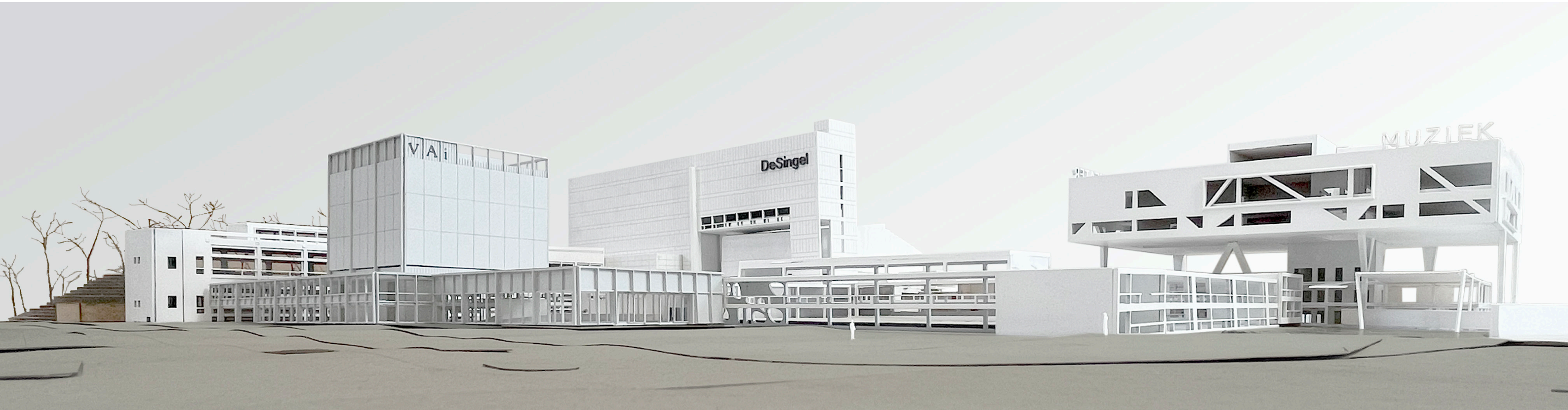


# COMPOSING THE ENSEMBLE

an archive for the Flanders Architecture Institute (VAi)  
at deSingel, Antwerp

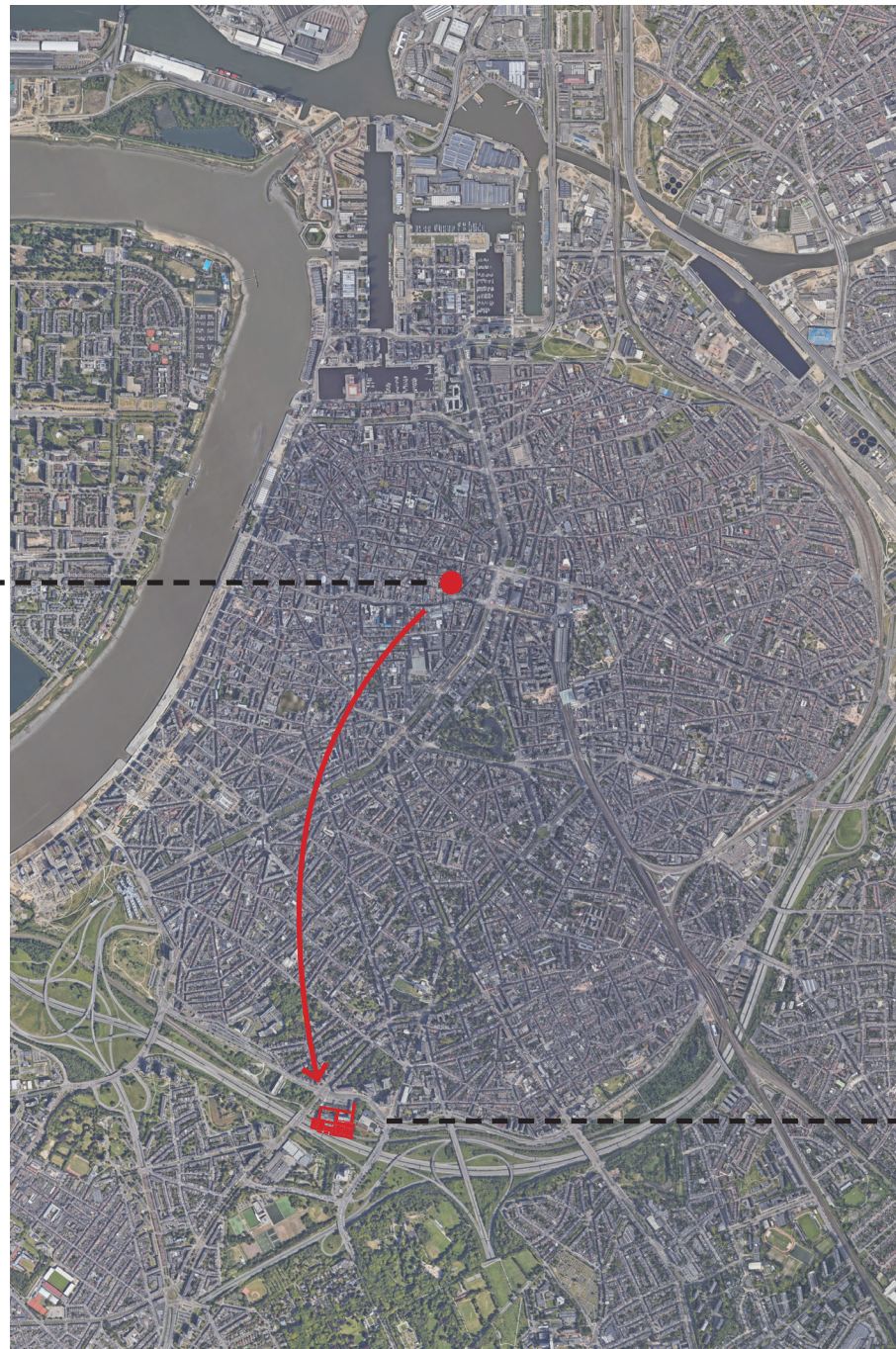




archive outgrowing its current building



public events disconnected from the archive



lack of visibility at deSingel





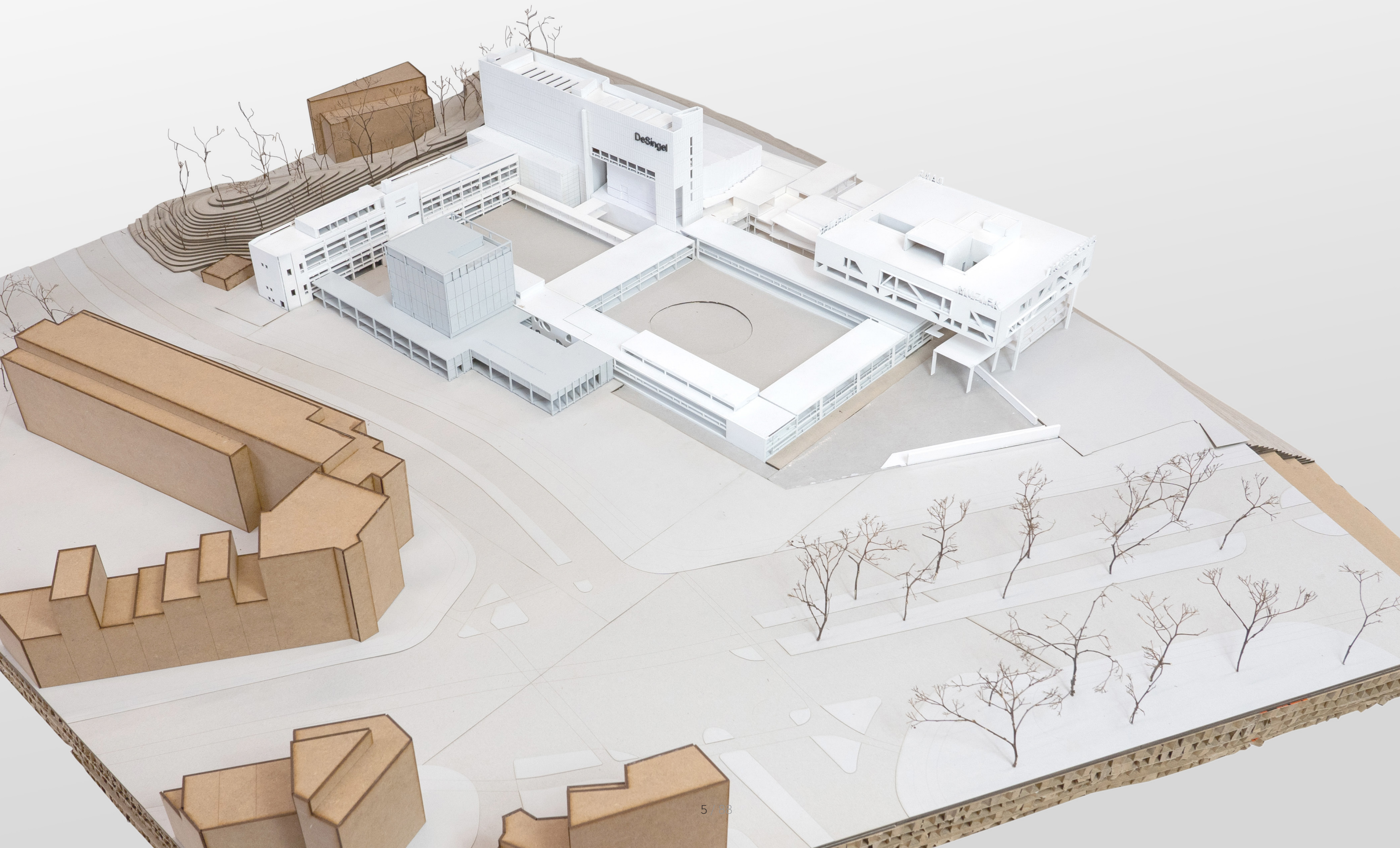








proposal of the VAI archive extension



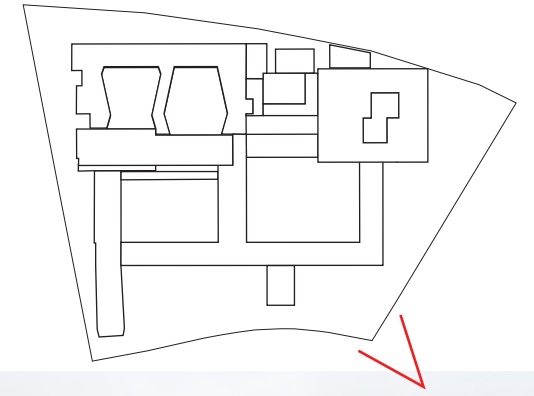


|                     | the archive | the site |
|---------------------|-------------|----------|
|                     | VAi         | deSingel |
| 1. A COUNTERBALANCE |             |          |
| 2. A DEPOT          |             |          |
| 3. A SEQUENCE       |             |          |
| 4. A 3D GRID        |             |          |



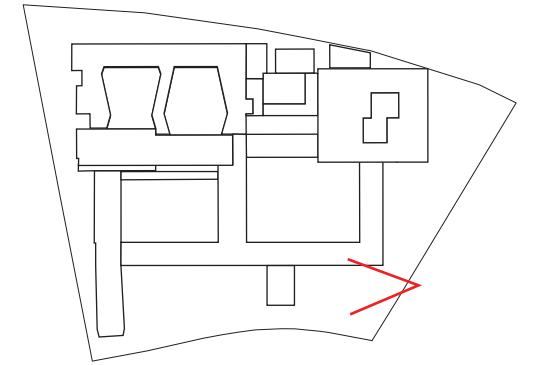
|                     | the archive         | the site                |
|---------------------|---------------------|-------------------------|
|                     | VAi                 | deSingel                |
| 1. A COUNTERBALANCE | a part of the whole | the ensemble of volumes |
| 2. A DEPOT          |                     |                         |
| 3. A SEQUENCE       |                     |                         |
| 4. A 3D GRID        |                     |                         |





