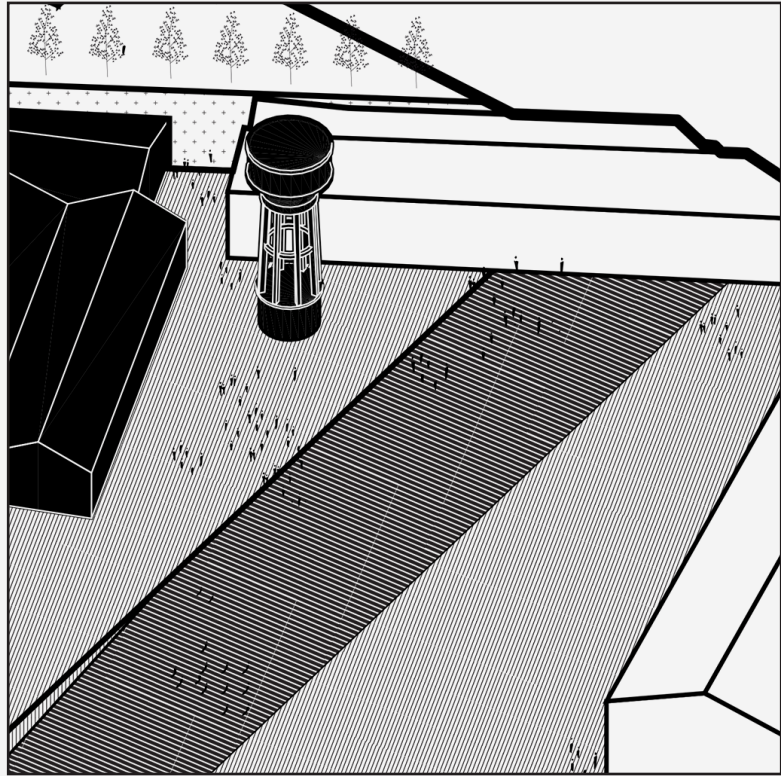
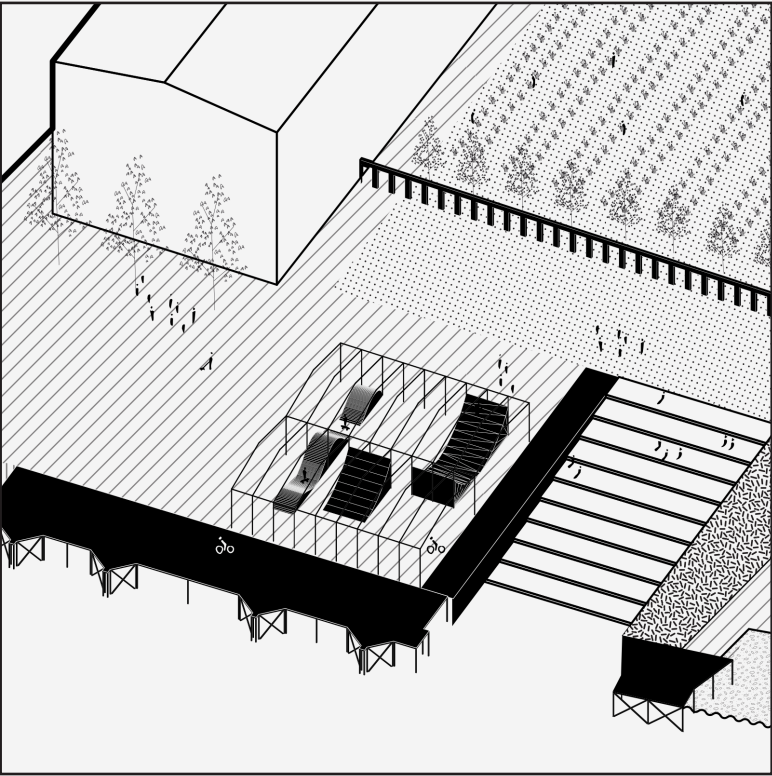
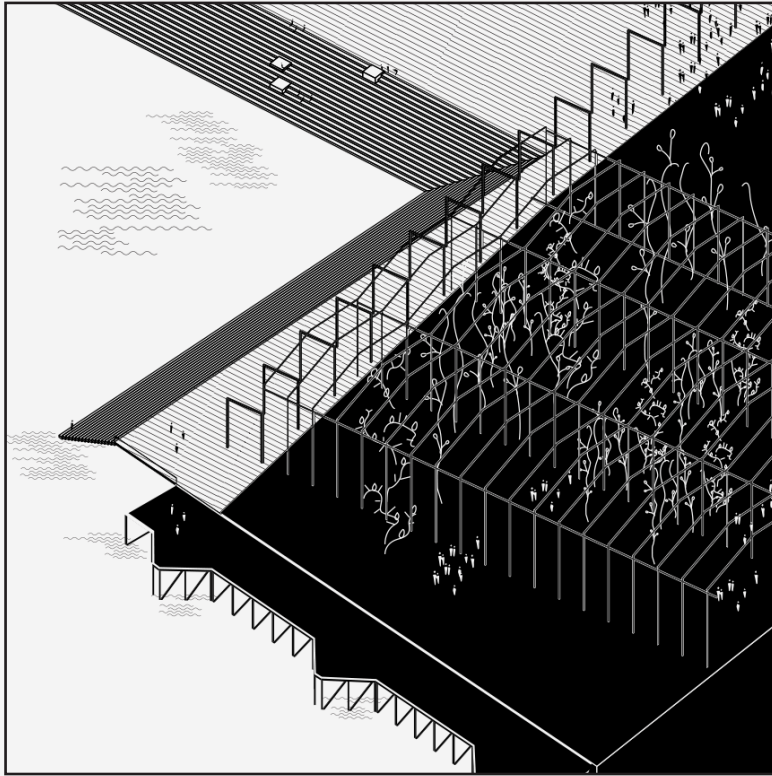
