

NEGATIVE IMPACT



*local regenerative materials for urban densification,
by Bram Muller.*

introduction

local regenerative materials

modular housing concept

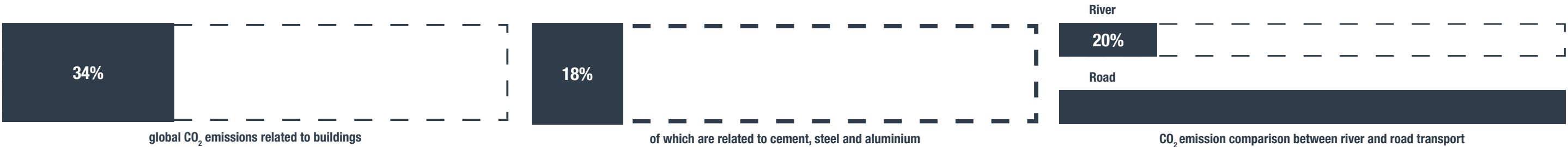
architectural design



40.000

Houses needed in Eindhoven towards 2040

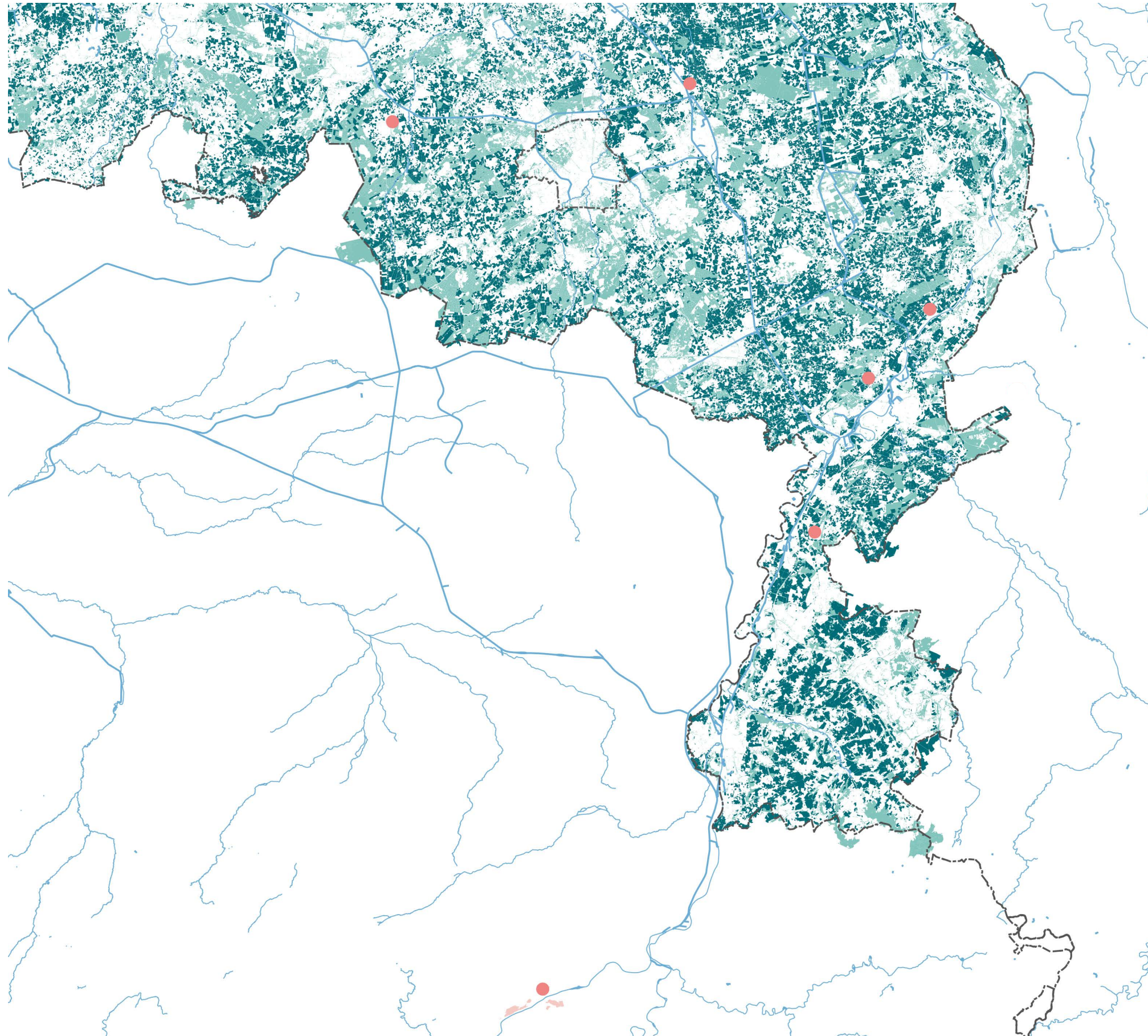






global material sourcing and distribution

*How can **local regenerative materials** be applied to sustainably densify underused urban sites,
in an industrialised modular way while enhancing local identity?*

