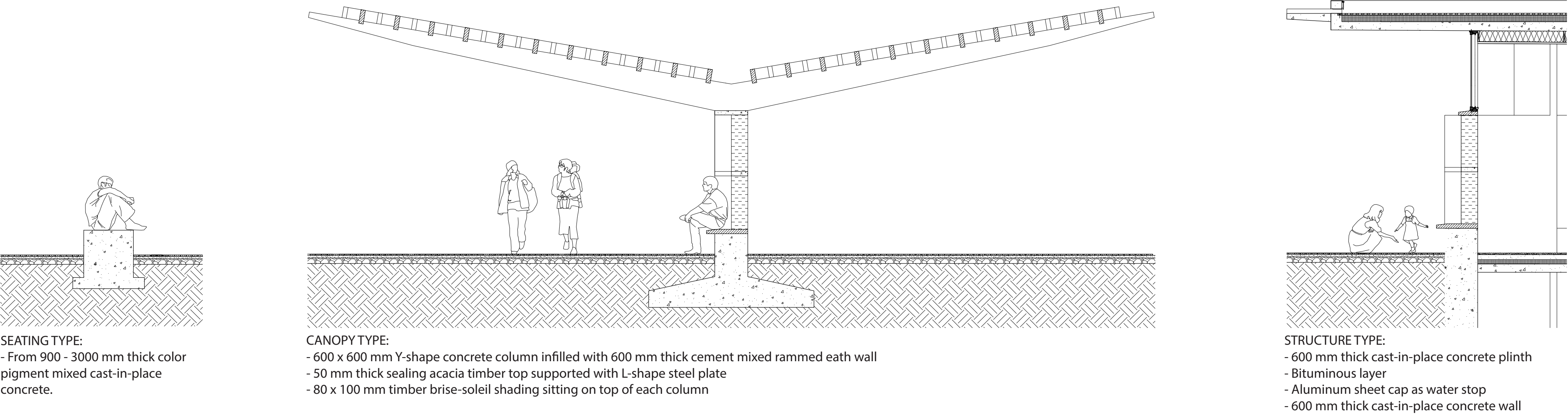
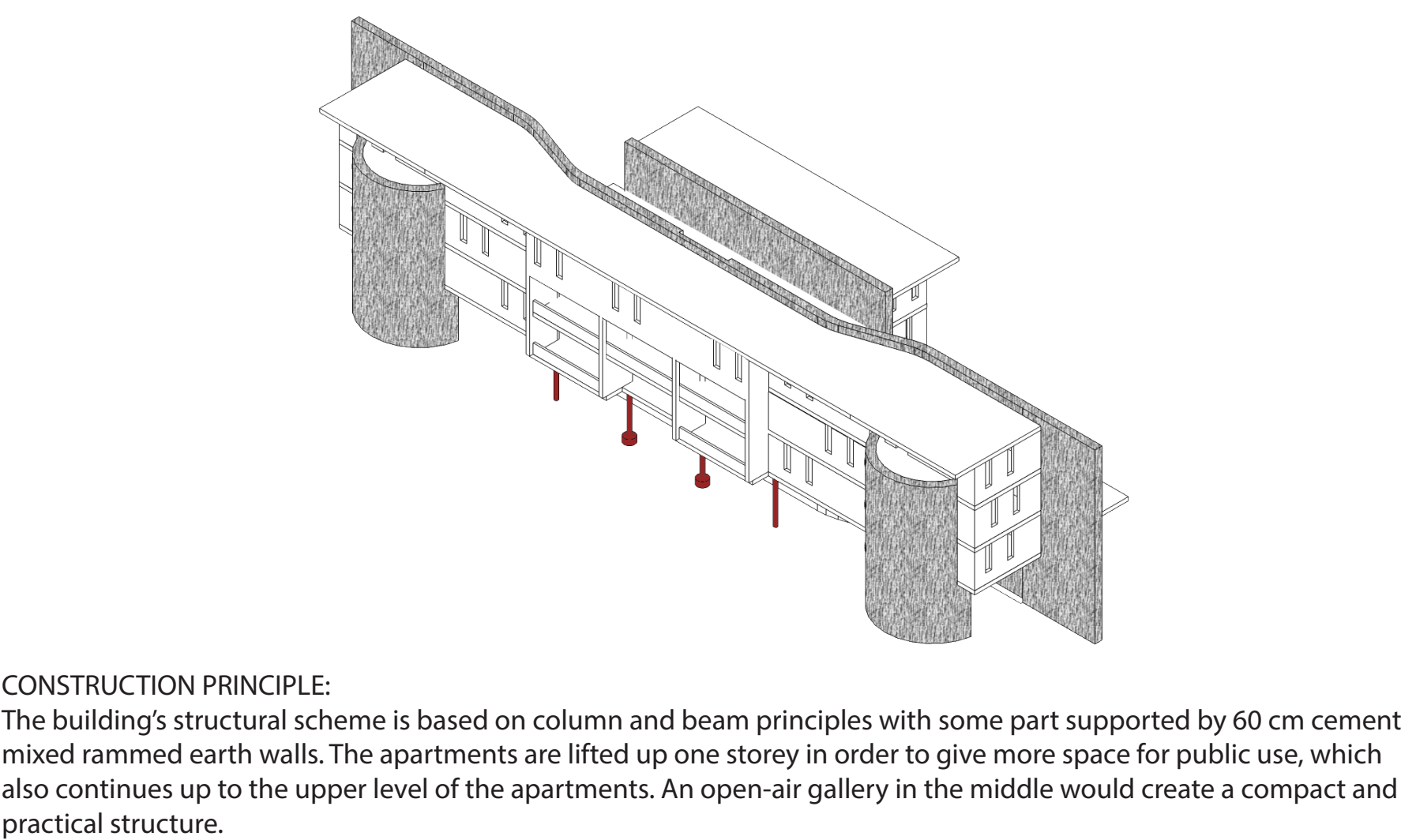


