

The Festival Machine

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Delft University of Technology
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MUSIC FESTIVALS ARE IN DEMAND



(tiktakevents, 2018)

FESTIVALS HAVE A LARGE CAPACITY



(Entranz B.V., n.d.)

SHORT SEASON FOR FESTIVALS



(Coop, 2012)

DISCONNECTED FROM THE CITY



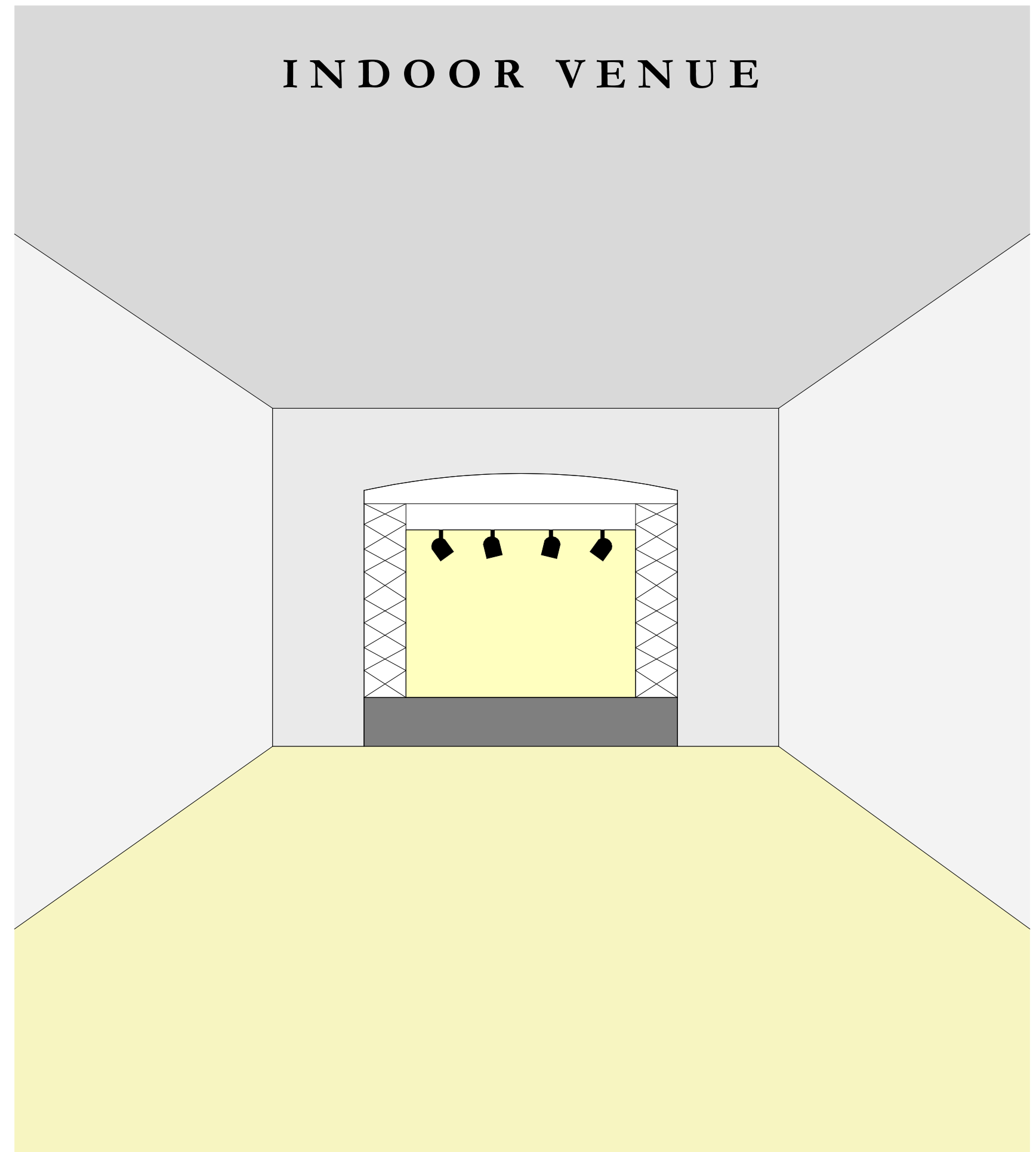
(Kesebir & Kesebir, 2017)

OUTDOOR FESTIVAL



- + In demand
- + Large capacity
- Short festival season
- Disconnected from the city

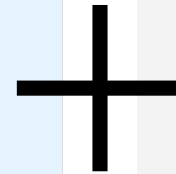
- + Close proximity to the city
- + Almost no build up time
- Little room for exploration
- Less flexible music rooms



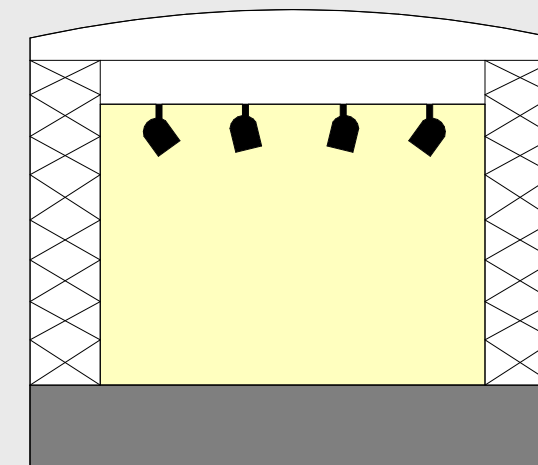
OUTDOOR FESTIVAL



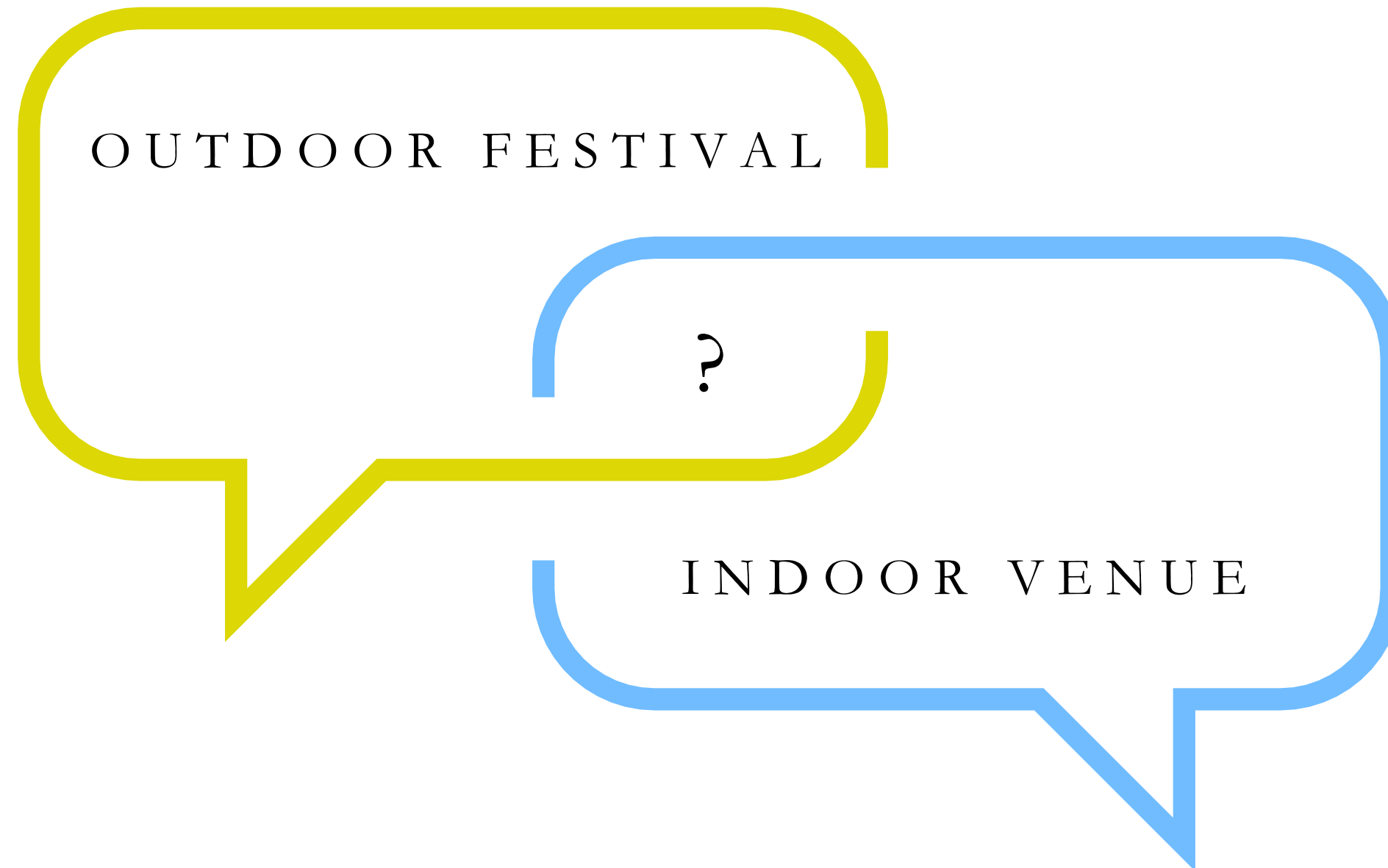
- + Large visitor capacity
- + Flexible music organisation



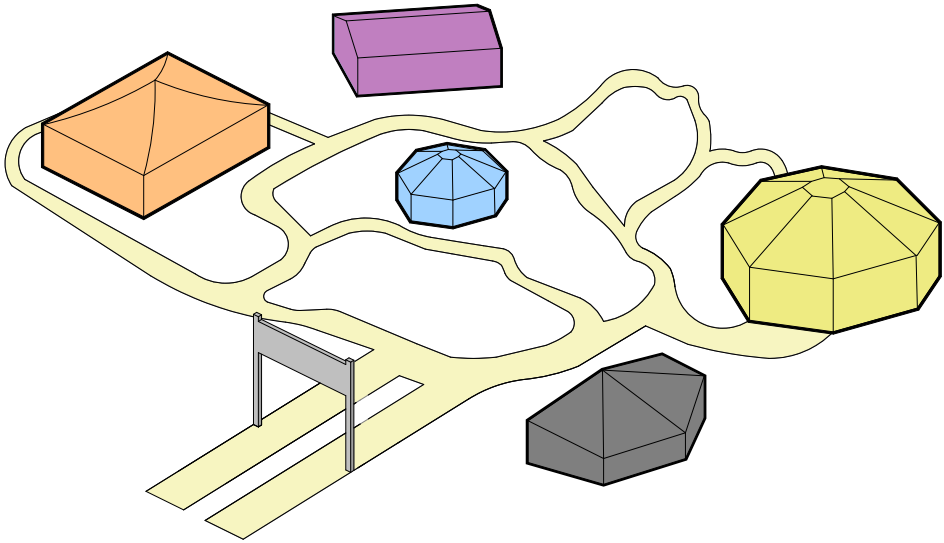
INDOOR VENUE



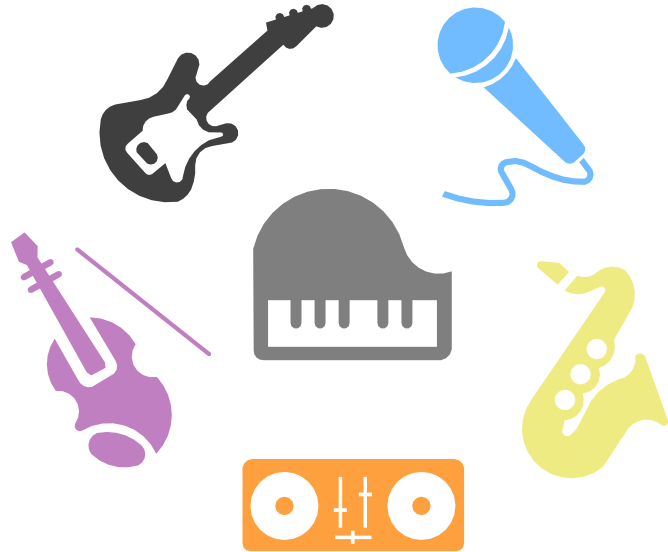
- + Close proximity to the city
- + Almost no build up time



Ambitions



1. EXPLORATION OF MUSIC



2. INCLUSIVITY

Music day

camping

foodtruck

bar/drinks

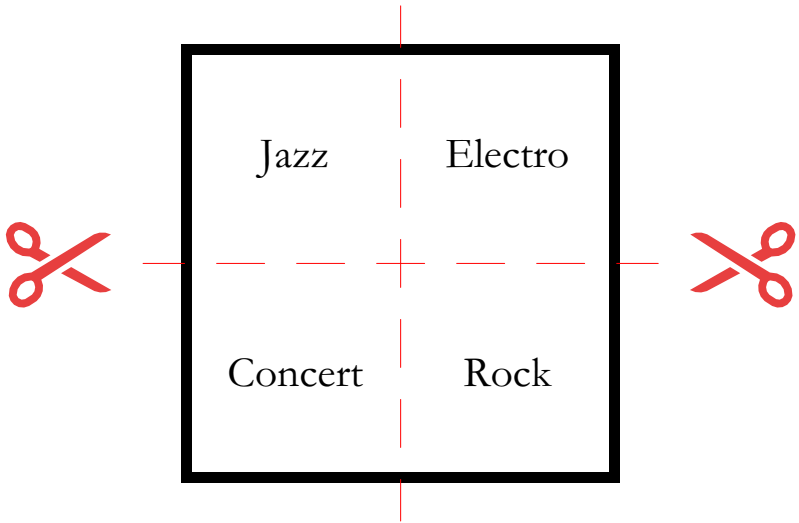
Non-music day

hotel

restaurant

cafe

3. DUAL FUNCTIONS



3. HYBRIDITY

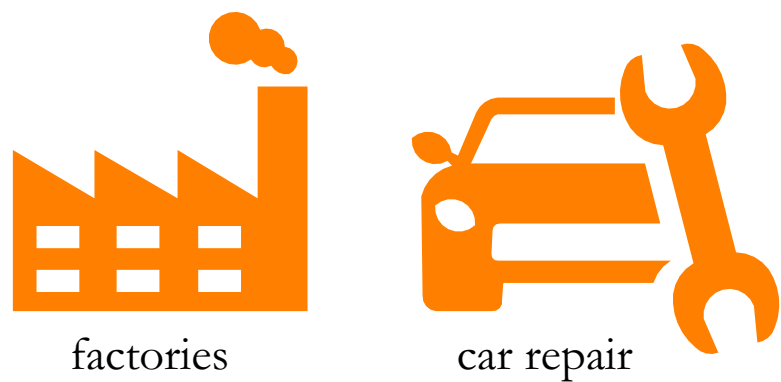
Location



Binckhorst



Binckhorst analysis



factories

car repair

CITY



50 kmh road

harbor

CONNECTION



terrace

monuments

CULTURE



(Jiri Büller, nd)



(BPD, n.d.)



(Pols, 2019)



festival catering

artist accommodation

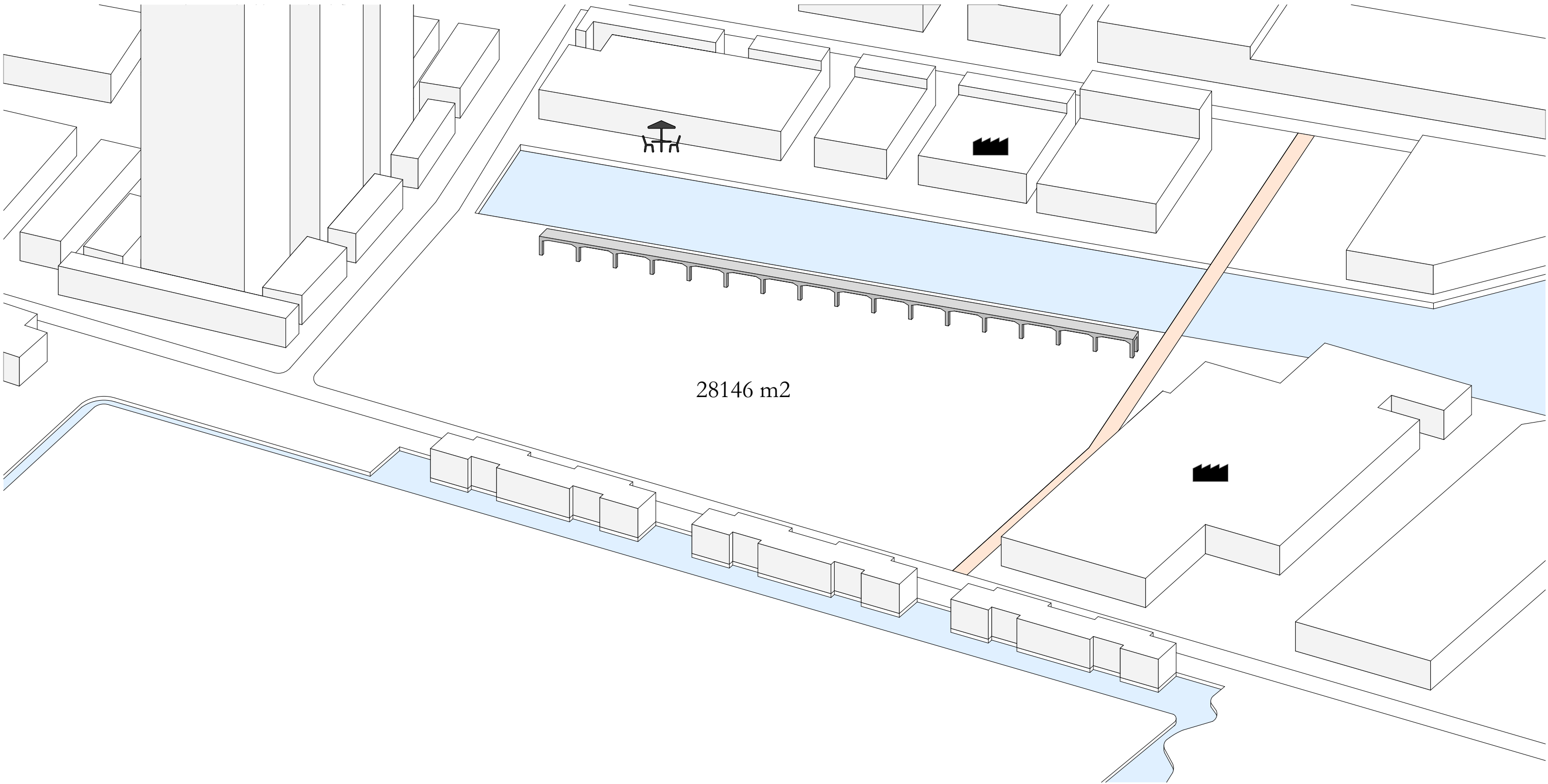
camping

crew

THE FESTIVAL MIGRATION

A framework for the urbanisation of the contemporary festival.

Site

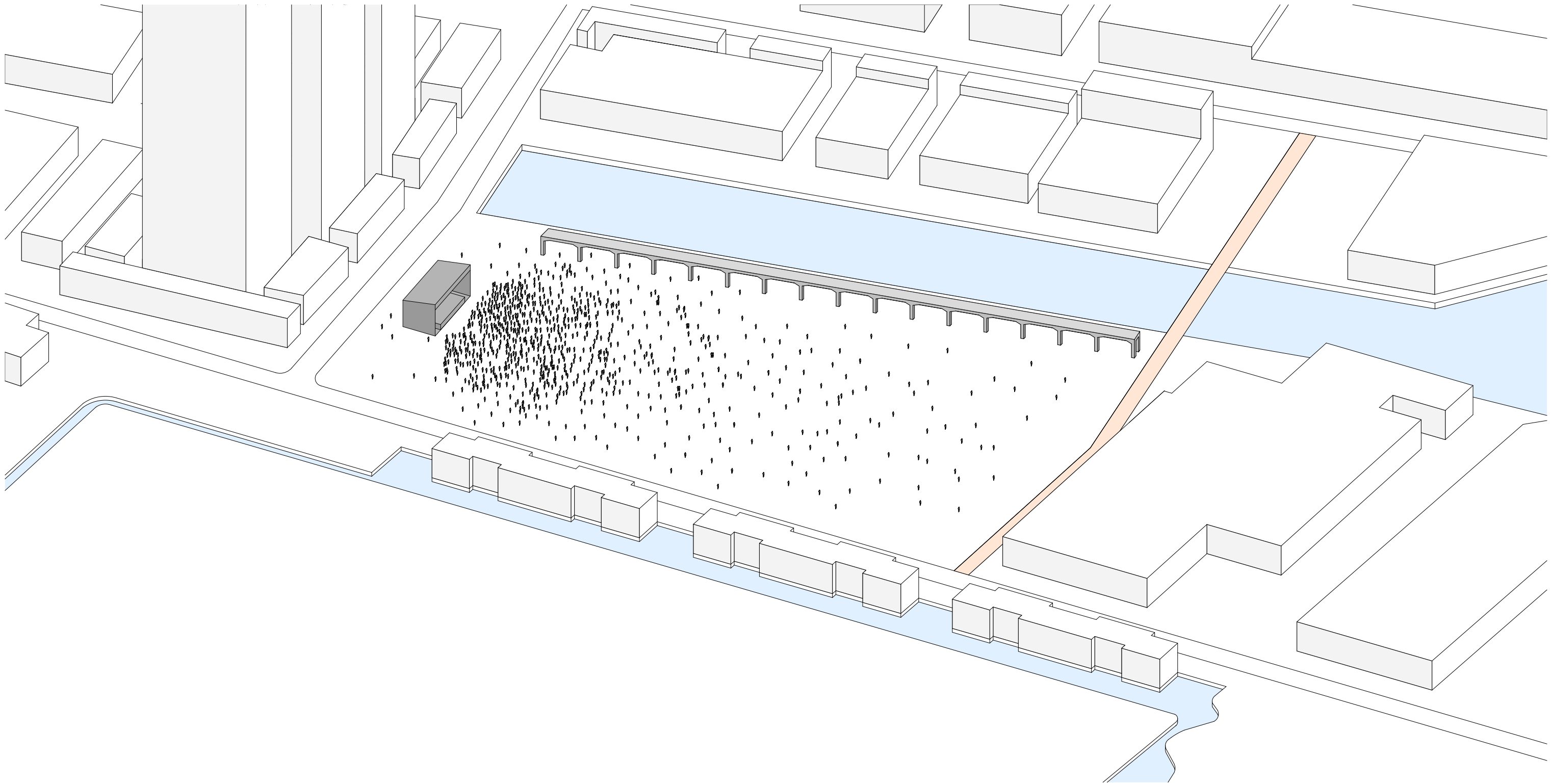


28146 m2

SITE

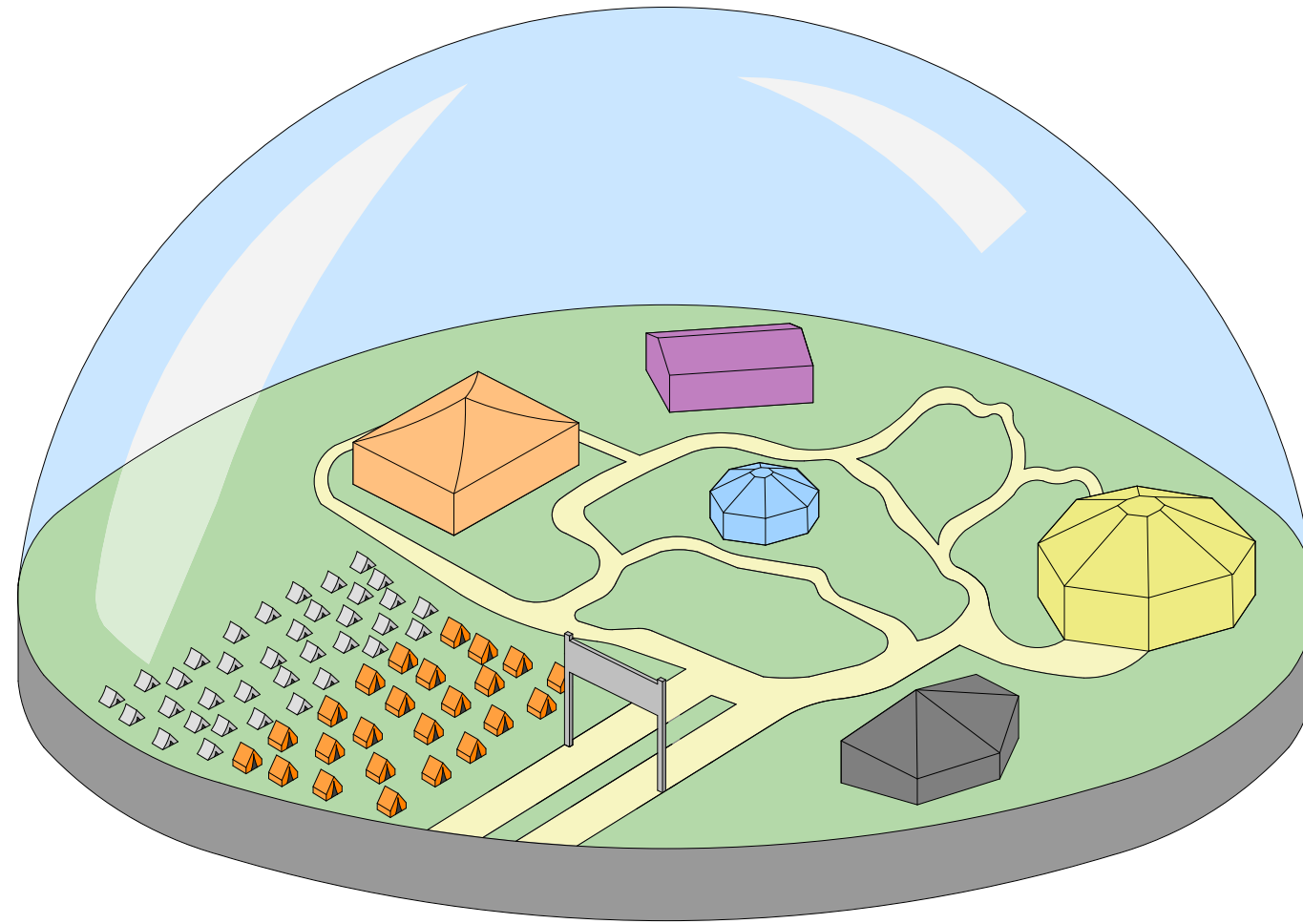
The plot is situated at a former cement factory
with of a concrete train track near the water.

Outdoor concert



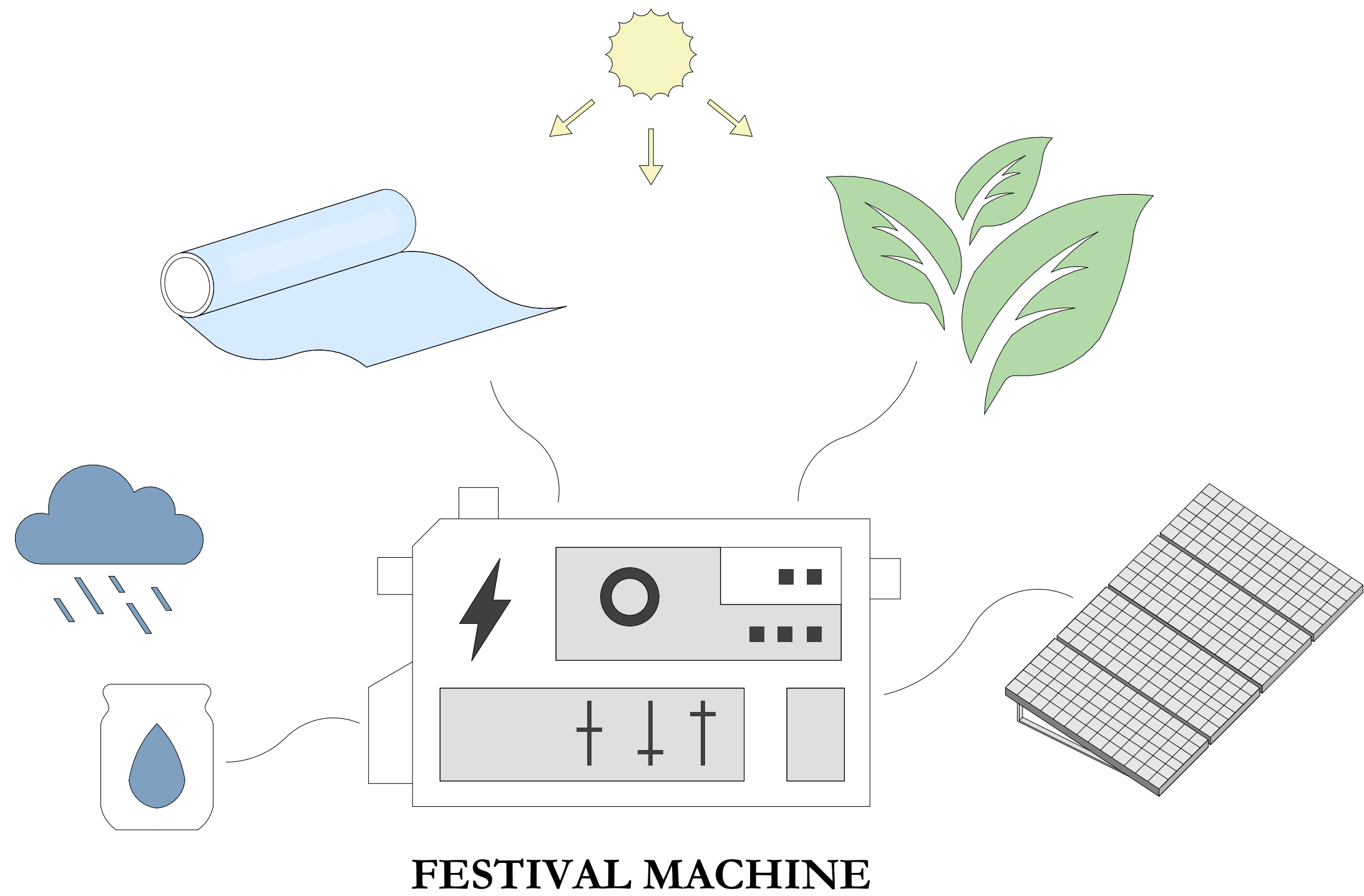
CAPACITY

The plot offers an outdoor festival capacity of around 40.000 people.



