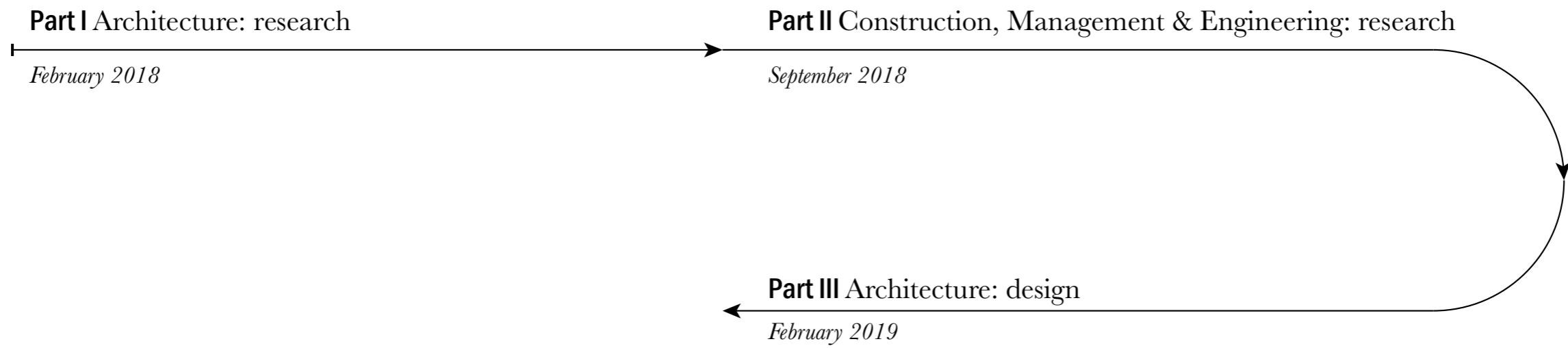


the gallery flat (or fallen tower)

P5 presentation
25th of June, 2019
Ditte Gerding



A design for a transformation of an office building into dwellings taking into account circularity, demonstrating how circularity offers freedom for (non-traditional) households.



timeline of graduation process.

RESEARCH

Design for
Disassembly -
a way to minimize
building waste
research
part I

Talking circularity
- the influence
of actors on the
building process
research
part II

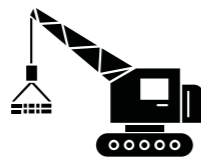
The gallery flat (or
fallen tower)
design
part III

research part I as part of the master Architecture,
research part II as part of the master Construction,
Management & Engineering, and design (part III)





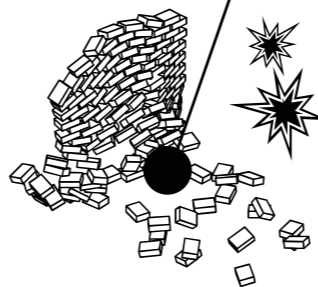
building at the end of its life



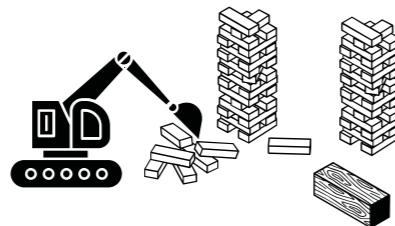
dismantling



demolish



extract valuable materials



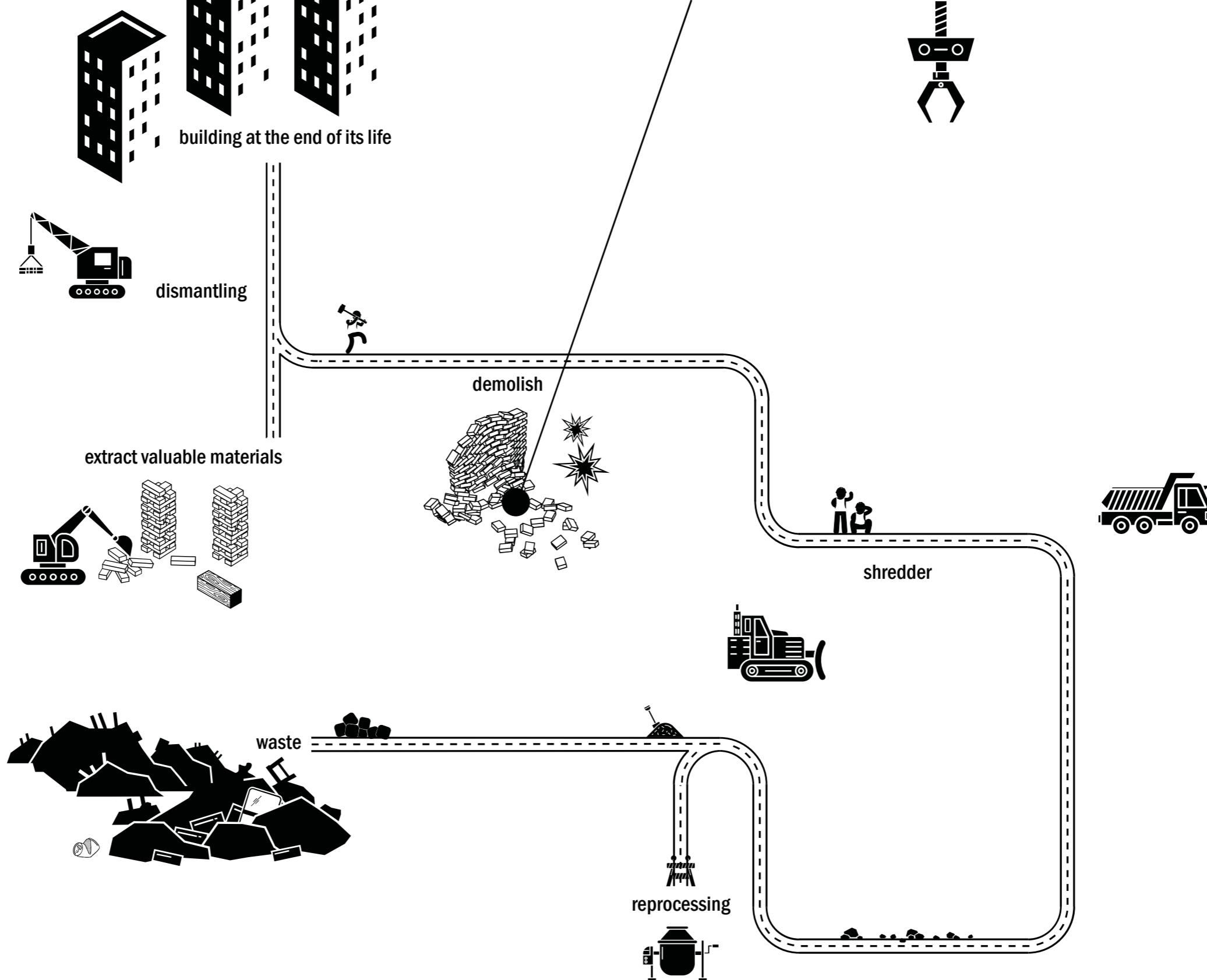
shredder

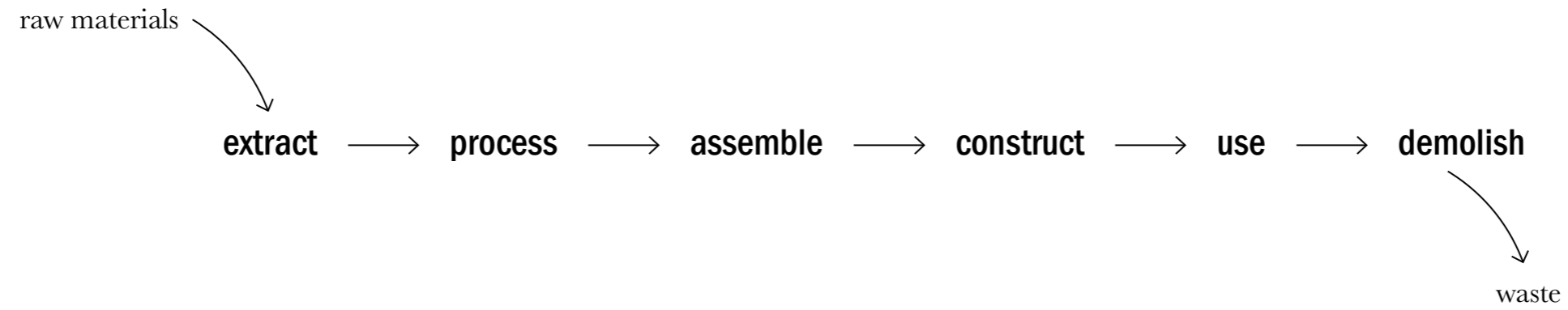


waste

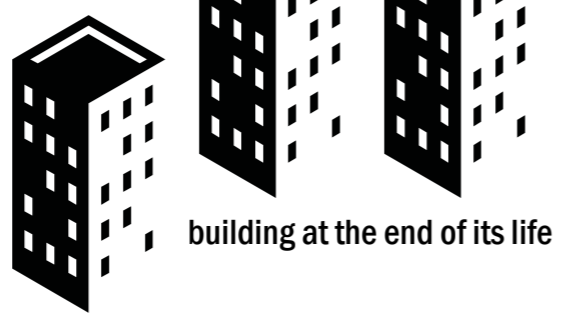


reprocessing

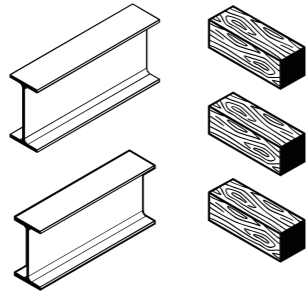




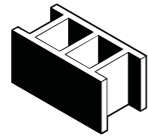
Linear building process from the perspective of a building component, based on Durmisevic (2010) and Crowther (1999).



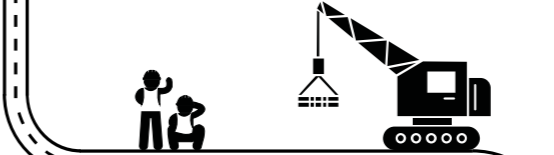
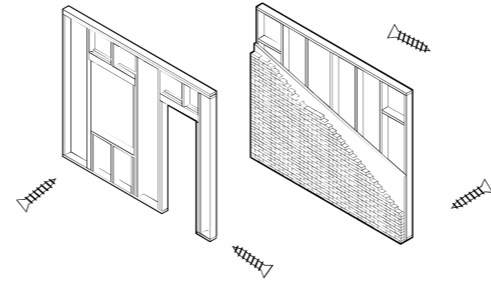
building at the end of its life



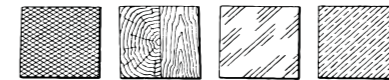
building material



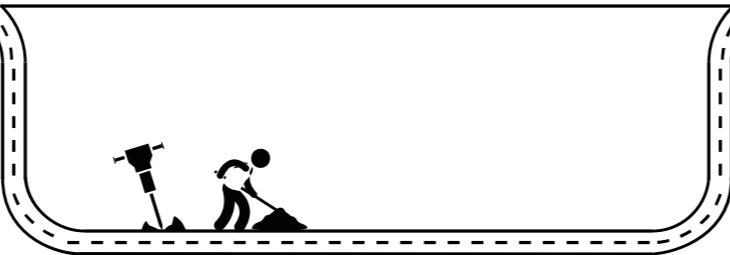
easy and quick disassembly



sorting



reuse

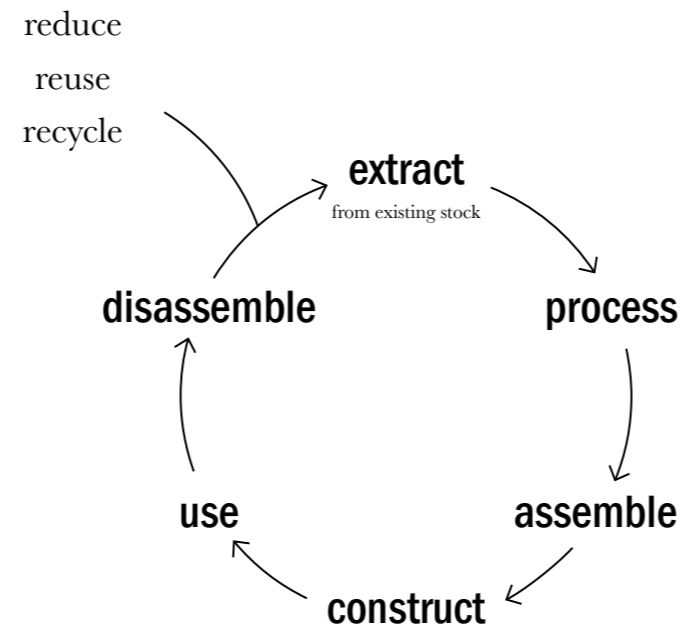
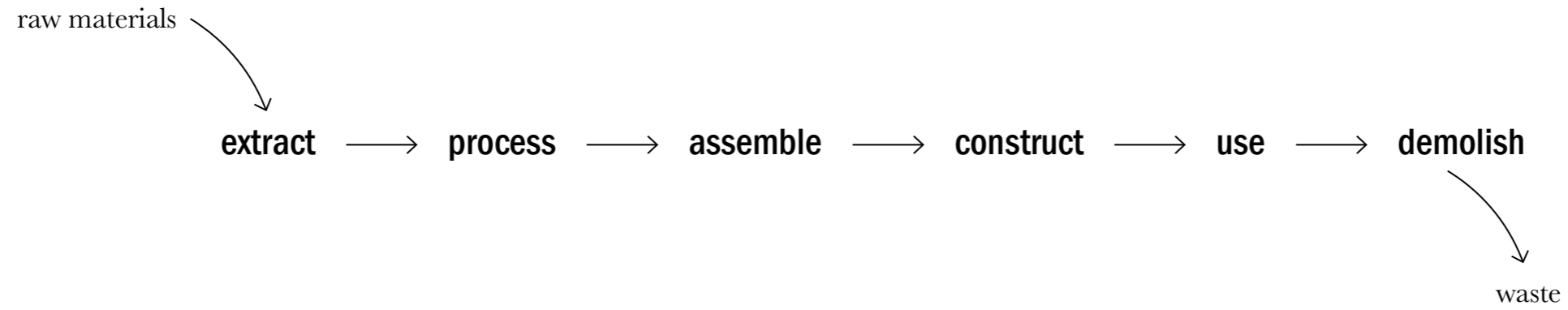


recycle



decompose





Linear building process (top) and circular building process (bottom) from the perspective of a building component, based on Durmisevic (2010) and Crowther (1999).



Toasters by Agency of Design, from left to right: the Optimist, Pragmatist, and Realist.

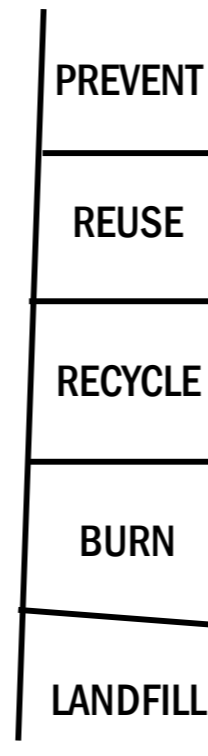


case studies

from left to right: ABT office, Delft, BiermanHenket, 2001; The Green House, Utrecht, cepezed, 2018; Townhall, Brummen, RAU, 2013; EDGE Olympic, Amsterdam, de Architecten Cie, 2018.



interviews.



implementing reducing, reusing and recycling.



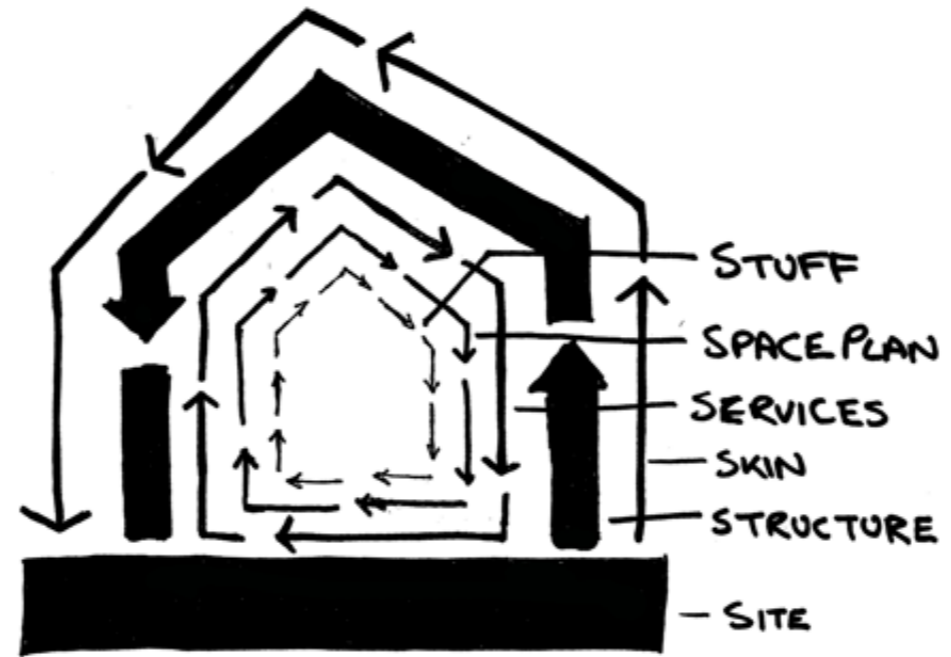
The building in 1974, source:Beeldbank Amsterdam



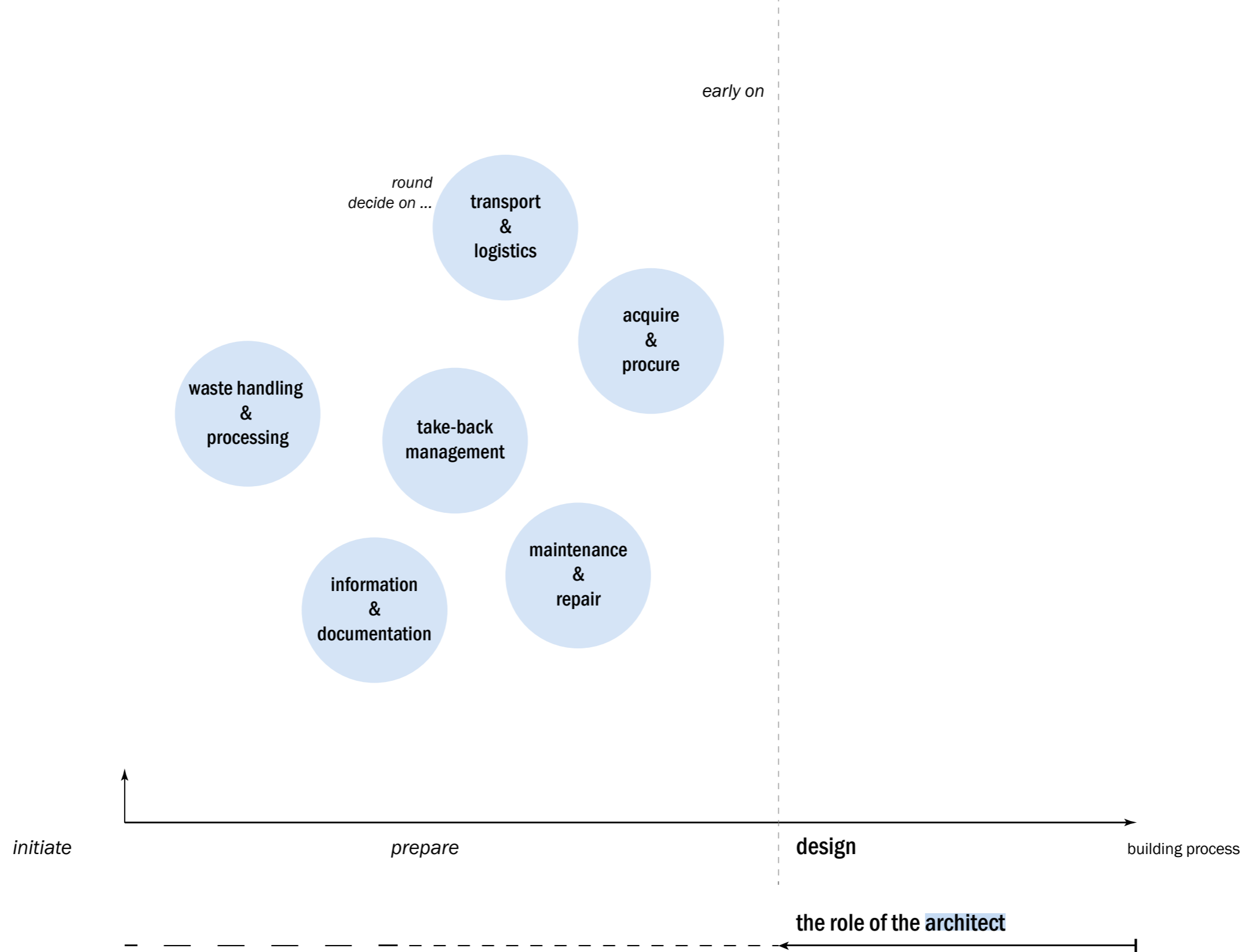
The building in 1974, source:Beeldbank Amsterdam



The building in 1974, source:Beeldbank Amsterdam



Layers (Brand, 1994)



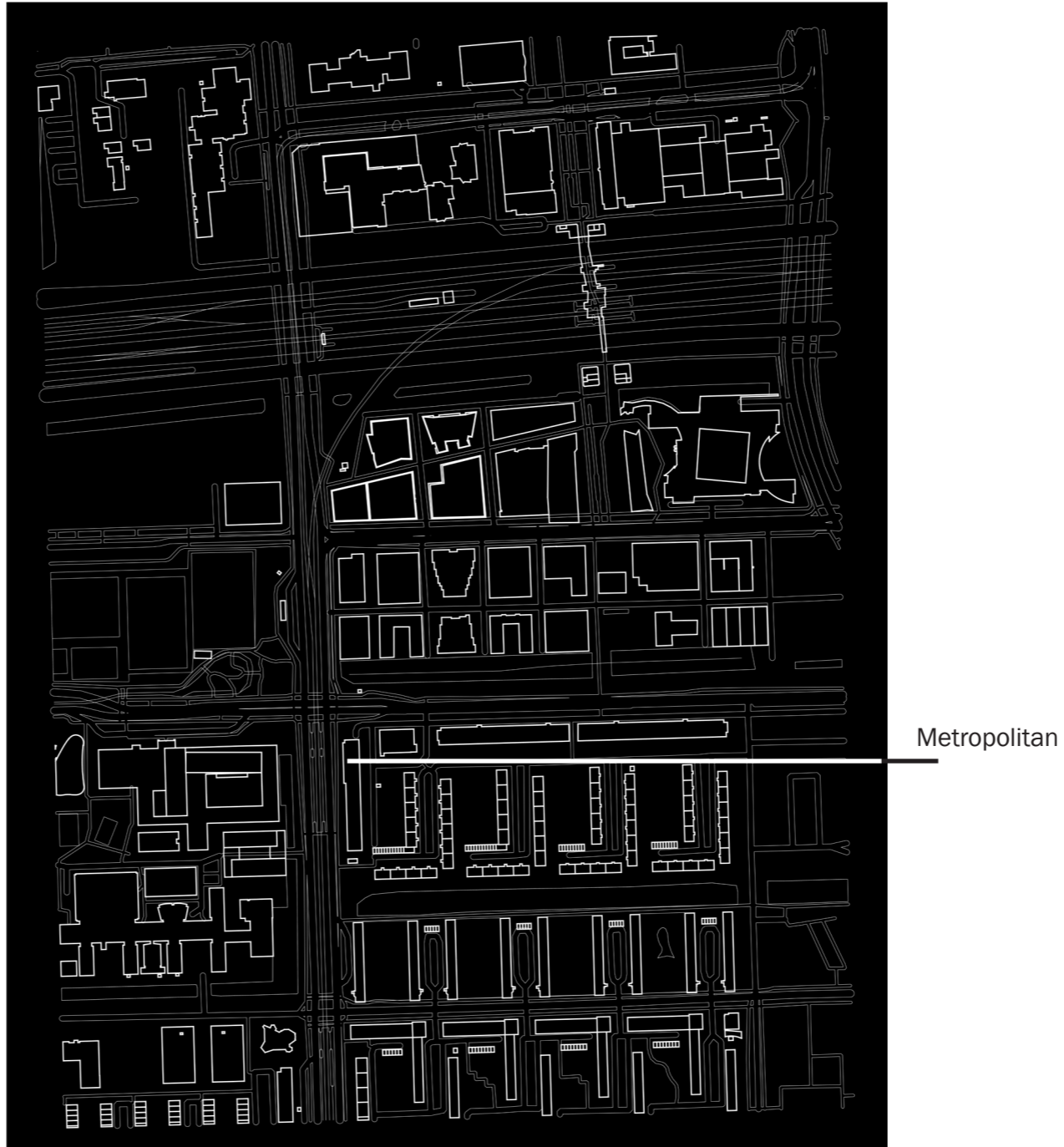
DESIGN



Amsterdam.



Buitenveldert.

