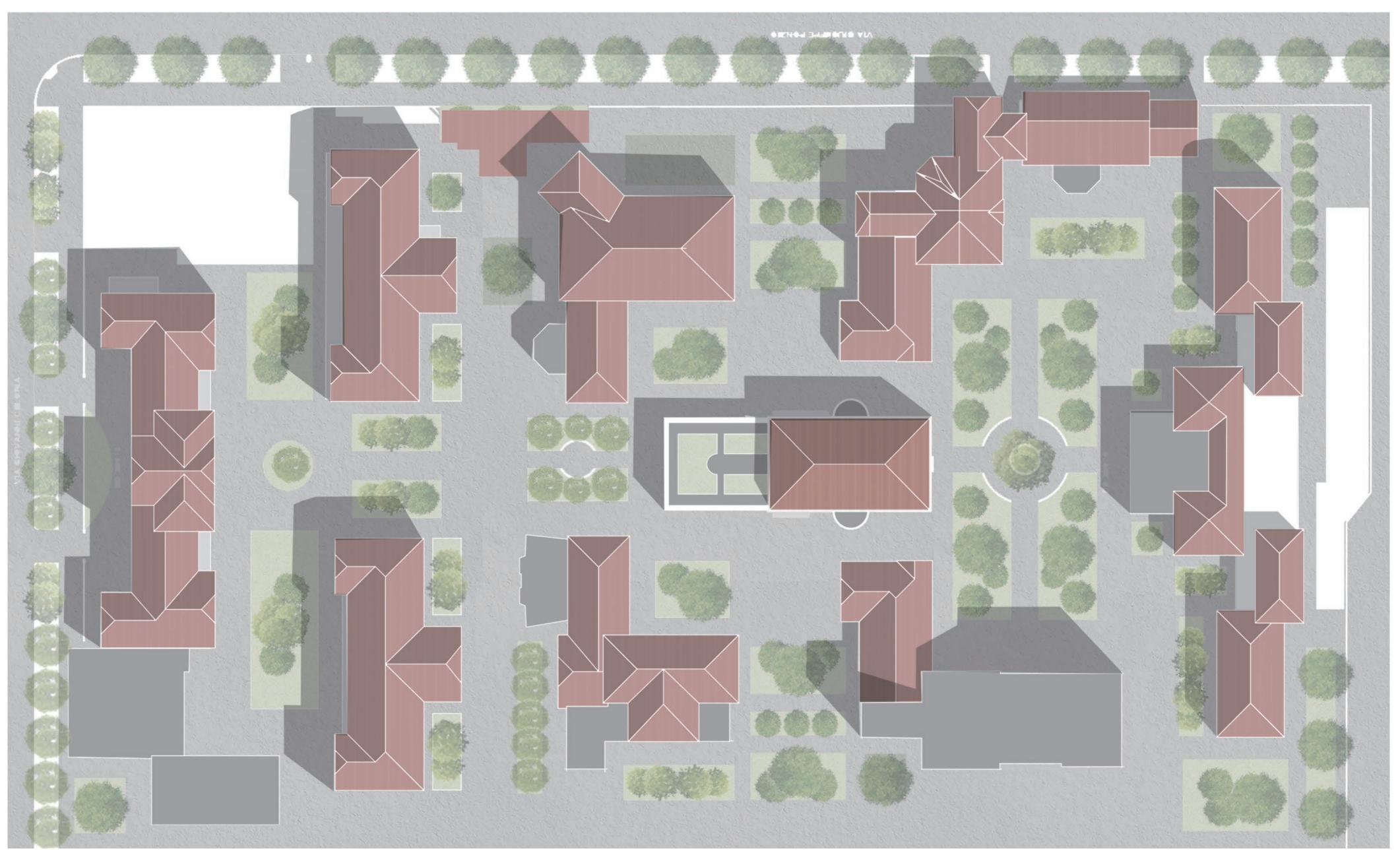


View from North Facade



Site Plan 1:500

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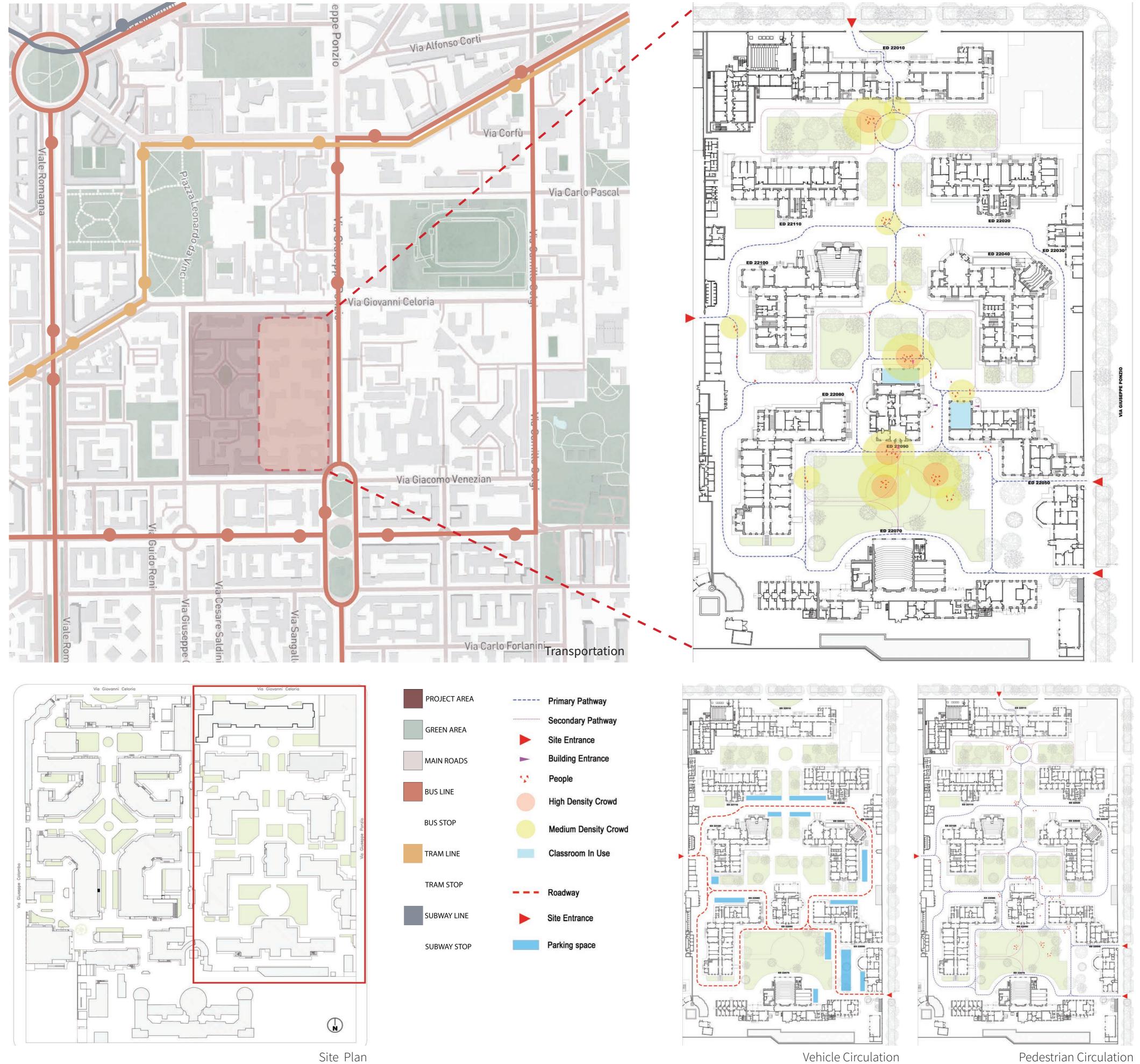
Architecture Design Studio

Politecnico di Milano School of Architecture, Urban Planning and Construction Engineering Architectural Design Studio for Restoration and Transformation of Complex Construction 2021 - 2022 Supervisor:Co-Supervisor:Giulio M.BarazzettaSonia Pistida, Lucia Toniolo, Angela Pavesi,
Mauro E. Giuliani, Luca A. Pitera

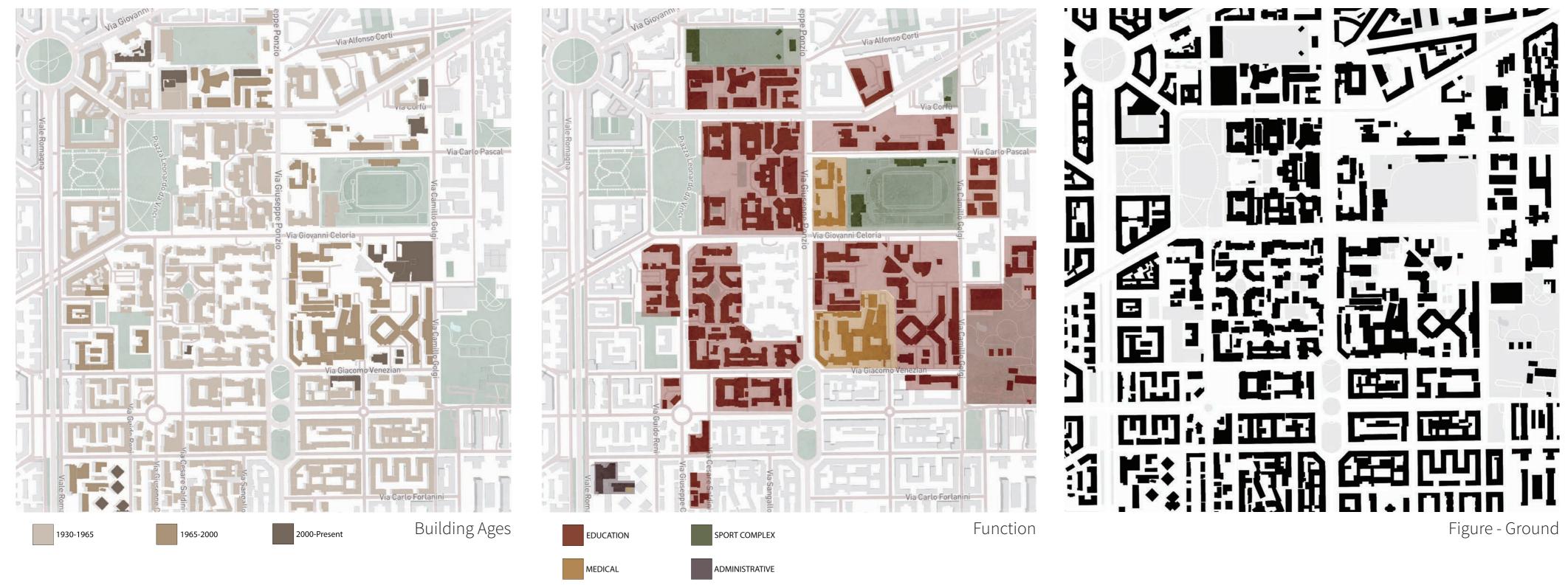
Collaborators: Guerritore Camilla Negrisolo Simone Simoncelli Marco

