THE NATURE INCLU/IVE CITY

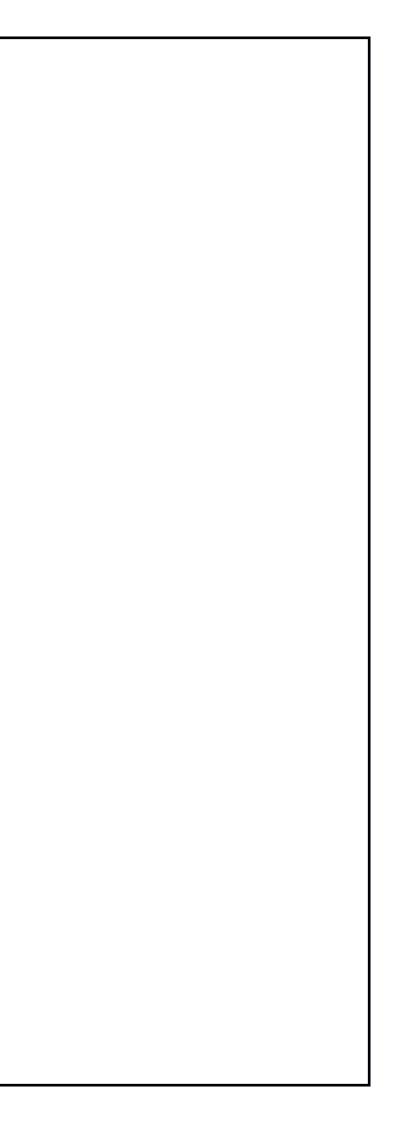


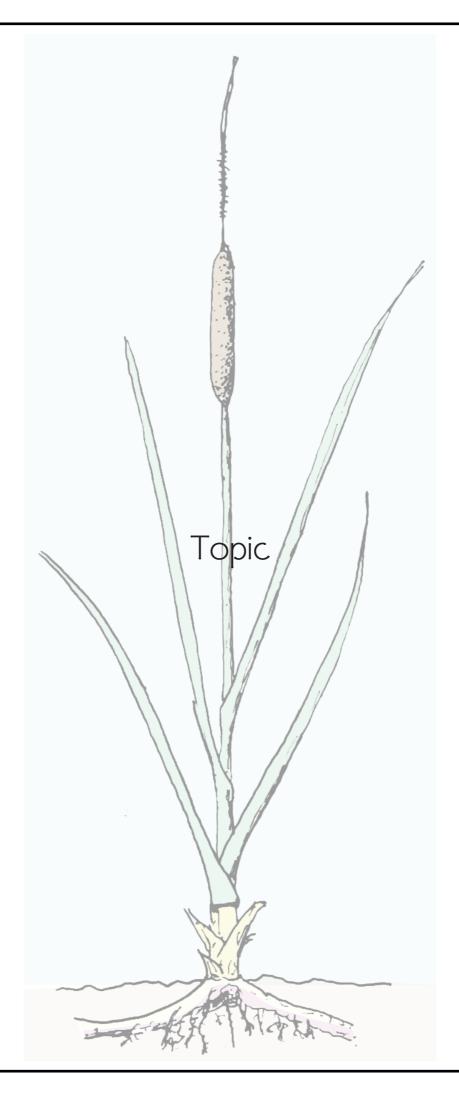
P5 Presentation Coen Abels 11-03-2022

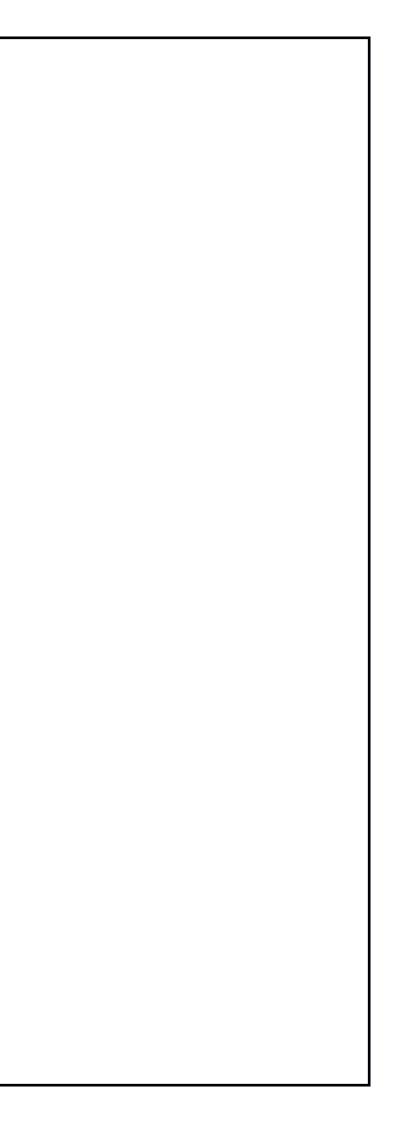
Dutch housing graduation studio T. Kupers, F. Adema, P. van der Putt

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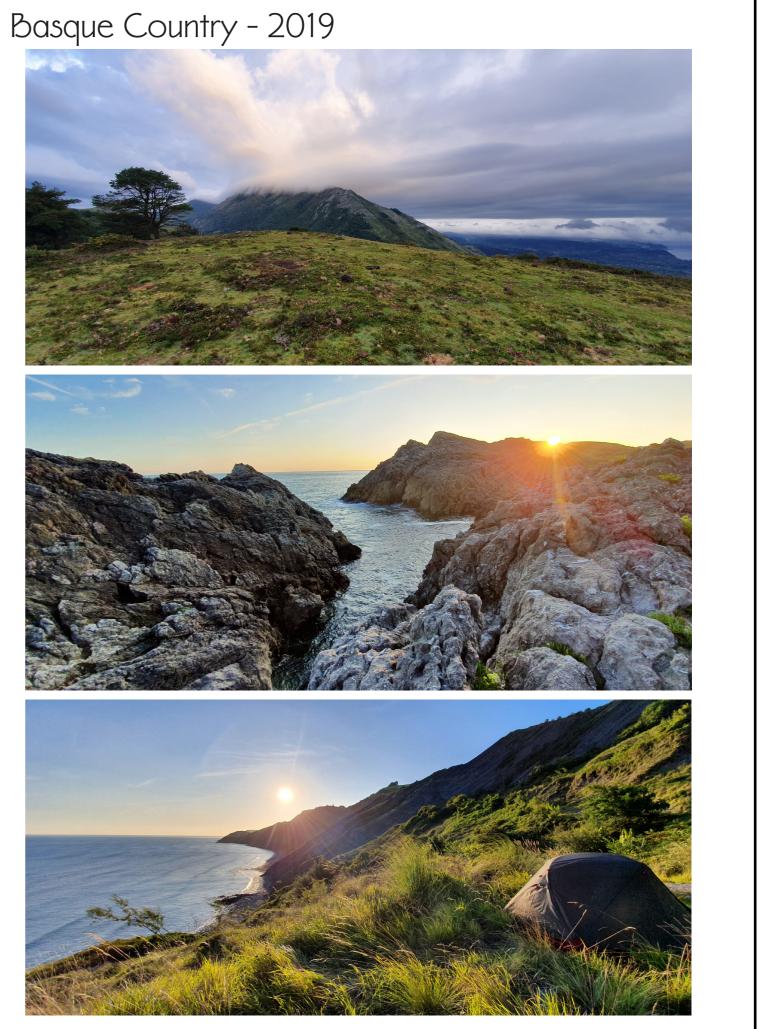


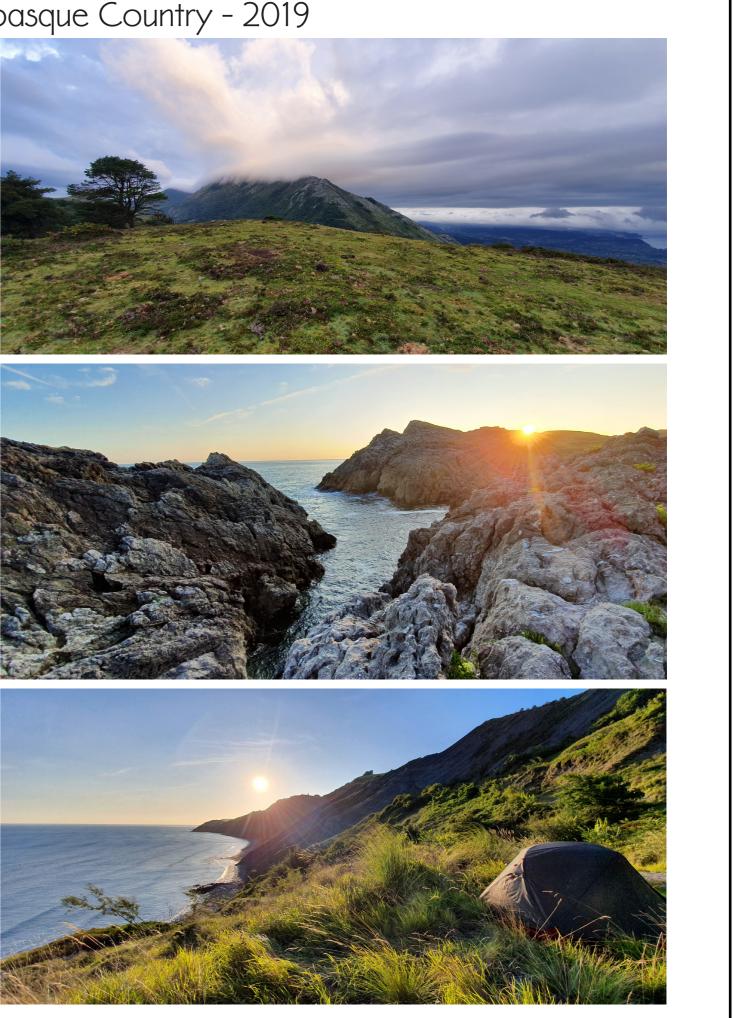
Jummer of Inspiration

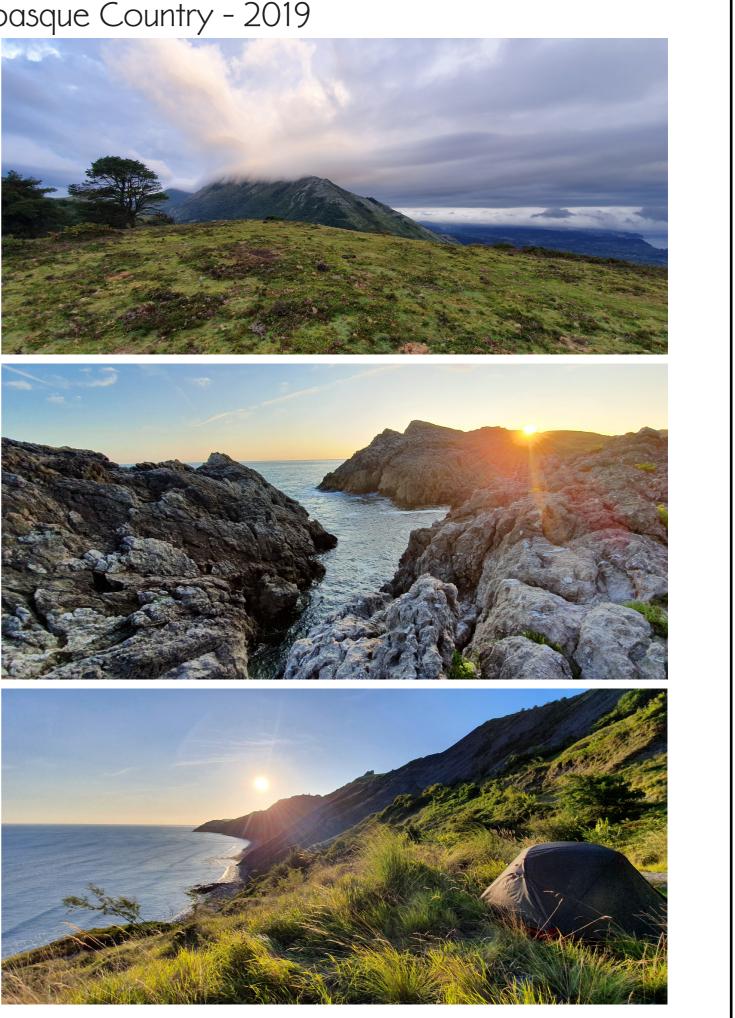












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TOPIC AND RELEVANCE

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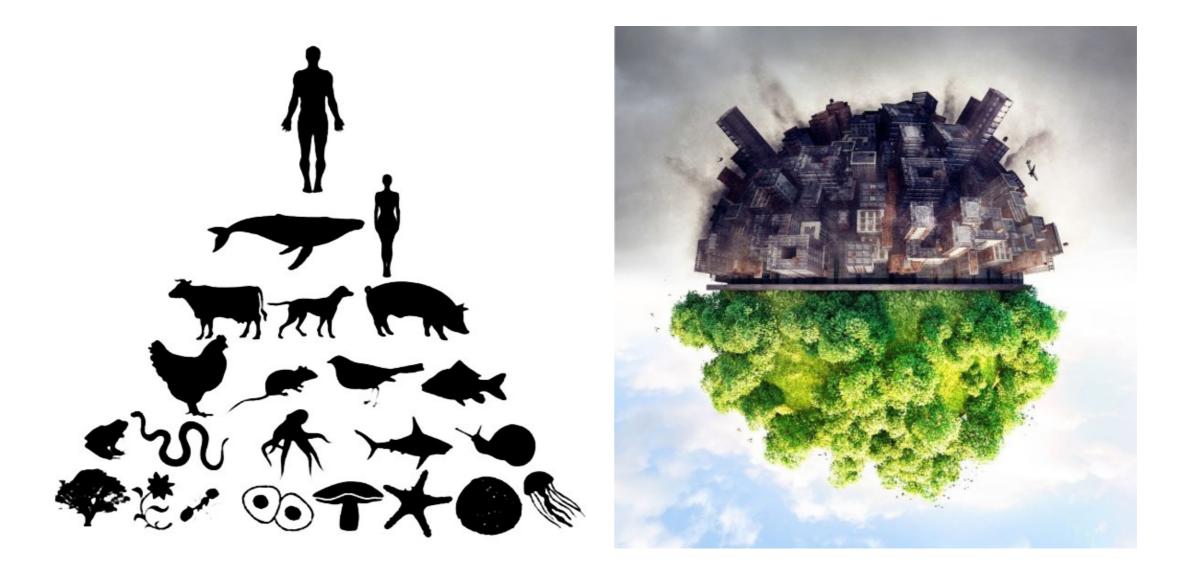
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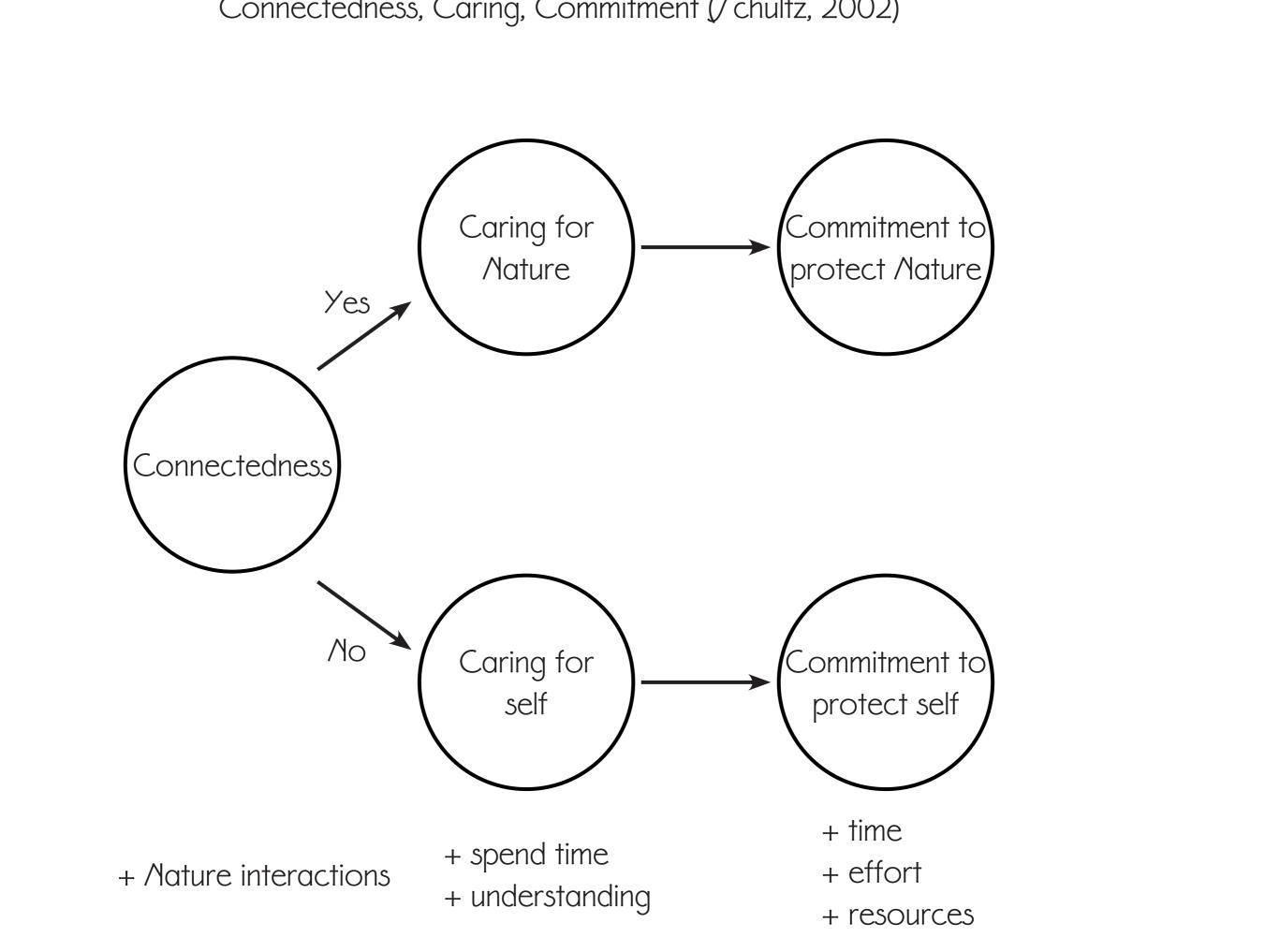
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A Nature - Human Jeparation





Connectedness, Caring, Commitment (/chultz, 2002)



Design Assignment

How to design a residential building for young urban families in a highly urban environment that makes nature an inherent part of the architecture by using a holistic human-nature relationship as a guiding theme

How to design a residential building for young urban families in a highly urban environment that makes nature an inherent part of the architecture by using a holistic human-nature relationship as a guiding theme

Nature:

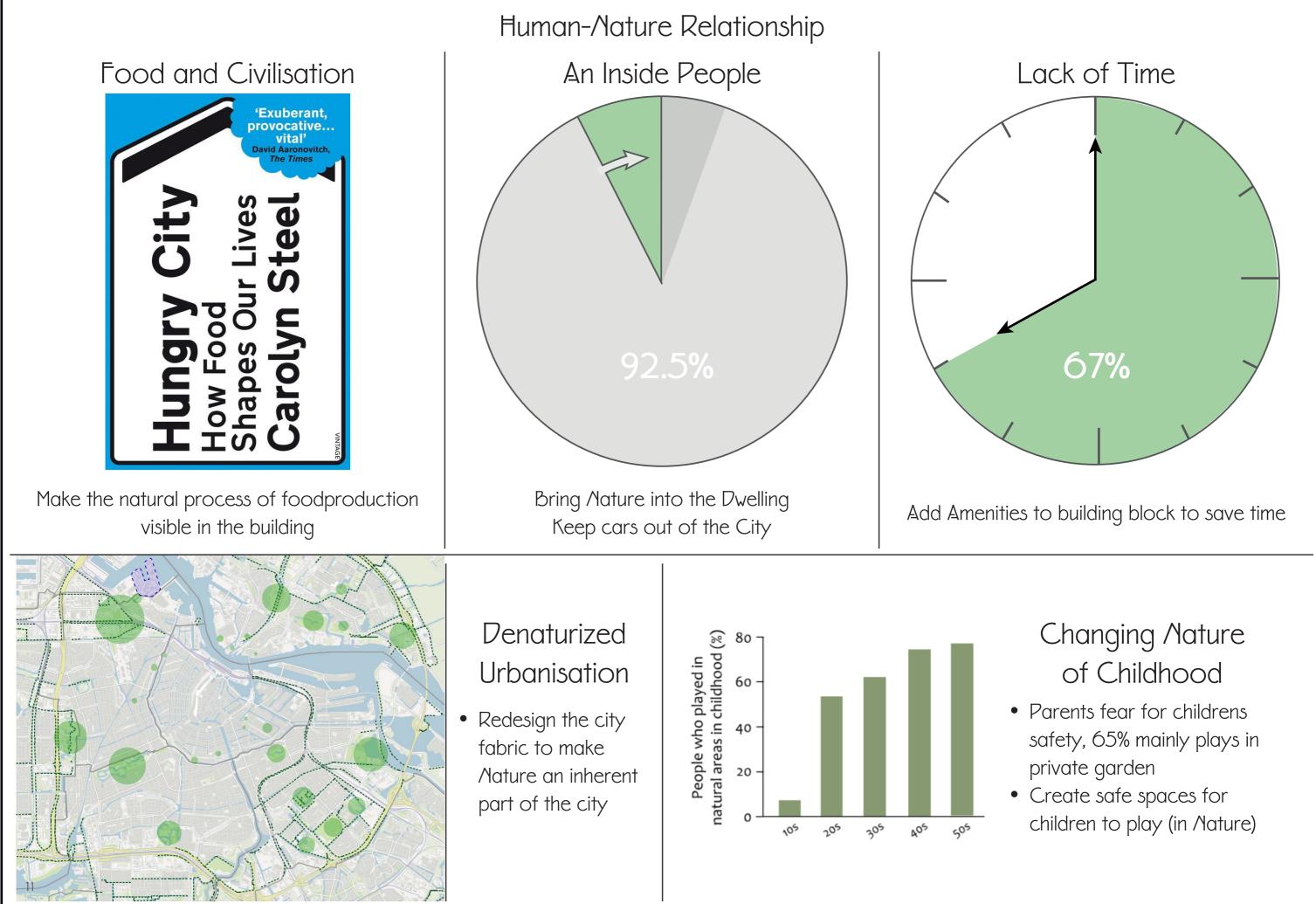
"the cosmic reality we can perceive, to the extent that it originated completely or partially without human interference." (Westhoff, 1984)

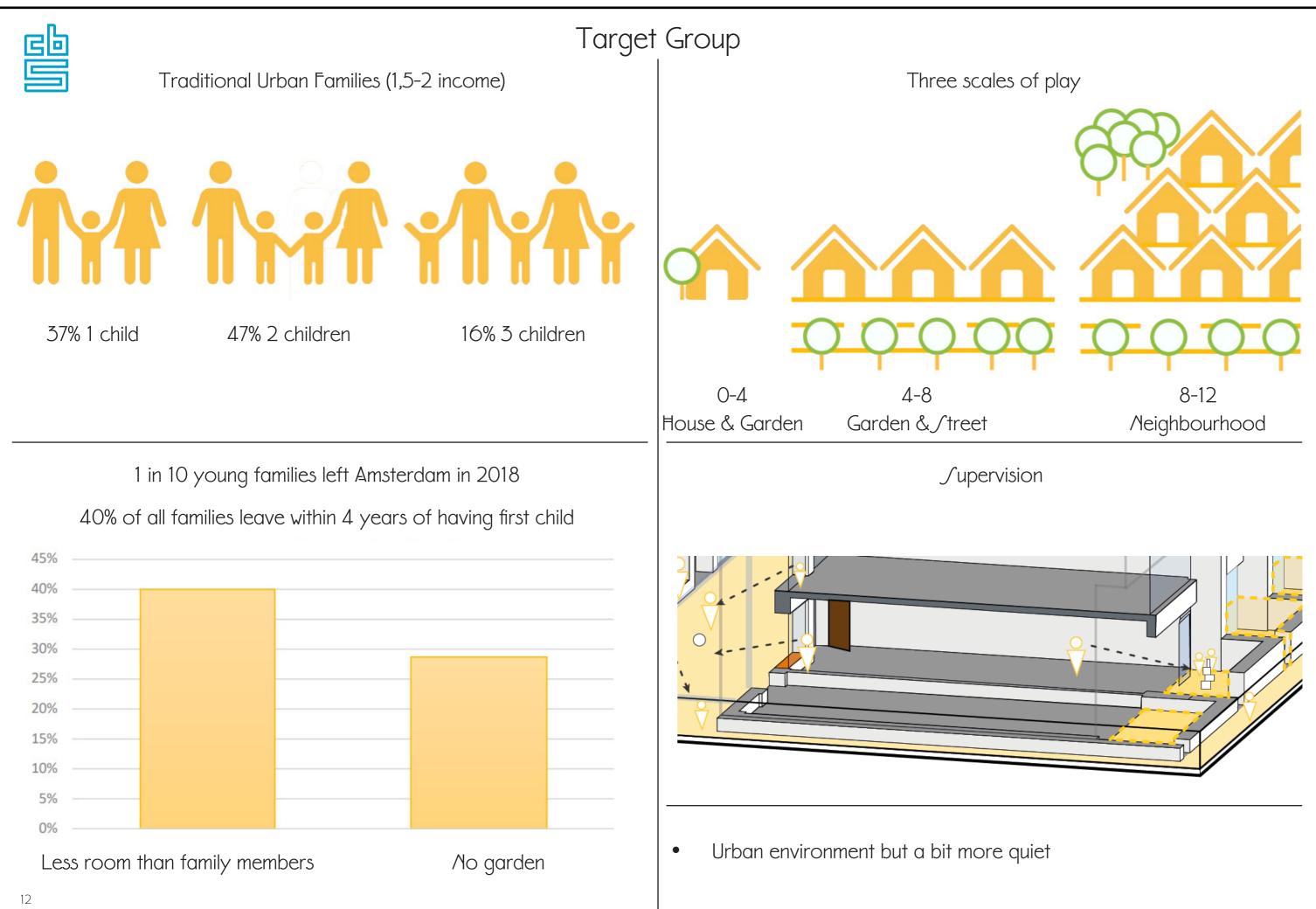
A Holistic human-nature relationship:

A relationship wherein mankind understands the interdependance of the living world and their place in the bigger picture of the earth biosphere. (Own Definition)



10%





Make Nature an inherent part of the architecture Organic Architecture FLW

IDEA

In Nature and life we see that behind each great design there is a great idea at work - unity through idea

TRUCTURAL CONTINUITY

Almost nothing in Nature is fabricated by piling one element on top of another

HARMONY WITH THE ENVIRONMENT

A design should pay respect to and be formed by features of its site

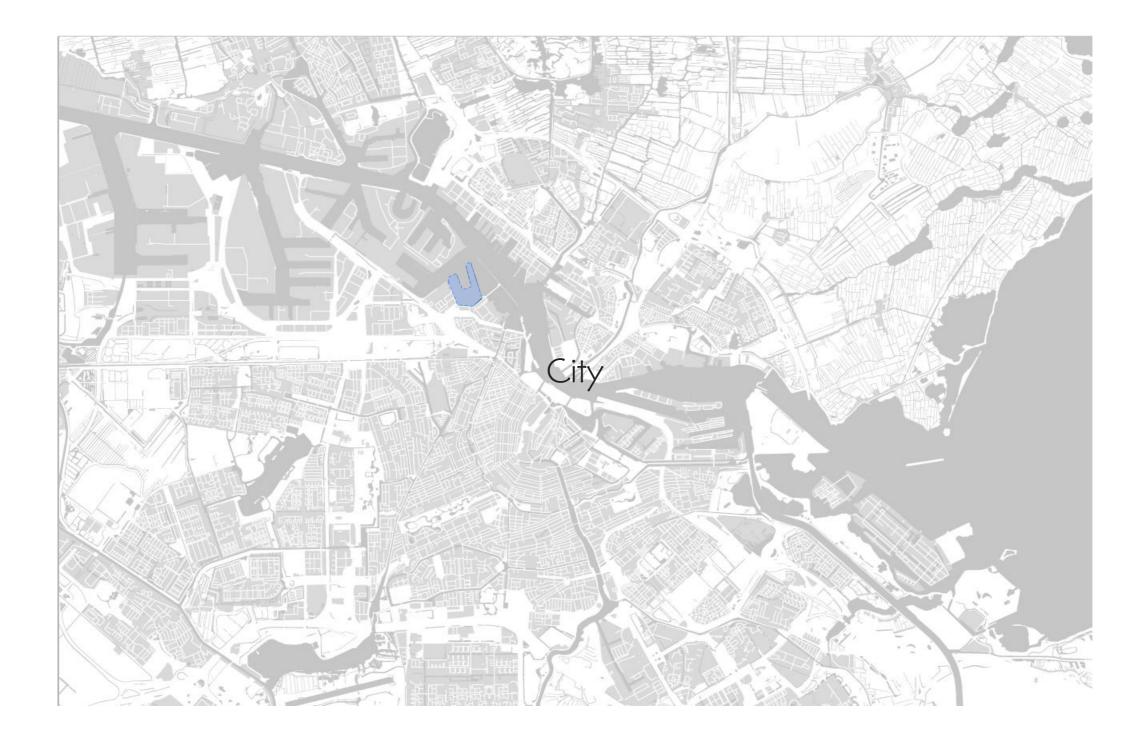
Horizontal lines acknowledge gravity and relate buildings to the plane of the earth

HUMA/IITY

Relate to the human size and shape

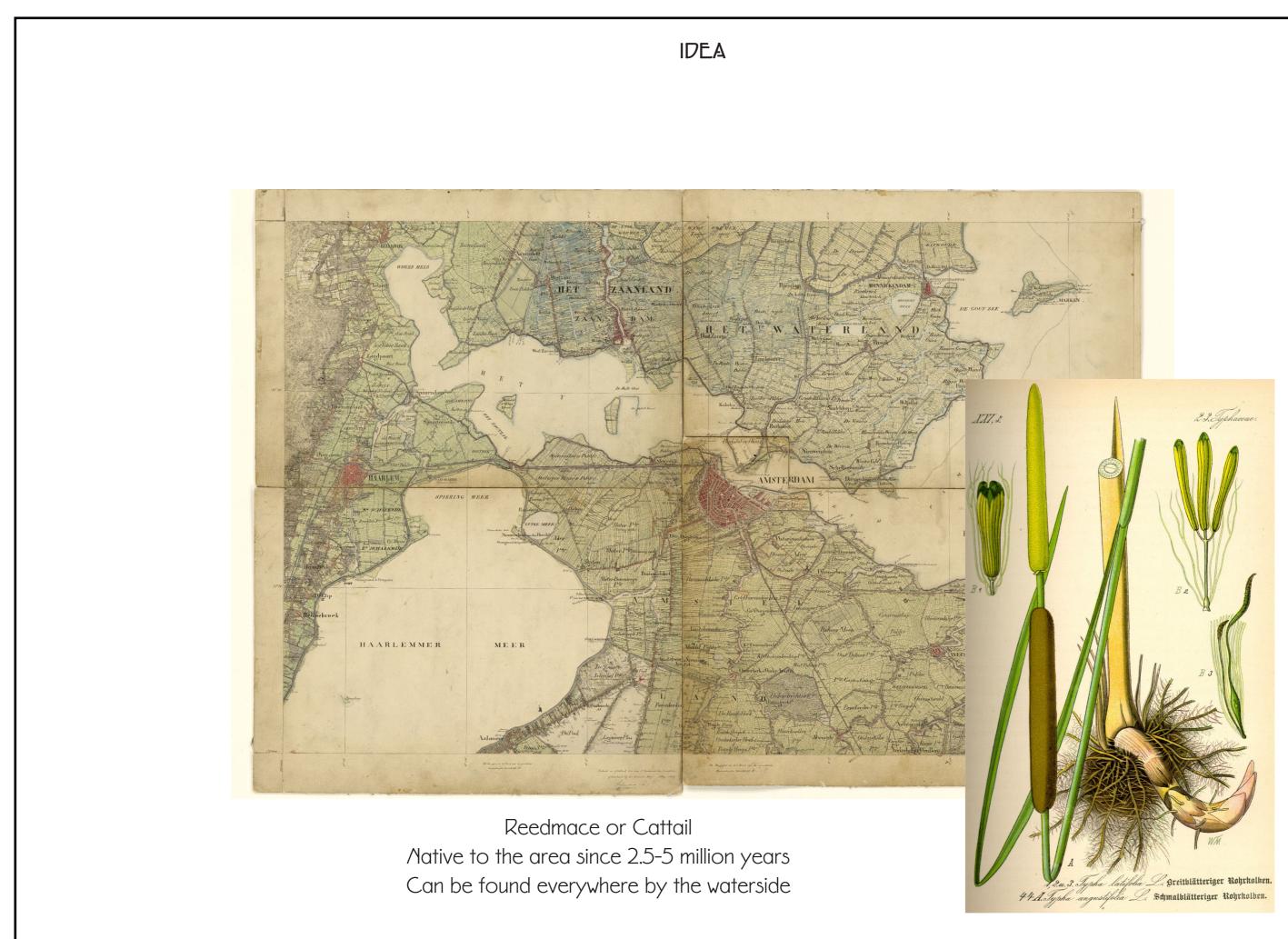
DI/COVERY OF / PACE

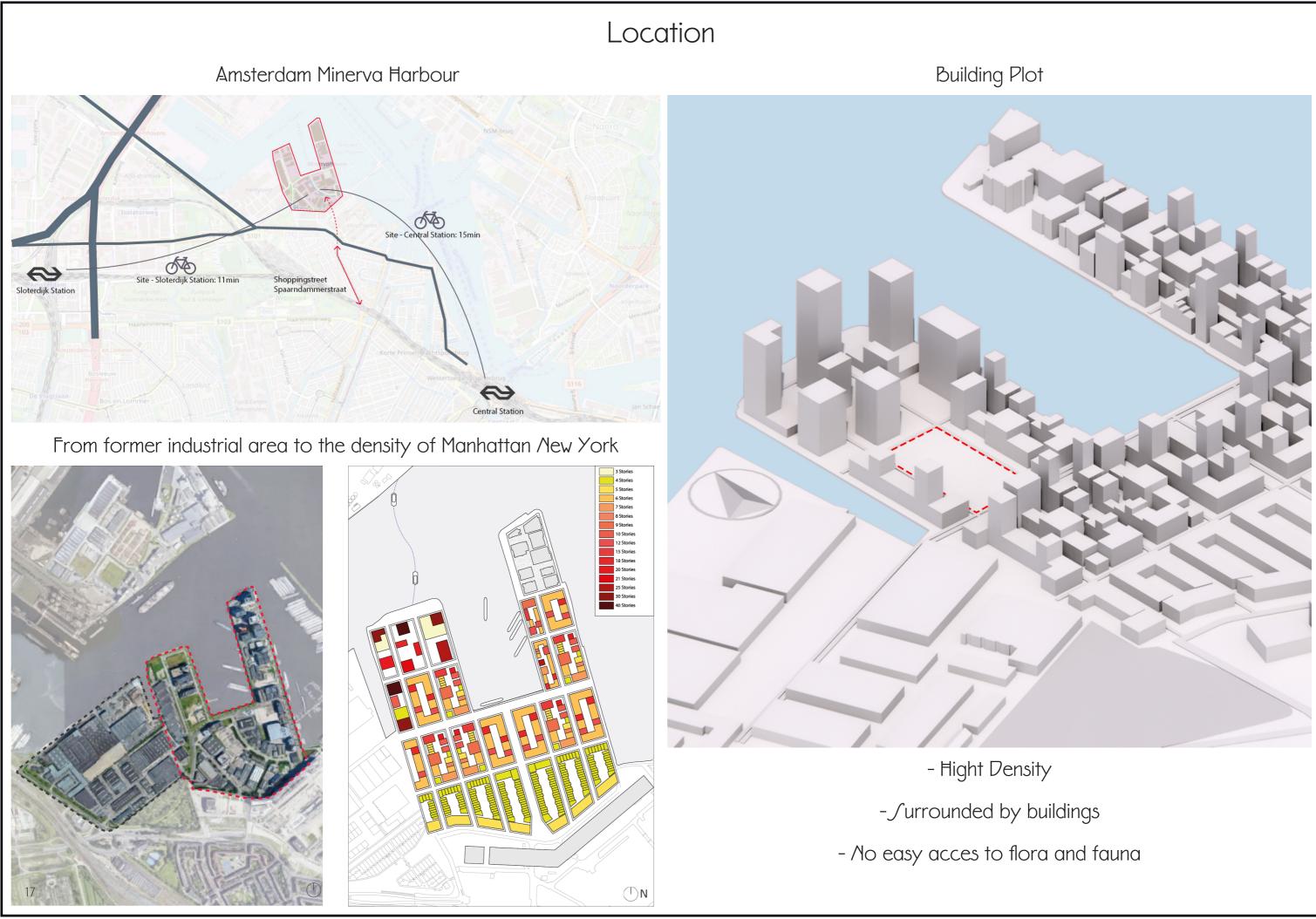
A continuous flow of space - A space should seldom be seen in its entirity











