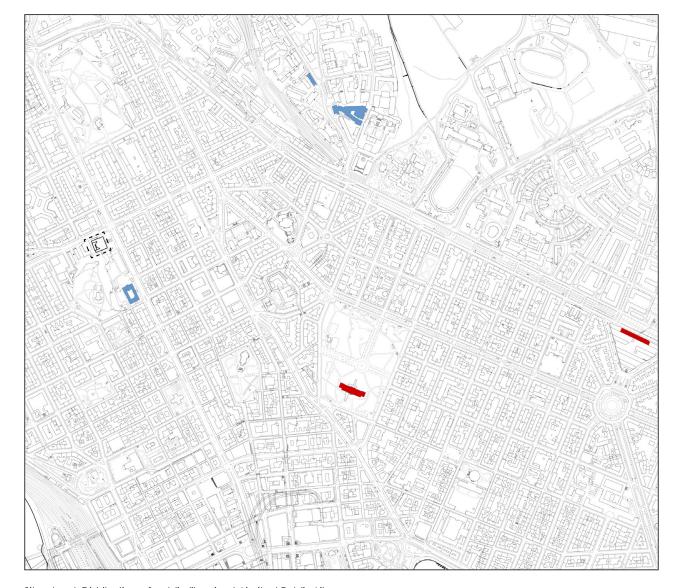
Stockholm City Library Extension

A urban sanctuary for reading and learning

2023/24 Graduation Project Lenore Liu

Design Mentor | Susanne Pietsch Technology Mentor | Matthijs Klooster Research Mentor | Sereh Mandias Site

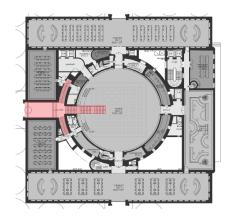


Site plan | Distribution of public libraries | Limited Public Library

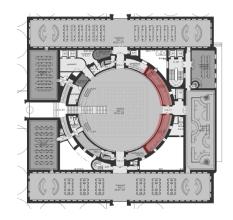


Urban pattern | Stockholm City Library(Isolated) and the enclosed urban blocks

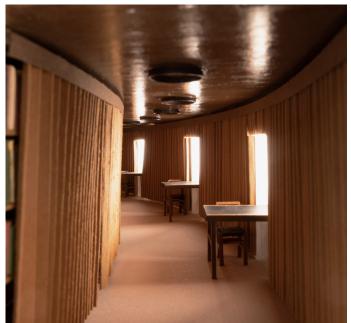
Poché







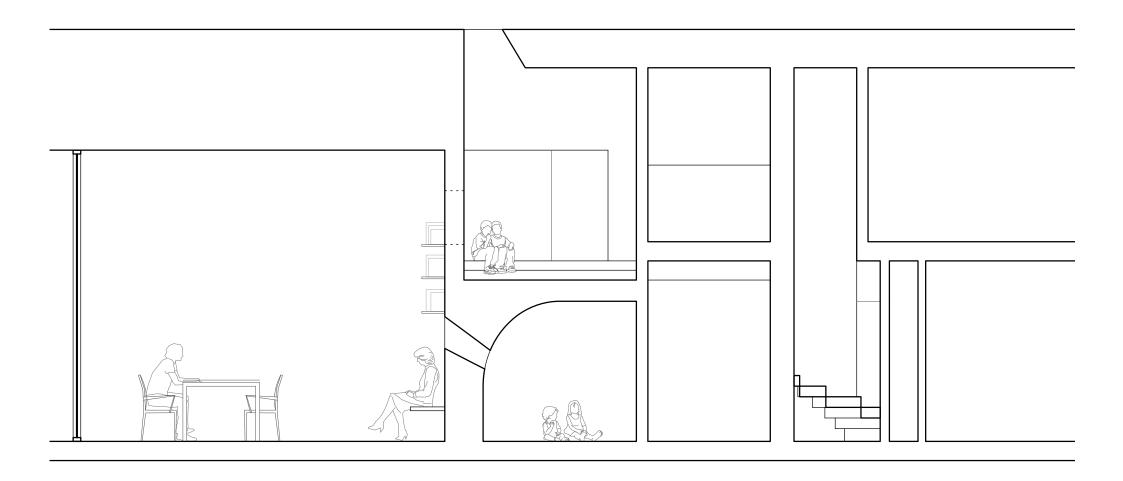




1:25 model study (group) | Poché



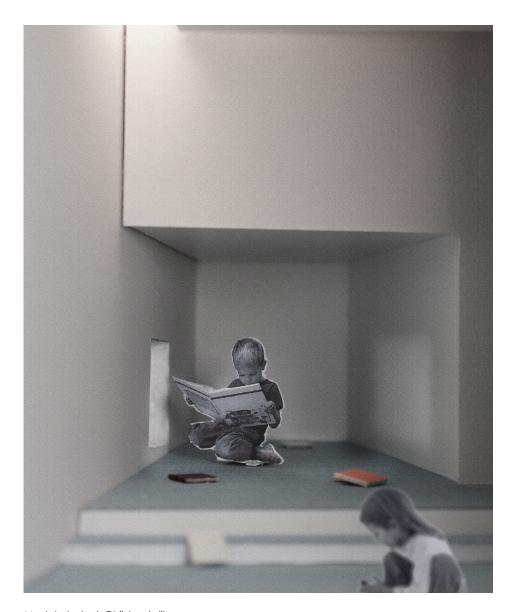
1:25 model study | Imaginary room within a library



Section | Imaginary room within a library | Interplay of spaces with different scales