INDOOR FESTIVAL

Building technology concept



Brief

CATERING:

- Restaurant
- Jazz barr
- Cafe
- Irish pub
- Cafe
- Hardrock cafe
- Blues cafe
- Hotel restaurant
- Recycle point

CAMPING:

- Lobby
- Reception
- Camping supermarket
- Info point
- Chill spots
- Hotel rooms
- Hostel rooms
- Festival pods
- Toilets/showers
- Cleaning crew
- Breakfast/lunch bars

FESTIVAL STAGES:

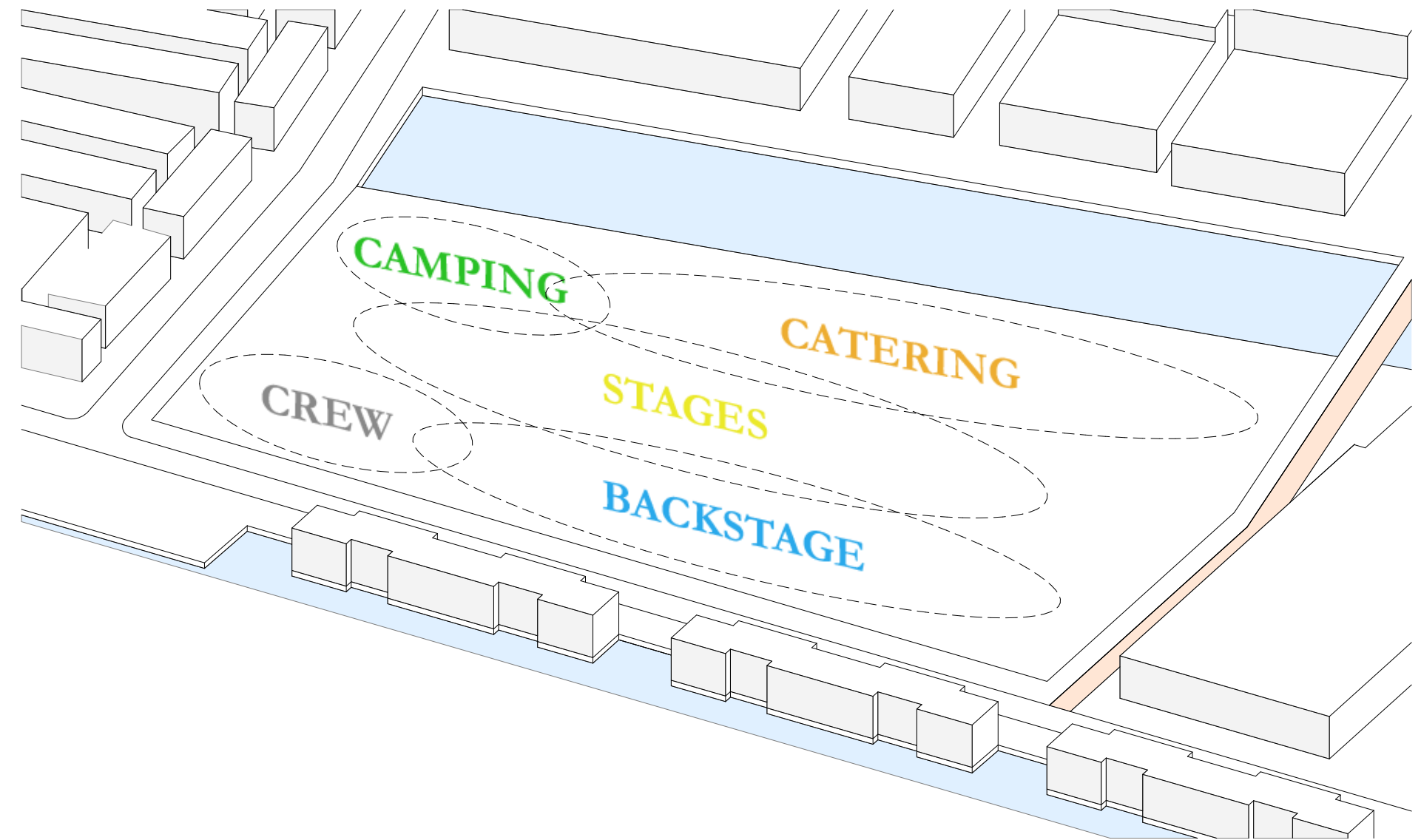
- Festival hall (5 stages)
- Festival storage
- Toilets
- Gardrobe
- Transportation acces

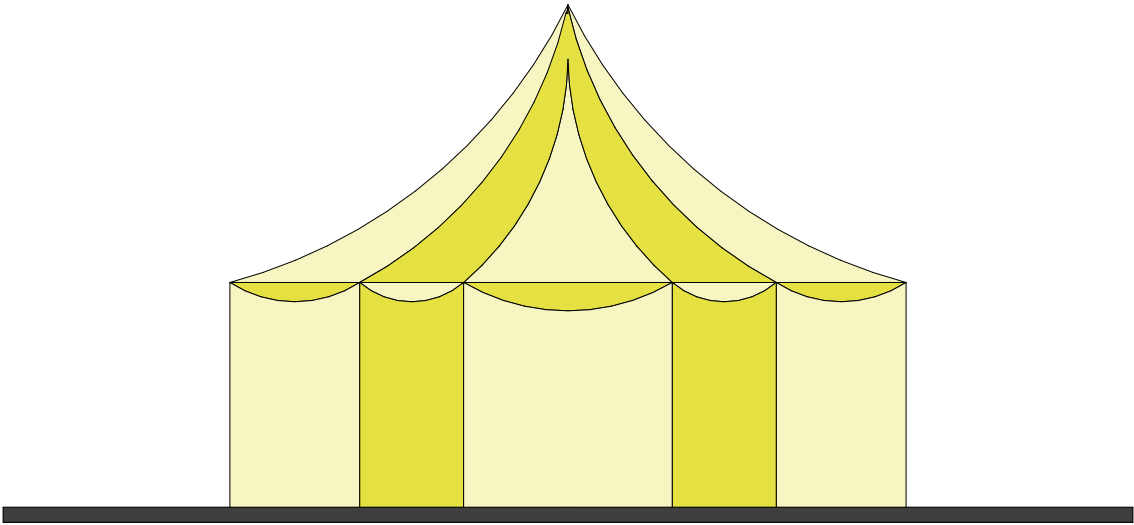
BACKSTAGE:

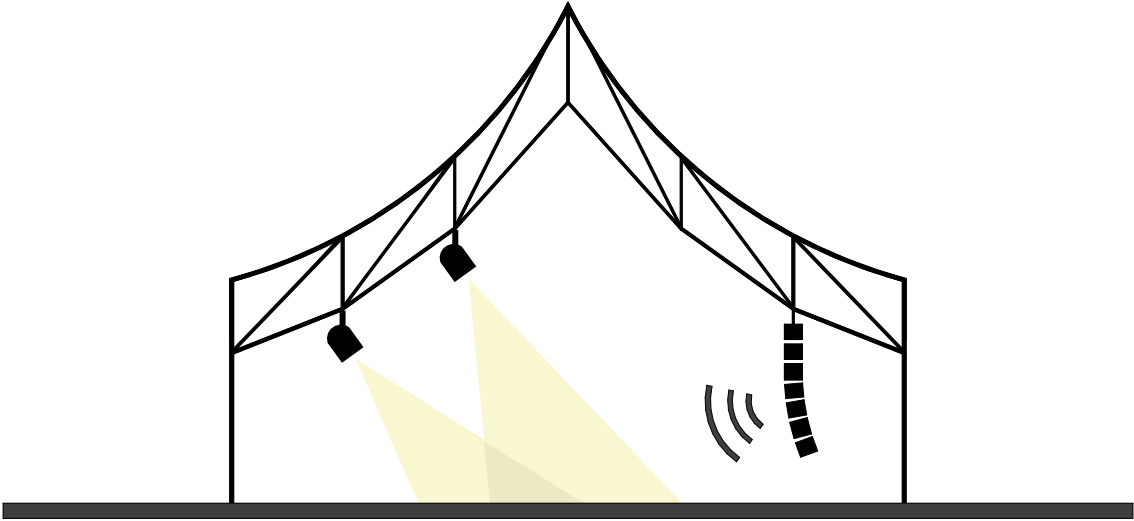
- Artist entrance A
- Artist entrance B
- Artist entrance C
- Elevators
- Fright elevator
- 5 artist lofts
- 2 artist lounges
- Recording studio
- Parking spaces

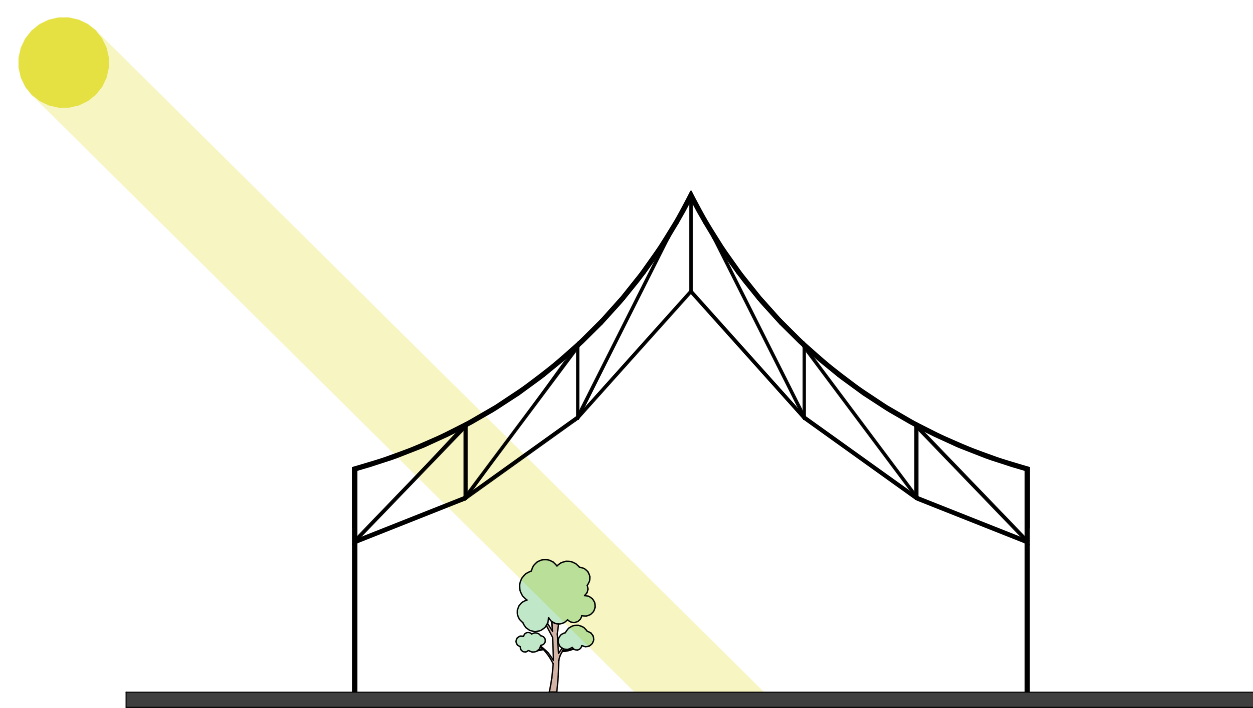
CREW:

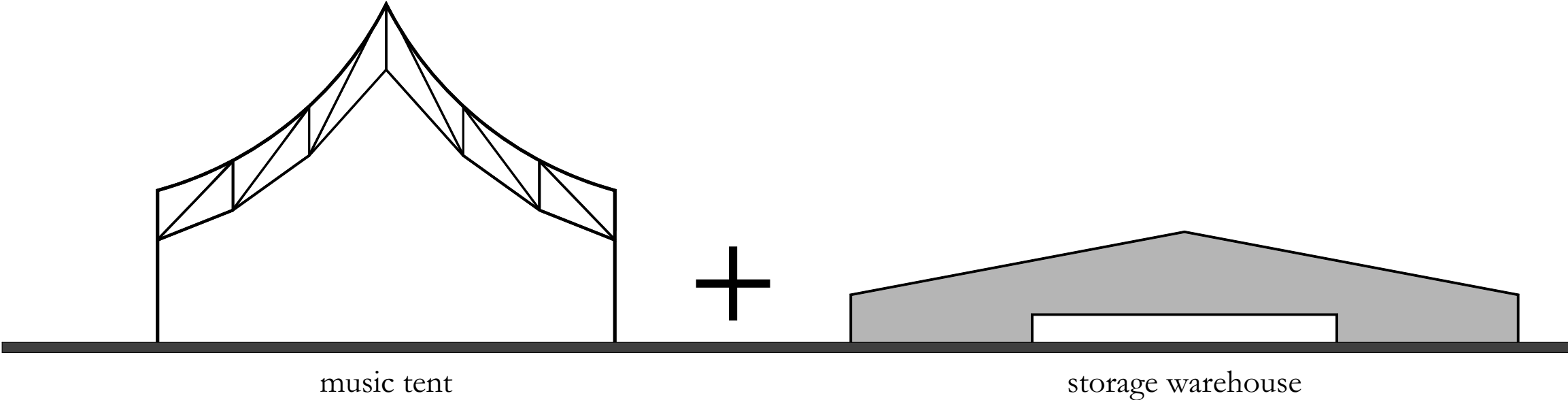
- Organisation offices
- Technical stages
- Stairwells
- First aid rooms

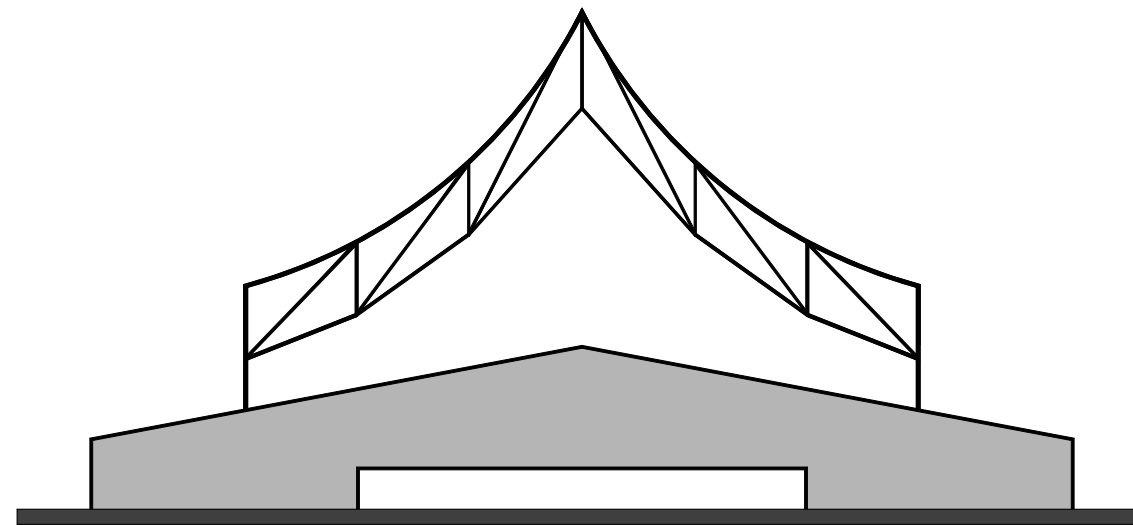


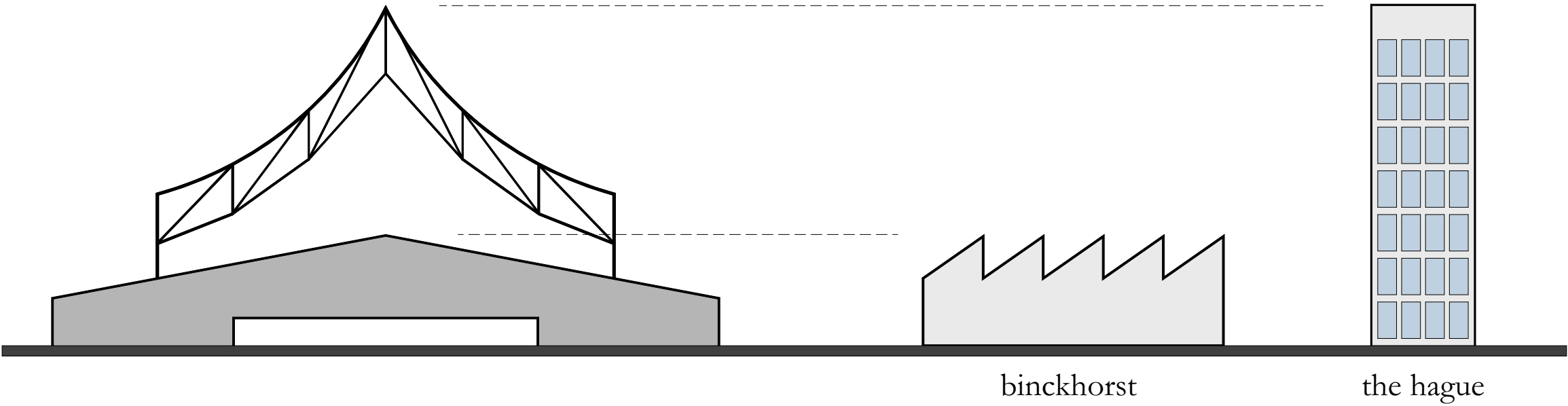


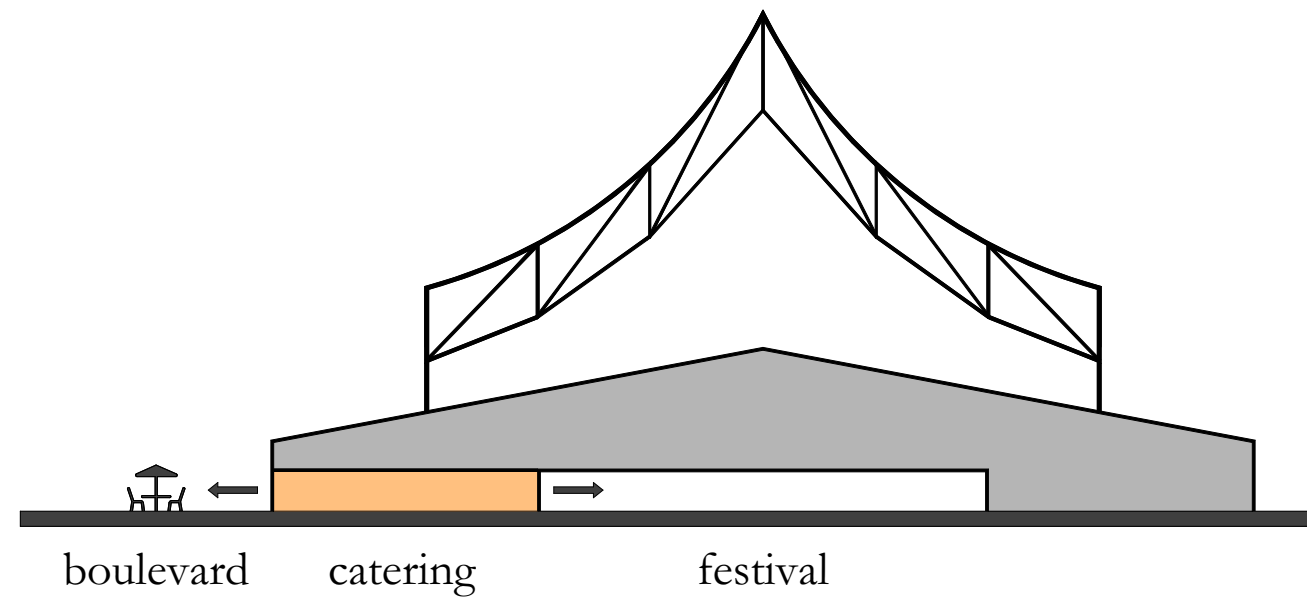


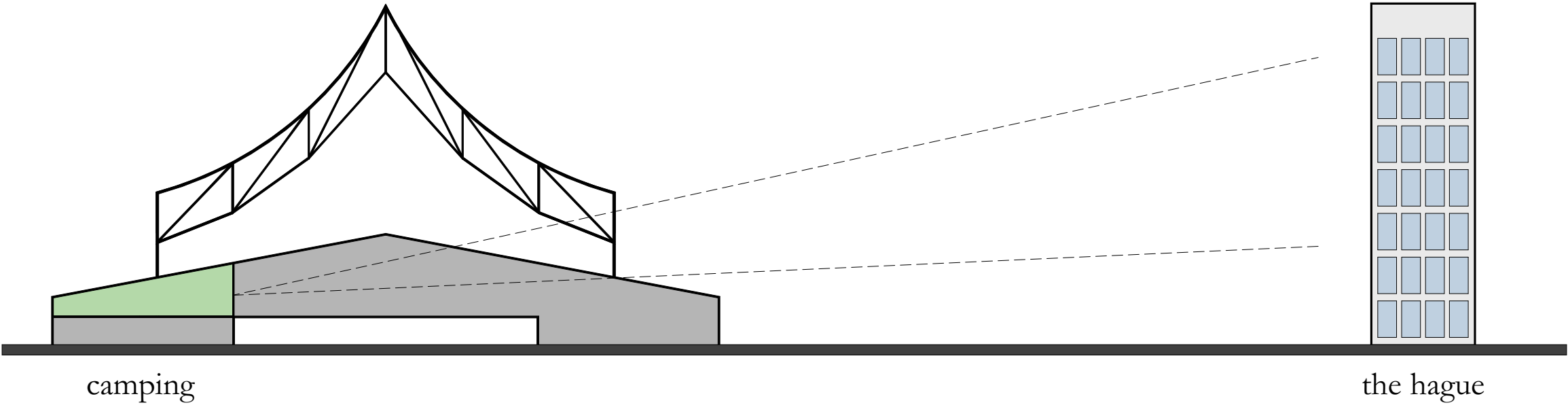


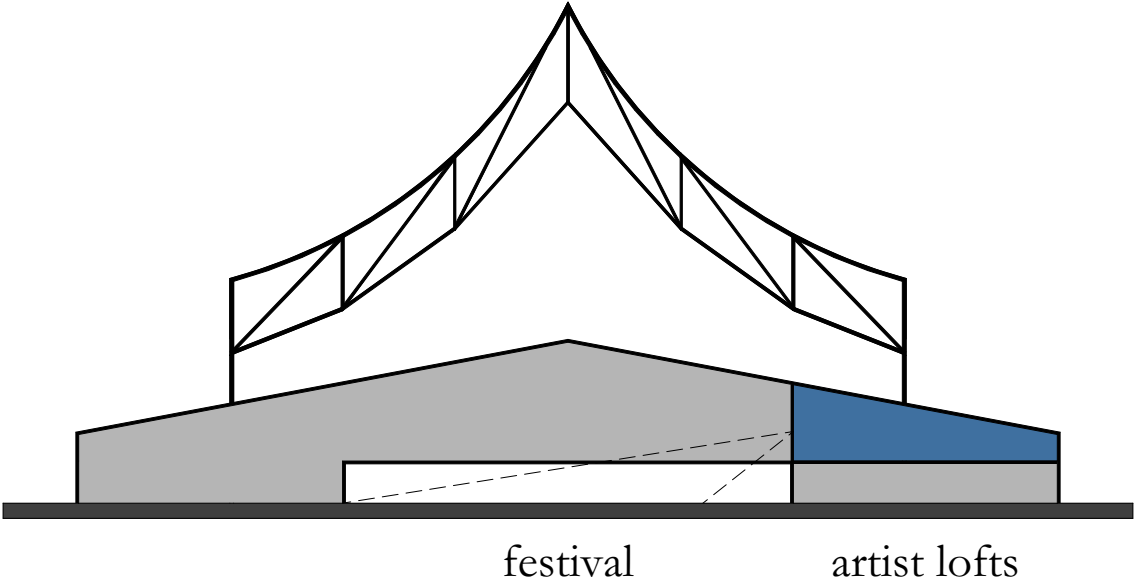










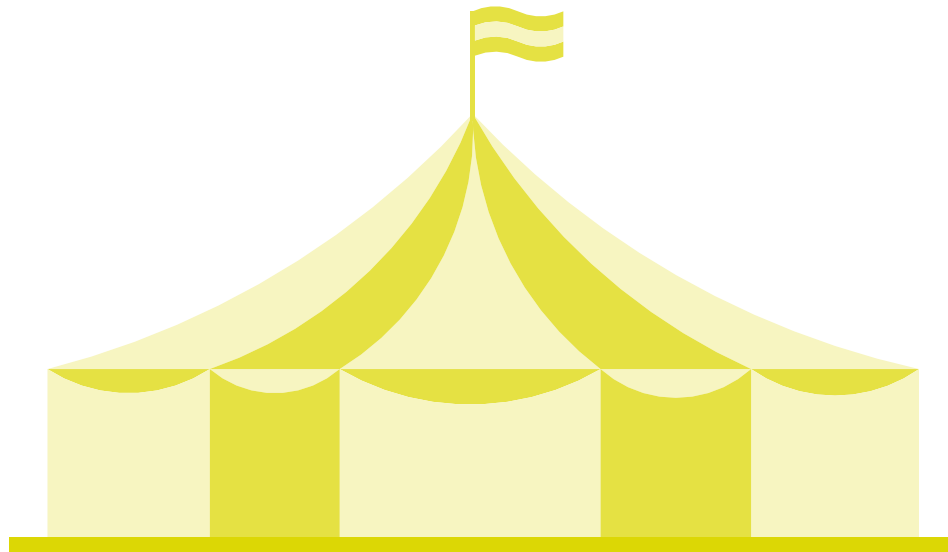




CATERING



CAMPING



STAGE

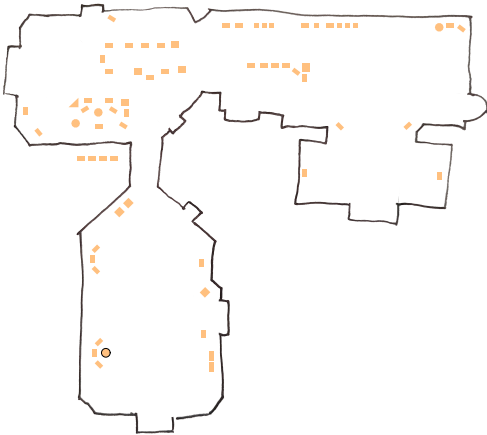


BACKSTAGE

CATERING CONFIGURATION

- supply
- foodtrucks
- festival

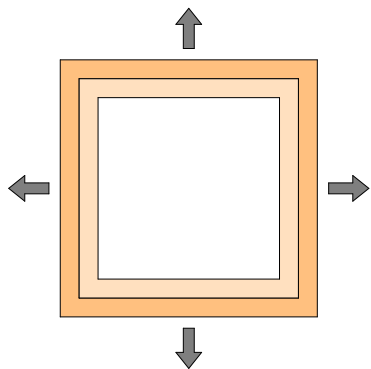
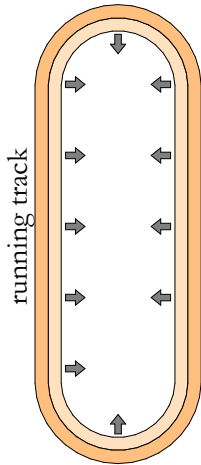
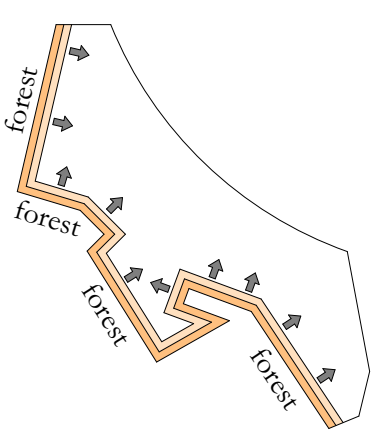
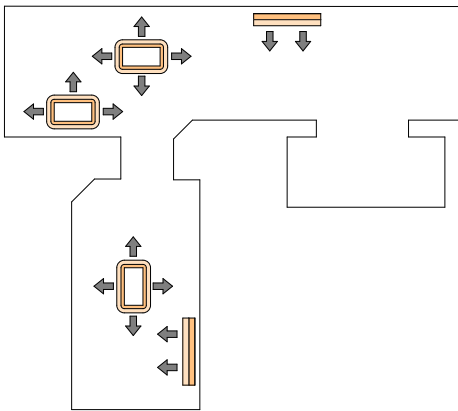
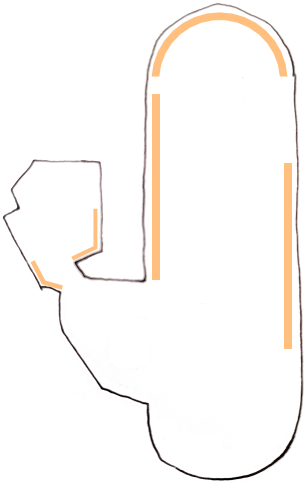
LOWLANDS



