restaurant
- Restaurant terrace



Spaceplan

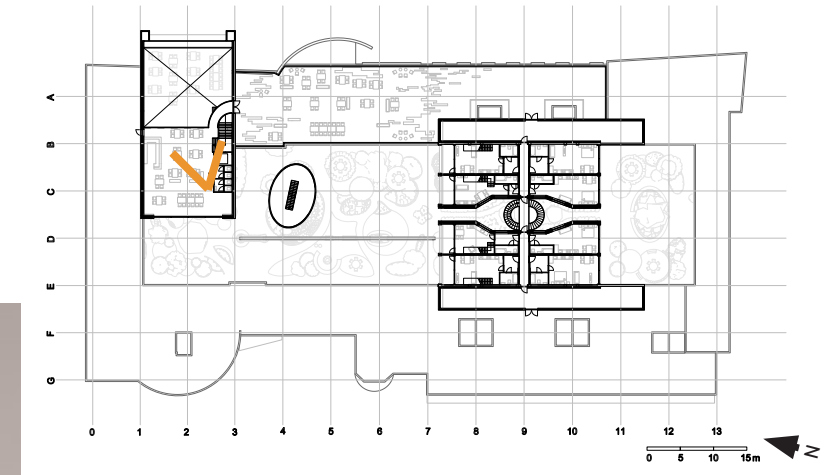
Services

Skin

Structure

Site

Keeping the main space plan



Spaceplan

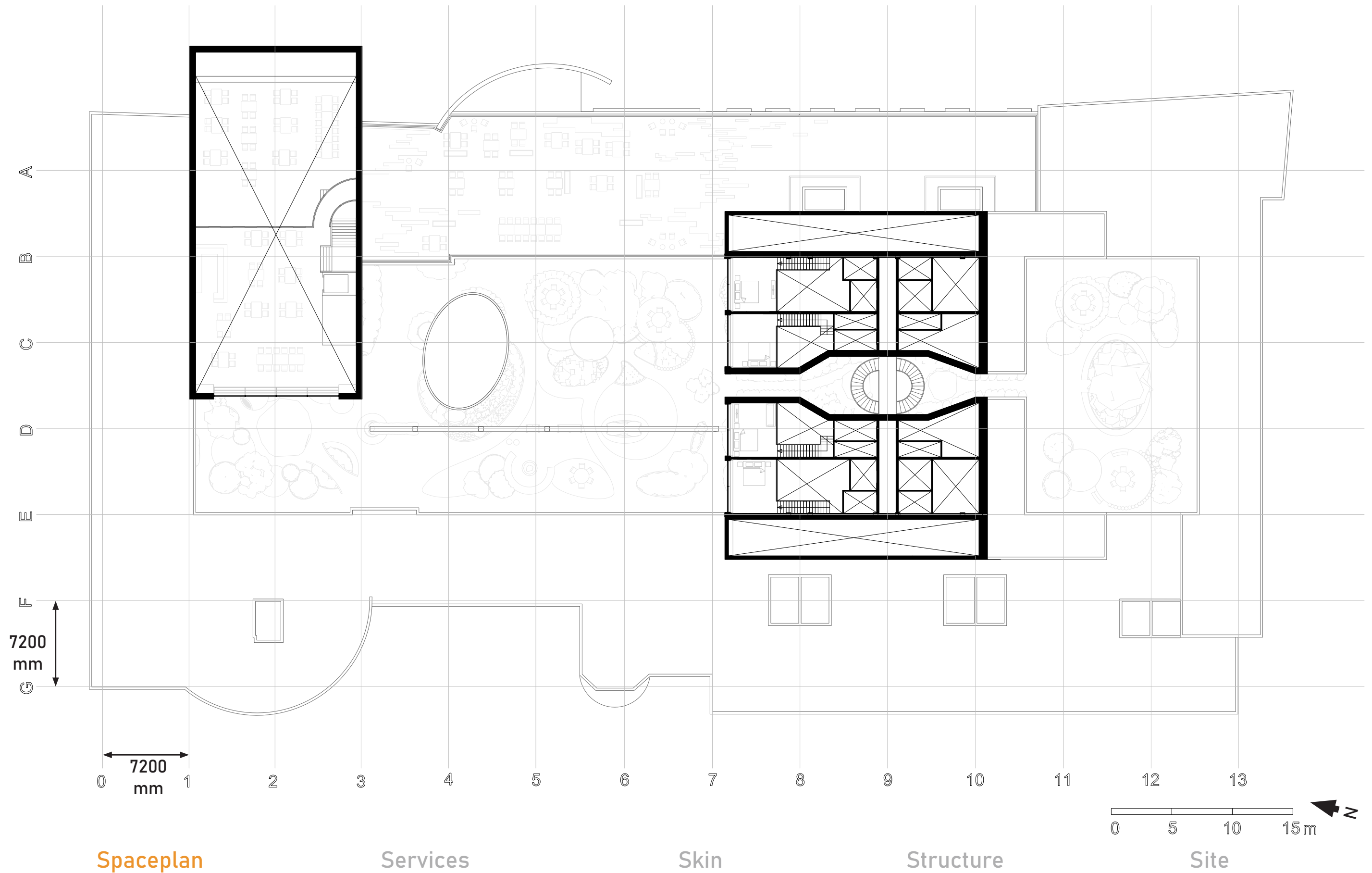
Services

Skin

Structure

Site

New third floor floor plan of the Meervaart



Spaceplan

Services

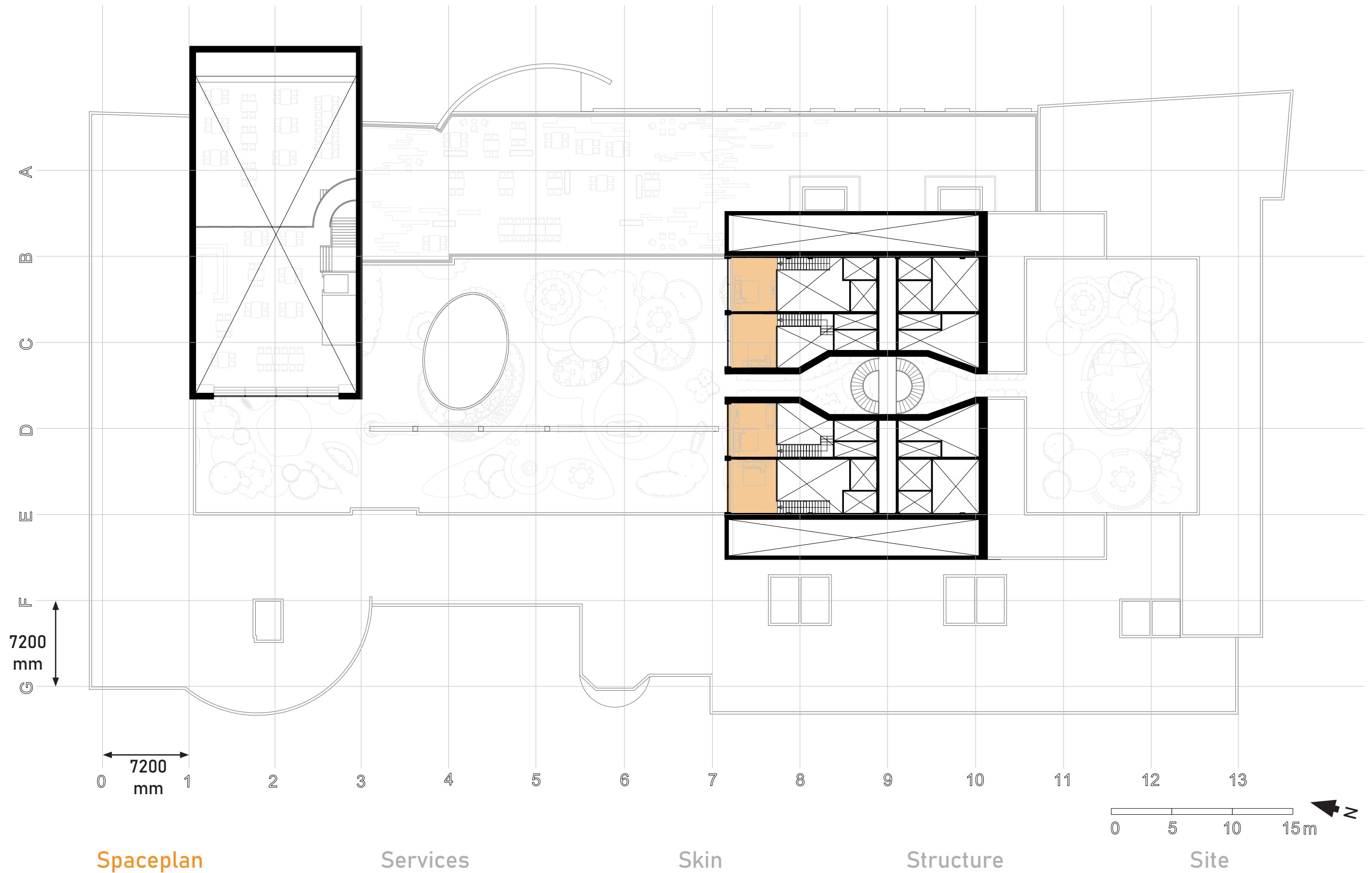
Skin

Structure

Site

New third floor floor plan of the Meervaart

Apartments



Spaceplan

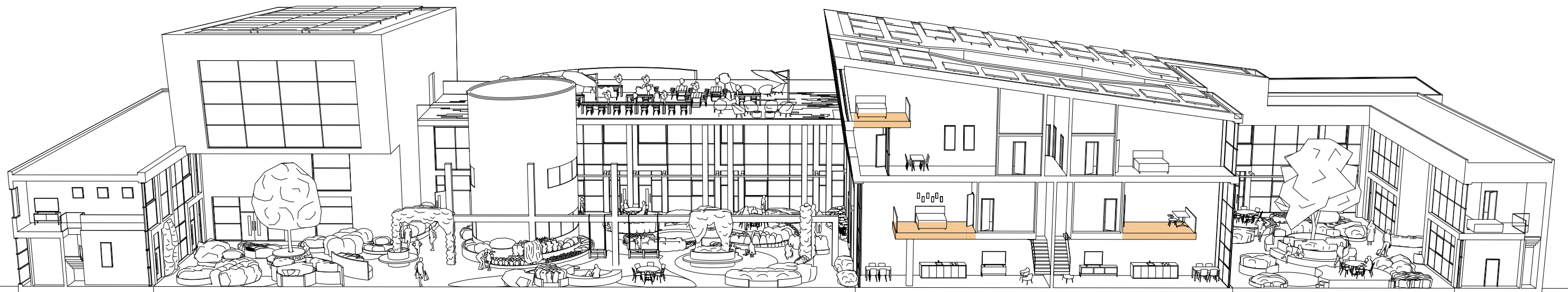
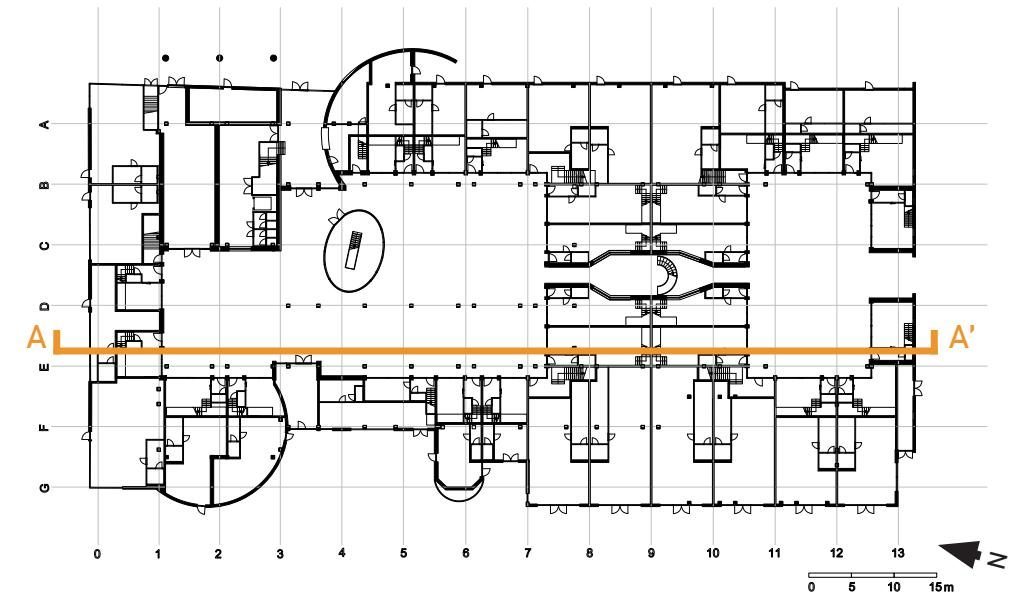
Services

Skin

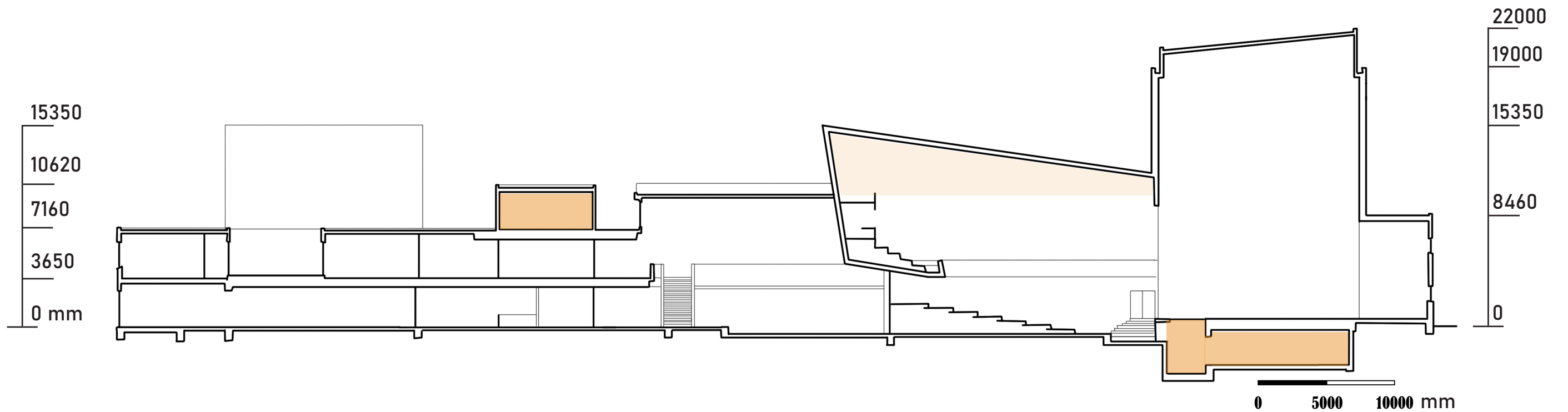
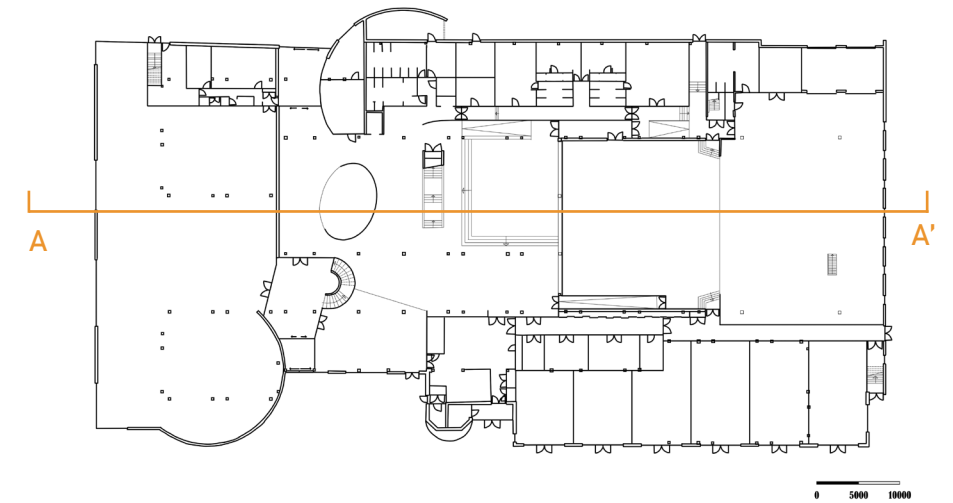
Structure

Site

Mezzanine and maisonette dwellings



Cross section with the services of the current Meervaart



Spaceplan

Services

Skin

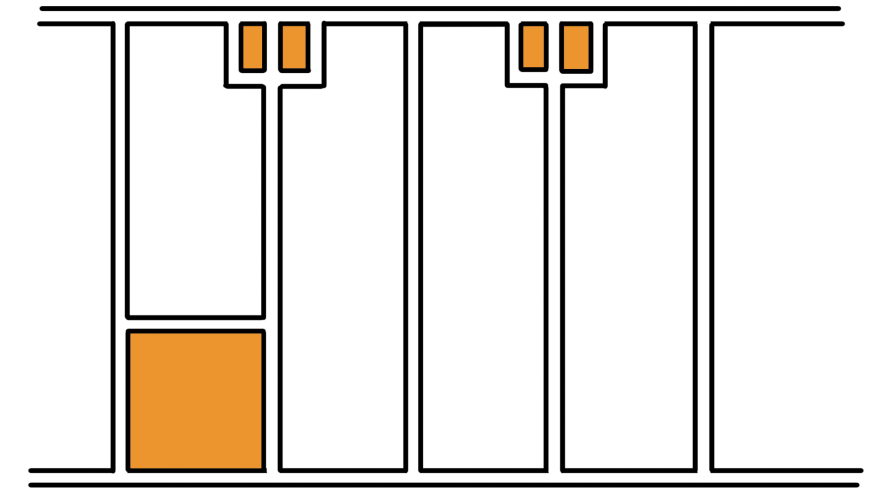
Structure

Site

Design starting points for the services

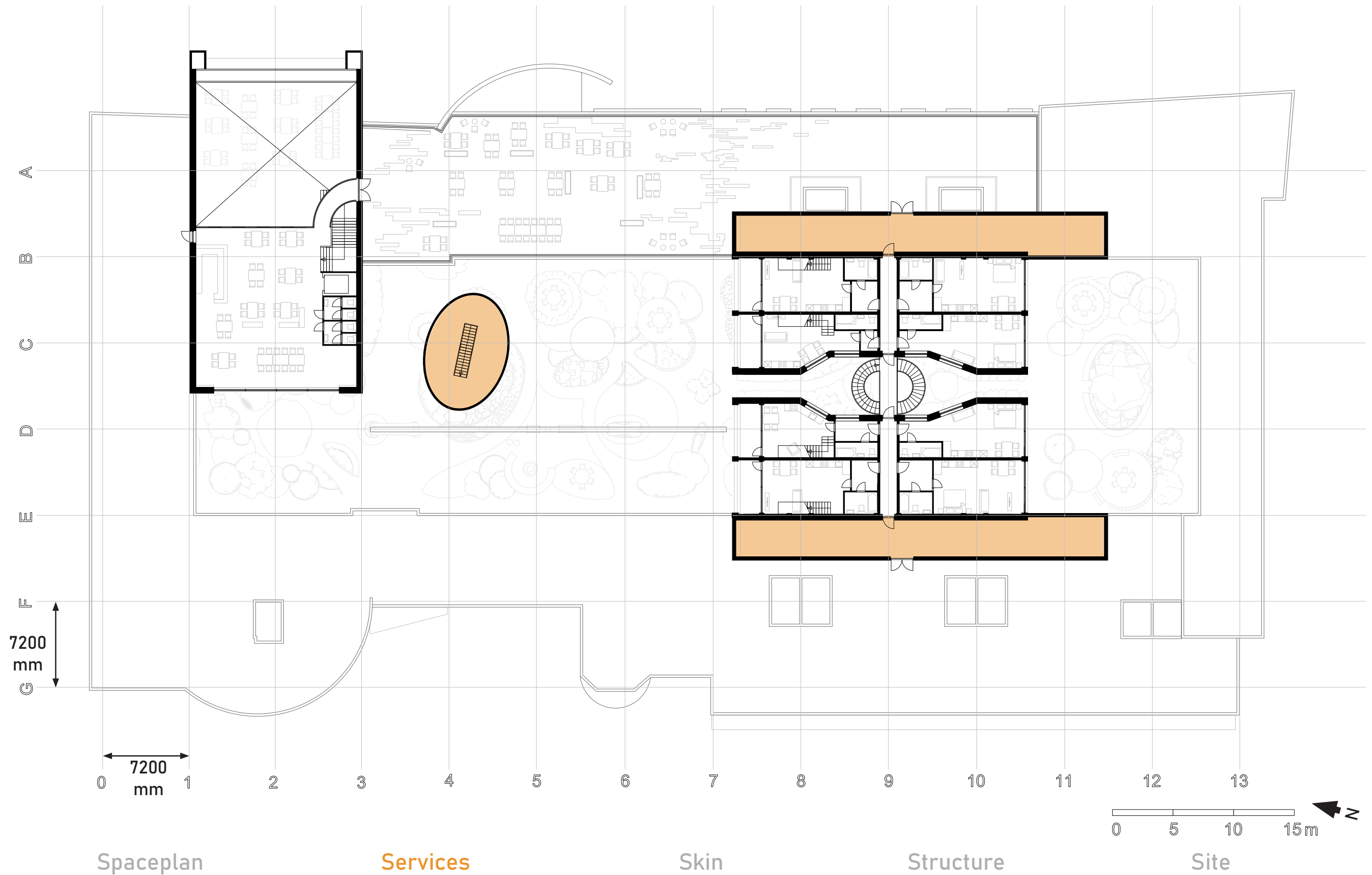
More **services** should be added per apartment and part of the **general service spaces** should be kept.

