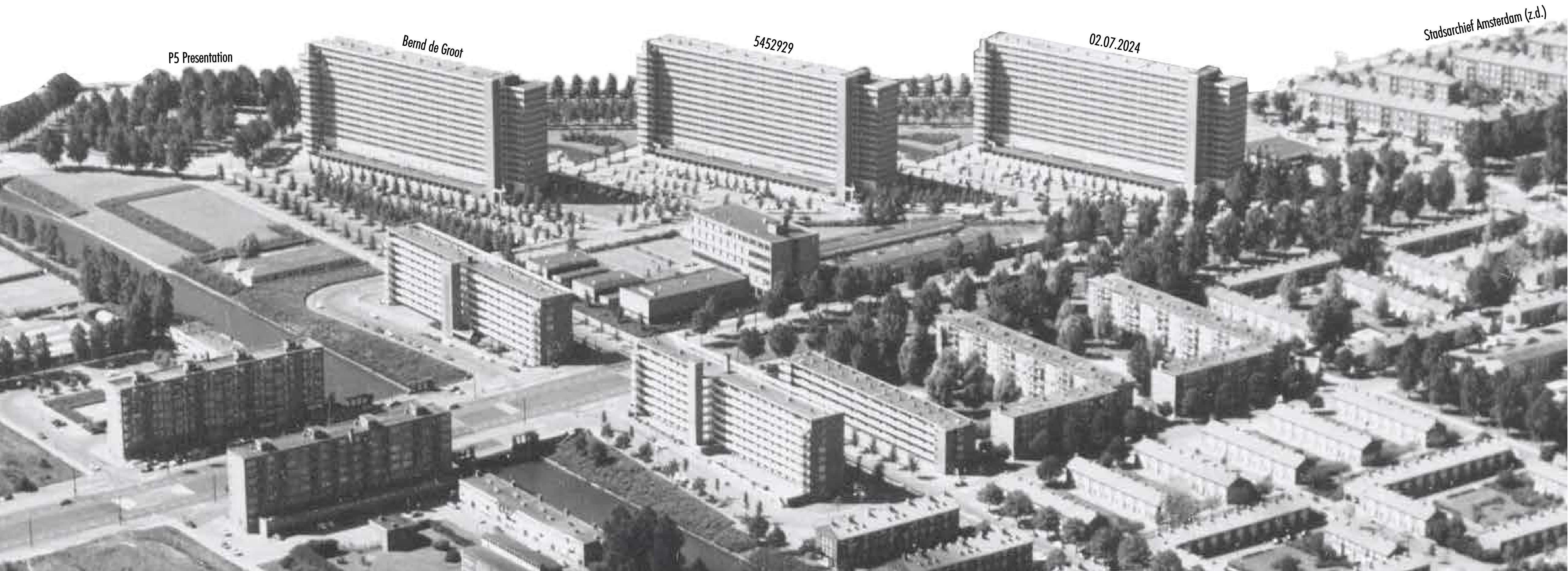


Towards Adaptable Post-War Housing

Architecture that uses change for greater significance.



P5 Presentation

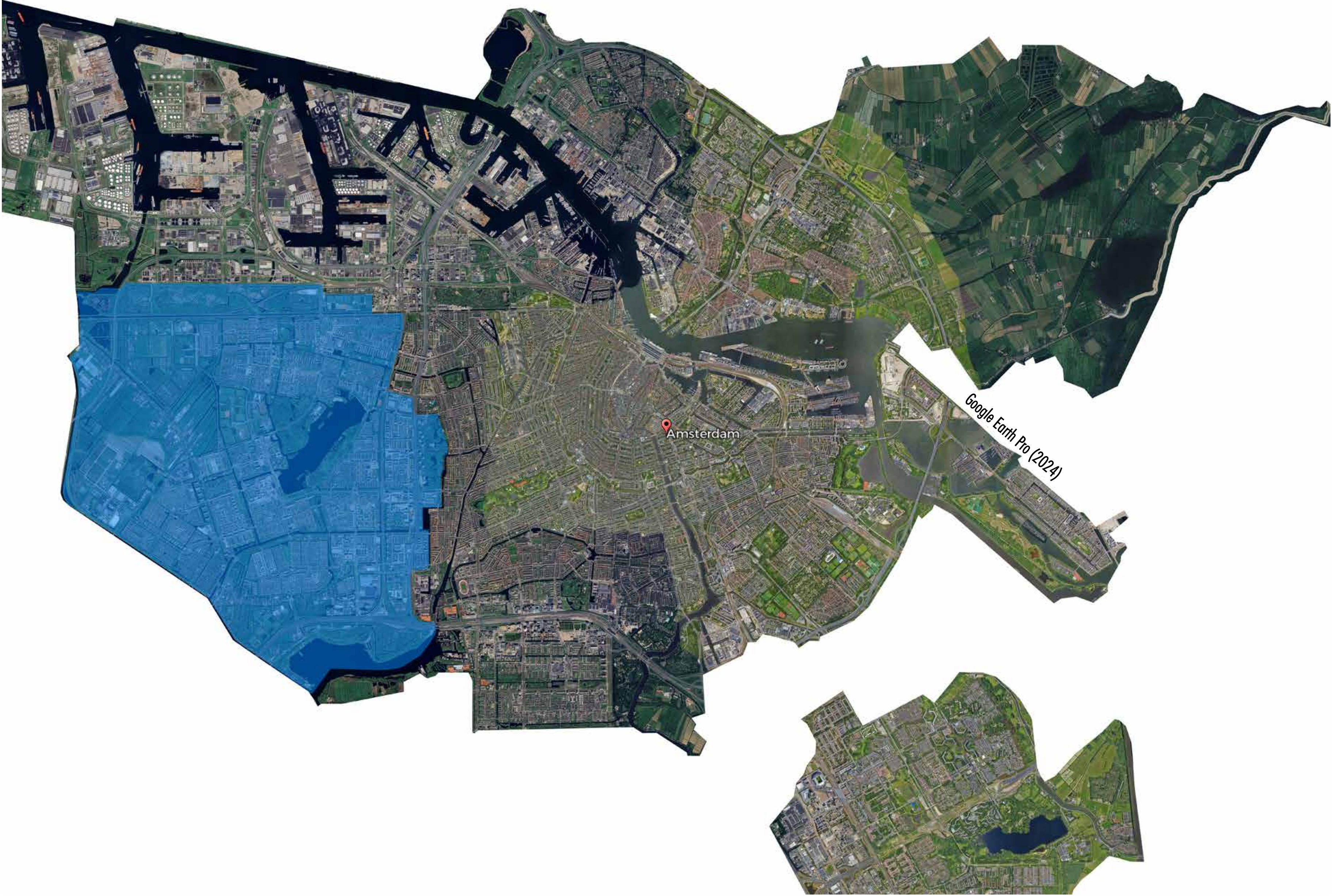
Bernd de Groot

5452929

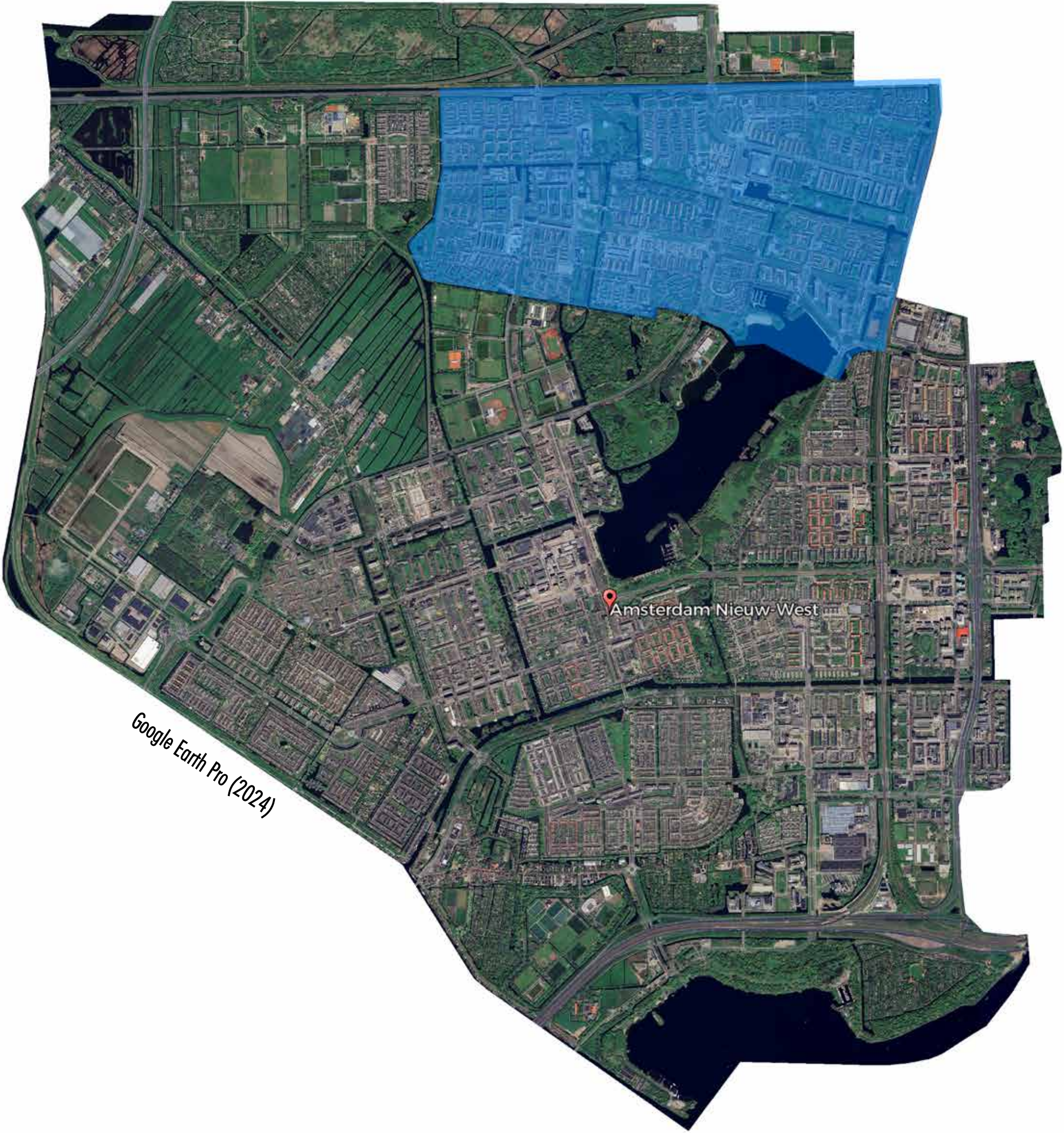
02.07.2024

Stadsarchief Amsterdam (z.d.)

City of Amsterdam



Western Garden Cities

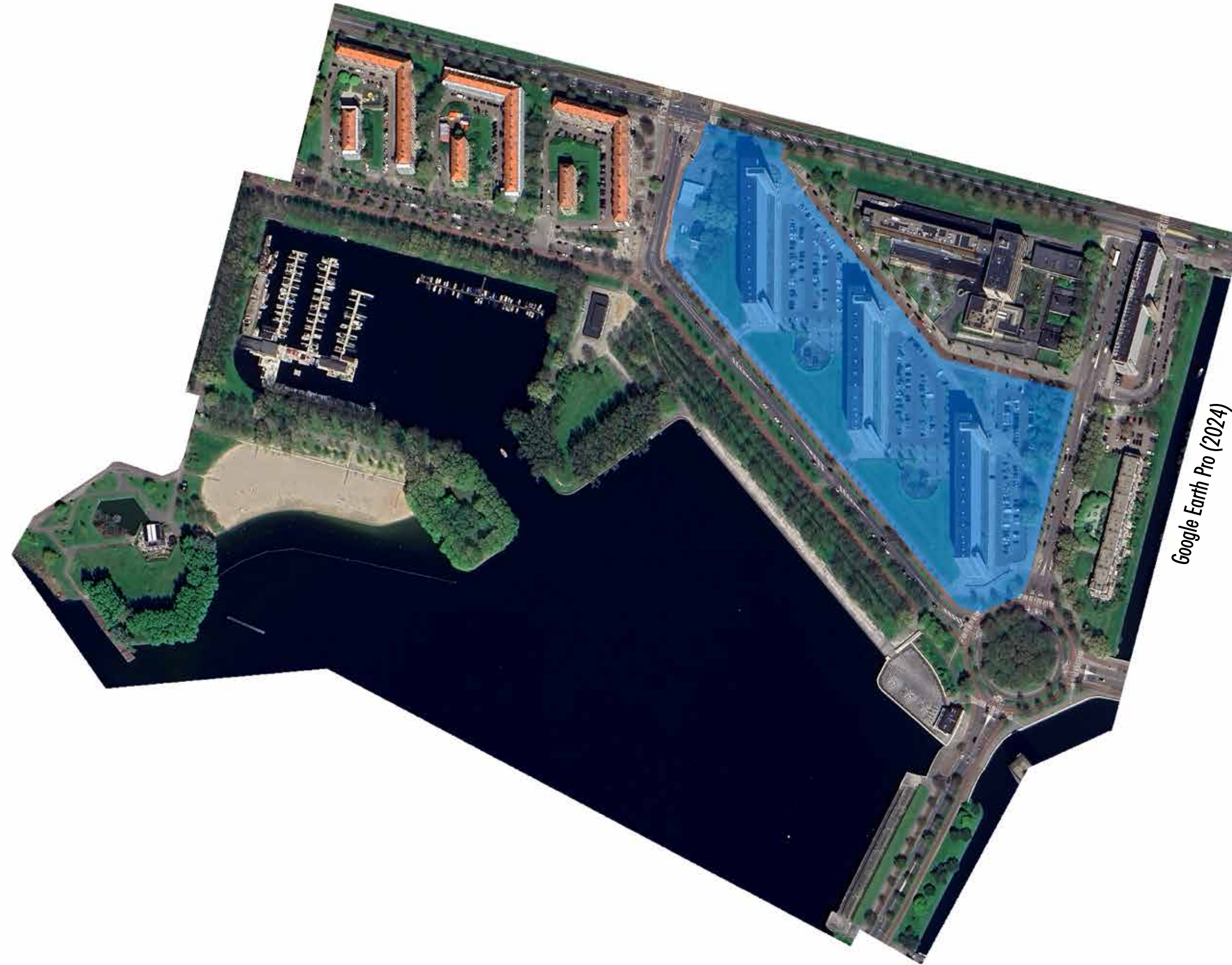


Google Earth Pro (2024)

Geuzenveld-Slotermeer

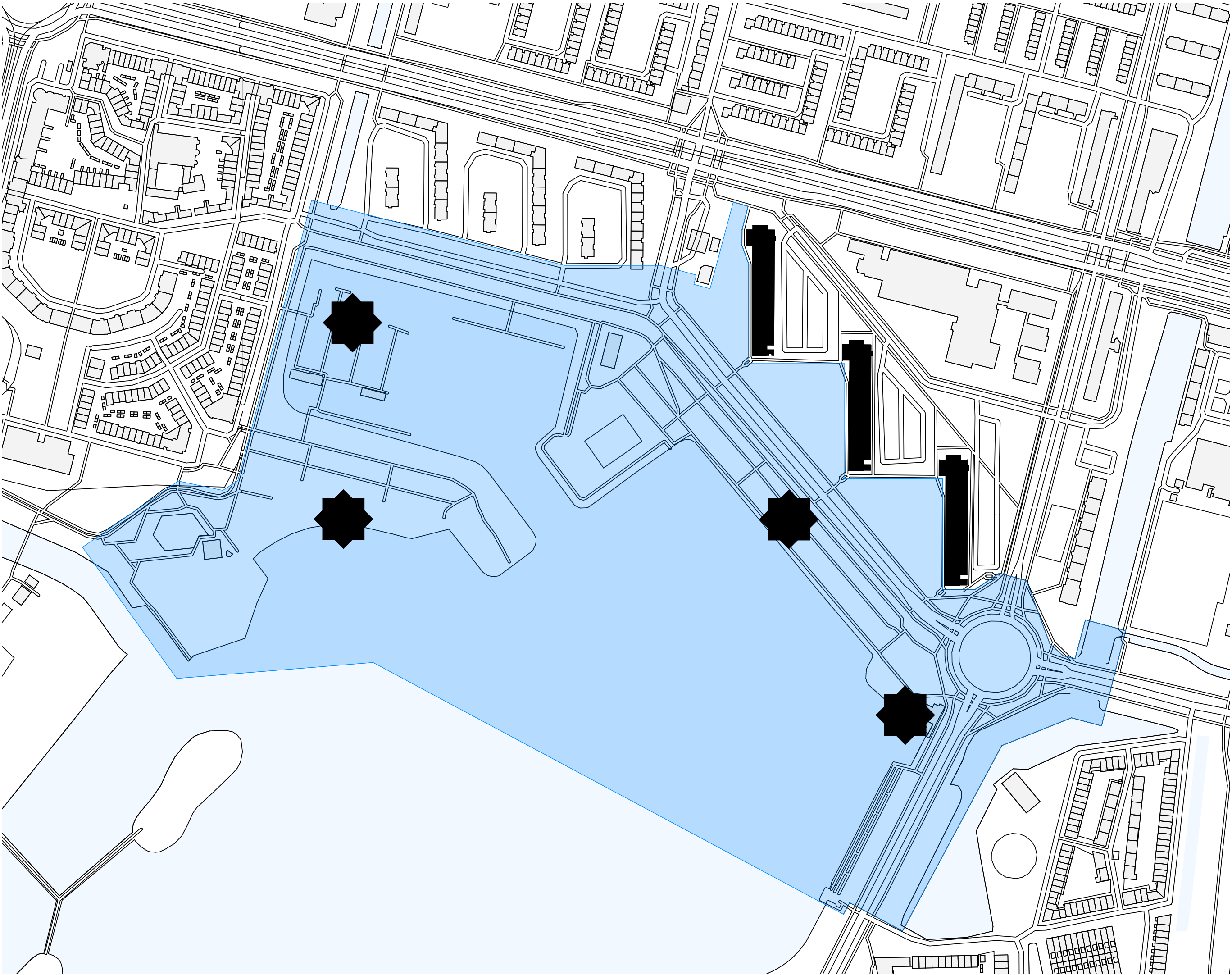


Northbank of Sloterplas



Google Earth Pro (2024)

Protected Cityscape



Marina



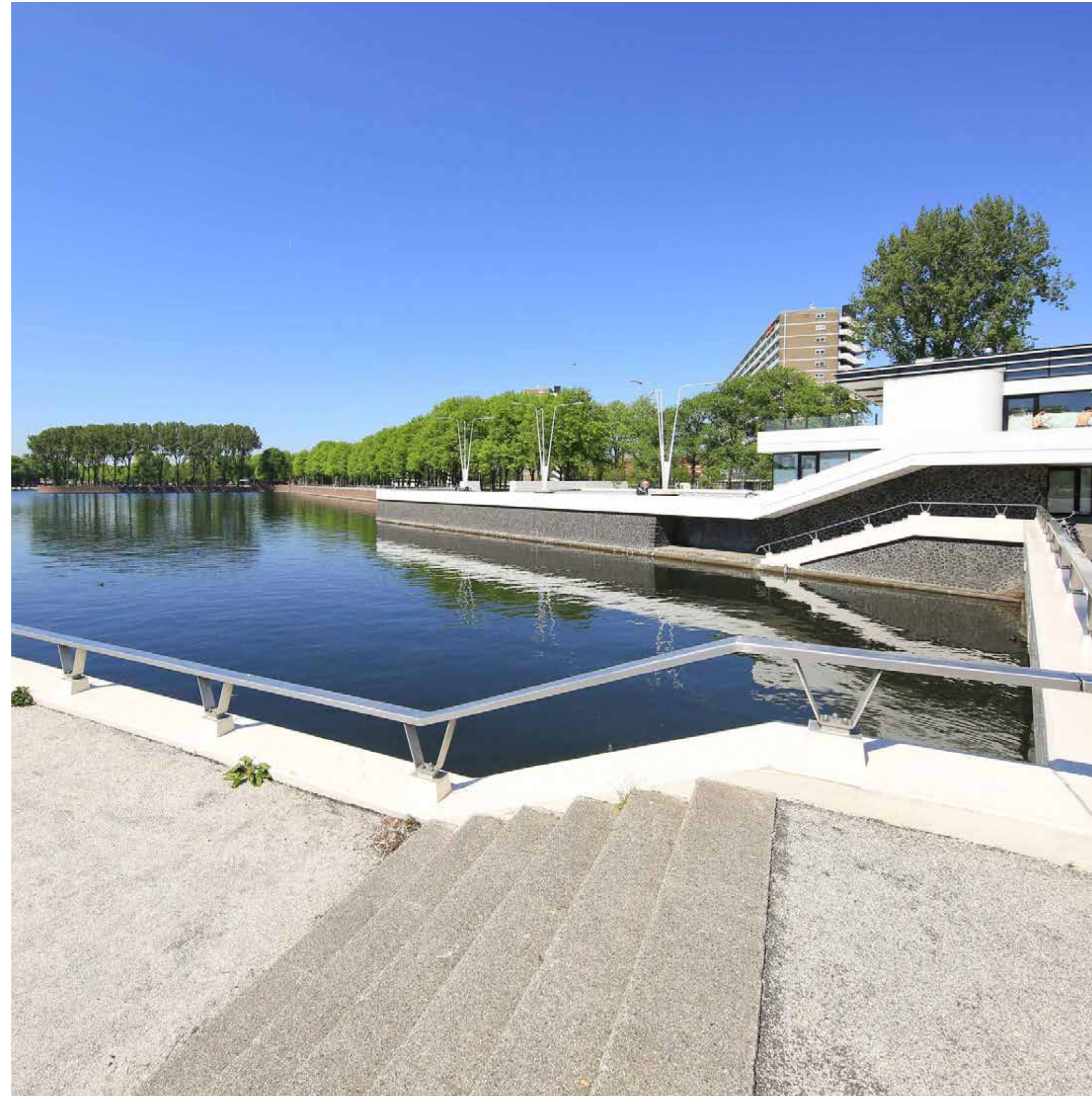
Funda (2024)

Embankment



Funda (2024)

Pavilion



Funda (2024)

Beach



Funda (2024)

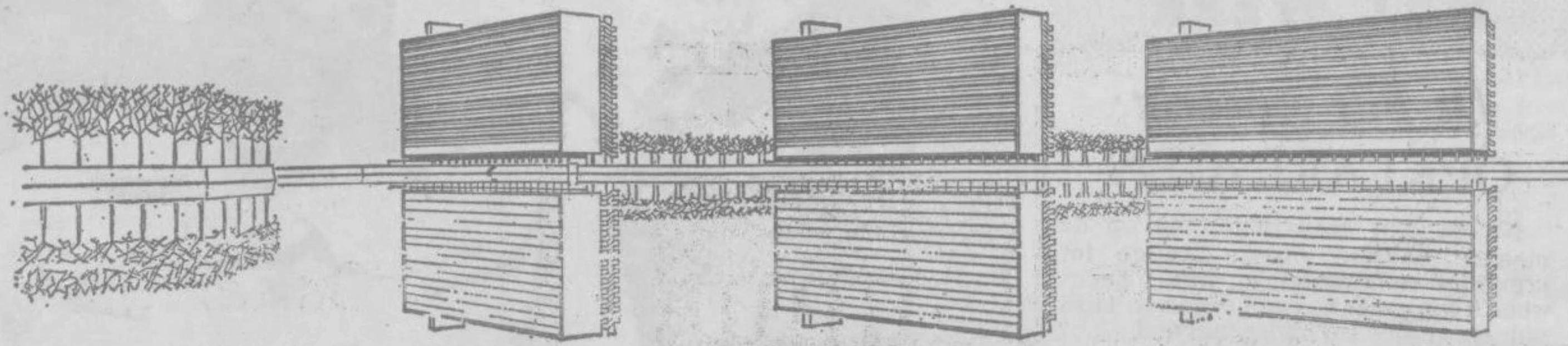
Green Structures



Funda (2024)

3 Apartment Blocks by Slotterplas

DRIE HOGE FLATGEBOUWEN AAN SLOTERPLAS



gieser/Potgieser—Smit/De Kamp 6—3 6—1;
Veen/De Vette—Haak/Scholtz 6—1 6—0;
Vis/Jelsma—Van Velzen/Offenbach 6—3
6—3; Roos/Holtrop—Ketelaar/Schonewelle
6—0 6—1; De Kort/Esmeijer—Pais/Prins
6—1 8—6; Bedorf/Bedorf—Hoskam/Hos-
kam 6—3 6—1; De Jong/Dirks—Vaarkamp
/Visker 6—3 4—6 6—2; Brandes/Brandes—
Manheim/Manheim 6—4 6—1; Keunen/Van
Kuyk—Brouwer/Bödicker 1—6 6—1 8—6;
Groetveld/Brugman—Van Vlijmen/v. d.
Reis 6—1 6—3; Van Wijk/Van Wijk—San-
ders/Schwebke 4—6 6—0 6—4; v. d. Tooren
/Klokkemeier—Van Eeken/Tasma 6—2
6—2.

★ Vanmorgen heeft burgemeester mr. G. van Hall de eerste paal geslagen ★
★ voor het eerste van de drie grote flatgebouwen, die onder architectuur ★
★ van de heer Zanstra zullen worden gebouwd in Slotermeer aan de ★
★ noordelijke oever van de Slotterplas. ★

★ Aan de zuidelijke oever staan reeds de vijf 9 verdiepingen hoge flat- ★
★ gebouwen, (architect Van Gool), die voor vijf woningbouwverenigingen ★
★ zijn gebouwd en waarvan de vijfde bijna gereed is. ★

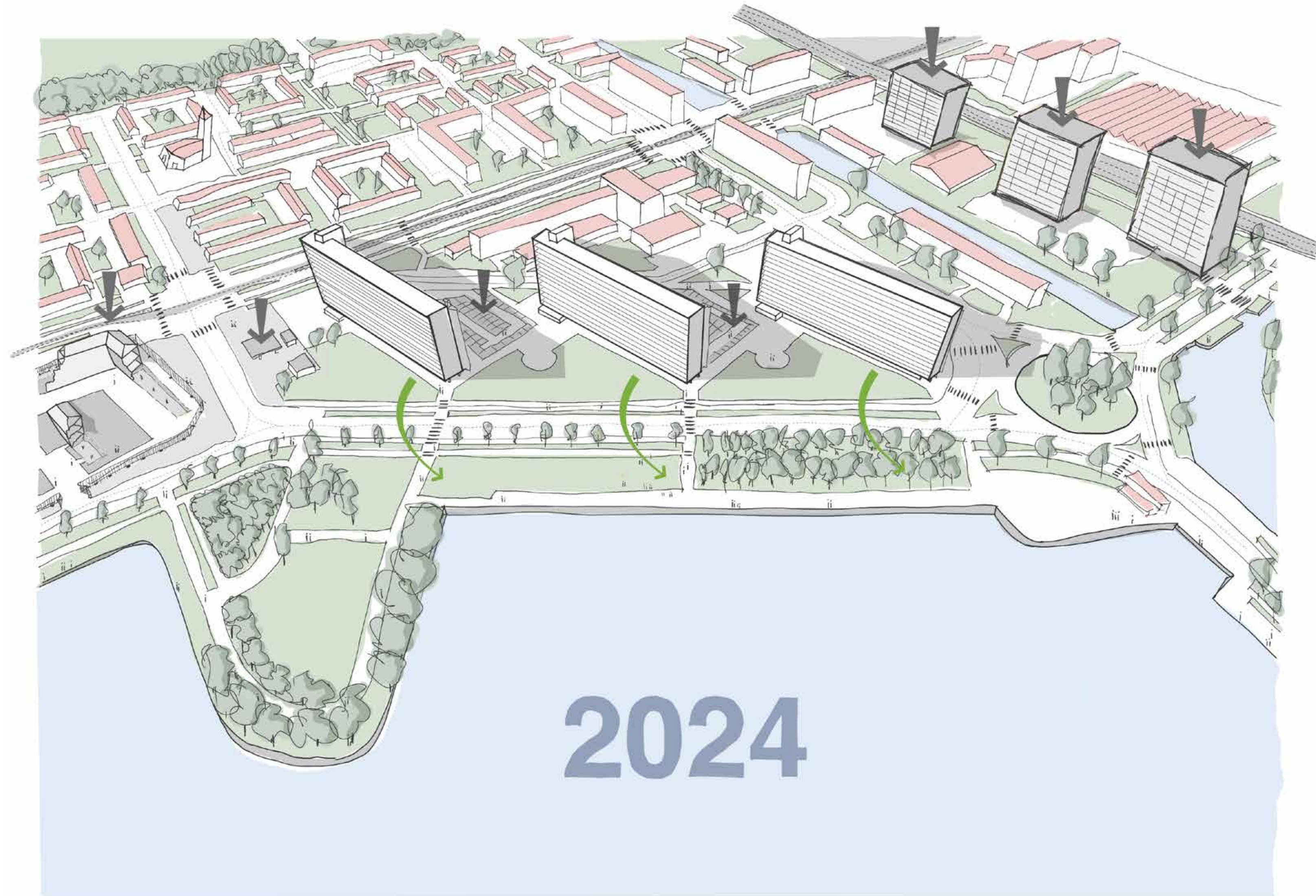
★ De drie flatgebouwen, die als afsluiting op de Noordoever worden ge- ★
★ bouwd zullen hogfer worden, nl. 14 verdiepingen met in totaal 507 flats. ★
★ Zij zullen tot de hoogste woonflatgebouwen in Nederland behoren. ★

3 Apartment Blocks by Sloterpas

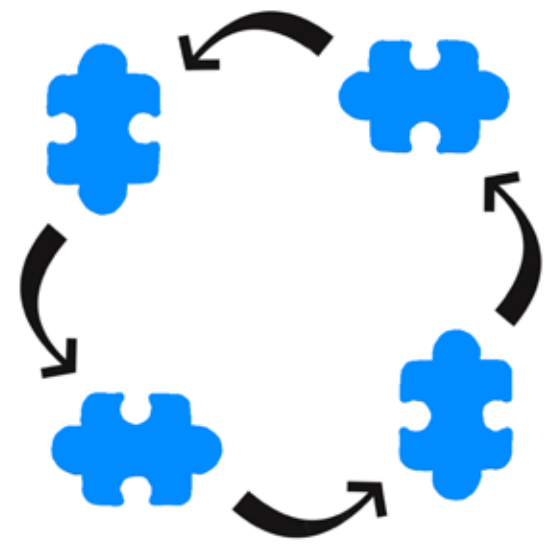


Funda (2024)