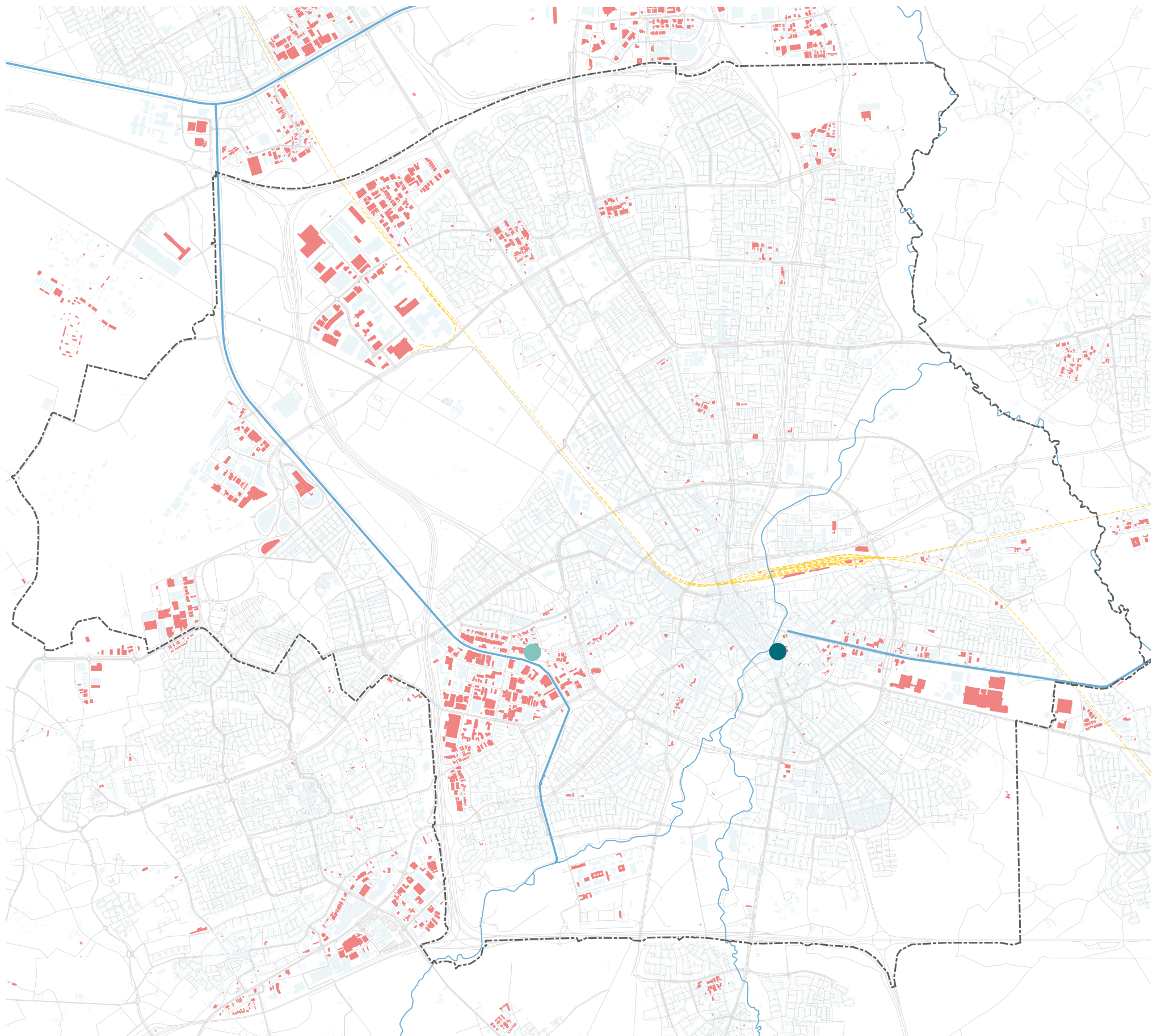




VPRO Bouwen met de Boer
(VPRO, 2024)



Douglaspār
(Wikipedia, 2007)



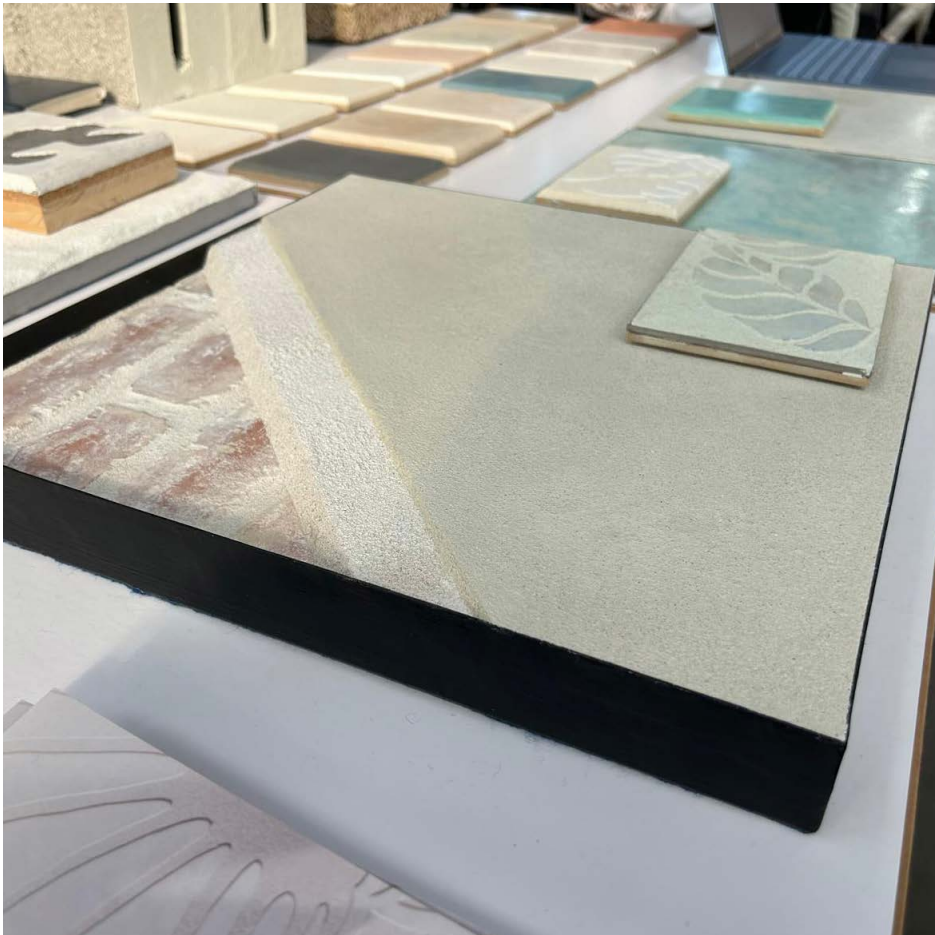
Distribution map.
(1:50,000)



Prefabrication.
(Material Cultures, 2020)



Hempcrete panel.
(AREMA, n.d.)



Lime render.
(Material Cultures Exhibition, 2026)

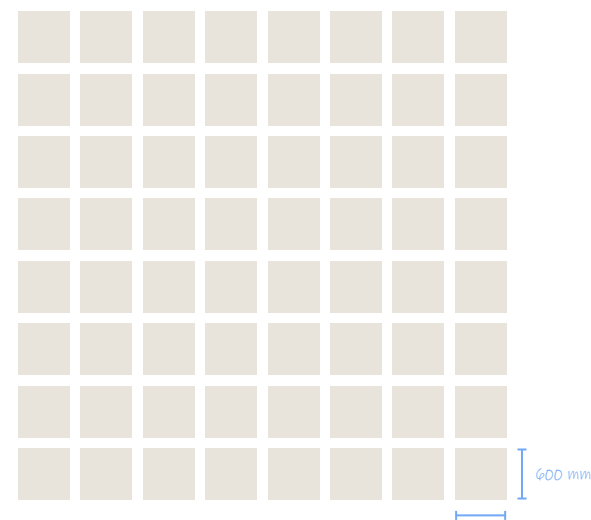


Compostboard.
(Material District, 2026)



That's caffeine tiles by Atticus Durnell.
(Material District, n.d.)

