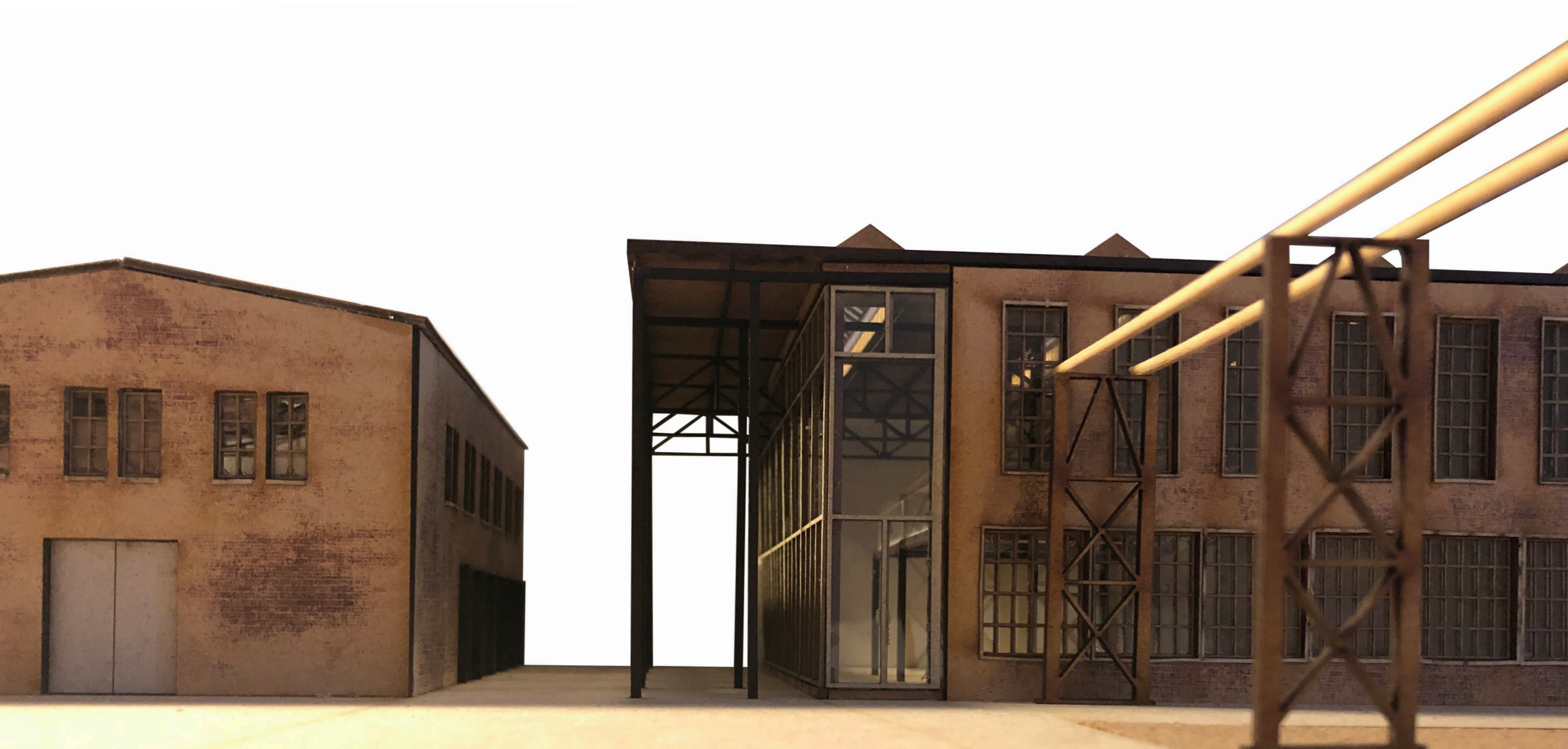


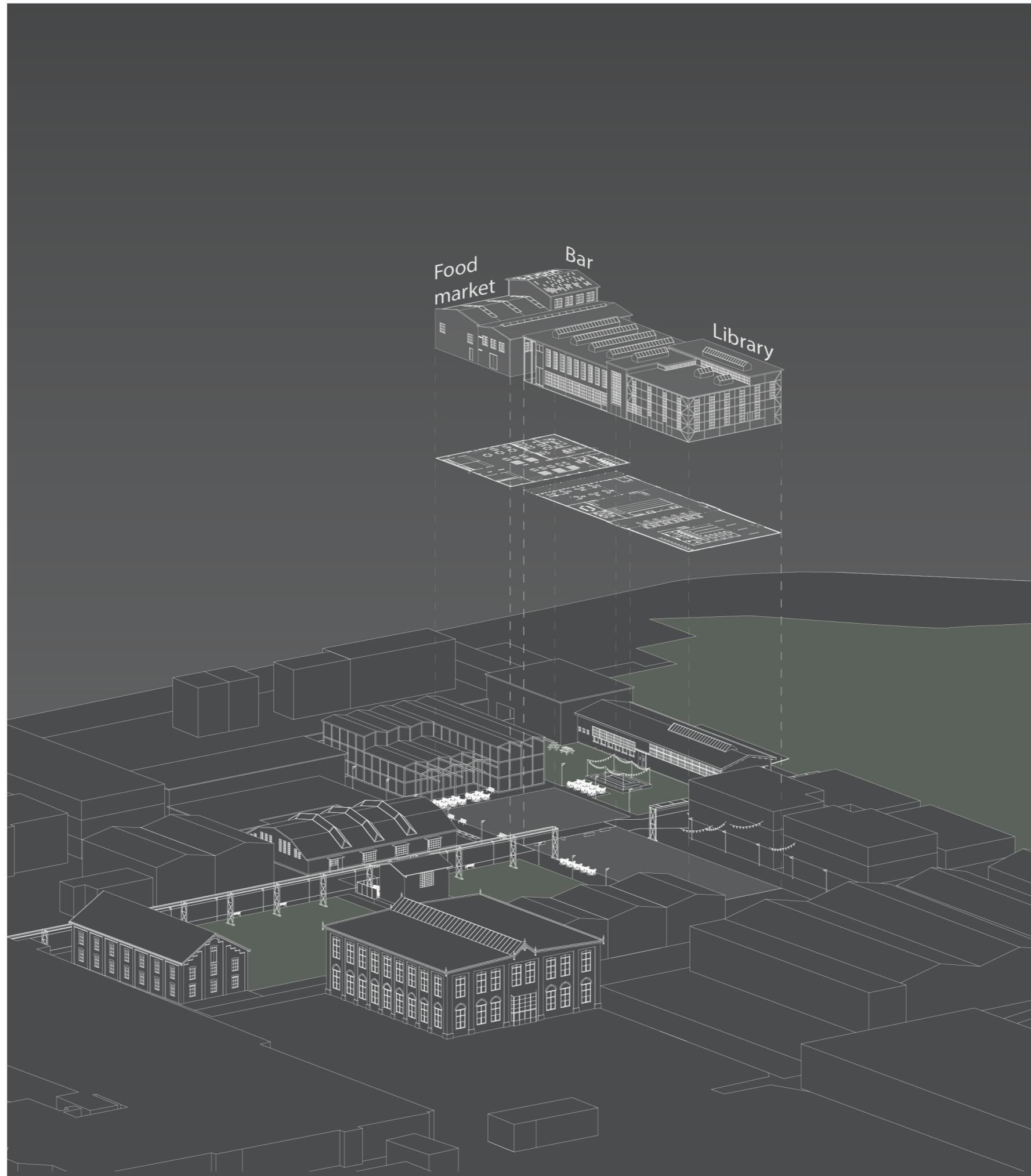
P5 | Transformation of the
Campus South ensemble

Sjoerd de Roij
4635795

Heritage & Architecture|TU Delft|MSc4
L.Meijers | G.Warries | C.van Emstede | G.Bracken



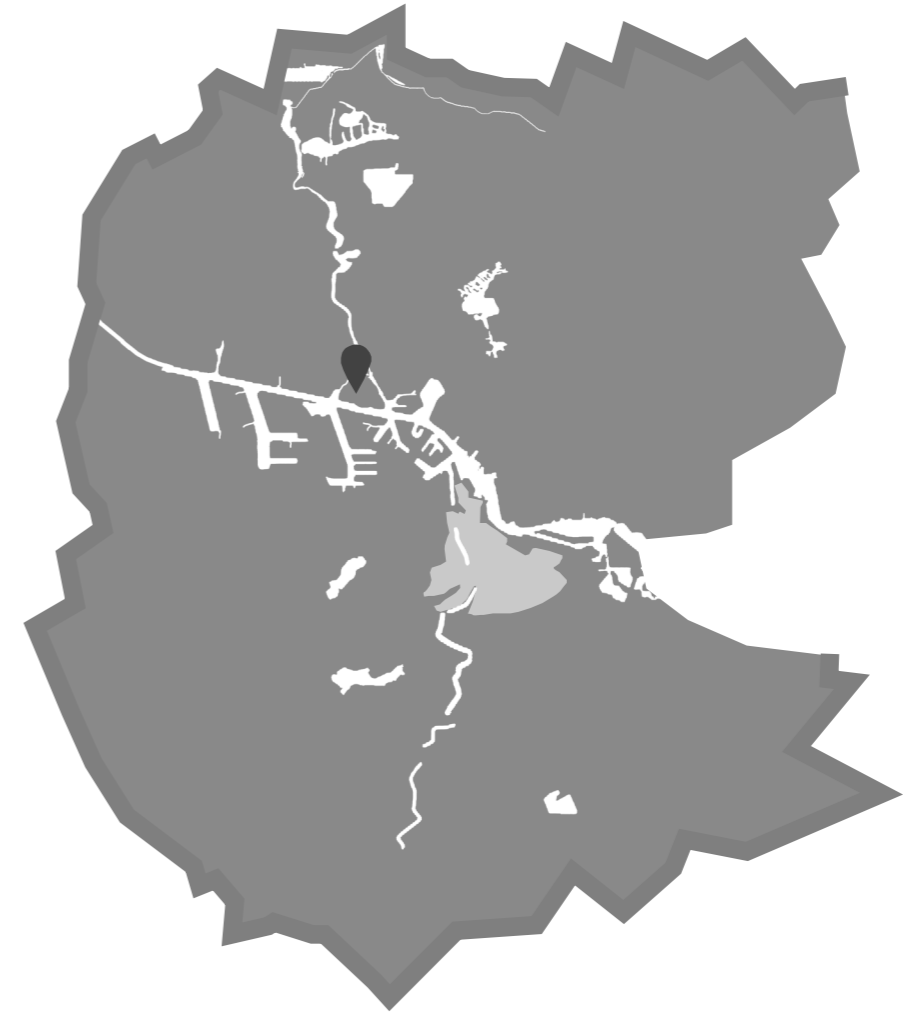
“Exposing Campus South”



Location Hembrug

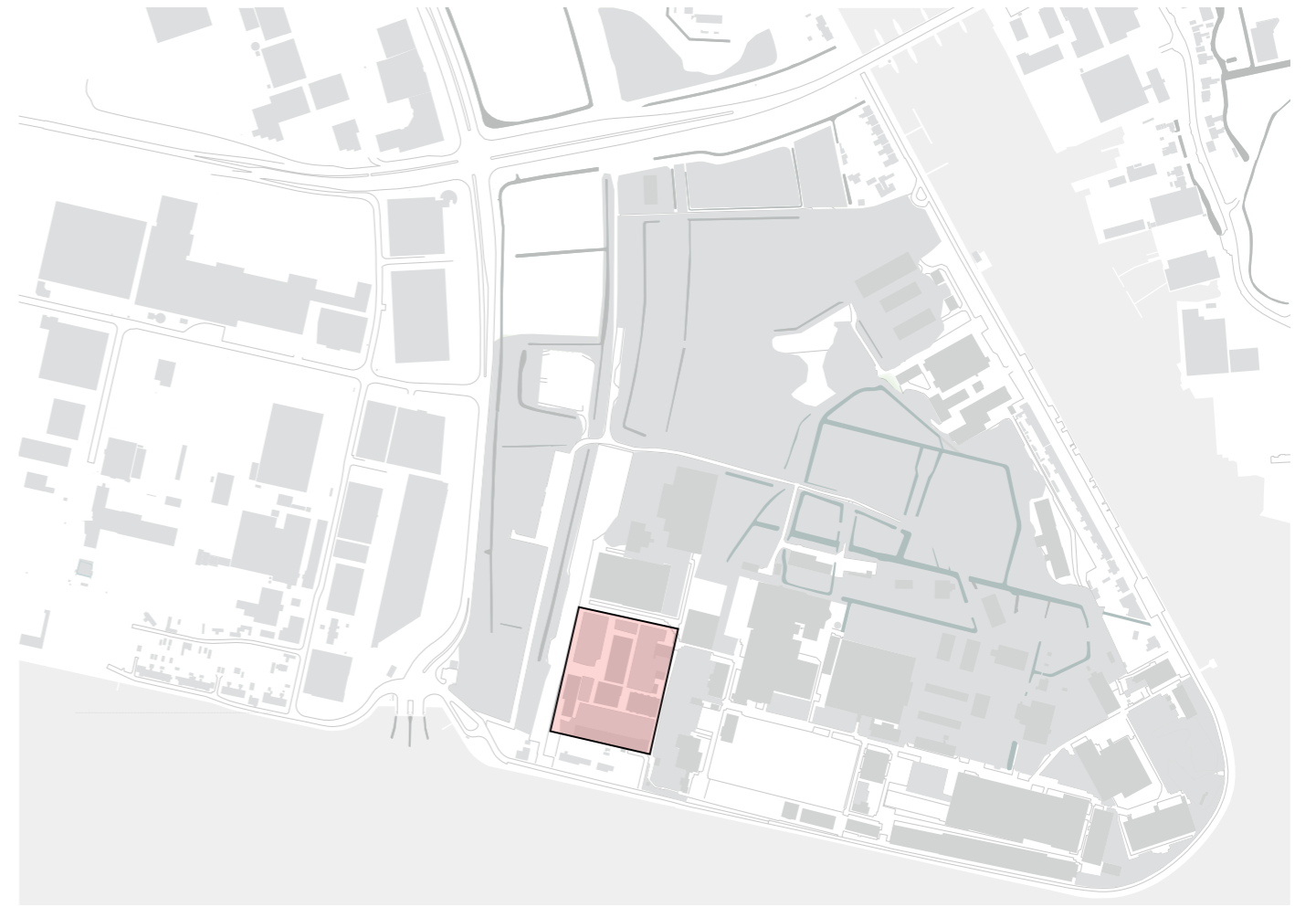
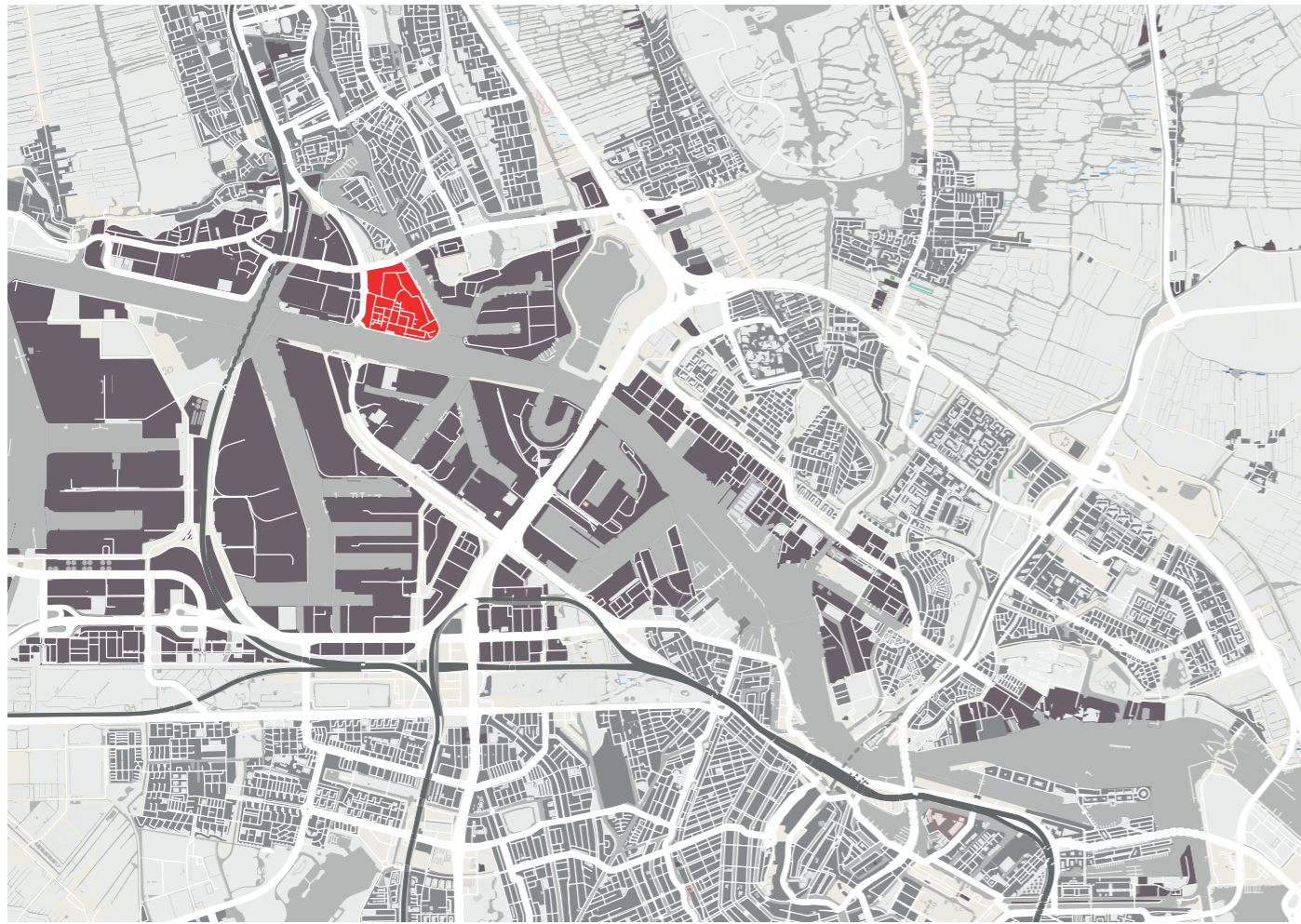


Stelling van Amsterdam



Location Hembrug within the SvA

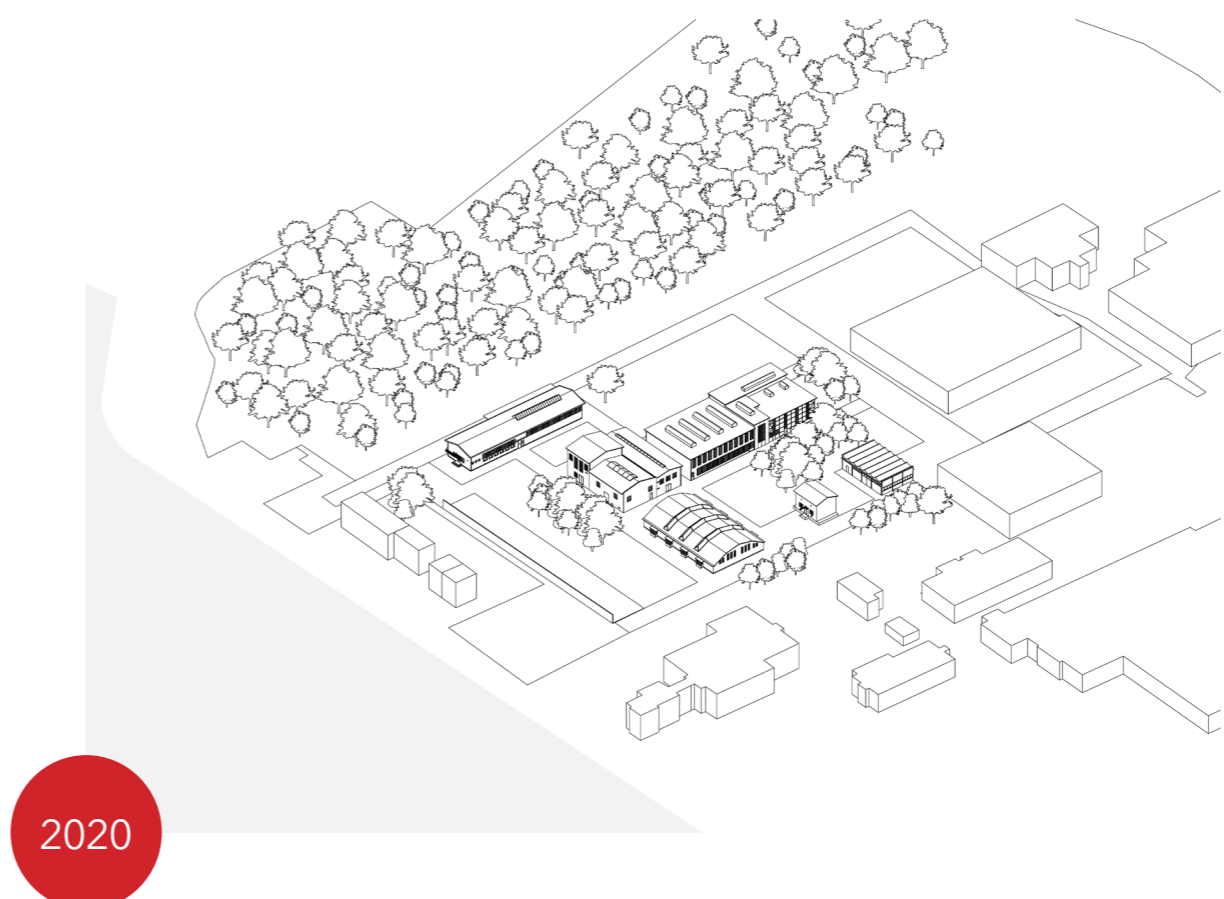
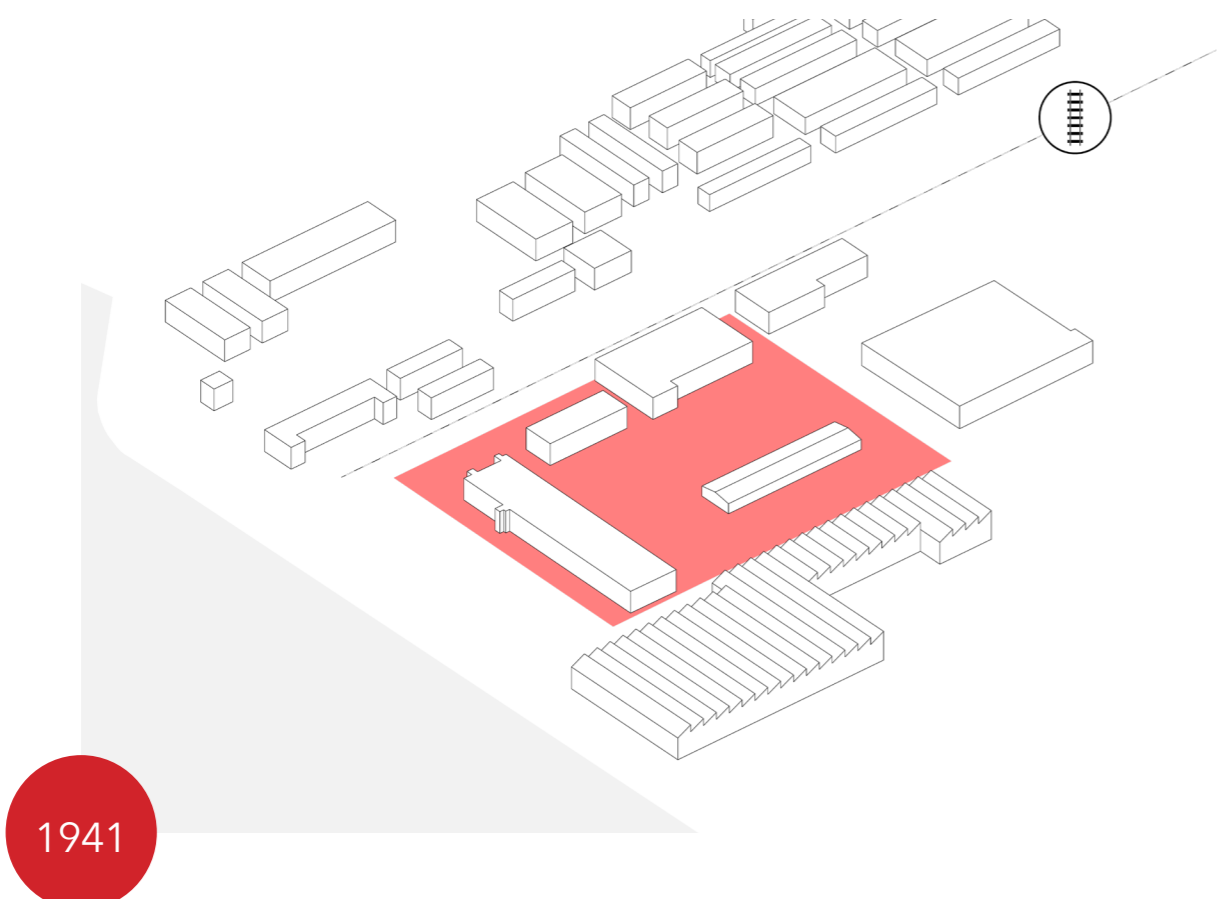
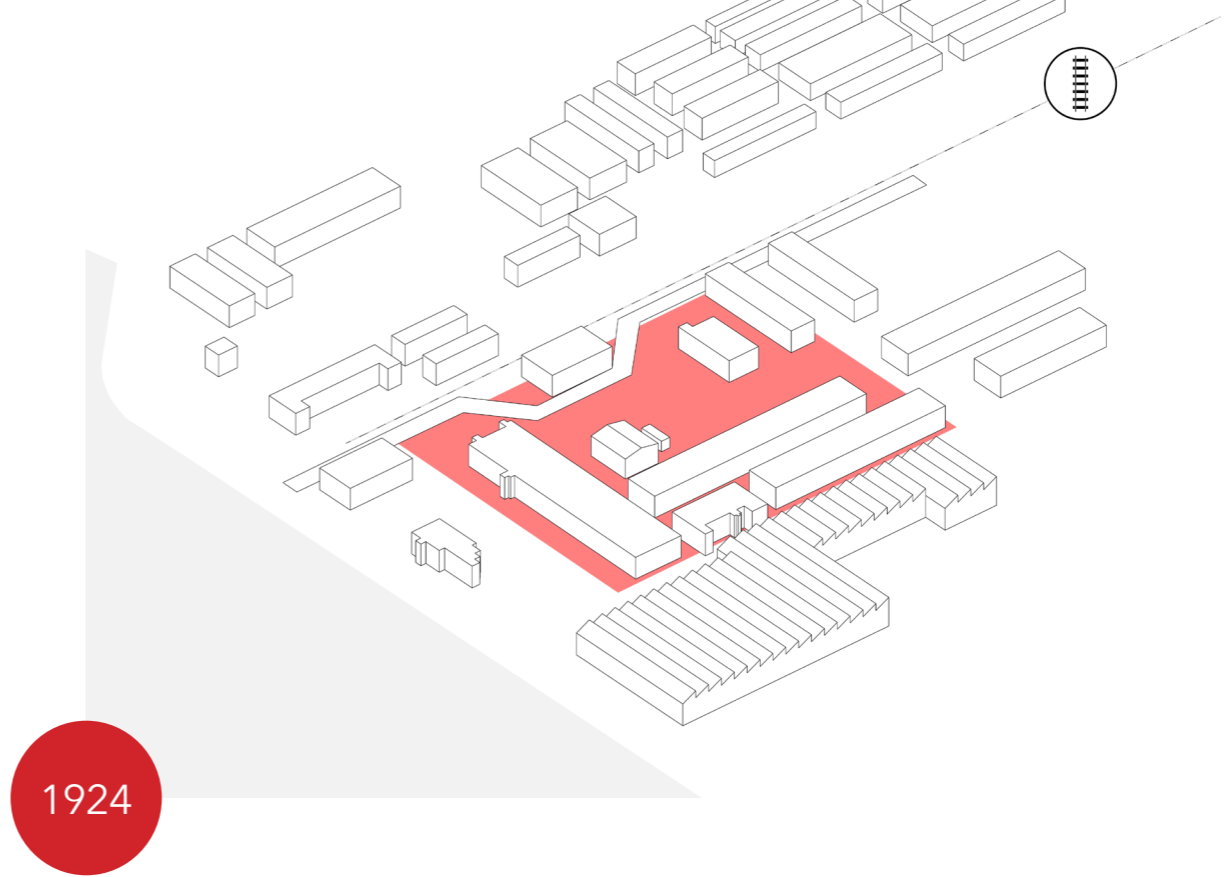
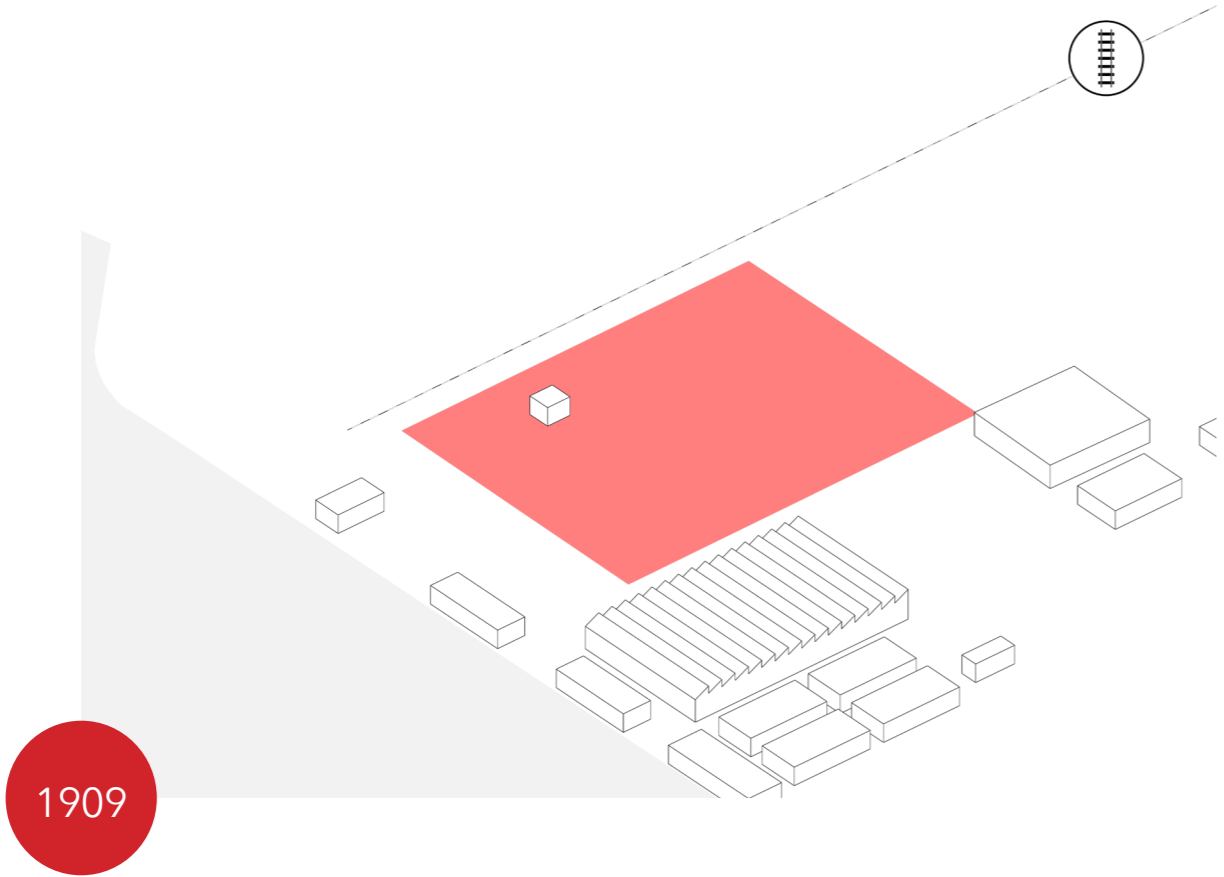
Location Campus South



