

# hidden harbours: papegat

P5: revitalising hidden maritime identity  
*from urban proposal to detail & everything in between*



Marc Kremer  
20.06.25

# design location



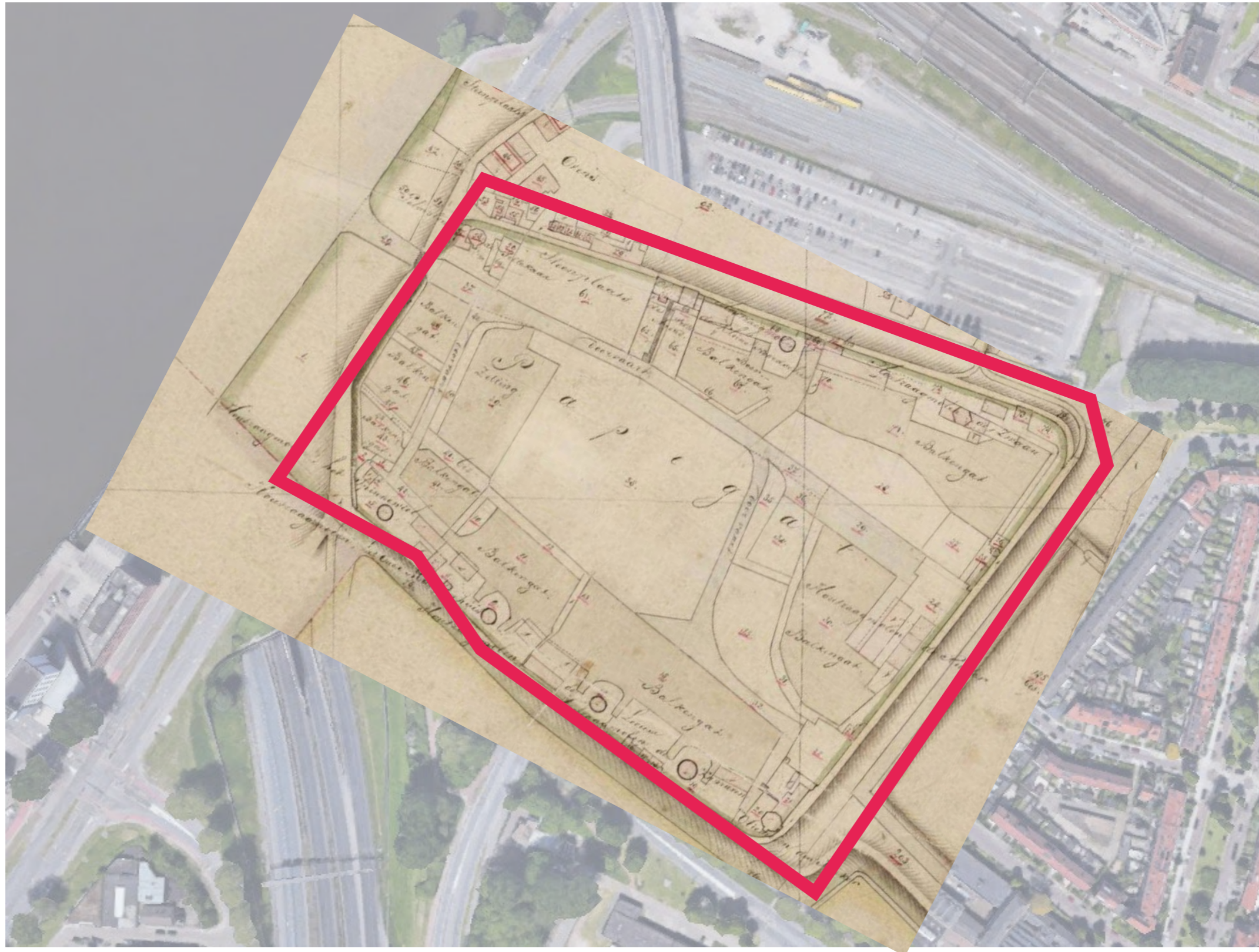
Papegat in context Google Maps 2025

# papegat



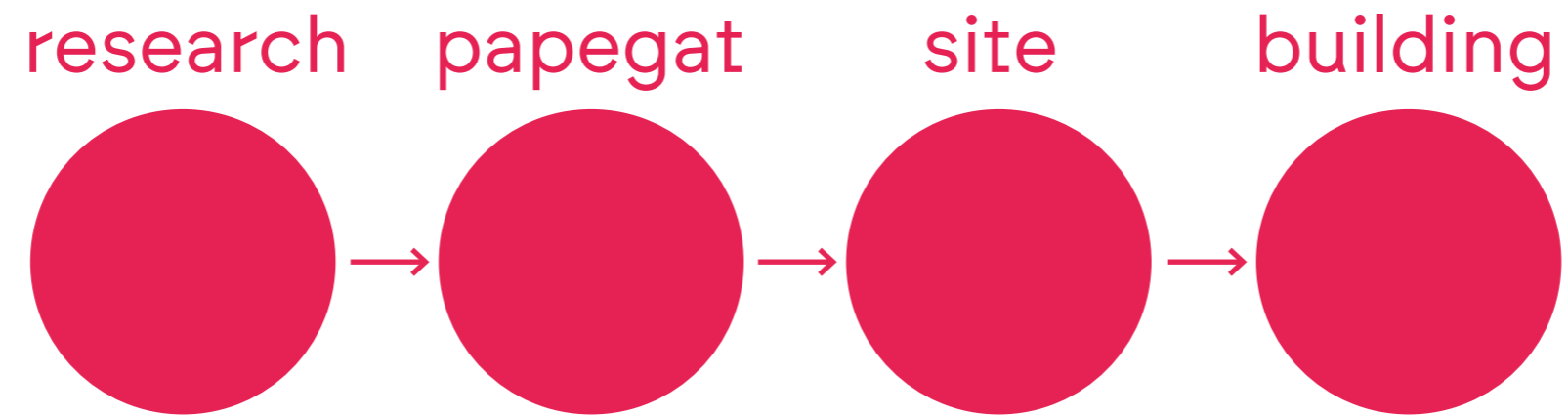
Papegat Google Maps 2025

# hidden harbours



Minutplan Papegat 1832 Nationaal Archief

# contents



research ● ● ●

# goal

*explore various design strategies for revitalising former  
small-scale harbours and reinforcing maritime identity  
in the Water Triangle area*

# elements

introduction

**historical  
development**

maritime  
identity

strategies

**urban**

**harbour area**

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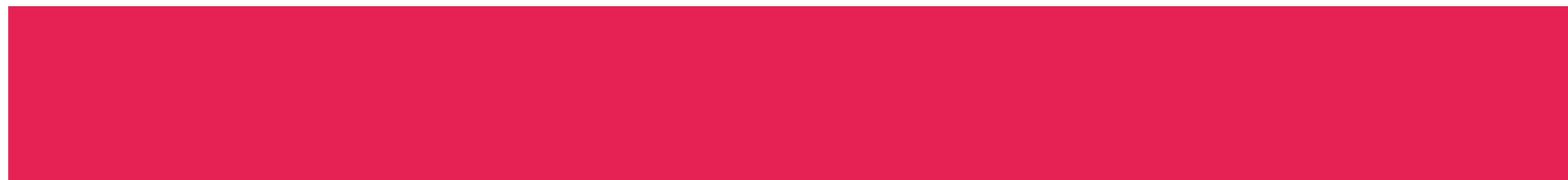
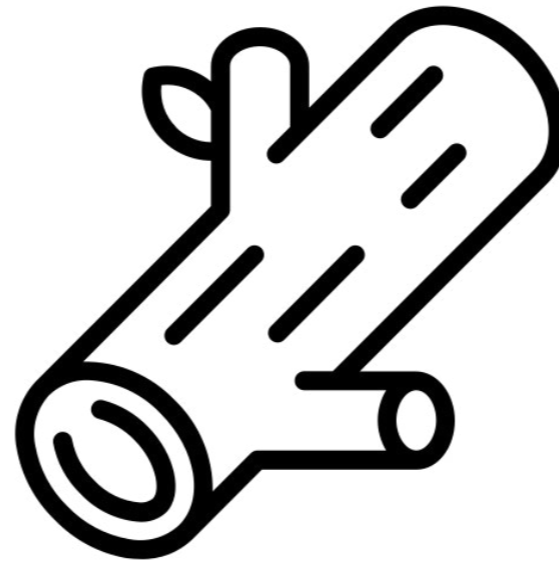
**building & material**  
*reference case  
kristiansand*

contextualisation

**generalisation  
papegat**

# historical development

1600-1850



# historical development



Dordrecht 1558 Jacob van Deventer (oudekaartendordrecht.nl)

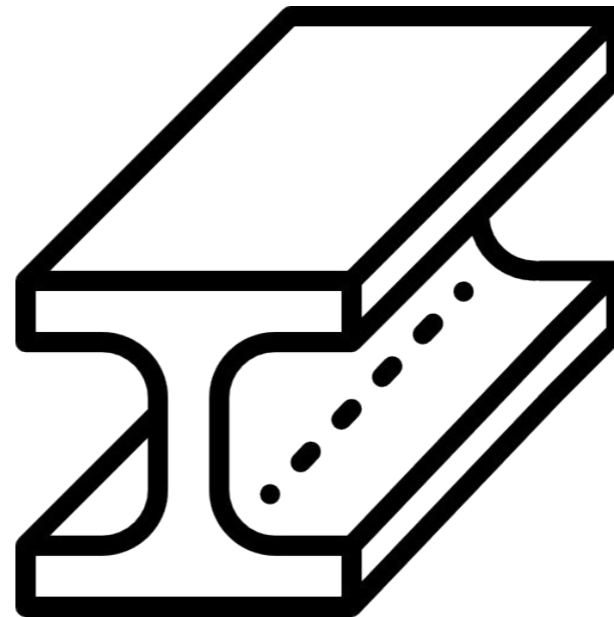
# historical development



Nederlandse Zeehavens J.P. Sigmund 1989

# historical development

1850-1970



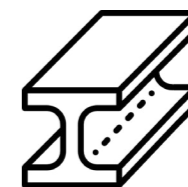
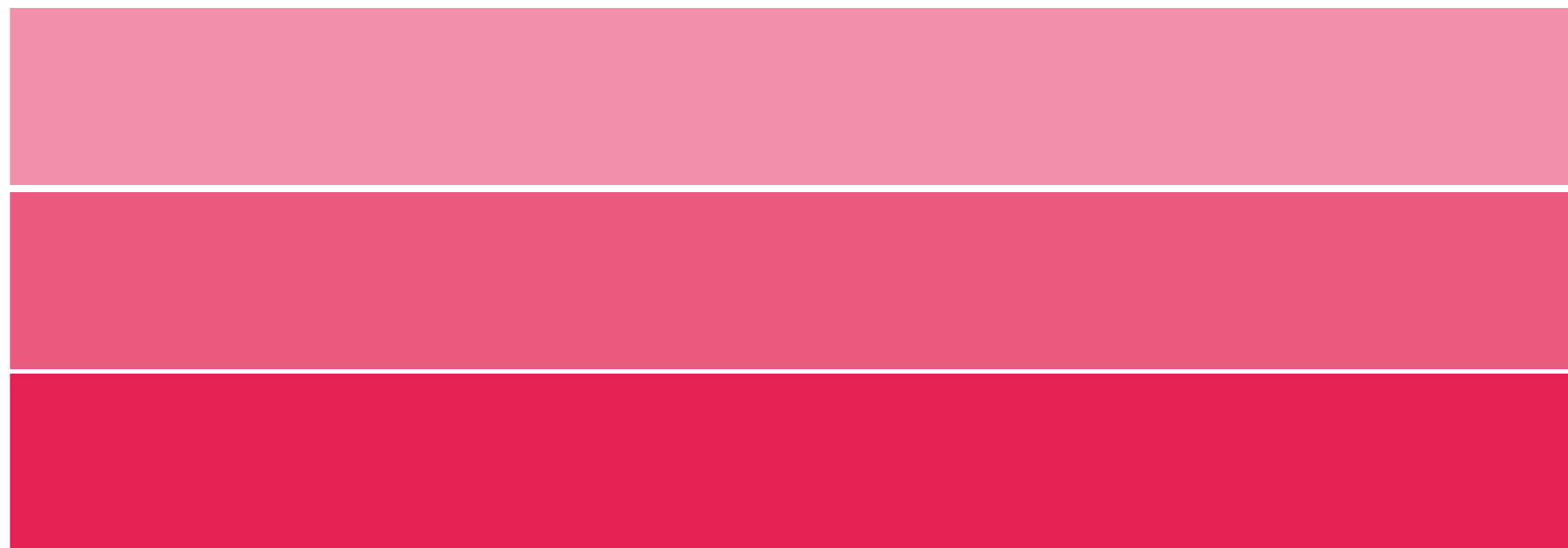
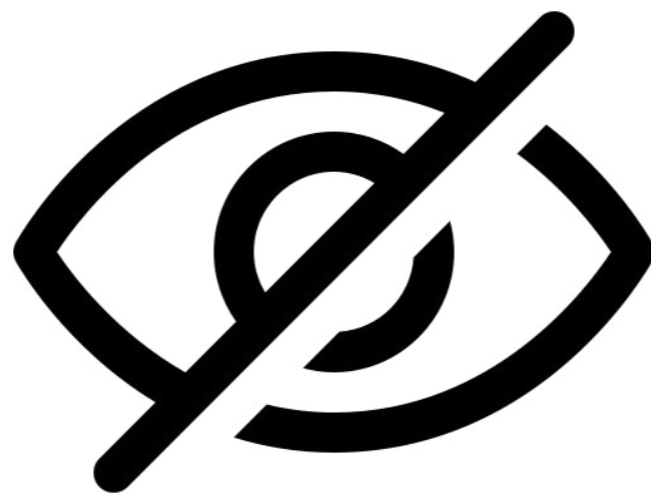
# historical development



Reg. Arch. Dordrecht 737\_1352

# historical development

1970-current



# historical development



# historical development



# future development



**Maasterras** Mecanoo Architects, Municipality Dordrecht (2024)

# conclusions

## Urban

- Remove the border between maritime heritage structures and the urban context and reconnect to the water.
- Broaden the water-land zone.
- Reintroduce water structures or their outlines

## Harbour

- Landscape approach: integrating multiple objects in a larger scheme.
- Organic 'anchor' developments
- Rule-based developments
- Reconnecting heritage traces and identity.