- **The new function that need added services**
- **Some of the common service spaces will need to remain**

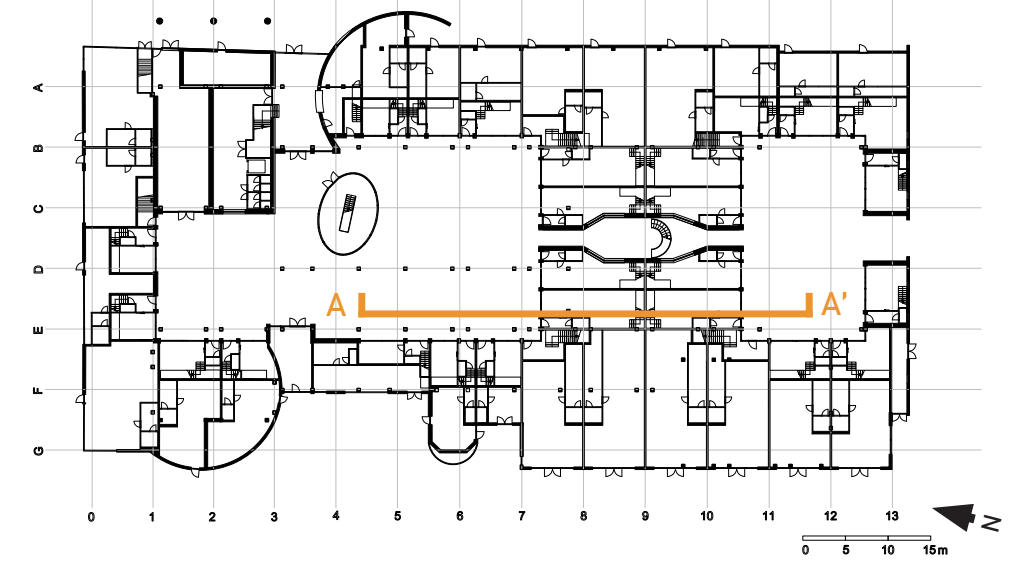


New second floor floor plan of the Meervaart

 Technical rooms



Climate scheme with the services



Solar panels for generating energy

Sedum roof for energy saving and cooling the solar panels

Ventilation type A, natural ventilation

Outdoor blinds for a better indoor climate

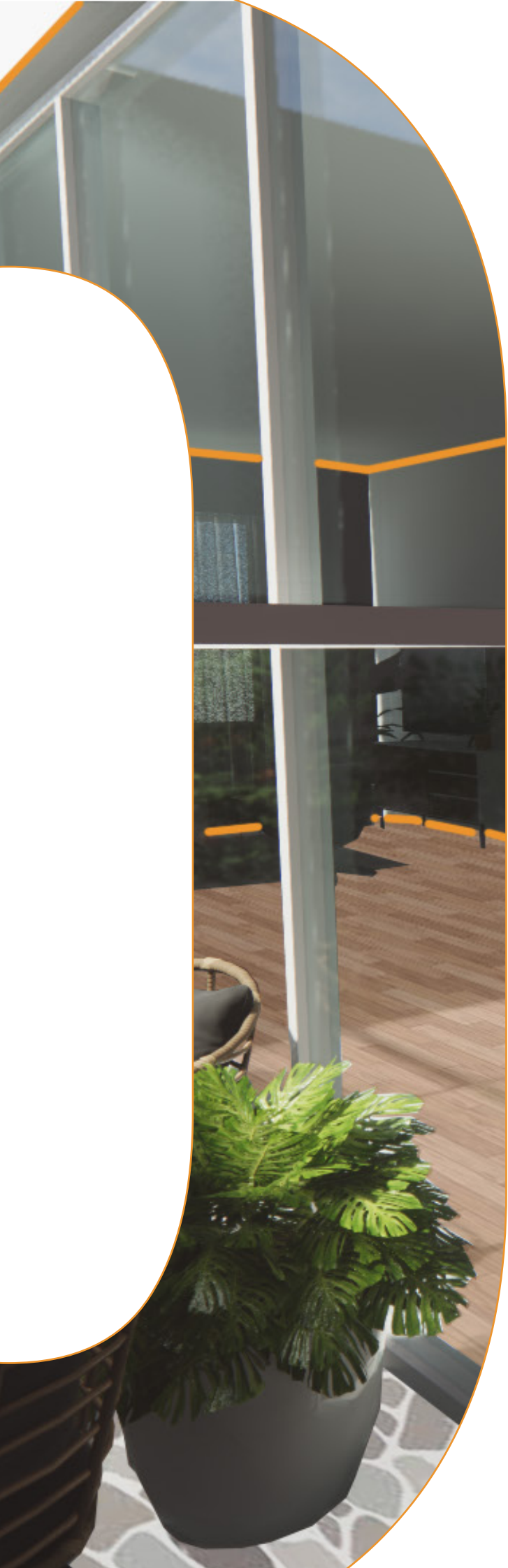
Greenery in the garden for a pleasant microclimate

Floor heating for lower energy costs and efficient heat distribution

Voids for increased light

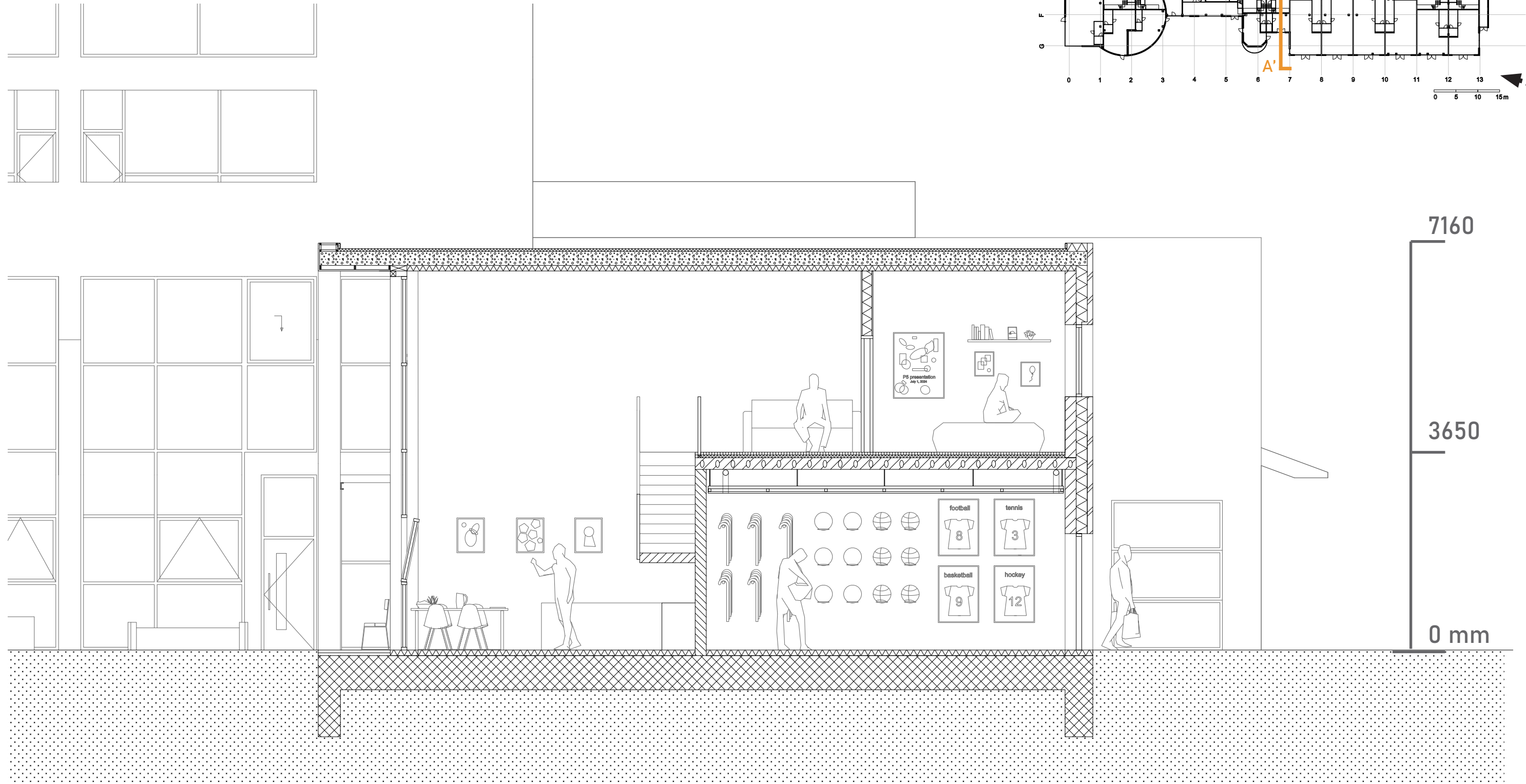
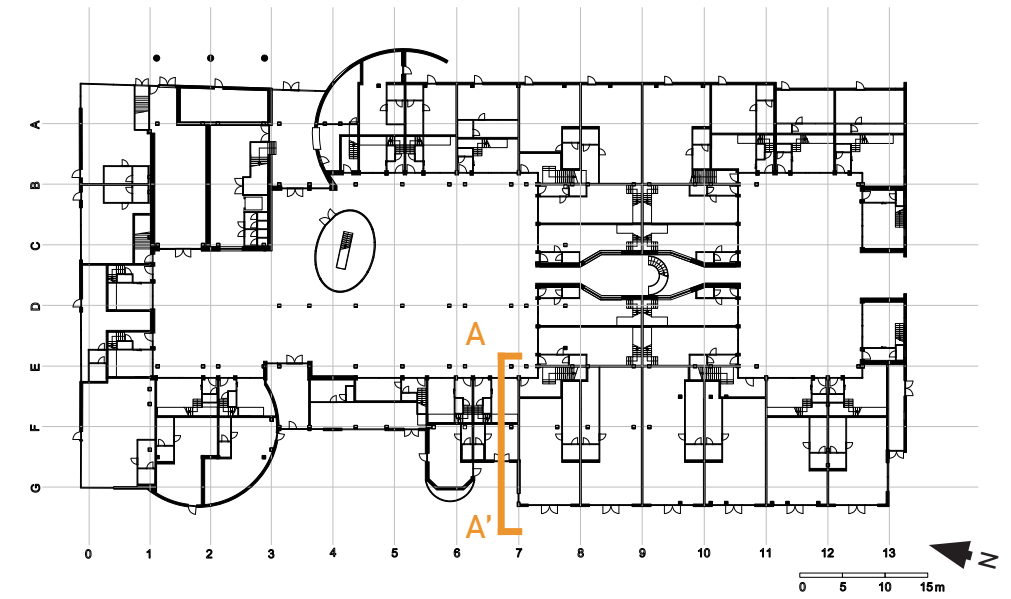
Water storage in the old cellar for irrigation of the garden

The stores and restaurant will use Type D ventilation with mechanical supply and exhaust through an air treatment cabinet with a heat exchanger. These cabinets are located in the stores' storage area.



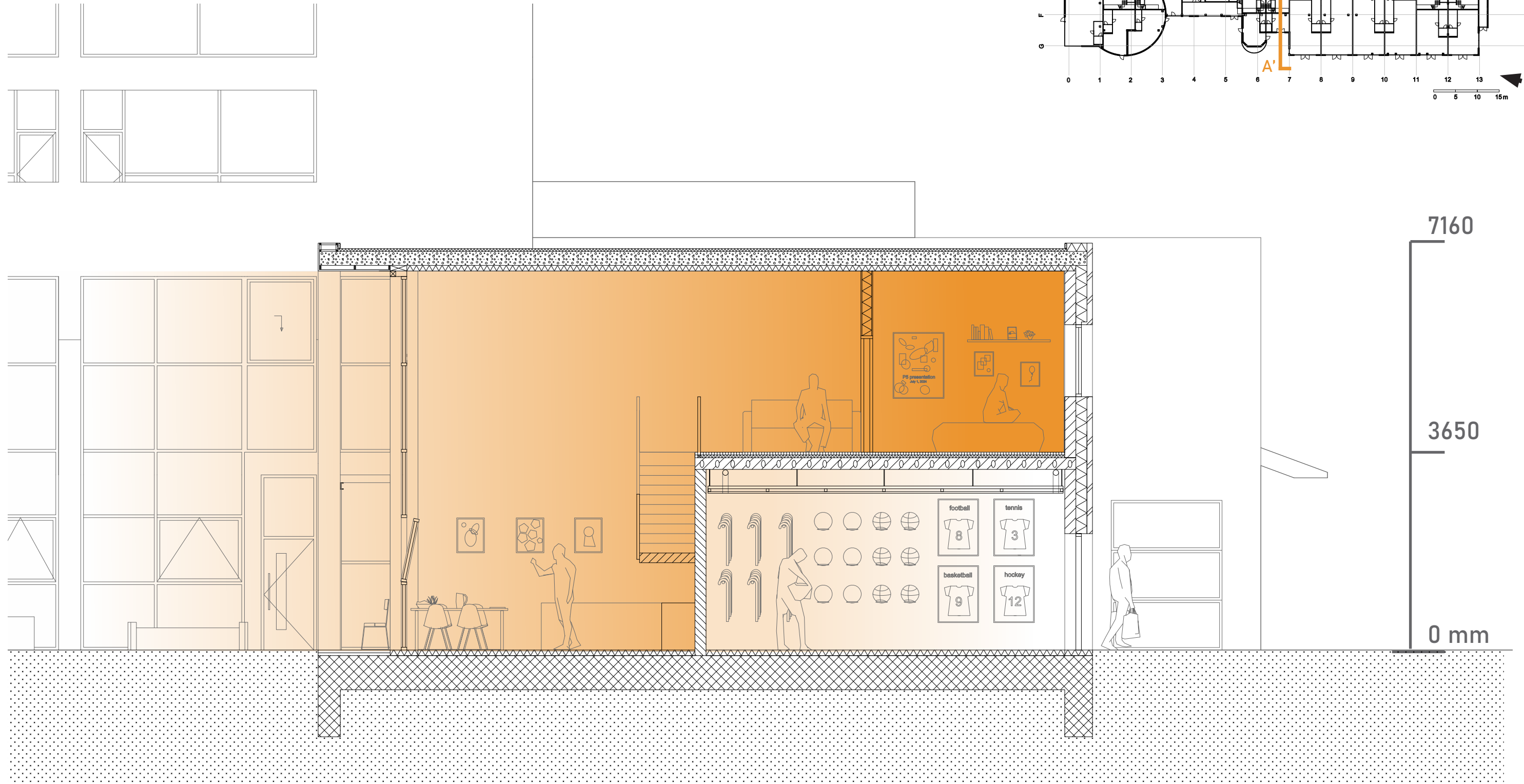
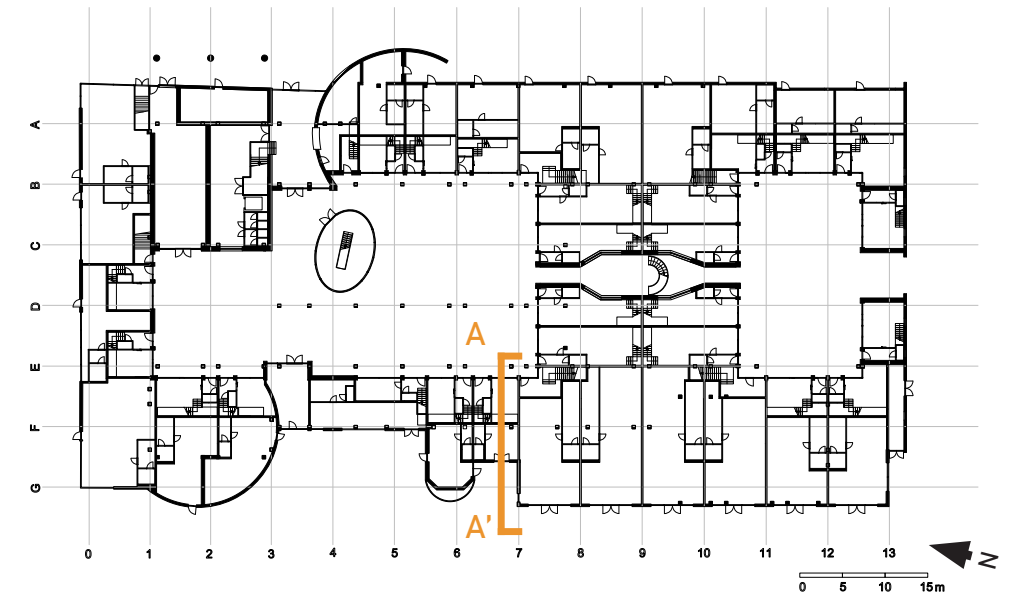
DESIGN FOR BUILDING QUALITIES

