



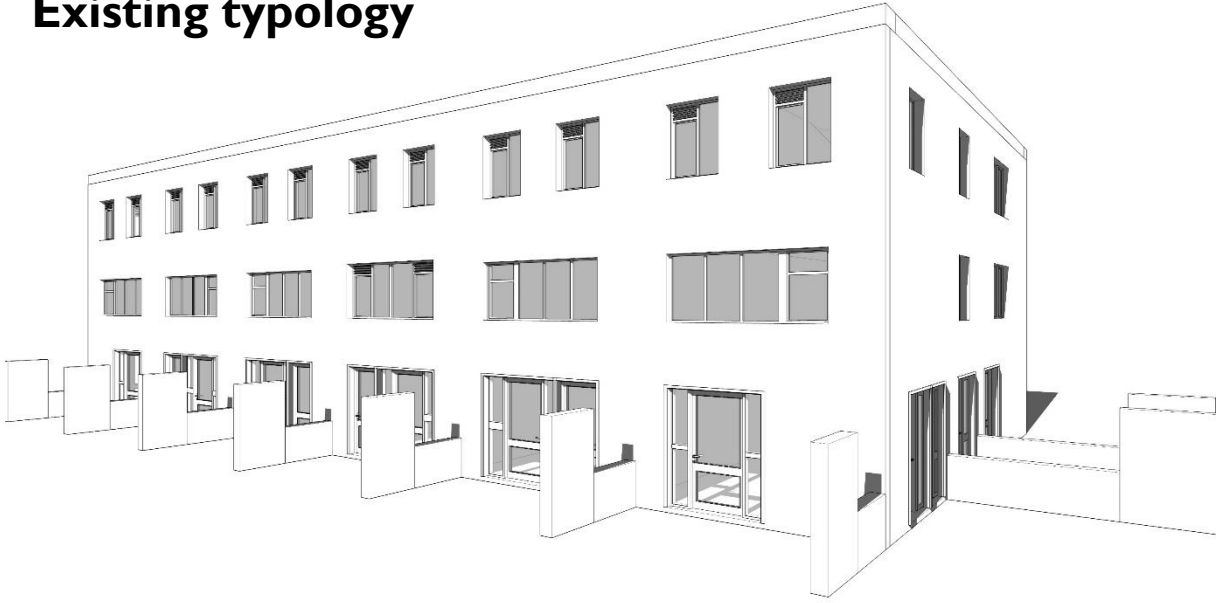
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PROECCO **PRO**moting **E**mployment through
Climate Responsive **CO**nstruction

Existing typology



Simplified design

- Optimised design to reduce cost and maximise indoor usable space
- Simplified layout to reduce construction time
- Missing common block-level facilities
- Reduced usability of outdoor areas

New typology



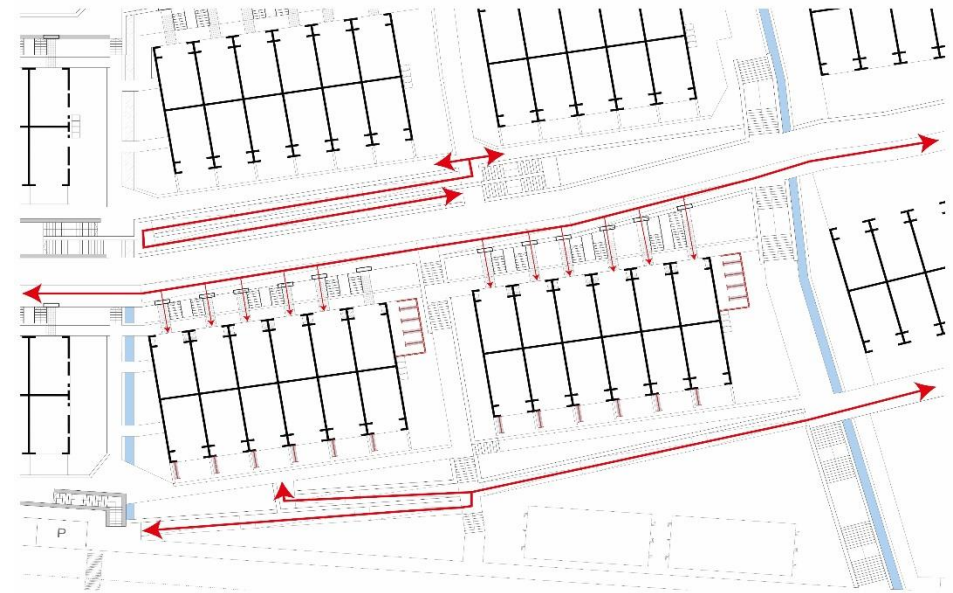
Double skin façade with perforated wall

- Creating a private space for cooking
- Providing drying space for all floor level
- Increased privacy
- Shading for the façade
- Increasing the ventilation and thermal comfort