## Building & Material

- Adaptive reuse
- Using reclaimed materials

# conclusions

Krieger about balance between preservation and reinvention:

*the tactics of urban planning should be like that of tide; "scouring, reshaping, yet miraculously sustaining the shore" (p.181).*

# implementation

## Urban

former water outline  
reconnecting water  
broaden land-water zone



# implementation

## Harbour

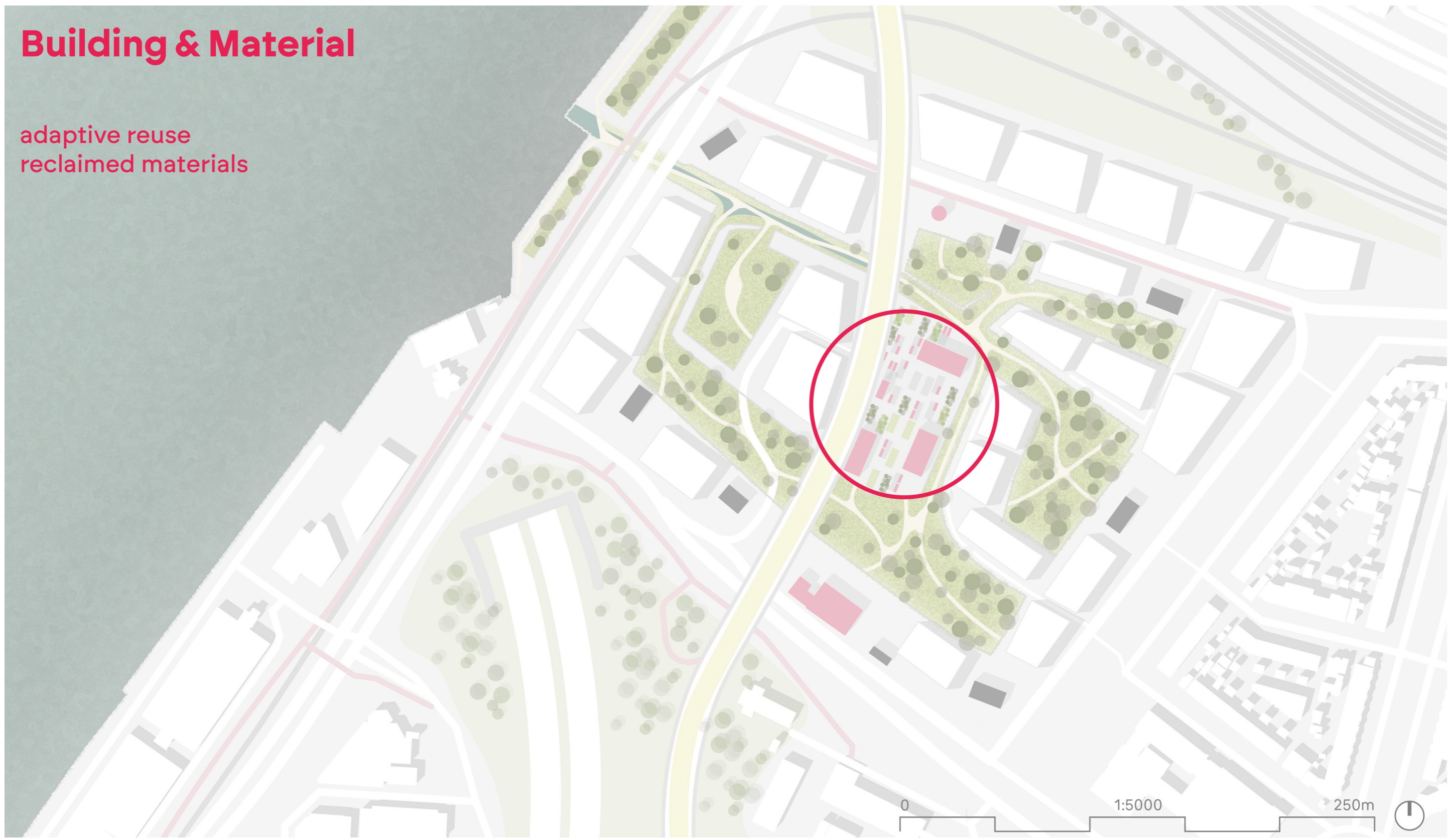
landscape approach  
central 'anchor' + rules  
reconnecting heritage