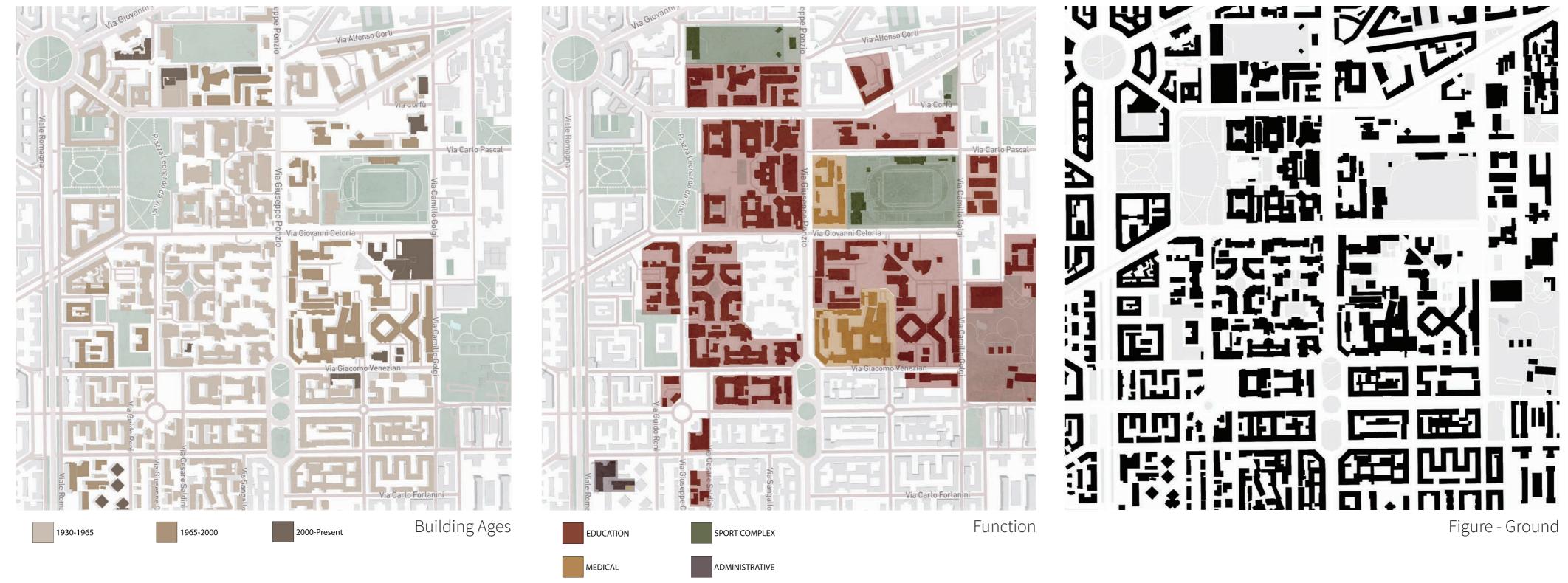
Students: Nilüfer Ece Koroglu Jian Deng Date: 18.07.2023

Site Analysis



Vehicle Circulation









Architecture Design Studio

Politecnico di Milano School of Architecture, Urban Planning and Construction Engineering Architectural Design Studio for Restoration and Transformation of Complex Construction 2021 - 2022

Co-Supervisor: Sonia Pistida, Lucia Toniolo, Angela Pavesi, Giulio M.Barazzetta Mauro E. Giuliani, Luca A. Pitera

Supervisor:

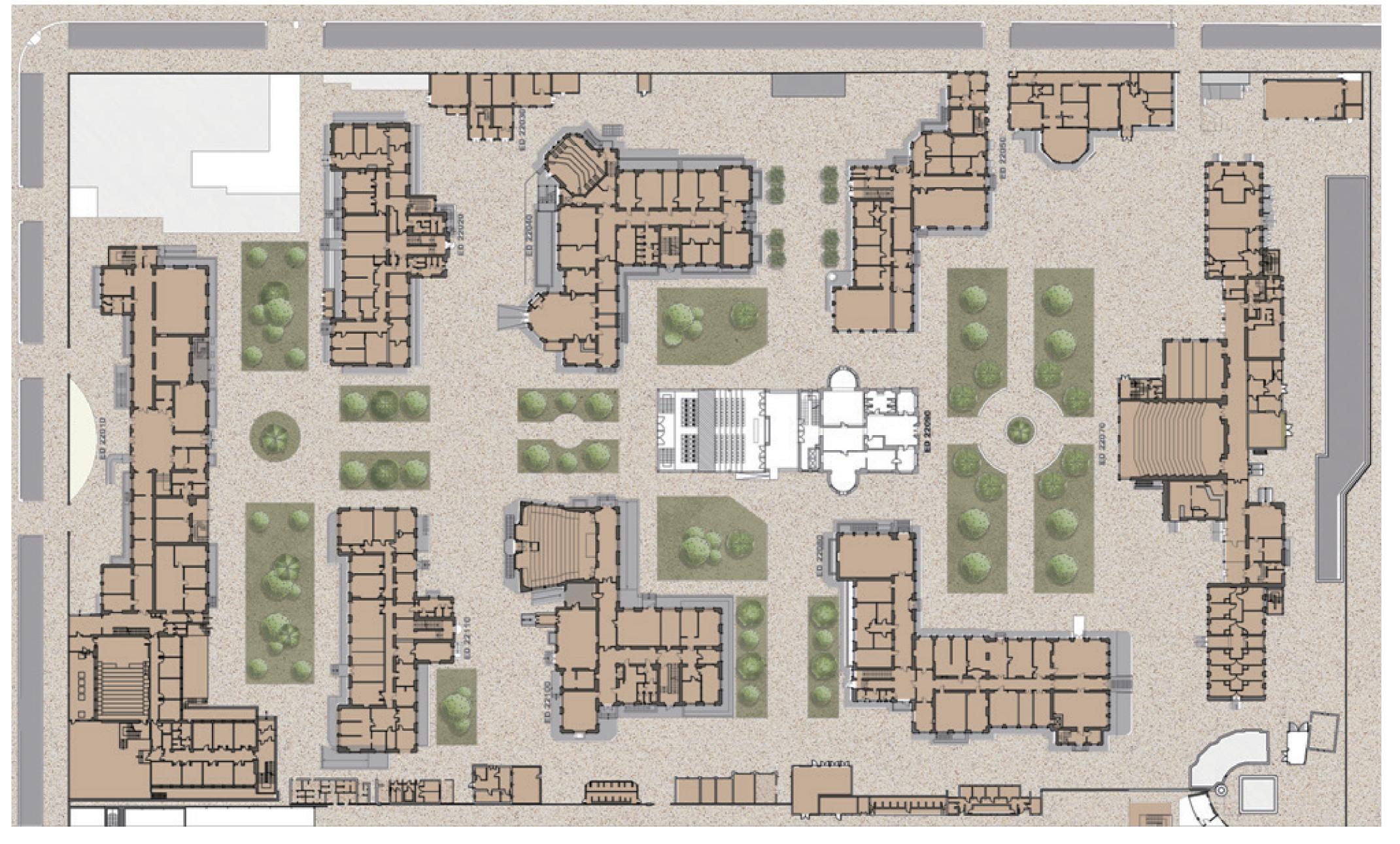
Collaborators: Guerritore Camilla Negrisolo Simone Simoncelli Marco

Students: Nilüfer Ece Koroglu Jian Deng

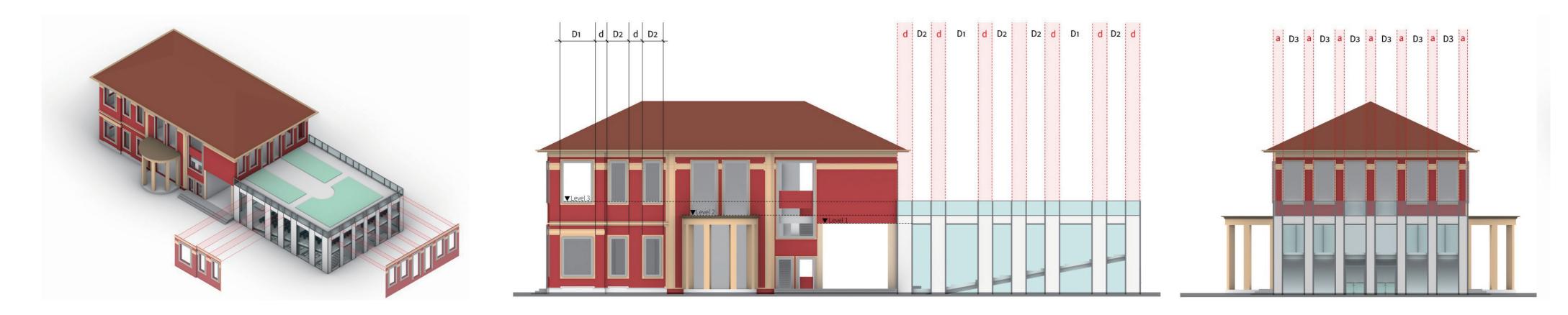
Date: 18.07.2023

02





Ground Floor Plan 1:500





Architecture Design Studio

Politecnico di Milano School of Architecture, Urban Planning and Construction Engineering Architectural Design Studio for Restoration and Transformation of Complex Construction 2021 - 2022 Supervisor:Co-Supervisor:Giulio M.BarazzettaSonia Pistida, Lucia Toniolo, Angela Pavesi,
Mauro E. Giuliani, Luca A. Pitera

Collaborators: Guerritore Camilla Negrisolo Simone Simoncelli Marco

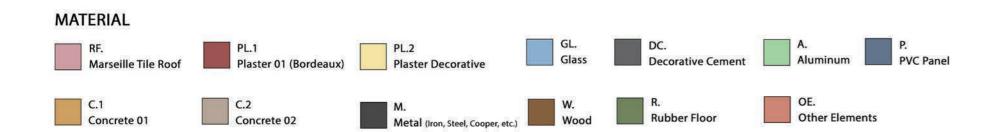
Students: Nilüfer Ece Koroglu Jian Deng

Panel:

