

music kathedrAAI

Dino Vojvodic | 5232562

P5 Presentation

The Faculty of Architecture and the Built Environment
Delft University of Technology

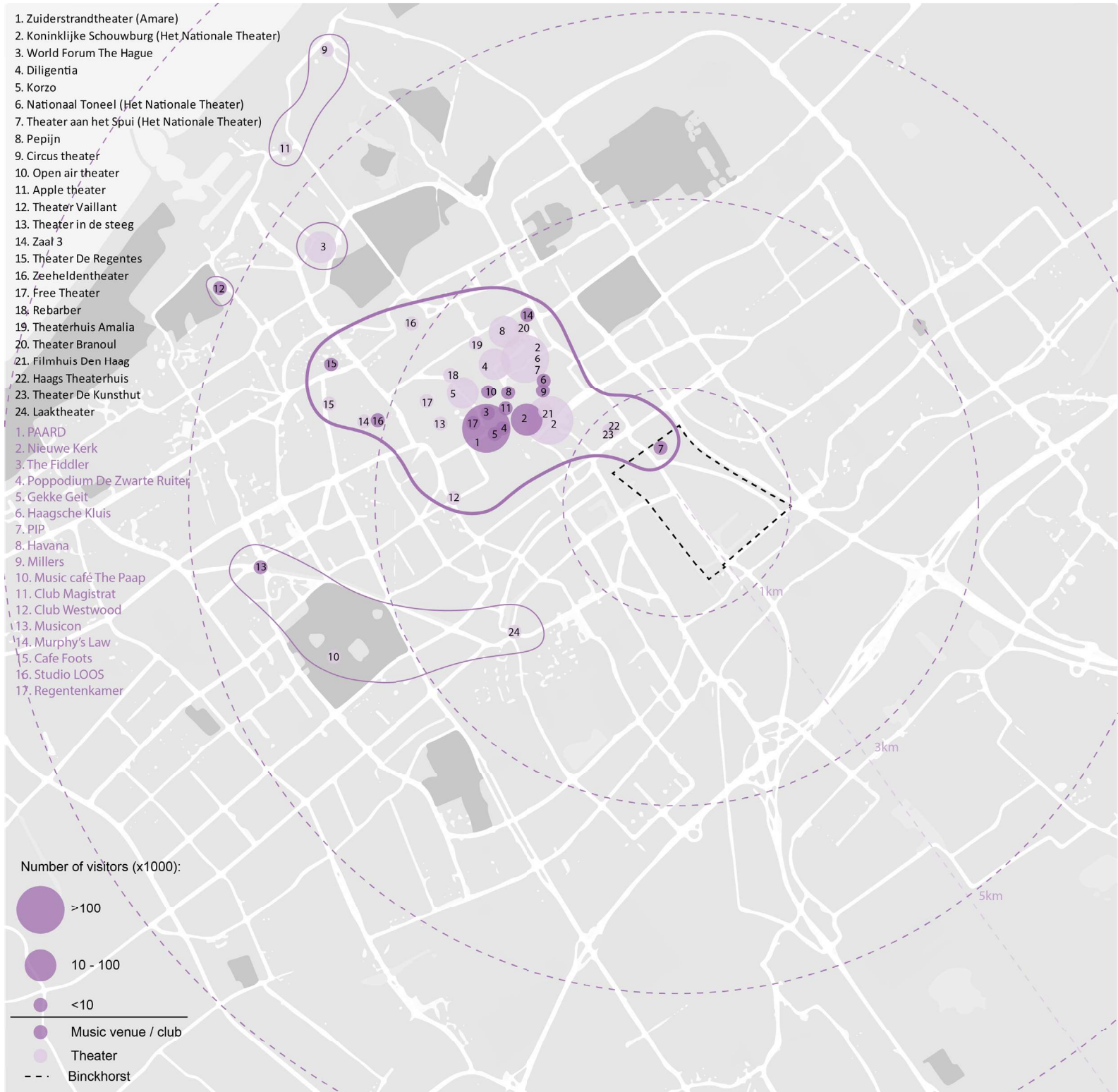
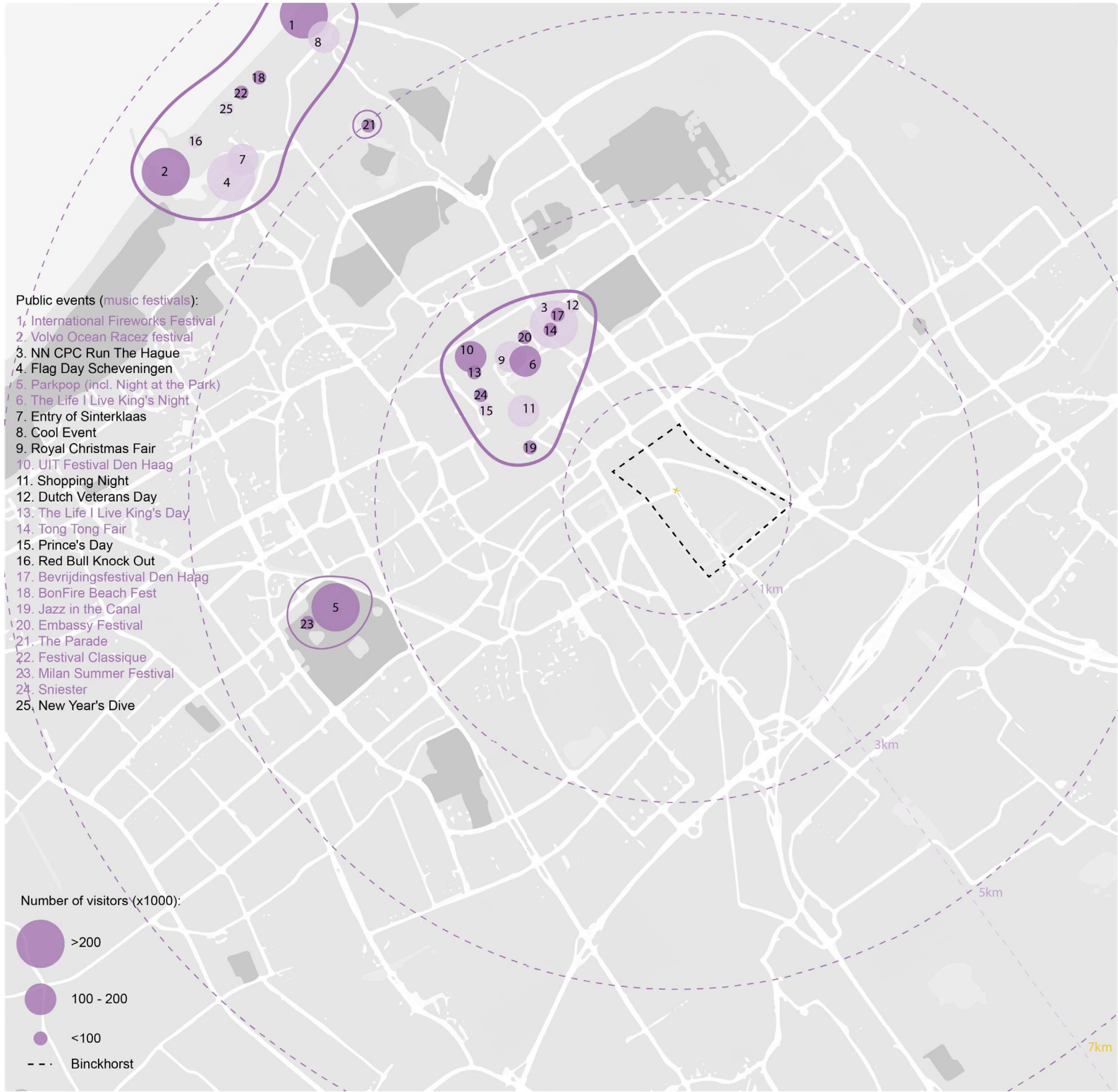
AR3AP100 Public Building Graduation Studio
MUSIC MARVEL

Mentors

Project Design: Ir. Stefan Witteman
Building Technology: Piero Medici, PhD
Theory Research: Dr. Sang Lee
Delineation Research: Dr. Nicola Marzot

Research & Location

The Hague | Culture Clusters



The Hague | Music Venues

Amare



Malieveld



Paard

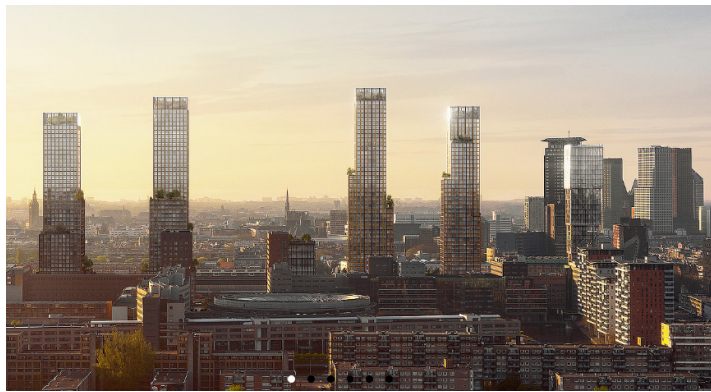
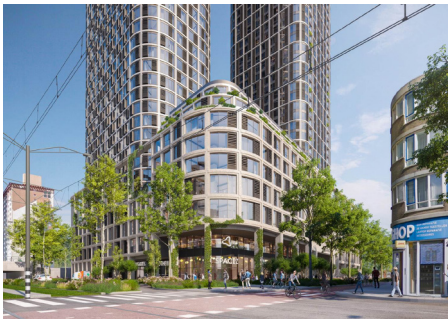
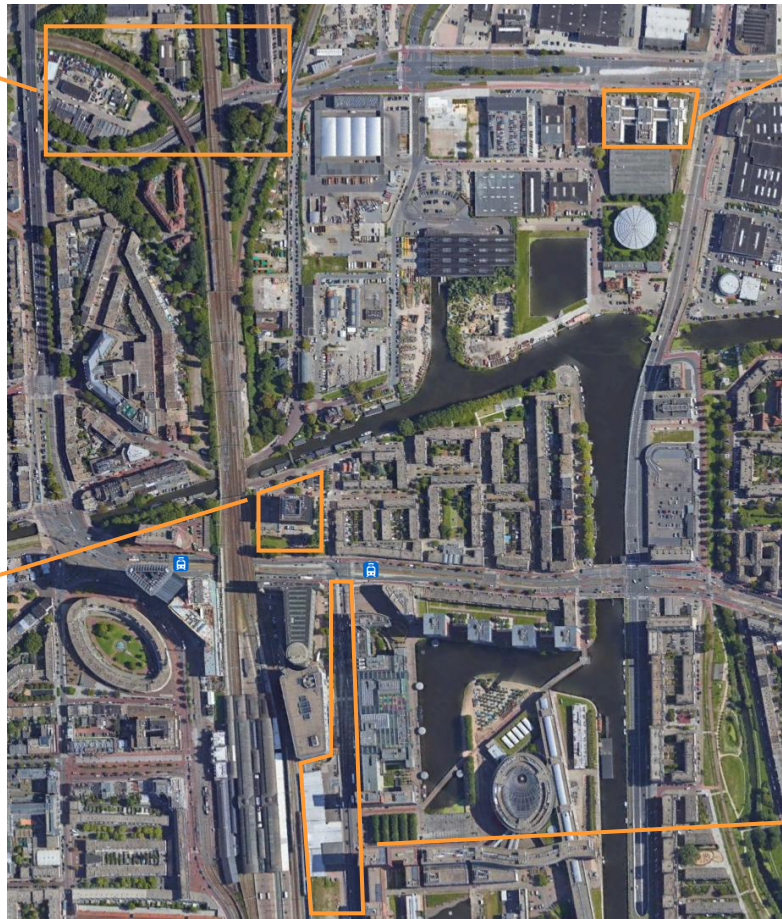


Binckhorst | Now



Source: Google Earth

Binckhorst | Future

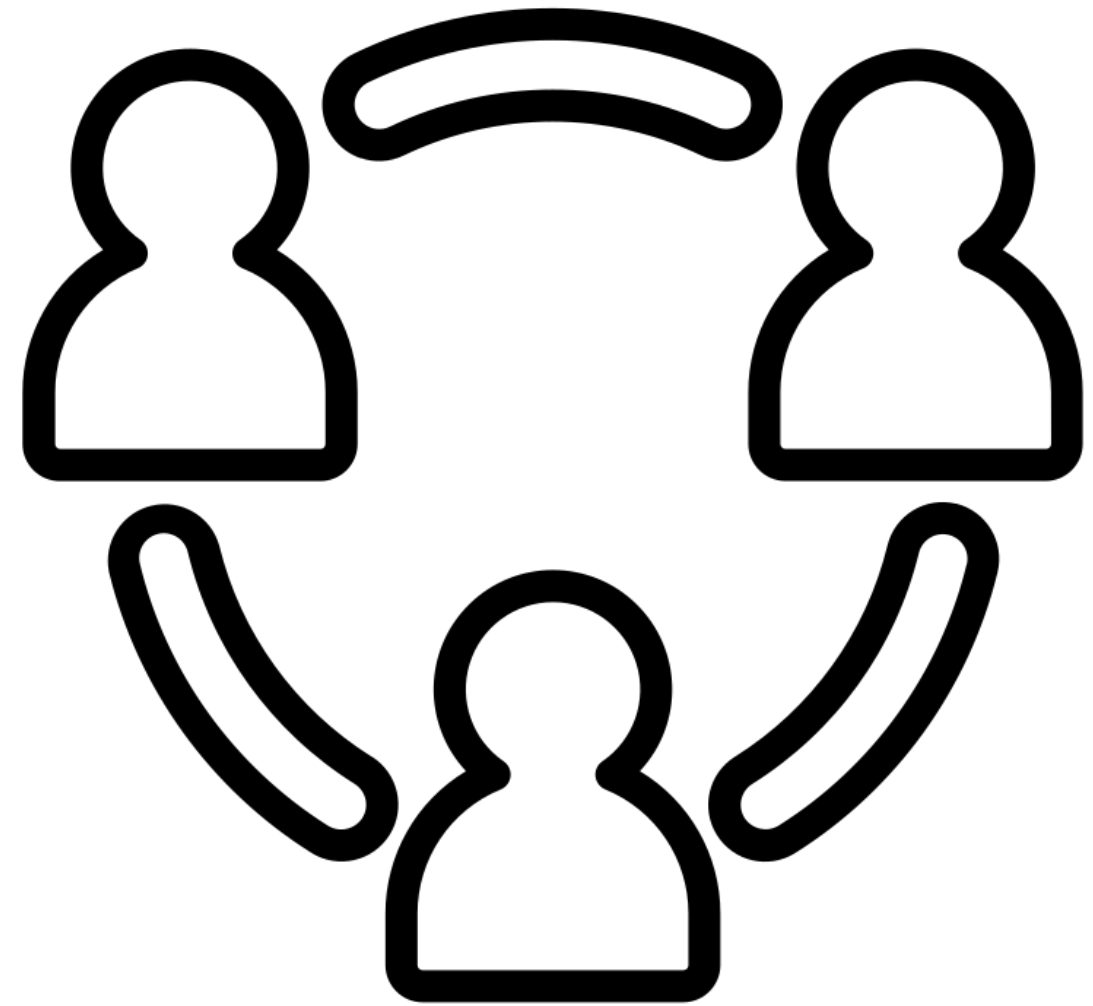


WHAT IS MISSING?

The Hague | Night club



Binckhorst | Community center



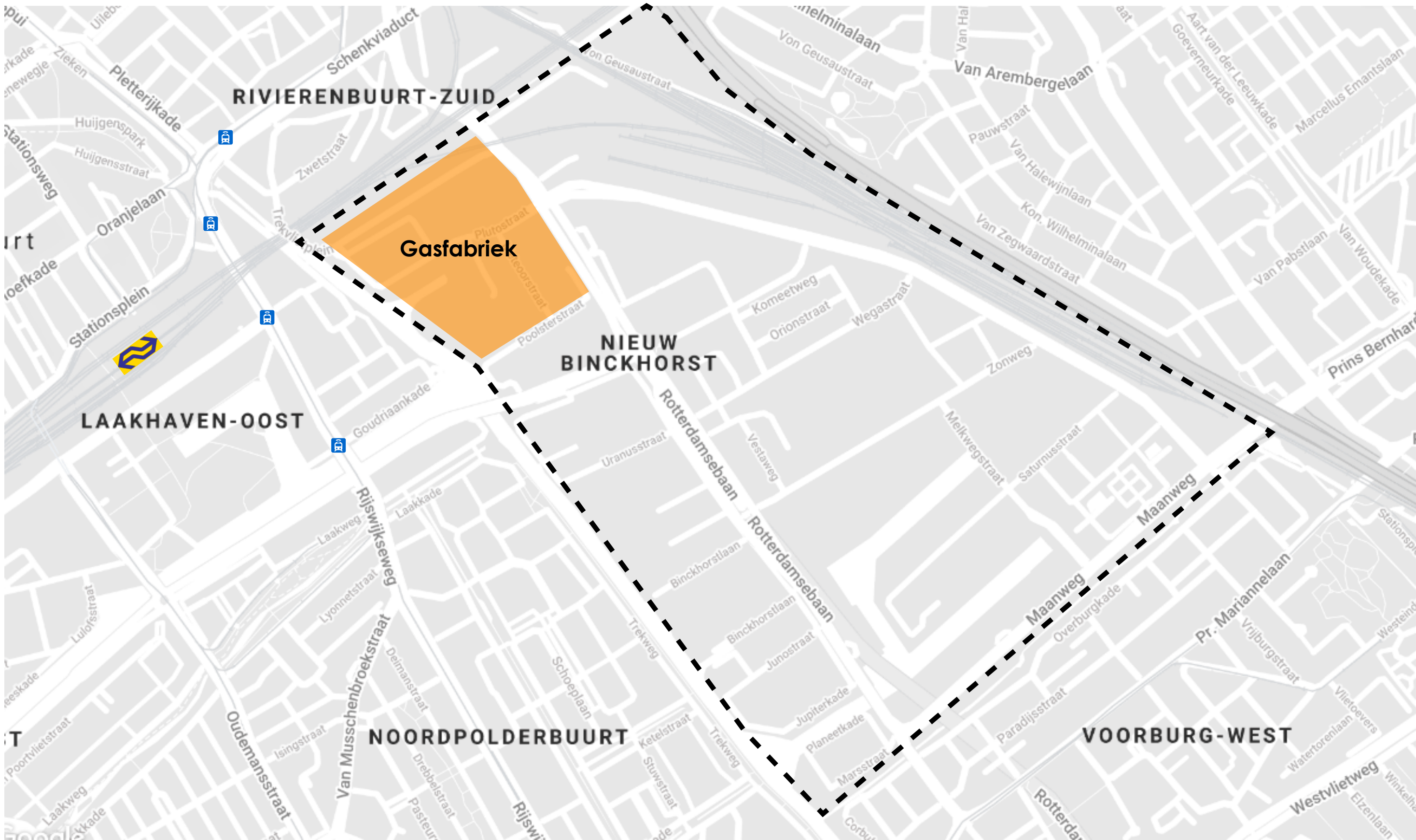
Who?

Design Manifesto

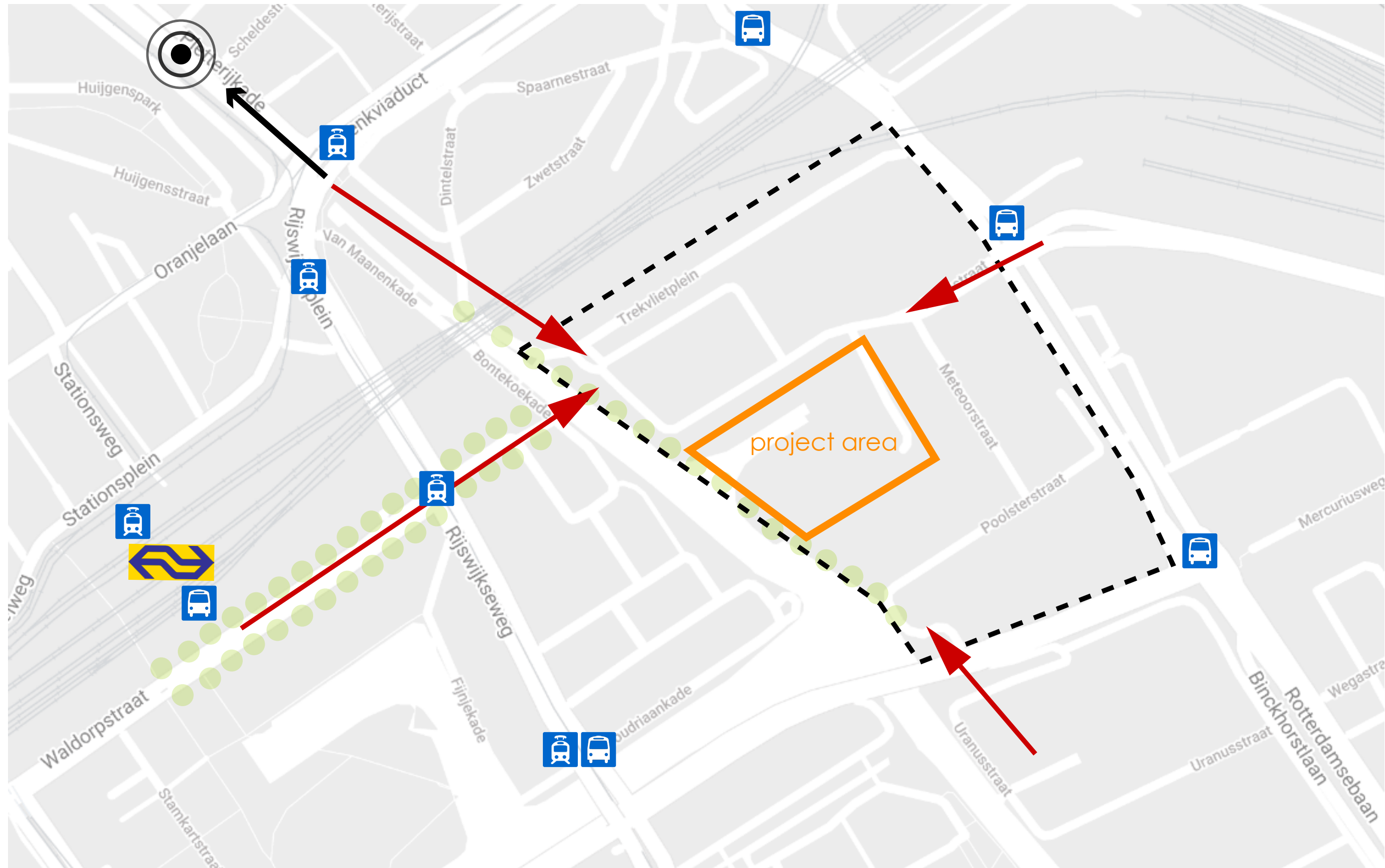


Where & Why?