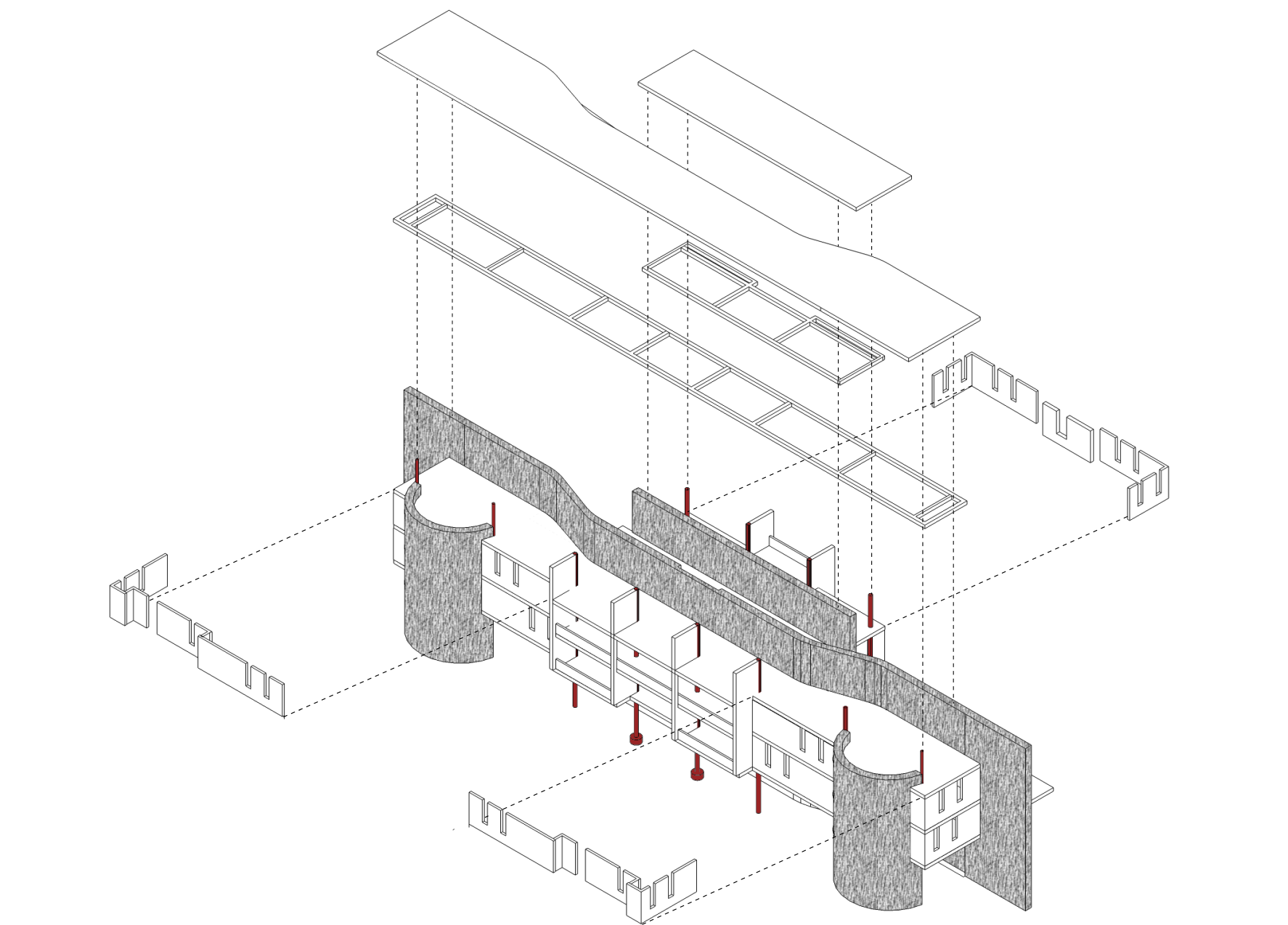
