

P5 Presentation

Interwoven realities as catalyst for integration

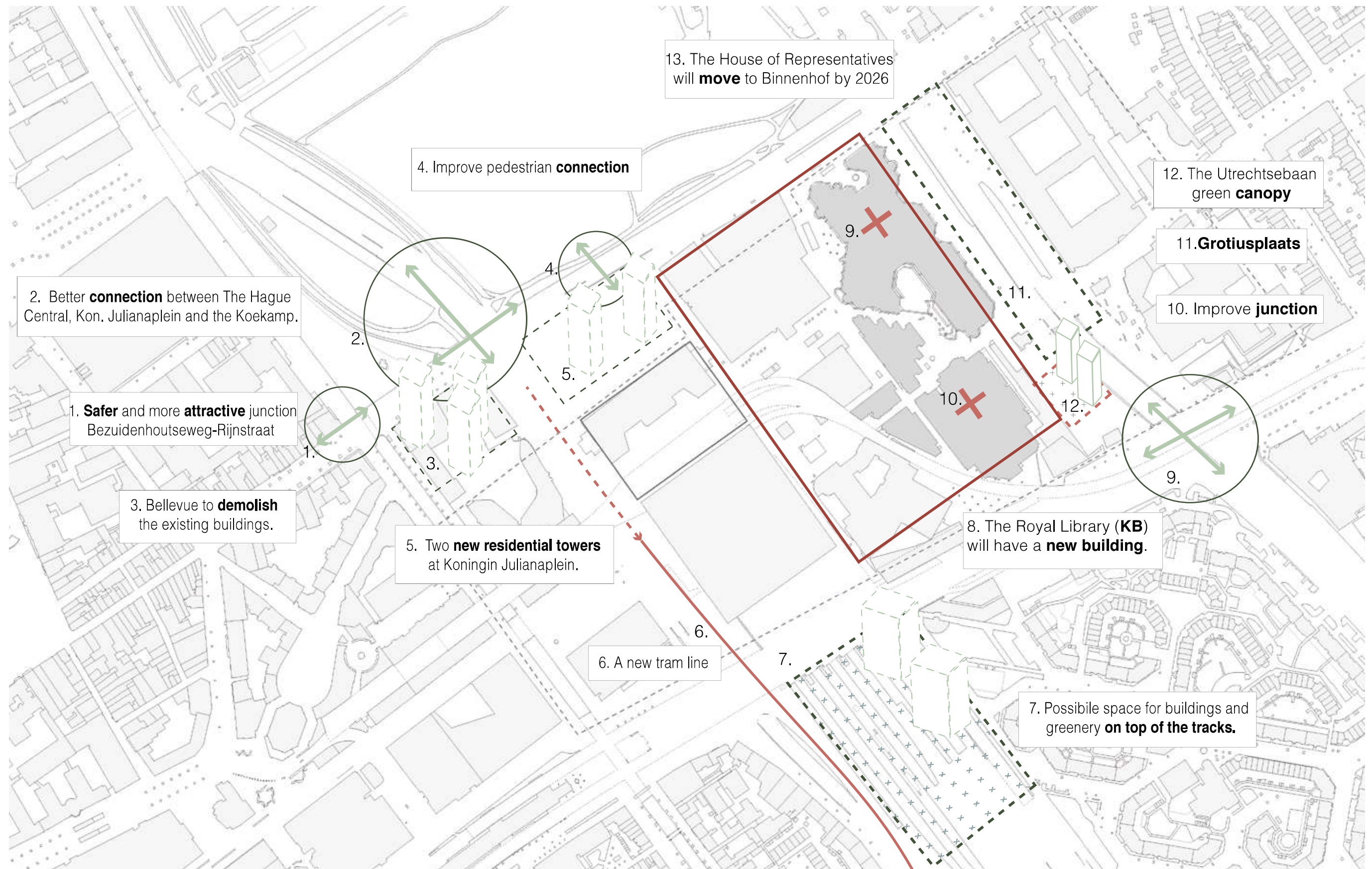
Savvina Megalovasili

5859034

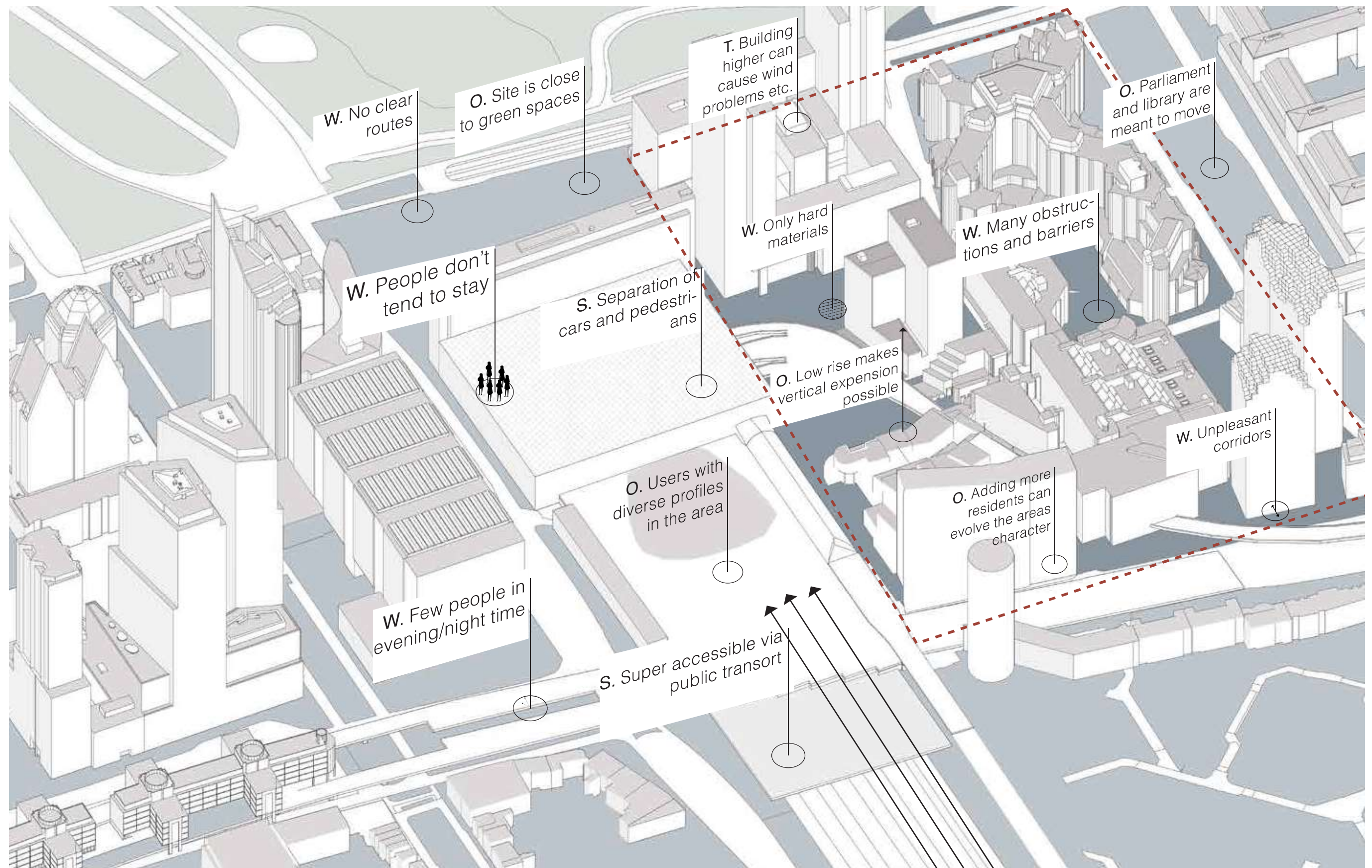
Tutors : Henk Bultstra, Ger Warries, Sien van Dam

Delegate of the Board of Examiners : A.Meijer

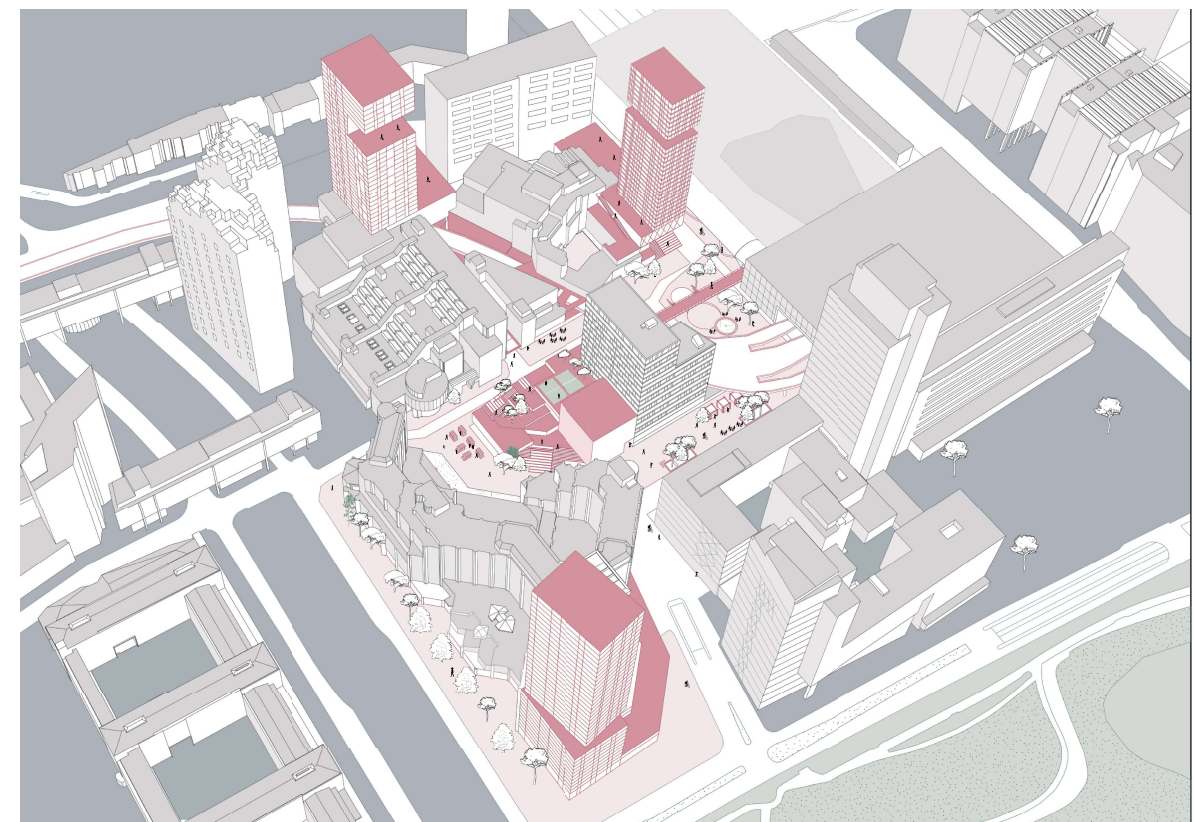
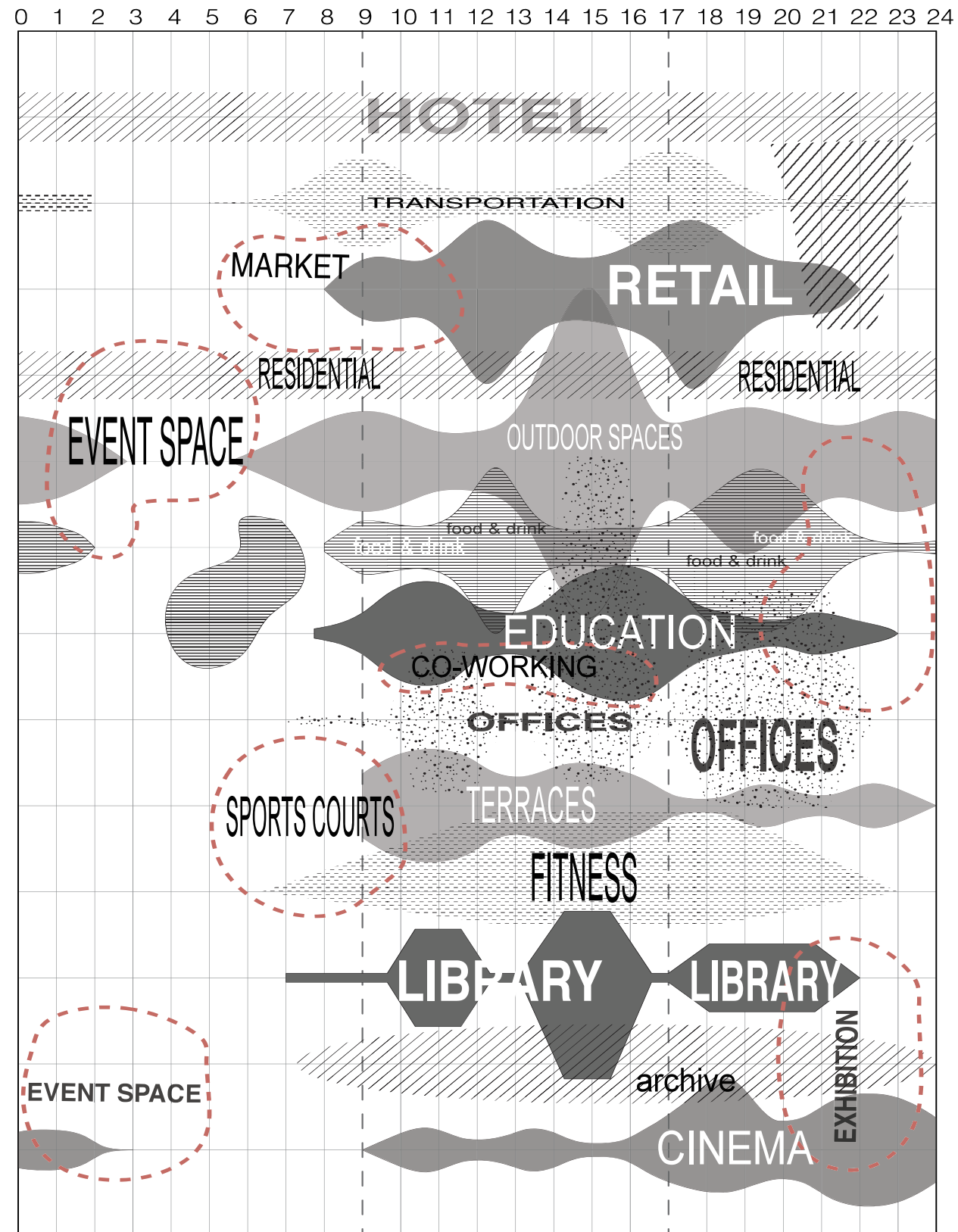
The site



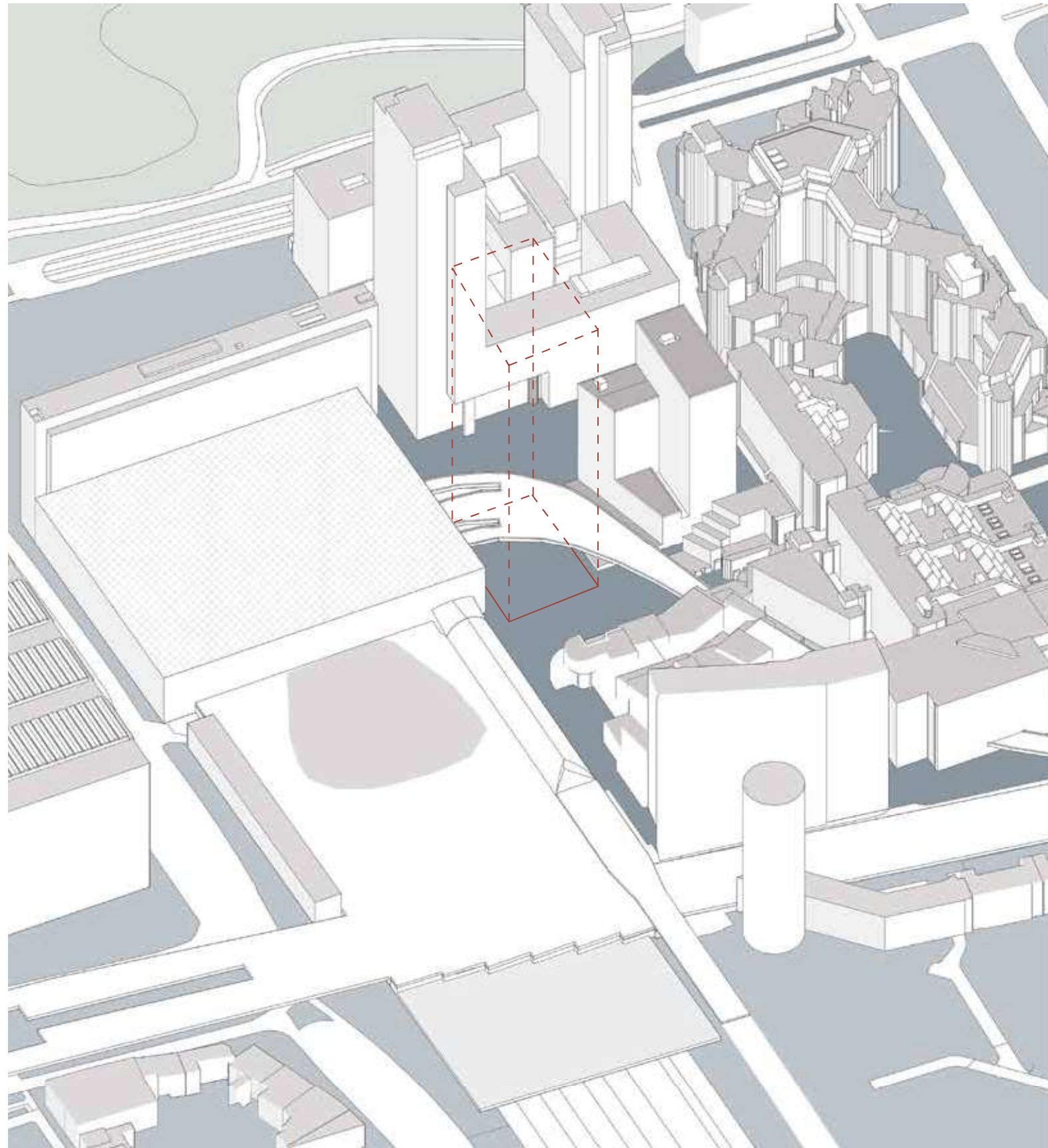
Municipality's future plans for the Central Station area



SWOT Diagram of the area



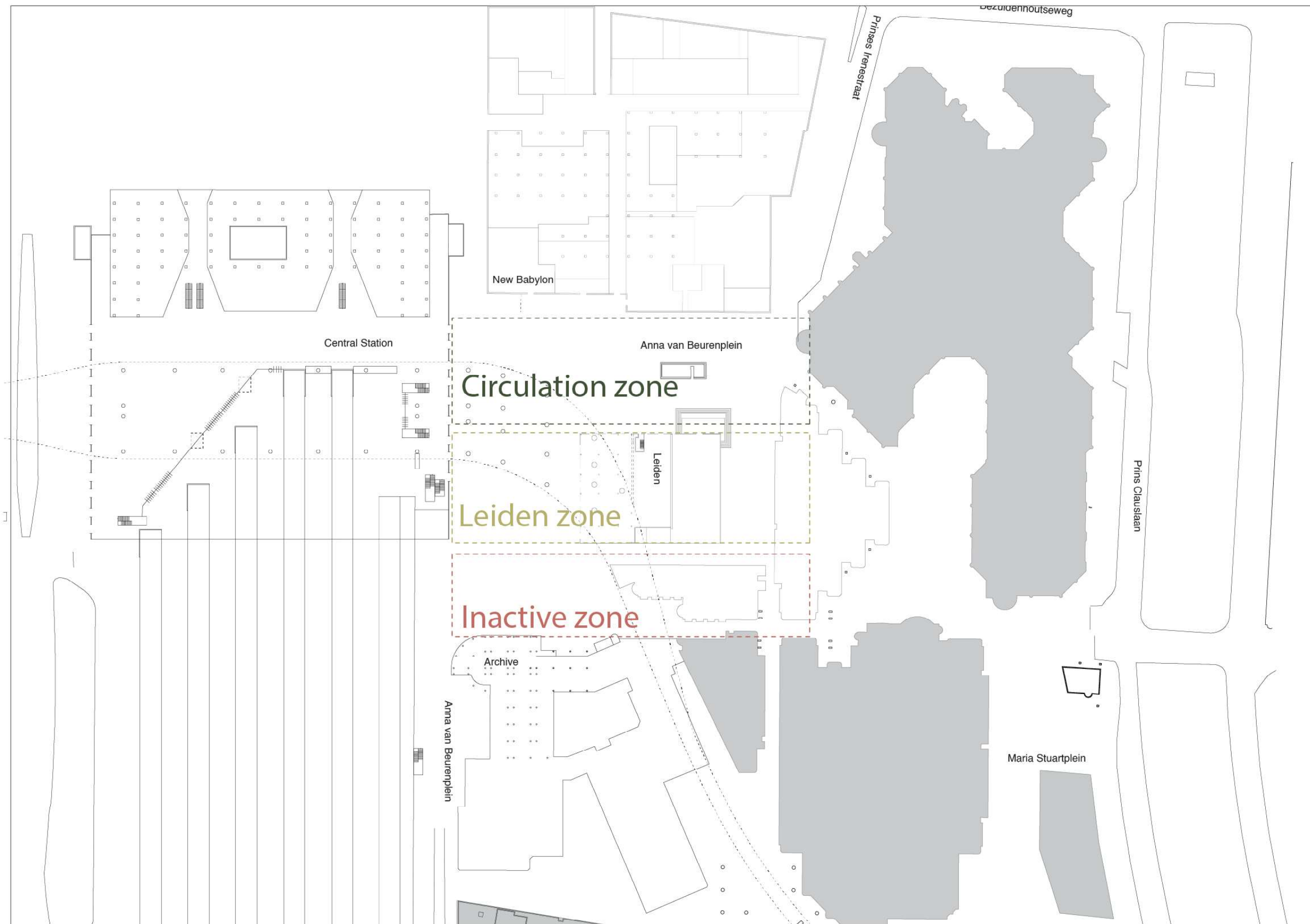
Capacity Plan outcomes



Chosen plot for the campus



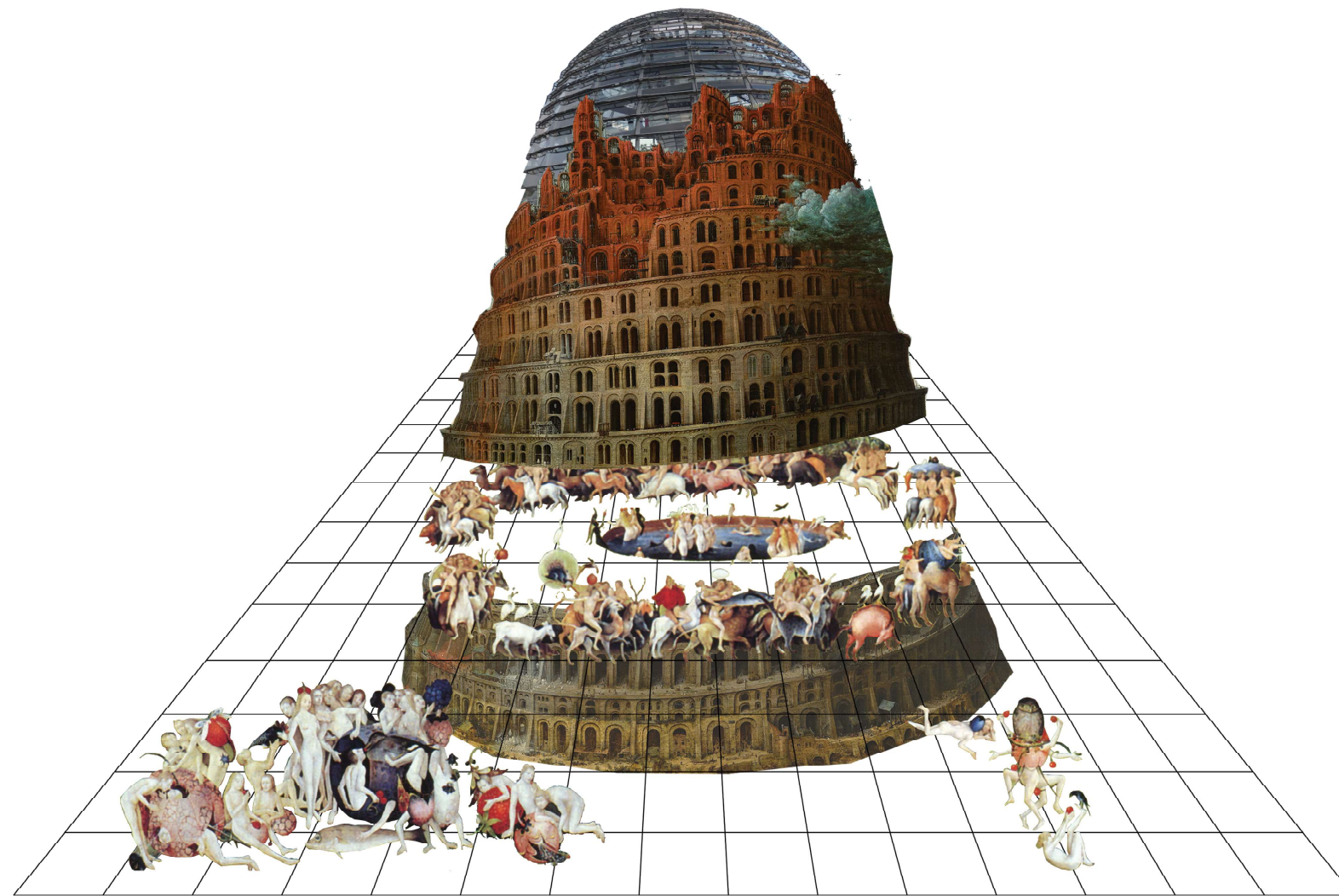
Site analysis



Site analysis

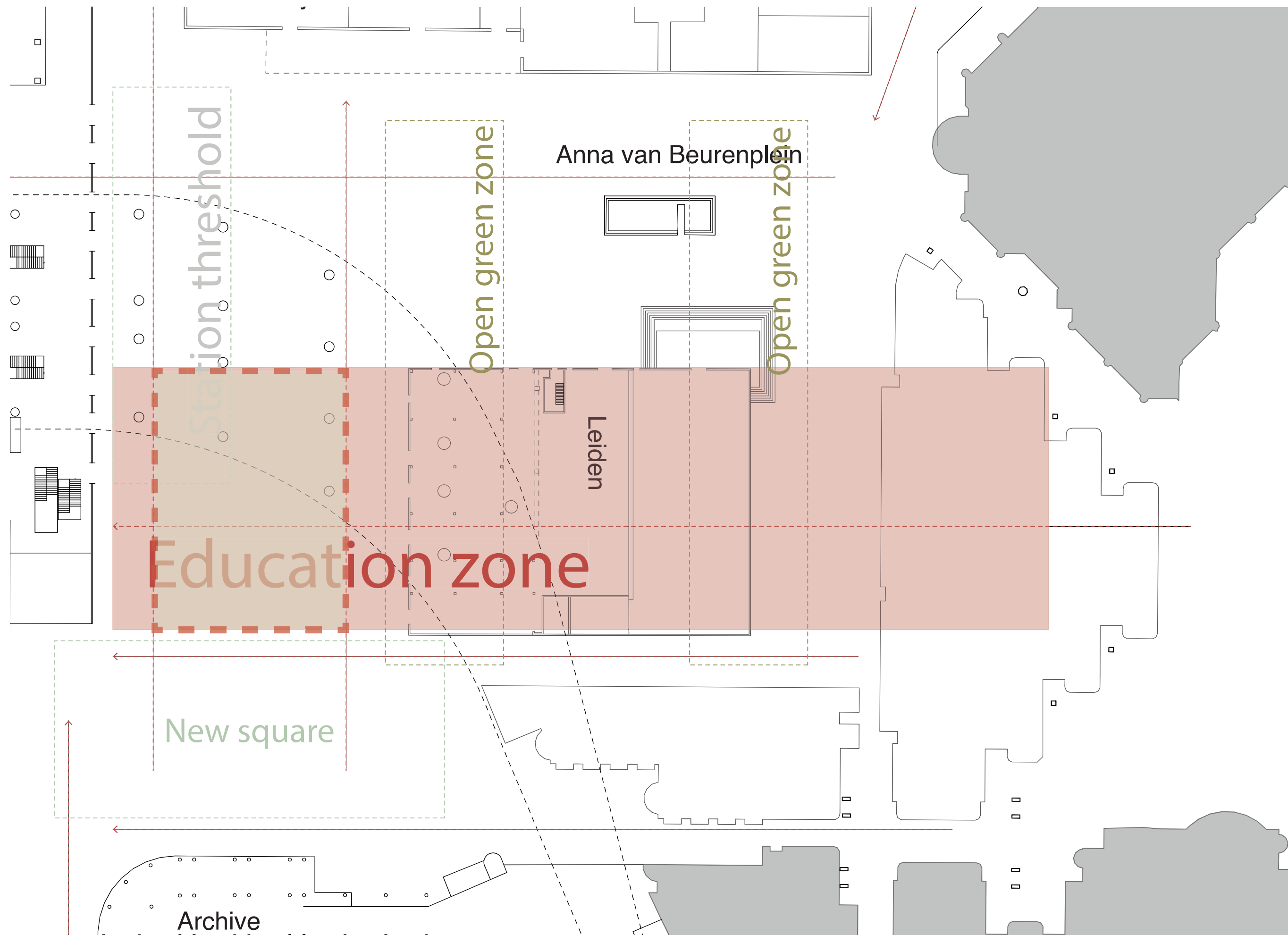


Educational "spine"