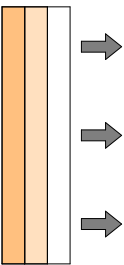
DOWN THE RABBIT HOLE



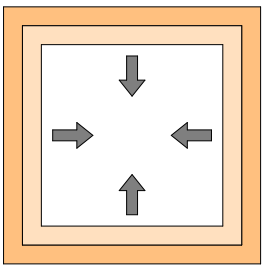
PINKPOP



OUTWARD



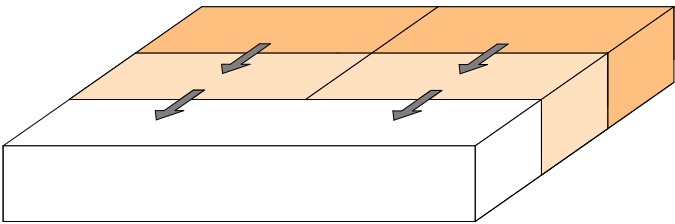
CONSECUTIVE



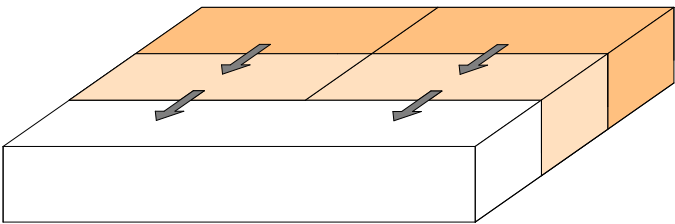
INWARD

INDOOR TRANSLATION

- supply
- foodtrucks
- festival

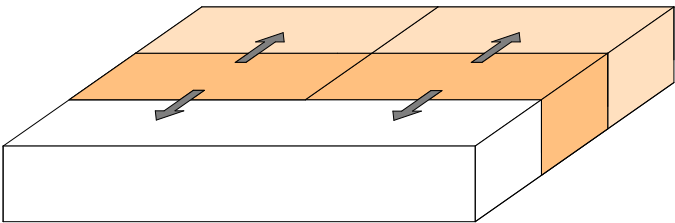


OUTDOOR PRINCIPLE



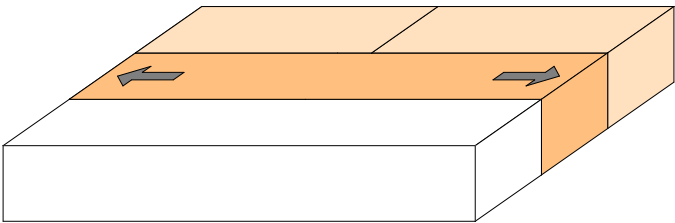
- kitchen
- cafe
- festival

INDOOR TRANSLATION



- cafe
- kitchen
- festival

DUAL KITCHEN



- cafe
- kitchen
- festival

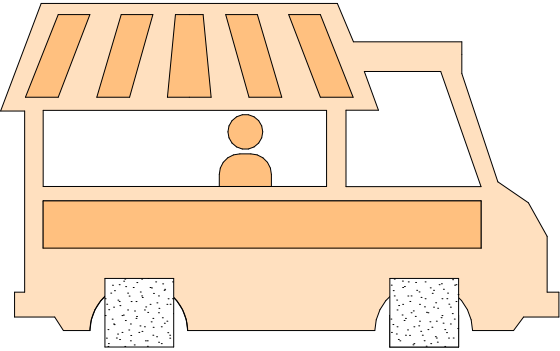
LINEAR KITCHEN

CATERING FUNCTION



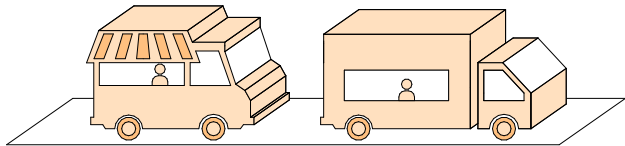
(Image by author)

INDOOR TRANSLATION

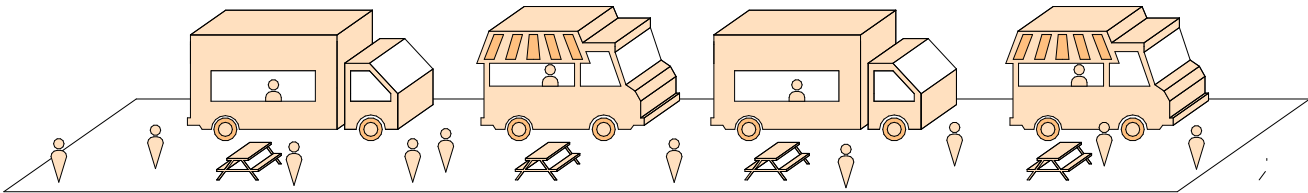


PERMANENT

CATERING EXPERIENCE



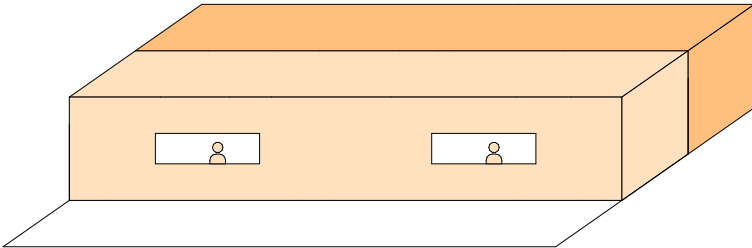
INDEPENDENT FOODTRUCKS



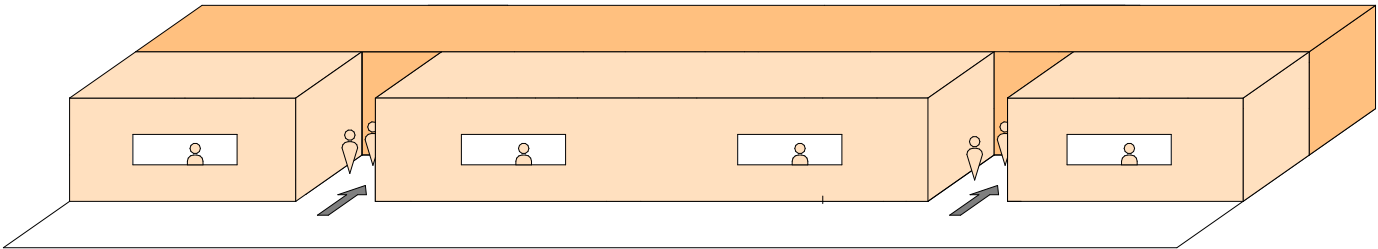
OUTDOOR CONSUMPTION

INDOOR TRANSLATION

- cafe
- kitchen



COLLECTIVE CAFES

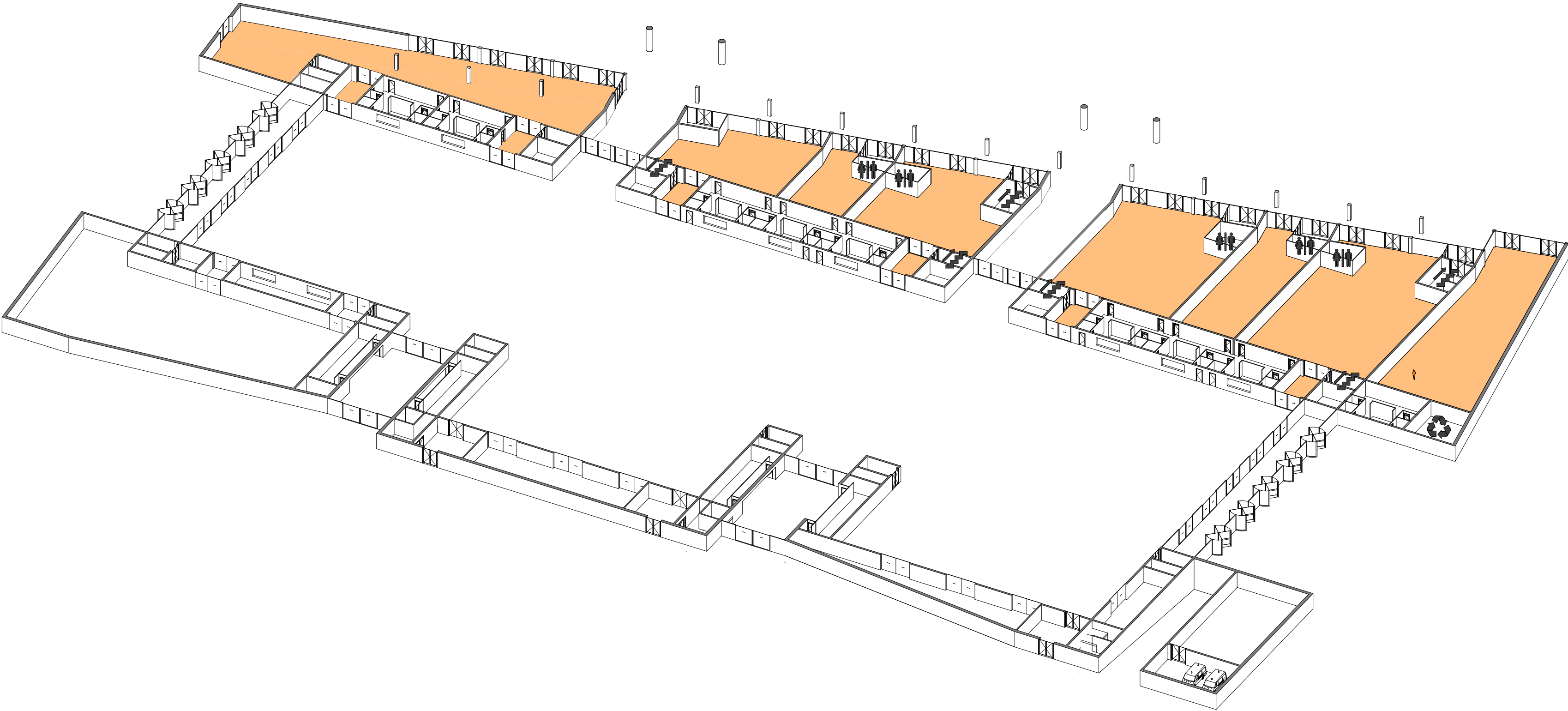


INDOOR CONSUMPTION



CATERING OVERVIEW

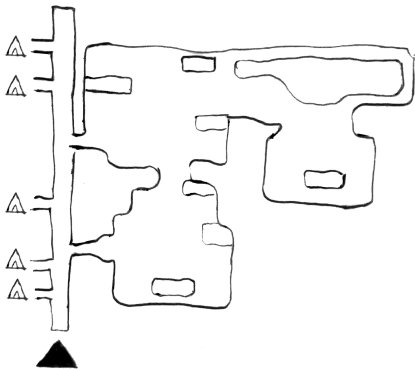
-  catering
-  toilets
-  terrace
-  stairwell
-  recycle point



CAMPING CONFIGURATION

- camping
- festival
- passage

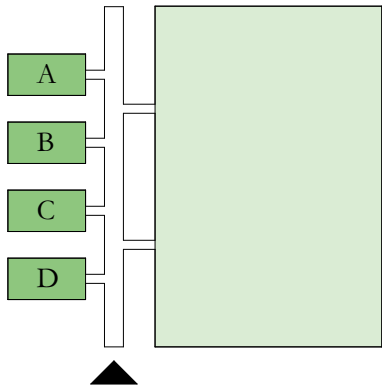
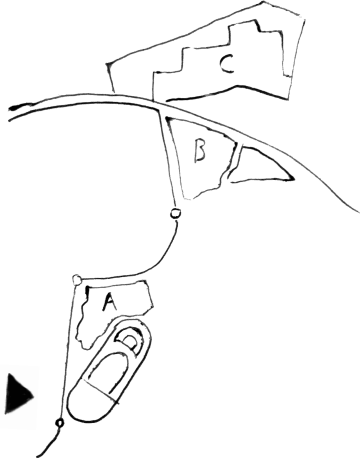
LOWLANDS



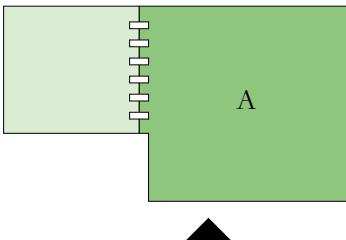
DOWN THE RABBIT HOLE



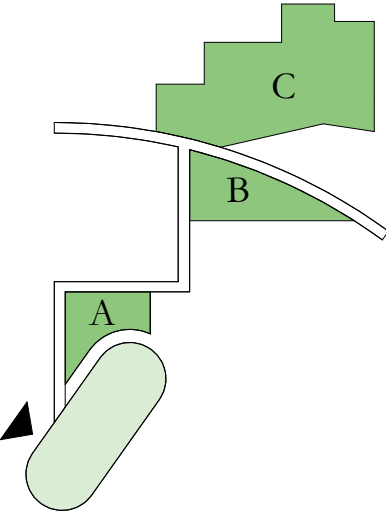
PINKPOP



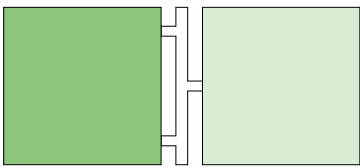
LINEAR



CONNECTED

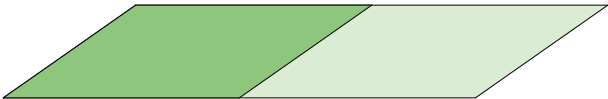


DISCONNECTED

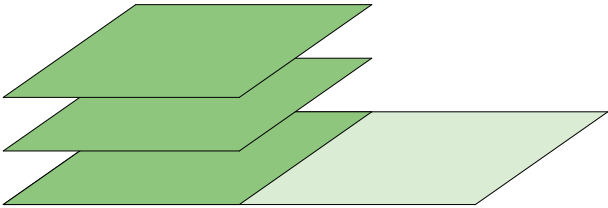


INDOOR TRANSLATION

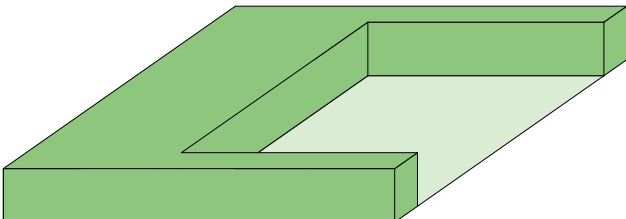
- camping
- festival
- passage



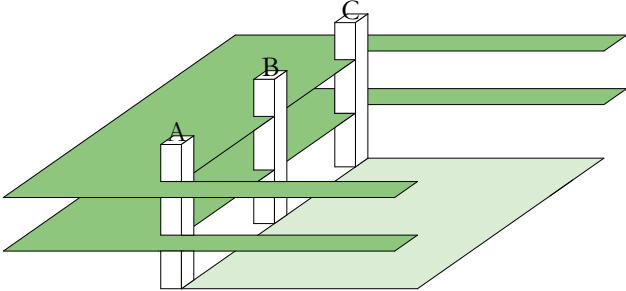
OUTDOOR PRINCIPLE



VERTICAL



ENCLOSED



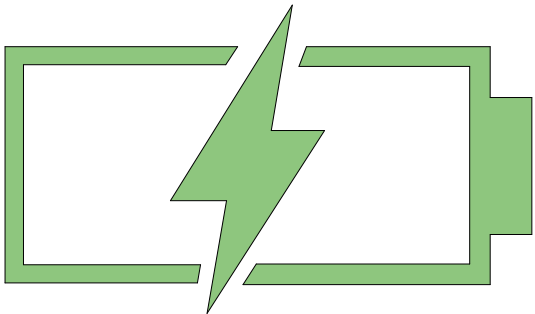
INTERCONNECTED

CAMPING FUNCTION



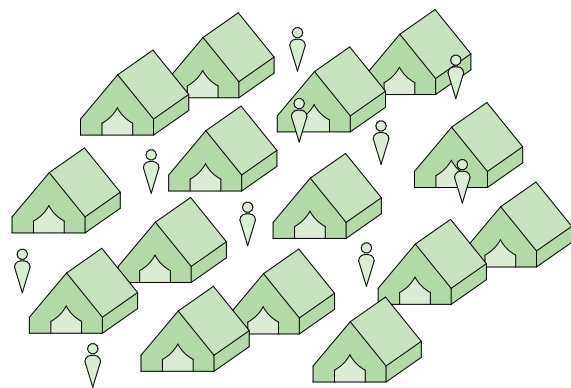
(Montemlife, 2020)