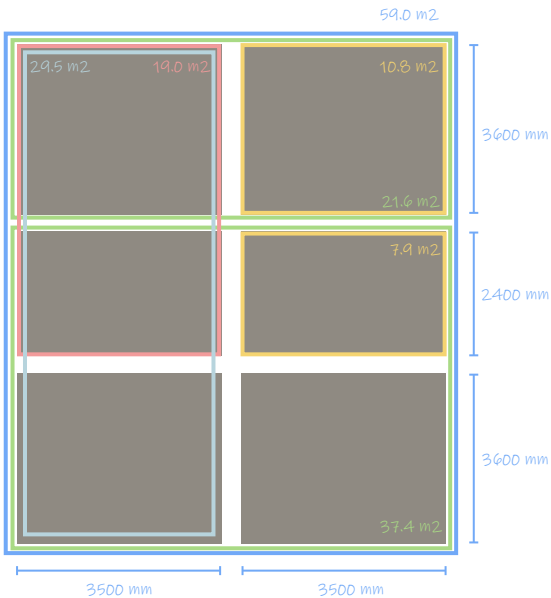
modular



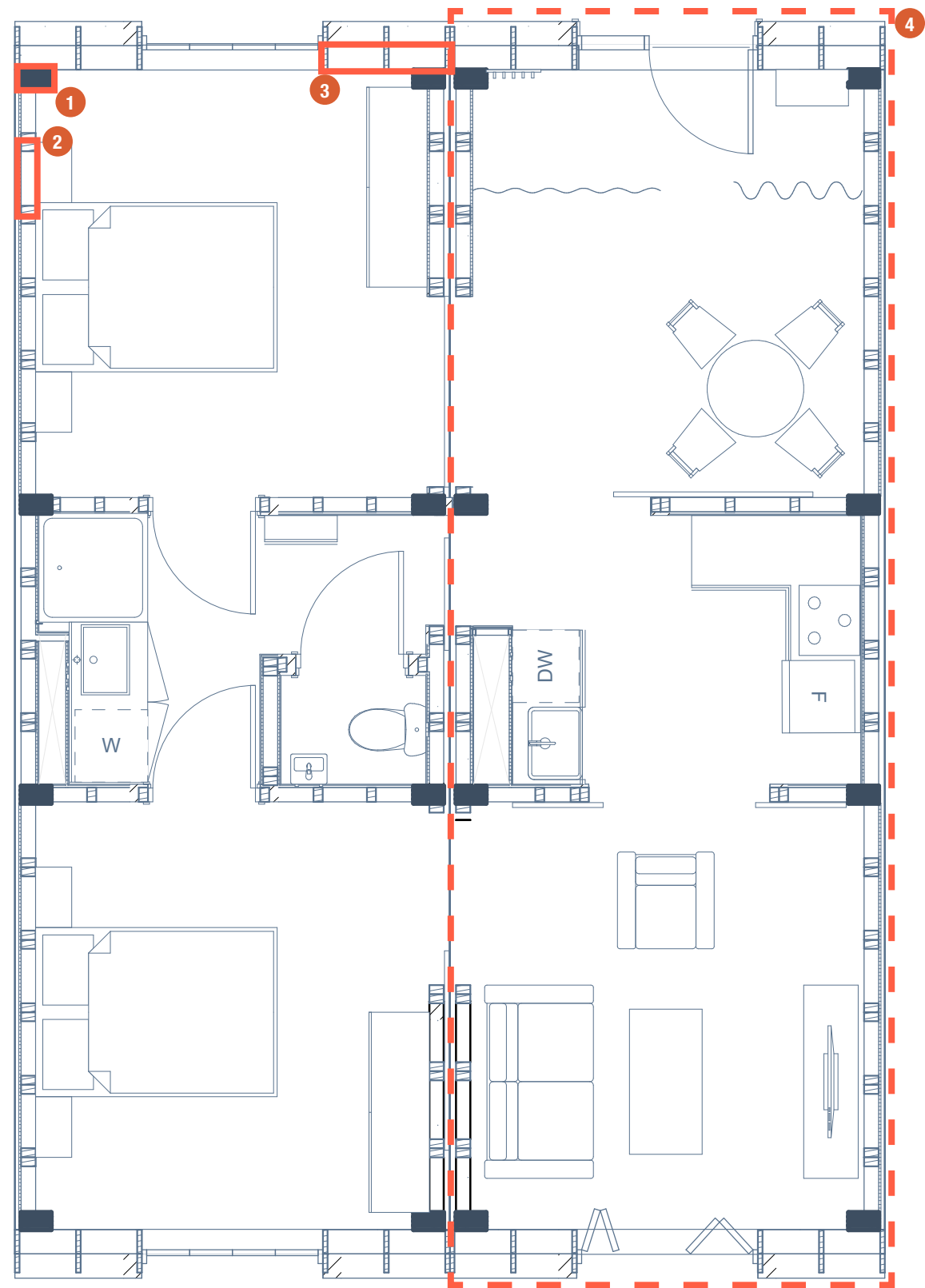
1. material based grid

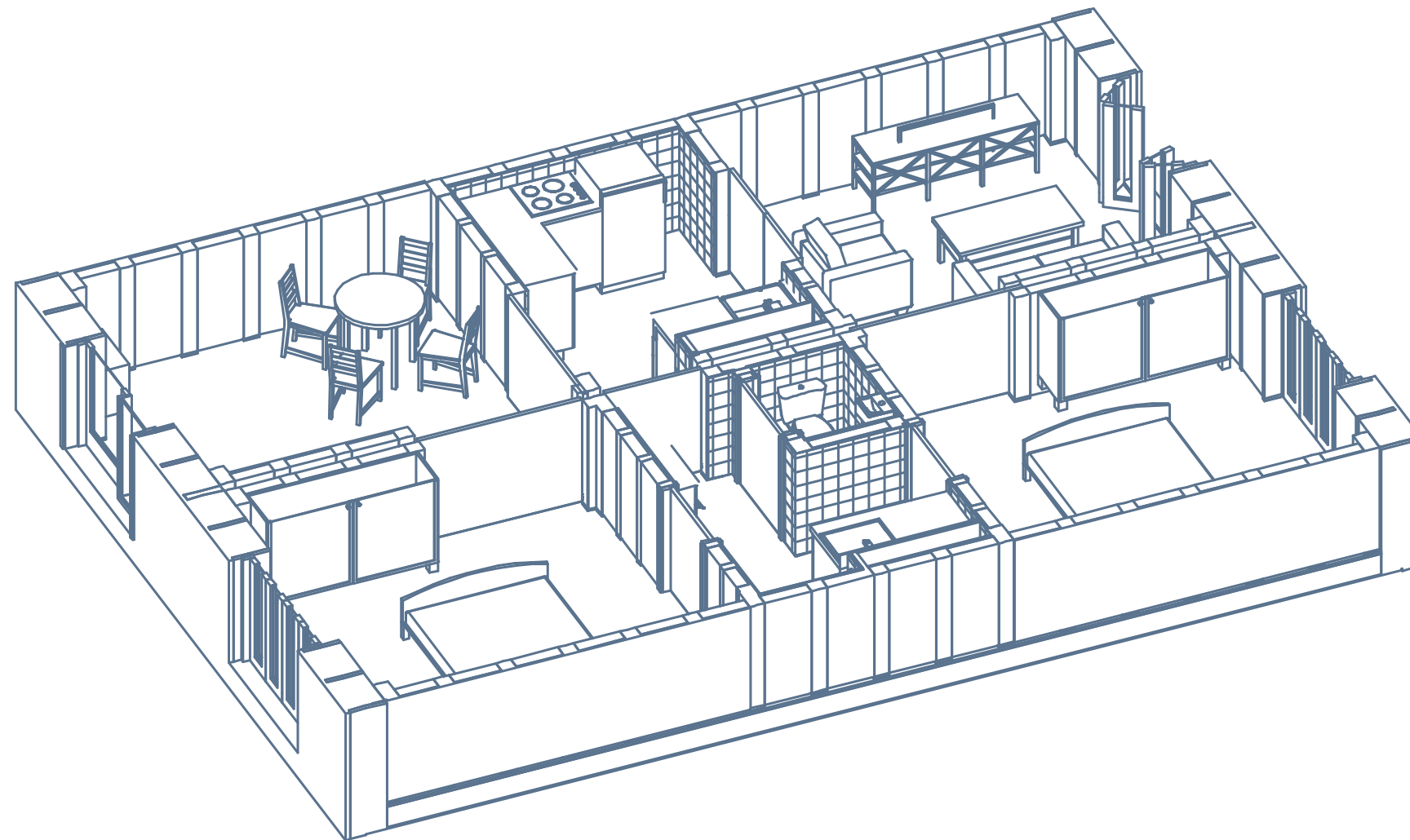


2.core and polyvalent



3. variants for 1 to 2 person households

