

RELINK: LEIDEN UNIVERSITY RISING ABOVE THE EXISTENT

Leiden University, Faculty of Humanities

PROJECT DRAWINGS

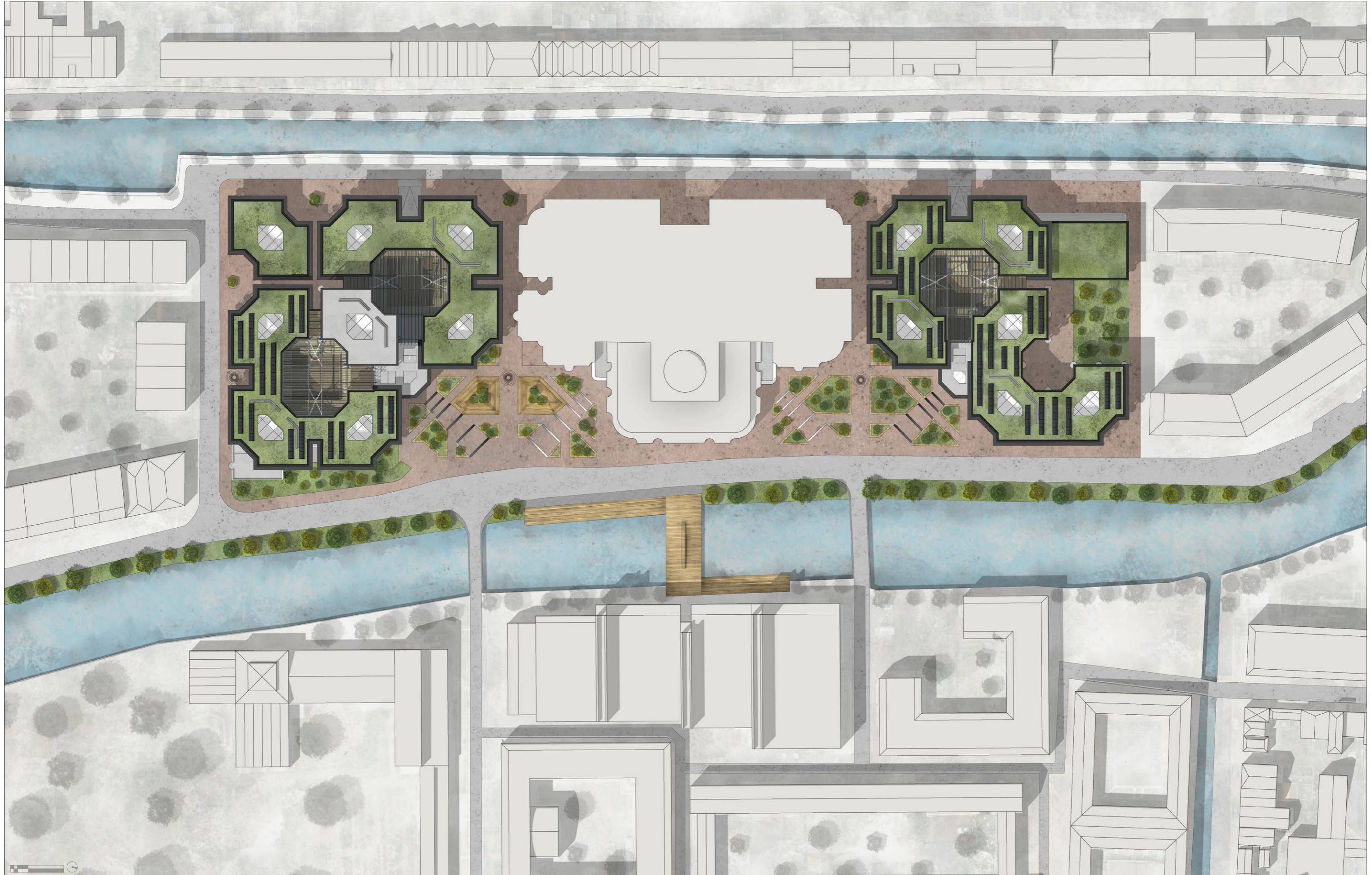


YIANNOS MEXIS

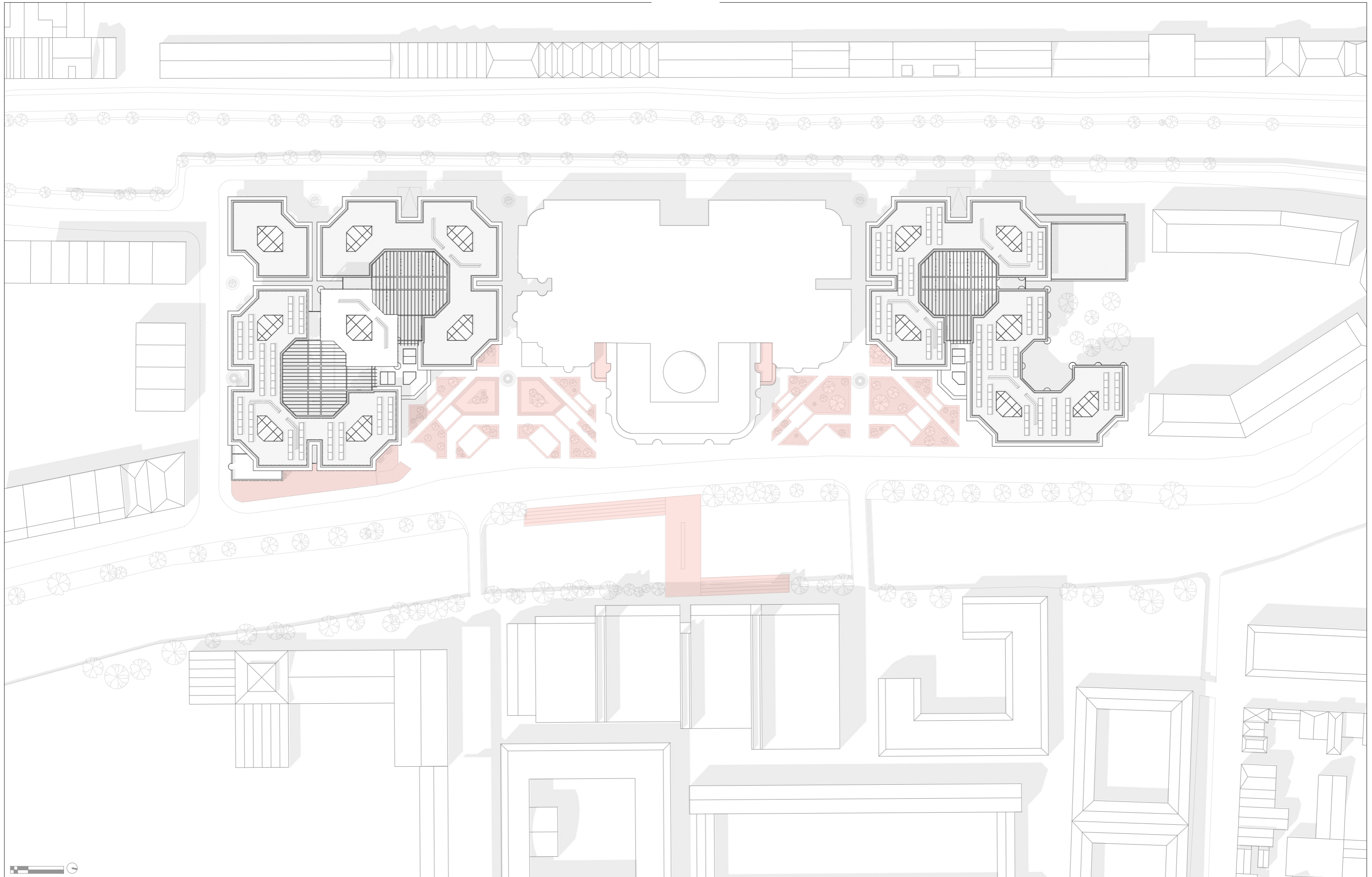
Axonometric View



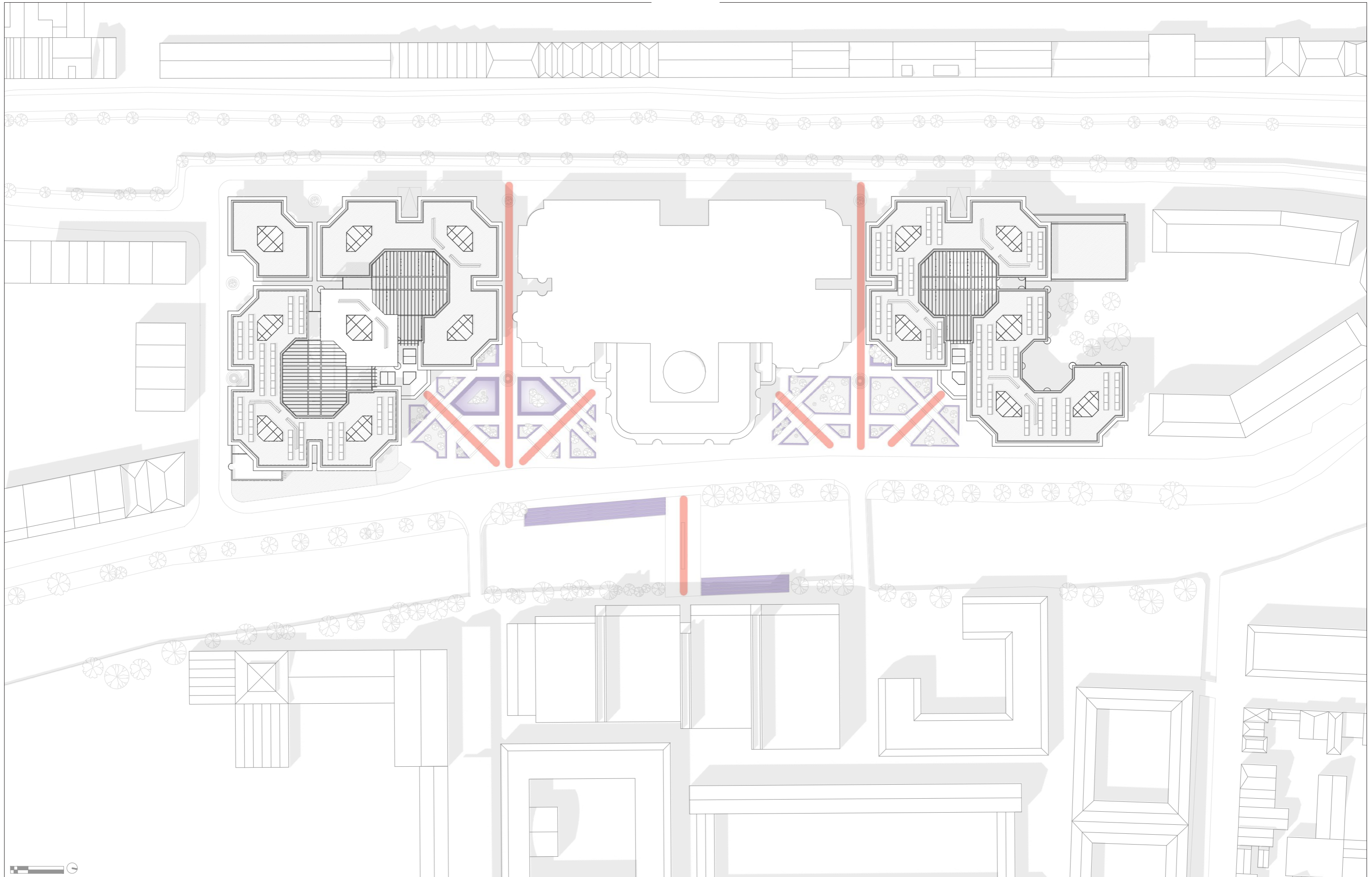
Masterplan



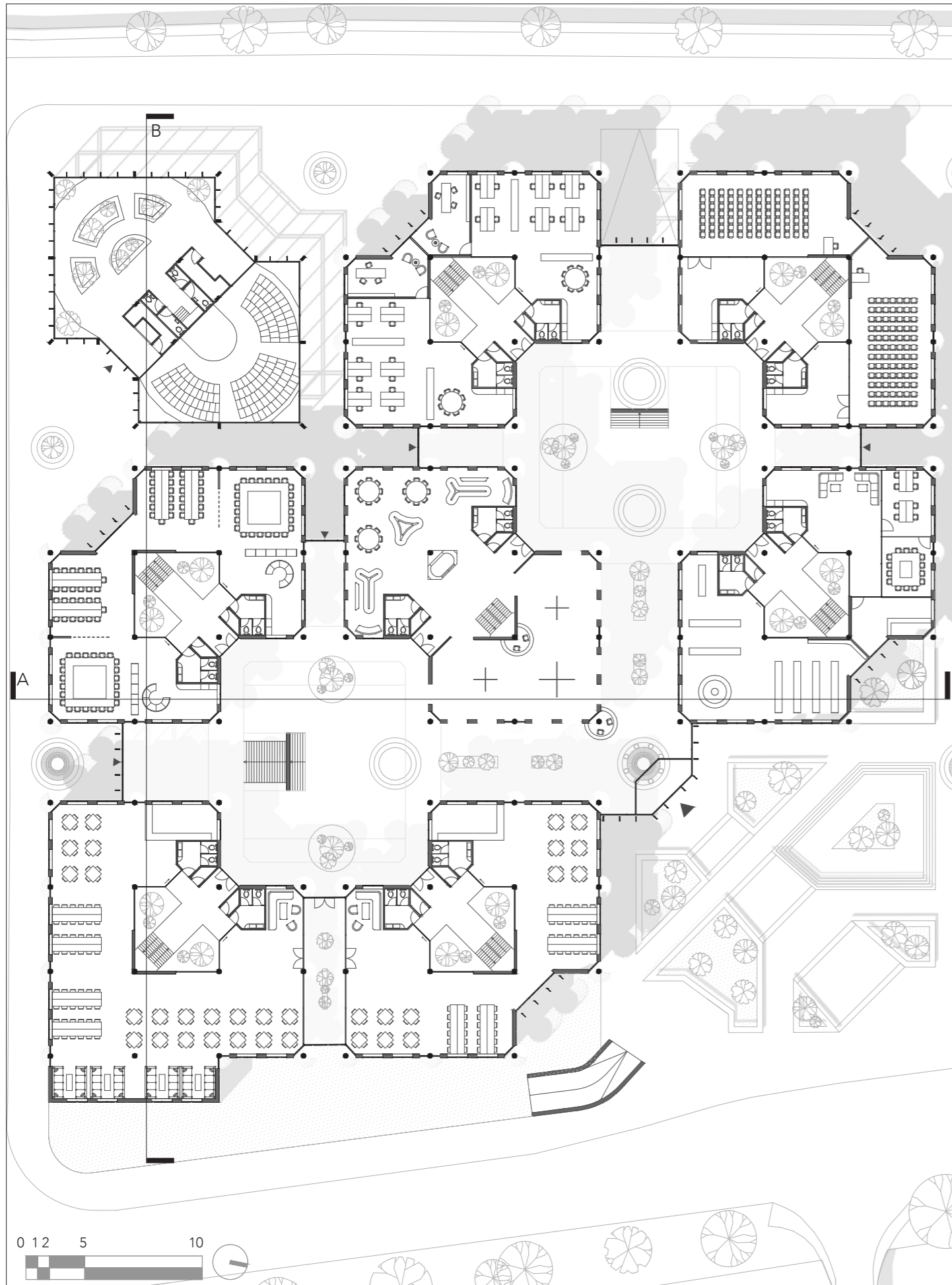
Masterplan



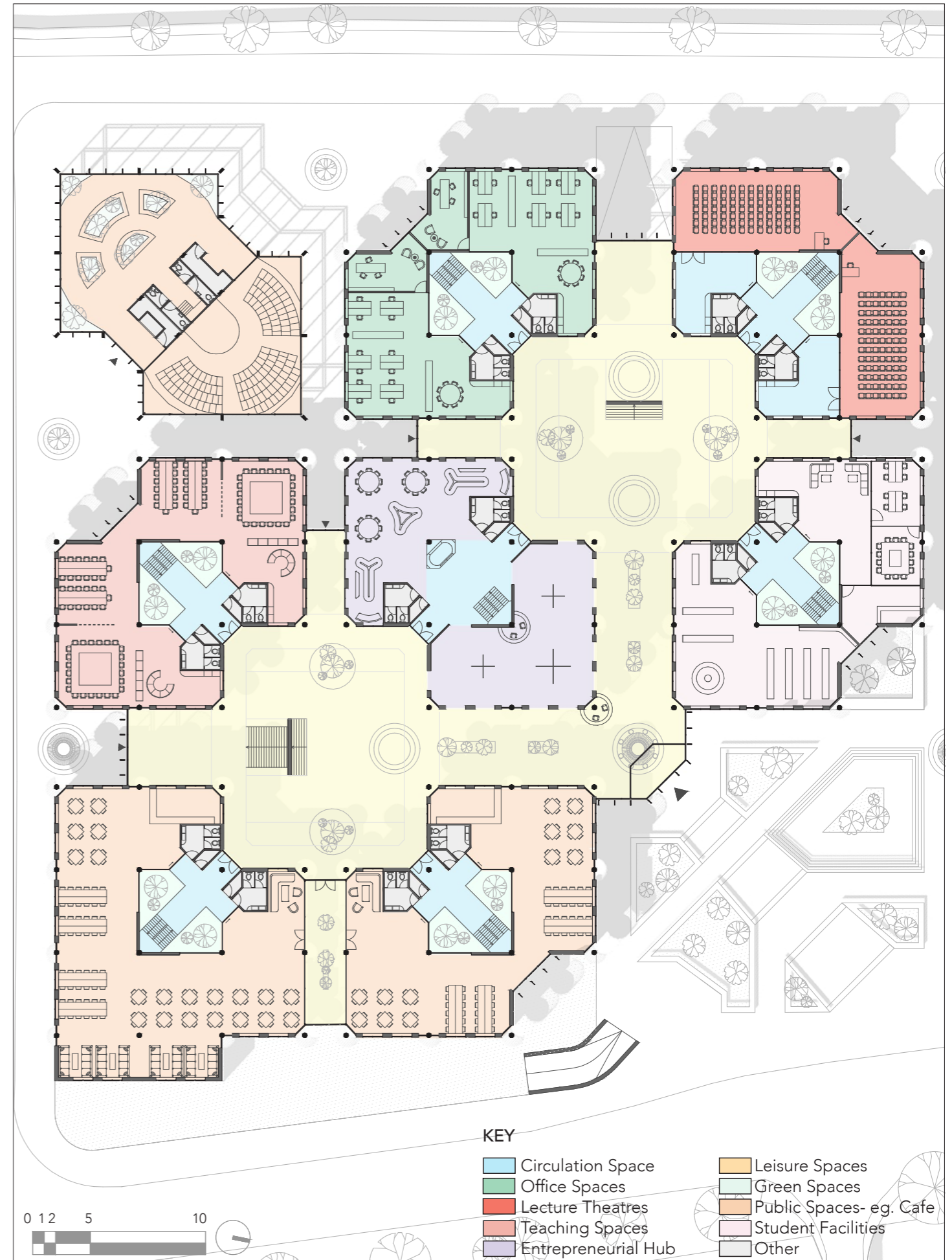
Masterplan



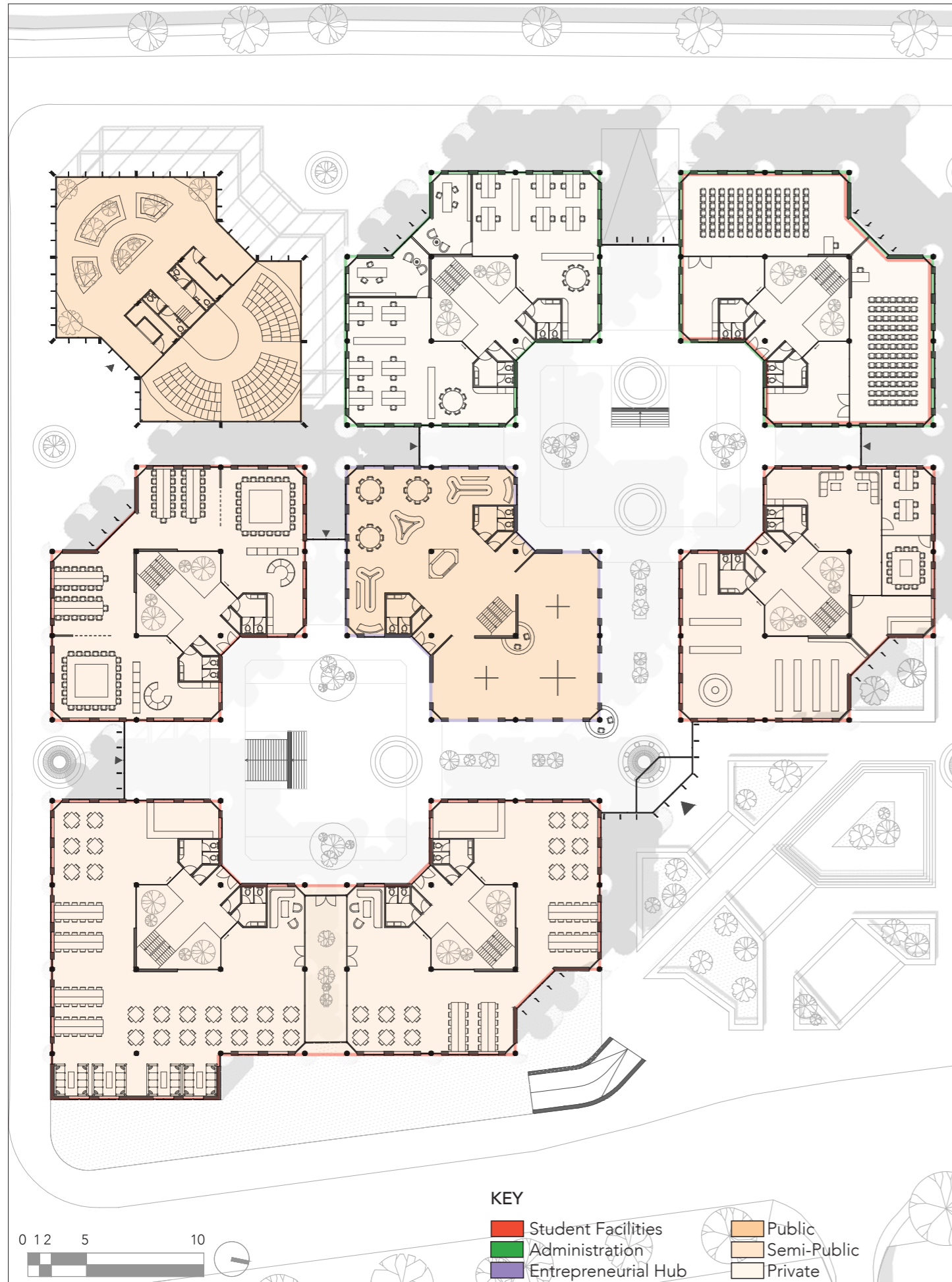
Ground Floor Plan



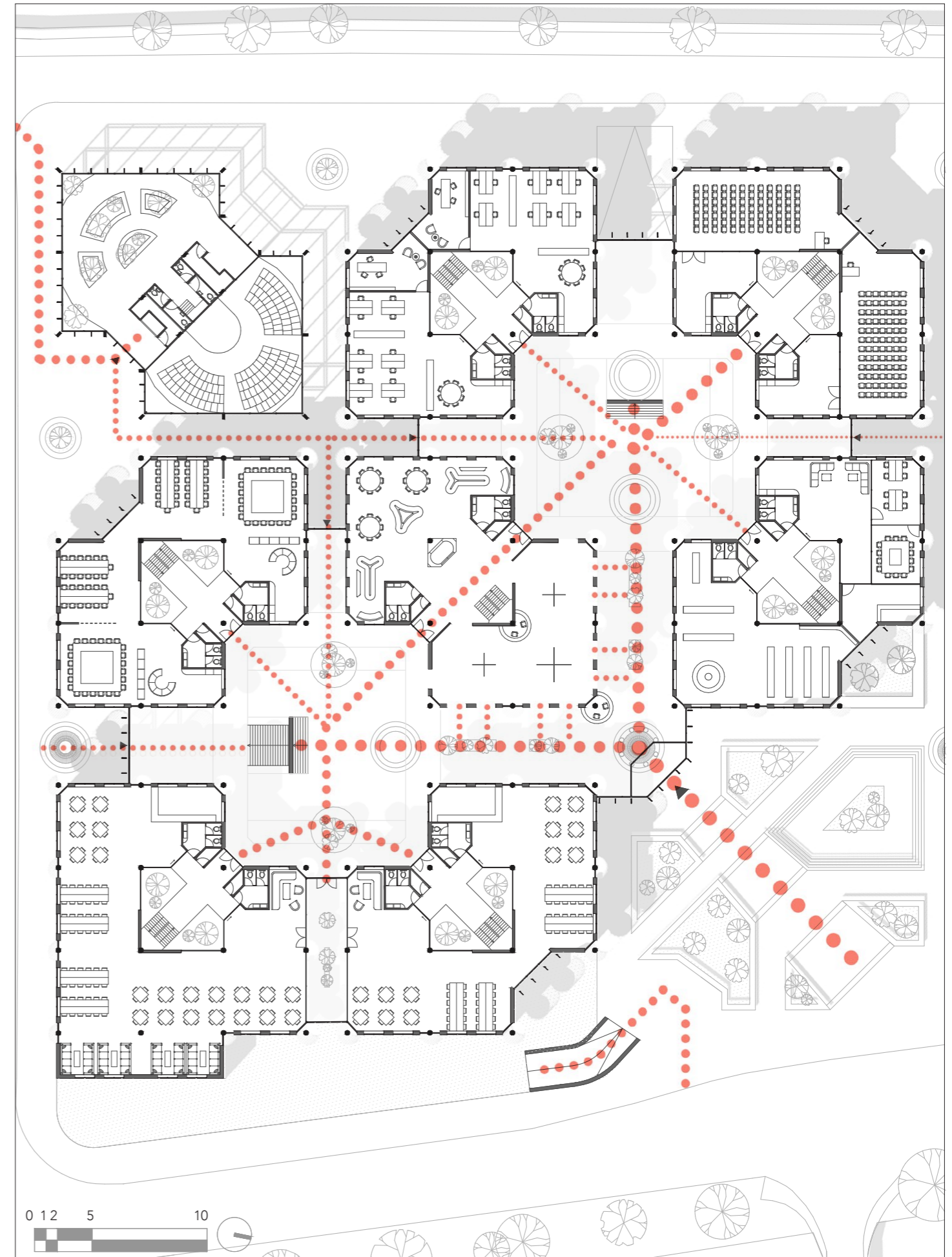
Ground Floor Plan - Analysis



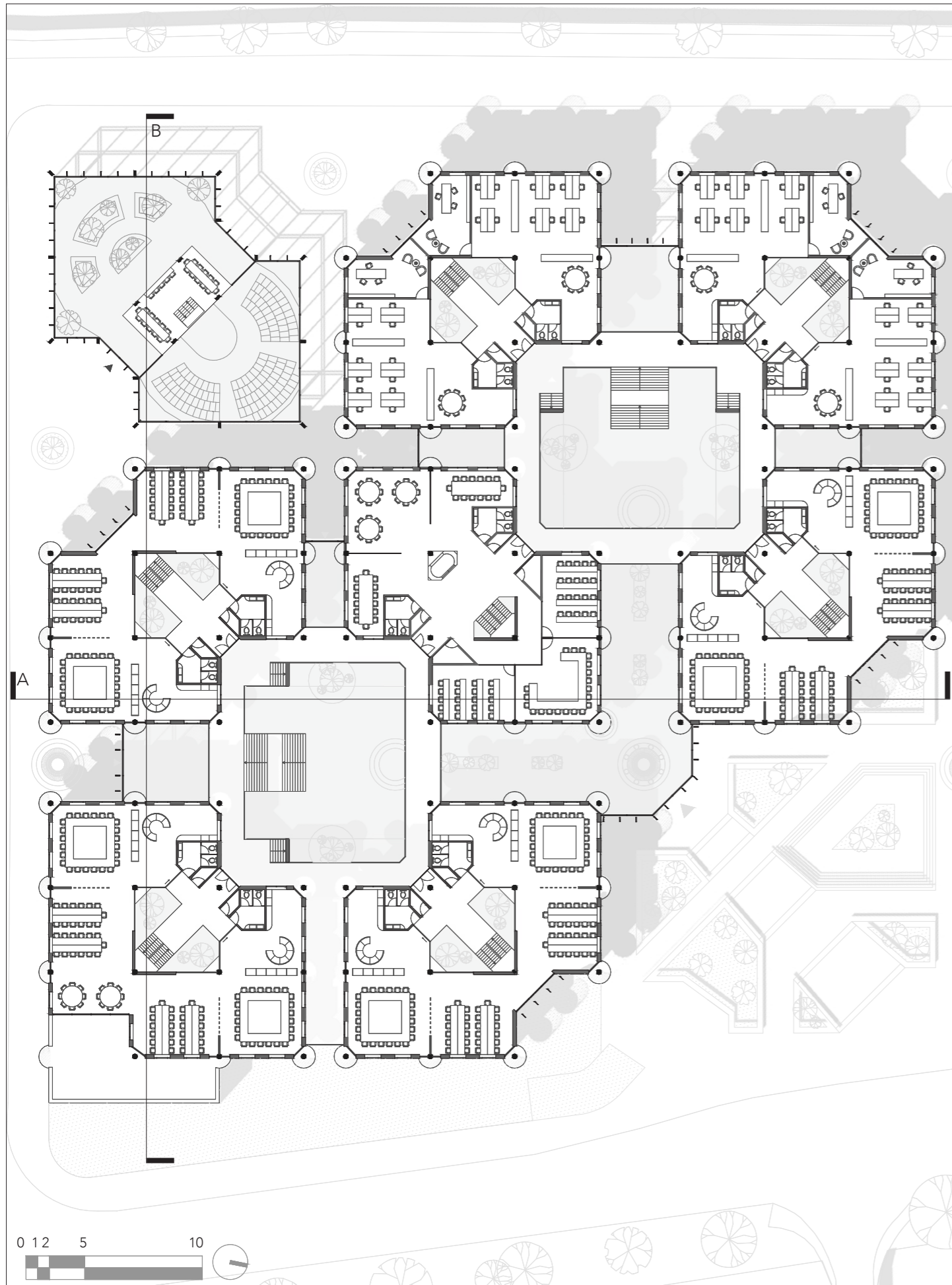
Ground Floor Plan - Zoning



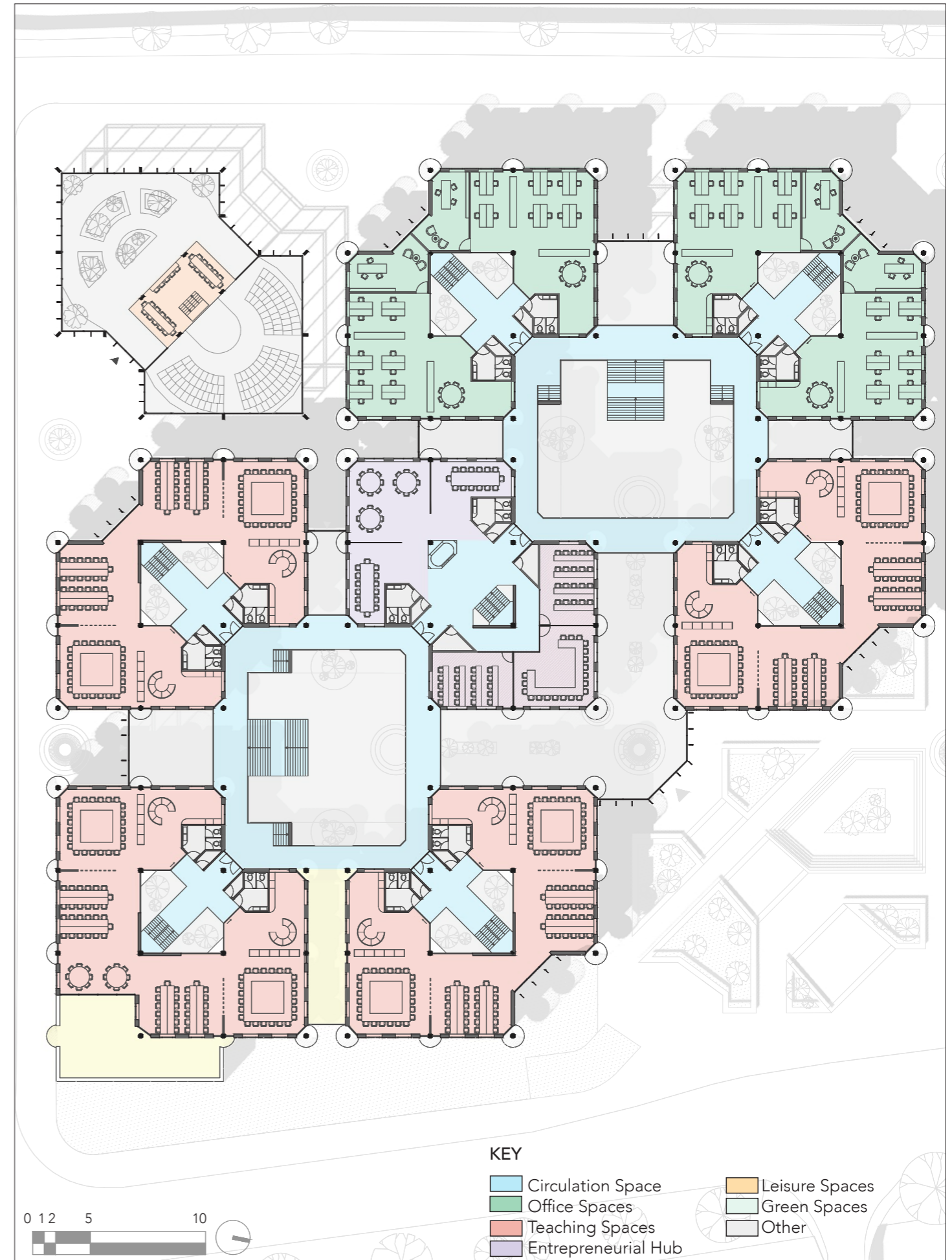
Ground Floor Plan - Circulation Diagram



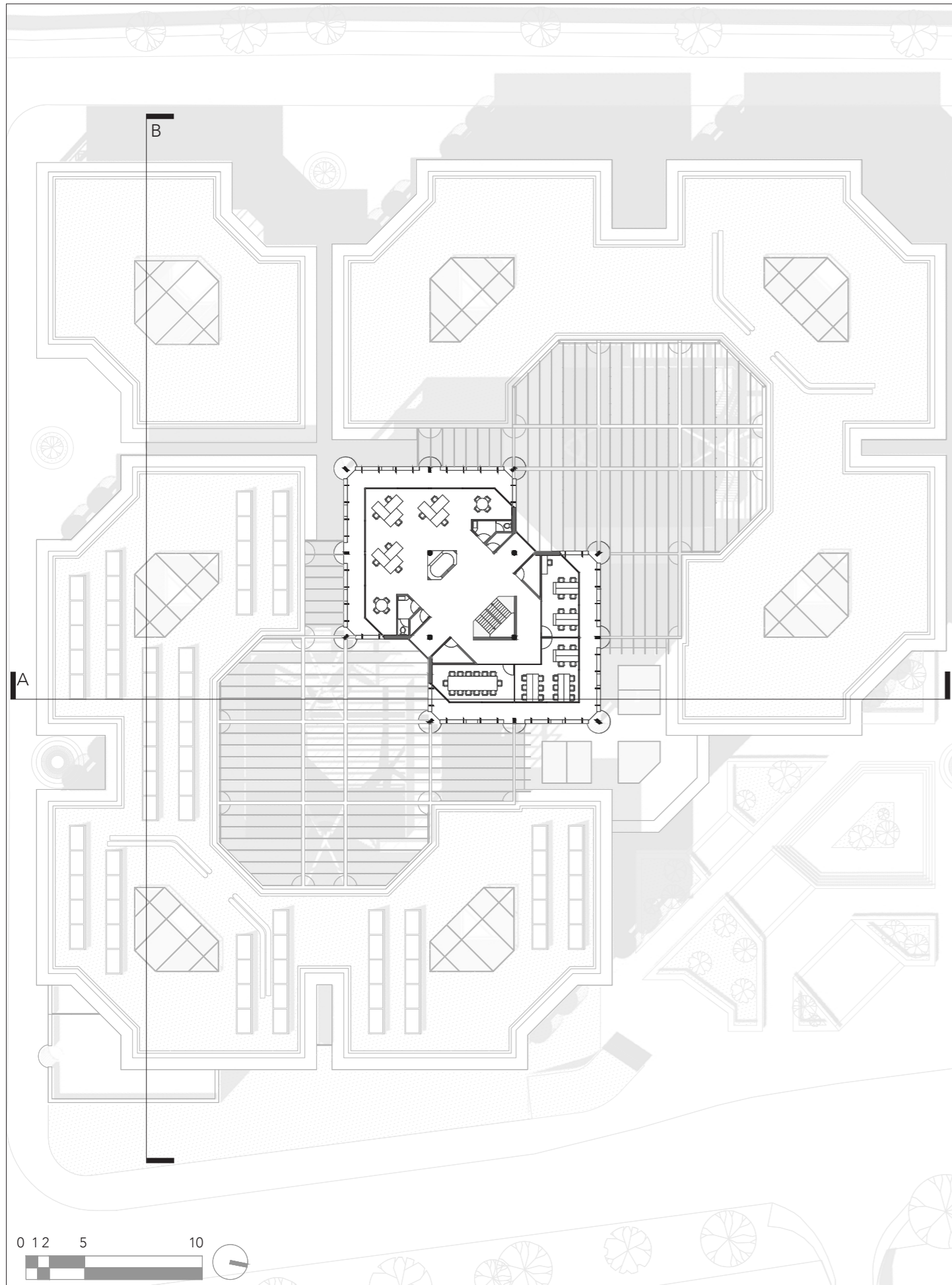
First Floor Plan



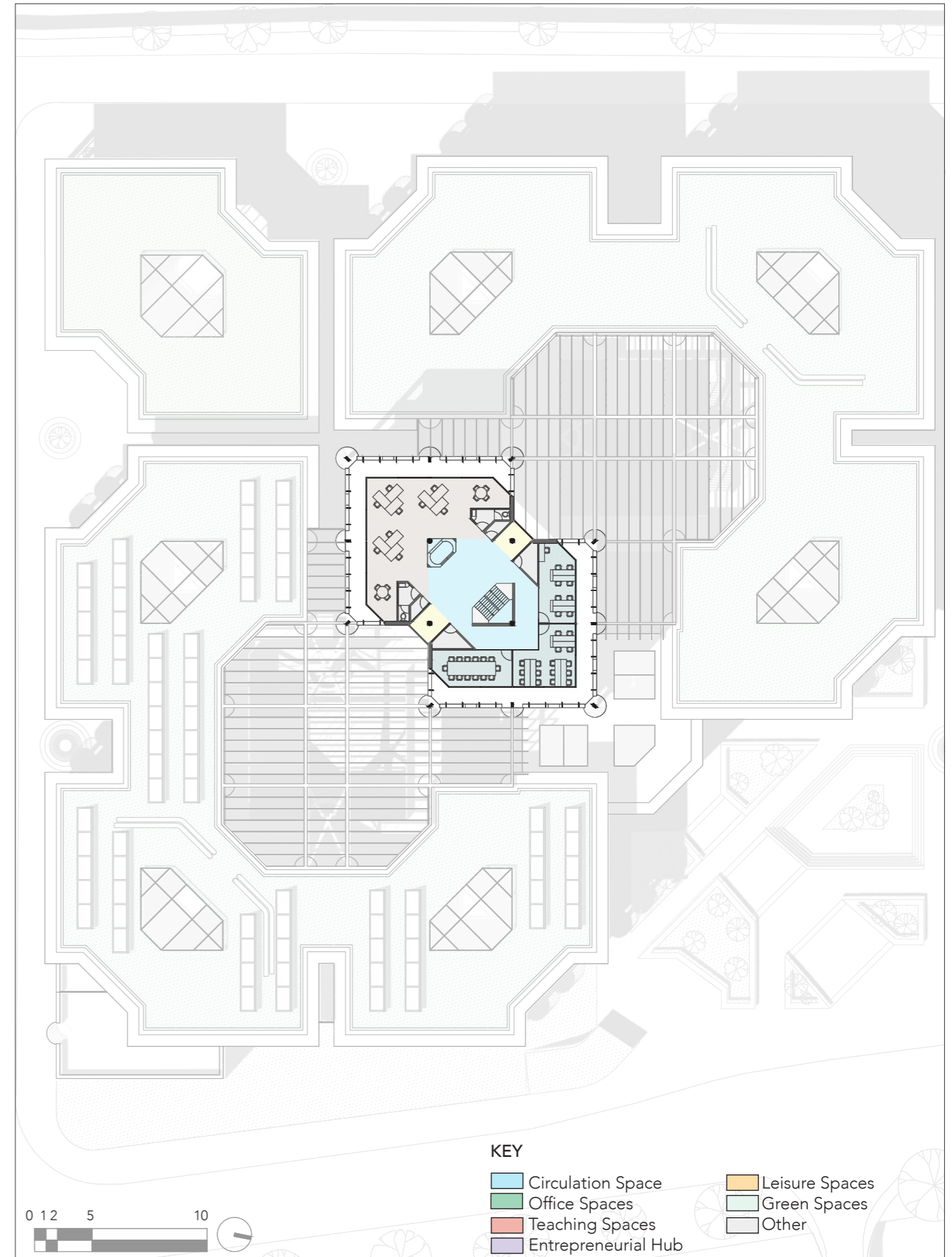
First Floor Plan - Analysis



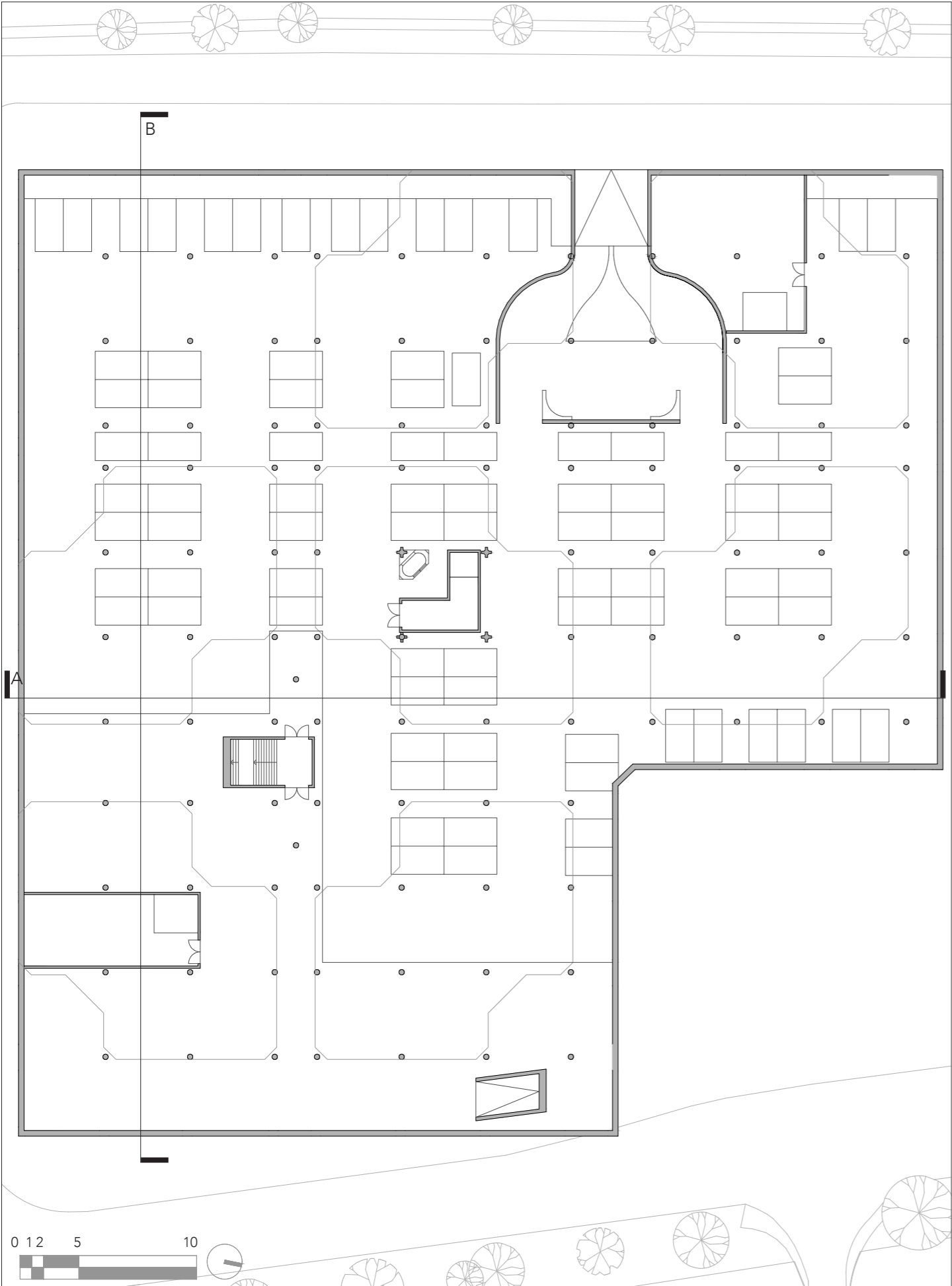