Cross section A-A' through an apartment and a store



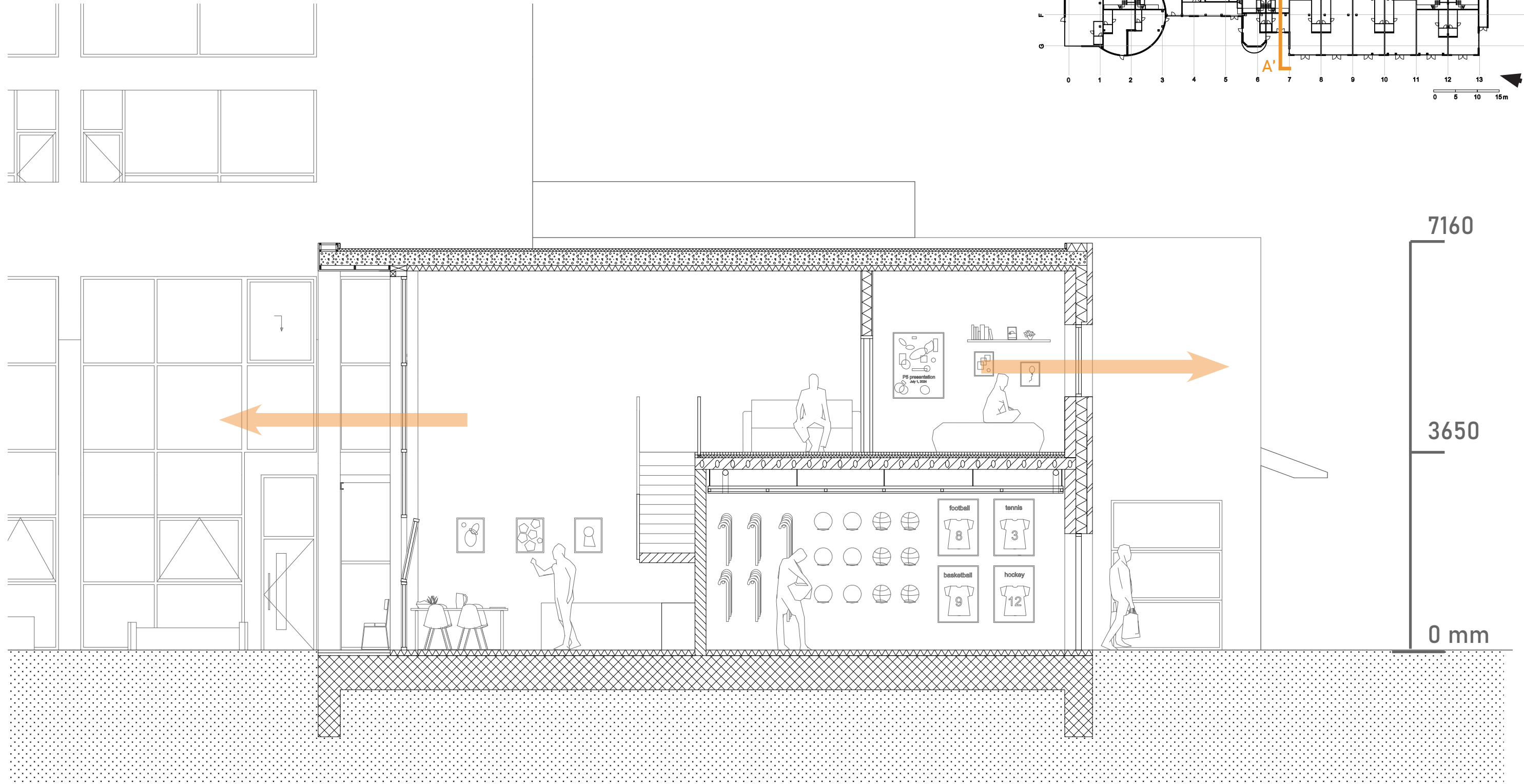
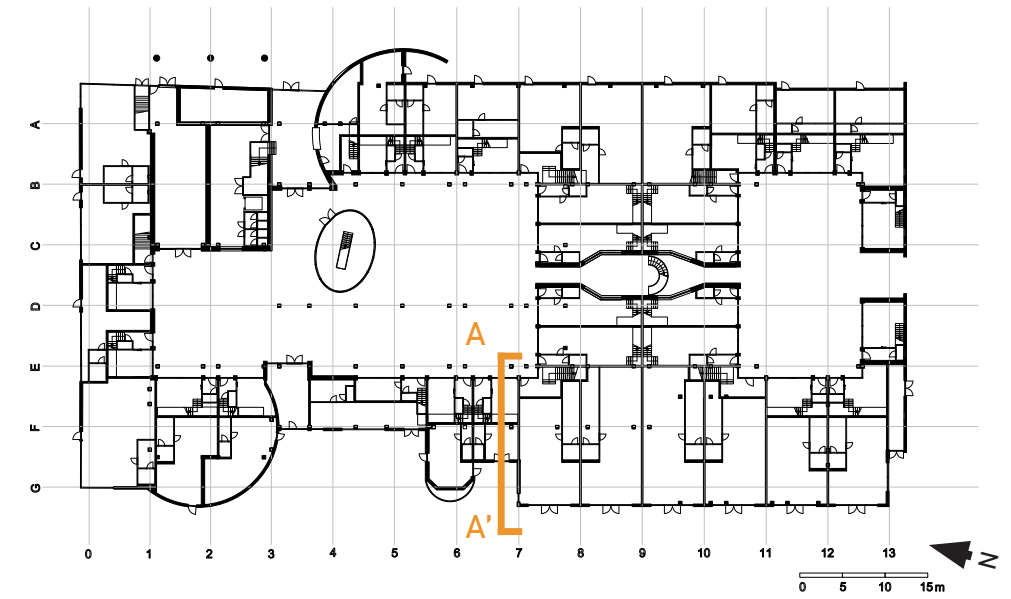
0 2,5 5 10 m

Gradations of public (white) and private (orange) areas



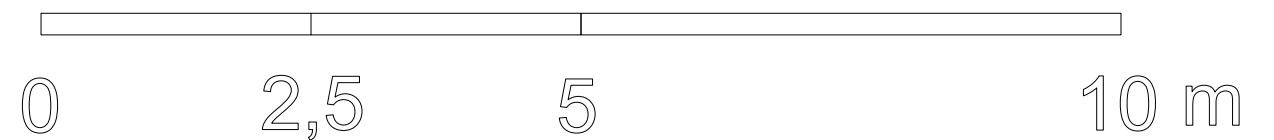
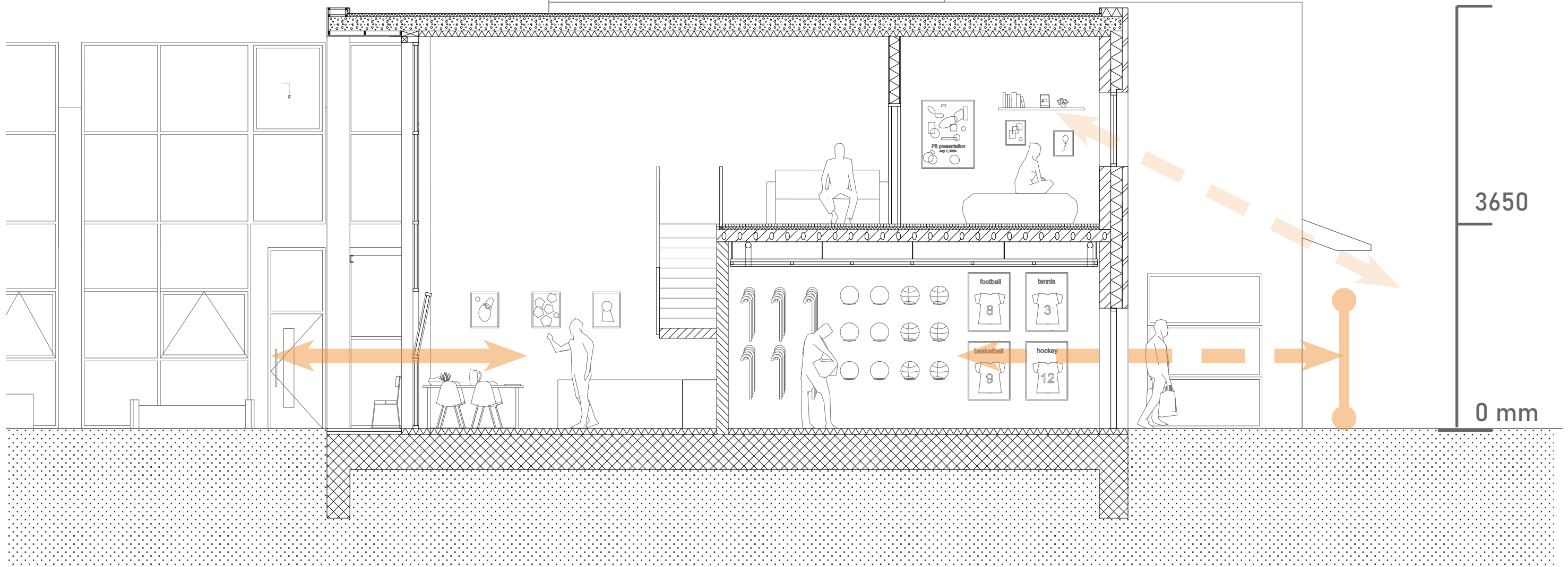
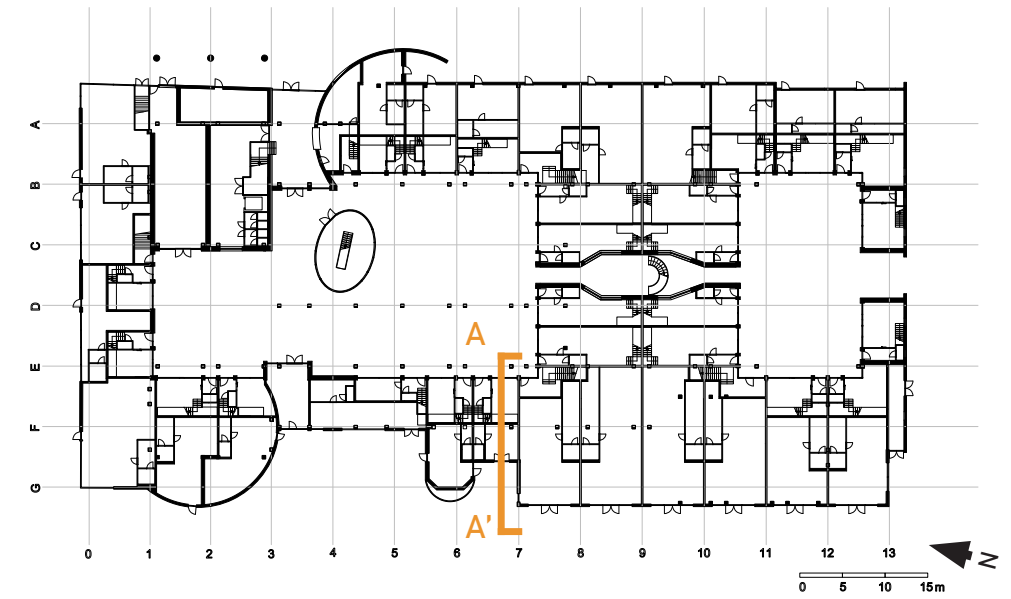
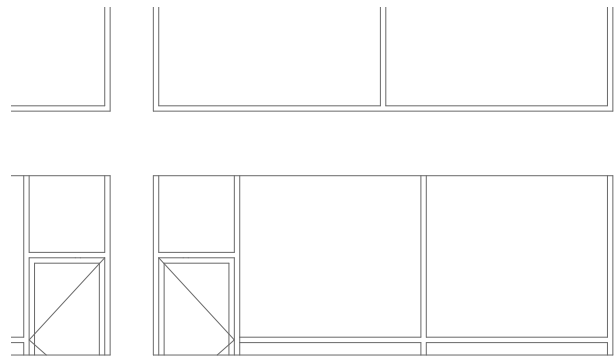
0 2,5 5 10 m

Sense of location

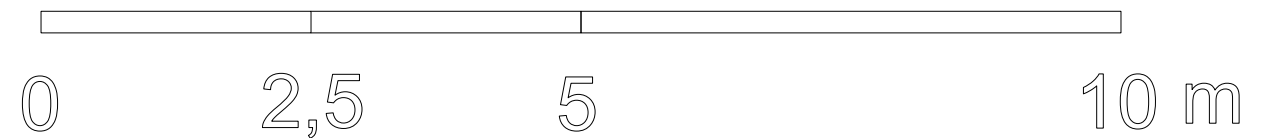
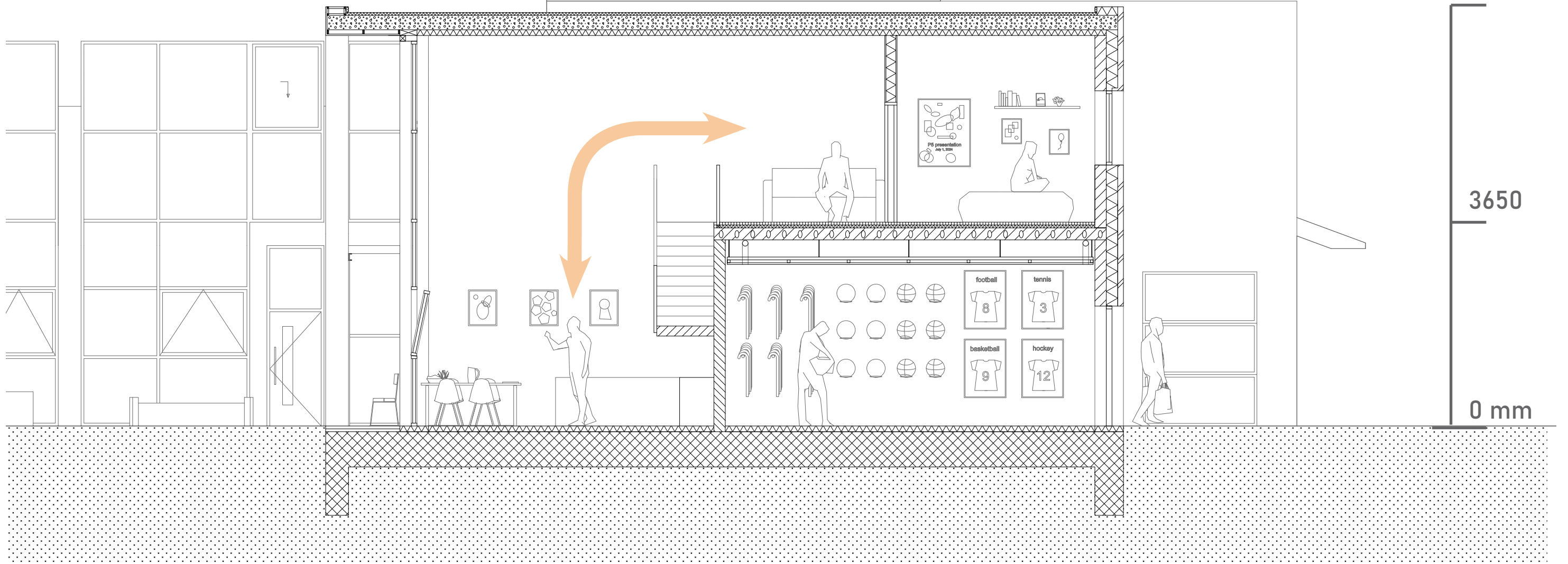
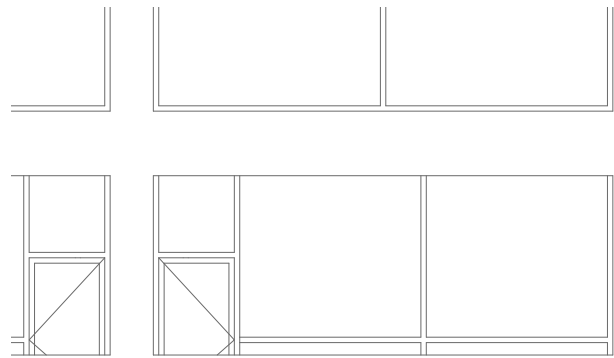
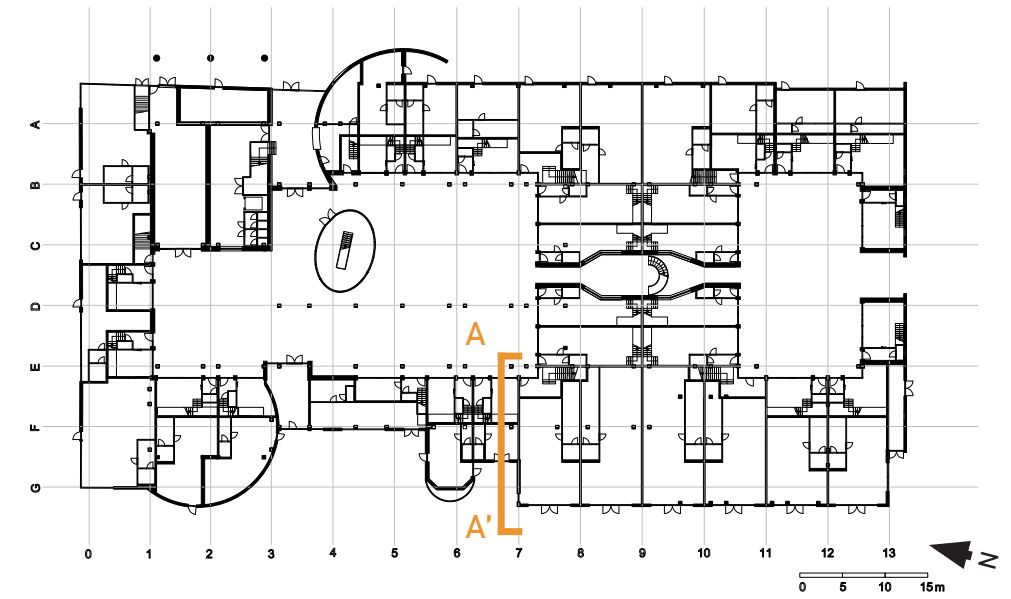