INDOOR TRANSLATION

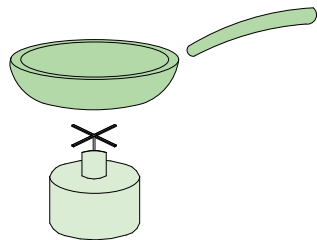


RECHARGE

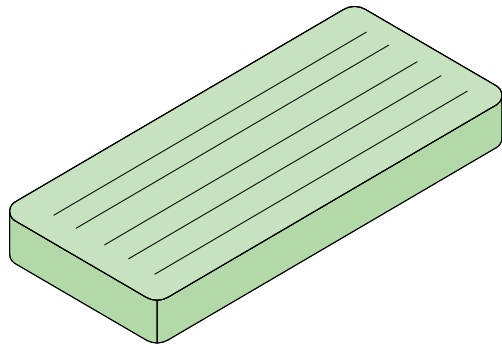
CAMPING EXPERIENCE



HORIZONTAL FESTIVAL TENTS

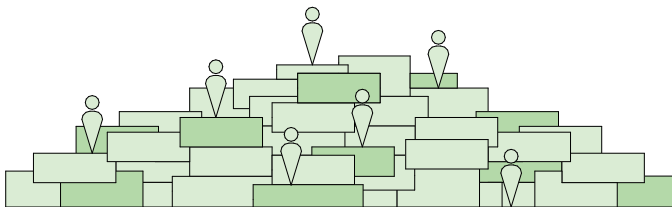


COOK BREAKFAST

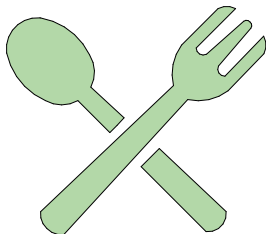


RELAXING

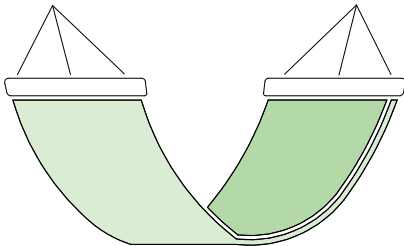
INDOOR TRANSLATION



VERTICAL FESTIVAL PODS

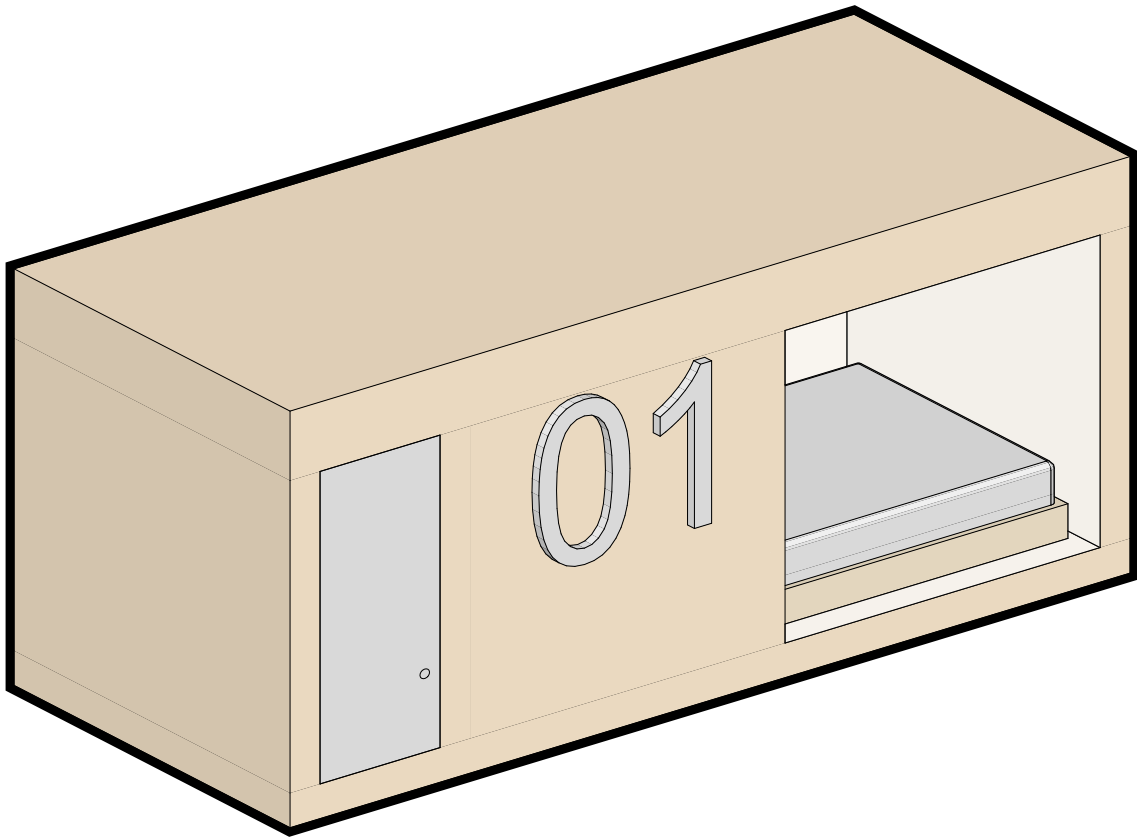


BREAKFAST PLACE

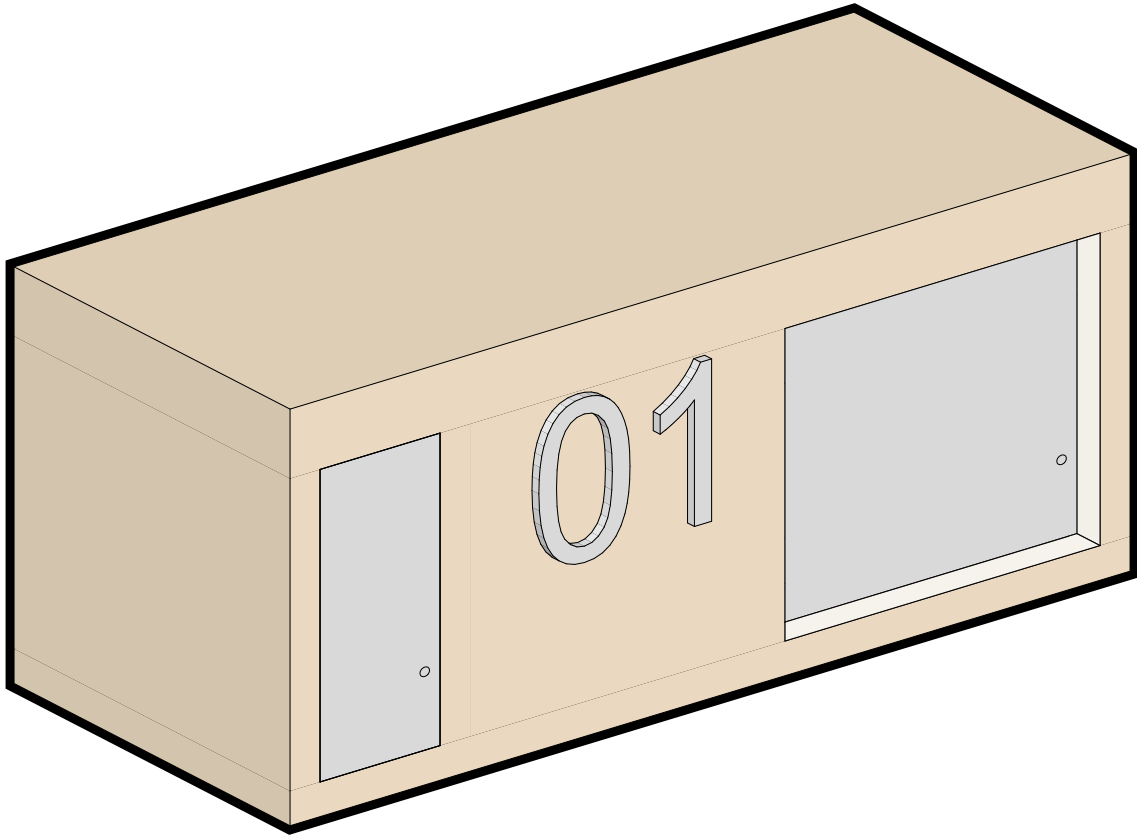


HAMMOCK

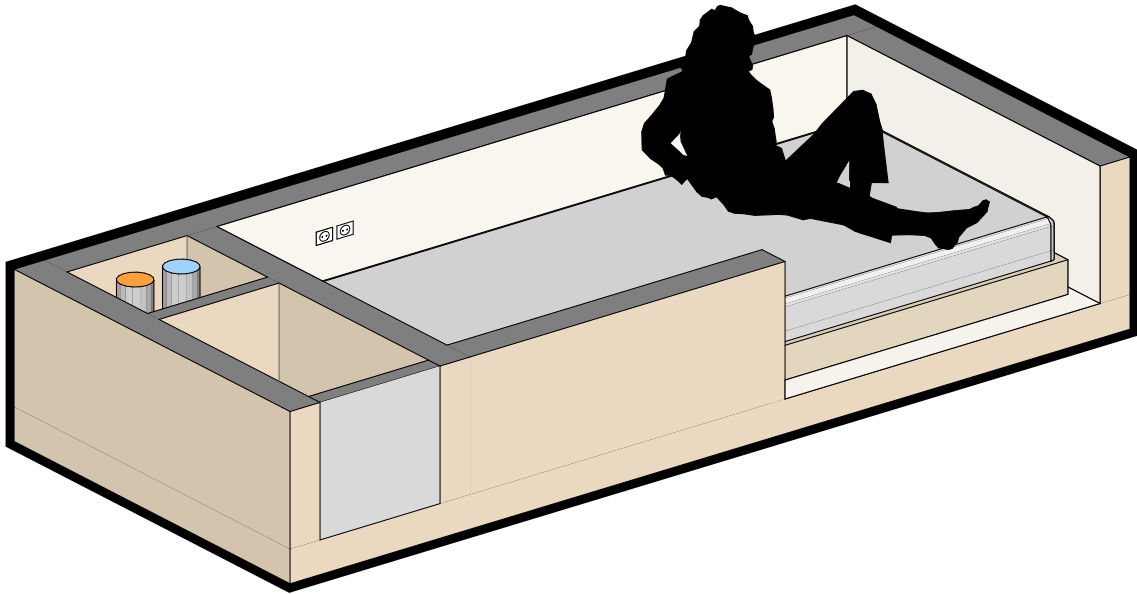
FESTIVAL POD



FESTIVAL POD



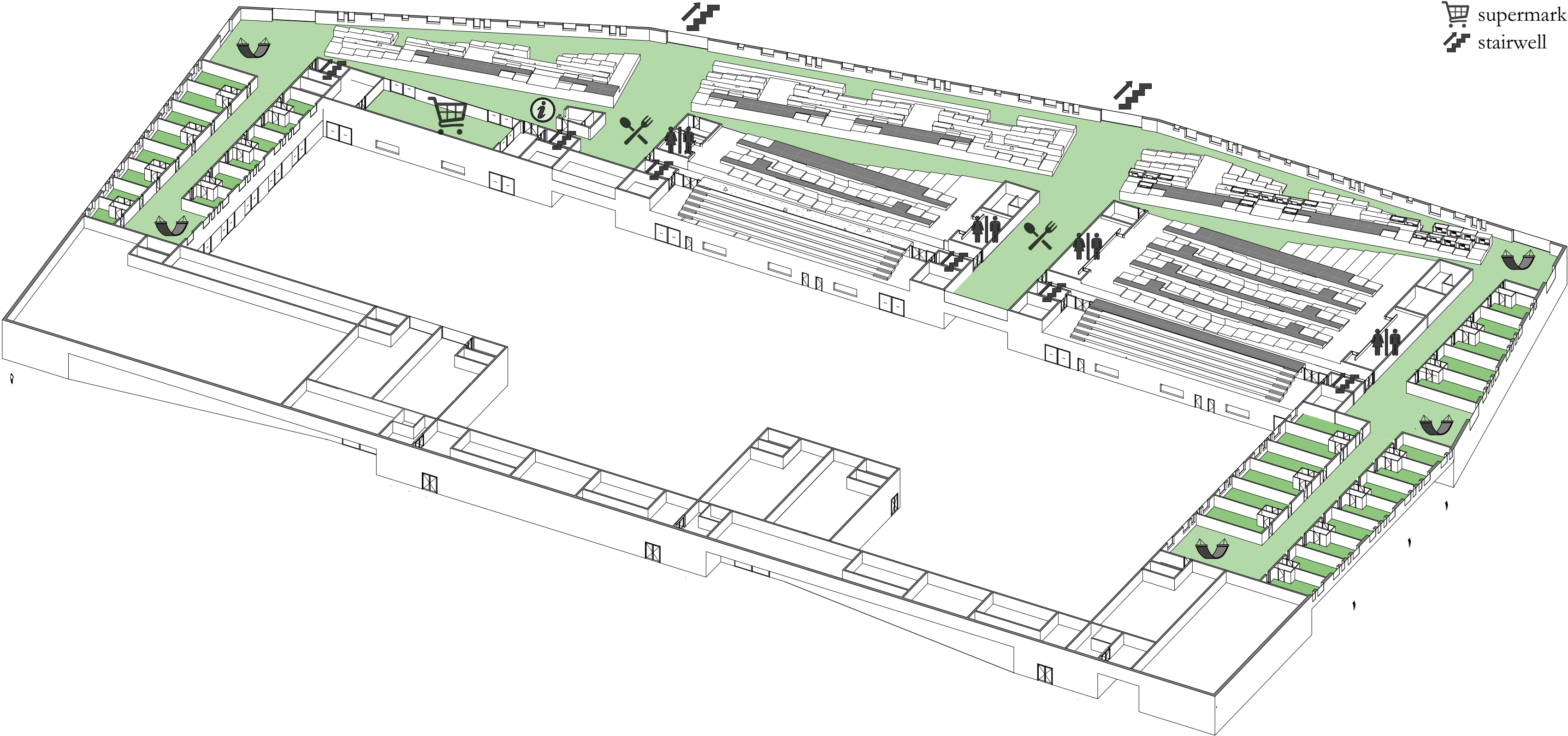
FESTIVAL POD





CAMPING OVERVIEW

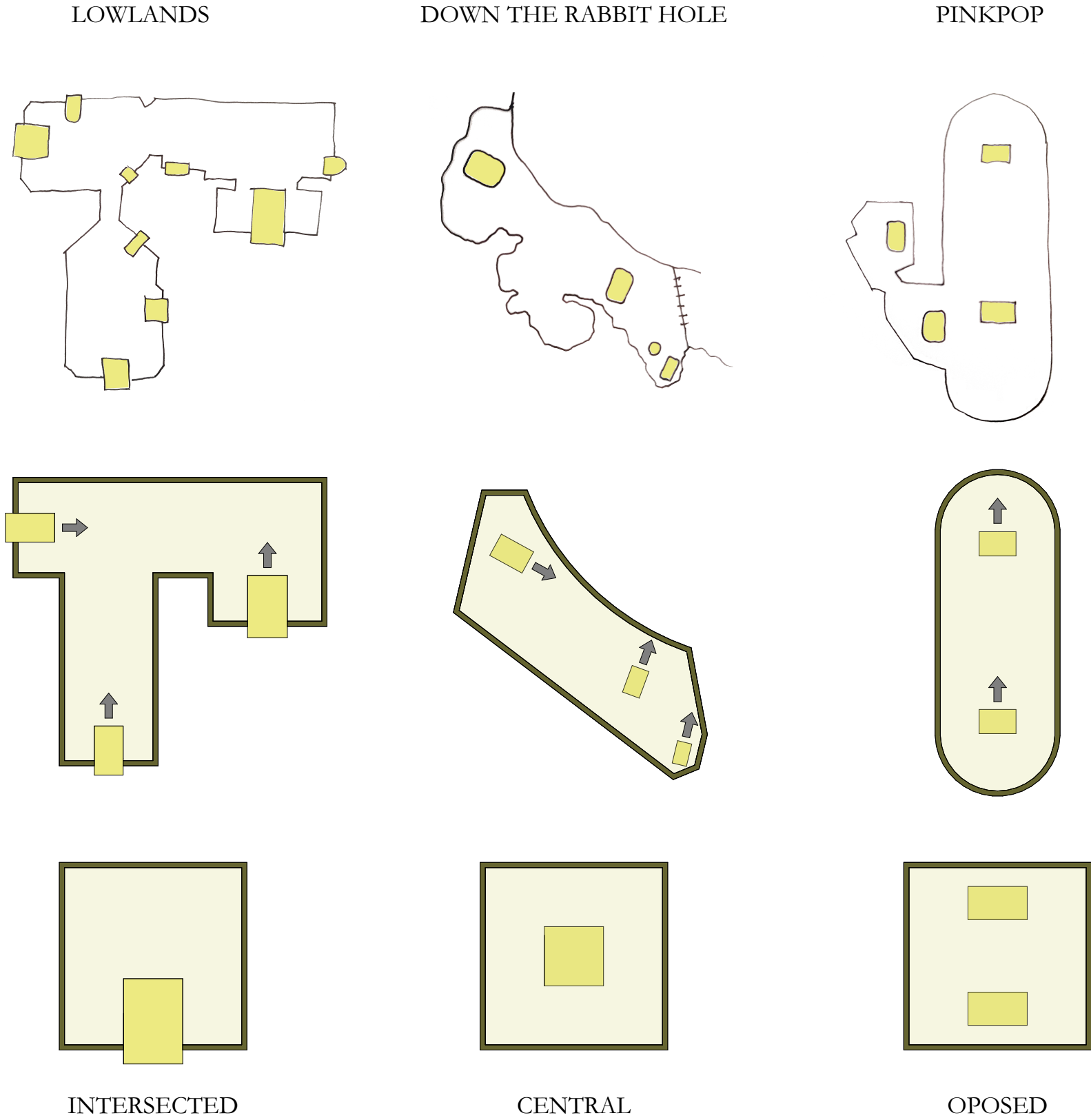
-  camping
-  toilets/showers
-  breakfast
-  info point
-  hammocks
-  supermarket
-  stairwell





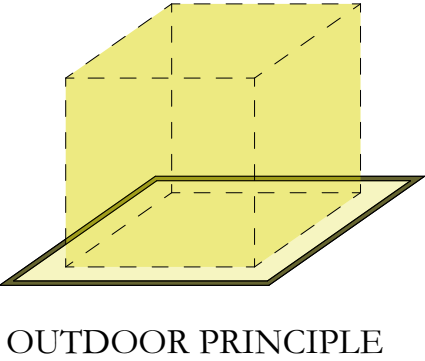
STAGES CONFIGURATION

- festival fence
- festival terrain
- temporal stage

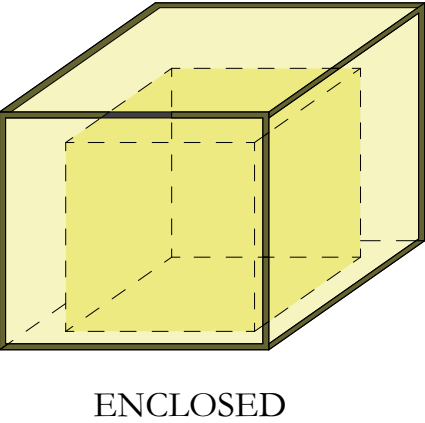


INDOOR TRANSLATION

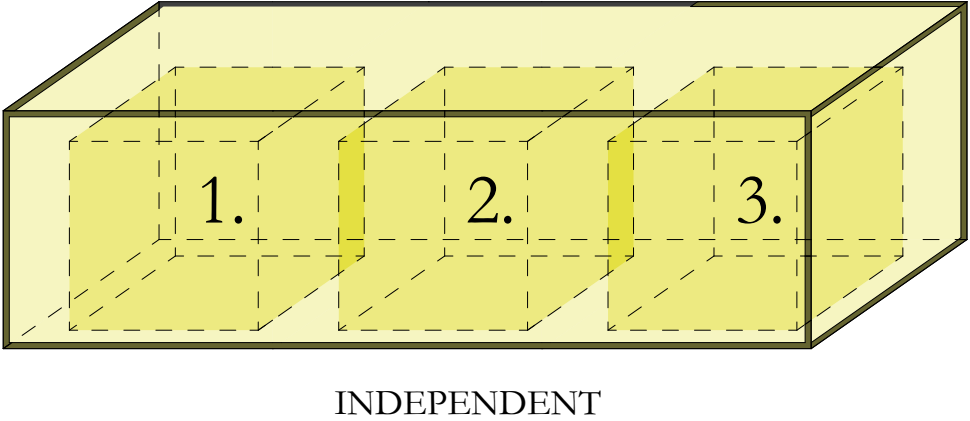
- festival fence
- festival terrain
- temporal stage



- festival wall
- festival terrain
- temporal stage



- festival wall
- festival terrain
- temporal stage



STAGES FUNCTION

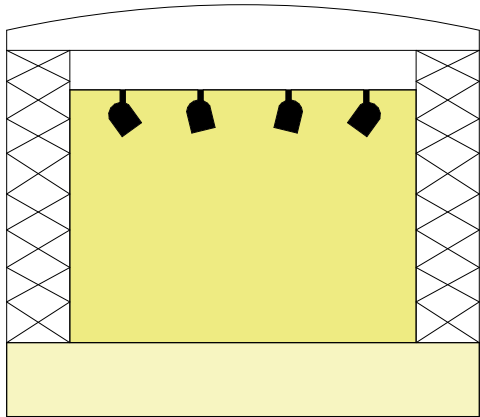


(fd, n.d.)