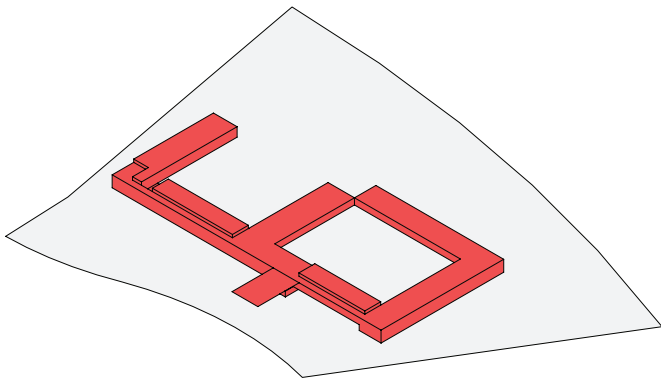


an elephant path at the entrance

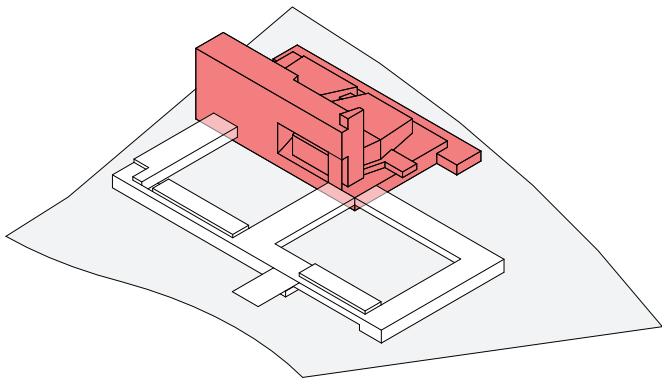




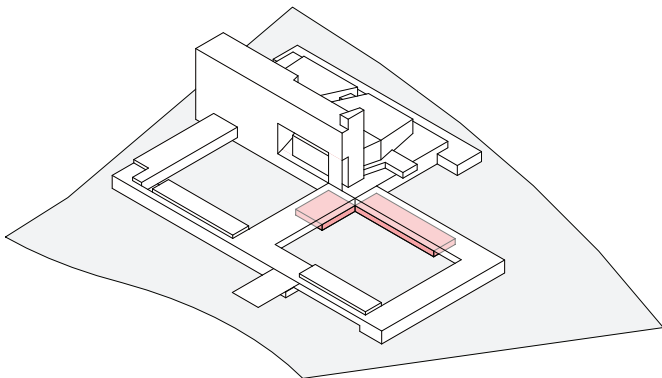
a change in orientation



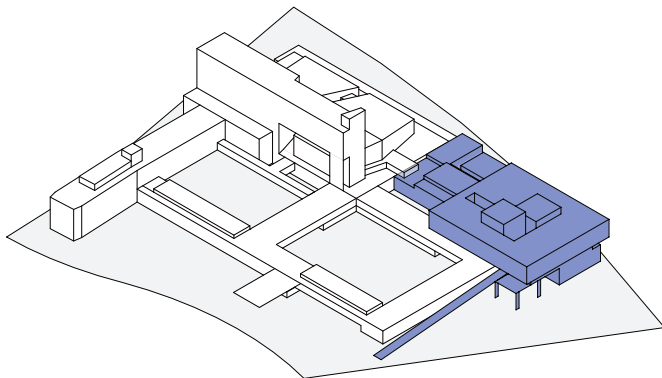
1963-1968  
Stynen



1973-1980  
Stynen + de Meyer



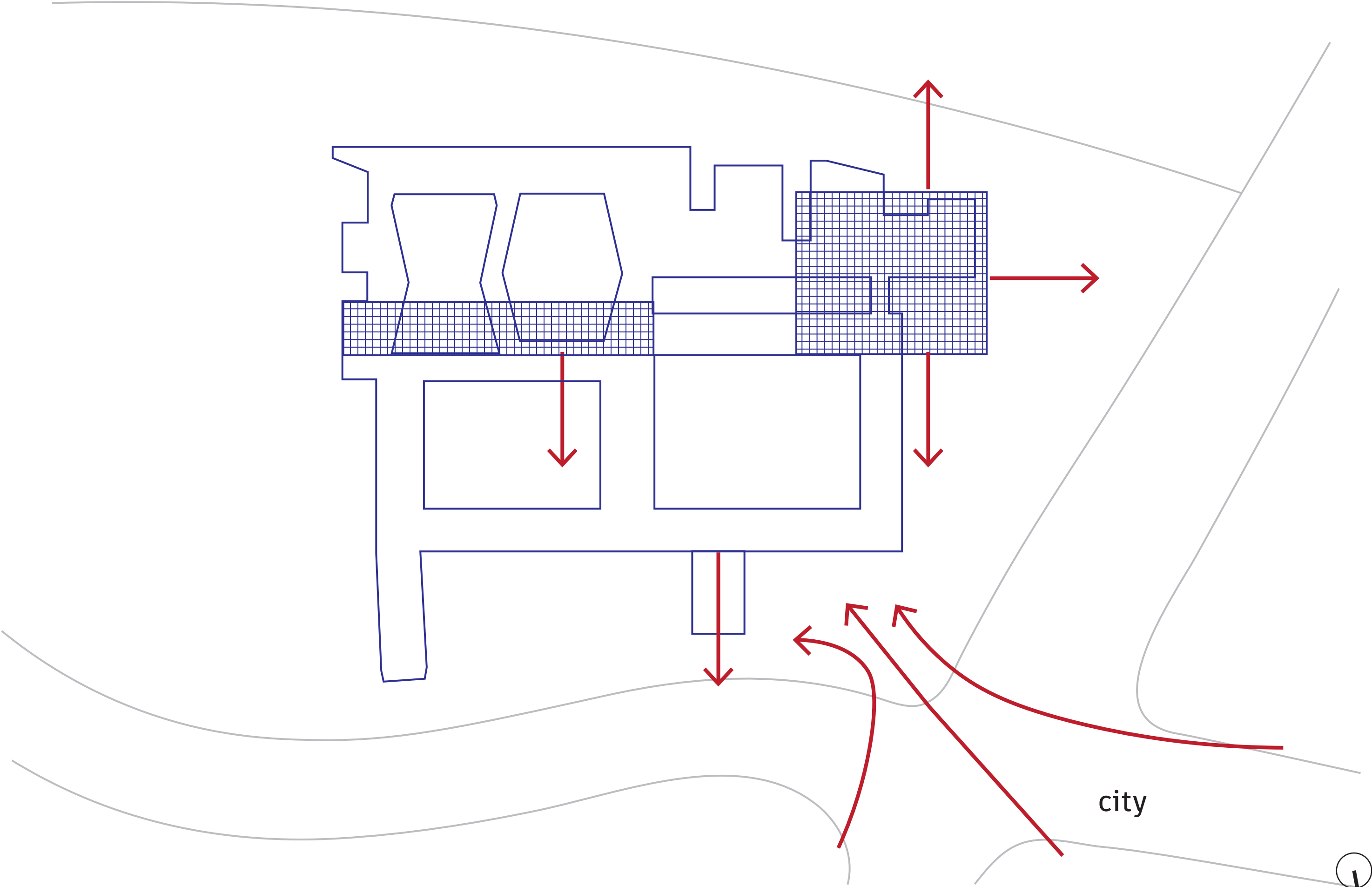
1985-1987  
de Meyer



2004-2010  
Beel

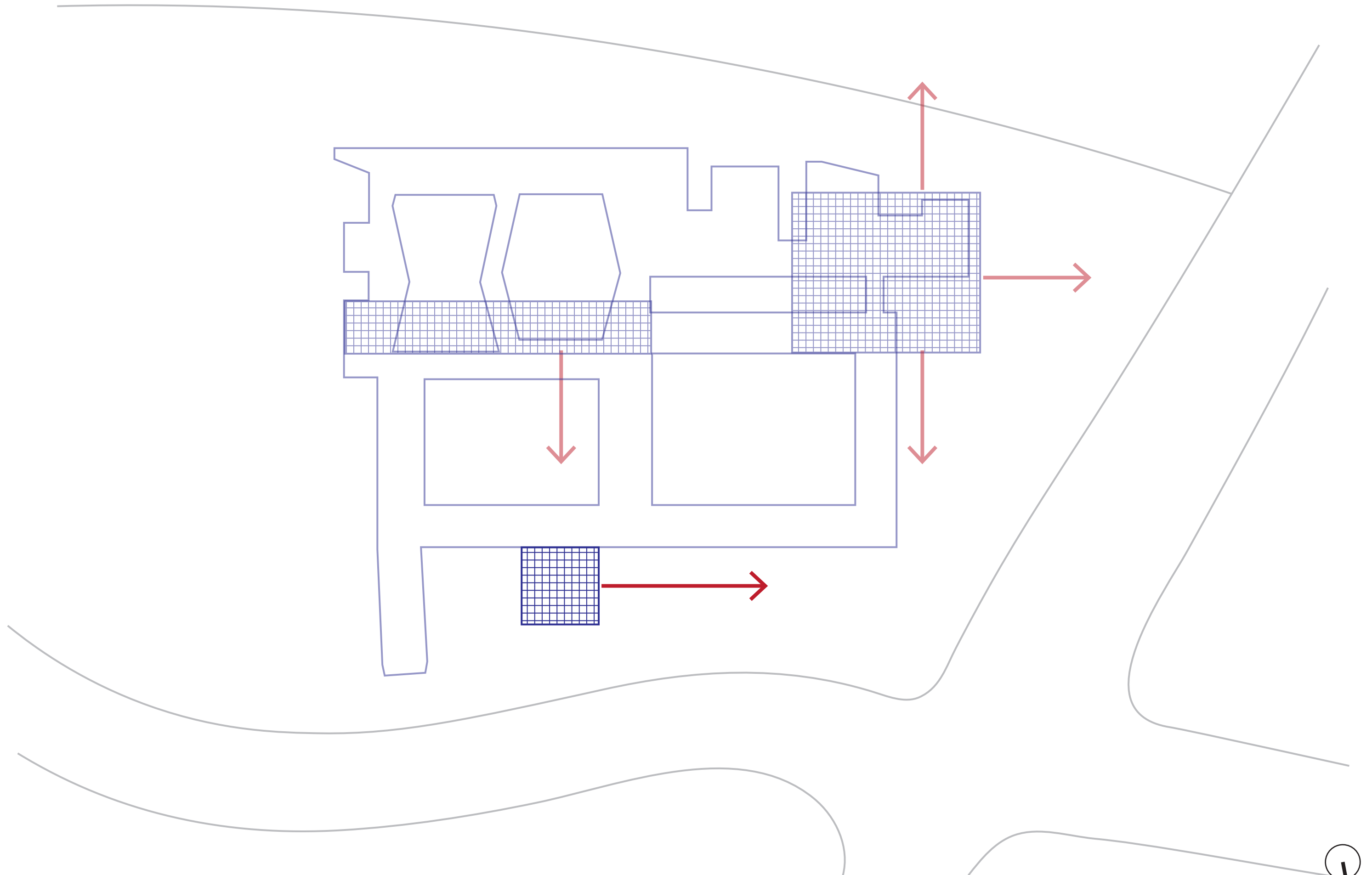


the existing orientations



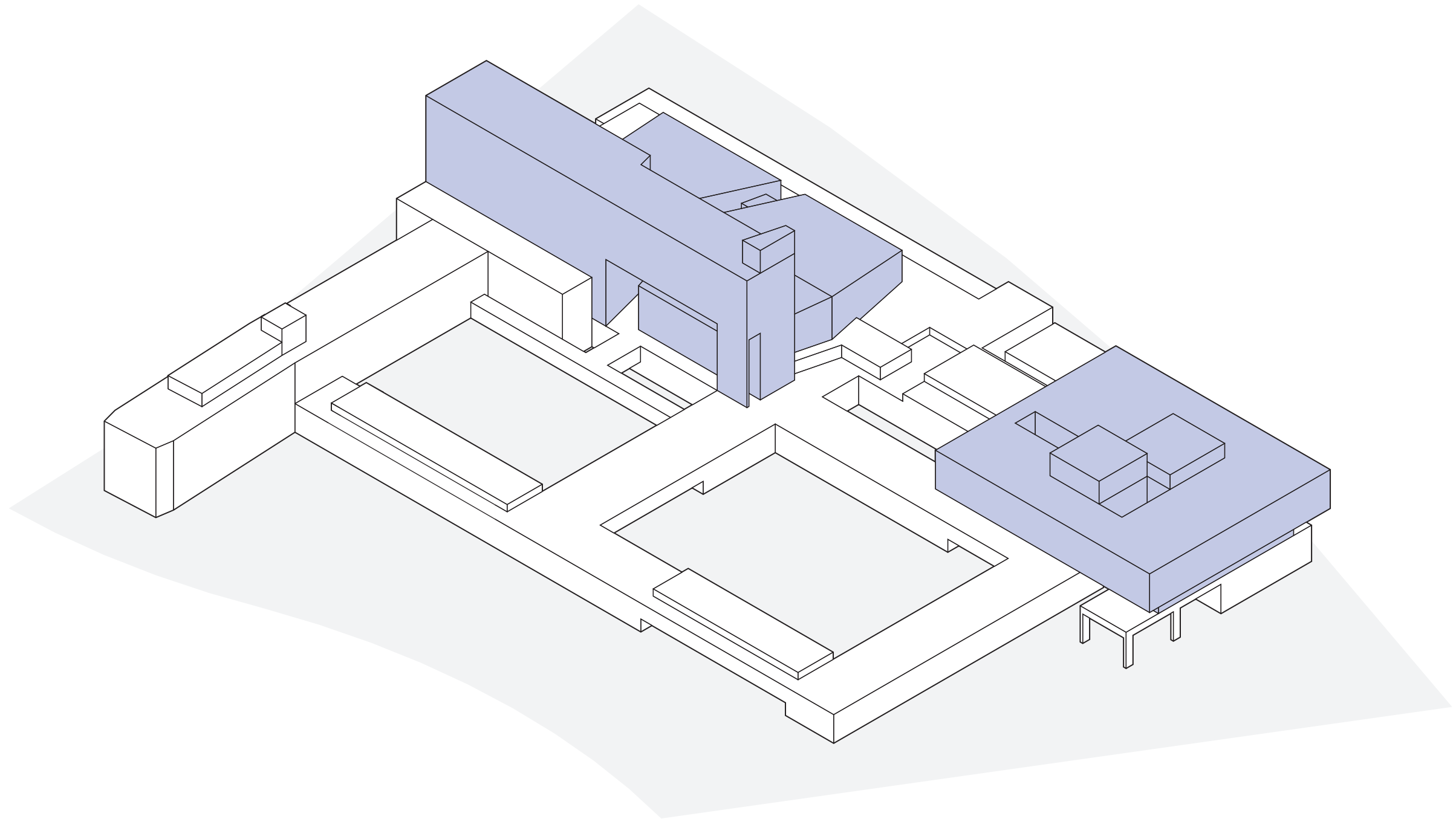


# balancing the orientation



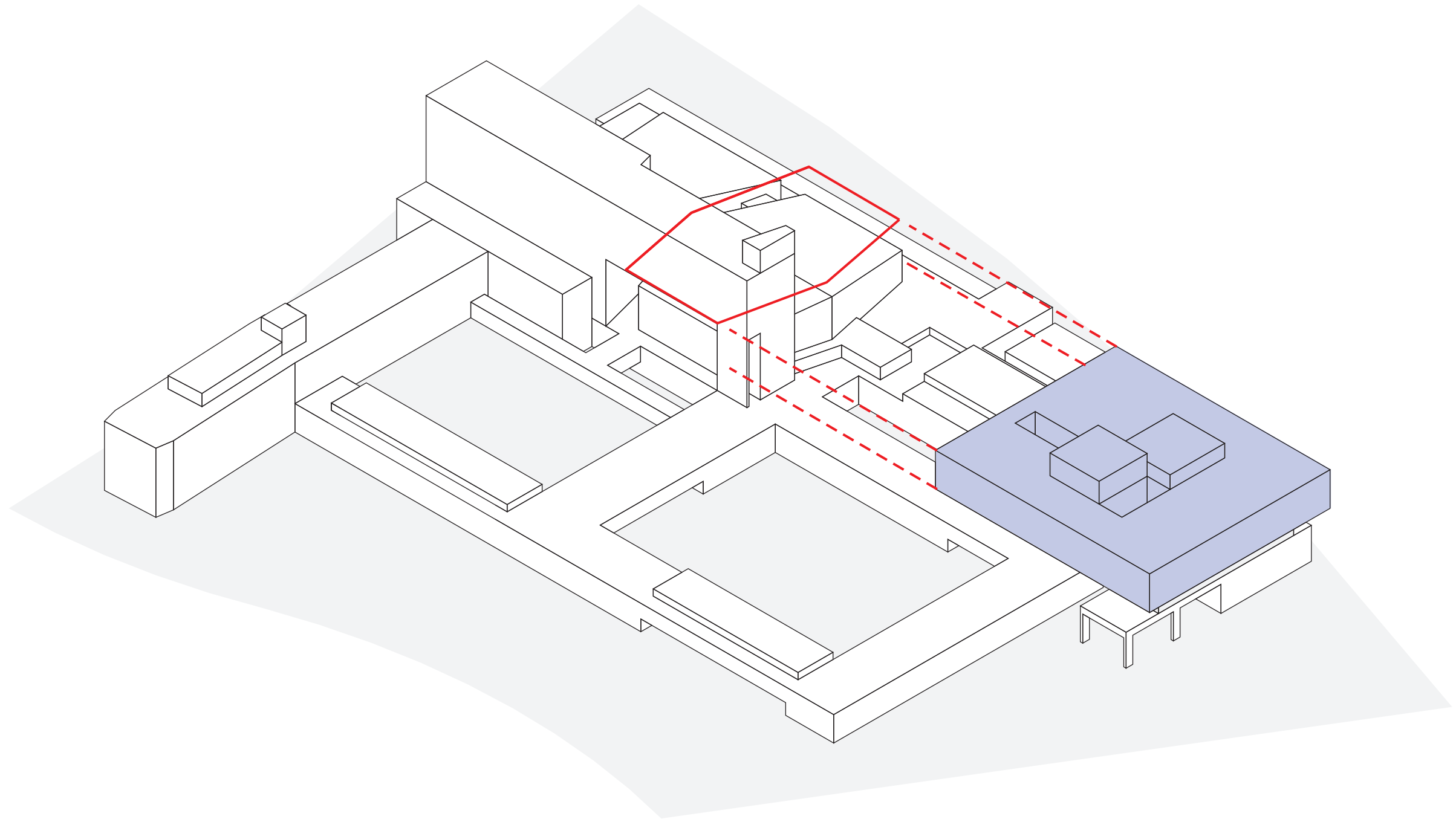


large volumes on a base