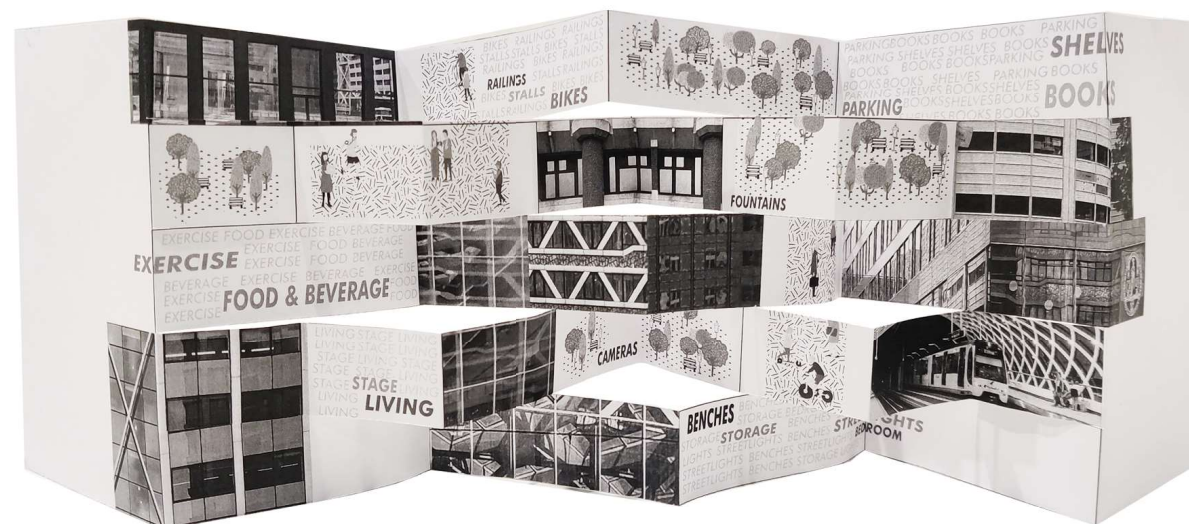
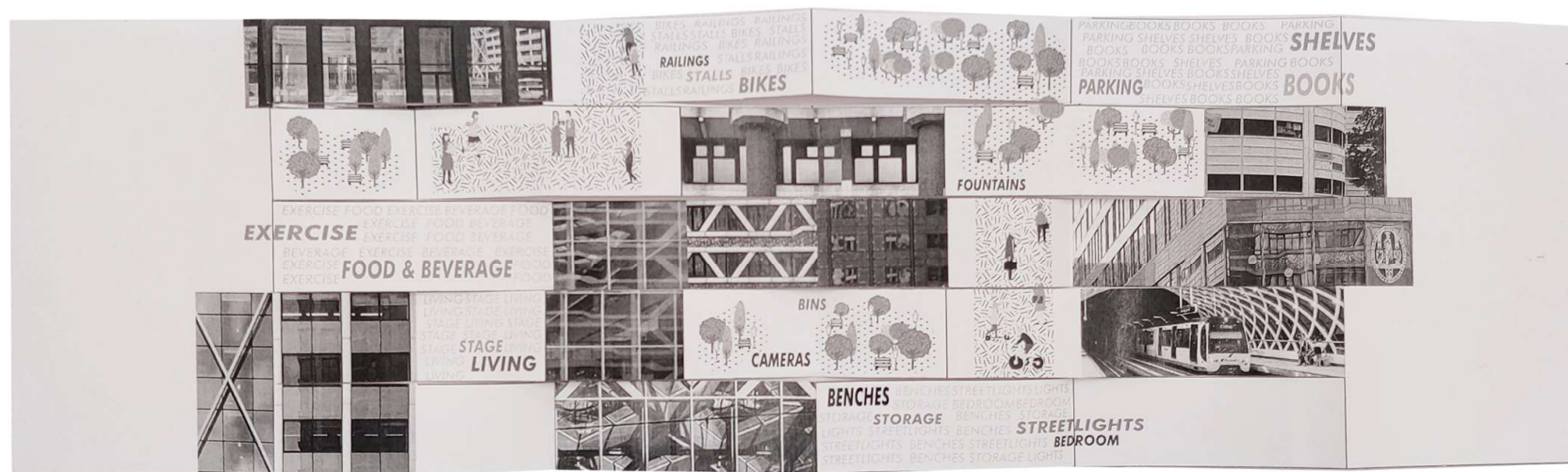


Open campus

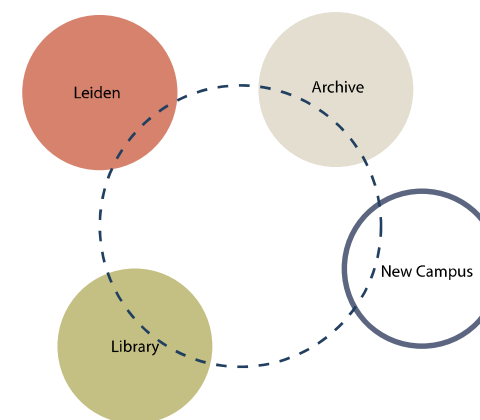
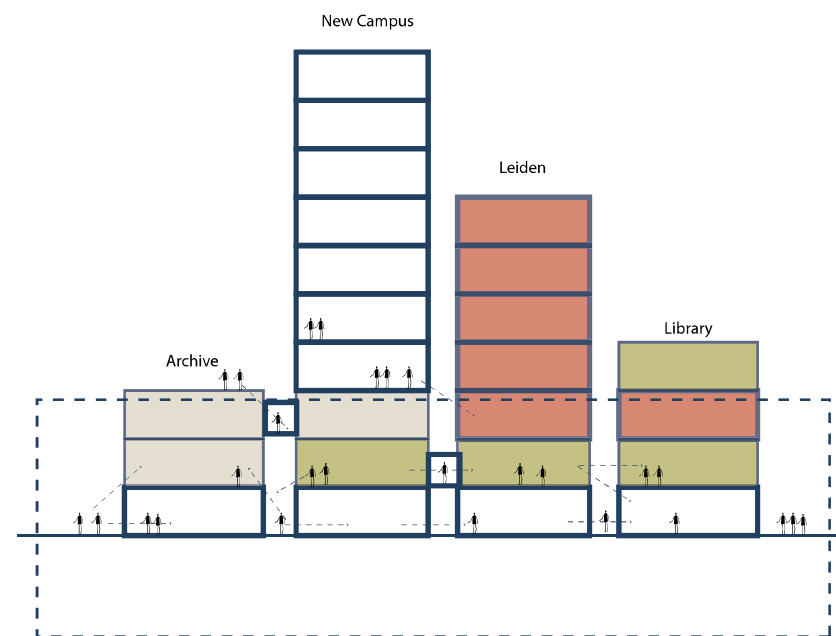
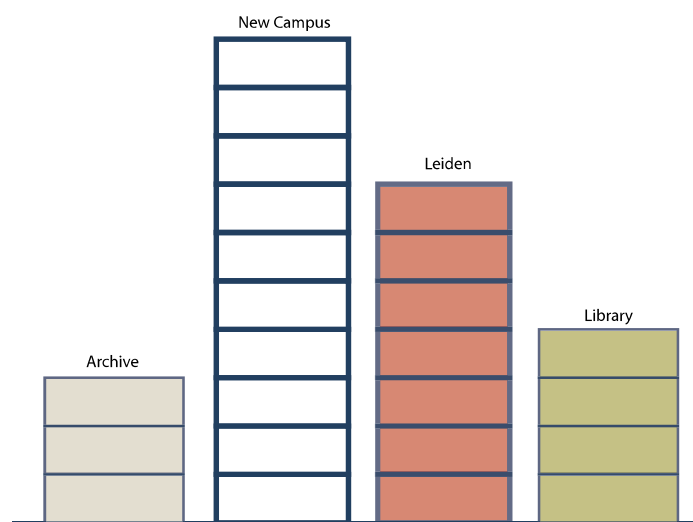
“The idea of an open campus will then foster a stronger relationship with the community, and the new design will become part of the new urban constellation. Knowledge is meant to be **discovered** and **explored** by the visitors of the campus, and the city is meant to be **part of the student experience.**”



Educational "spine"



Threedimensionalize public space

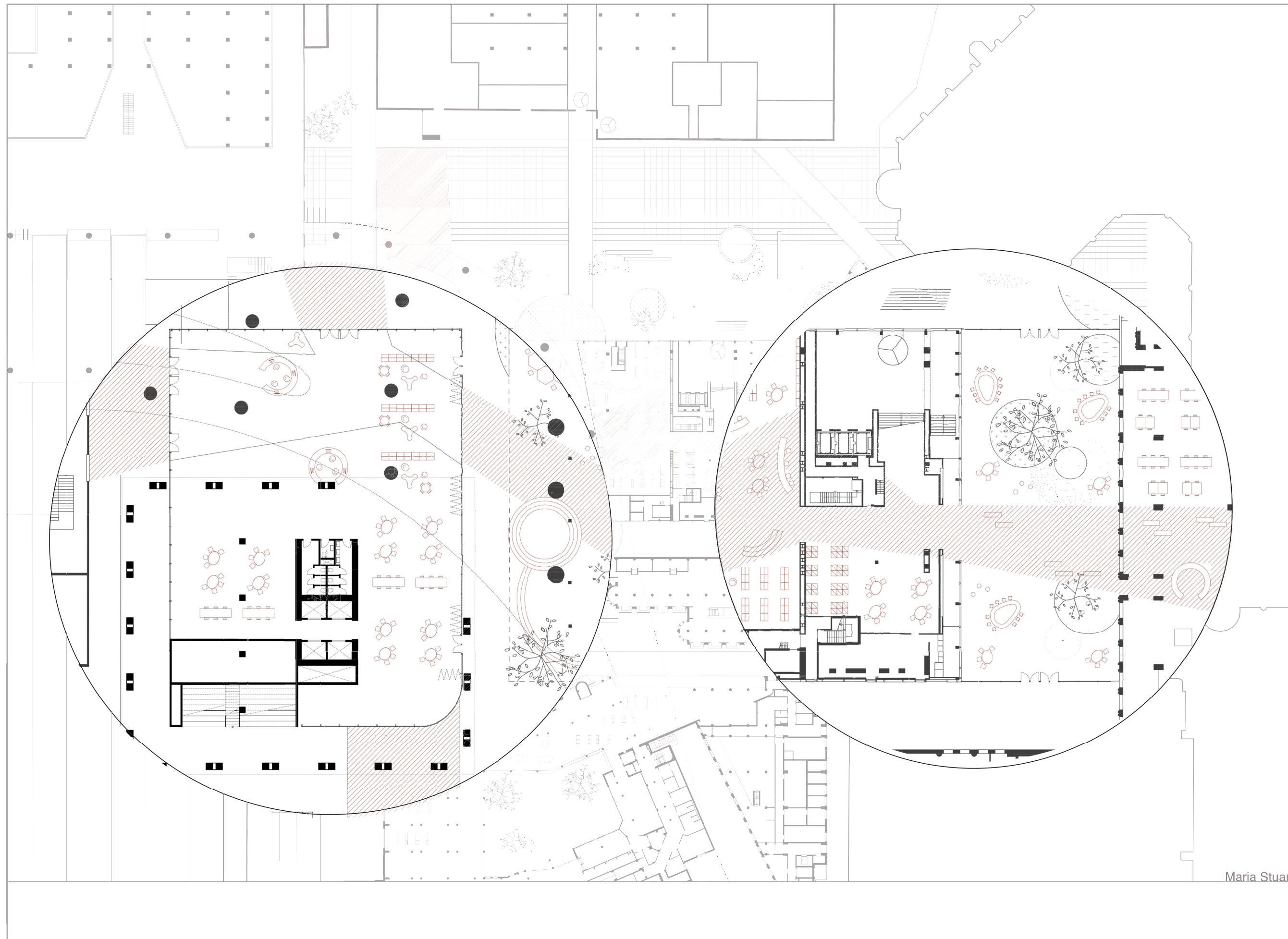


Rethinking the plinth



Maria Stuart

Groundfloor plan



Maria Stuart

Groundfloor plan

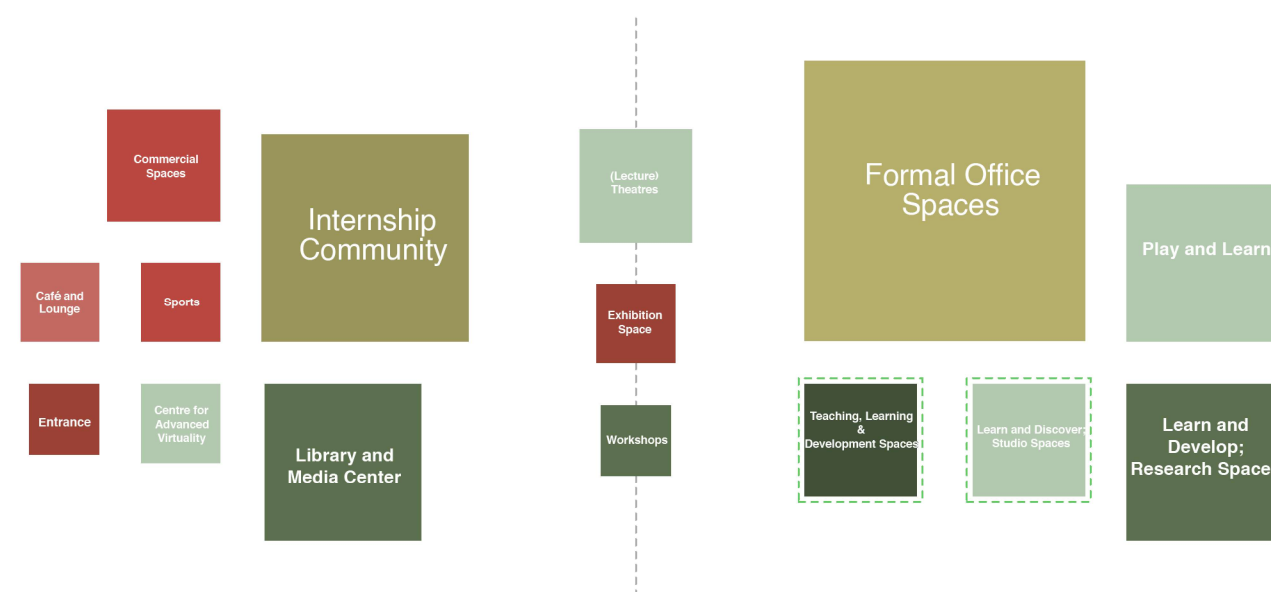
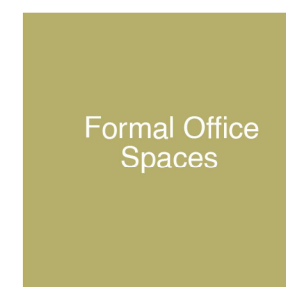
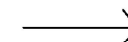
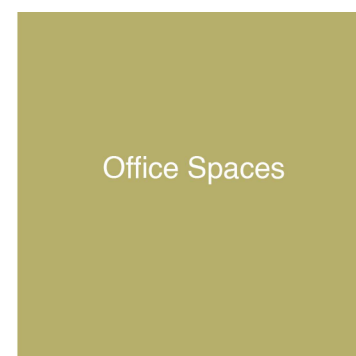
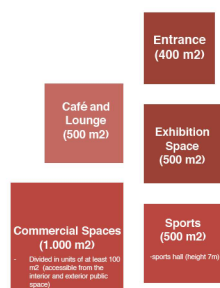
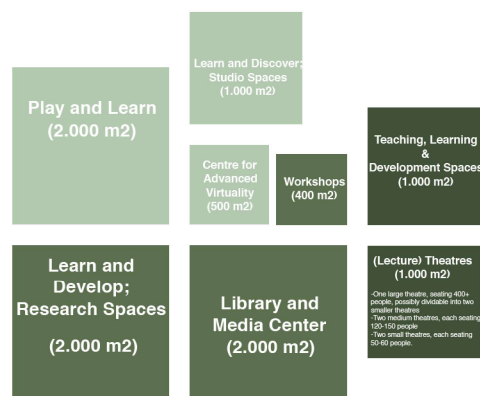
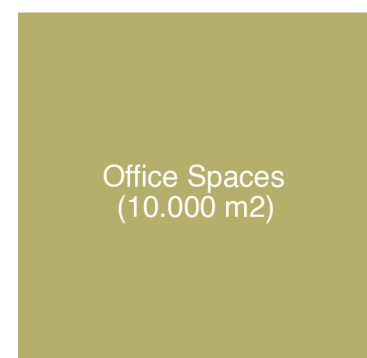
The Building ensemble

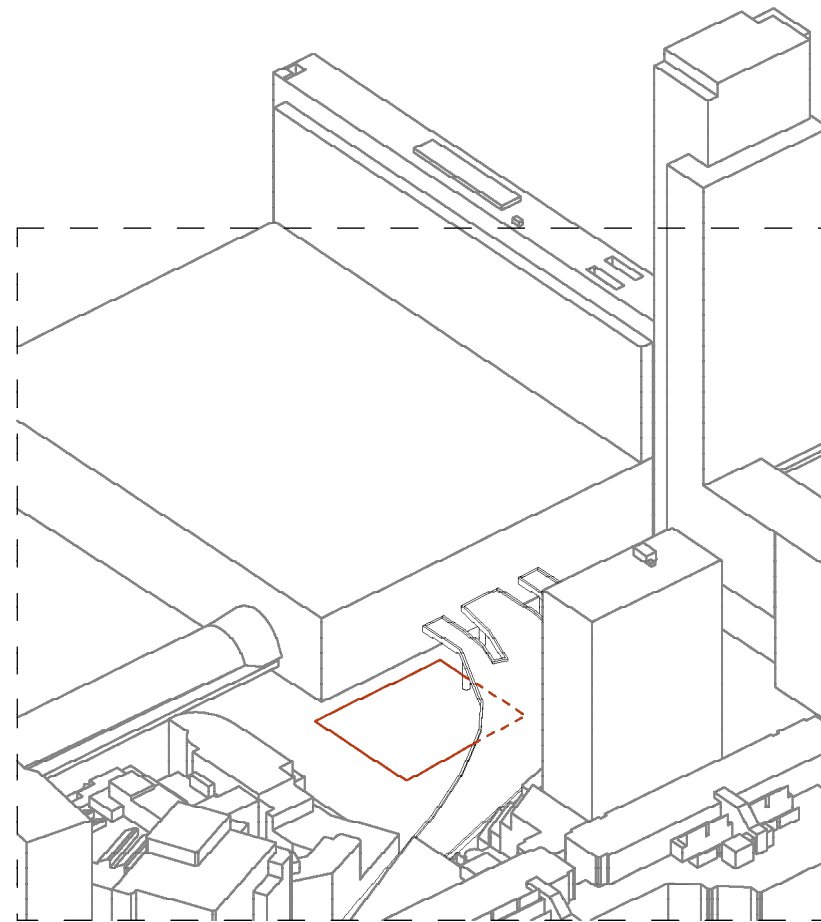
The virtues of the Public Campus:

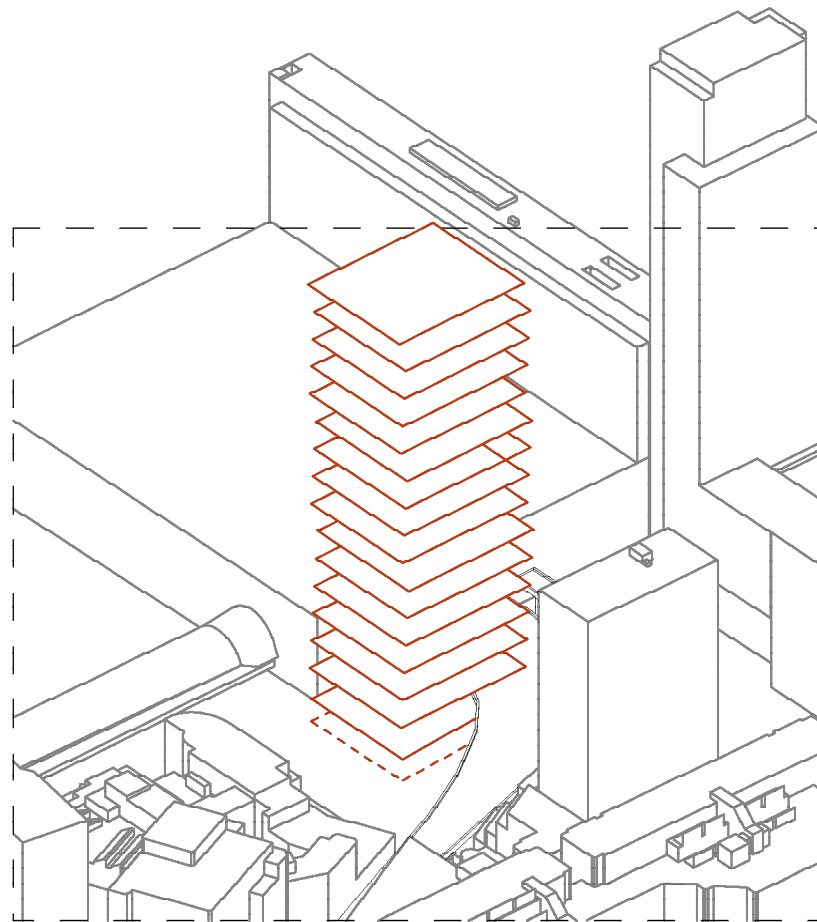
- It offers a variety of workspaces (from shared spaces to individual studying)
- It provides flexible classrooms (they can be transformed or can be found in multiple locations even outside campus)
 - It shelters non-academic functions
 - It is open for 20 hours every day
- It consists of a network of indoor-outdoor spaces extending on all levels
 - It has spaces with no access restrictions
- It incorporates in its constellation spaces from near buildings that are unused
 - It is the home of 3-to-103- years-old learners
 - It is experienced as part of the city
 - It showcases the learning process