Location

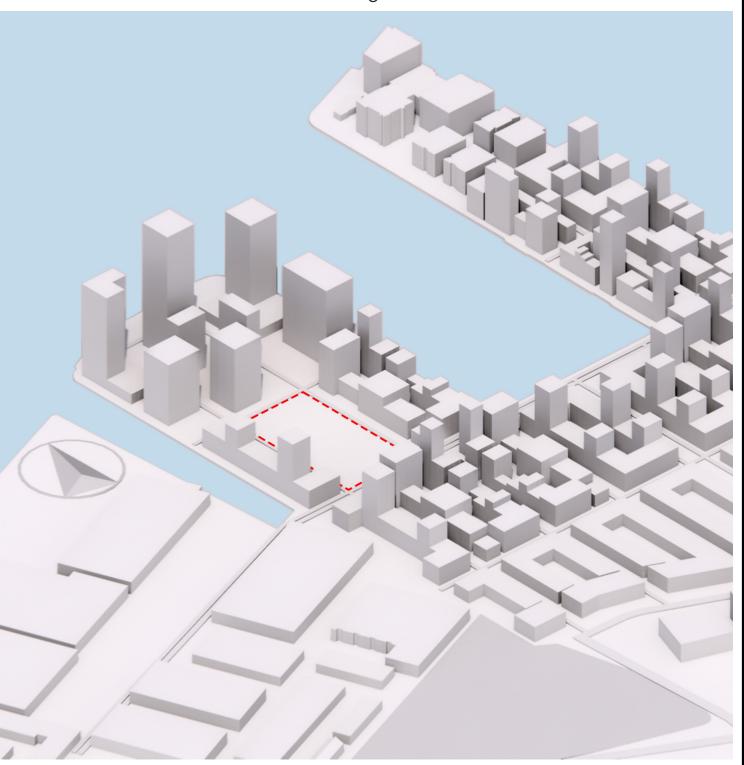
Manhattan New York



From former industrial area to the density of Manhattan New York

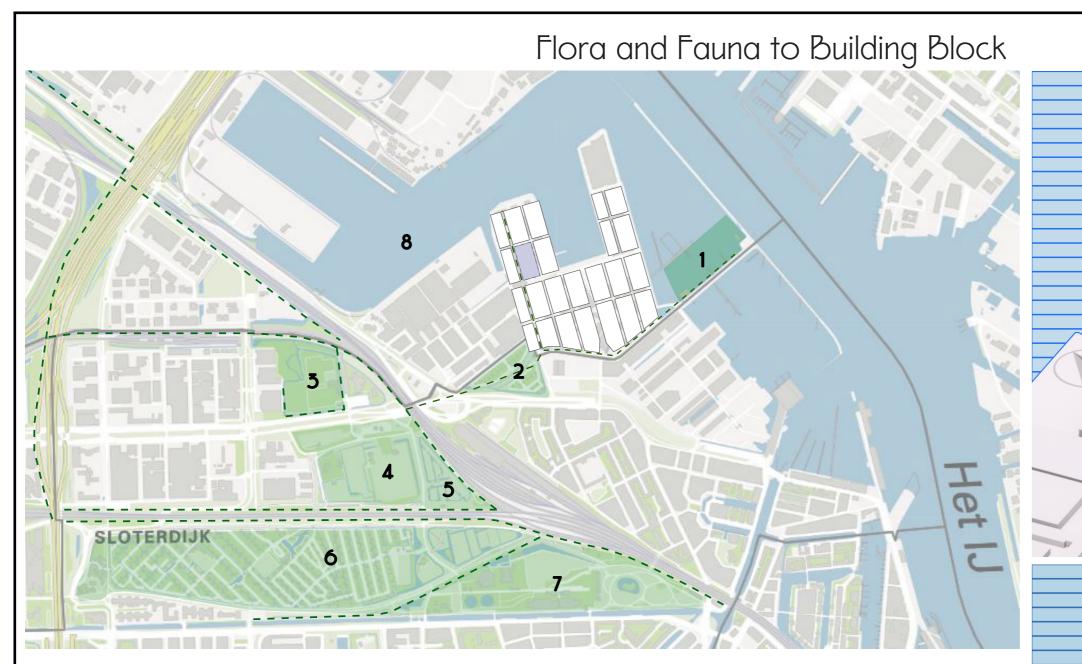






- Hight Density
- - \int urrounded by buildings
- No easy acces to flora and fauna

Building Plot



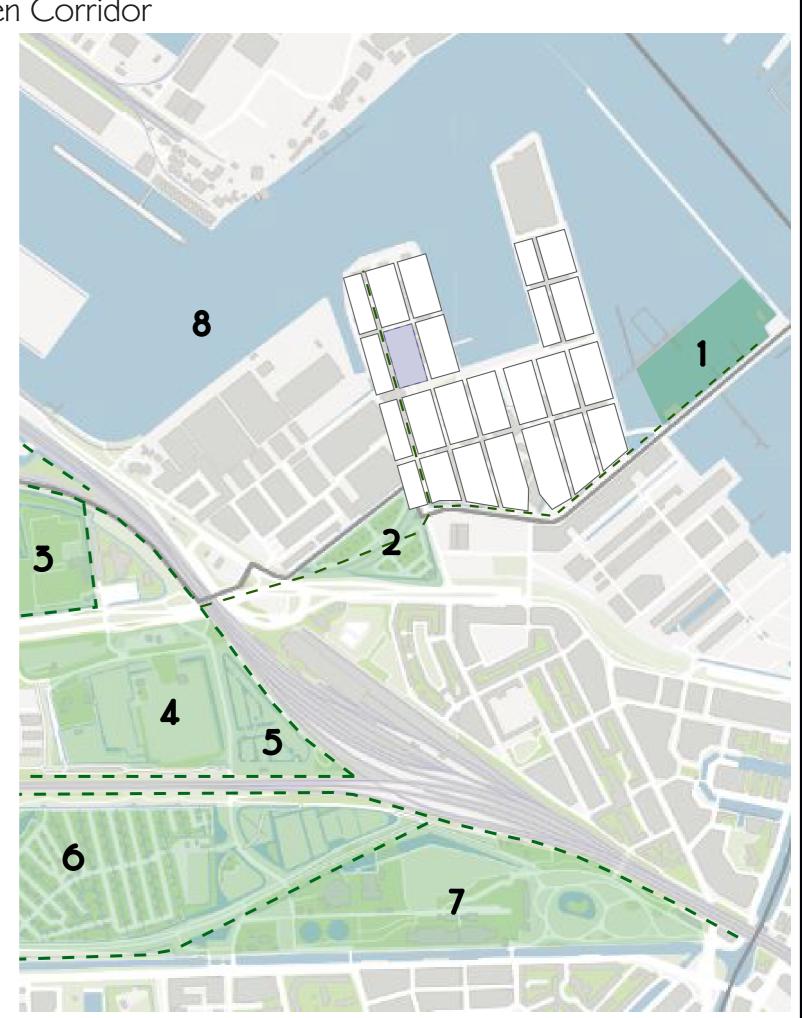
GREEN AND BLUE AREA/

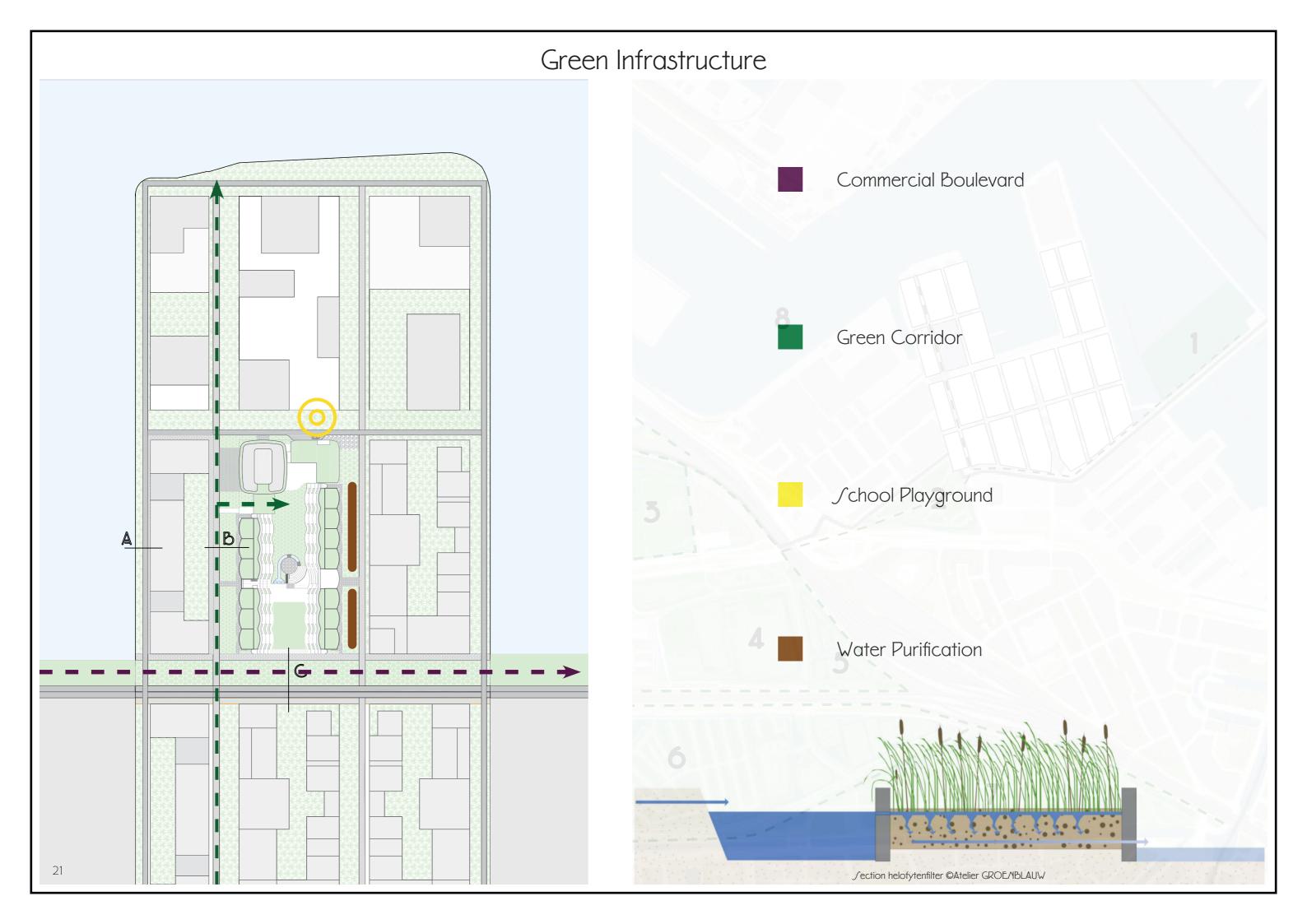
- 1) Planned Parc
- 2) Allotment Gardens Zonnehoek
- 3) ∫ports parc
- 4) *ft.* Barbara Cemetery
- 5) Woeste Westen natural playground
- 6) Allotment Gardens / loterdijk Harbour
- 7) Westerpark
- 8) Harbour
- 19



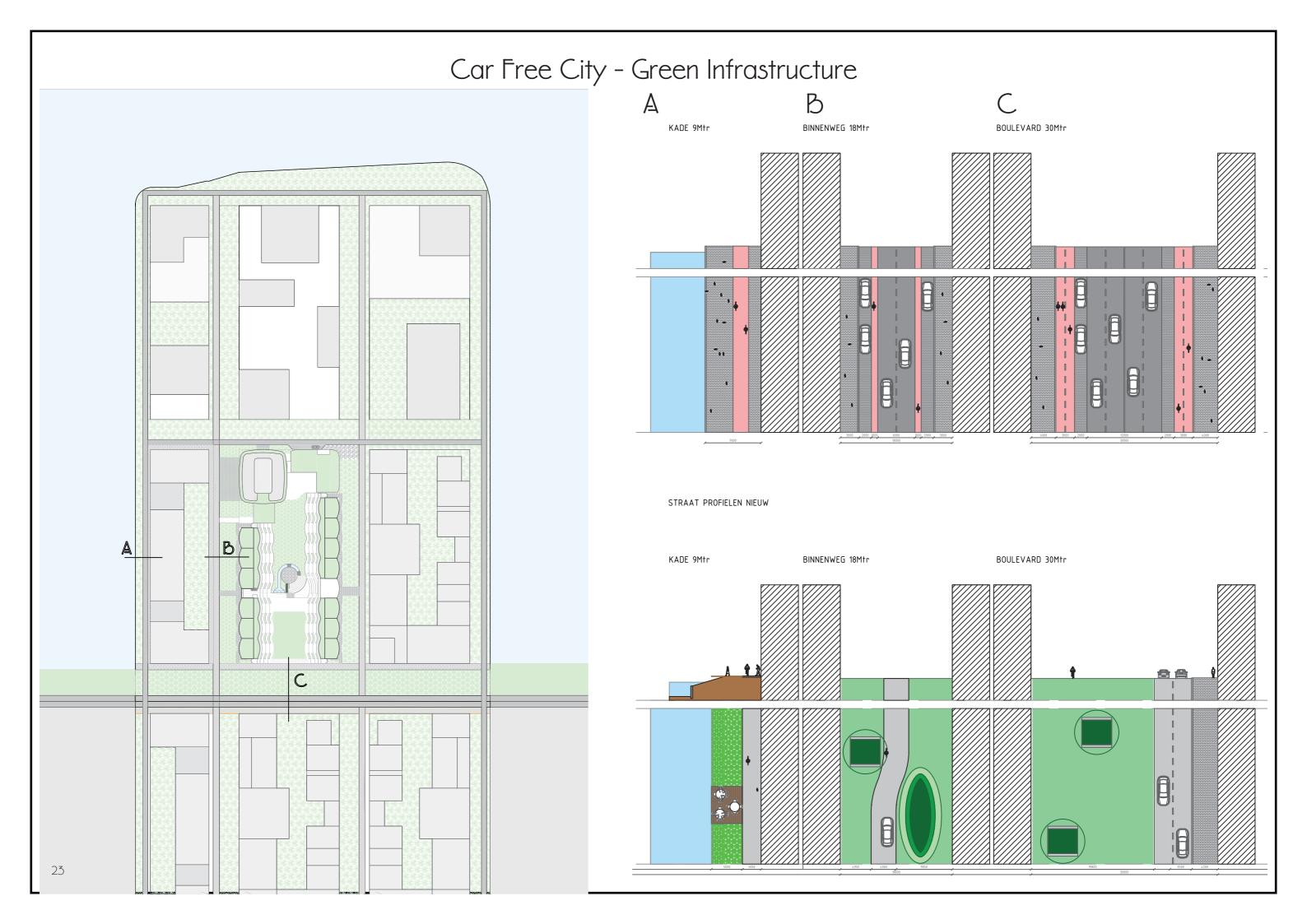


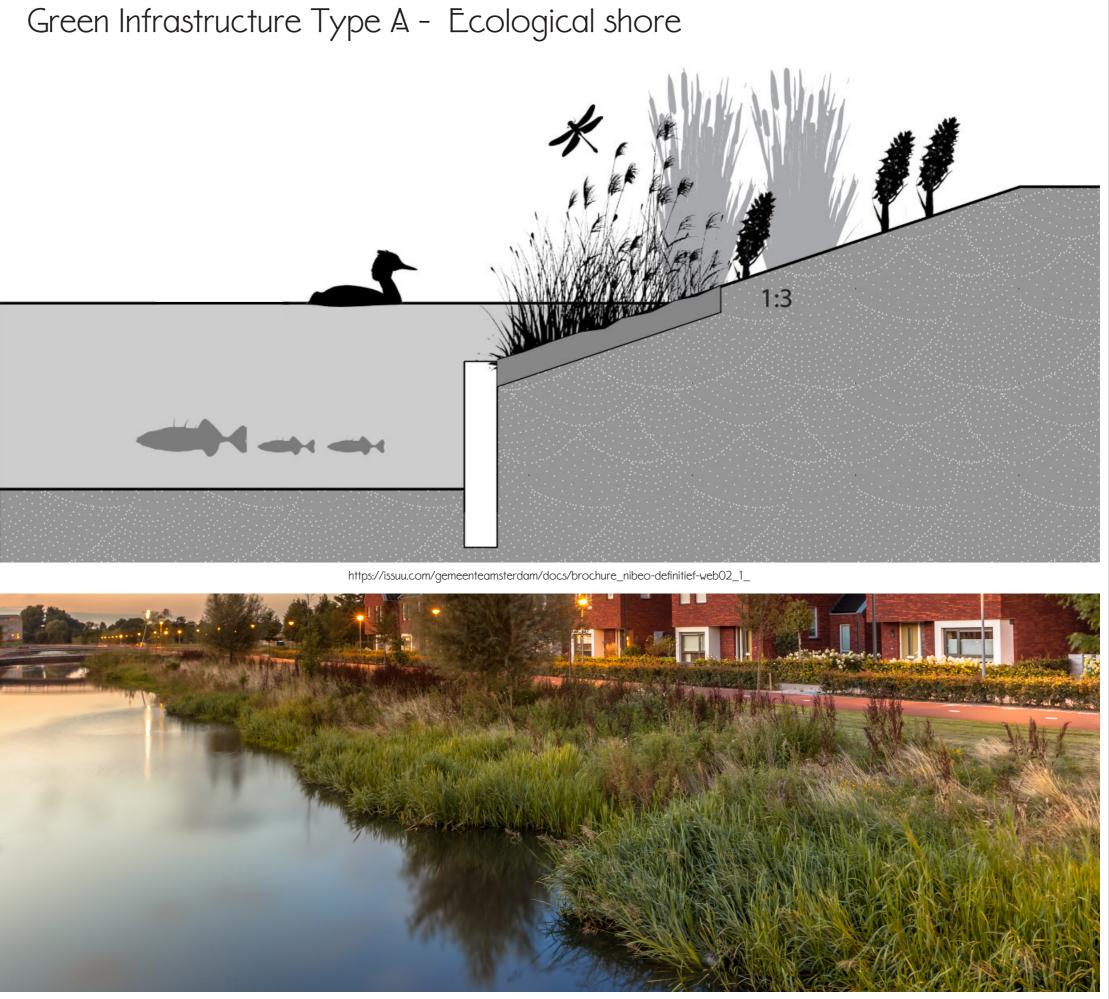
Green Corridor

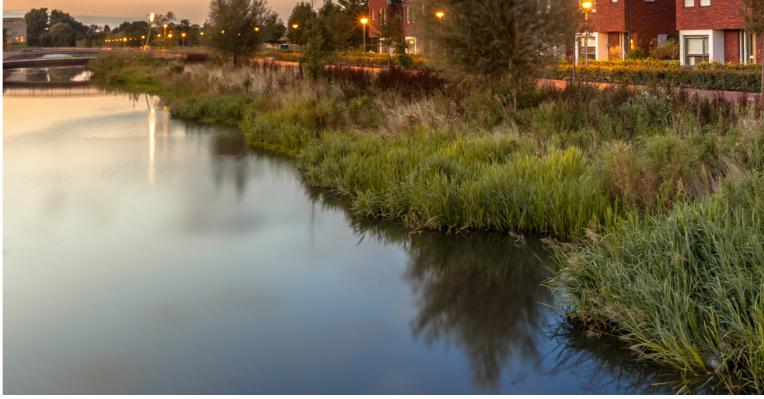




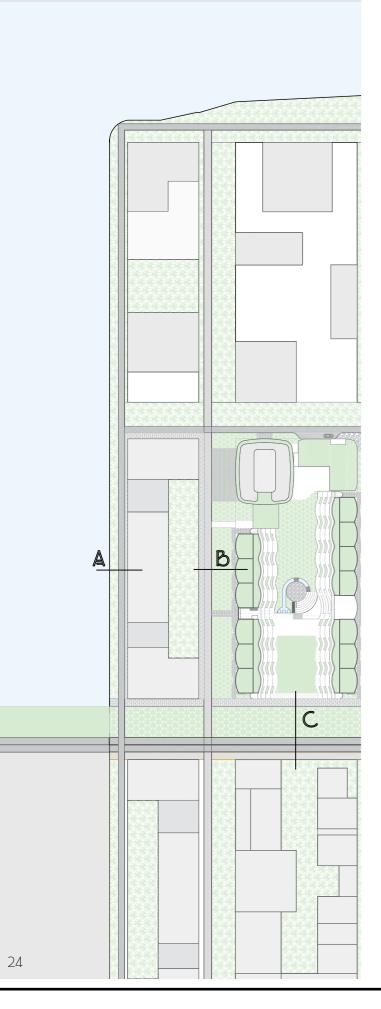


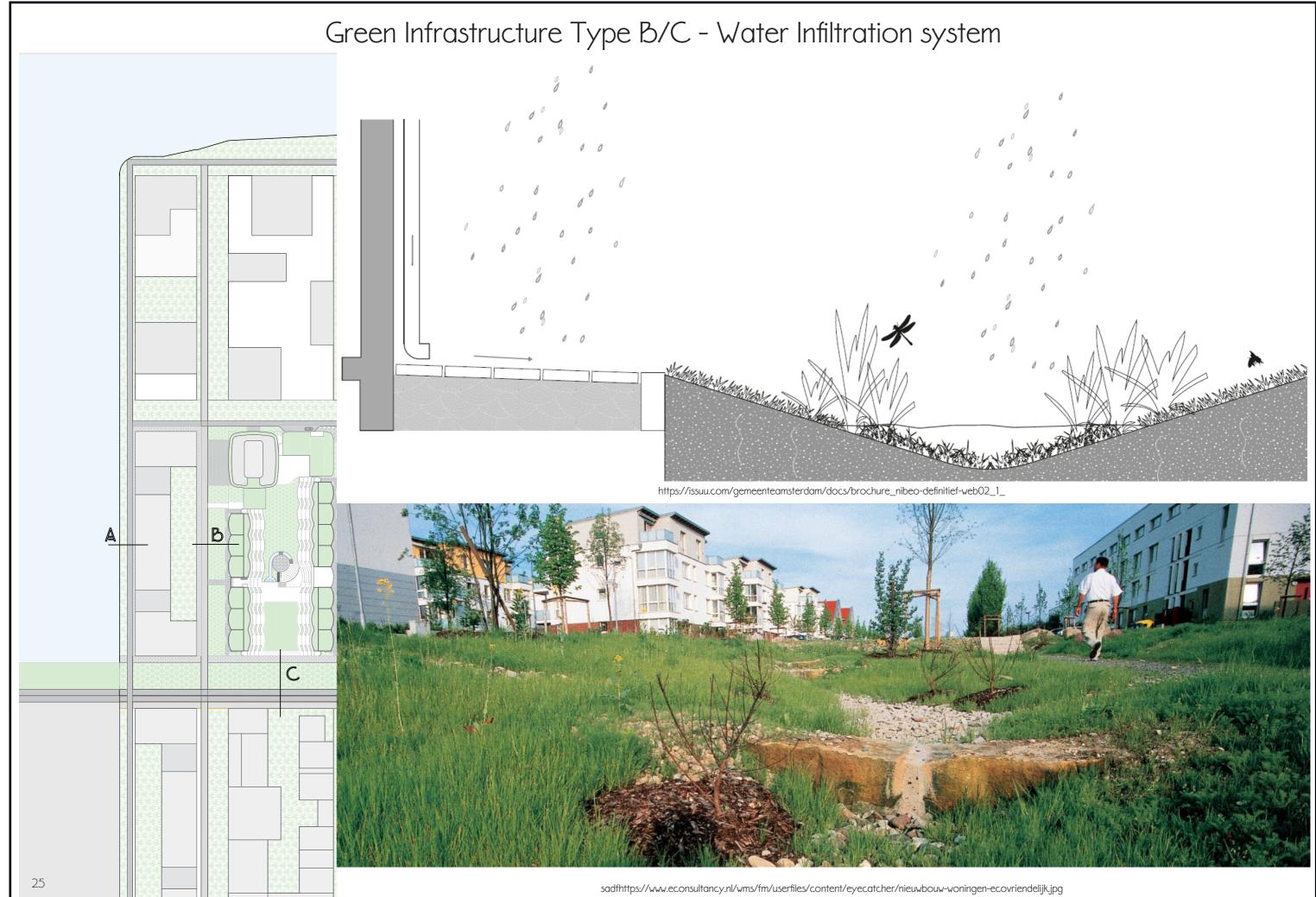


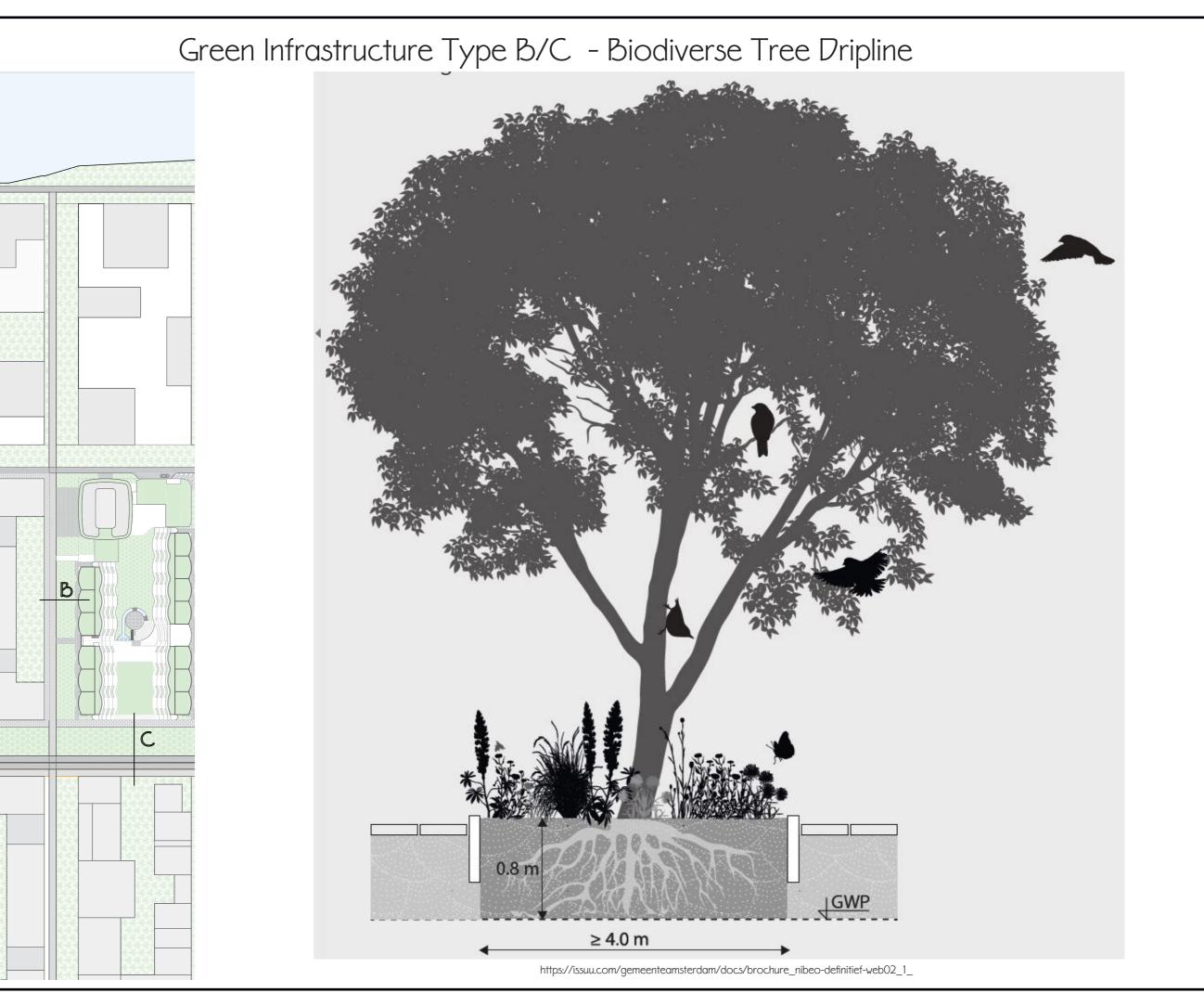


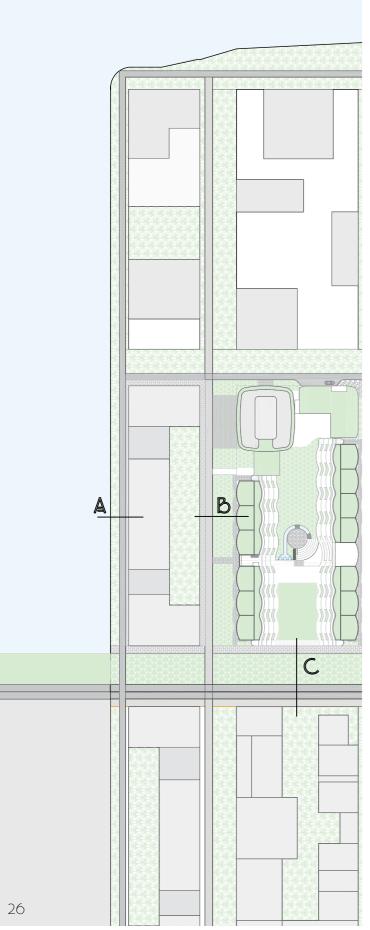


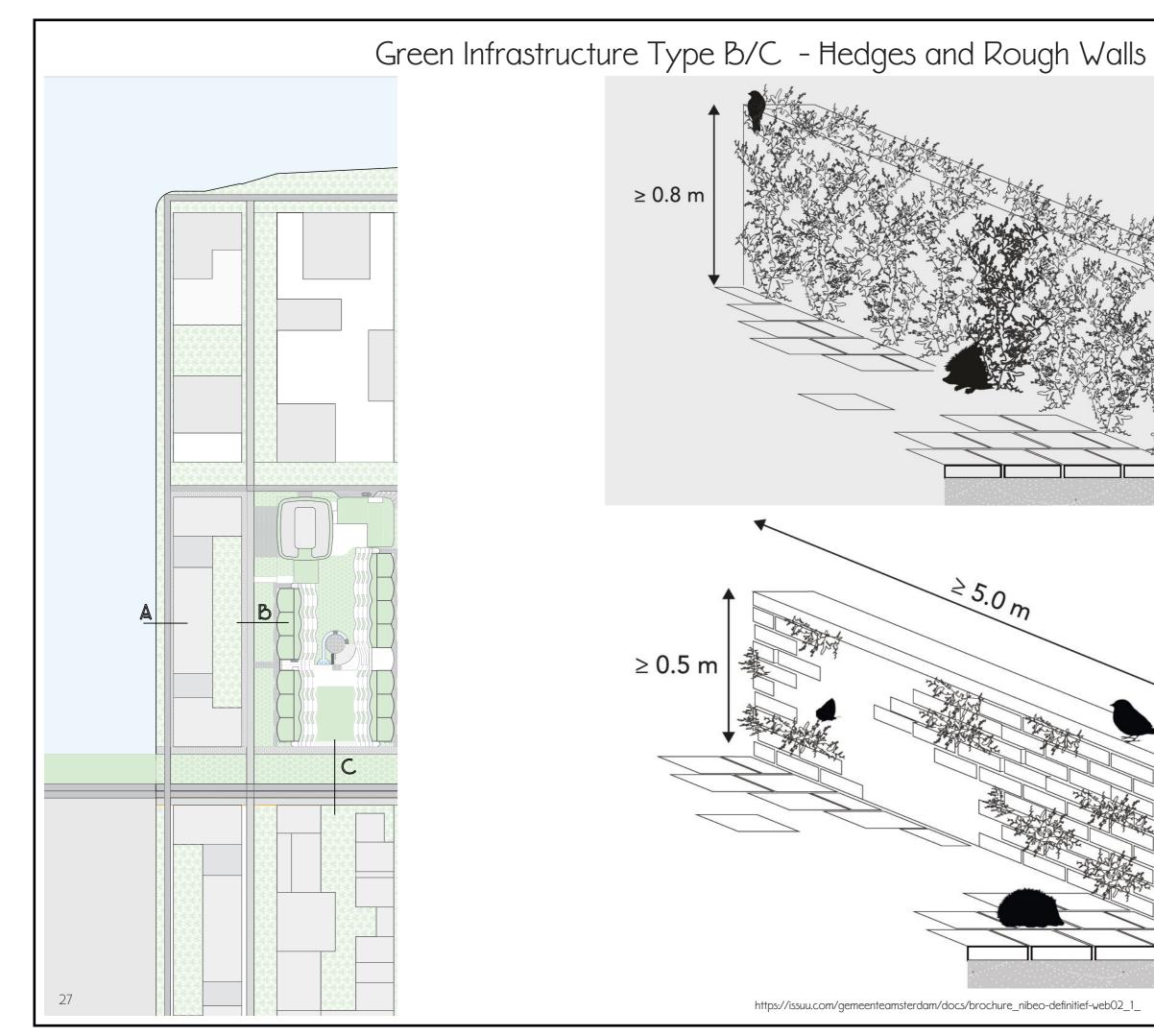
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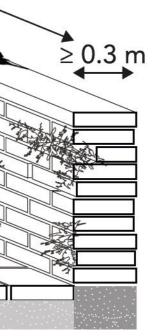






