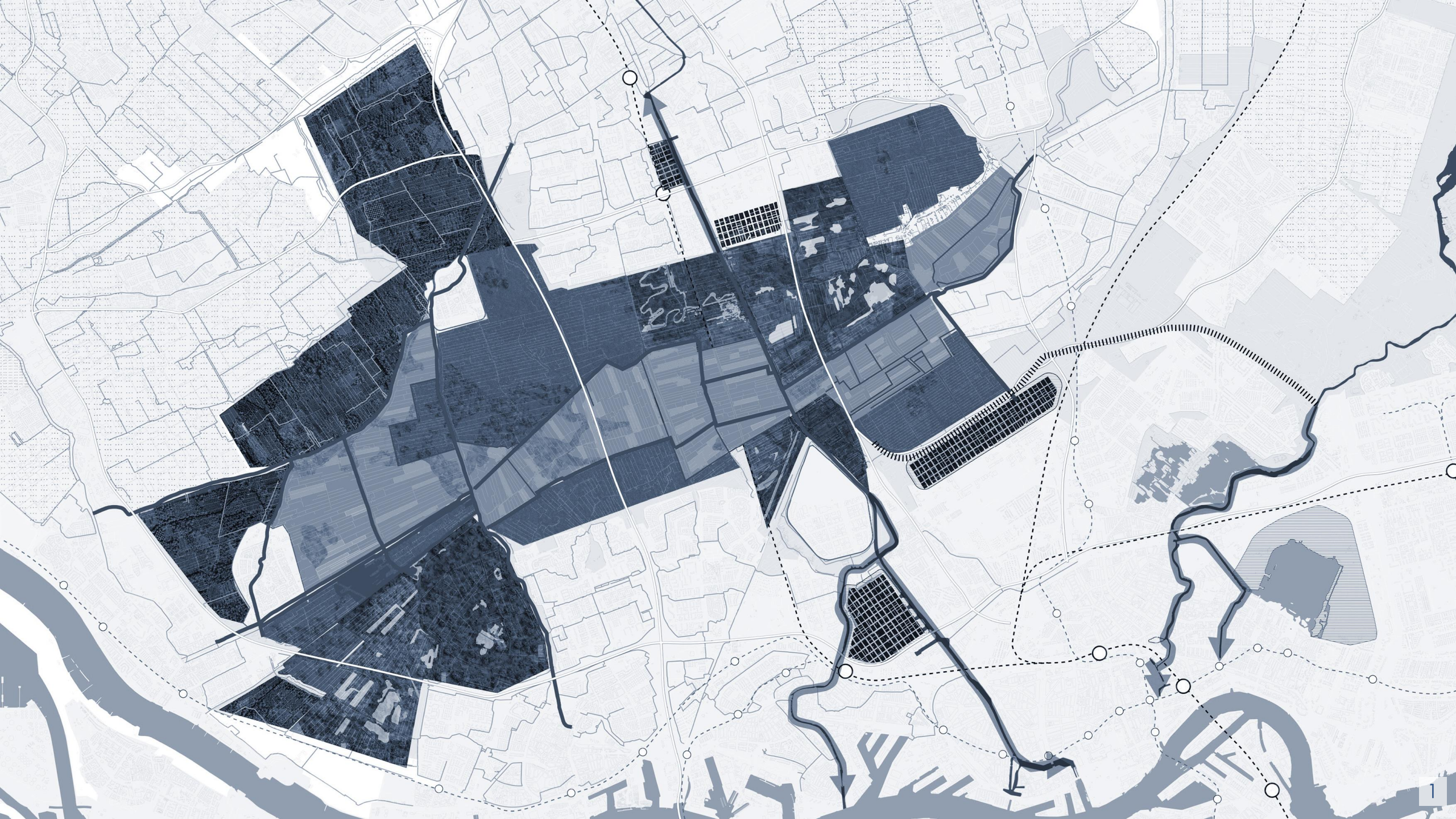
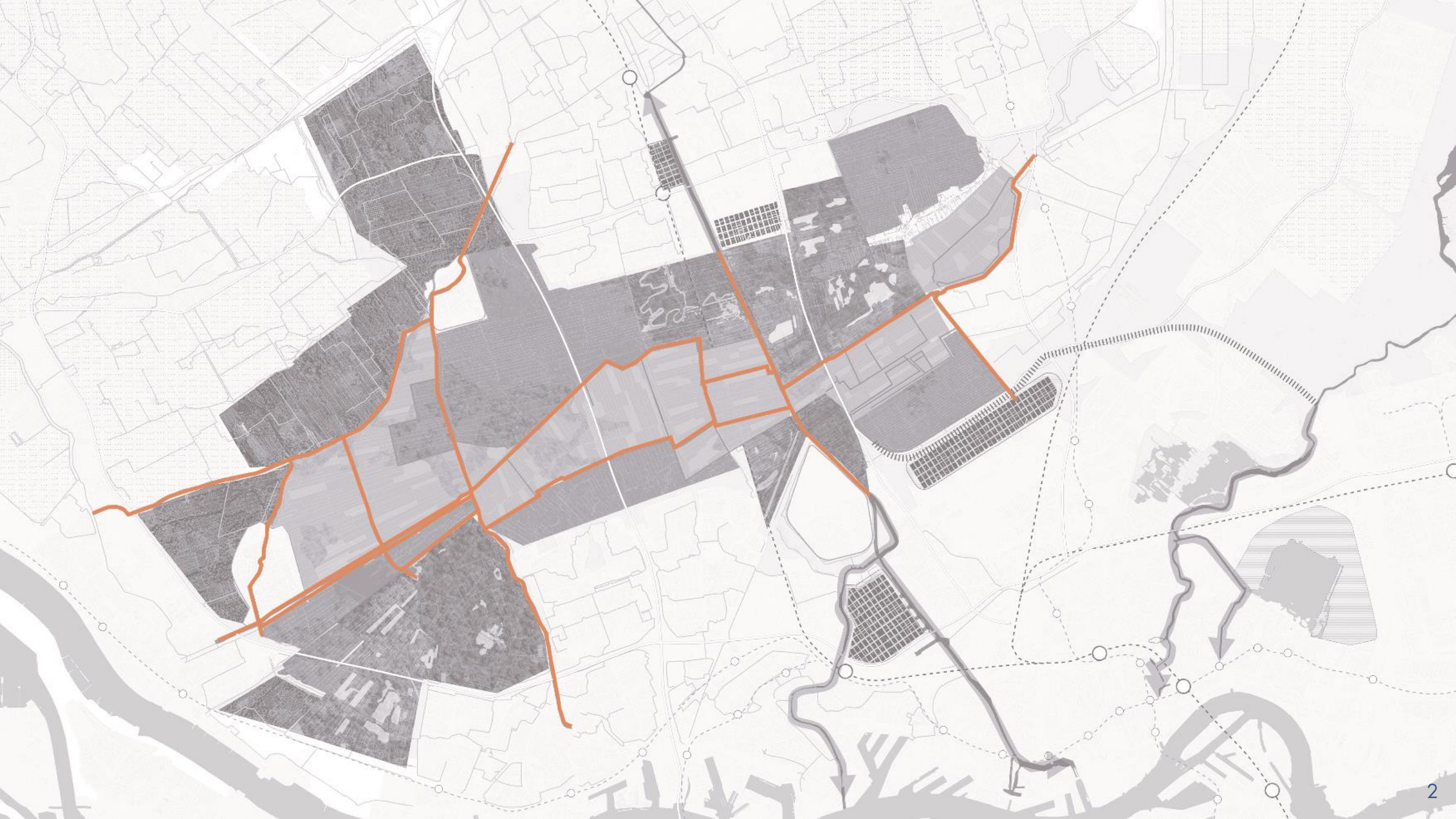
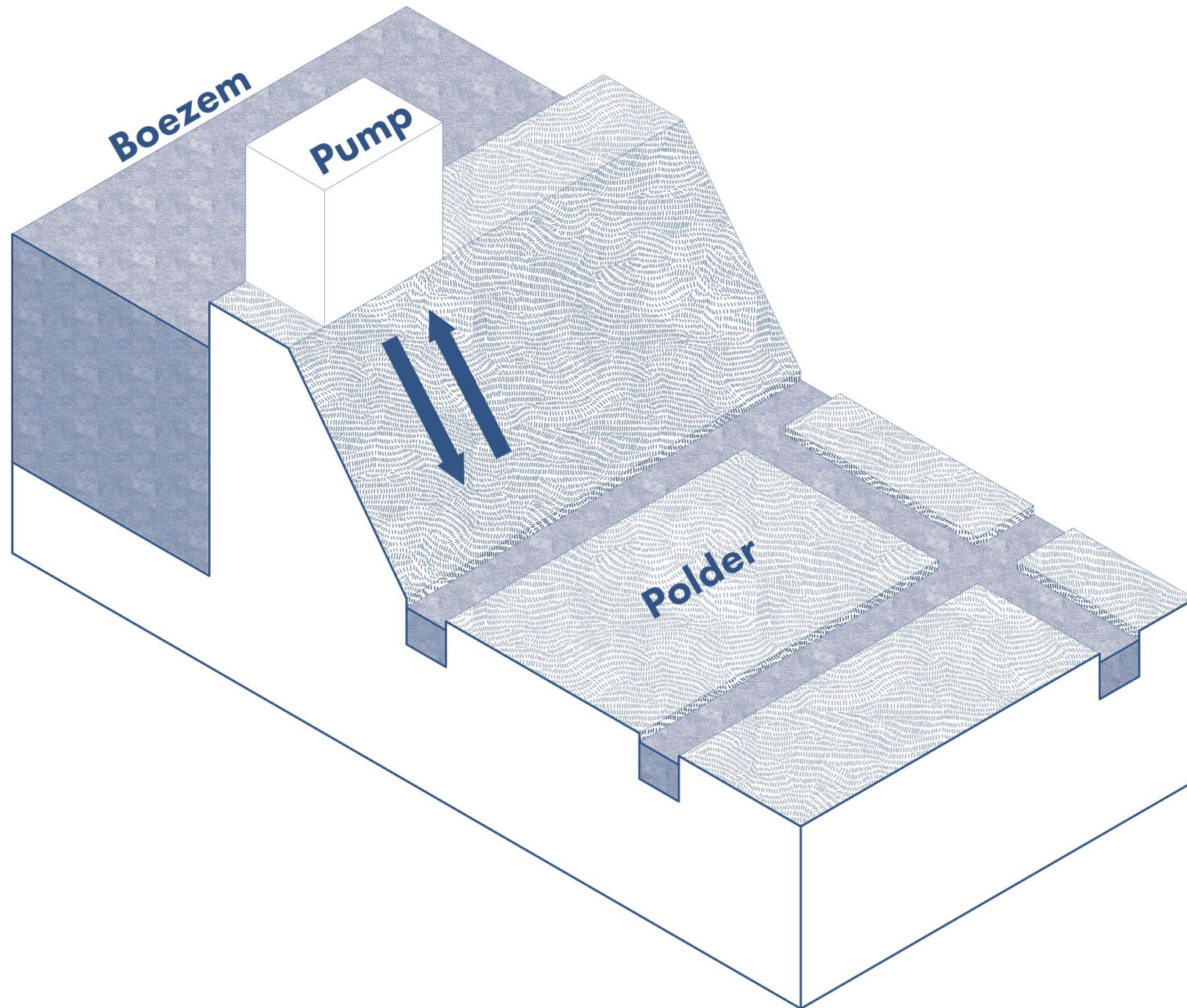


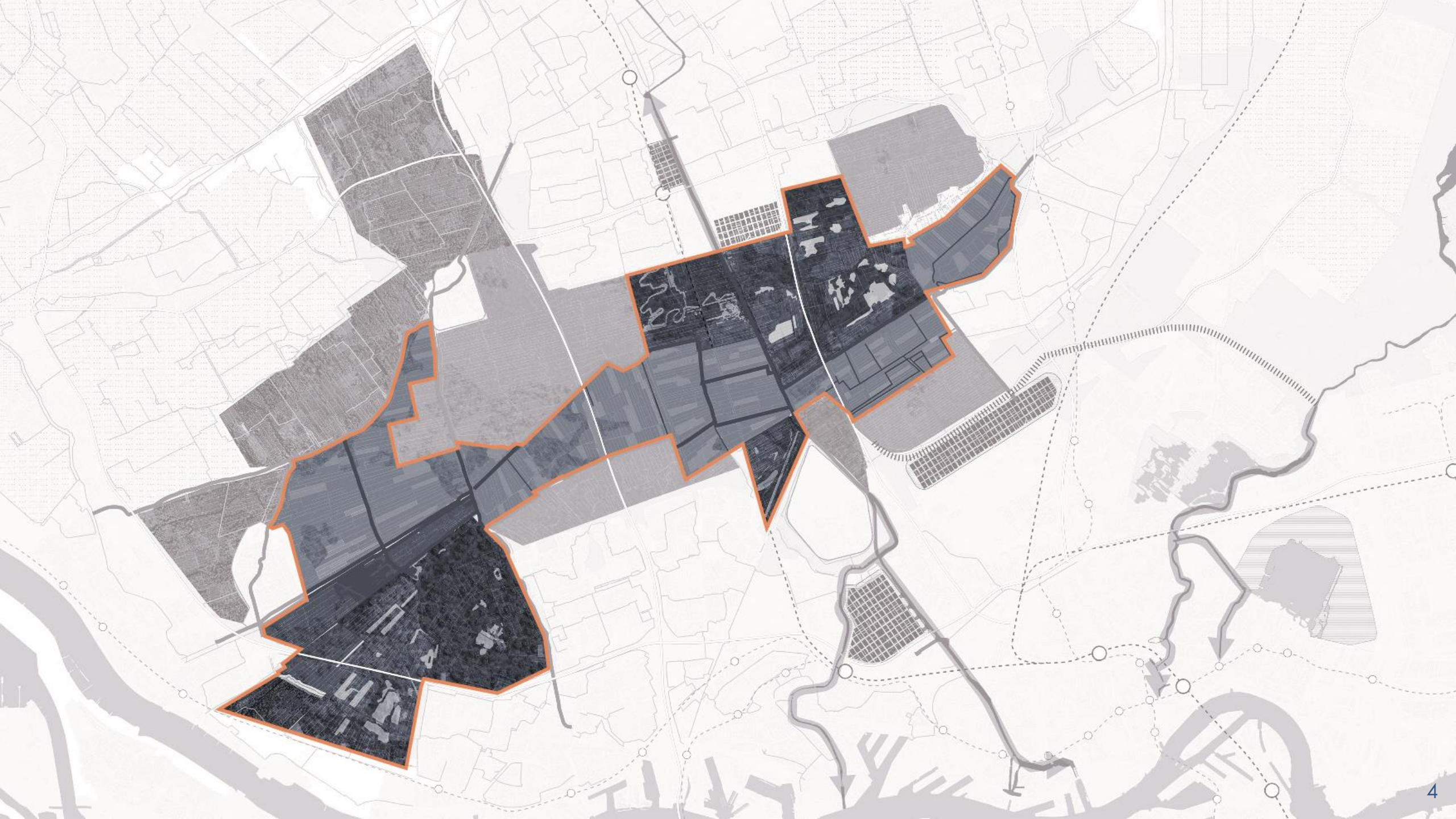
P5 Presentation

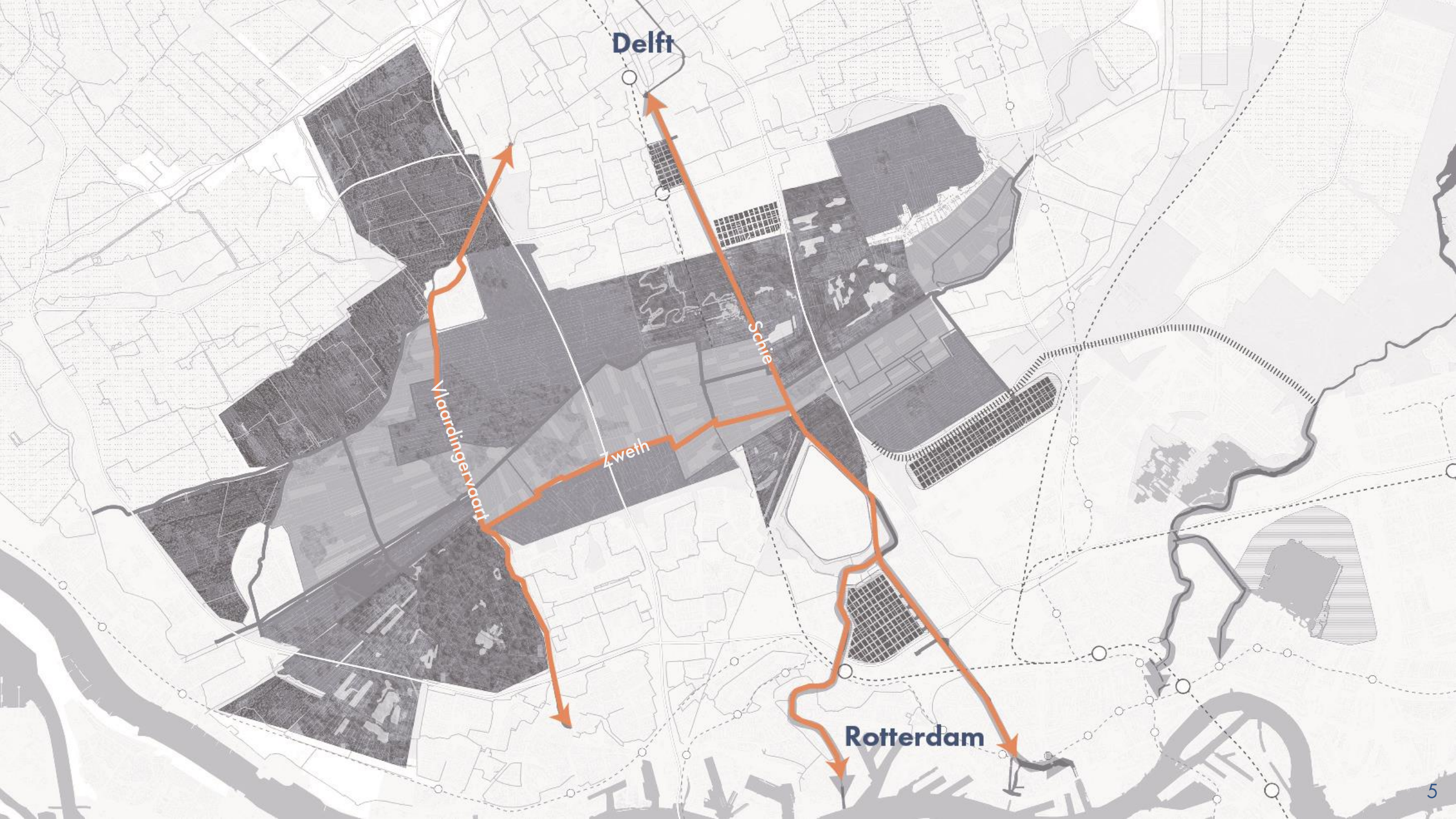
Jemma Scheijde | 5690242











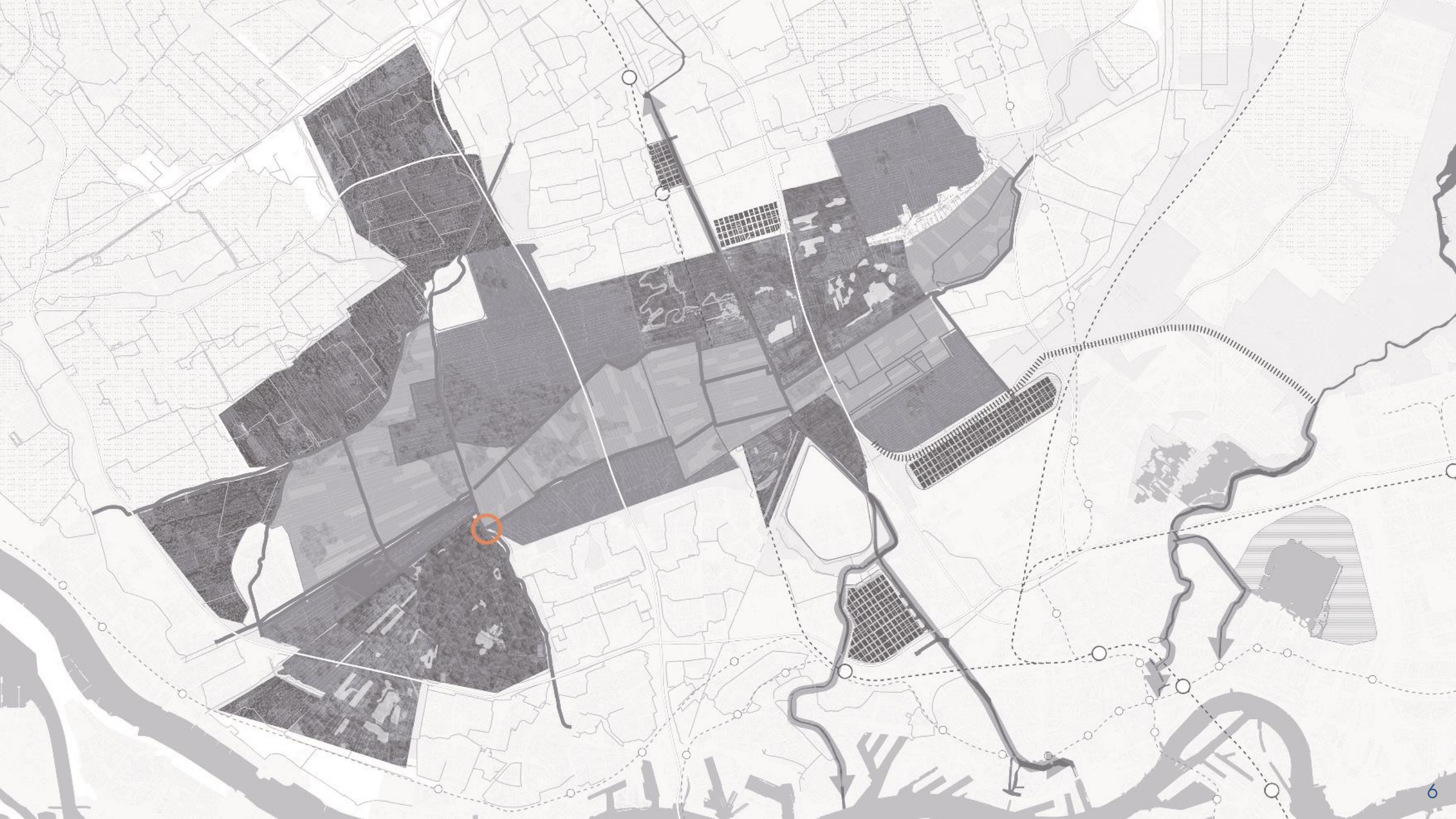
Delft

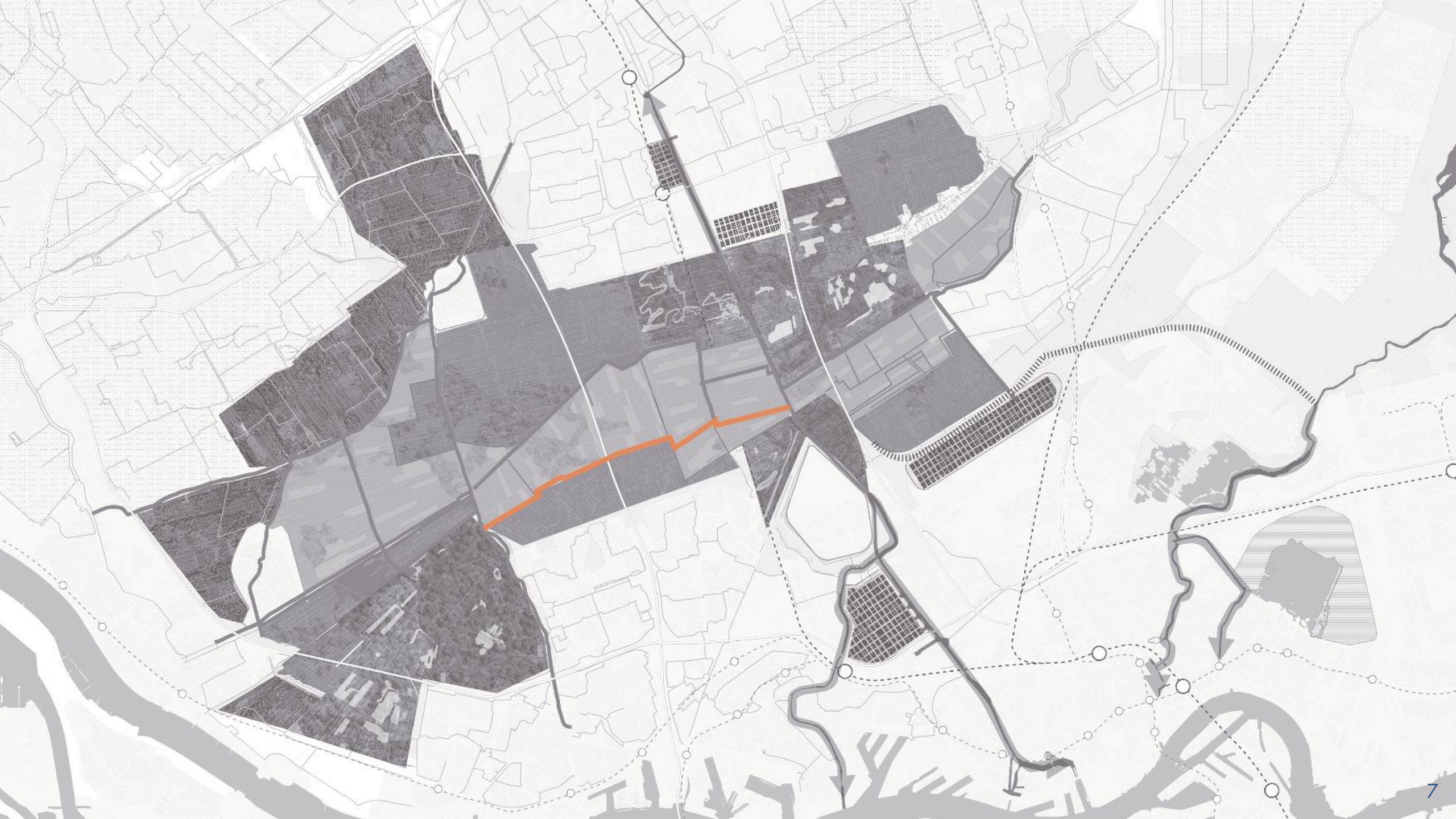
Vlaardingenvoort

Zweth

Schie

Rotterdam







A large grid of small blue trucks, arranged in a regular pattern, filling the background of the page. The trucks are oriented diagonally, pointing towards the bottom right.

x10

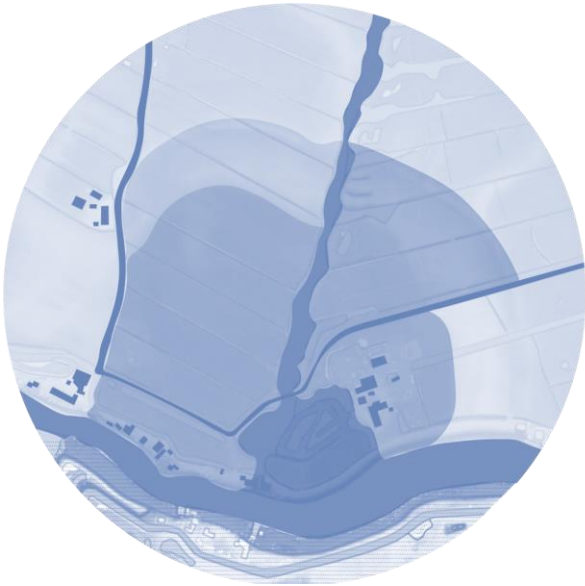




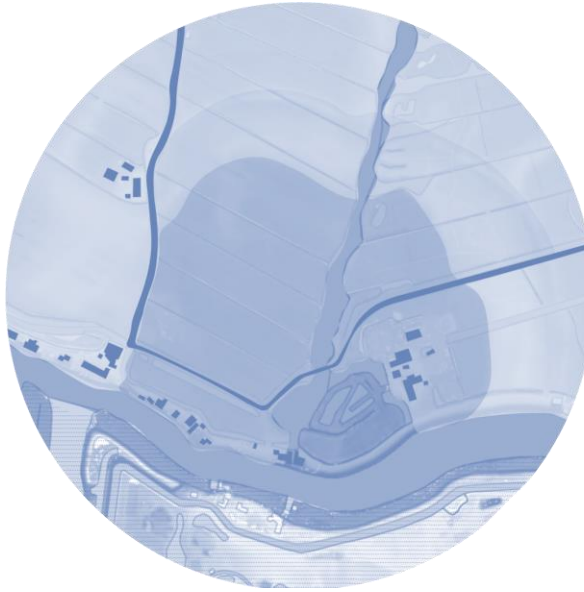




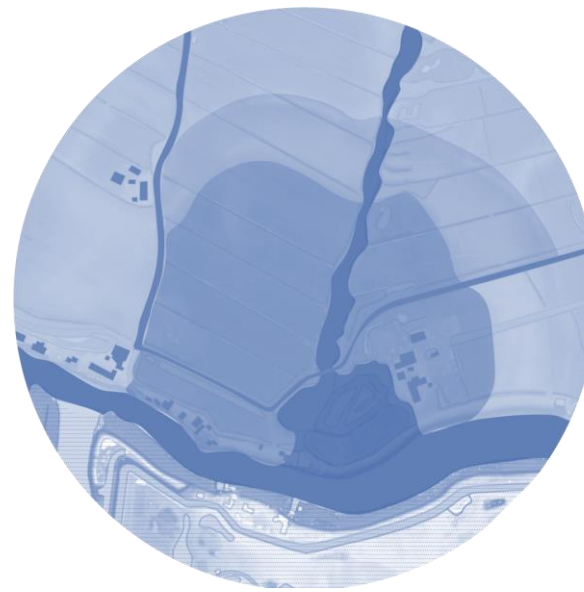
Publicness



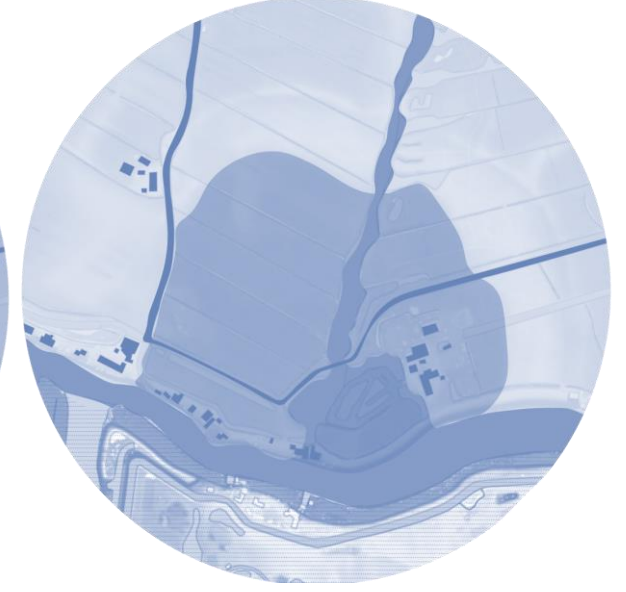
Activity



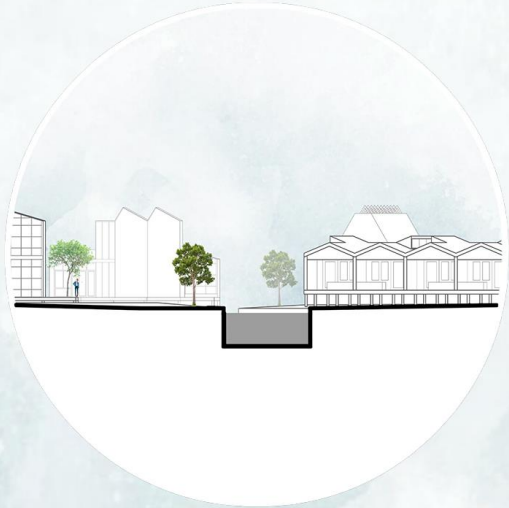
Density



Heaviness



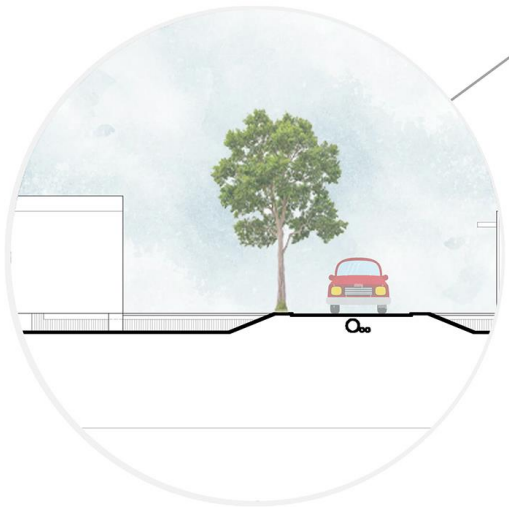
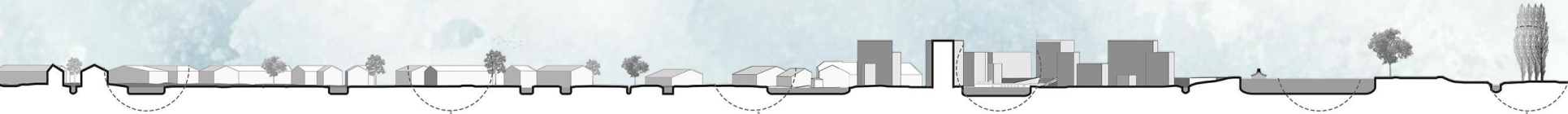
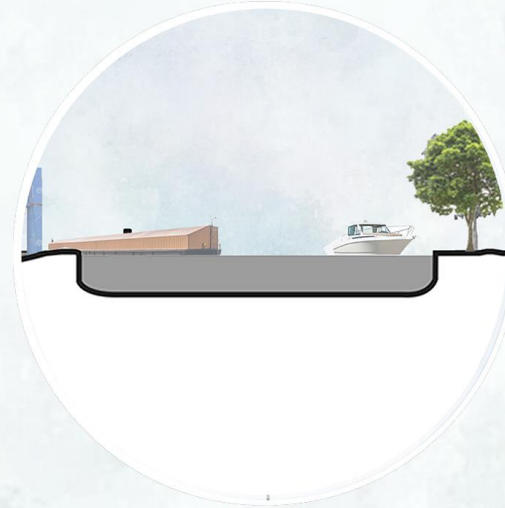
Dwellings



