CoCuReSp Center

Parya Khodaeiani

Public Realm Studio - Rotterdam

31 October 2012

Index

Site Analysis

Group Research - Temporality

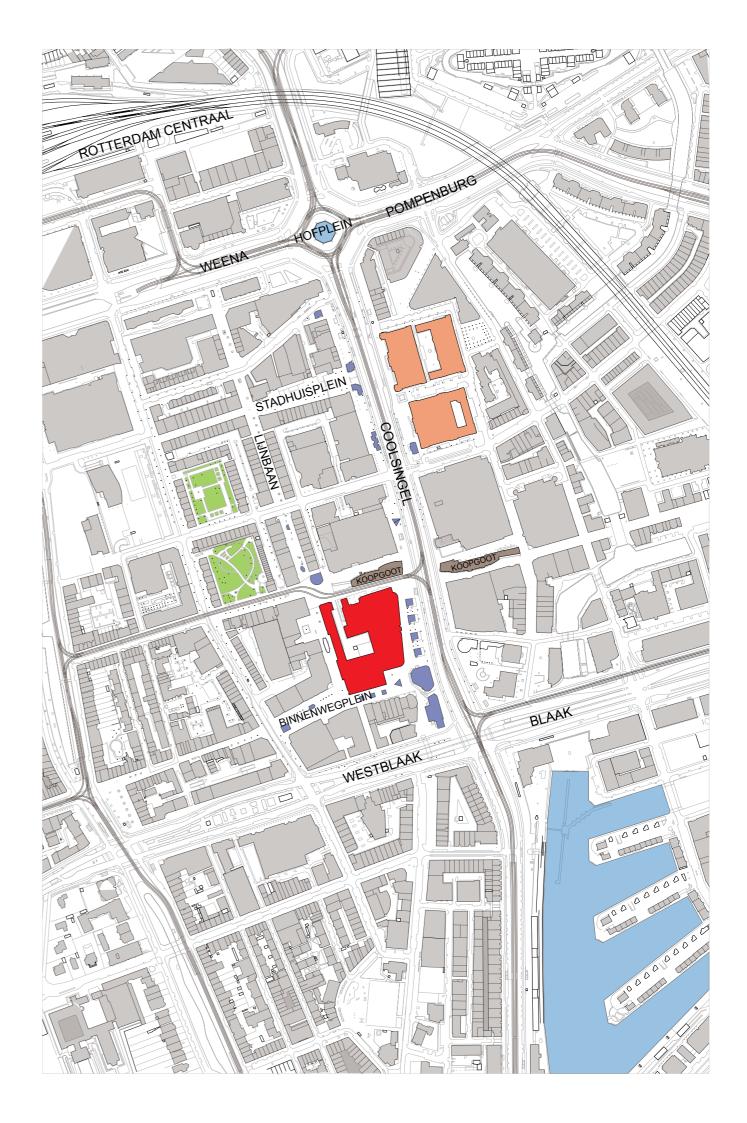
Urban & Building Masterplan

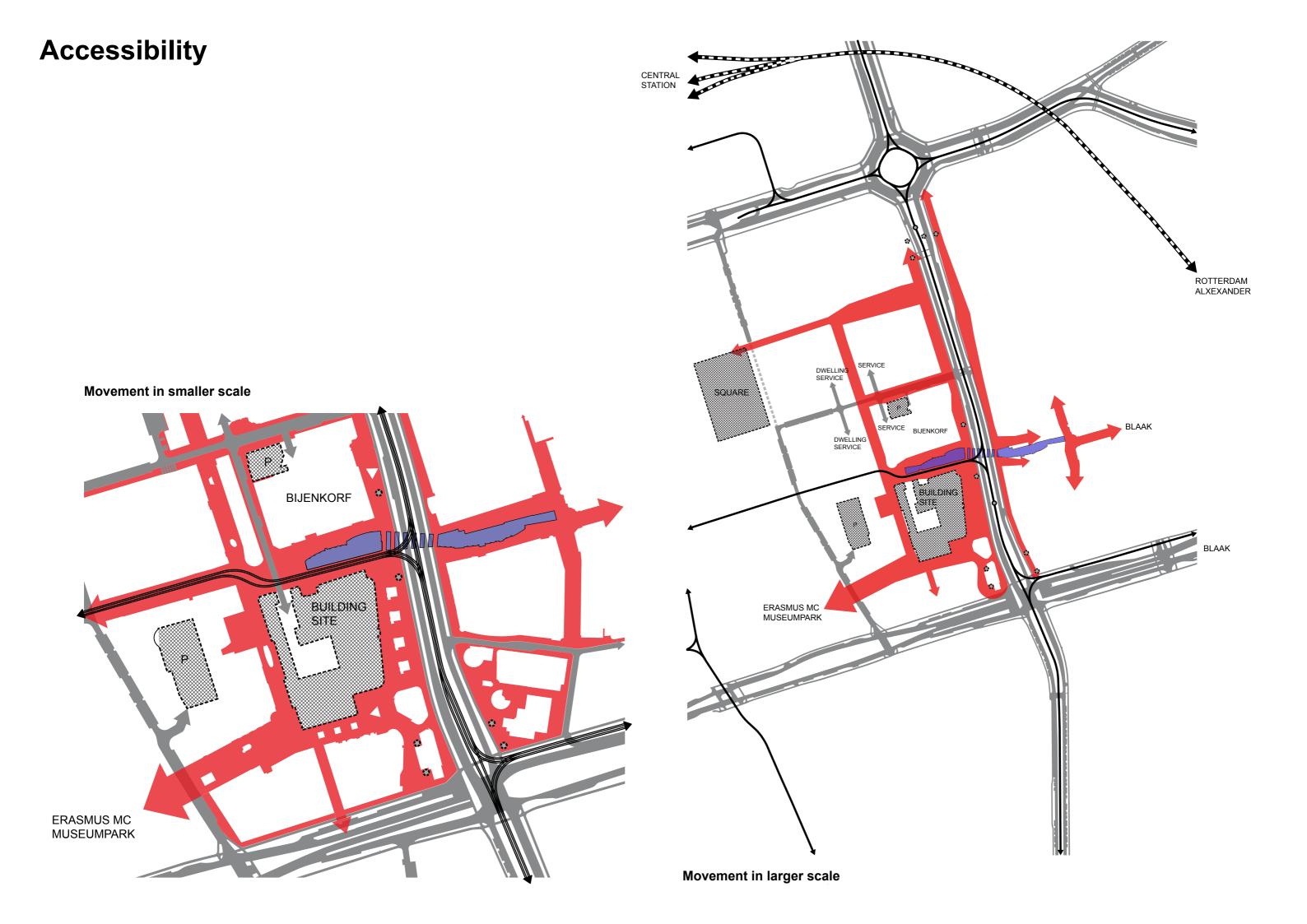
Process Review

Design

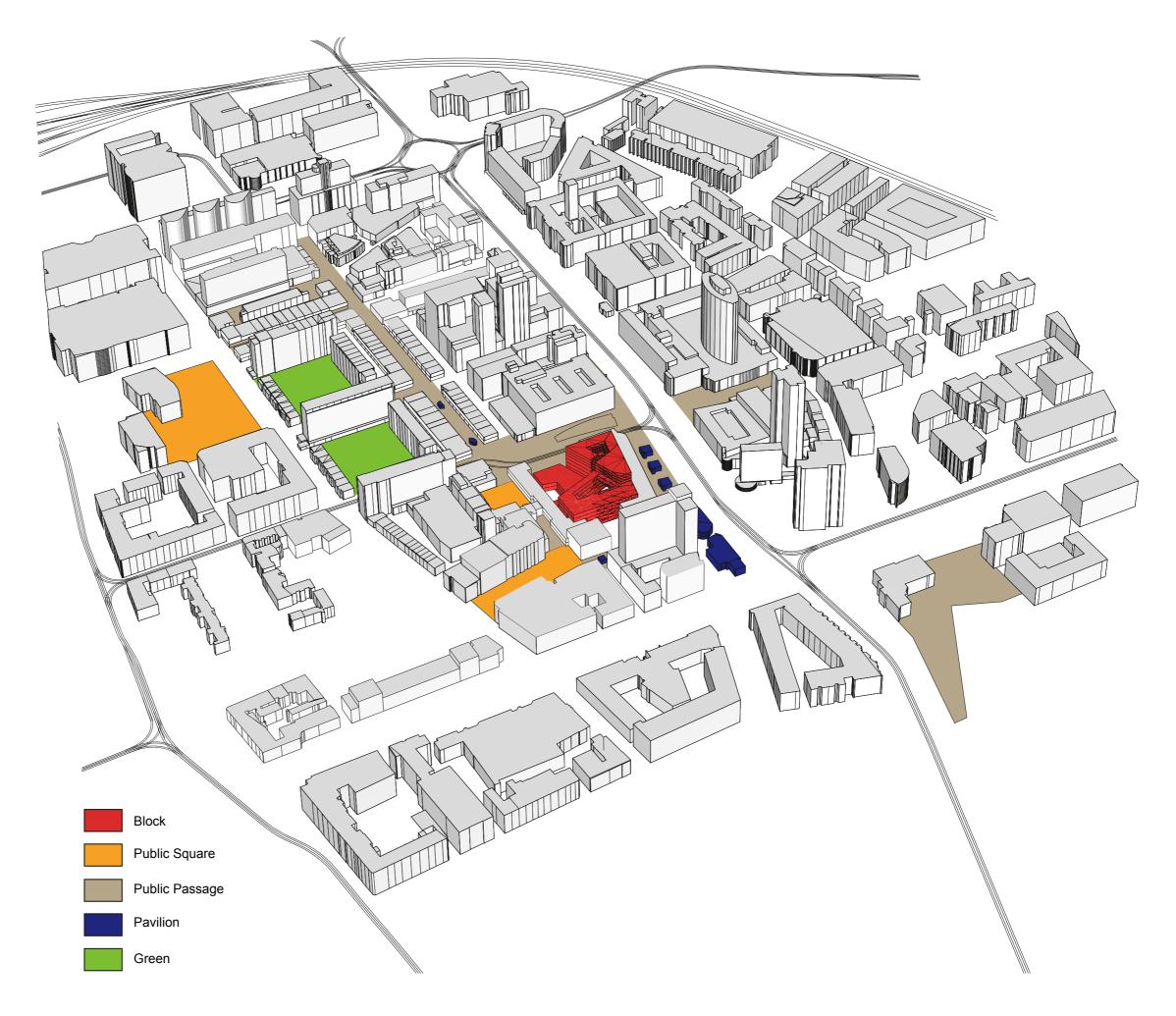
Technical Drawings

Site Analysis

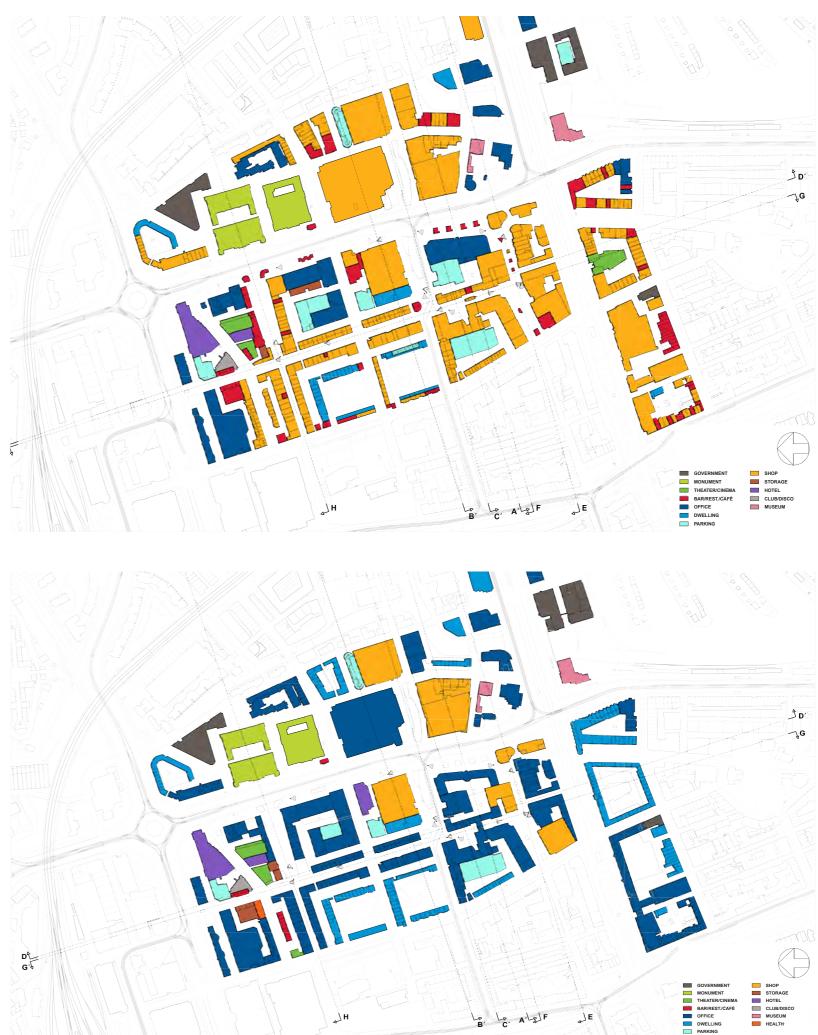




Public Spaces around the Site



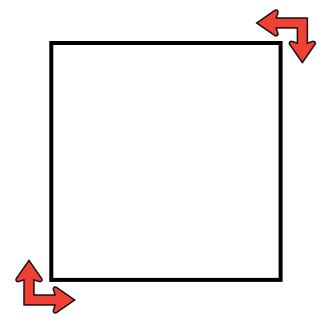
Programmatic Studies

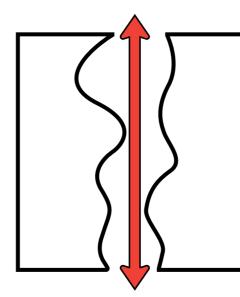


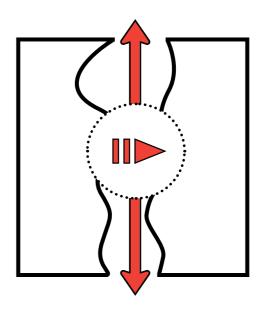
Ground Floor

First Floor

Block Studies

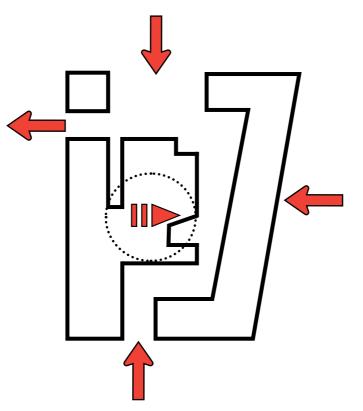






- A. Blocks are mainly accessible from the edges
- B. Breaking through the blocks

C. Defining a pause space inside the block



D. Providing connection from public squares and main streets around the block

Research

Temporality

Structuring Temporalities

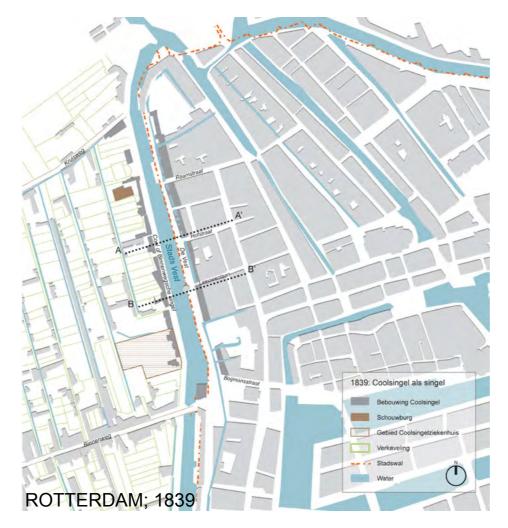
Temporality is a term often used in philosophy in talking about the way **time** is. The traditional mode of temporality is a linear progression of **past**, **present**, and **future**. However, some modern-century philosophers have interpreted temporality in ways other than this linear manner such as Martin Heidegger's "Being and Time".

Temporality is a study of social, spatial and programmatic situation of different scales of spaces in time.

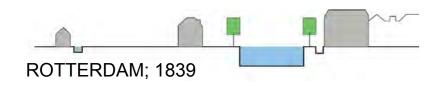
The focus of the research differs from the **smaller scale** that shows the urban artifacts and how they would produce or reduce a quality of space to the **larger scale** that is the Rotterdam center and how it works in different times of the **days**, **seasons** and **years**.