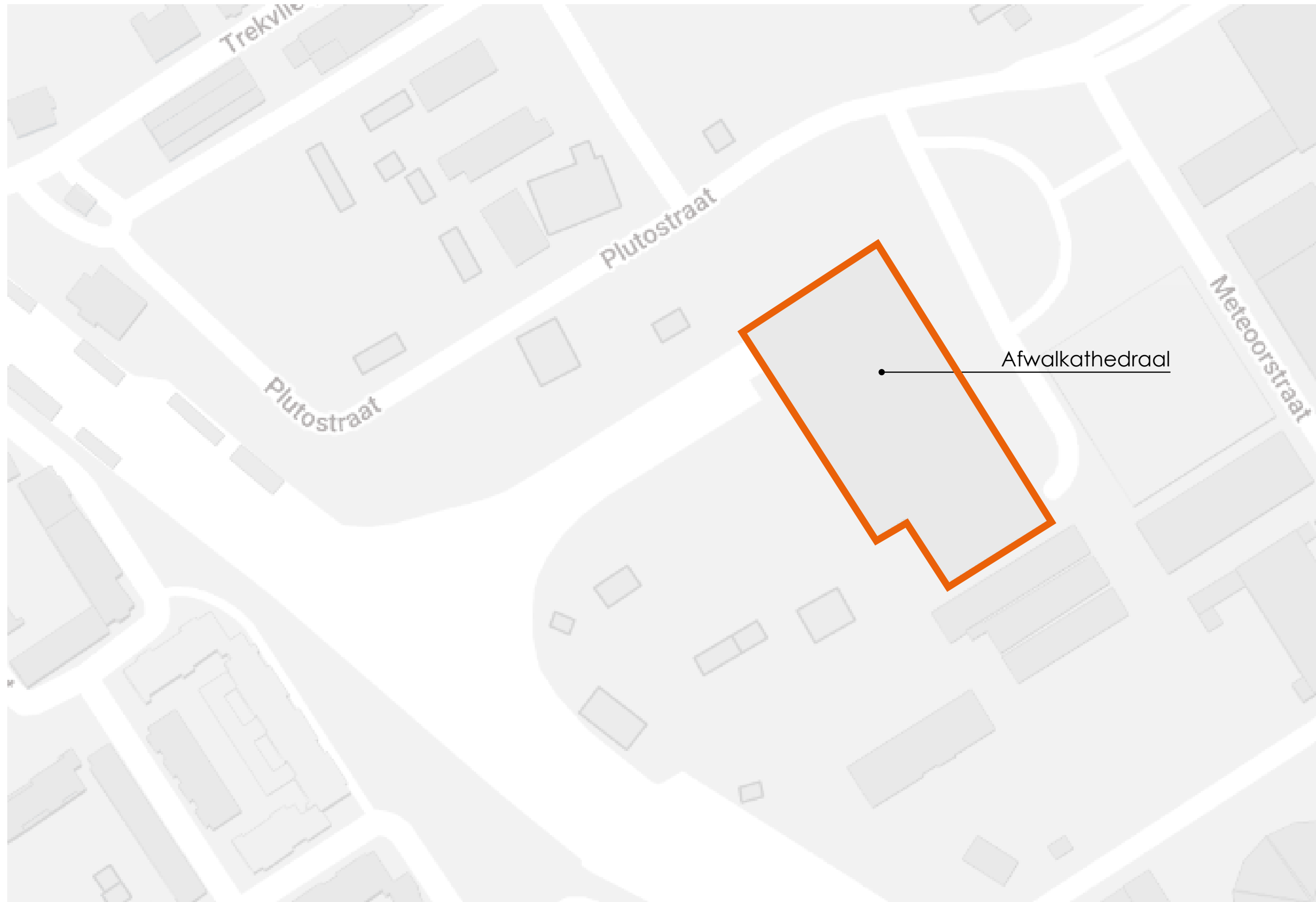
Project site



Site Connection



Project Location



Afwalkathedraal

architect: Jan Brouwer

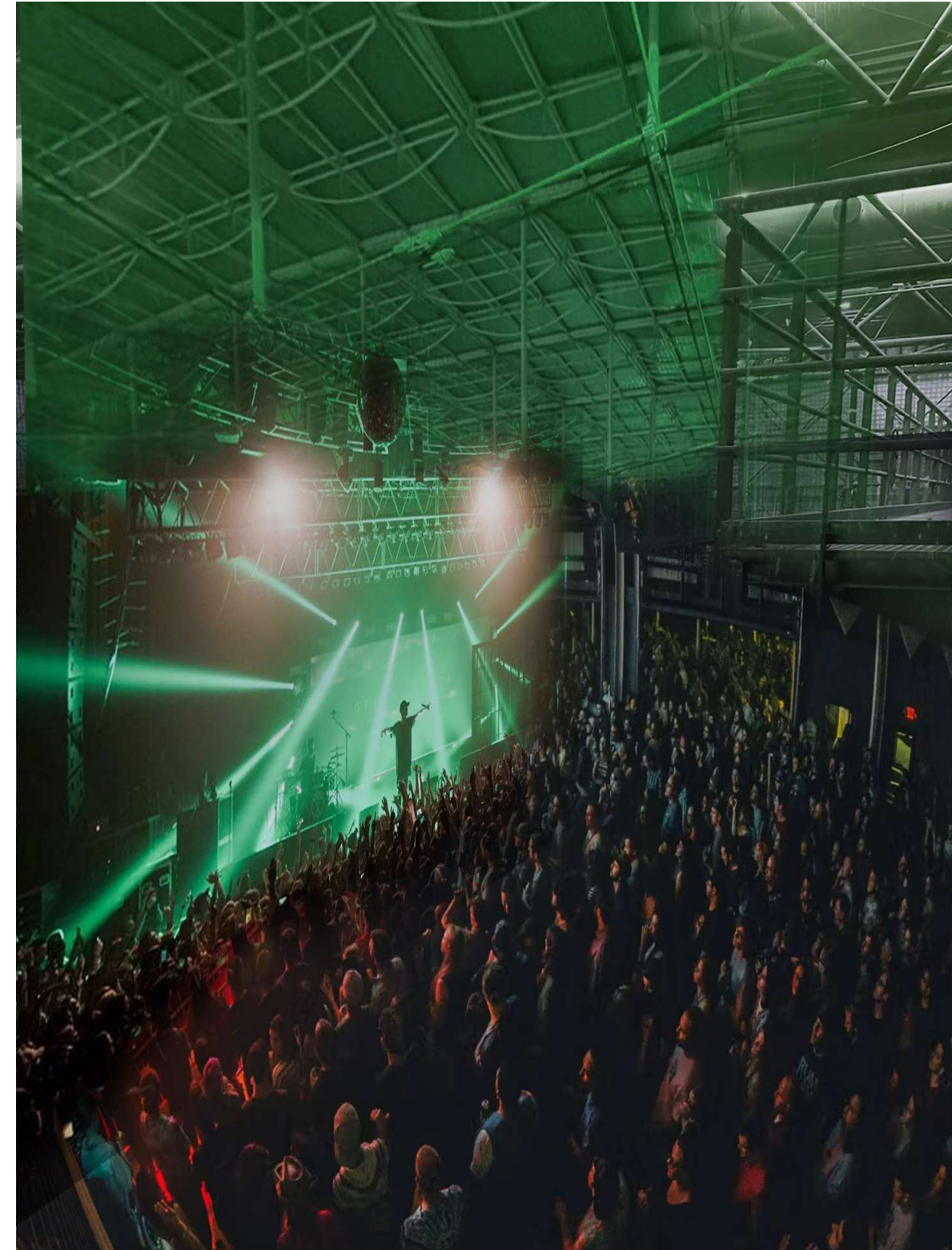
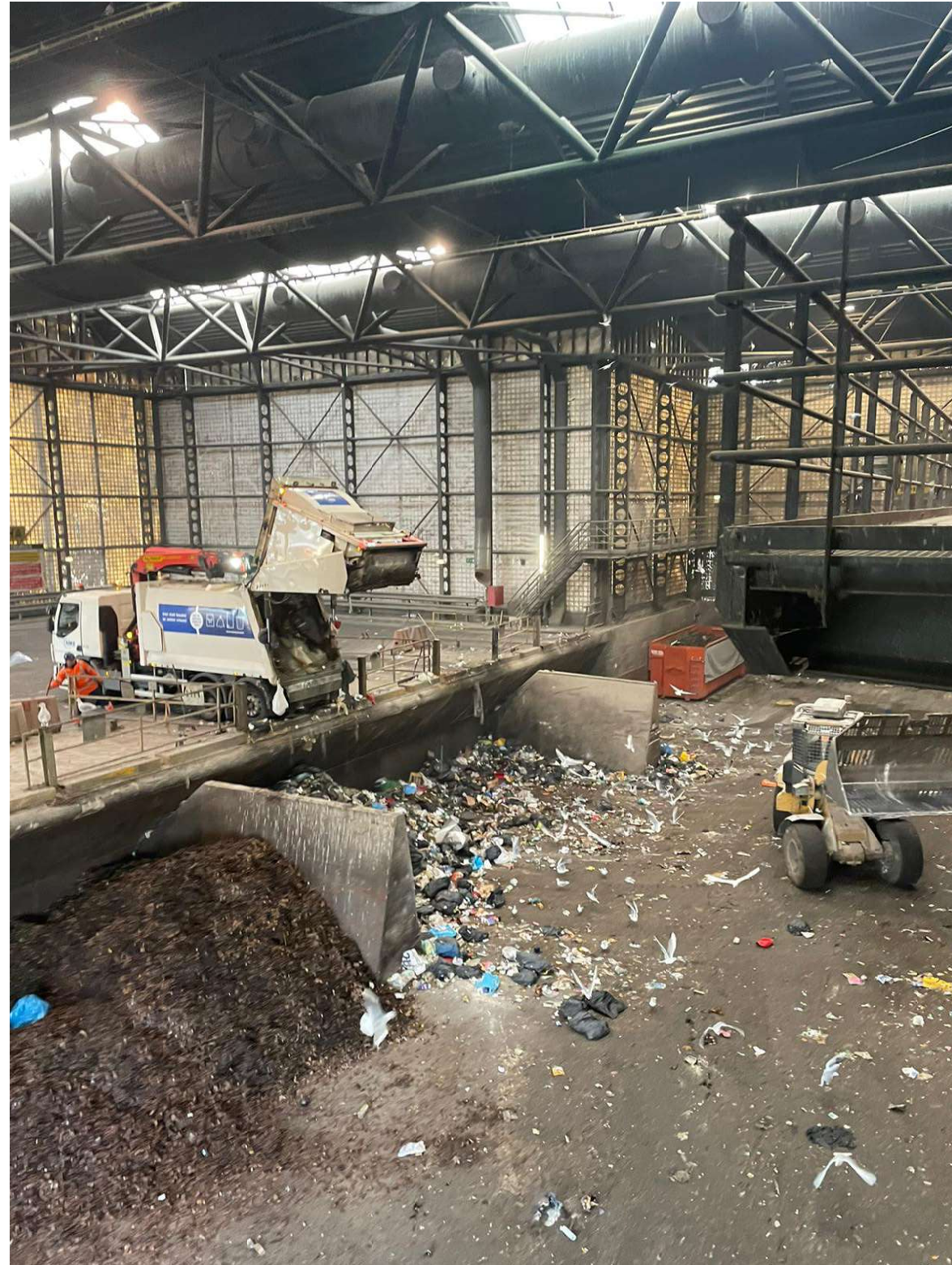
year: 1995

function: waste processing facility

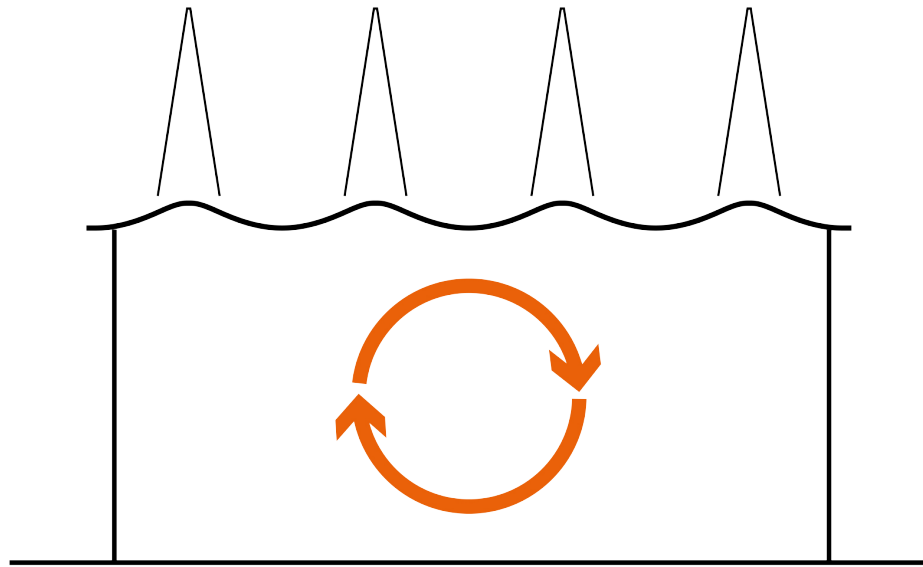


What & How?

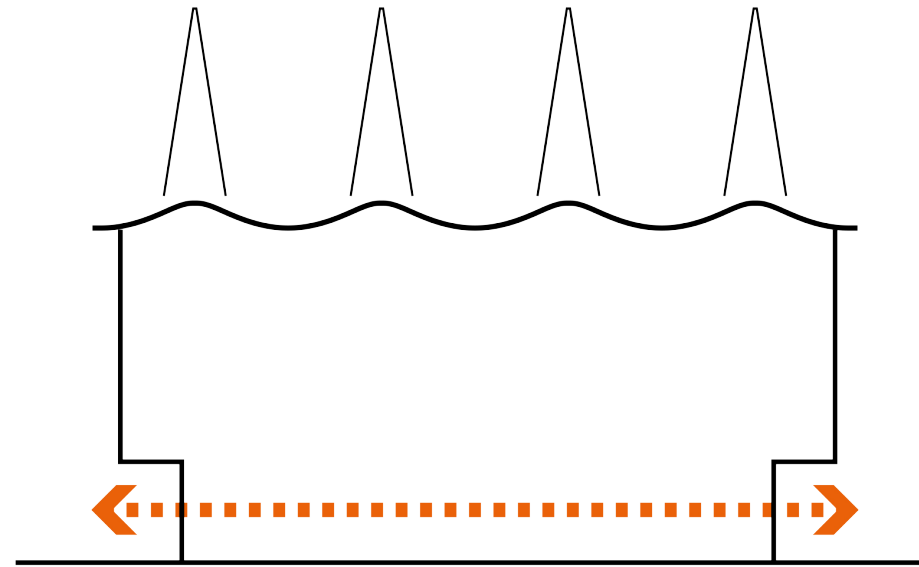
Waste Kathedraal >> Music Kathedraal



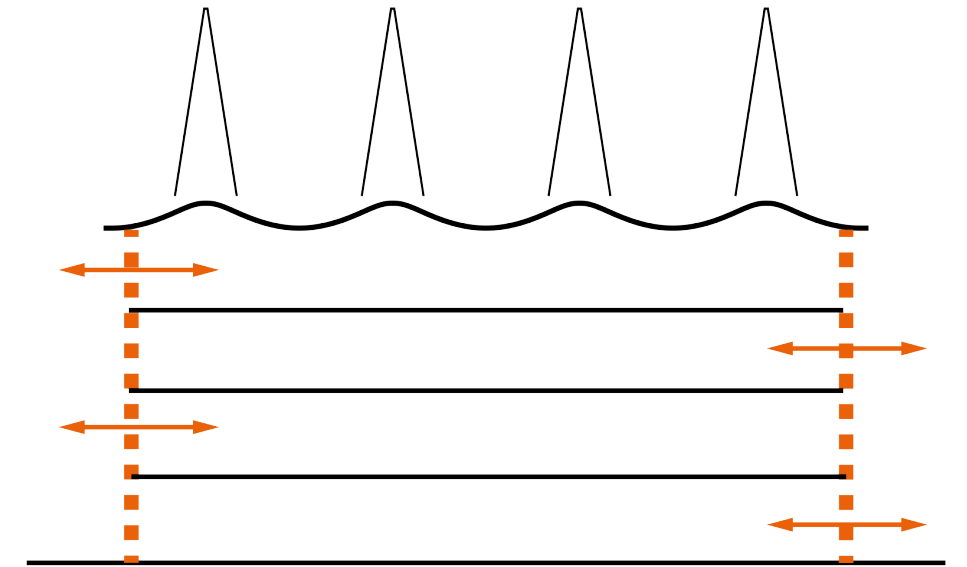
Design Principles



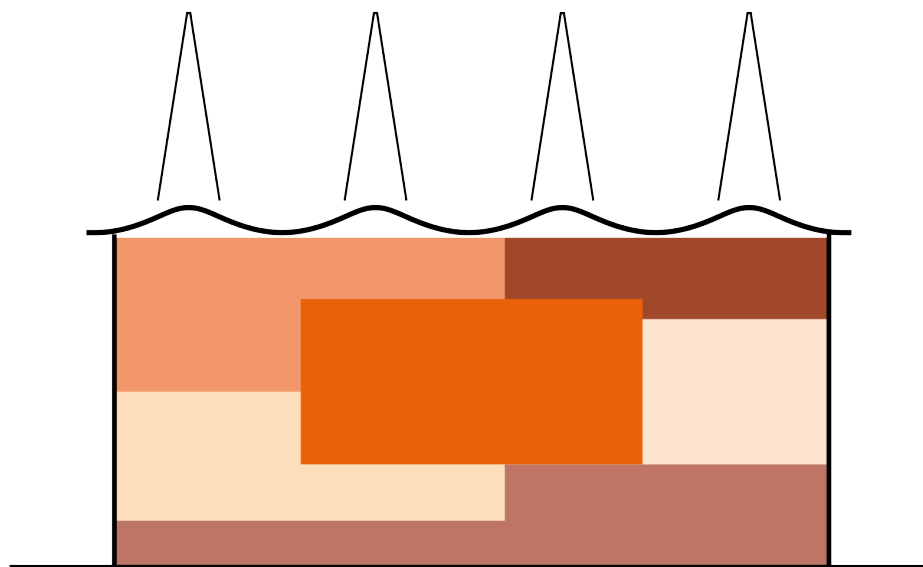
adaptive reuse



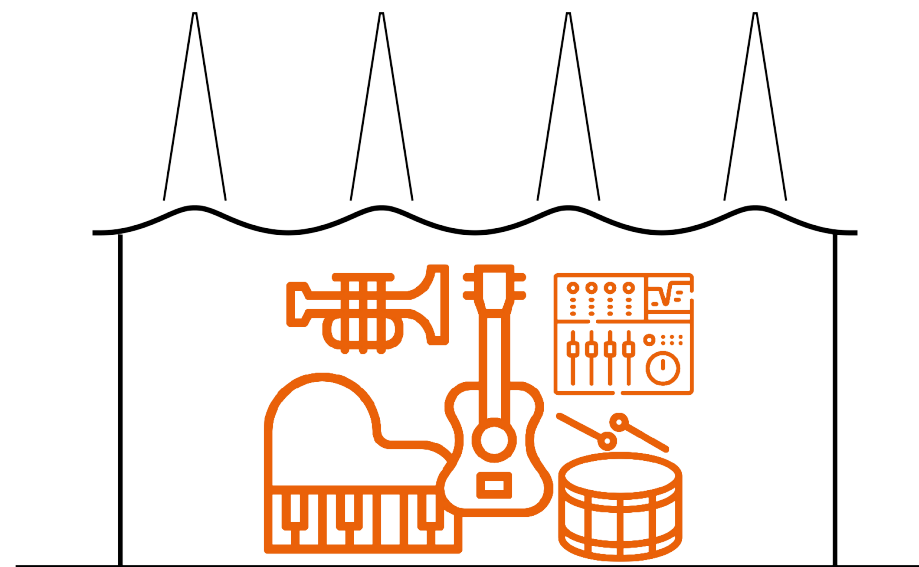
public promenade



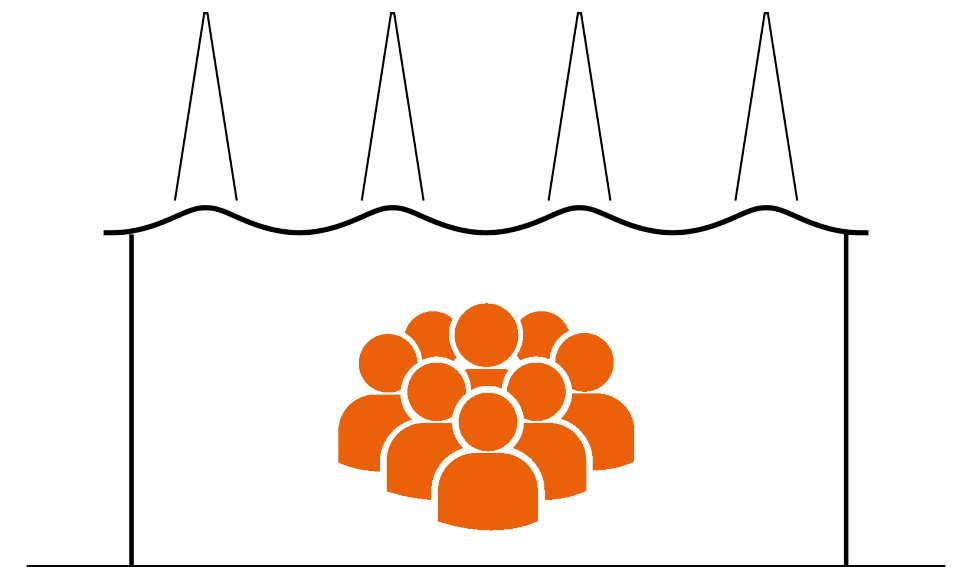
open facade



multifunctionality



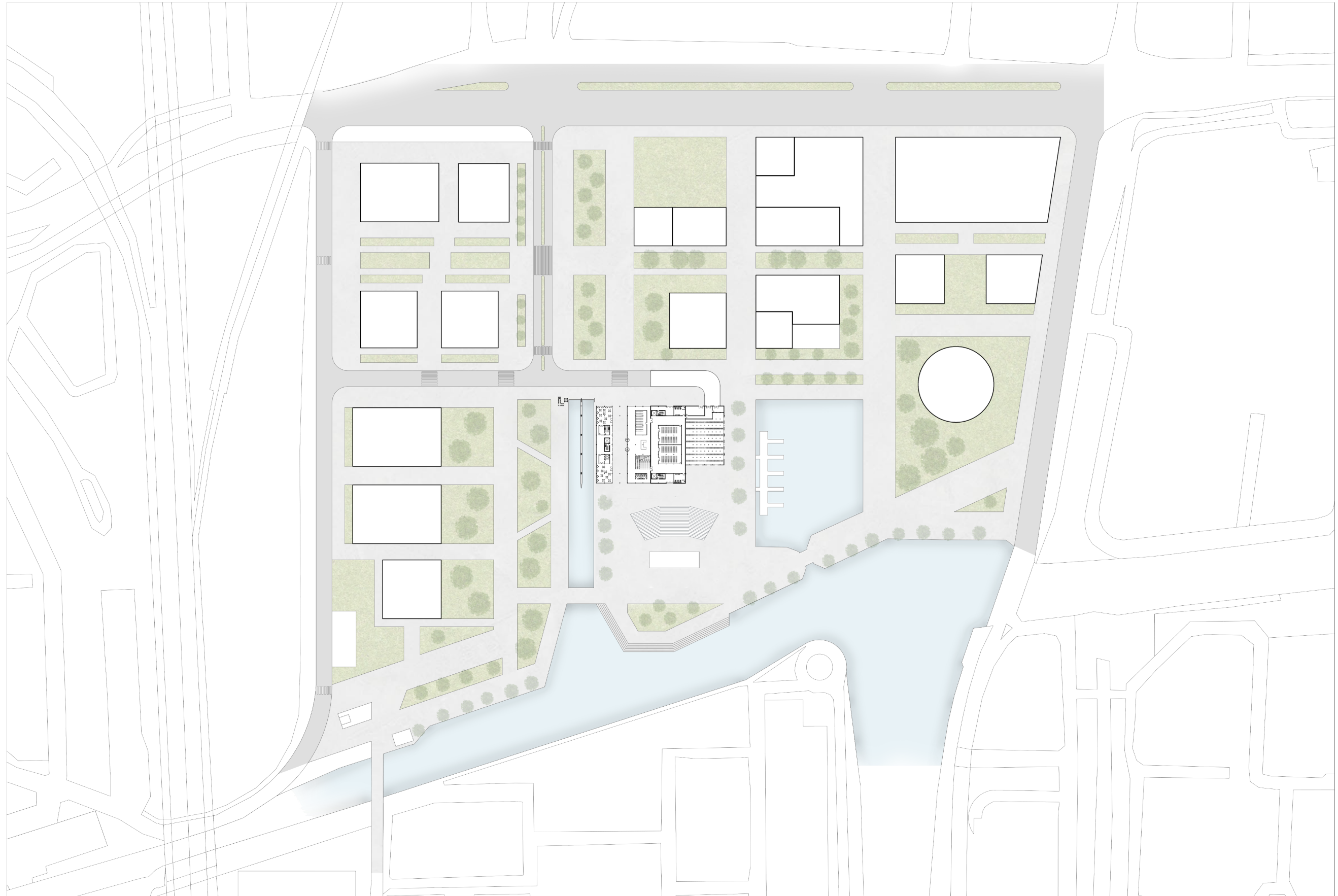
genre diversity



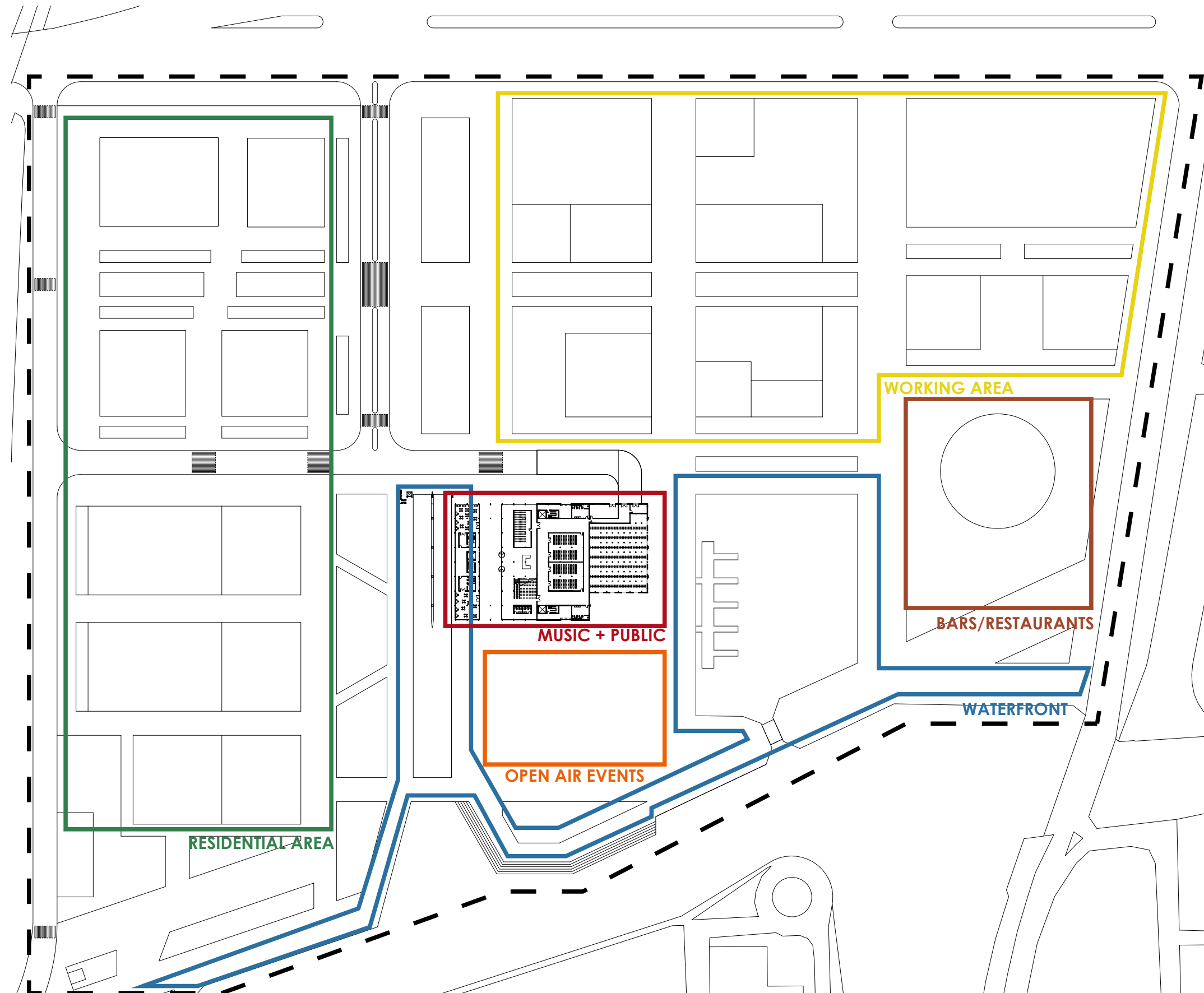
community

Design **Urbanism**

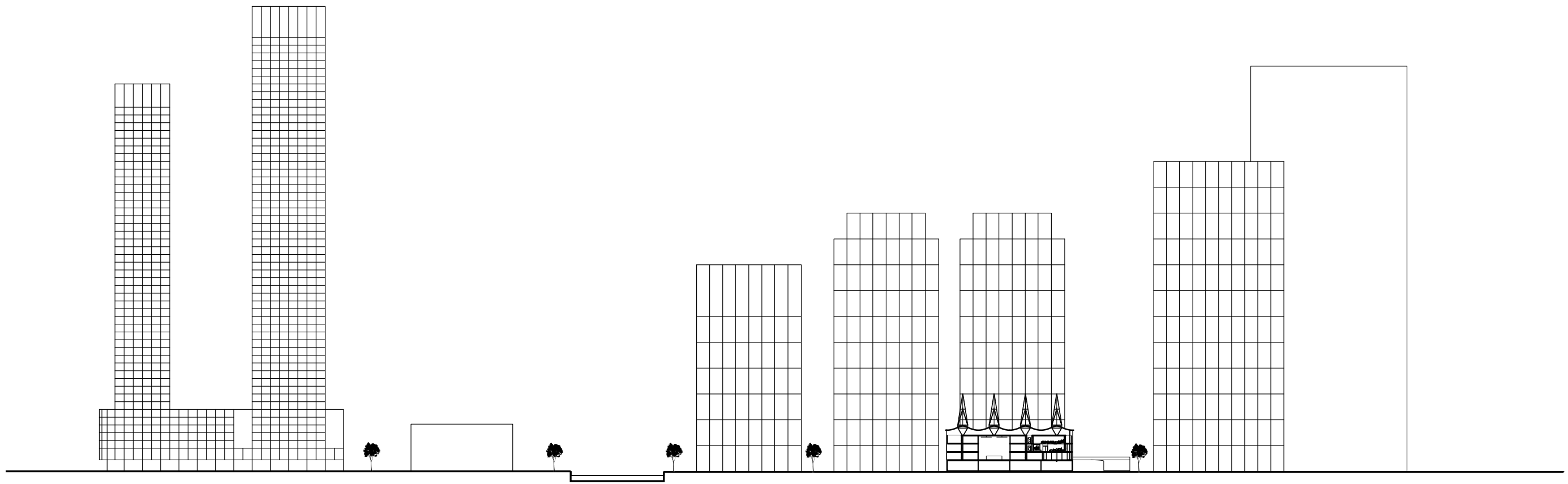
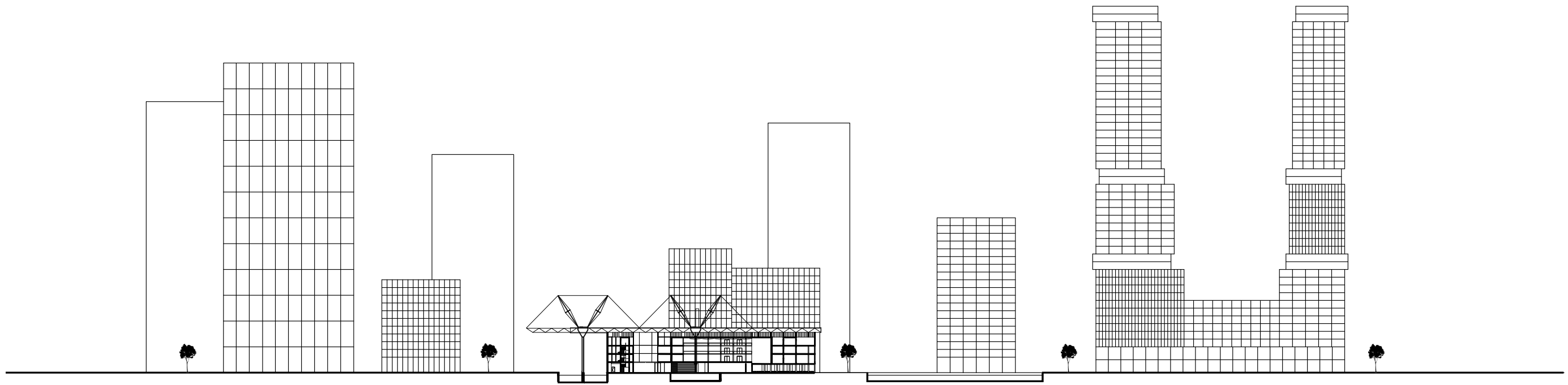
Site plan