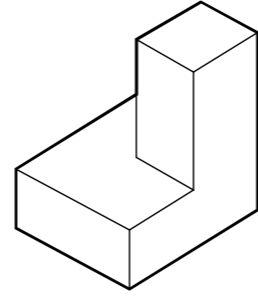


top view of Amsterdam Zuid

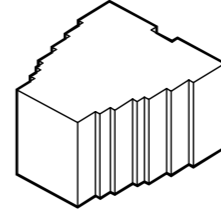
Zuidas



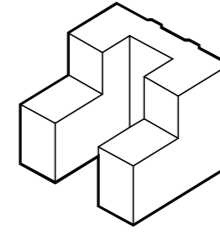
tower



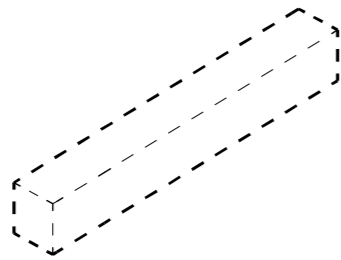
tower on a base



terraced block

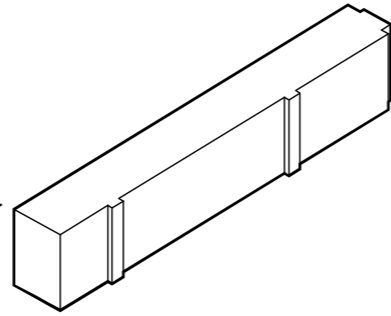


perforated block

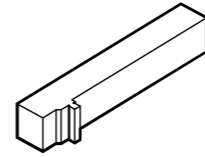


Metropolitan

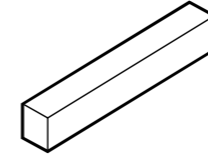
Buitenveldert



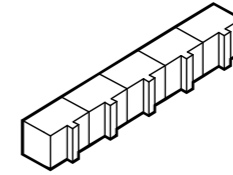
gallery flat



gallery flat



gallery flat

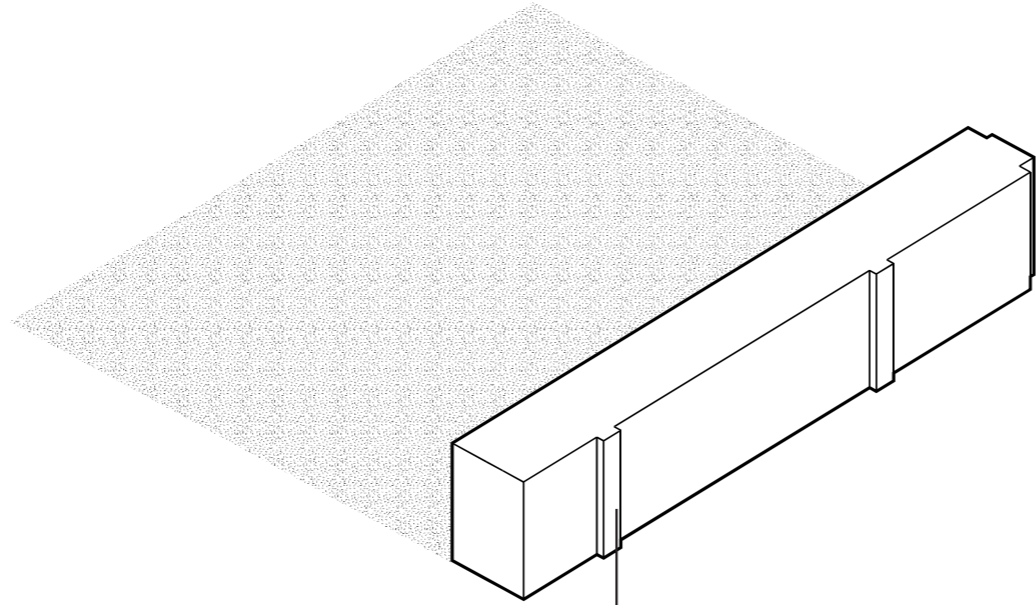


porch houses

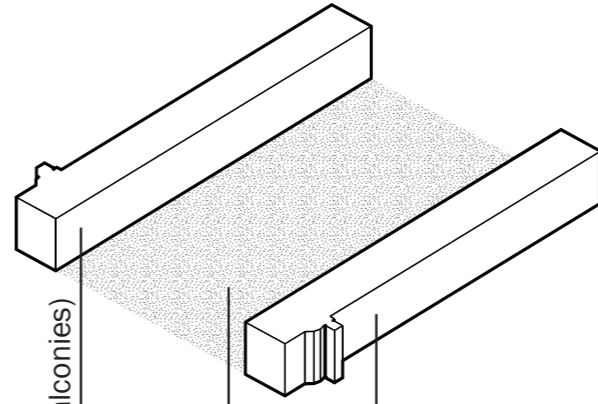
Typologies in Zuidas and Buitenveldert, made by author.



view from Lex van Deldenbrug, on the left Buitenveldert and
on the right the Zuidas.



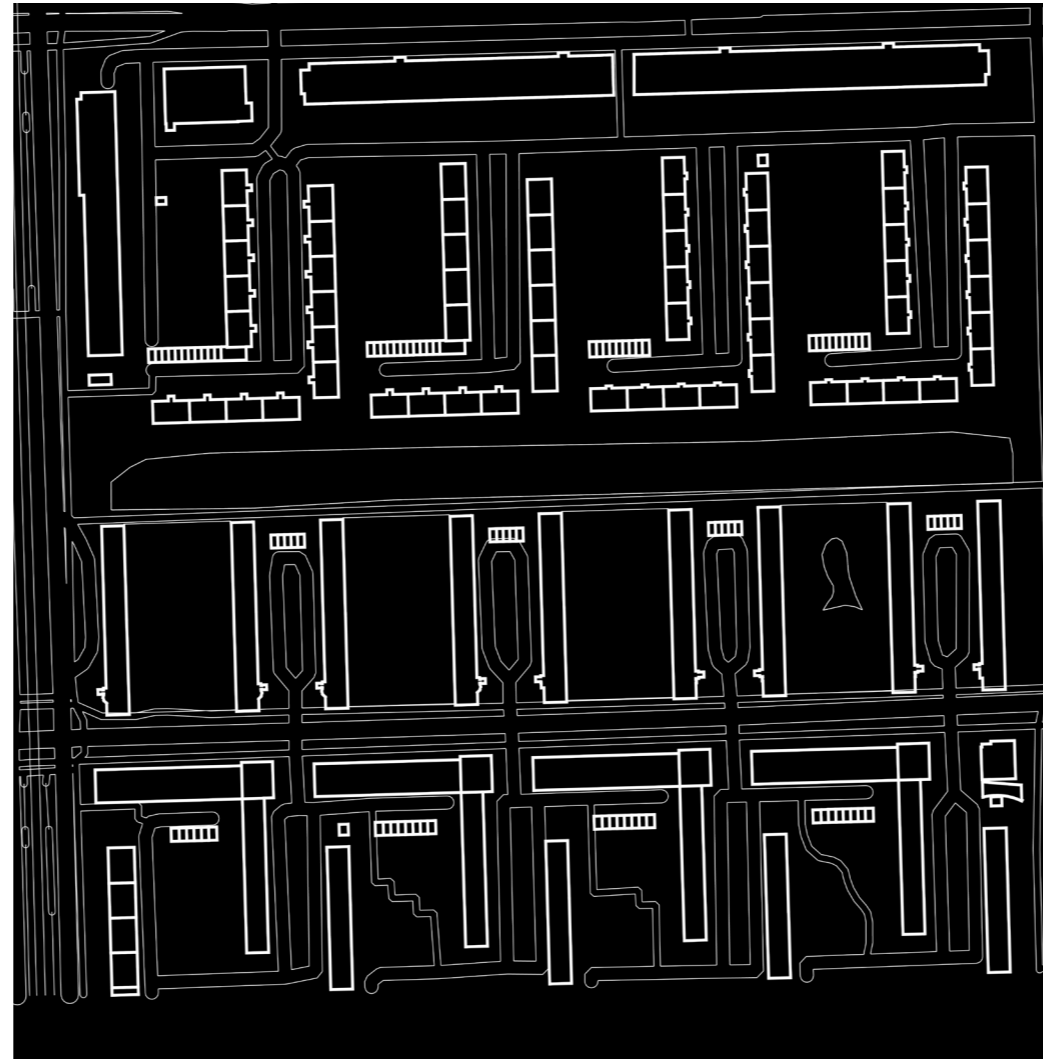
gallery, vertical routing



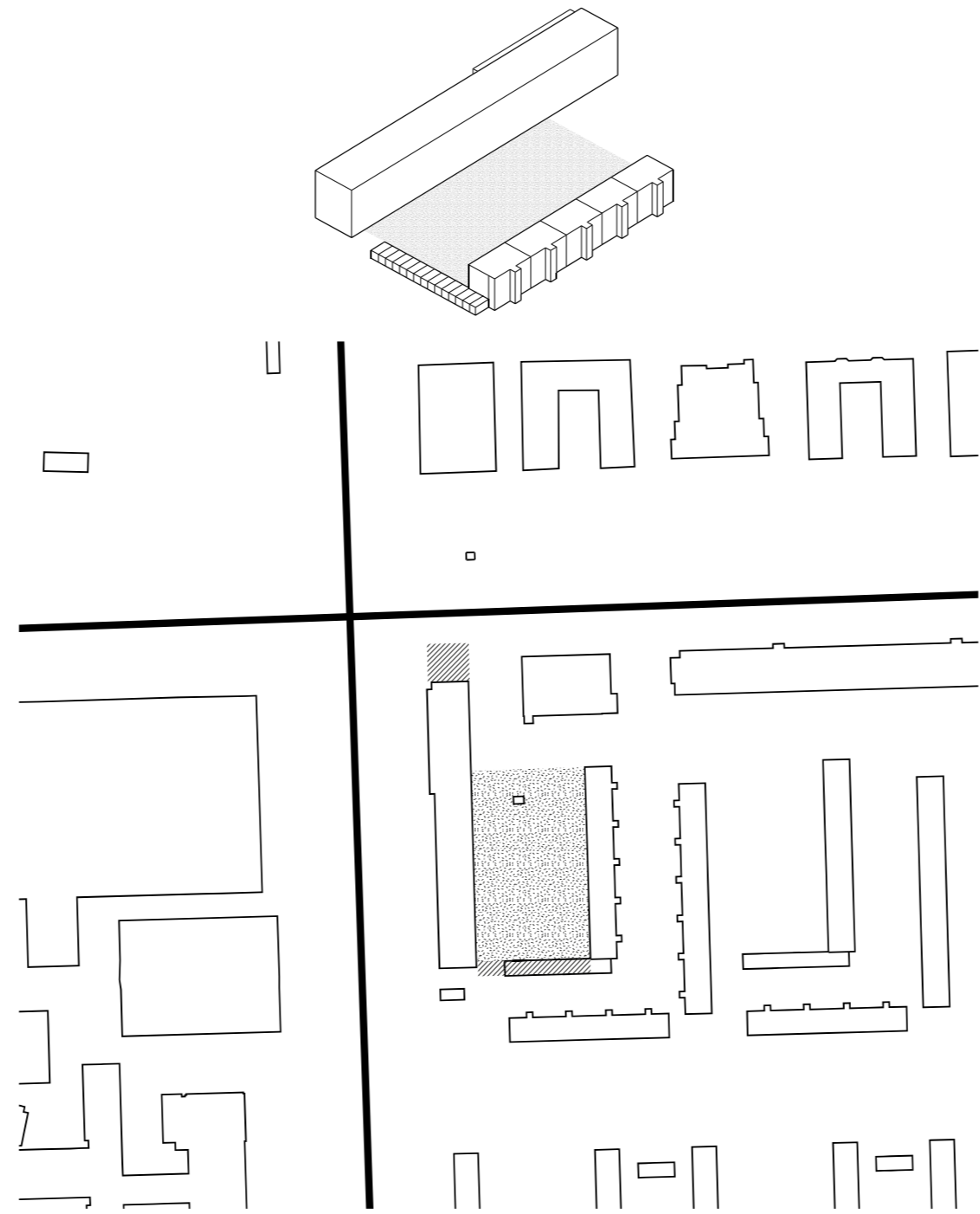
private outdoor spaces (balconies)

courtyard

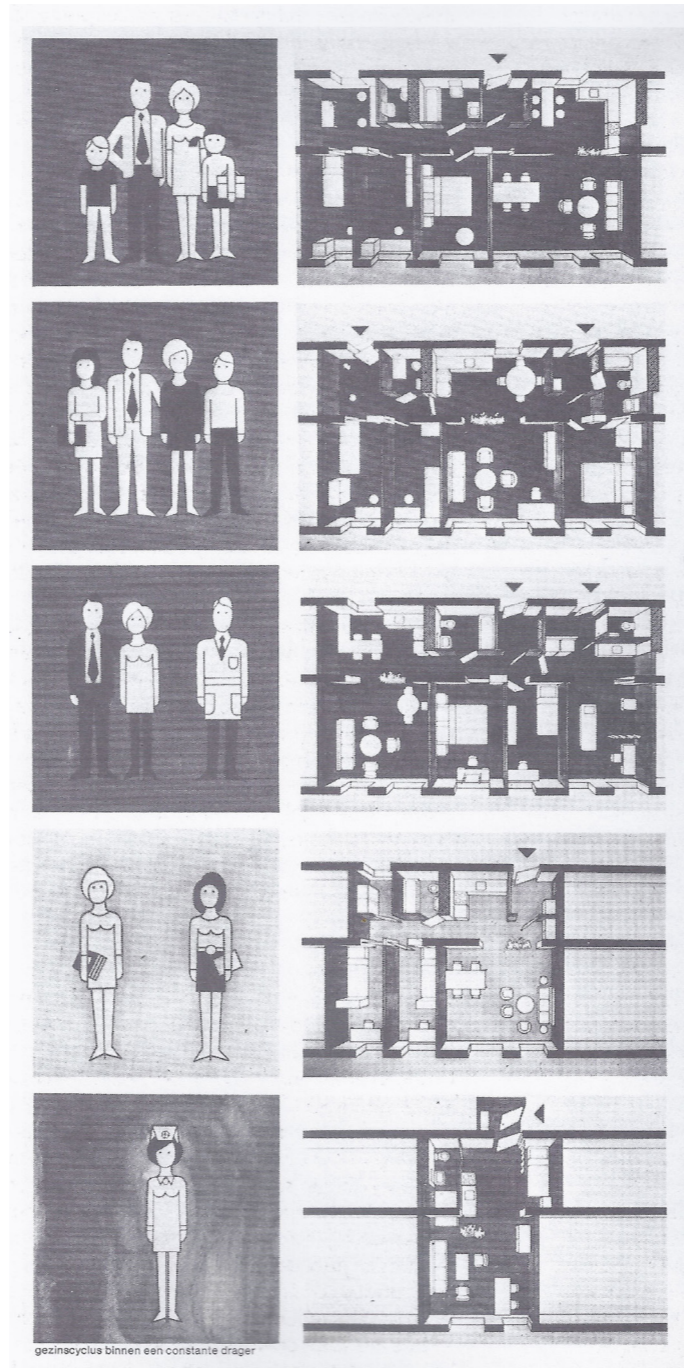
gallery



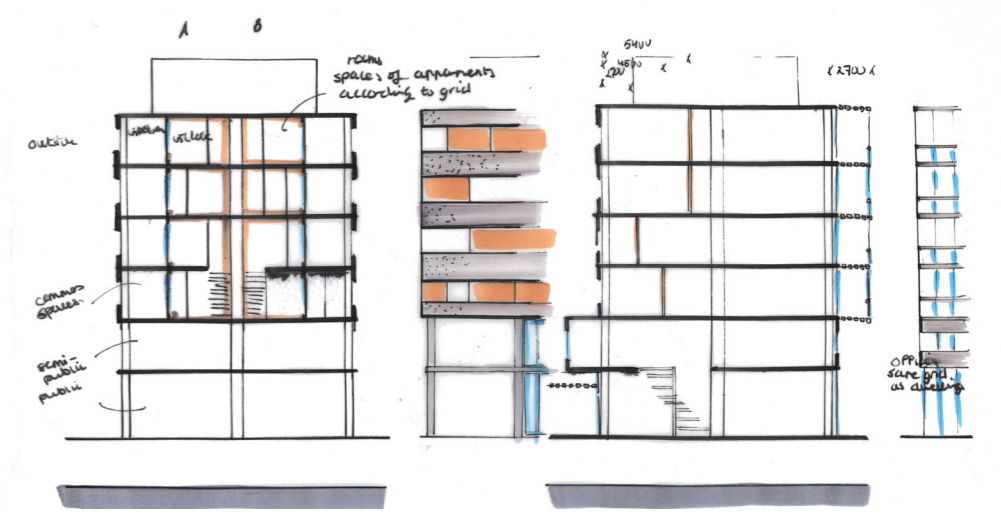
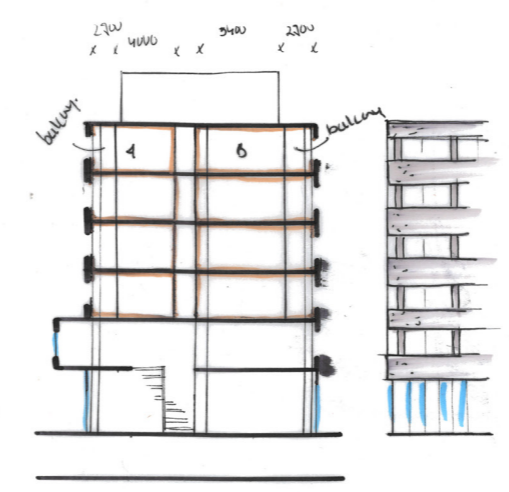
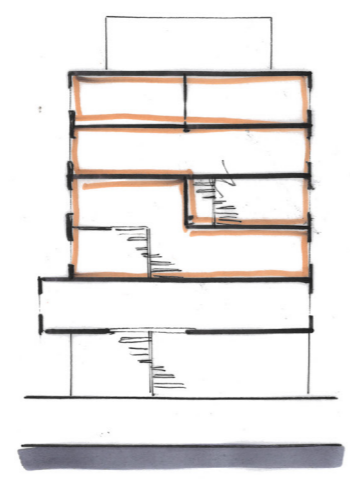
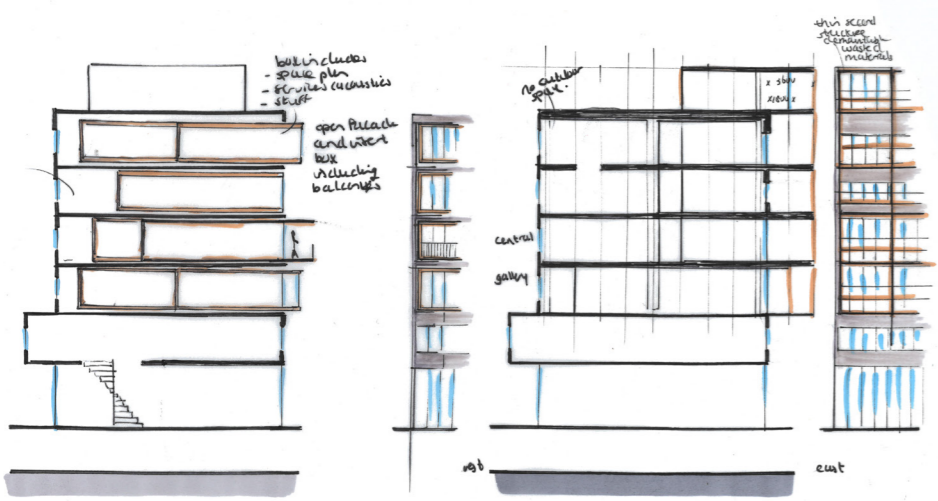
urban fabric in Buitenveldert



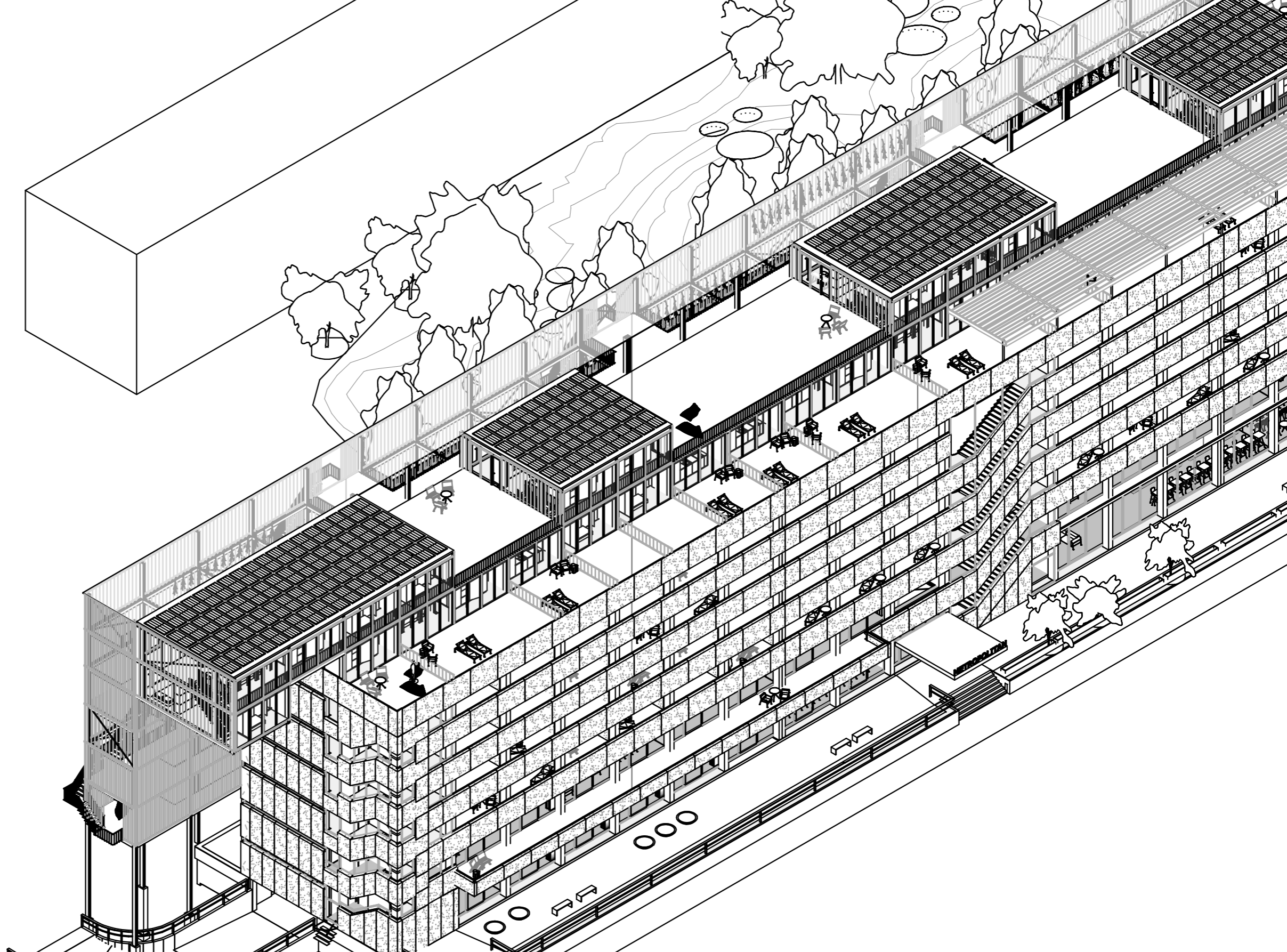
Urban site restructured.