Existing Context



Adaptability

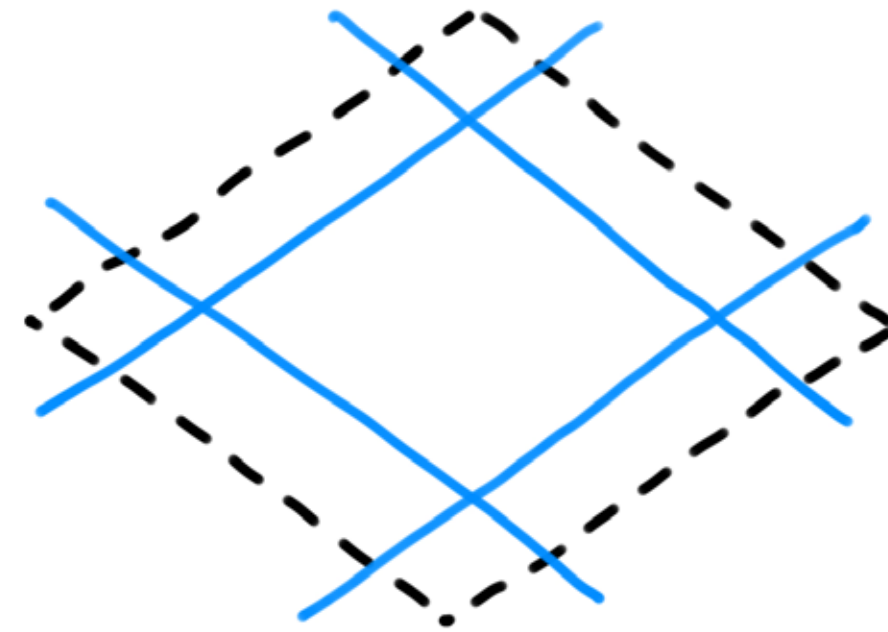


**Accommodating Evolving
Demands of Context**



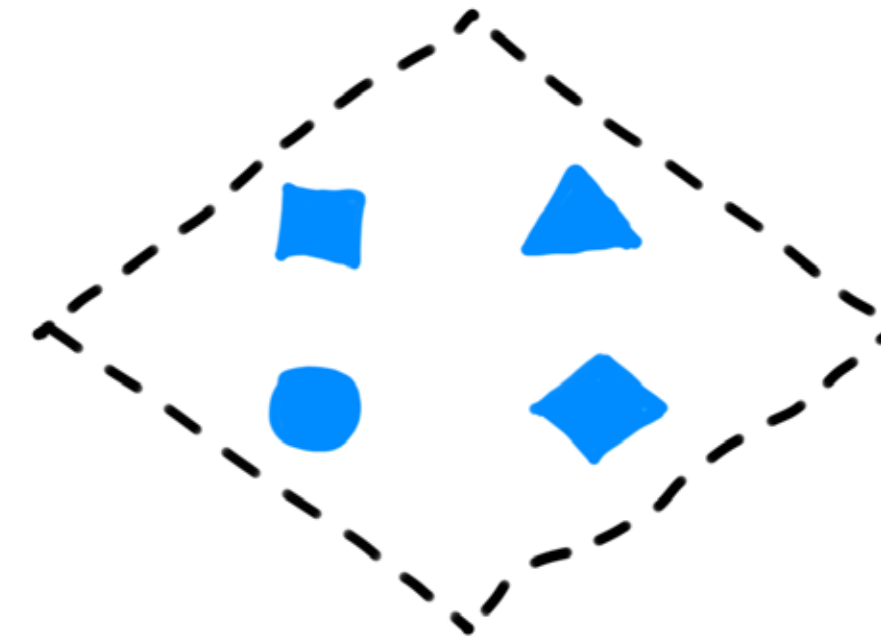
**Maximising Value
Through Life**

Guiding Theme



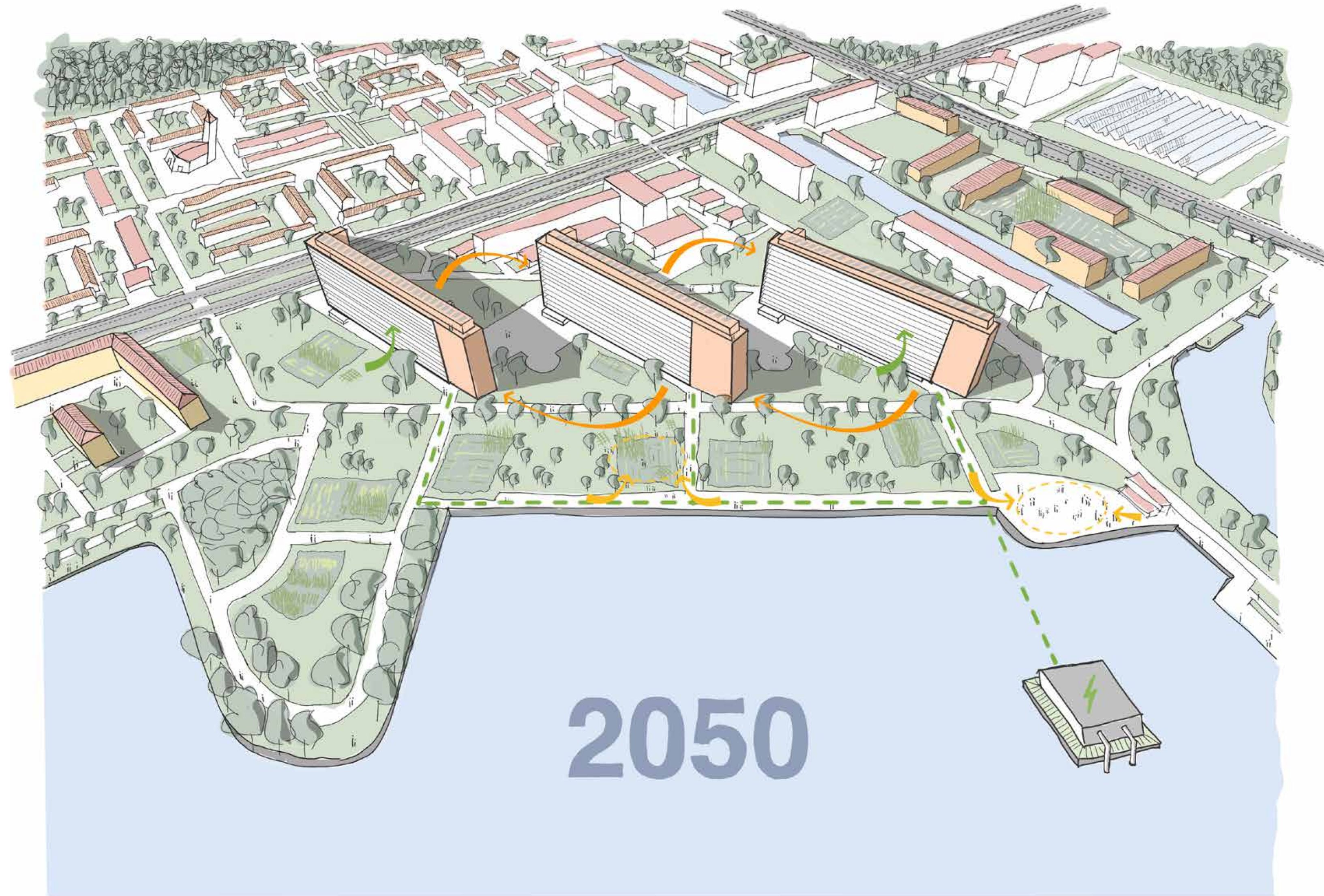
Continuity

+



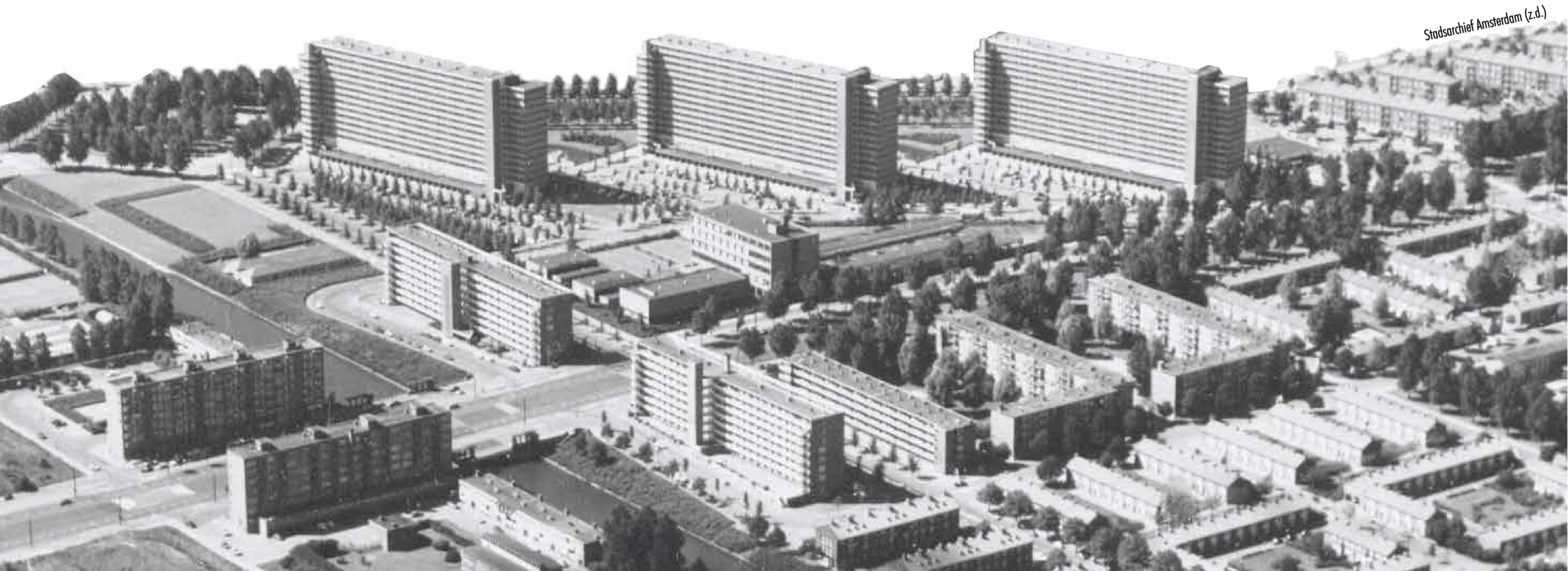
Change

Future Context



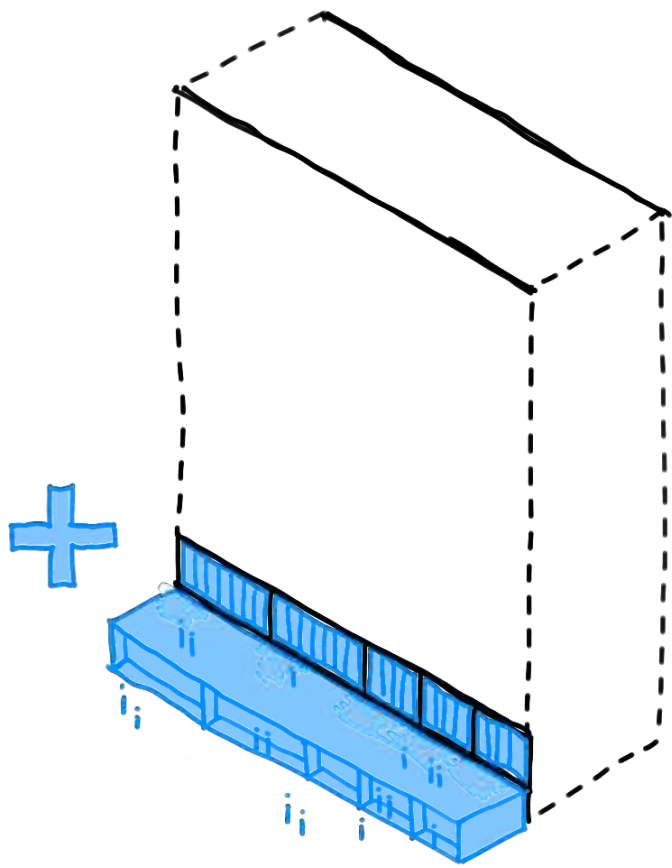
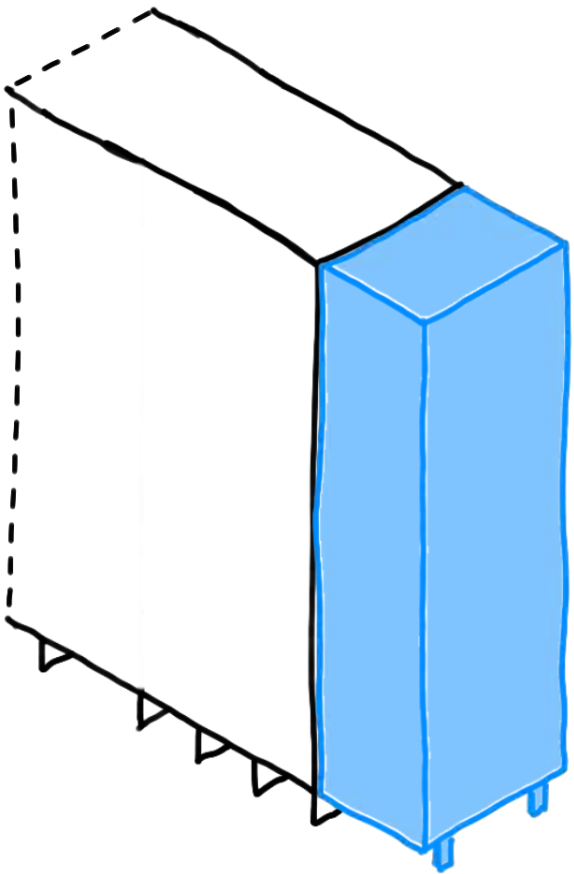
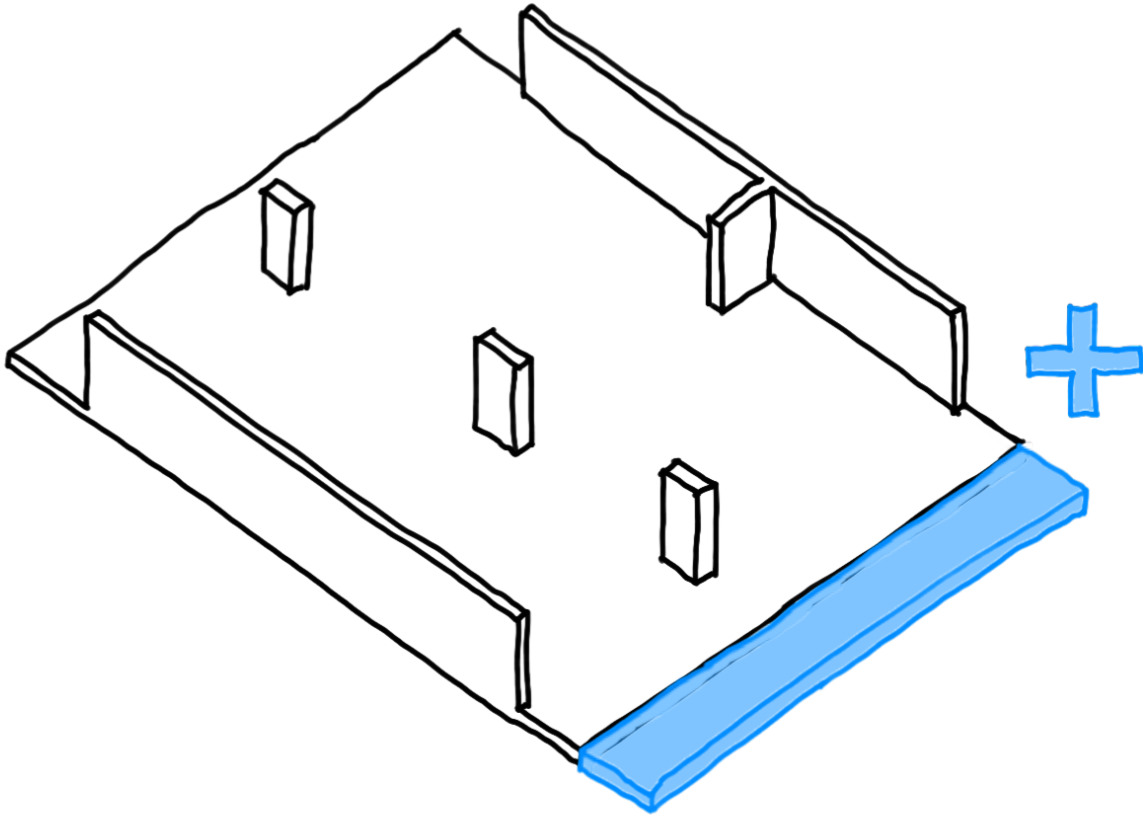
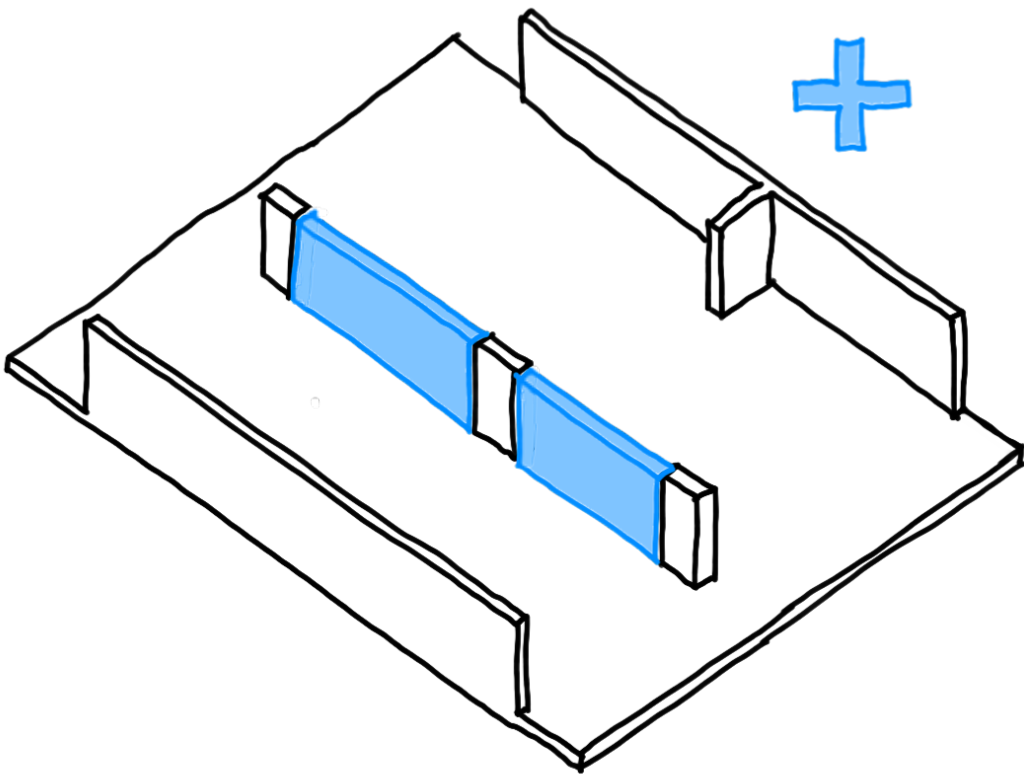
Towards Adaptable Post-War Housing

Architecture that uses change for greater significance.

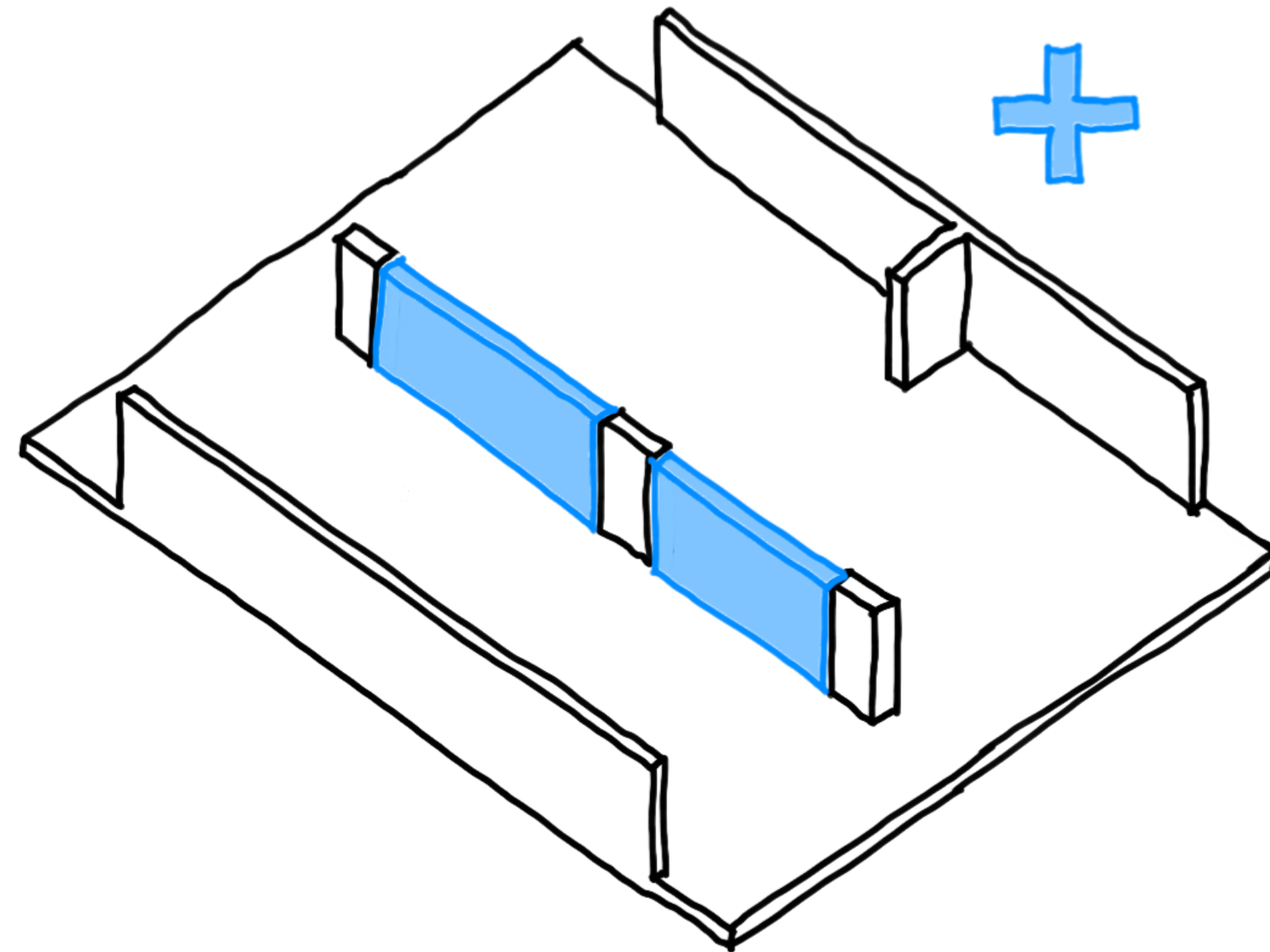


Stadsarchief Amsterdam (z.d.)

4 Strategies: Splitting, Extending Addition and Inviting



Strategy 1: Splitting



Dependency Structure Matrix (DSM)

	A	B	C	D	E	F	G
A							
B				X			X
C							
D		X					X
E							
F							
G		X		X			

X = Fixed Connection
\\ = Semi-Fixed Connection
O = Loose Connection

Relationship between D and G

X = Fixed Connection
(joint using chemical techniques)

\\ = Semi-Fixed Connection
(dry-jointed, but infiltrated into other systems or components)

O = Loose Connection
(dry-jointed, no infiltration into other systems or components)

	A	B	C	D	E	F	G
A							
B				X		\\	\\
C				X			
D		X	X				O
E						O	O
F		\\			O		
G		\\		O	O		

X = Fixed Connection
\\ = Semi-Fixed Connection
O = Loose Connection

Relationship between D and G

Dependency Structure Matrix (DSM)

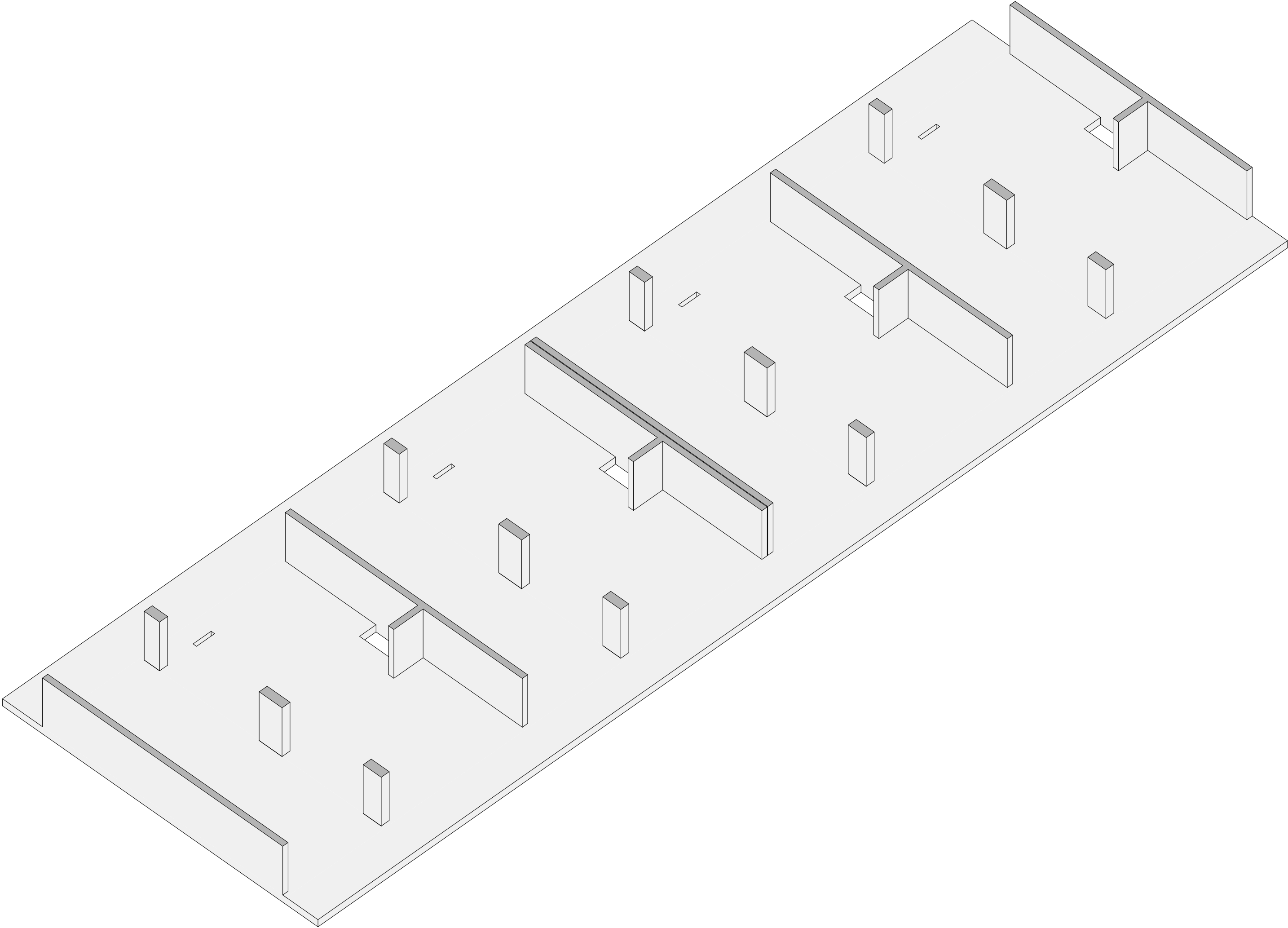
DSM

(Dependency Structure Matrix)

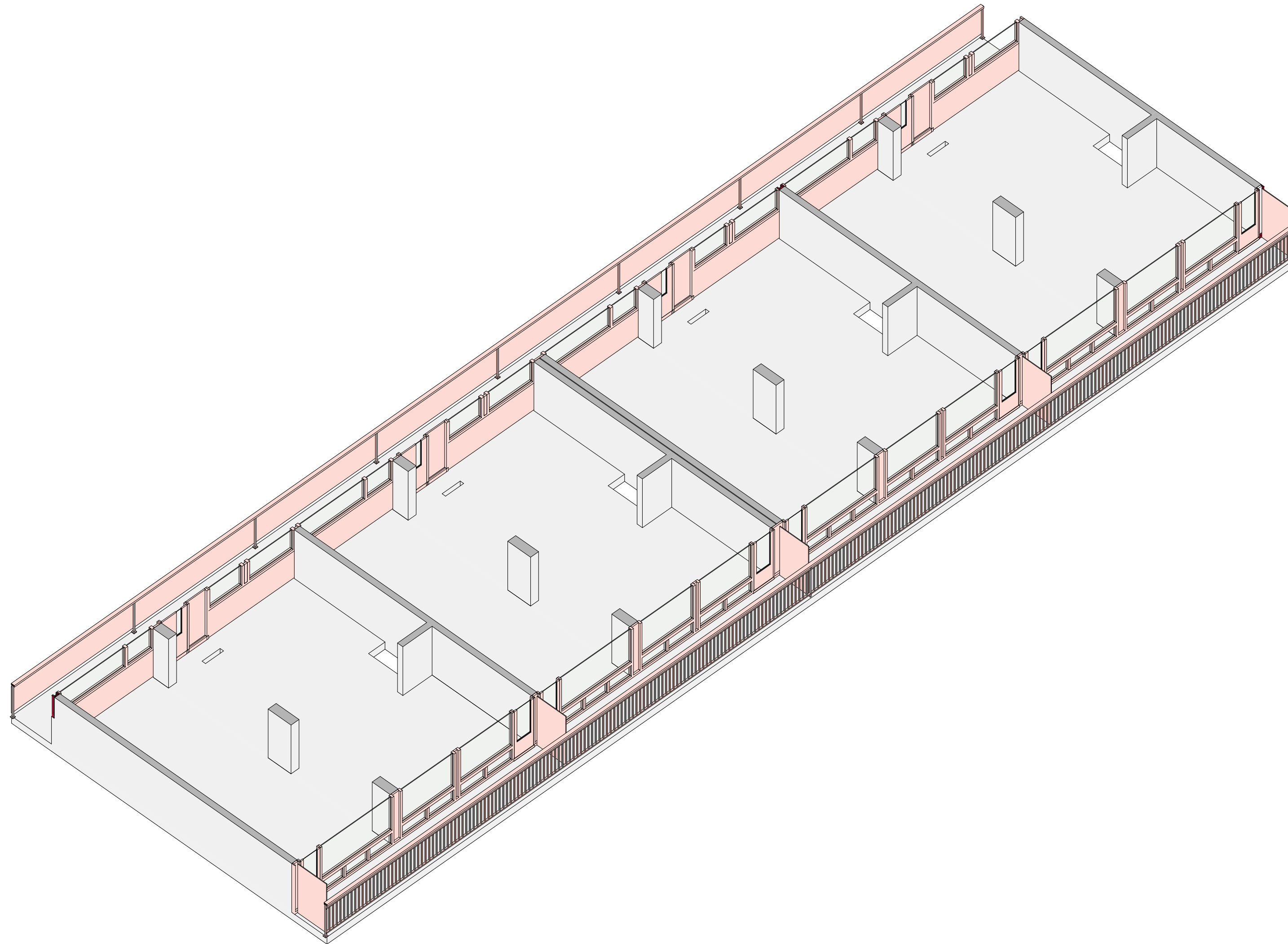
X = Fixed Connection
 \ = Semi-Fixed Connection
 O = Loose Connection

[illegible]