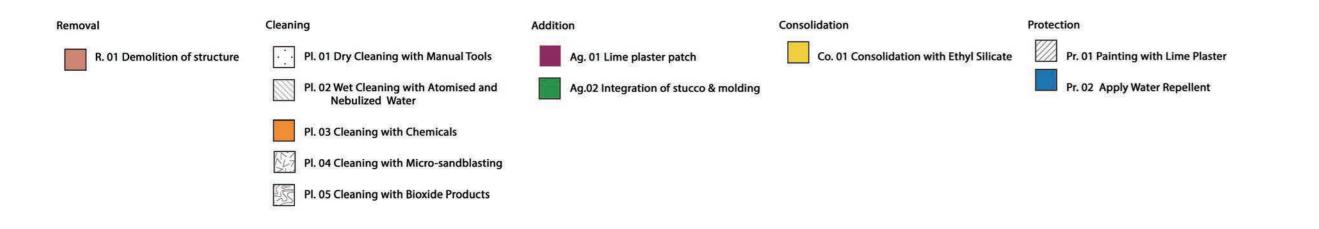
Date: 18.07.2023

03







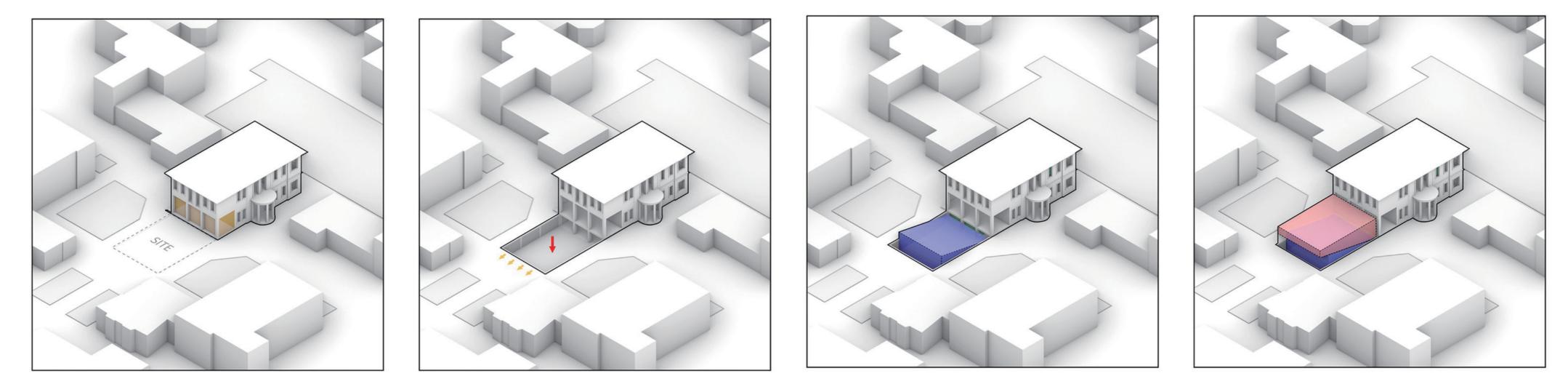




Architecture Design Studio

Politecnico di MilanoSupervisor: School of Architecture, Urban Planning and Construction Engineering Architectural Design Studio for Restoration and Transformation of Complex ConstructionSupervisor: Giulio M.BarazzettaCo-Supervisor: Sonia Pistida, Lucia Toniolo, Angela Pavesi, Mauro E. Giuliani, Luca A. PiteraCollaborators: Guerritore Camilla Negrisolo Simone Simoncelli MarcoStudents: Nilüfer Ece Koroglu Jian DengDate: 18.07.2023Panel: Out004



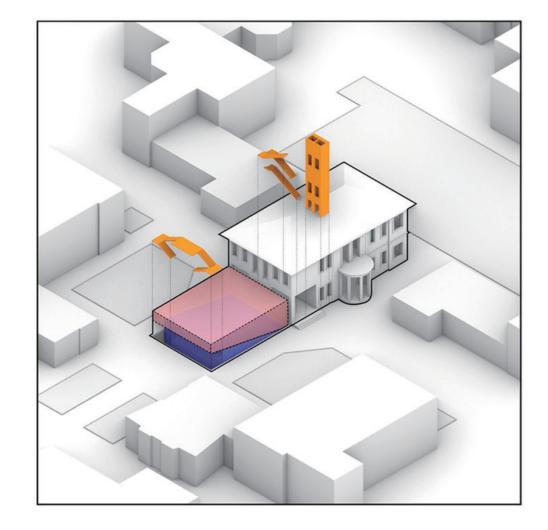


DEMOLISHMENT

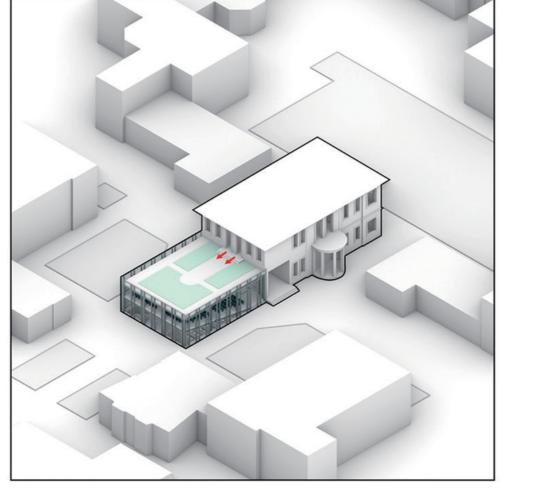
EXCAVATION

ADDITION

EXTRUSION

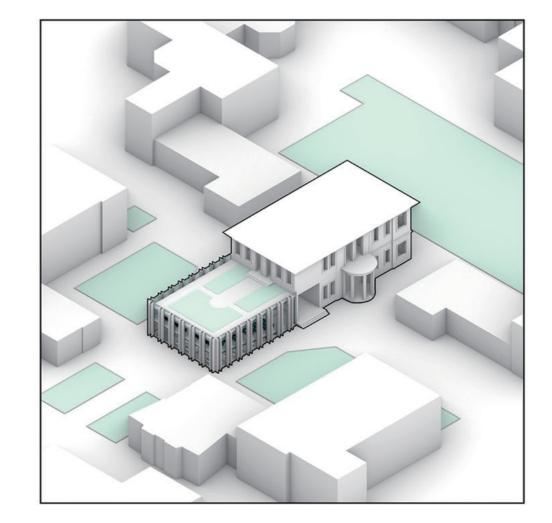


CIRCULATION

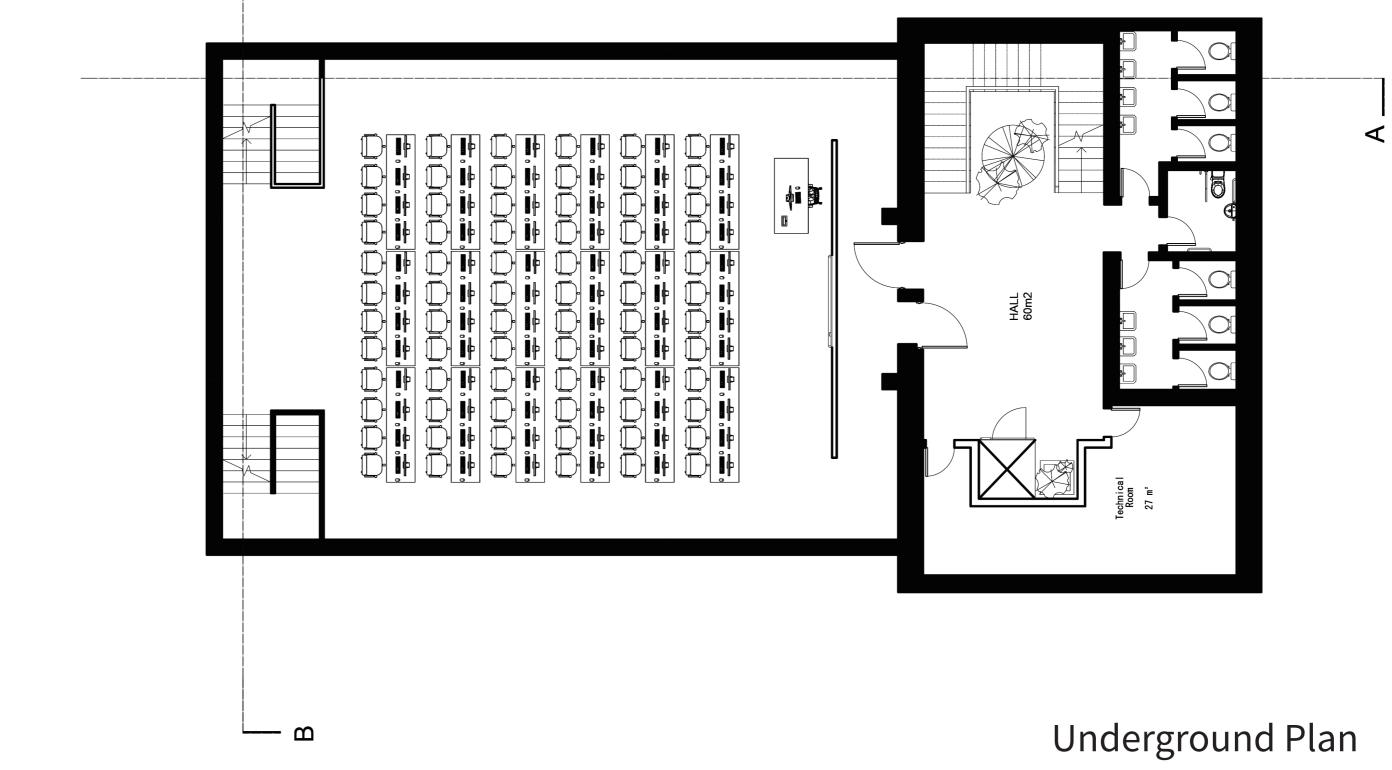


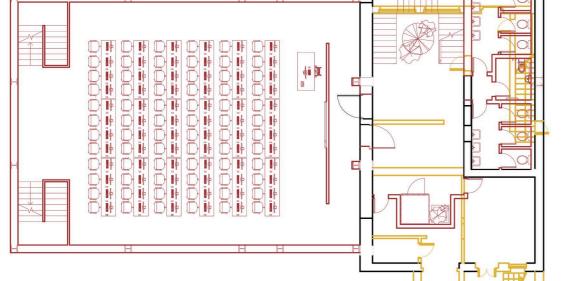
GREEN ROOF

PROPORTION



LANDSCAPE







Architecture Design Studio

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Mauro E. Giuliani, Luca A. Pitera