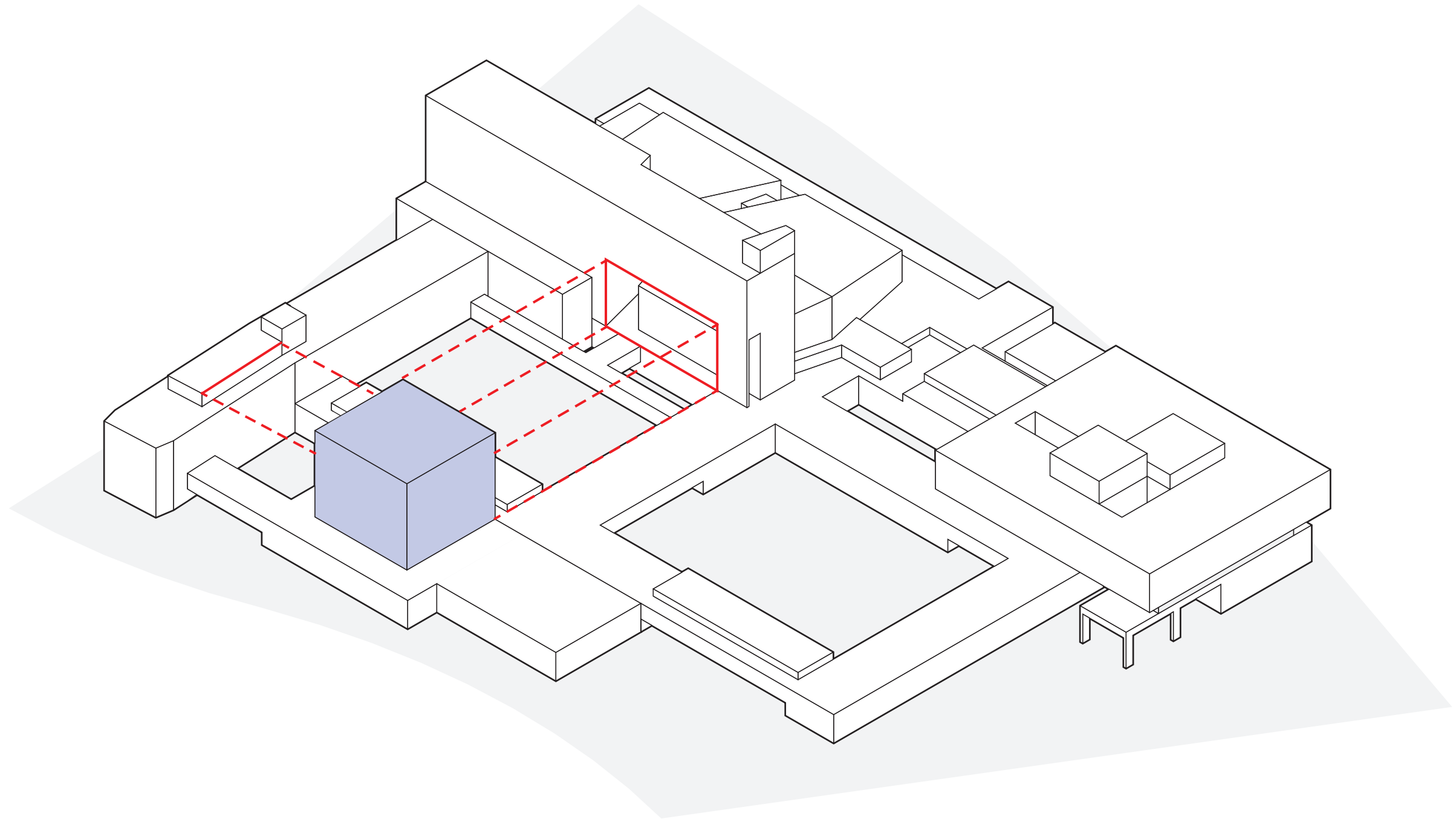


## geometric relationships



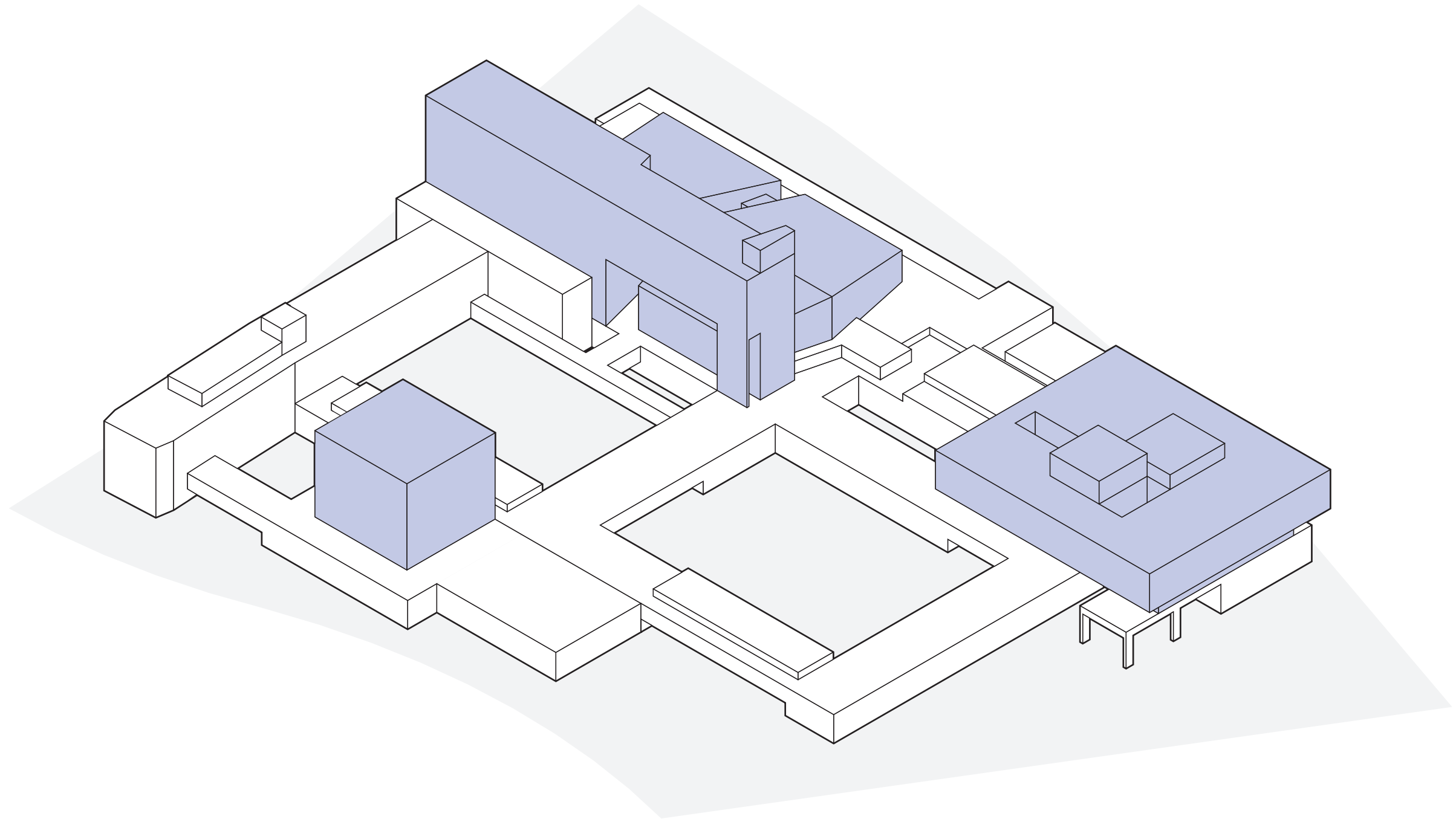


## geometric relationships





large volumes on a base



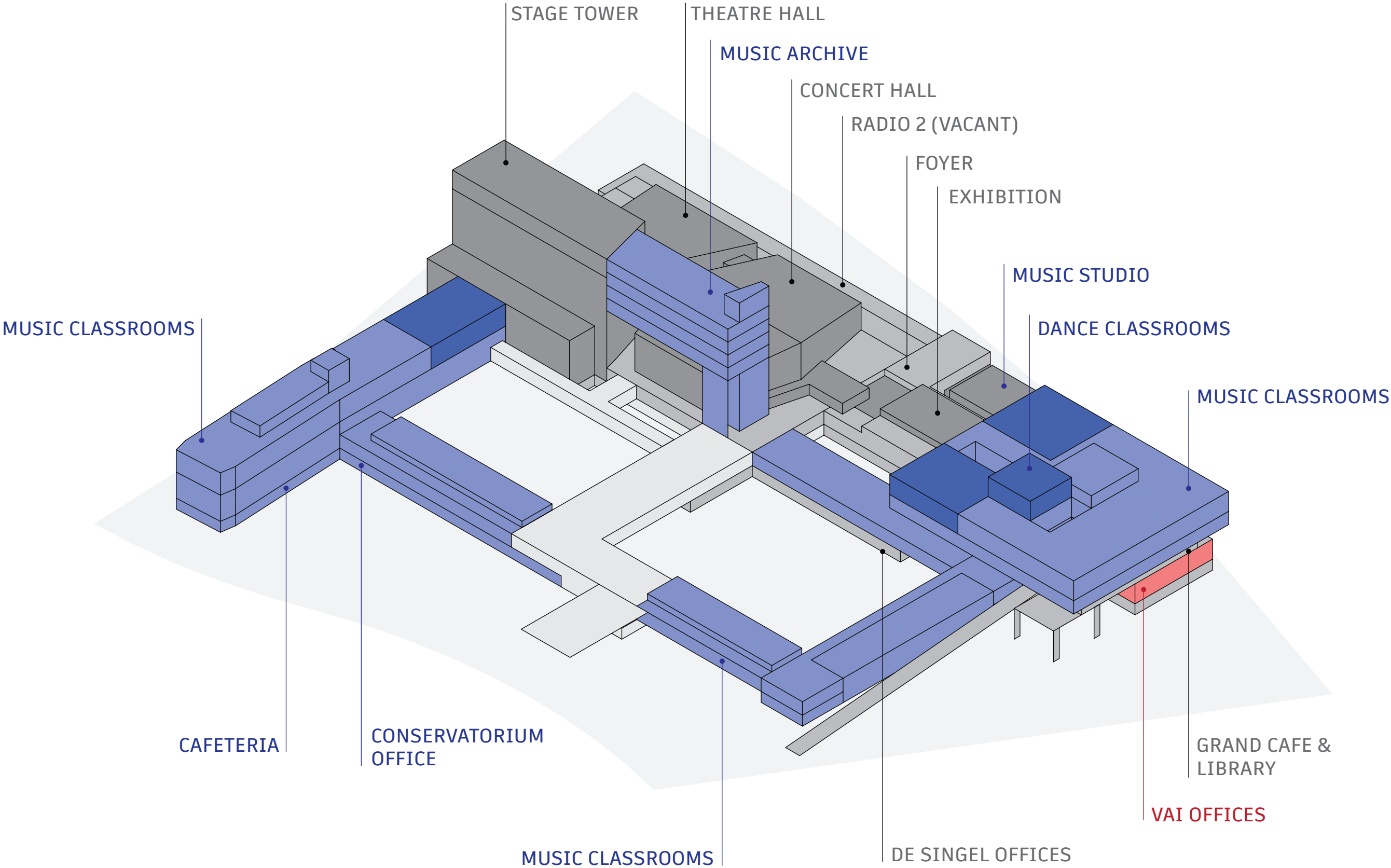


a counterweight

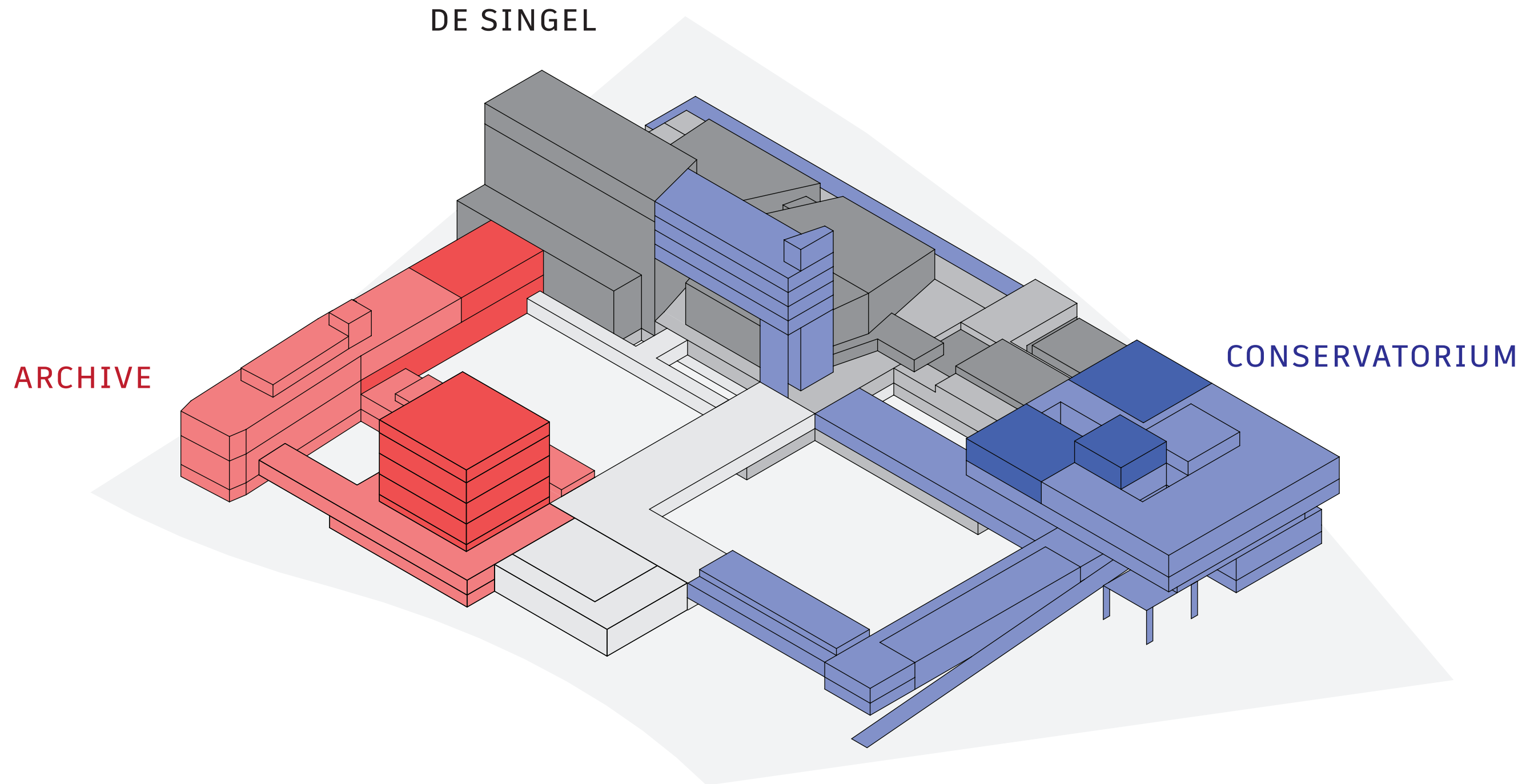




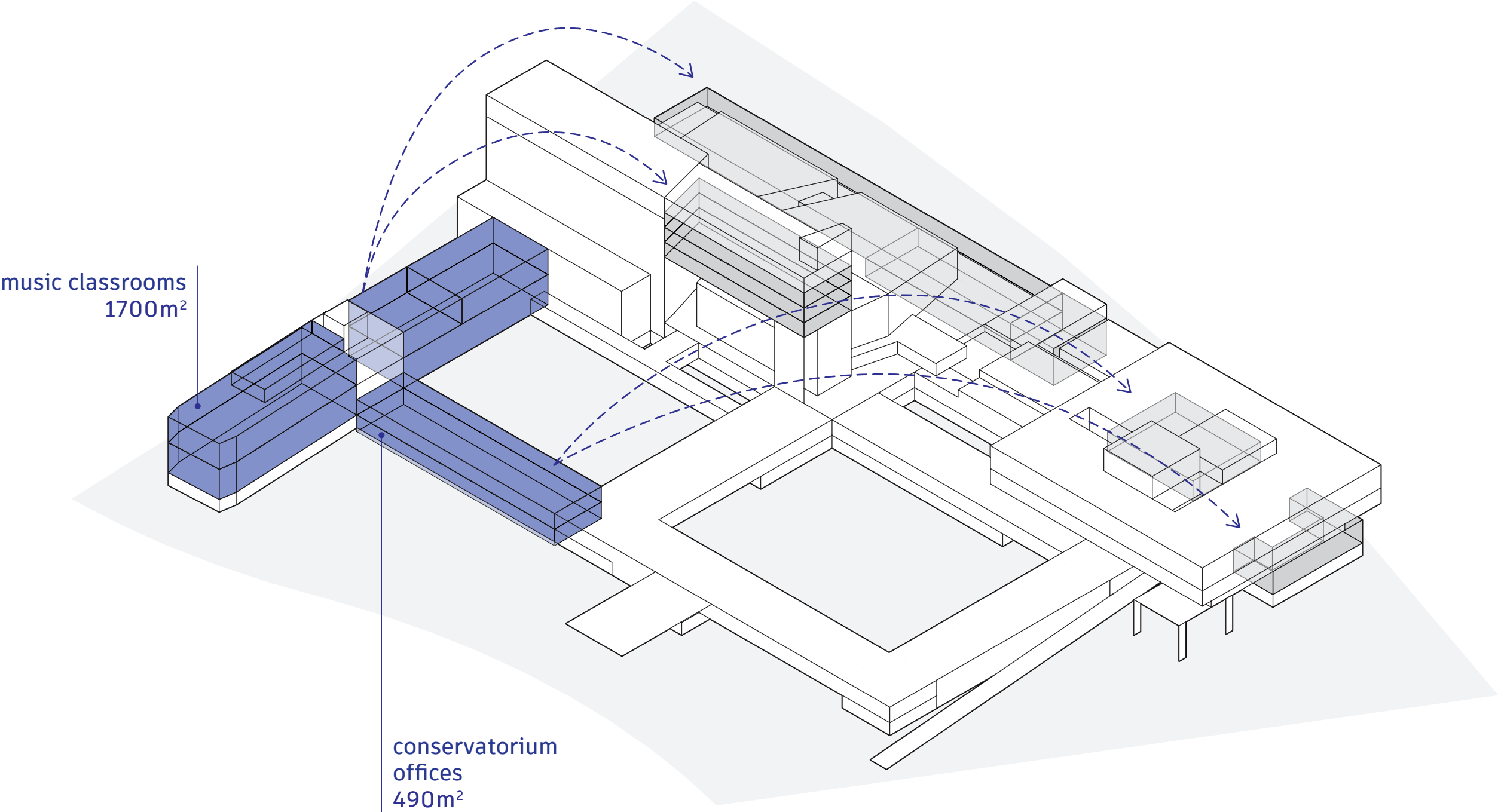
program analysis





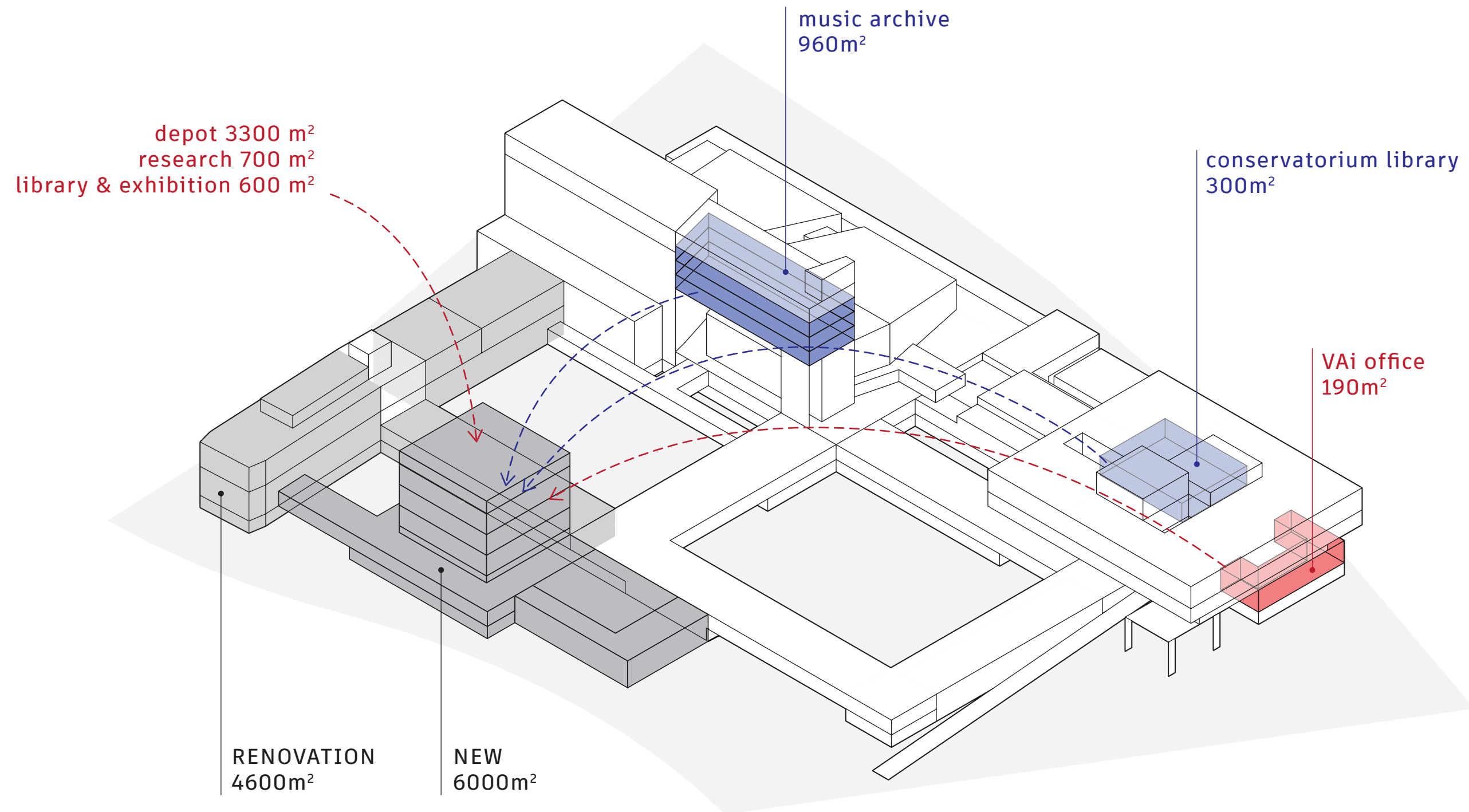








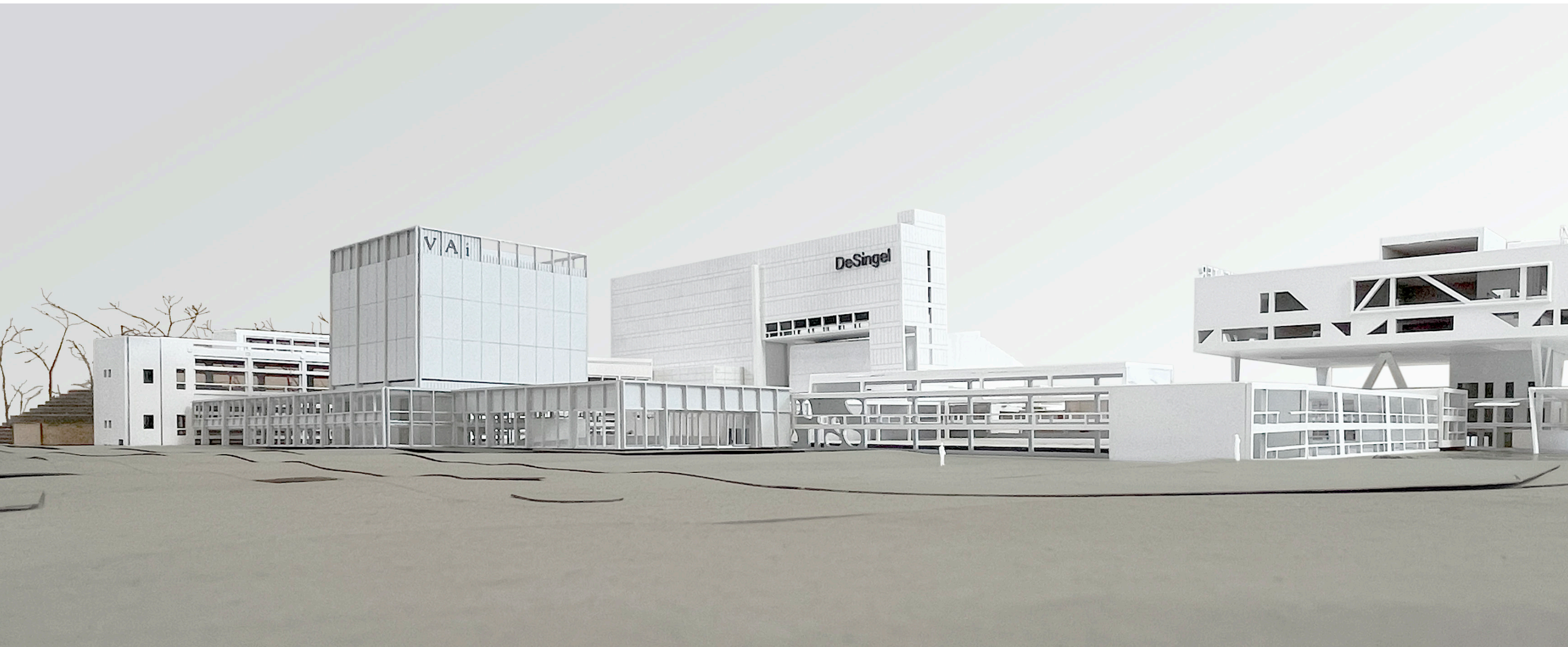
## reorganization + new program













|                     | the archive         | the site                |
|---------------------|---------------------|-------------------------|