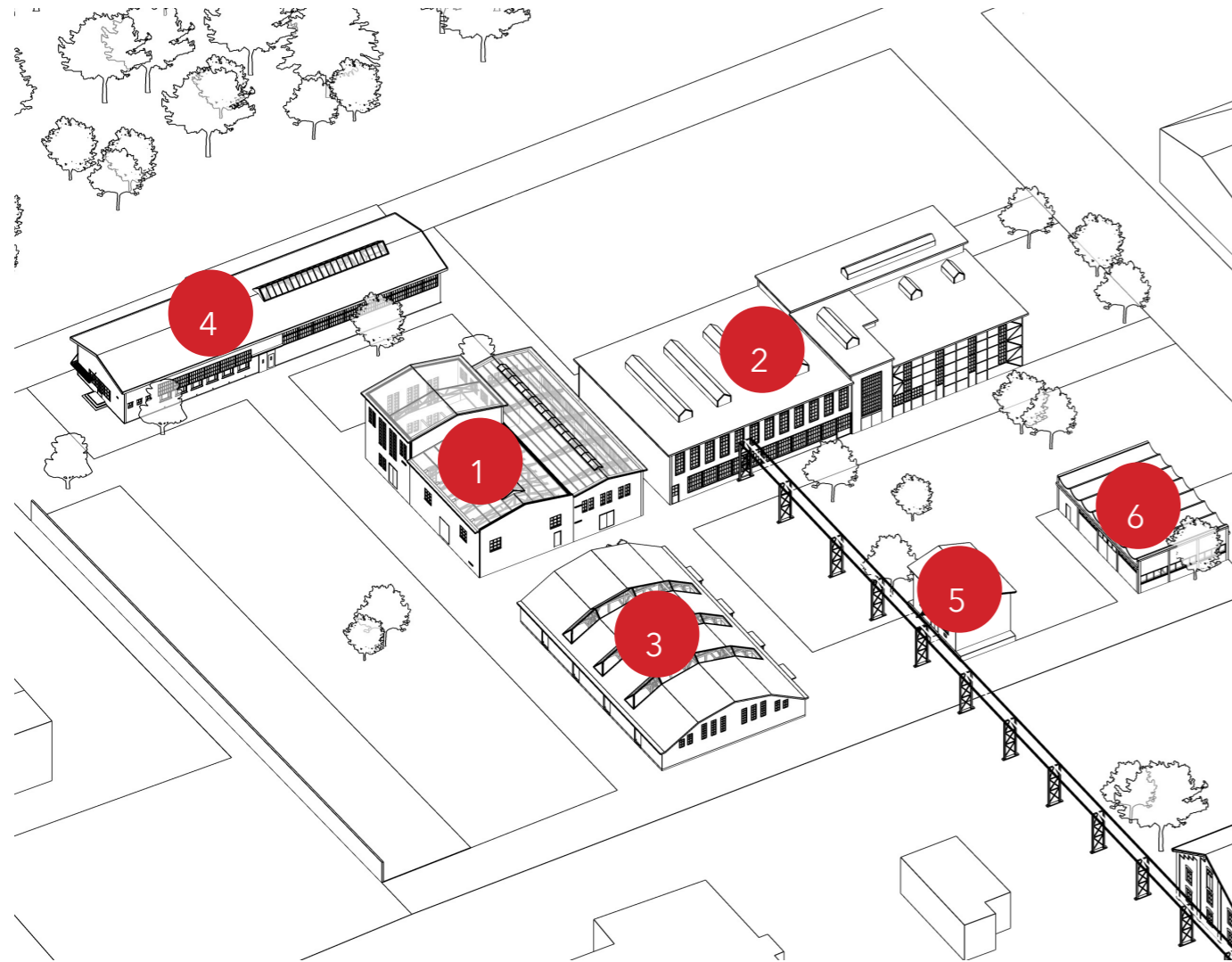
Exposing campus south



Development of Campus South



Buildings on Campus South



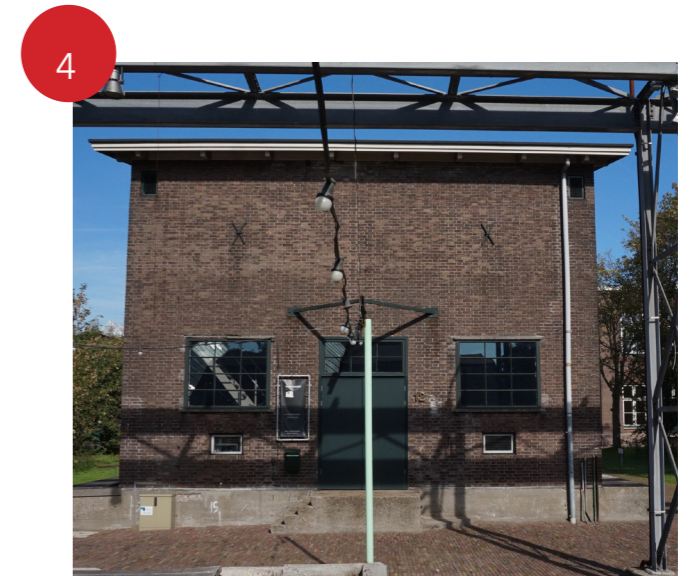
Harderij



Overslagloods



Ketelcentrale



Carbidgebouw

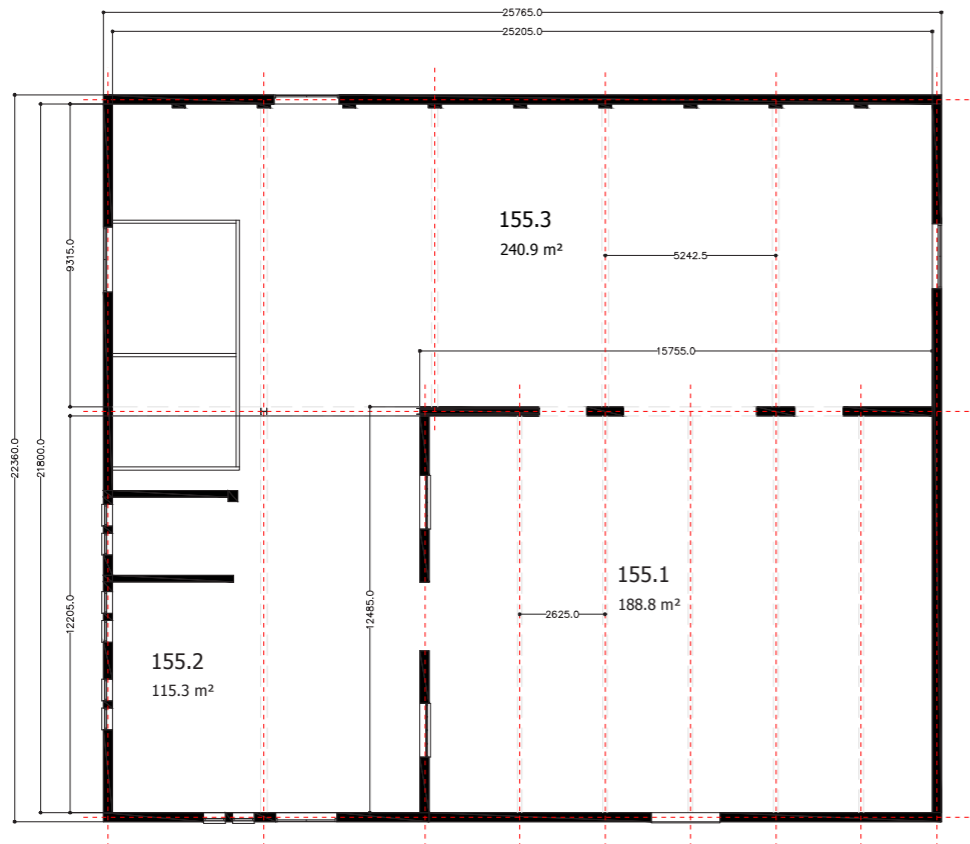
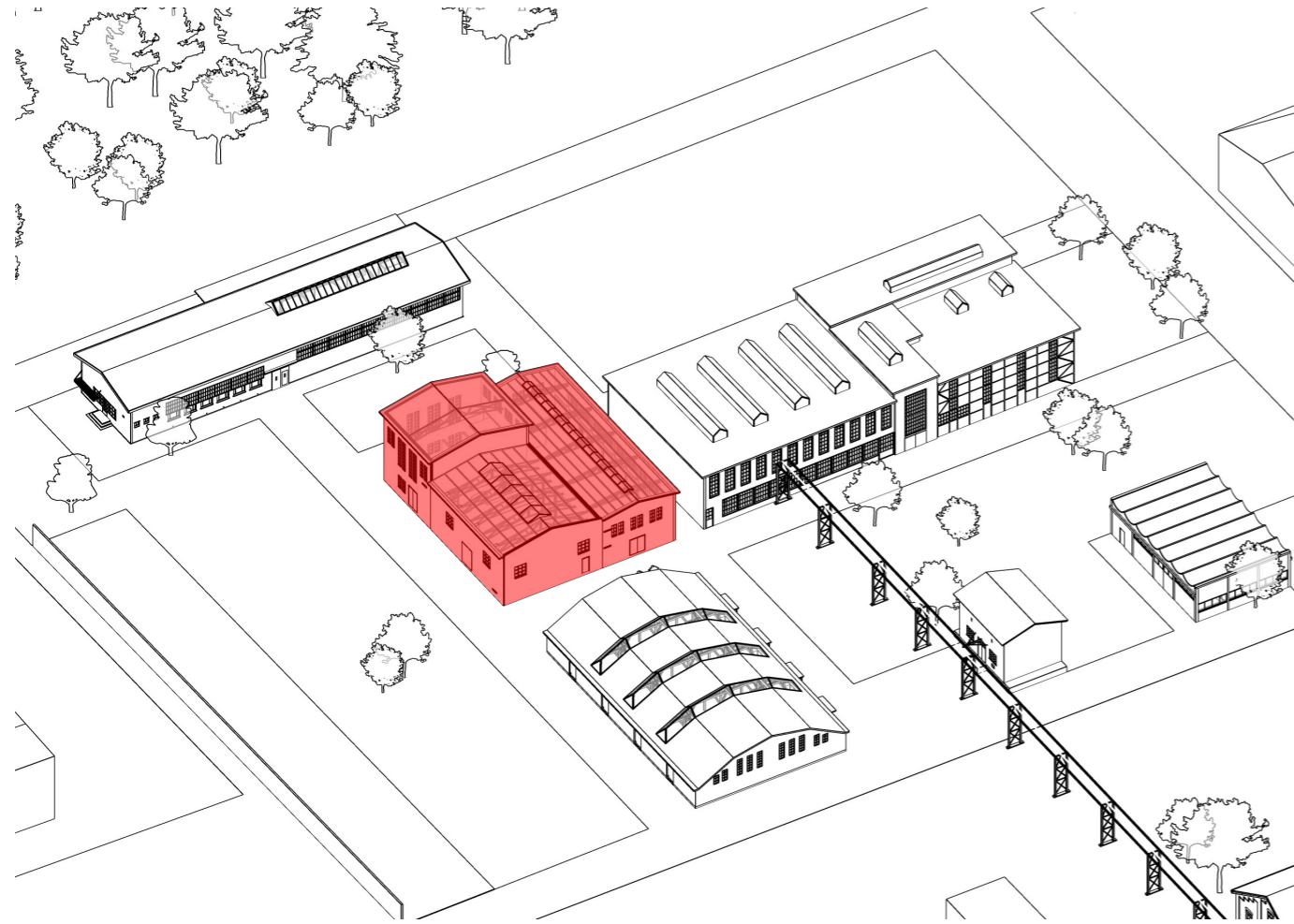


Waslokaal

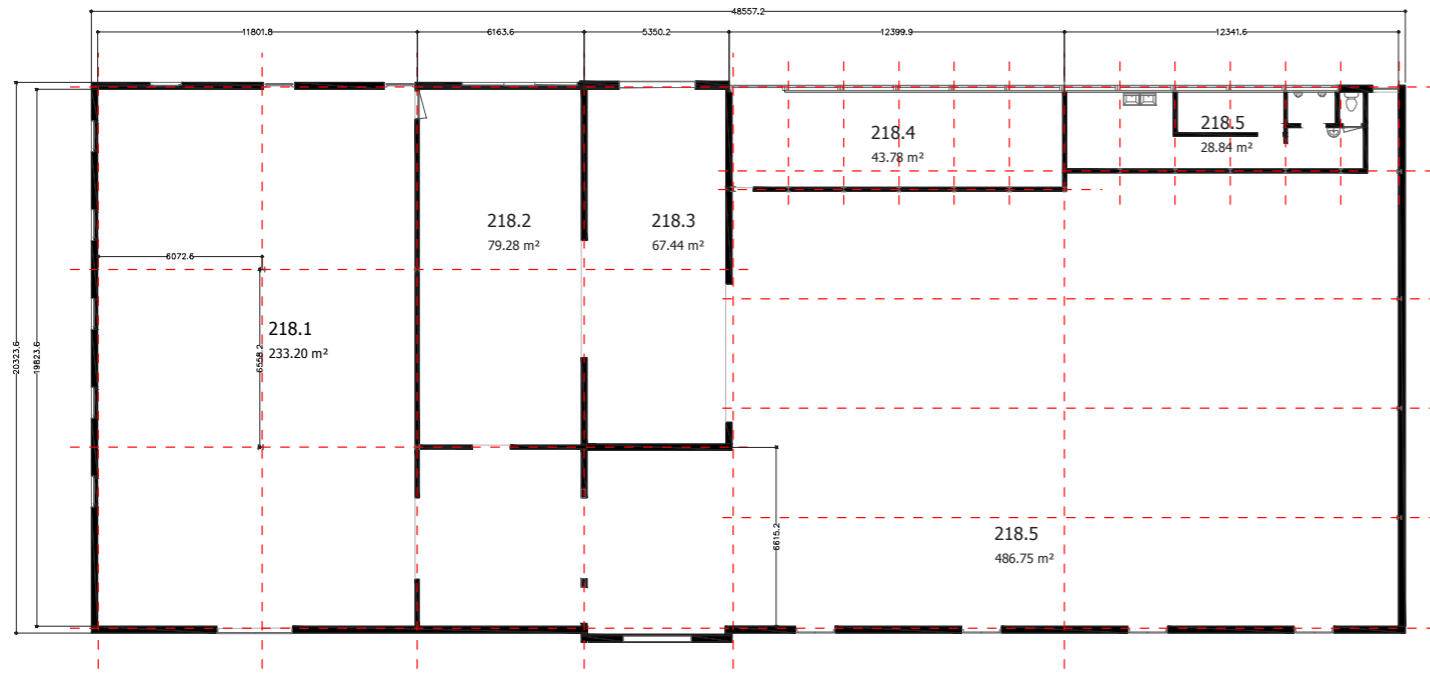
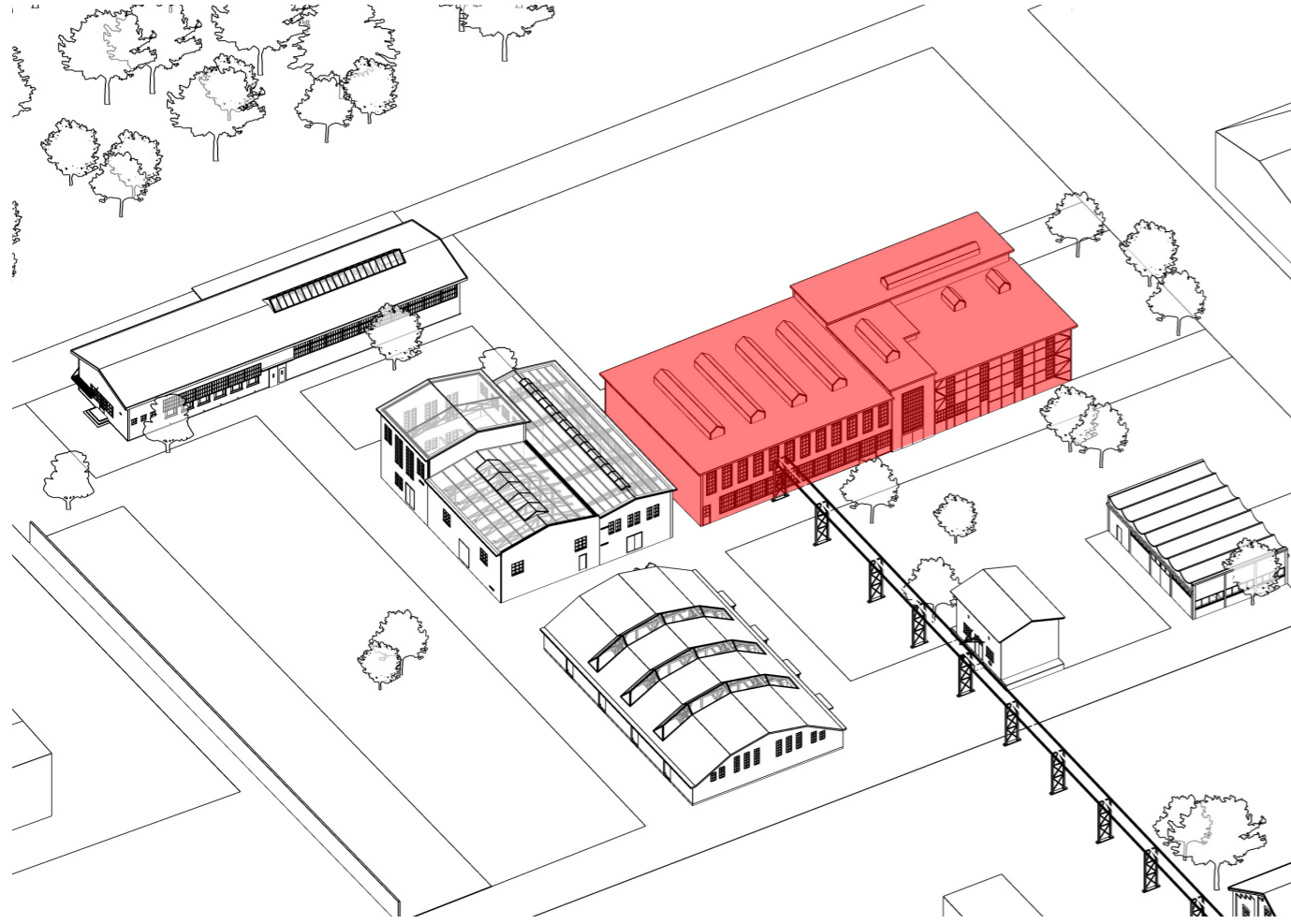


Lorriegarage

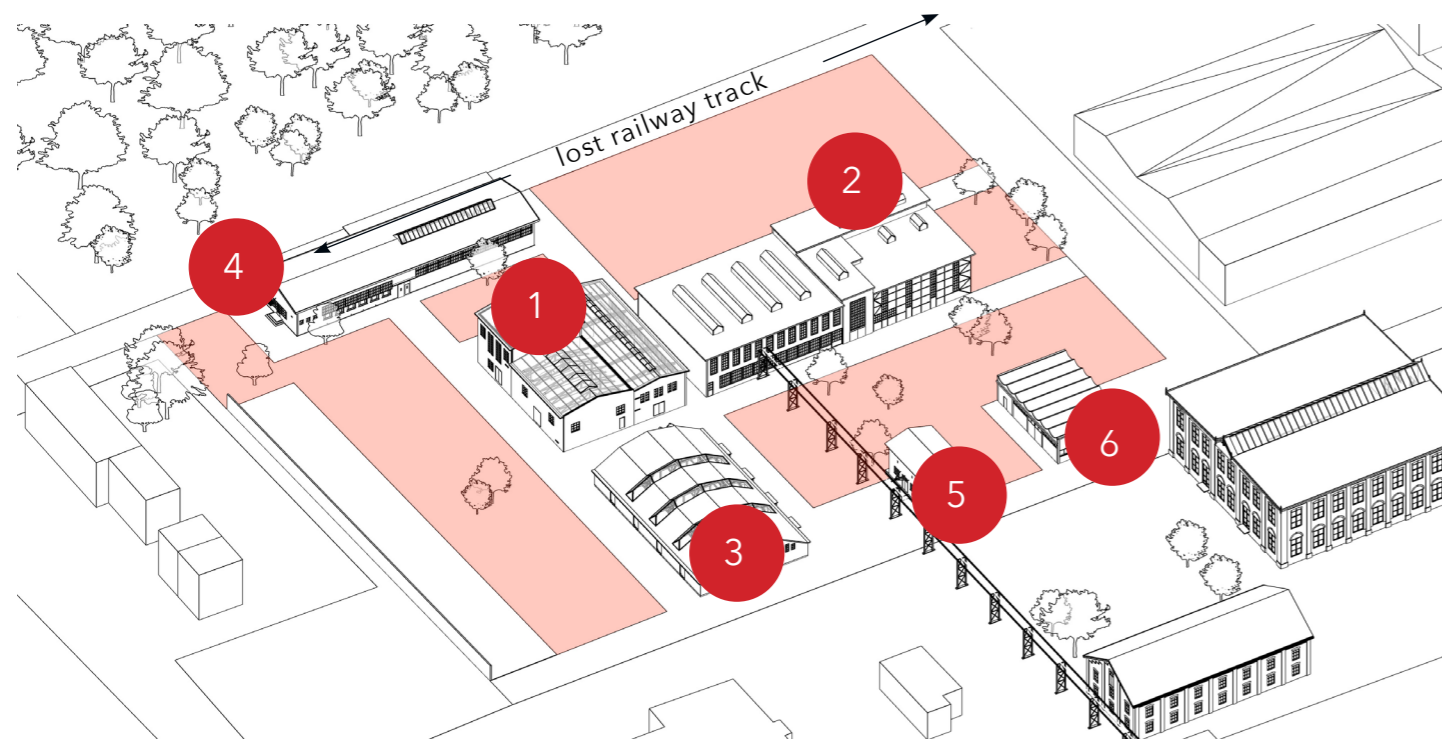
Harderij



Ketelcentrale

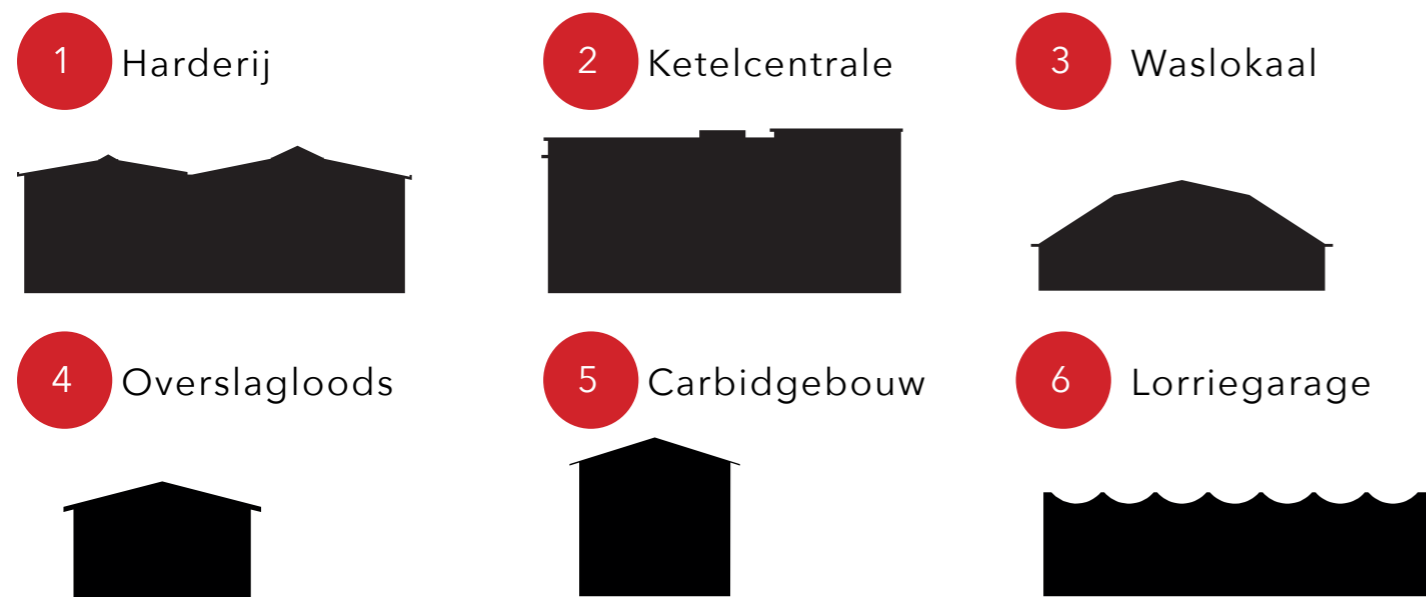


Characteristics



Distributing function & steam line axis

Campuses



Different typologies

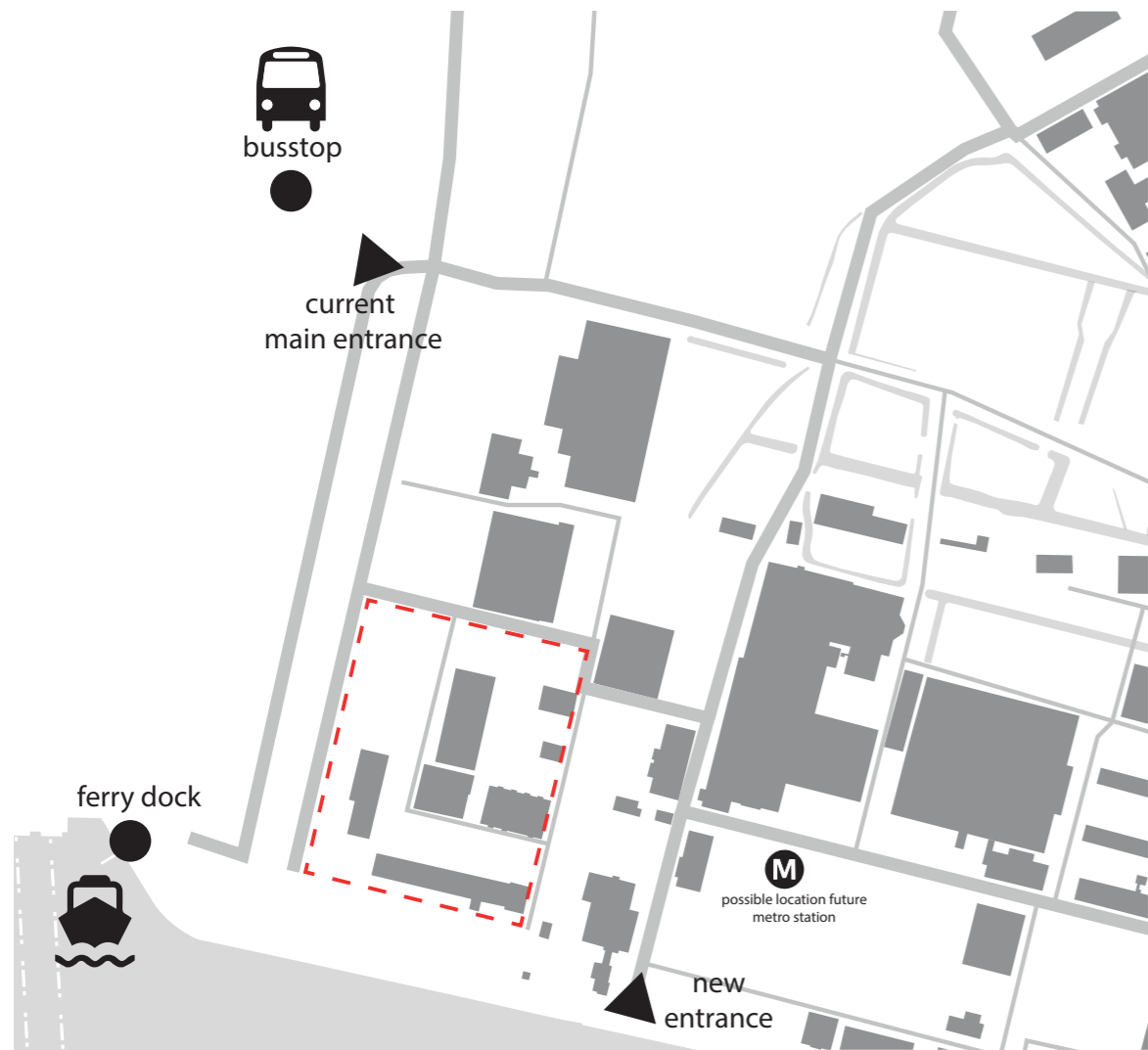
“What contributes to the inviting composition of Campus South, and how did this contemporary composition come into existence?”

“building plots on a ‘carpet’ of grass with trees...”

