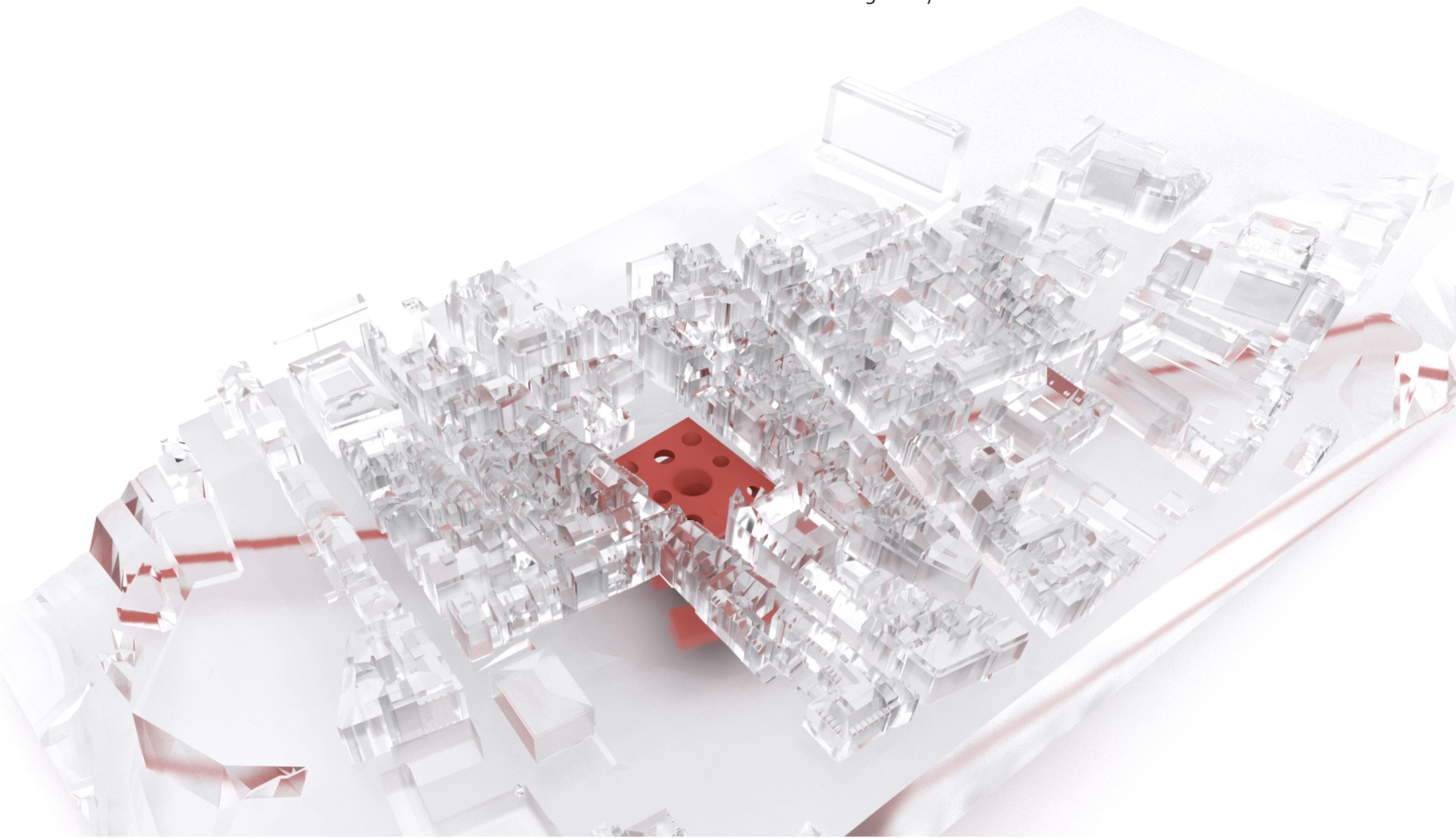
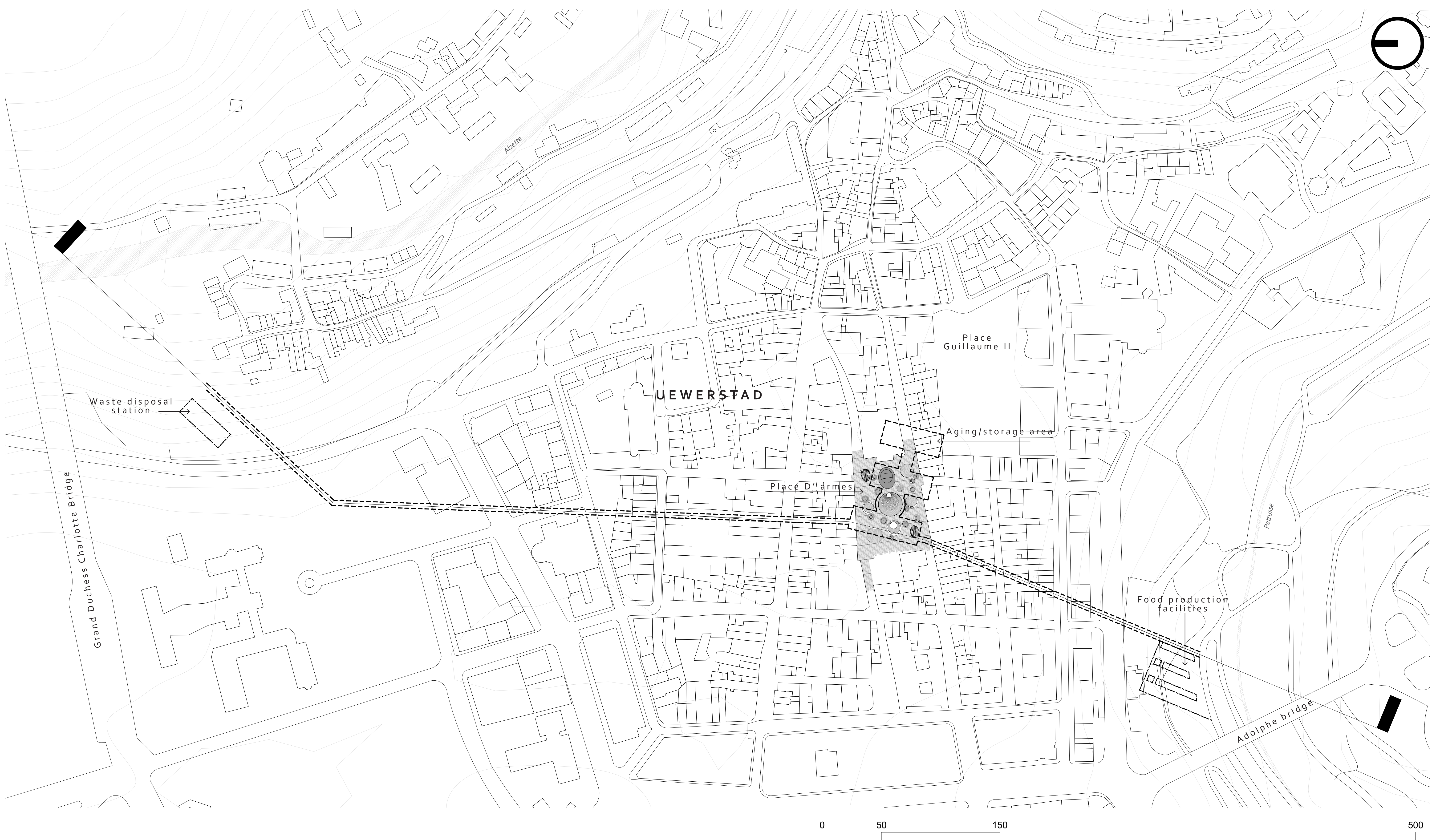


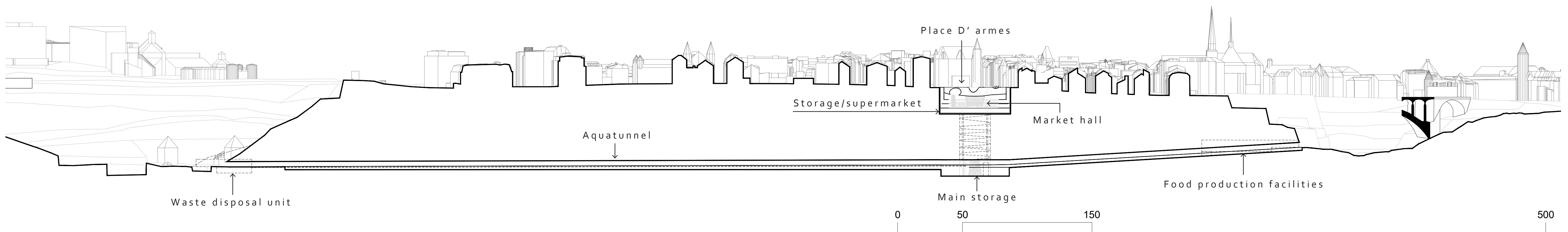
THE ELEVATOR DIAGRAM

A food hub for Luxembourg city

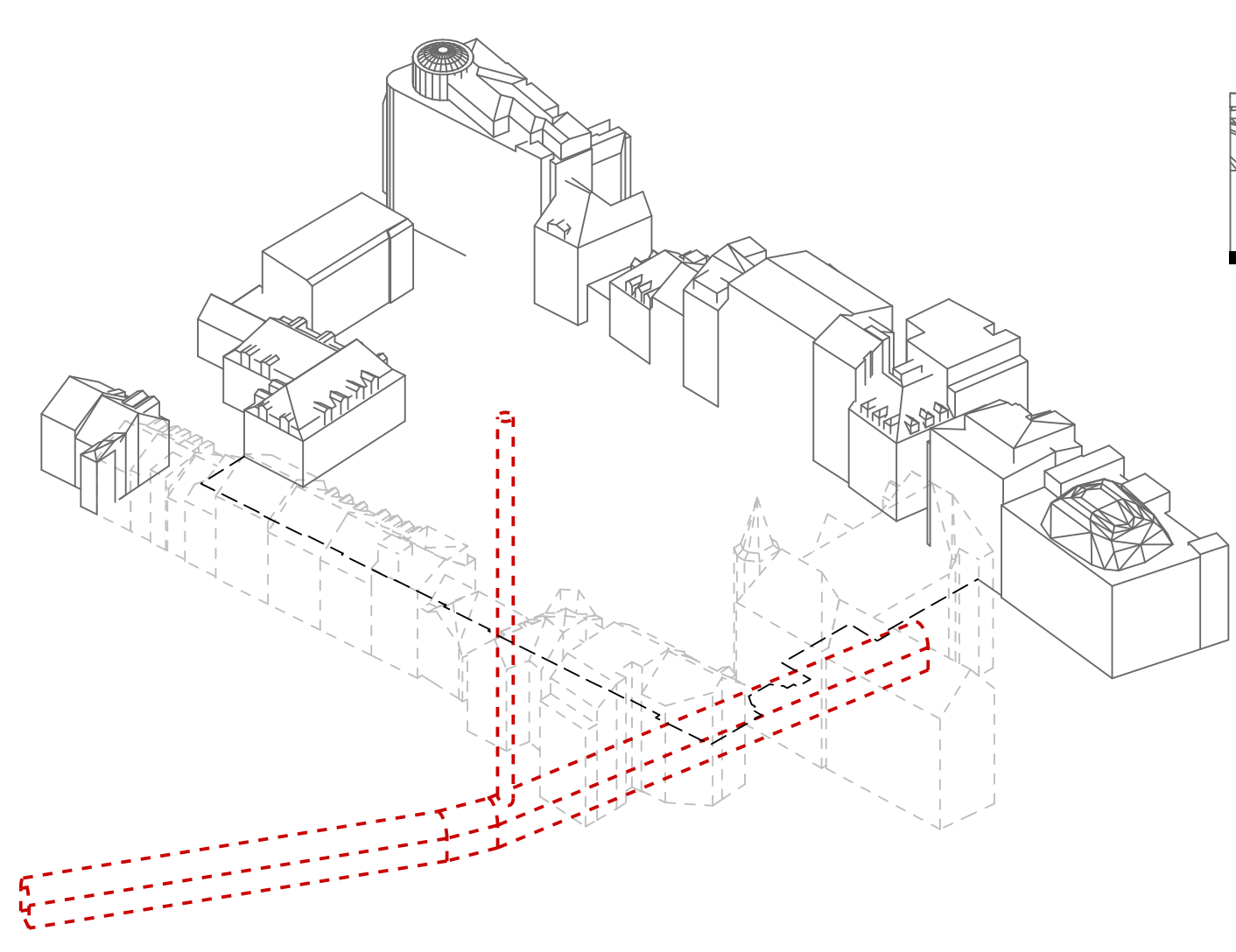




SITE PLAN
scale 1:1500

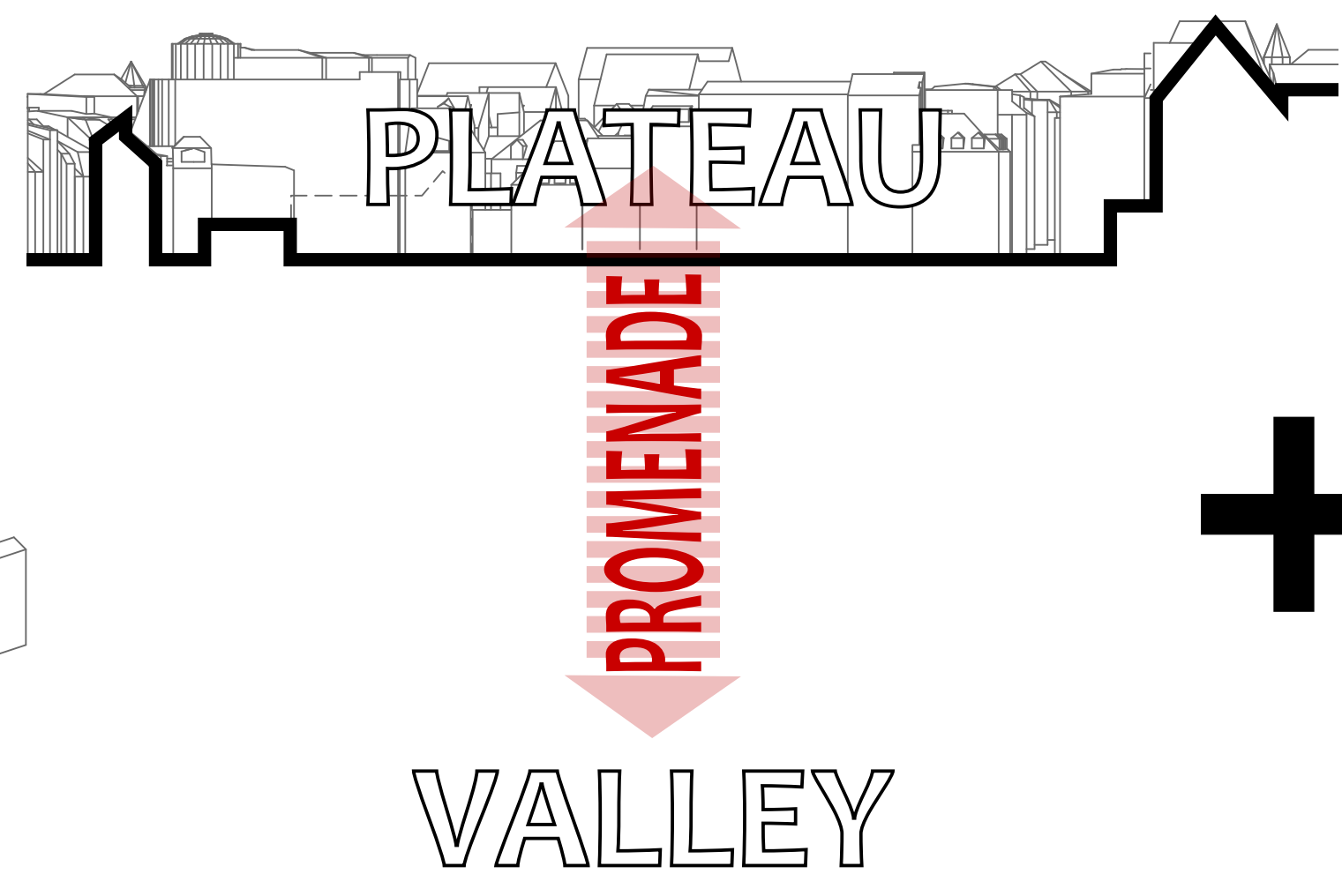


SITE SECTION PLAN
scale 1:1500



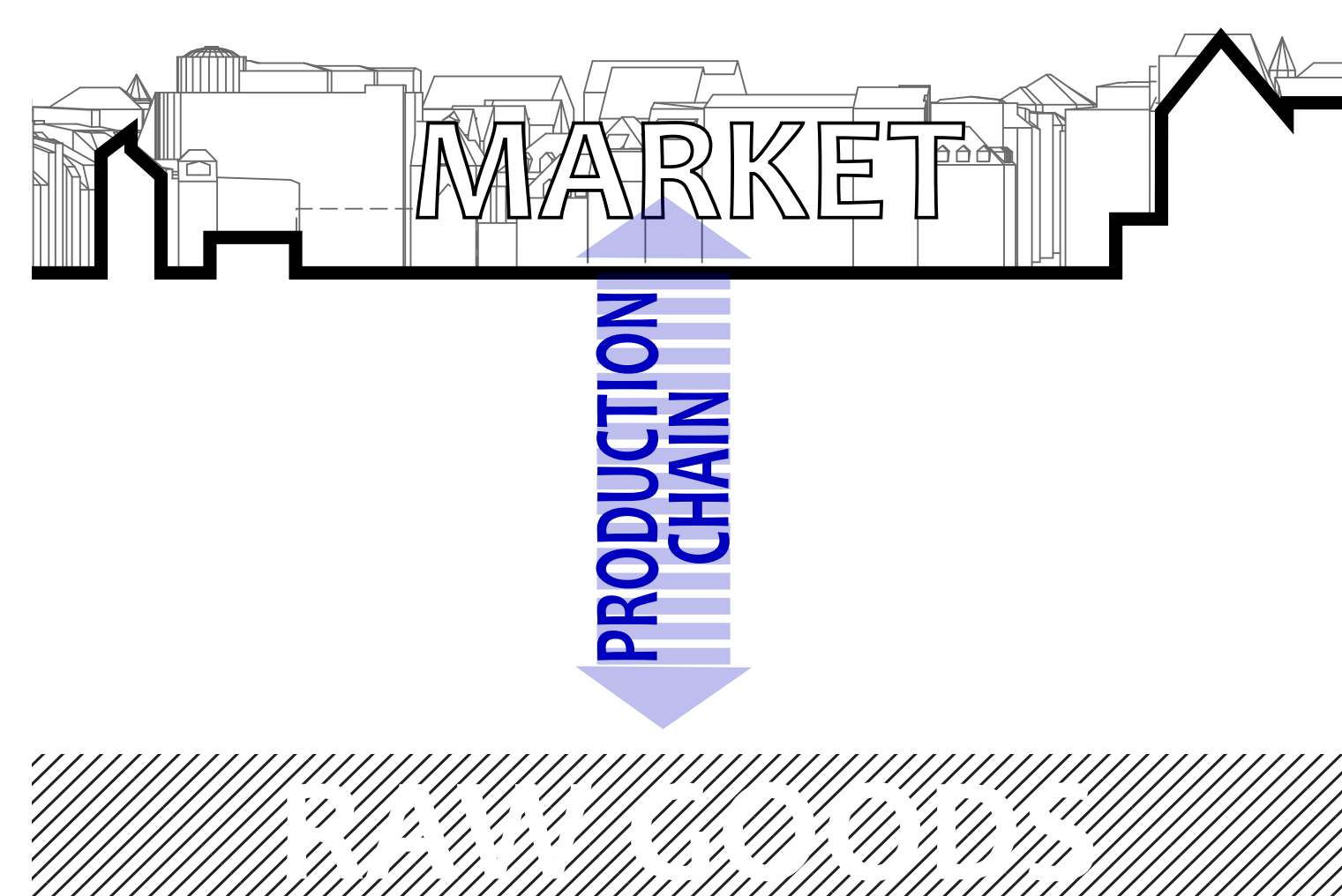
CONNECTION

The 'aquatunnel' connects through the underground the valleys around the city center plateau and it also has two vertical connections originally made for ventilation. This creates a link between the city center and the valley.