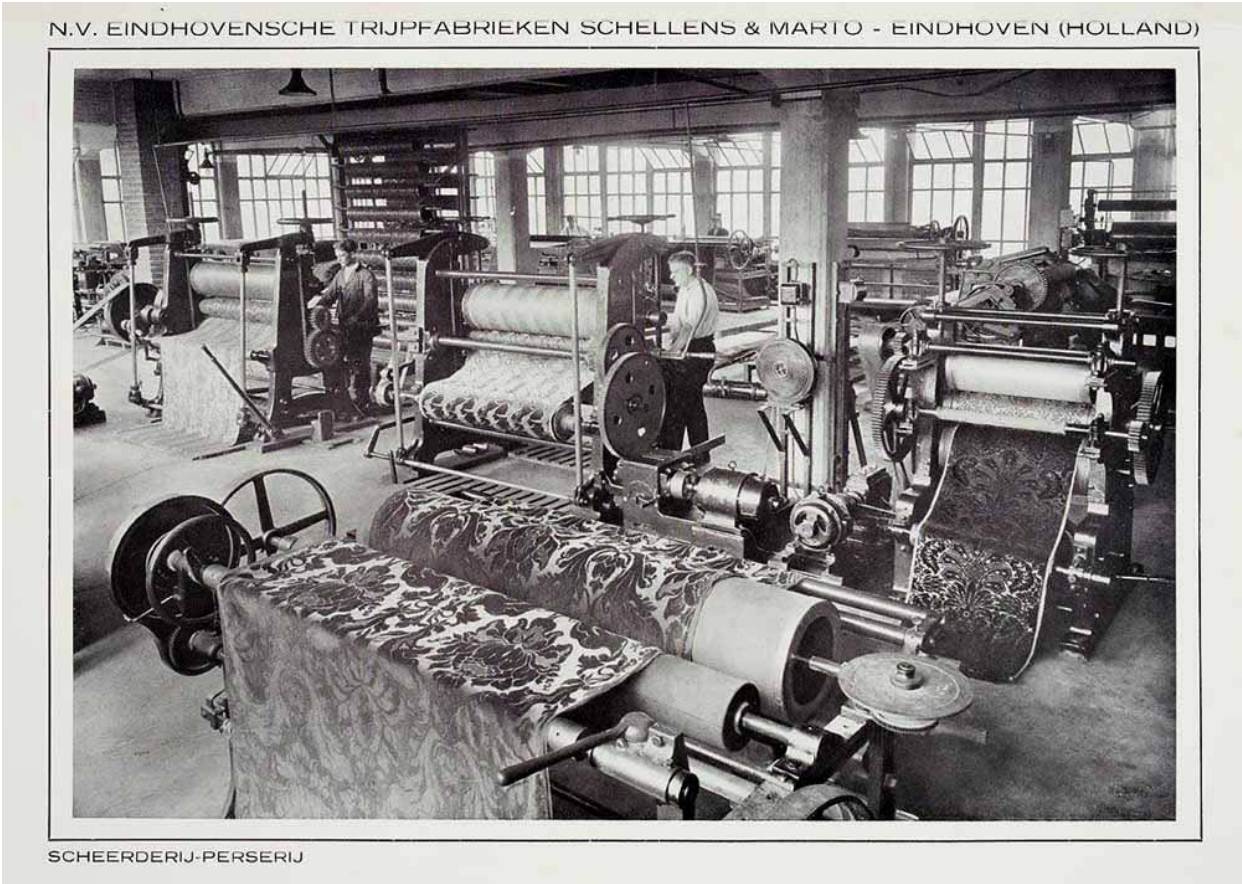




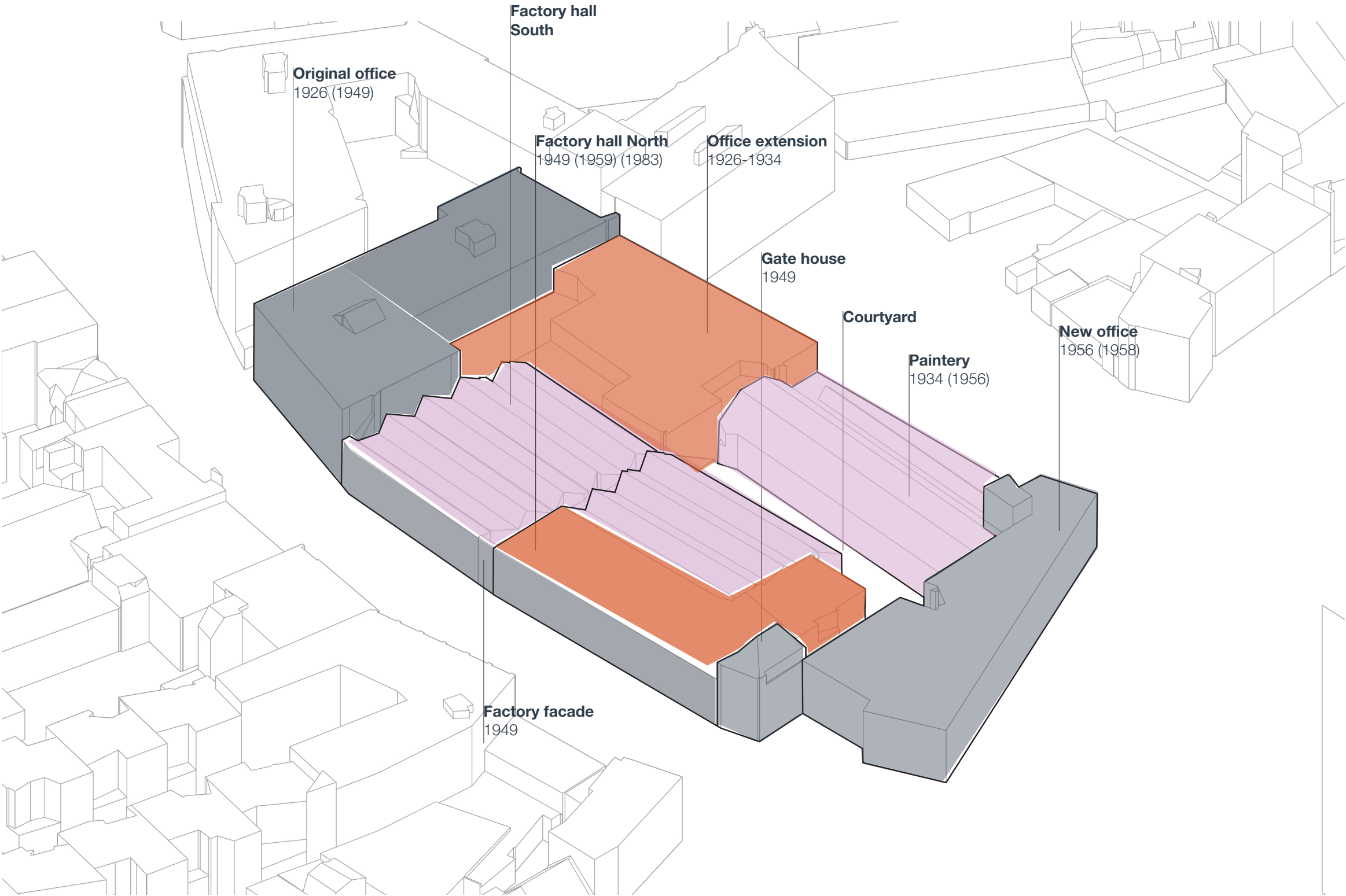


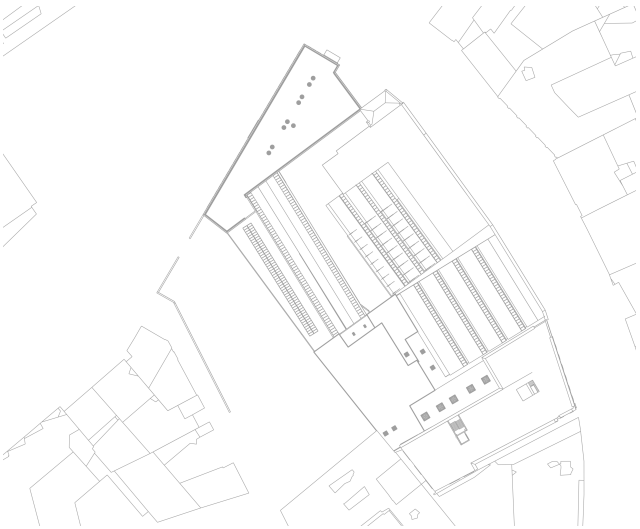
schellens fabriek eindhoven
© photo : norbert van onna

today

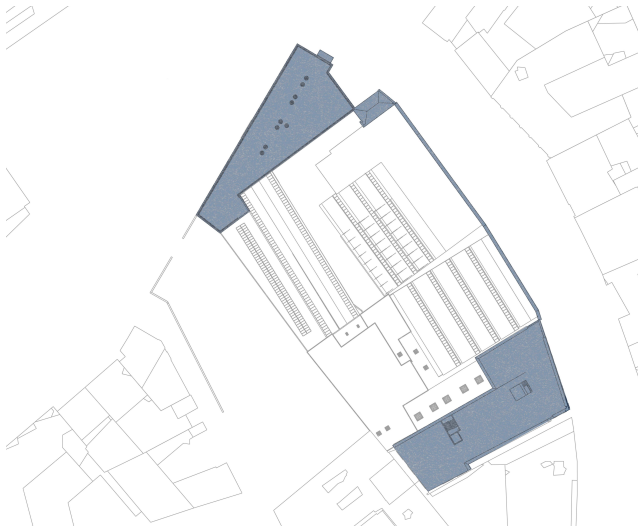