Collaborators:
Guerritore Camilla
Negrisolo Simone
Simoncelli Marco

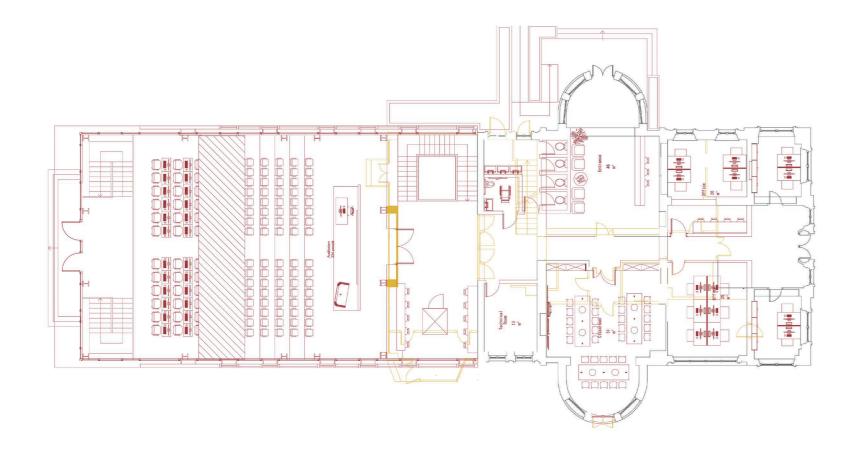
Students: Nilüfer Ece Koroglu
Jian Deng

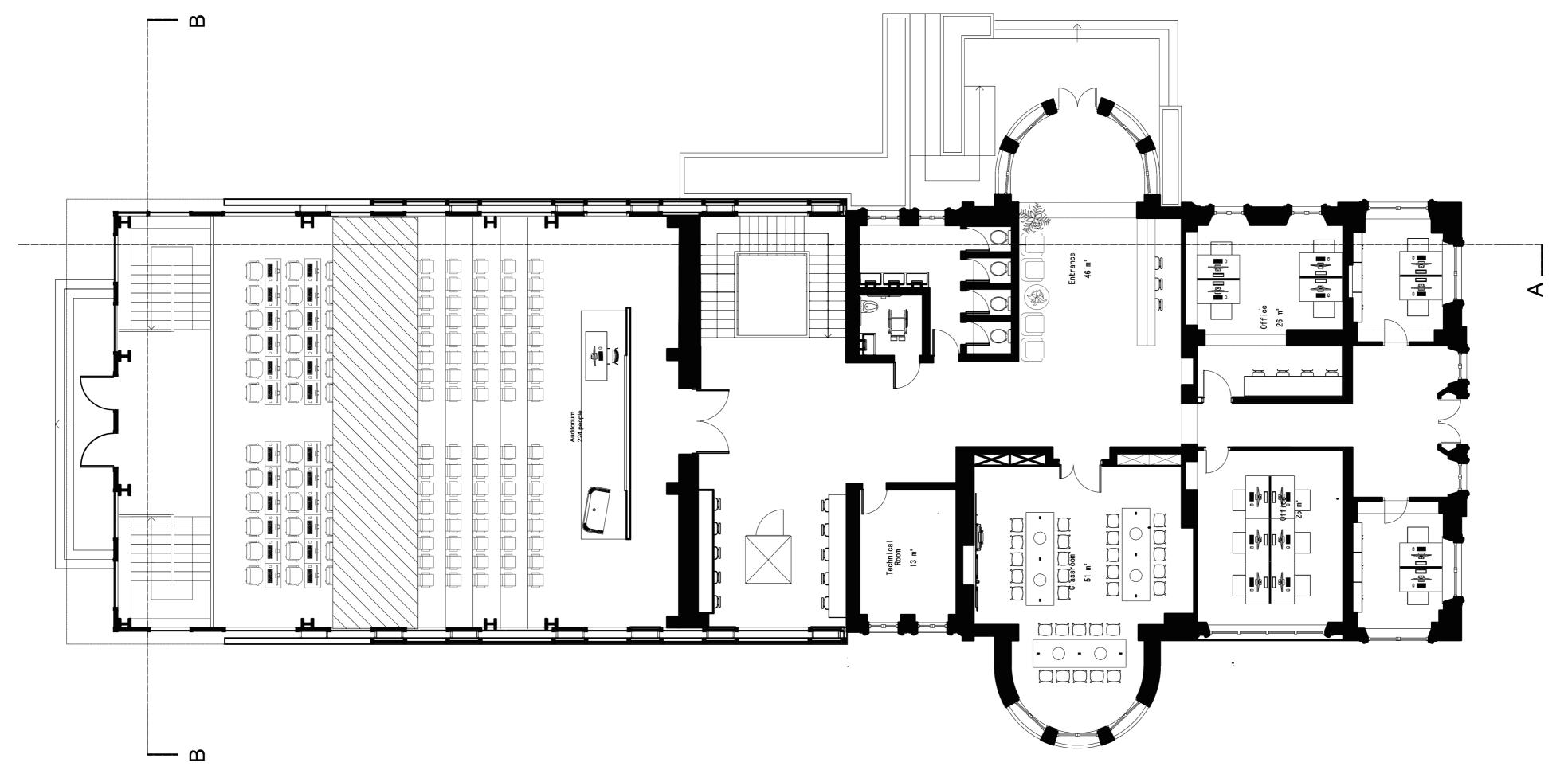
Date: 18.07.2023

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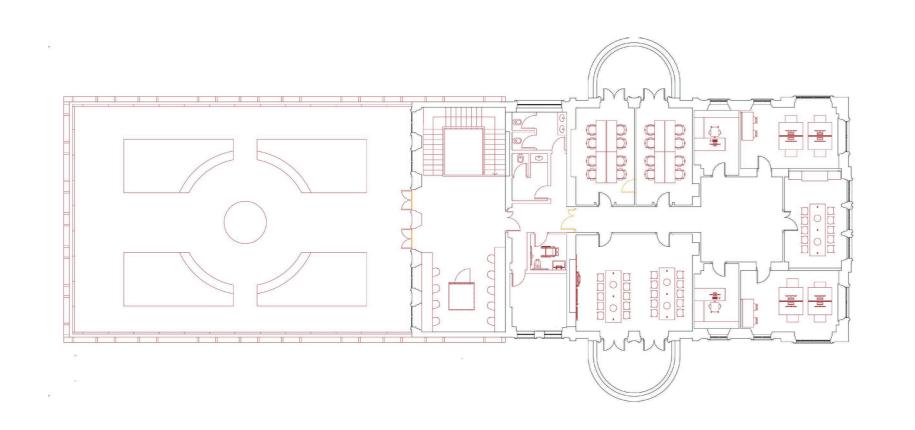
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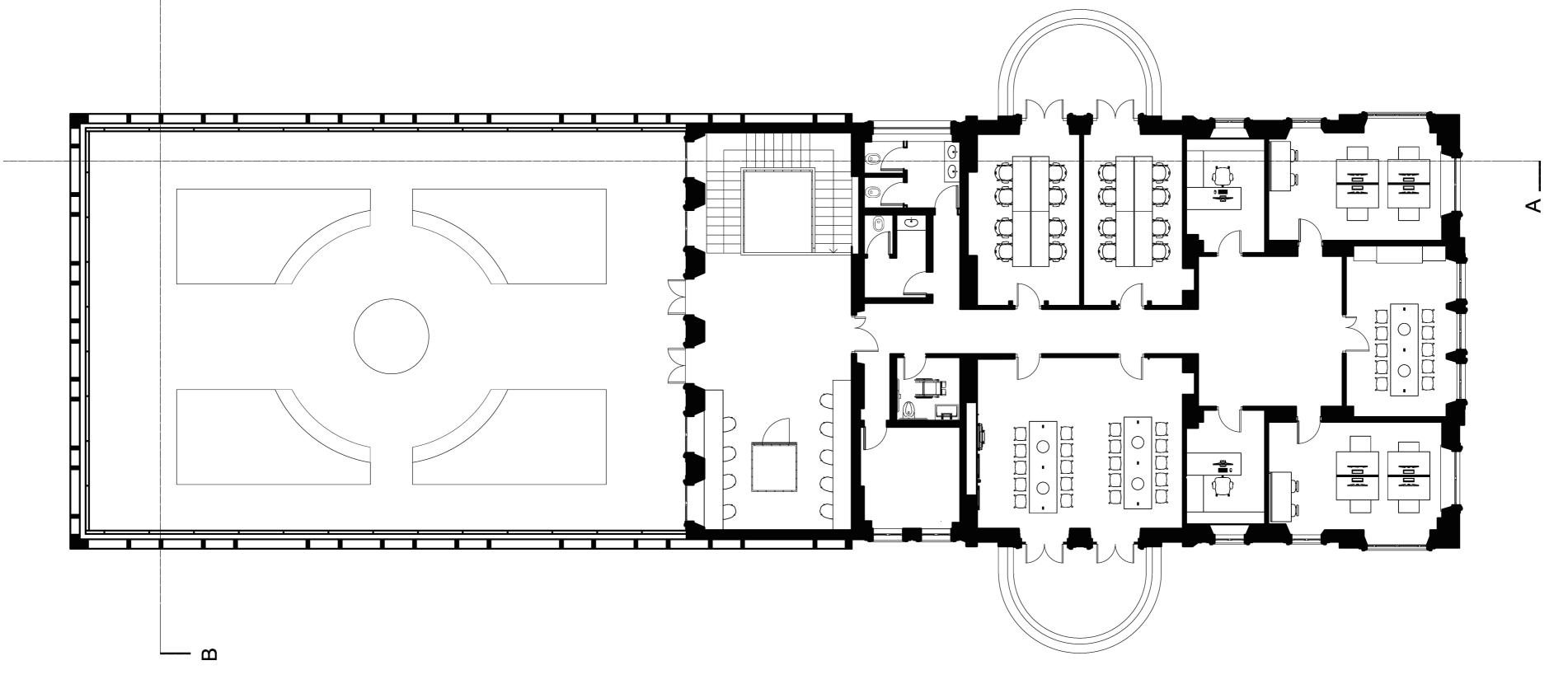
1:100





Ground Floor Plan 1:100





First Floor Plan 1:100

Panel:

Date: 18.07.2023



Architecture Design Studio

Politecnico di Milano School of Architecture, Urban Planning and Construction Engineering Architectural Design Studio for Restoration and Transformation of Complex Construction 2021 - 2022

Co-Supervisor: Sonia Pistida, Lucia Toniolo, Angela Pavesi, Giulio M.Barazzetta Mauro E. Giuliani, Luca A. Pitera

Supervisor:

Collaborators: Guerritore Camilla Negrisolo Simone Simoncelli Marco

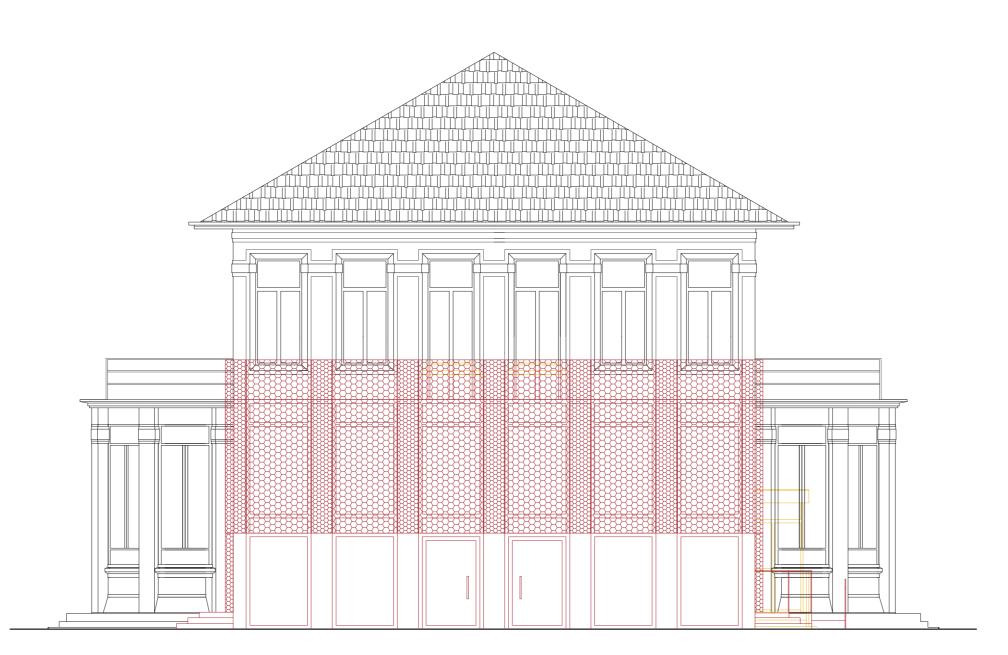
Students: Nilüfer Ece Koroglu Jian Deng

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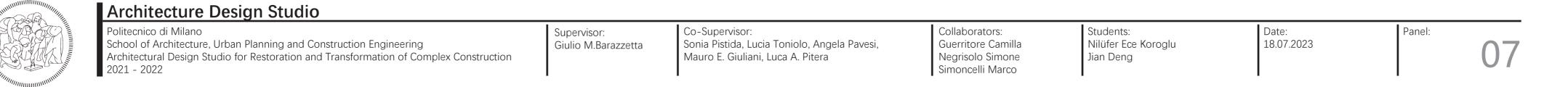