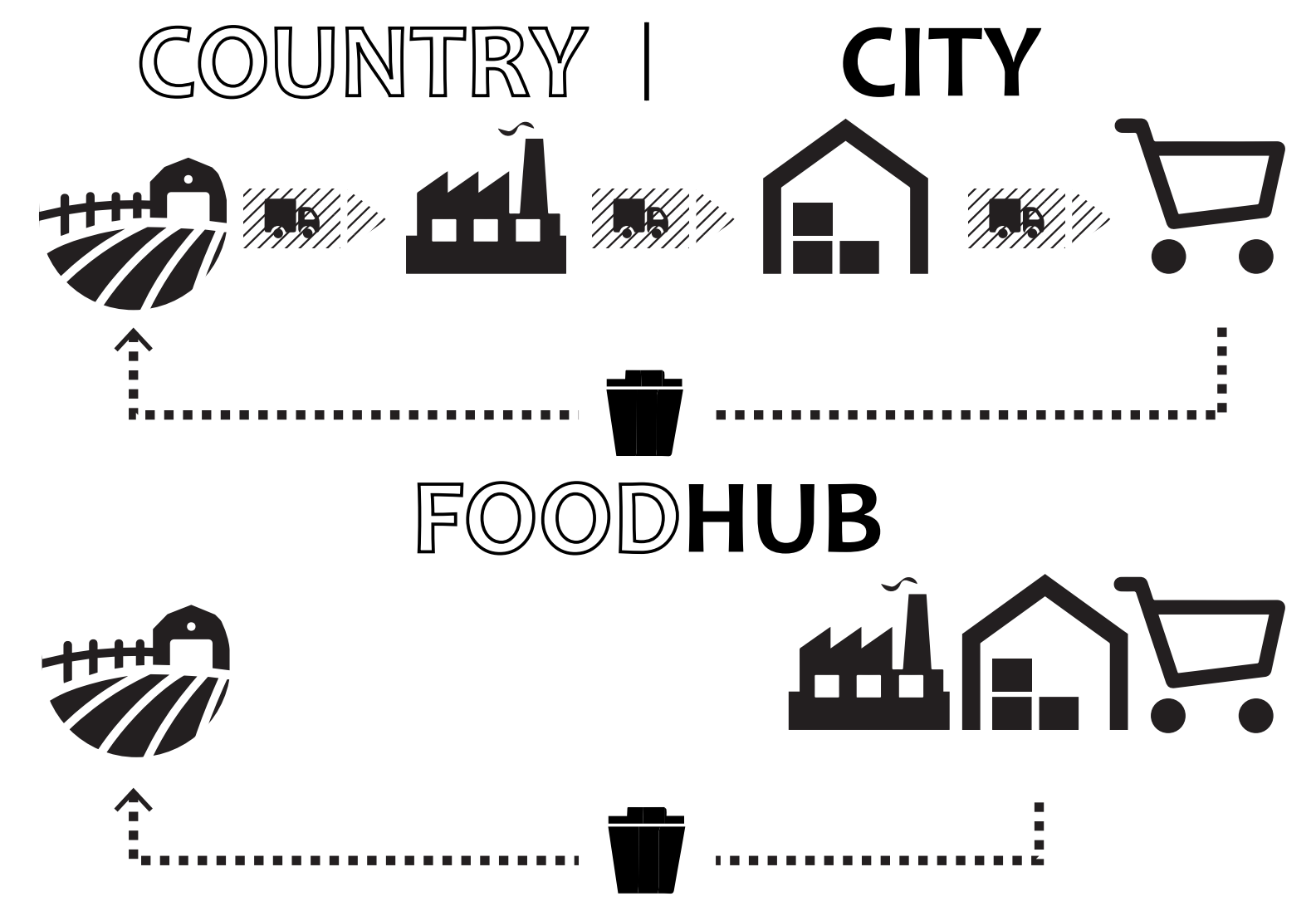
PROMENADE

This vertical connection to the tunnel and later to the valley represents a radical point, it creates a direct connection from the city center to the 'periphery' of the city. The connection is, therefore, a promenade to the valley.



PROGRAM/ANALOGY

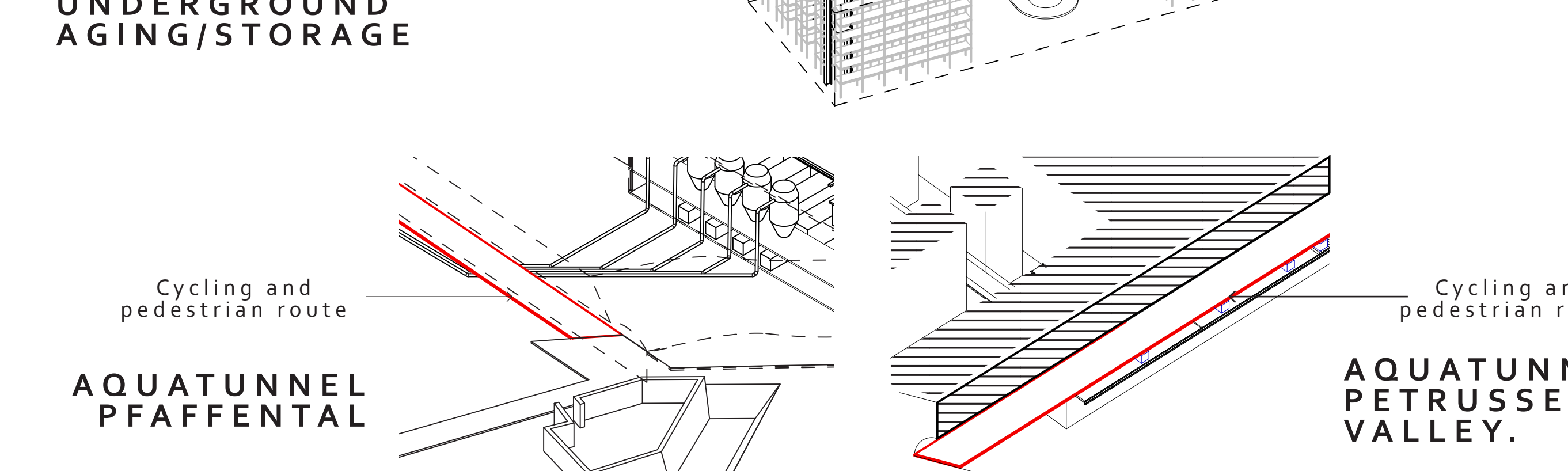
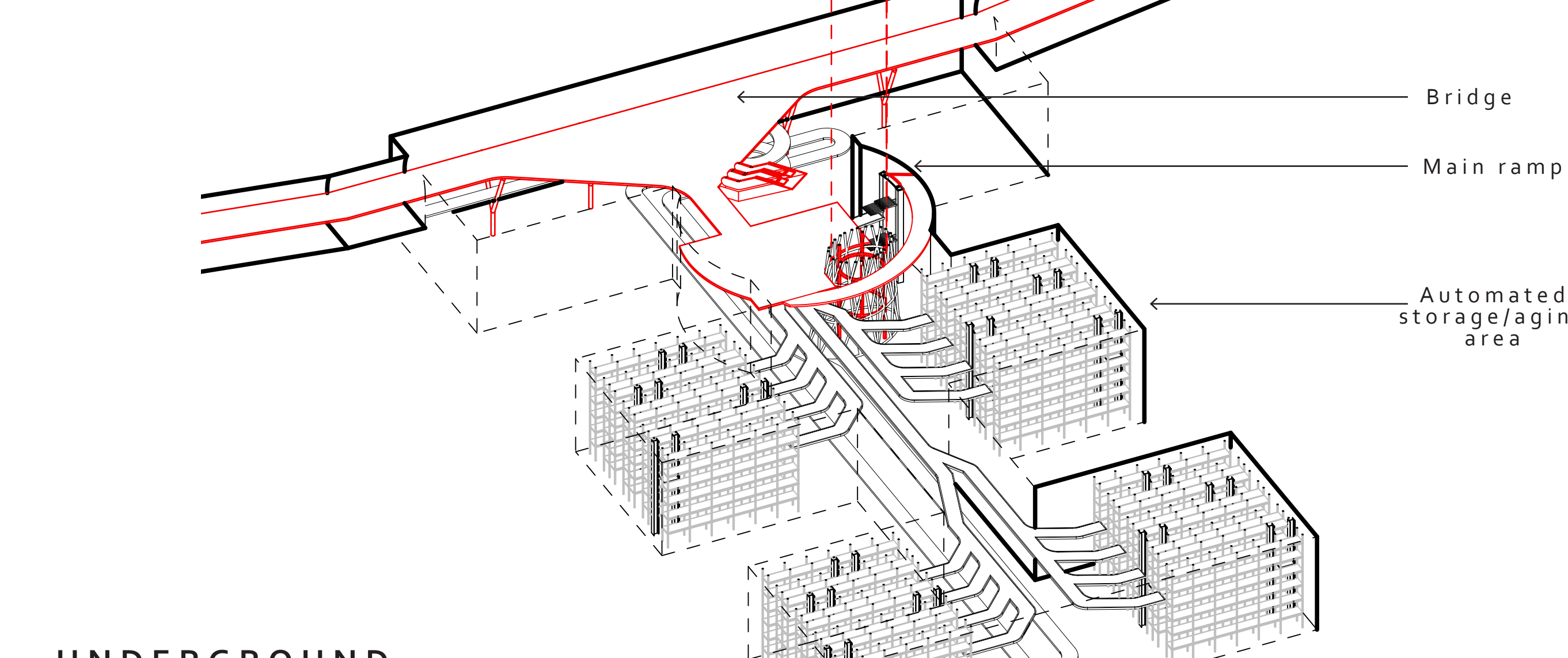
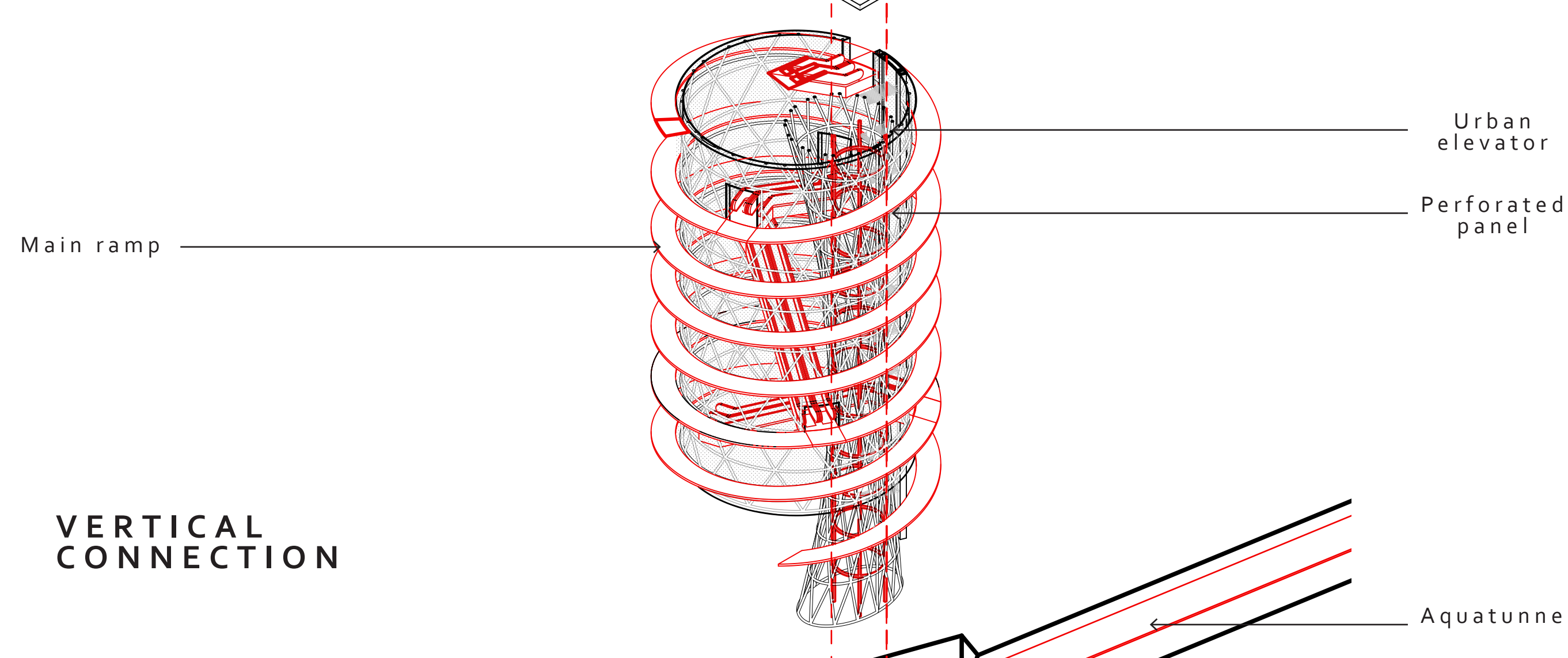
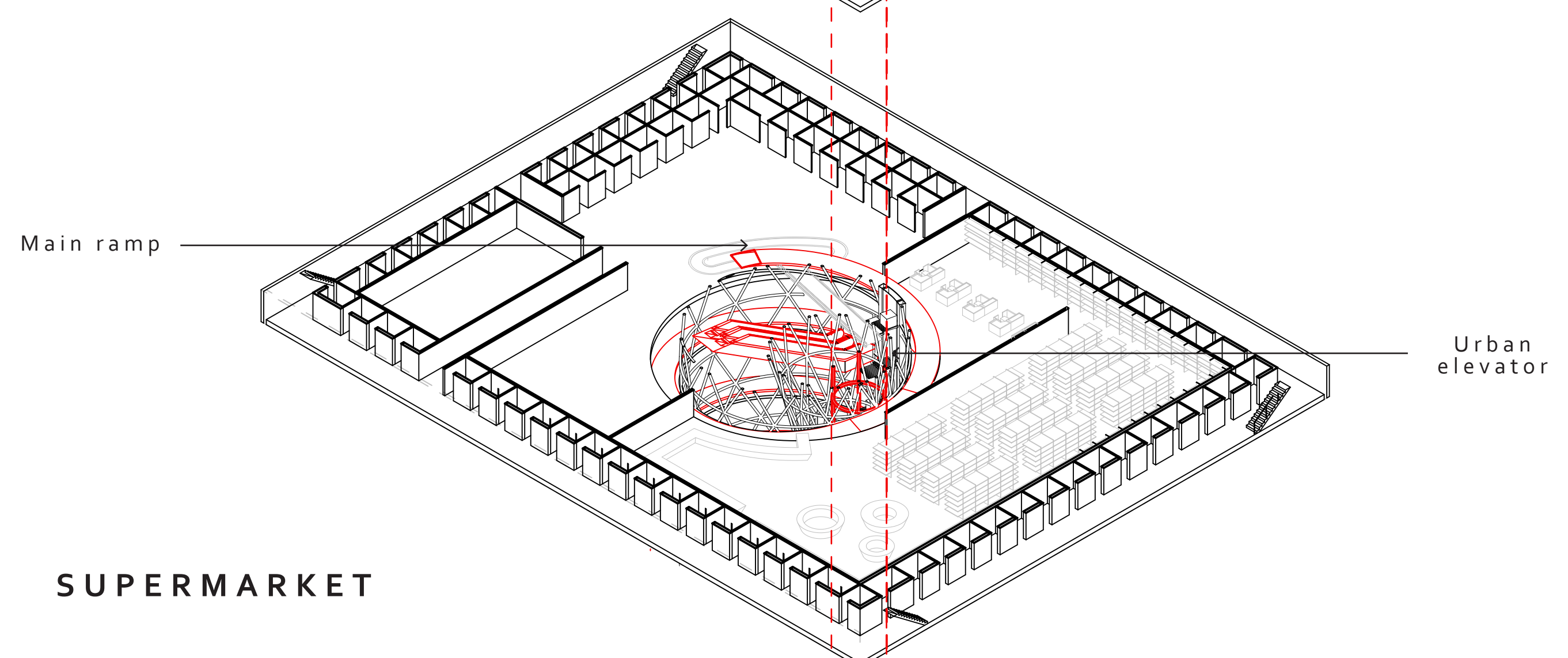
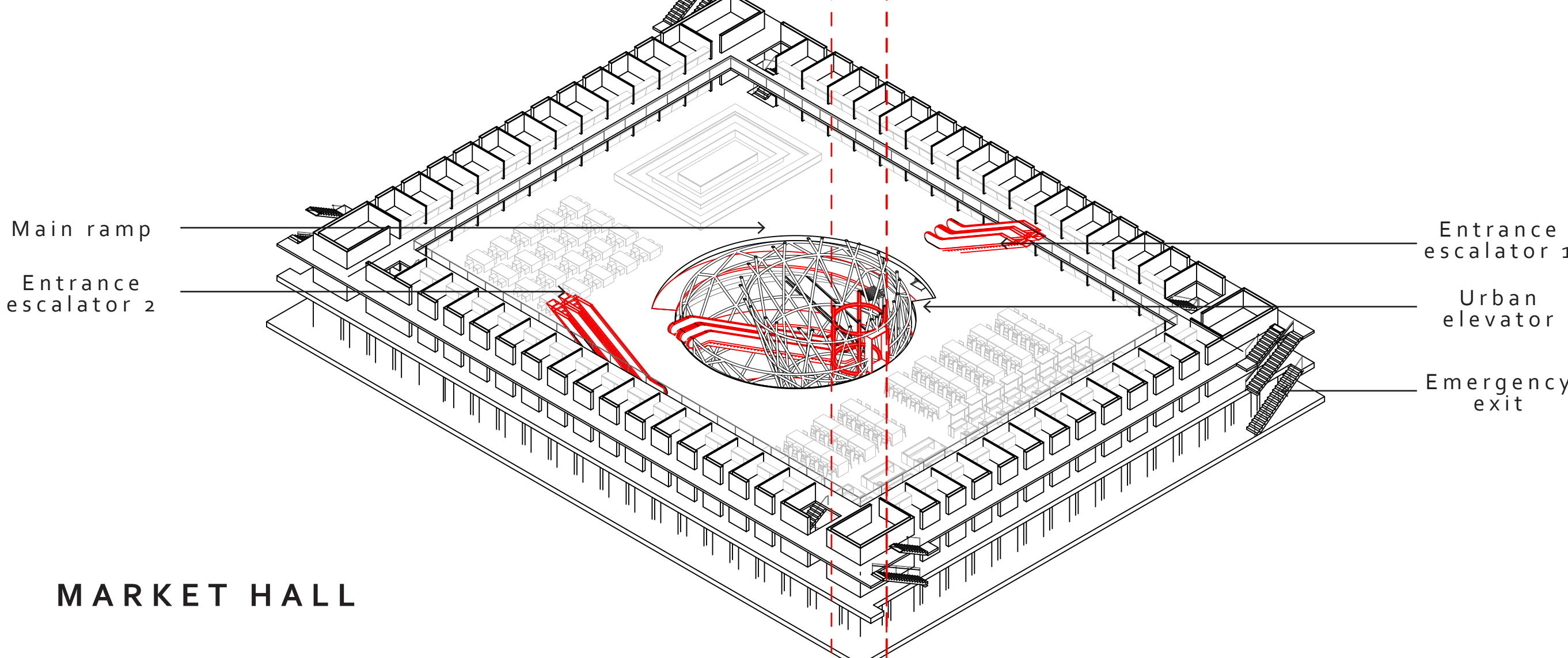
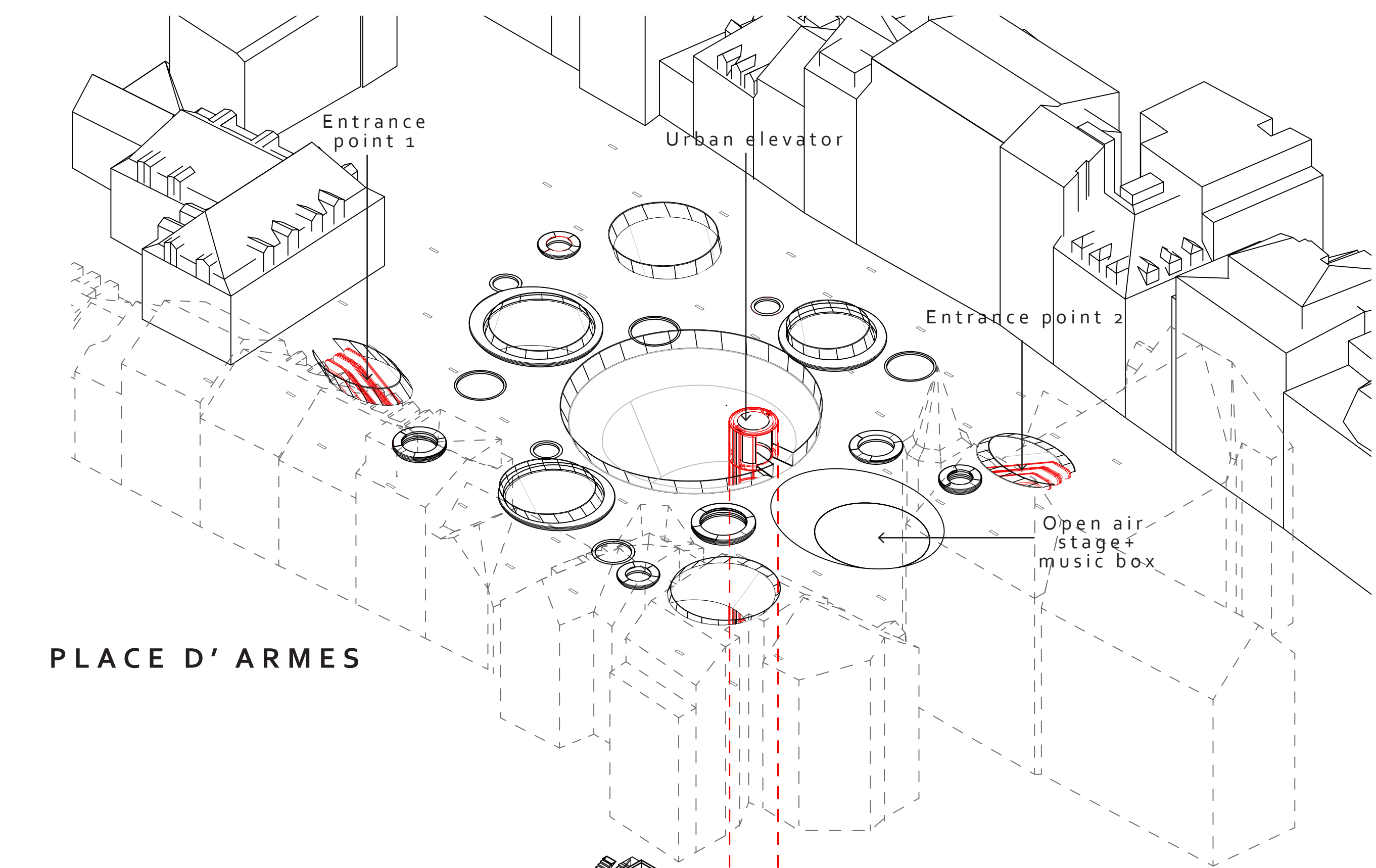
In order to relate the idea of this connection with an architectural intervention and based on the linearity of the promenade, the chosen program is a linear process. The food production also introduces a metaphor on how food is produced from the soil and taken to the surface.