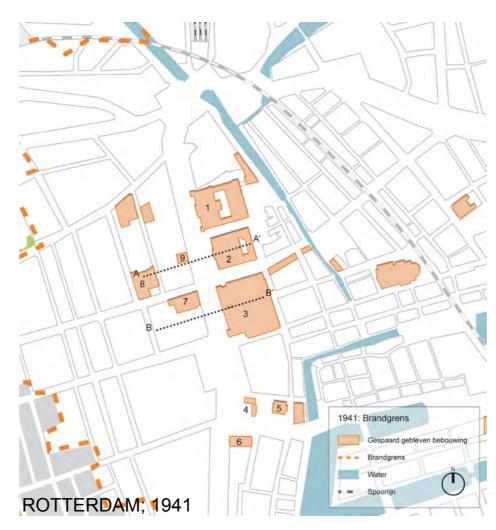


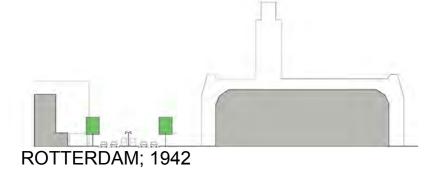
Temporality in years HISTORICAL ALTERATIONS















COOLSINGEL; 1880



COOLSINGEL; 1930



COOLSINGEL; 1946



COOLSINGEL; 1970

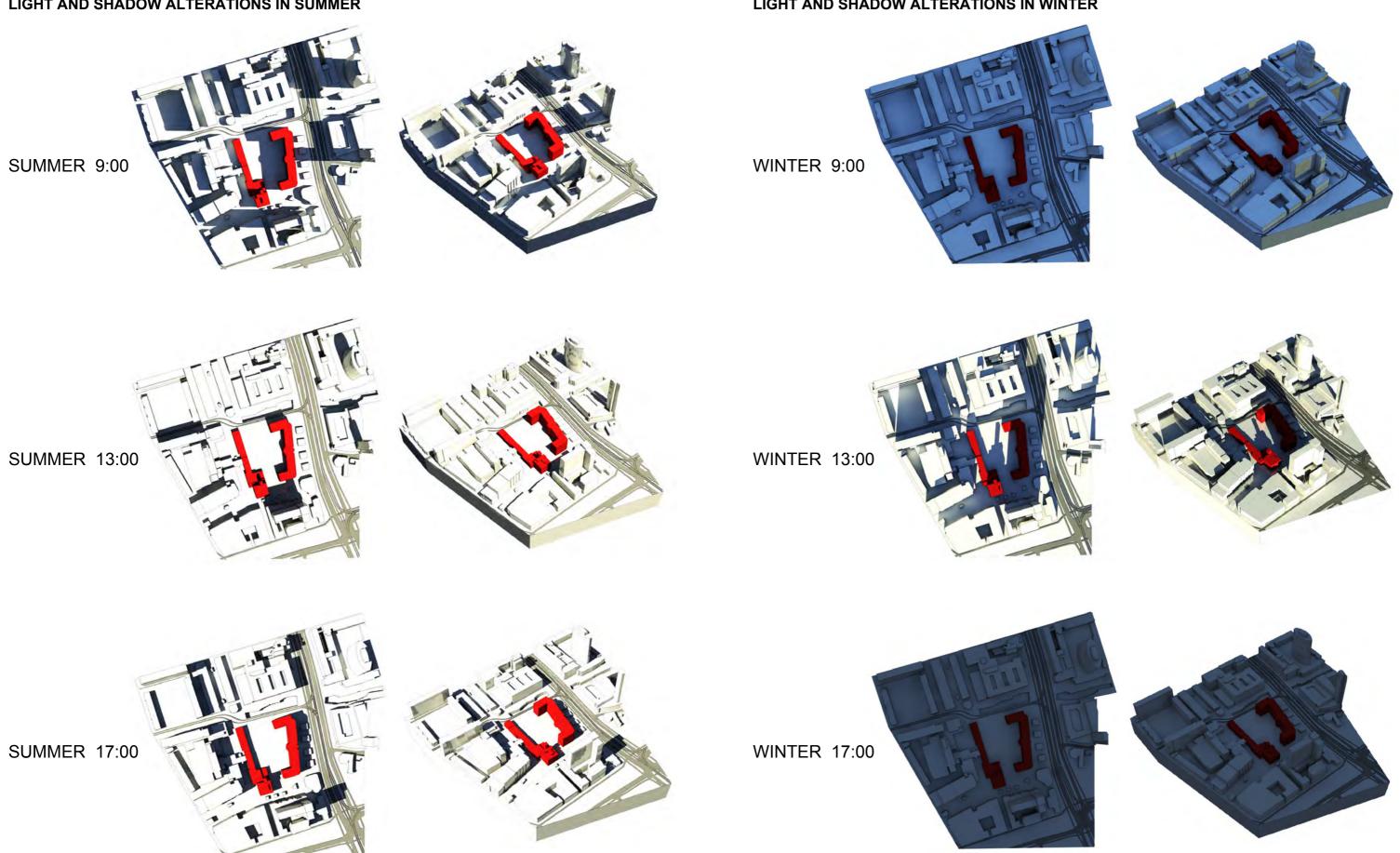


Temporality in seasons

LIGHT STUDY

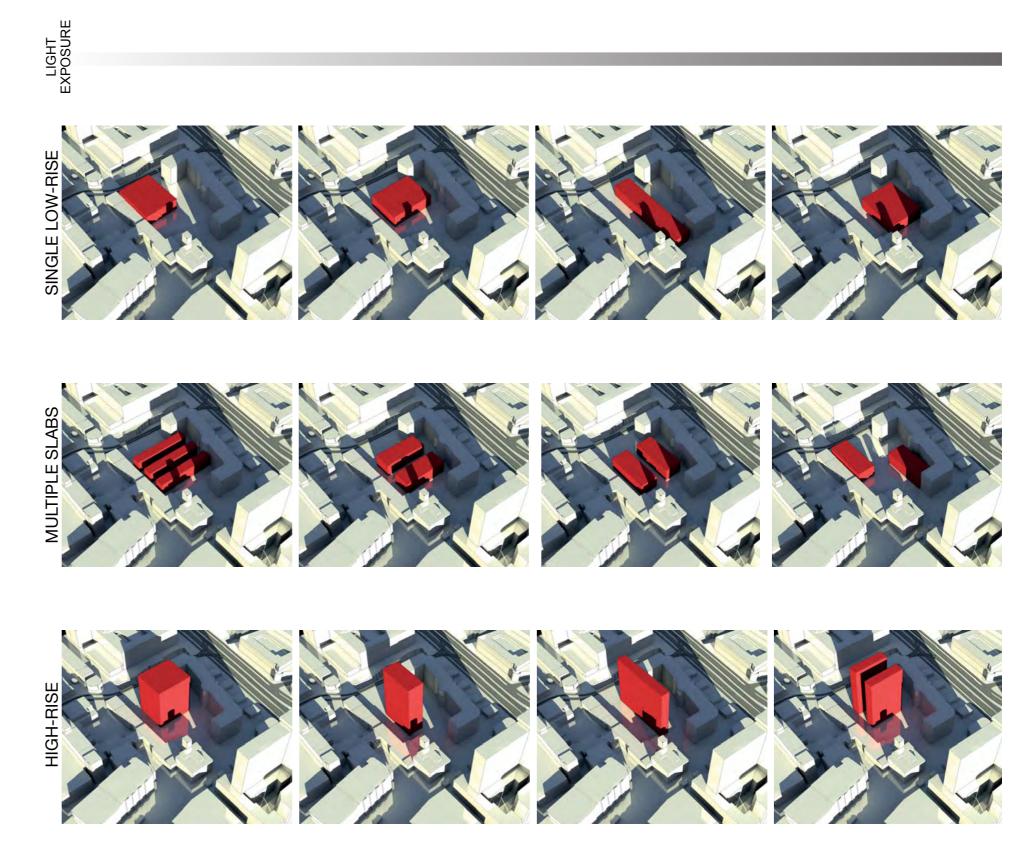
LIGHT AND SHADOW ALTERATIONS IN SUMMER

LIGHT AND SHADOW ALTERATIONS IN WINTER



Temporality in seasons

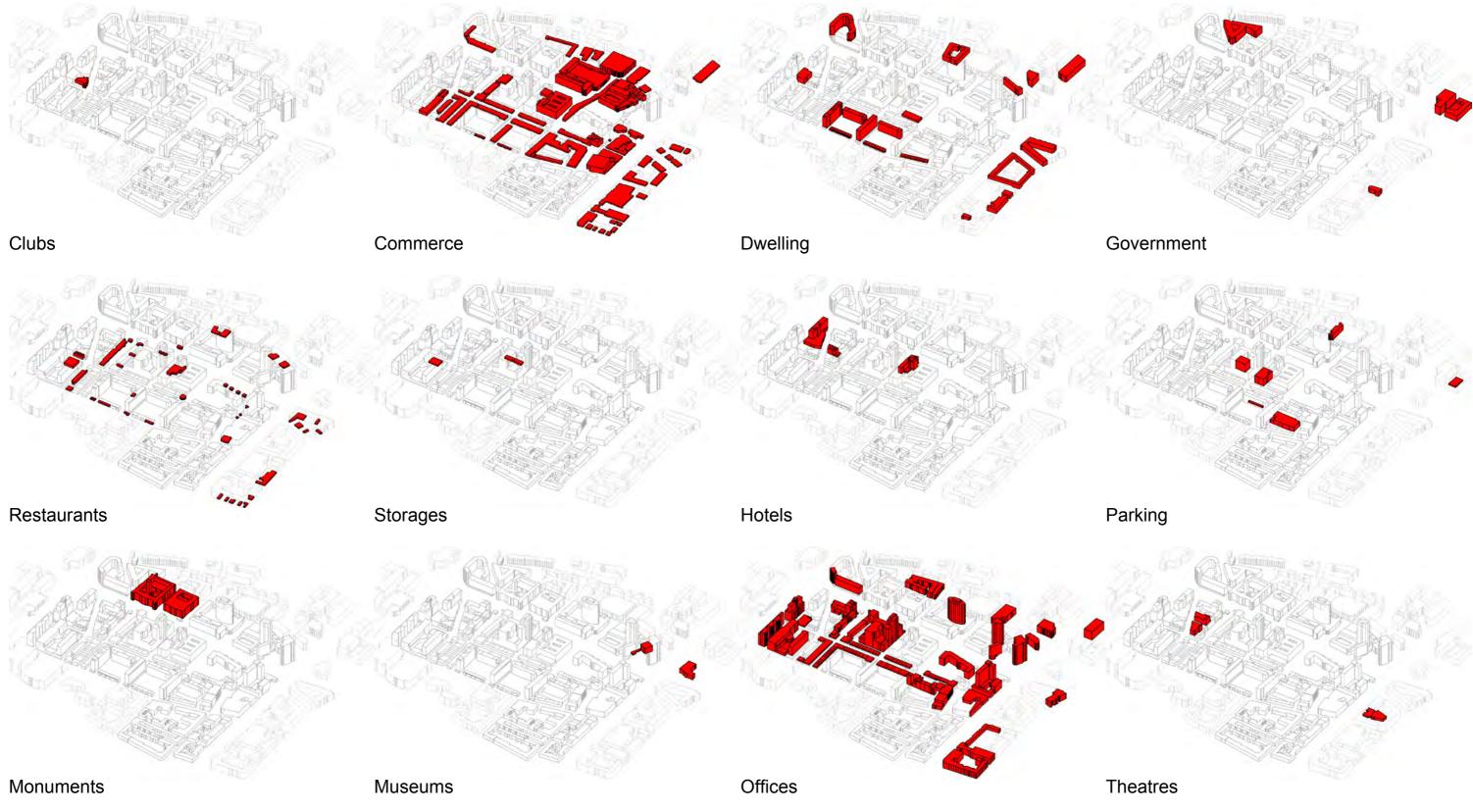
LIGHT EXPOSURE



VOLUME ALTERNATIVES AND THEIR INFLUENCES ON THE SURROUNDINGS

Temporalities in Days

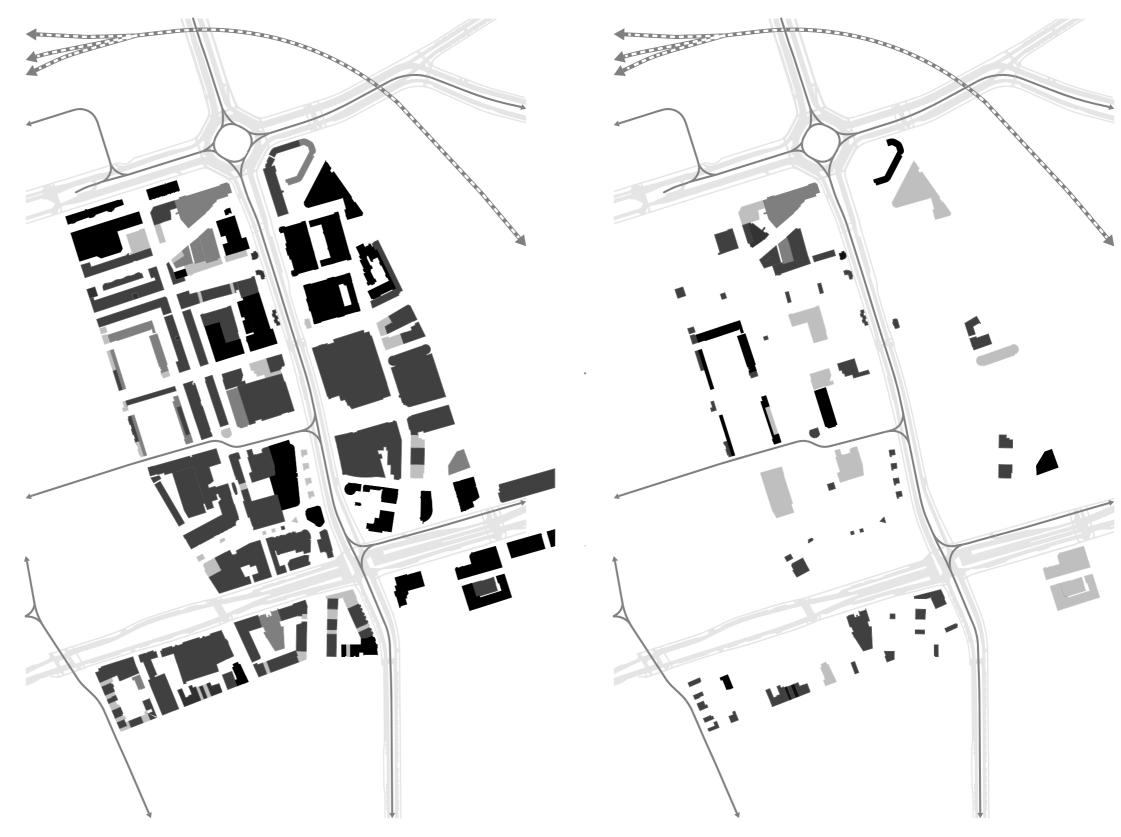
PROGRAMMATIC STUDIES



Functional clusters shown in city perspective

Temporality in Days

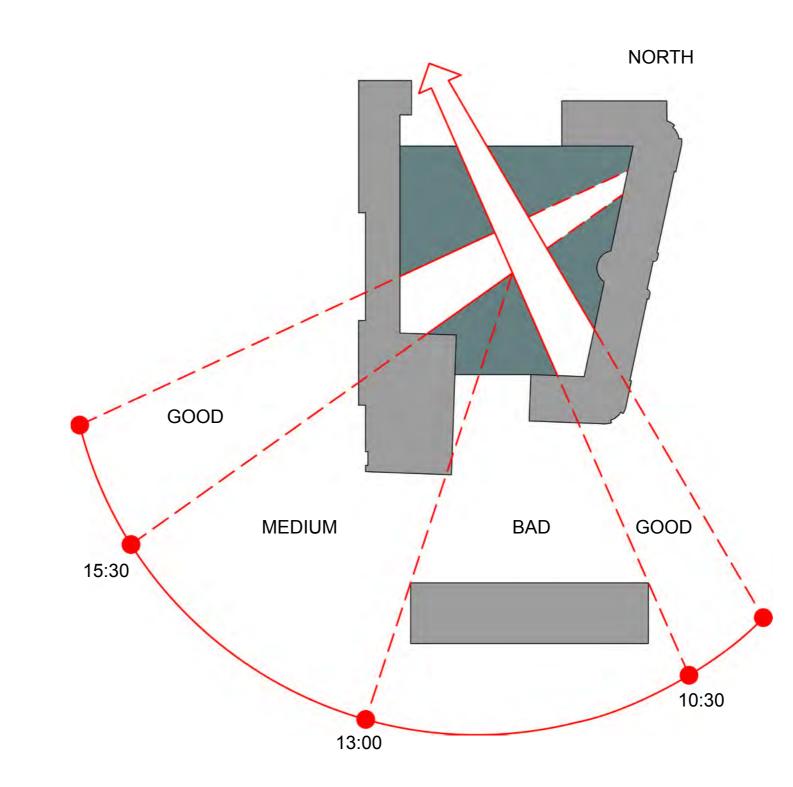
INTENSITY AND ACTIVITY OF USE



Intensity and Activity of Use_ Day

Research Conclusion

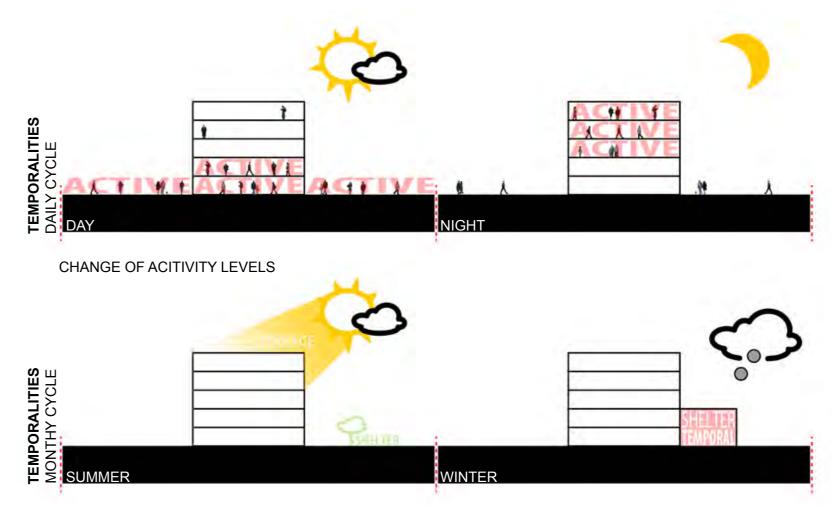
LIGHT CONDUCTION



LIGHT EXPOSURE DIAGRAM

Research Conclusion

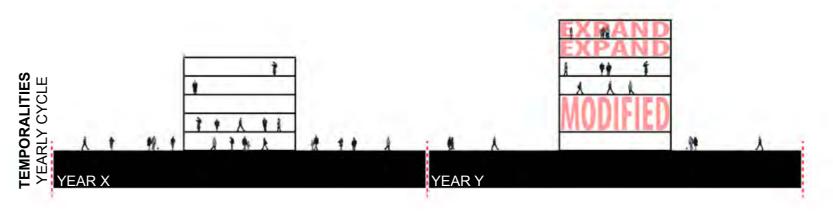
TEMPORAL STRUCTURES



CHANGE IN USE OF SPACE THROUGH DIFFERENT SEASONS



PROGRAMMATIC MODIFICATIONS

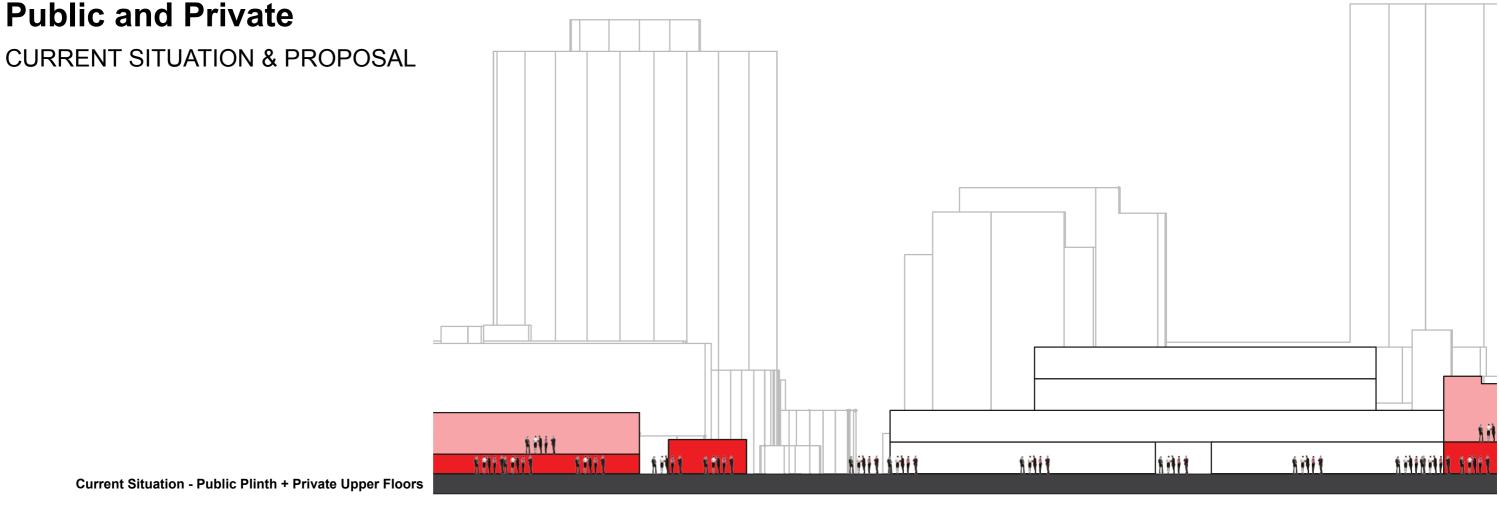


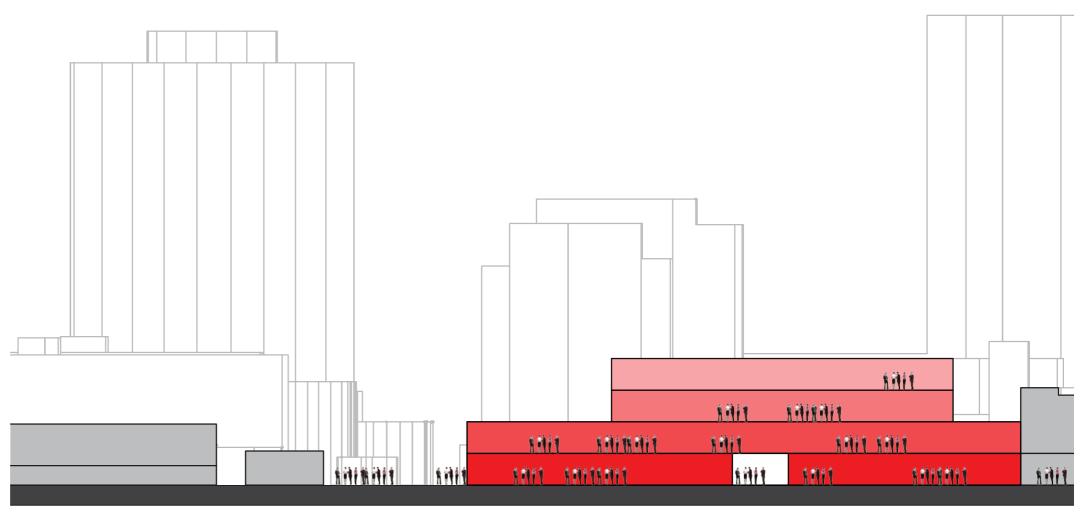
SPATIAL MODIFICATIONS / SPATIAL EXPANSIONS



Masterplan