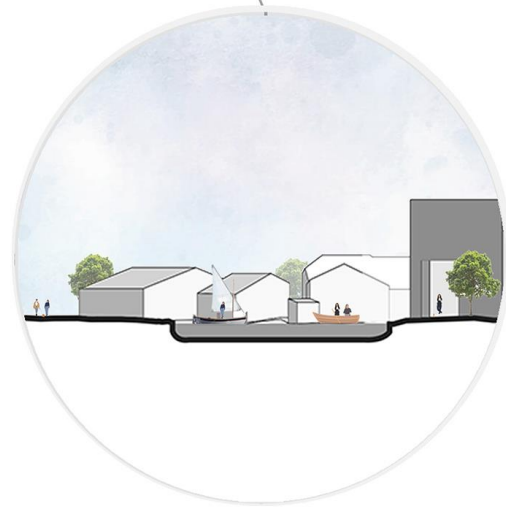
Iconic Crosspoint



Transportation



Raised Road



Recreation



Biodiversity

Research Types

Report



Affordability

- Resource-based affordability

Design



Adaptability

- Modular design promoting flexibility
- Non-traditional family configurations

Research:
Affordability



Resourceful Affordability



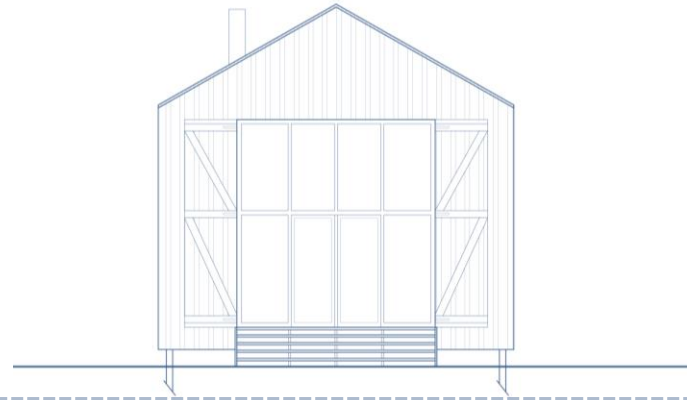
Research Report

Jemma Scheijde

Bio-Based Artist Residency



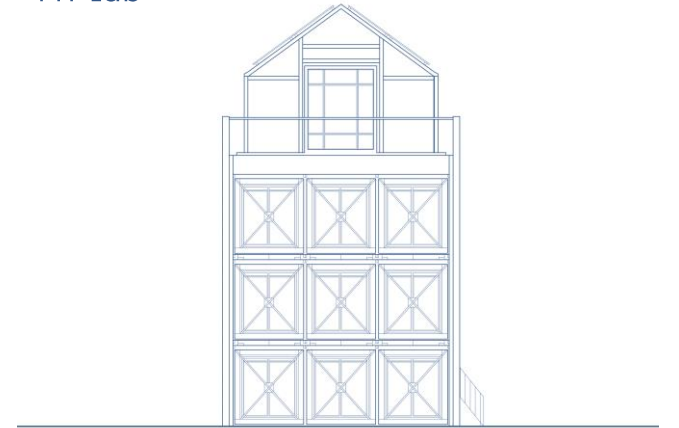
Ban-sur-Meurthe House



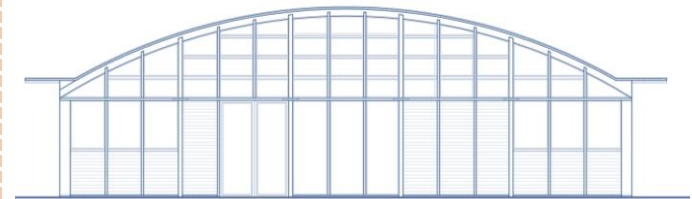
R50 Cohousing



PIT Lab



Kwikset House





Construction Costs



Durability



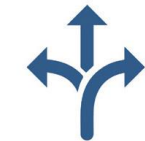
Skill of Labour



Maintenance



Construction Time



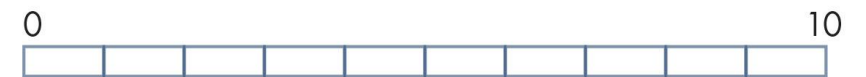
Flexibility



Economy of Scale



Demountability





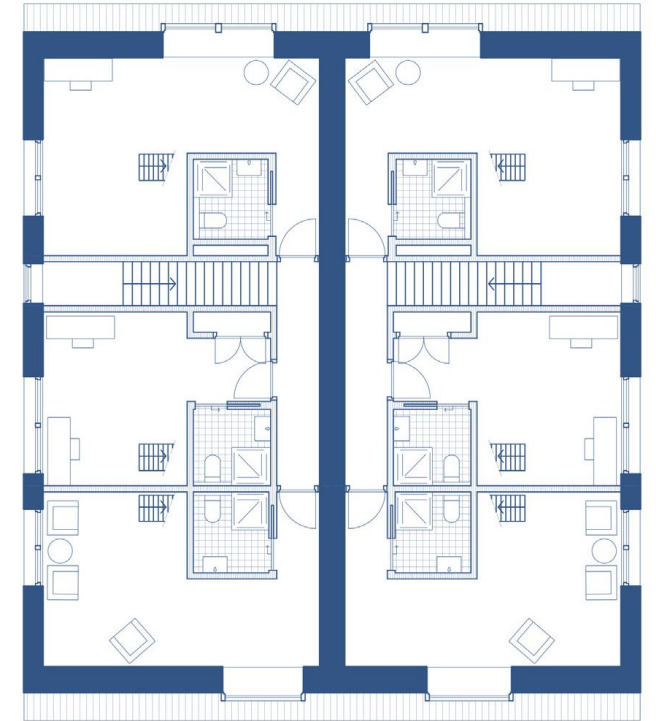
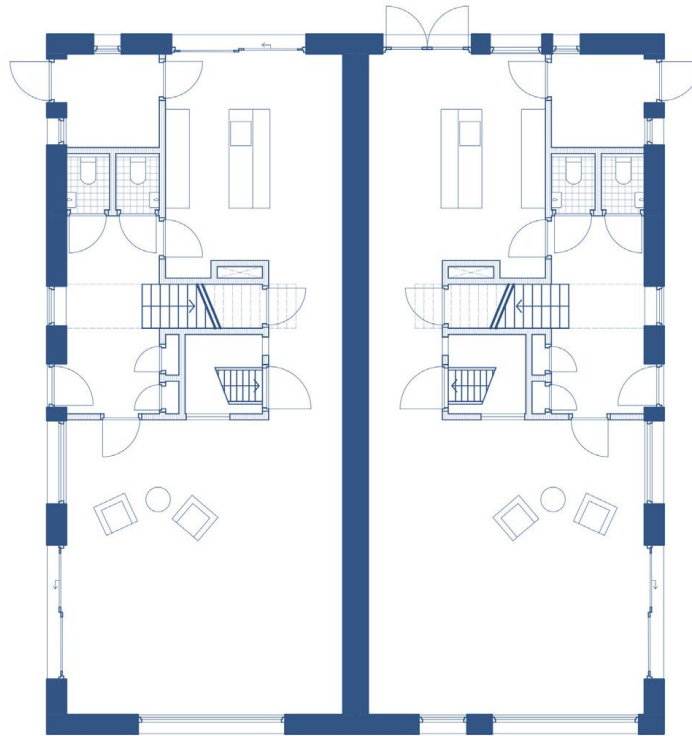
Verrecht, J. (2023). Photograph of biobased artist residency

Bio-Based Artist Residence

bureau SLA

Rotterdam

2022





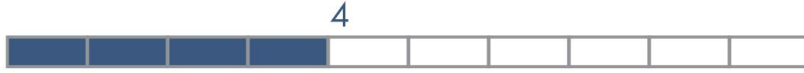
Construction Costs



Durability



Skill of Labour



Maintenance



Construction Time



Flexibility



Economy of Scale



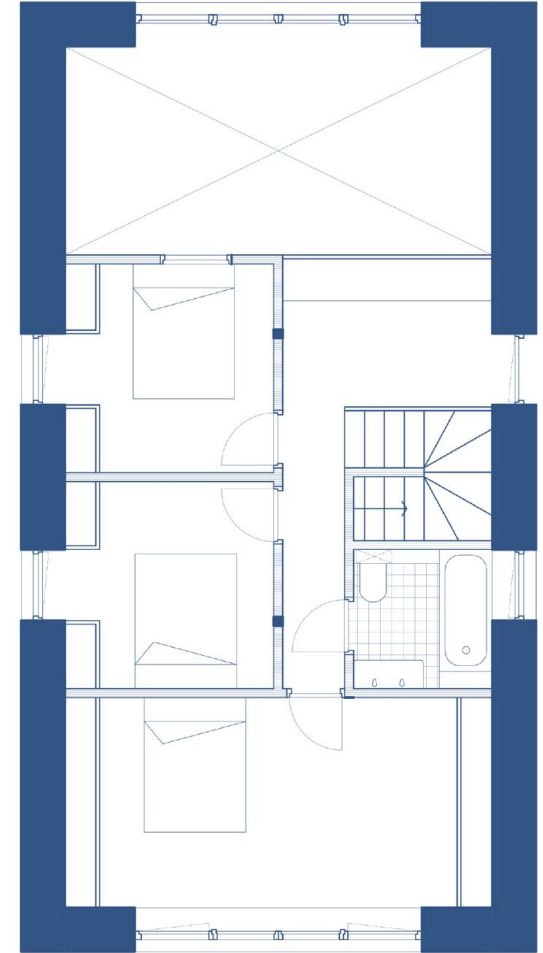
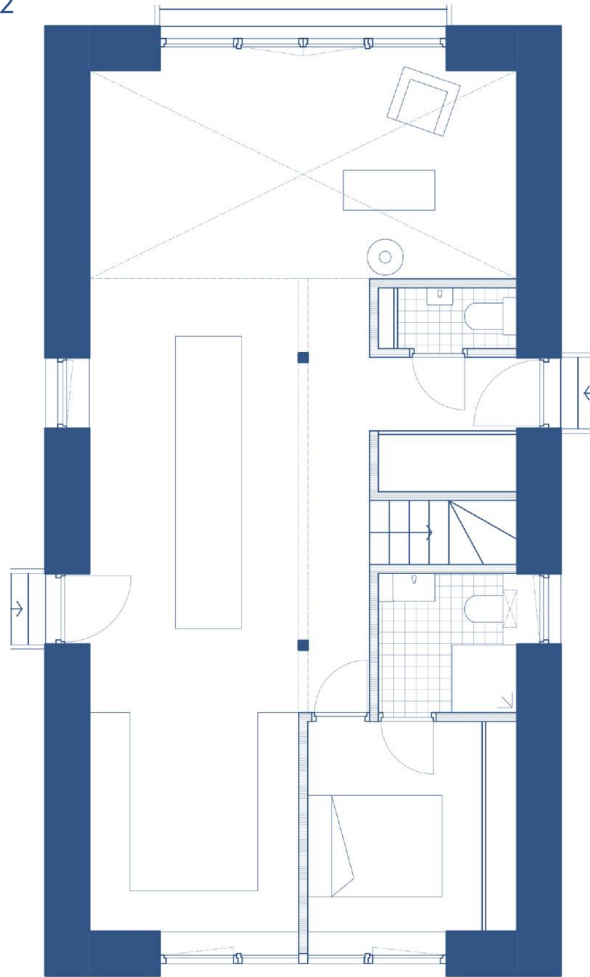
Demountability





Mathiotte, O (2022). Interior Photograph of Ban-sur-Meurthe House.

Ban-sur-Meurthe House
Studiolada
Ban-sur-Meurthe-Clefcy
2022





Construction Costs



Durability



Skill of Labour



Maintenance



Construction Time



Flexibility



Economy of Scale



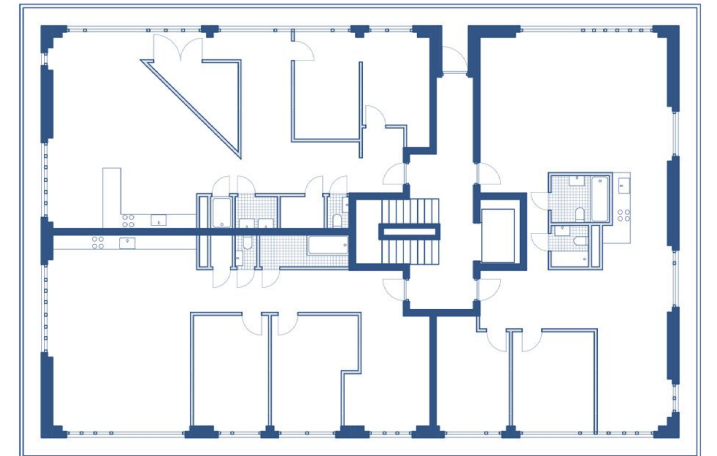
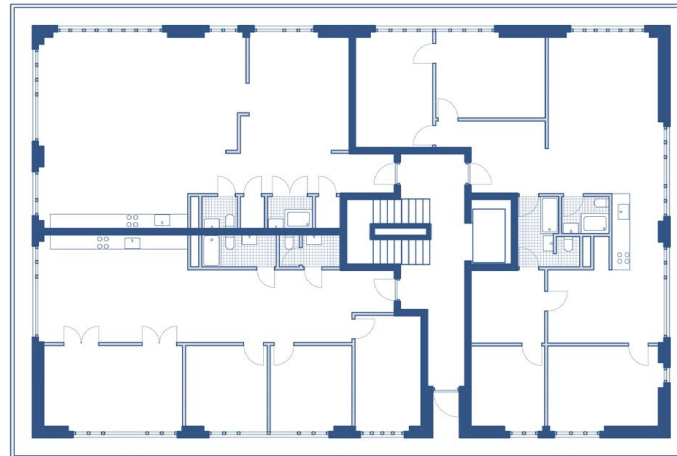
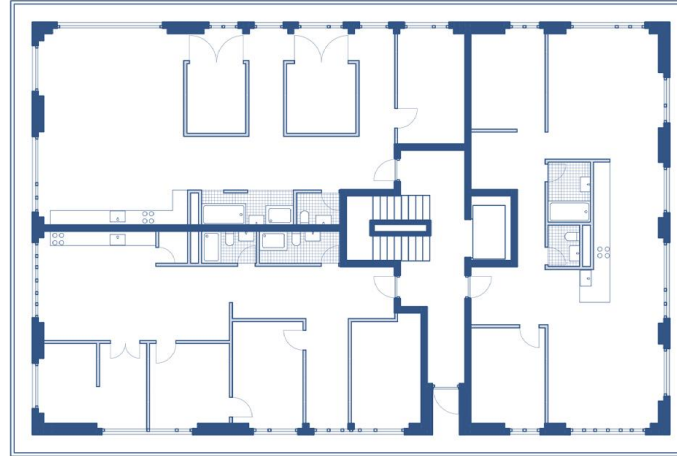
Demountability





Alberts, A (2013), Photograph of R50-Cohousing Balconies

R50-Cohousing
Heide & von Beckerath
Berlin
2013





Construction Costs



Durability



Skill of Labour



Maintenance



Construction Time



Flexibility



Economy of Scale



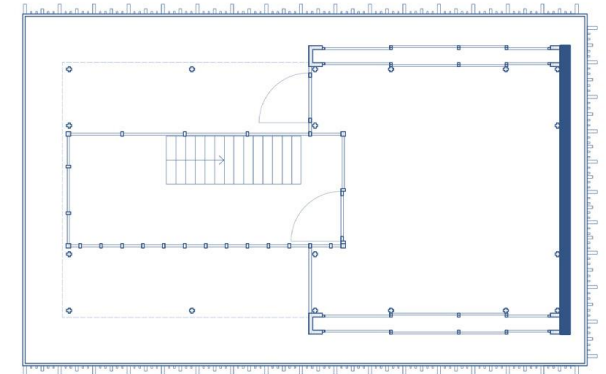
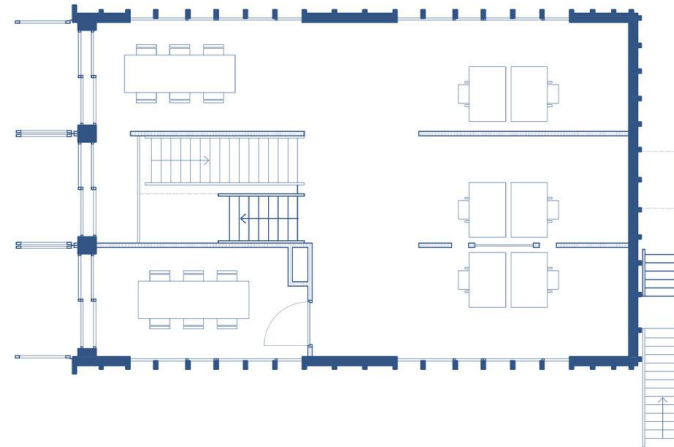
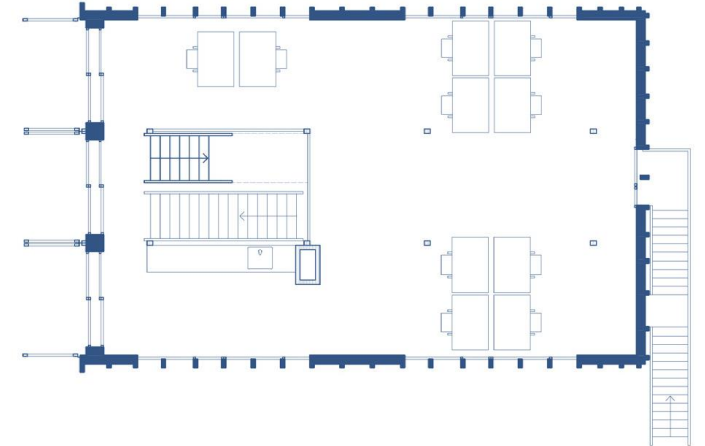
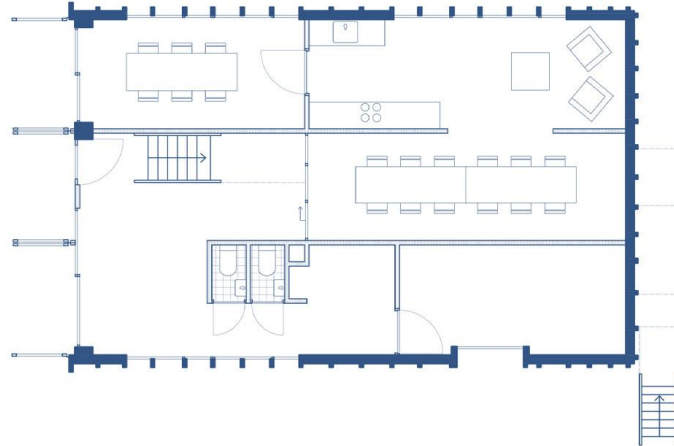
Demountability





Door Architecten (2021). Photograph of PIT Lab

PIT Lab
DOOR architecten
Amsterdam
2017





Construction Costs



Durability



Skill of Labour



Maintenance



Construction Time



Flexibility



Economy of Scale



Demountability

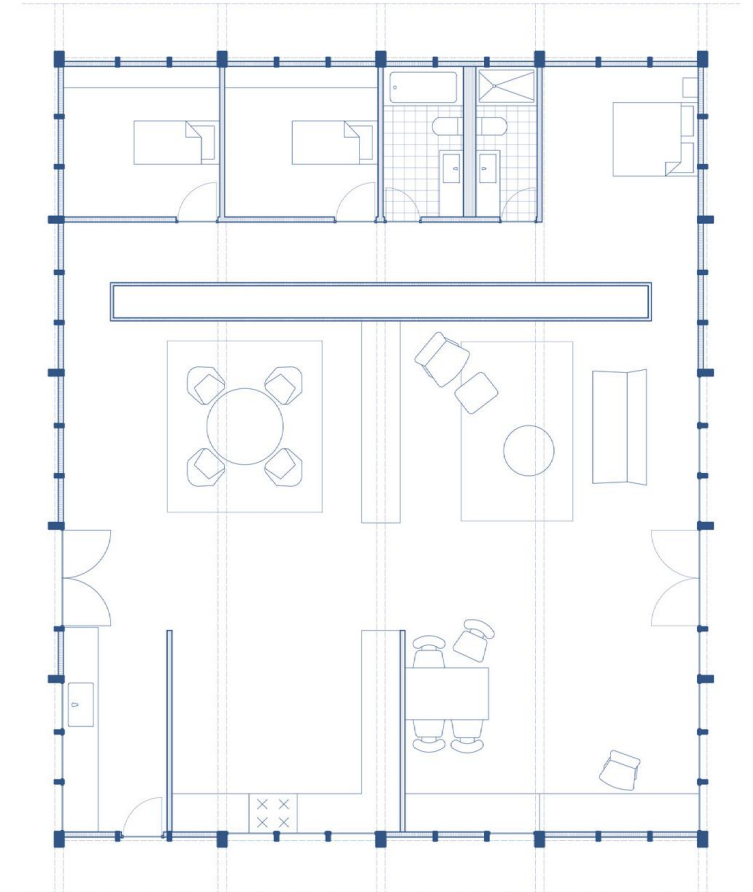
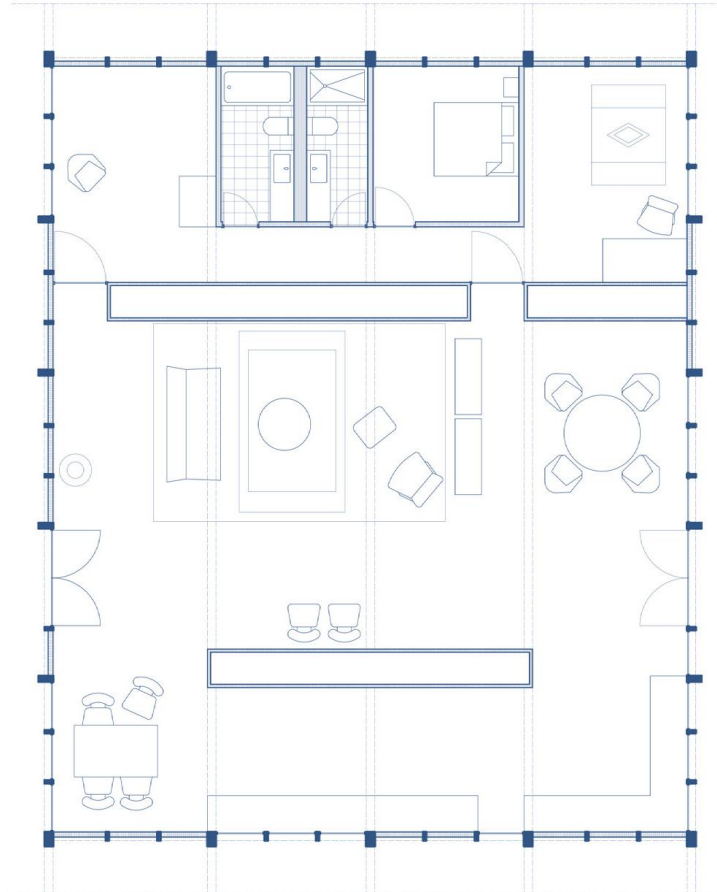


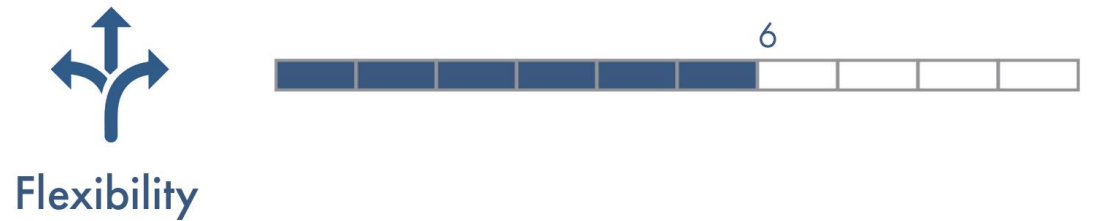
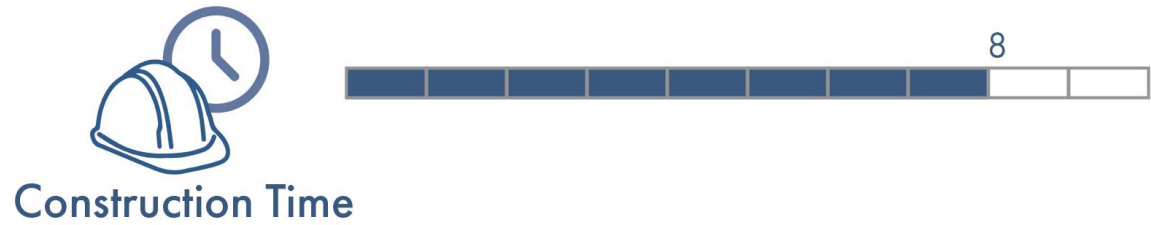
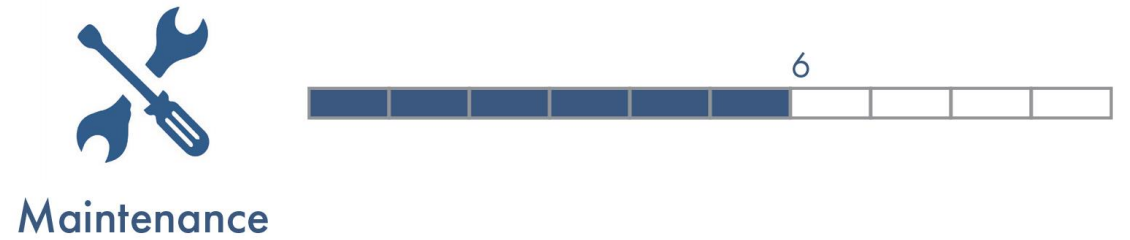
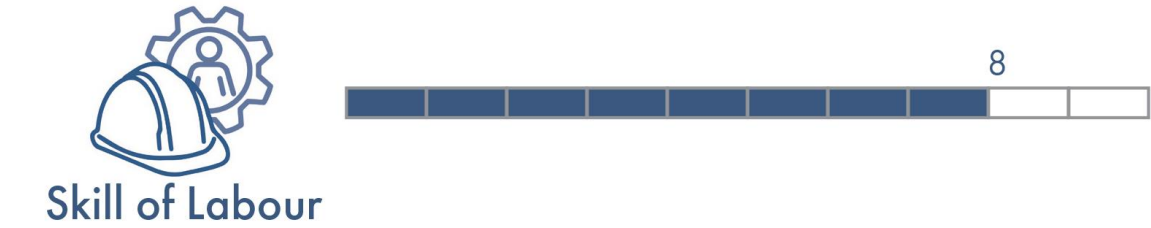
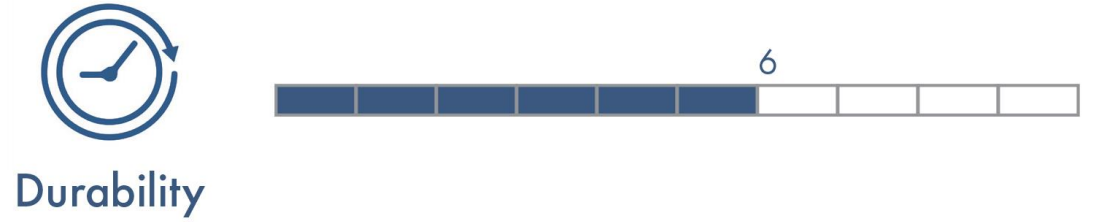


Eames, C; Eames, R (1951). Photograph of Kwikset House

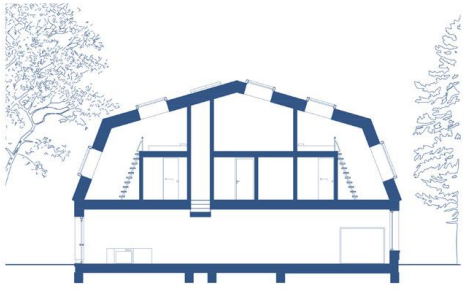
The Kwikset House

Ray and Charles Eames
USA
1951



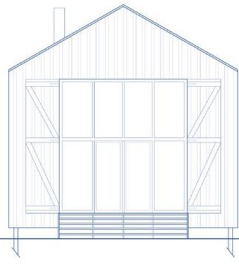


Bio-Based Artist Residence



6,25

Ban-sur-Meurthe House



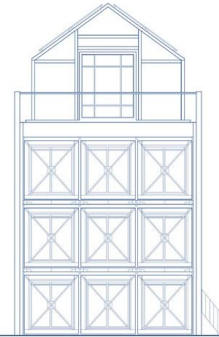
4,75

R50-Cohousing



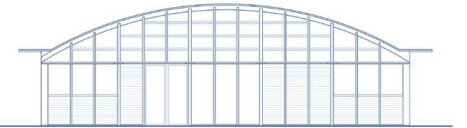
5,75

PIT Lab



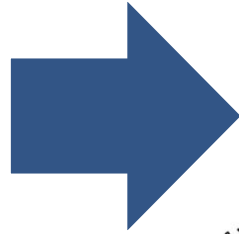
7

Kwikset House



7,25

Research:
Adaptability



U-Build

Urban Village Project

Kwikset House

Revell Toy House

Loblolly House

Small Homes Service



S

M

L

XL

U-Build
Studio Bark
Global
2017



S



M



L



XL

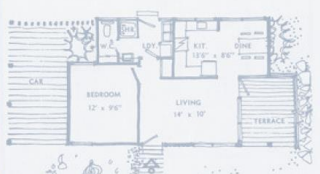
Urban Village Project
 EFFEKT
 Global
 2018



S/T 773 T-shape, with one bedroom, in 590 sq. ft., excluding outdoor terrace. Can expand. Fits 40 ft. block.