|                     | VAi                 | deSingel                |
| 1. A COUNTERBALANCE | a part of the whole | the ensemble of volumes |
| 2. A DEPOT          | a condensed core    | enveloped rooms         |
| 3. A SEQUENCE       |                     |                         |
| 4. A 3D GRID        |                     |                         |



an 1:15 model of a room for Christian Kieckens (P1)

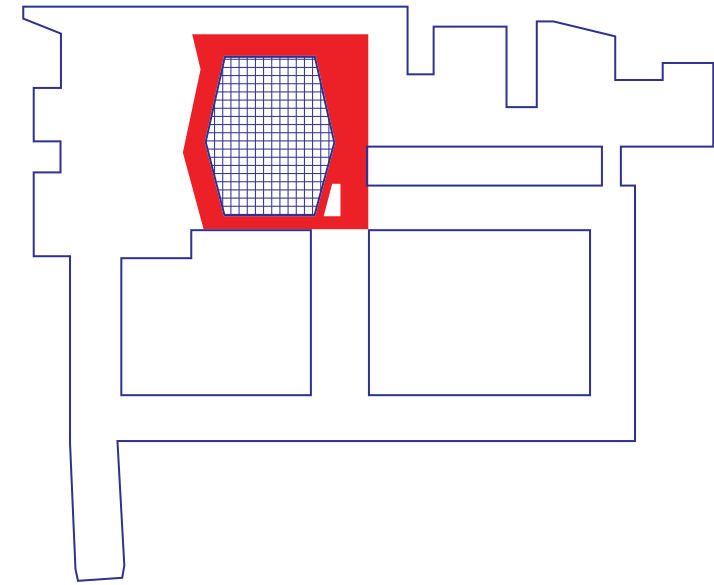
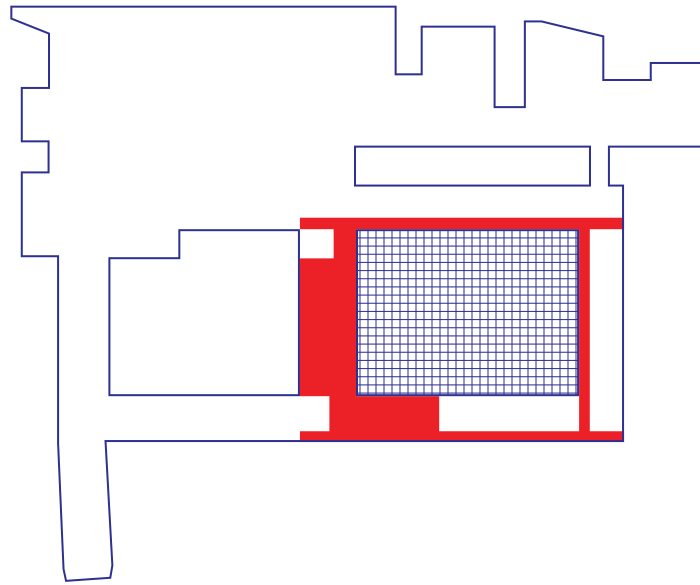




plan of a room for Christian Kieckens (P1)