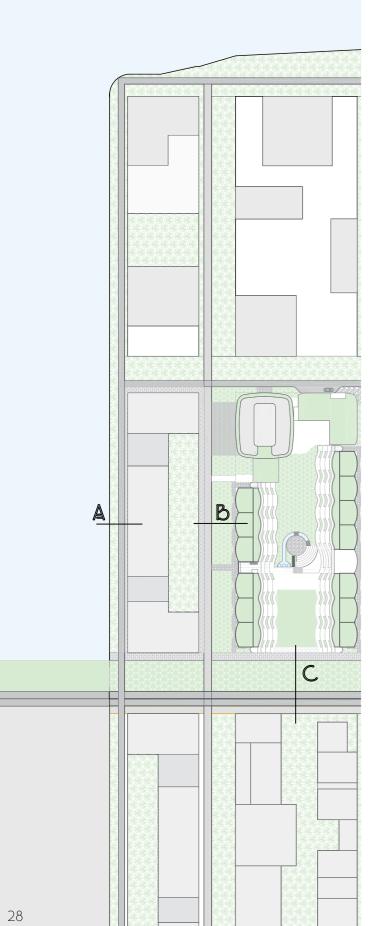






Green Infrastructure Type C- Boulevard

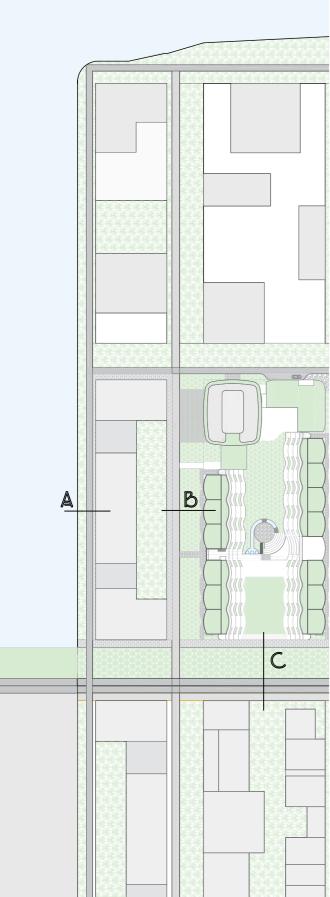




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Green Infrastructure Type C- Boulevard



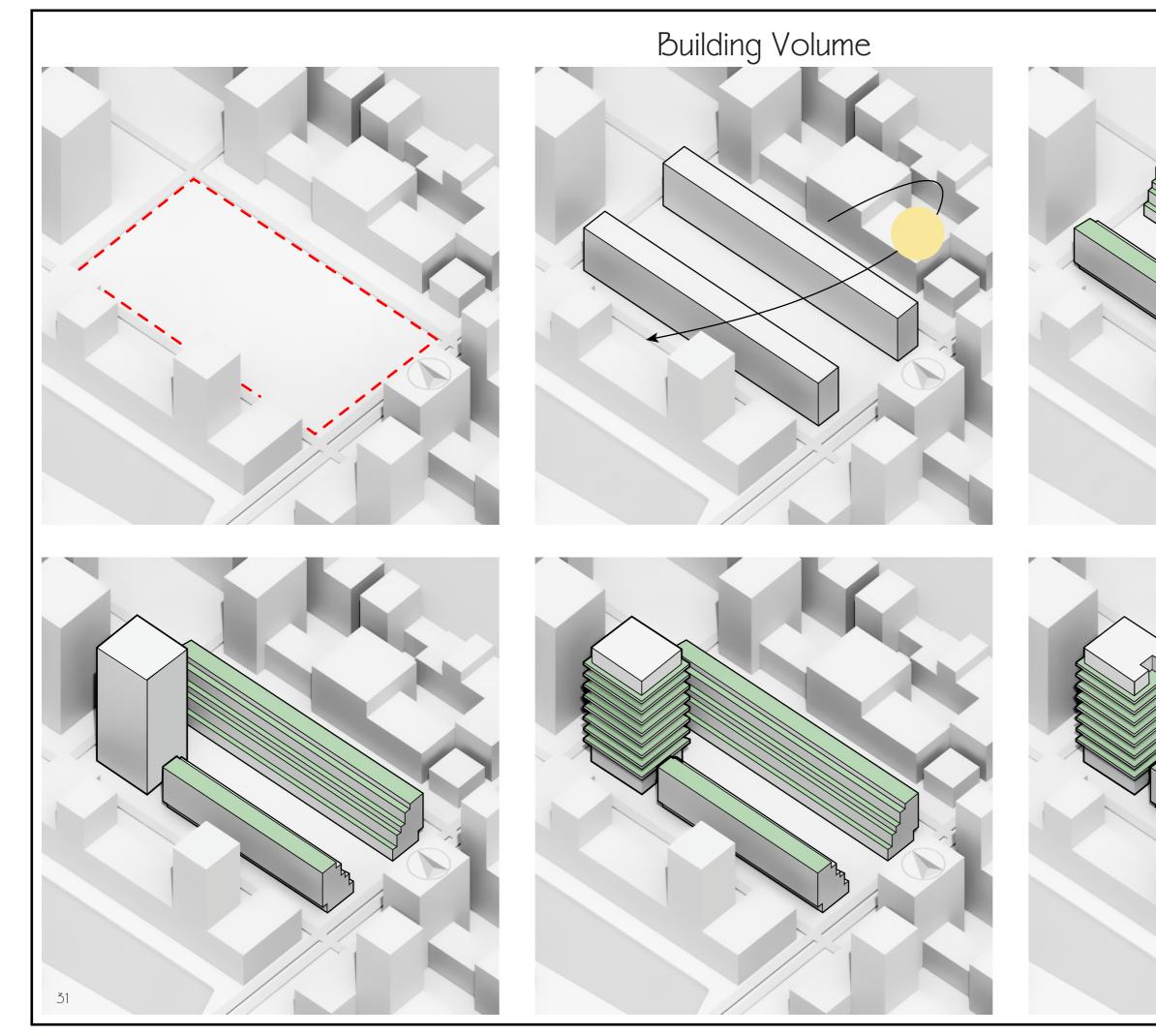


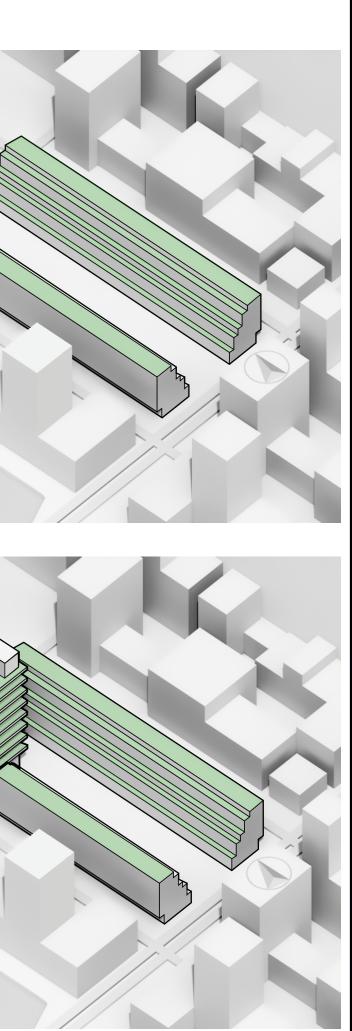
https://www.econsultancy.nl/wms/fm/userfiles/content/eyecatcher/nieuwbouw-woningen-ecovriendelijk.jpg

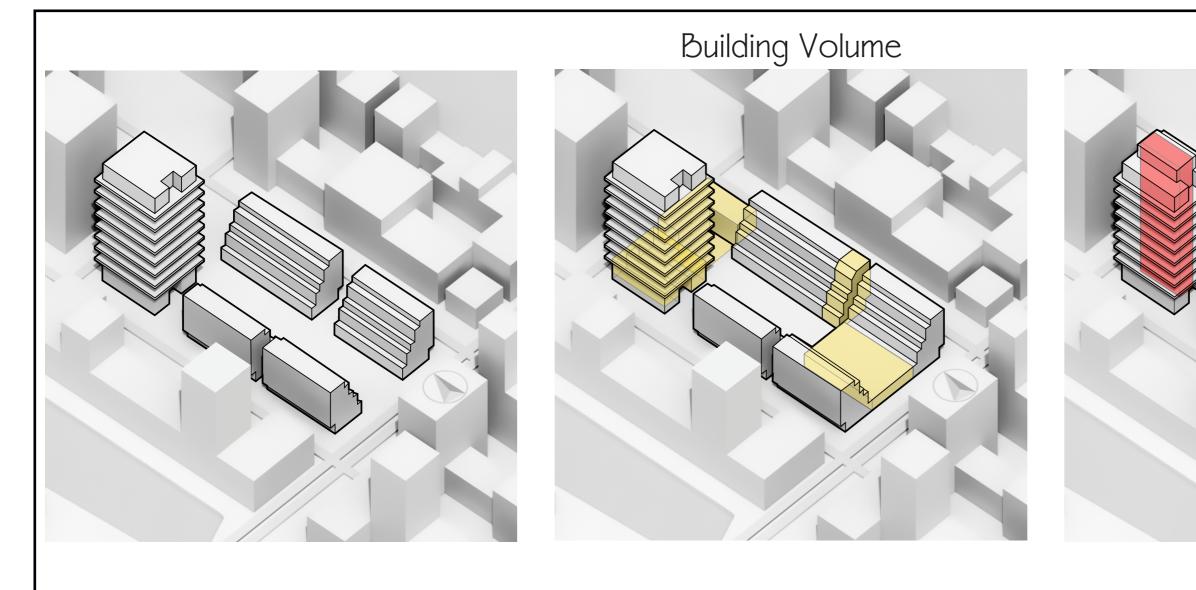
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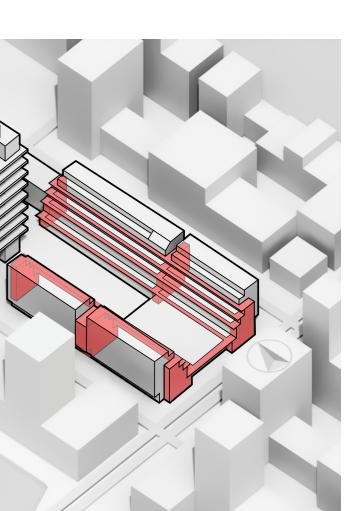


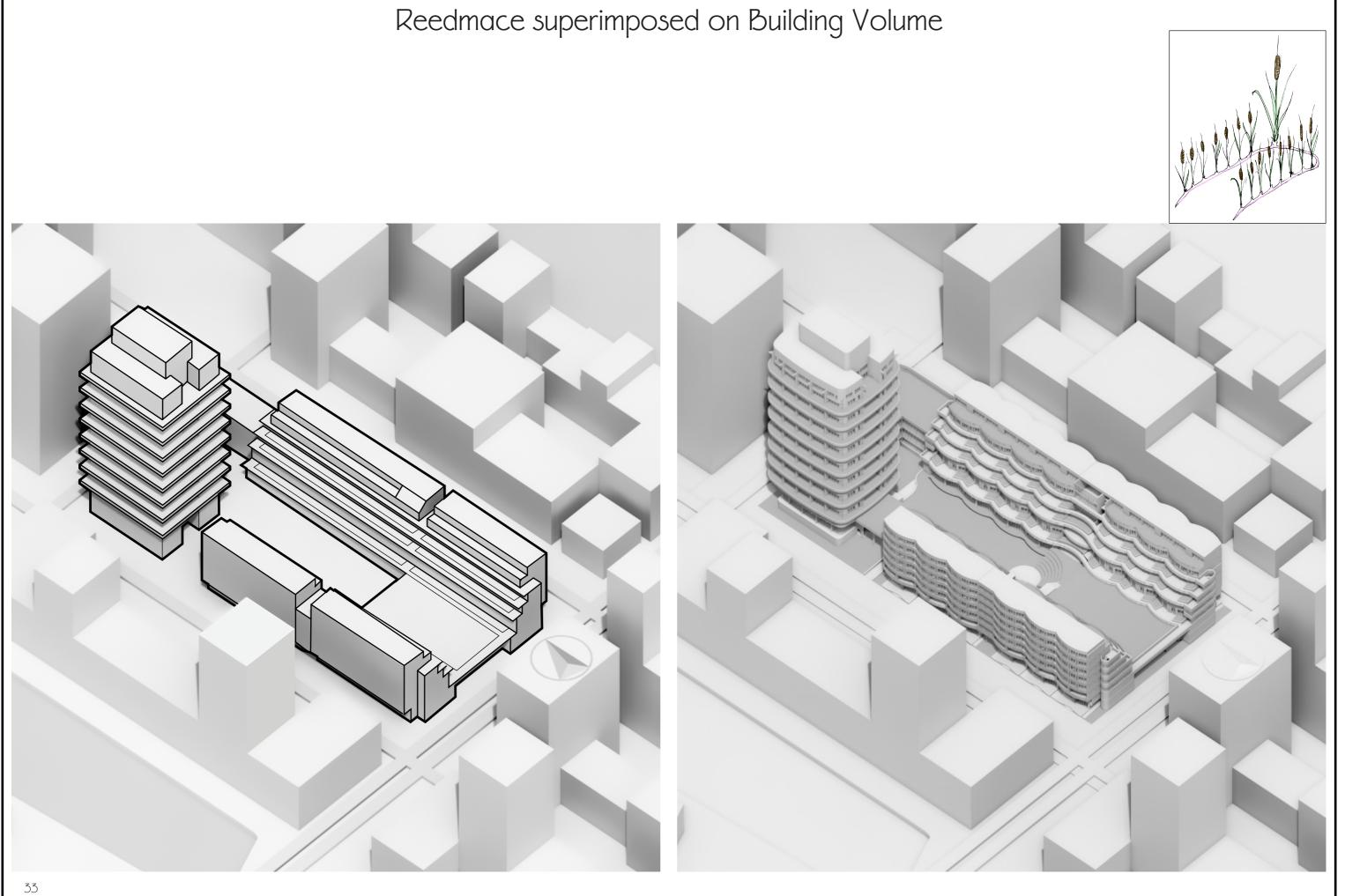
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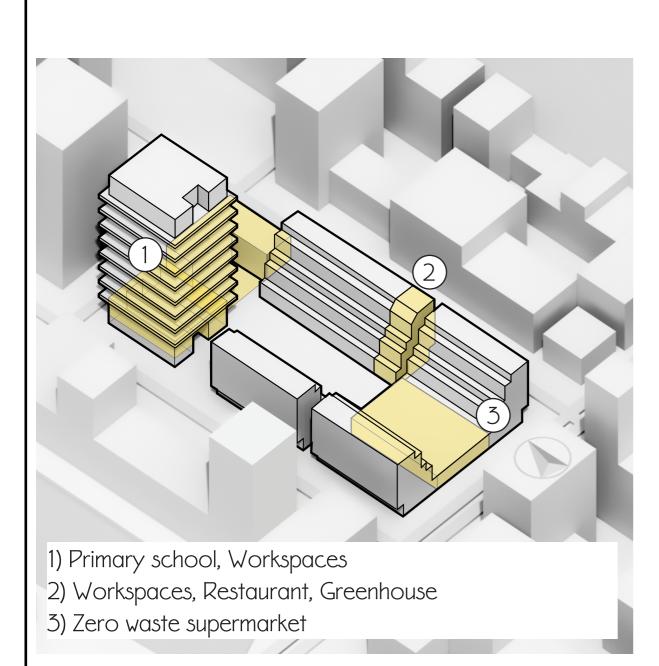