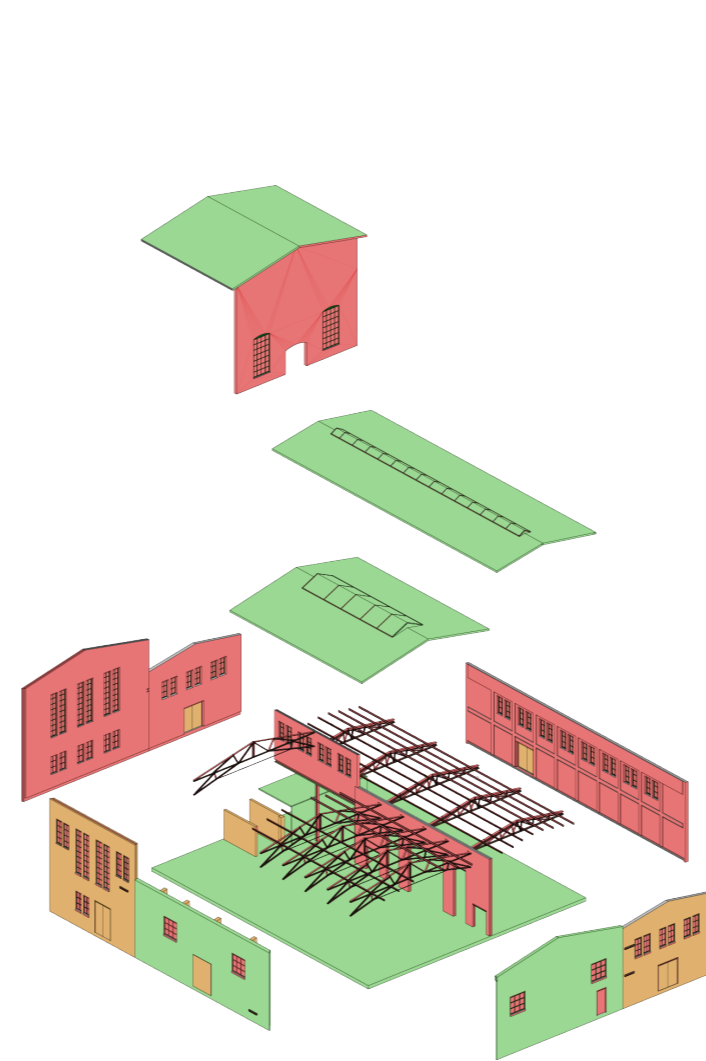


SOURCE: presentation Palmbout 'Hembrug - Redesigning a military-industrial estate

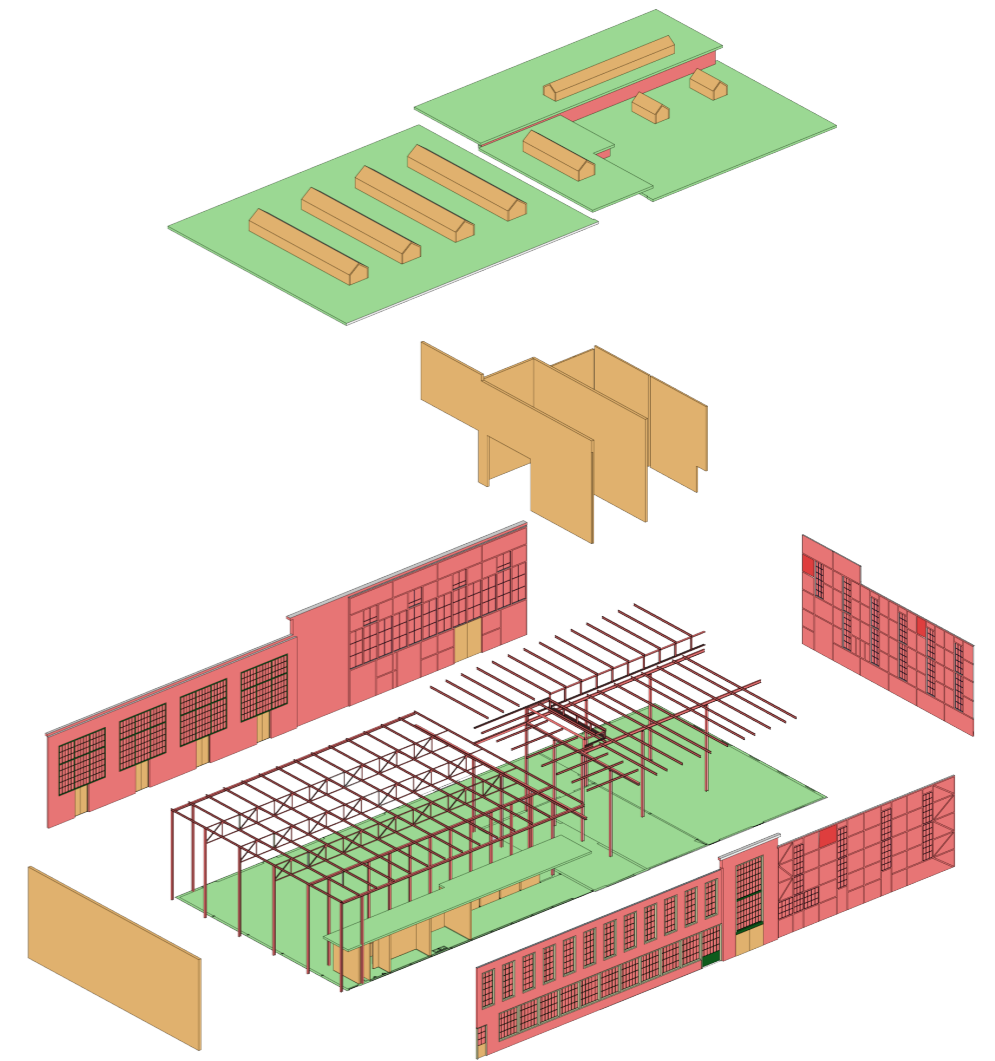
Values



Entrances



Harderij



Ketelcentrale

Visiting experience



Harderij interior



Harderij interior



Functional essence



Ketelcentrale interior

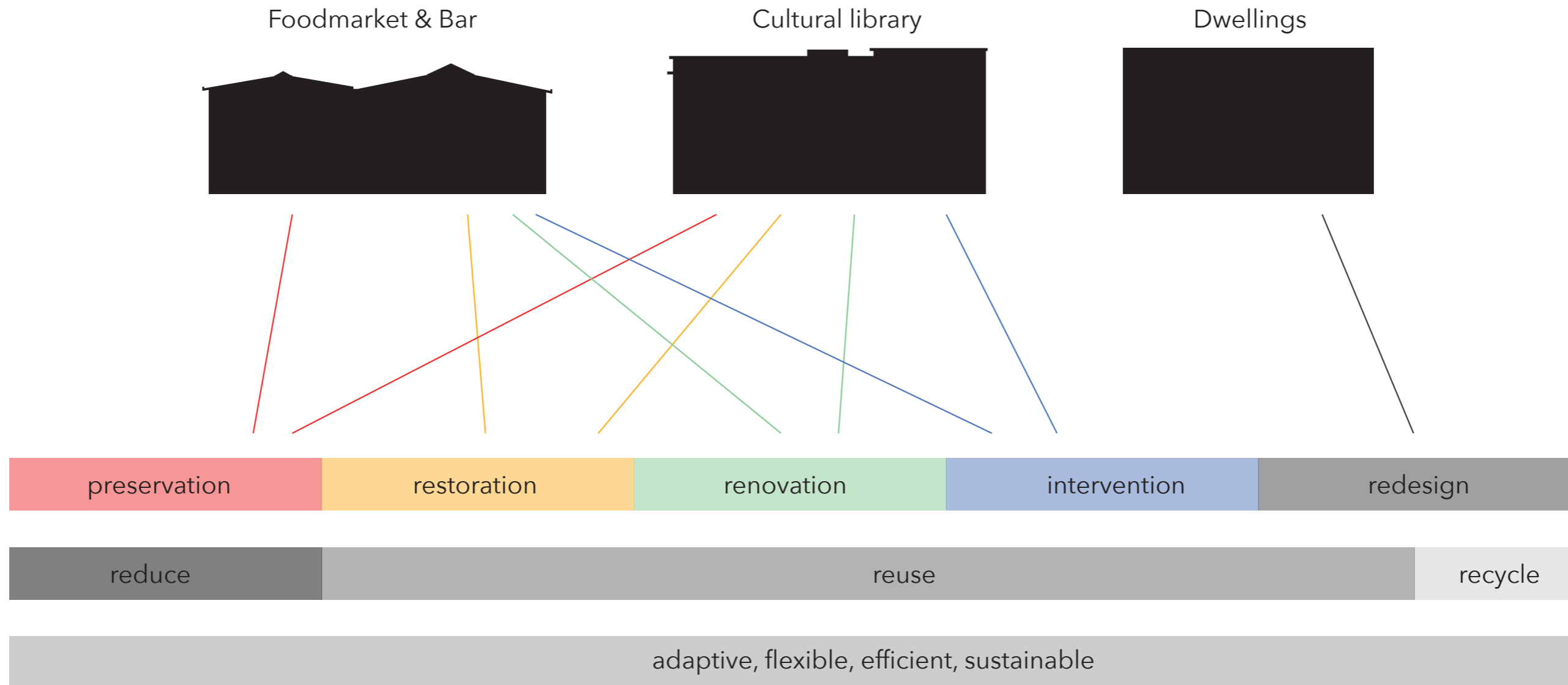


Ketelcentrale interior

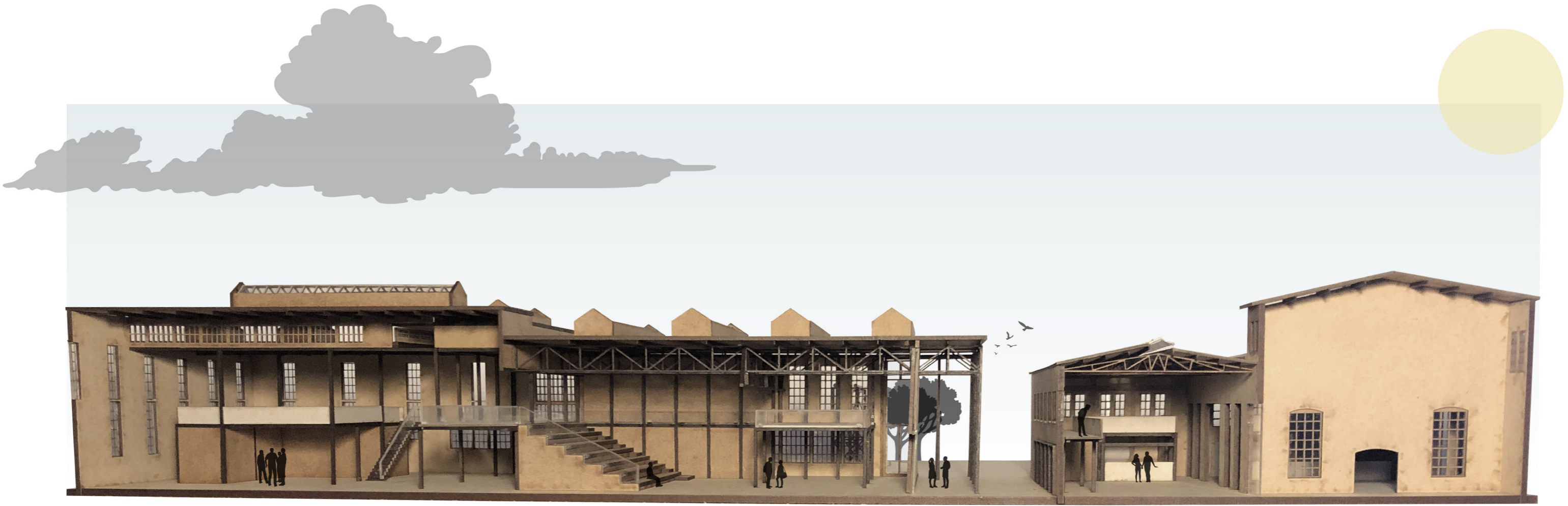


Steam pipe axis

“Until which lengths are the existing characteristics and atmosphere leading in the design, and what do we maintain, renew or restore to create an ideal and future-proof environment that suits the new use?”

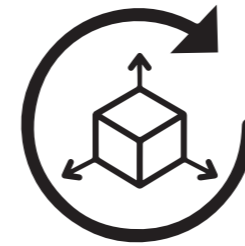


- preservation:** existing textures of structures leading for future - preserve what makes the character - only demolish if necessary for proper future usage
- restoration:** appreciation of existing - repair and cleaning
- renovation:** upgrading to present-day & future standards
- intervention:** inspired on the existing - yet identifiable as a new part of the total structure
 - permanent:** groundwork for future adaptations - ensuring that the building can suit a communal program
 - temporary:** demountable, adaptable to future changes
- redesign:** reacting respectfully on the existing, creates a new urban layout needed for the new program

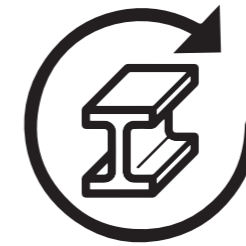


Sustainability

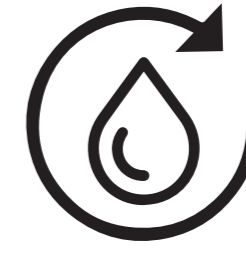
Circularity & Collaboration



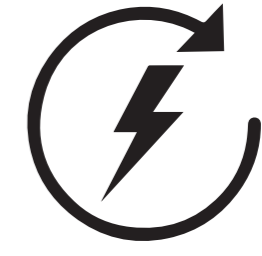
Space



Material



Water



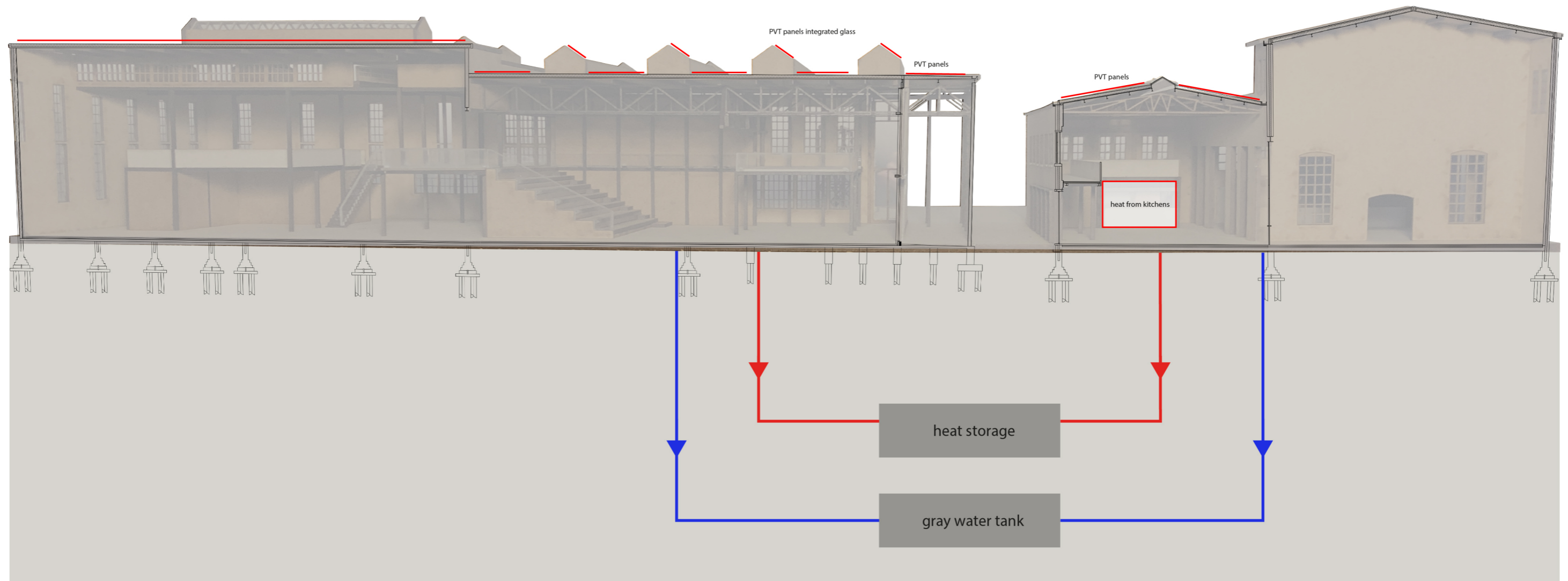
Electricity

Ketelcentrale

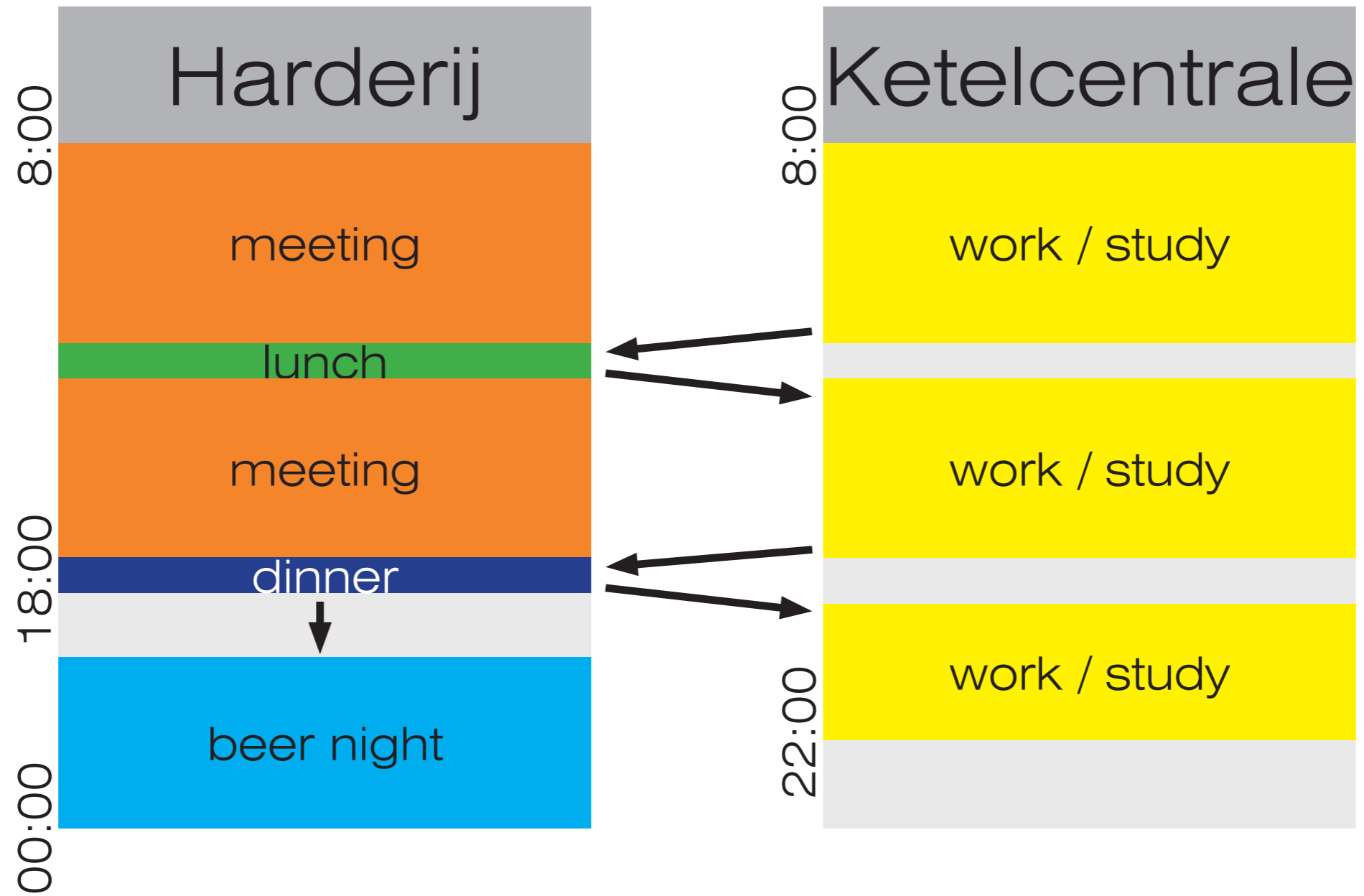
- Heat from PVT
- Gray water collection and reuse
- Insulated cavity, roof and floor
- Secondary window layer
- Demountable interior structure
- Zoning in floor heating/cooling
- Mechanical ventilation with heat exchange

Harderij

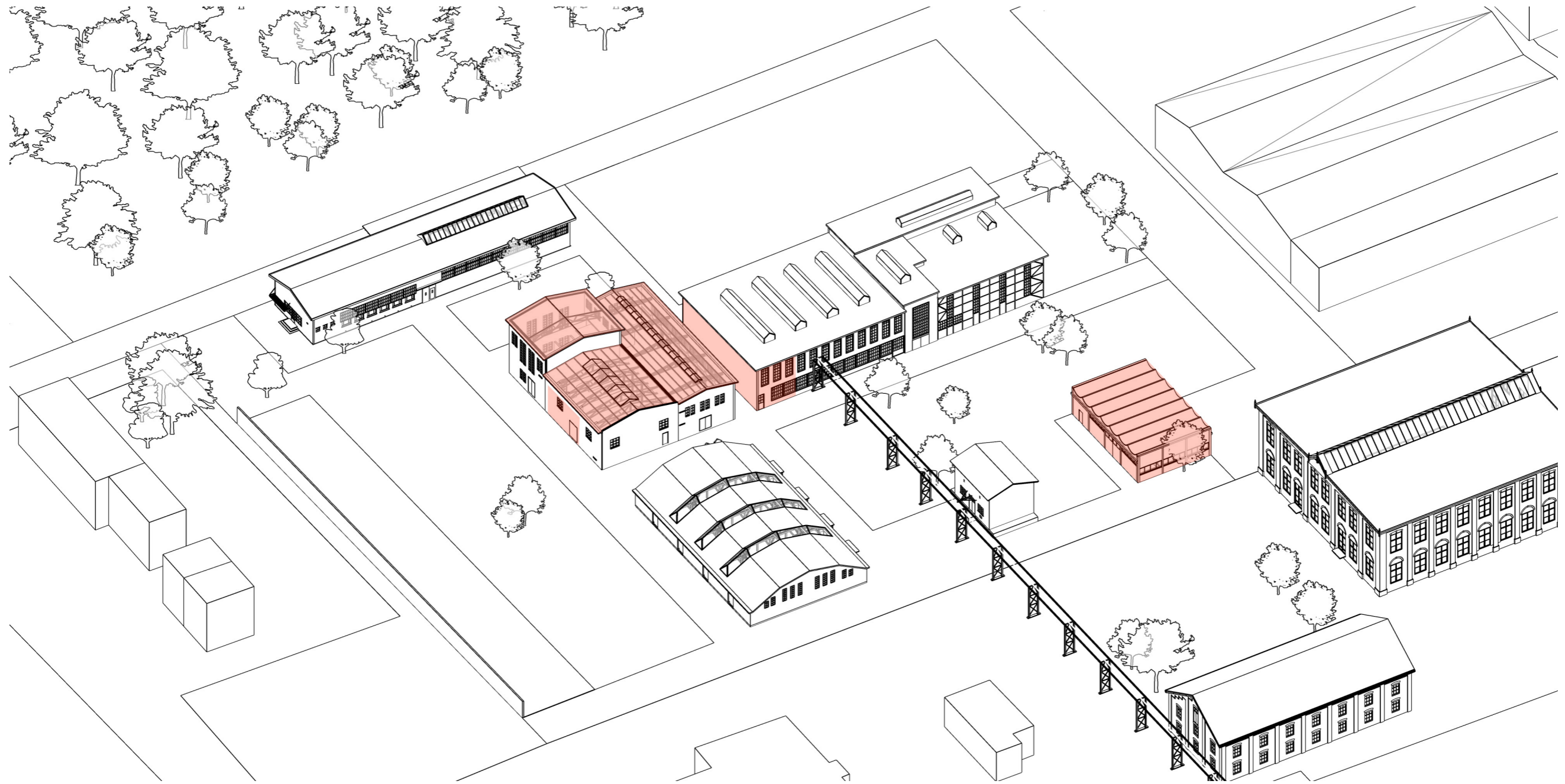
- Heat from PVT and kitchens
- Gray water collection and reuse
- Insulated cavity, roof and floor
- Secondary window layer
- Demountable interior structure
- Zoning in floor heating/cooling
- Mechanical ventilation with heat exchange



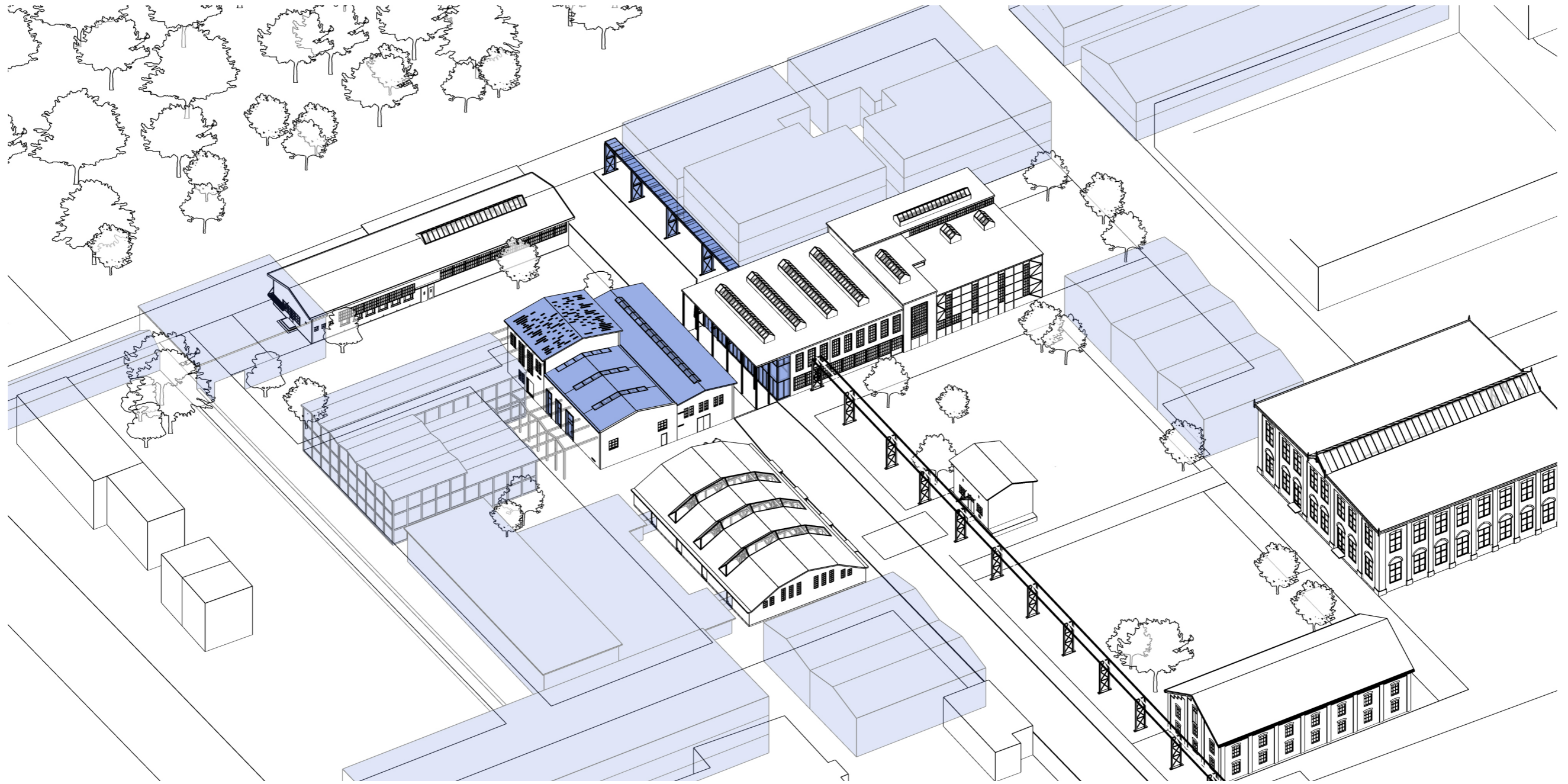
Collaboration in program



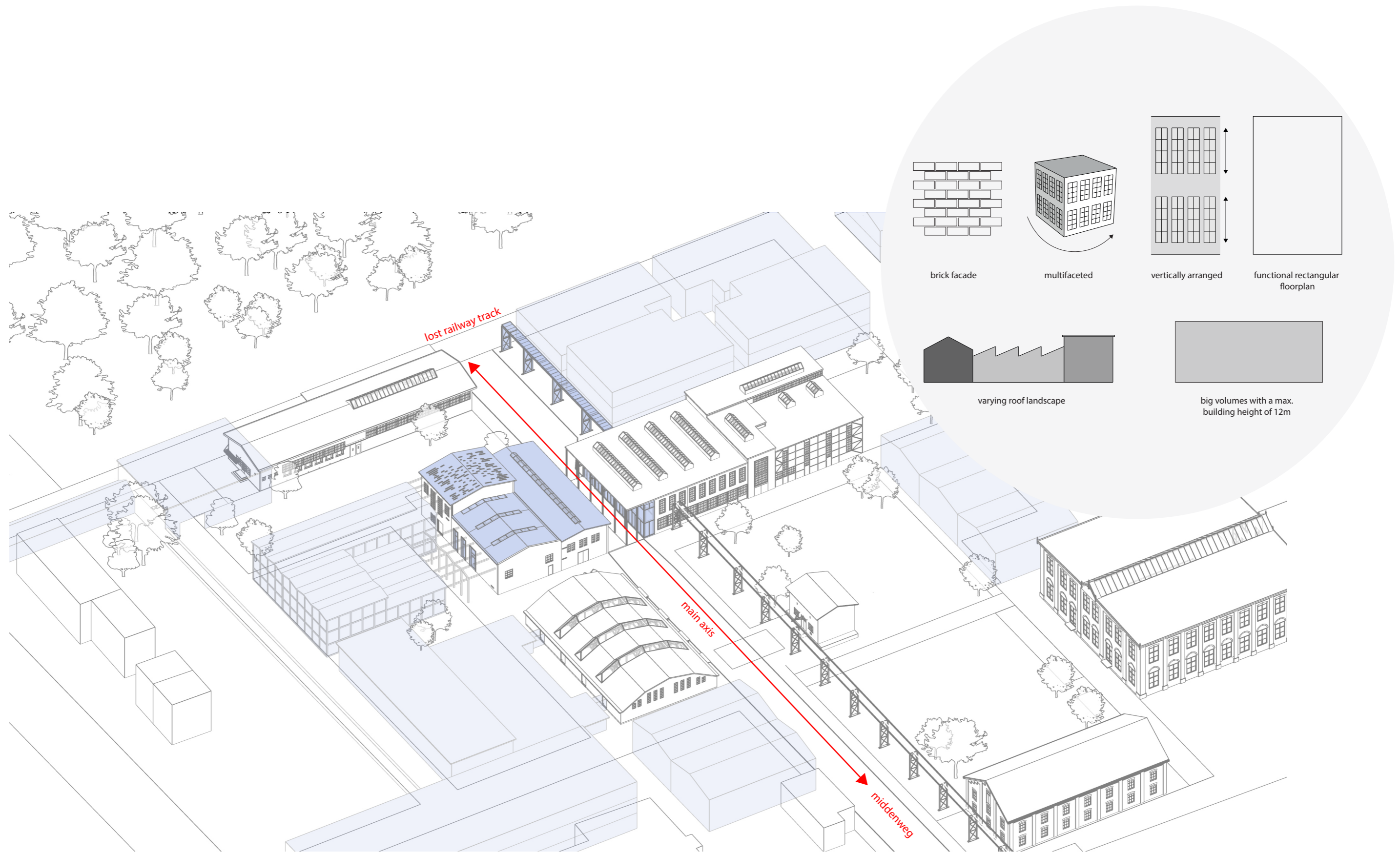
Demolished



Added



Site



Station

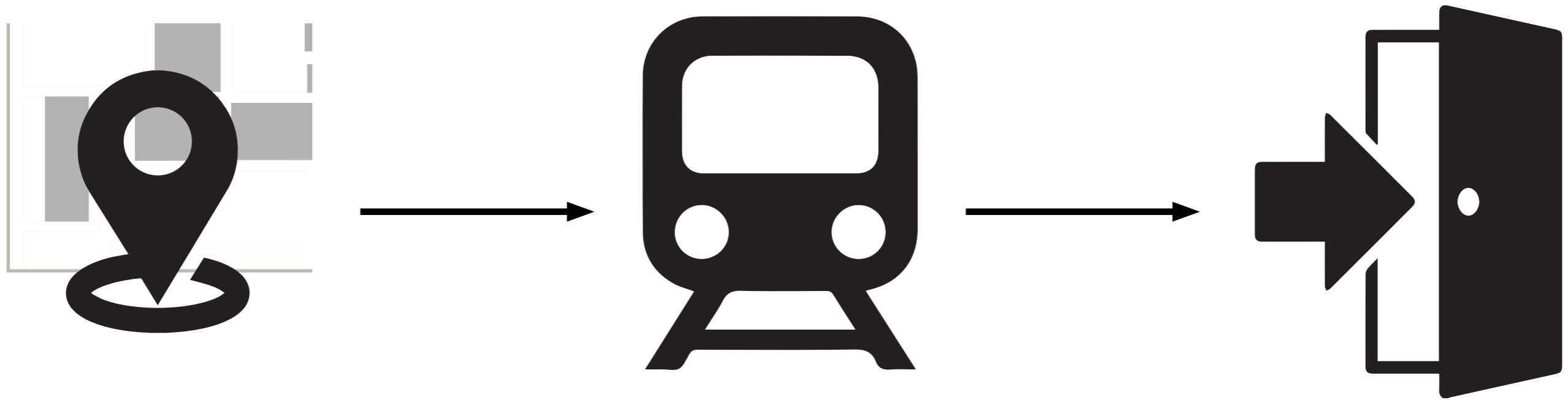


location Campus South

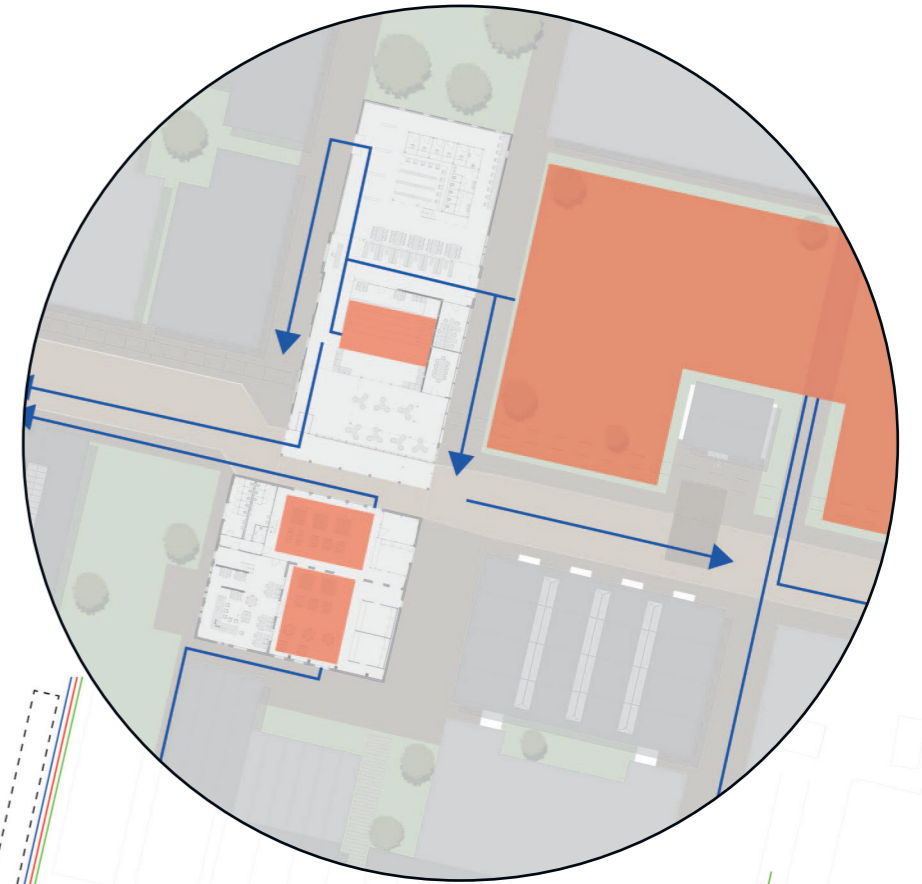


“the Station of Hembrug”