Fourth Floor Plan



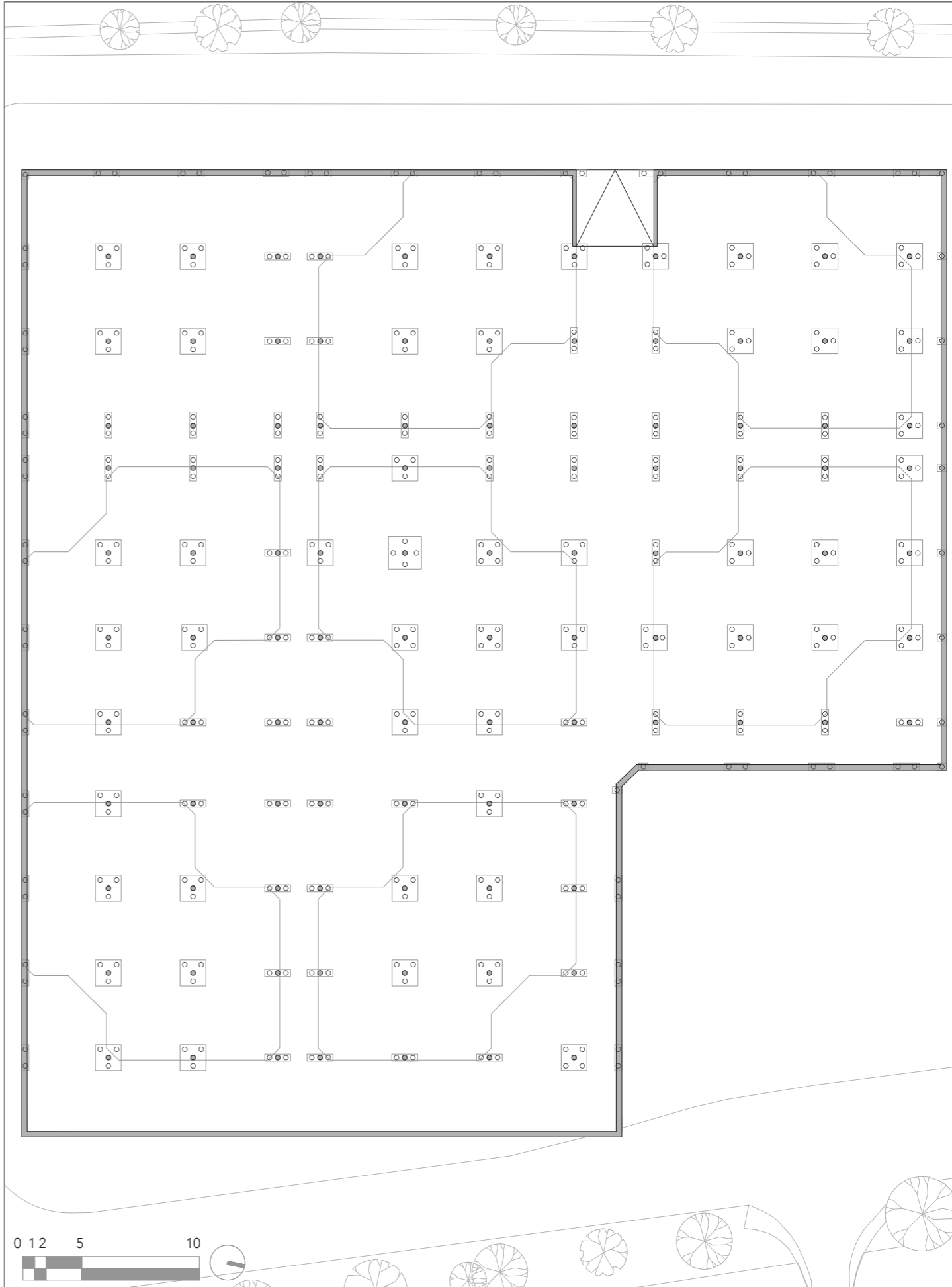
Fourth Floor Plan - Analysis



Basement Plan



Foundation Plan



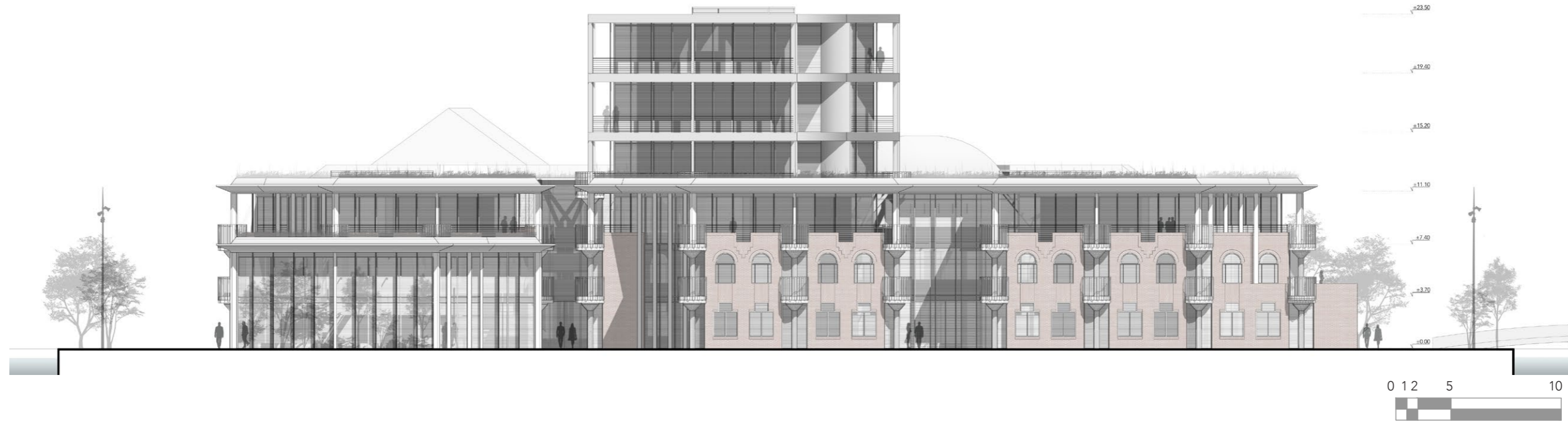
East Elevation



Section A



South Elevation



Section B



Sectional Perspective



Exterior Perspective



Exterior Perspective



Exterior Perspective



Exterior Perspective



Exterior Perspective



Exterior Perspective



Perspective View



Perspective View



Perspective View

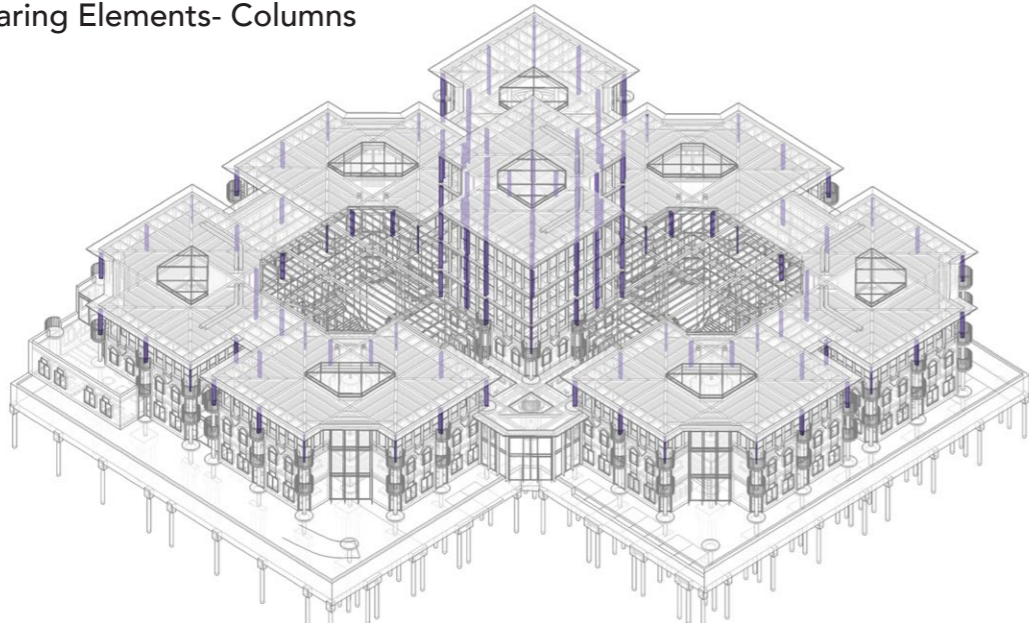


Perspective View

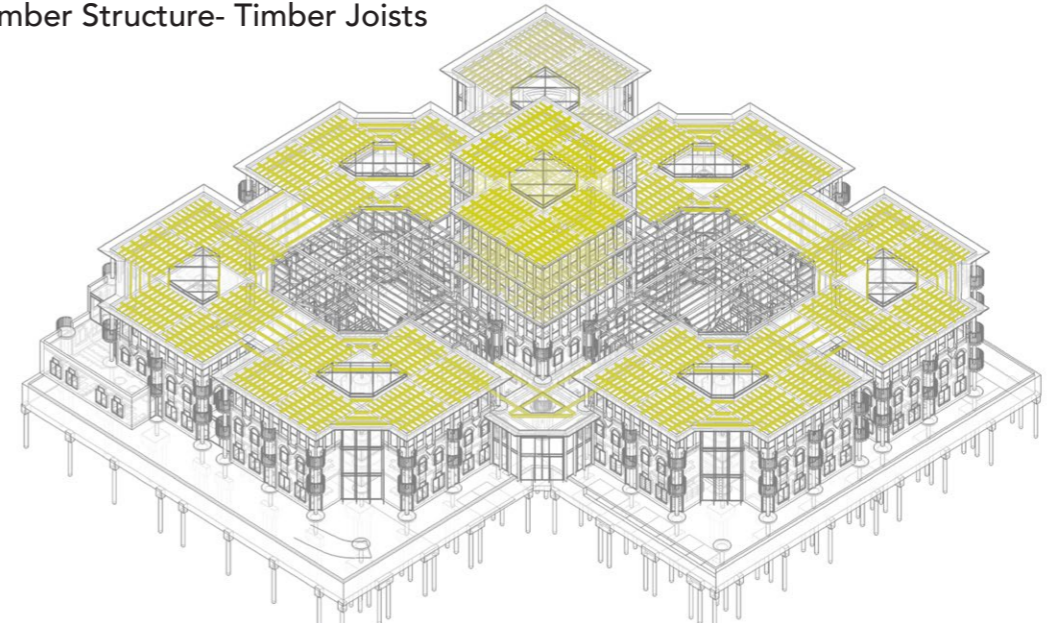


Structural Axonometric

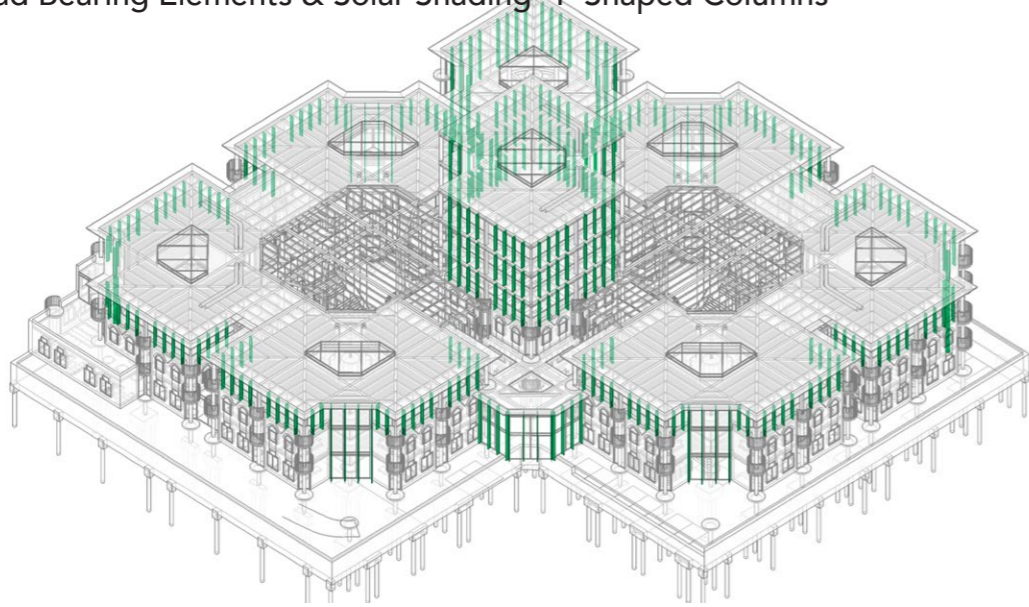
Main Load Bearing Elements- Columns



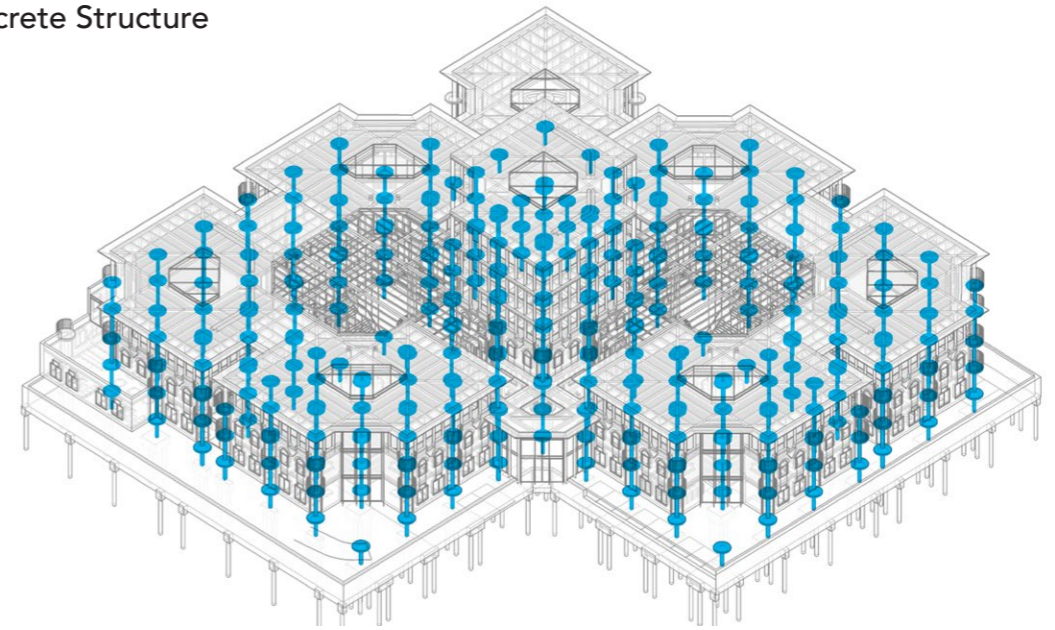
Secondary Timber Structure- Timber Joists



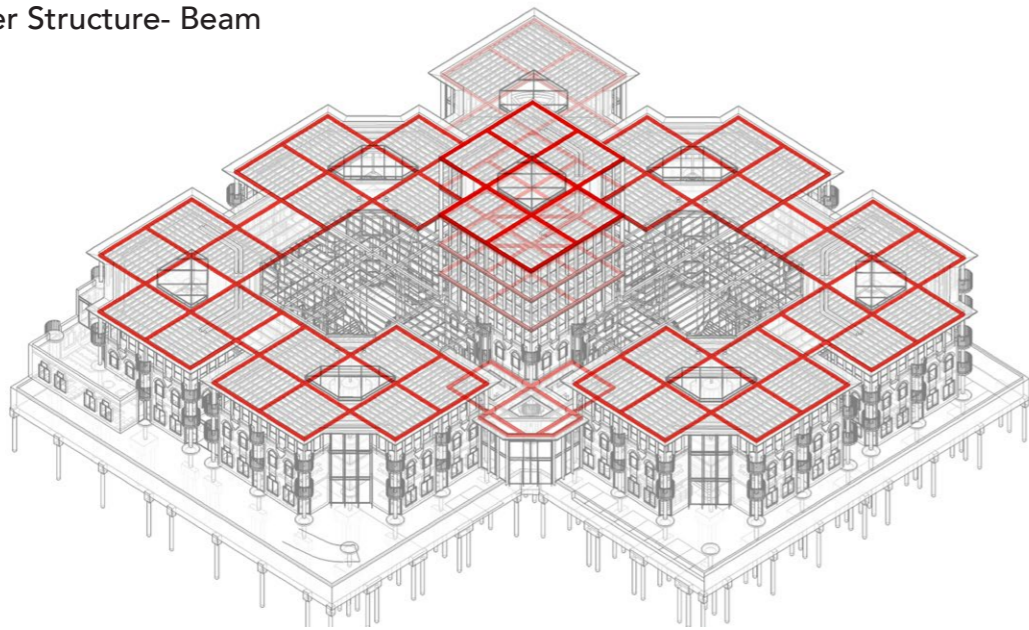
Secondary Load Bearing Elements & Solar Shading- T-Shaped Columns



