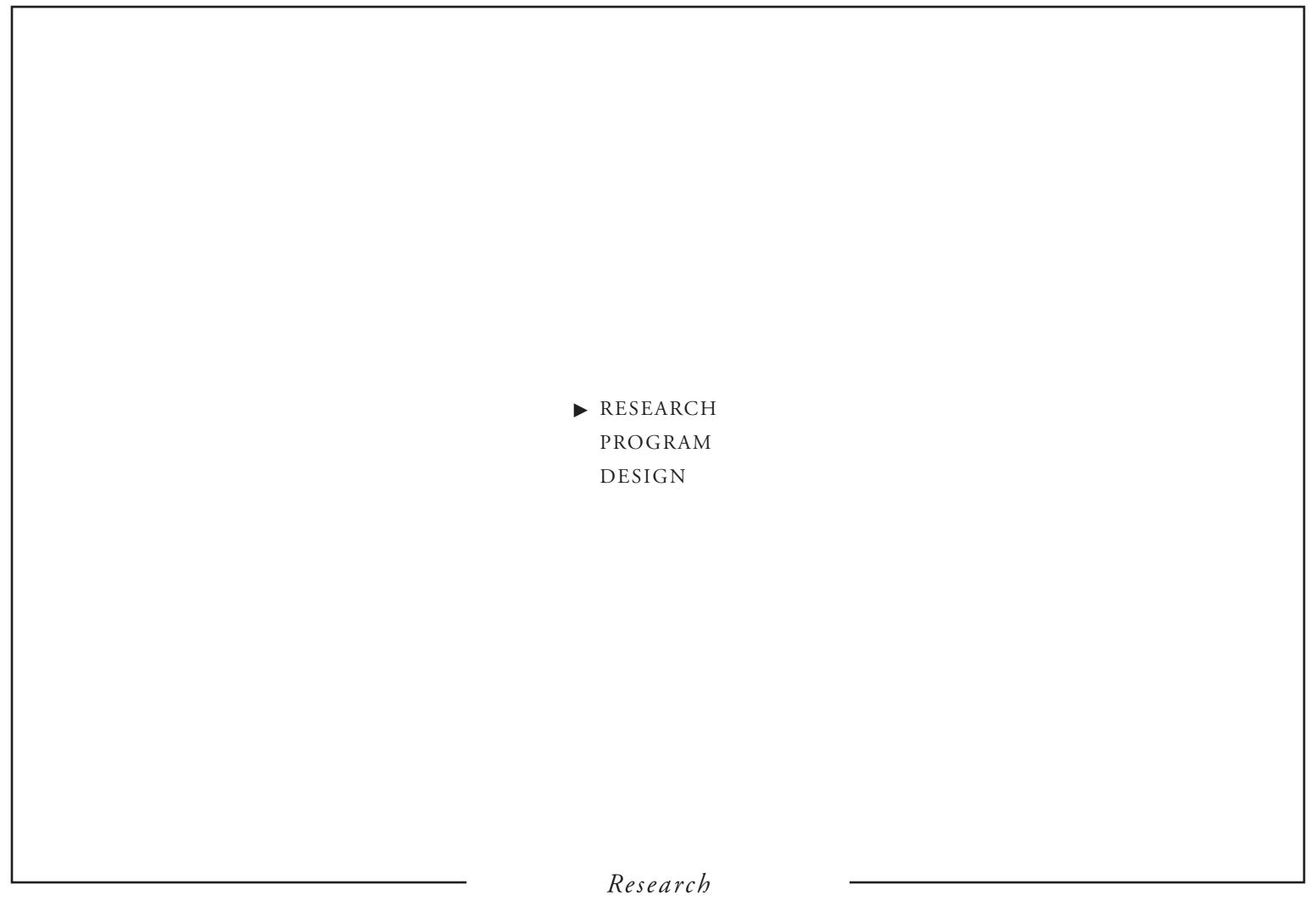
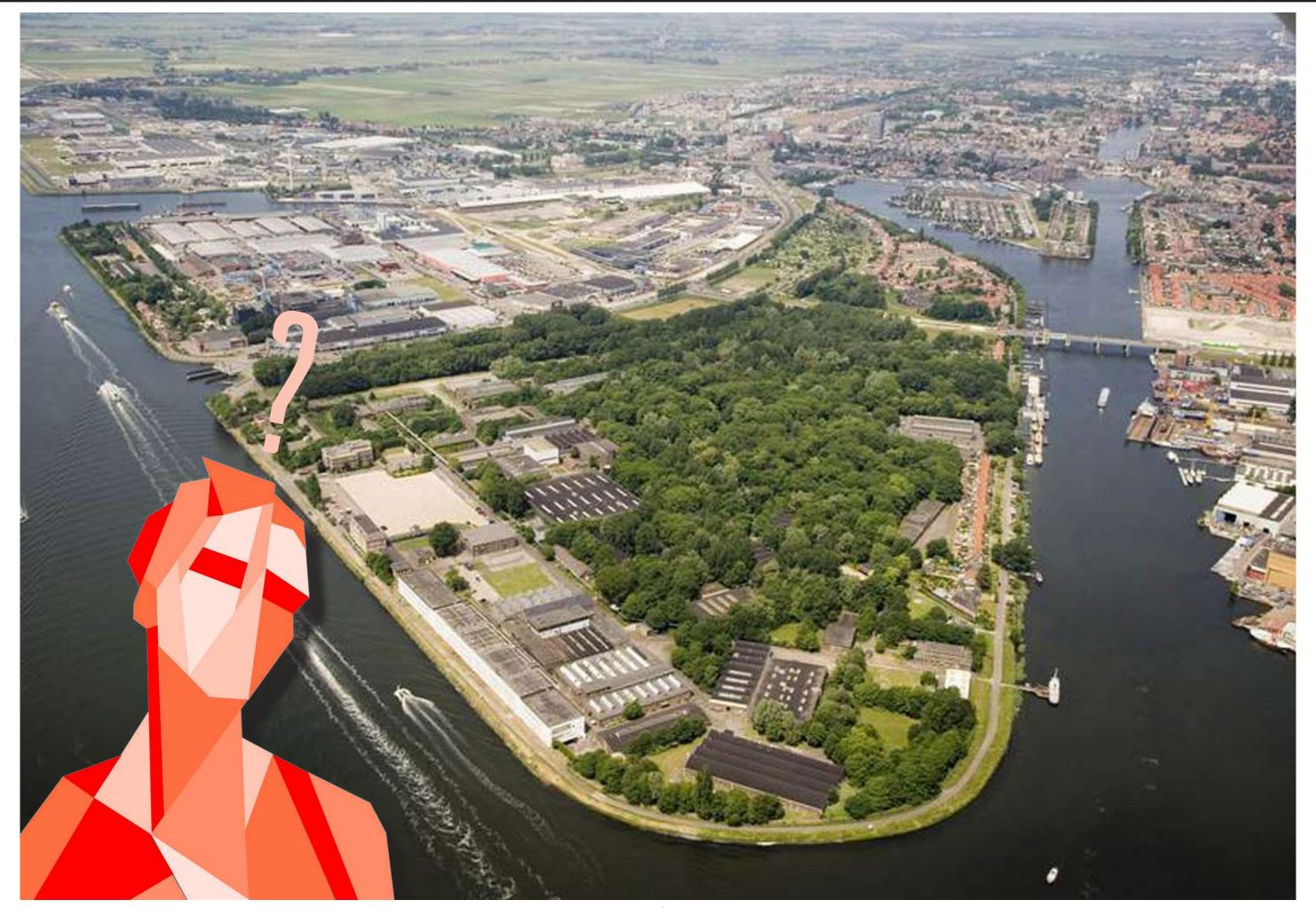




Content



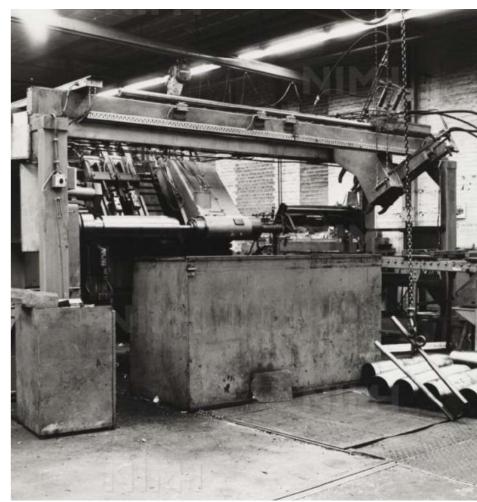


Hembrug?







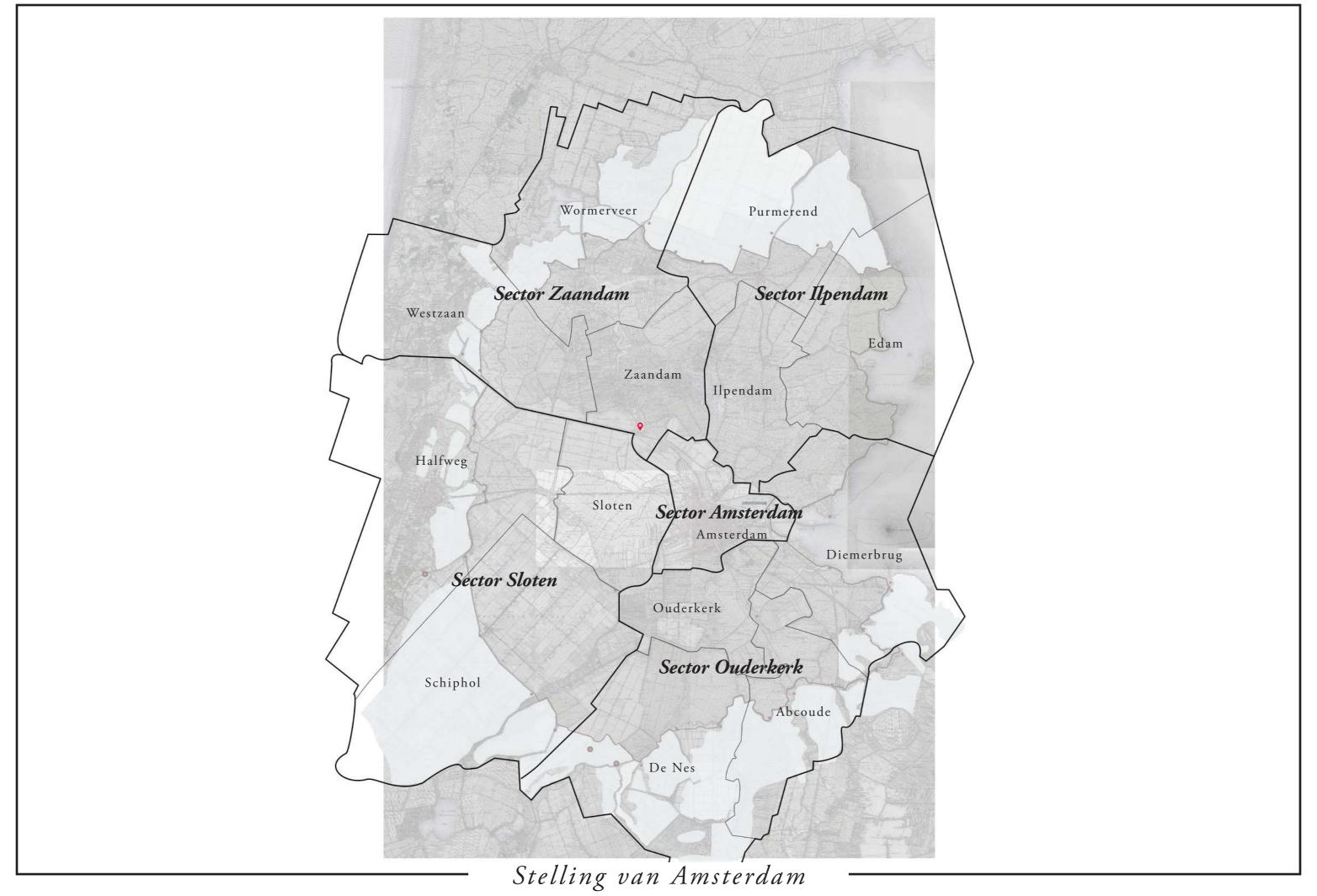


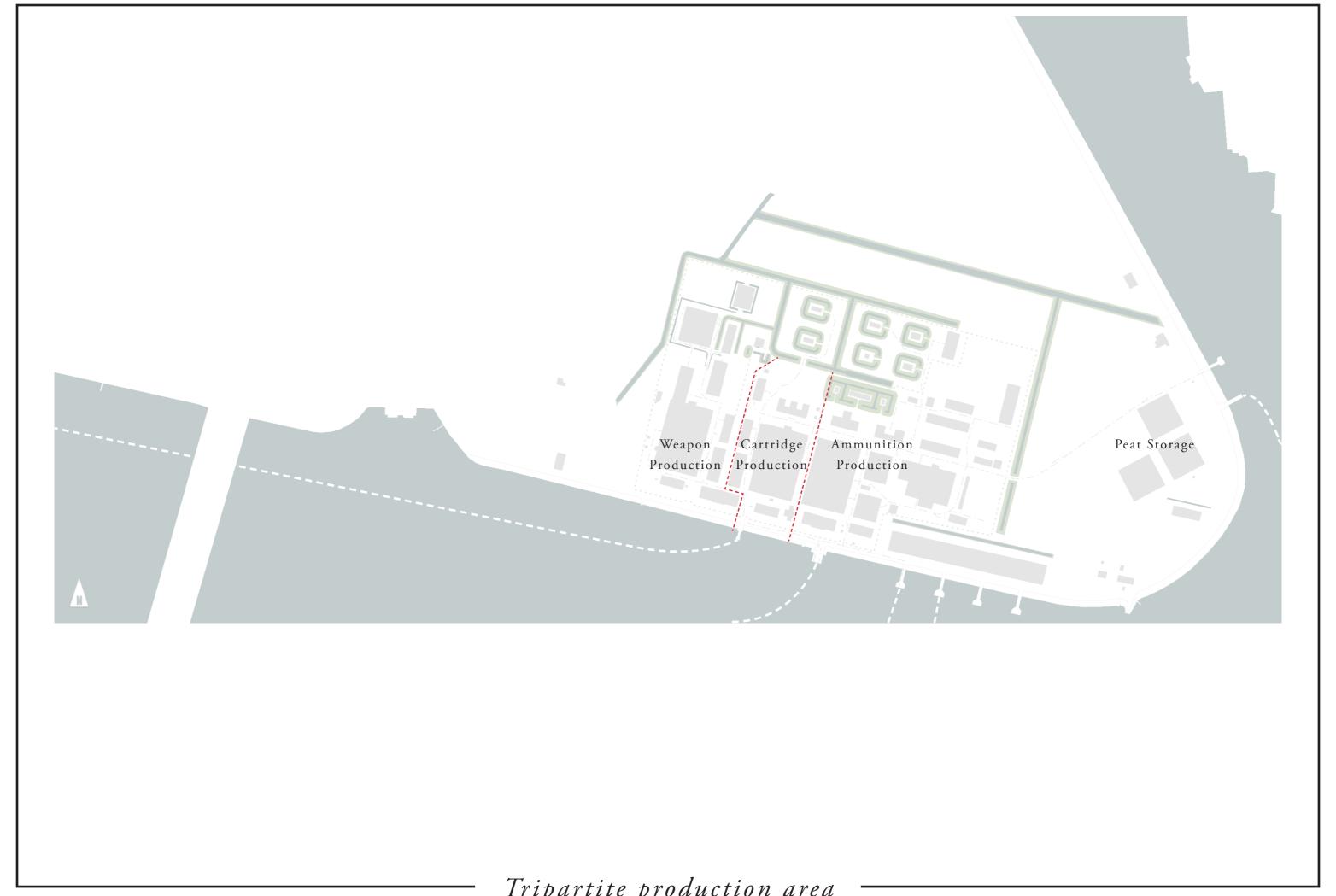






New weapons, new bullets!



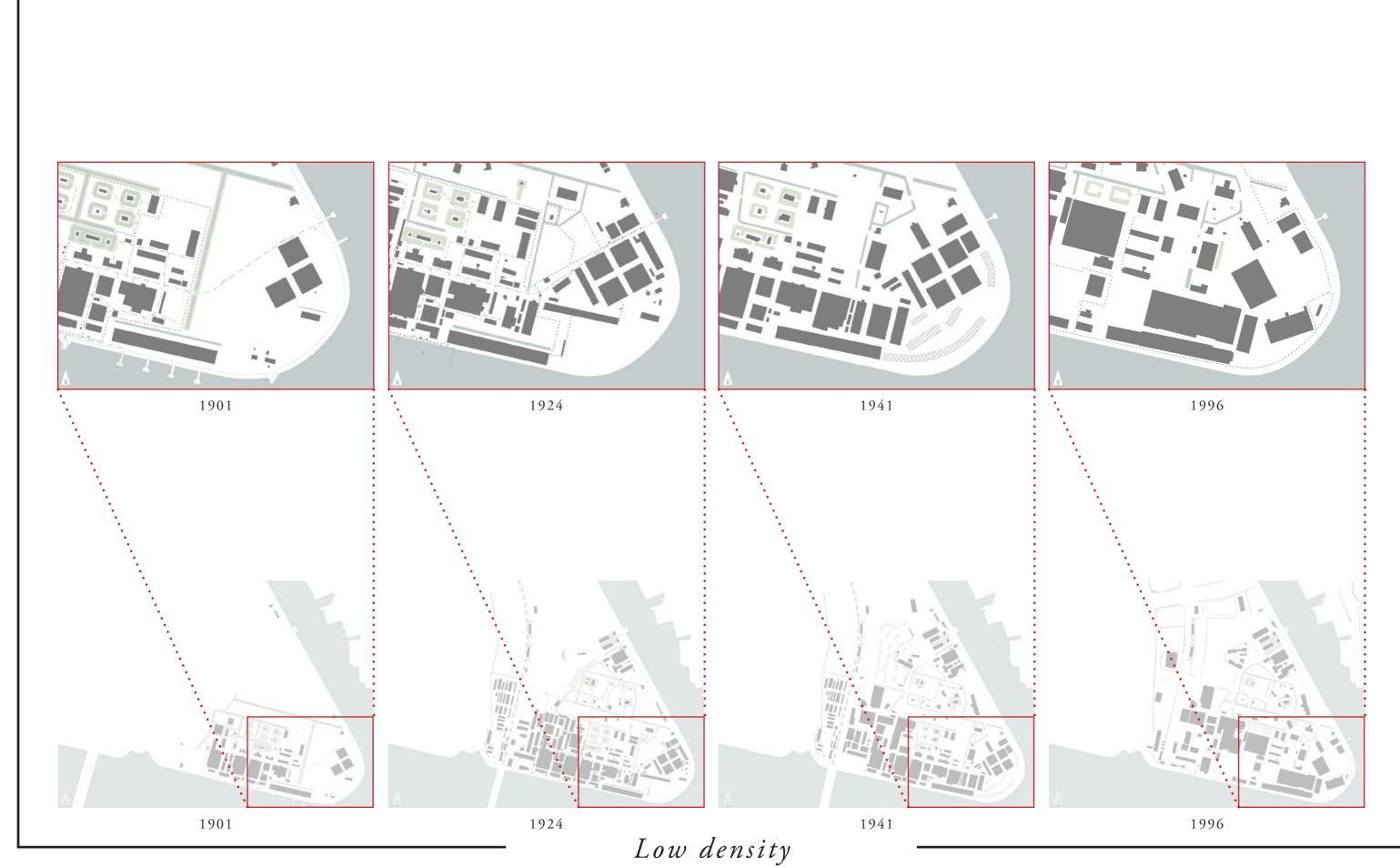


Tripartite production area





The Head of the Cape



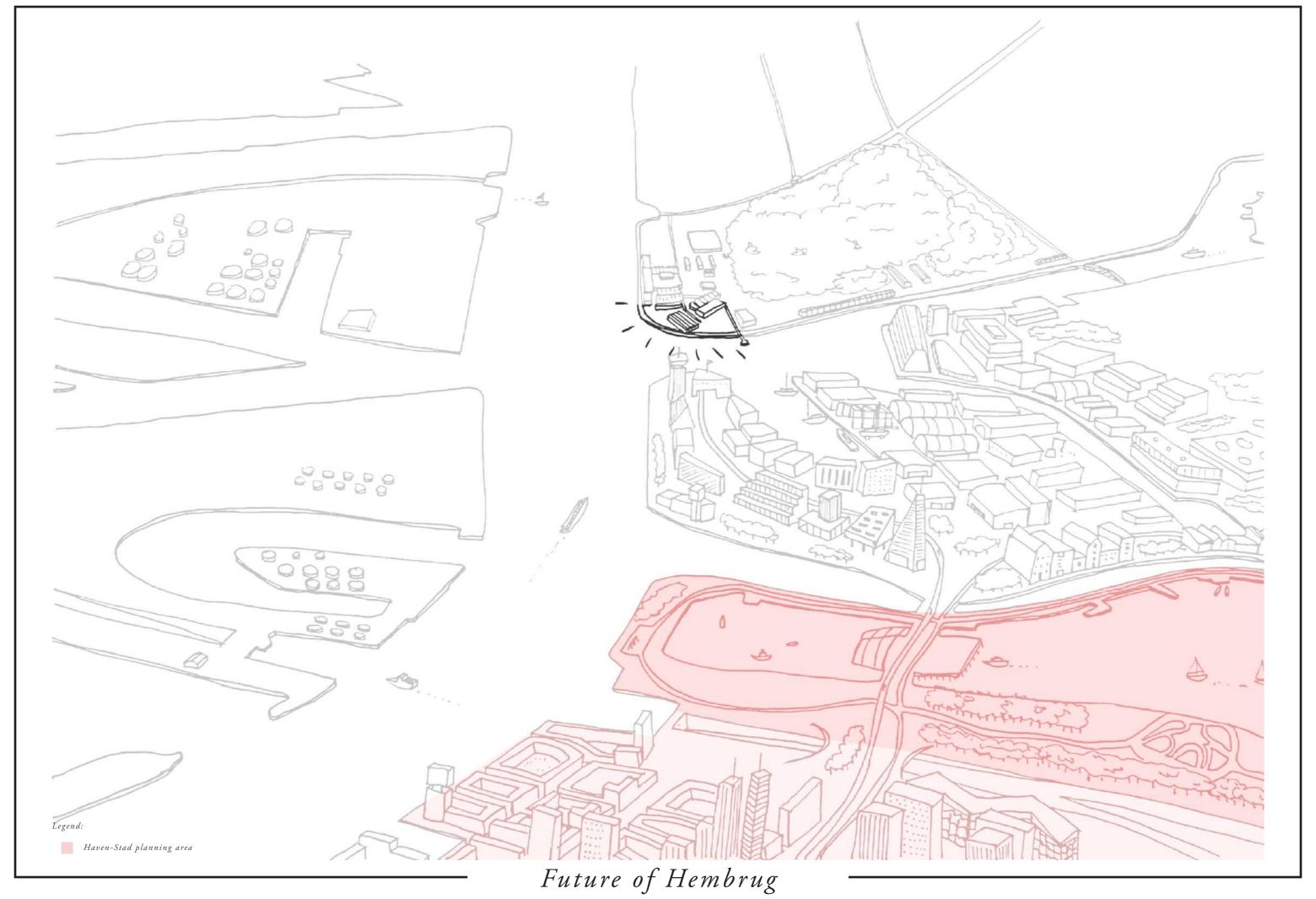


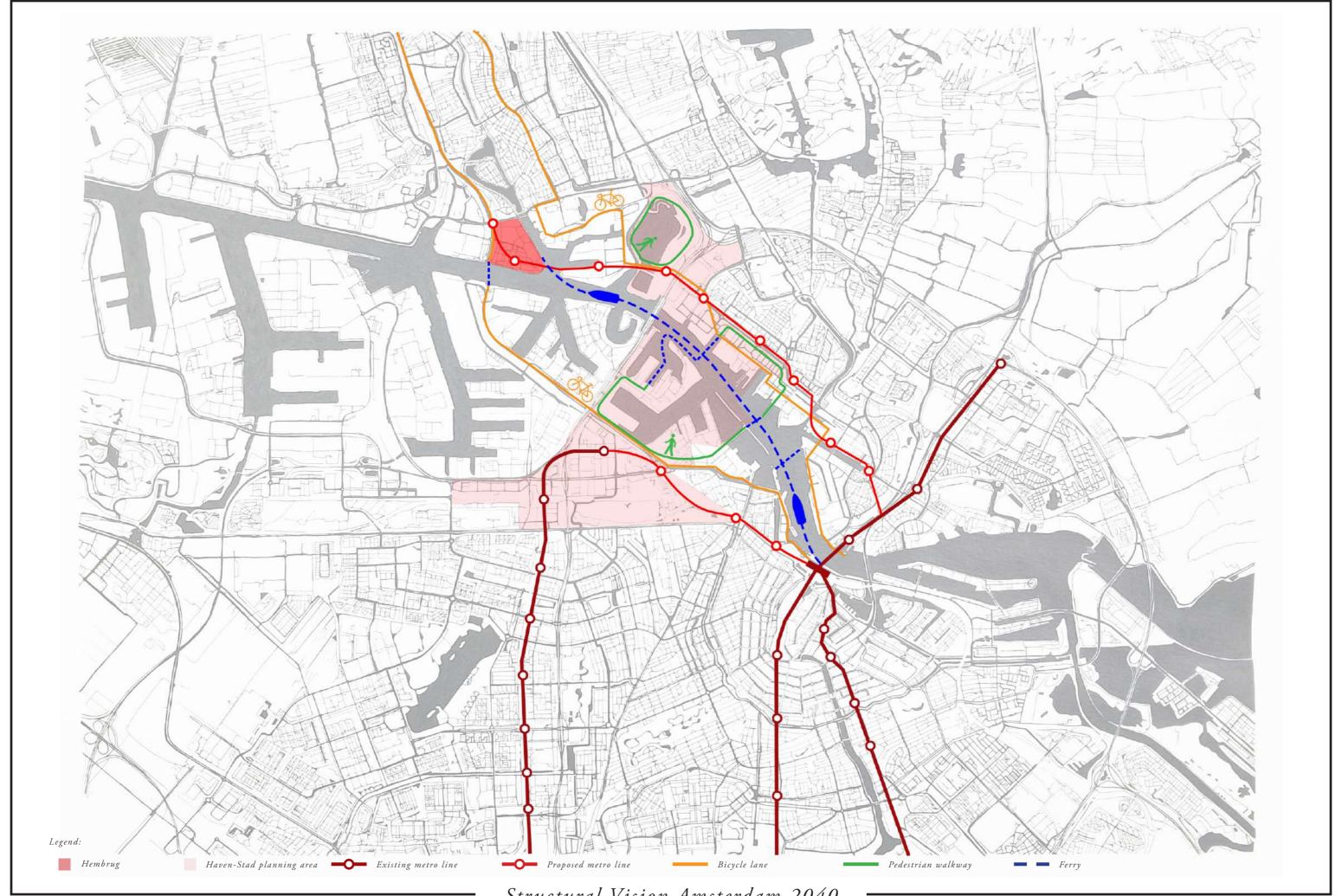




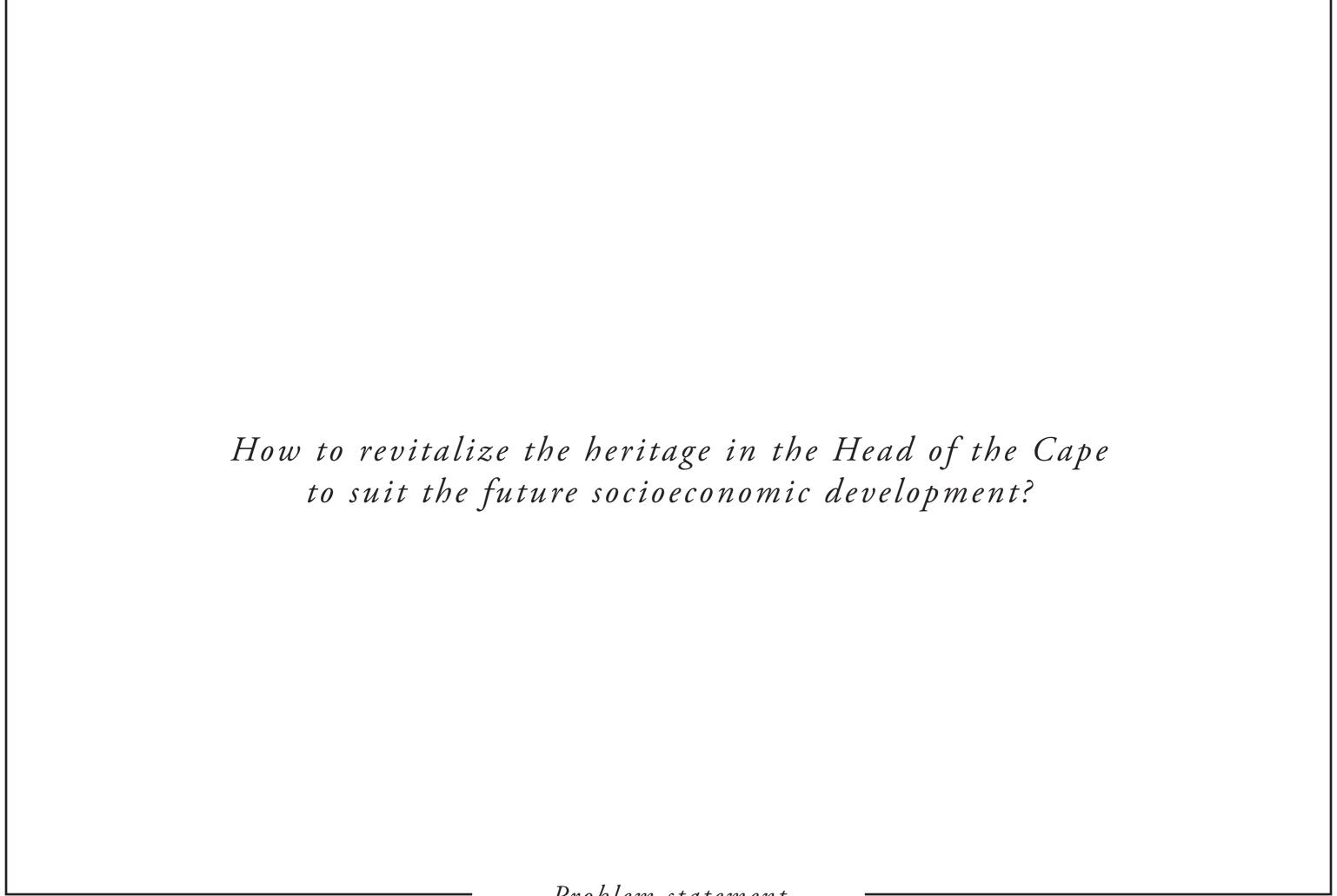


Existing buildings





Structural Vision Amsterdam 2040



why?

How to revitalize the heritage in the Head of the Cape to suit the future socioeconomic development?

"The built environment is like a nearly full water basin, it is important for us to look at the existing stock."