# implementation

## Building & Material

adaptive reuse  
reclaimed materials



# urban proposal

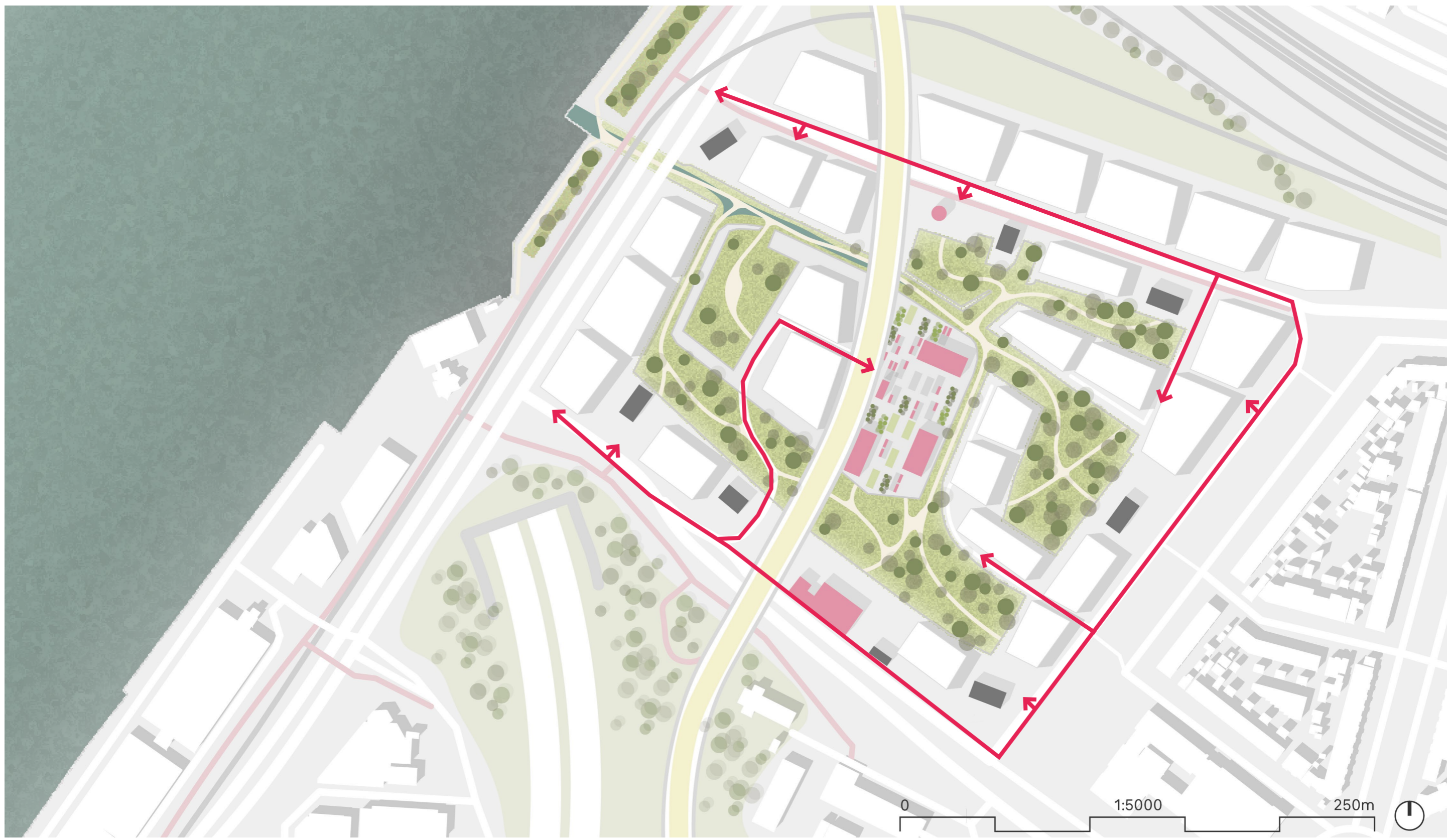




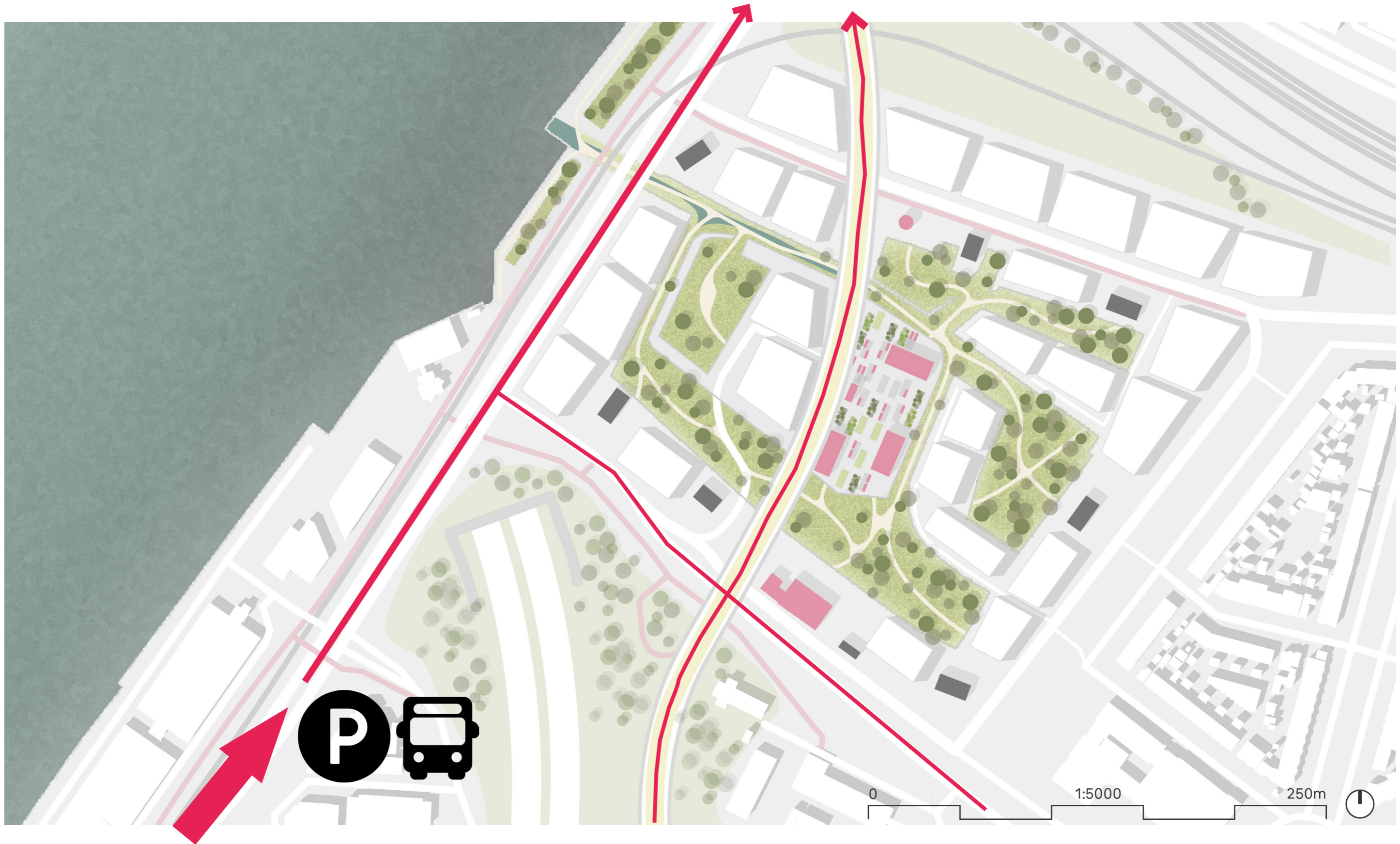
# functions



# access

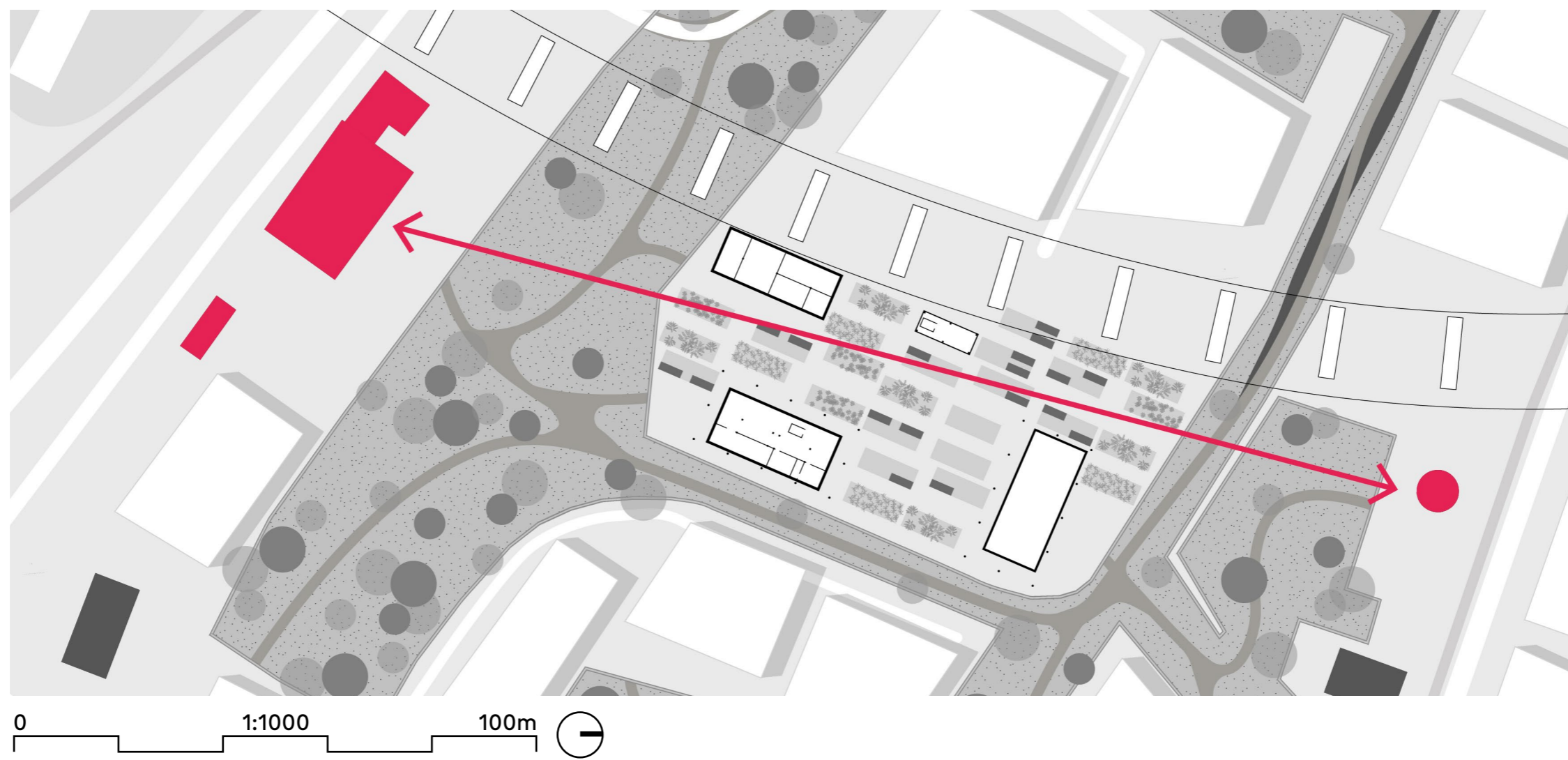


# traffic & transport





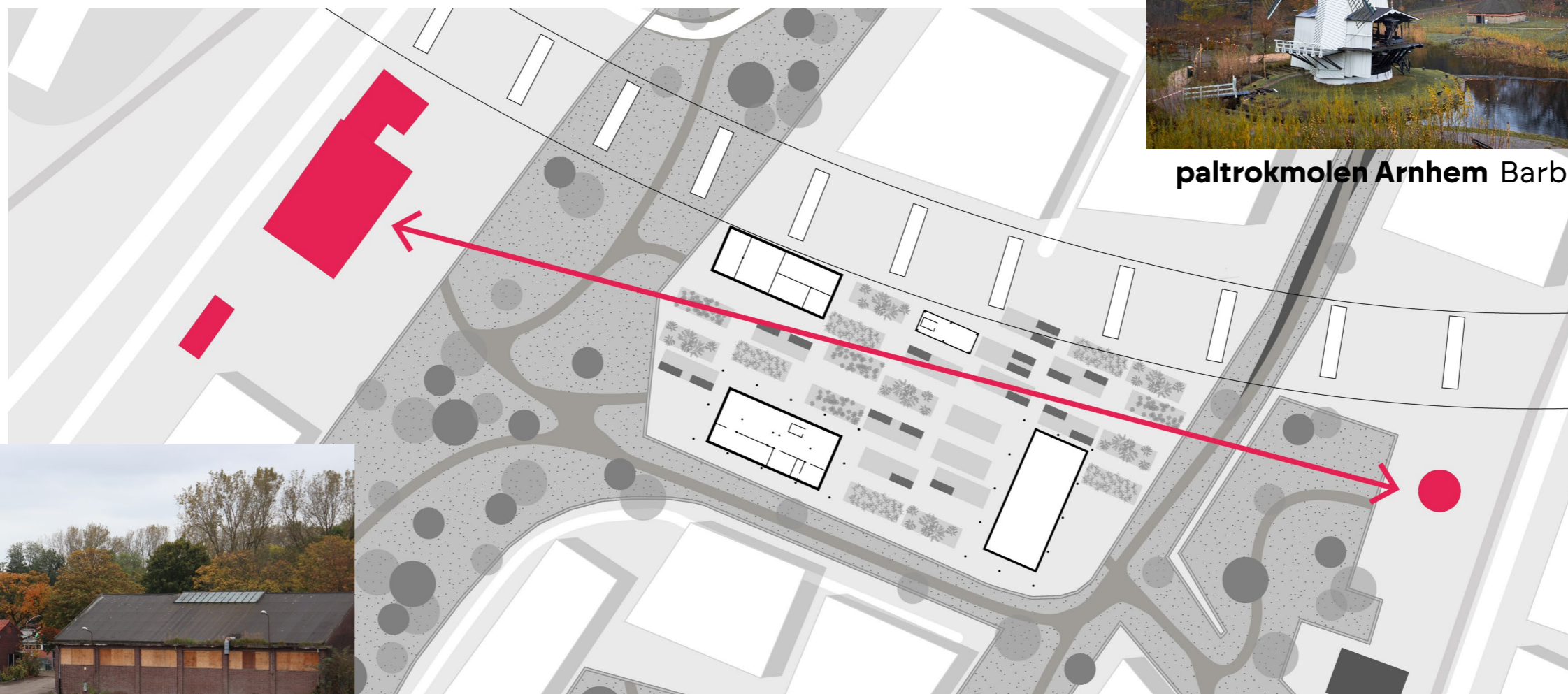
# connection



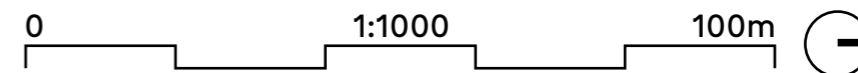
# connection



paltrokmolen Arnhem Barbra Verbij



remaining hall Marc Kremer



# connection



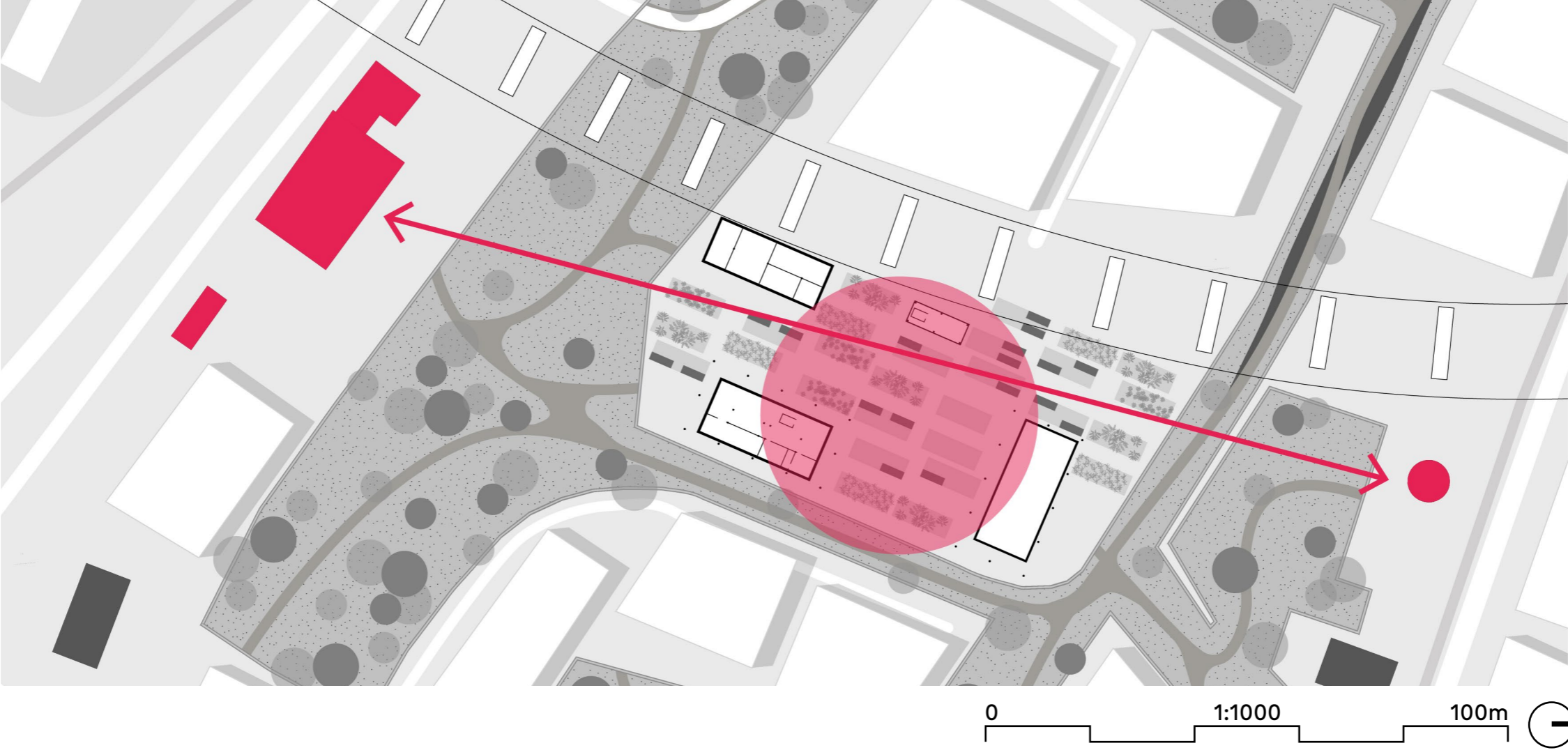
remaining hall Reg. Arch. Dordrecht

