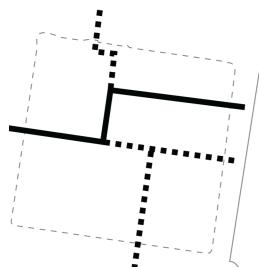
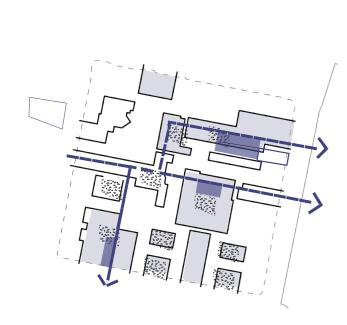
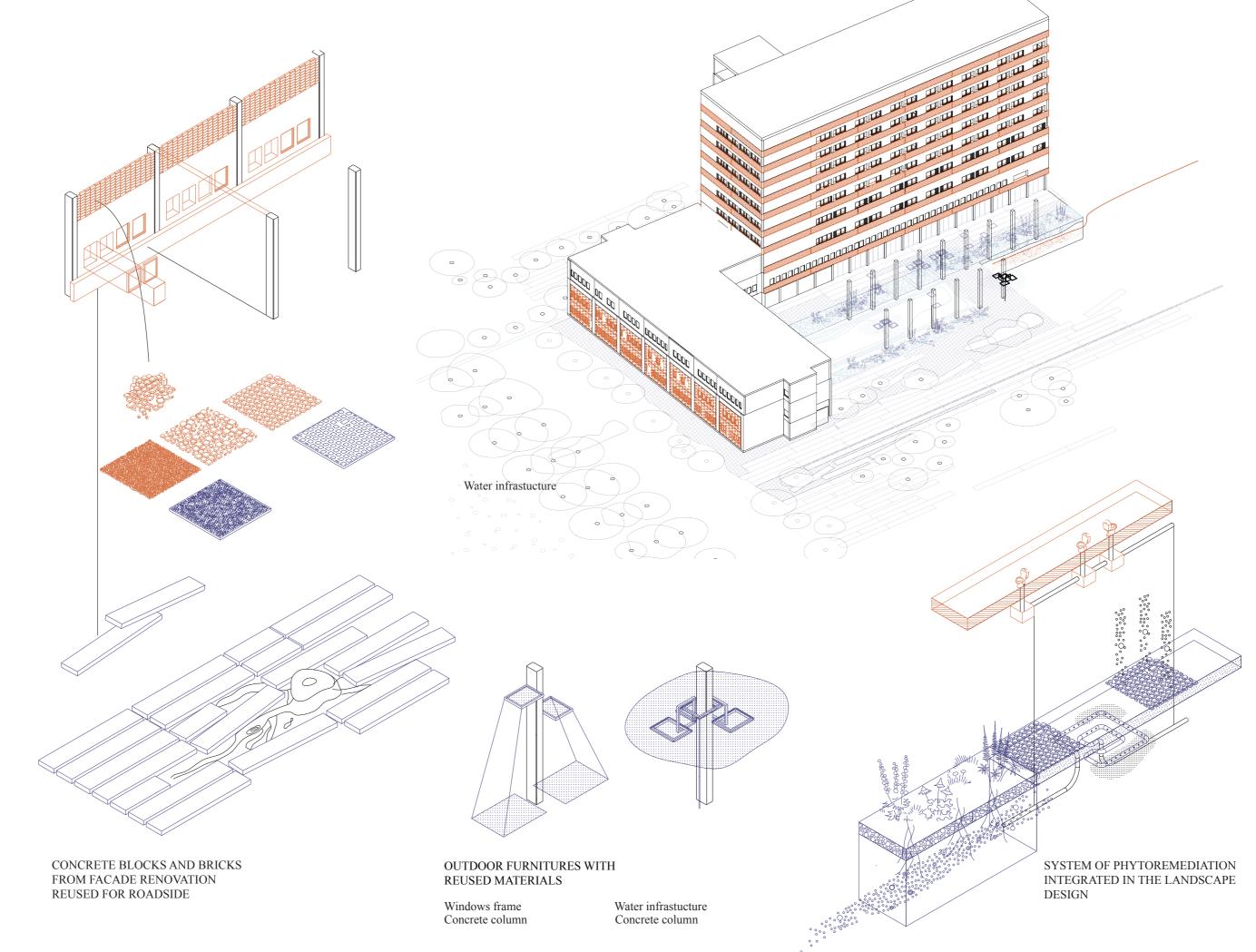
ET032 Toolbox for Metabolic urban landscape

Currently, the path doesn't allow crossing the site. By creating continuity and renovating the roadside with resources from the demolition, we can establish enjoyable pedestrian pathways while maintaining a strong link with the lake. Despite the new porosity of the ground, a road suitable for vehicles will still cross the site from east to west to serve the housing.