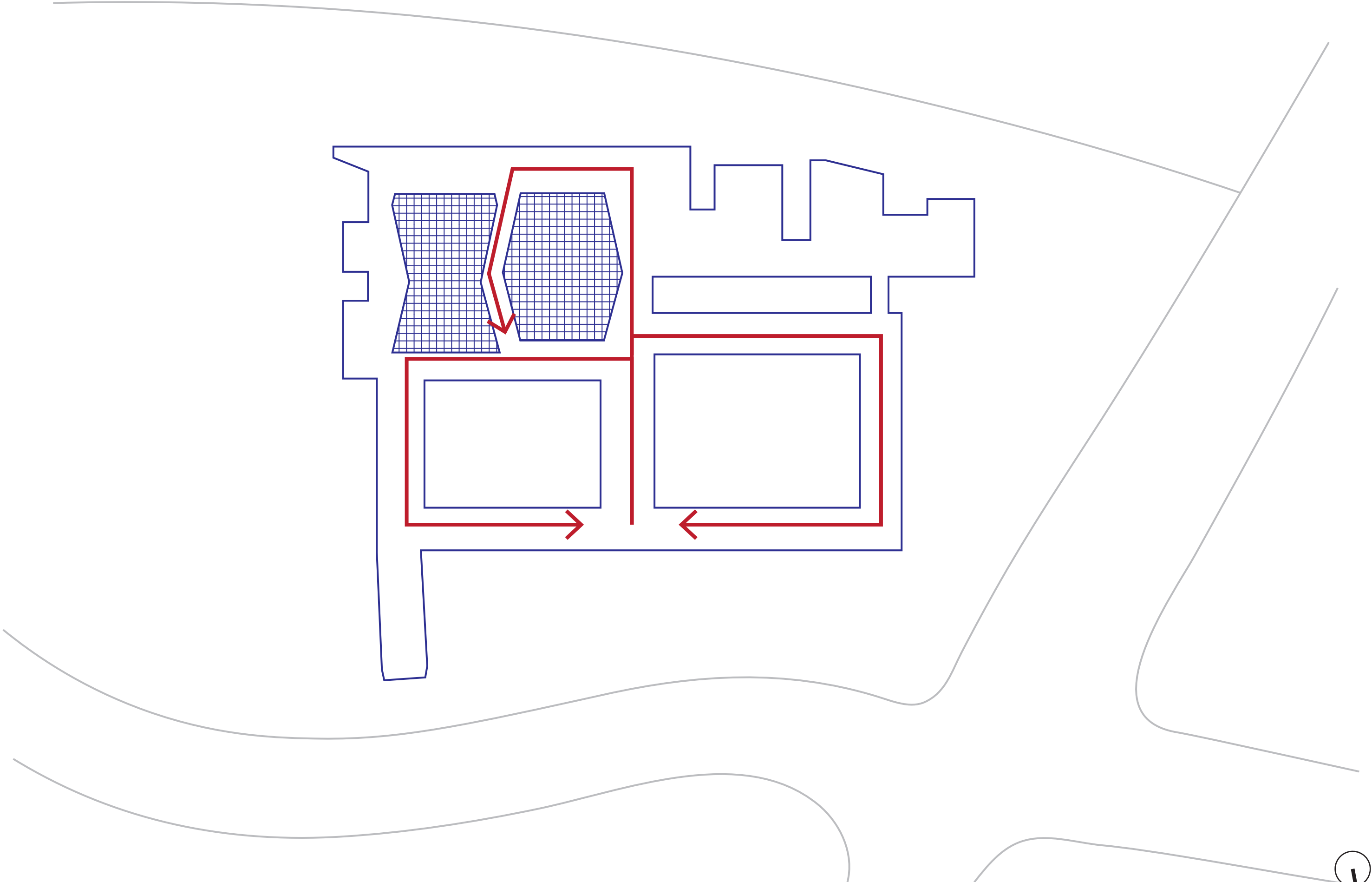


the front corridor





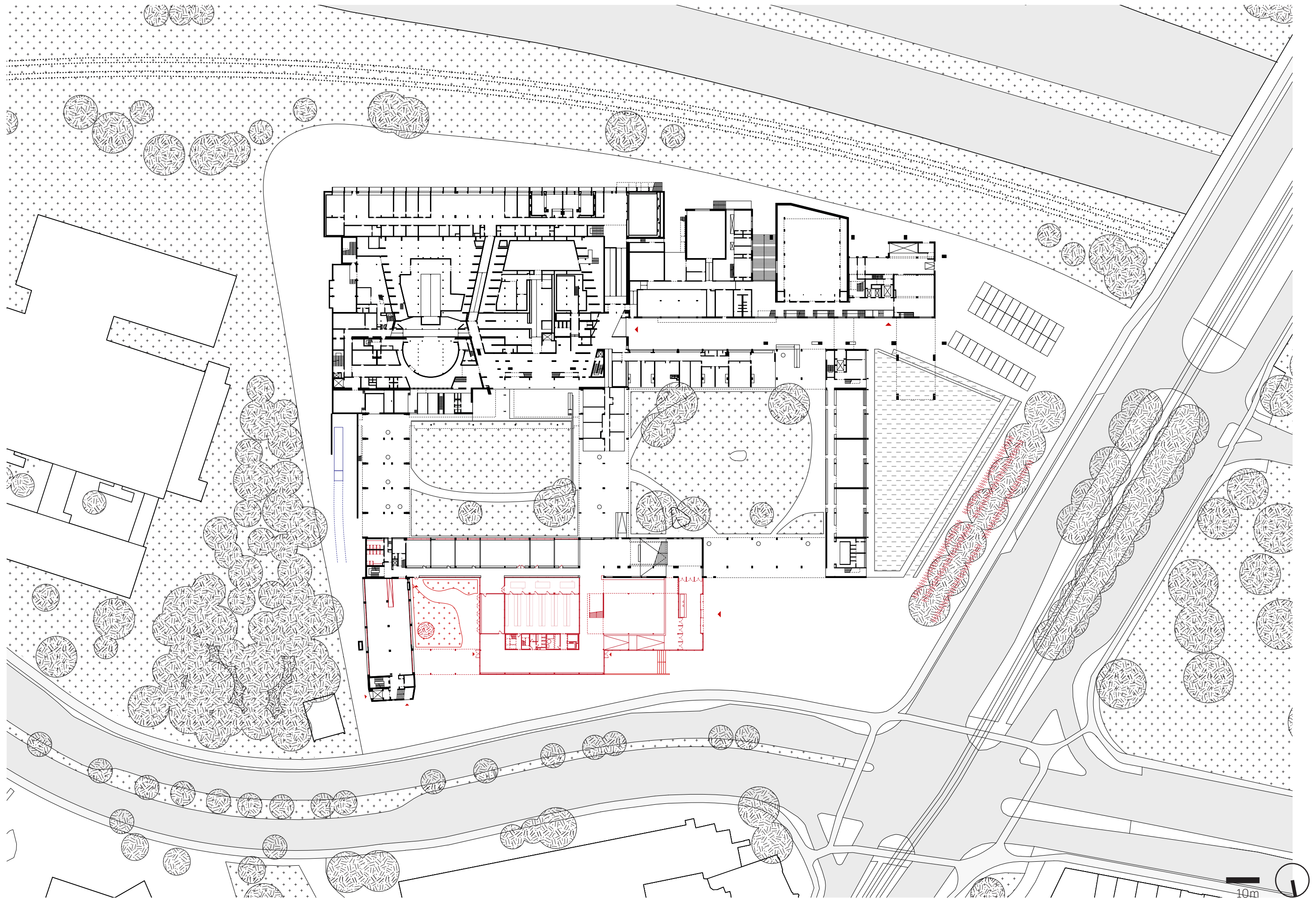
the existing enveloped rooms





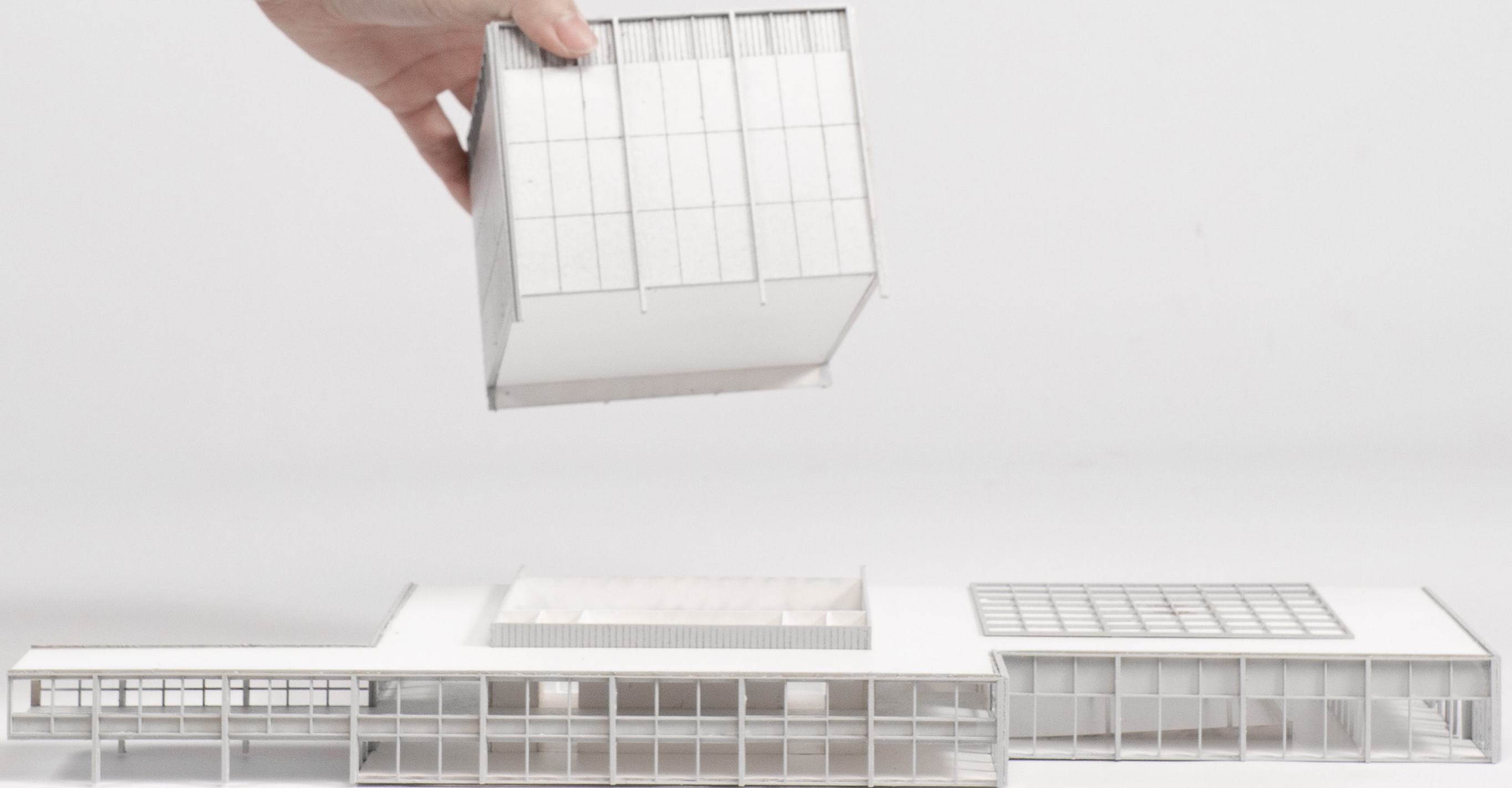
## A schematic diagram of a building layout. The building is outlined in blue. It features several rooms: a large central hall, a smaller room to the left, and a room to the right. A red path is shown, starting from the bottom left, moving right, then up, then left, and finally down. The path is marked with red arrows. There are three blue grid areas: one in the top left, one in the top right, and one in the bottom left. The building is situated on a light gray background with some curved lines representing a road or path. A north arrow is located in the bottom right corner.





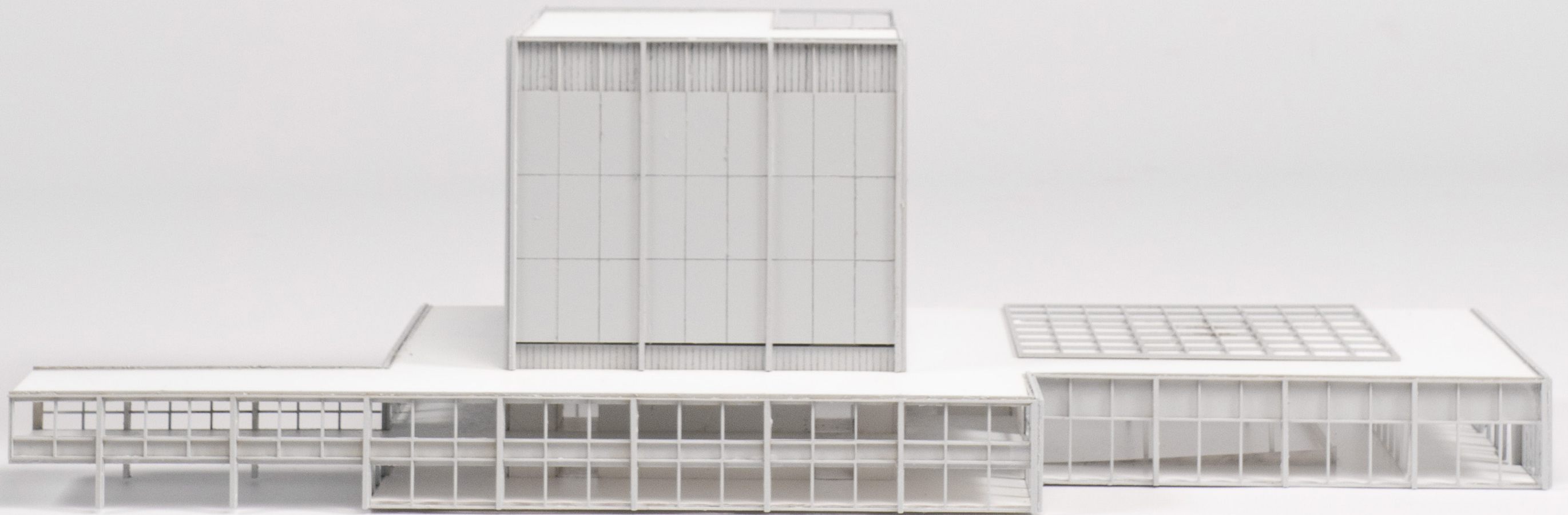


the depot box

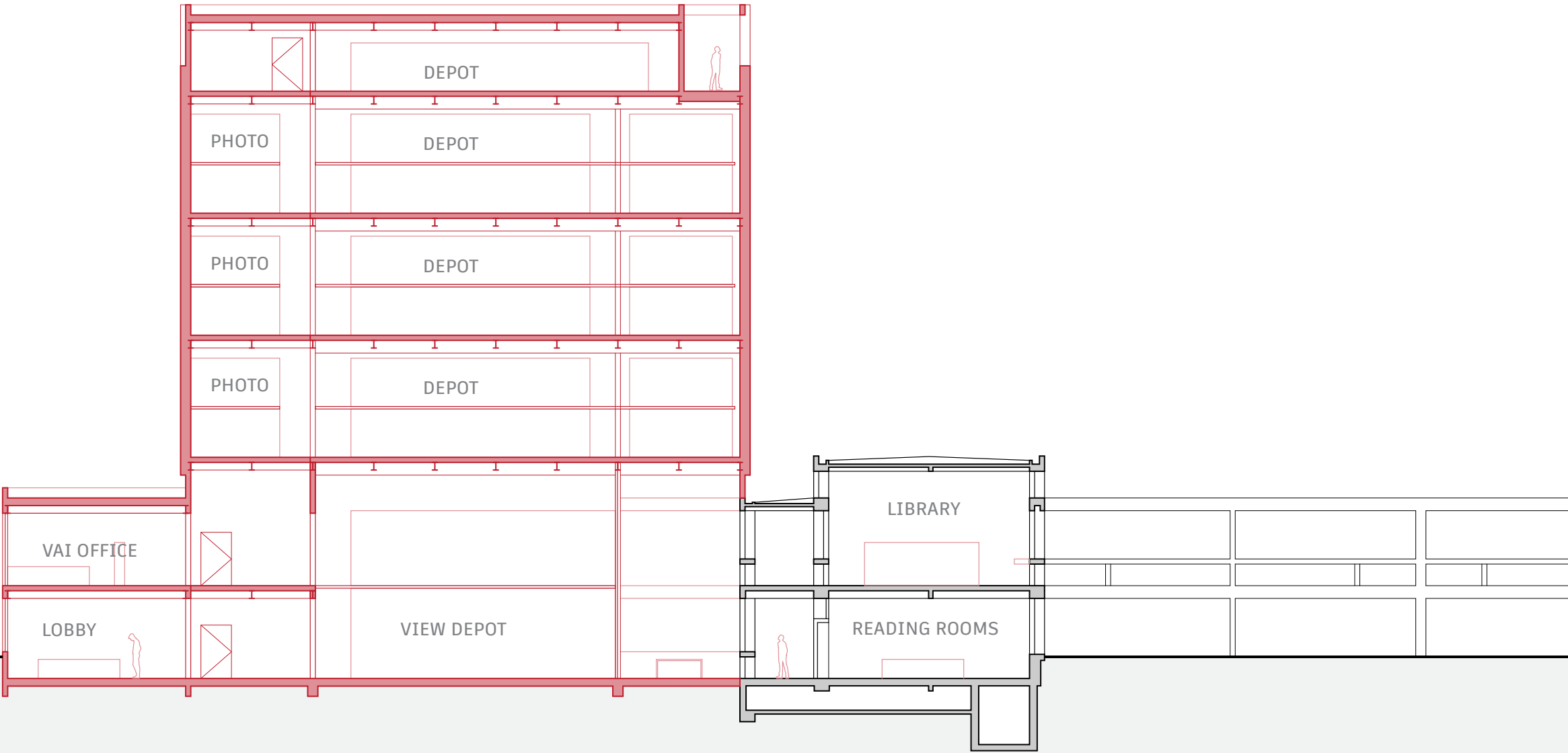
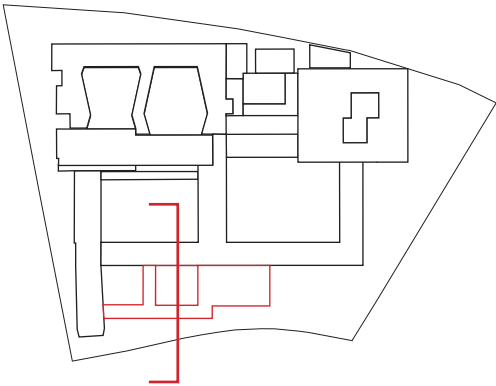