0 2,5 5 10 m

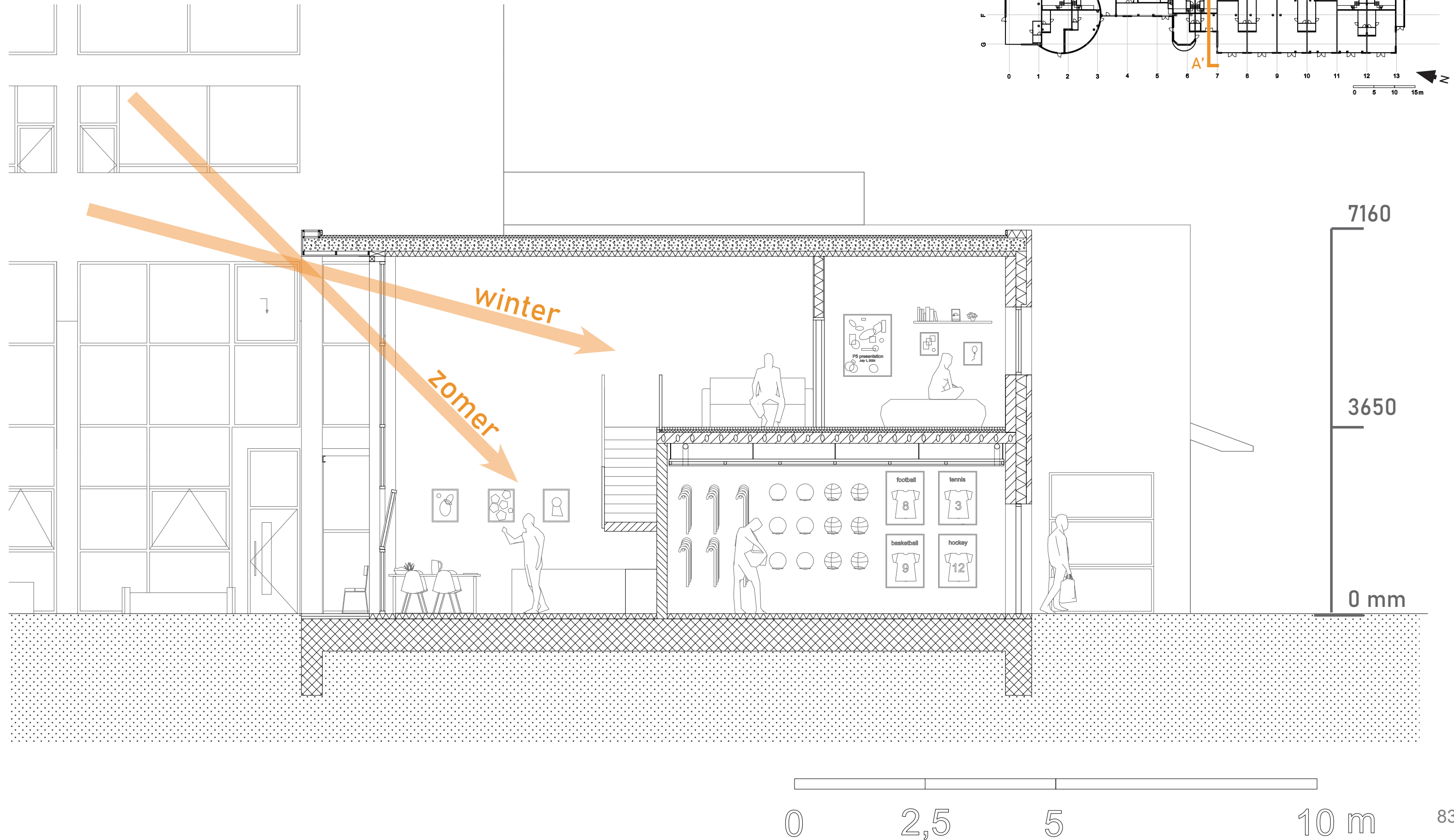
Social safety/eyes on the street



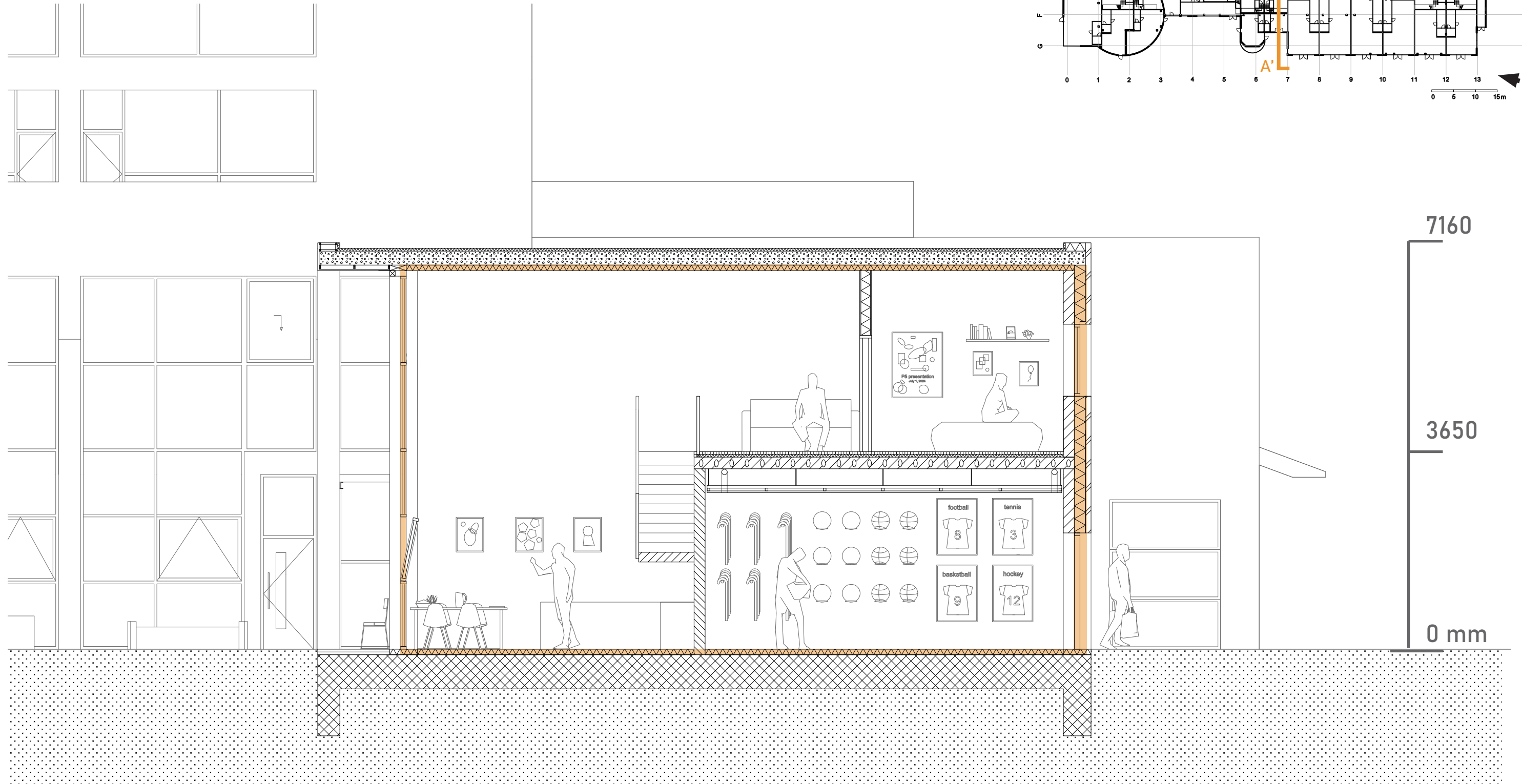
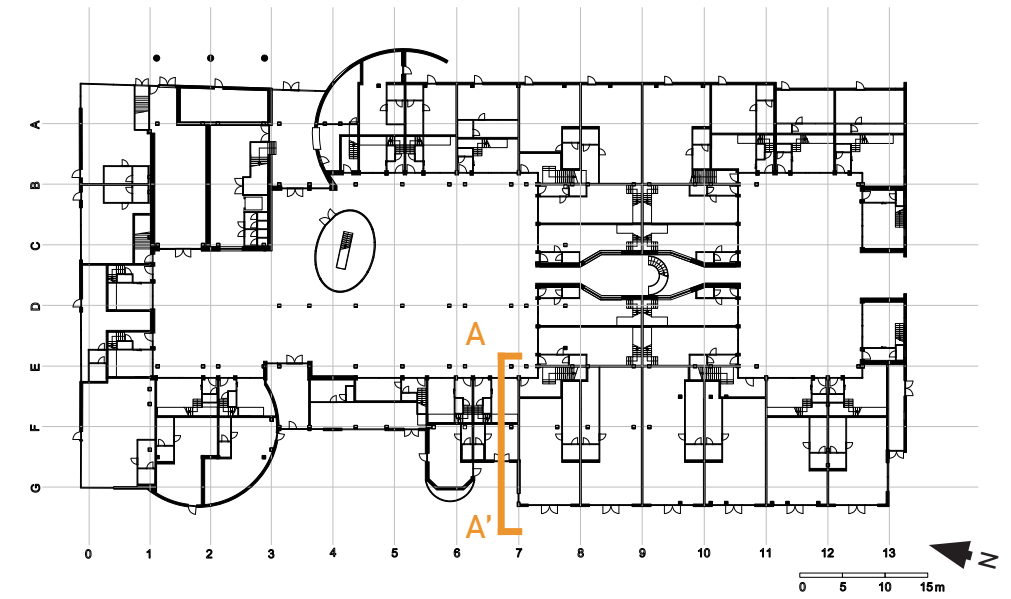
Open floor plan



Take light into account

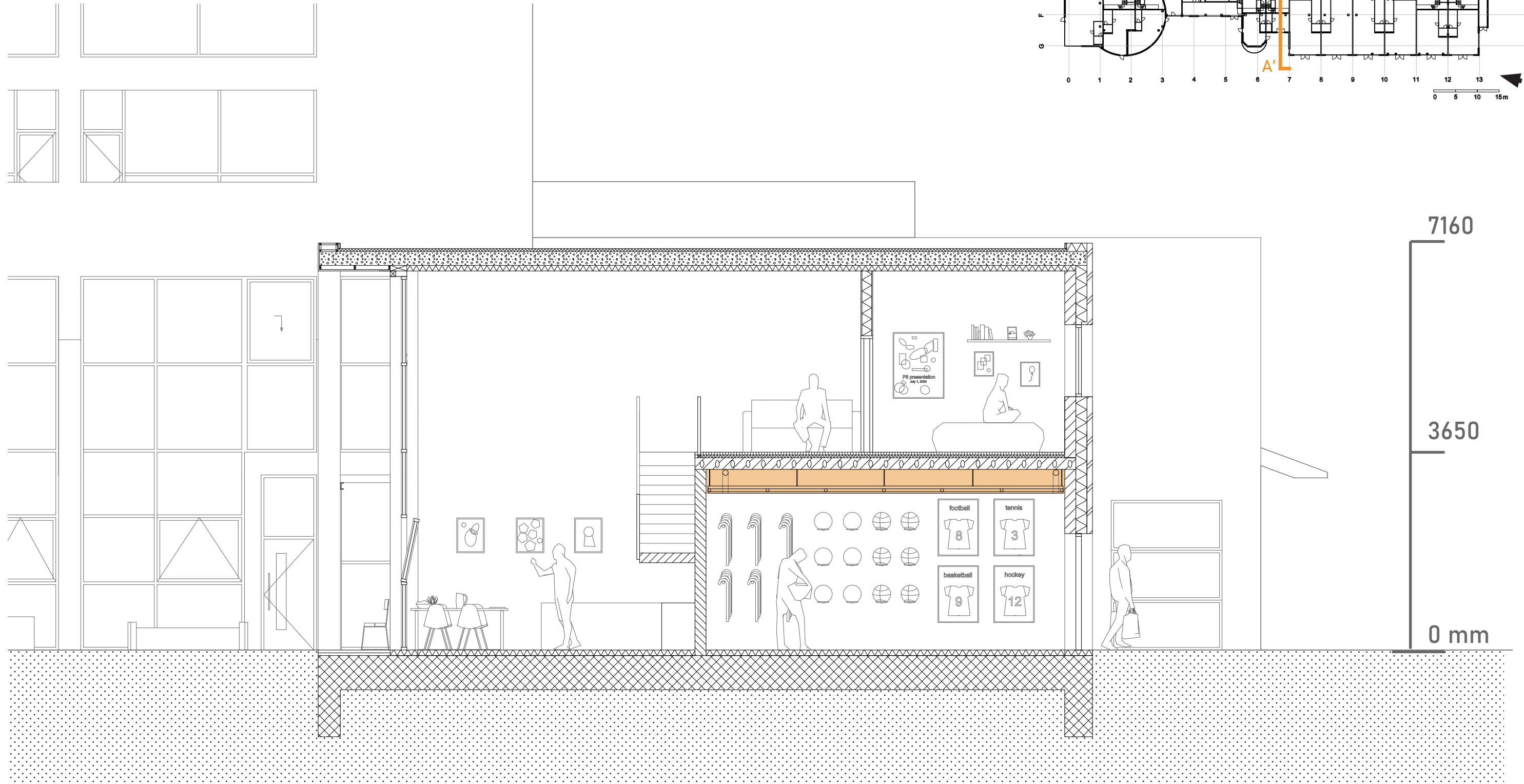
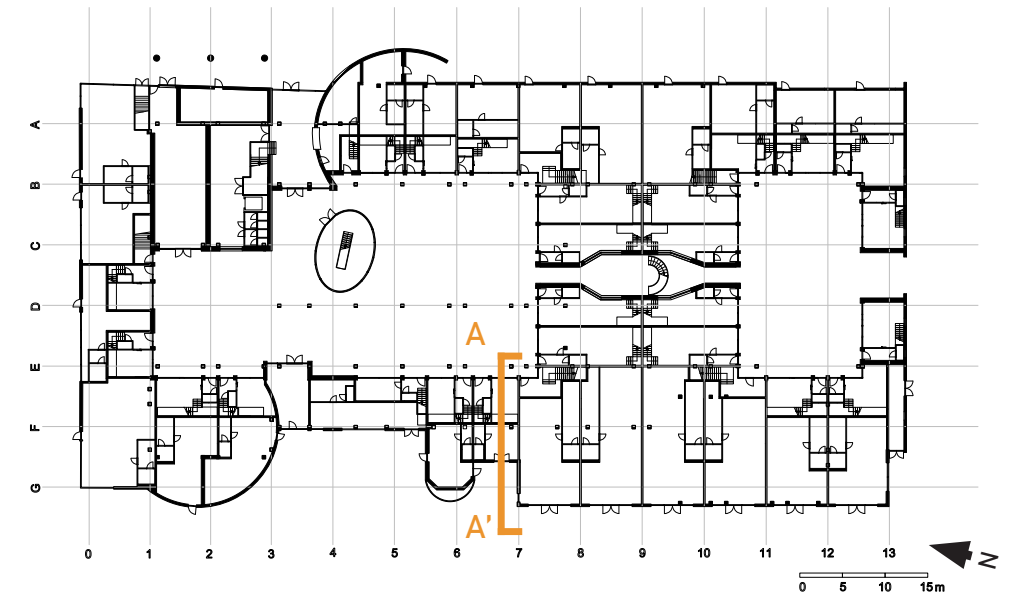


Added additional interior insulation



0 2,5 5 10 m

Climate ceiling for better indoor climate



7160

3650

0 mm

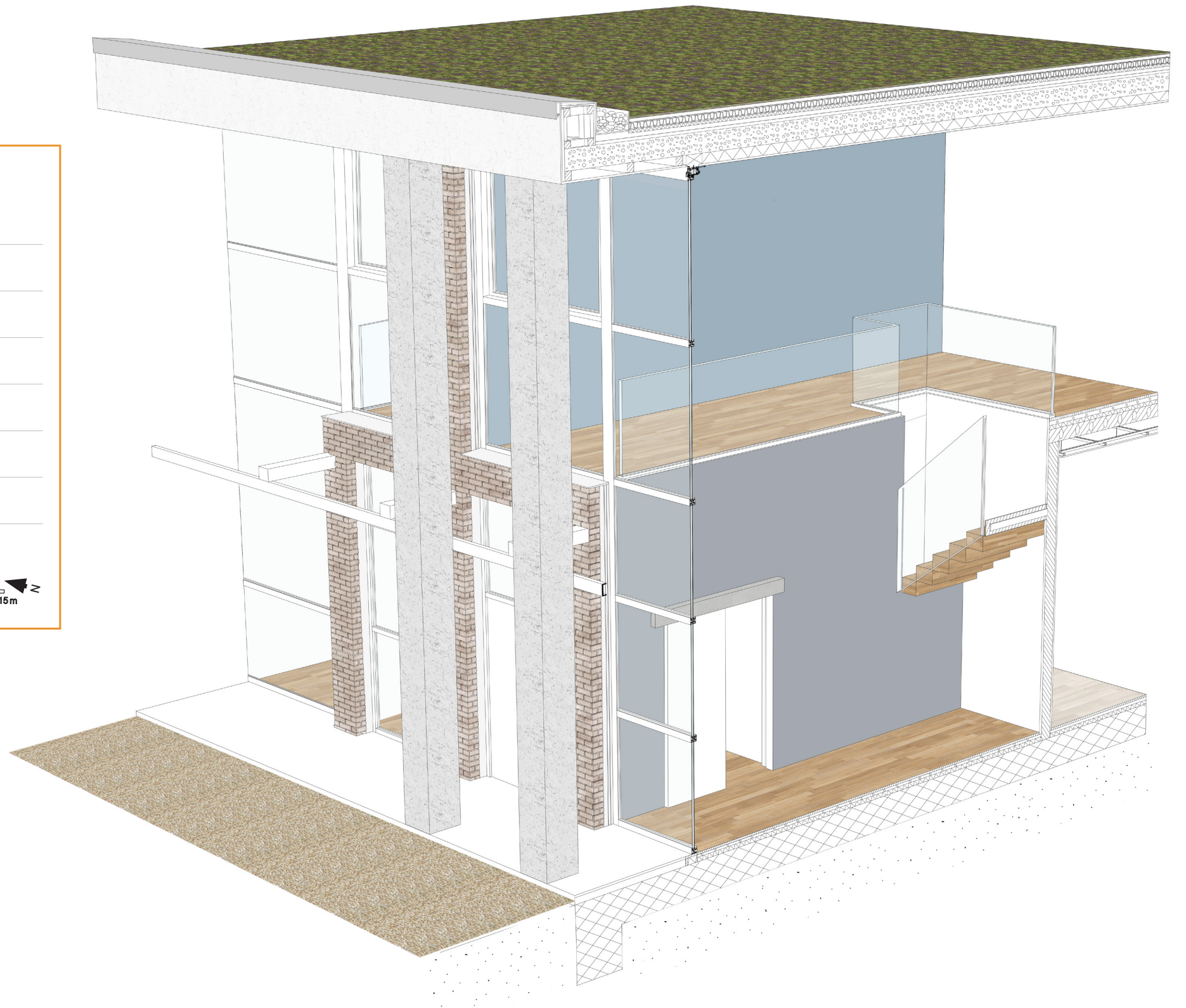
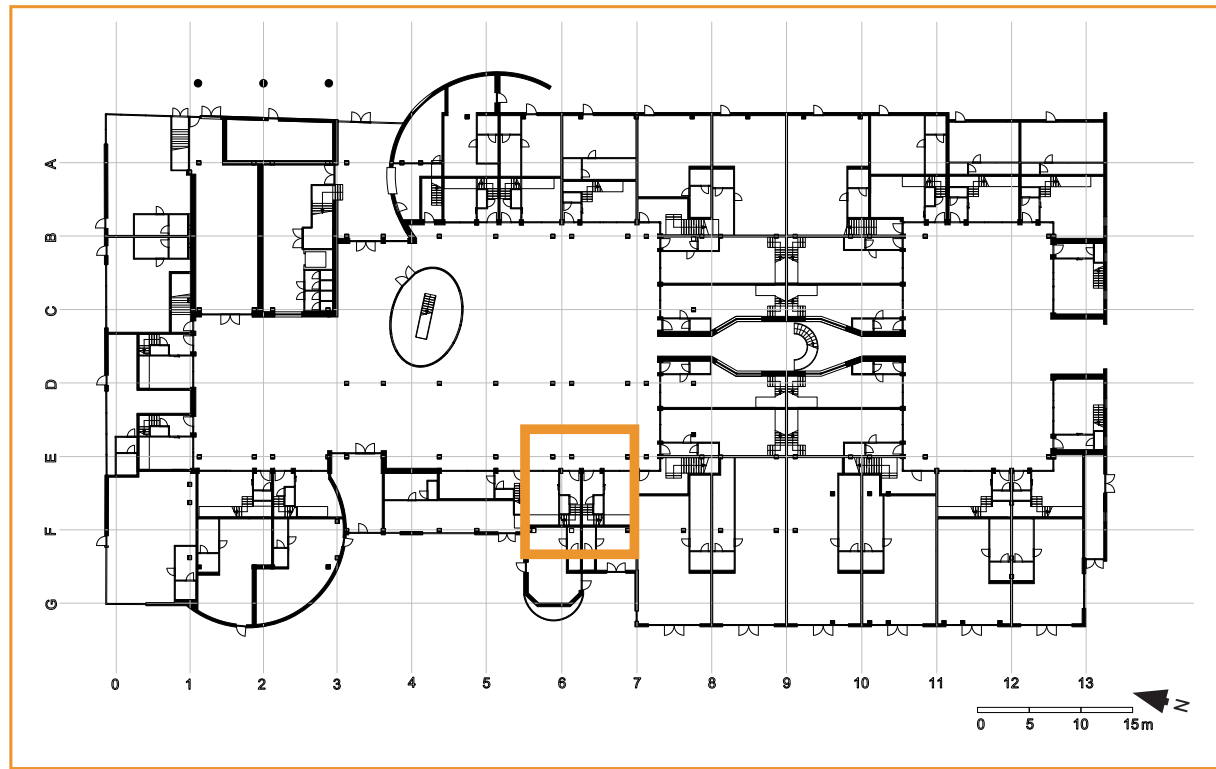
0