back in the day





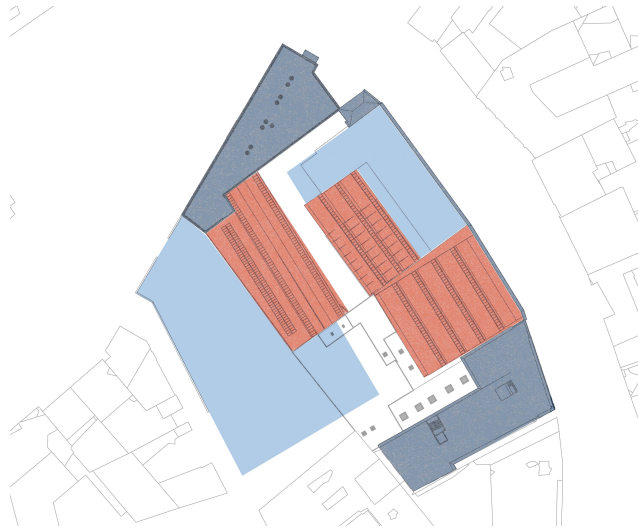
Schellens now



local identity (preserve)



positive space (rethink)



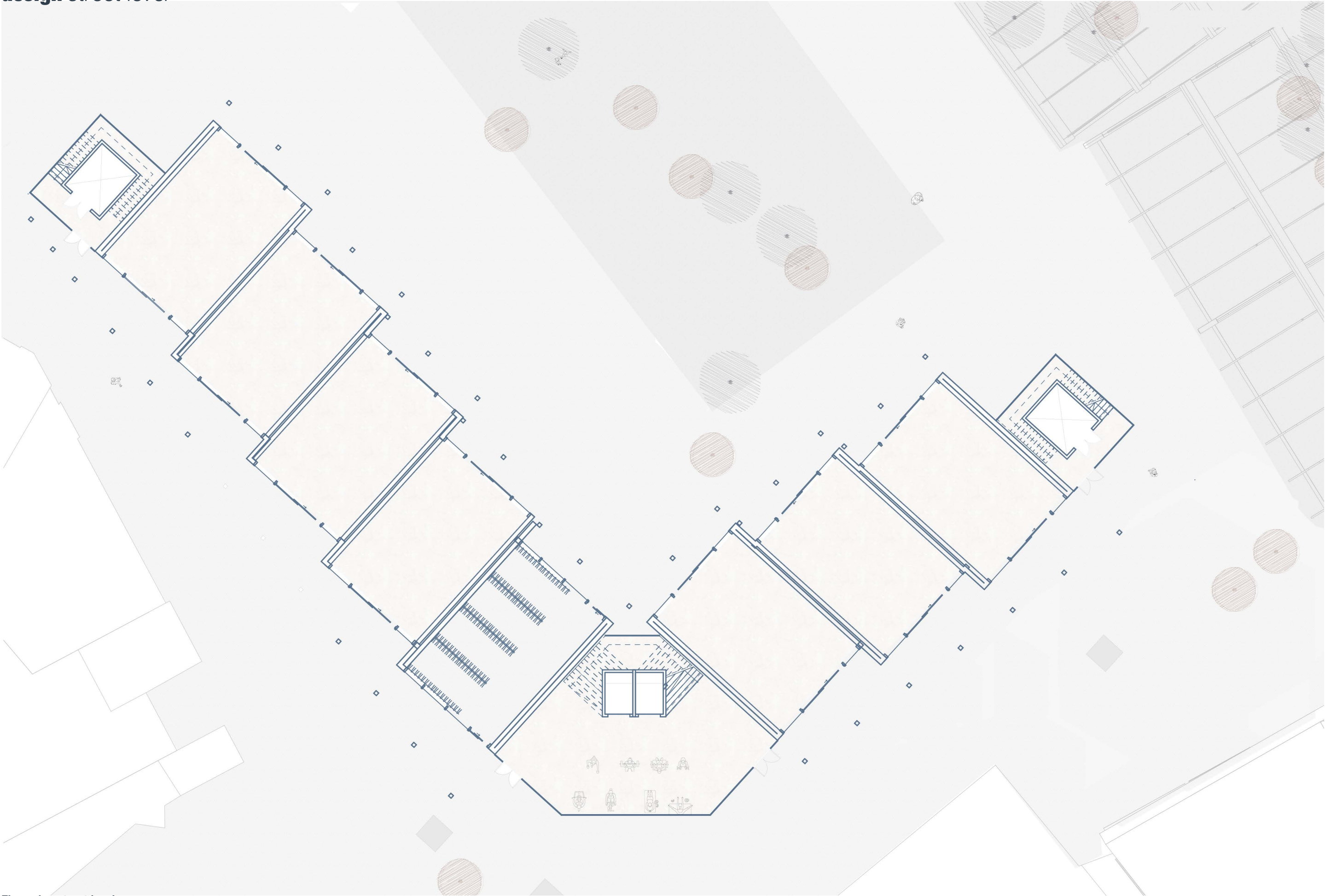
negative space (redesign)