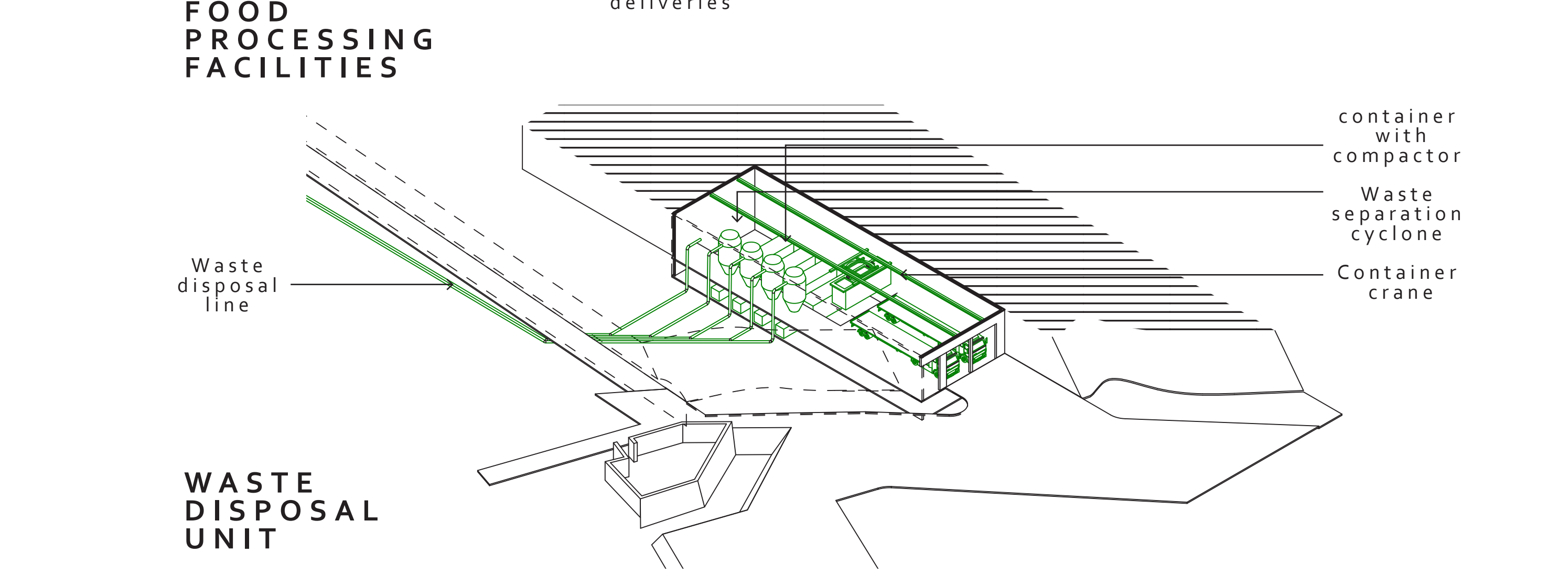
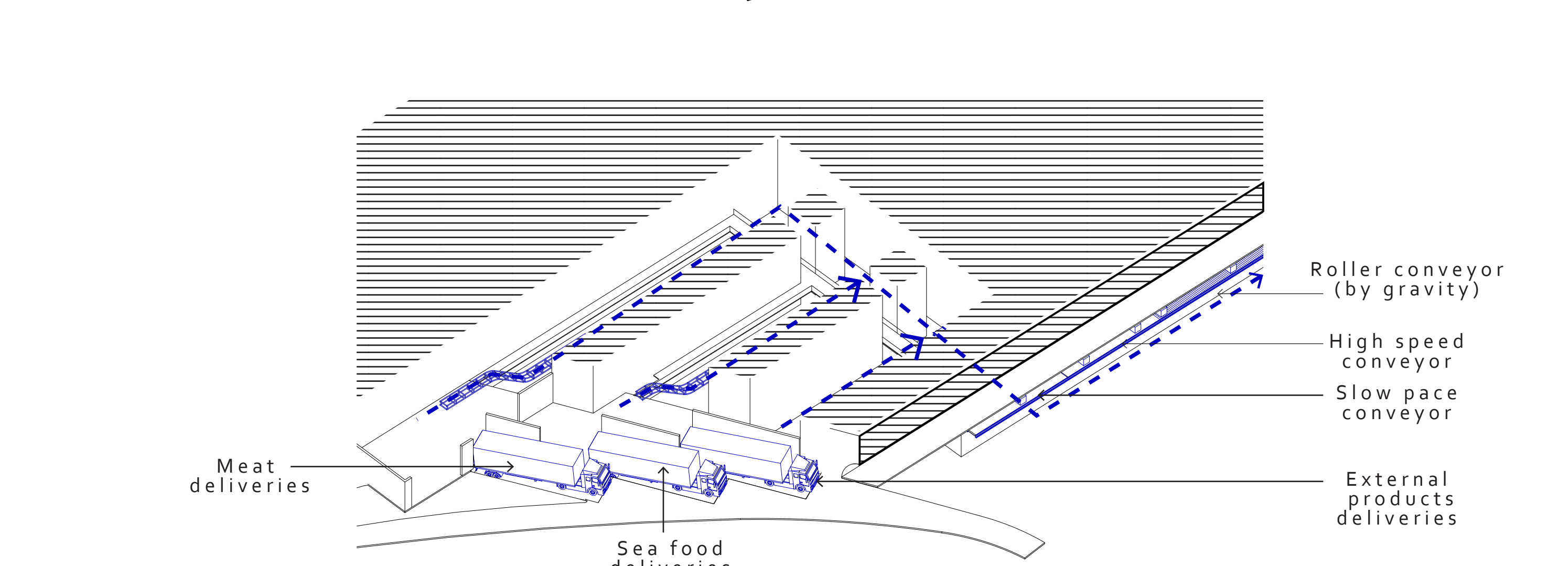
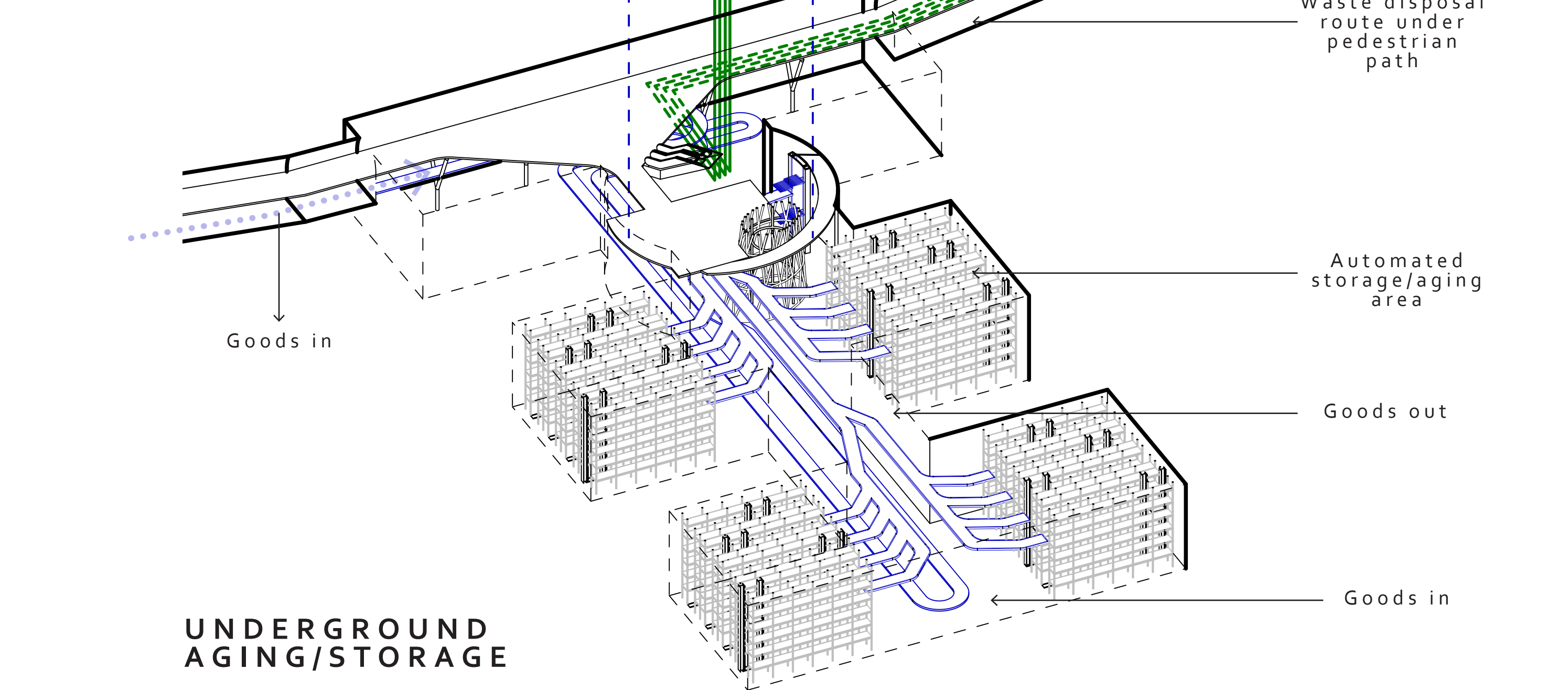
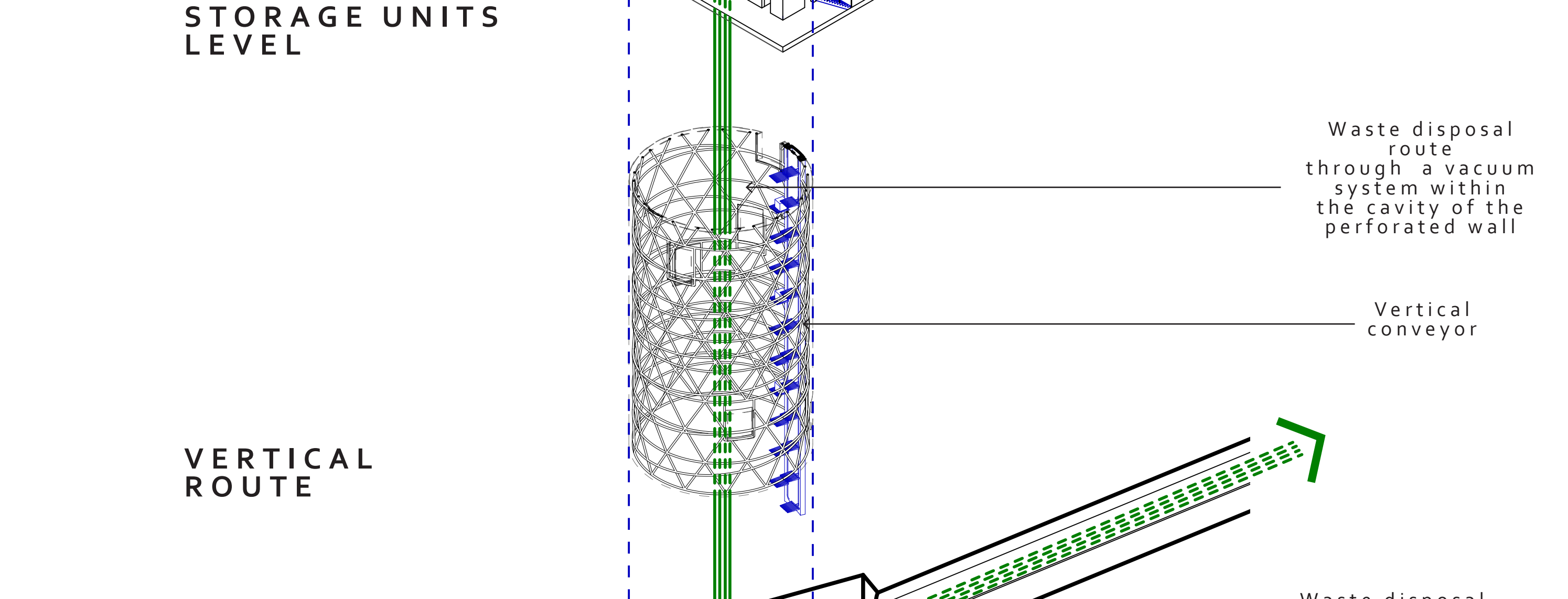
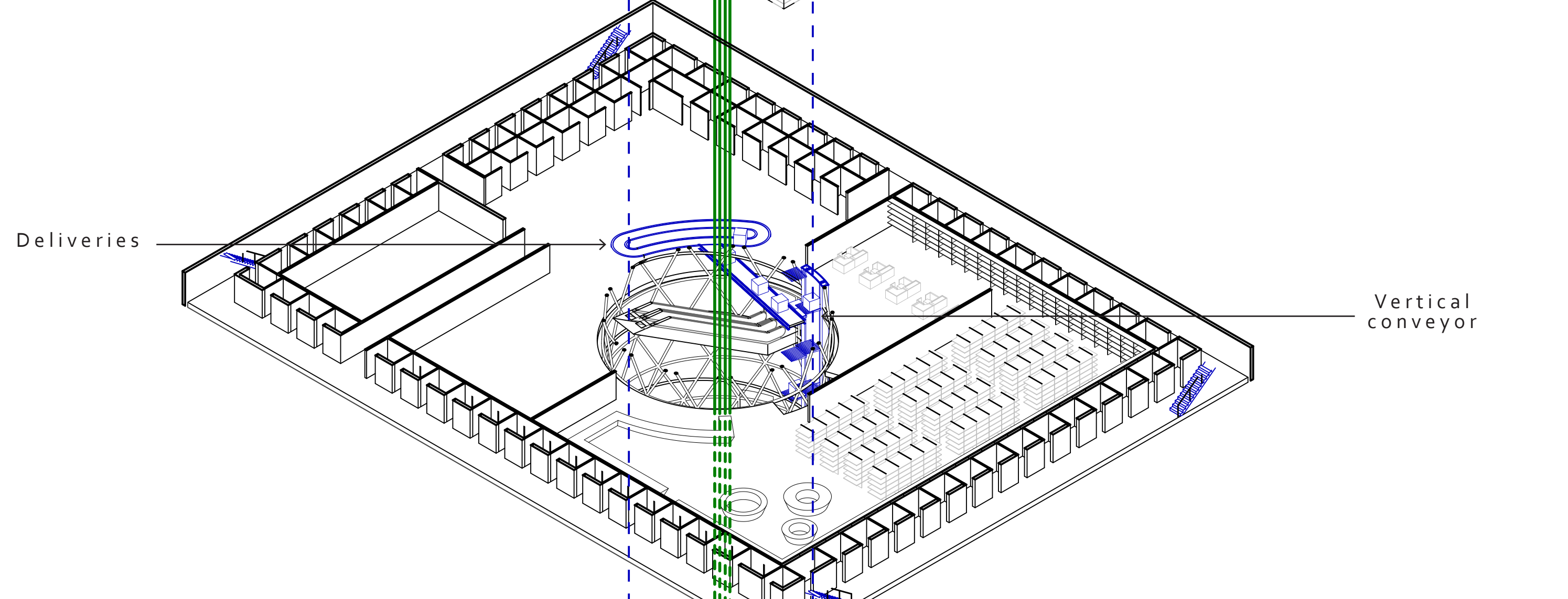
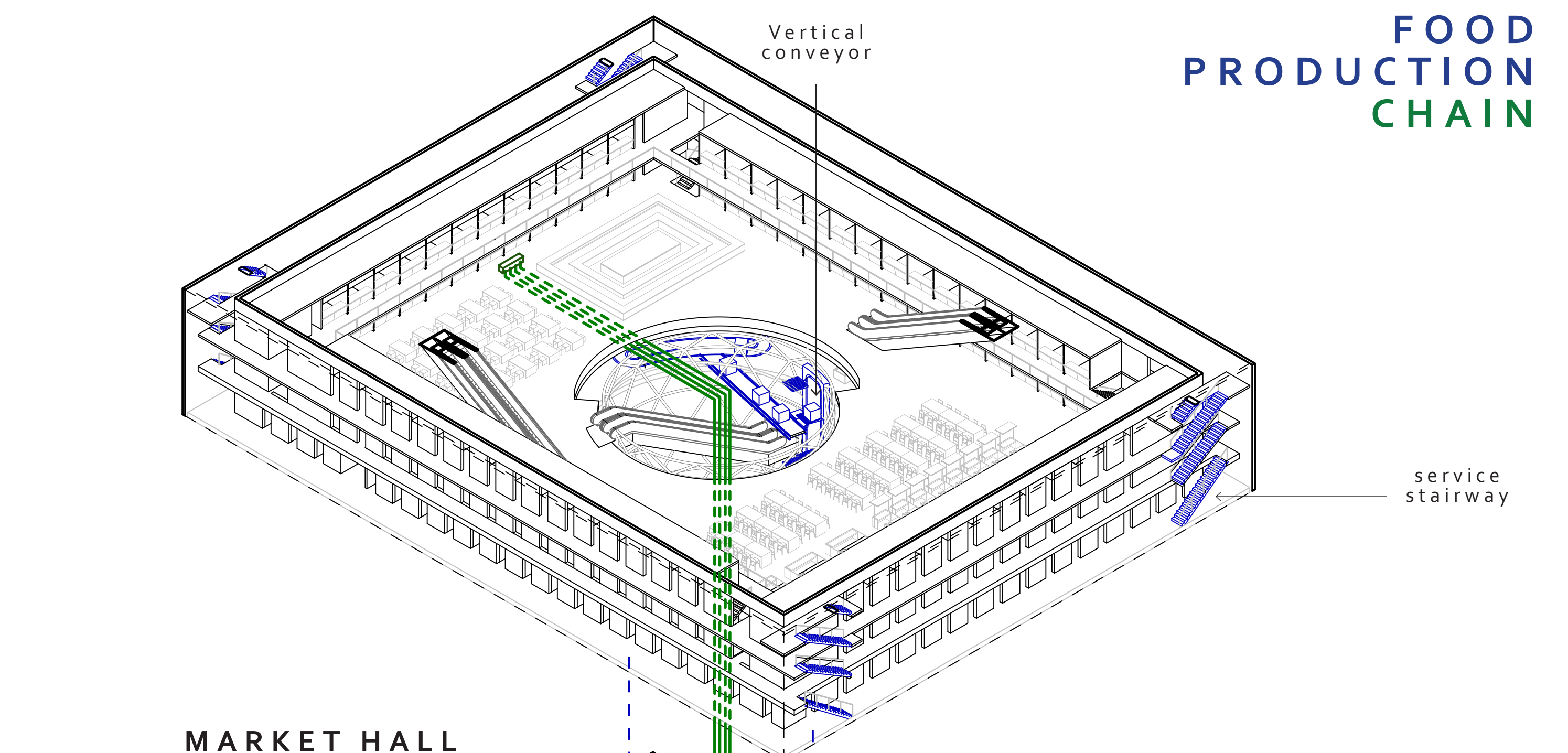
NEW SCHEME