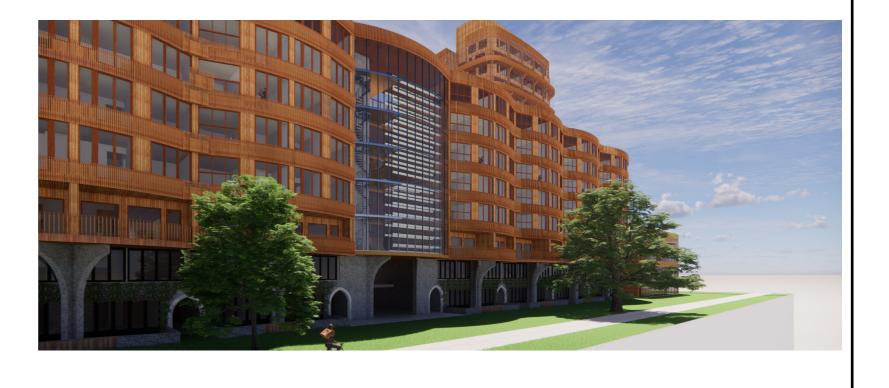


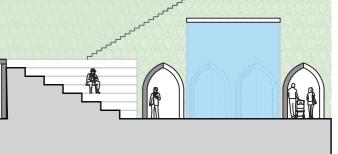


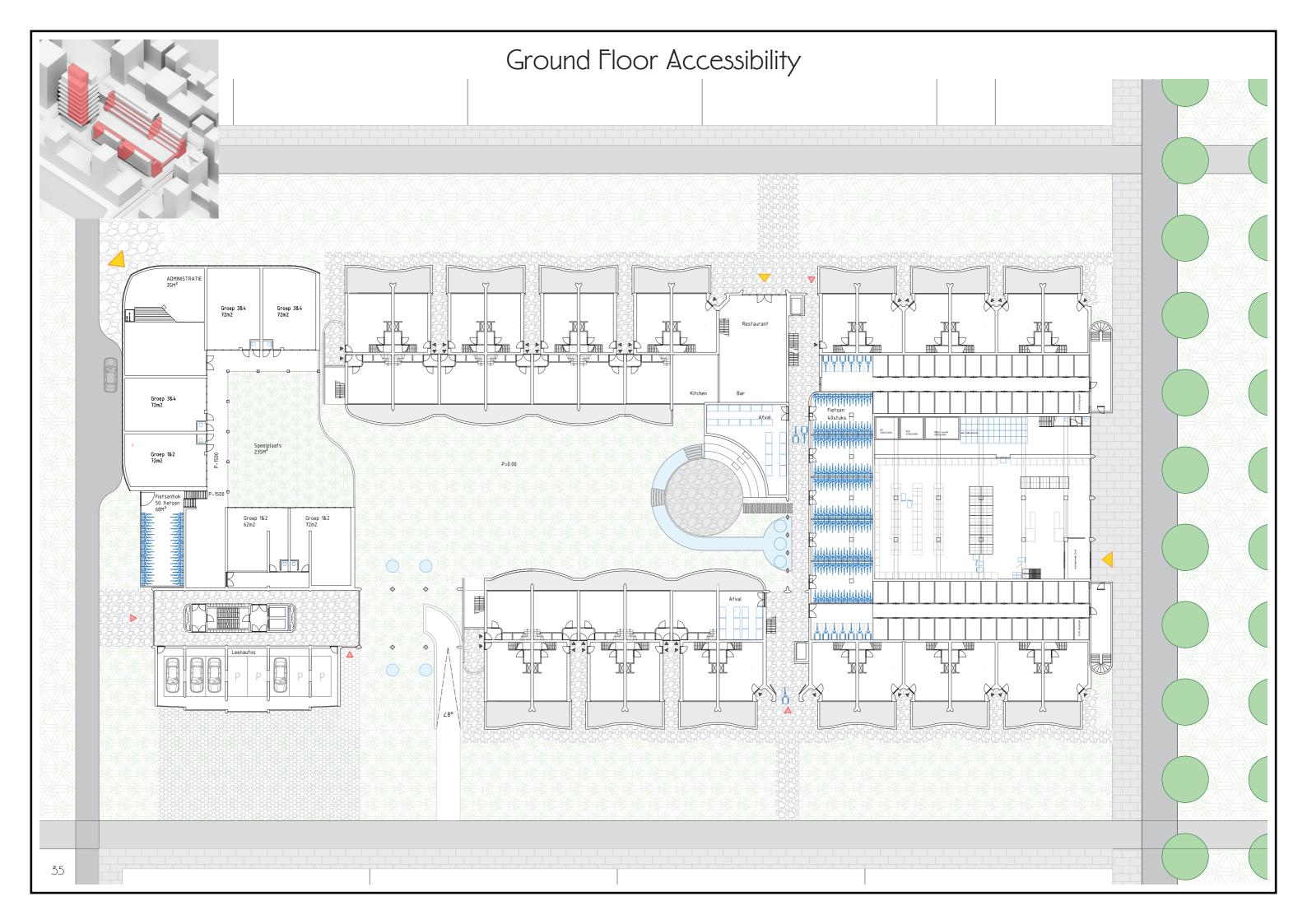


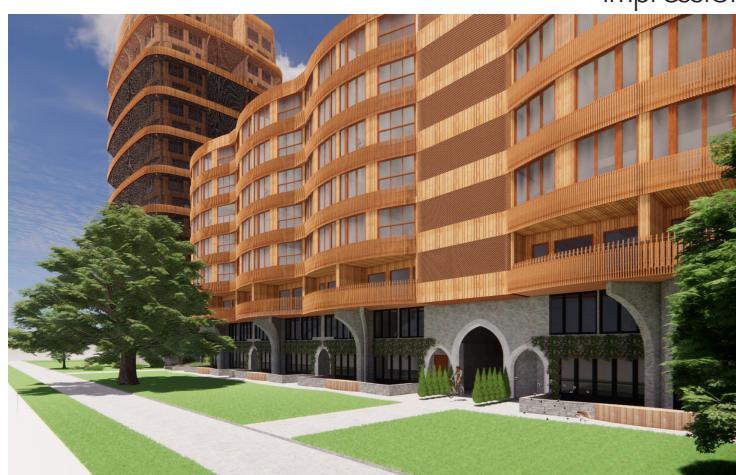


Functions Greenhouse Workspaces Restaurant/bar







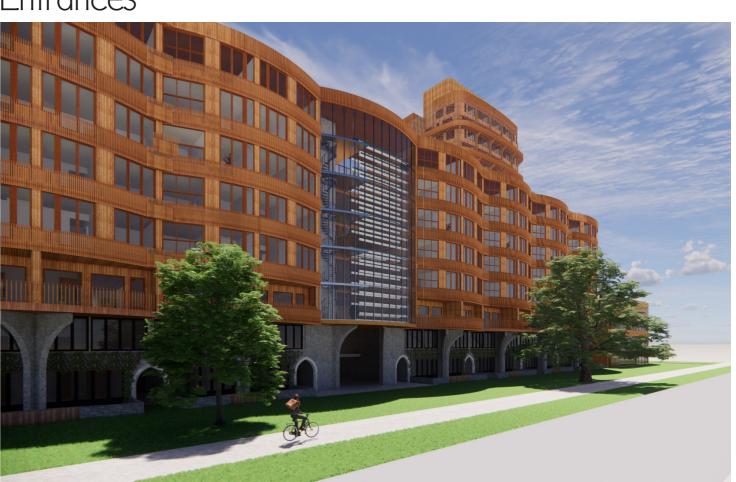


Apartment Block West Entrance



³⁶ Residential Tower Jouth Entrance/ Natural corridor

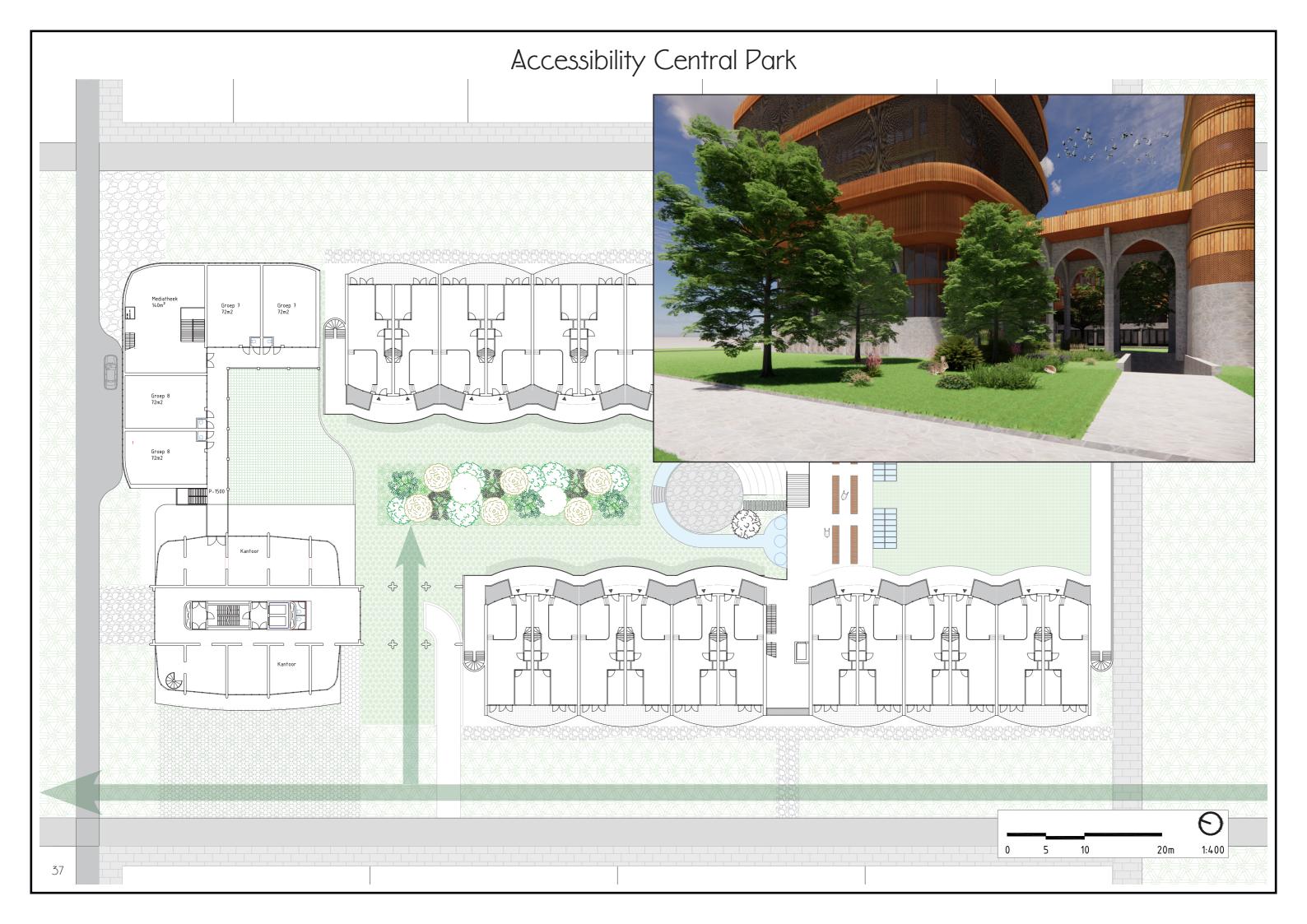
Impressions Entrances



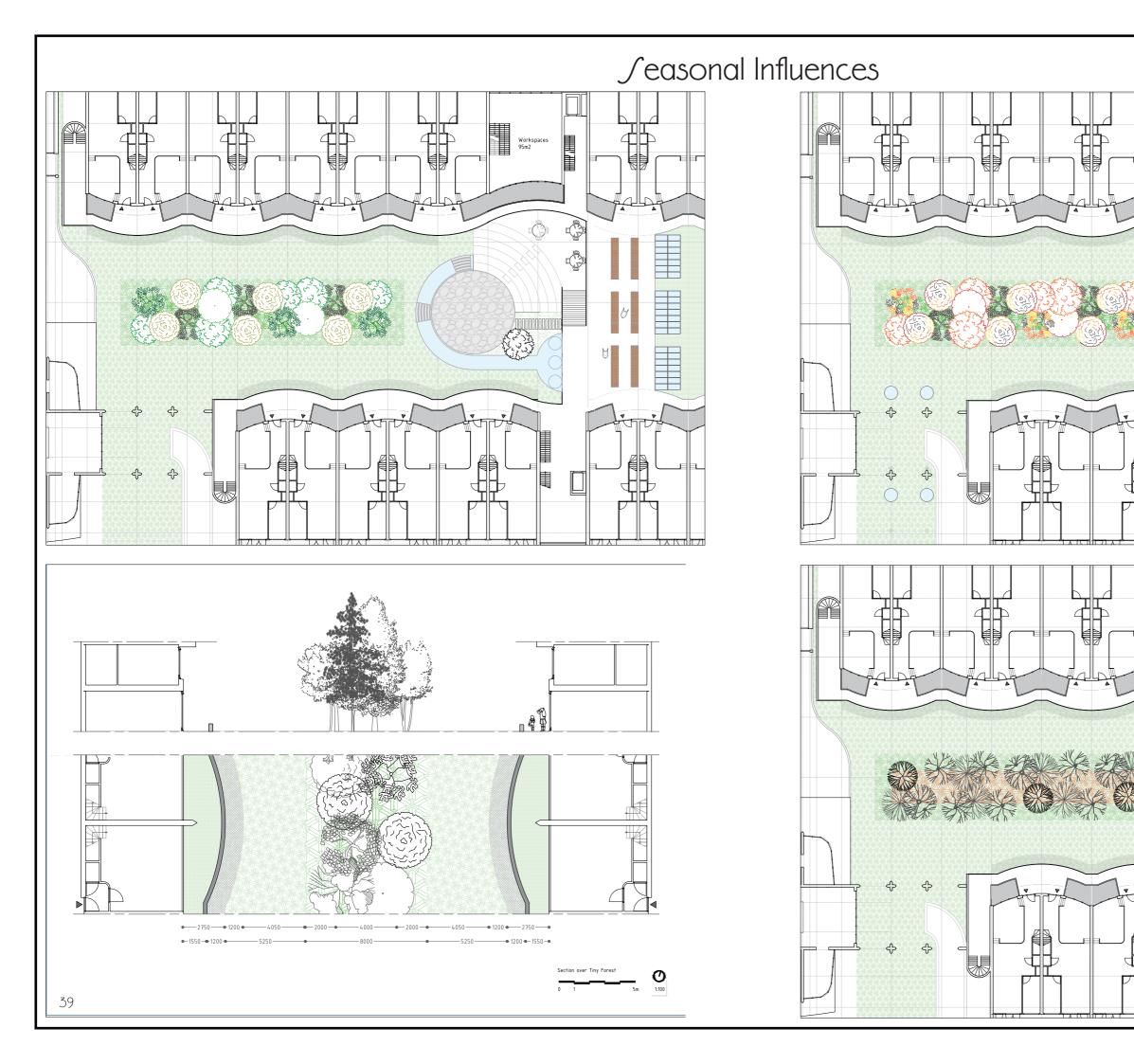
Apartment Block East Entrance

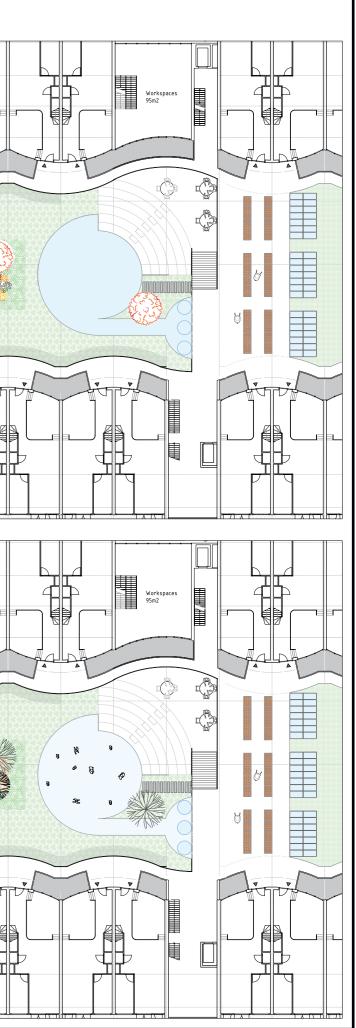


Residential Tower North Entrance

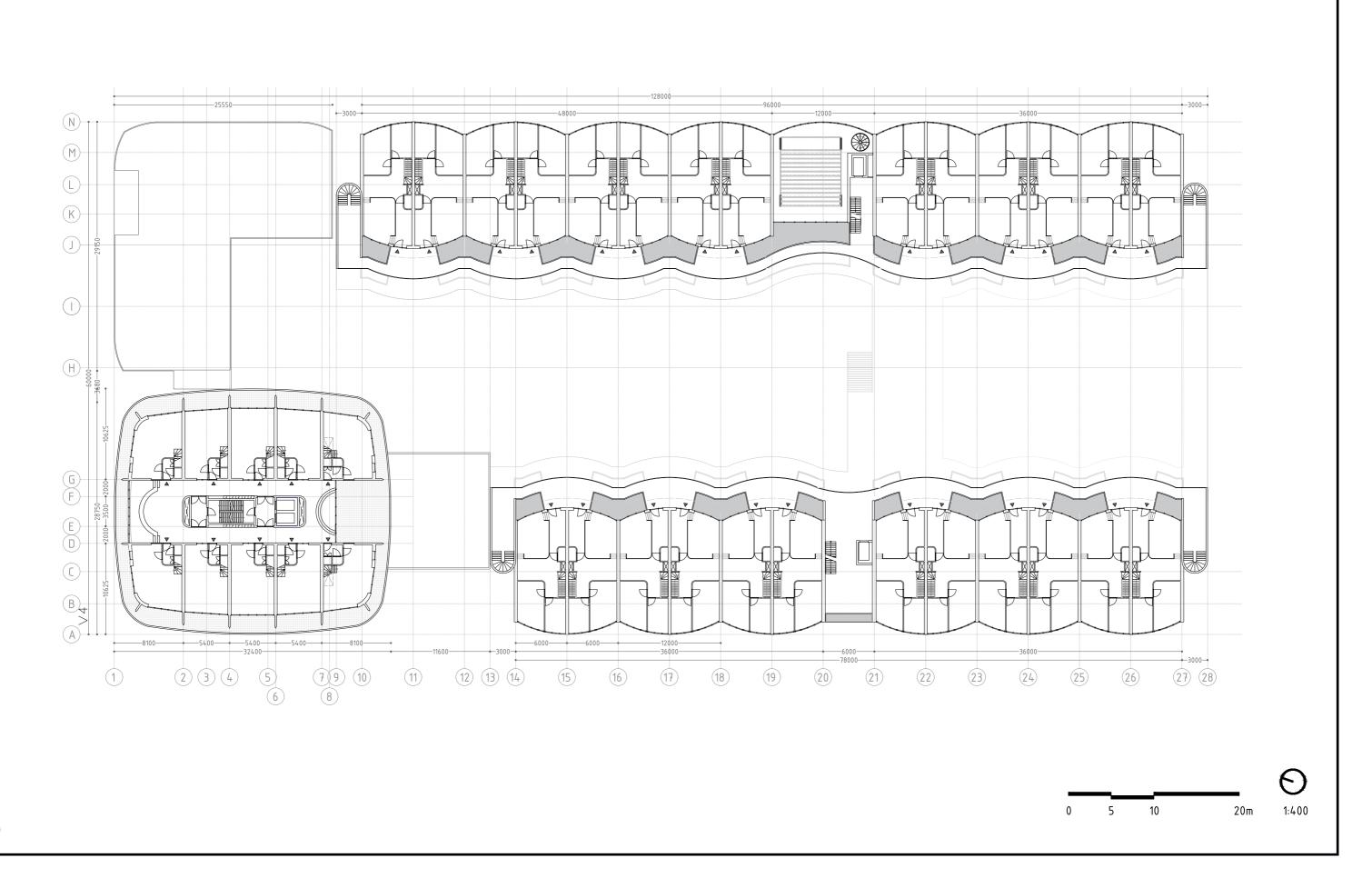


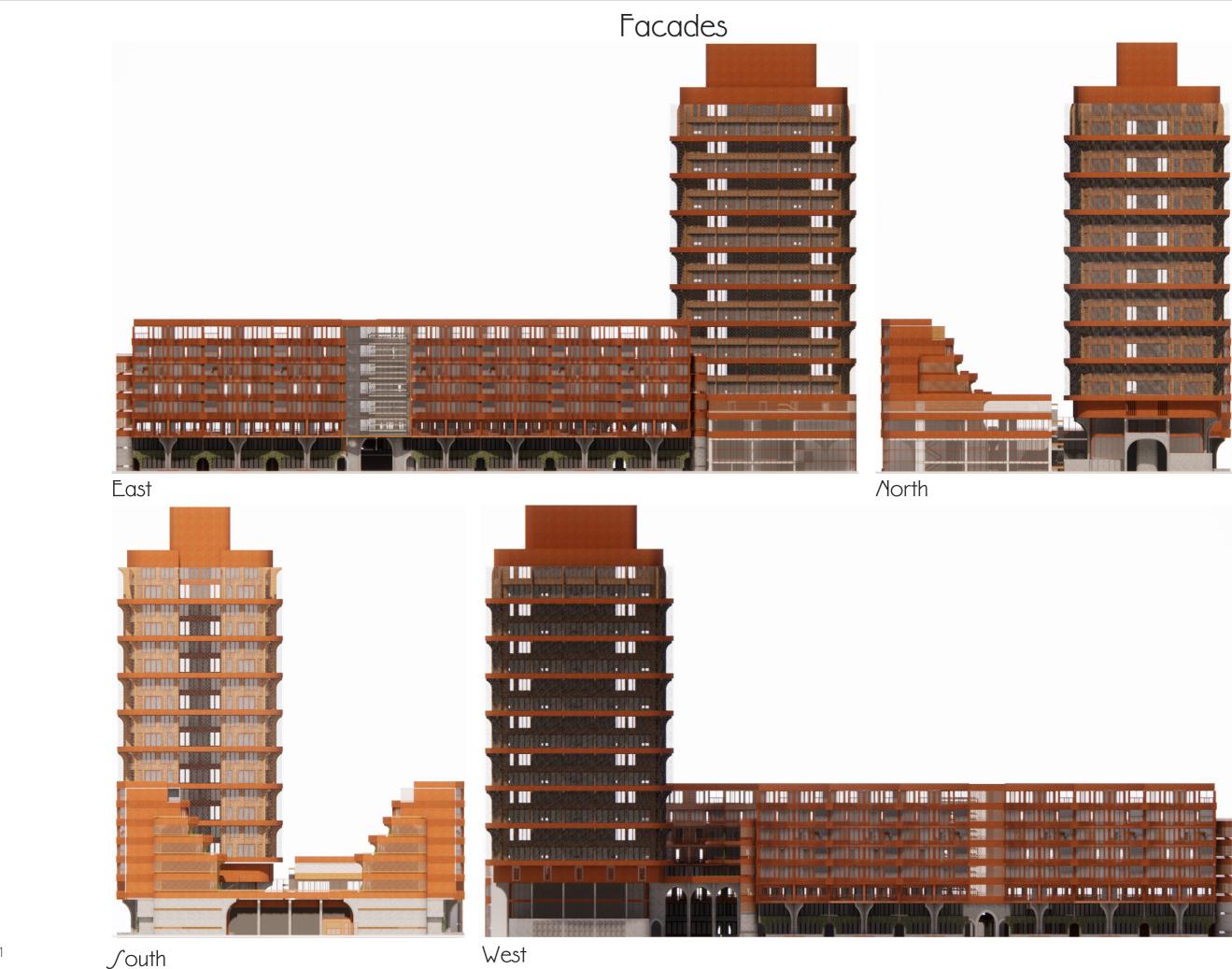






Floorplan Fourth Floor

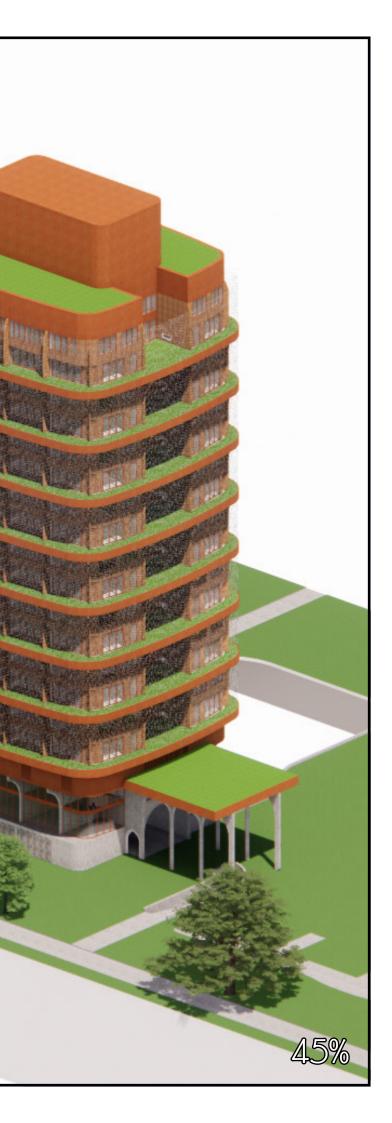


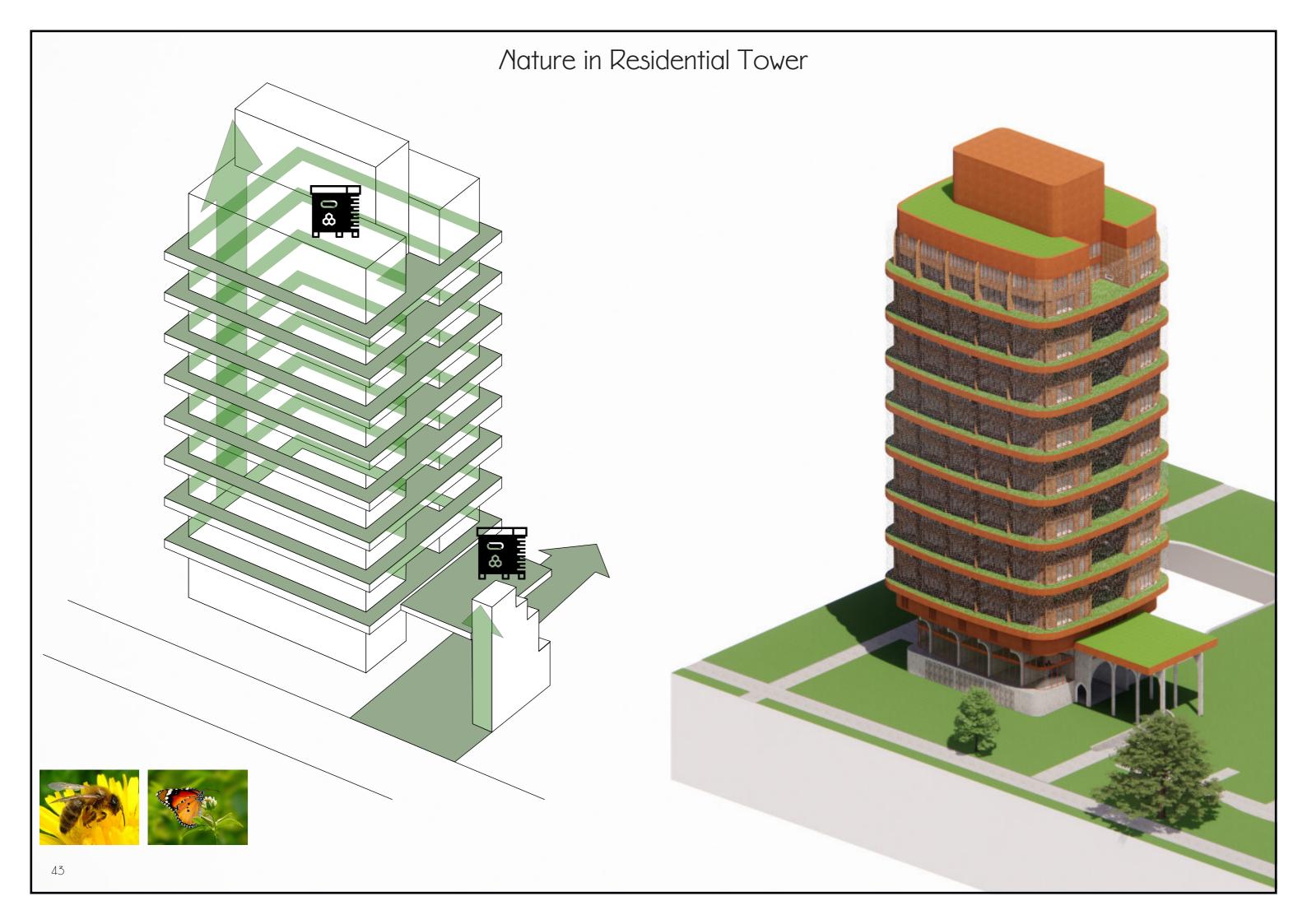


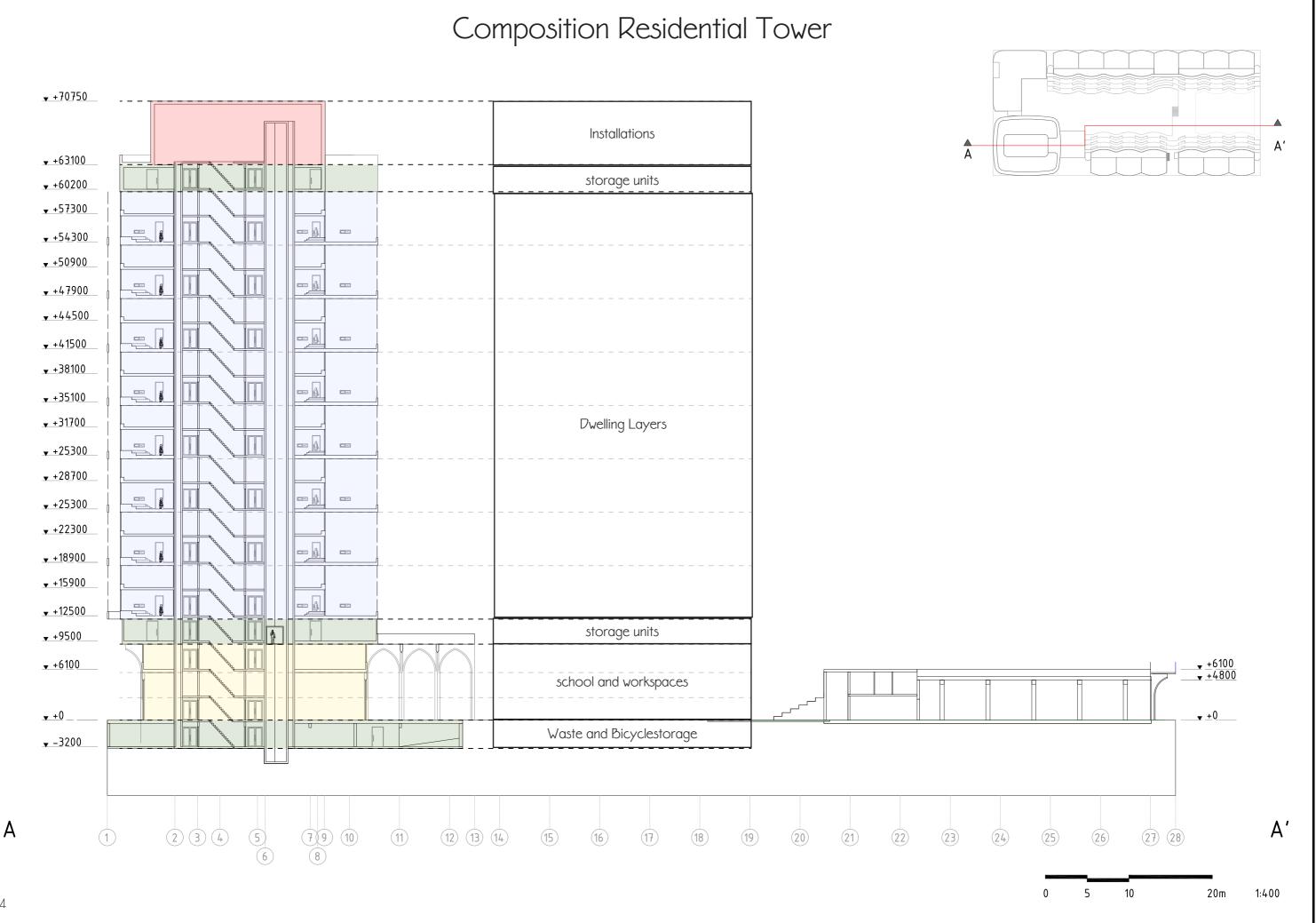
41

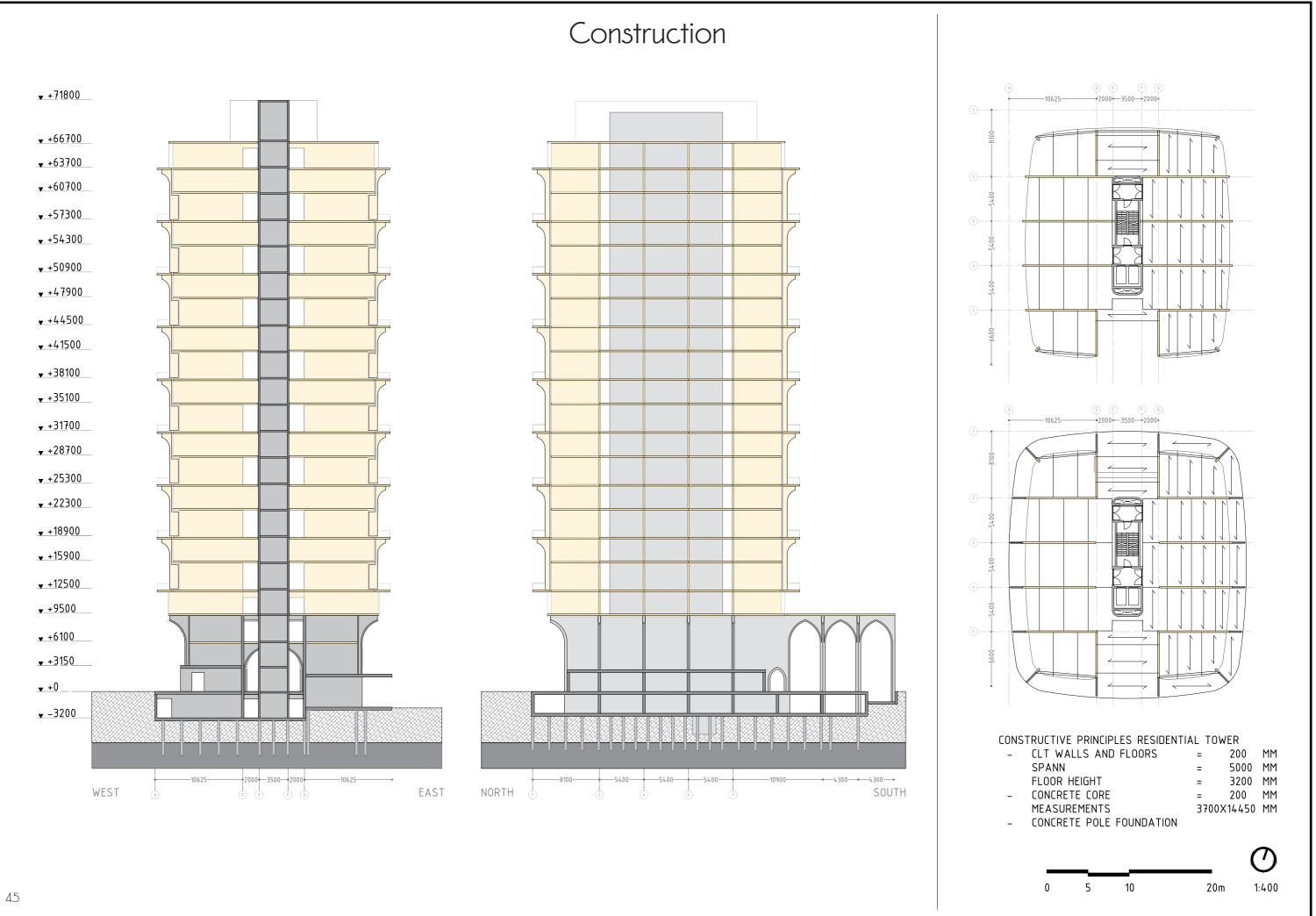
West

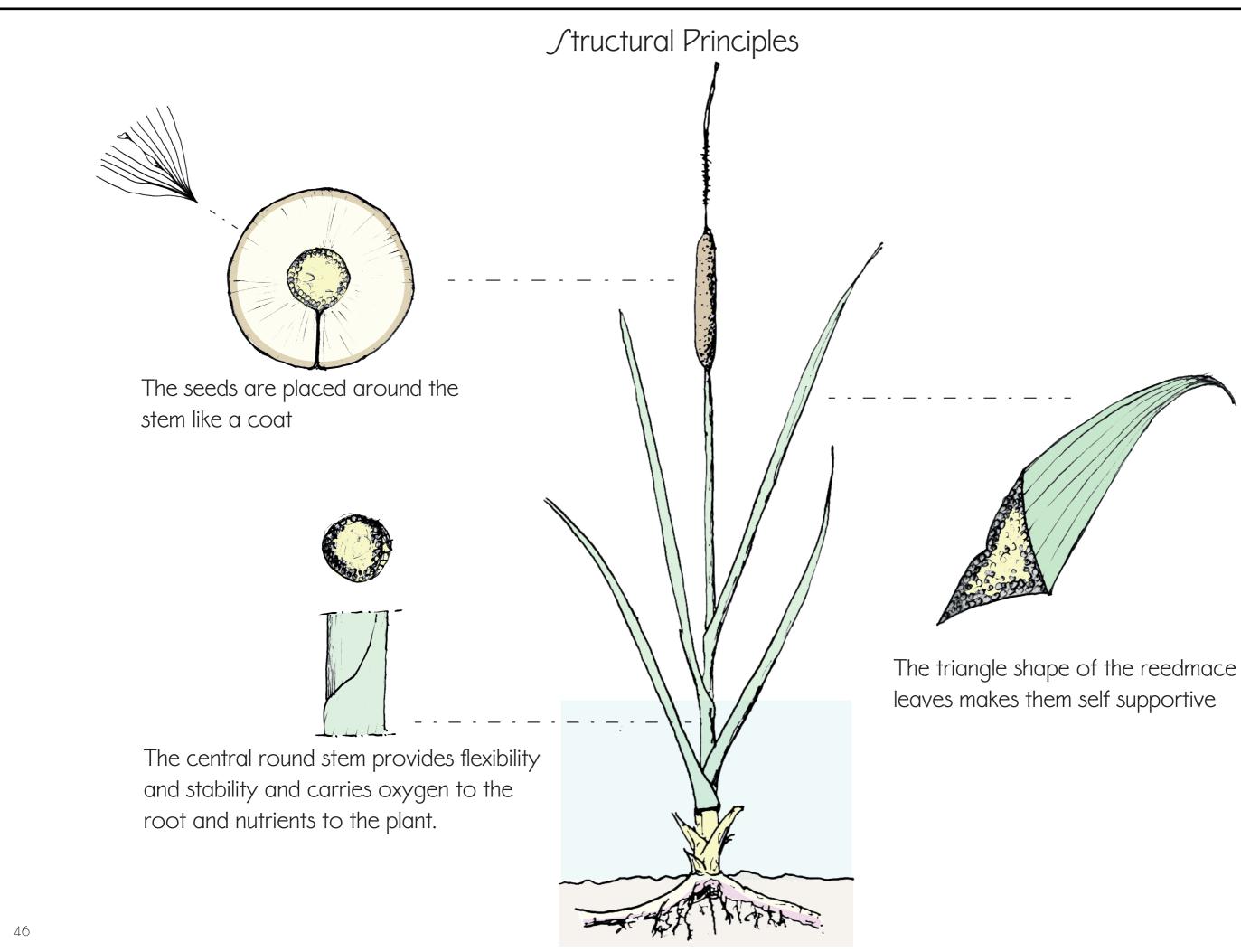
Residential Tower

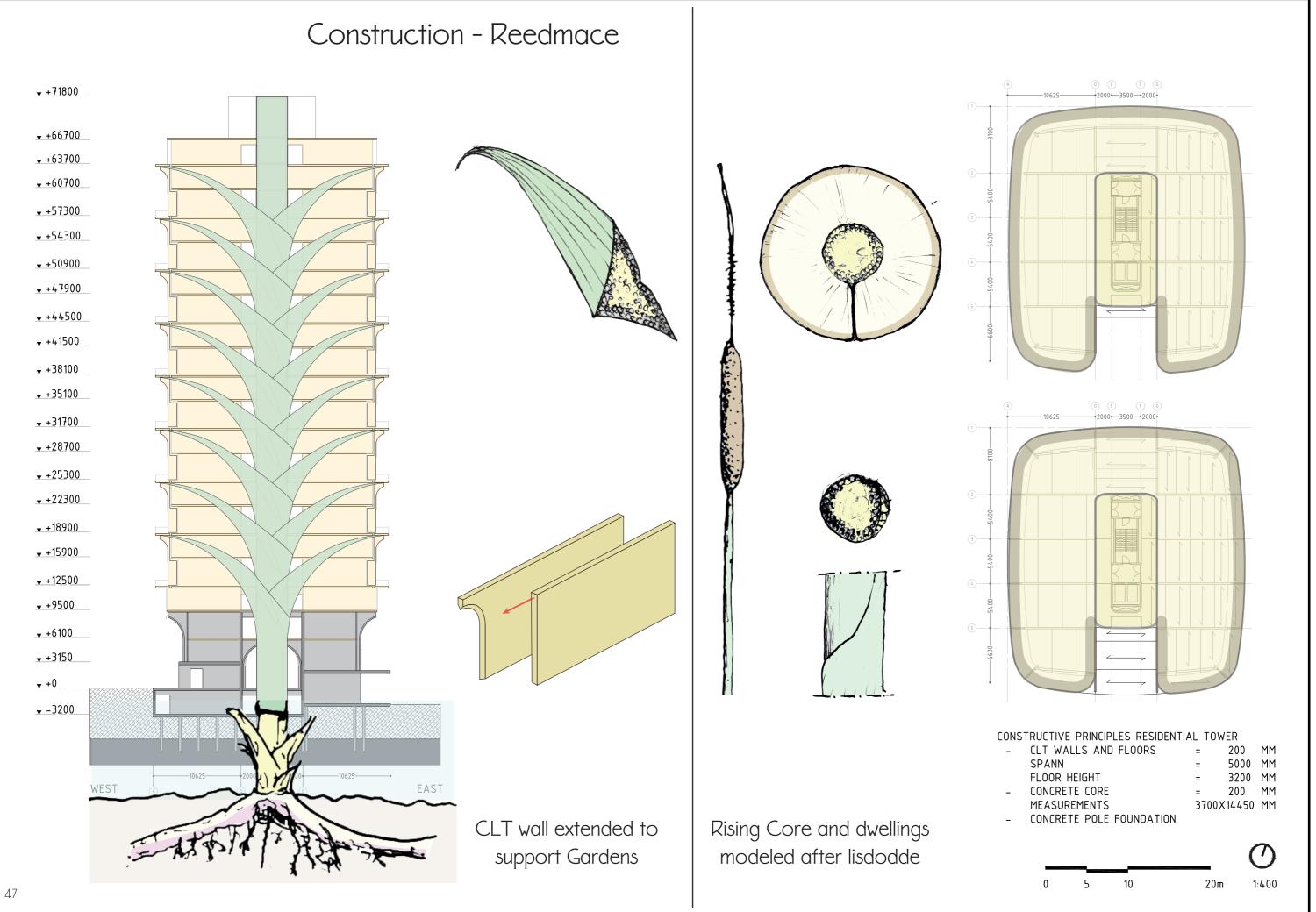


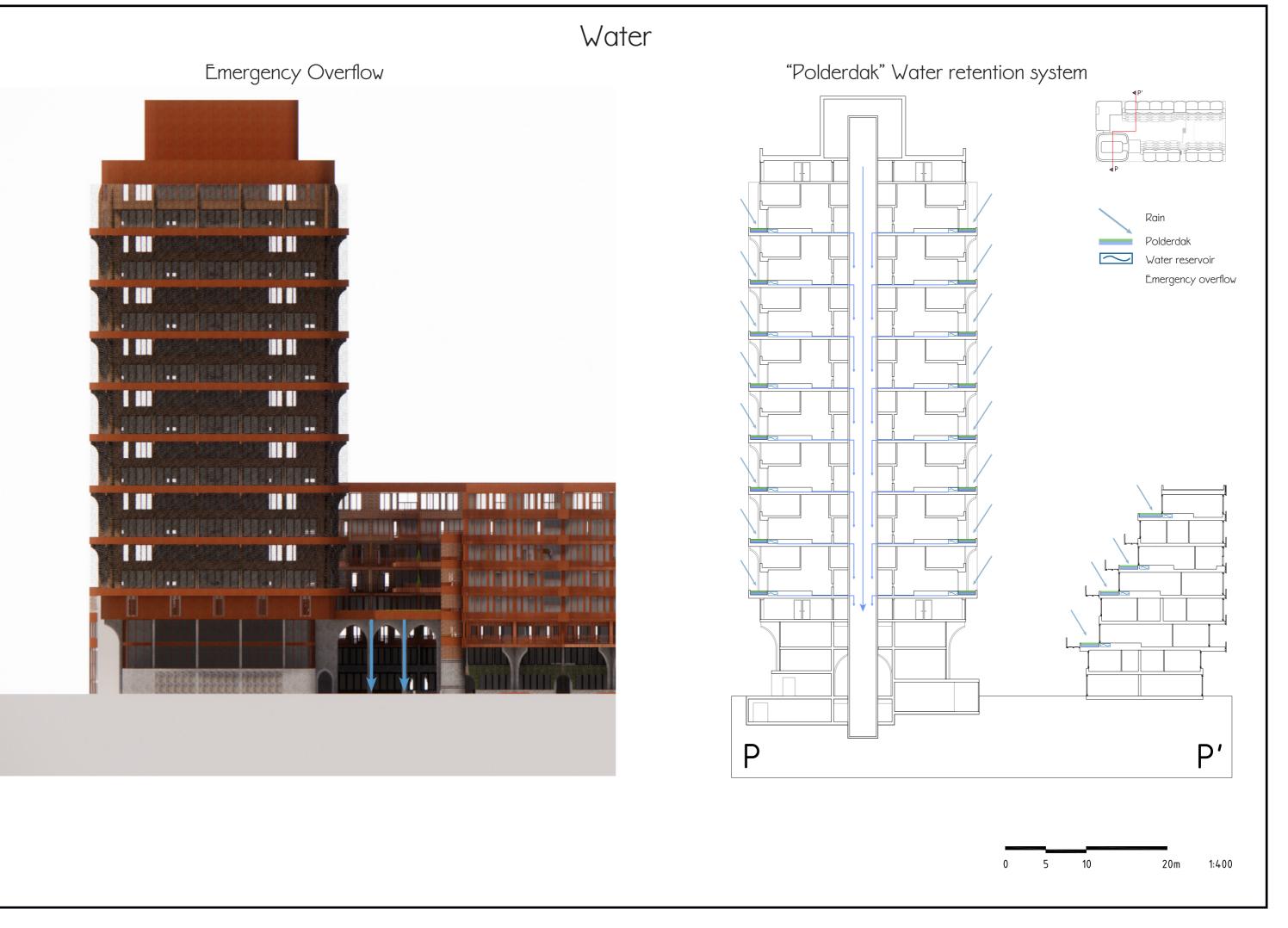


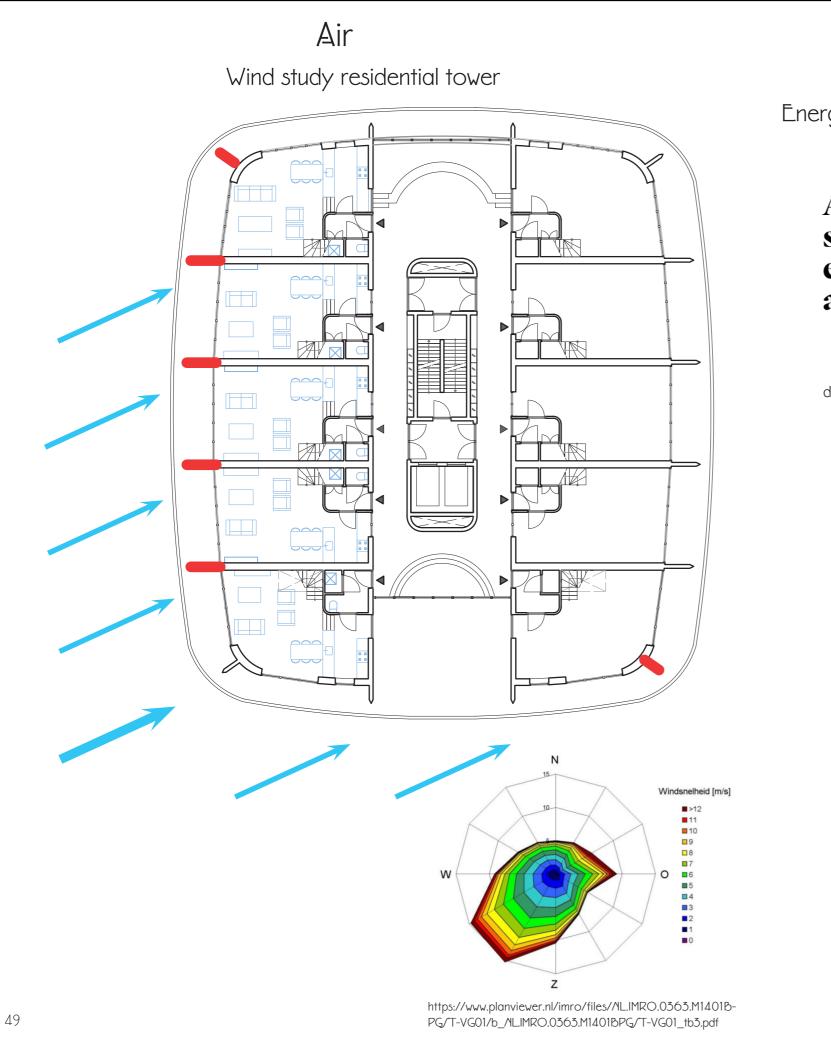












Earth