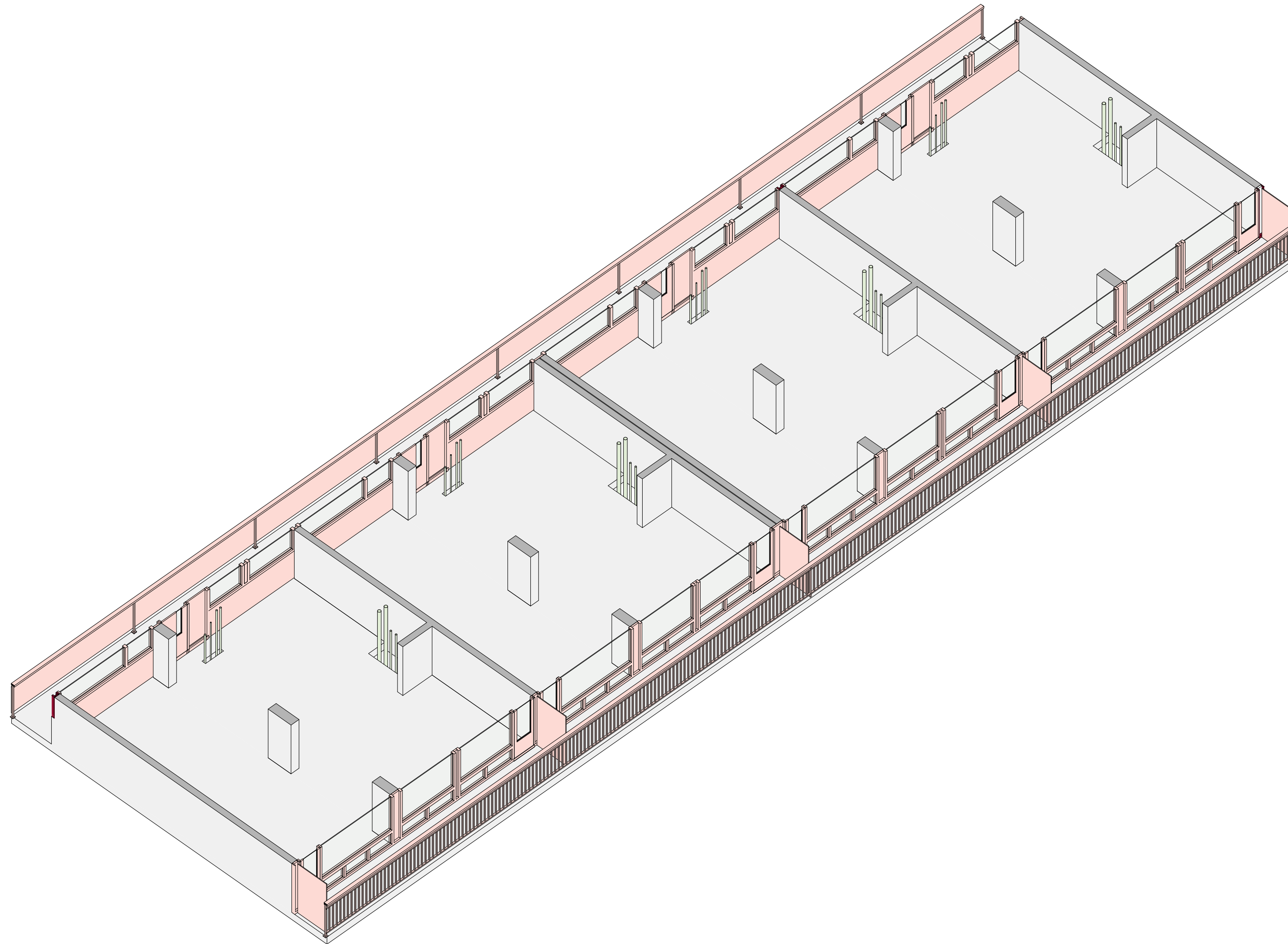
Structure



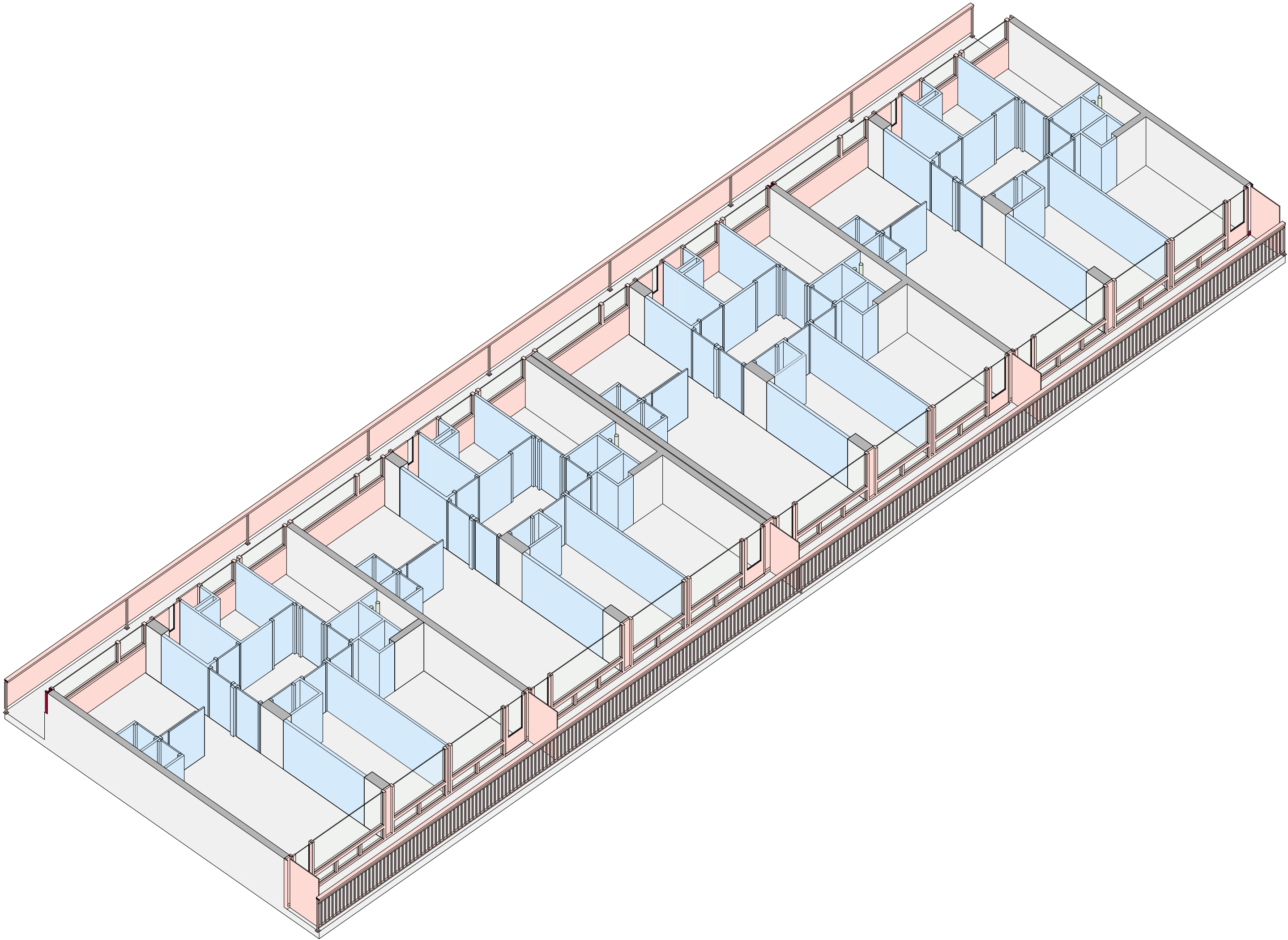
+ Skin



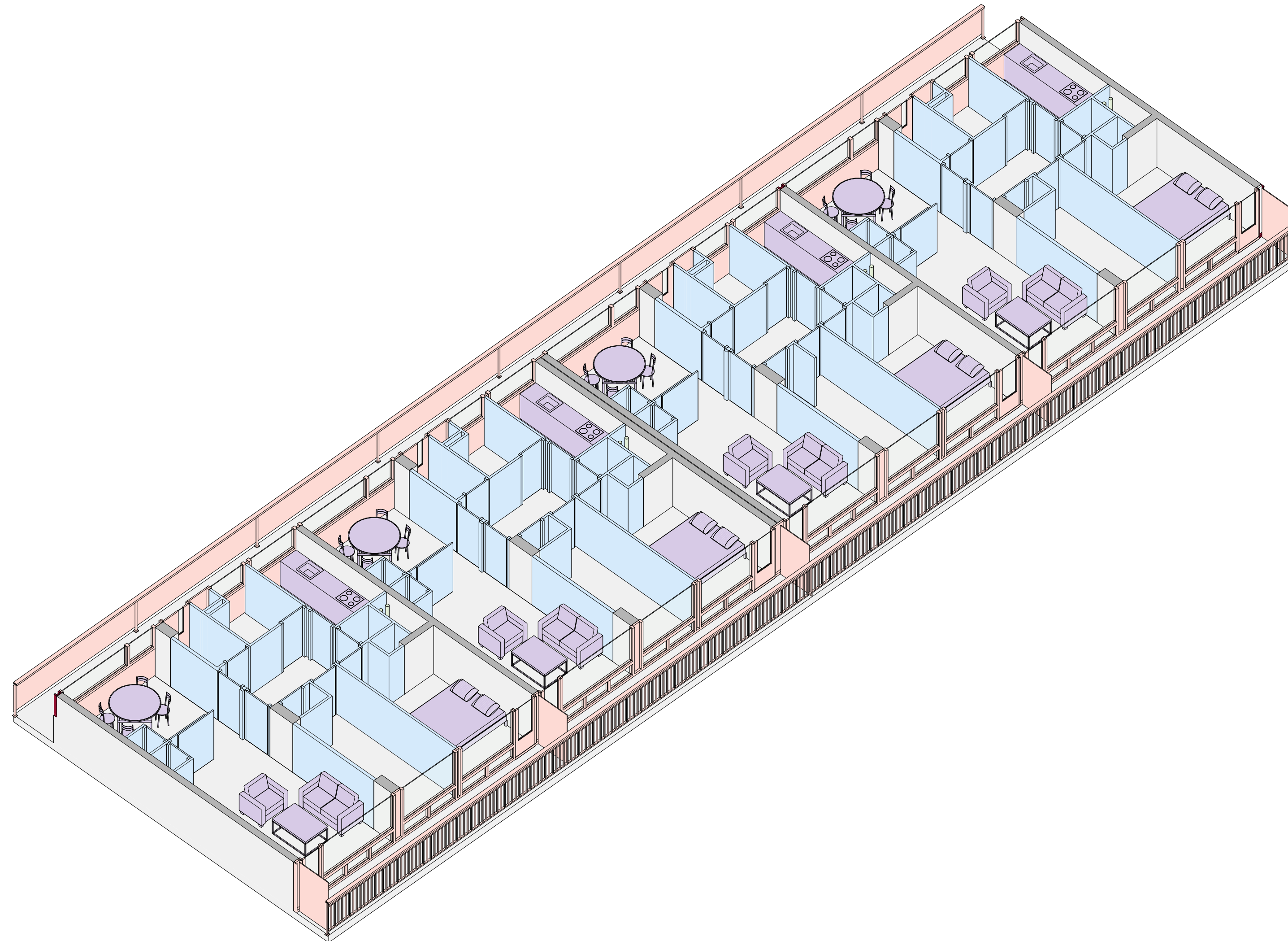
+ Services



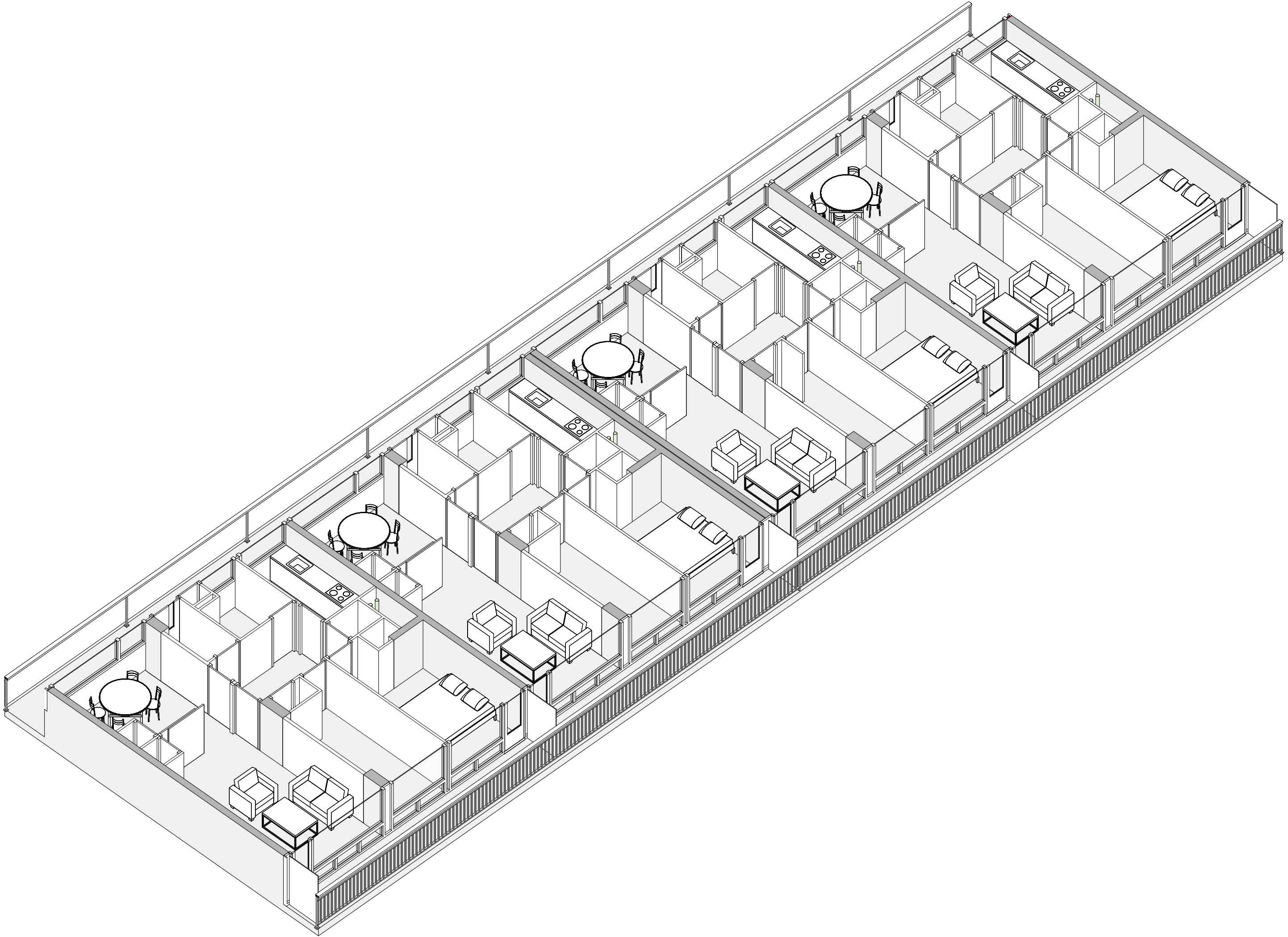
+ Space Plan



+ Stuff



Original Plan (1965)



Impression (1965)



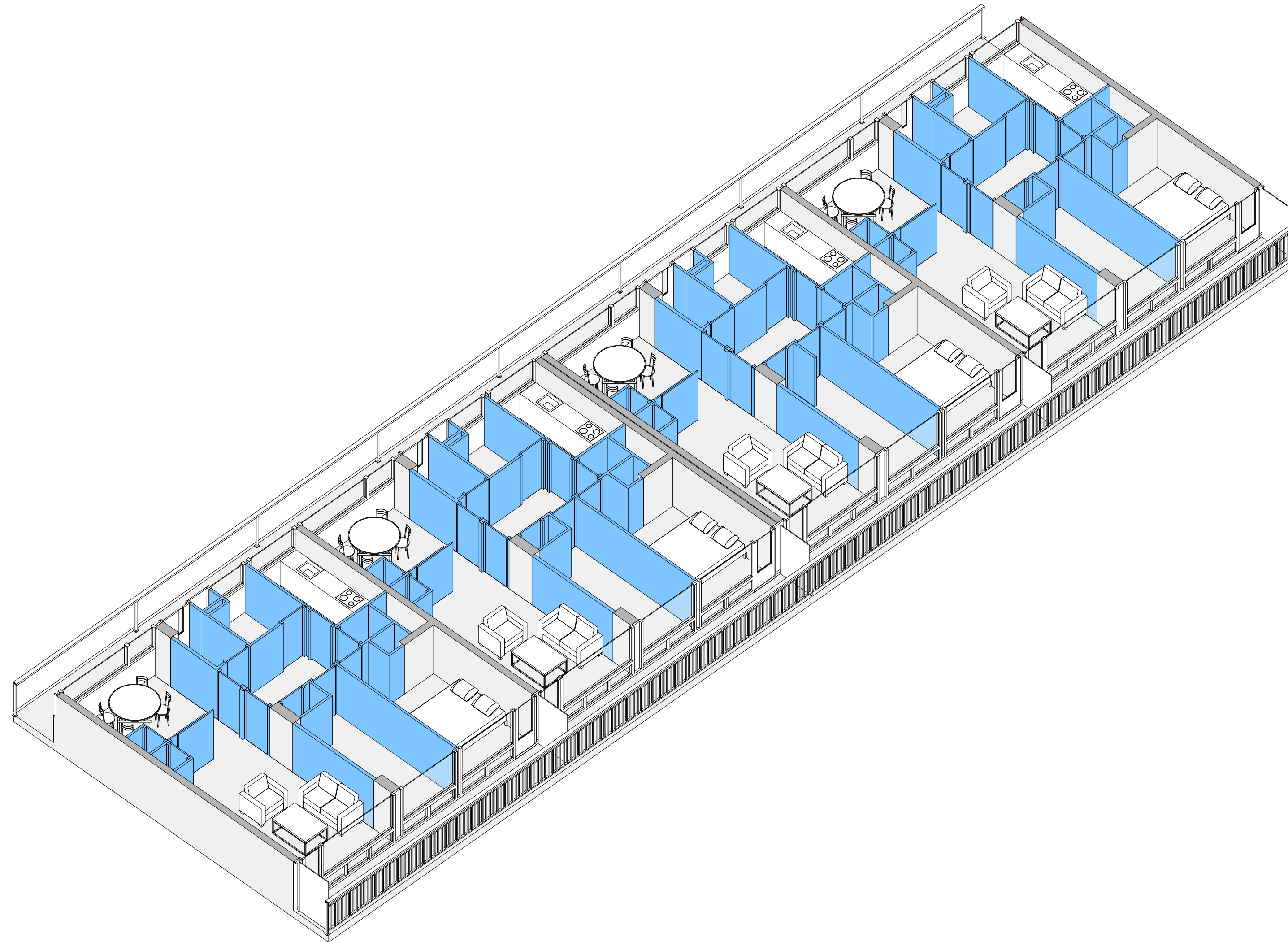
Funda (2024)

Impression (1965)

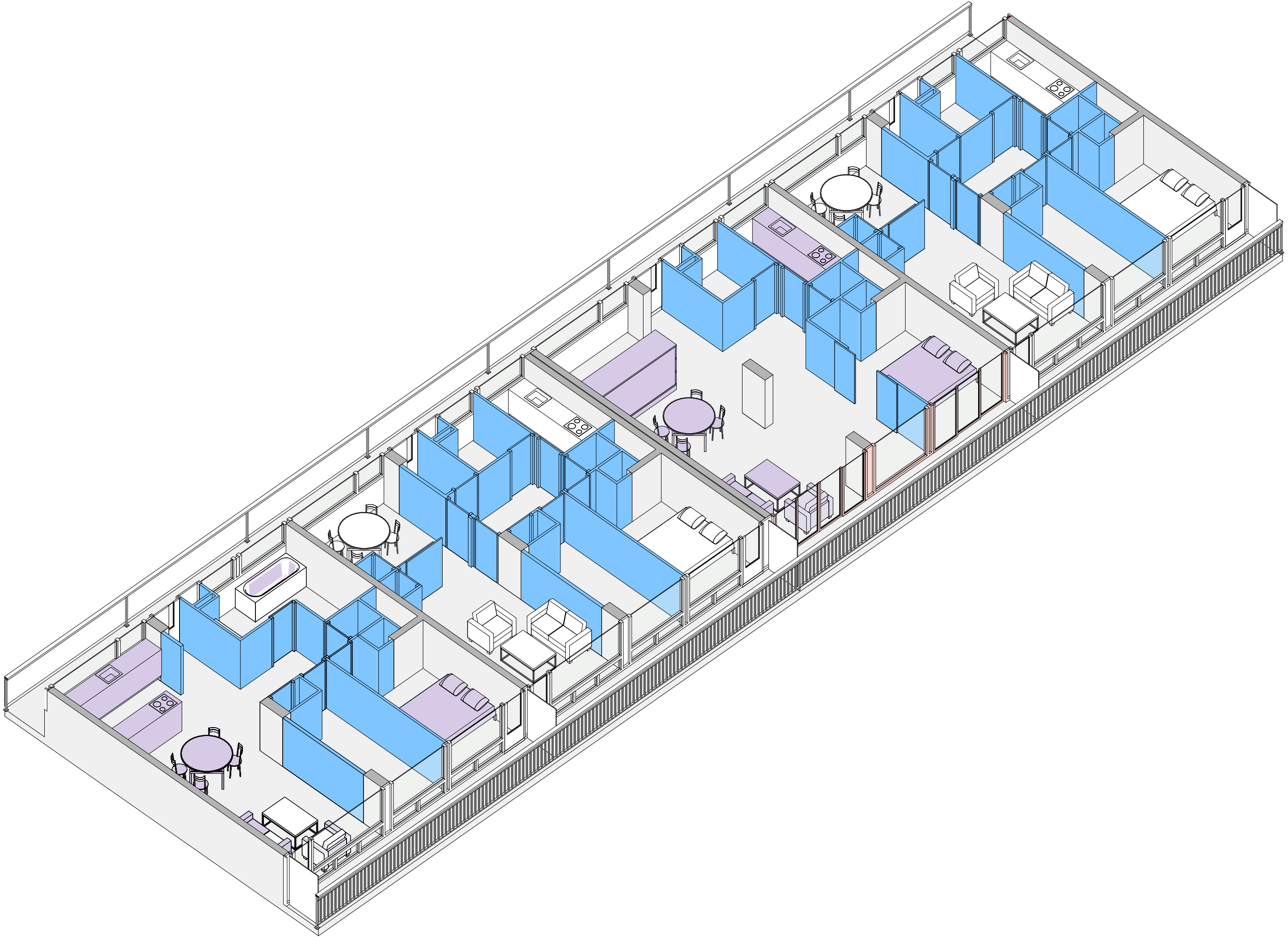


Funda (2024)

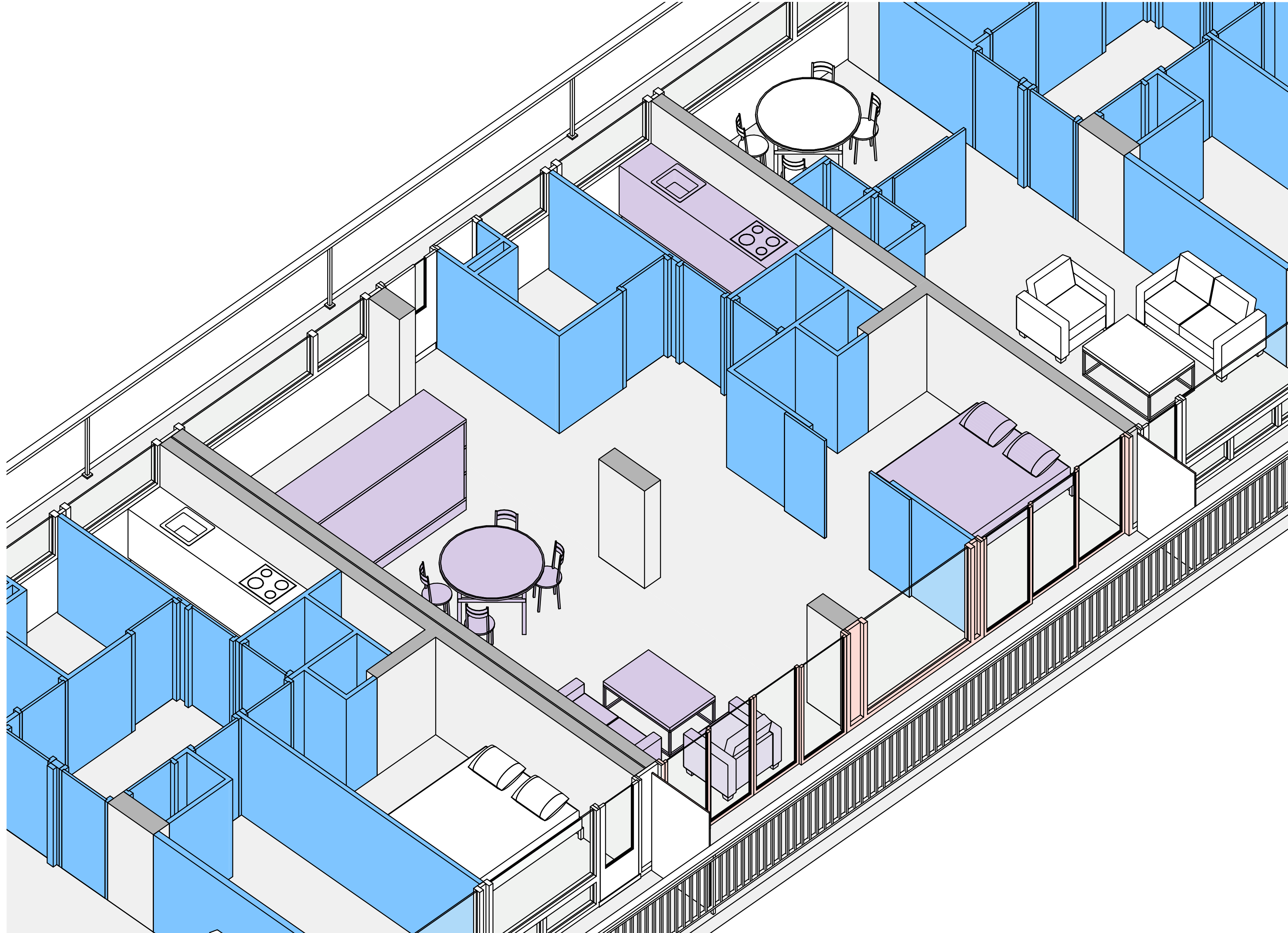
1965



2024



Nr. 879



Open Plan



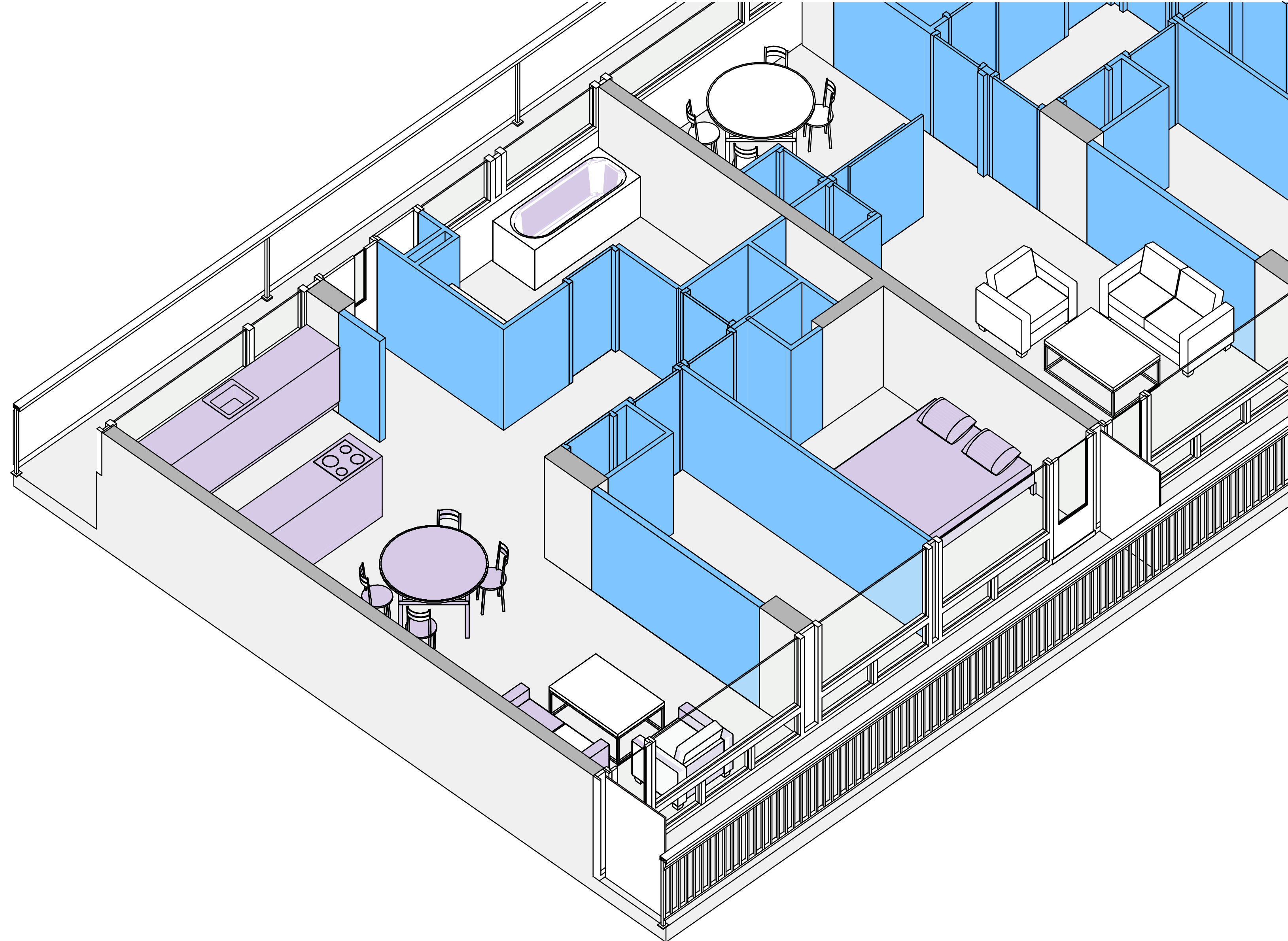
Funda (2024)

Relocating the Kitchen



Funda (2024)

Nr. 1046



Removal of Bedroom



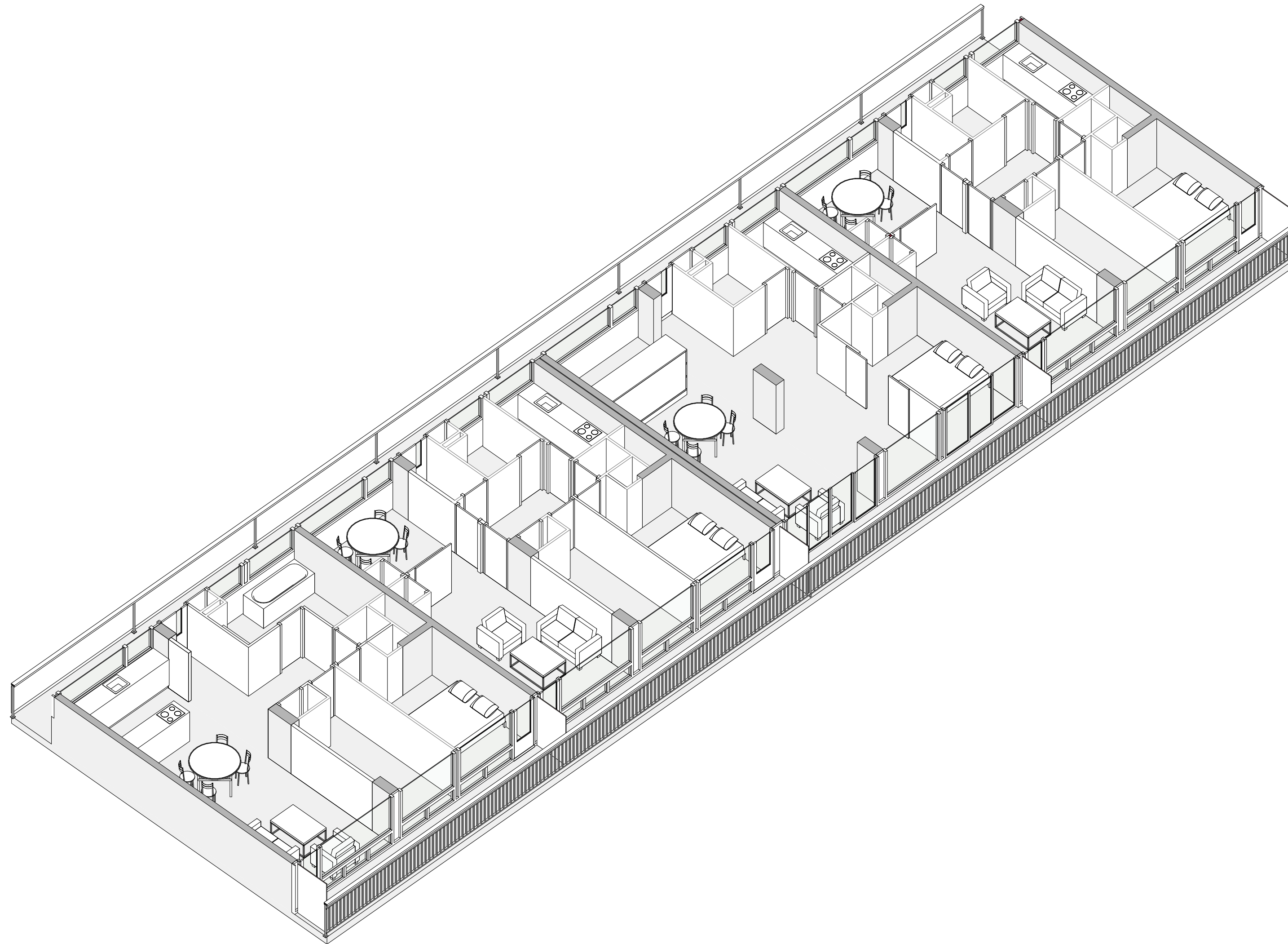
Funda (2024)

Open Plan

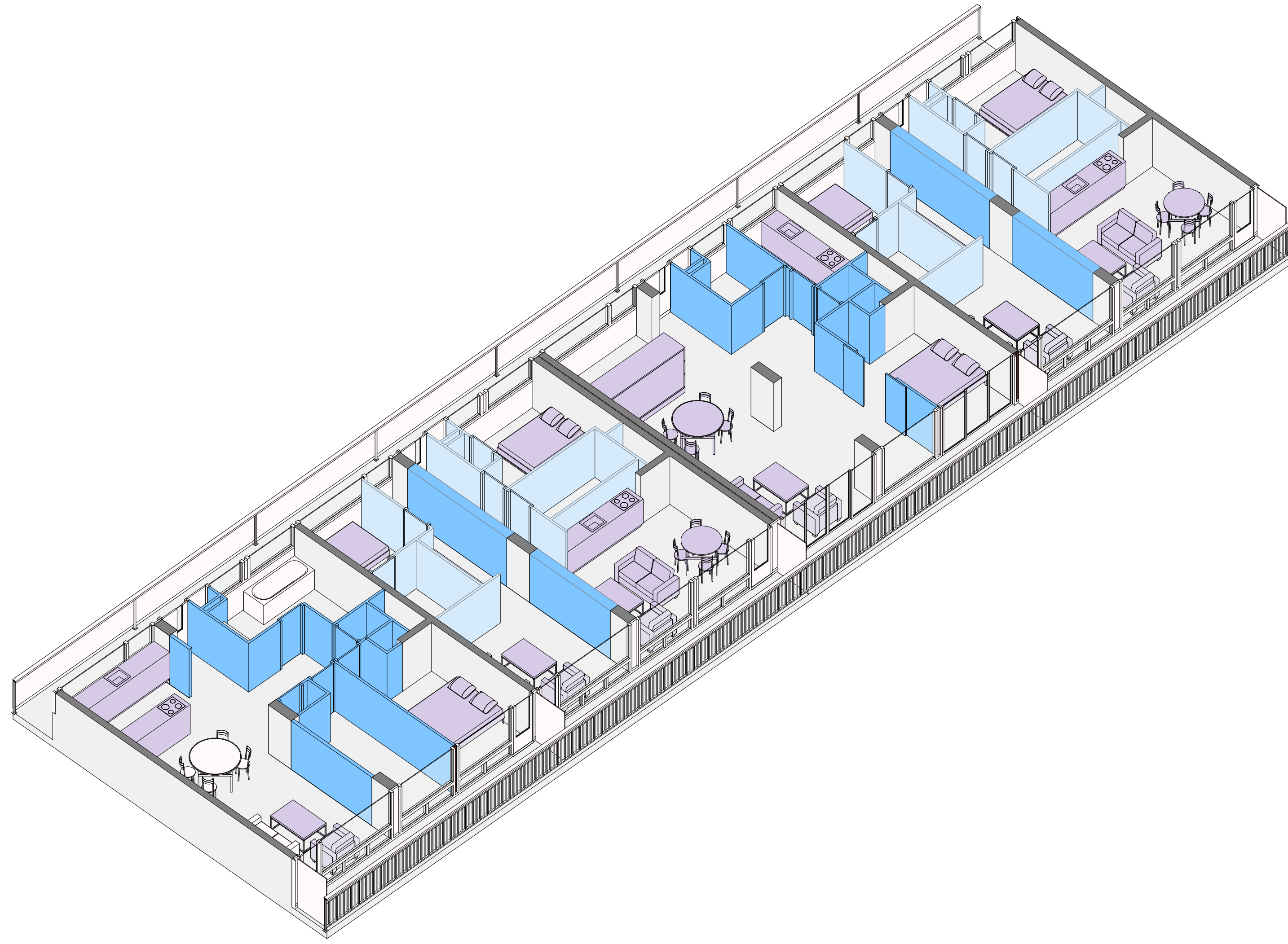


Funda (2024)