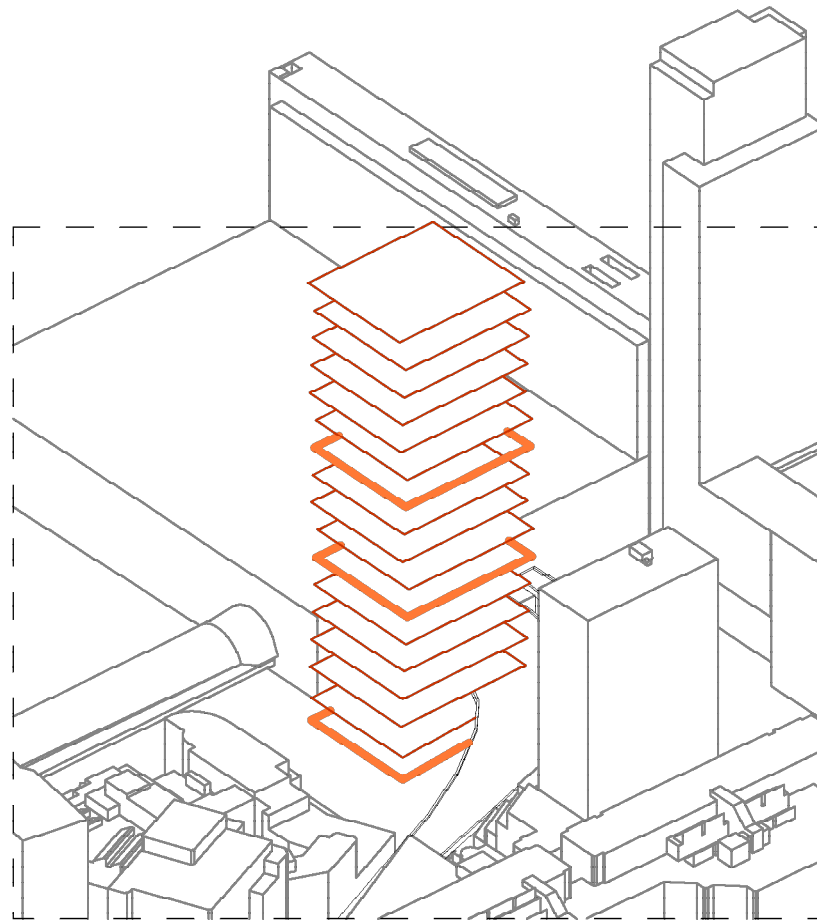


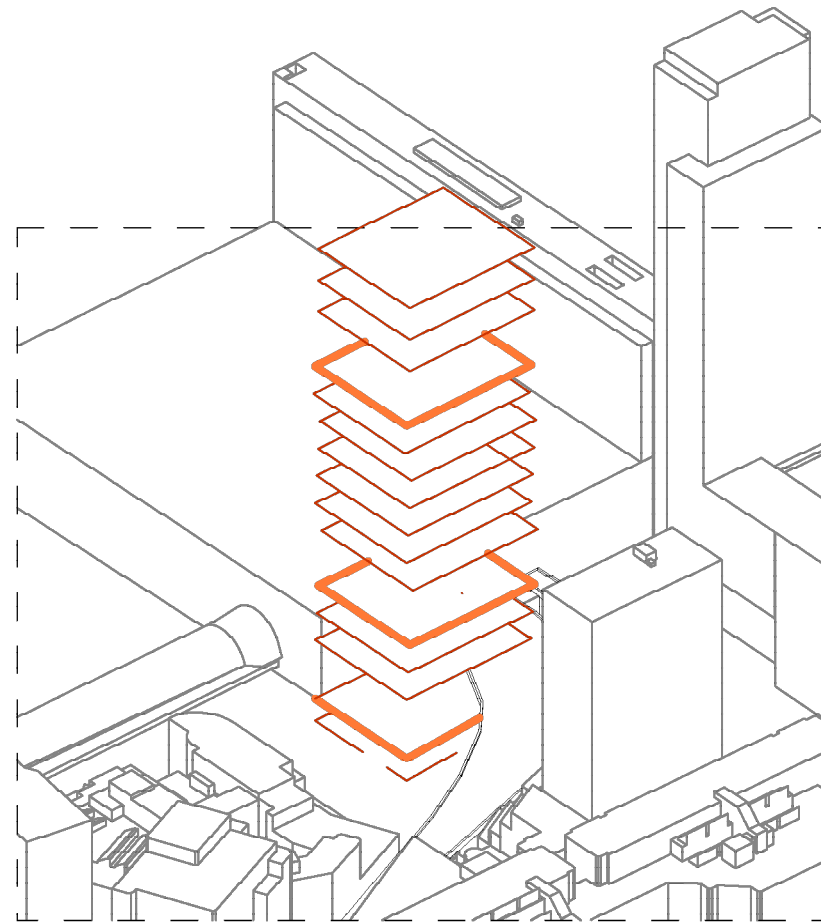
Interwoven elements

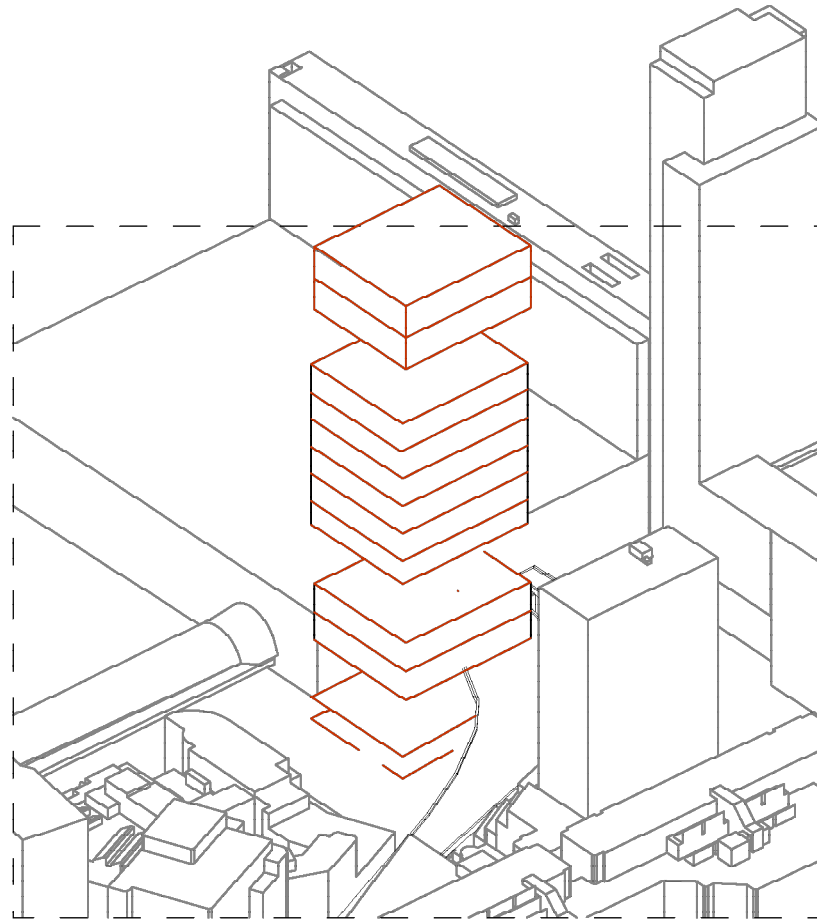


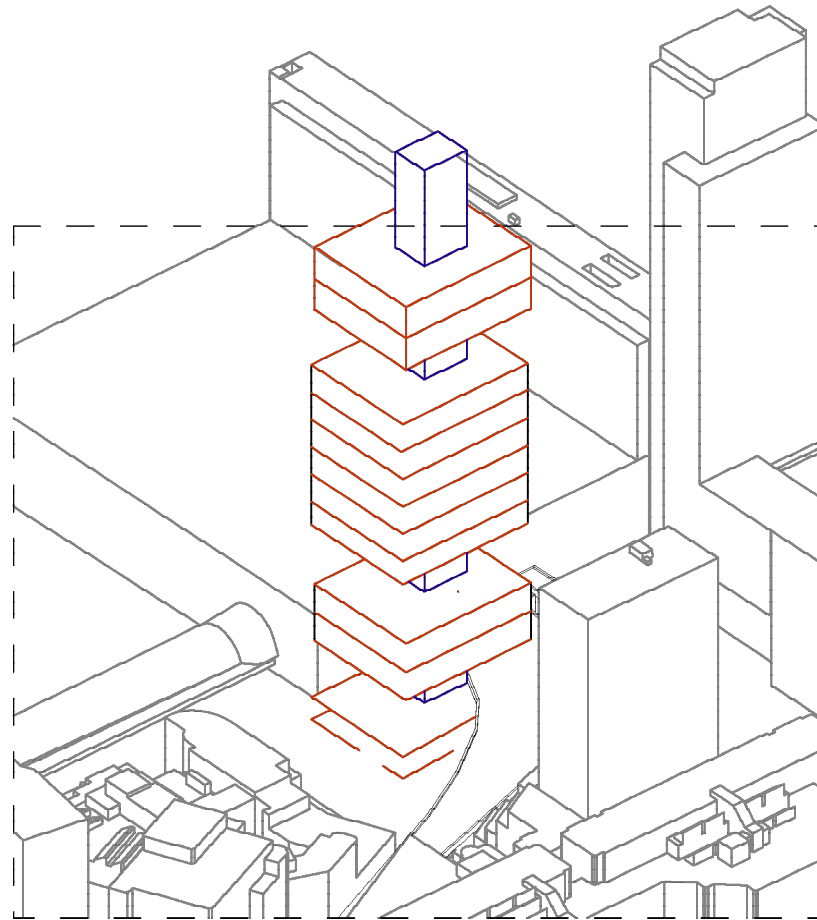


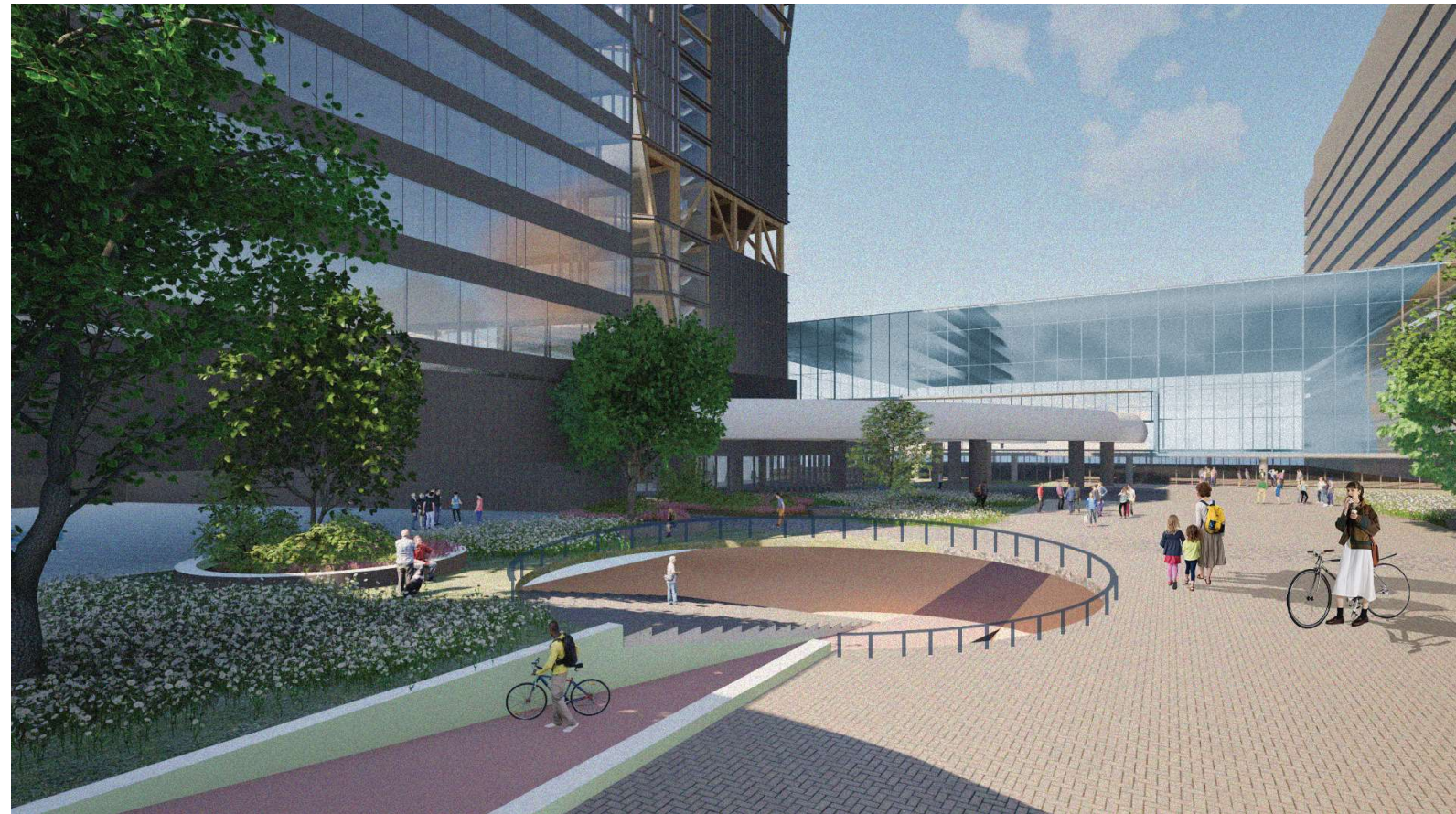


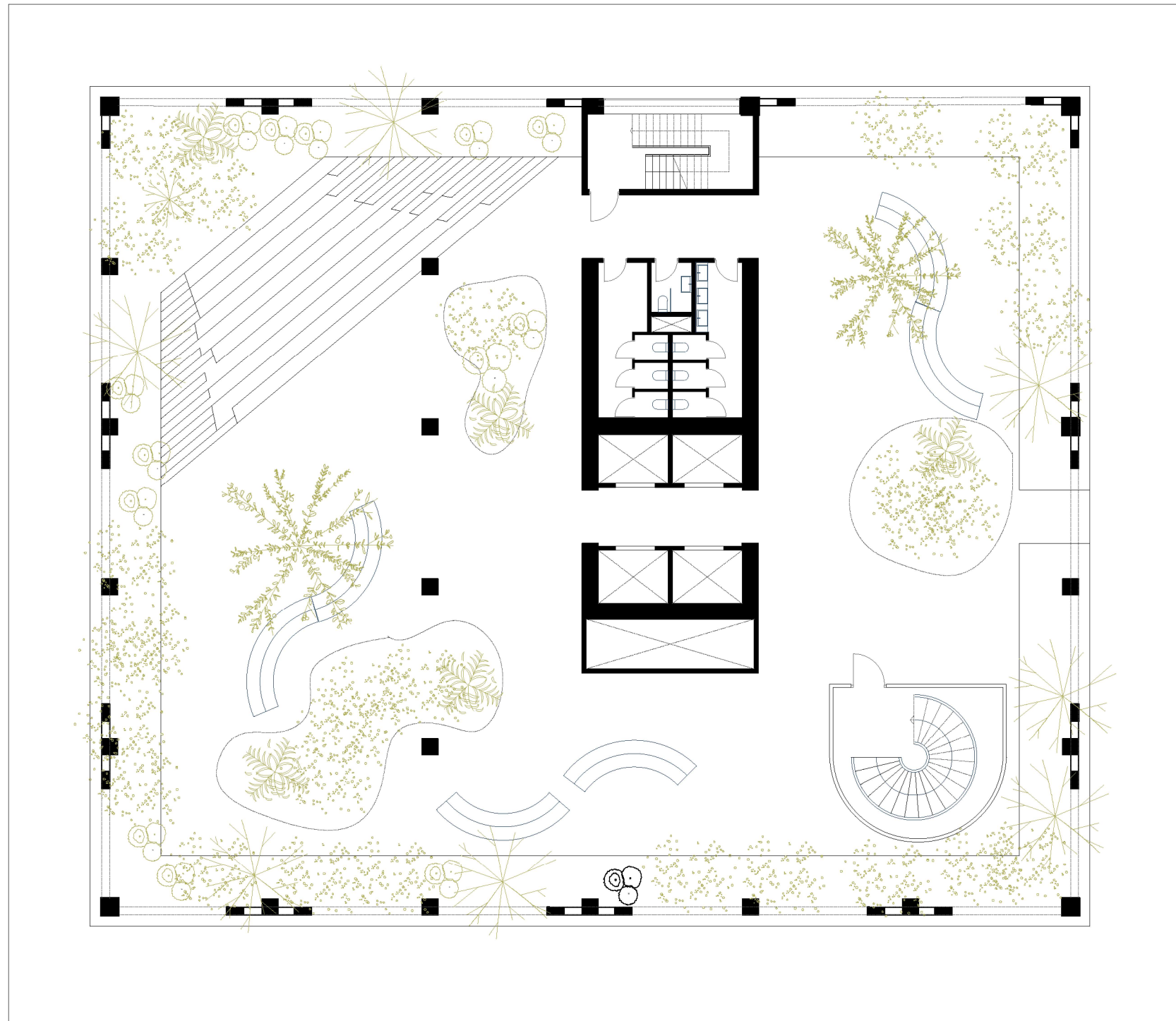








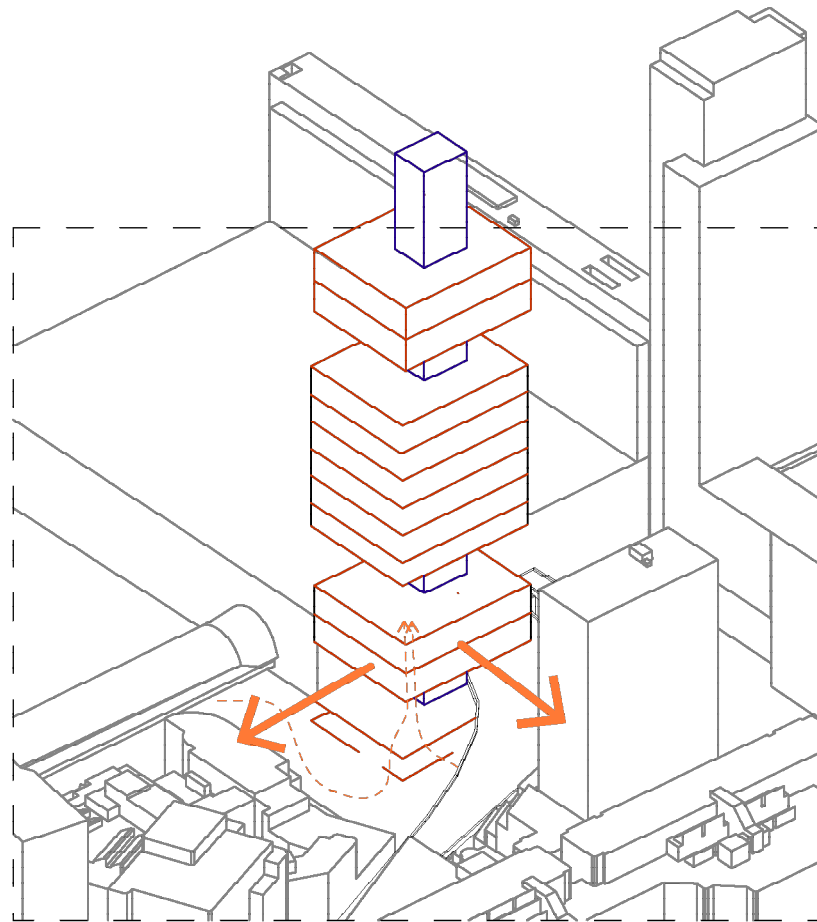




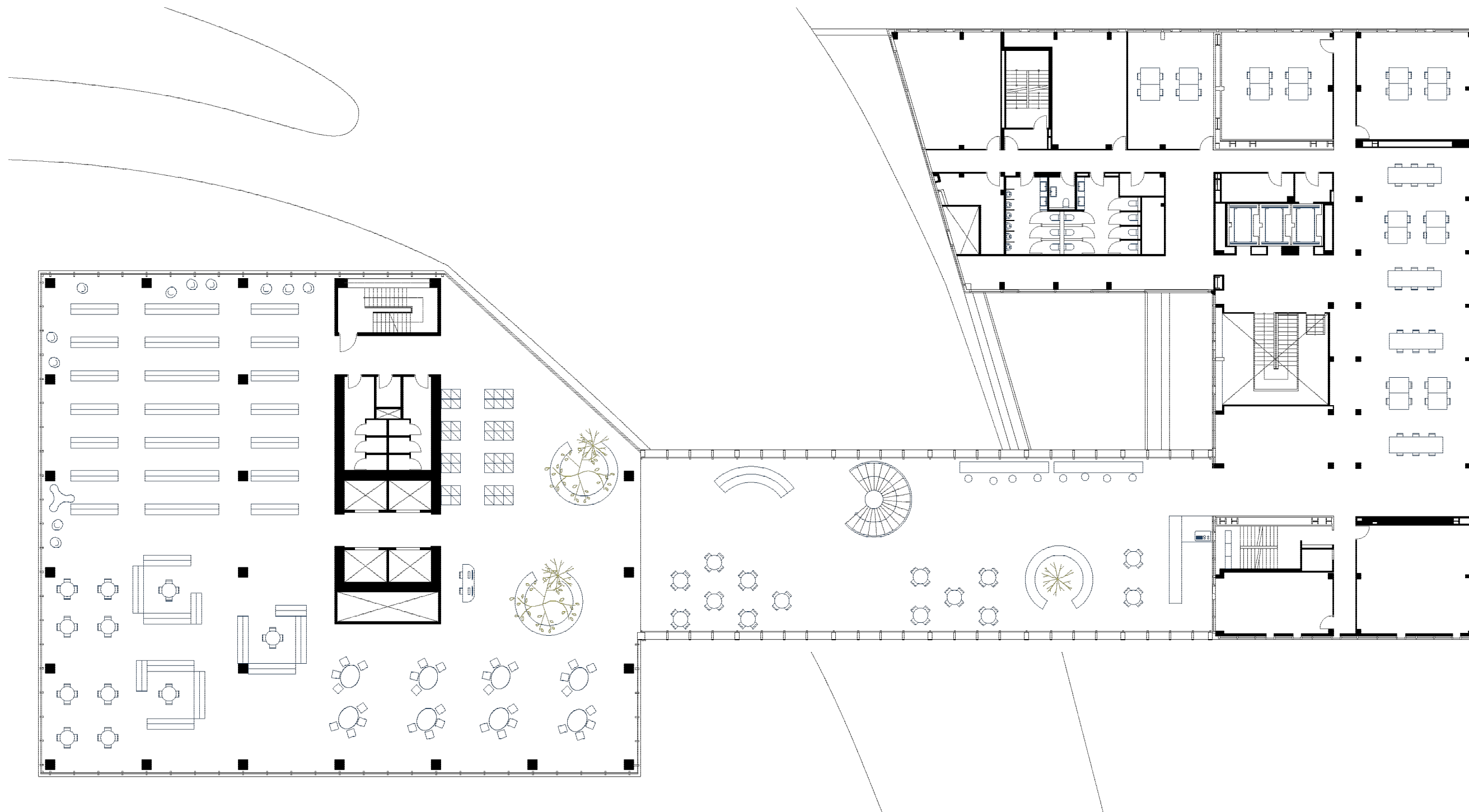
Open platform floorplan



Open platform perspective view







Level 4 floorplan/ Connection with the Leiden building



Library Level/ Leiden Connection



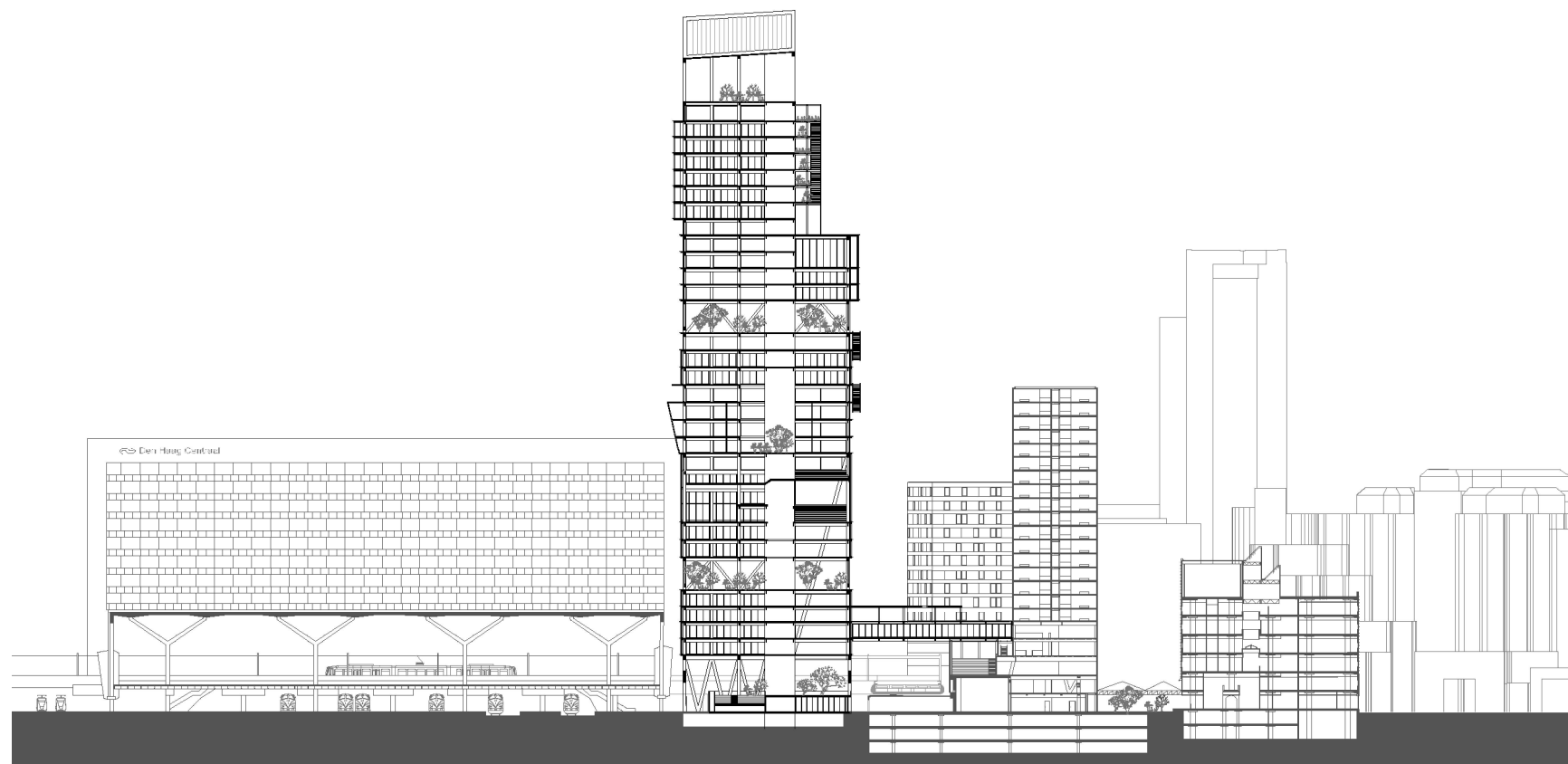
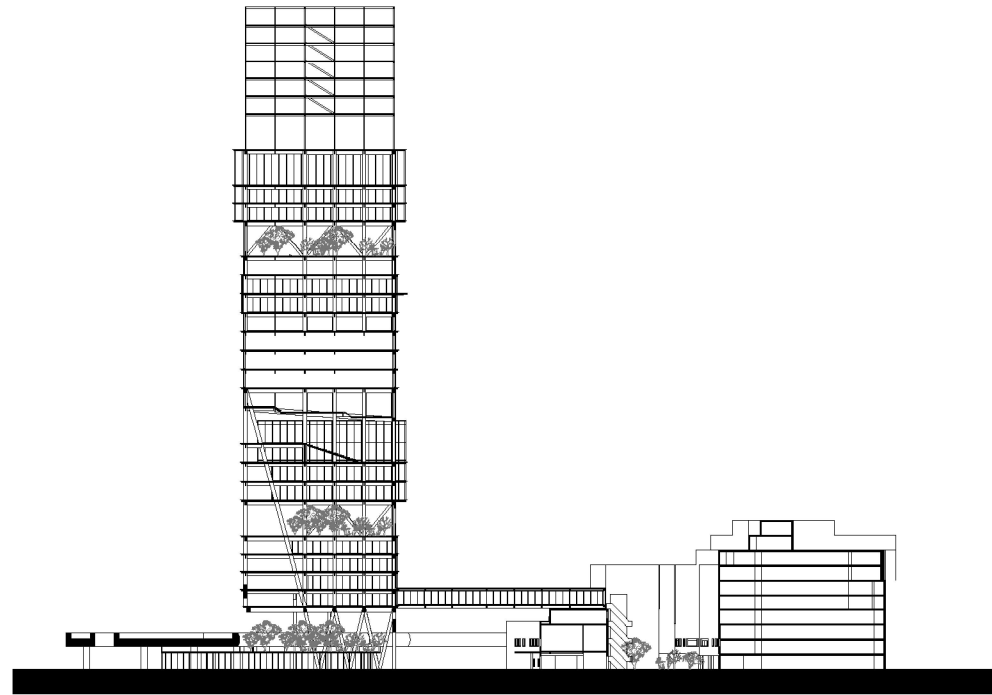
Leiden Connection platform



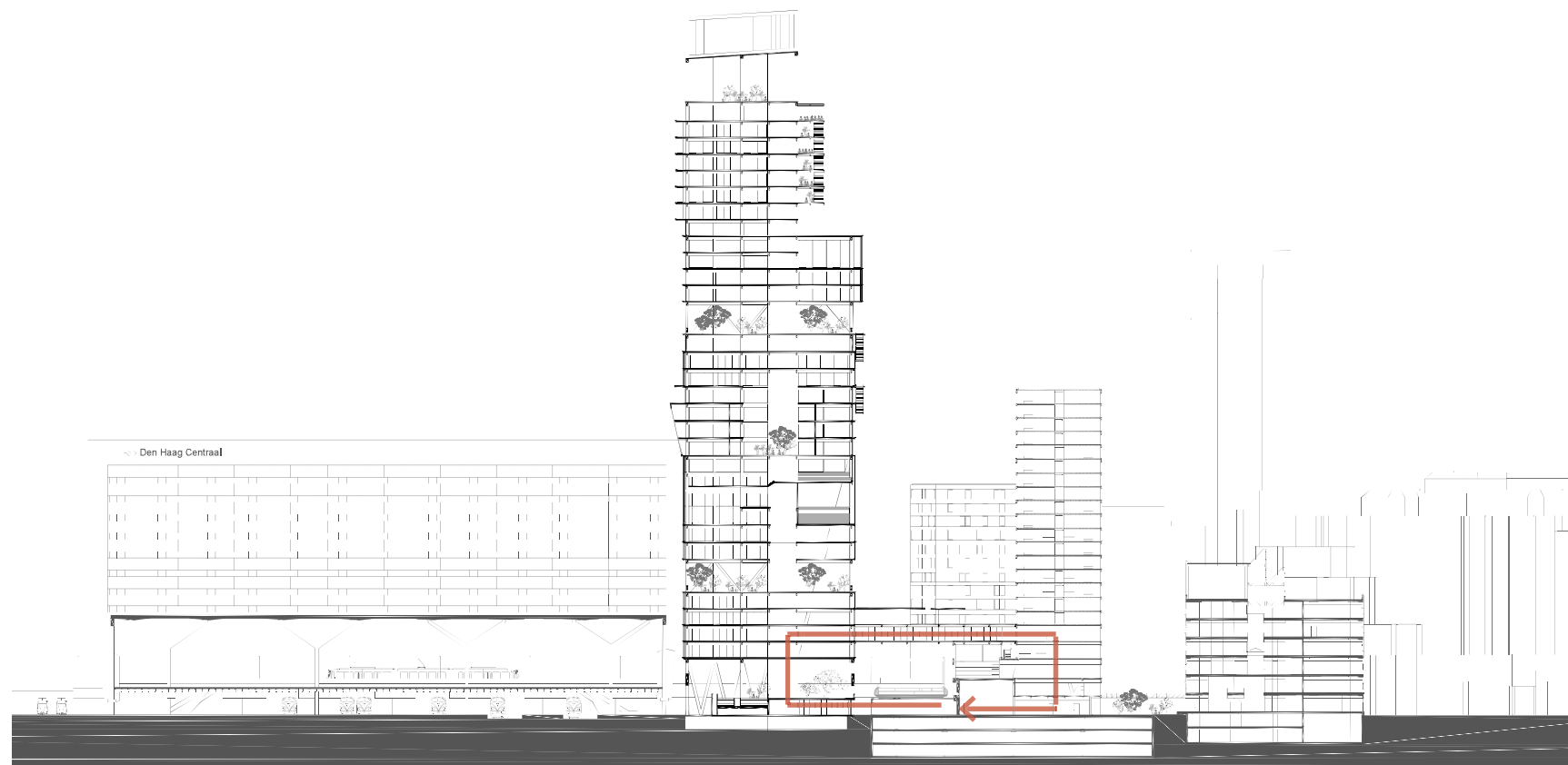
Level 3 floorplan/ Connection with the Archive building