# connection



**de vlasbloem** Reg. Arch. Dordrecht

# challenge



# timber drying stacks



**timber stacks Papegat**  
Reg. Arch. Dordrecht

# timber drying stacks

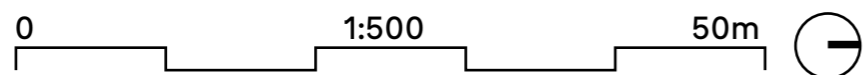
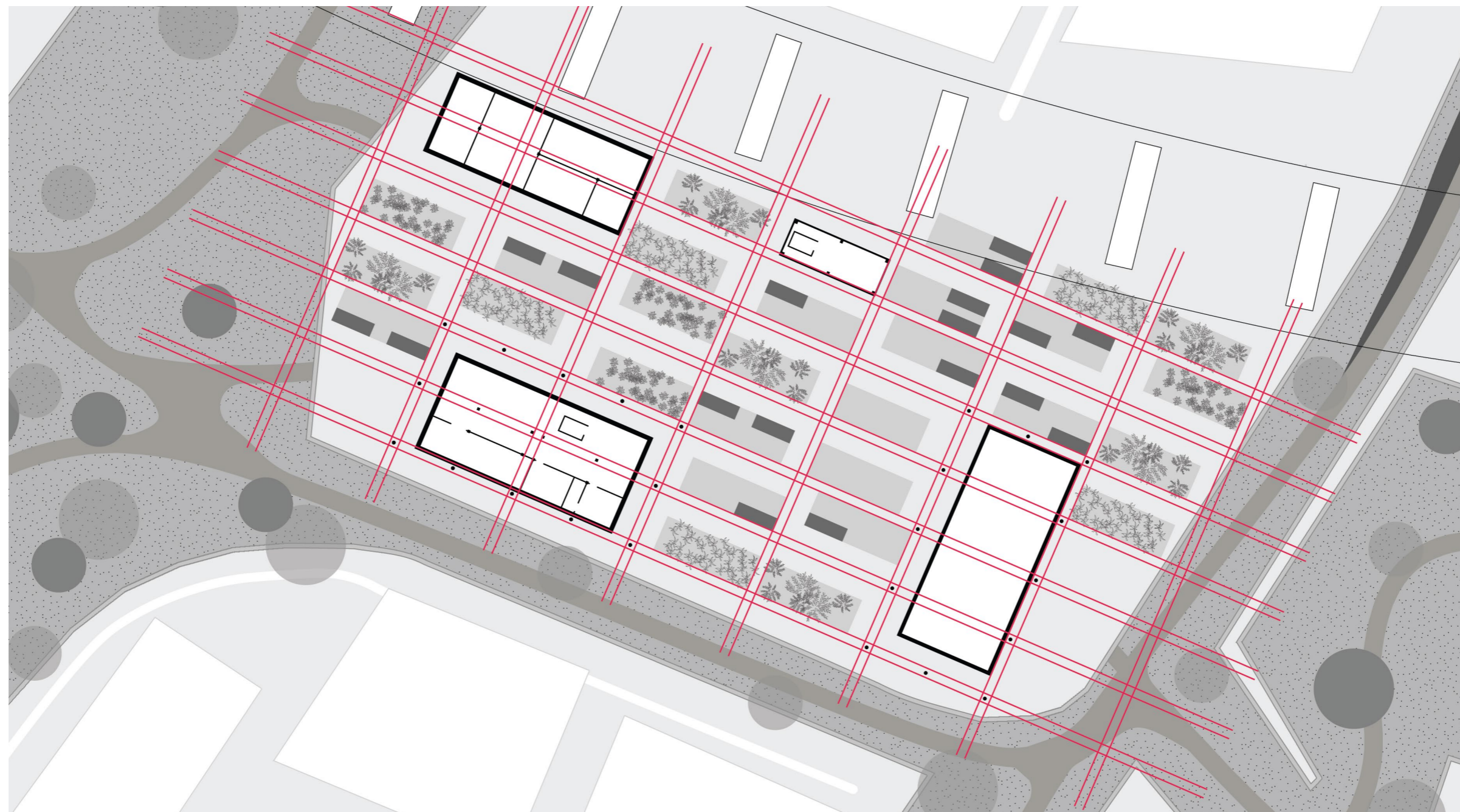


**timber stacks Rotterdam**  
Reg. Arch. Dordrecht

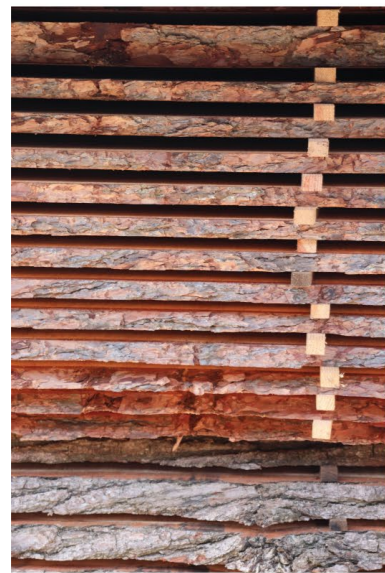


**Wood stacks 1700s**  
Reg. Arch. Dordrecht

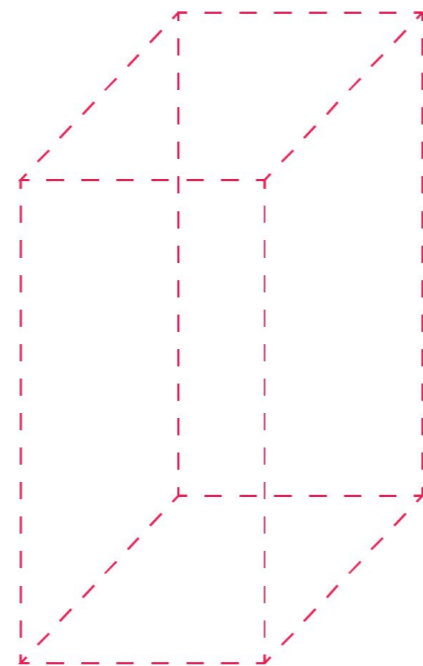
# guides



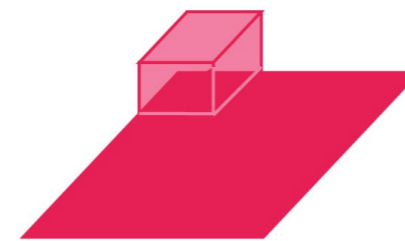
# volumes



drying stacks



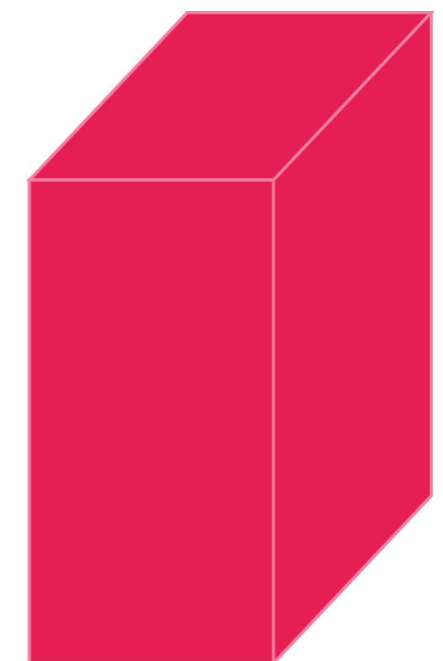
abstract volume  
4x11m



empty + seating

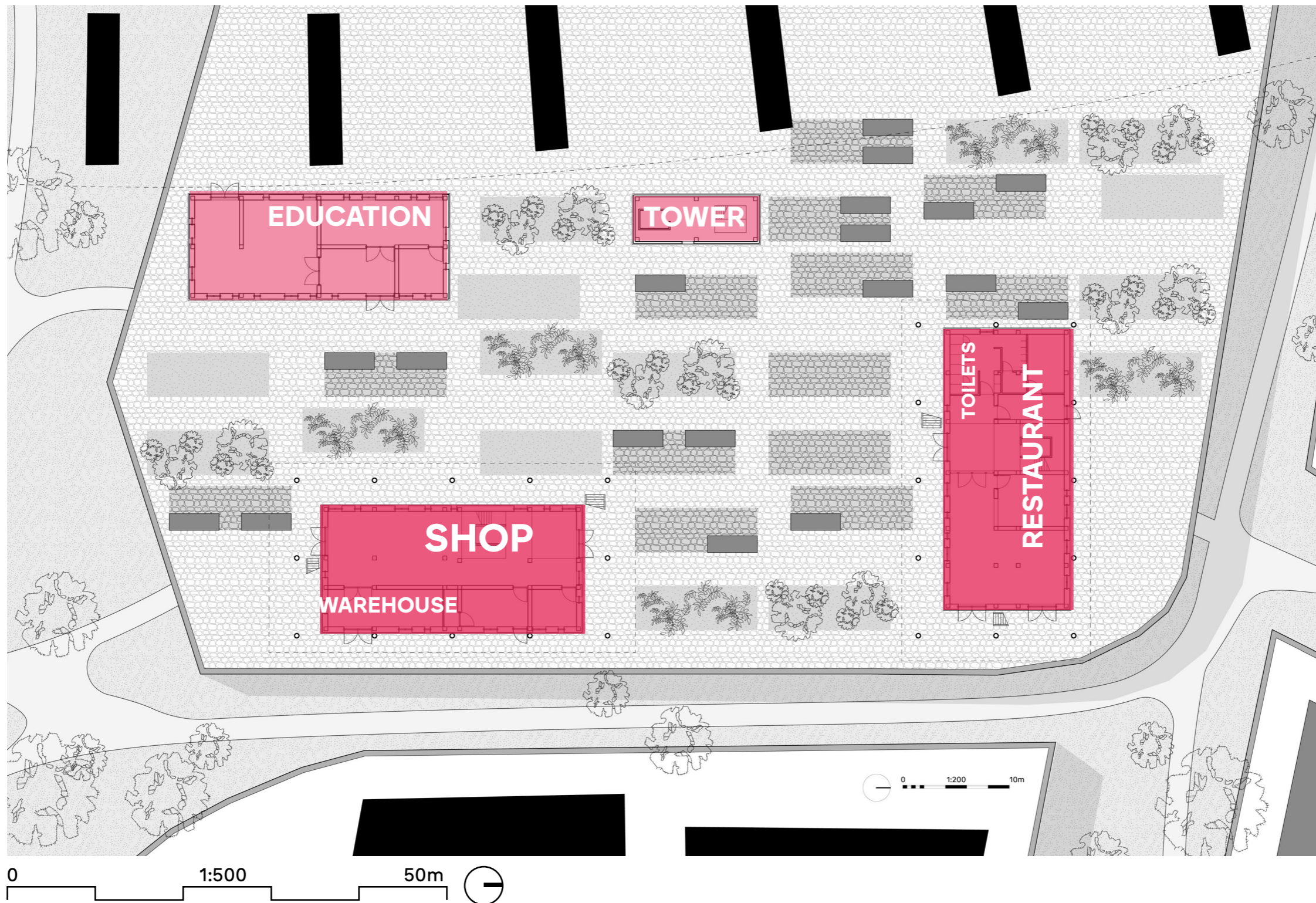


landscaping



buildings  
(joined/canopy)