Typology Comparison



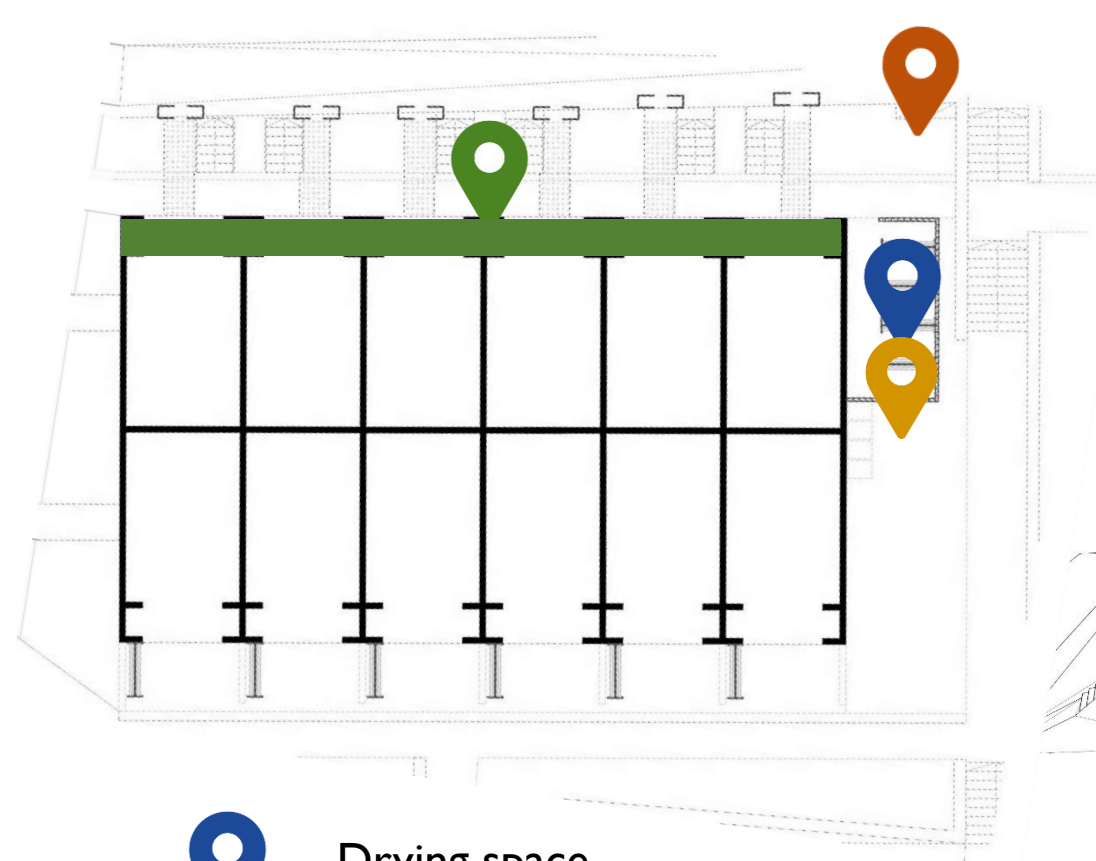
Ramps are located wherever possible considering the challenging topography



