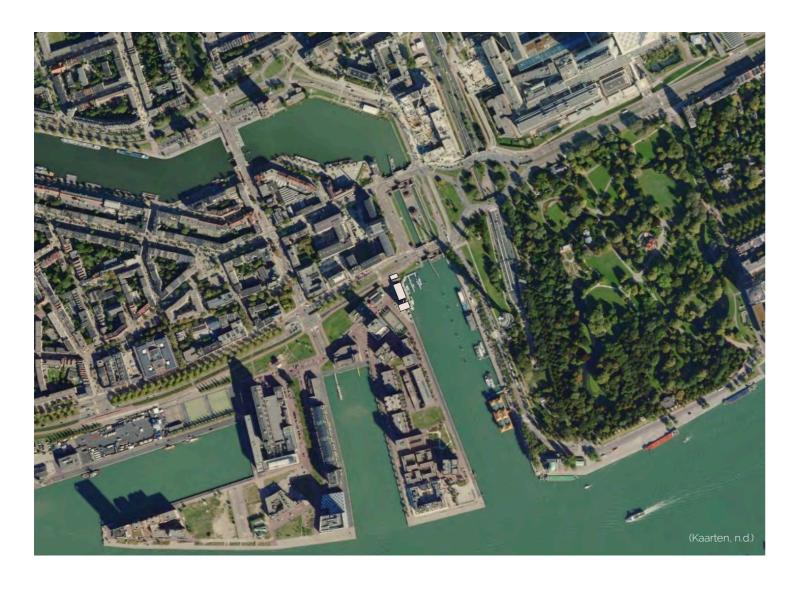


ASSIGNMENT

ROTTERDAM HARBOUR POLICE STATION

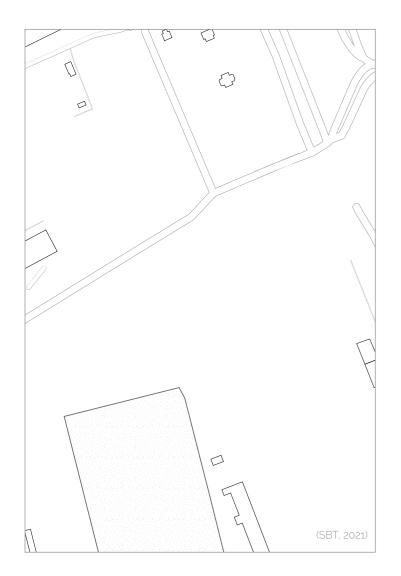
- 3 separate brick buildings
- Layering of time
- Different sizes and shapes

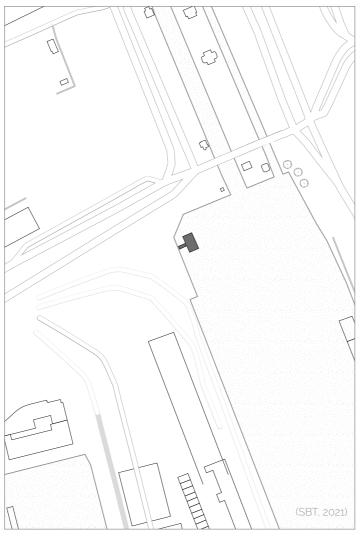


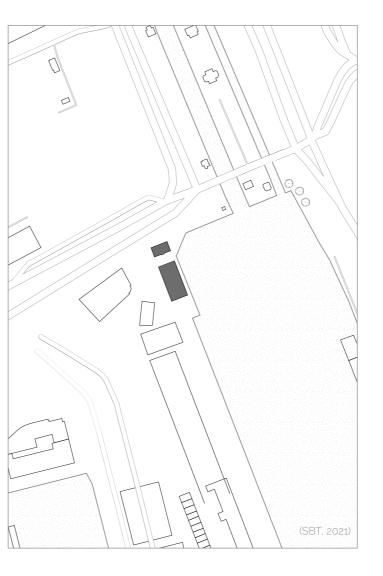


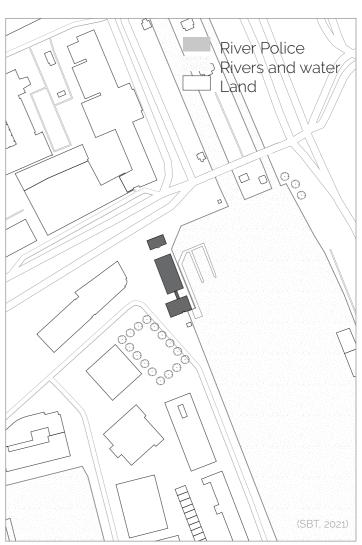
URBAN DEVELOPMENT

- No harbour in 1850
- First activities 1900
- Parkhaven during WWII
- Current situation

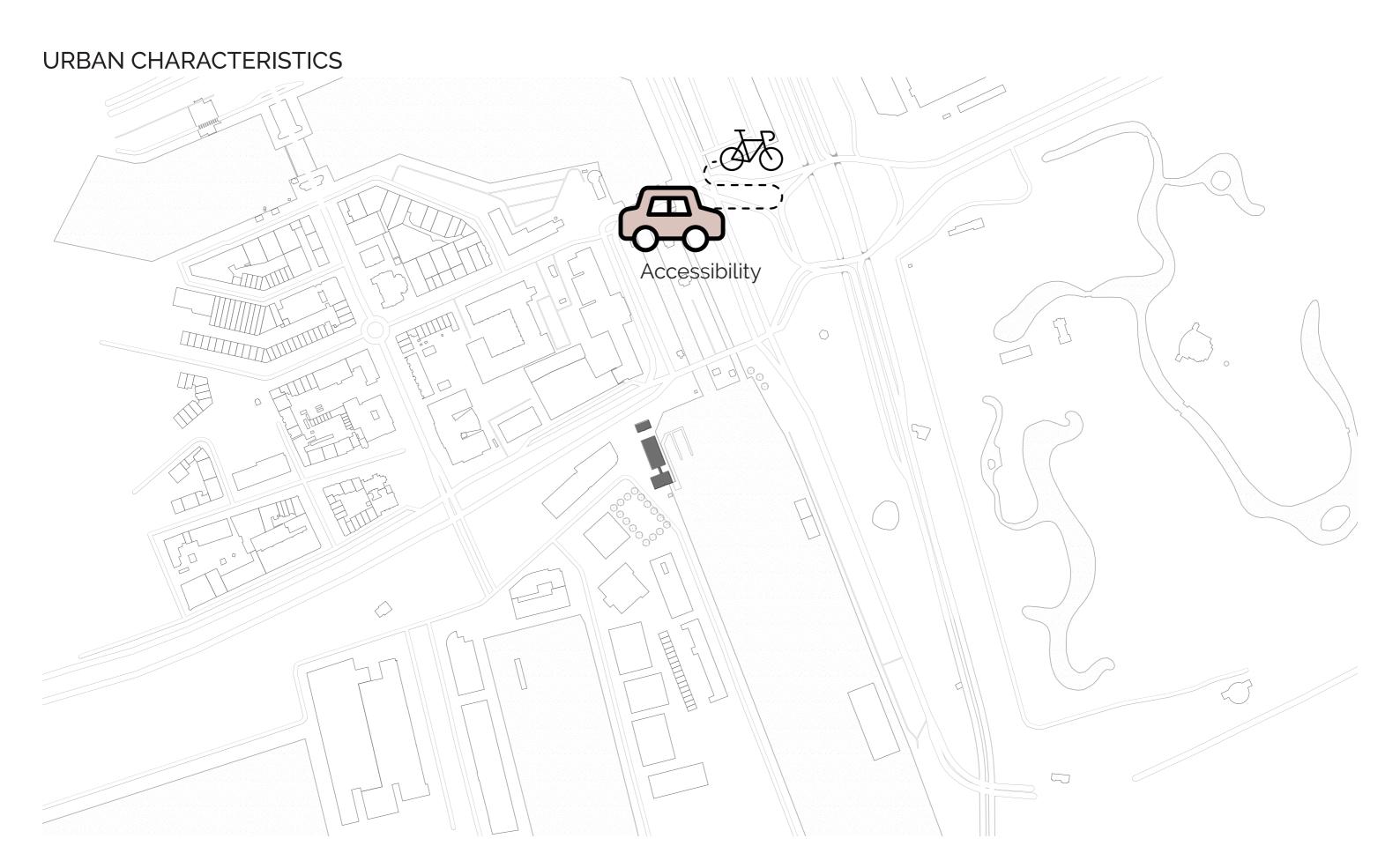


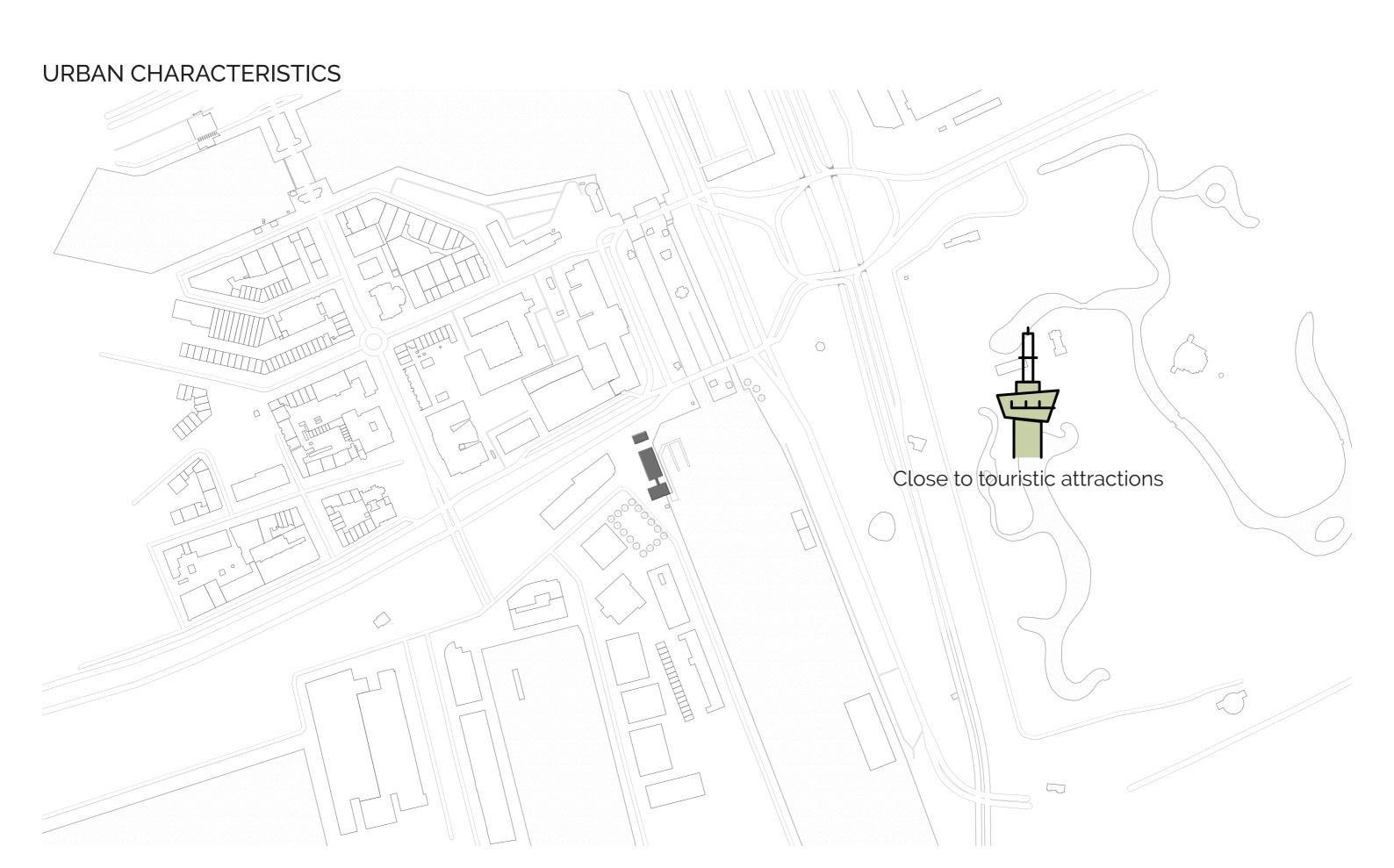


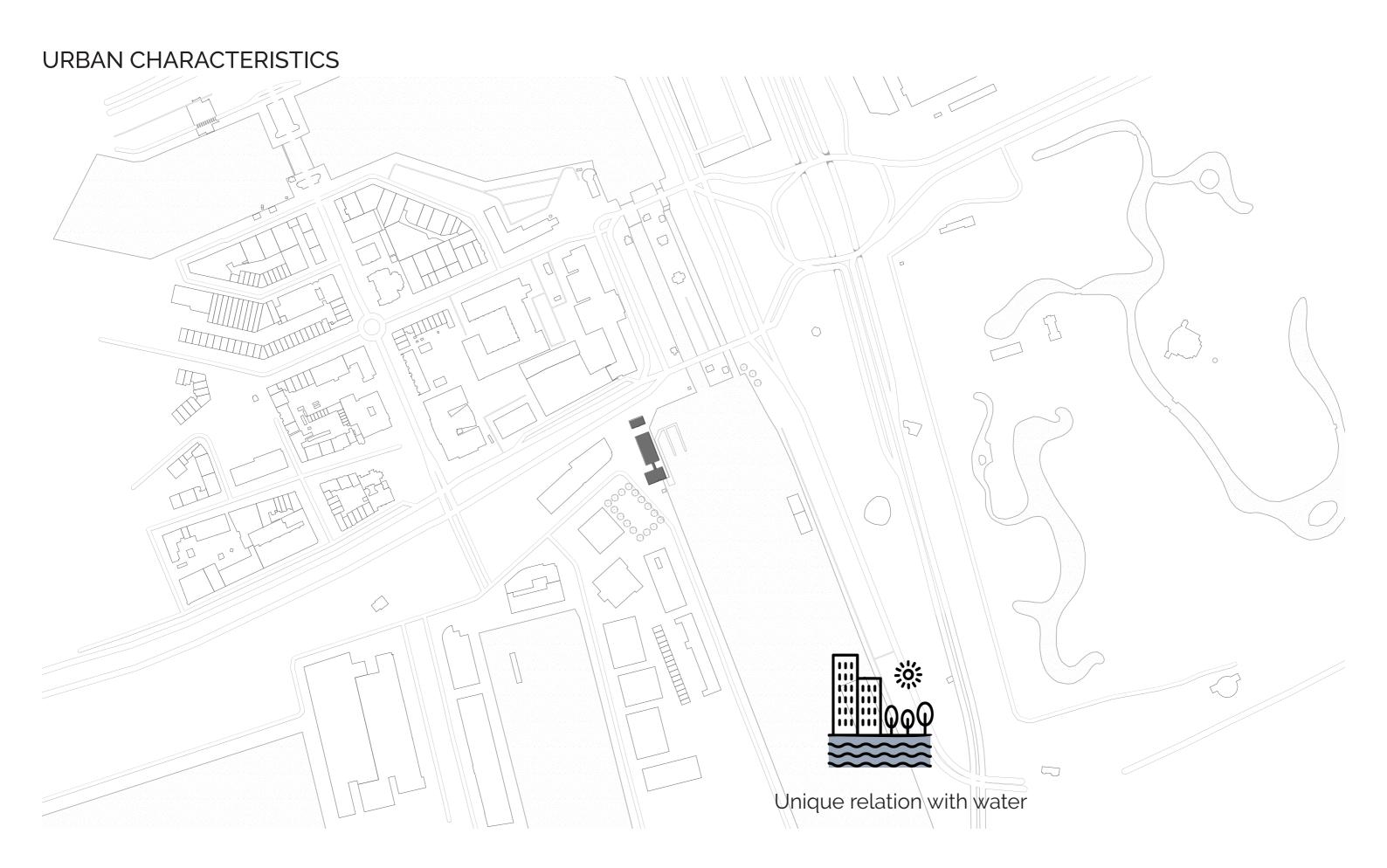


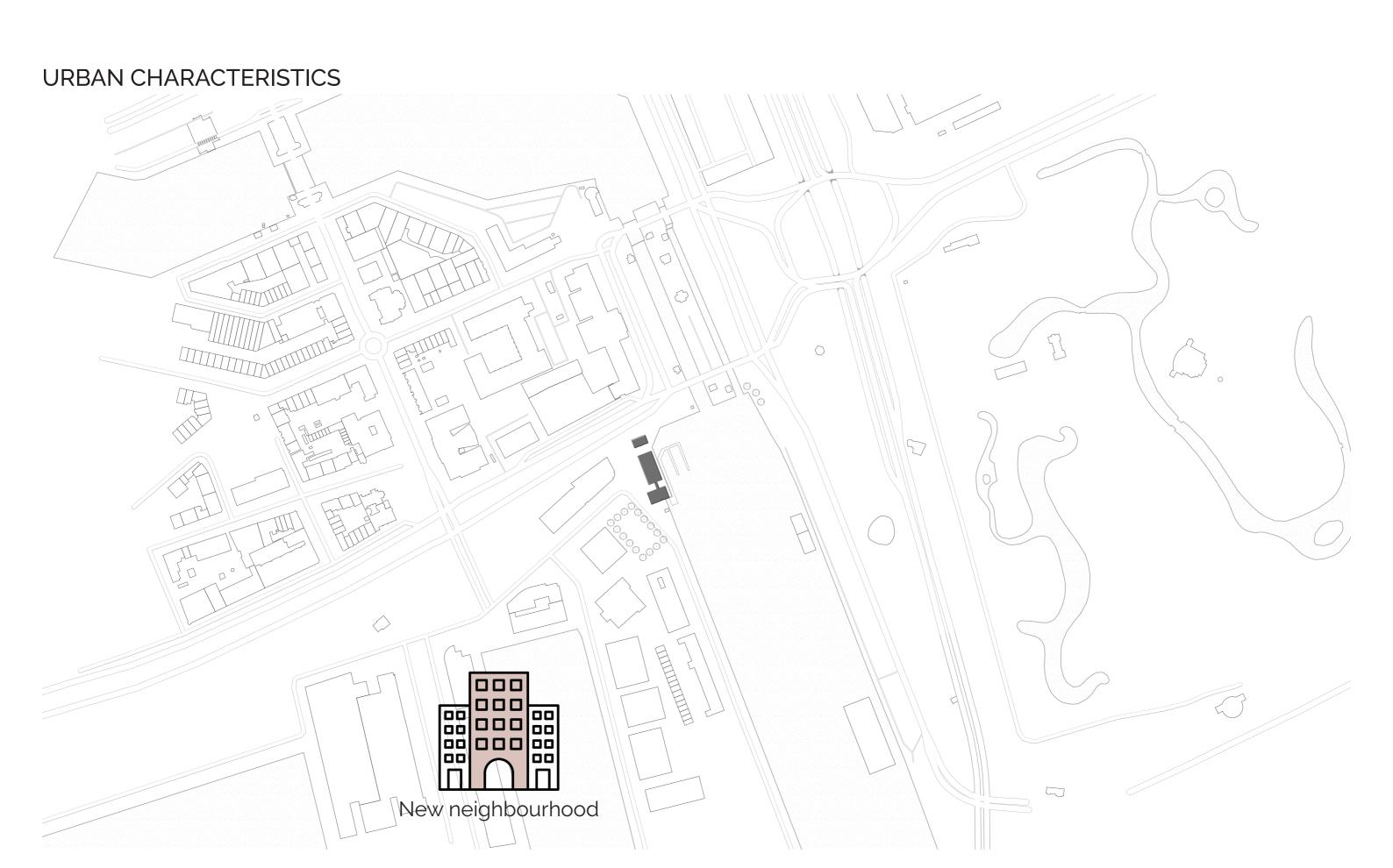


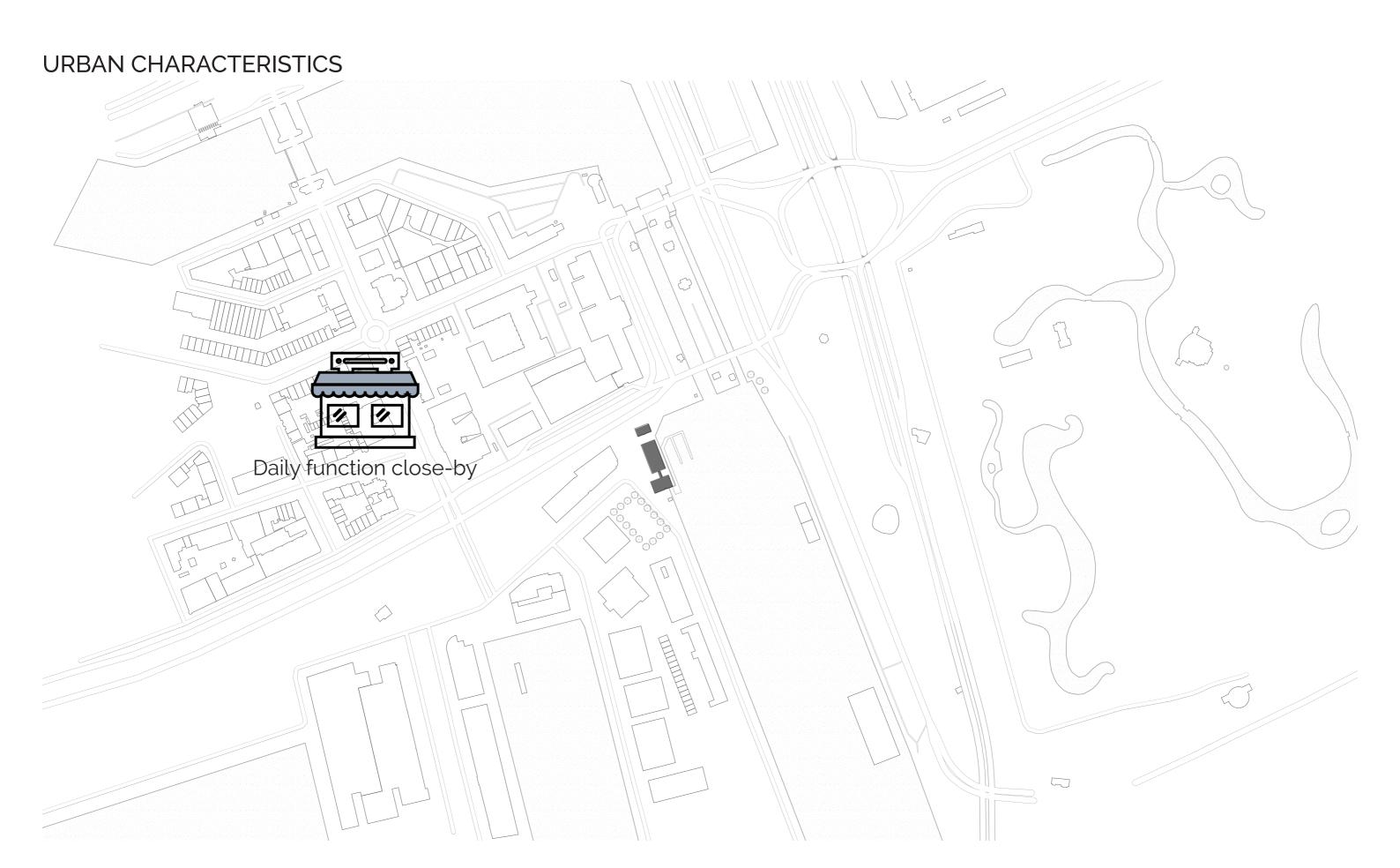






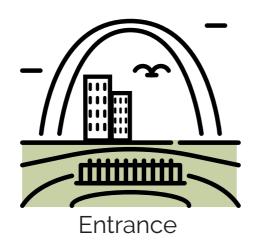


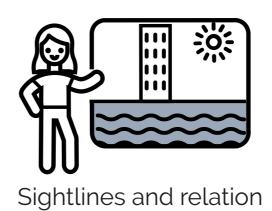




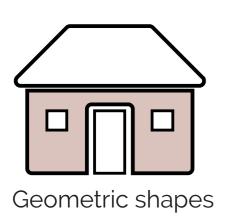
VALUES OF THE BUILDING



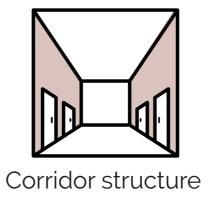






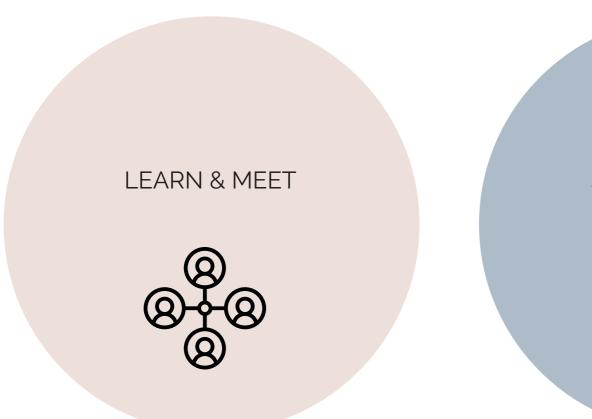








KEY INFORMANT SET



- · New residential area
- Diversity and cultural variety
- Loneliness and digitalisation
 - Symbolic gateway



- Daily functions closeby
- Upcoming neigbourhood
- Densification, housing shortage
 - Beautiful views

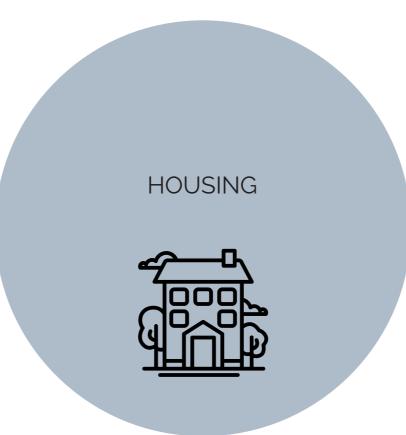


- Entrance area
- Located near city icons
- Rotterdam as service economy
 - Good accessibility