# functions



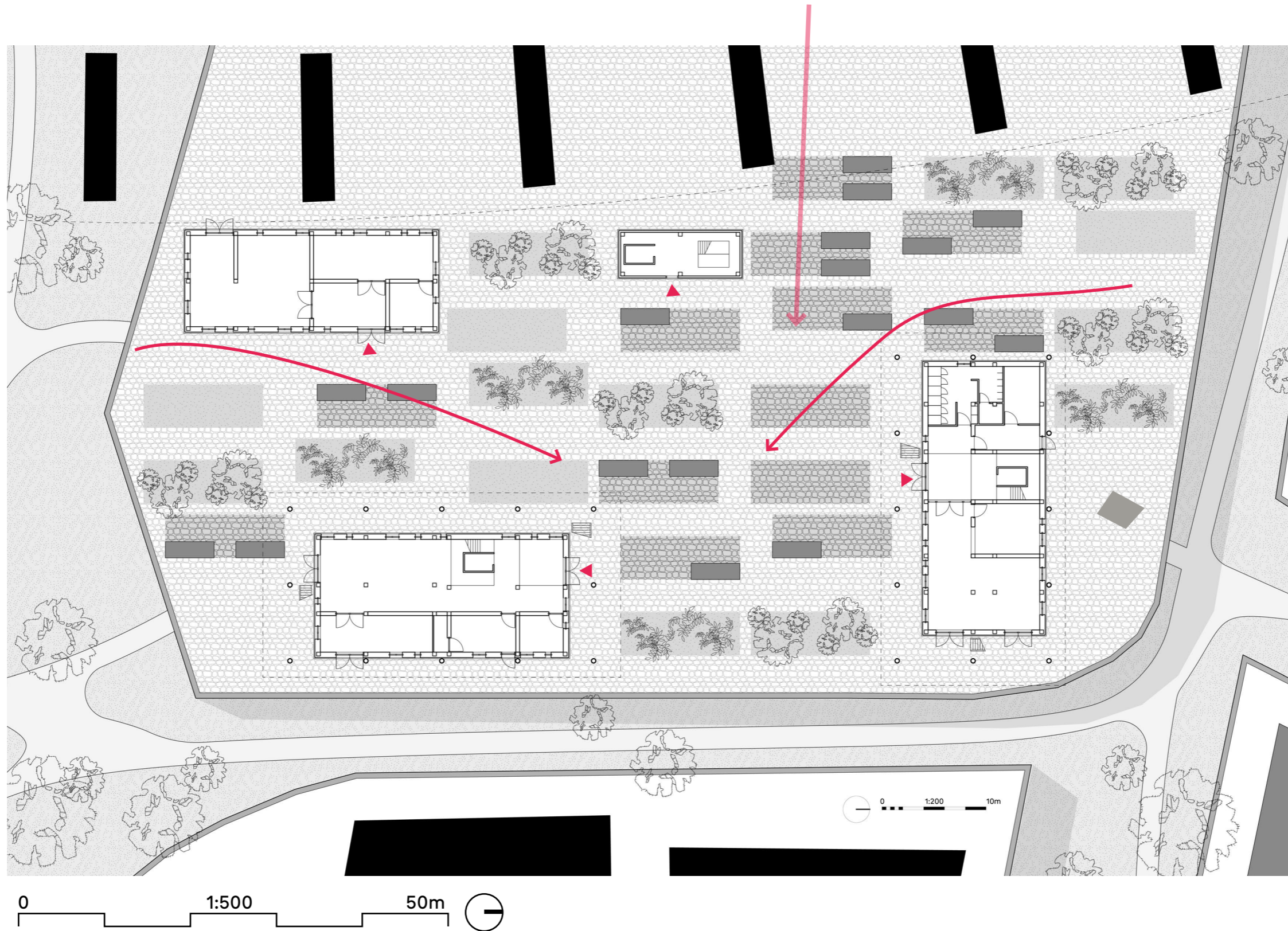
# functions



# interaction



# access







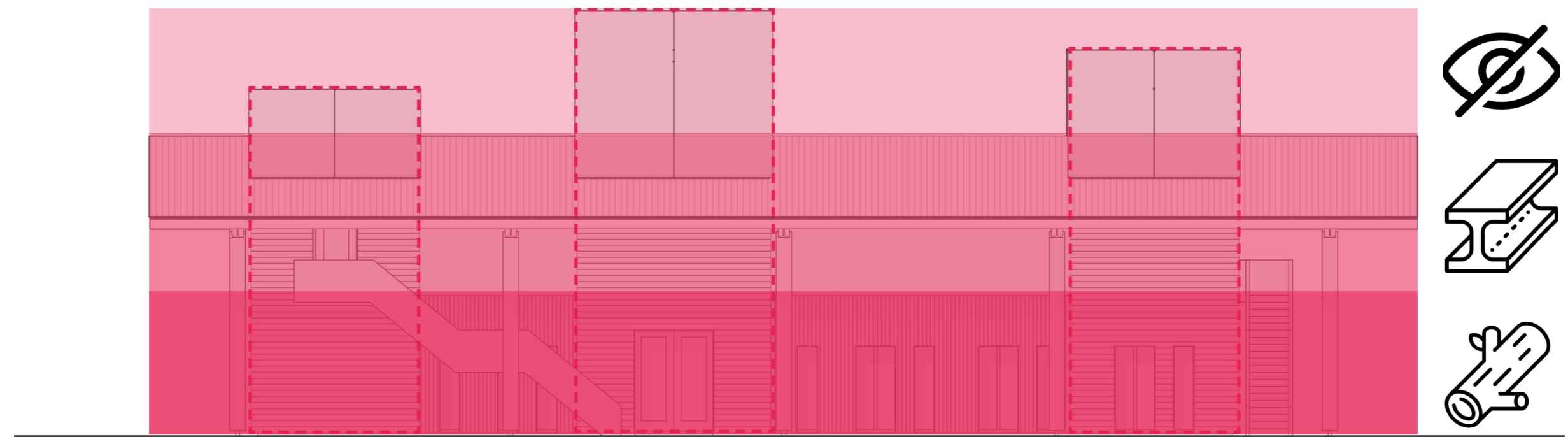


# site



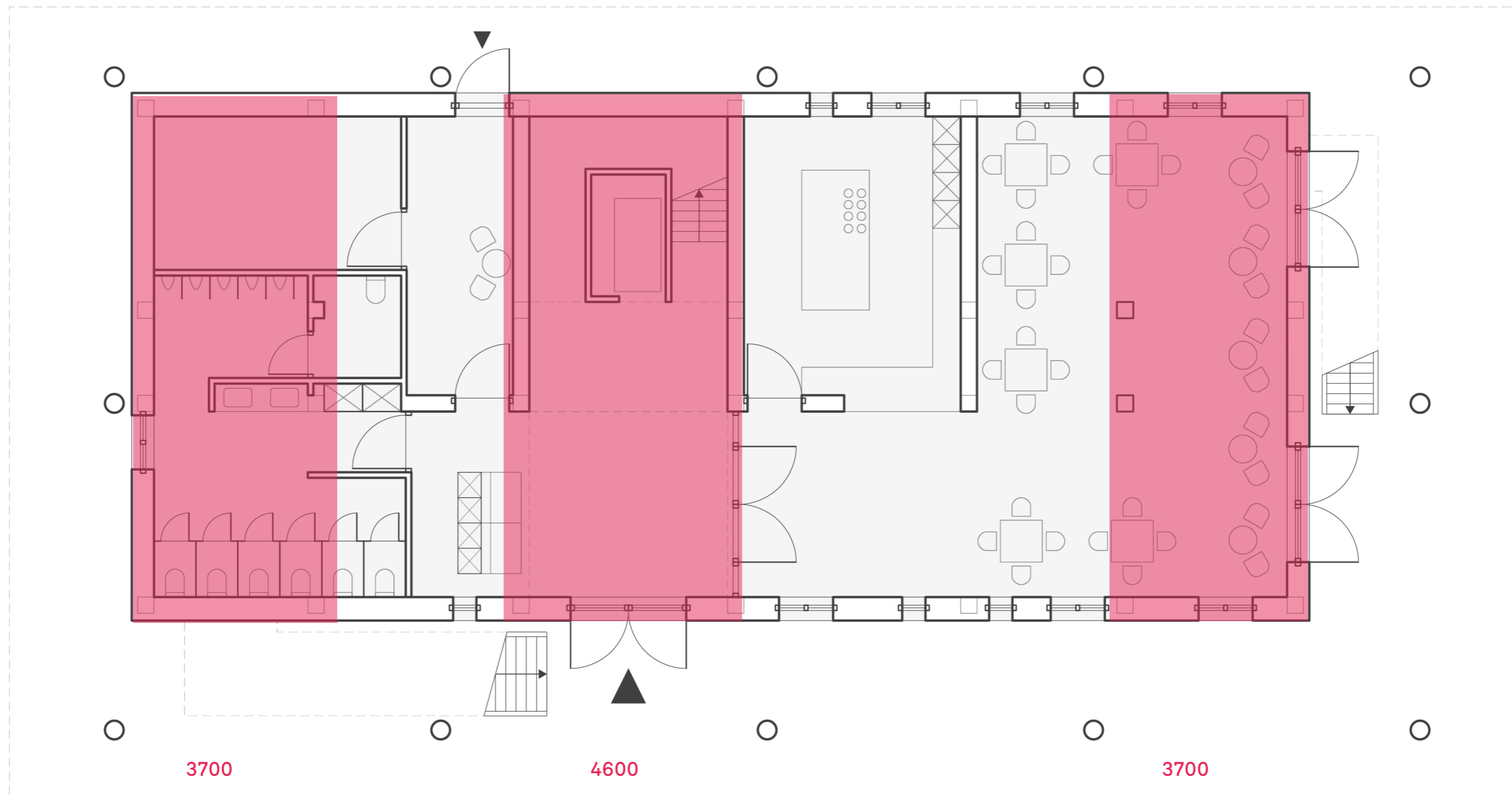
● ● ● **building**

# representation

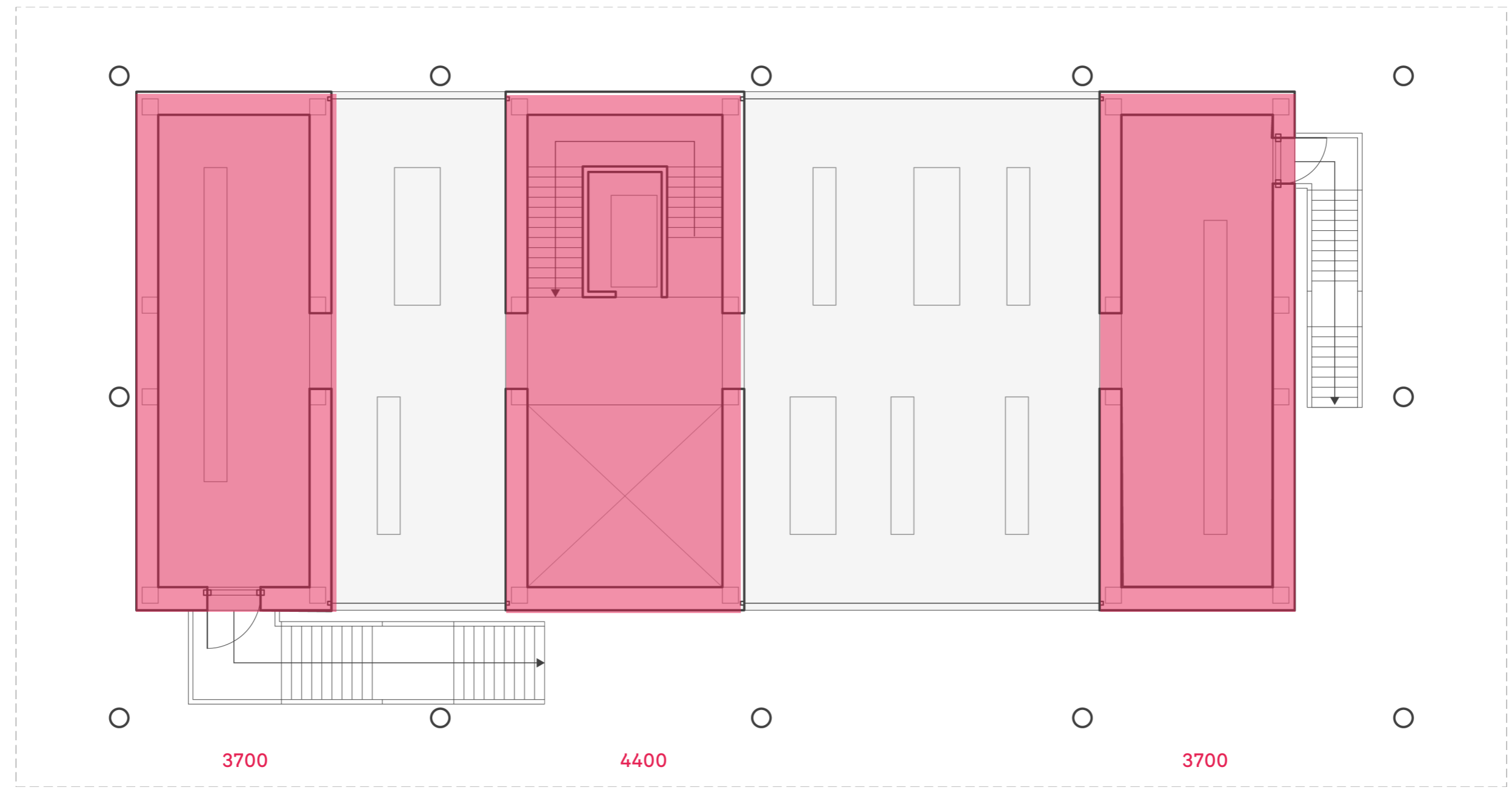




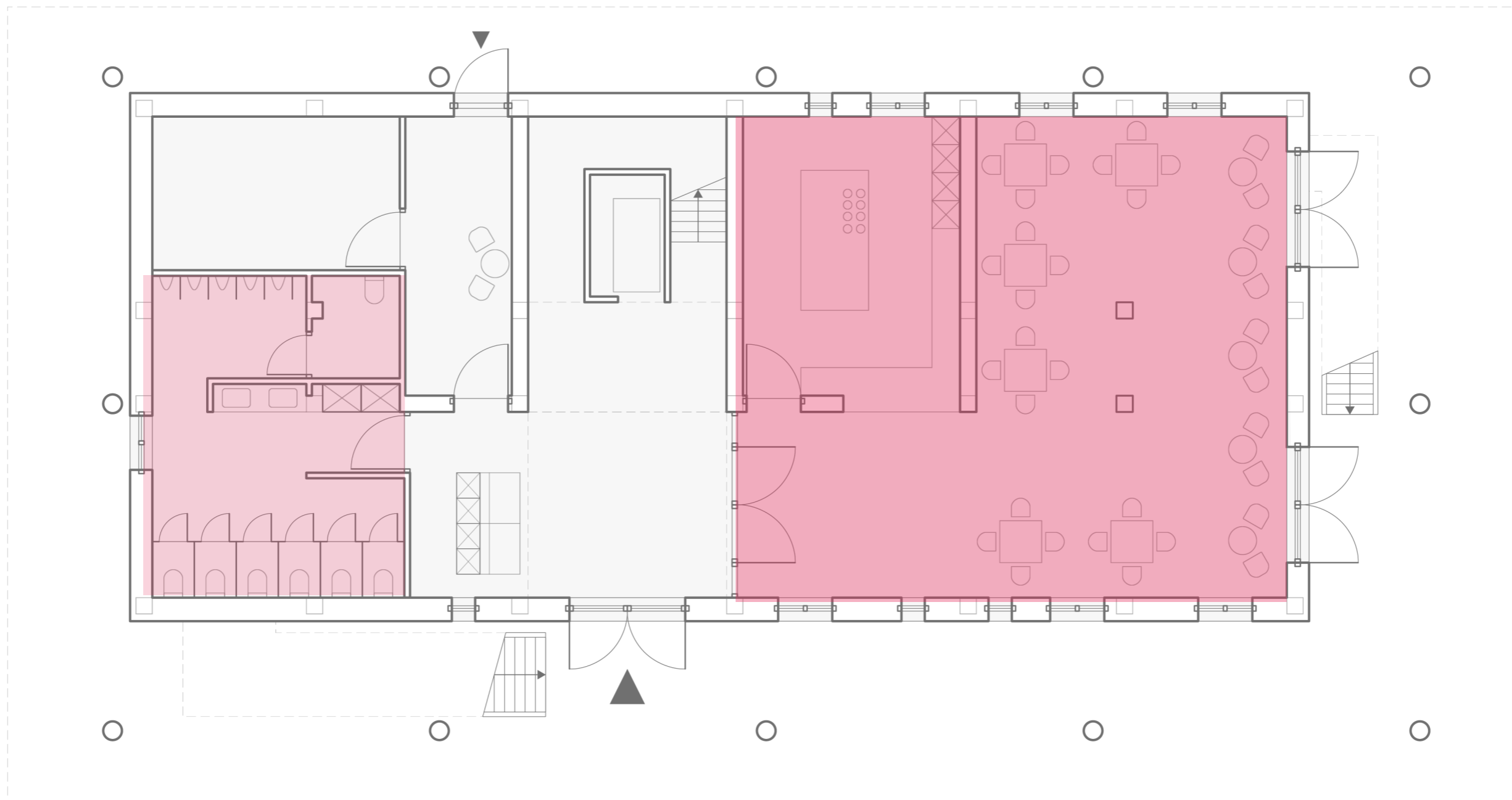
# stacks



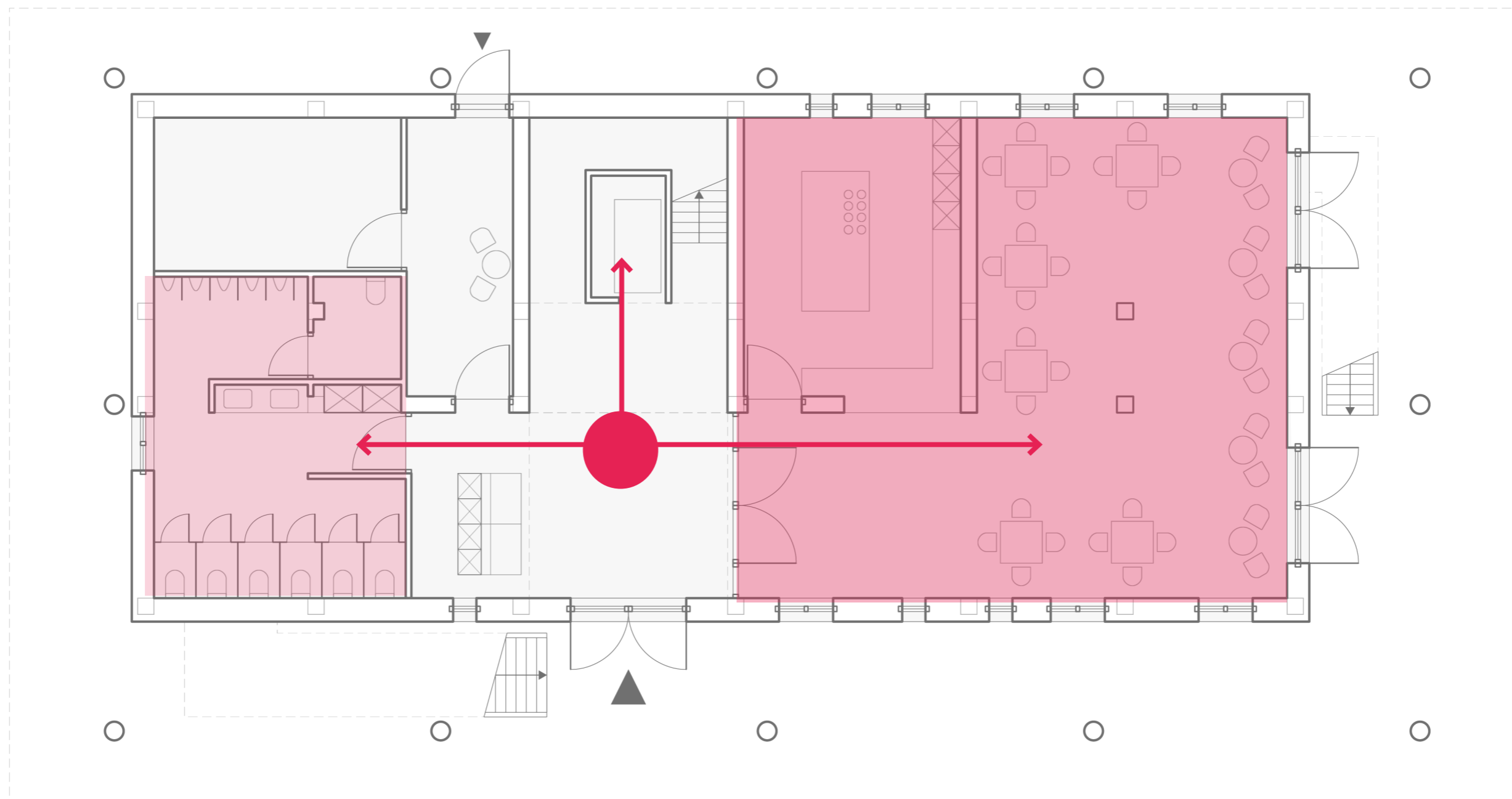
# stacks



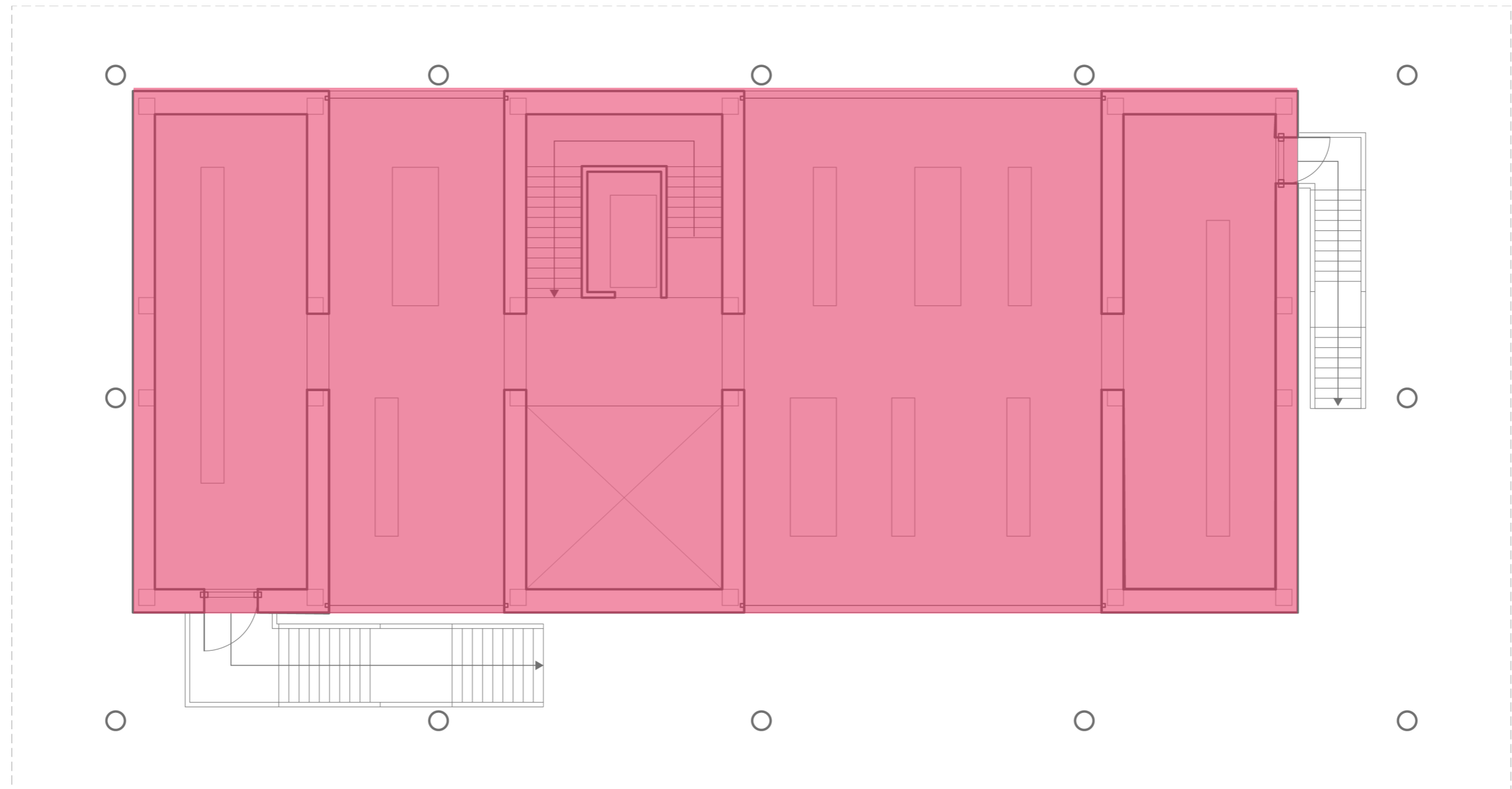
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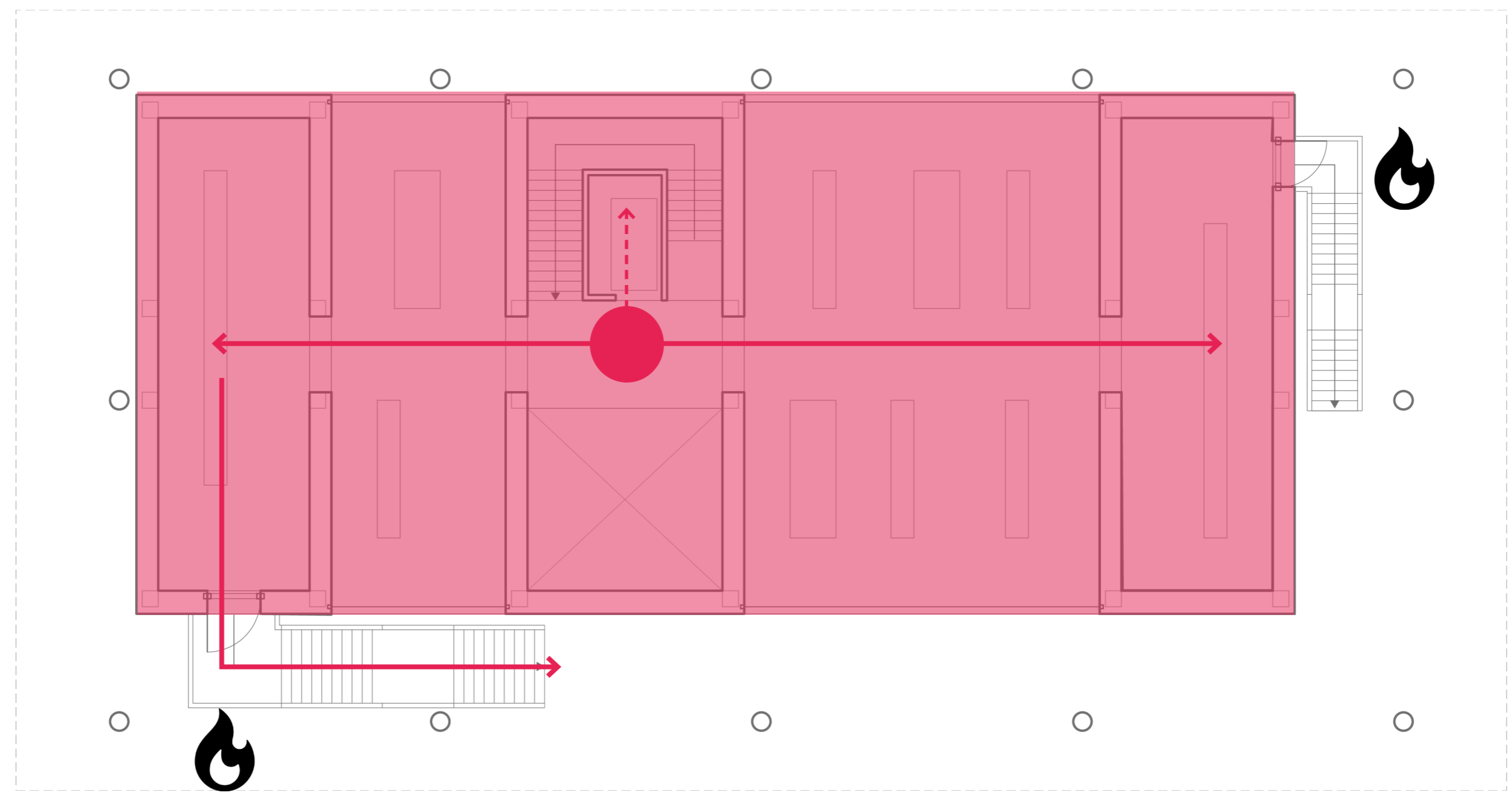
# circulation