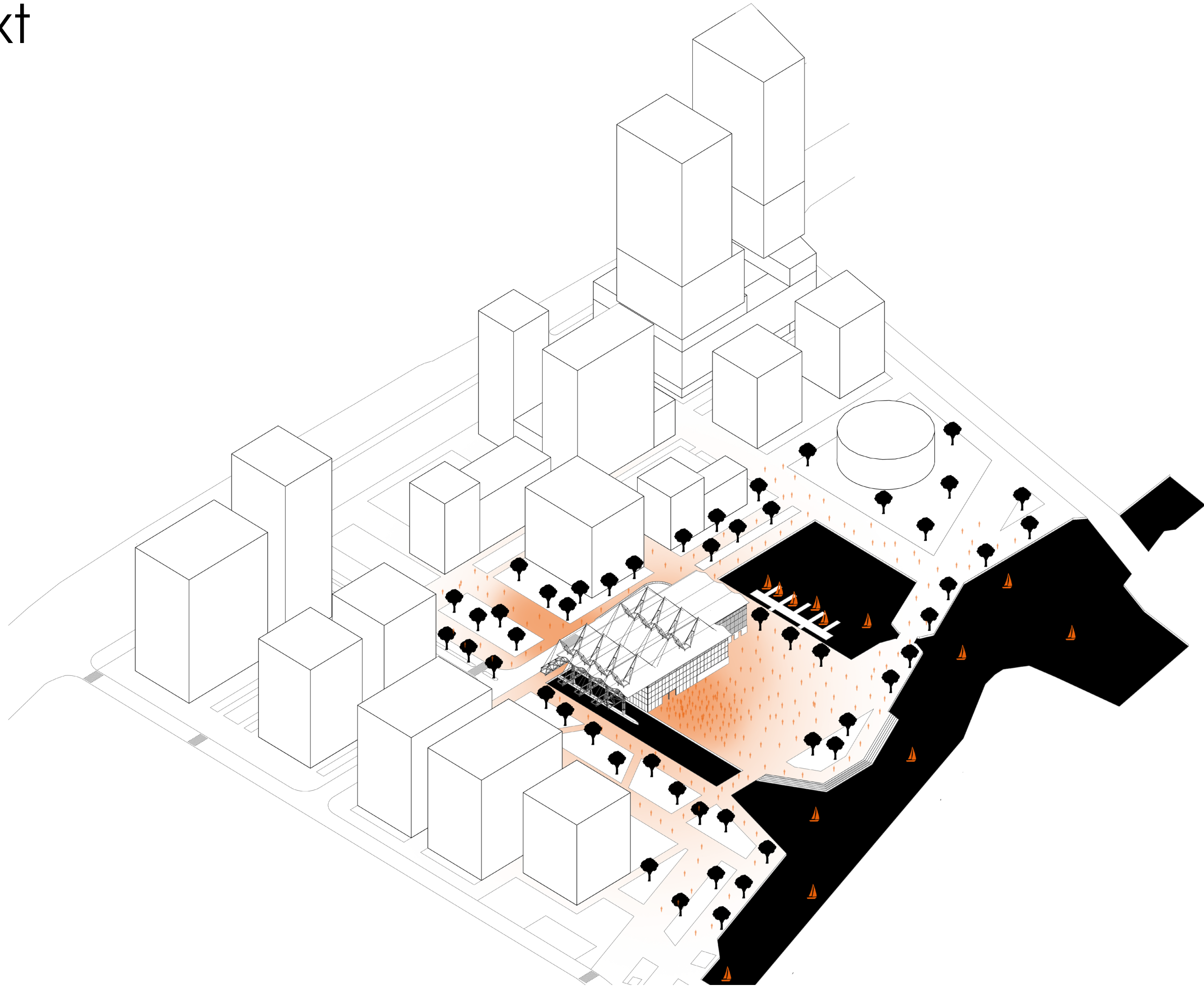
Activity zones



Site profiles



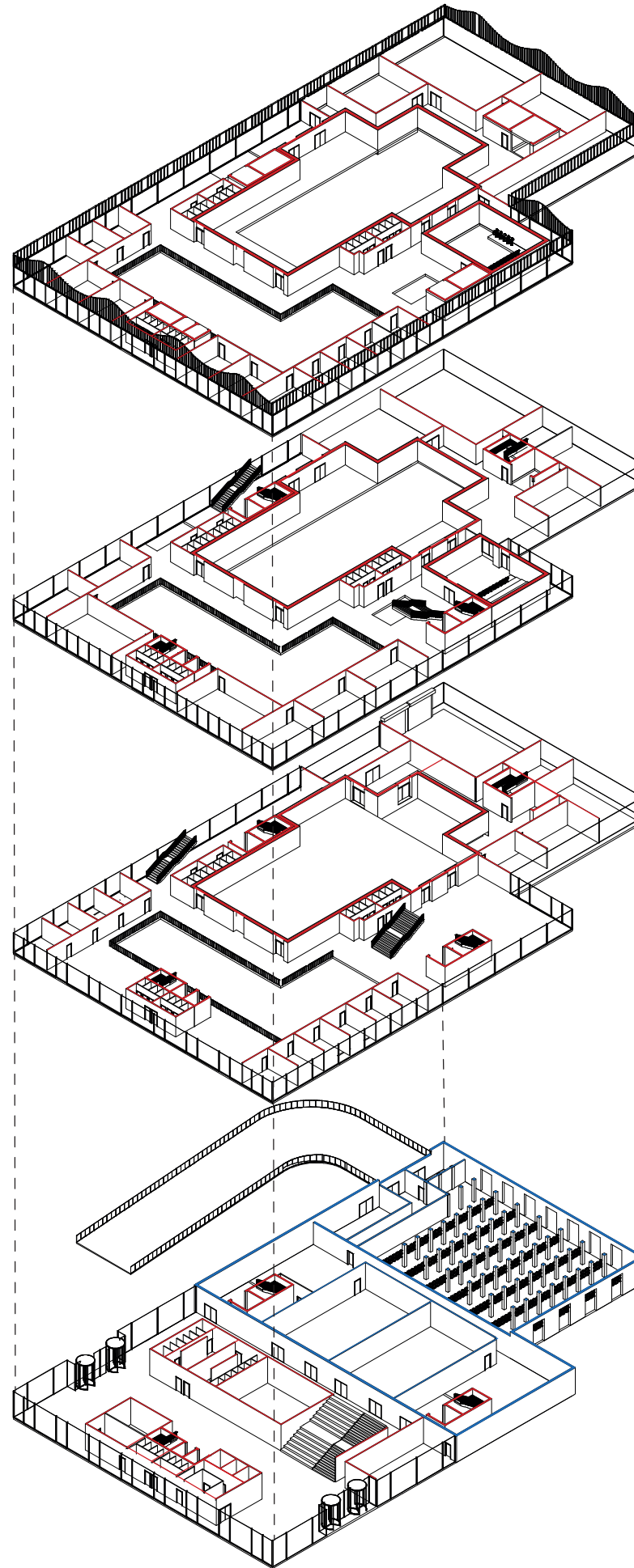
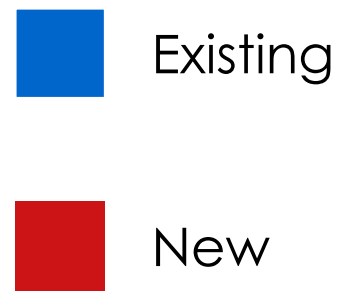
Context



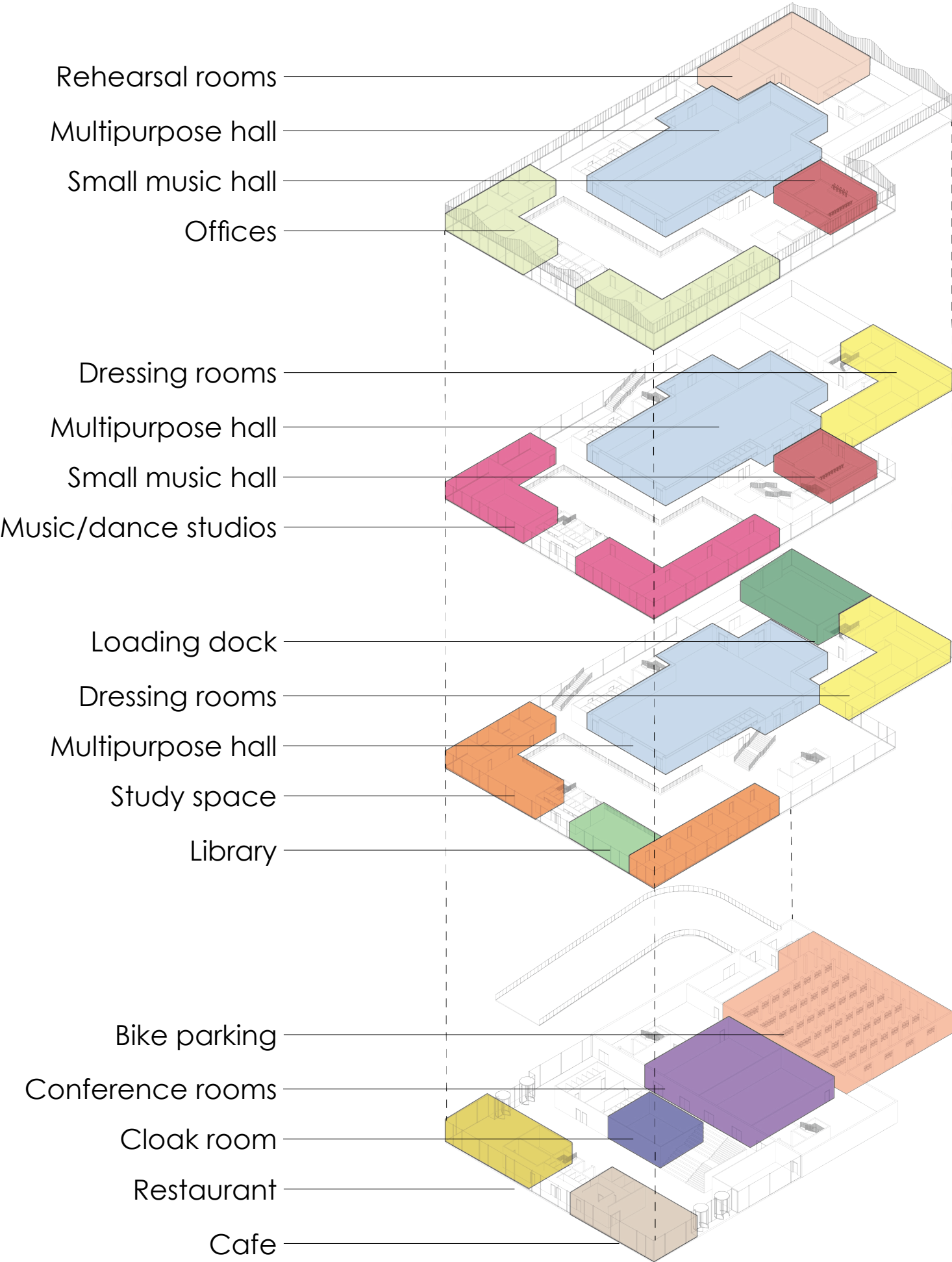
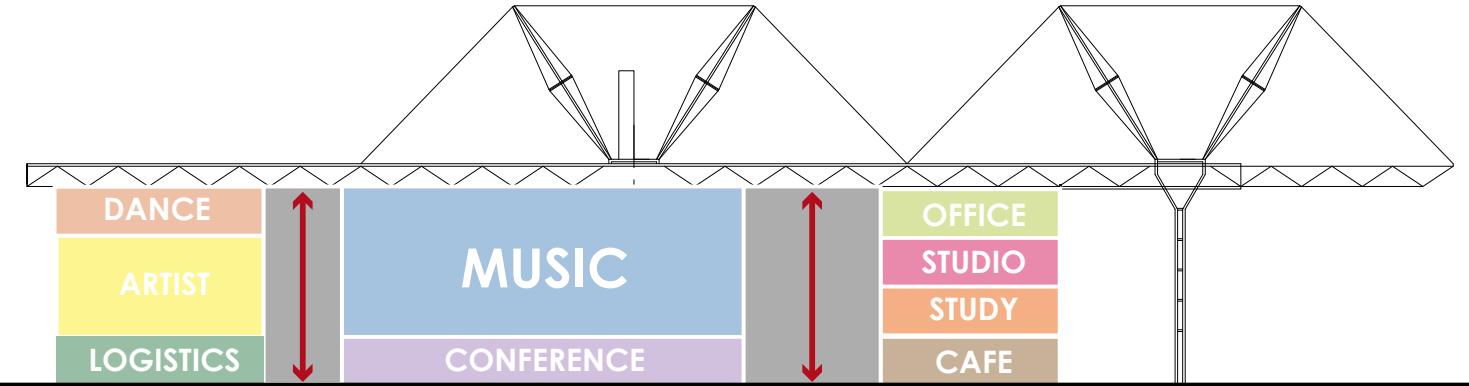


Design
Architecture






Spatial Structure

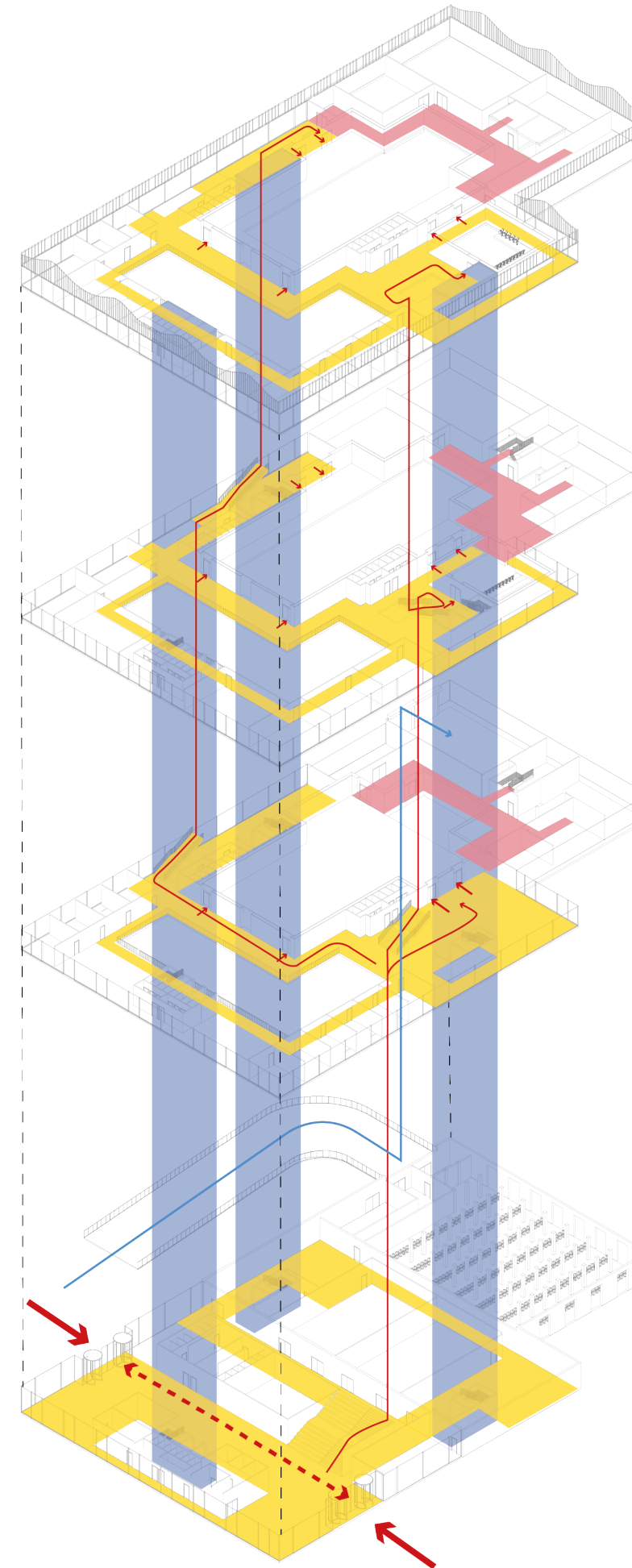


Program Implementation

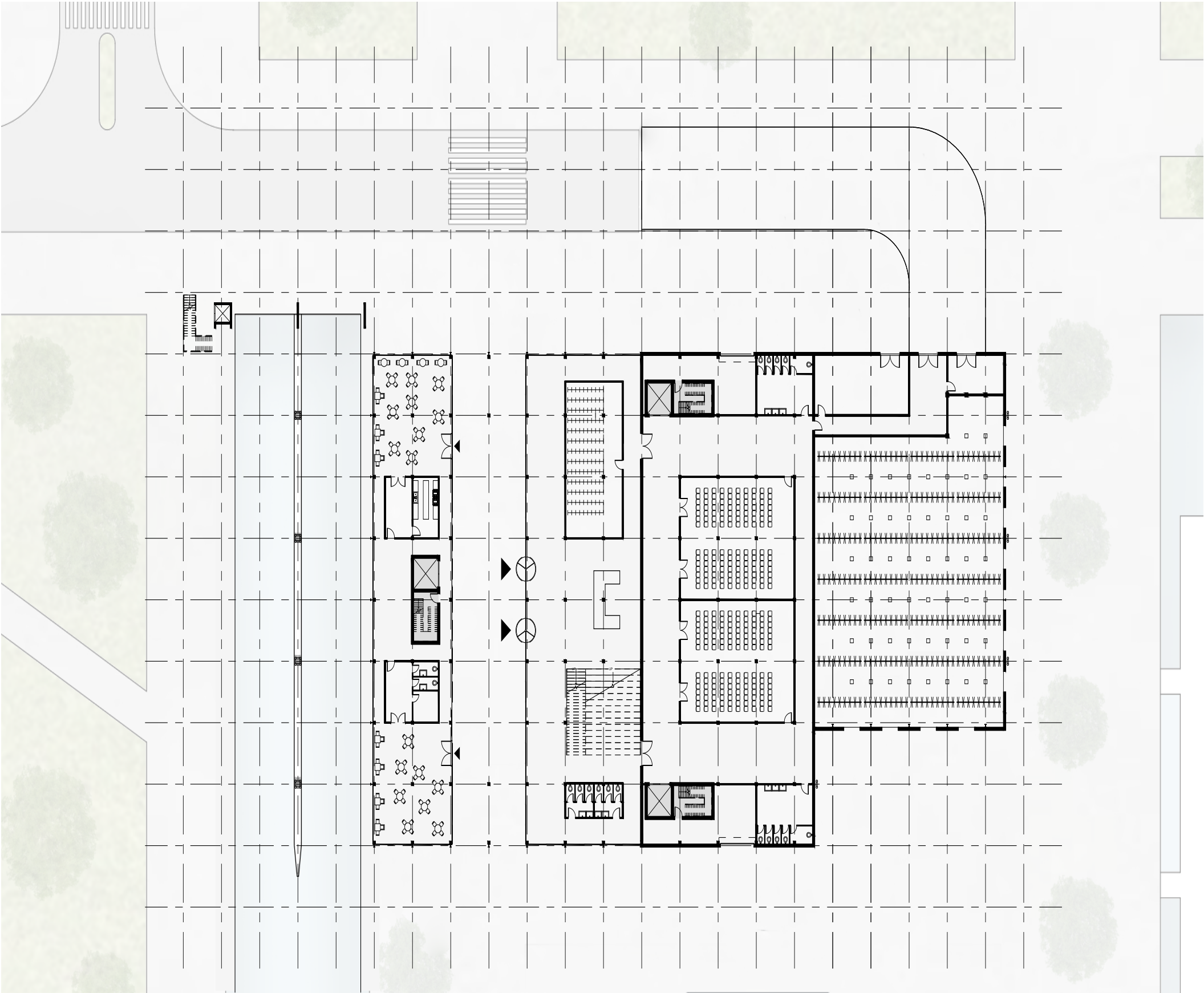


Routing

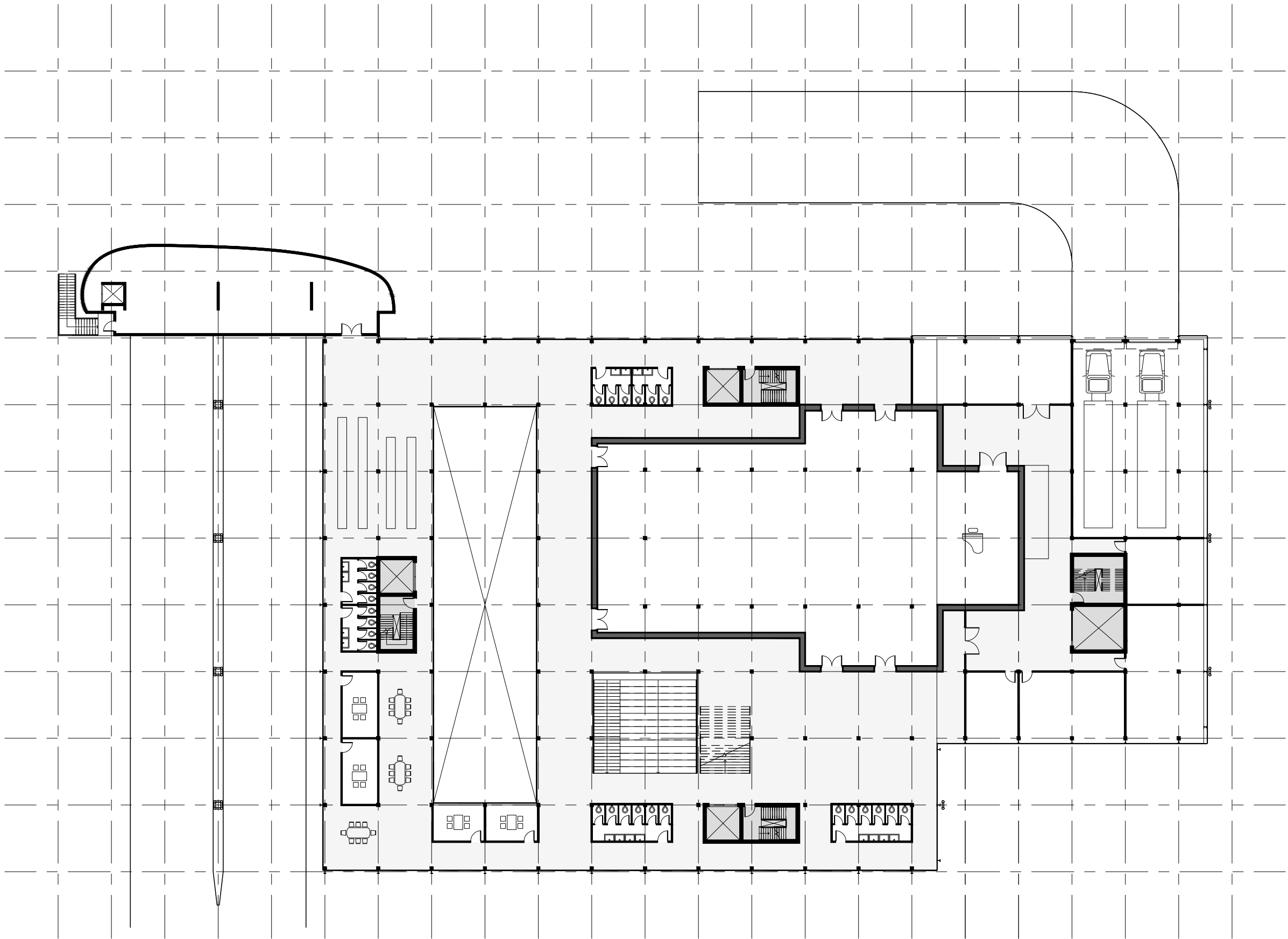
-  Public routing
-  Artist routing
-  Vertical routing
-  Main circulation
-  Cargo access