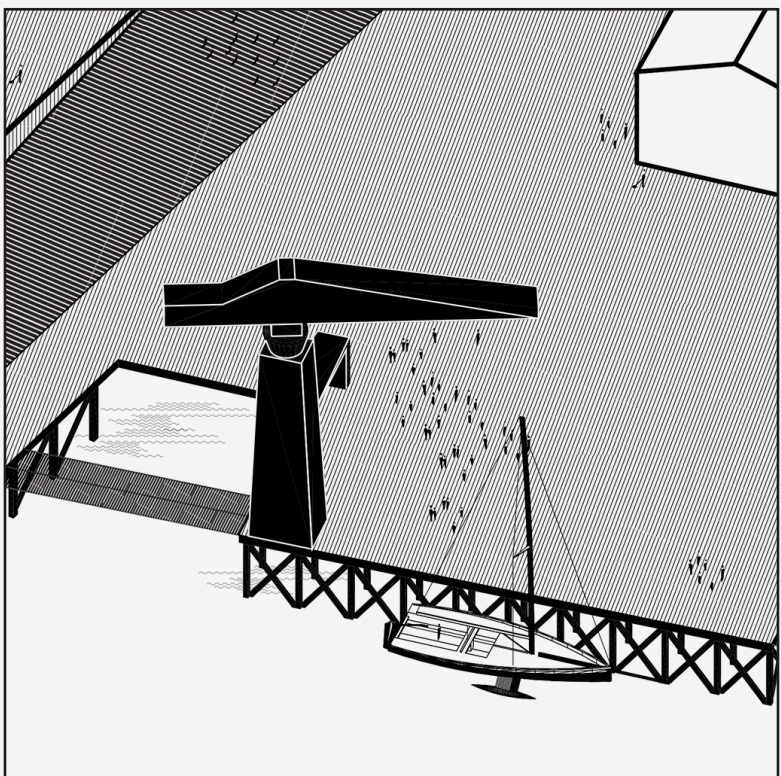
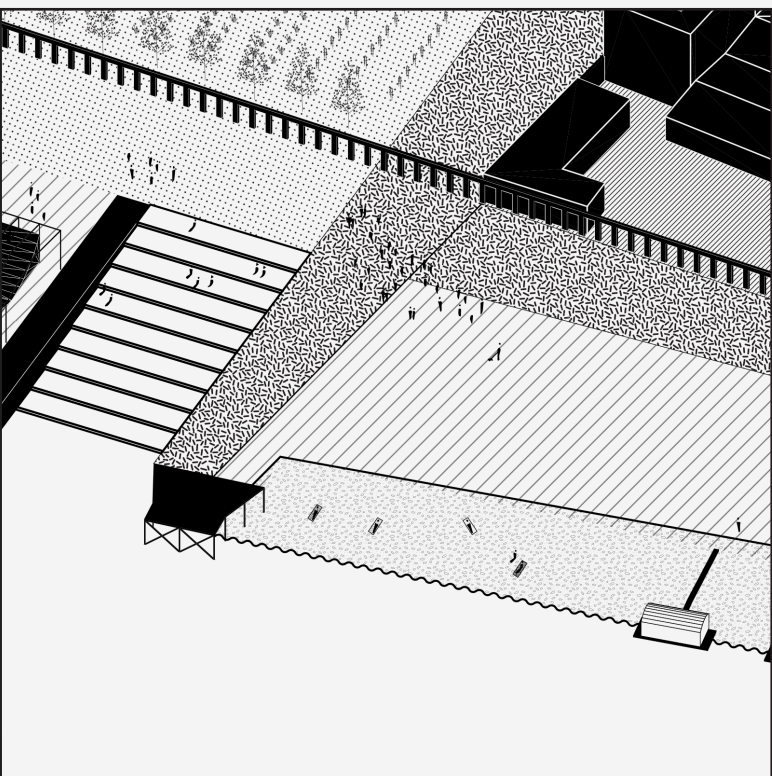