NEW PROGRAM



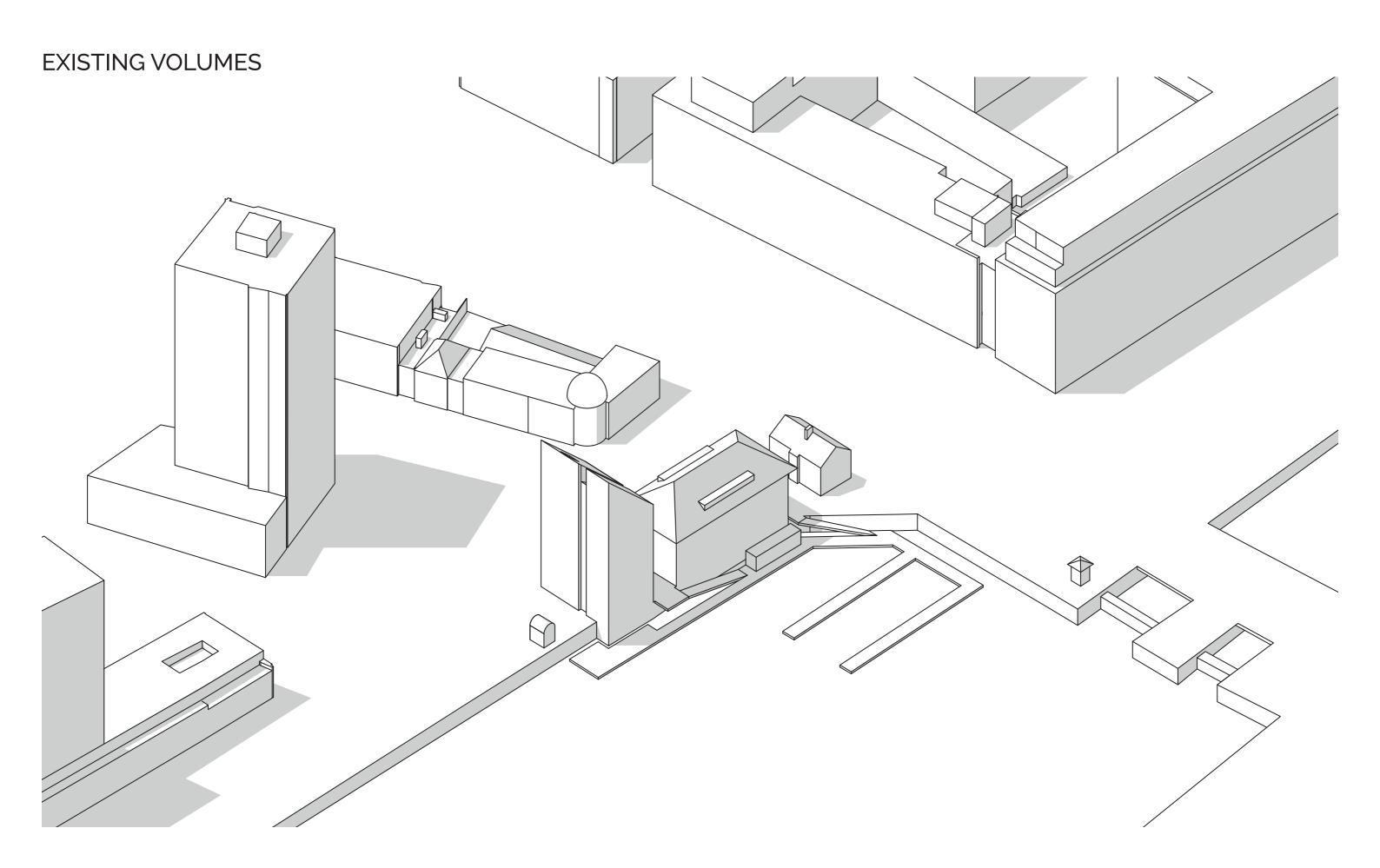
- Public access
- Flexible layout
- Diverse and dynamic

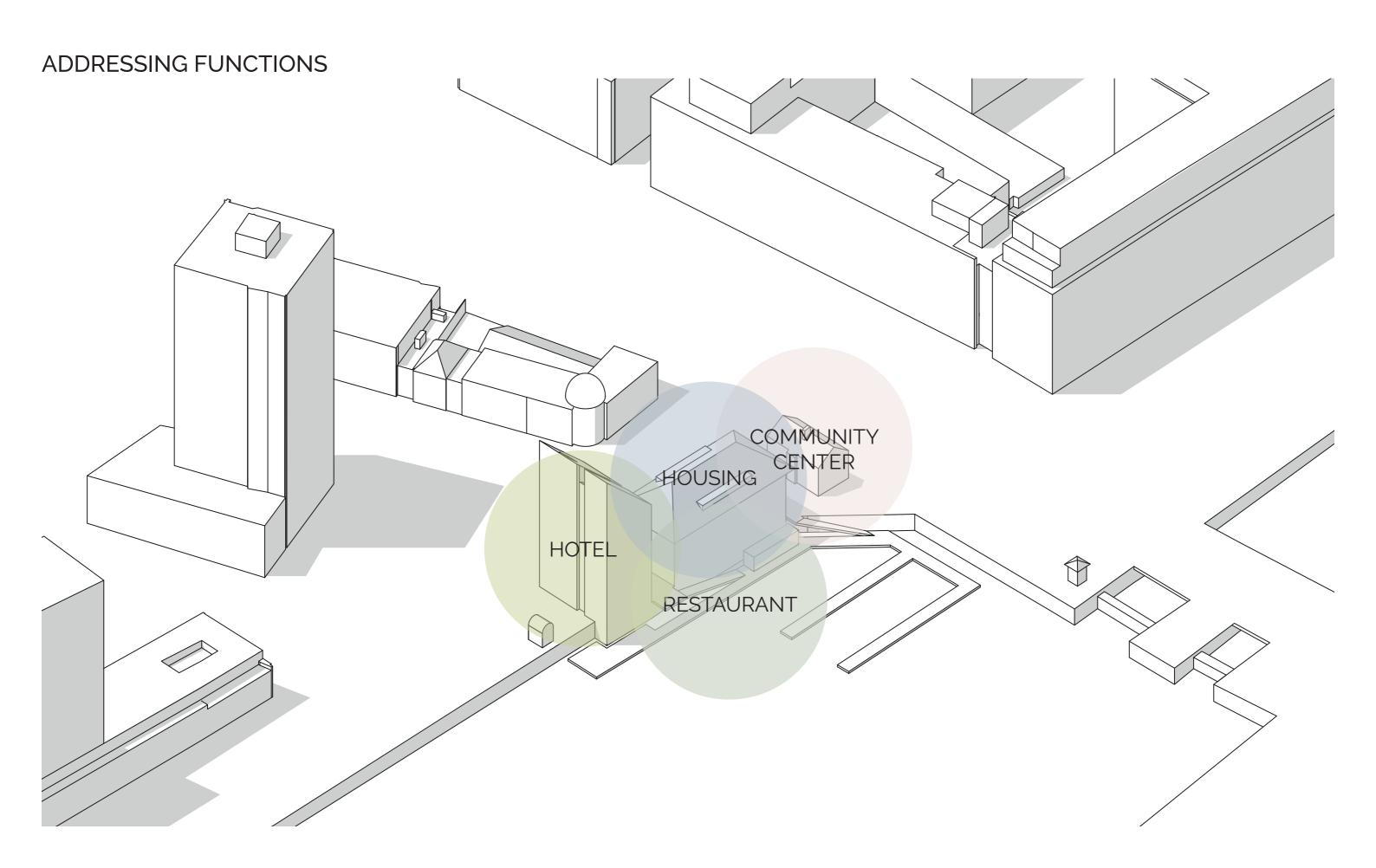


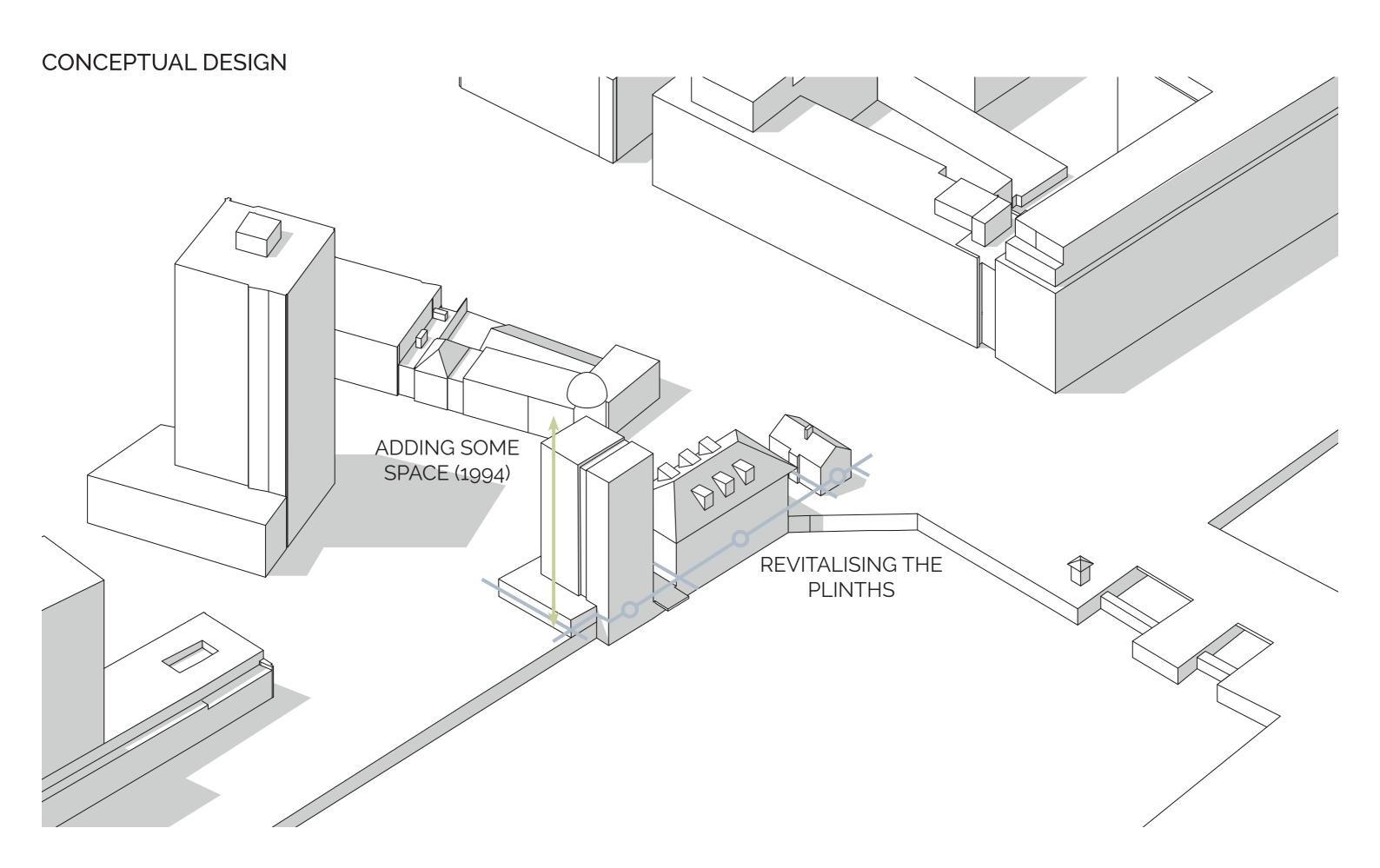
- Appealing and accessible
- Connected surroundings
- Emphasis on slow traffic



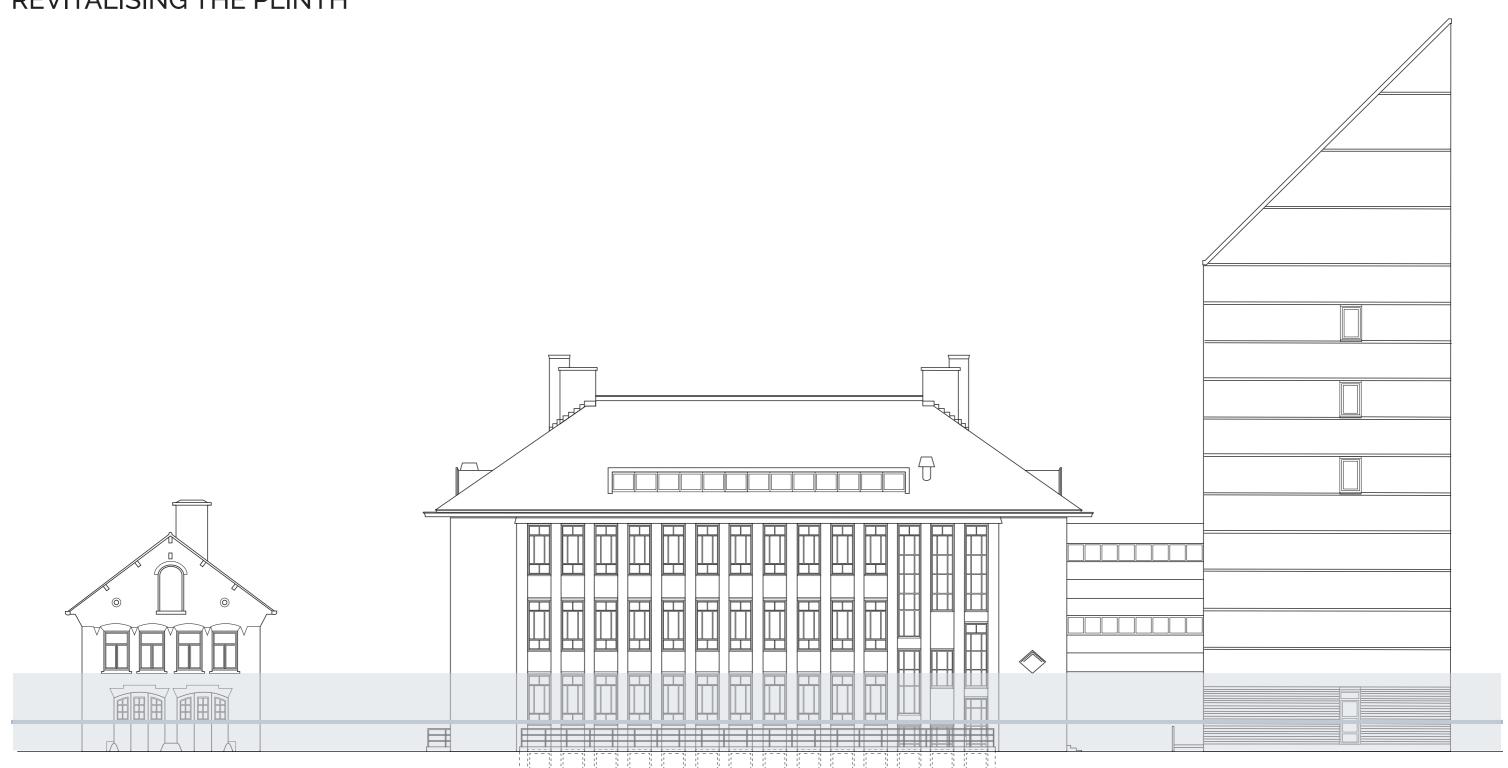
- Welcoming plinth
- Open and transparent
- Accentuating sightlines







REVITALISING THE PLINTH



RESEARCH

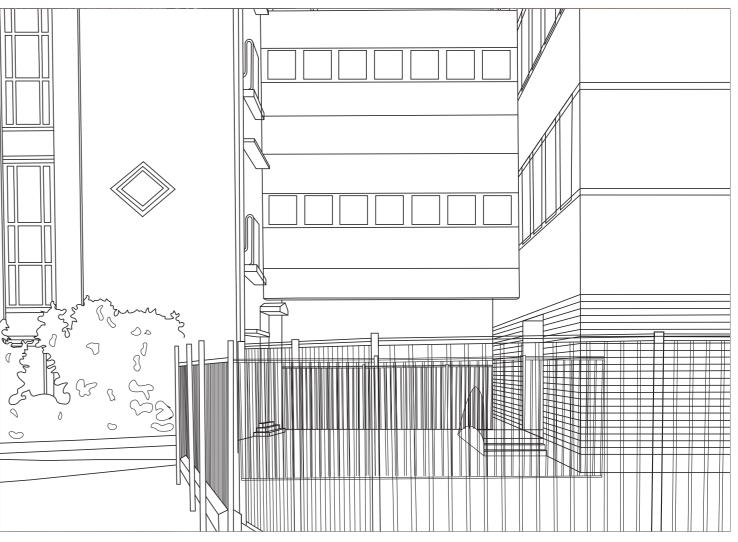
MAIN RESEARCH AND DESIGN GOAL

"Defining and redesigning **the in-between spaces** of the Rotterdam Harbour Police Station"

DEFINING THE IN-BETWEEN SPACES

- Three buildings
- Shared transition zones
- Public vs. private





DEFINING THE IN-BETWEEN SPACES

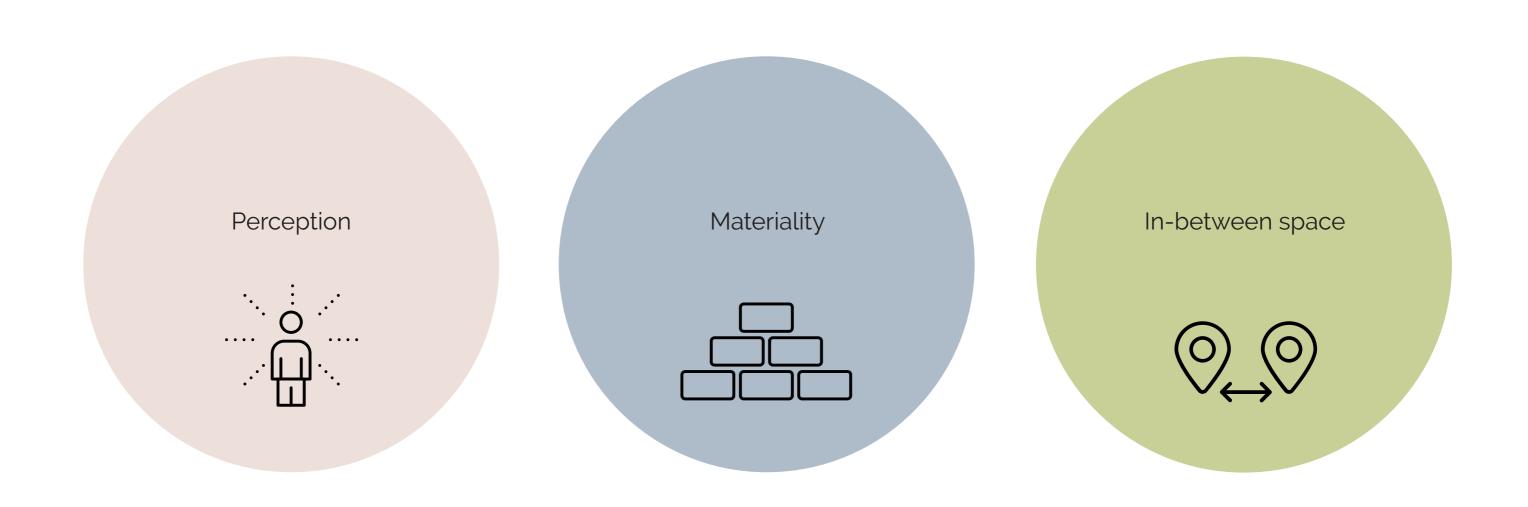
"The in-between is the common ground where conflicting polarities can again become twin phenomena."

Aldo van Eyck (1955)

MAIN QUESTION

What is the influence of the **materiality** on **people's perception** of the **in-between spaces** of the Rotterdam Harbour Police Station and how can this be used as input for the redesign?

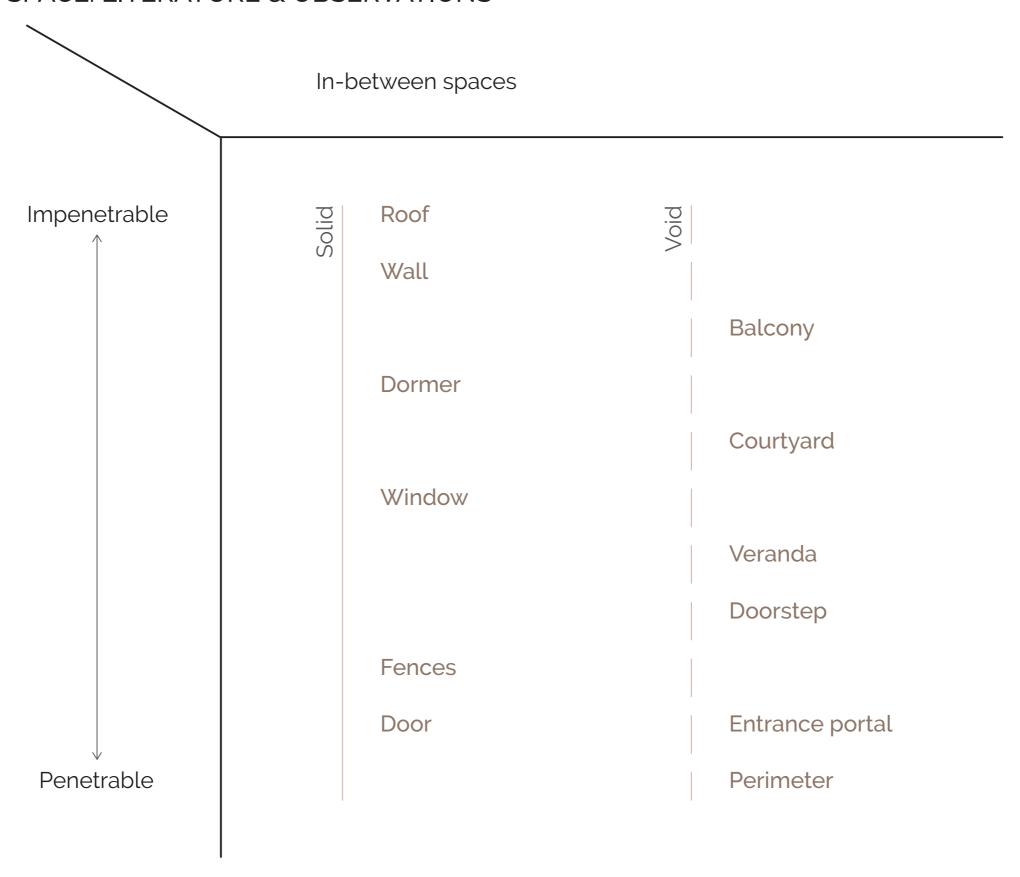
RESEARCH THEMES



MATERIALS AND DETAILS: ARCHIVE AND OBSERVATIONS

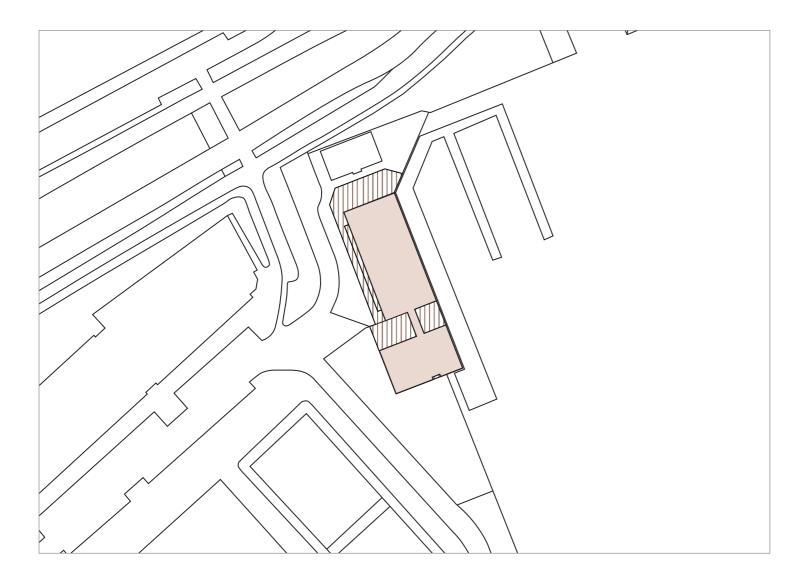


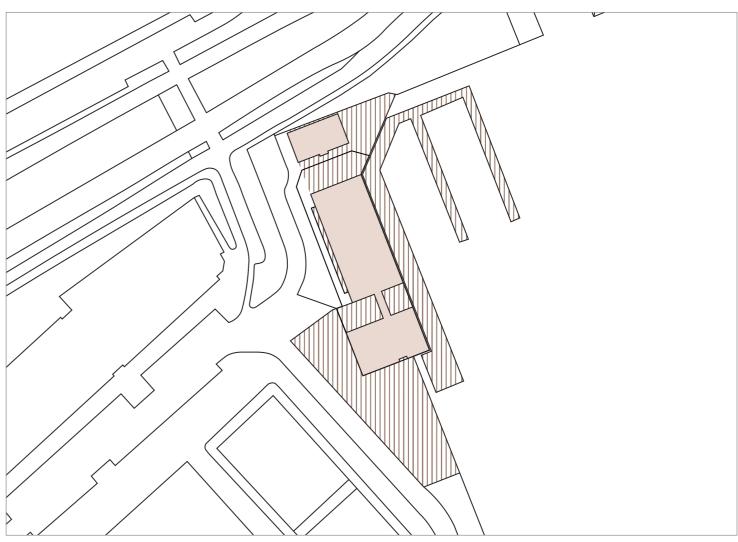
THE IN-BETWEEN SPACE: LITERATURE & OBSERVATIONS



THE IN-BETWEEN SPACE: LITERATURE & OBSERVATIONS

- Original borders as designed in 1933
- Actual borders in the current situation





THE IN-BETWEEN SPACE: LITERATURE & OBSERVATIONS



- Descriptive perceptive qualities
- 36 adjectives
- Synonyms and antonyms

Soft	Hard	Fragile	Resistant	Informal	Formal
Smooth	Rough	Open	Closed	Feminine	Masculine
Thin	Thick	Colourful	Monochrome	Friendly	Unfriendly
Flexible	Firm	Shiny	Matt	Pleasant	Unpleasant
Warm	Cold	Frivolous	Sober	Pretty	Ugly
Light	Heavy	Elegant	Dull	Inviting	Obstructing