Entrance



Logistics



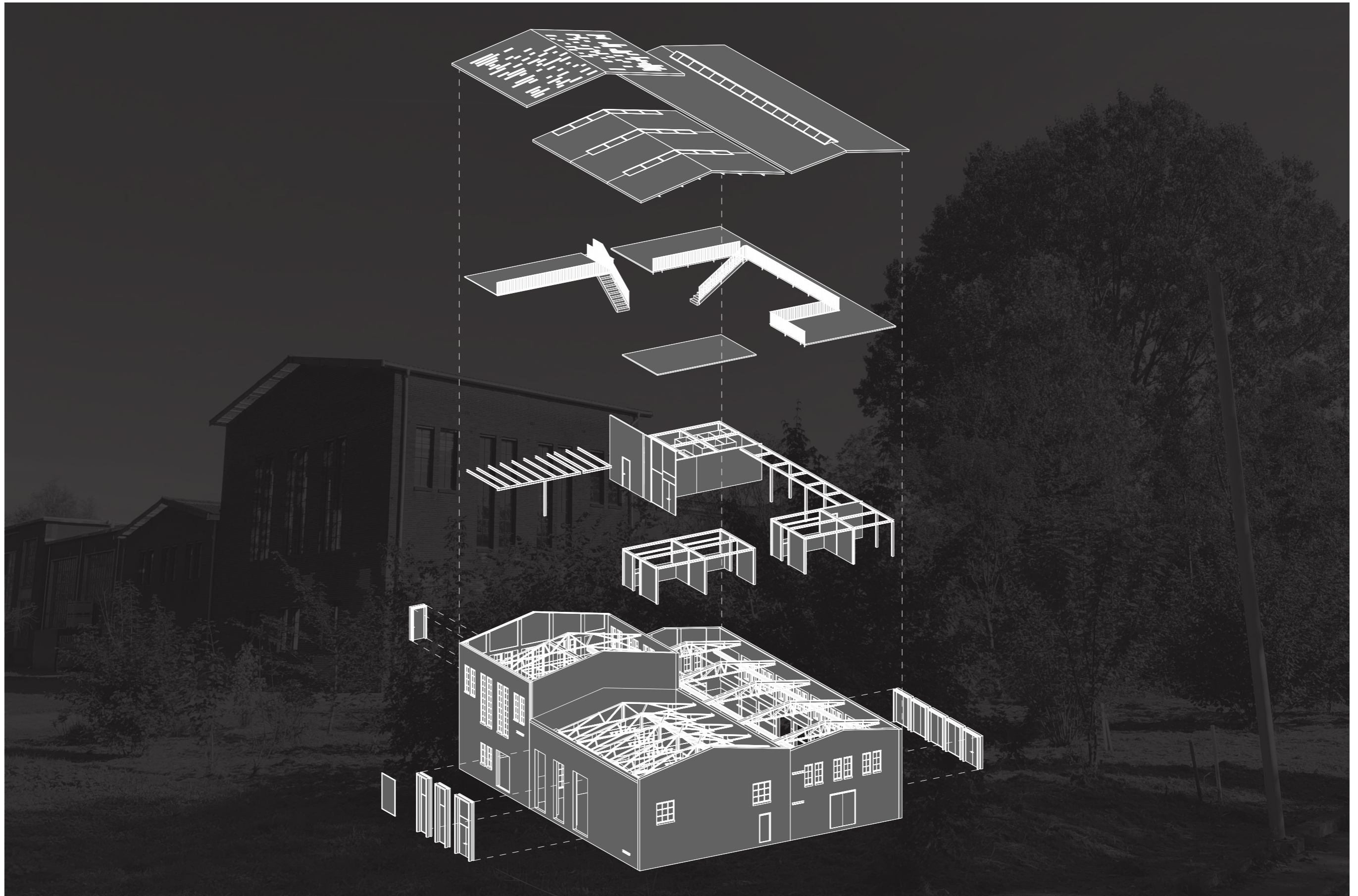
Normal



Events/large groups of people



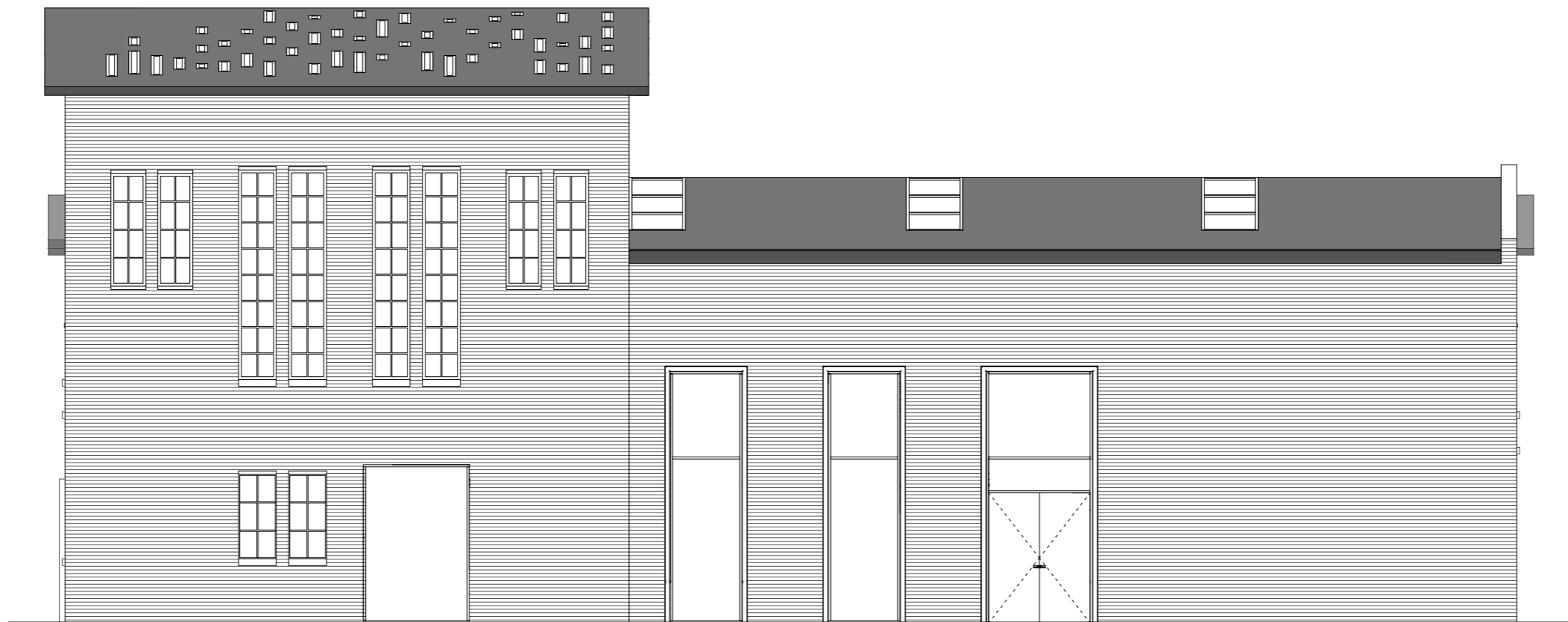
Interventions



Southern facade



existing



new

Western facade



existing



new

Northern facade



existing



new

Eastern facade

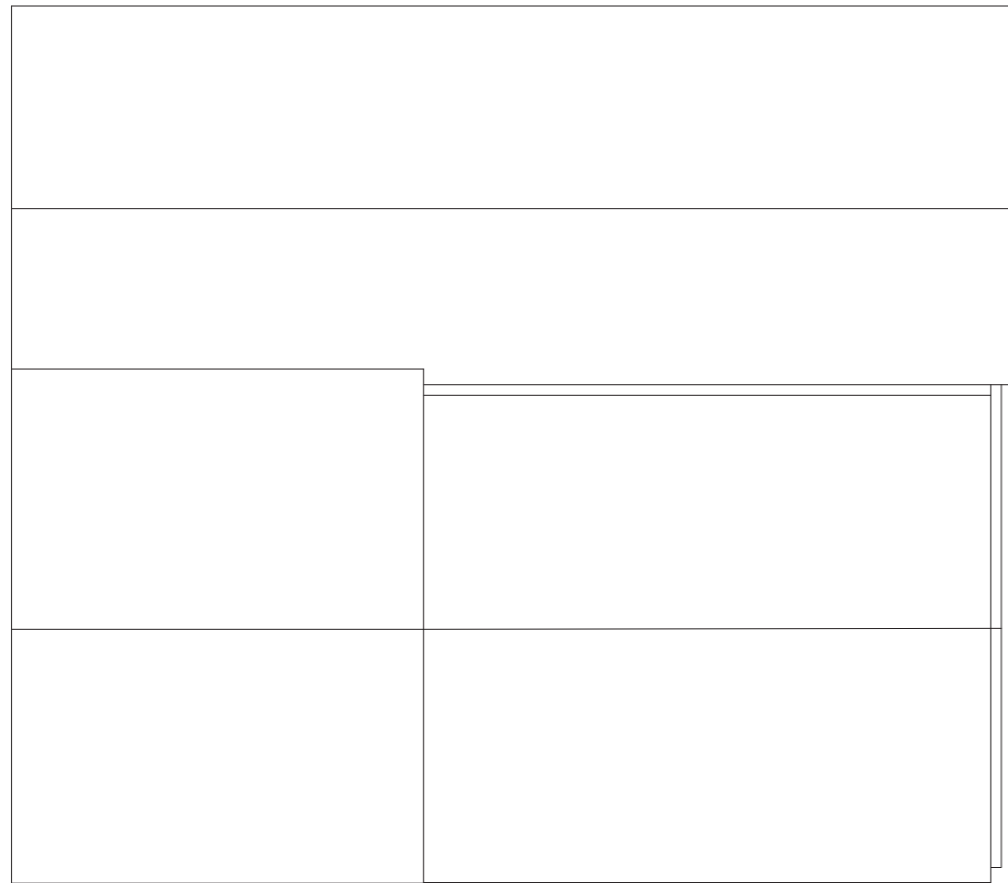


existing

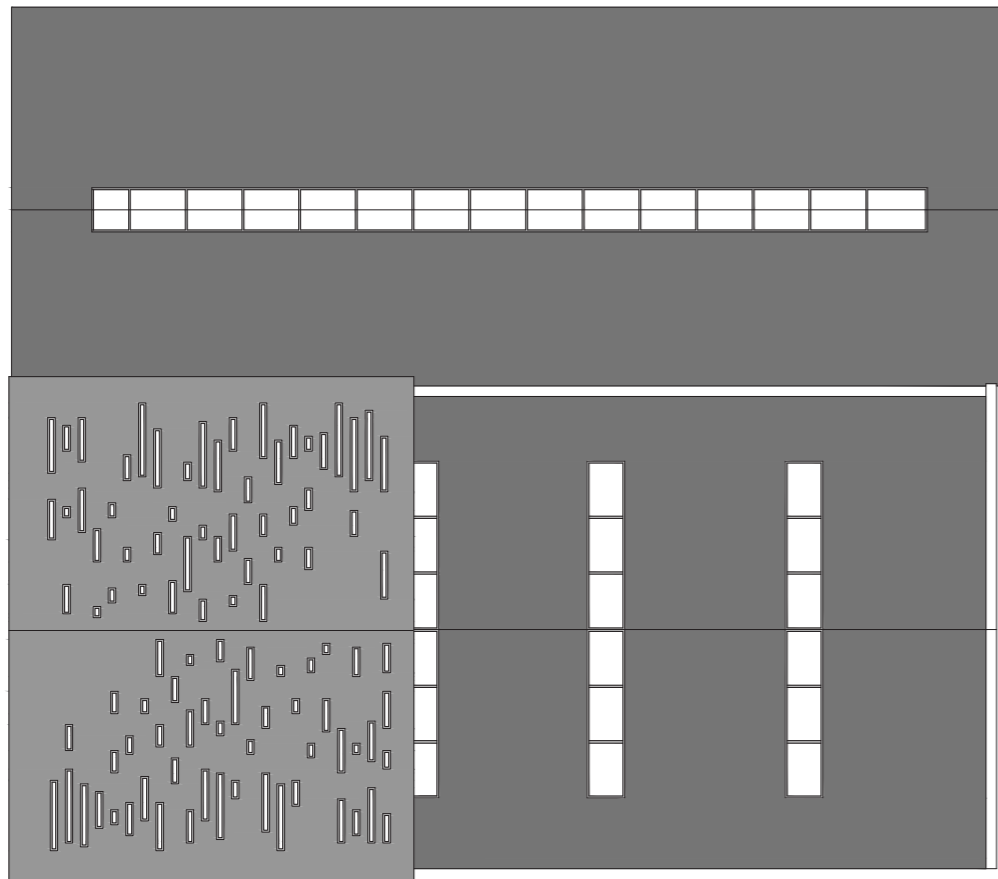


new

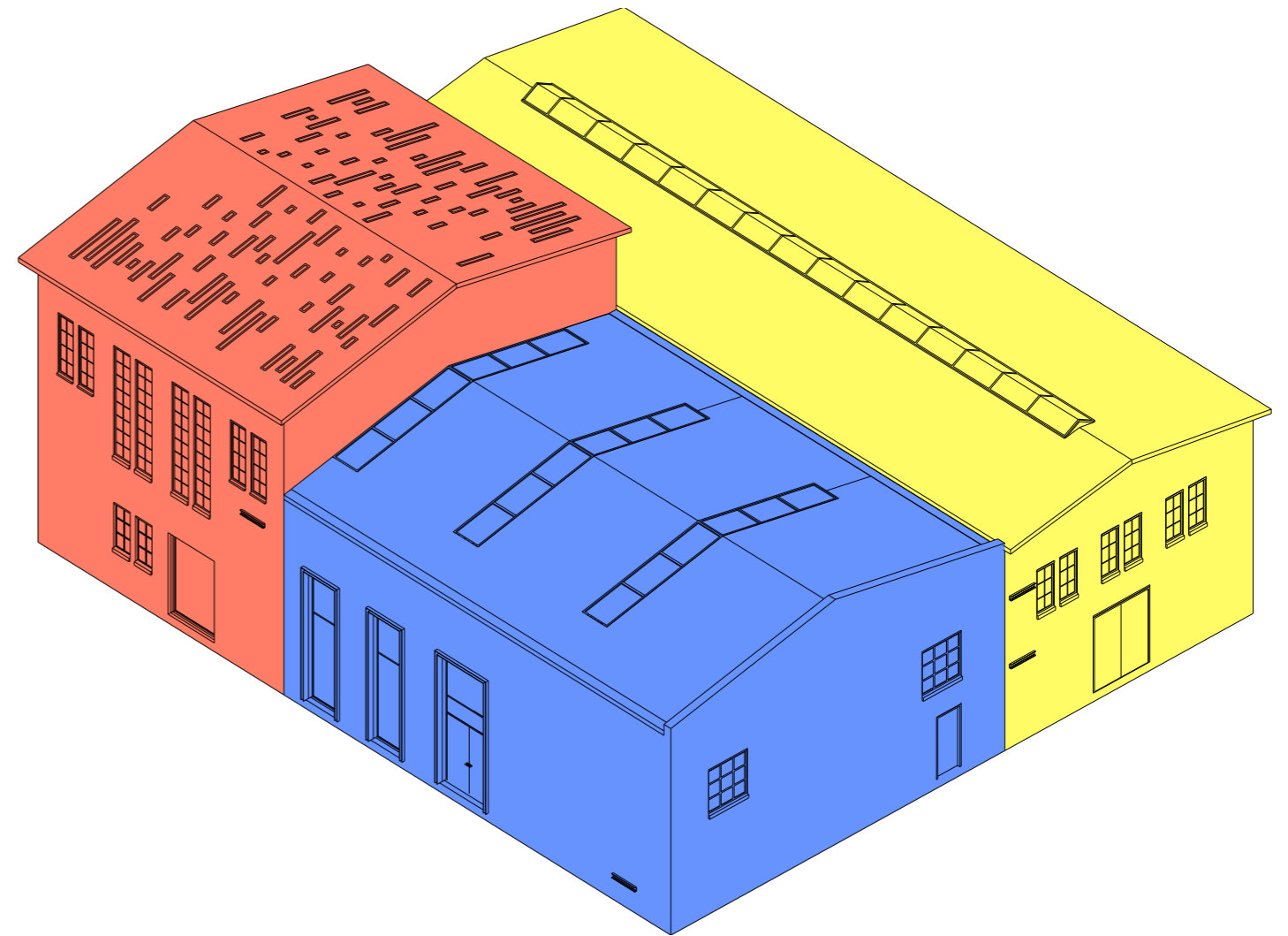
Tripletion emphasized



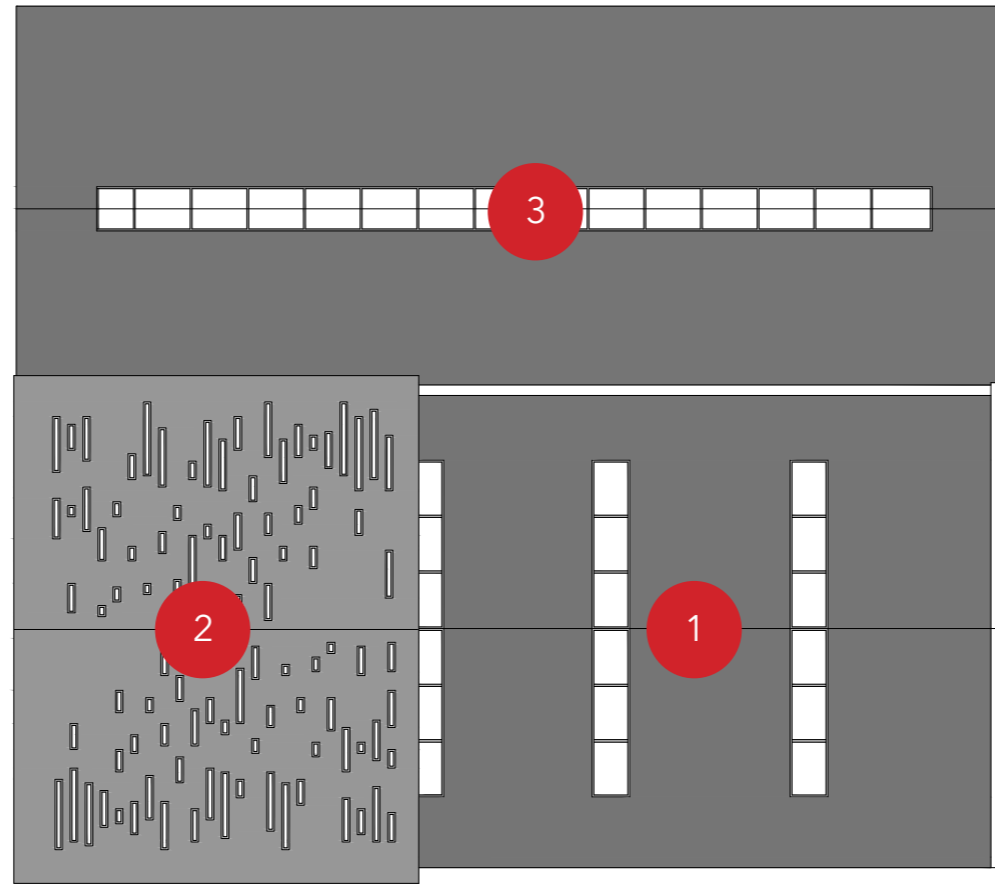
existing



new



Tripletion emphasized



1



2



3

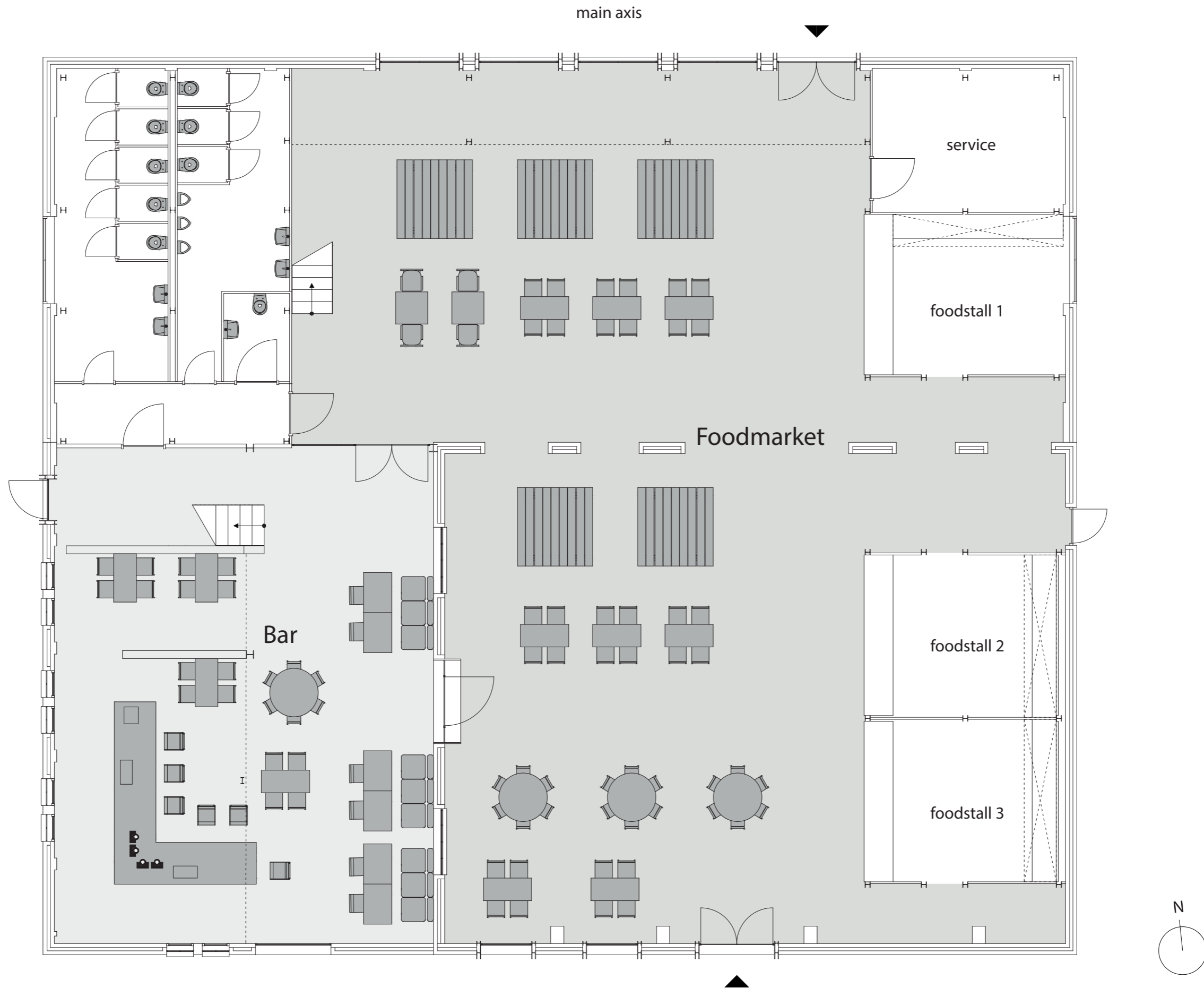


Ceiling material

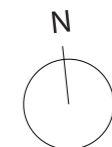
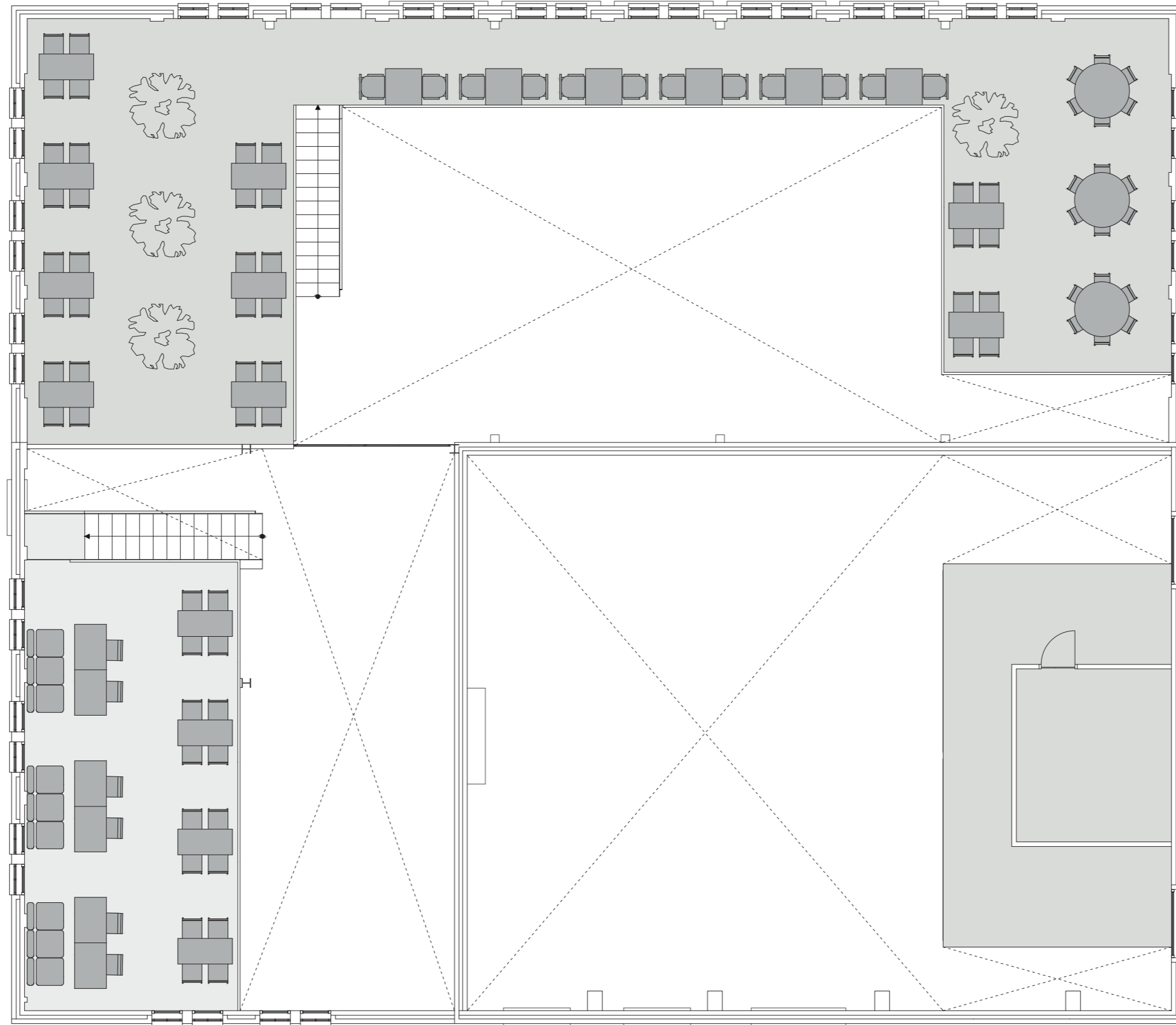