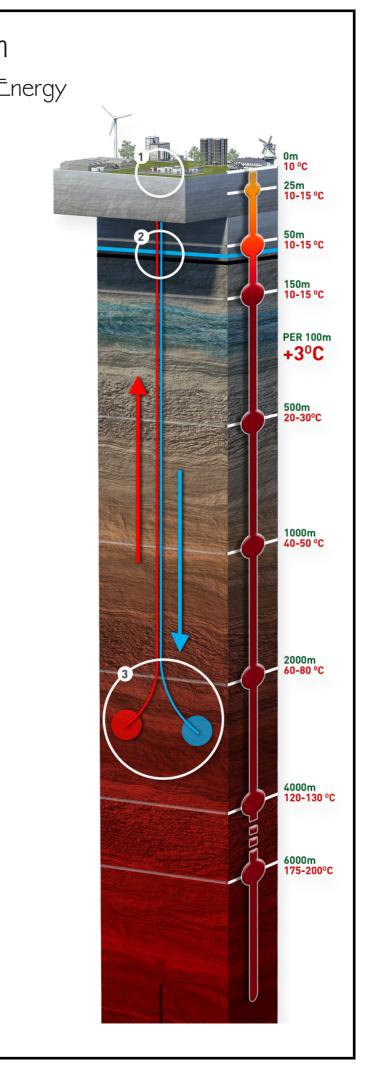
Geothermal Energy

Energy for 4.000 to 10.000 homes Low temperature heating

Amsterdam gaat stadsbreed boren naar een alternatief voor aardgas

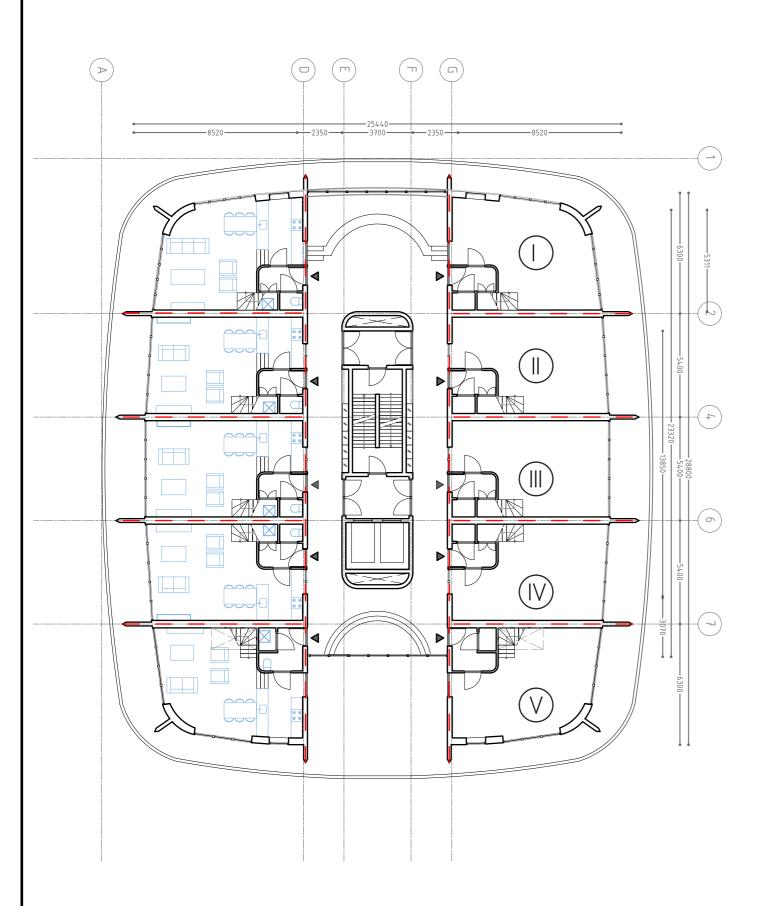
Parool 10-06-2021

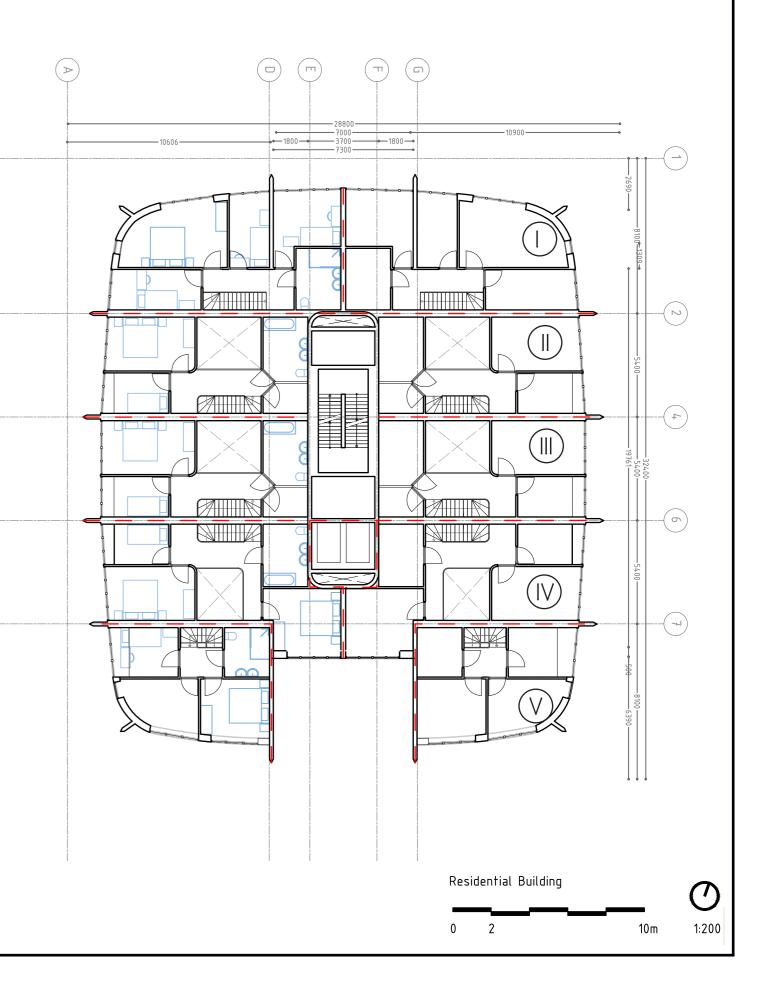
https://www.parool.nl/amsterdam/amsterdam-gaat-stadsbreed-boren-naar-een-alternatief-voor-aardgas~b1e619765/



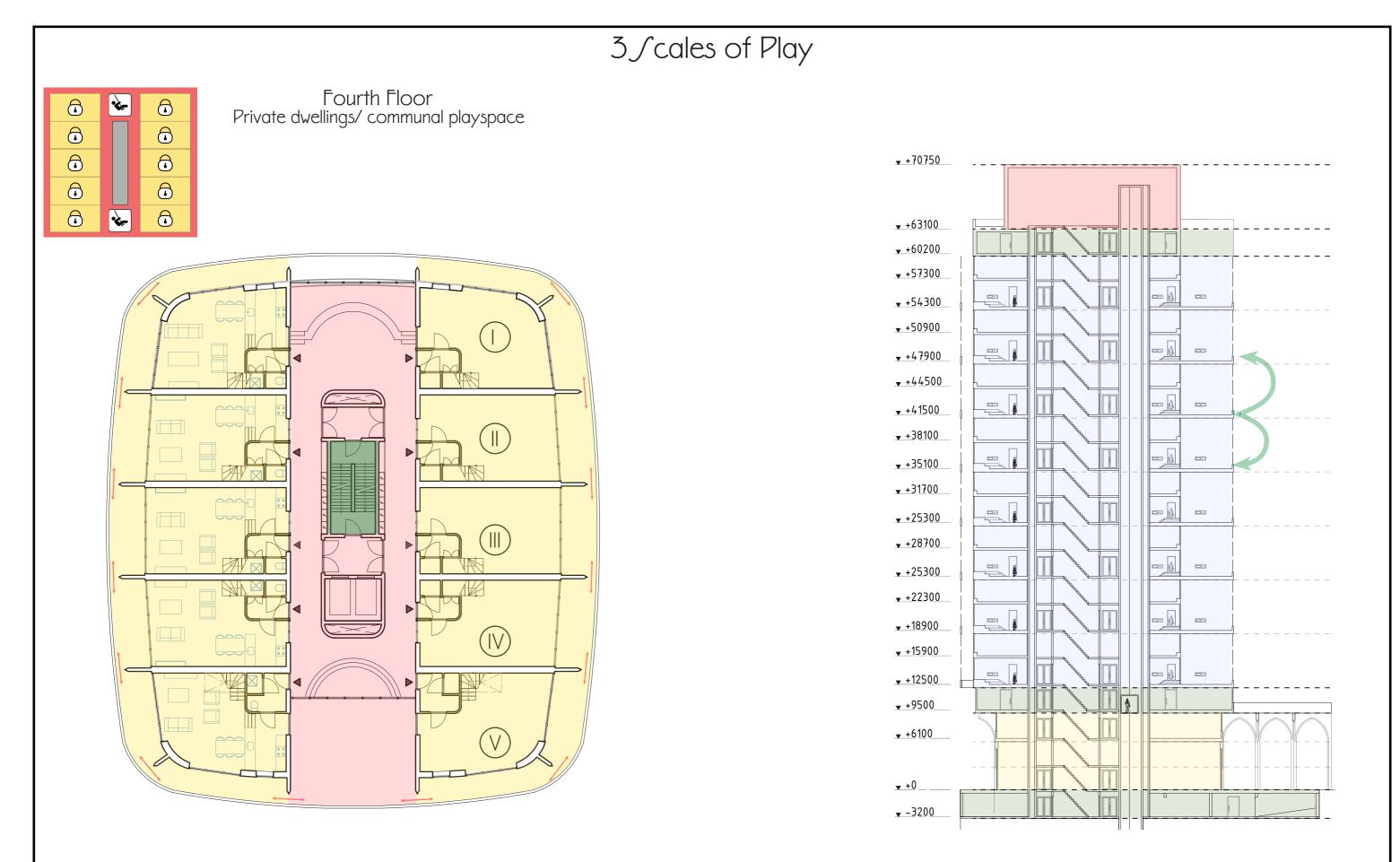
Floorplans Residential Tower 1:200



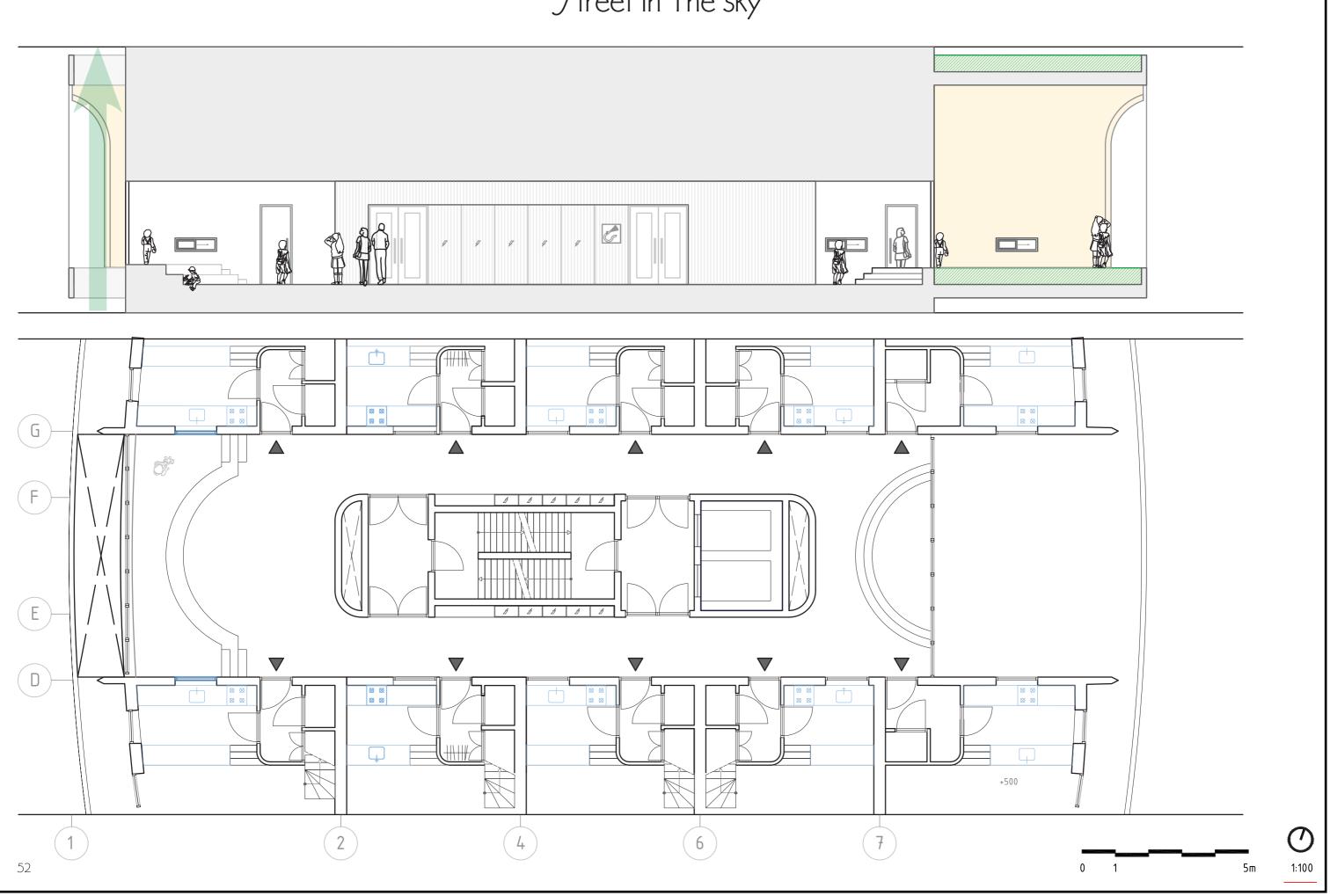


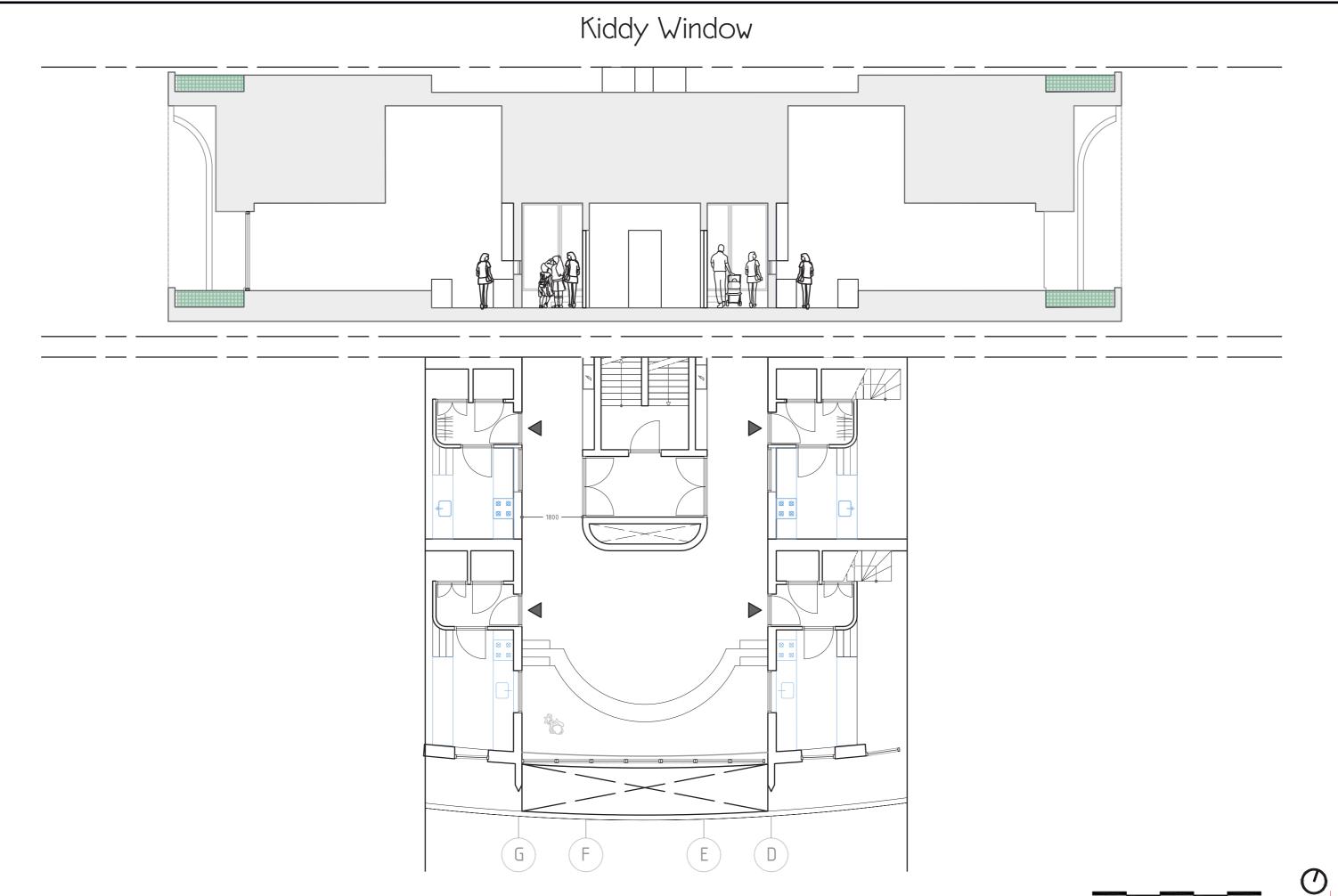


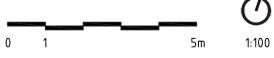
Fifth Floor

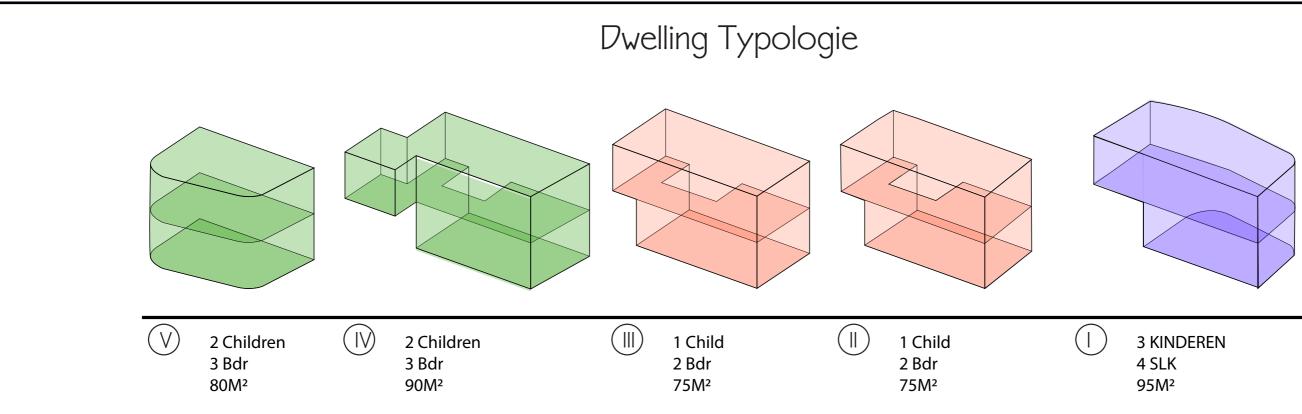


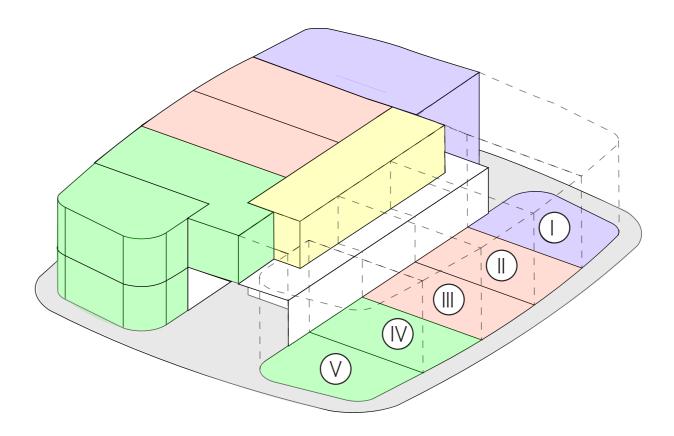
∫treet In The sky

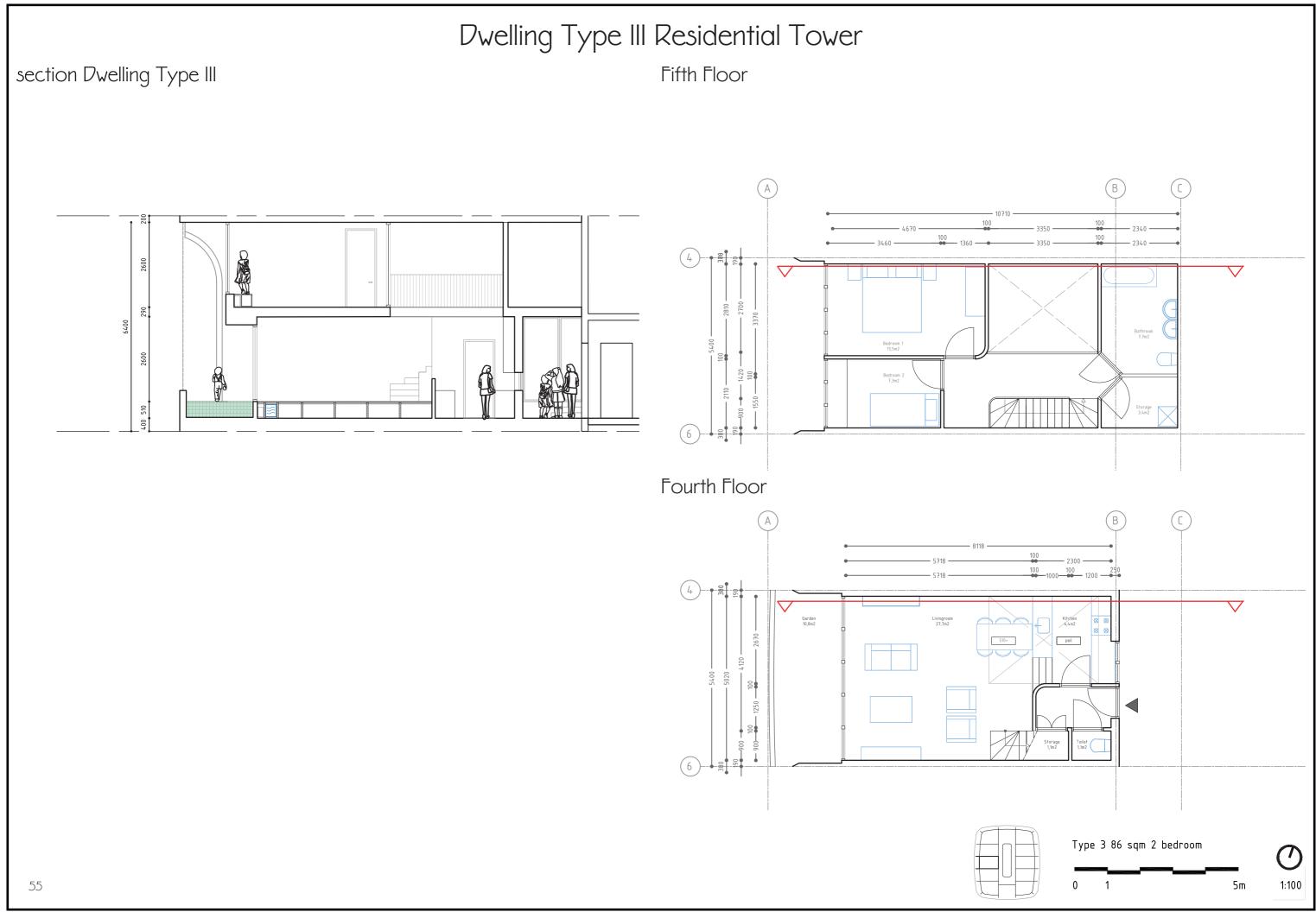


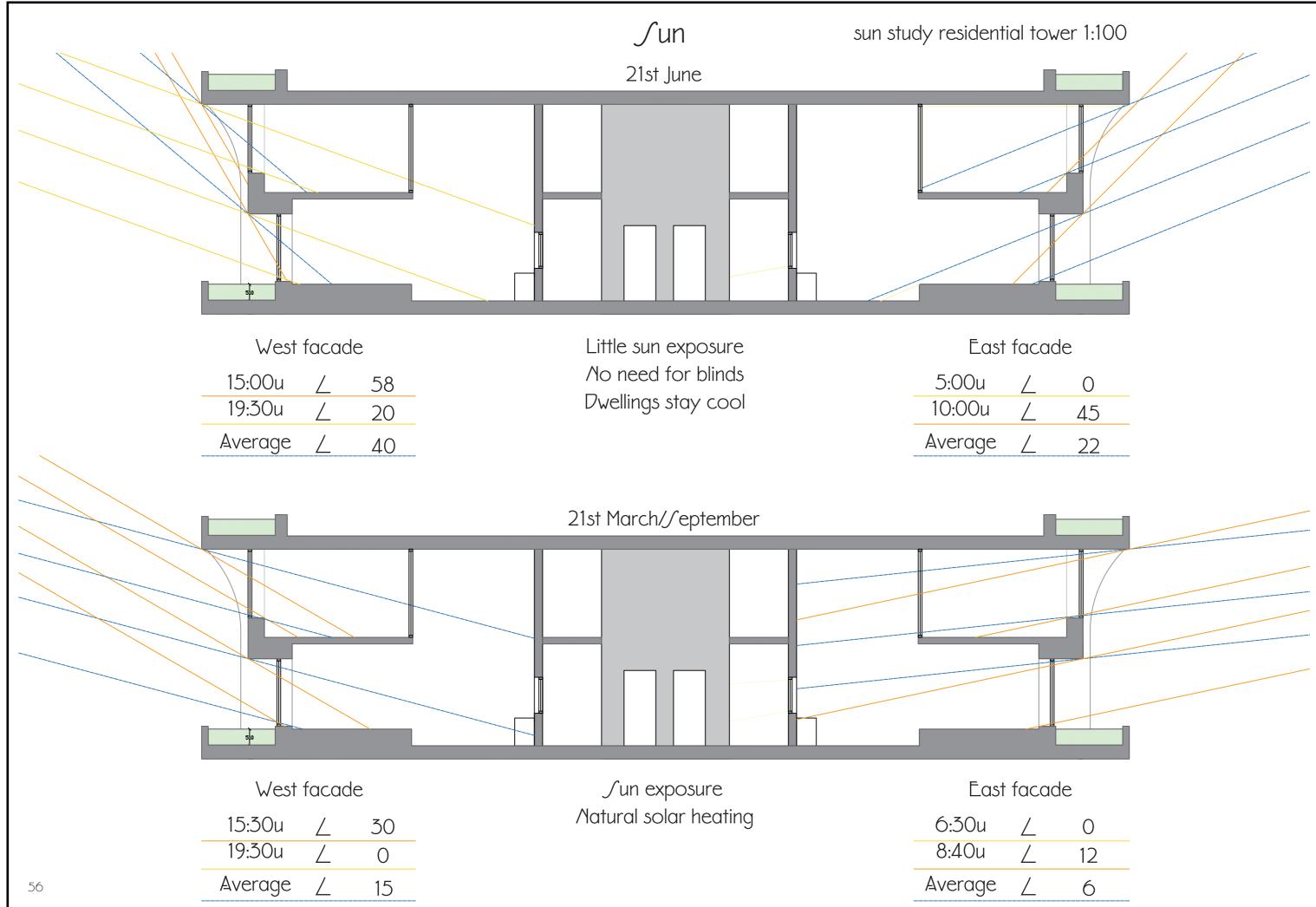








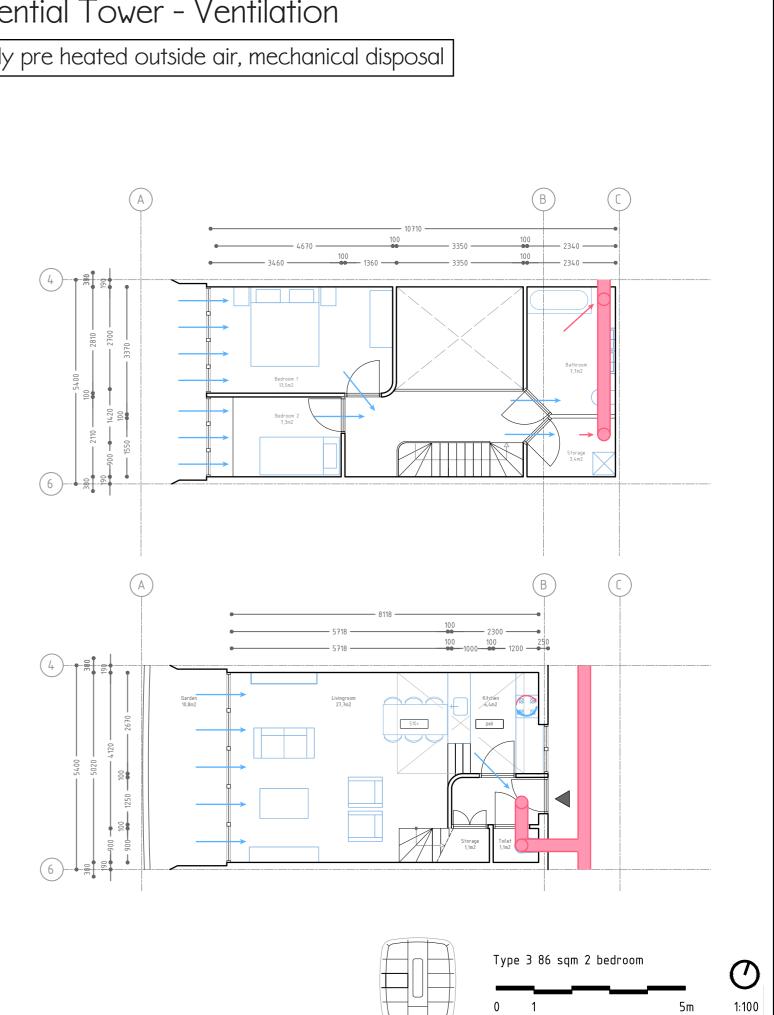


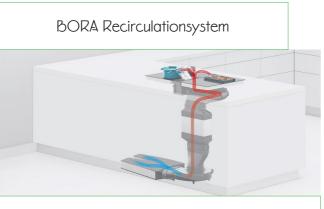


Dwelling Type III Residential Tower - Ventilation

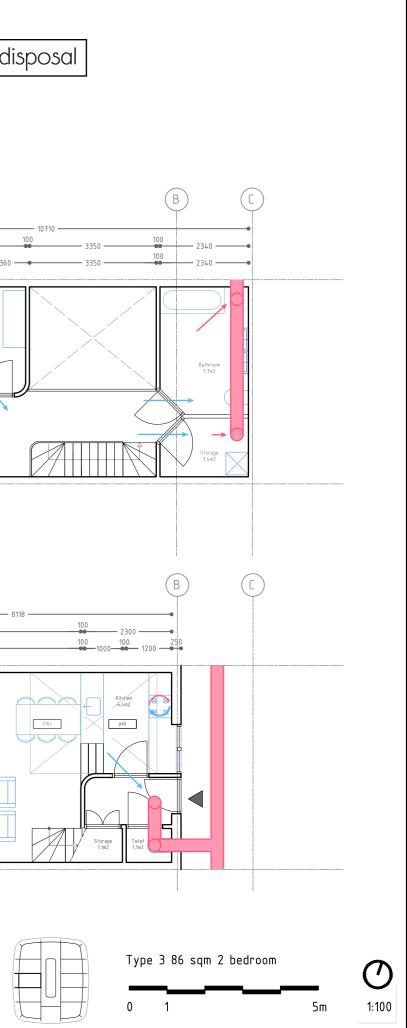
Ventilation system C+ Regulated Electrically pre heated outside air, mechanical disposal