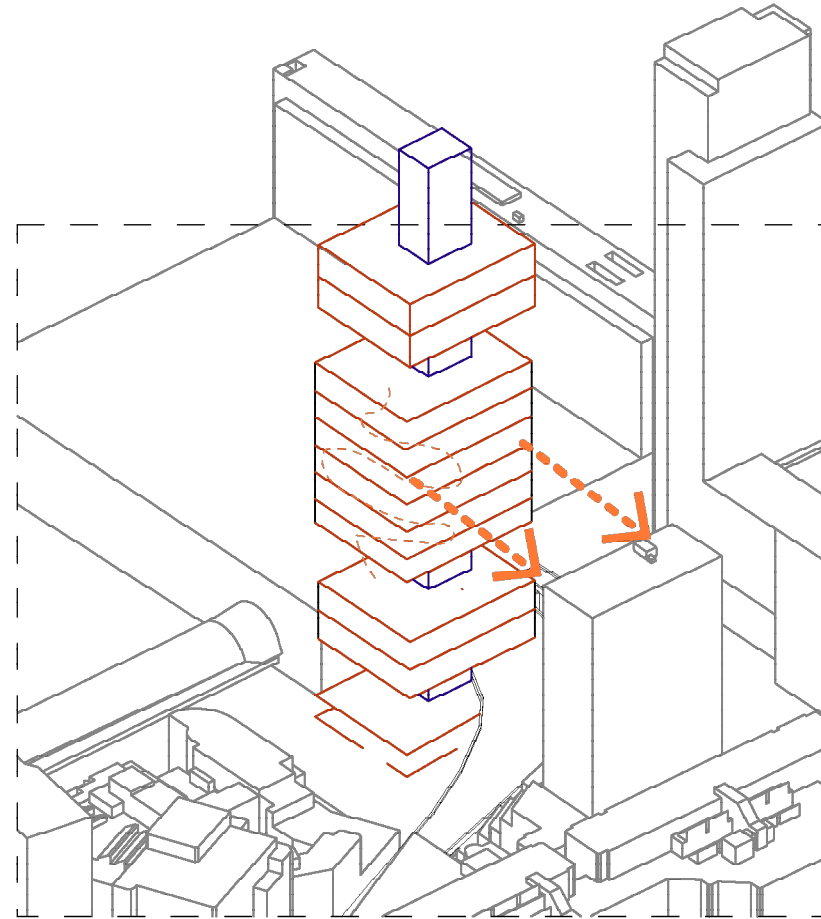
Archive building Courtyard

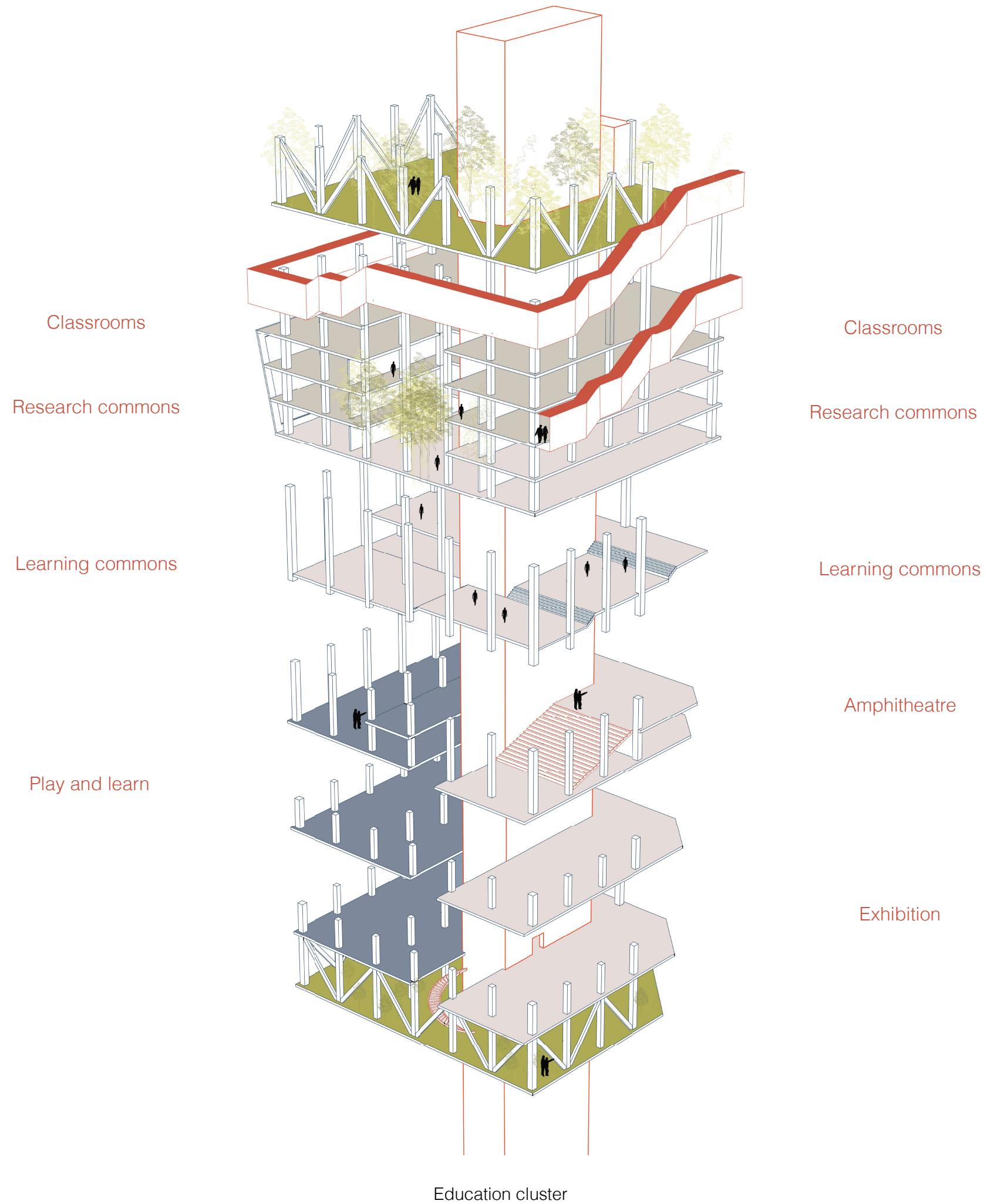


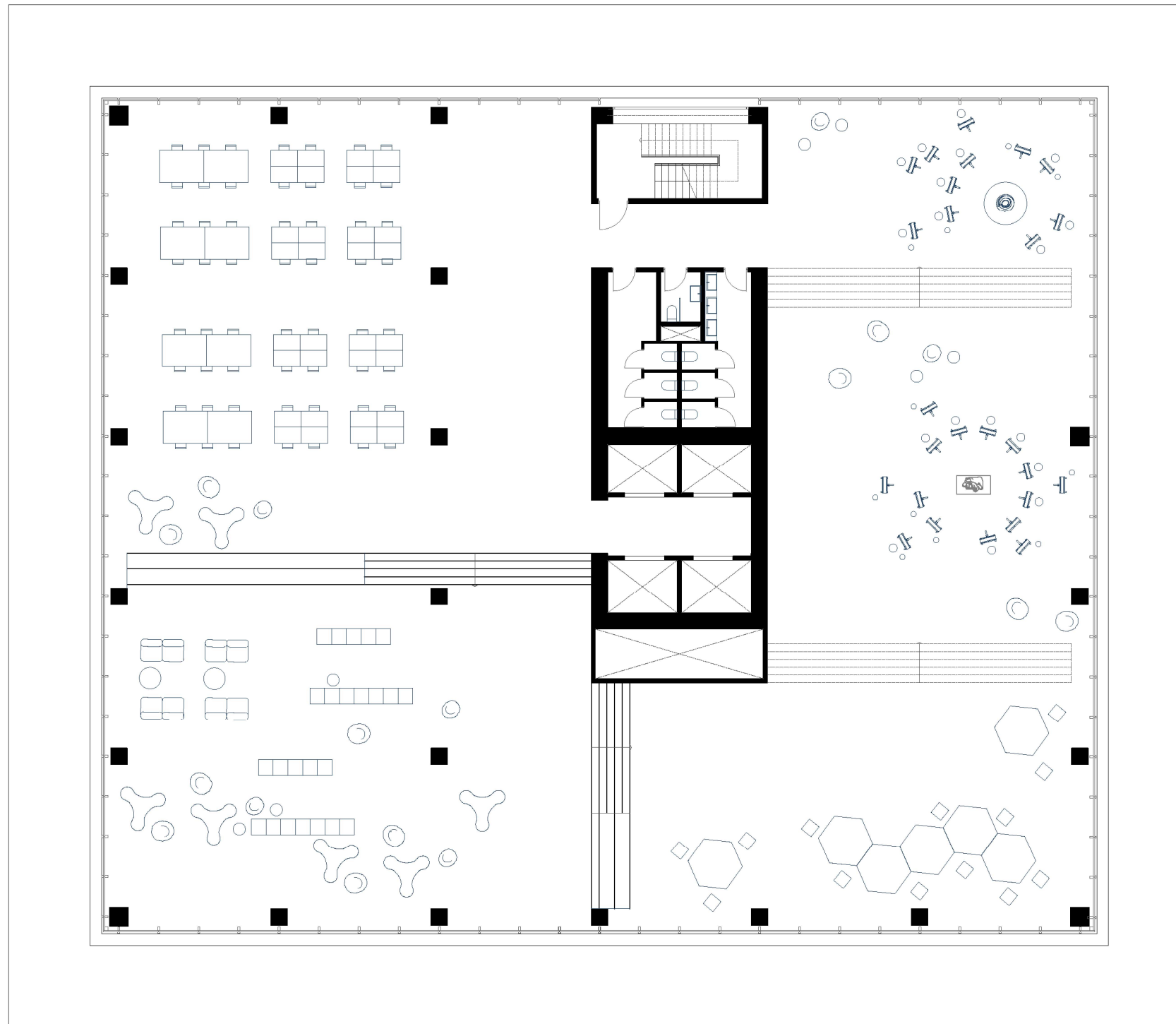
Sections



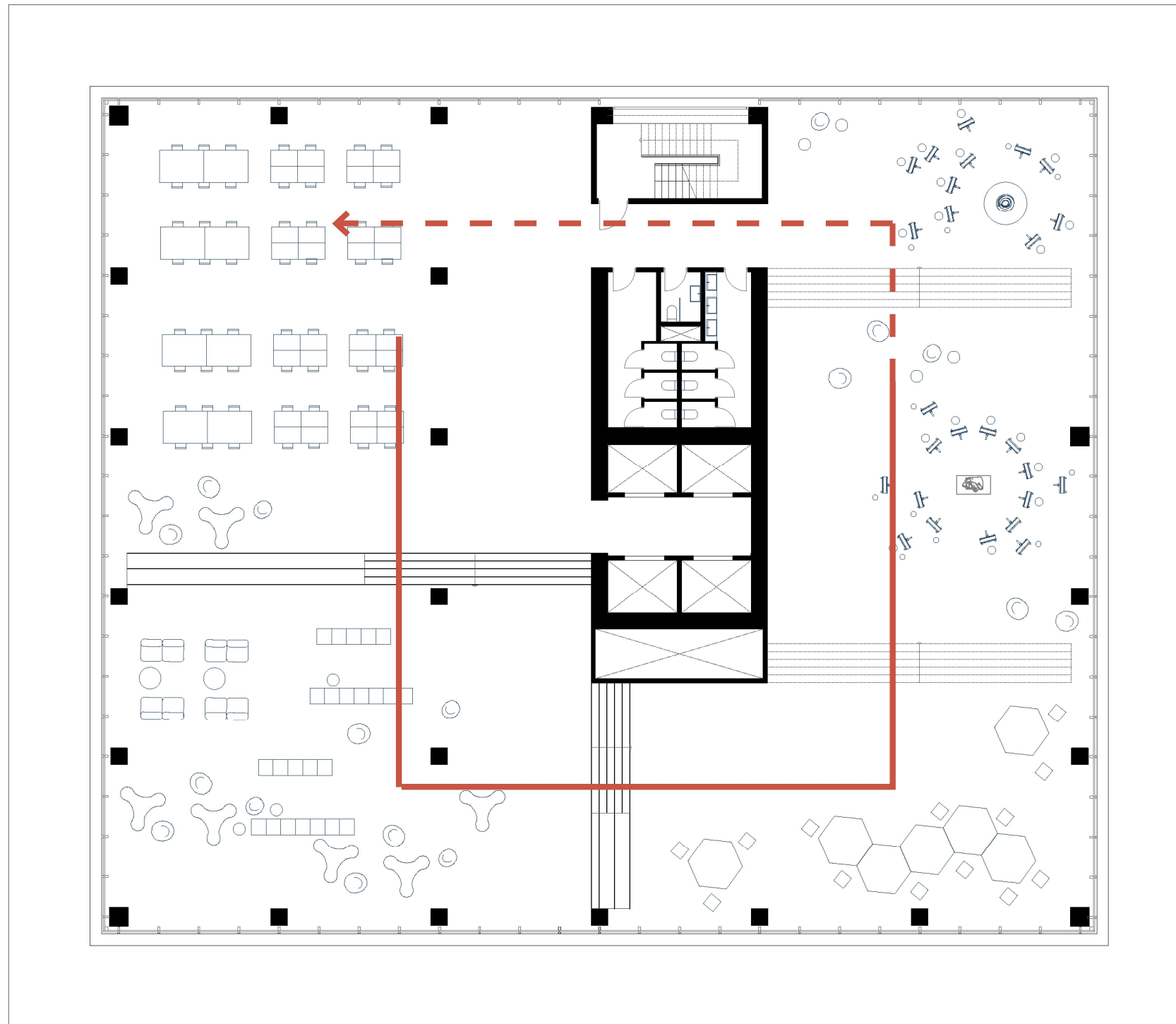
Sections







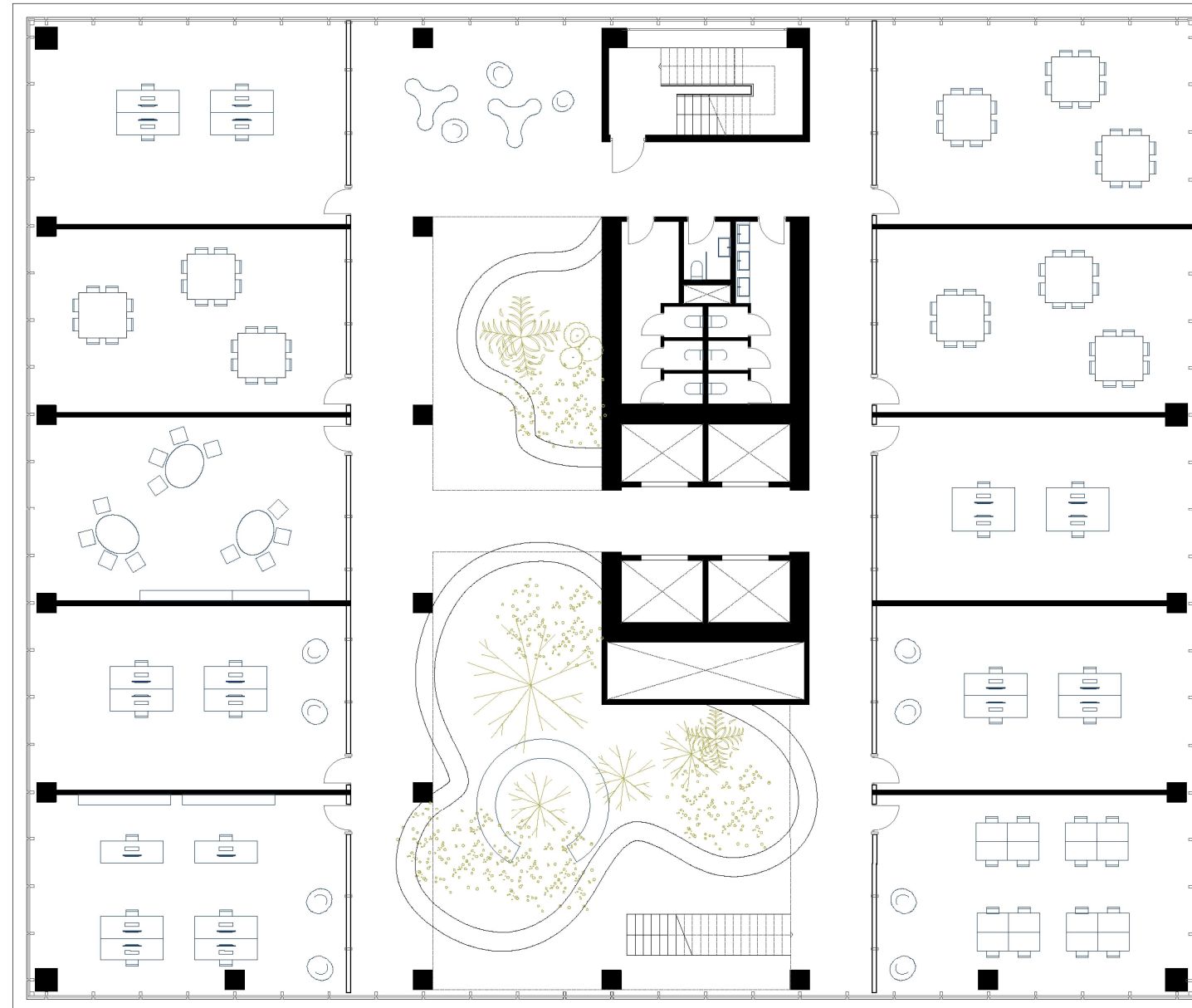
Learning Commons floorplan



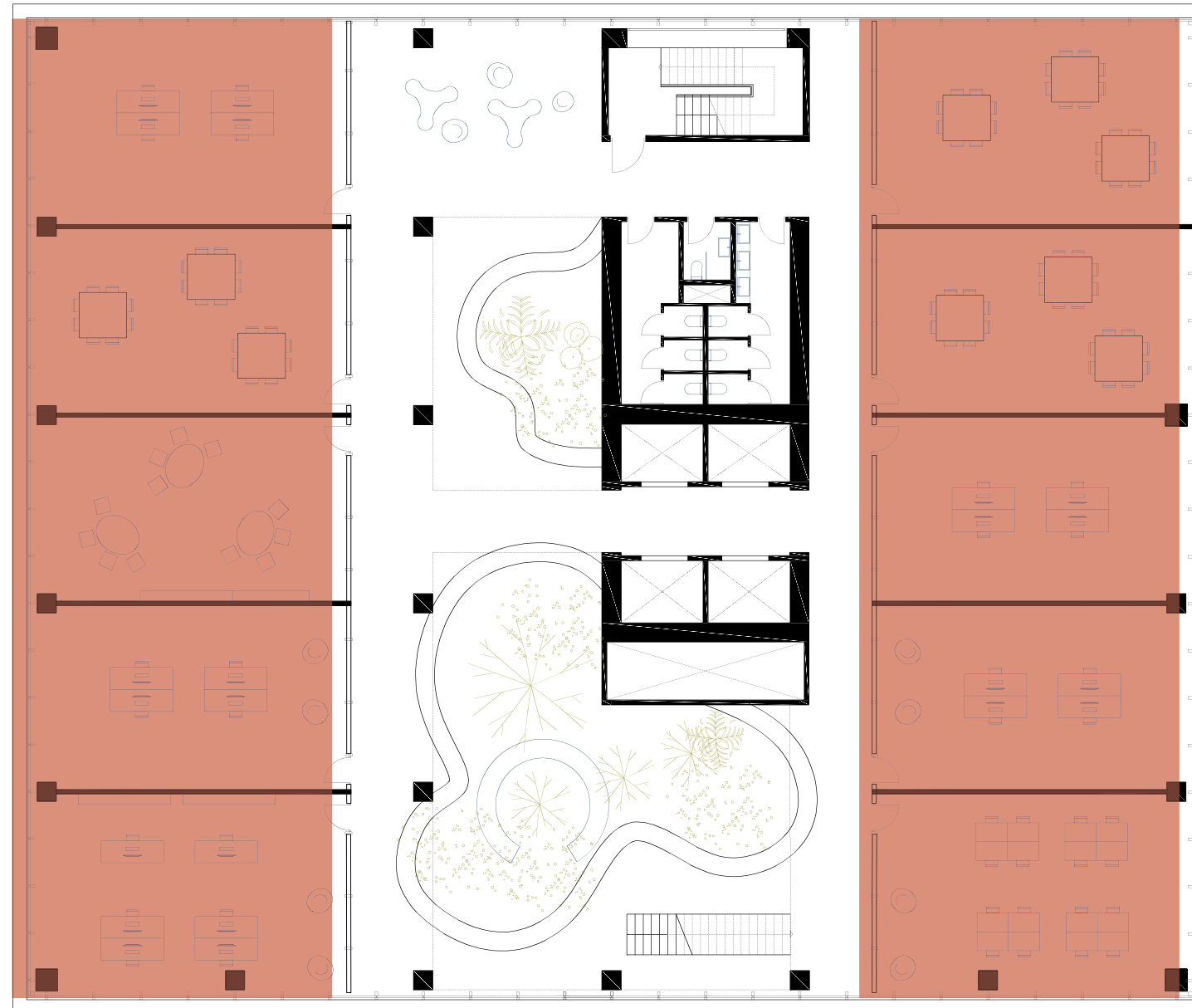
Learning Commons floorplan



Learning Commons



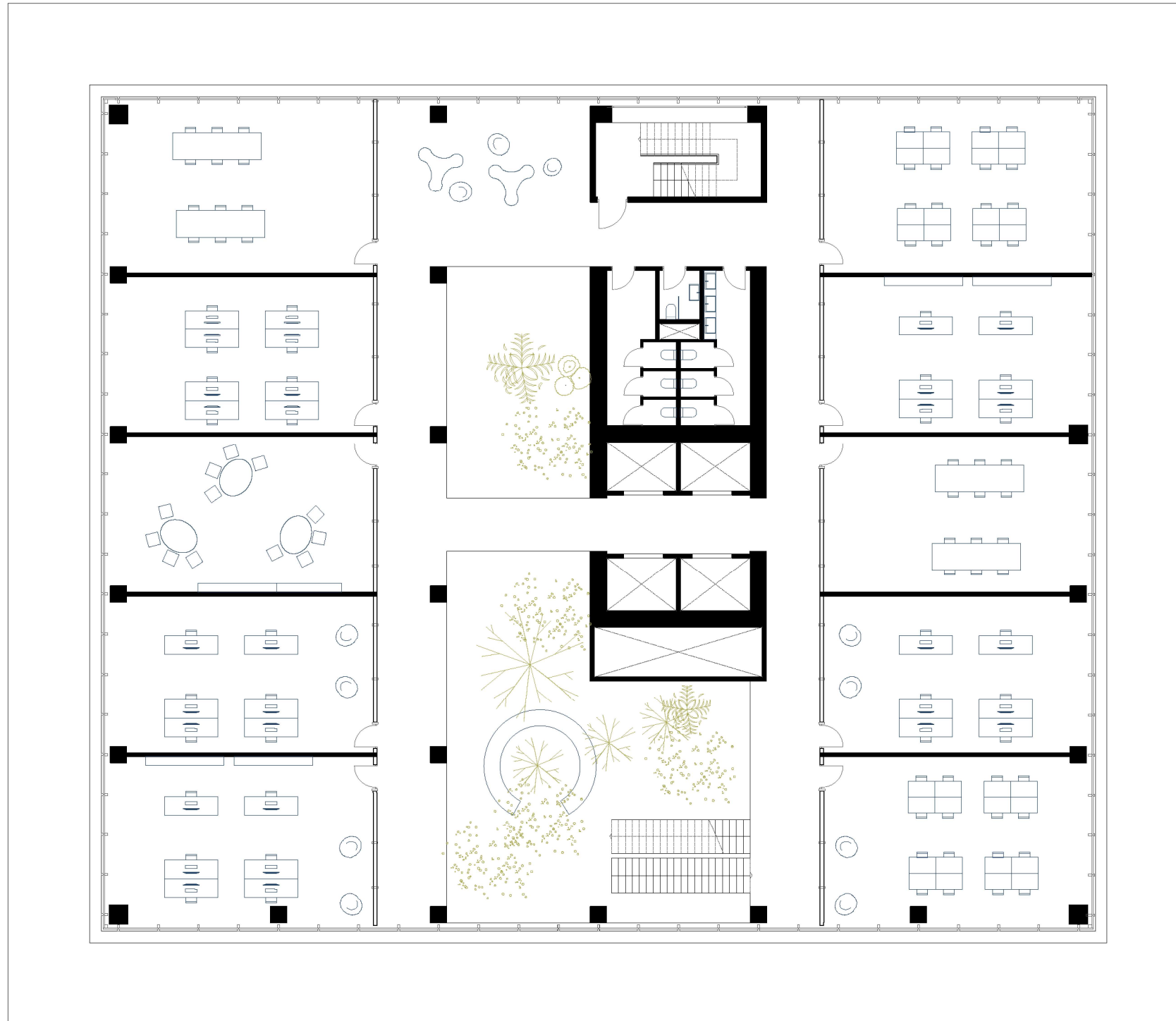
Research Commons floorplan



Research Commons floorplan



Research Commons