Fundación Botín - SOURCE: <https://urbannext.net/botin-foundation/>

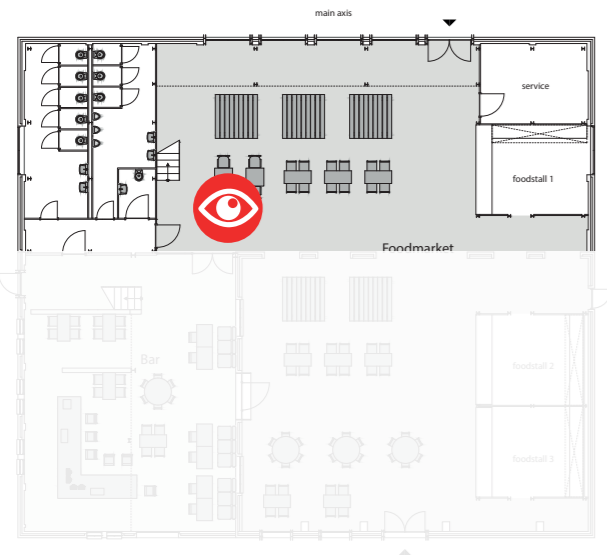
Ground floor



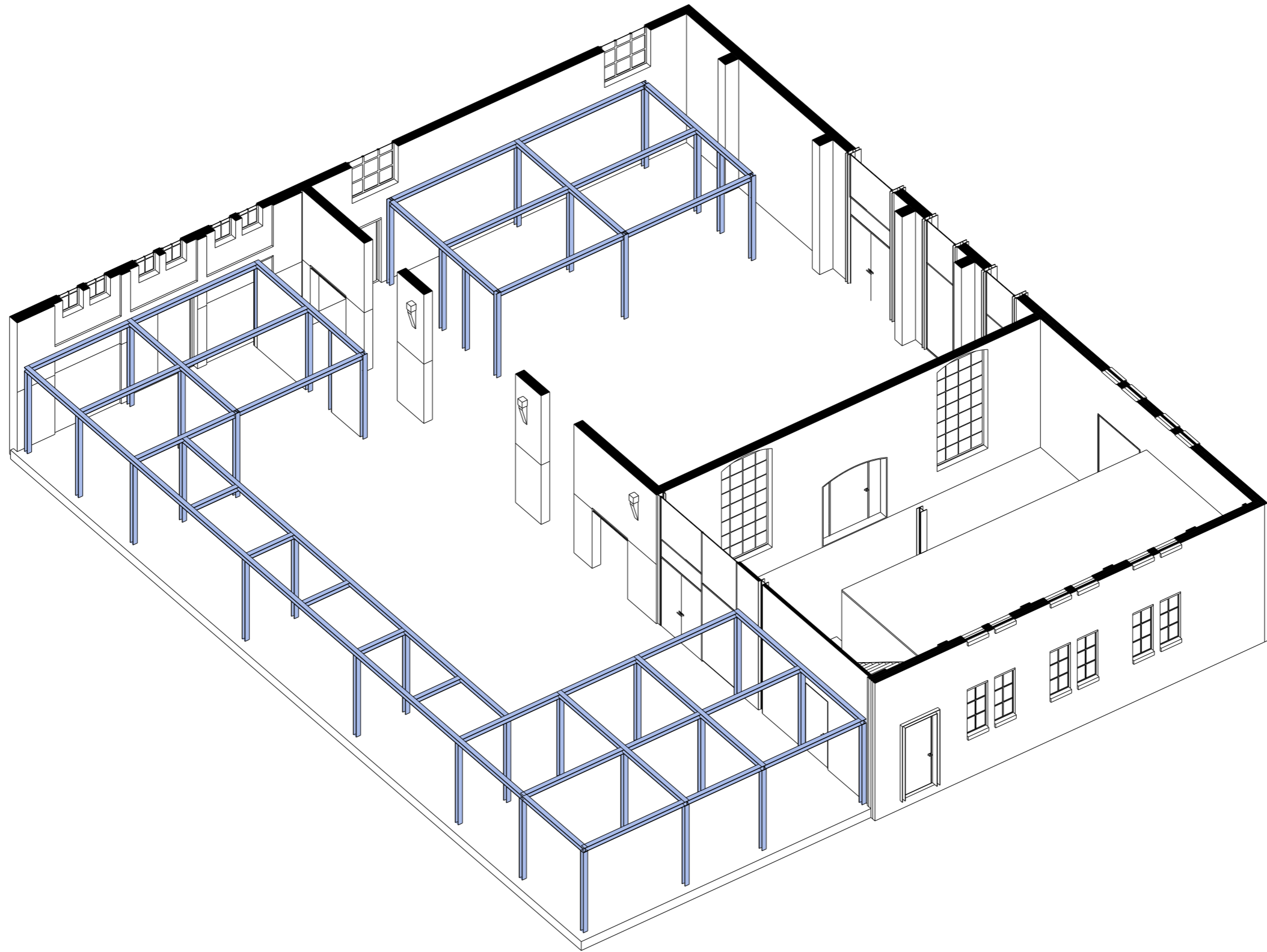
First floor



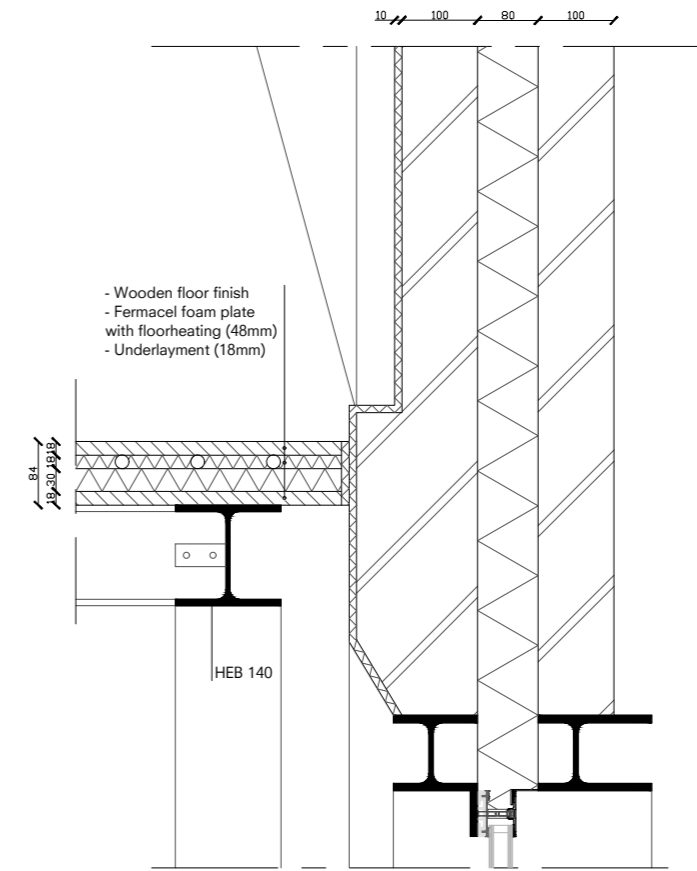
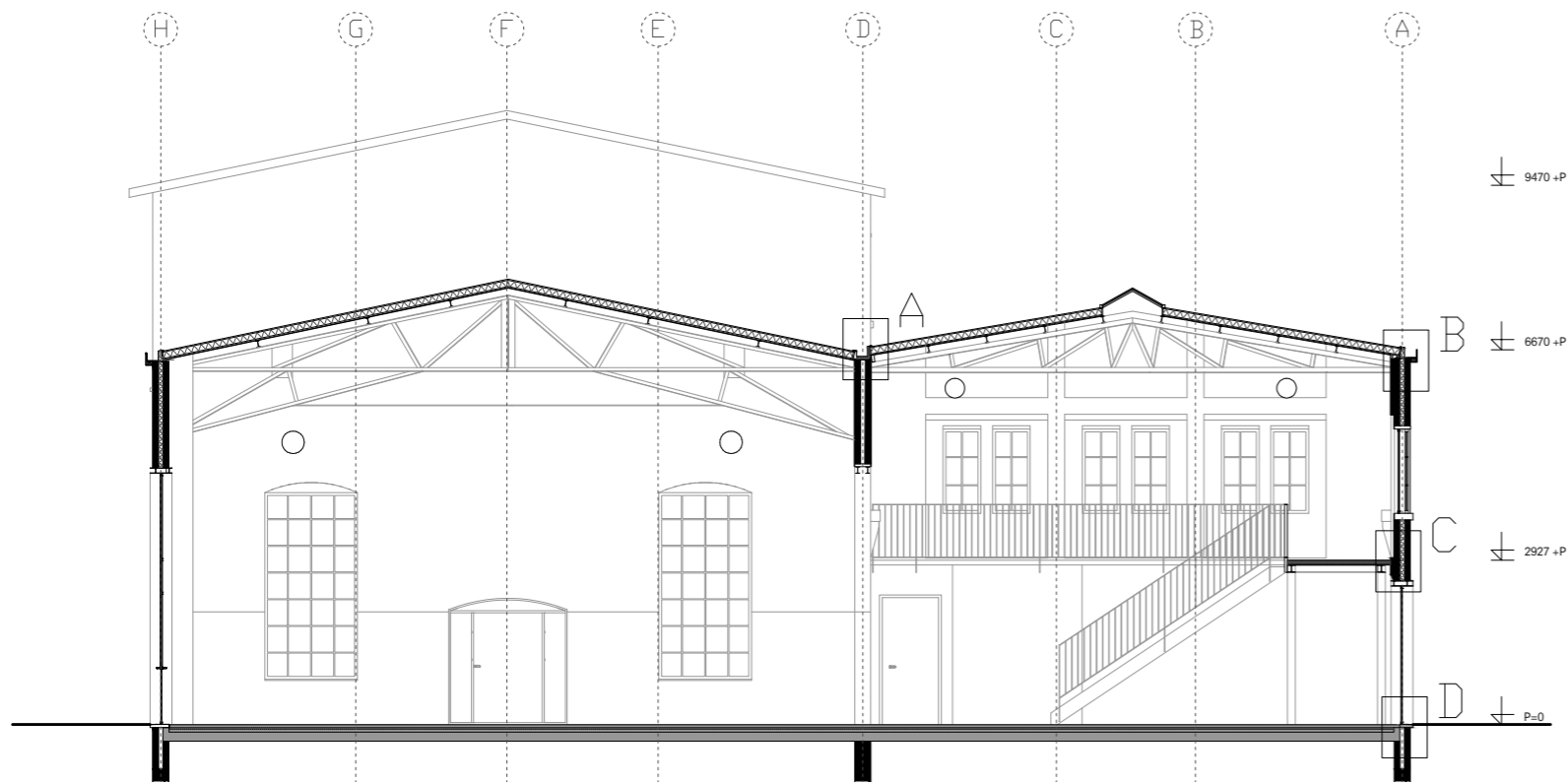
Foodmarket entresol



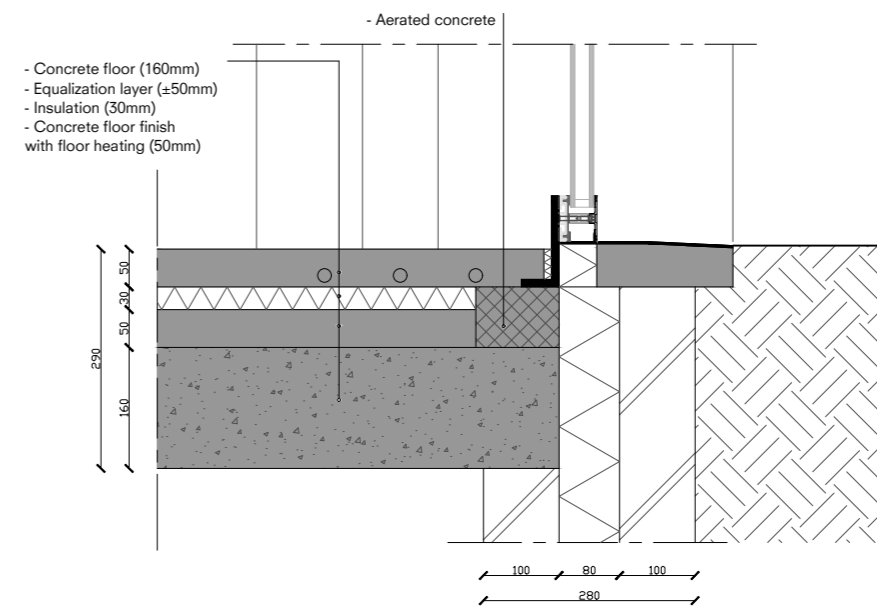
Demountable frame and floors



Details

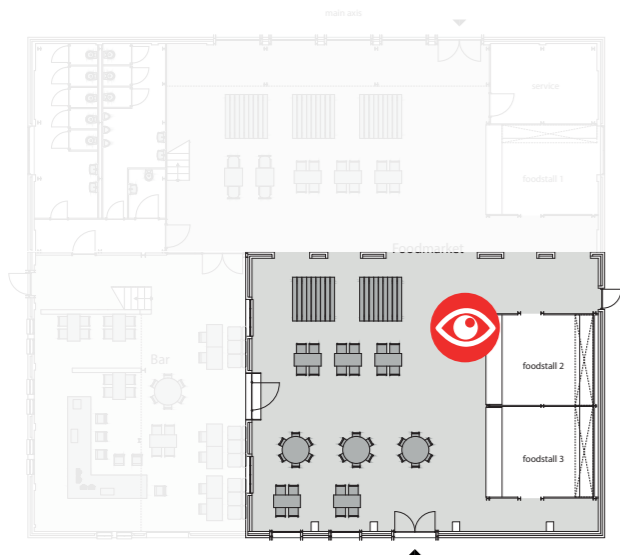


C

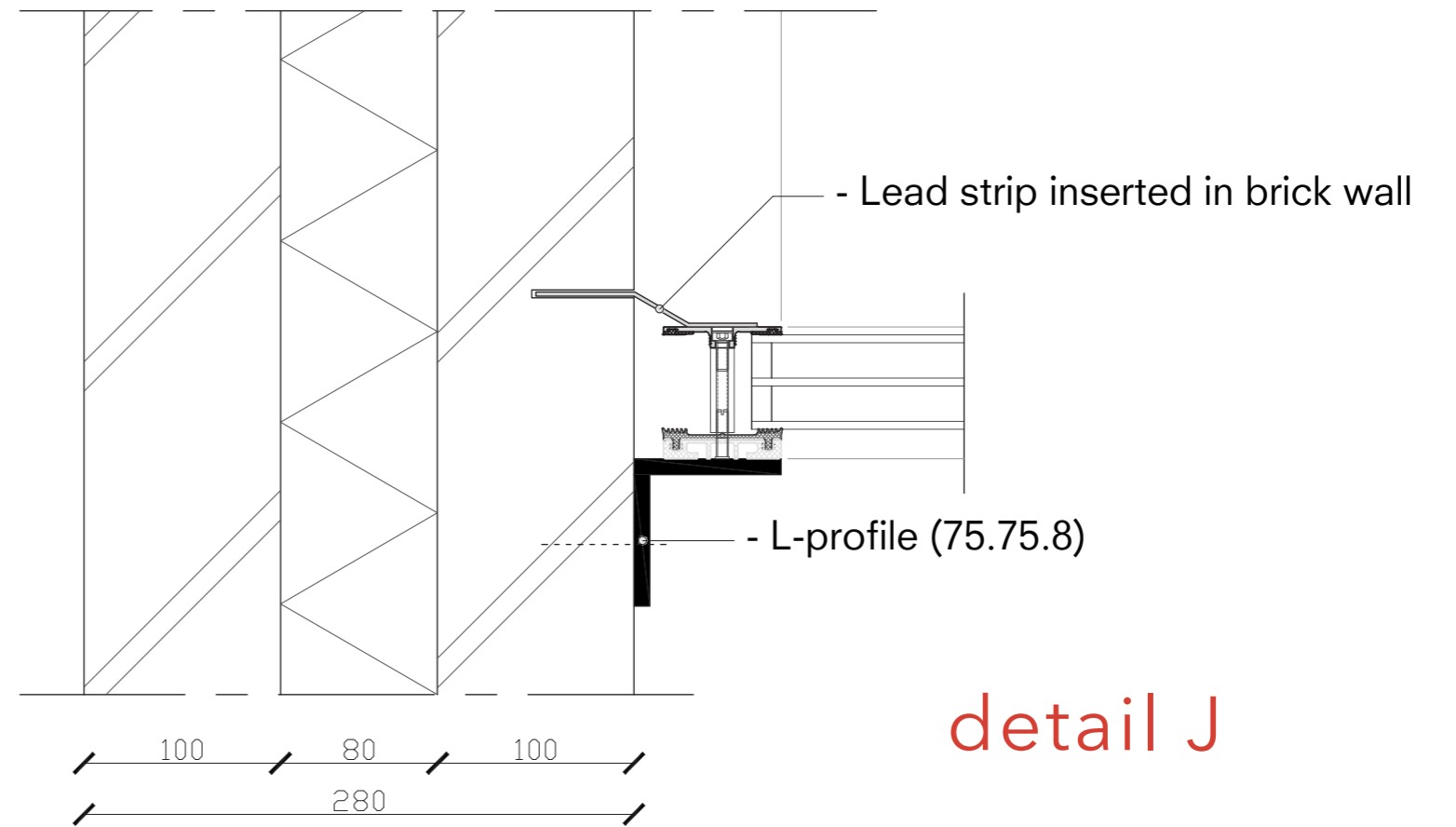
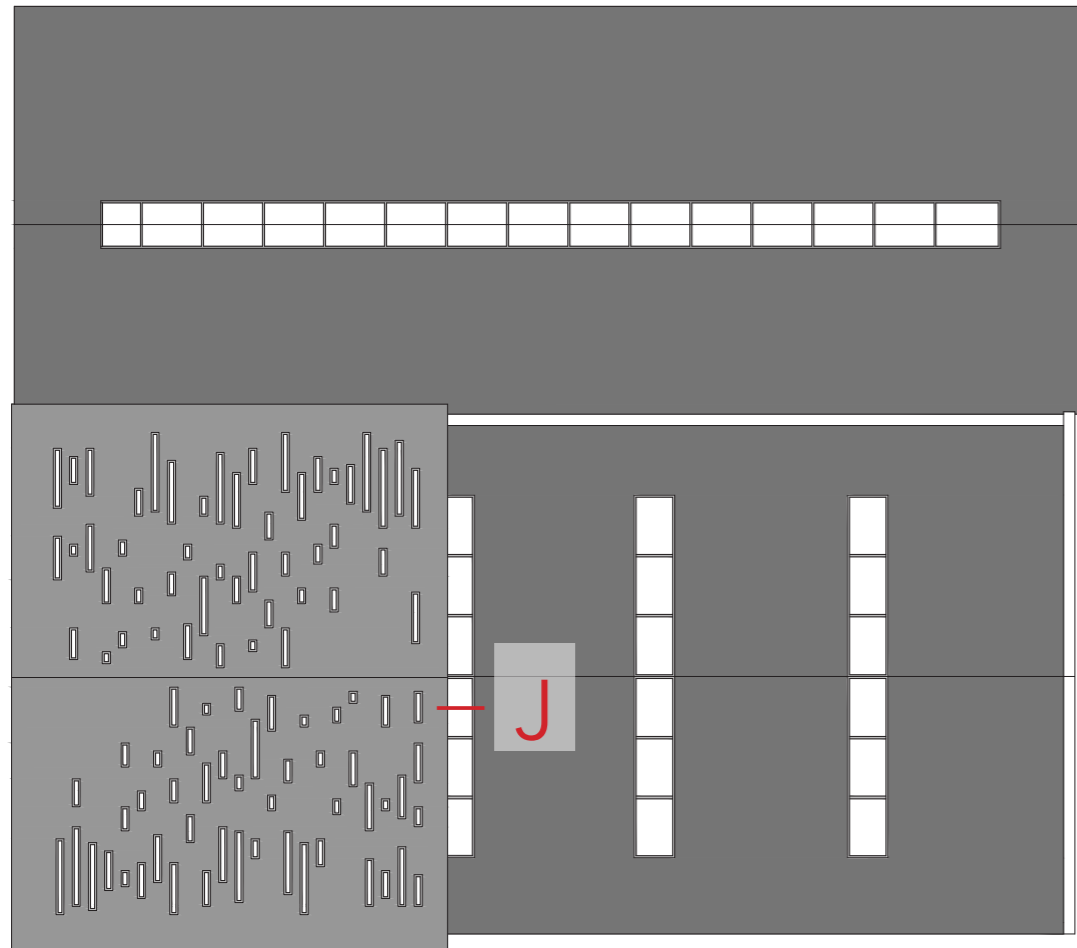


D

Foodmarket



Where light meets the wall

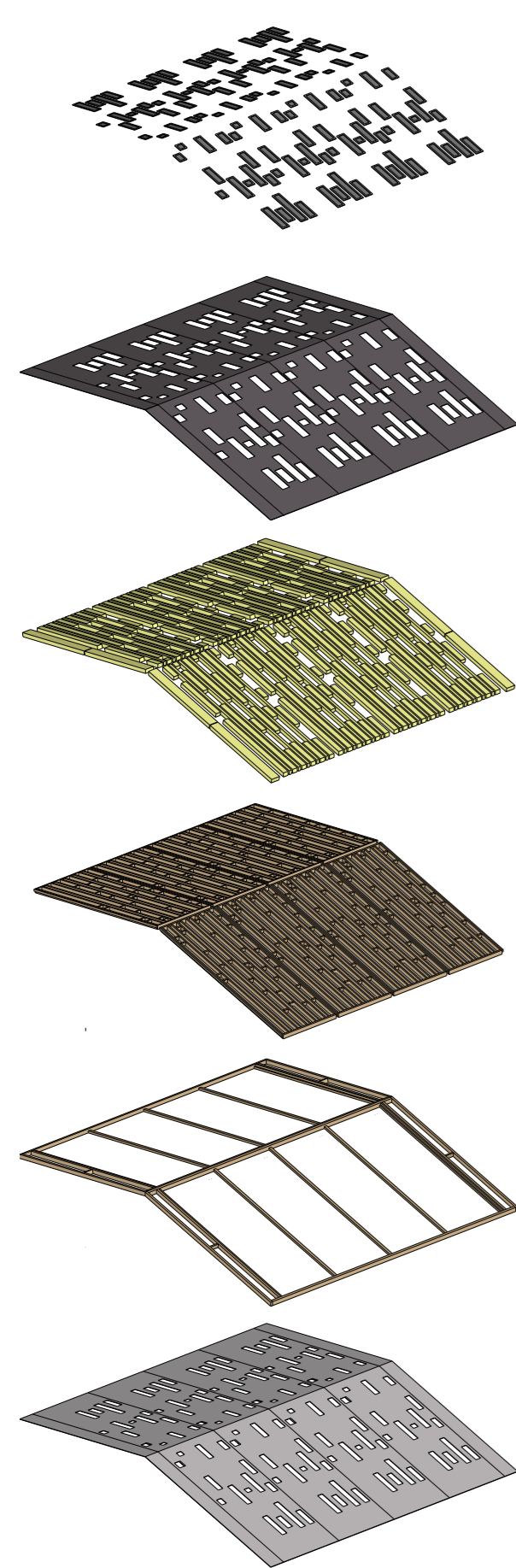


detail J

Bar



Roof of the bar



skylights

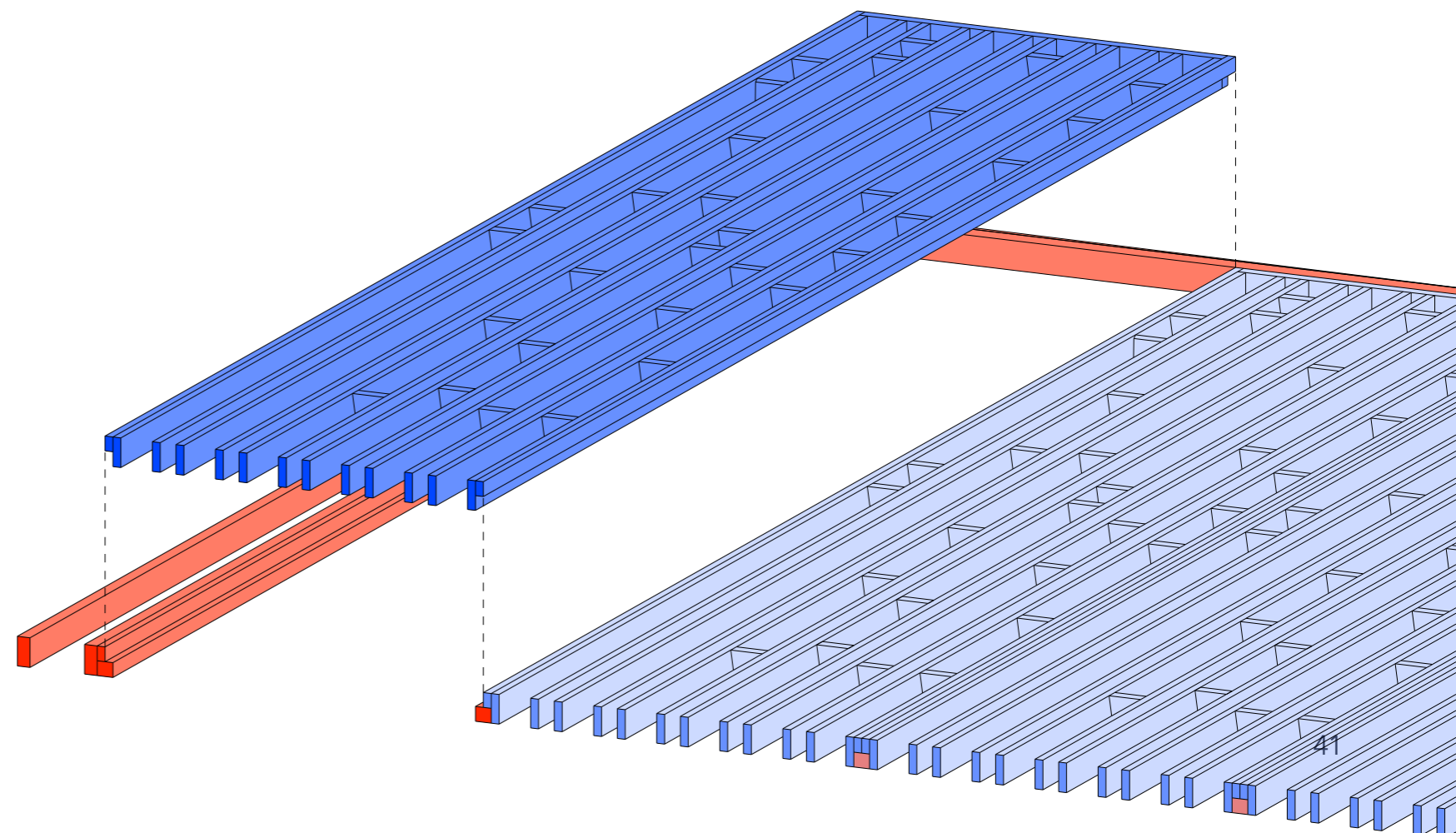
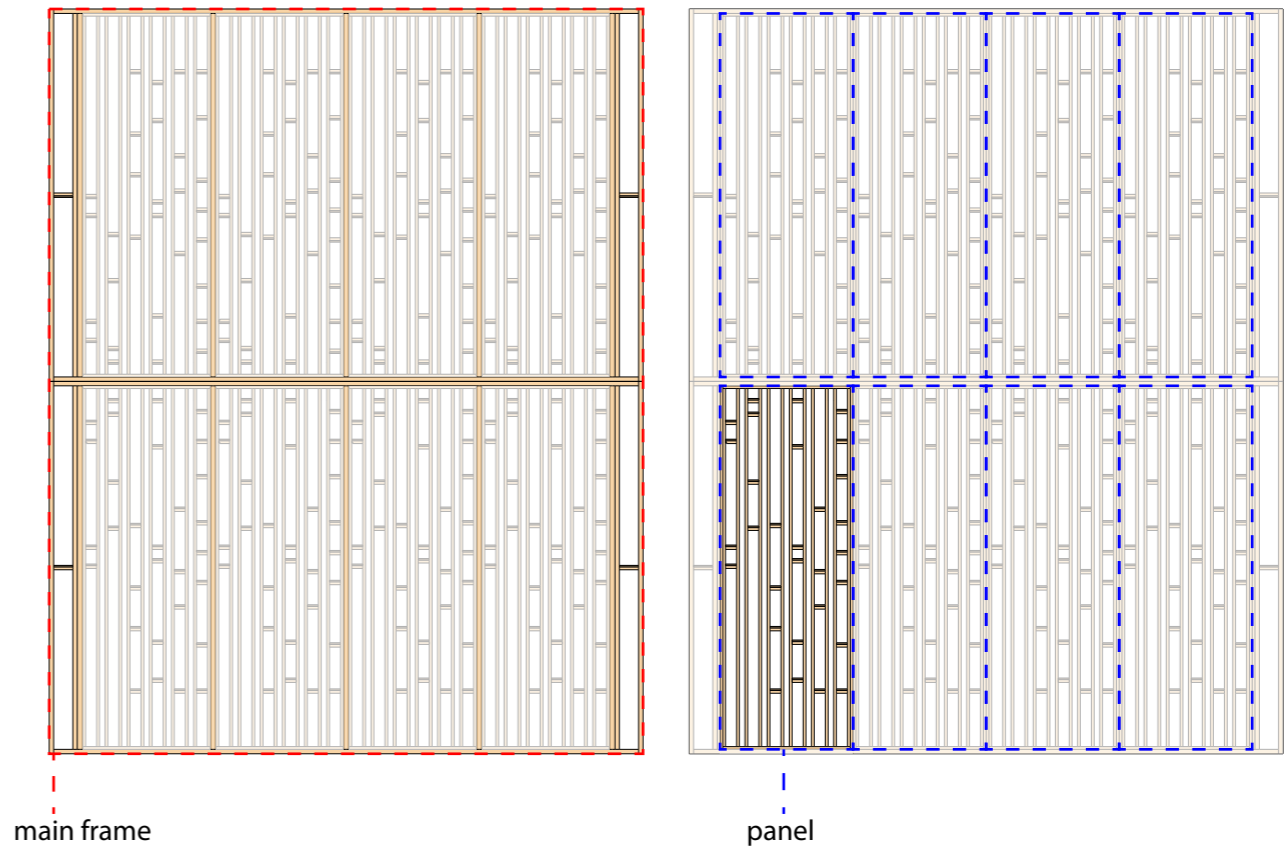
zinc roof finish

insulation

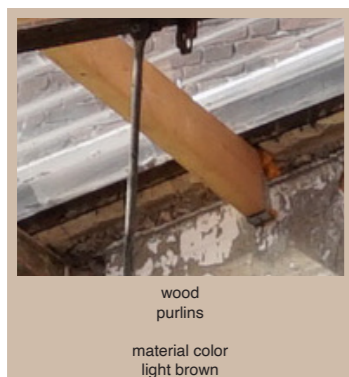
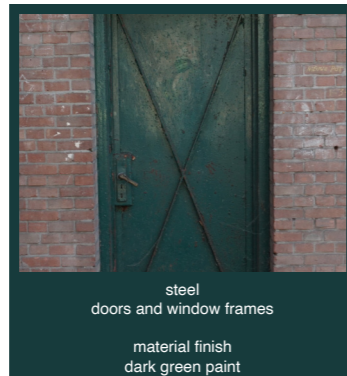
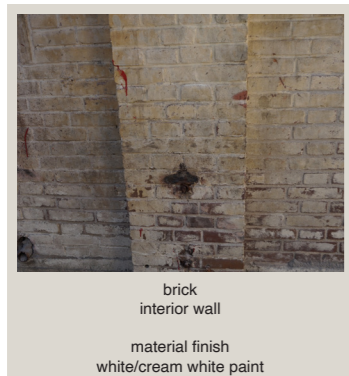
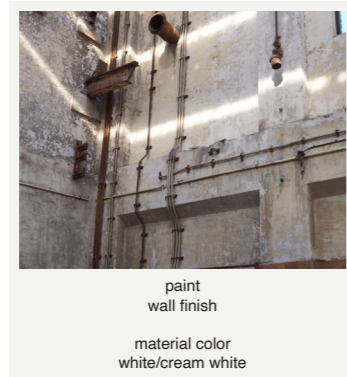
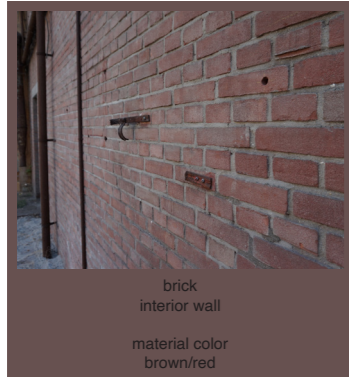
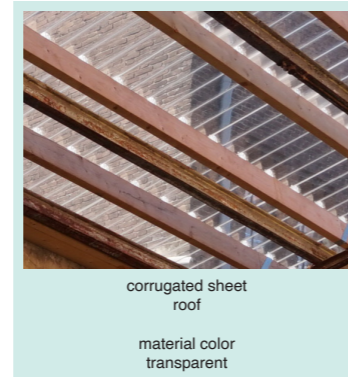
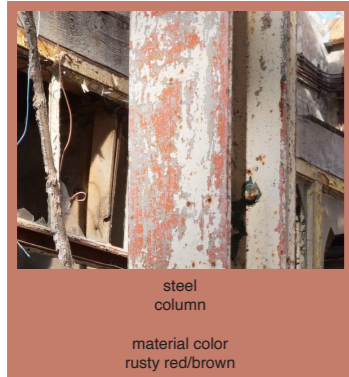
pre-fabricated panels

main frame

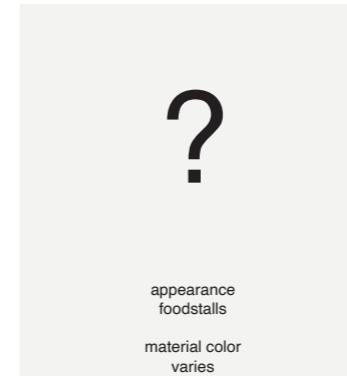
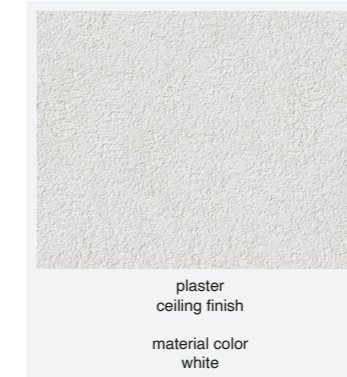
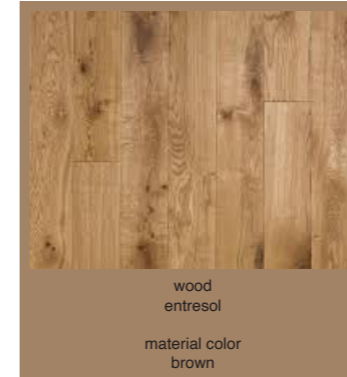
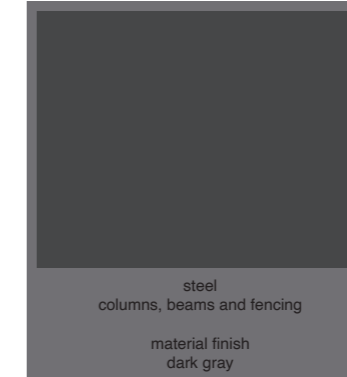
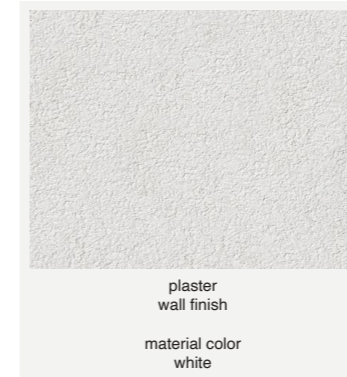
white ceiling finish



Materials & colors existing

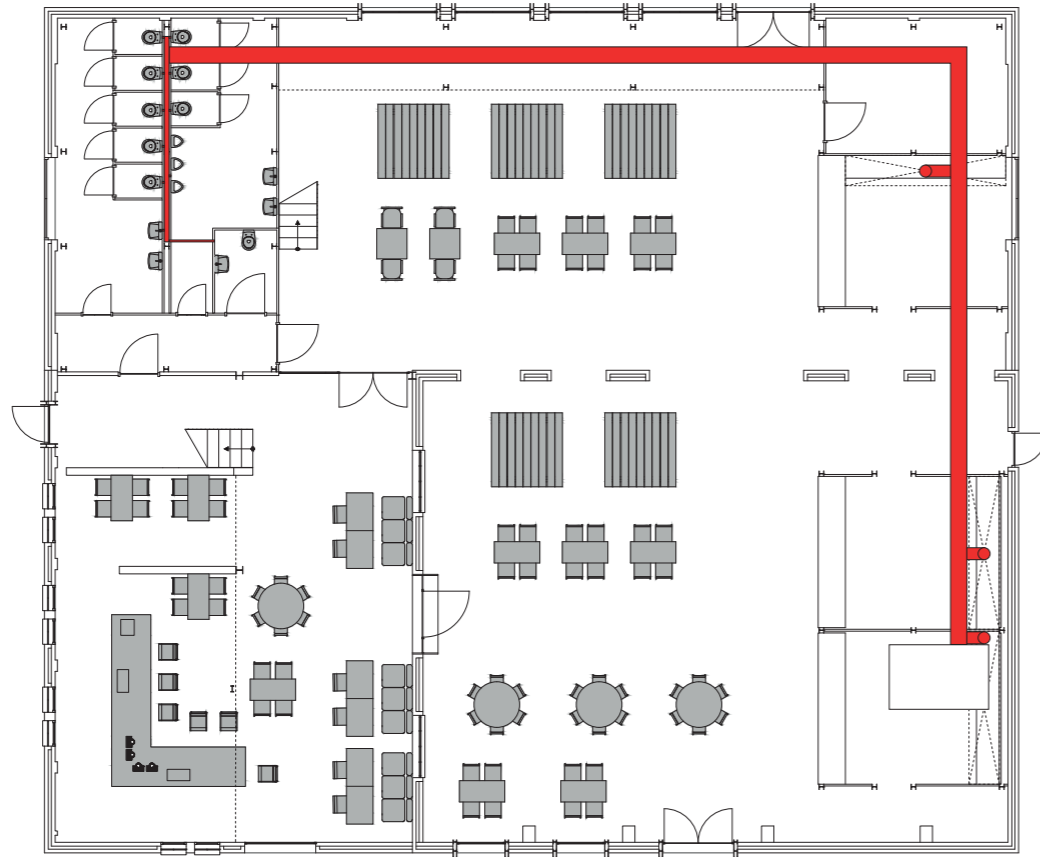


Materials & colors interventions

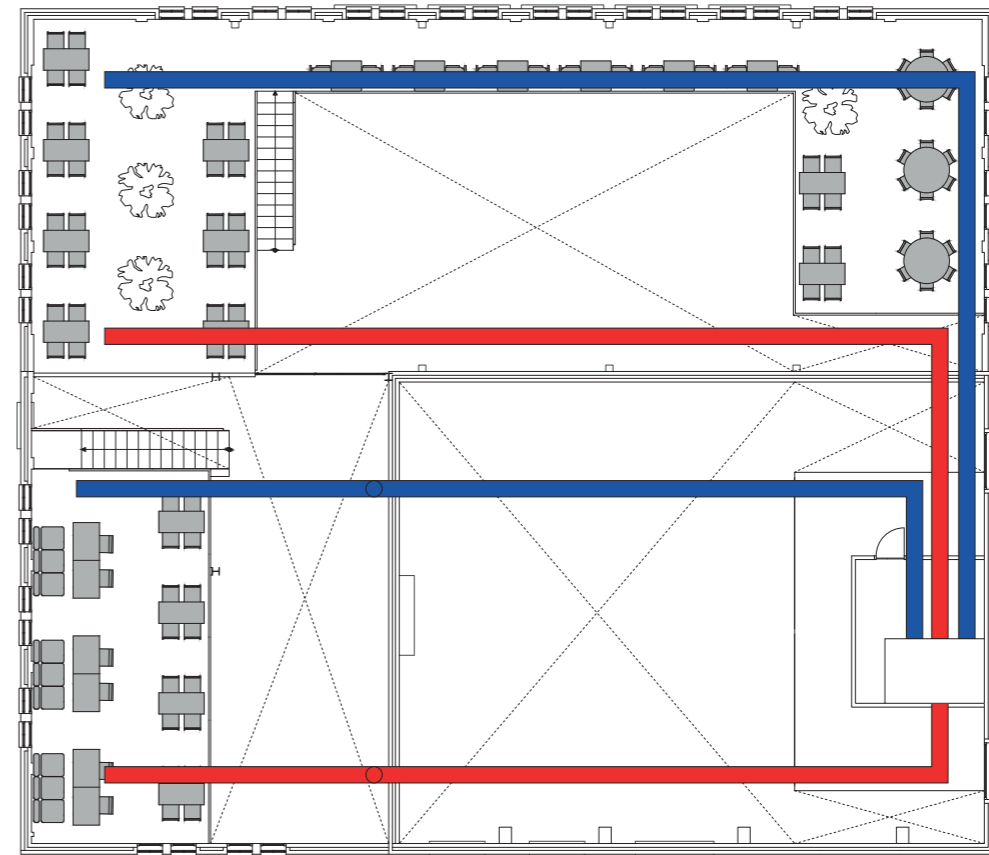


“The interventions are inspired by the existing in color, materiality, and finishing. Yet presenting themselves as clear new additions in the timeline of the building.”