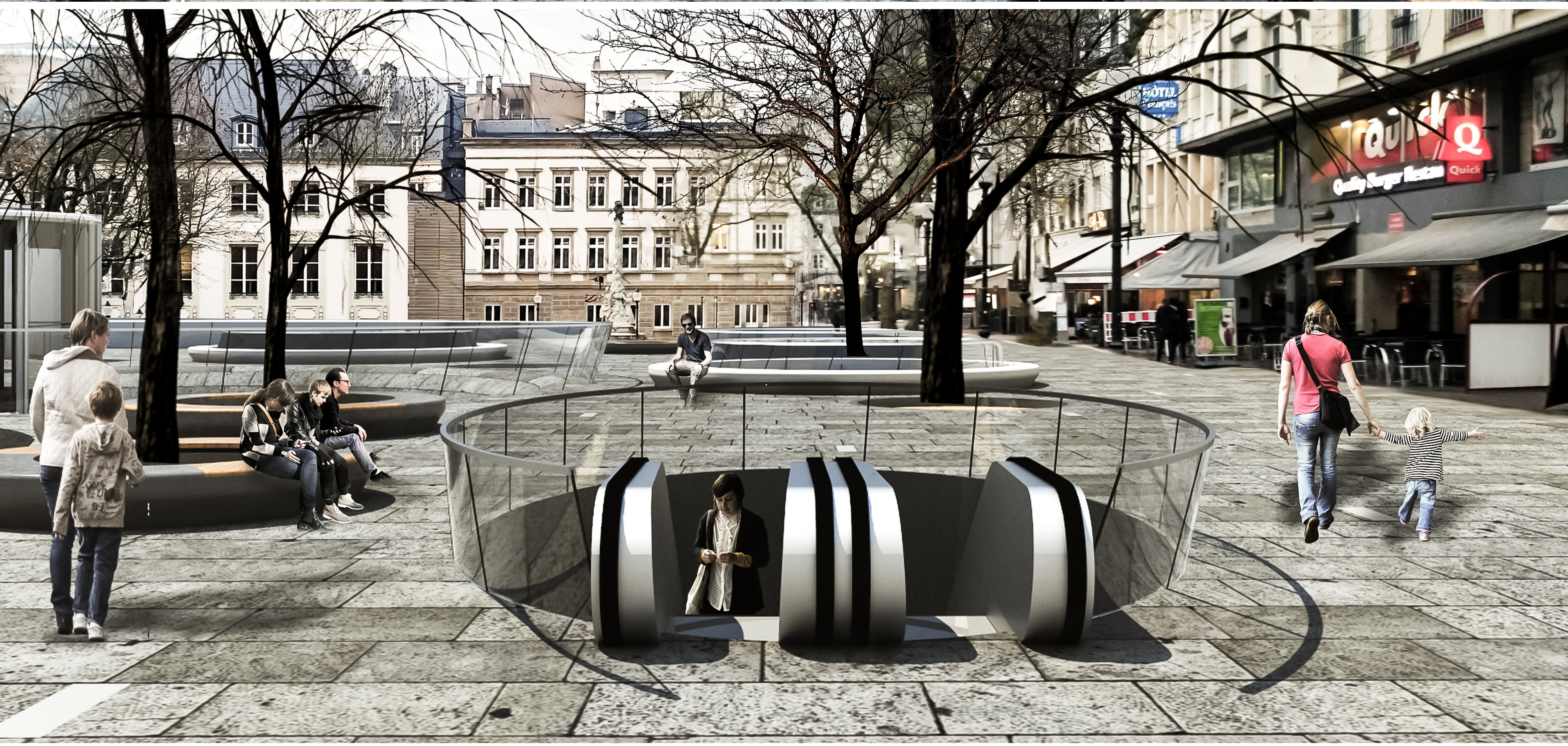
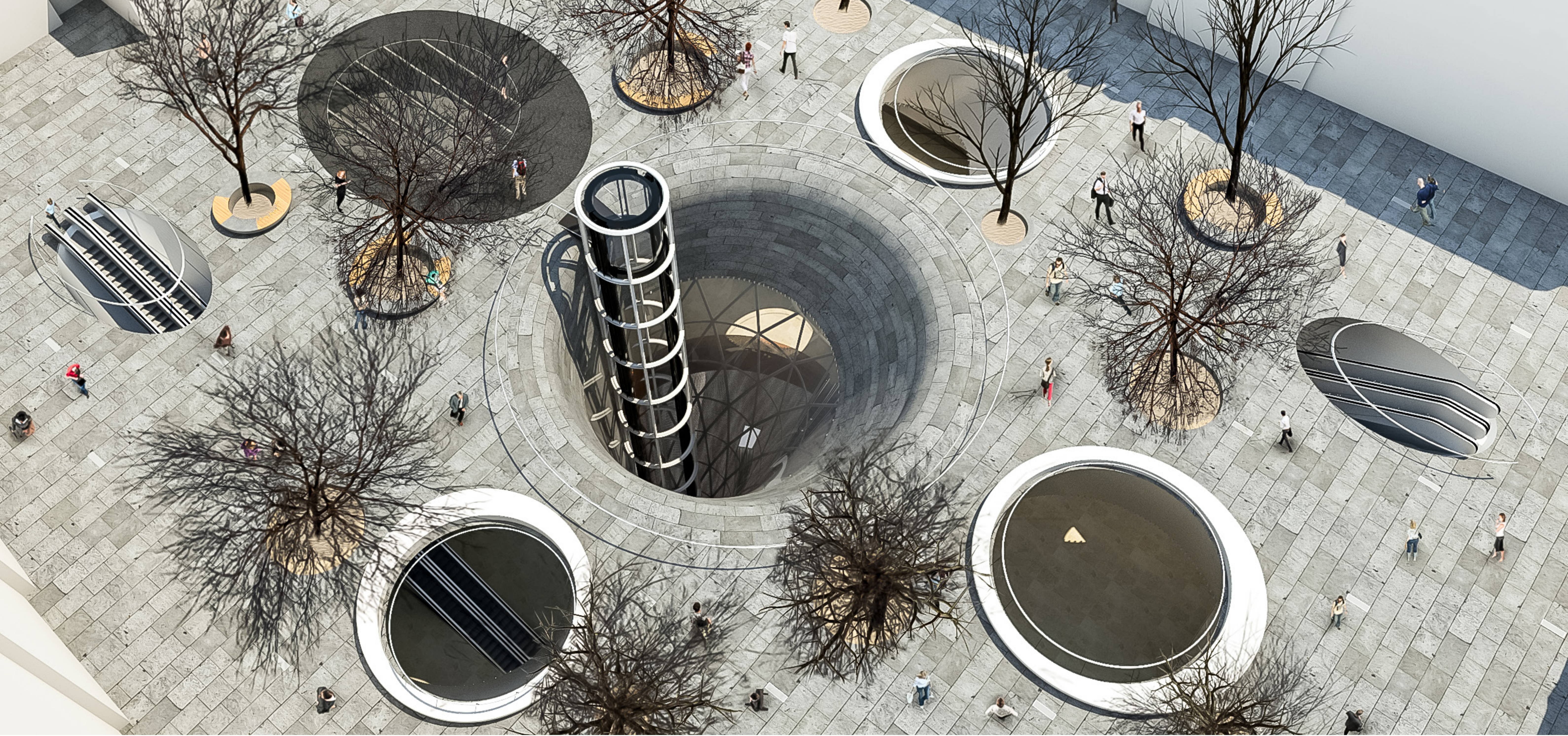
The food hub presents an alternative to the current food production chain, reduces economic and environmental costs by eliminating the transportation between middle-man entities including distributors, processors, and retailers.

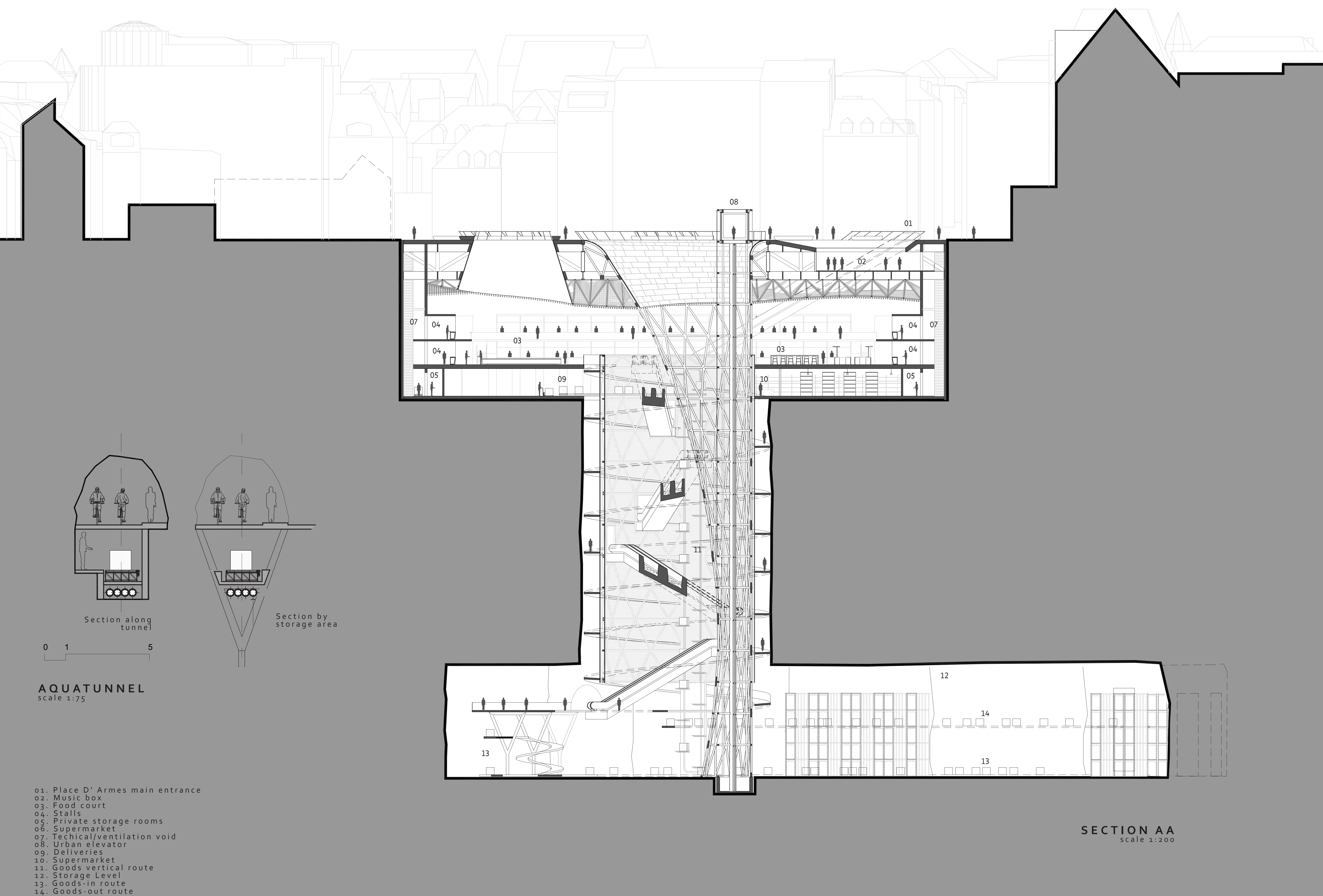
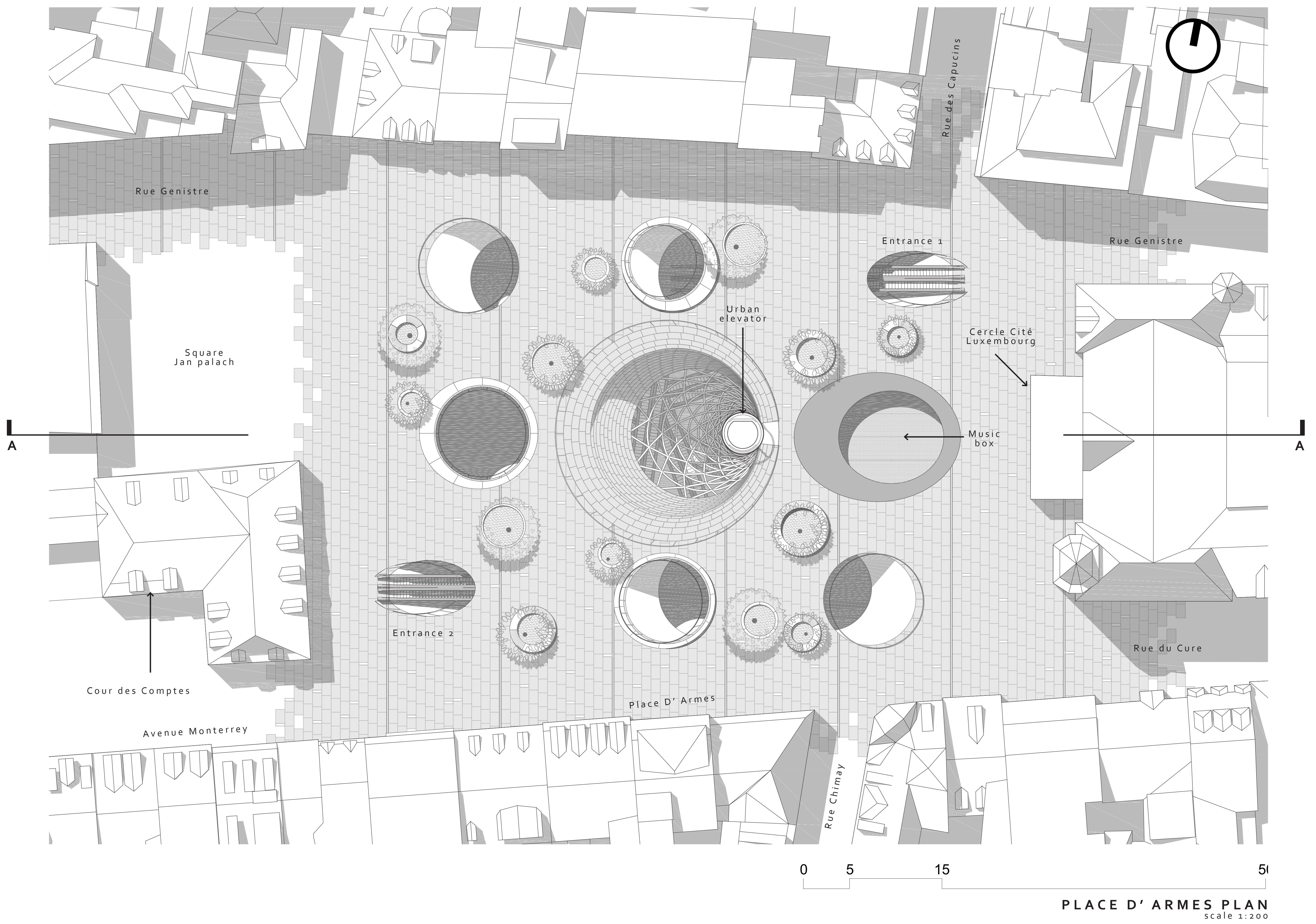
PROMENADE