Open Courtyard Opening the courtyard means making the ground more porous and deartificialized, creating an infrastructure network for water regeneration through landscape design





Embracing Entropy and Contingency in Landscaping

The incorporation of re-employed blocks from facades serves as a key technical aspect, providing stability and durability to support heavy loads. The varying joints between the blocks are strategically designed to create ample space for tree roots and vegetation to grow, intertwine, and reshape their order. Additionally, these blocks are intentionally permeable, promoting efficient water infiltration into the soil, reducing runoff, and contributing to the replenishment of groundwater.

While the re-employed bricks serve a dual purpose by improving drainage and preventing soil erosion. The spaces between the bricks facilitate better water percolation, preventing waterlogging and enhancing soil aeration.

By incorporating re-employed blocks and bricks, the project establishes a dynamic negotiation between human and non-human entities, recognizing the agency of nature in shaping the ground. Embracing the principles of entropy and contingency

RHIZOFILTRATION &

(a) Prefabricated

Layout versatile

F2 Crossing Flat

Natural Ventilation

Outdoor Circulation

bioclimatic protection.

overhang of the balcony.

F3

to existing water column.

Prefabricated sanitary module plug

Integrating a living room with natural ventilation and an adaptive loggia allows for enhanced comfort and versatility.

Vertical chimney for natural ventilation

Vertical circulation galleries with vegetation promoting freshness and

(b) Extend the south facade

Adding a structure of balcony of the south facade create a passive sun protection by the

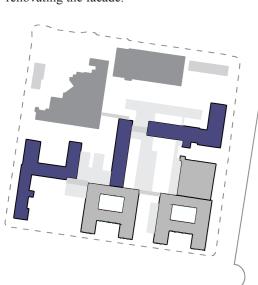
The opening are enlarged for summer confort.

PHYTOREMEDIATION for ground floor regeneration and water revitalization

By utilizing the current pipeline infrastructure, we direct contaminated groundwater towards carefully selected plant species known for their remarkable ability to absorb pollutants. These plants have extensive root systems that function as natural filters, efficiently extracting contaminants from the water through physical entrapment and biochemical processes. This method presents a cost-effective and practical solution for revitalizing the hospital ground floor while simultaneously improving water quality for irrigation and minimizing any negative effects on the environment

Toolbox for Metabolic architecture

Bars This typology of structure is omnipresent on the site, making it profitable for creating housing. Many aspects make it highly potential for sustainable functioning by



Gateway

Today, gateways link the different building but enclose the courtyards. By opening them, taking out their partition for reuse, we create visual porosity throught the site. Althought, they can become vegetation surpport and conduct water from the roof

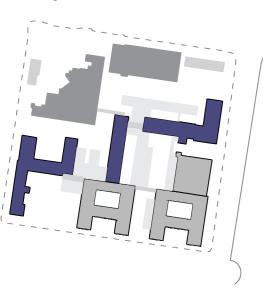
to the ground infiltration system.

Cluster Square

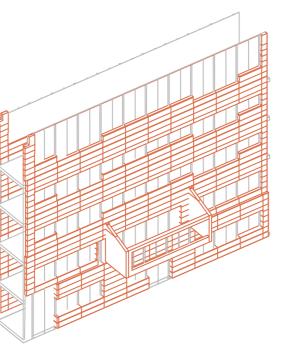
the ground infiltration system

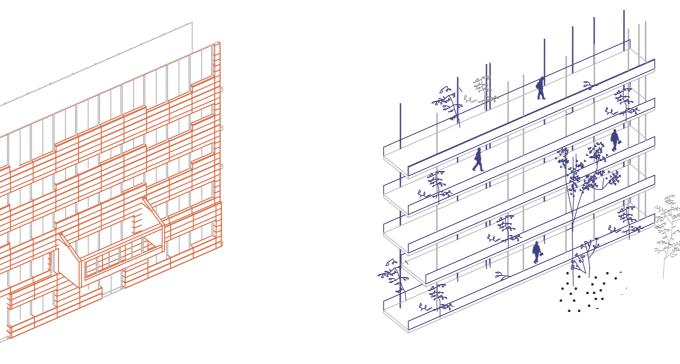
Currently, gateways link the different buildings but enclose the courtyards. By opening them and removing their partitions for reuse, we can create visual porosity throughout the site. Additionally, these gateways can serve as vegetation support and facilitate water flow from the roof to