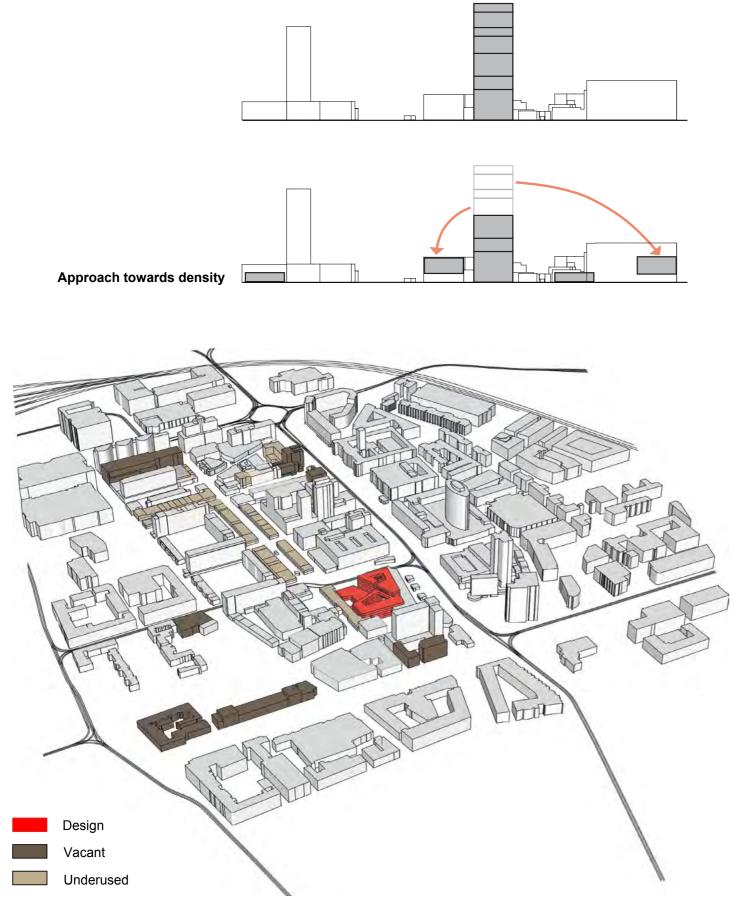
Public and Private





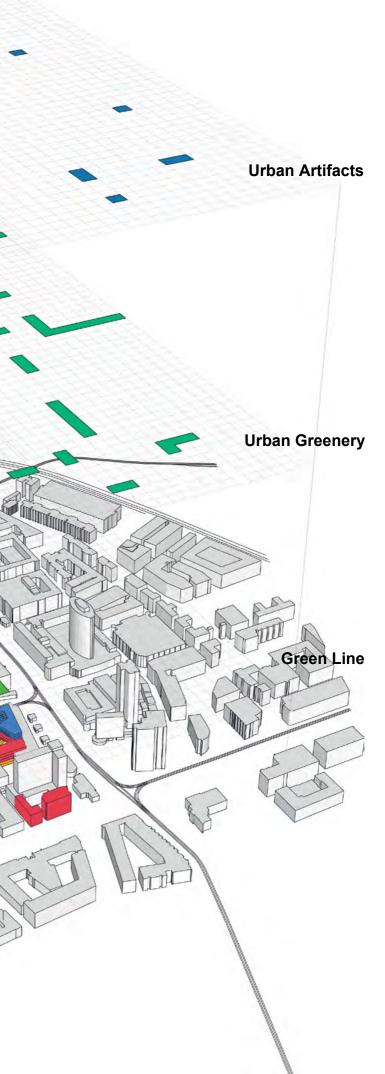
Urban Masterplan

CURRENT SITUATION & PROPOSAL



Current situation - intensity of vacant and underused buildings in city center

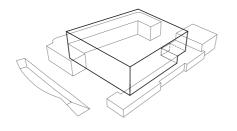
Urban Masterplan



Articulating Building Mass

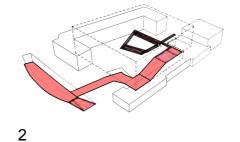
Process of articulating the building mass

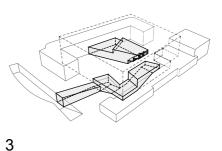
- 1. Filling the block with a mass
- 2. Defining the Route
- 3. Defining the voids
- 4. Carving through the mass



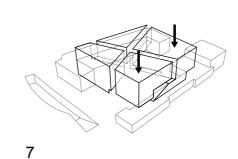
1

5

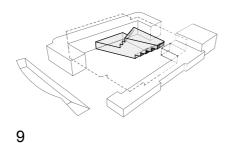


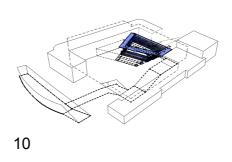


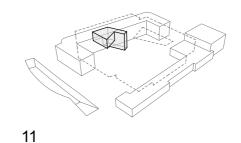
6



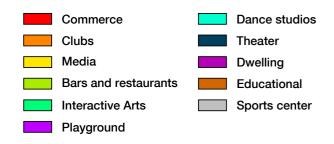
- Carving the routing out 5.
- 6. The best light cutting the mass into pieces
- 7. The pieces shifting down according to light
- 8. Carving the mass according to light and routing

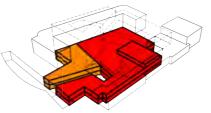


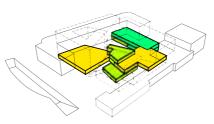


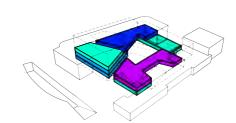


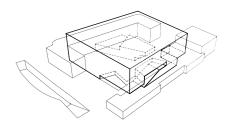
- 9. The first void
- 10. The circulation in the void
- 11. The second void
- 12. The second circulation system through the void