Situation.
(1:1000)

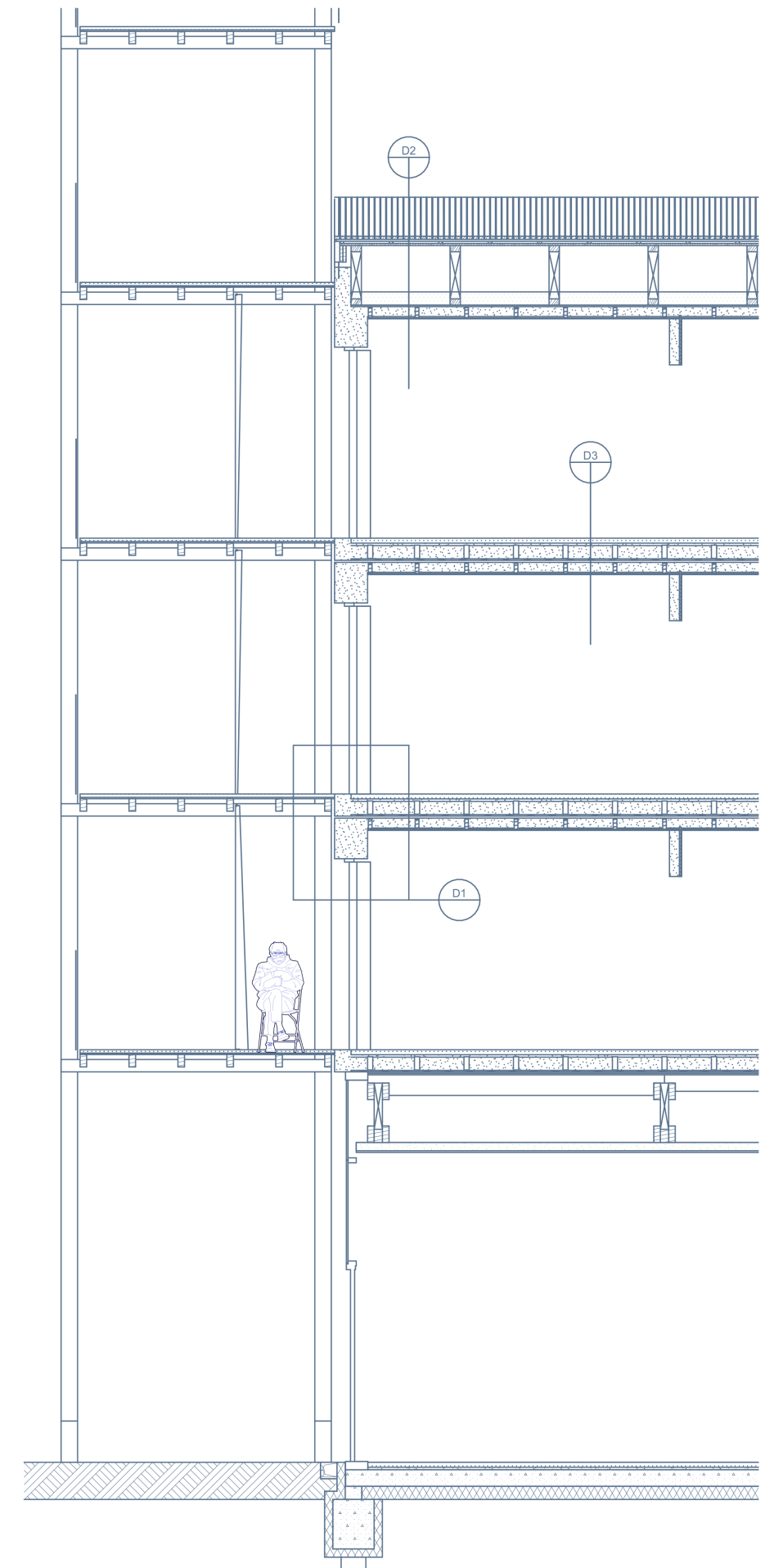


Floor plan street level.
(1:500)