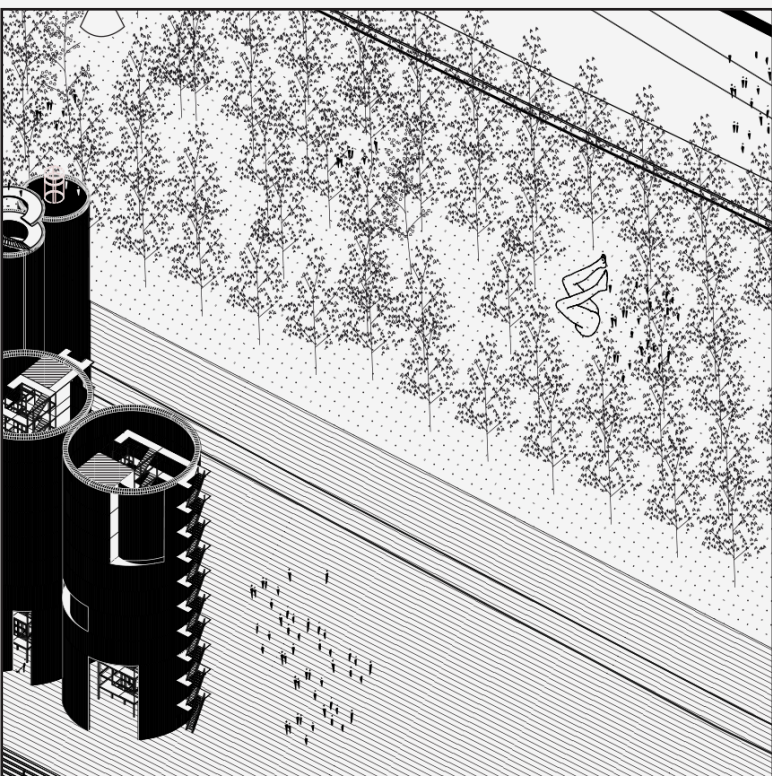
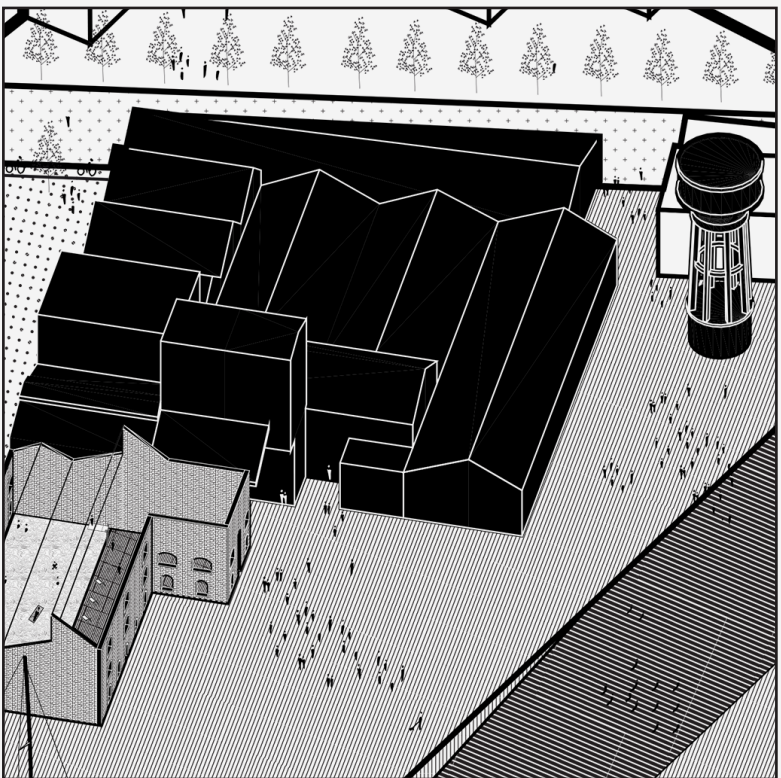
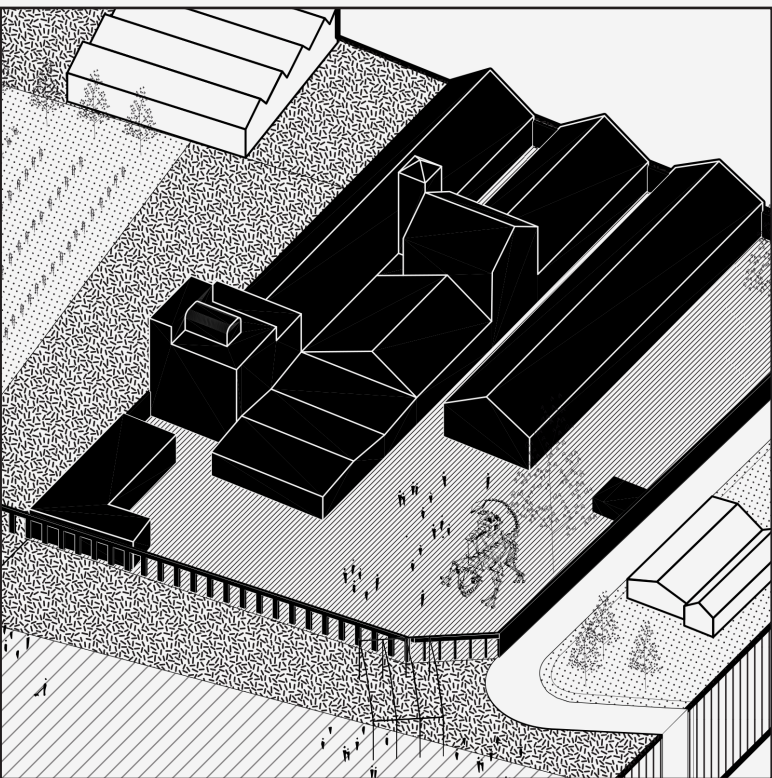