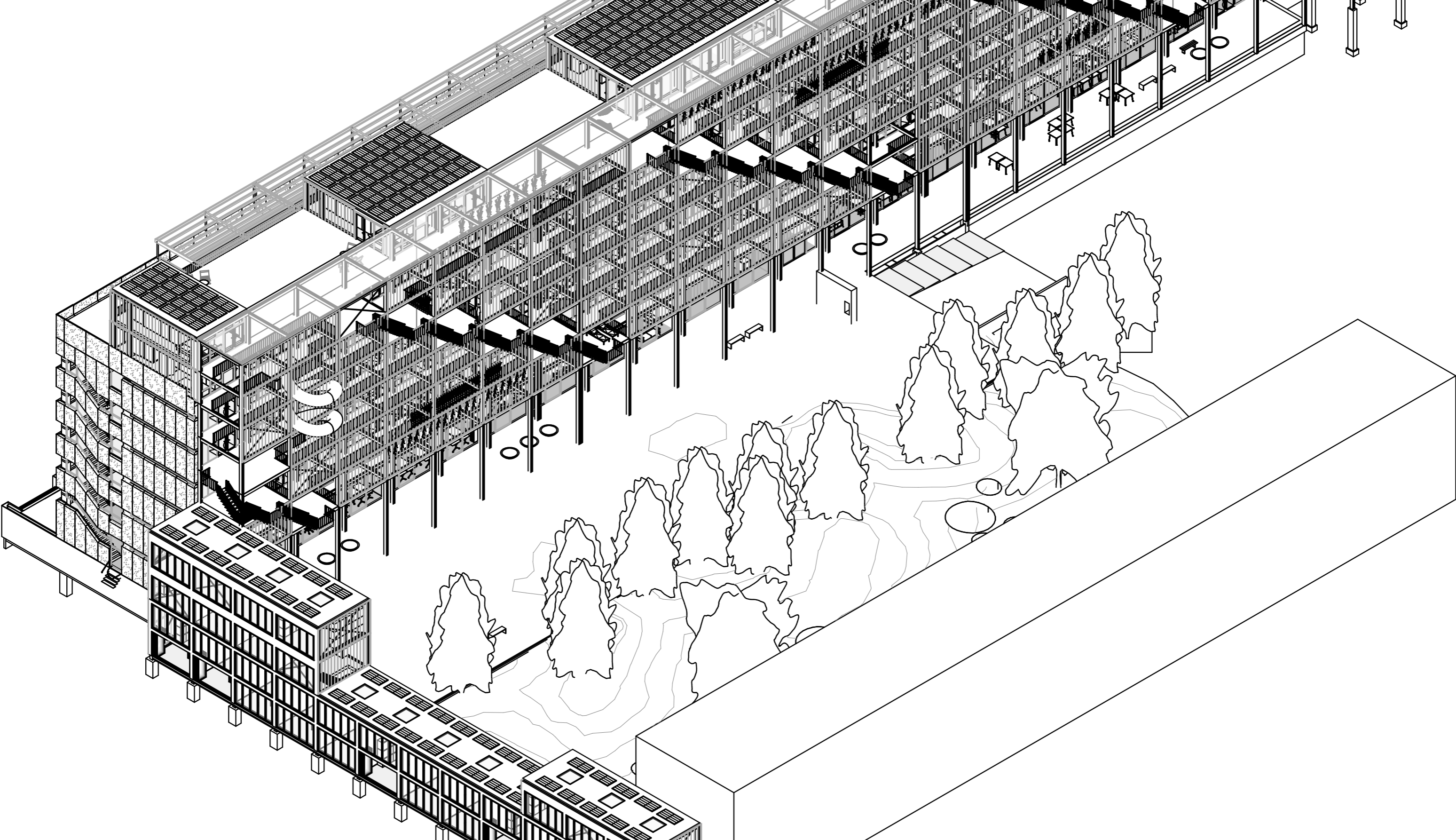


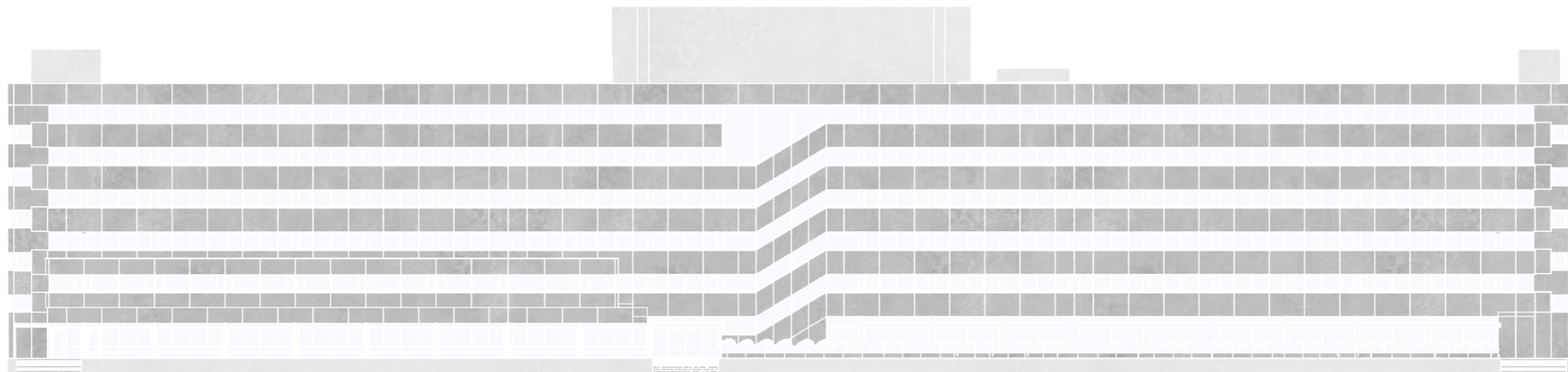
The household, illustration for an article by the SAR
in the journal Plan. (Plan, nr. 8 (1980), 45)



sketches



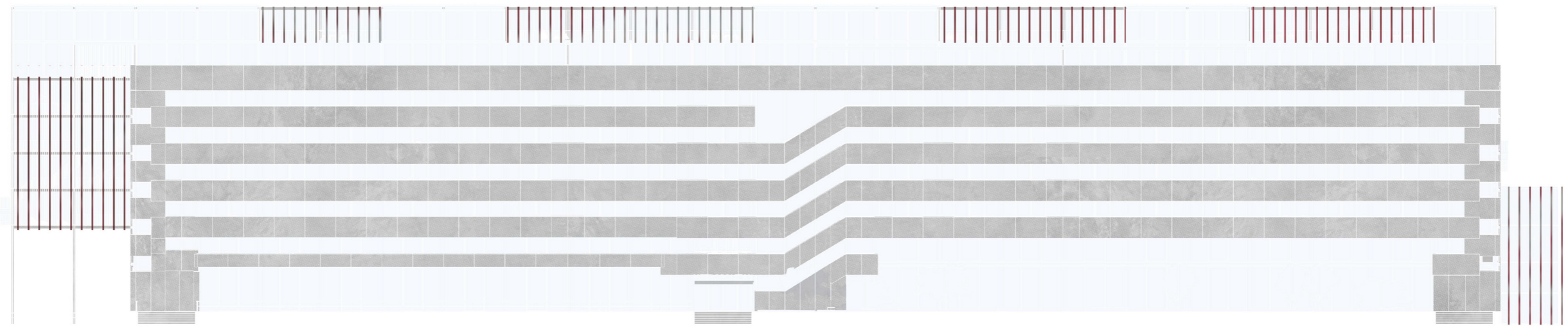




existing west facade

elevation

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west facade

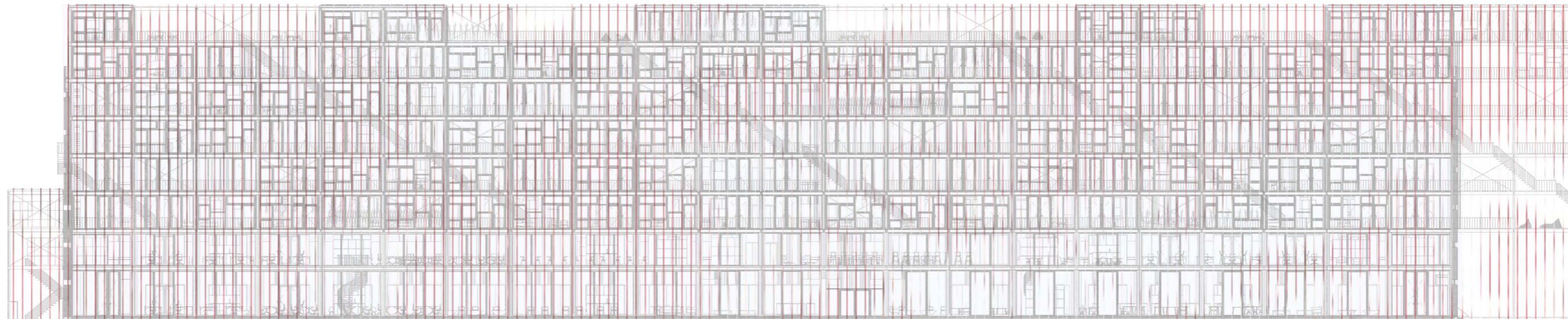
elevation



east facade

elevation

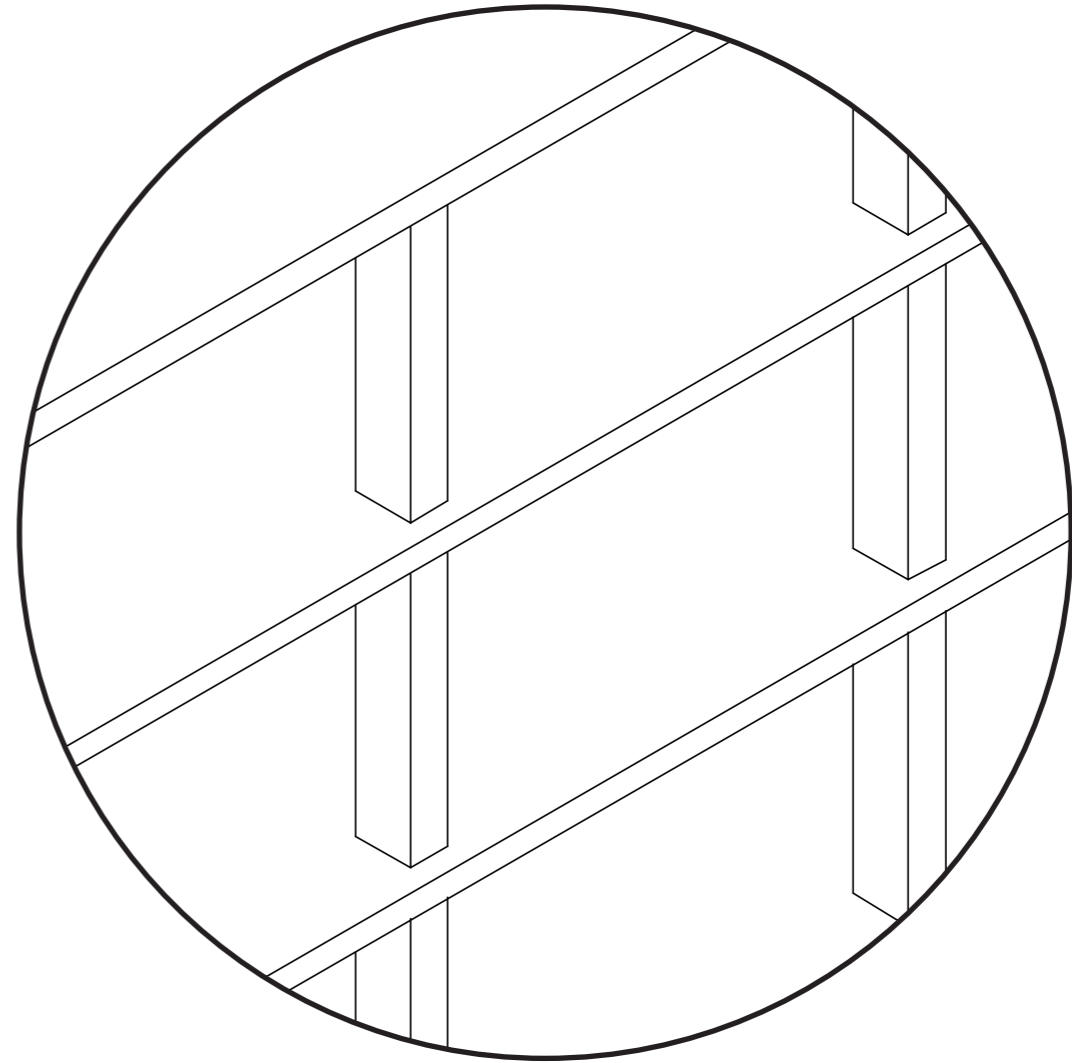
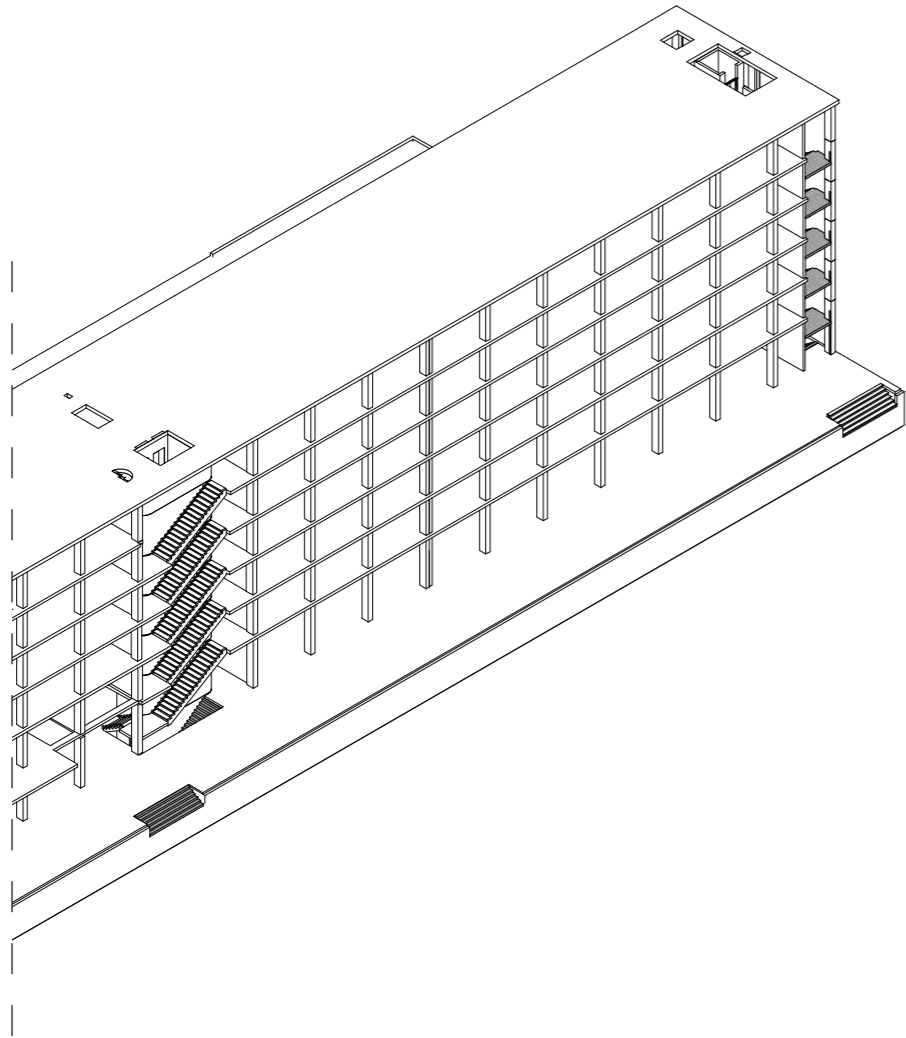
35 / 91



east facade

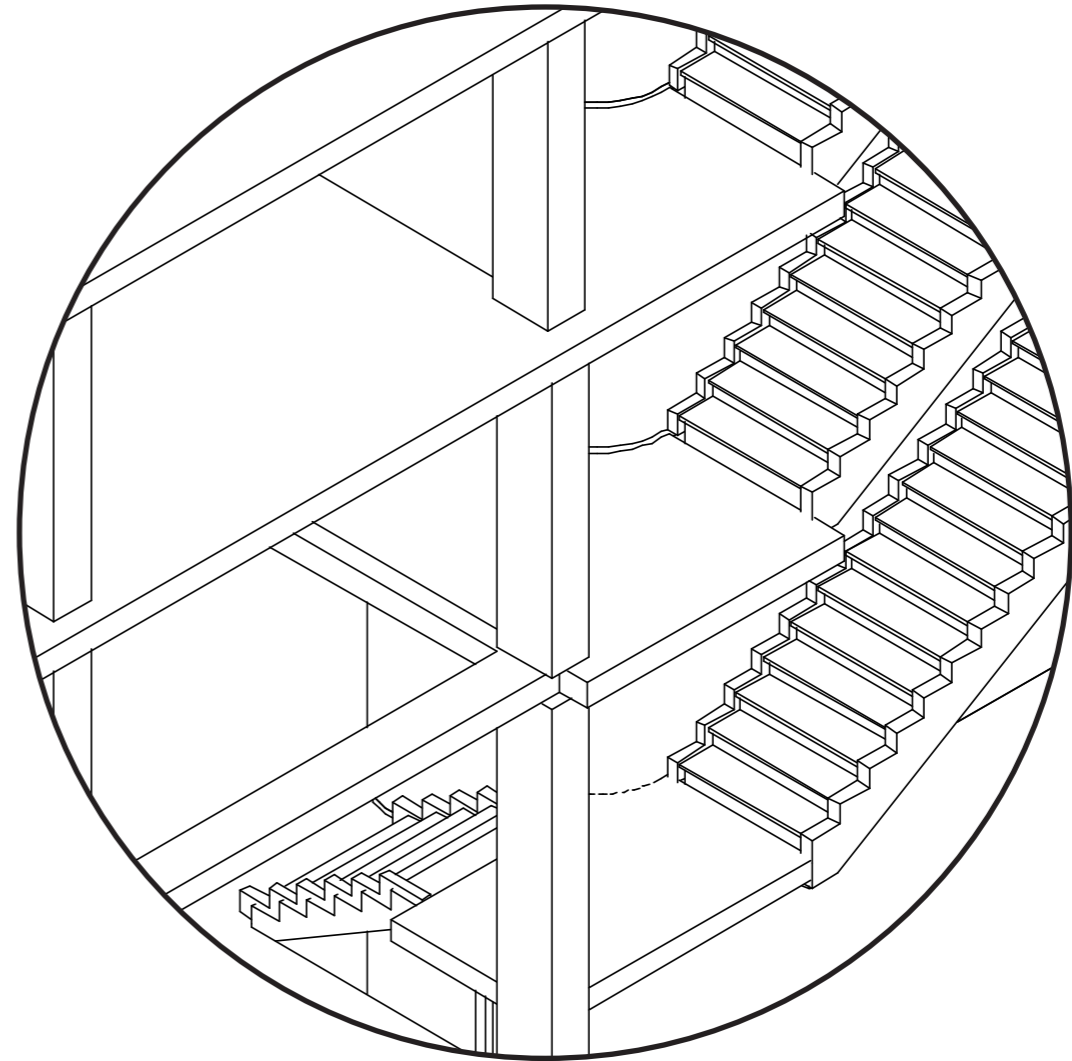
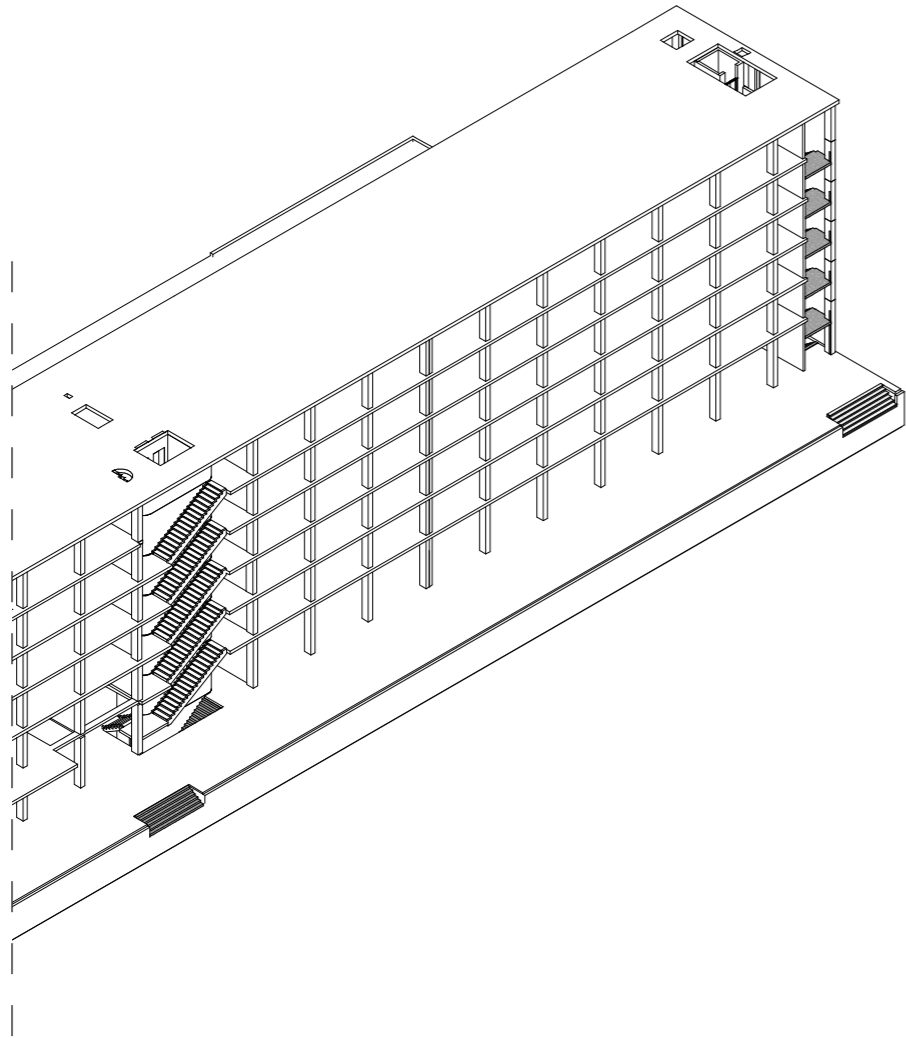
elevation

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reuse floors, columns

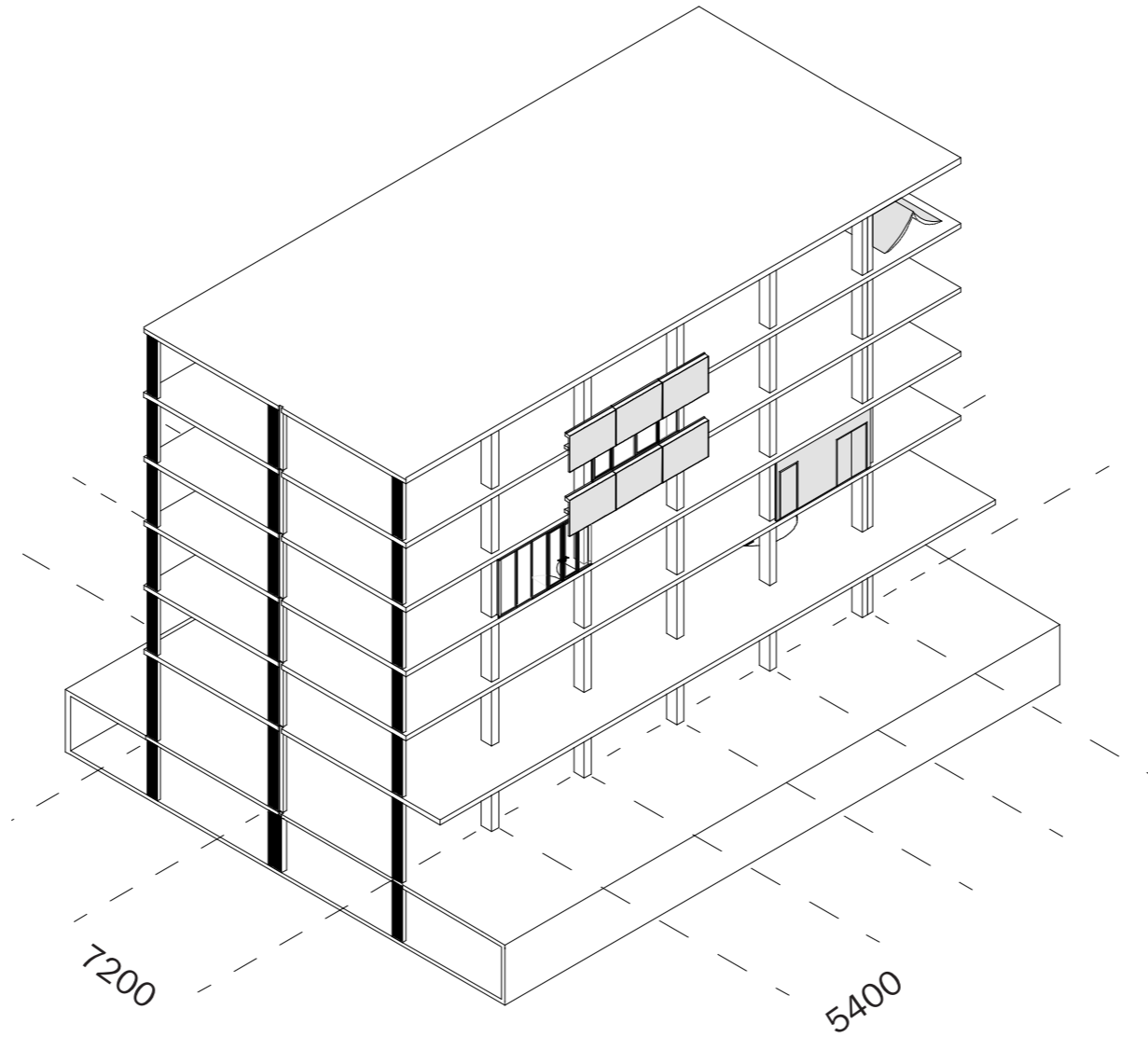
structure



staircases, elevators

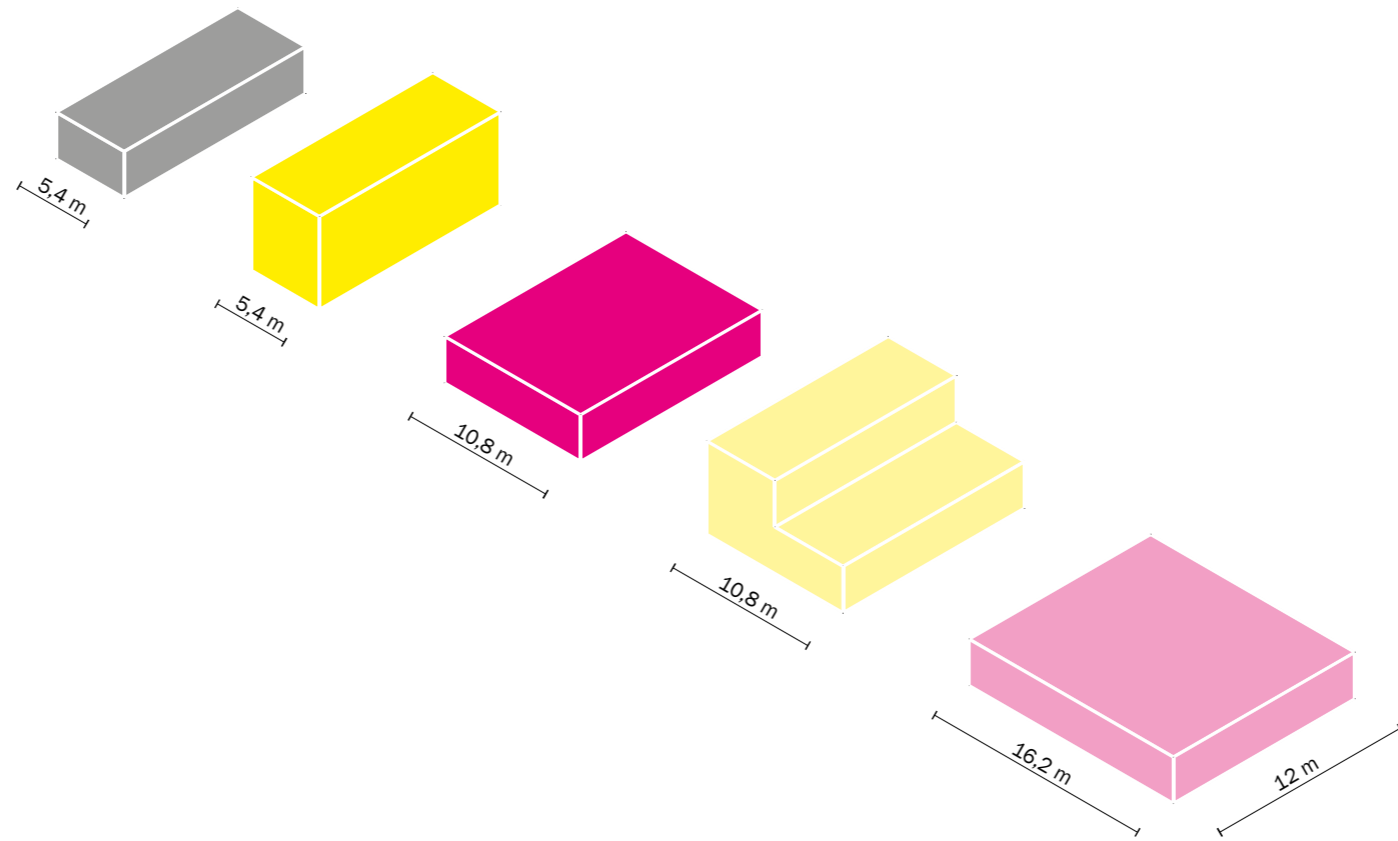
services

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systematization of the building