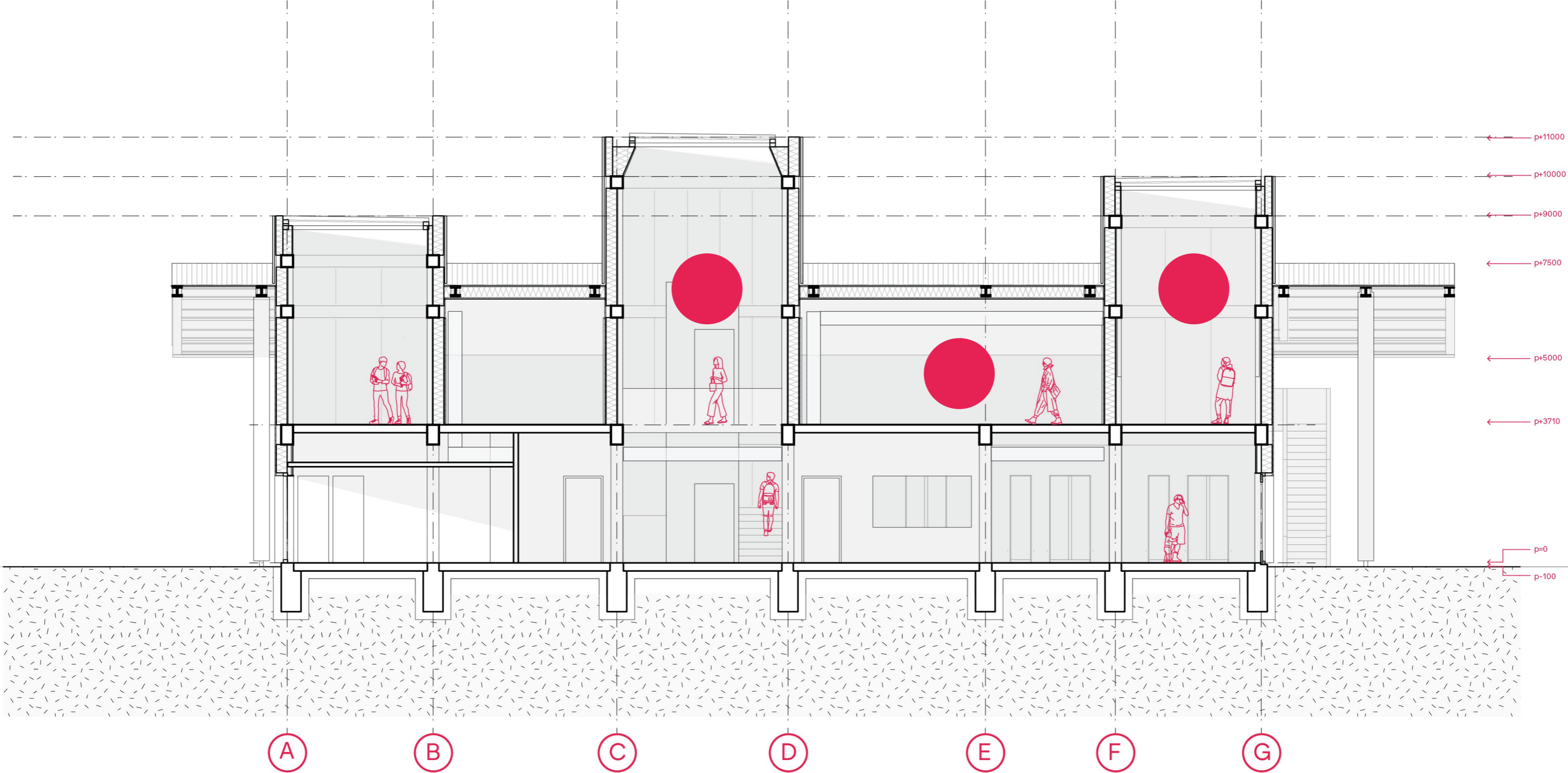
# functions



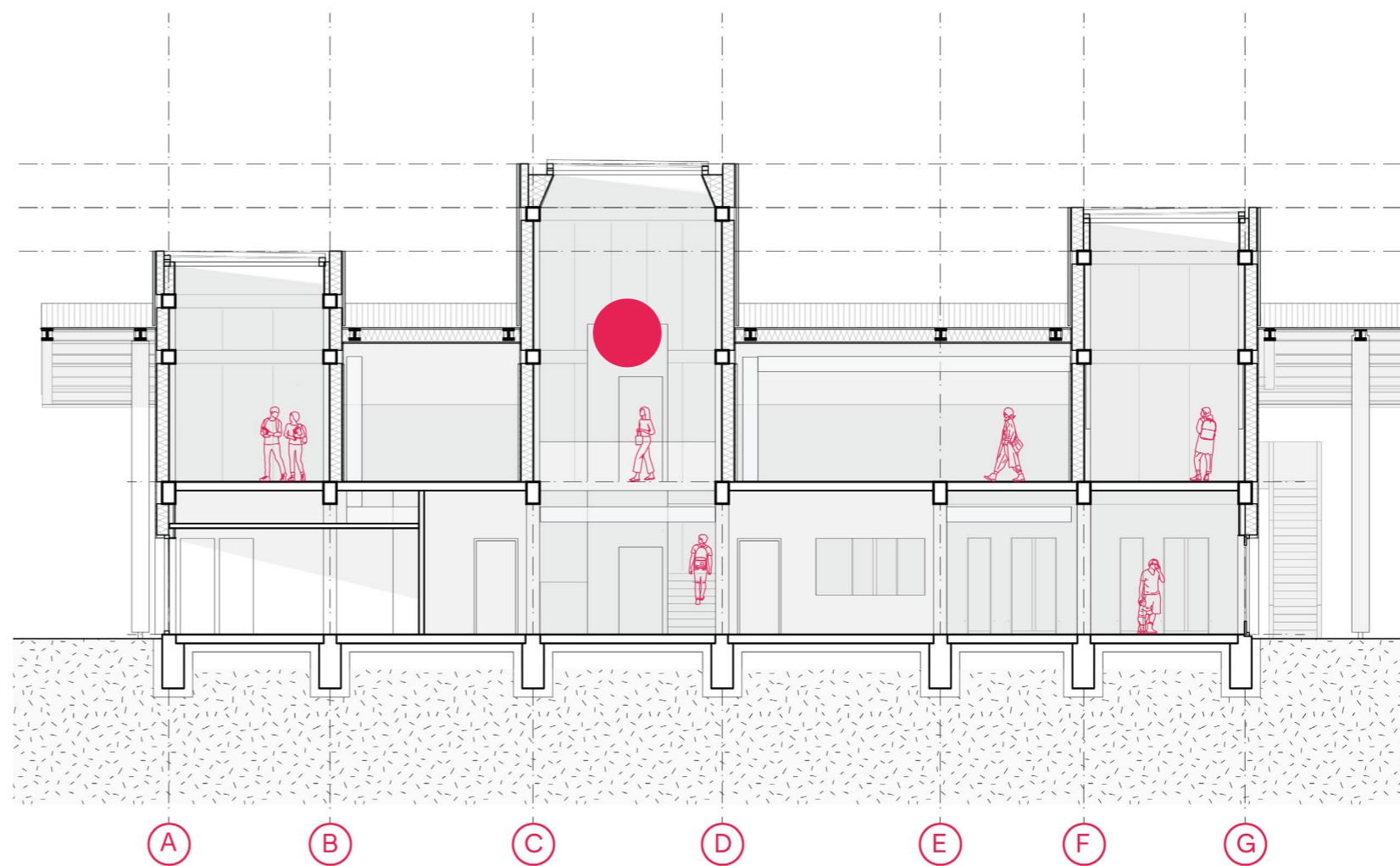
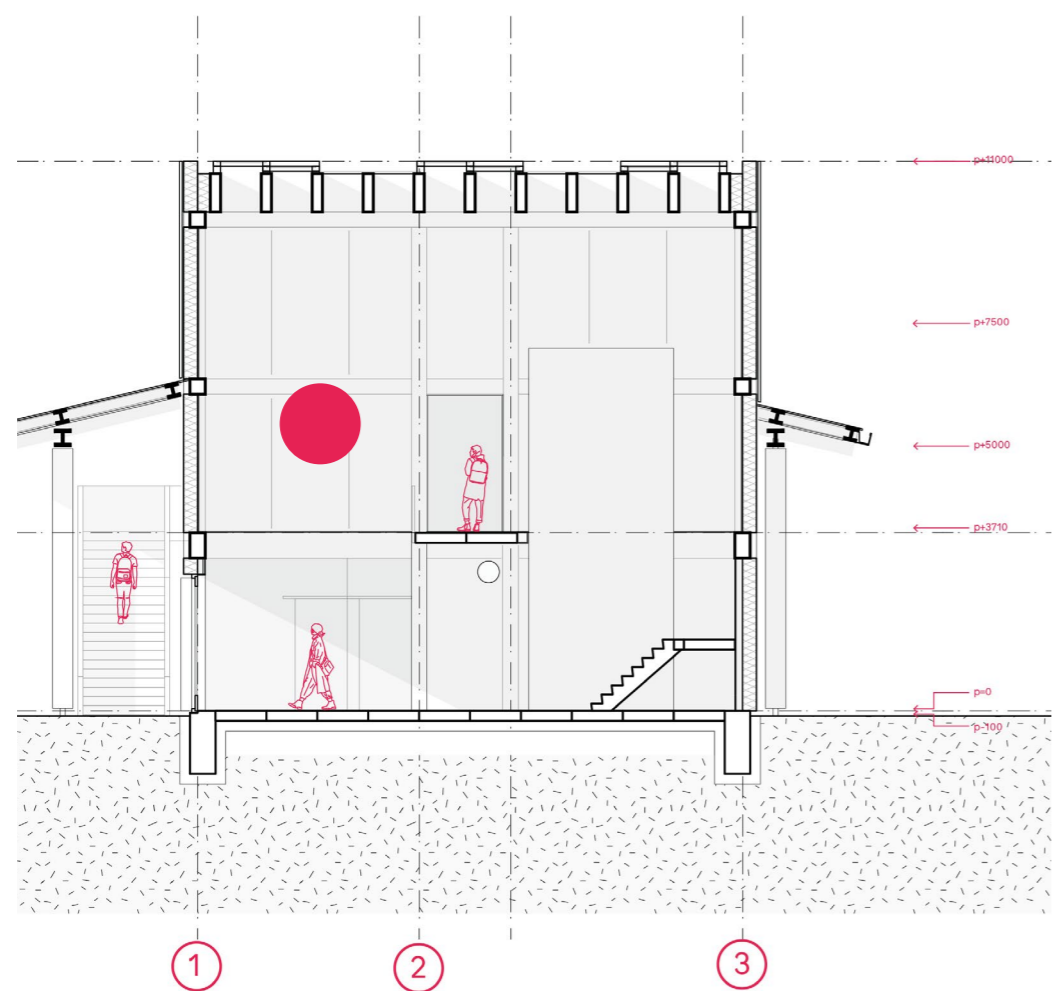
# circulation