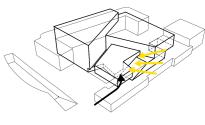




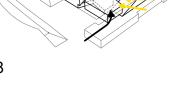


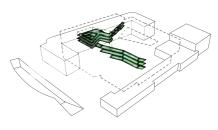




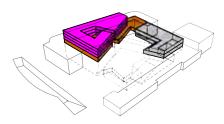


8





12

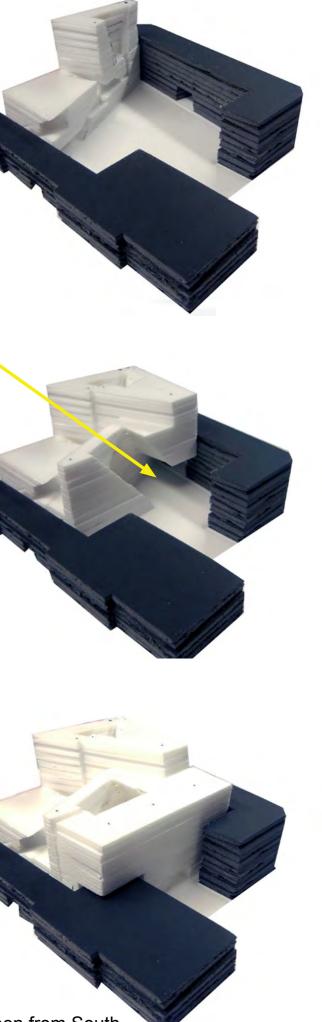


Building Masterplan



Sequence of sections seen from North

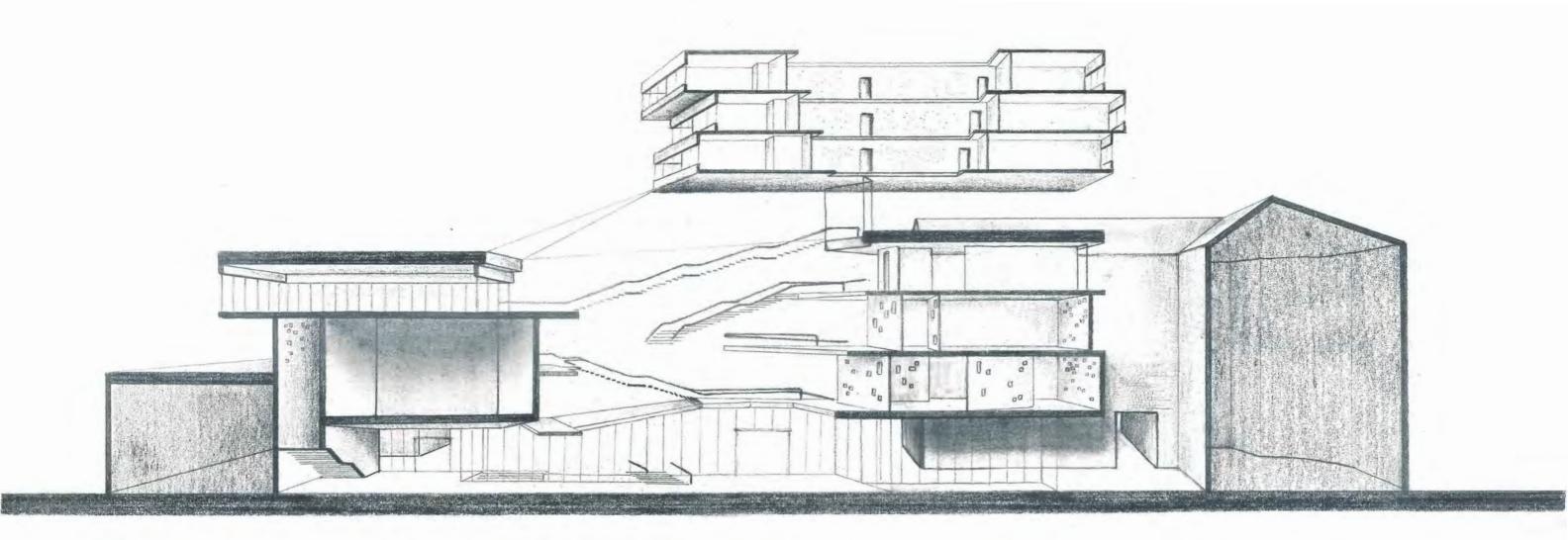
Sequence of sections seen from South



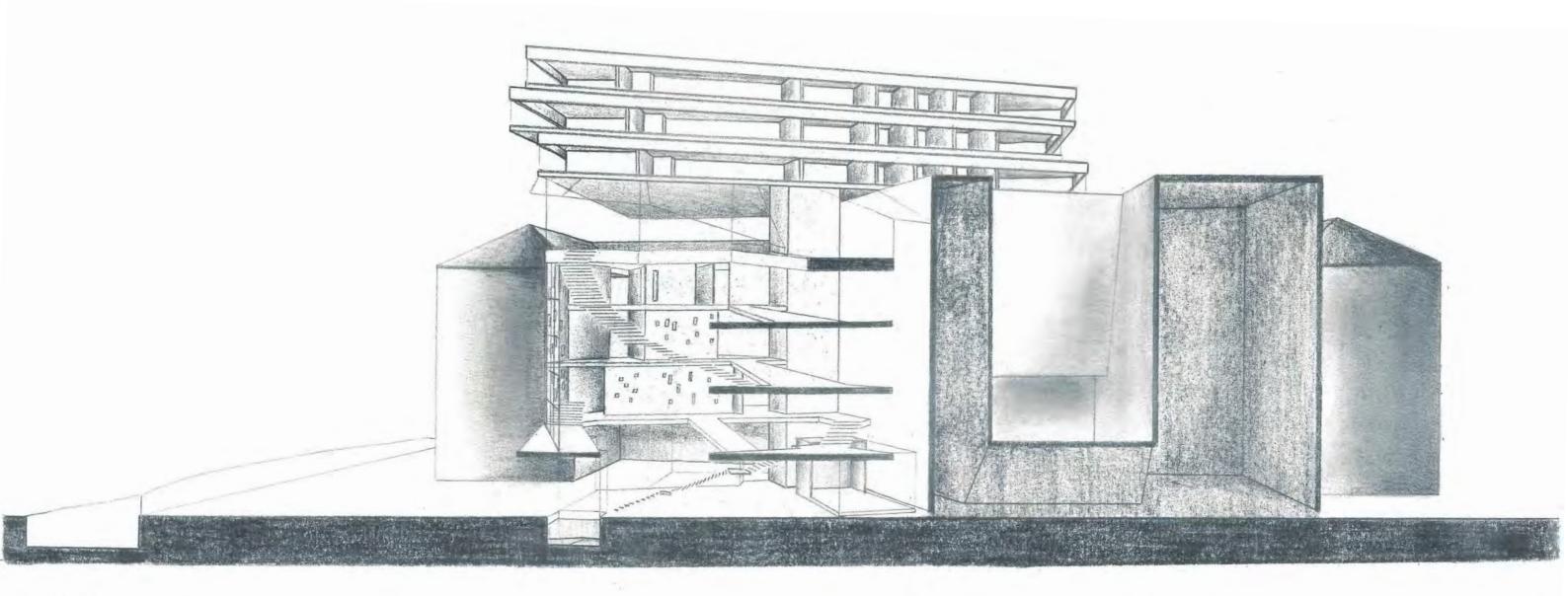
Process Preview

First Spatializaion

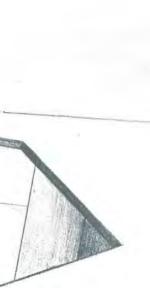
HAND DRAWINGS



A_A

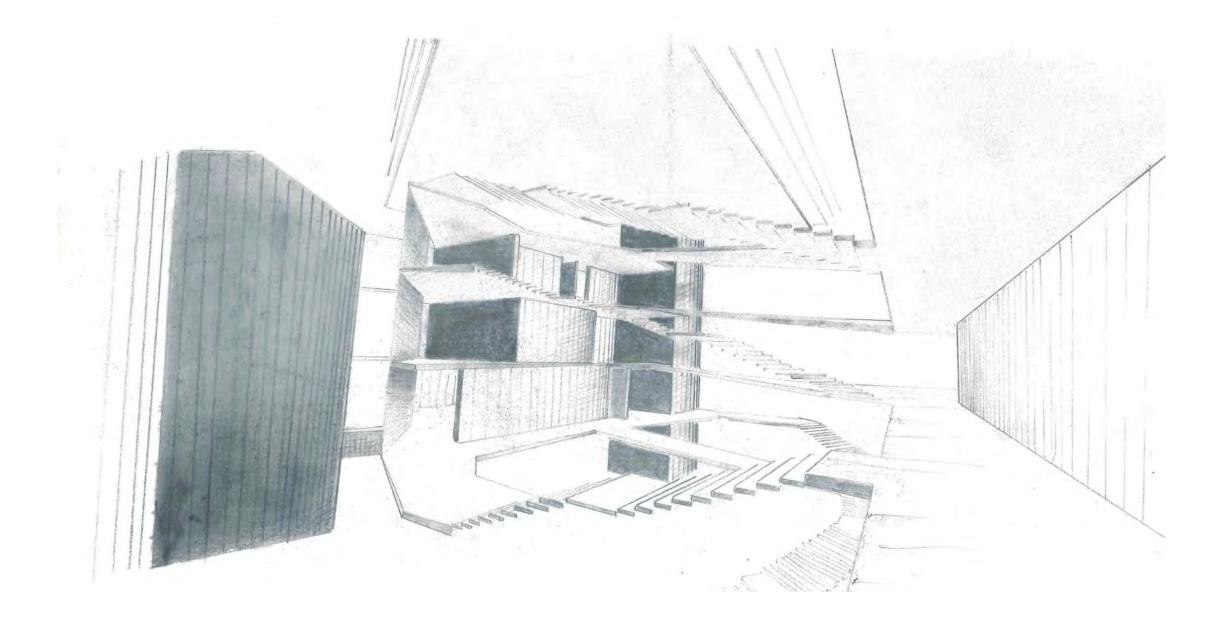


First Spatializaion VIEW FROM THE ROOFTOP



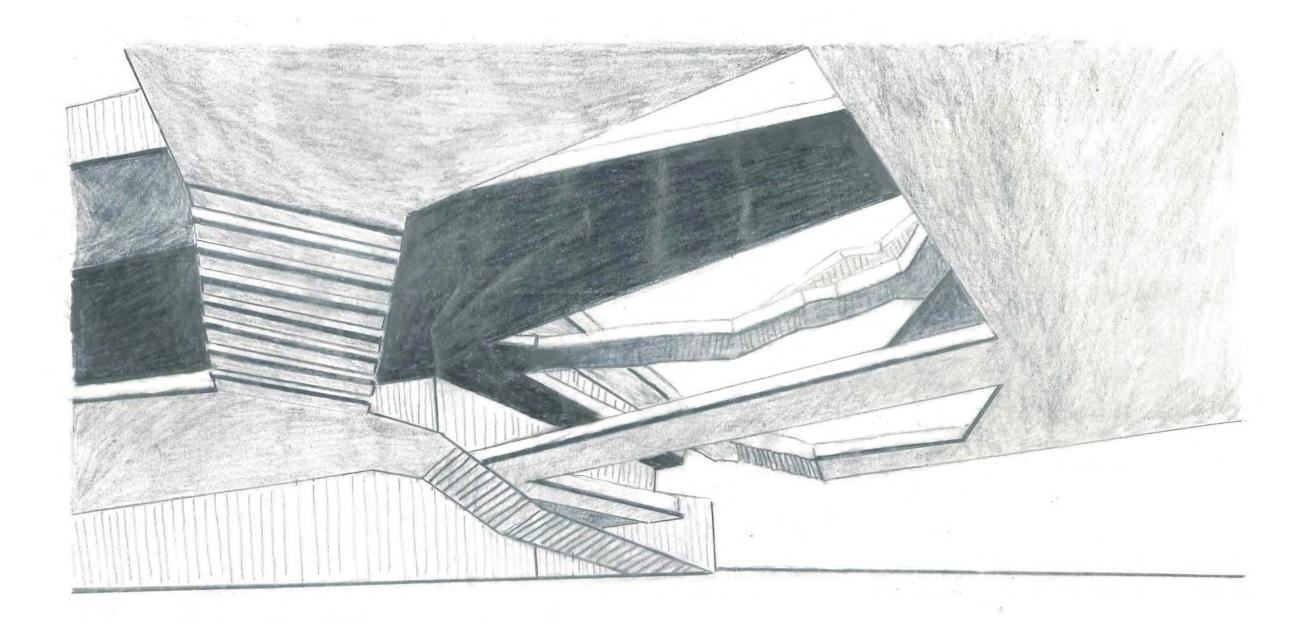
First Spatializaion

VIEW FROM THE SECOND FLOOR

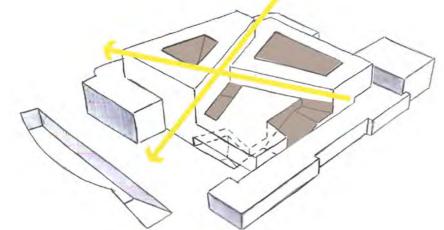


First Spatializaion

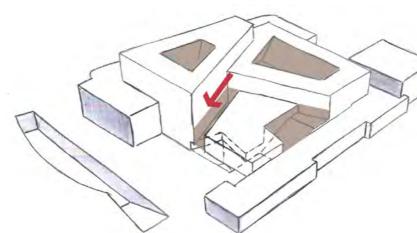
VIEW FROM THE GROUND FLOOR



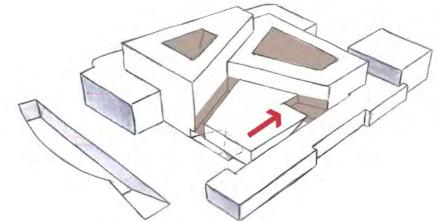
Transforming the Masterplan

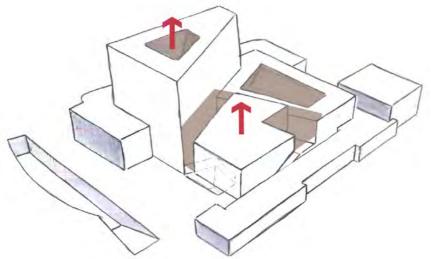


A. Masterplan with cuts according to light transmission

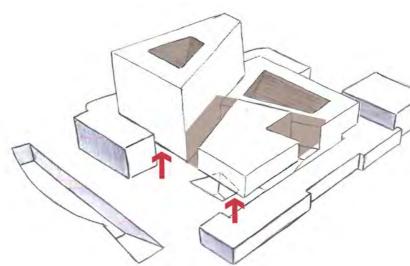


B. Moving the void towards the facade



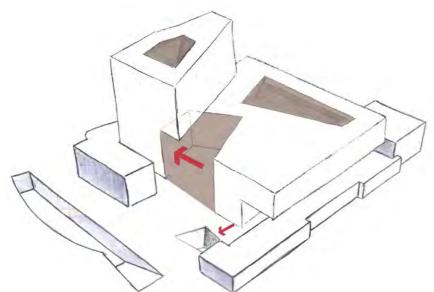


D. Increasing the height of the public levels

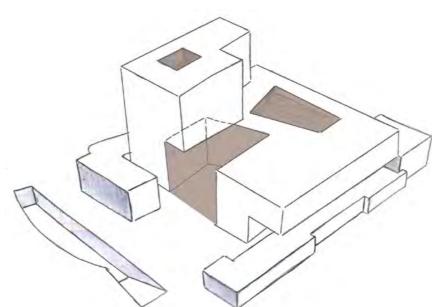


E. Lifting volumes to provide a pause space in the plinth

F. Moving the volume towards Lijnbaan

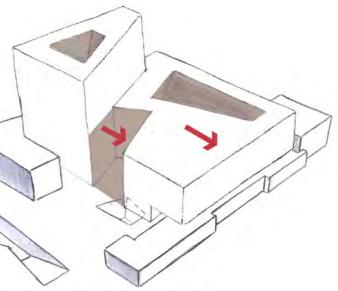


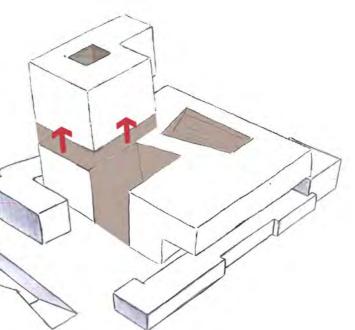
G. Widening the void to catch more light, moving the connection to Koopgoot to the public open space



H. Transforming the residential mass for more efficient spaces

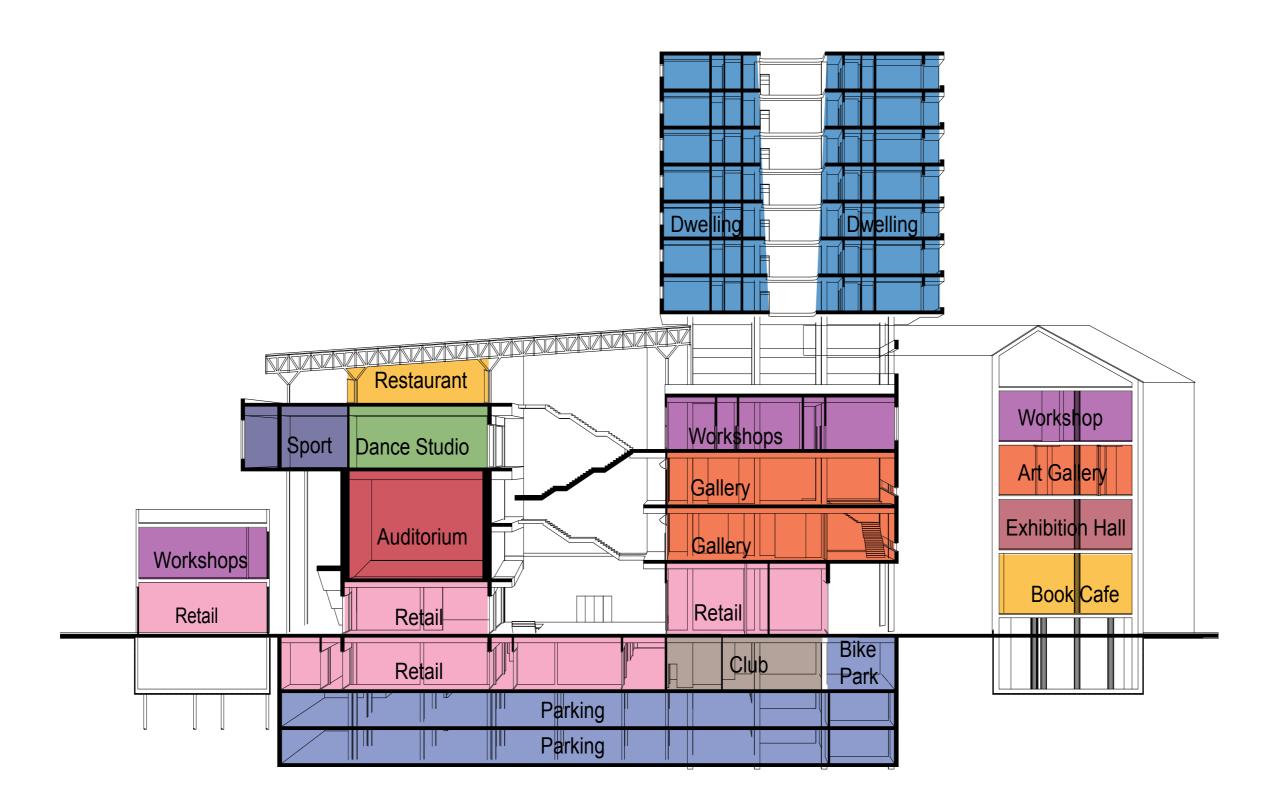
C. Covering the stairs to Lijnbaan Rooftop