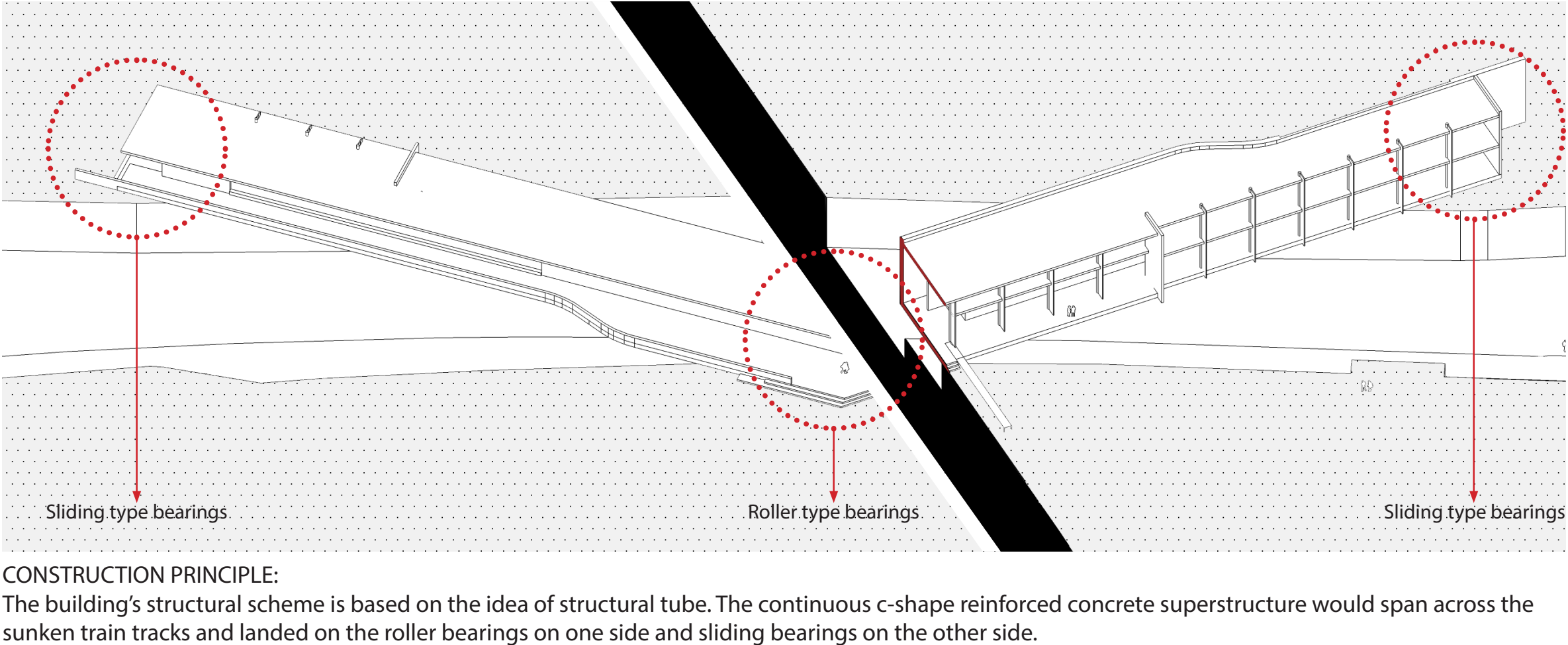
WALL PROTOTYPES
Construction