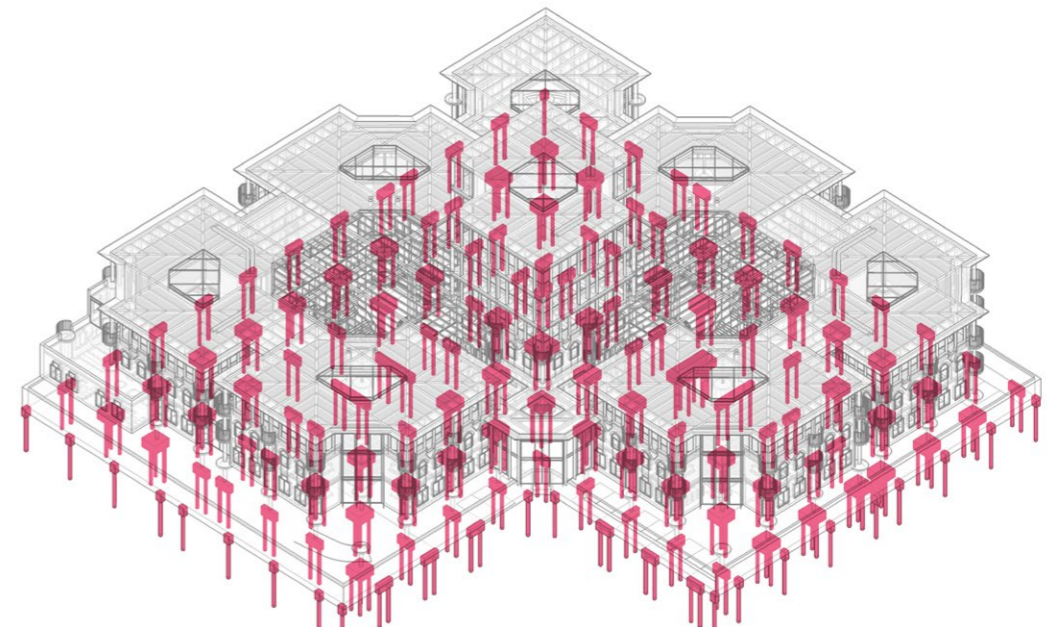
Existing Concrete Structure



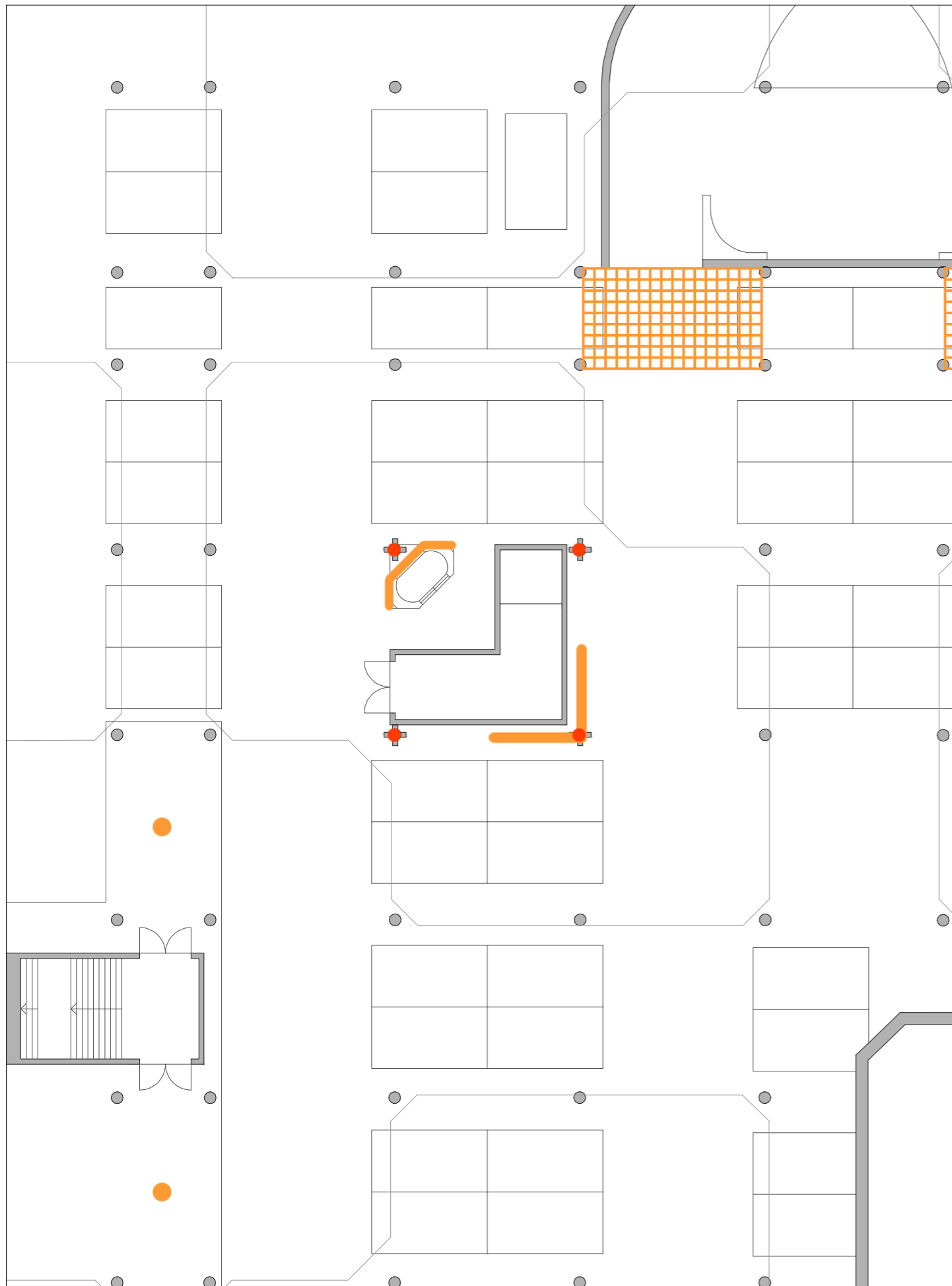
Primary Timber Structure- Beam



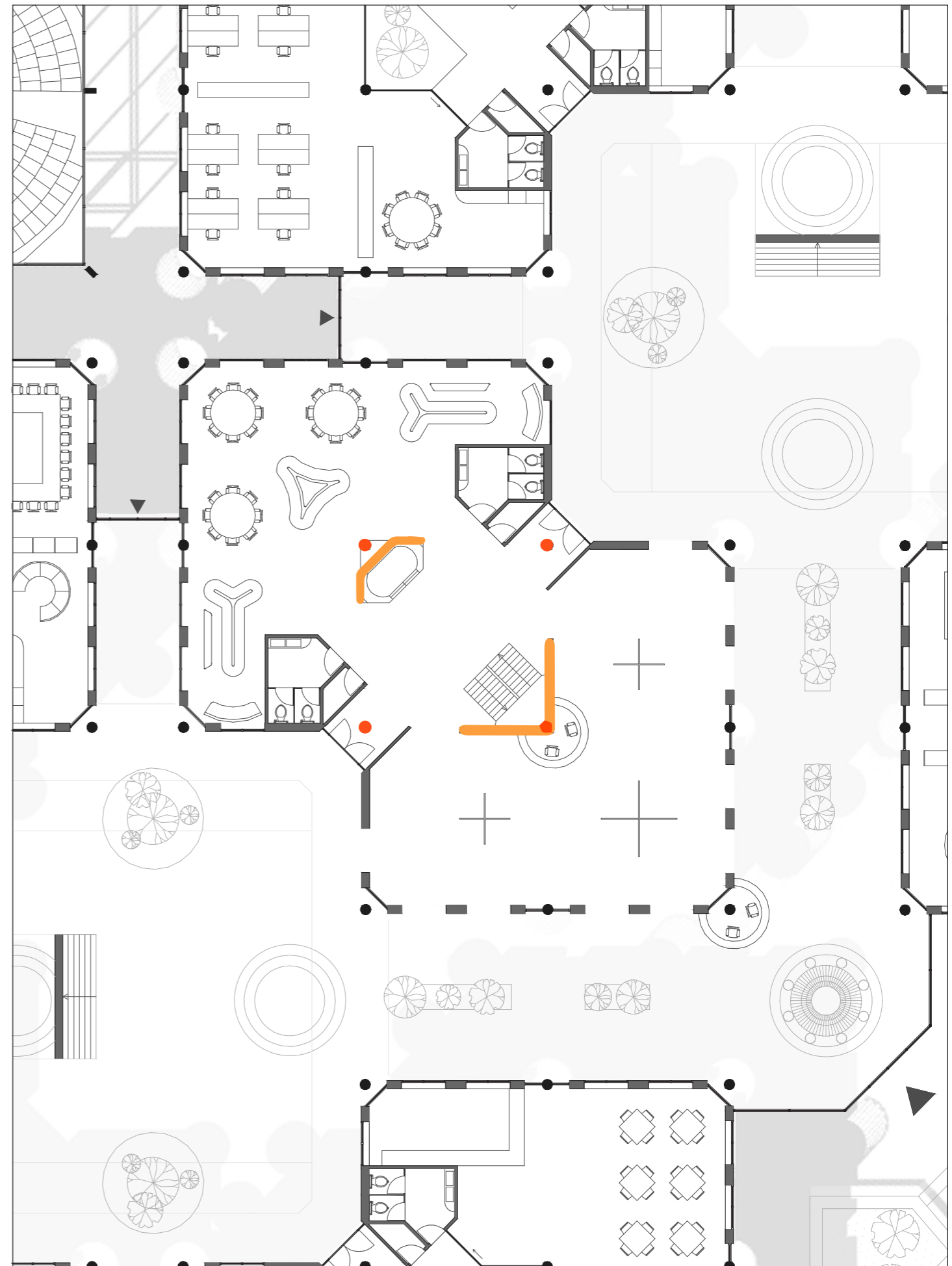
Foundations



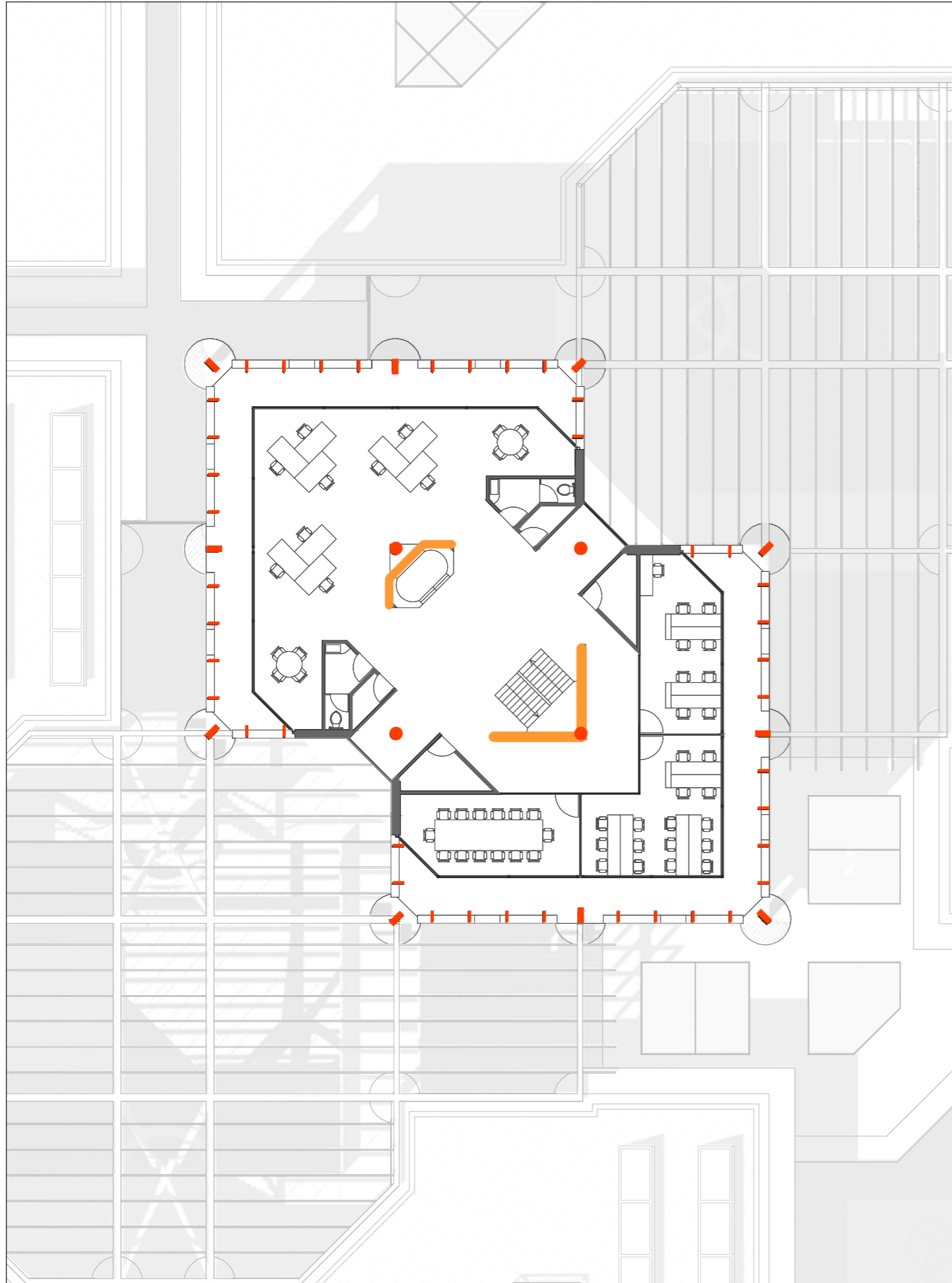
Existing Structure - Basement Reinforcement



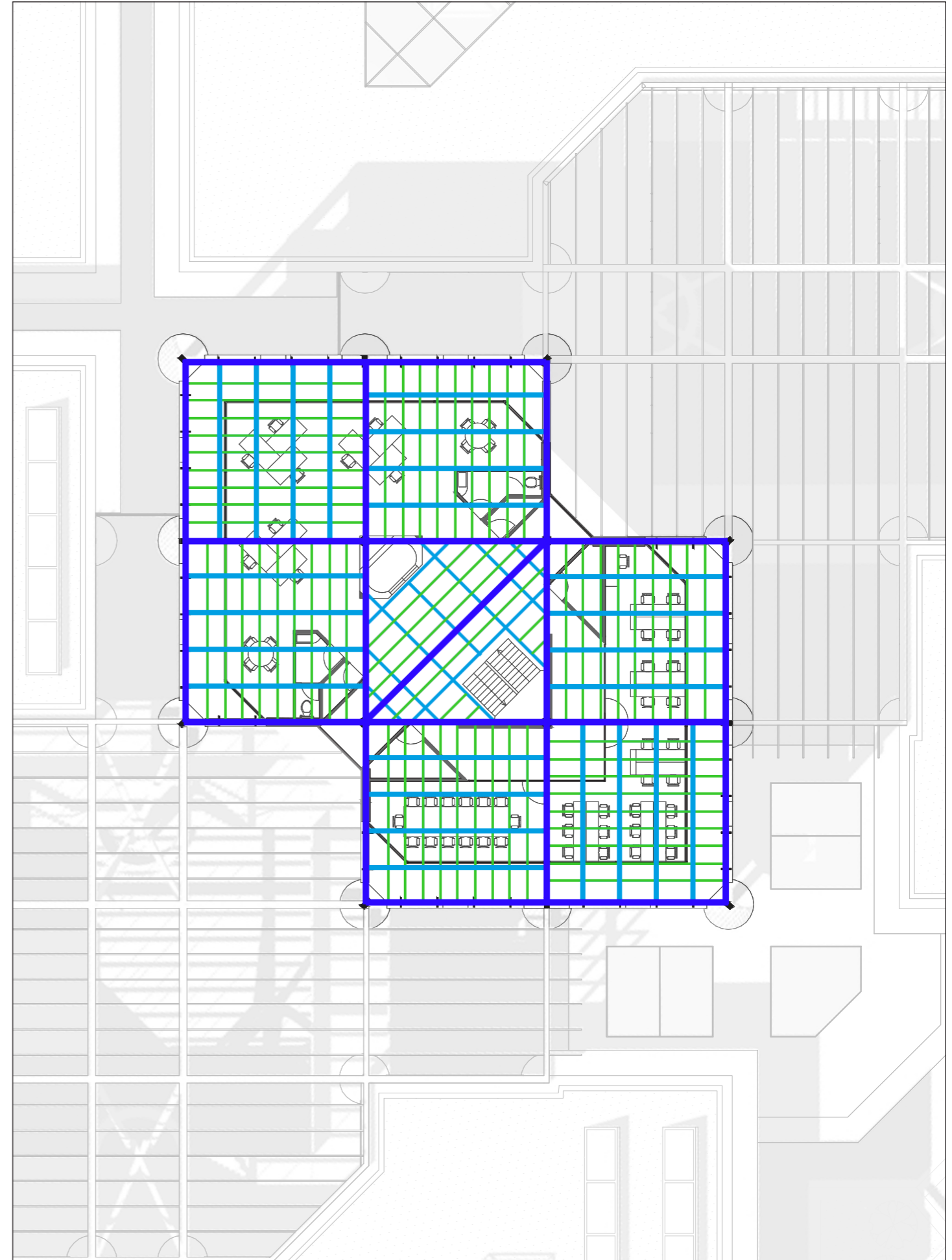
Existing Structure - Ground-floor Reinforcement



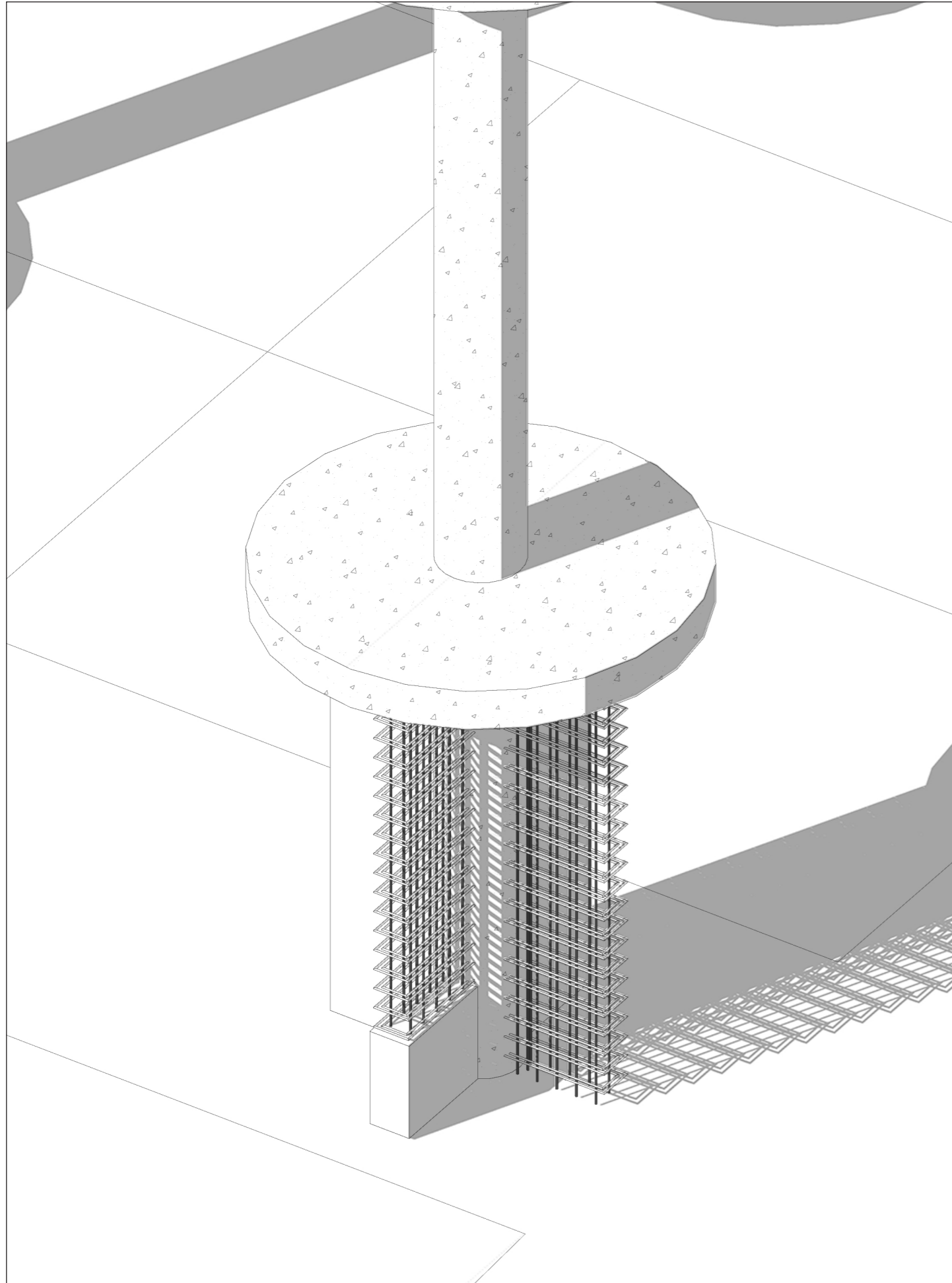
Proposal Structure - Columns



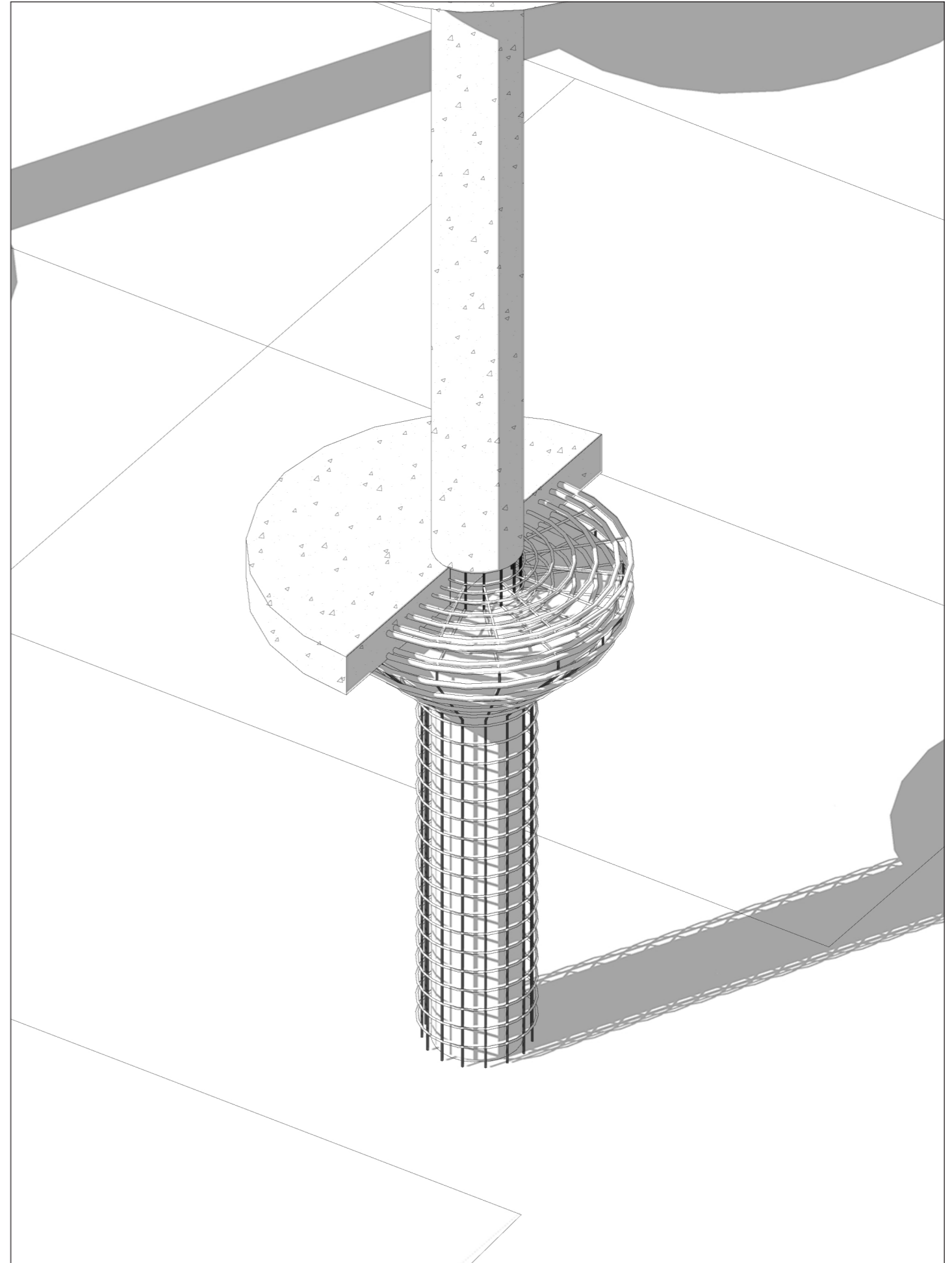
Proposal Structure - Beams



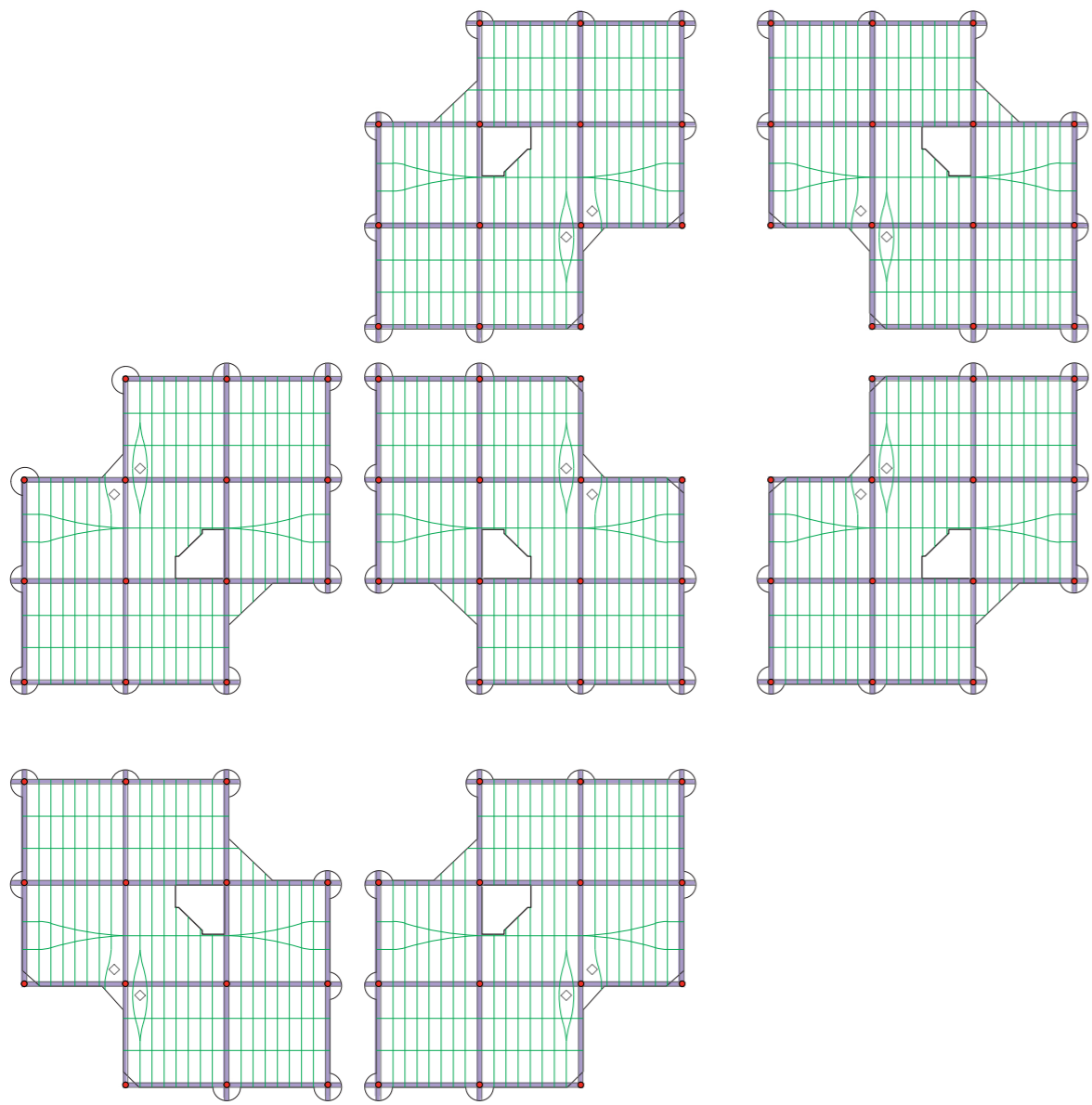
Column Reinforcement on Basement



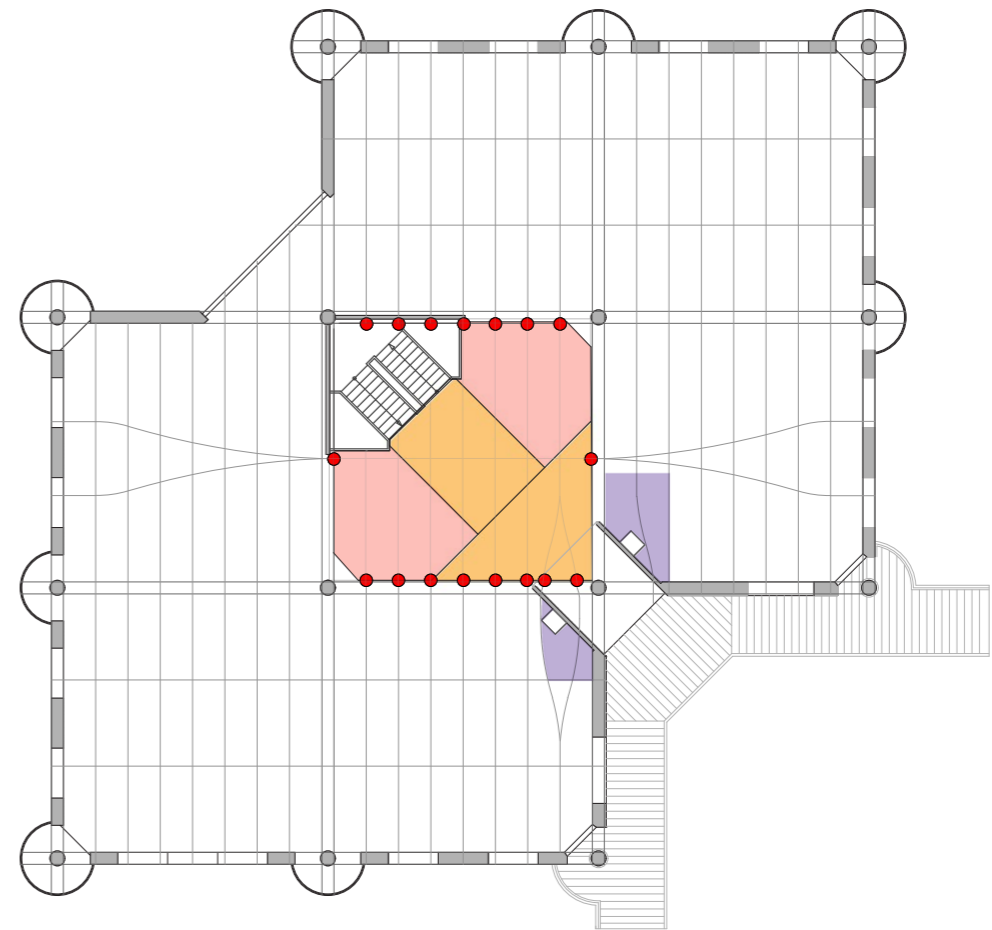
Column Reinforcement on Overground Levels



Void Study - Structural Analysis



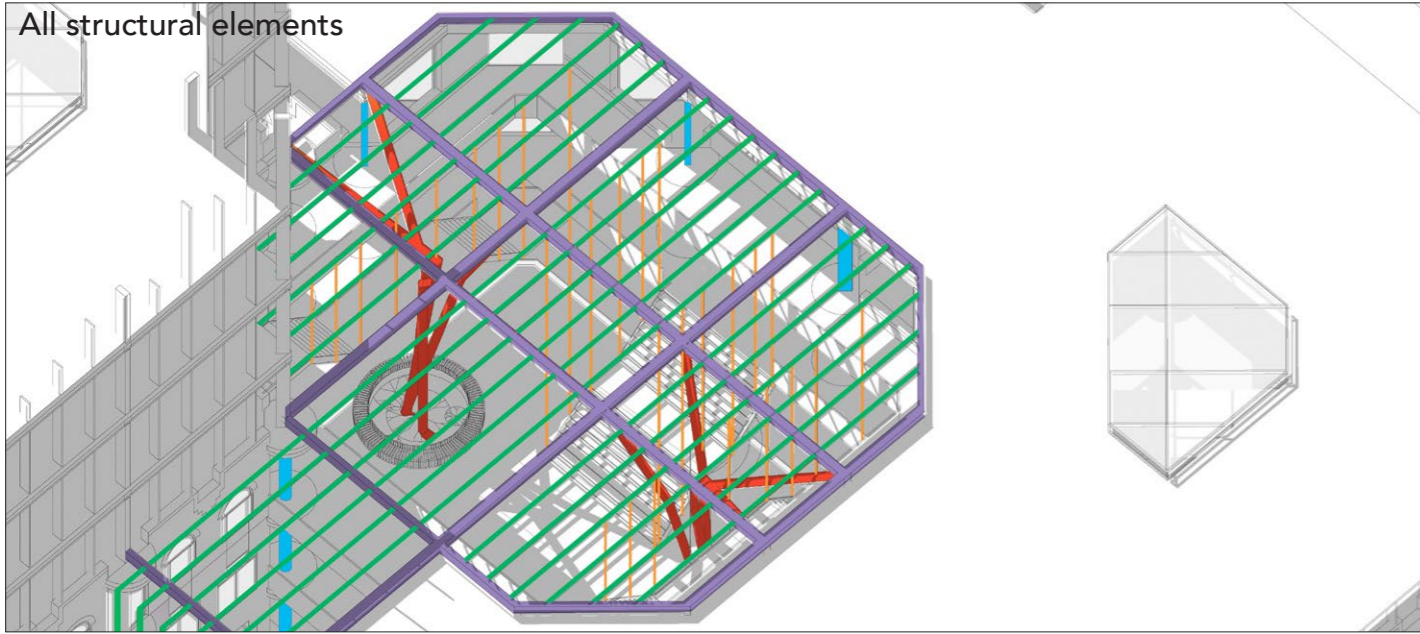
- KEY**
- Primary Structure- Columns
 - Primary Structure- Steel reinforcement
 - Secondary Structure- Steel reinforcement