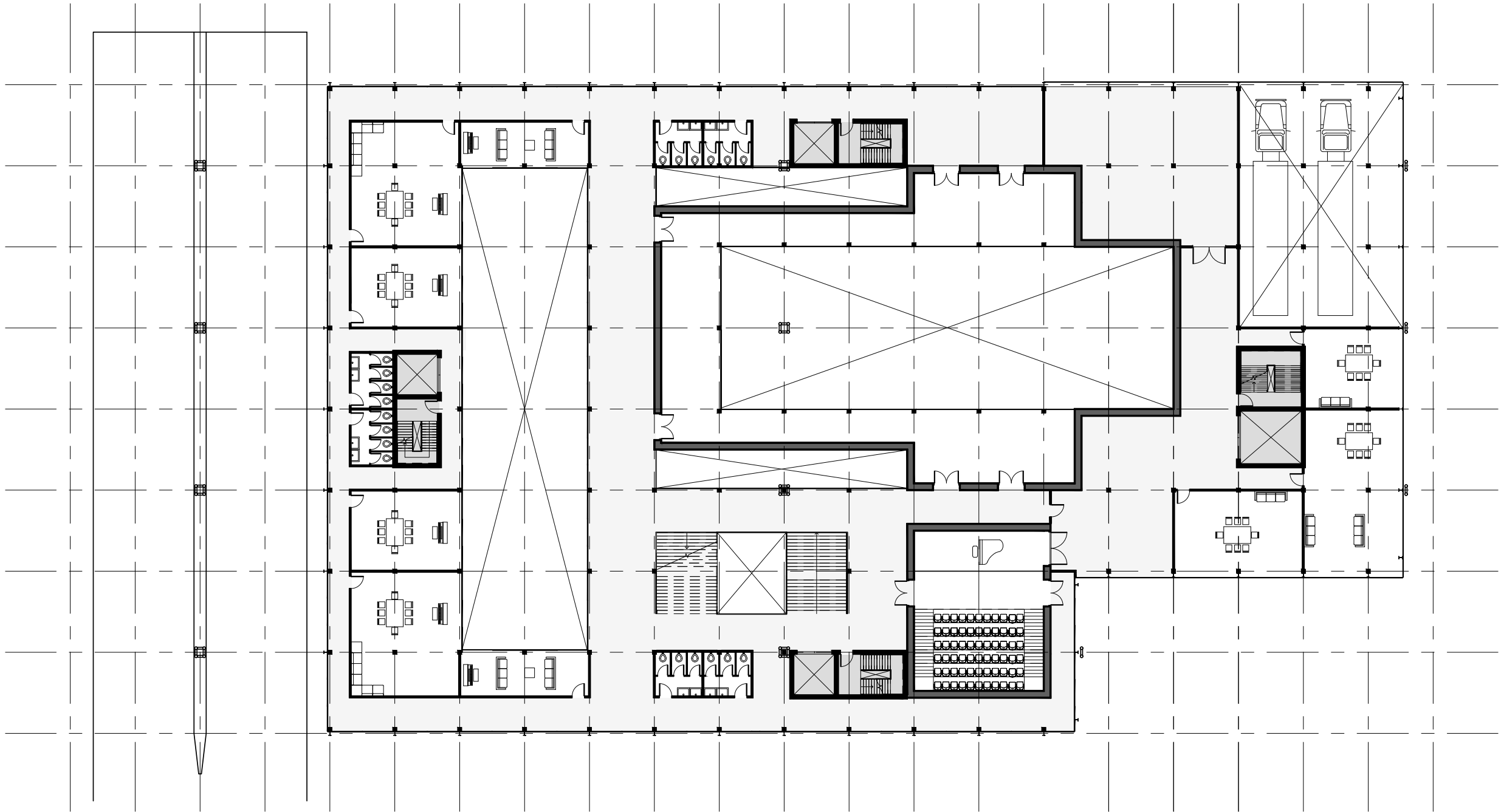
Ground Floor



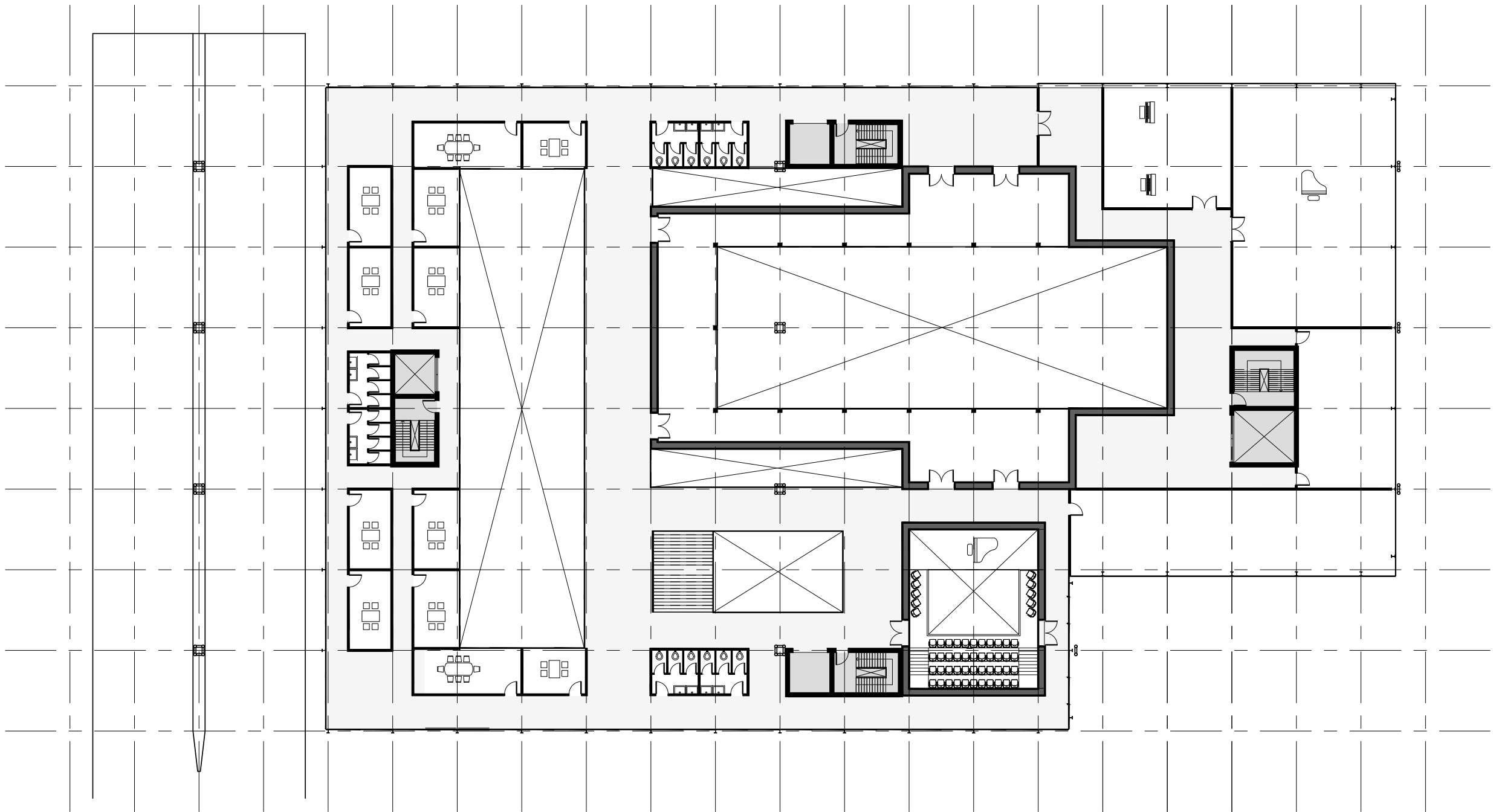
1st Floor



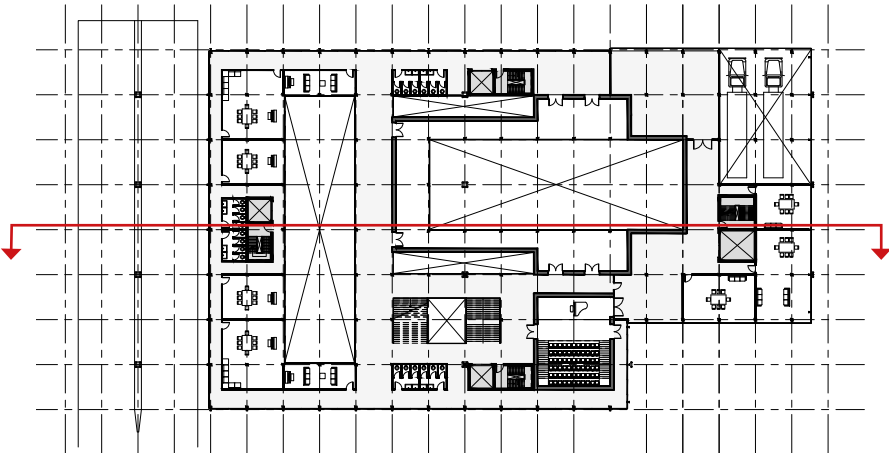
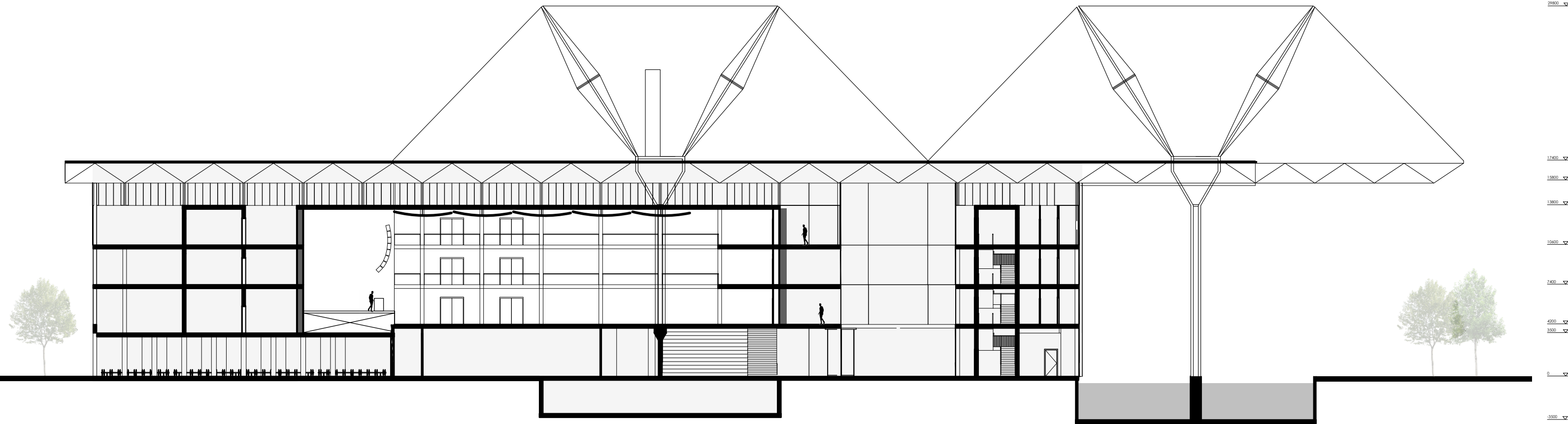
2nd Floor



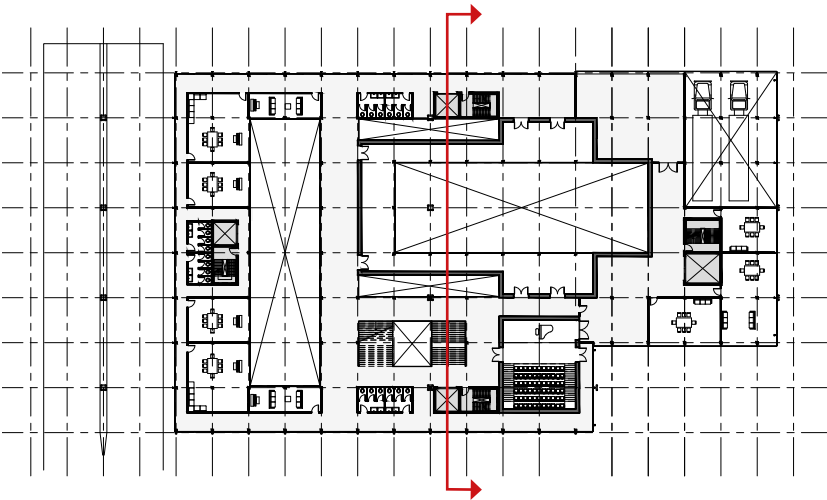
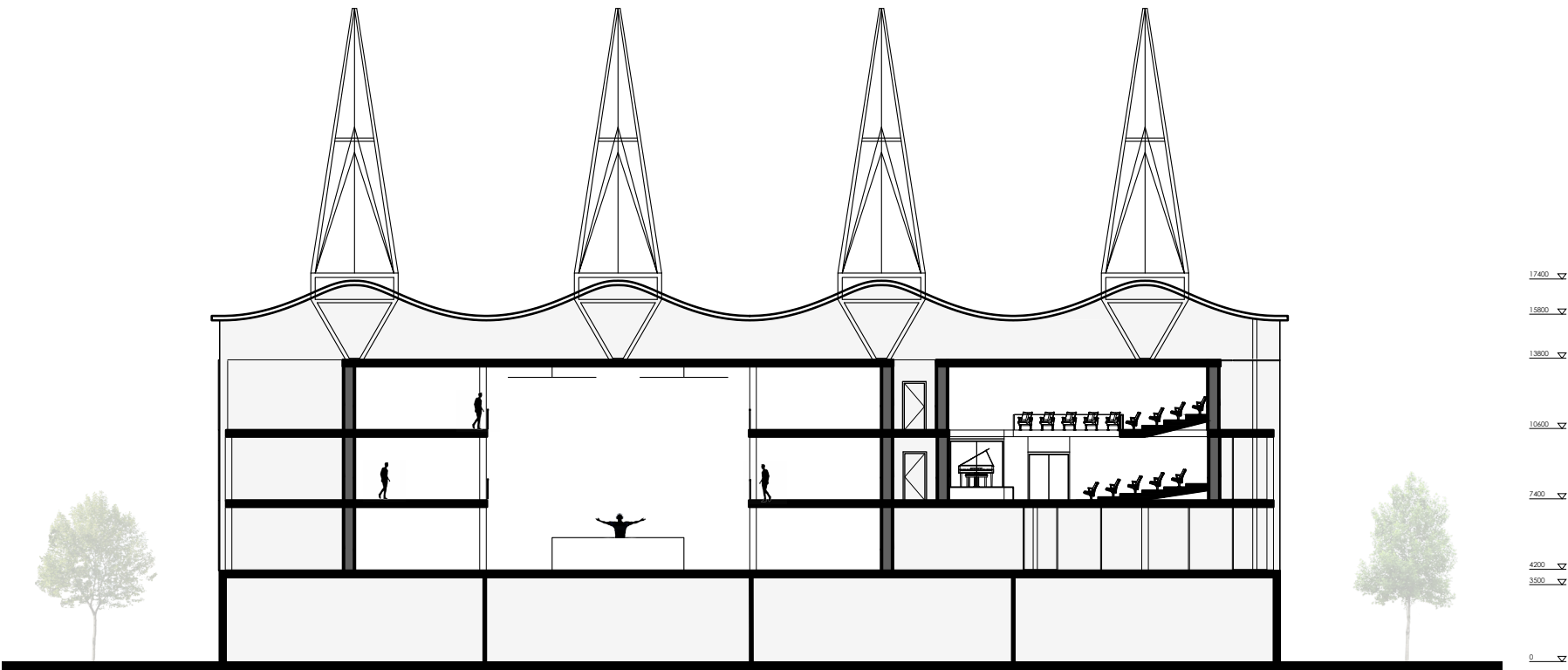
3rd Floor



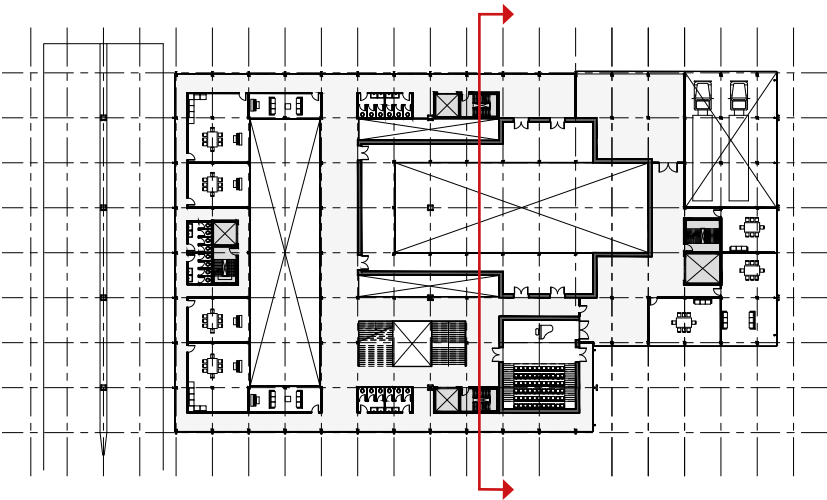
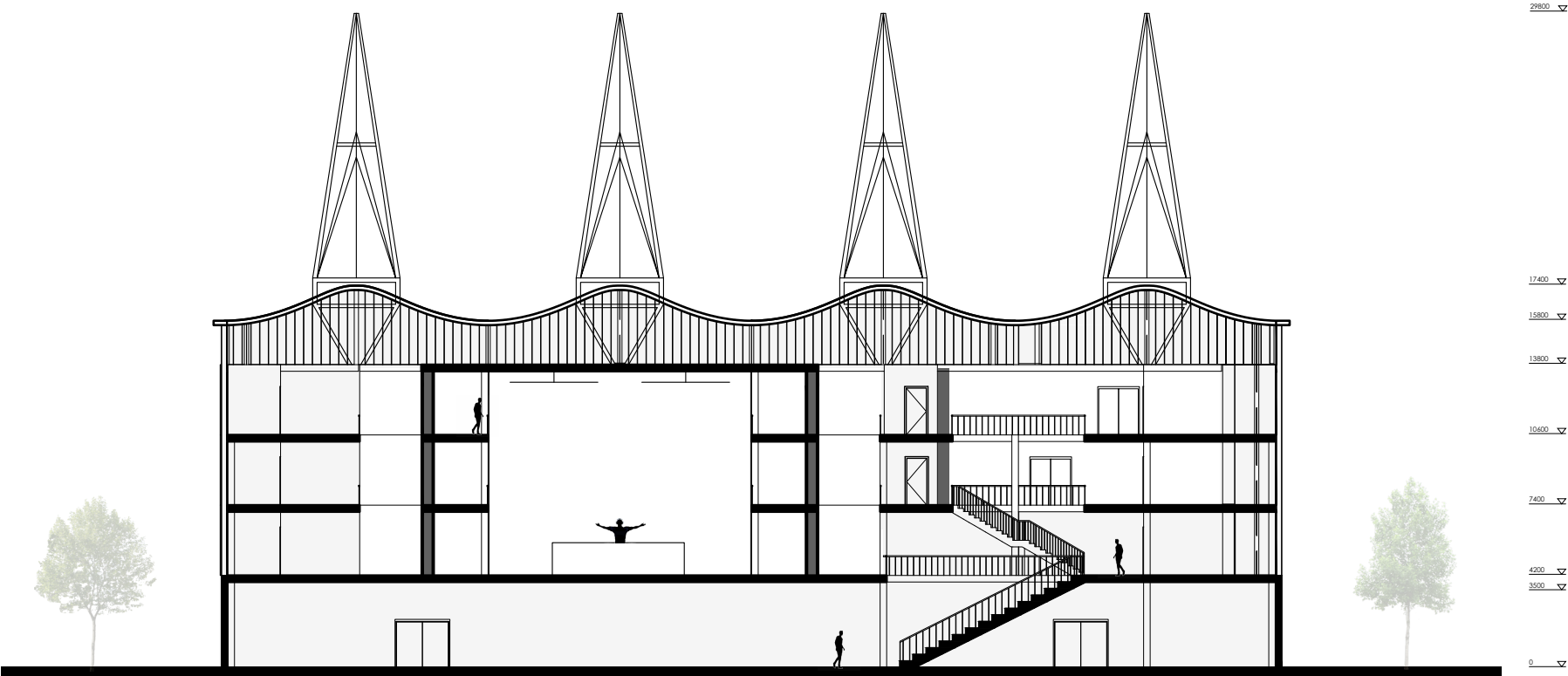
Section A



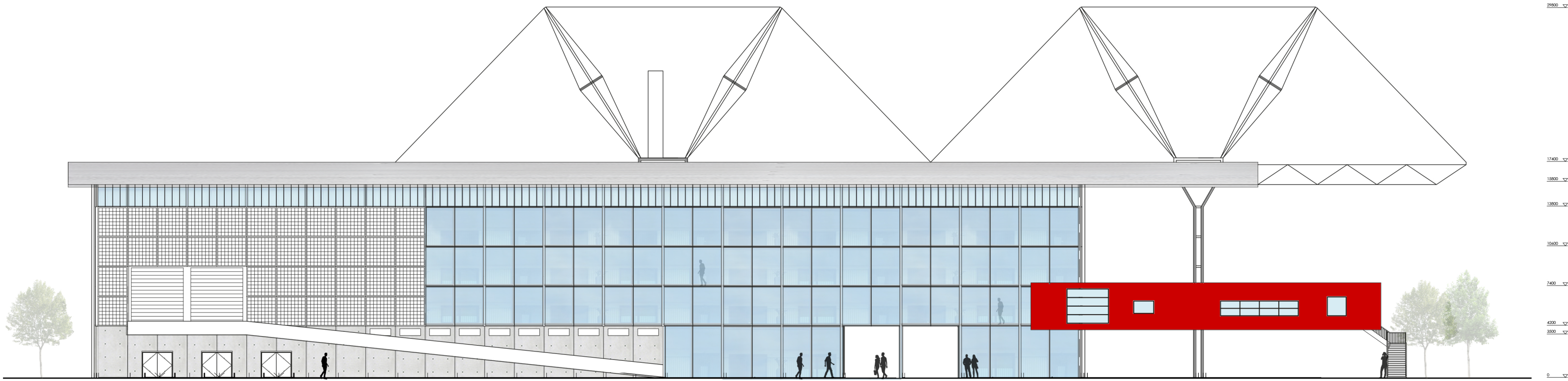
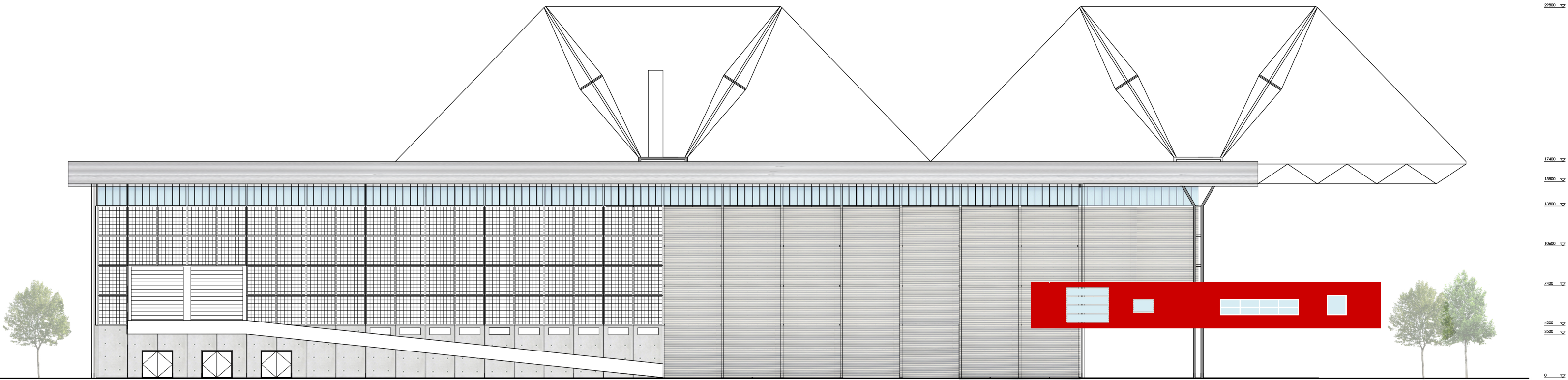
Section B



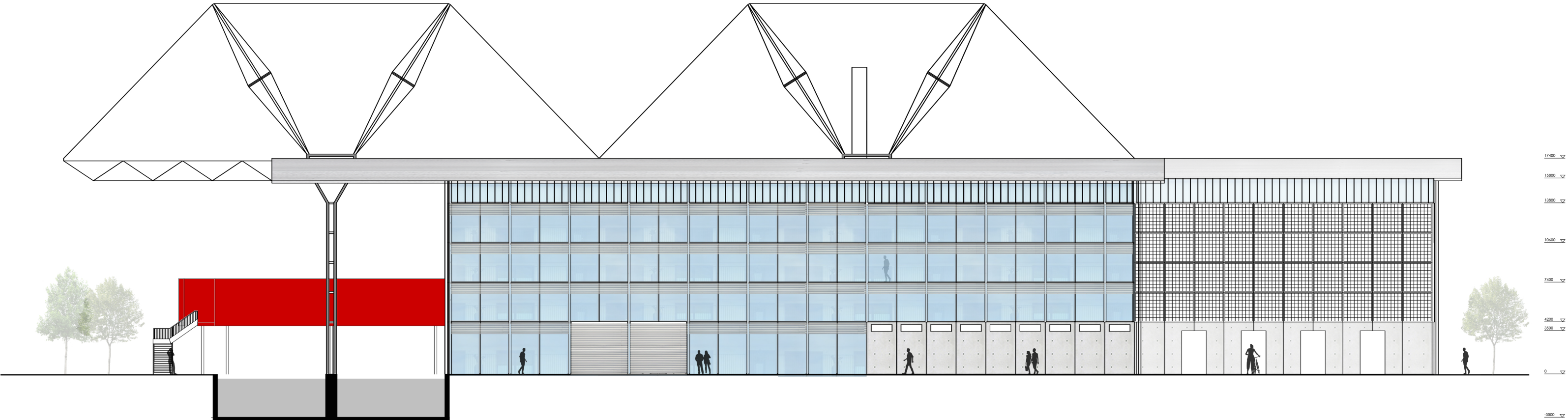
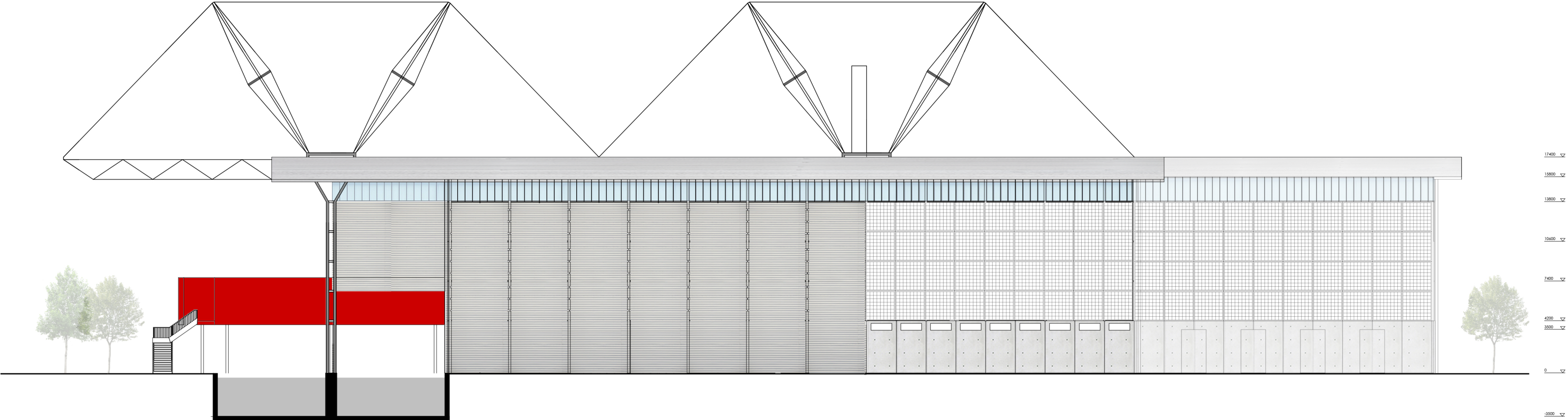
Section C