-Wessel de Jonge, 2017

Sustainability
Up-cycle movement



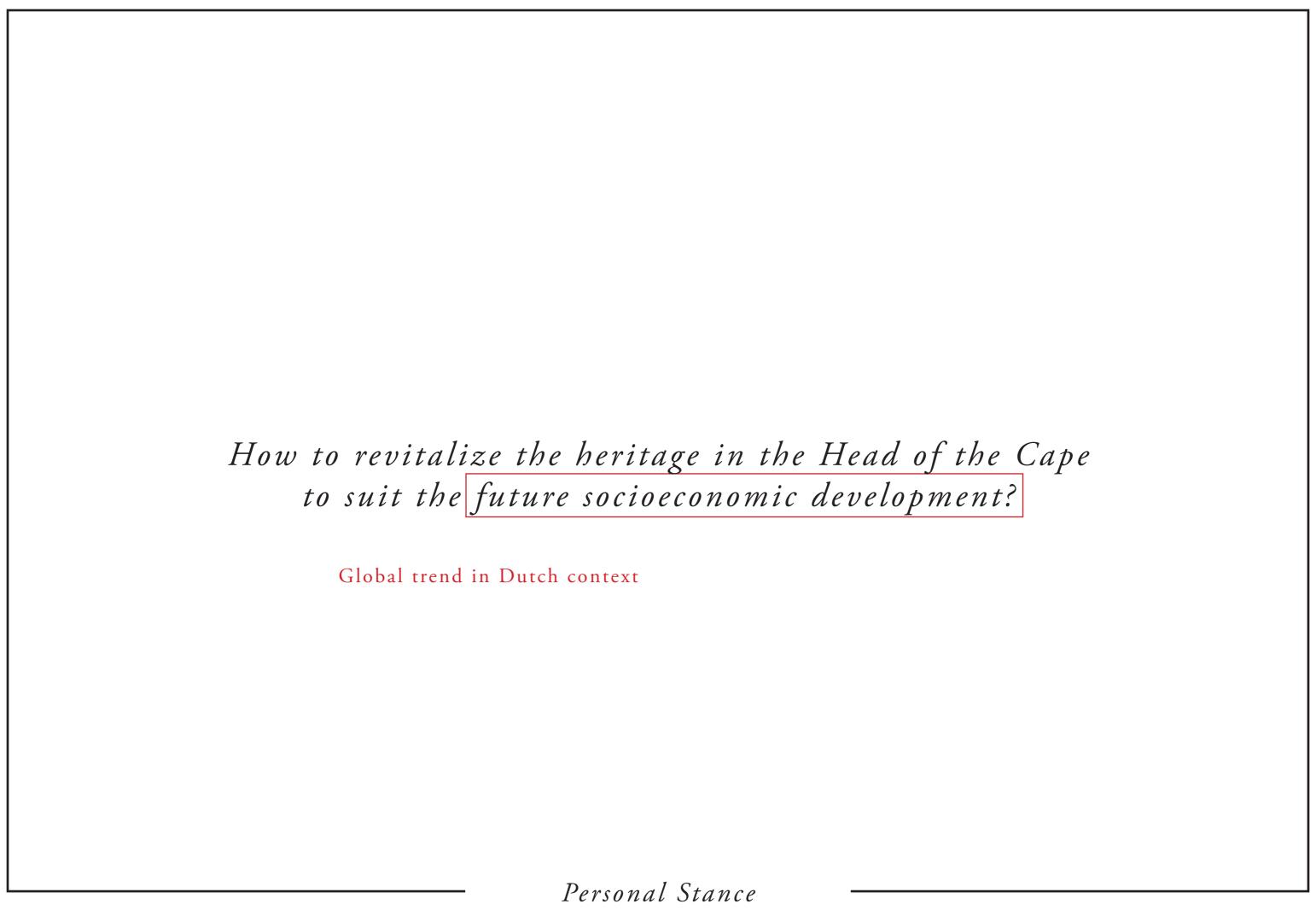
Role of heritage architect:

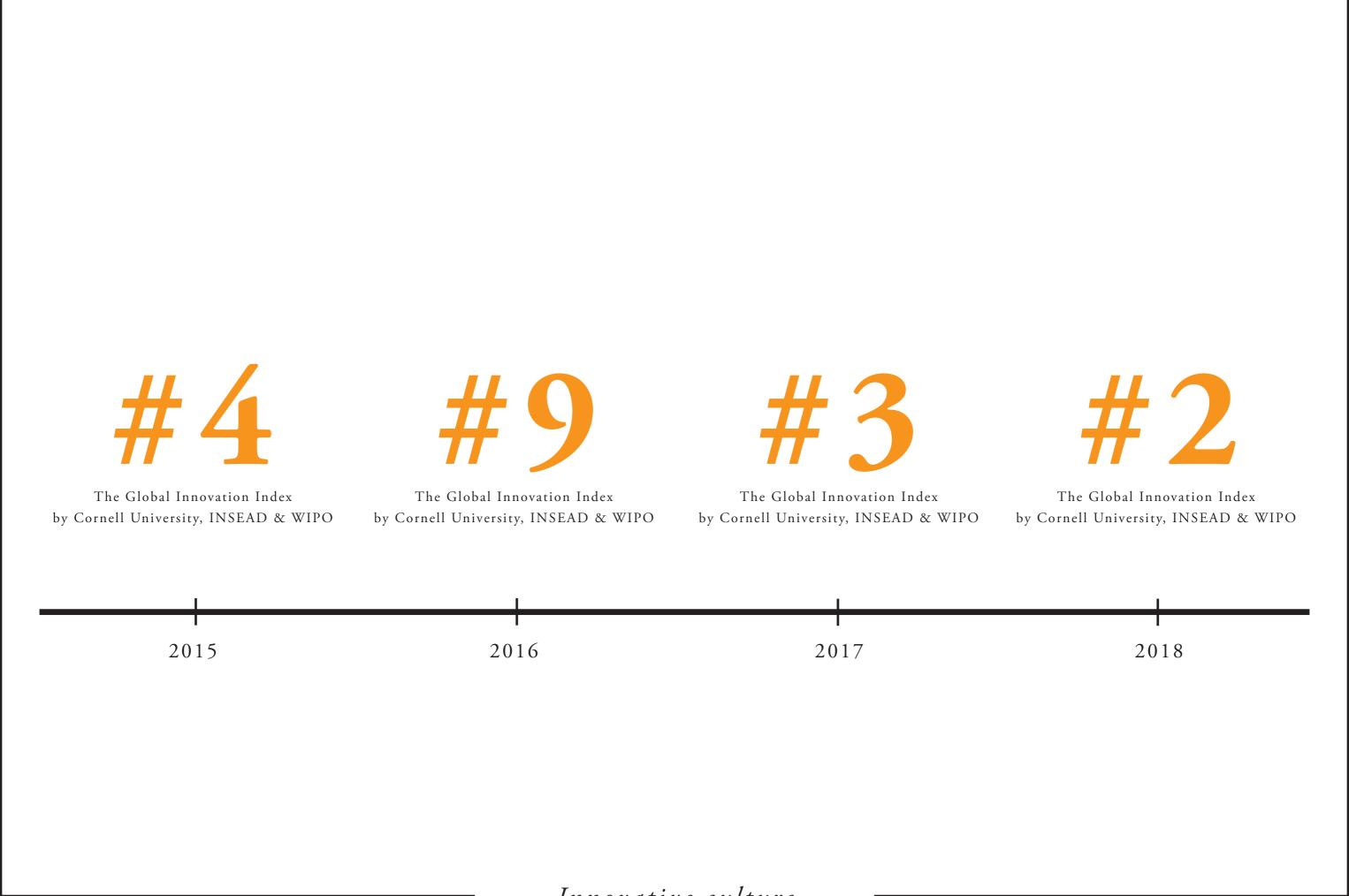
To realize the potential in forgotten and faded spaces

To give a second life

To preserve the cultural values

Personal ambition towards innovation and technology

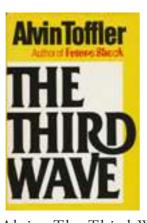




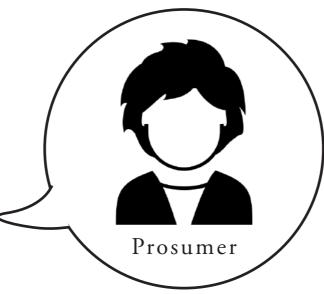




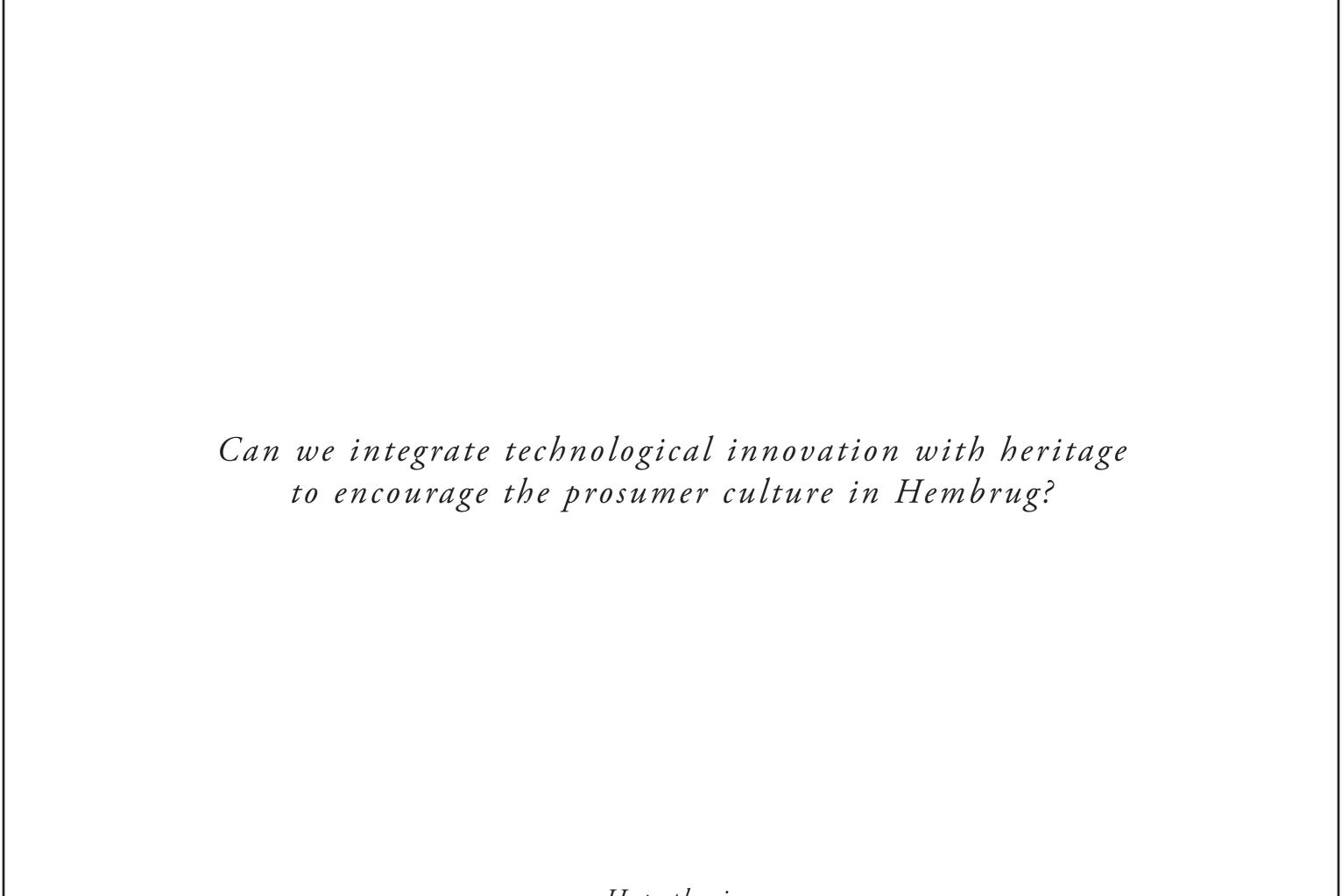
Cultural Product (e.g. Art, knowledge)



Toffler, Alvin. The Third Wave. New York: Bantam Books, 1980.



Prosumer

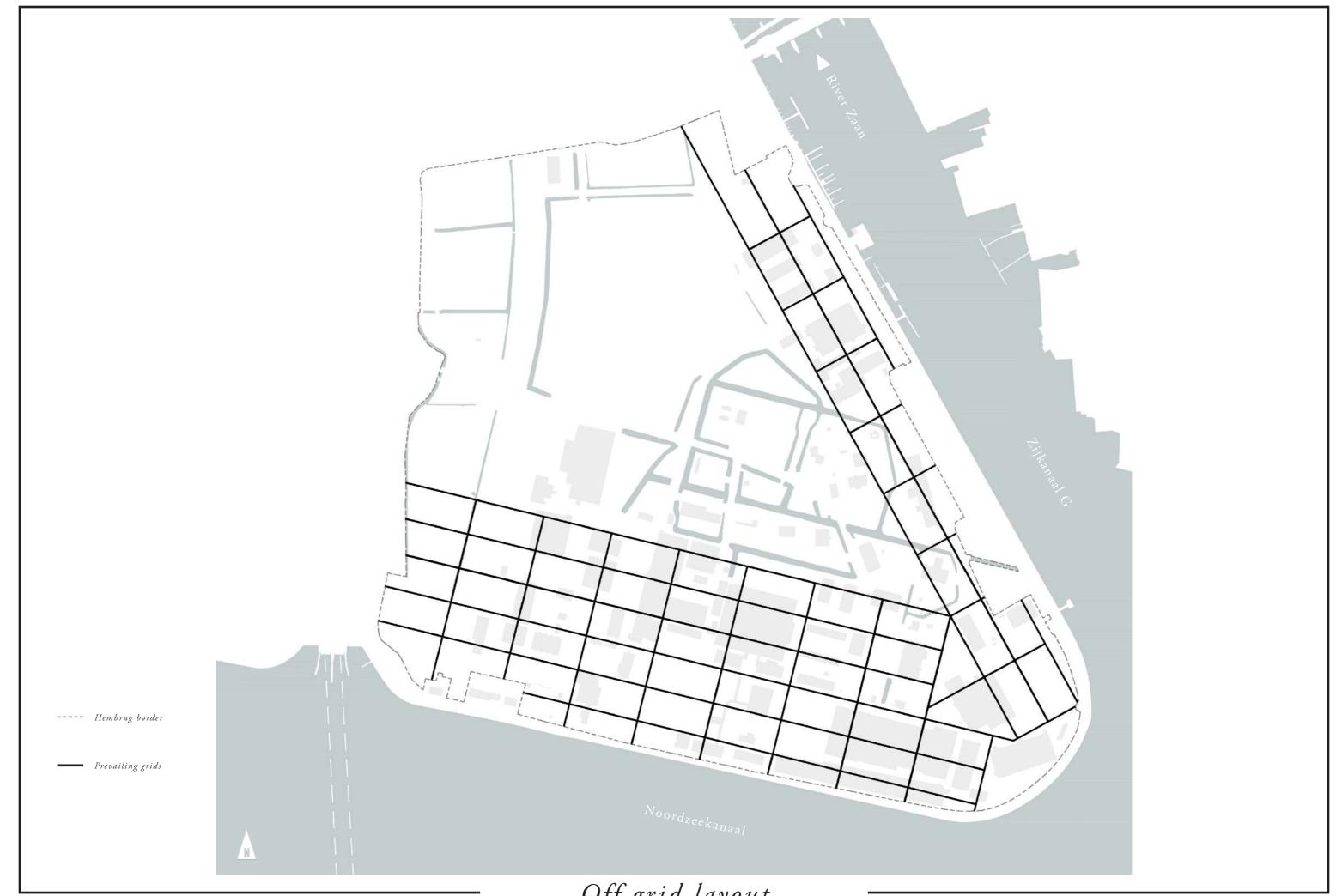


What is... What was... Production of Production of innovation and knowledge weapons and ammunition Ammunition Factory Innovation Factory

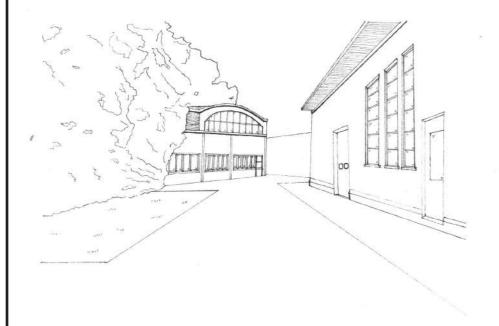
How to extract the character of the Cape to inform the design of a cultural venue which cultivates innovation?

Character noun [C or U]

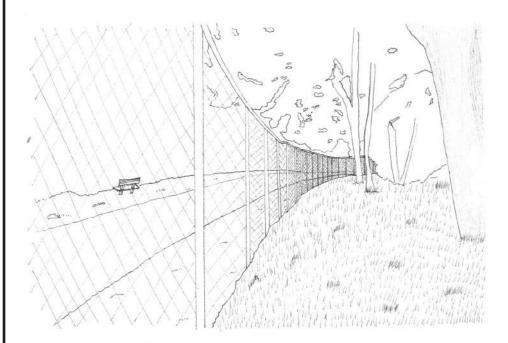
- 1. The particular combination of qualities in a person or place that makes them different from others
- 2. Qualities that are interesting and unusual



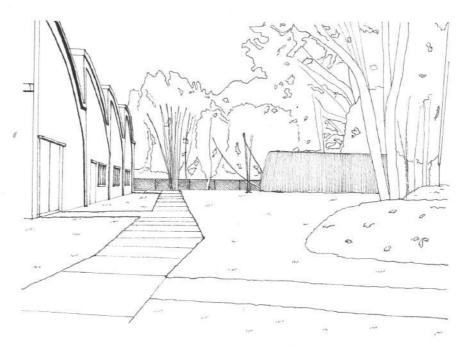
Off grid layout



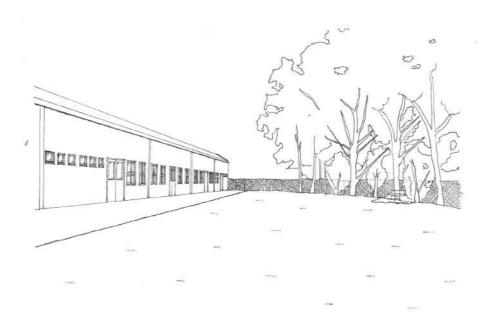
Hm...Where is this road leading to?



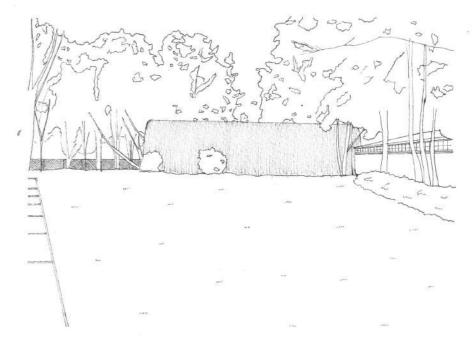
Too bad that the promenade is separated from the lawn by this fence...



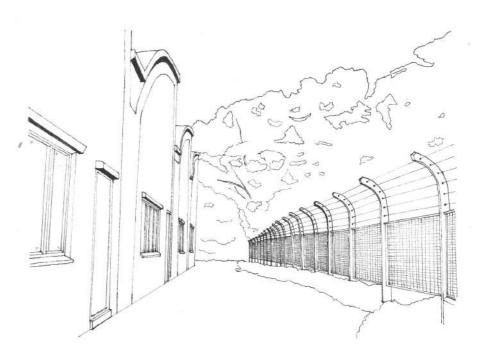
Oh! I can see the Noordzeekanaal from here!



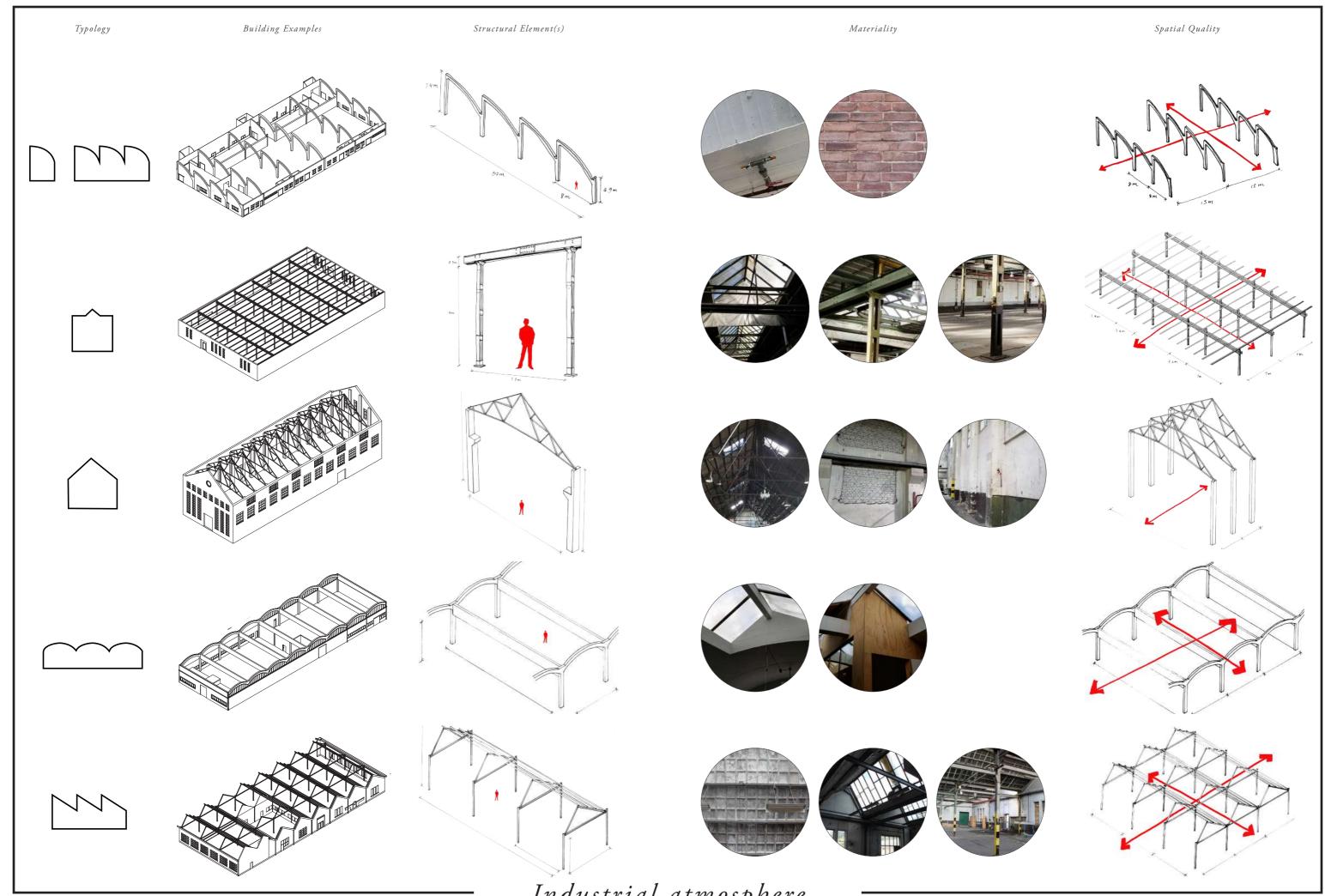
It seems that the lawn ends at the other side of the factory building.



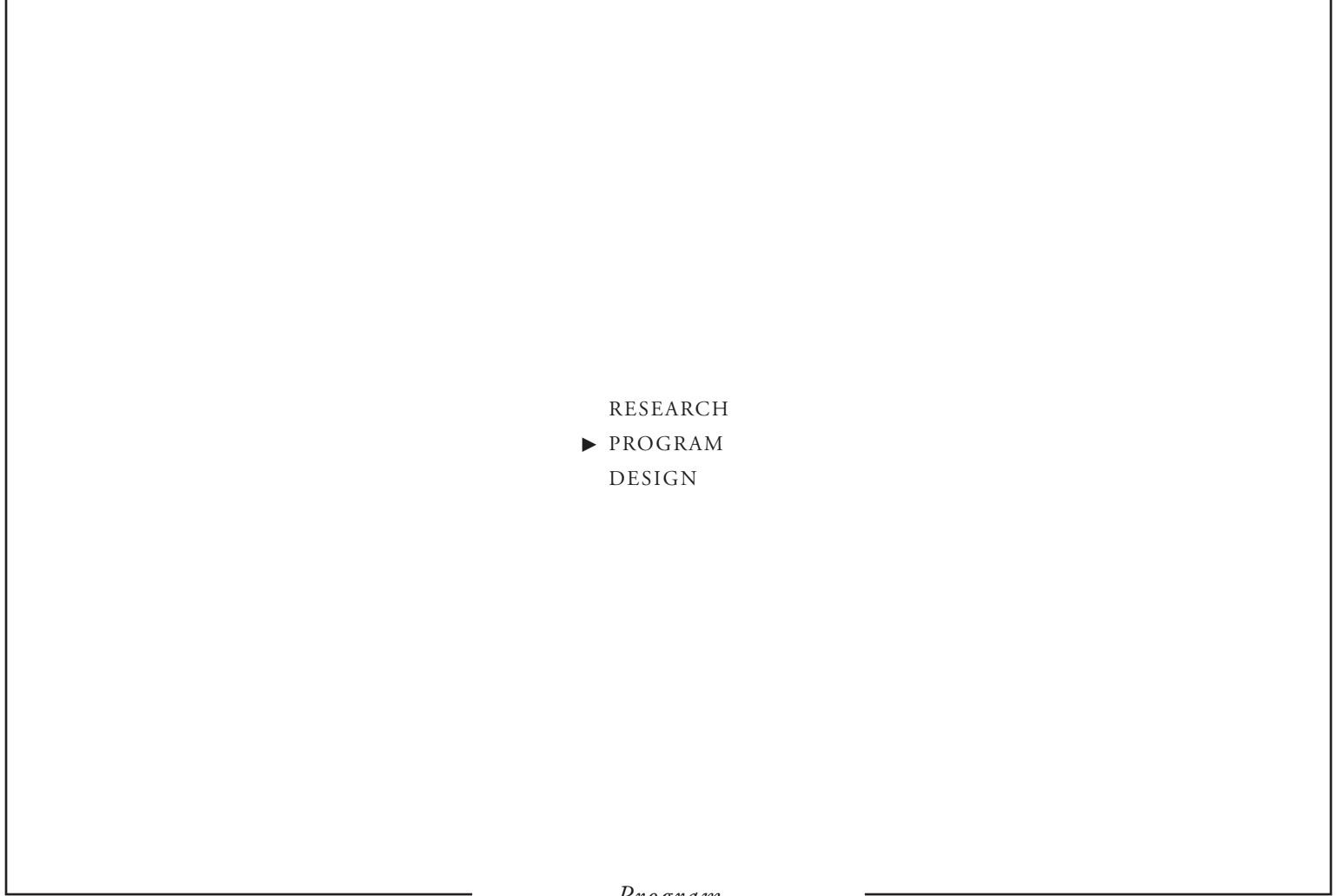
This green patch of grass is formed by two buildings.



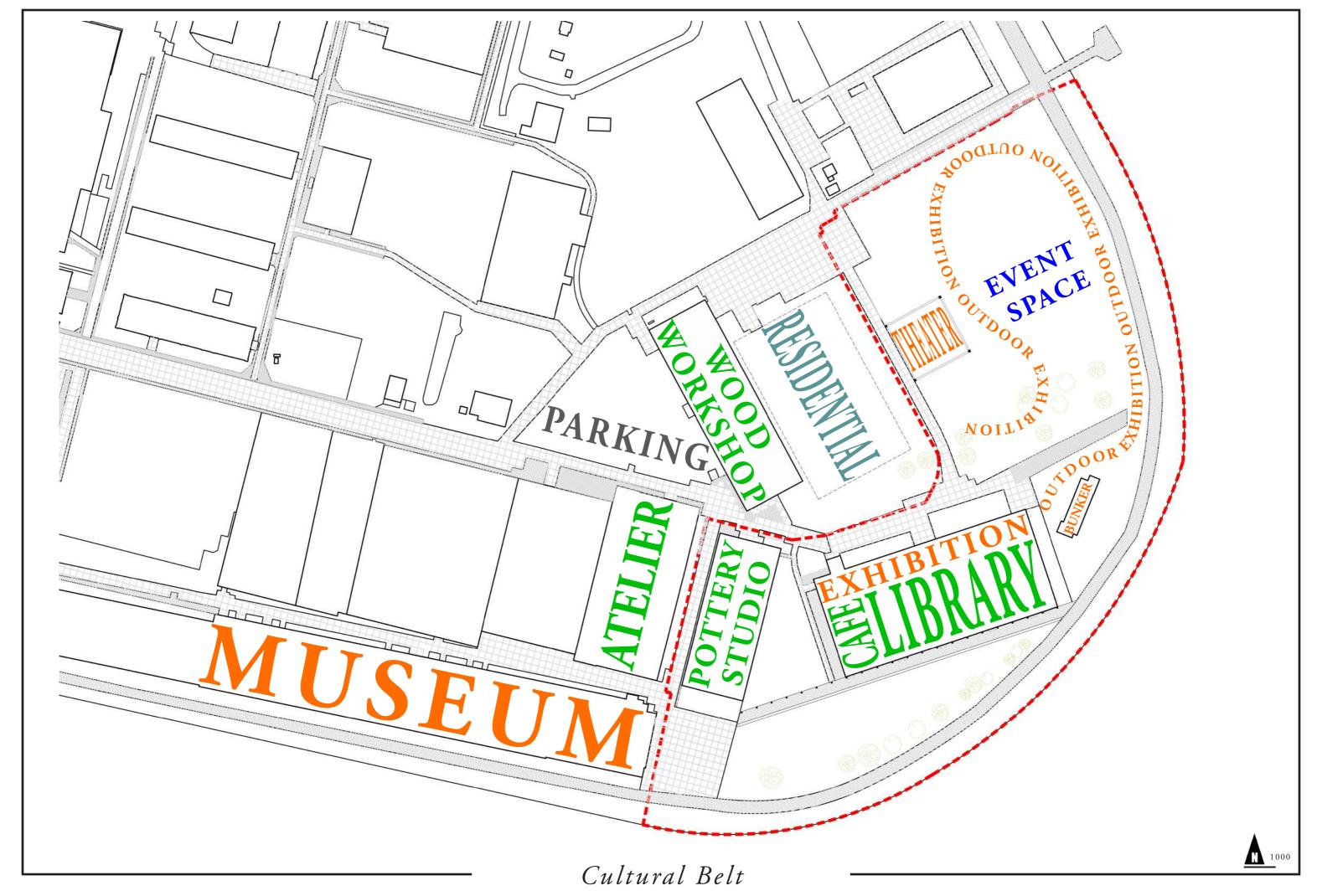
Oh, there is an alley at this end of the factory building. Look at these super old fence...