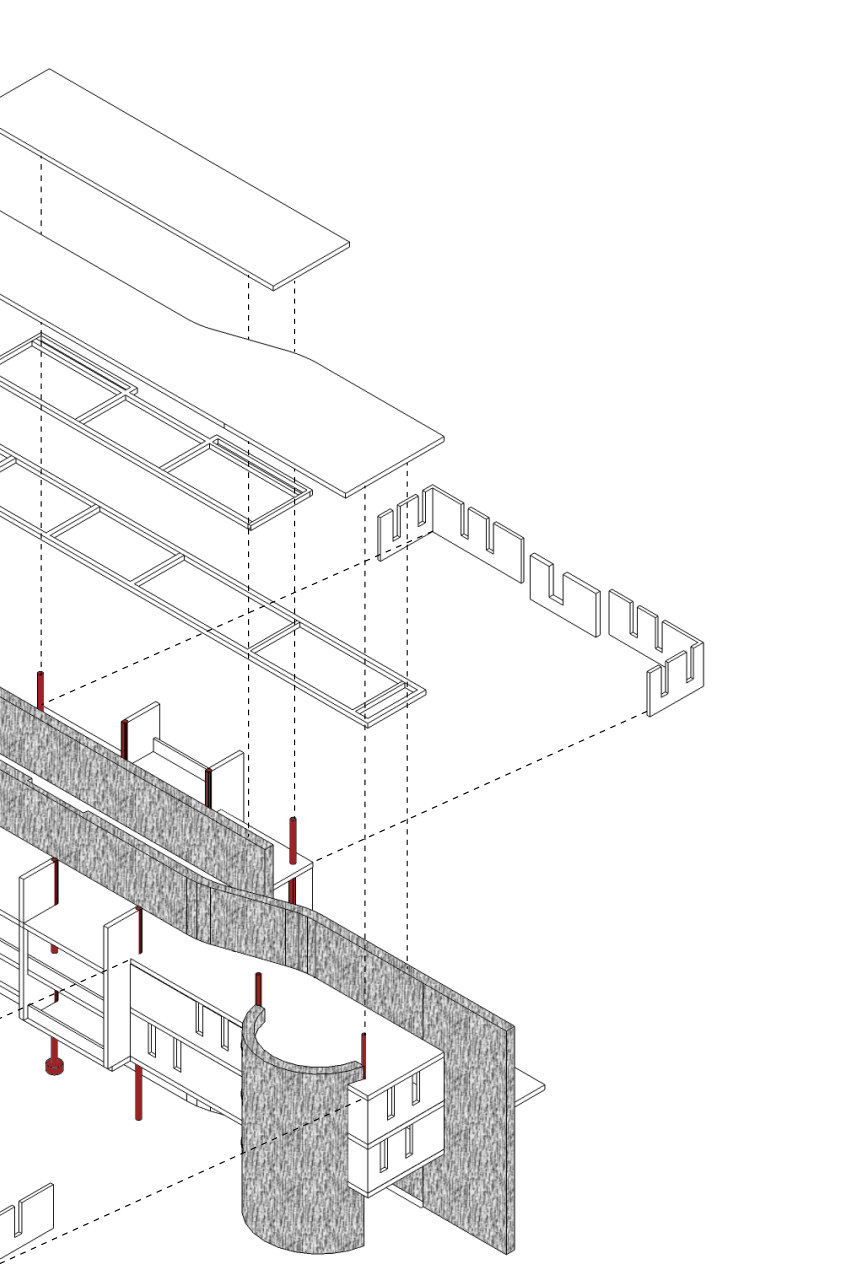
STRUCTURAL DIAGRAMS
Apartments



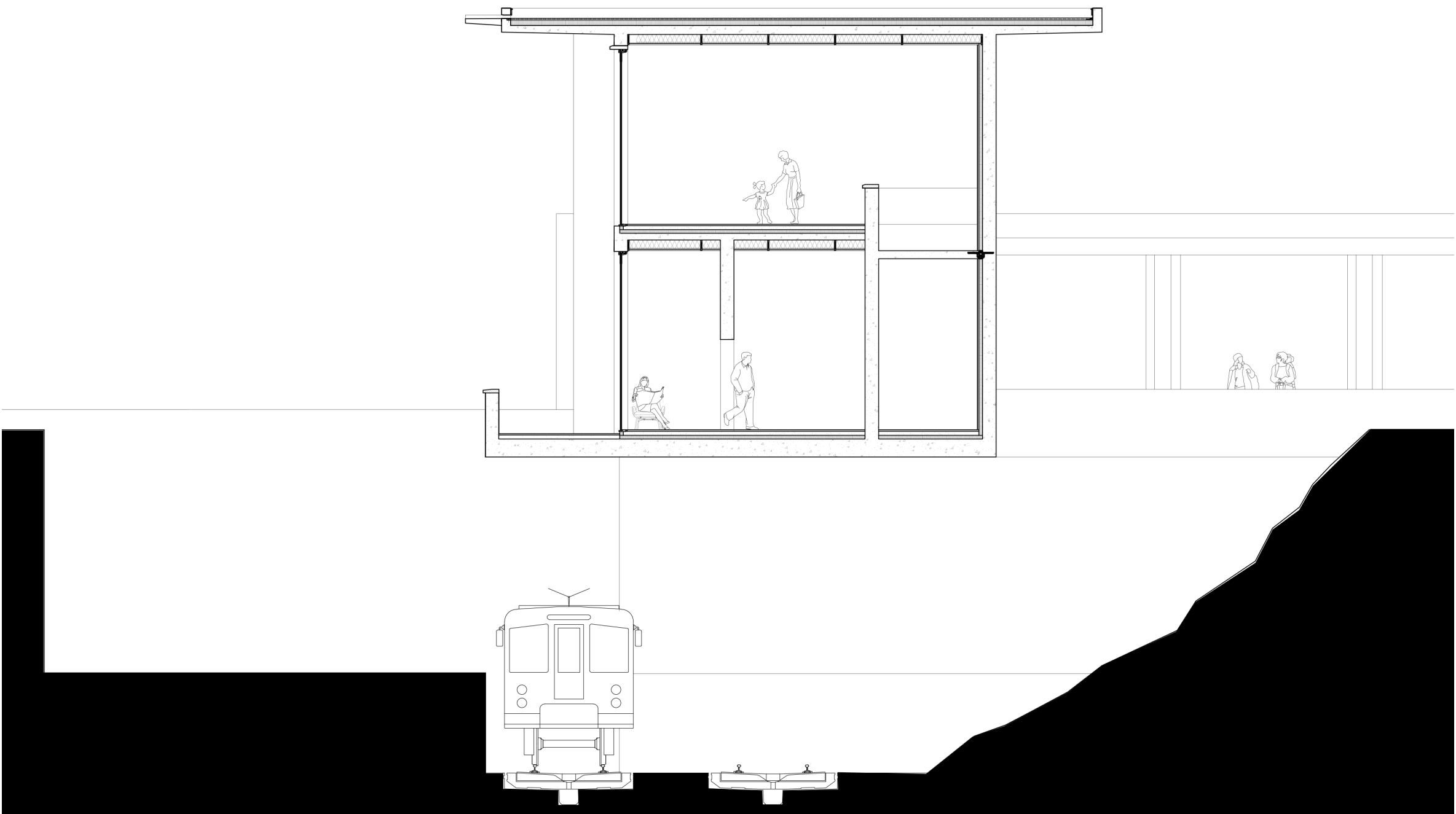
STRUCTURAL DIAGRAMS
Library and galleries



- ENVELOPE CONSTRUCTION:**
- 600 mm thick rammed earth wall
 - 200 mm thick cast-in-place concrete exterior wall
 - Concrete beam in 600 x 600 m.
 - Cast-in-place concrete floor and loam flooring