Bridges at low gradient connect the first floors to the road



Improved accessibility for PWD



Drying space



Waste collection



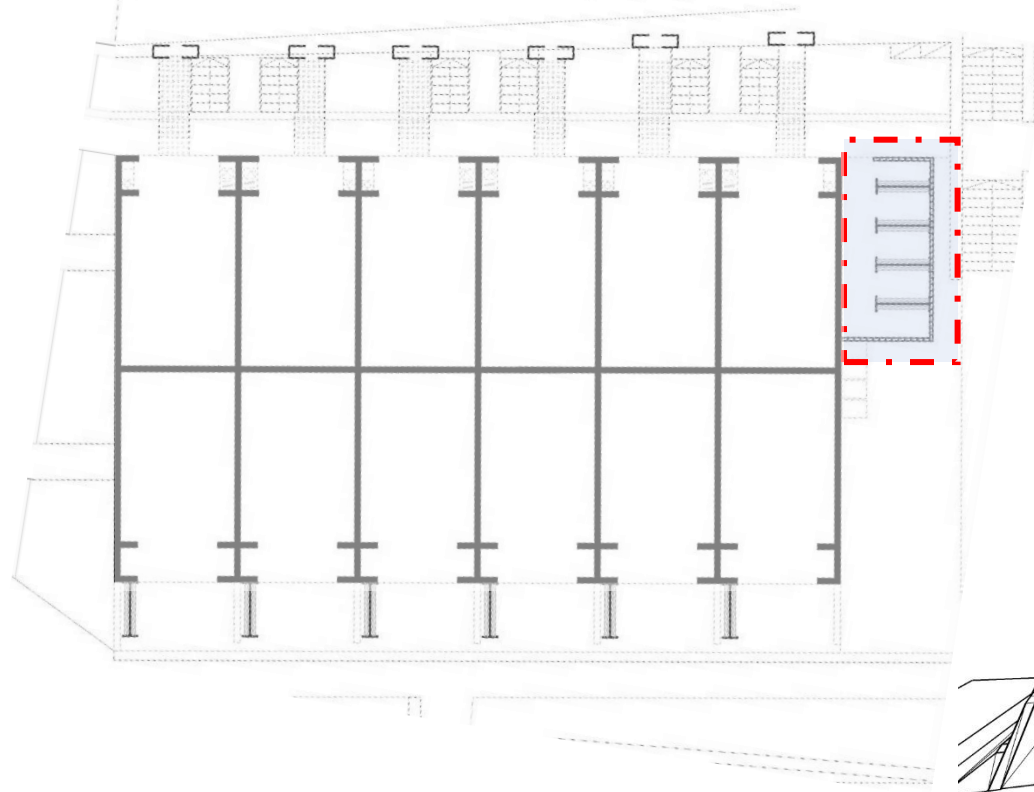