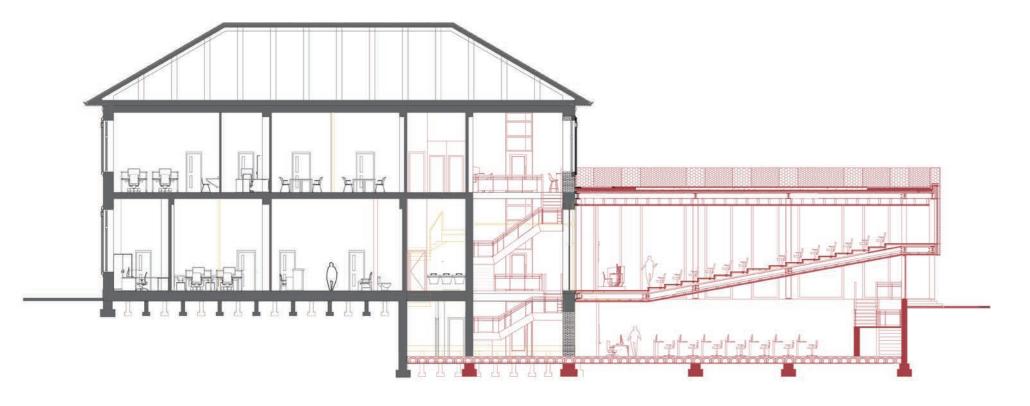
West Elevation 1:100

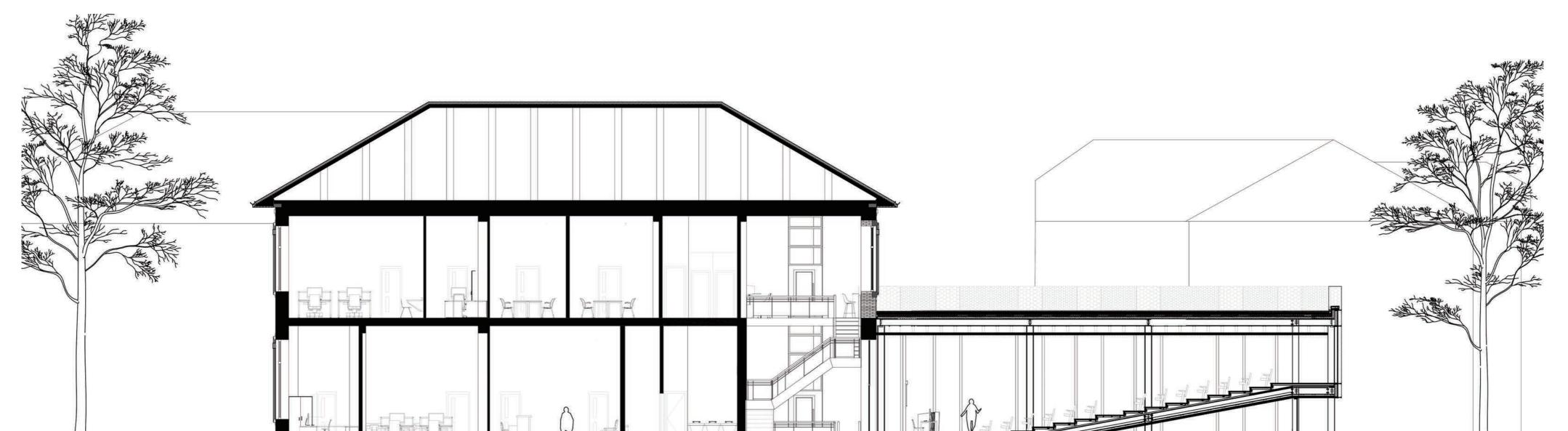


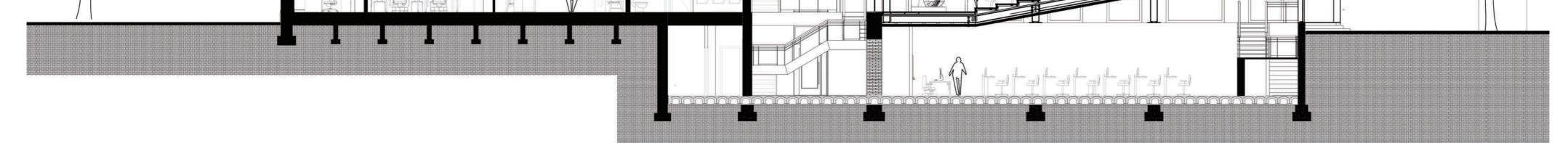


North Elevation 1:100

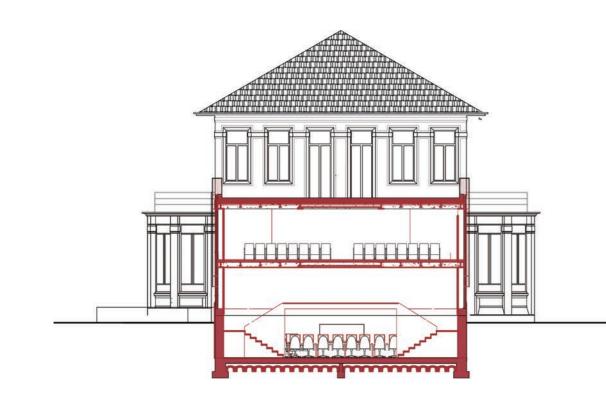


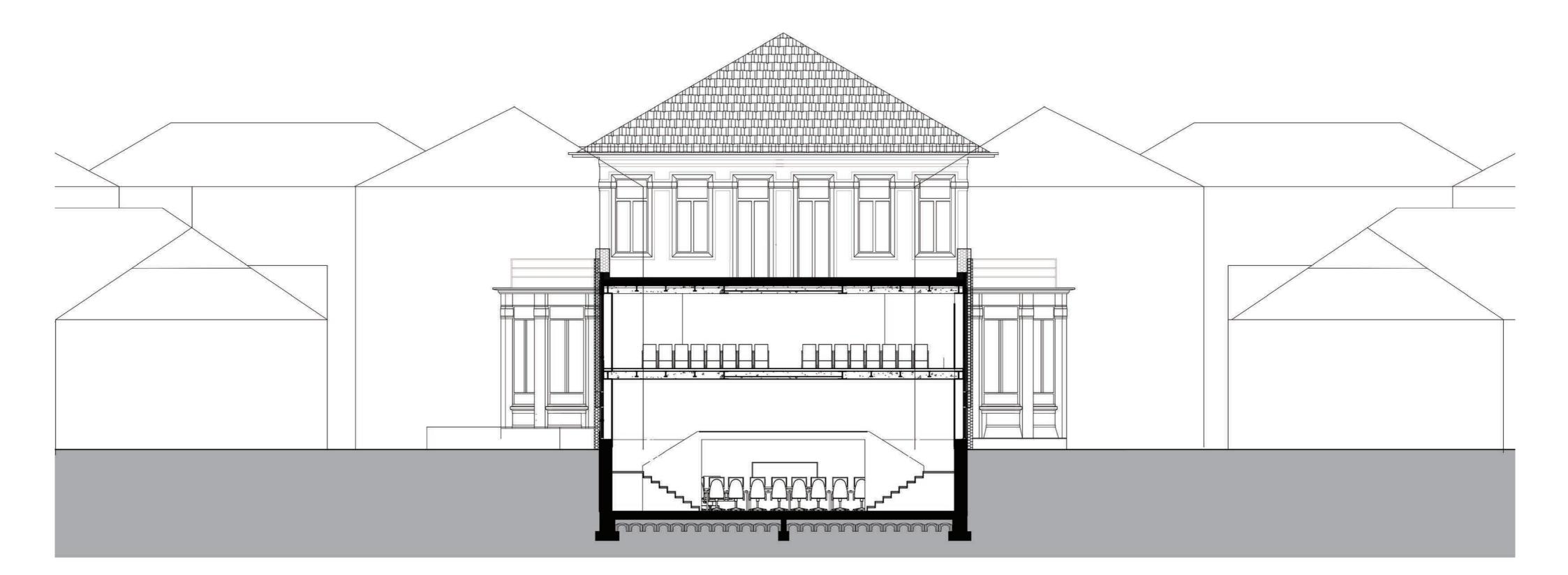






Longitudinal Section A-A' 1:100





Cross Section B-B' 1:100

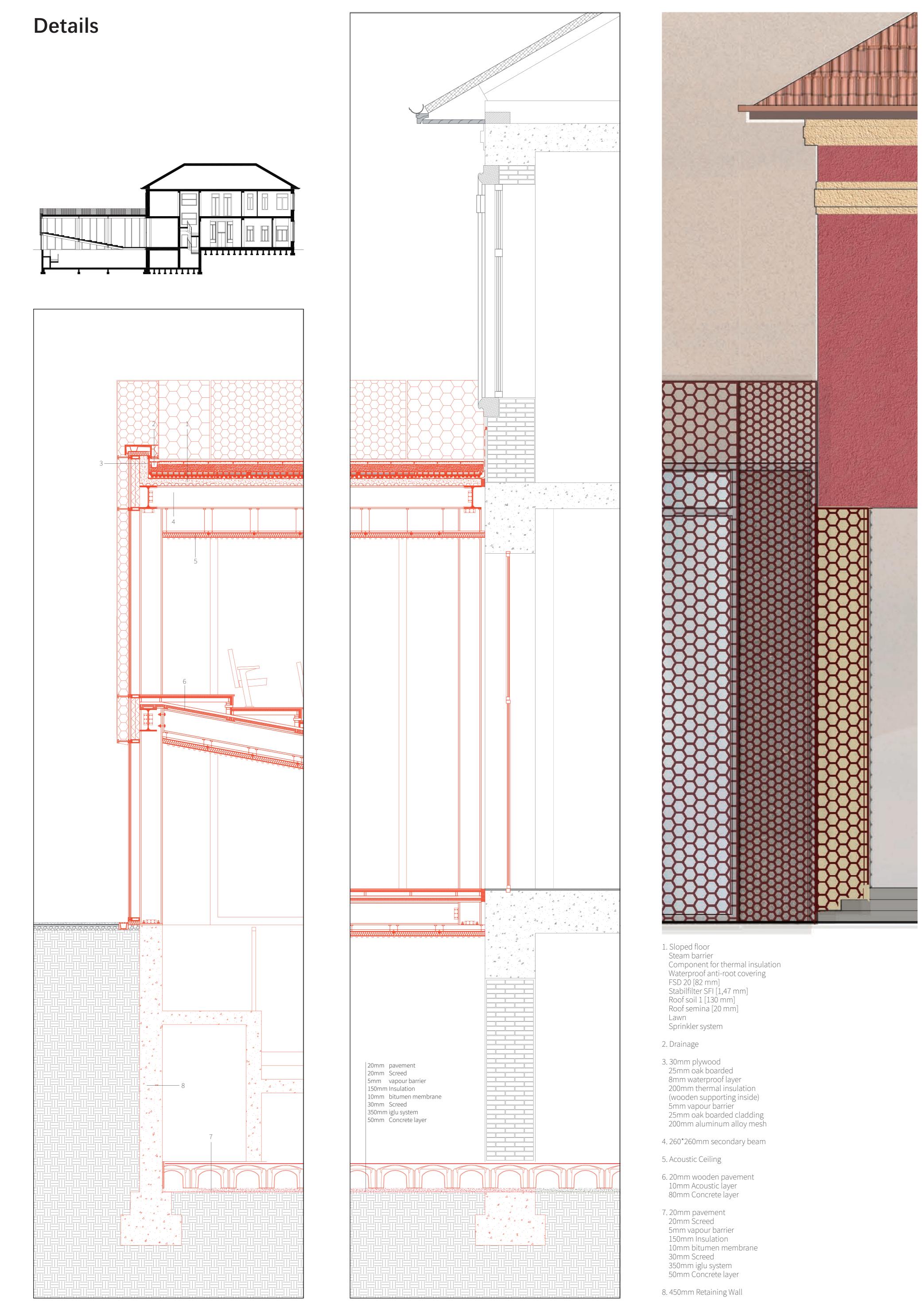
Date: 18.07.2023



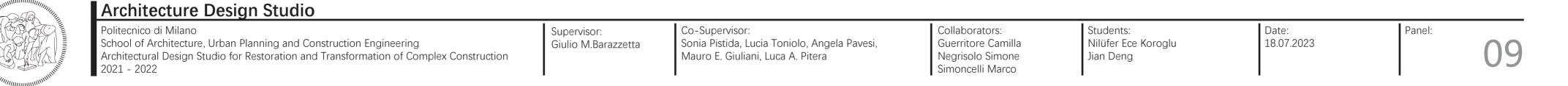
Architecture Design Studio

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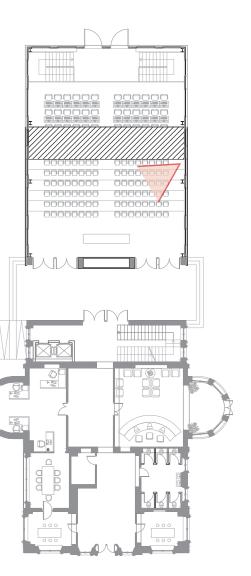
Collaborators: Guerritore Camilla Negrisolo Simone Simoncelli Marco Students: Nilüfer Ece Koroglu Jian Deng