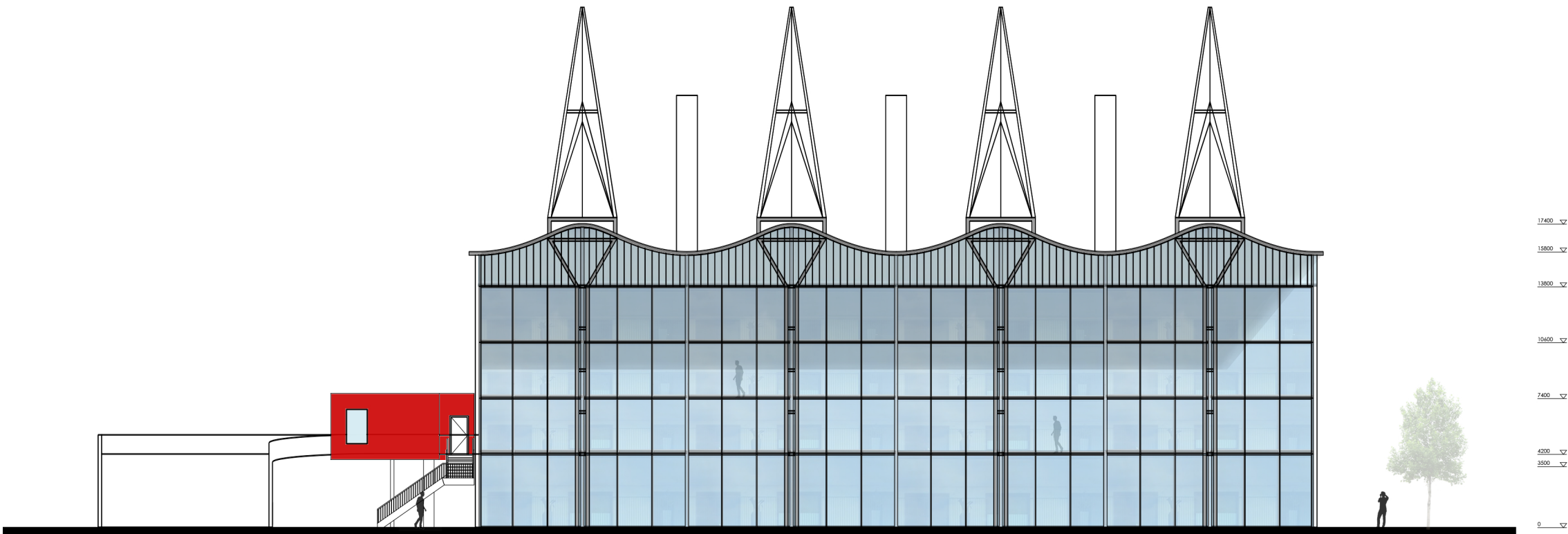
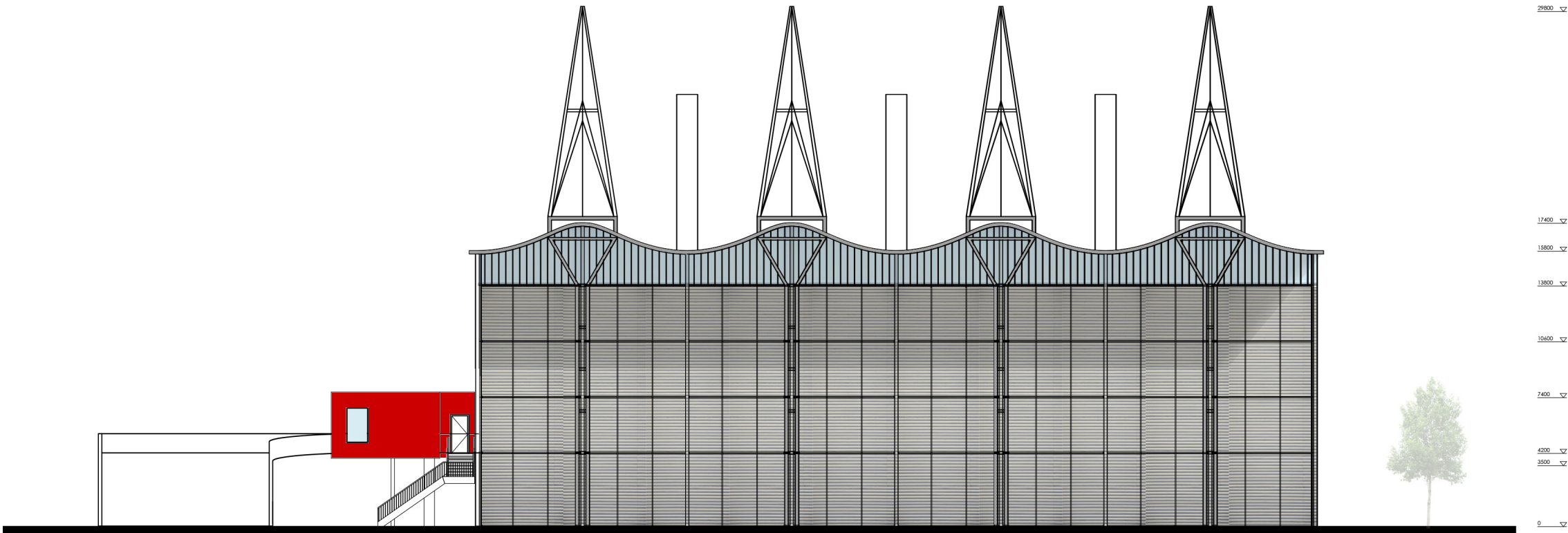
Northeast Elevation



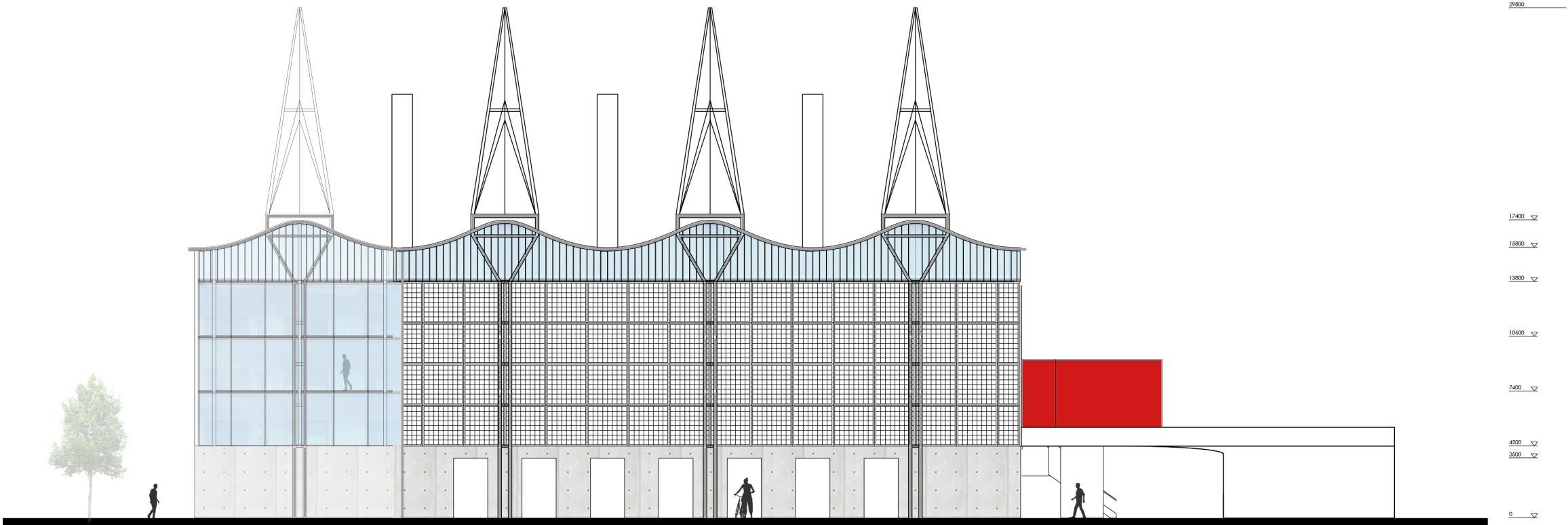
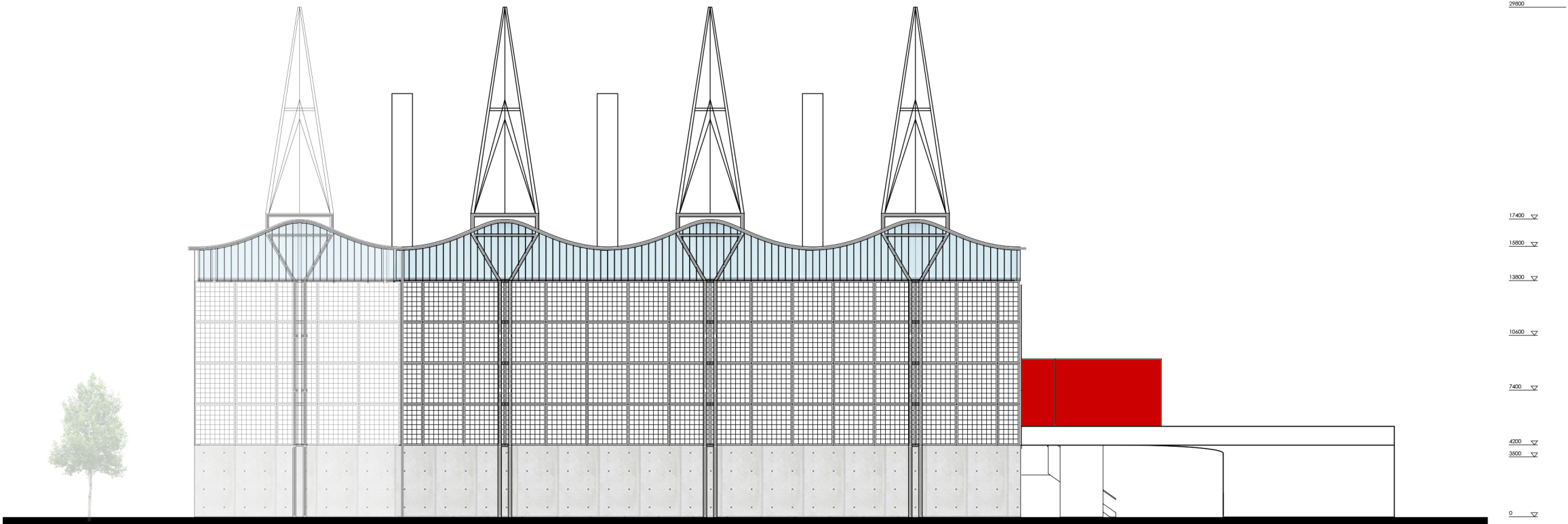
Southwest Elevation



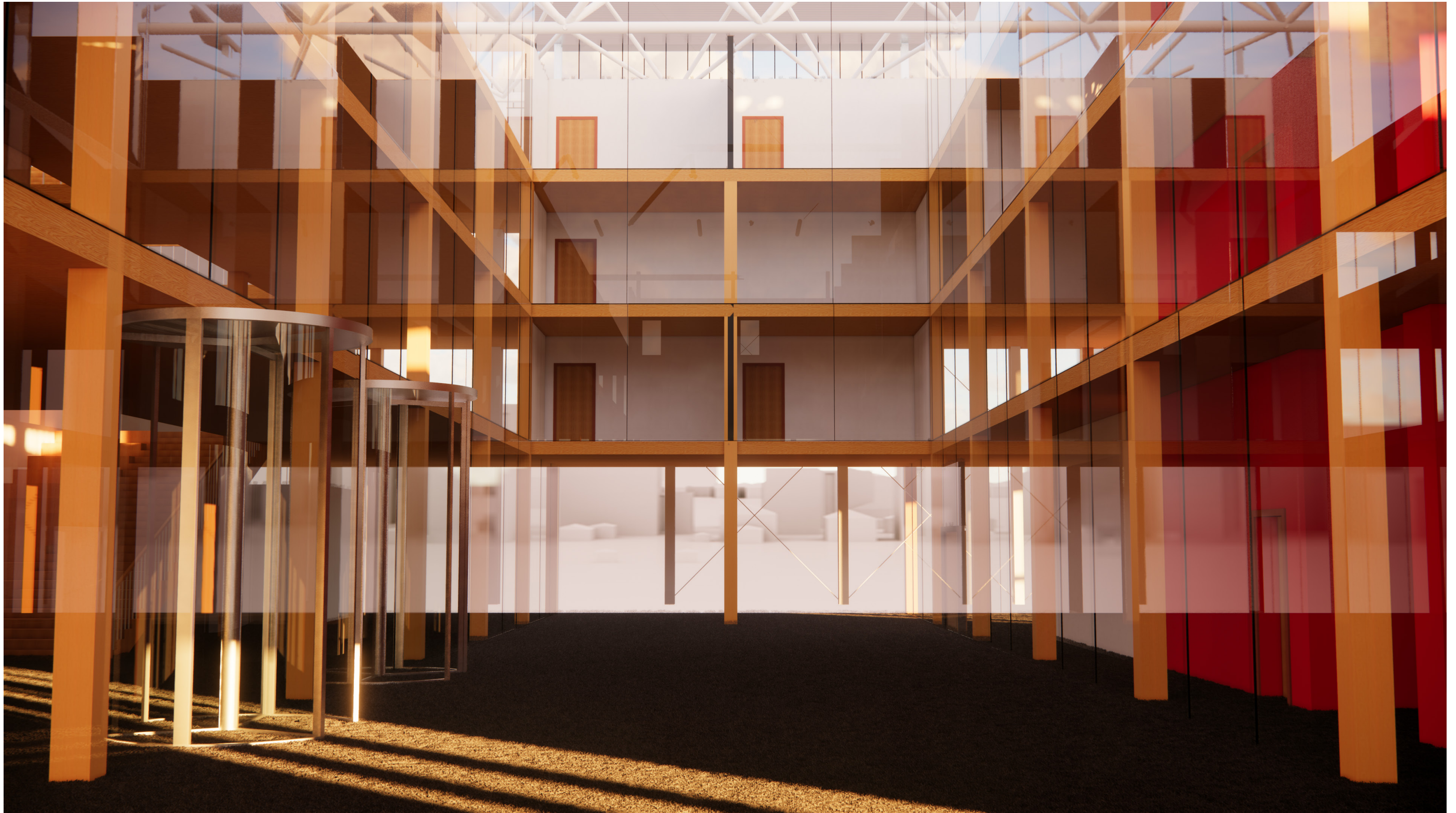
Northwest Elevation



Southeast Elevation



Impression | Atrium



Impression | Foyer



Impression | Route

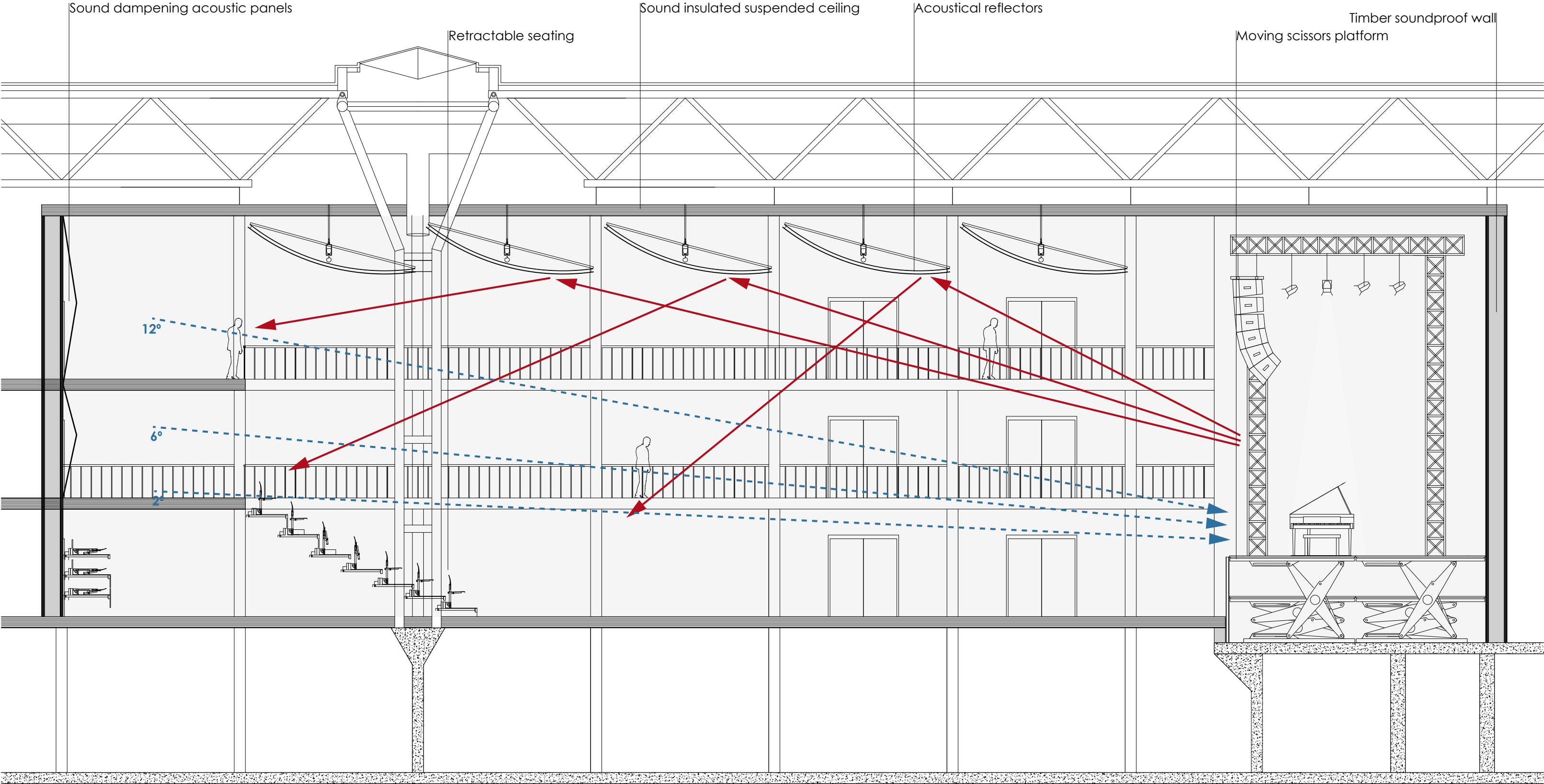


Impression | Kathedraal hall

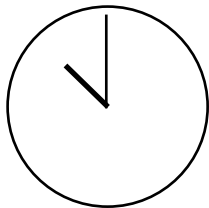
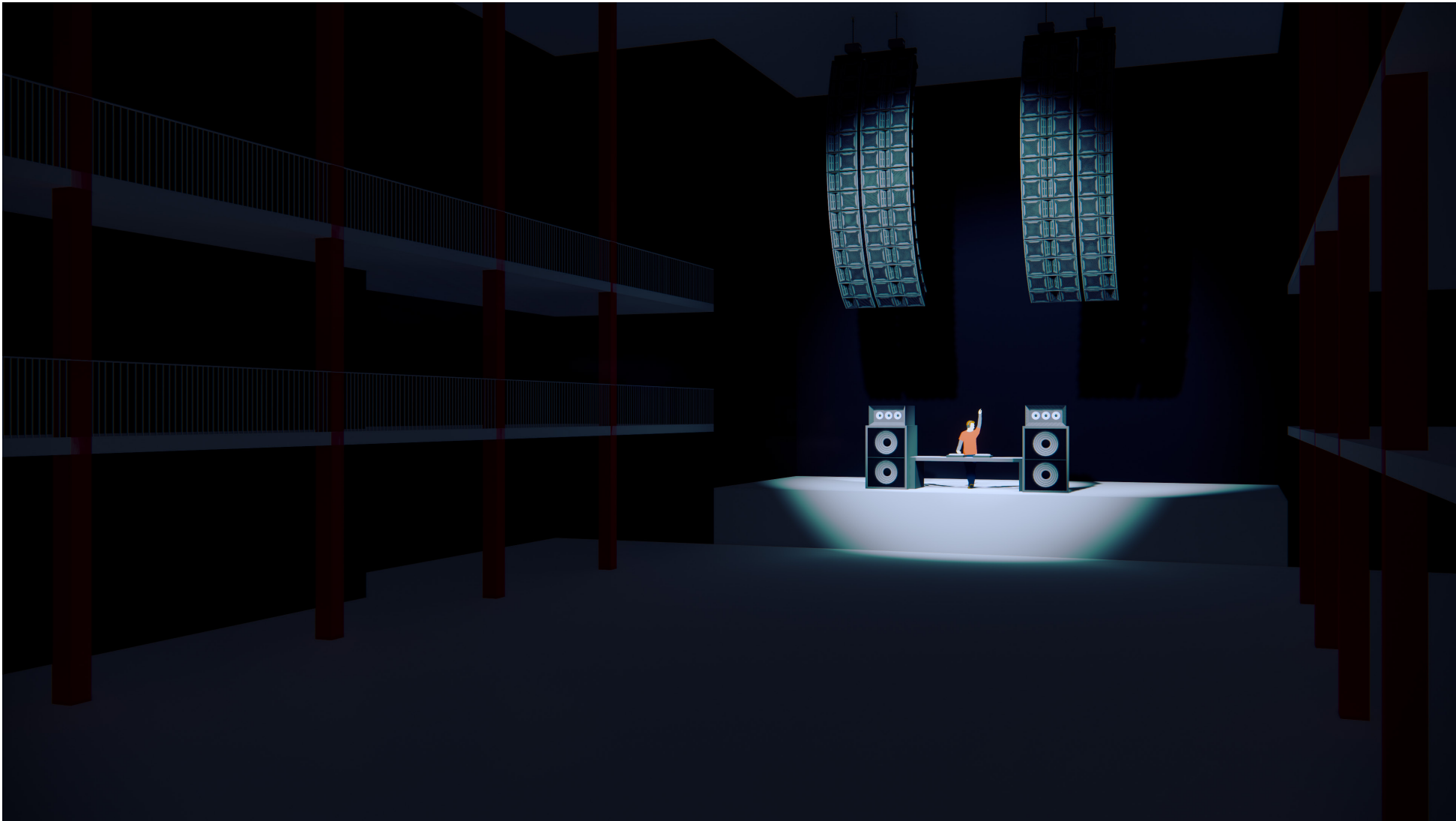
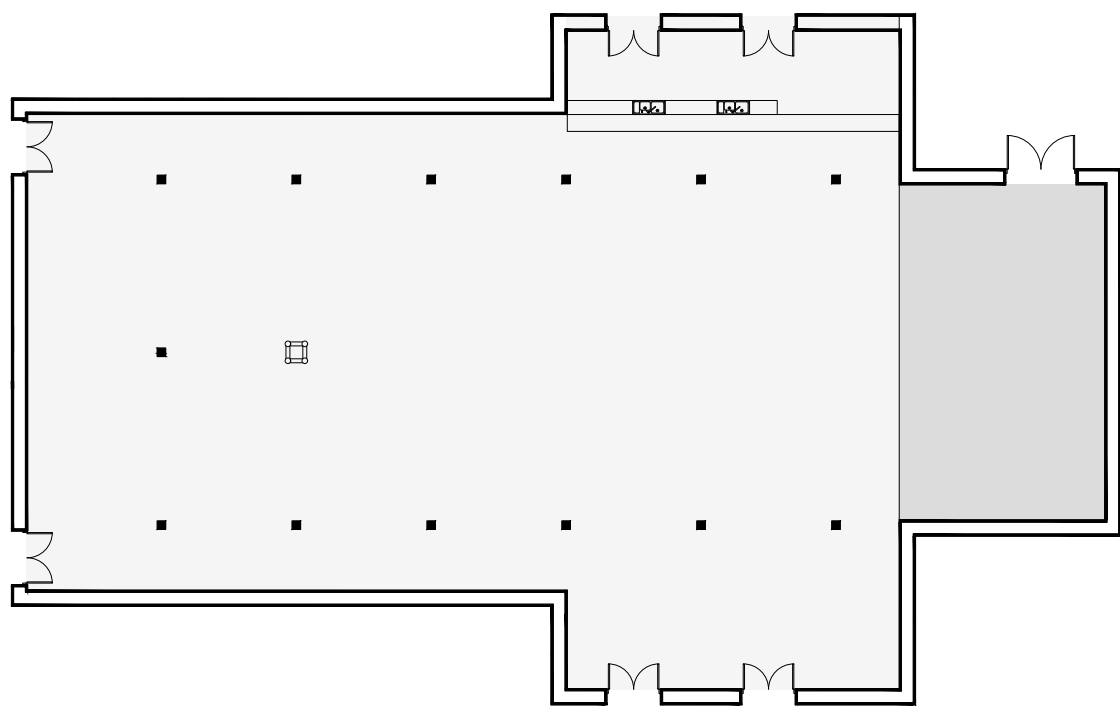