Outdoor kitchen



Rainwater harvesting

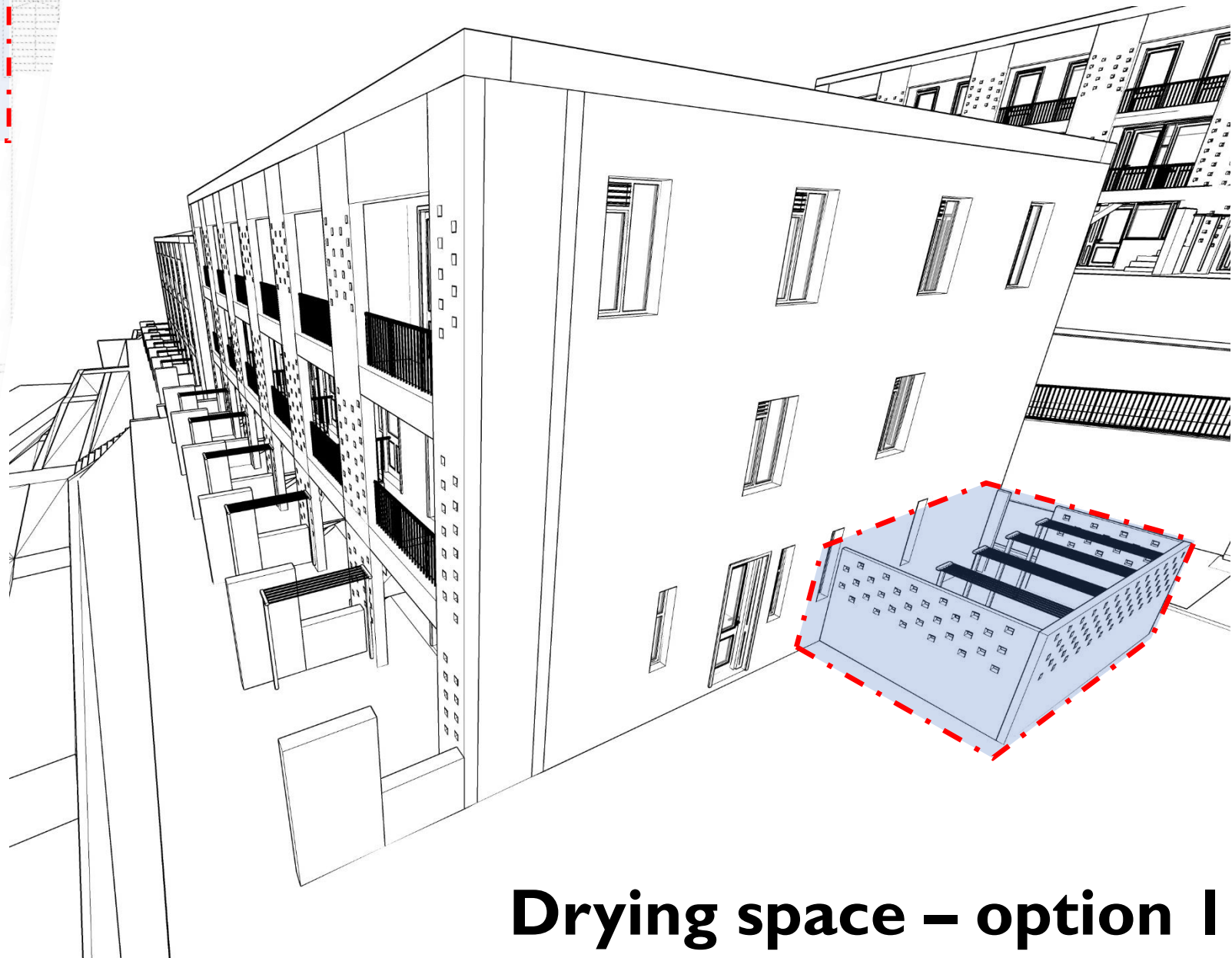


Improved block-level solutions

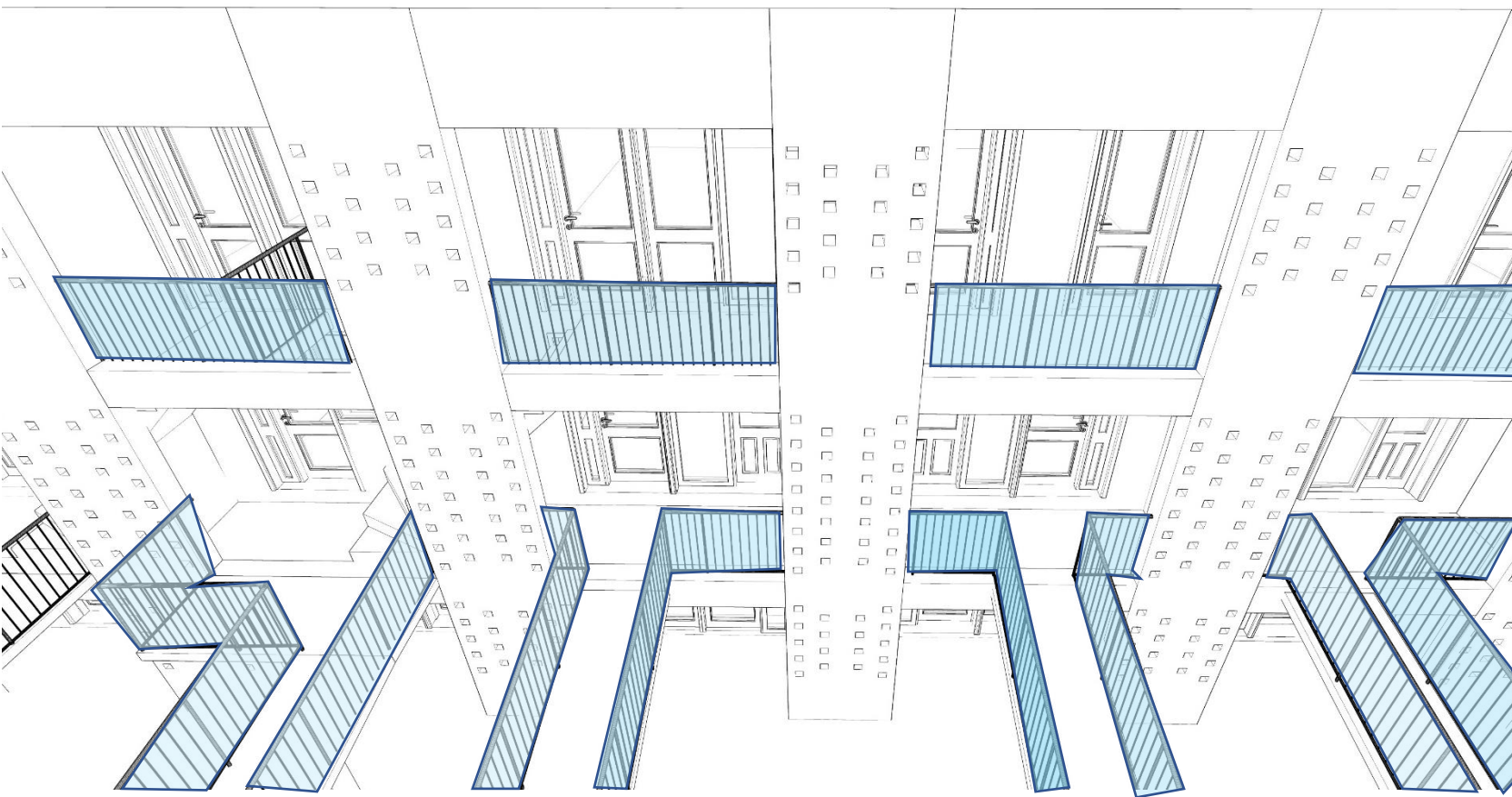