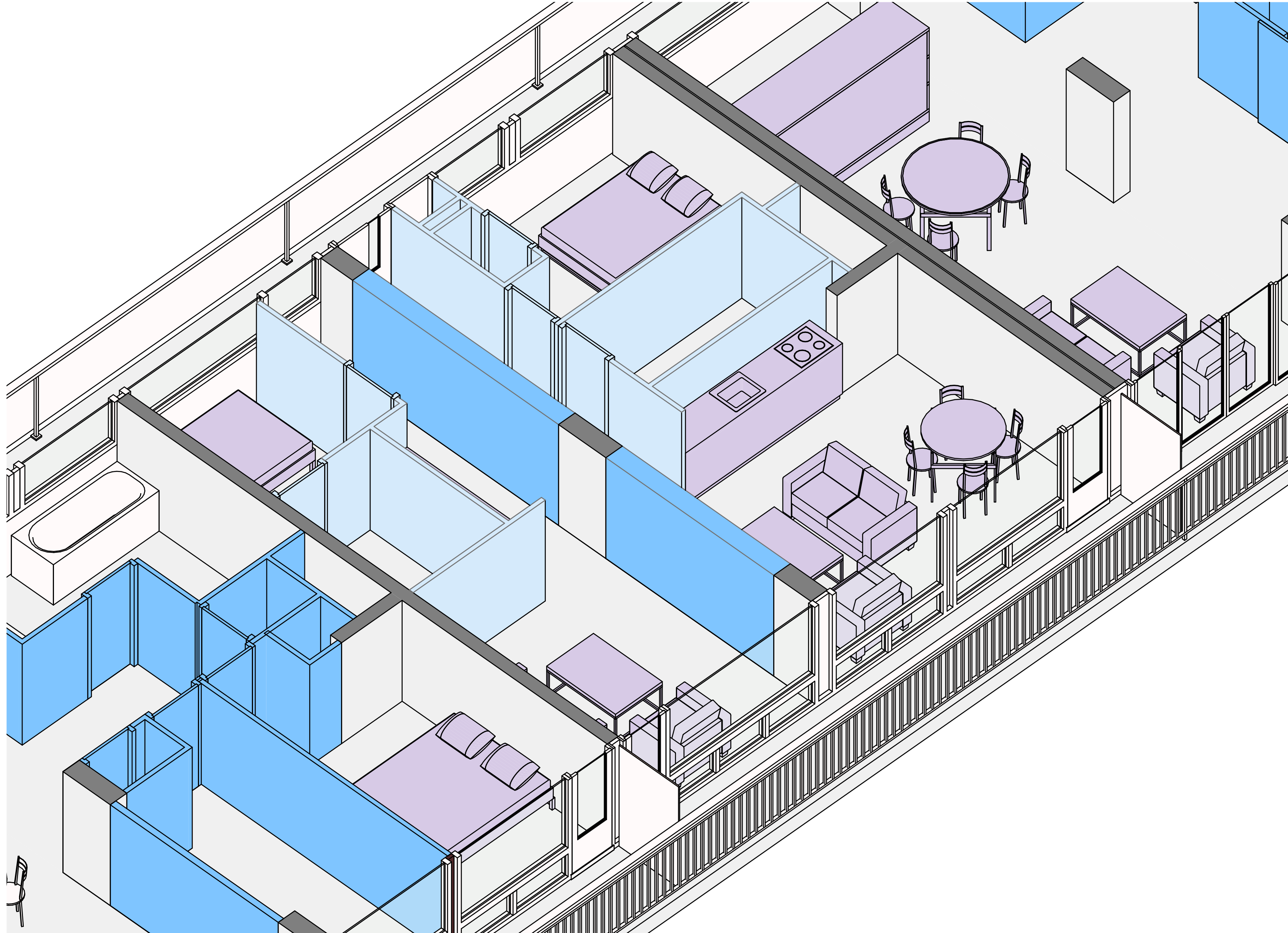
Current Apartment Layout (Funda, 2024)



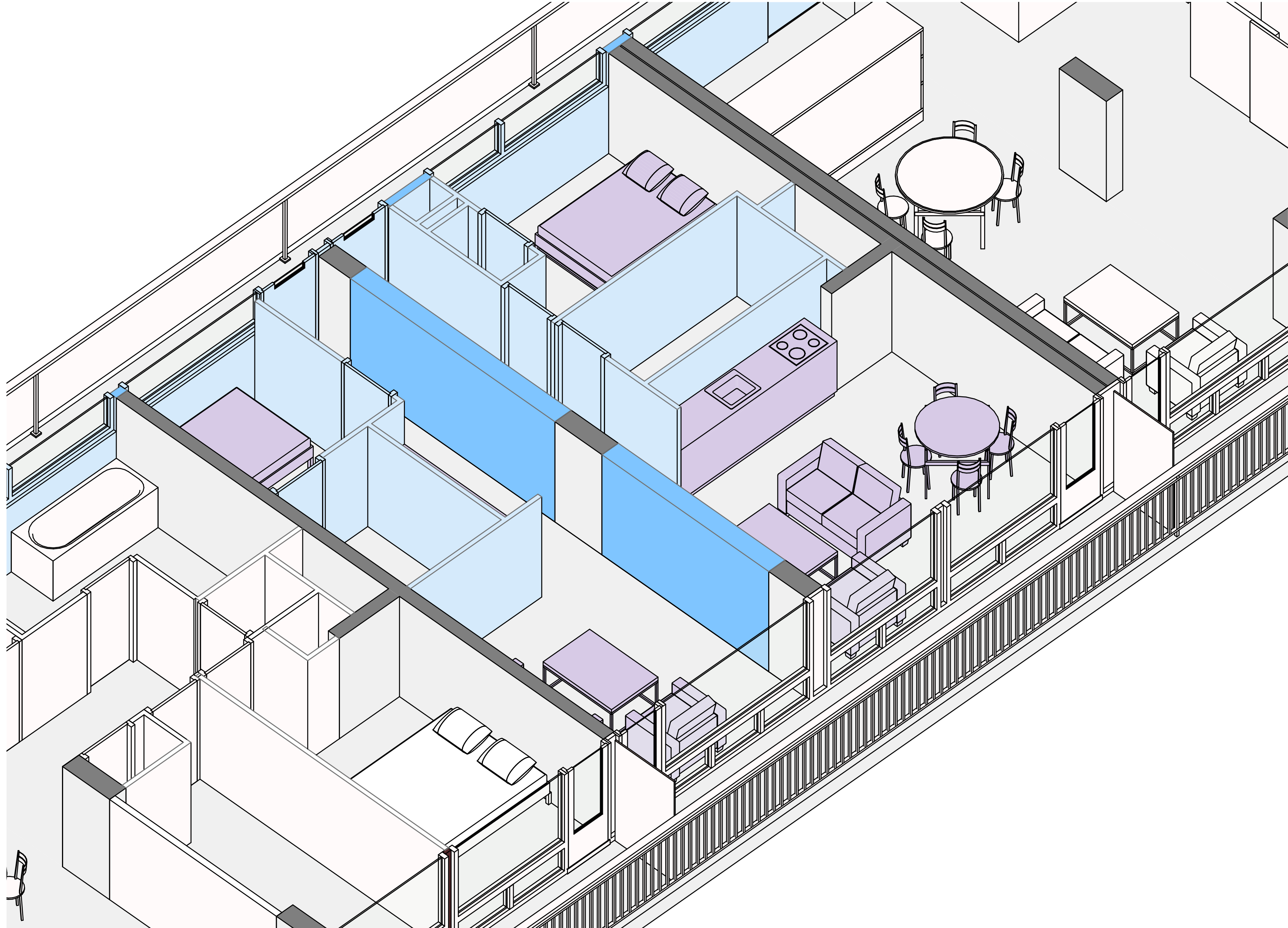
Splitting Apartments



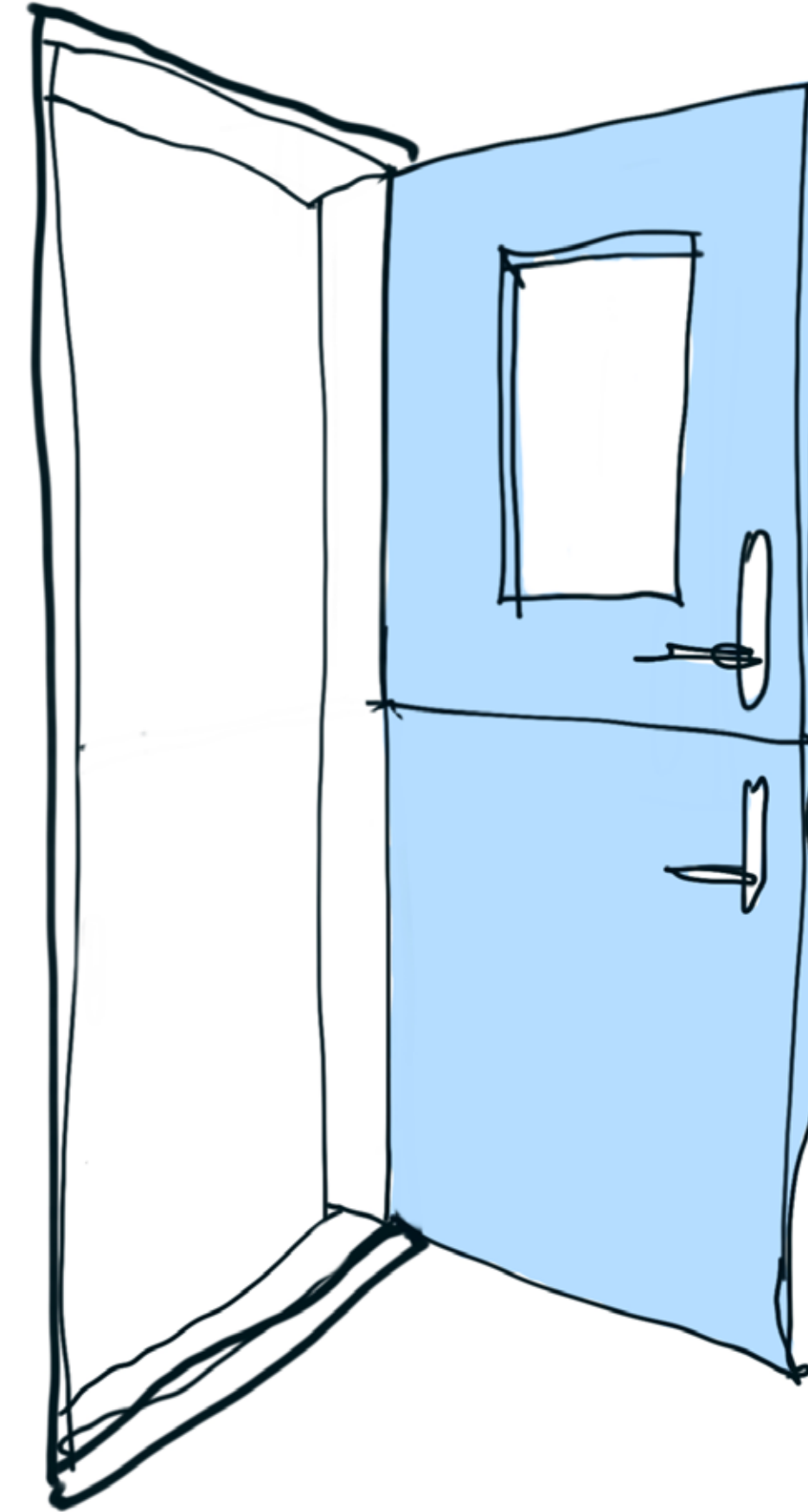
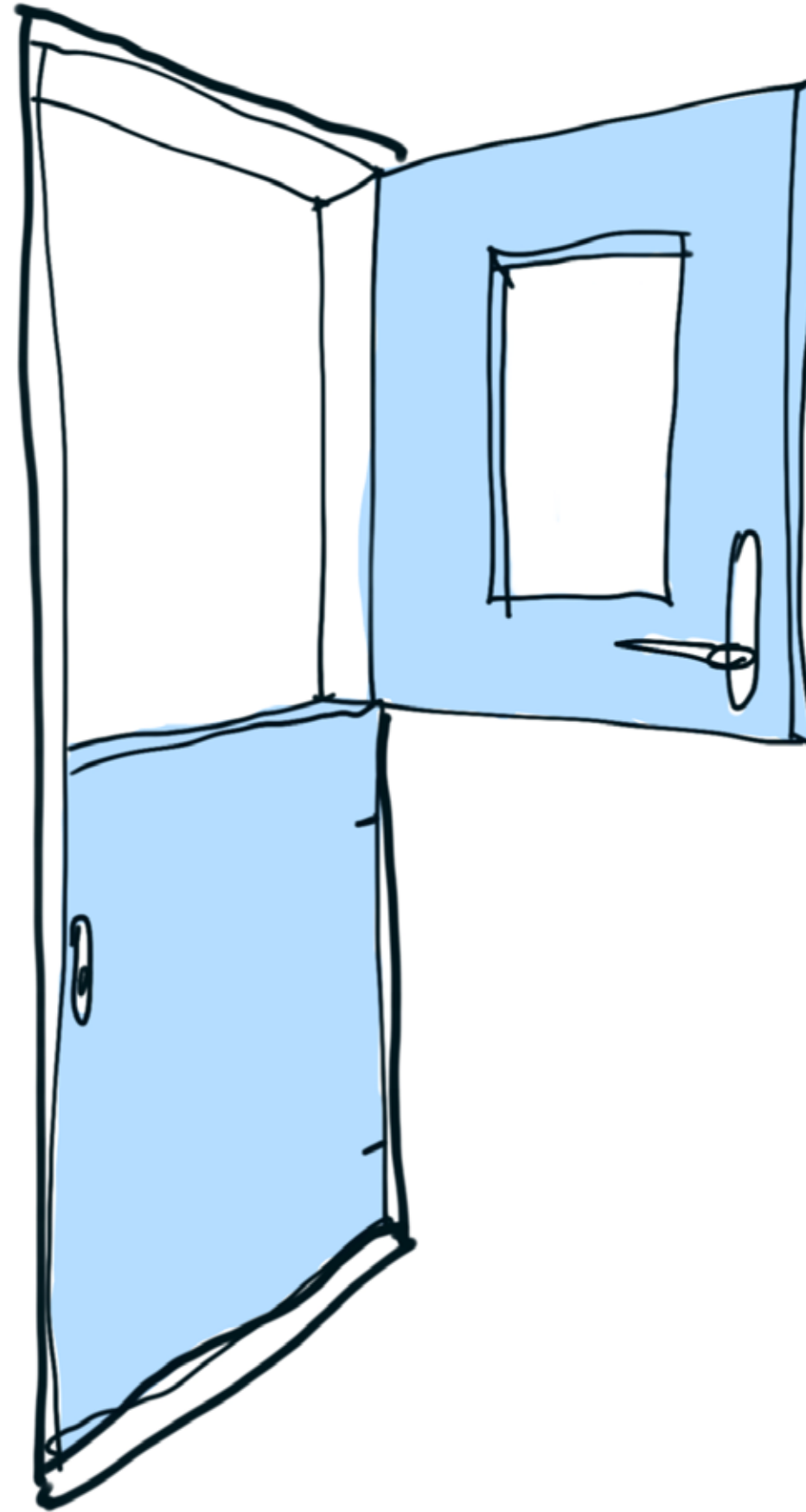
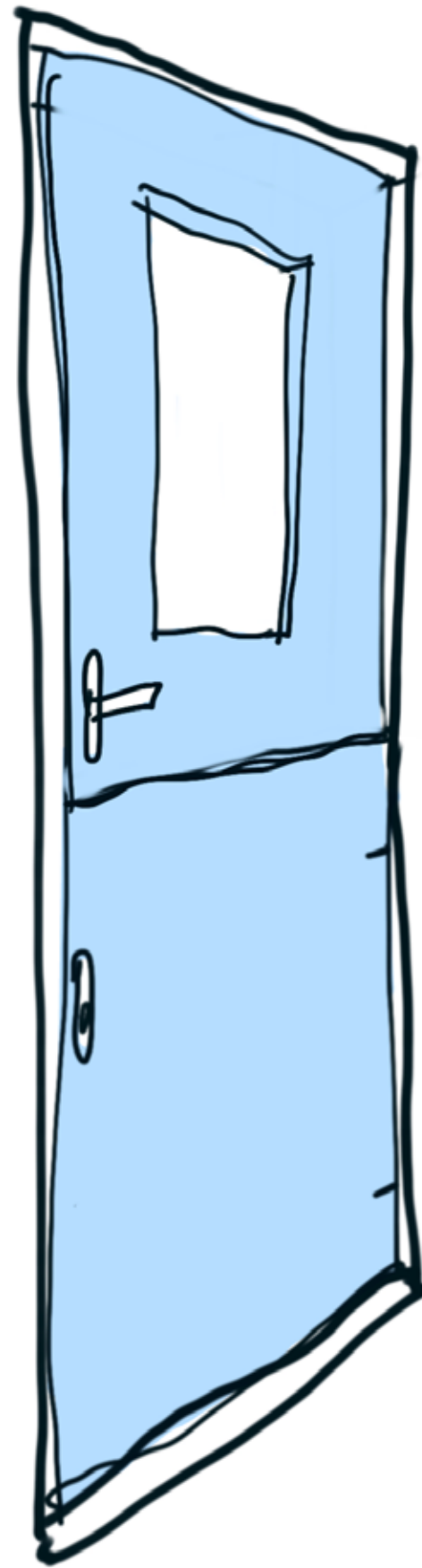
Splitting apartment & insulation east facade.



Splitting apartment & insulation east facade.

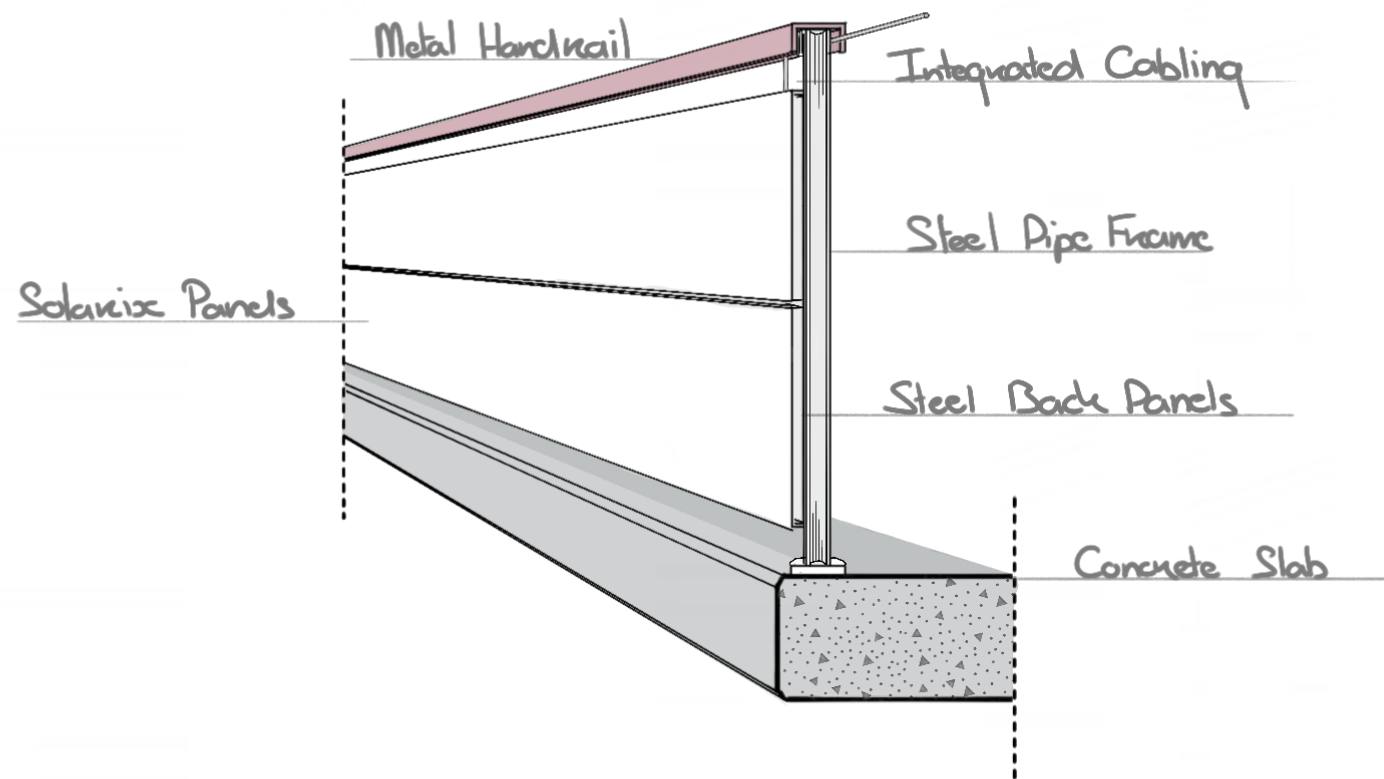
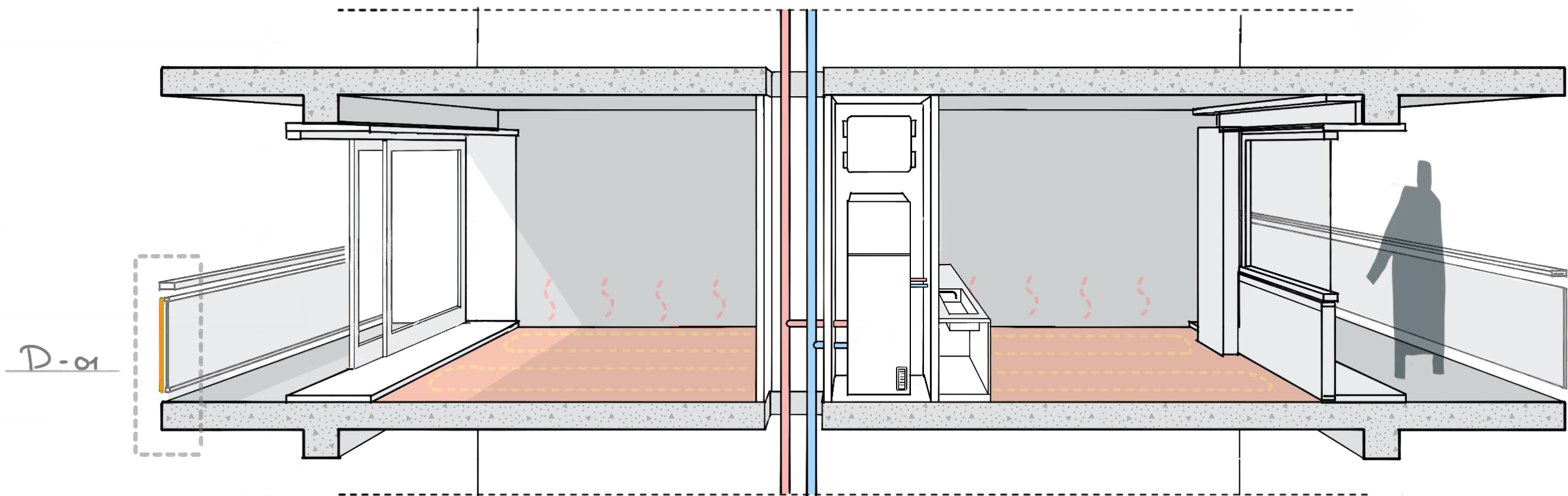


Introducing, the Dutch Door!



Climate Concept

Apartment: Perspective Section



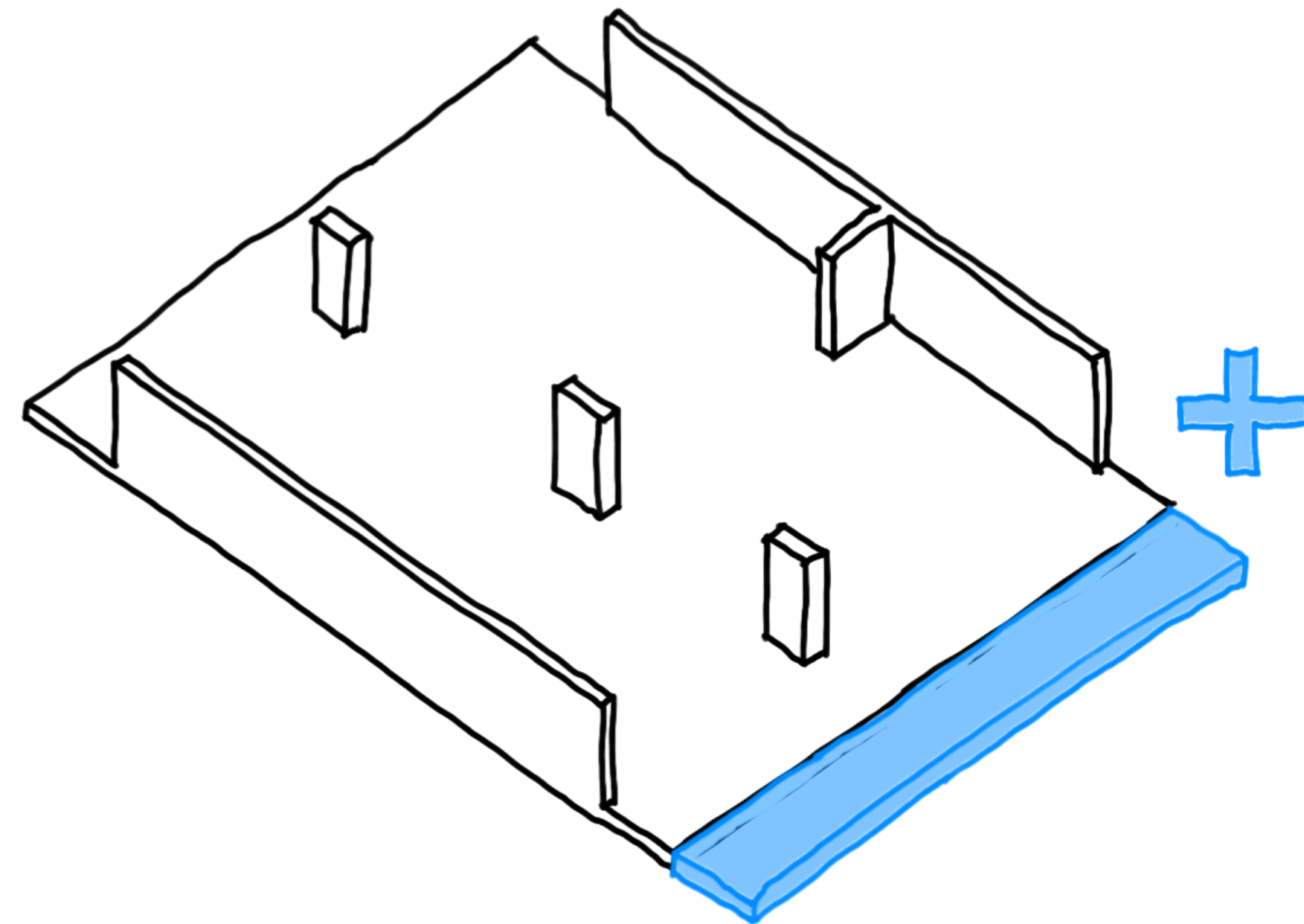
Detail 01: Solar Balustrade
White solar facade panels
by: Solarix