- 6 buildings, incl. the Harbour Police Station
- Facades, windows and entrances





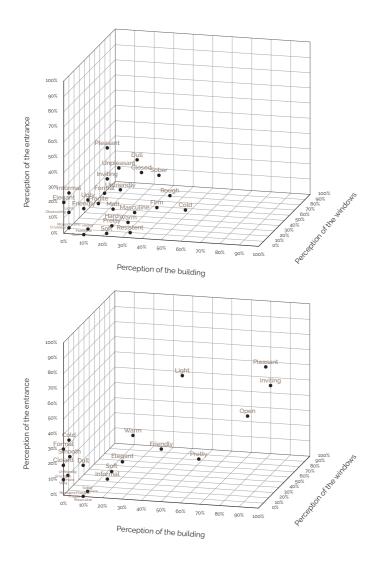


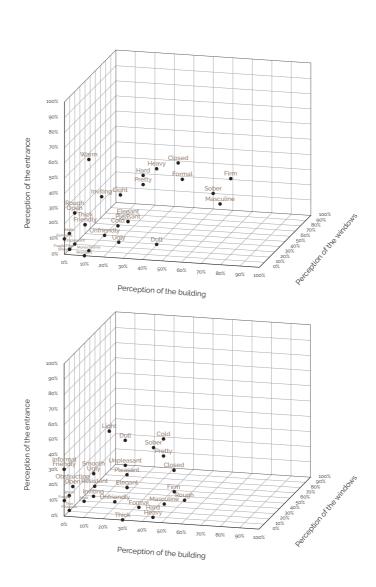


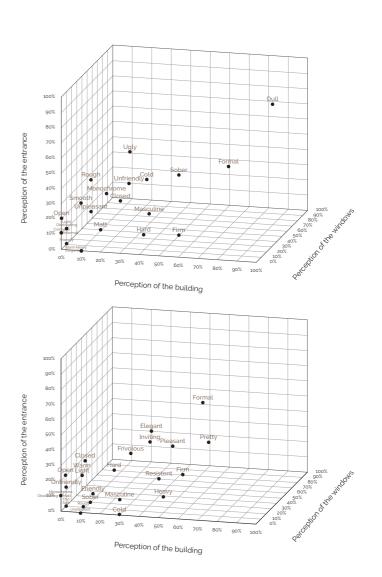




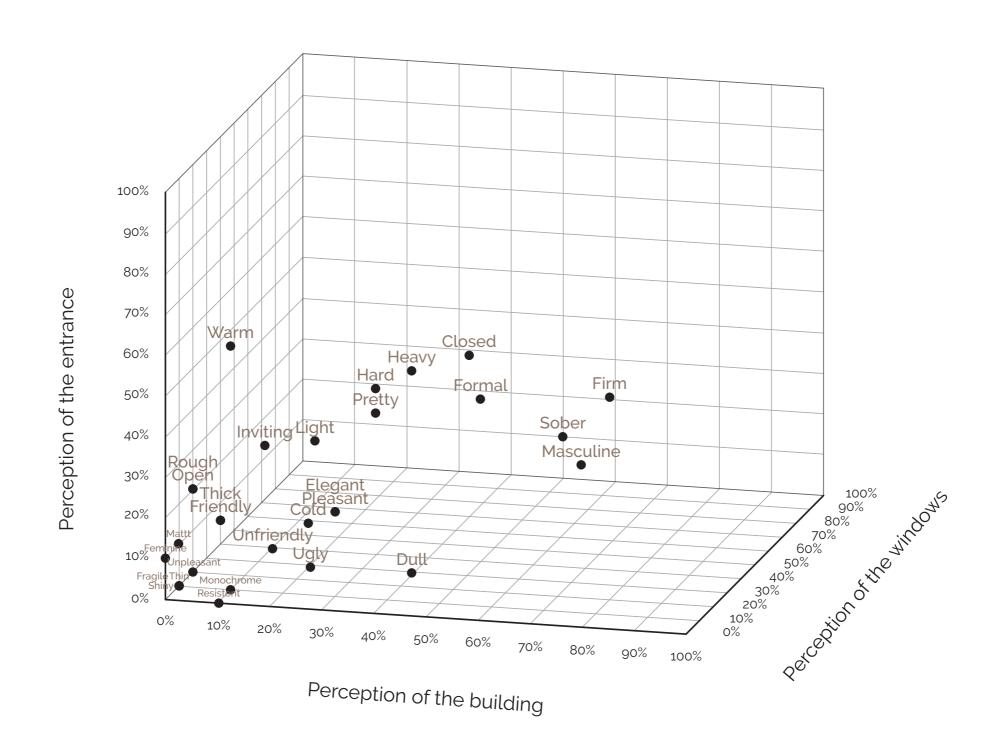
- 6 buildings, incl. the Harbour Police Station
- Facades, windows and entrances





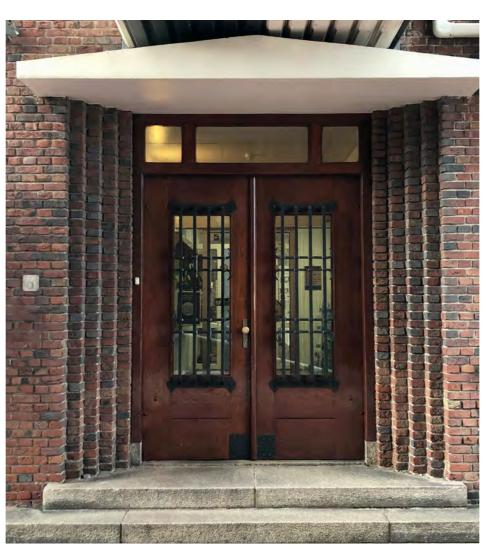


- 6 buildings, incl. the Harbour Police Station
- Facades, windows and entrances



- 1940: dull, informal, closed
- 1933: warm, pretty, inviting
- 1994: ugly, unfriendly, dull







INVITING PLINTHS

"Brown bricks are warm."

"Big aluminium glass doors are unfriendly when they do not open by theirselves."

"An **open structure** is inviting, pleasant and friendly"

"Large patio doors feel inviting, because entering is an experience in itself."

"When I see curtens behind a window, I know it has a private function."

"Because of the fact that you can look into the building, you know what happens there and that it is fun. I makes me curious."

"It is inviting that you can see where you are going."

"Multiple windows create an inviting appearance. A lot of light causes a spacious and open feeling."

"It is more inviting if the inside is **lit**, so you can peek."

"Its **openness and lightness** invites me."

"Slim windows are elegant, but not necessarily inviting as they do not contribute to transparency."

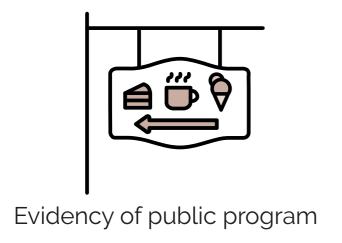
"Because the windows are **set back** behind the bricks, a warm appearance is created."

"Big windows create an open and light character, I like that."

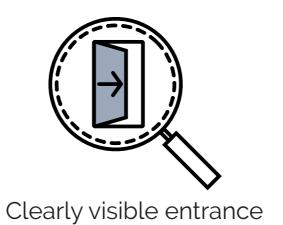
"Windows with a touch are pleasant and inviting to see."

"I think it is pleasant and inviting that the windows have a pattern, it makes it everythink but dull."

INVITING PLINTHS

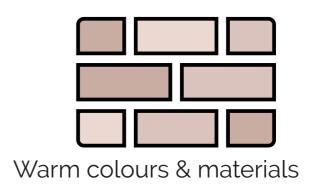










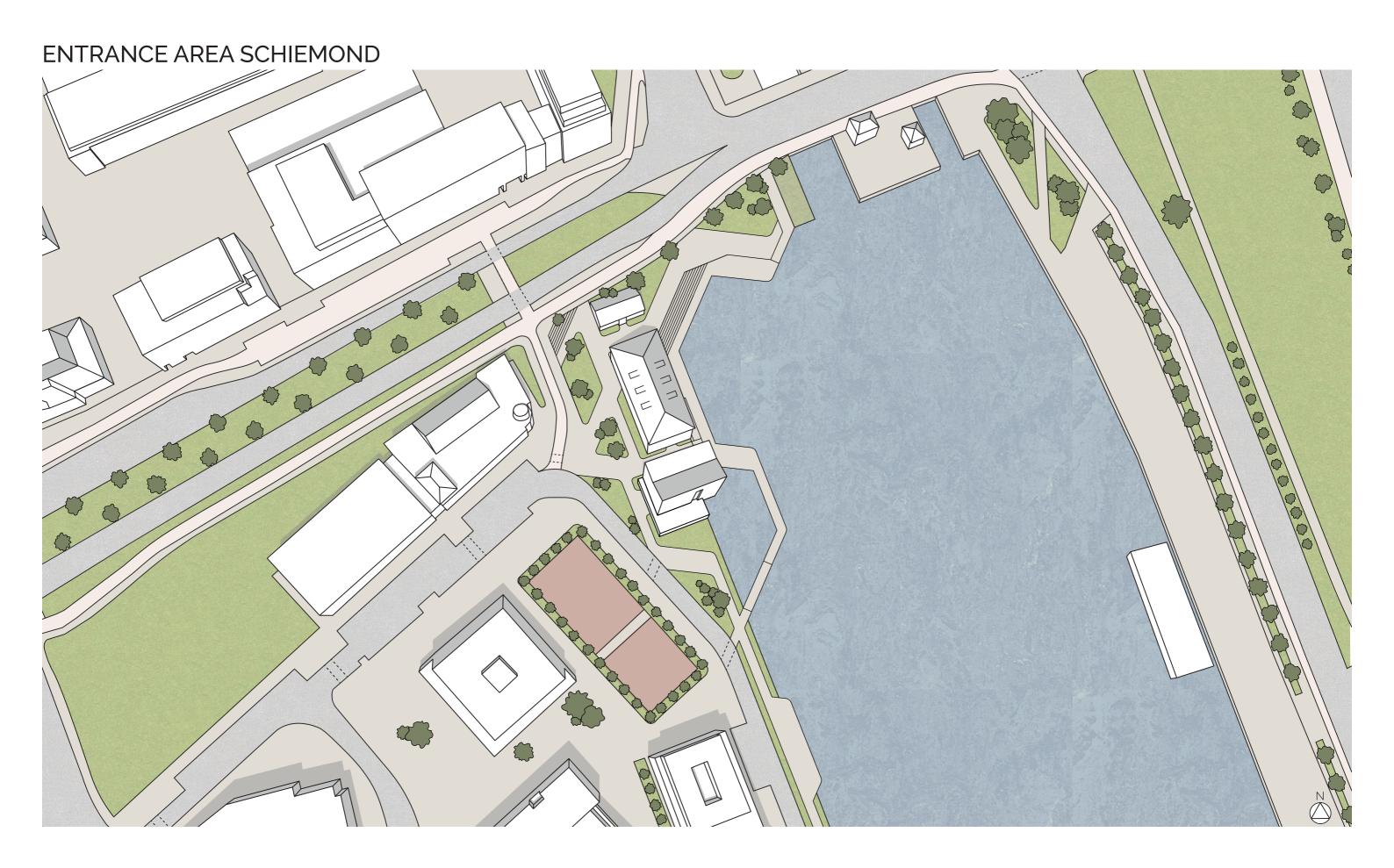


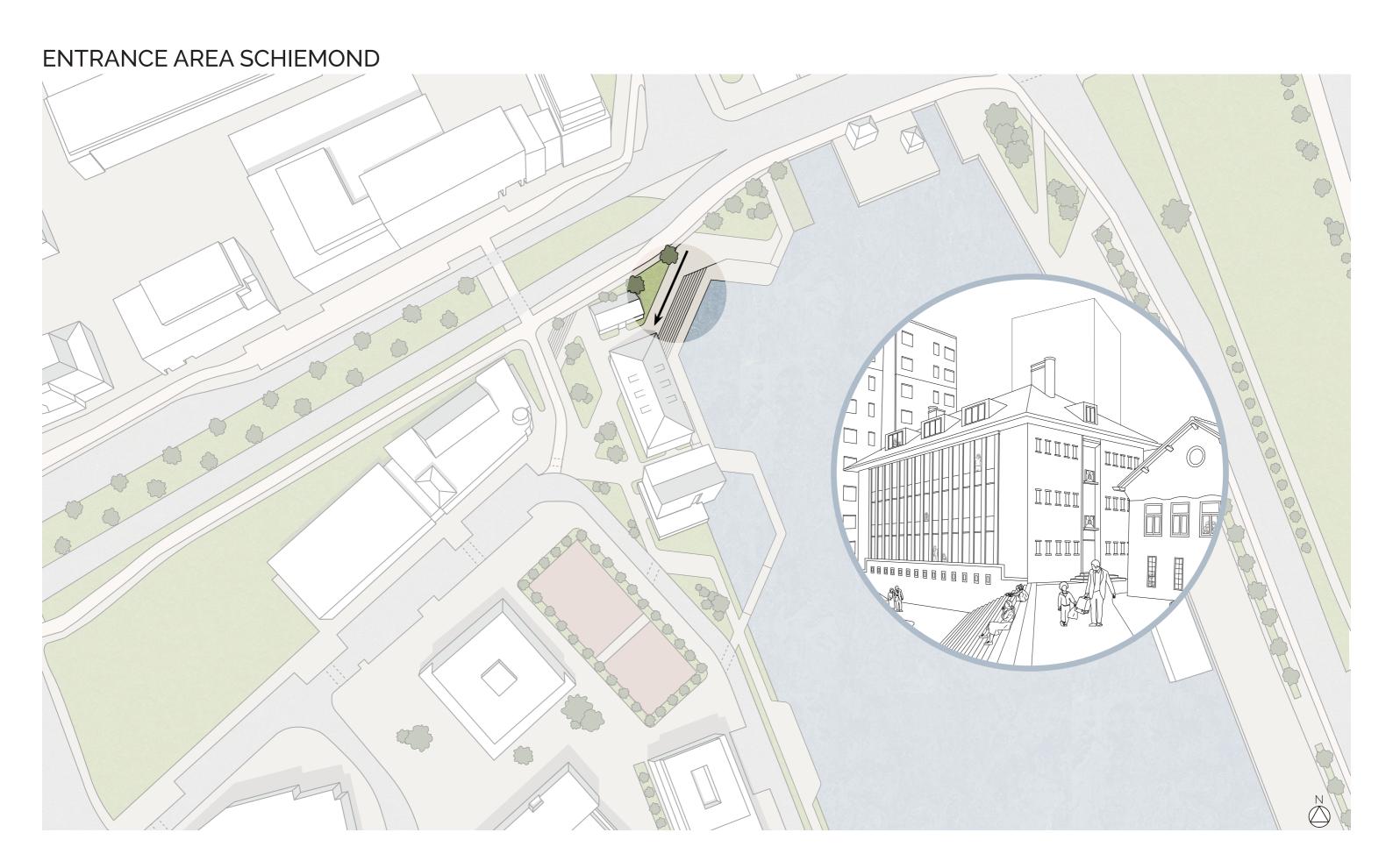
REFLECTION

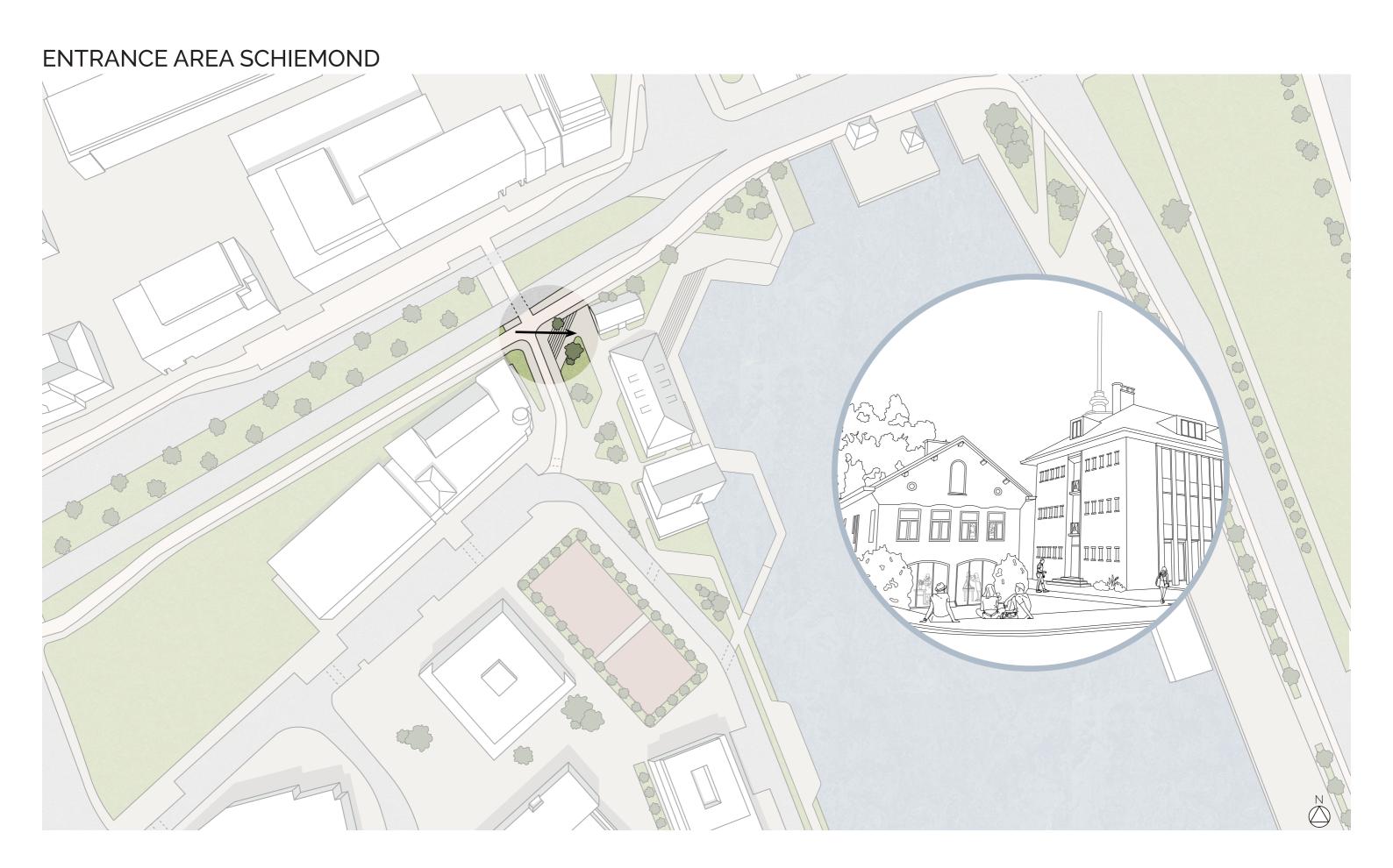
- 1933: warm, pretty, inviting
- Jumps in the facade, transparency, warm material