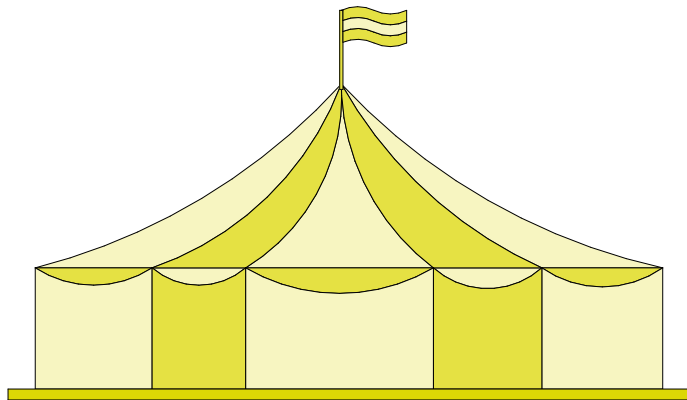
INDOOR TRANSLATION



STAGES EXPERIENCE

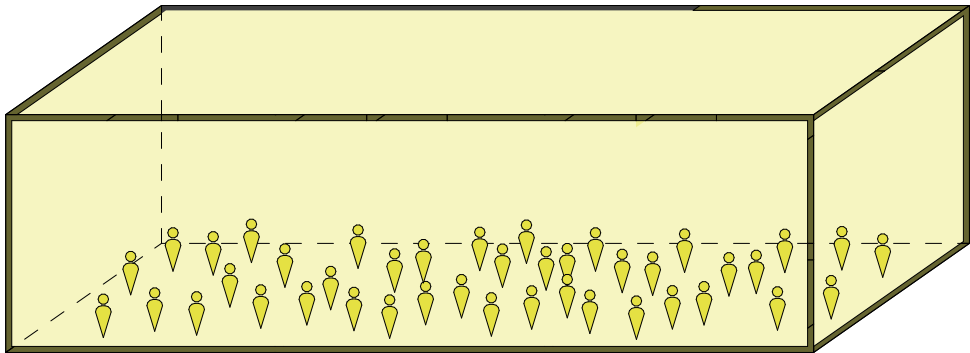


OUTDOOR STAGE

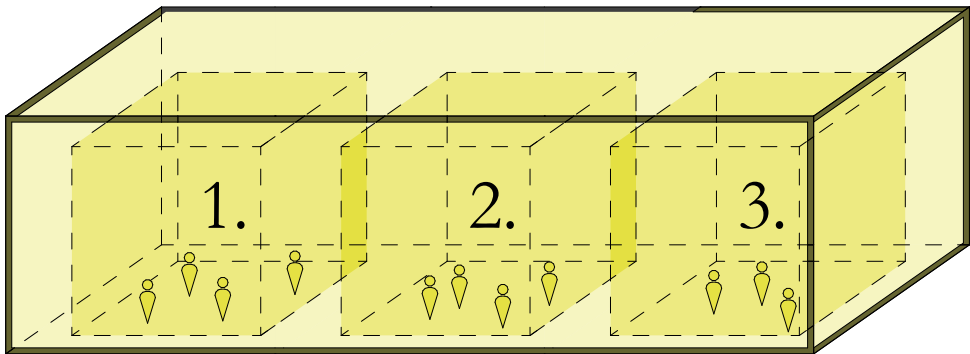


TENT STAGE

INDOOR TRANSLATION



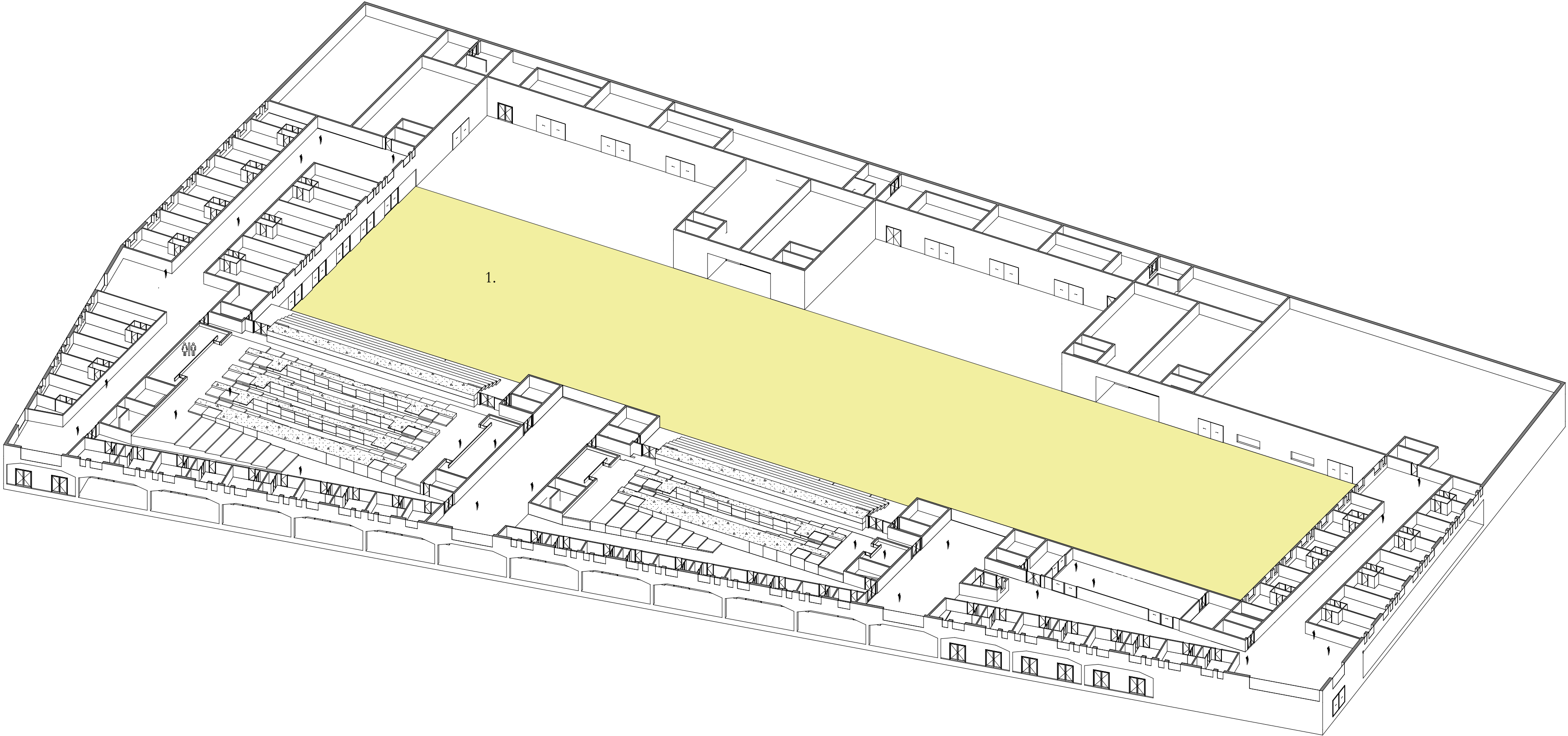
SINGLE SHOW



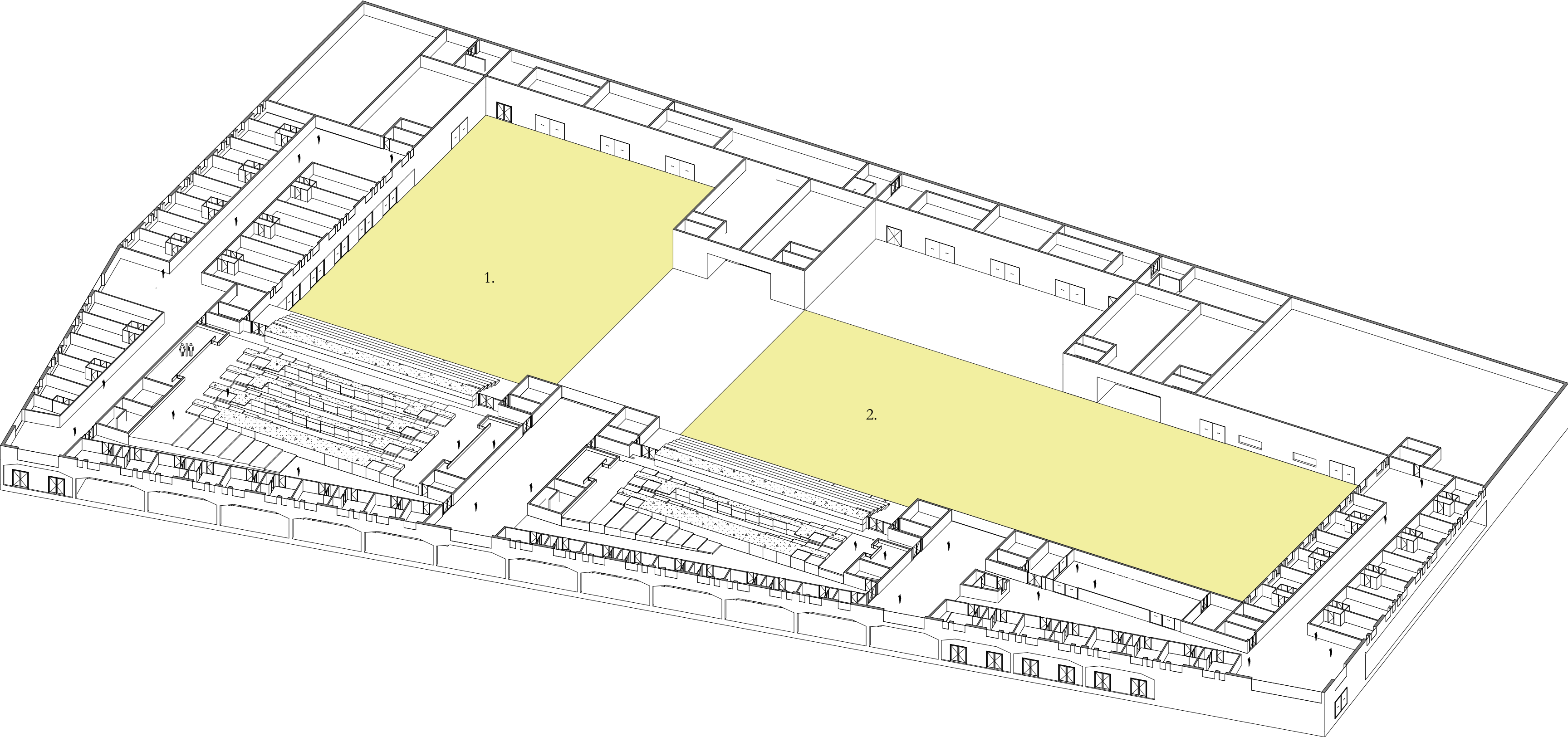
MULTIPLE SHOWS



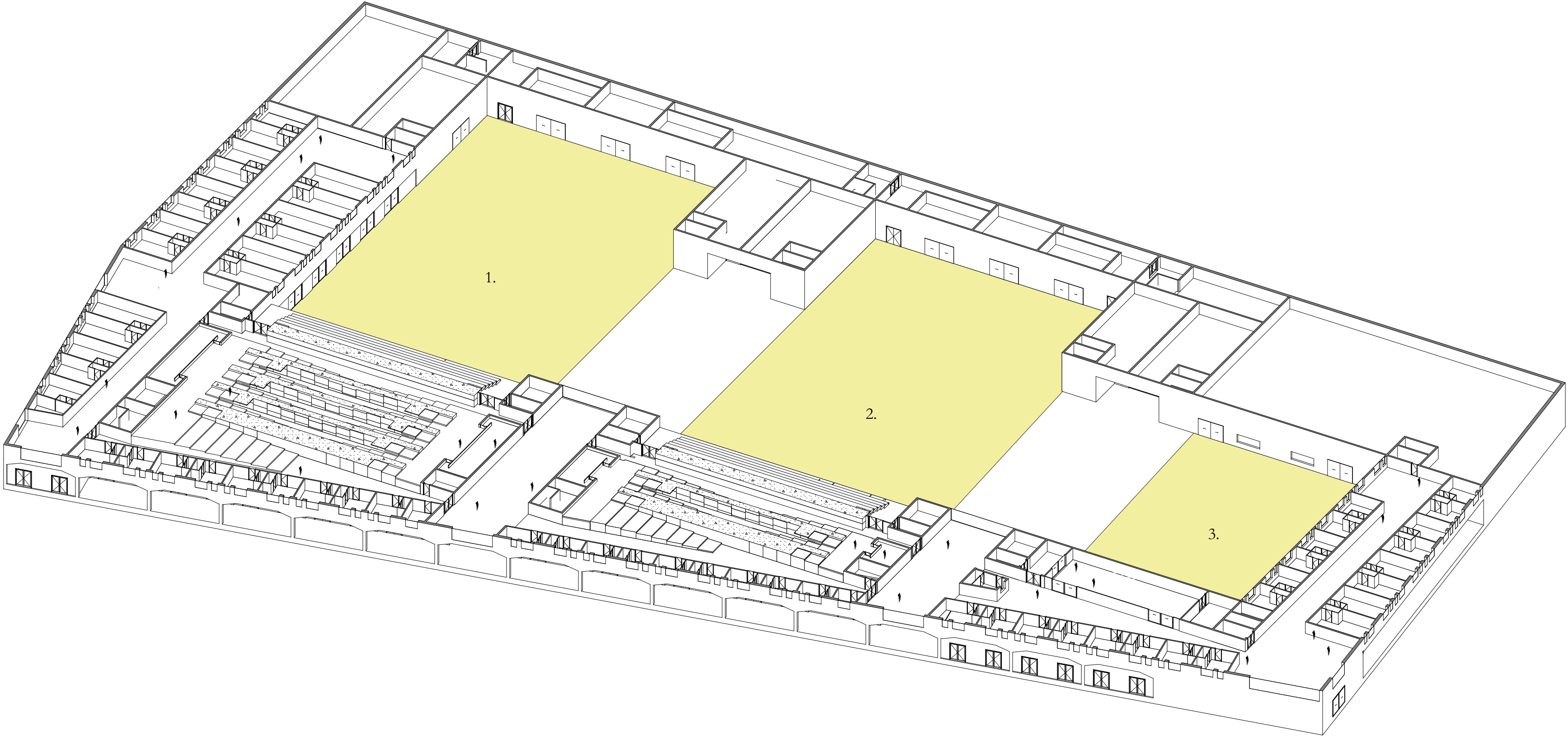
STAGE OVERVIEW



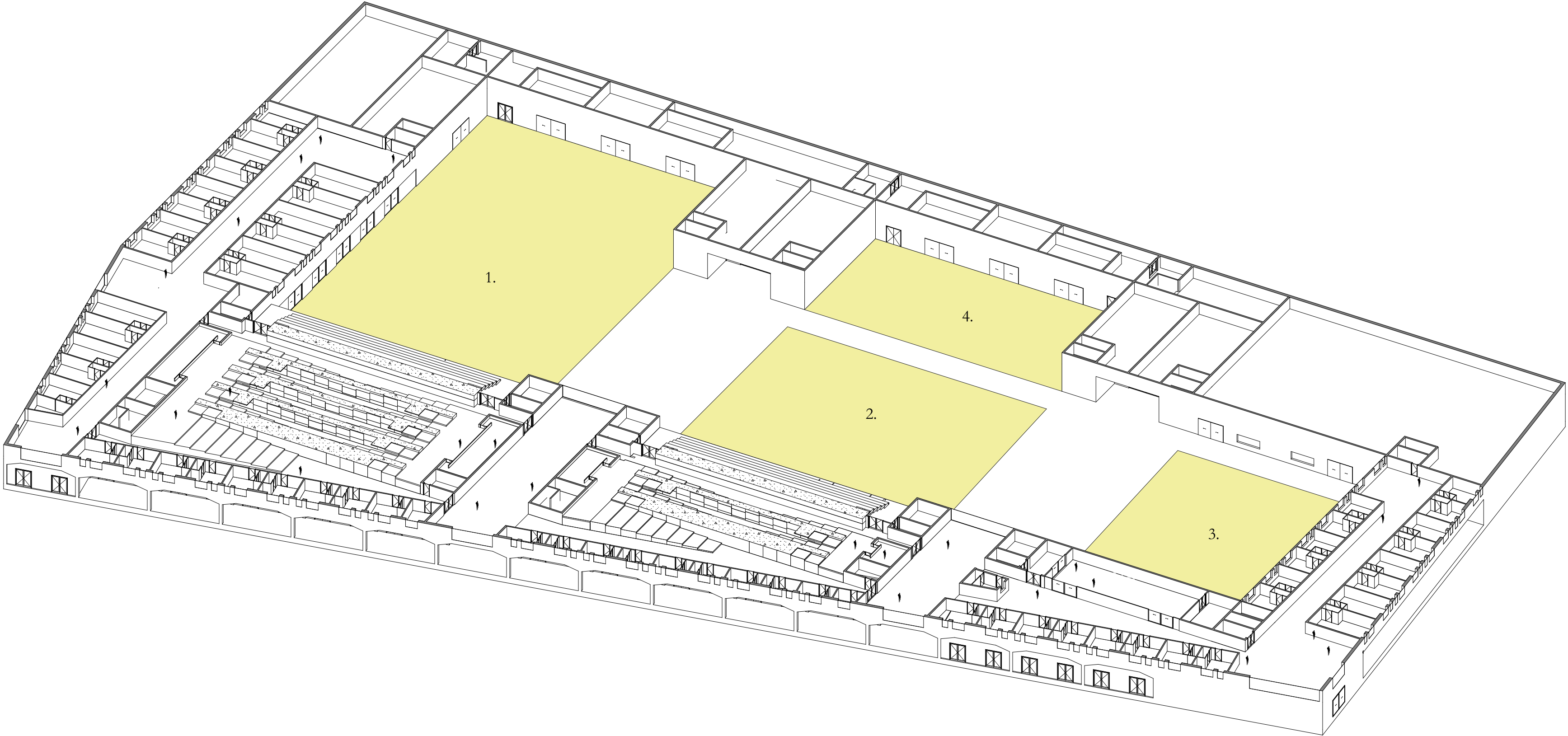
STAGE OVERVIEW



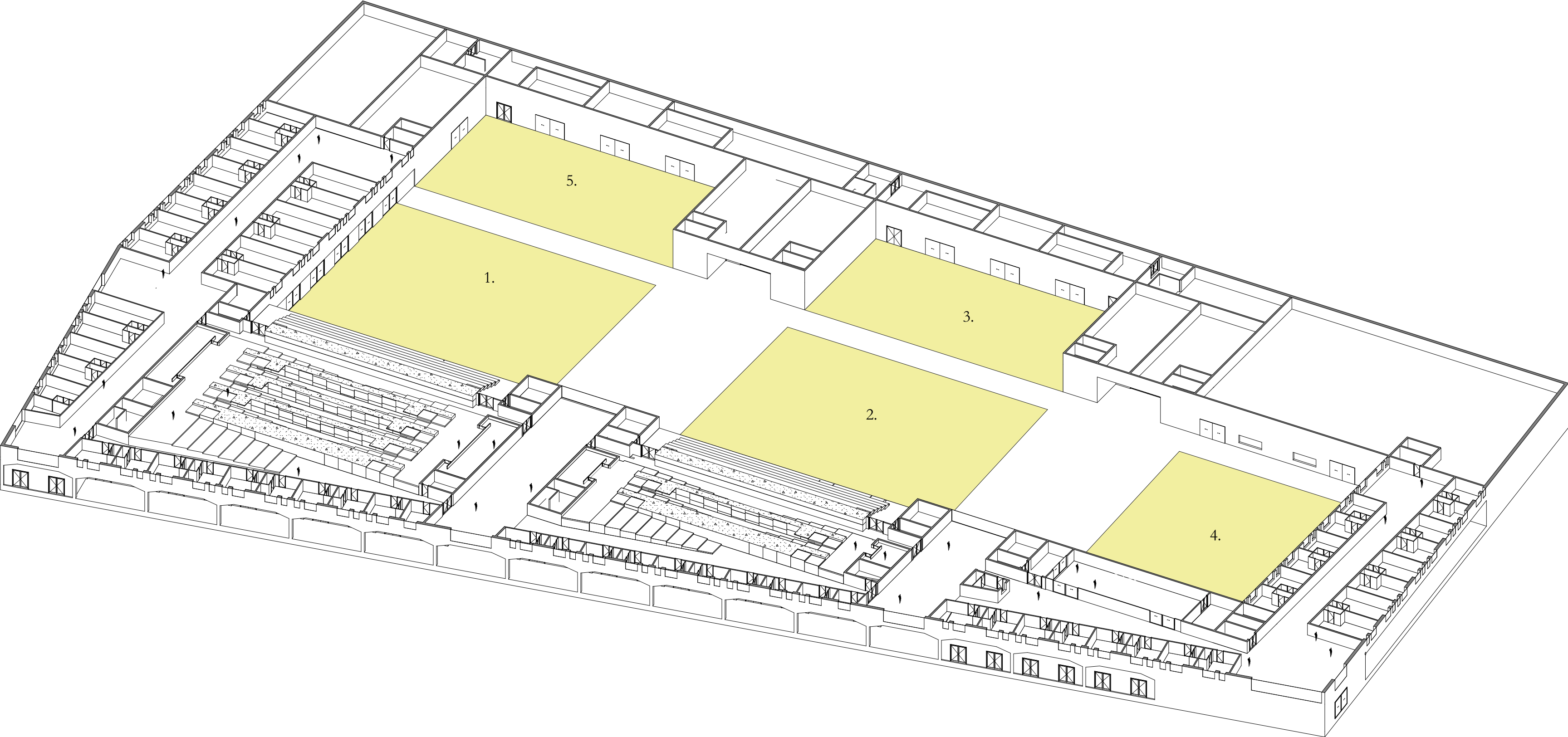
STAGE OVERVIEW



STAGE OVERVIEW

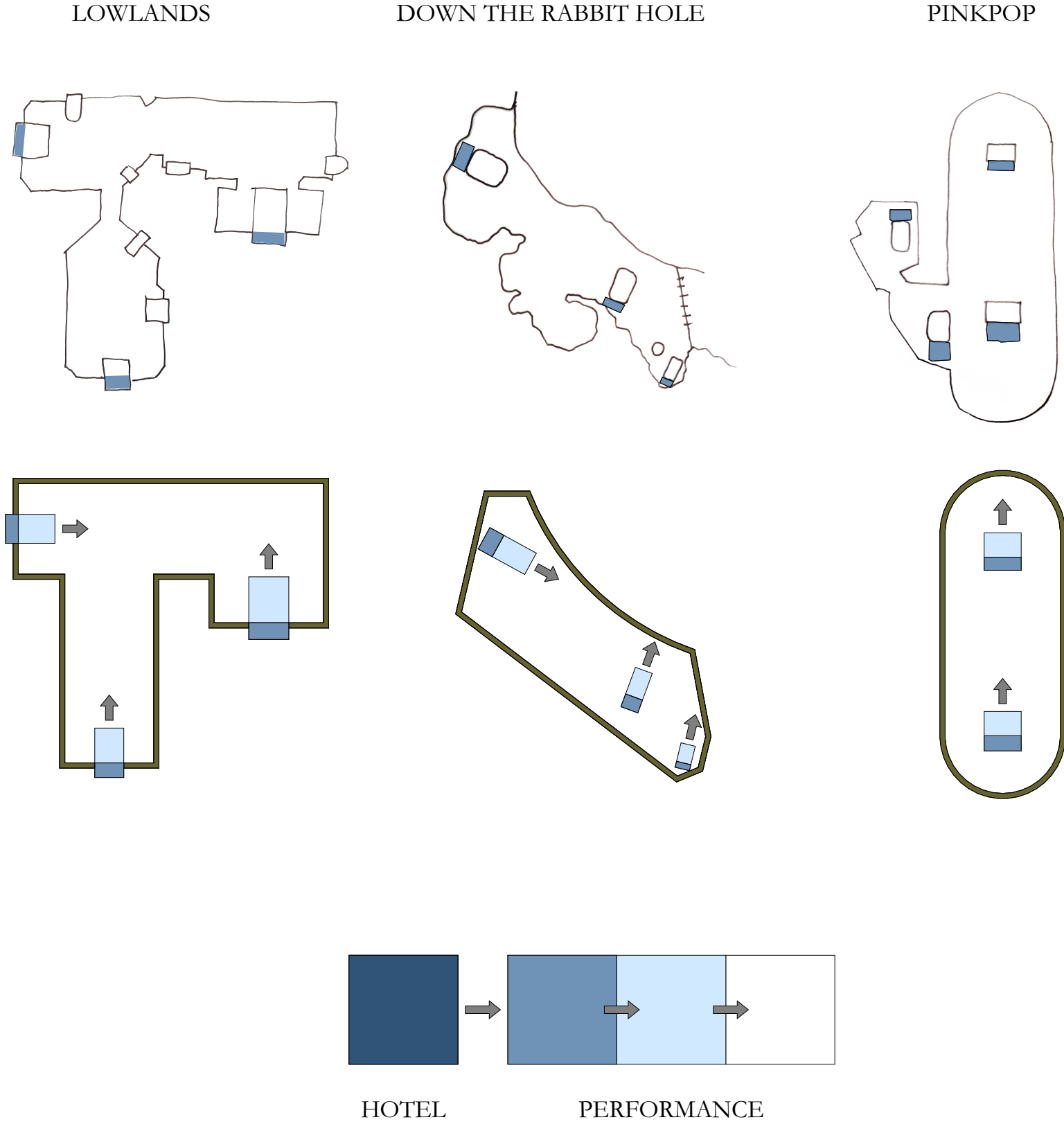


STAGE OVERVIEW

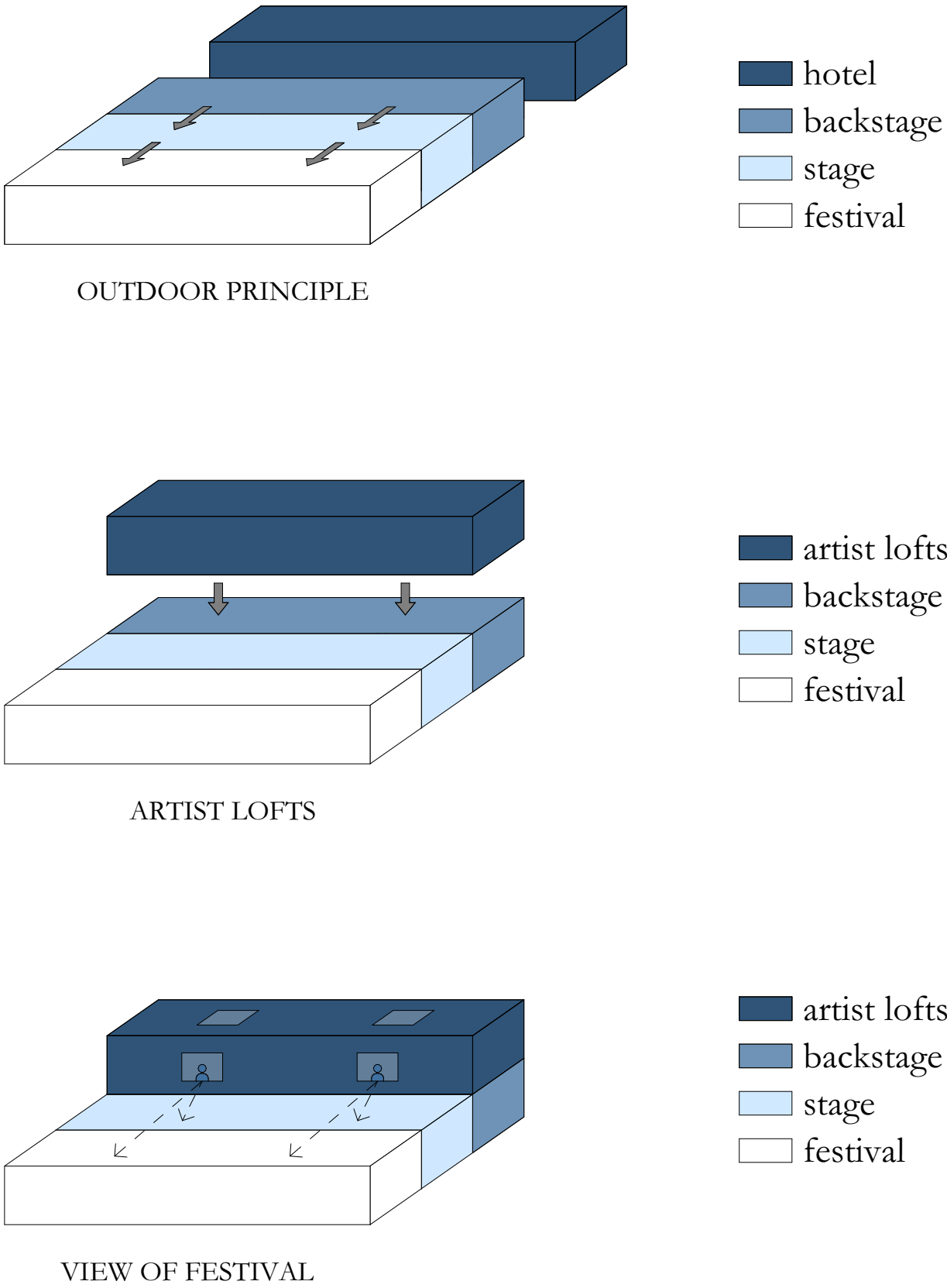


BACKSTAGE CONFIGURATION

- hotel
- backstage
- stage
- festival



INDOOR TRANSLATION

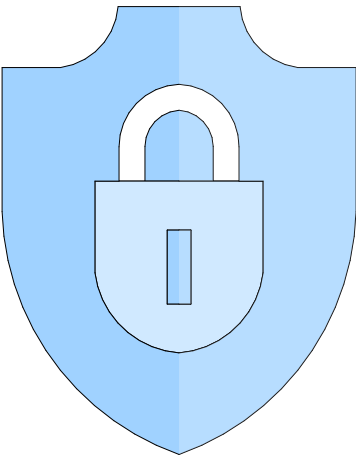


BACKSTAGE FUNCTION



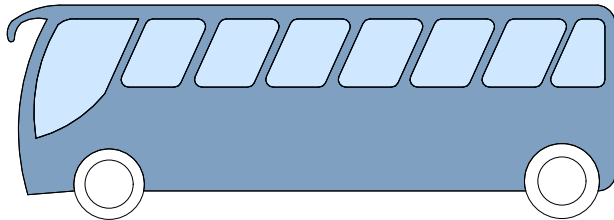
(Namdef, 2021)