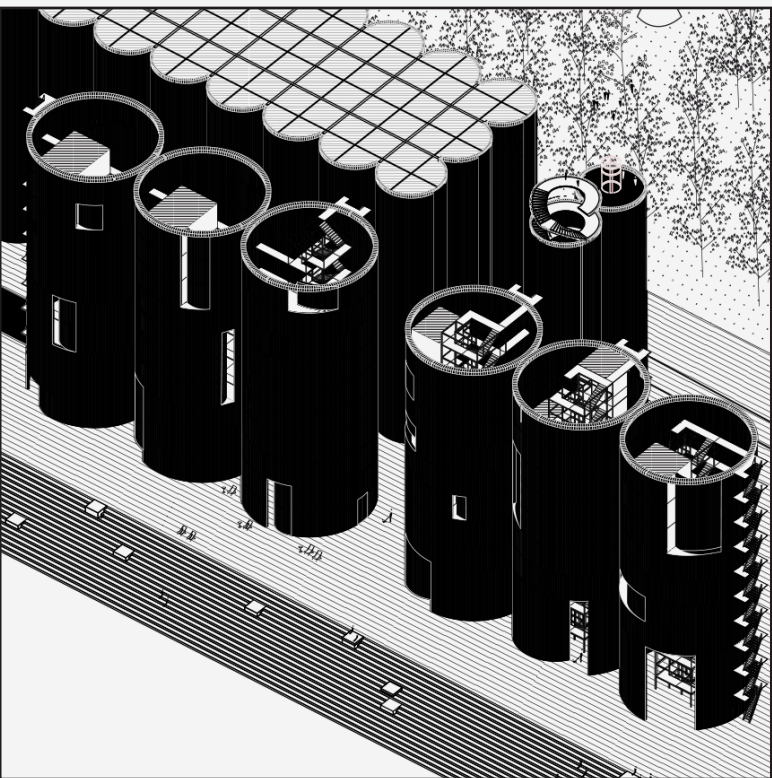
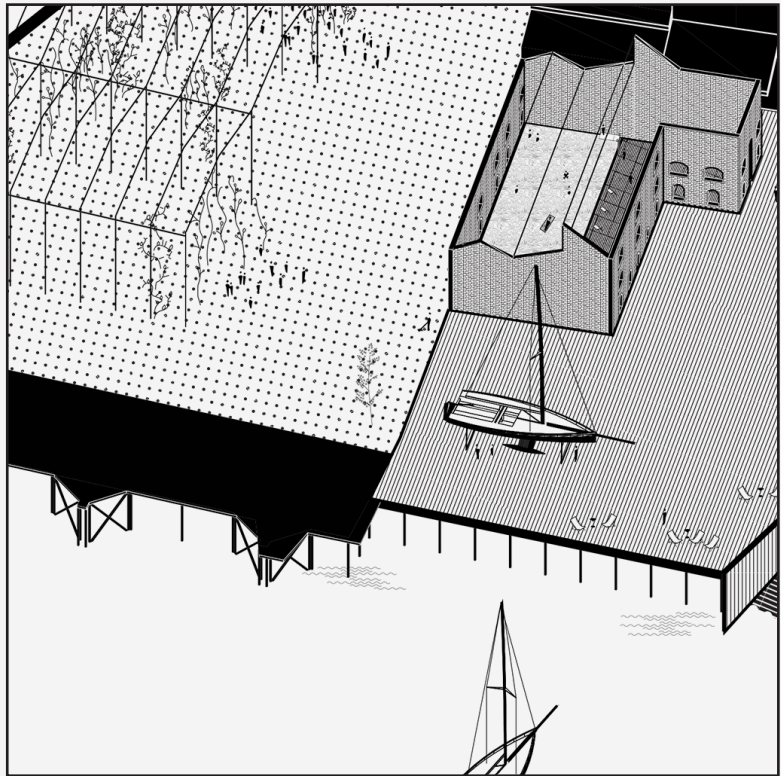