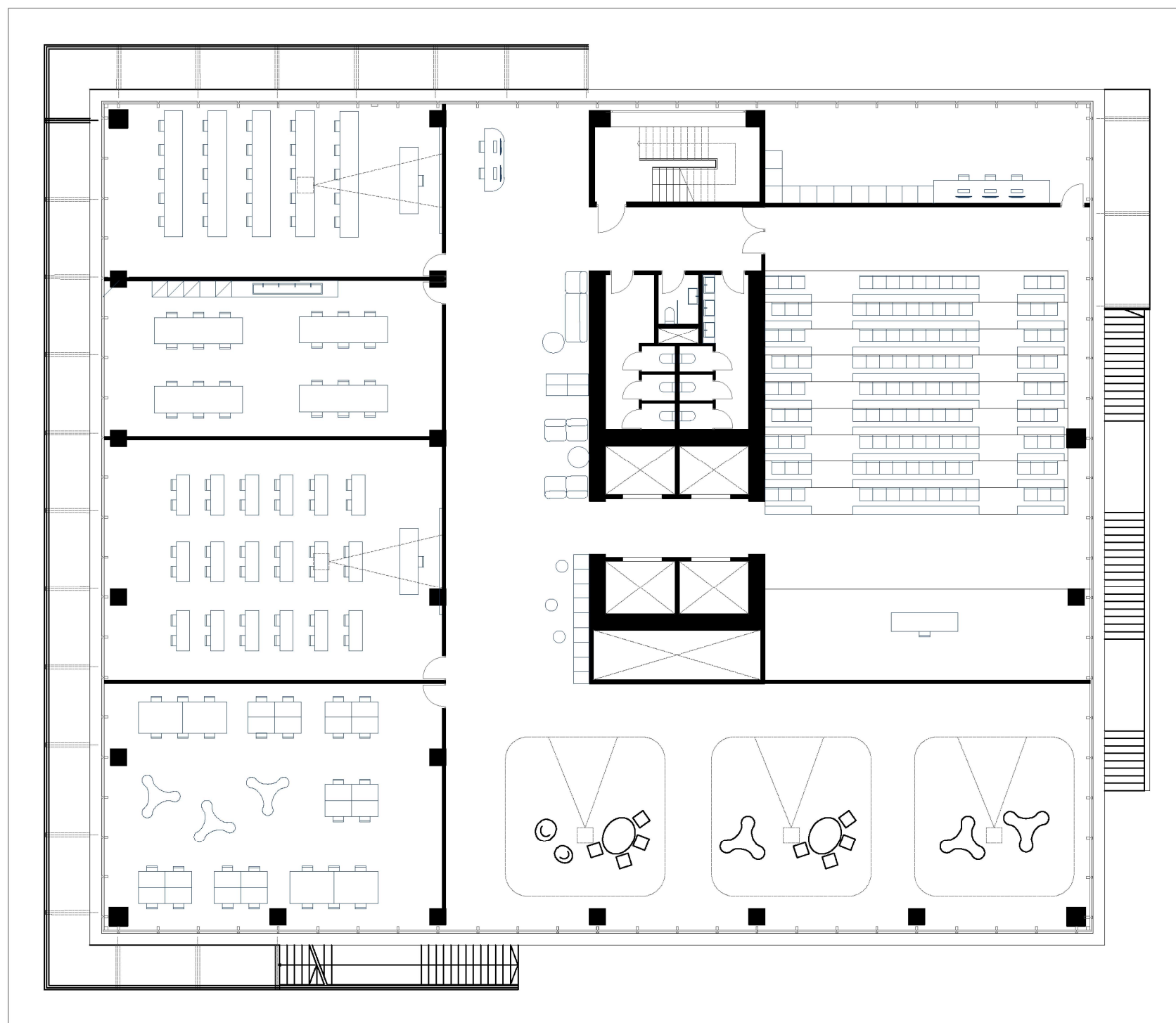
Learning Commons floorplan



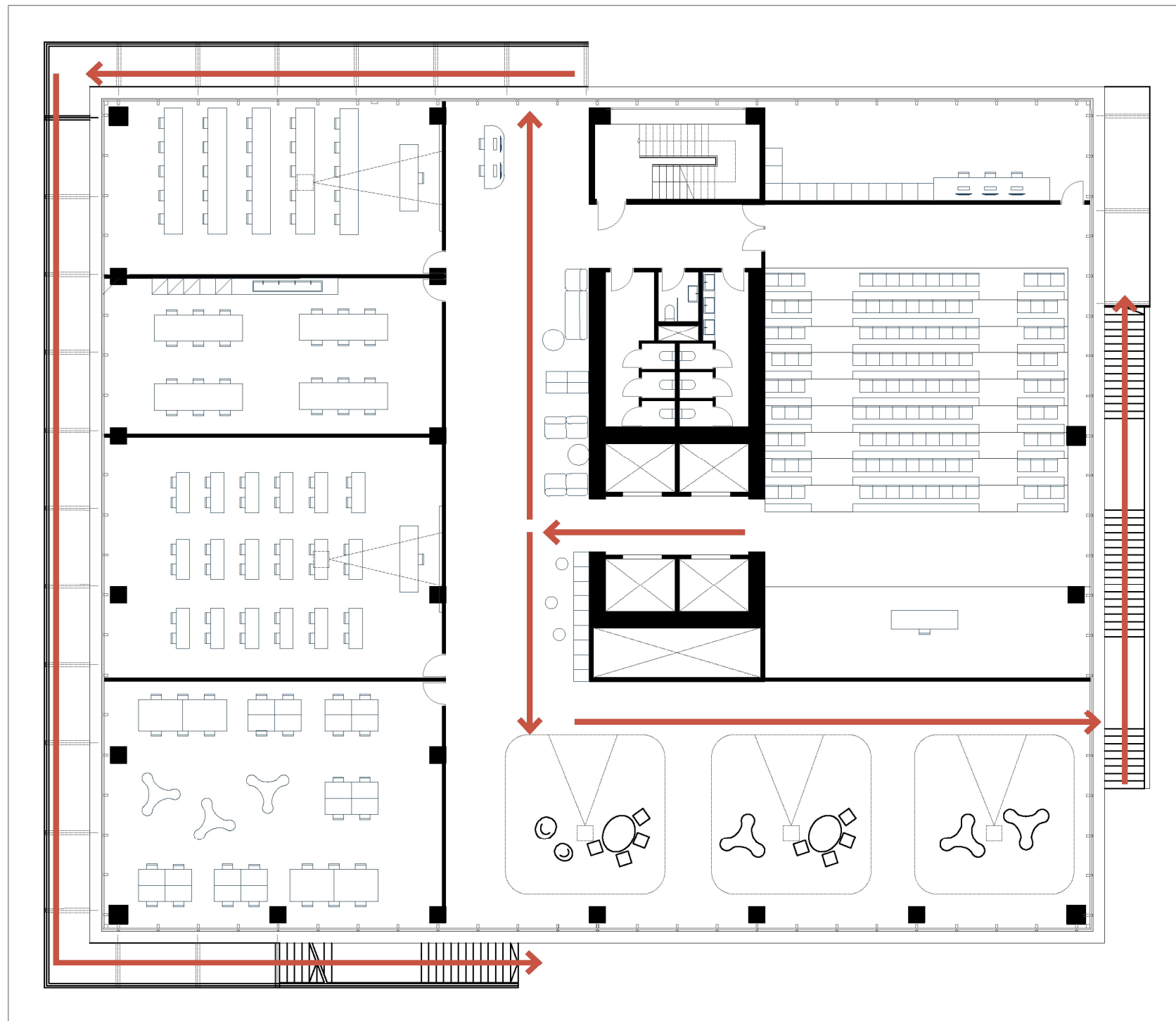
Learning Commons floorplan



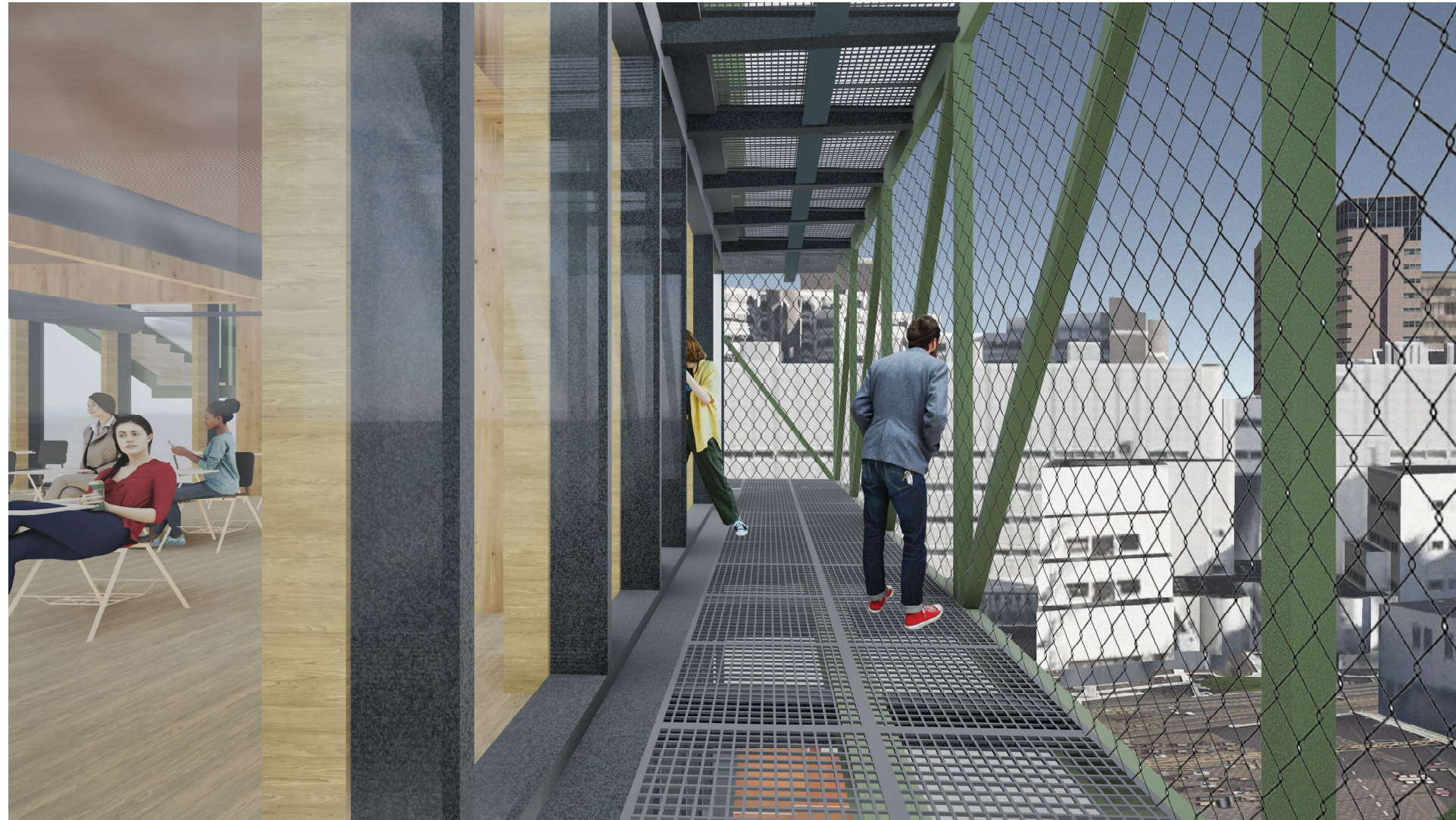
Research Commons floorplan



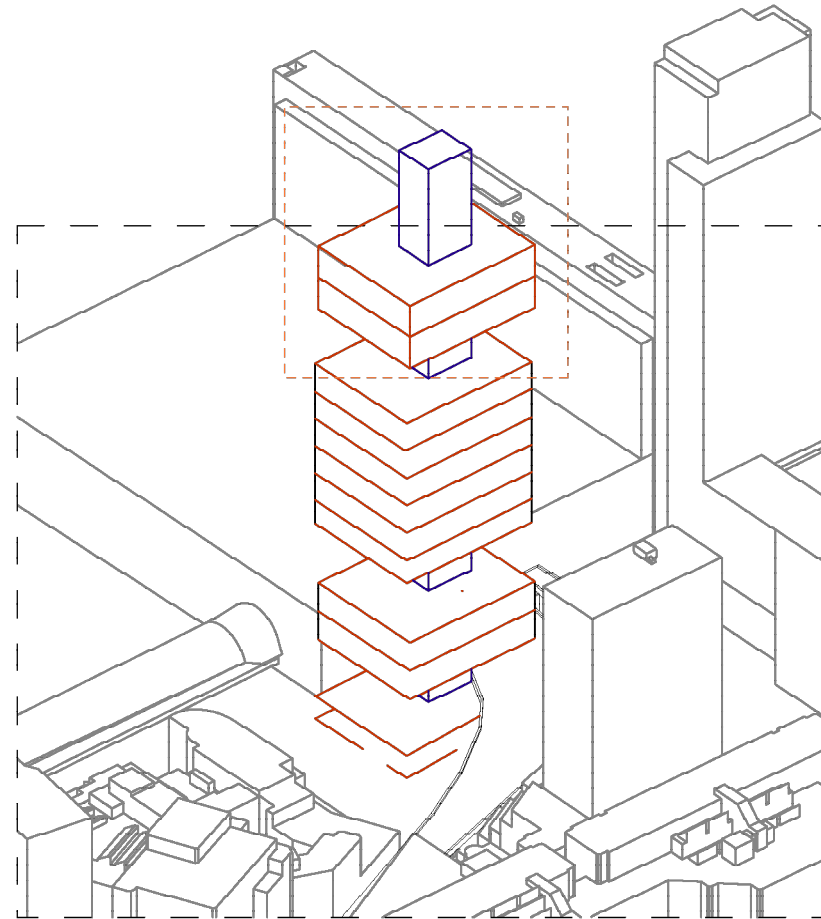
Classrooms floorplan

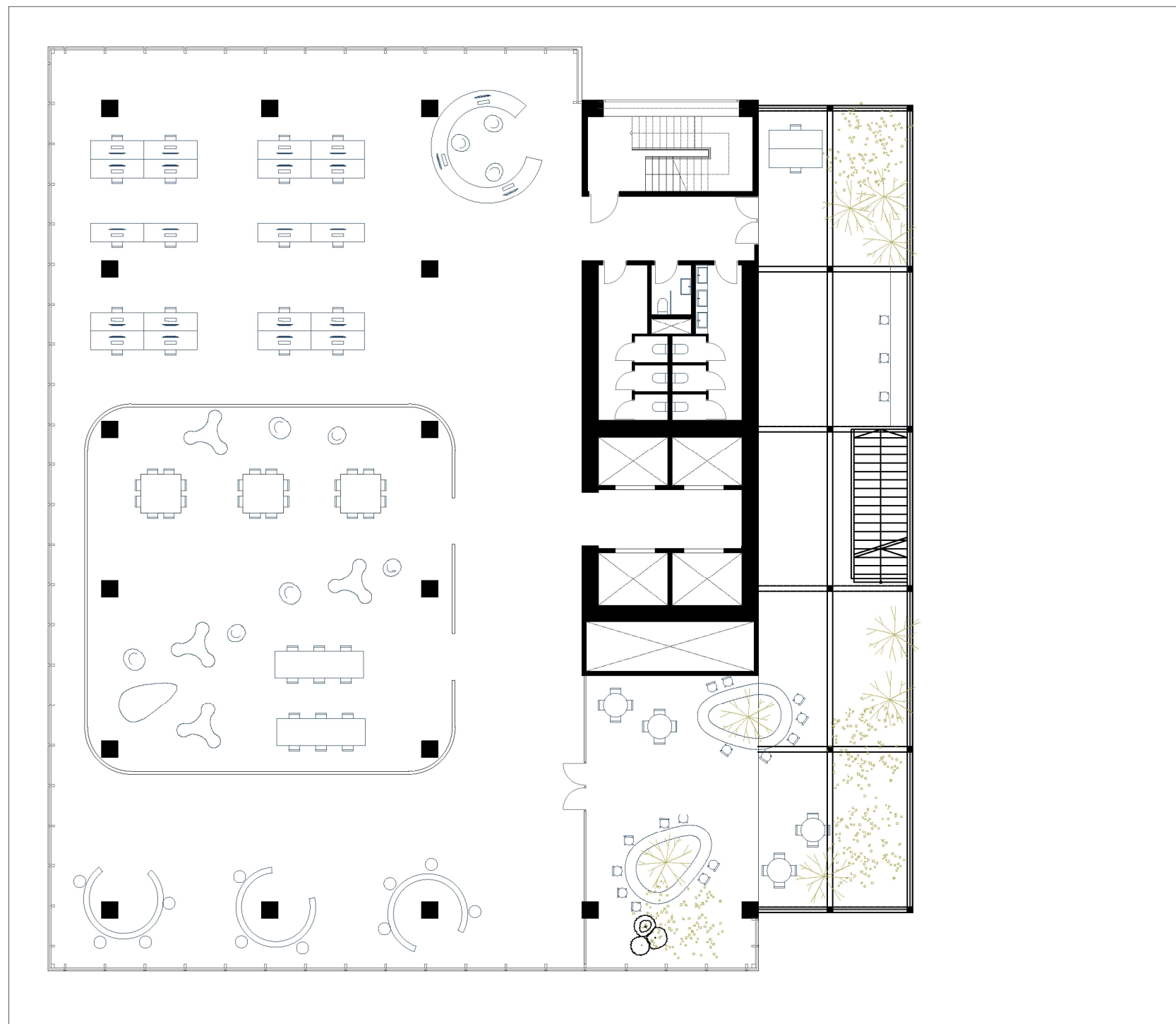


Classrooms floorplan

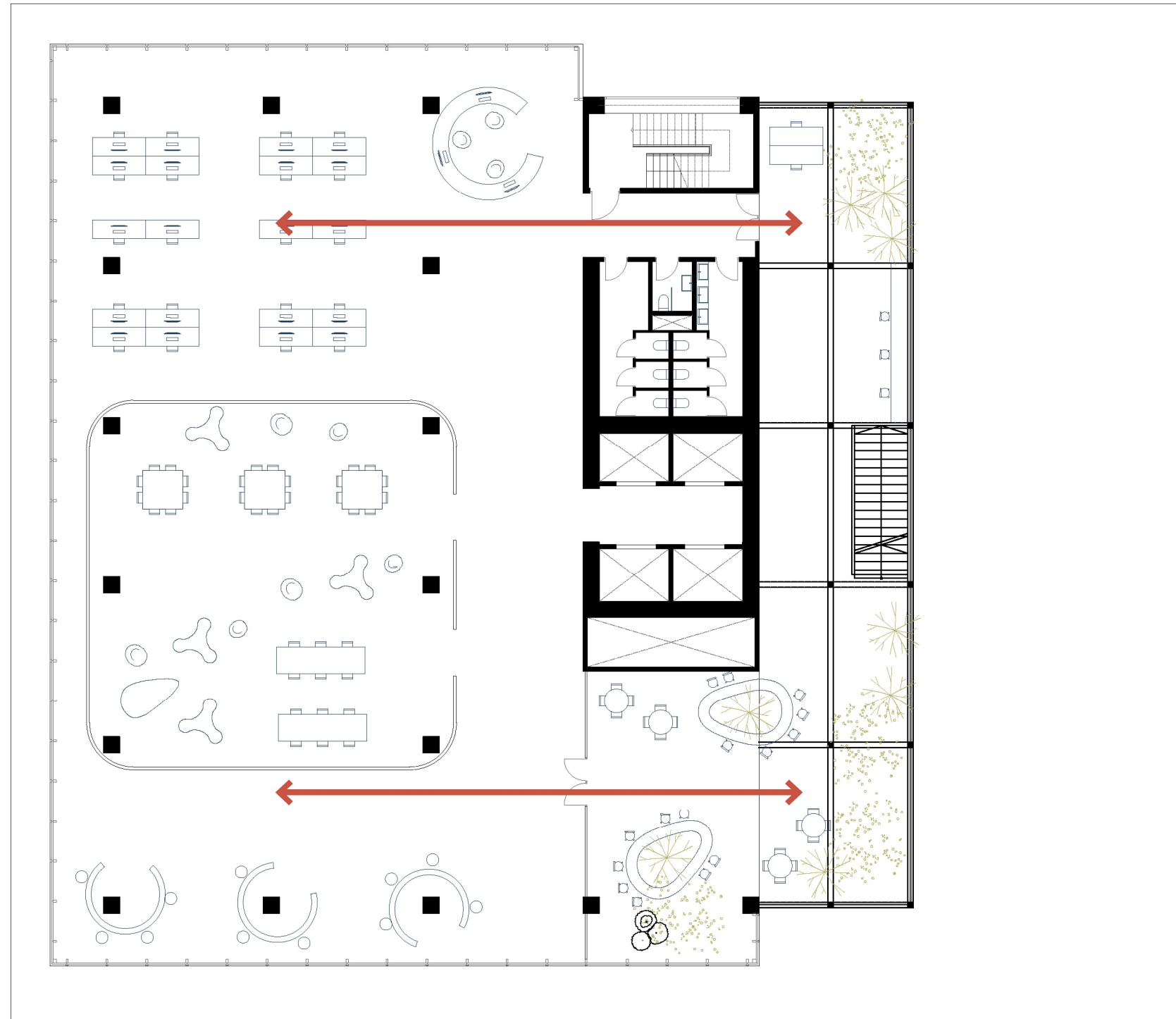


External corridor

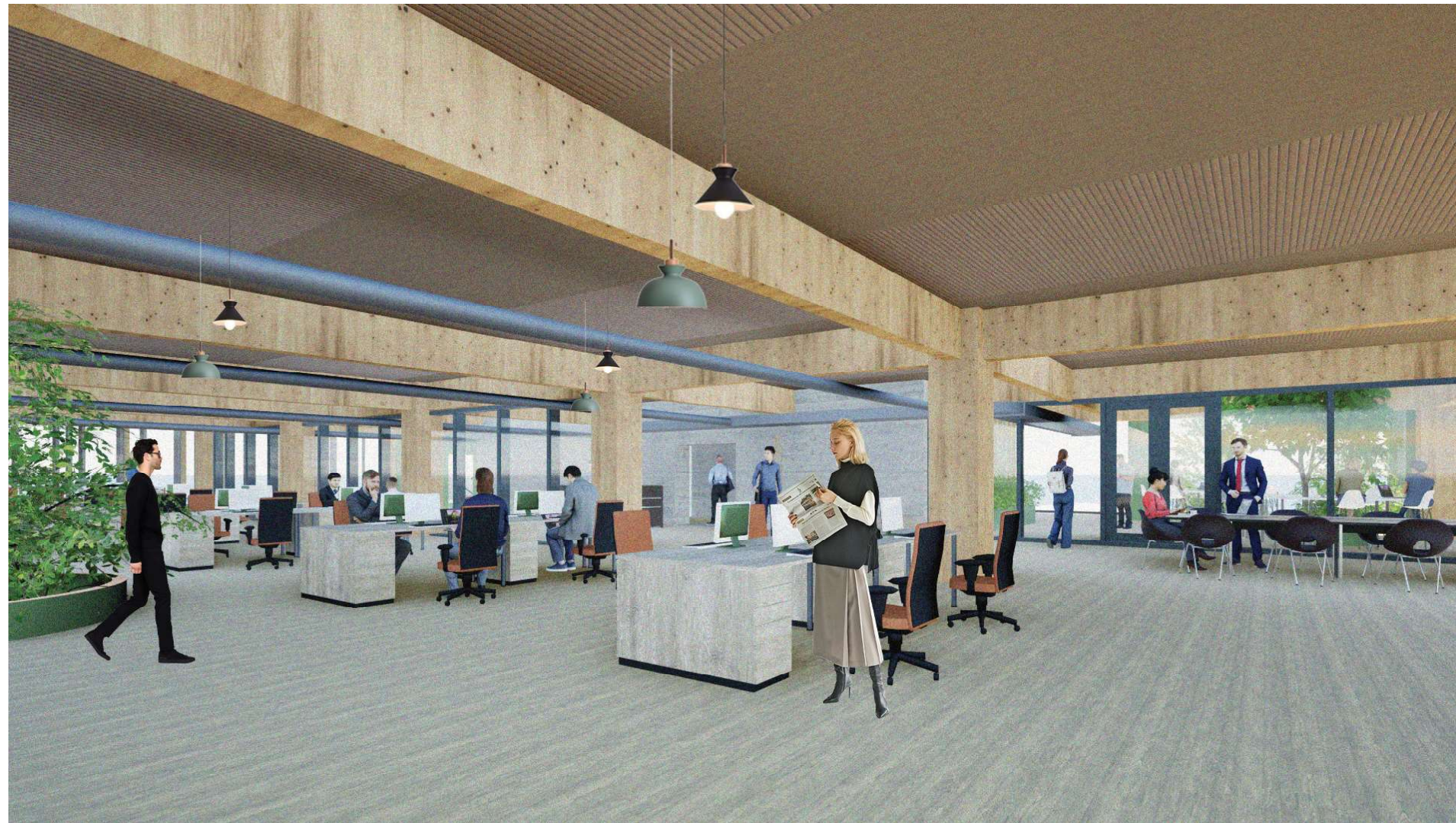




Office space floorplan



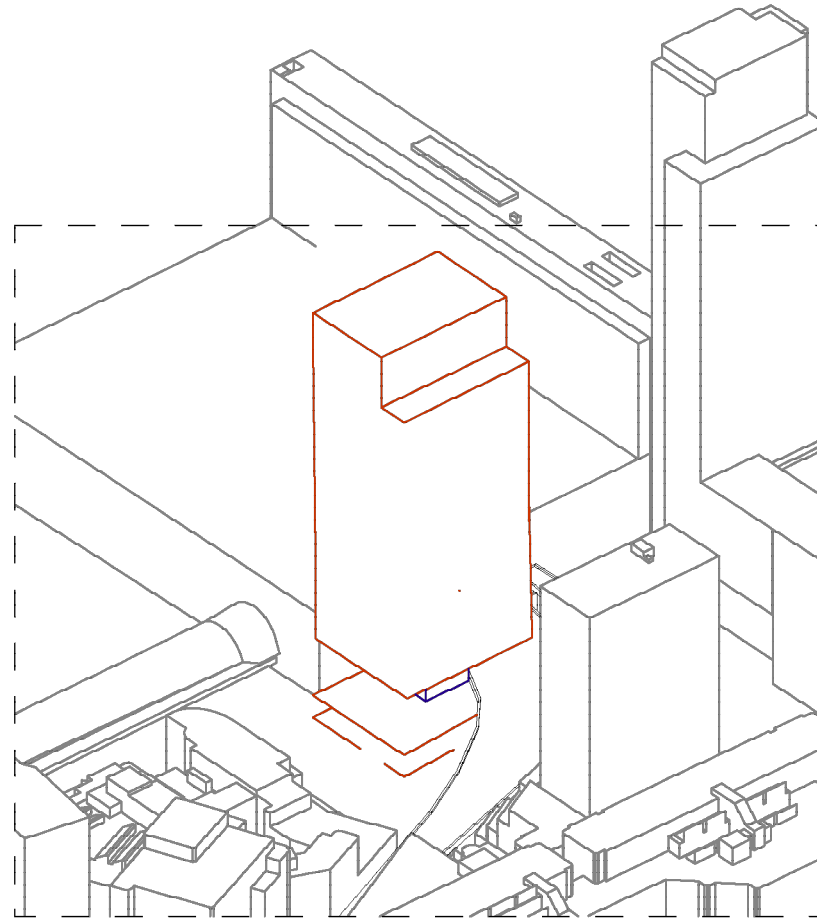