Design
Building Technology

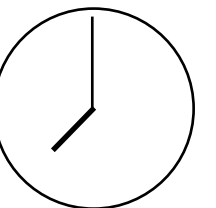
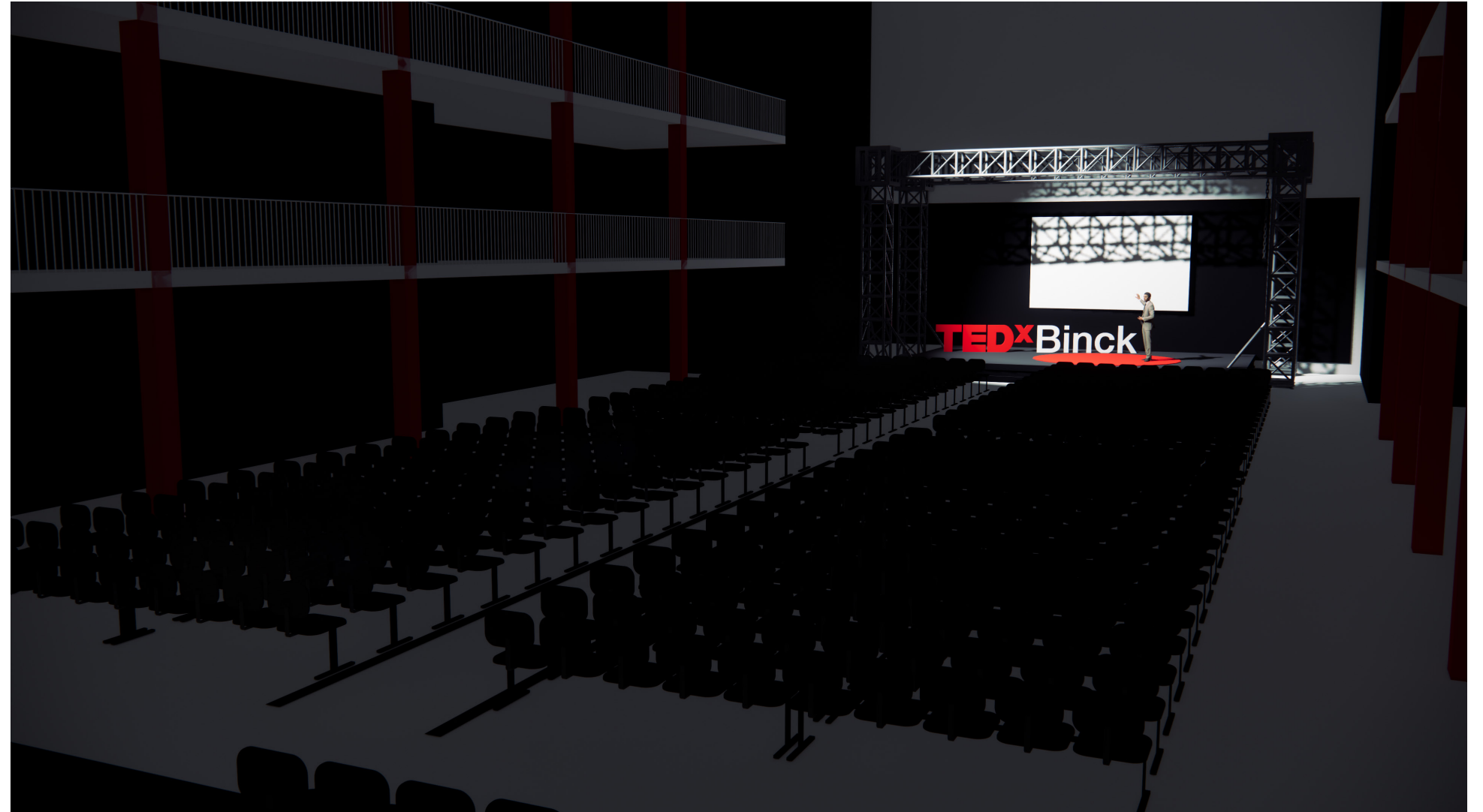
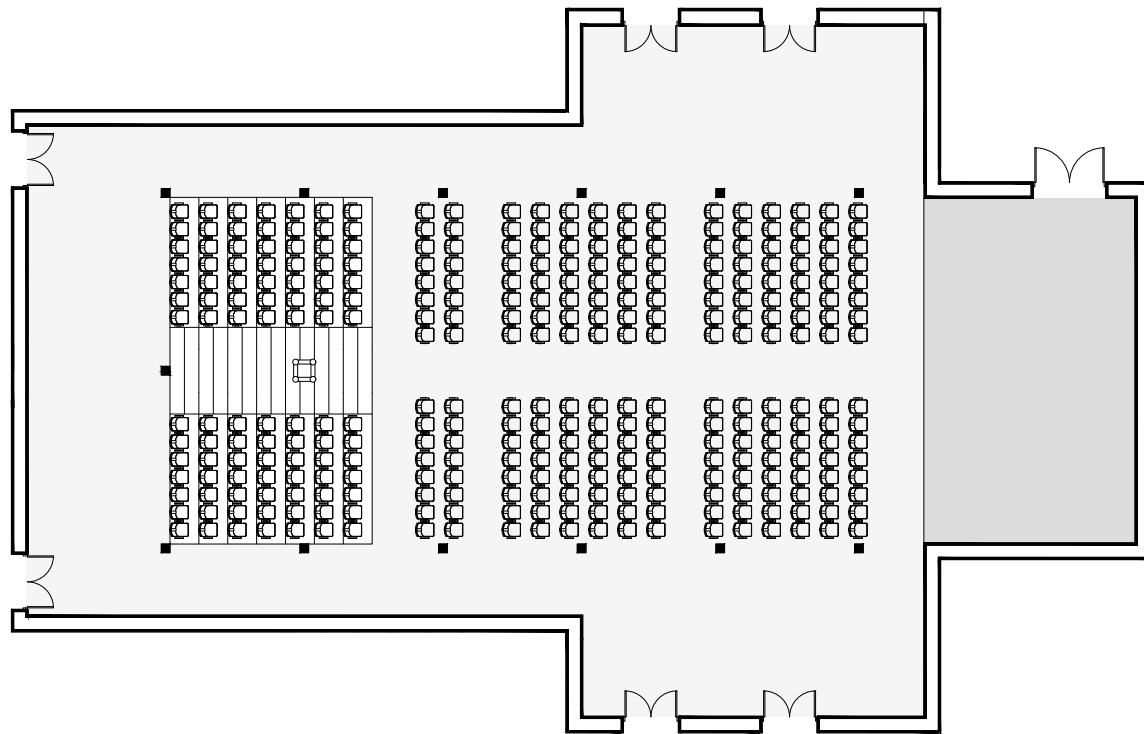
Acoustic Performance/Elements Reconfiguration



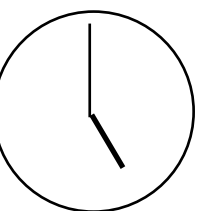
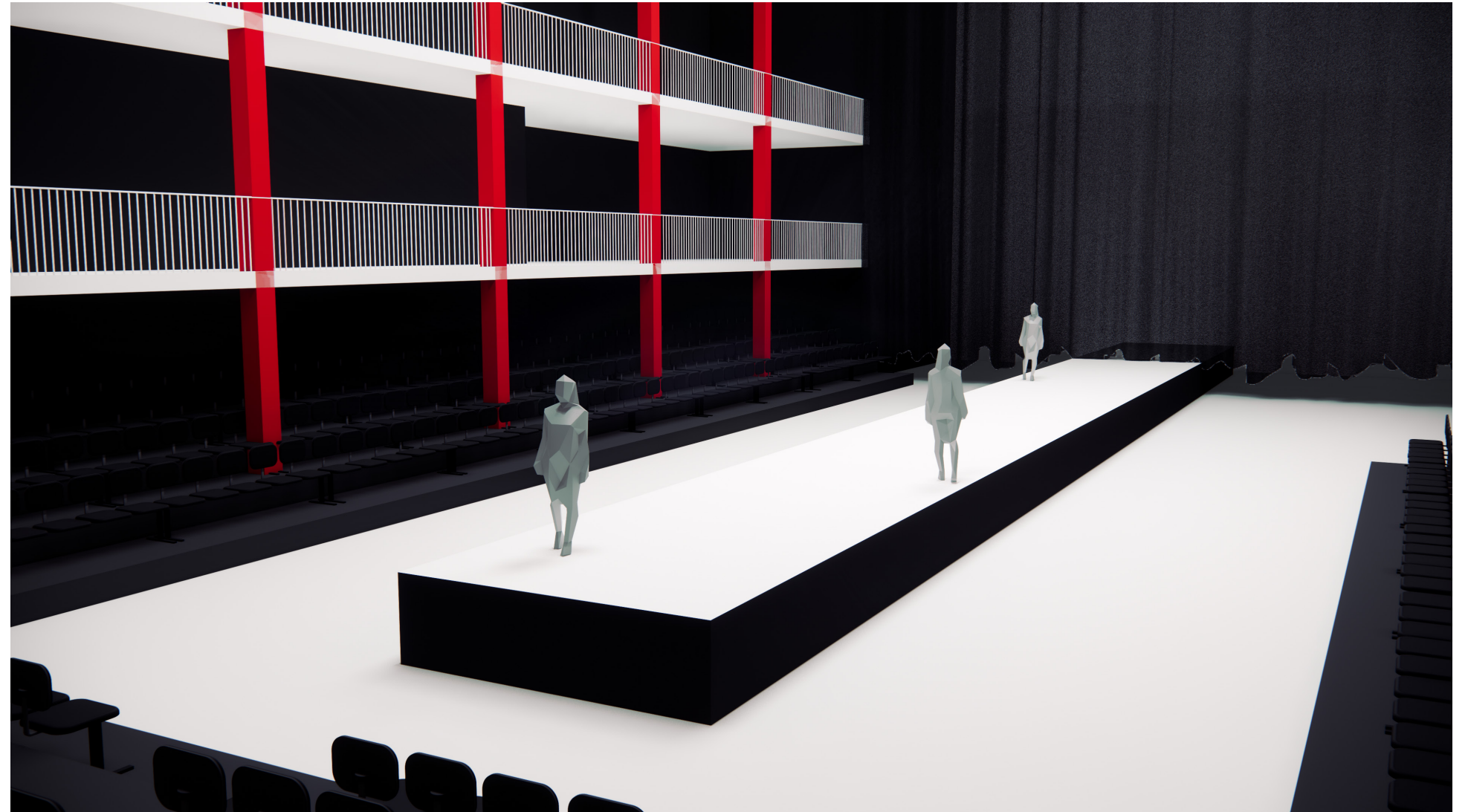
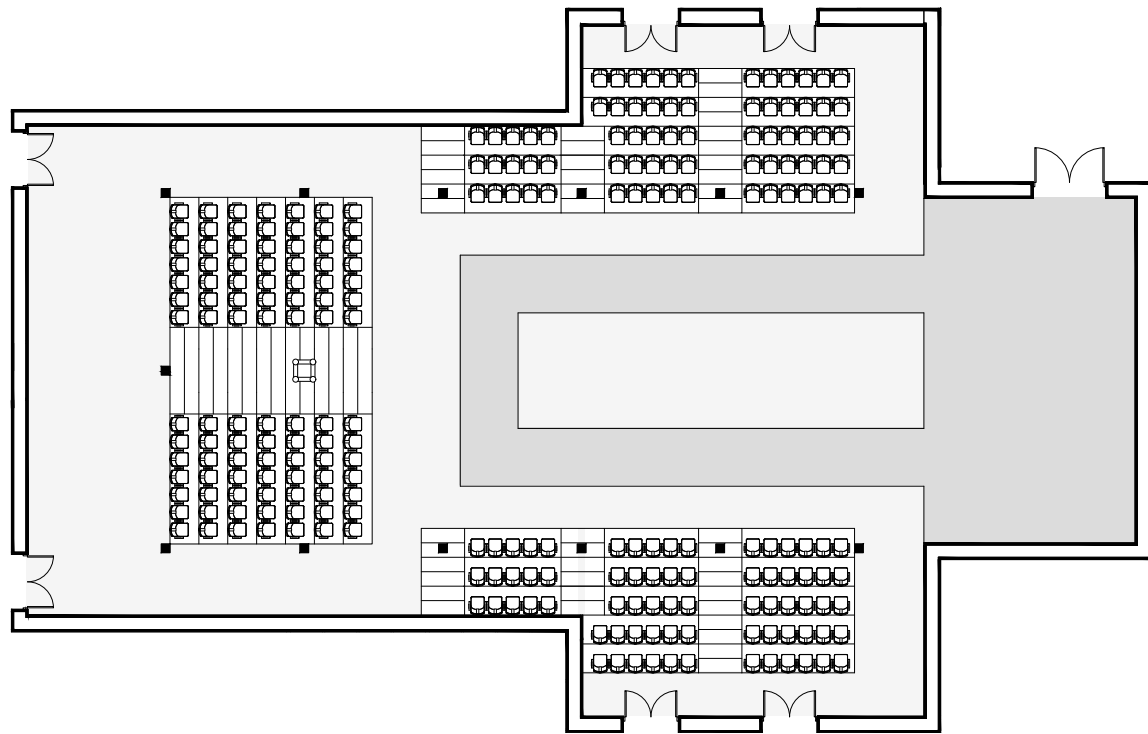
Kathedraal Hall | Configuration 1