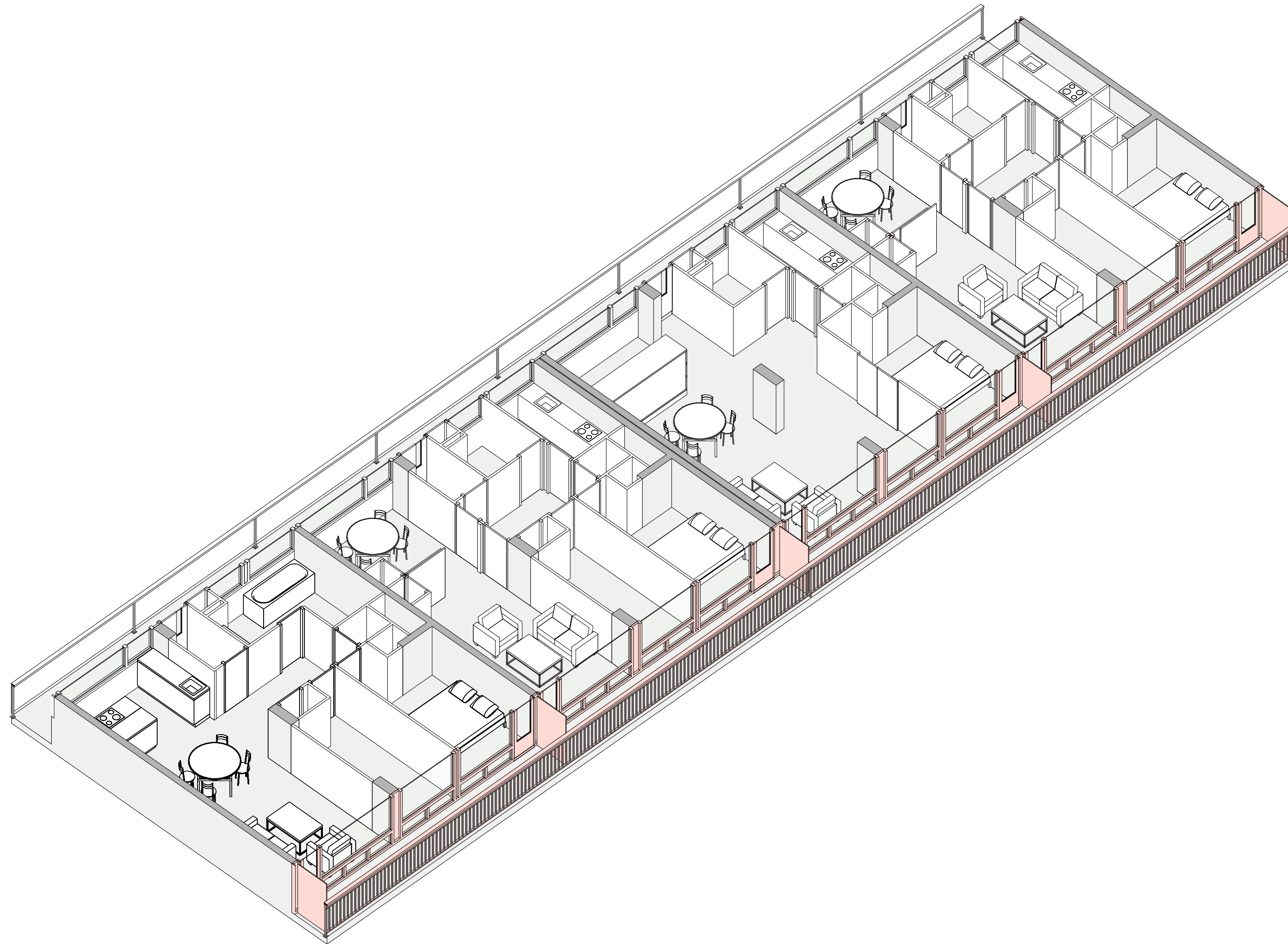
2024

GIF

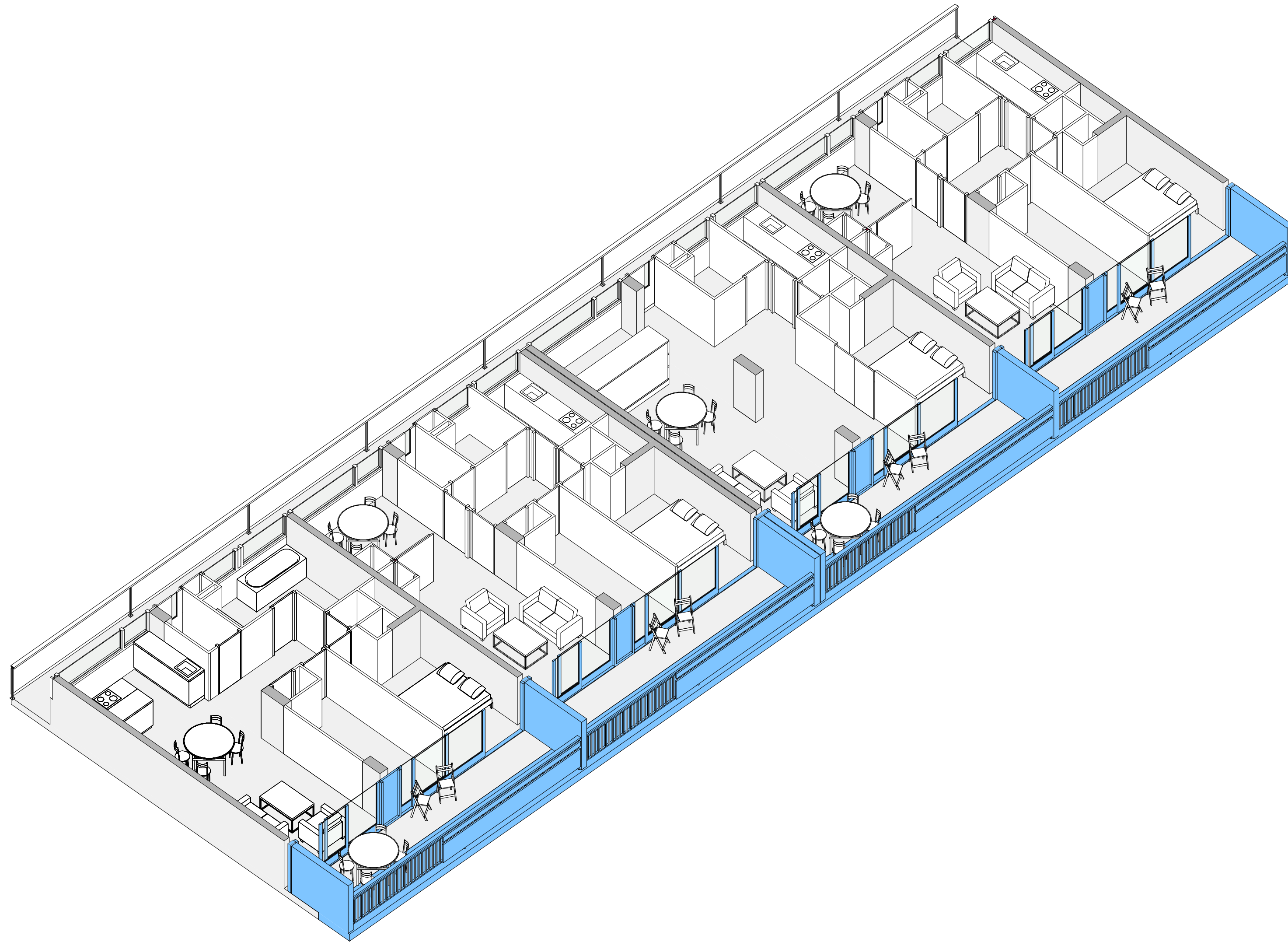
Strategy 2: Extension



- West Facing Windows + Balcony



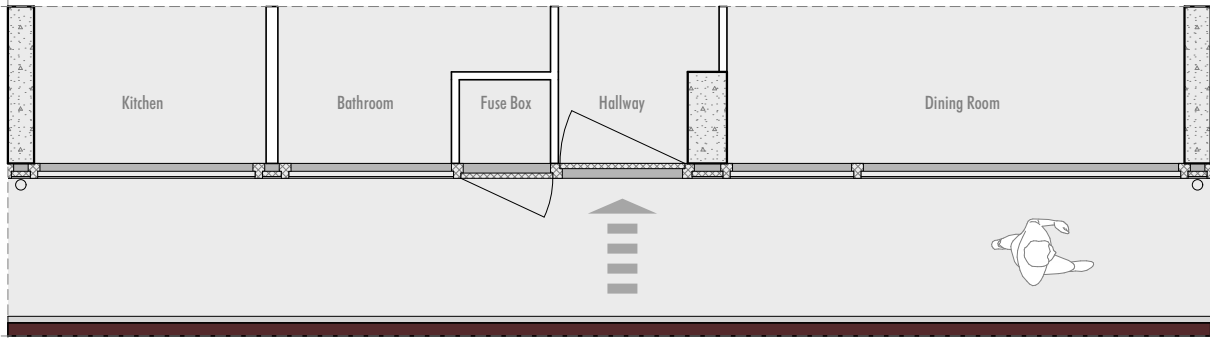
+ New Windows & Balconies



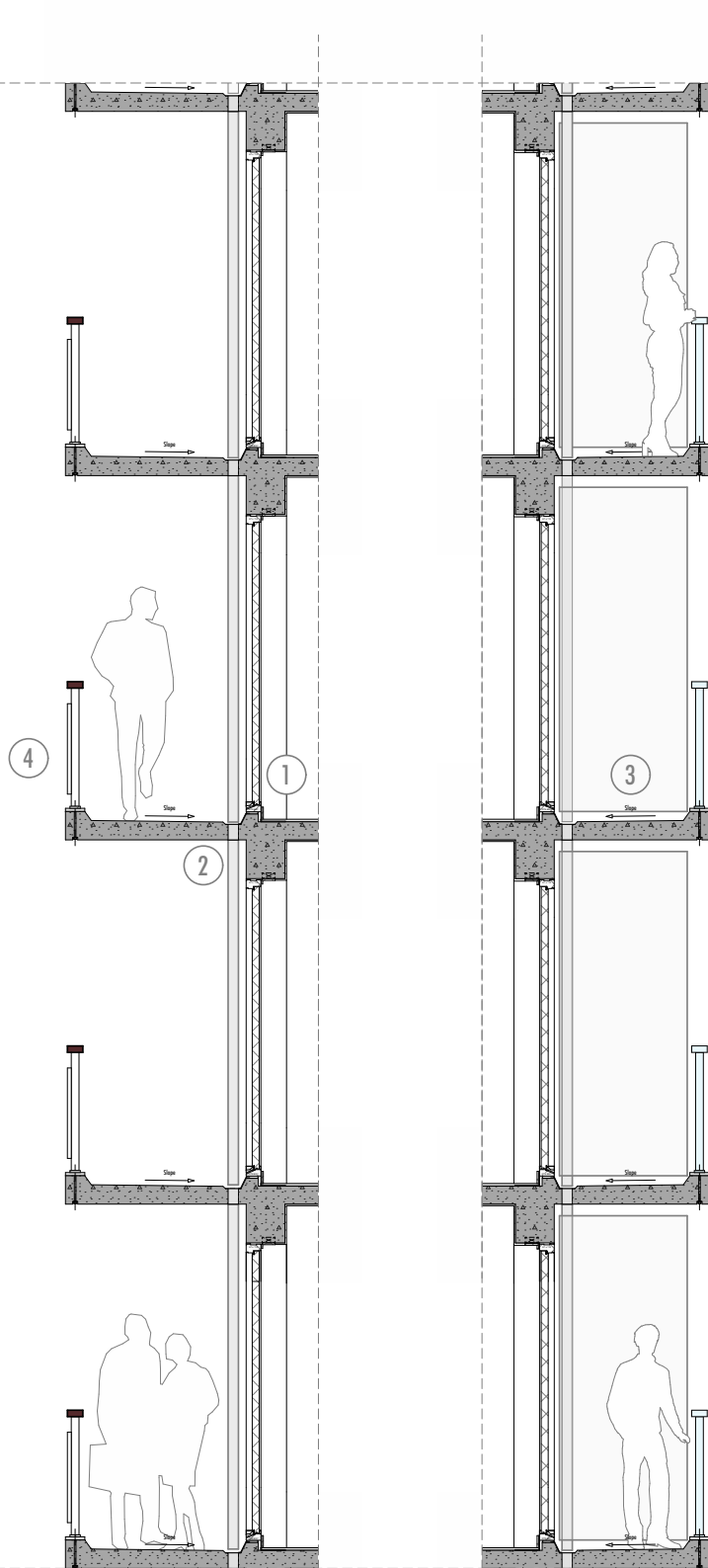
East Facade



East Floorplan



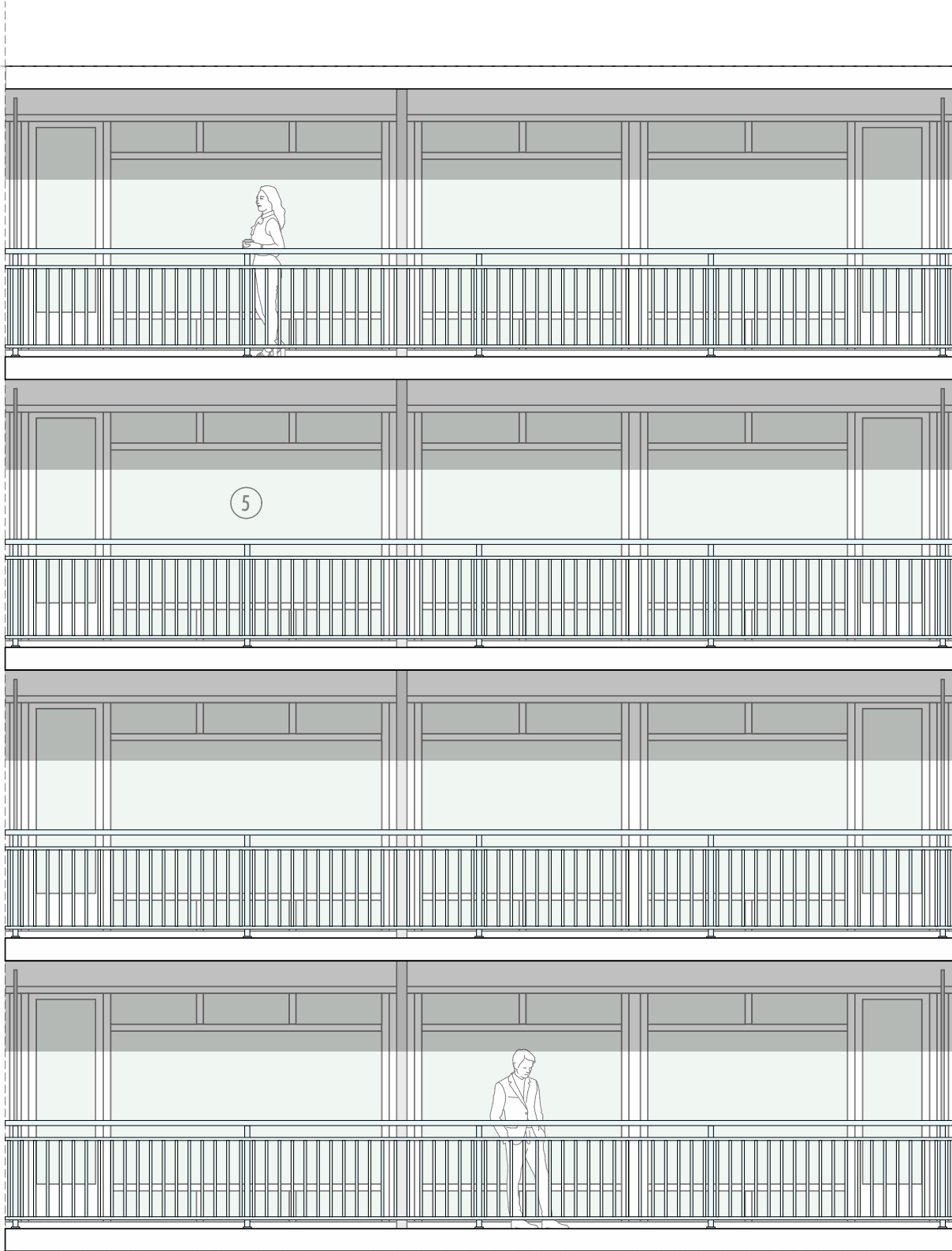
Vertical Section



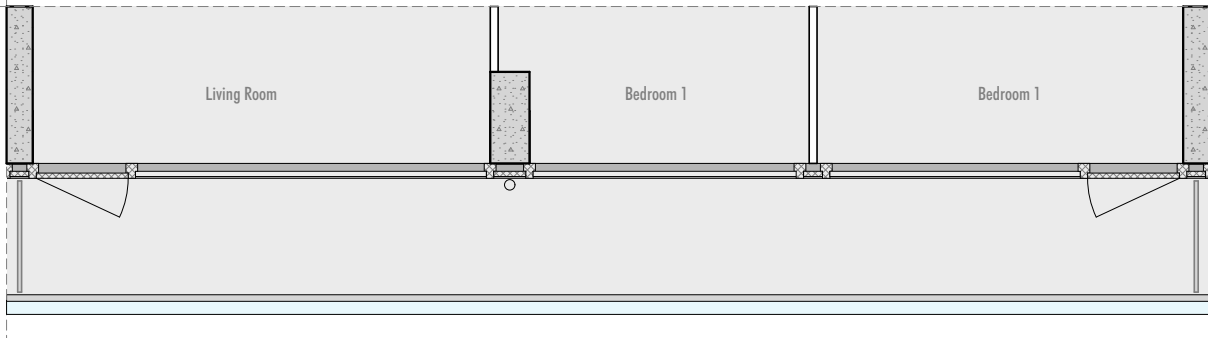
Problems

- 1. Poor Accessibility
- 2. Thermal Bridging
- 3. Balcony Width (1200 mm)
- 4. Zero Sustainable Energy
- 5. Cluttered Façade Composition

West Facade



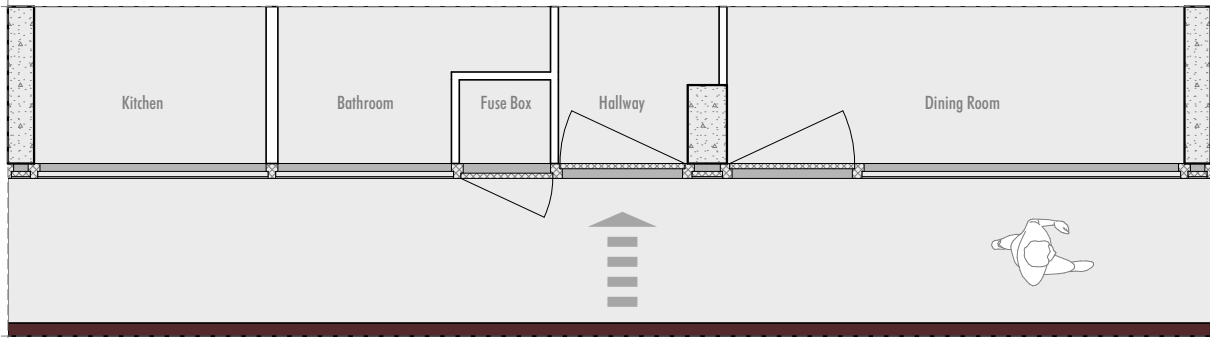
West Floorplan



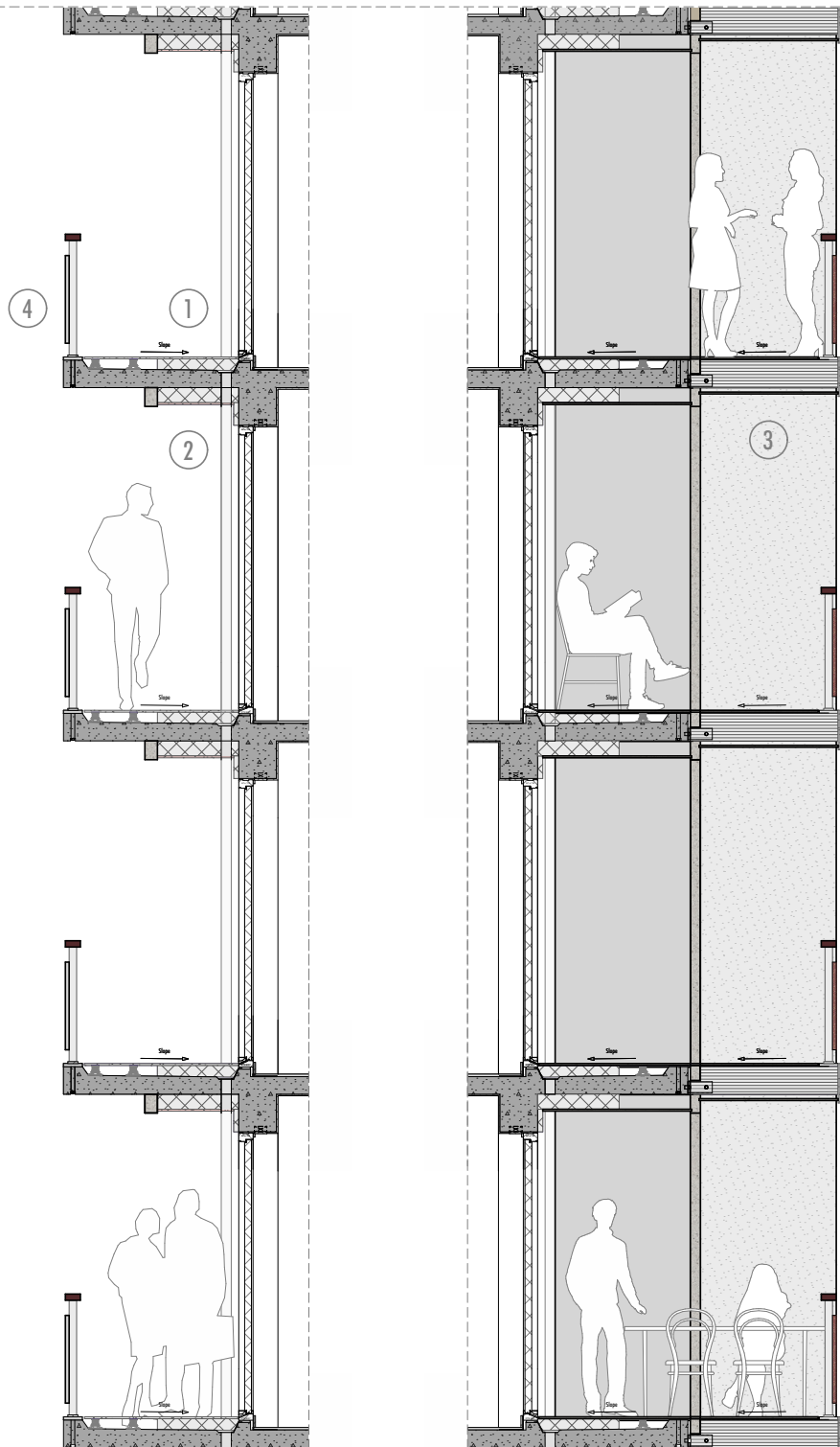
East Facade



East Floorplan



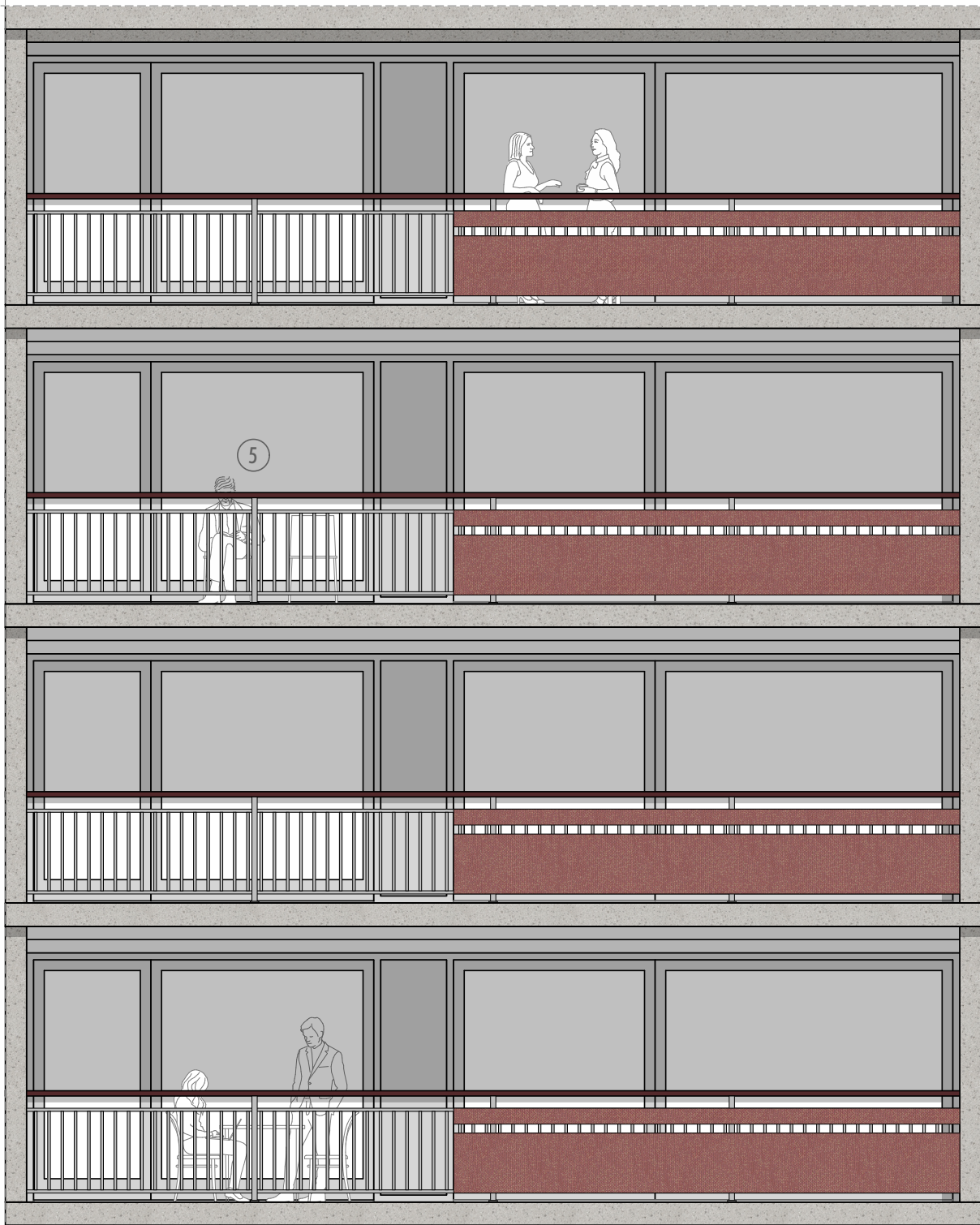
Vertical Section



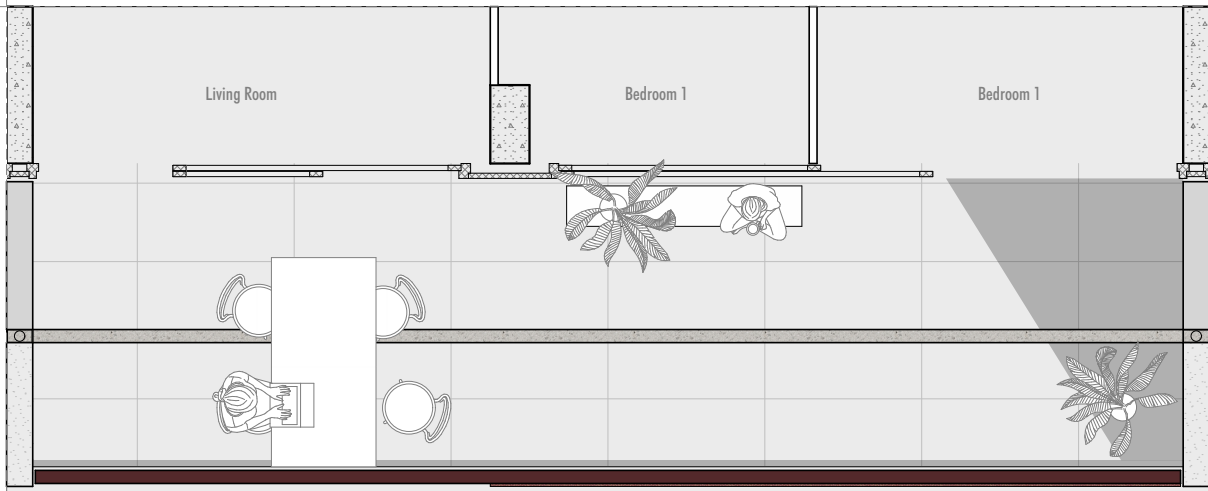
Solutions

1. Raised gallery floor
2. Gallery floor insulation
3. Balcony Extension
4. Building Integrated PV
5. Clean Façade Composition

West Facade



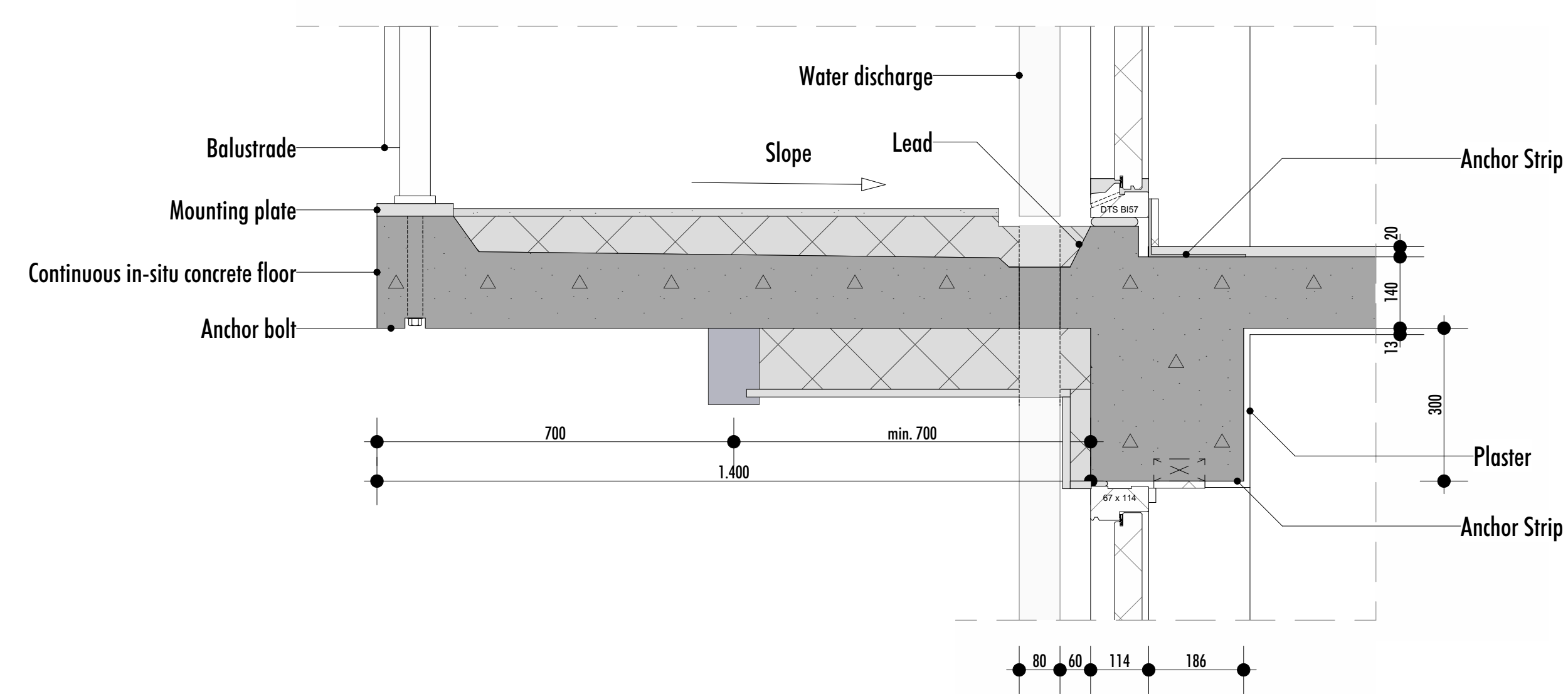
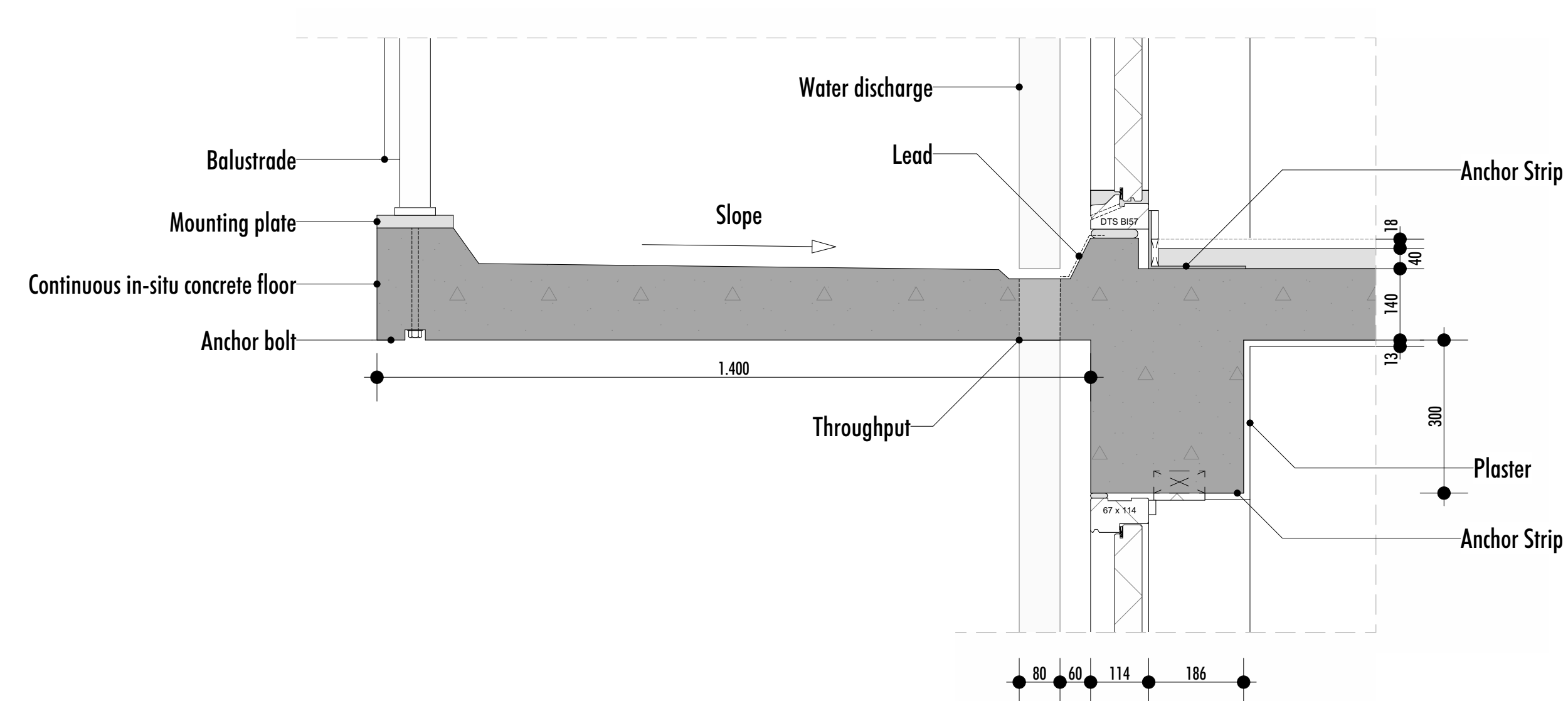
West Floorplan