2,5

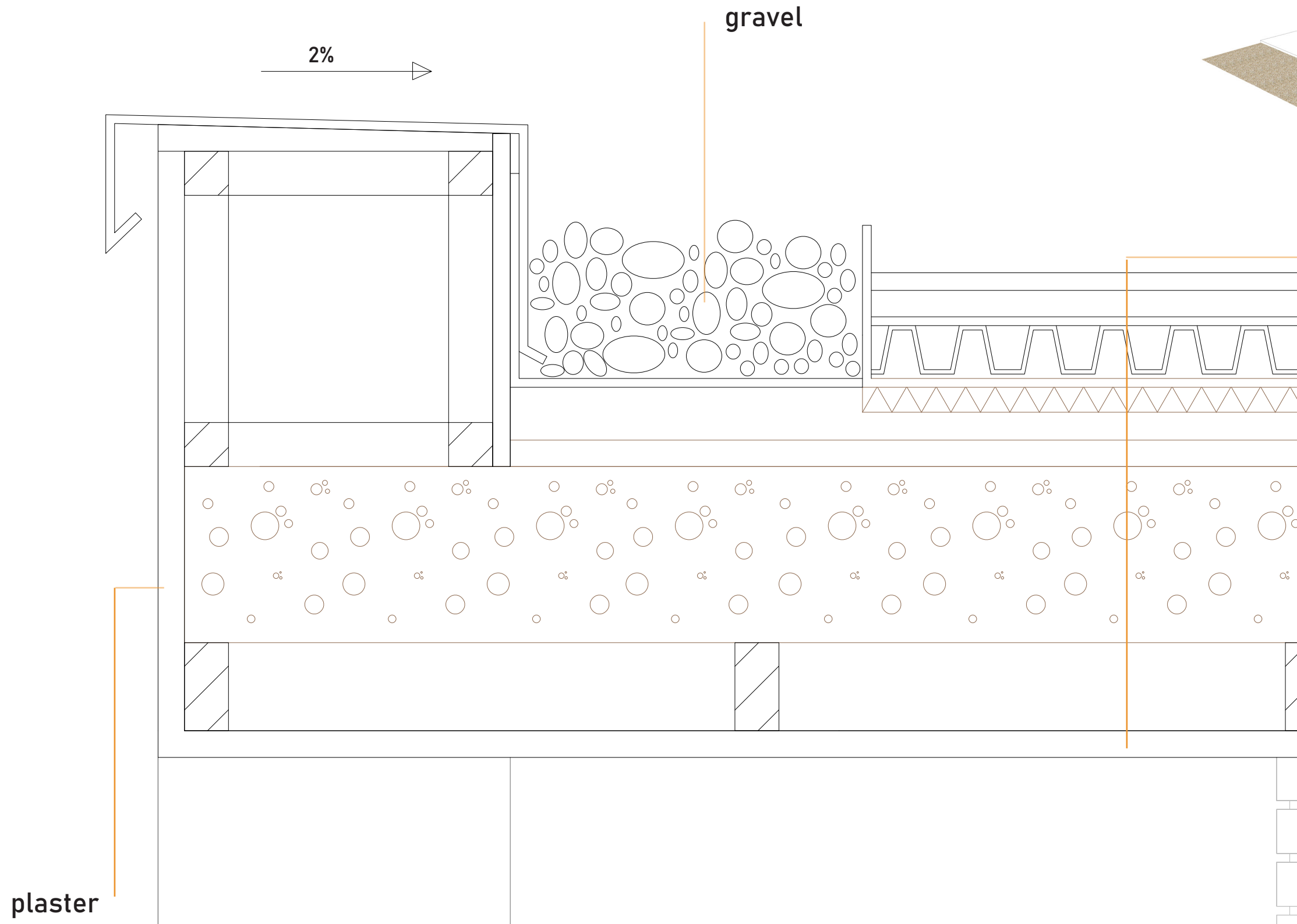
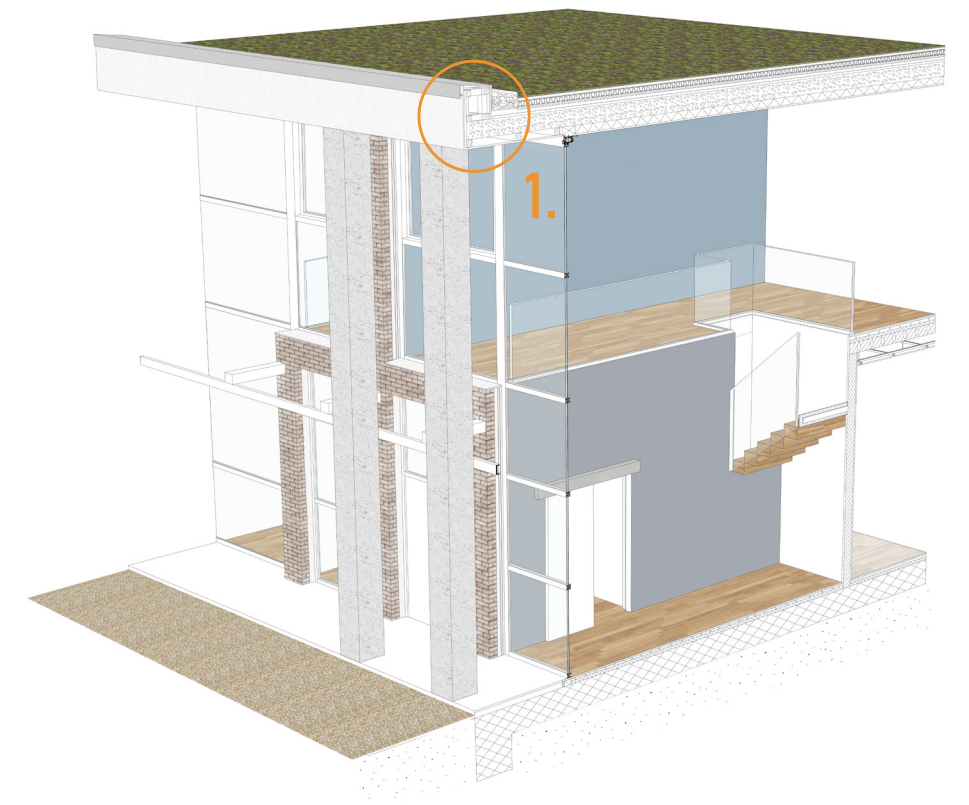
5

10 m

Materialization detail

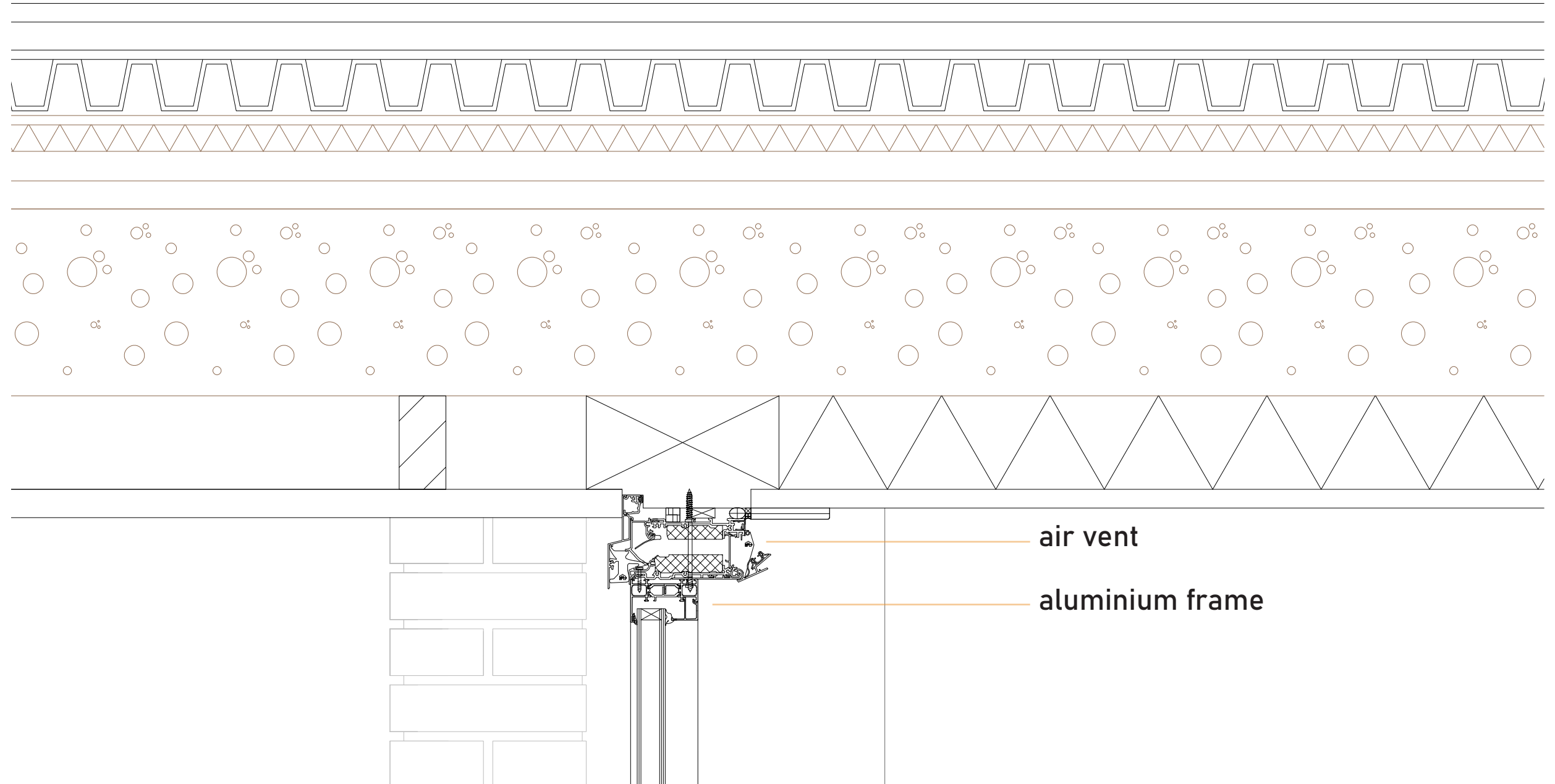
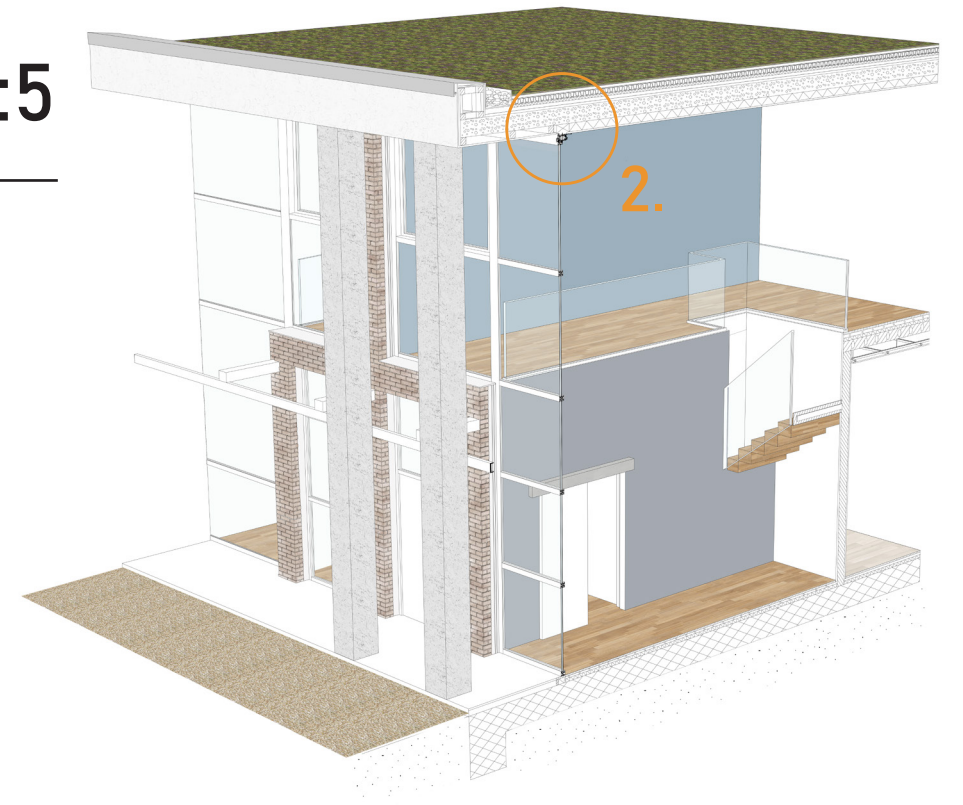


Detail of the roof edge 1:5

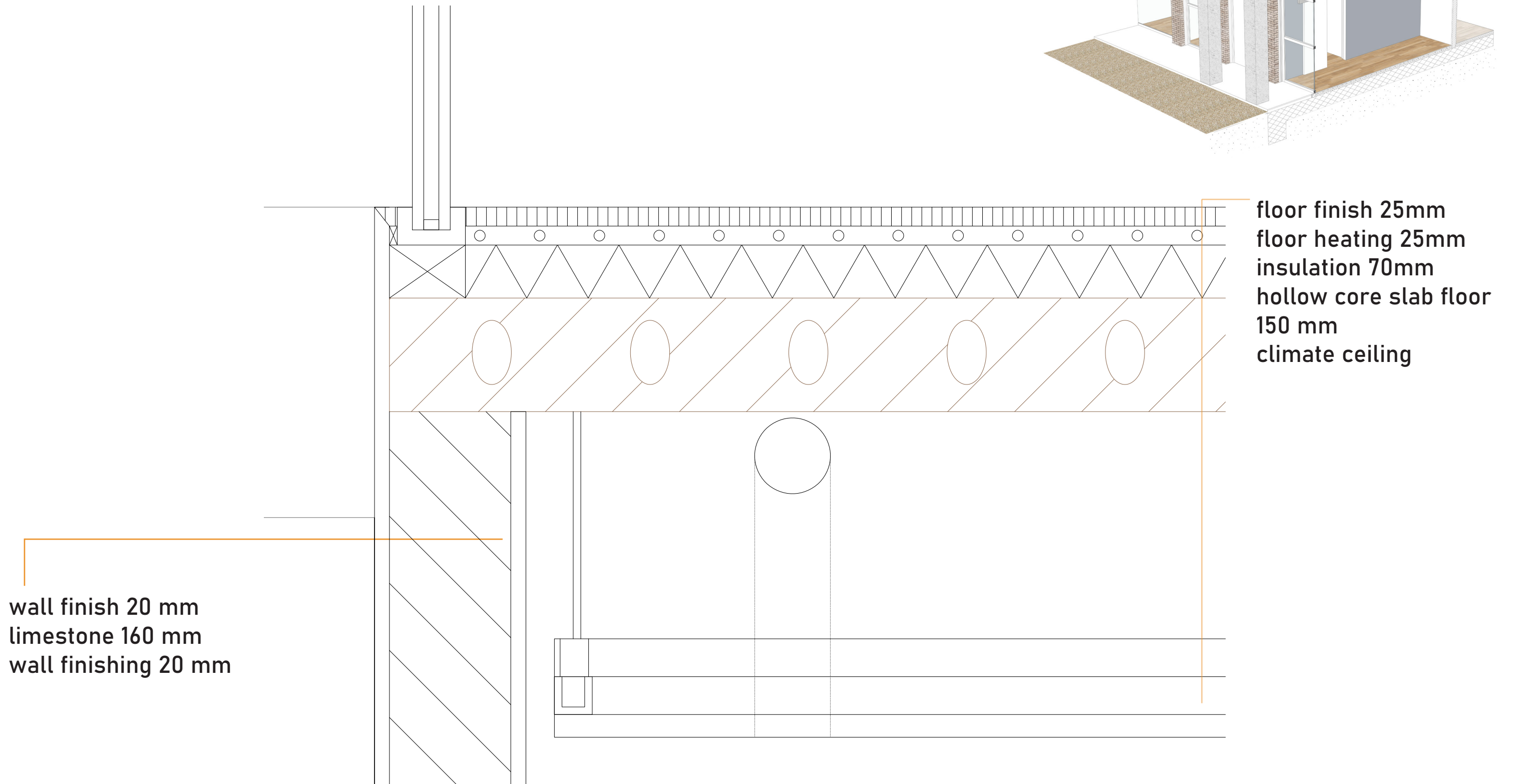
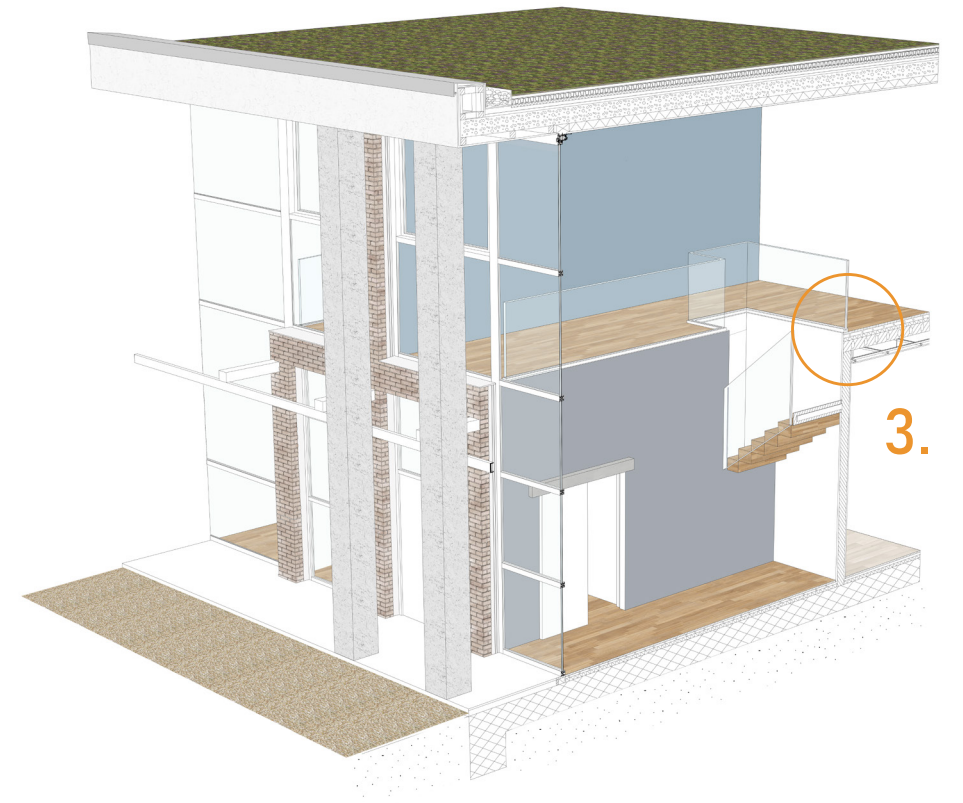


- sedum layer
- substrate layer
- filter layer
- drainage layer
- protection layer
- roofing
- water barrier foil
- insulation 80 mm
- drainage layer 20-120 mm
- vapor barrier
- compression layer 70 mm
- aerated concrete 200 mm
- insulation layer
- ceiling finishing