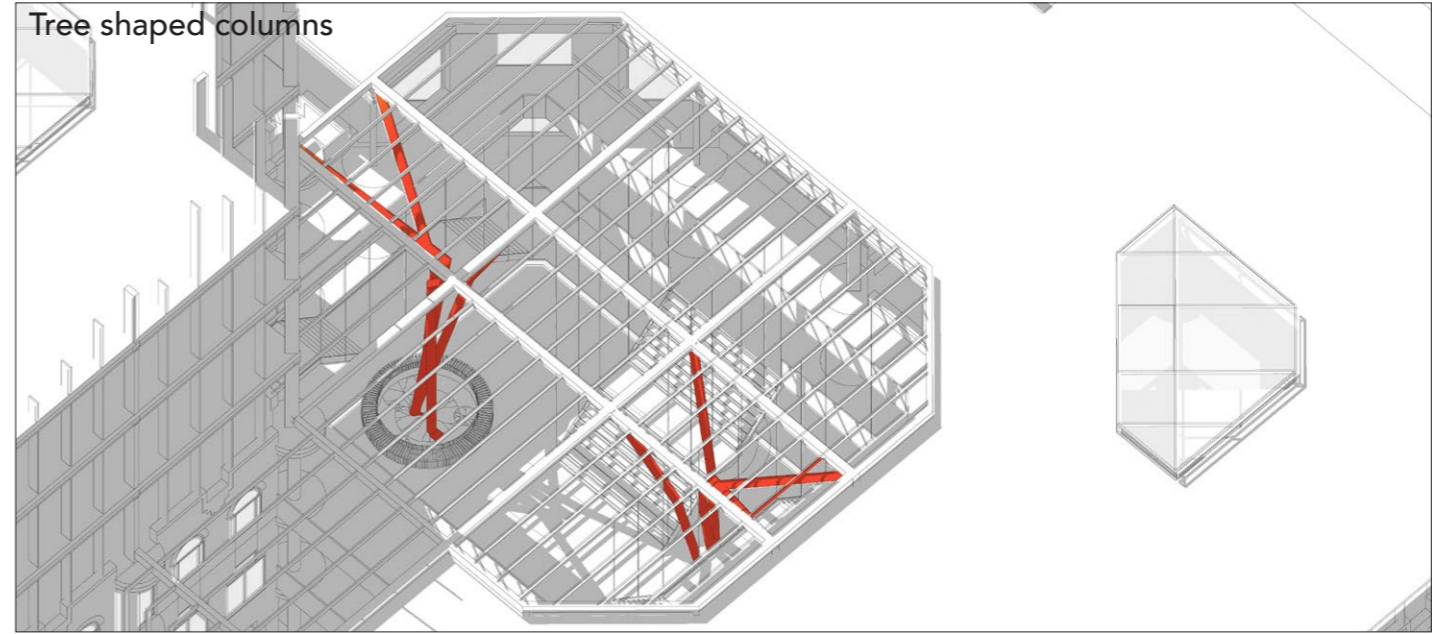
- KEY**
- Fix in place the pre-stressed cables
 - Remove floor slab
 - Replace floor
 - Possible positions for new services voids. (Steel cables should remain intact)