S/T 804 One bedroom in 490 sq. ft., plus carport and patio. Fits 40ft. lot.



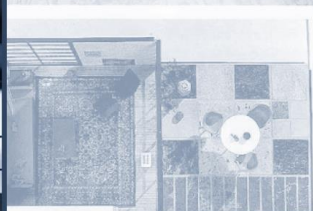
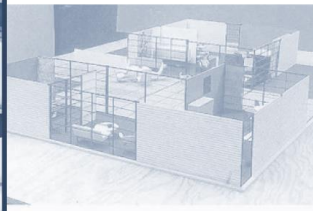
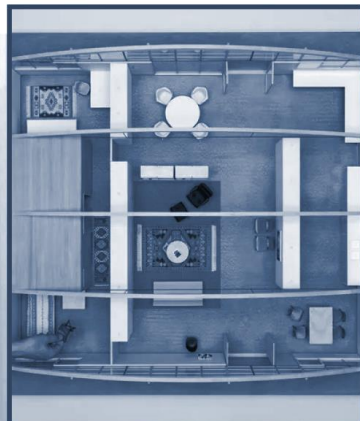
S

M

L

XL

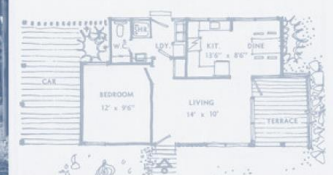
The Kwikset House
 Charles and Ray Eames
 USA
 1951



S/T 773 T-shape, with one bedroom, in 590 sq. ft., excluding outdoor terrace. Can expand. Fits 40 ft. block.



S/T 804 One bedroom in 490 sq. ft., plus carport and patio. Fits 40ft. lot.



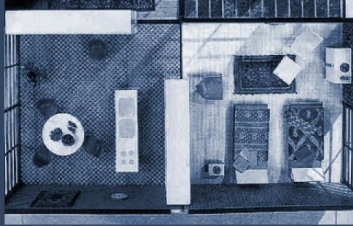
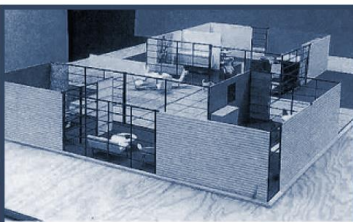
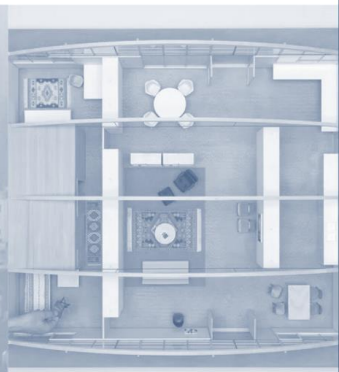
S

M

L

XL

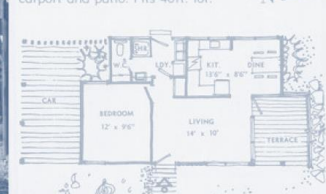
Revell Toy House
Charles and Ray Eames
USA
1959



S/T 773 T-shape, with one bedroom, in 590 sq. ft., excluding outdoor terrace. Can expand. Fits 40 ft. block.



S/T 804 One bedroom in 490 sq. ft., plus carport and patio. Fits 40ft. lot.



S

M

L

XL

Loblolly House
Kieran Timberlake
USA
2008



S

M

L

XL

Small Homes Service
 Robin Boyd
 Australia
 1947



S/T 773 T-shape, with one bedroom, in 590 sq. ft., excluding outdoor terrace. Can expand. Fits 40 ft. block.

S/T 804 One bedroom in 490 sq. ft., plus carport and patio. Fits 40ft. lot.

S

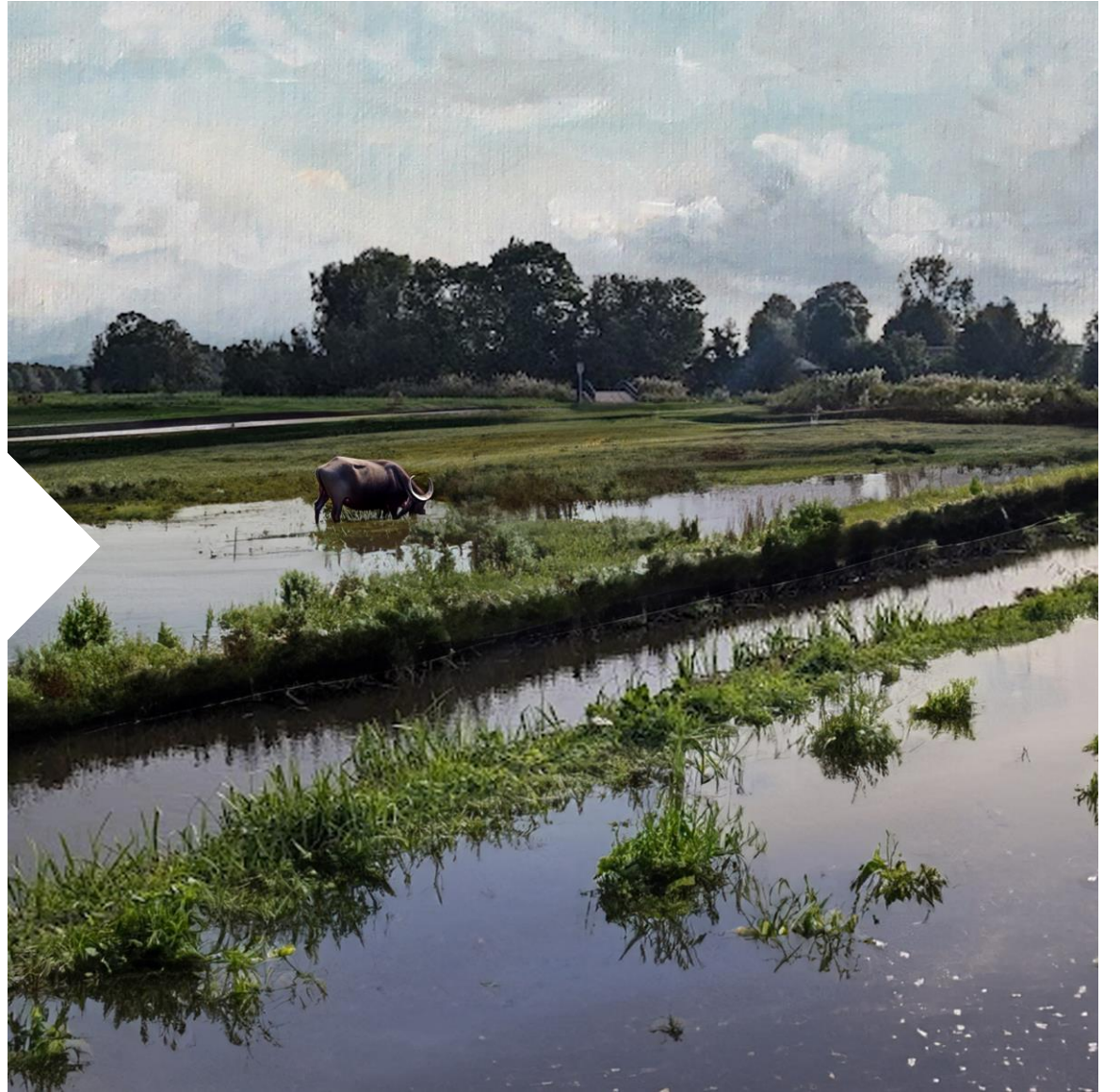
M

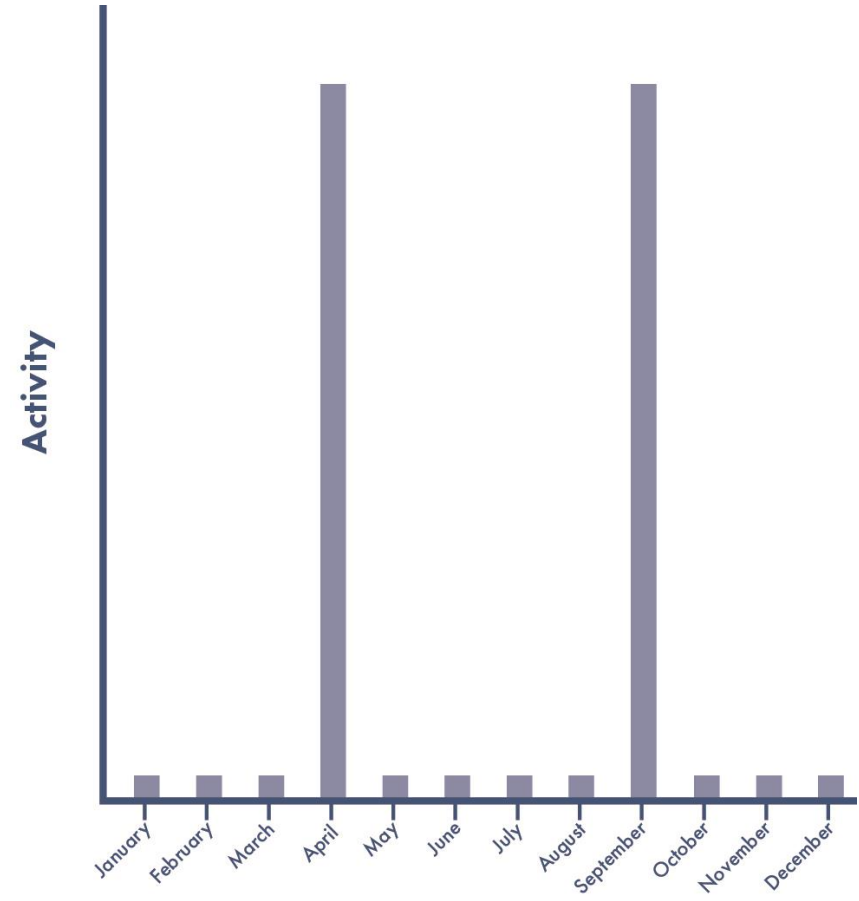
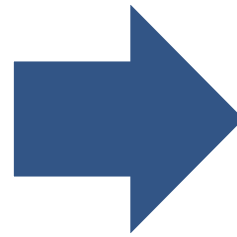
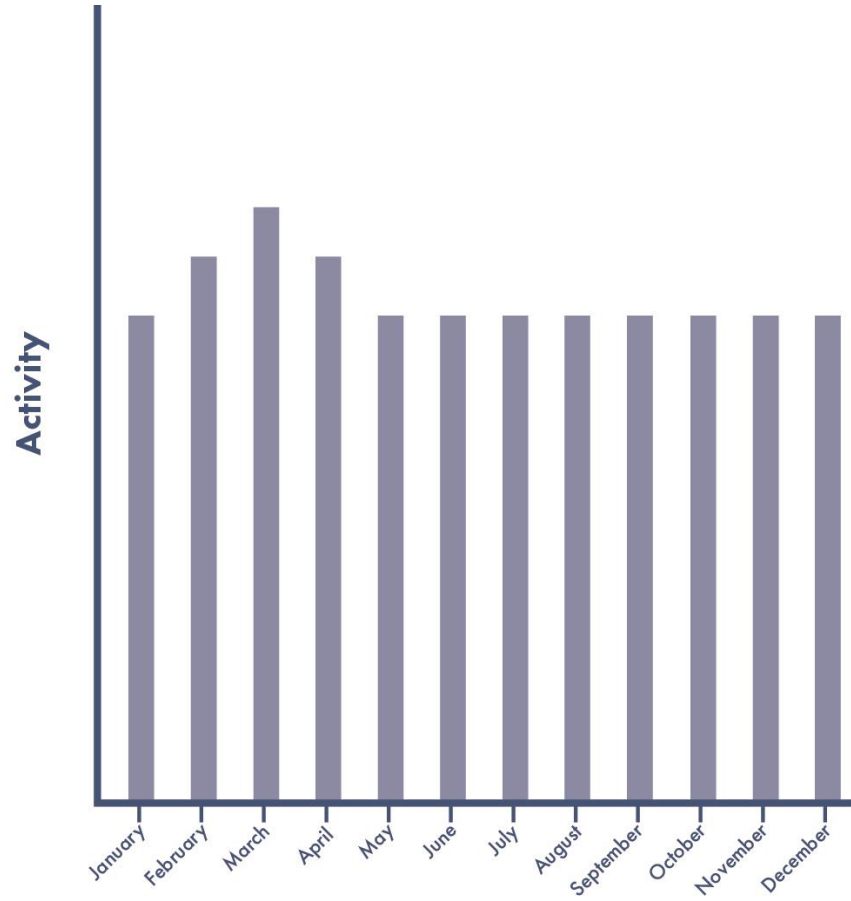
L

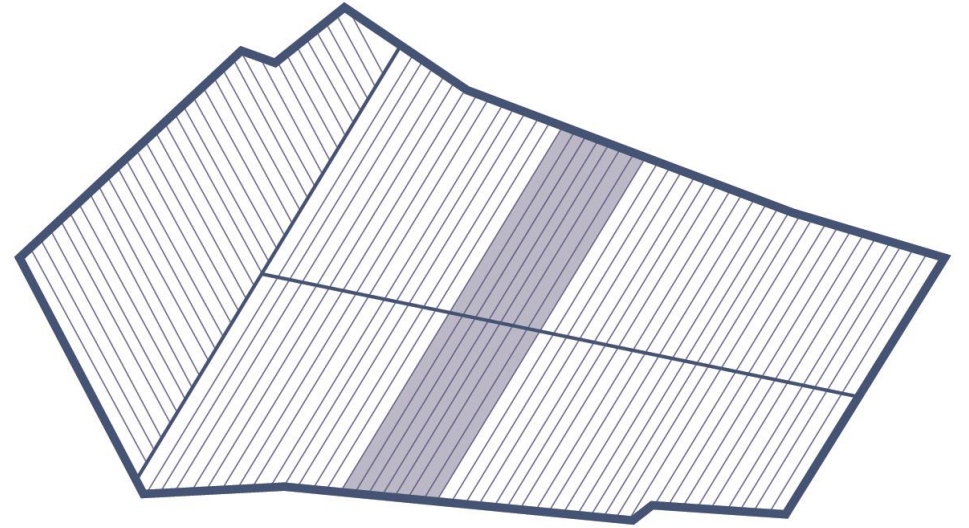
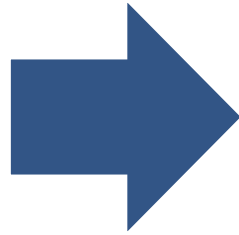
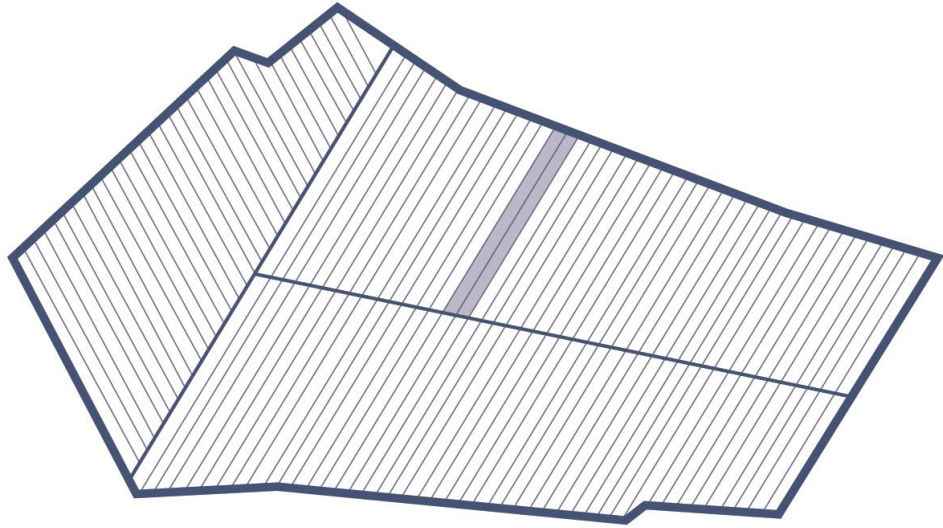
XL

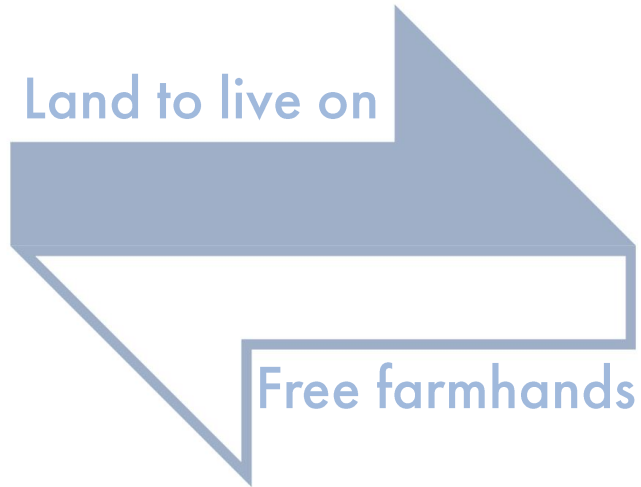
Research:
Solution











Restrictions

Temporality



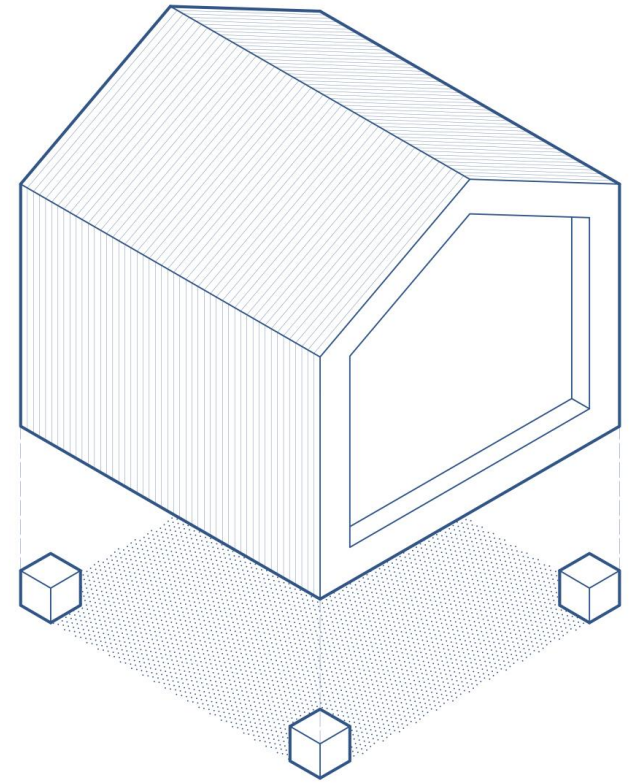
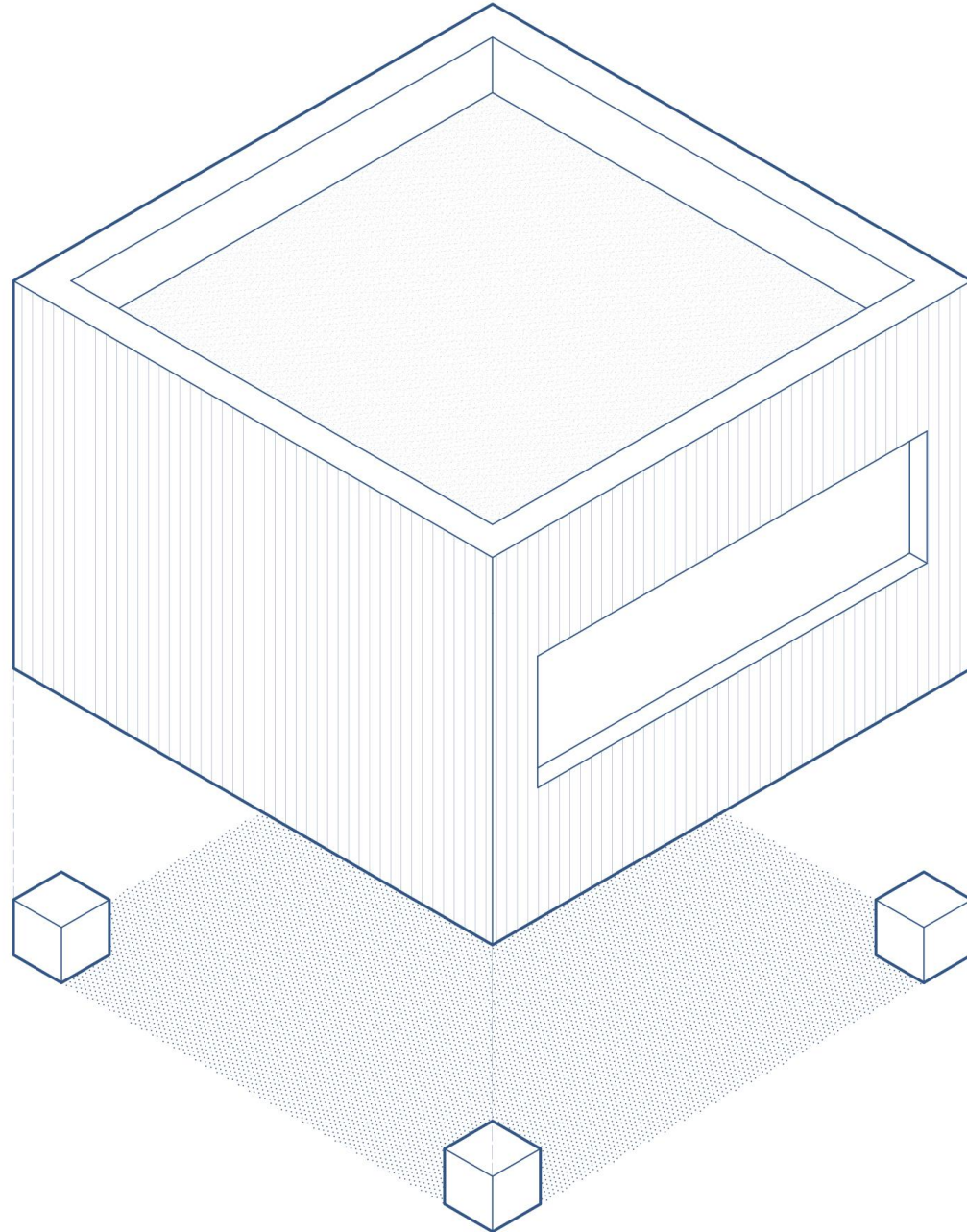
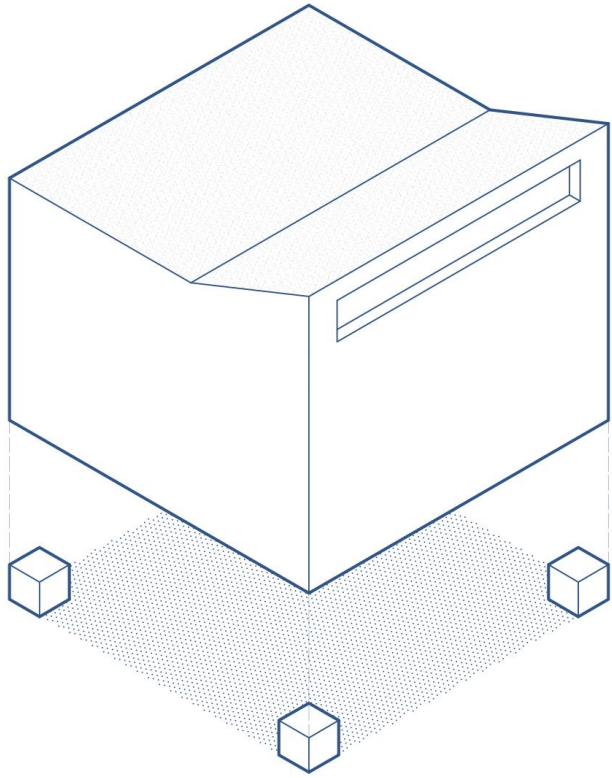
- Impermanent effect on farmer's land