Ventilation ducts

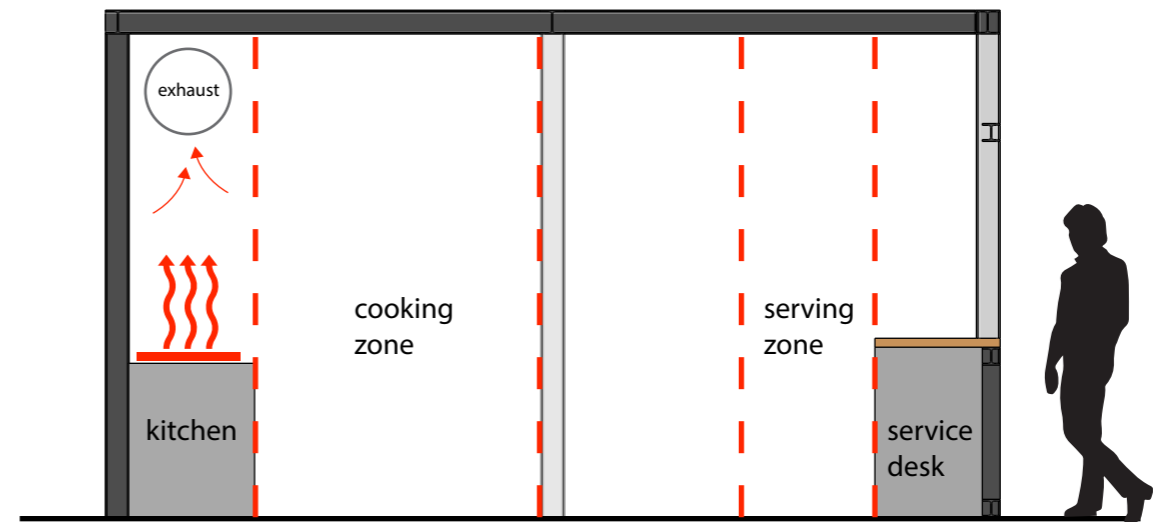
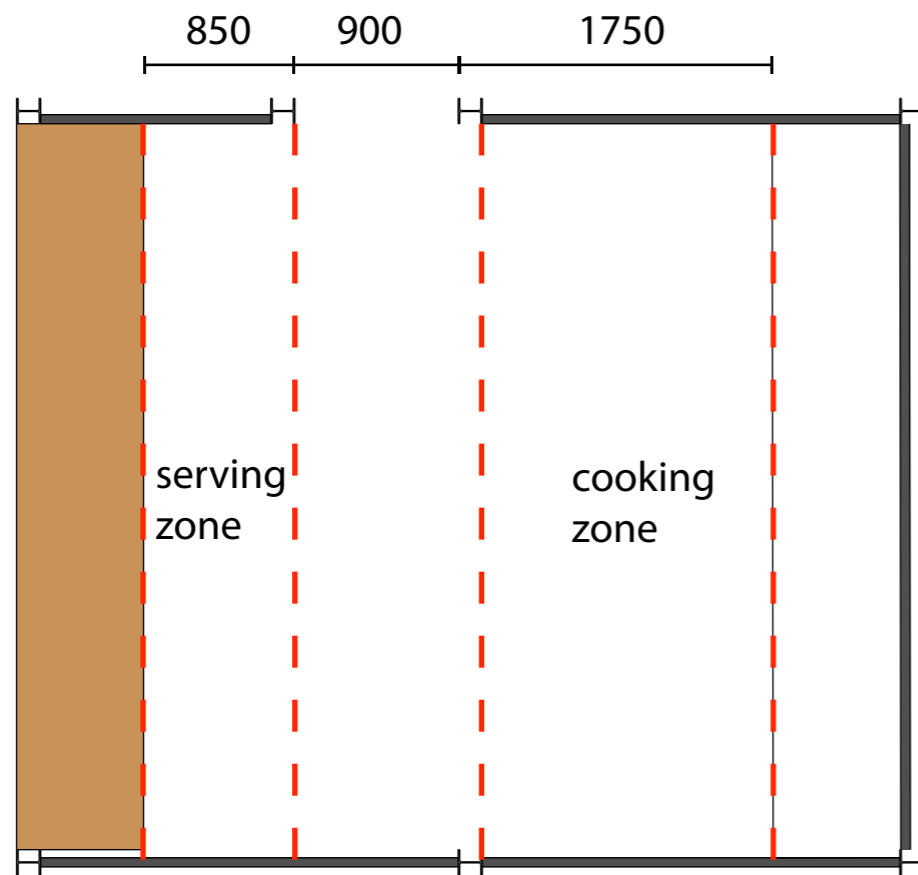
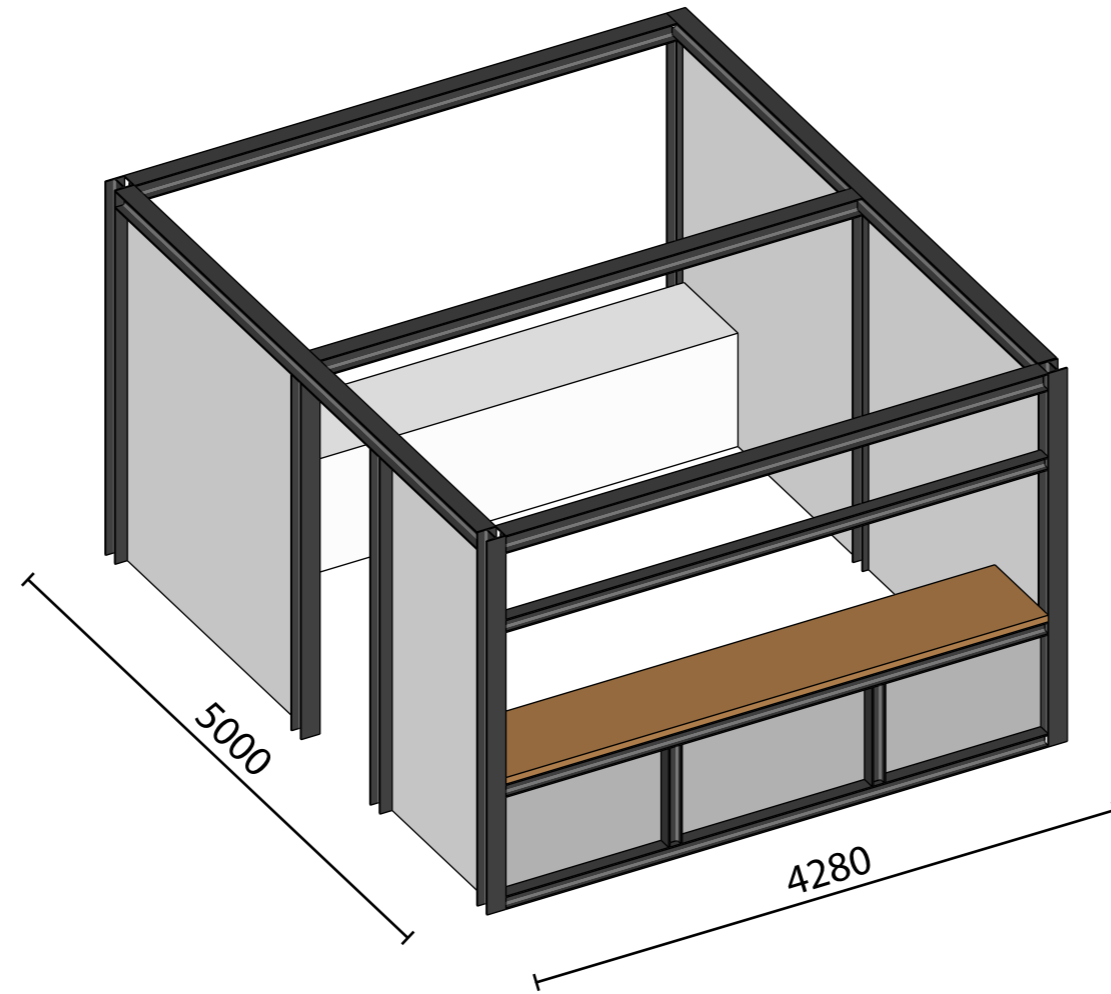


Ground floor



First floor

Foodstalls



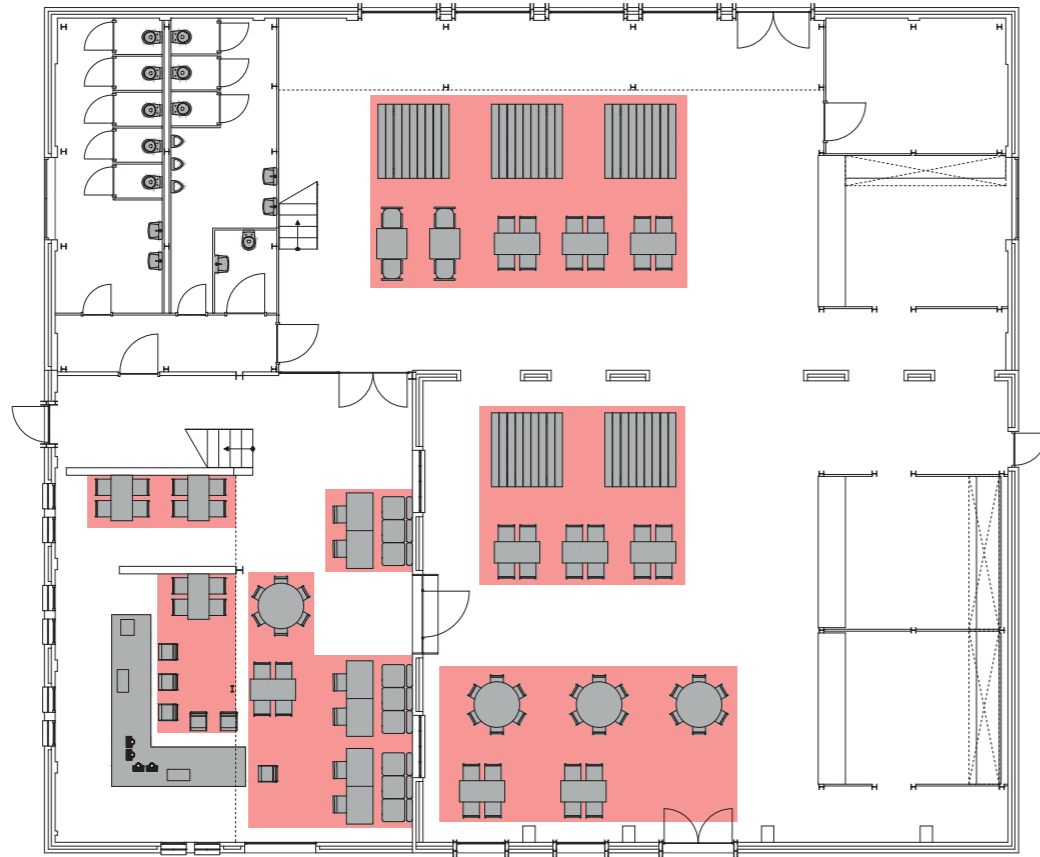
Services visible



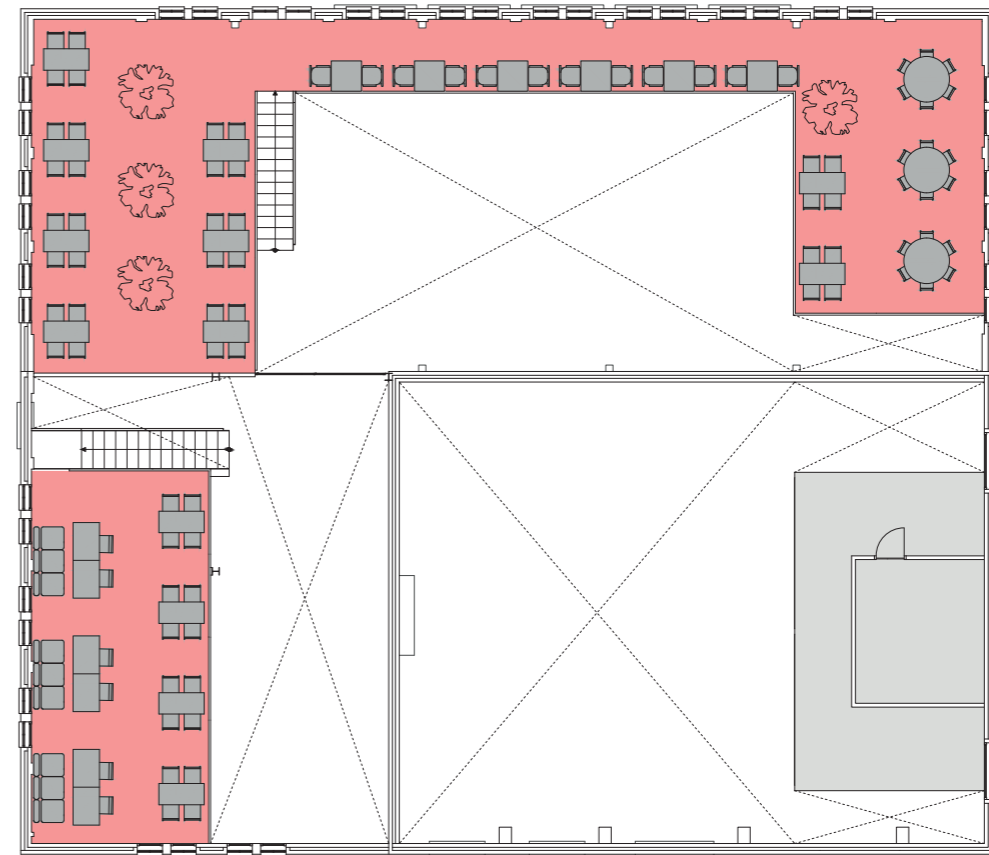
Essence of services, Twentsche foodhallen