Structural Axonometric- Courtyard

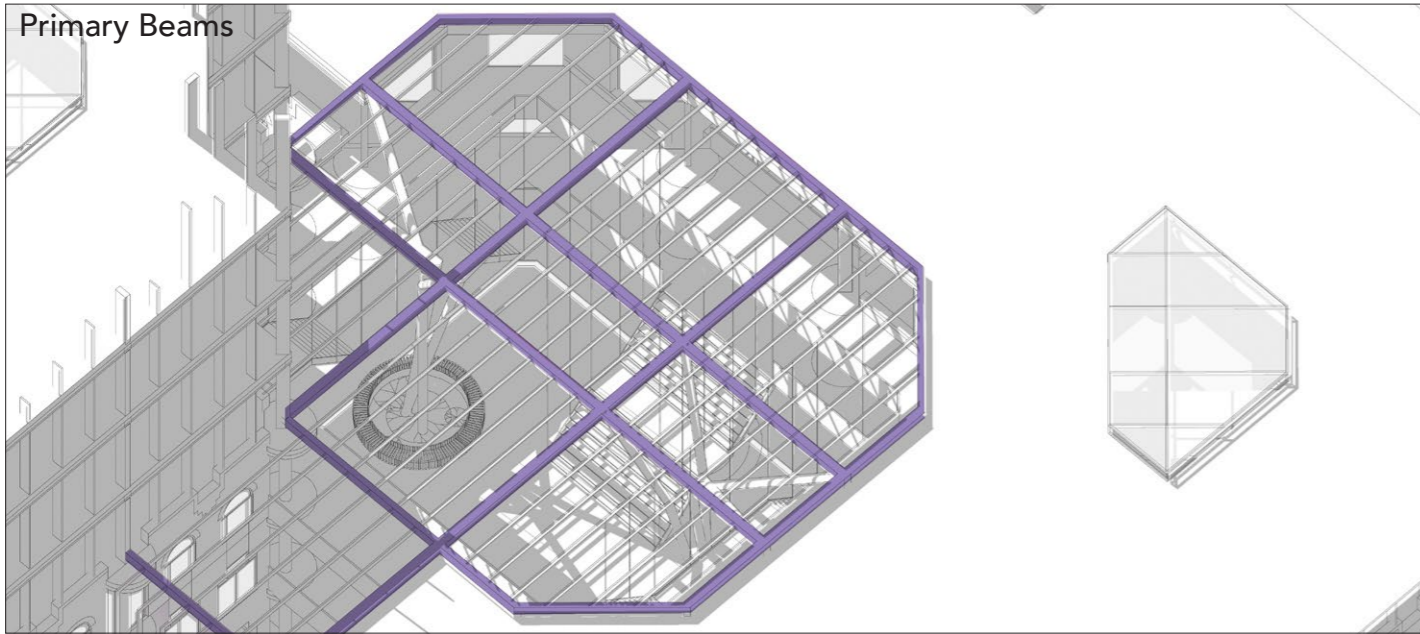
All structural elements



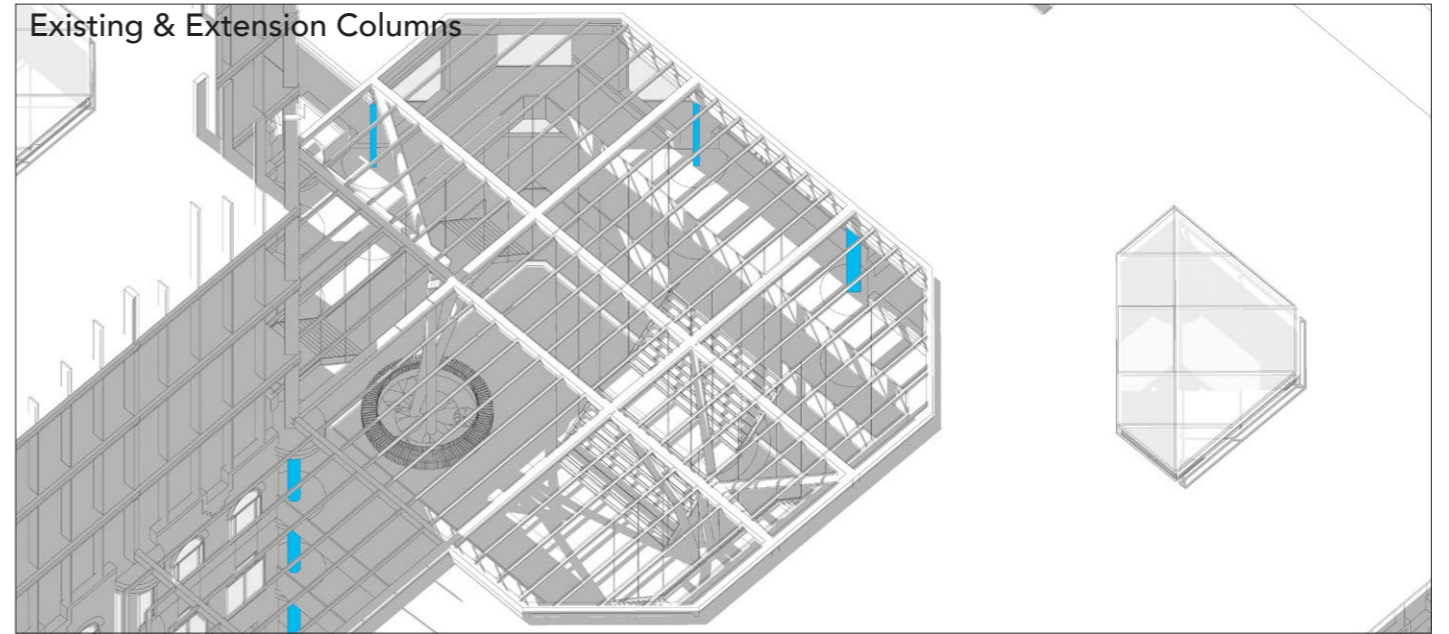
Tree shaped columns



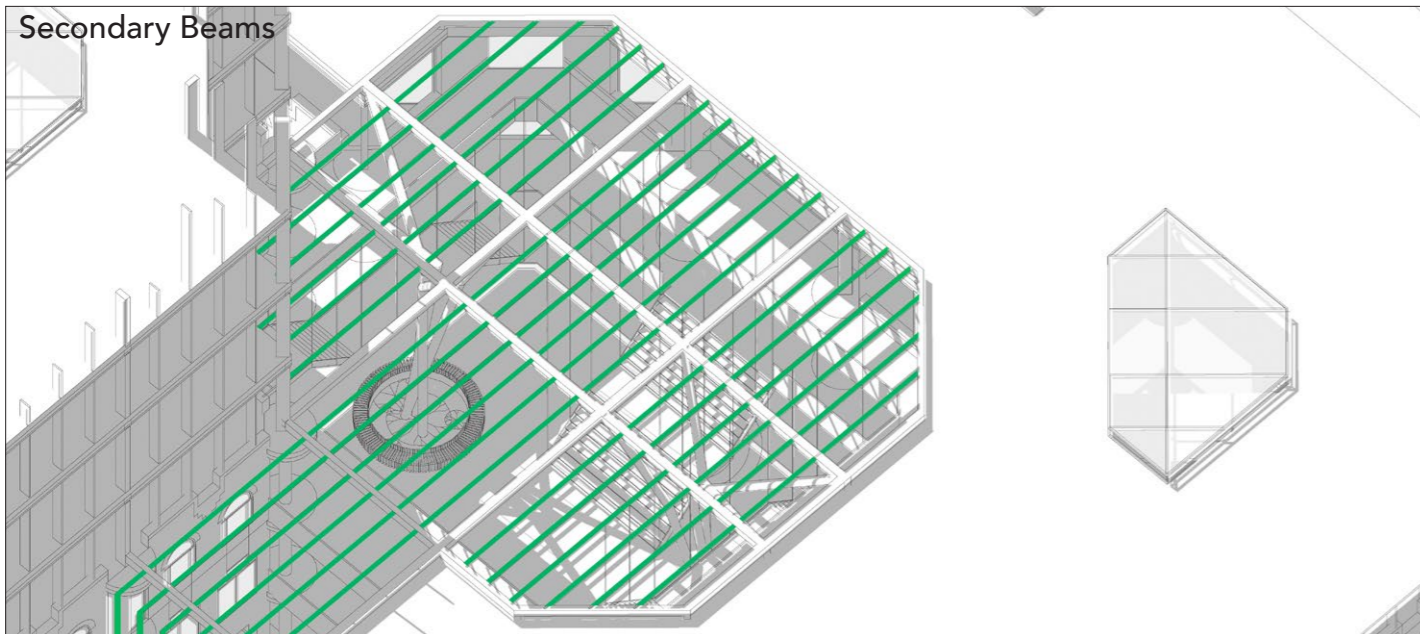
Primary Beams



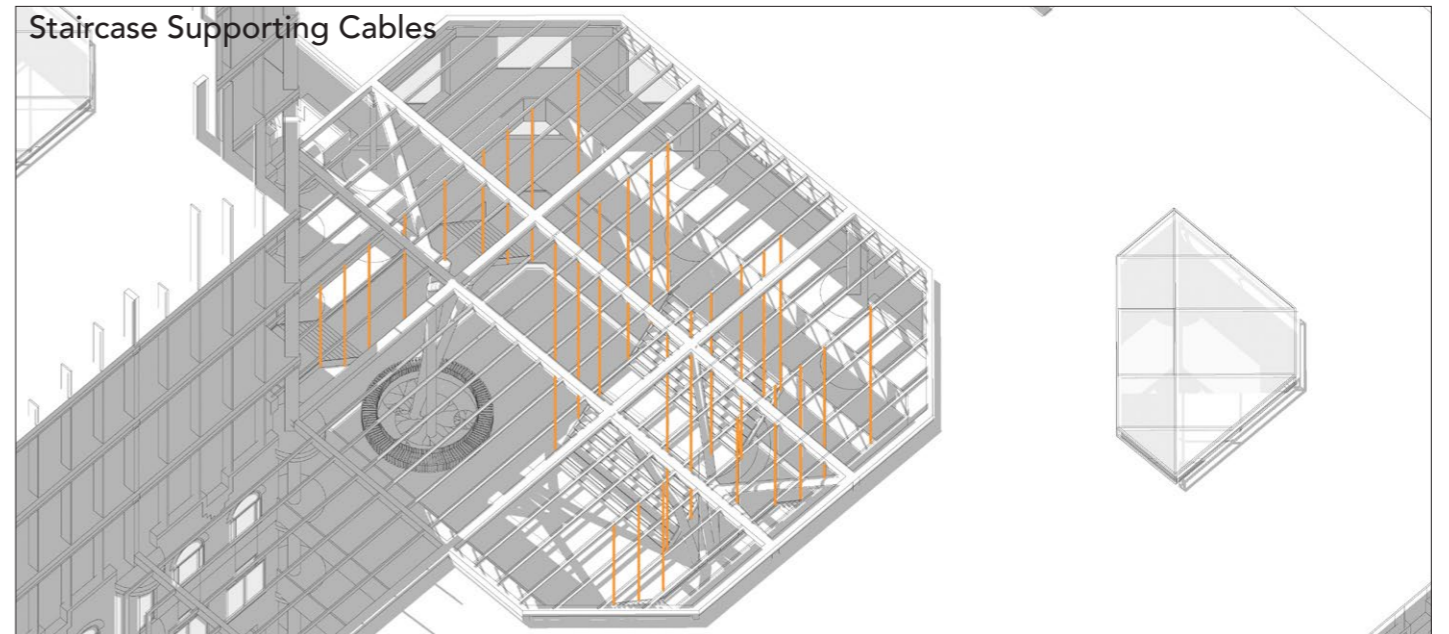
Existing & Extension Columns



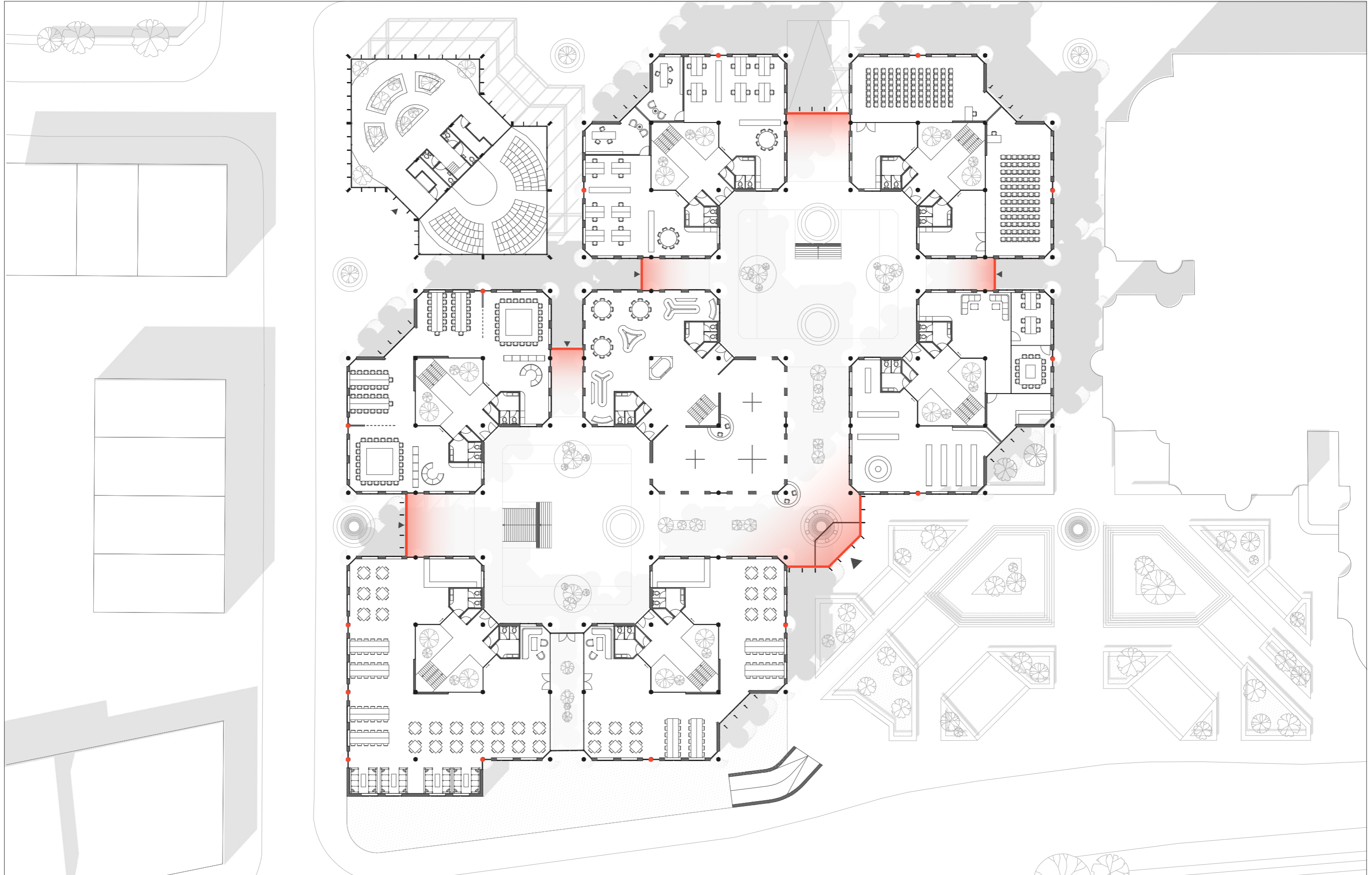
Secondary Beams



Staircase Supporting Cables

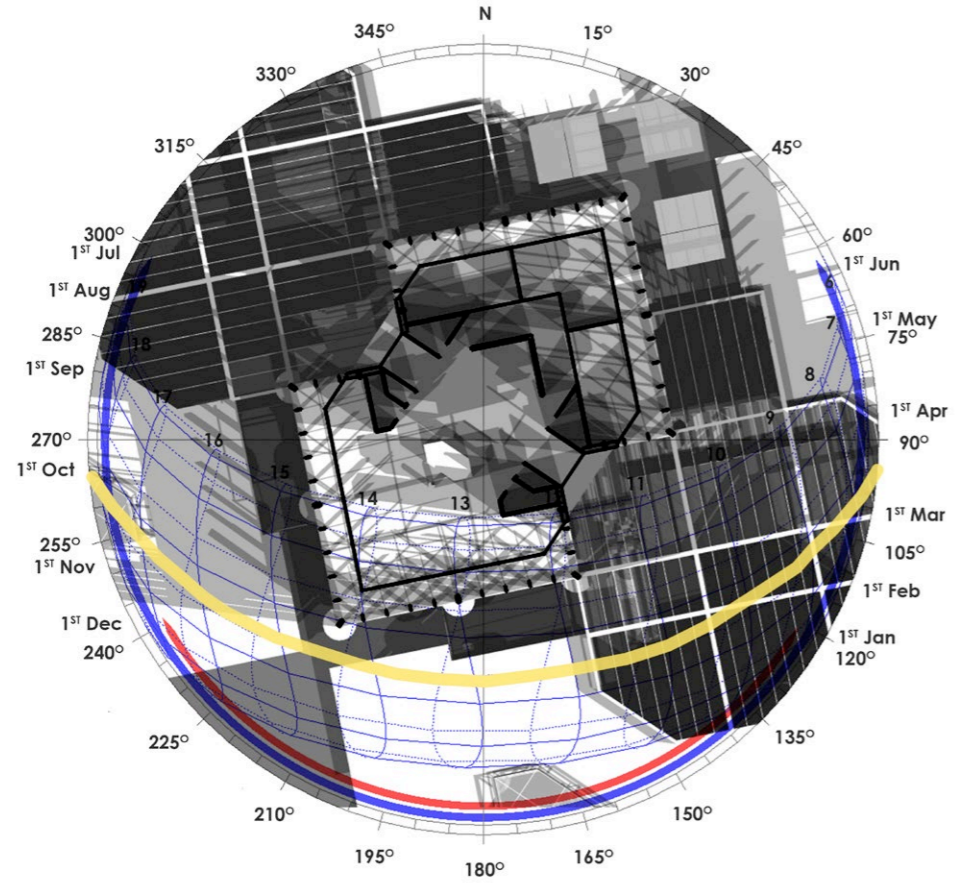


Thermal Bridge - Plan

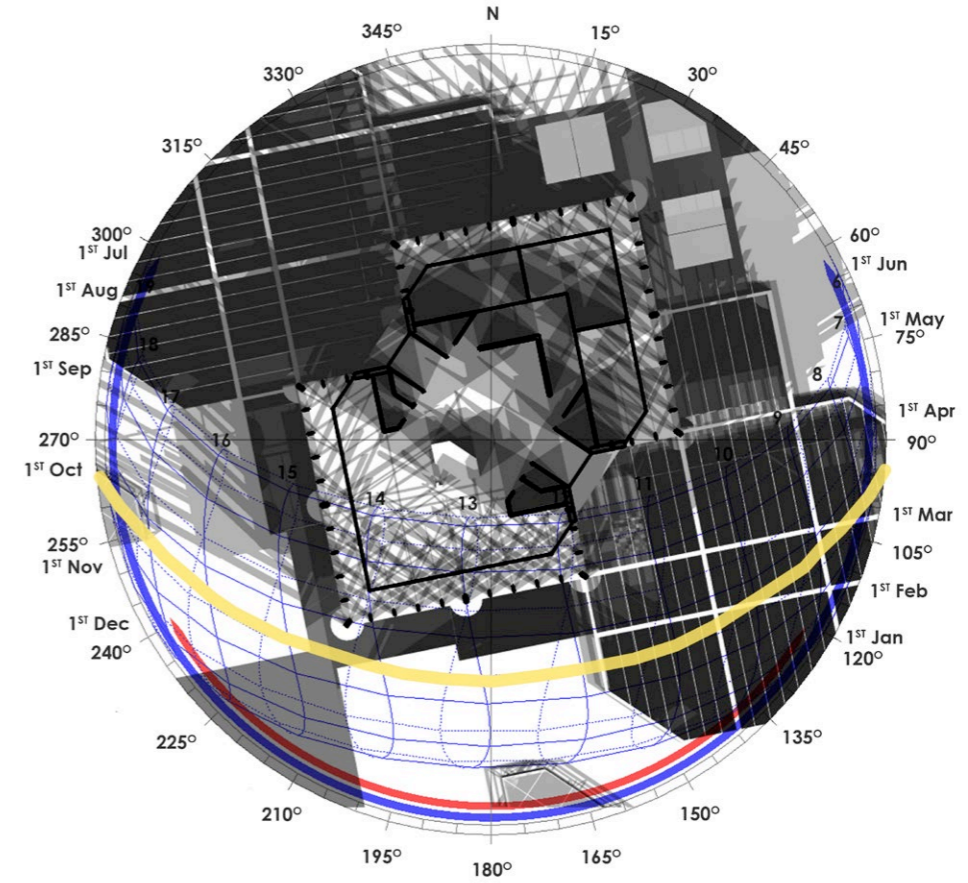


Shadow Study & Solar Analysis

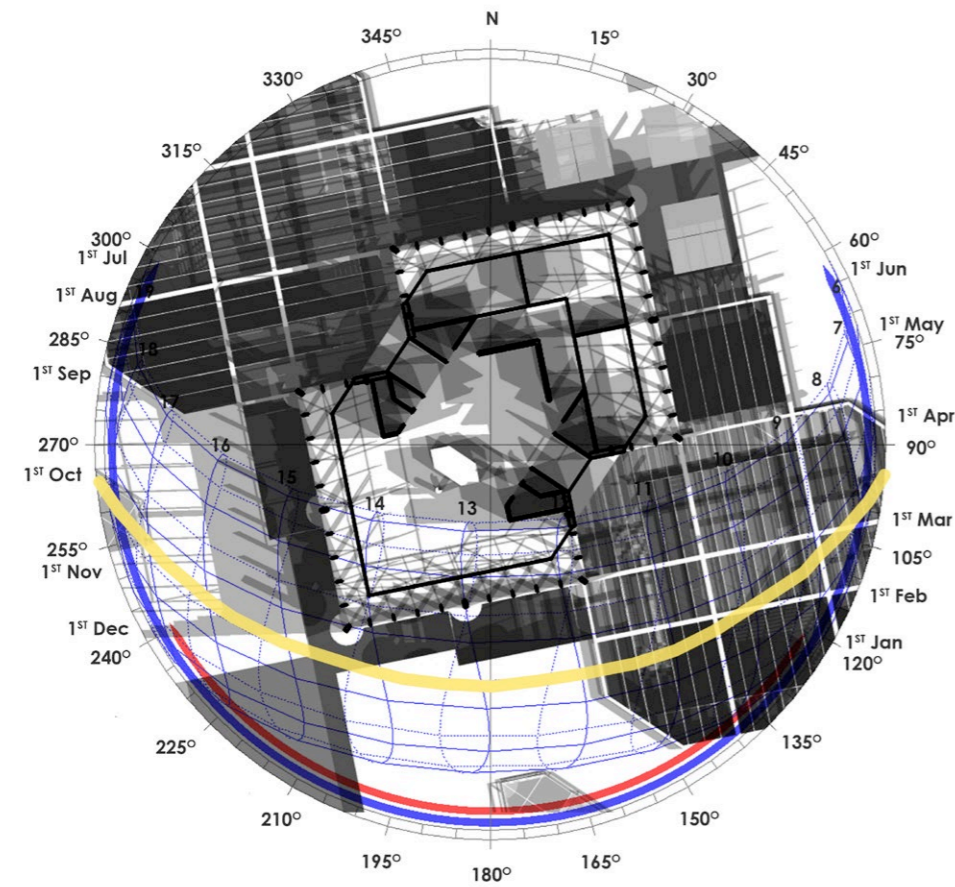
21 March



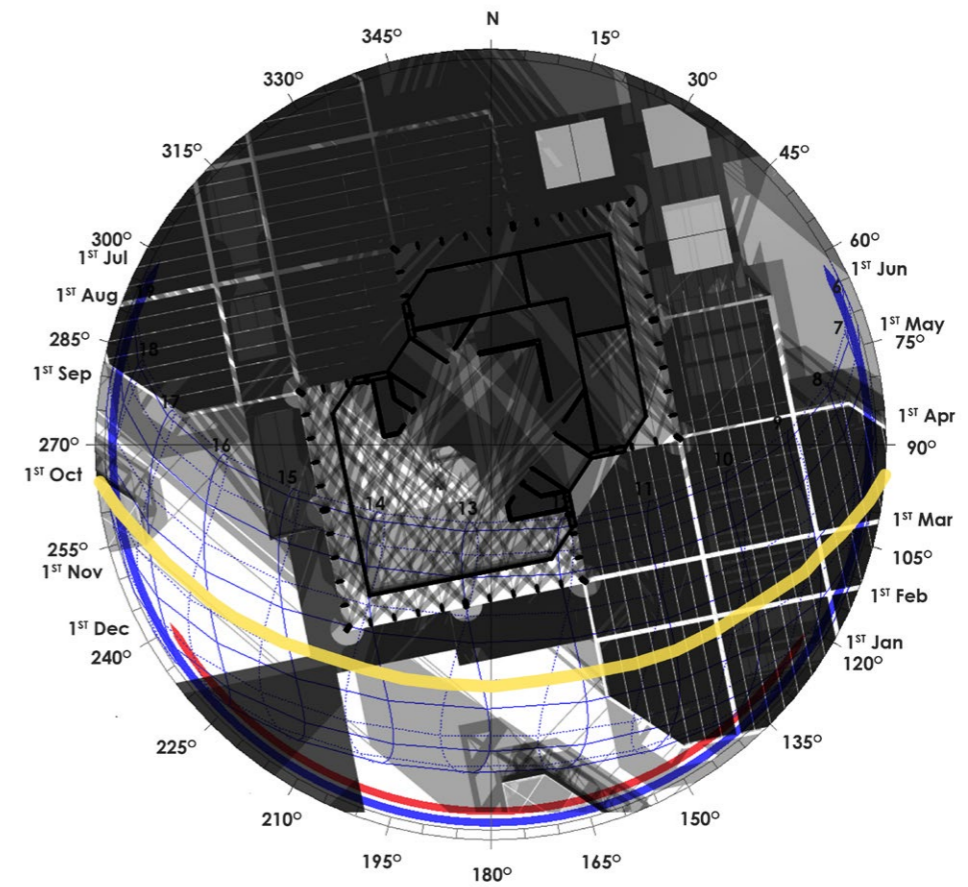
21 September



21 June



21 December

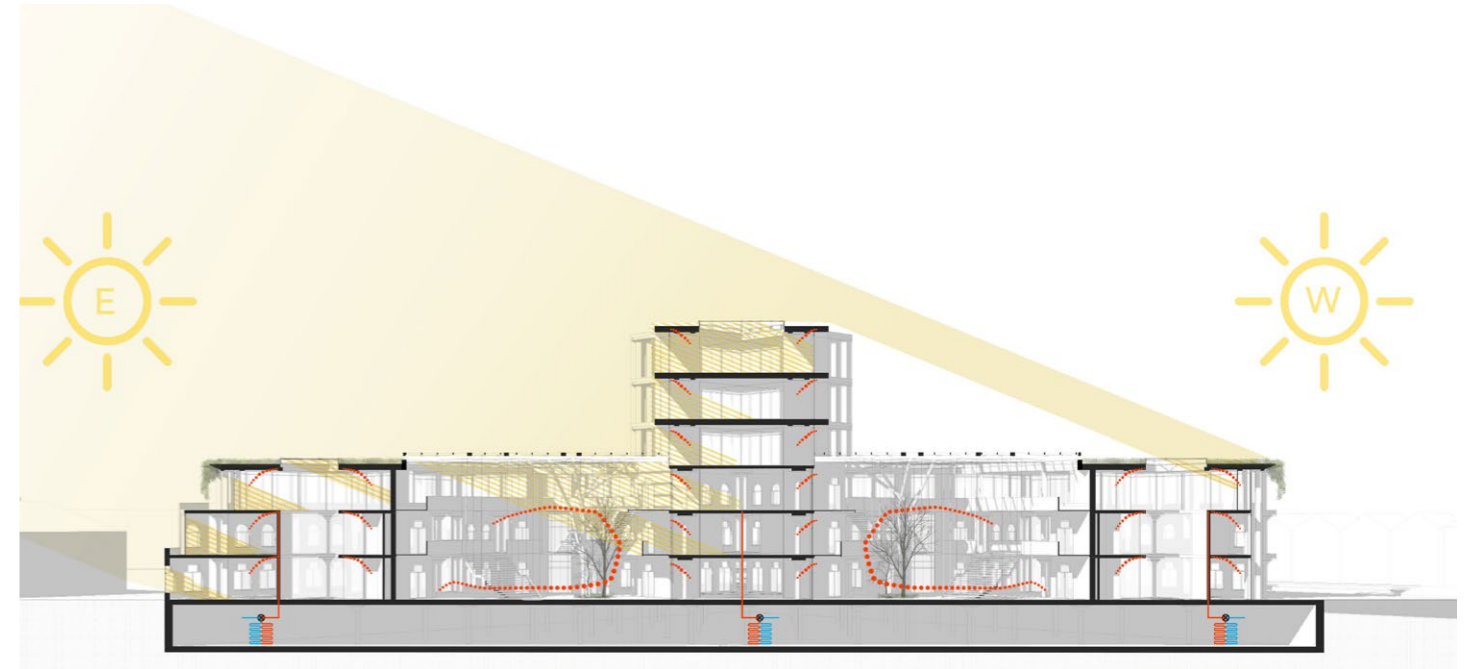


Environmental Strategies Diagram

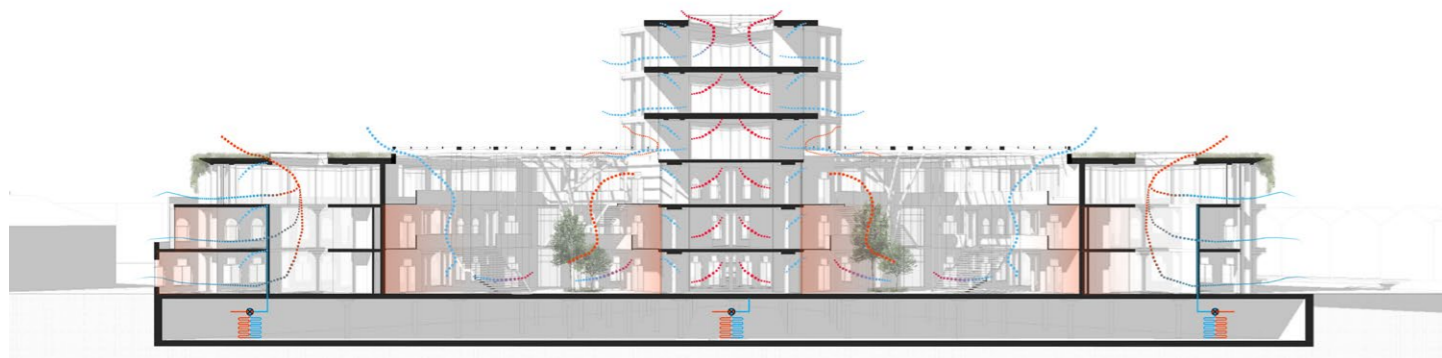
Summer Day



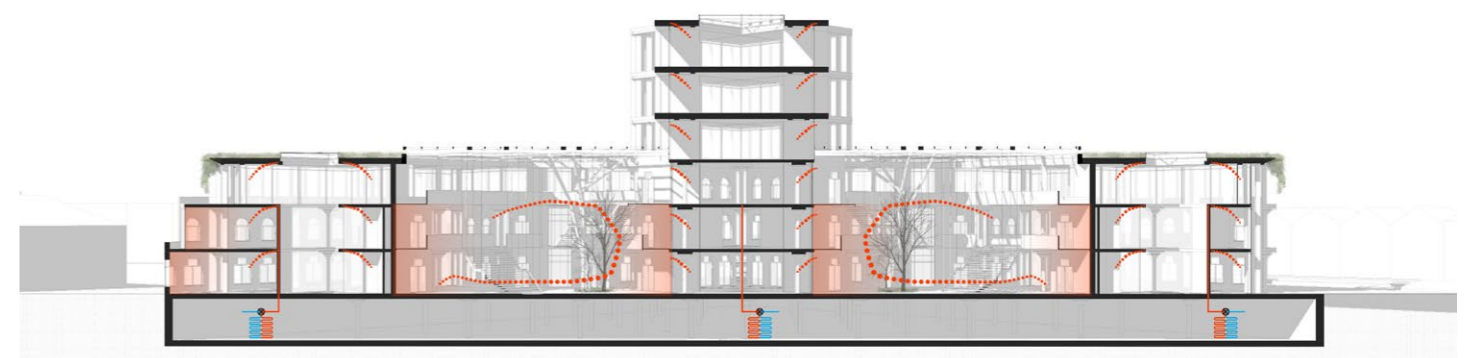
Winter Day



Summer Night

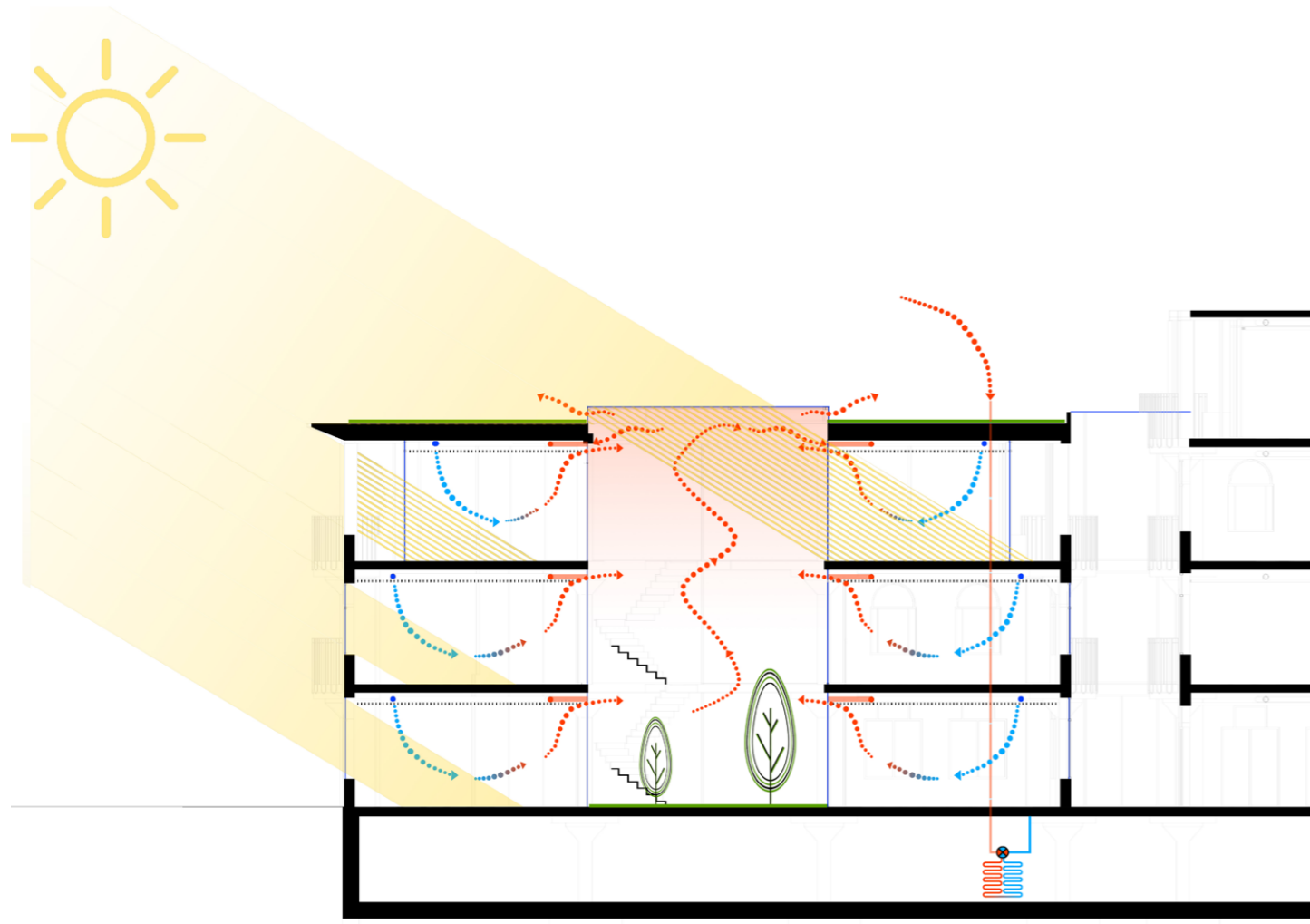


Winter Night

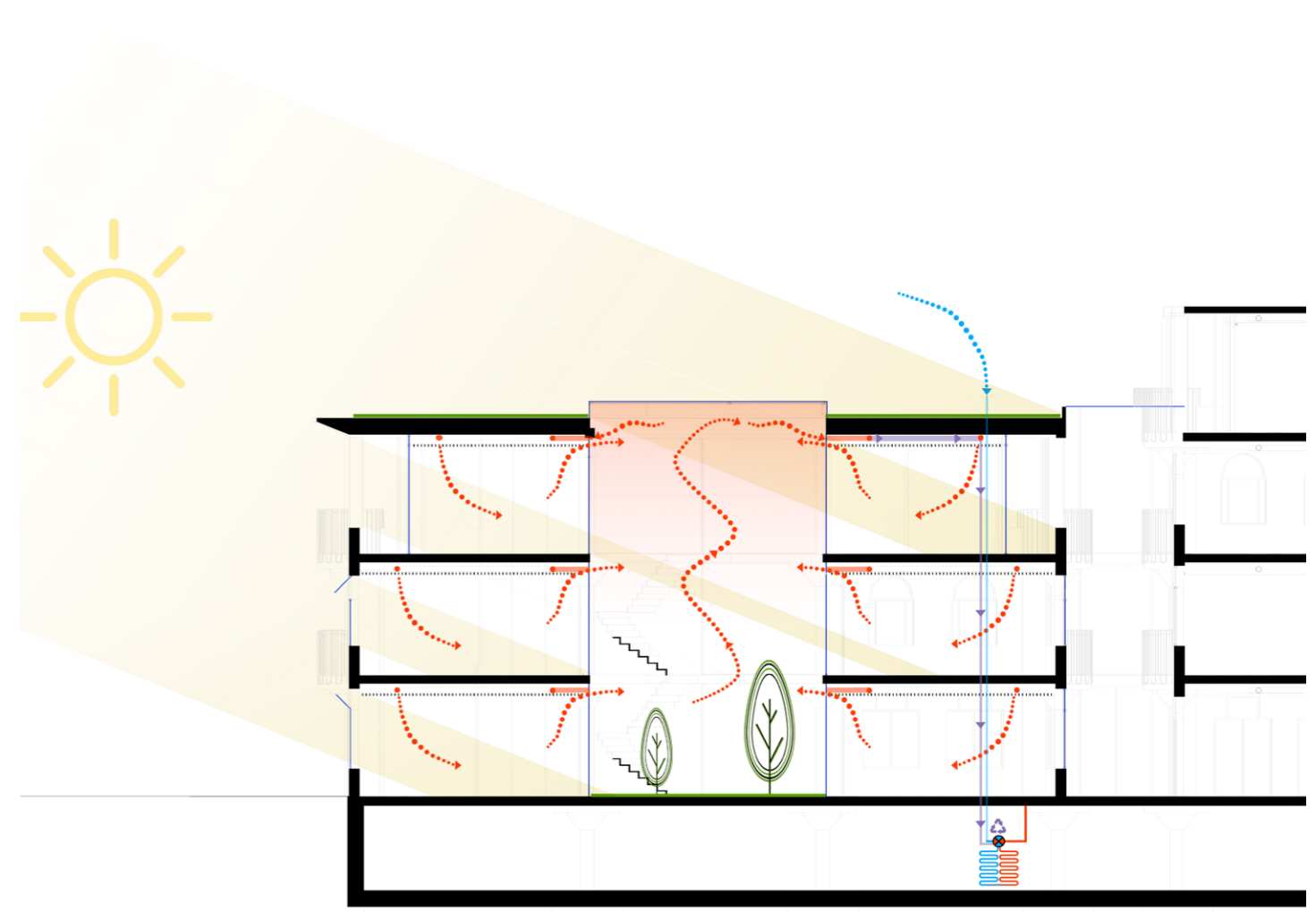


Environmental Strategies Diagram

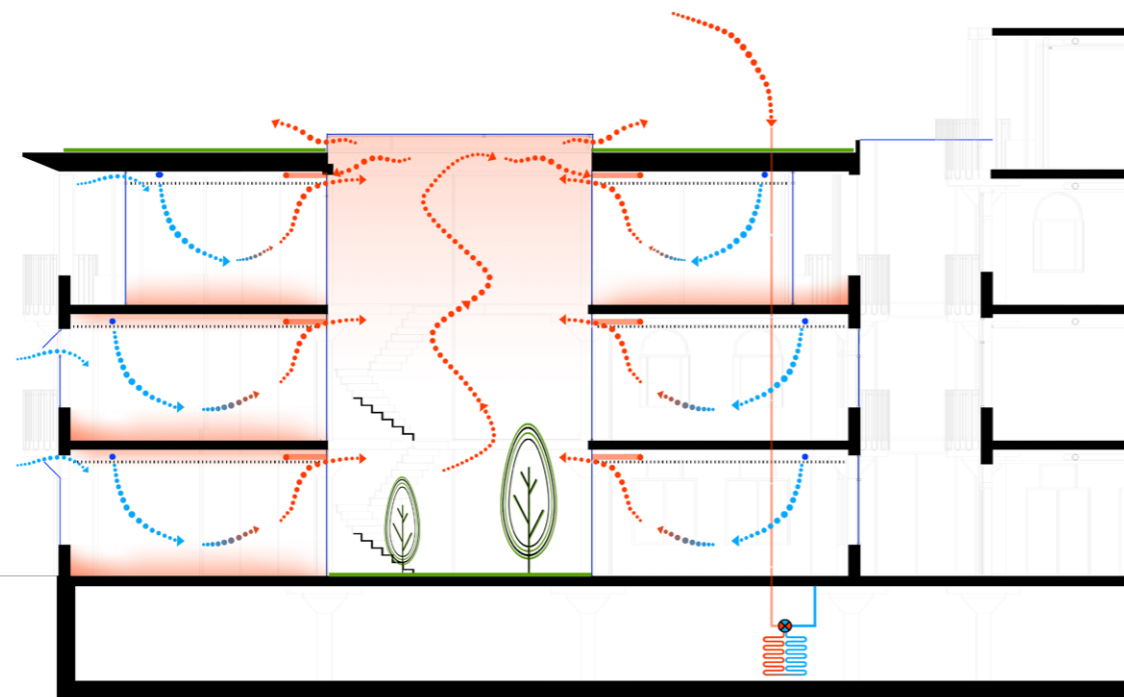
Summer Day



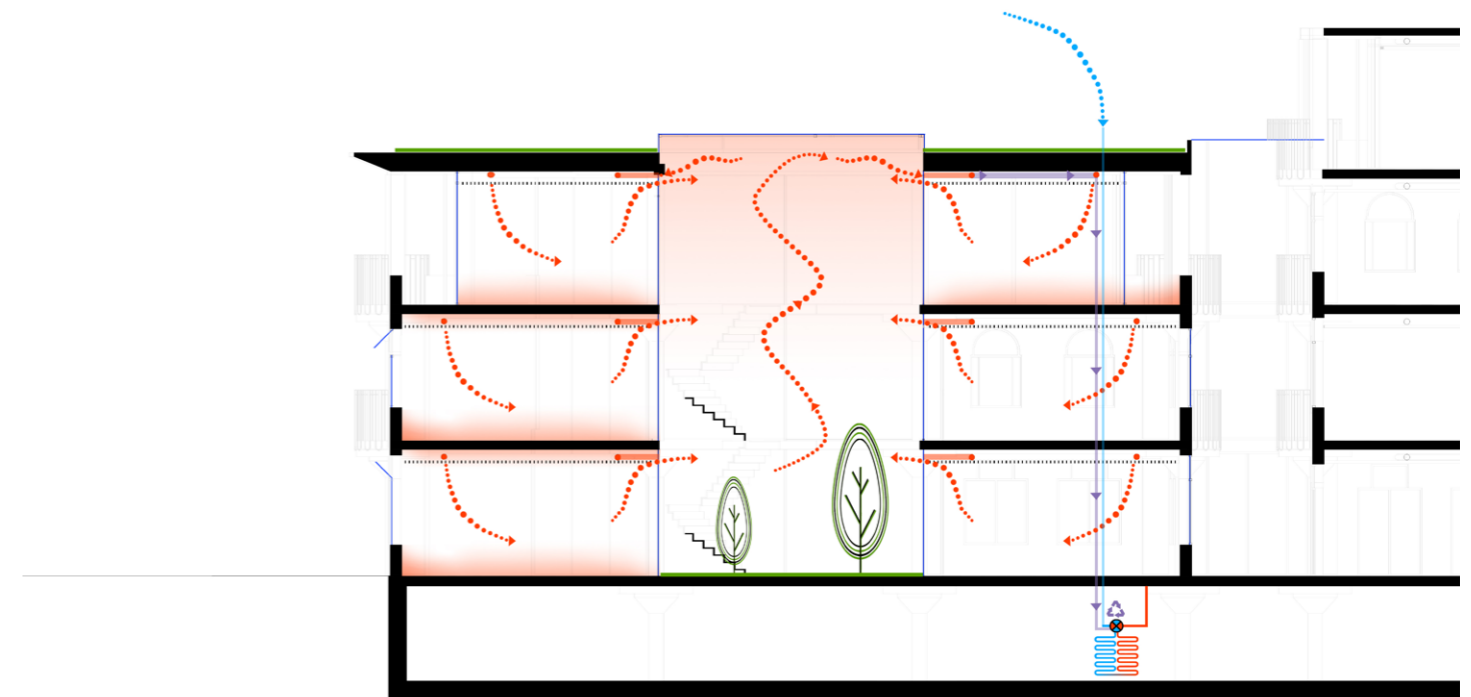
Winter Day



Summer Night

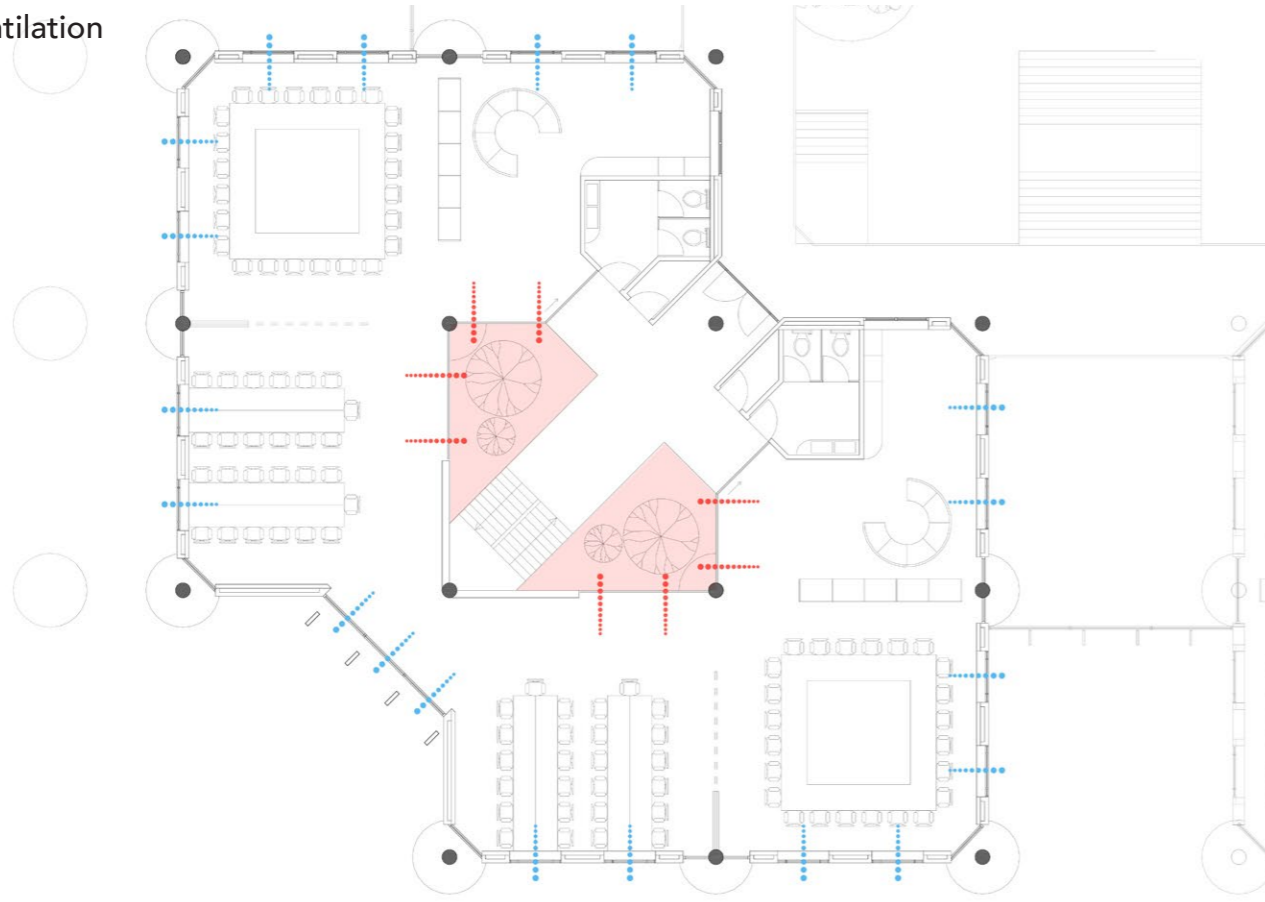


Winter Night

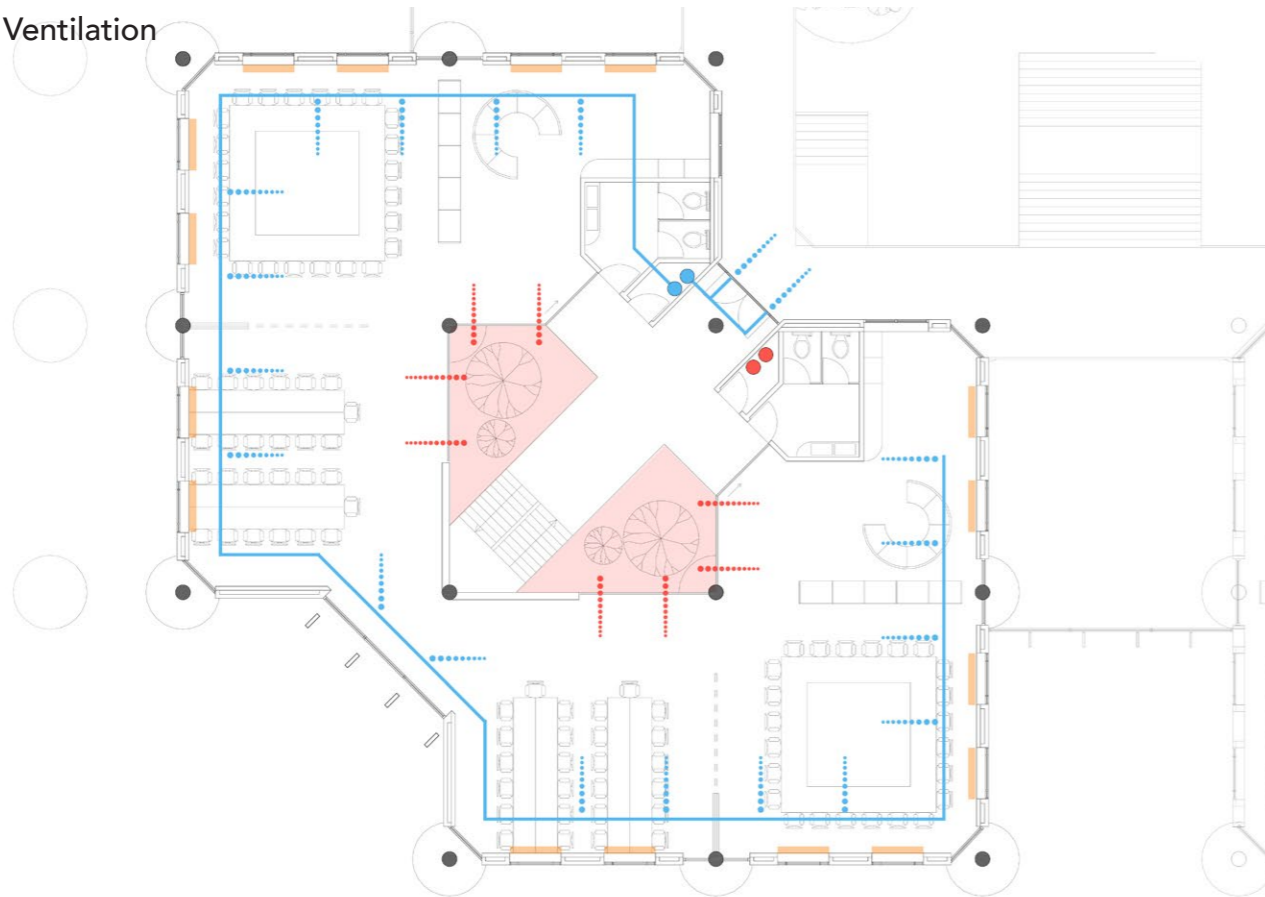


Ventilation Diagram - Existing Buildings' Plan

Natural Ventilation

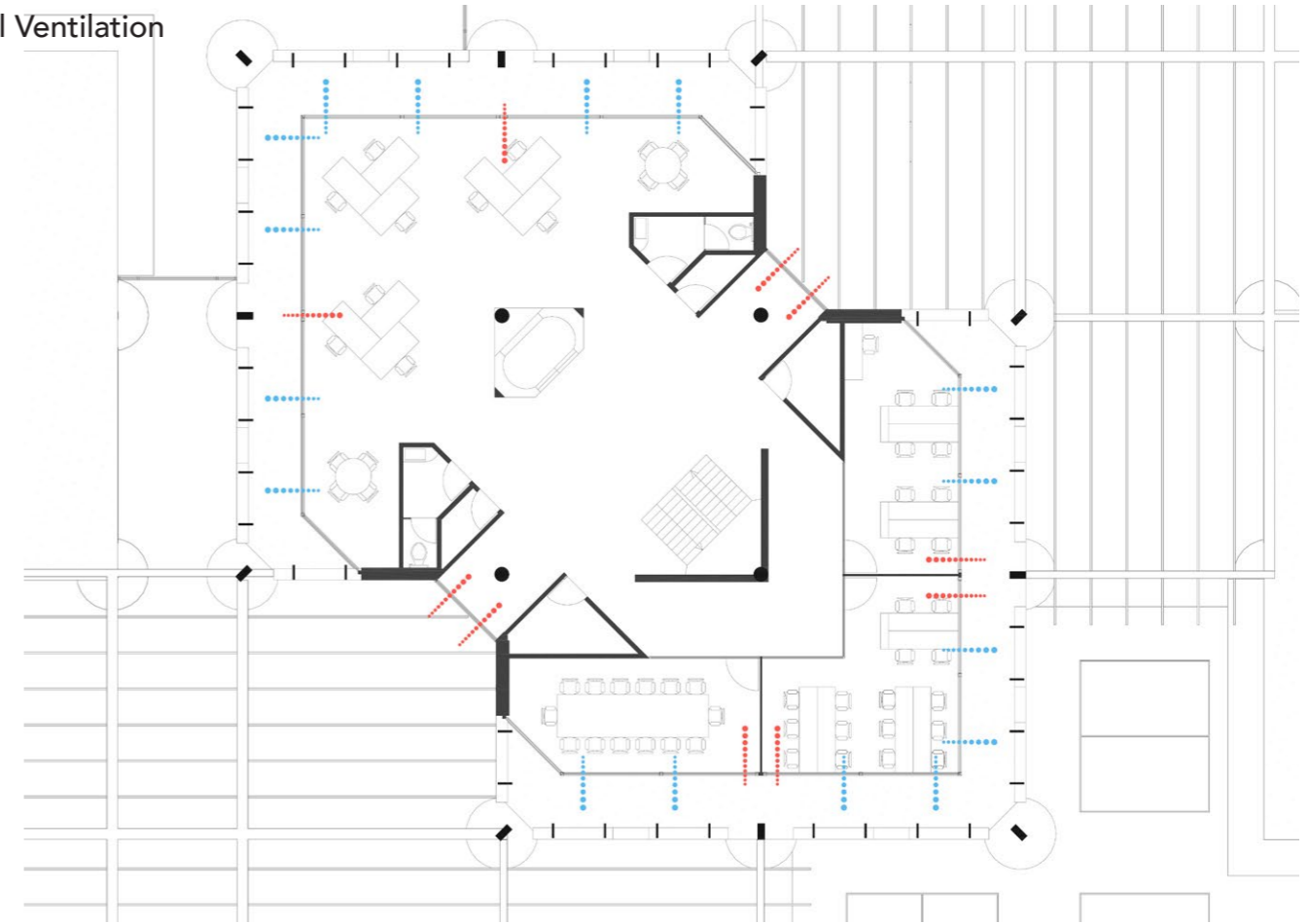


Mechanical Ventilation