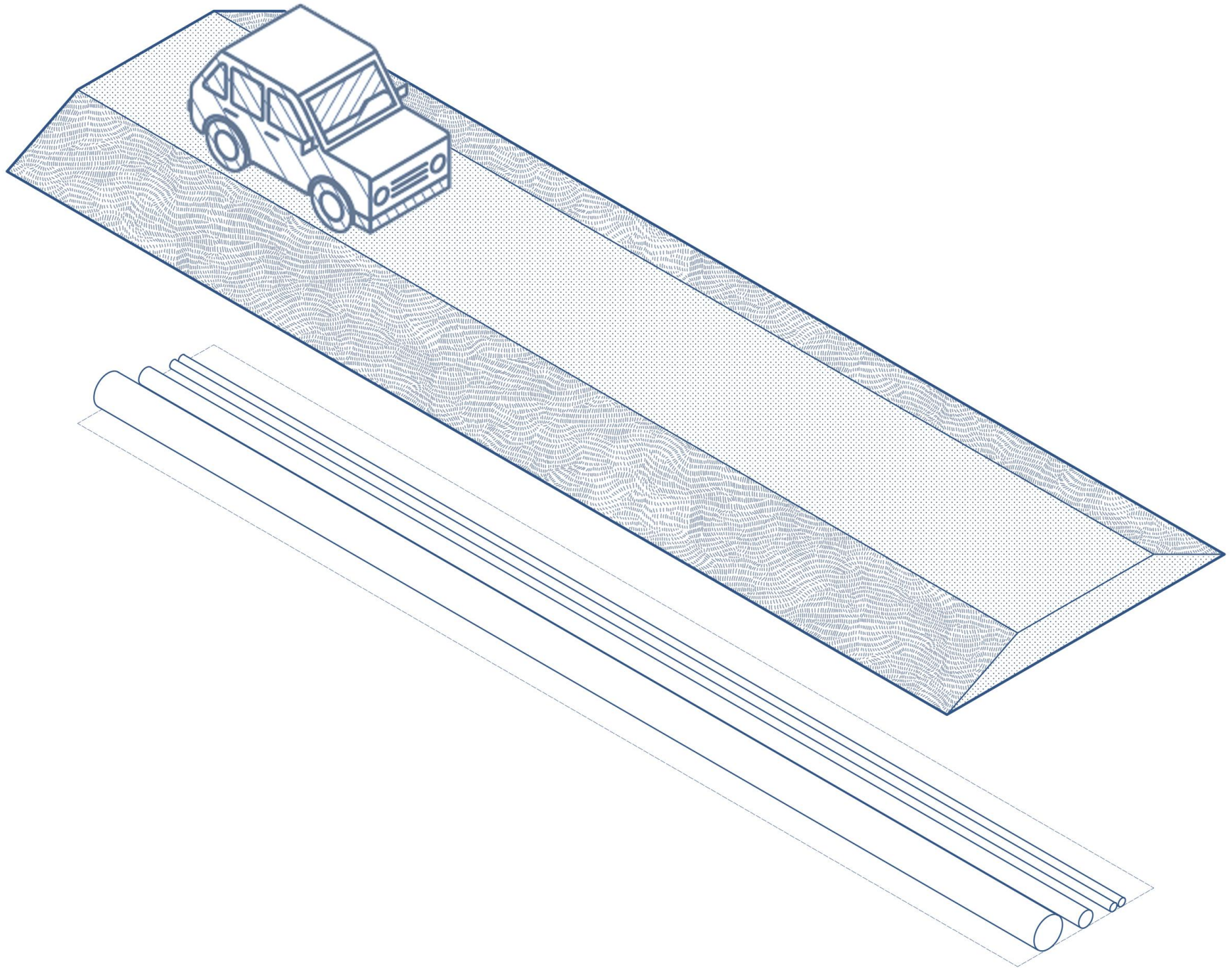
Financeability



- Little effect on farmer's profit

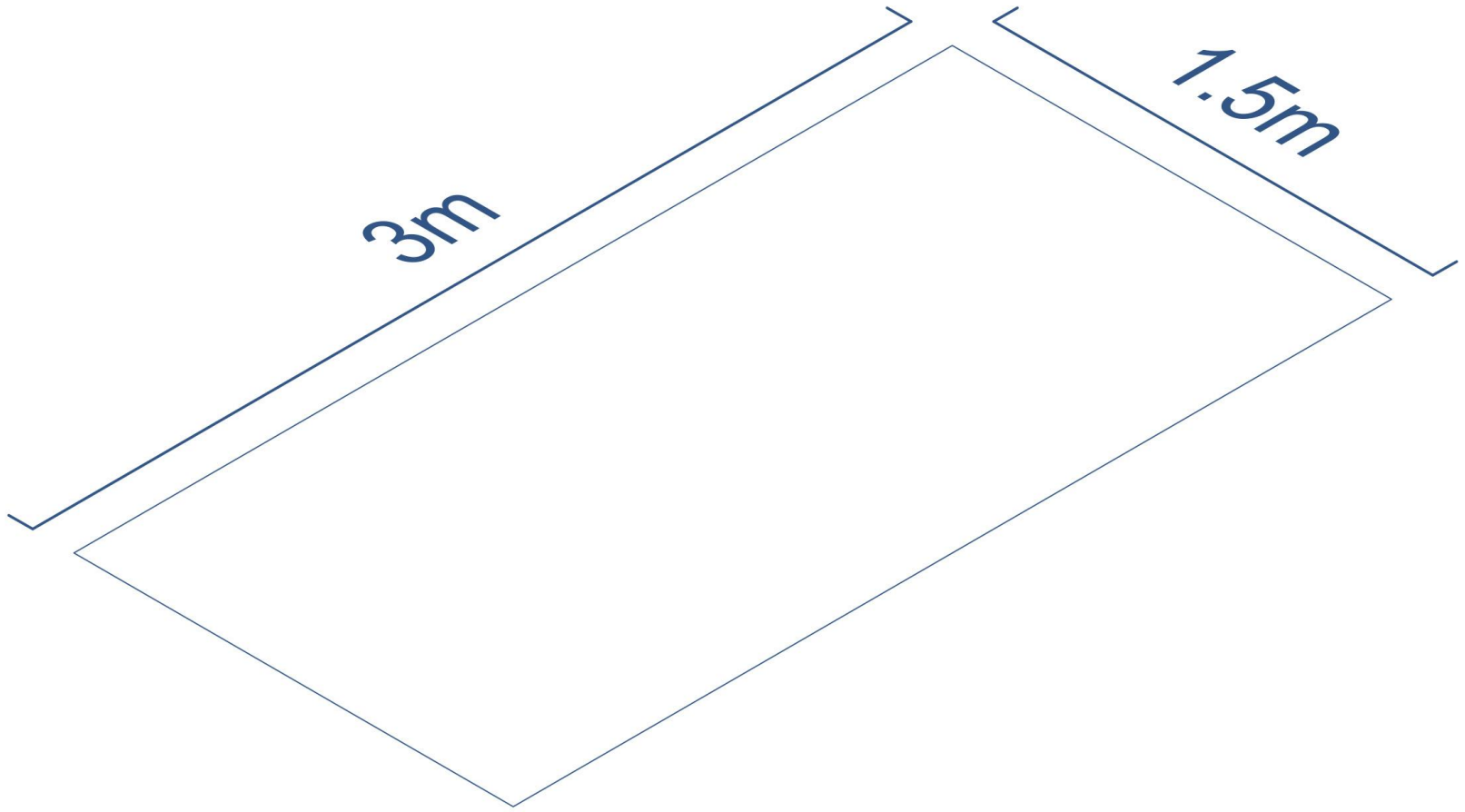
Restrictions:
Temporal

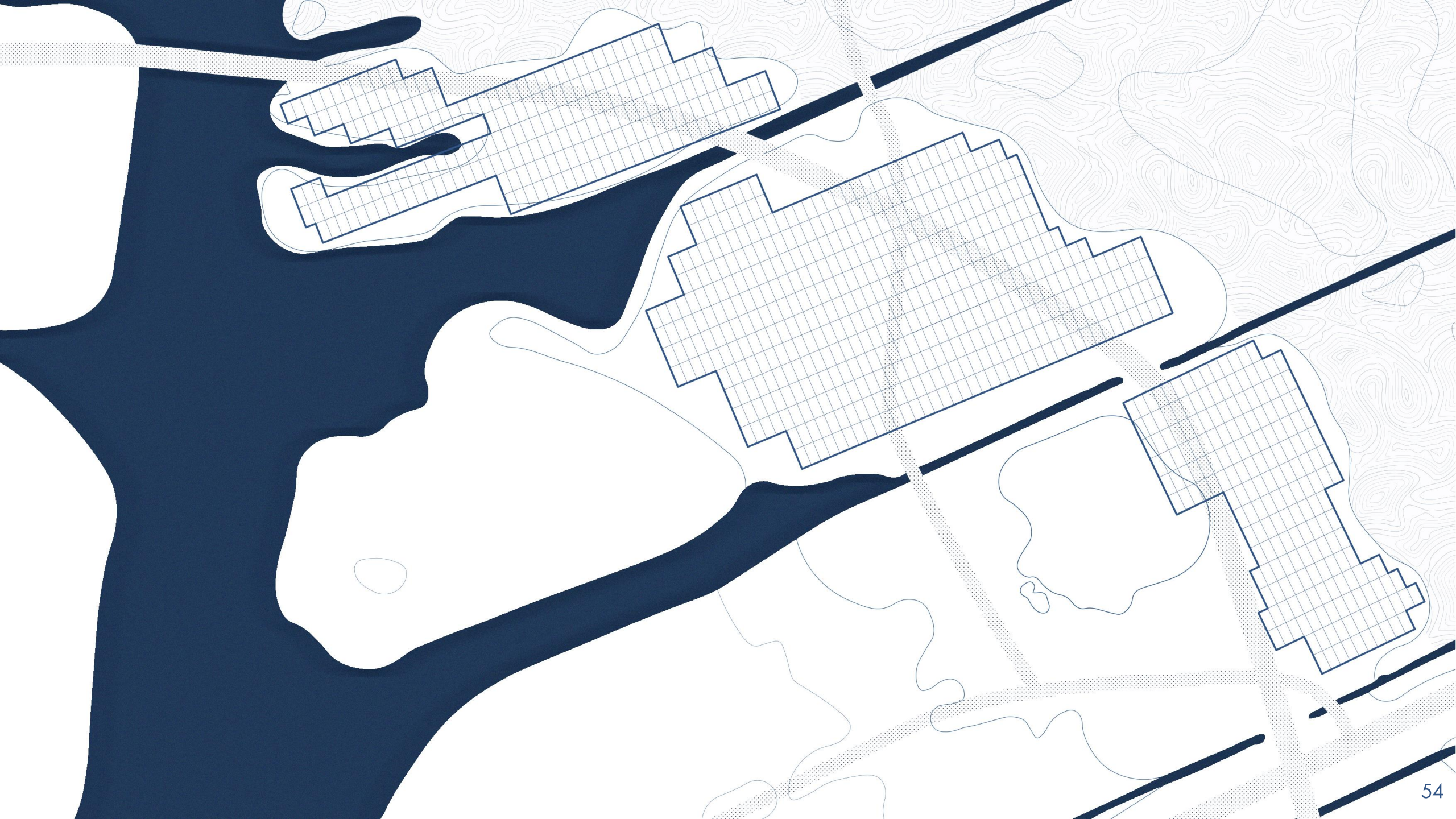


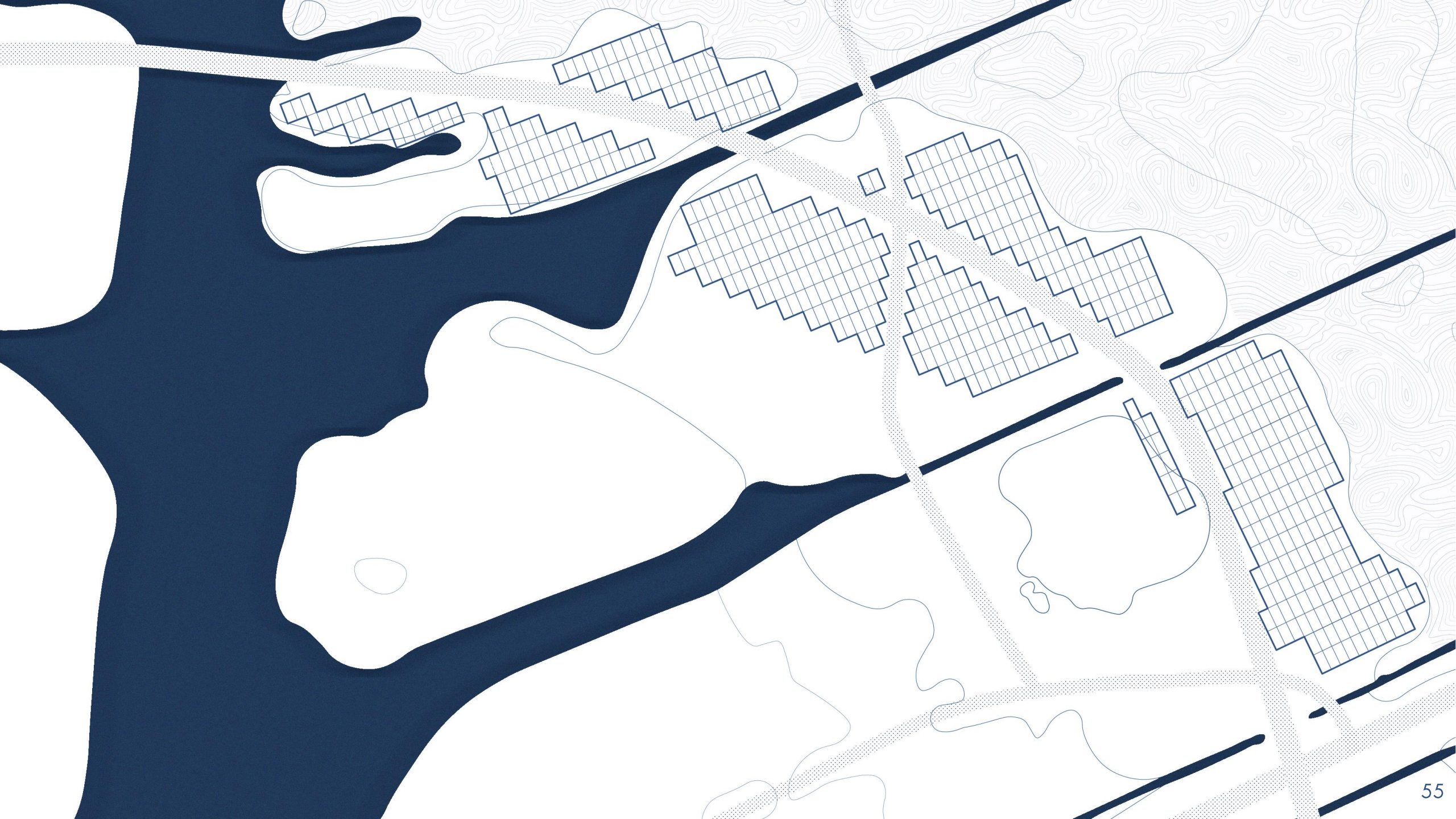


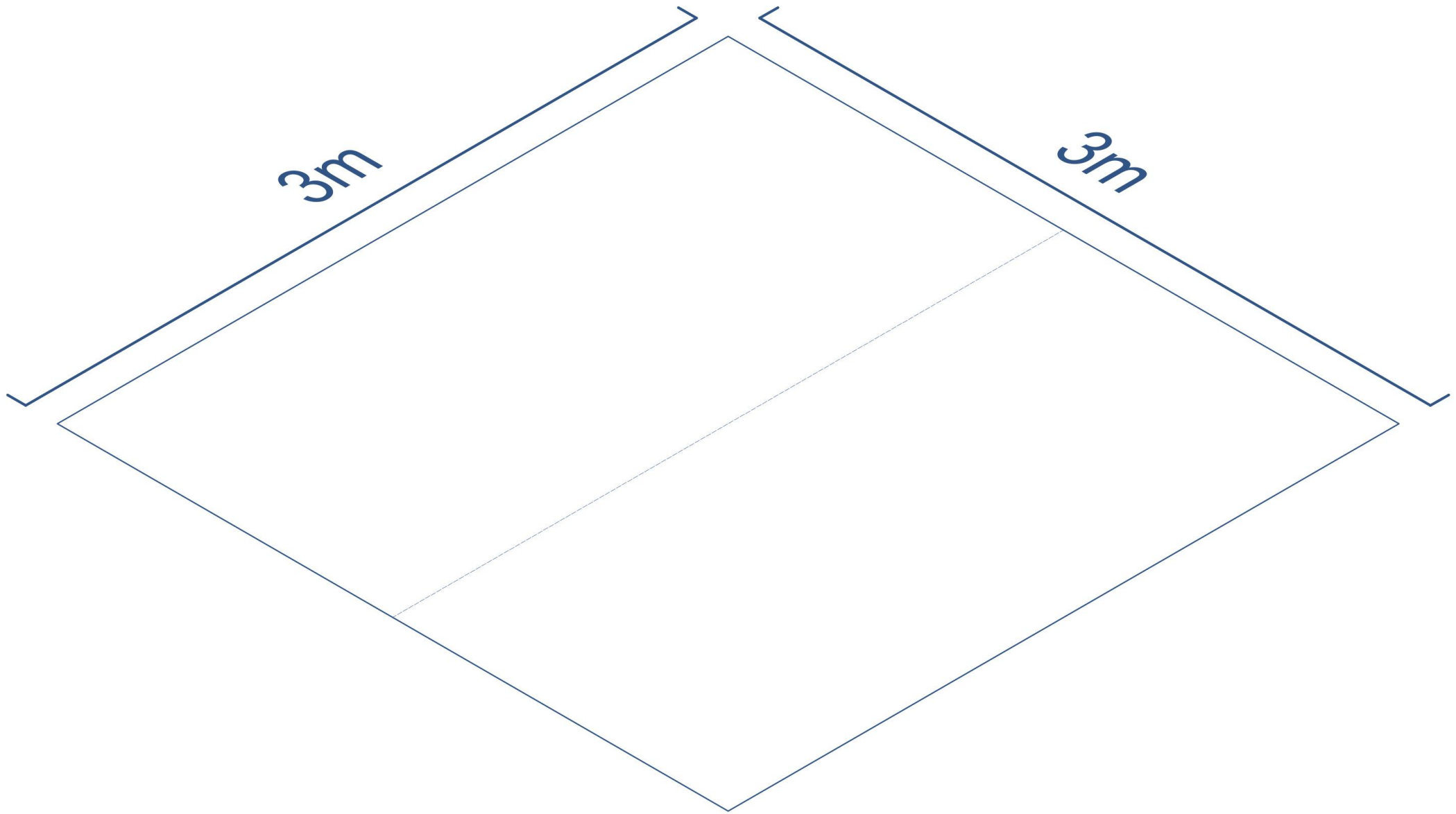
Restrictions:
Financial



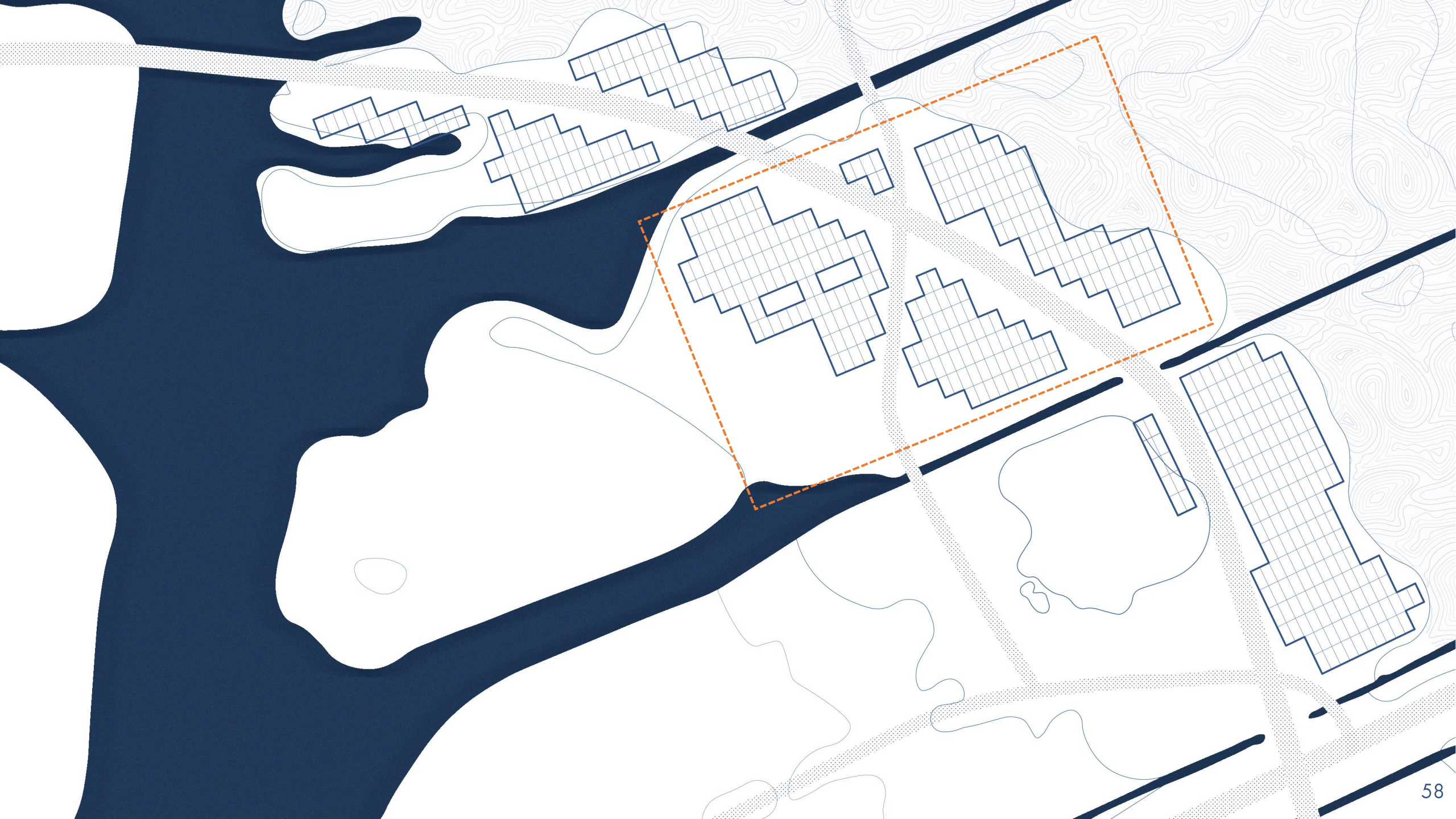














Design:
Housing Types

Sustainability



Demountability

- Mechanical connections
- Connection-free elements



Bio-Based

- Maximise bio-based materials

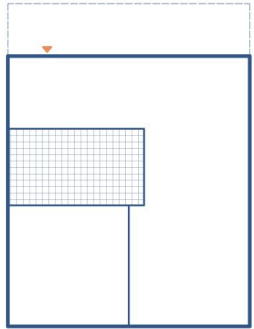
Research



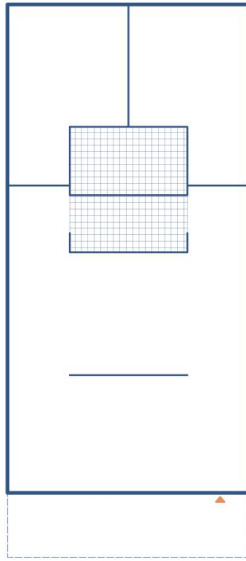
Affordability

- Mass-produced materials and dimensions
- Simple construction

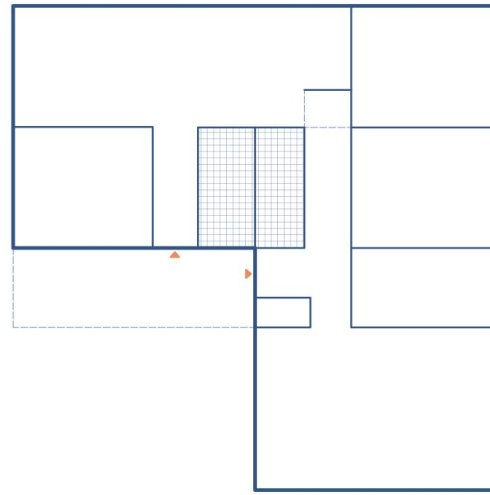
Studio



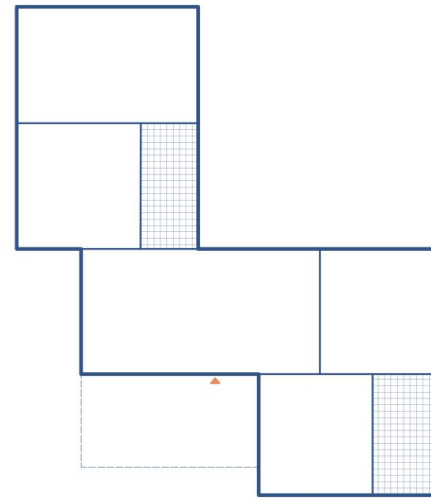
Co-Living 1



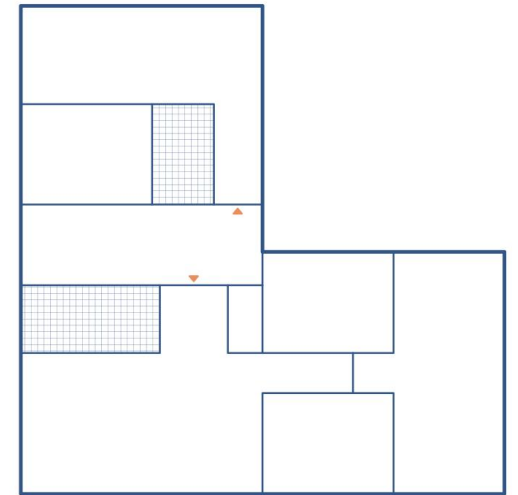