Office space floorplan

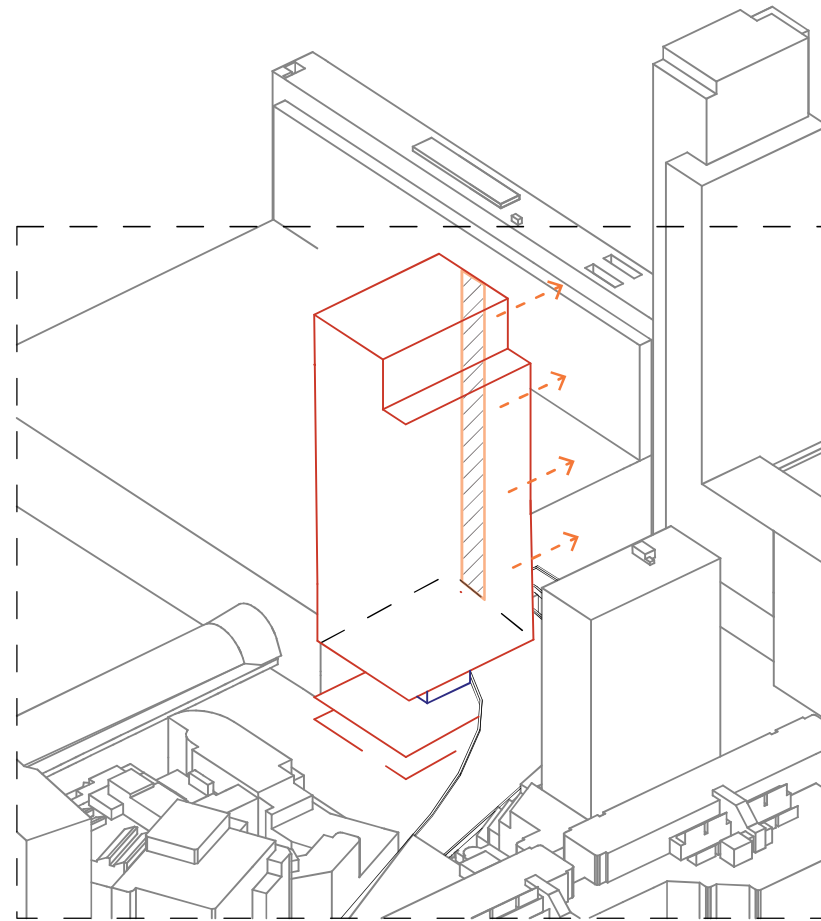


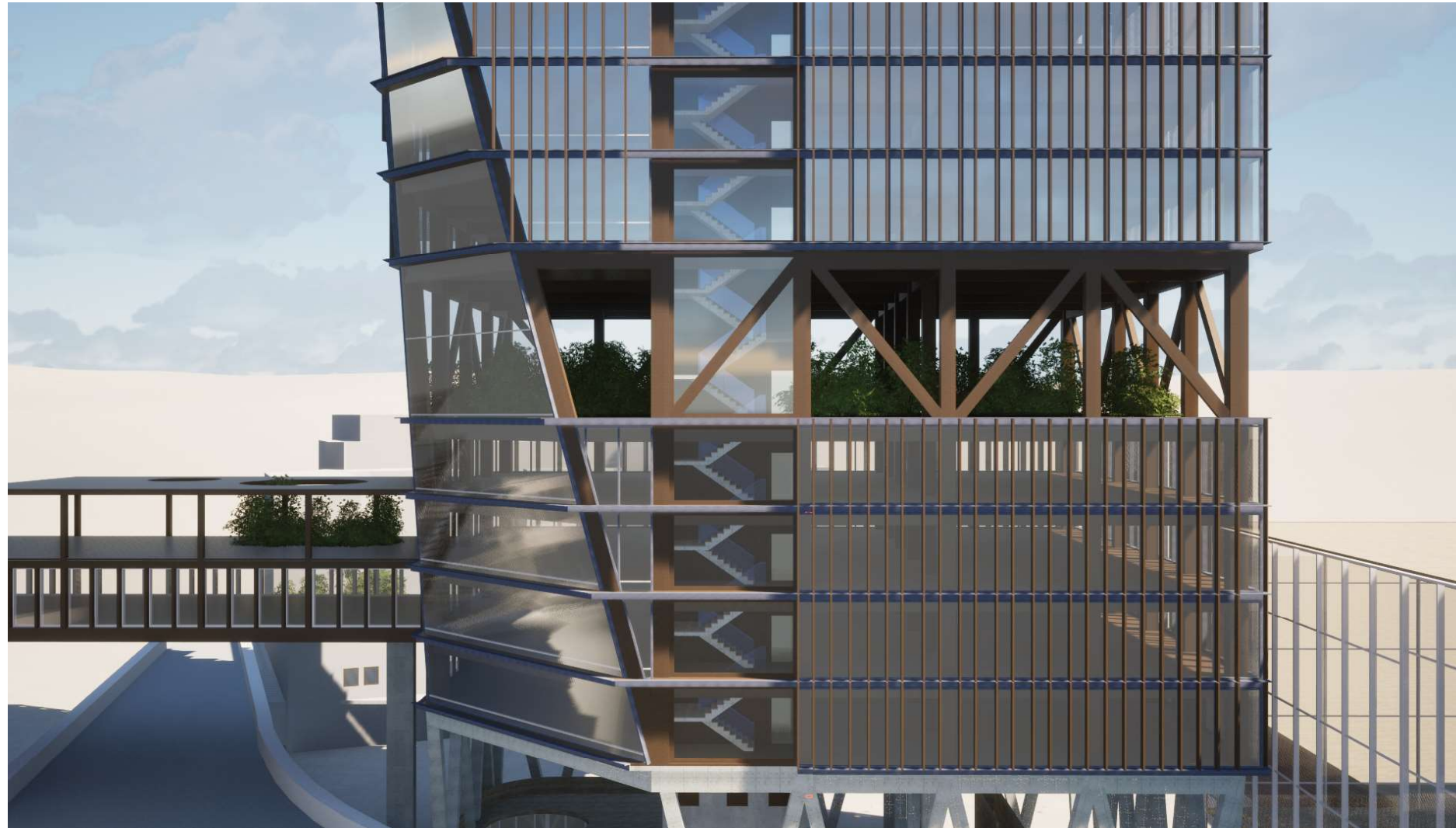
Office space

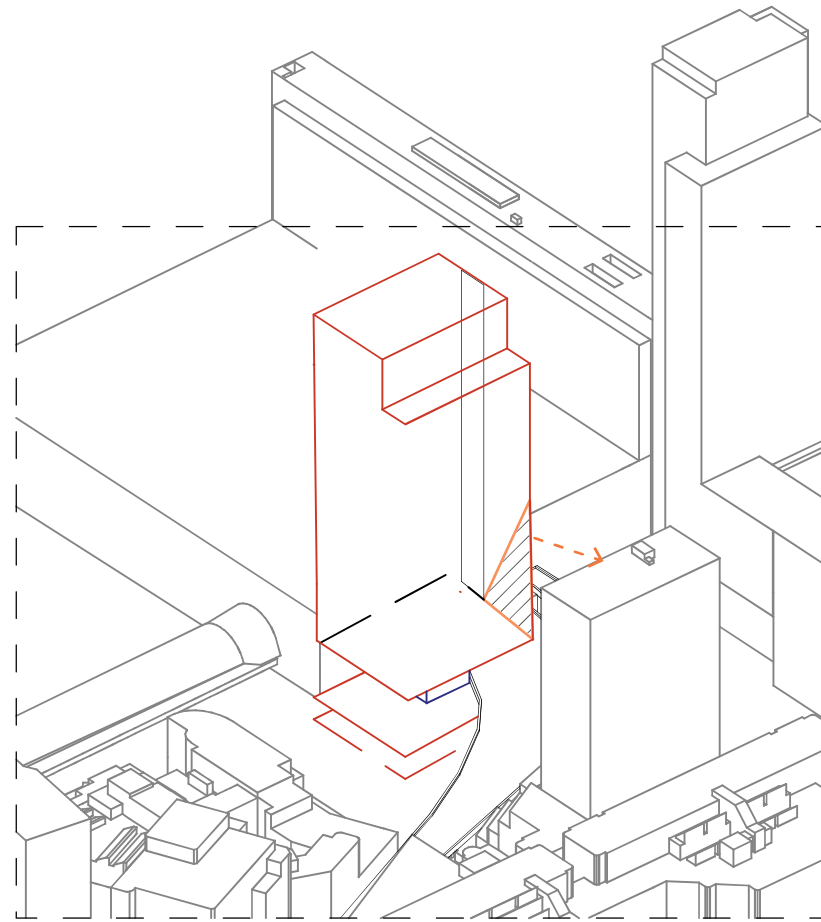


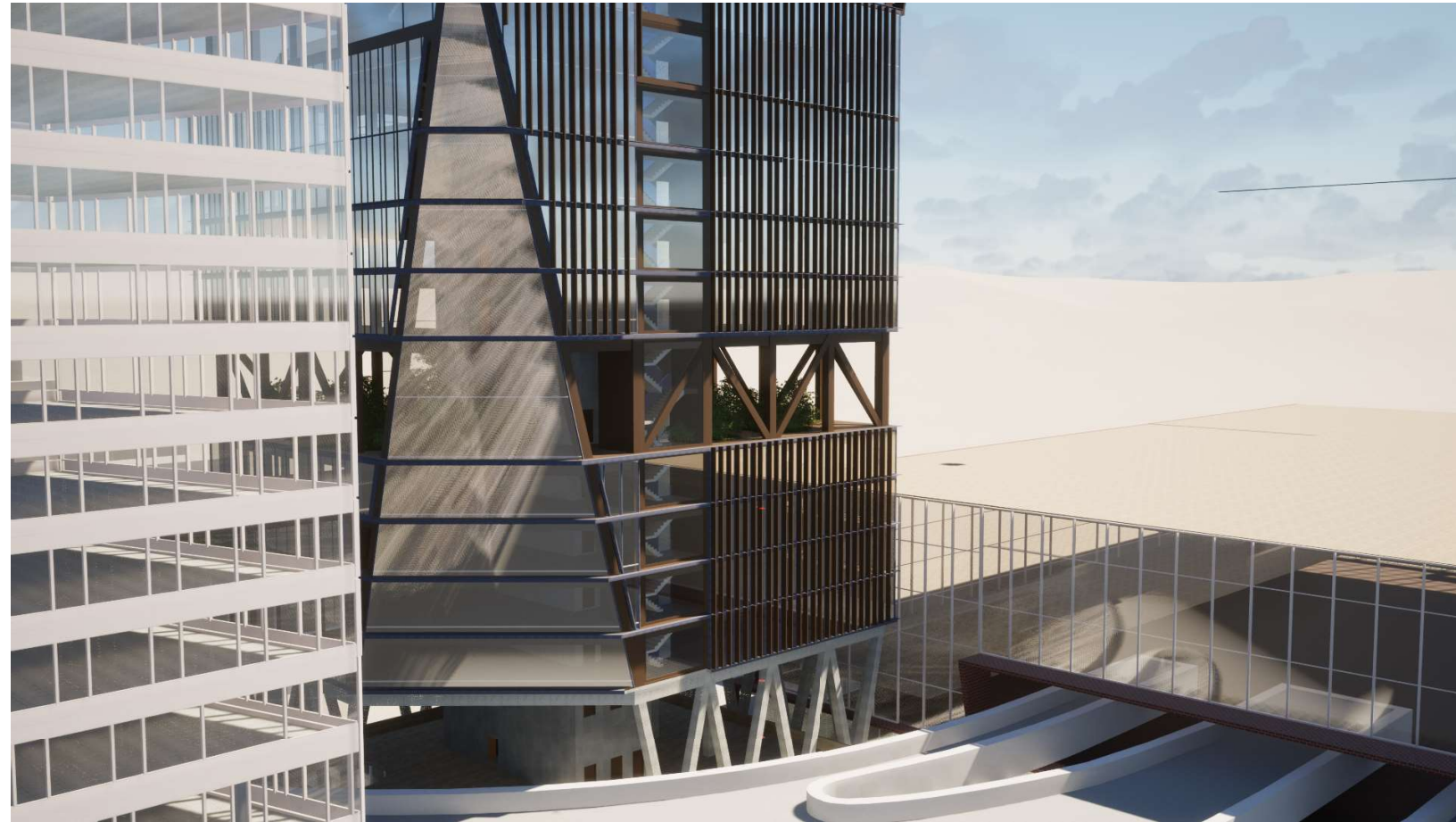
Office space

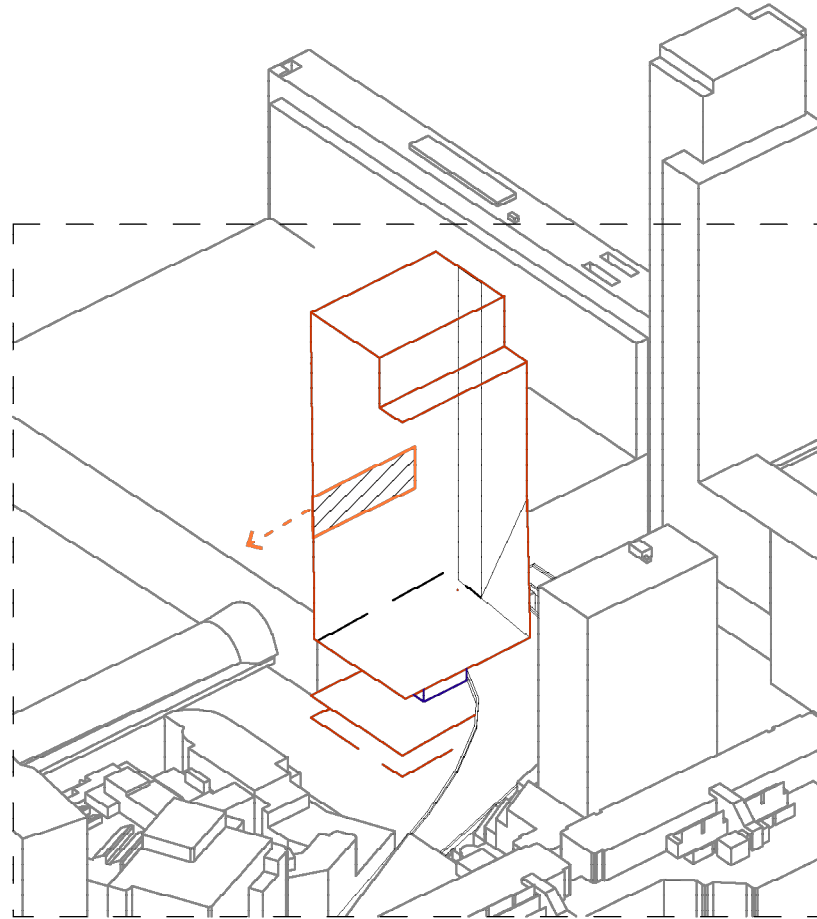


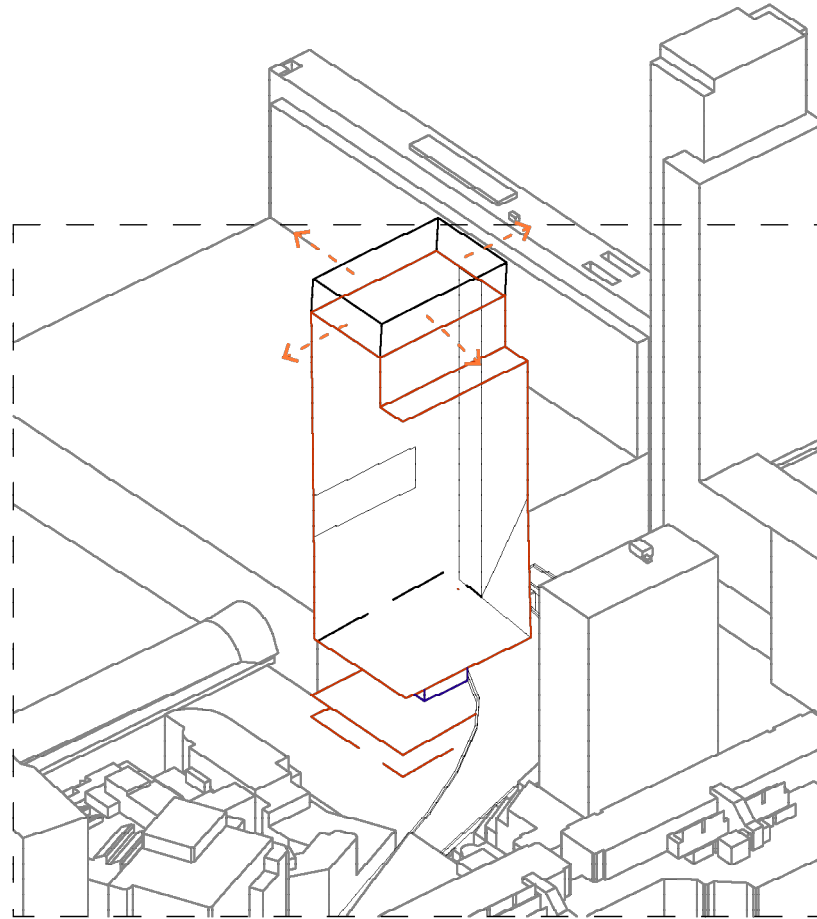










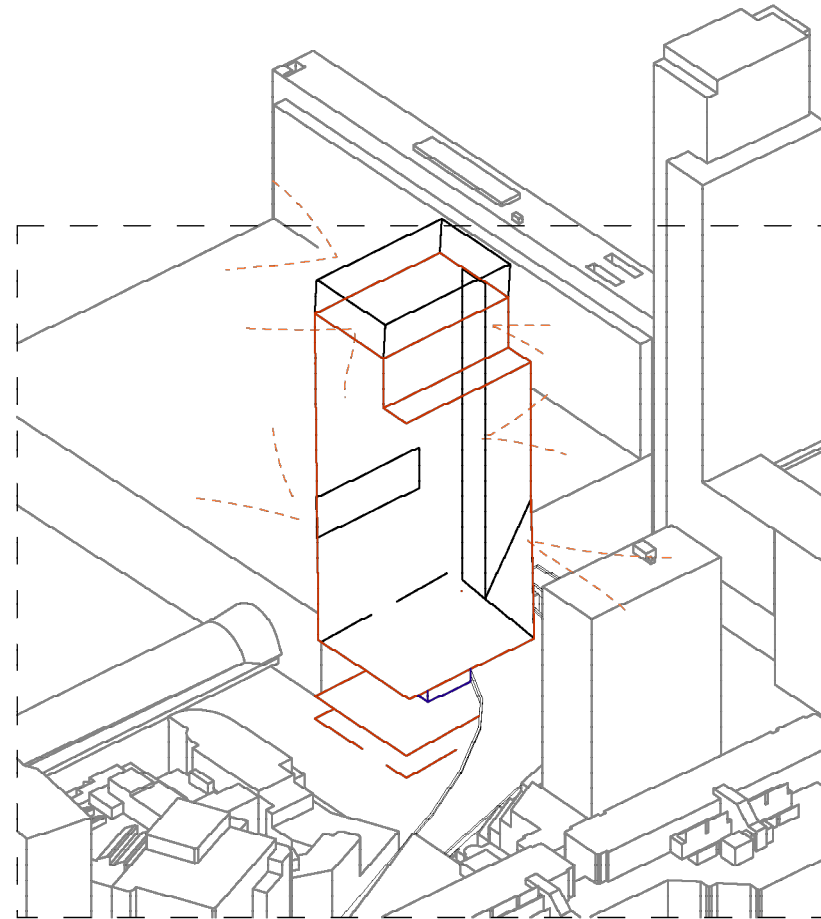




Sky garden



Sky garden



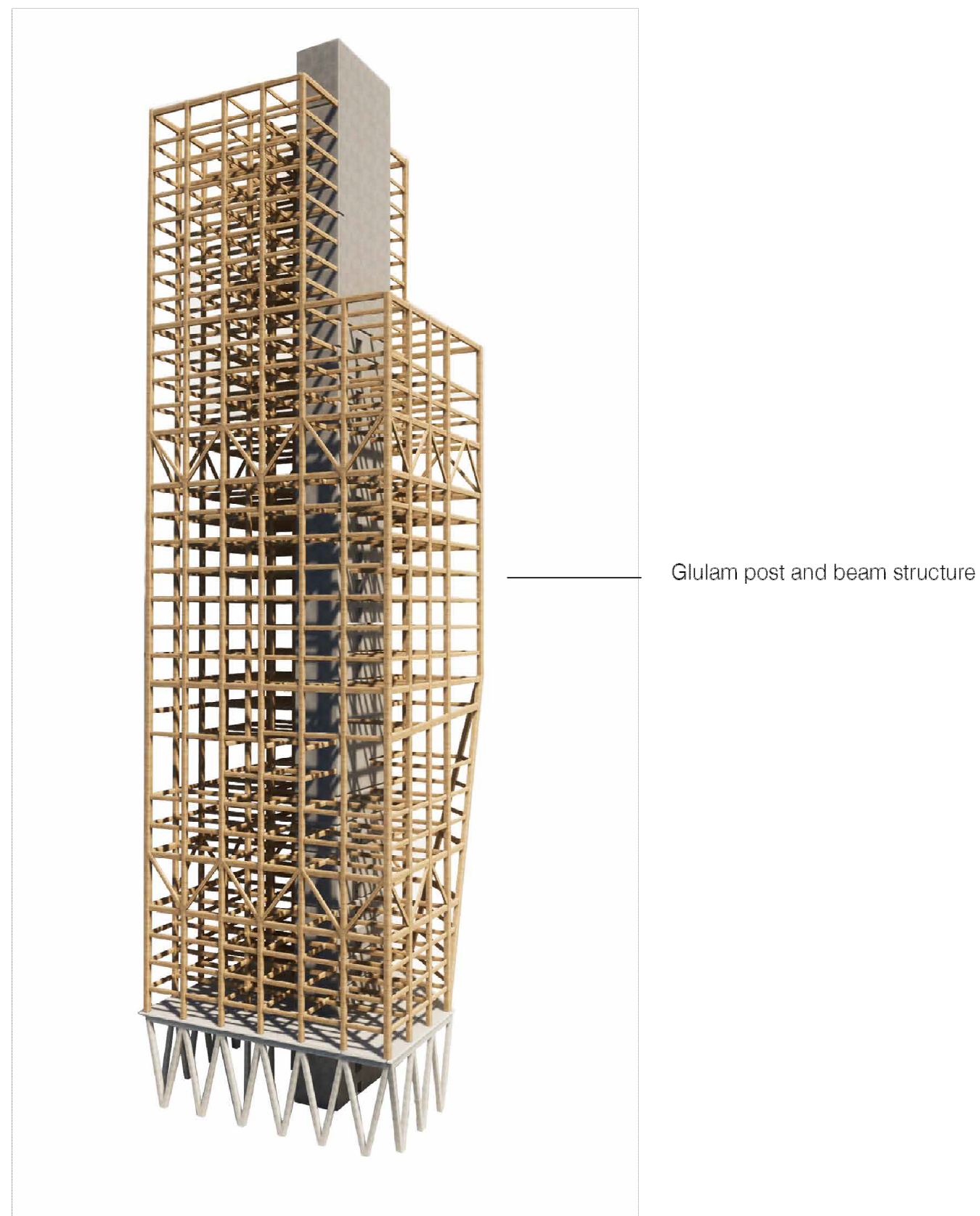
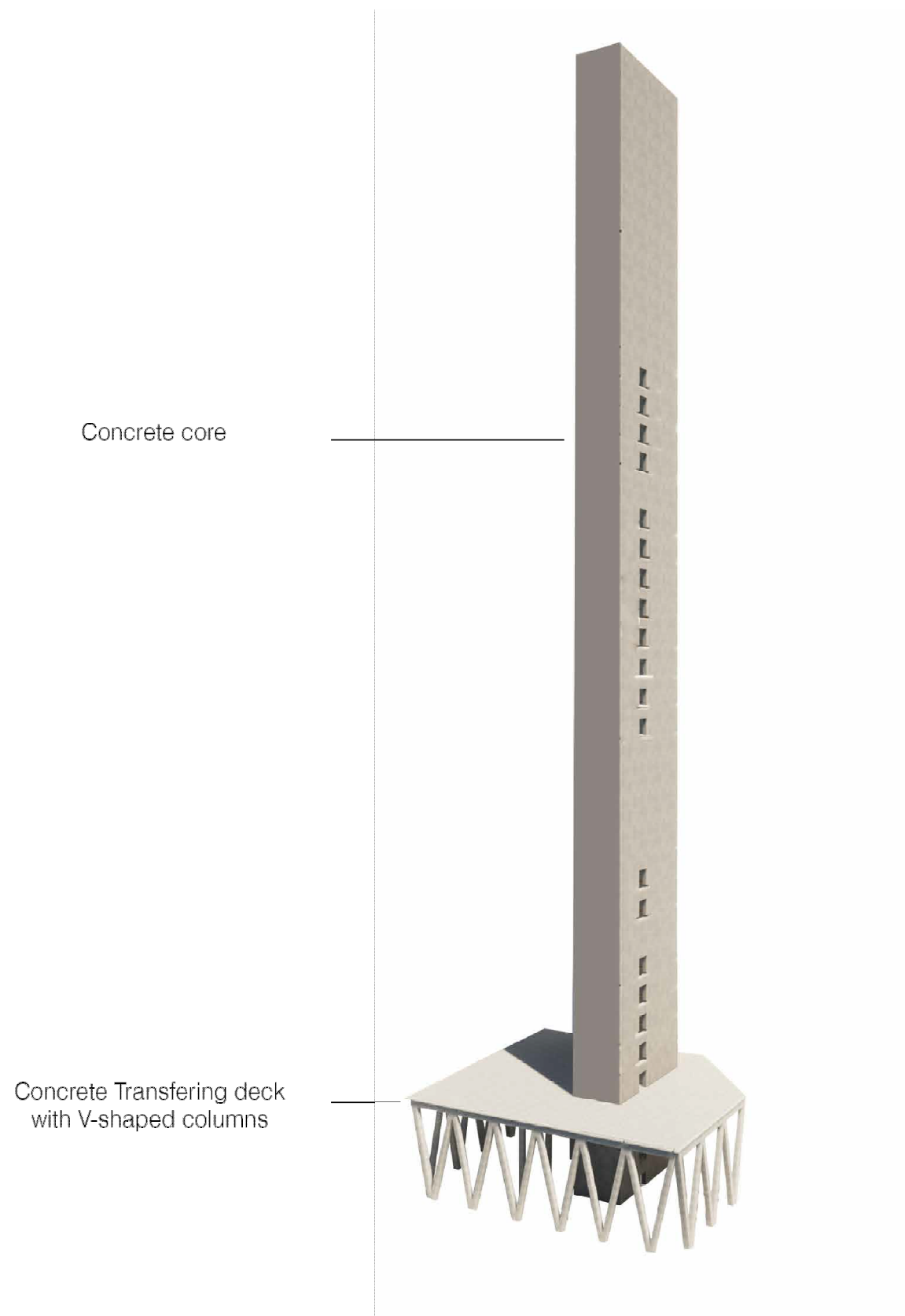
Structure