structure, skin, space plan



different sizes



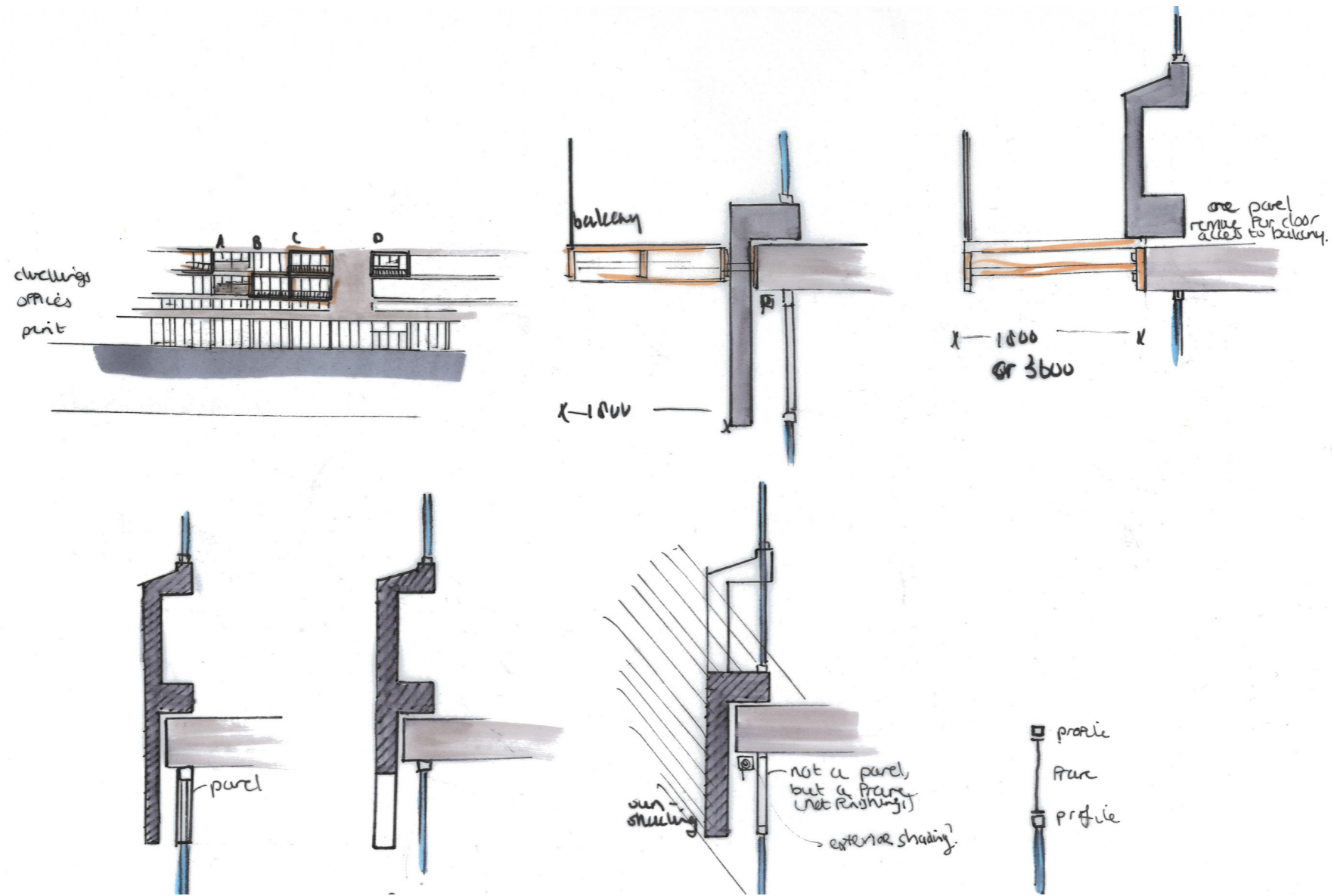
a possible configuration; the renter determines

second, sixth and seventh floor



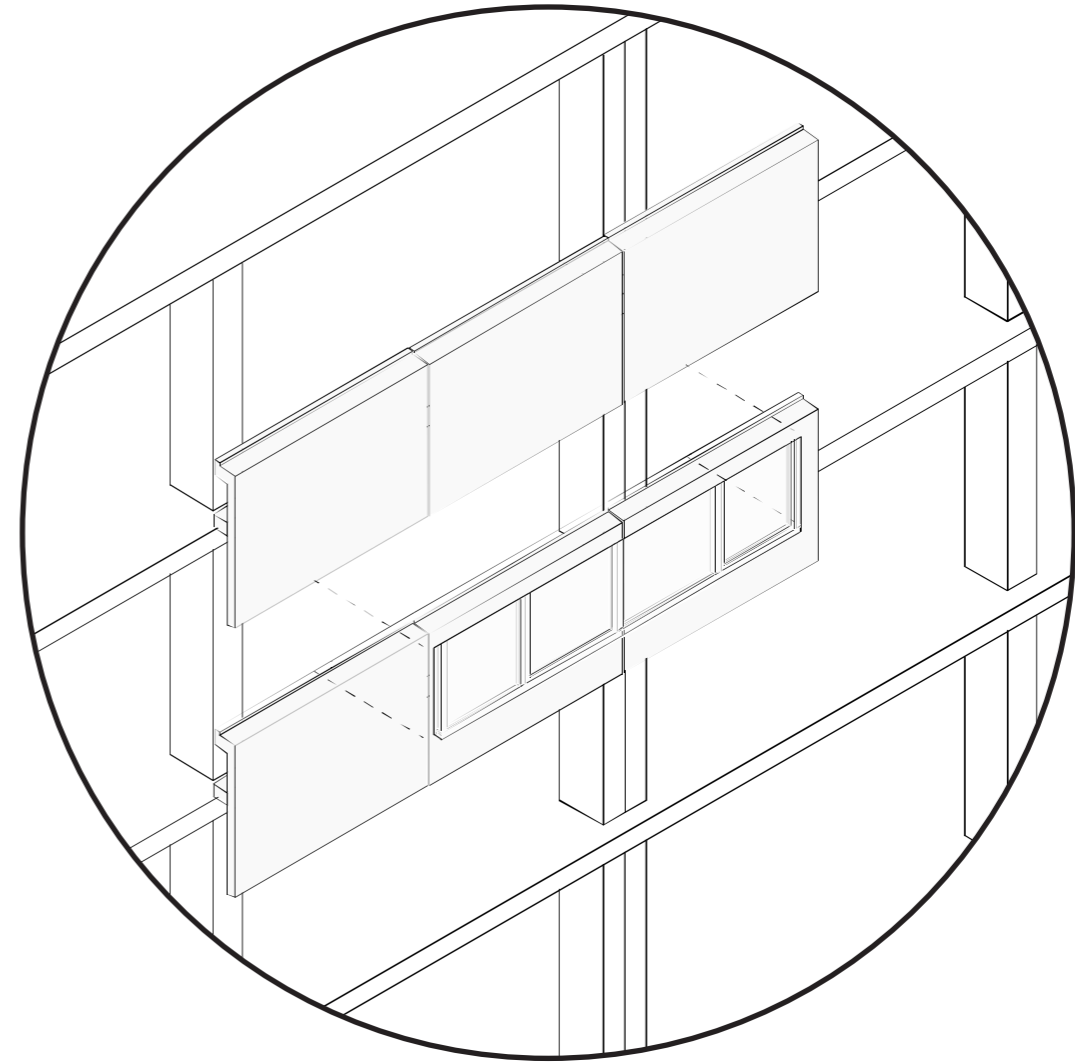
live & work OR live / work

ground floor and first floor



reuse concrete facade panels

skin

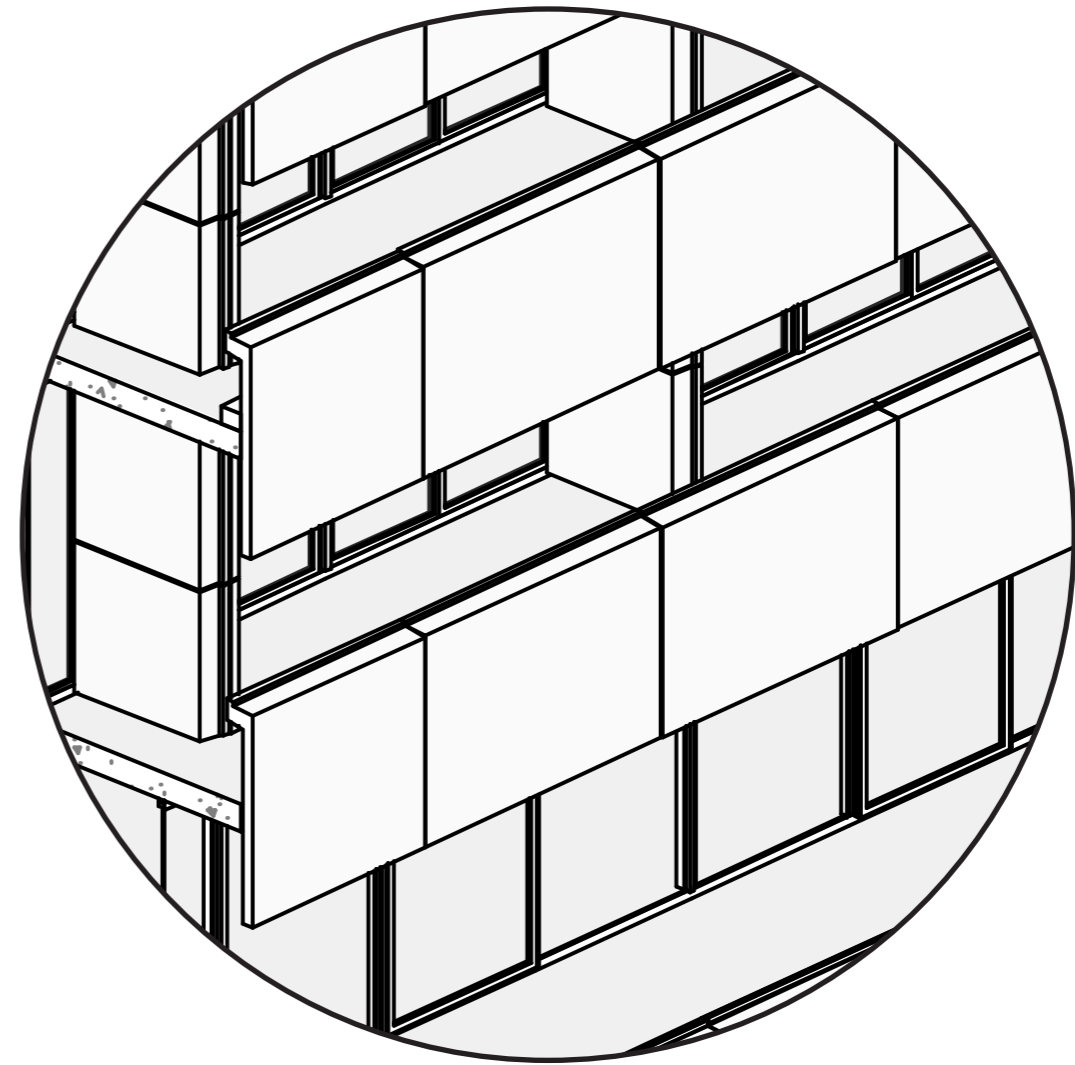
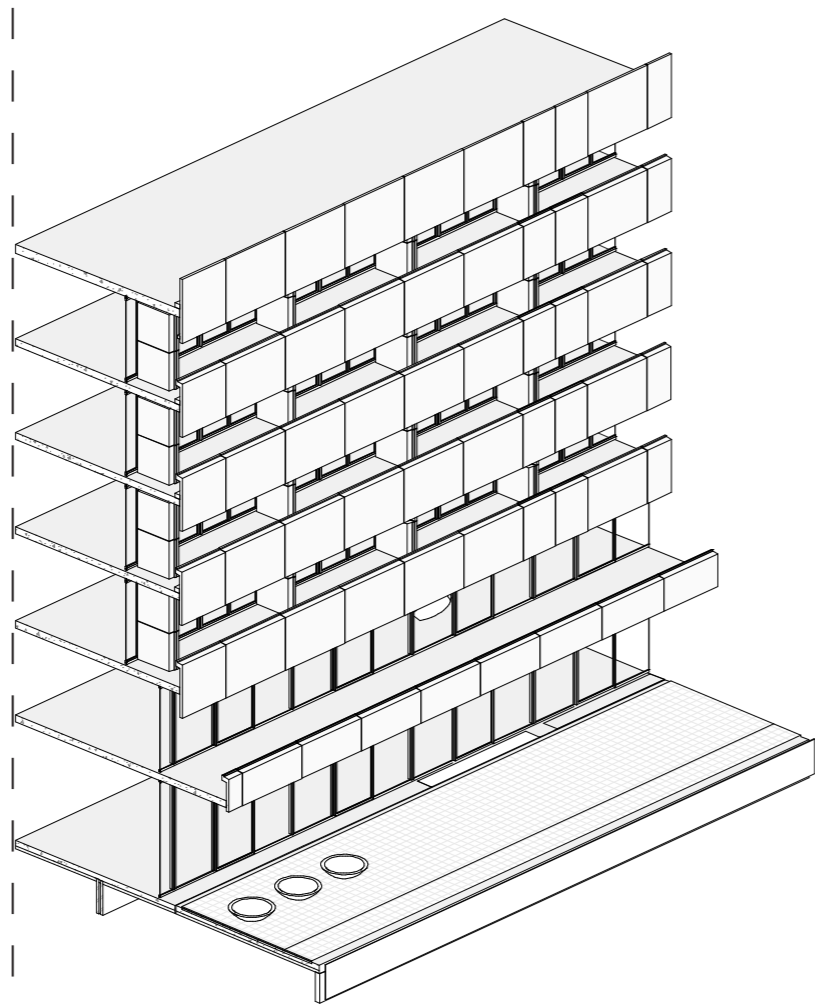


west facade

reuse concrete facade panels

skin

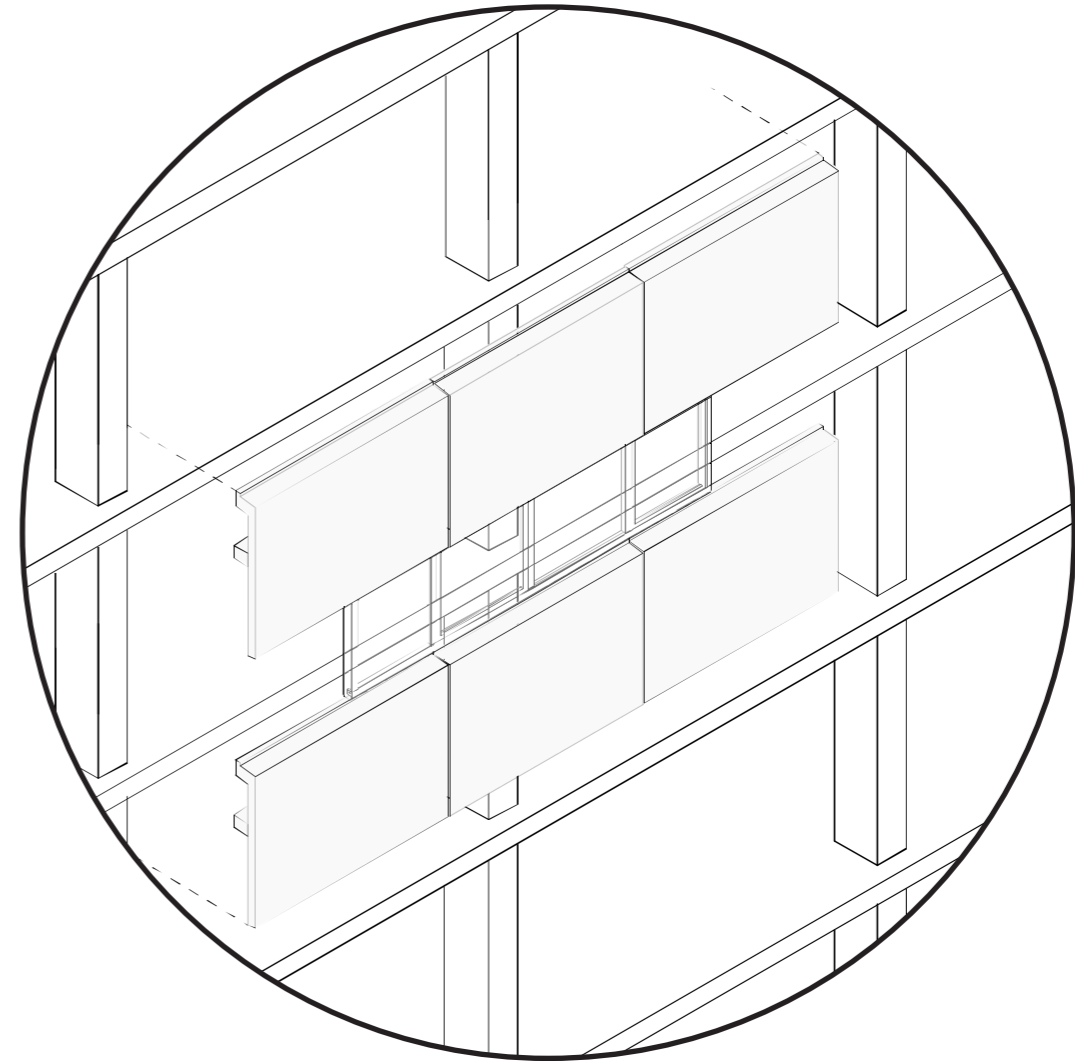
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west facade

reuse concrete facade panels

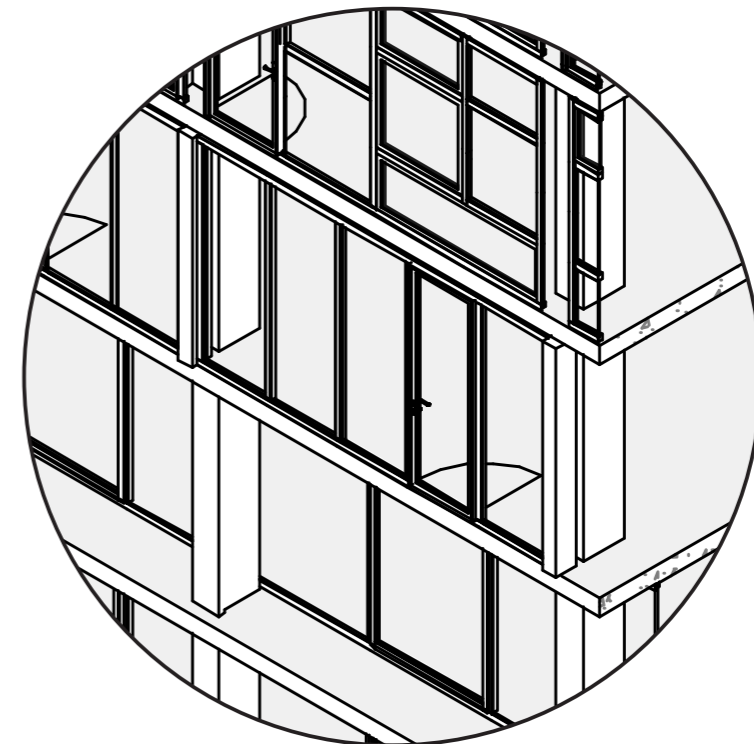
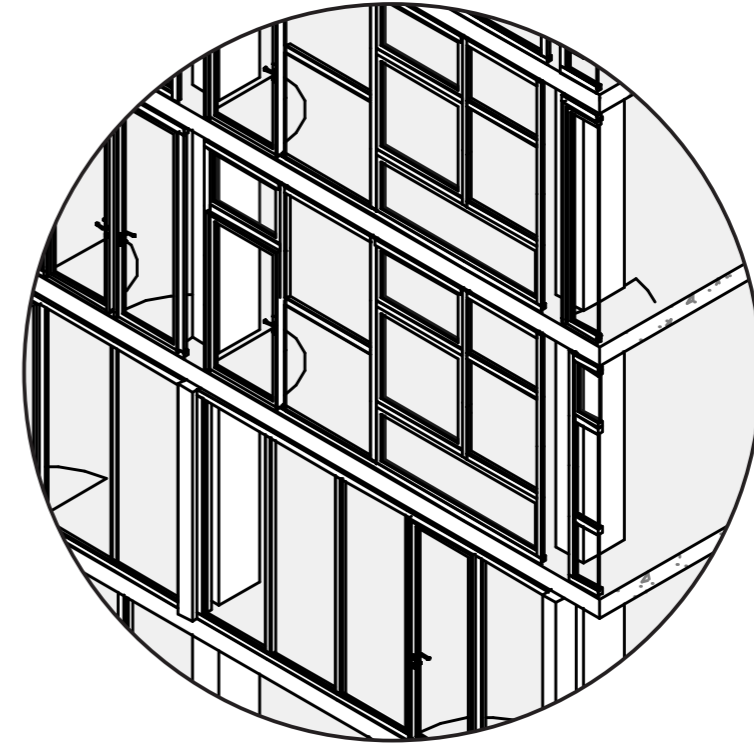
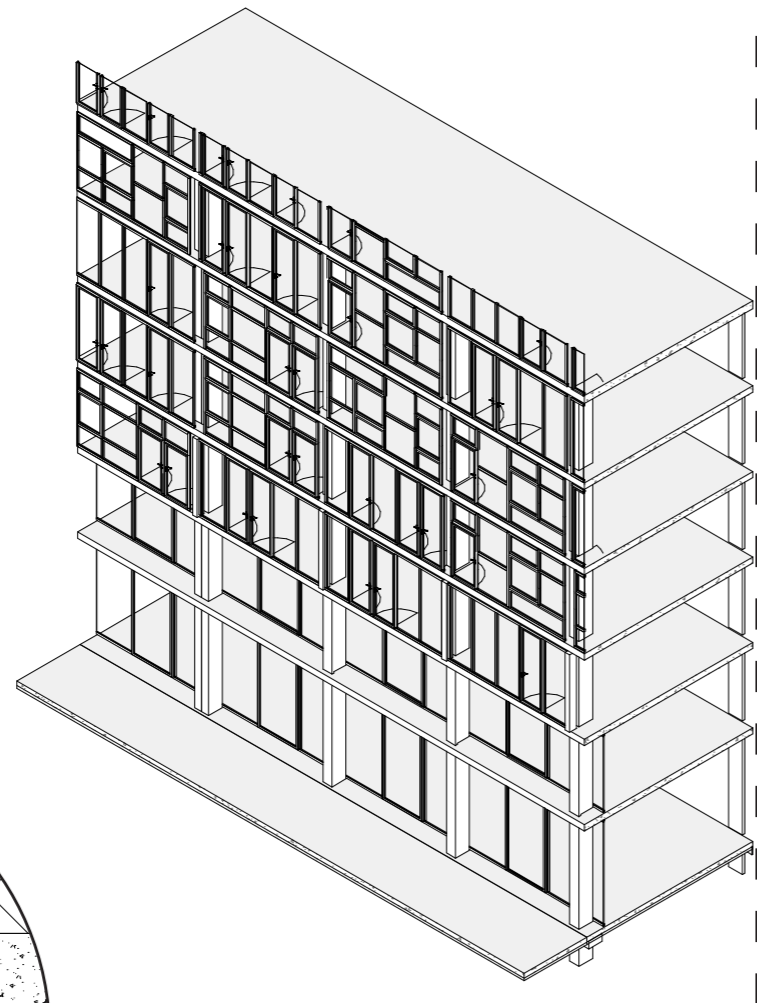
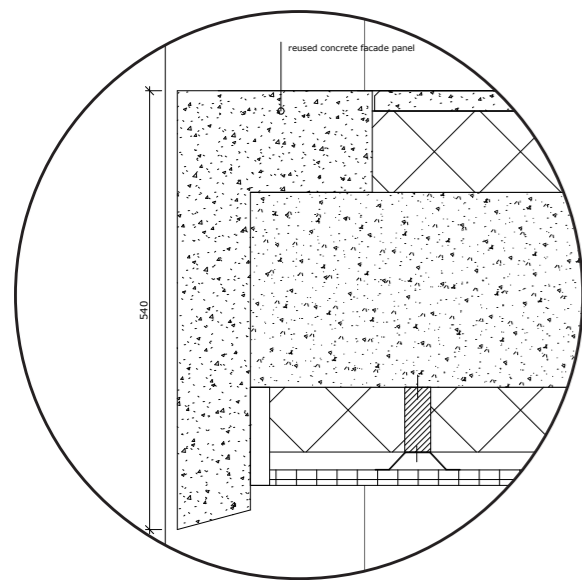
skin