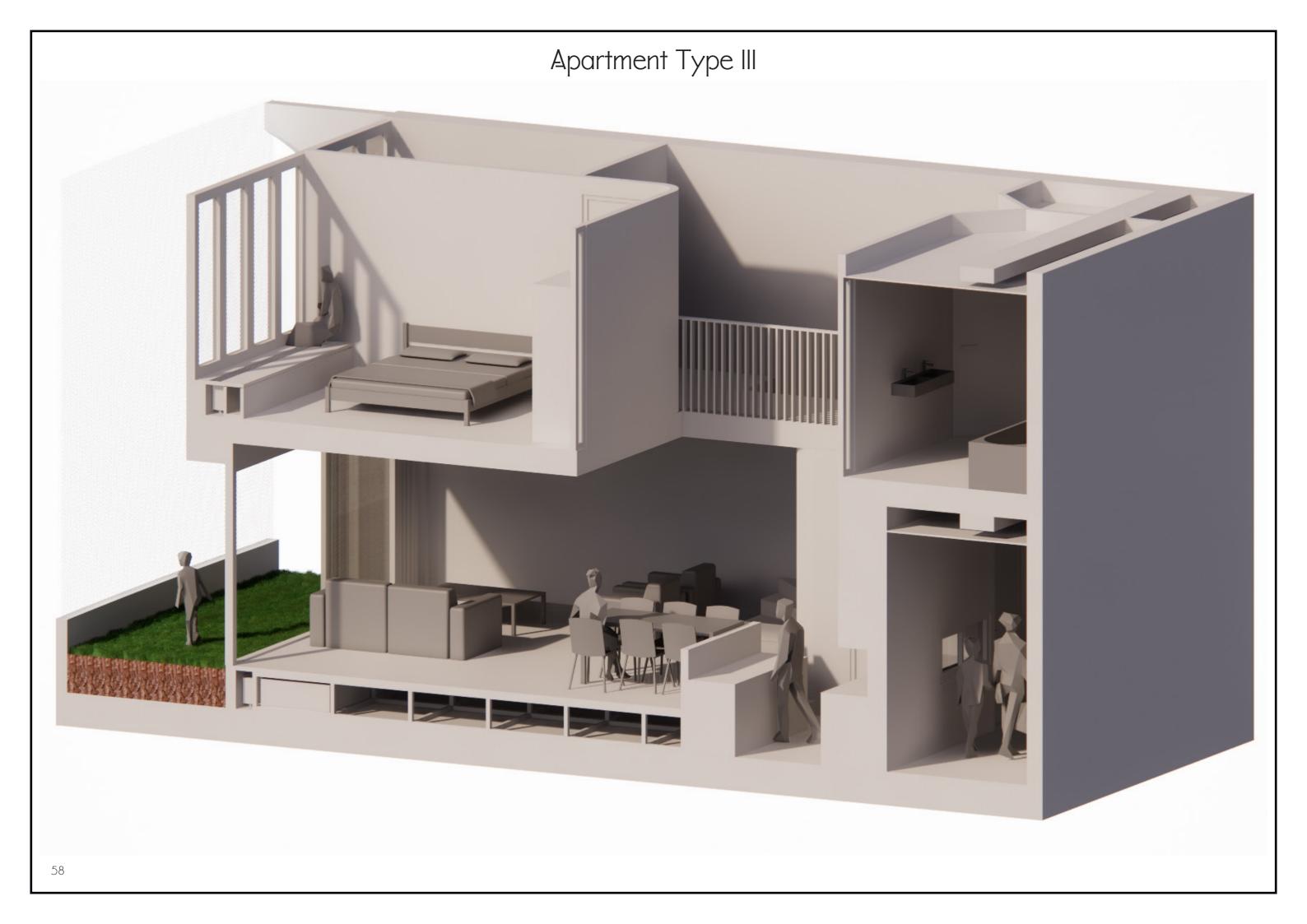




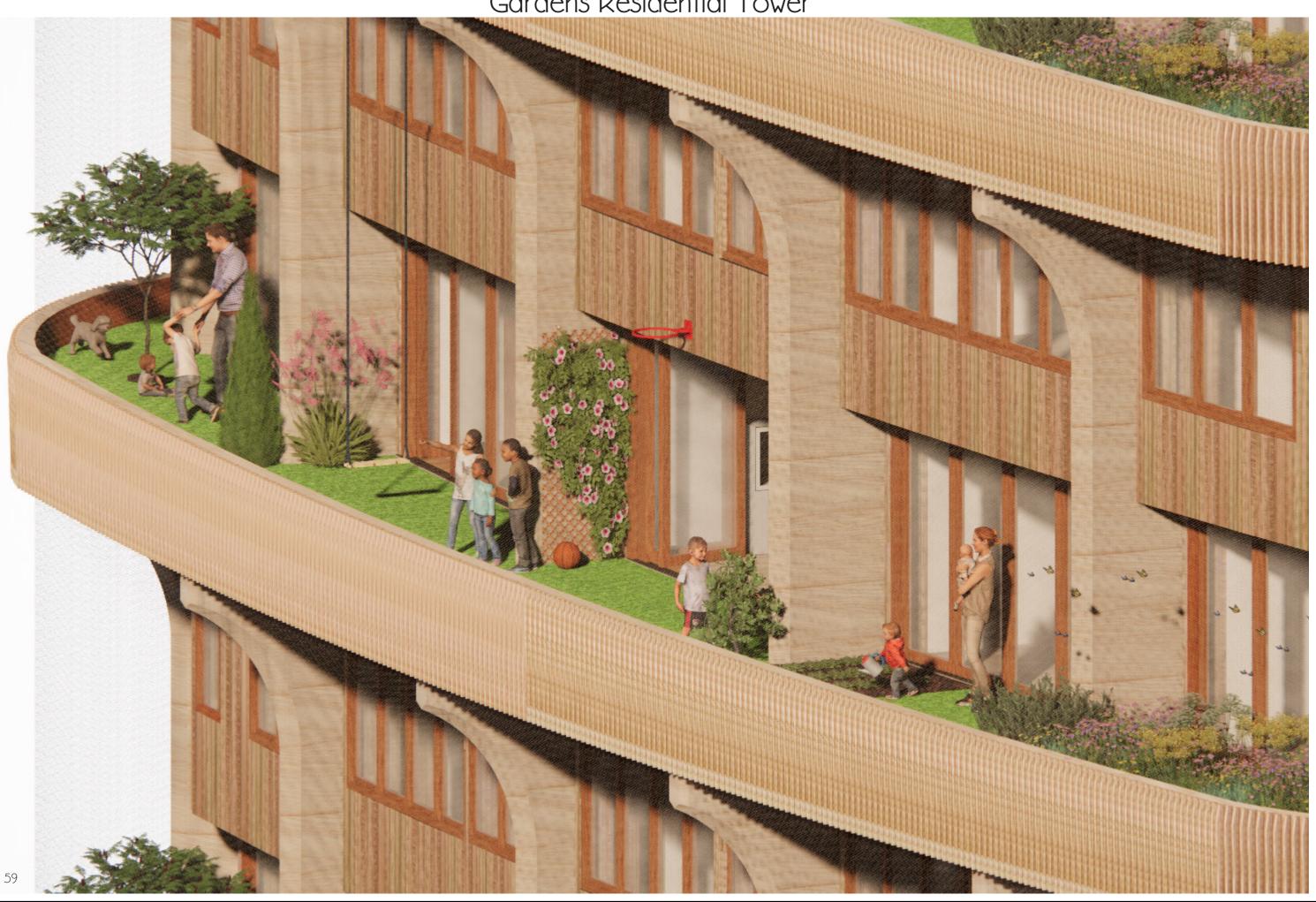


https://www.bora.com/fileadmin/_ processed_/6/0/csm_2021_BORA_Grafiken_ Classic_Umluft_Homepage_736bbec28e.jpg.webp