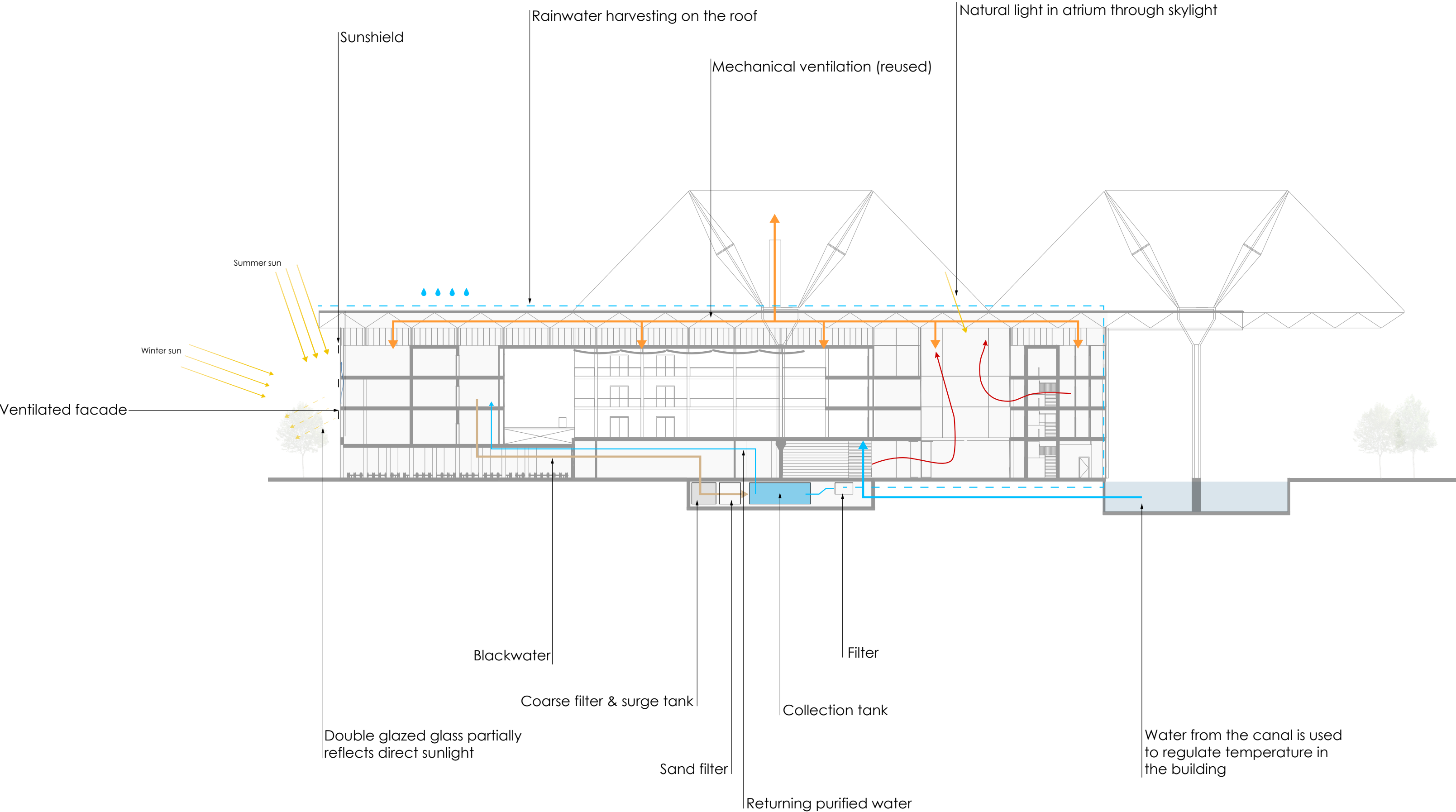
Kathedraal Hall | Configuration 2



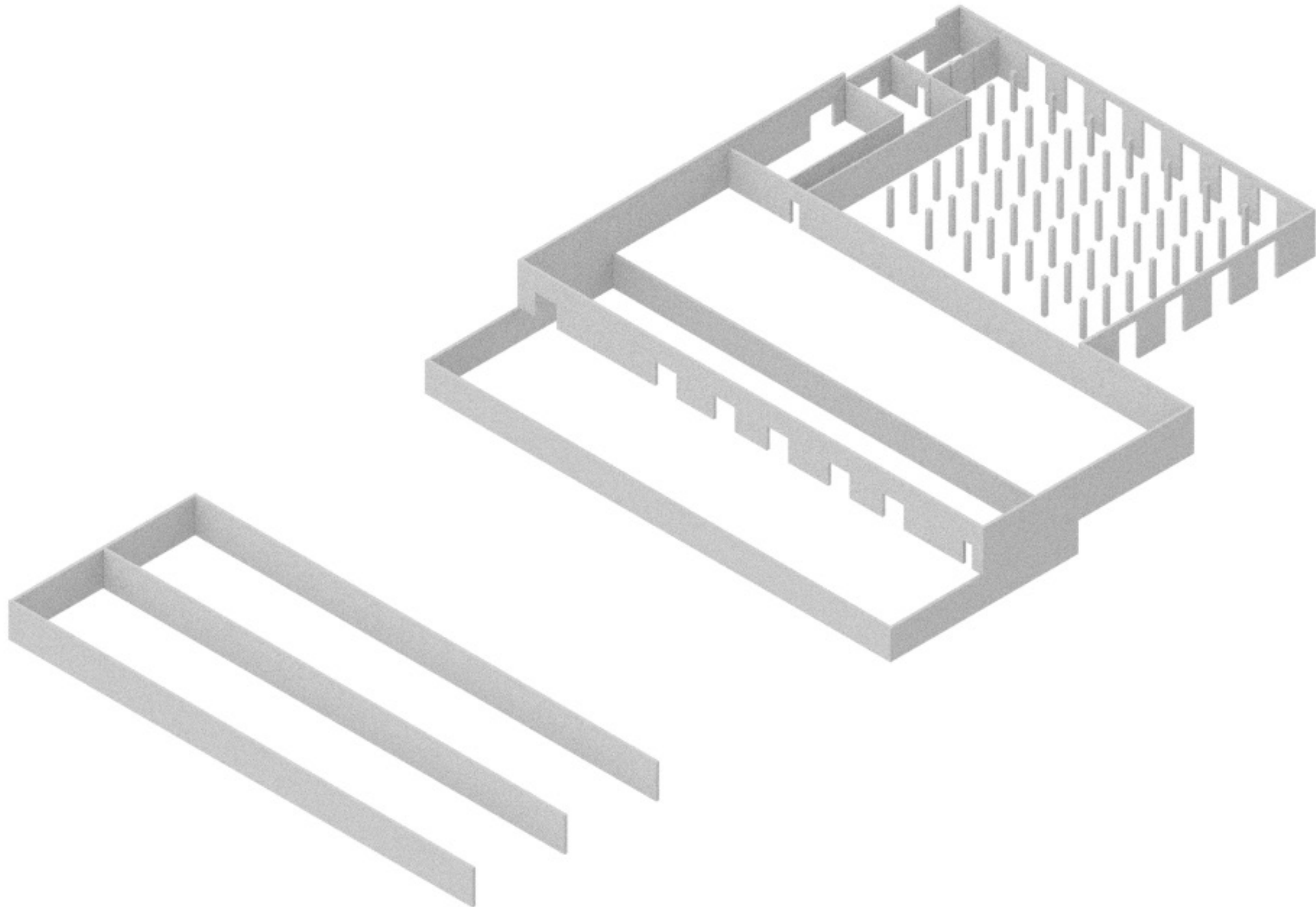
Kathedraal Hall | Configuration 3

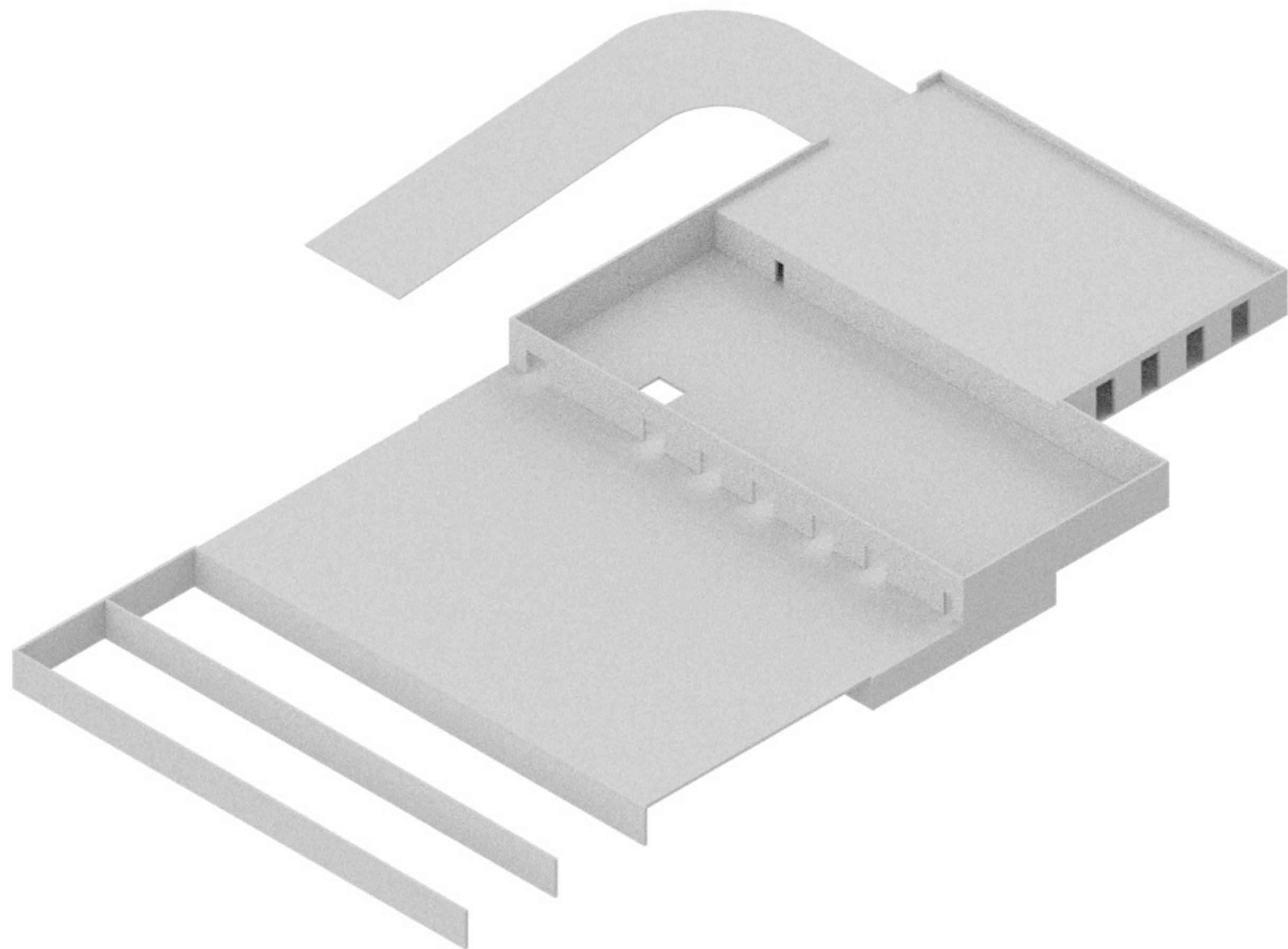


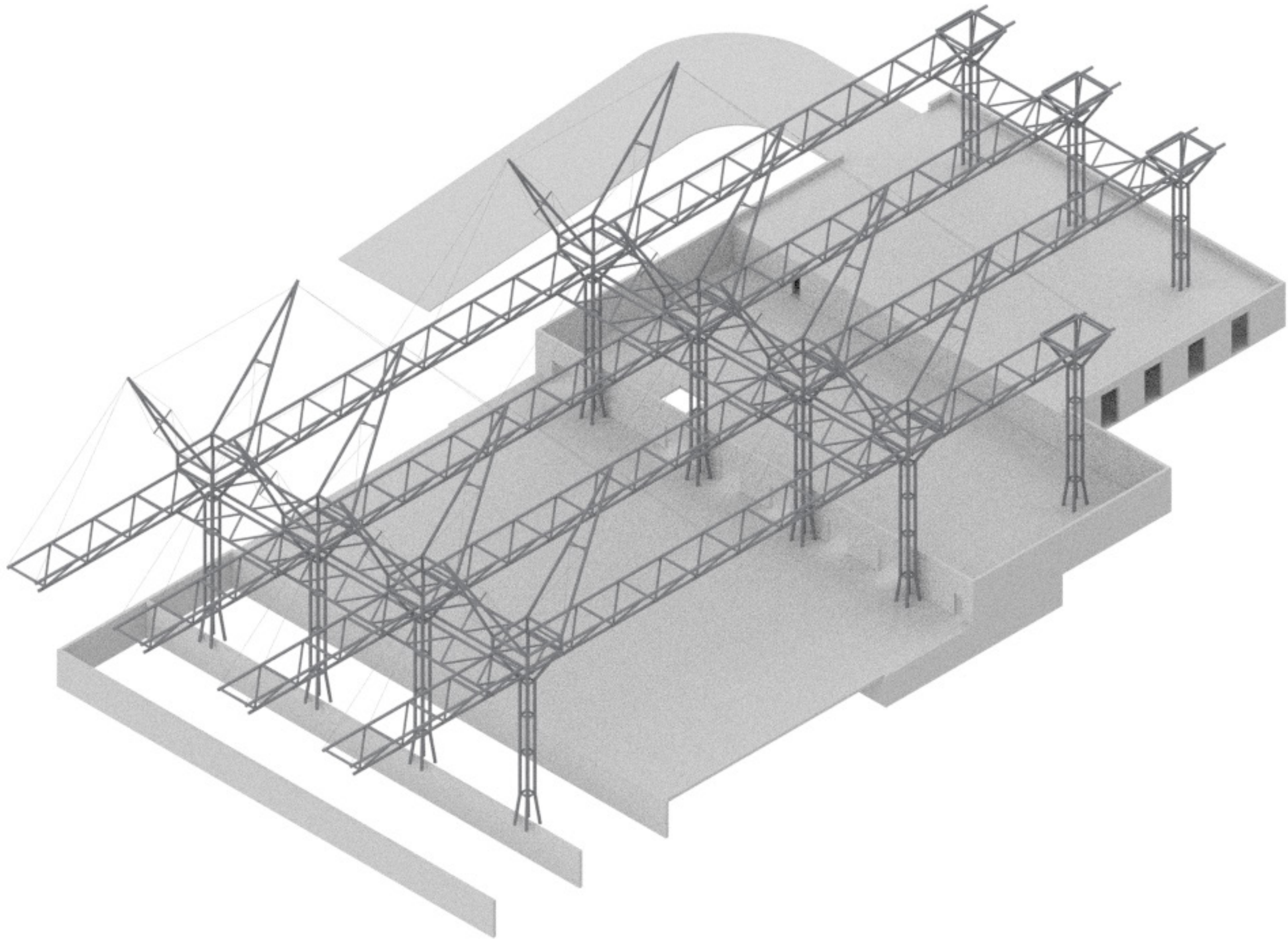
Building Physics

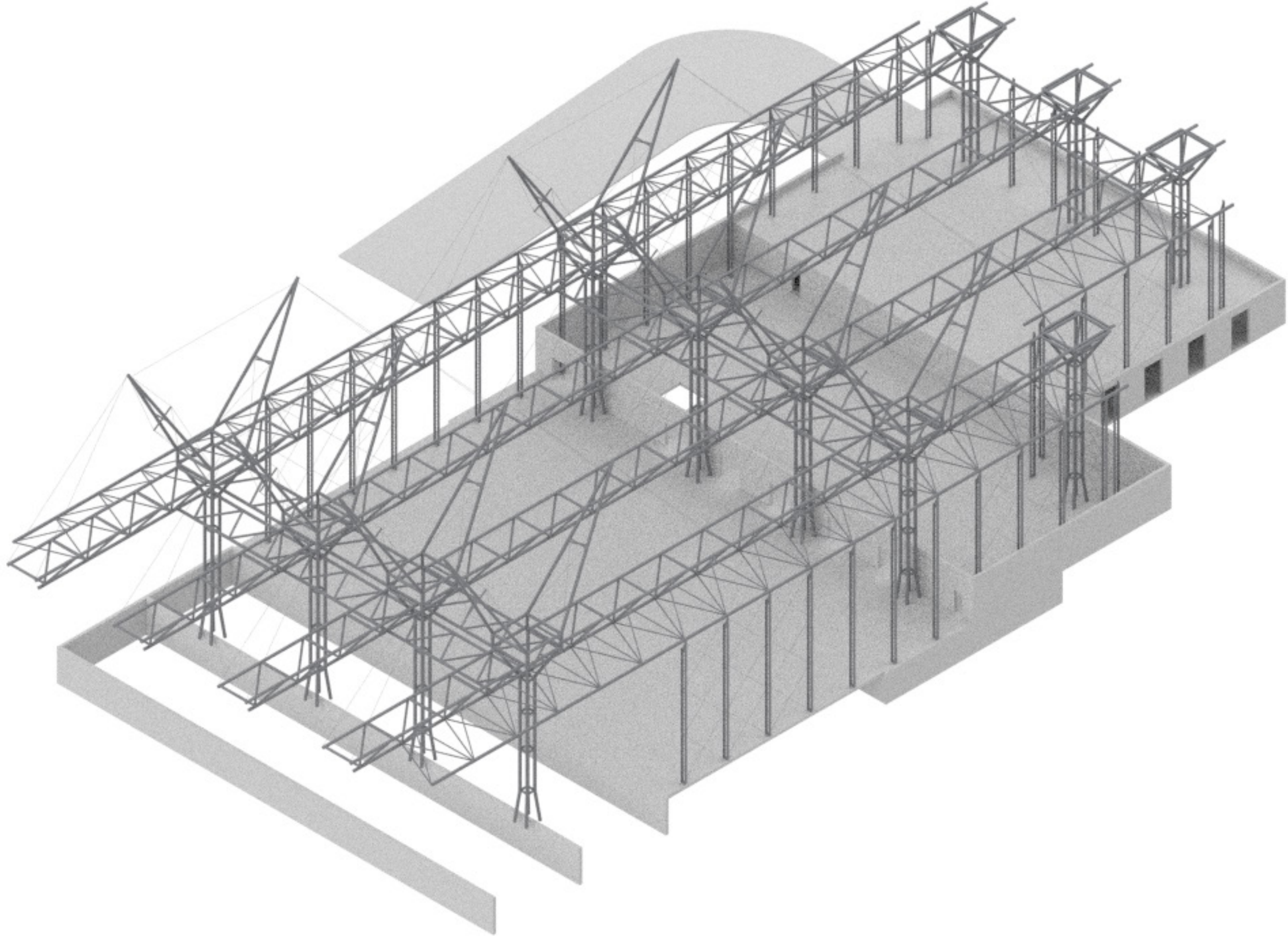


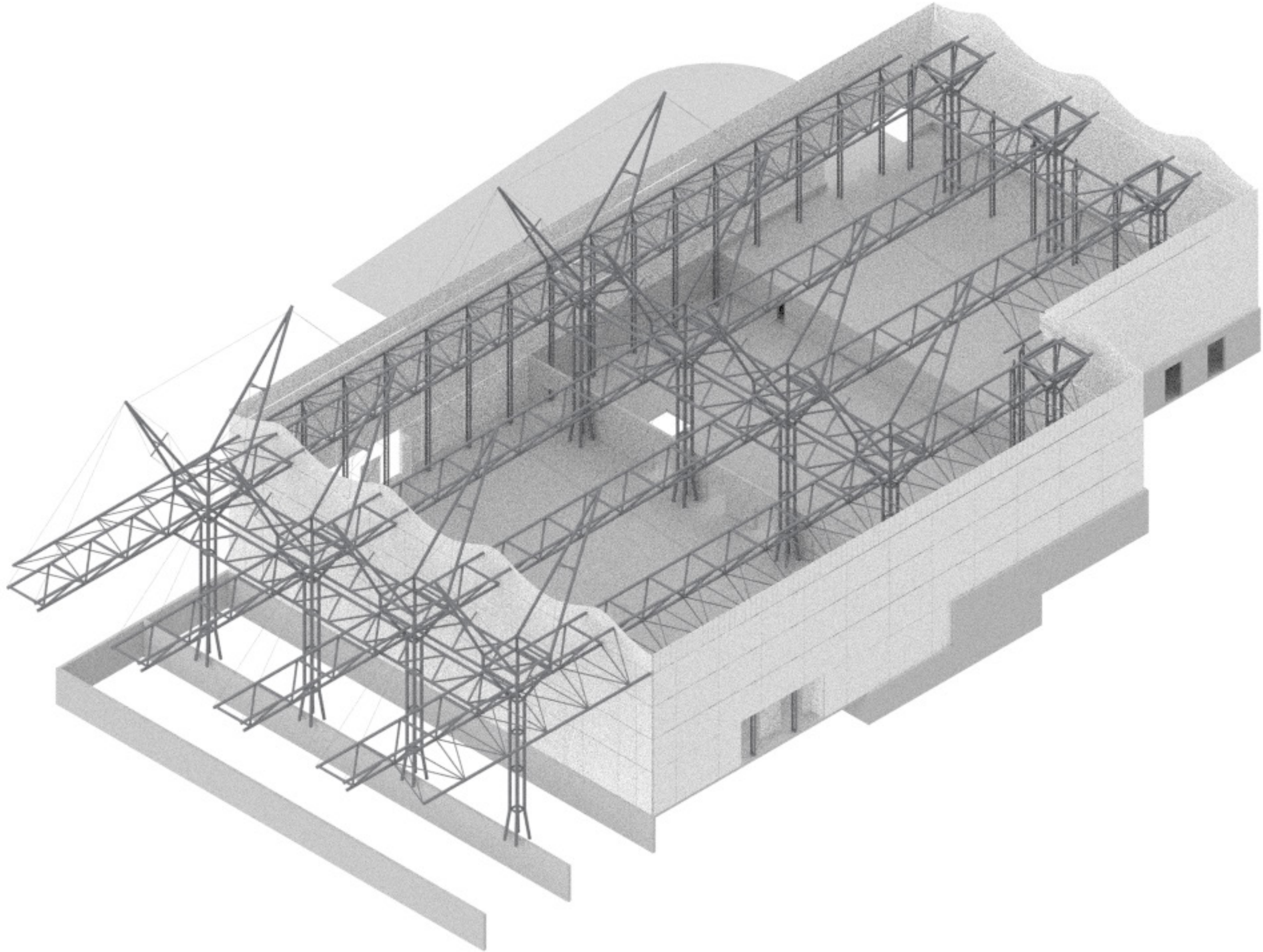
Construction Timeline

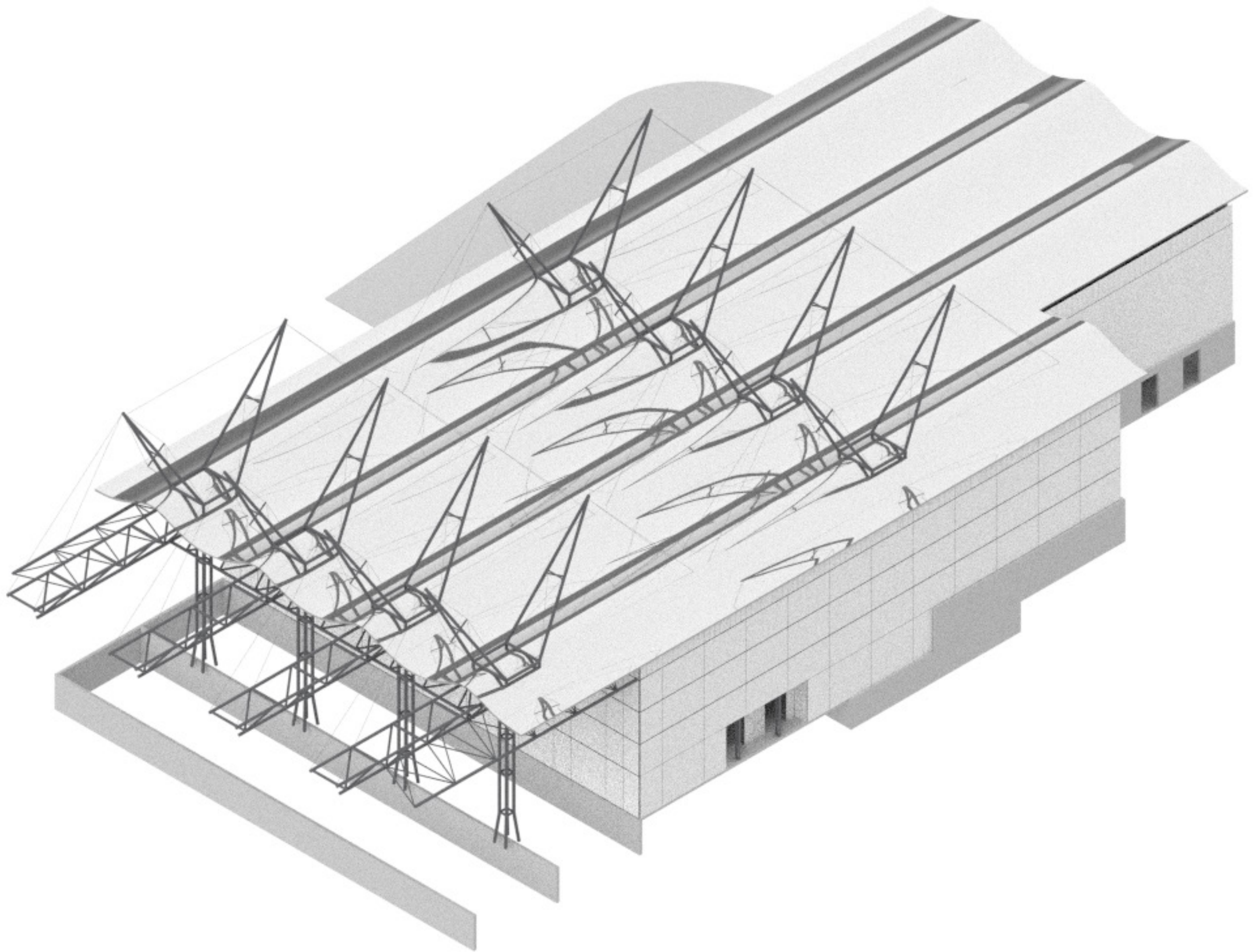


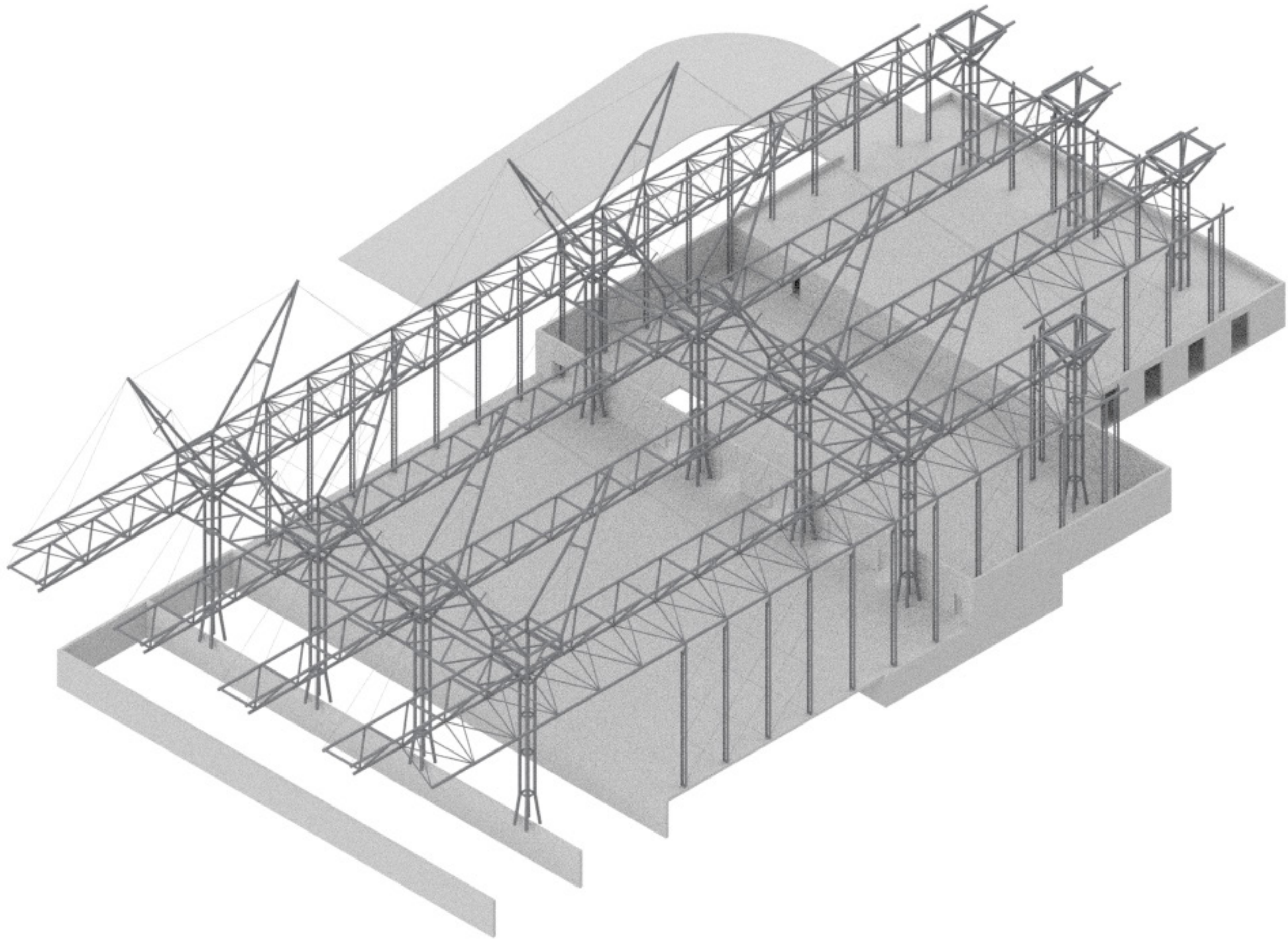


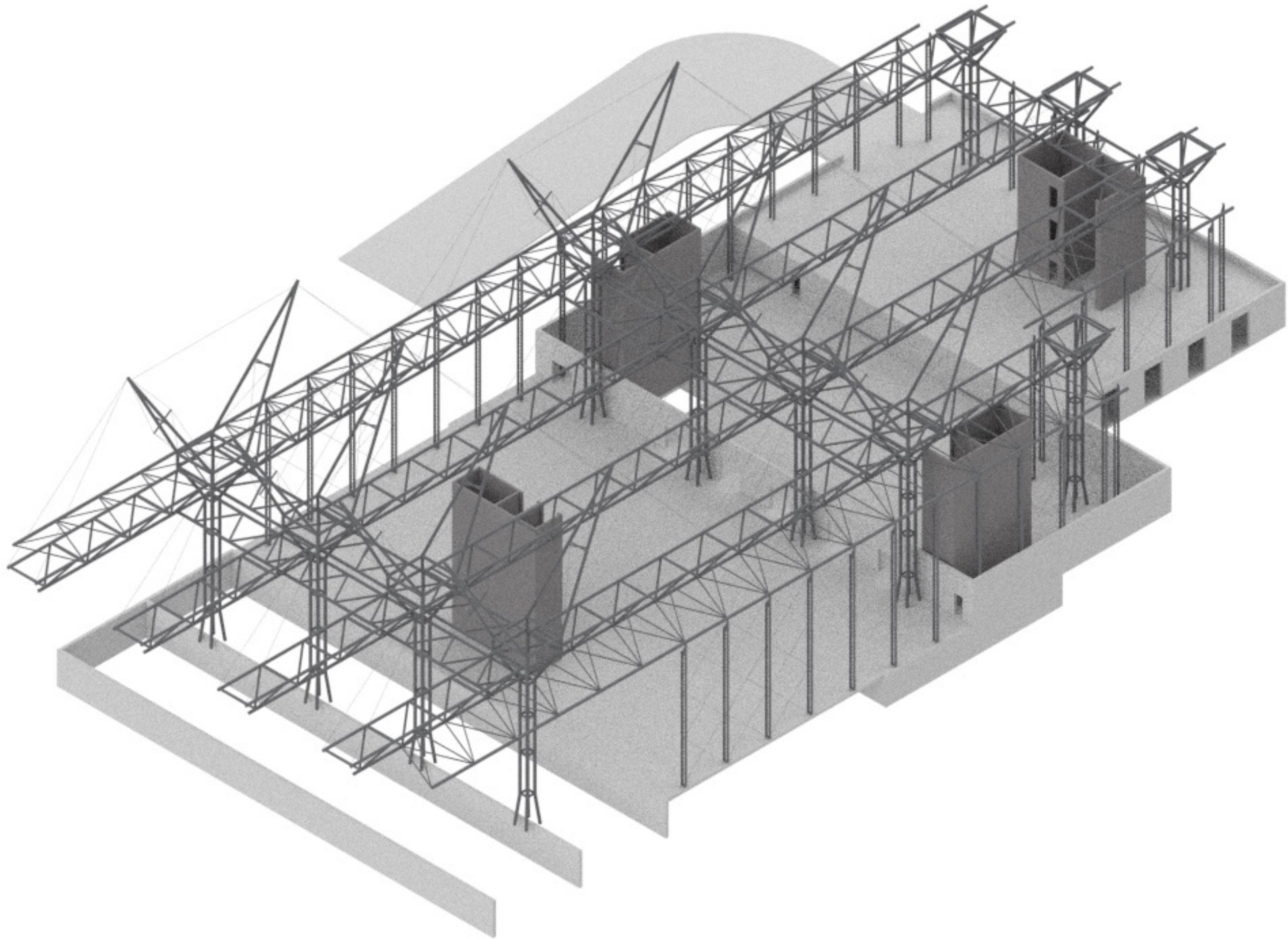


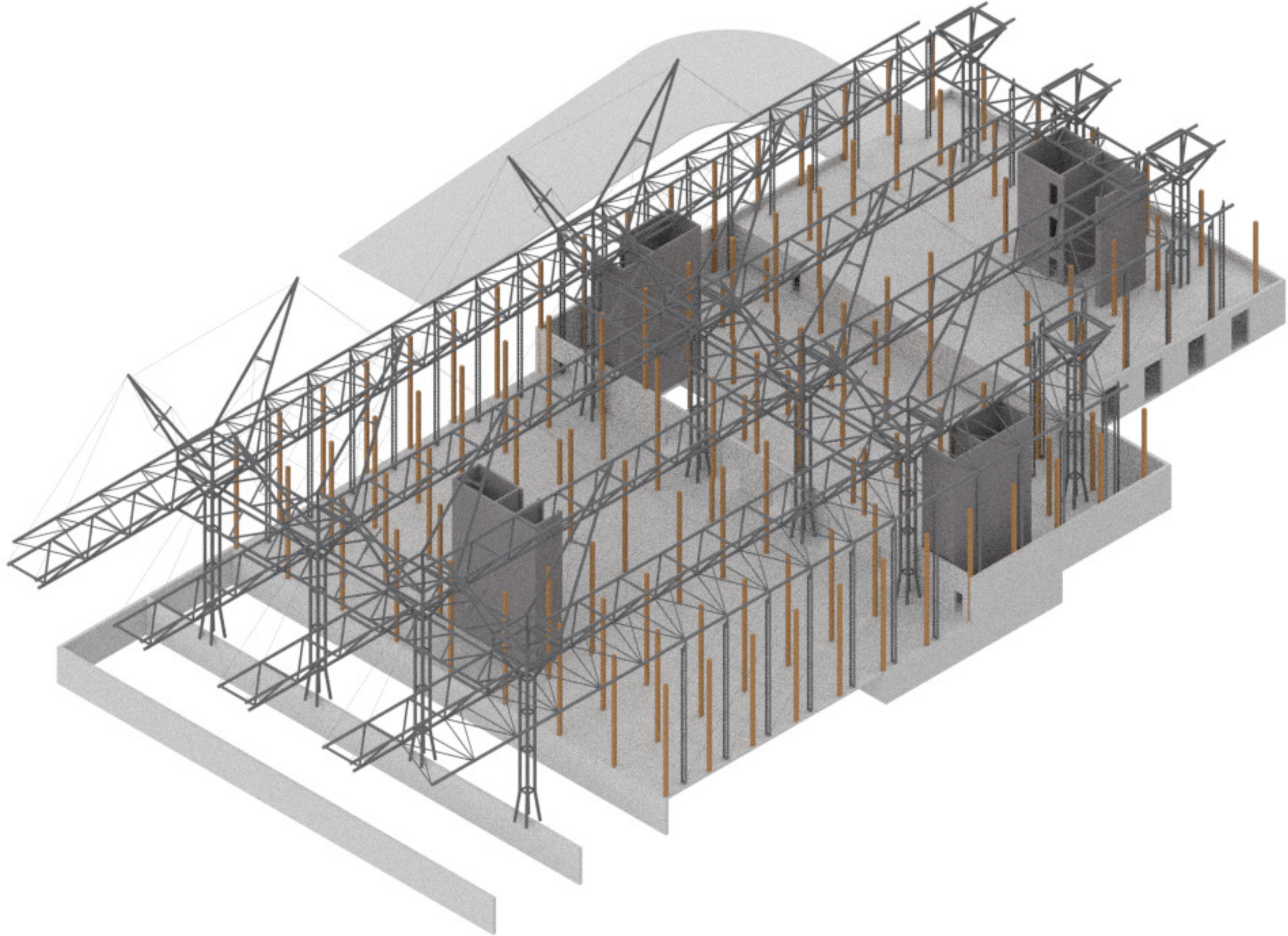


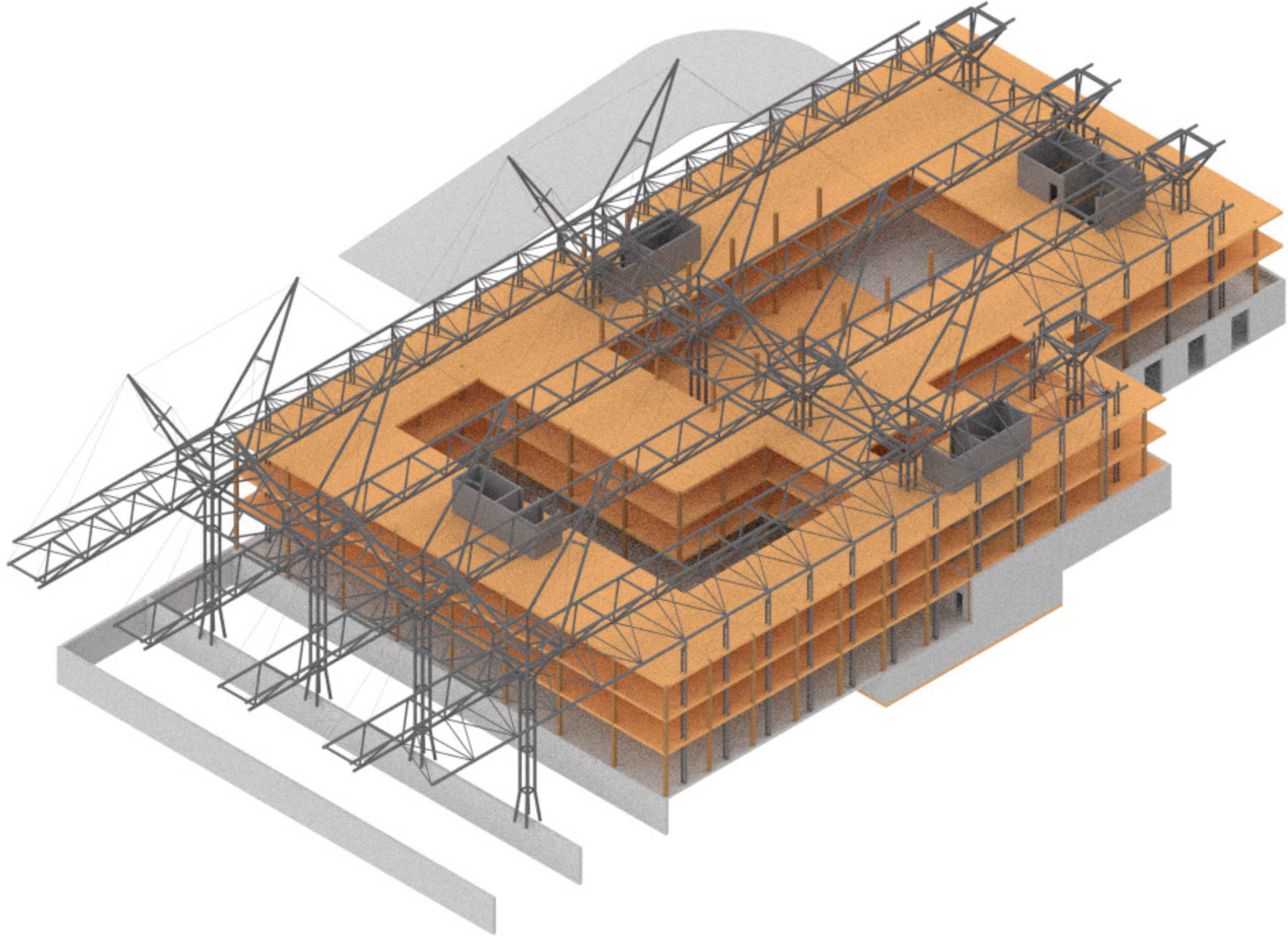


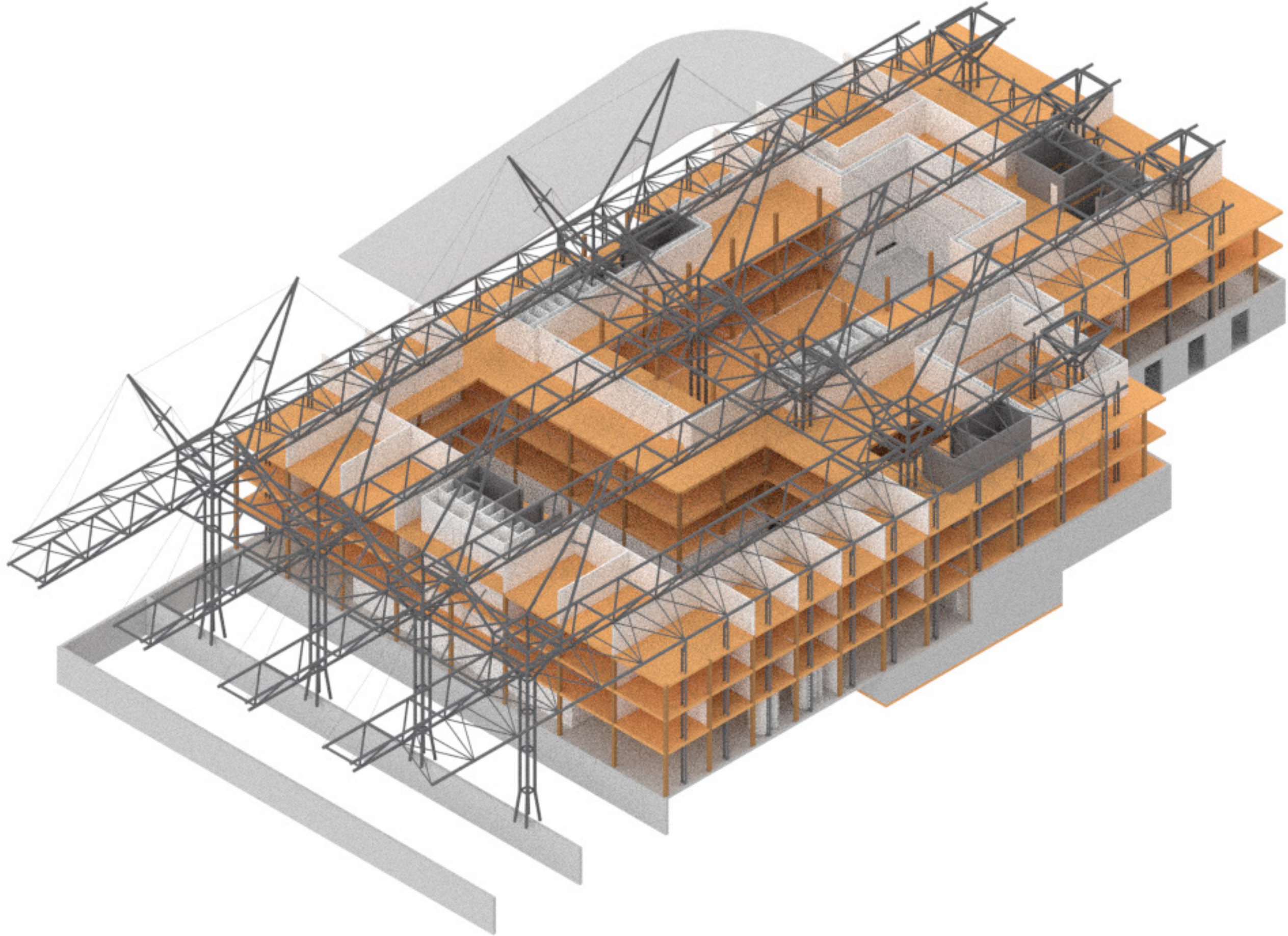


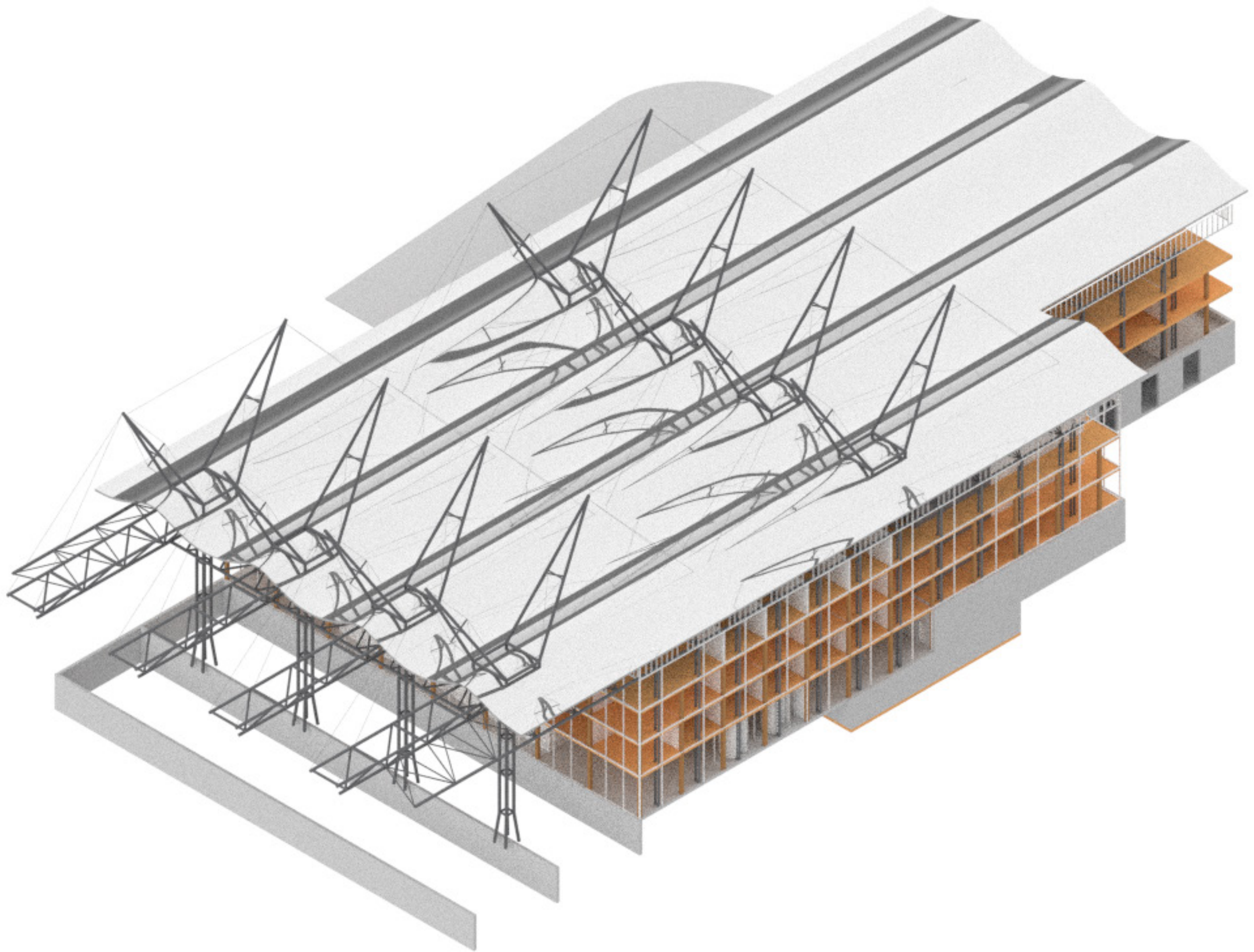






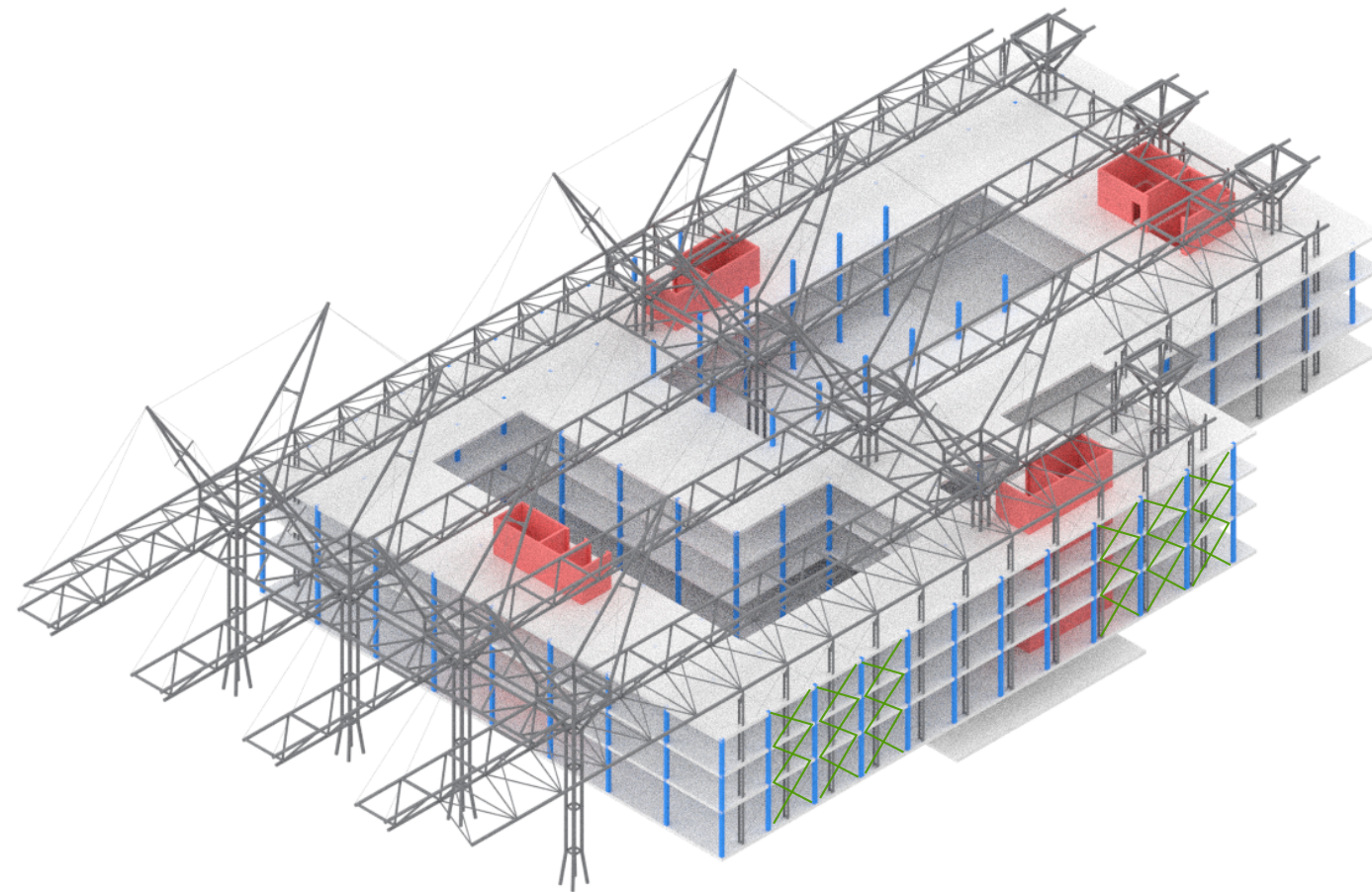