INDOOR TRANSLATION

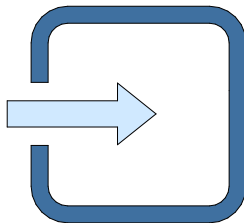


PRIVACY

BACKSTAGE EXPERIENCE



TOURBUS OR HOTEL

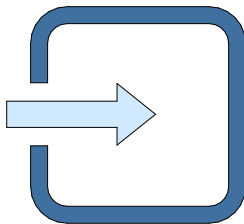


ARTIST ENTRANCE

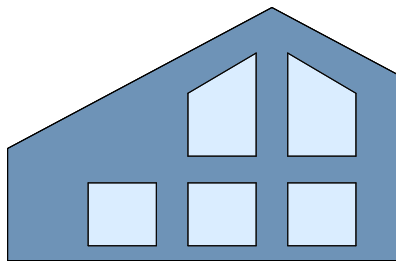


BACKSTAGE

INDOOR TRANSLATION



ARTIST ENTRANCE



ARTIST LOFT

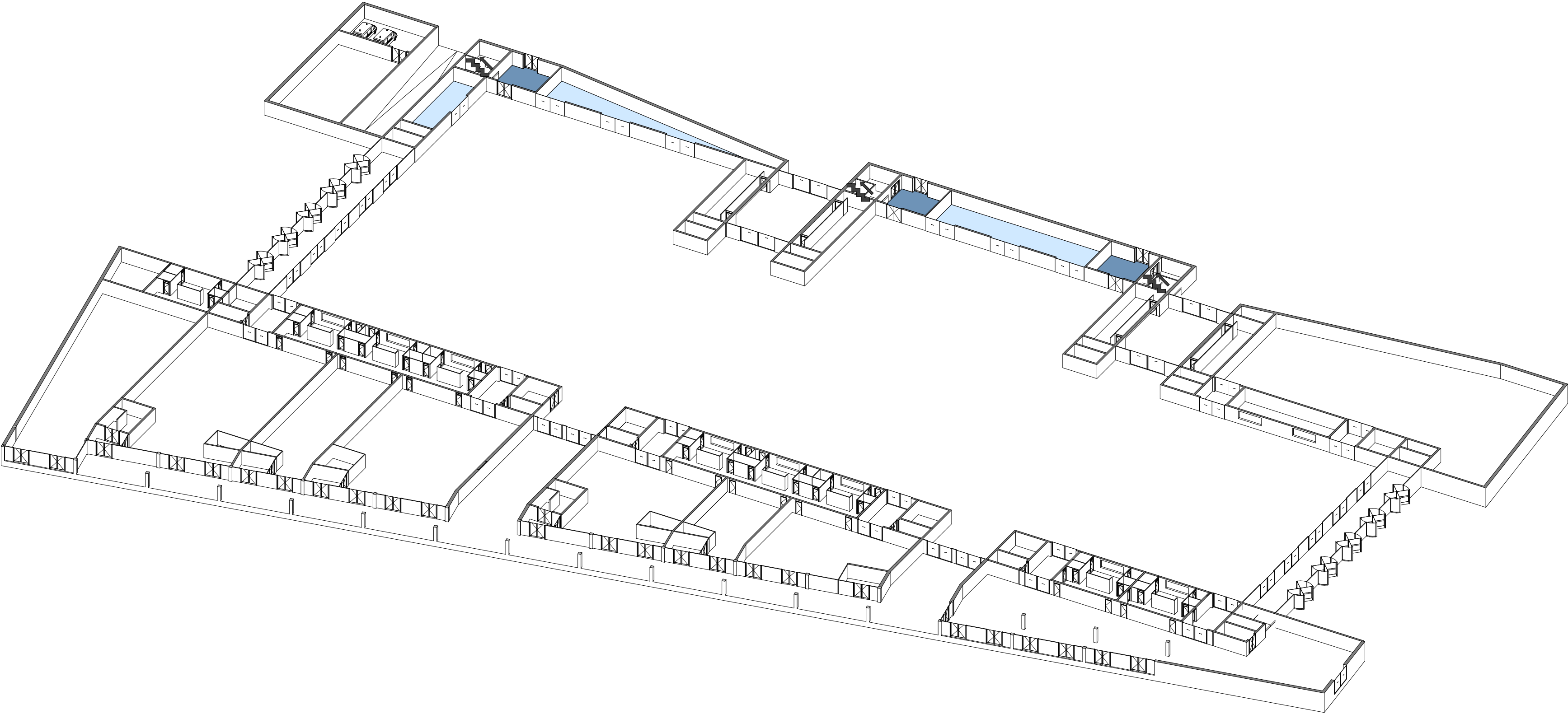


BACKSTAGE



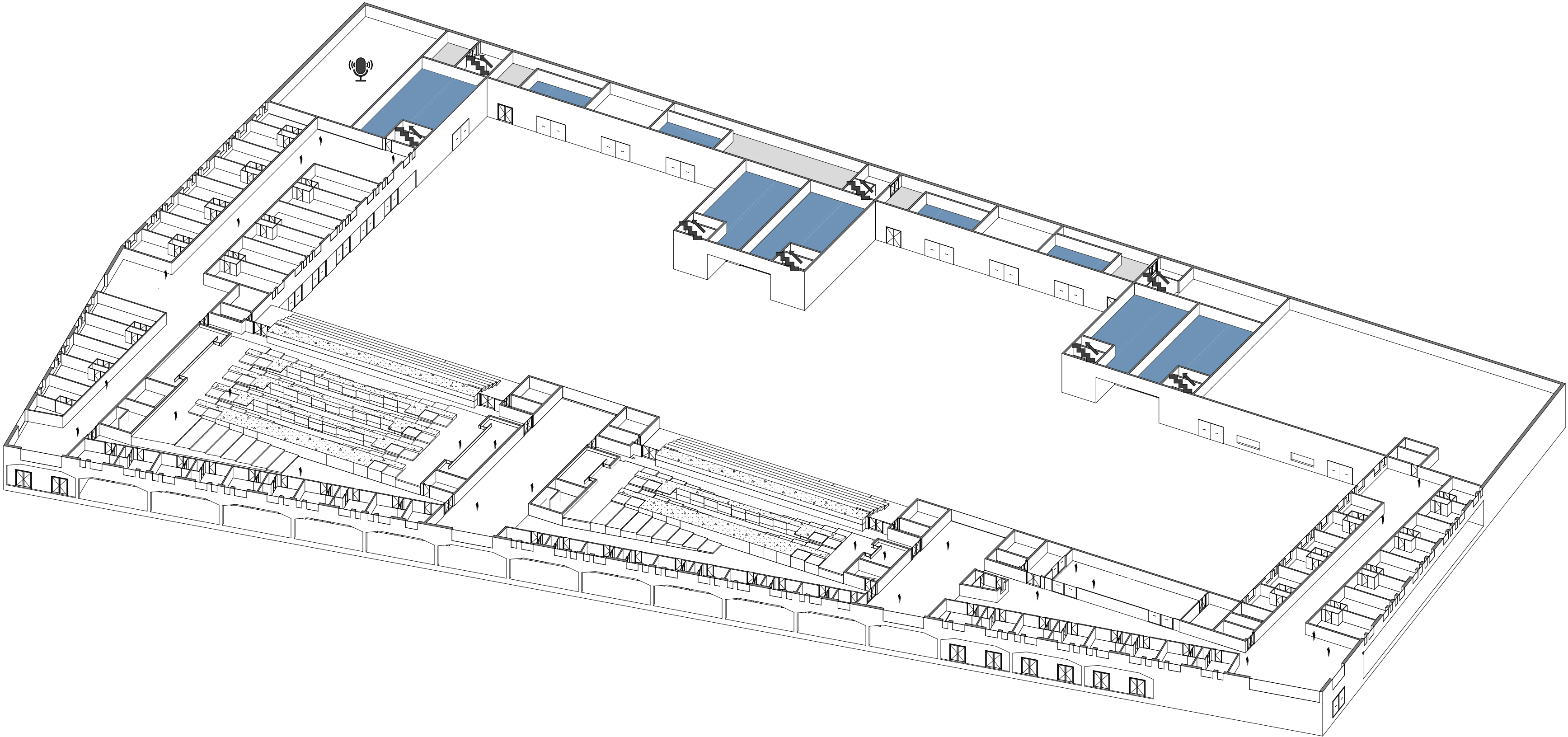
BACKSTAGE OVERVIEW

- artist entrance
- storage
- stairwell



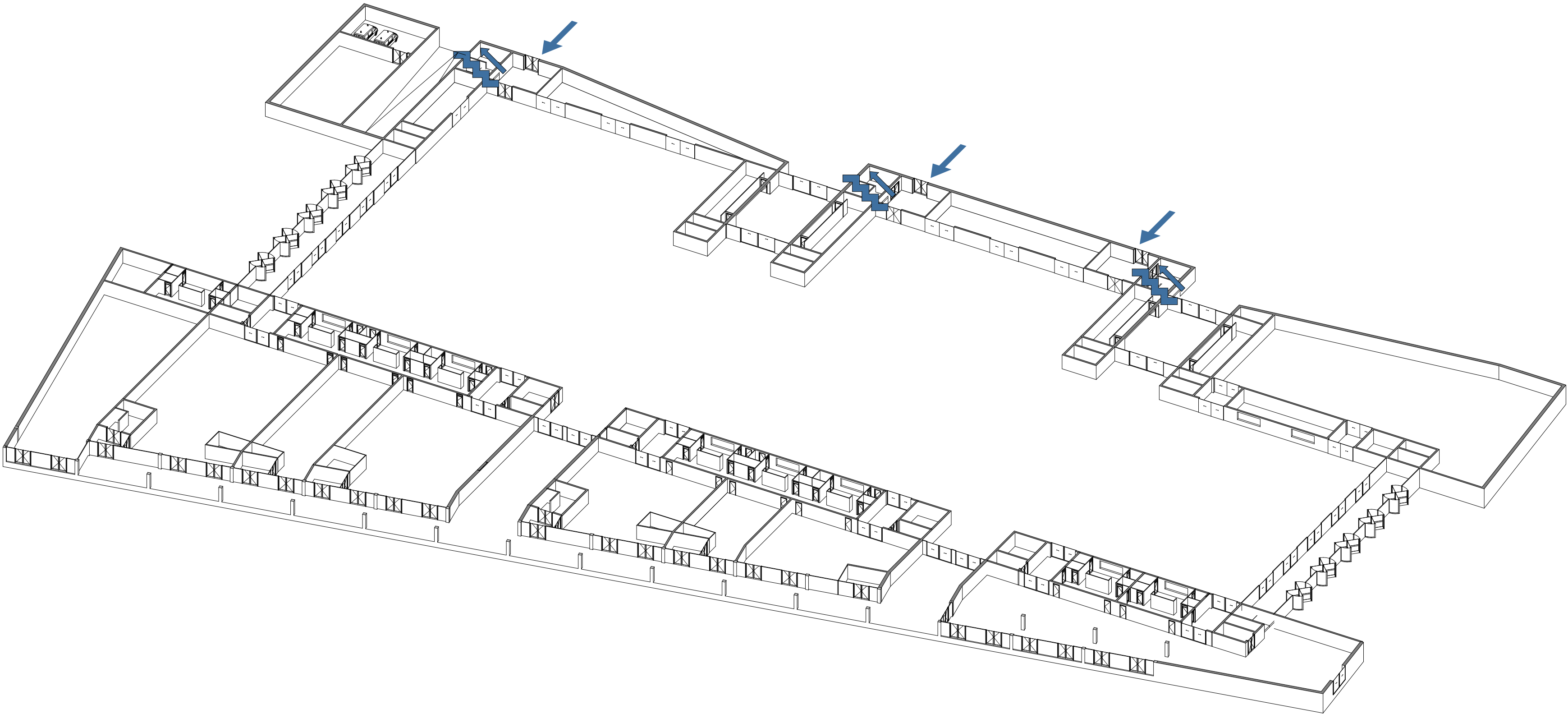
BACKSTAGE OVERVIEW

- backstage
- hallway
- recording studio



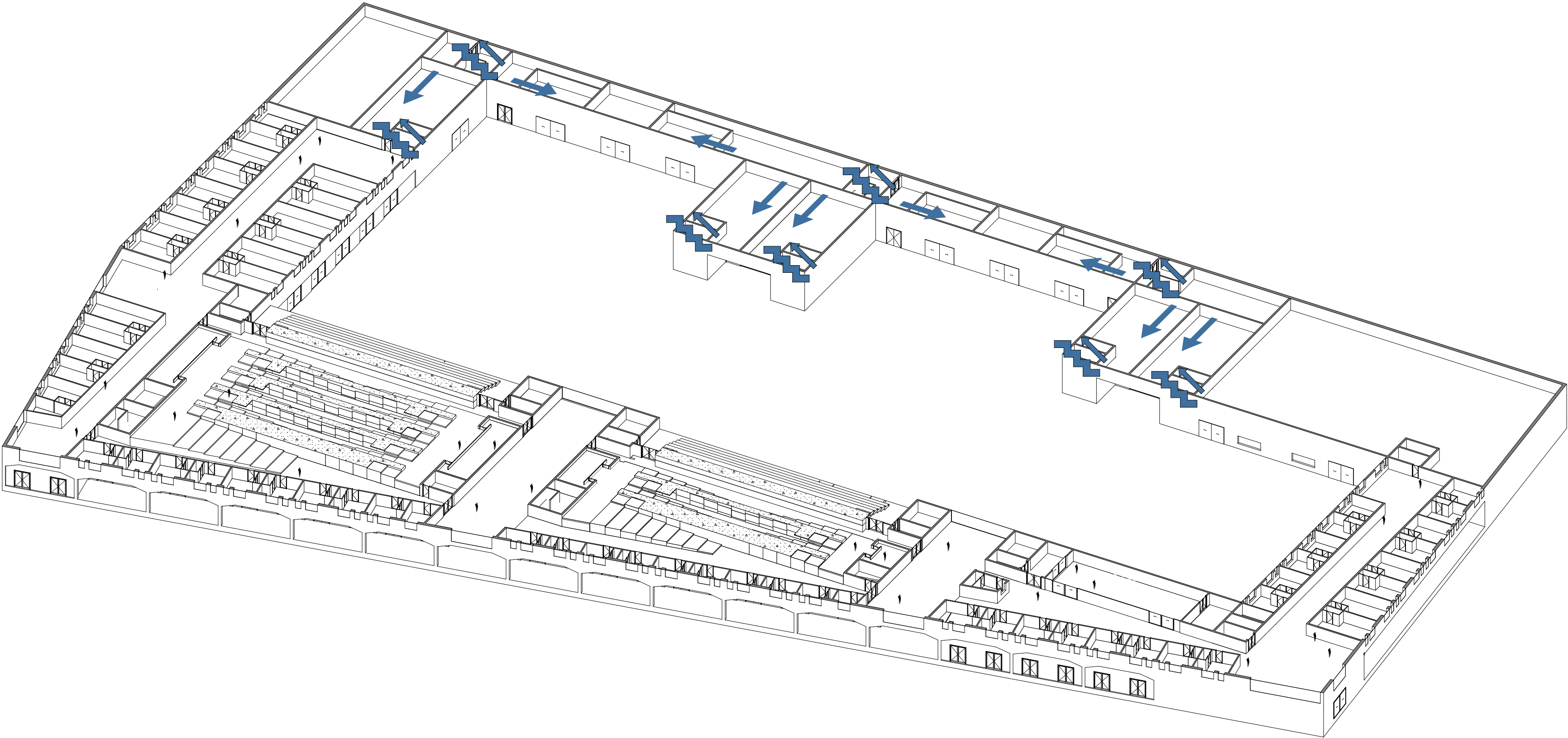
Interior routing

- artist
- logistics
- visitor



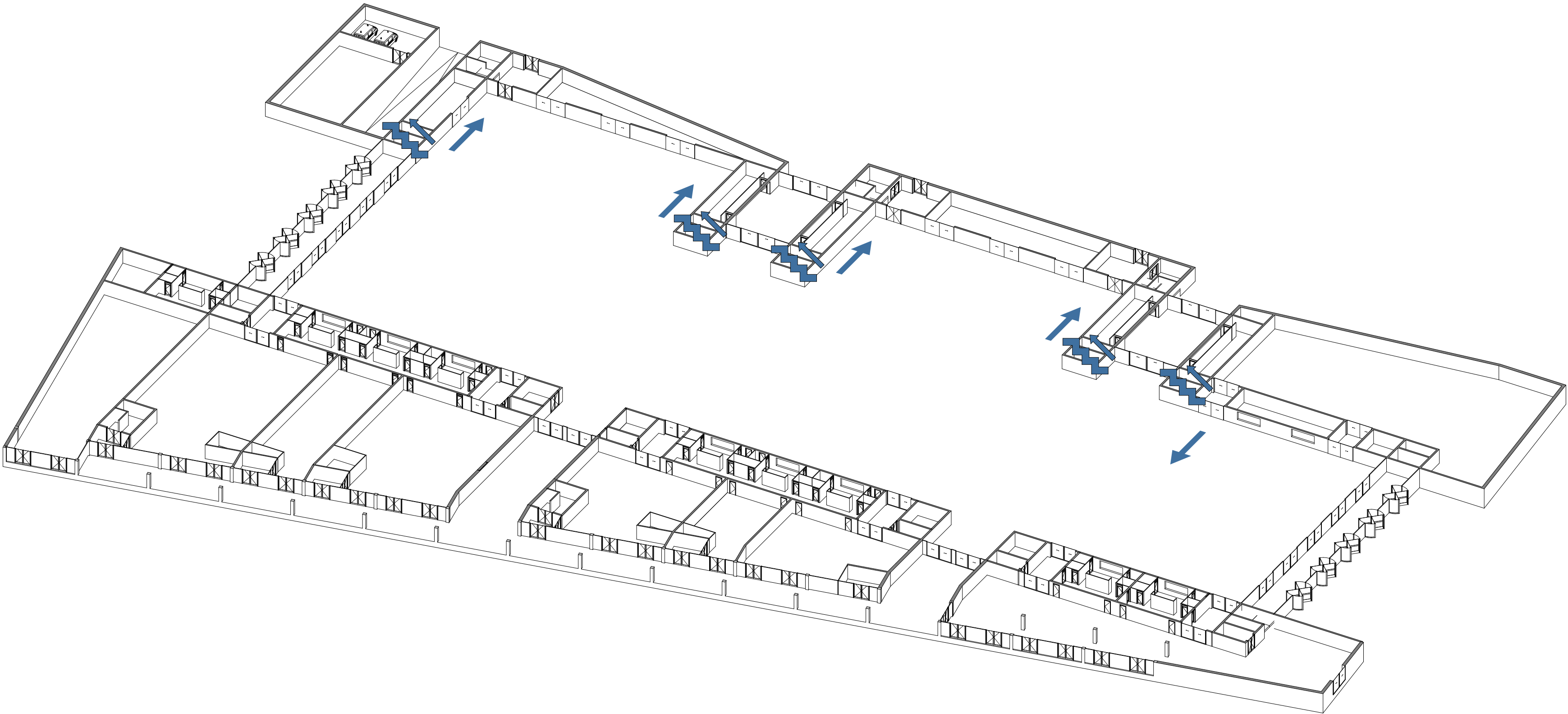
Interior routing

- artist
- logistics
- visitor



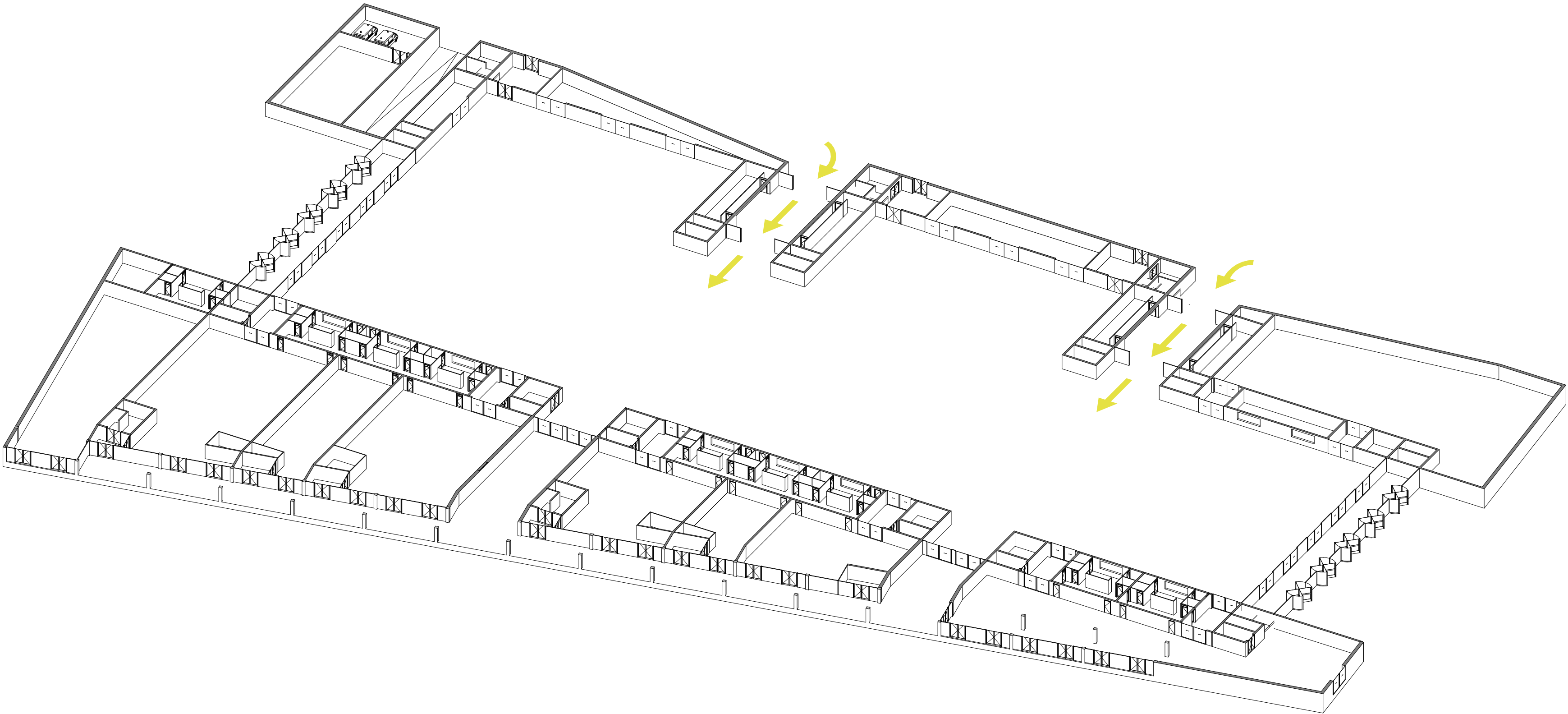
Interior routing

- artist
- logistics
- visitor



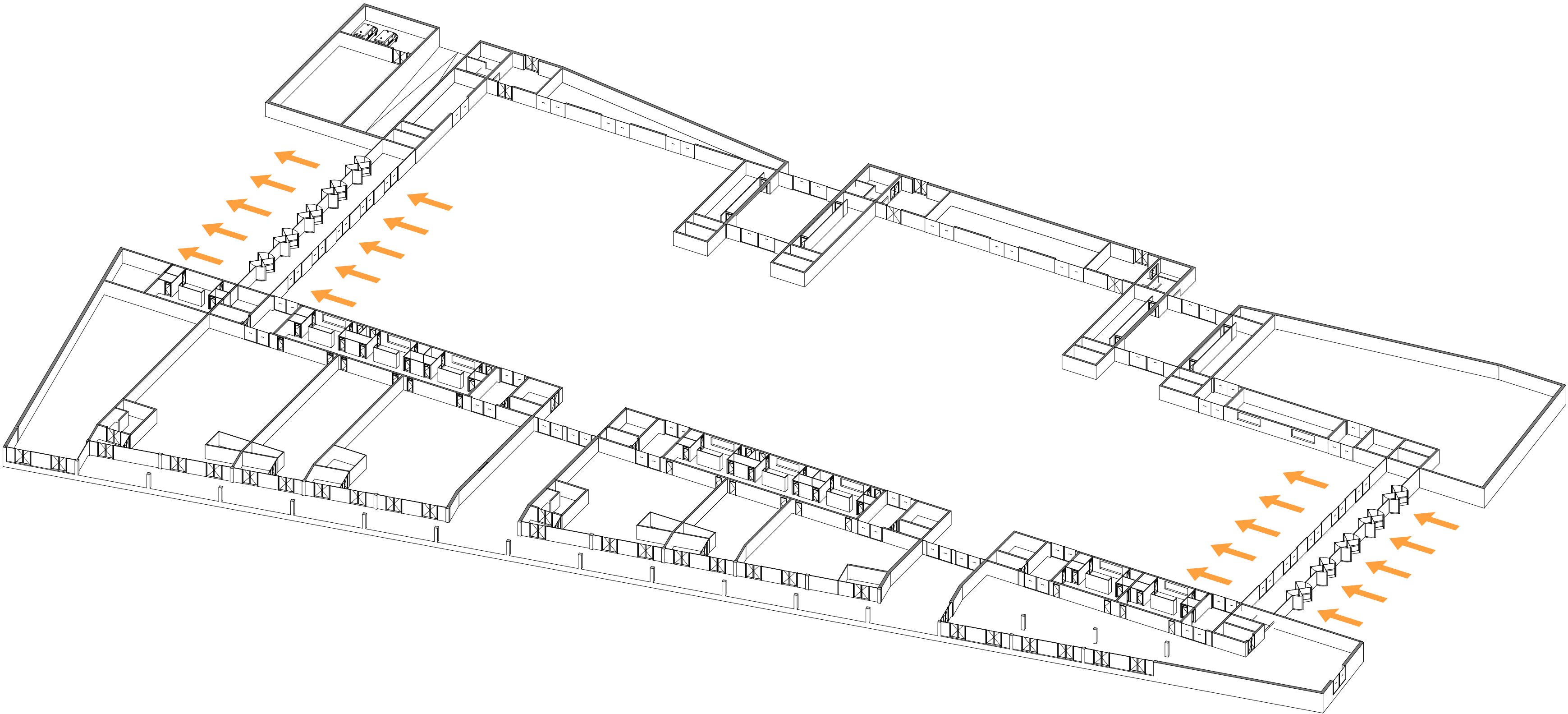
Interior routing

- artist
- logistics
- visitor



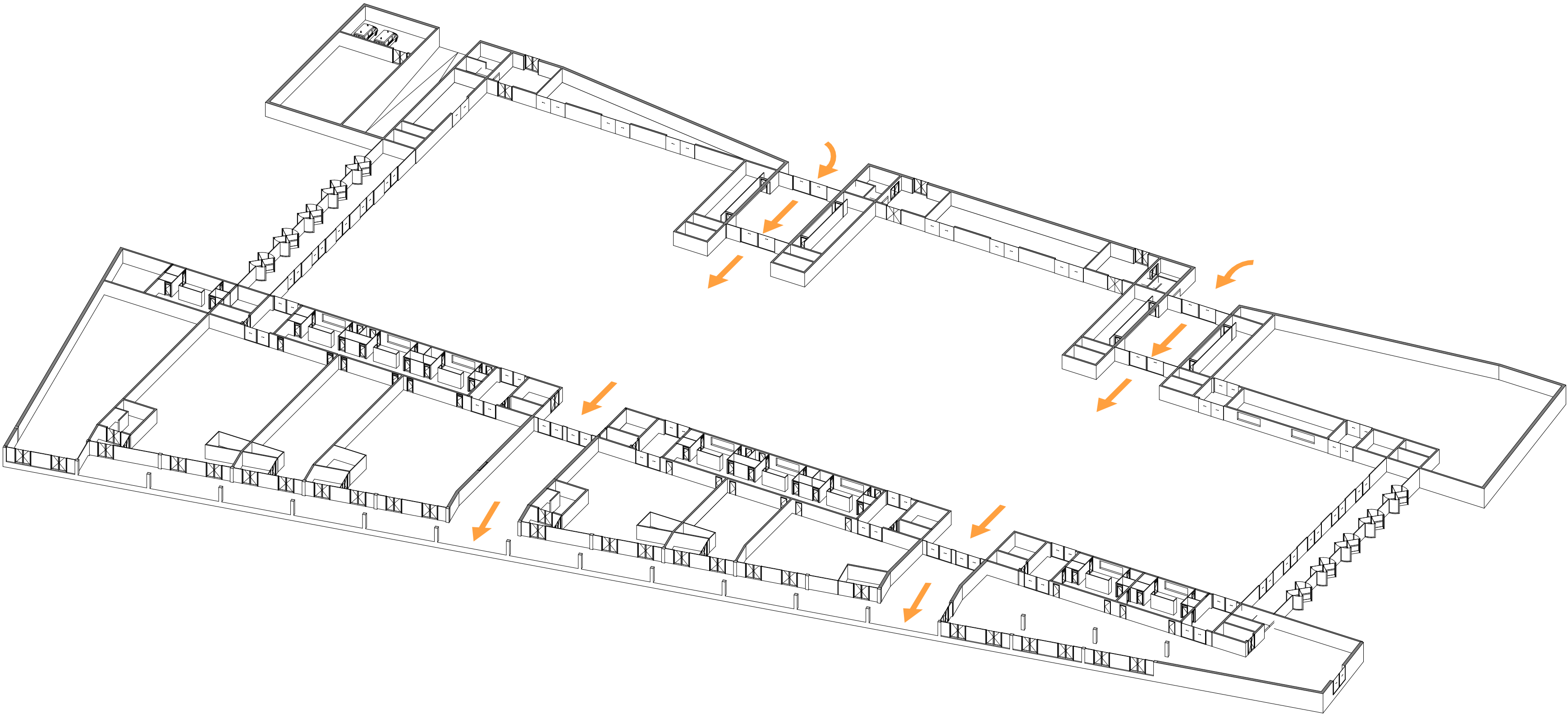
Interior routing

- artist
- logistics
- visitor



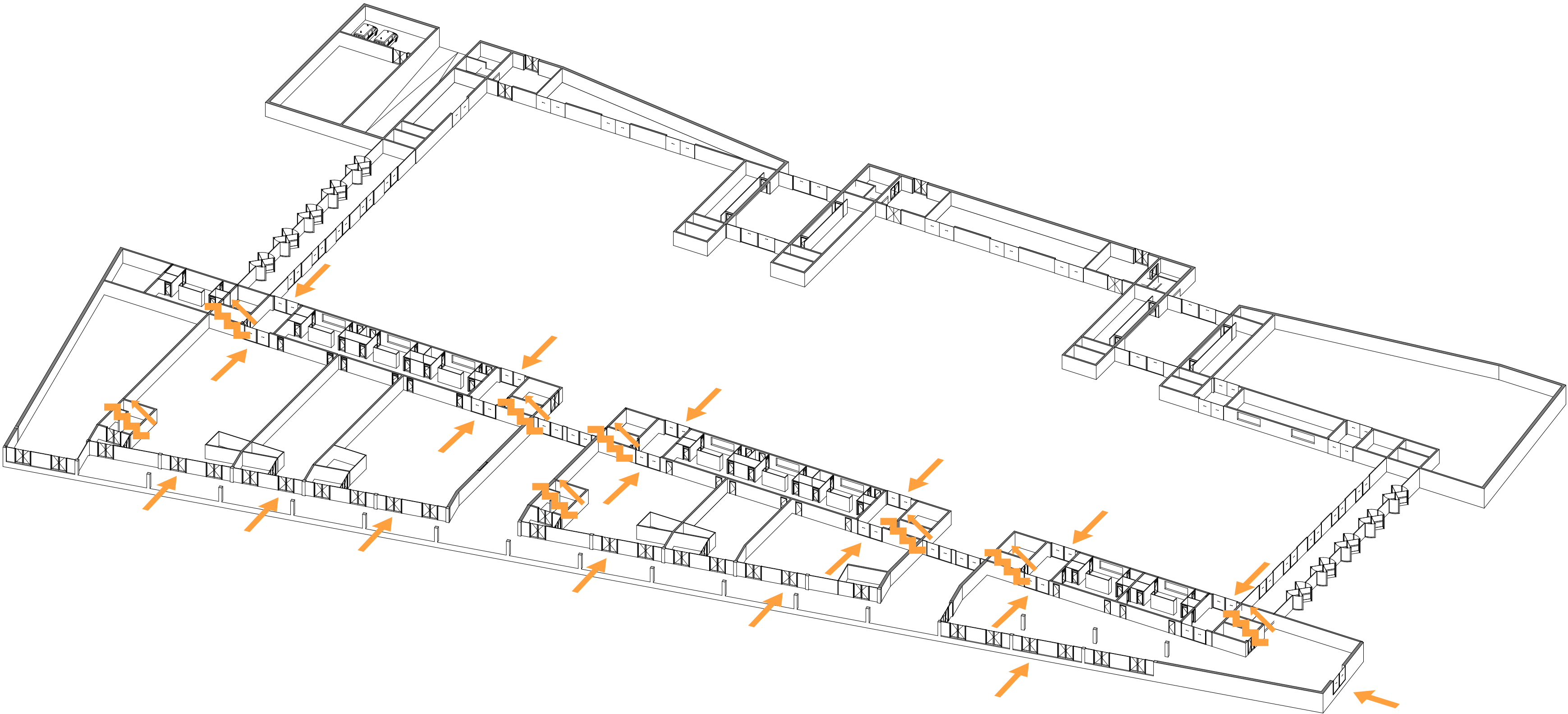
Interior routing

- artist
- logistics
- visitor



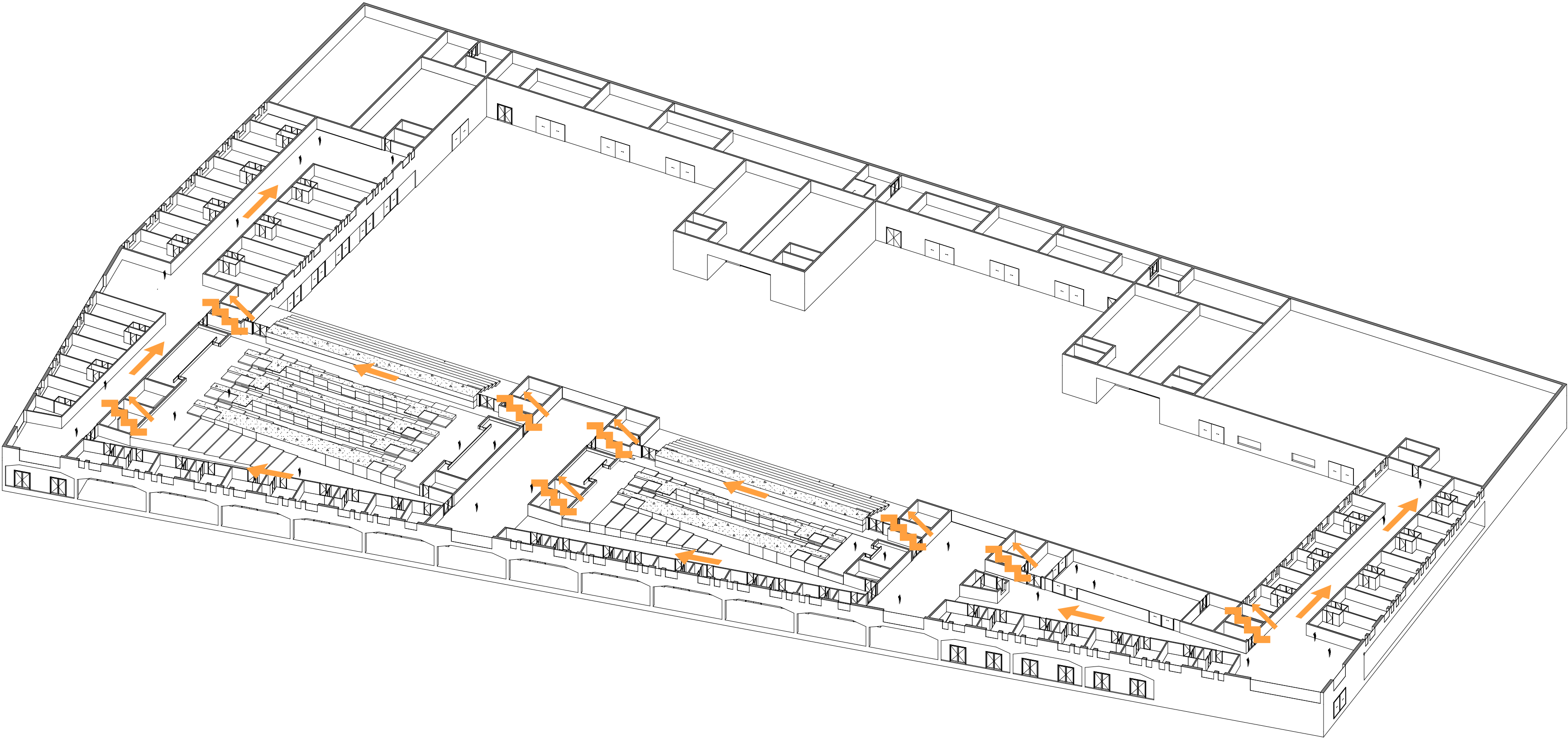
Interior routing

- artist
- logistics
- visitor



Interior routing

- artist
- logistics
- visitor



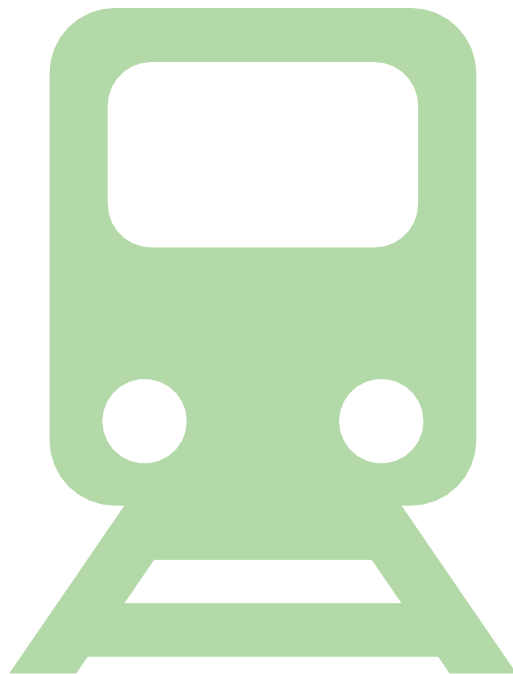
OUTDOOR FESTIVAL



cars

20000 visitors
43% travel by car (1 car per 3 visitors)
= 2867 parking spots

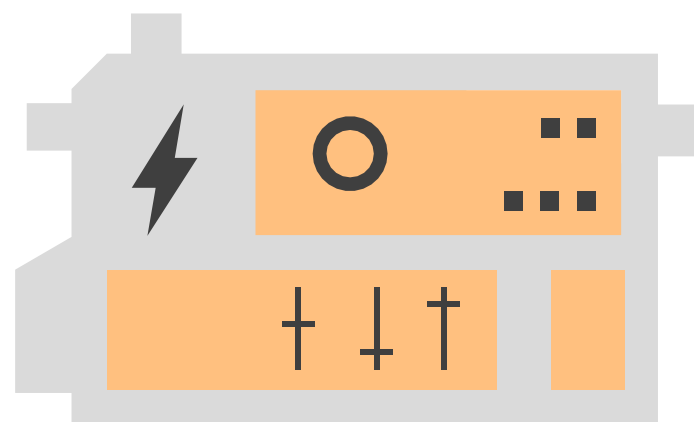
THE FESTIVAL MACHINE



bikes and public transport

20000 visitors
6% visitors by car (1 car per 3 visitors)
400 parking spots

OUTDOOR FESTIVAL

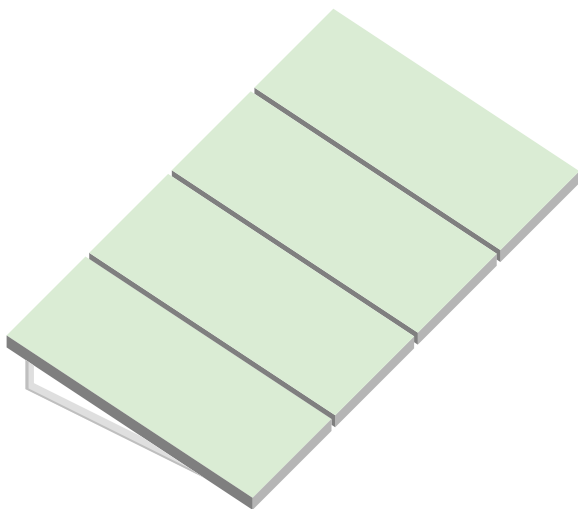


diesel generators

12 diesel generators
11000 liters per festival

Oxxio. (2015, June 4). Van kilowatt naar knalfeest (+ win festivaltickets). Retrieved June 15, 2022, from <https://www.oxio.nl/over/nieuws/van-kilowatt-naar-knalfeest-plus-win-festivaltickets>

THE FESTIVAL MACHINE

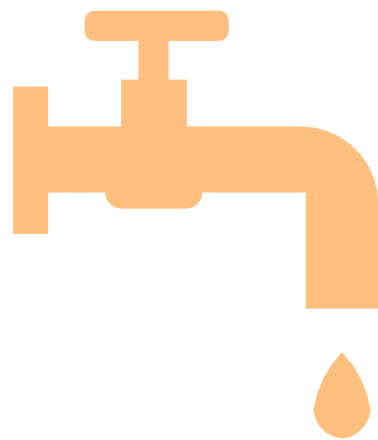


solar panels

festival needs 30000 mw every week
 $197372 \text{ kw} = 197 \text{ mw}$
 $197 \times 24 \times 7 = 33096 \text{ mw}$

Rewinds, B. (2022, May 17). How do you power a major music festival? Bellwood Rewinds. <https://www.bellwoodrewinds.co.uk/power-major-music-festival/>

OUTDOOR FESTIVAL



water usage

20000 visitors
14 liter per visitor = 0,014 m3
= 280 m3 per festival

THE FESTIVAL MACHINE



rainwater harvesting

Per m2 = 650 liters per year
Roof = 23365,7 m2 = 15187,7 m3 usable water per year
15187,7: 52 = 292 m3 per week (1 festival)