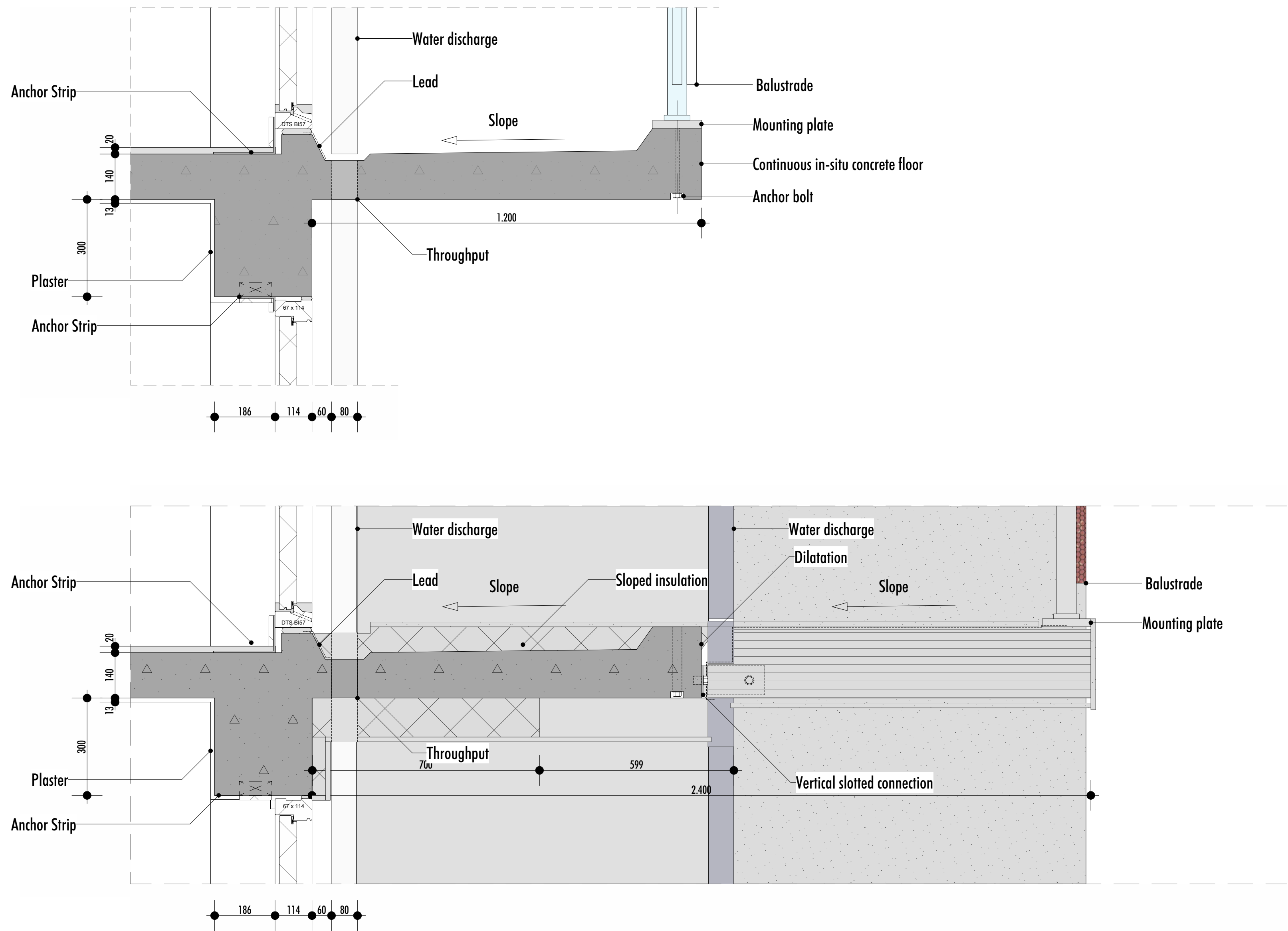




Detailing Gallery



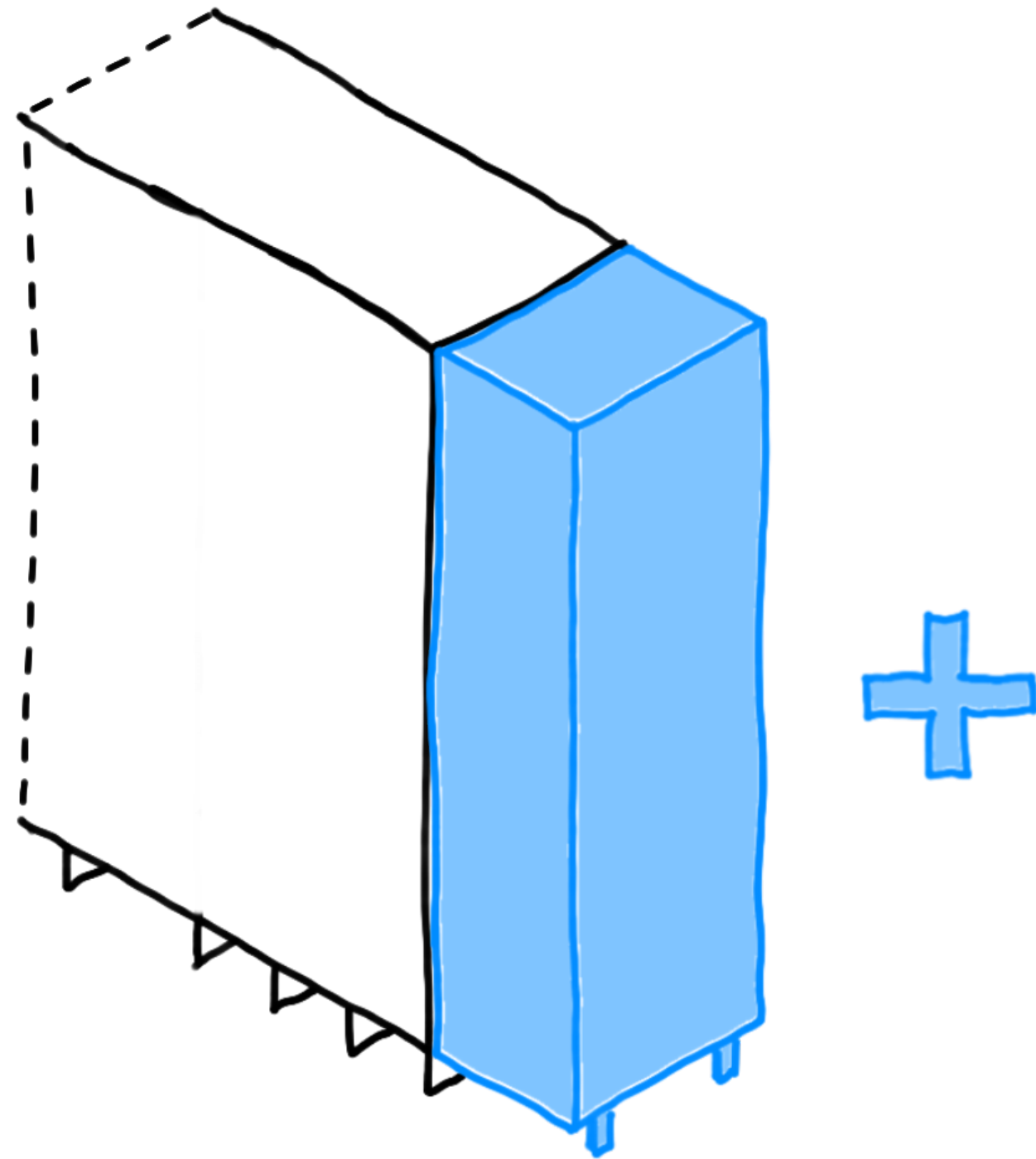
Detailing Balcony



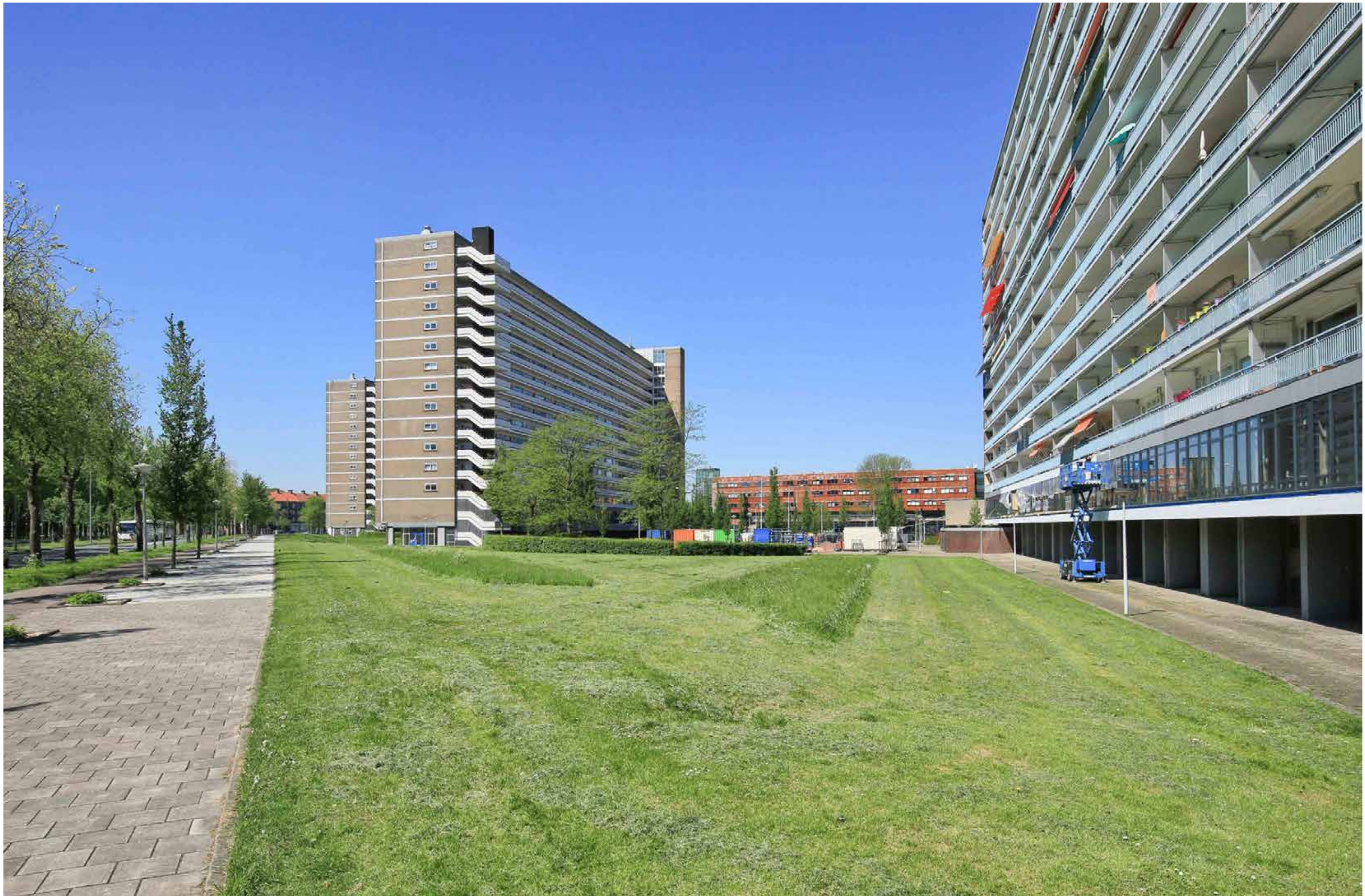




Strategy 3: Addition



Blind facades.



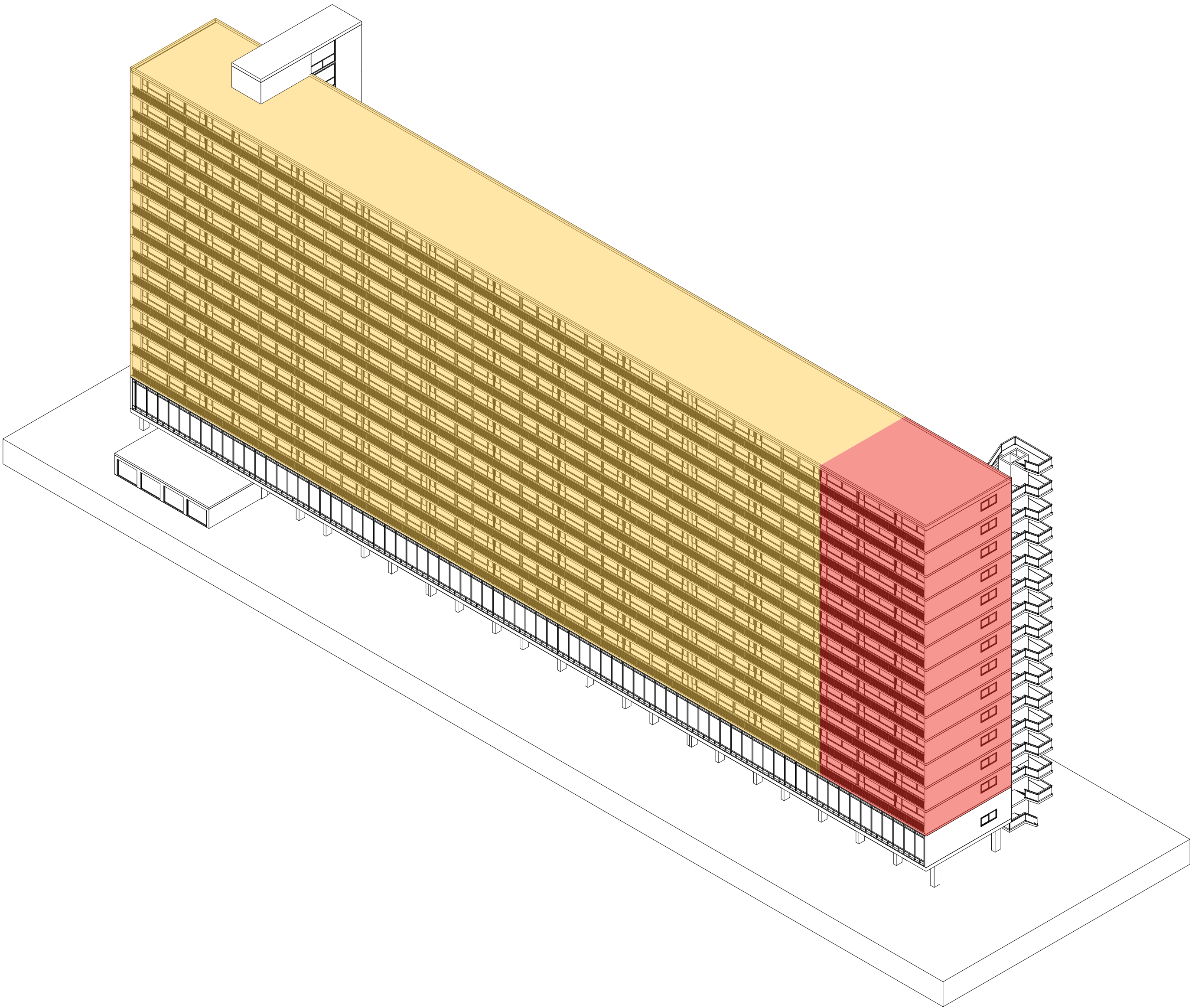
Funda (2024)

Views across existing green structures and the Sloterpas.

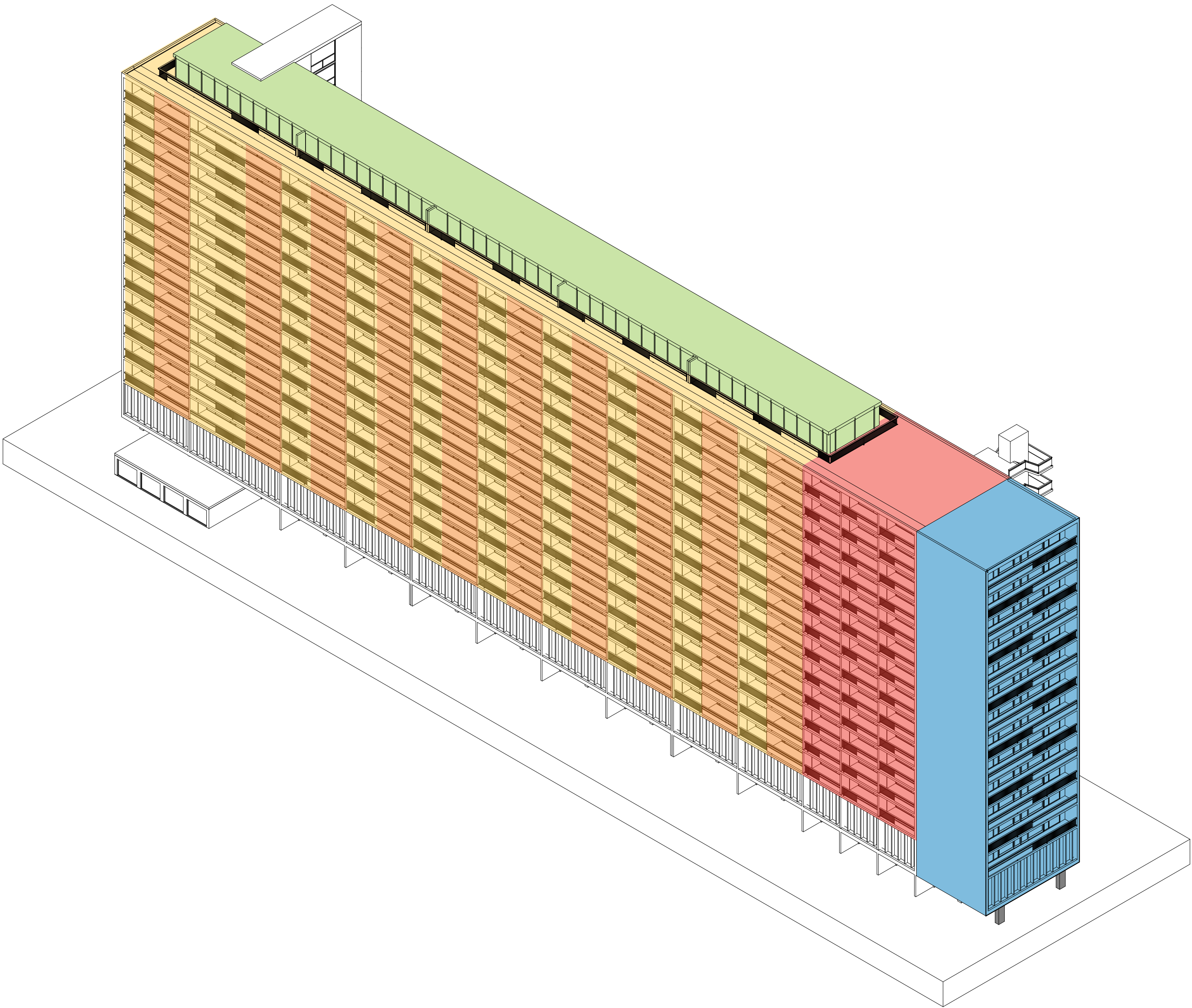


Funda (2024)

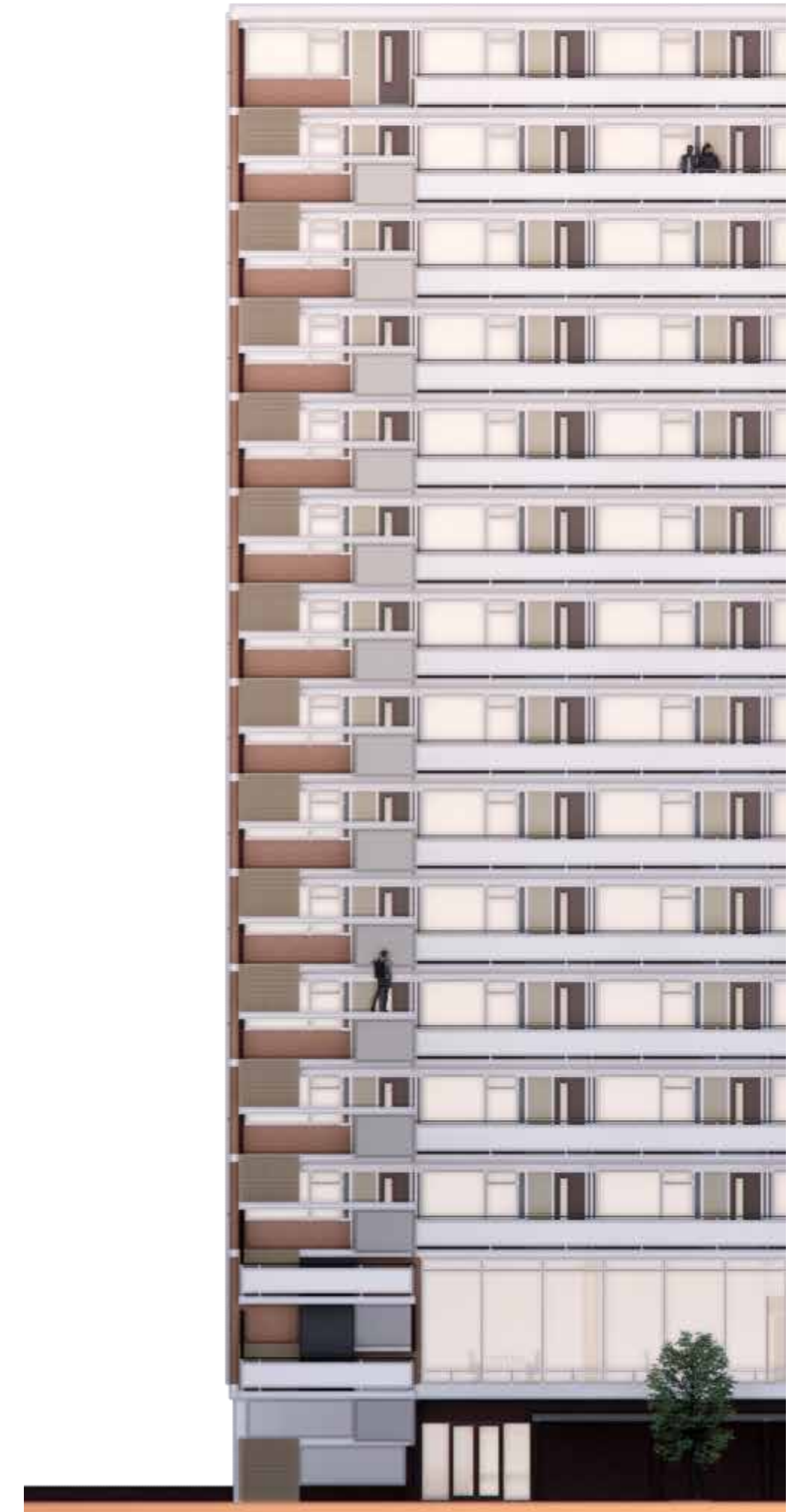
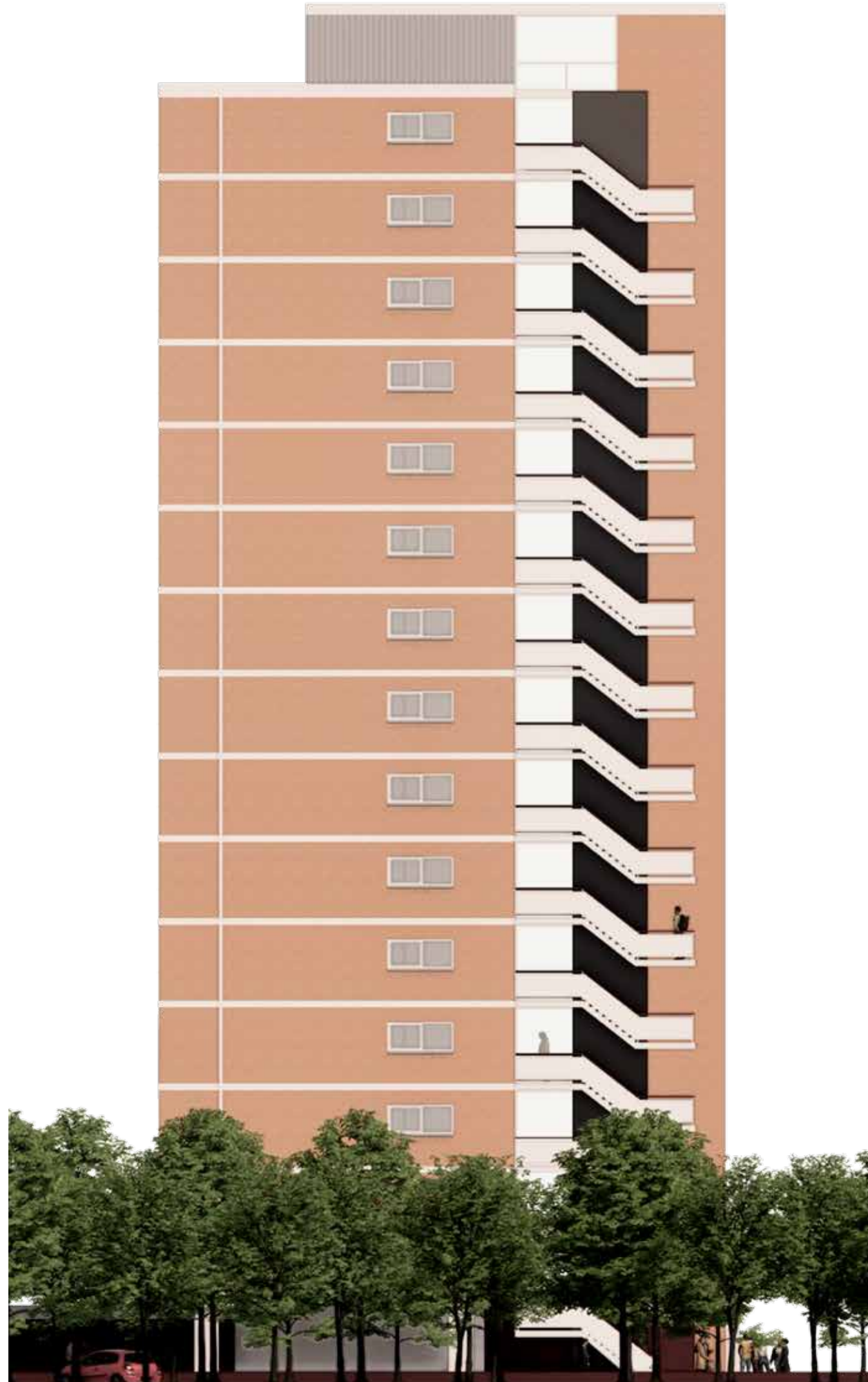
2 Apartment Typologies



5 Apartment Typologies



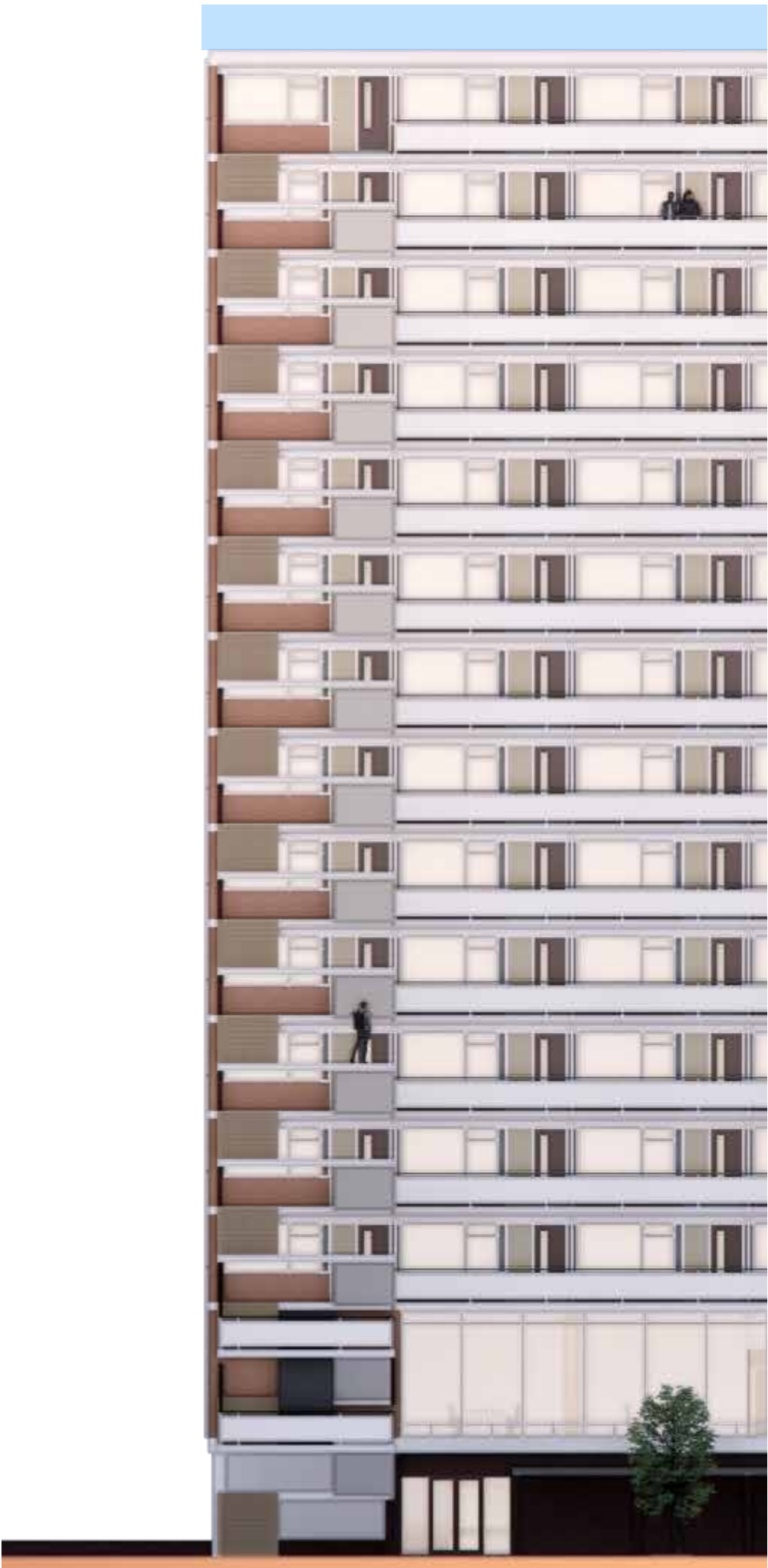
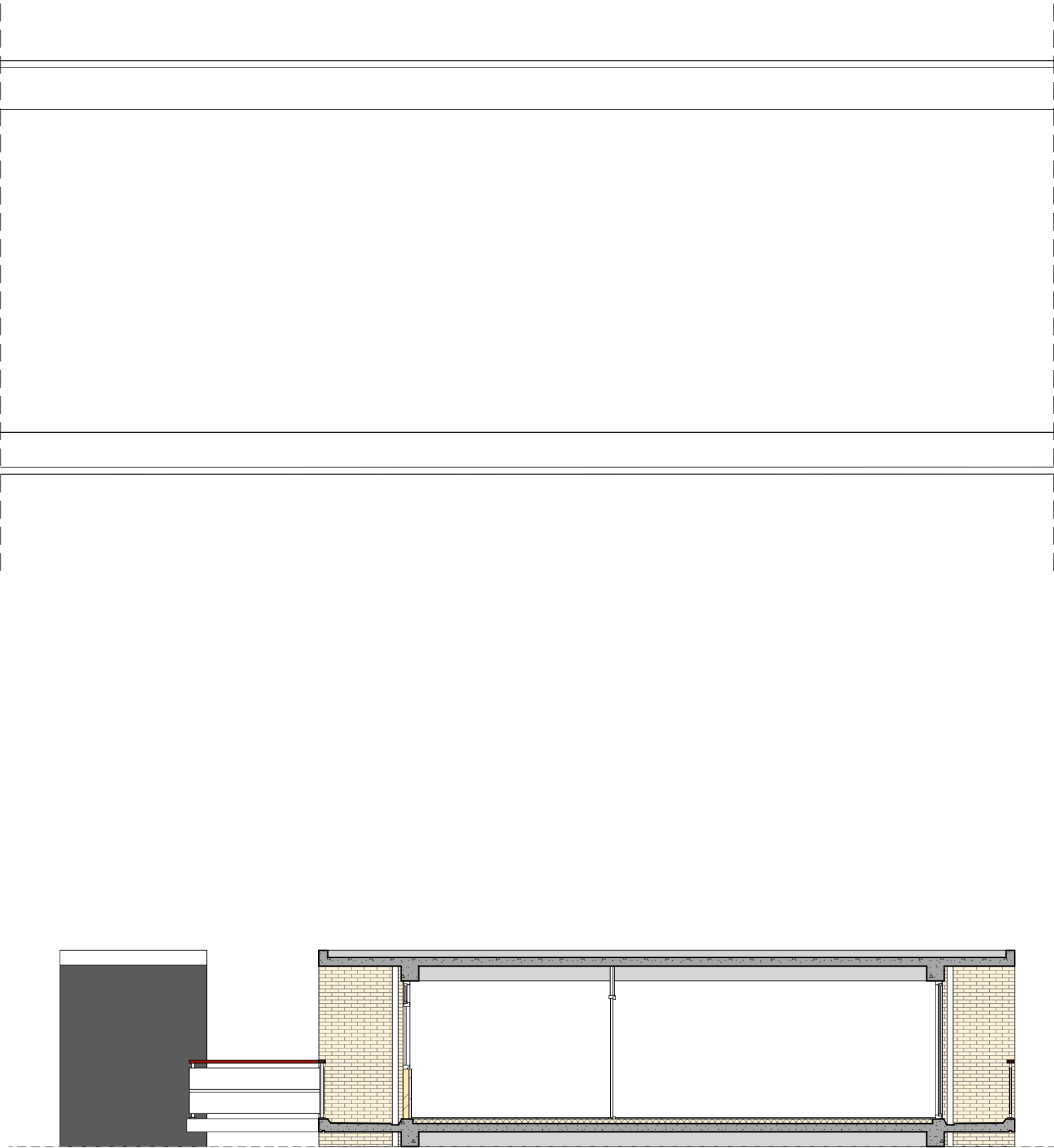
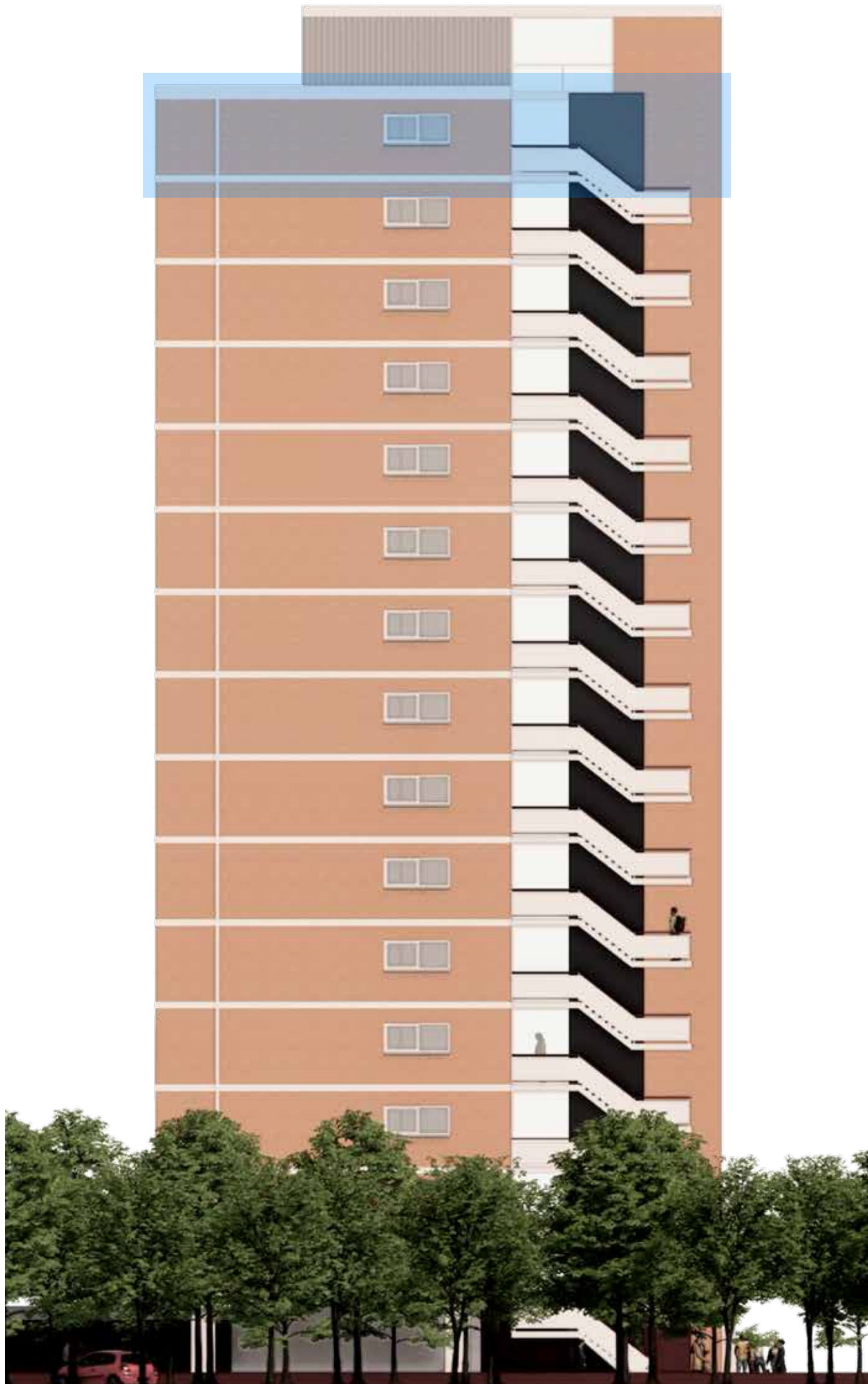
Addition Facades (before)