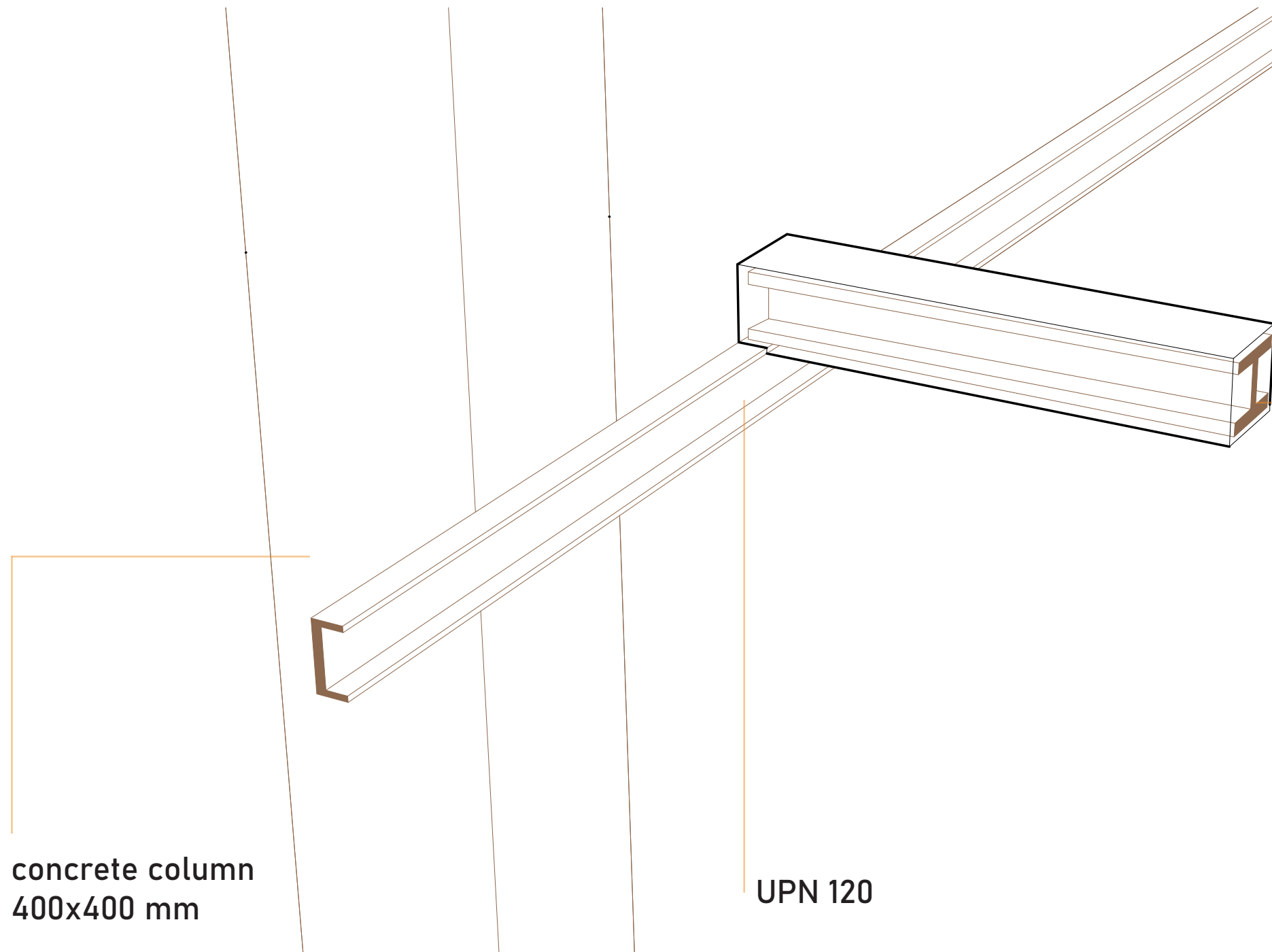
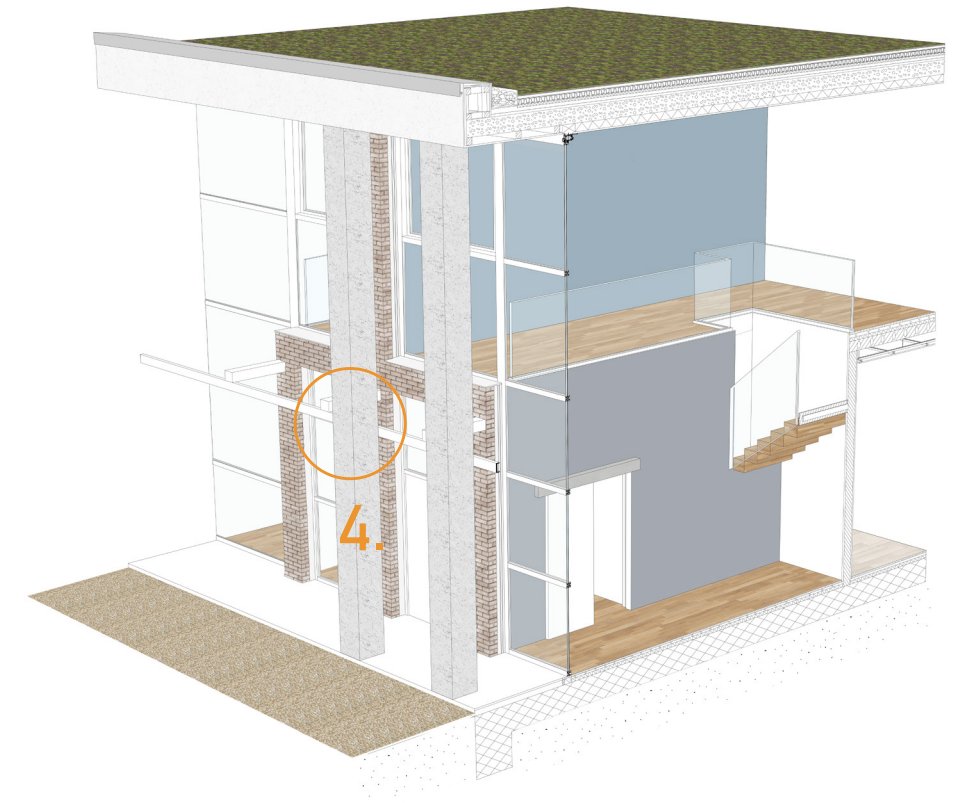
Detail of the connection of the window frame to the roof 1:5



Detail of the partitional wall 1:5



Explanation of the construction connection



concrete column
400x400 mm

UPN 120

HE200A sheathed
with insulation

variable loads
5 kN/m² meeting room
1.75 kN/m² living area
Belasting berekening Eurocode 1. (z.d.).
<https://www.mile17.nl/belasting.php>

Numbers of functions


Apartments

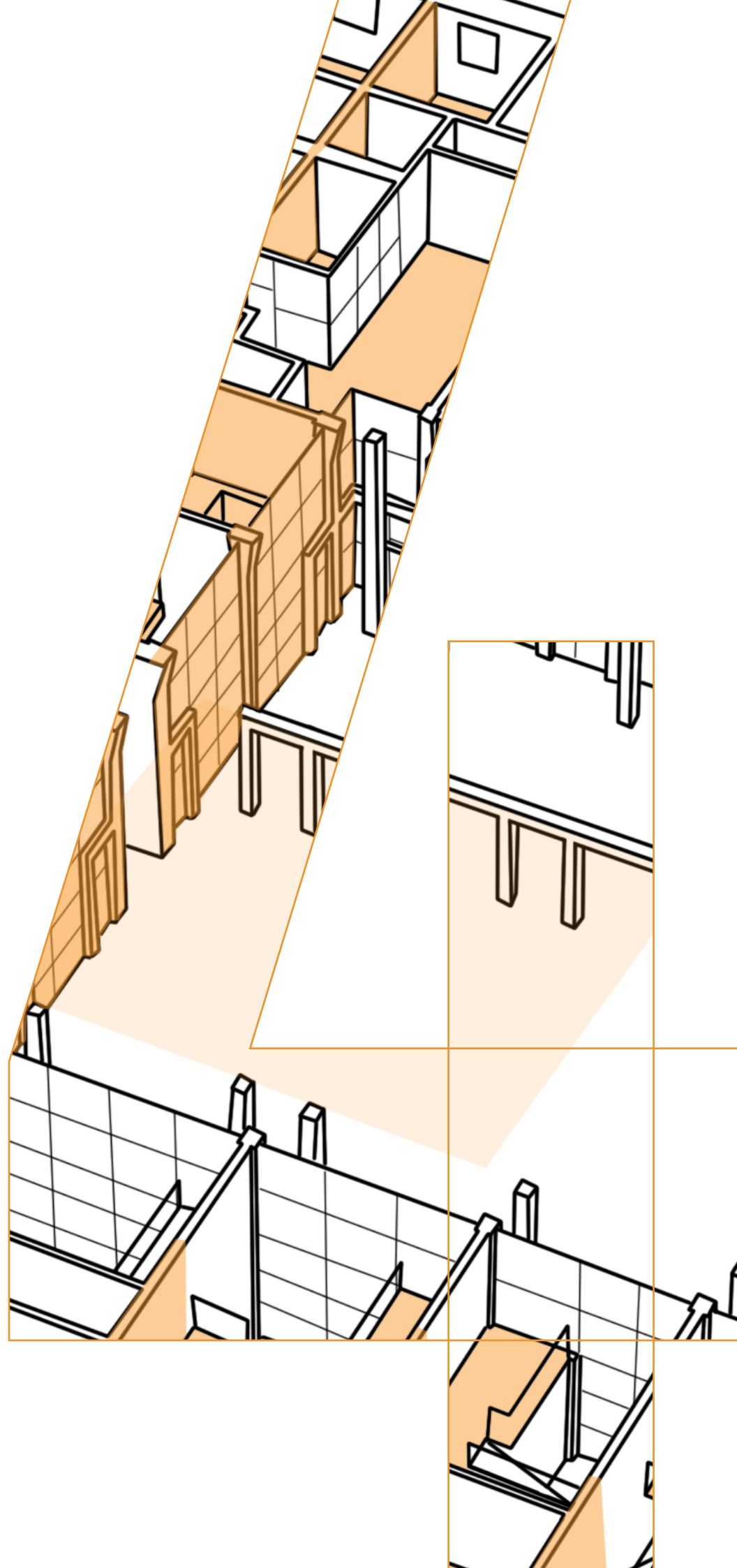


Public visiting spots



Common functions

- Bicycle storage 96 
- Coffee place
- Vegetable garden
- Courtyard
- Laundry room



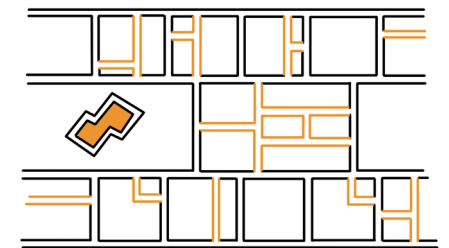
CONCLUSION

Conclusion of the design strategies

What design strategies can be used during the design process to preserve a building when it is split into smaller segments.....

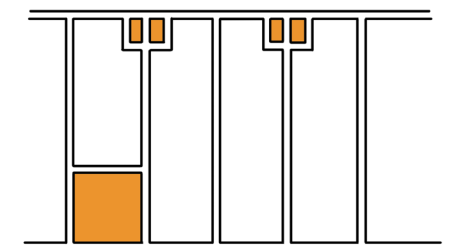
Spaceplan

1. The **space plan** of the building should be **kept the same in main plan** as much as possible, where additional walls and floors can be added. It is added that **a distinctive area** of the building's floor plan should remain **unchanged**.



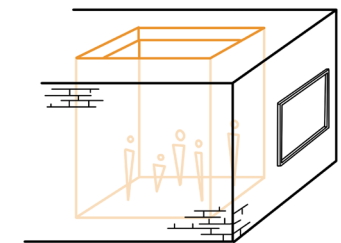
Services

2. **More services** should be **added** per apartment and part of the **general service spaces** should be **kept**.



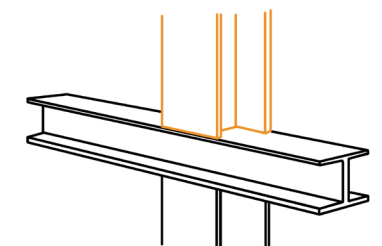
Skin

3. The **facade** should be **kept** as much as possible and only an **subtraction in the roof** should be made where **people gather**.



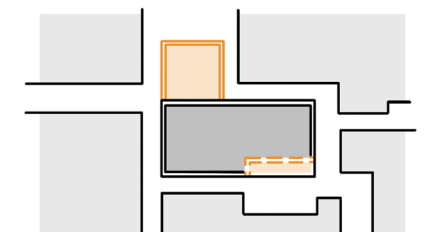
Structure

4. **Keep the structure visible** where it was already visible and **keep the structure** the same much as possible.



Site

5. The **site can be added, taken away or kept the same**. This involves considering the possibilities of the surroundings and the new function of the building.



Classification of the Meervaart

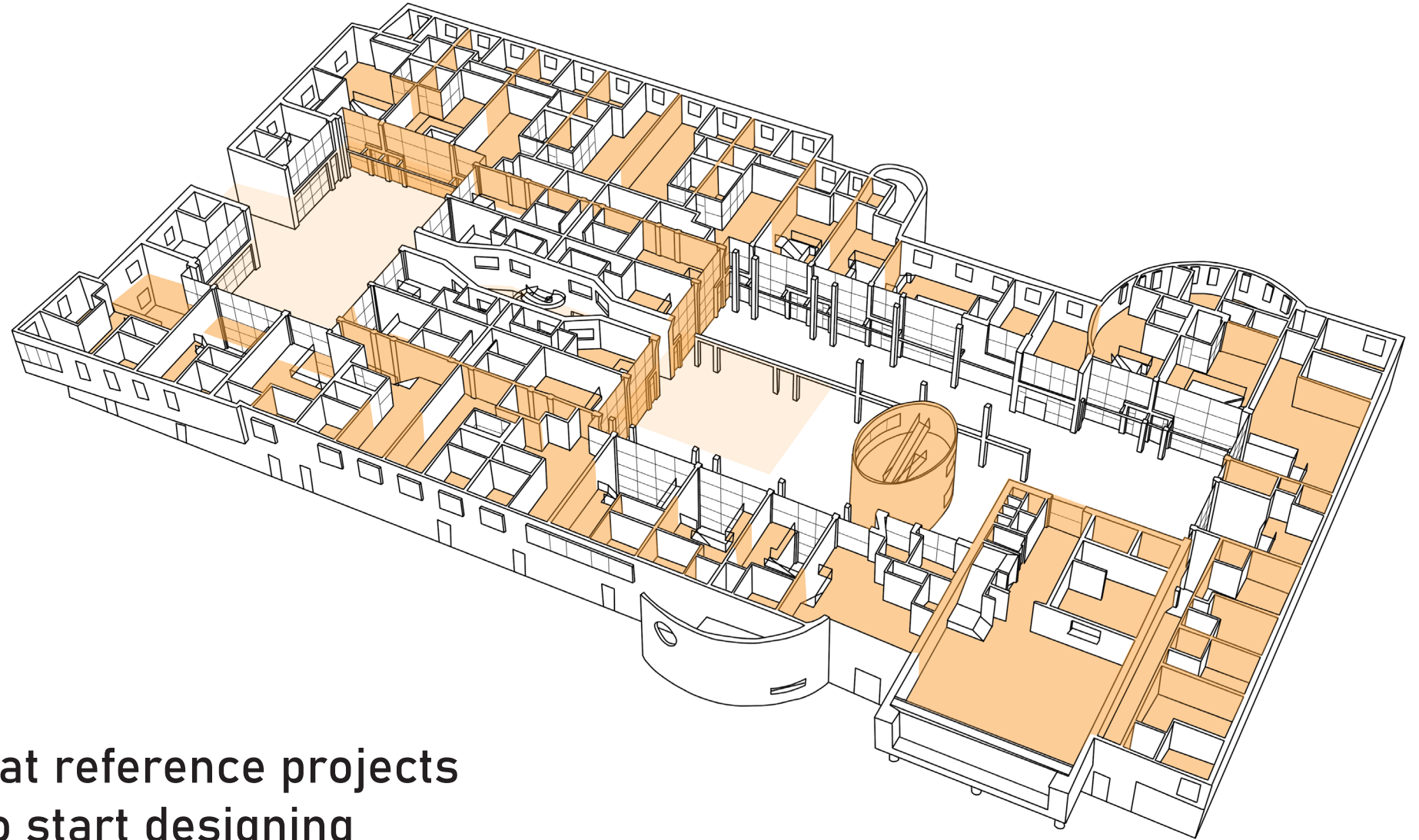
Adaptability

Layers

	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Space plan						
Services						
Skin						
Structure						
Site						

Conclusion of the usability of the strategies

... and to what extent do these design strategies help in designing a building to be transformed?



- + Good method of looking in depth at reference projects
- + The strategies are a good tools to start designing
- + The strategies are helpfull in making design decisions
- Not every building is the same so it remains a lot of figuring out on a project-by-project basis
- The strategies could be more specific for a better and faster design process



RECOMMEN- DATIONS

An architectural rendering of a modern building's interior. The scene is dominated by a large, multi-paned glass wall that looks out onto a bright, landscaped courtyard. Inside, the space is minimalist and bright, with light-colored walls and wooden flooring. On the left, a desk with a chair and a small table with a chair are visible. A world map is mounted on the wall. The courtyard outside features a central circular area with a fountain, surrounded by greenery and a paved walkway. The overall atmosphere is clean, open, and airy.

**For more resourceful housing:
Stop demolishing buildings and start transforming!**

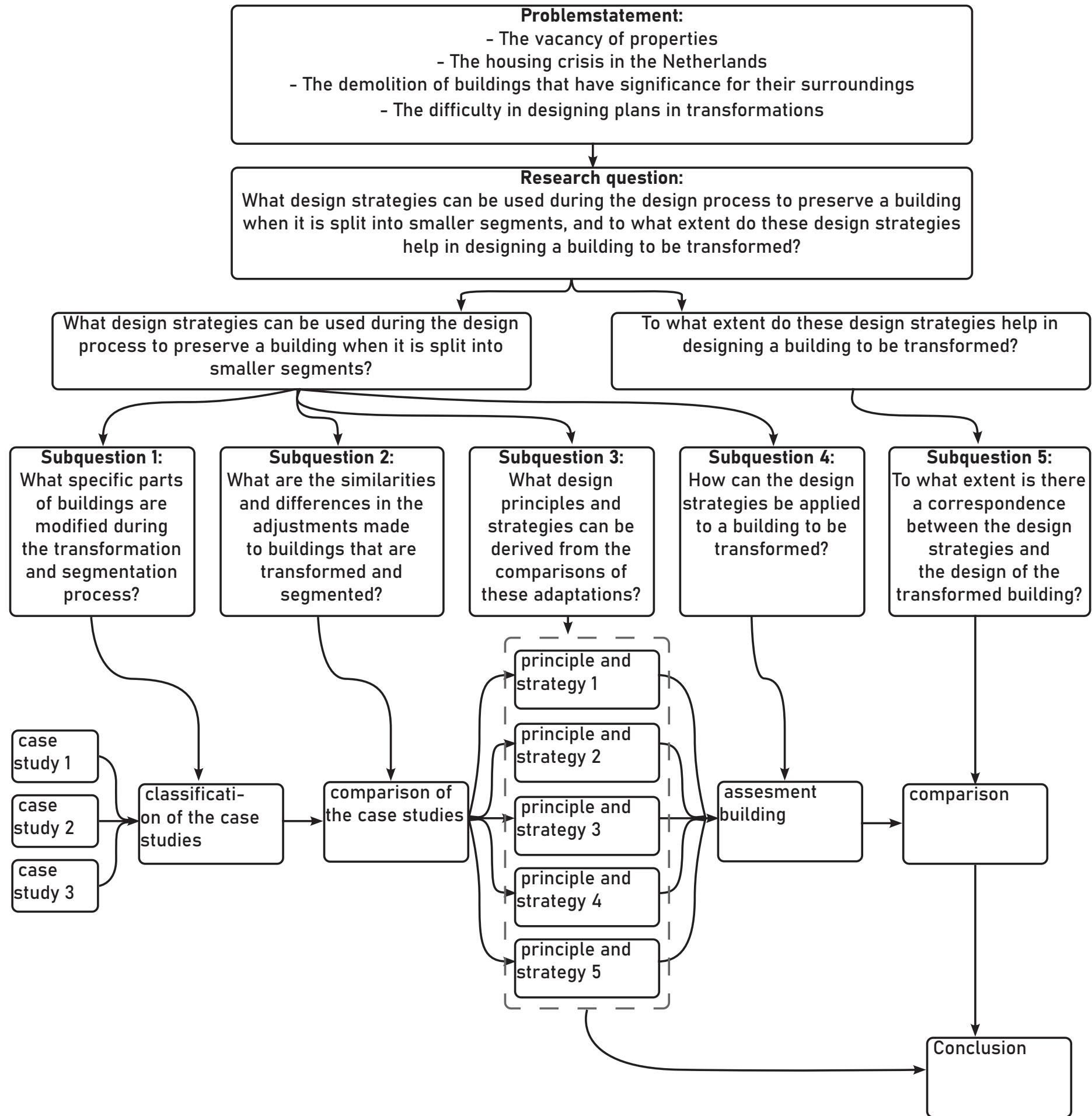
Name: Anouk Wijnant

Student number: 4838637

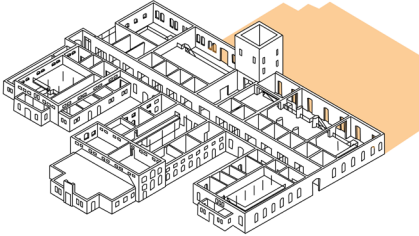
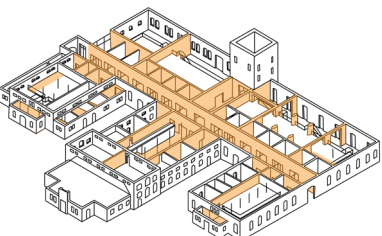
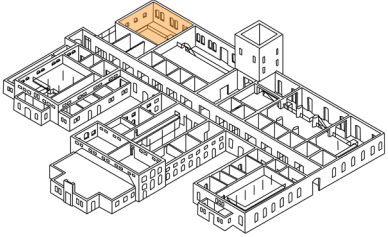
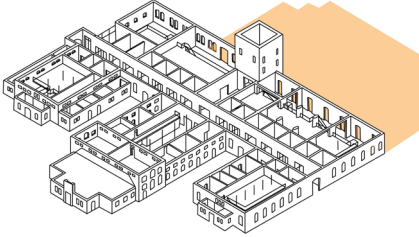
Name teachers: Lidwine Spoormans, Ana Pereira Roders and Elina Karanastasi