east facade

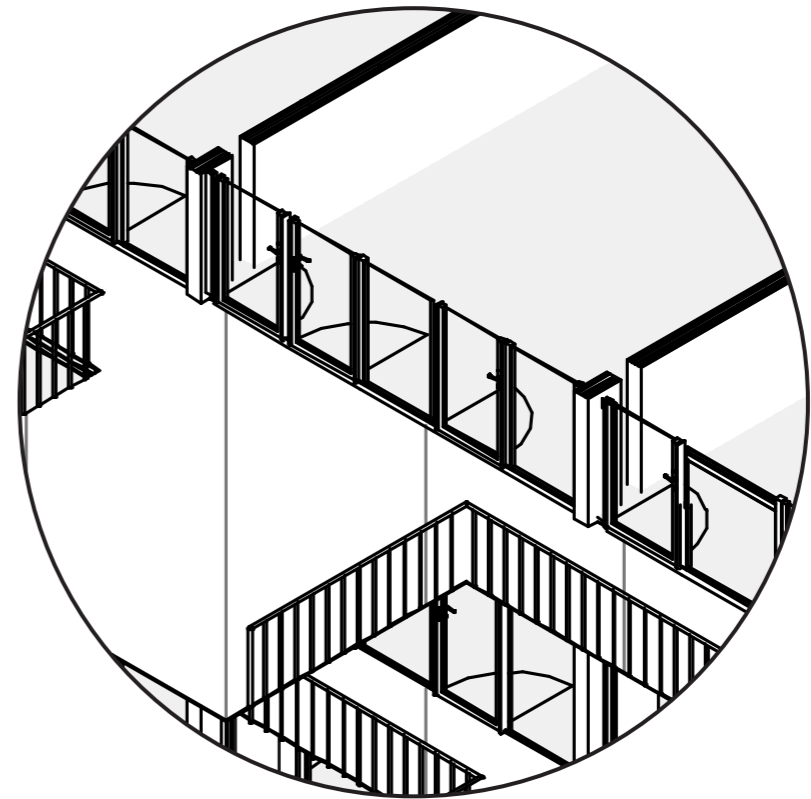
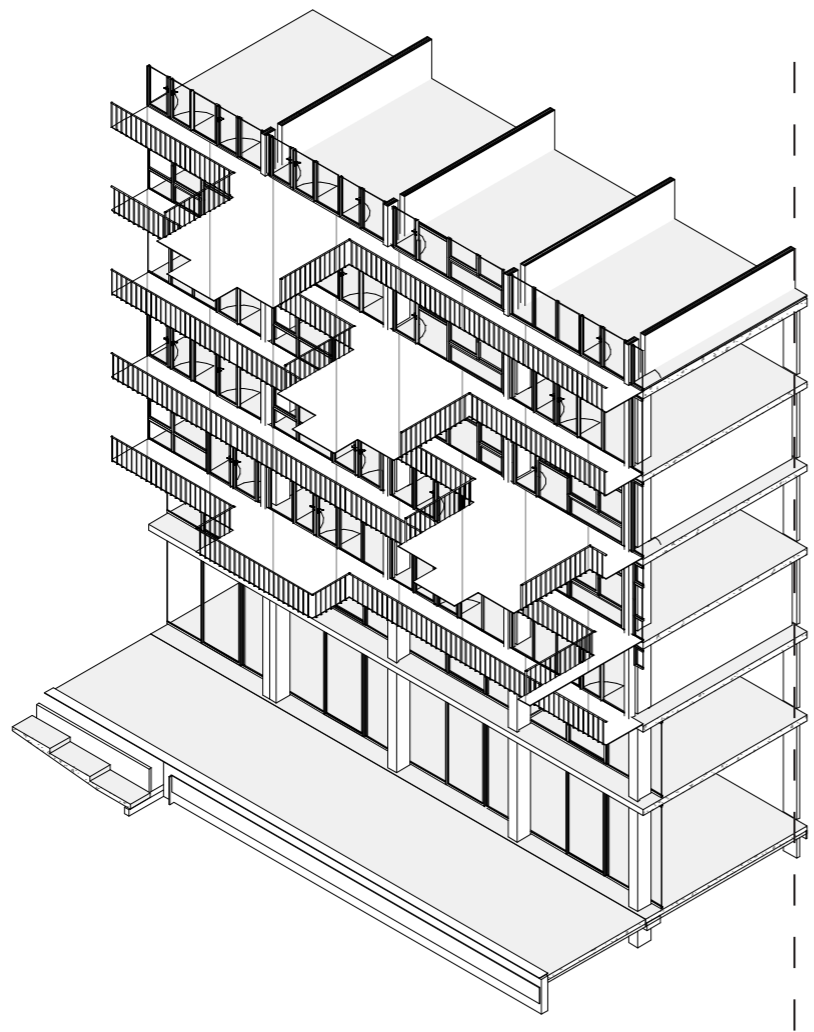
reuse window openings

skin



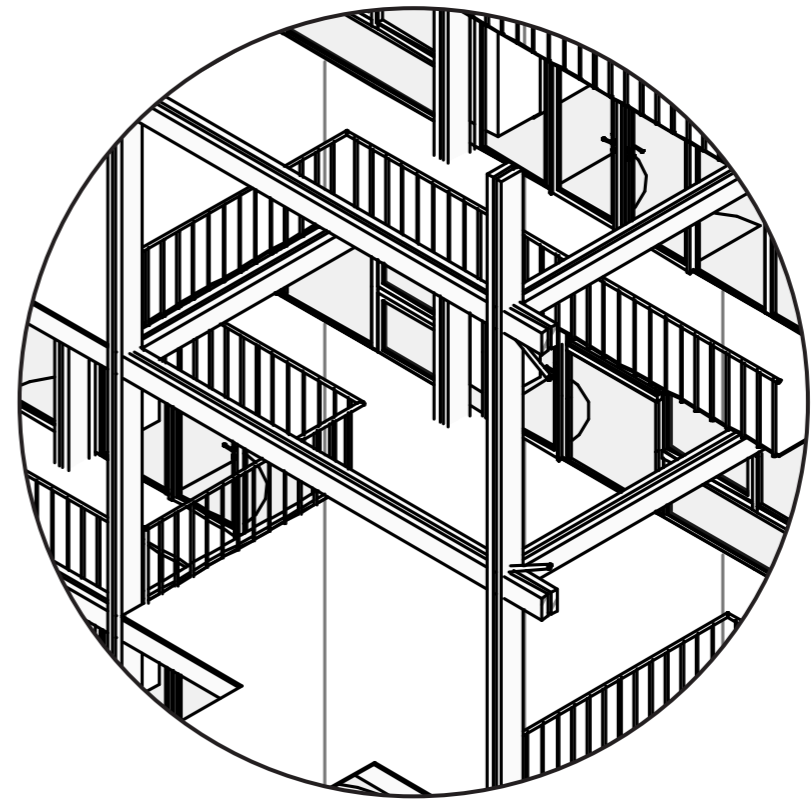
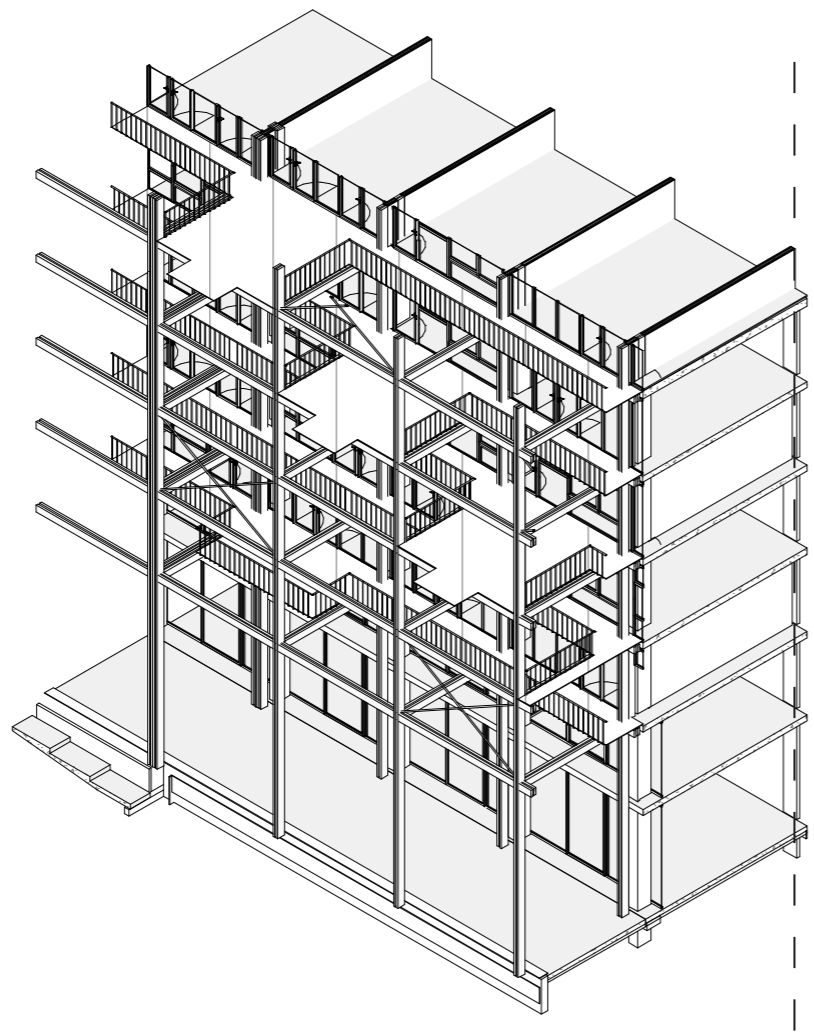
reuse window openings

skin



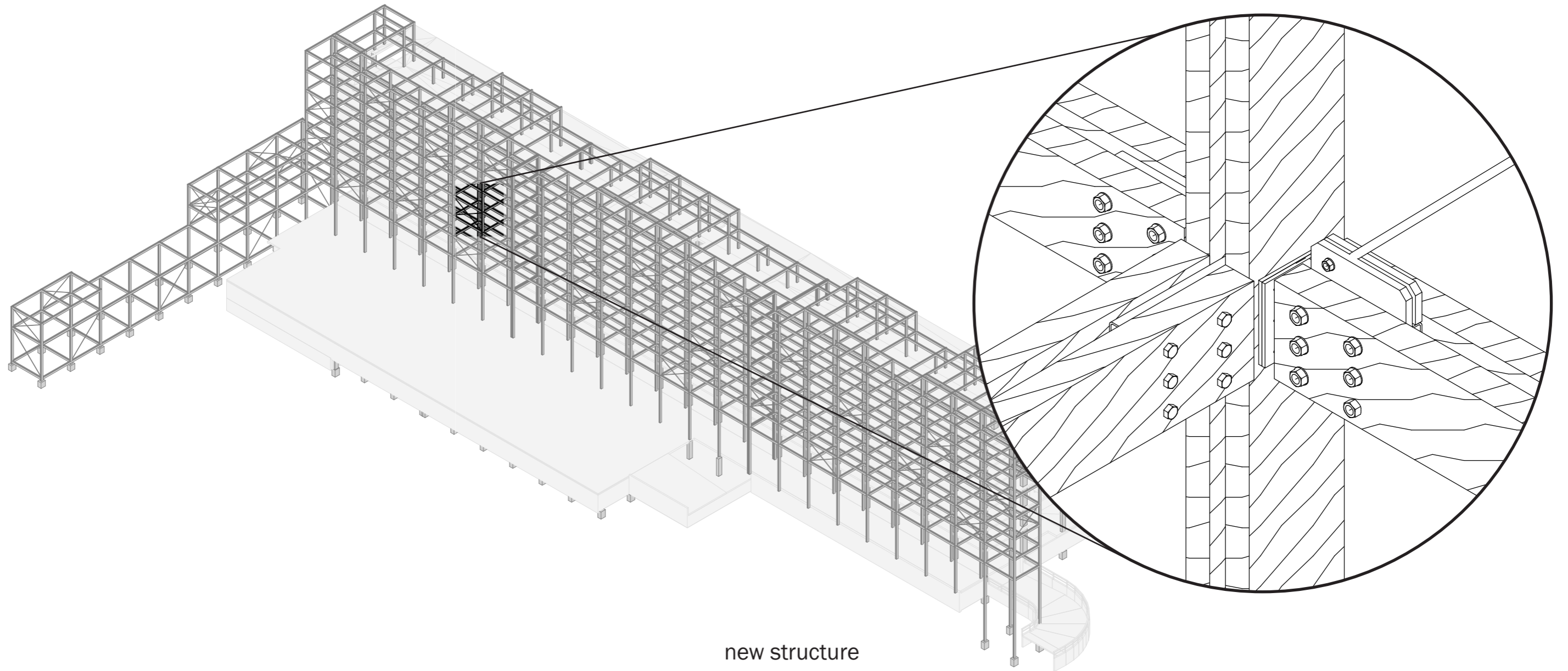
natural homogenous materials

space plan



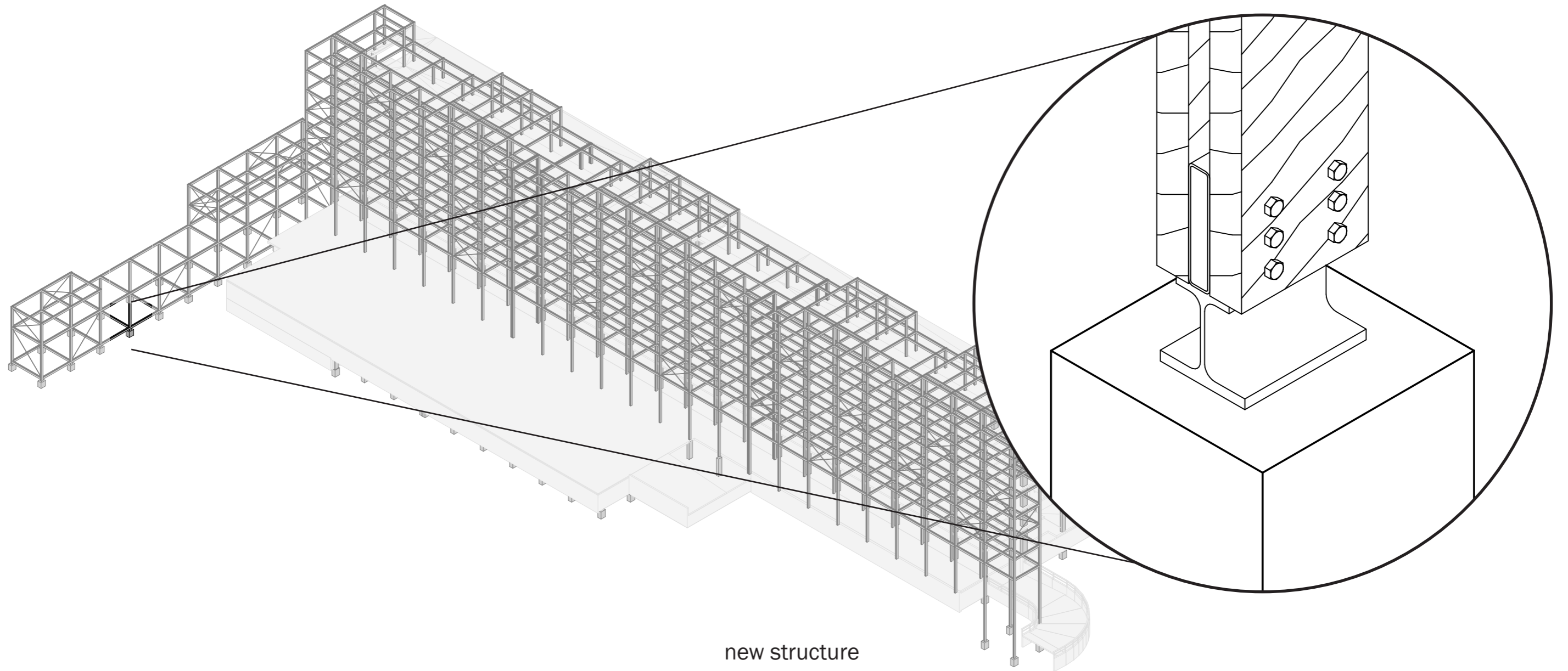
natural homogenous materials

structure



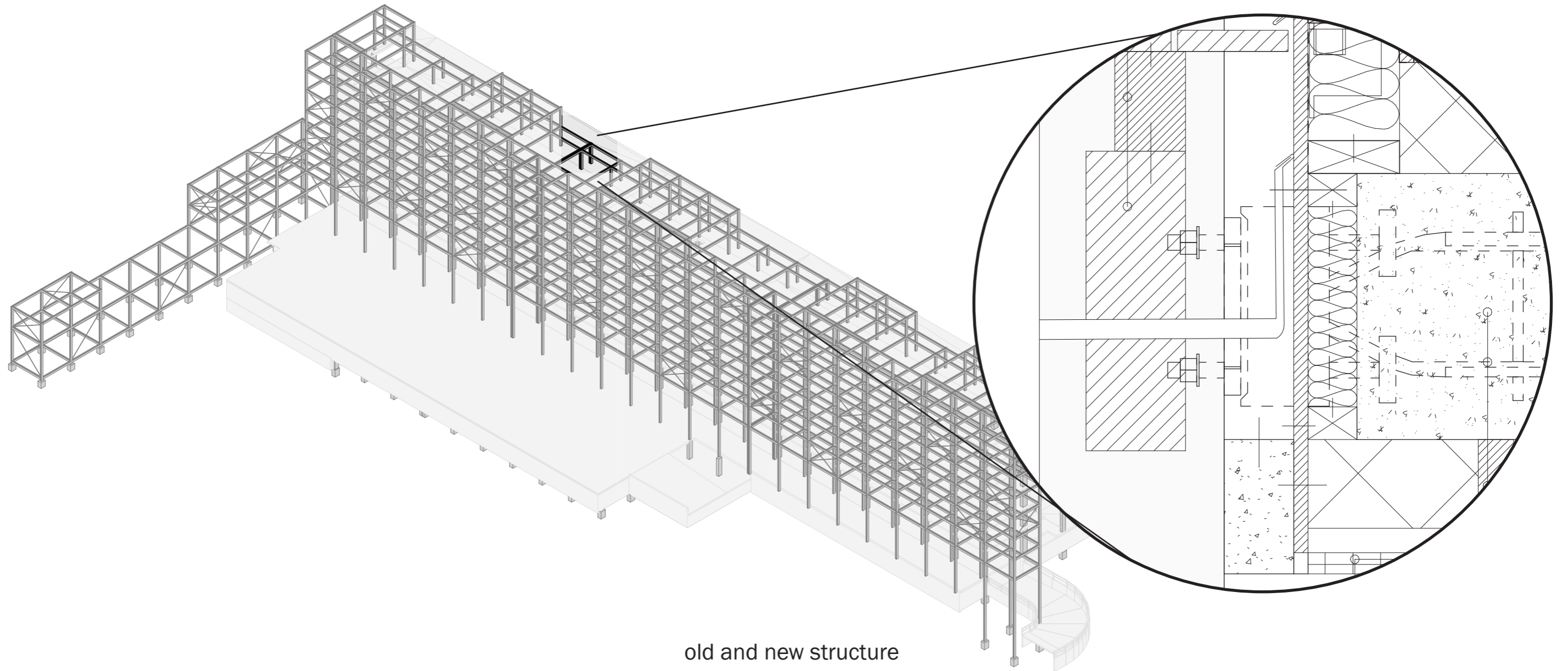
new structure

structure



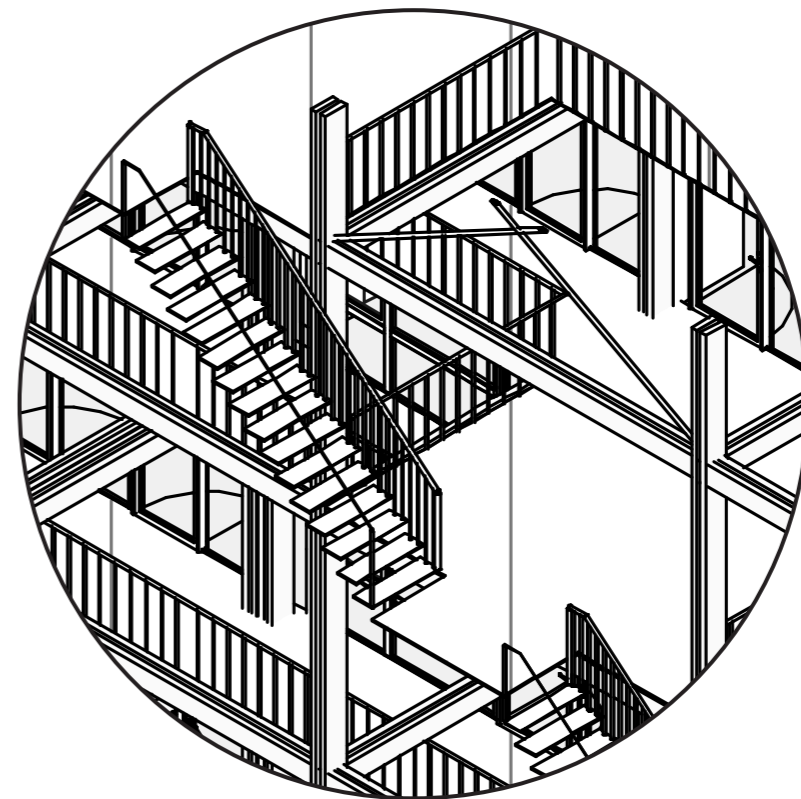
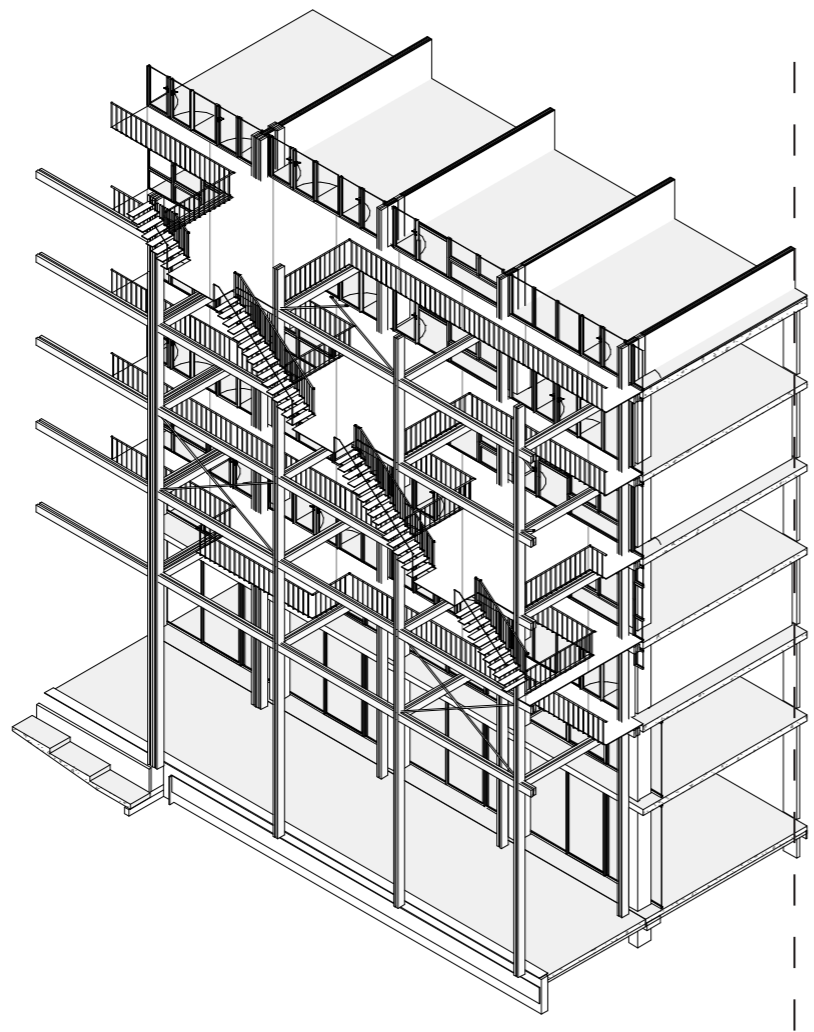
new structure