# building



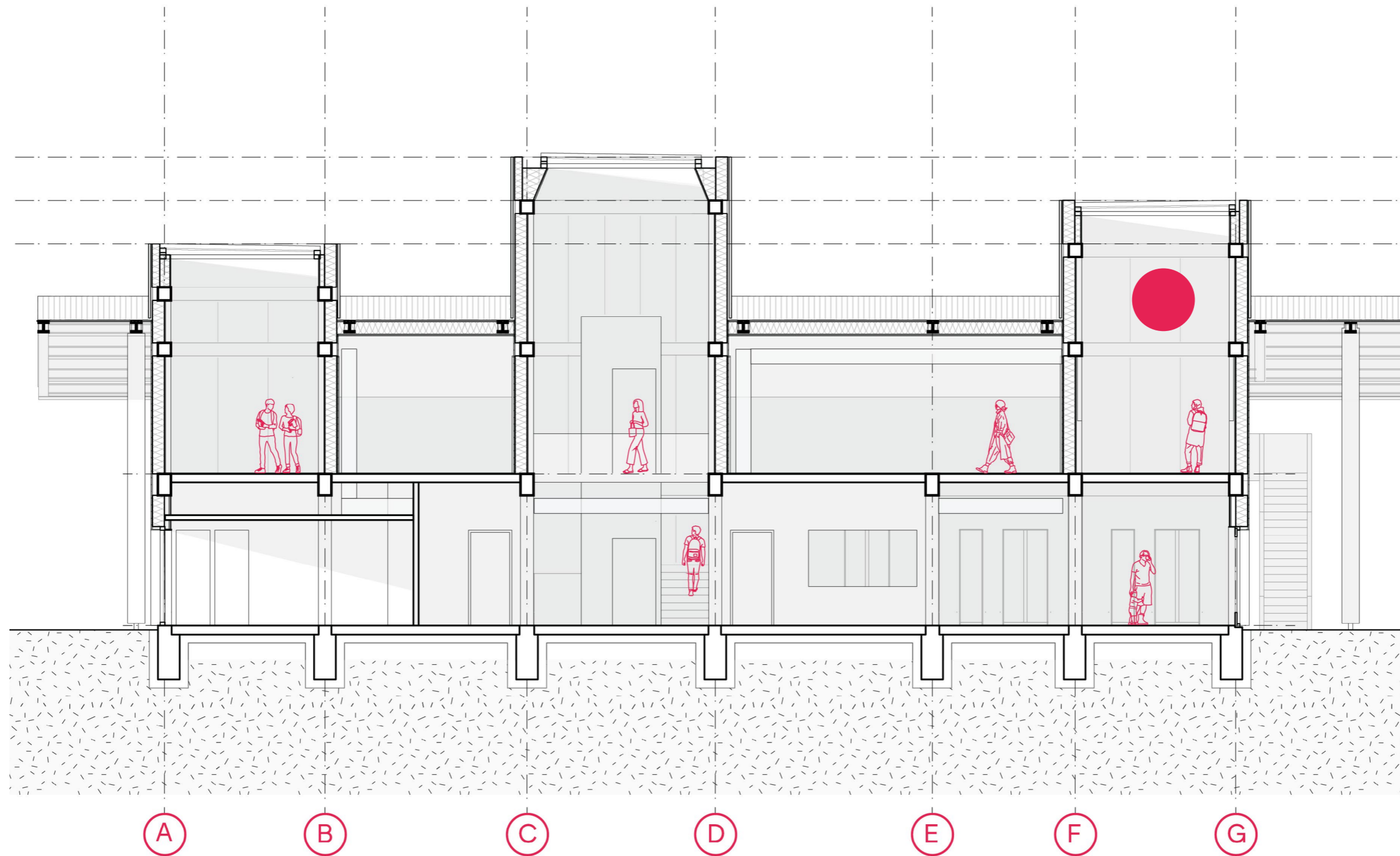
# entrance



# entrance



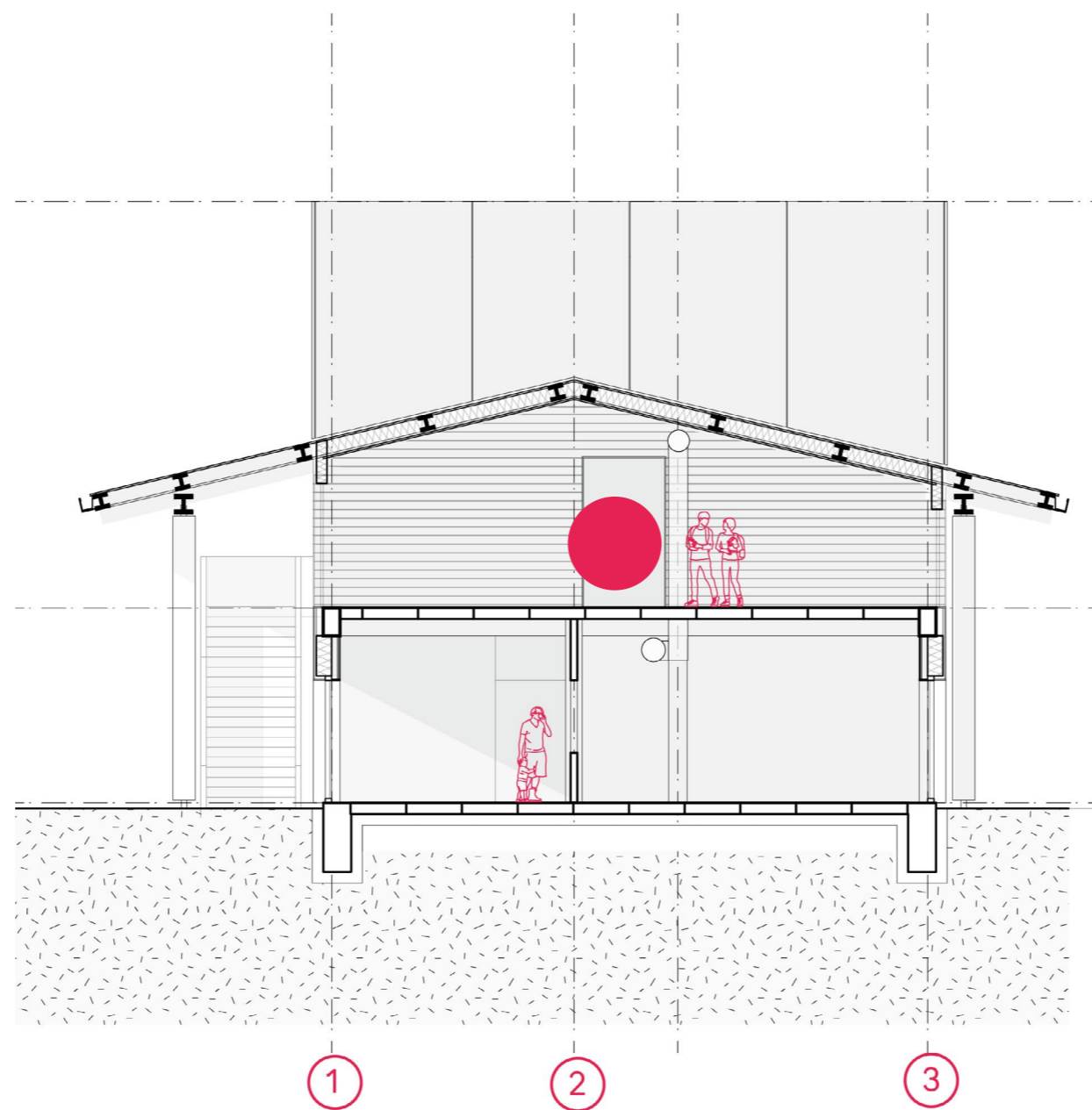
# exhibition



# exhibition



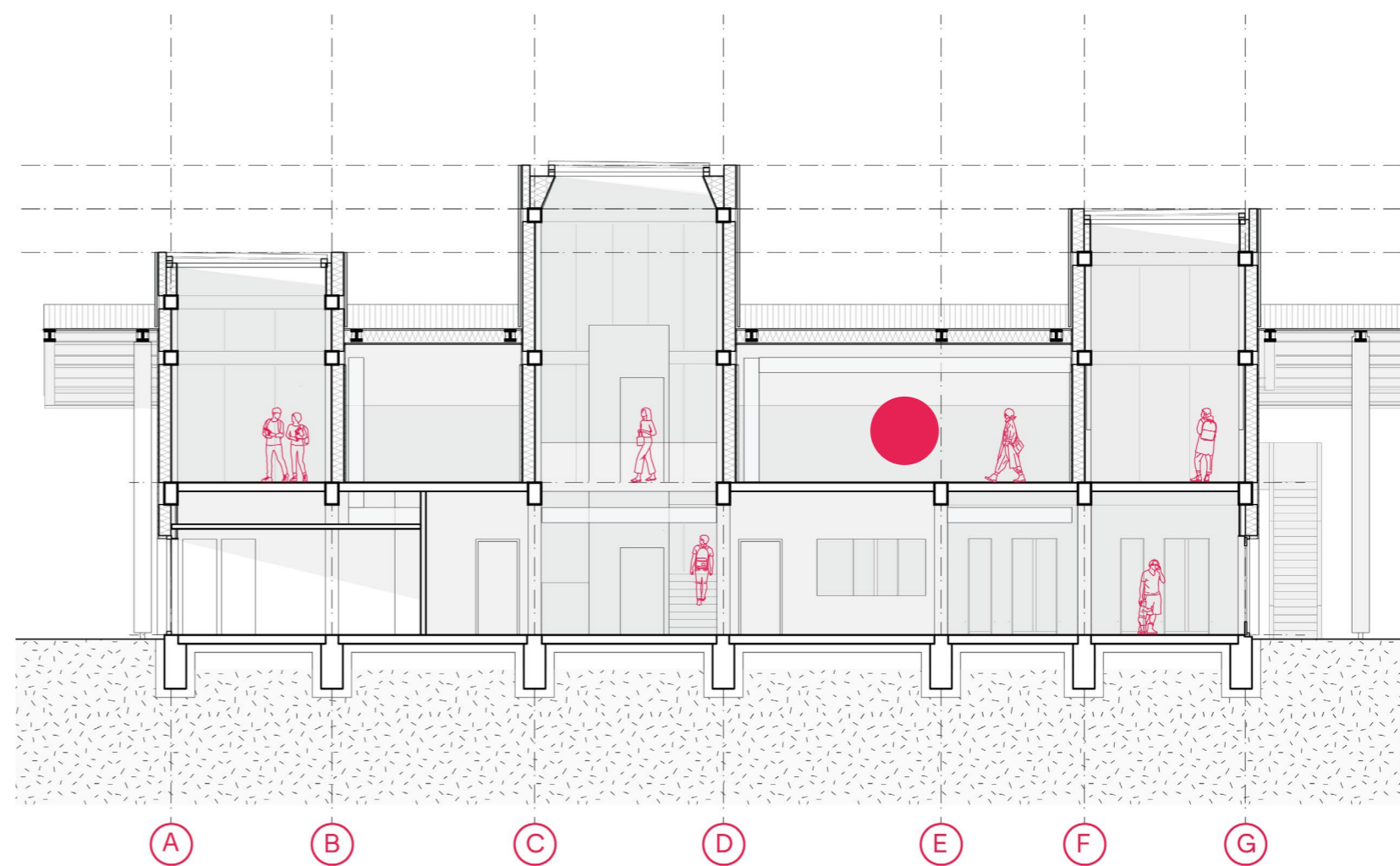
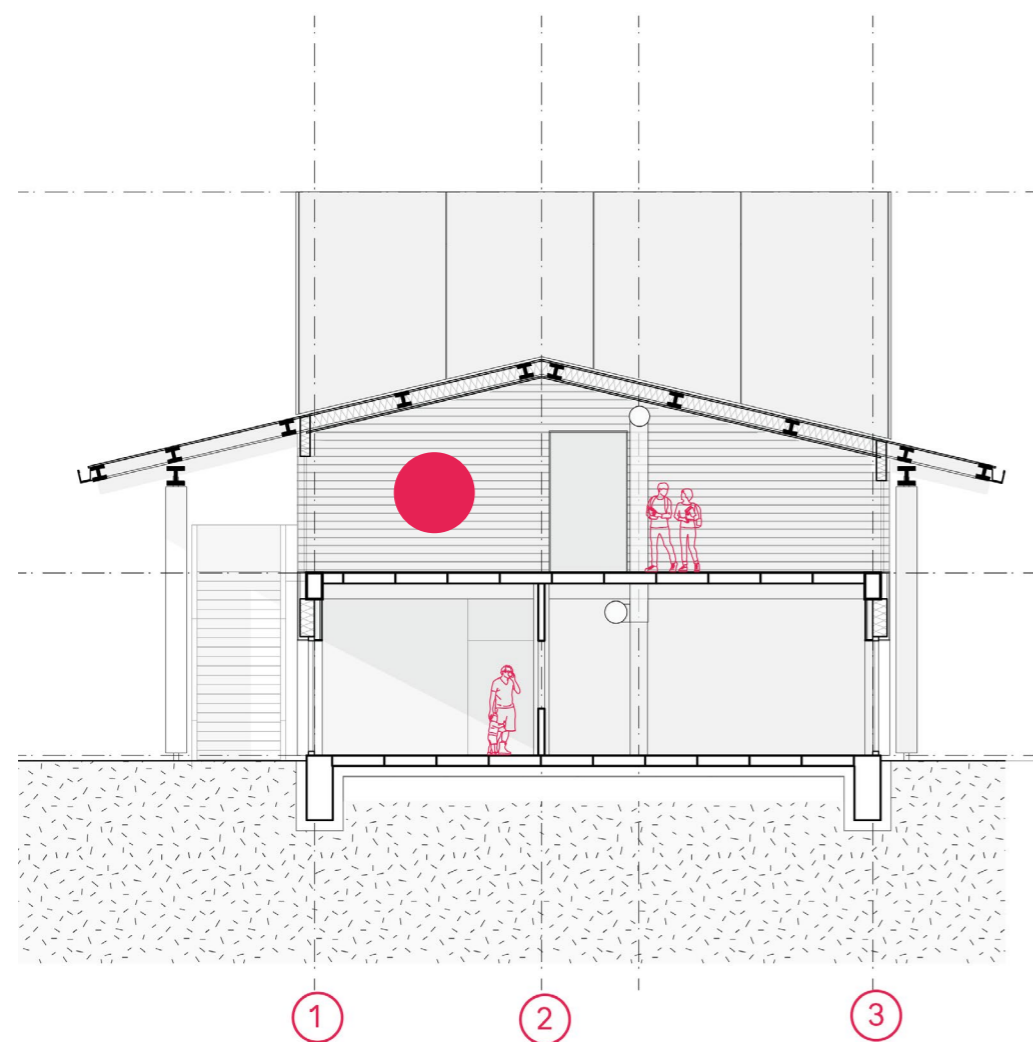
# exhibition



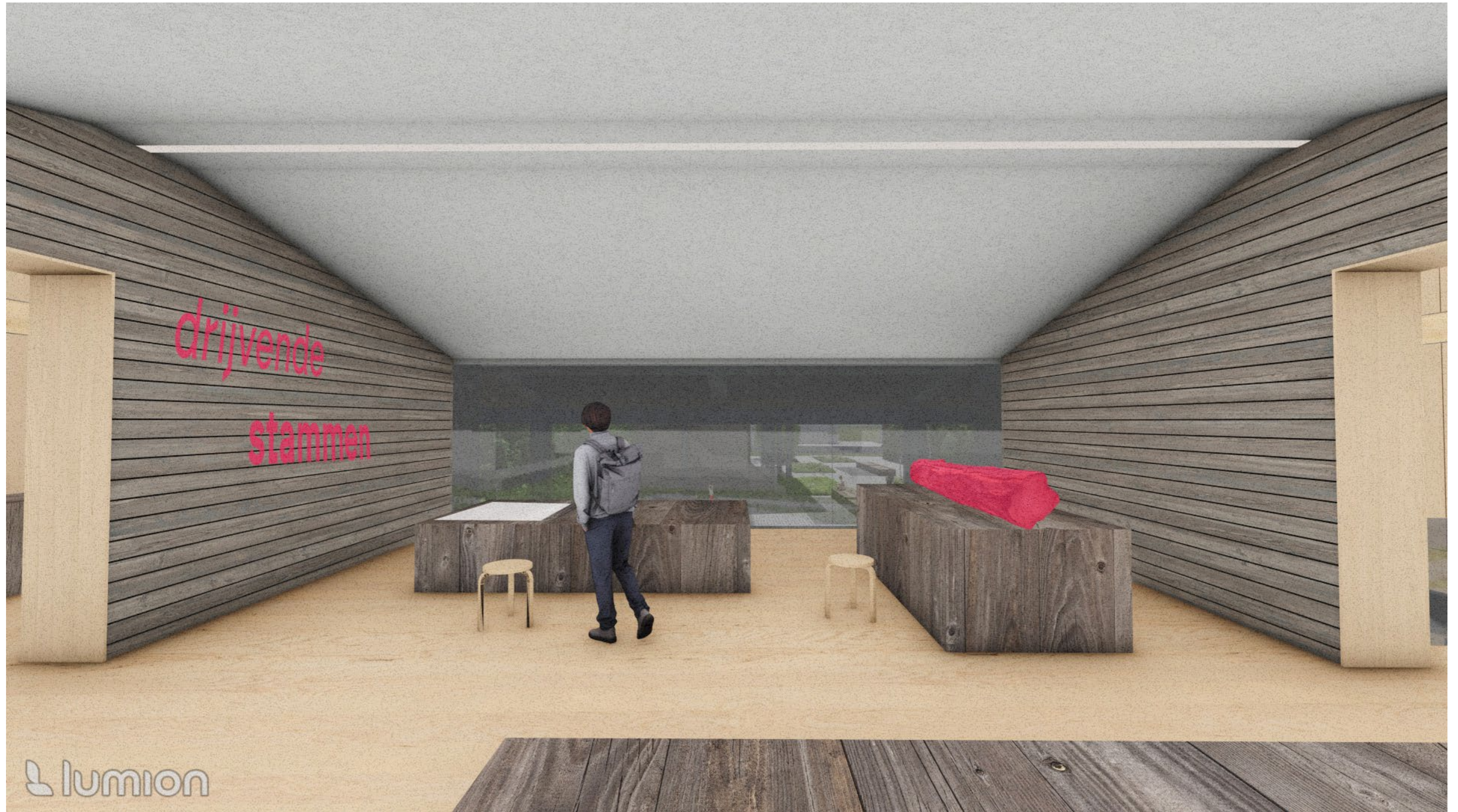
# exhibition



# entrance

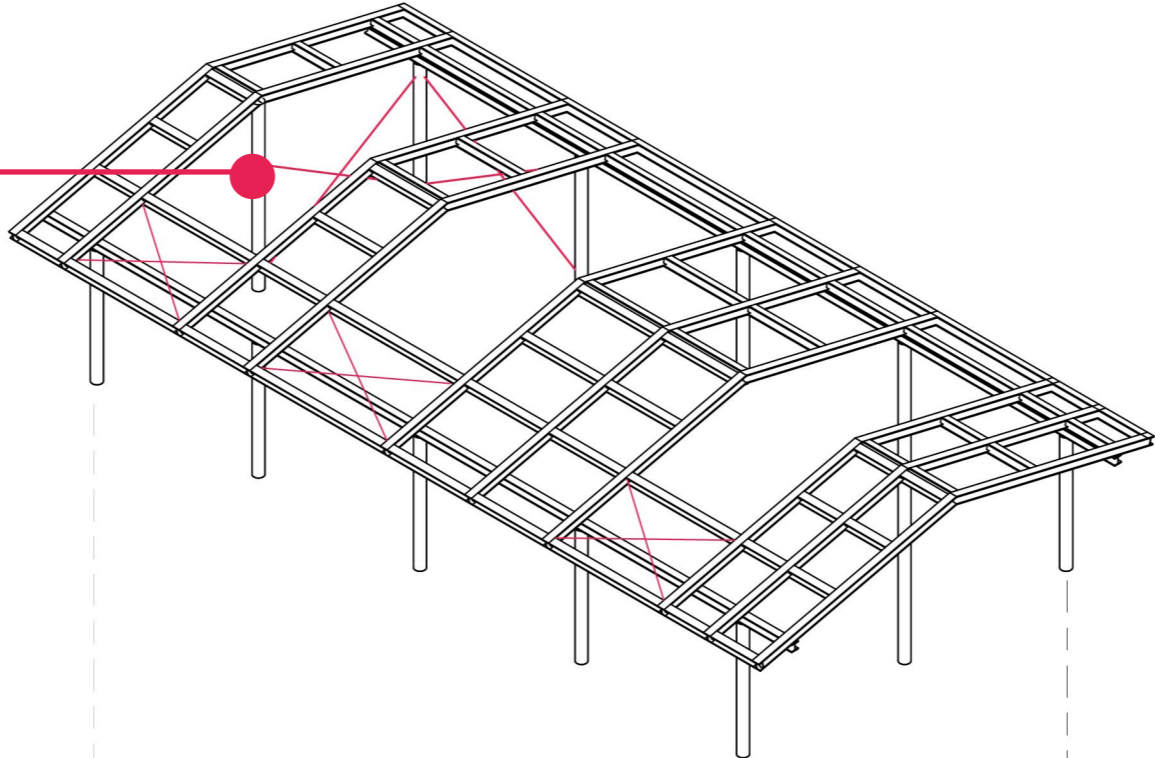


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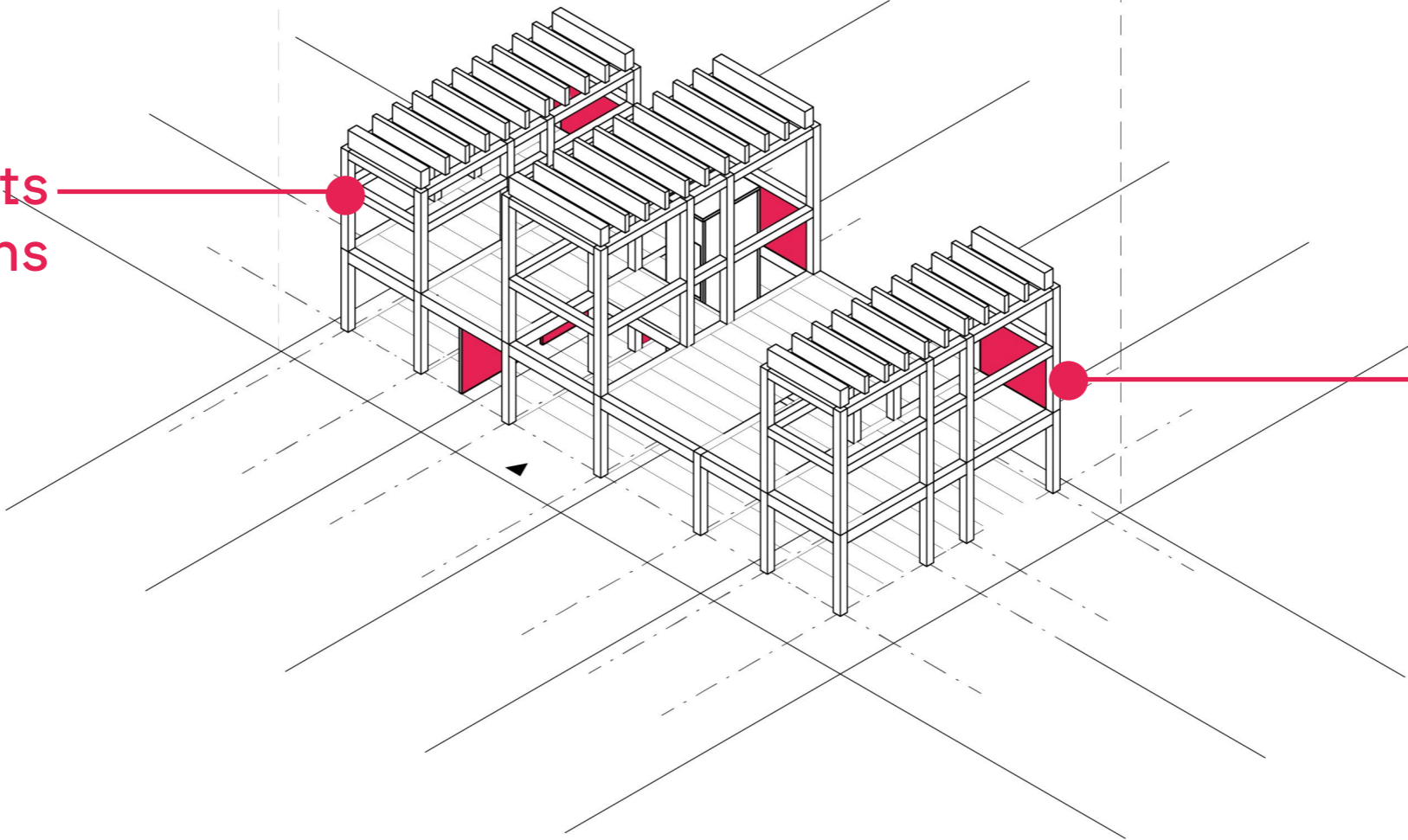