Industrial atmosphere

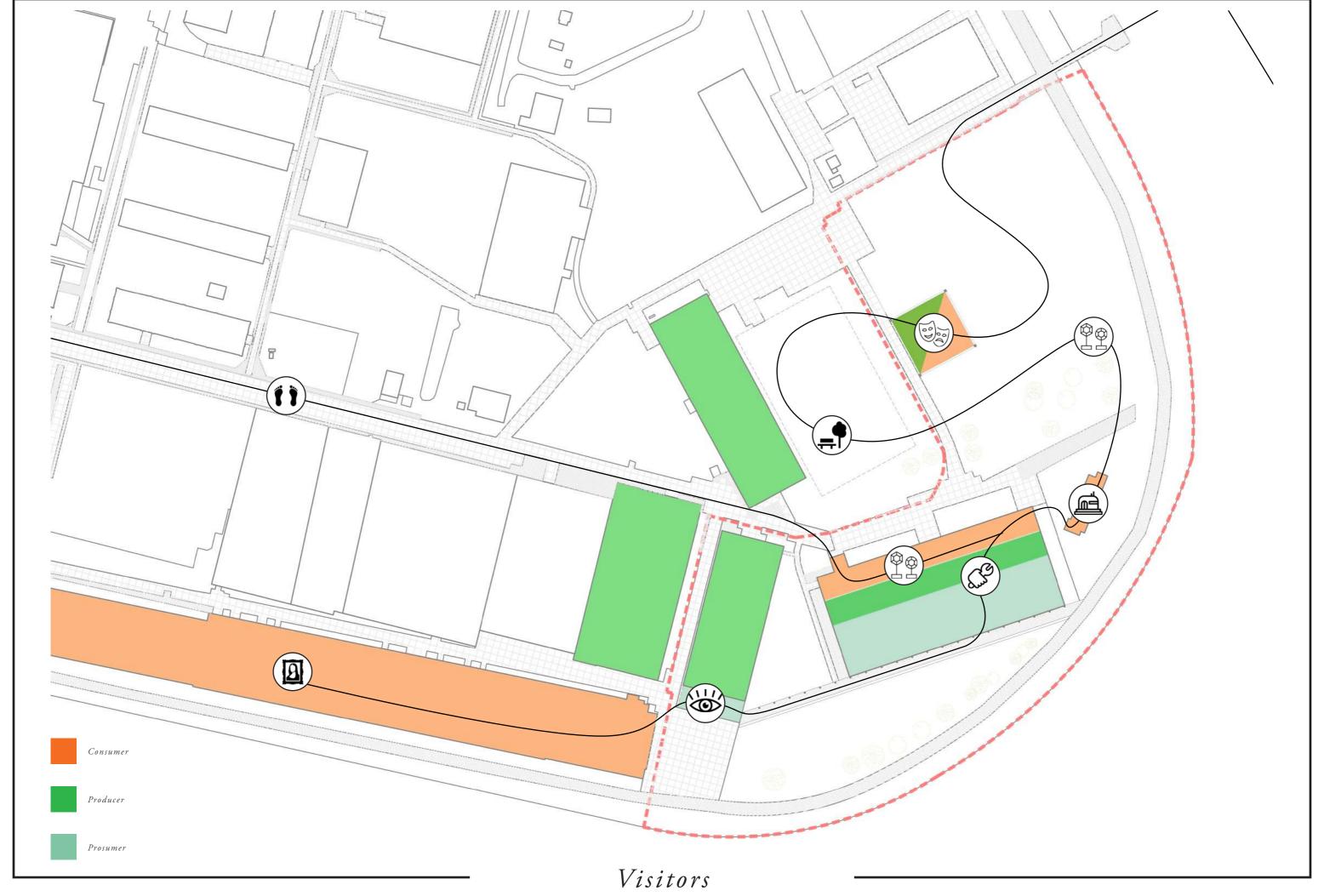








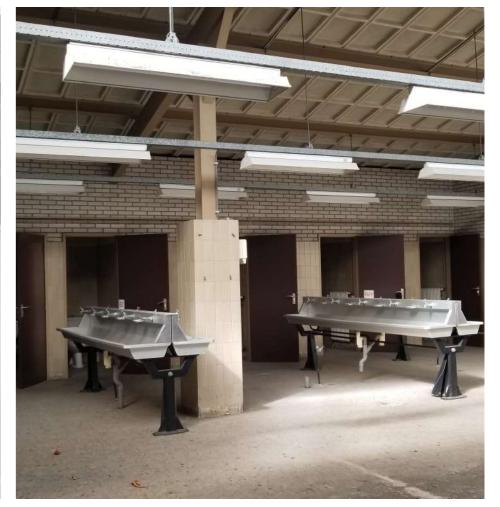




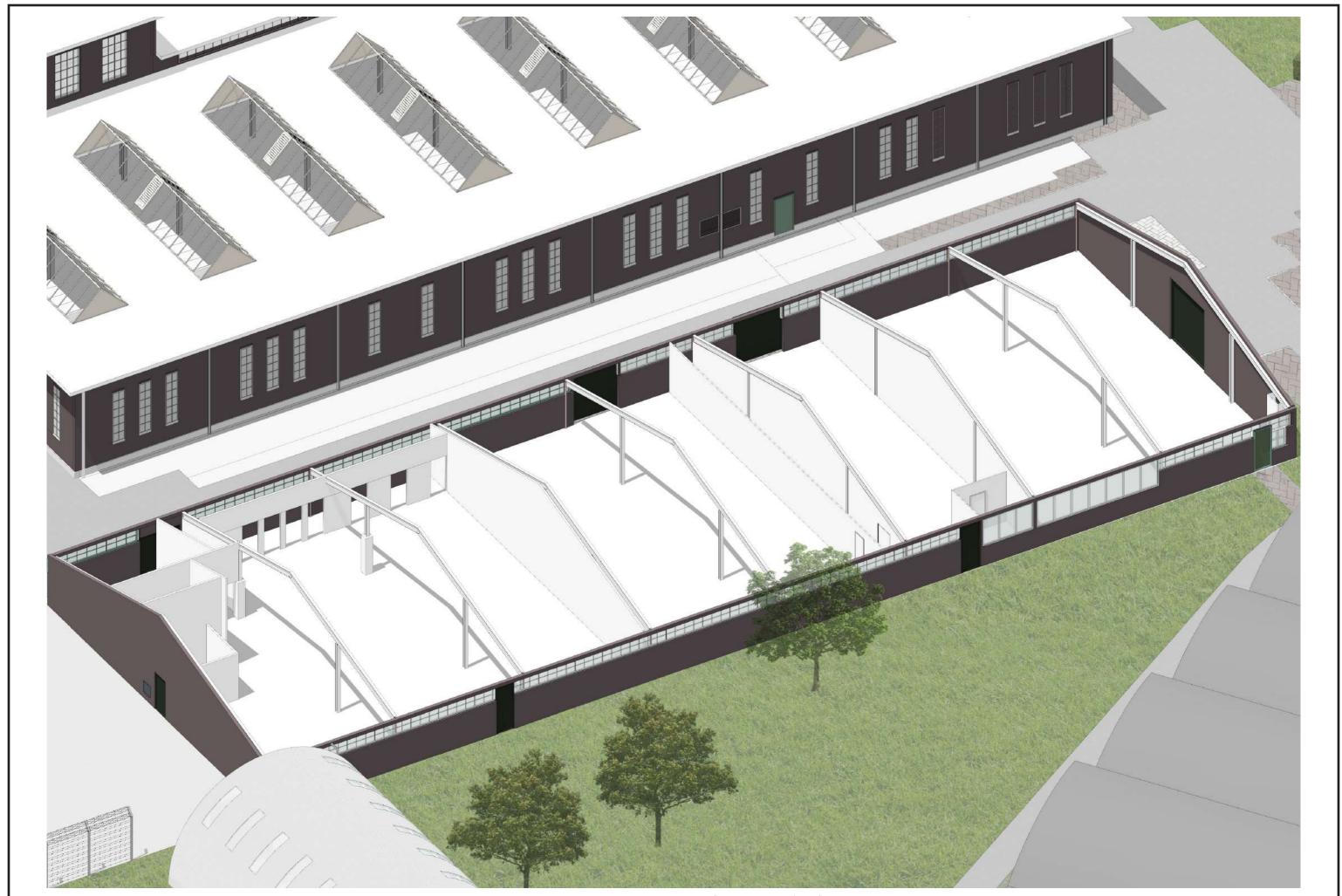




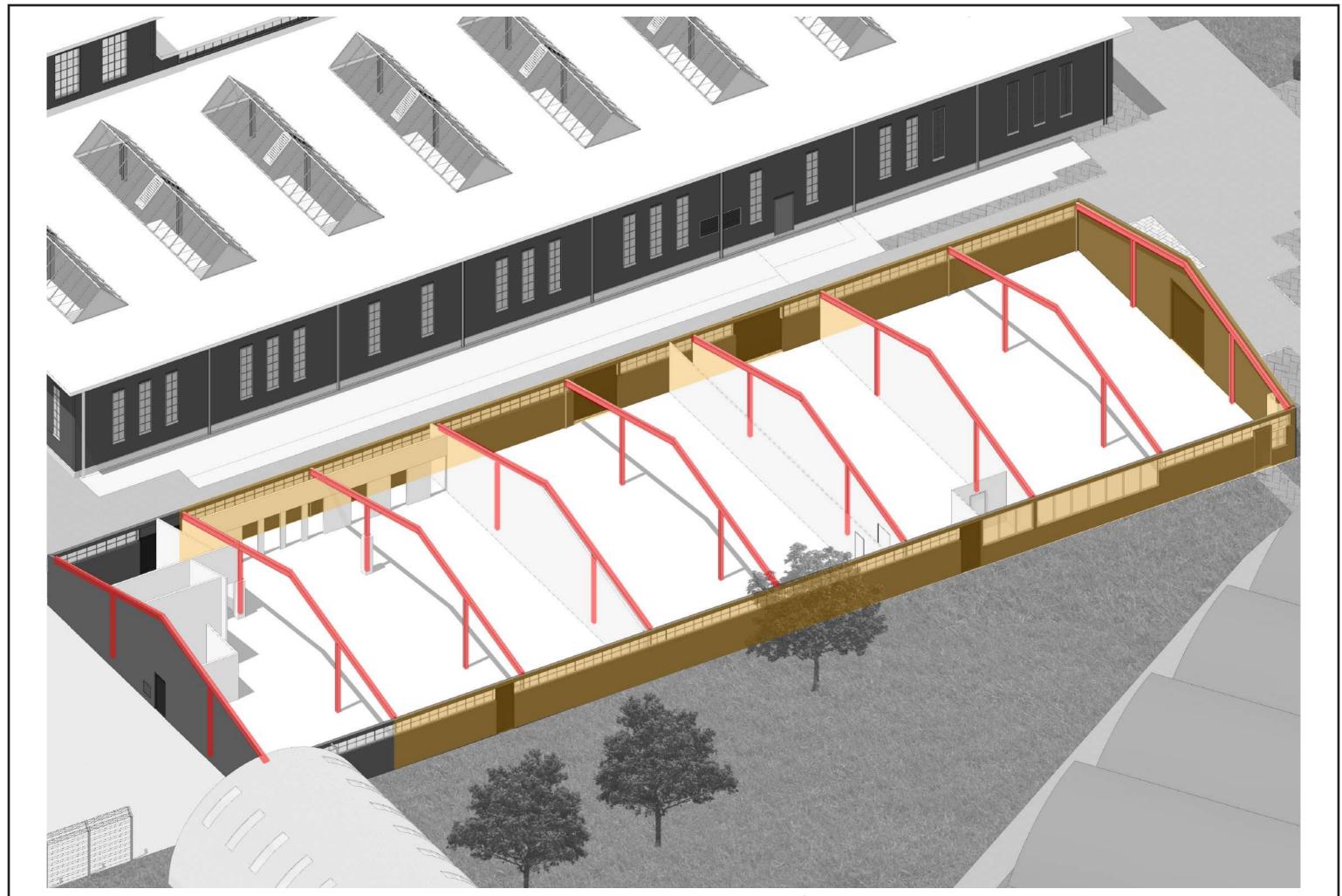




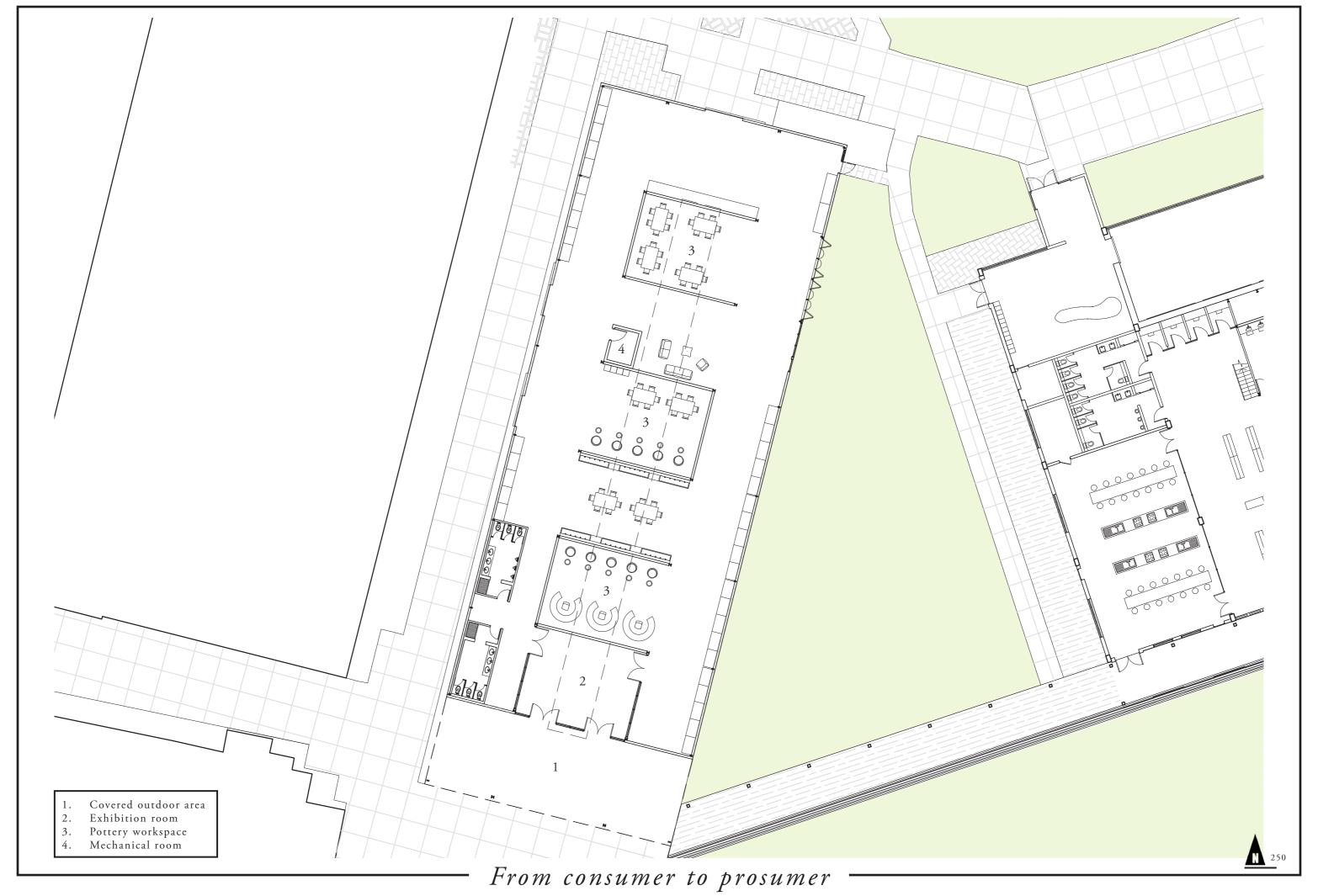
Existing projectile workshop -



Existing projectile workshop

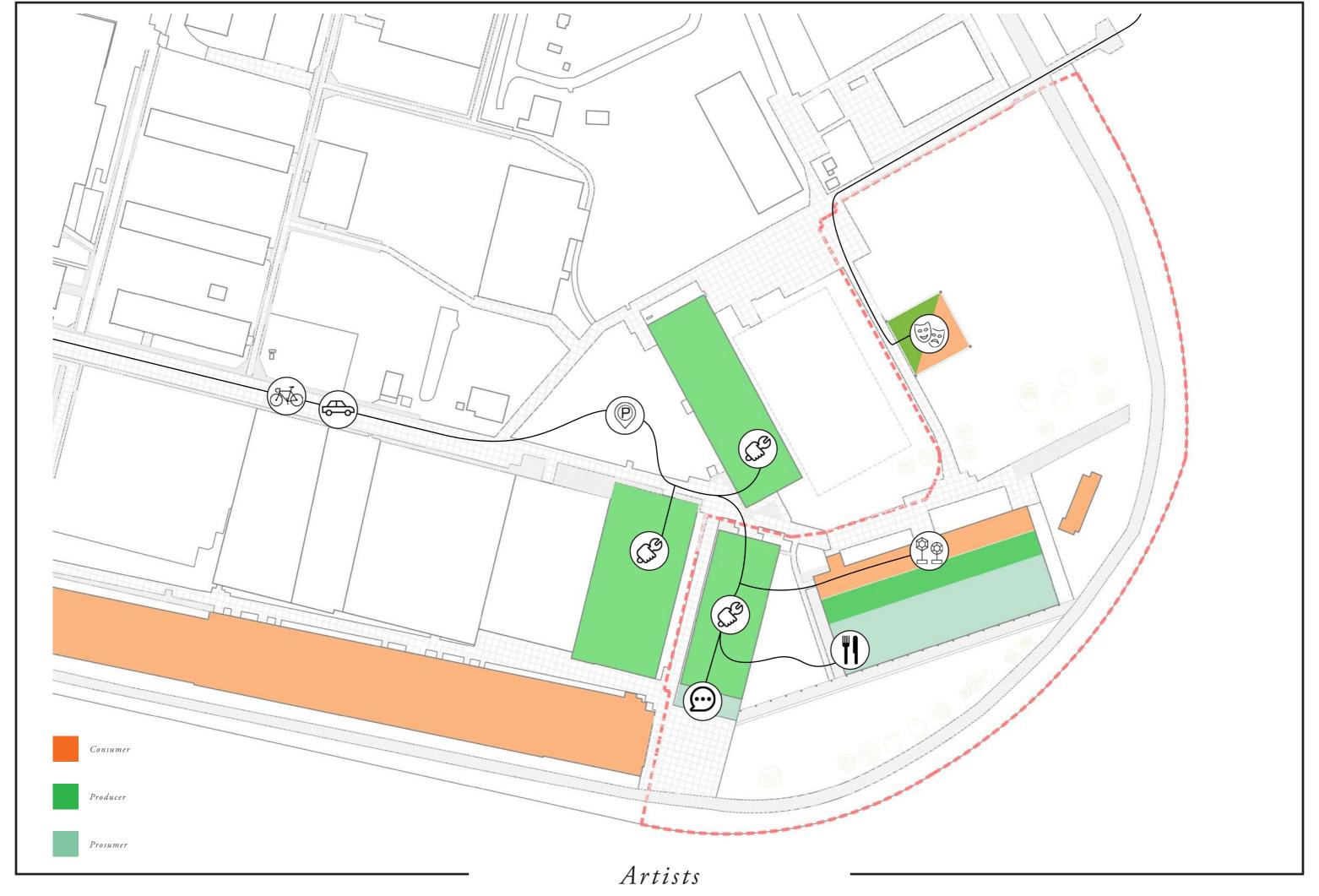


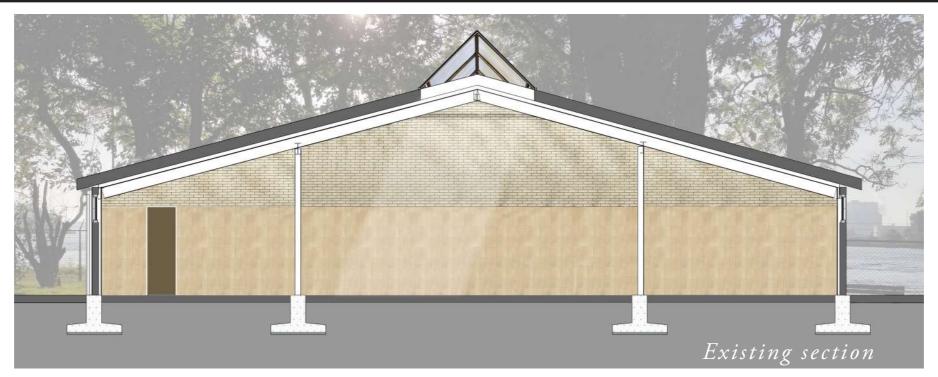
Intervention principle



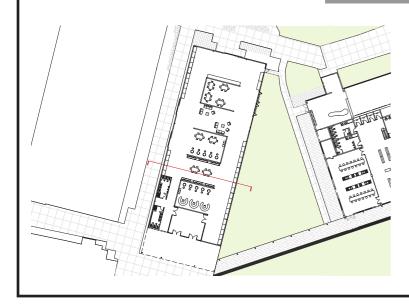


Contact with artists







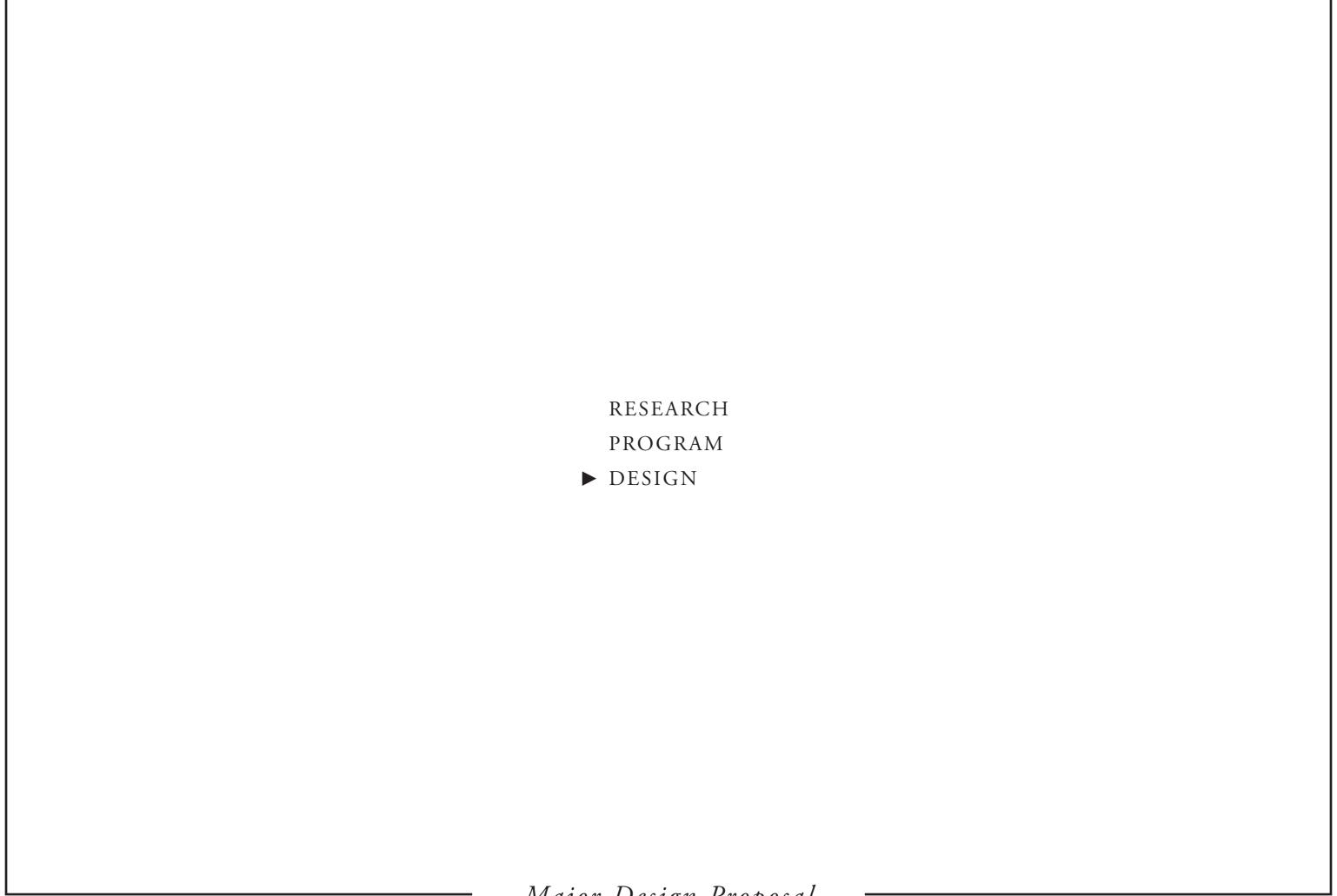




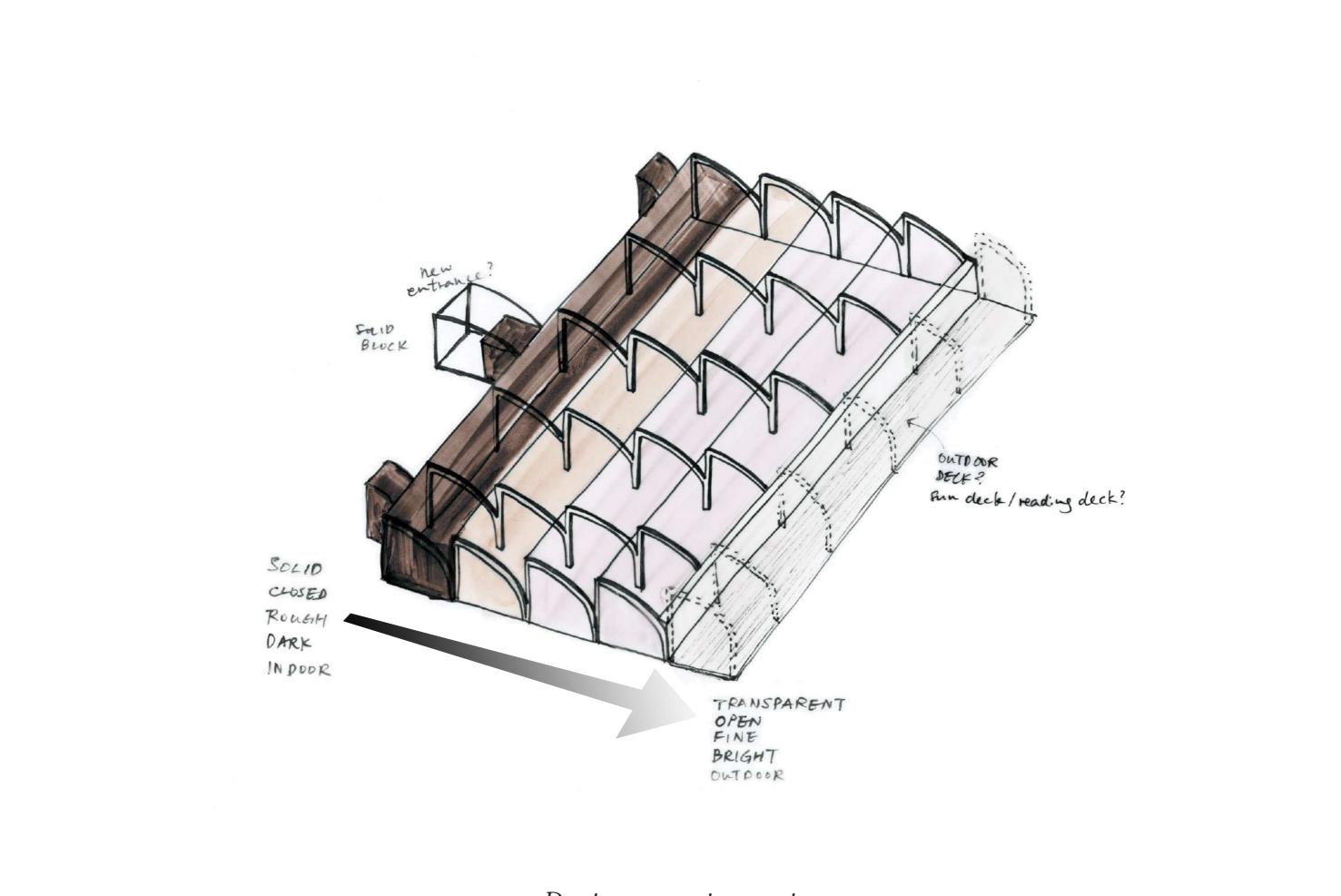




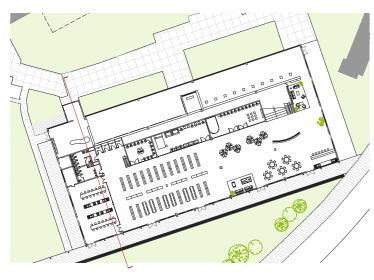
Pottery Studio - Interior