structure



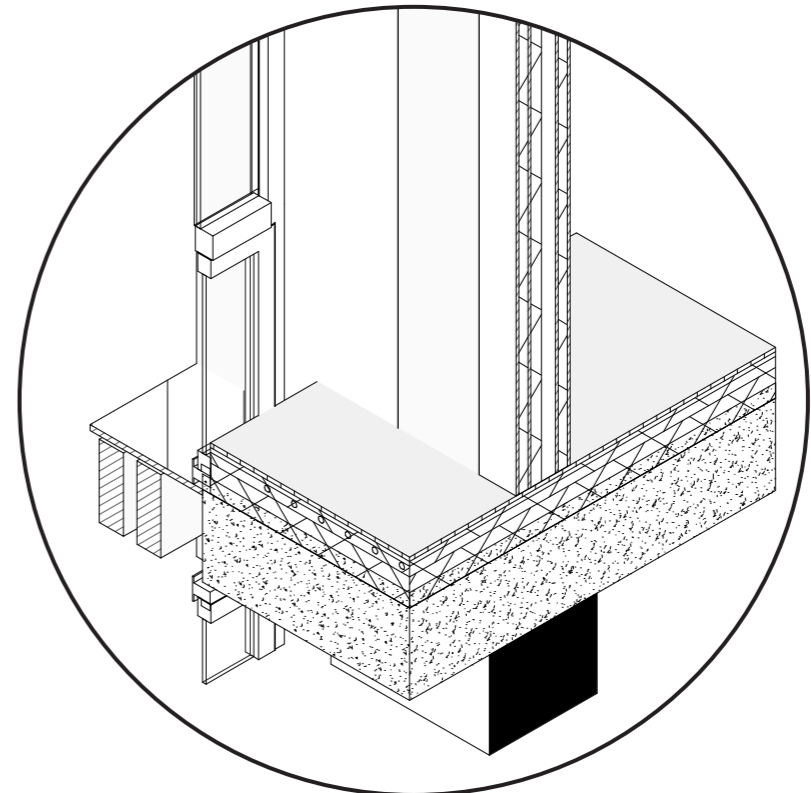
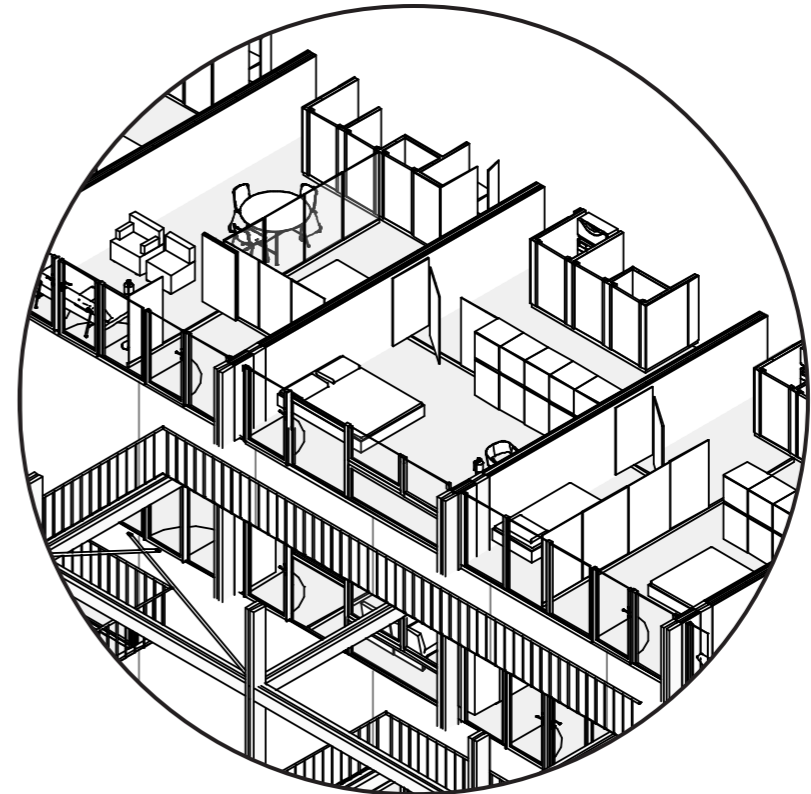
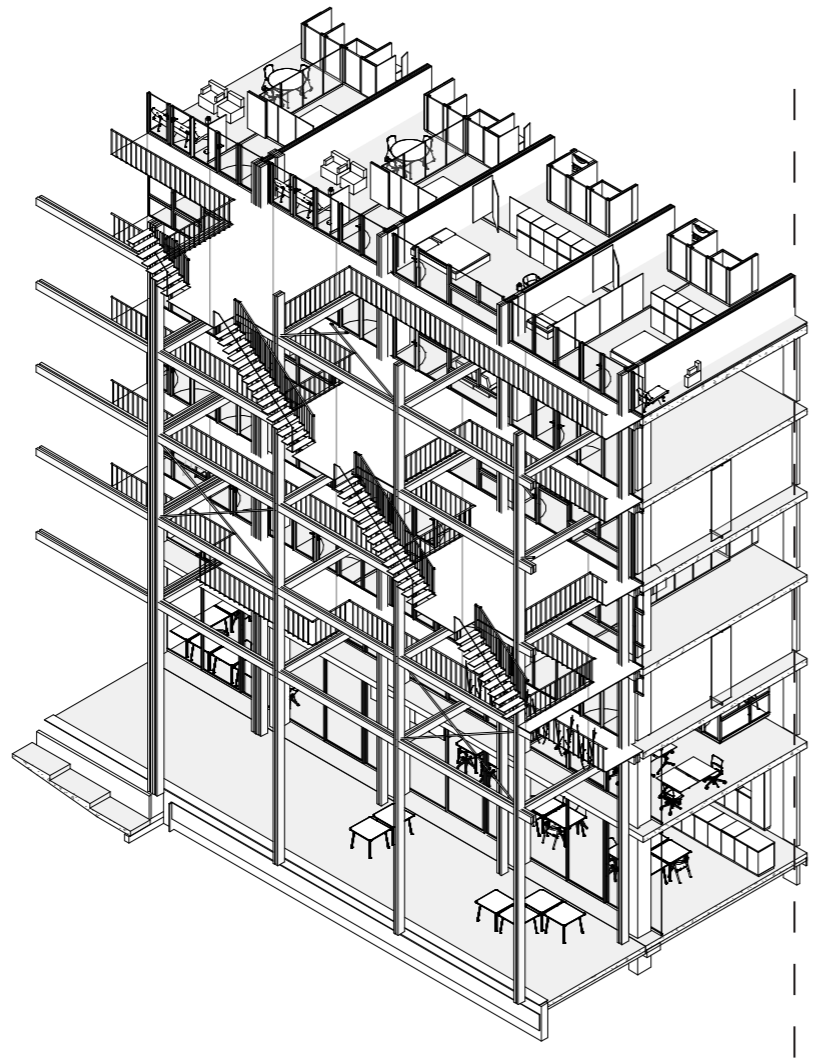
old and new structure

structure



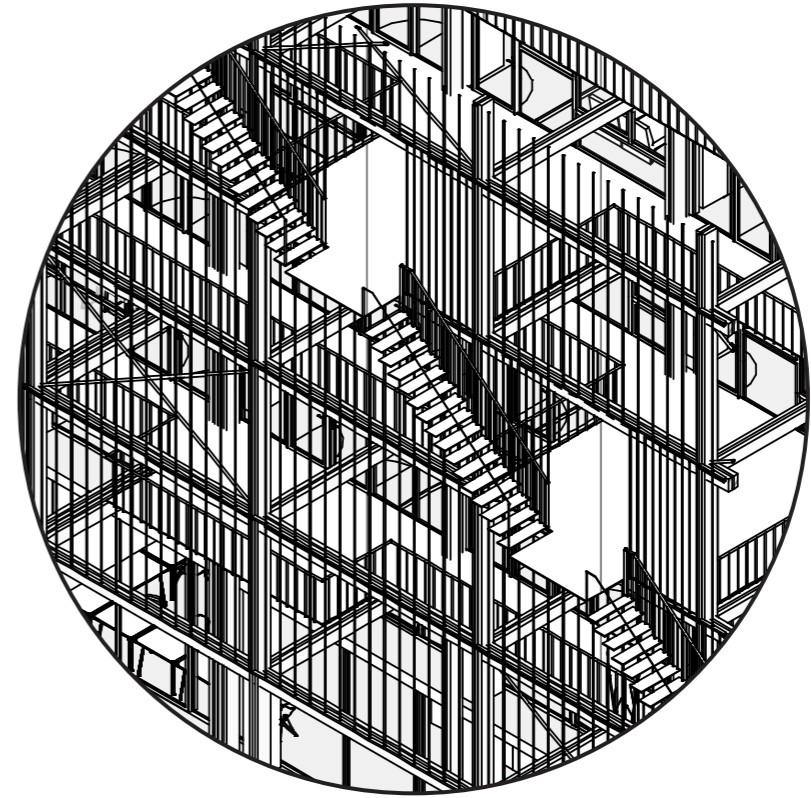
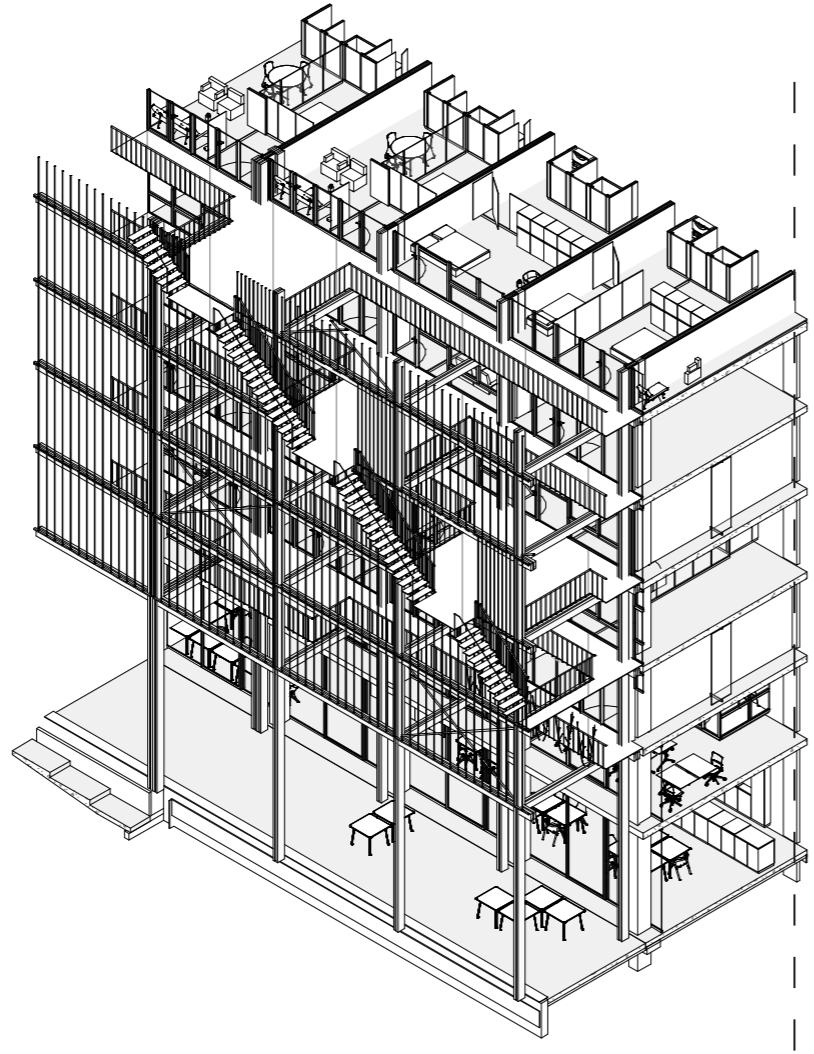
additional demountable services

services



natural homogenous materials

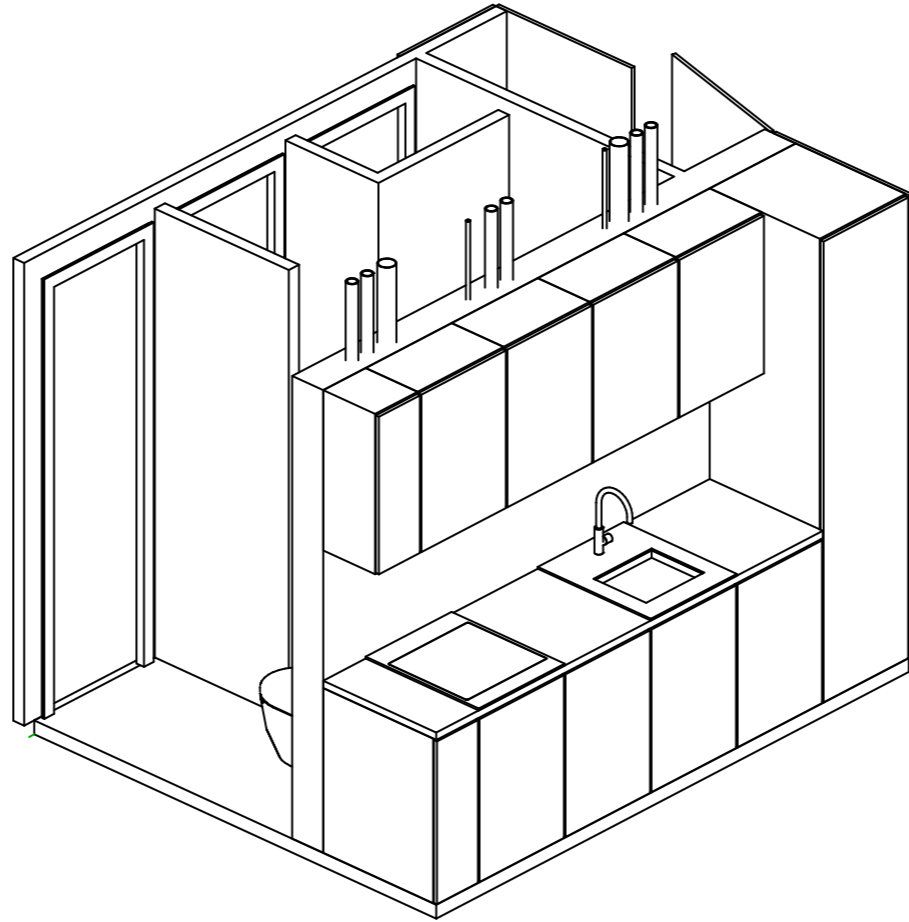
space plan



recycled materials

skin

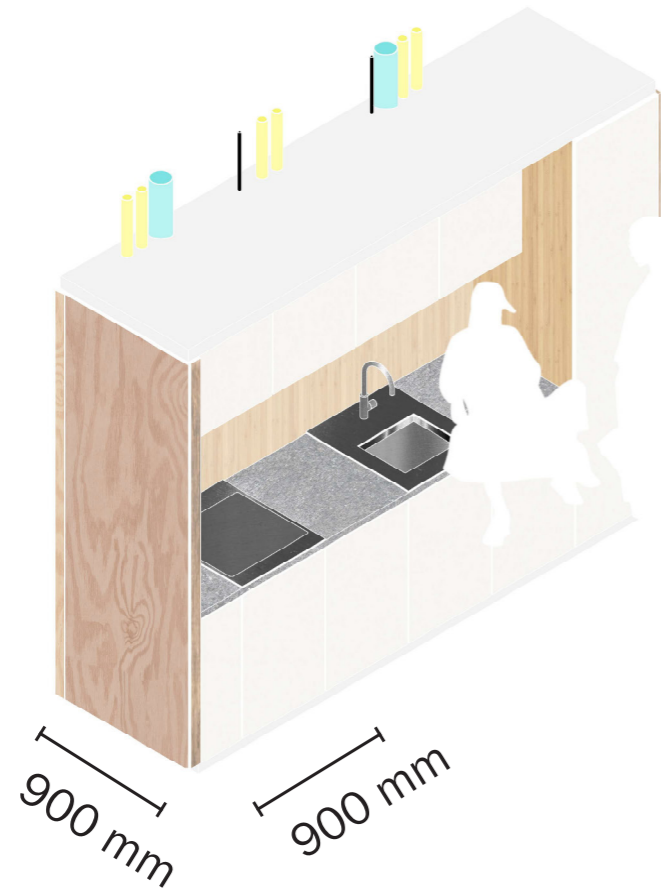
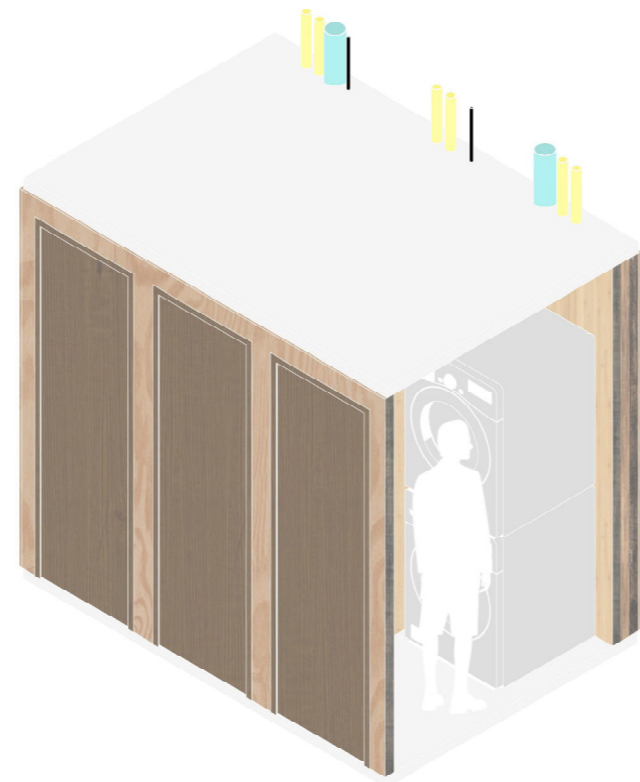
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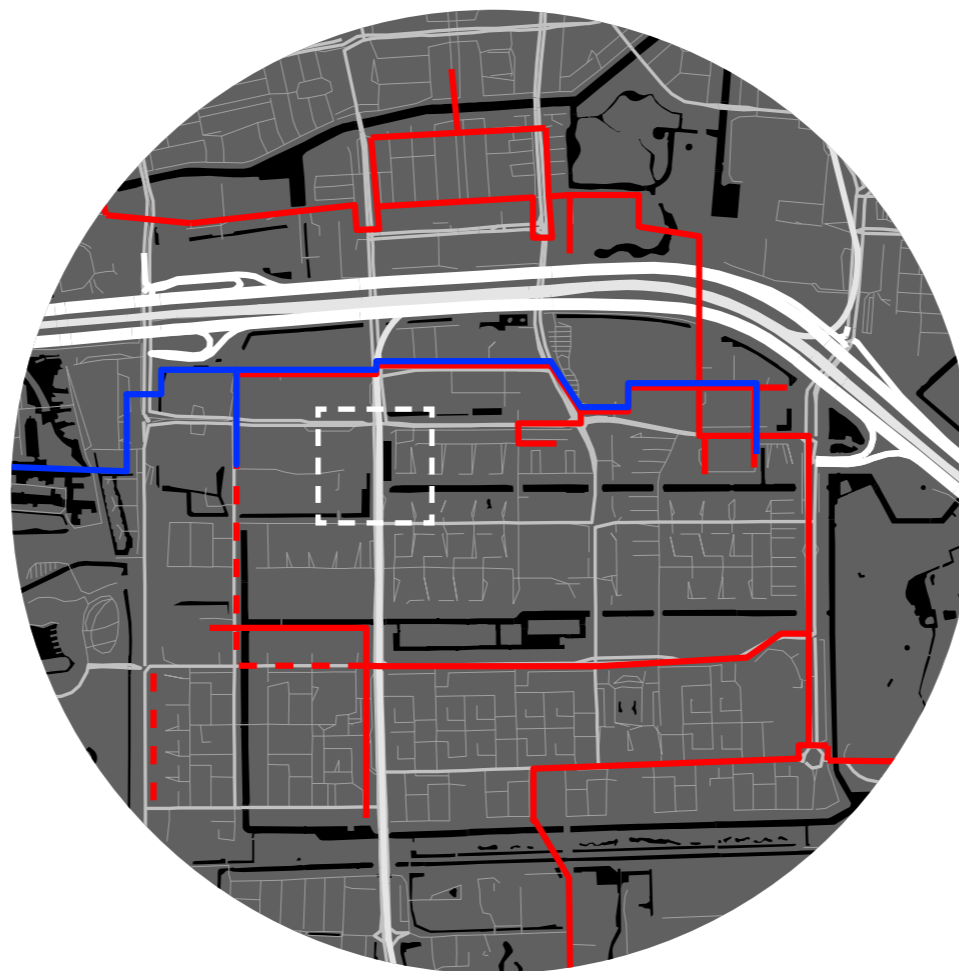


the unit

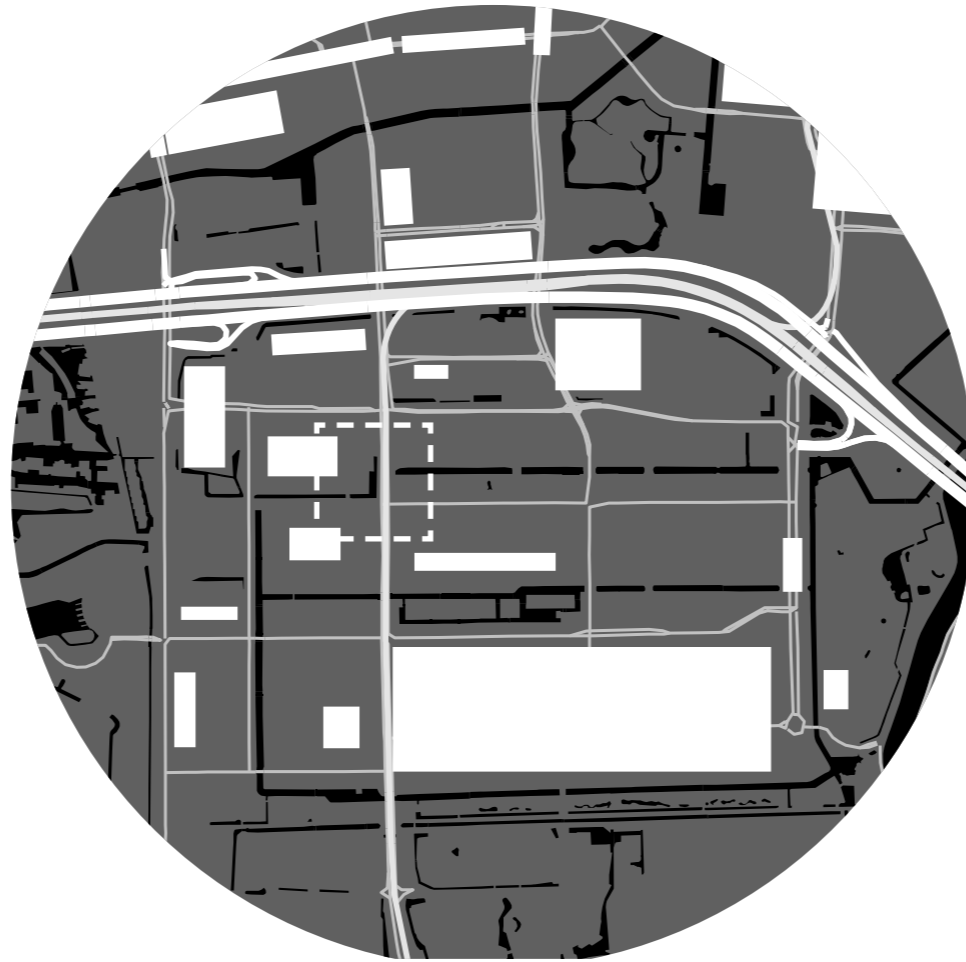
services

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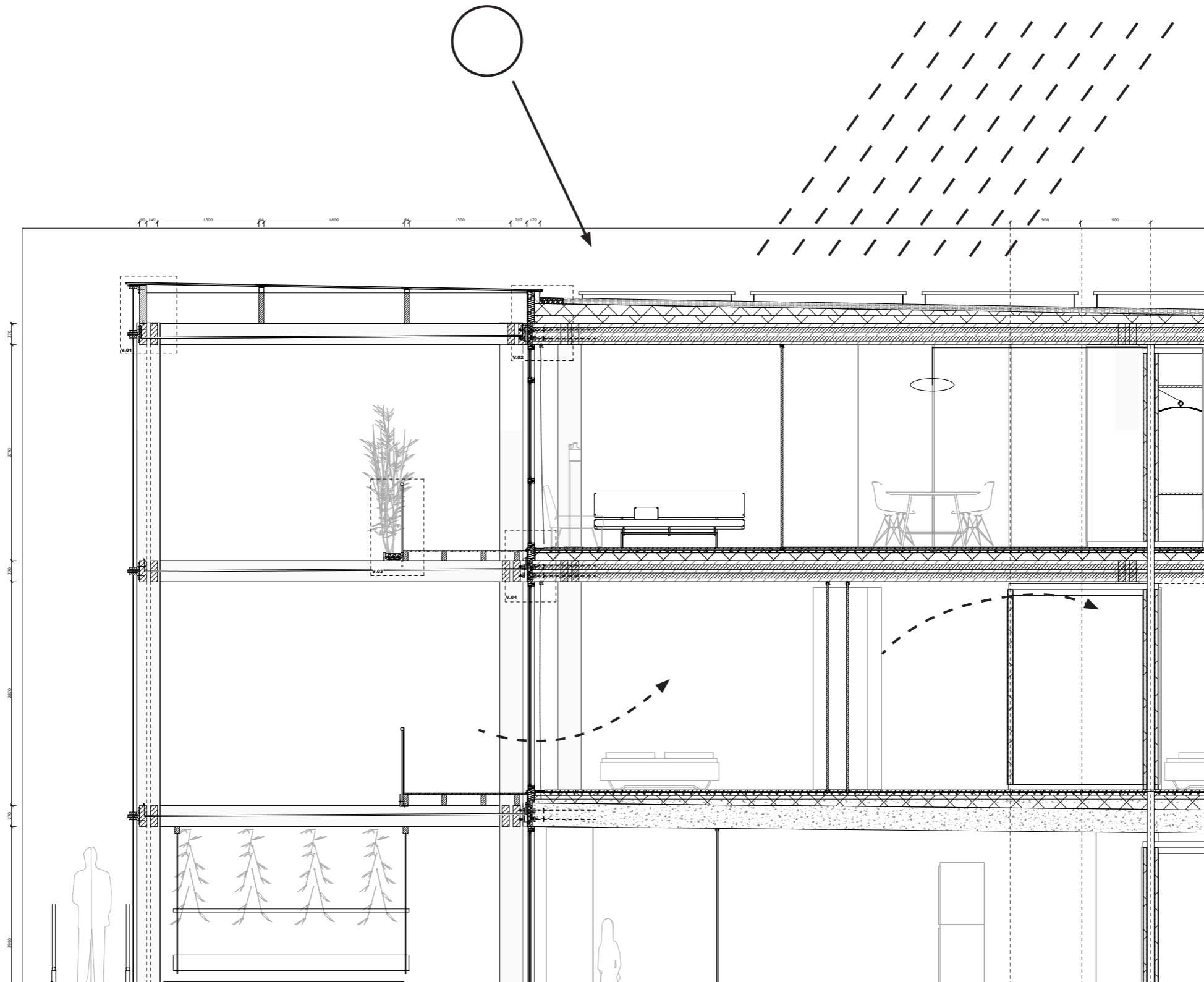