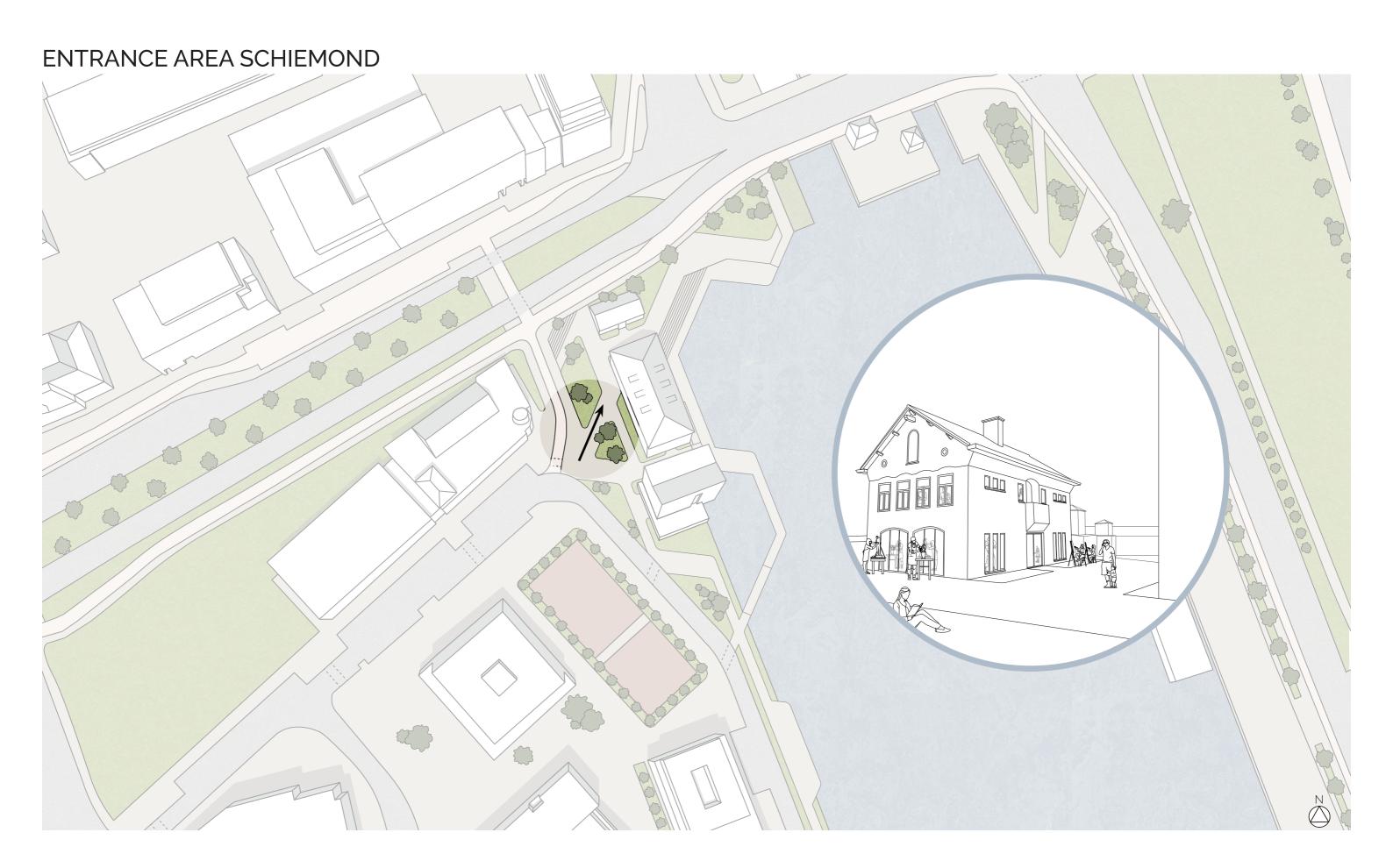


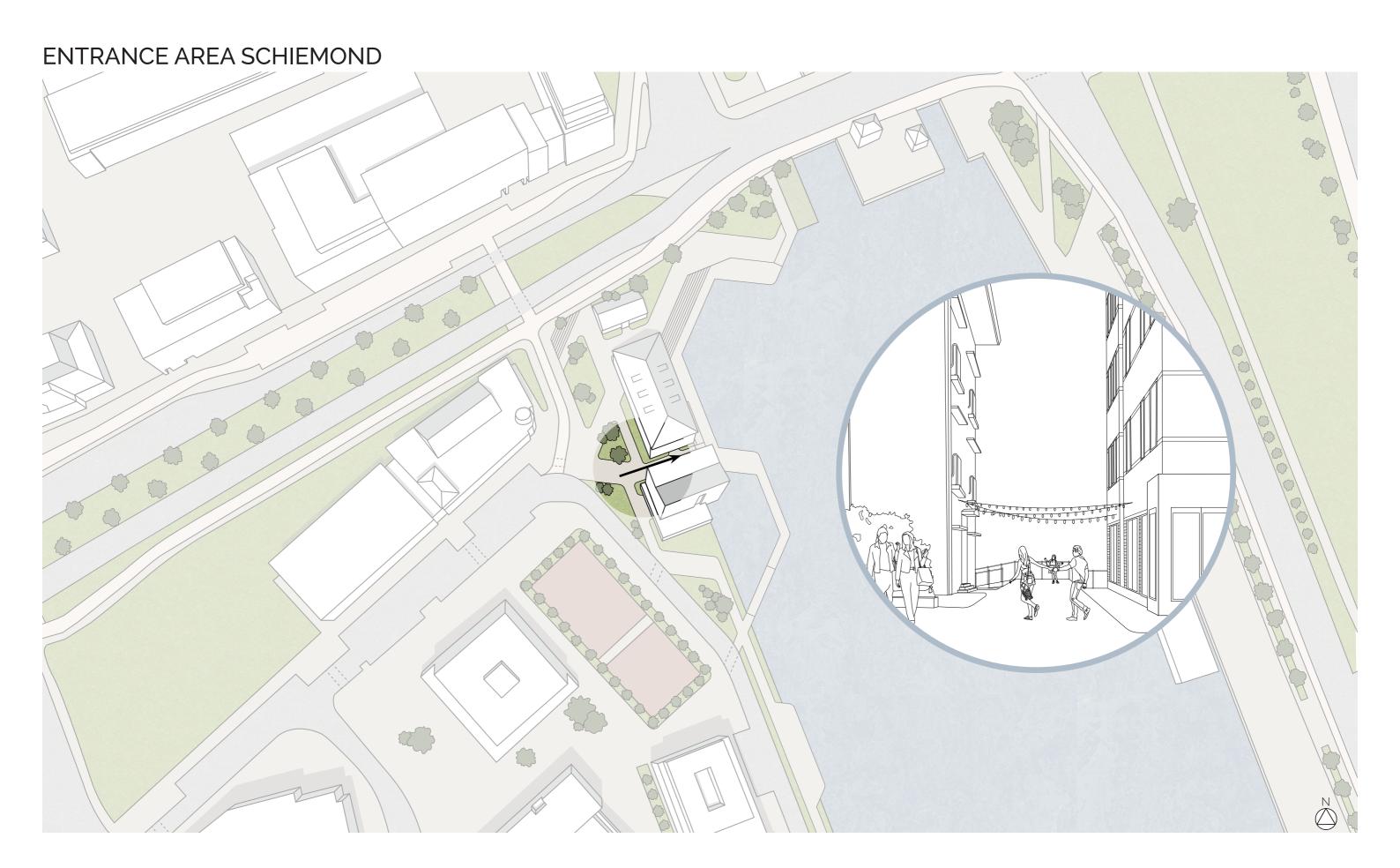
DESIGN

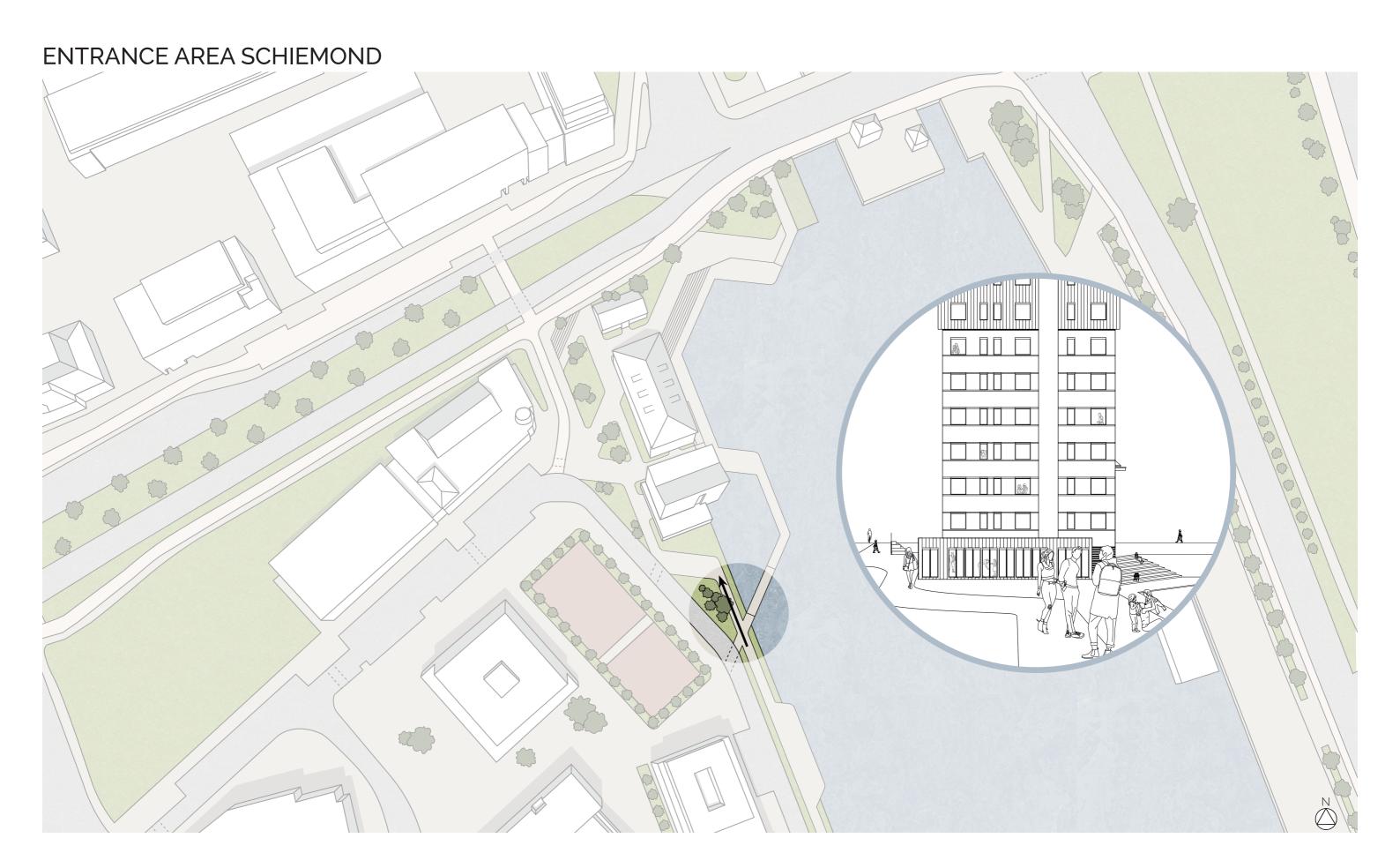


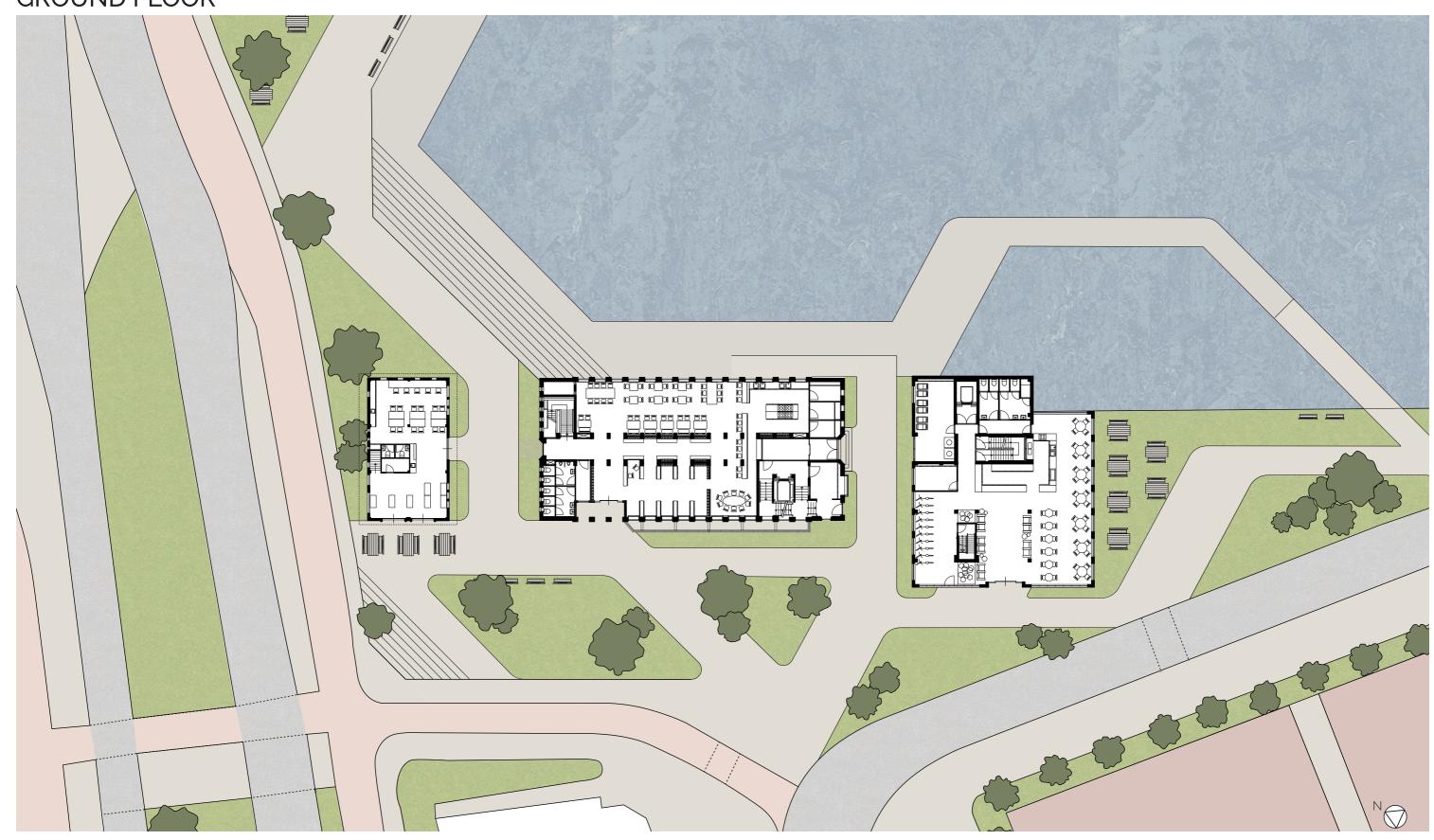


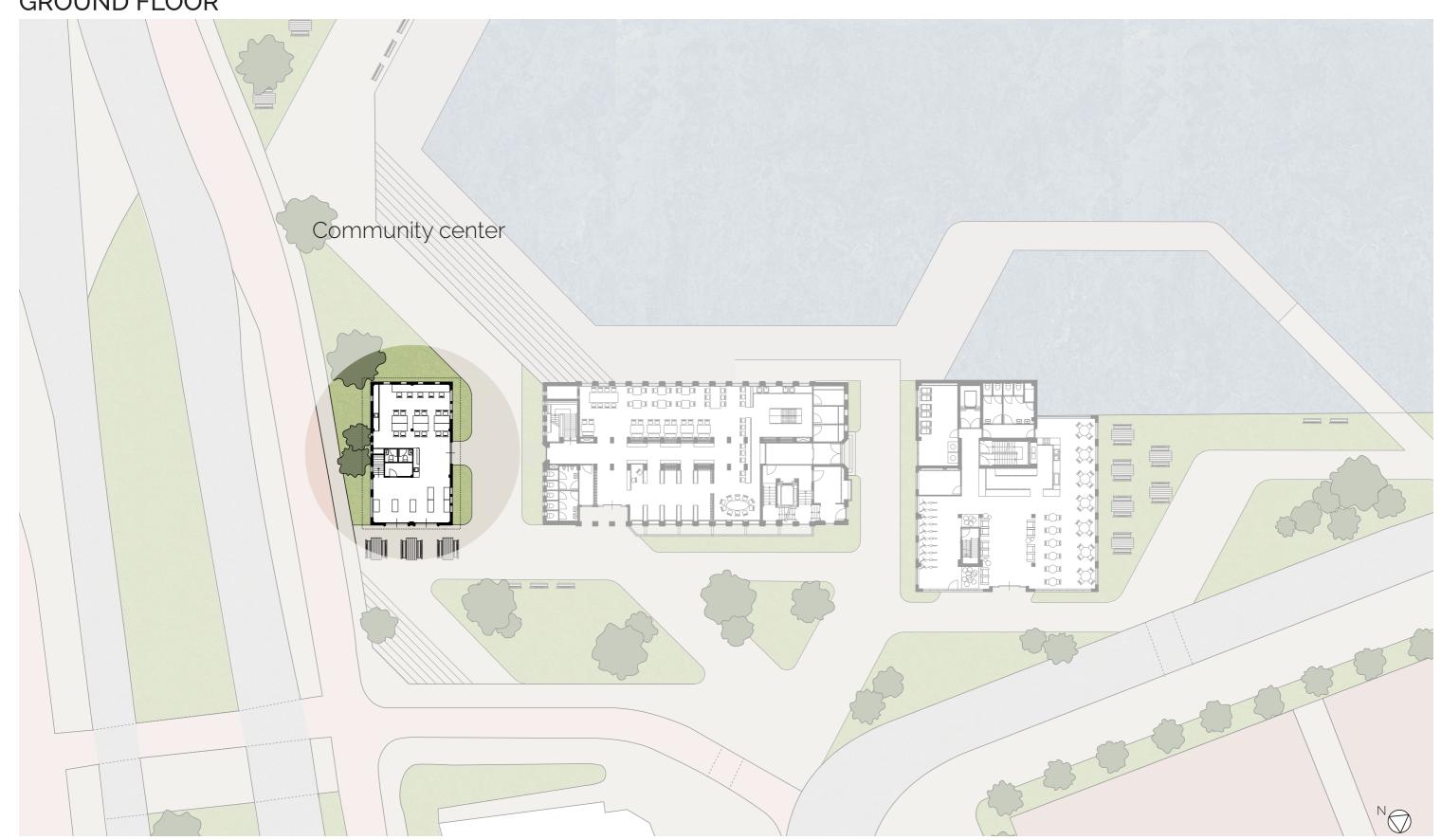


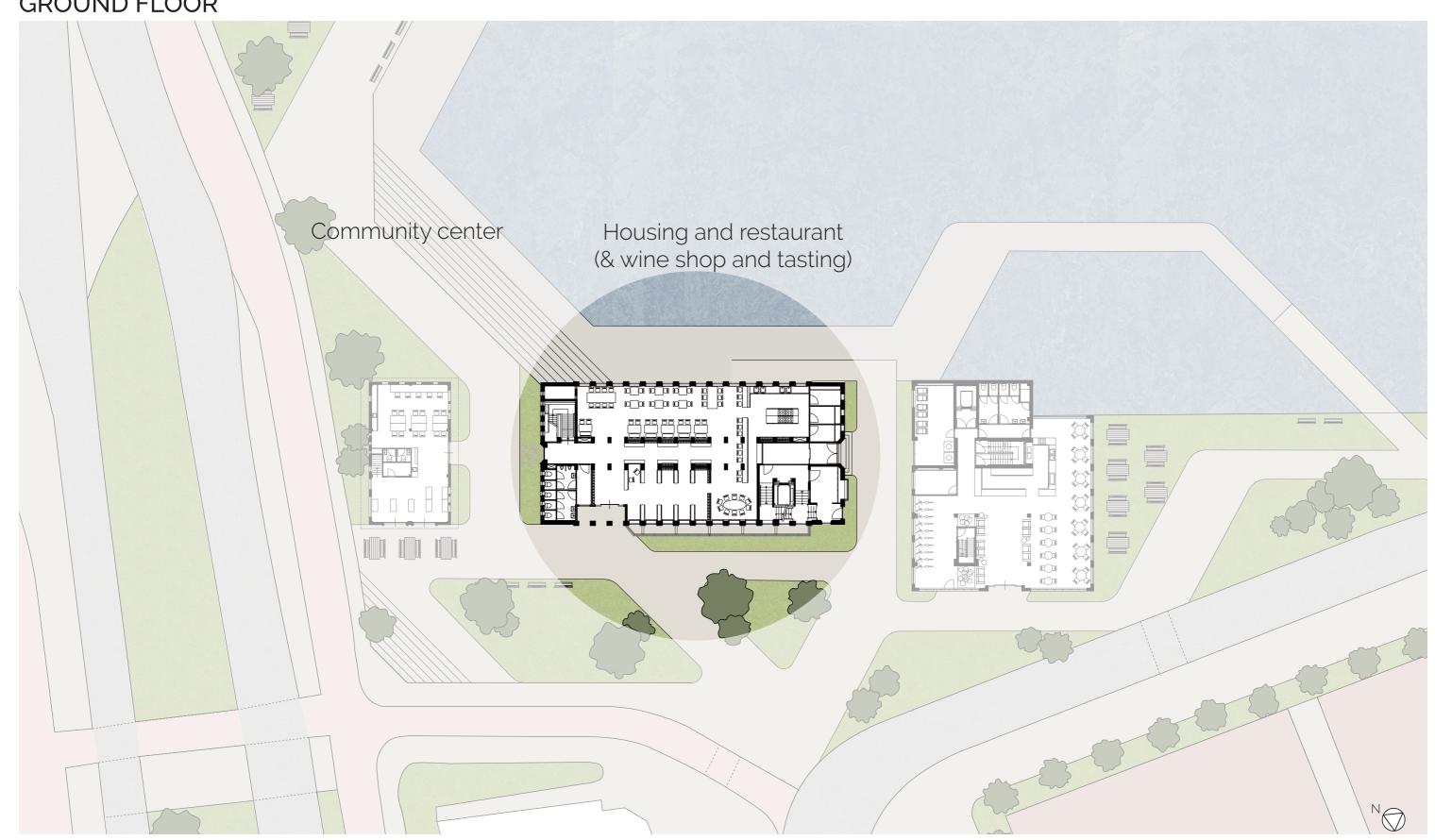


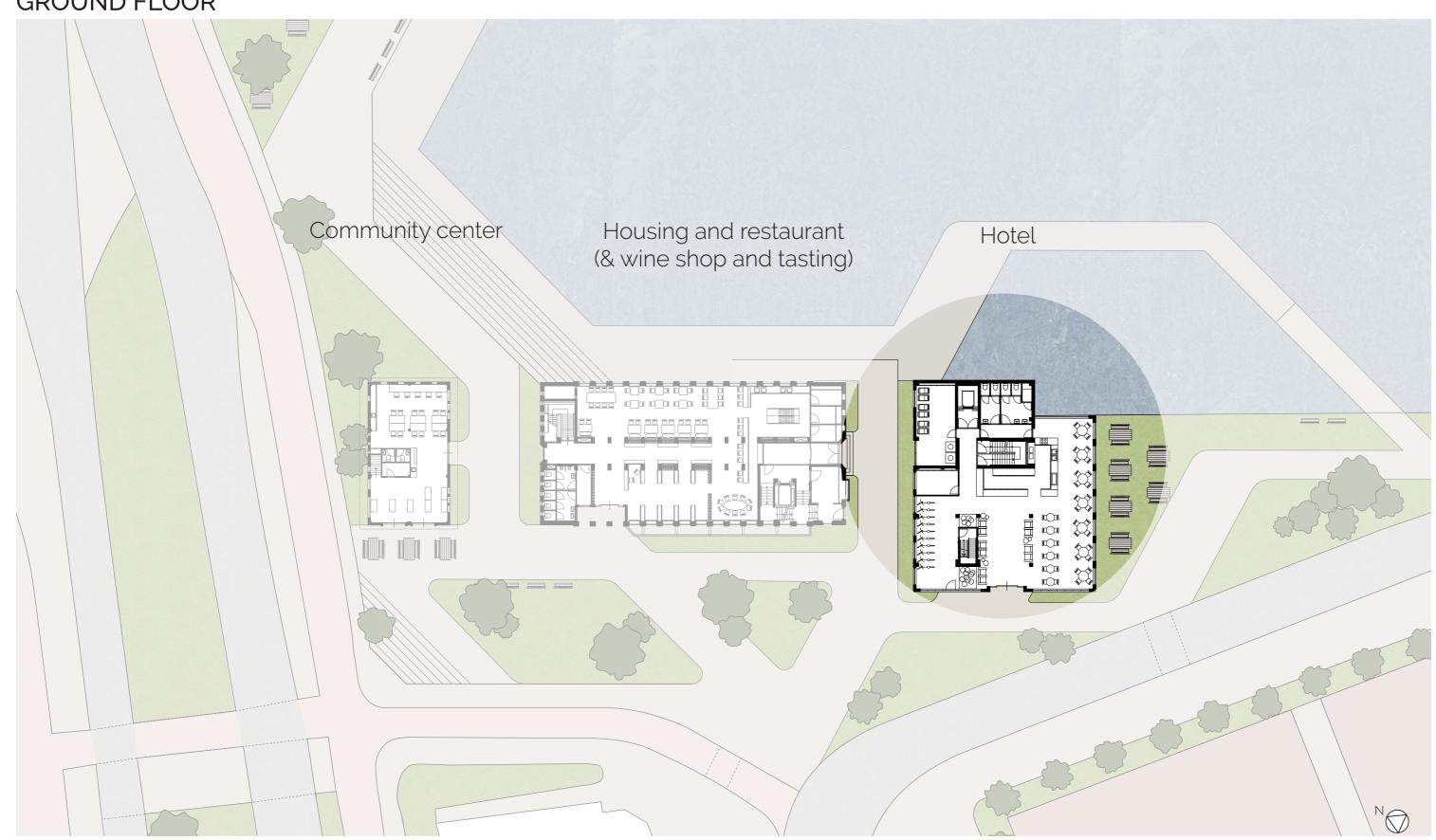




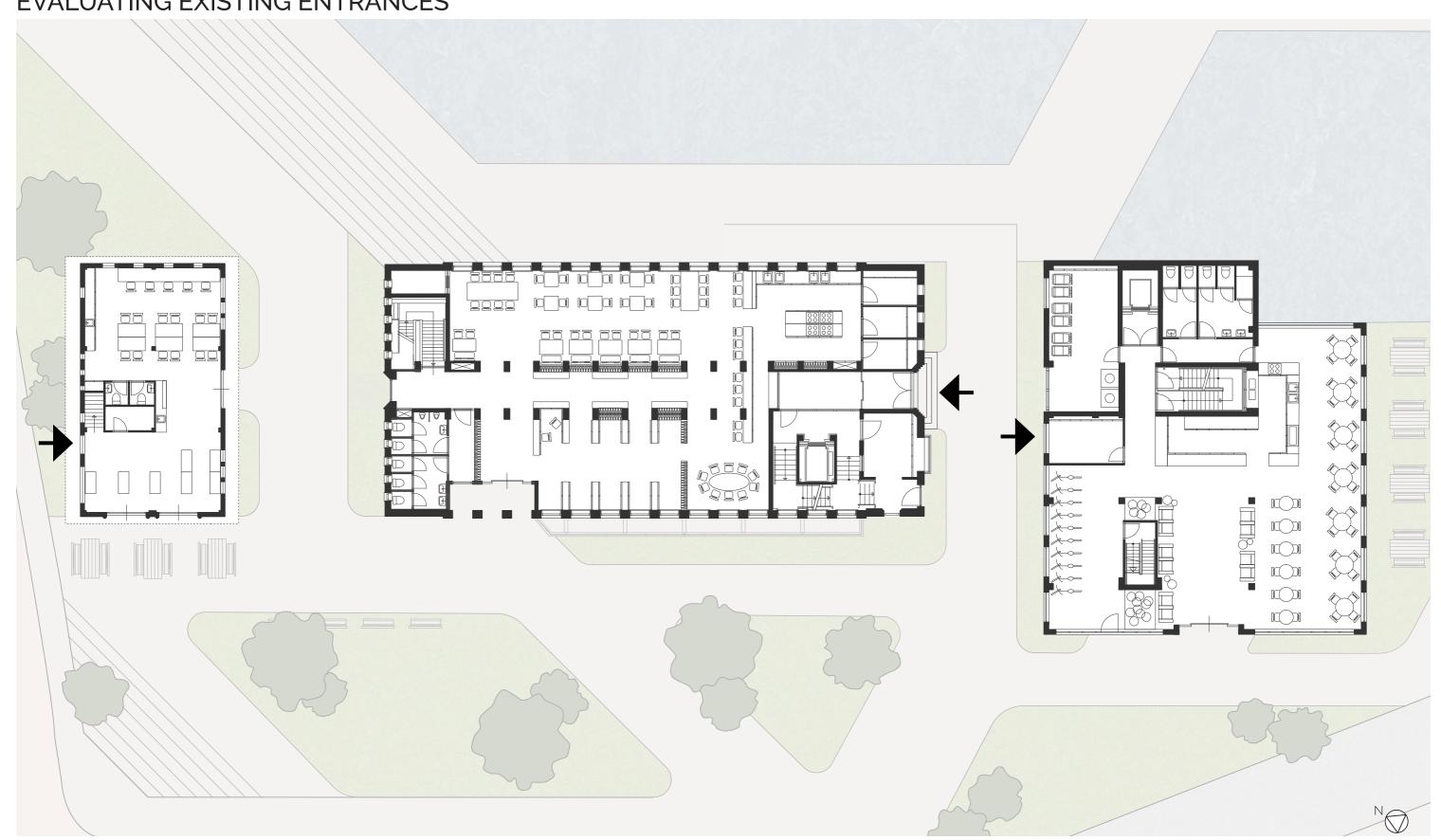




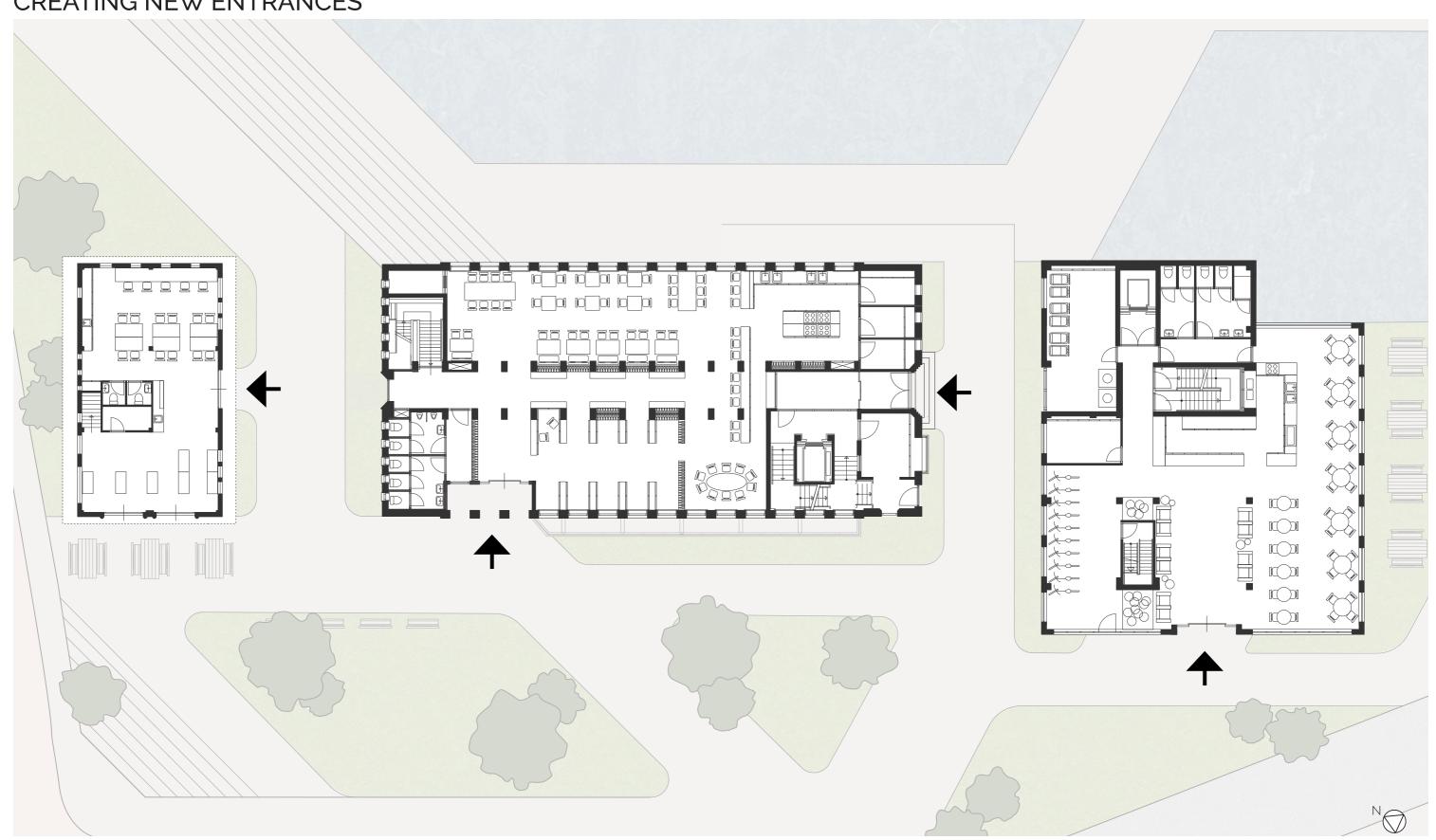




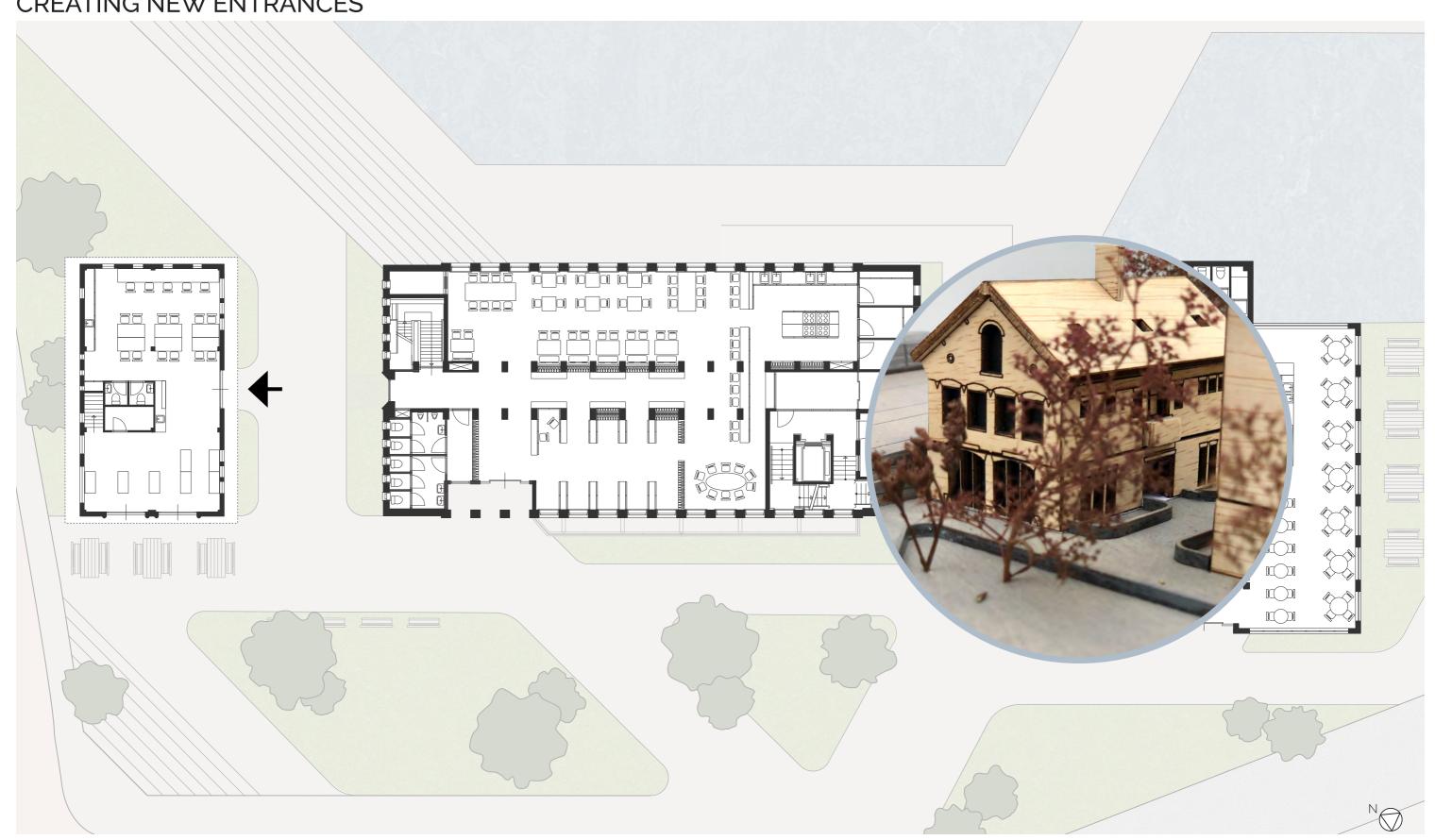