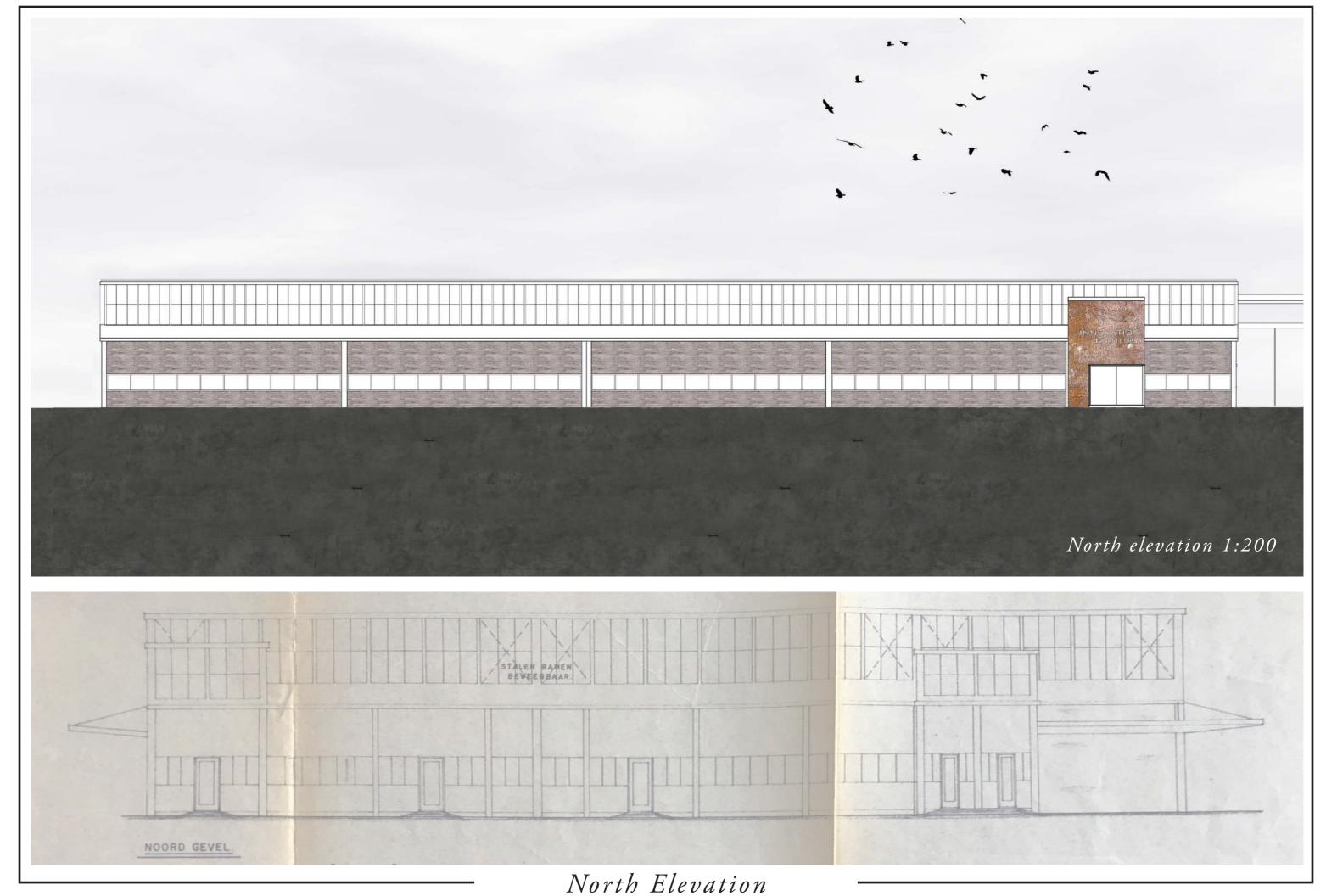




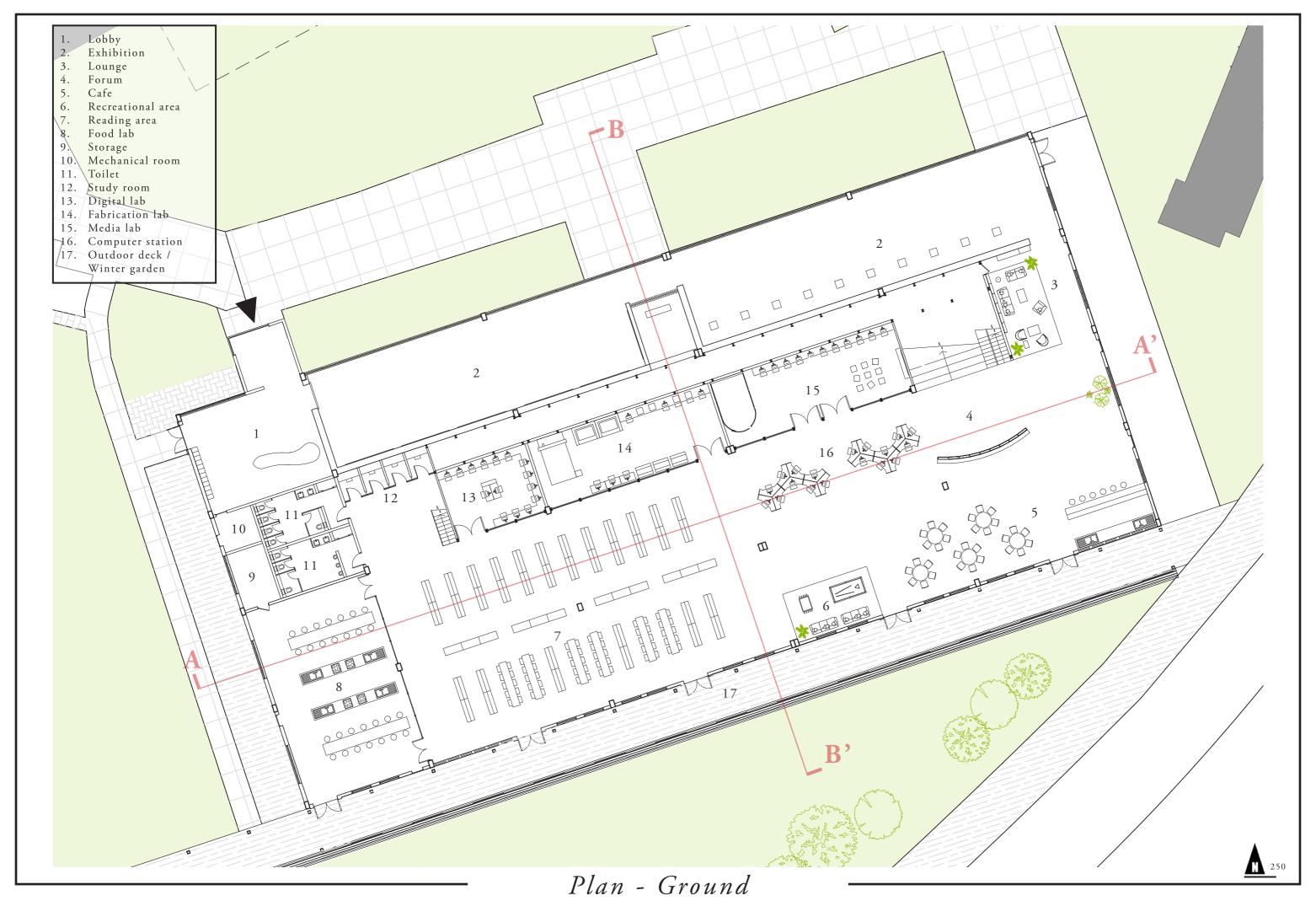
Echo of existing form



New Entrance





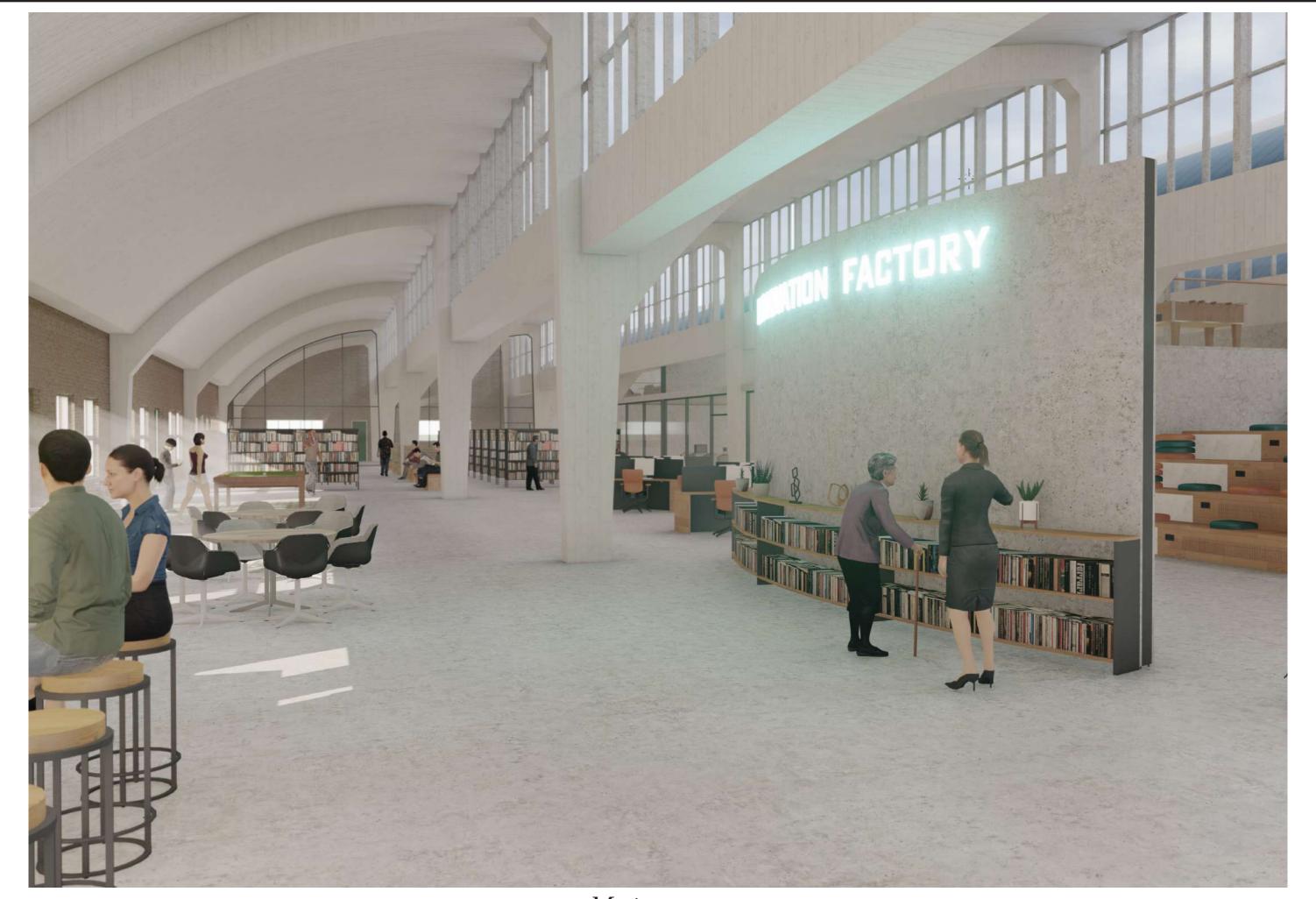




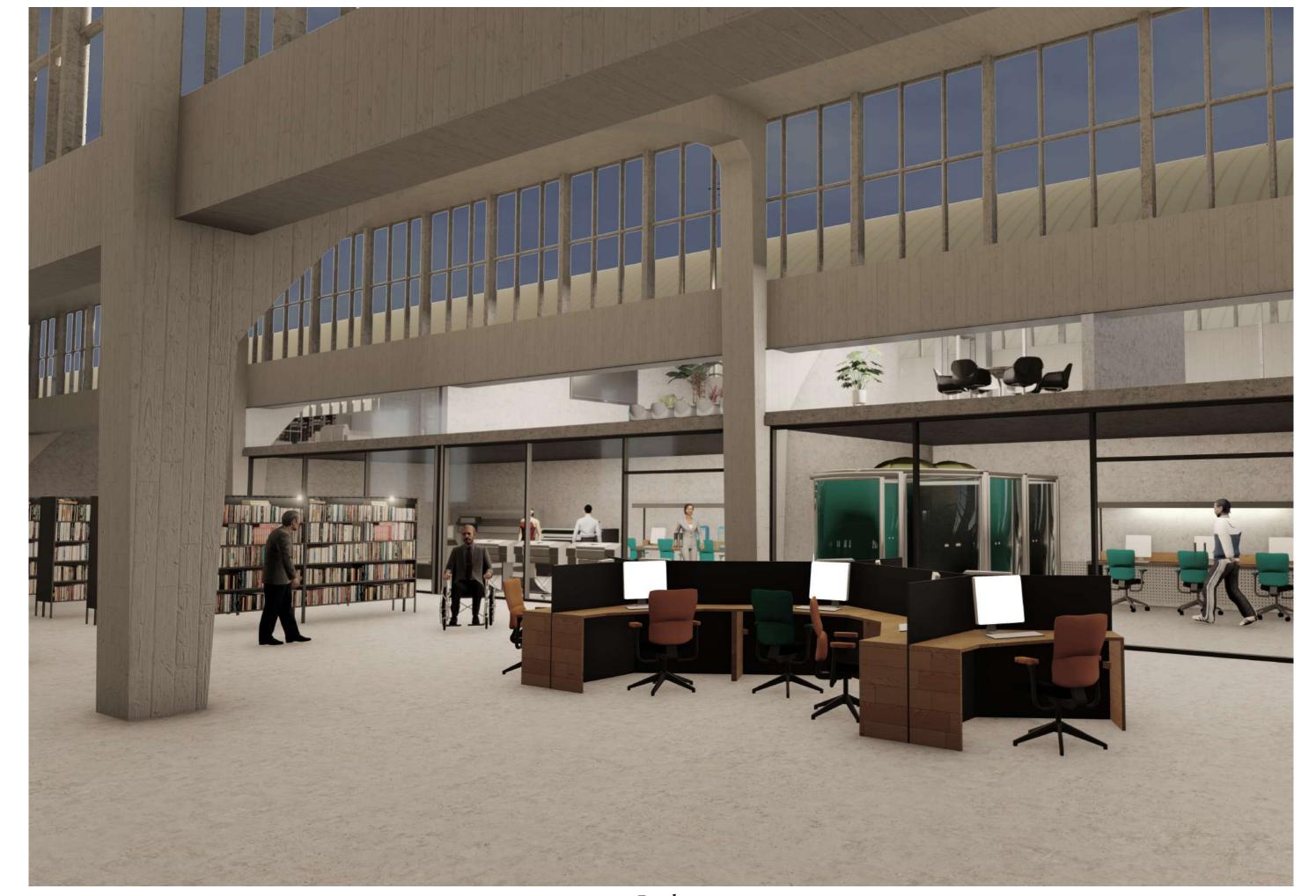
Element of surprise



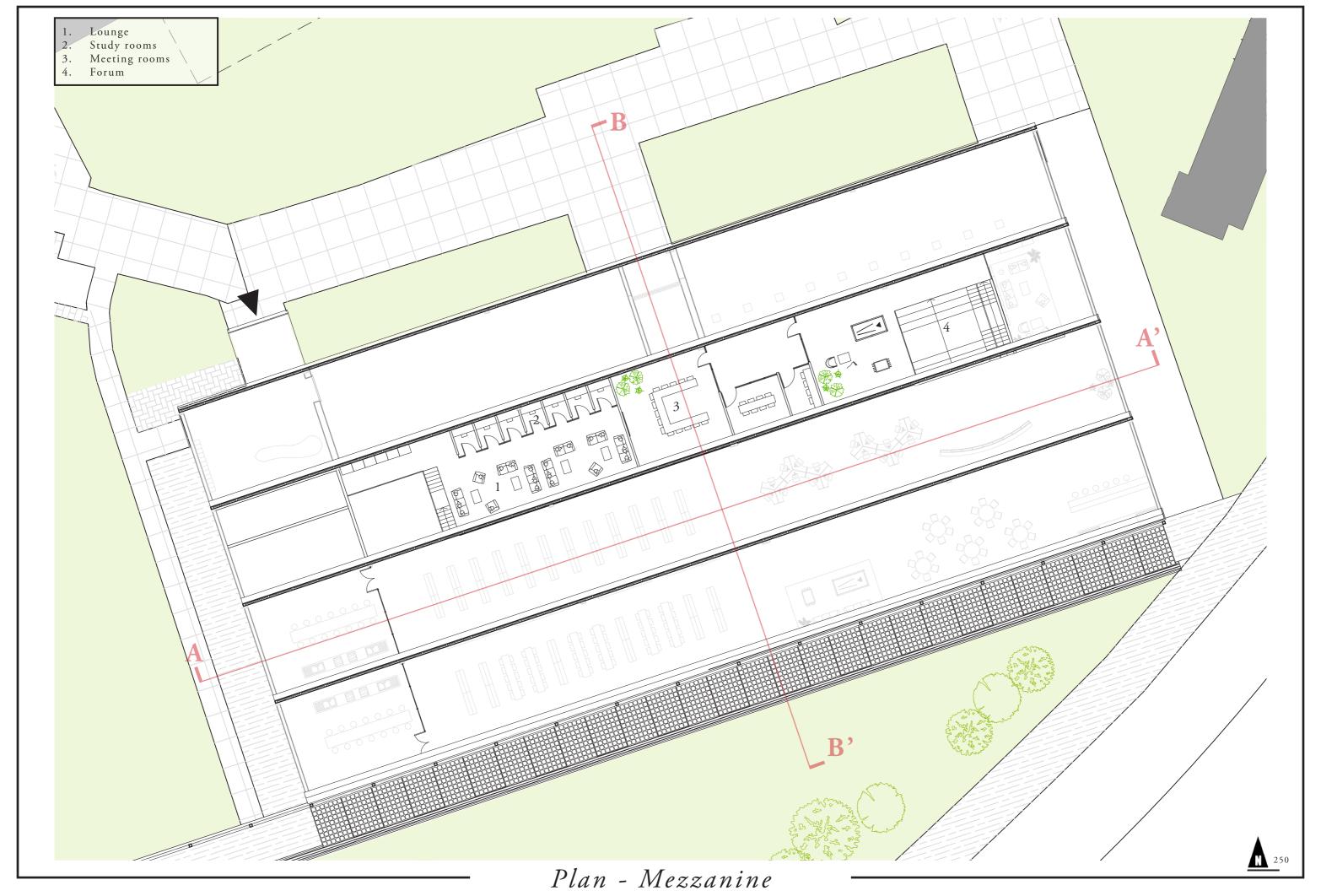
Public living room

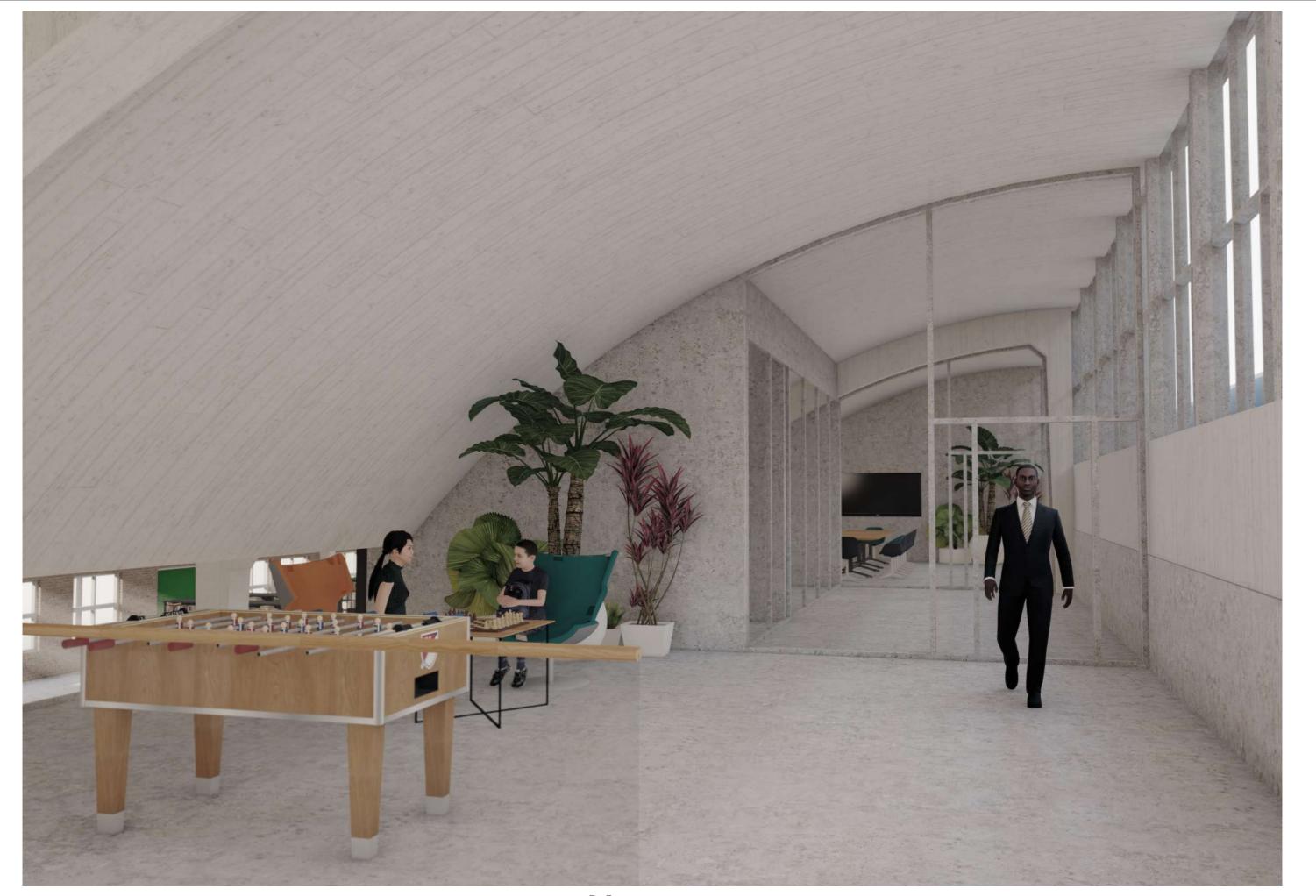


Main space



Labs

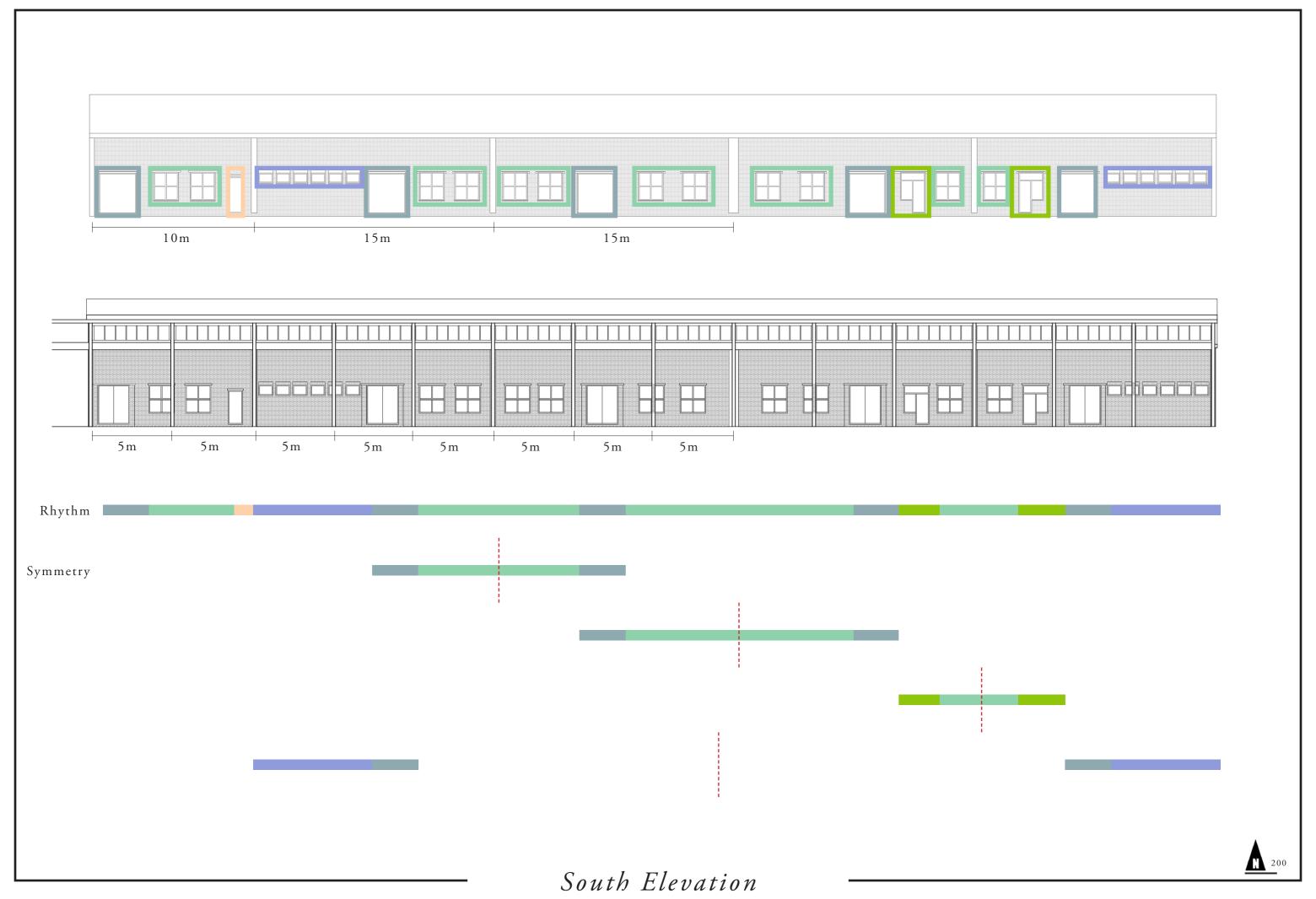


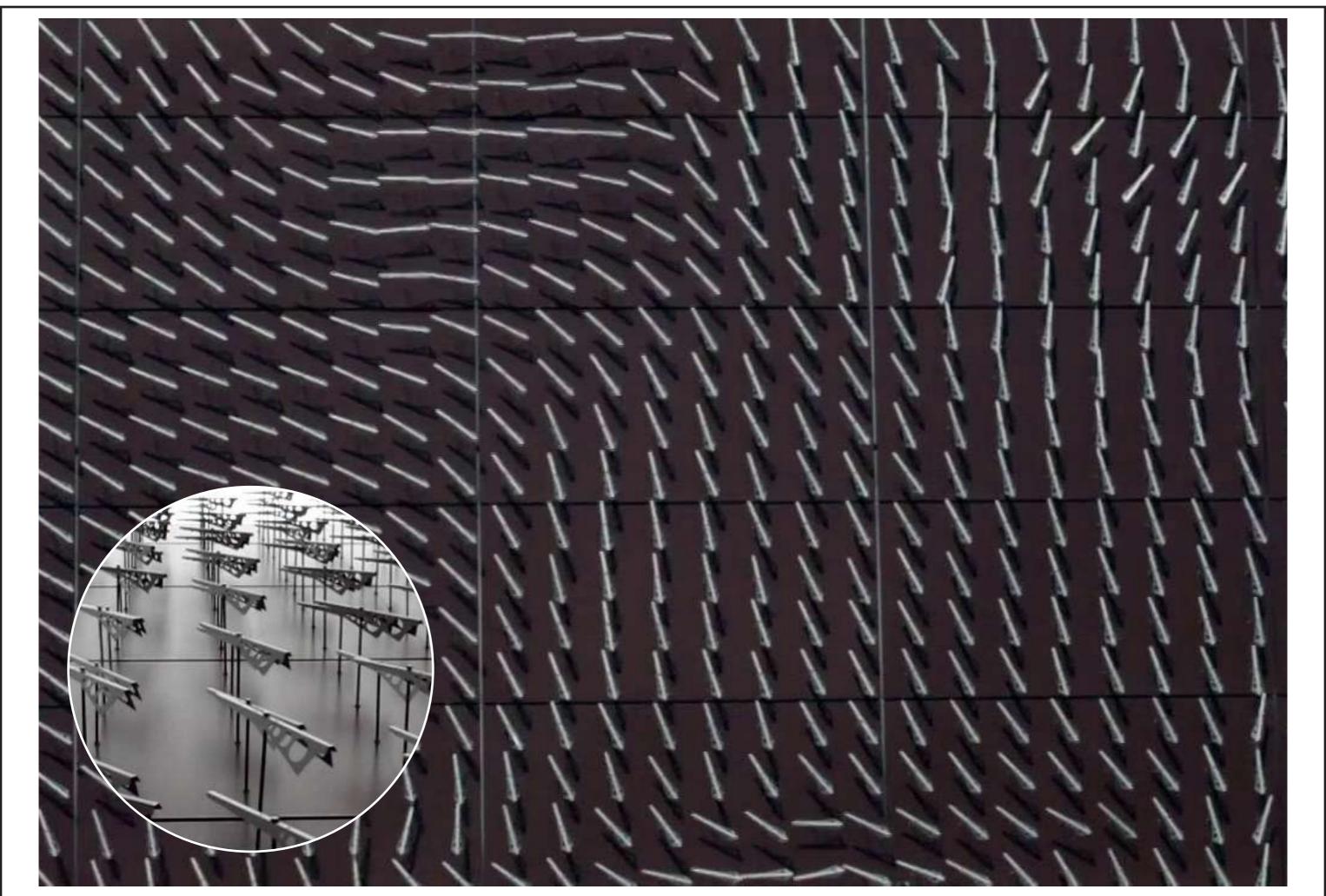


Mezzanine

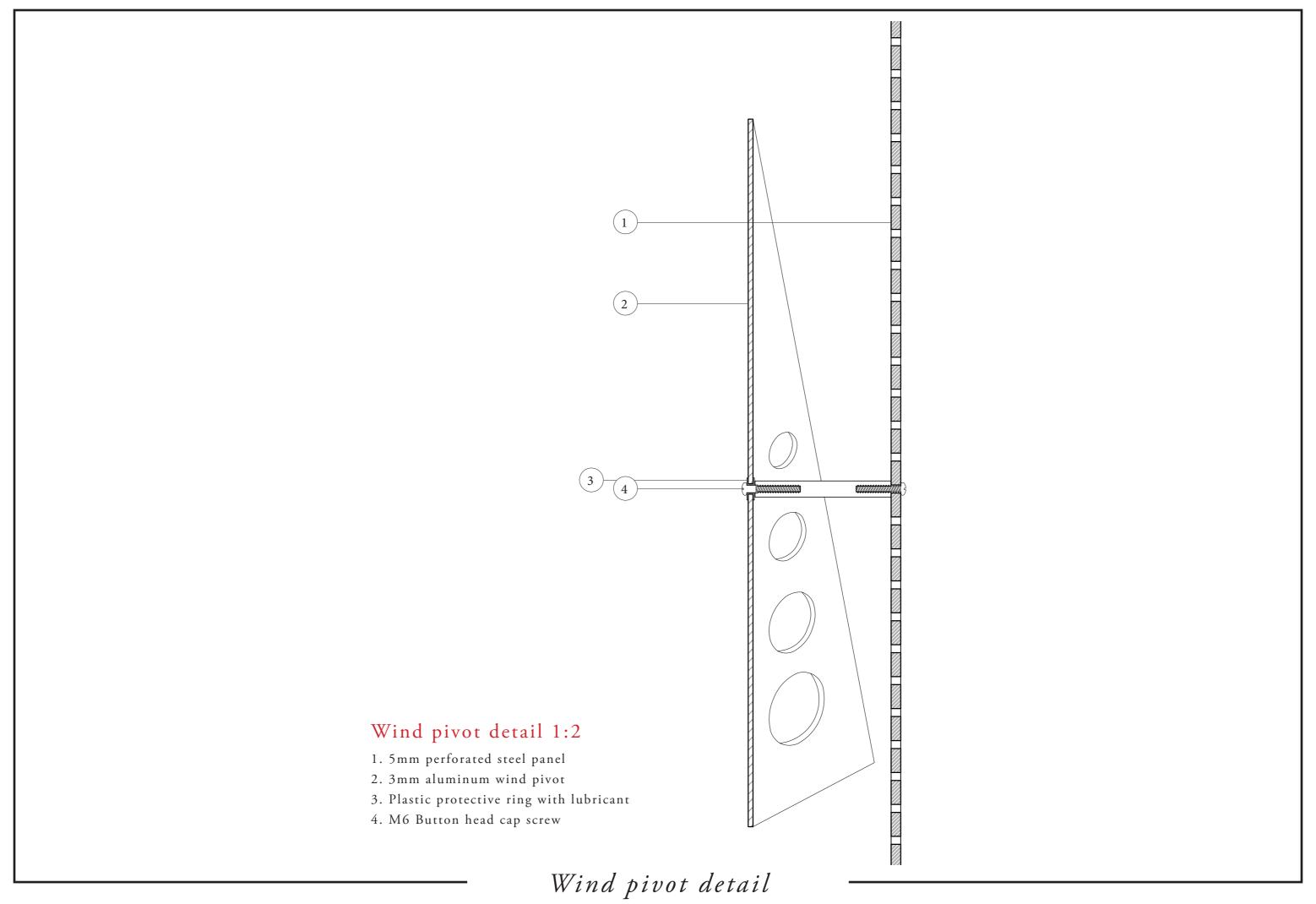


The old and the new





Facade that dances with the wind

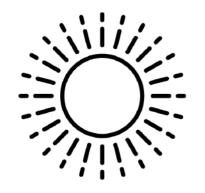




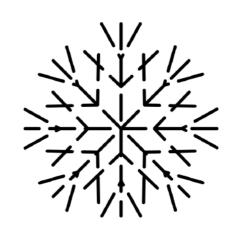
Exterior