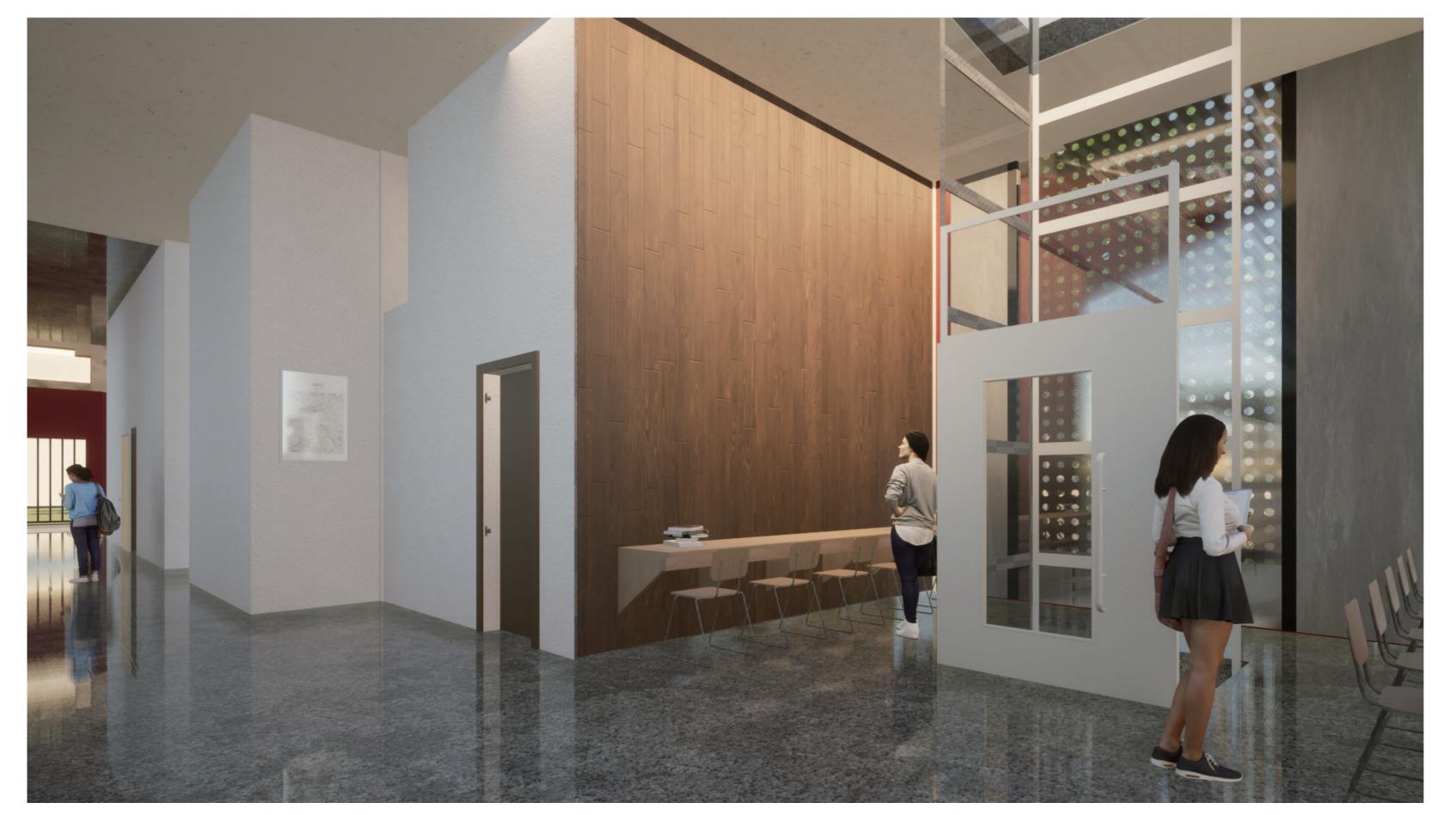


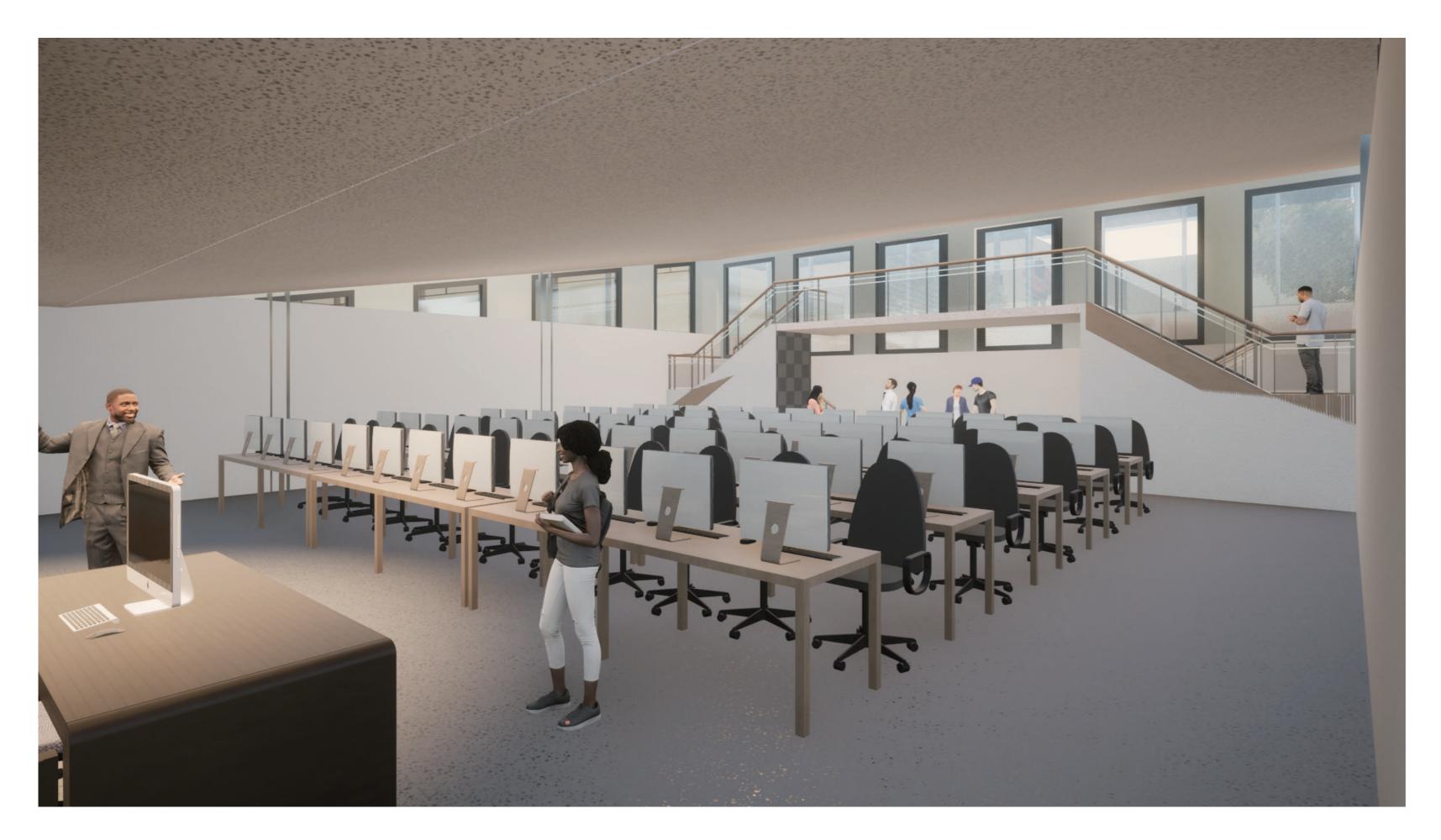


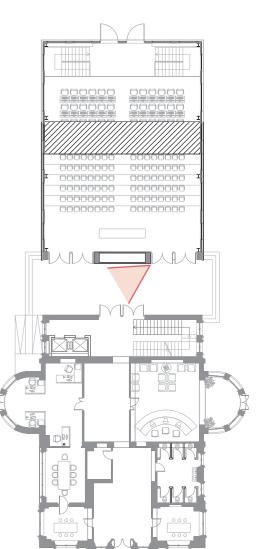


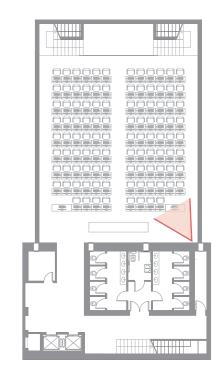














Architecture Design Studio

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Mauro E. Giuliani, Luca A. Pitera

Collaborators: Guerritore Camilla Negrisolo Simone Simoncelli Marco Students: Nilüfer Ece Koroglu Jian Deng Date: 18.07.2023

10

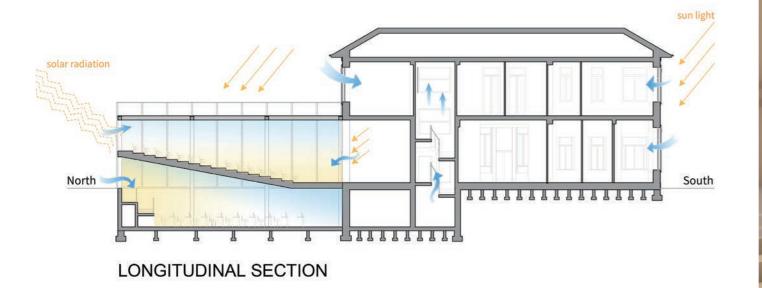
Sustainability Concept

Susrainable approch

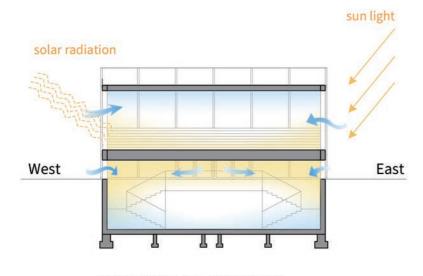
The combination of green roof and sun shading system allows us to save of energy.