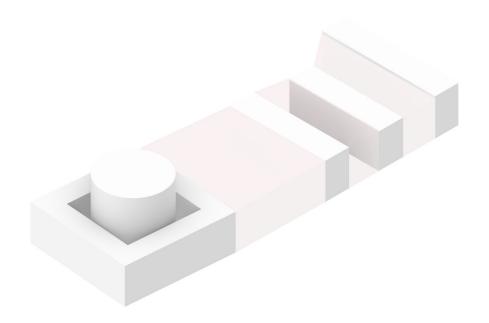
Model photo | Public reading space





Model photo | Children's library

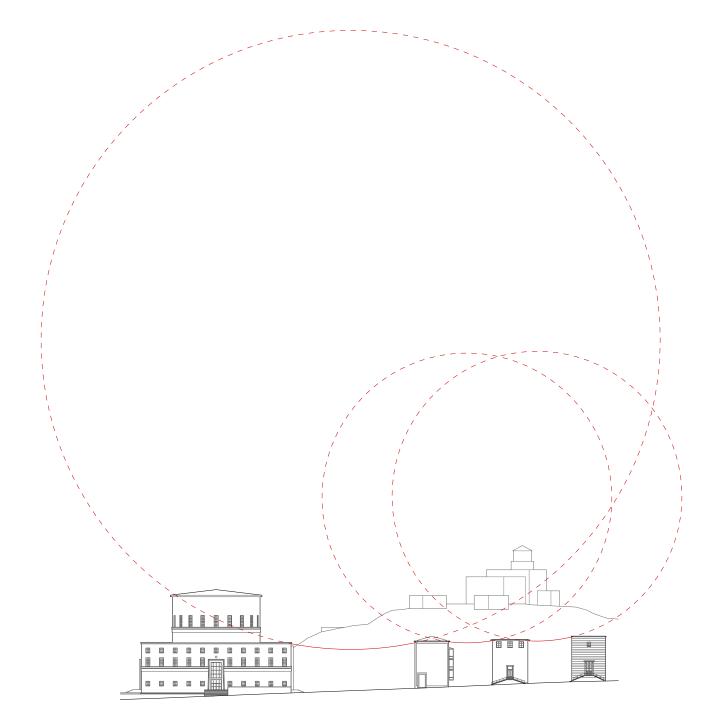
Approach



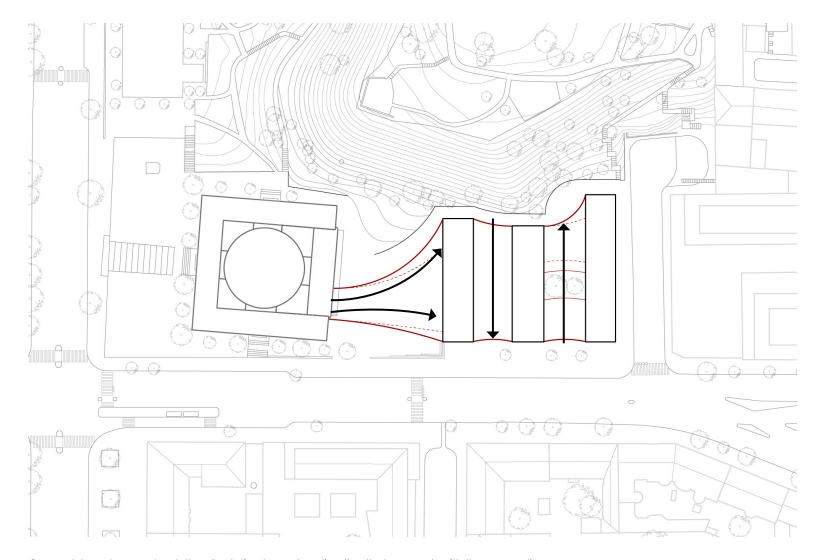
Concept | add new volume to enclose the library block



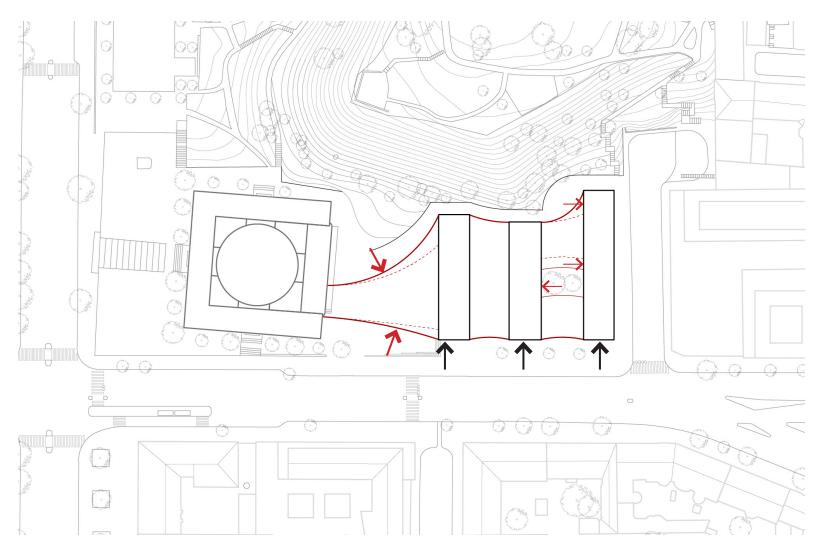
Concept | Free form curves connect existing buildings



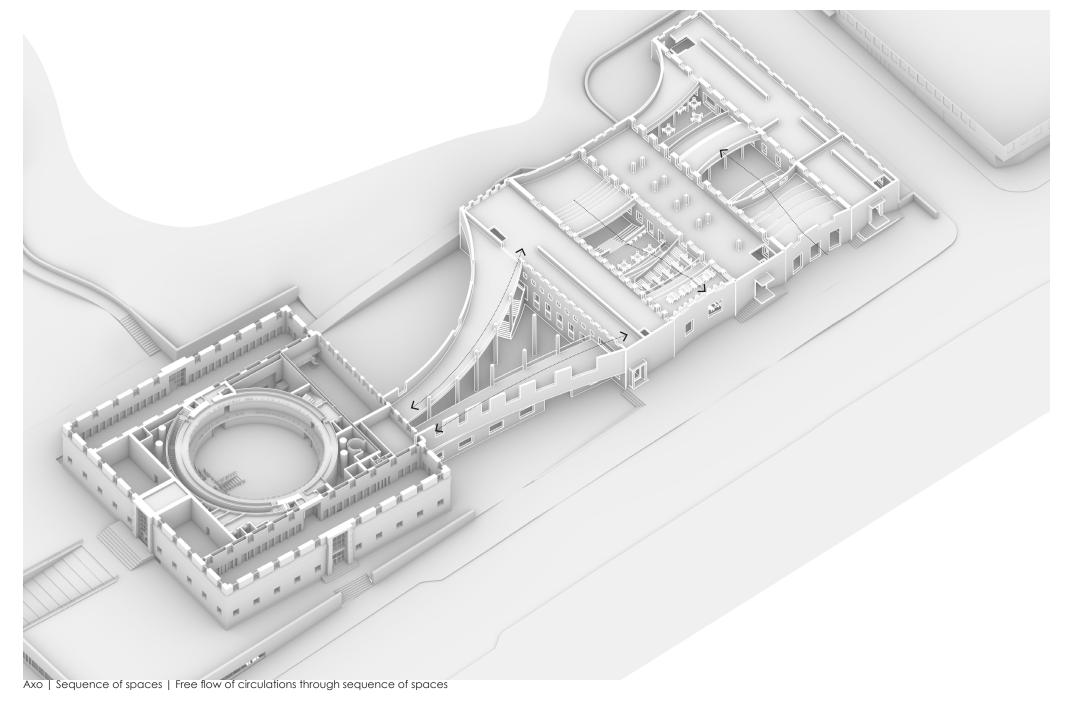
Concept | Free form curves to collaborate the height differences of each existing buildings