EVALUATING EXISTING ENTRANCES



CREATING NEW ENTRANCES



CREATING NEW ENTRANCES

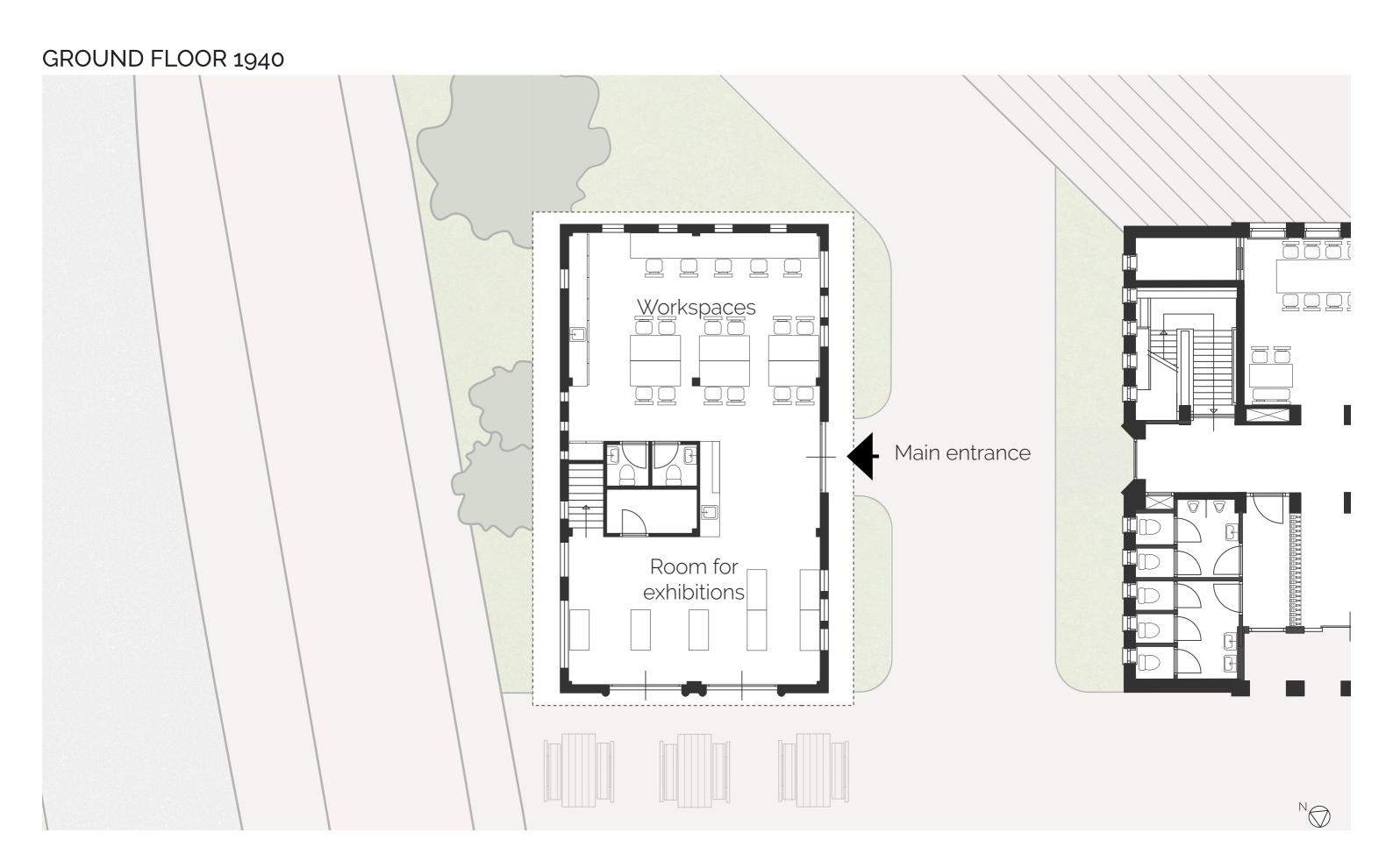


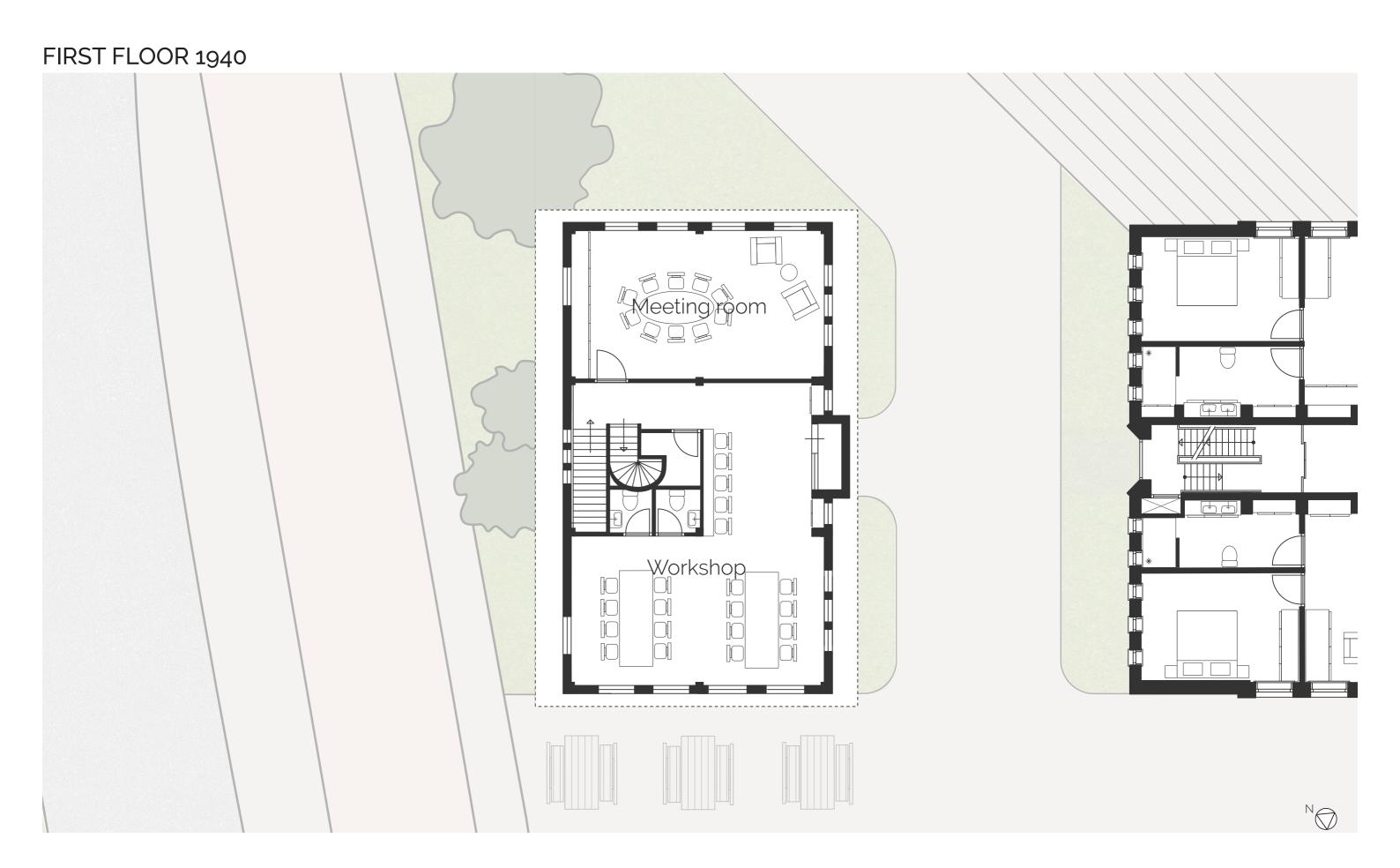
ENTRANCE

1940 BUILDING

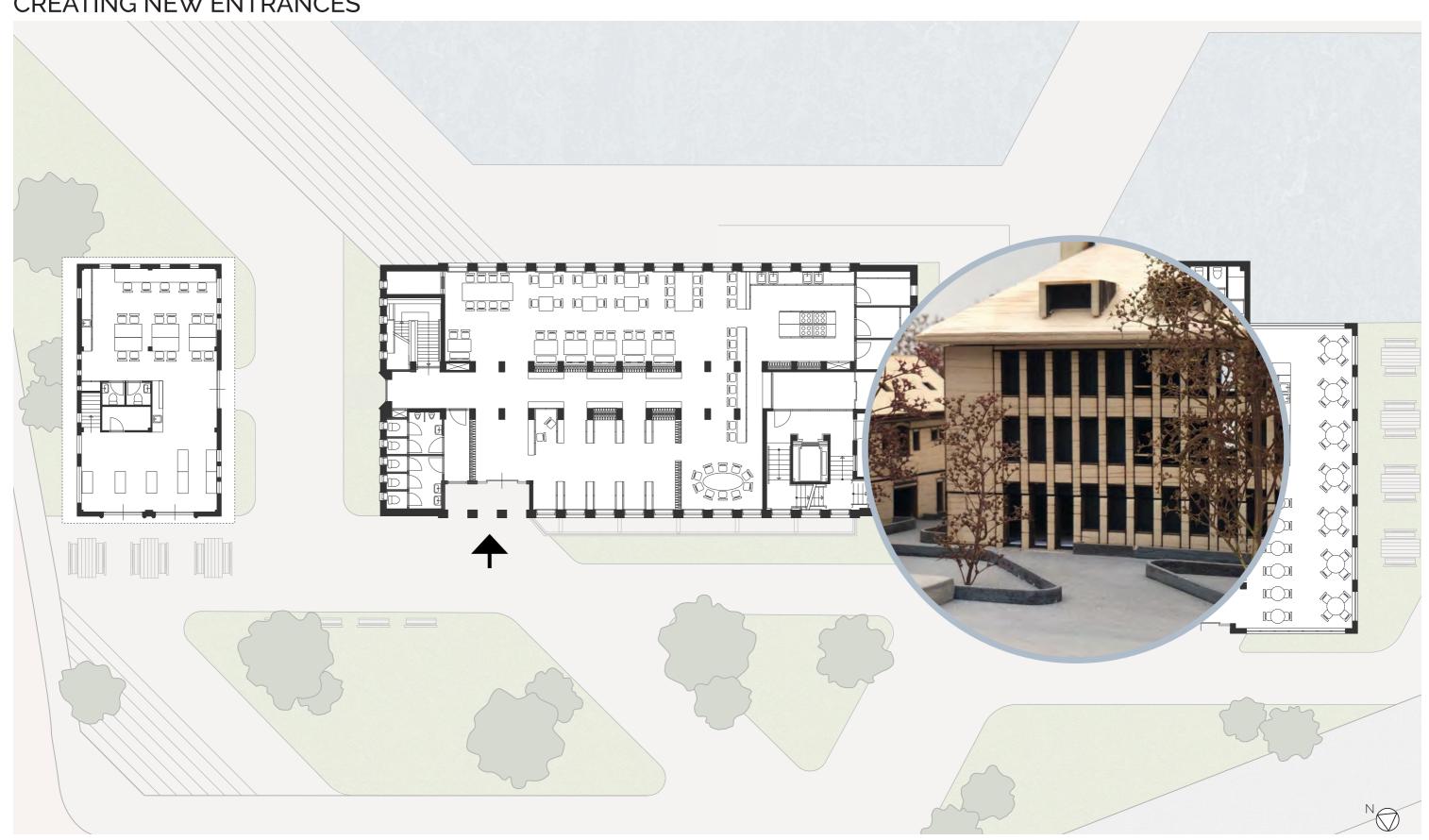








CREATING NEW ENTRANCES



ENTRANCE





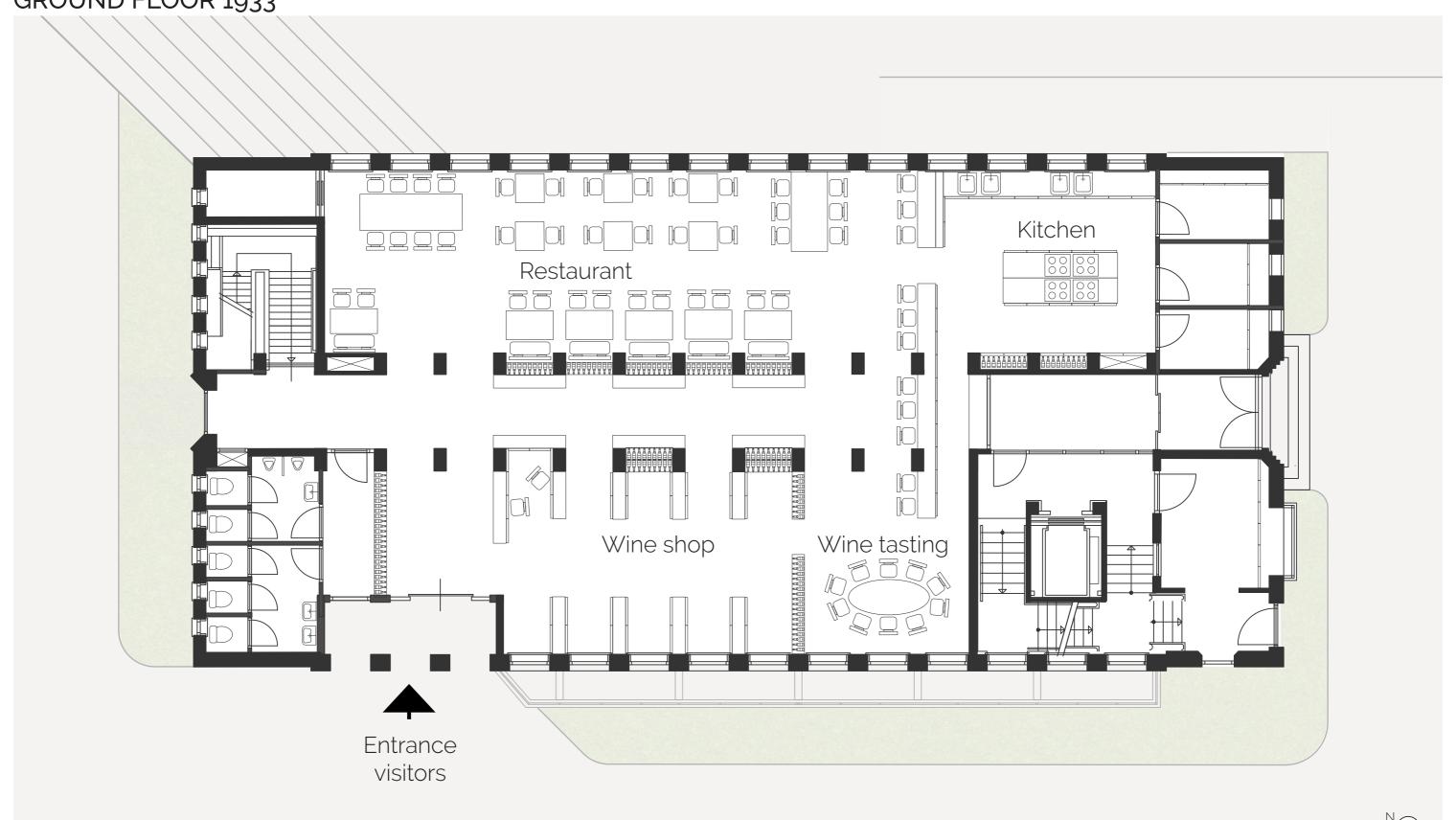




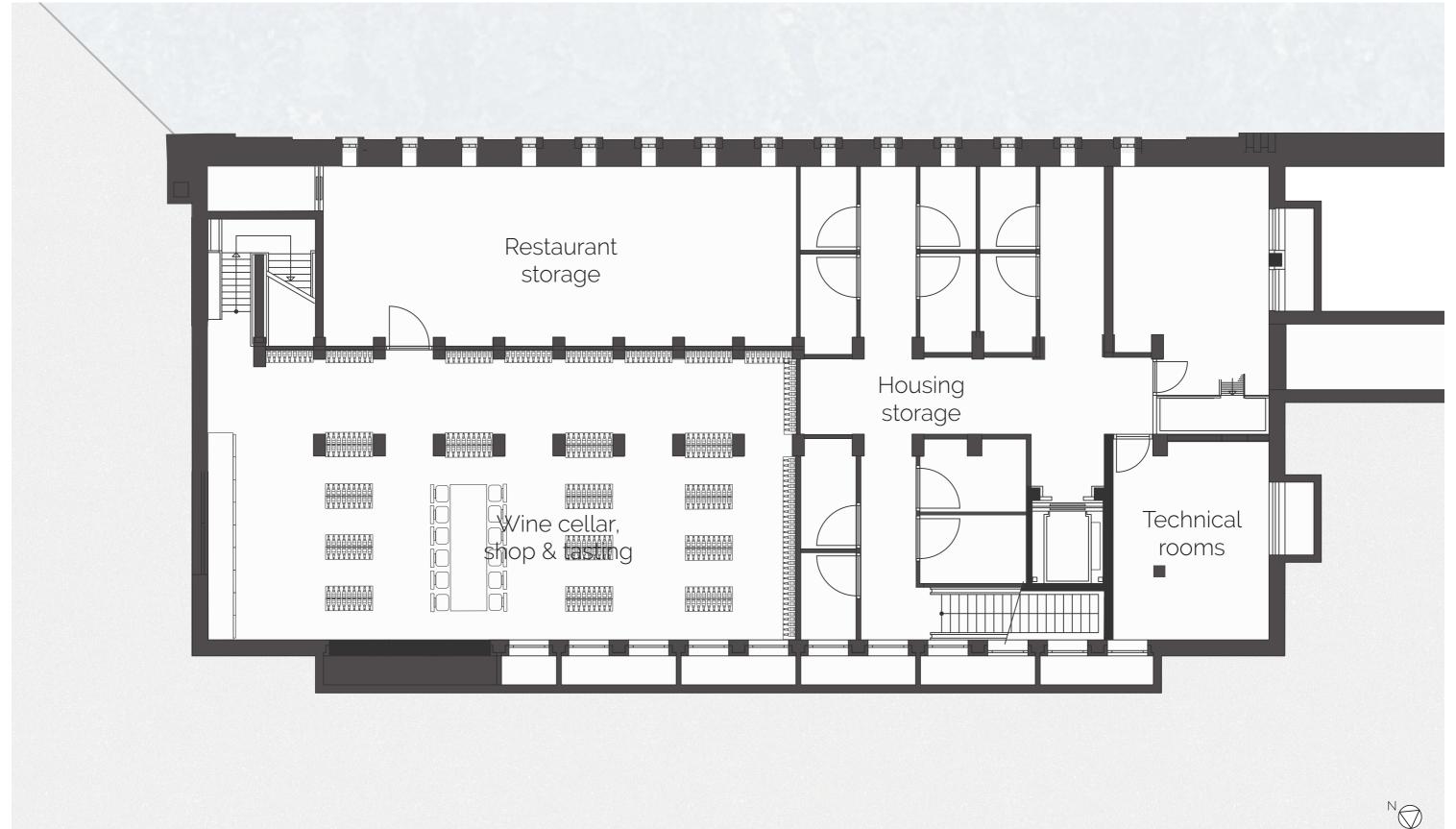




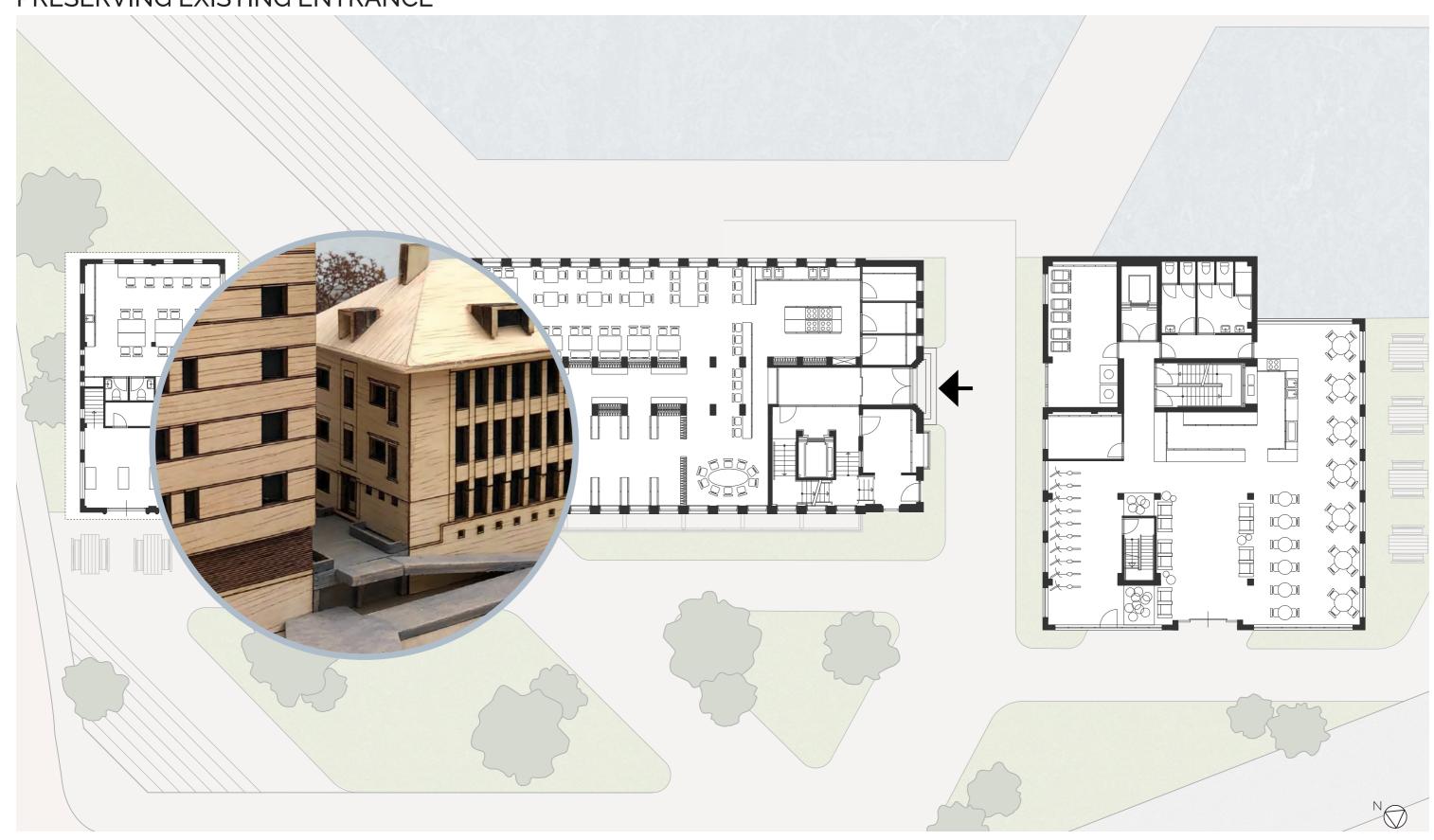


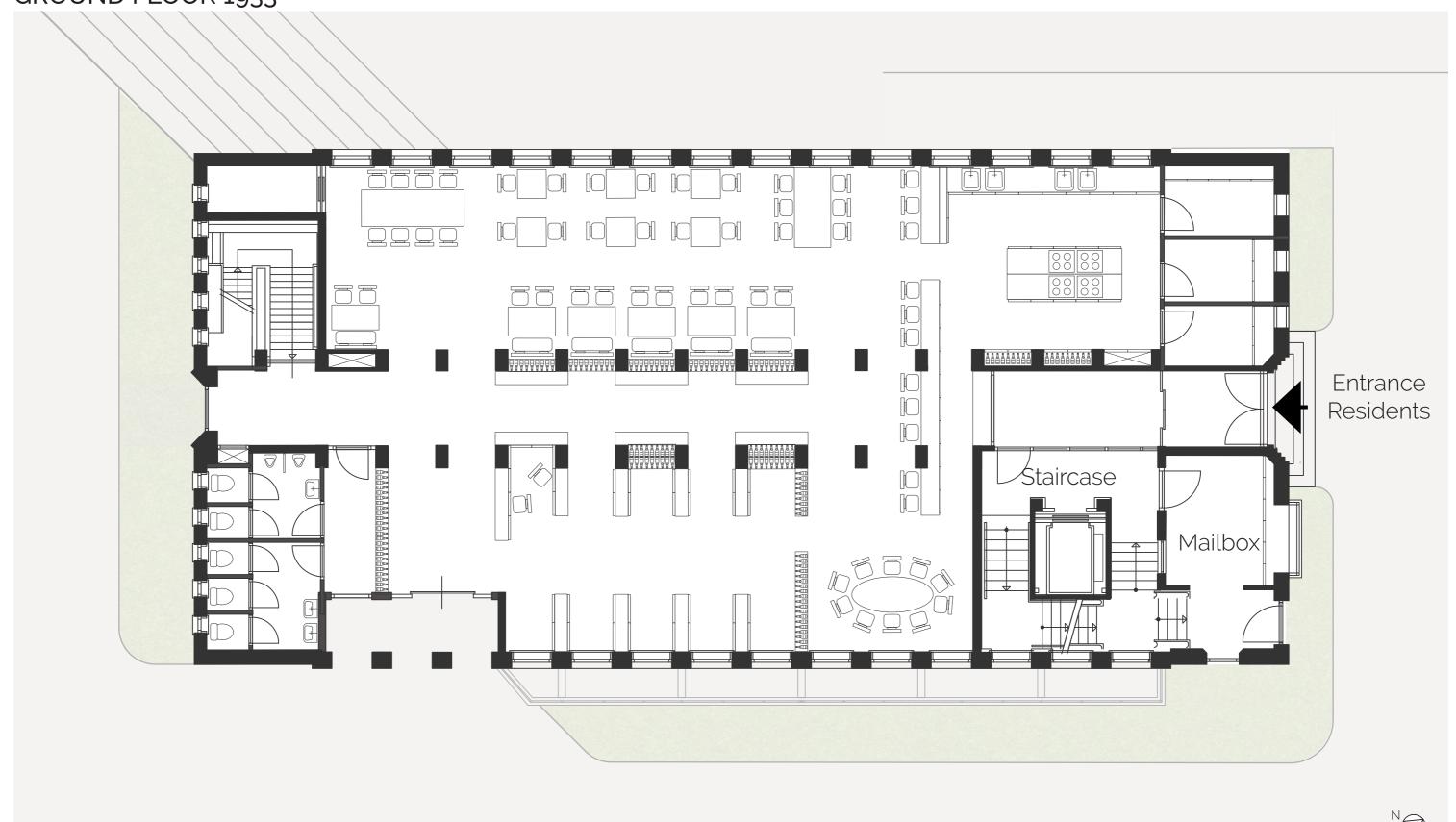