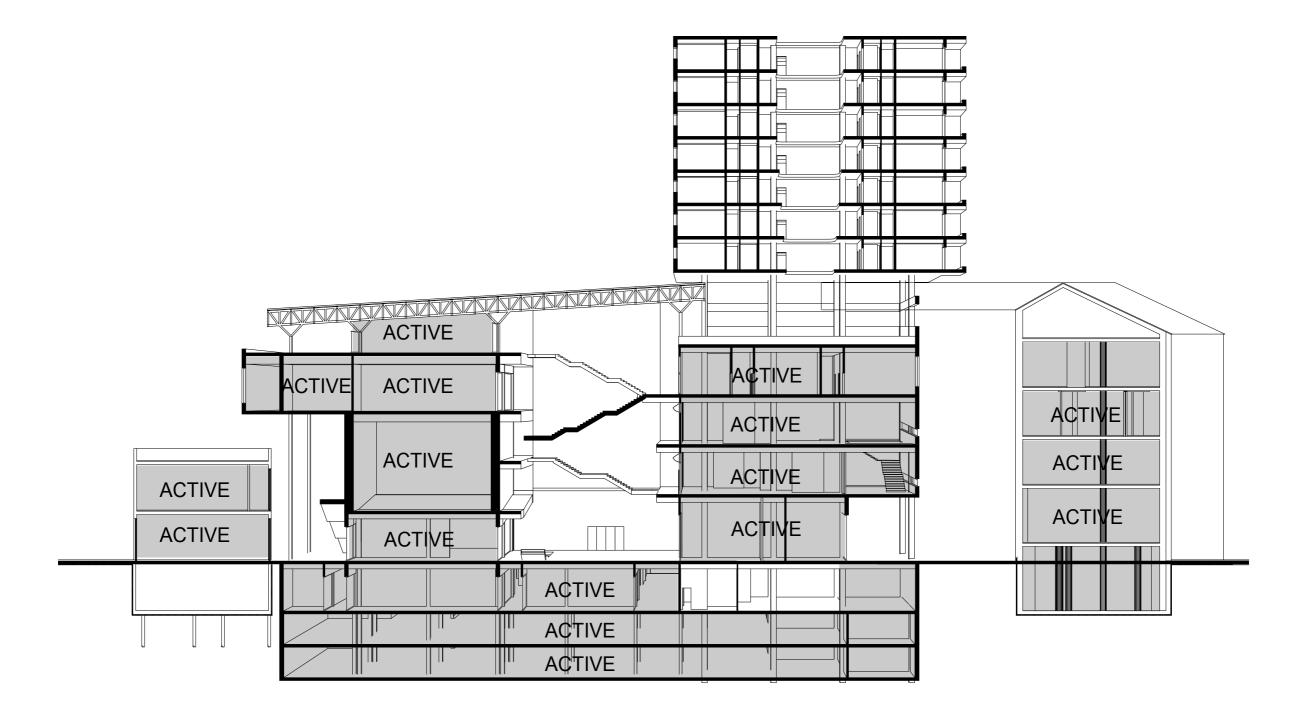


I. Lifting the residential mass to provide light for a private garden

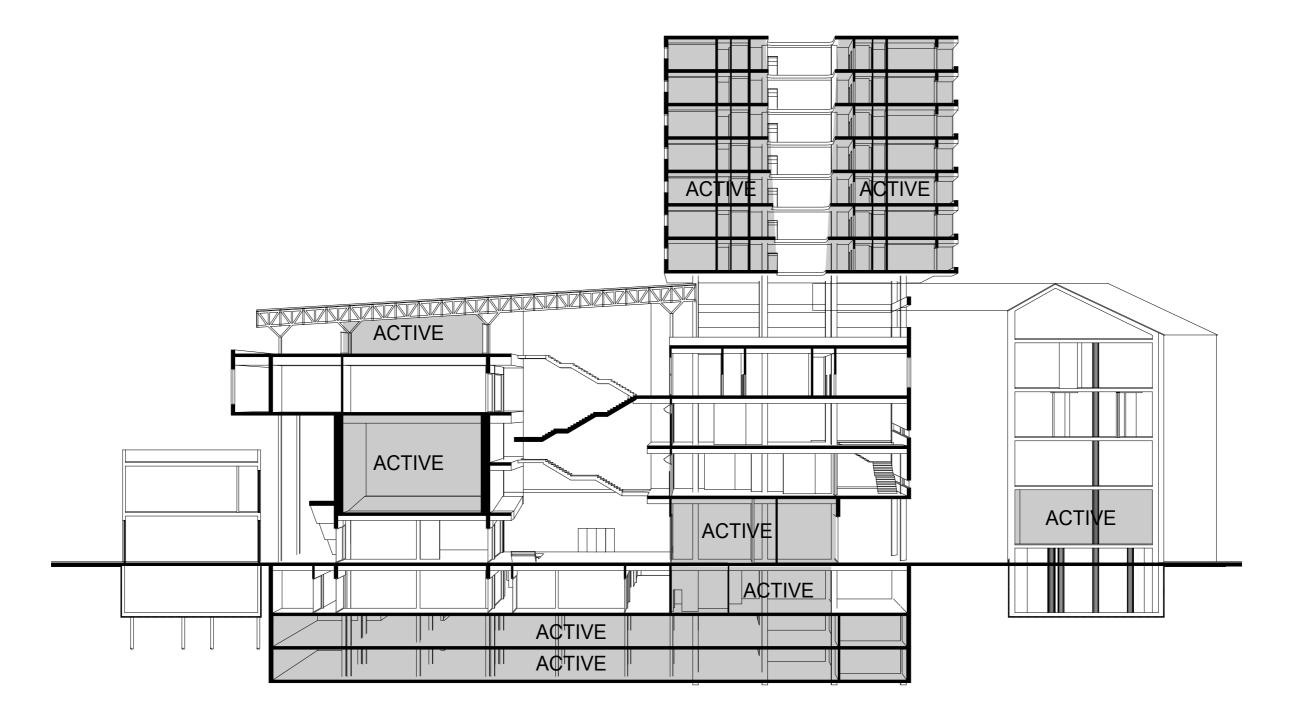
Functional Division



Intensity and Activity of Use - Day



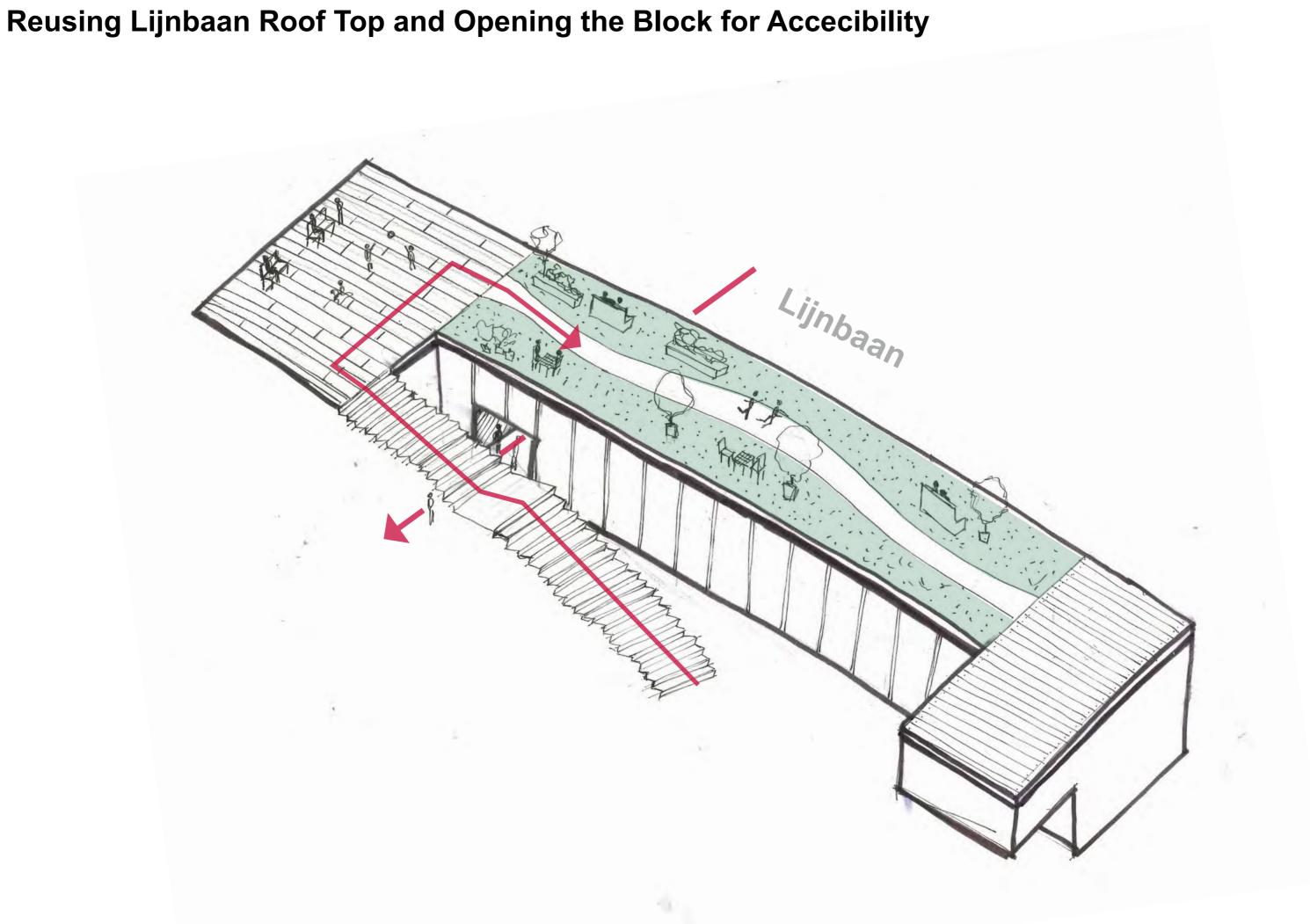
Intensity and Activity of Use - Night



Connecting to the infrastructure and the Existing Public spaces

Sustainable Approach





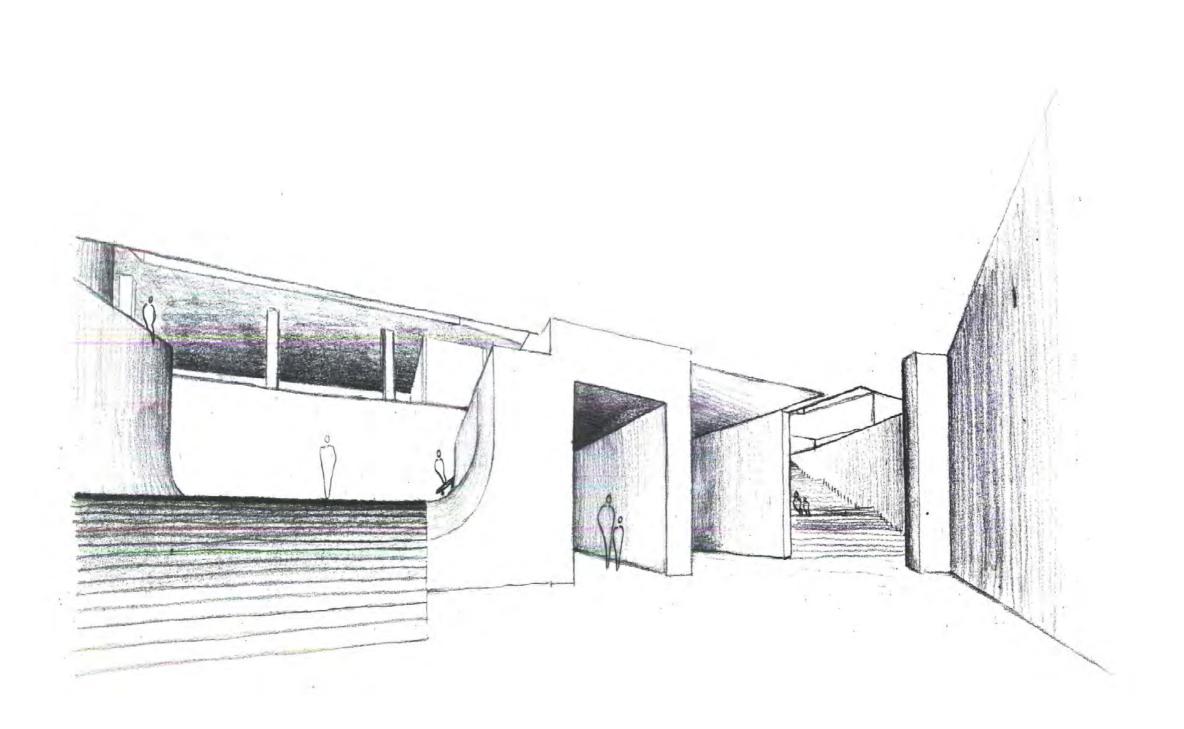
Design



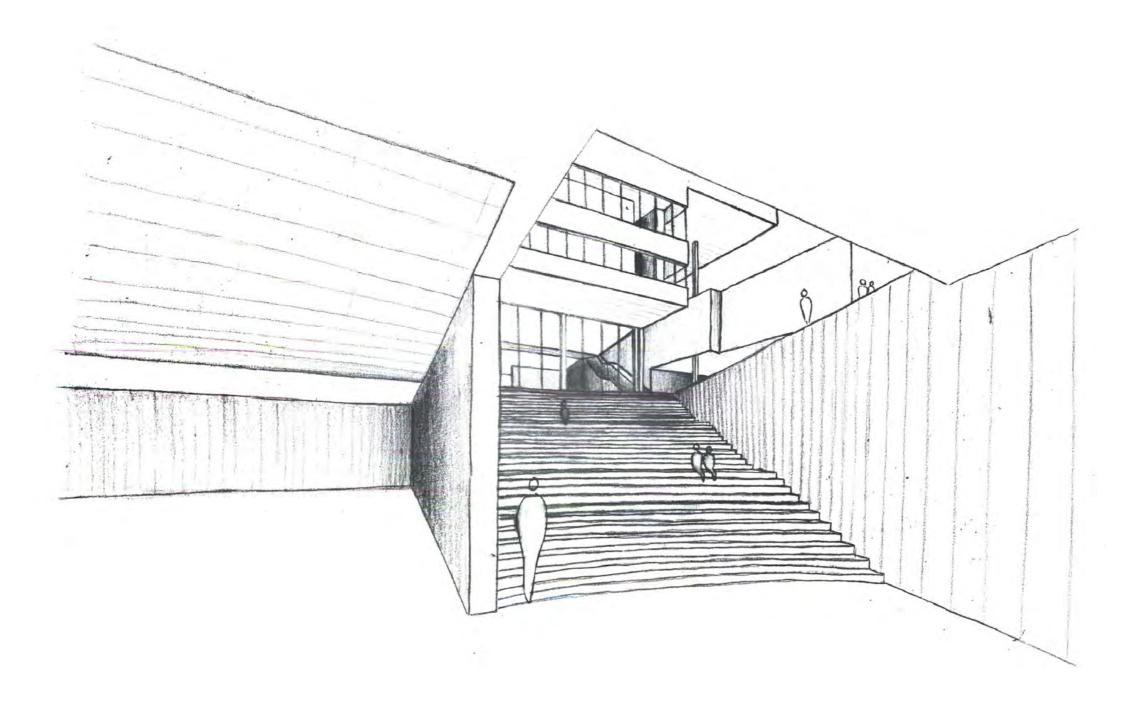




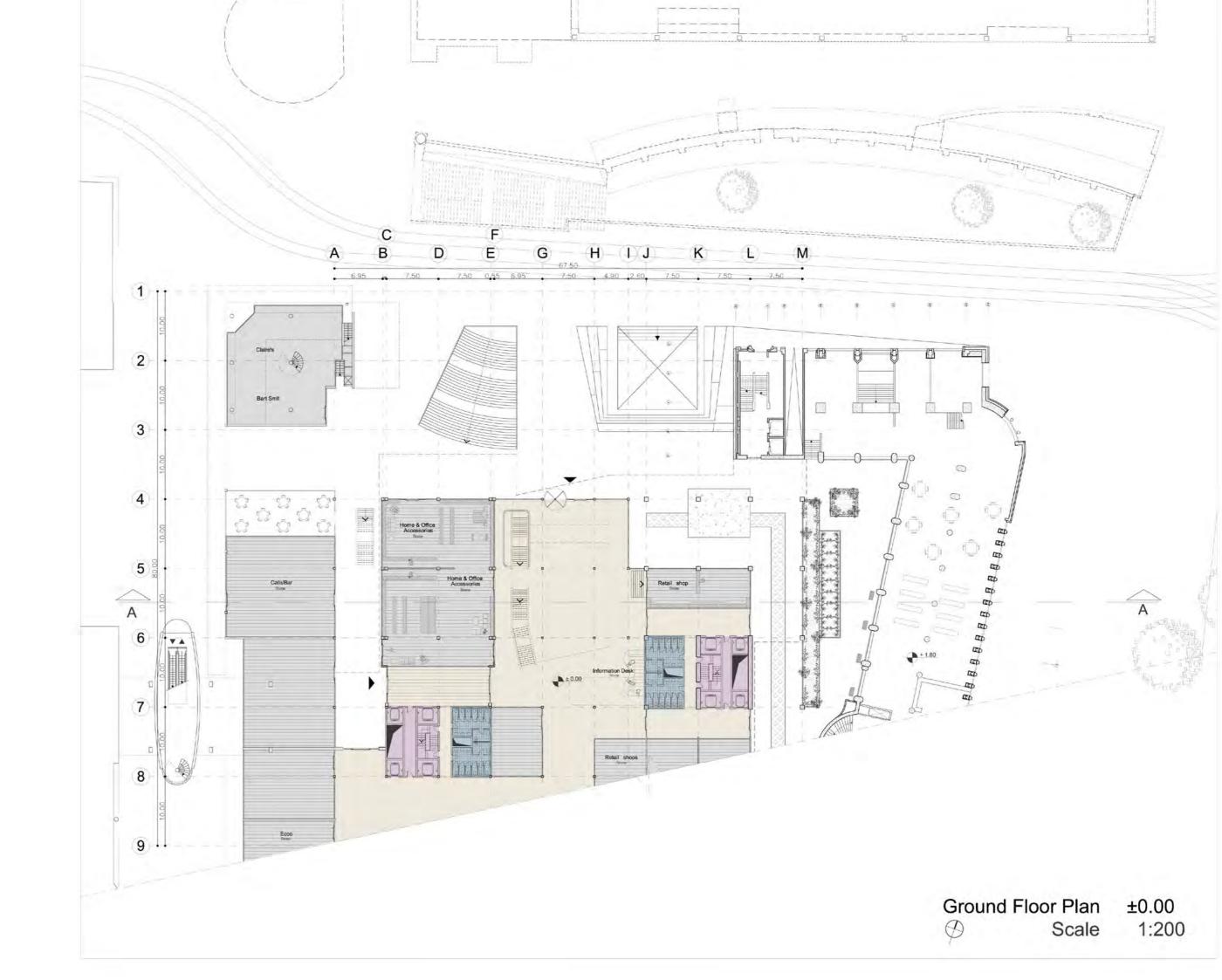