New time layer of Hembrug





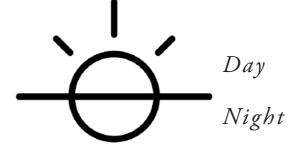


Sun shading

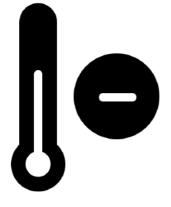
Rain

Avoid wind

Summer



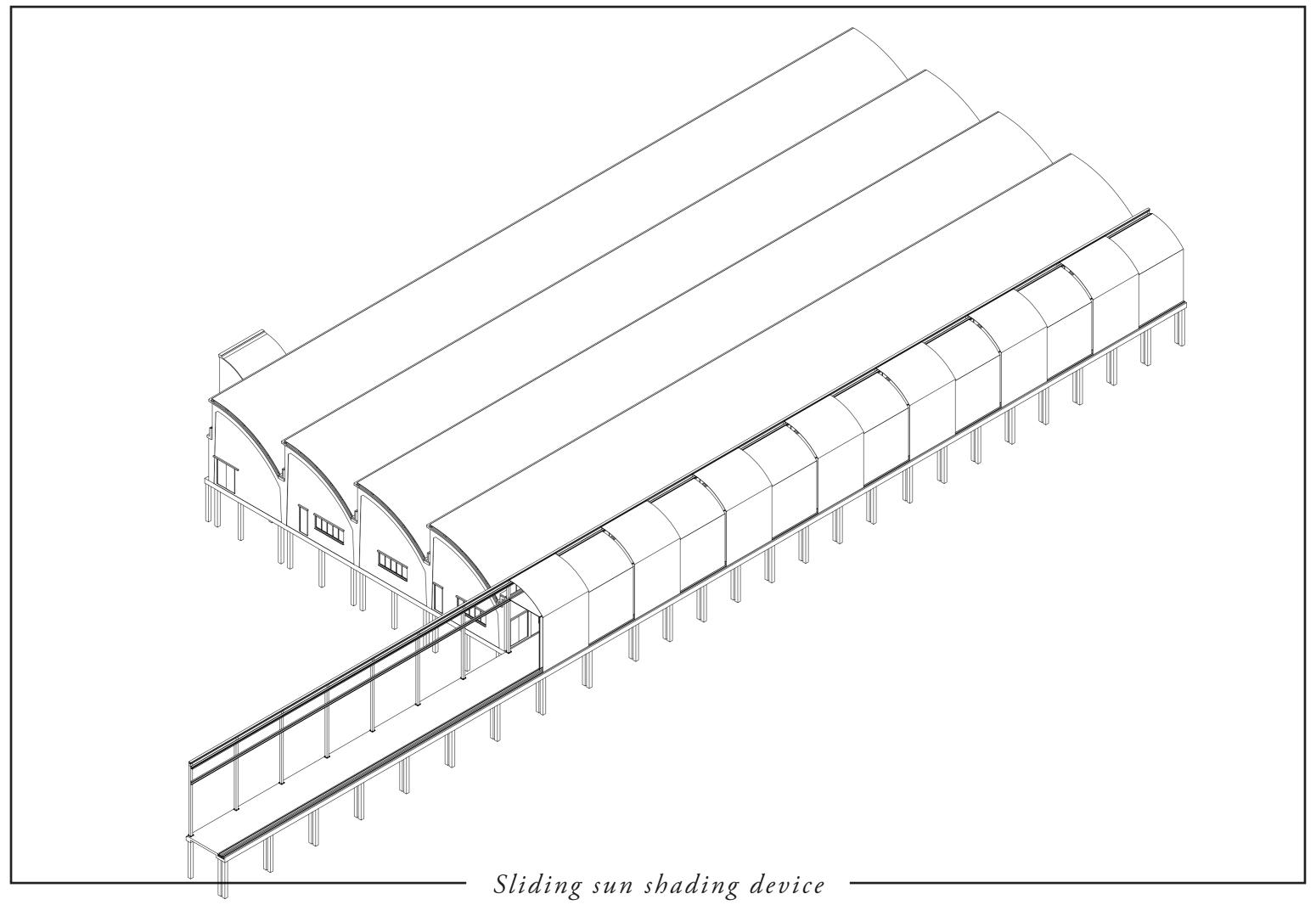
Winter

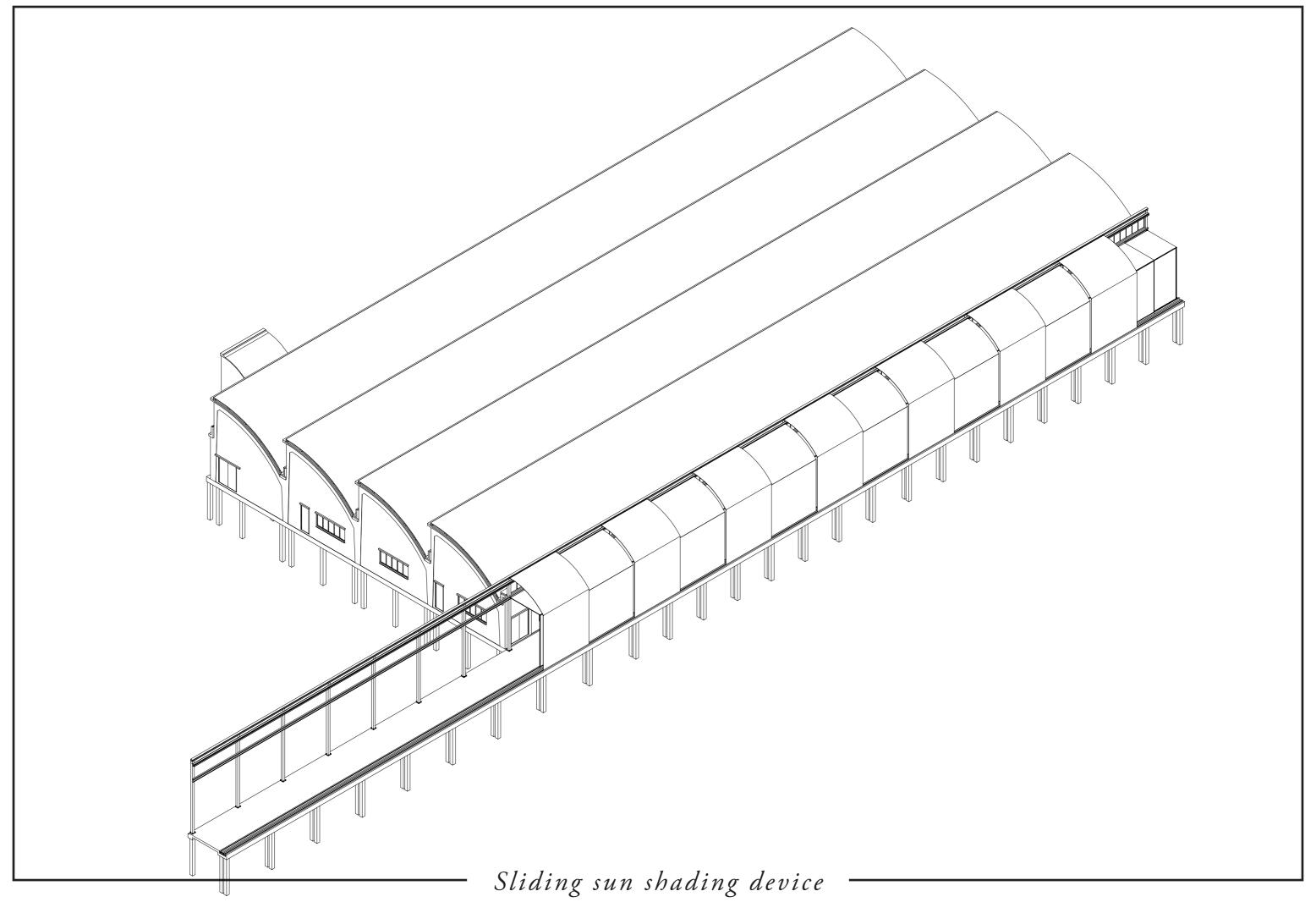


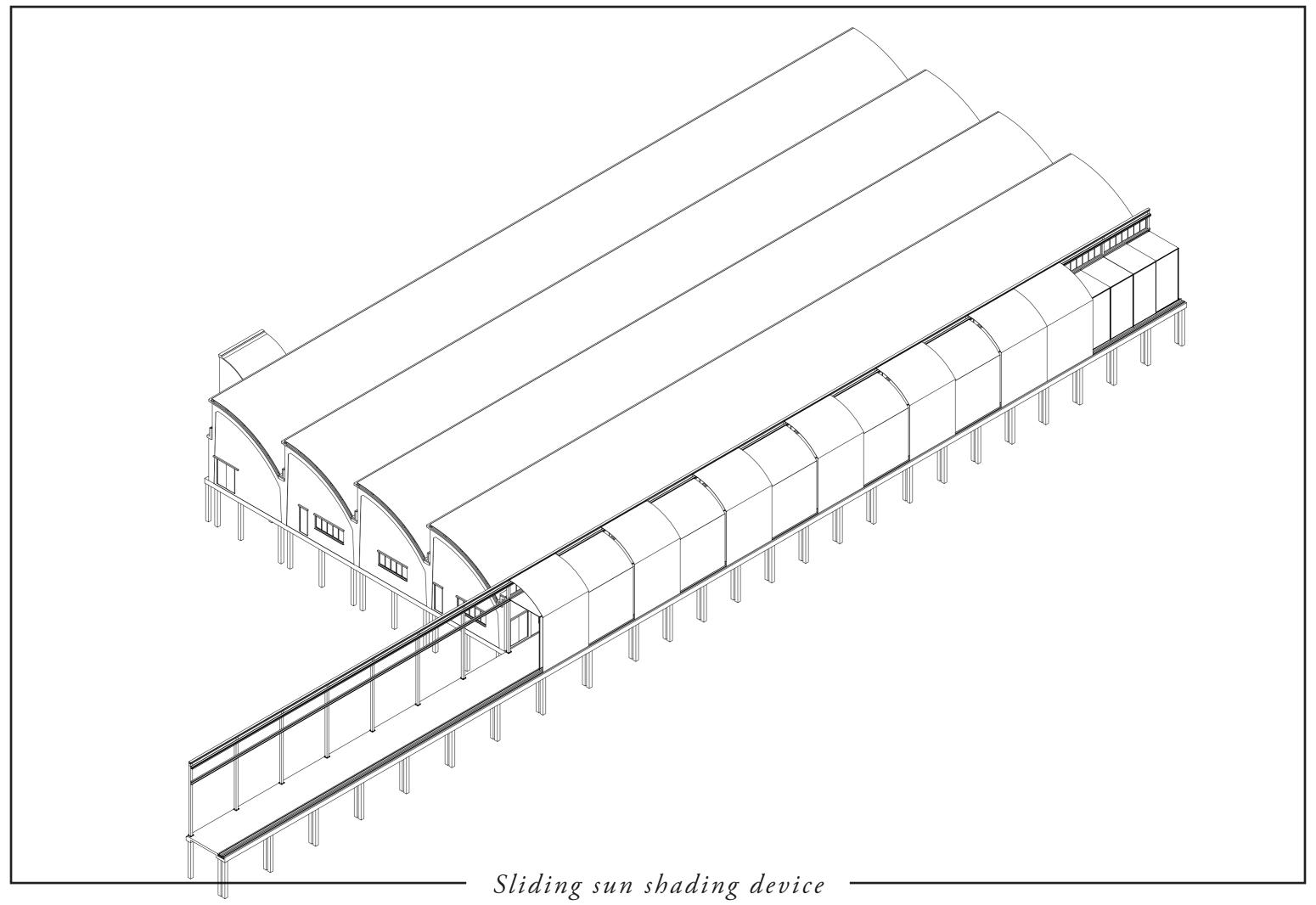


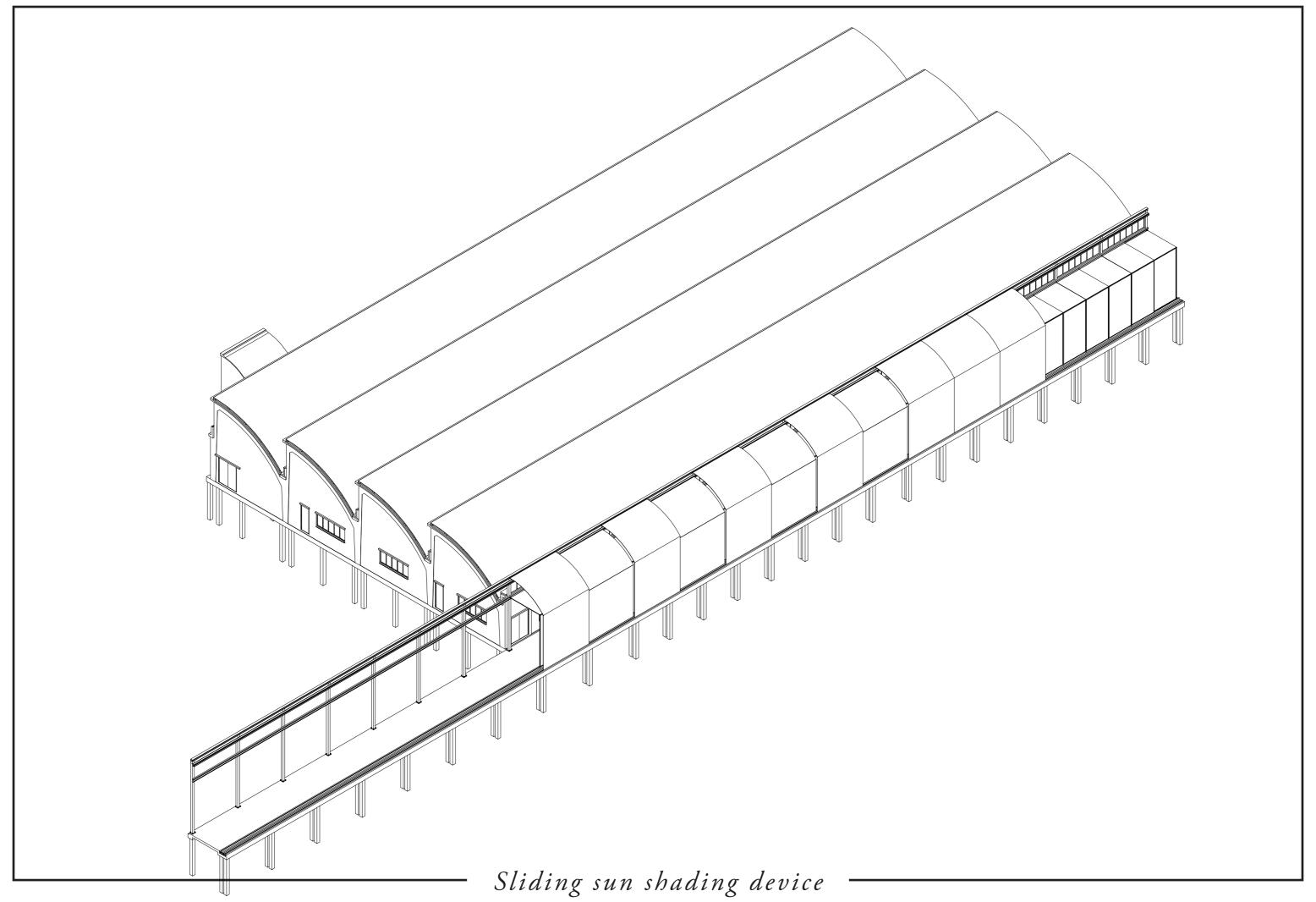


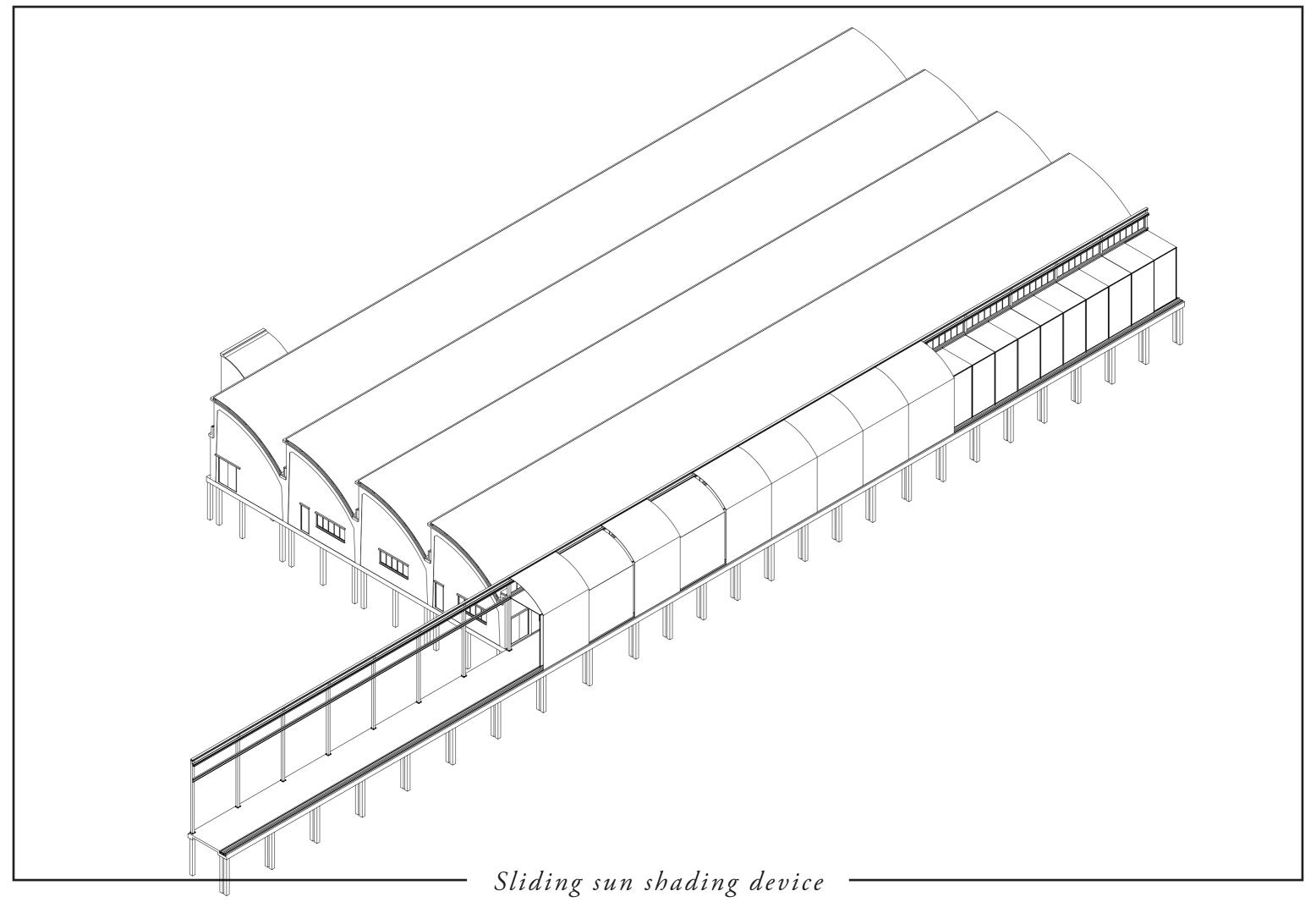
Keep warmth

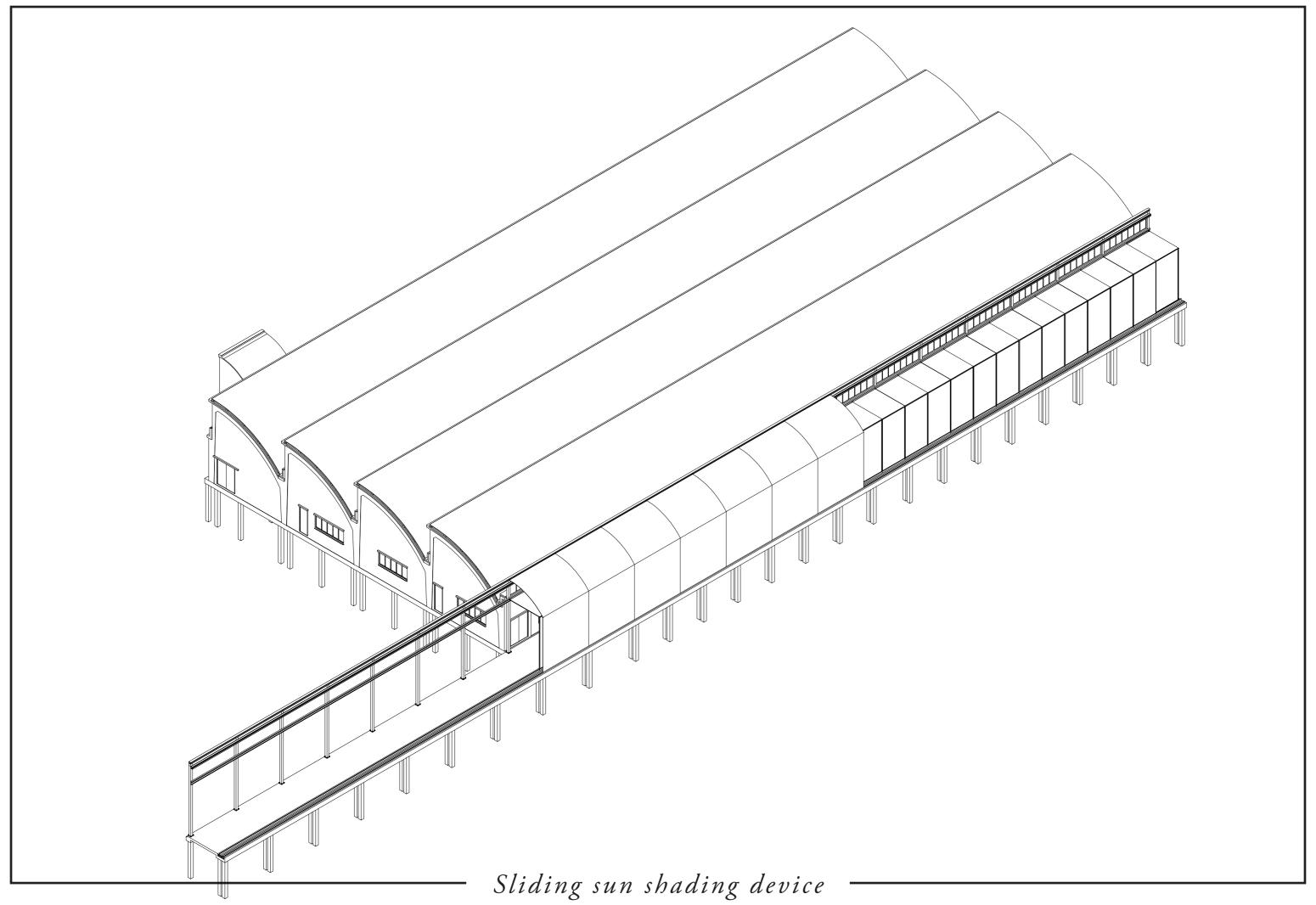


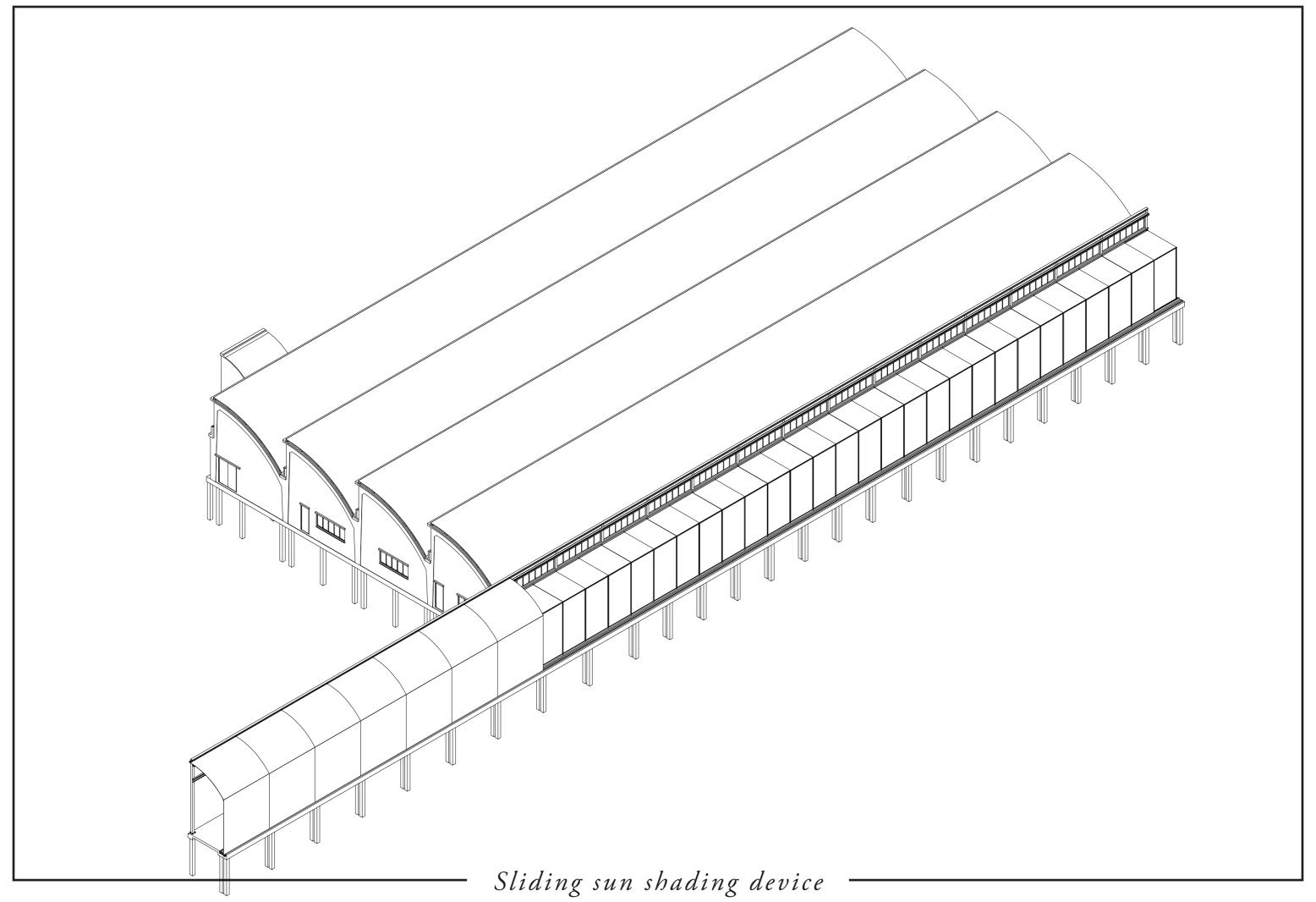


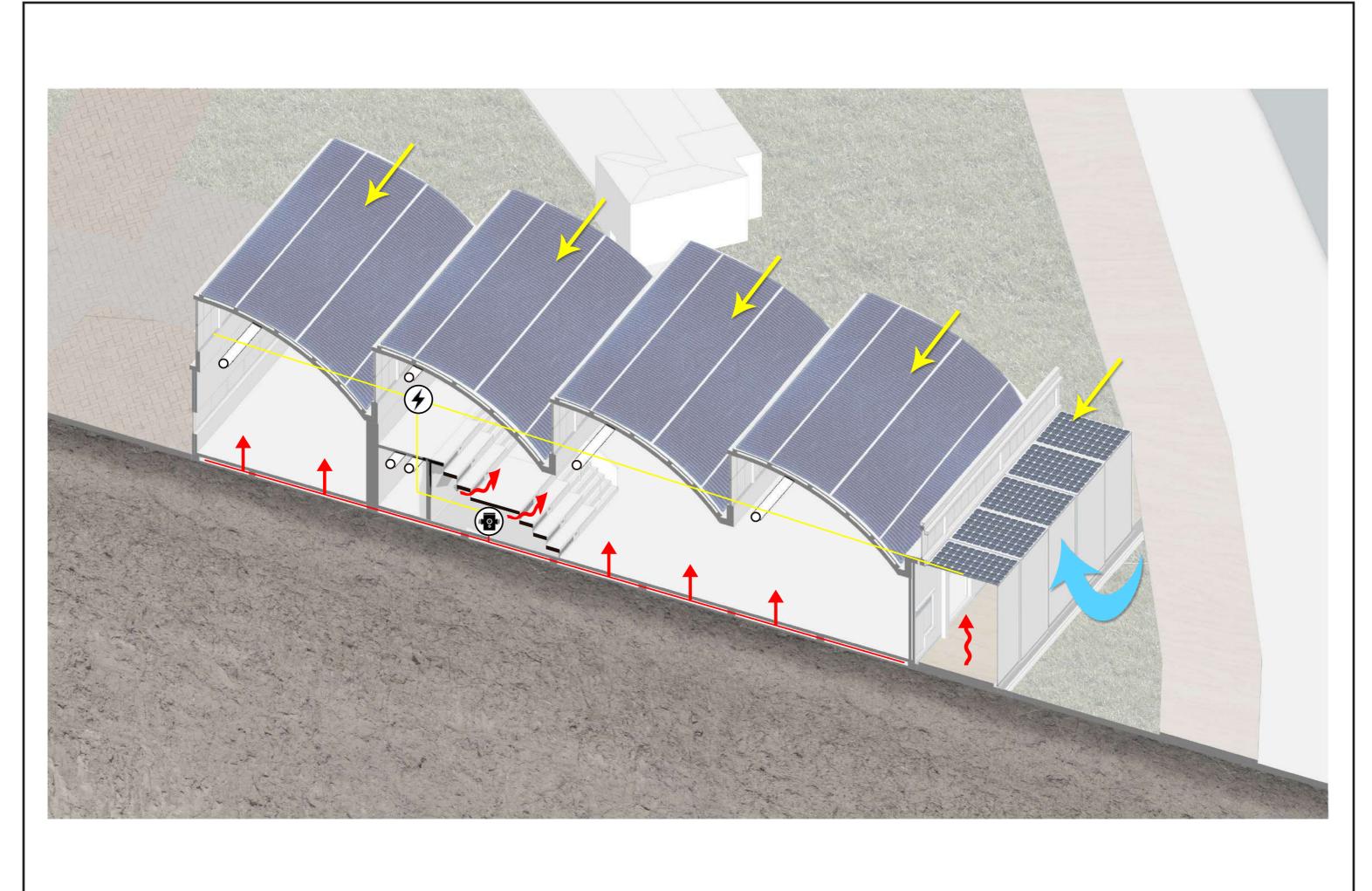




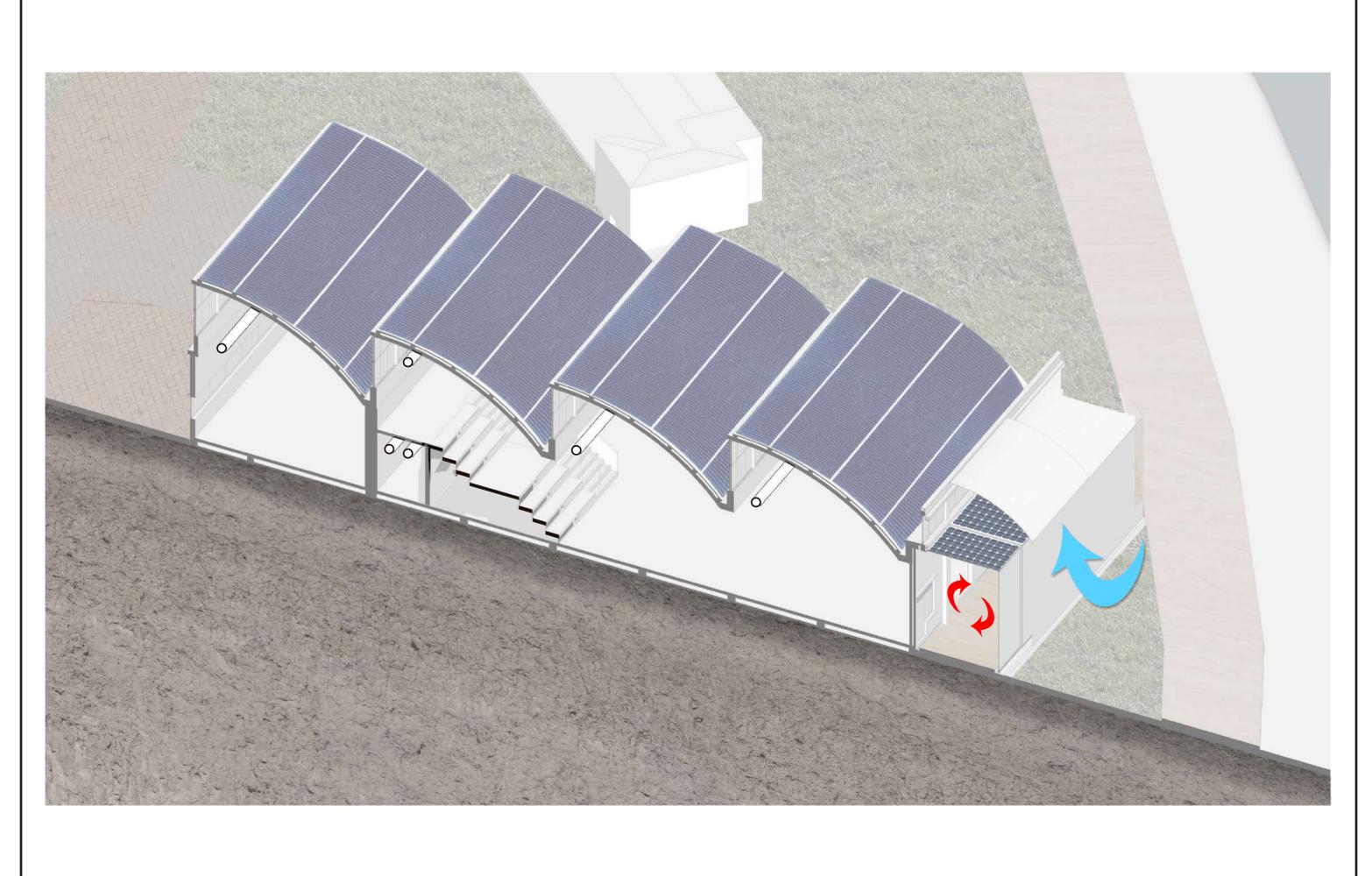


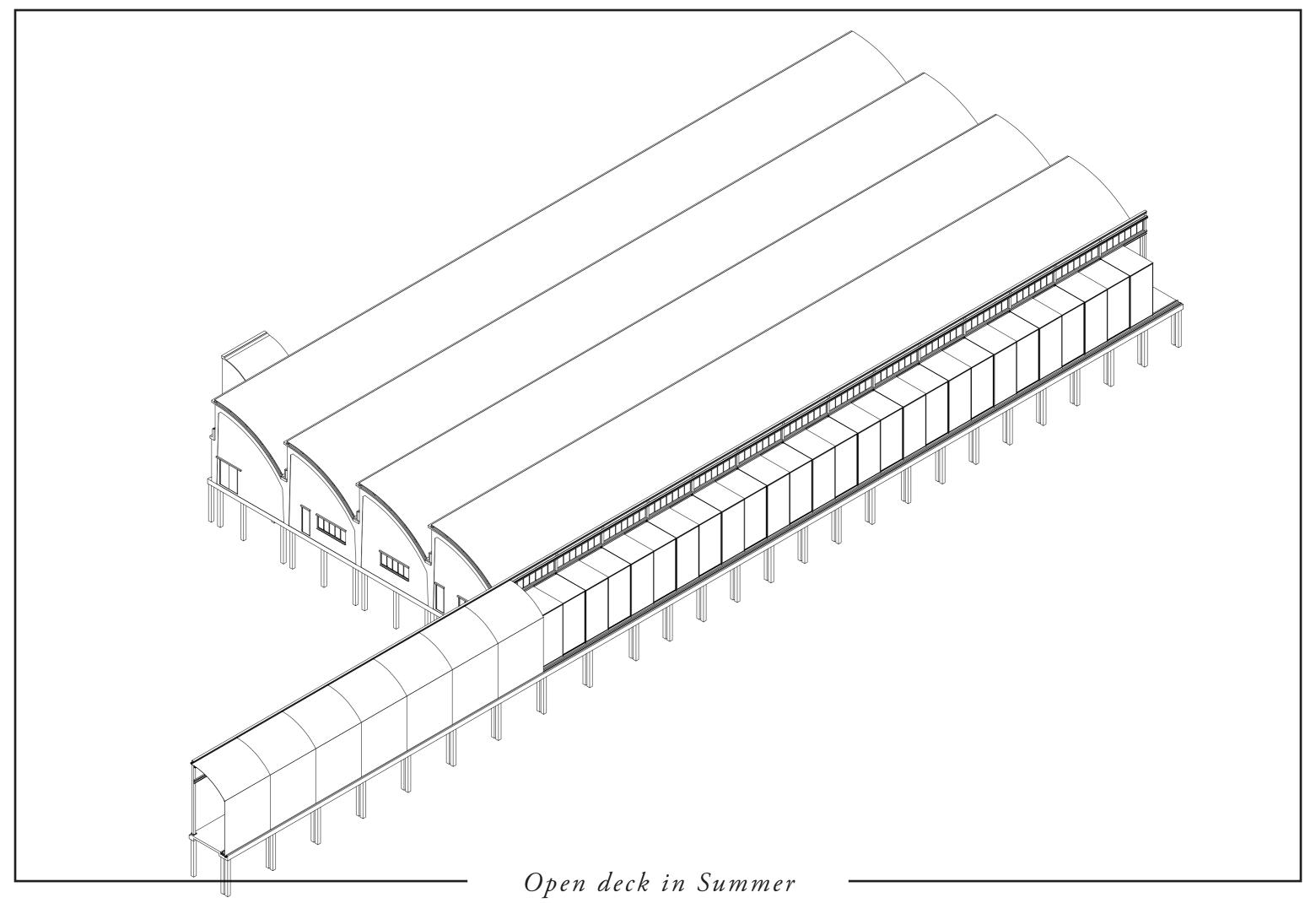


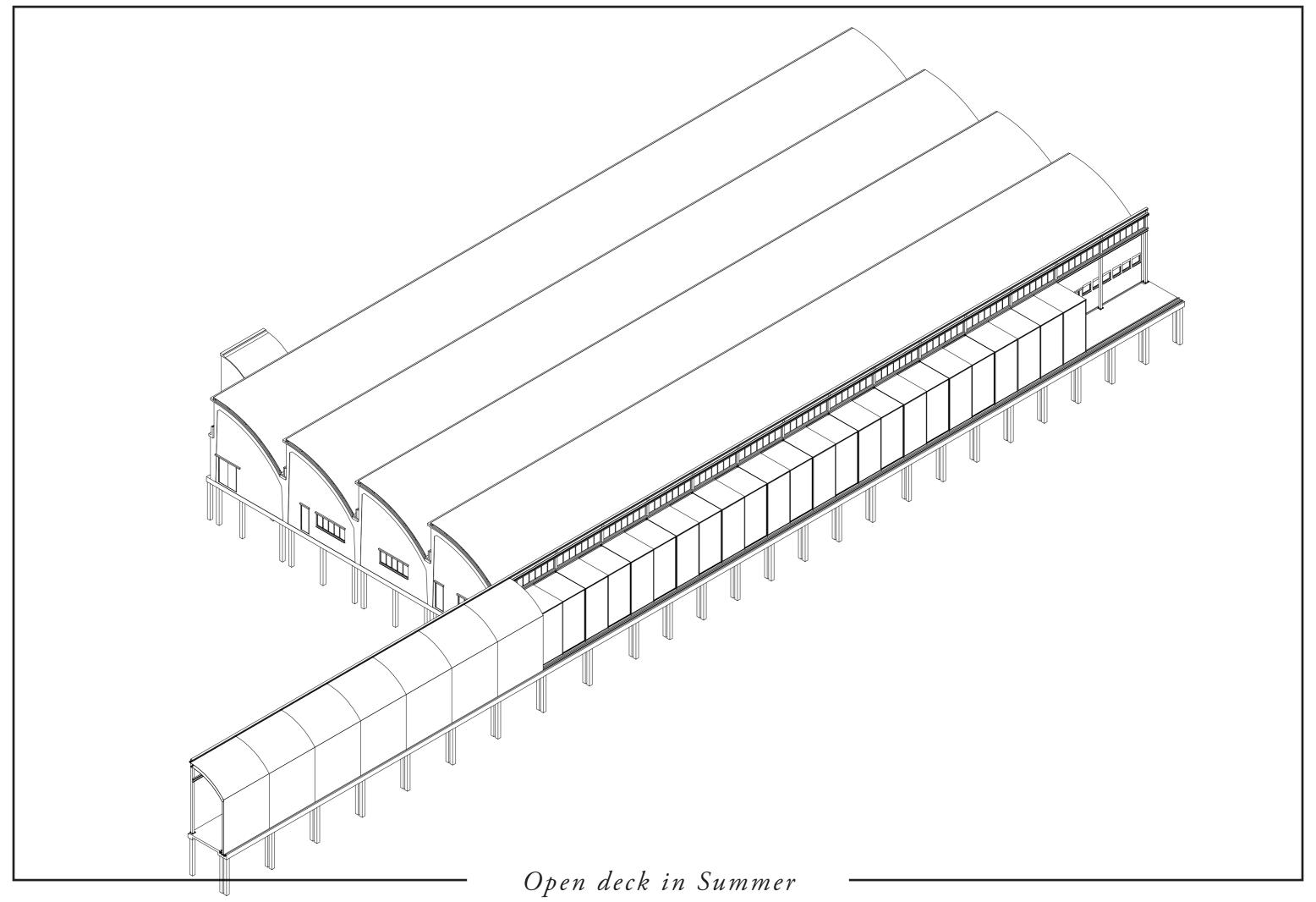


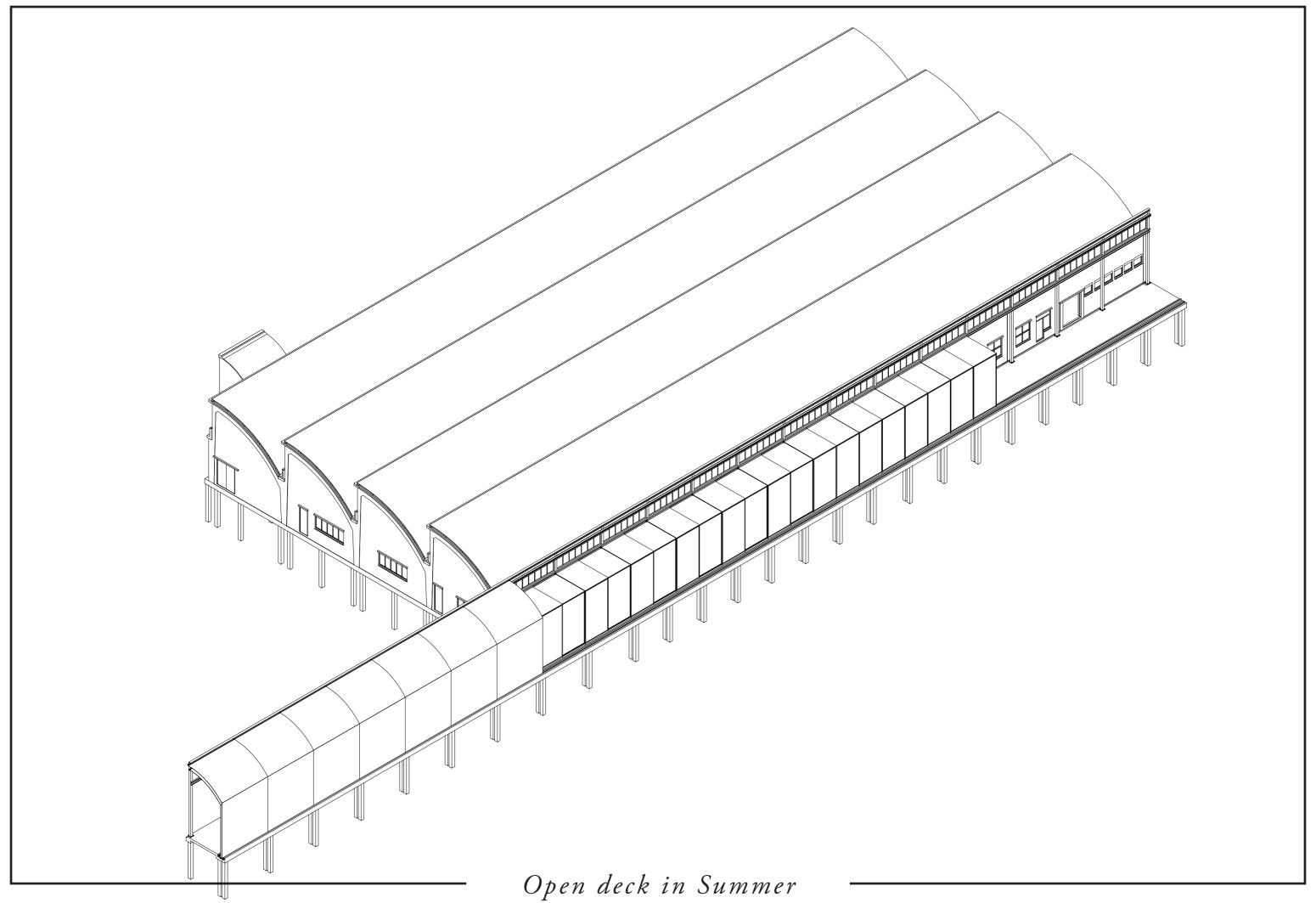