We decided to use recycled materials as recycled steel and concrete for the new structure, to save CO2. We also opted for an intervention that would limit the works on the existing building to the minimum, to reduce the quantity of carbon dioxite produced in the process of demolition.

After calculations we plan to design green areas with trees to balance what we consumed.











TECHNICAL DATA

Thickness of the system (without vegetation)	cm ca.	23,00
Weight when saturated (without vegetation)	kg/mq	192,00
Total amount of water for the vegetation	l/mq	69,00
Air volume at pFI	l/mq	64,50

All technical data in this document are indicative values, used to describe the product. DAKU might modify the data when improving to product: clients should verify to have the latest versions of the documents

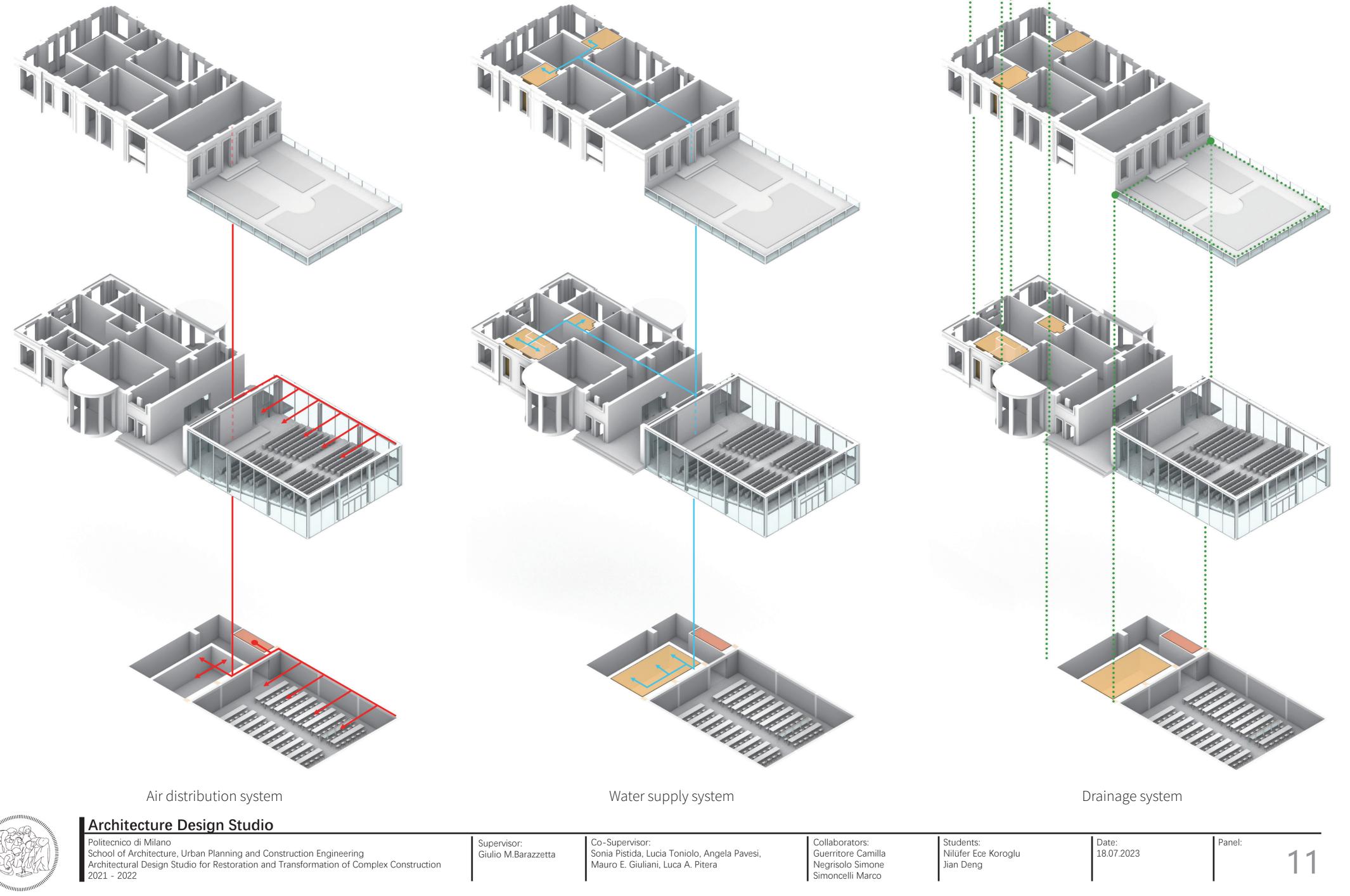
SYSTEM COMPONENTS

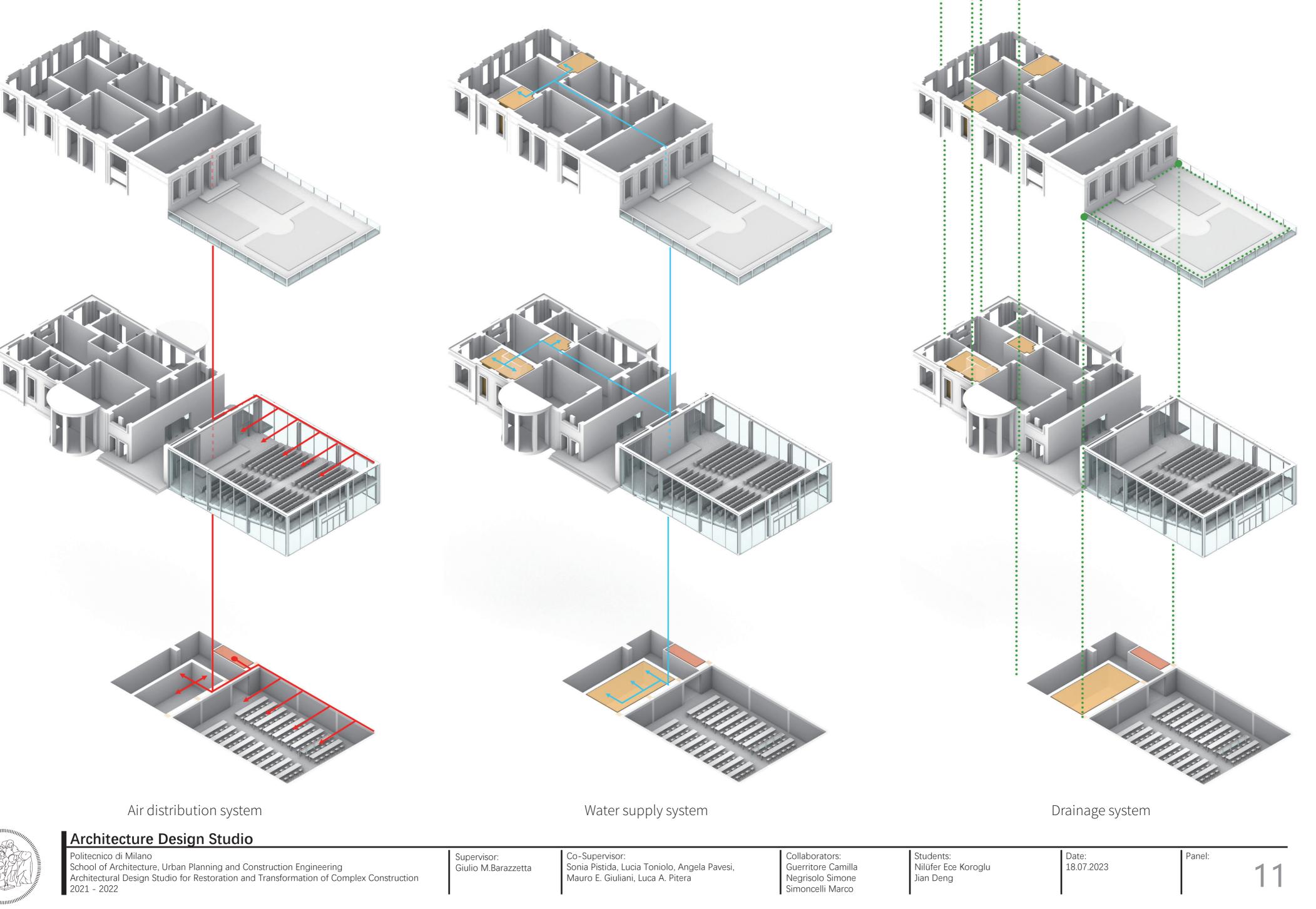
- 1. Grass
- 2. DAKU ROOF SOIL 1 (substrate, 15 cm thick)
- 3. DAKU STABILFILTER SFI (Filter)

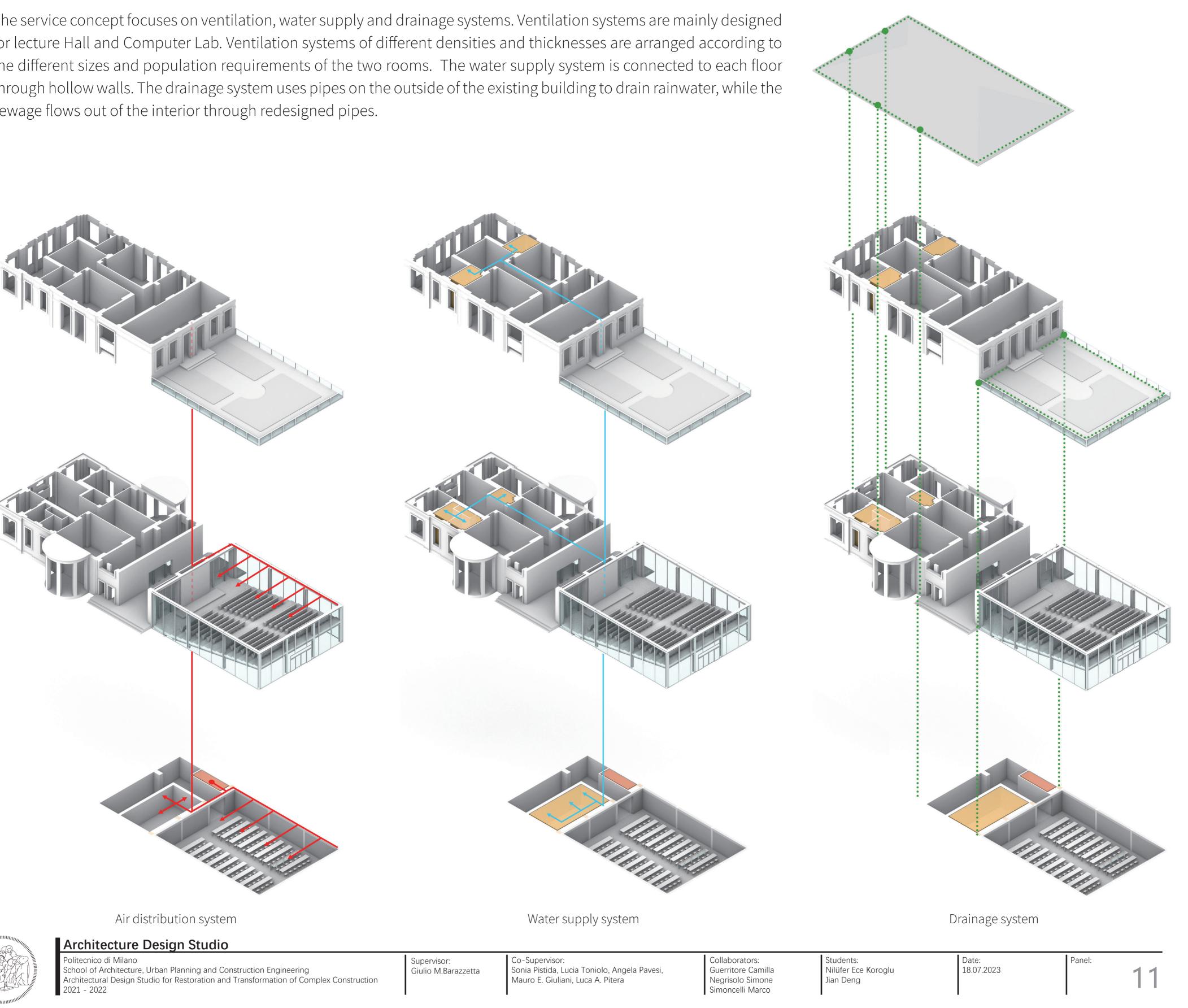
4. DAKU FSD 20 (component for drainage and water storage)