BASEMENT 1933

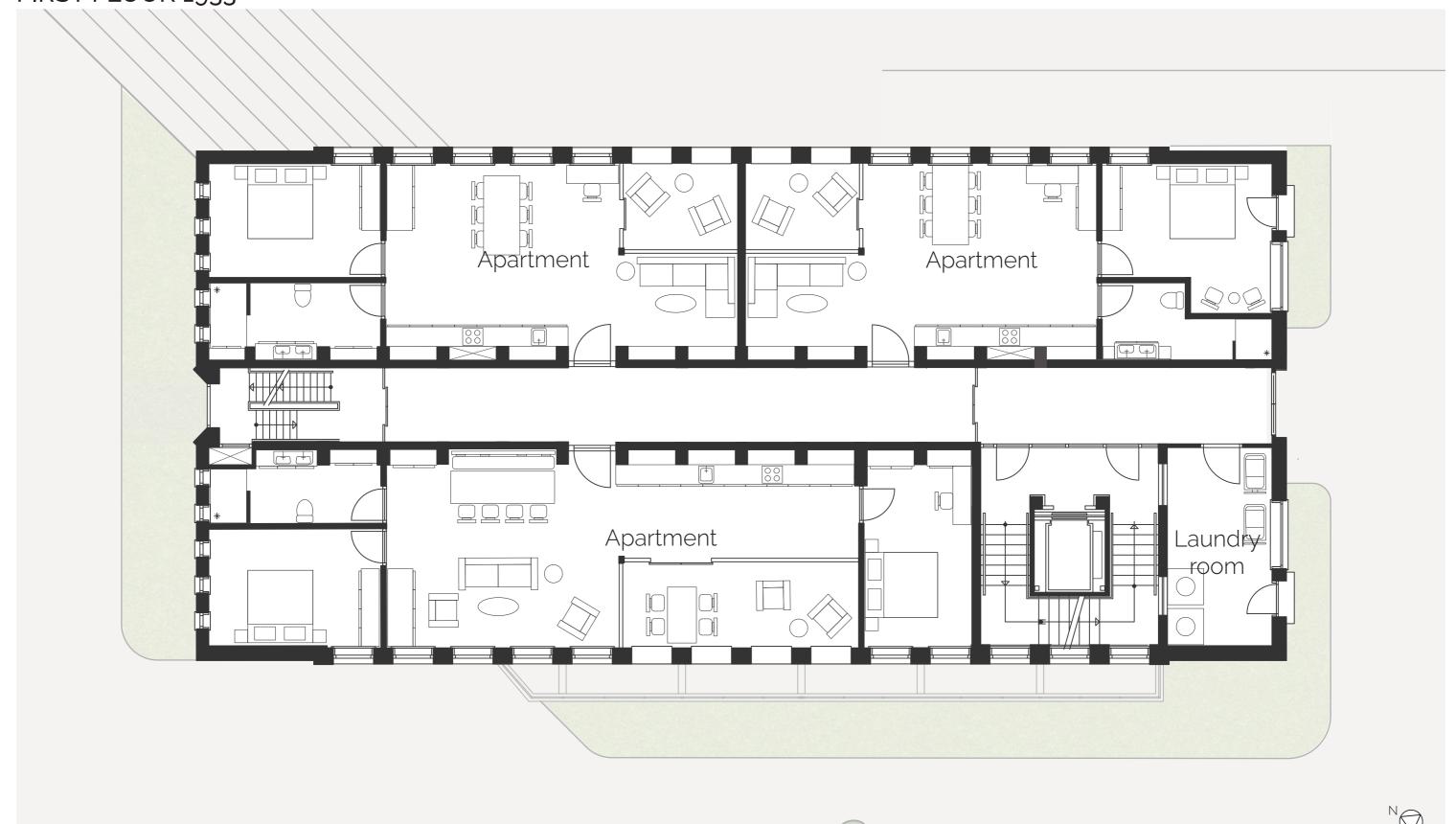


PRESERVING EXISTING ENTRANCE

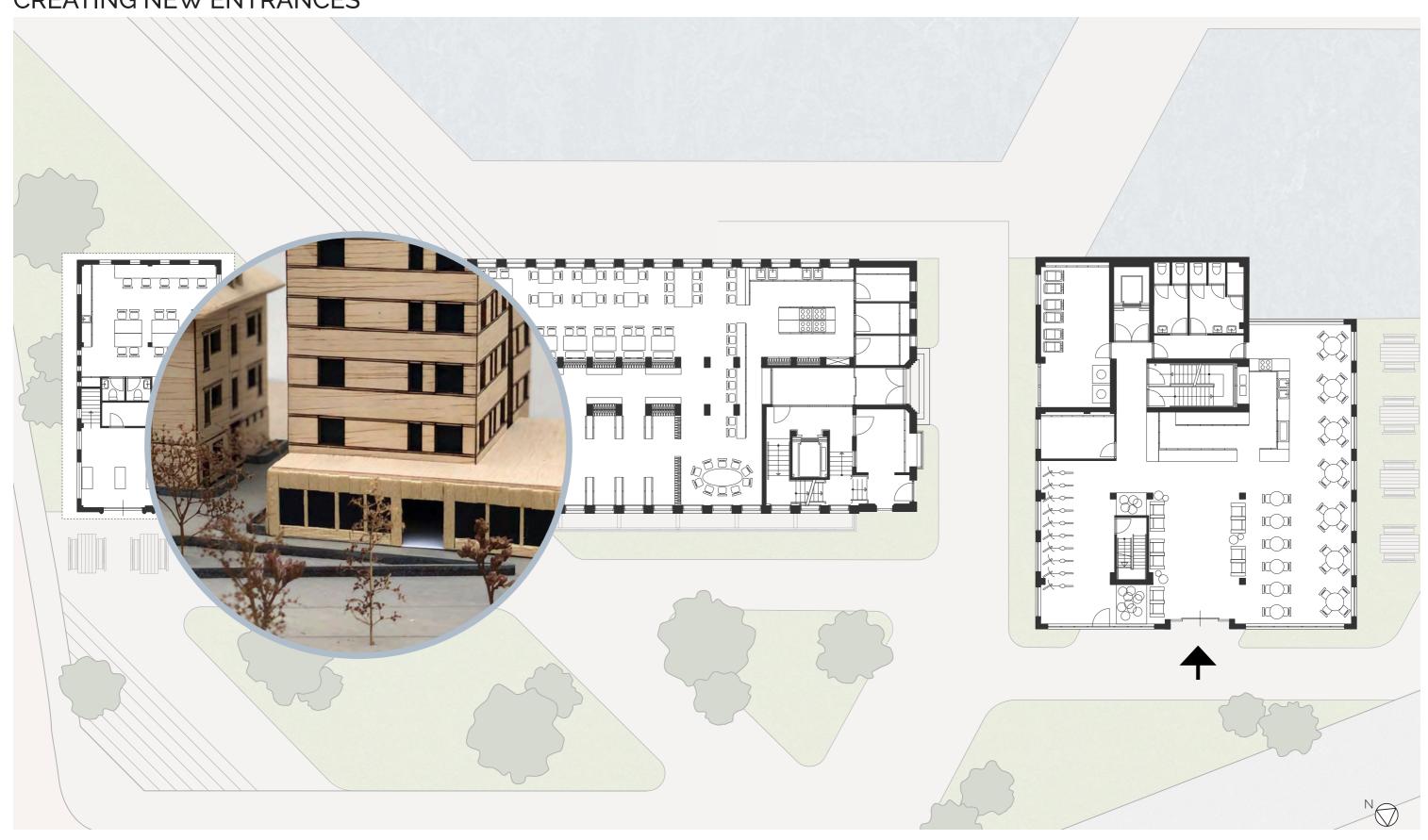




FIRST FLOOR 1933

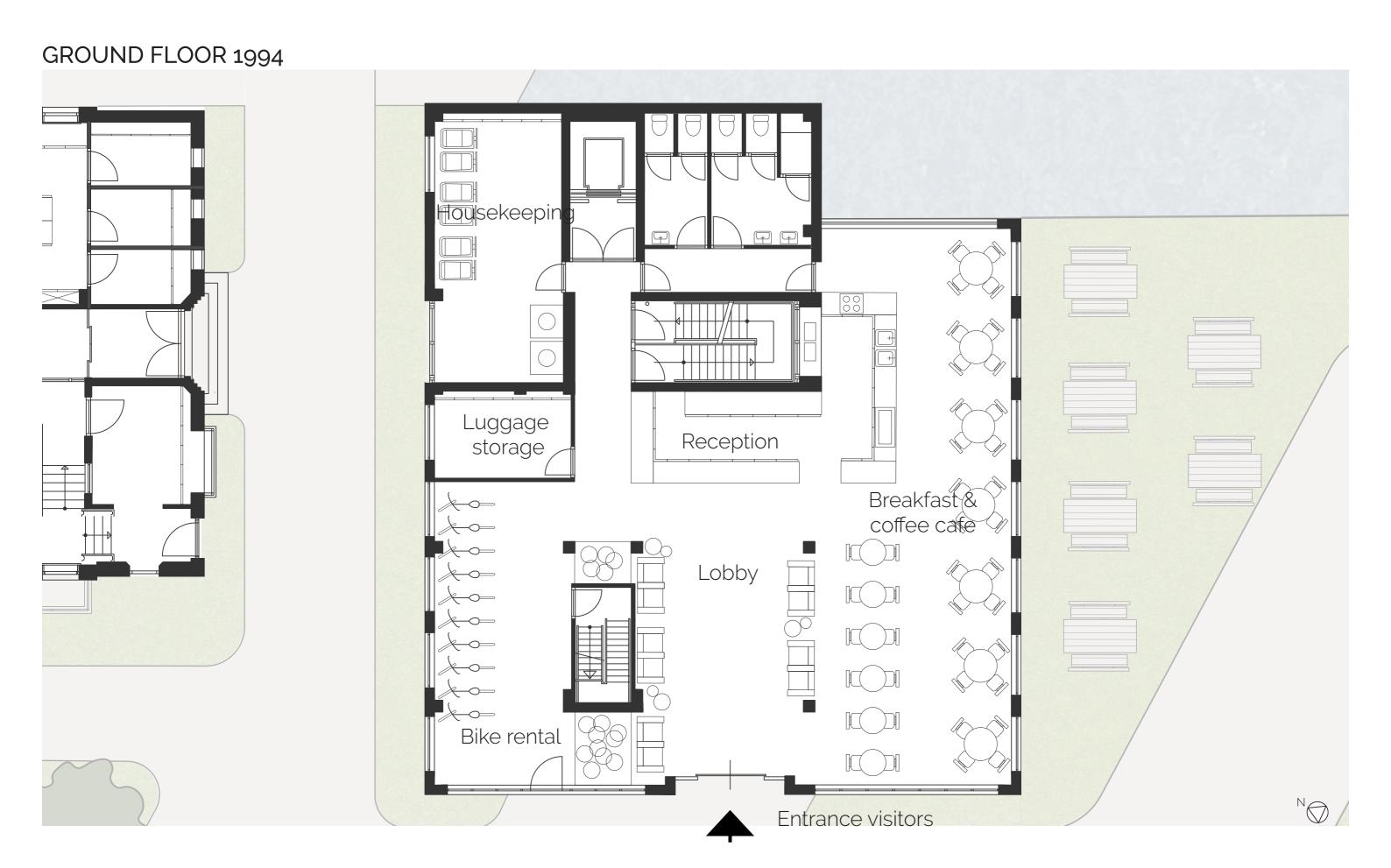


CREATING NEW ENTRANCES

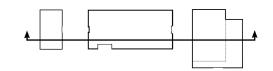


ENTRANCE









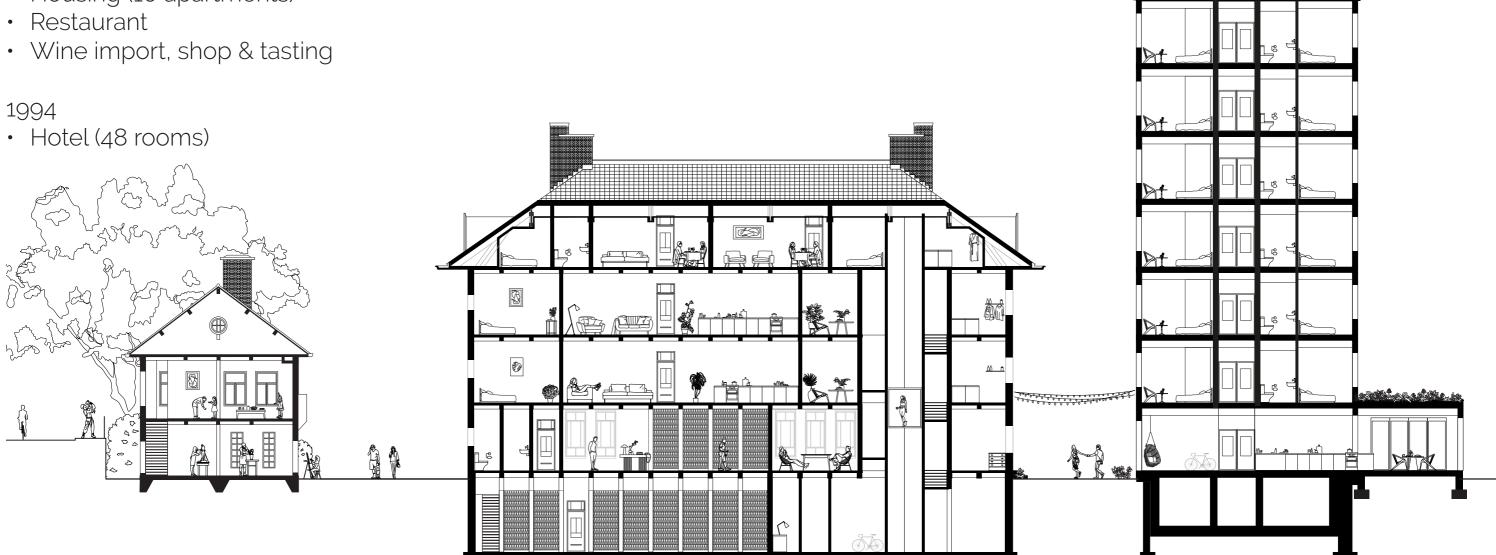
NORTH - SOUTH

1940

- Community center
- Workshop & gallery

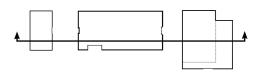
1933

- Housing (10 apartments)