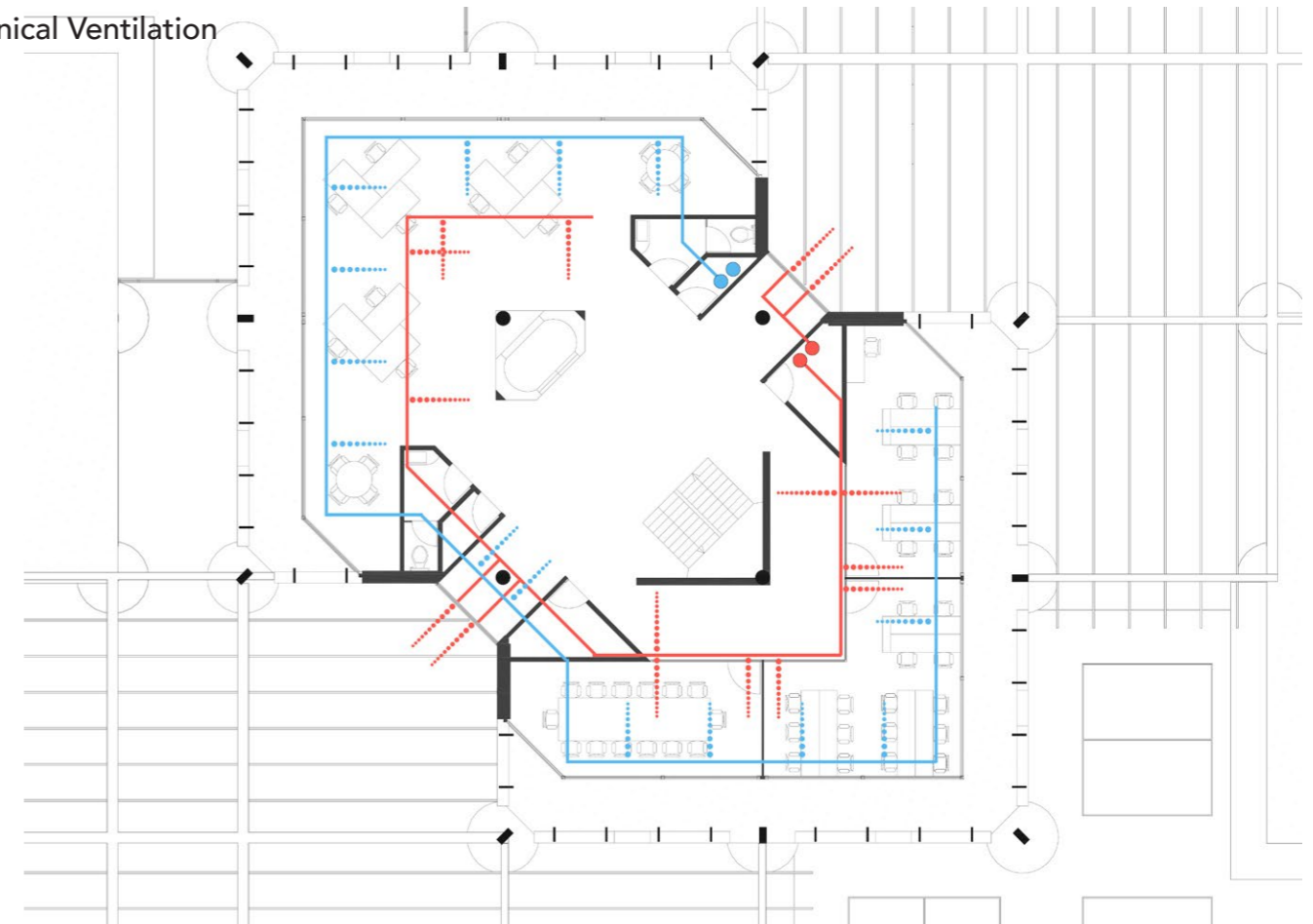


Ventilation Diagram - Extensions' Plan

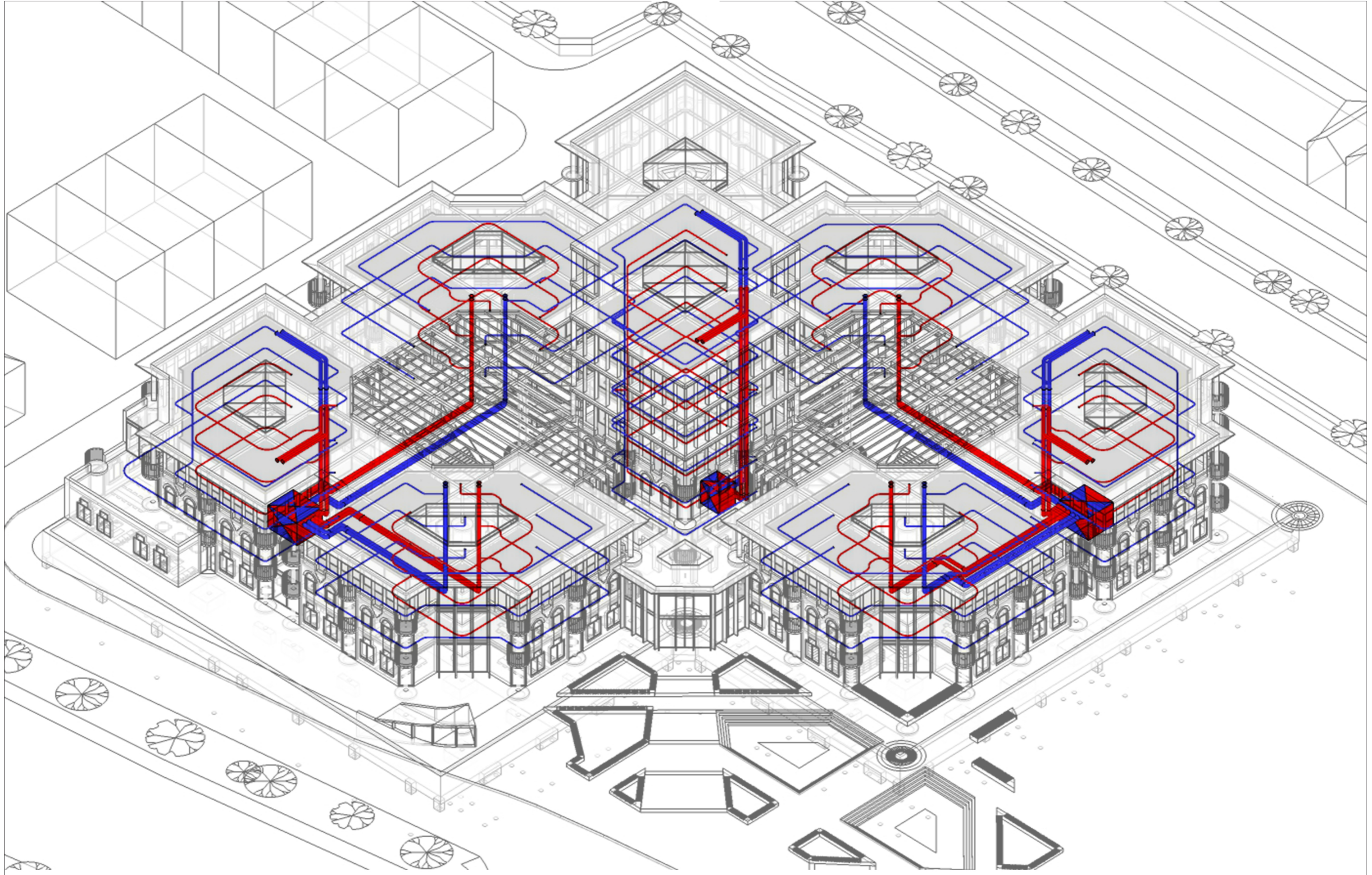
Natural Ventilation



Mechanical Ventilation

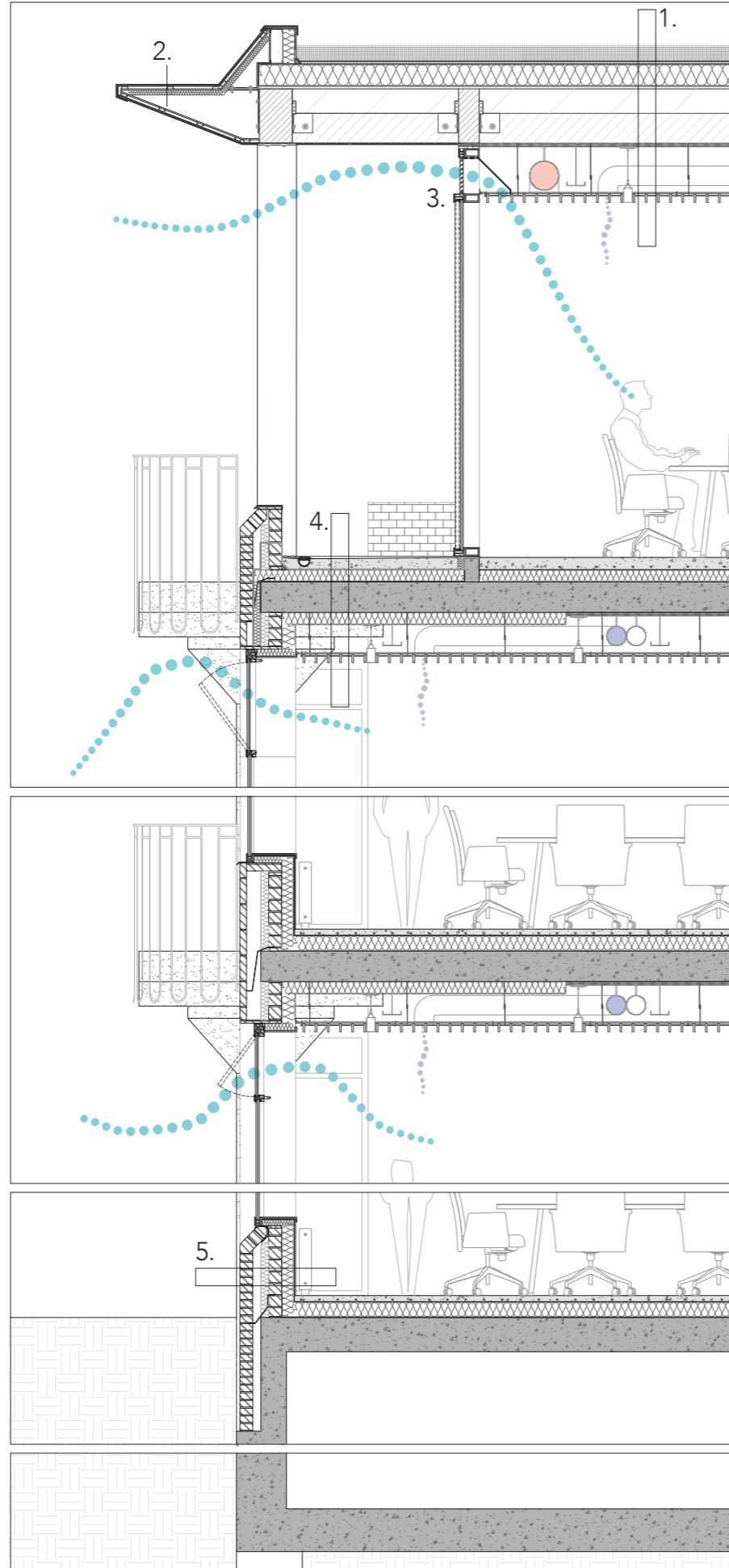


Axonometric Diagram- Mechanical Ventilation

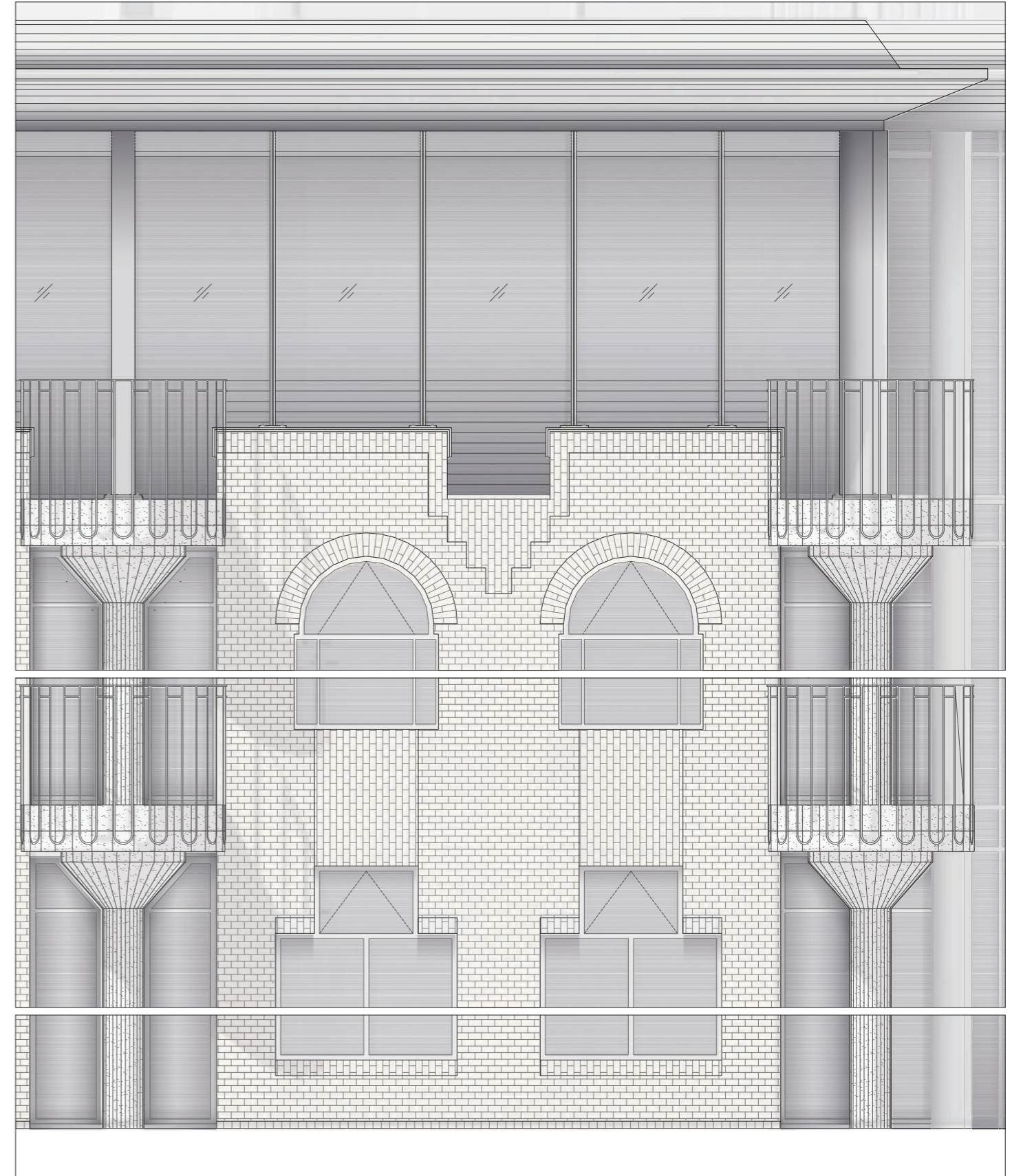


Details - Section, 1:50

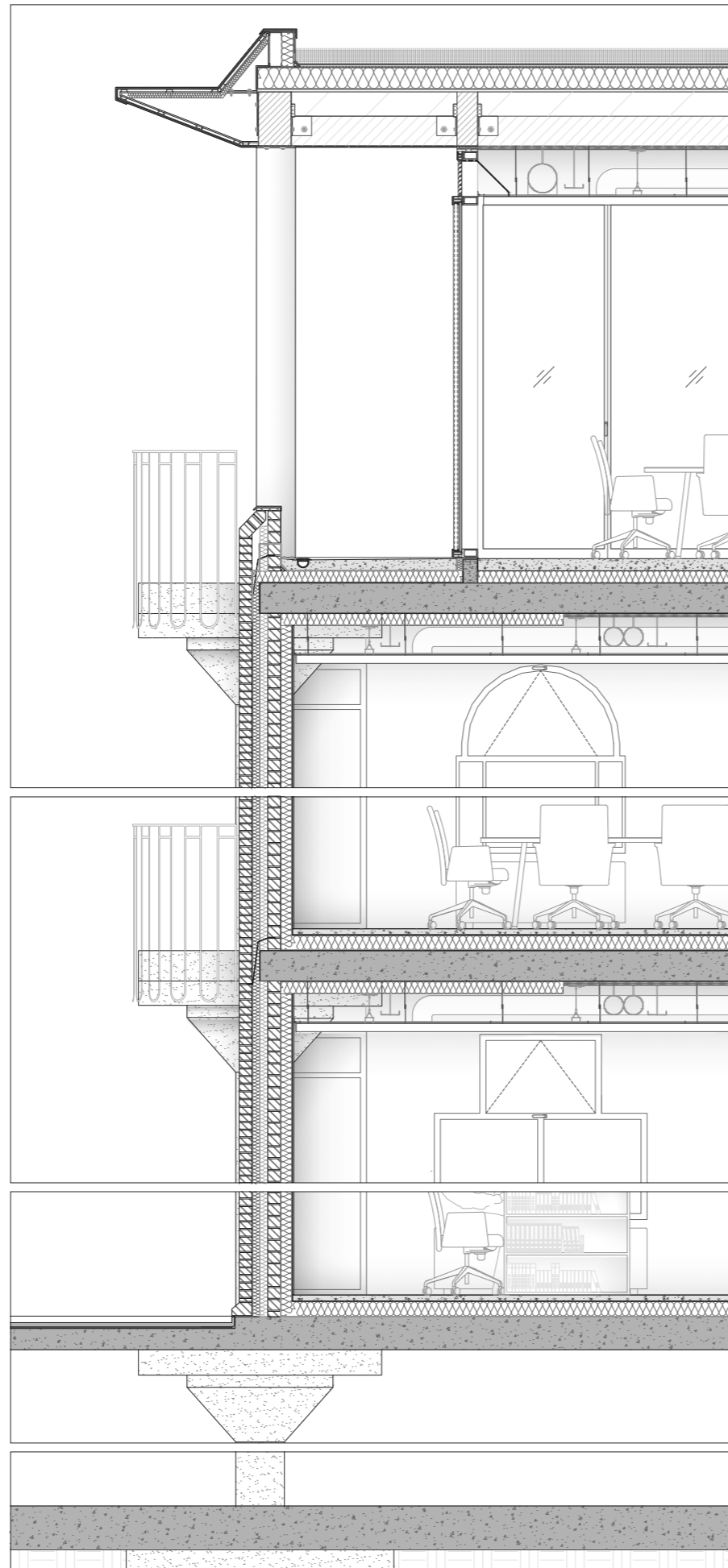
1. 300mm Lightweight Soil
16mm Geotextile
Drainage Panel
Waterproof Membrane
180mm Insulation
Vapour Barrier
18mm Plywood
450 x 300mm Accoya Timber Beam
30mm Insulation
400mm Gap bet. Roof & Suspended Ceiling
Suspended Timber Ceiling, reusing the timber from the existing ceiling
2. 4mm Steel Sheet
Frame of Steel Omega Profiles 20mm
40mm Insulation (Rain noise absorption)
Steel Plate with T-Shaped Edges
3. Air Inlets
4. 80mm Cast in-situ Concrete
Waterproof Membrane
100mm Insulation
Vapour Barrier
250mm Existing Concrete Floor Slab
100mm Insulation
400mm Gap bet. Roof & Suspended Ceiling
Suspended Timber Ceiling, reusing the timber from the existing ceiling
5. 105mm Red Brick
65mm Cavity
65mm Insulation (Existing)
105mm Concrete Blocks
Waterproof Membrane
100mm Insulation
Vapour Barrier
Plasterboard



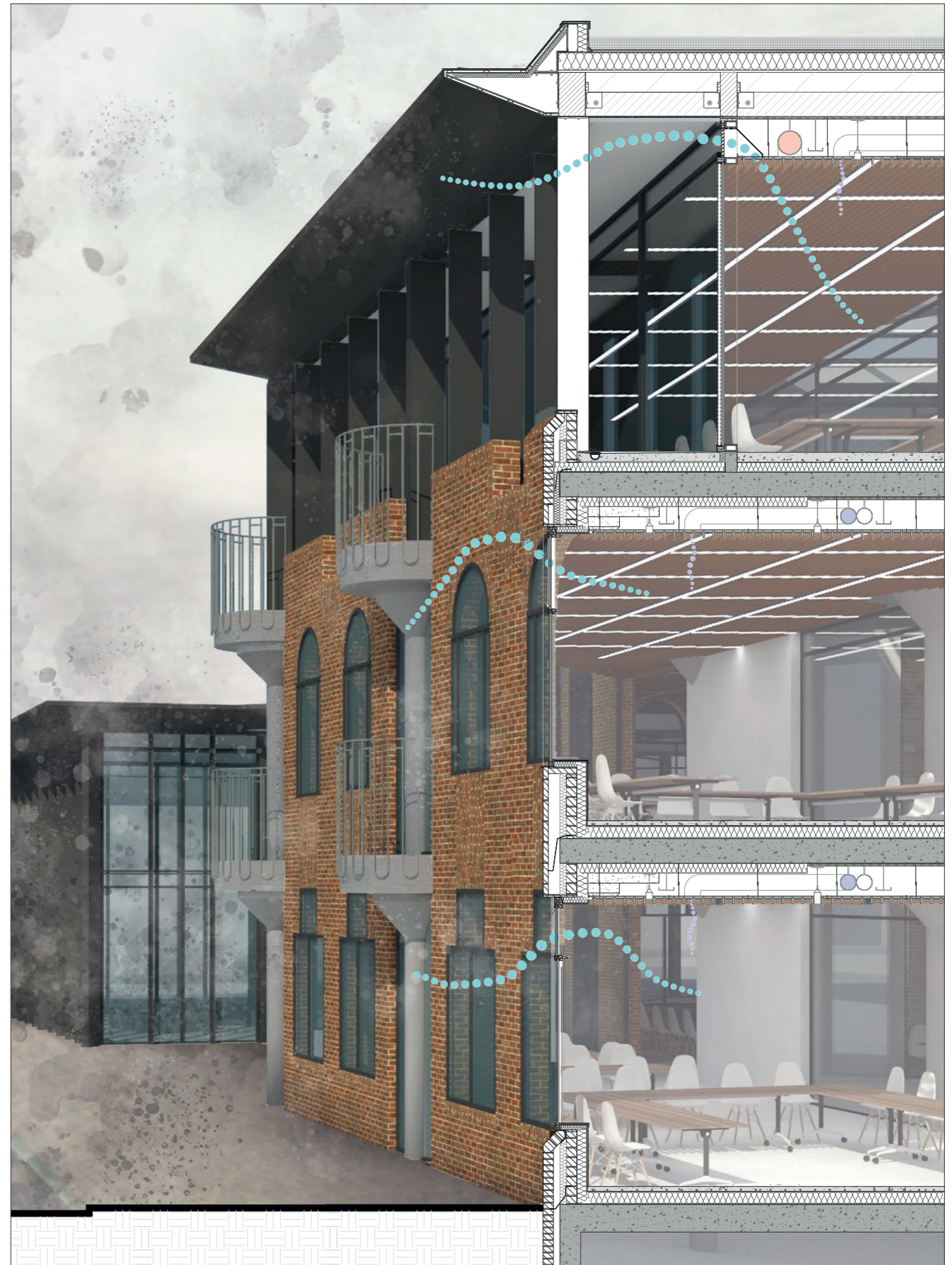
Details - Elevation, 1:50



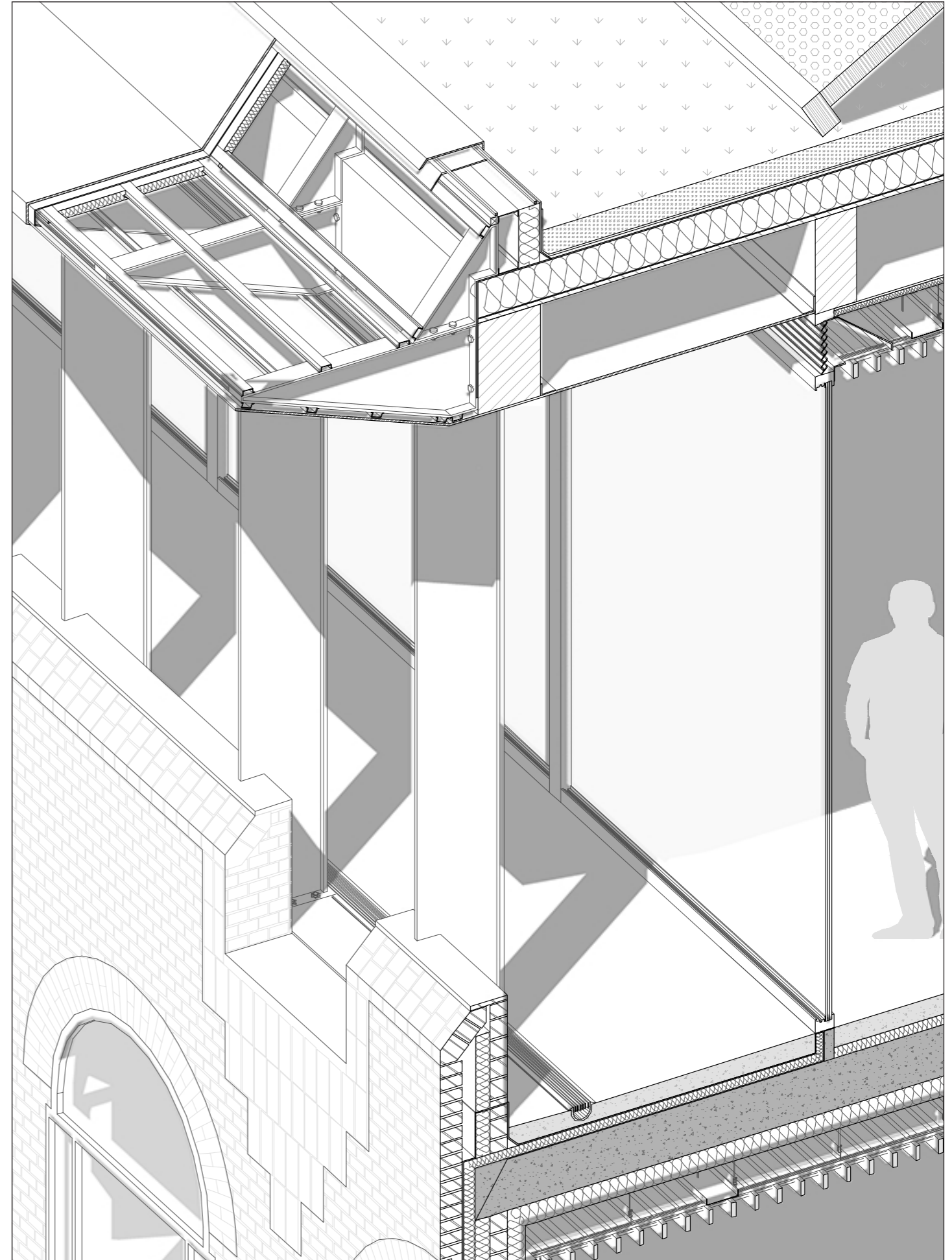
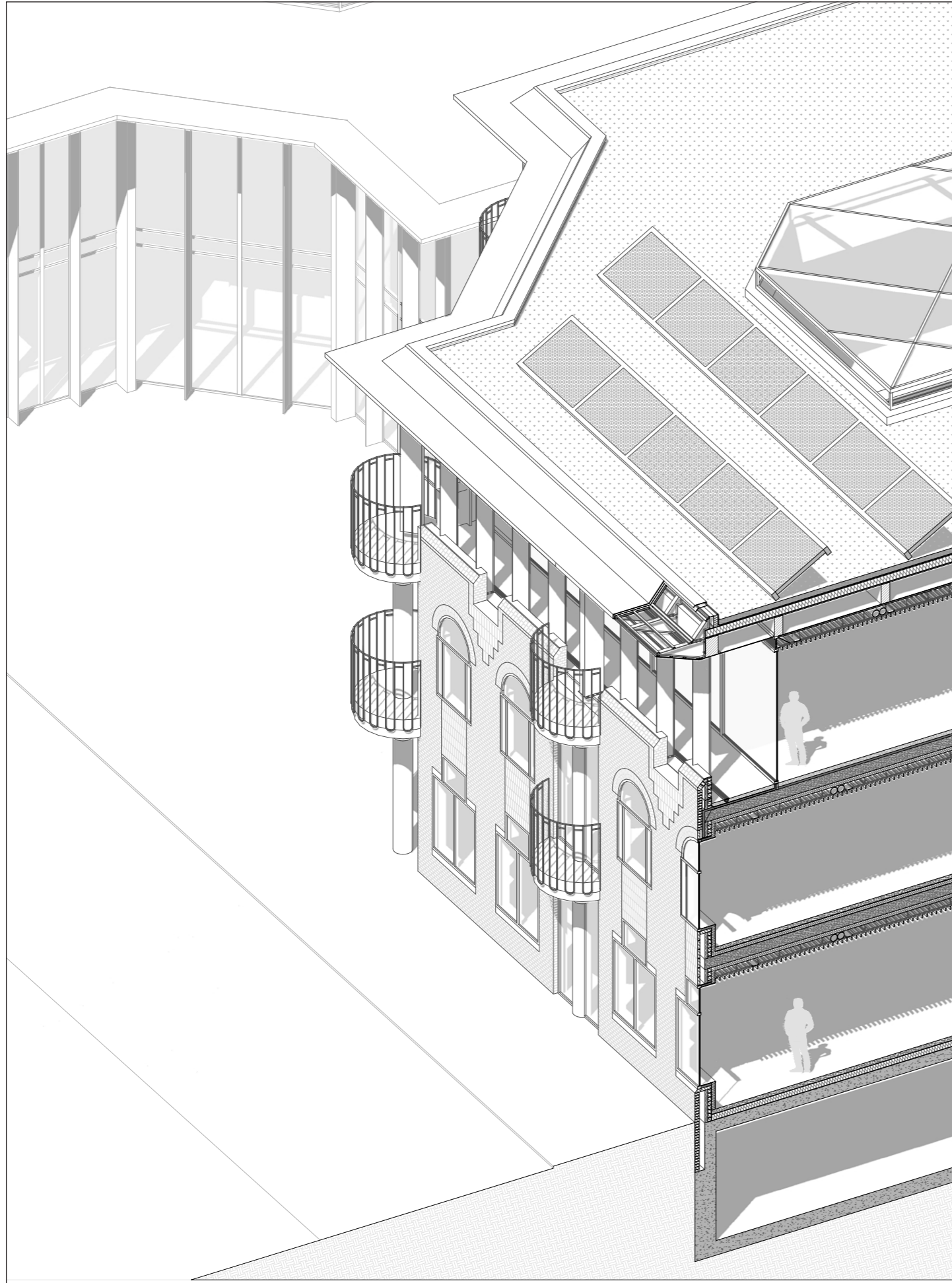
Details - Interior Elevation, 1:50