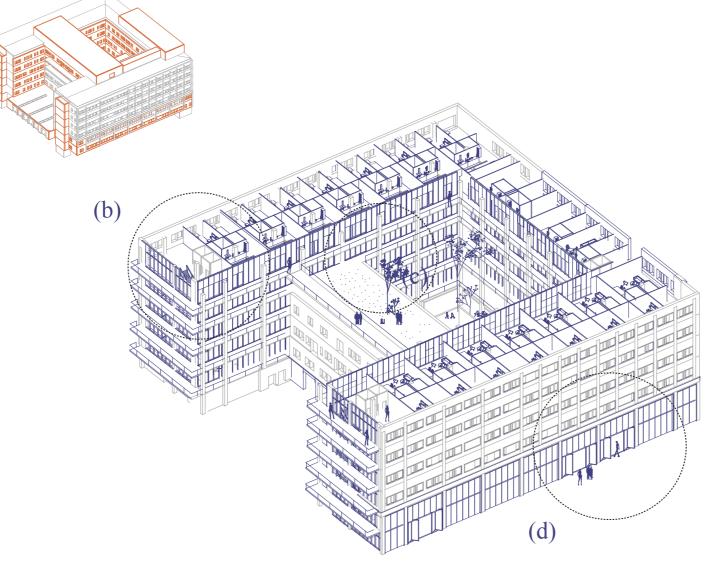
renovating the facade.



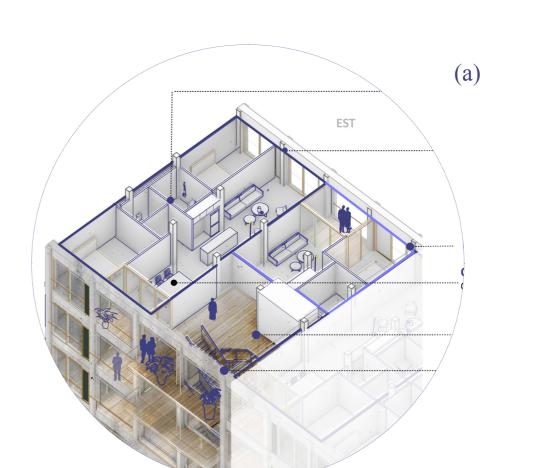
SCHEME OF THE TRANSFORMATION OF THE BAR TYPOLOGY

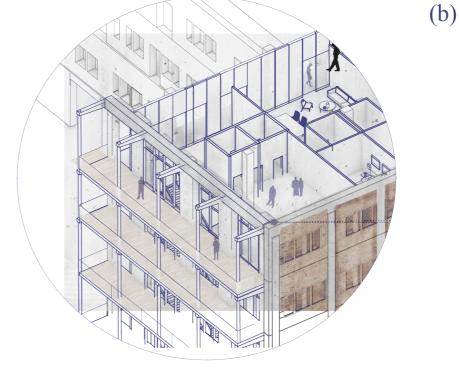


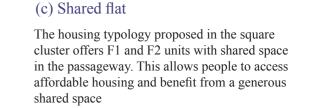


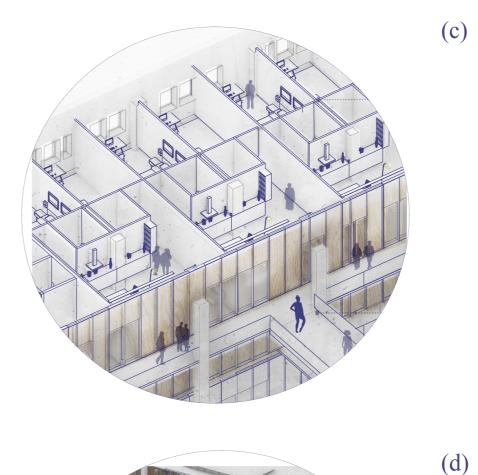


TRANSFORMATION OF THE SQUARE TYPOLOGY









(d) Open Interieur

The new interior facade of the cluster square offers passageways to serve the housing units. This approach to serving could easily allow program mutability, such as converting the spaces into offices.

Activate the Ground Floor

Enlarging the ground floor following the structure of the existing facade allows the ground floor to host diverse activities such as workshops, retail spaces, and co-working areas. Although it increases the porosity of the

Vegetalized patio

Deartificializing the ground of the courtyard by restoring the soil and planting trees can help prevent urban heat islands.