Divorced



Co-Living 2



Multi-Generational



Studio:
Design

Kitchen

Dining

Living



Bathroom

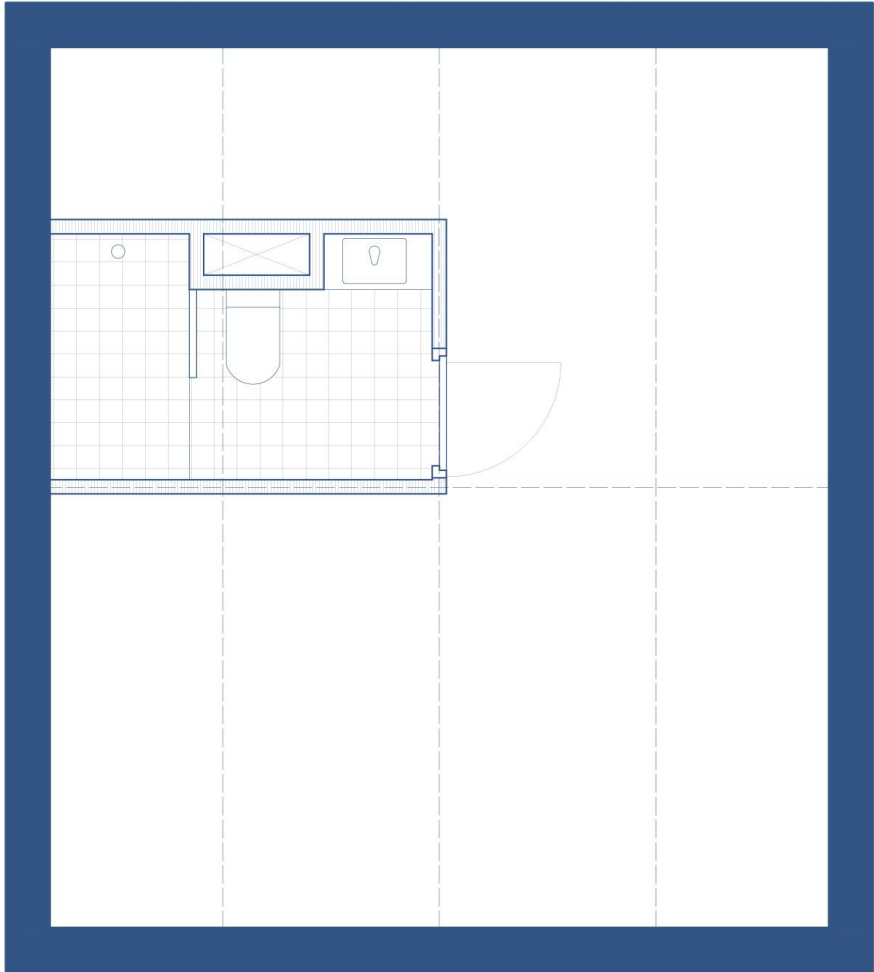


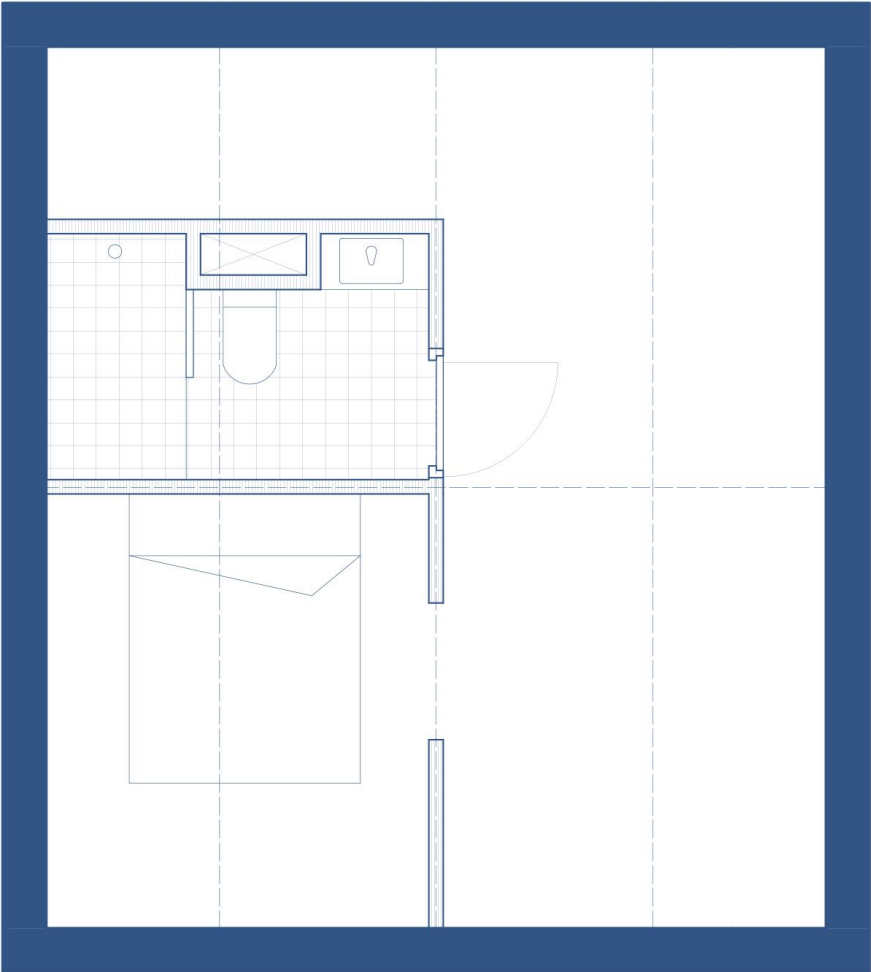
Bedroom

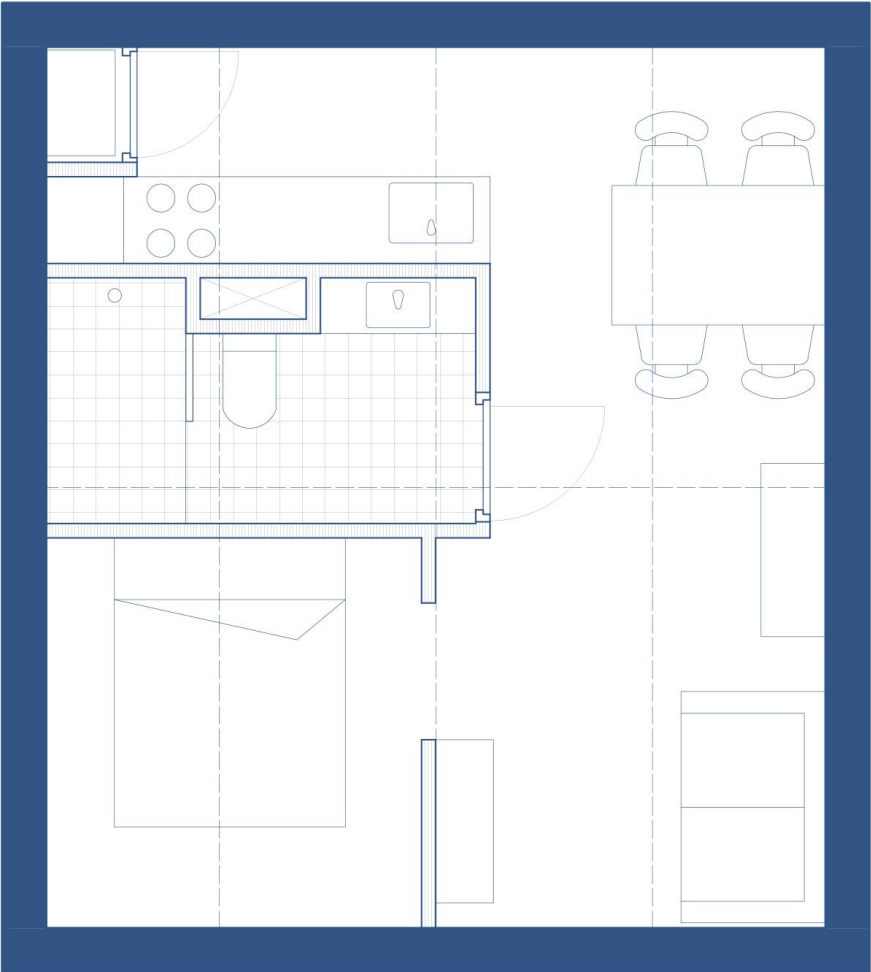
Public

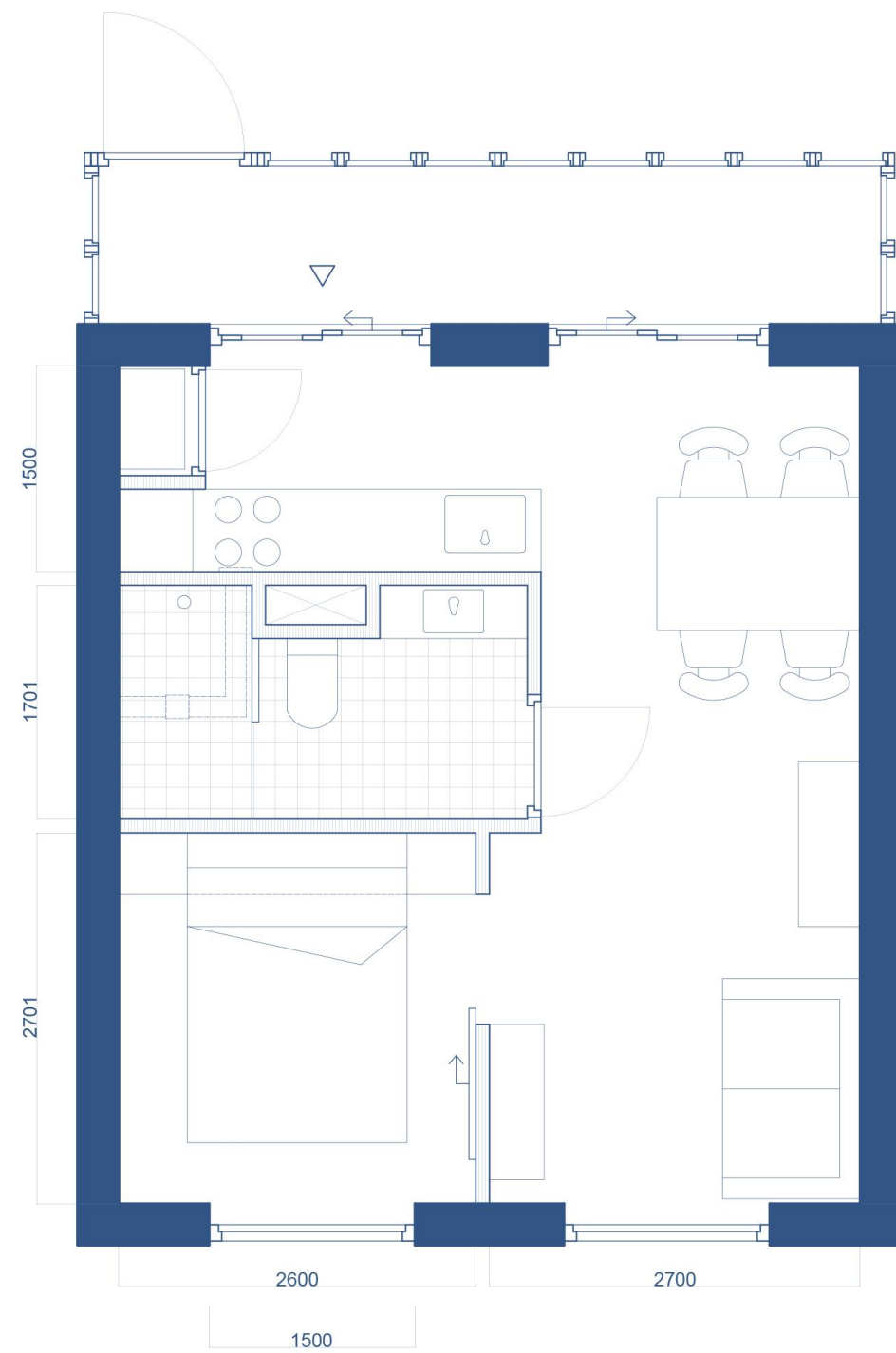


Private

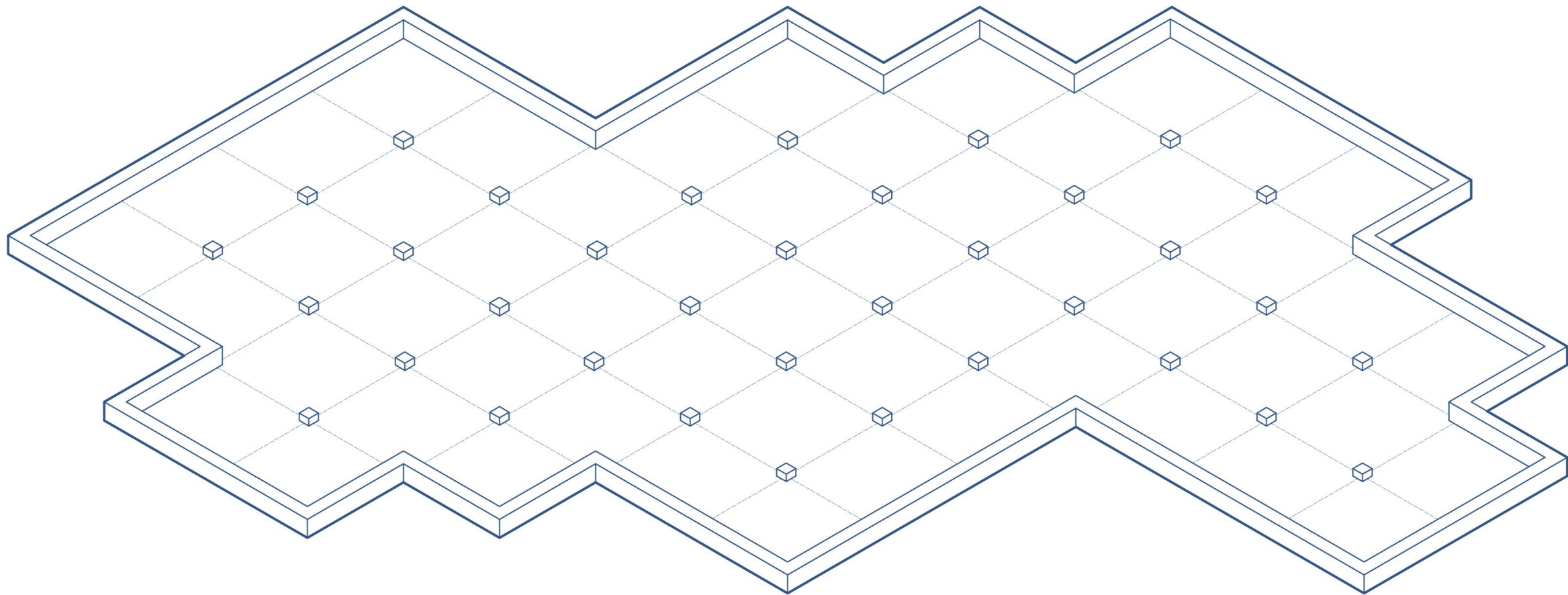


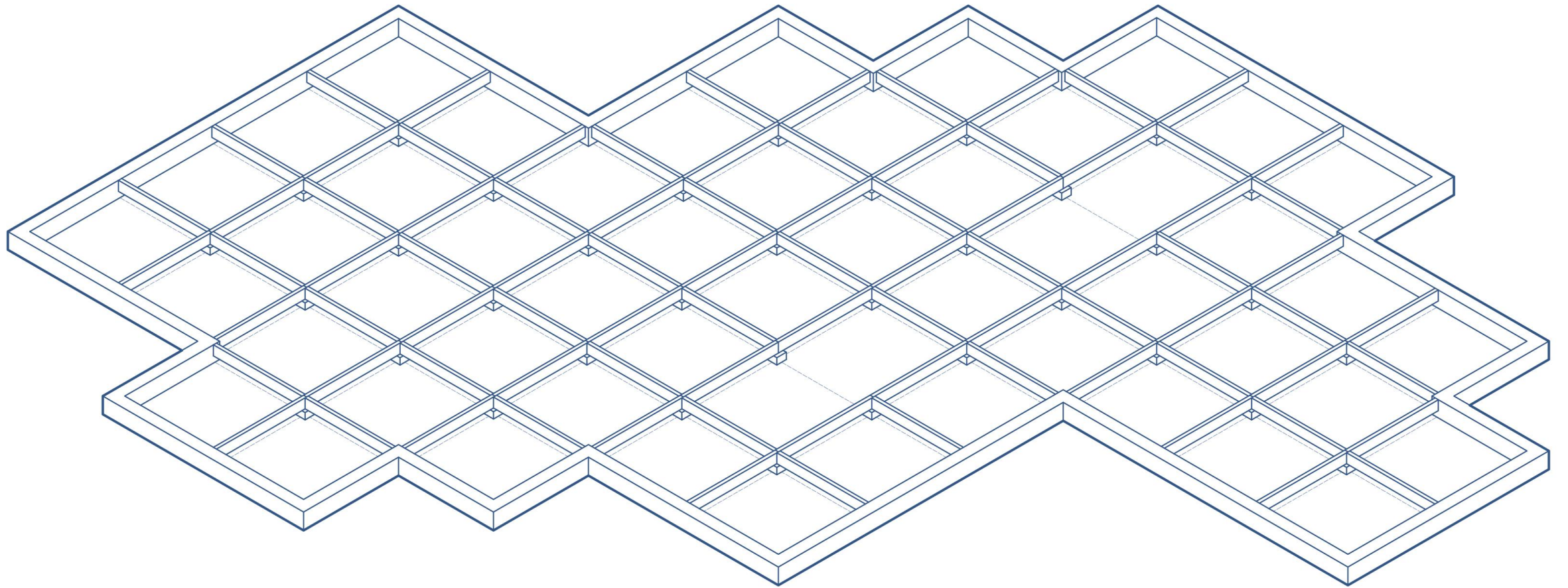


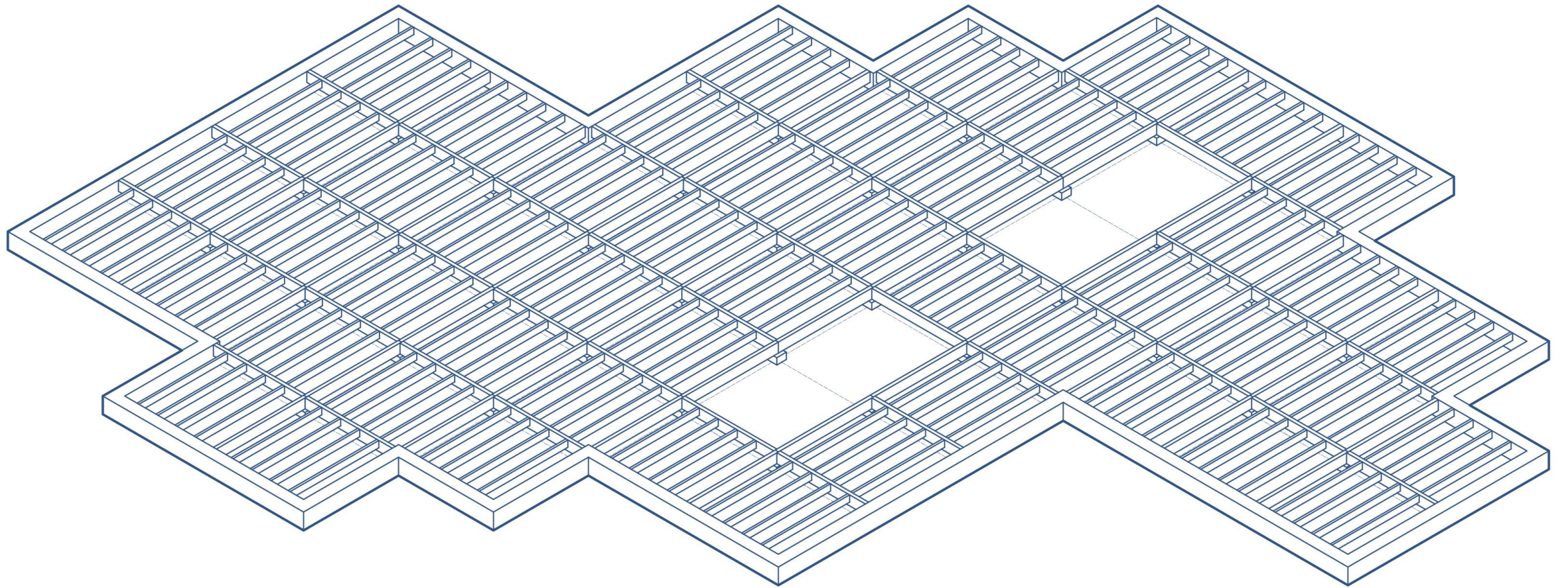


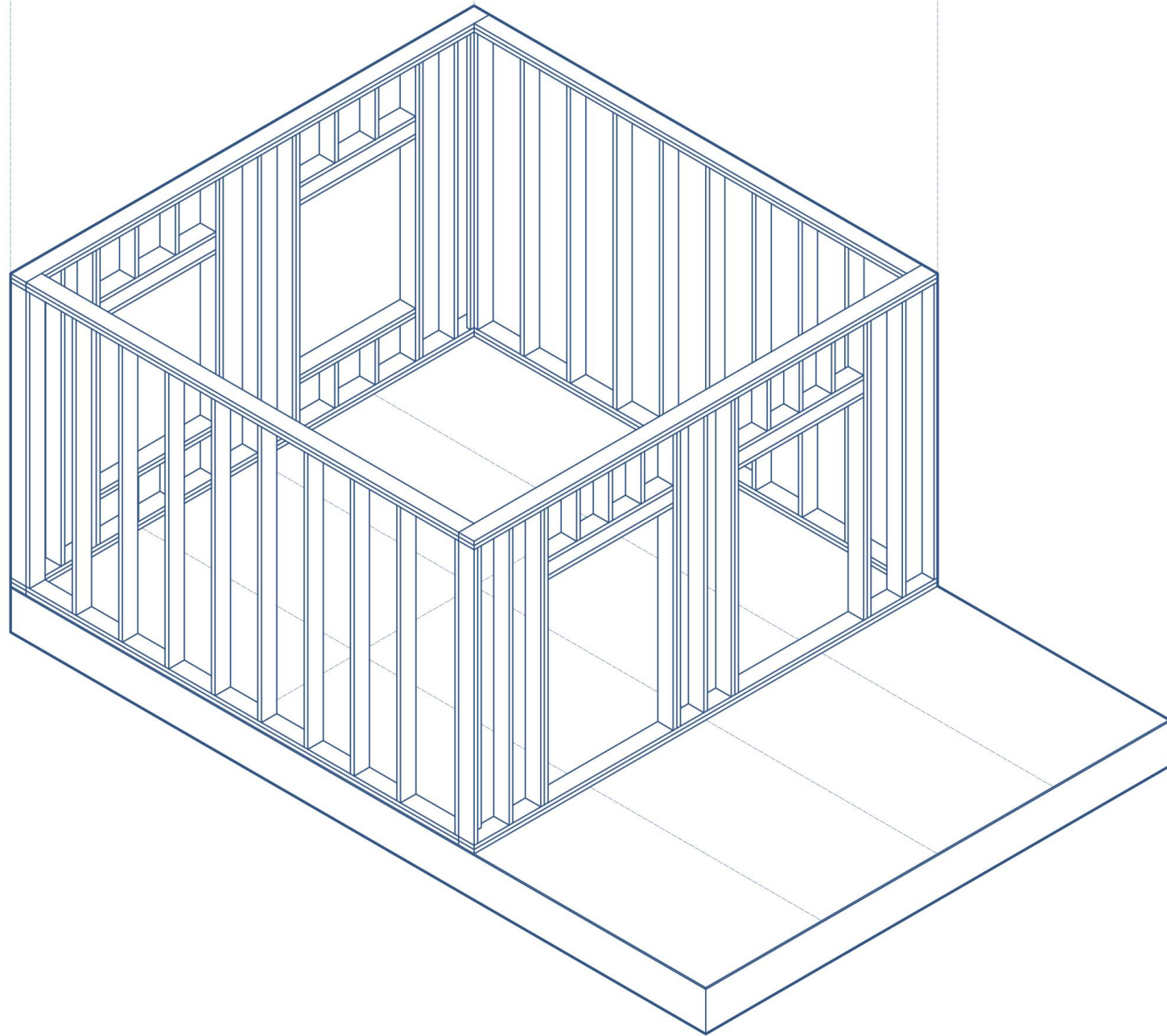


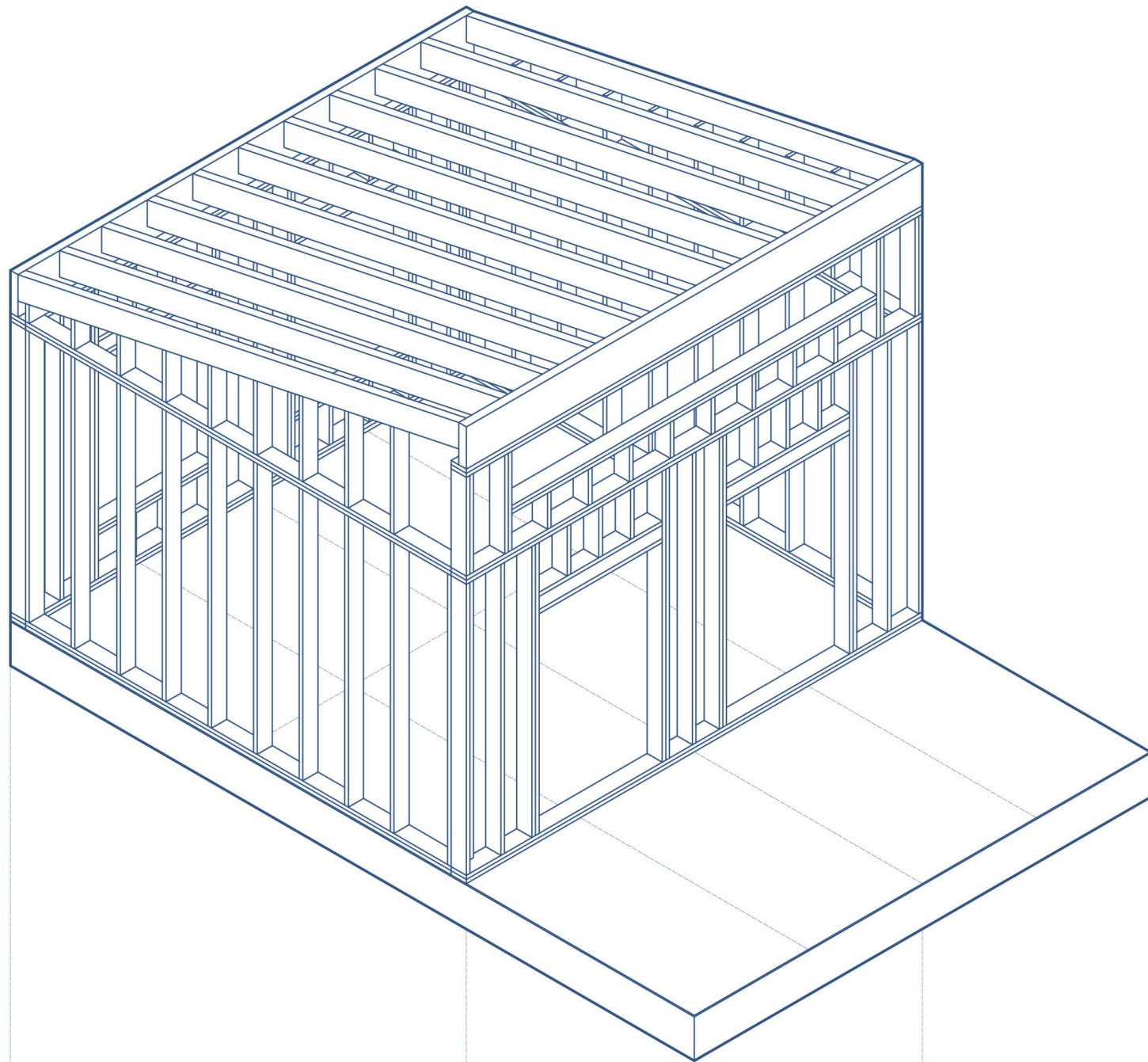
Studio:
Construction

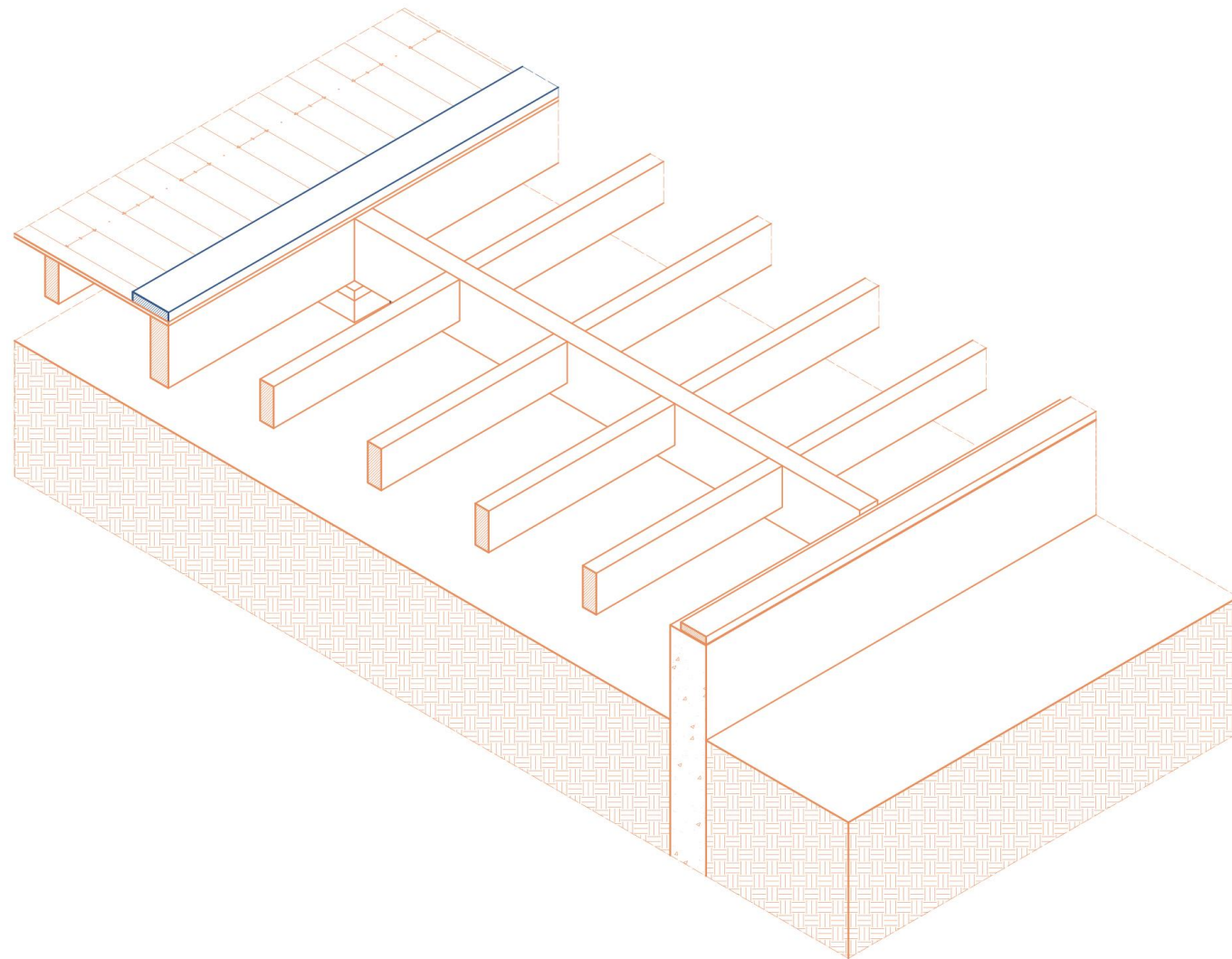


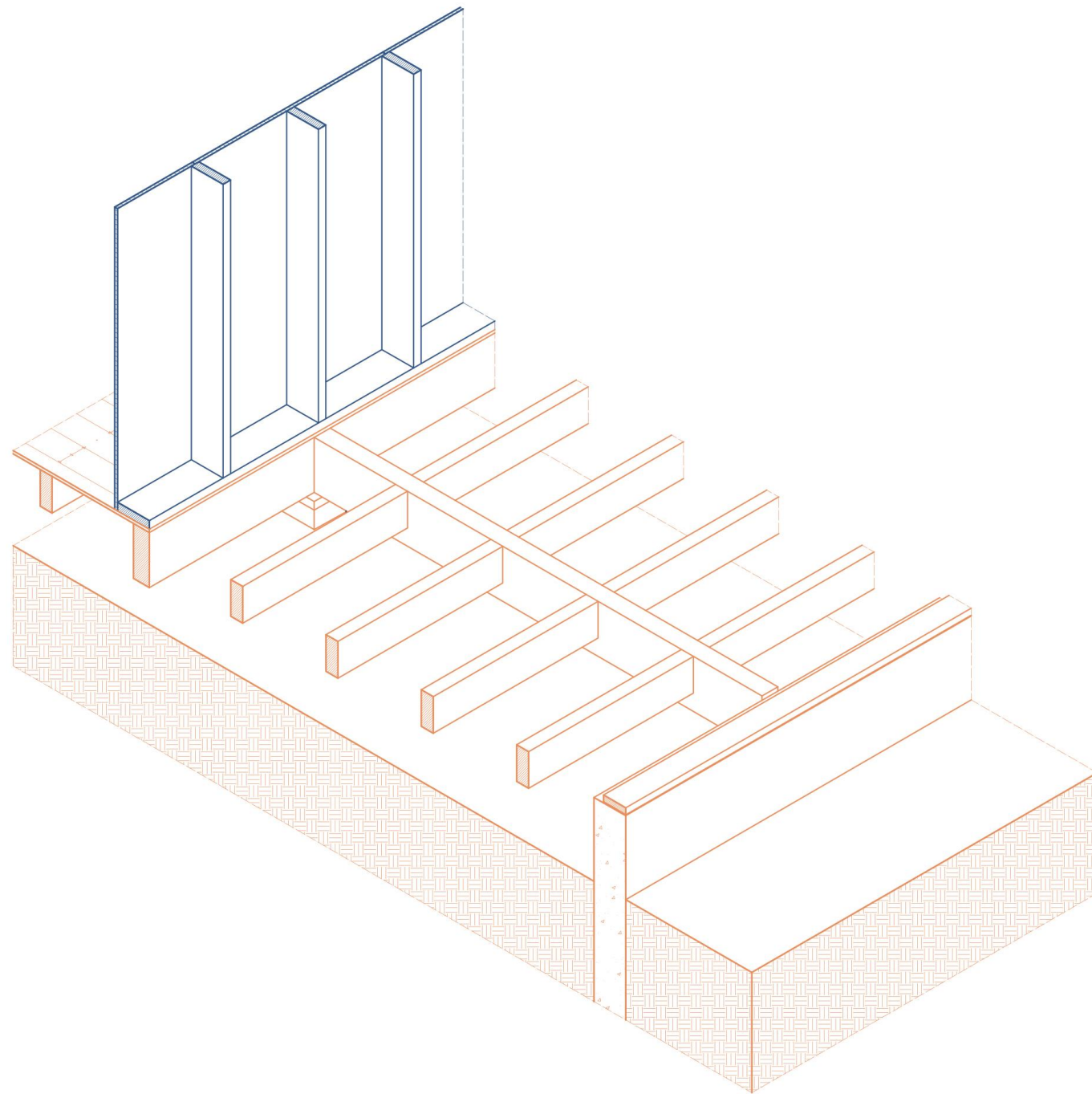


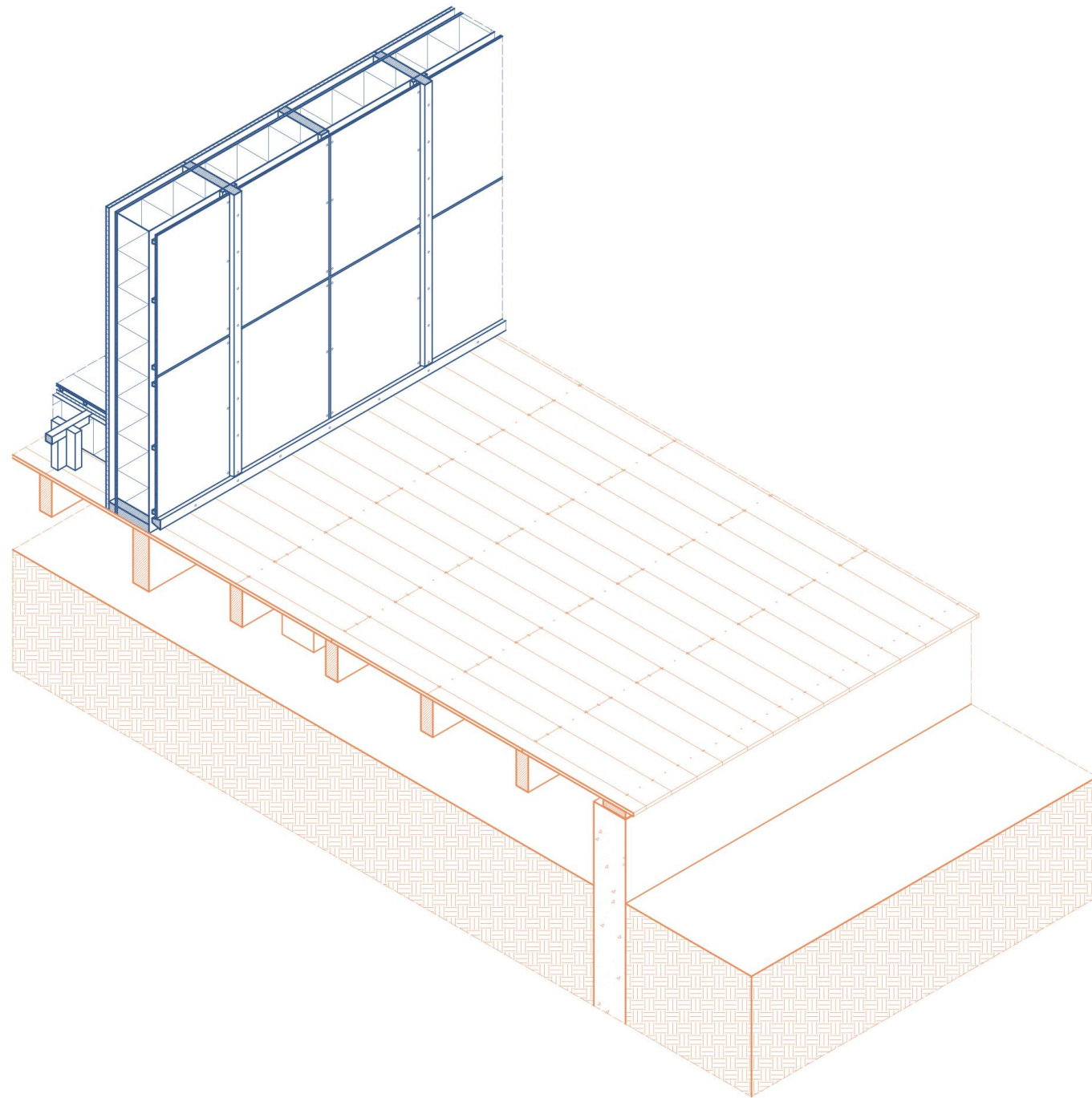


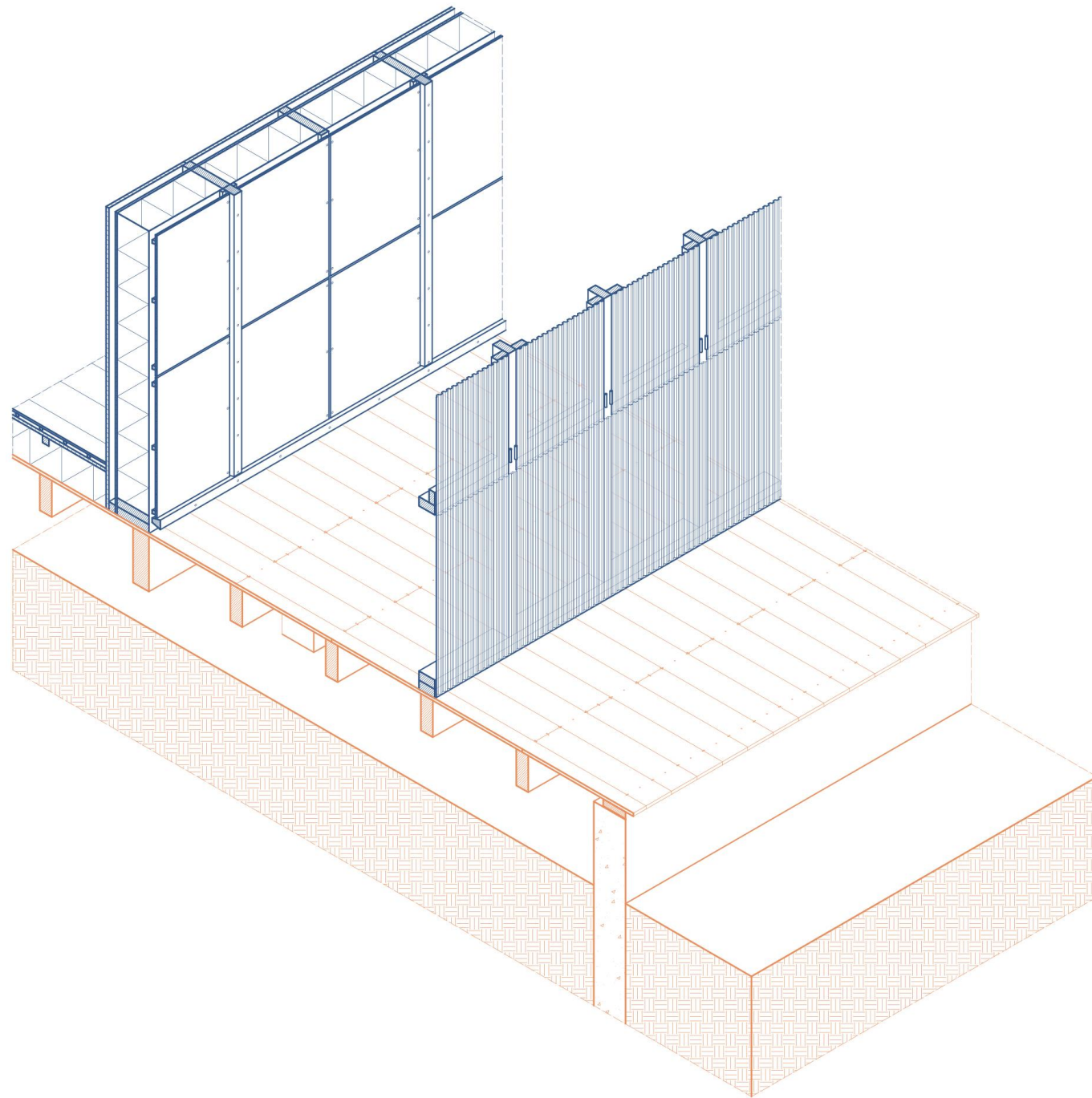


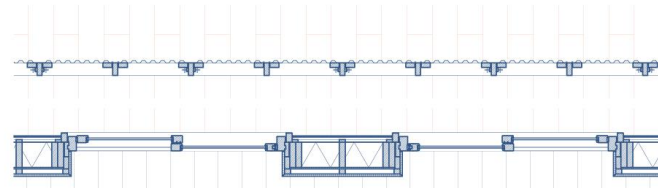
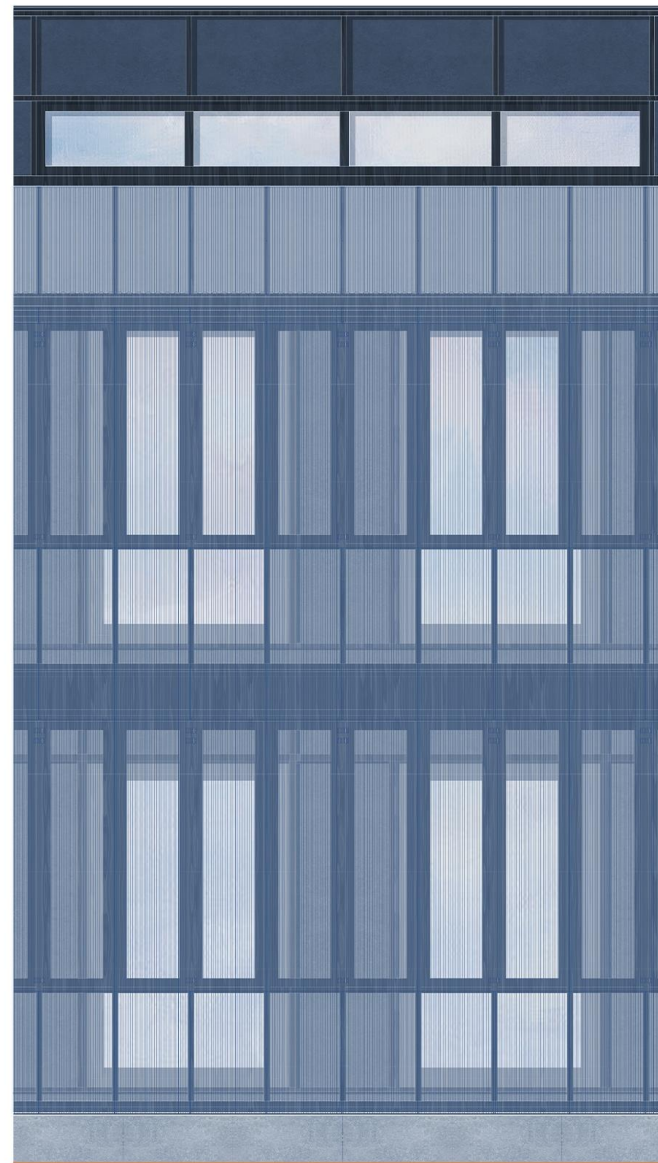
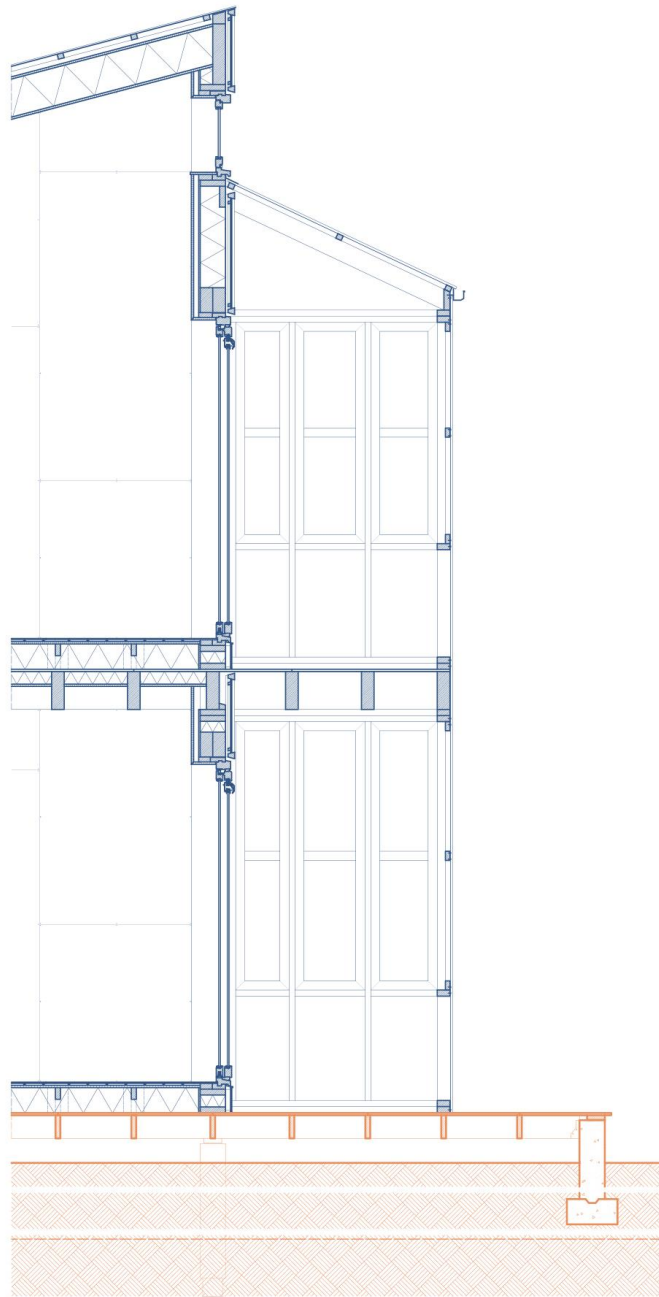