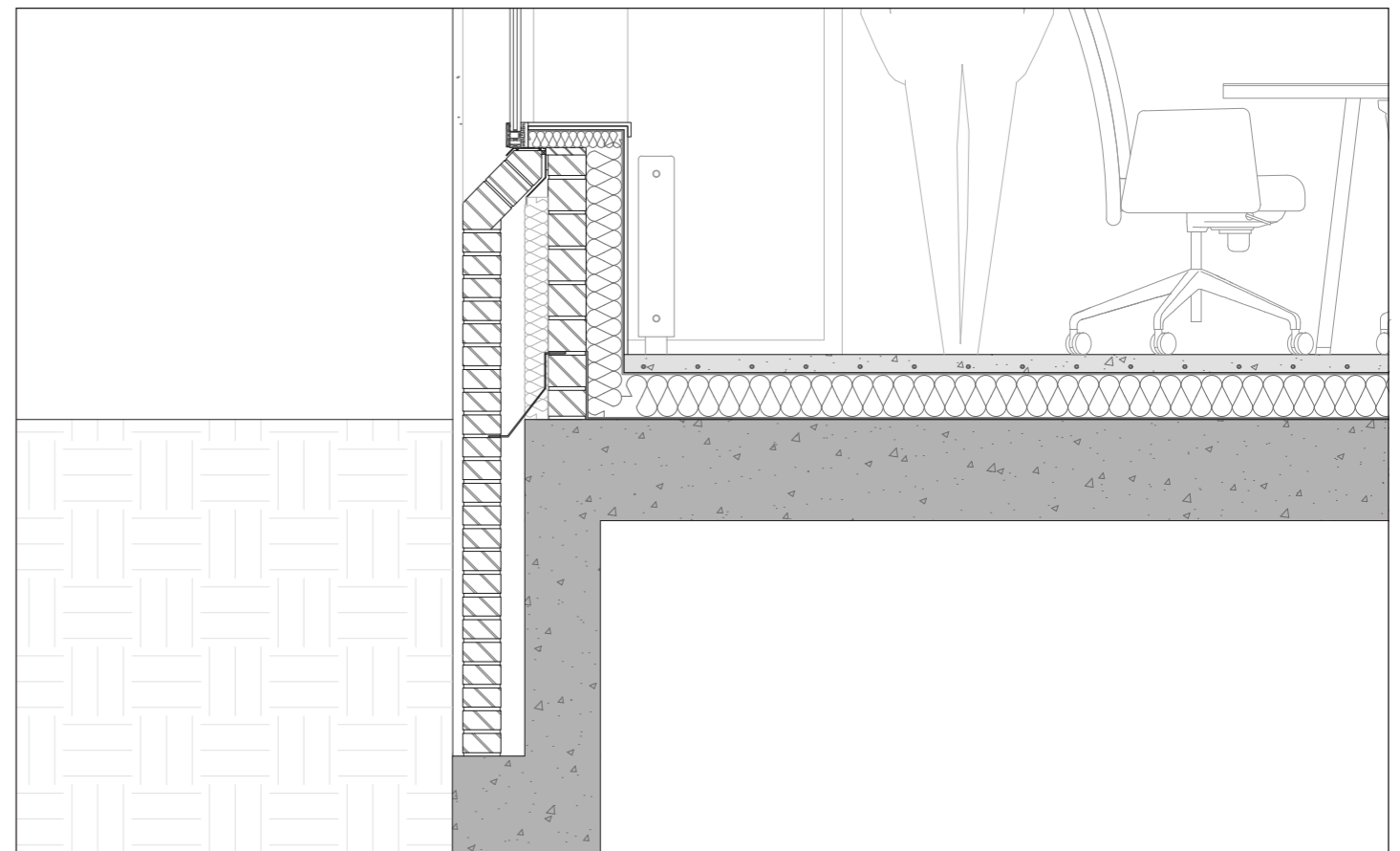
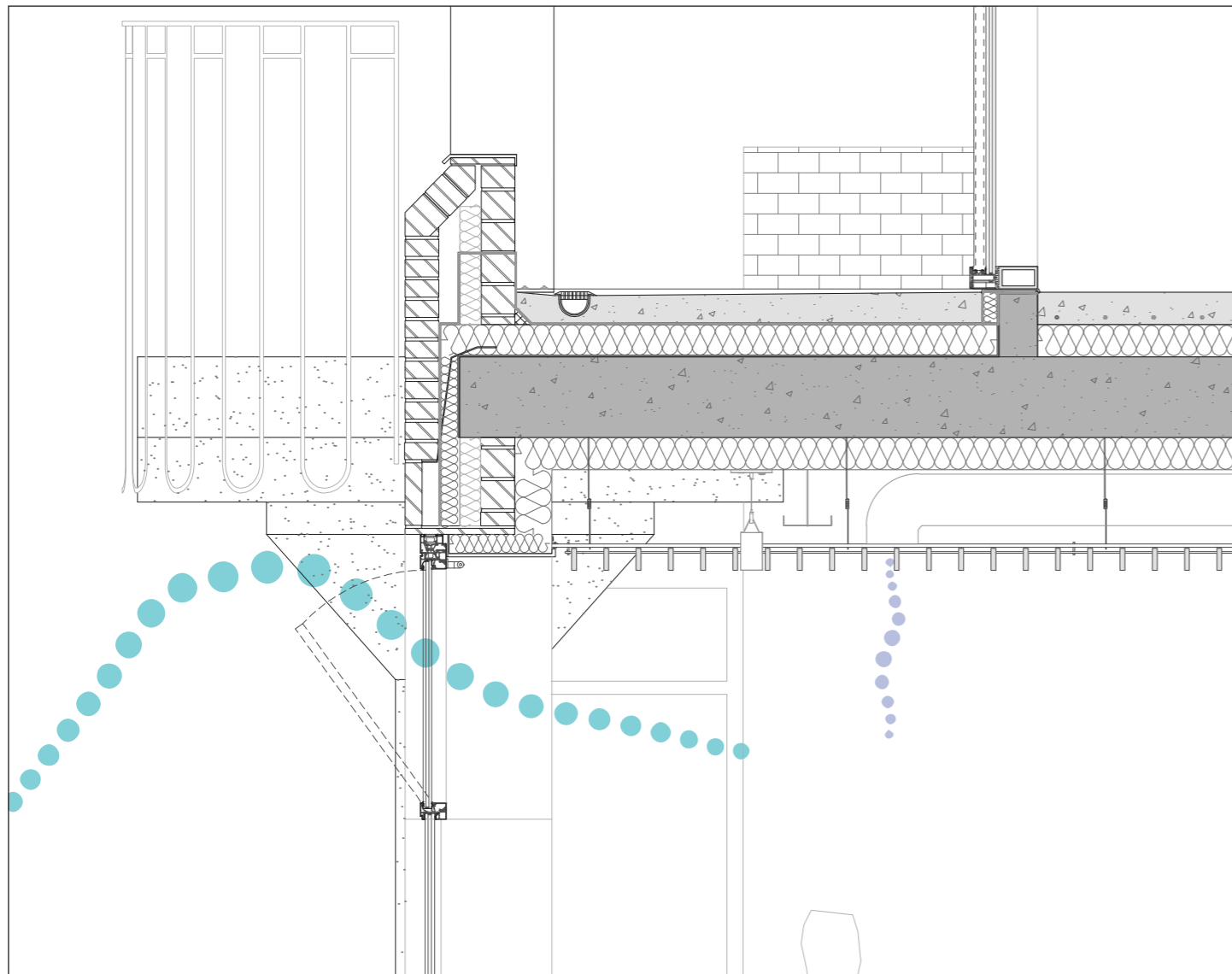
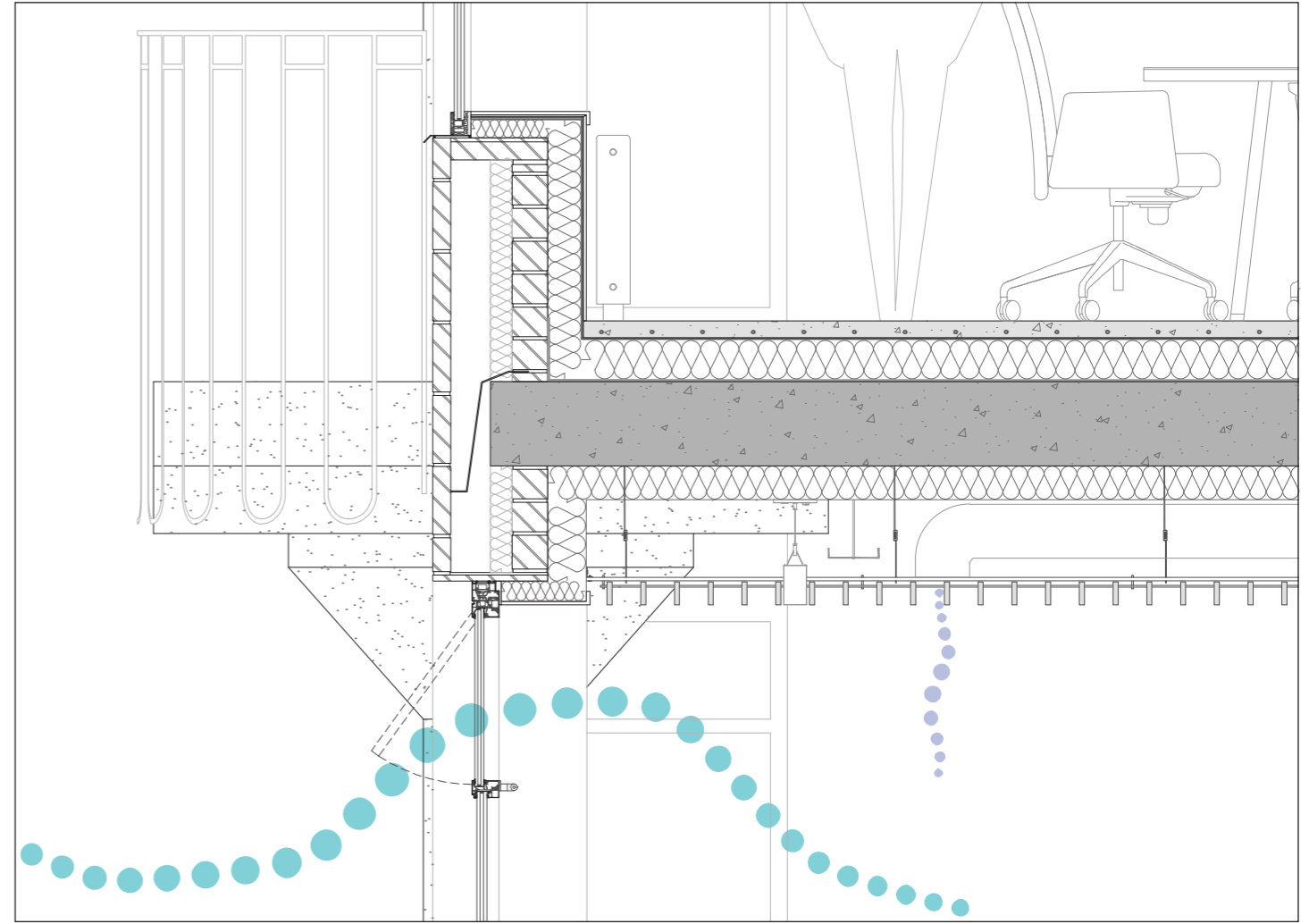
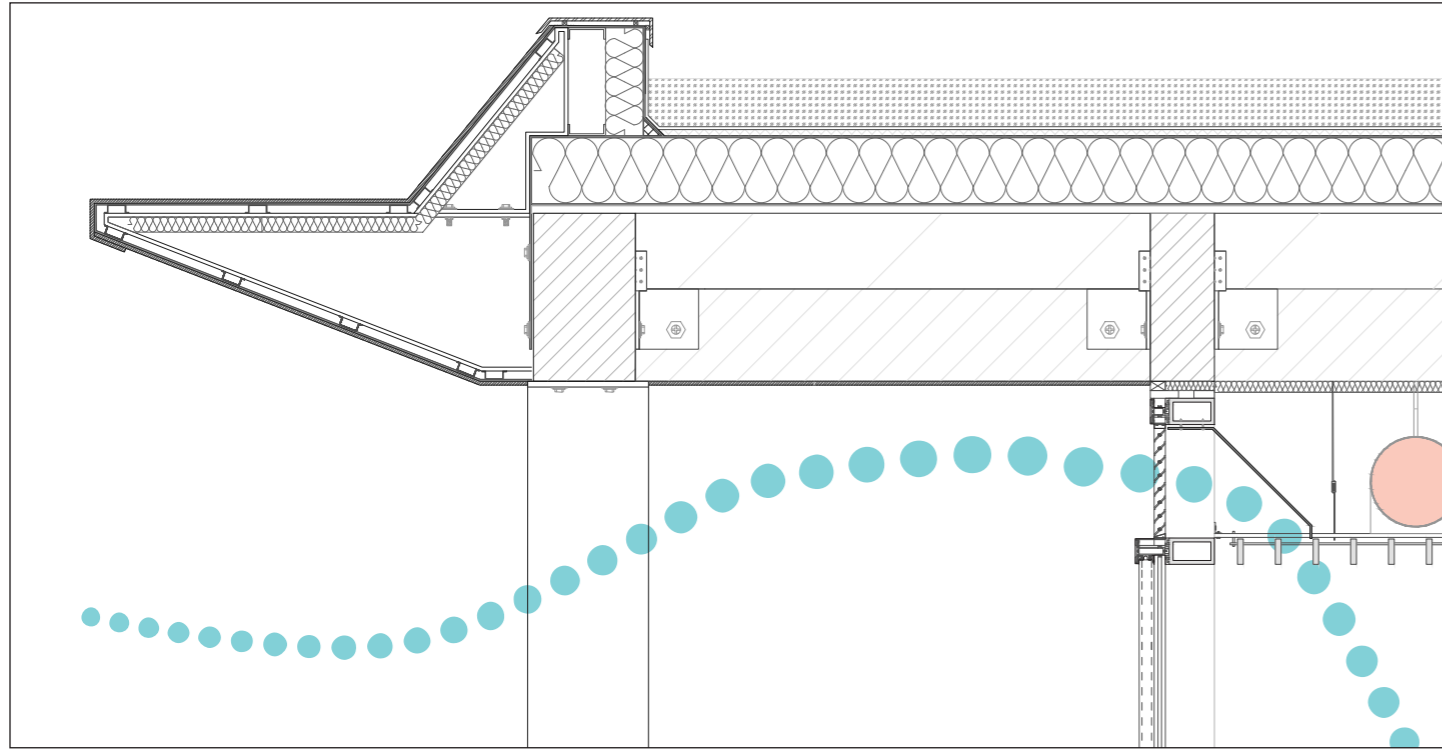
Details - Sectional Perspective, 1:50



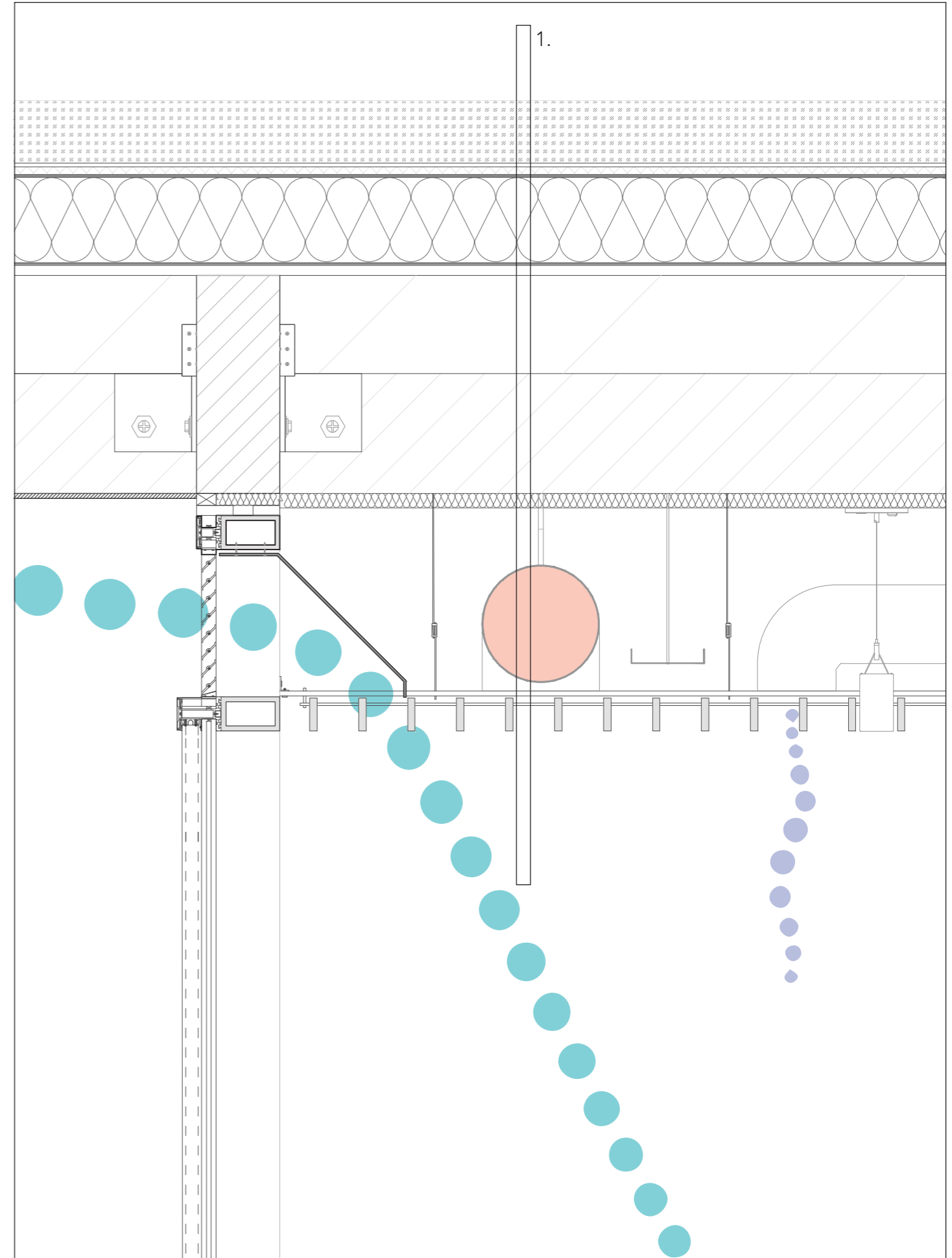
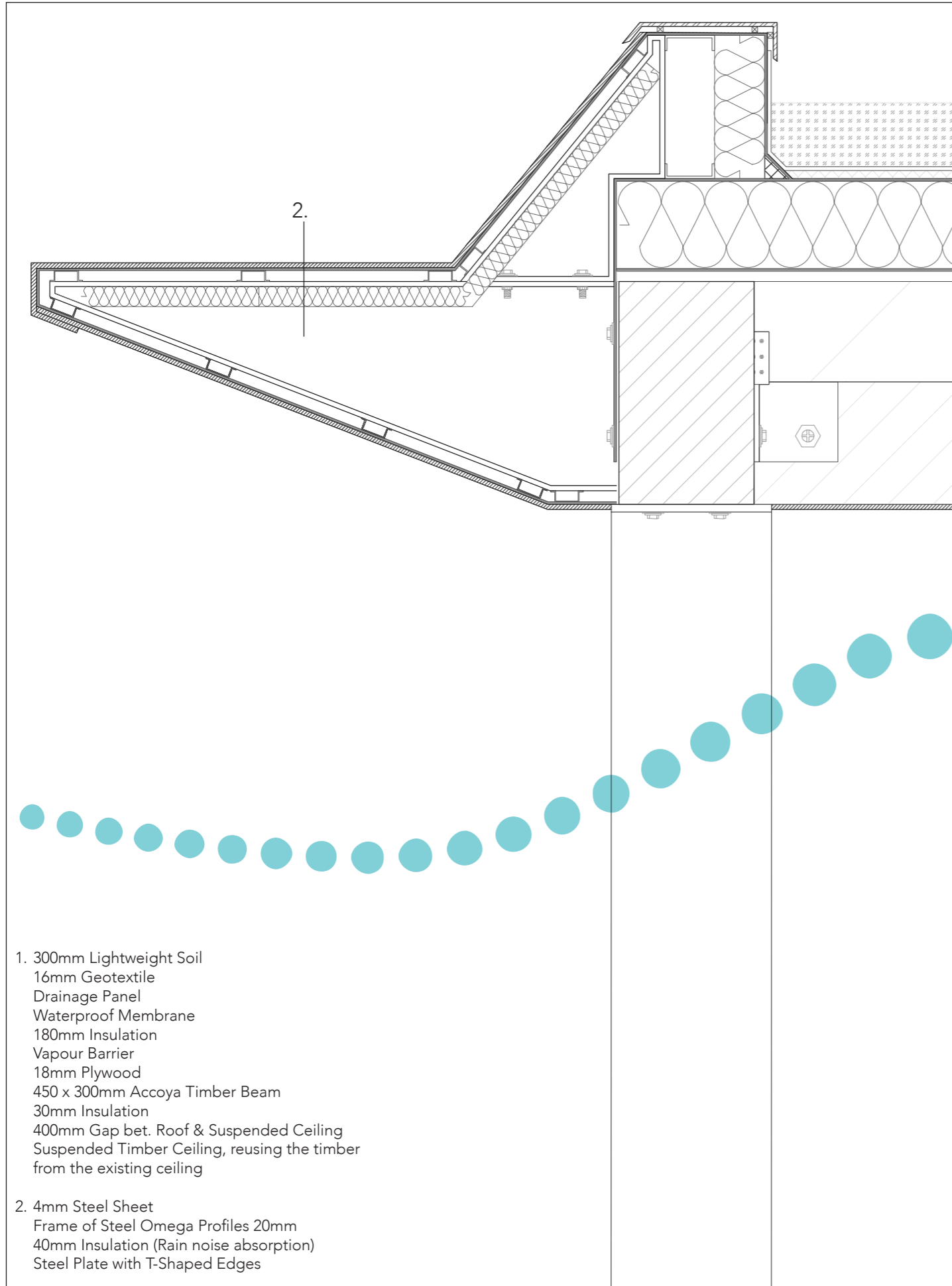
3D Axonometric Detail



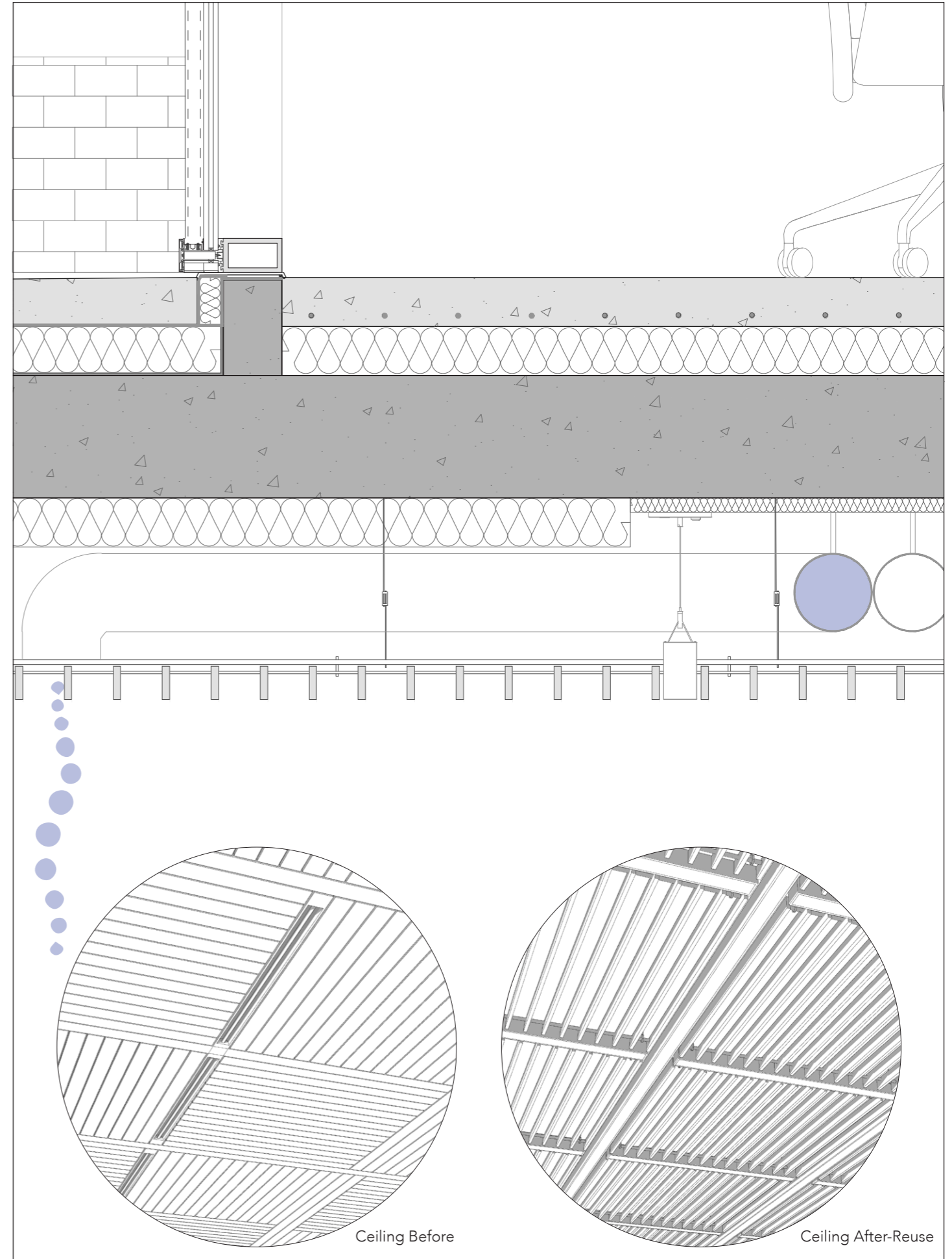
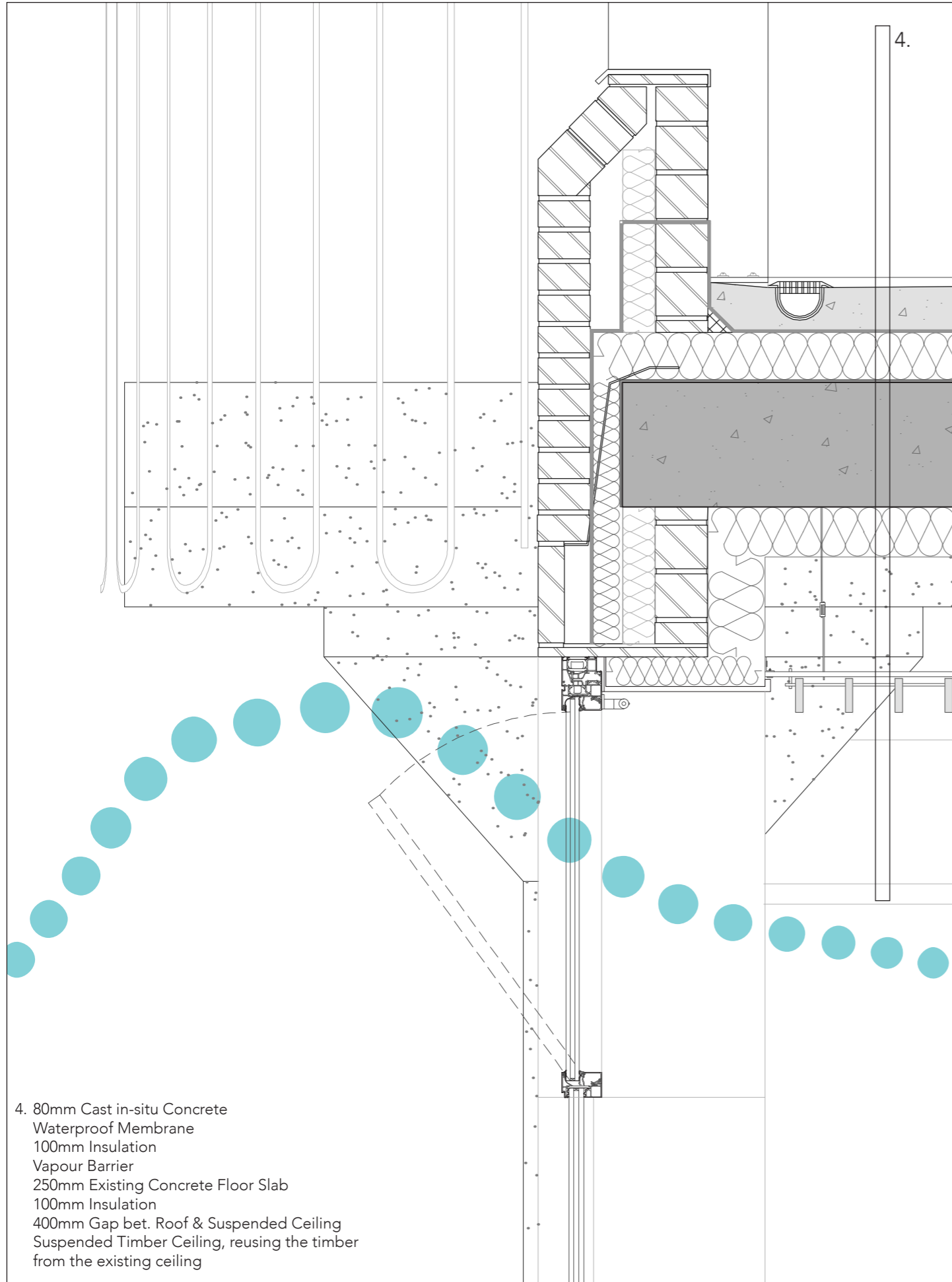
Details - Section, 1:20



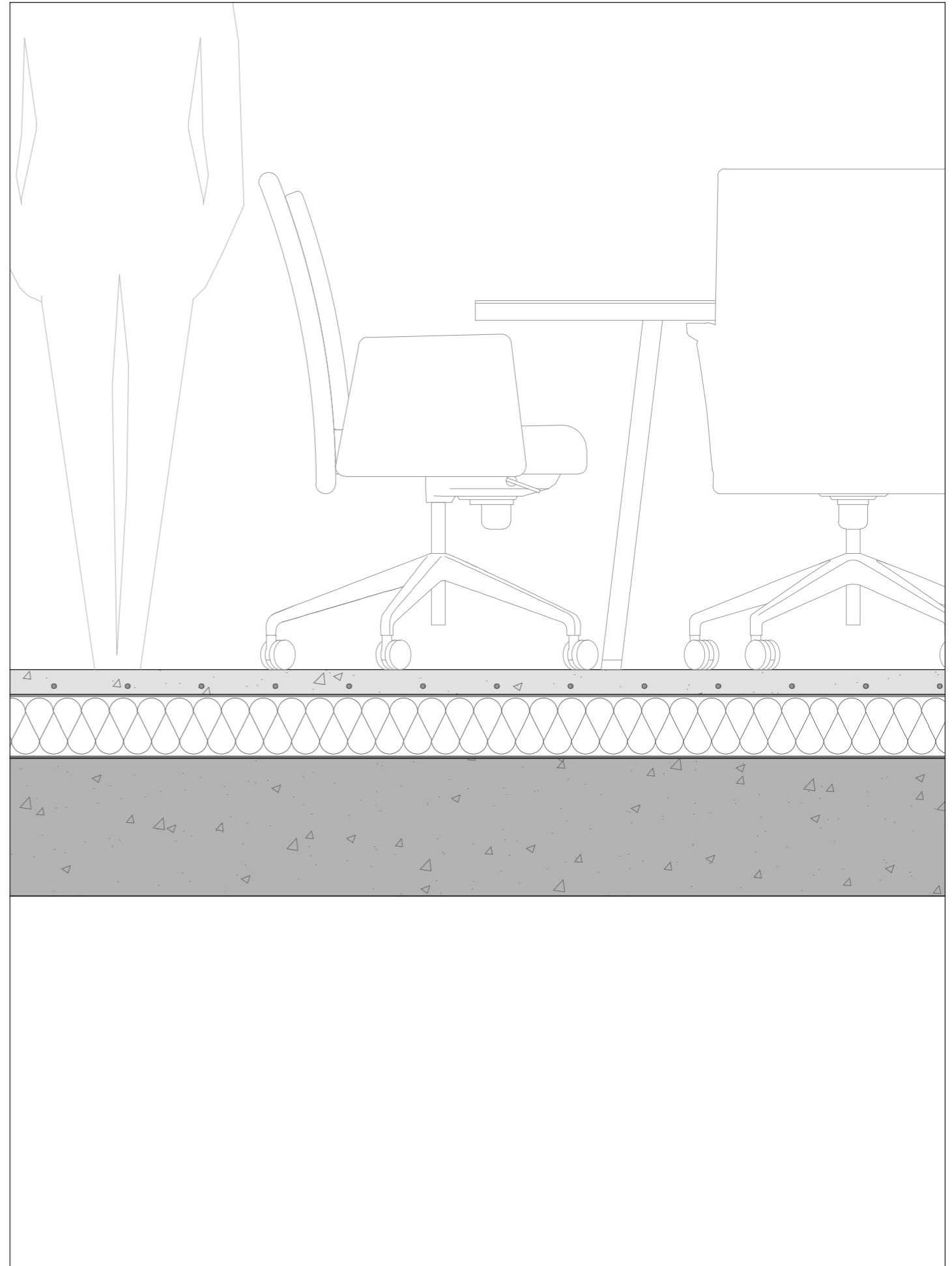
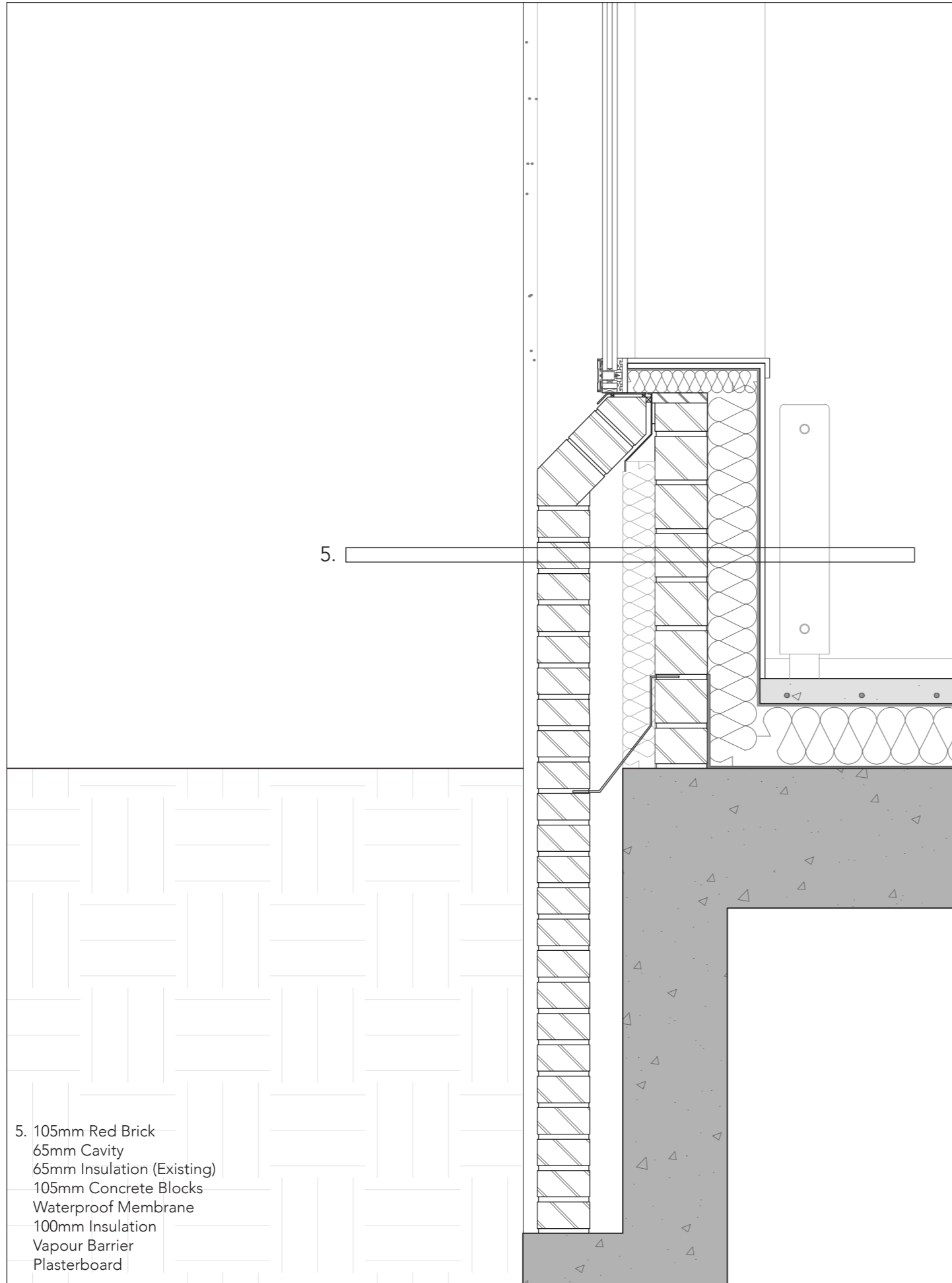
Details - Section, 1:10