Final Design VIEW FROM KOOPGOOT



Final Design VIEW FROM THE BASEMENT

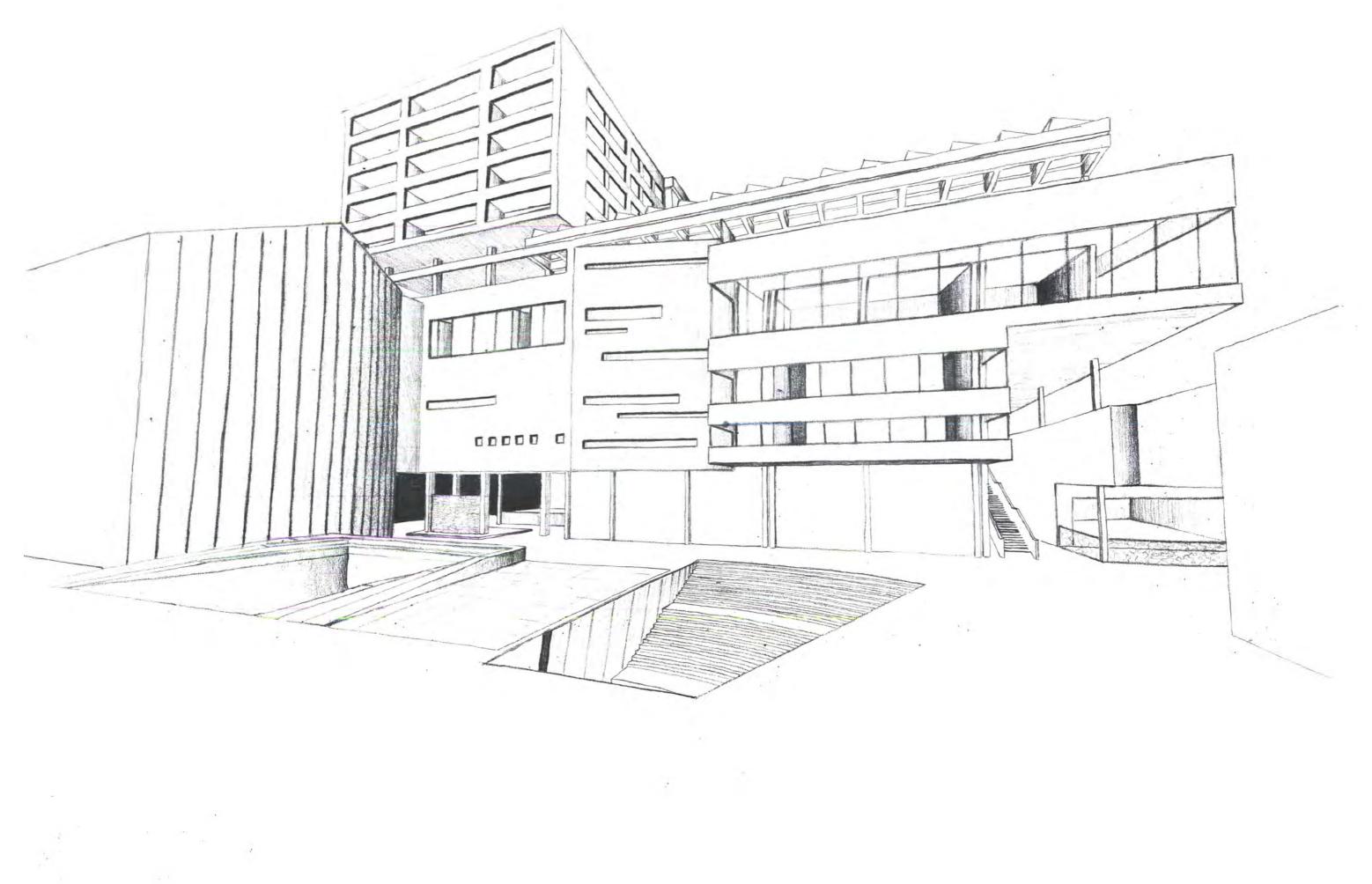


Plan

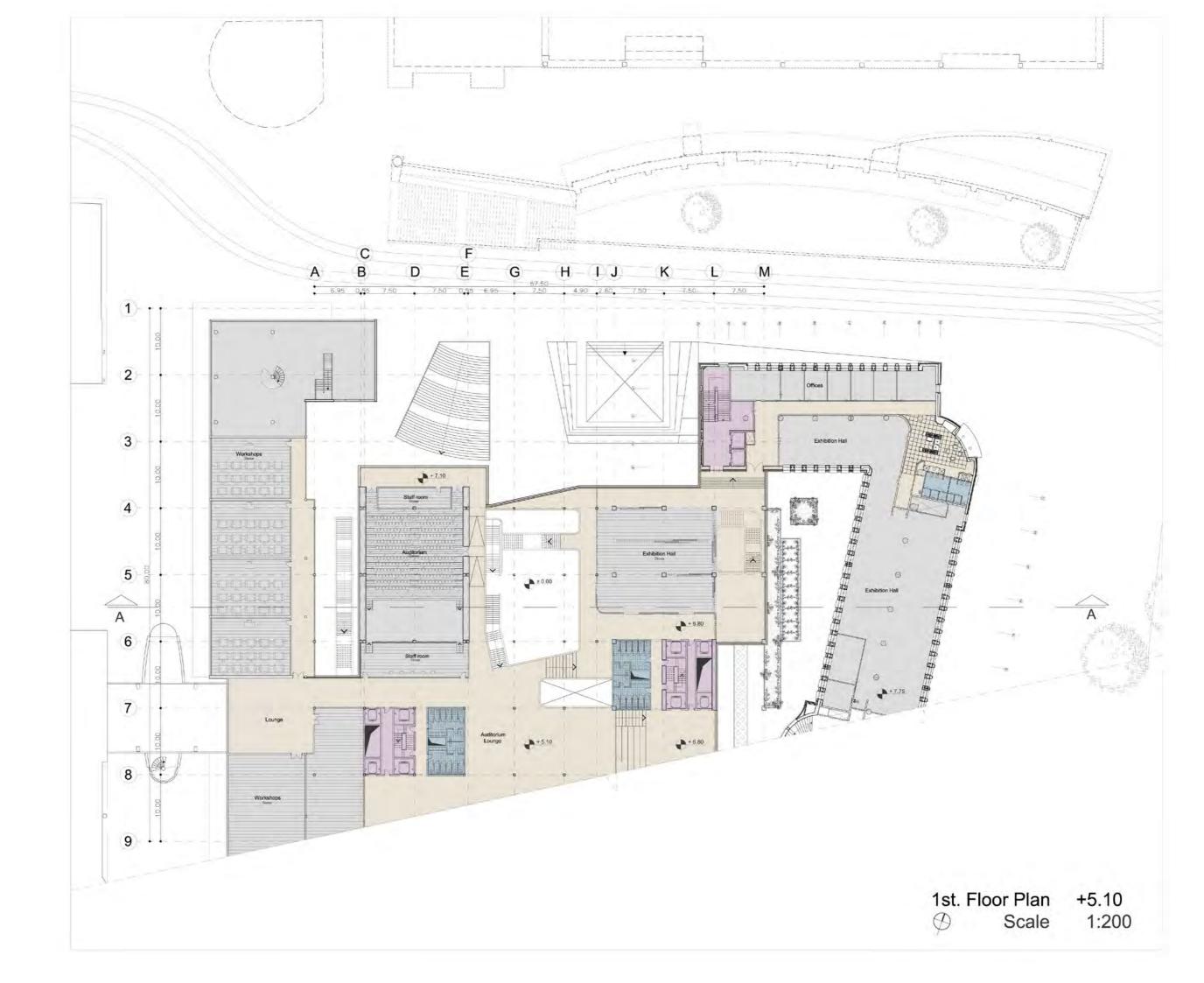


Final Design

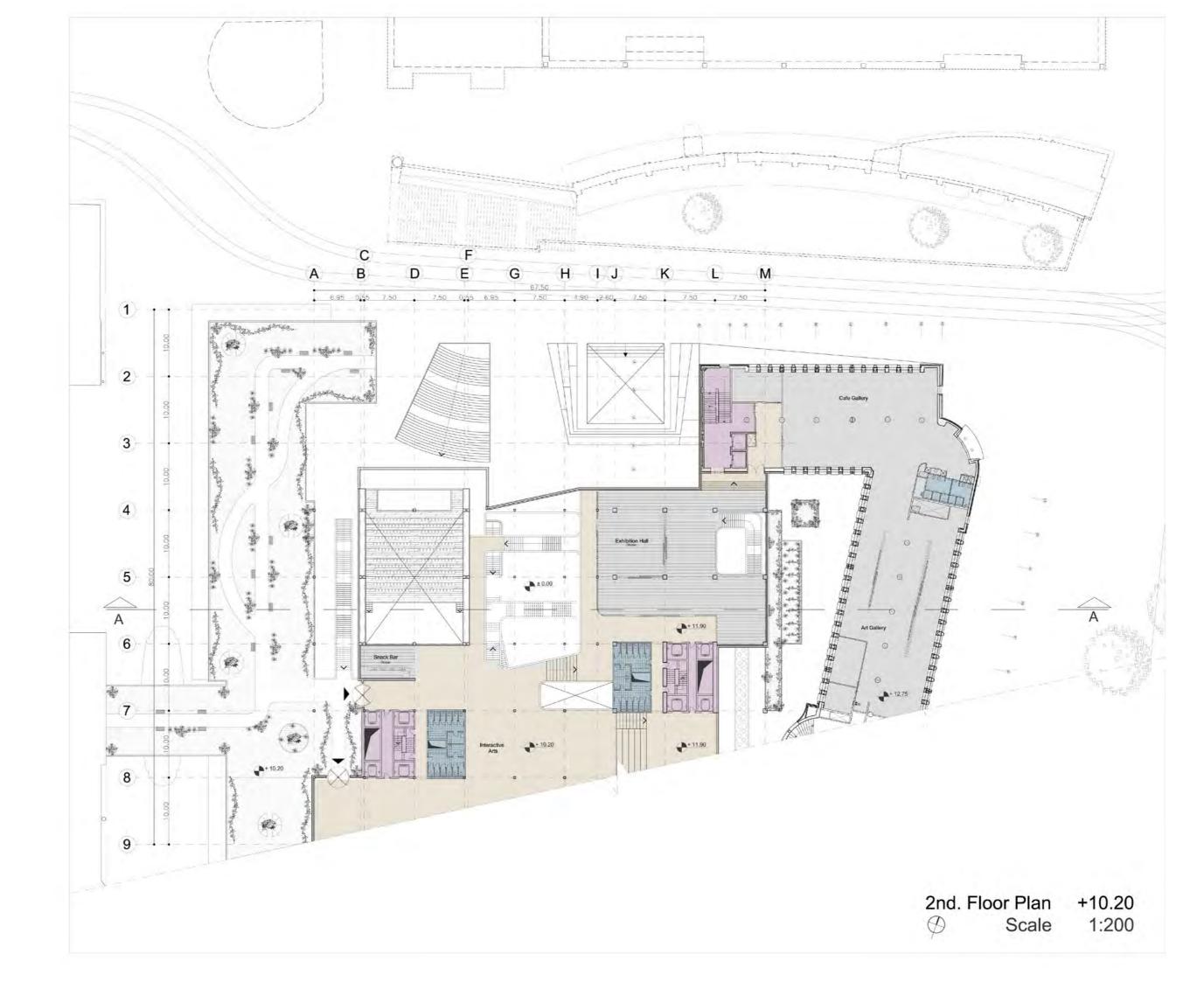
VIEW FROM MAIN STREET

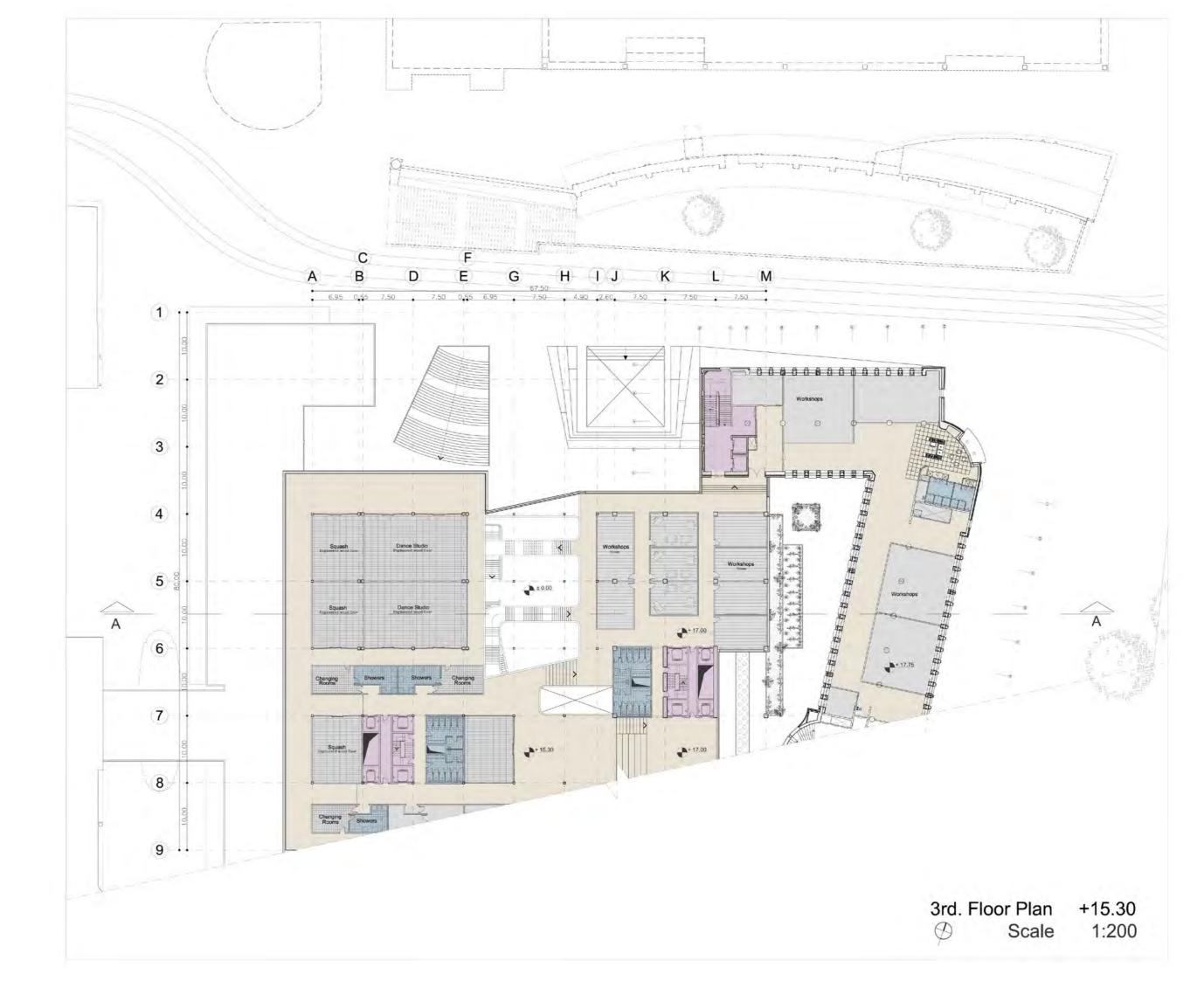


Plans

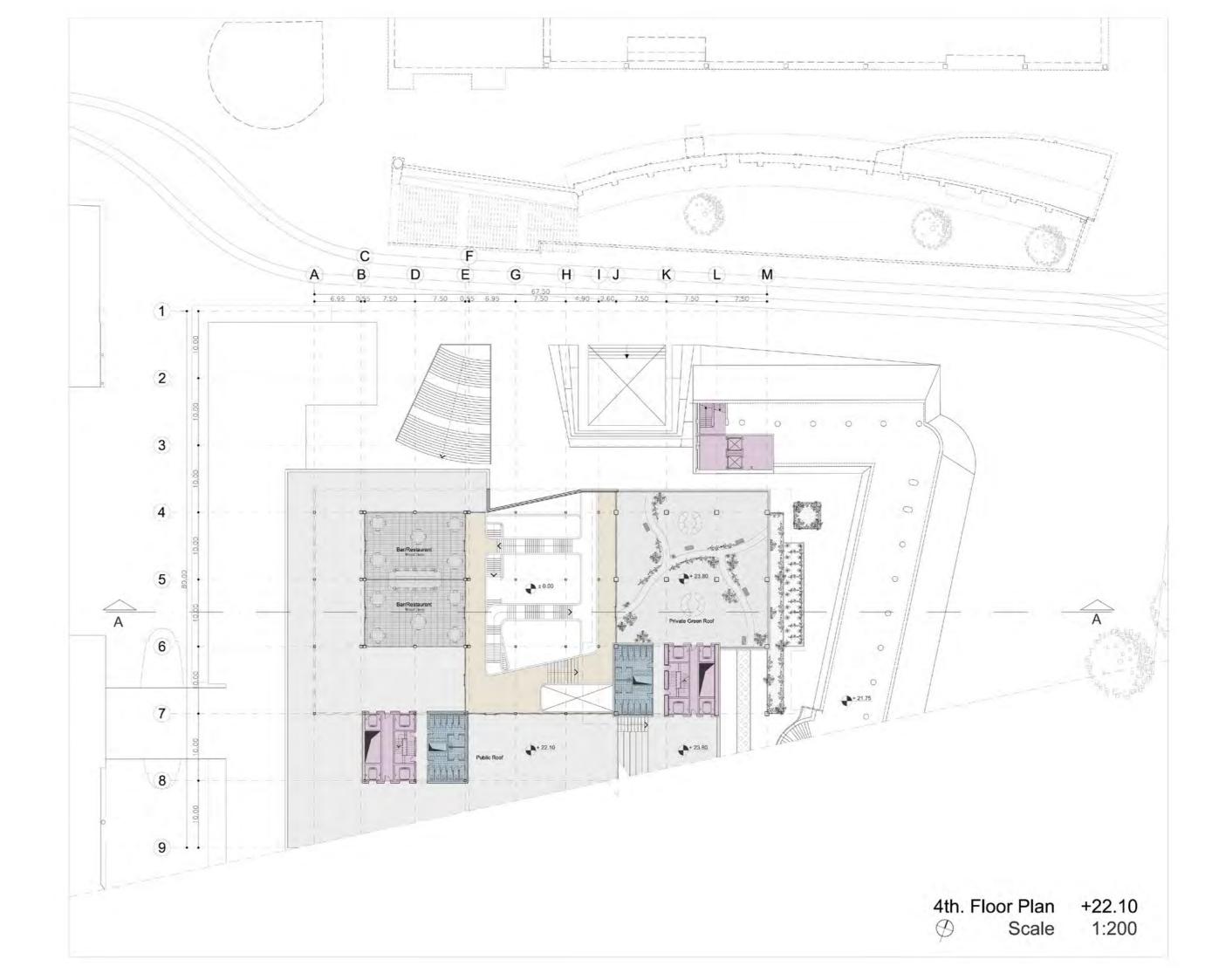


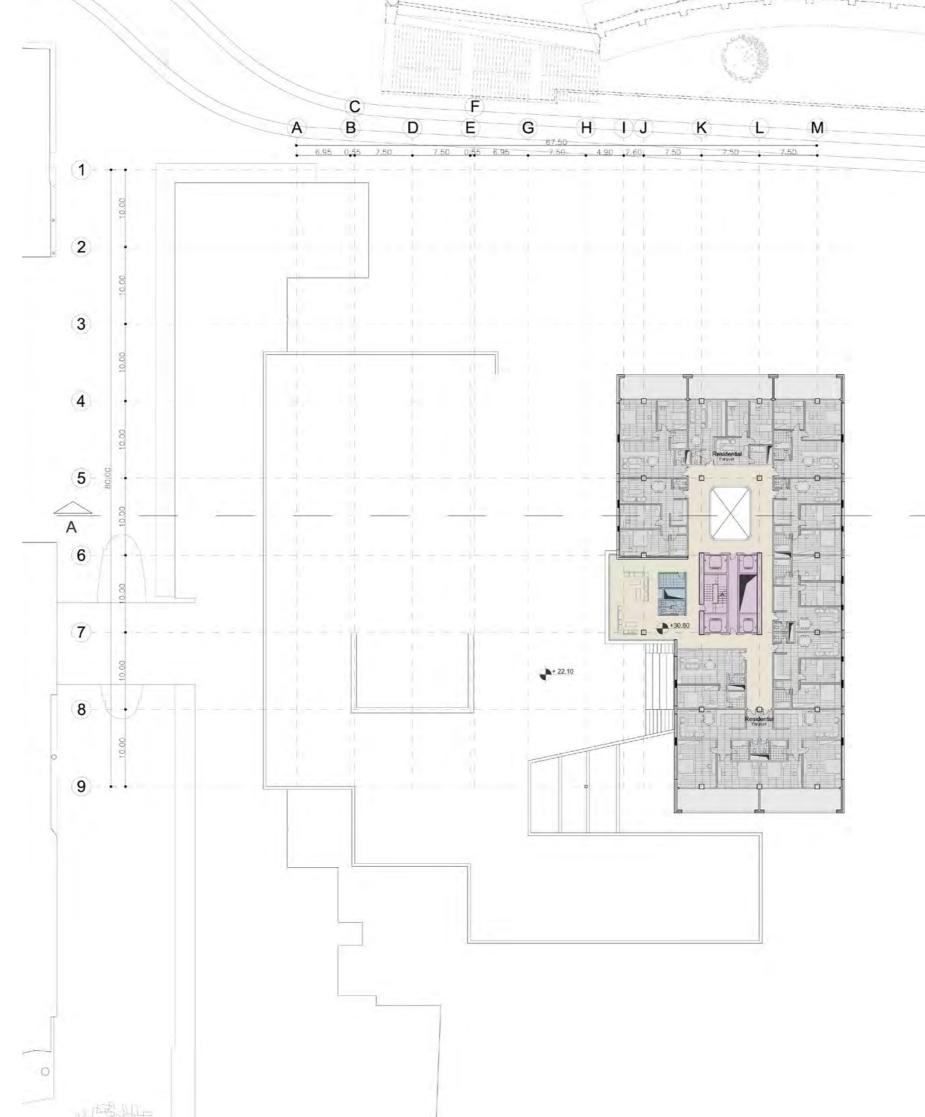
Plan



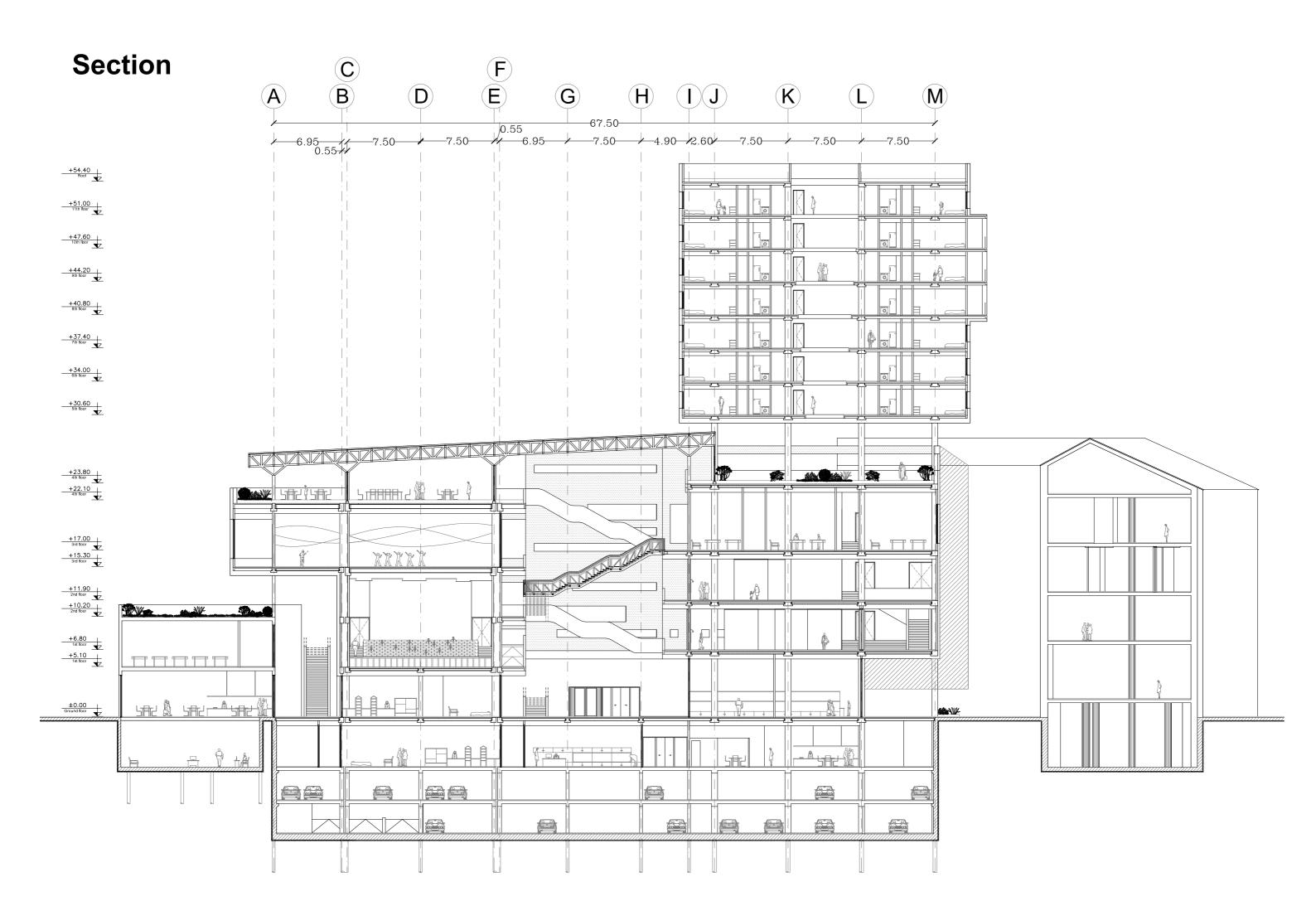


Plan

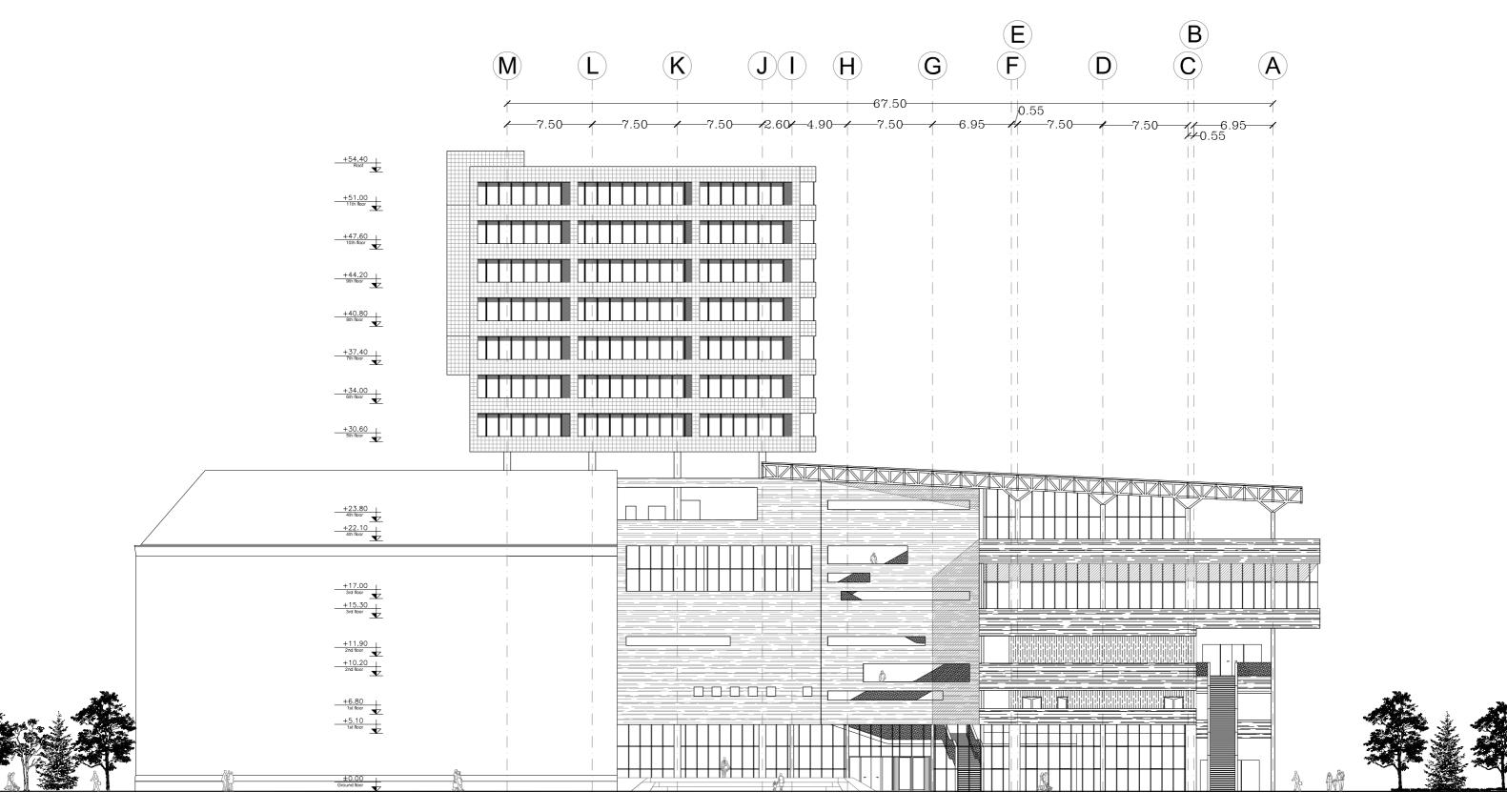




5th. Floor Plan +30.60 1:200 A