# the depot box

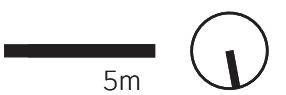
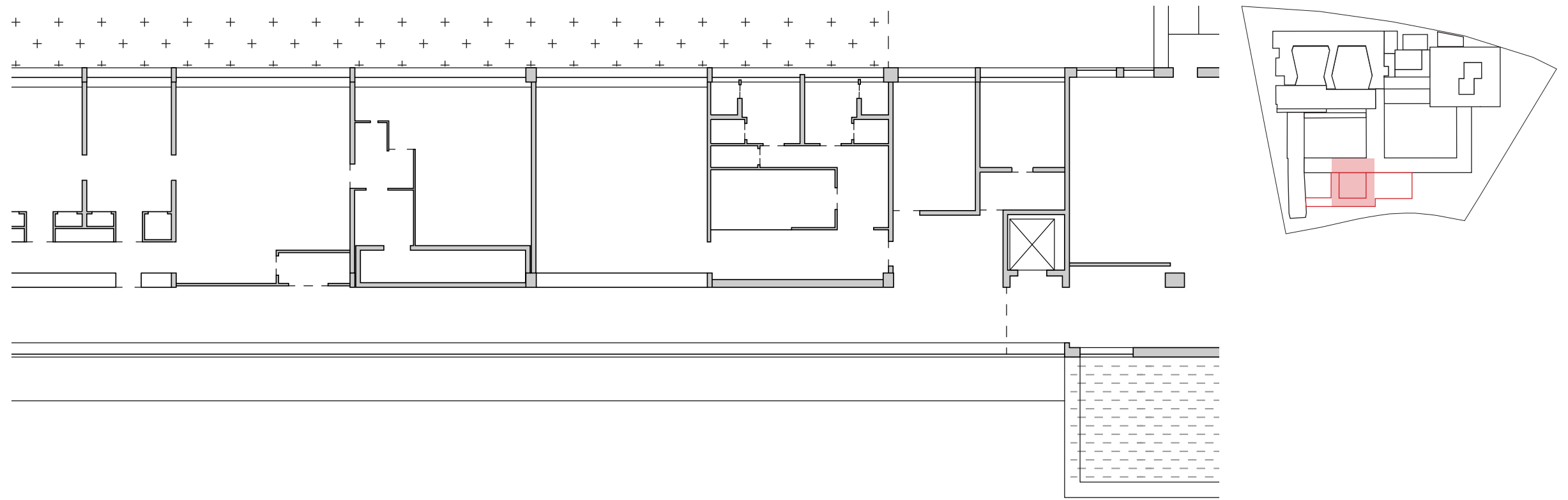






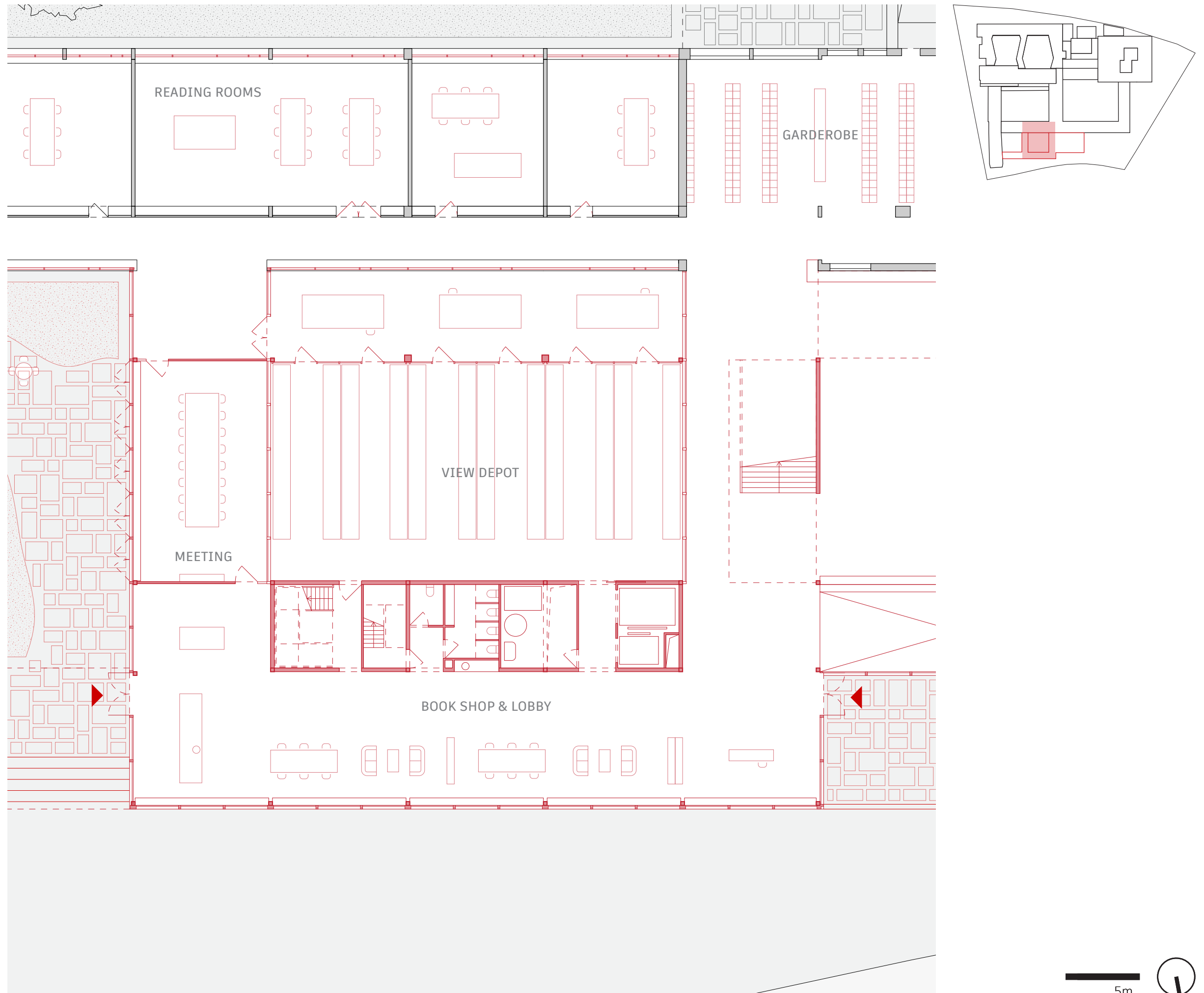


ground floor existing 1:200



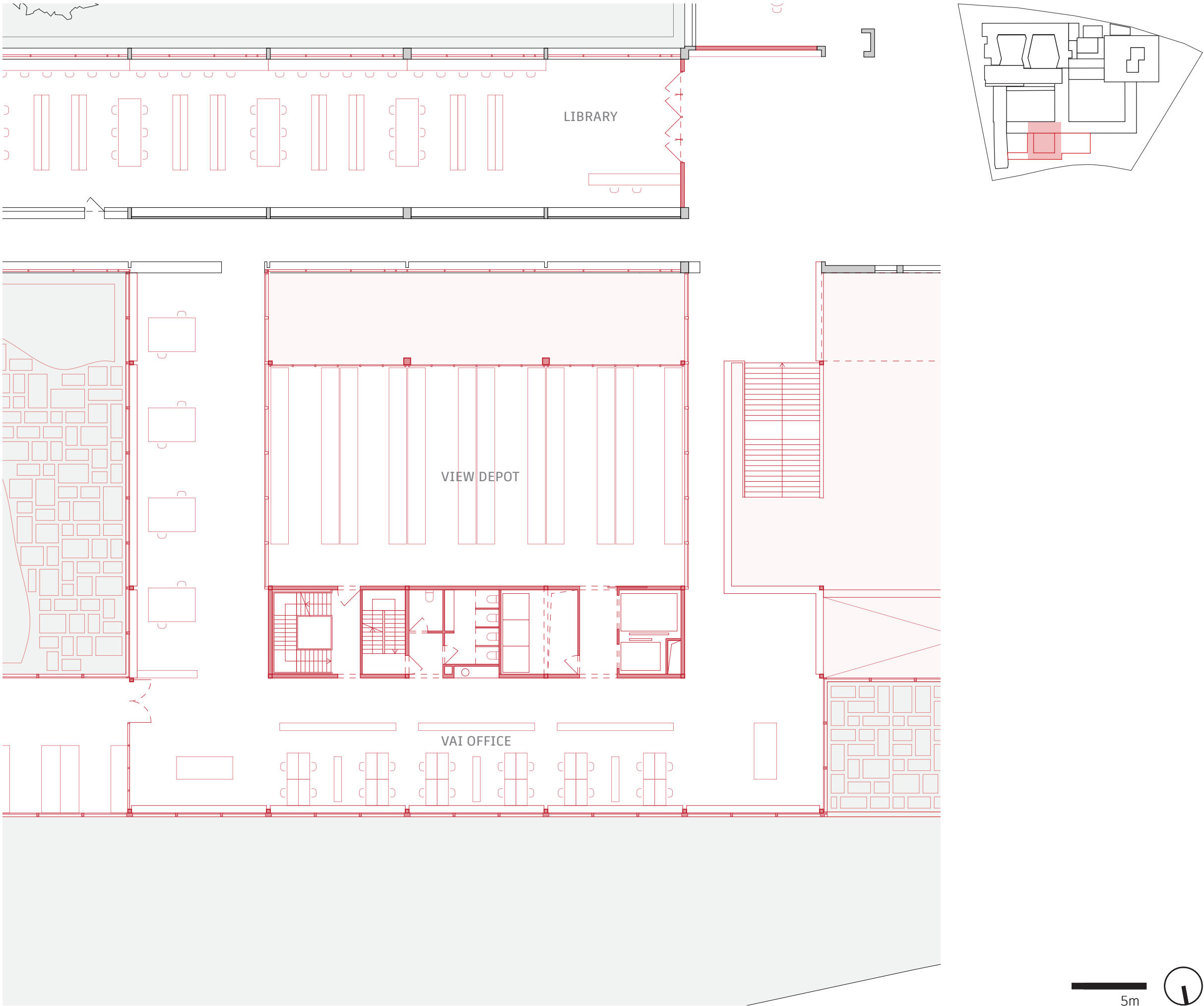


ground floor 1:200



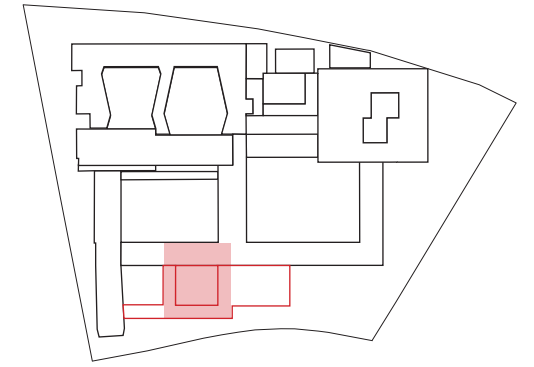
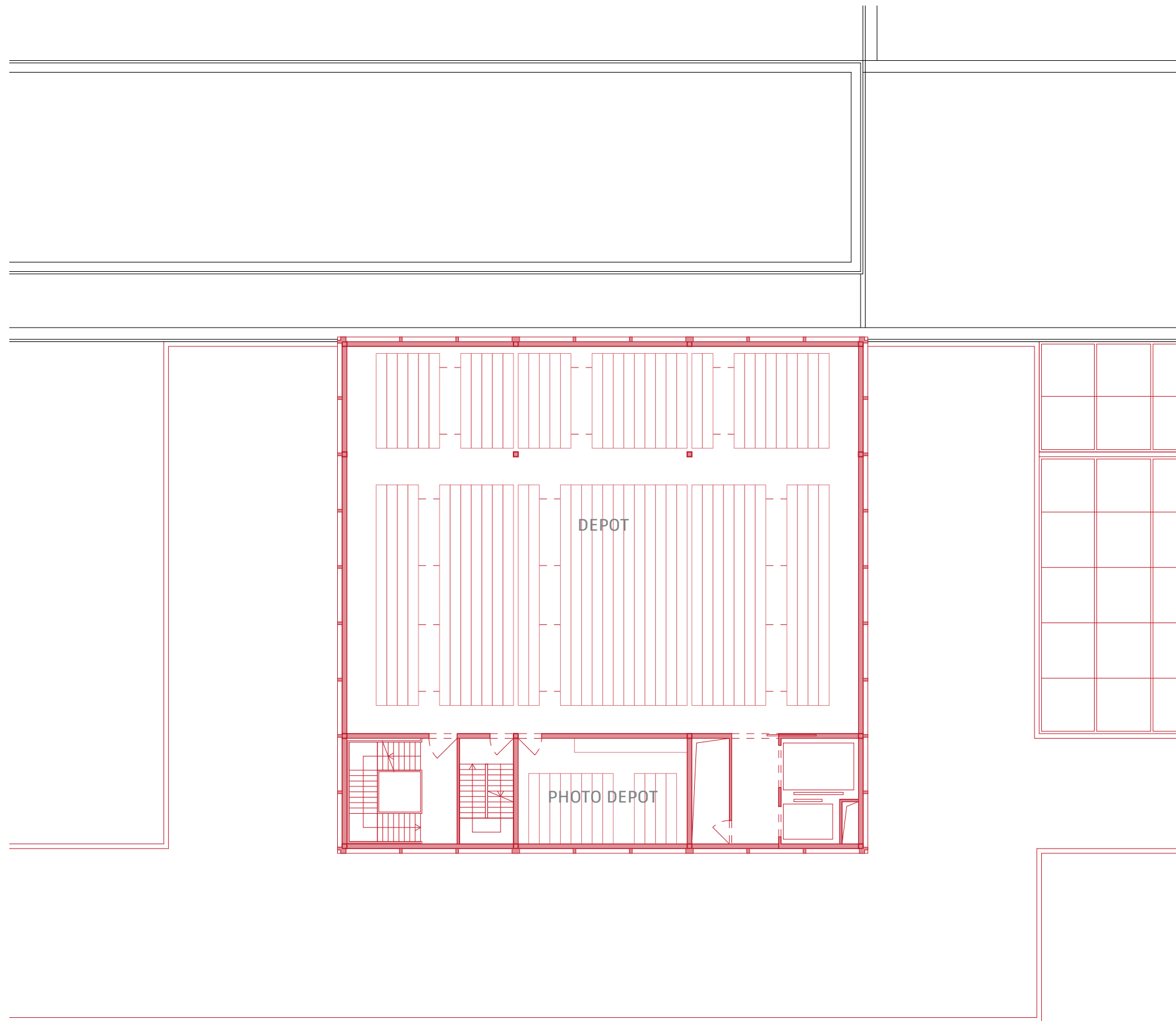