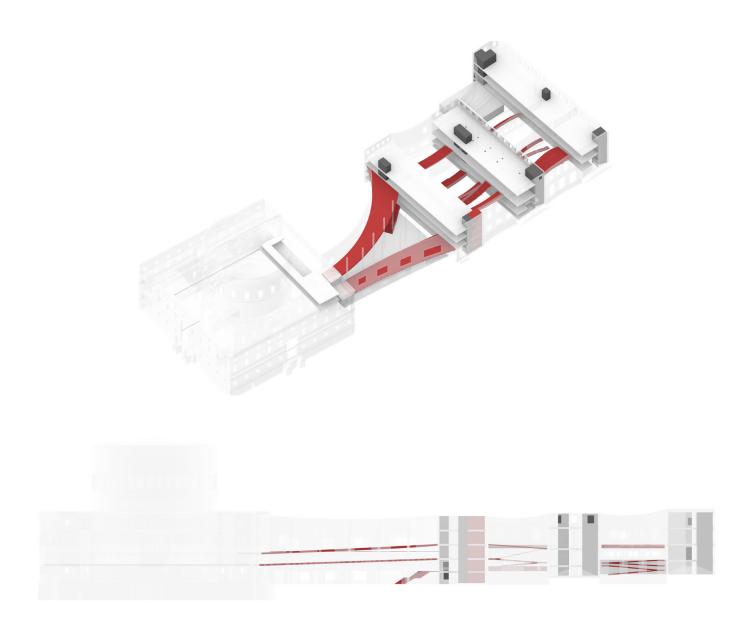


Concept | each space leads the circulation towards a direction that connects with the surrounding

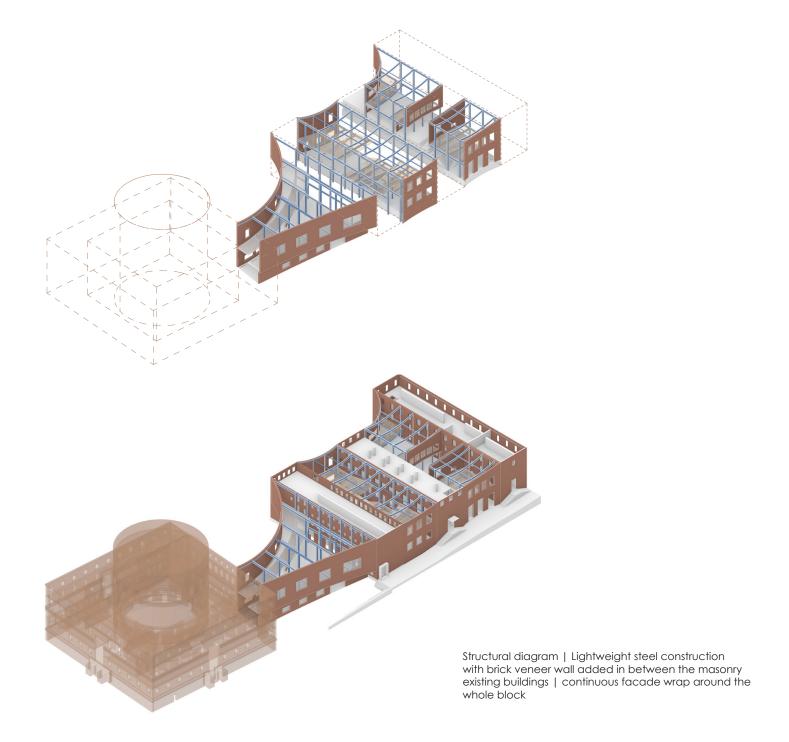


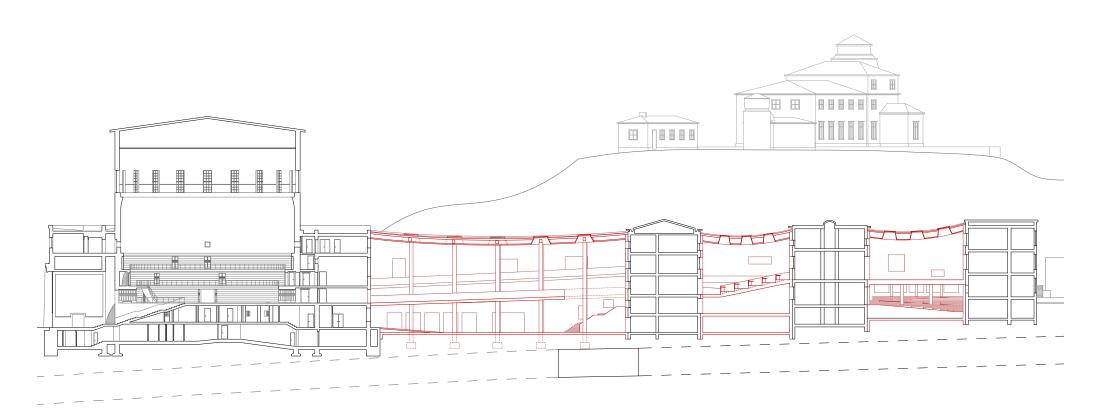
Concept | Entrances of the existing buildings are kept with new added entrances form a permeable building block



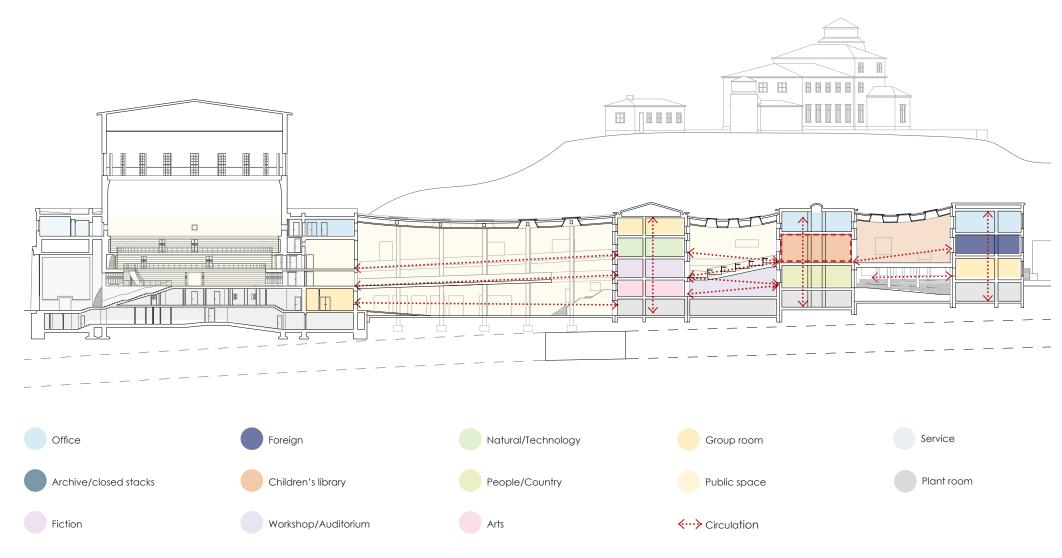


Circulation diagram | Vertical circulation -existing staircases of the annexes | Horizontal ramps connect the existing buildings together