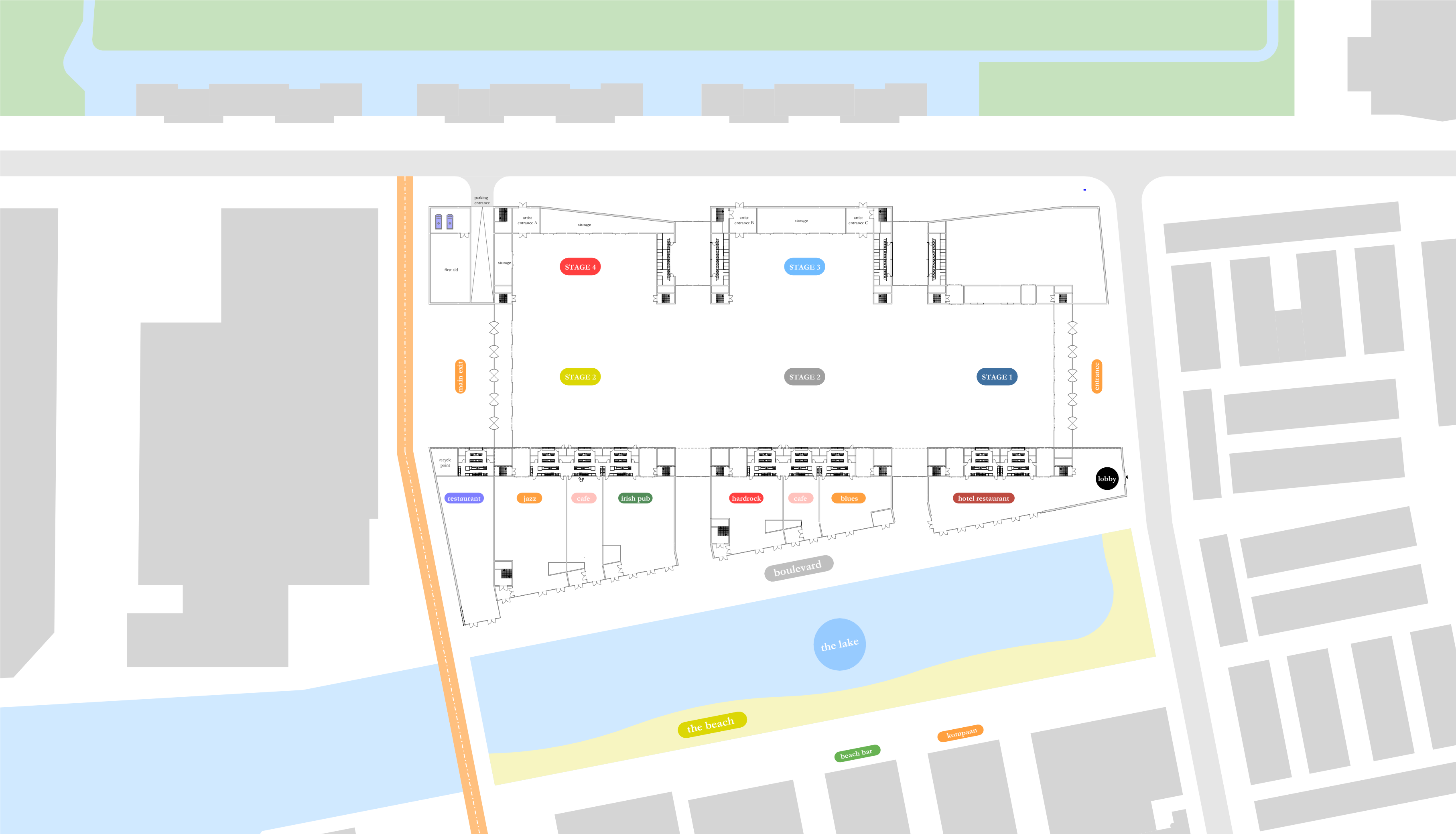
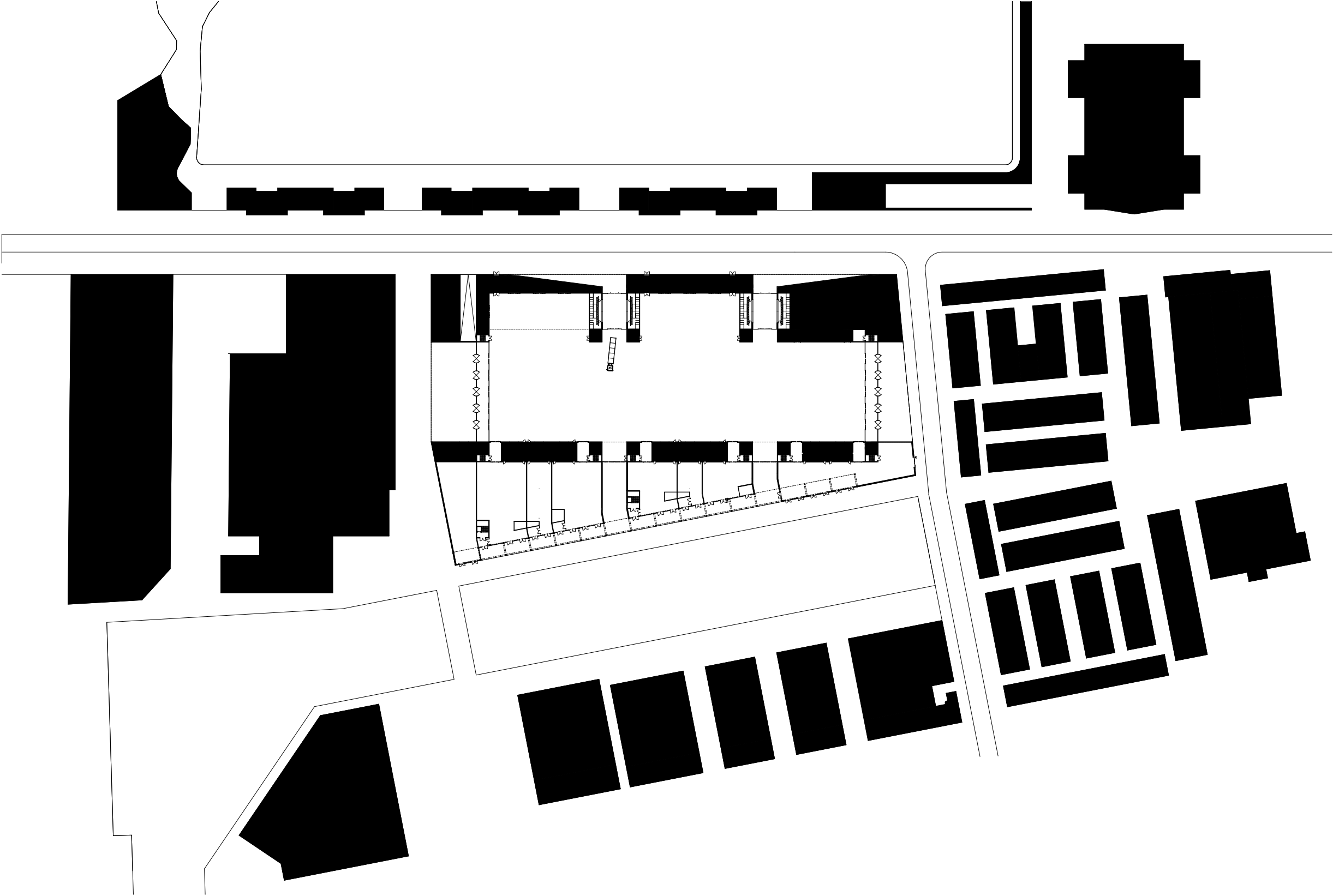
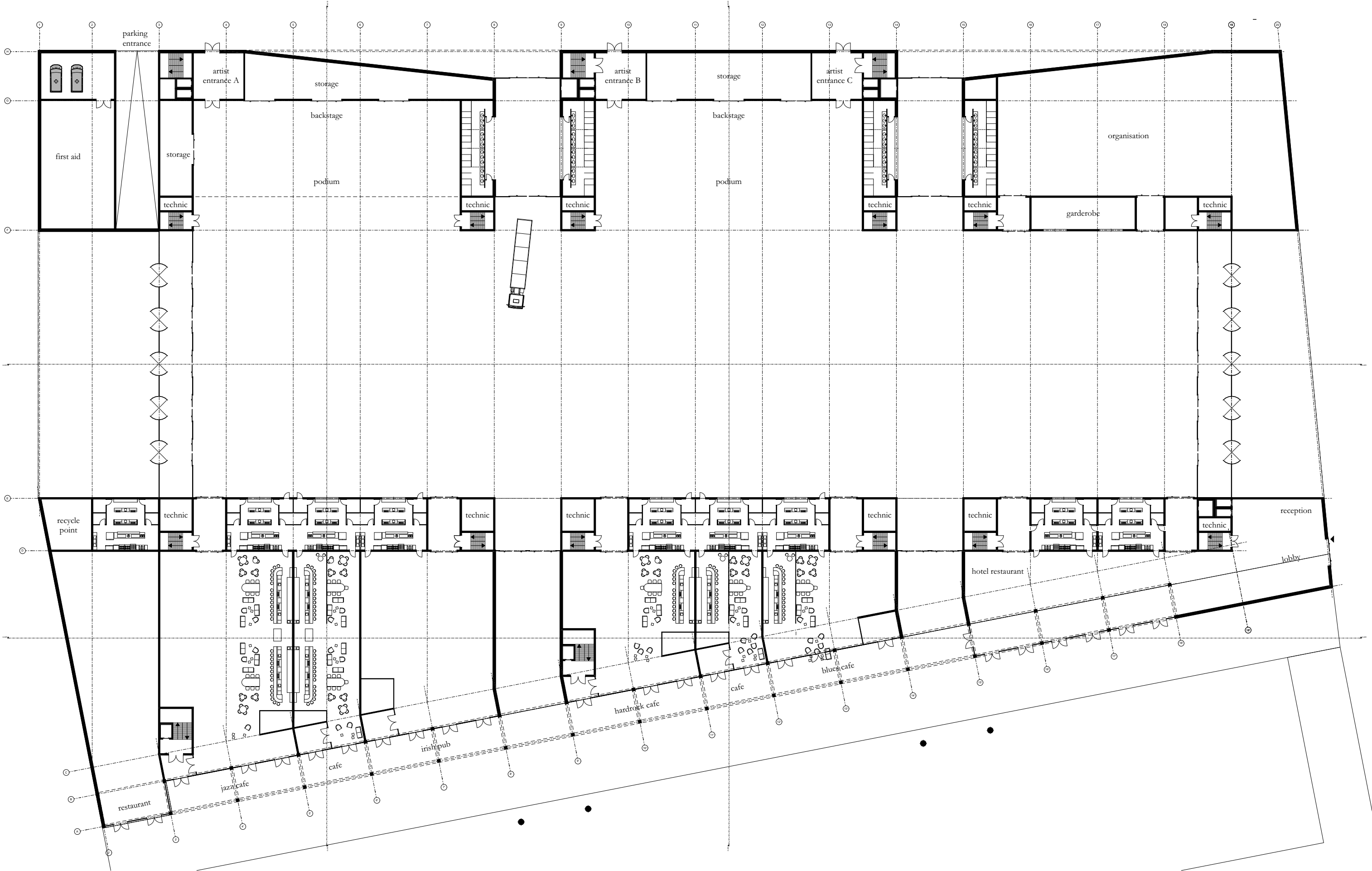


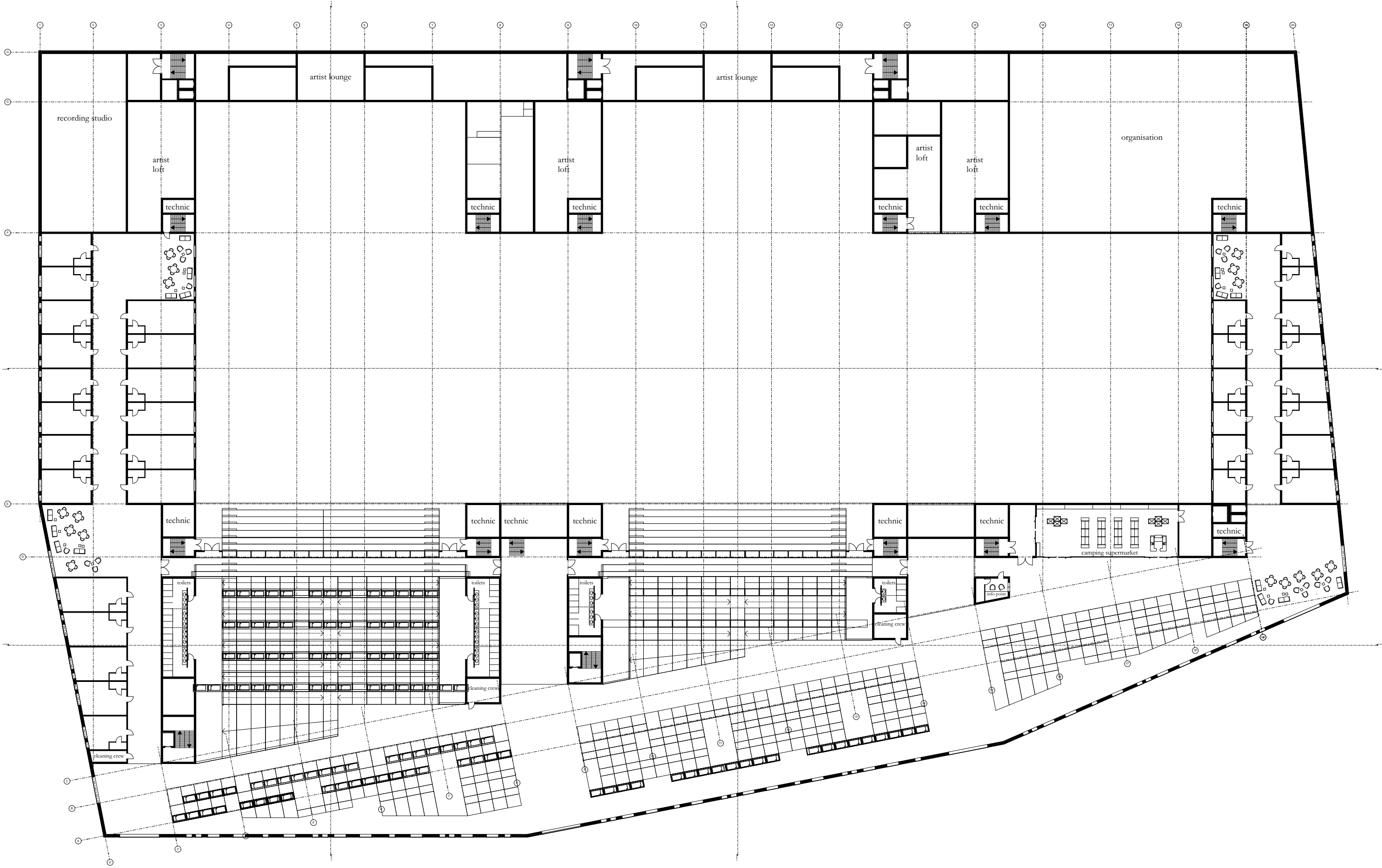
Figure ground plan



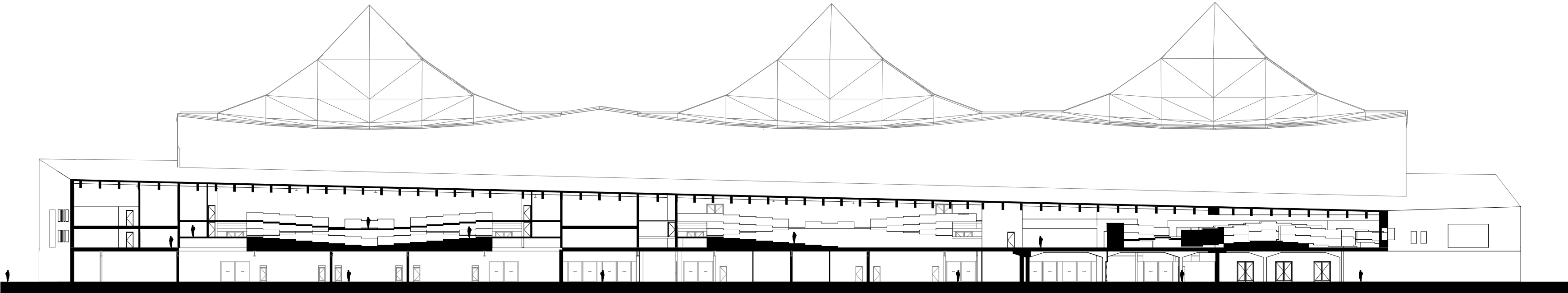
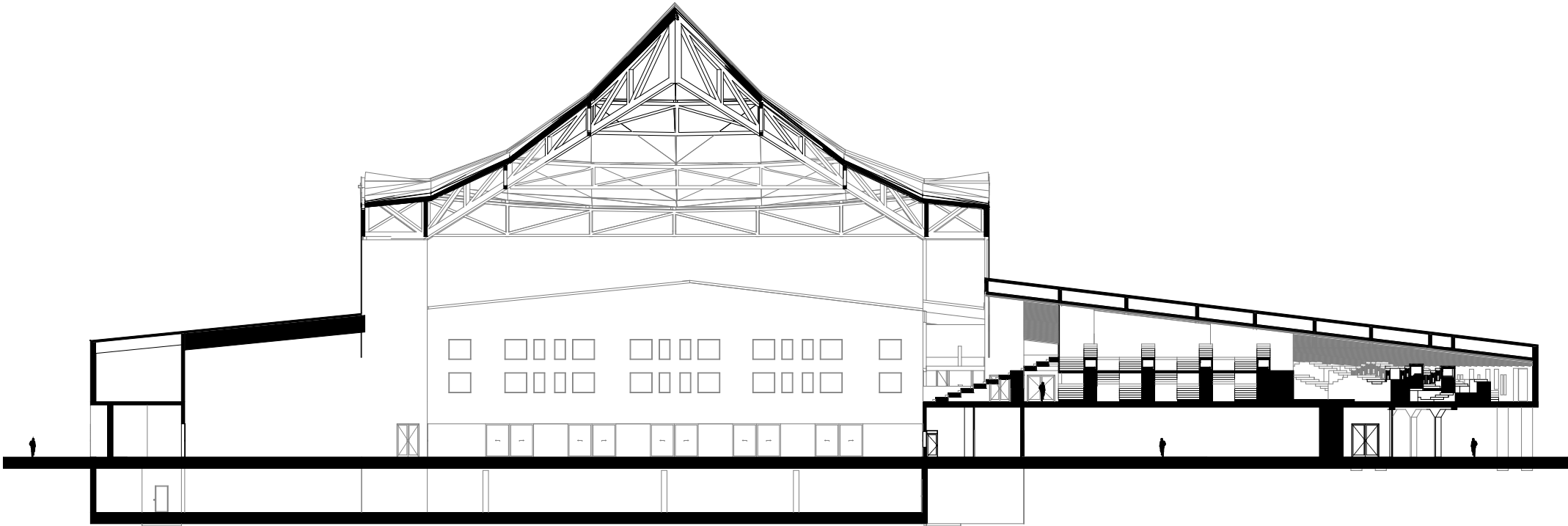
Ground floor



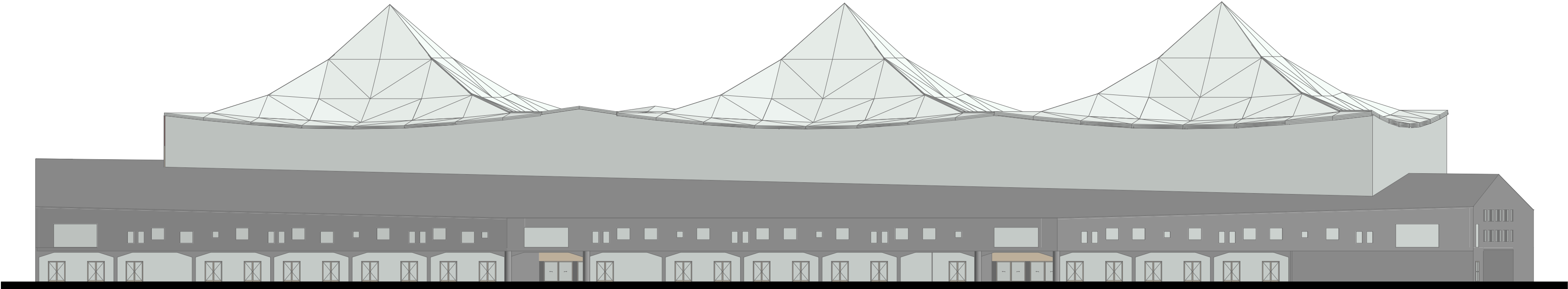
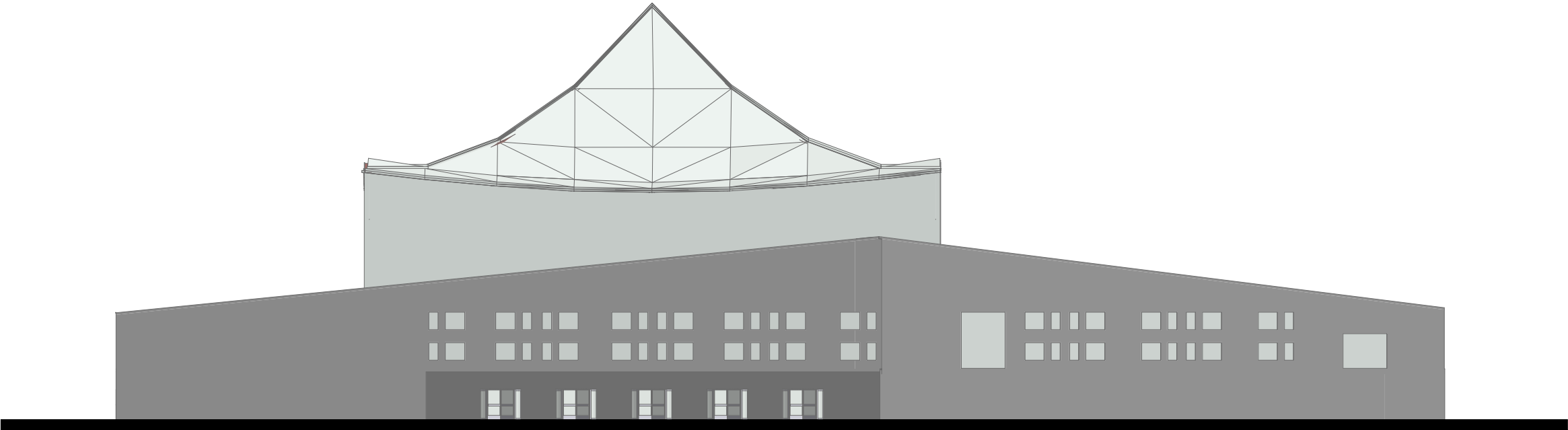
First floor



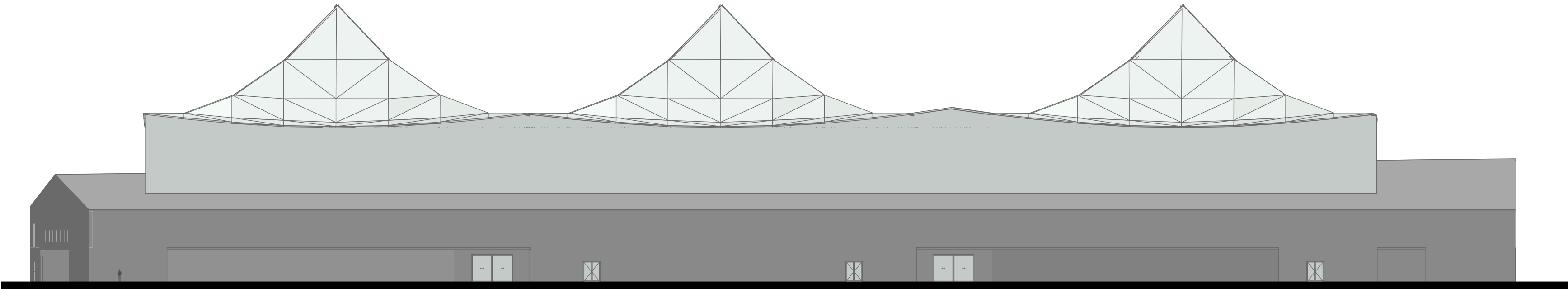
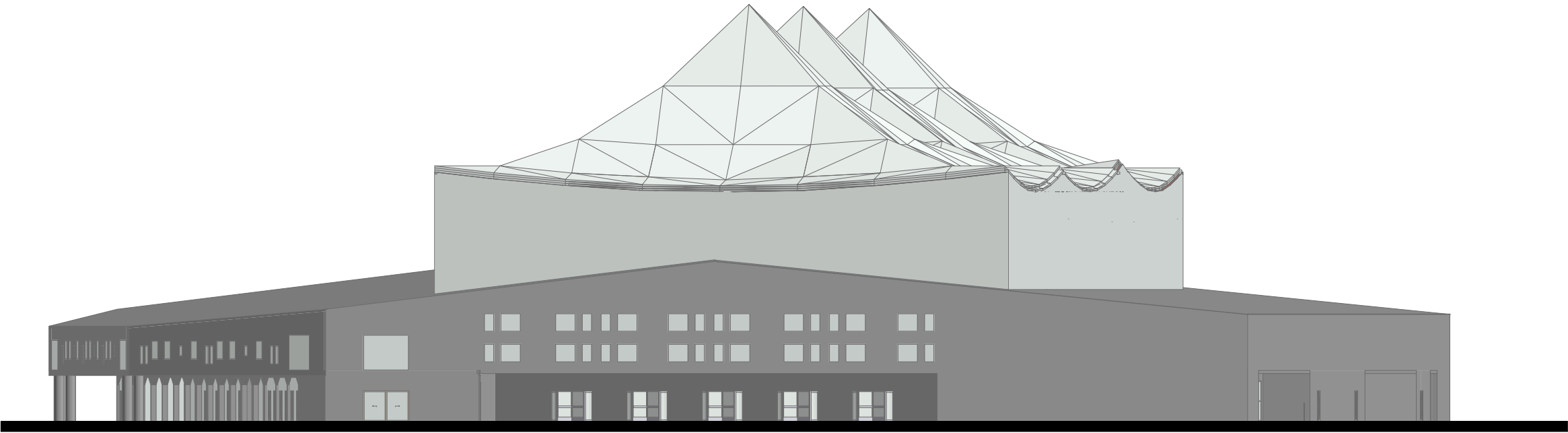
Sections