**Located on the side of the building,
serves multiple units and is
managed by the block residents**

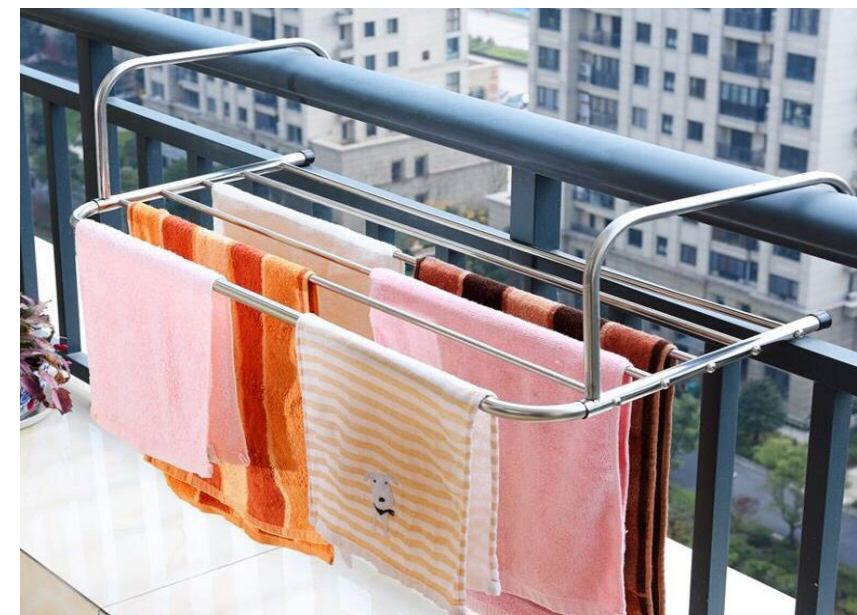
**Access can be controlled and
managed by Owners Committee**