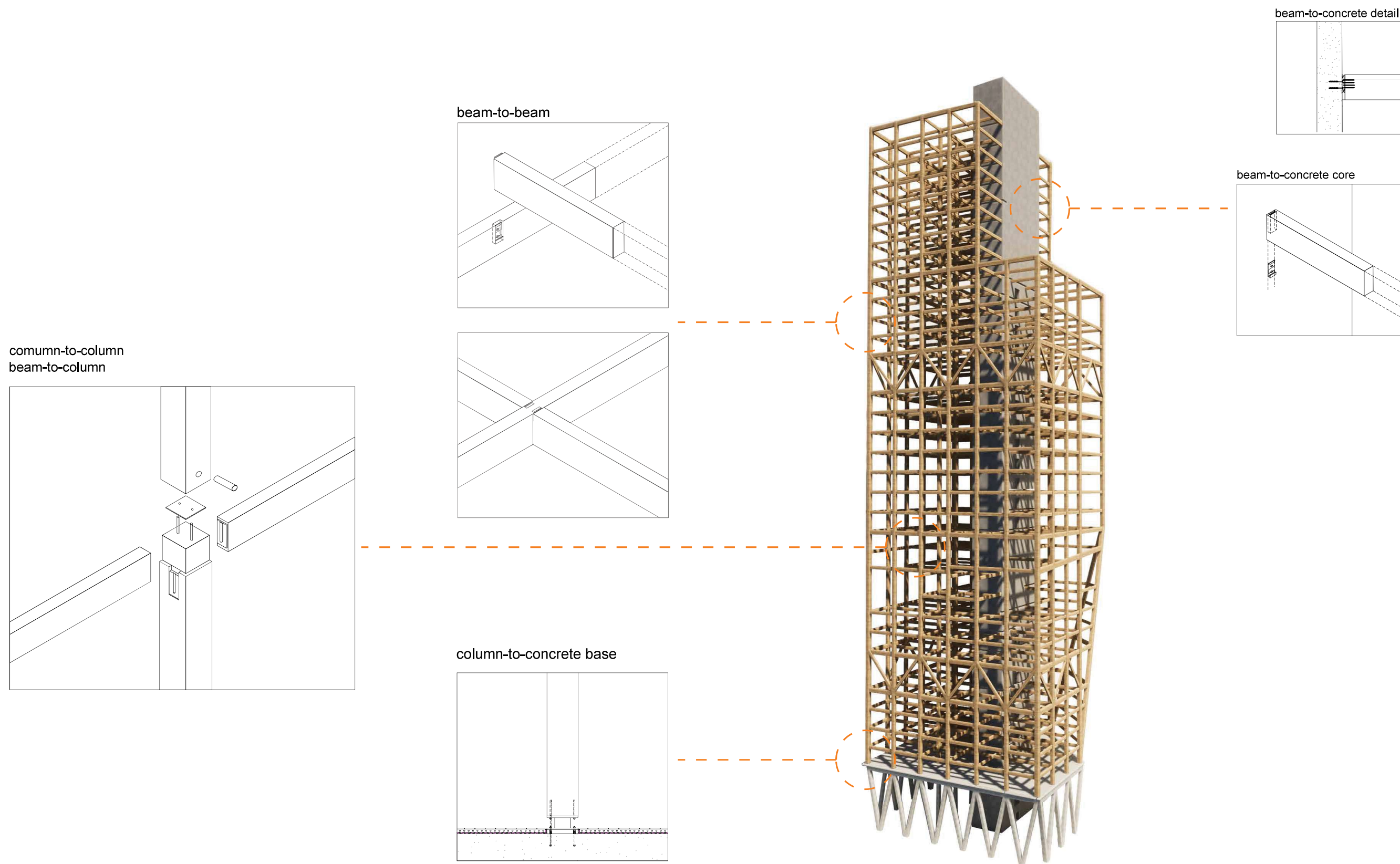
CLT floor slabs

Glulam columns and beams

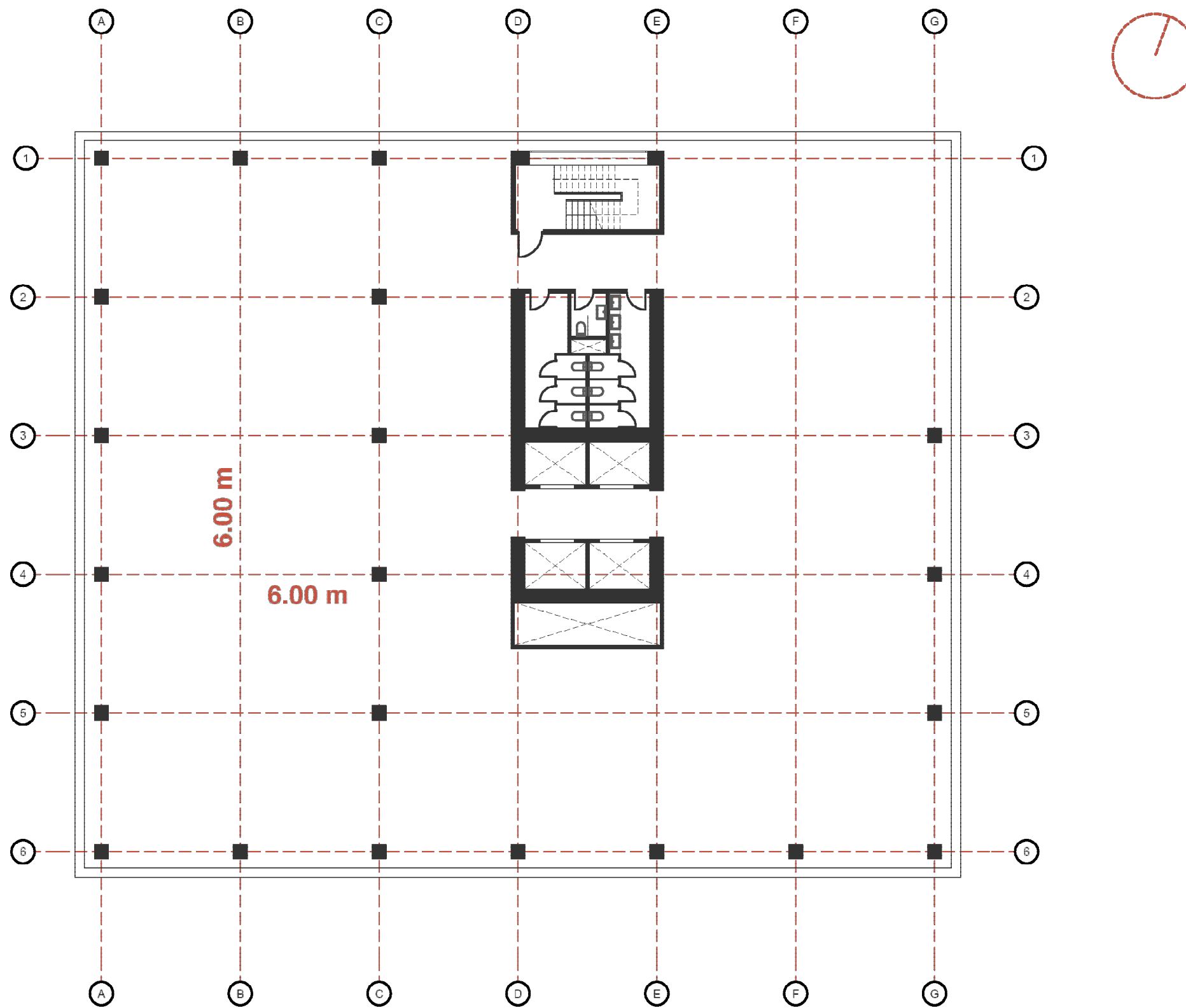
Concrete core and transferring
deck



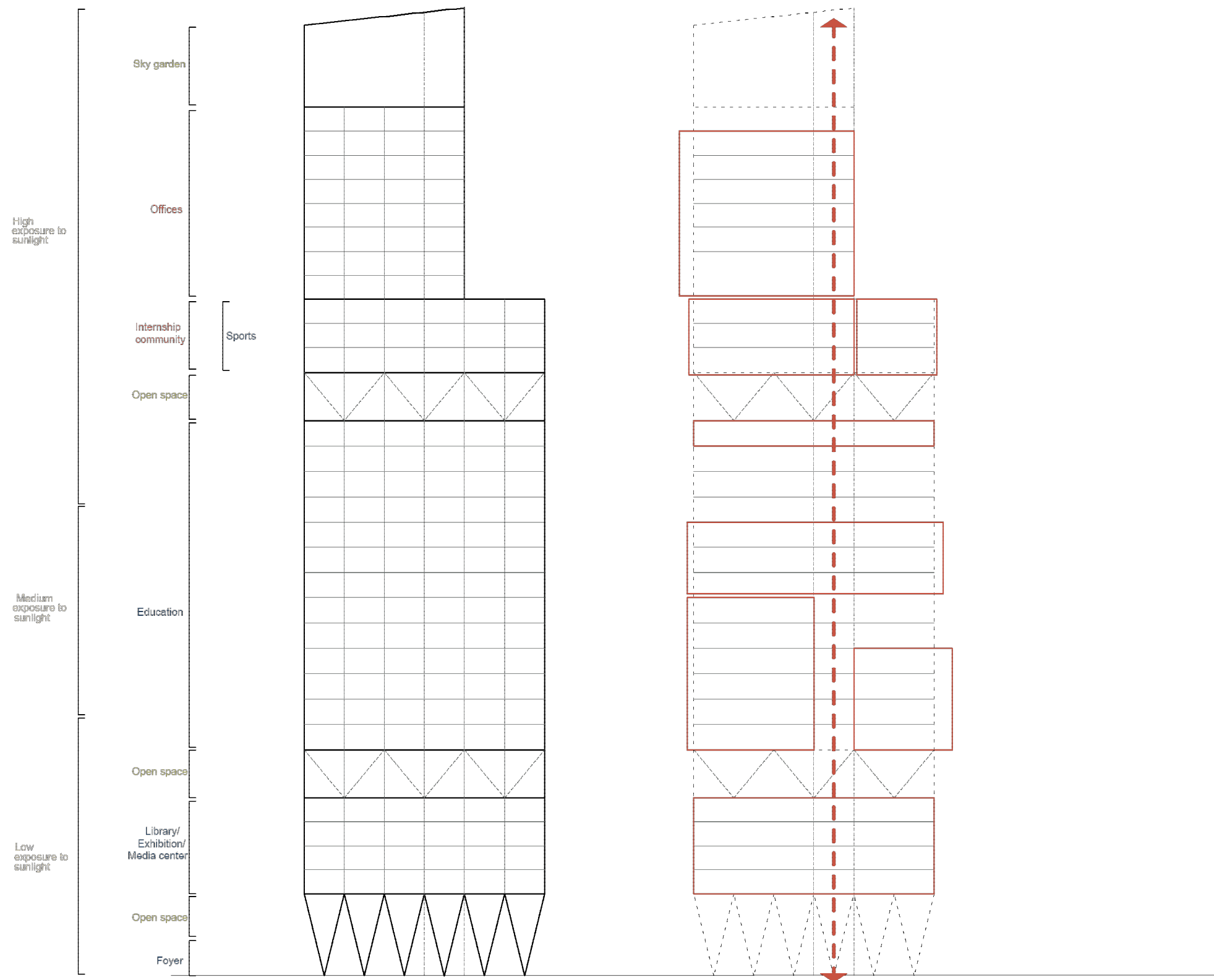
Structural scheme



Connections



Typical floorplan



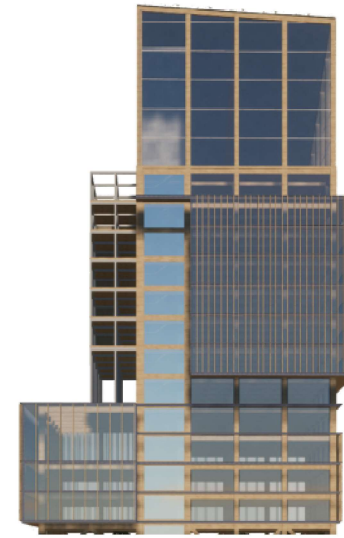
Facade strategy



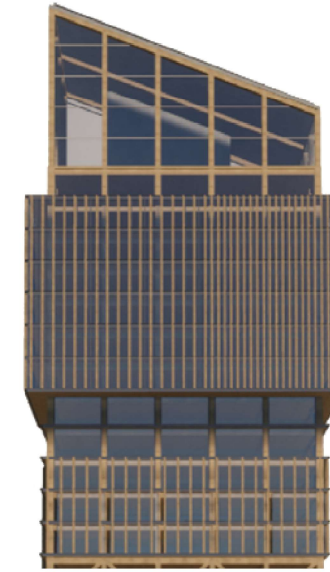
South elevation



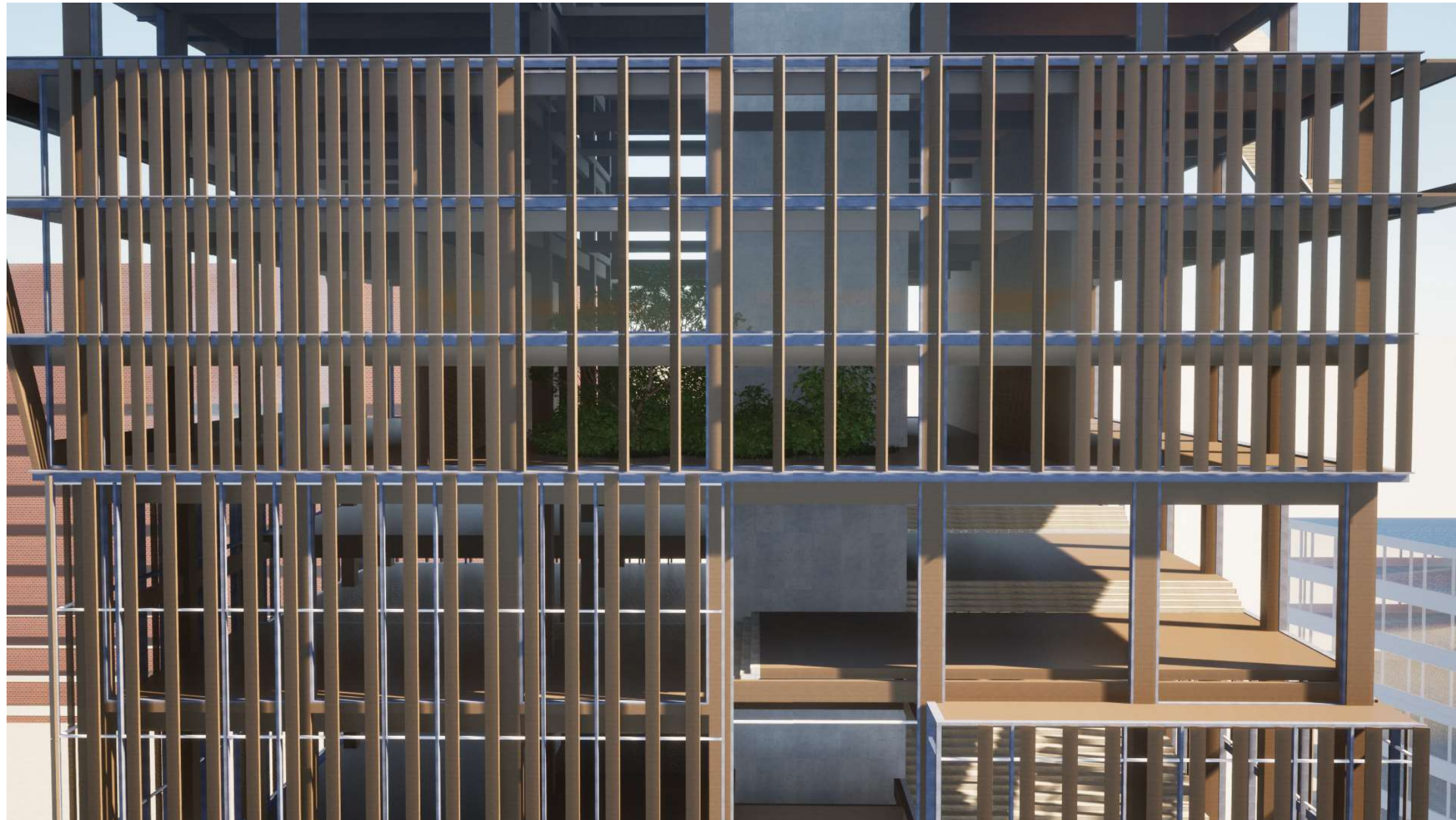
East elevation



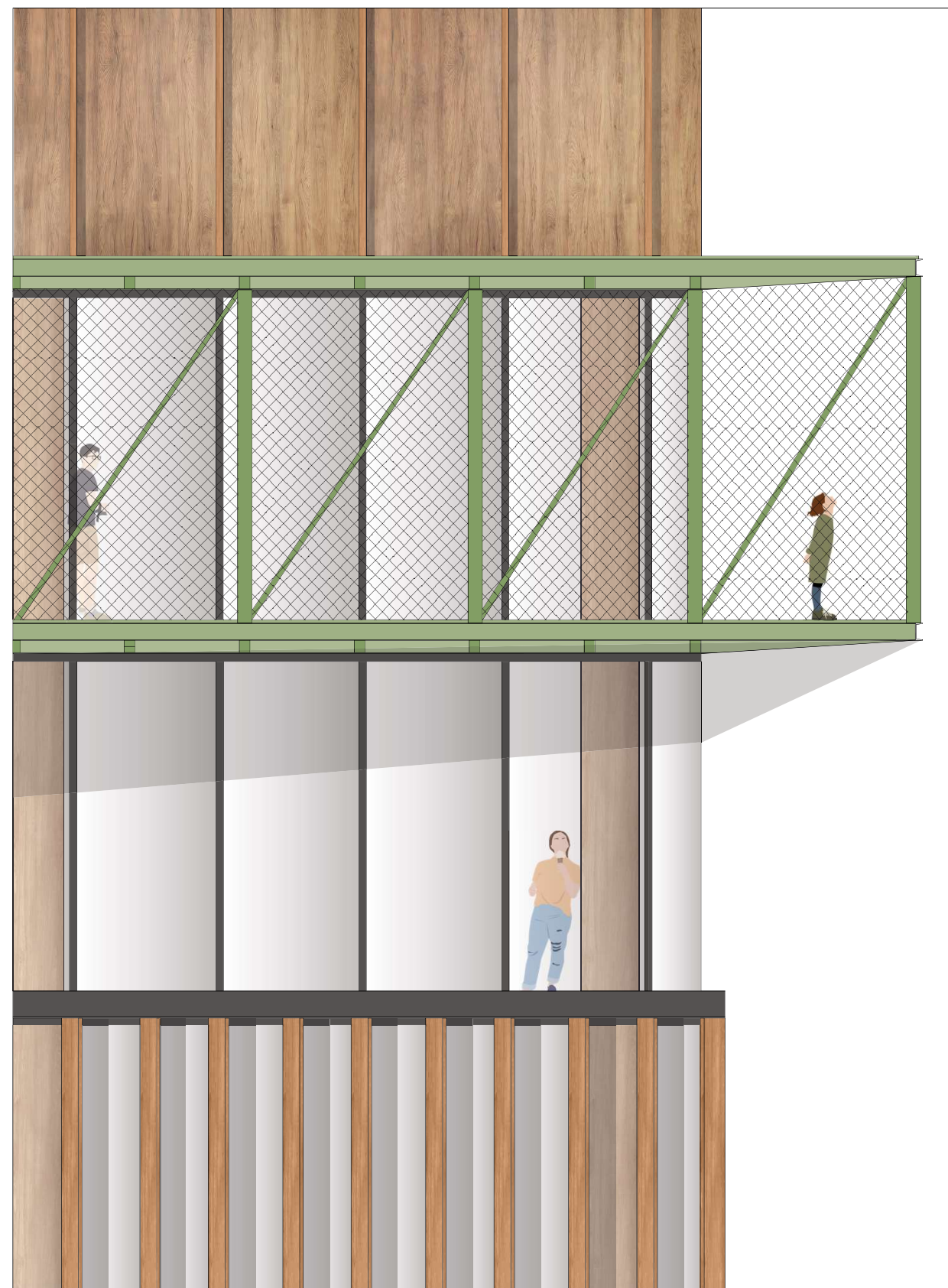
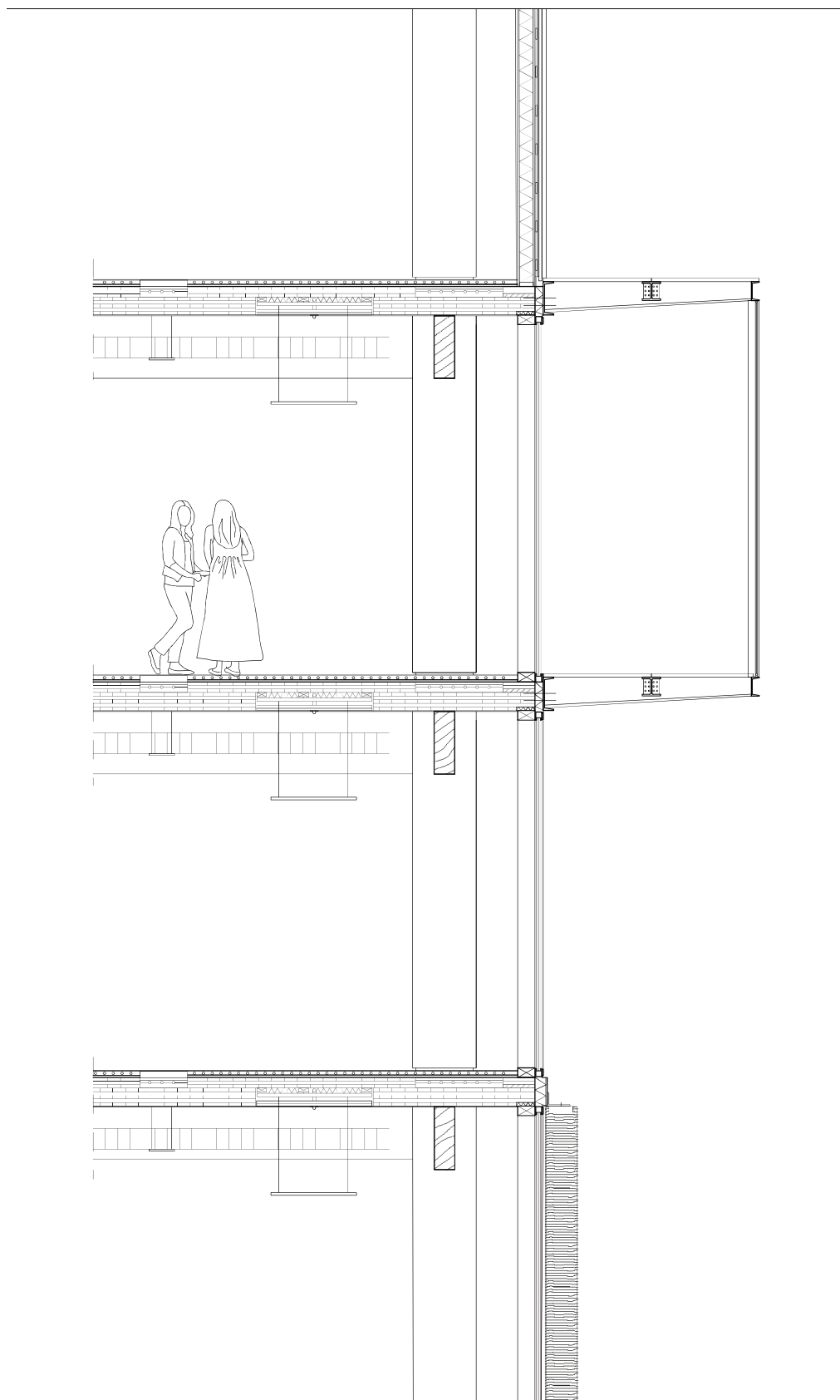
North elevation



West elevation



Accoya wood louvers



Facade fragment

Flooring

- Hardwood floor planks
- Heated screed
- Membrane
- Sound insulation
- Membrane
- Cross laminated timber, three layers 99 mm
- Cross laminated timber, five layers 169 mm

Installation space

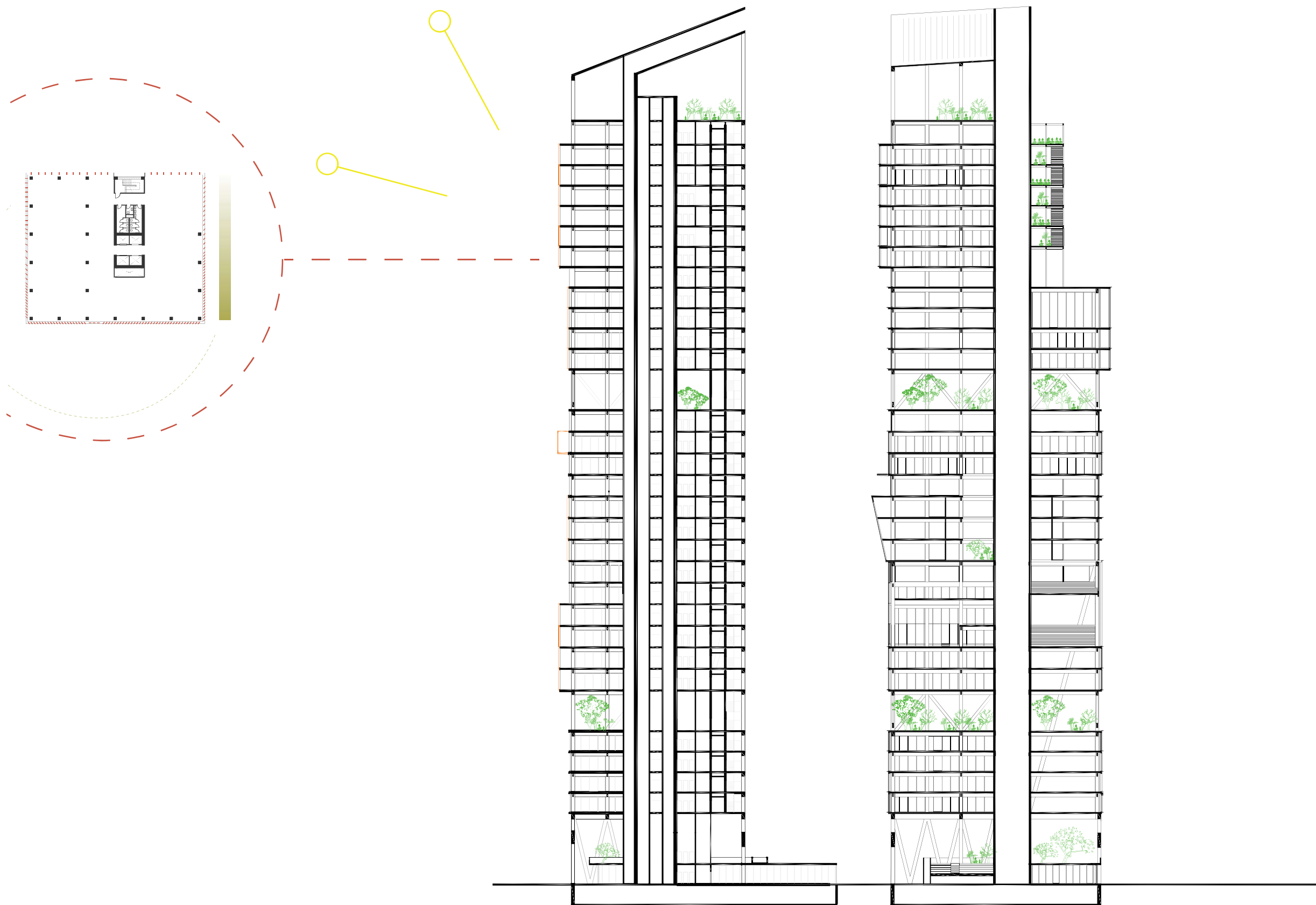
- Fibreglass panel 2x 25 mm
- Sound insulation
- Installation conduits
- Plywood board 2x 13 mm
- Sprinkler system
- Electrical system conduits



Facade

- Triple-glazed thermally broken curtain wall
- LVL mullion
- Glued laminated timber column 610/610
- L-shape Aluminium Profile
- Thermal insulation, mineral wool 80 mm m
- Vapour barrier
- Accoya wooden louvers

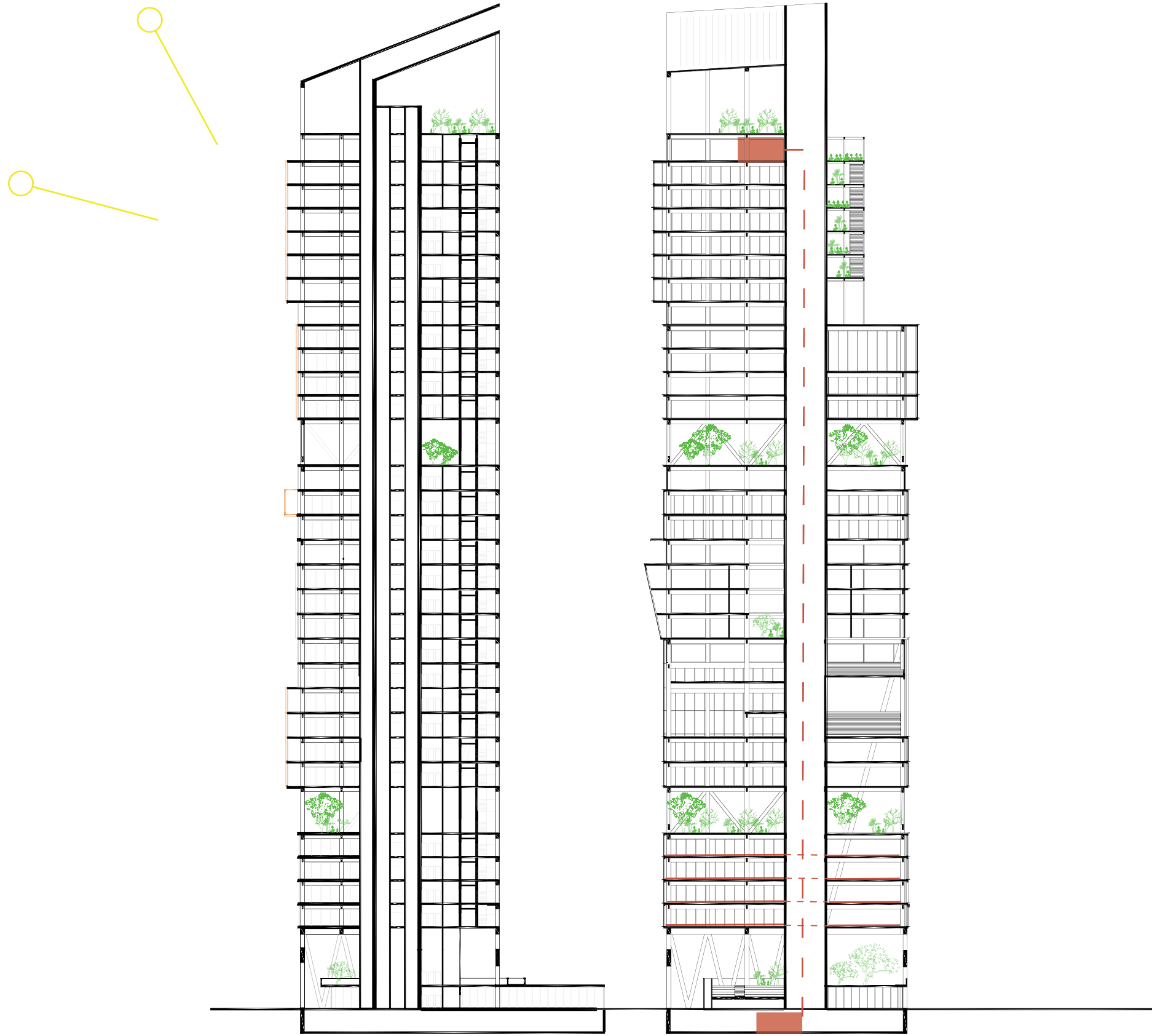
Facade detail



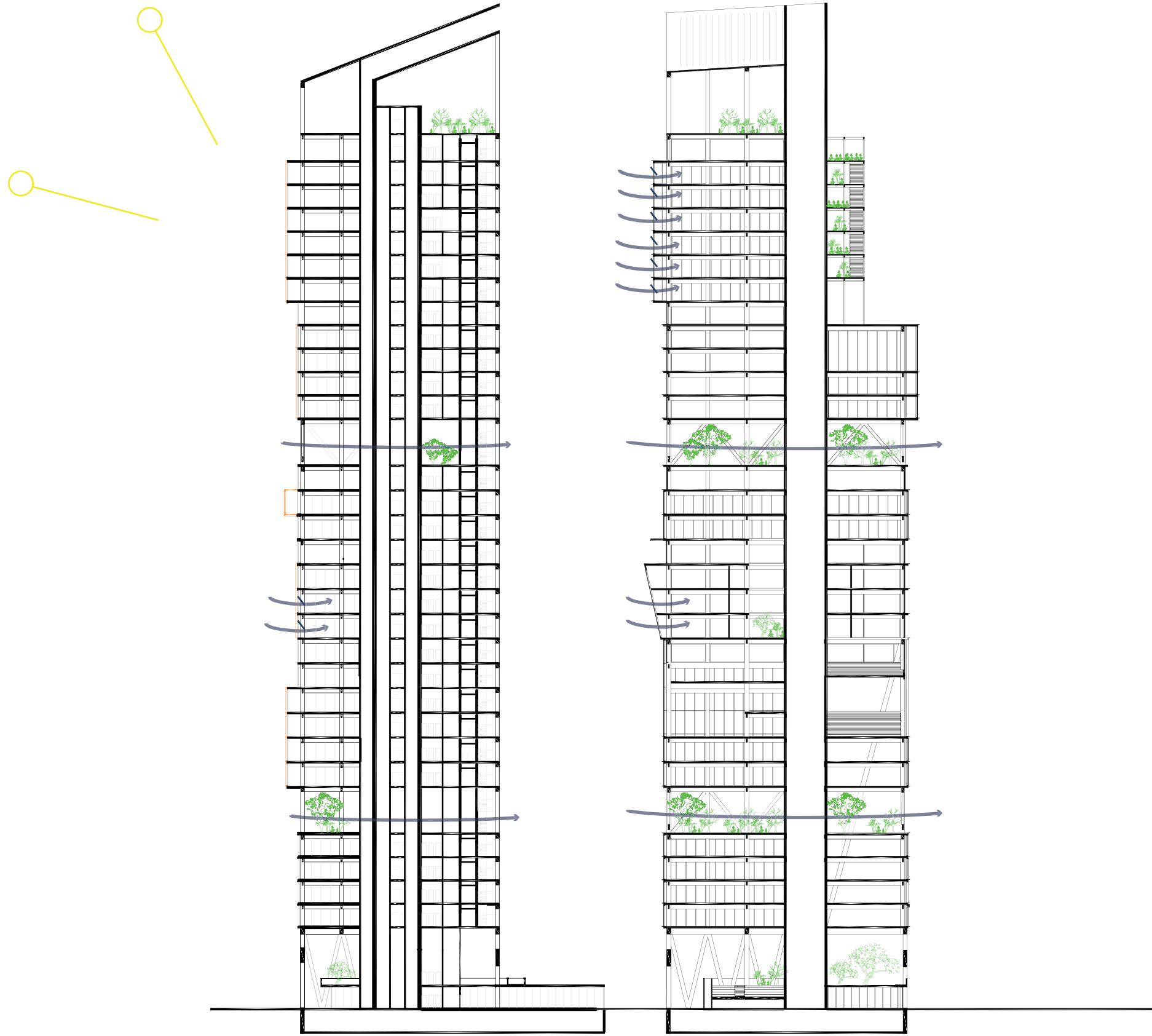
Sunshading louvers



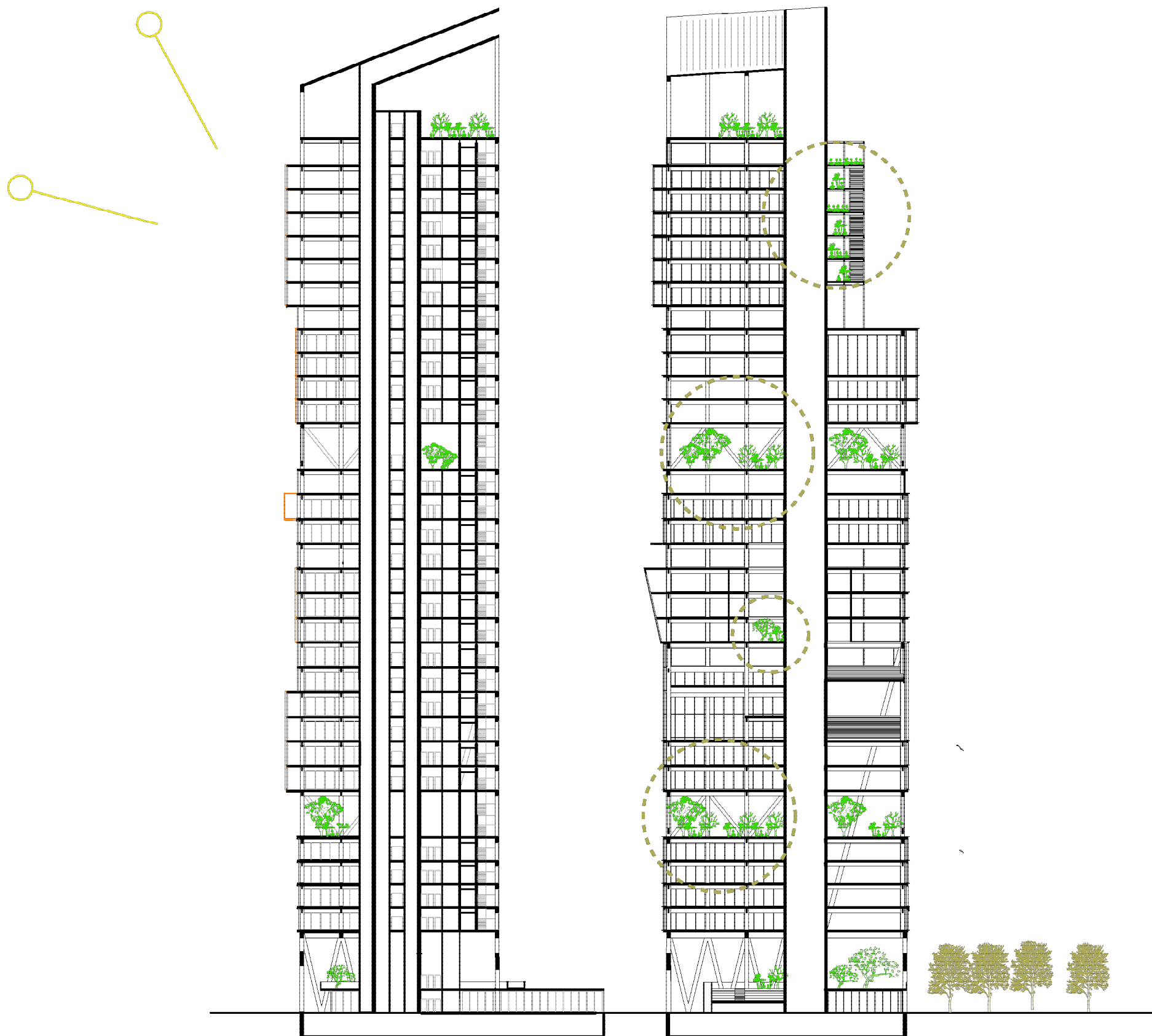
Mechanical ventilation with heat recovery