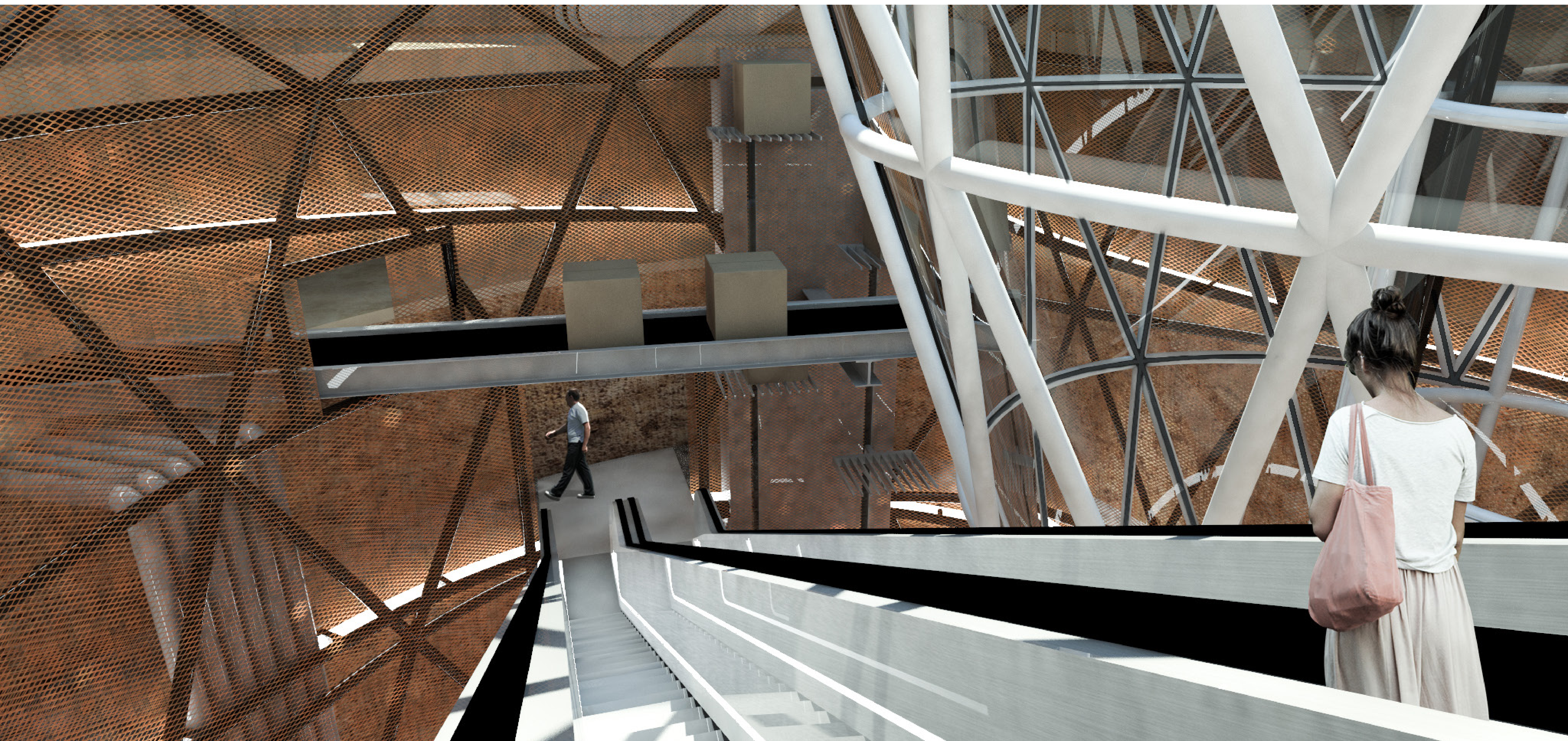
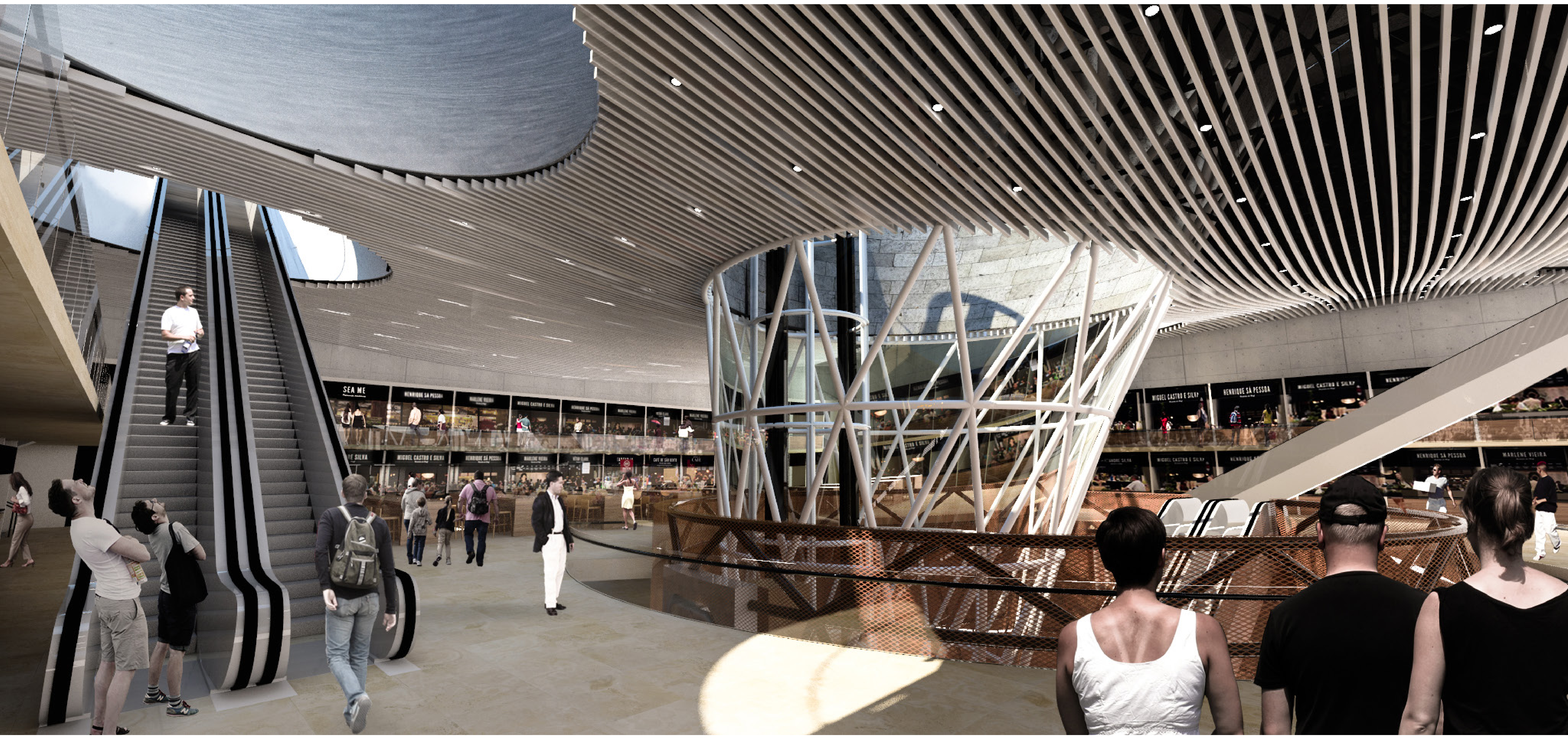
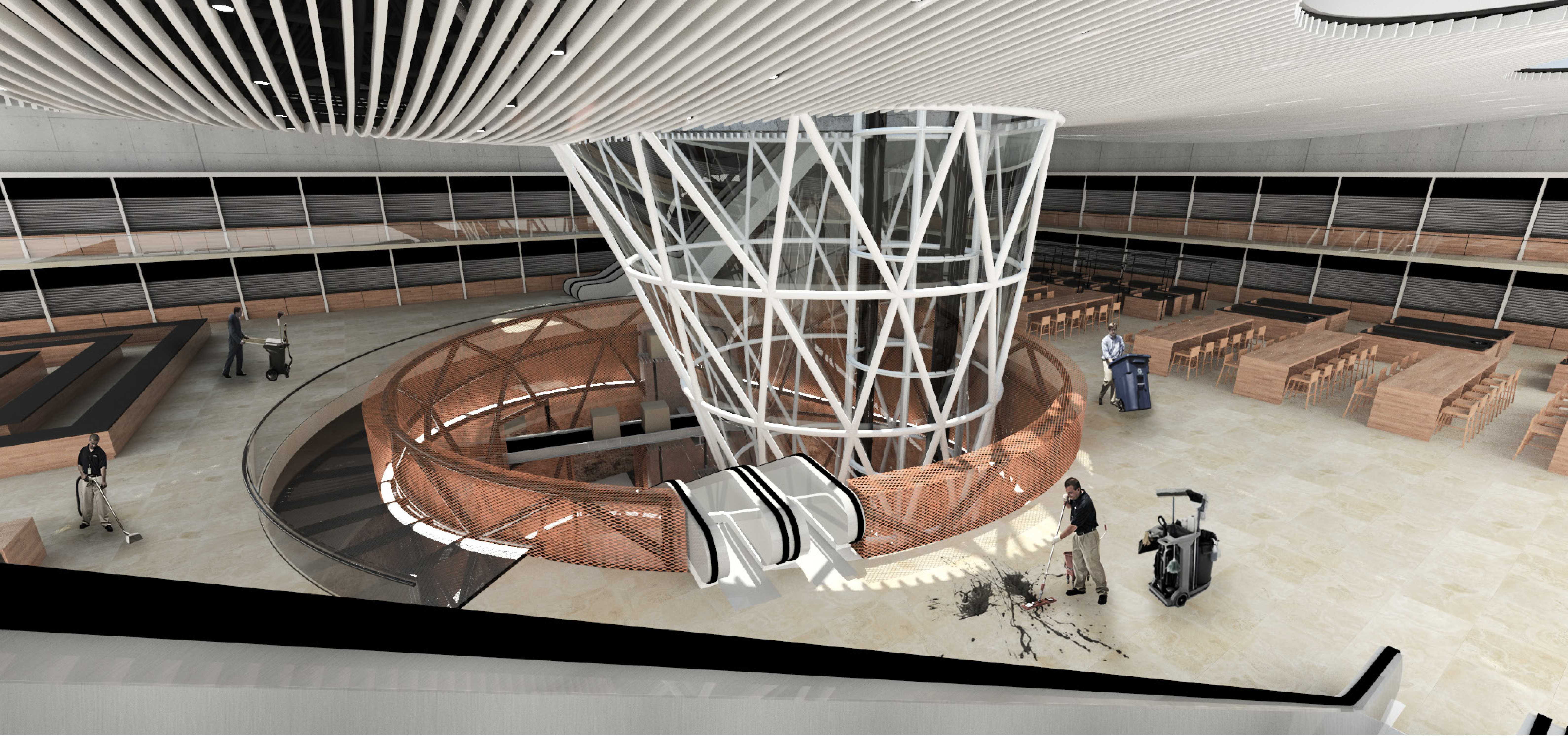


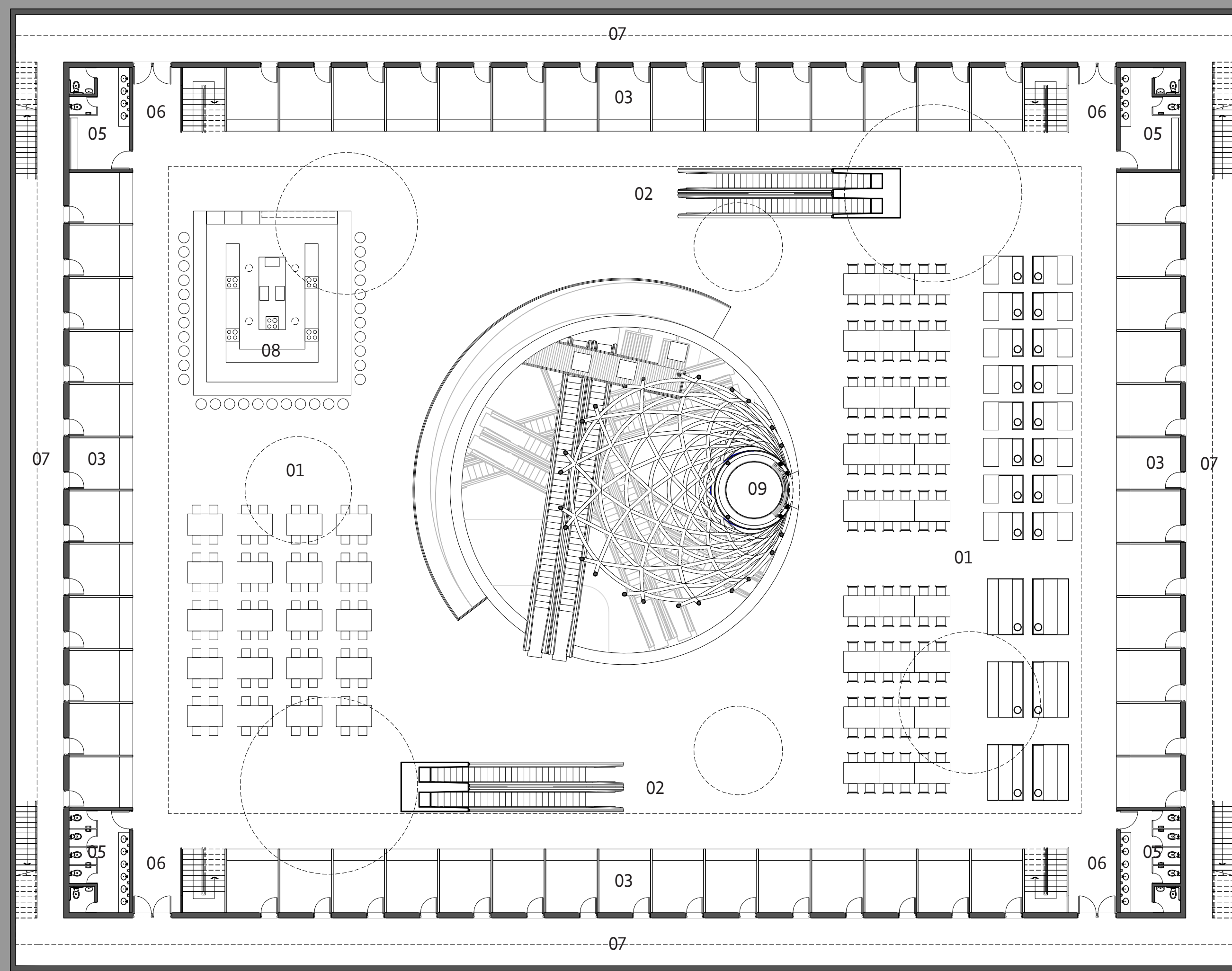
FOOD PRODUCTION CHAIN







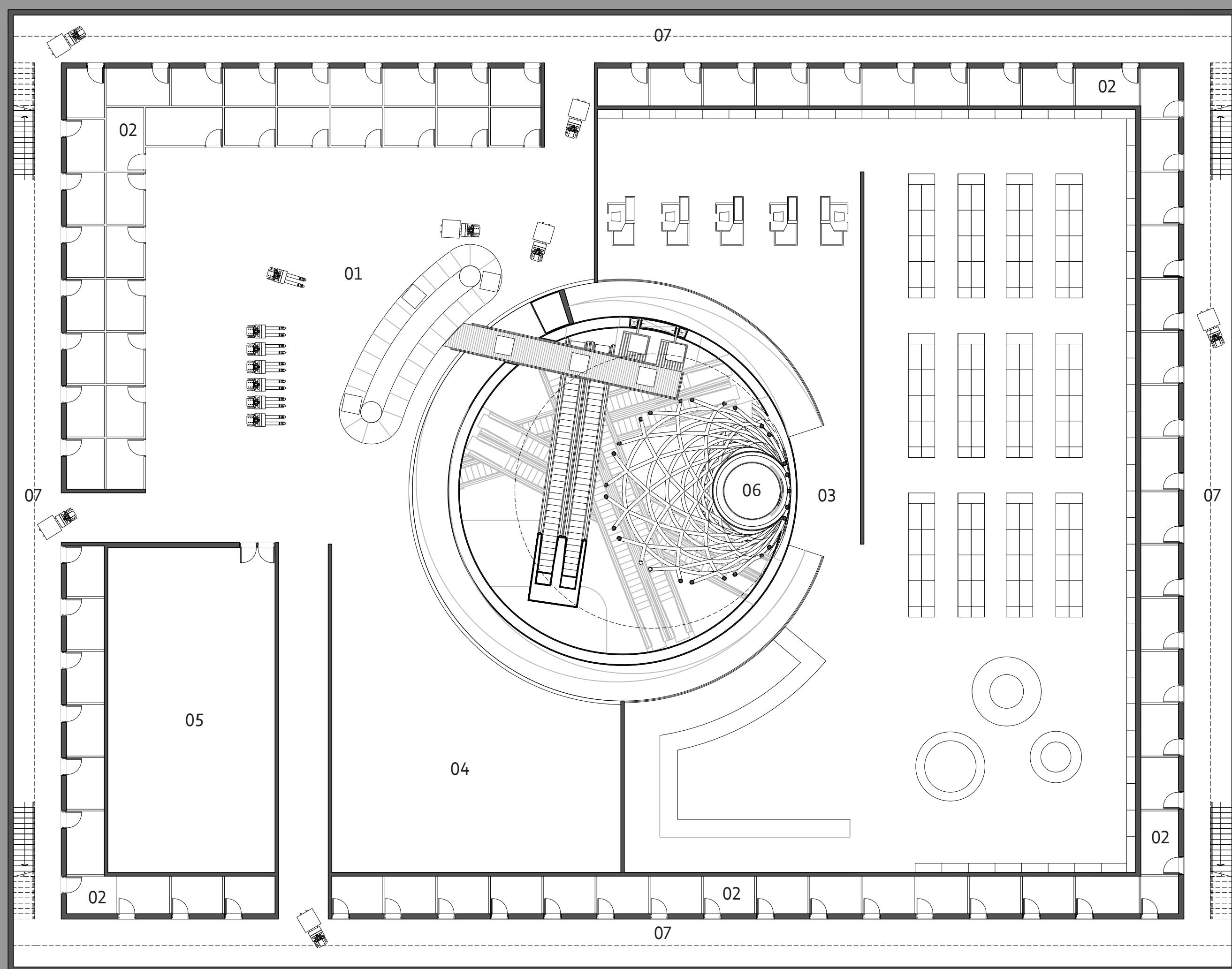




- 01. Food court
- 02. Main entrances
- 03. Stalls level 1
- 04. Stalls level 0
- 05. Toilets
- 06. Emergency exit
- 07. Technical/ventilation void
- 08. Open kitchen
- 09. Urban elevator

0 5 15 50

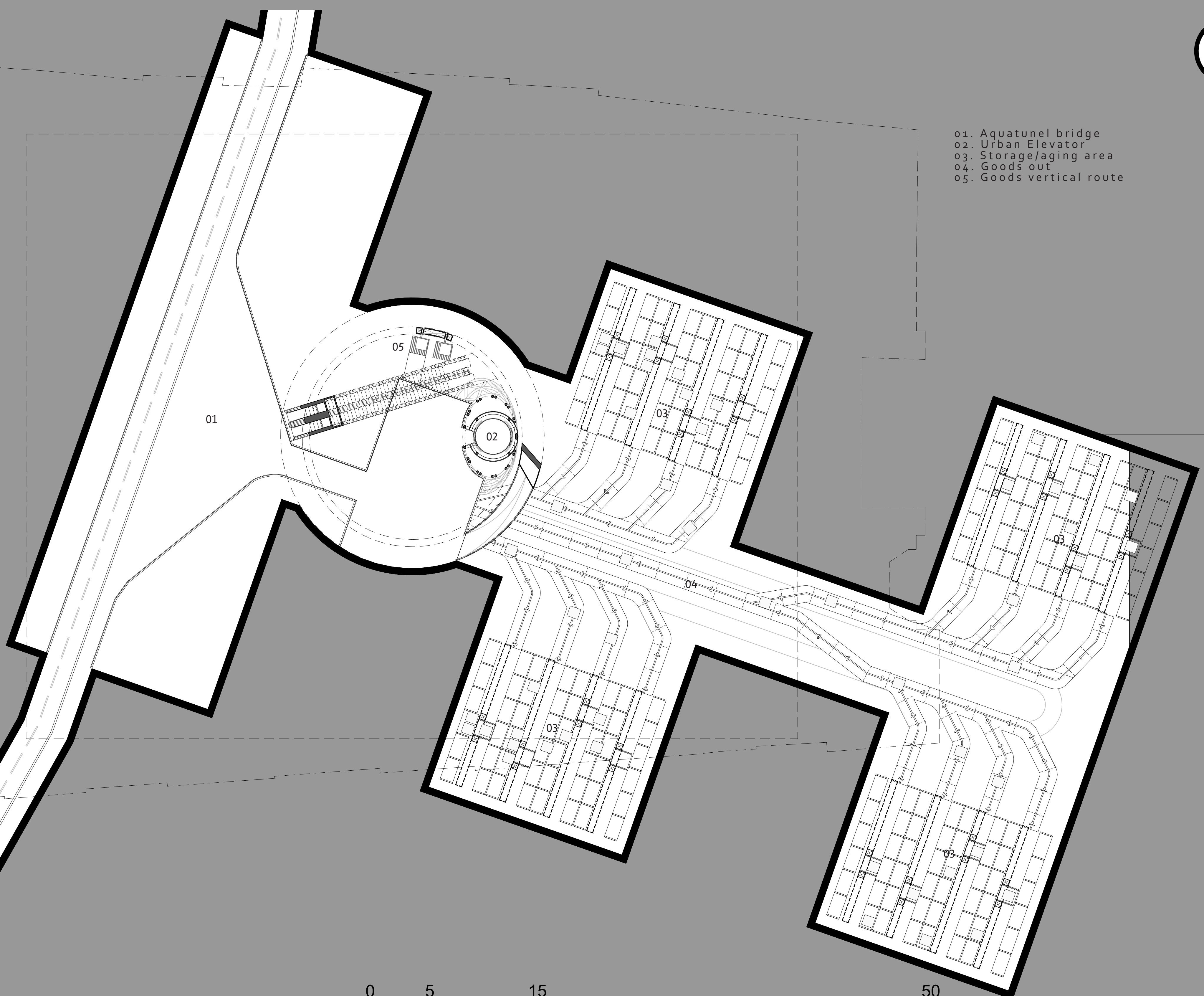
MARKET HALL LEVEL
scale 1:200



- 01. Deliveries
- 02. Private storage units
- 03. Supermarket
- 04. Supermarket storage
- 05. Employees area
- 06. Urban elevator
- 07. Distribution route