Floor heating zoning



Ground floor

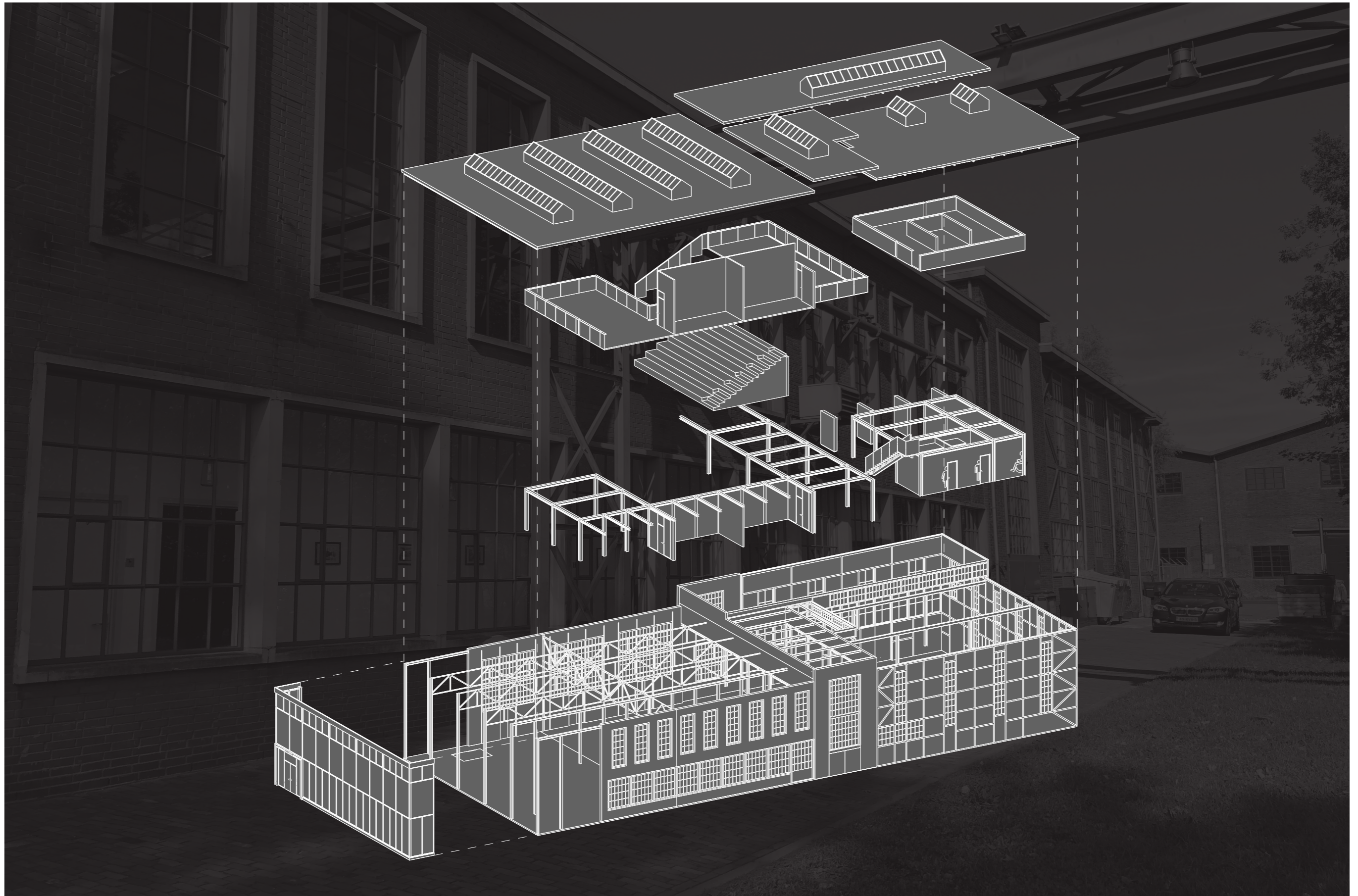


First floor

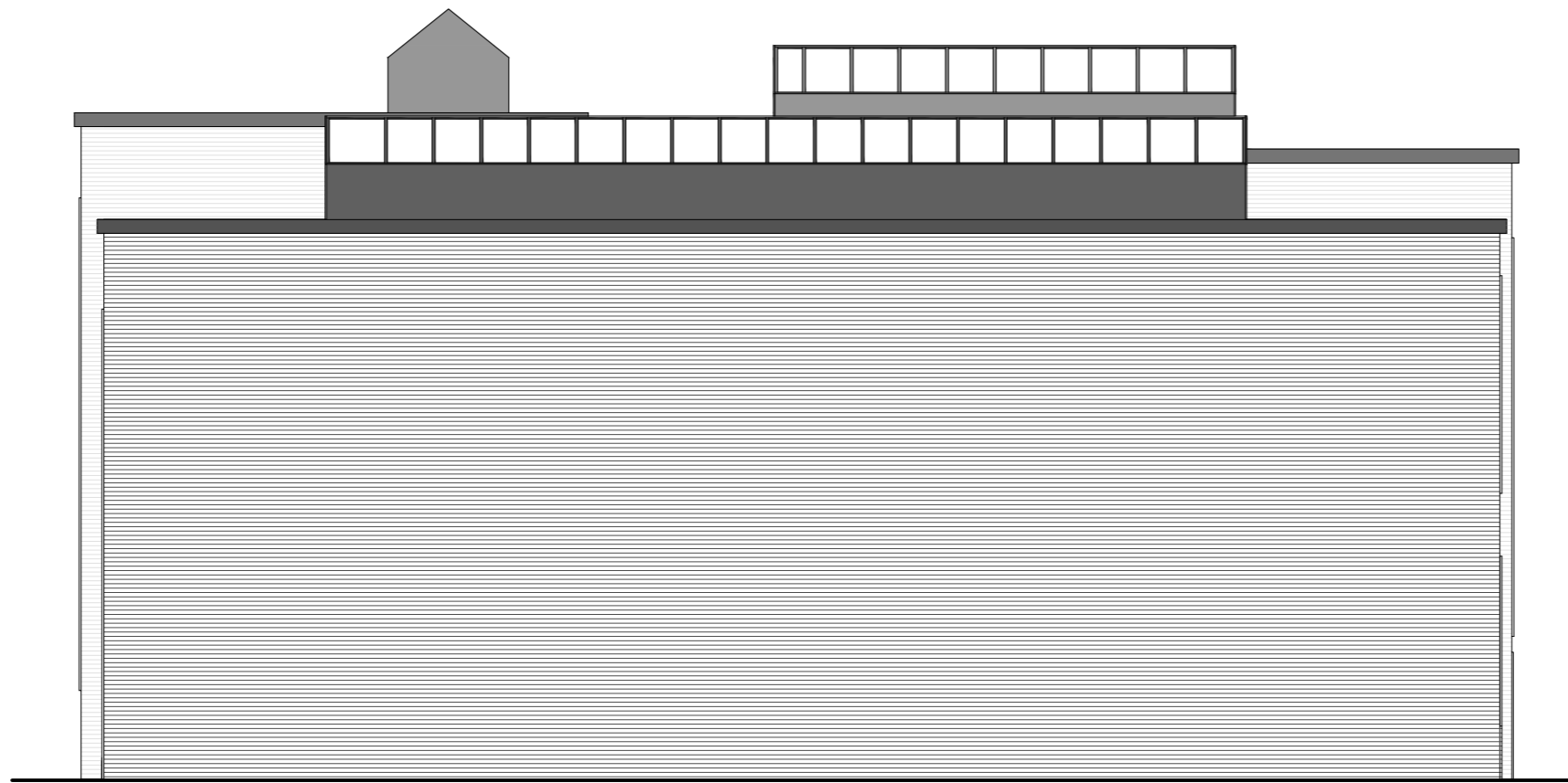


the
Ketelcentrale

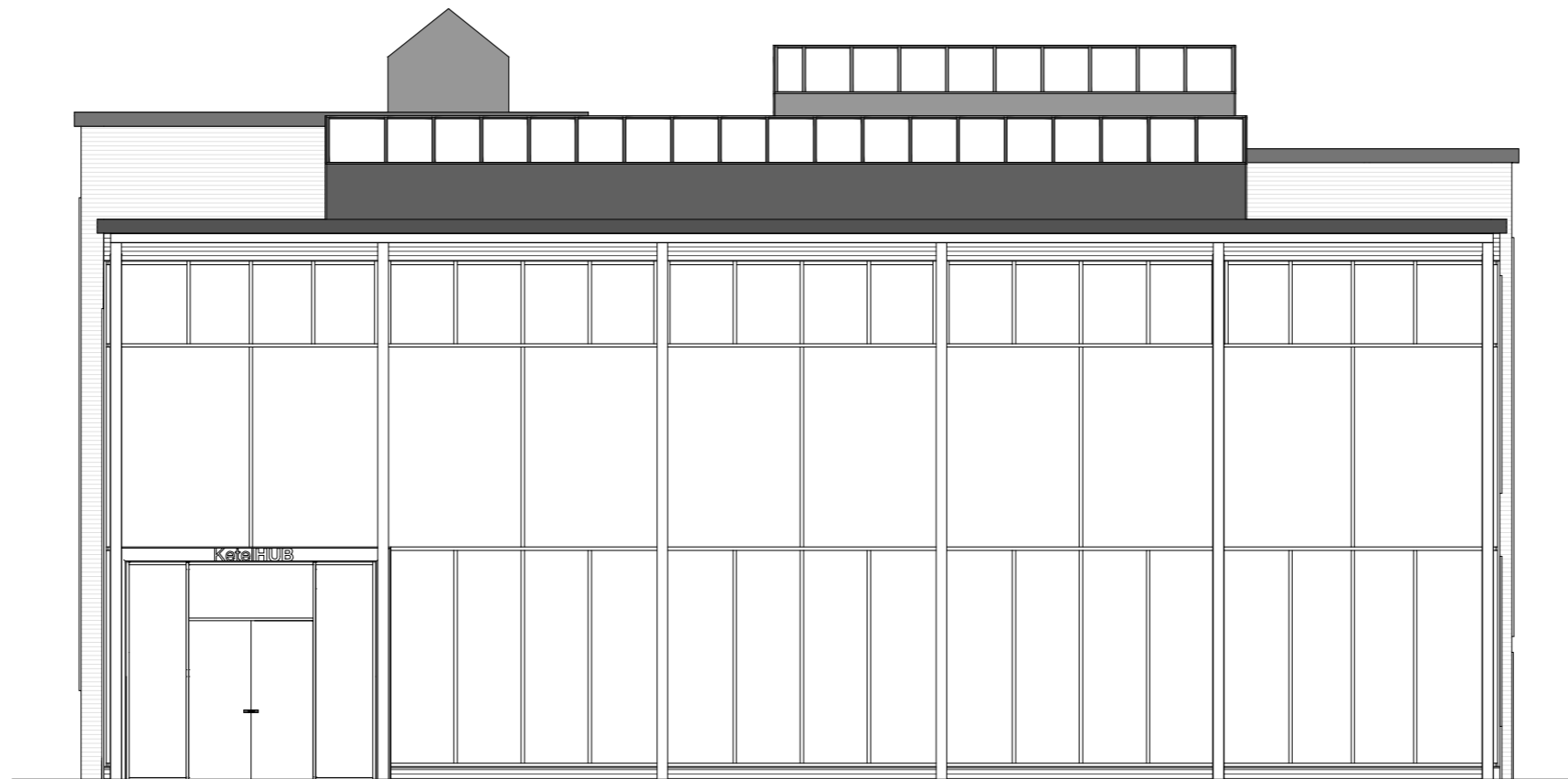
Interventions



Southern facade



existing



new

Western facade



existing



new

Northern facade



existing



new

Eastern facade



existing

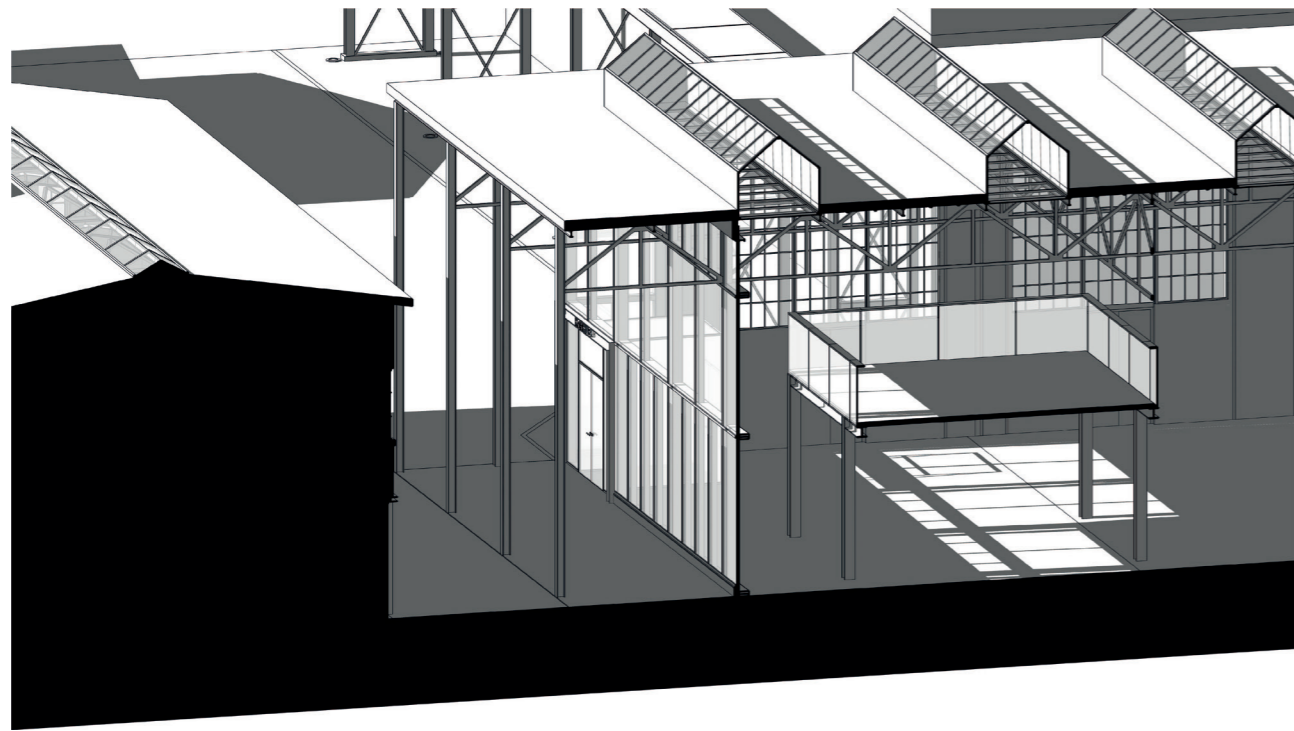


new

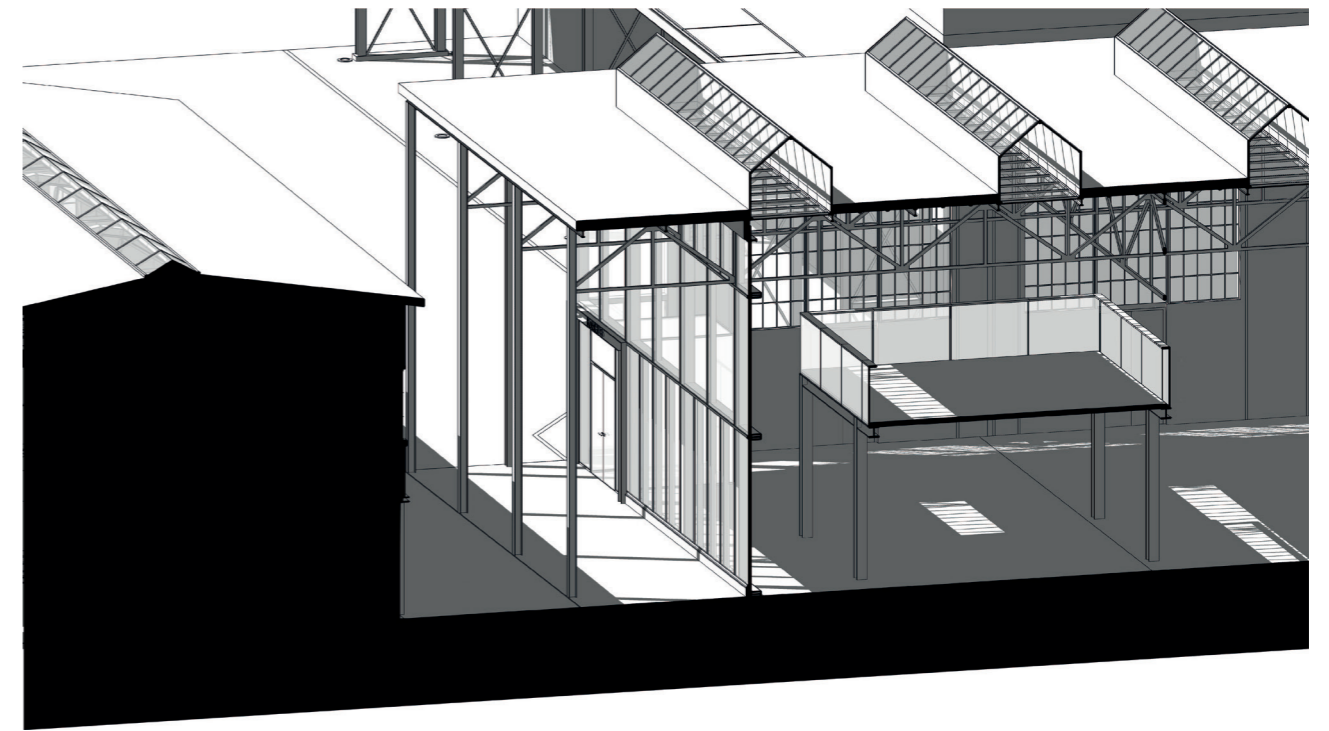
Curtain wall



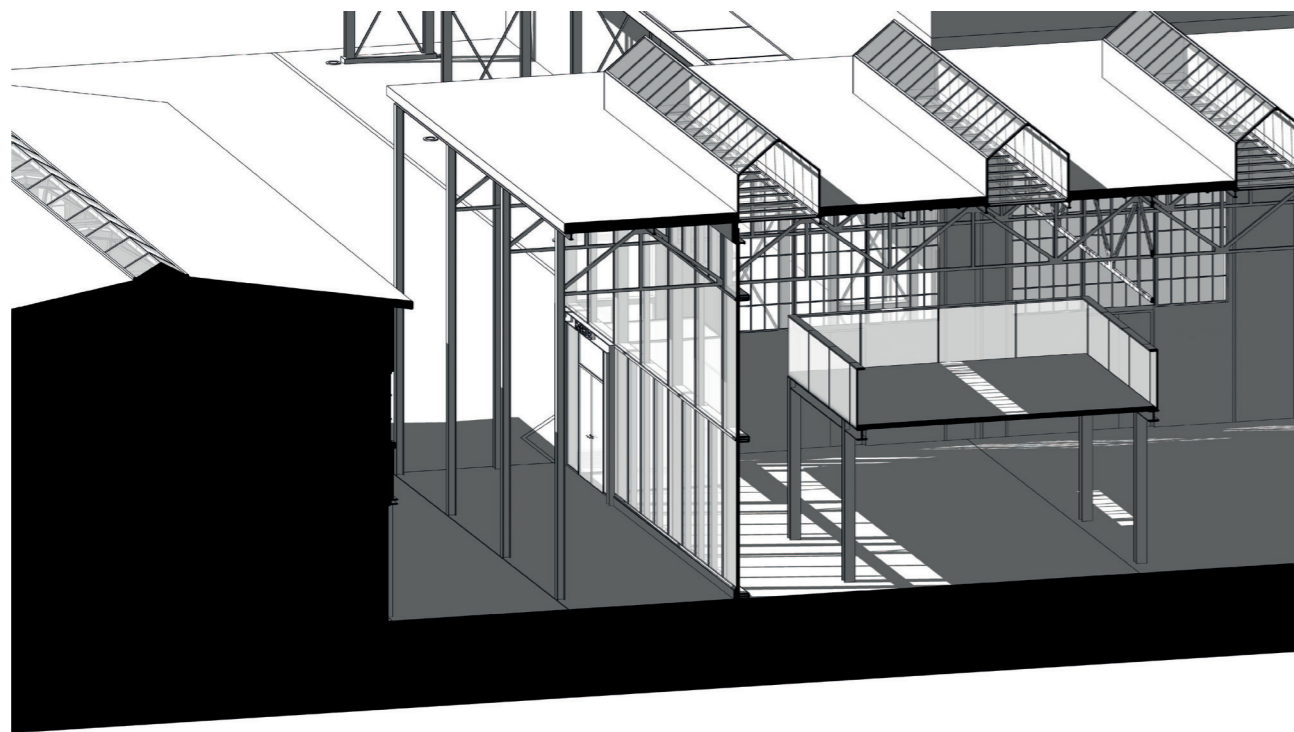
Solar study



01/03 02:00PM

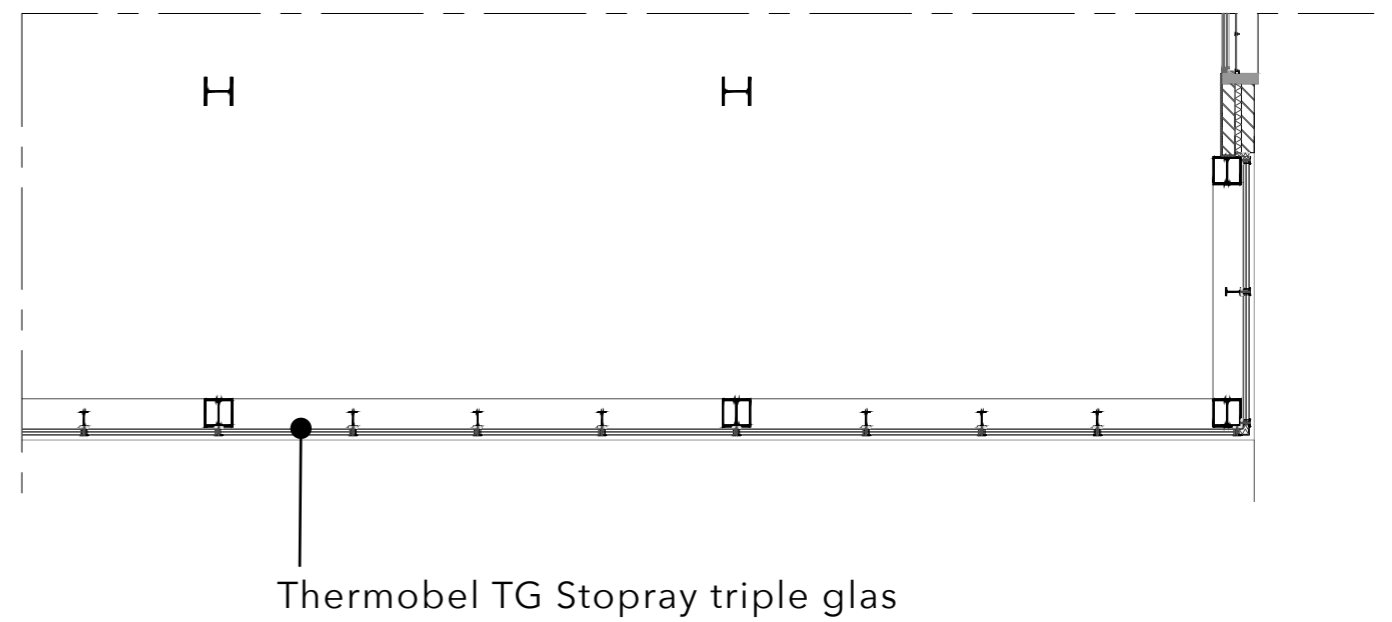


01/06 02:00PM

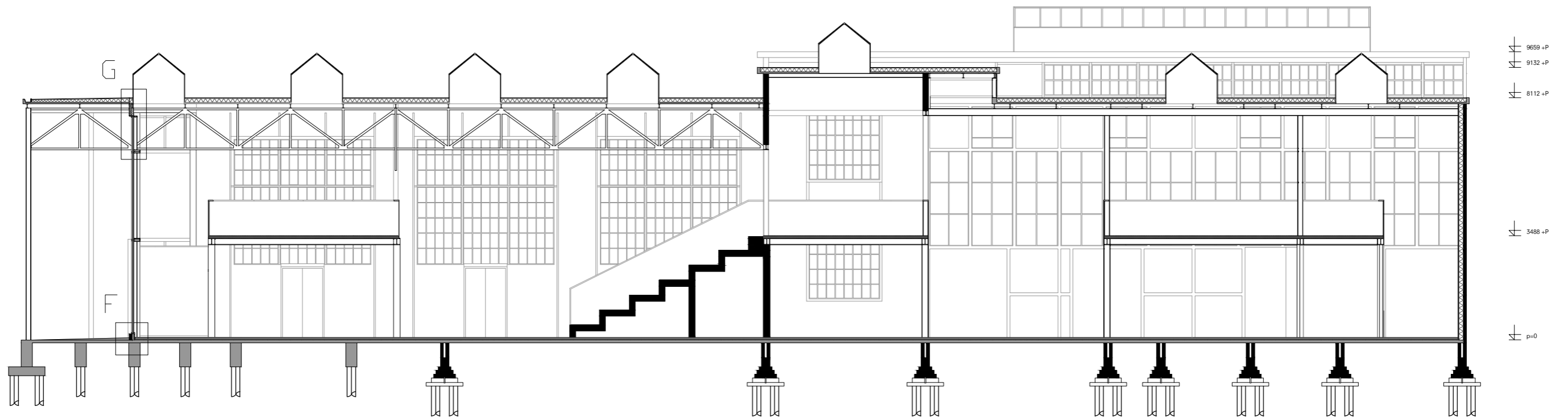


01/09 02:00PM

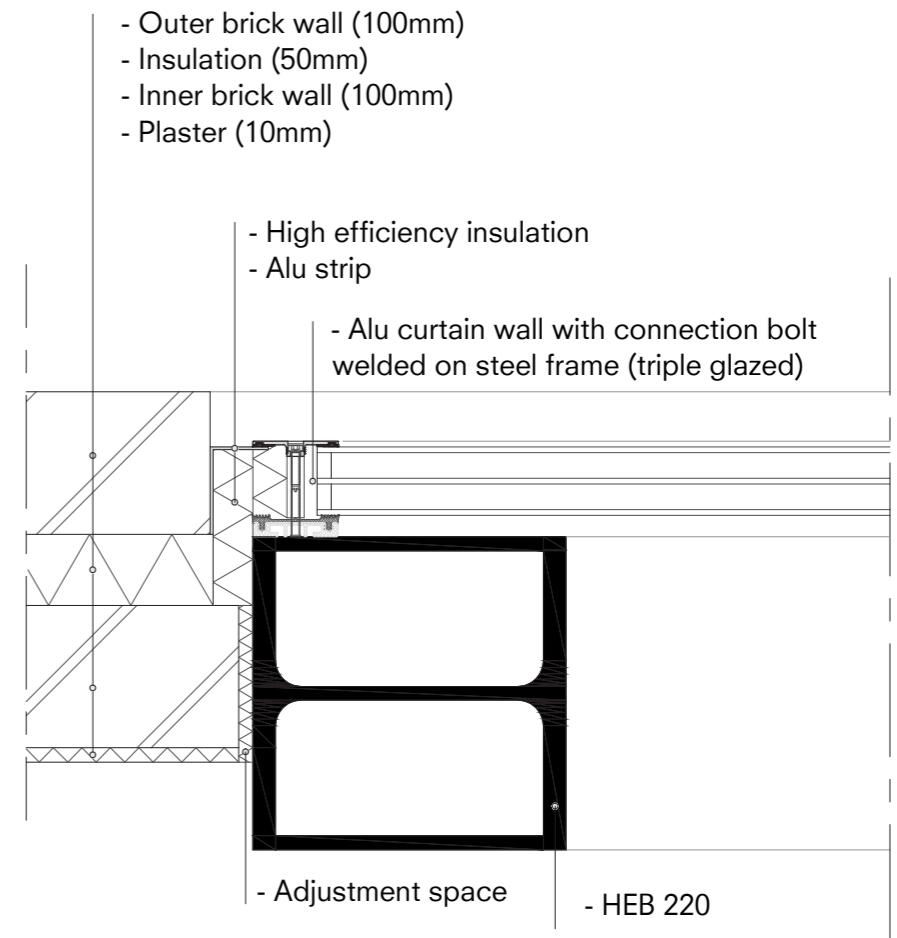
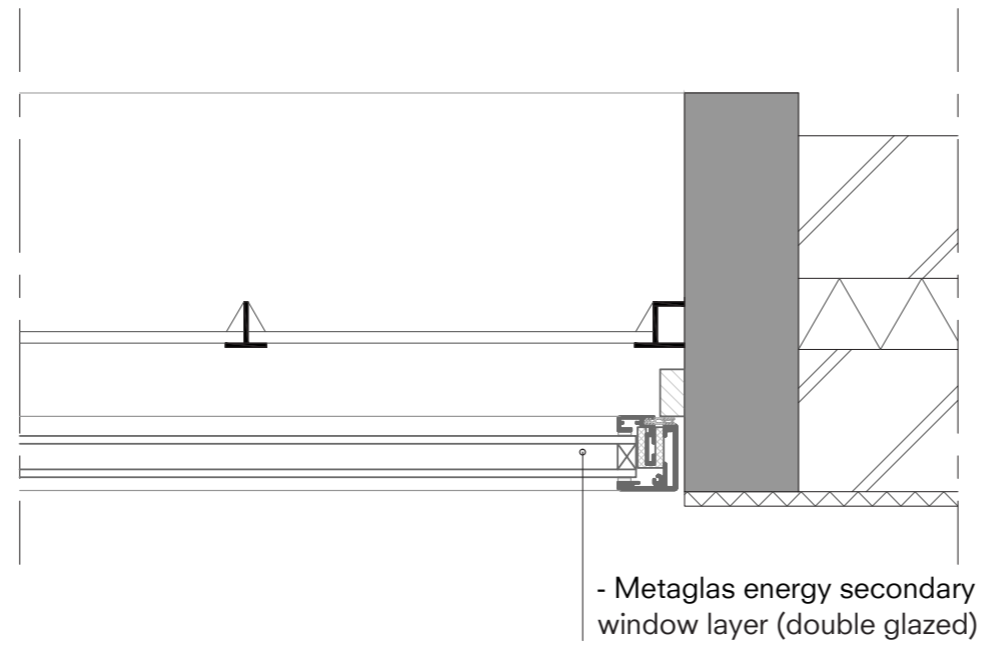
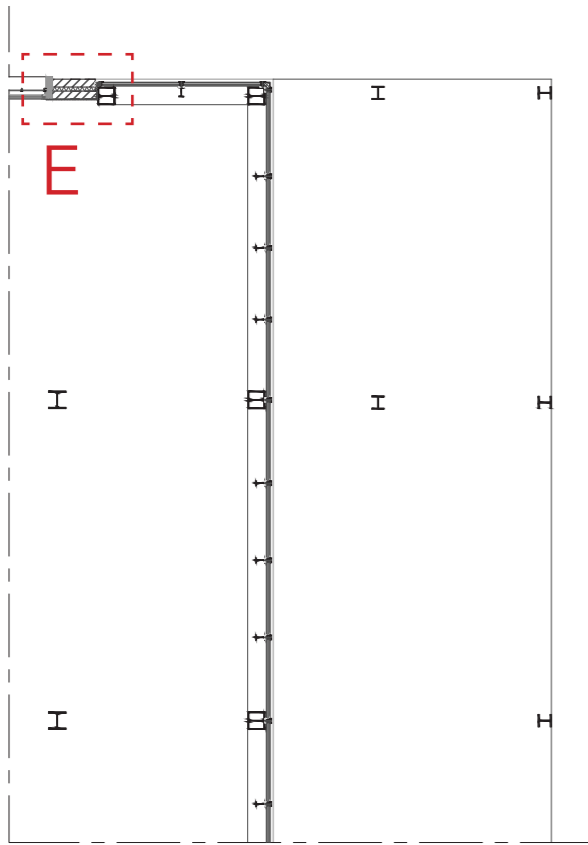
Hor. cross-section



Section



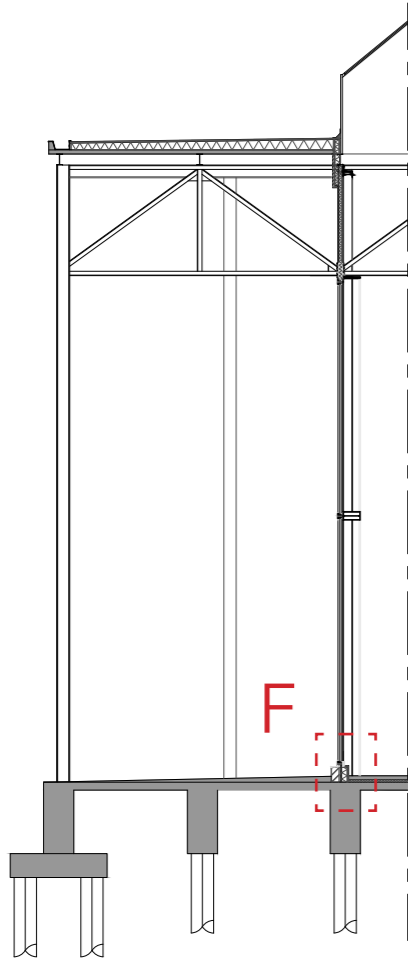
Connection to existing facade



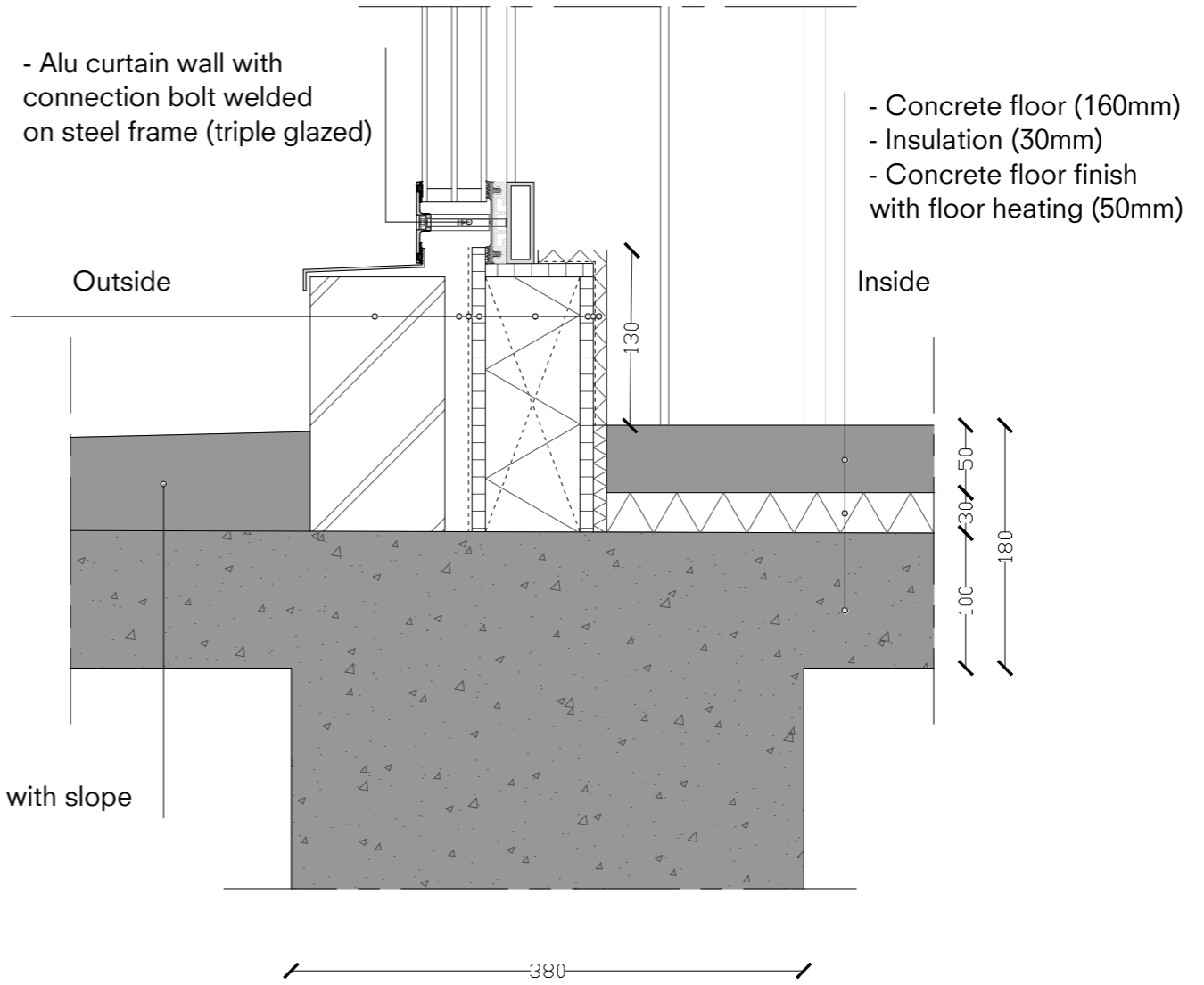
E



Connection to existing floor



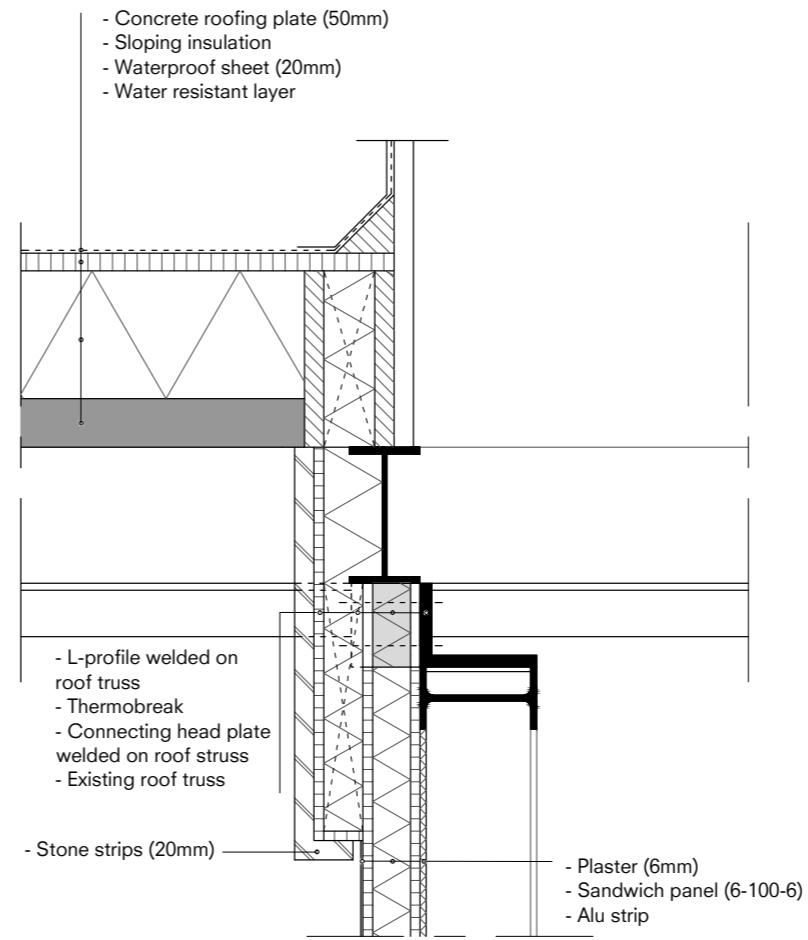
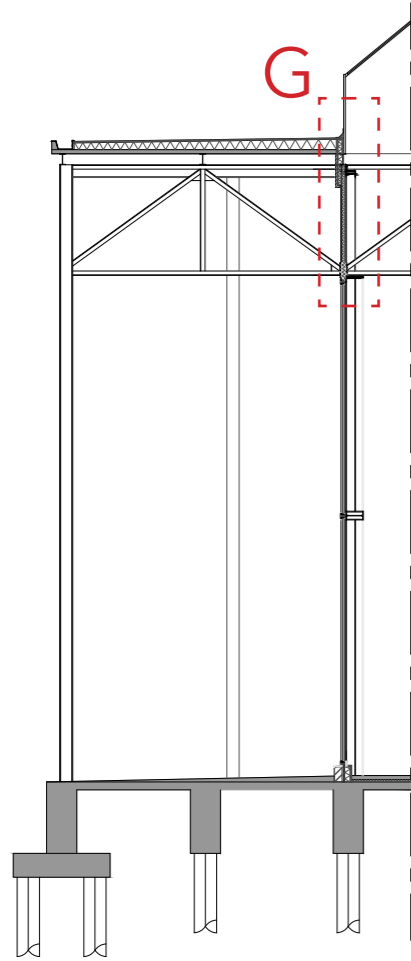
- Plaster (10mm)
- Moist resistant layer
- Gypsum plate (20mm)
- Insulation (100mm)
- Gypsum plate (20mm)
- Water resistant layer



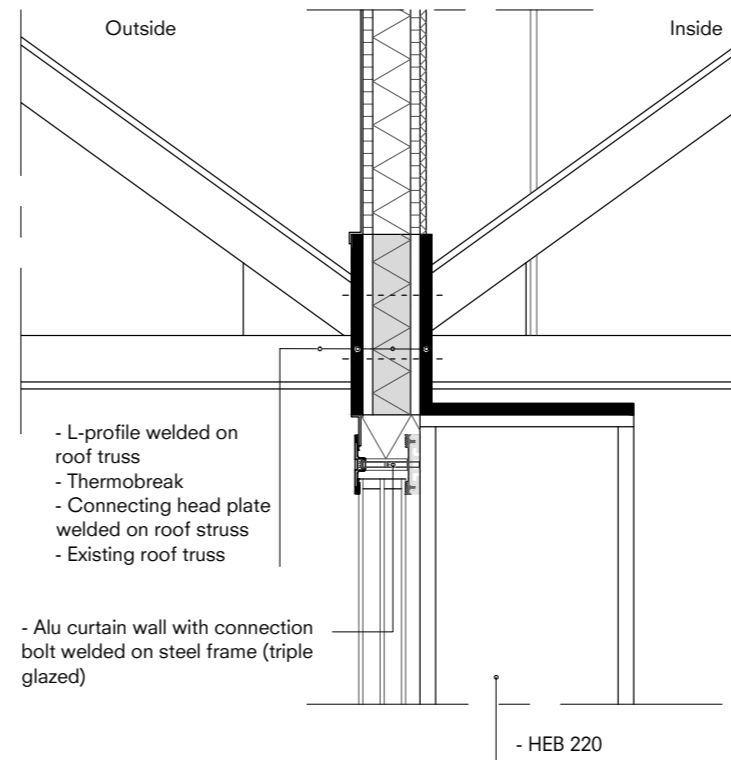
F

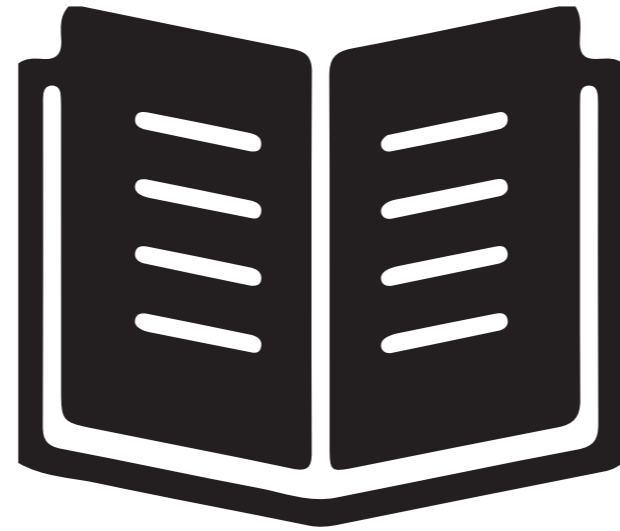


Cutting the truss

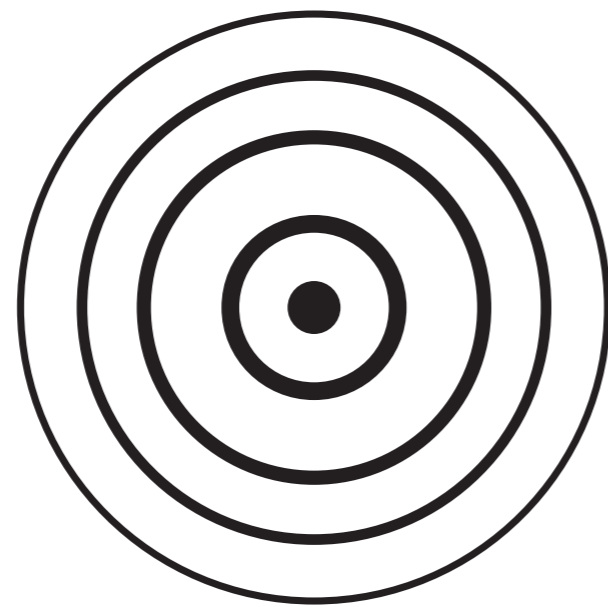


G

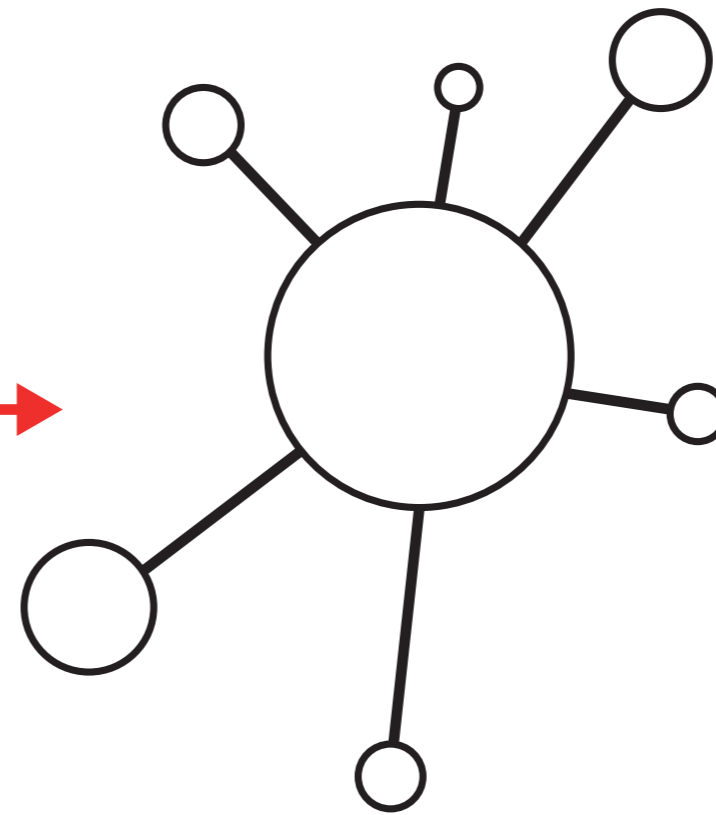




library



former function:
center of knowledge



new function:
portal to knowledge

Portal to knowledge

School 7, Den Helder

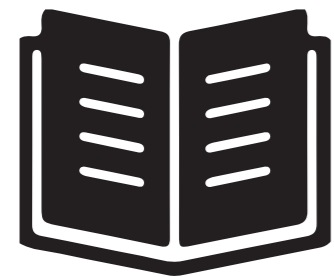
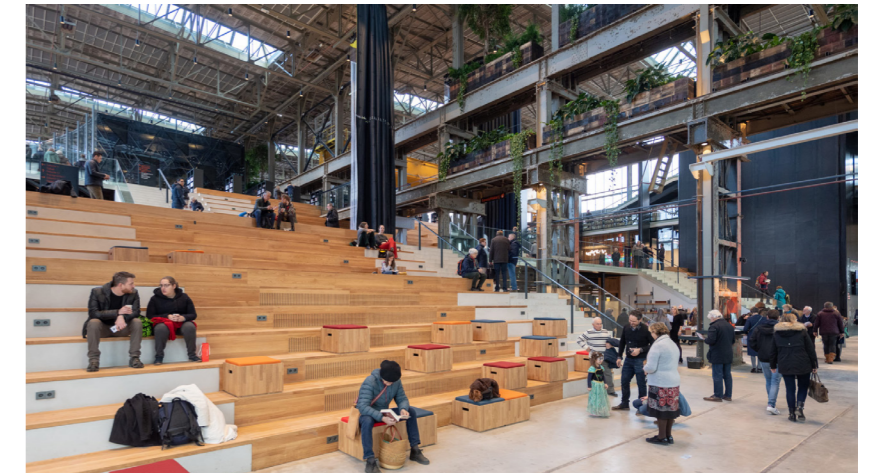