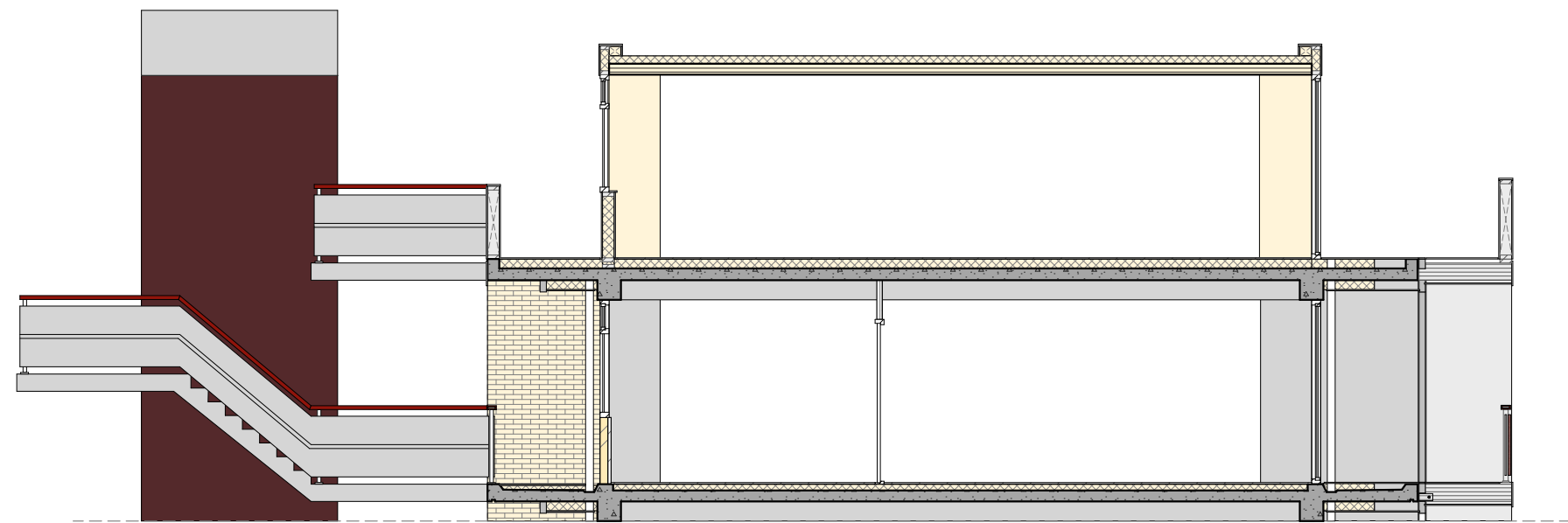
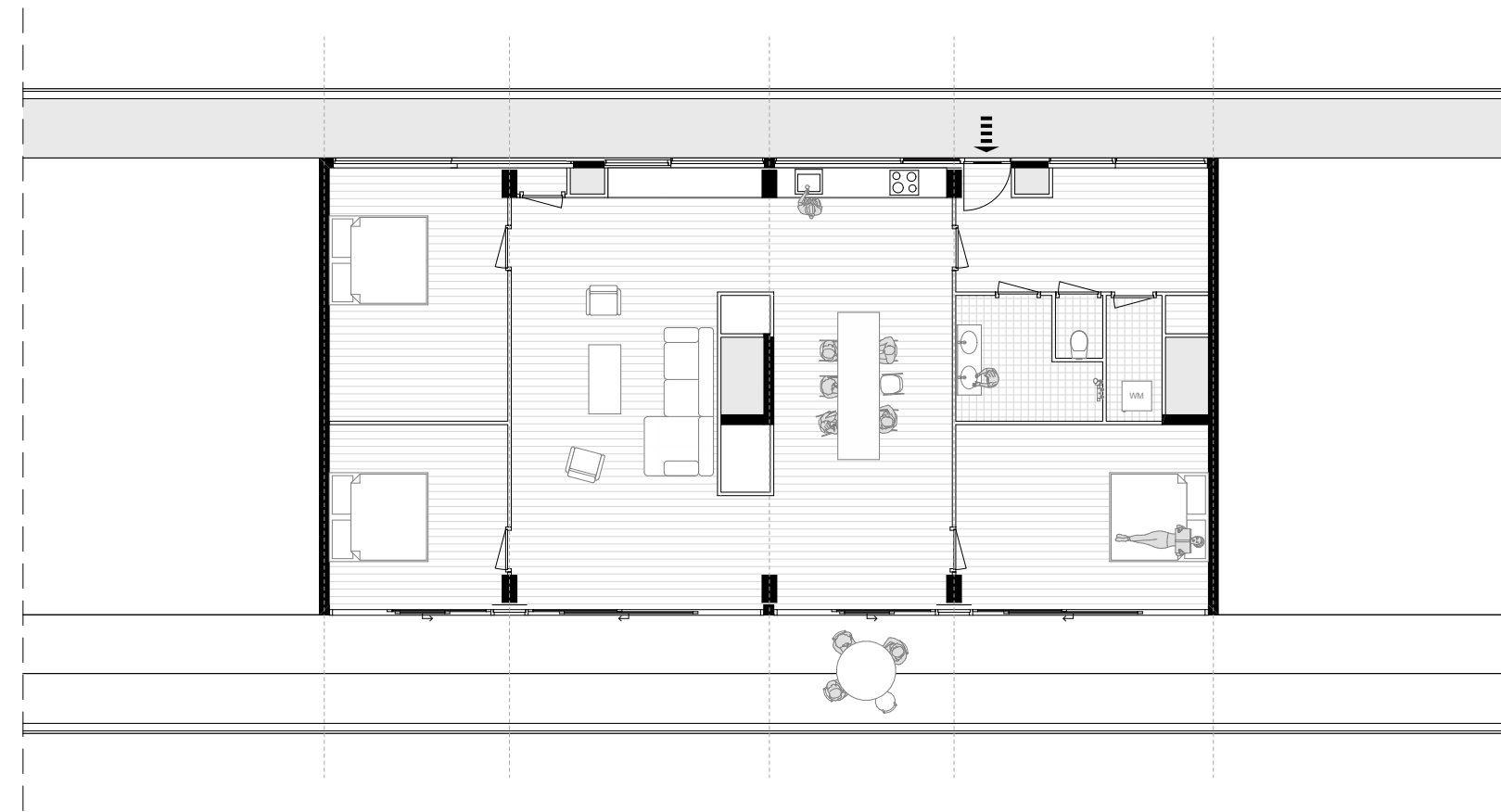
Addition Facades (after)



Addition Penthouses (before)



Addition Penthouses (after)



Douglas Herbert Courtenay Auburn (1916 - 2000)



A collection of 10 geometric abstract oil on board panels.
620 x 620mm

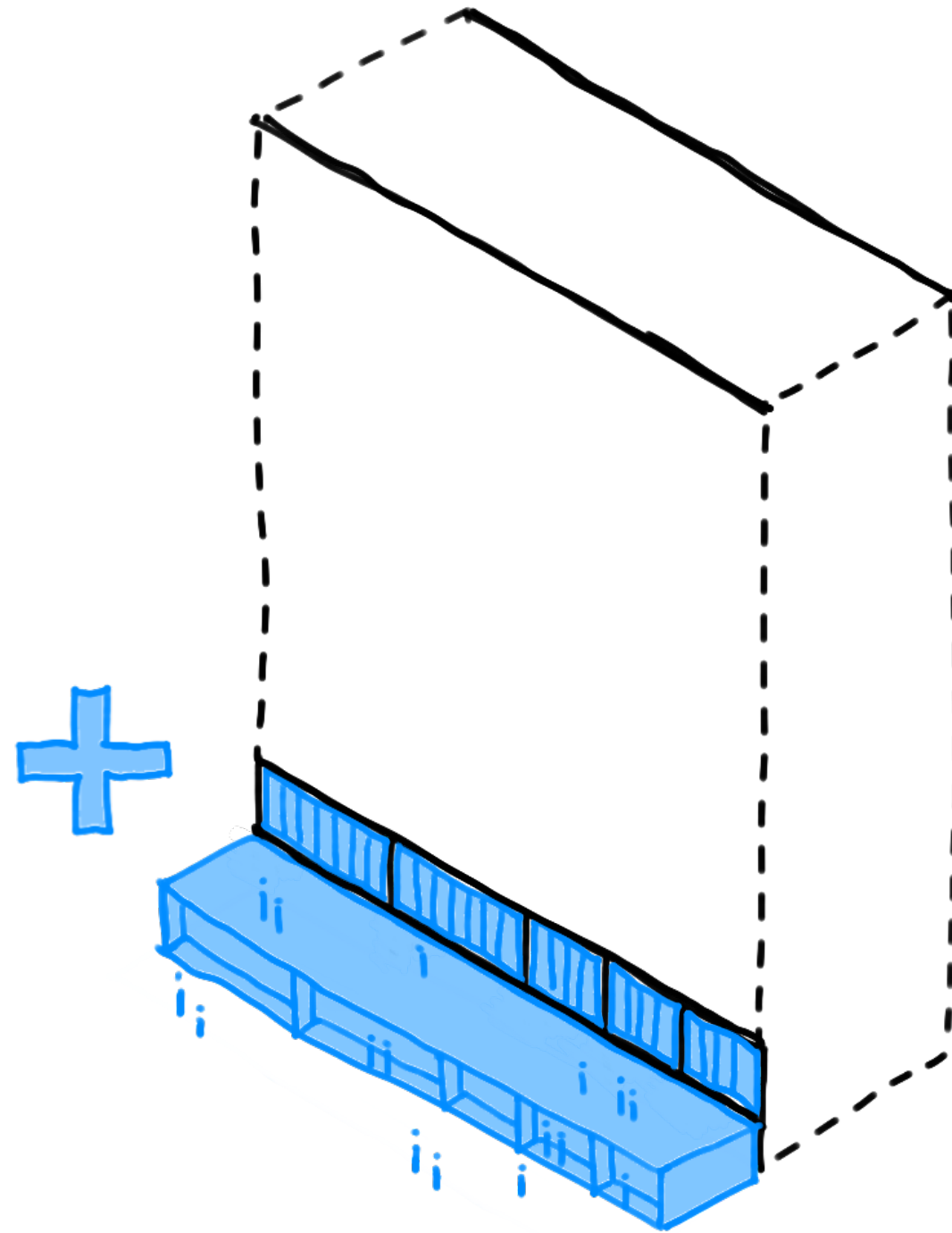




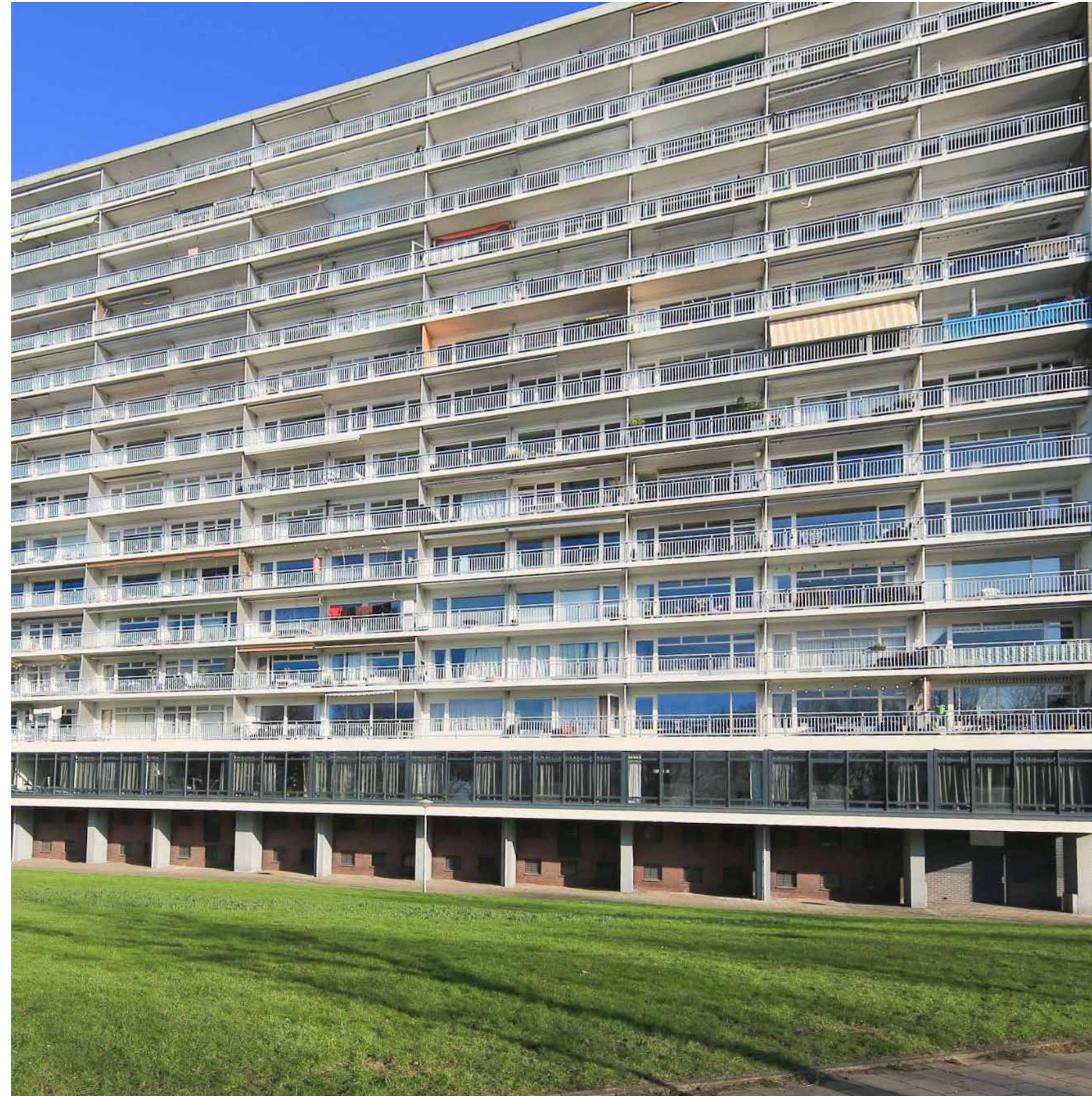




Strategy 4: Inviting



Closed-off Appearance of Groud Floor (west)



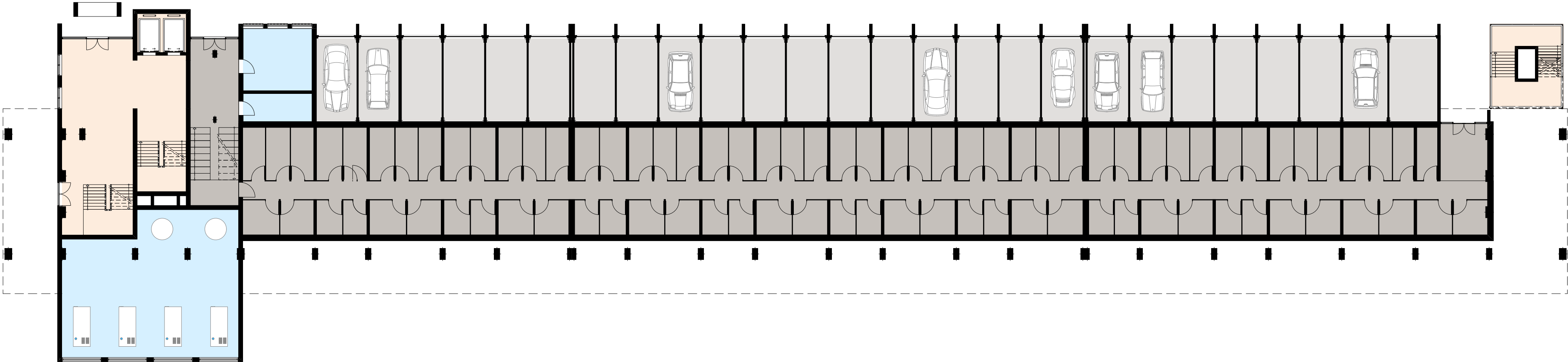
Funda (2024)

Closed-off Appearance of Groud Floor (east)

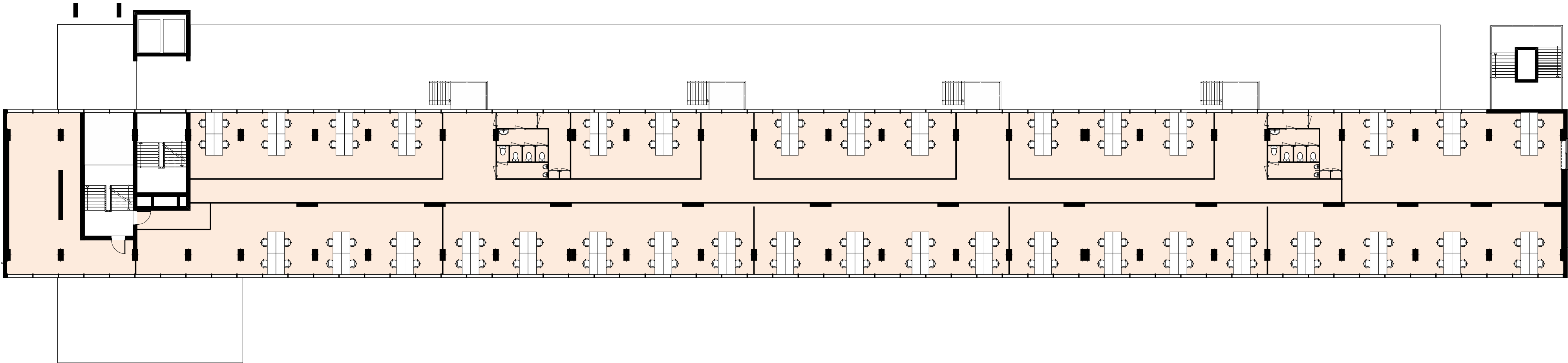


Funda (2024)

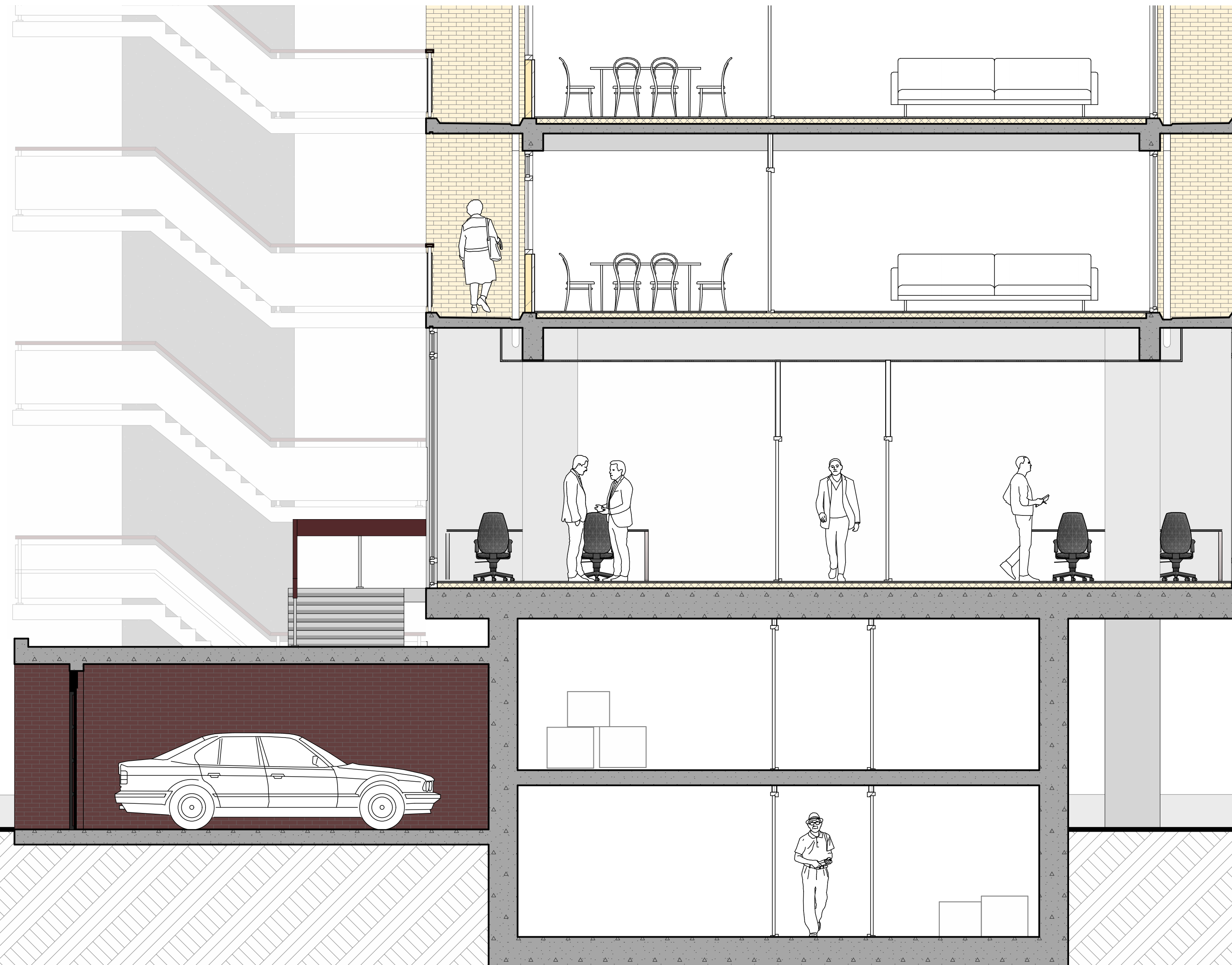
Ground Floor (before)



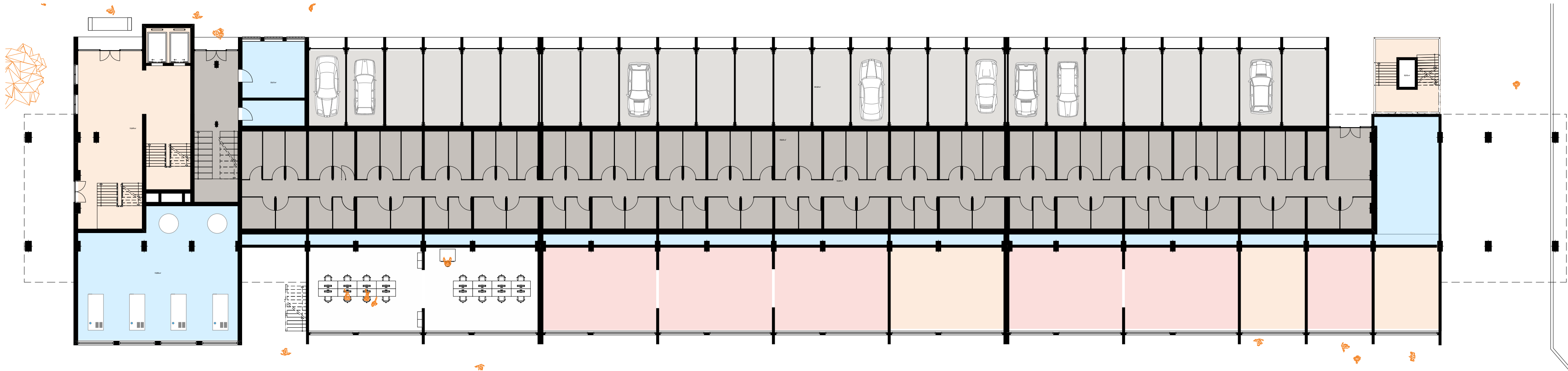
First Floor (before)



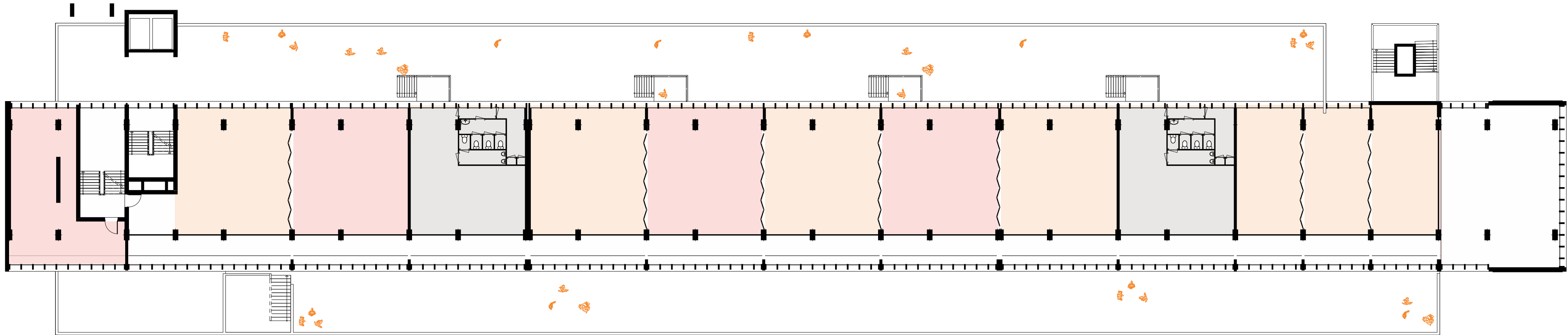
Section (before)



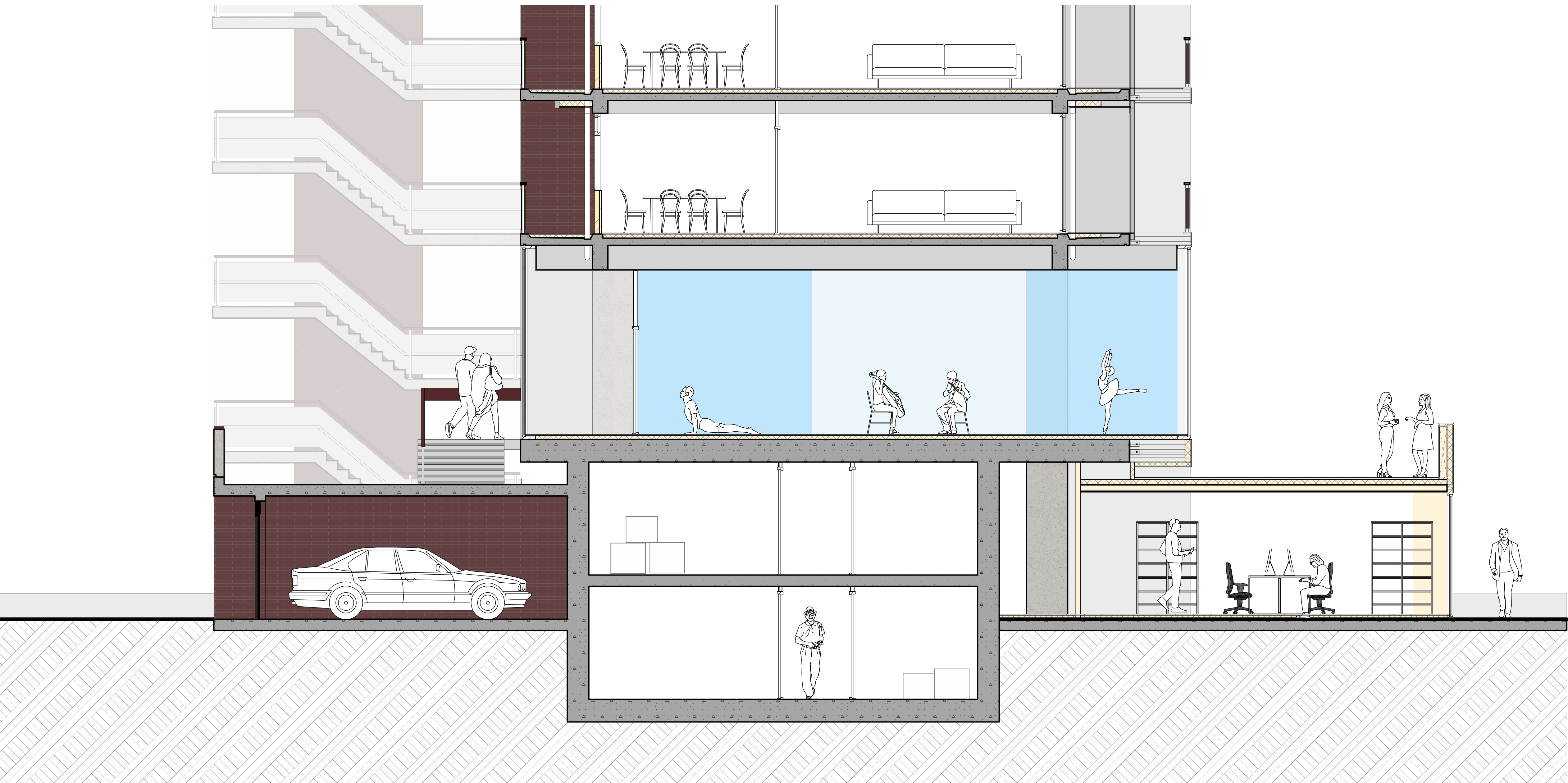
Ground Floor (after)



First Floor (after)



Section (after)







Impression (before)