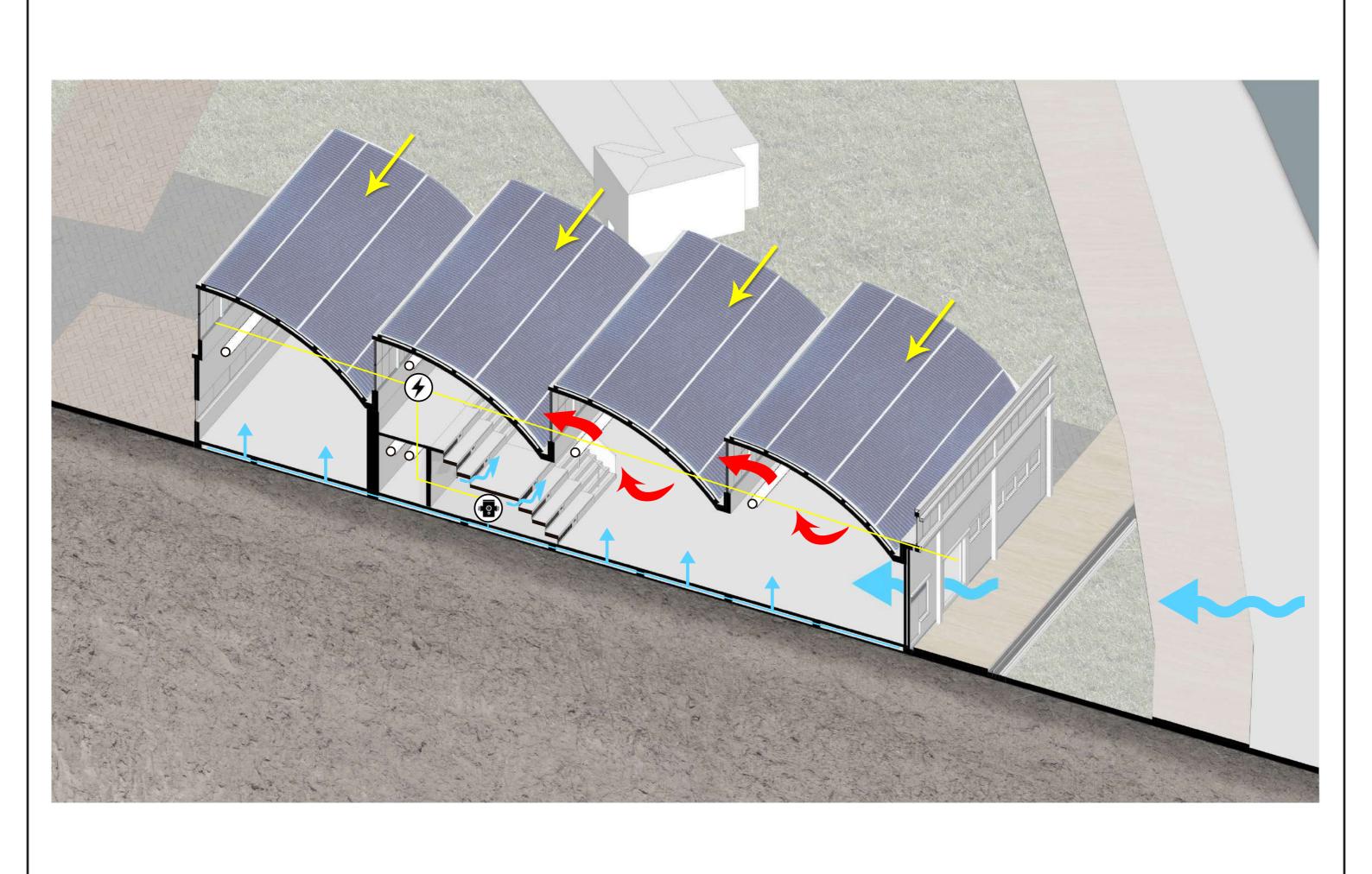
-Climate strategy - Winter Day-



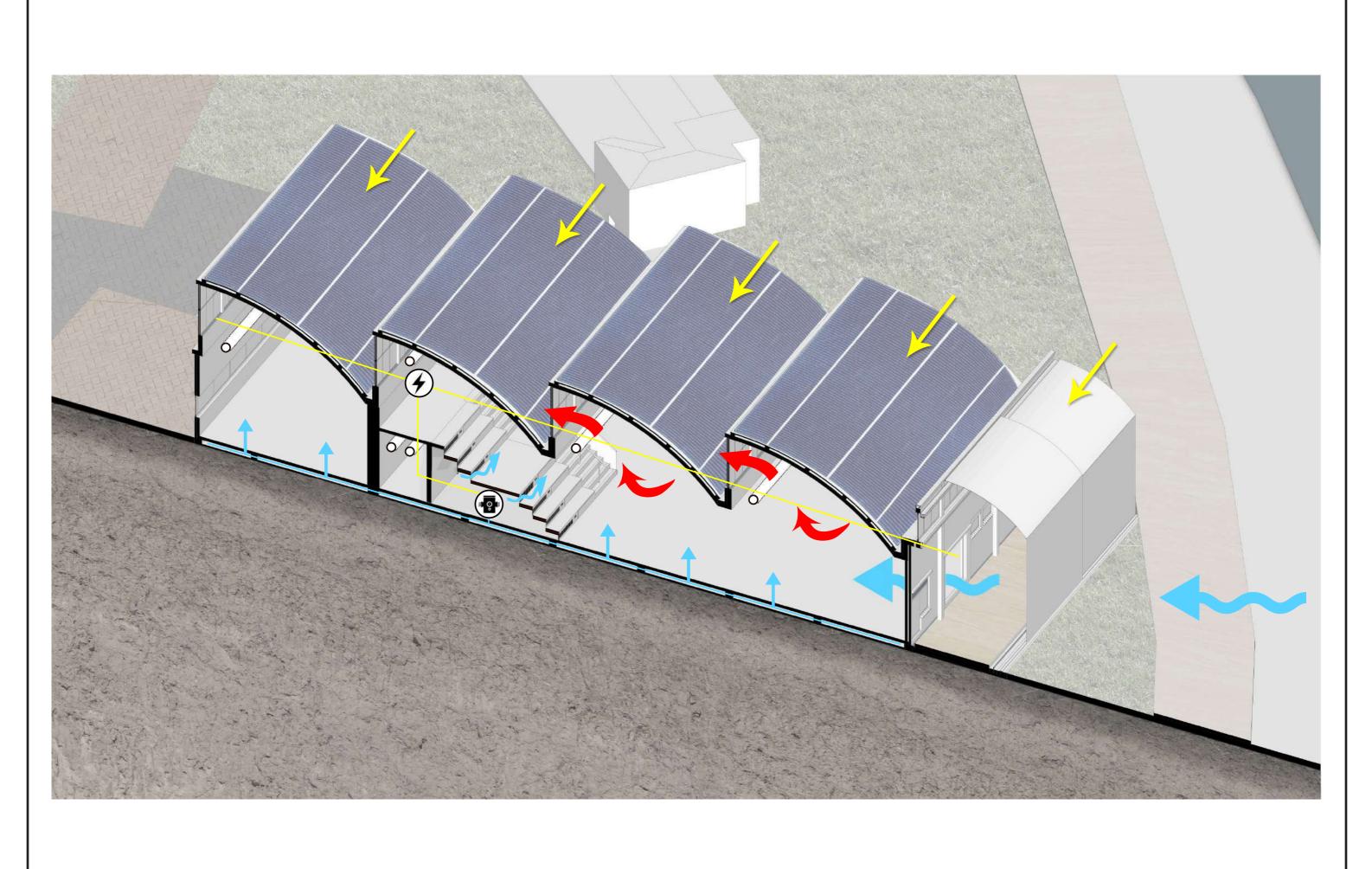




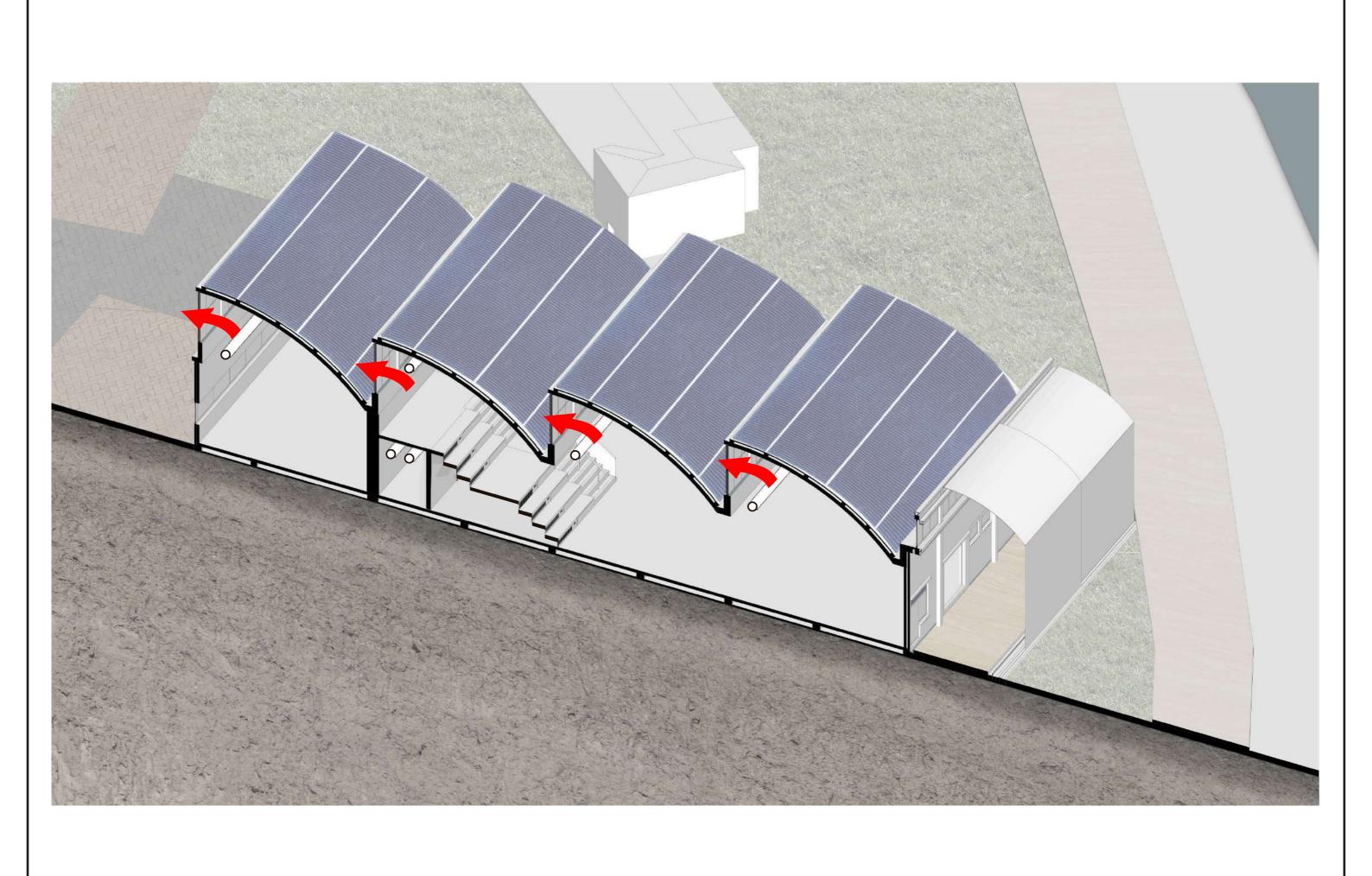




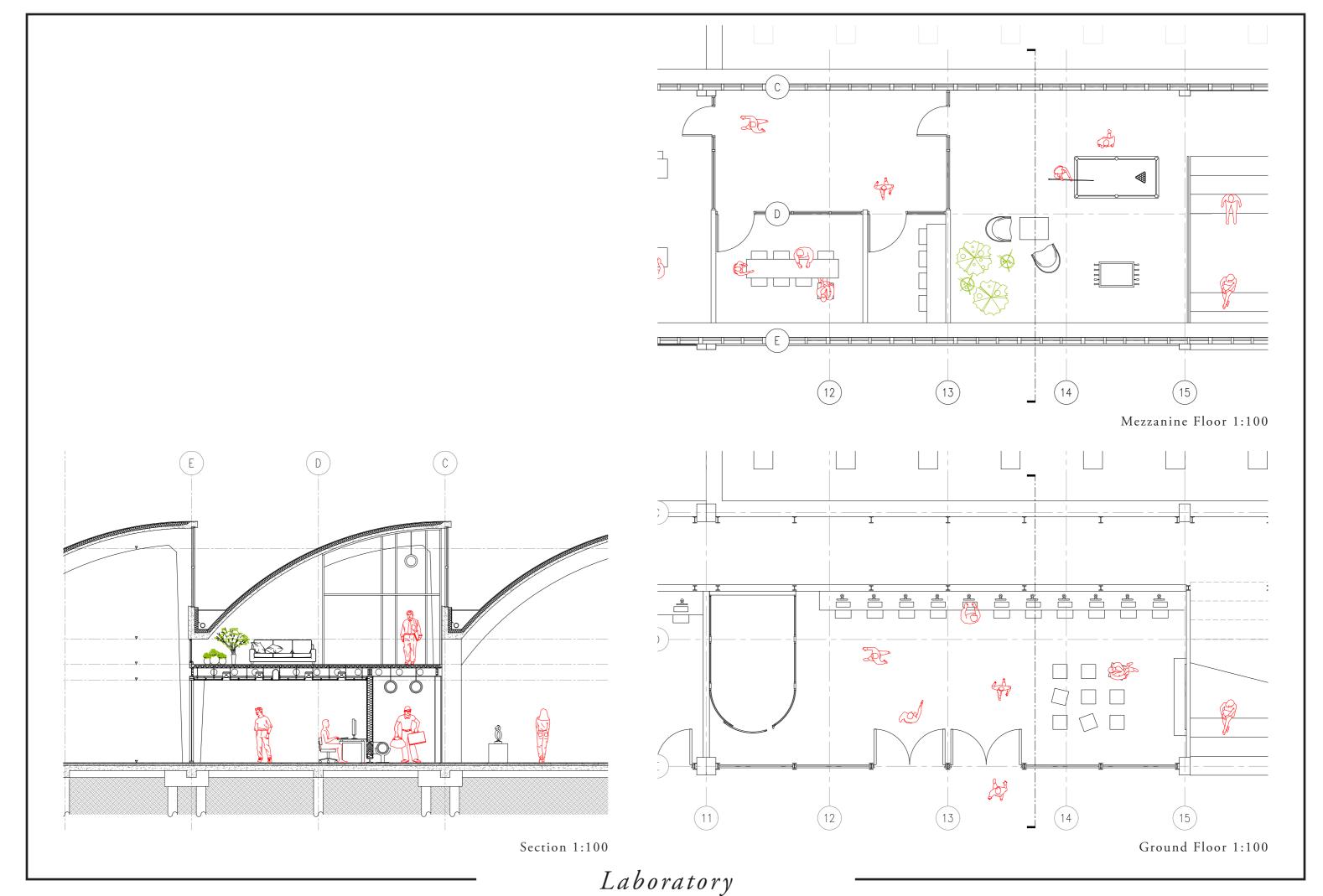
Summer Day - Open

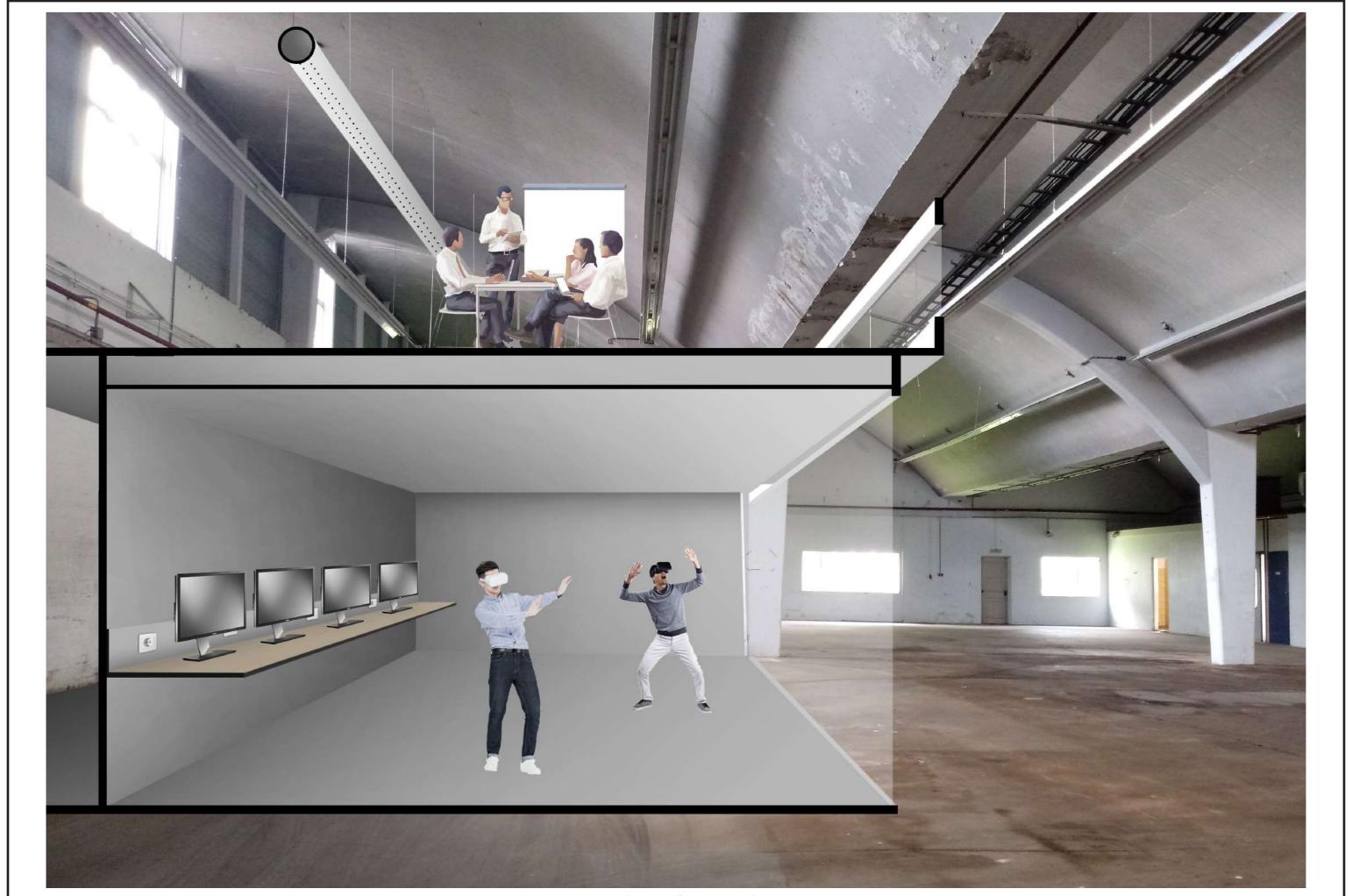


Summer Day - shaded



Summer Night

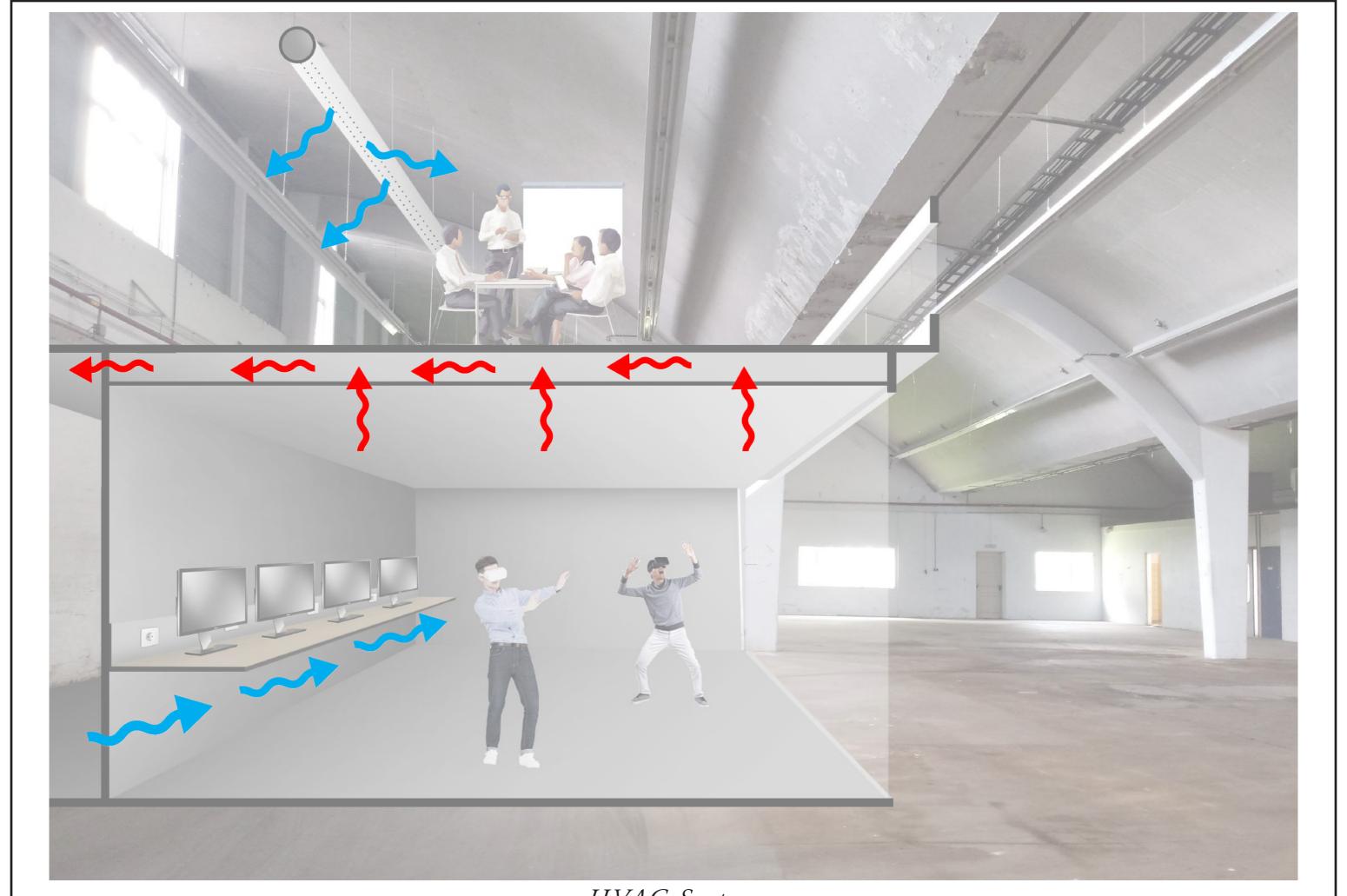




Control indoor climate



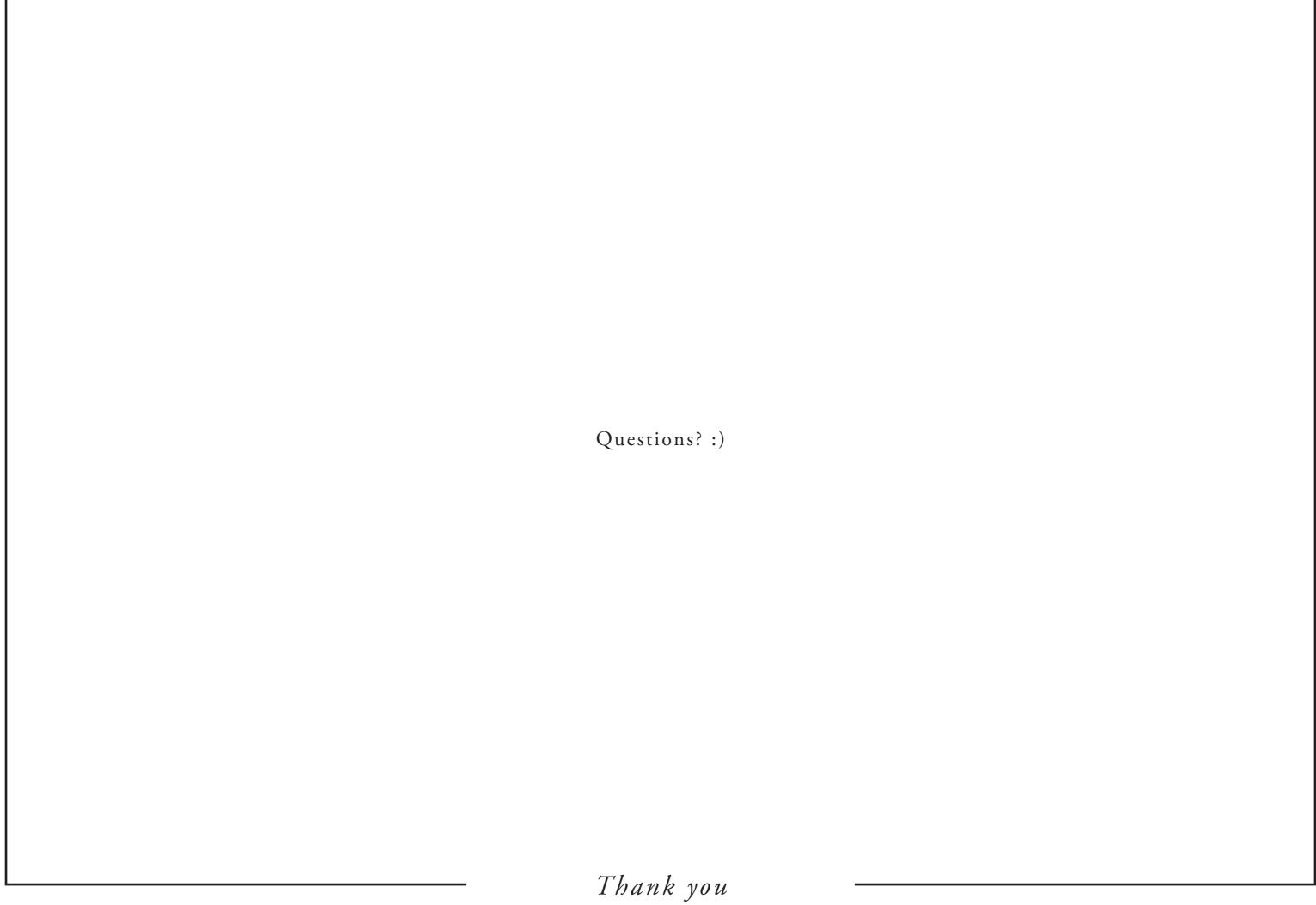
-Acoustics & visual connection-

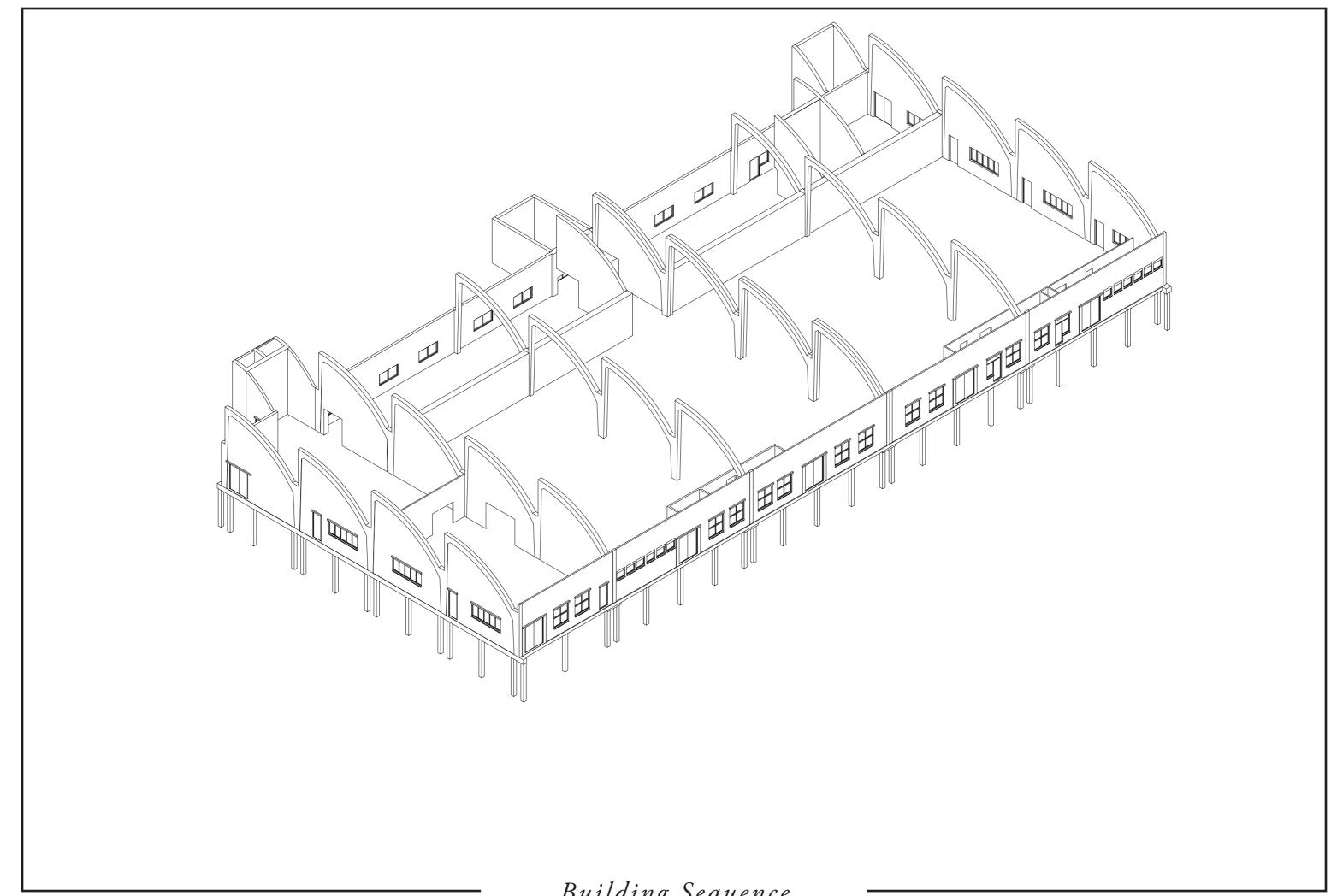


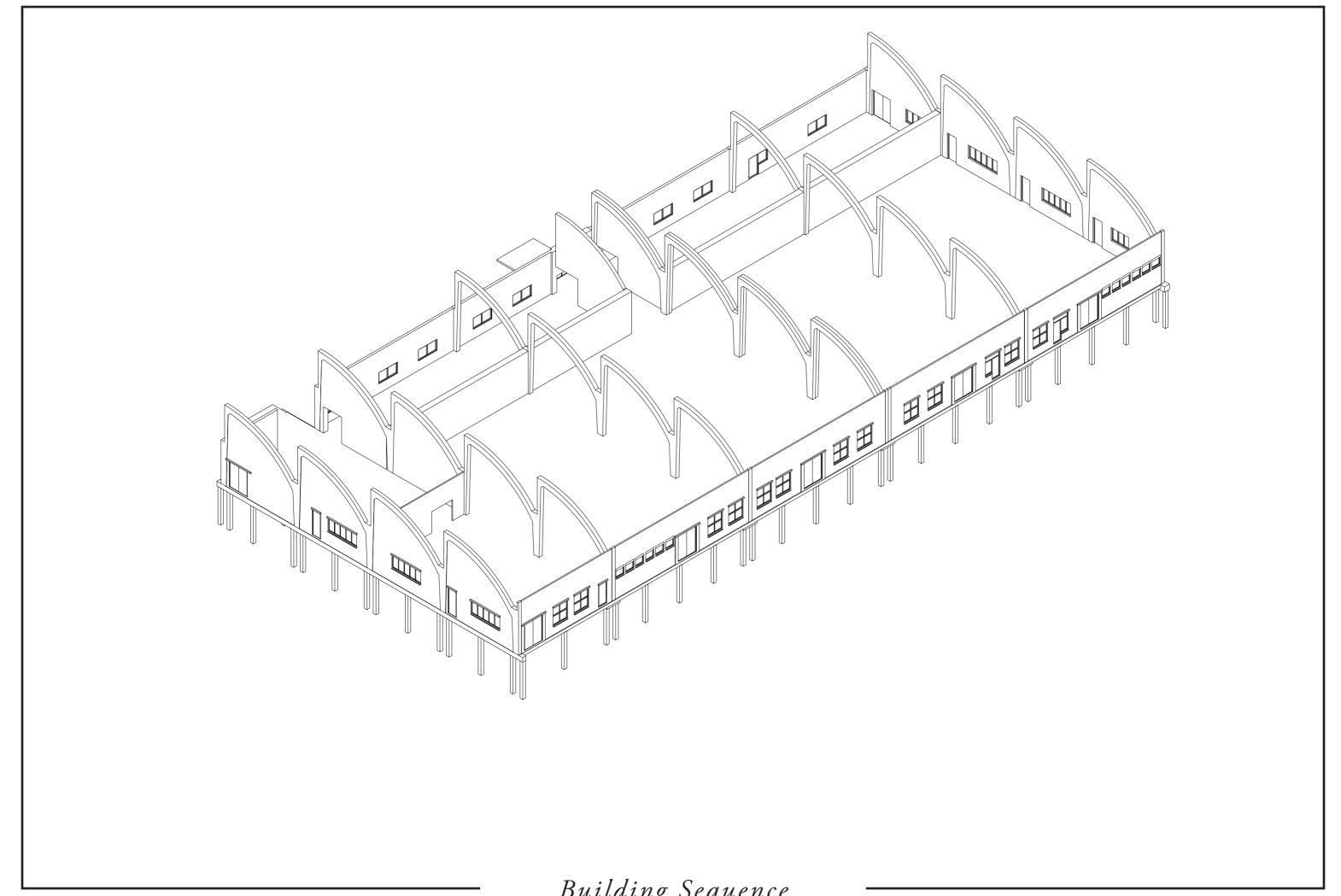
HVAC System

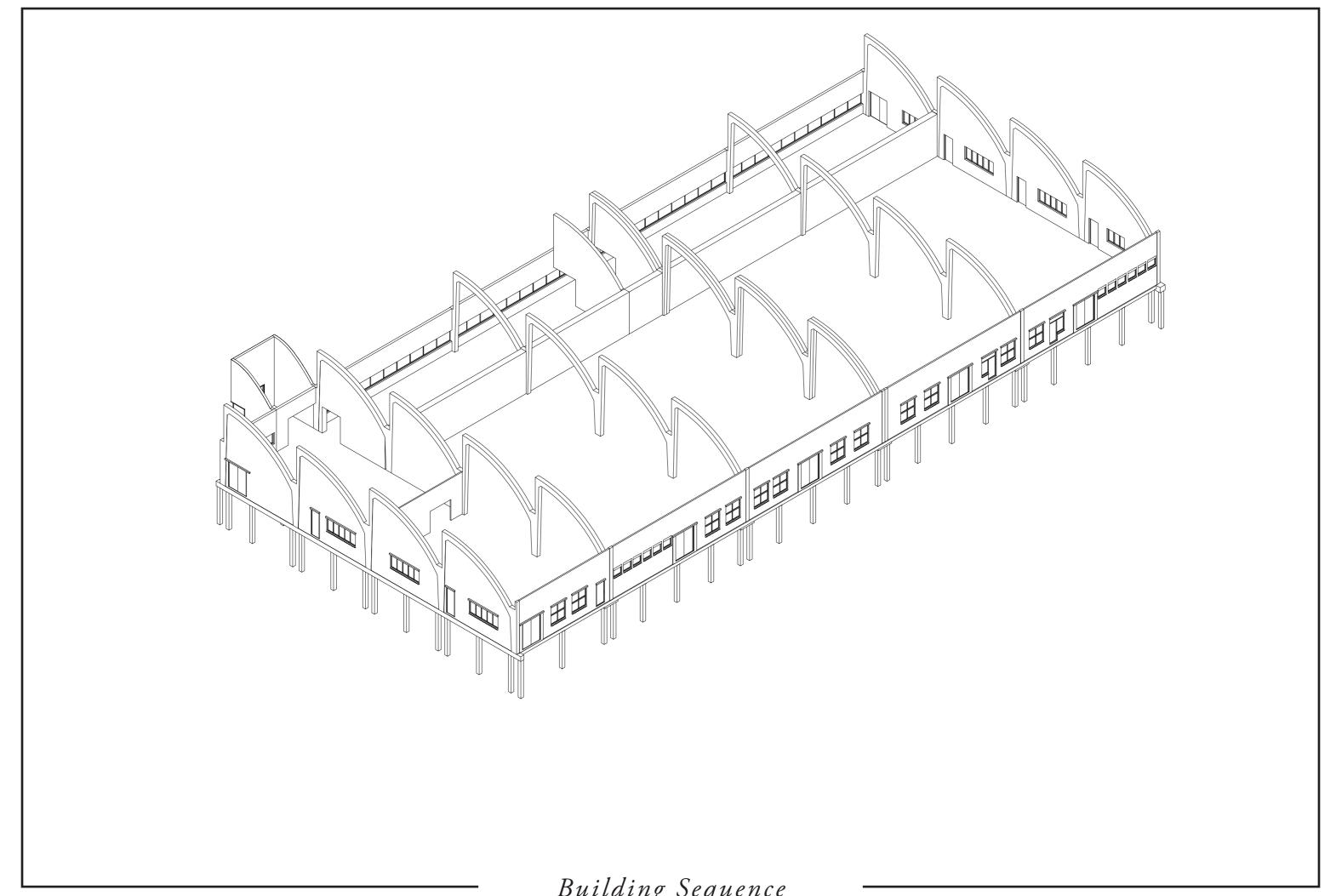


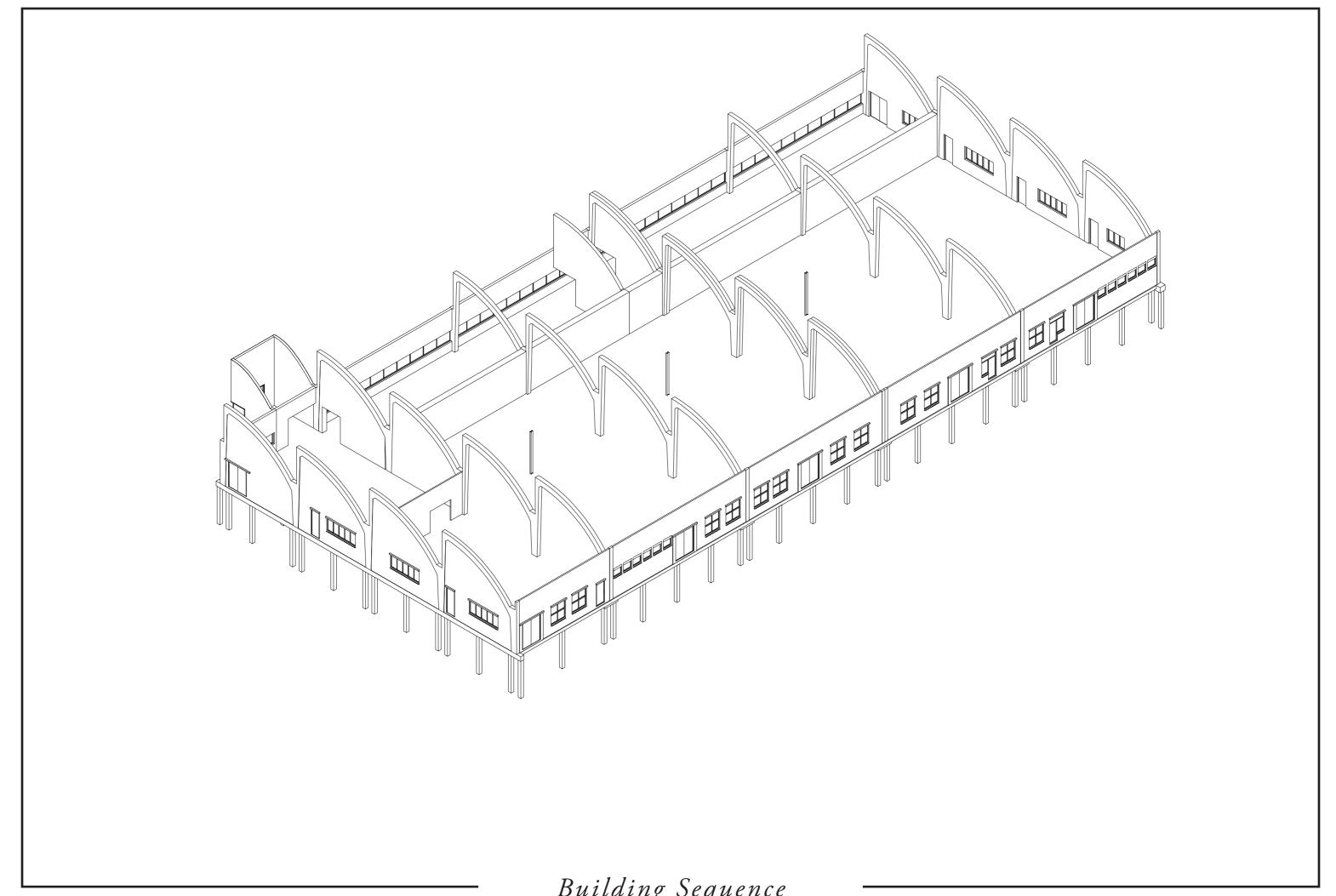