0 5 15 50

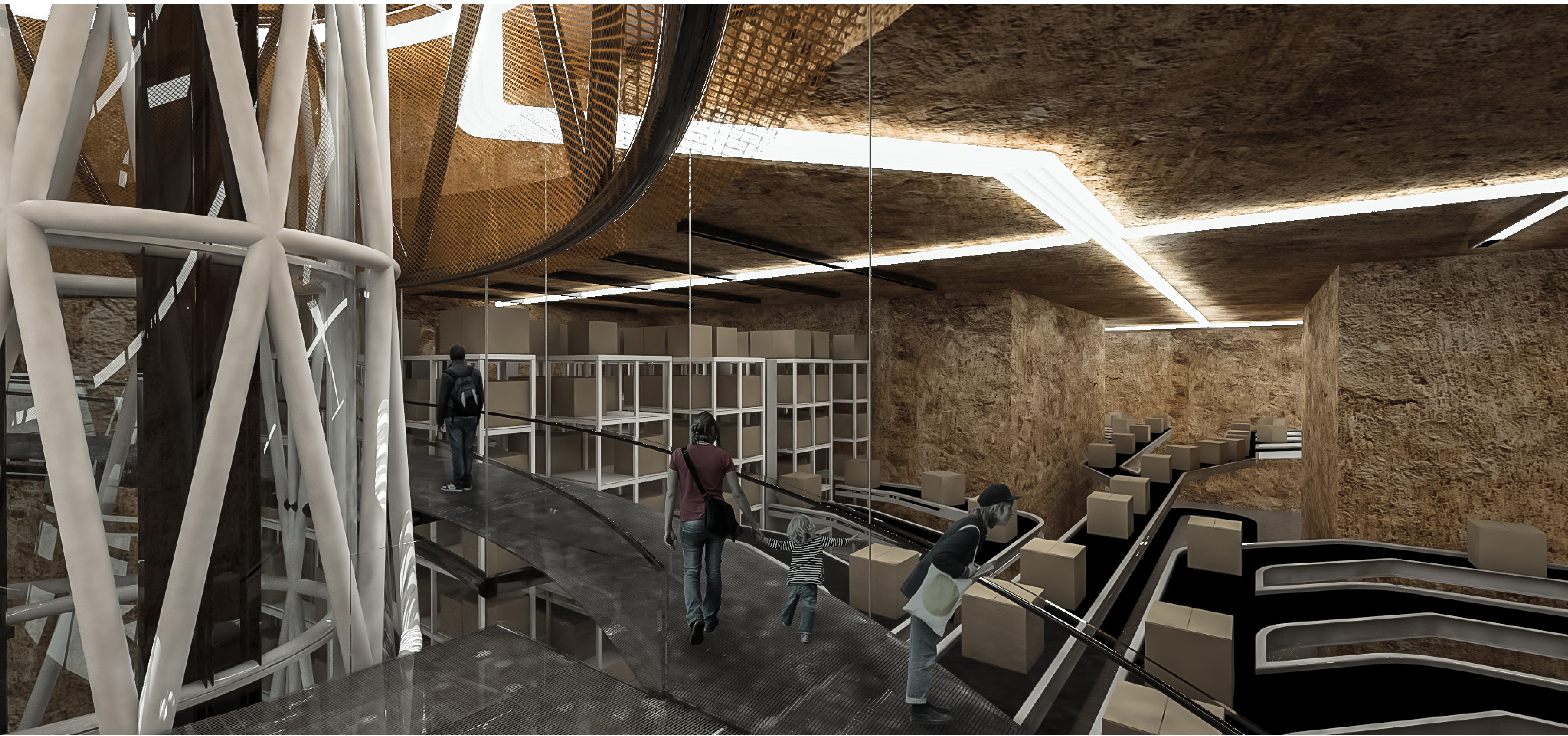
SUPERMARKET & STORAGE LEVEL
scale 1:200

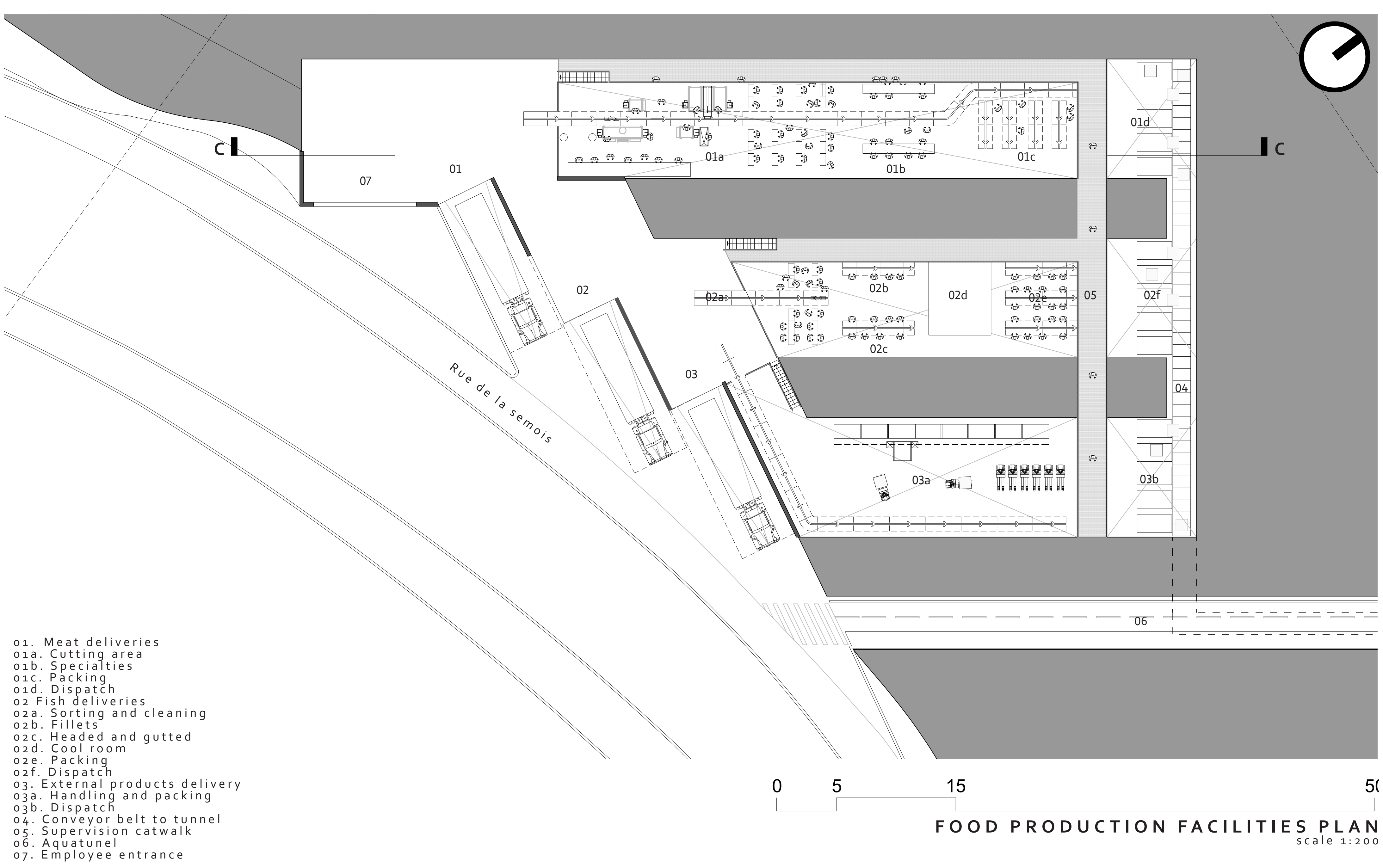
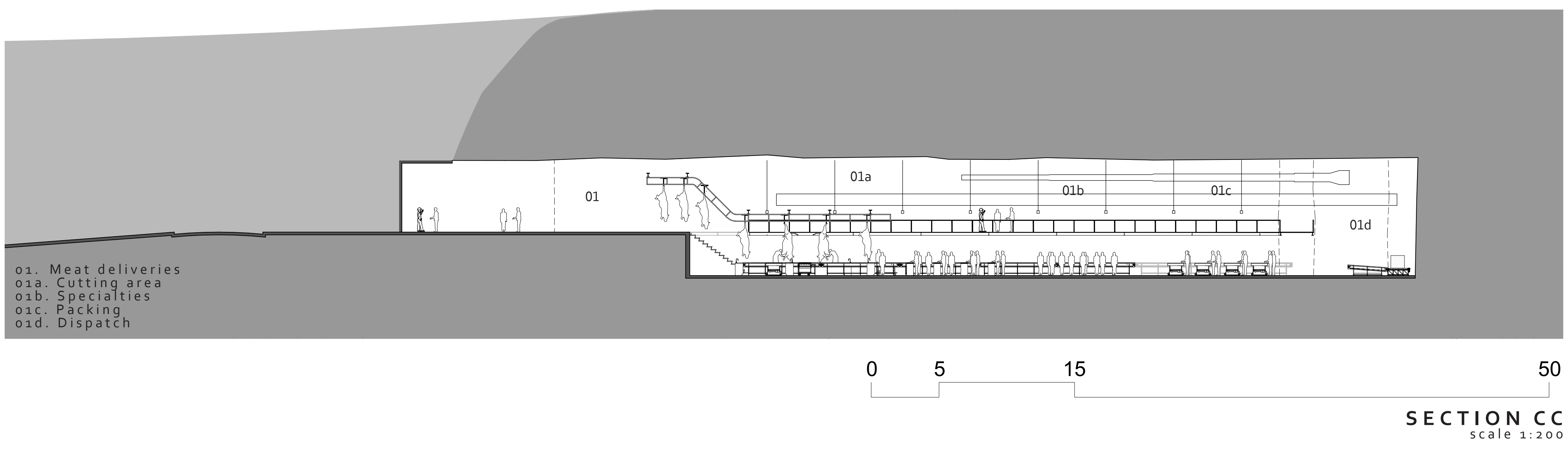
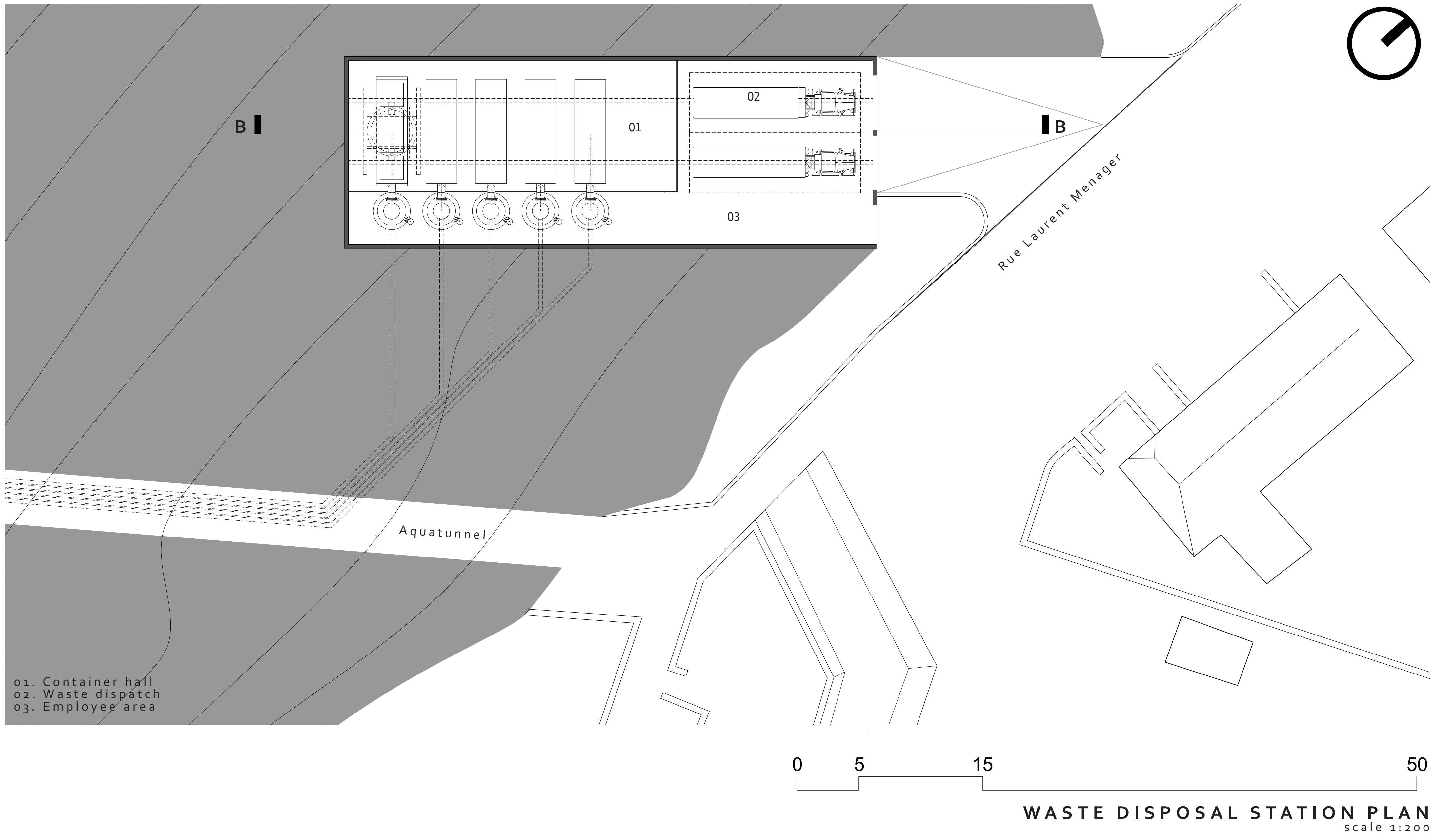
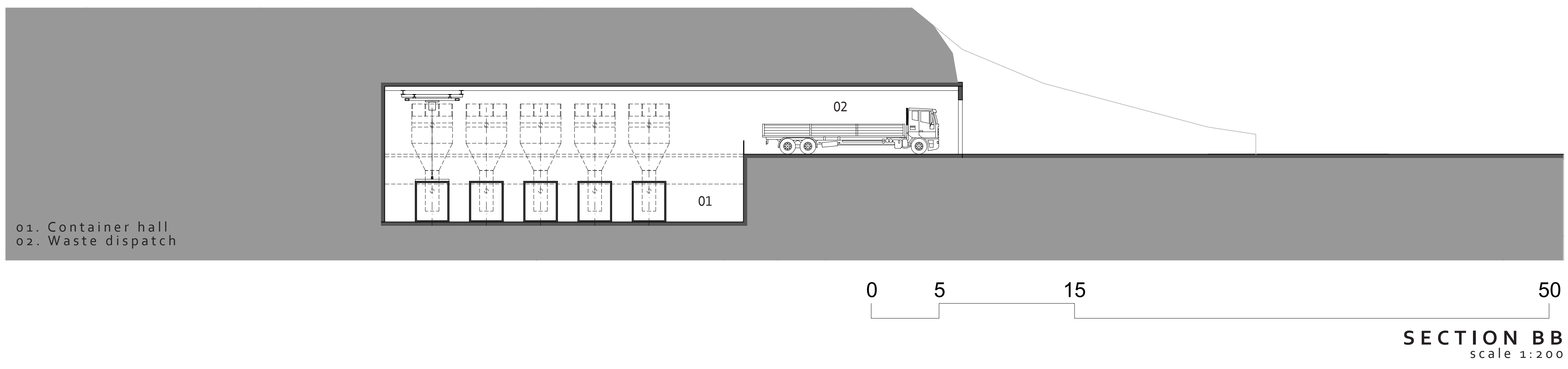


- 01. Aquatunnel bridge
- 02. Urban Elevator
- 03. Storage/aging area
- 04. Goods out
- 05. Goods vertical route