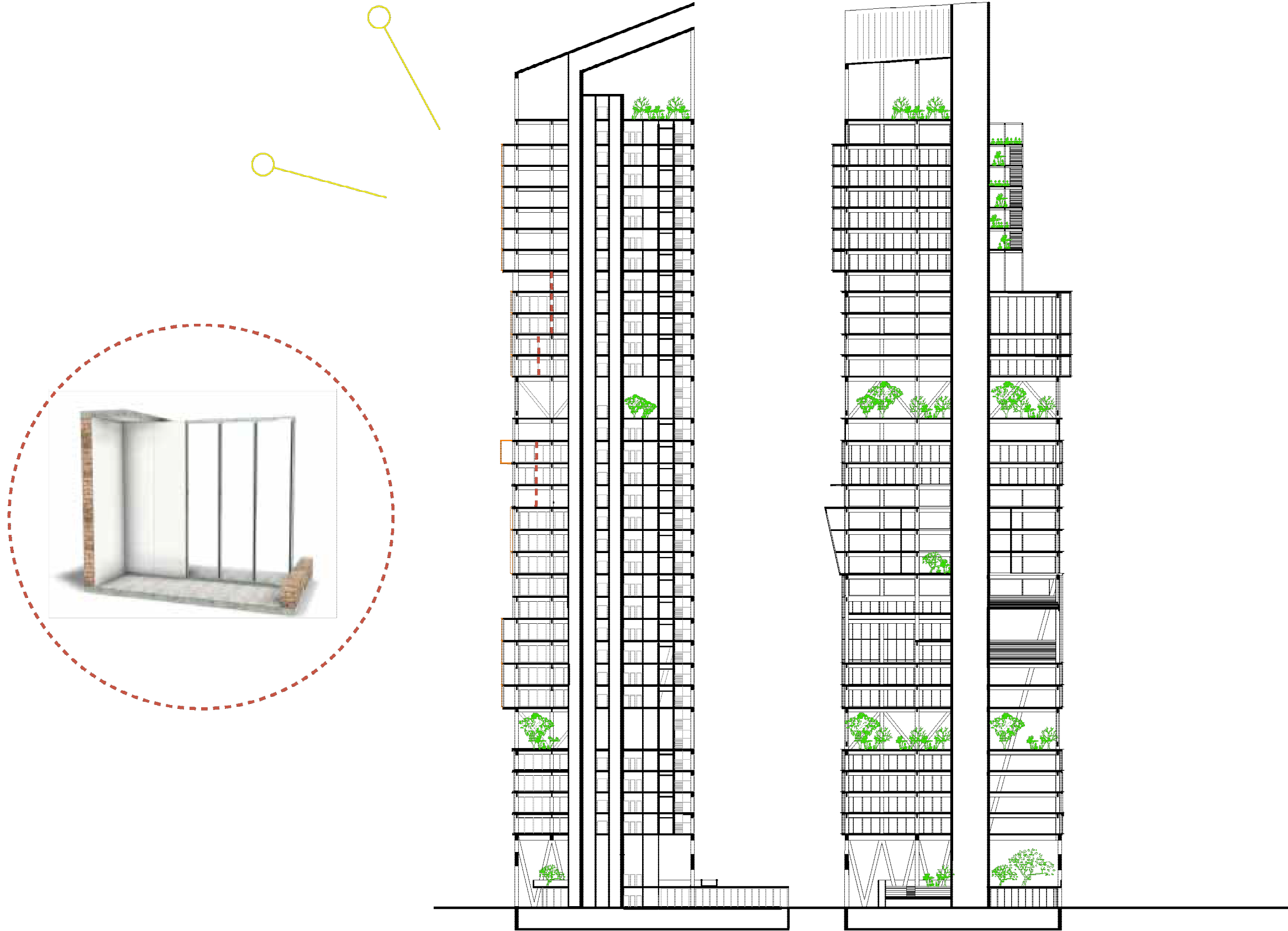
Underfloor heating



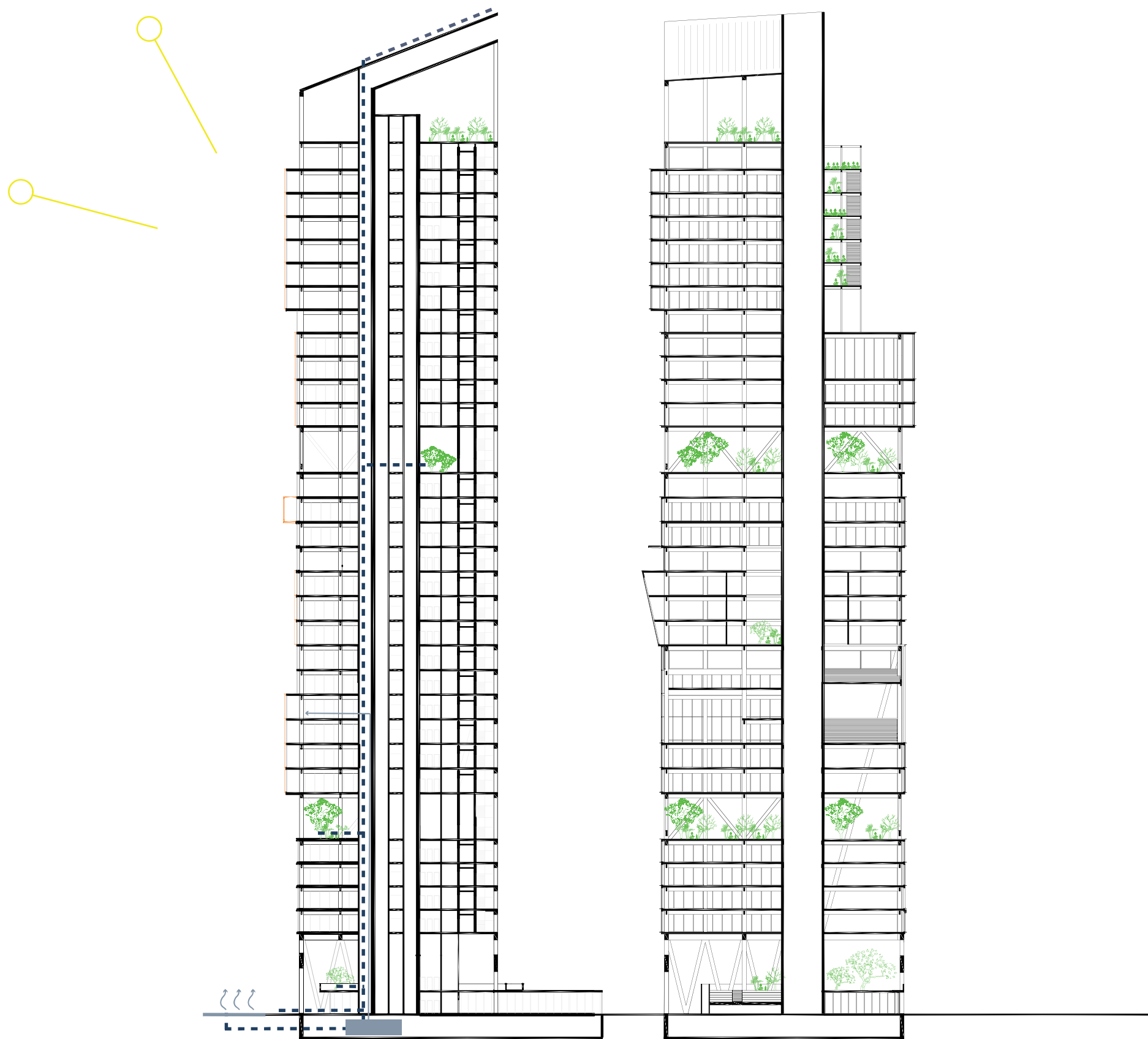
Natural ventilation



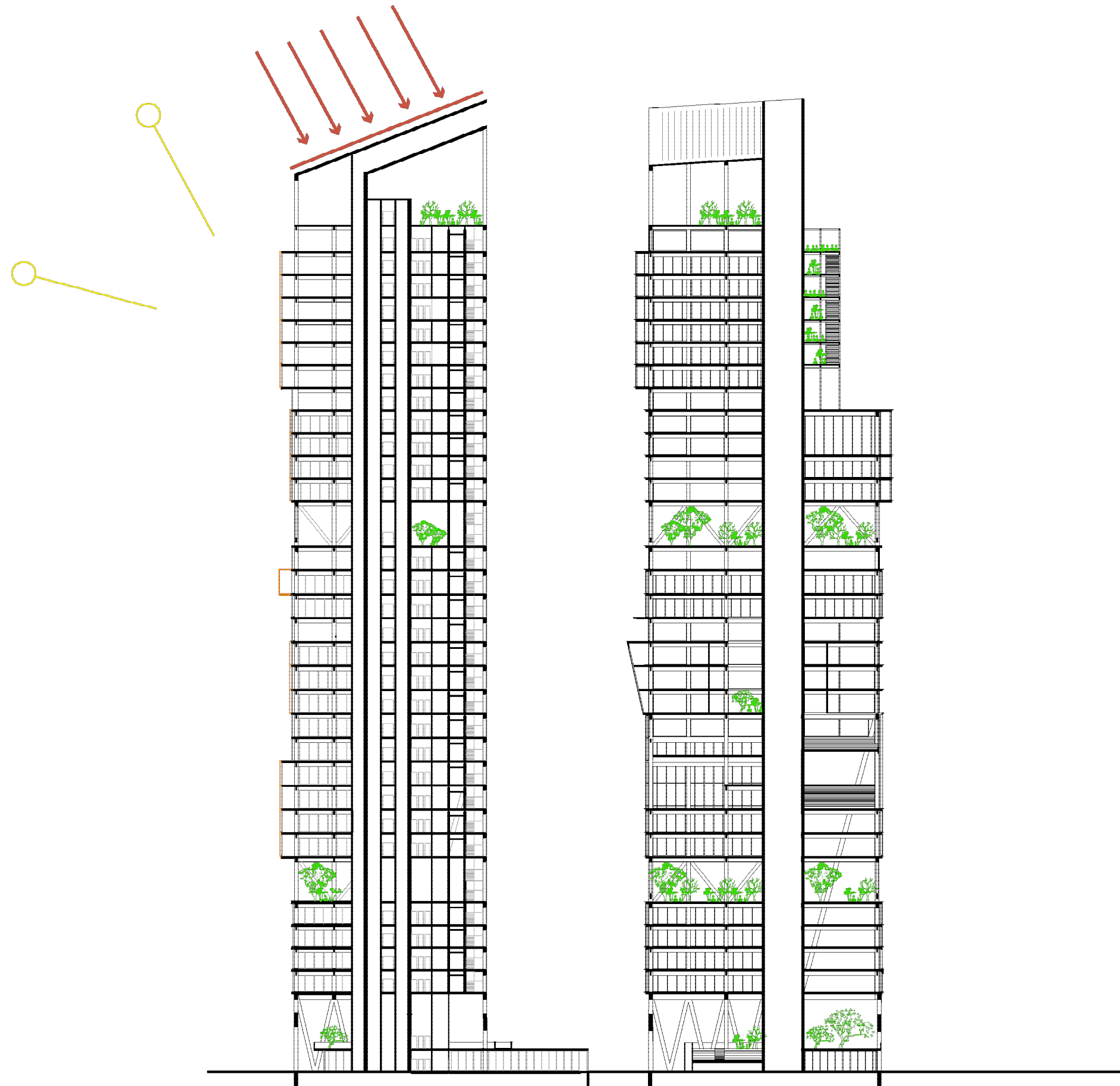
Biophilic design



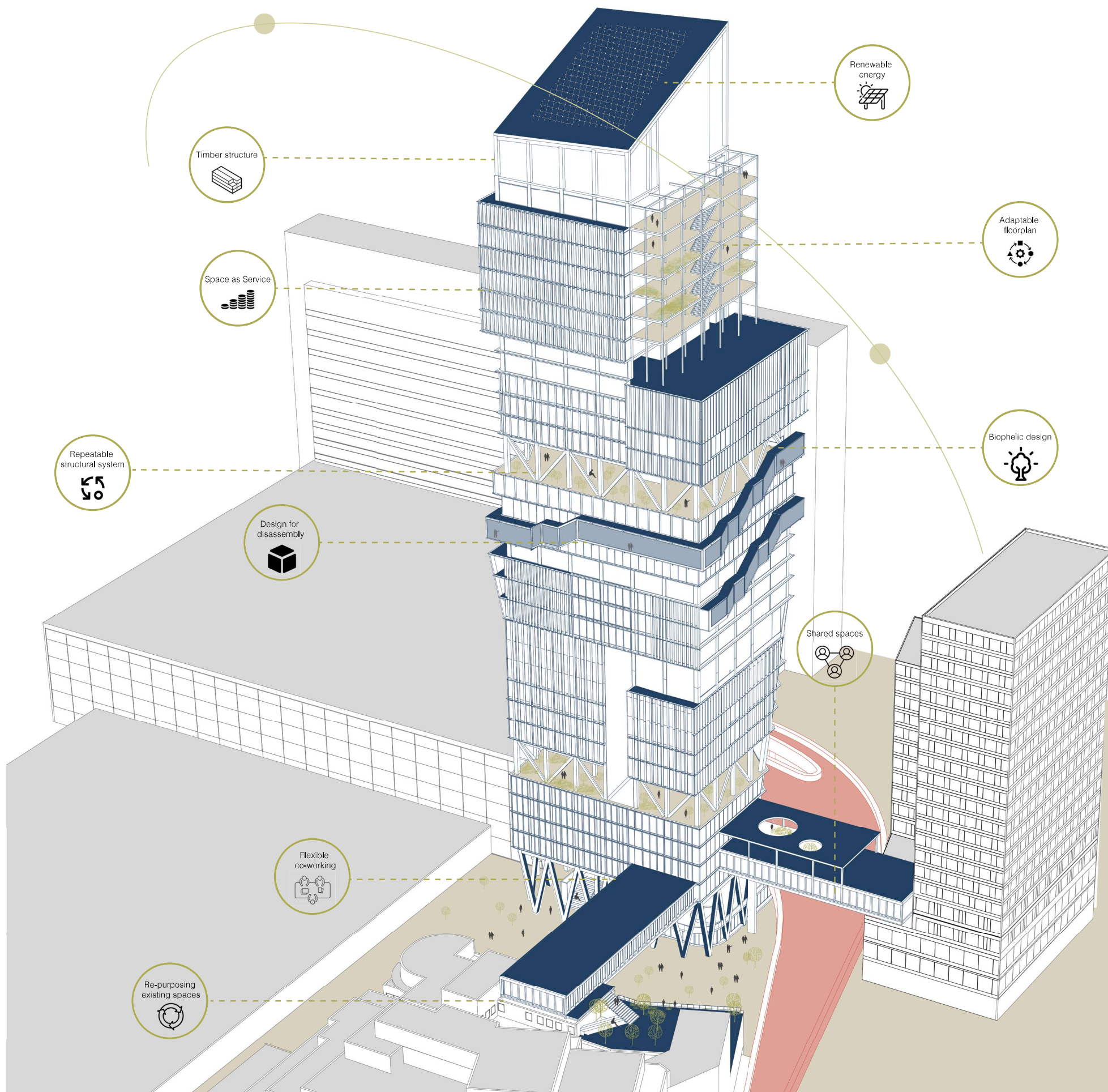
Adjustable partitions



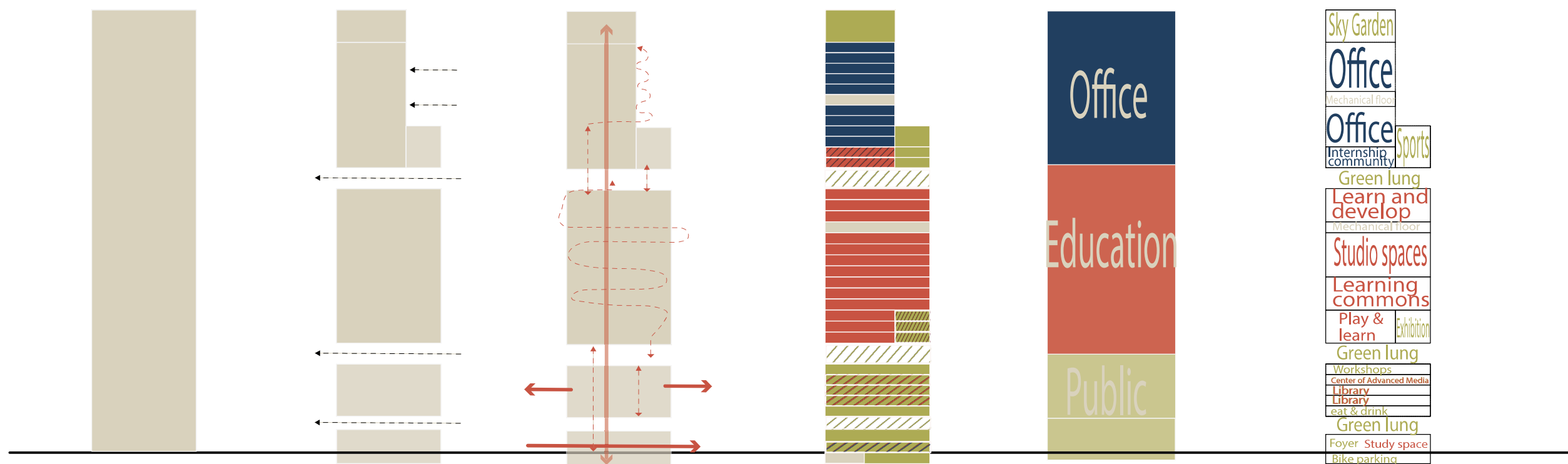
Rainwater collection



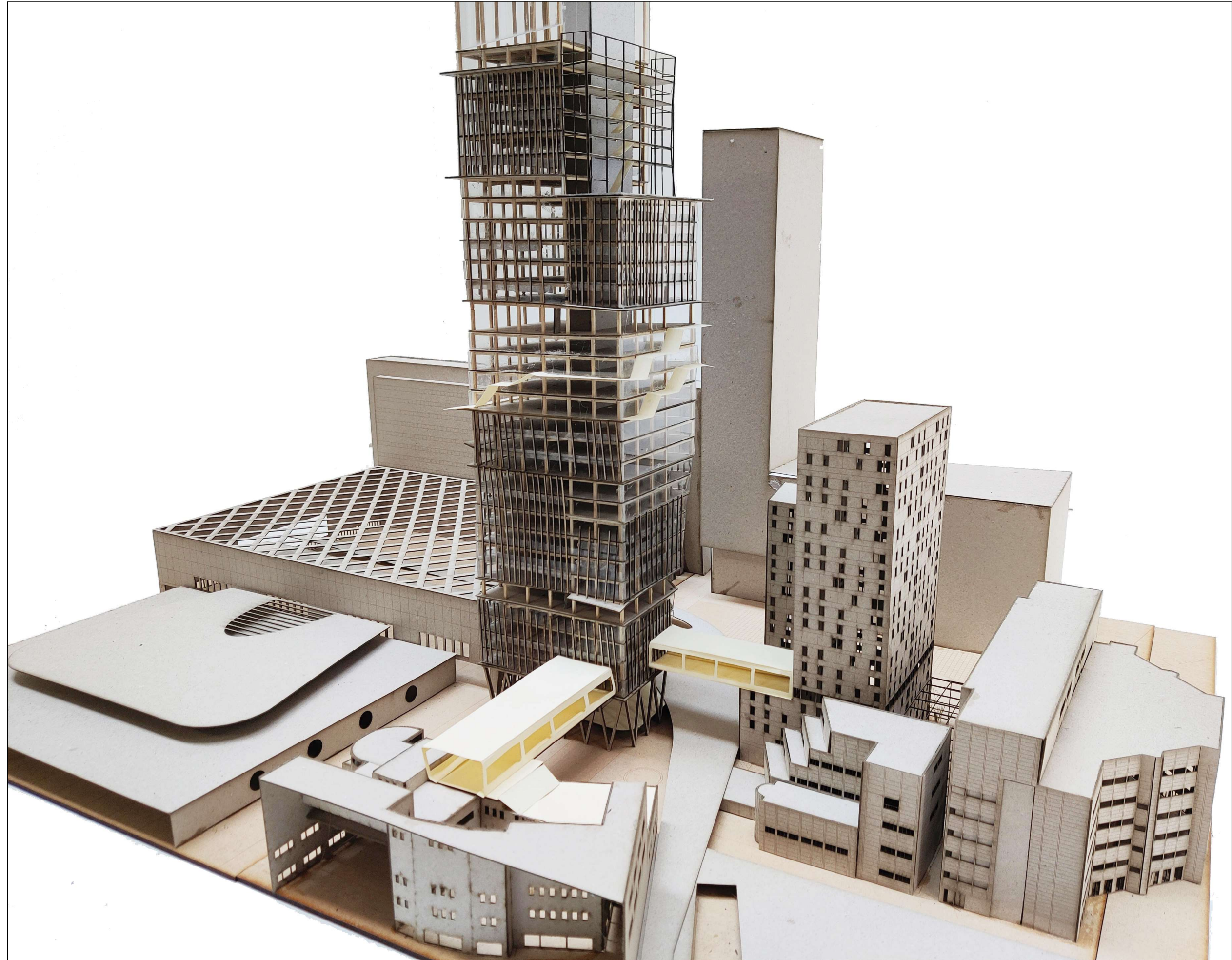
Solar panels



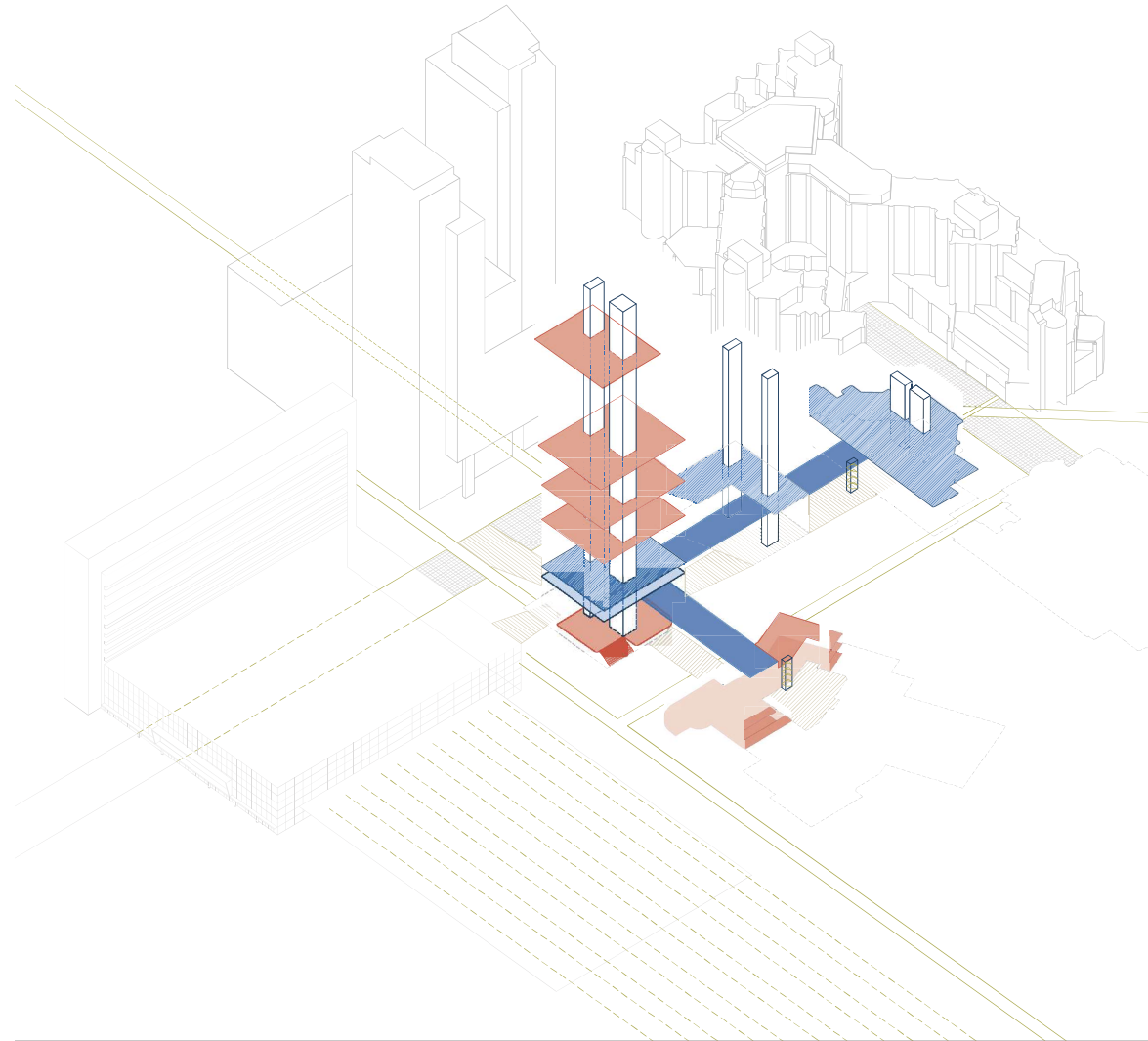
The building as an urban system



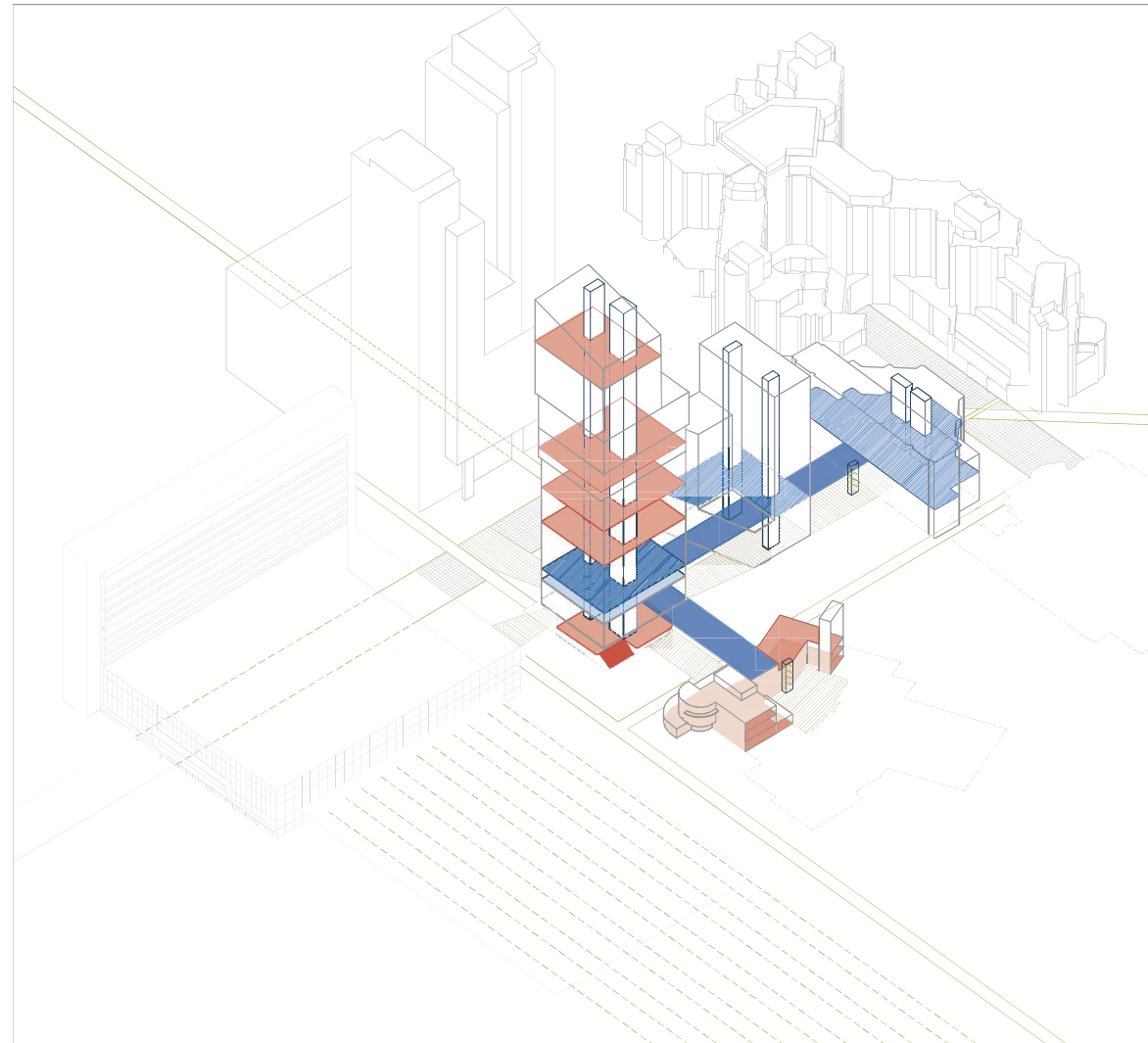
The building as an urban system



Model



Urban weaving



Urban weaving



Thank you!