Gardens Residential Tower

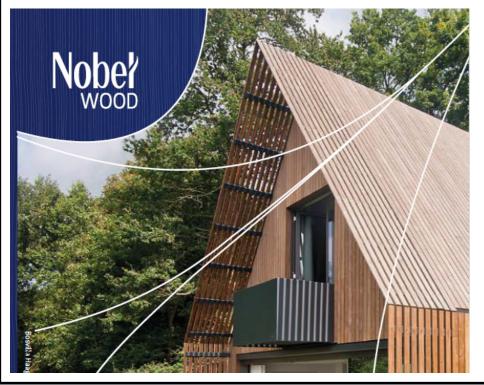


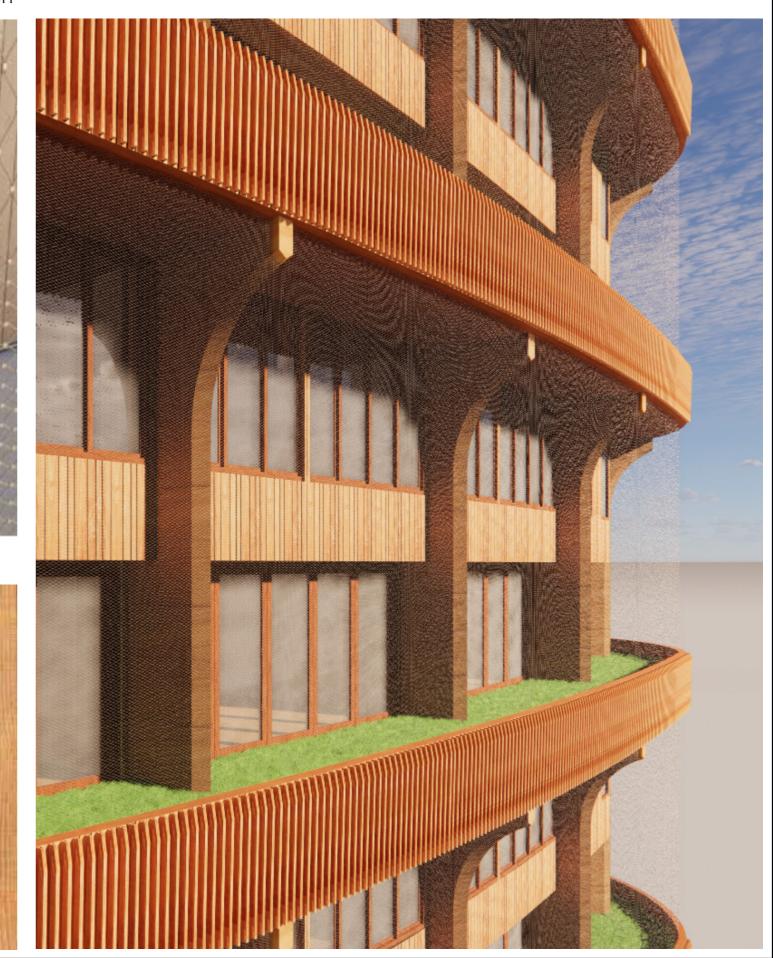
Materialisation

Carlstahl Xtend Colours Gold - Anti Climbing Floor to ceiling fall protection



Nobel Wood Cladding



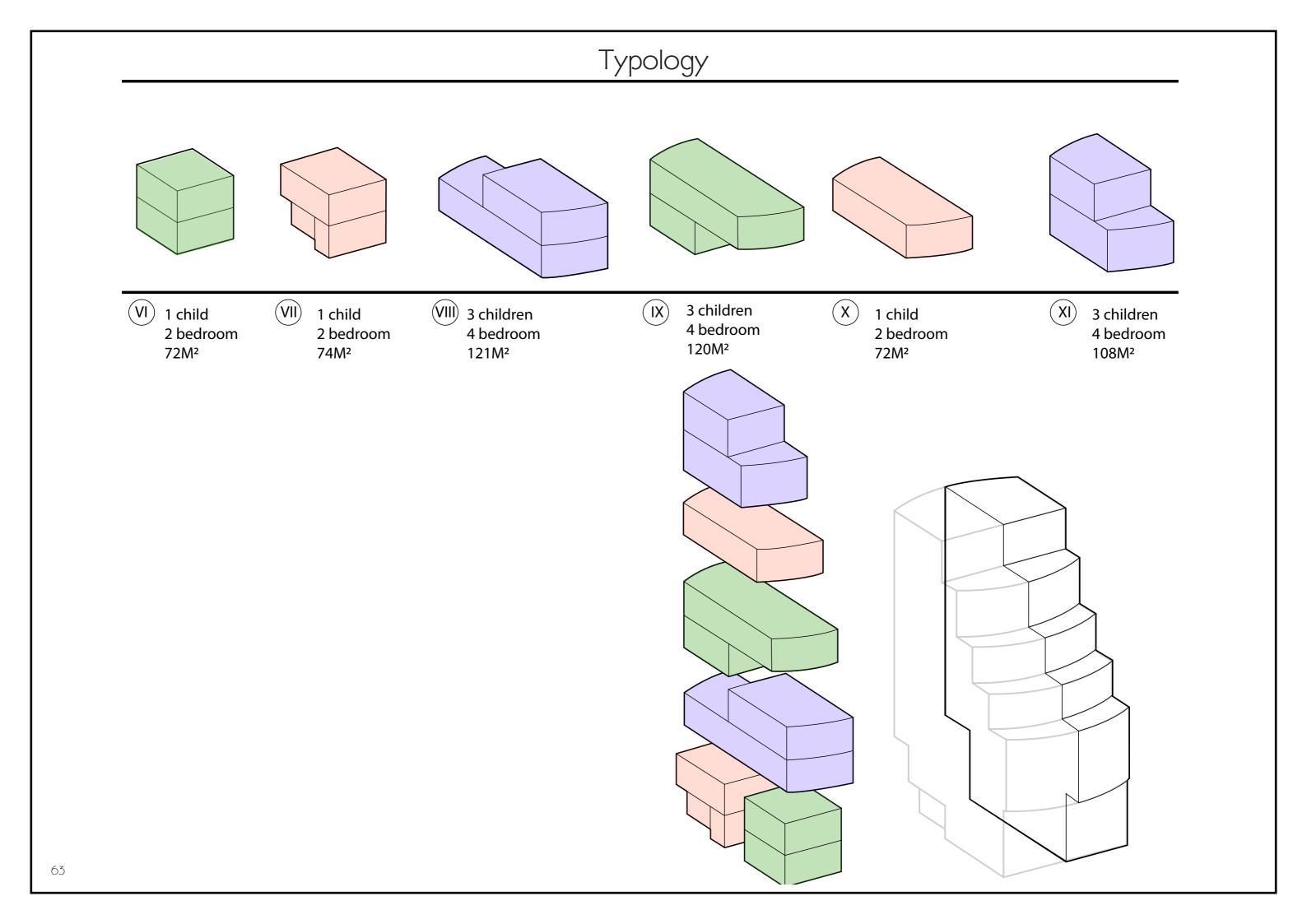


Materialisation

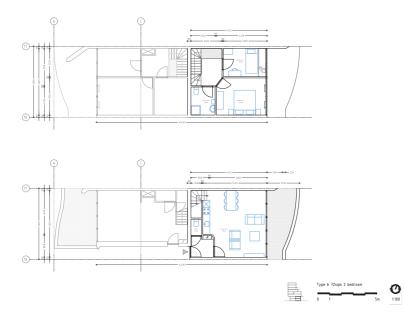
Ageing Nobelwood

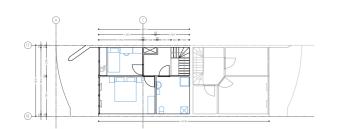


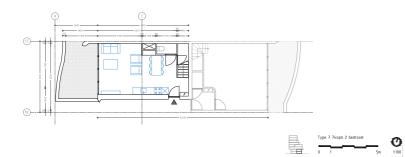


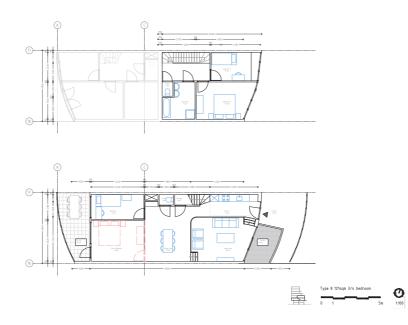


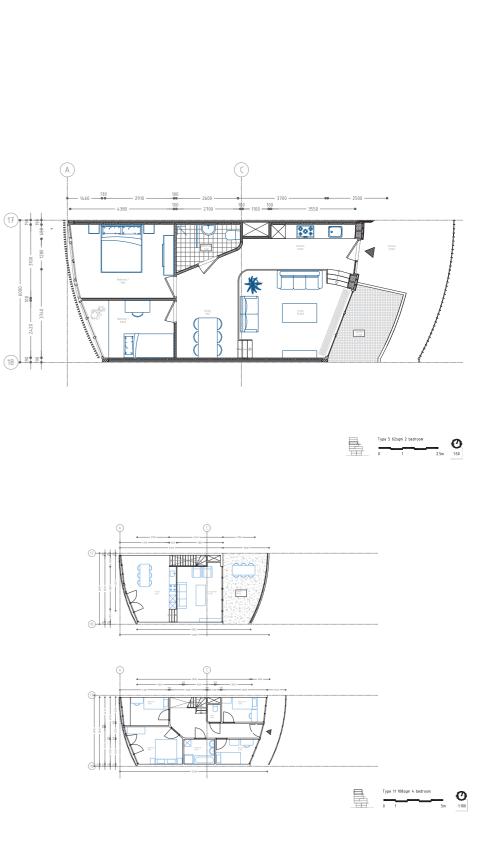
Typology

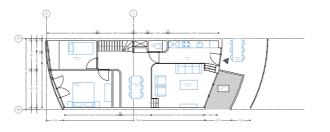


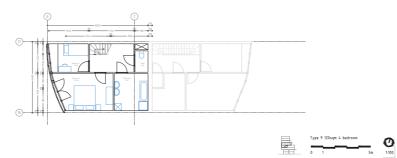


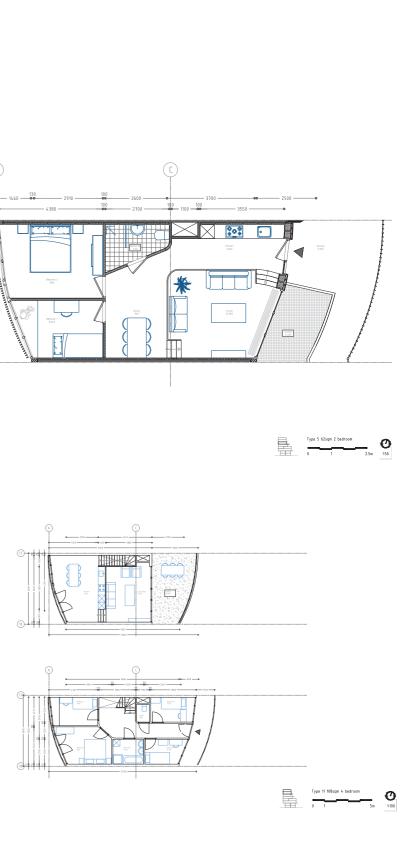




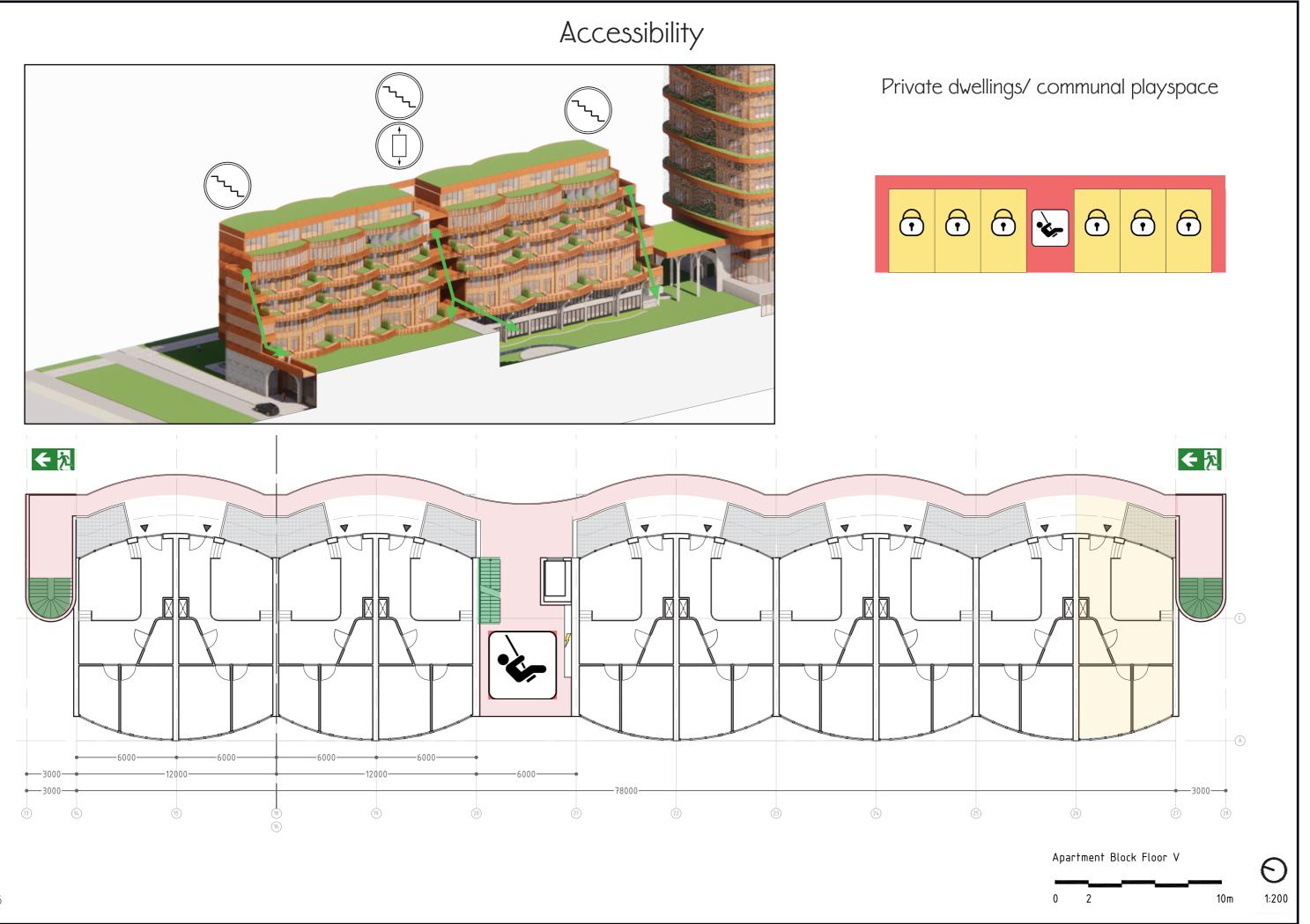




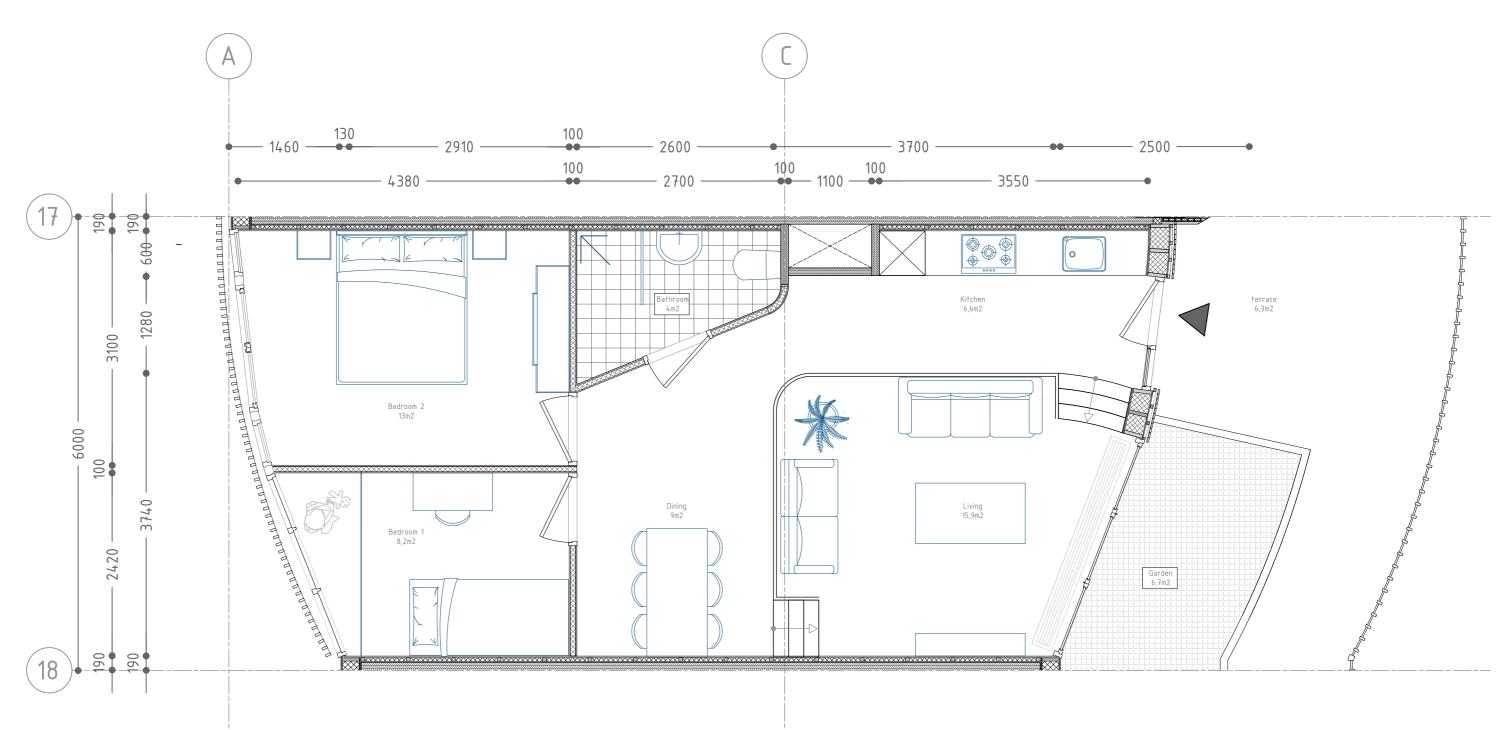




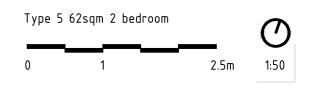


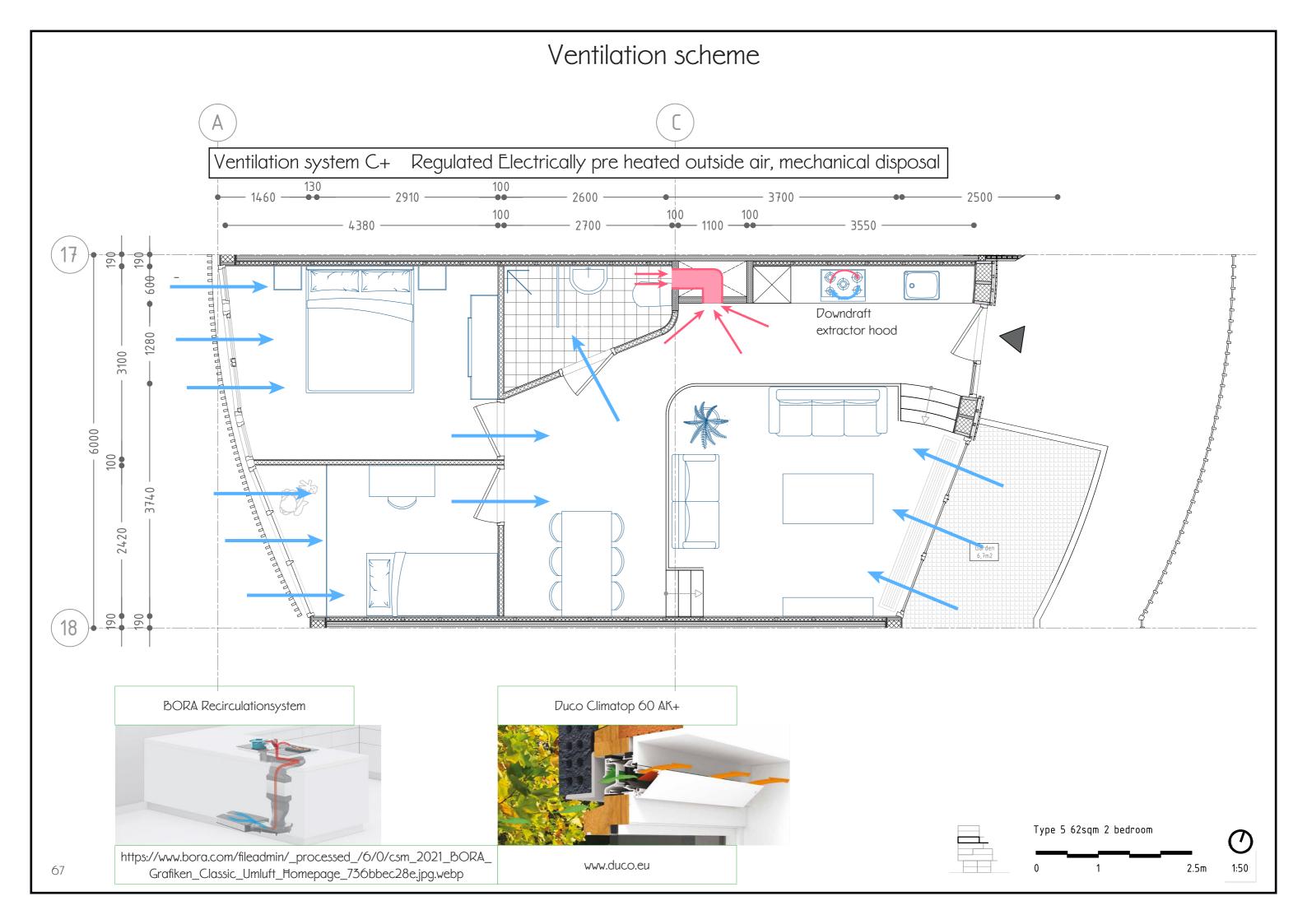


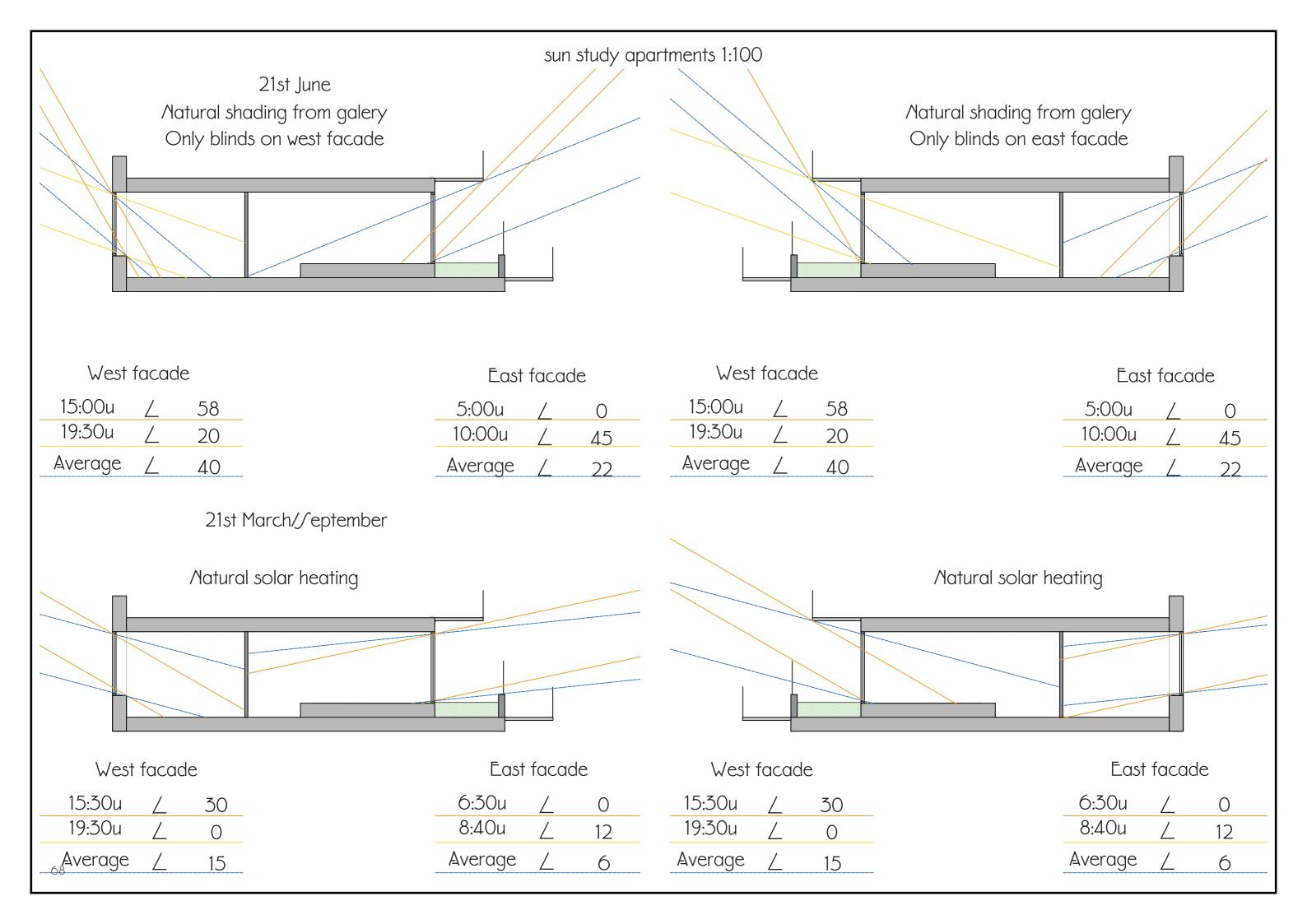
Apartment Type X

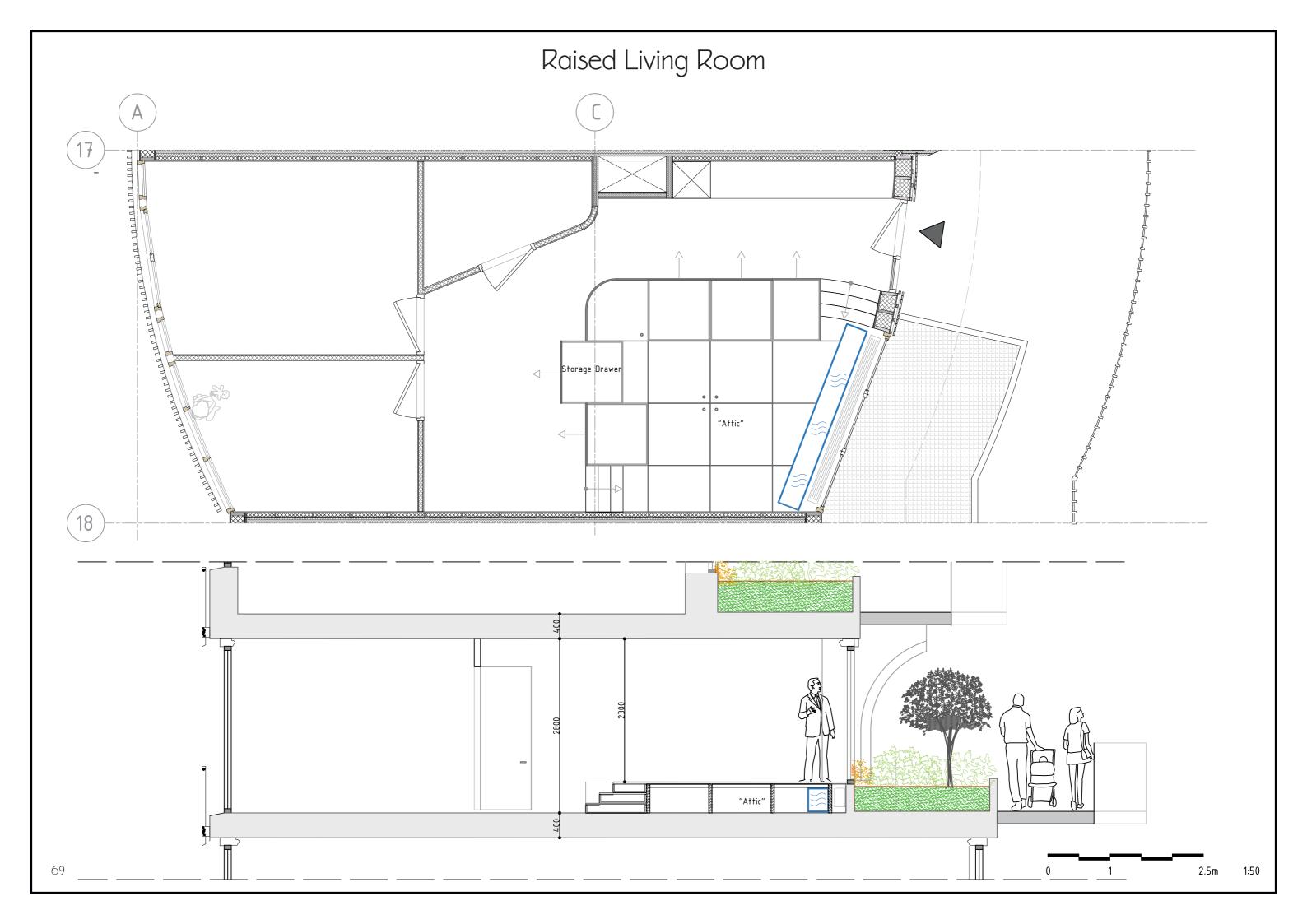


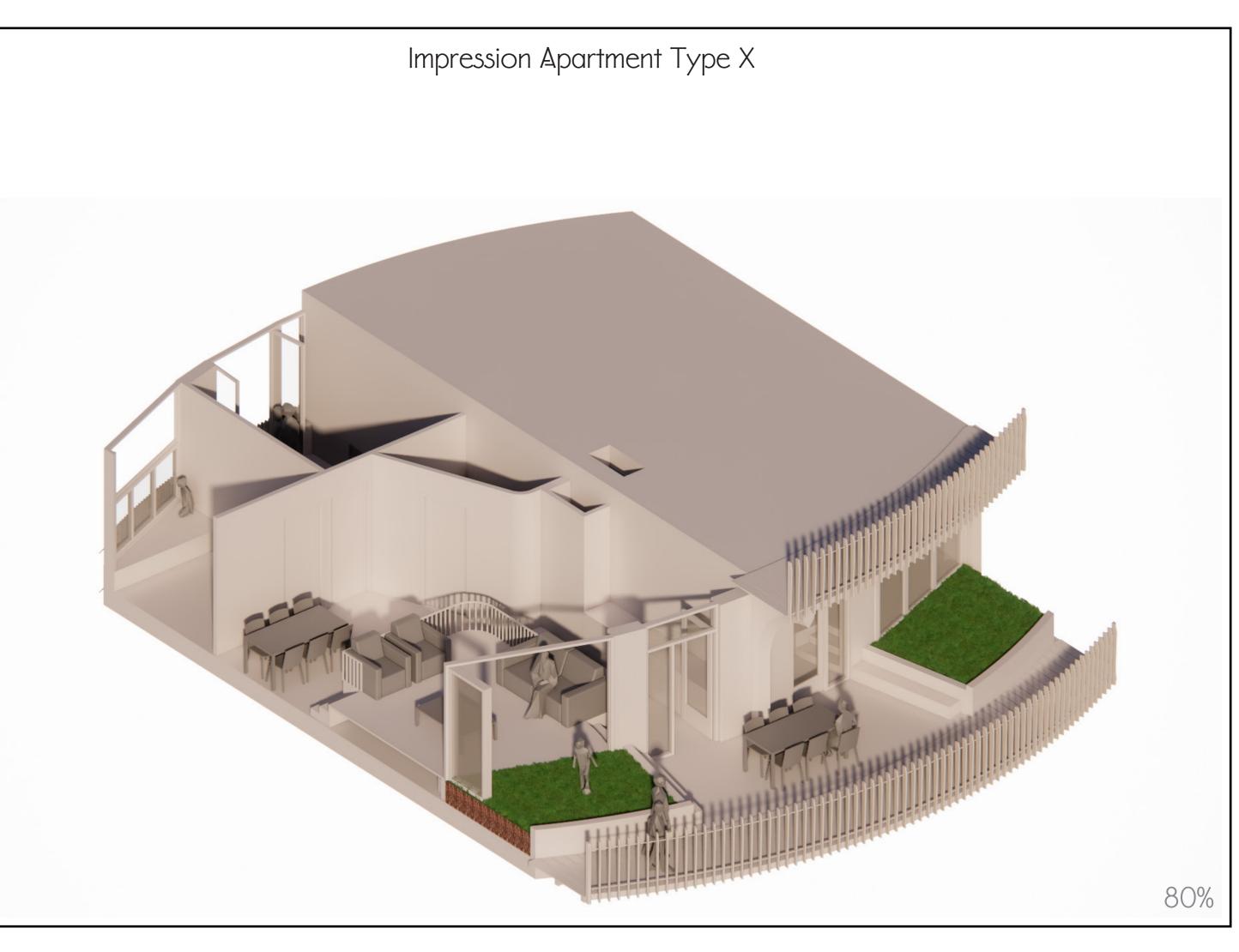


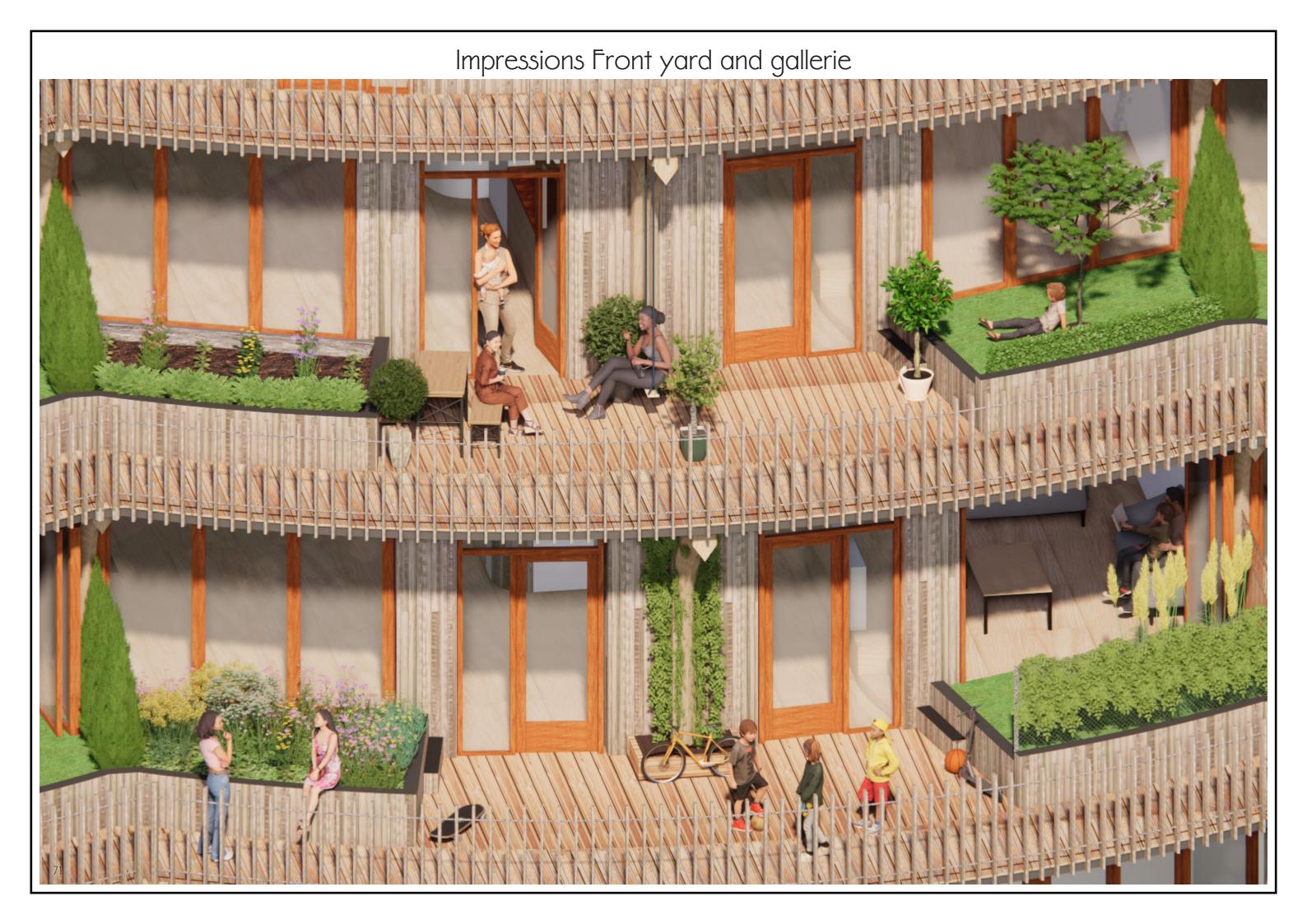








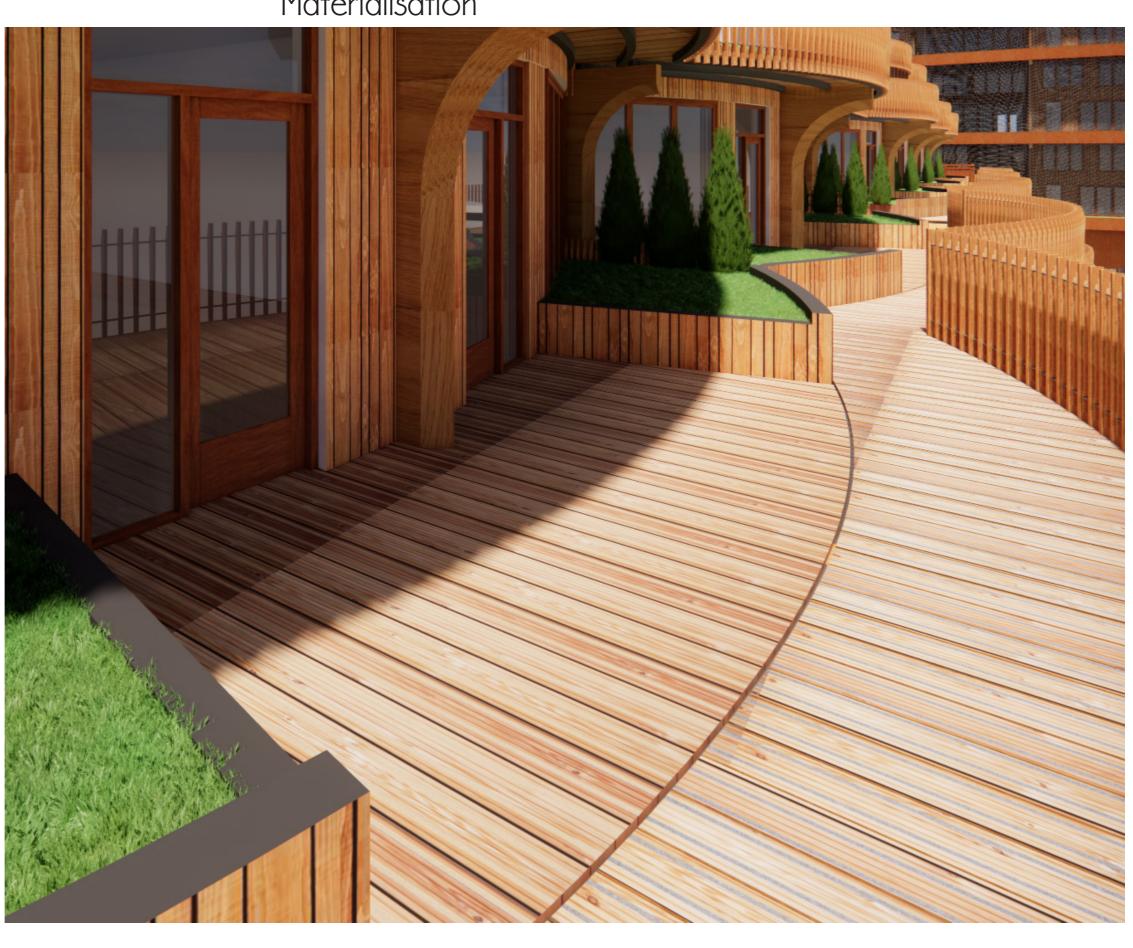




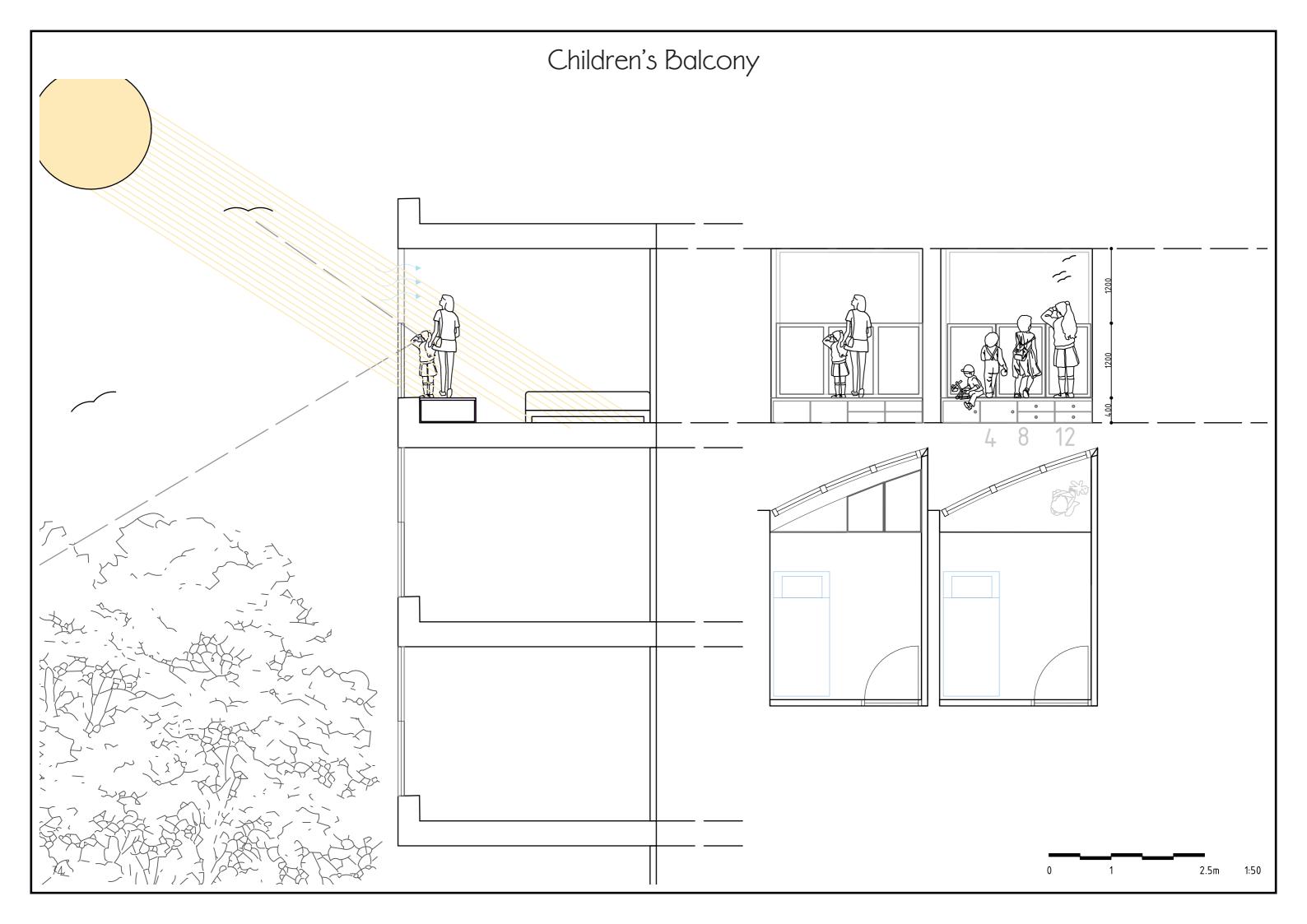


Larch Decking Antislip - Galery

Materialisation









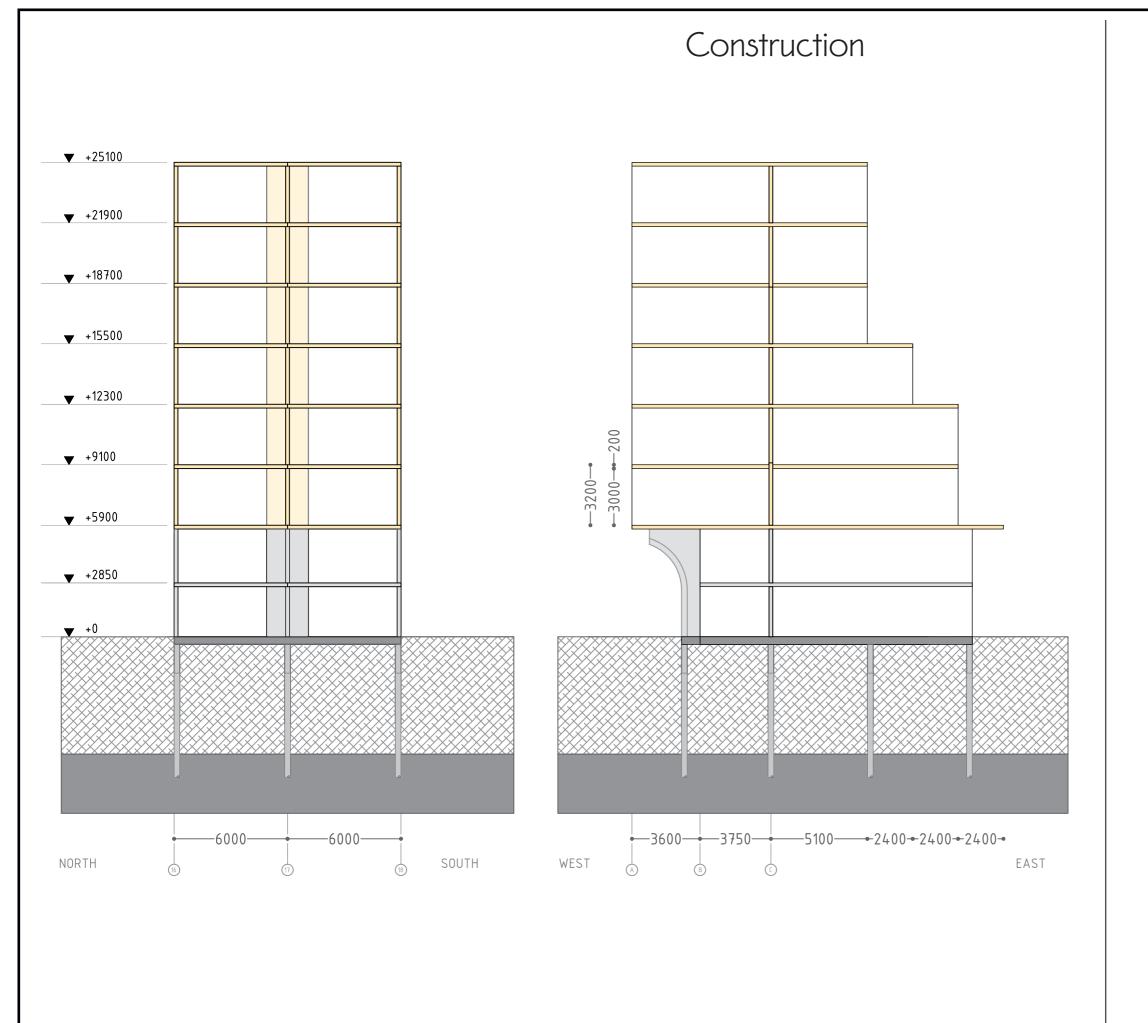
Materialisation

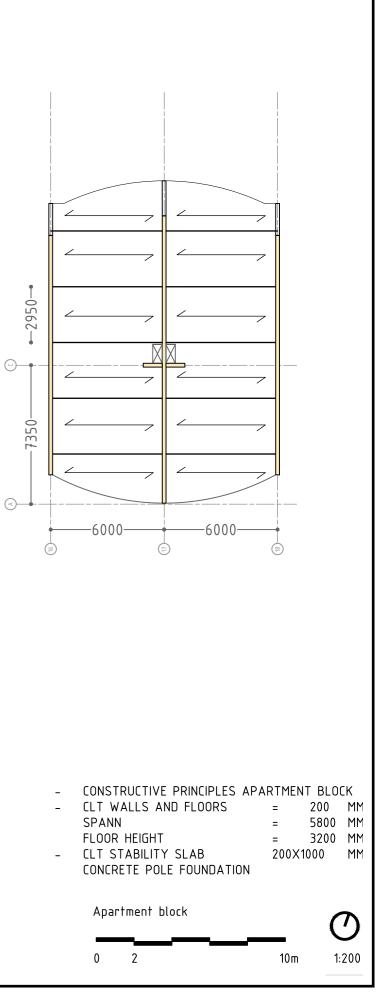


Nobelwood - Facade cladding and railing.

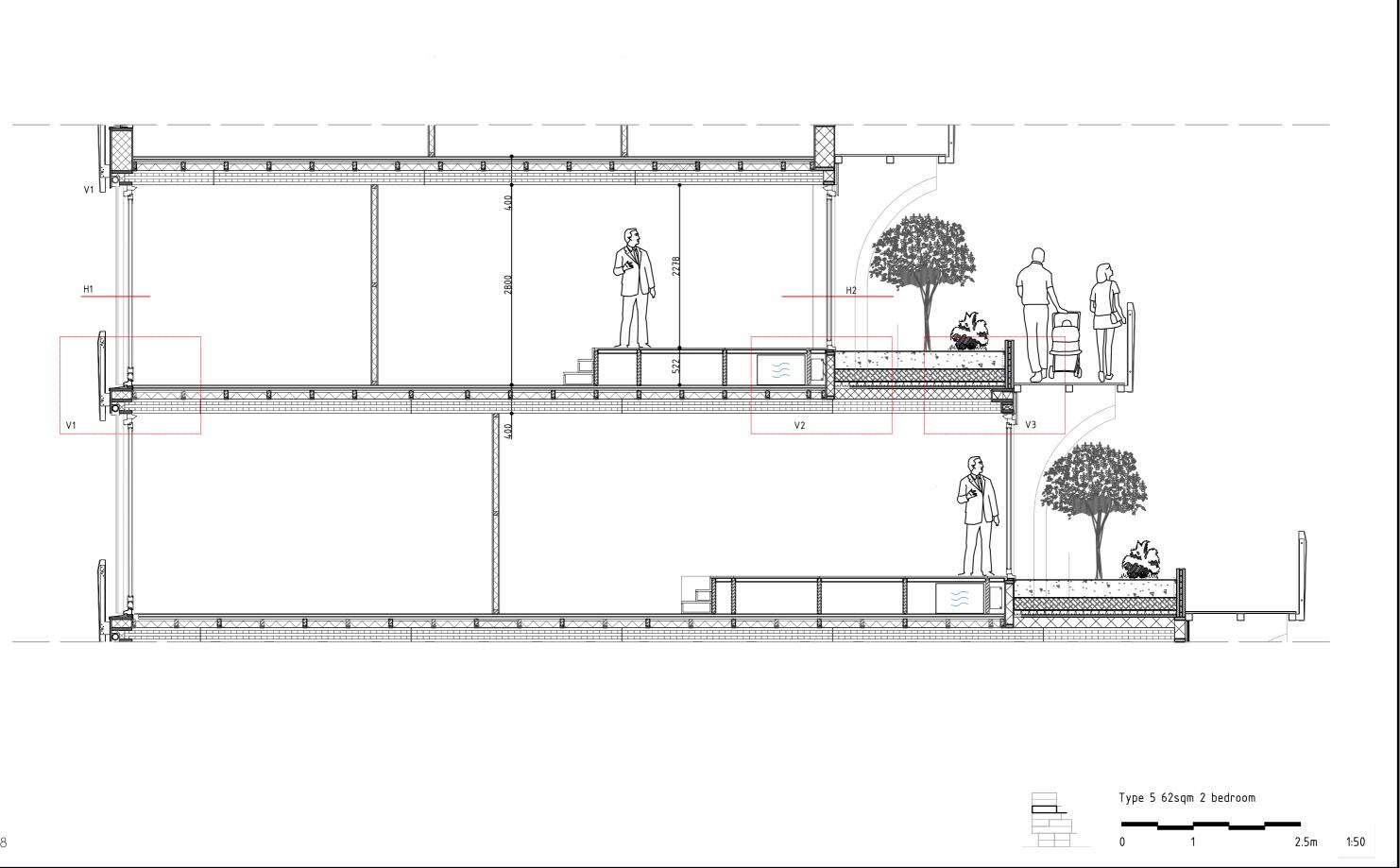


Nobelwood - Facade cladding and railing. Weathering will eventually turn the facades a natural grey. shadowing will provide variation in the facade.