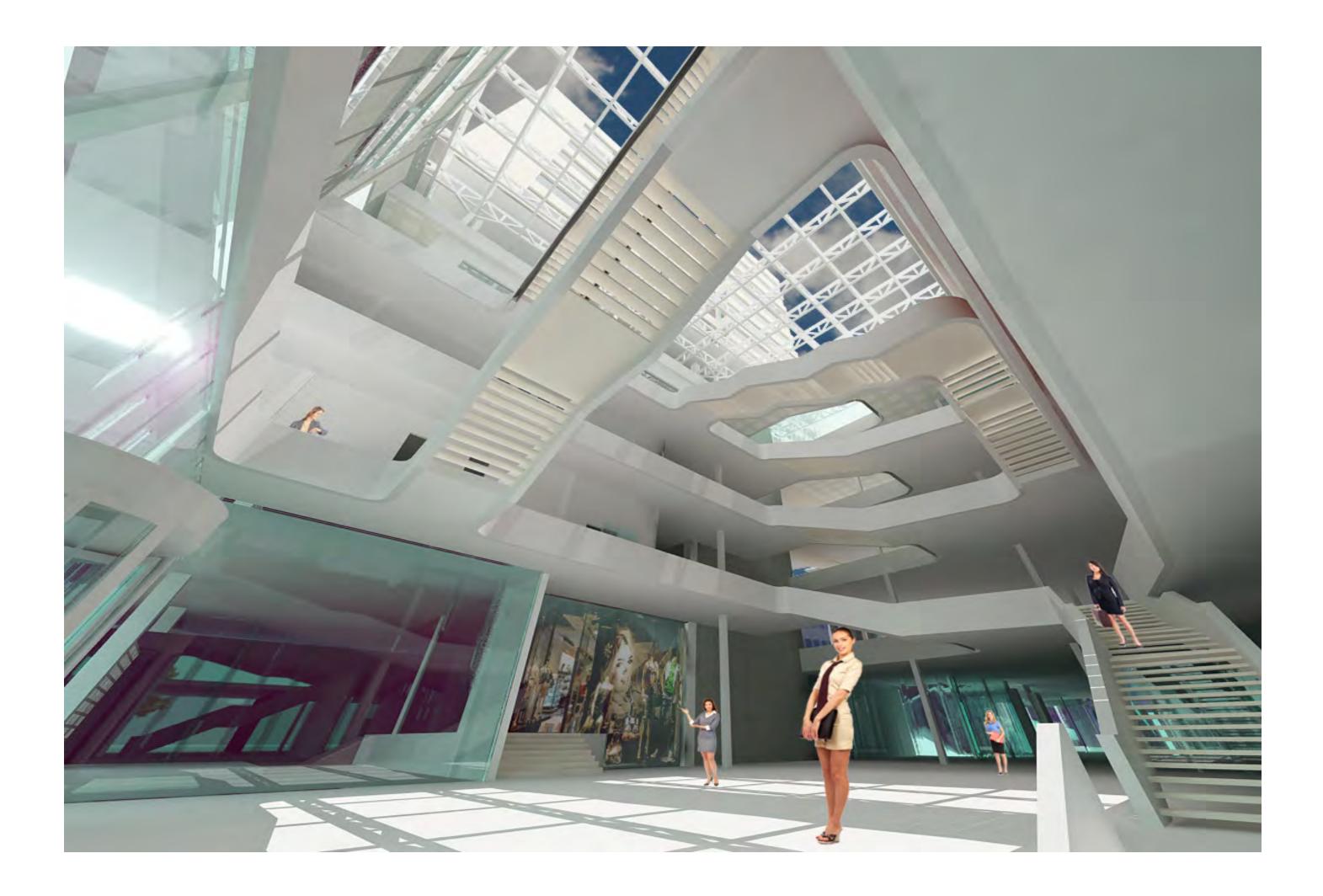
Elevation







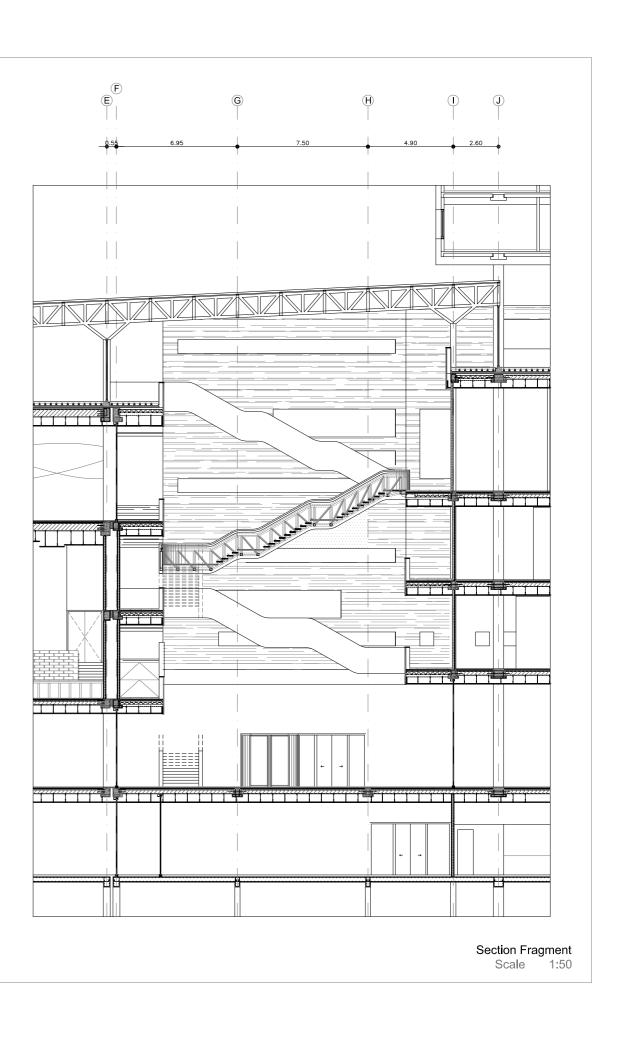




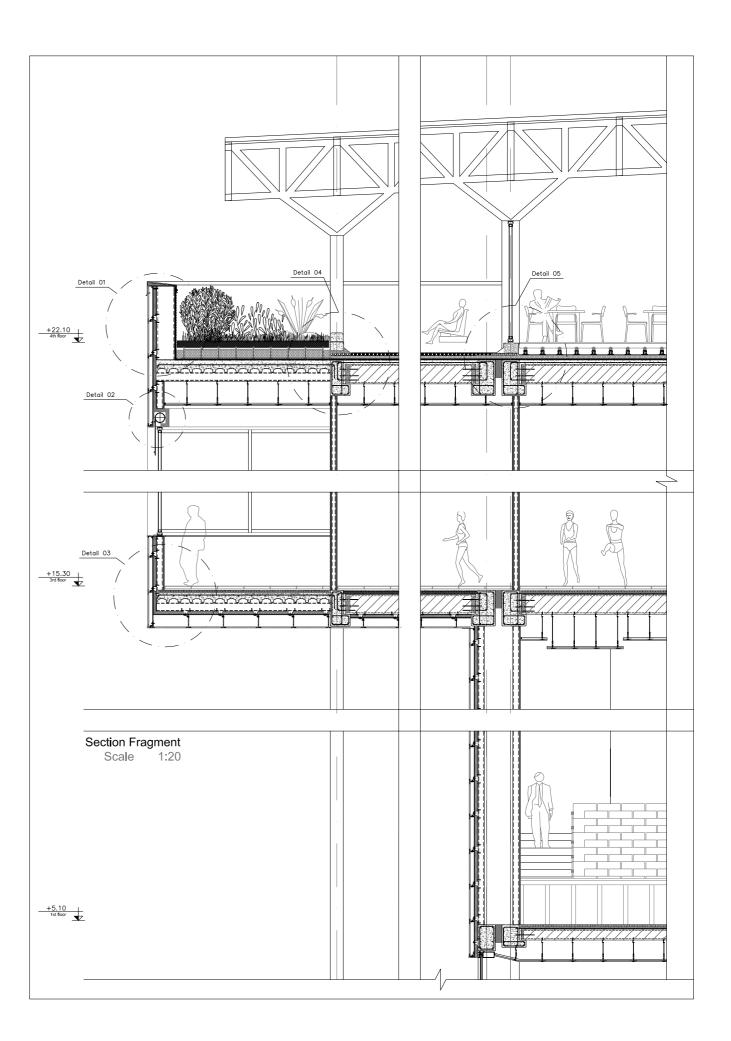


Technical Drawings

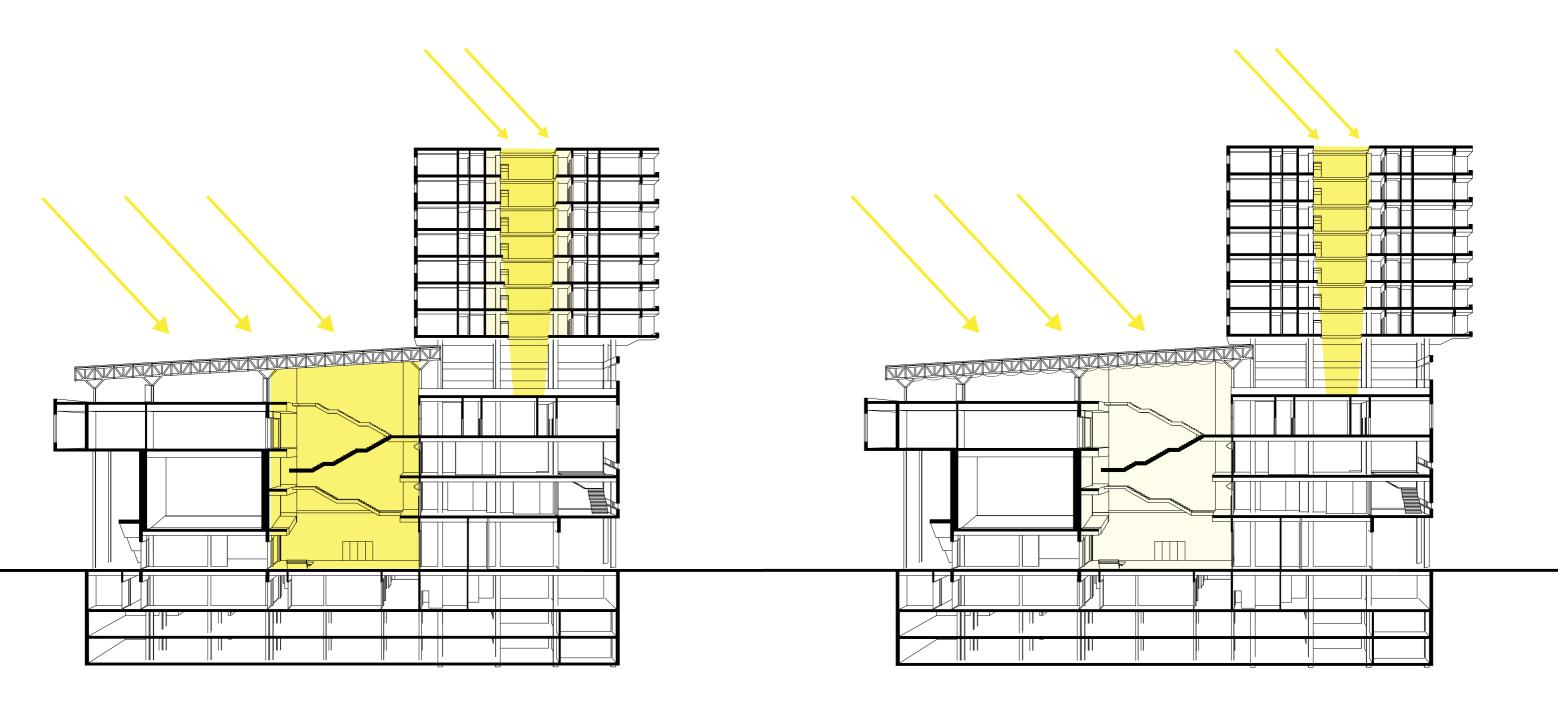
+47.60 +44.20 sh taor +40.80 80 Nor Facade Construction: - store lle 40x40 - sub-structure of steel gebenised veid - Insulaton - vertical steel support - drywell panel 25mm +37.40 +34.00 +30.60 11 +23.80 #h.tor +22.10 +17.00 R. Ph +15.30 +11.90 2nd floor +10.20



Facade Fragment Scale 1:50