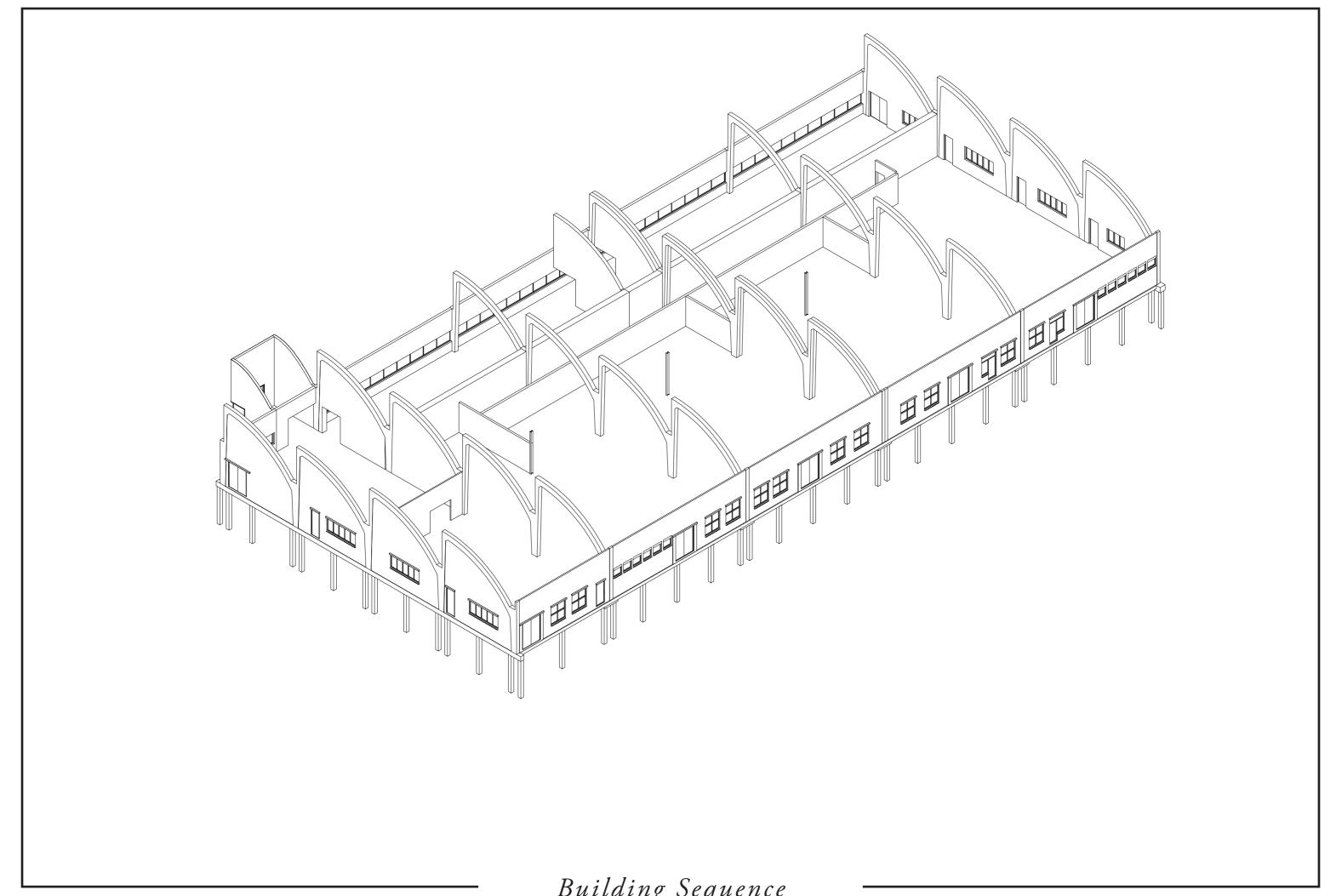


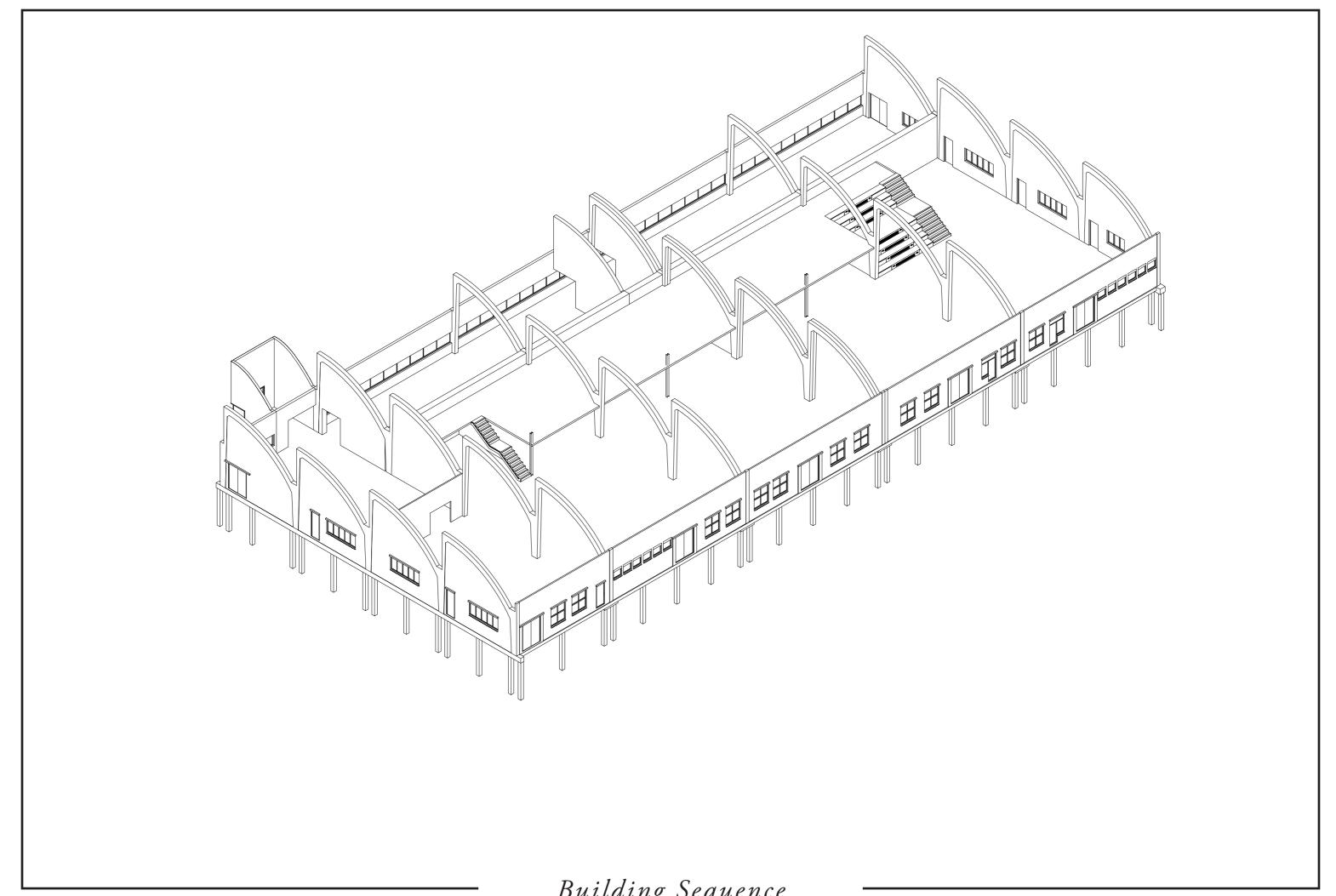


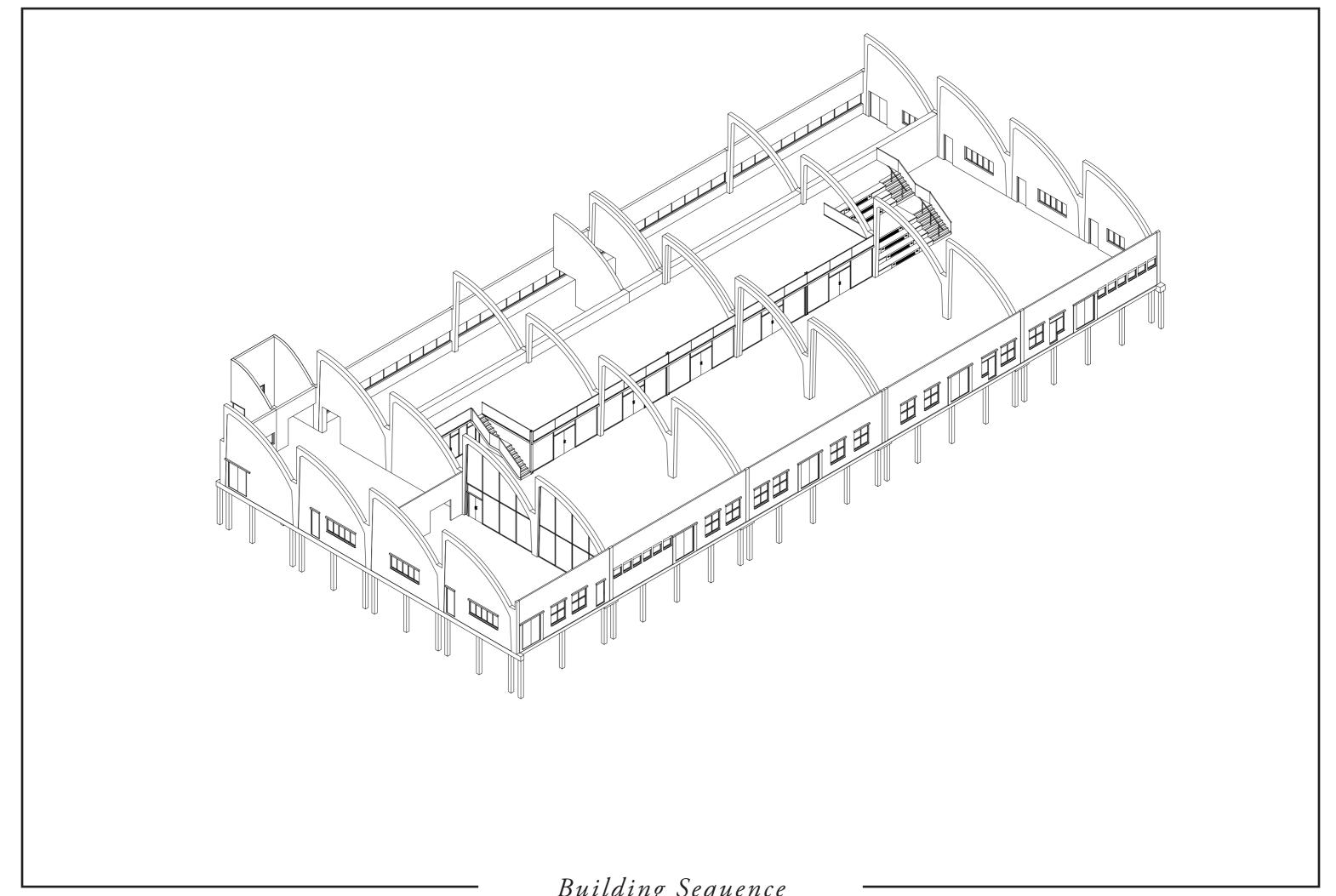


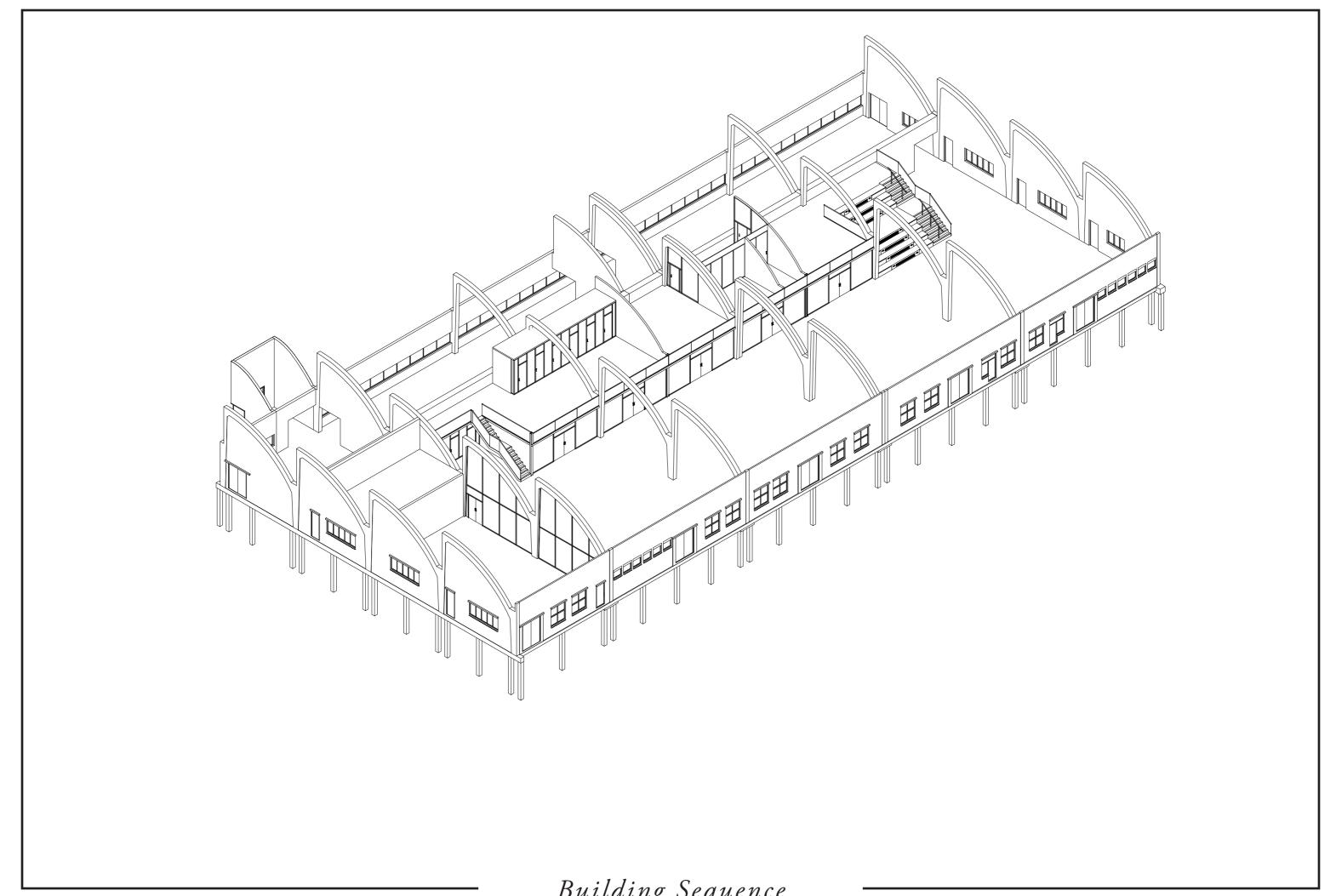


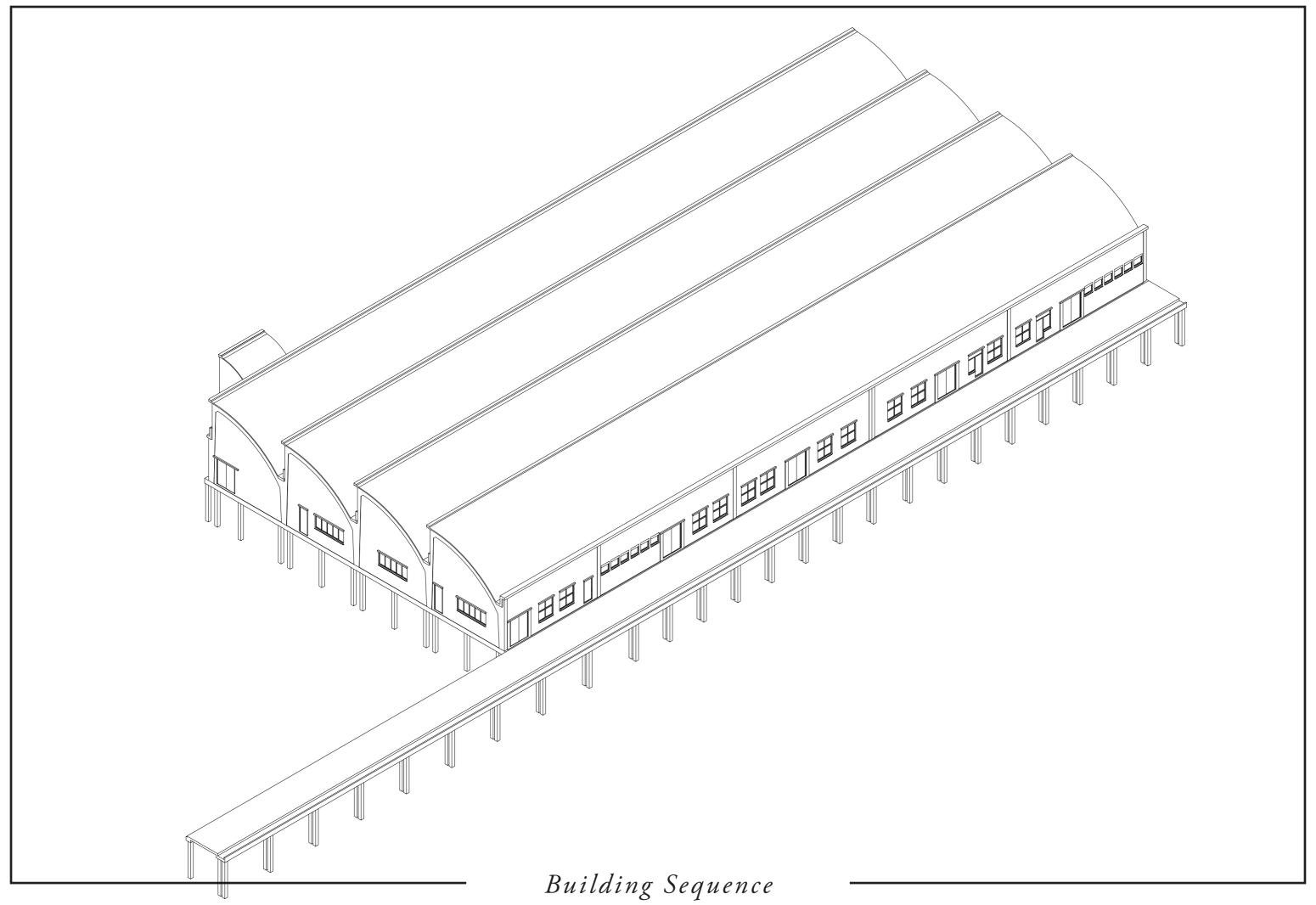


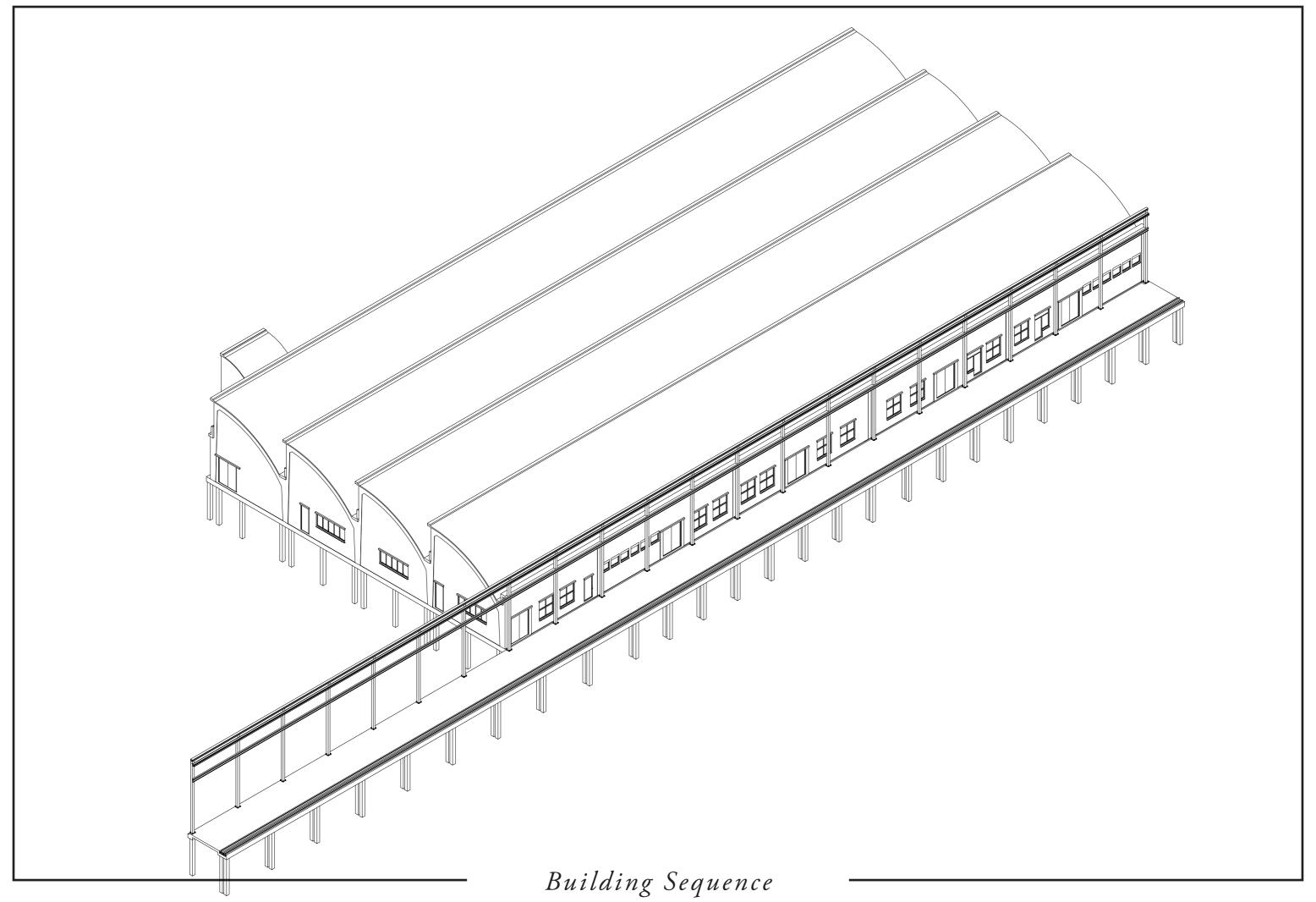


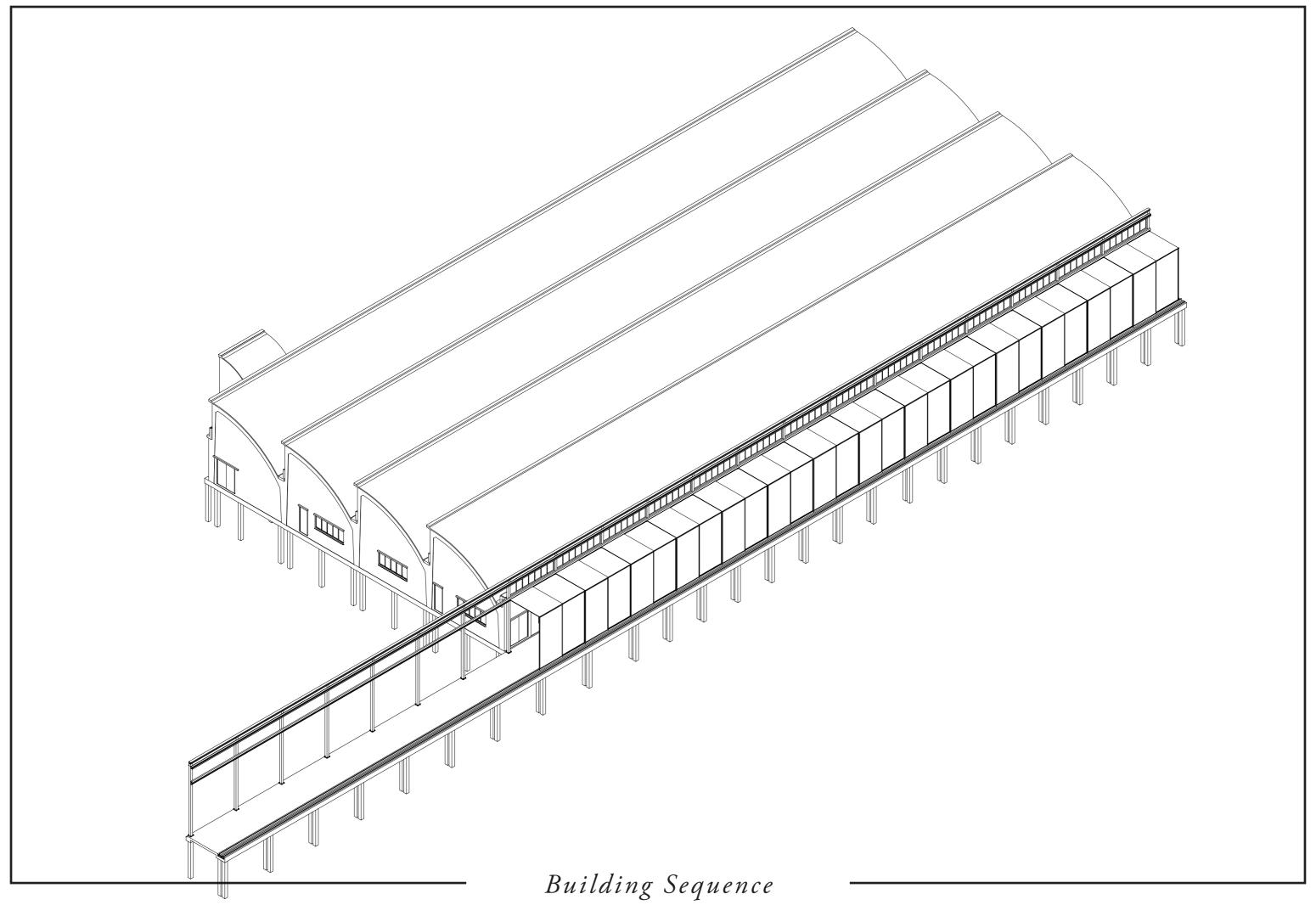


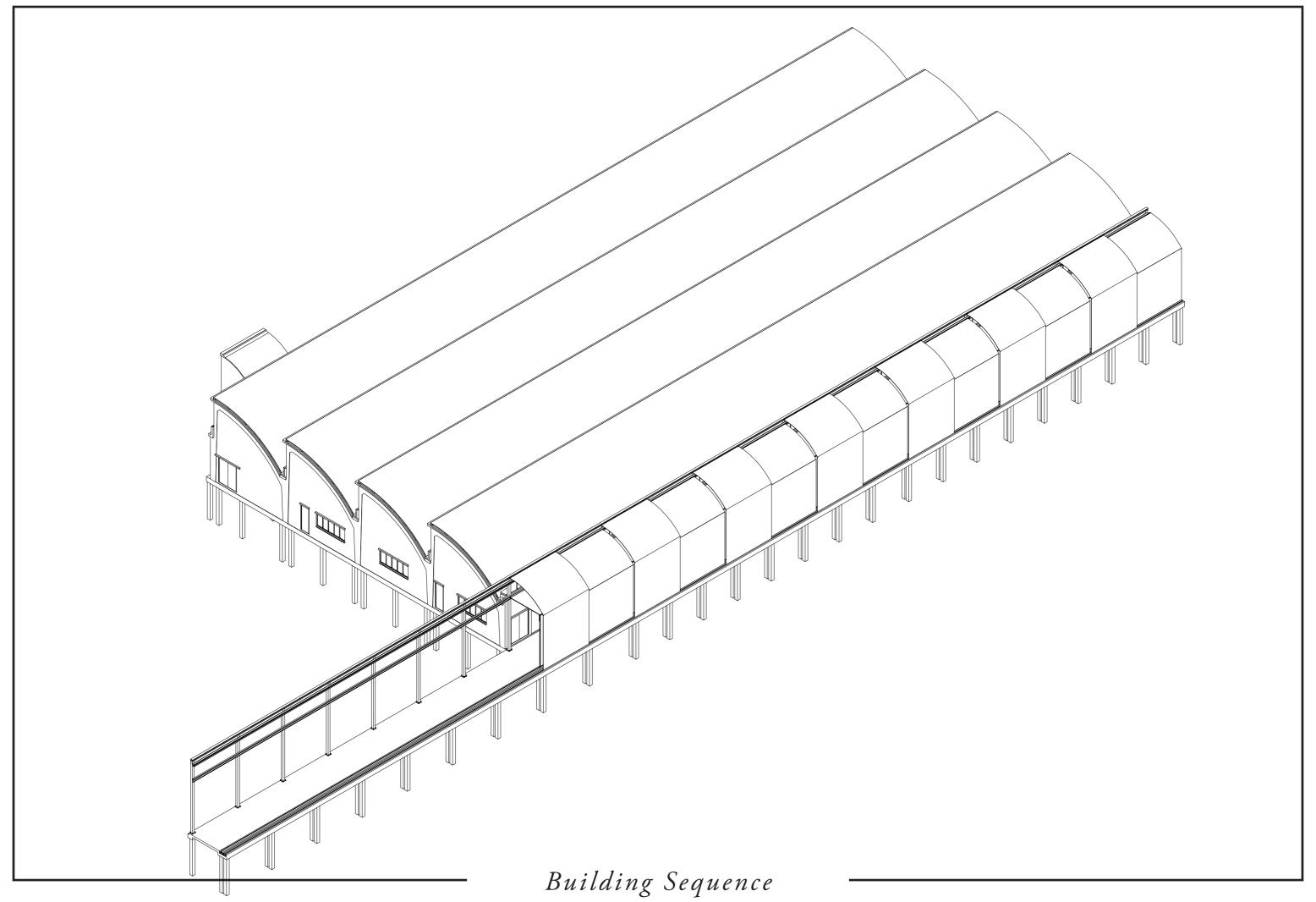


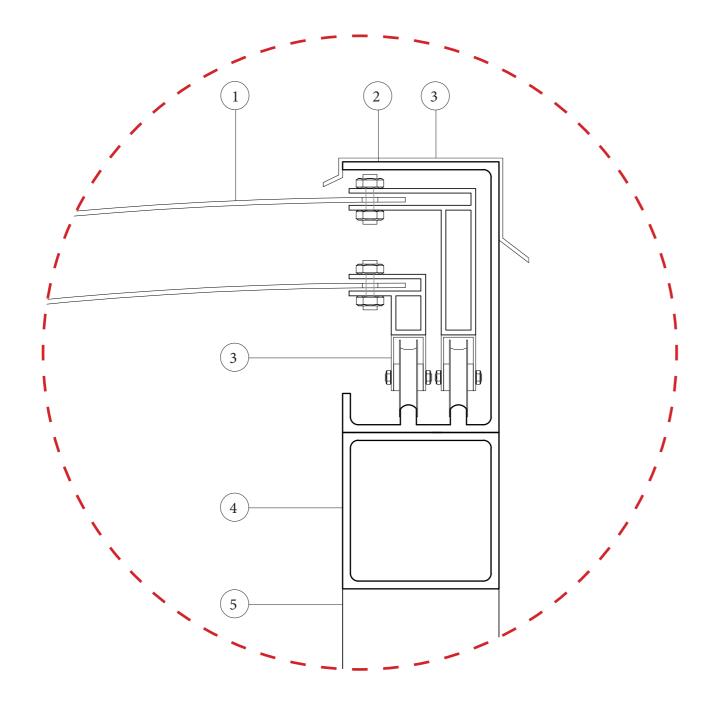






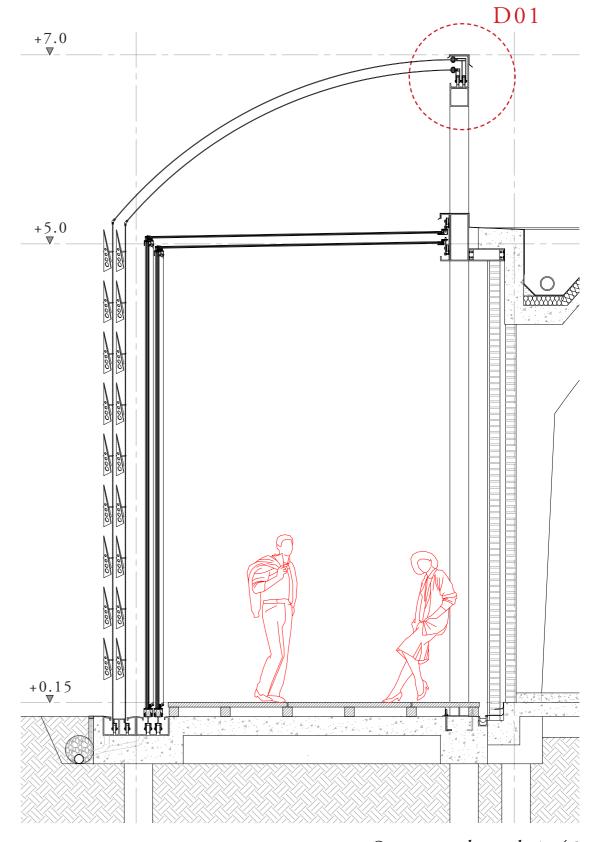




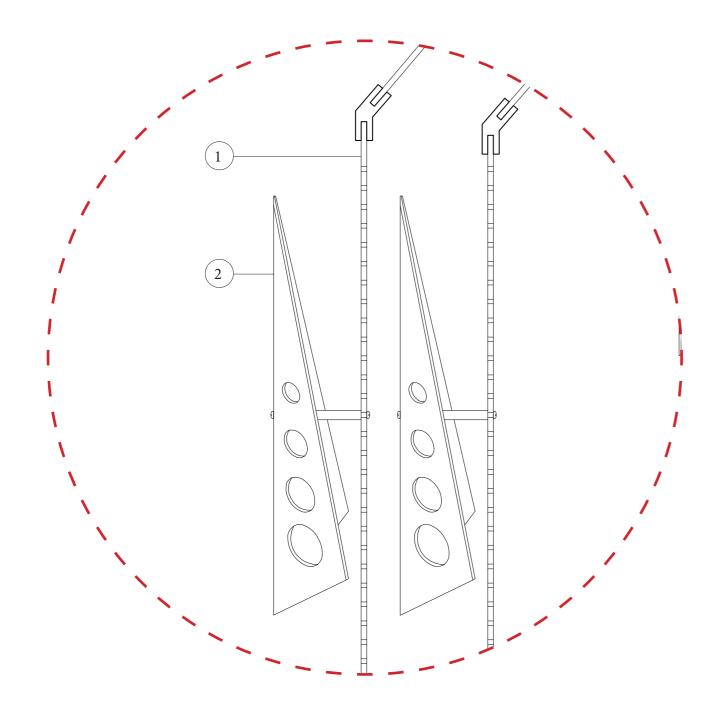


D01 1:5

- 1.5mm perforated steel panel
- 2. Metal flashing
- 3. Aluminum bracket on sliding track
- 4. 200x200mm Rectangular hollow steel beam
- 5. 200x200mm Rectangular hollow steel column