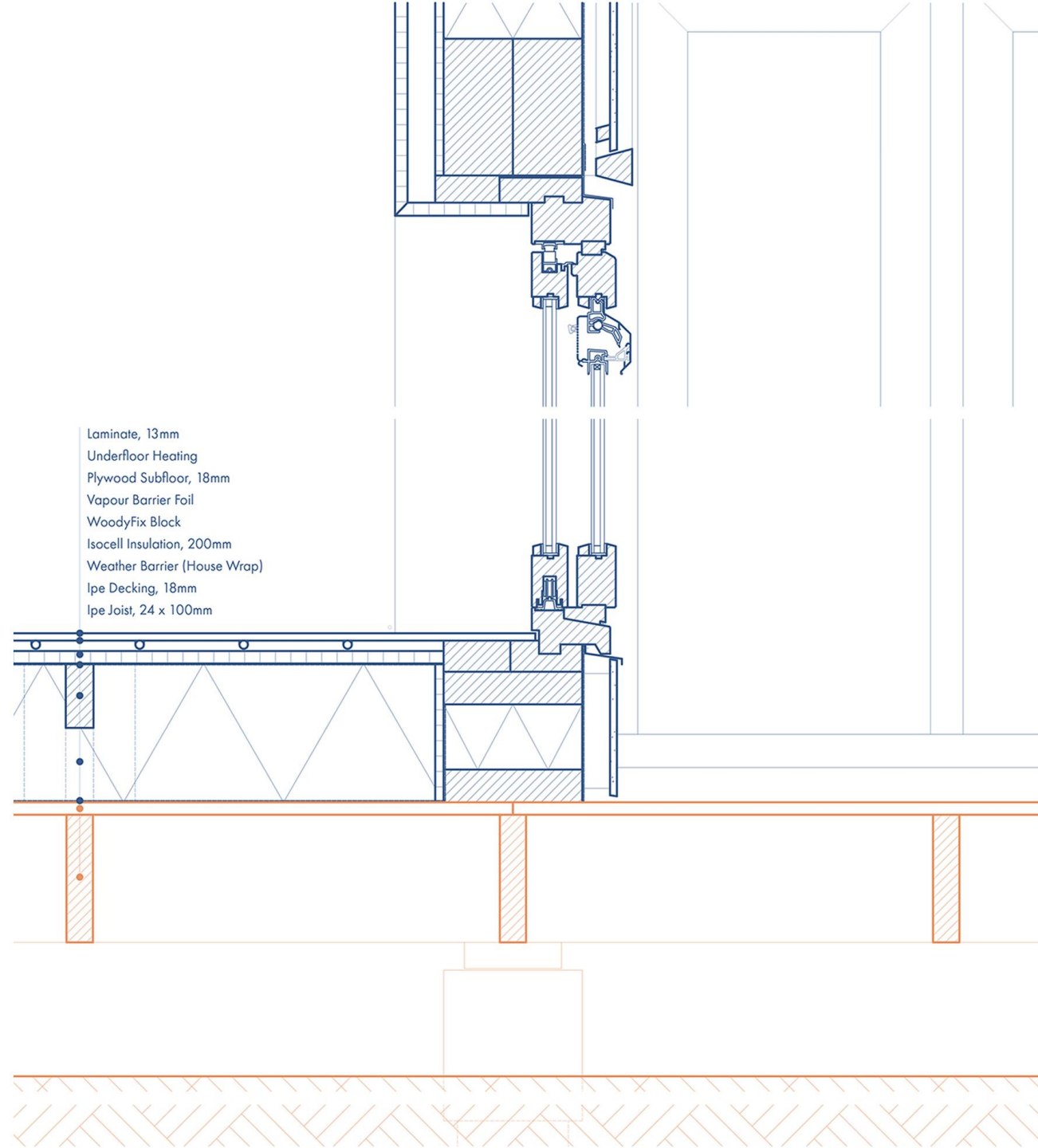




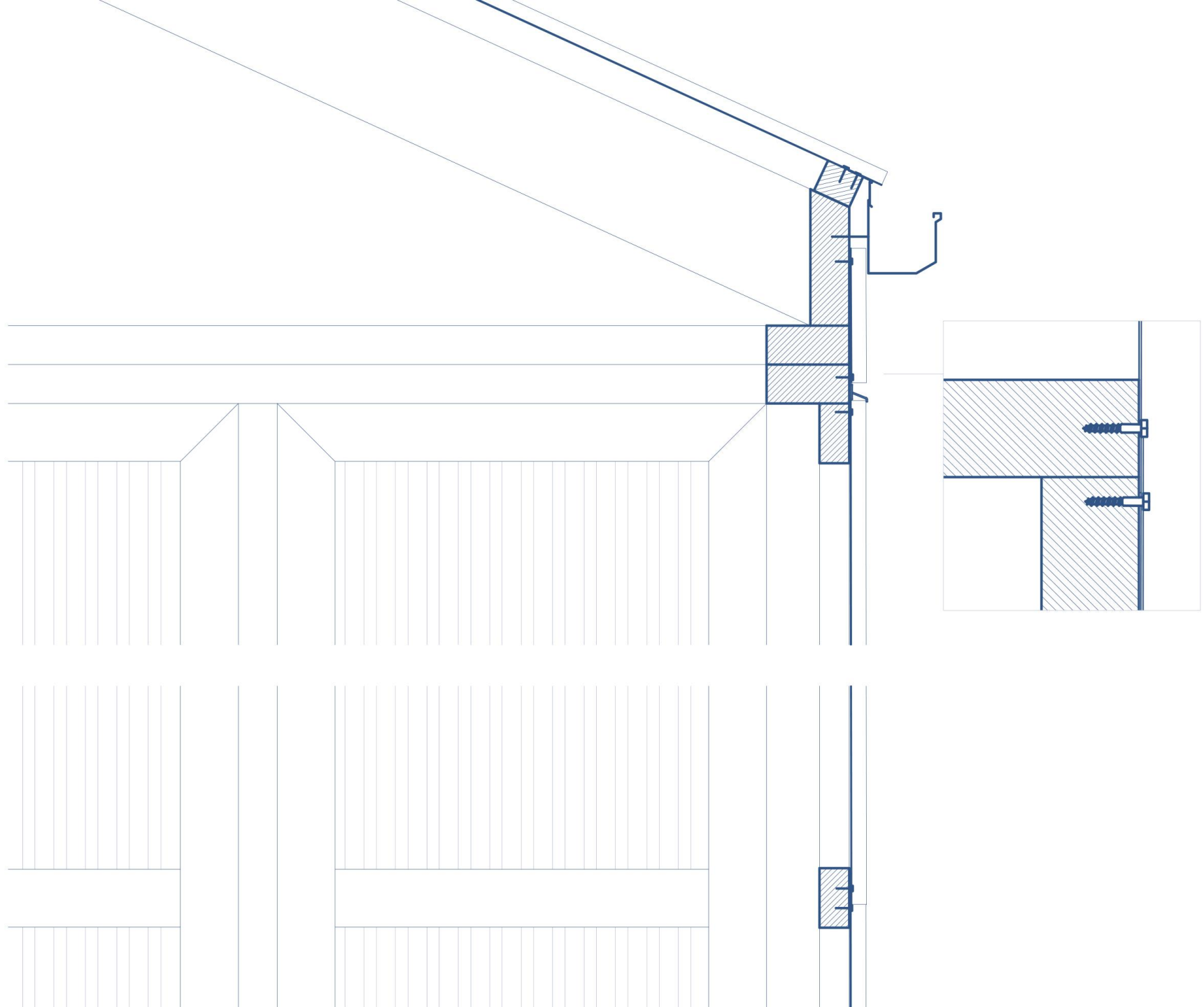


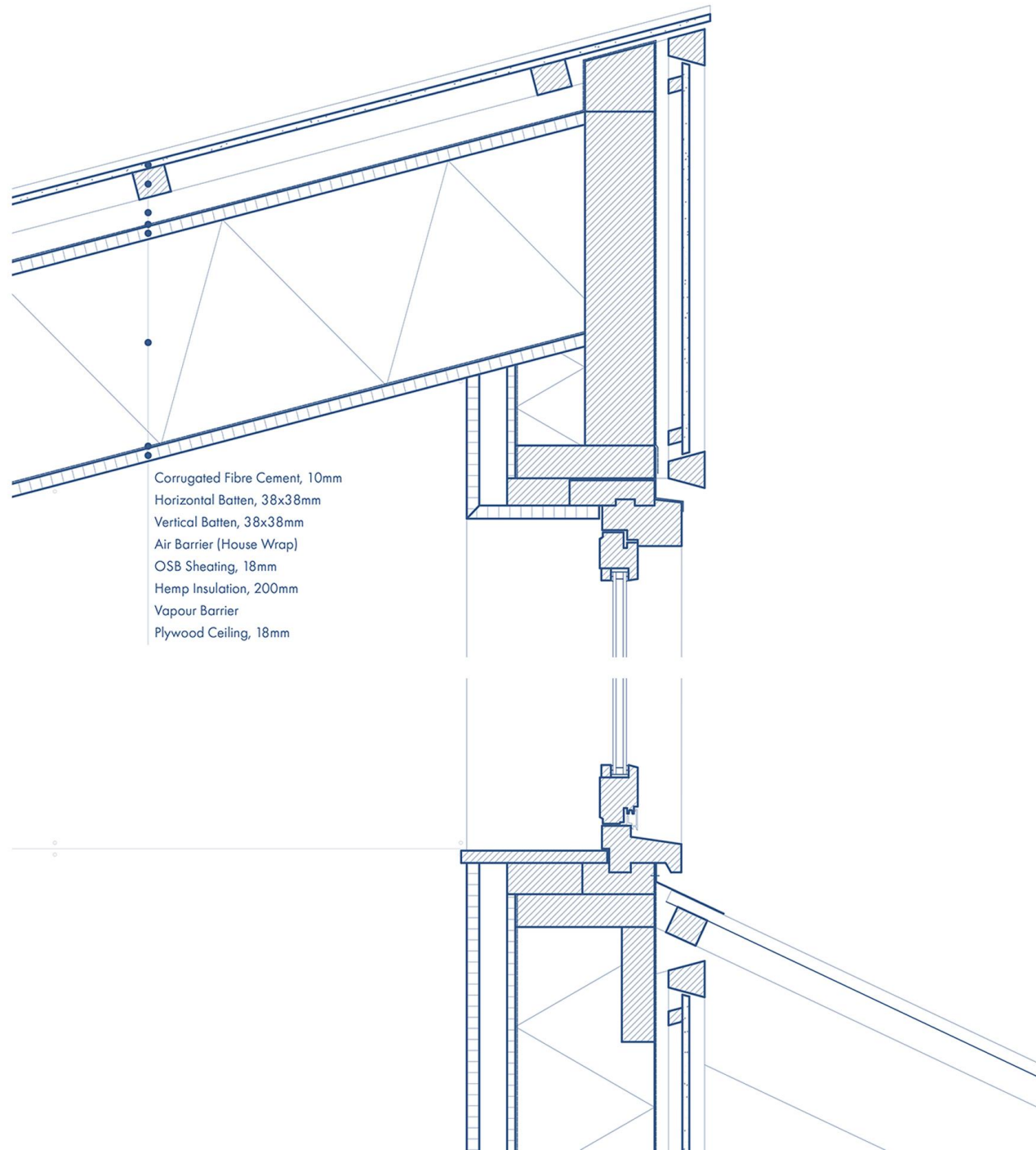




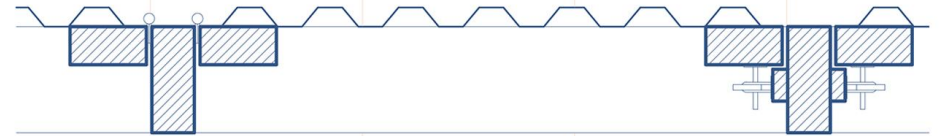
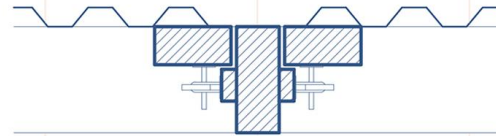
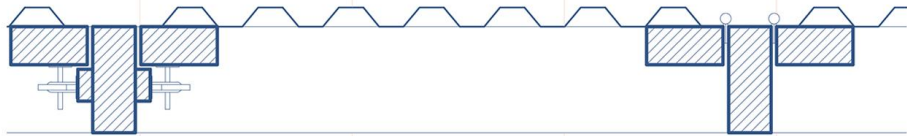


- Laminate, 13mm
- Underfloor Heating
- Plywood Subfloor, 18mm
- Vapour Barrier Foil
- WoodyFix Block
- Isocell Insulation, 200mm
- Weather Barrier (House Wrap)
- Ipe Decking, 18mm
- Ipe Joist, 24 x 100mm

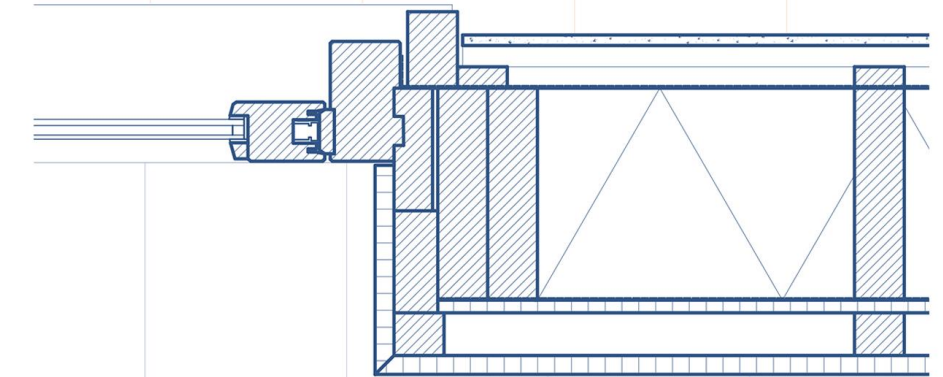
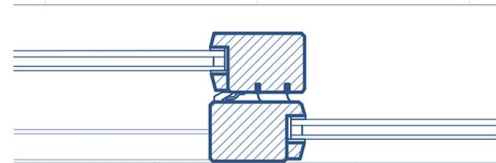
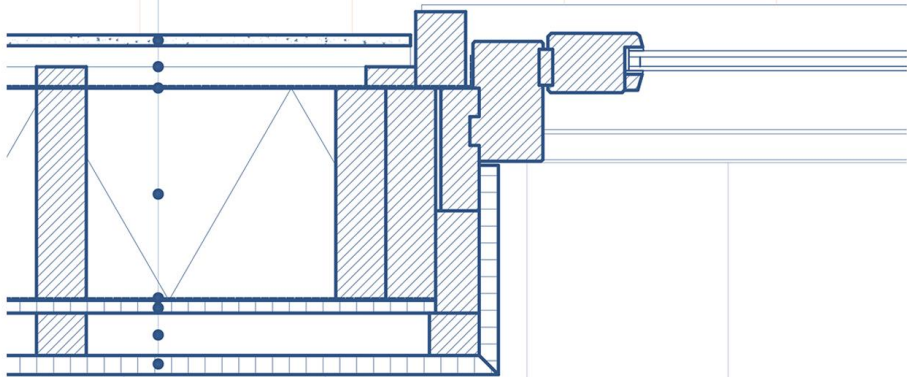




- Corrugated Fibre Cement, 10mm
- Horizontal Batten, 38x38mm
- Vertical Batten, 38x38mm
- Air Barrier (House Wrap)
- OSB Sheathing, 18mm
- Hemp Insulation, 200mm
- Vapour Barrier
- Plywood Ceiling, 18mm

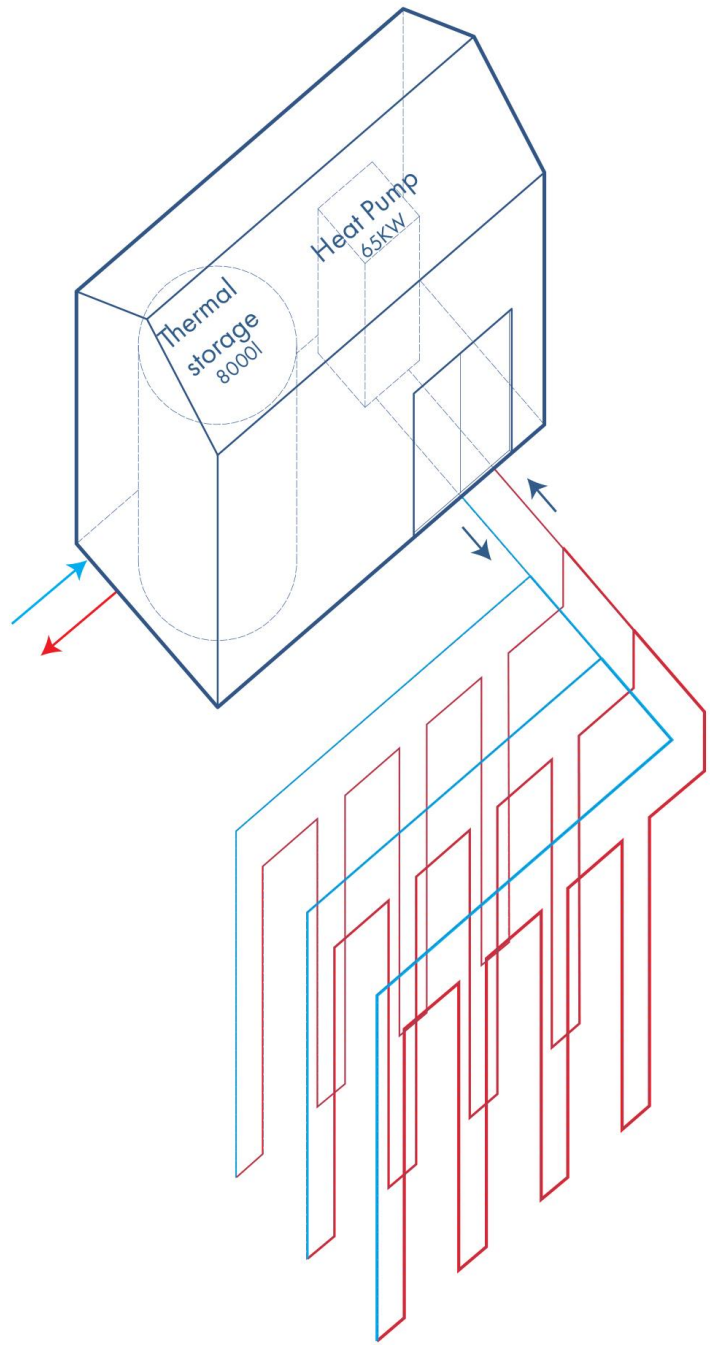


- Fibre Cement Panel, 10mm
- Cavity, 38mm
- Air Barrier (House Wrap)
- Hemp Insulation, 200mm
- Vapour Barrier
- OSB Sheathing, 12mm
- Service Shaft, 50mm
- Plywood Wall Finishing, 18mm