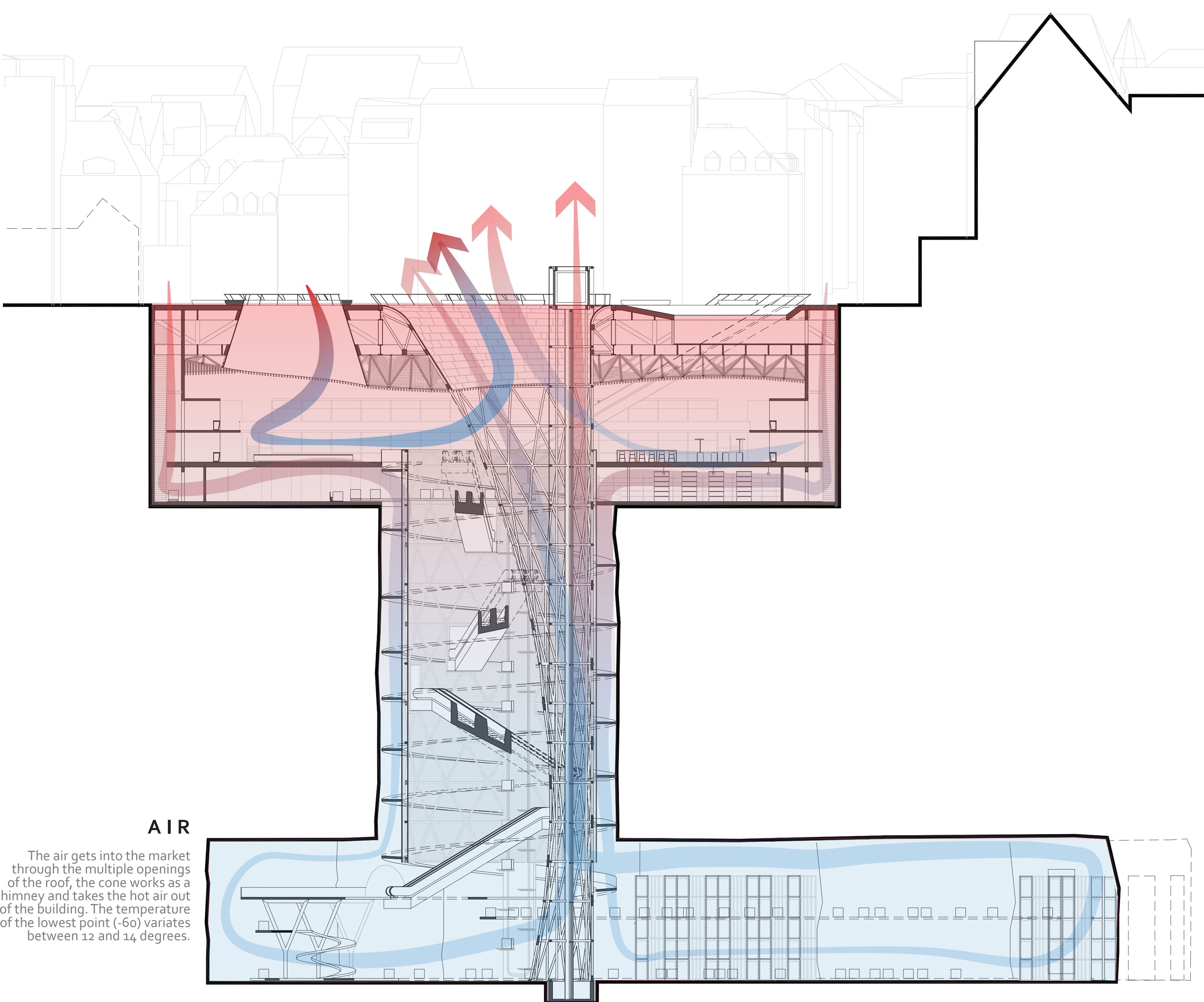
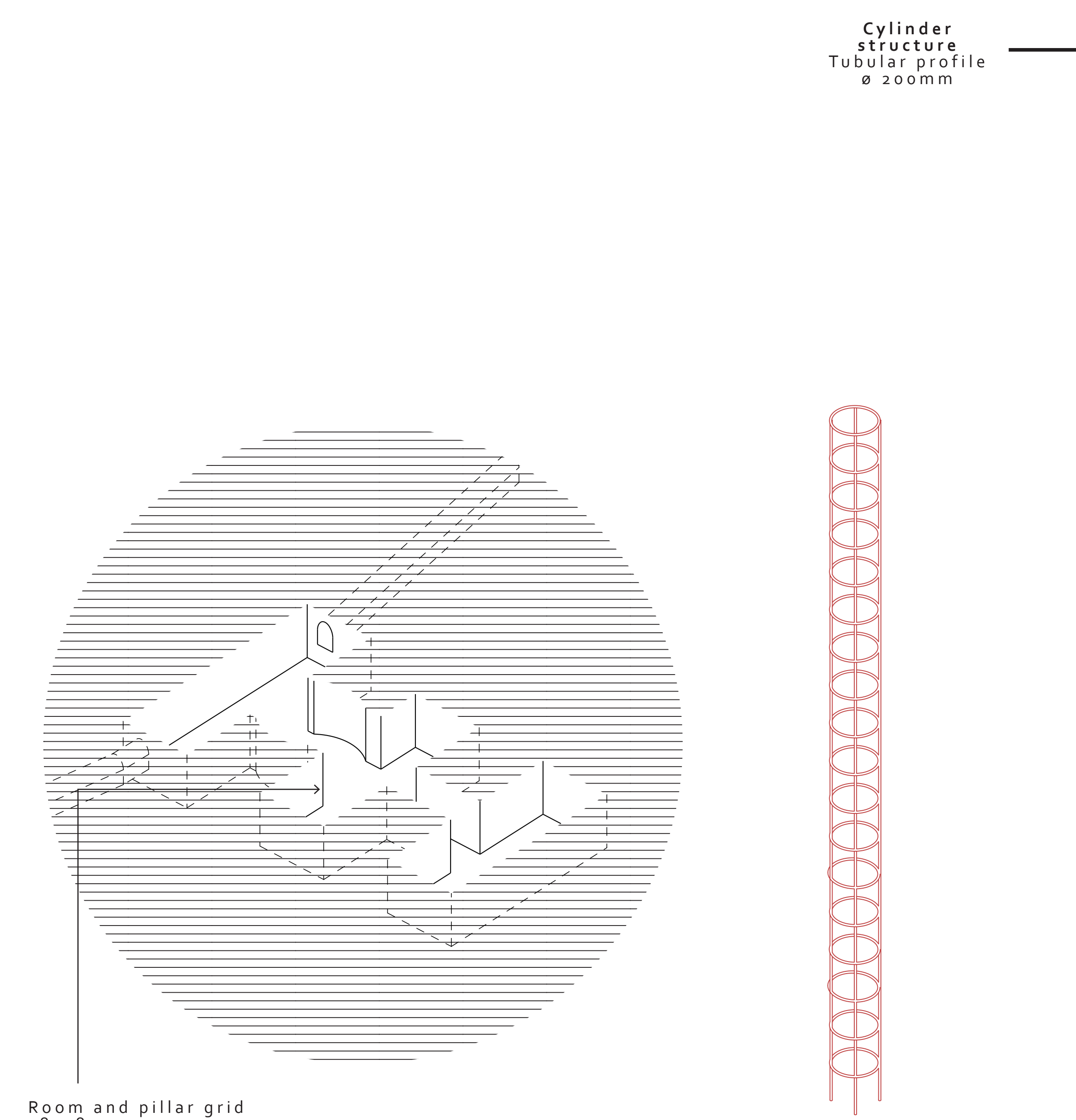
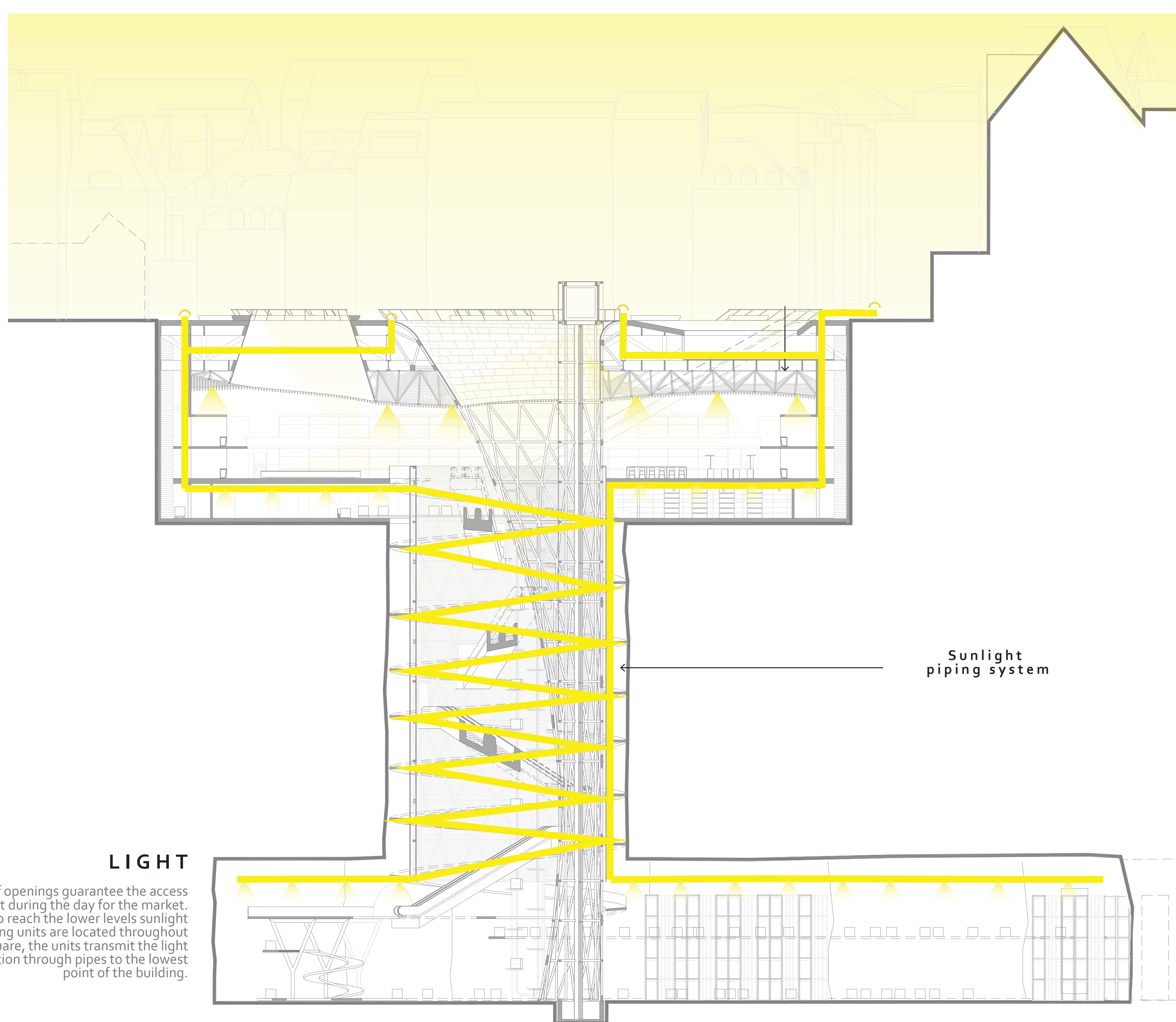
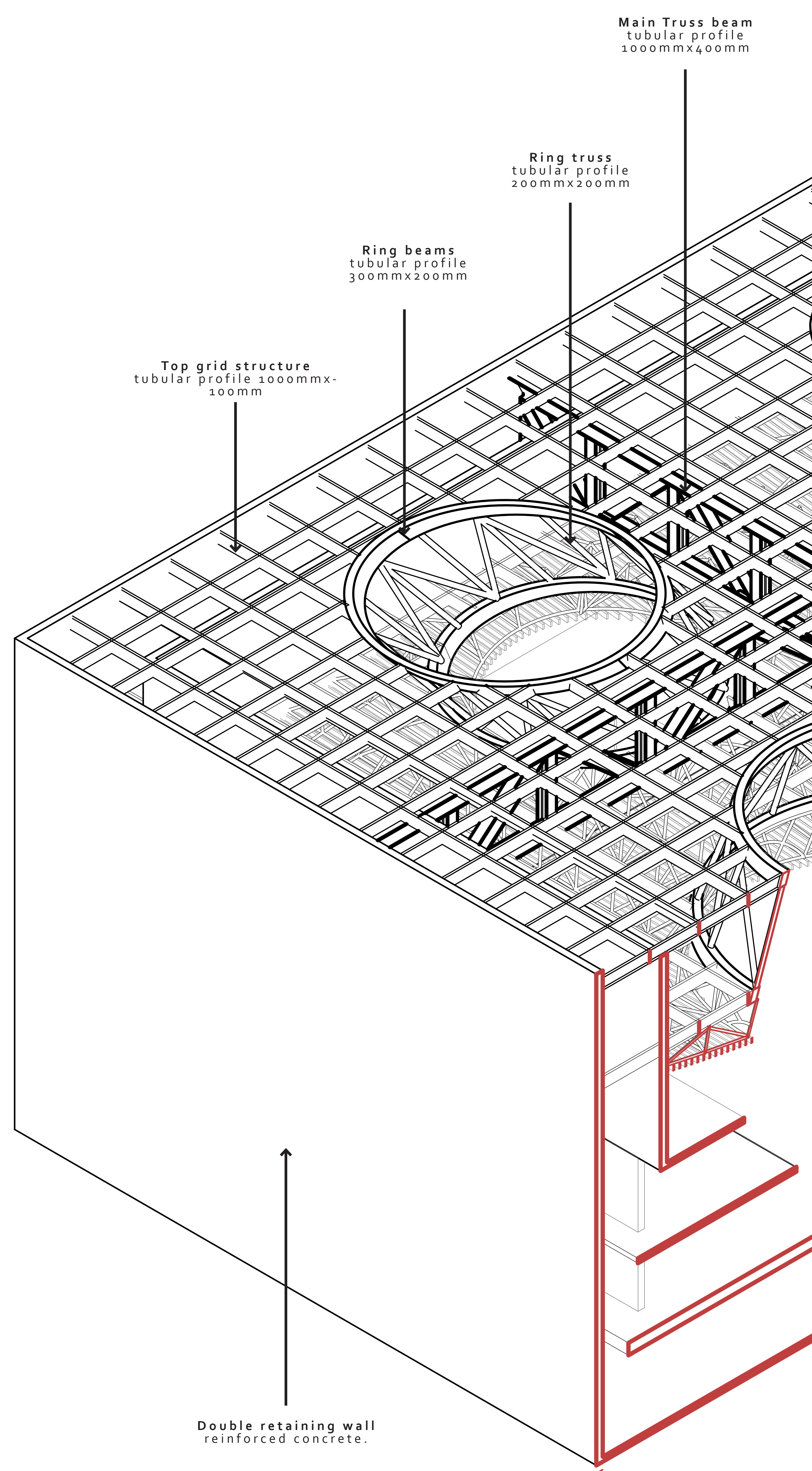
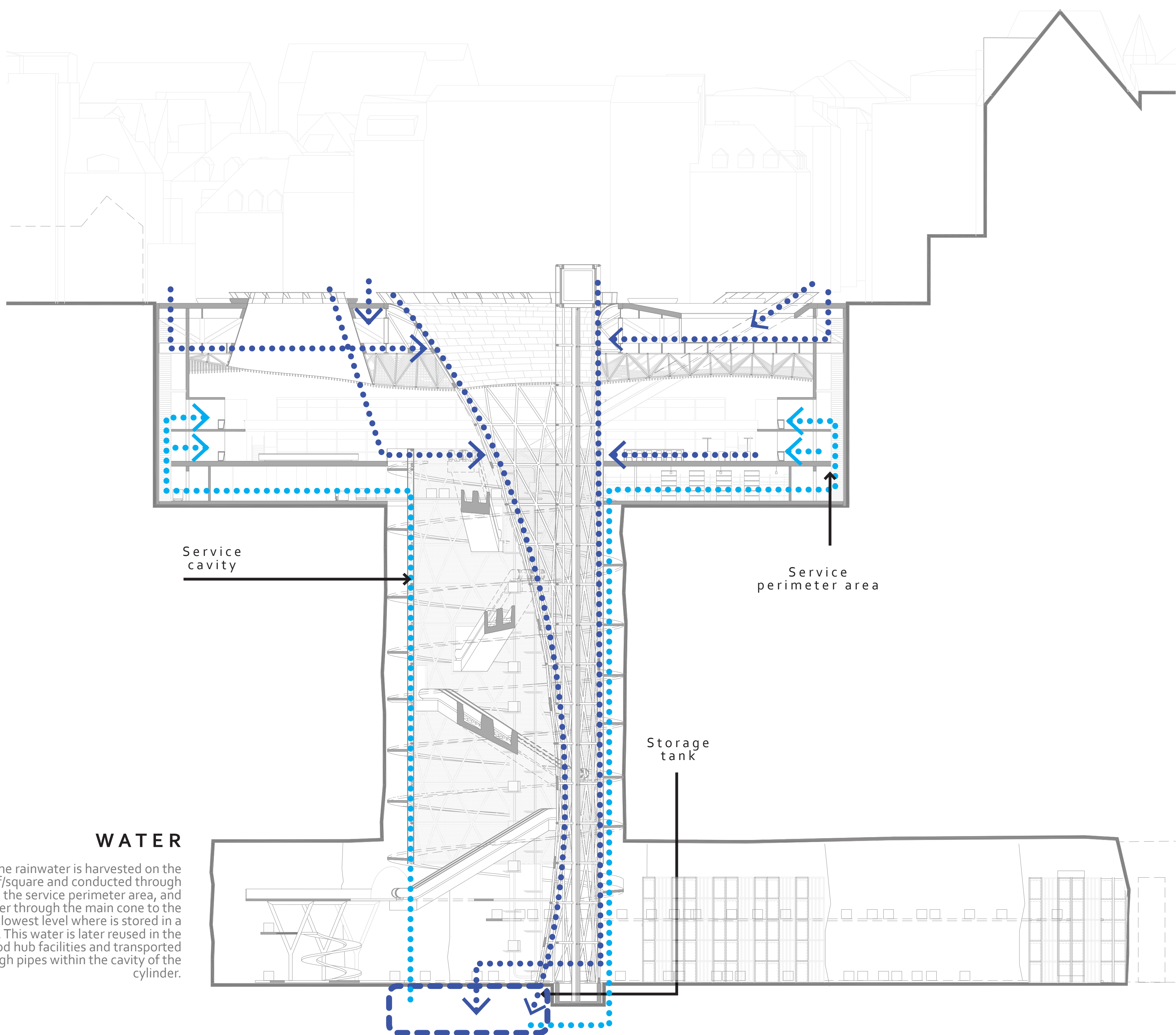
0 5 15 50