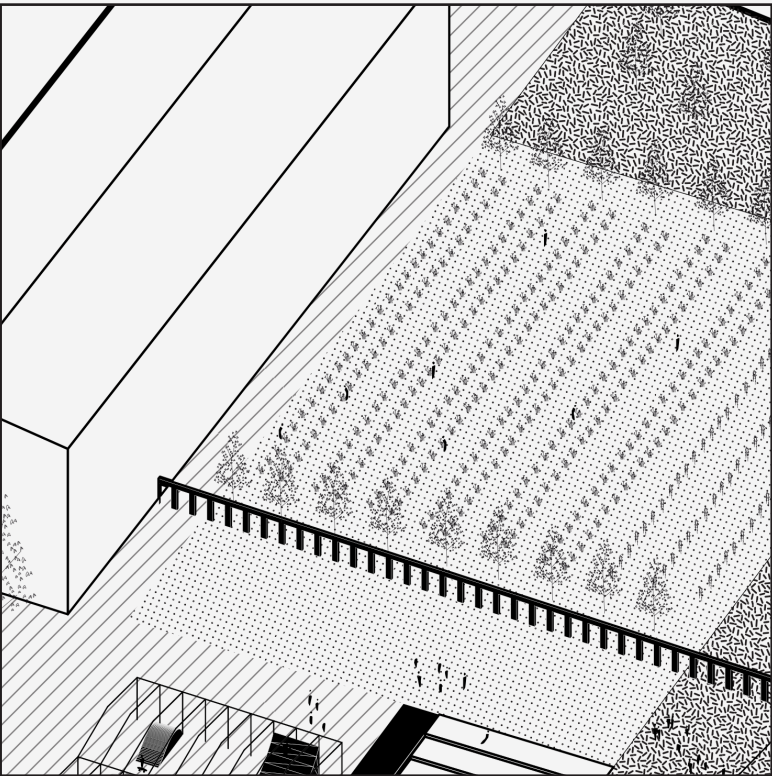
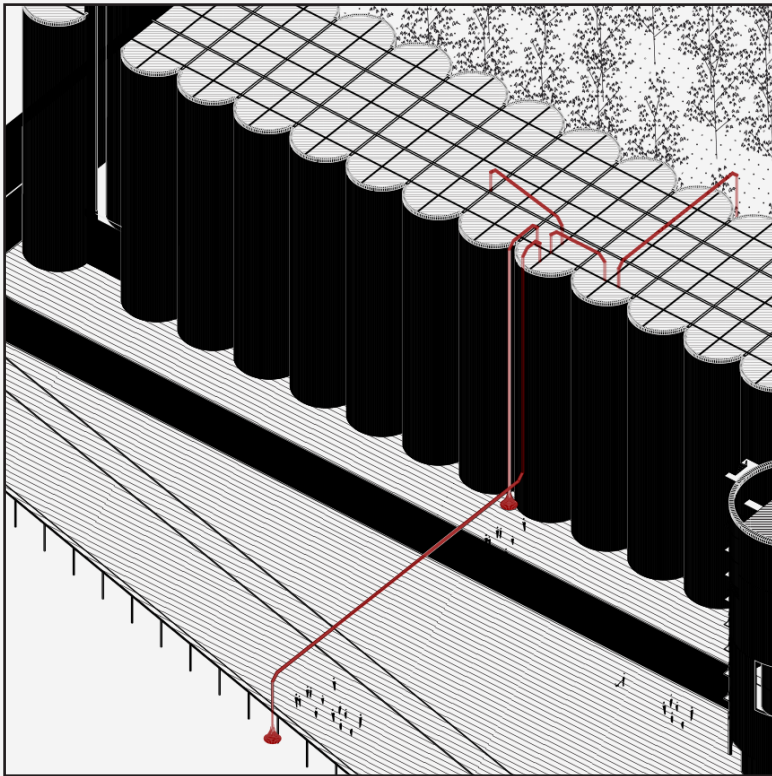
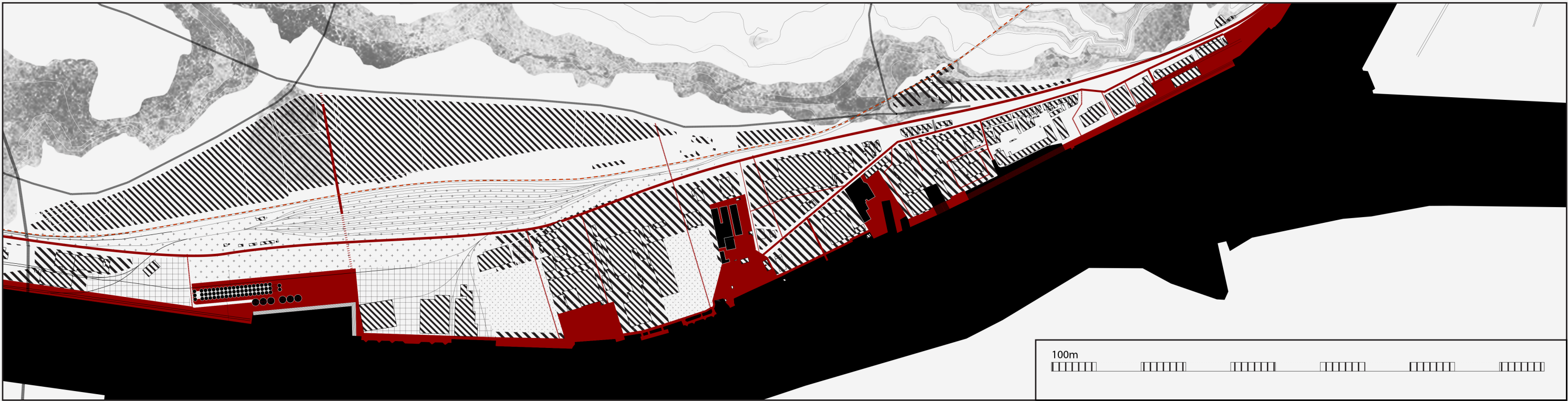