25°C

SECTION

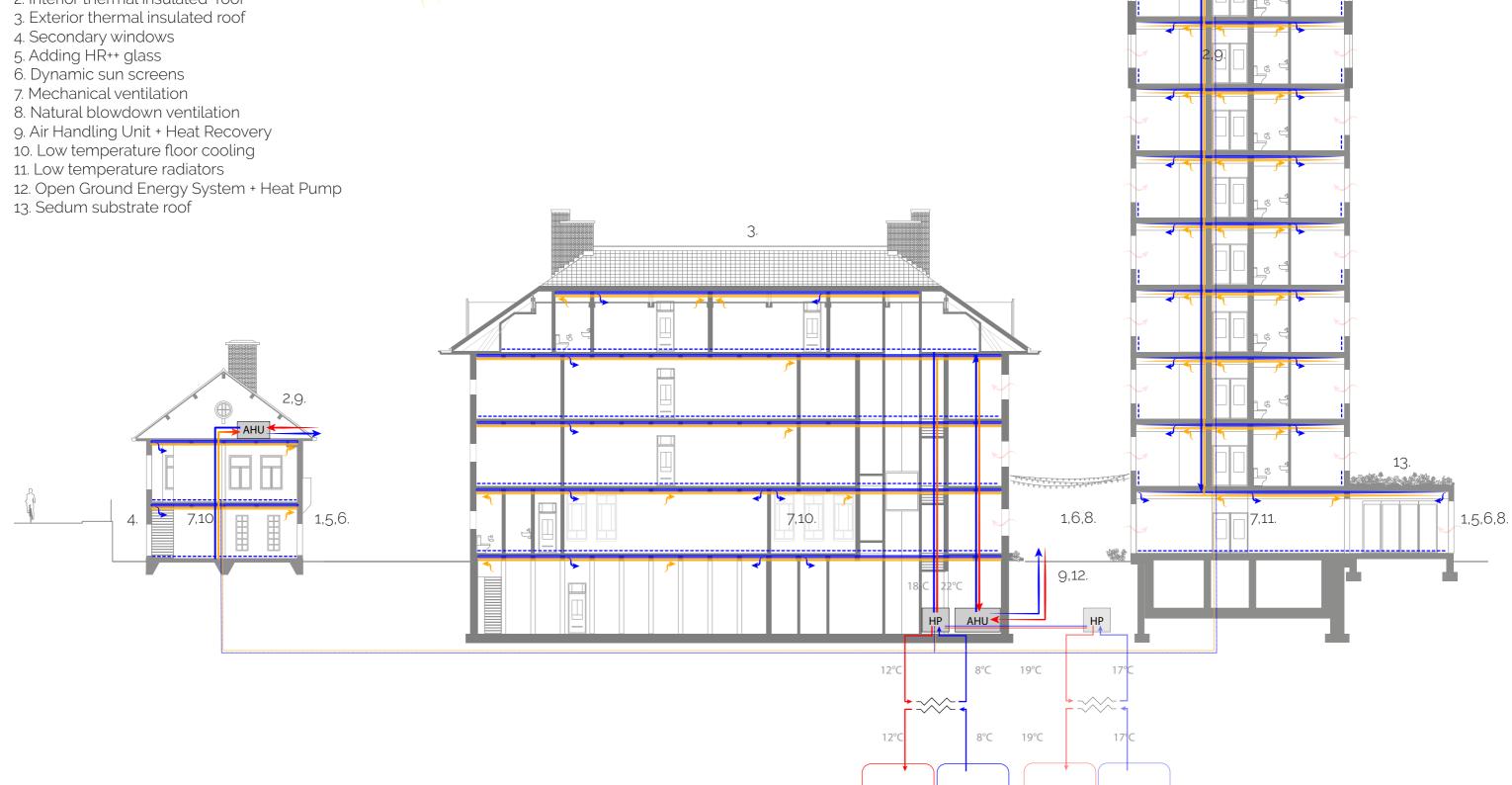


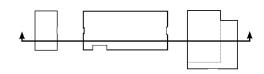
AHU

NORTH - SOUTH

Summer situation

- 1. Interior thermal insulated facade
- 2. Interior thermal insulated roof

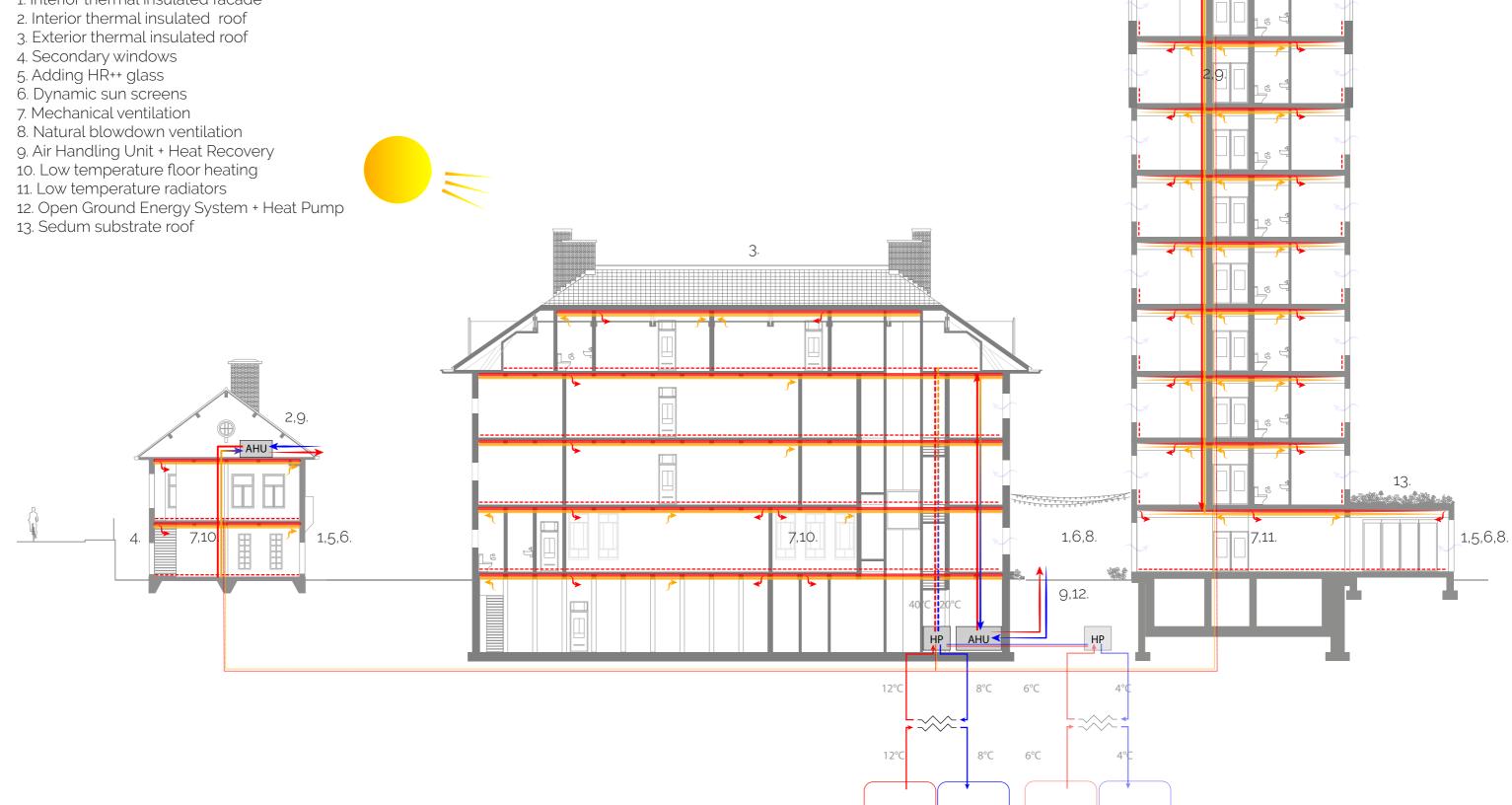


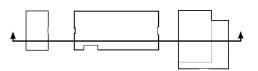


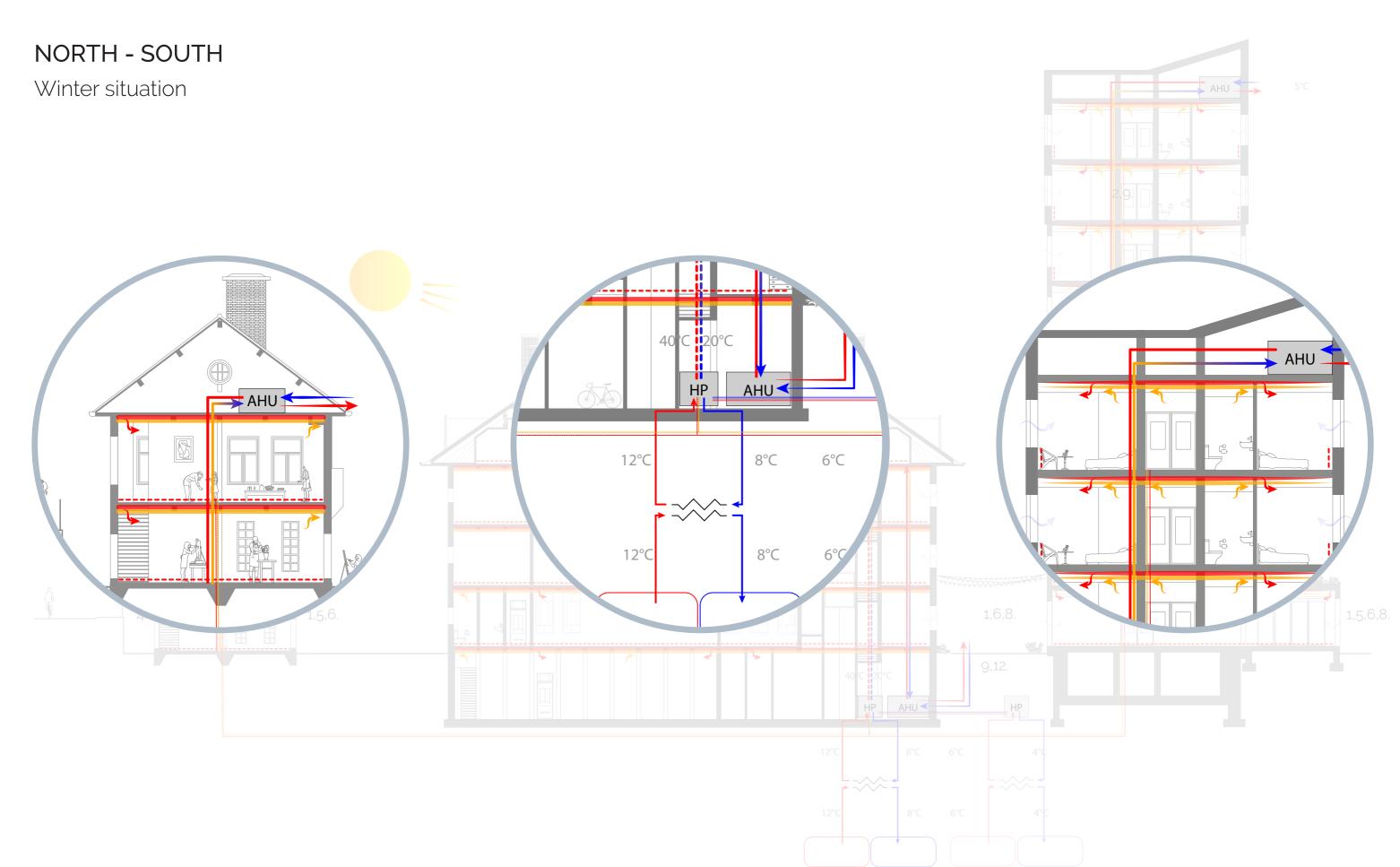
NORTH - SOUTH

Winter situation

1. Interior thermal insulated facade



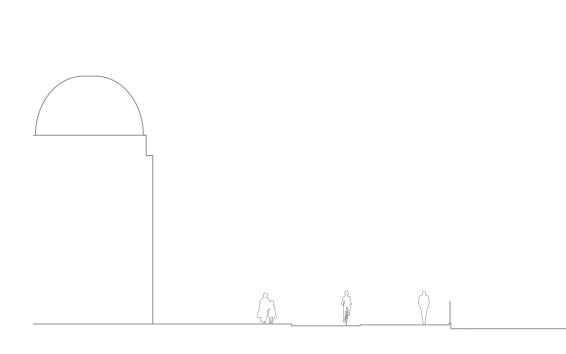


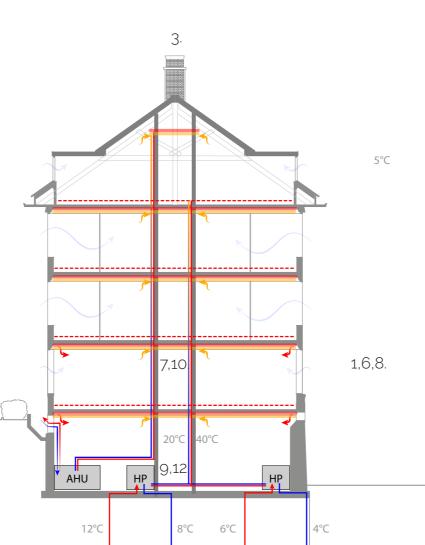


WEST - EAST

Winter situation

- 1. Interior thermal insulated facade
- 2. Interior thermal insulated roof
- 3. Exterior thermal insulated roof
- 4. Secondary windows
- 5. Adding HR++ glass
- 6. Dynamic sun screens
- 7. Mechanical ventilation
- 8. Natural blowdown ventilation
- 9. Air Handling Unit + Heat Recovery
- 10. Low temperature floor heating
- 11. Low temperature radiators
- 12. Open Ground Energy System + Heat Pump
- 13. Sedum substrate roof