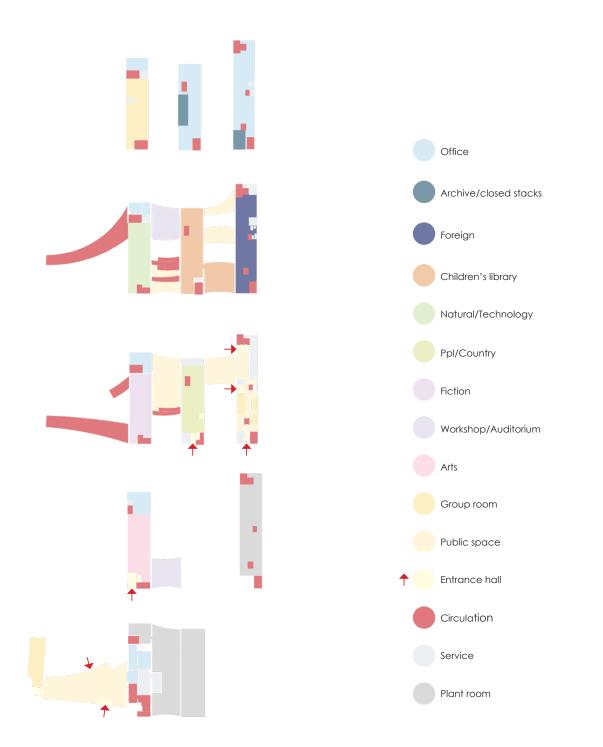




Long section | New added spaces and the existing



Function distribution | Added space as public reading space, existing as the book repository for different book collections



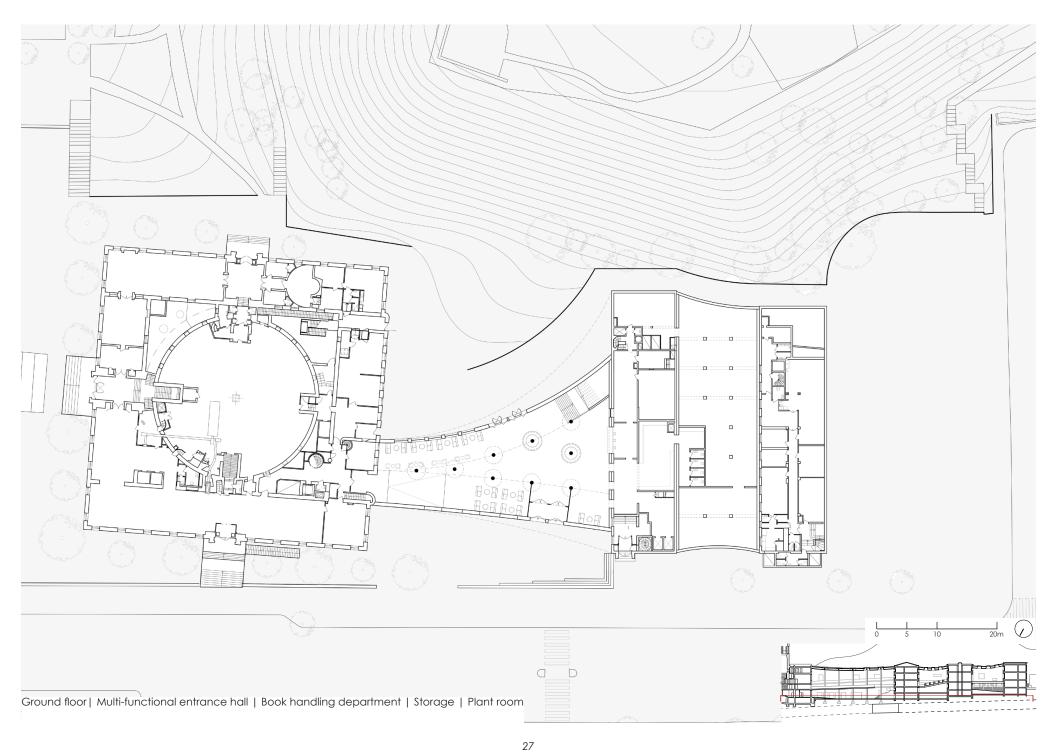


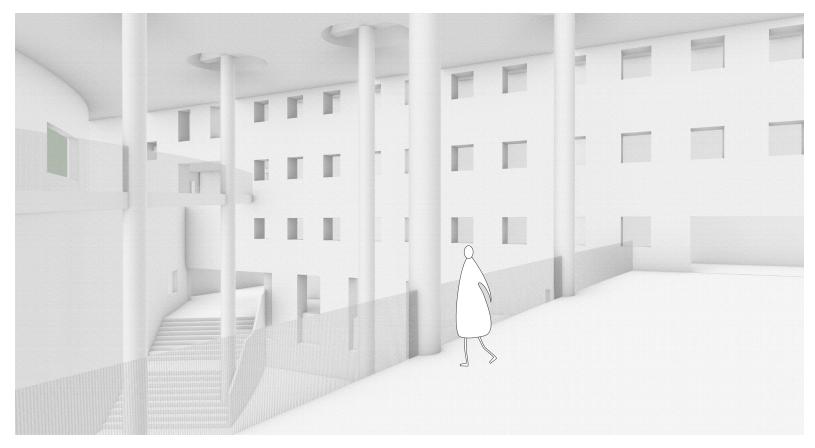
Facade Material | The new building has a brick wall facade rendered with similar color of the main library in a darker shade | Continuation of the Asplund's main library but still highlights it