District heating and cooling in Buitenveldert



Rainwater bottlenecks in Buitenveldert

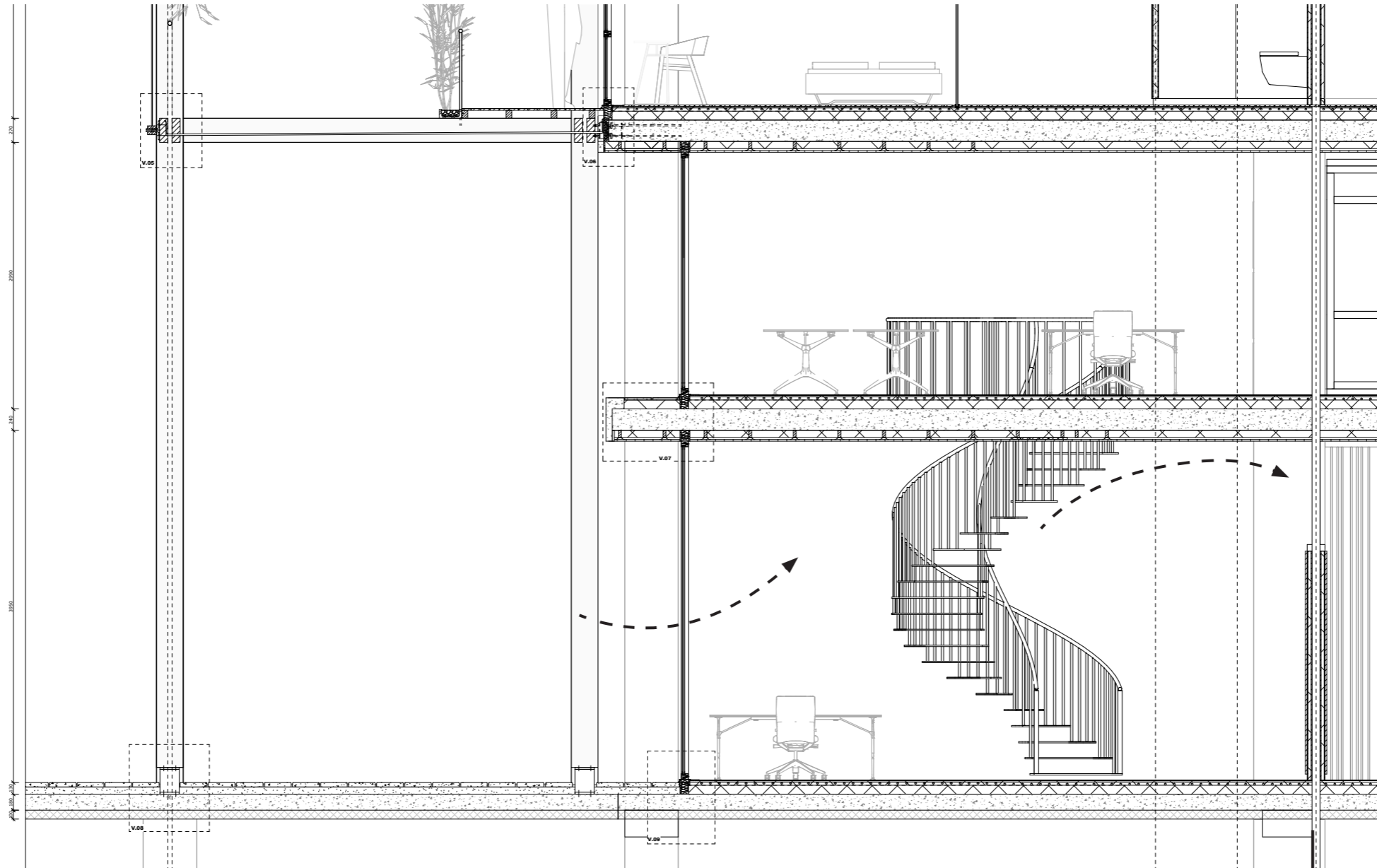
east



west

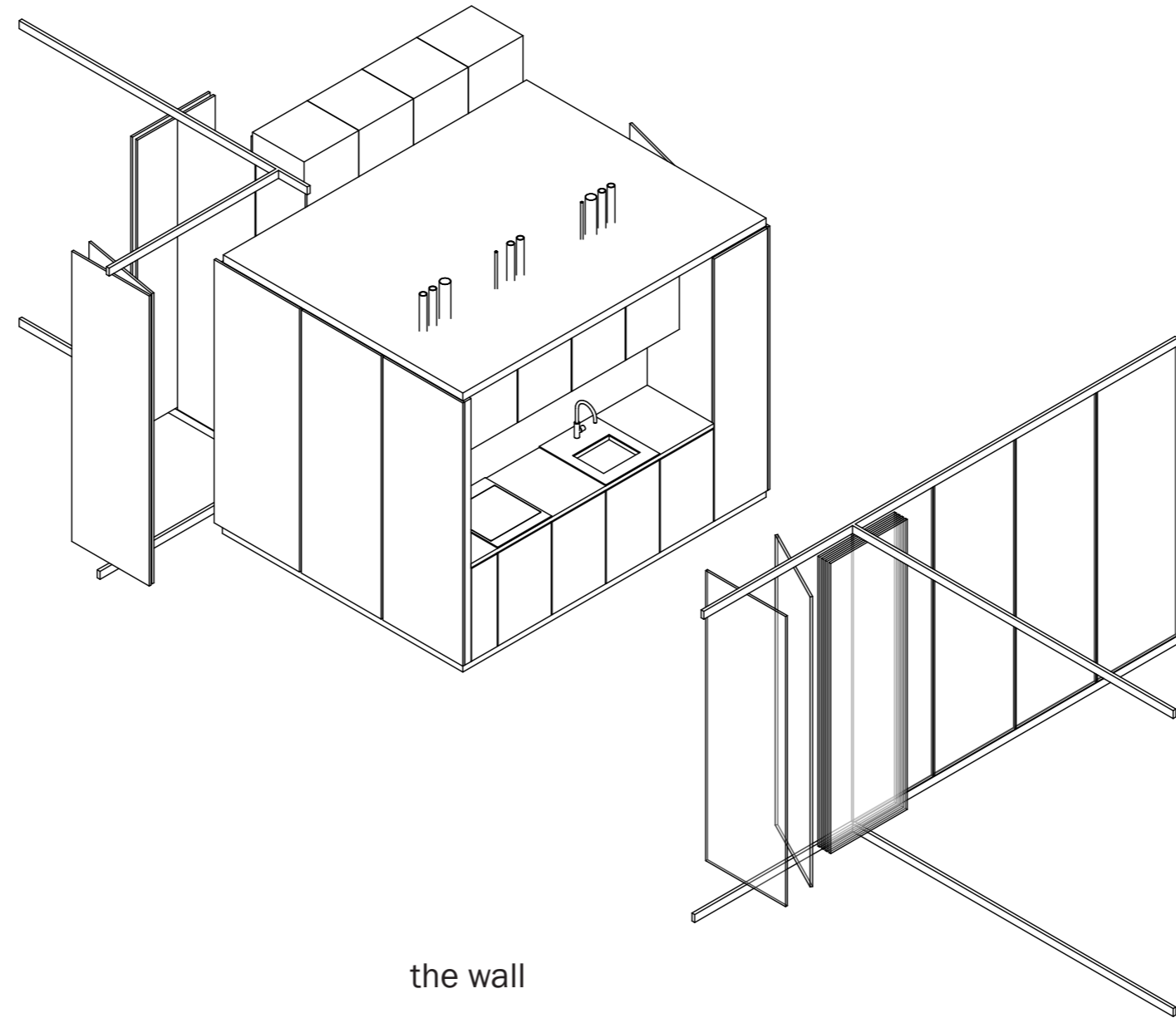
services

east



west

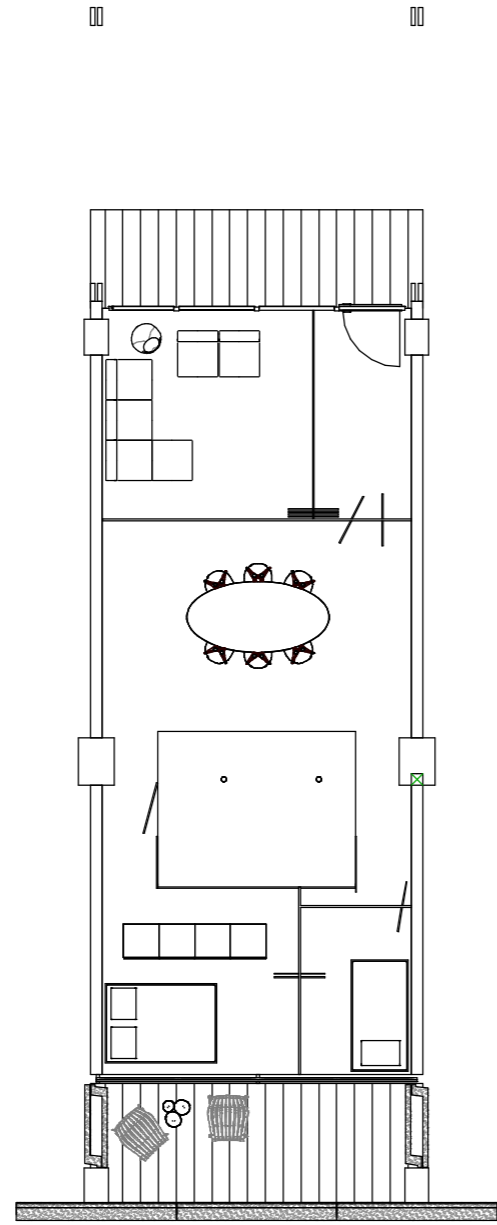
services and stuff



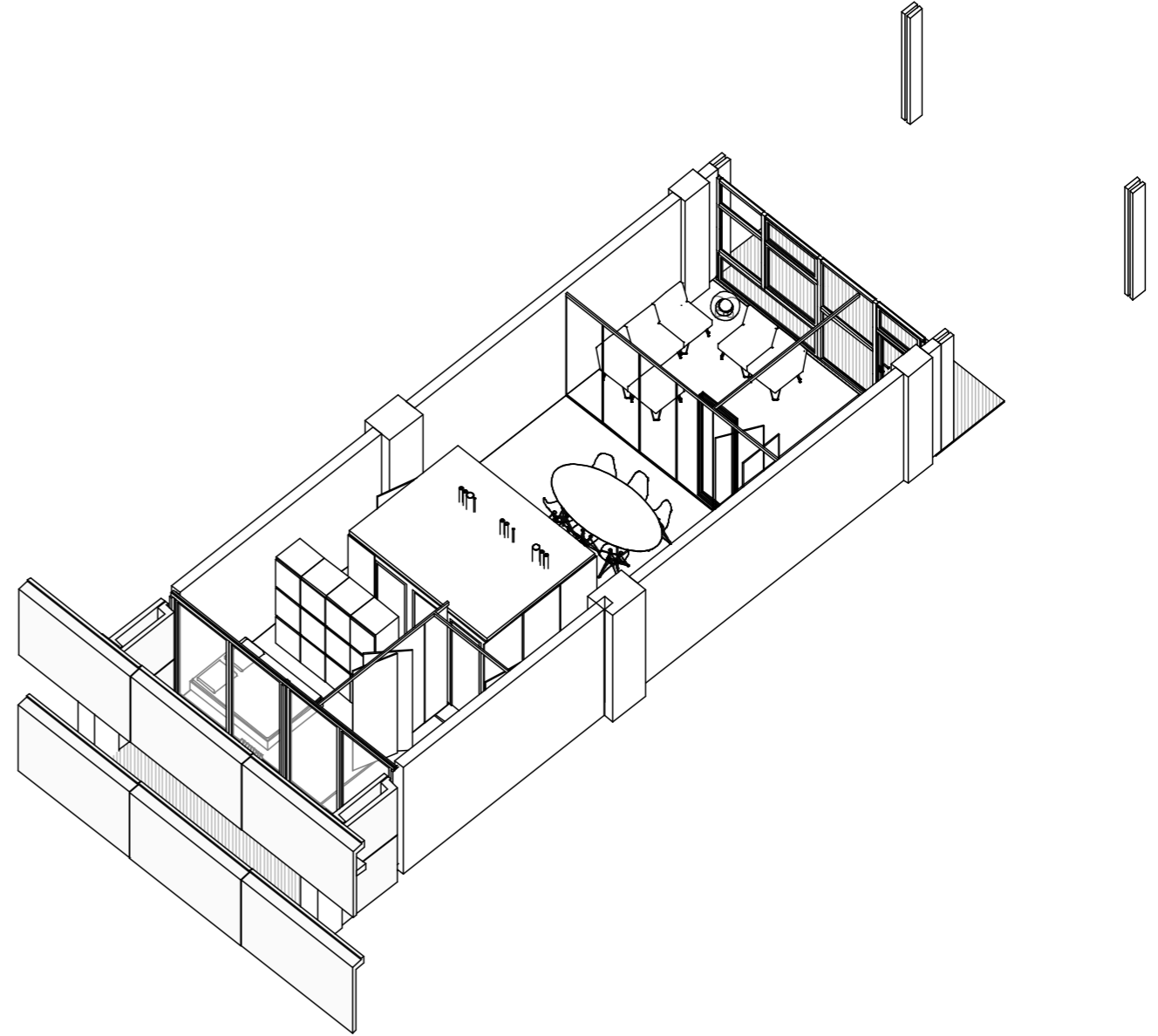
the wall

space plan

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plan

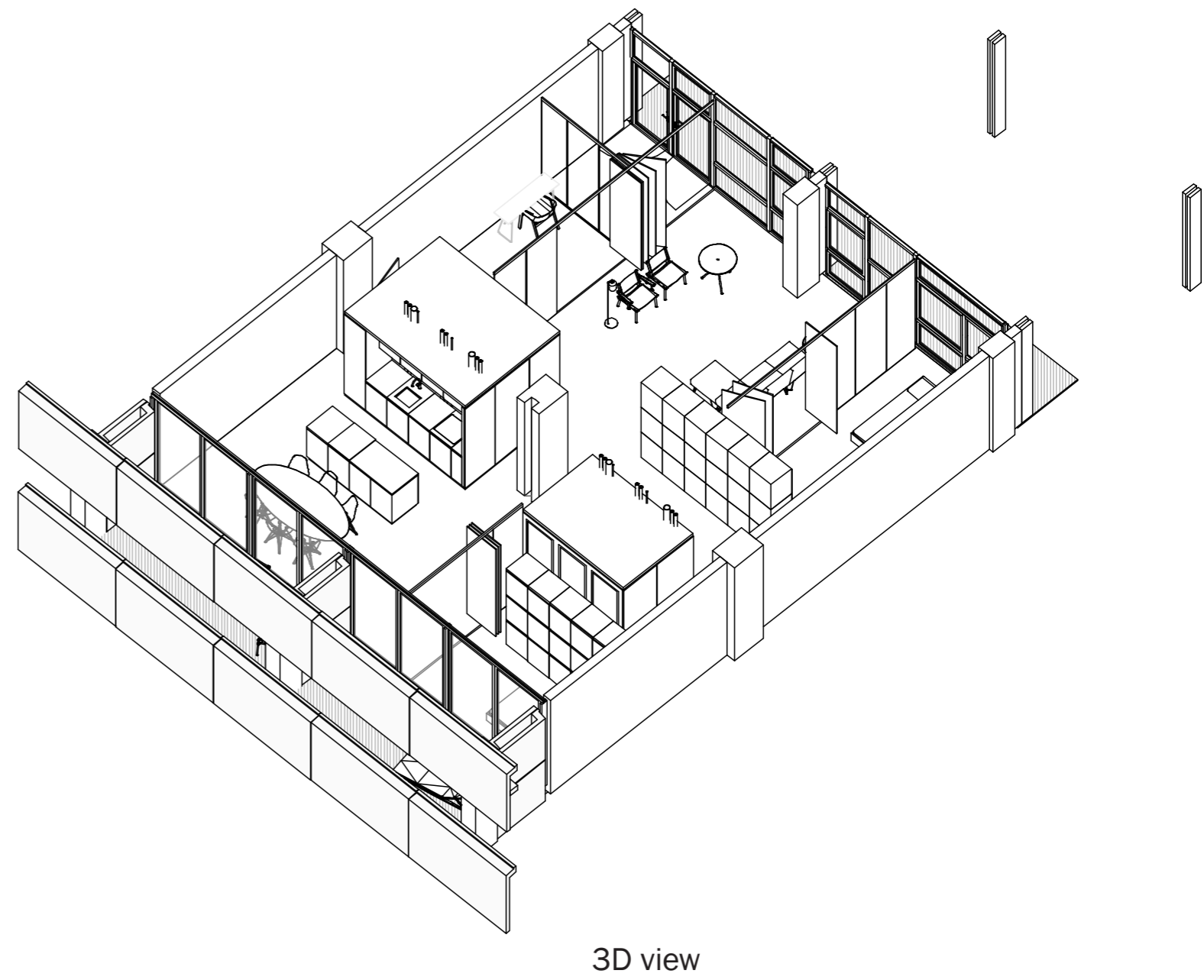
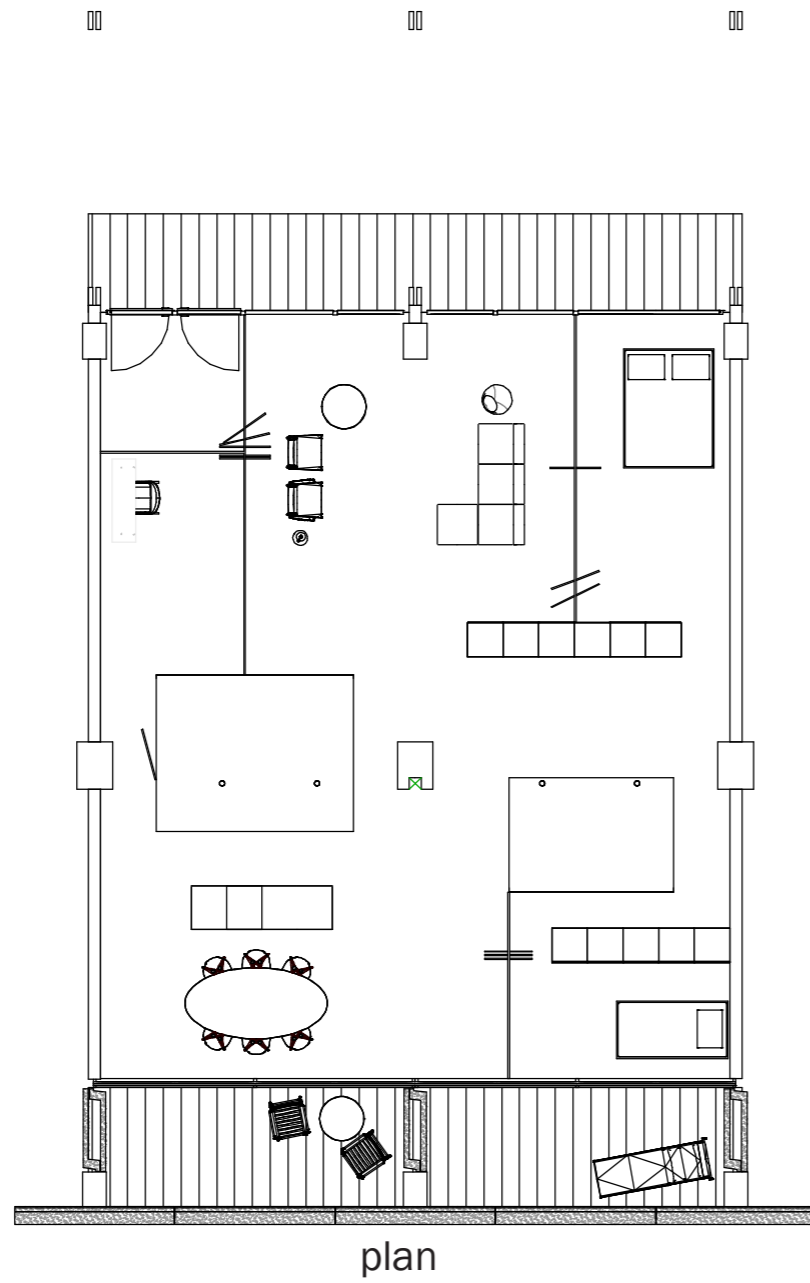


3D view

type A



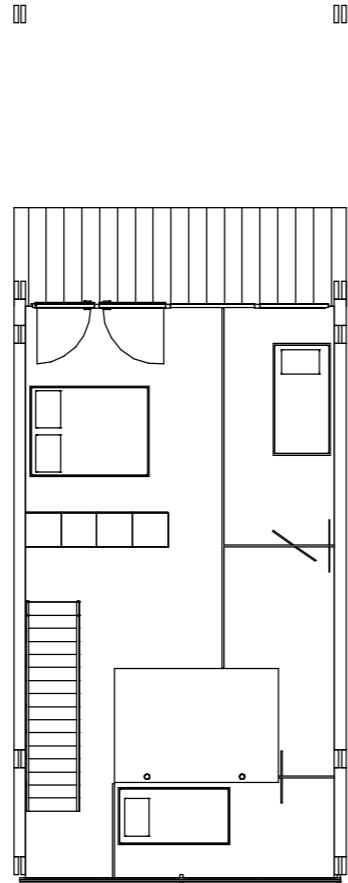
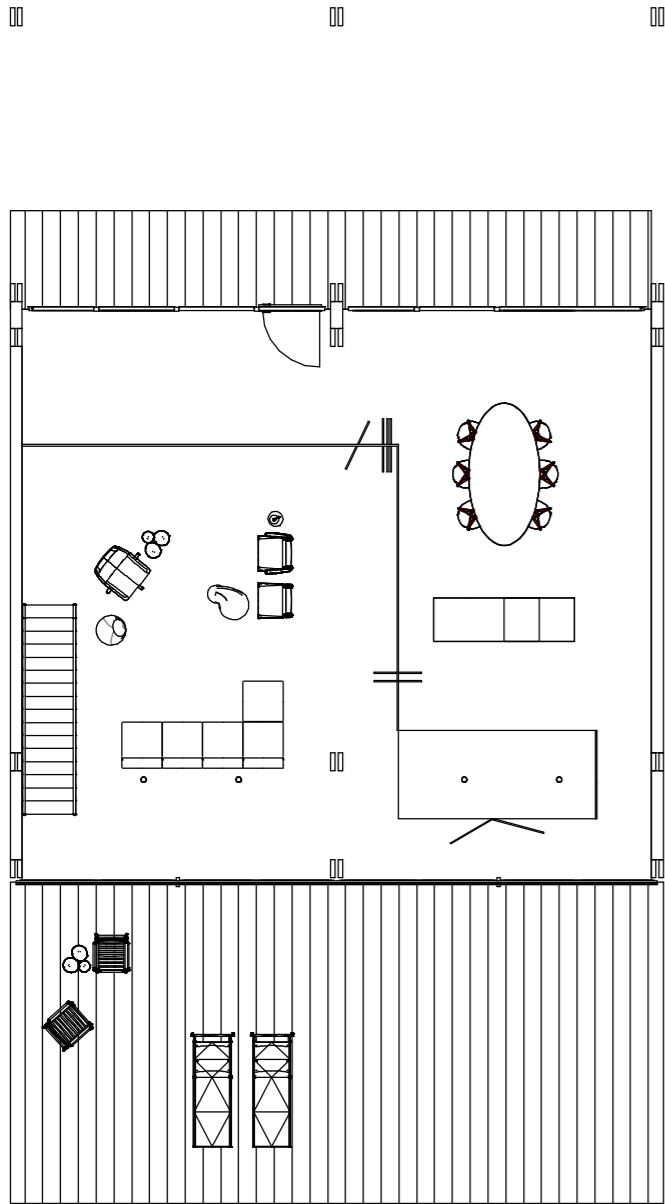
impression type A