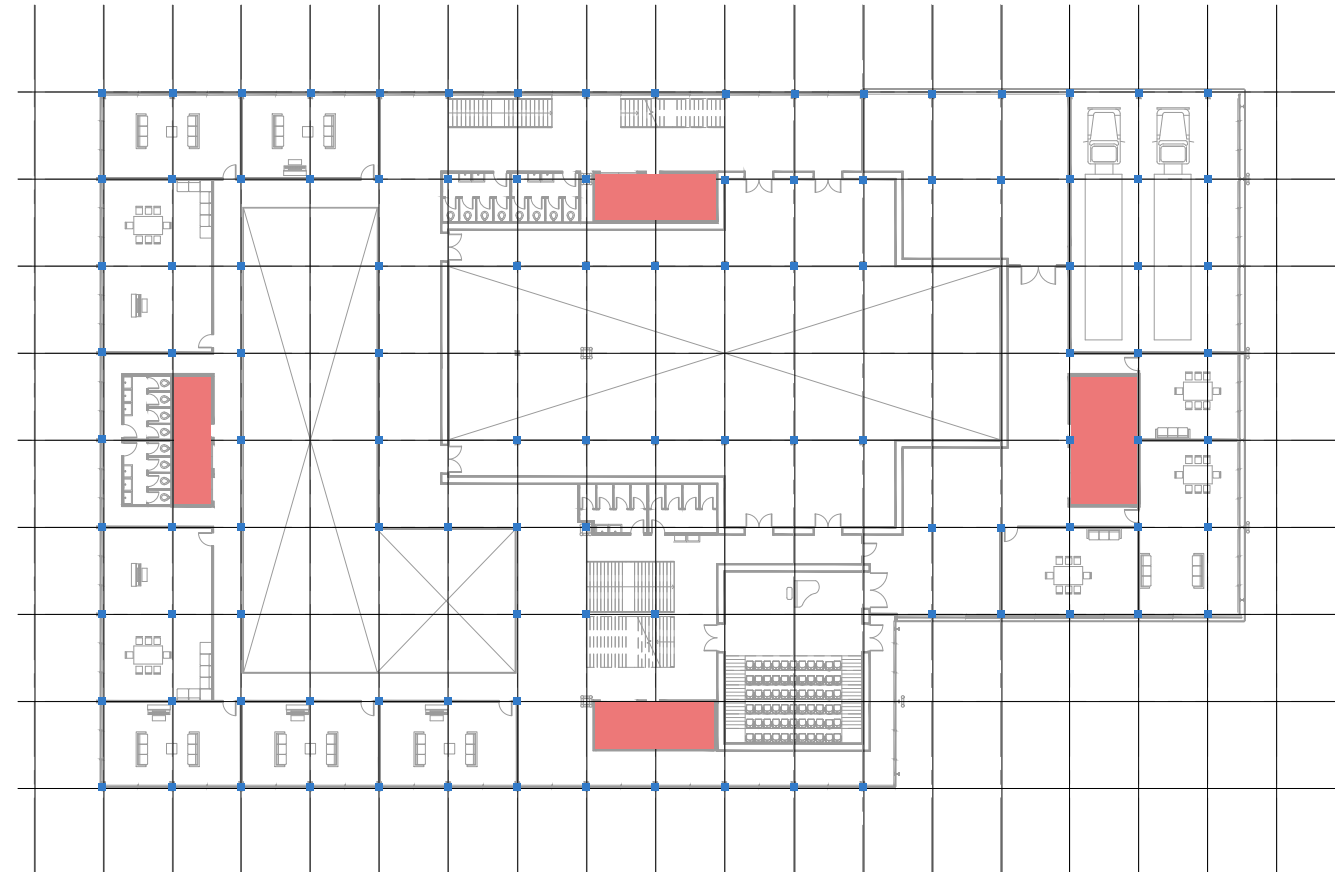




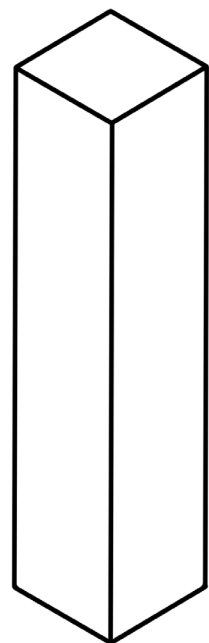


Structural grid & Stability

- Timber column
- Concrete core
- Steel wind bracing
- Grid 4800x6000

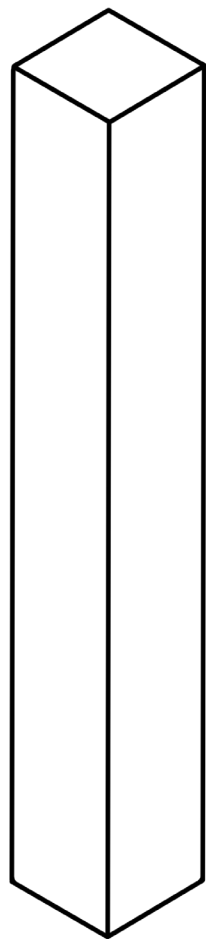


Building Components



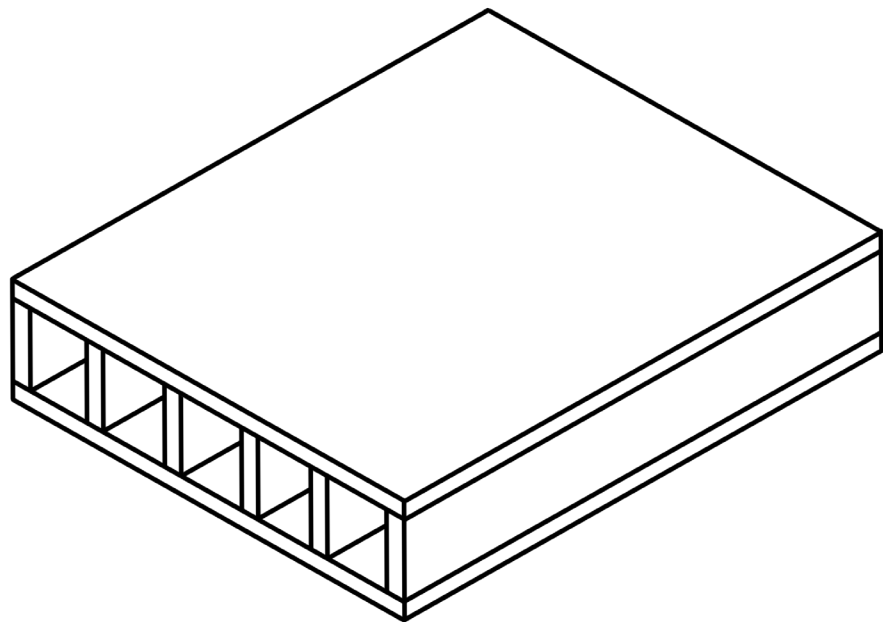
Glulam columns
(300x300x2900)

203x



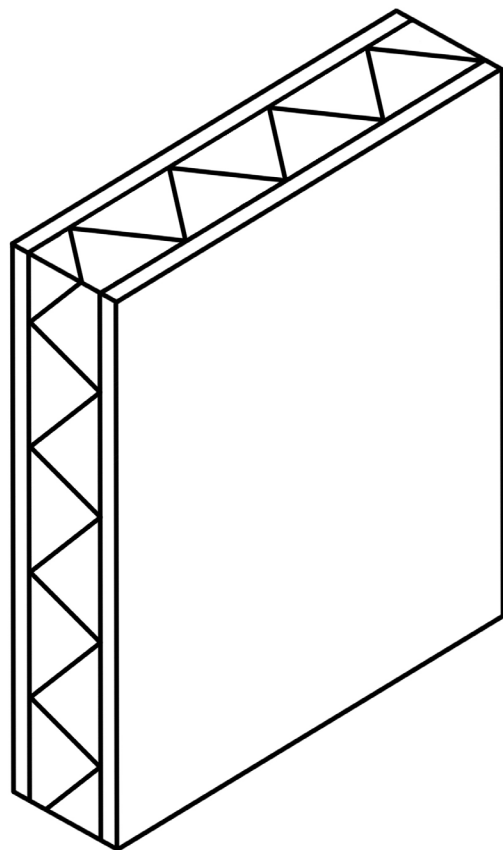
Glulam columns
(300x300x3900)

122x



Kerto prefabricated floor slabs
(6000x4800x400)

254x

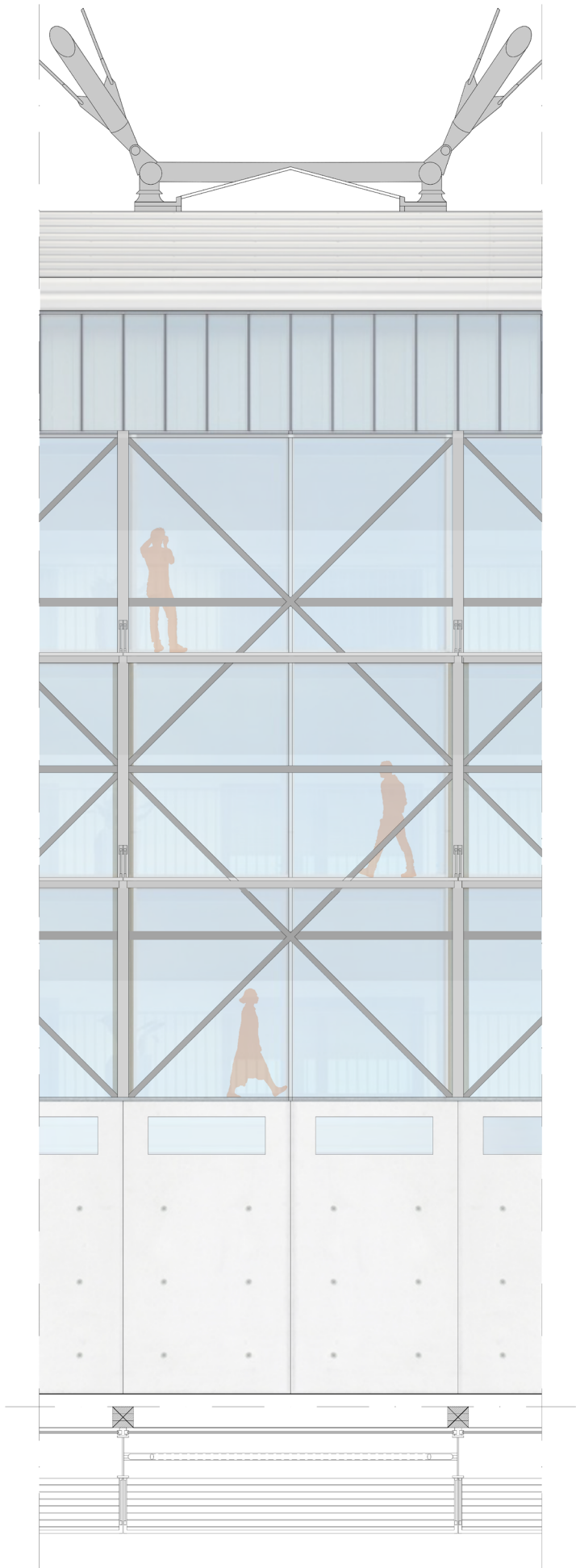
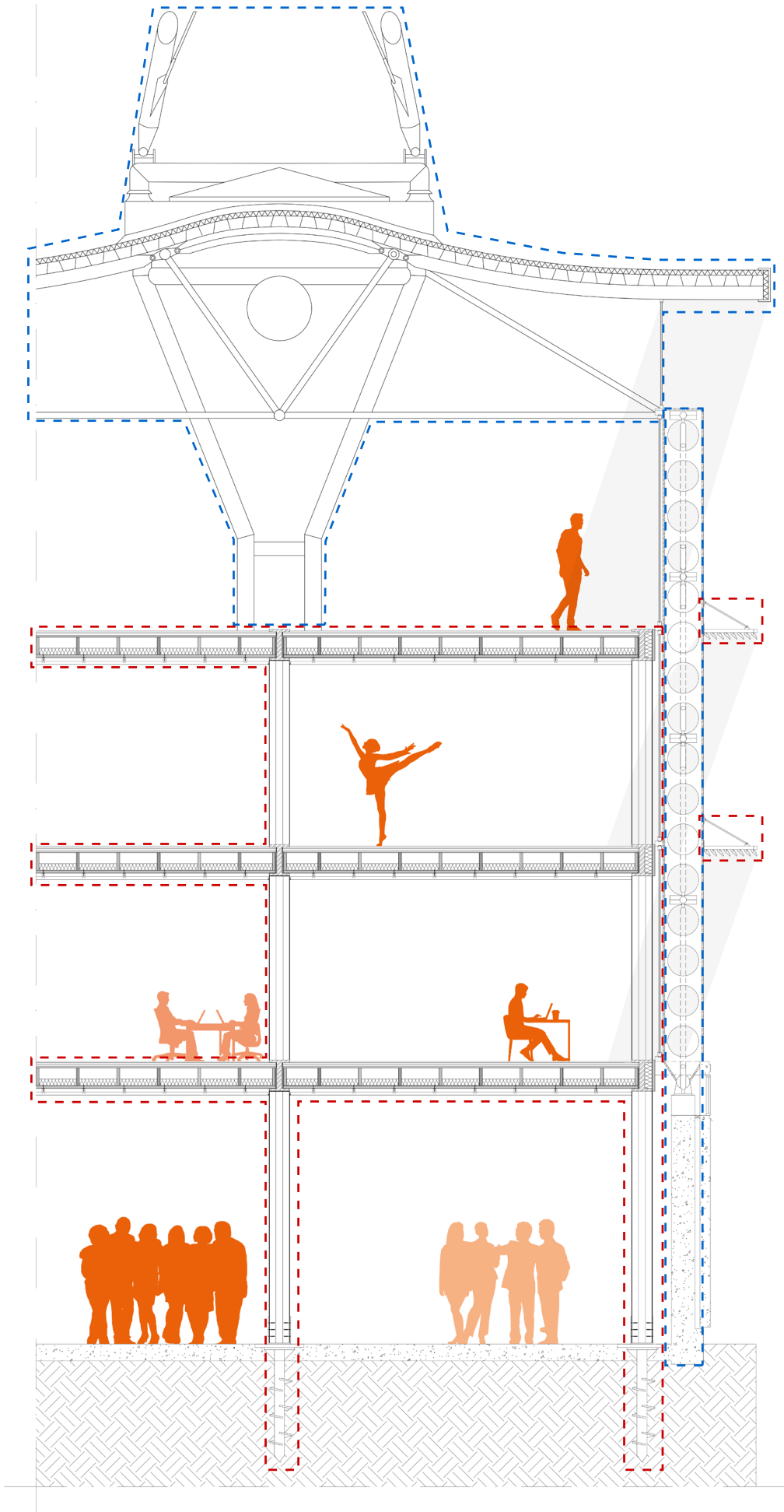


Wall panels with acoustic insulation
(6000x4800x400)

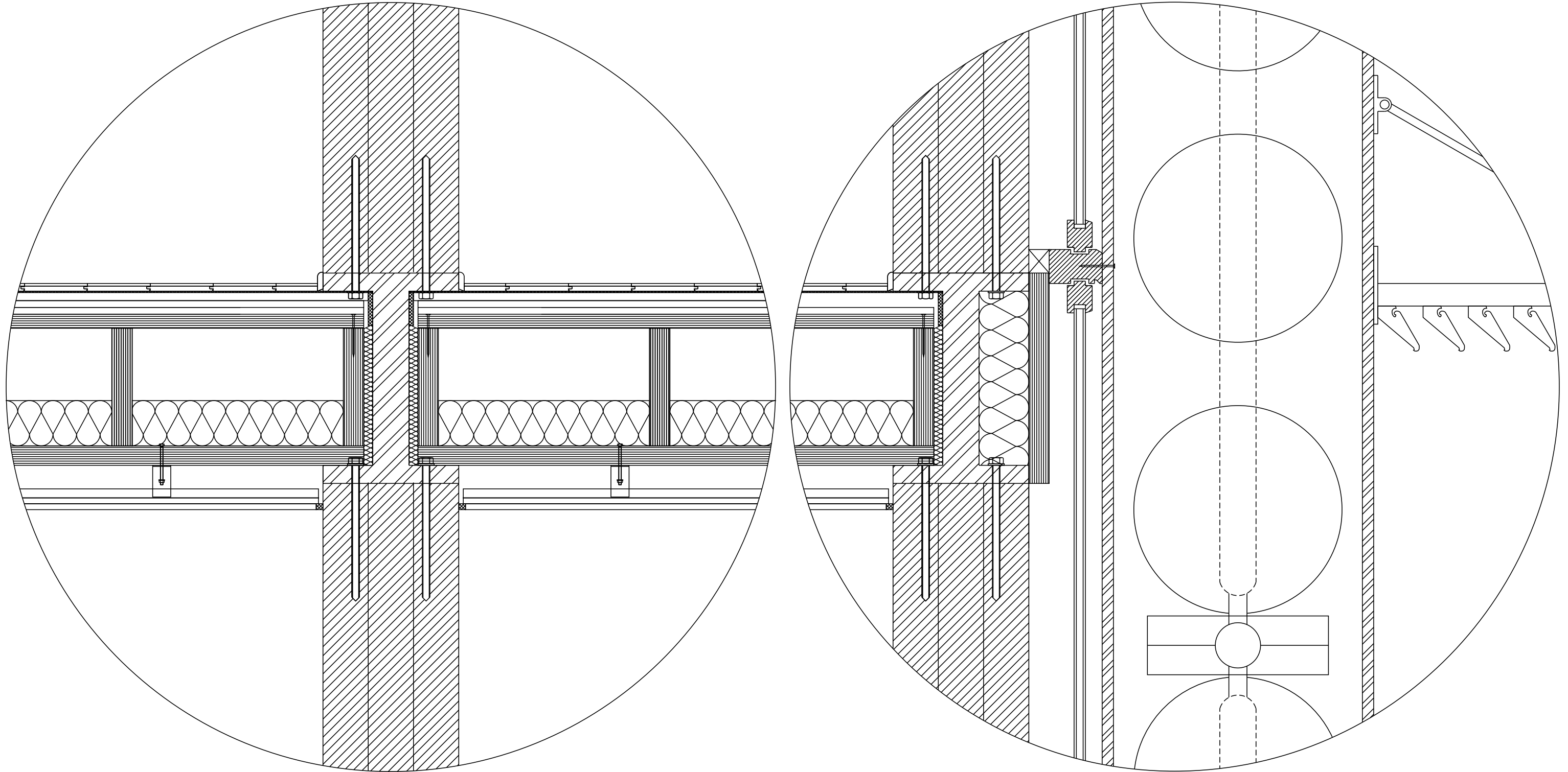
88x

Fragment

- Existing
- New



Technical Details



Thank you for your attention!