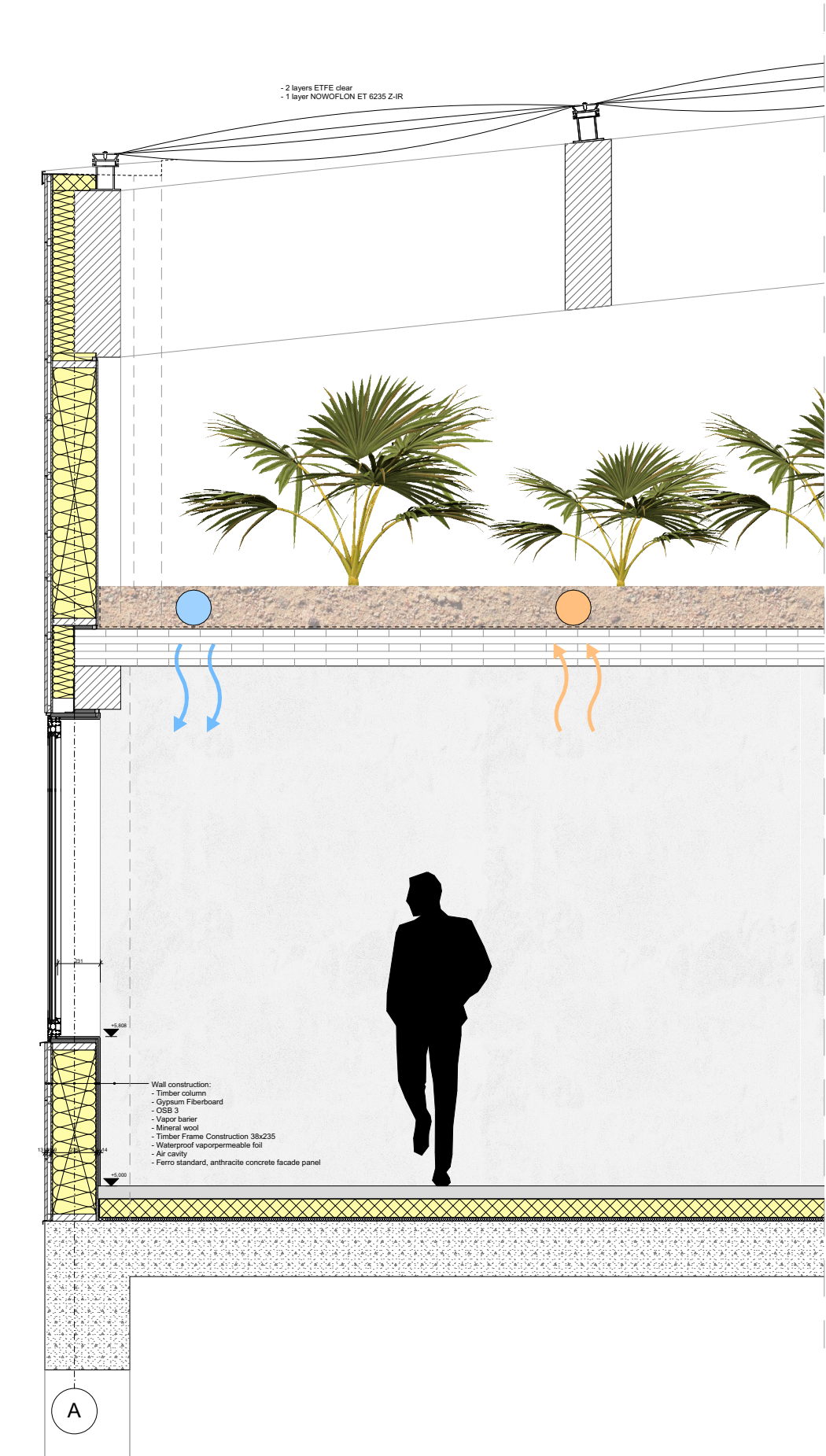
Elevations



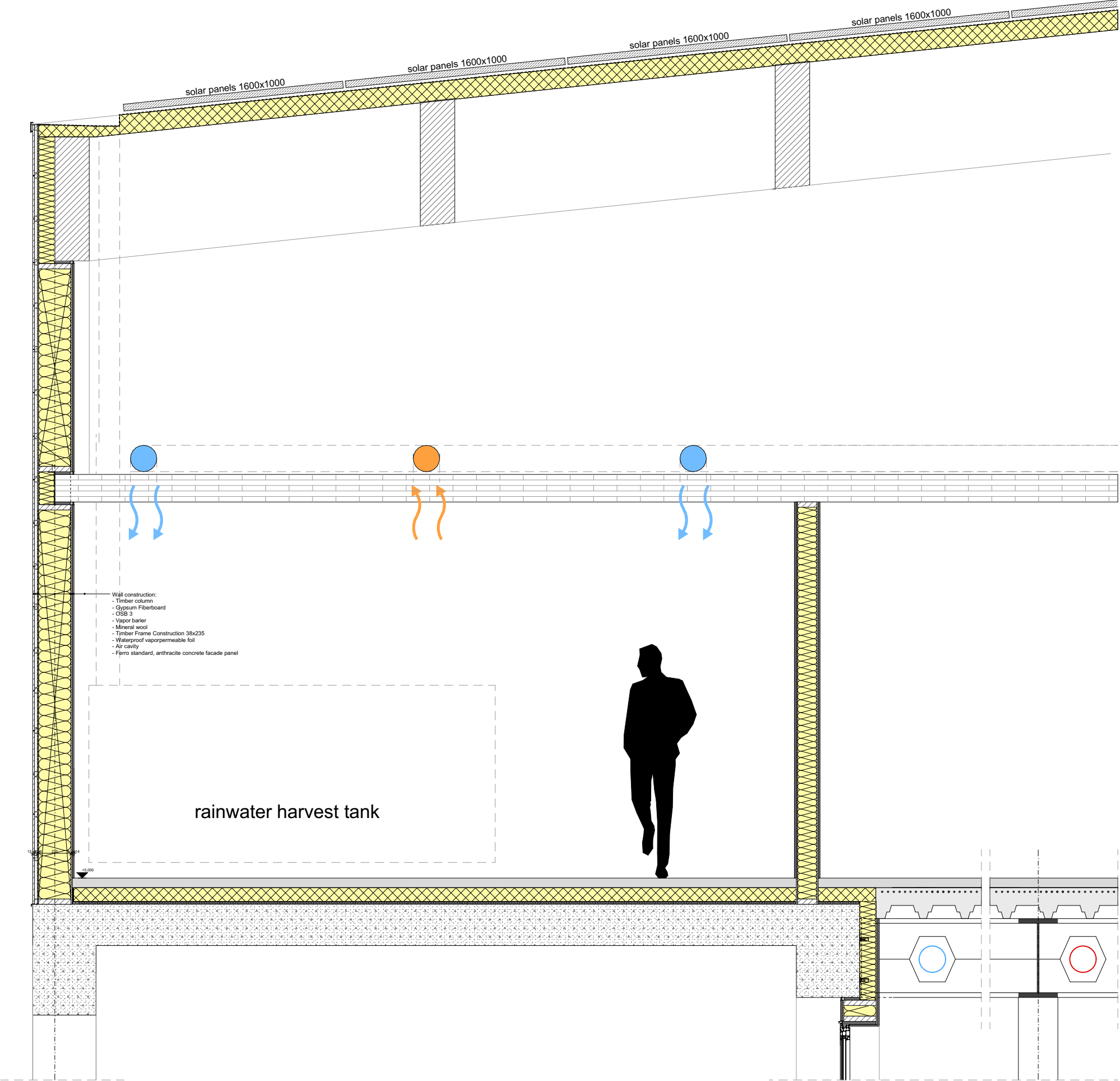
Elevations

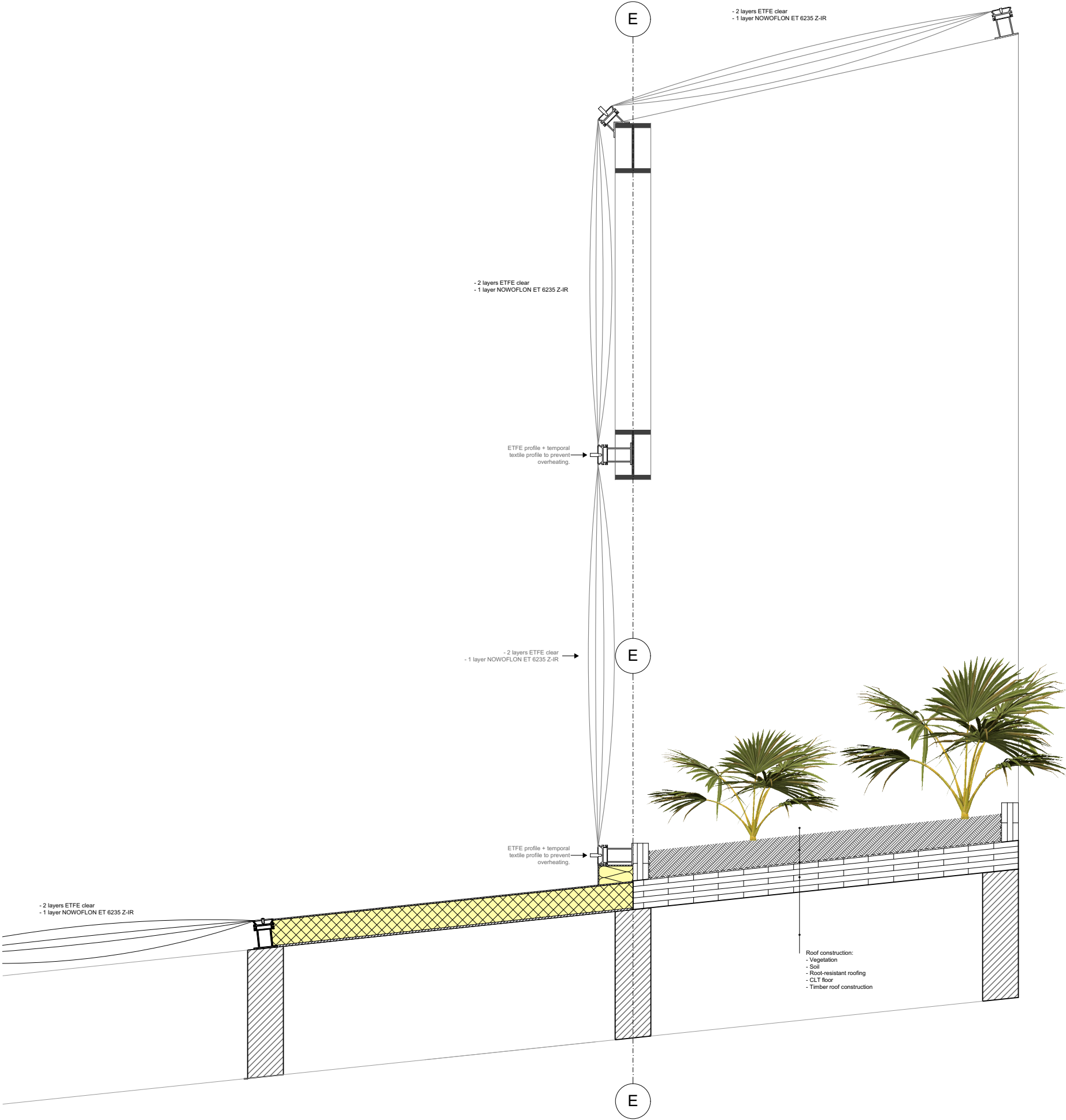


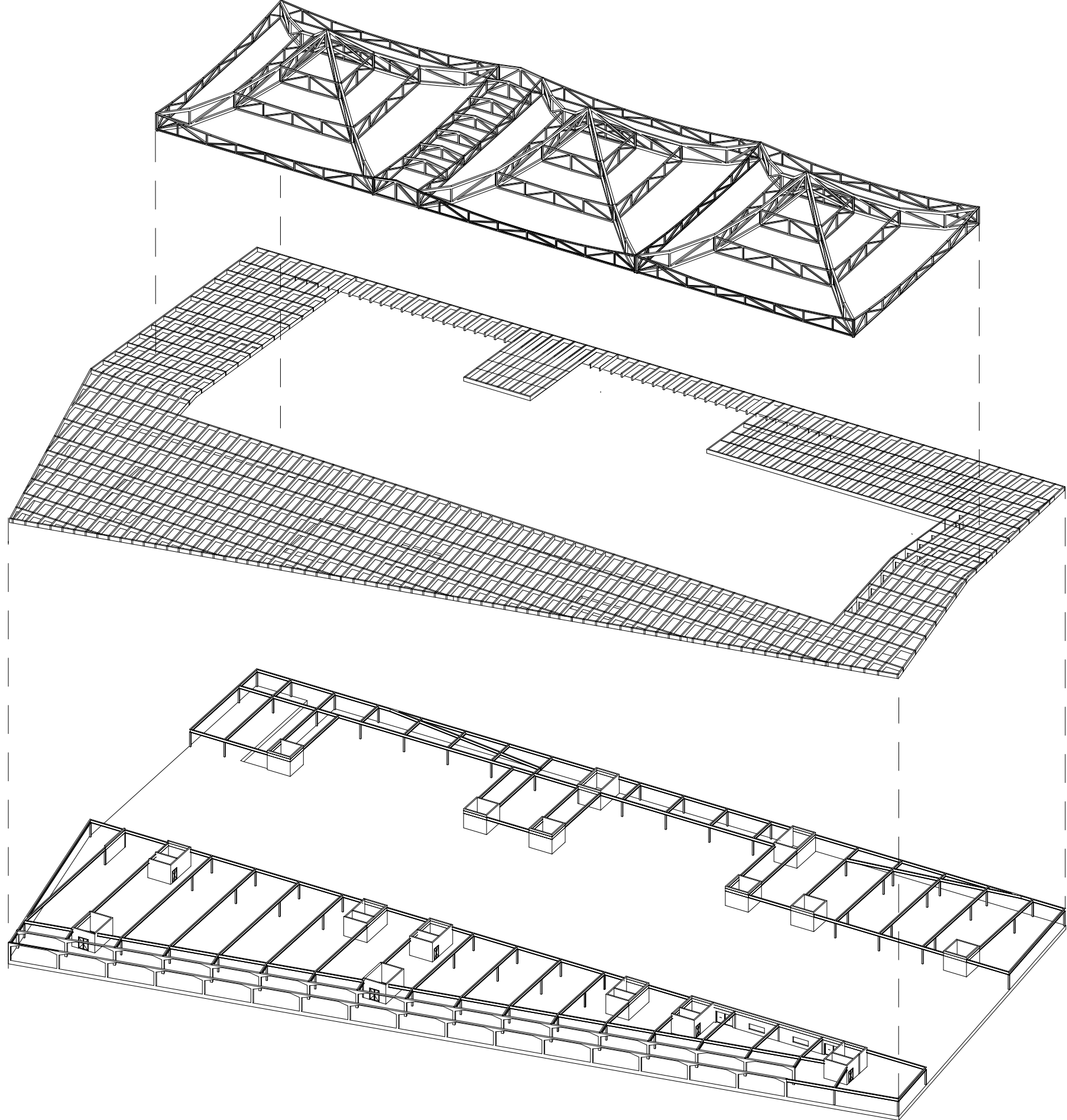
Building fragment



Building fragment

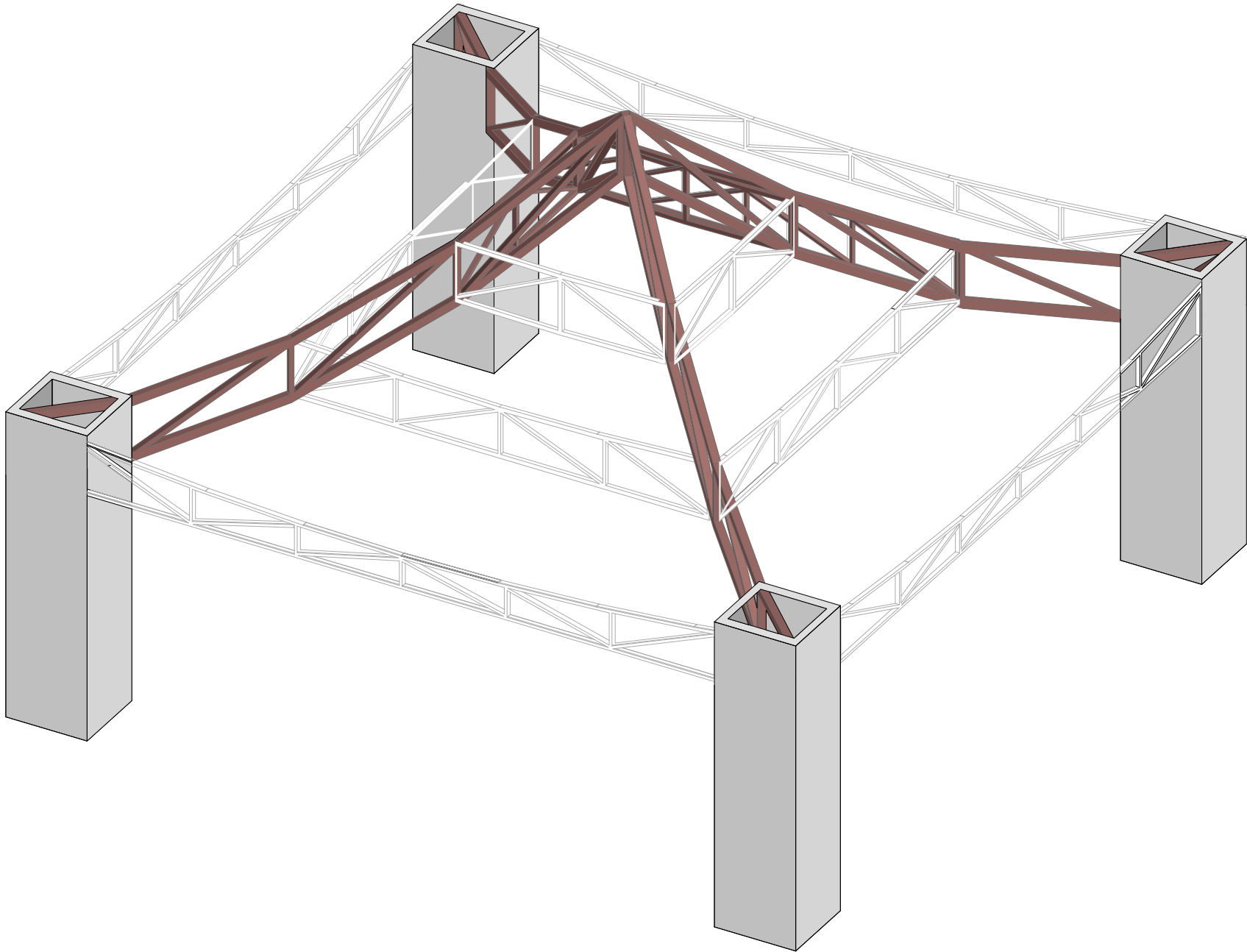




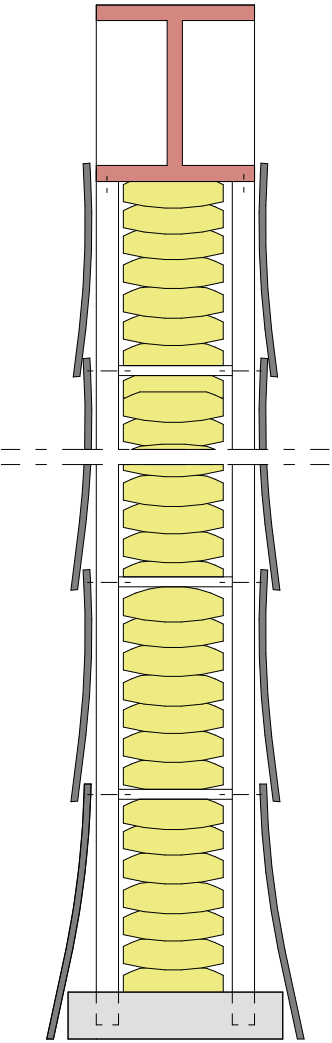
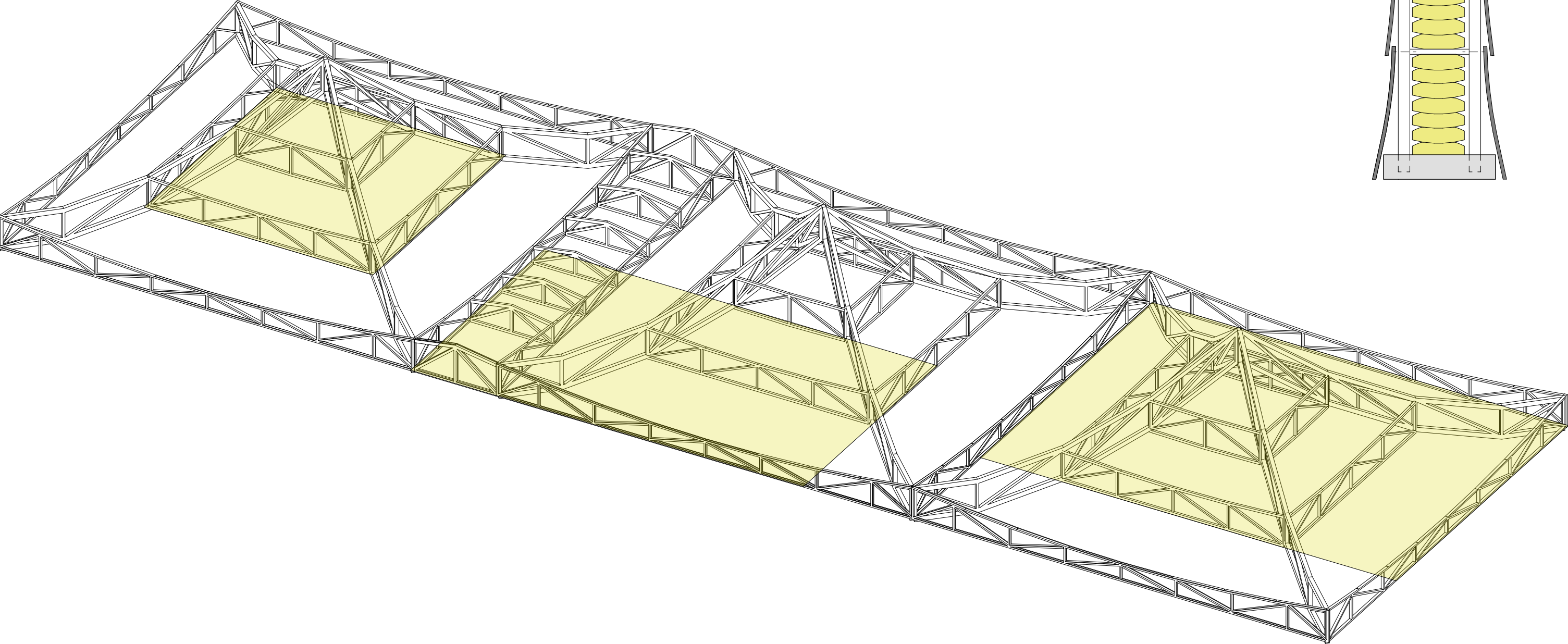


Stability

- stability cores
- main constr.
- secundair const.

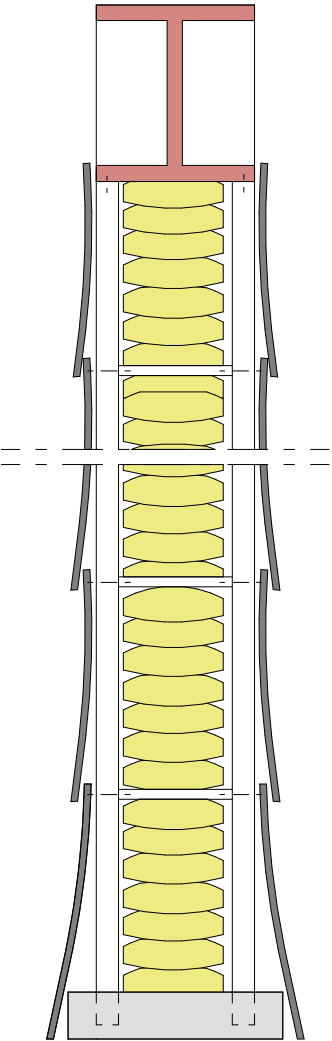
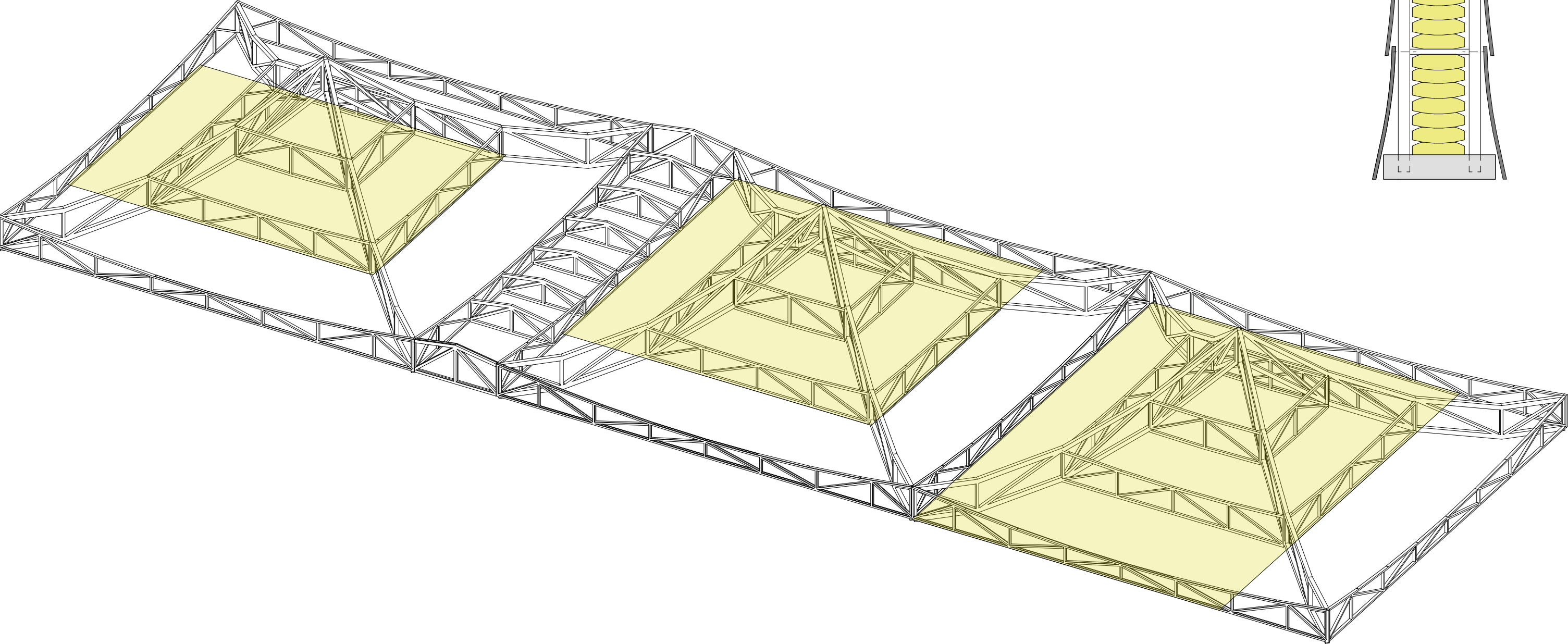


Flexibility



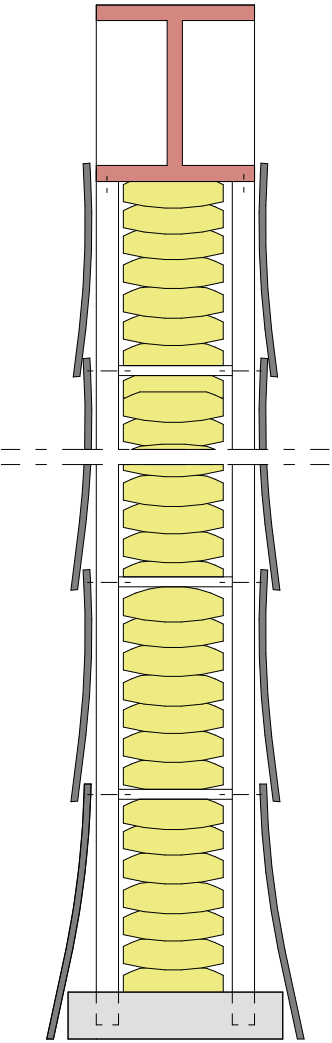
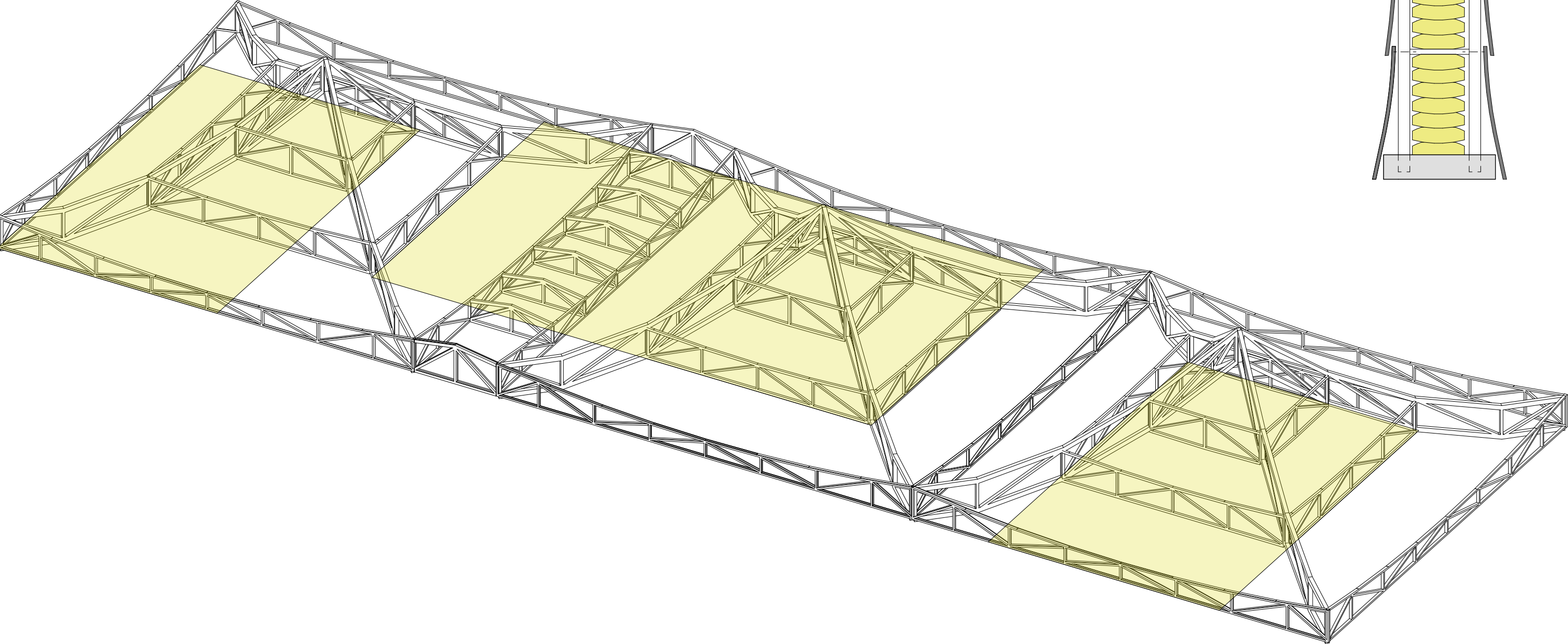
- temporal sound barrier
- tb6 sonic echo barrier
- roof construction
- sandbags
- concrete block

Flexibility



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- tb6 sonic echo barrier
- roof construction
- sandbags
- concrete block

Flexibility



- temporal sound barrier
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Climate diagram