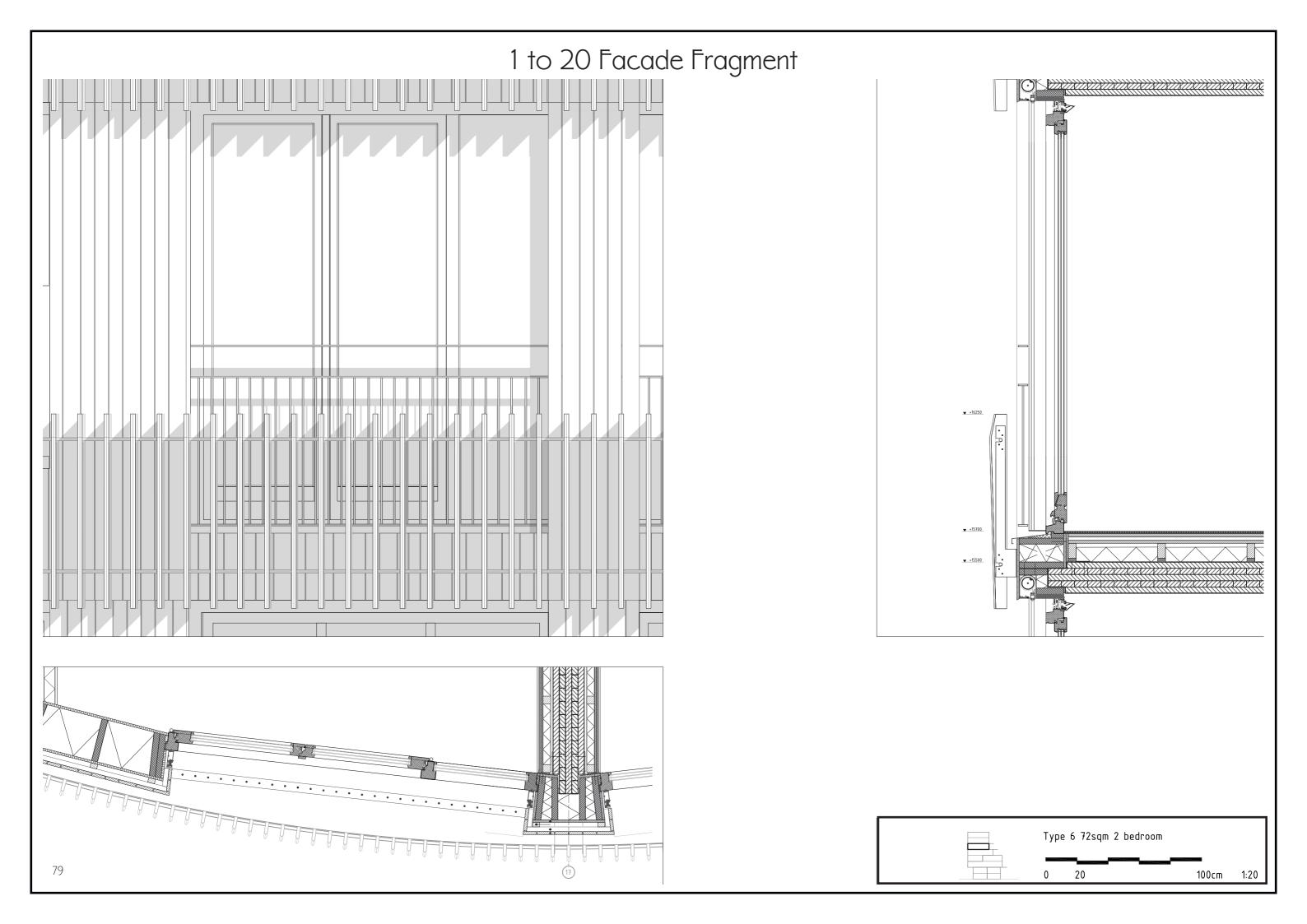




Overview Construction Details







Exploded View Facade Element



Multiplex interior finish

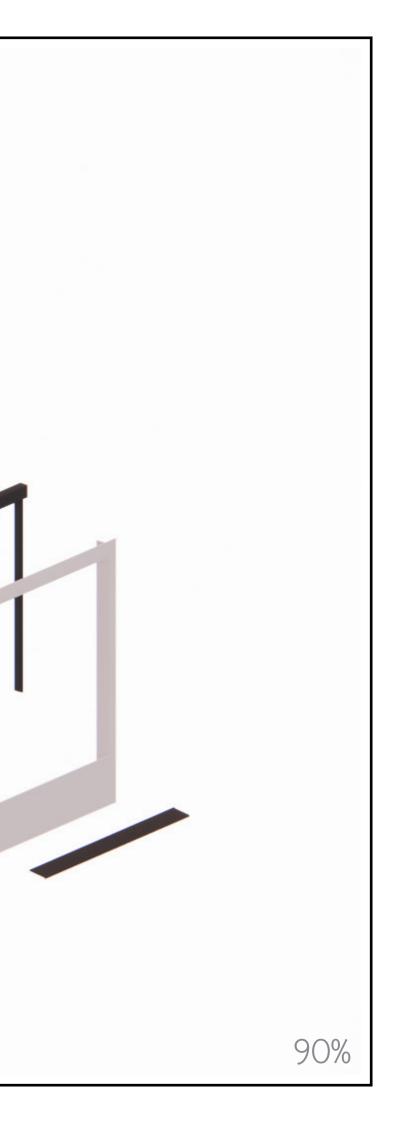
Timber frame

Reedmace insulation

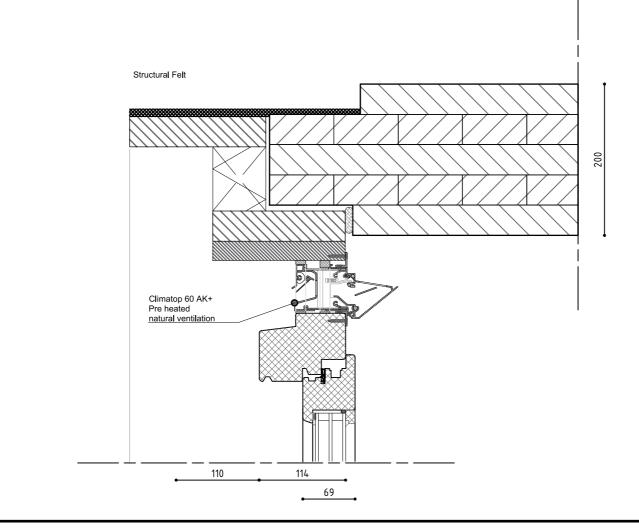
Vapor open foil **S**unscreen

Boarding

Windowsill

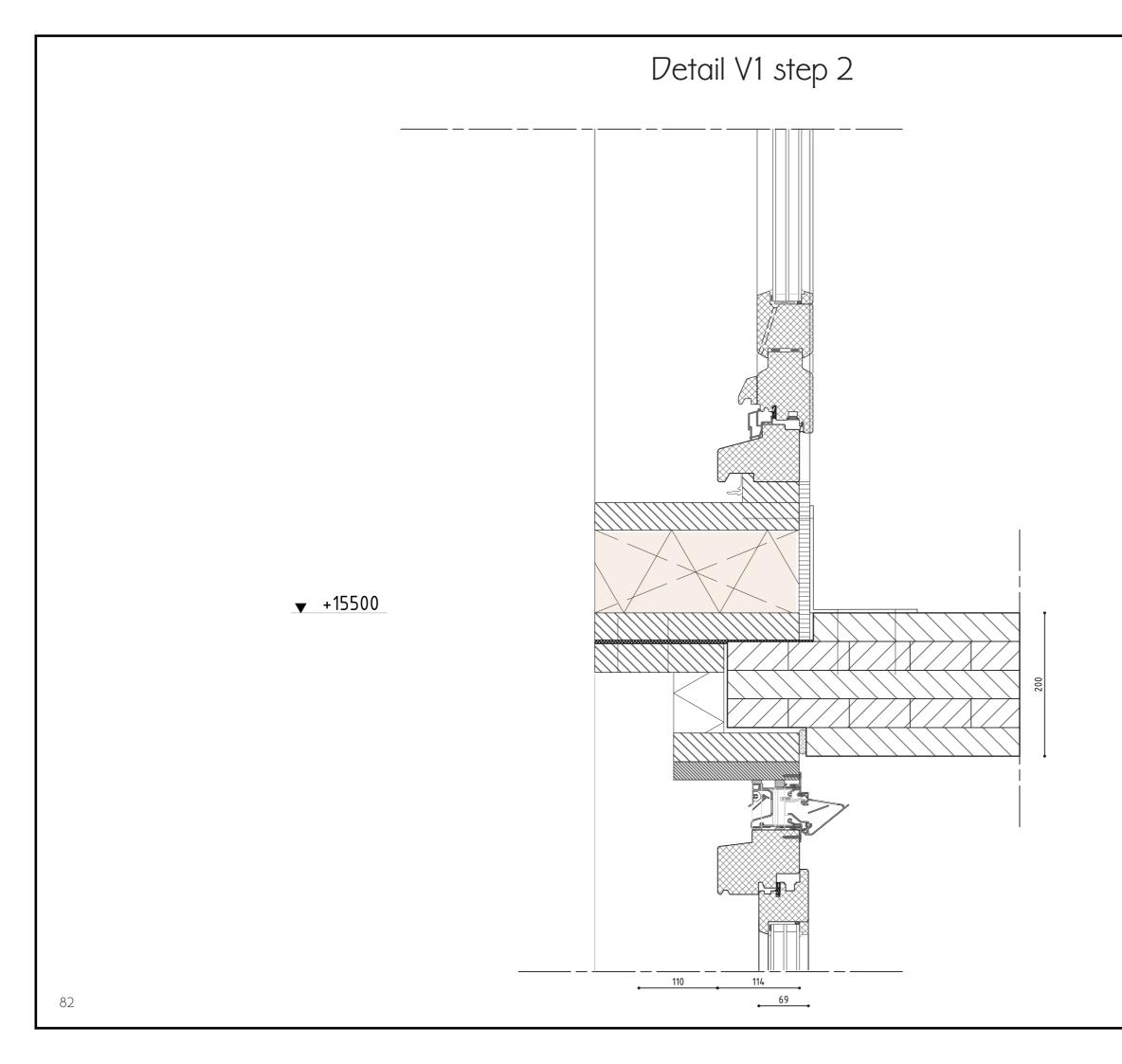


Detail V1 step 1

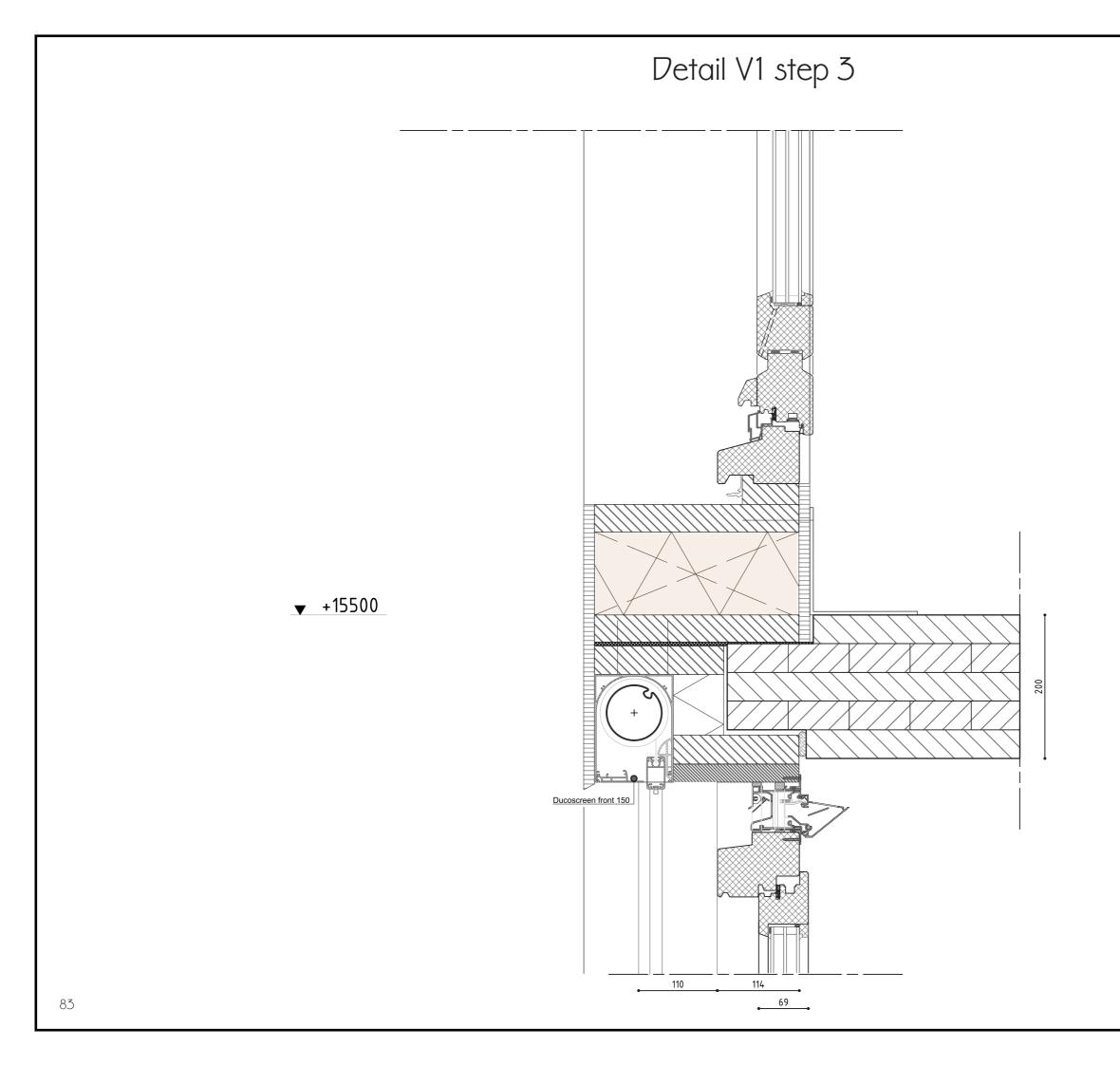




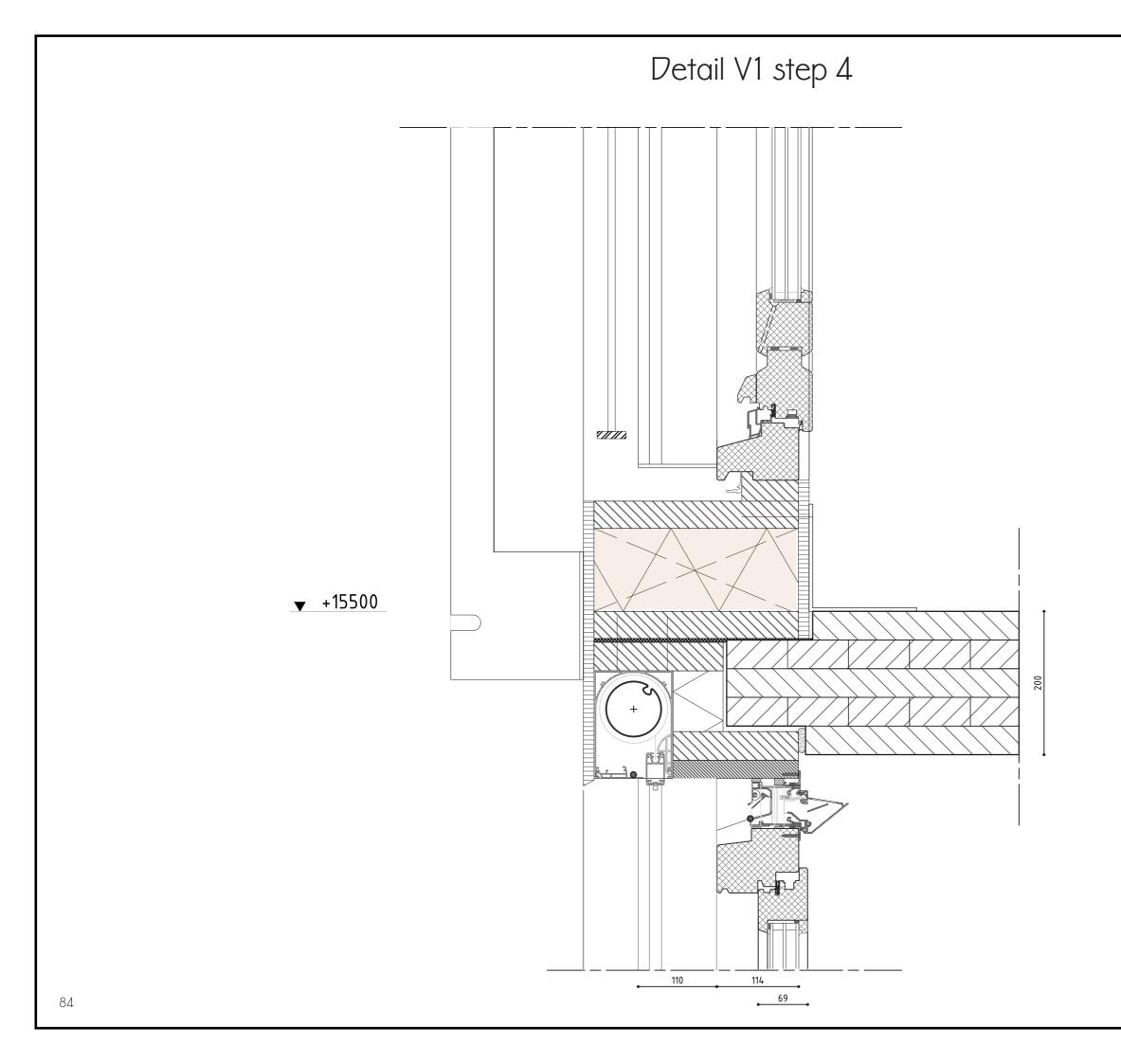
Detail Separa	V1 Iting Floor street	facade	
0	10	25cm	1:5



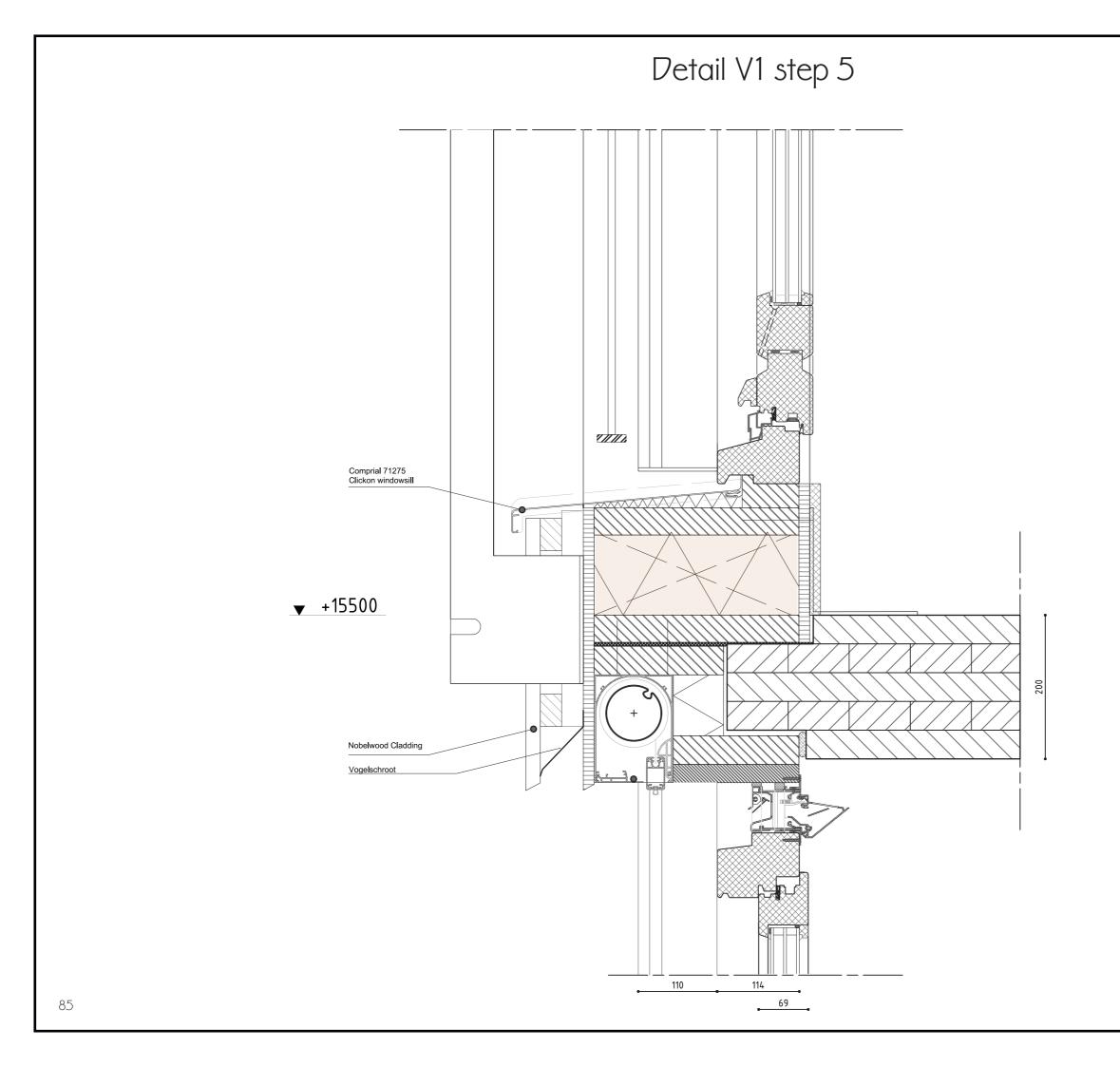
Detail V Separati	1 ng Floor stre	et facade	
0	10	25cm	1:5

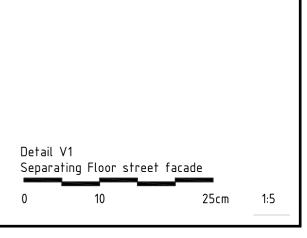


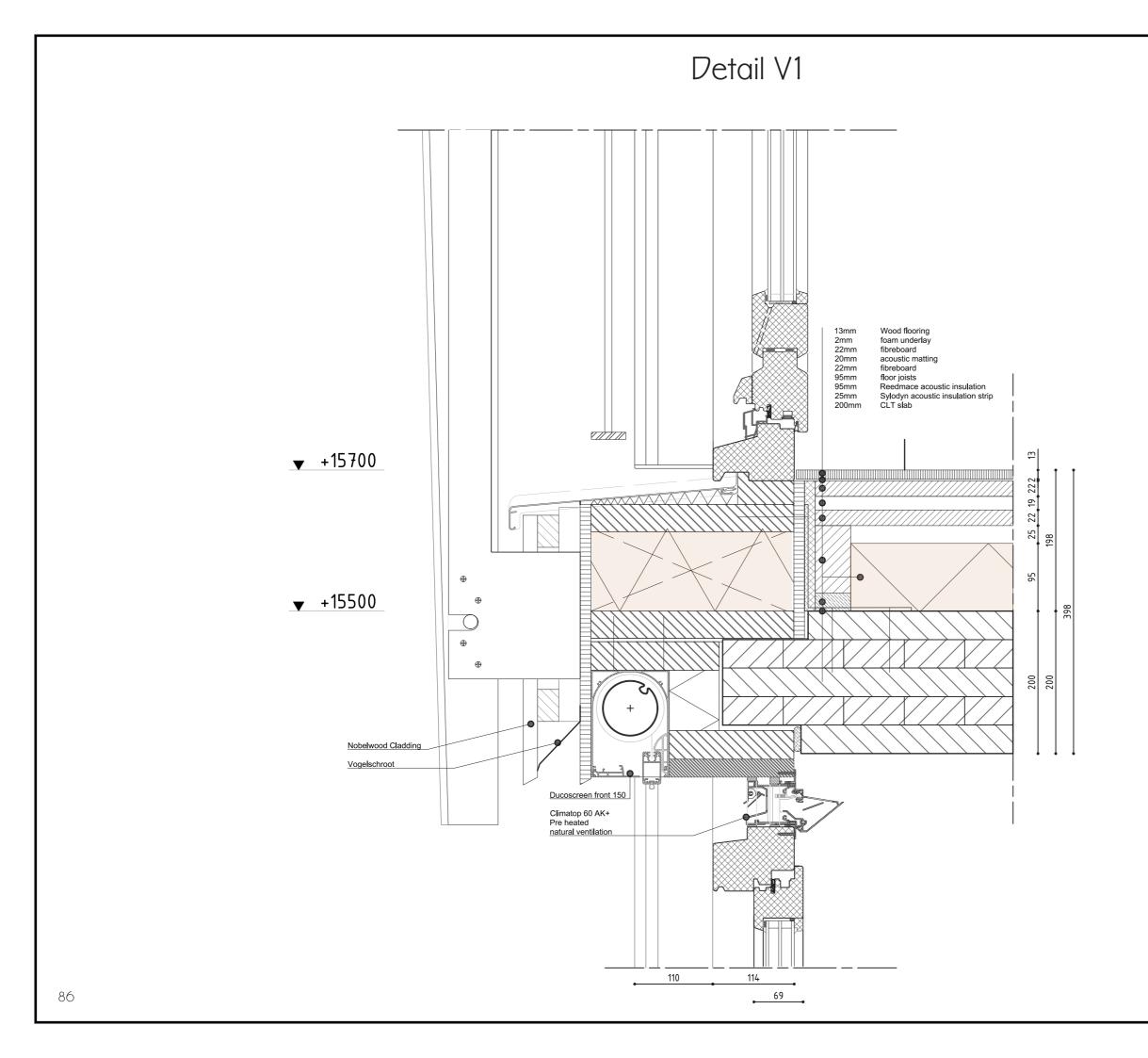
Detail V Separati	1 ng Floor street	facade	
0	10	 25cm	1:5



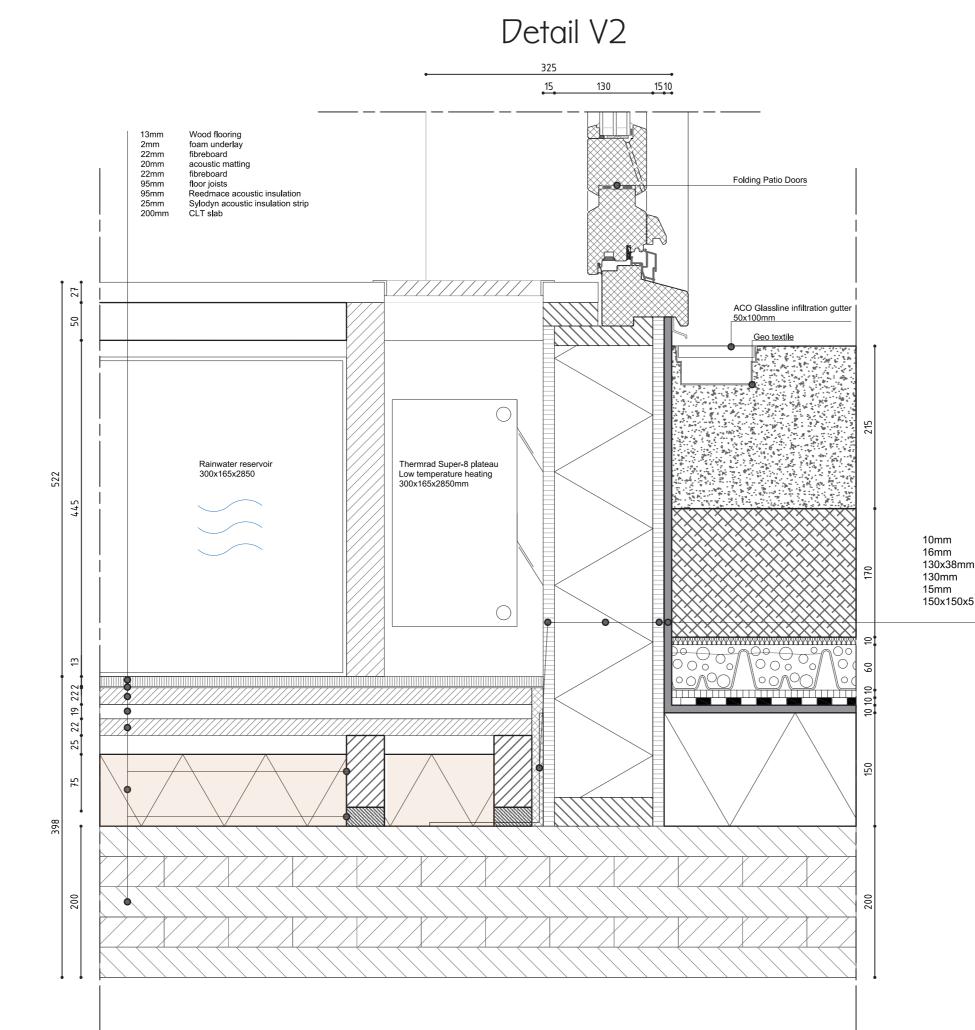
Detail			
Separa	ting Floor street	facade	
0	10	25cm	1:5





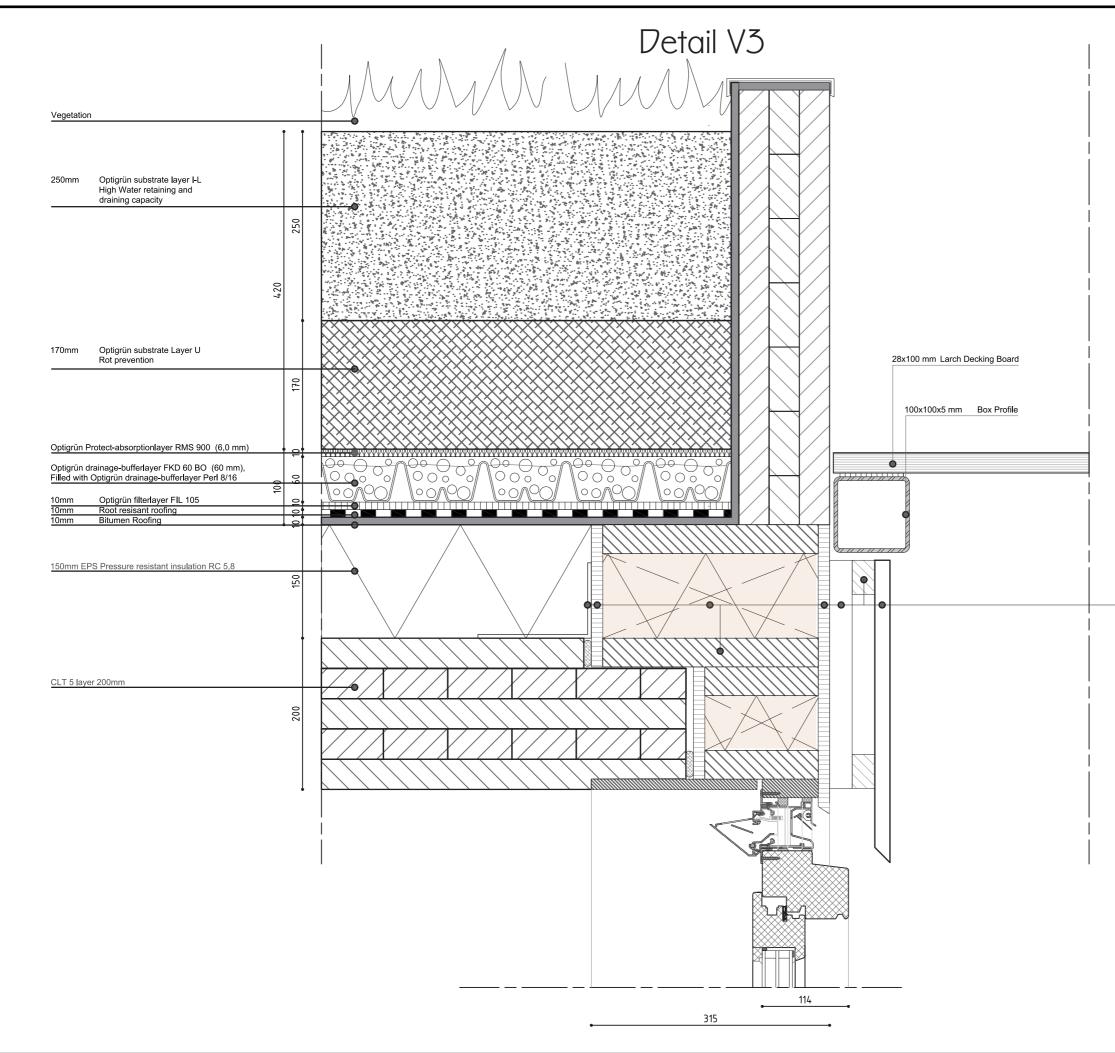


Detail V1 Separating	Floor street	facade	
0	10	25cm	1:5



	Bitumen
	Damp open water resistant fiberboard
n	Studs
	EPS Insulation RC 5
	Multiplex Construction plate
5 mm	Angle steel

Detail V2 Separatir	ng Floor Garder	1
0	10	25cm

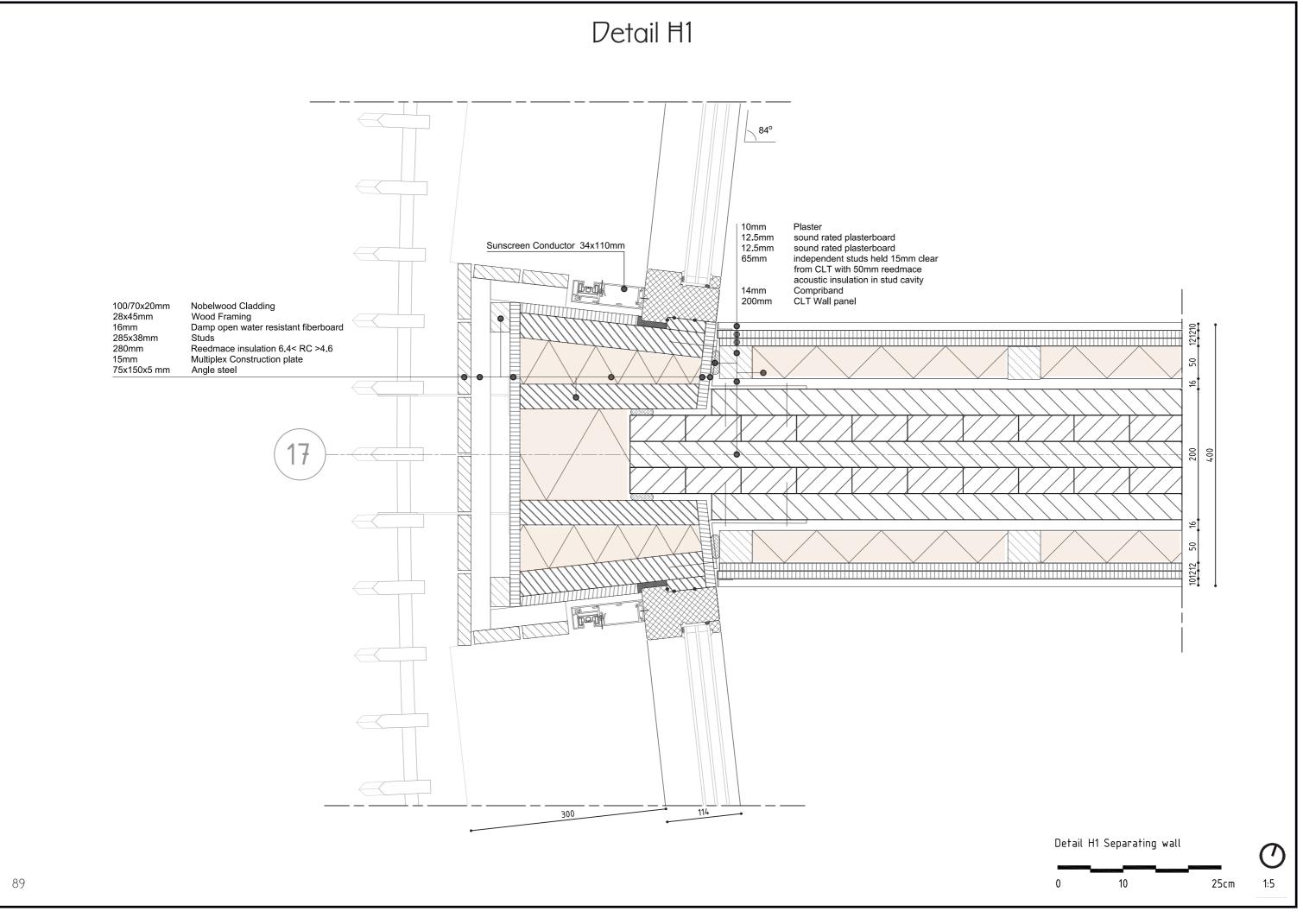


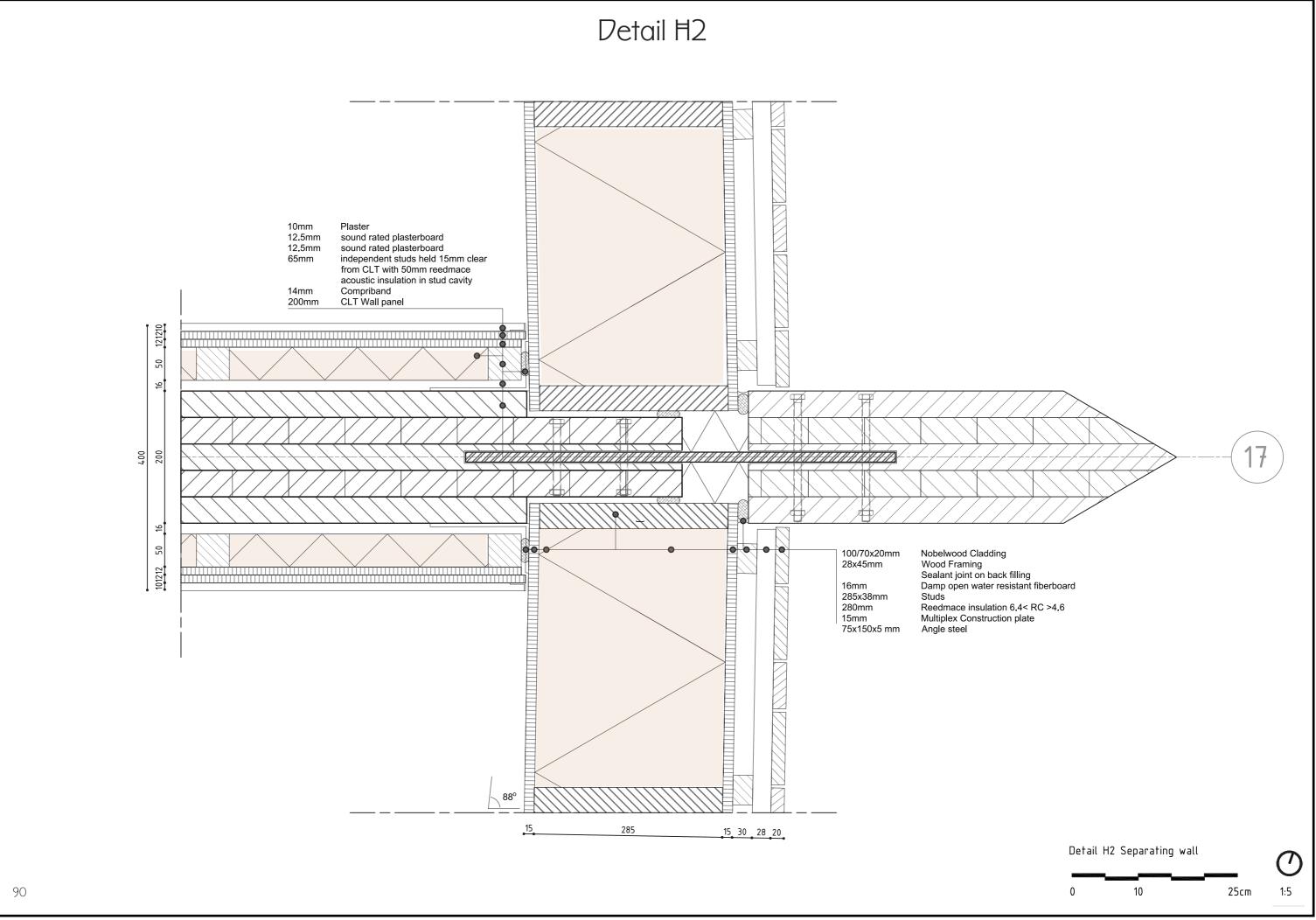
100/70x20mmNobelwood Cladding28x45mmWood Framing16mmDamp open water resistant fiberboard285x38mmStuds280mmReedmace insulation 6.4< RC >4.615mmMultiplex Construction plate75x150x5 mmAngle steel

Detail V3	
Separating Floor Garden Galer	у

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Discussion

How to design a residential building for young urban families in a highly urban environment that makes nature an inherent part of the architecture by using a holistic human-nature relationship as a guiding theme

How to design a residential building for young urban families in a highly urban environment that makes nature an inherent part of the architecture by using a holistic human-nature relationship as a guiding theme

Have I made nature an inherent part of the architecture?

The transition between inside and out was softened

Jpaces for flora and fauna were created but human interests still came first

The building provides opportunities to interact more with nature and to understand nature deeper. However, it is still up to the inhabitants to follow through.