# sonoduc

## METAMORPHOSIS

The generative idea is informed by the industrial layout. There are four major transportation lines Boulevard Maréchal Juin, Rue des Usines, rails and river Loire. For centuries those lines served as connections for transporting. Two proposed bridges mitigate against the barrier effect of rails and connect the site with residential areas and river front. Main urban matrix based on the industrial heritage is seeking to introduce human scale to the proposed developmen. River line is extending and forming public space towards three main points, referenced as historical landmarks in the analytical part.



### Sonoduc silo

Terminates journey from city. Architecture is supported by gentle sound emanating from structure.

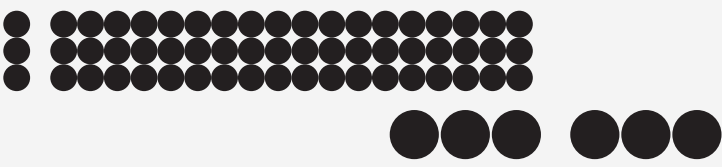
### Royal De luxes

Factory of wonder, dream of every child, exhibition public space, street theatre.

### l'Esclain

Oldest building of area, always served as shipyard for sailing boats and sailors club. New uses include swimming pool.



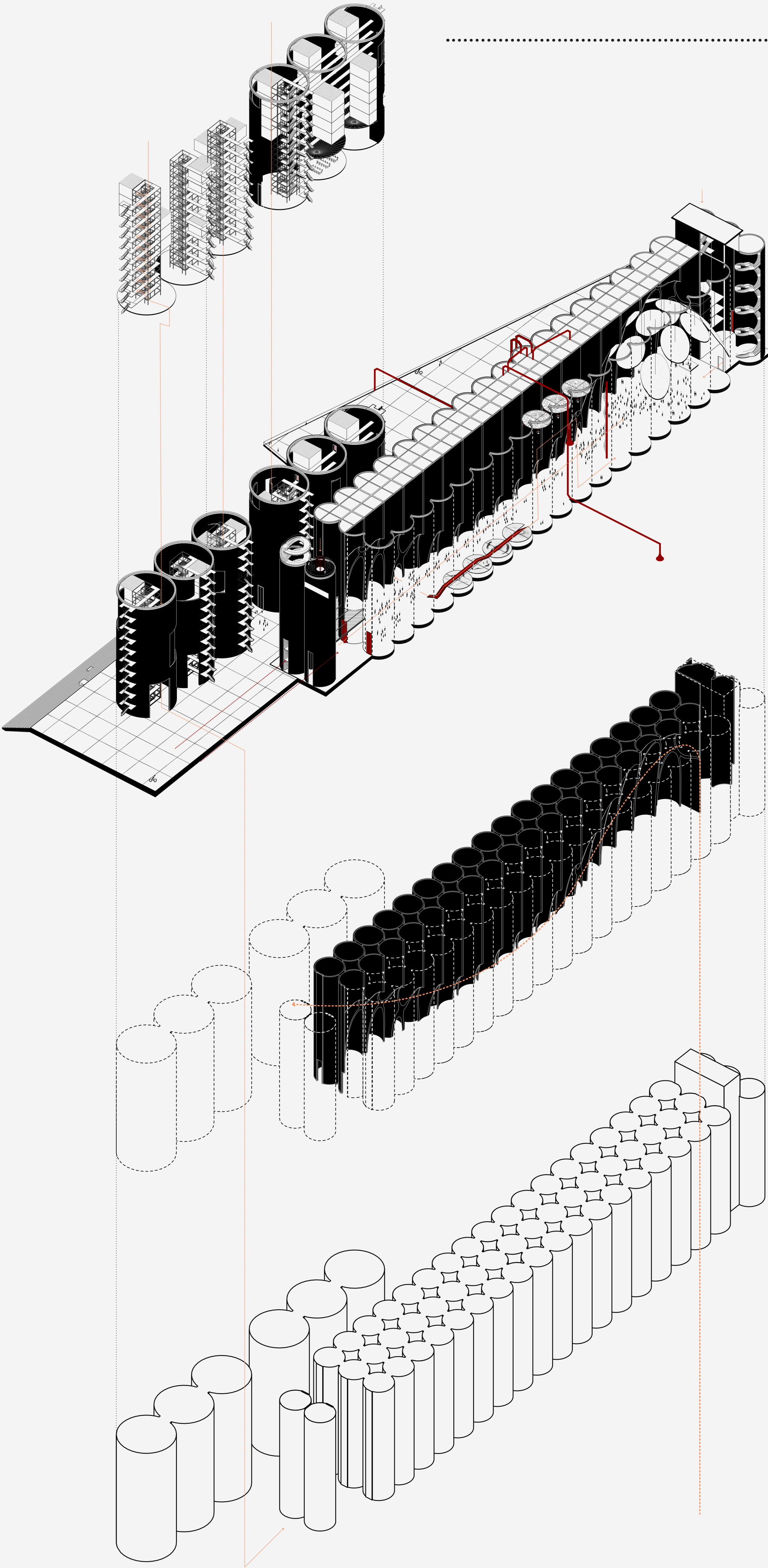
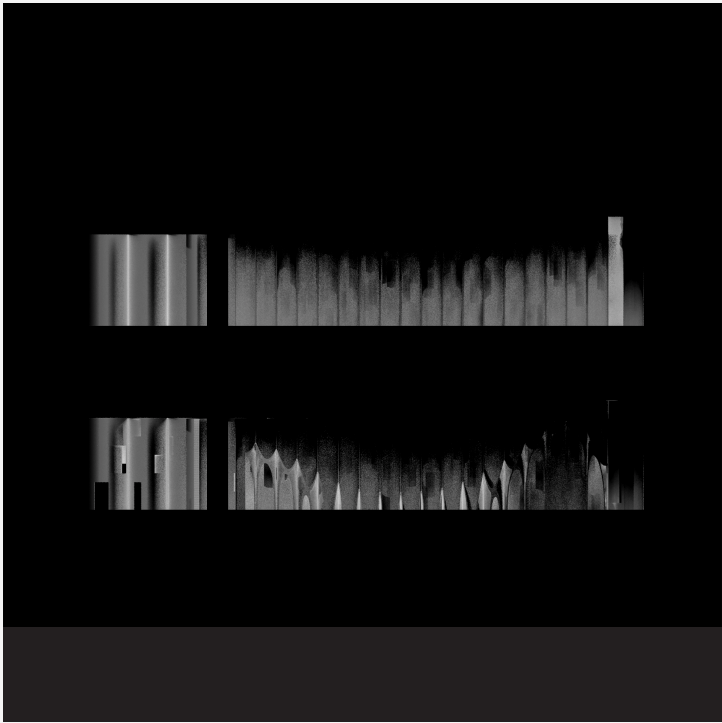
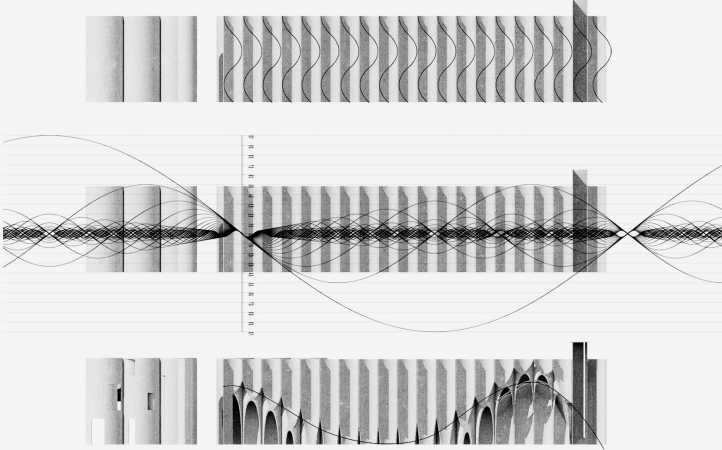