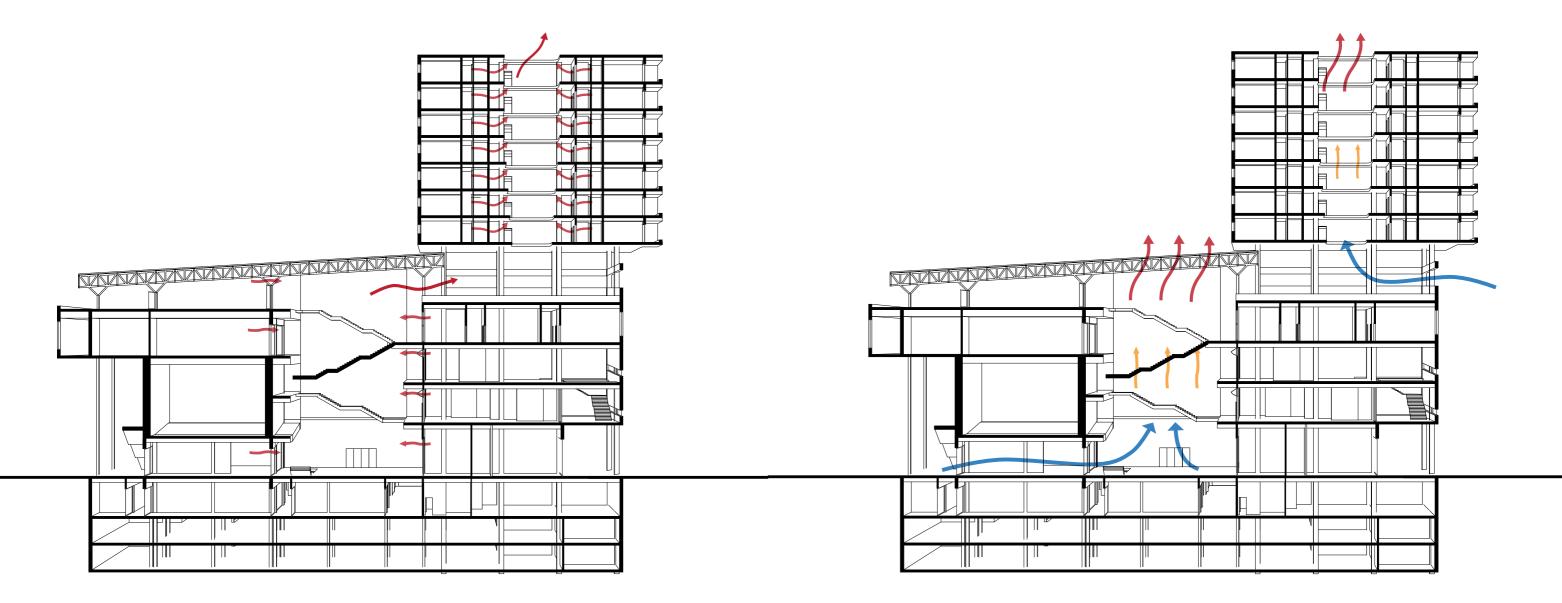
Natural Lighting in Atrium and Void



Winter

Summer

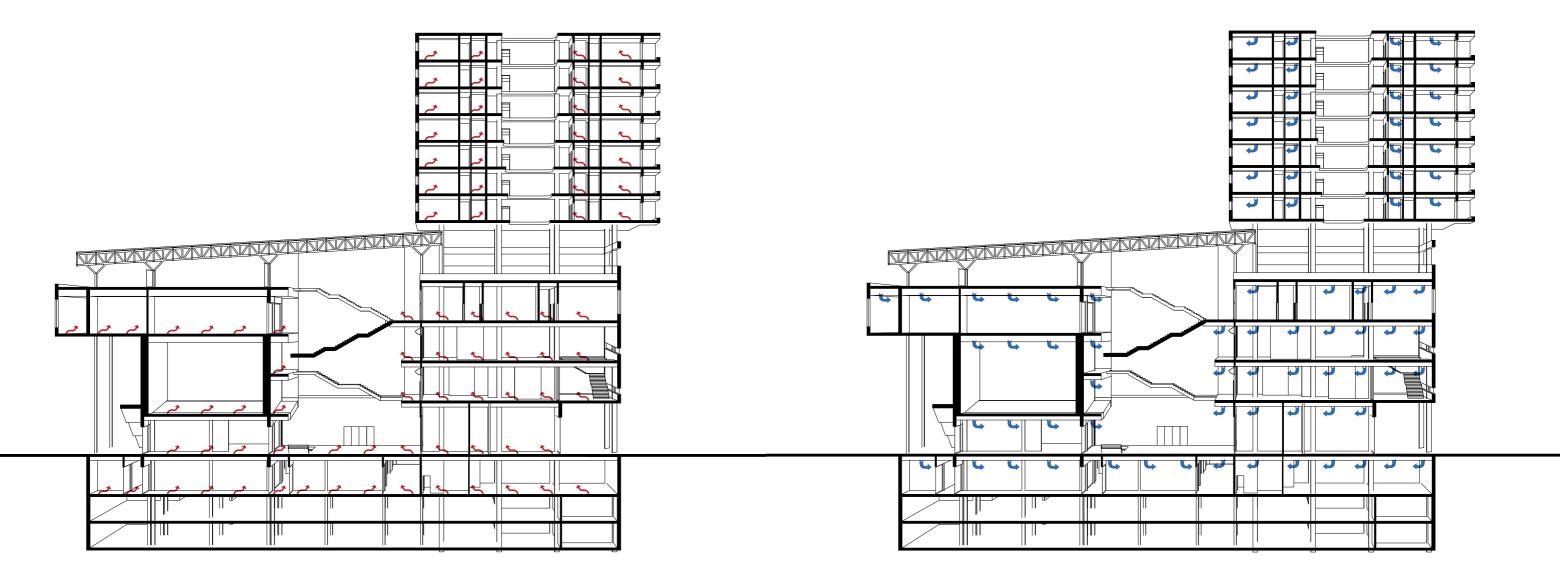
Natural Ventilation



'Overflow" of air from different spaces to the conservatory and void heat exchange in Summer, Autumn and Winter via sensored openings

'flushing' of air in the conservatory and void in Spring the air is discharged directly via the roof

Mechanical Heating



hot water pipes integrated in floors

cool air blowing from the secondary ceiling

Parya Khodaeiani