first floor 1:200



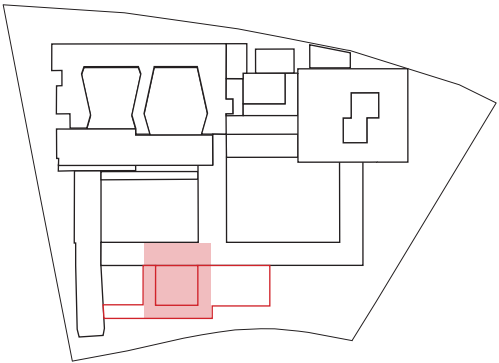
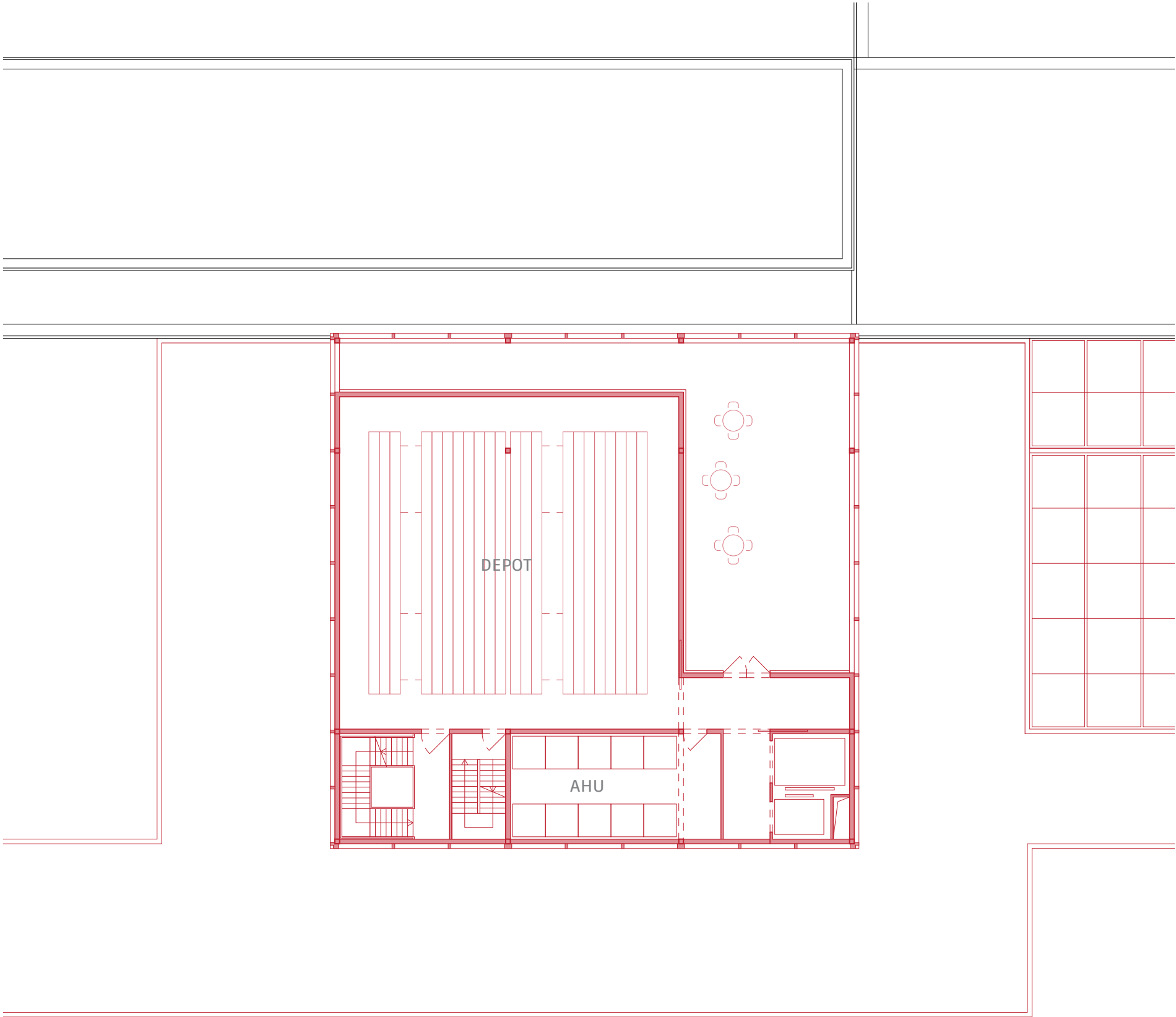