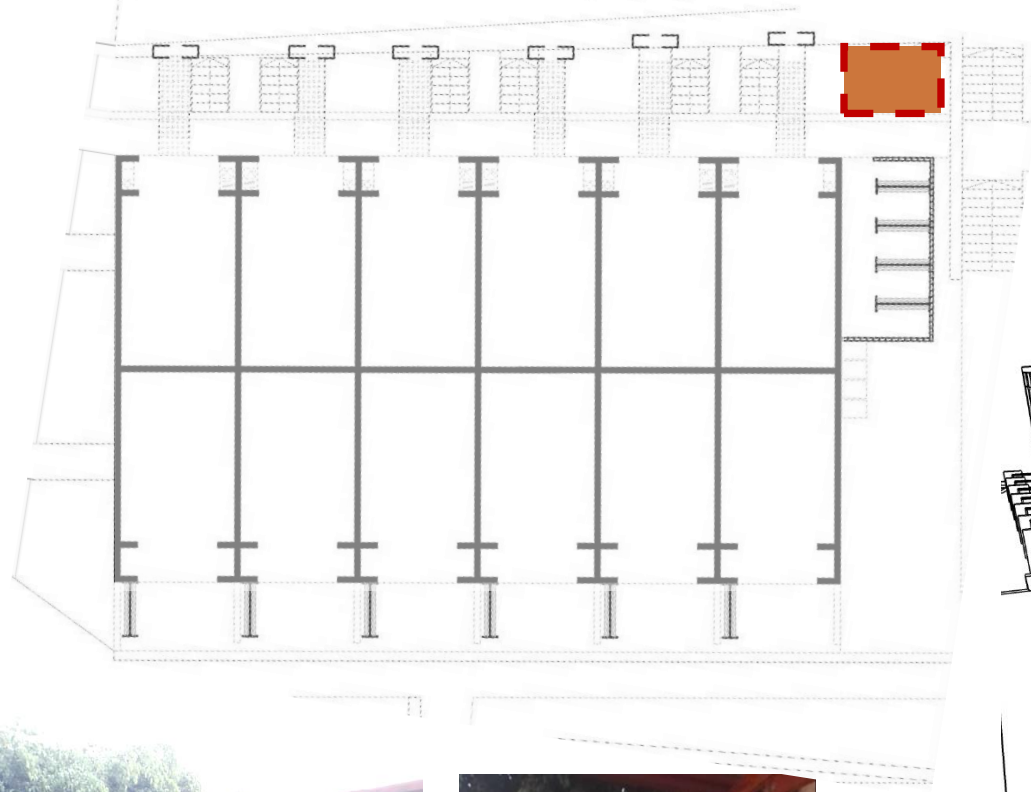
Drying space – option 1



Private railings in each unit can be used as drying spaces for small items



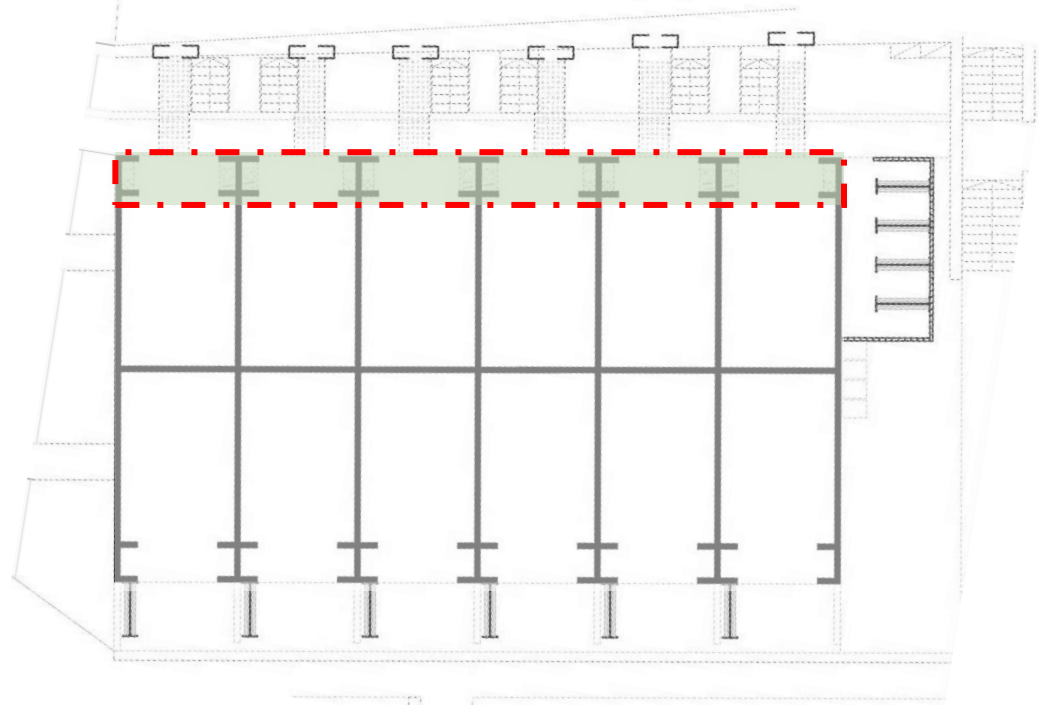
Drying space – option 2



Waste collection points are available at block level and are managed by the Owners Committee