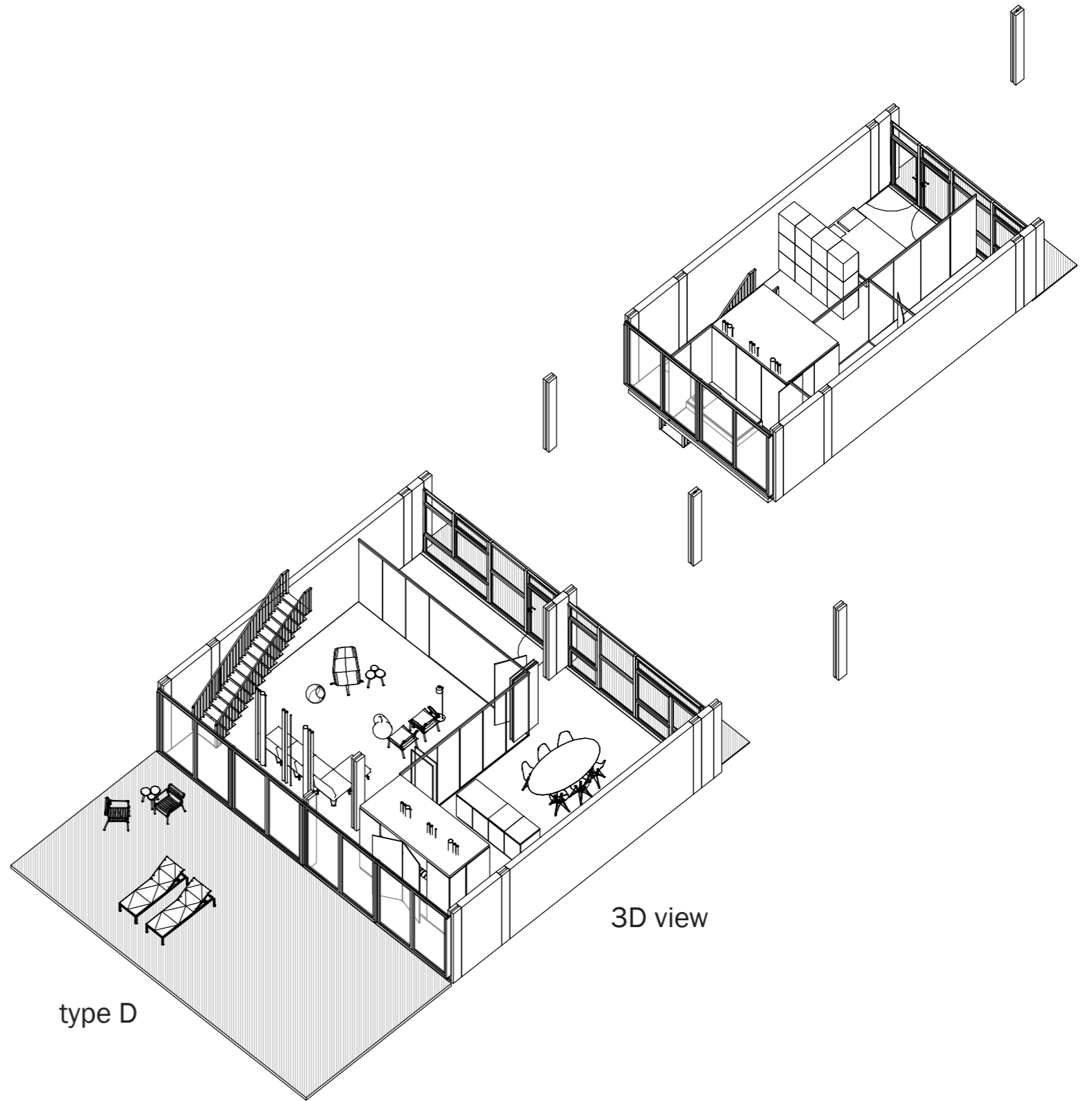
type B



impression type B



plan



3D view

type D



impression type D



from collective to private

model

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gallery

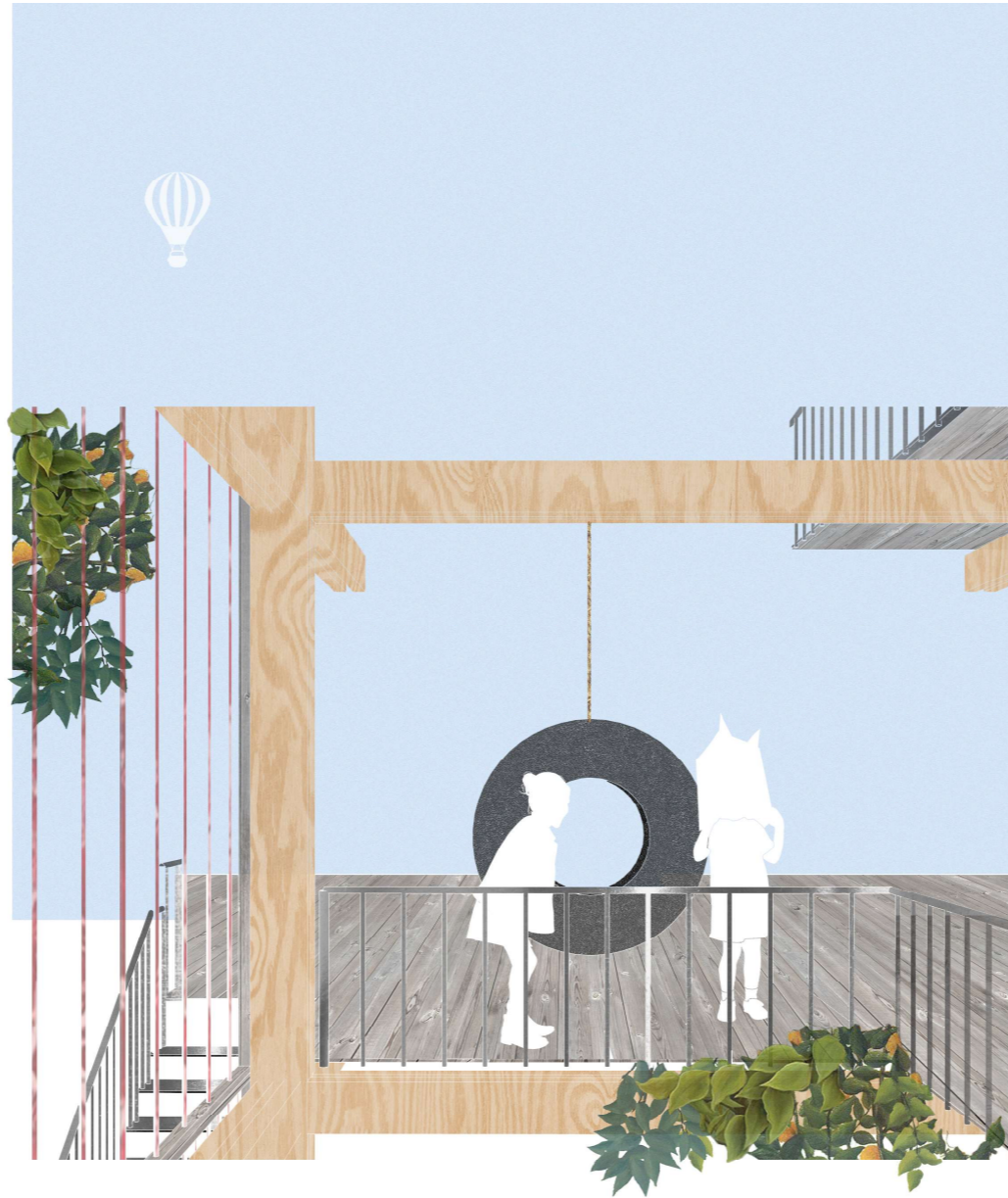
common spaces



gallery

common spaces

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gallery

common spaces

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roof gardens

common spaces



courtyard

common spaces



restaurant

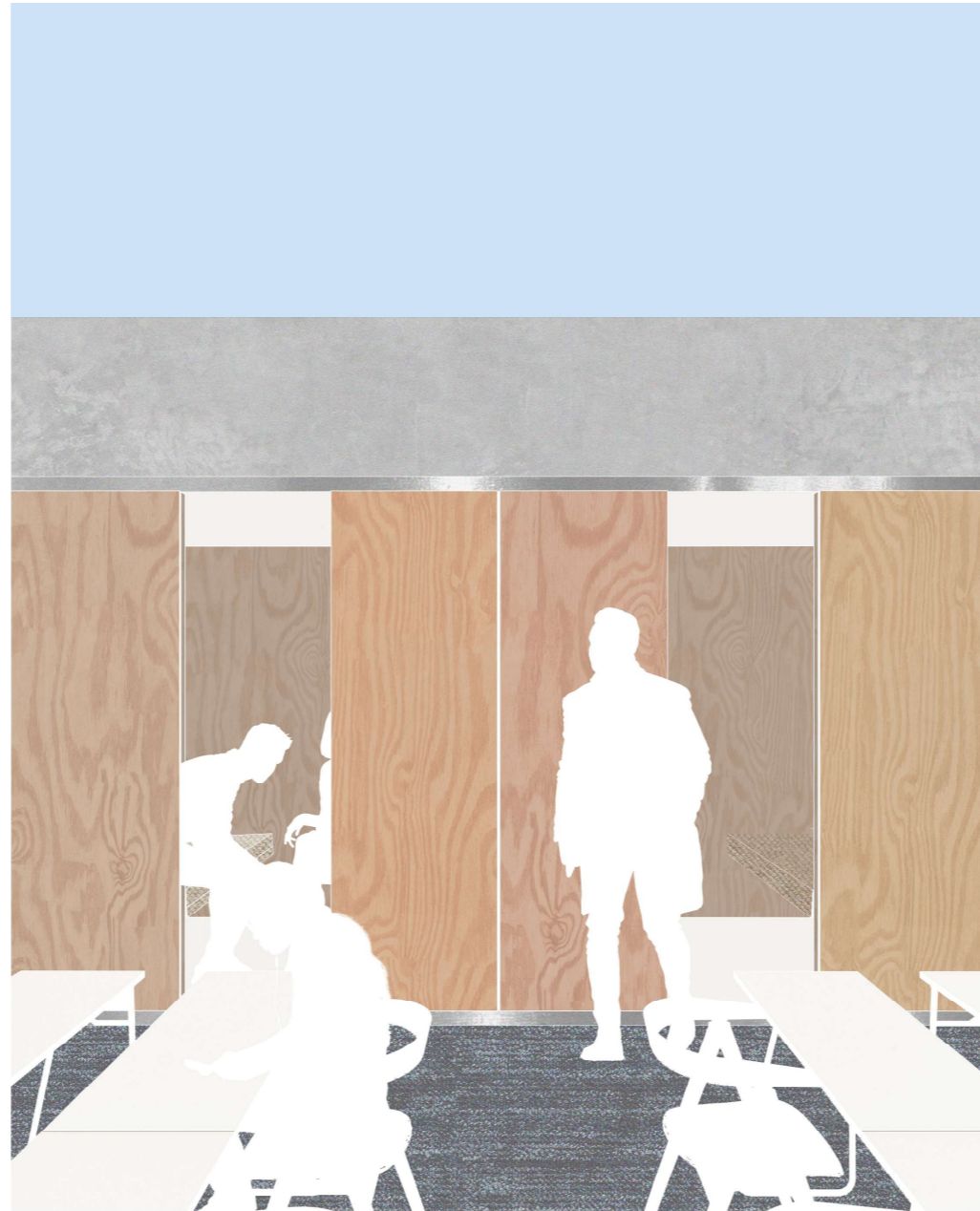
common spaces

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shared dining & washing

common spaces



working

common spaces

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working

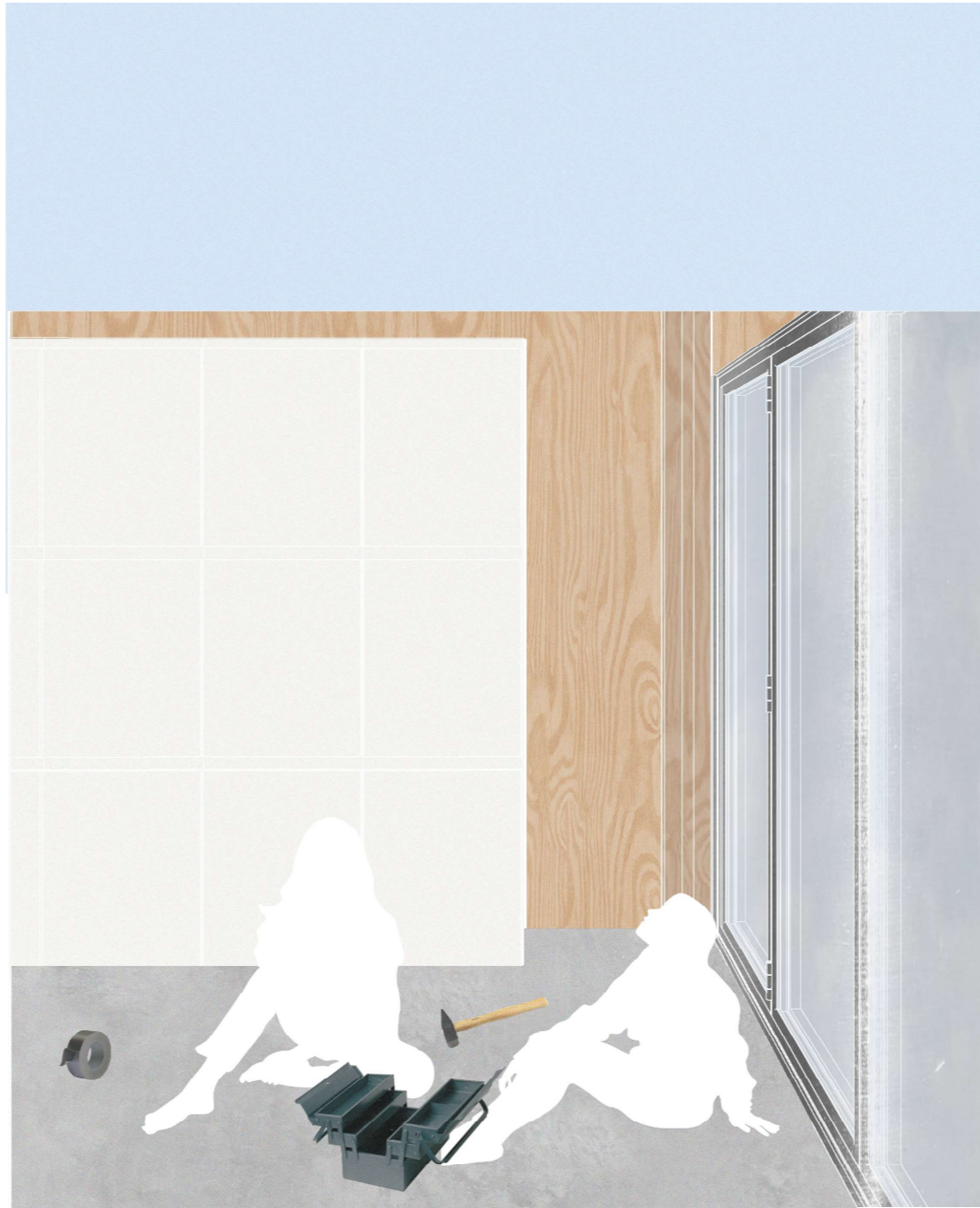
common spaces



working

common spaces

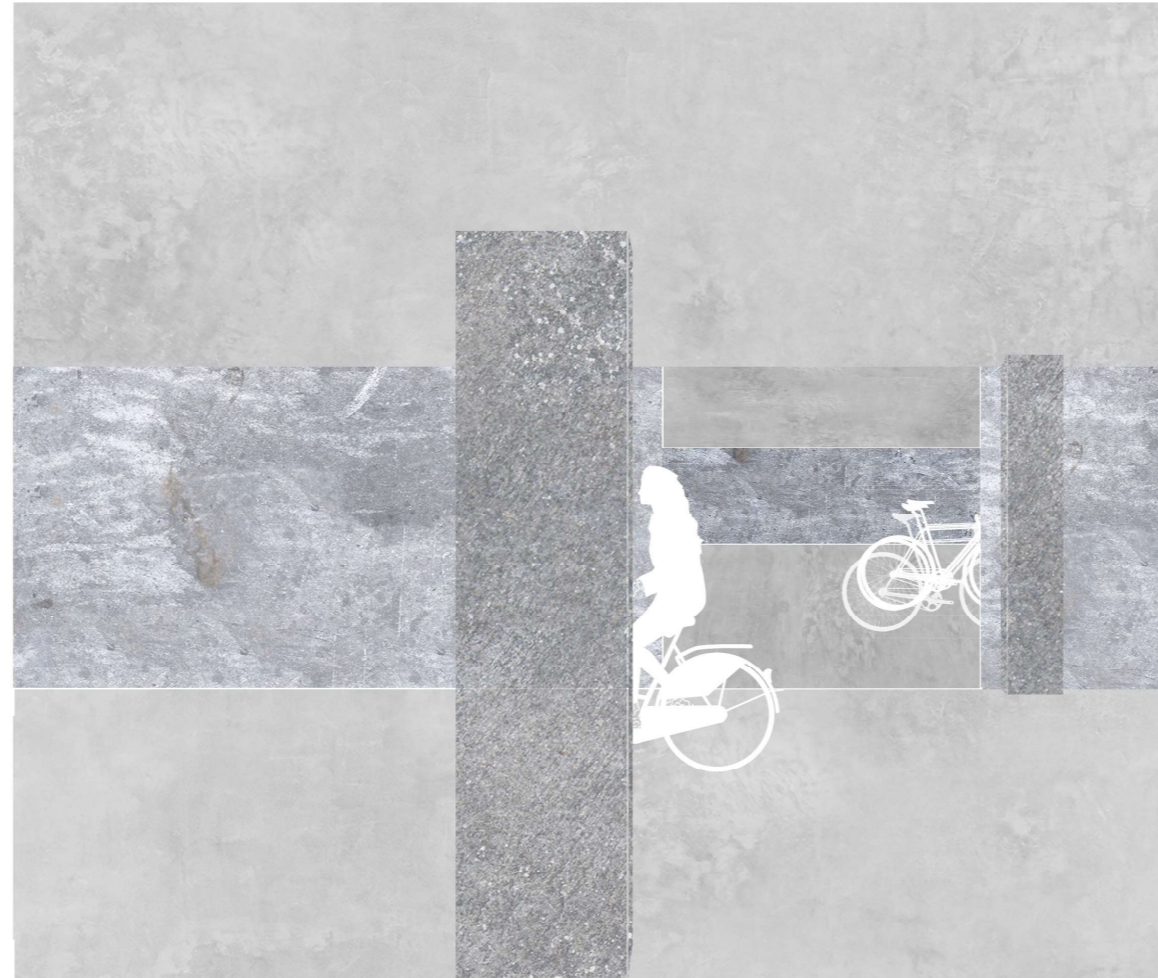
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working

common spaces

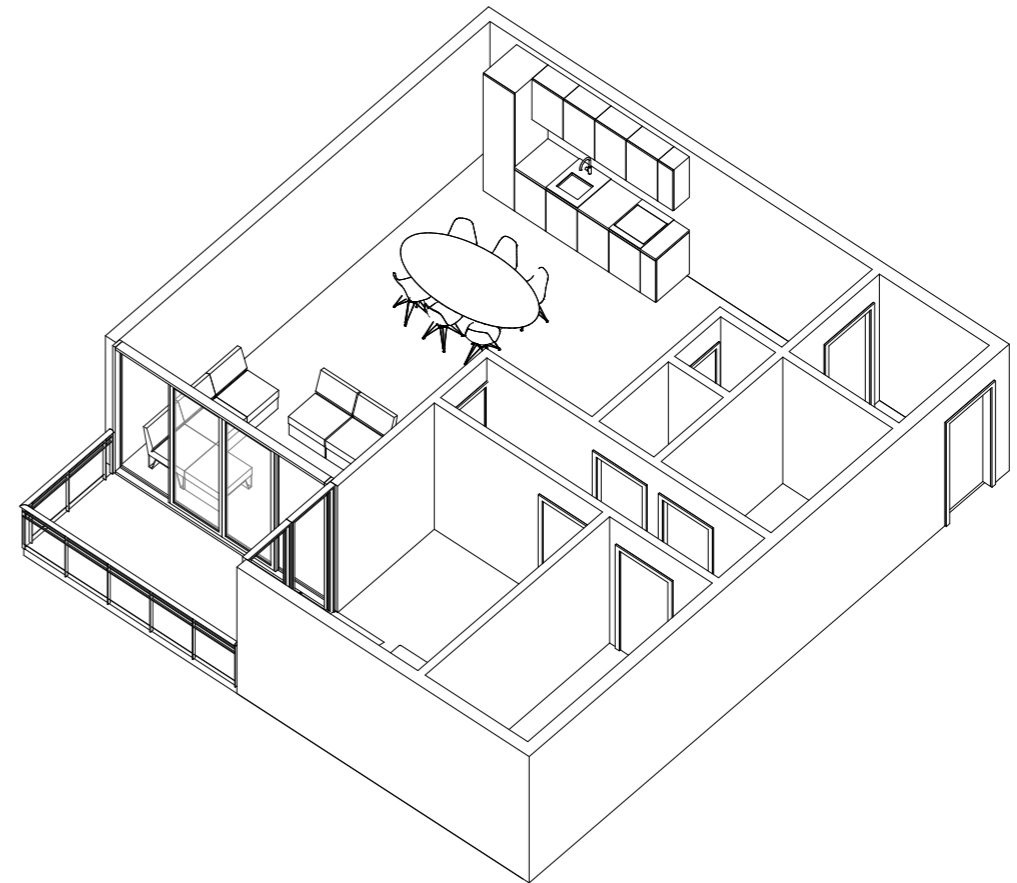
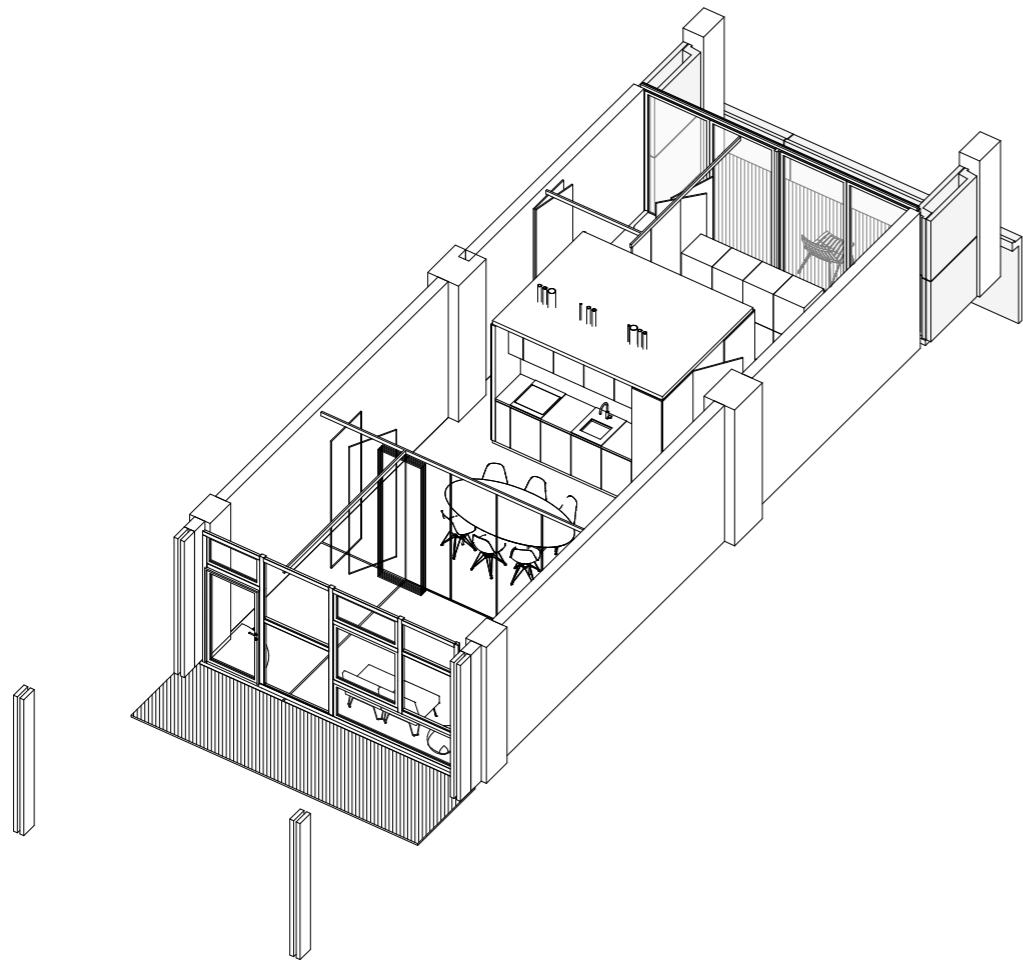
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parking in the basement

common spaces

EVALUATION



Metropolitan apartment compared to Zuidas
apartment

evaluation

EPILOGUE