AGING/STORAGE LEVEL
scale 1:200







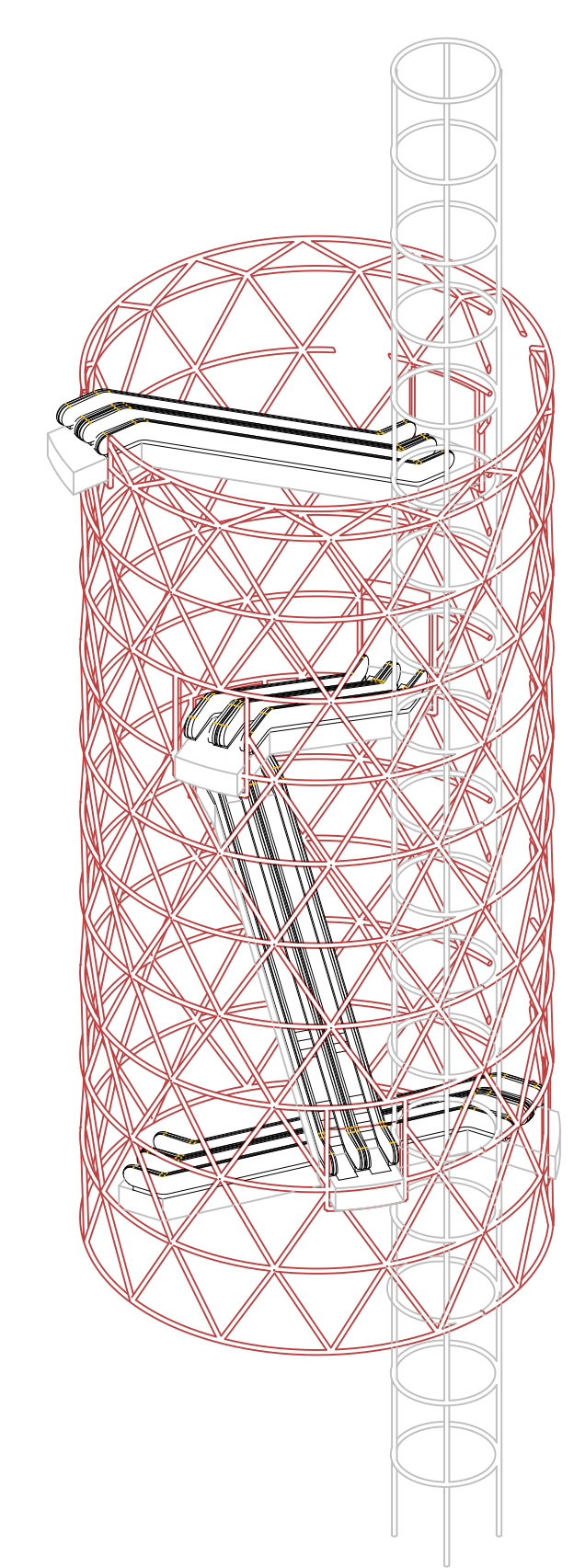
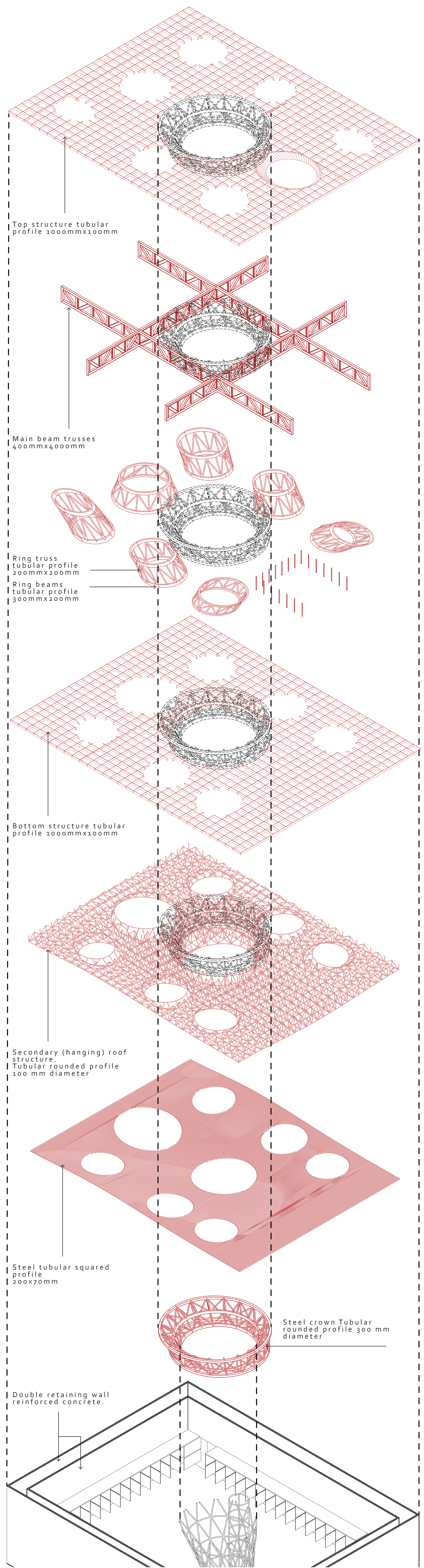
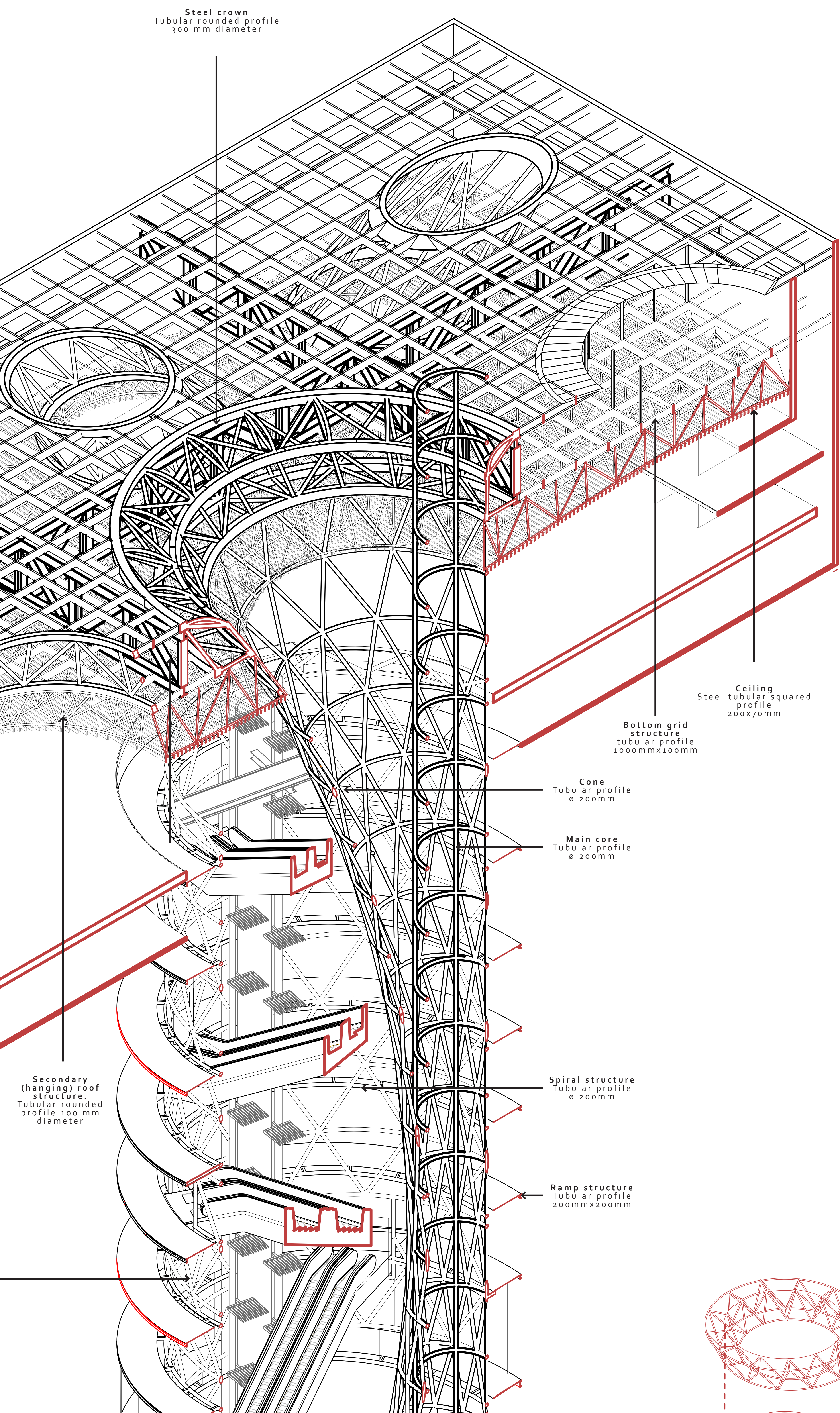


THE UNDERGROUND

The underground structures are supported by a technique used in mining called Room and pillar, where the "pillars" of untouched material are left to support the roof overburden, and open areas or "rooms" are extracted underground;

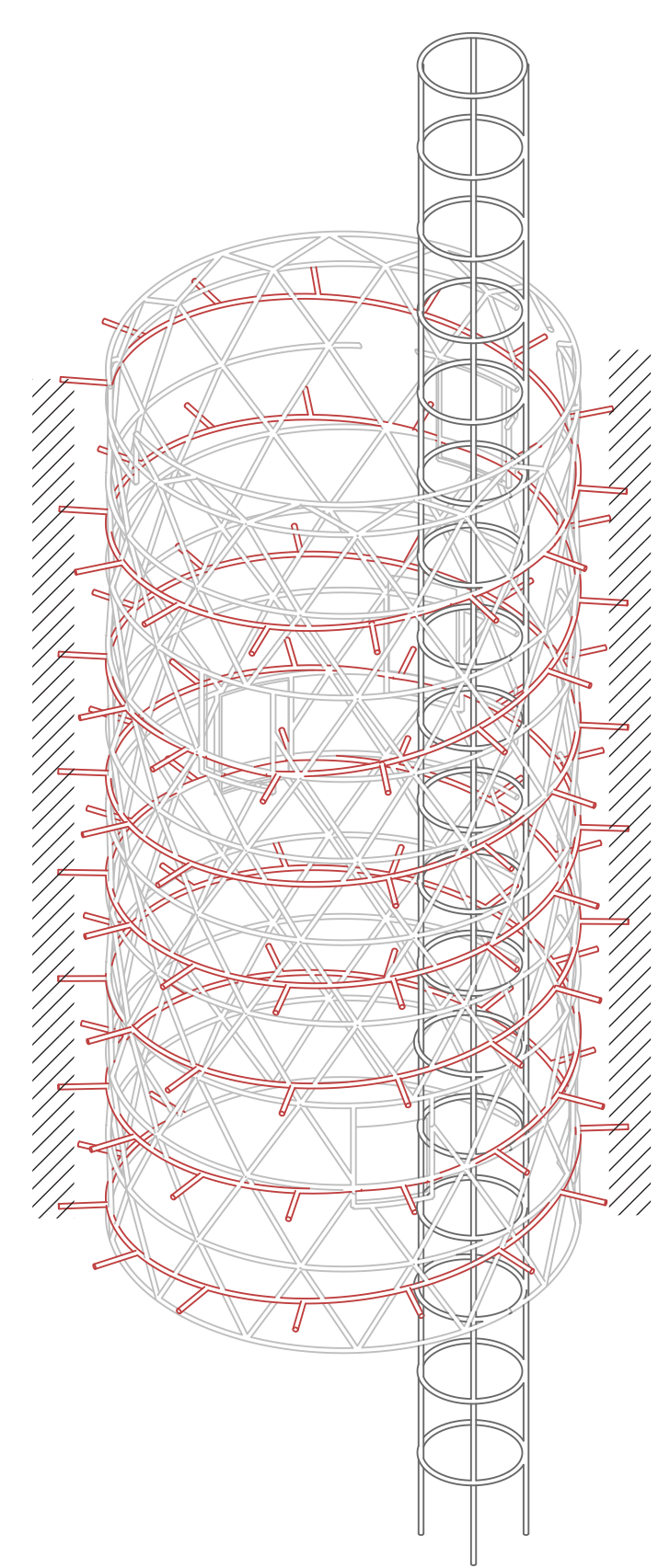
THE CORE

The elevator's structure is the main structural element and starting point.



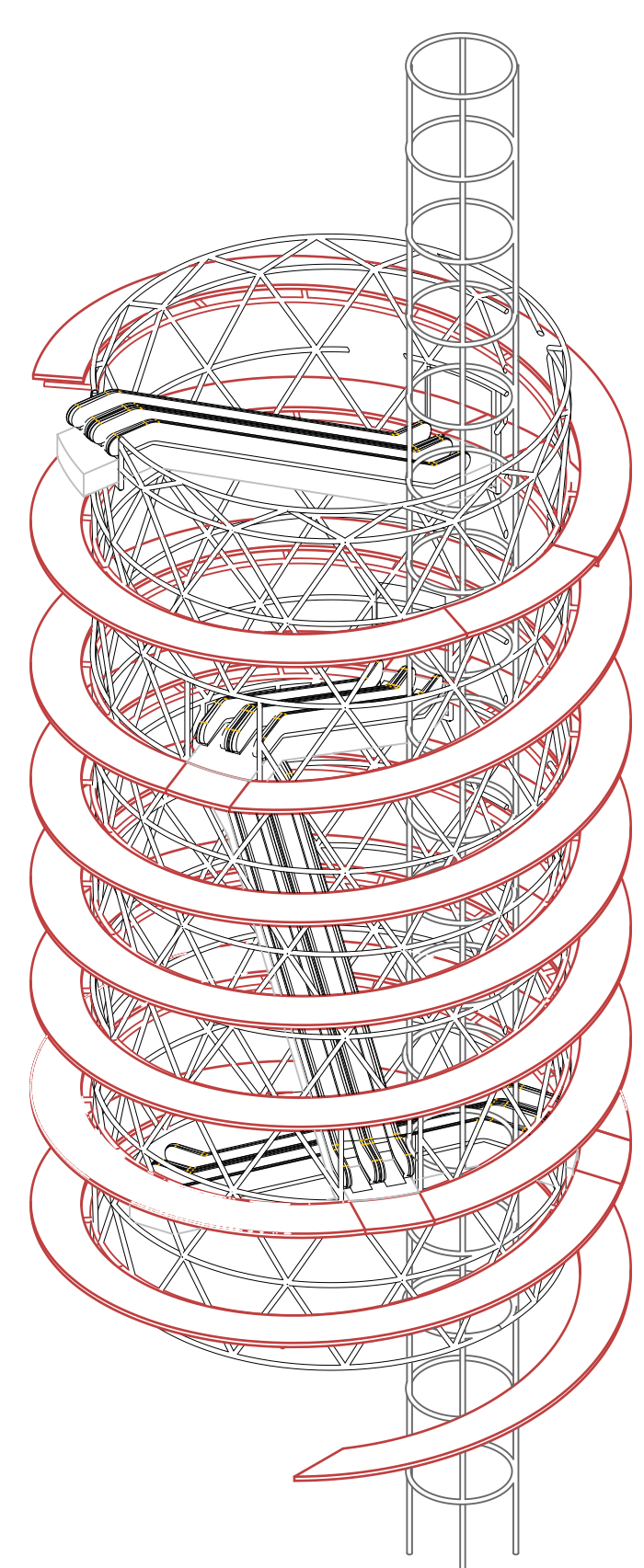
THE CYLINDER

A secondary structure is attached to the core to support the landings of the escalators, and create a visible gap between the main cylinder and the sandstone.



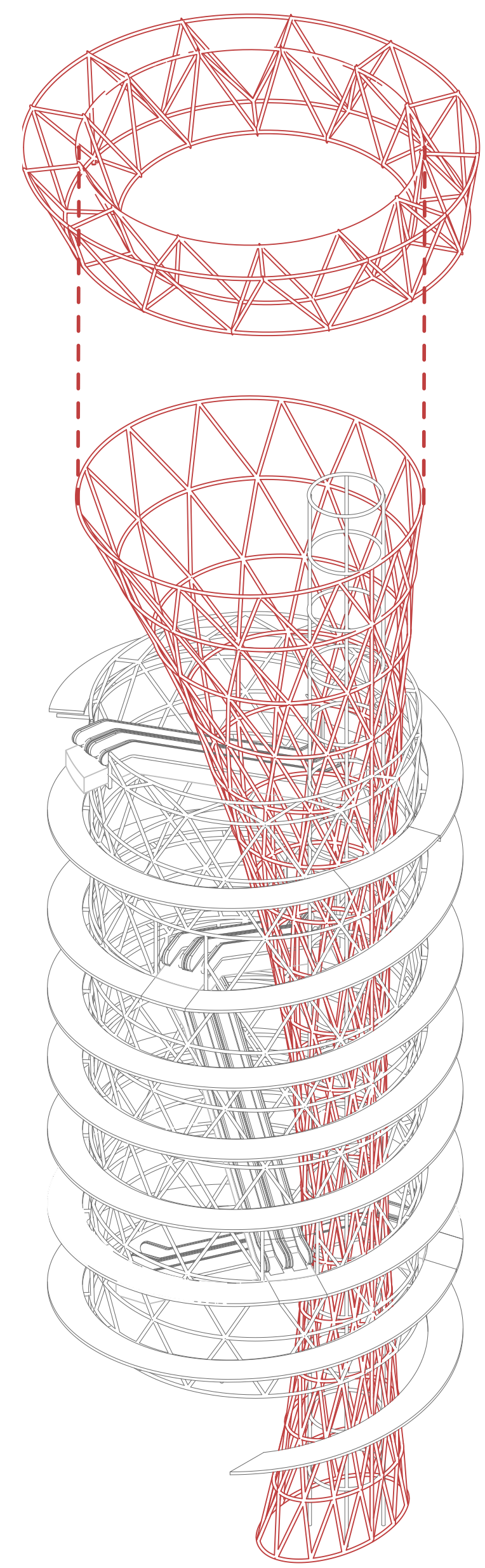
THE SPIRAL

A tubular spiral wraps the cylinder and attaches it to the underground sandstone by small perpendicular beams.



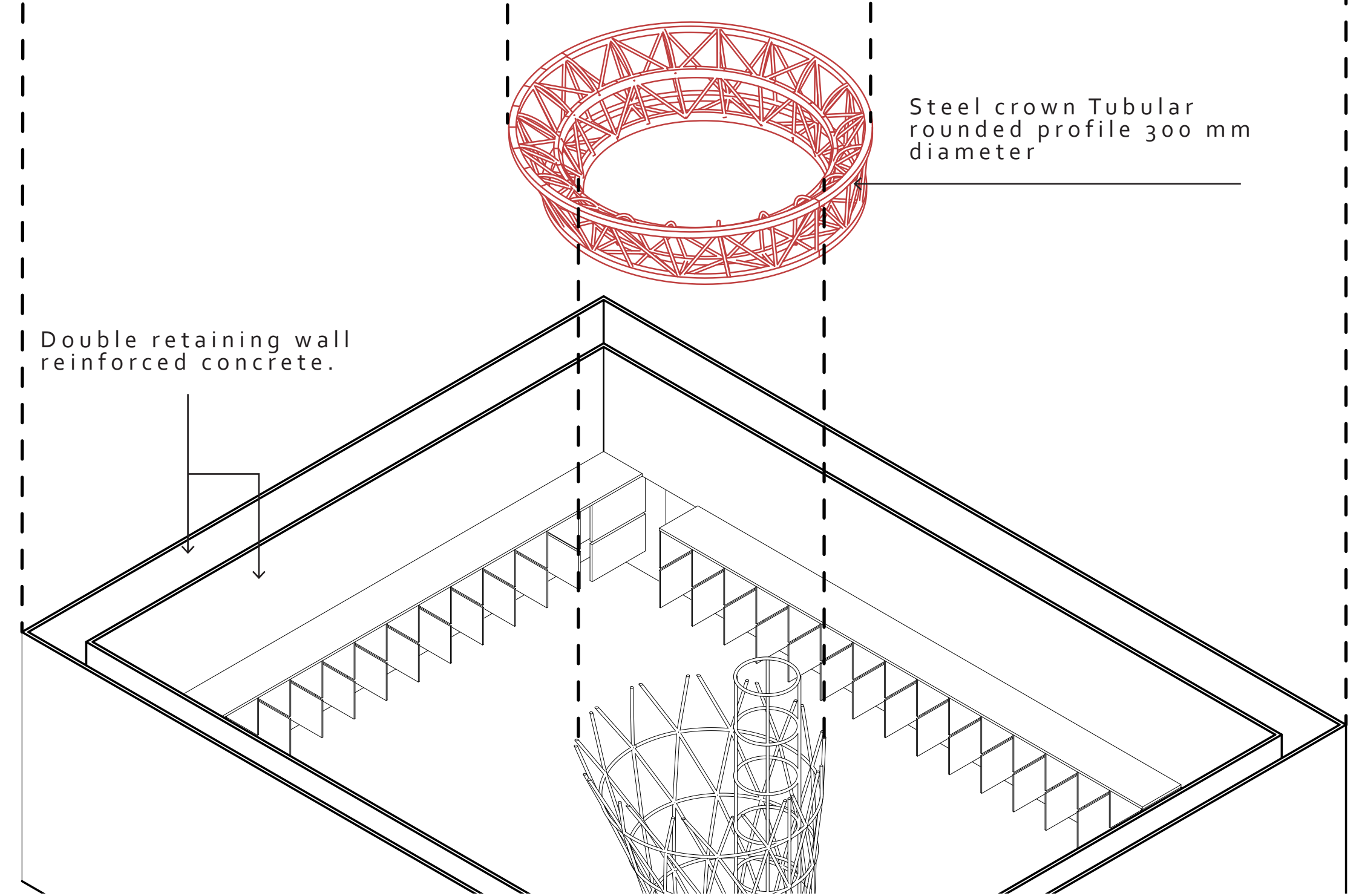
THE RAMP

The ramp lies on top of the beams coming from the spiral and also works as a structural element.



THE CONE

The conical shape also wraps the core and the cylinder providing extra stiffness and it extends to the top of the square where is surrounded by a crown that works as an interface between it and the roof.



THE ROOF

The crown connects the cone with the main structure of the roof, a similar scheme is used for the other perforations, a secondary structure hangs from the main one as a ceiling from which a series of parallel profiles bend. The whole roof structure lies on the concrete walls that surround the market.