Services Concept

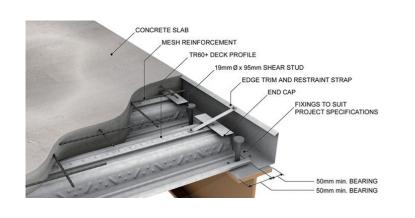
The service concept focuses on ventilation, water supply and drainage systems. Ventilation systems are mainly designed for lecture Hall and Computer Lab. Ventilation systems of different densities and thicknesses are arranged according to the different sizes and population requirements of the two rooms. The water supply system is connected to each floor through hollow walls. The drainage system uses pipes on the outside of the existing building to drain rainwater, while the sewage flows out of the interior through redesigned pipes.

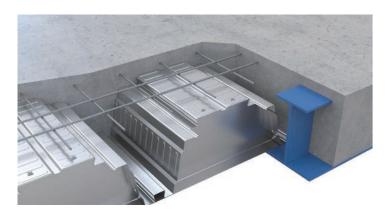




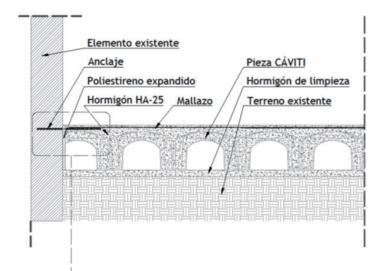


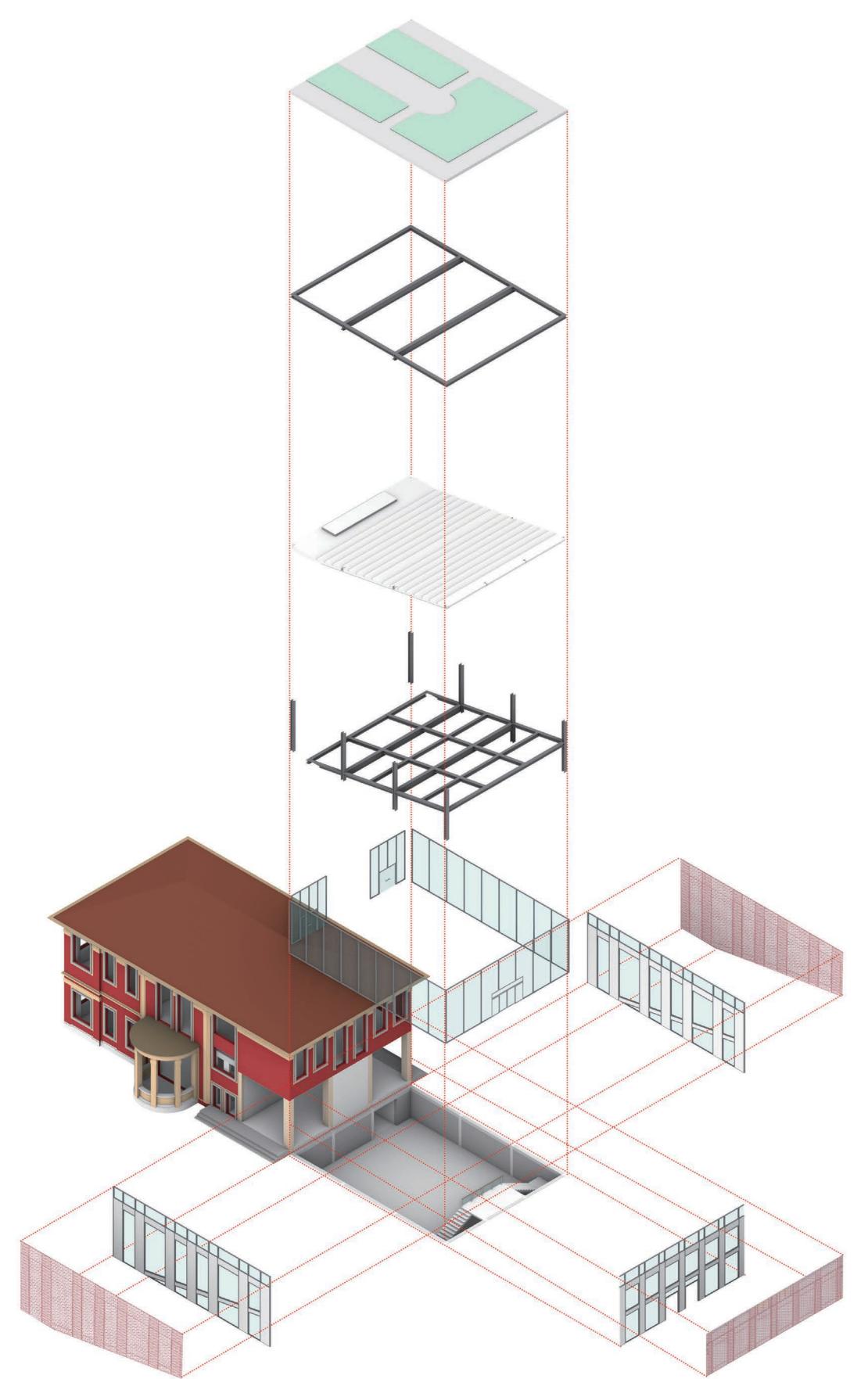
Isometric Assembling View of the Loadbearing Structure











ROOF Profiled Steel Sheet

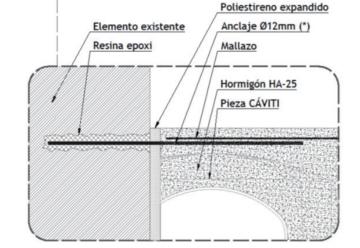
FRAME H - Section Steel

STAIRS Profiled Steel Sheet

COLUMN H - Section Steel







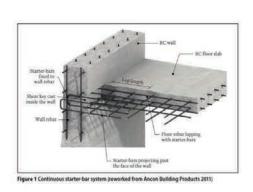




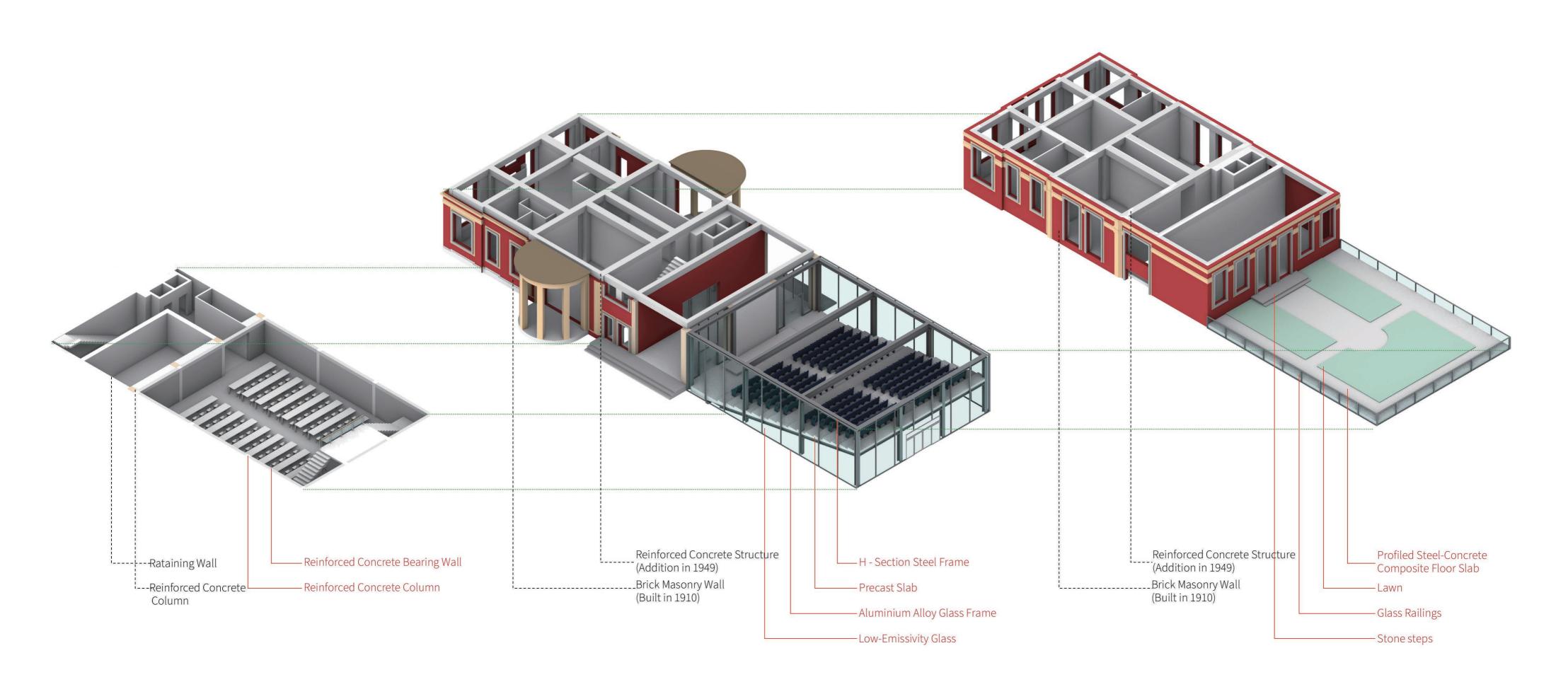
ENVELOPE Aluminum alloy perforated plate



COLUMN Reinforced Concrete Structure



BEARING WALL Reinforced Concrete Structure



Architecture Design Studio						
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