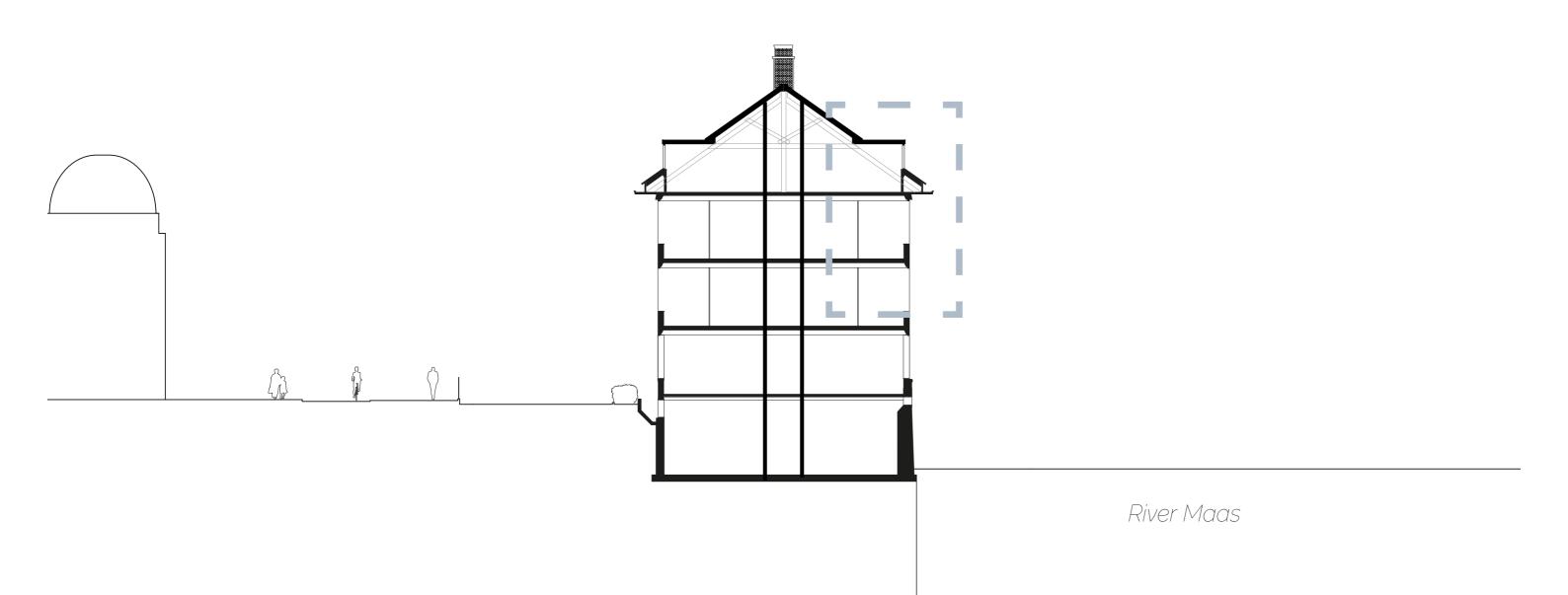


8°C

12°C

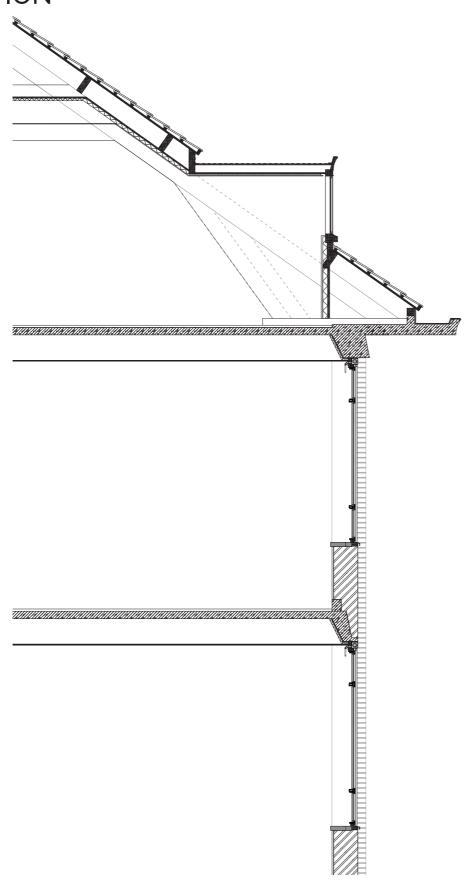
River Maas

WEST - EAST



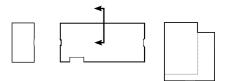
SECTION & ELEVATION

CURRENT SITUATION

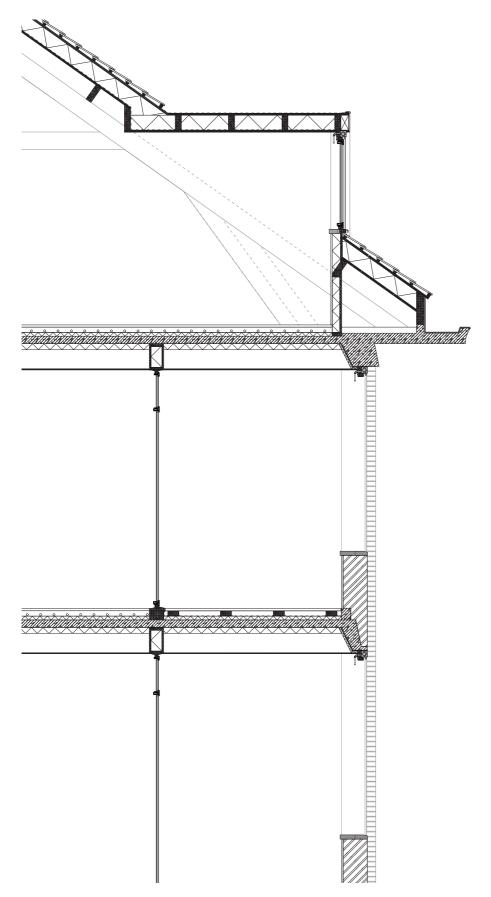


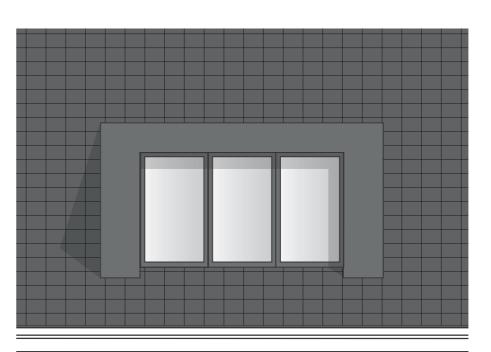


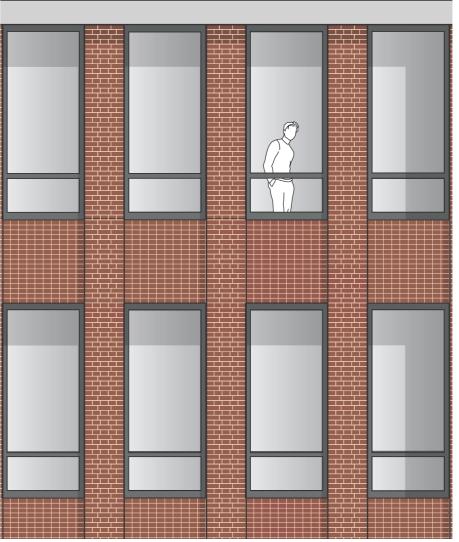
SECTION & ELEVATION



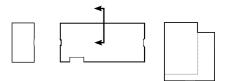
NEW SITUATION



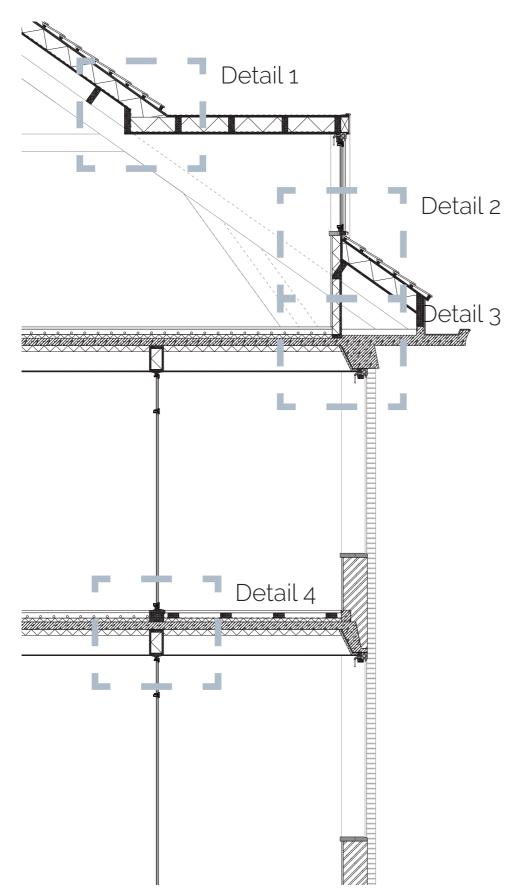


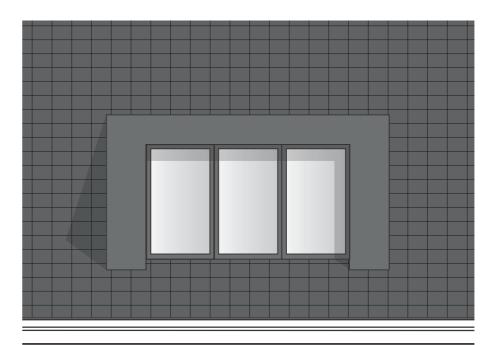


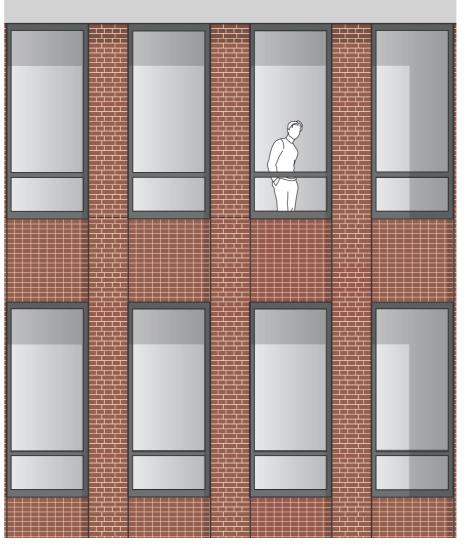
SECTION & ELEVATION

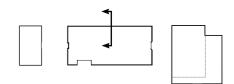


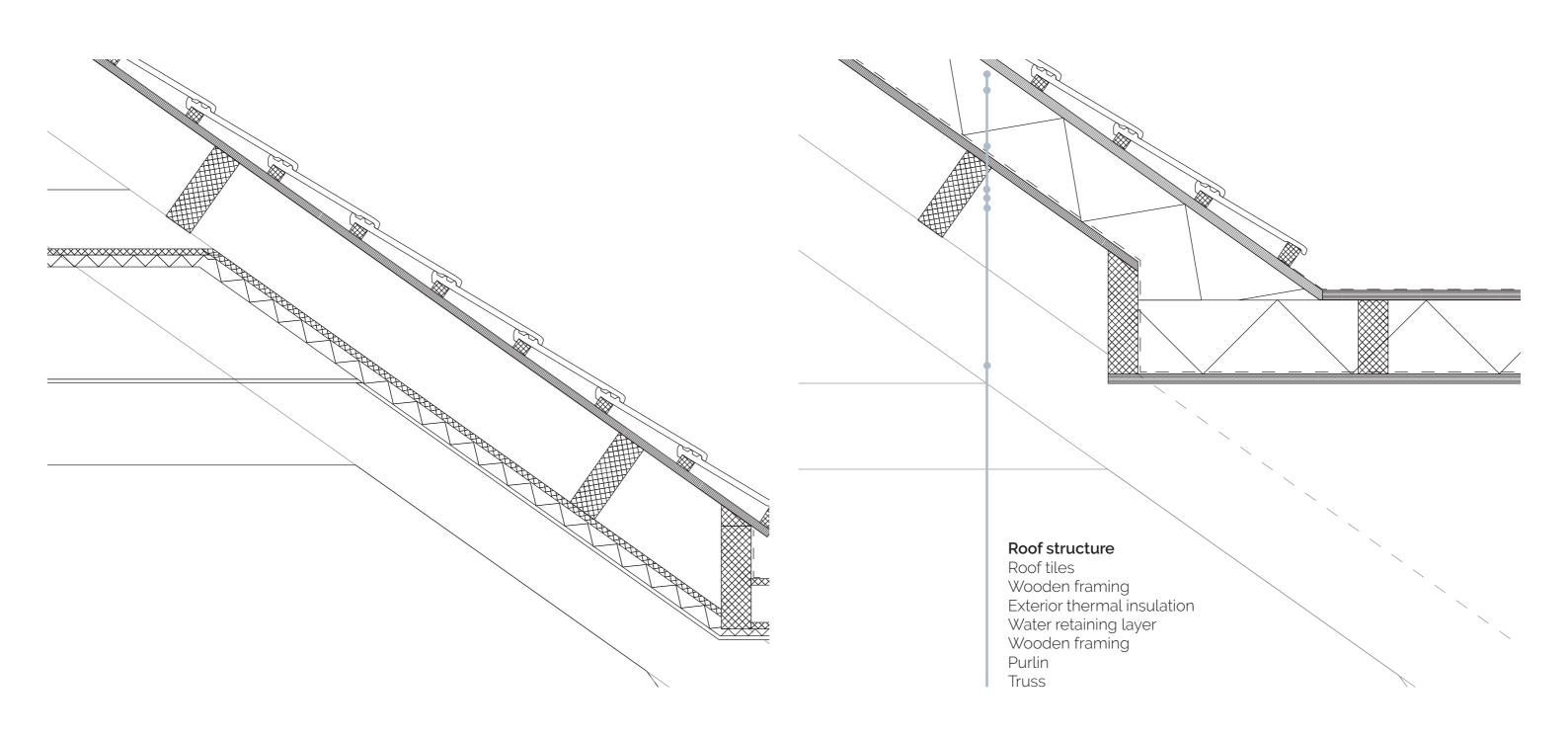
NEW SITUATION

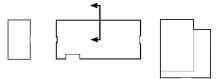


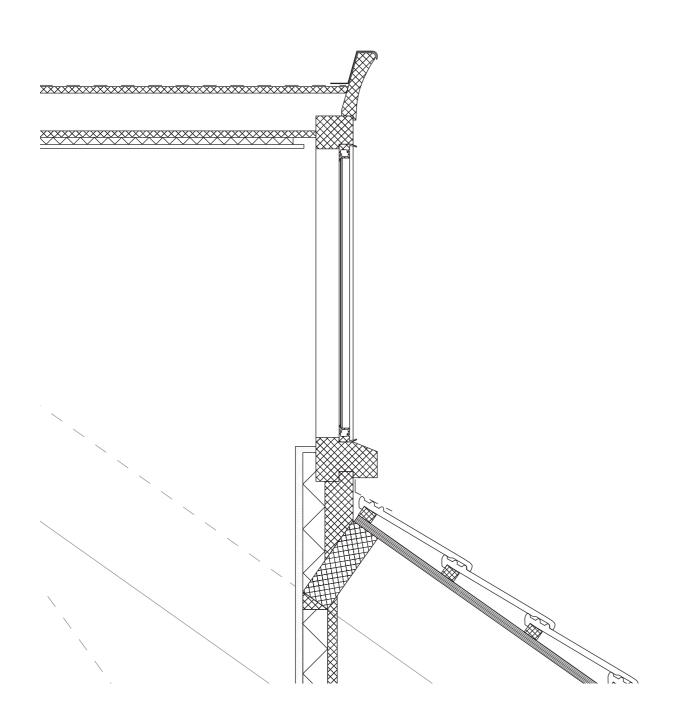


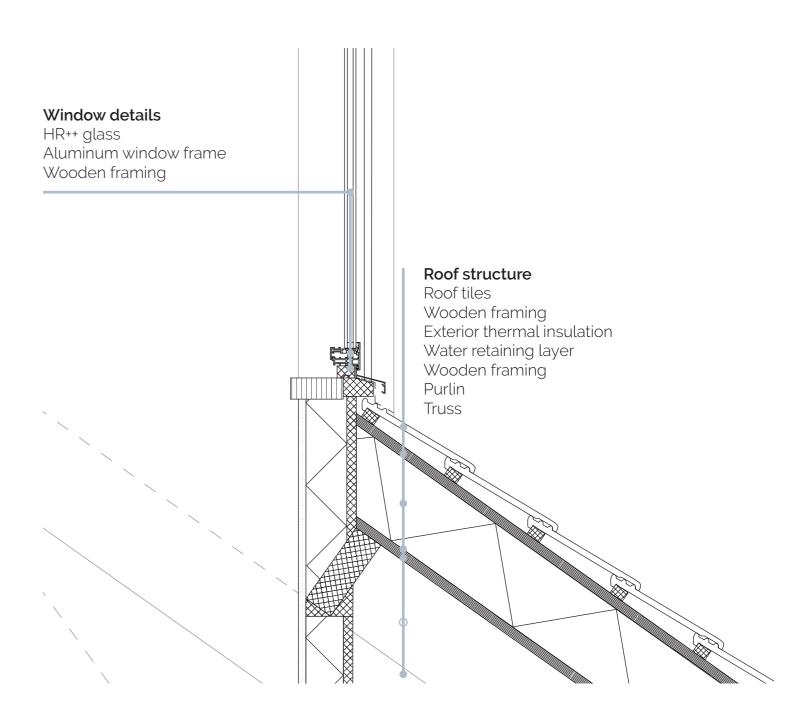


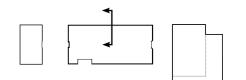


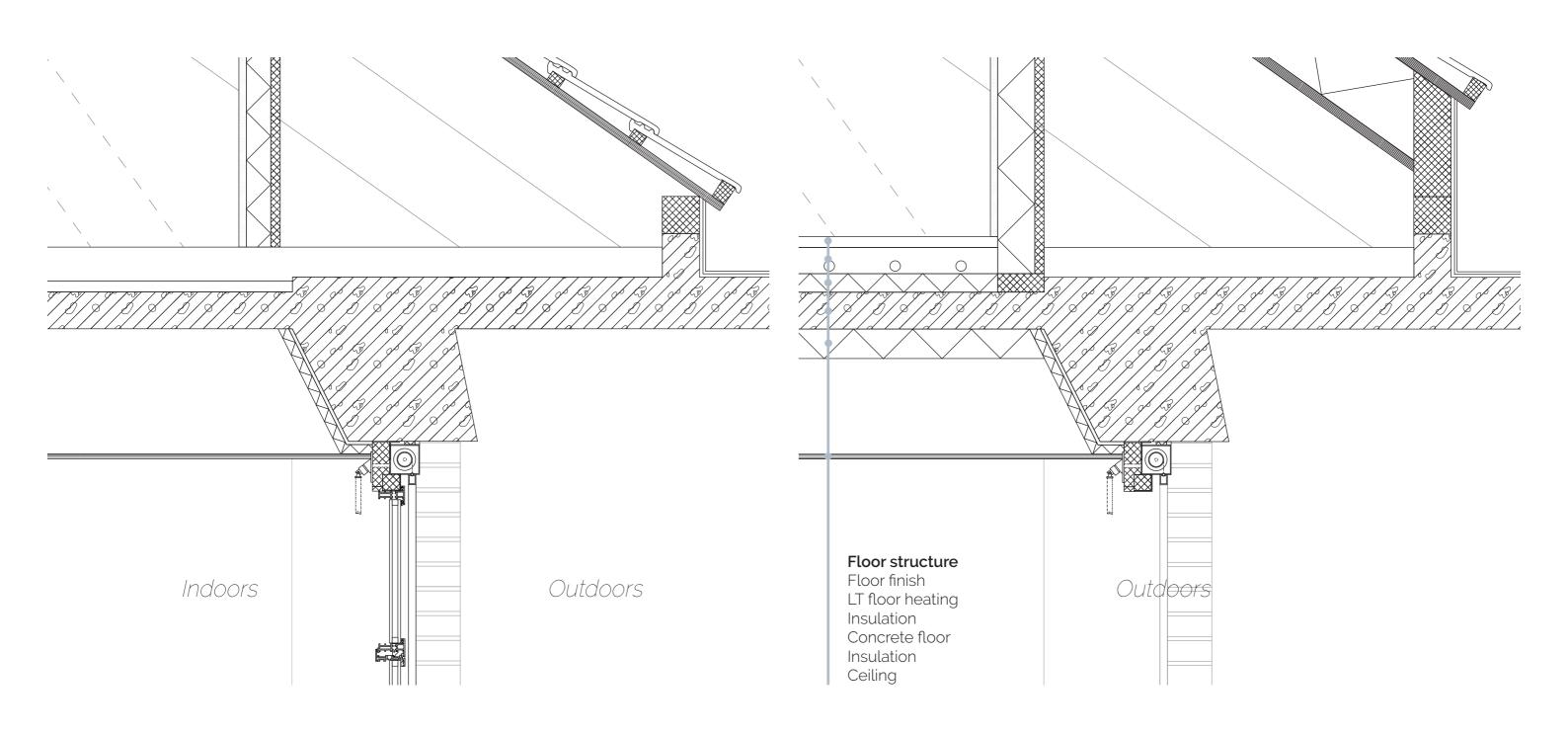


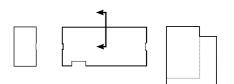


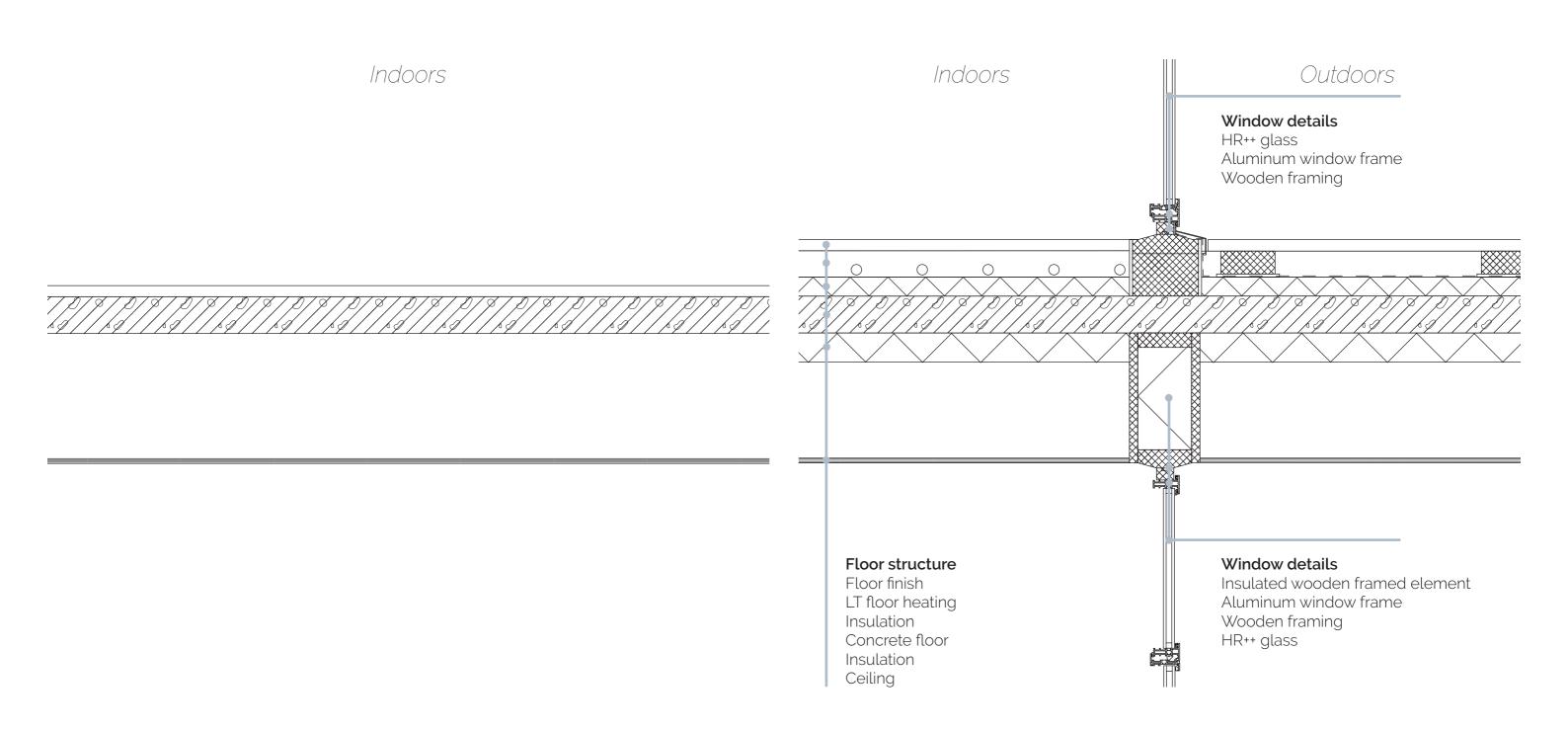








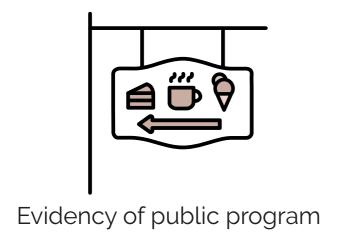




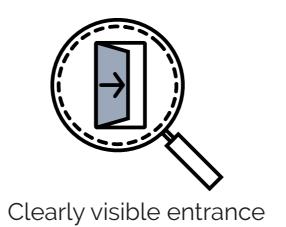
MAIN QUESTION

What is the influence of the **materiality** on **people's perception** of the **in-between spaces** of the Rotterdam Harbour Police Station and how can this be used as input for the redesign?

INVITING PLINTHS









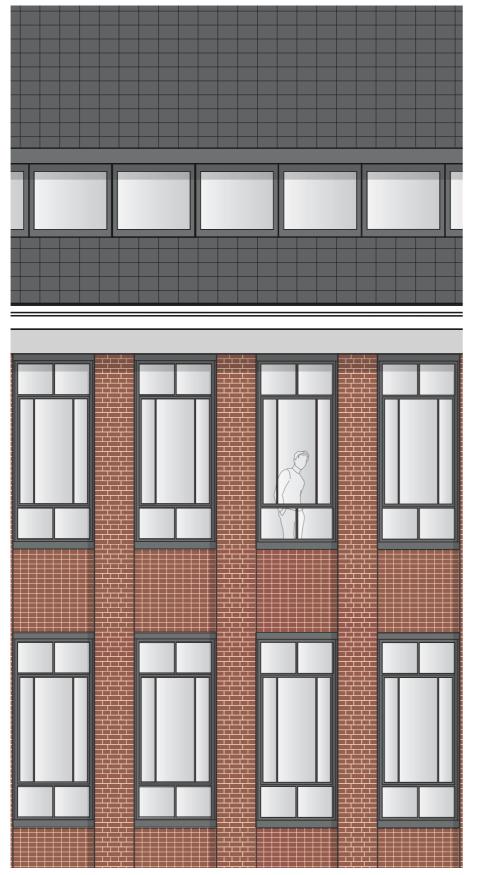


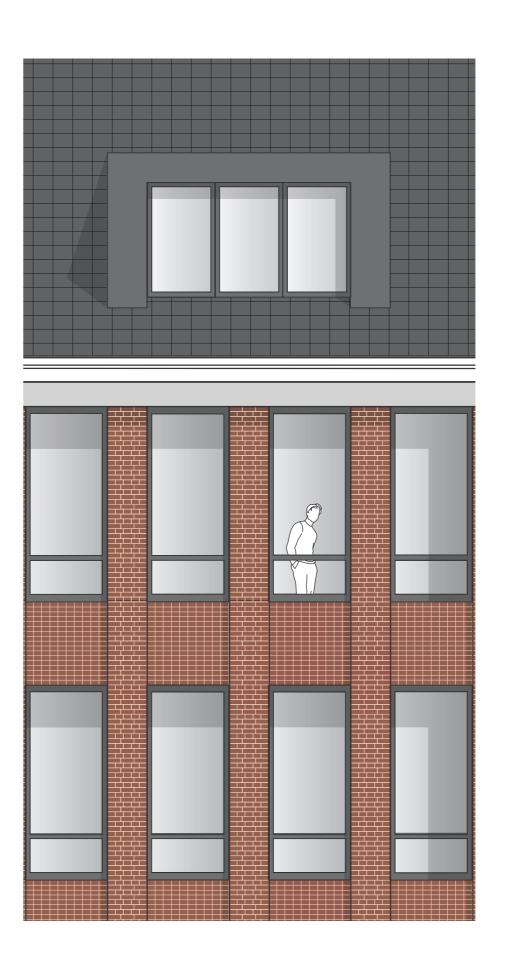


INVITING PLINTHS



STRENGTHENED INDOOR-OUTDOOR RELATION





REVITALISING THE PLINTH

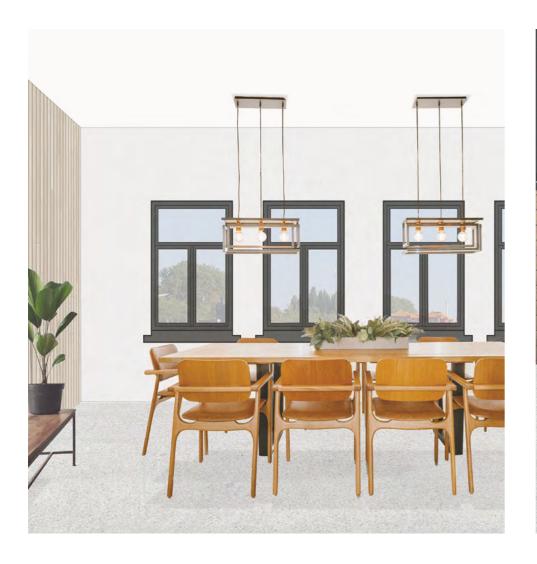
THANK YOU



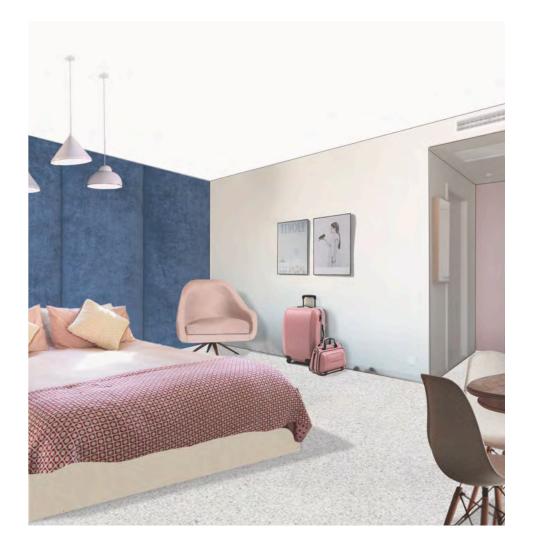
ADDITIONAL SLIDES

INTERIOR

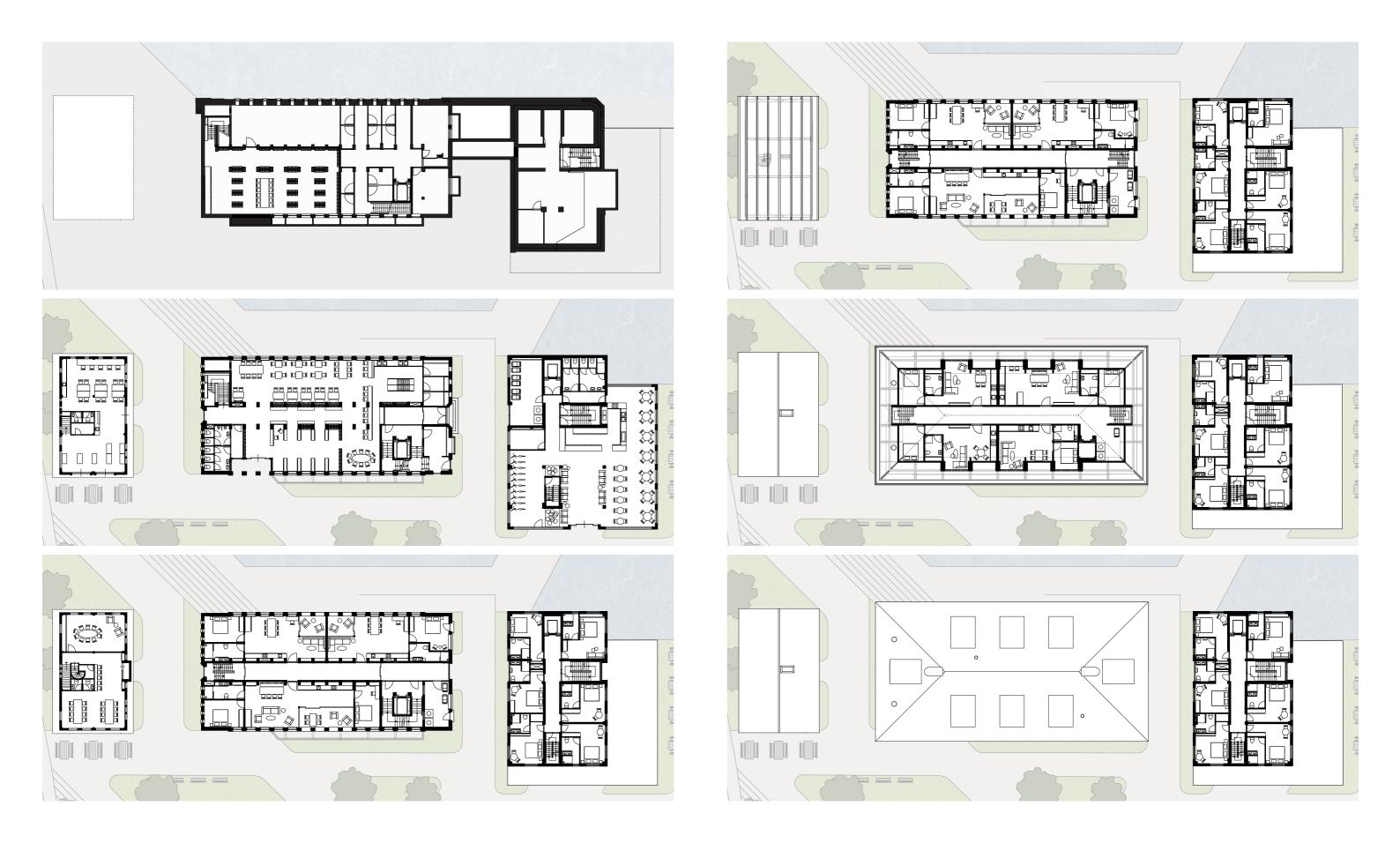
IMPRESSIONS



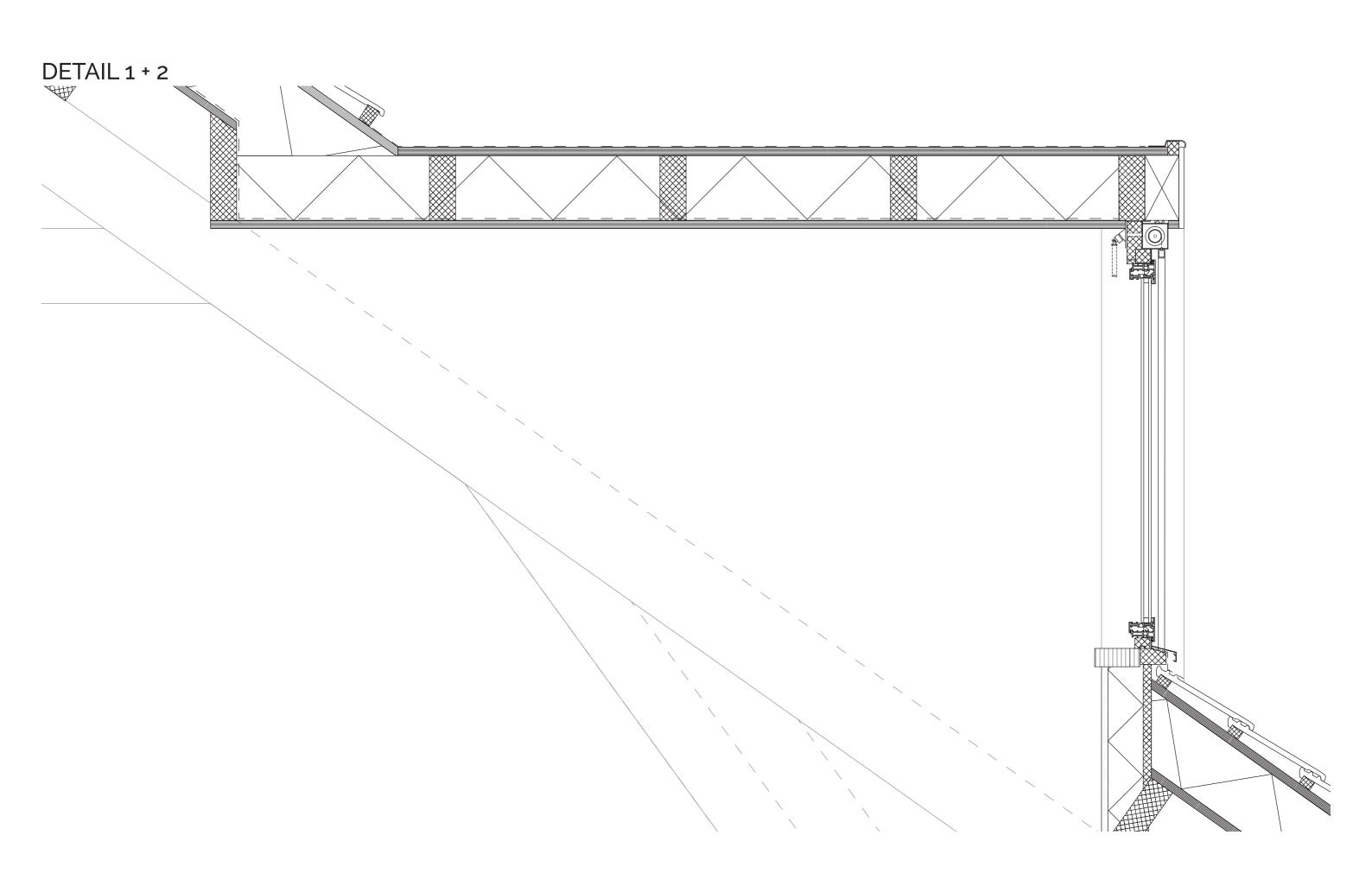




FLOOR PLANS

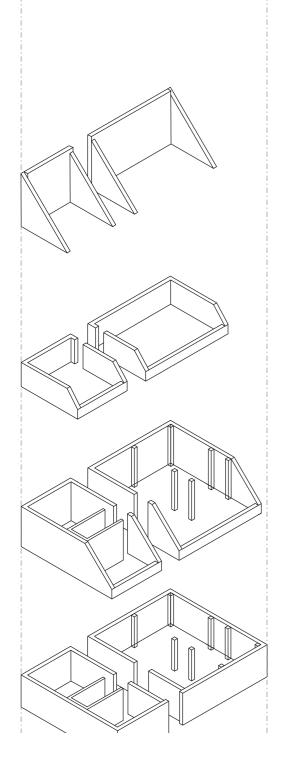


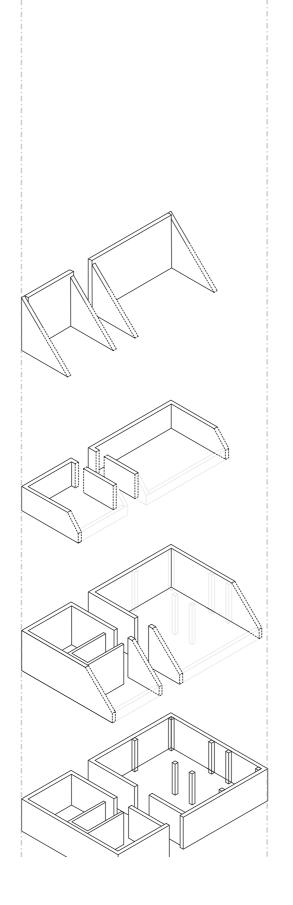
SECTION & DETAILING

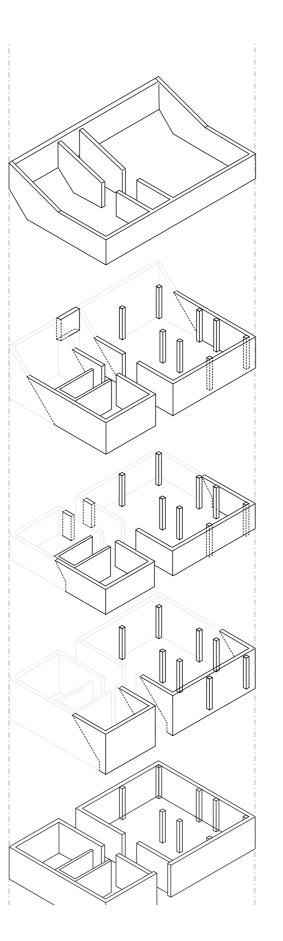


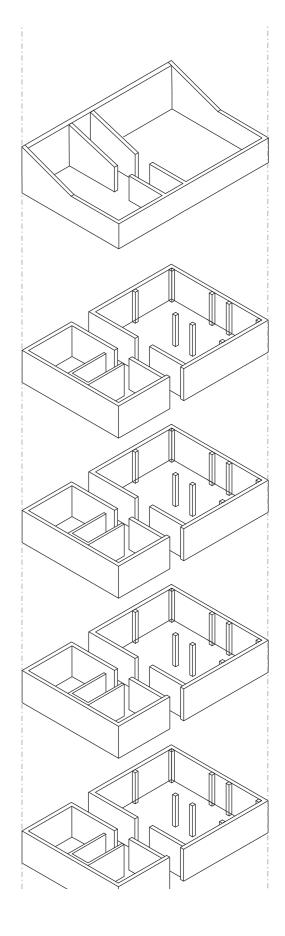
1994 TOP EXTENSION

- 1. Current situation
- 2. Removal of elements
- 3. Added construction
- 4. New situation









URBAN MASTERPLAN REFERENCES

ENTRANCE AREA SCHIEMOND