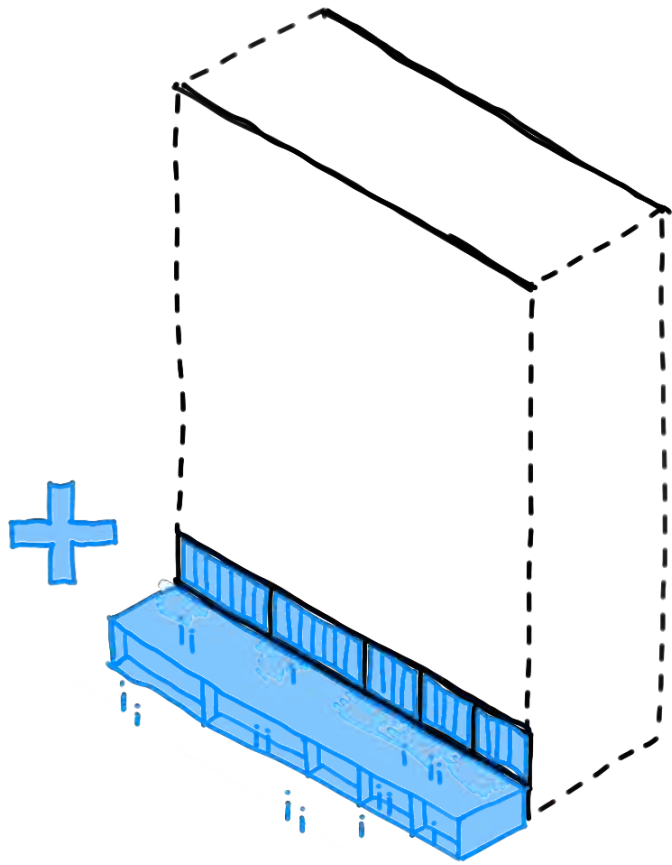
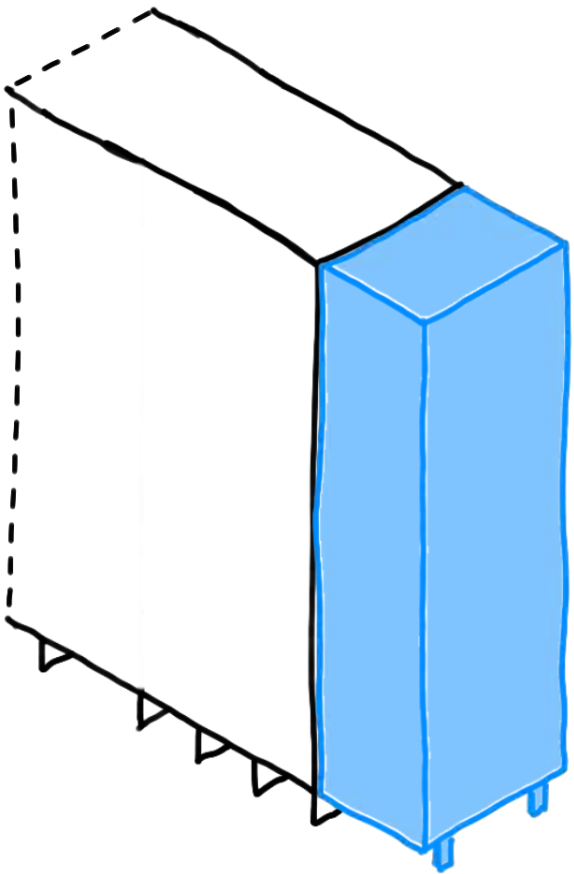
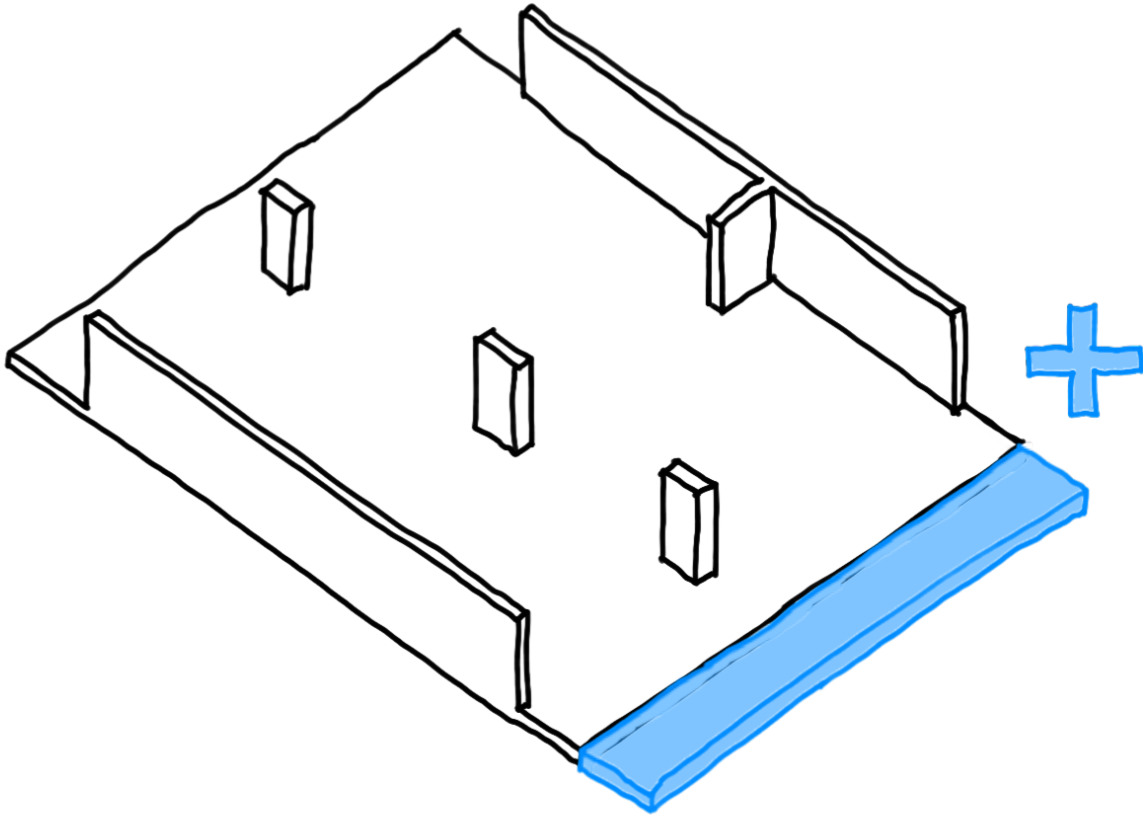
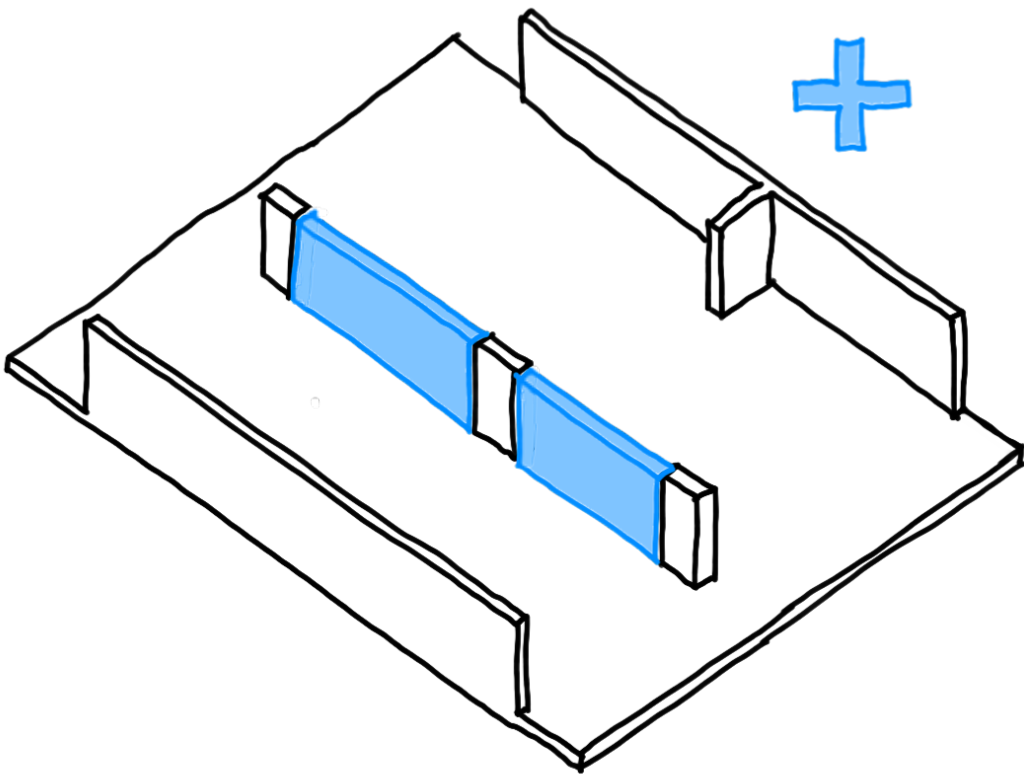


Impression (after)

GIF

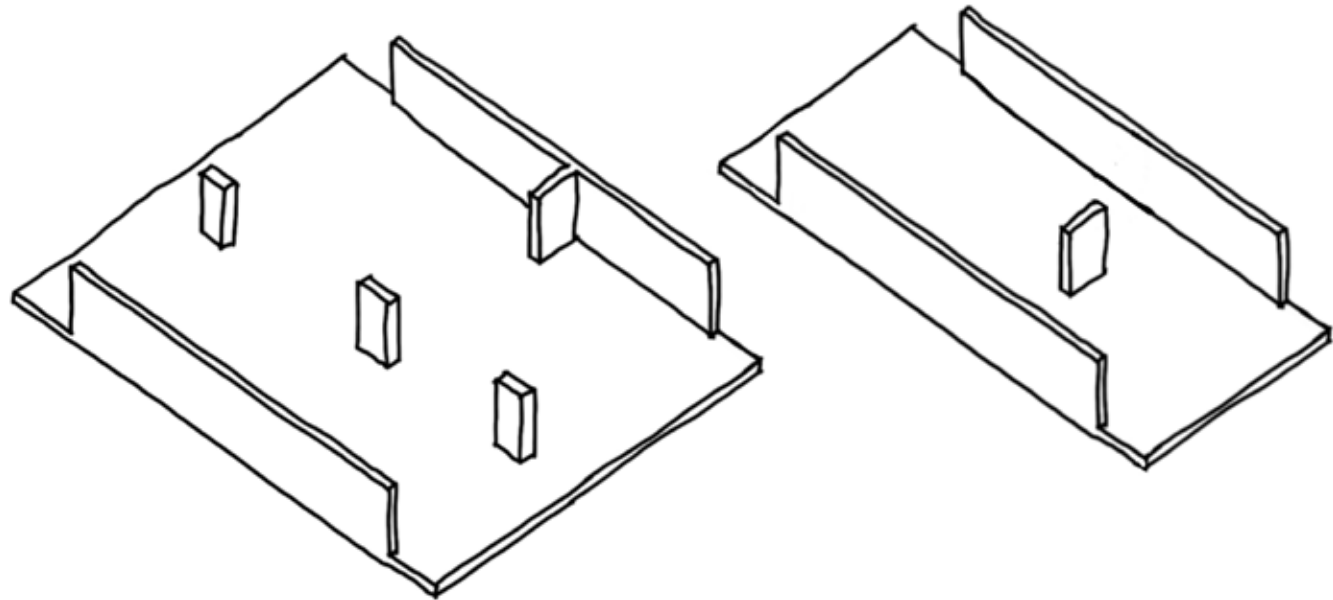
In conclusion:

4 Strategies: Splitting, Extending Addition and Inviting

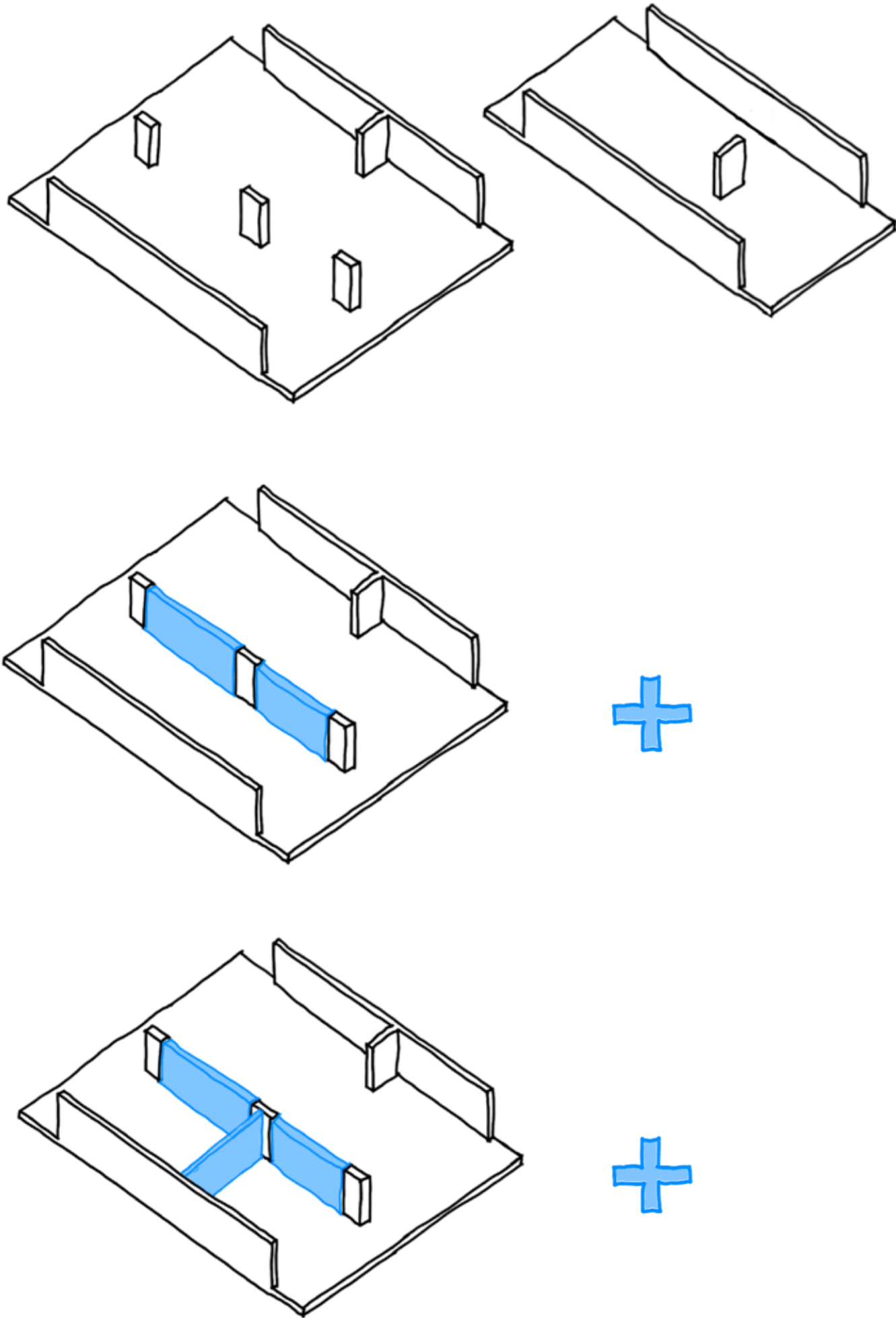


Diversity in Apartment Tupologies

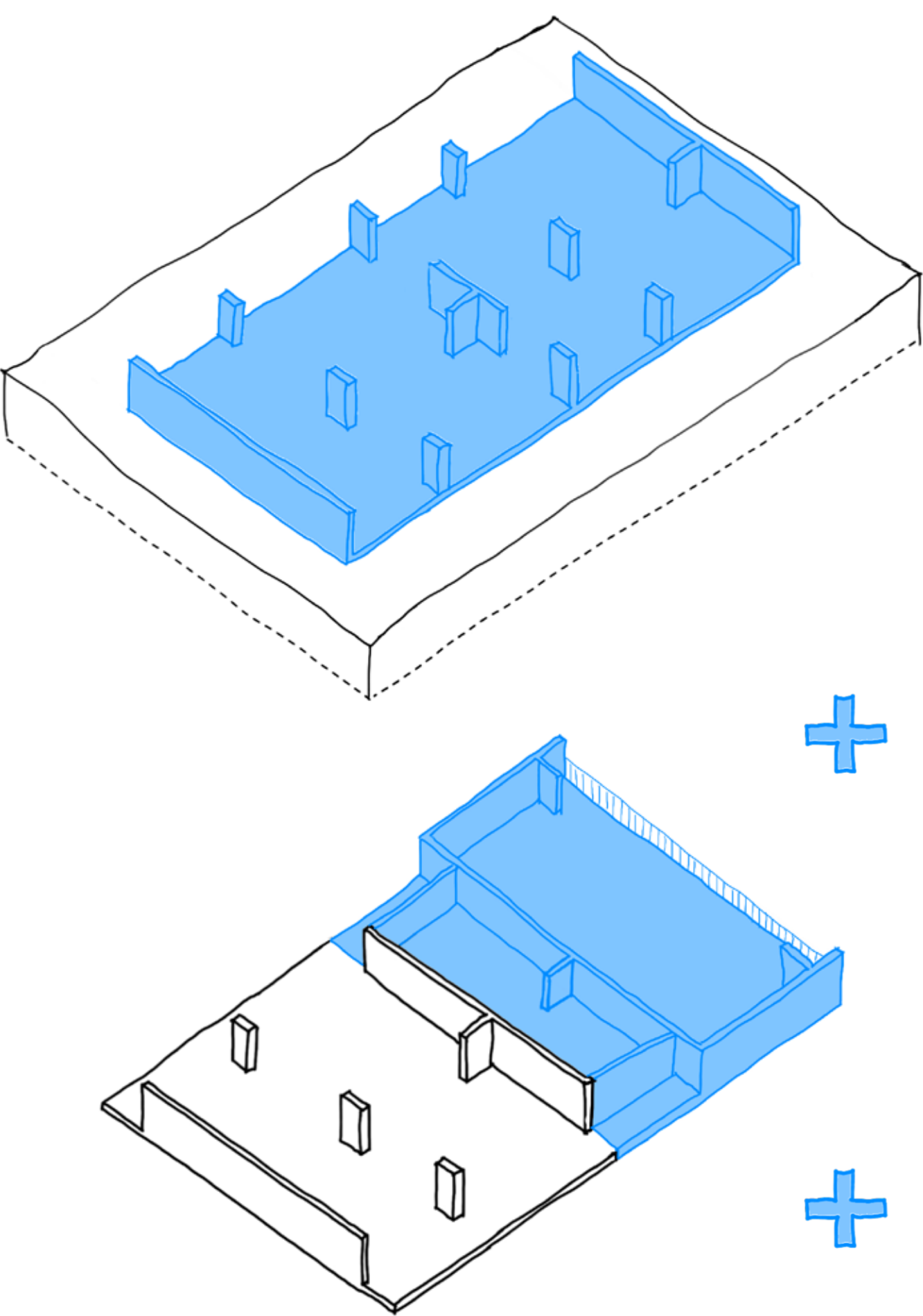
Existing



Adapted



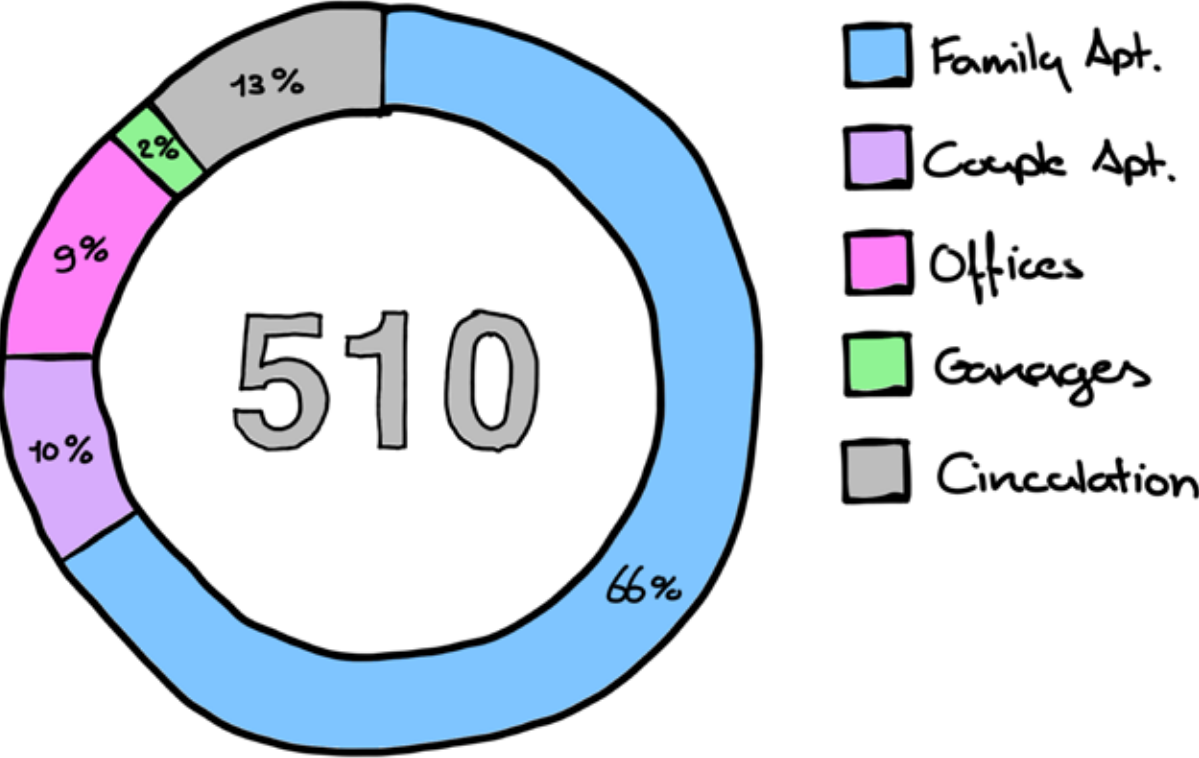
New



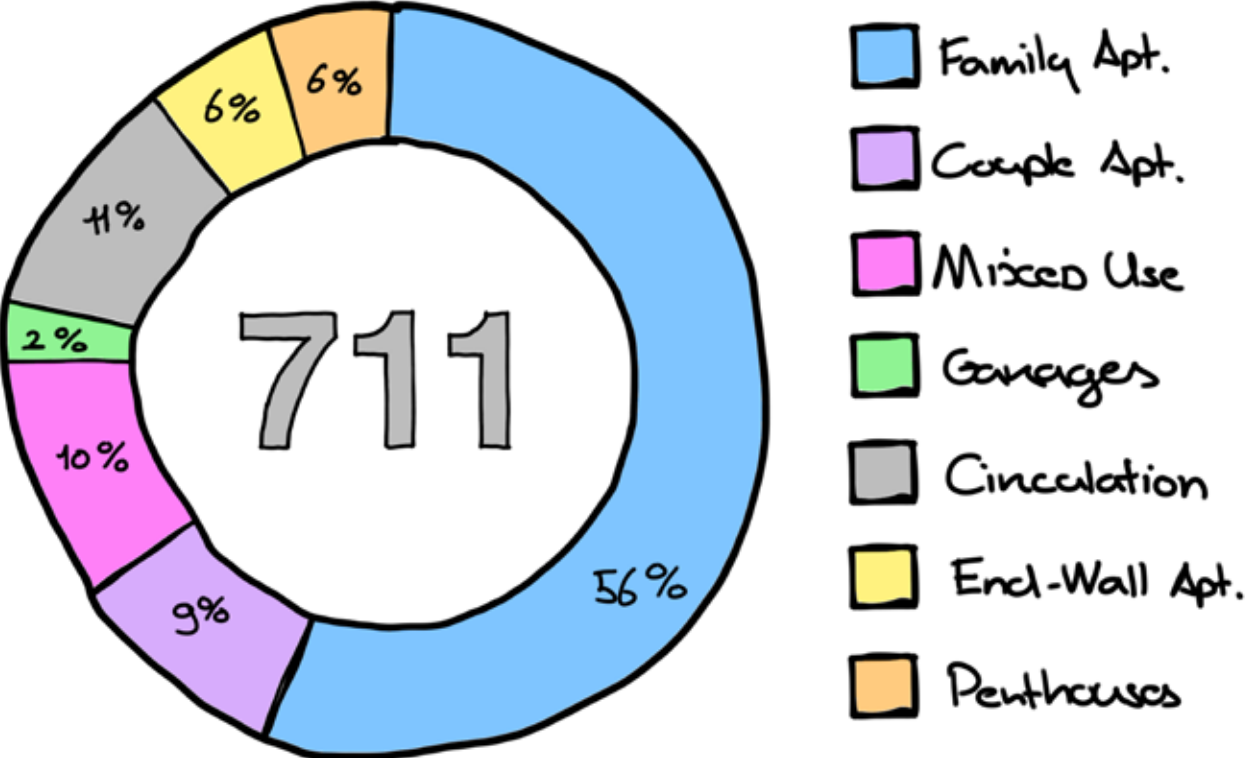
Case Study: Alt Erlaa, Vienna



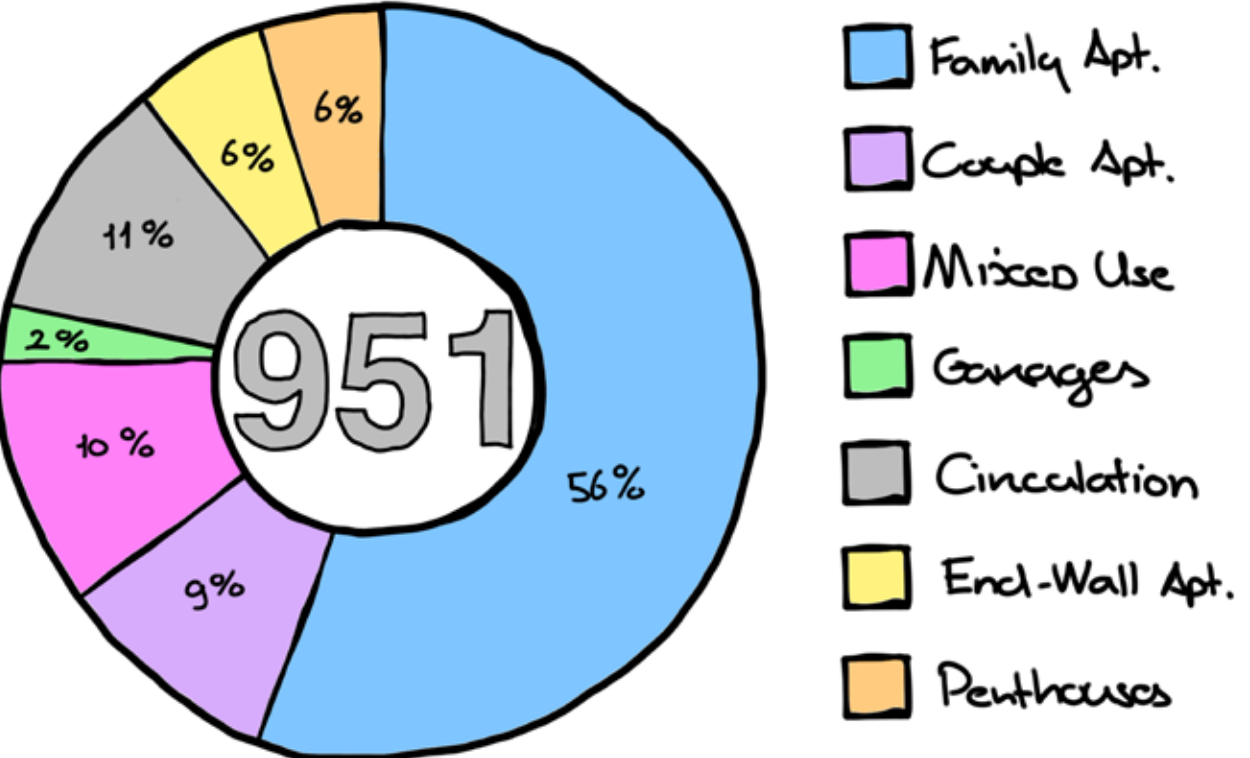
Range of Density



0 %

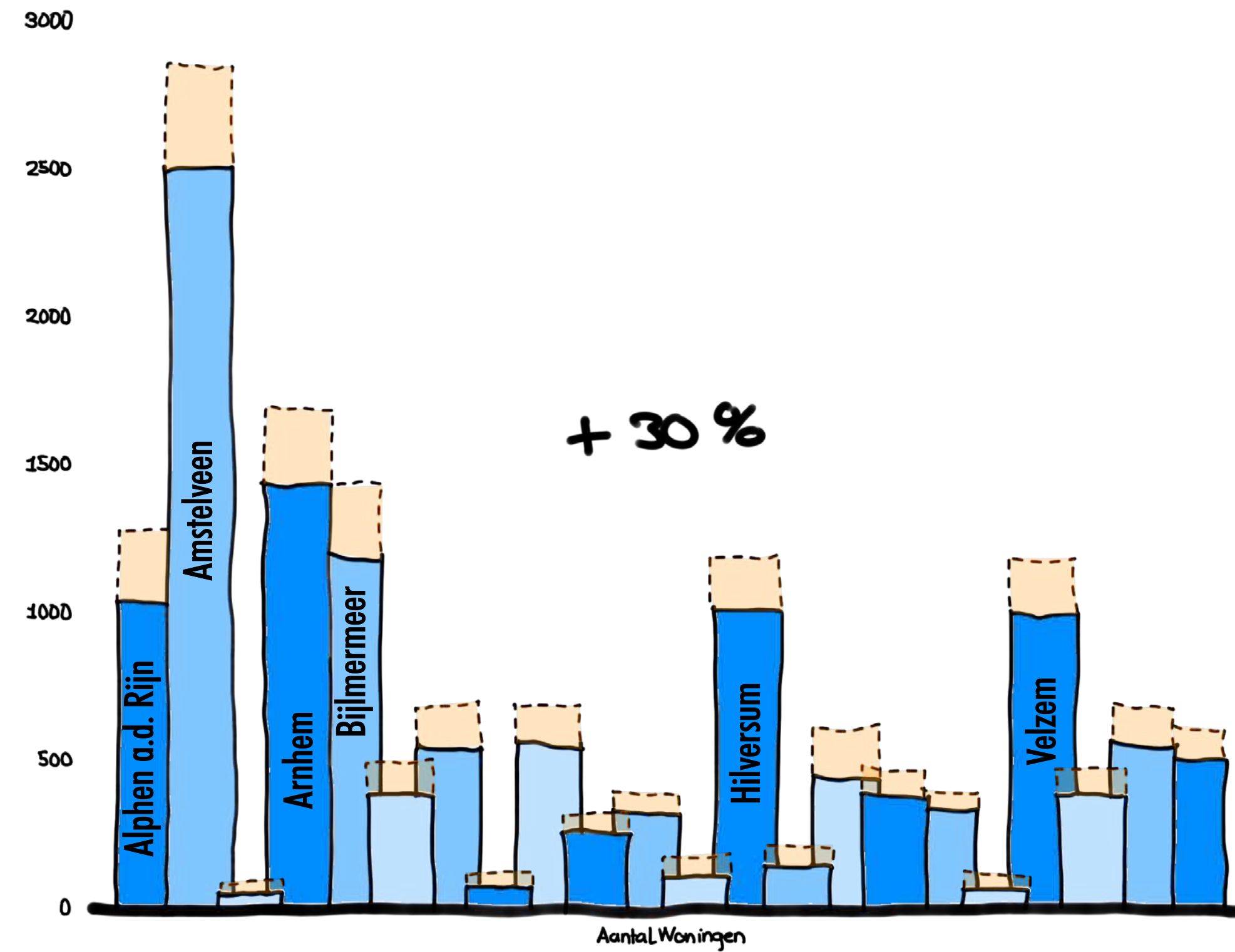


30 %



100 %

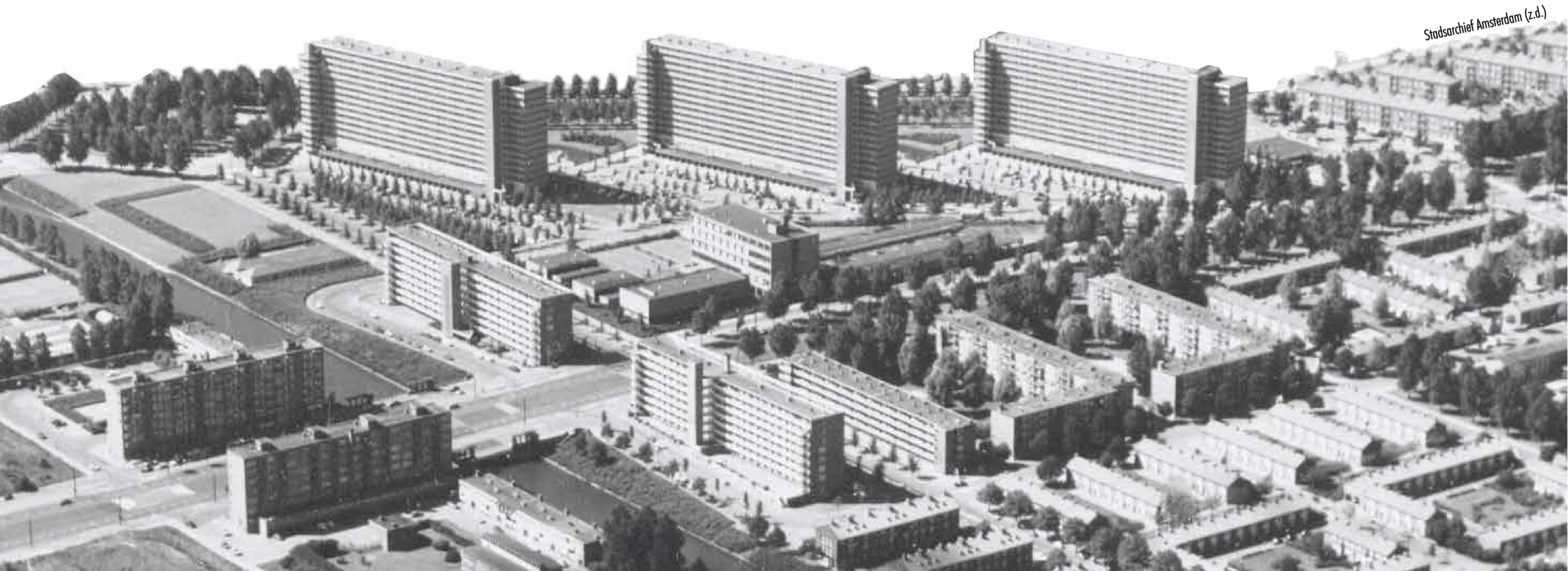
Extrapolating Strategies



13.500 → 18.200

Towards Adaptable Post-War Housing

Architecture that uses change for greater significance.



Stadsarchief Amsterdam (z.d.)



Reflection

Reflection

How did your graduation project influence you personally, as a future architect?

Research & Design

Research Methods (Funda)

Academic Attitude
(perseverance, self reflection and working hard)

Thank
you!