Studio: Resourceful Housing- adapting 20c Heritage

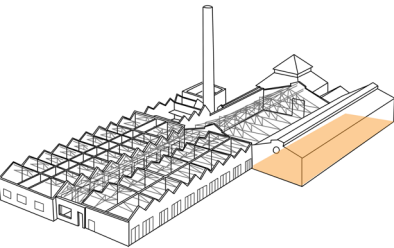
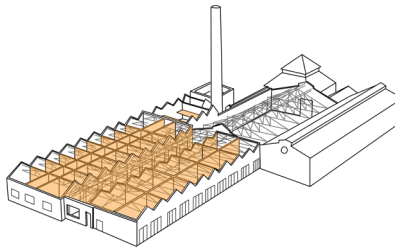
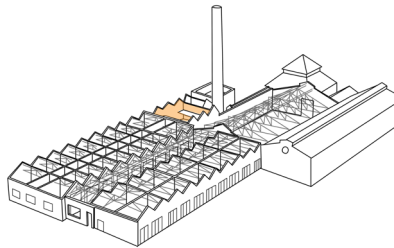
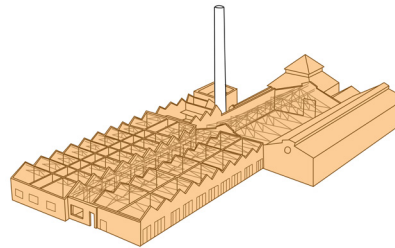
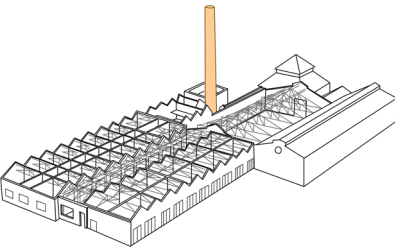
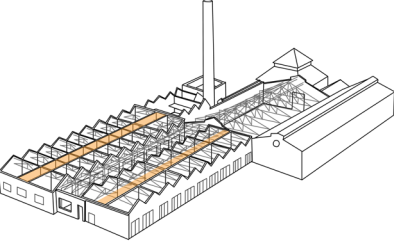
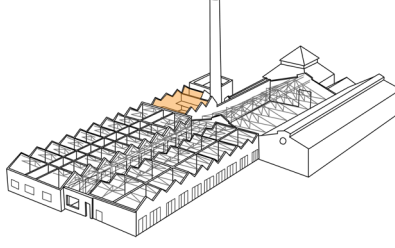
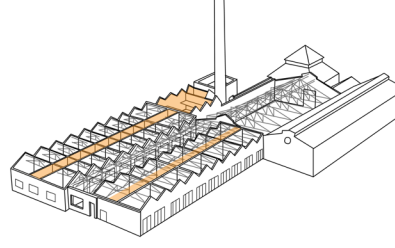
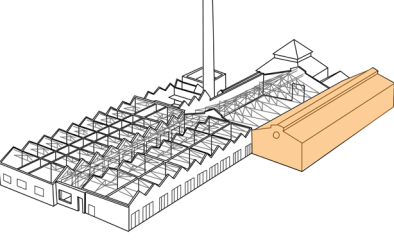
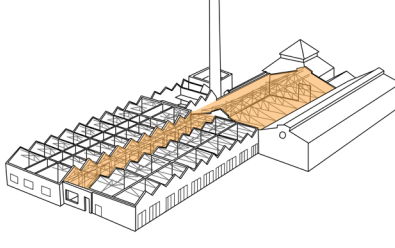
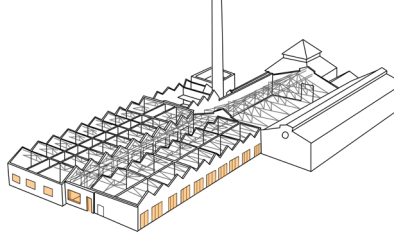
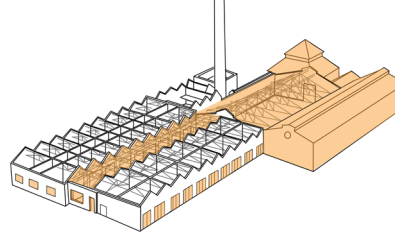
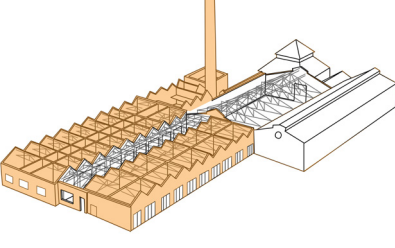
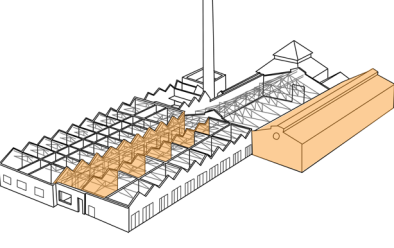
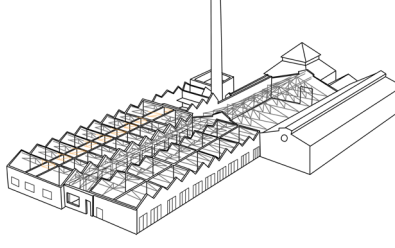
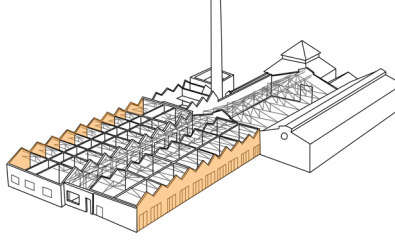
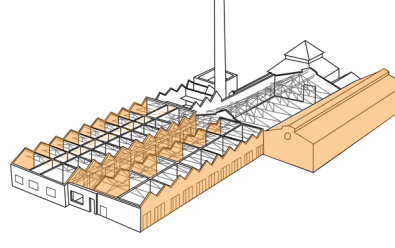
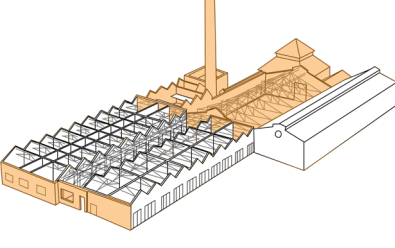
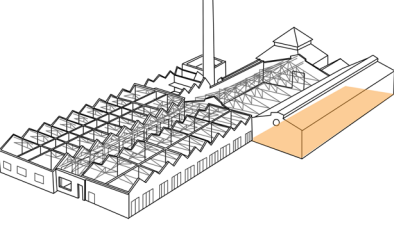
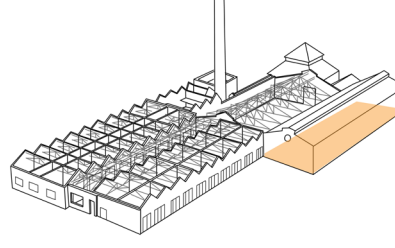
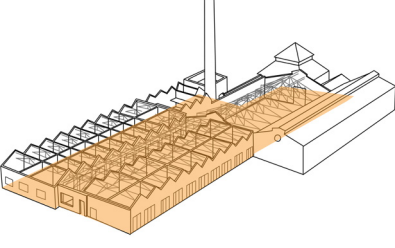
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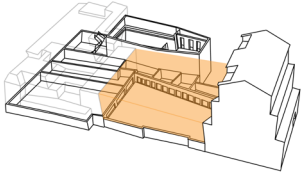
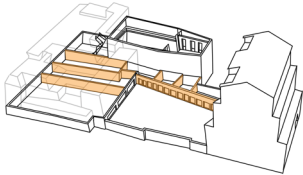
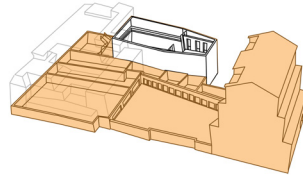
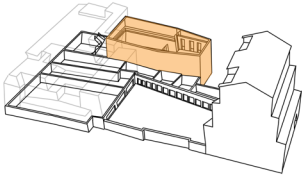
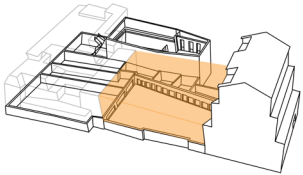
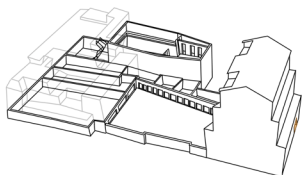
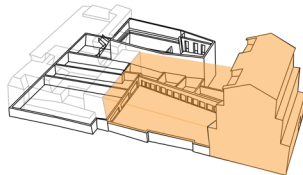
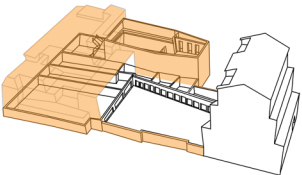
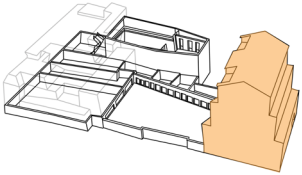
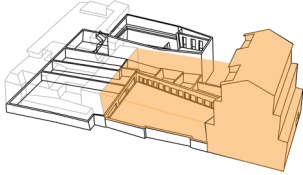
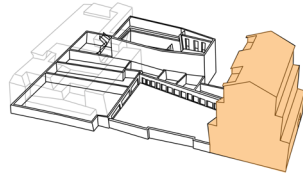
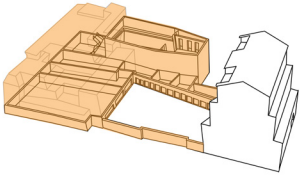
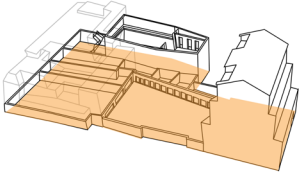
2.1 Classification of the Slaughterhouse

	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Space plan						
Services						
Skin						
Structure						
Site						

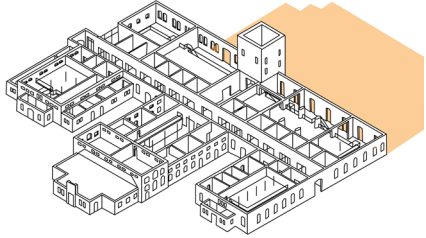
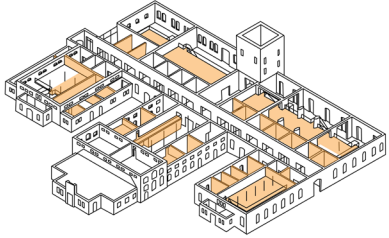
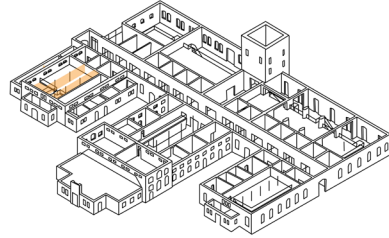
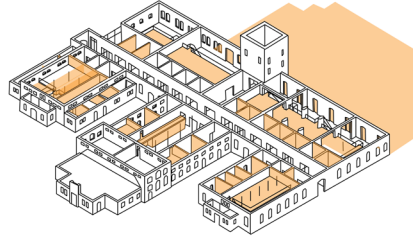
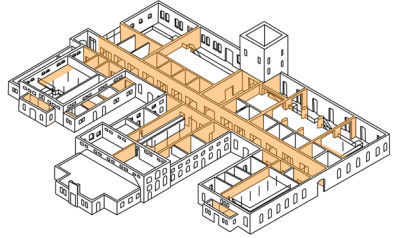
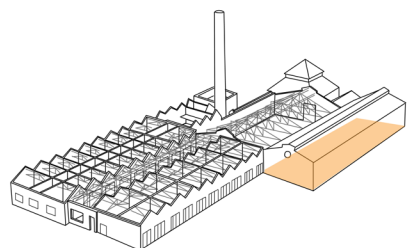
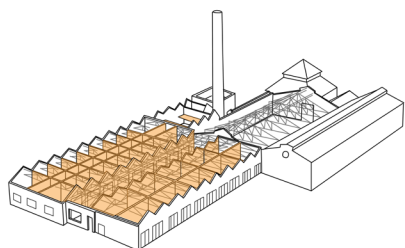
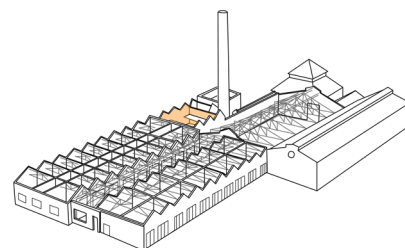
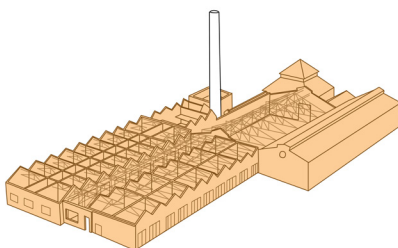
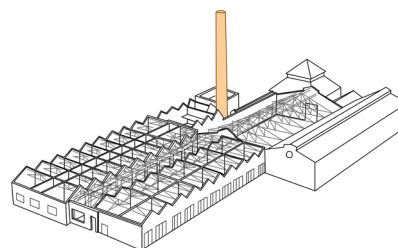
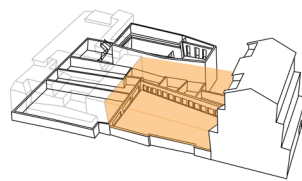
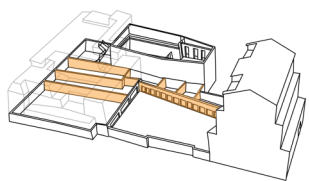
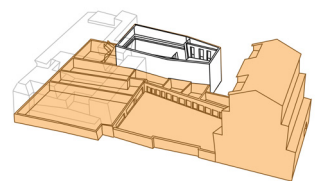
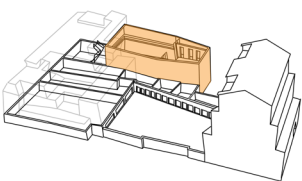
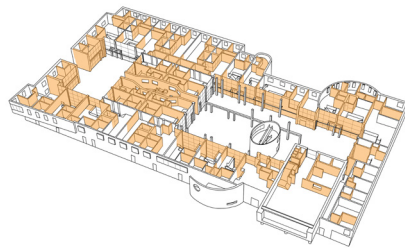
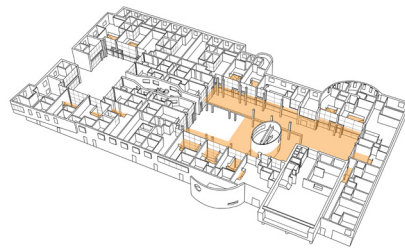
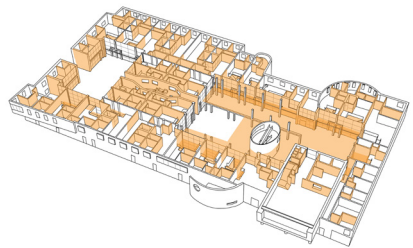
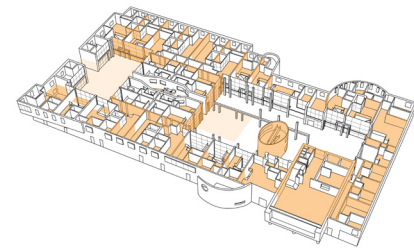
2.2 Classification of the Old rope factory

	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Space plan						
Services						
Skin						
Structure						
Site						

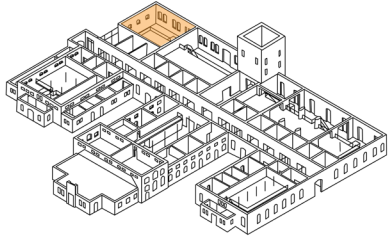
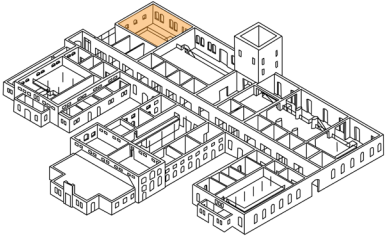
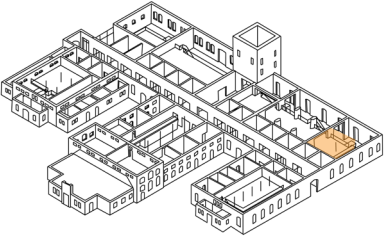
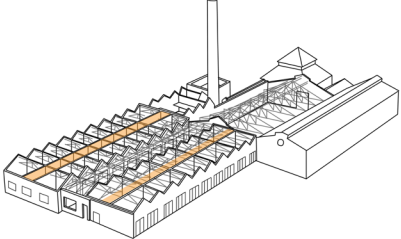
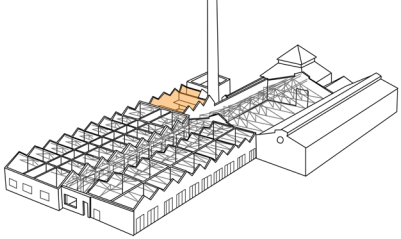
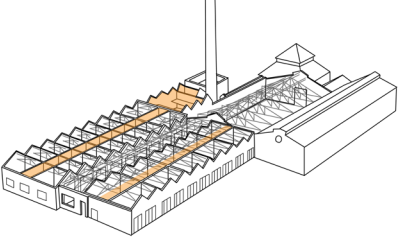
2.3 Classification of the Twentse theater