The new Library

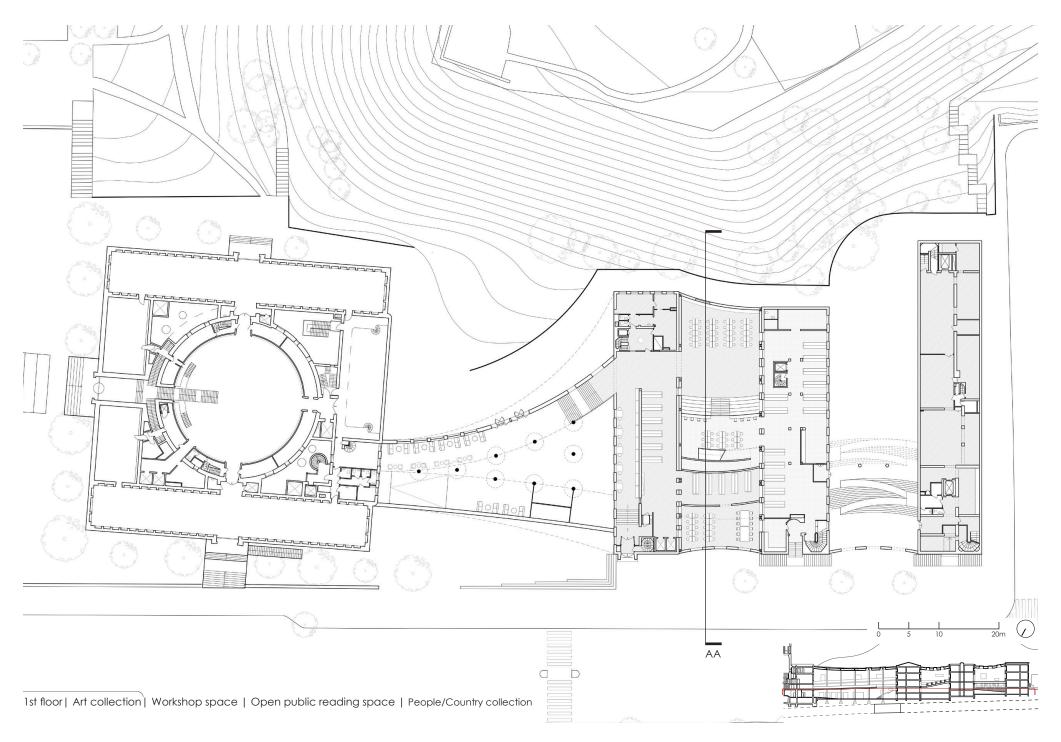


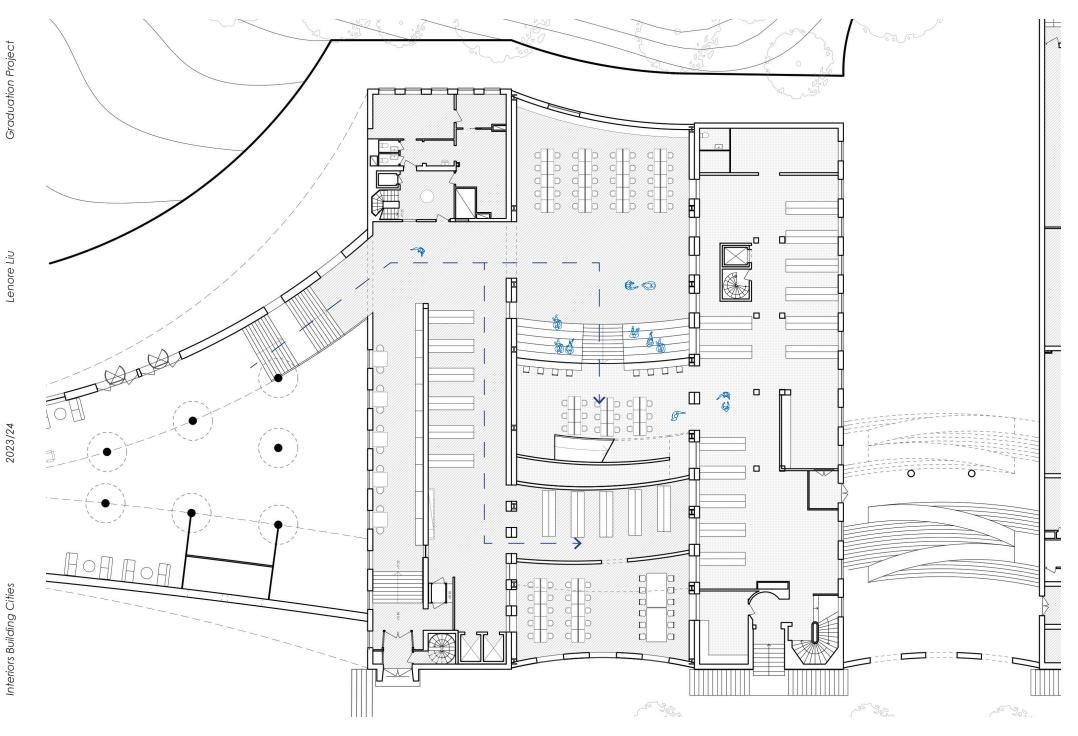
Street view | Approaching the entrance hall





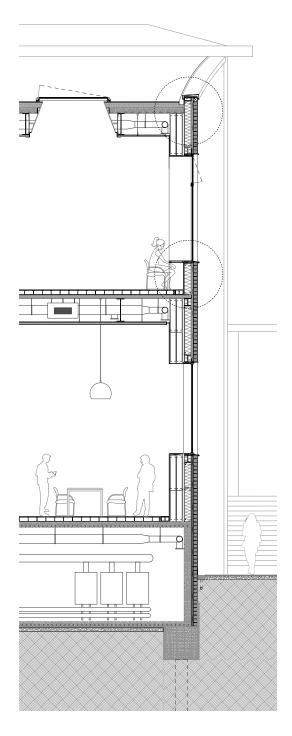
Interior collage | Entrance hall | Converge and diverge the circulation from annex and main library | Multifunctional space |







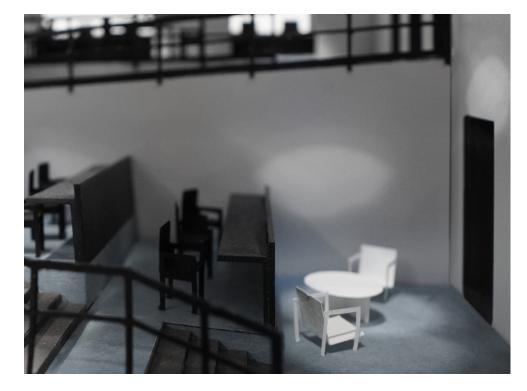
1:50 Model | Large open public reading area with ramps and platform connecting to different levels