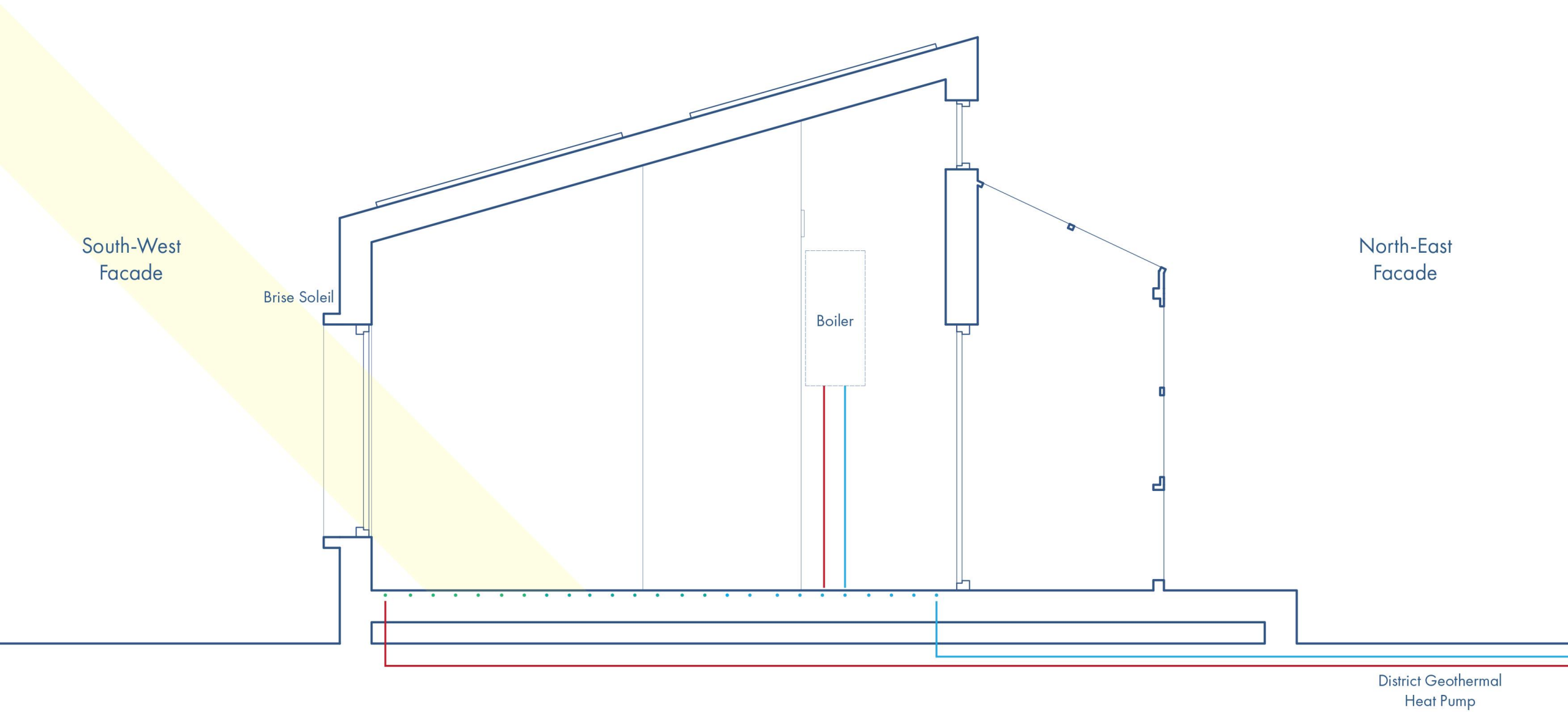


Studio:
Climate

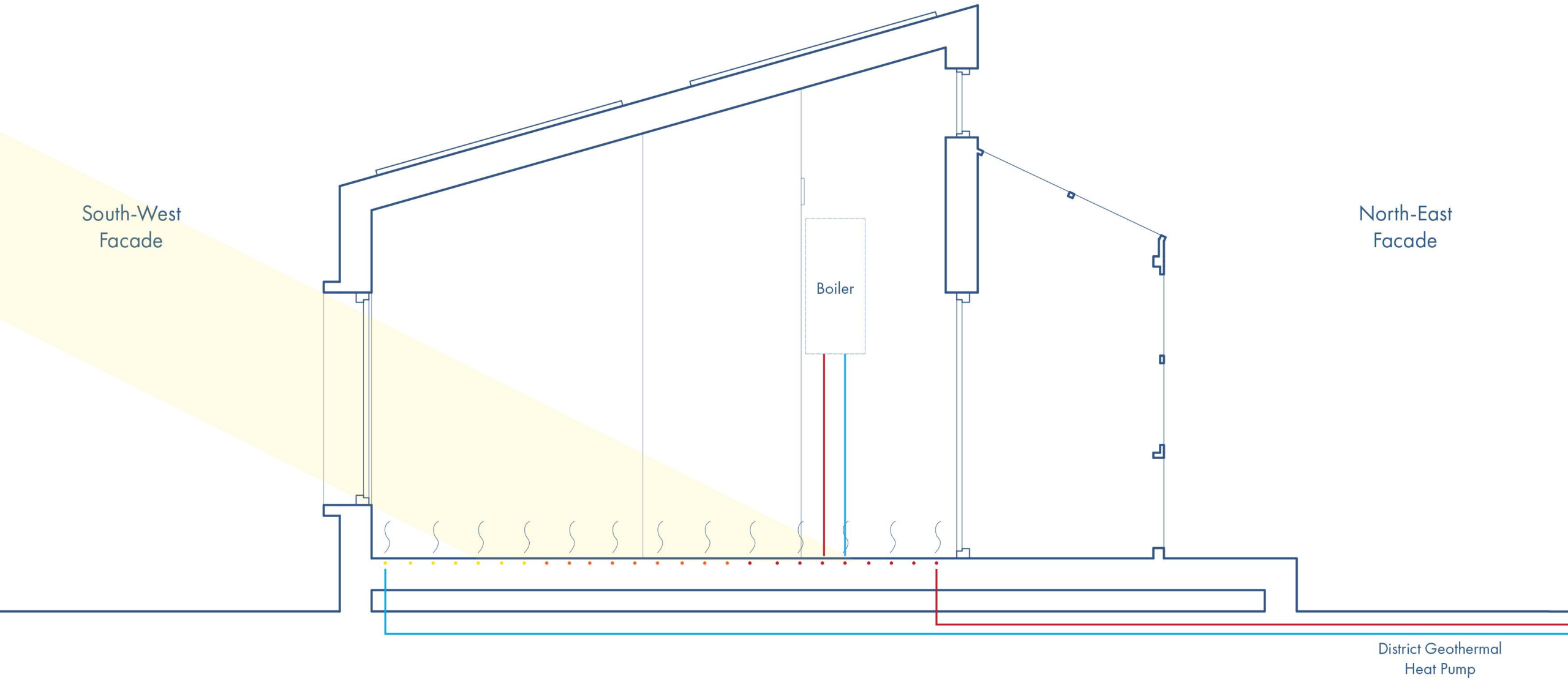




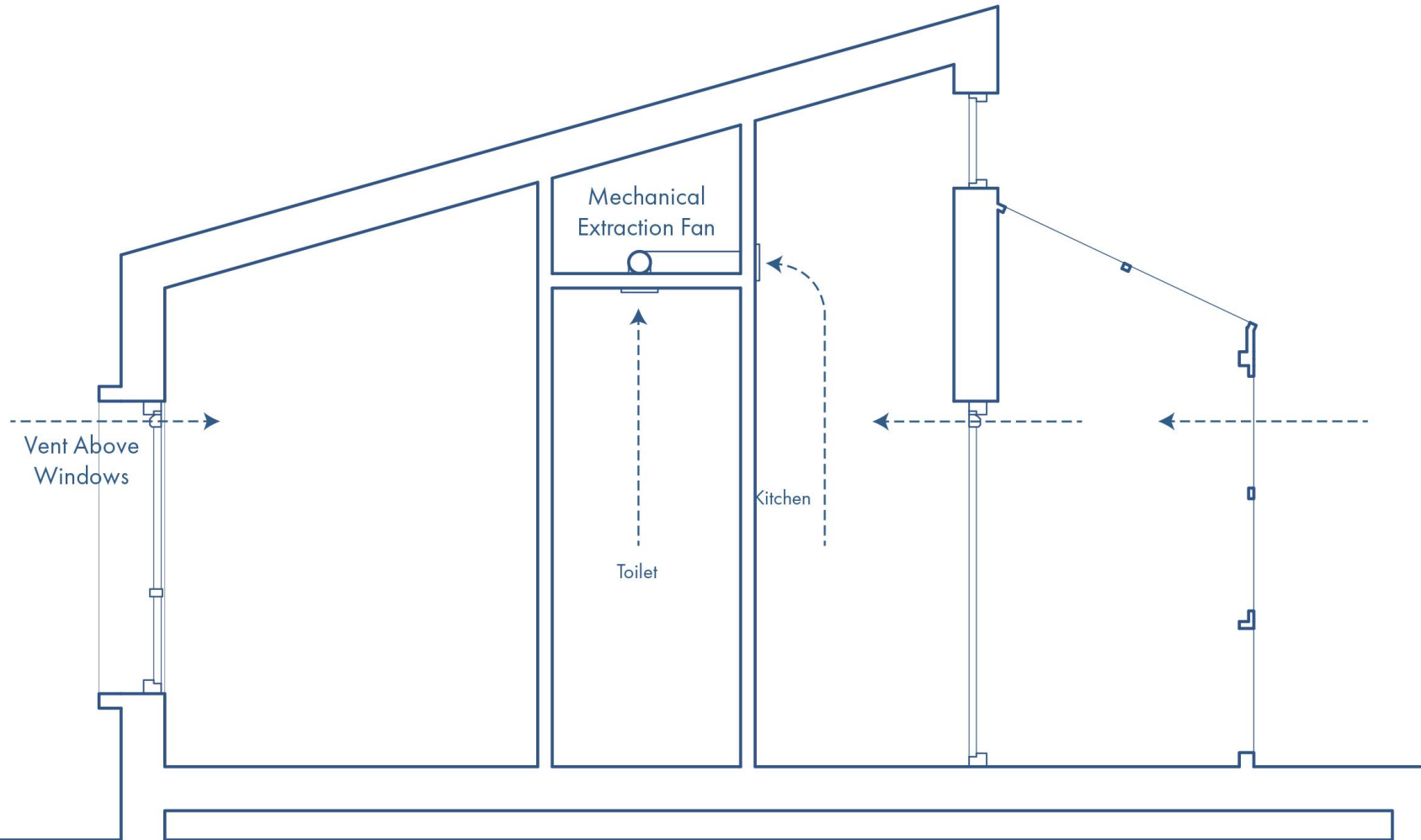
Summer



Winter

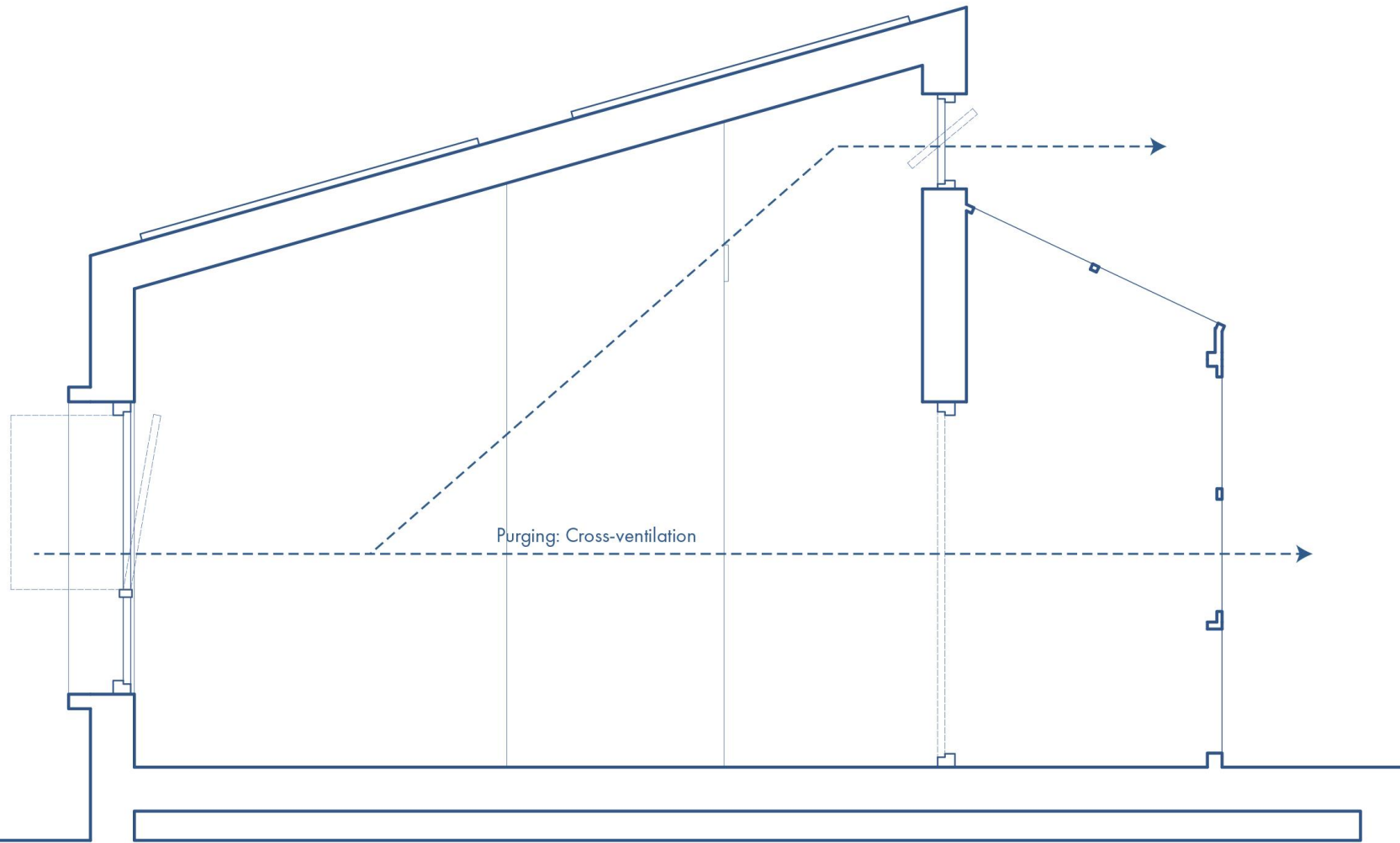


South-West
Facade



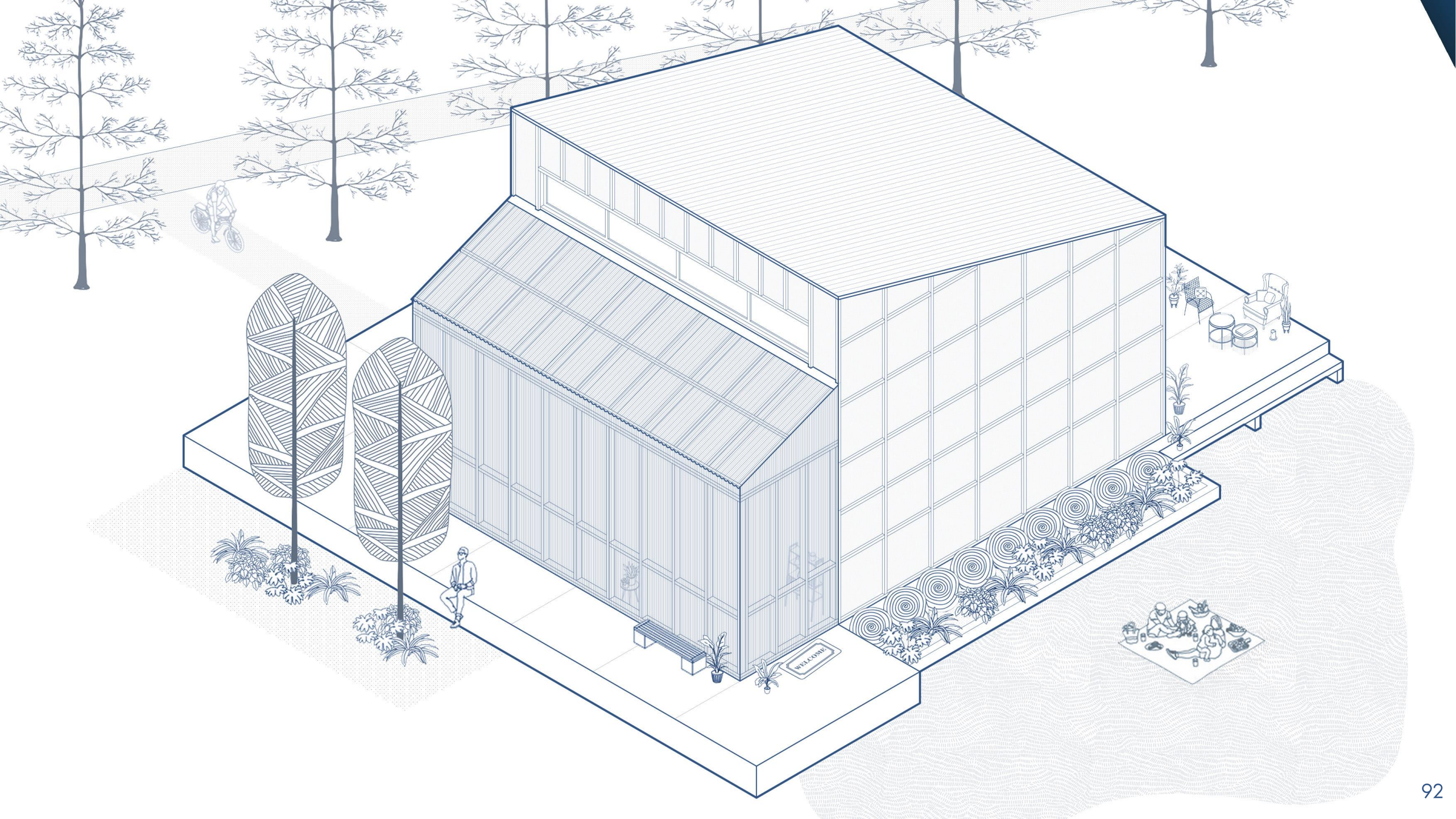
North-East
Facade

South-West
Facade

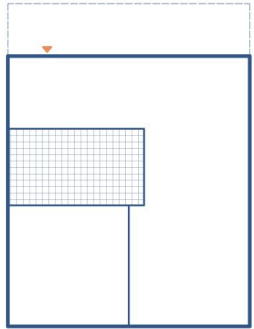


North-East
Facade

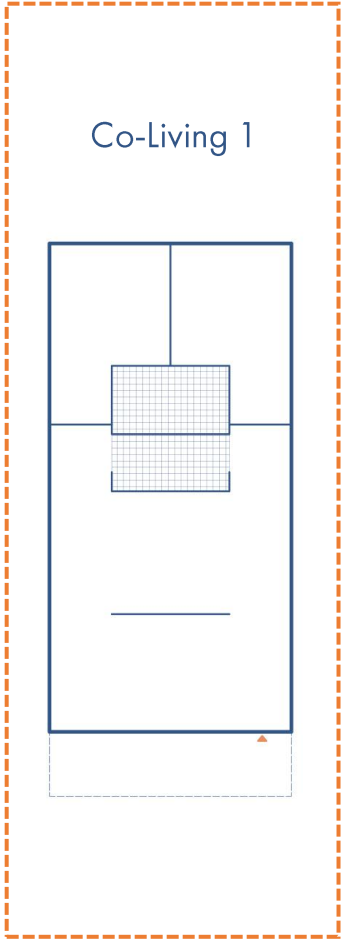
Purging: Cross-ventilation



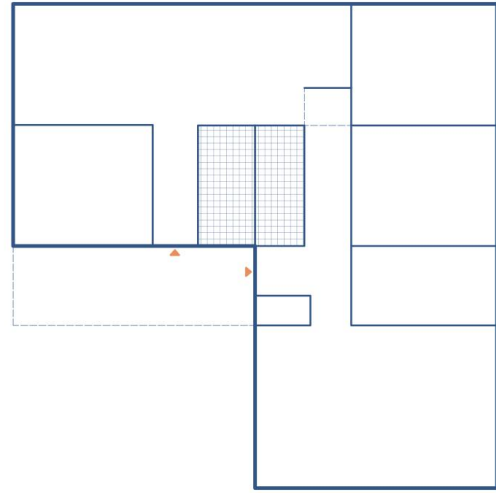
Studio



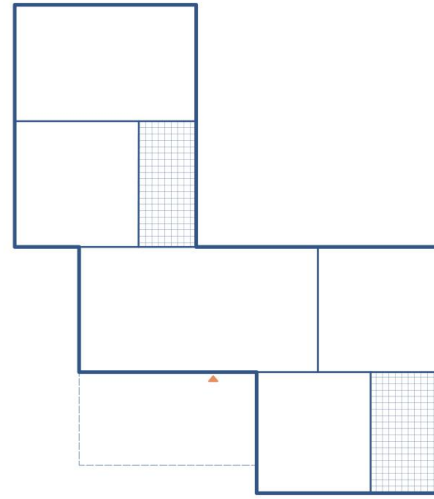
Co-Living 1



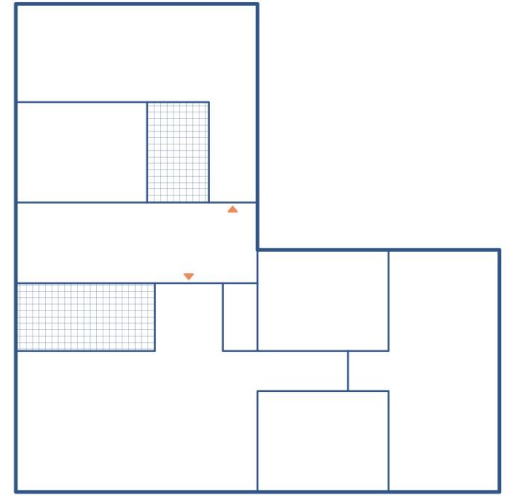
Divorced



Co-Living 2



Multi-Generational



Kitchen

Dining

Living



Bathroom



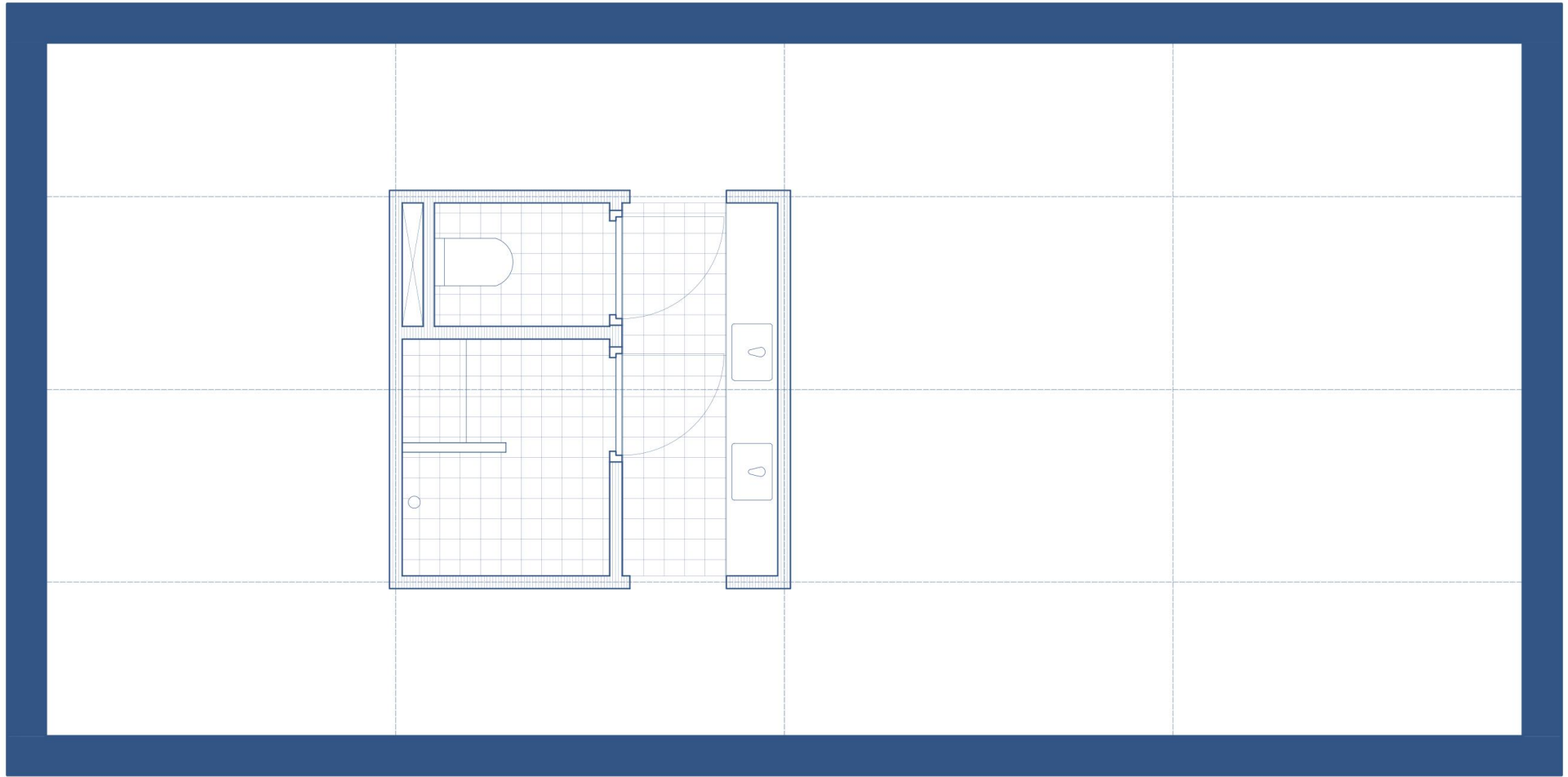
Bedroom

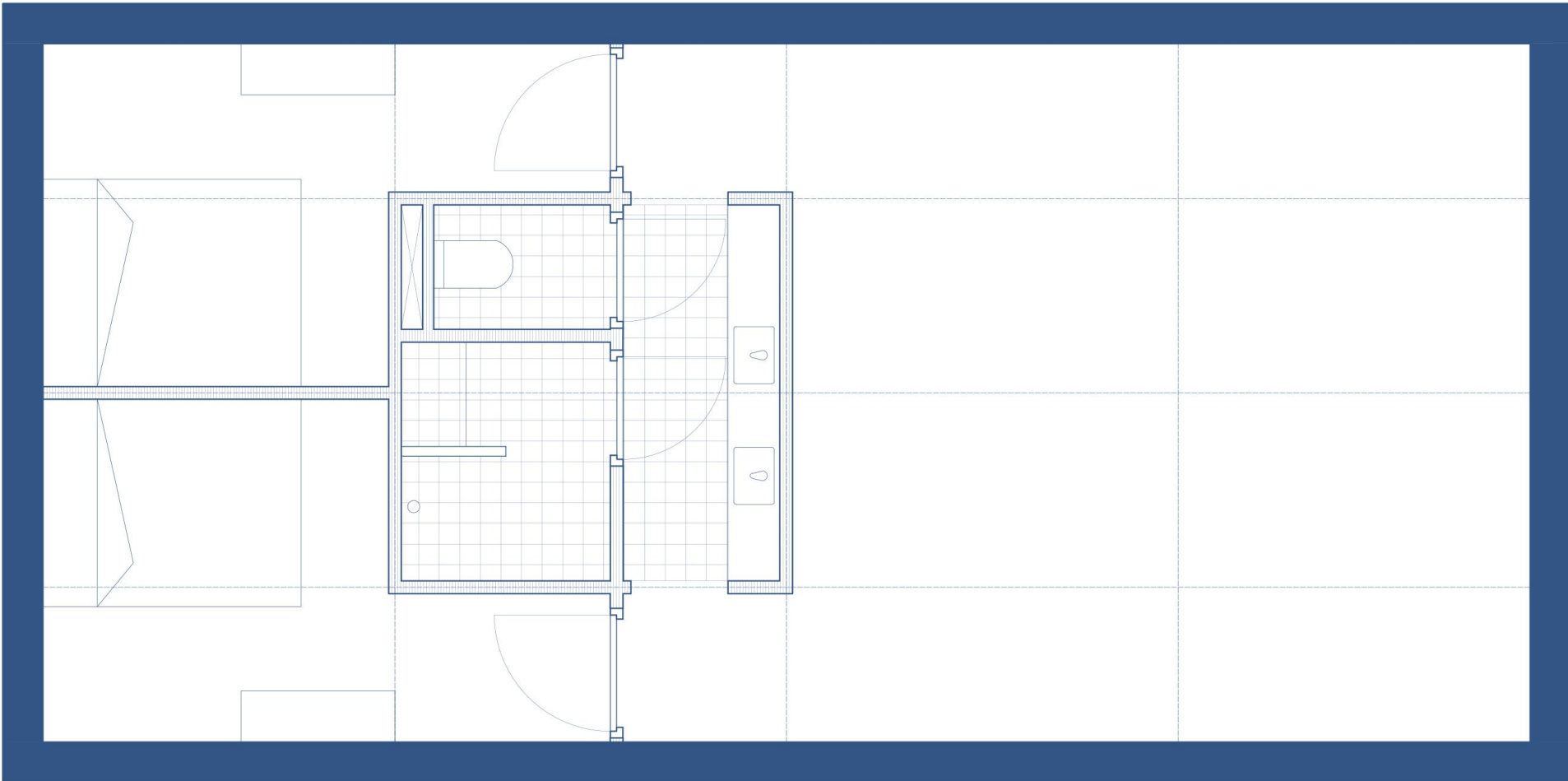
Public

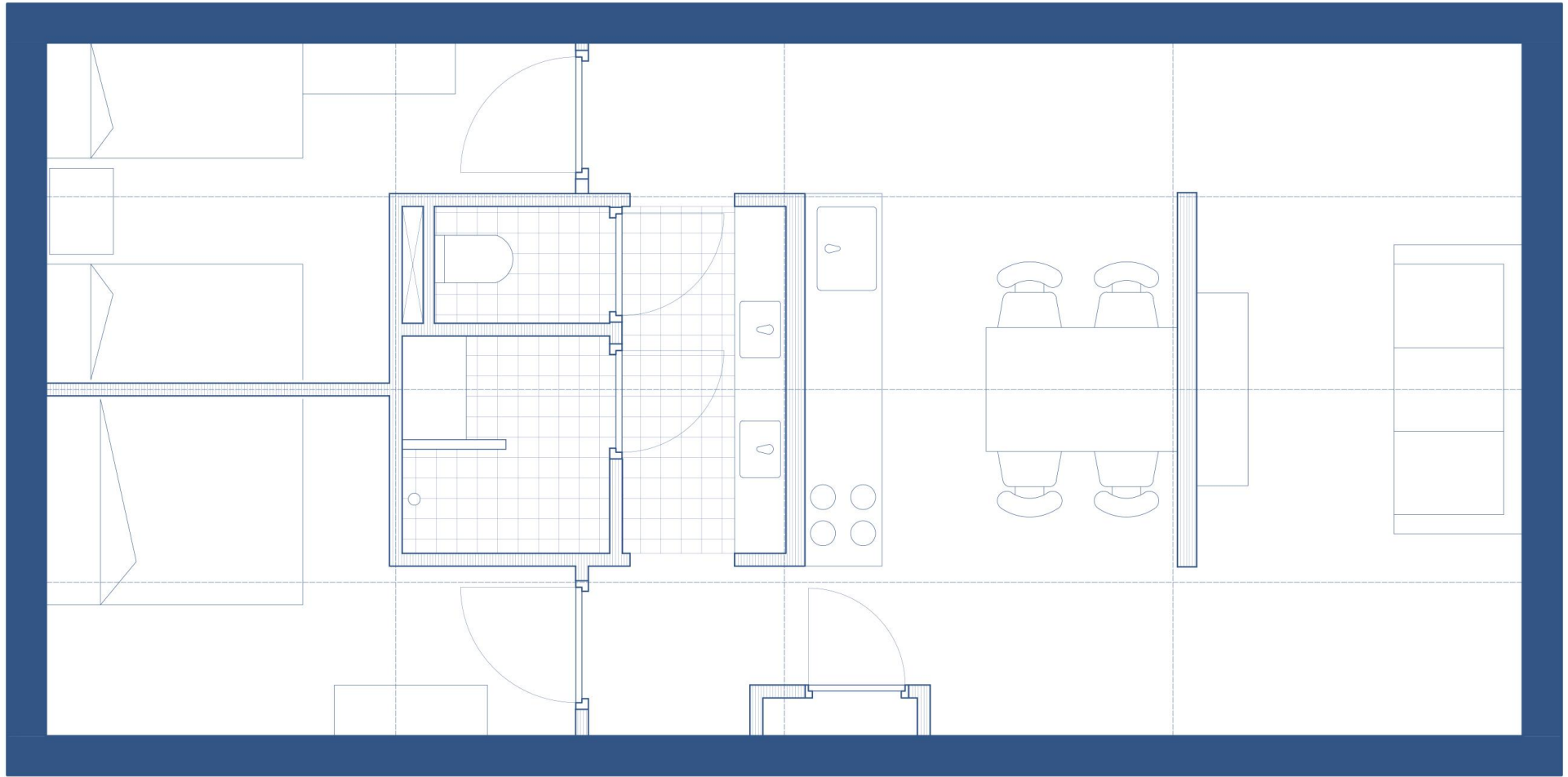


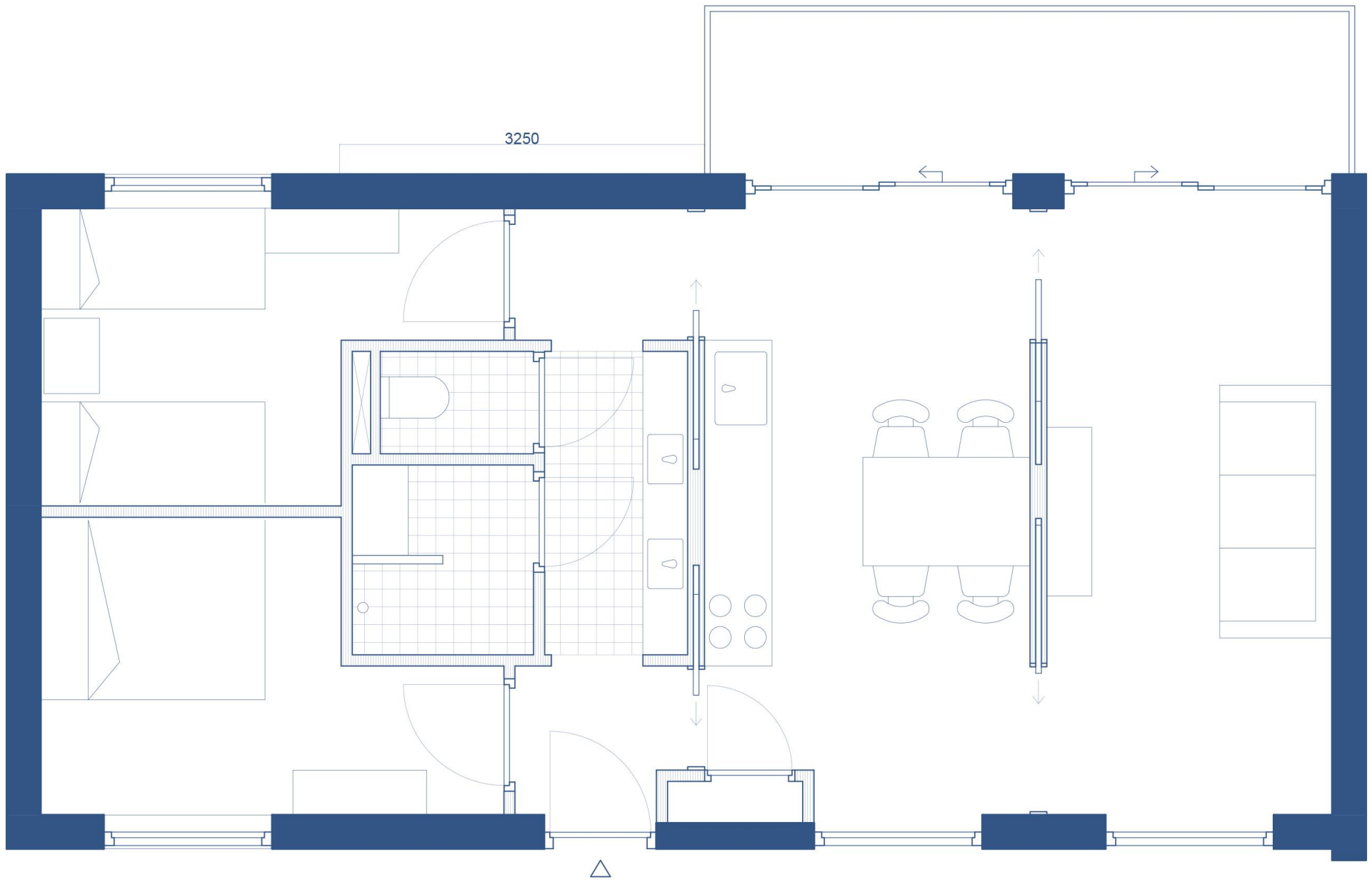
Private

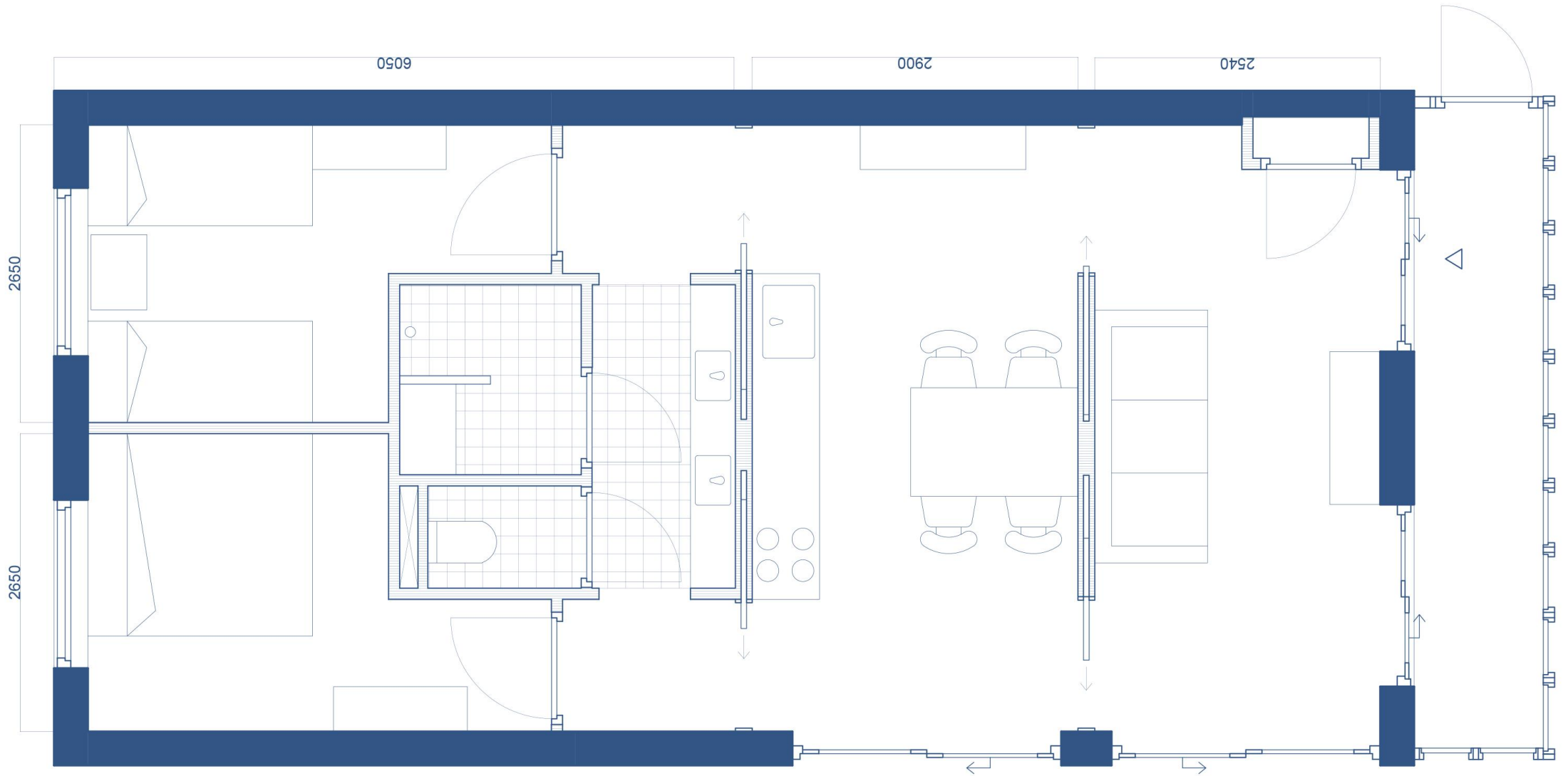


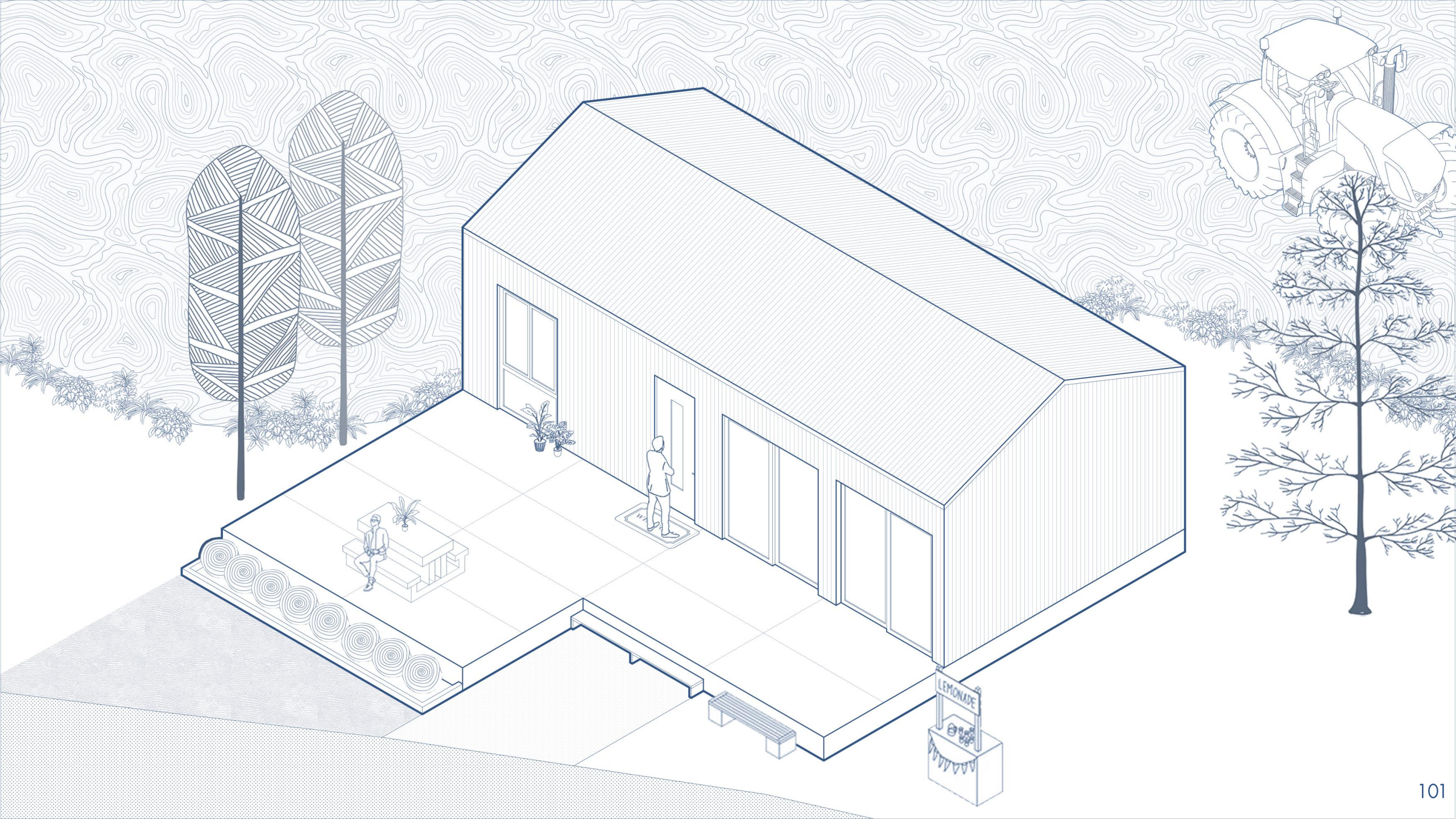




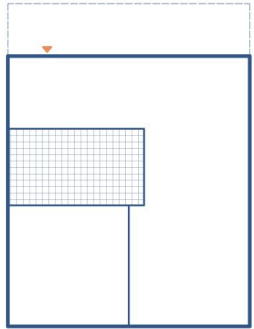