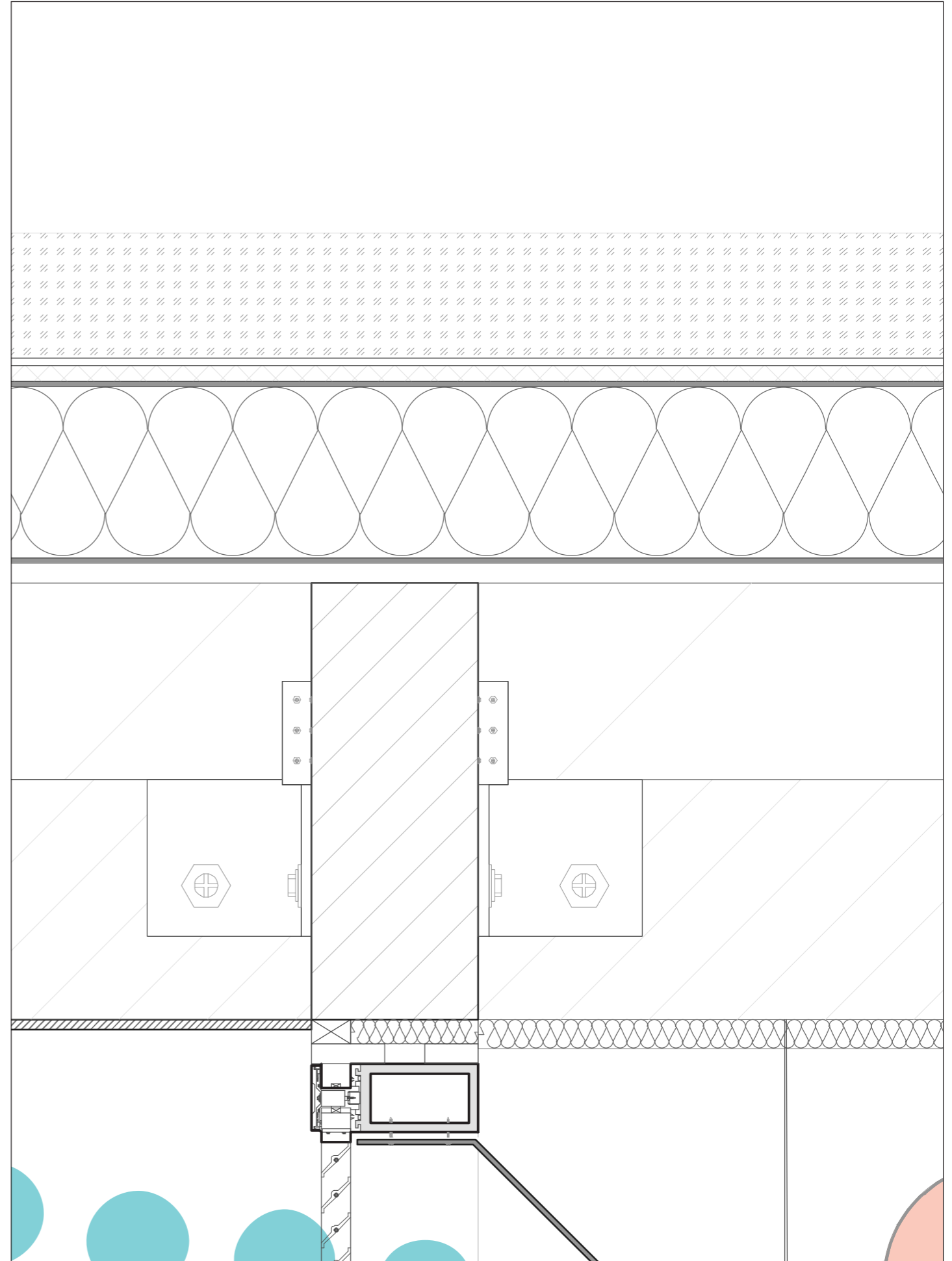
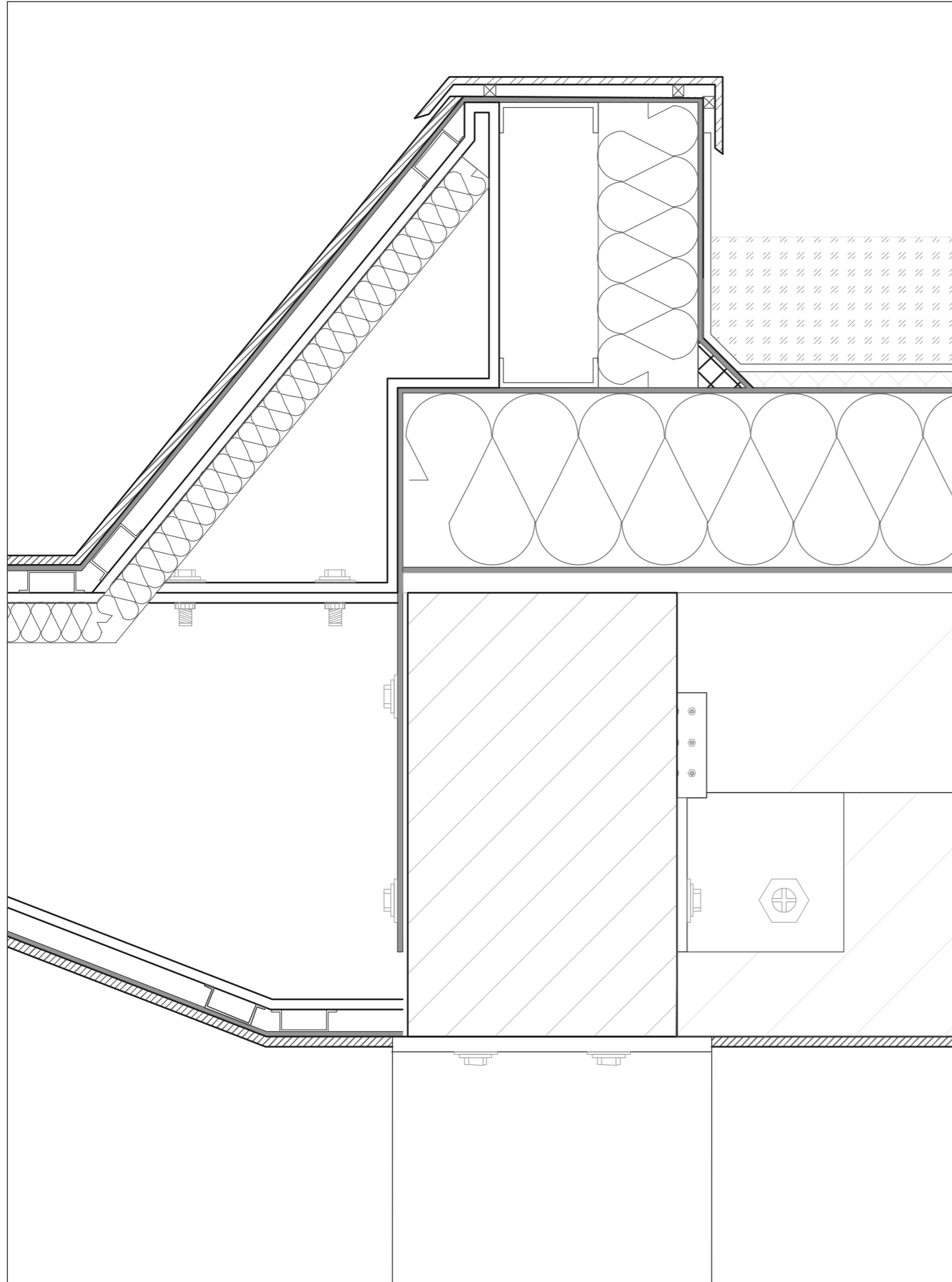
Details - Section, 1:10



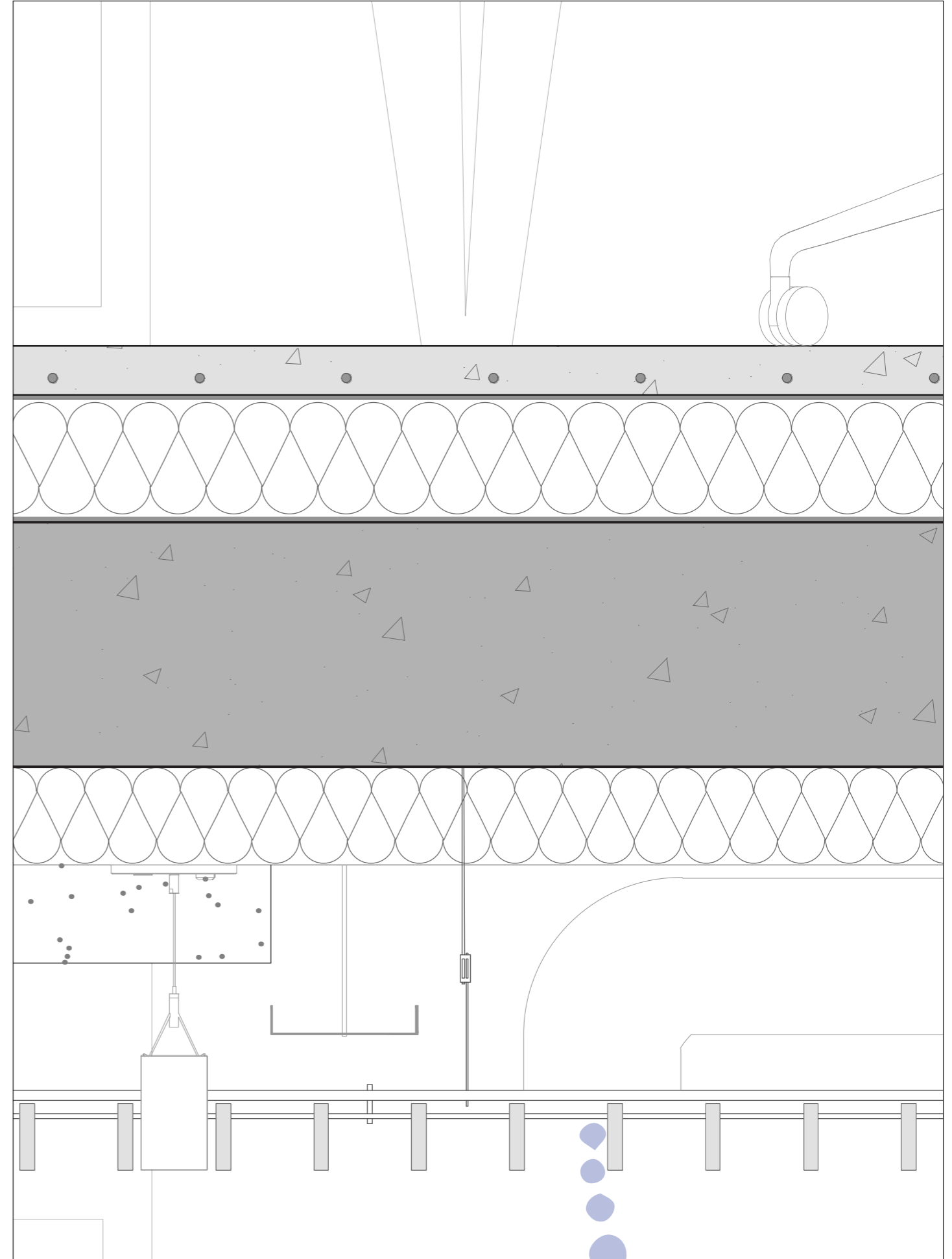
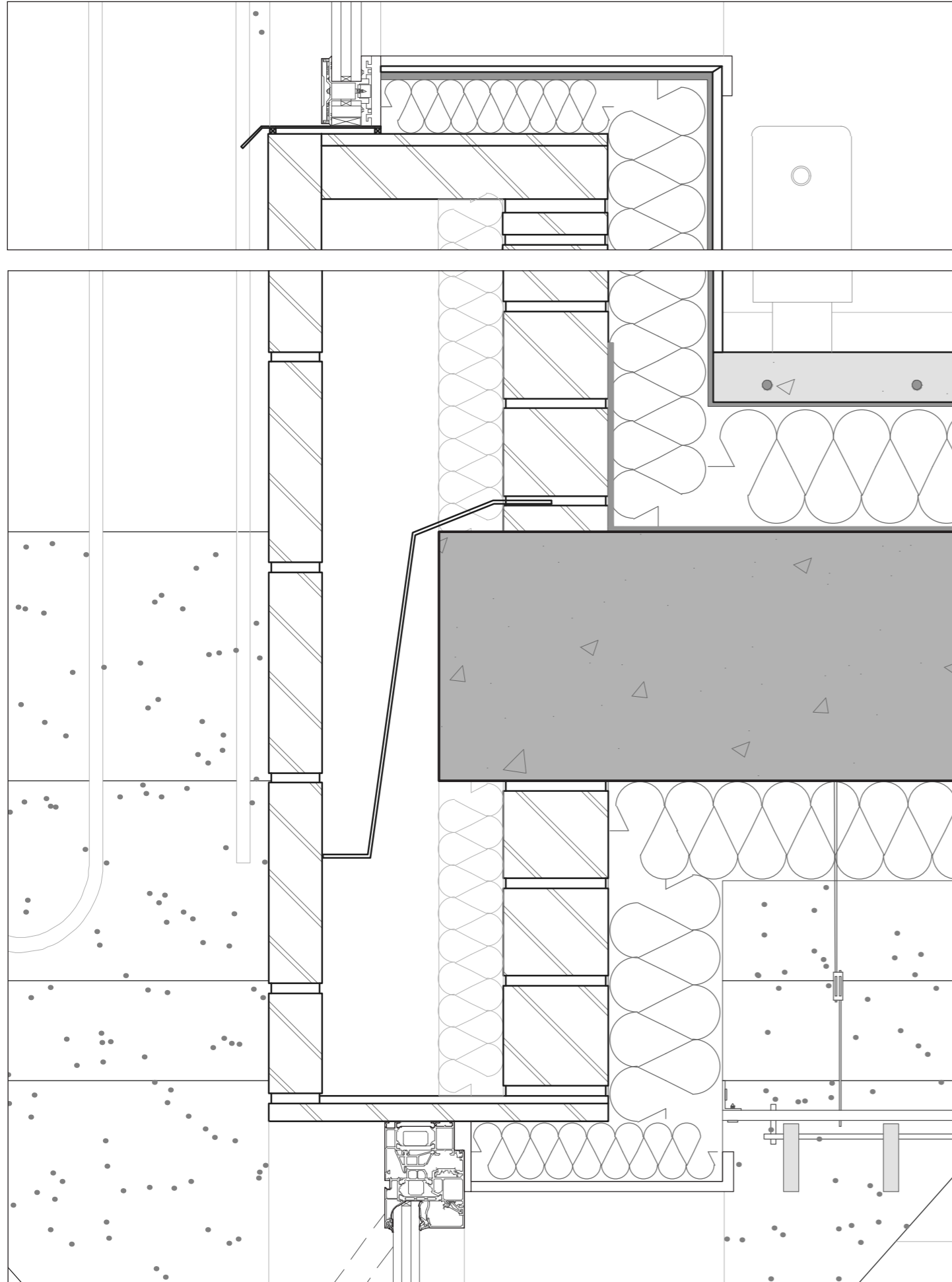
Details - Section, 1:10



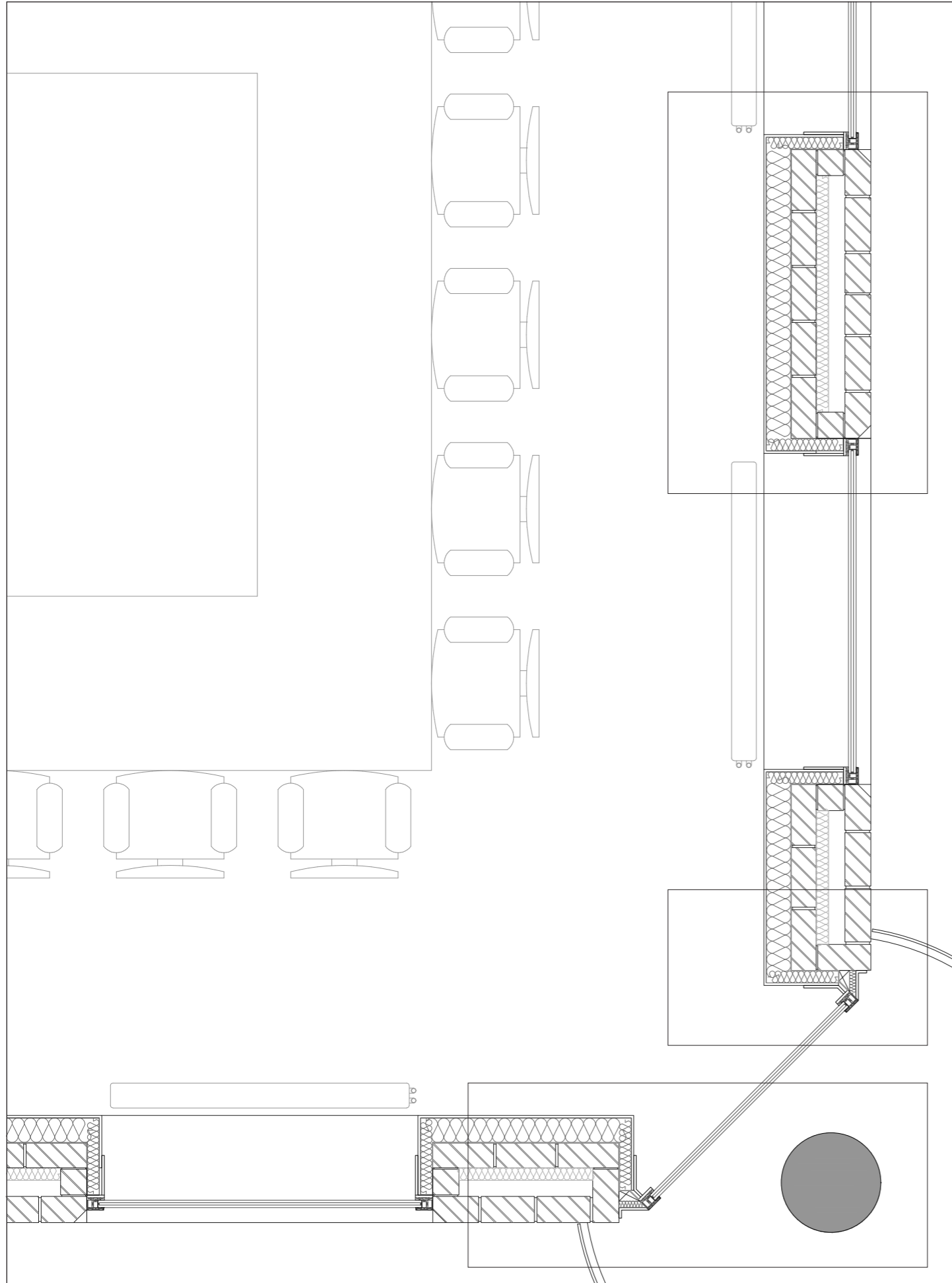
Details - Section, 1:5



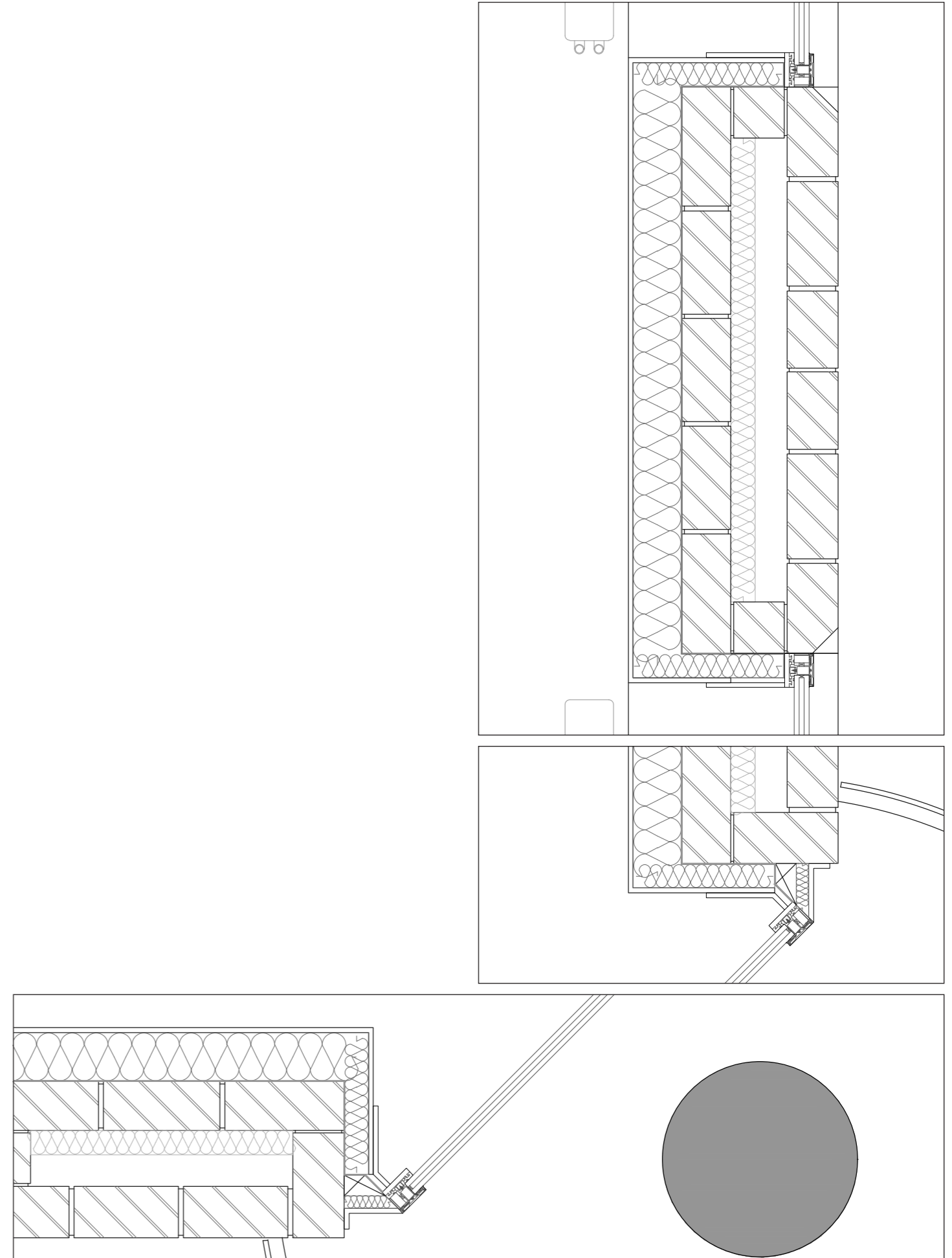
Details - Section, 1:5



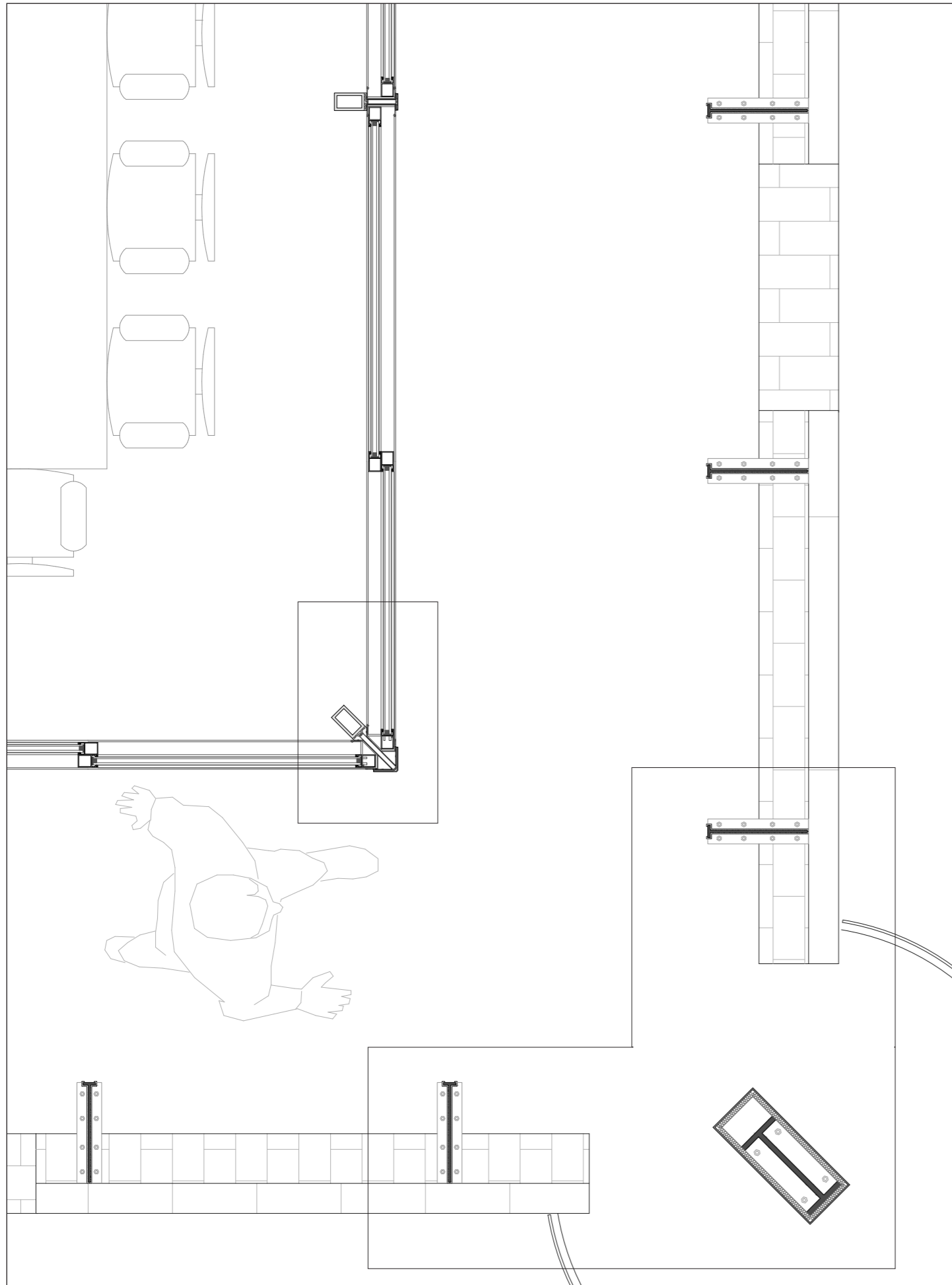
Details - Existing Plan, 1:20



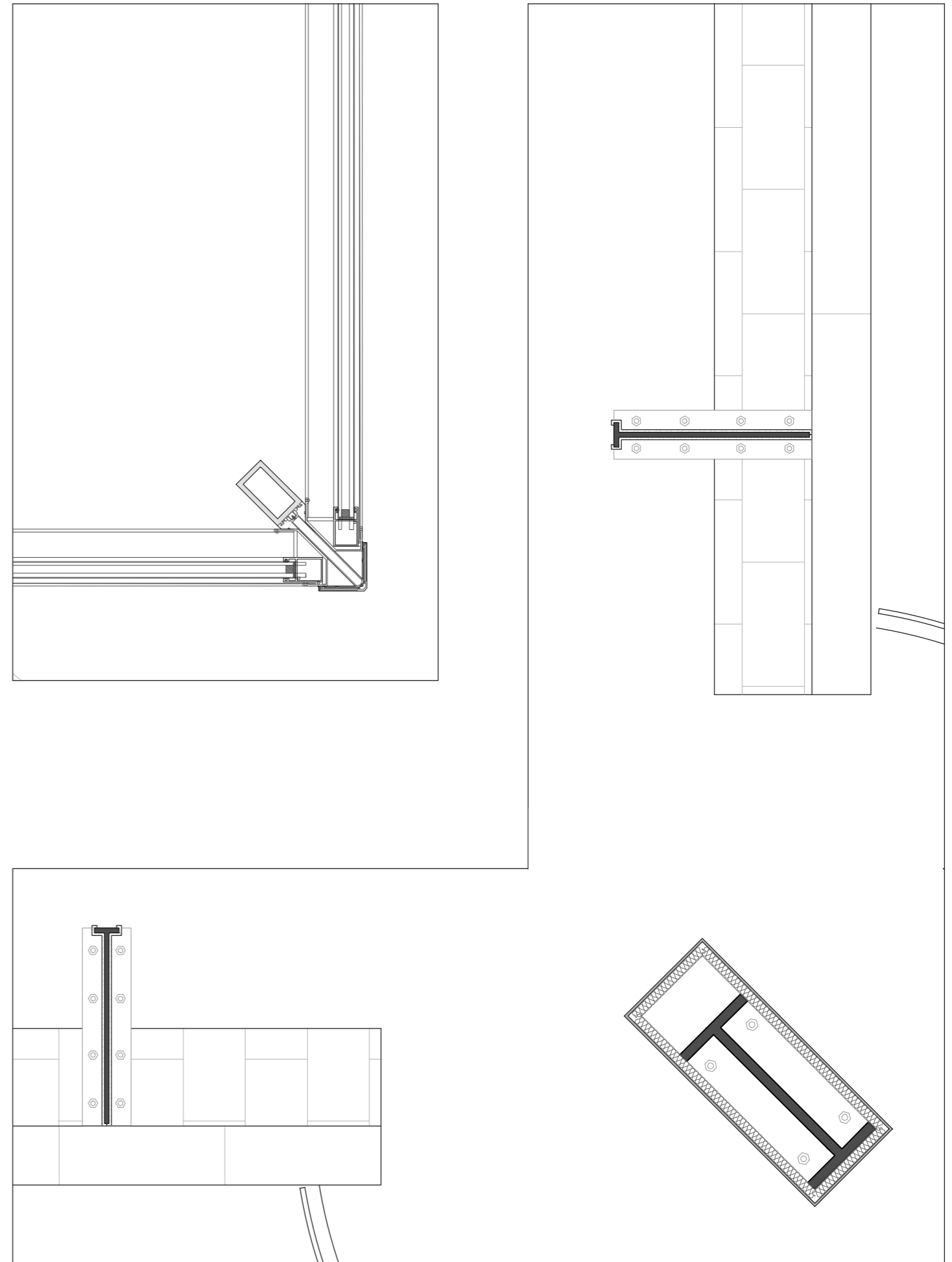
Details - Existing Plan, 1:10



Details - Extension Plan, 1:20



Details - Extension Plan, 1:10



Physical Model