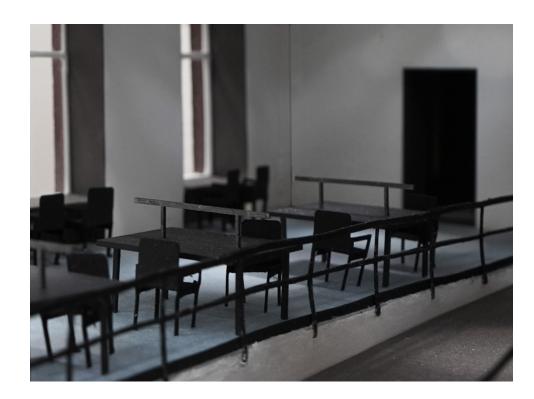


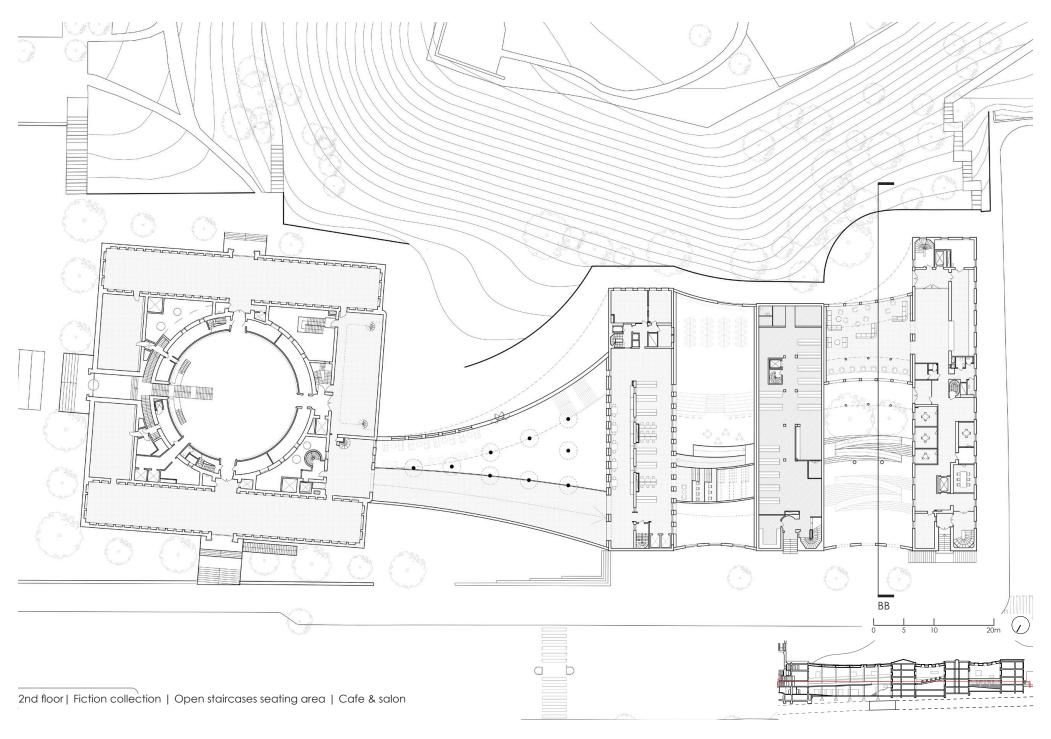


Facade Section | Relationship between interior and exterior









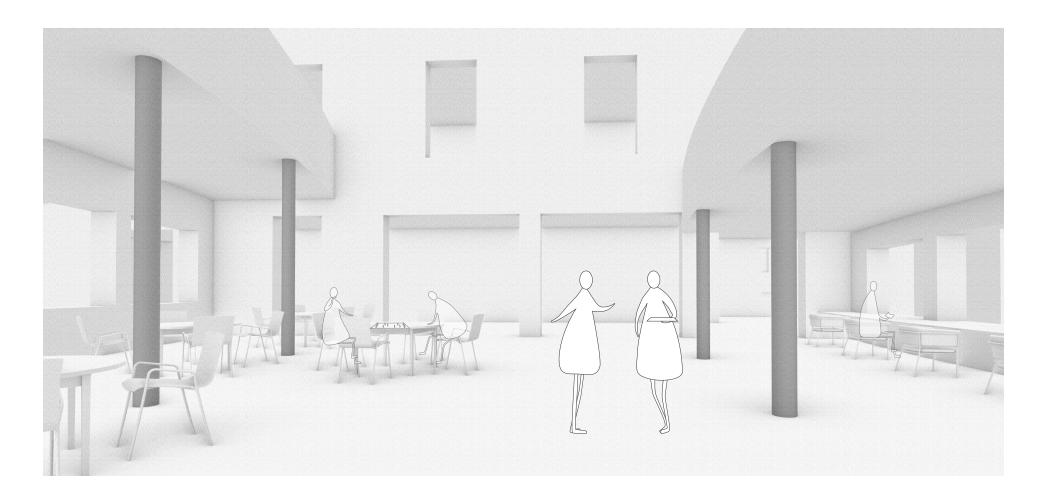
Graduation Project

Lenore Liu

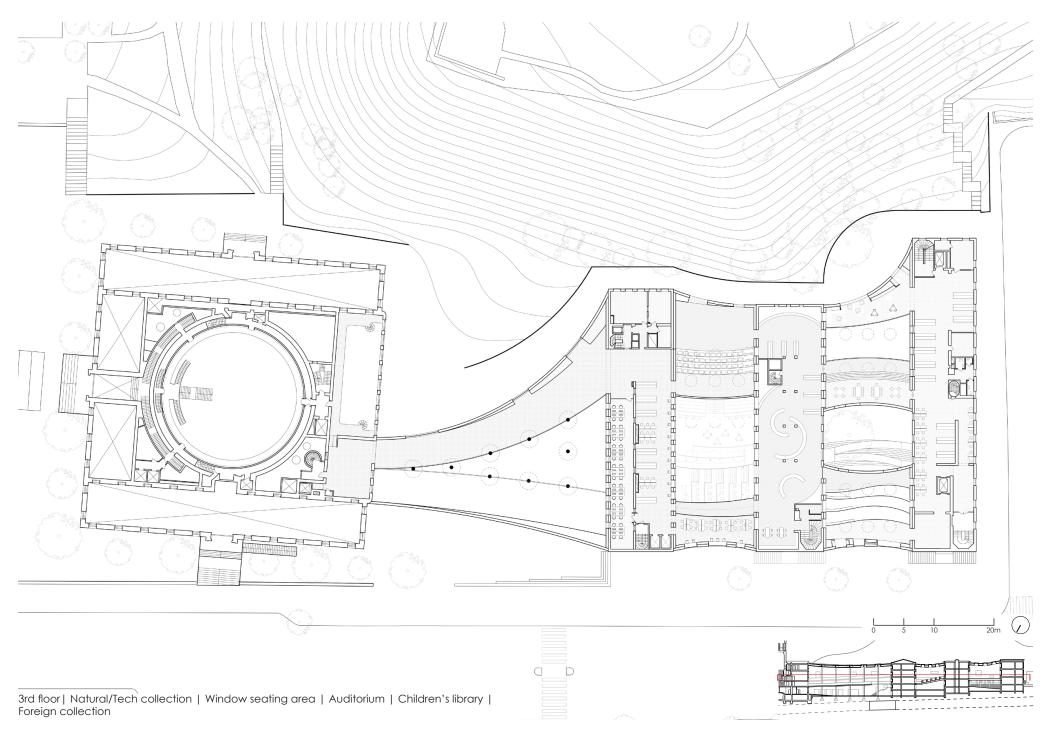
2023/24

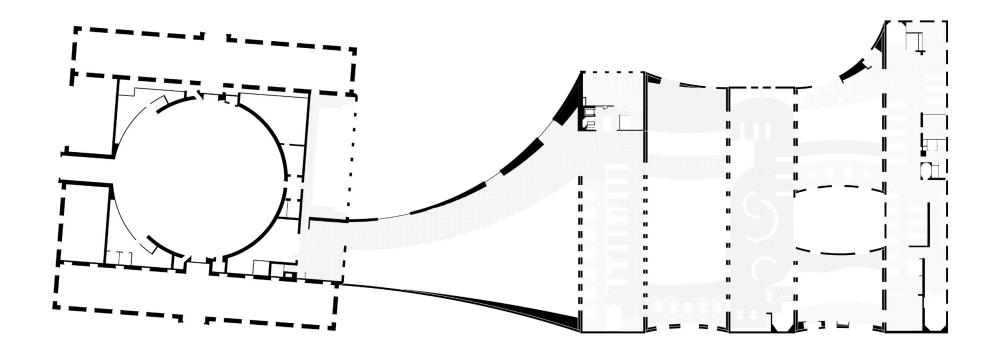
Interiors Building Cities

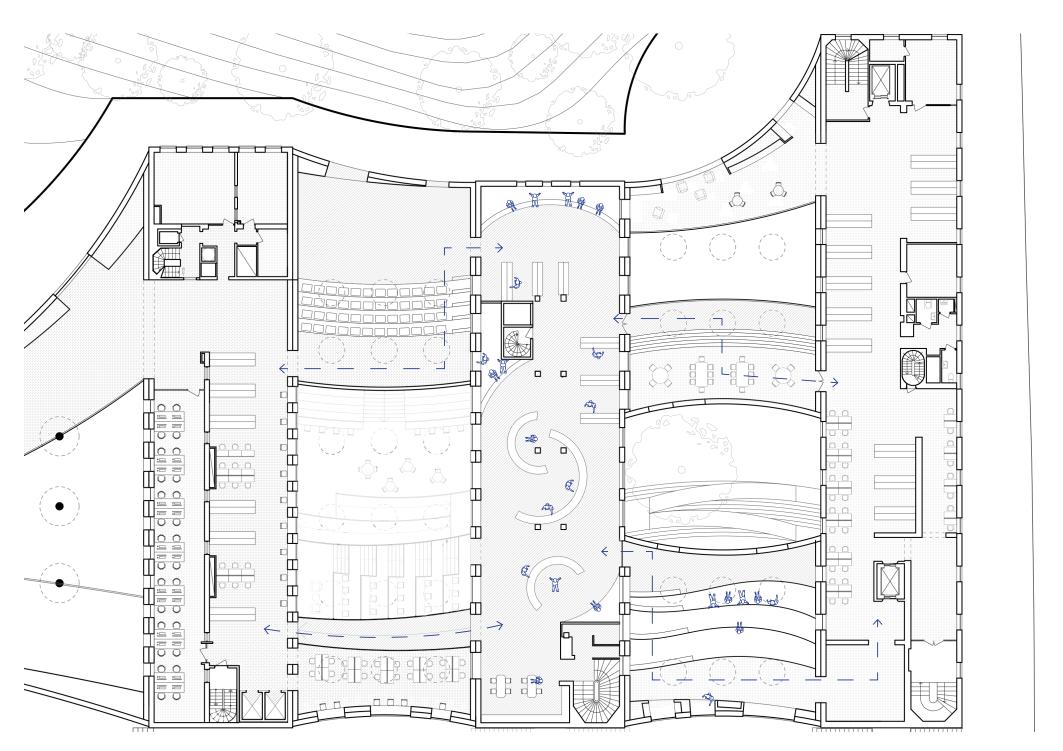