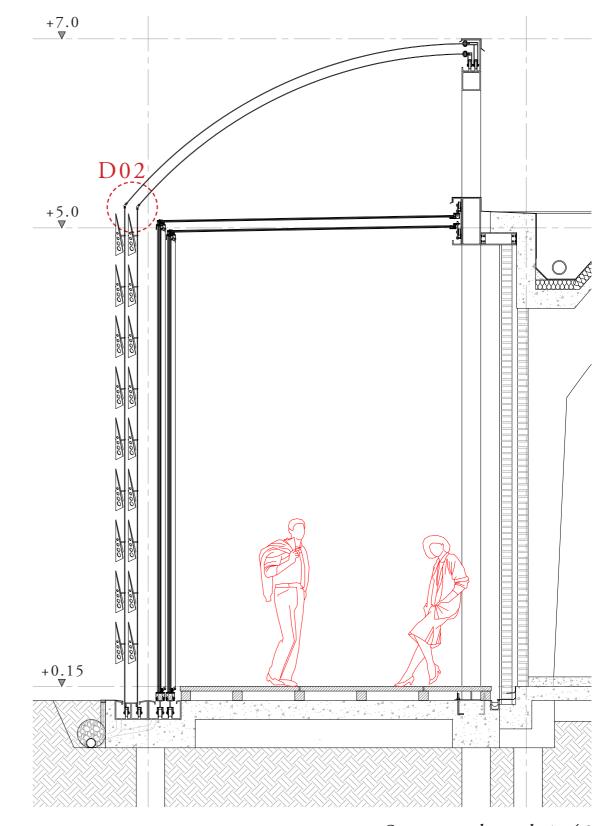


Section detail 1:40

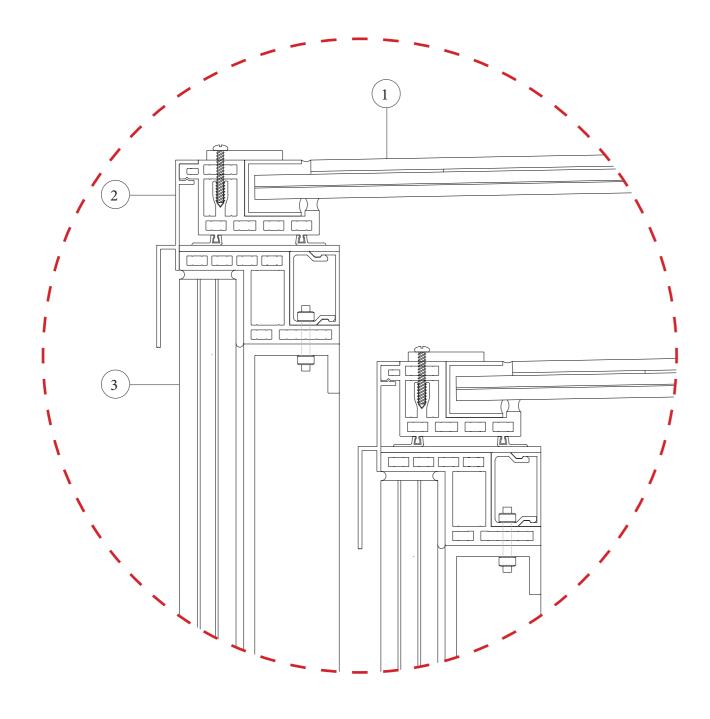


D02 1:5

- 1.5mm perforated steel panel
- 2. Aluminum wind pivot screwed to the holes of the perforated steel panel

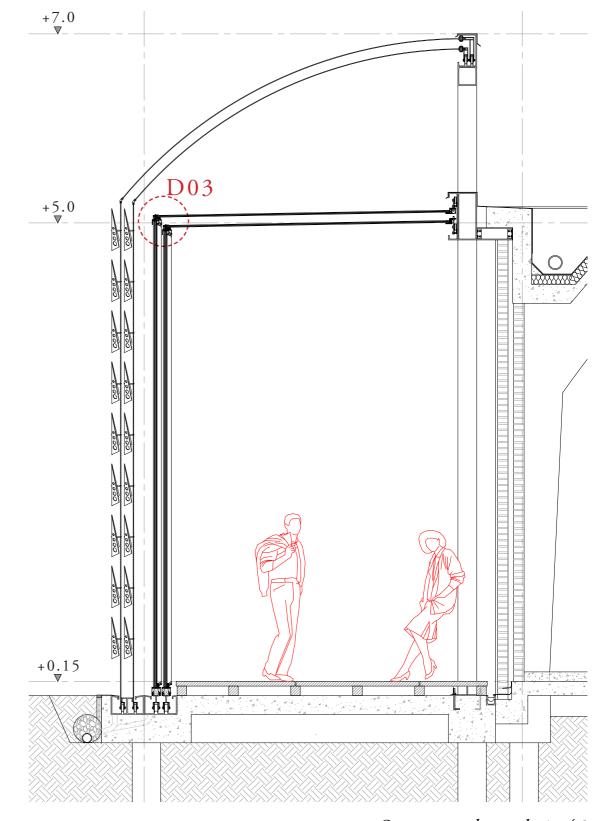


Section detail 1:40

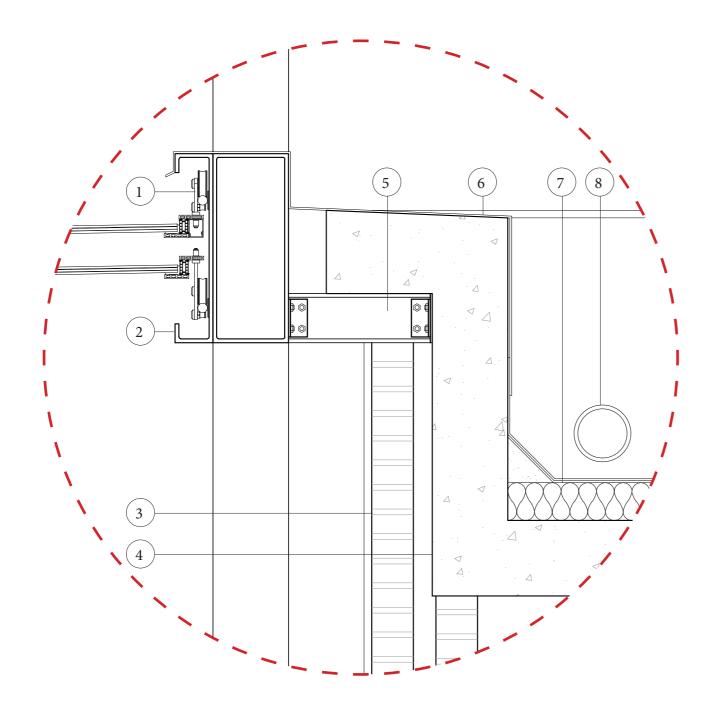


D03 1:2

- 1. Laminated glass
 (from top: 6mm low iron tempered glass, 1.5mm photovoltaic cell, 6mm low iron tempered glass, 0.76mm PVB interlayer, 6mm low iron tempered glass)
- 2. Metal flashing
- 3. Structural laminated glass

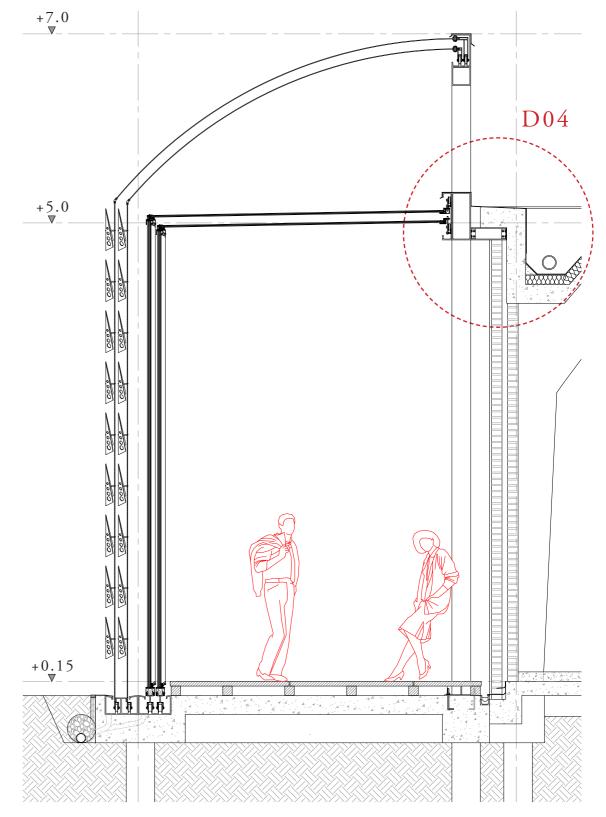


Section detail 1:40

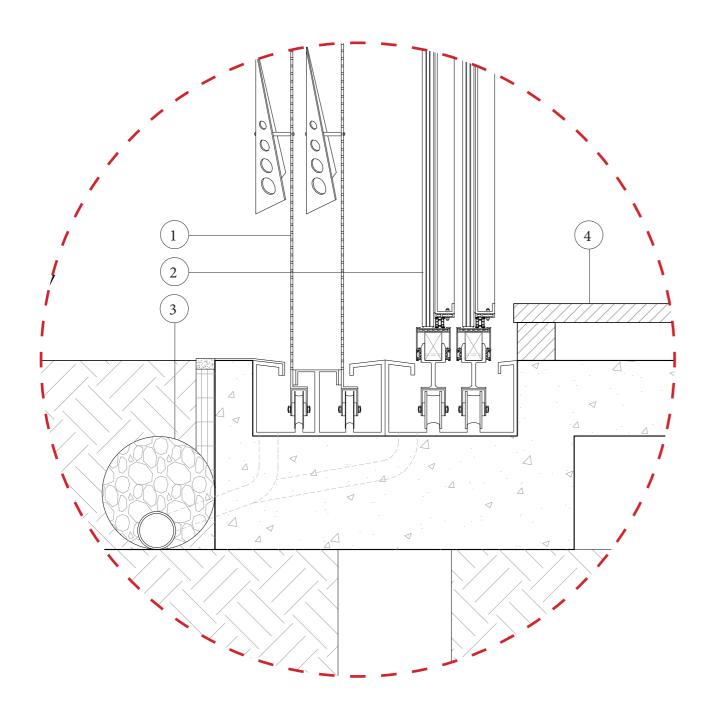


D04 1:10

- 1. Aluminum bracket screwed to wheels on sliding track
- 2. Metal C-channel welded to 200x500mm rectangular hollow steel beam
- 3. Existing double layered brick wall
- 4. Existing concrete roof
- 5. 130mm depth I beam
- 6. Metal flashing
- 7. 100mm thk. insulation with waterproofing layer on top
- 8. 150mm dia. drainage pipe

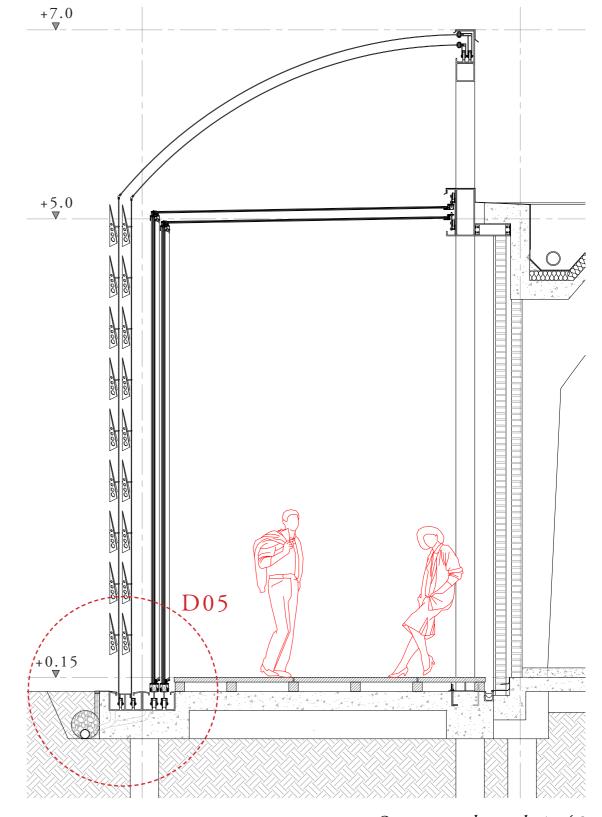


Section detail 1:40

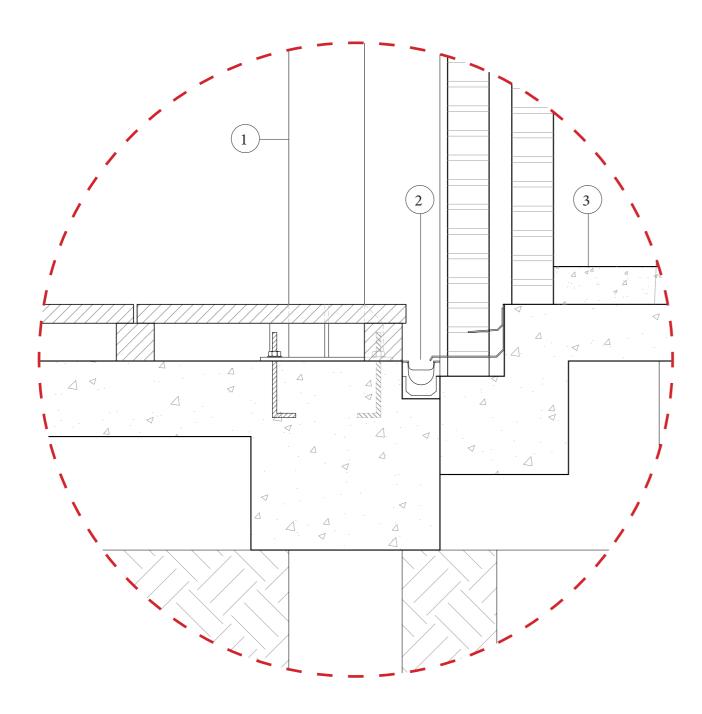


D05 1:10

- 1. Sliding sun shading panel
- 2. Sliding glass panel
- 3. Sub-grade drainage system
- 4. Wooden deck on new concrete foundation

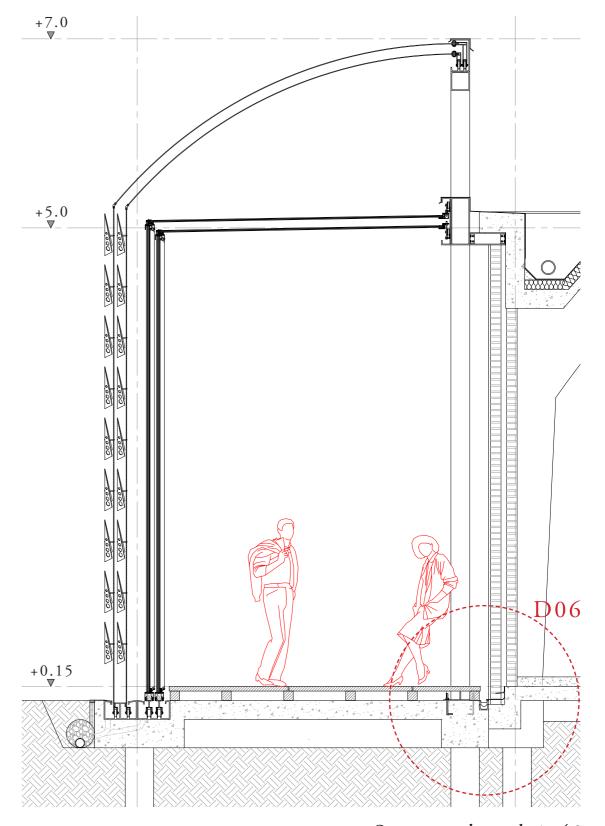


Section detail 1:40



D06 1:10

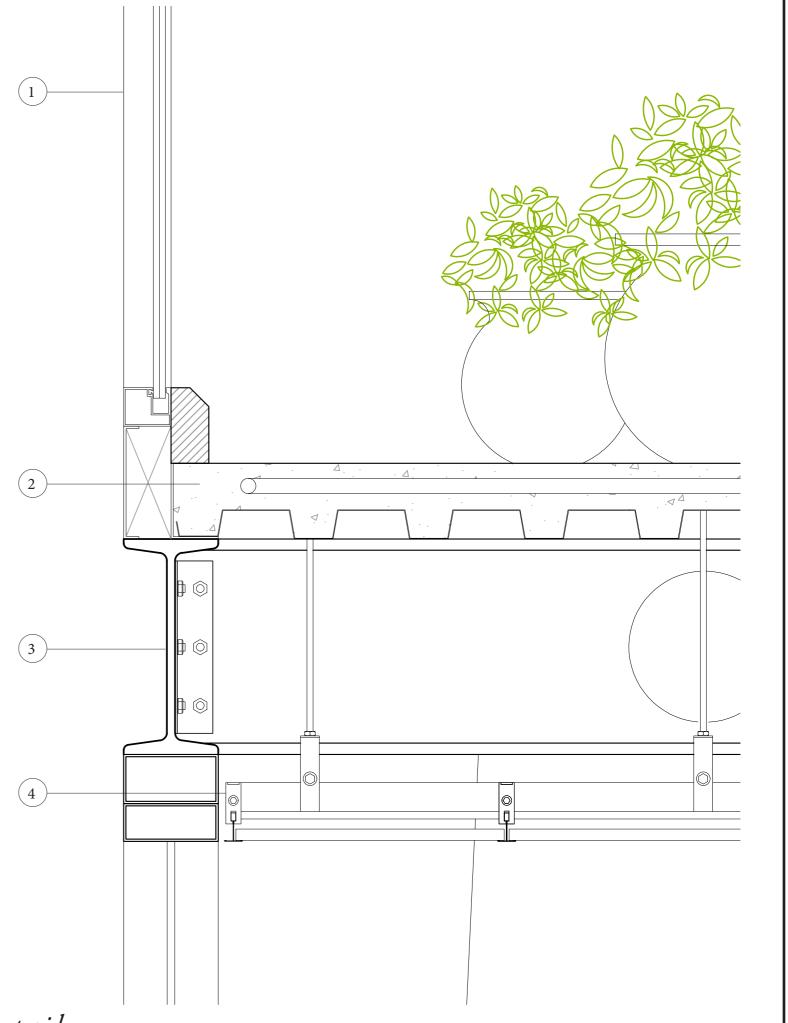
- 1. 200x200mm rectangular hollow steel column with steel stiffeners at the bottom
- 2. Gutter
- 3. 100mm concrete floor with floor heating and cooling system



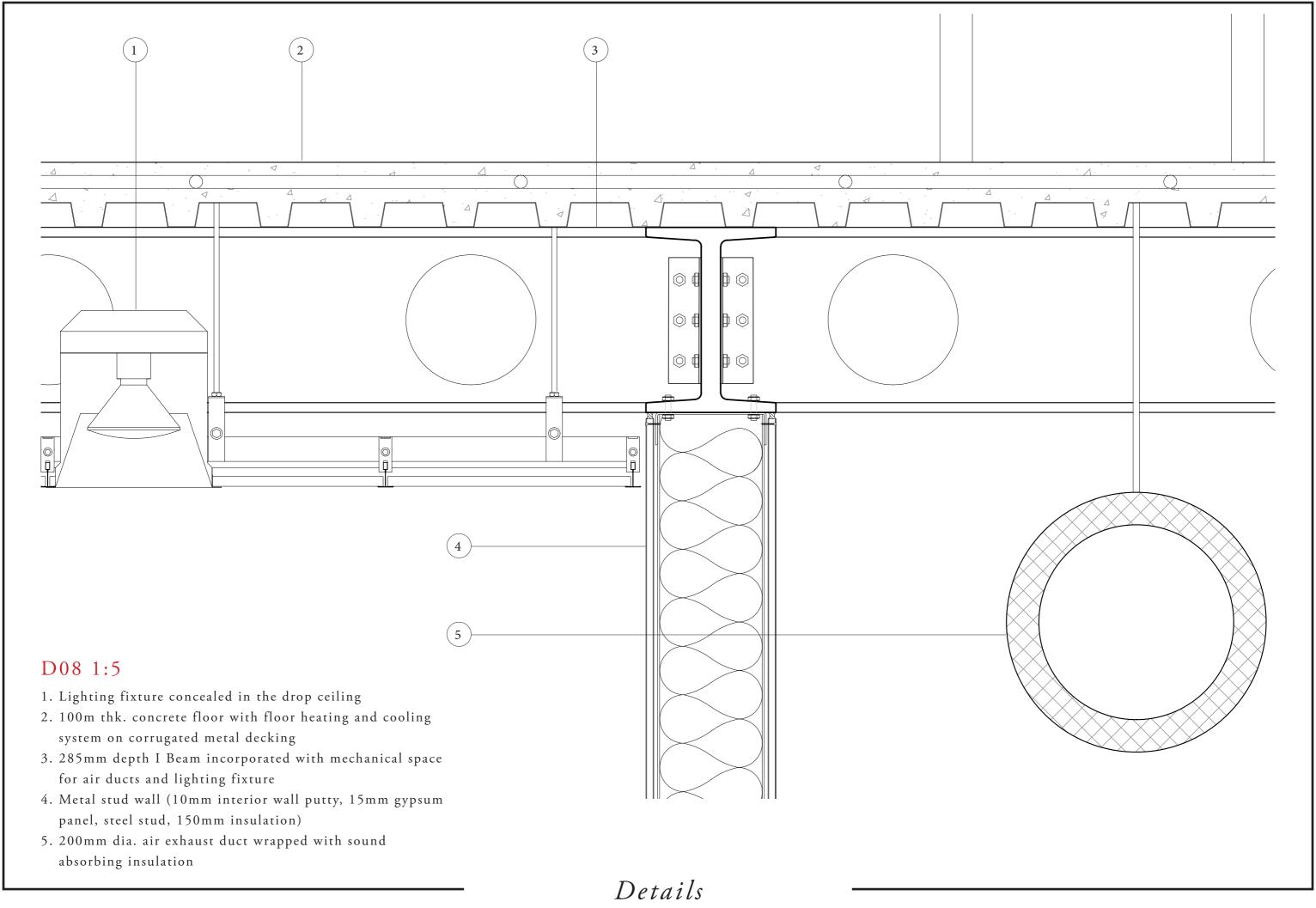
Section detail 1:40

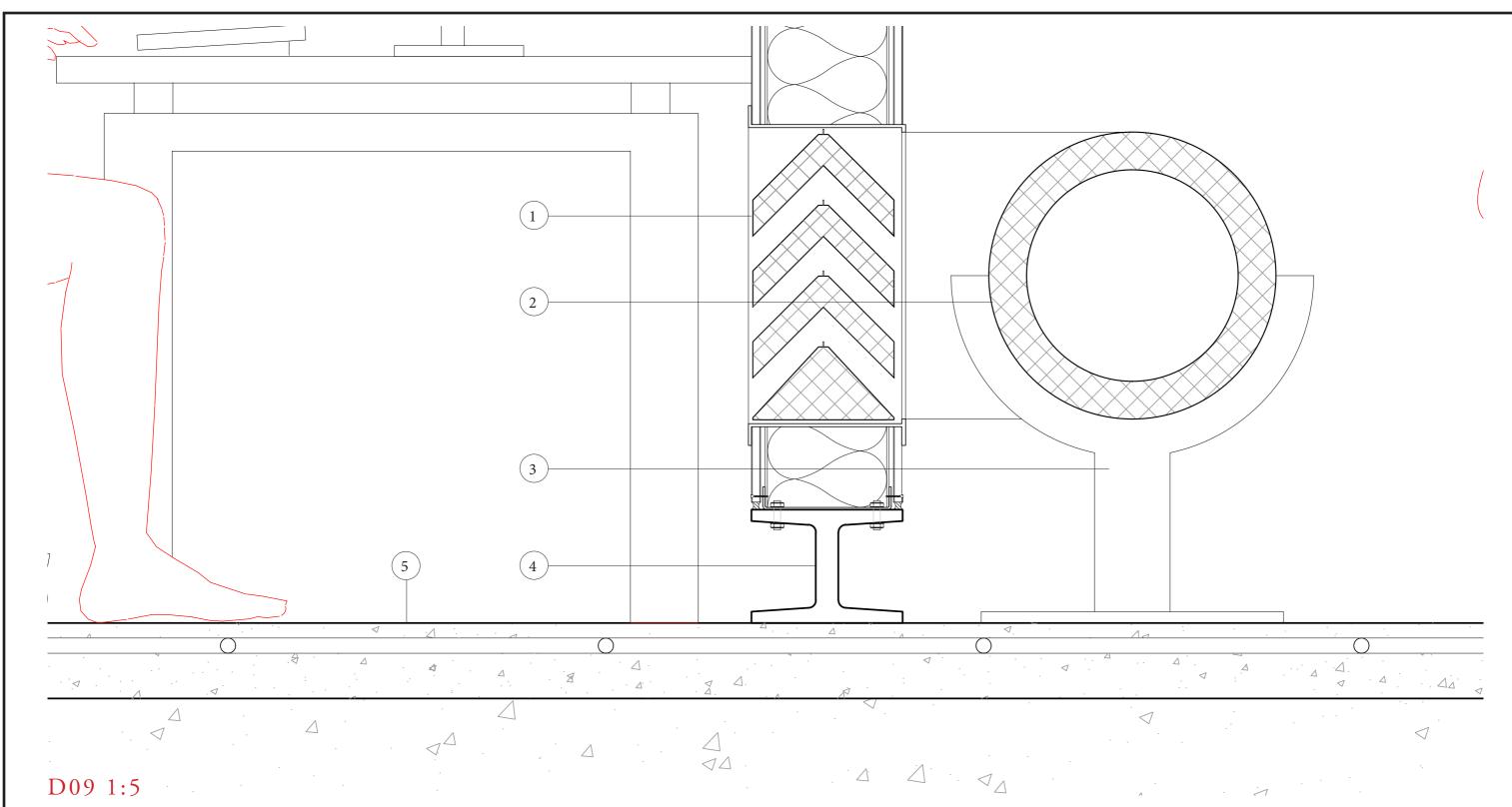
D07 1:5

- 1. Aluminum framing window strip
- 2. 100m thk. concrete floor with floor heating and cooling system on corrugated metal decking
- 3. 285mm depth I Beam incorporated with mechanical space for air ducts and lighting fixture
- 4. Hanging drop ceiling with sound absorbing panels

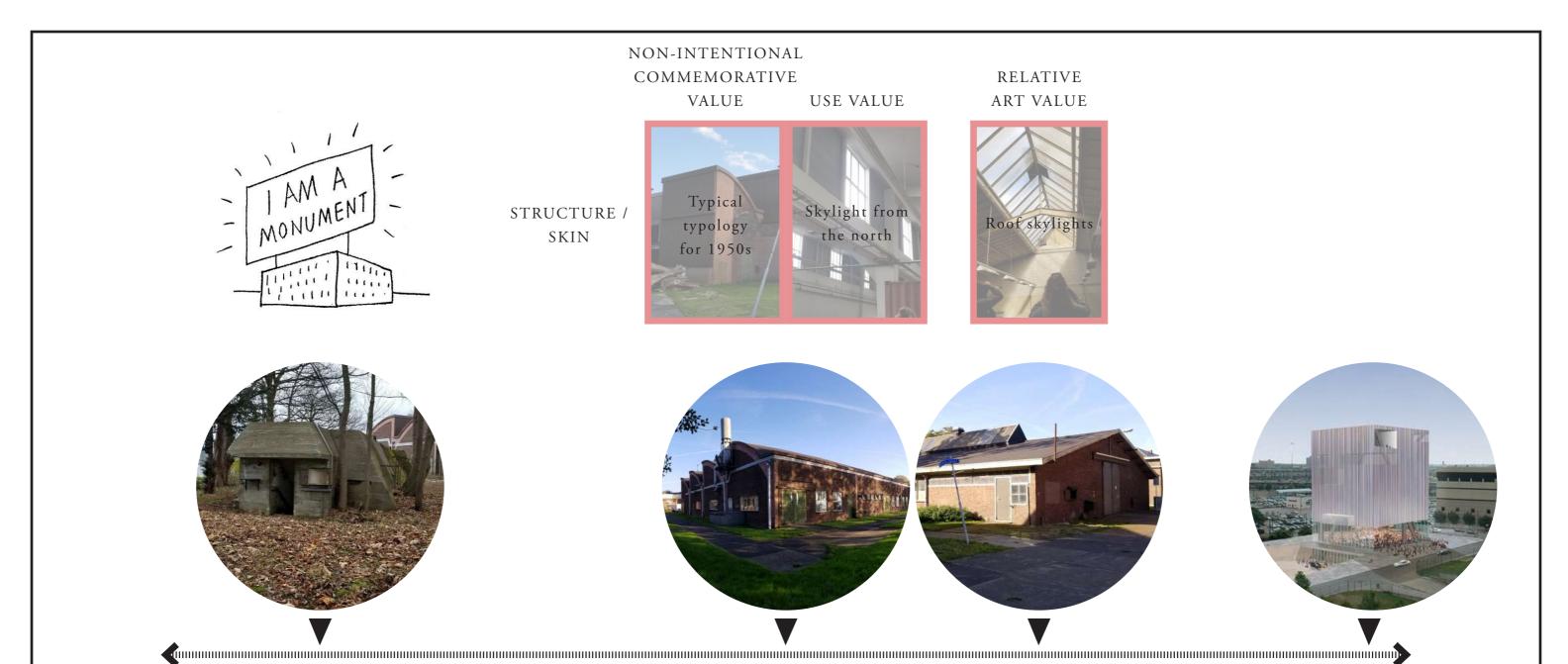


Details





- 1. Air inlet grille with sound insulation
- 2. 200mm dia. air supply duct wrapped with sound absorbing insulation
- 3. Metal support rack for the pipe
- 4. 150x200mm steel I beam
- 5. 100m thk. concrete floor with floor heating and cooling system casted on existing concrete floor



Preservation

Repair

Intervention

Transformation / Reinterpretation