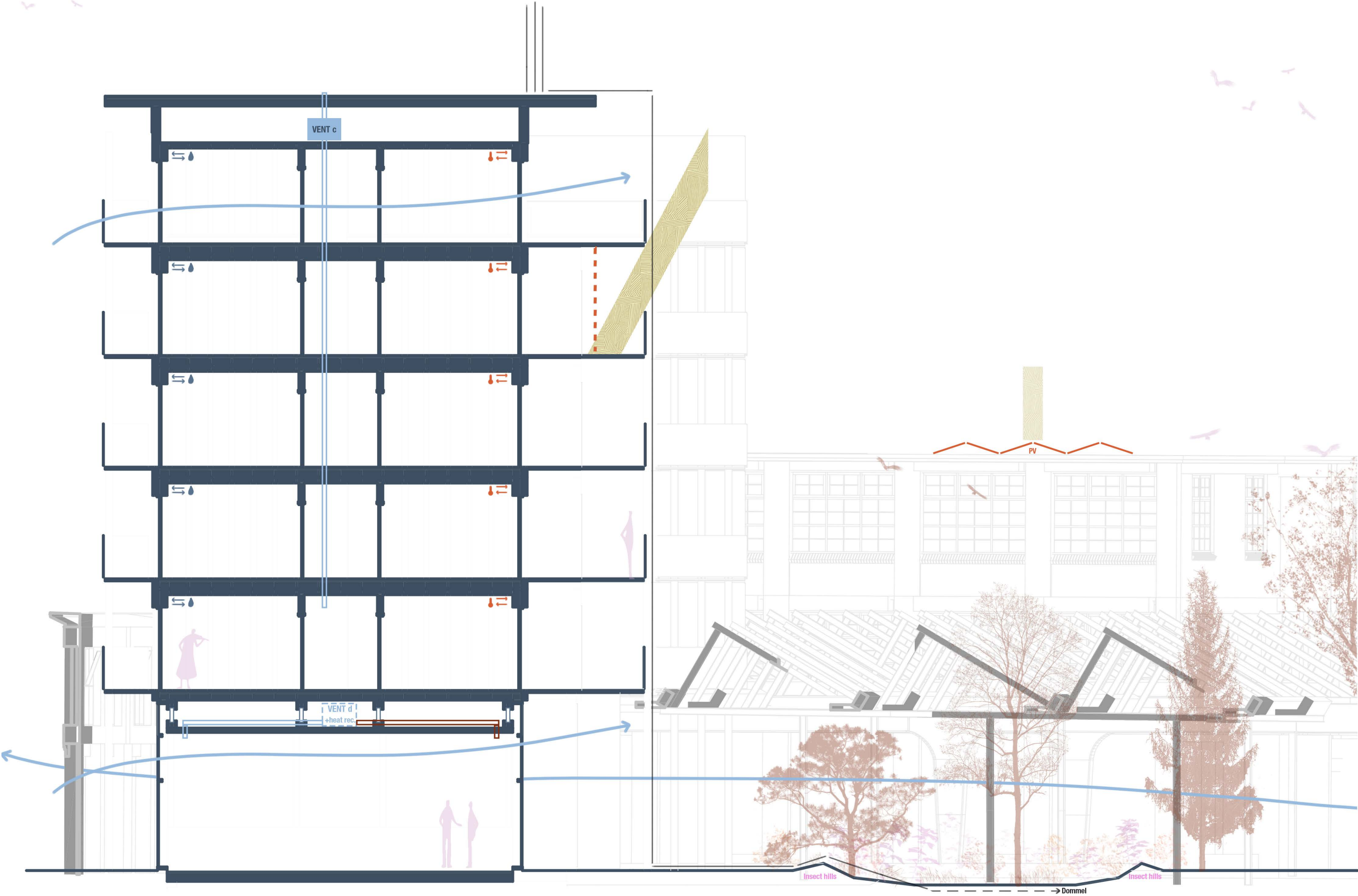


Floor plan 4th level.
(1:250)

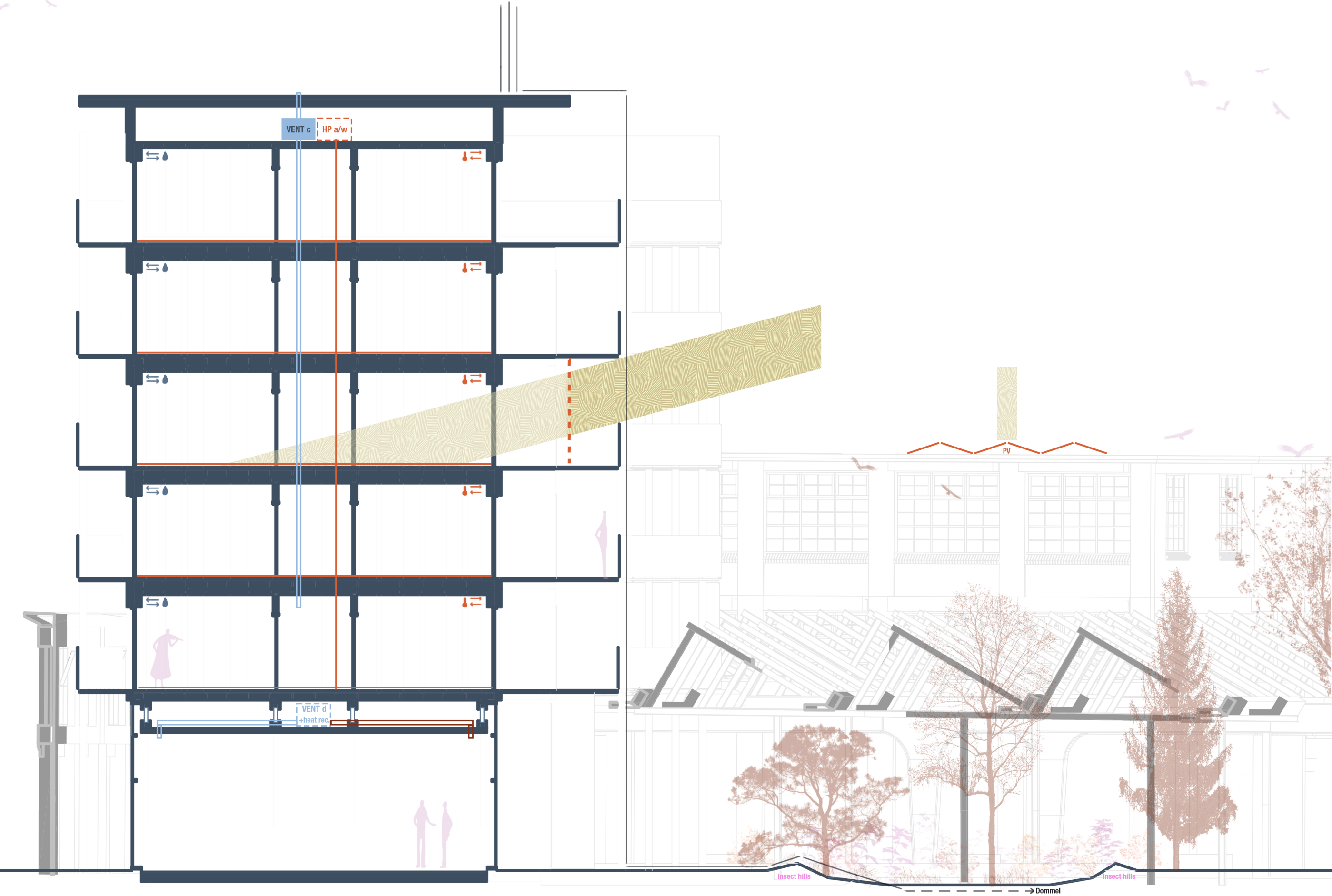
design *layered facade and gallery*



Gallery fragment.
(1:50, scaled down to 1:75)