Interior collage | Cafe and Salon | A place surrounded by nature to allow engagements and conversations between different social groups to happen

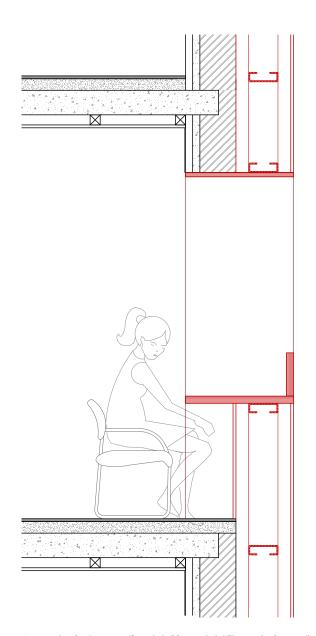








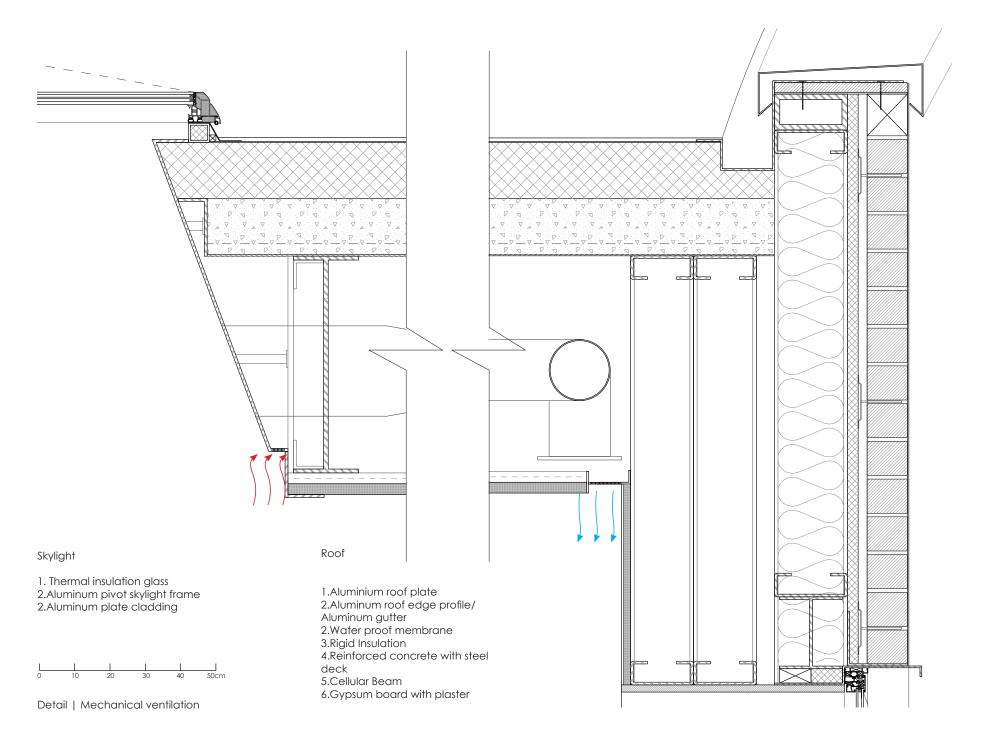
1:50 Model | Children's Library | The curved modular bookshelves are arranged around the existing columns to form space for reading, the original window openings of annex building become the seating space for children