MAIN FUNCTIONAL ZONES

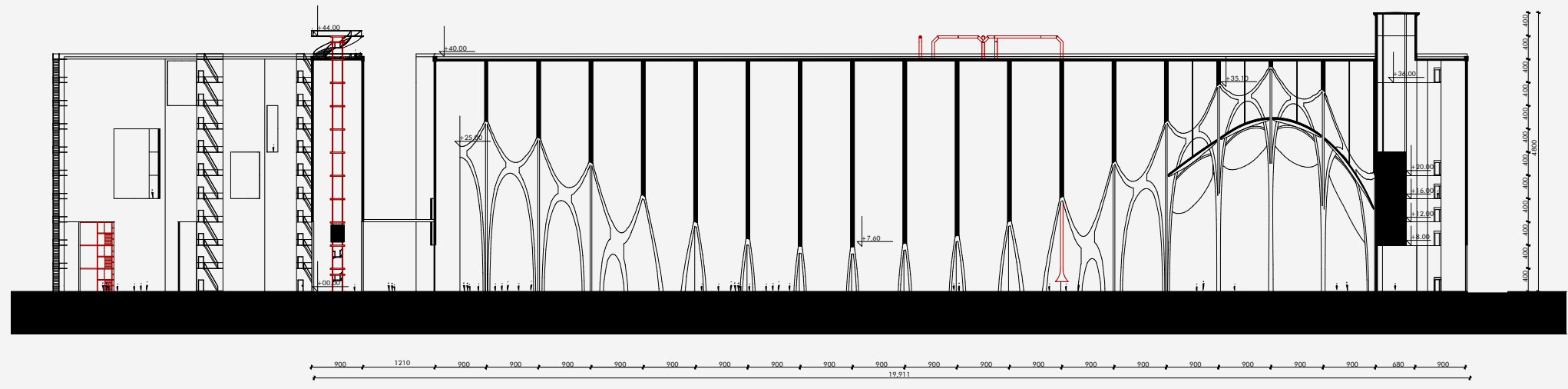
**6 Batteries**  
Serving as Studio apartments, recording studios, ateliers, archive, administration and in lower floors restaurant and kitchen. Greatest challenge represents introduction of sufficient light, music-box mechanism serves as inspirational source. Internal steel structure supports elevators staircases and modular units of various functions.

**Sound Chambers**  
The outside form of silo remains intact. They are manifestation of visual aspects of sound.(Cymatics) Cymatics: [Typically the surface of a plate, diaphragm or membrane is vibrated, and regions of maximum and minimum displacement are made visible in a thin coating of particles, paste or liquid. Different patterns emerge in the excitatory medium depending on the geometry of the plate and the driving frequency.]  
First Chamber is filled with sand that is on the lower part of cylinder followed with topographical path. This installation is focusing on touch.  
Second Chamber is filled with water that is placed in upper part of silo,sound vibration creates different patterns, which are also reflected as light on walls of silo.  
Third Chamber sound is transmitted trough Rubens tube.  
The tube is sealed on both ends, but one end is a (Propane-resistant) rubber membrane that allows sound to pass through. A speaker, trumpet, loud sibling, or any other noise source is placed on this membrane end.  
The different amount of gas flow in different areas results in different flame heights, and if amplitude is high enough a defined sound wave emerges from the flames.  
Forth Chamber is a sound catcher with tubes going in different directions catching the sound of water, forest, people in the street of just silo. Other chambers are left for utilities, temporary exhibitions, experimentation and sound library.

**Wave**  
Light transmission and sound are one of the most interesting and unique experiences Sonoduc can offer. The shadows that are dancing on curved concrete walls and slowly dissolving until they reach ground. Intensity of sound is so loud at this point that it resembles echo of empty caves. Experiencing sound in a range of scenarios and metamorphoses is a main generative idea beyond this project.  
Putting the sound trough silo, like trough any other tube, sound wave forms a repetitive amplitude. It crates echo and it weakens in repetition. The idea is to reshape part of the space so the sound wave would be transmitted across the building horizontally in order to get acoustics trough entire object.  
Following the sound and controlling spread, the inner core of building was reshaped in unexpected way. It appeared in different forms and scales, dragging the light to follow the curve of the wave. Sound distribution and behavior was a driving force lending the interior its unique form.







#### EXPERIENCING SONODUC

Scenography of sound and light, entering via tall red door visitors are introduced through light-filled entrance hall. From here visitor proceeds through spaces imbued with variety of sounds. Physical Materiality of former storage is replaced with elusive sounds that give place unmistakable identity