# structure

wire bracing

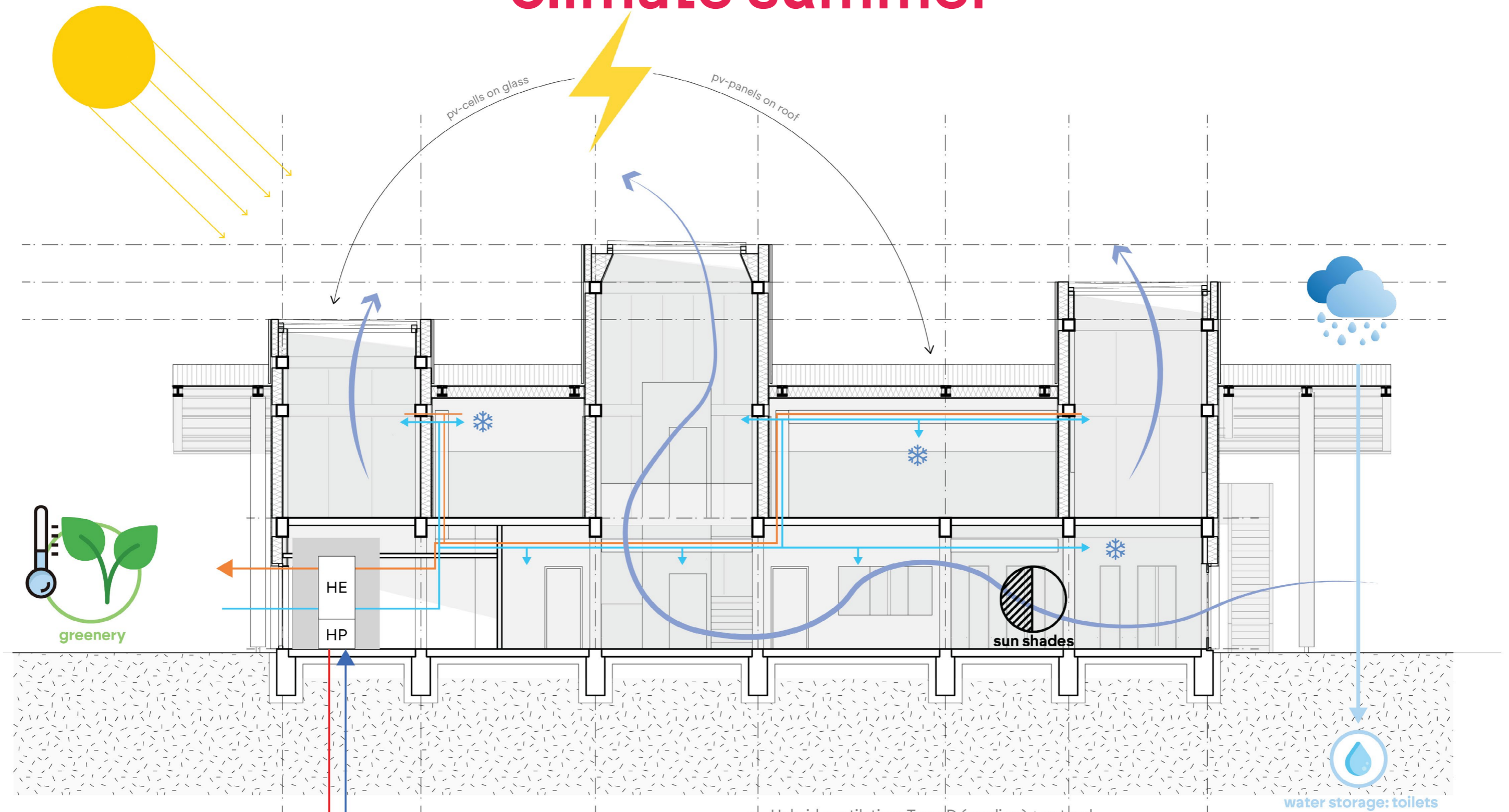


timber joints  
CLT beams & columns



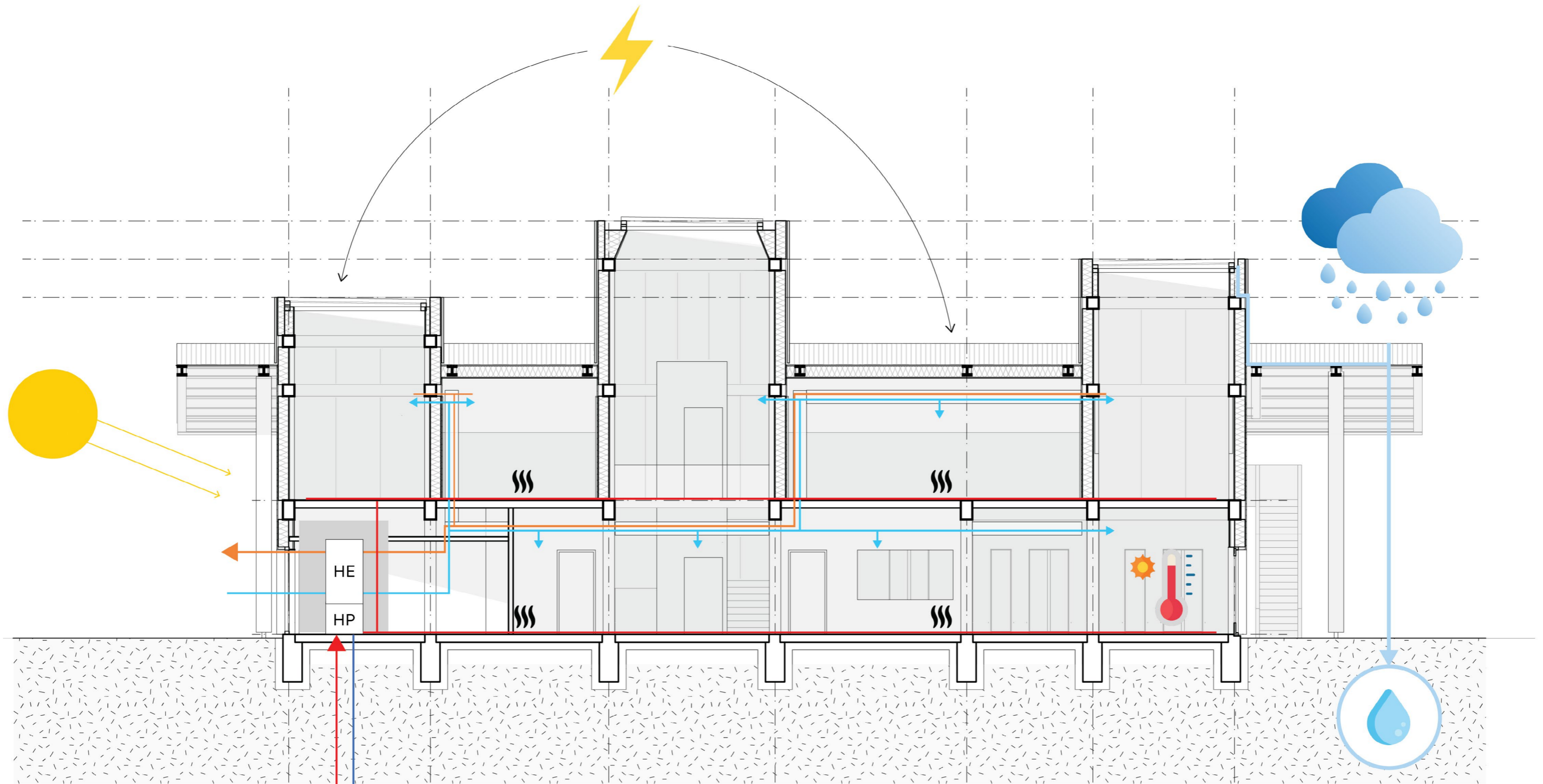
CLT bracing

# climate summer



- Hybrid ventilation: Type D (cooling) + natural
- Rc-value: 6+
- Sustainable materials: wood, wood-fibre
- Heat exchanger
- Heat pump
- PV-cells & panels: S-W-E
- Locational electric water heater
- passive cooling: minimal openings + overhangs

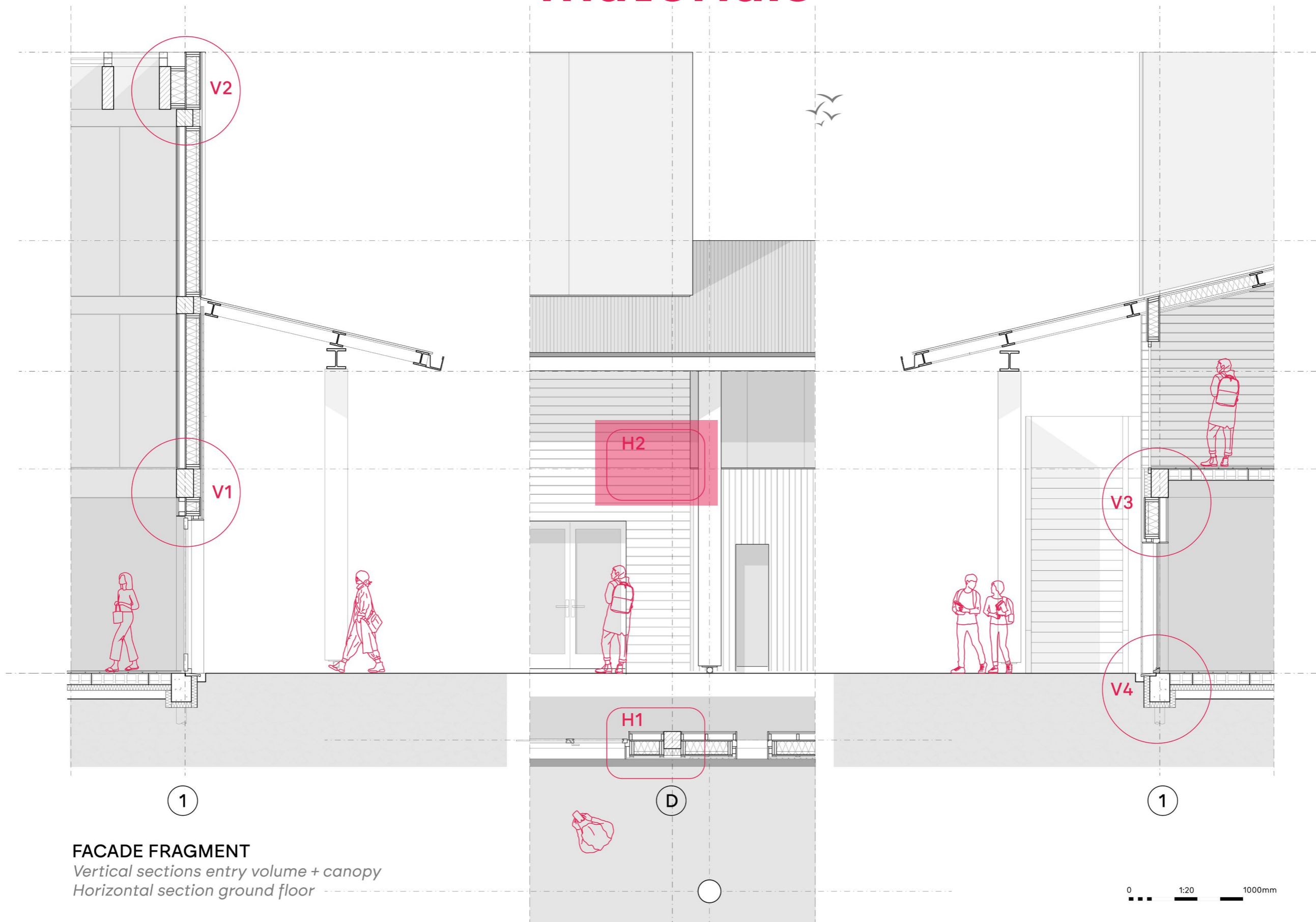
# climate winter



- Ventilation: Type D (warming)
- Rc-value: 6+
- Sustainable materials: wood, wood-fibre
- Heat exchanger
- Heat pump
- PV-cells & panels: S-W-E
- Locational electric water heater
- passive warming: Low sun under canopy

water storage: toilets

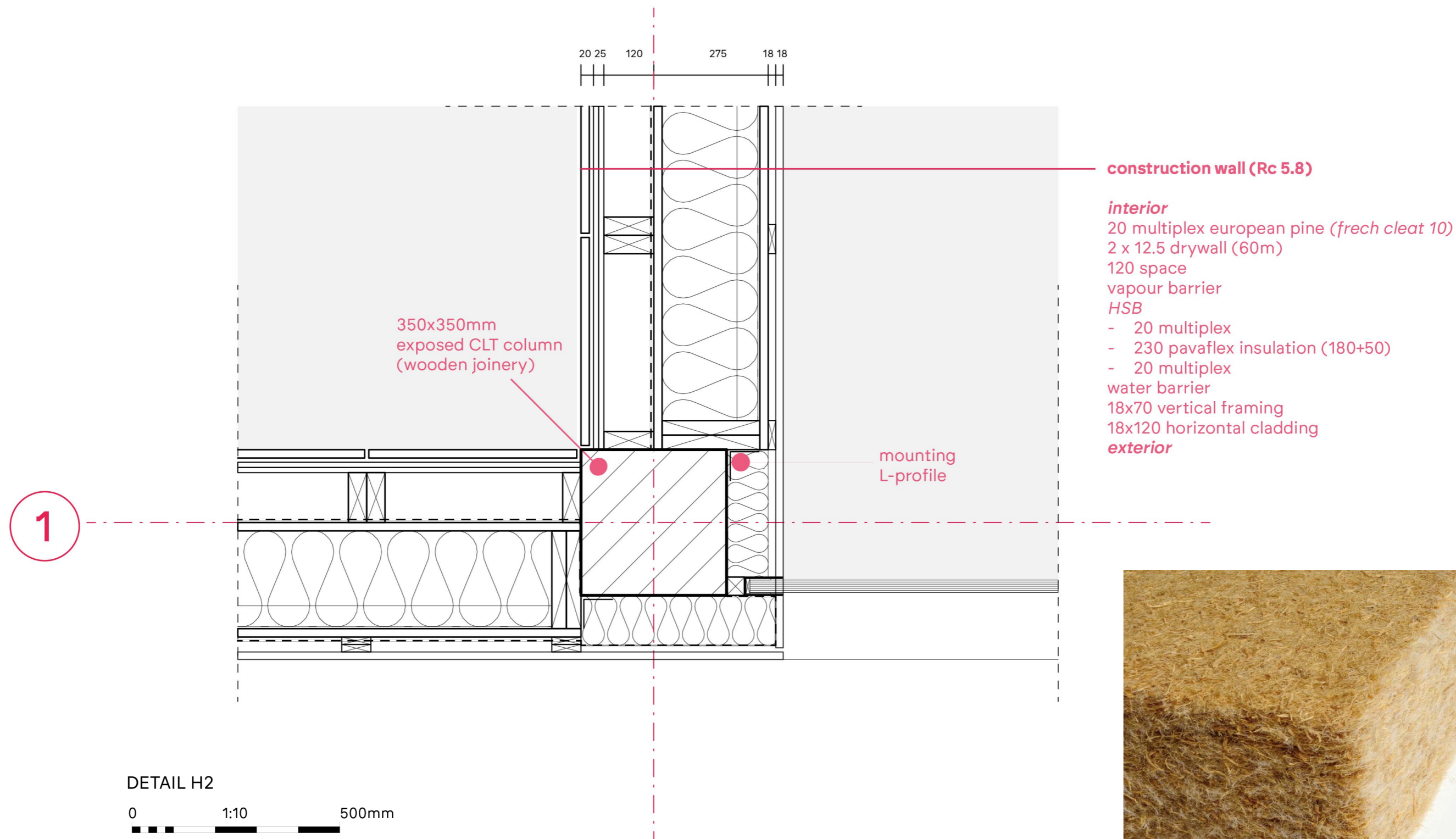
# materials



## FACADE FRAGMENT

Vertical sections entry volume + canopy  
Horizontal section ground floor

# materials



pavaflex

# Reflection

**simplification**

**thank you**