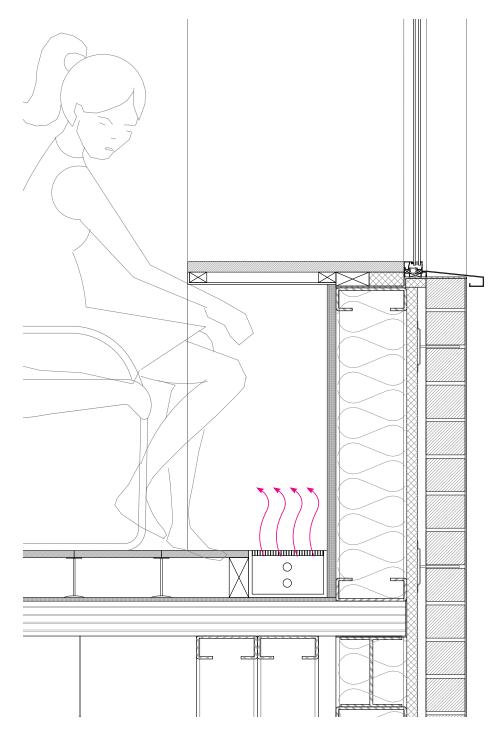




Annex 1 window section | 1:50 Model | The exterior wall of the annex become the interior wall to the in between space | Window openings become individual seating space

Details & Climate





Window

- 1. Aluminum window profile
- 2. Thermal glazing

Facade/Seating area

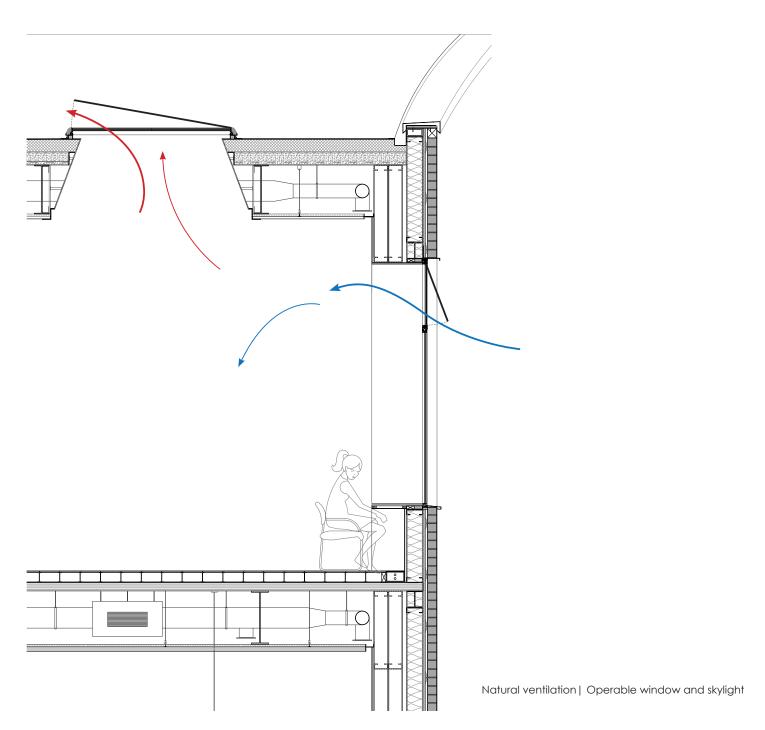
- 1.Wall render
- 2.Brick veneer
- 2.Cavity
- 3.Rigid insulation
- 4.Steel stud wall with insulation
- 5.Gysumboard with wall finish
- 6. Wood desk top with steel frame

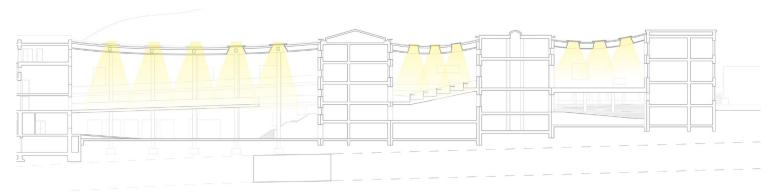
Floor

- 1.CLT floor on steel cellular beam 2.Raised floor system with wood surface 3.Corner radiator for heating

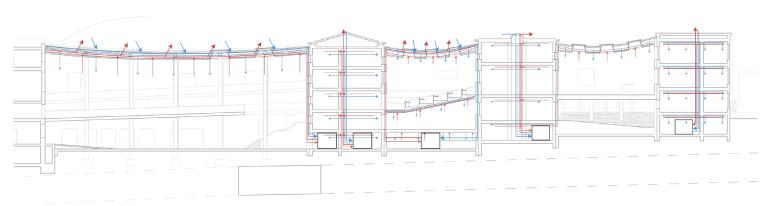


Detail | Floor heating

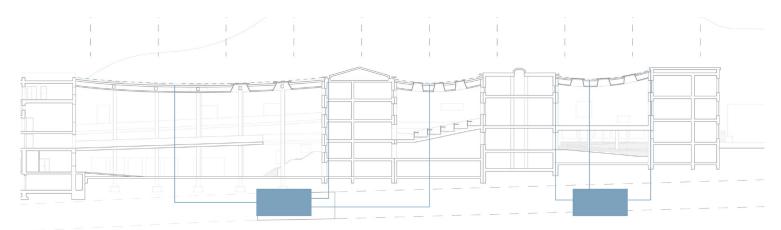




Skylight | natural light into the space



Mechanical ventilation ducts | air in/out from the roof



Rainwater | flow to the lowest point of the roof through voids in the facade into the ground