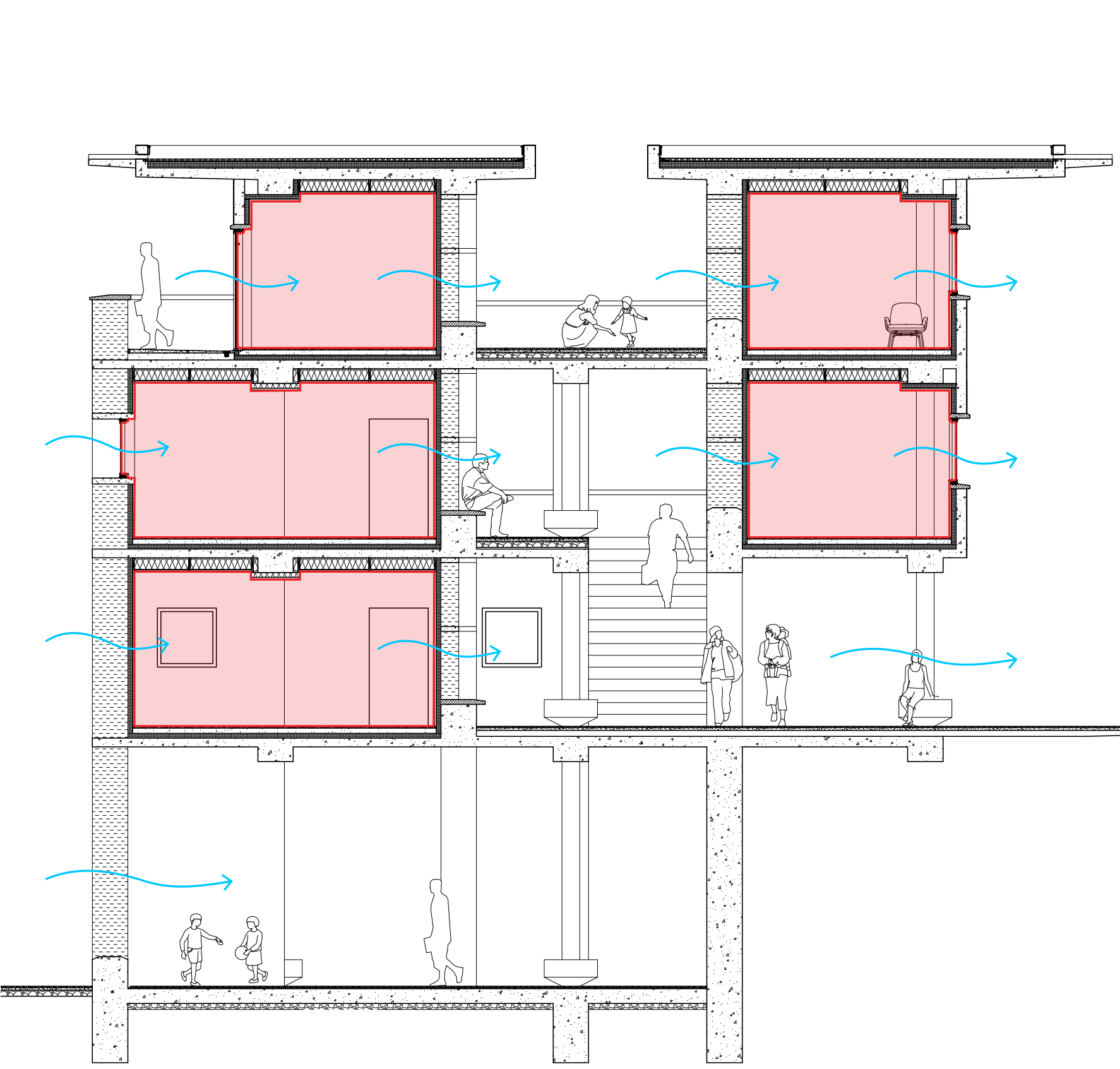


- ROOF CONSTRUCTION:**
- Concrete beam in grid with maximum distance of 600 x 600 m. thick cast-in-place concrete roof slab



- OVERALL CONSTRUCTION:**
- C-shape reinforced concrete as a continuous structural tube with maximum width of 10 m. and 9 m. height.
 - On the opposite side would be more open with double-glazed glass facade.

CLIMATE DIAGRAM
Shading and Ventilation



- INSULATED LIVING ZONES:**
- the living zones are all insulated separately from the structure to provide the right indoor climate in Casablanca's hot and cold days.
- CROSS VENTILATION:**
- all dwellings have double orientation and thus can make perfect use of natural cross ventilation to ventilate the spaces.

- LOCAL MATERIALS**
- preparation, transport and handling of local material reduces needed energy and limits environmental pollution.
 - simple construction methods promotes local labour and generates work.

- OVERHANGS:**
- Casablanca has a mediterranean climate in which solar heat gain should be prevented.
 - the use of overhangs keeps the dwellings sheltered from the sun and reduces the solar heat gain .

- SOLAR PANELS:**
- Residents gain electricity from solar panels on the roof .