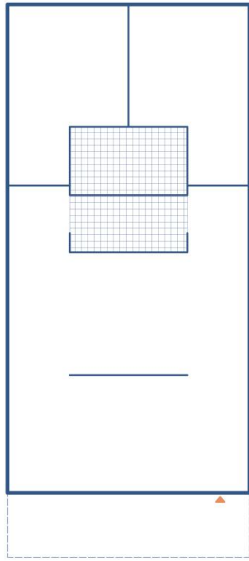




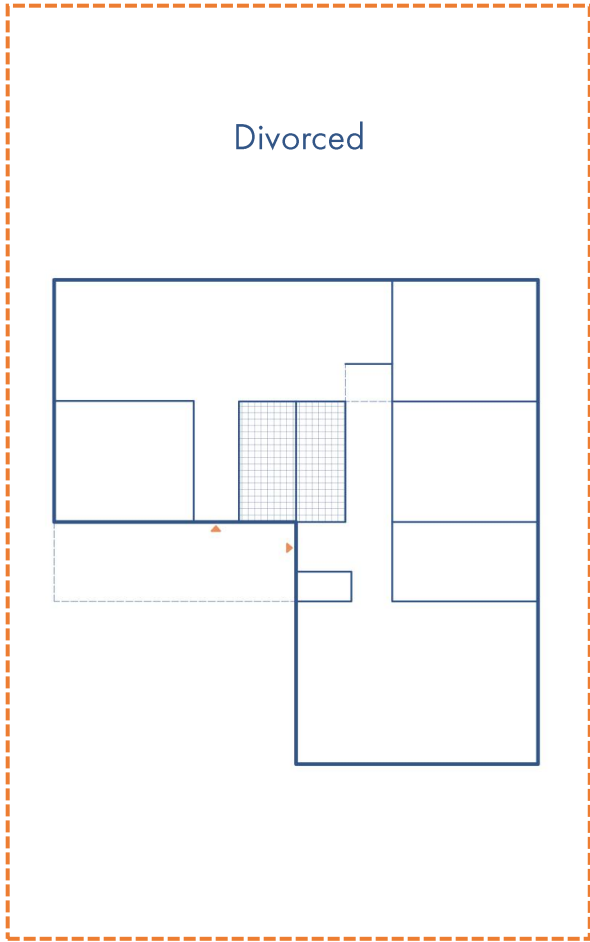
Studio



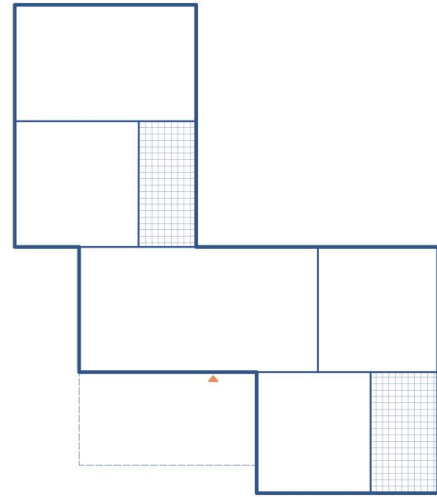
Co-Living 1



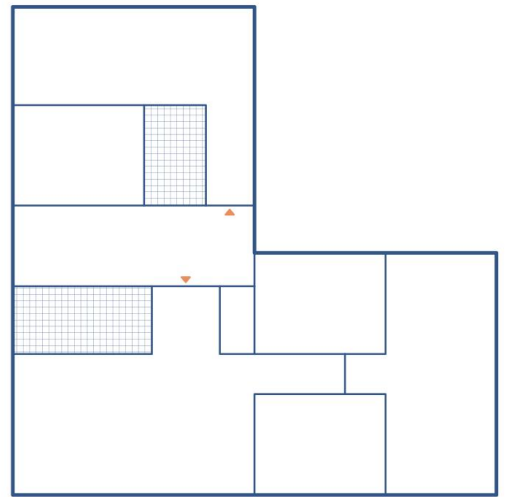
Divorced

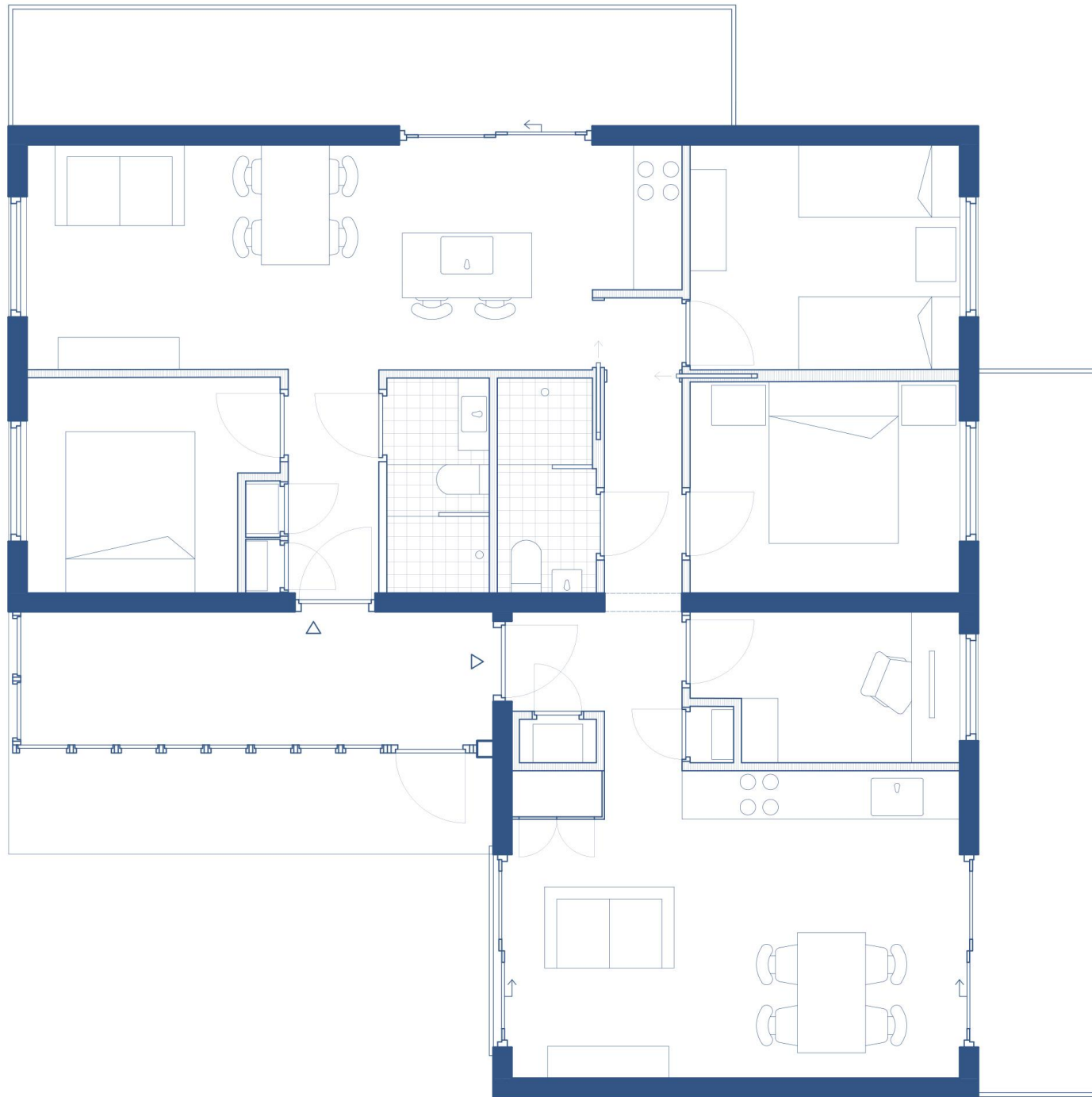


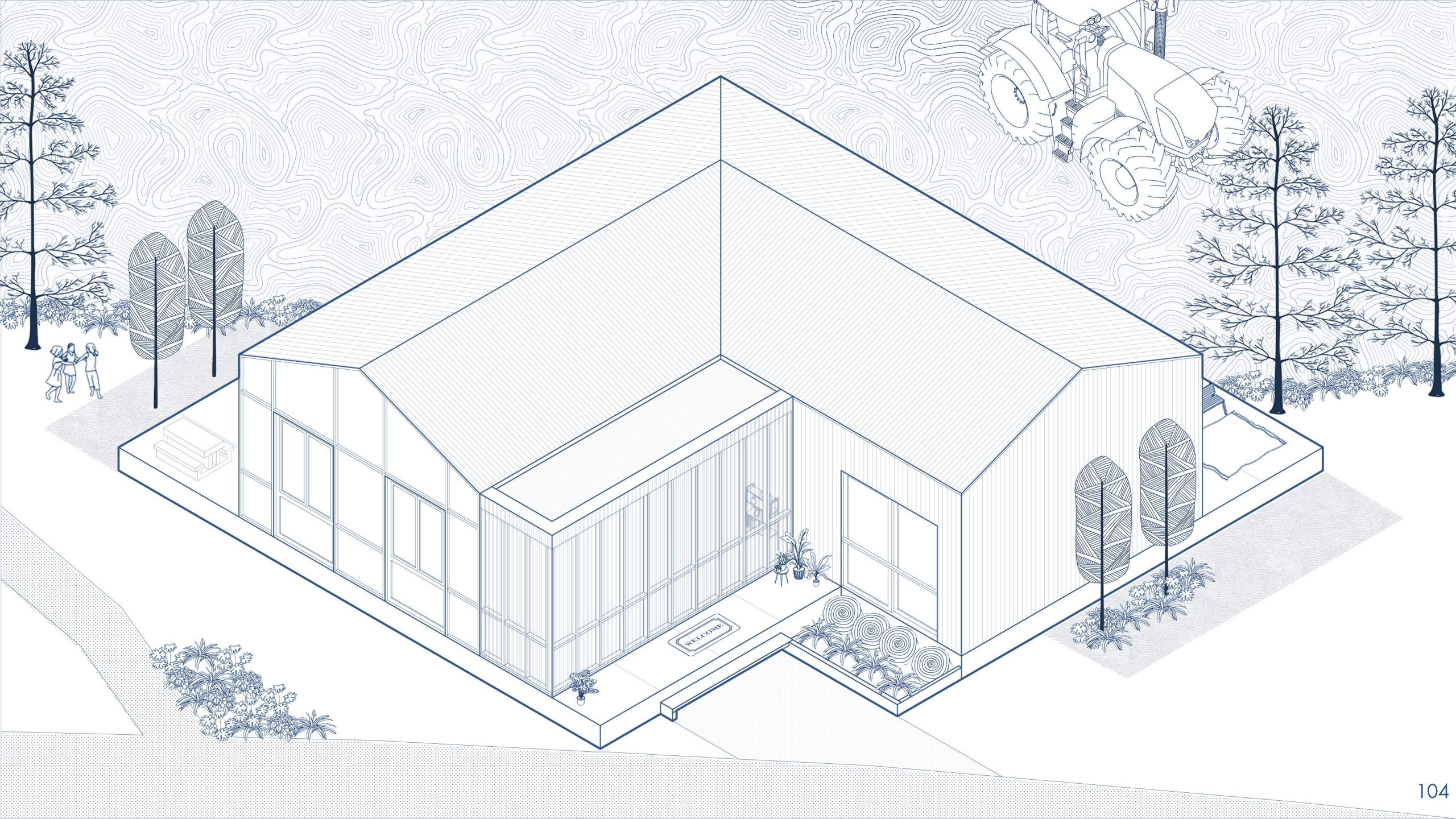
Co-Living 2



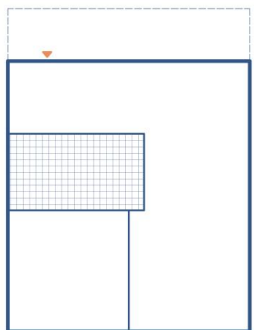
Multi-Generational



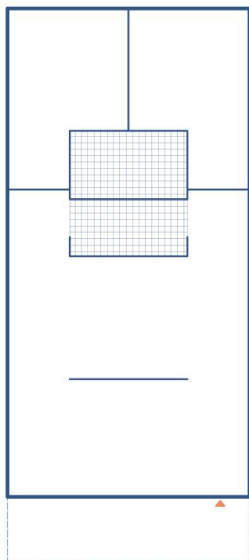




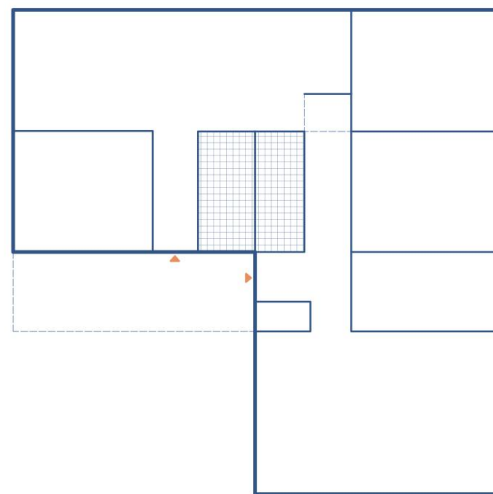
Studio



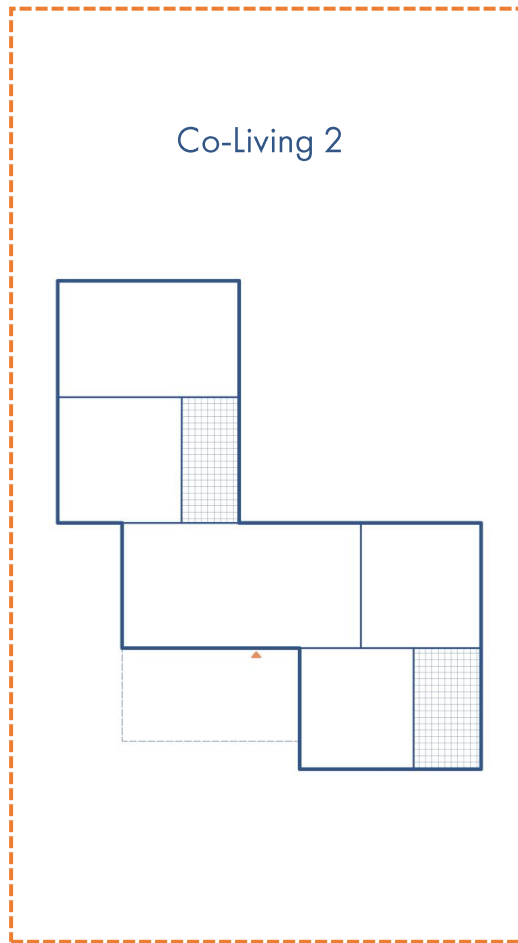
Co-Living 1



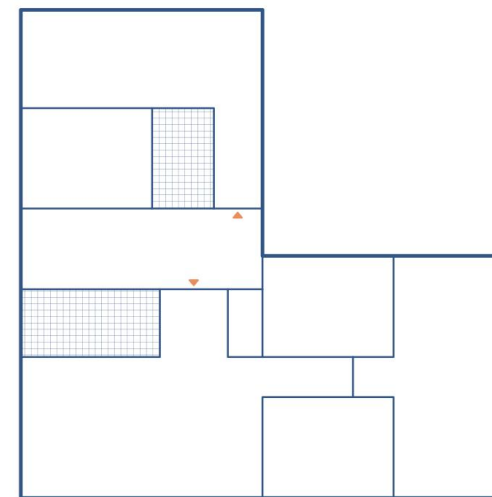
Divorced

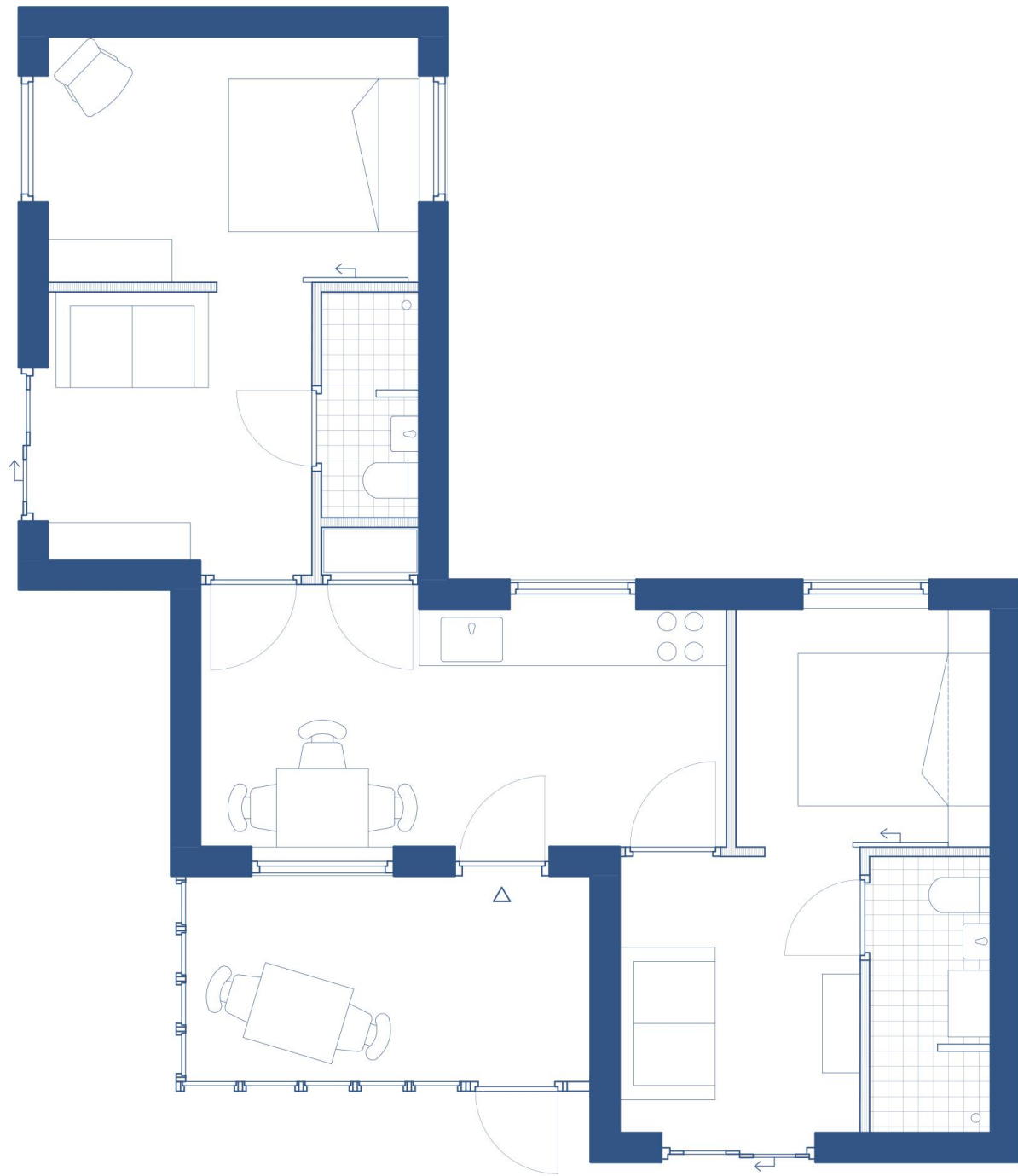


Co-Living 2



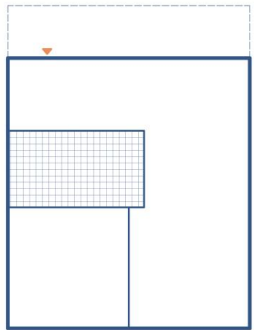
Multi-Generational



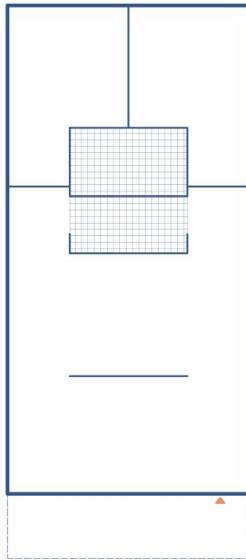




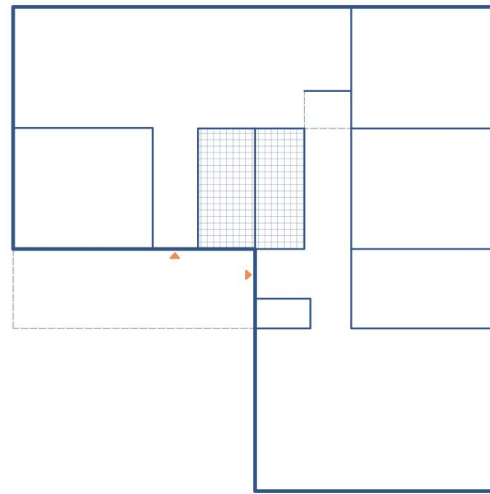
Studio



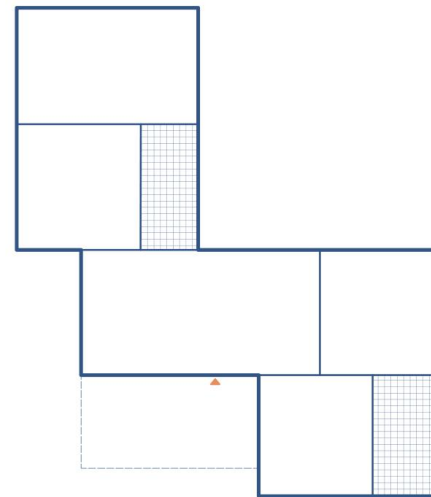
Co-Living 1



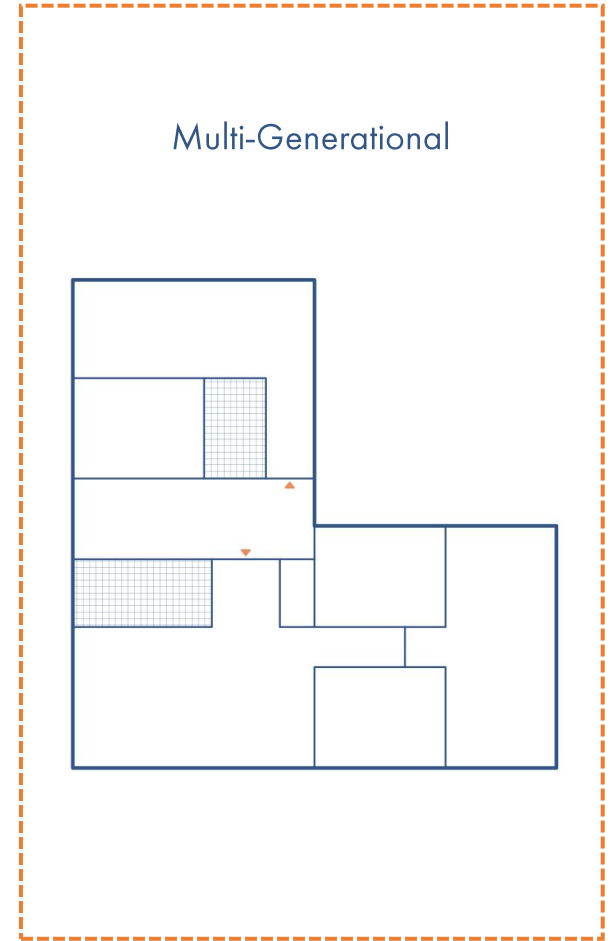
Divorced



Co-Living 2

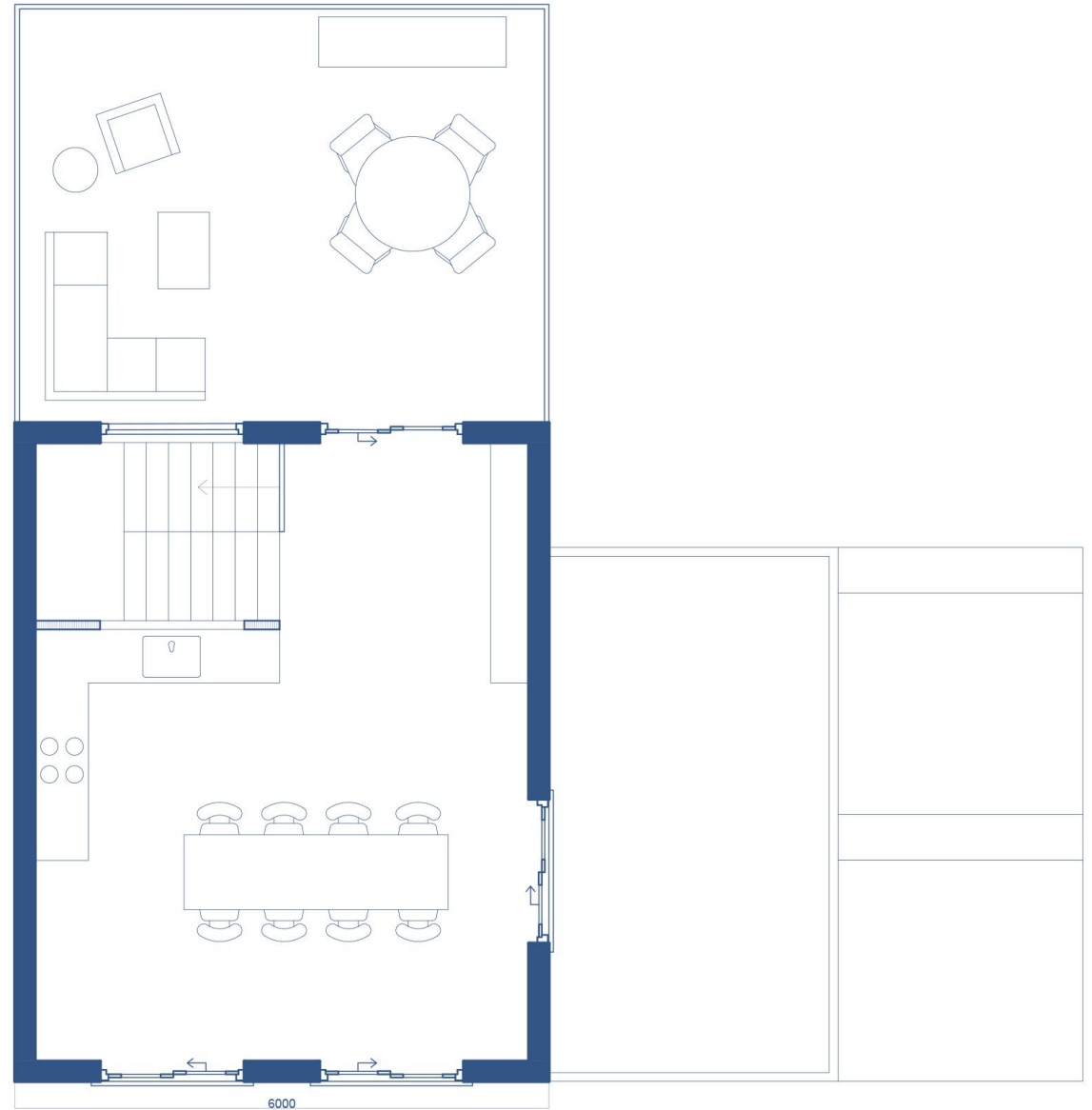


Multi-Generational





Ground Floor



6000
First Floor



Design:
Masterplan