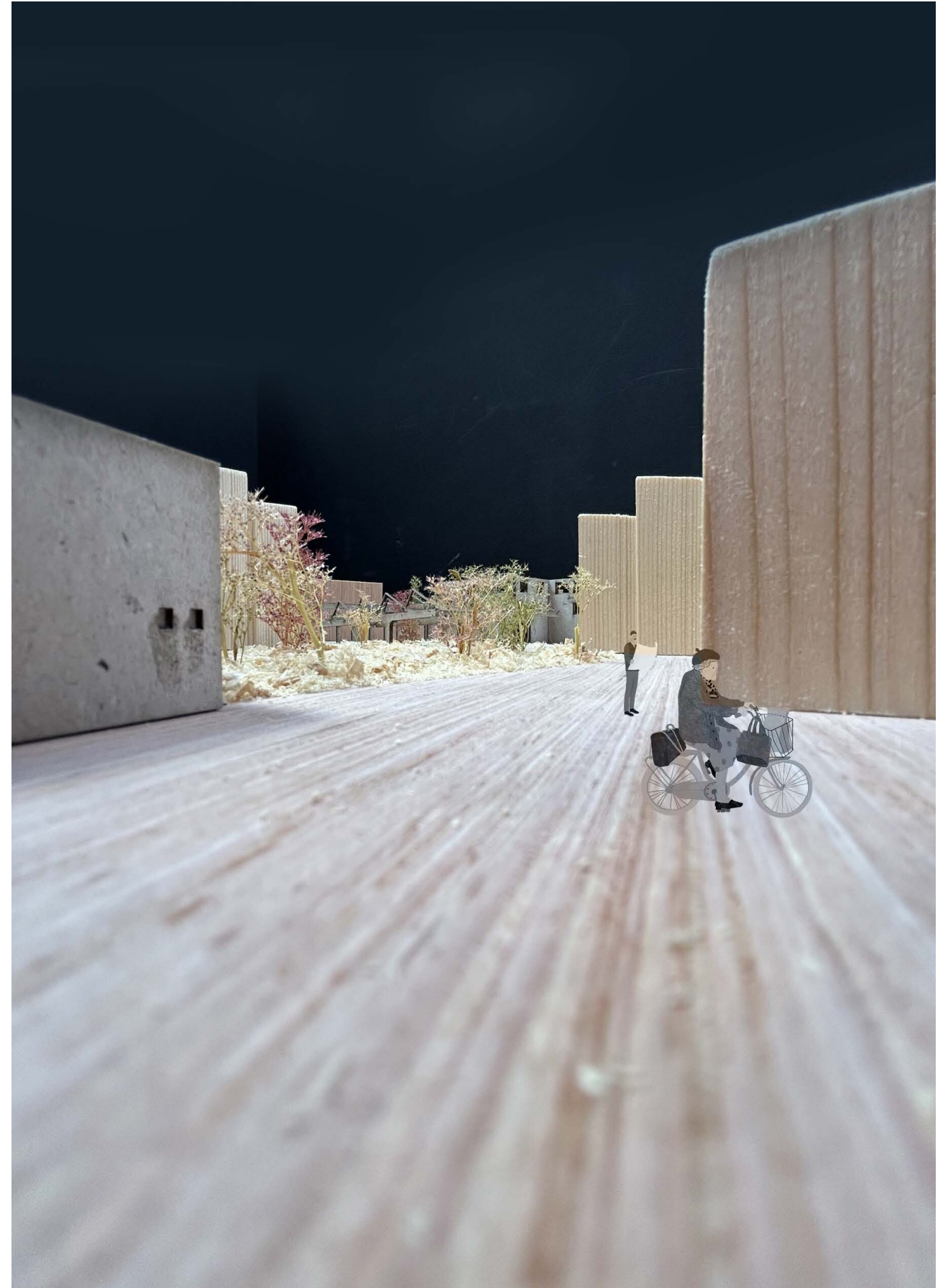
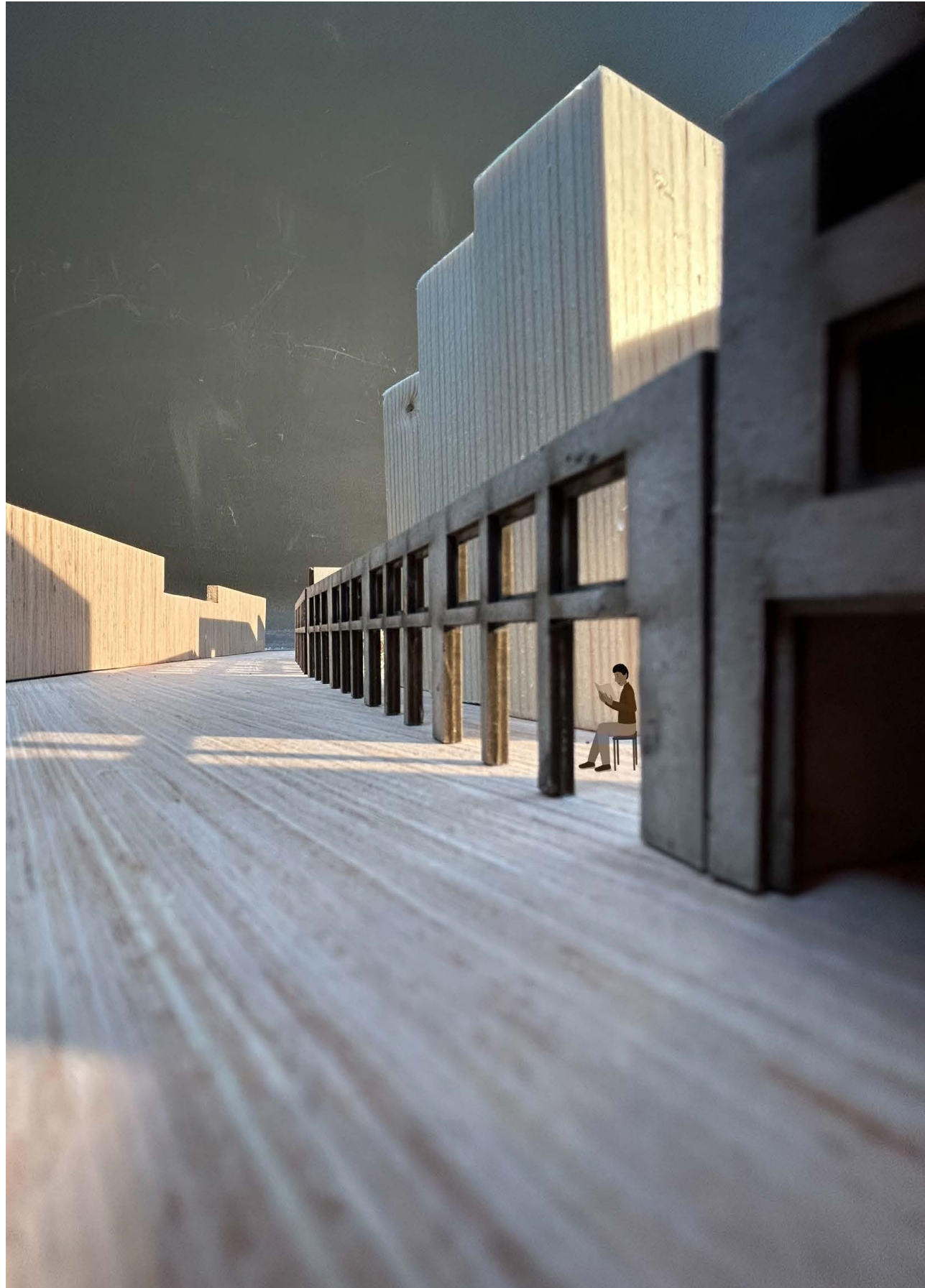
Climate section
(1:100)



Climate section
(1:100)



design approach Vestdijk & Dommel











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