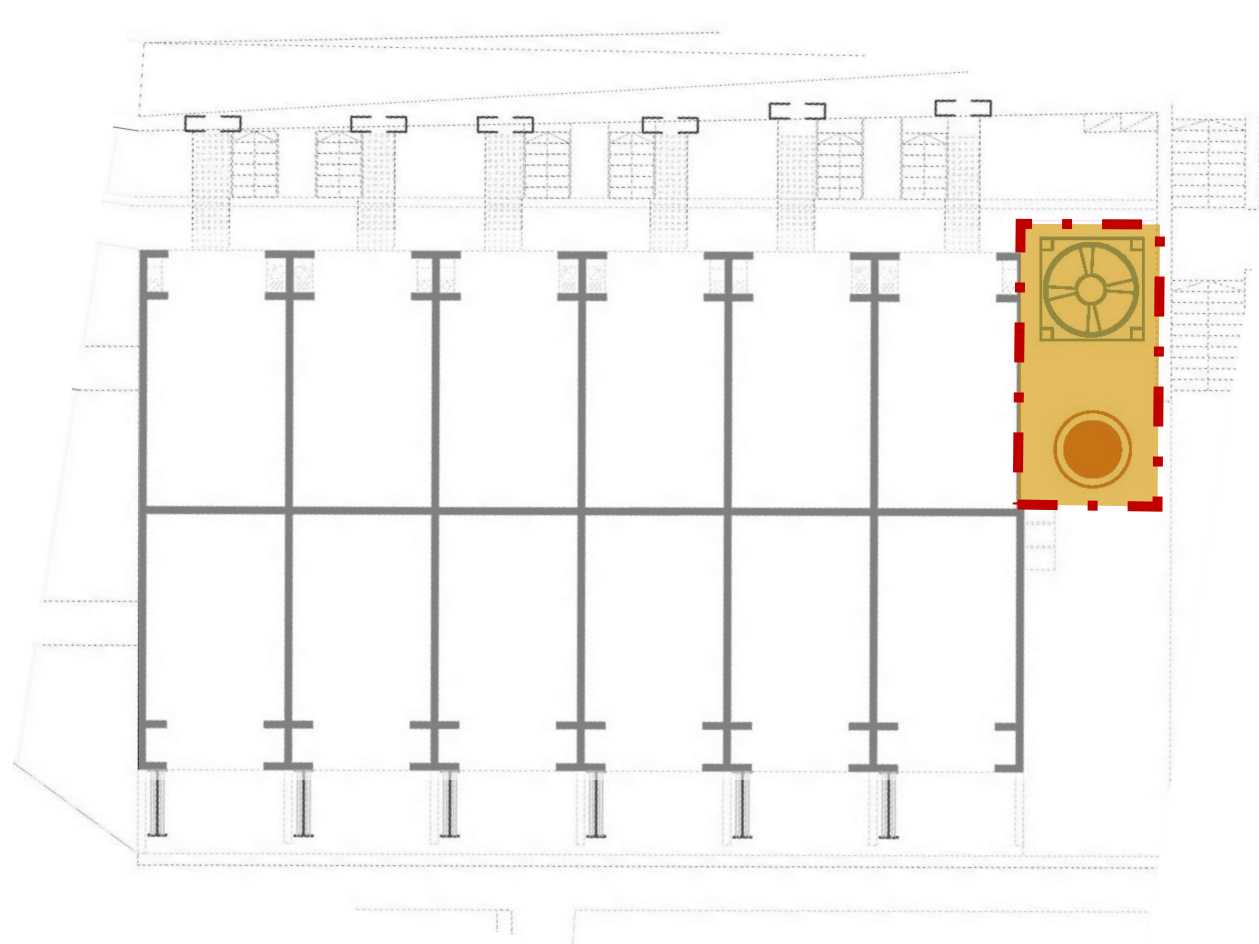
Waste collection





Private cooking areas can be obtained from the space between the main façade and the second skin of the building

Outdoor Private Kitchen



Water harvesting solutions are provided at each block and can be partially located underground to reduce space usage.
Solar powered water pumps are planned.

Rainwater harvesting

www.madeingreatlakes.com



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