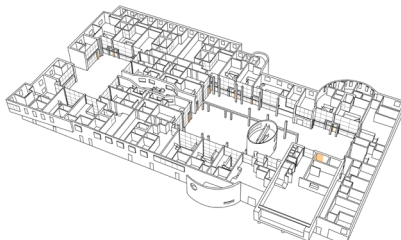
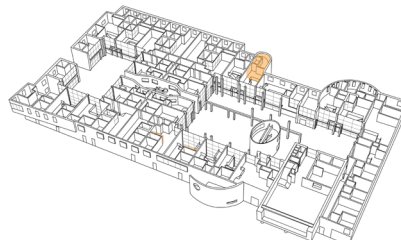
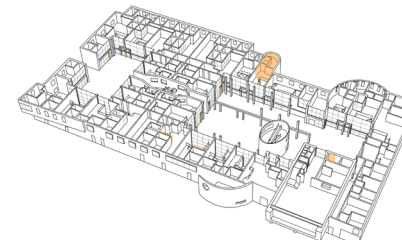
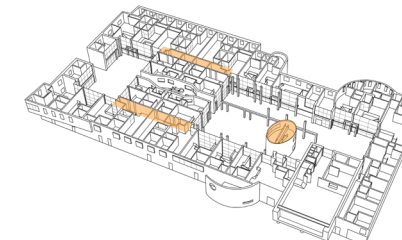
	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Space plan						
Services						
Skin						
Structure						
Site						

3.1 Comparison of the space plan

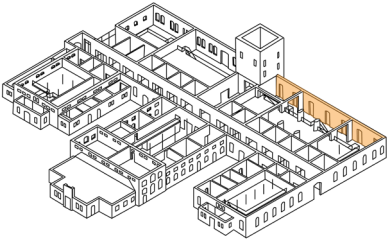
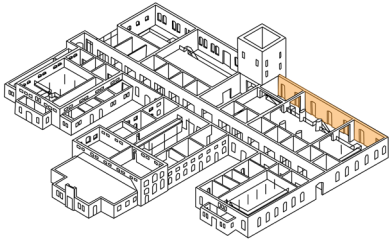
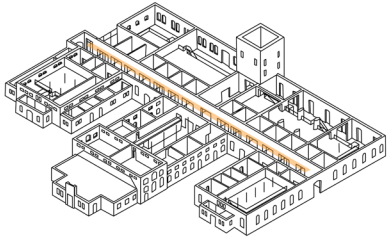
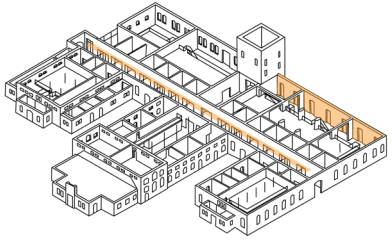
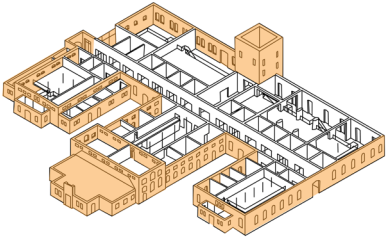
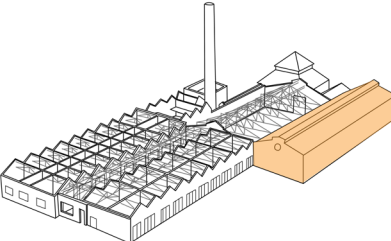
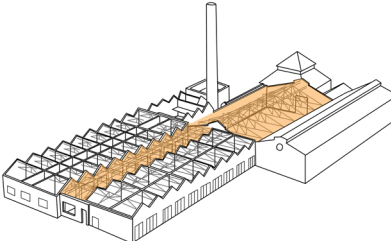
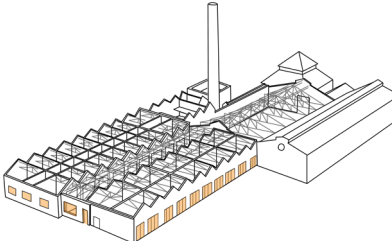
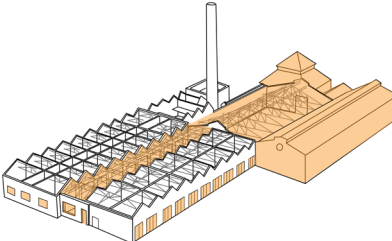
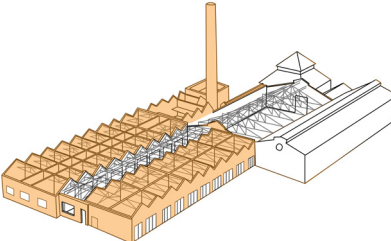
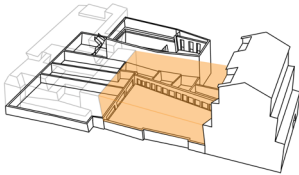
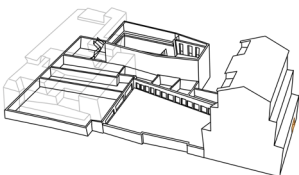
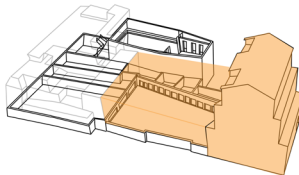
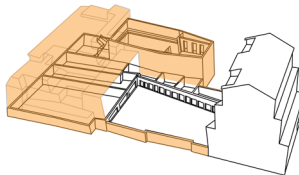
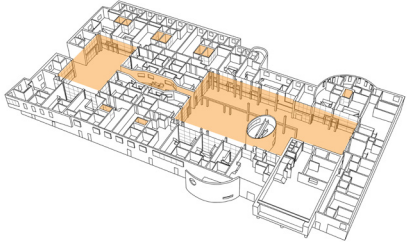
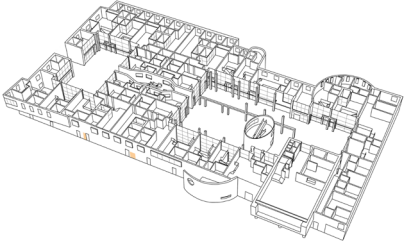
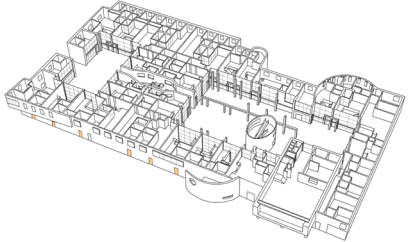
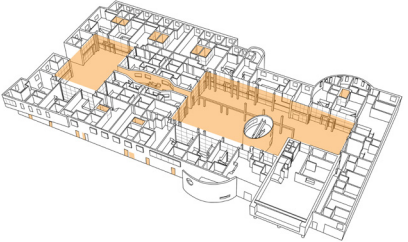
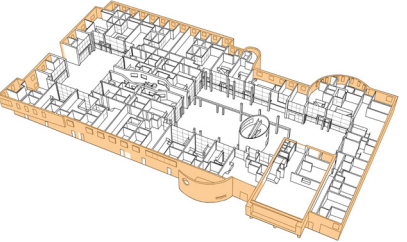
	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Slaughterhouse						
Rope factory						
Theater						
The Meervaat						

3.2 Comparison of the services

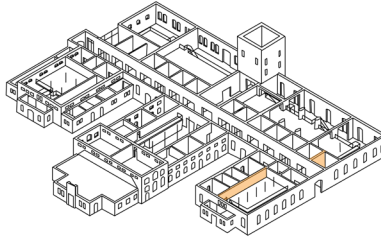
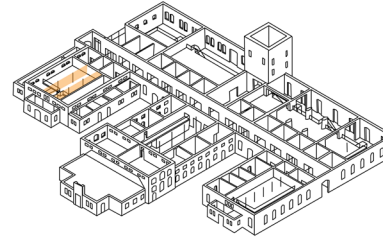
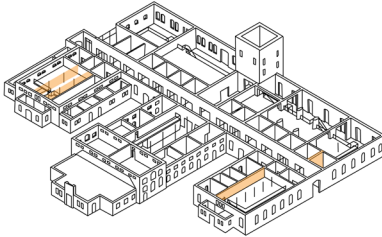
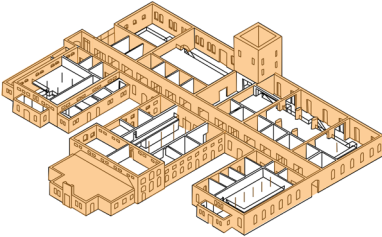
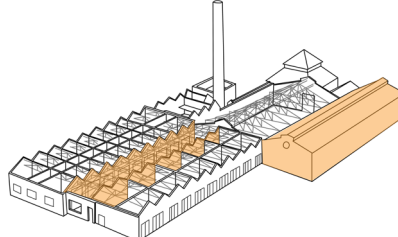
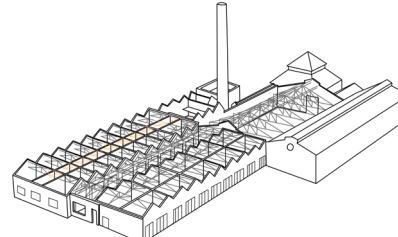
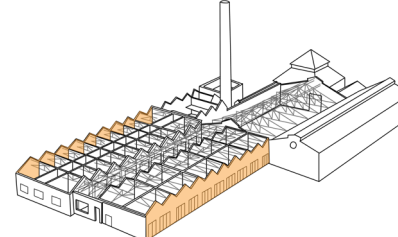
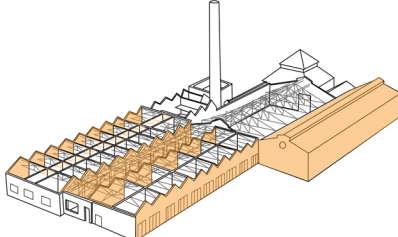
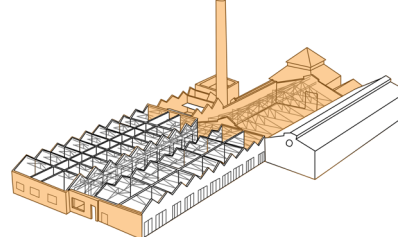
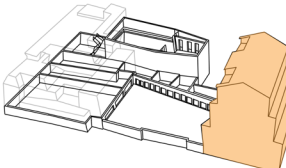
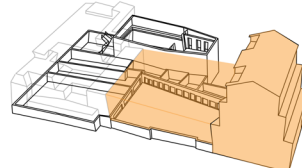
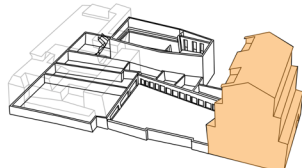
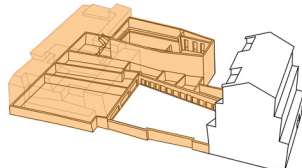
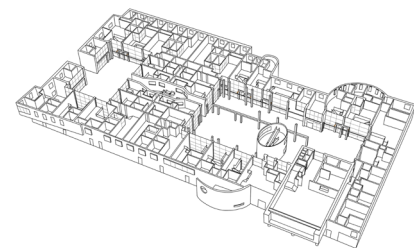
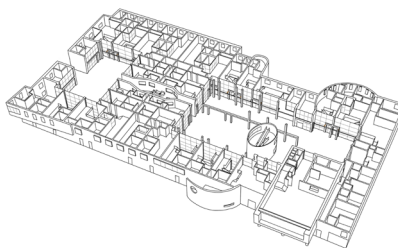
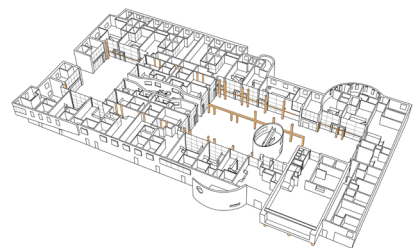
	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Slaughterhouse						
Rope factory						
Theater						

The Meervvaart						
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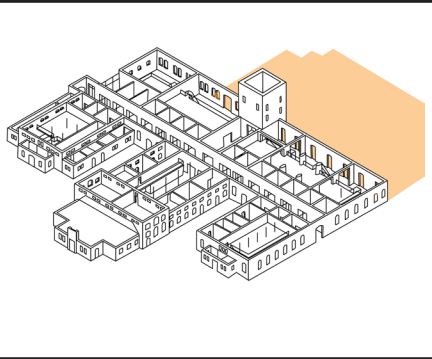
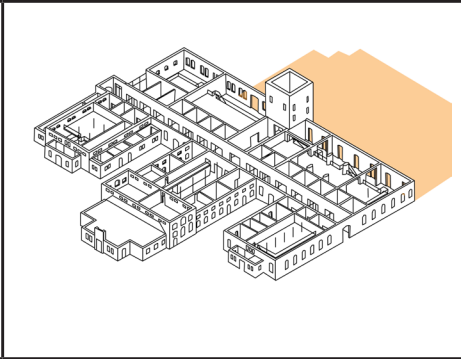
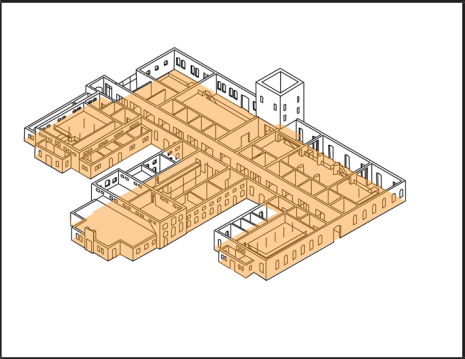
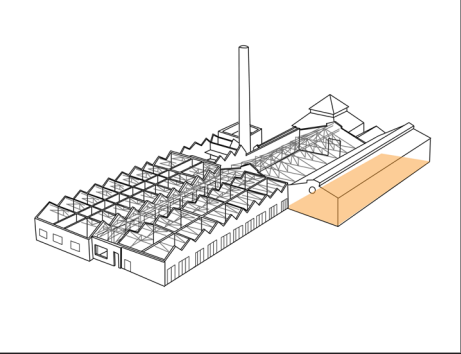
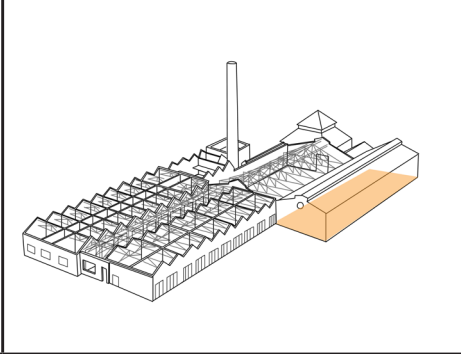
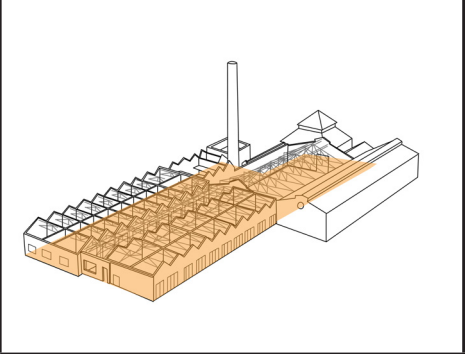
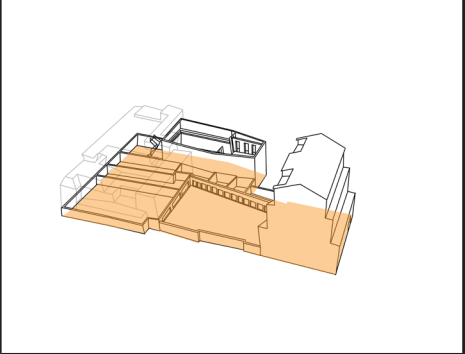
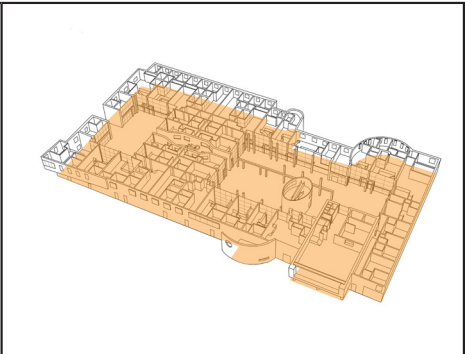
3.3 Comparison of the skin

	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Slaughterhouse						
Rope factory						
Theater						
The Meerwaard						

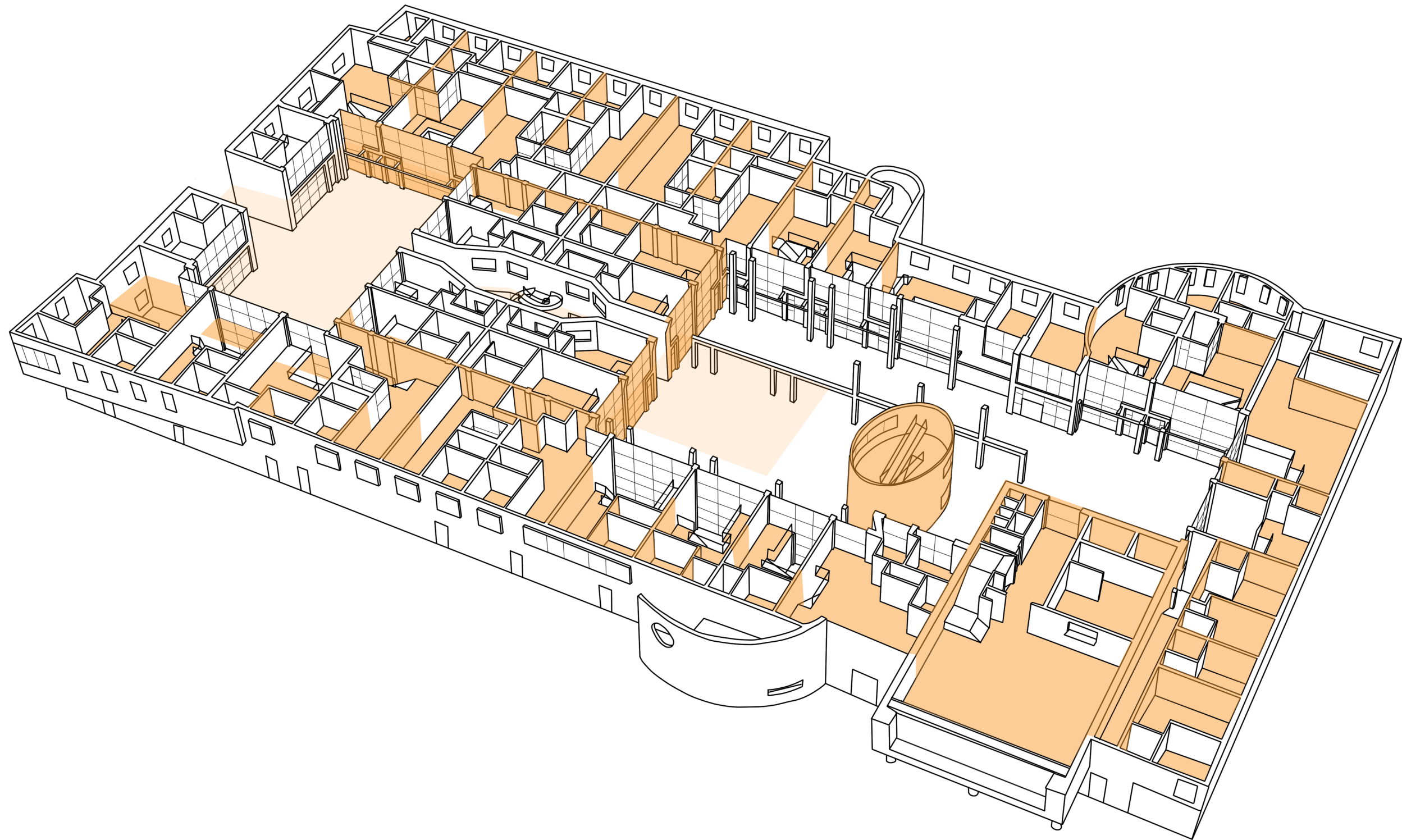
3.4 Comparison of the structure

	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Slaughterhouse						
Rope factory						
Theater						
The Meervaat						

3.5 Comparison of the site

	Adding	Subtracting	Splitting/Closing	Joining/Opening	Changing	Keep the same
Slaughterhouse						
Rope factory						
Theater						
The Meervaart						

Transforming buildings by design strategies



Transforming buildings by design strategies