education



art & culture

LocHal, Tilburg



reading & literature



meeting, debate

Library Deventer, Deventer



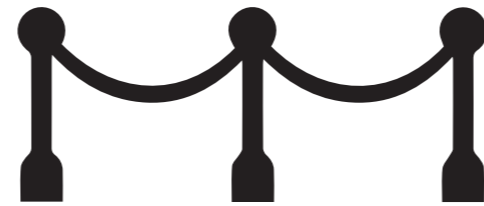
Bibliotheek / Van
Abbemuseum, Eindhoven



Functions and space needed



learn from technology



exhibiting local art works



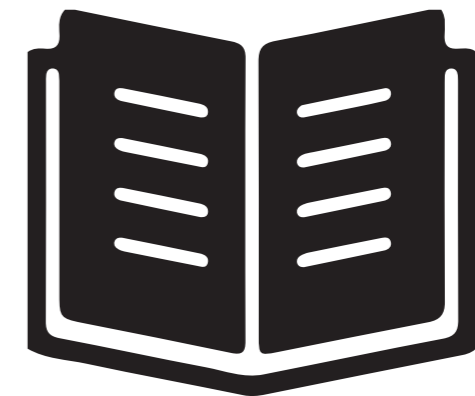
workshops / presentations



gather and debate

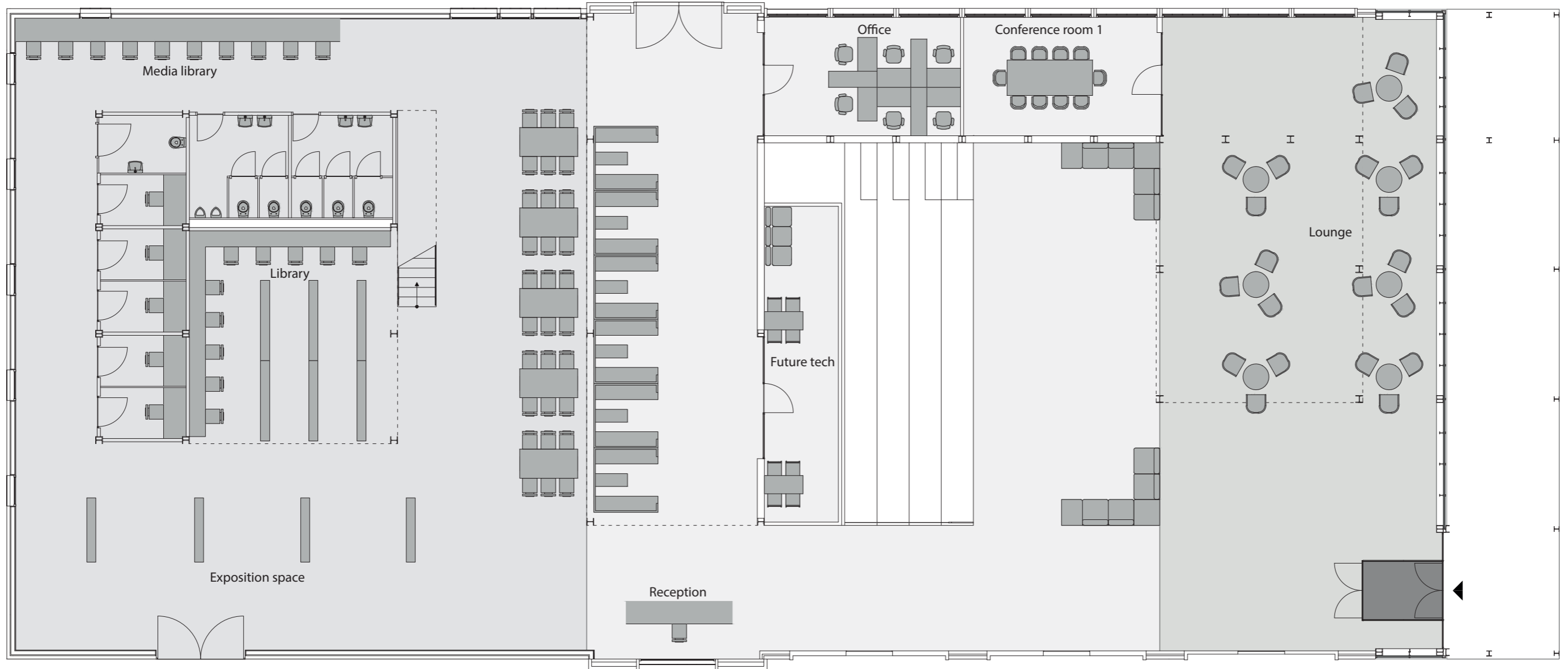


work and study

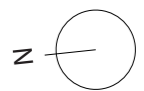


library

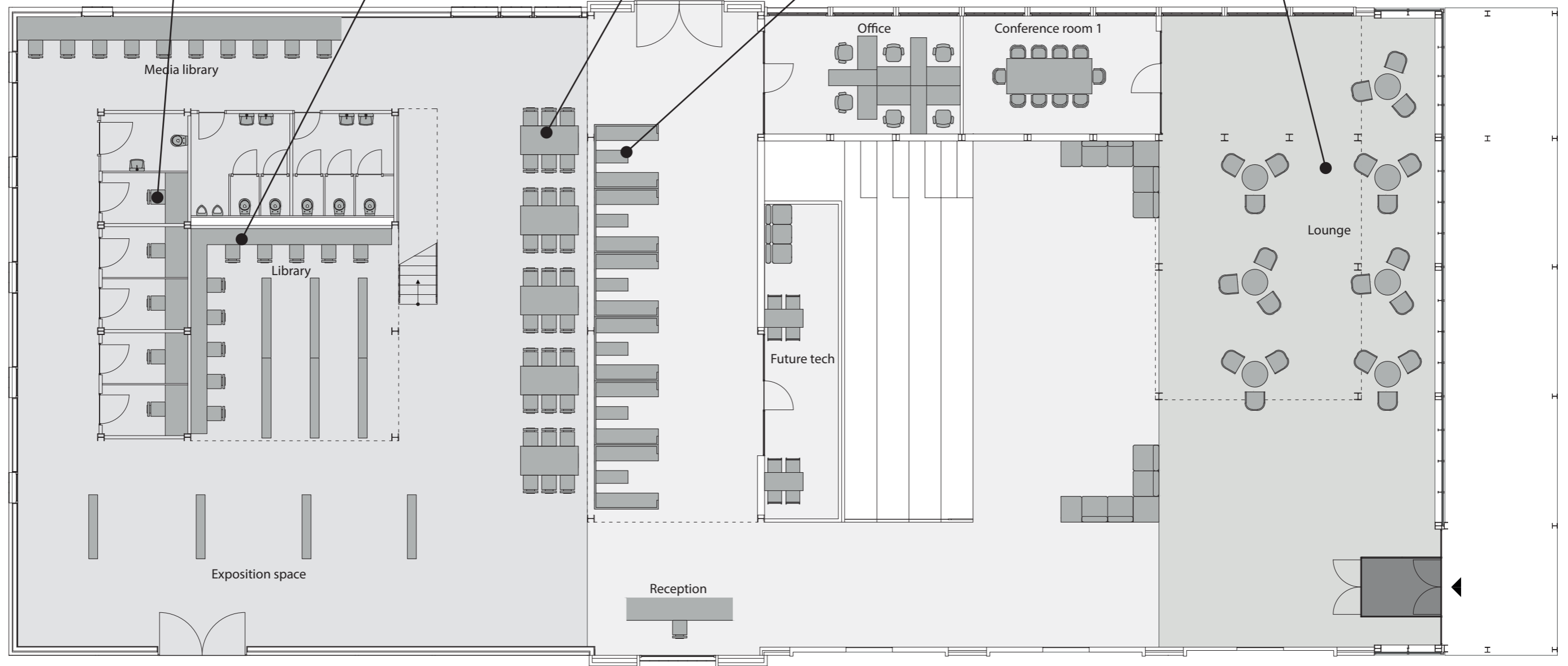
Ground floor



main axis



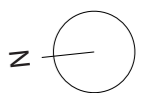
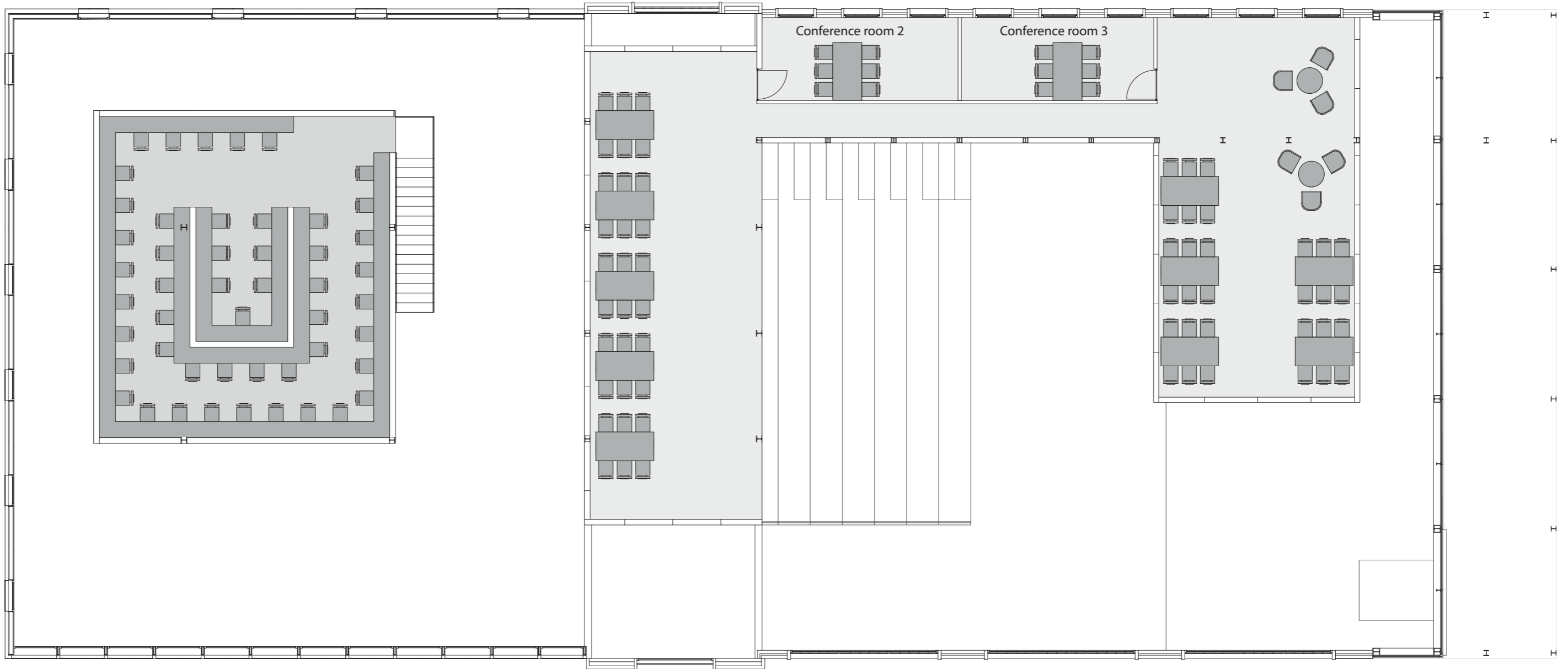
Interior



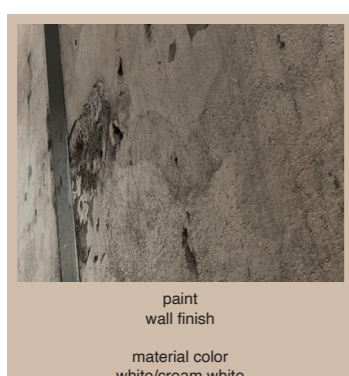
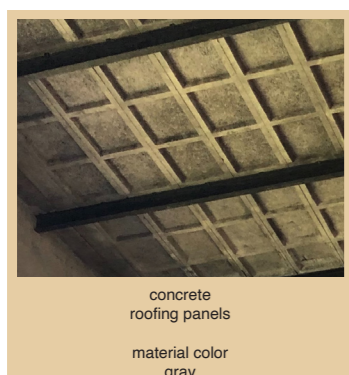
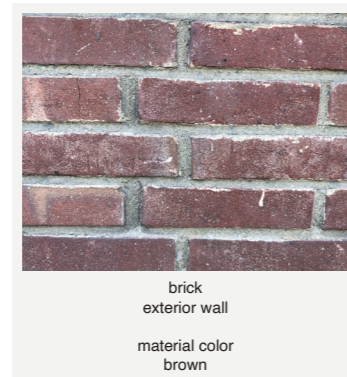
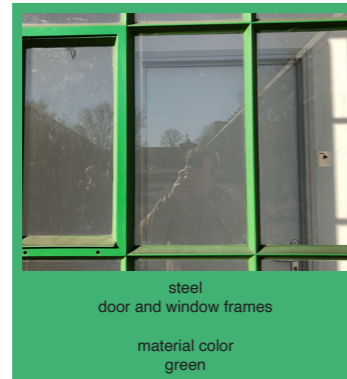
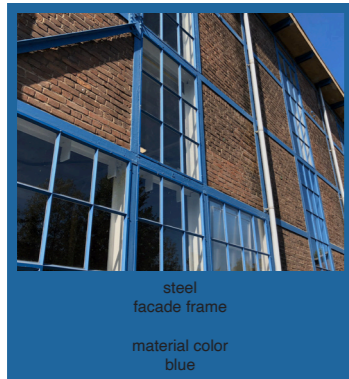
private working spaces

groups/communal working spaces

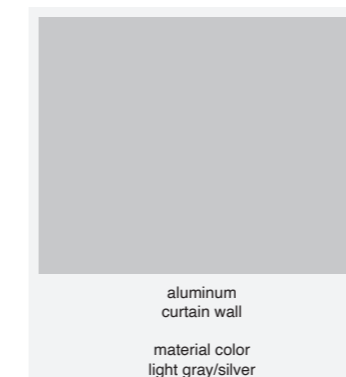
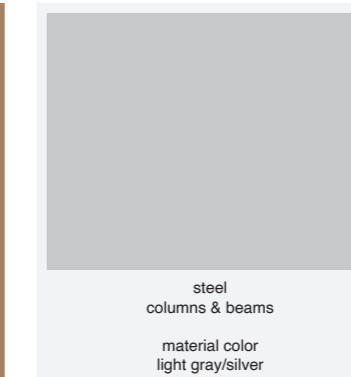
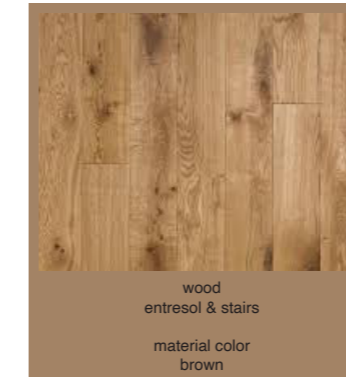
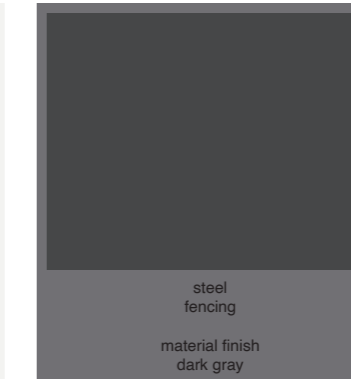
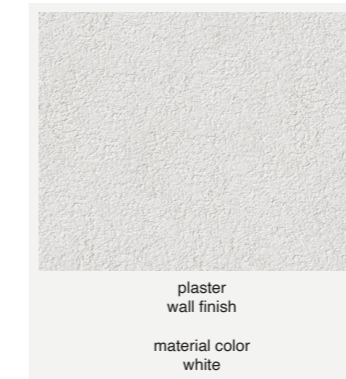
First floor



Materials & colors existing



Materials & colors interventions



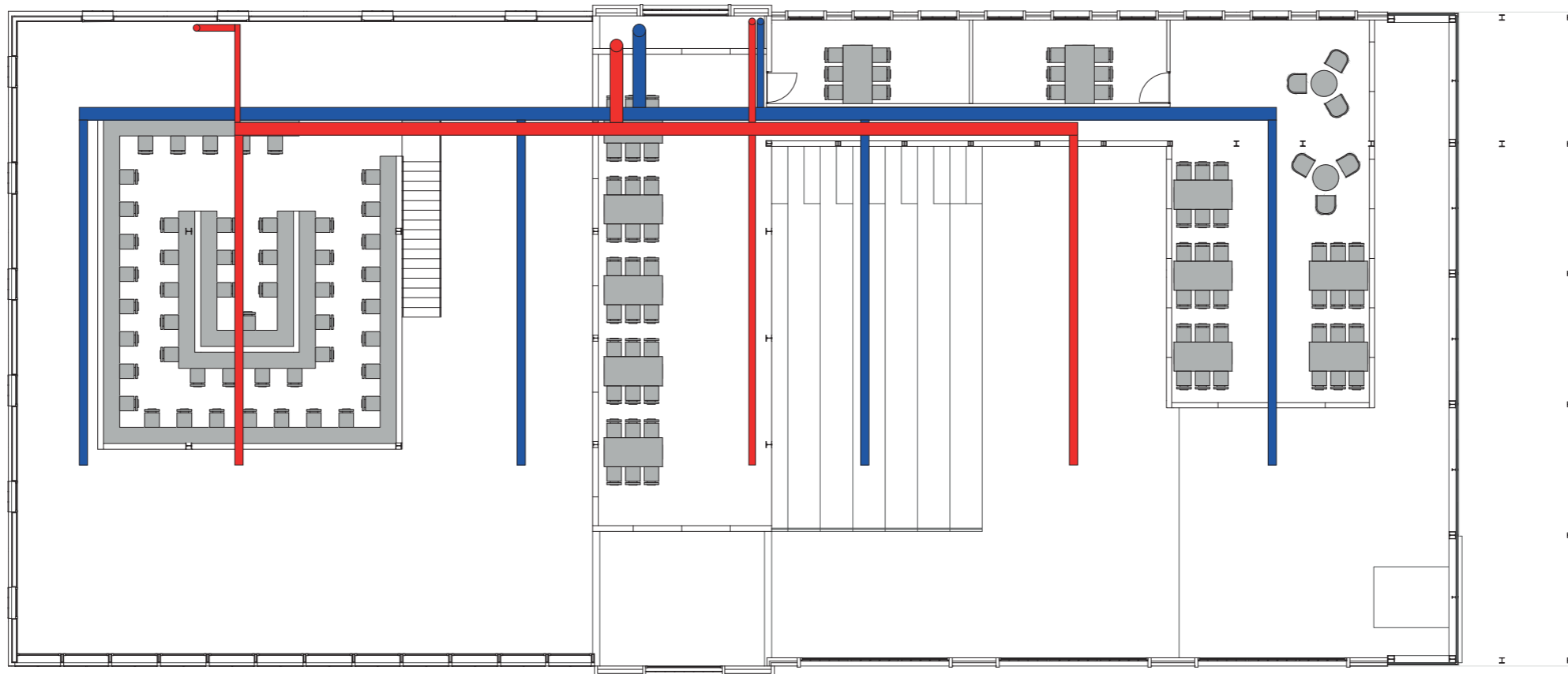
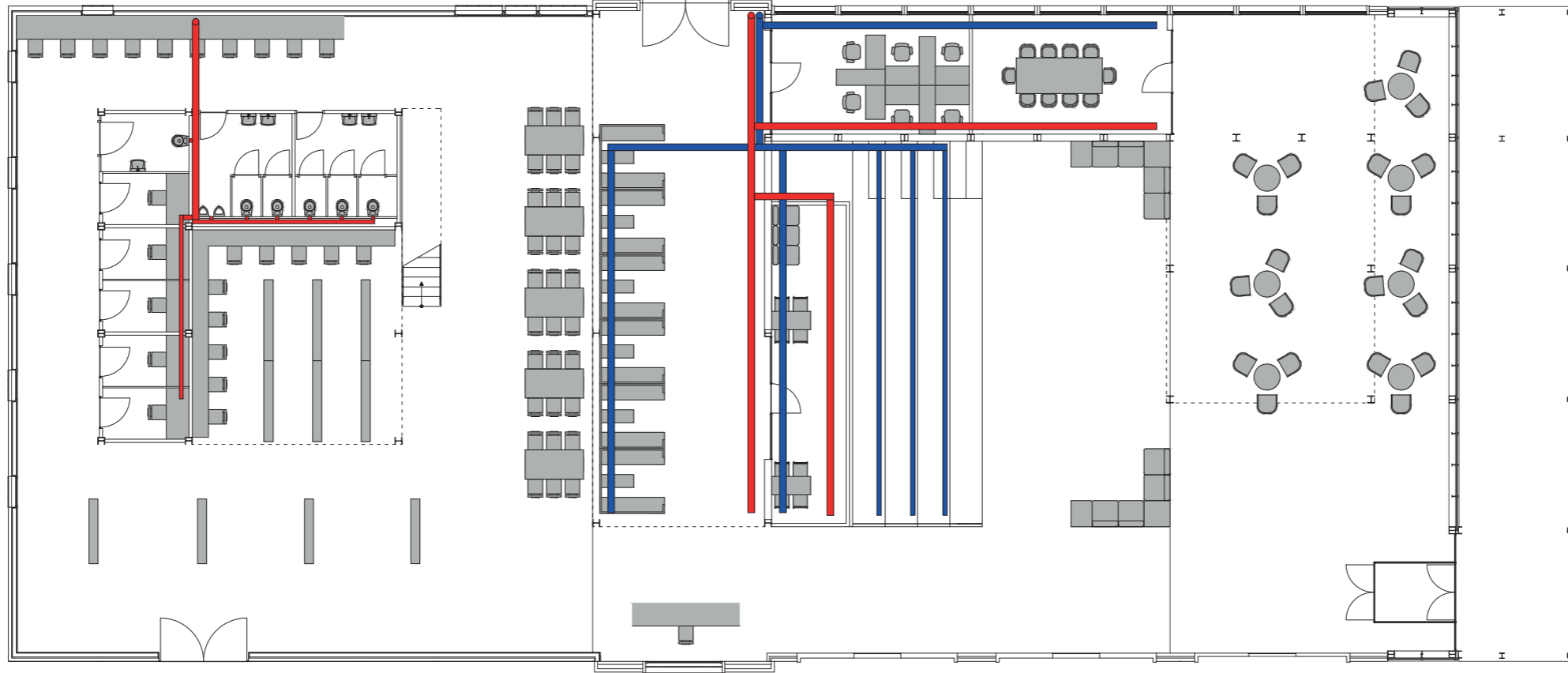
“The interventions are inspired by the existing in color, materiality, and finishing. Yet presenting themselves as clear new additions in the timeline of the building.”

Services visible

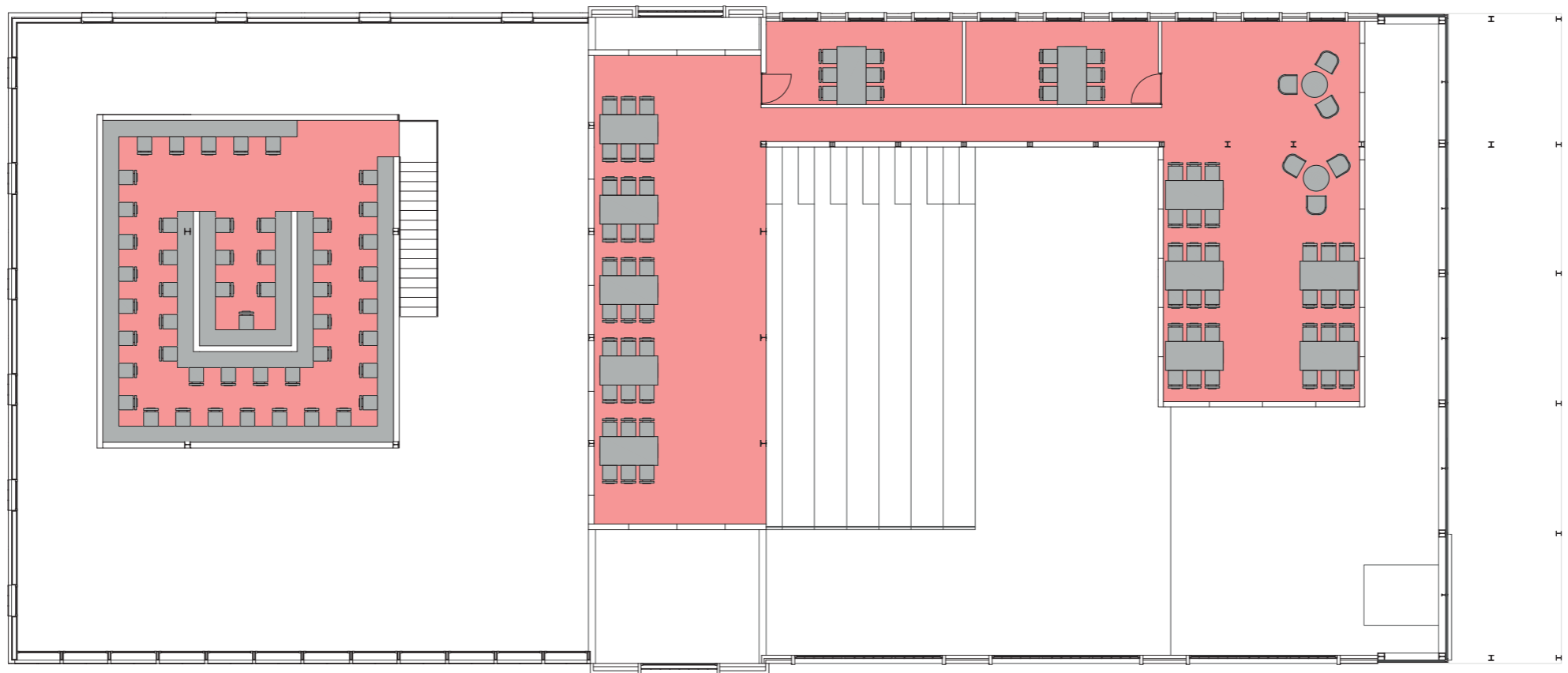


SOURCE: <https://www.seats2meettilburgspoorzone.nl>

Ventilation ducts



Floor heating zoning



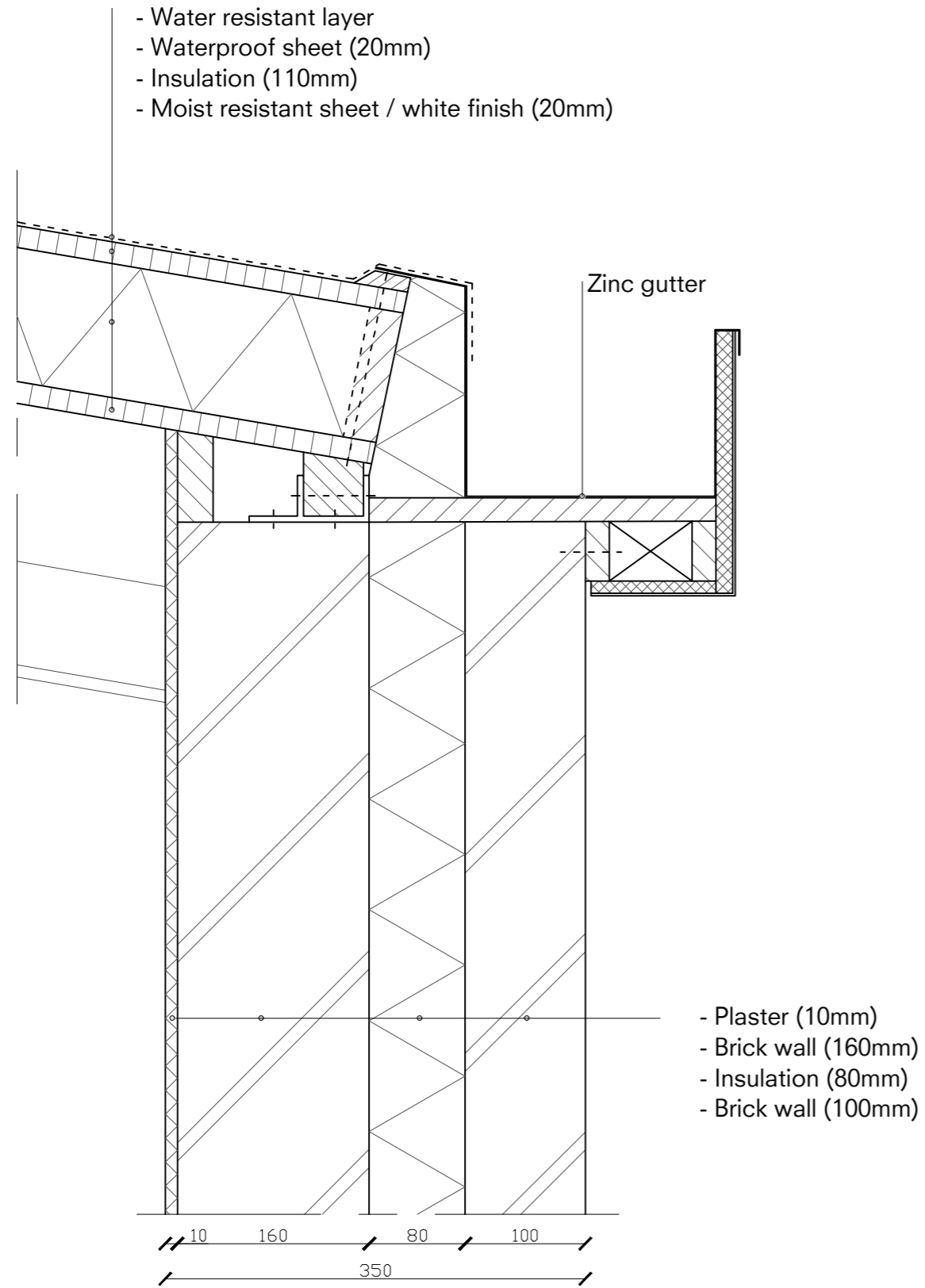
reflection



thank you.



Gutter



B



Seperation wall connection