second floor 1:200



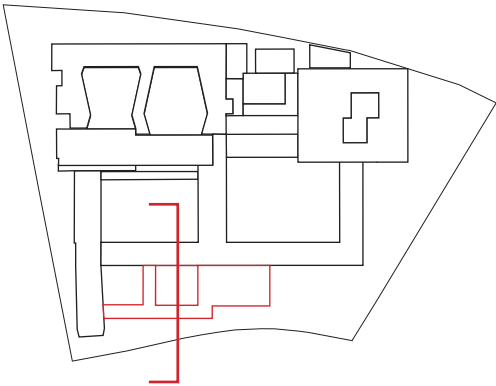


top floor 1:200

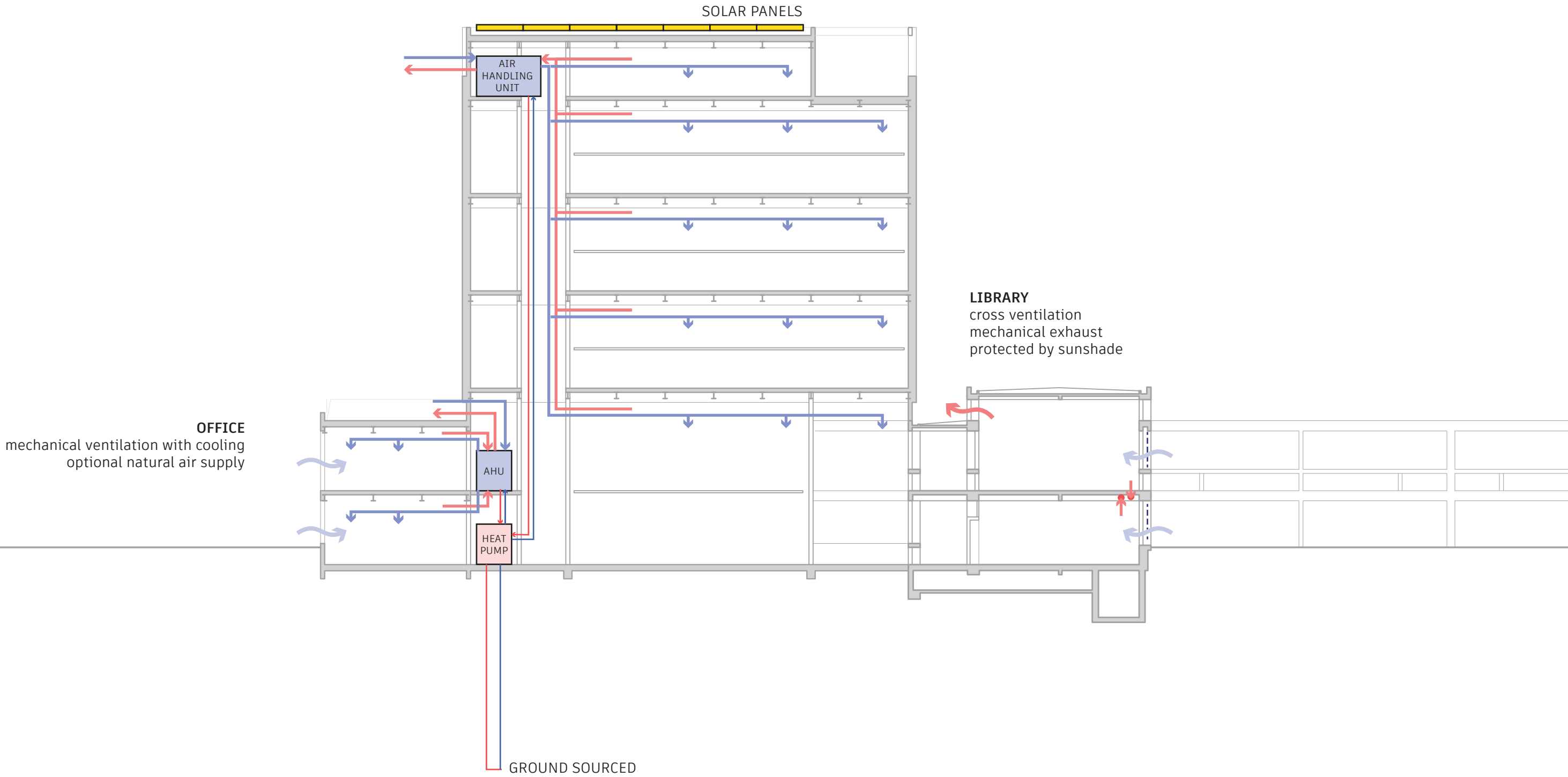




climate principle - summer

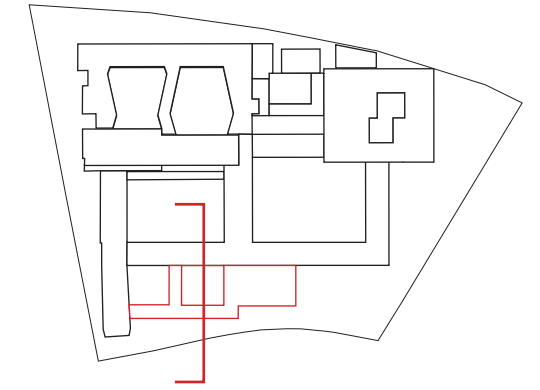


**DEPOT**  
mechanical ventilation with dehydration & cooling

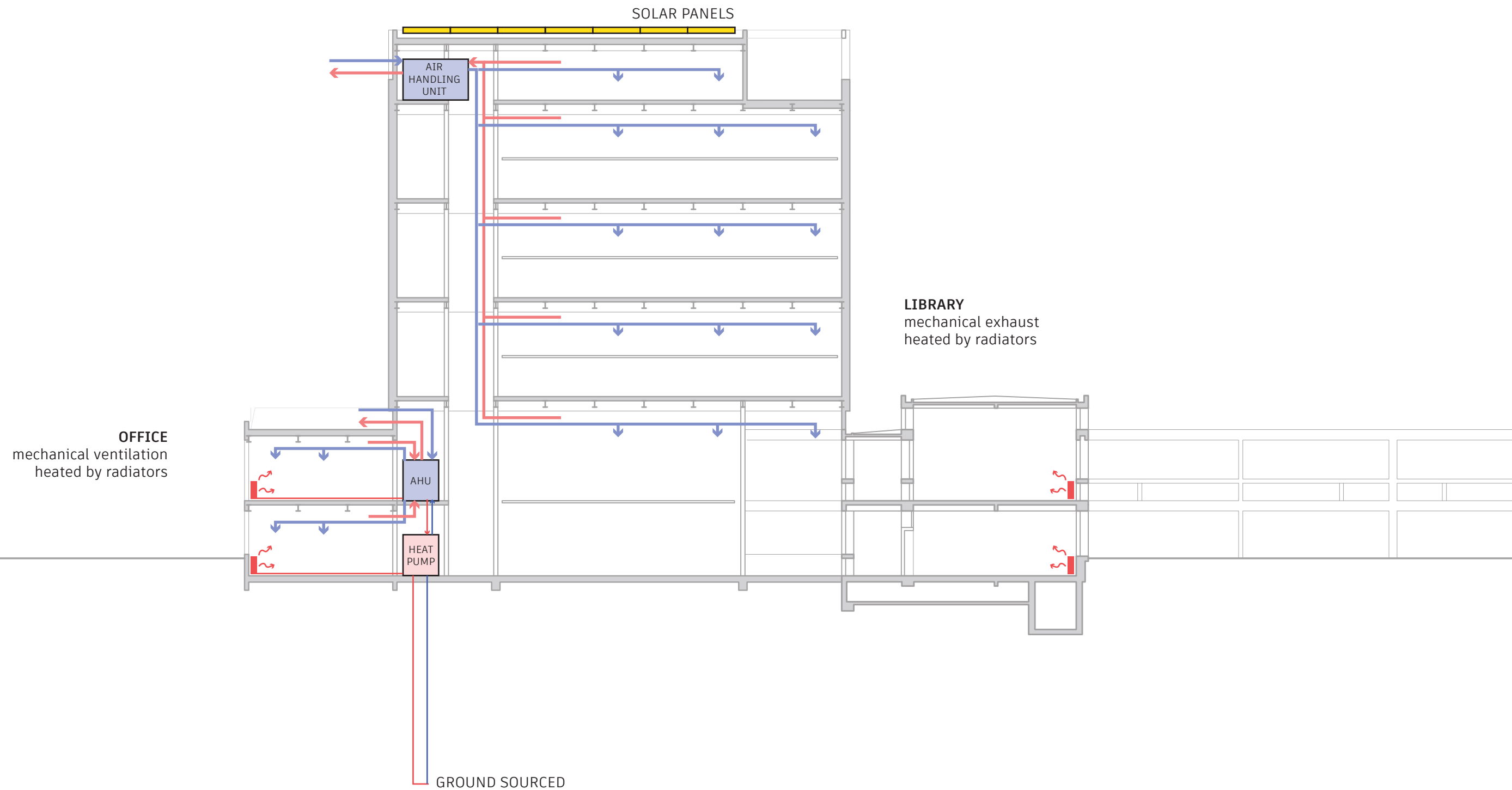




# climate principle - winter

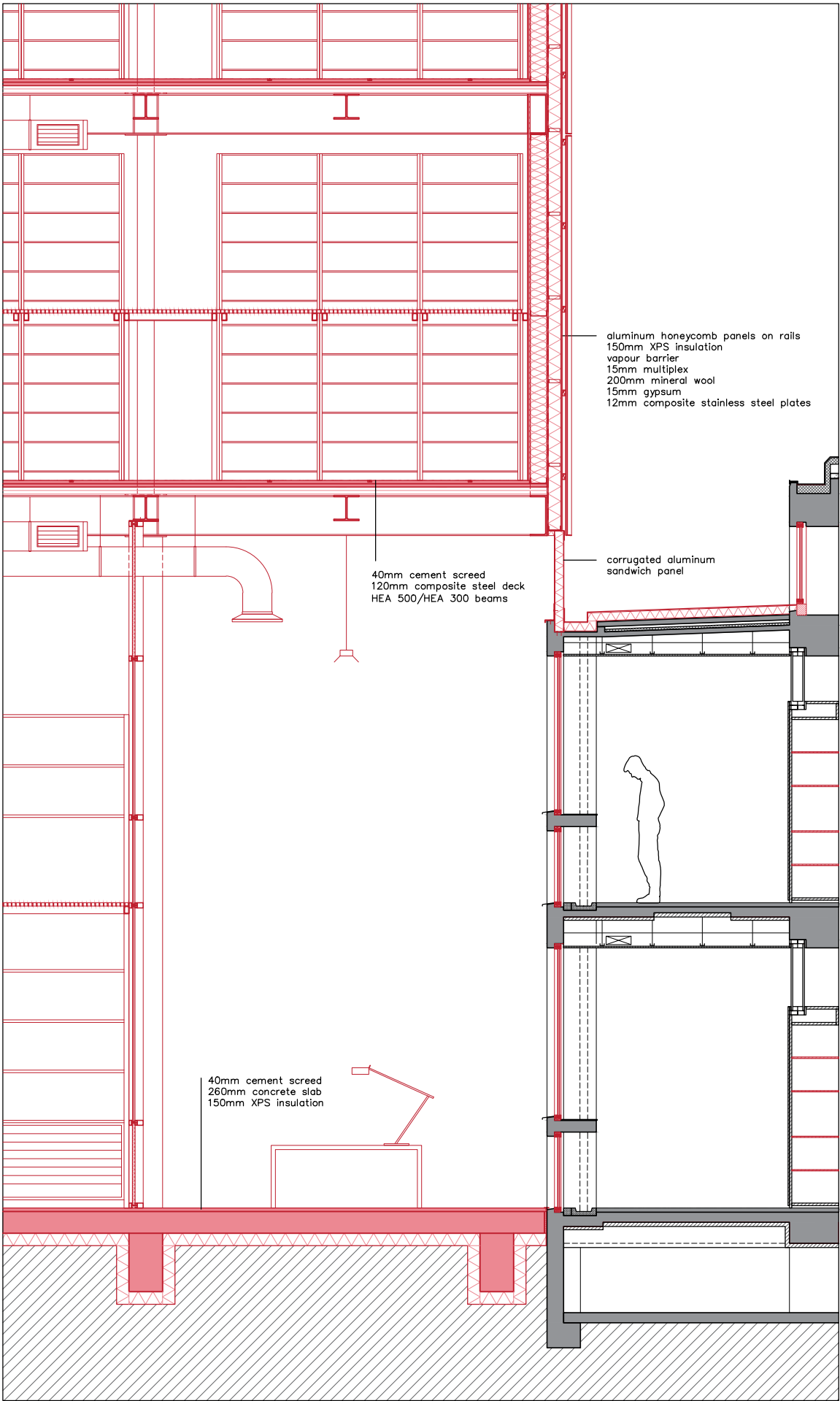


**DEPOT**  
mechanical ventilation with dehydration





facade fragment 1:20 (scaled to 1:66)

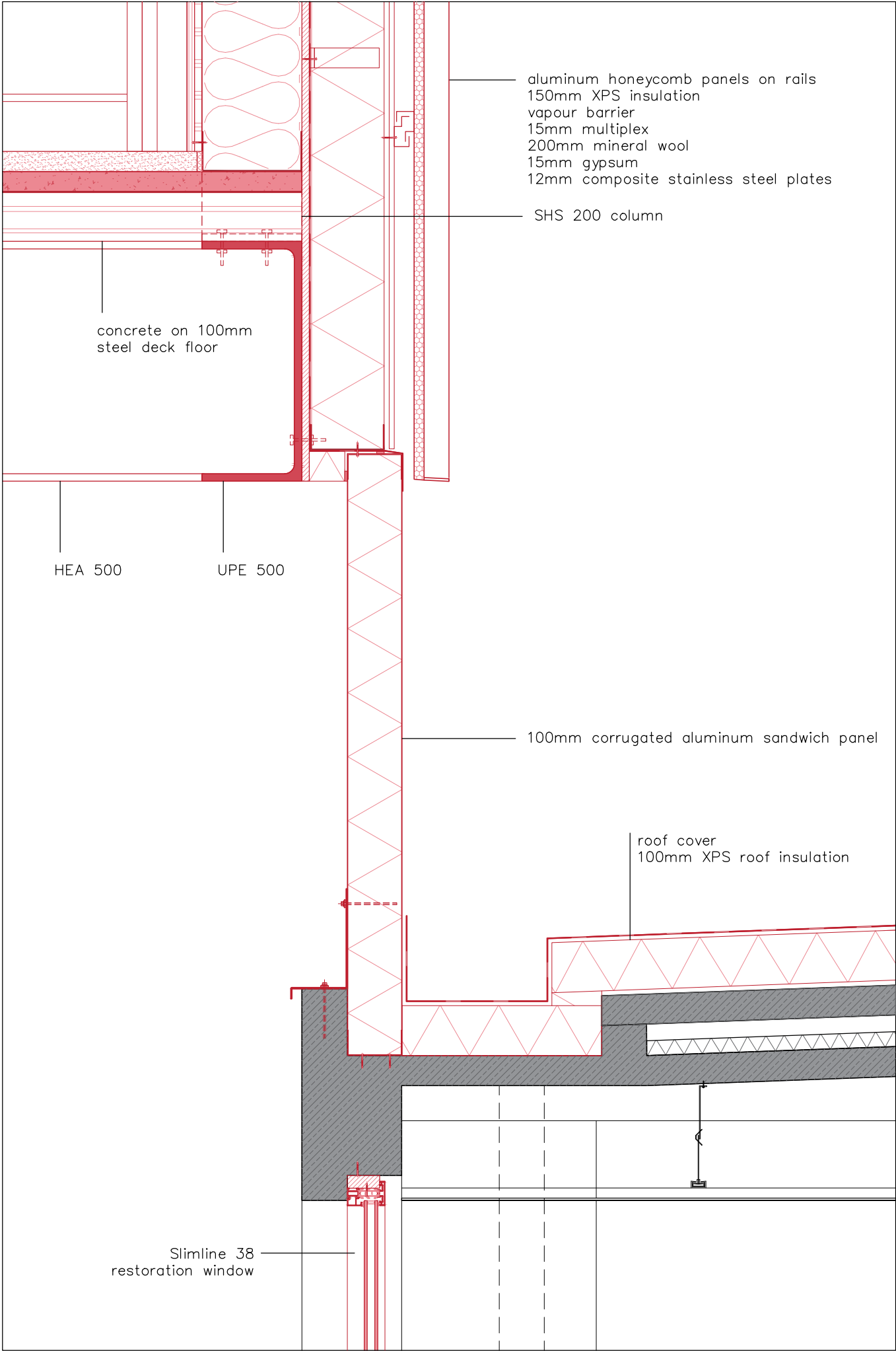








facade fragment 1:5 (scale to 1:10)





|                     | the archive         | the site                |
|---------------------|---------------------|-------------------------|
|                     | VAi                 | deSingel                |
| 1. A COUNTERBALANCE | a part of the whole | the ensemble of volumes |
| 2. A DEPOT          | a condensed core    | enveloped rooms         |
| 3. A SEQUENCE       | a visible process   | the front and the back  |
| 4. A 3D GRID        |                     |                         |



the precedents of architecture archives



The Reference Projects, from left to right as stated in 'Model Archives'.







an 1:15 model of the archive of the CCA

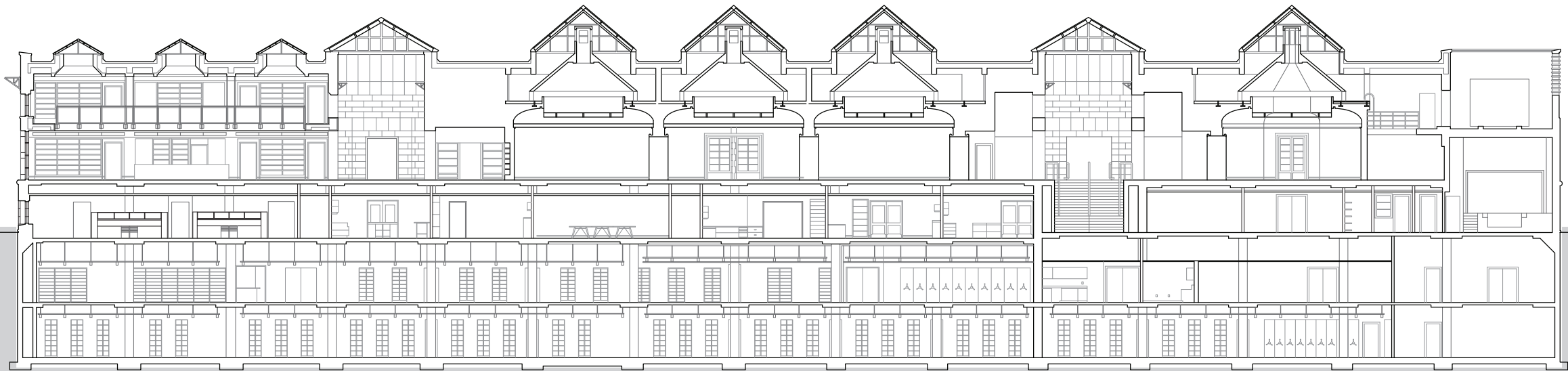








section of the Canadian Centre for Architecture

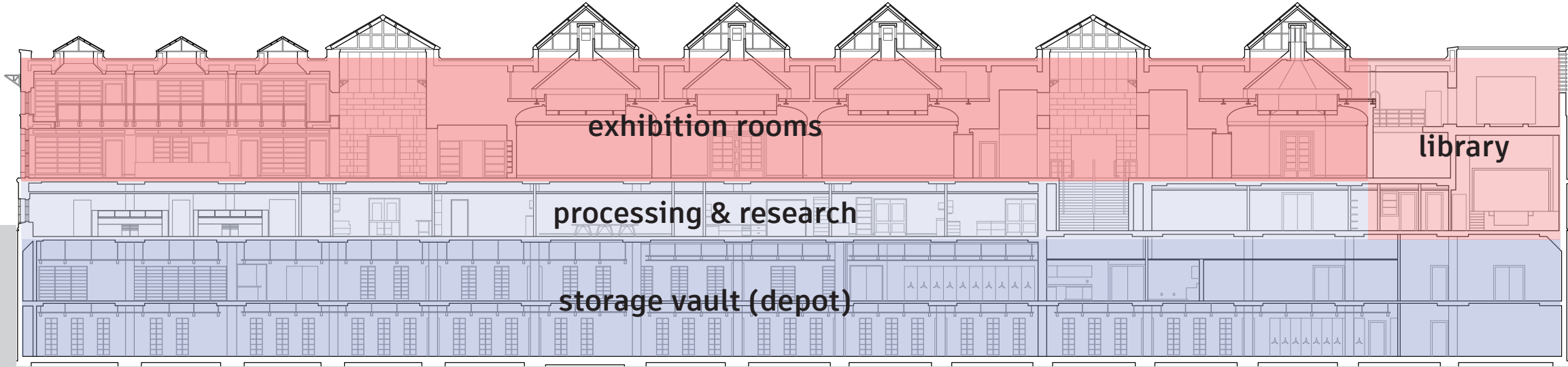


scale 1:500

Figure 3: Redrawing of the longitudinal section of the CCA, based on Peter Rose Architect drawings (Danesin, 2024)



section of the Canadian Centre for Architecture

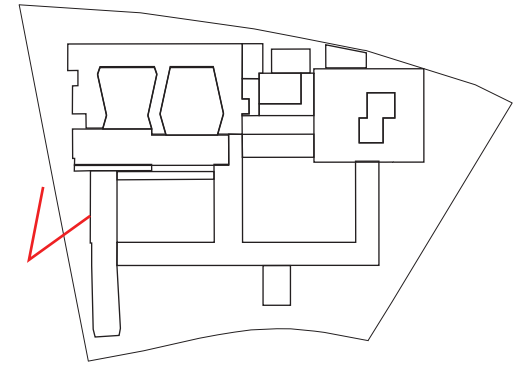


scale 1:500

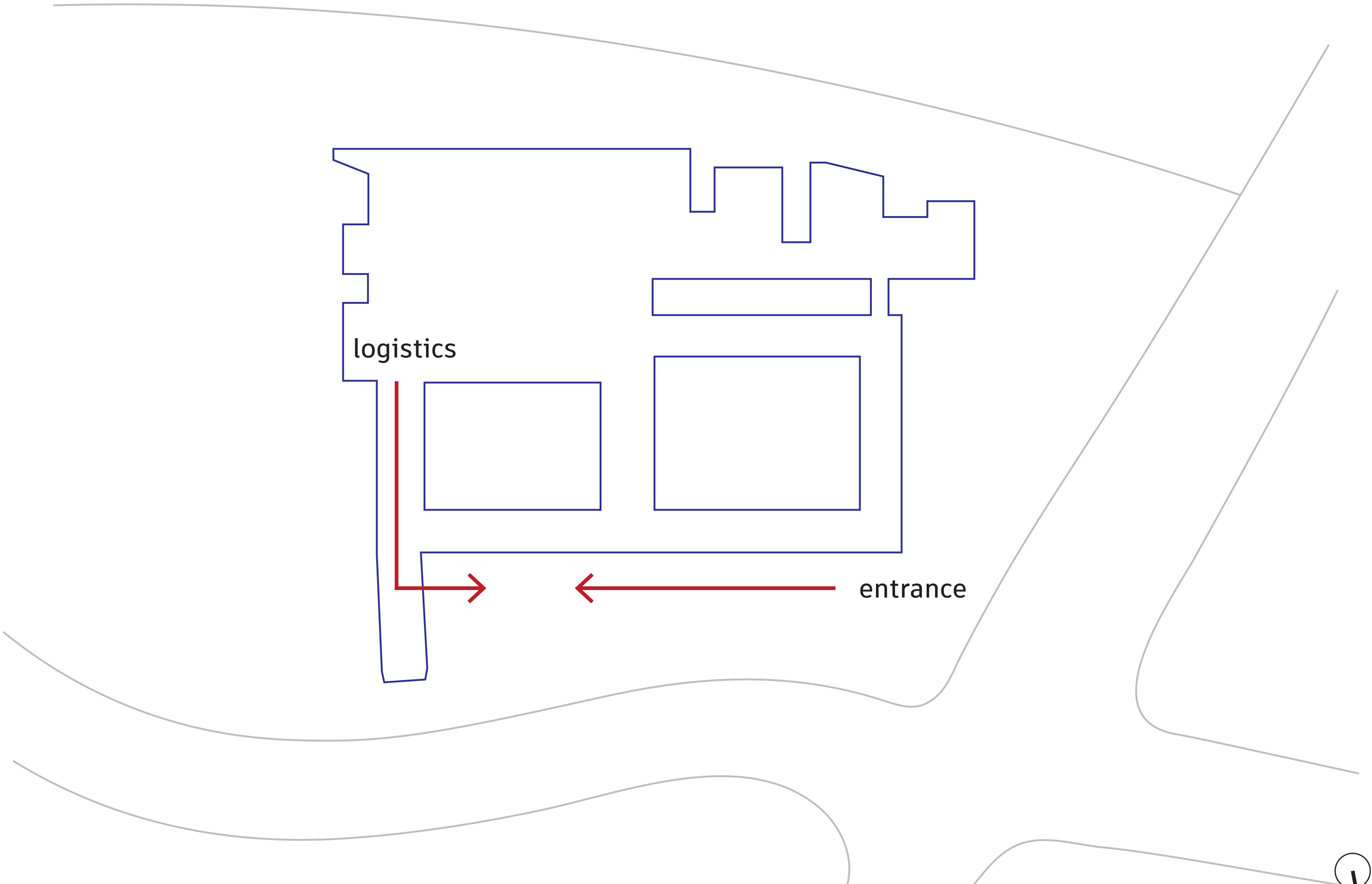
Figure 3: Redrawing of the longitudinal section of the CCA, based on Peter Rose Architect drawings (Danesin, 2024)



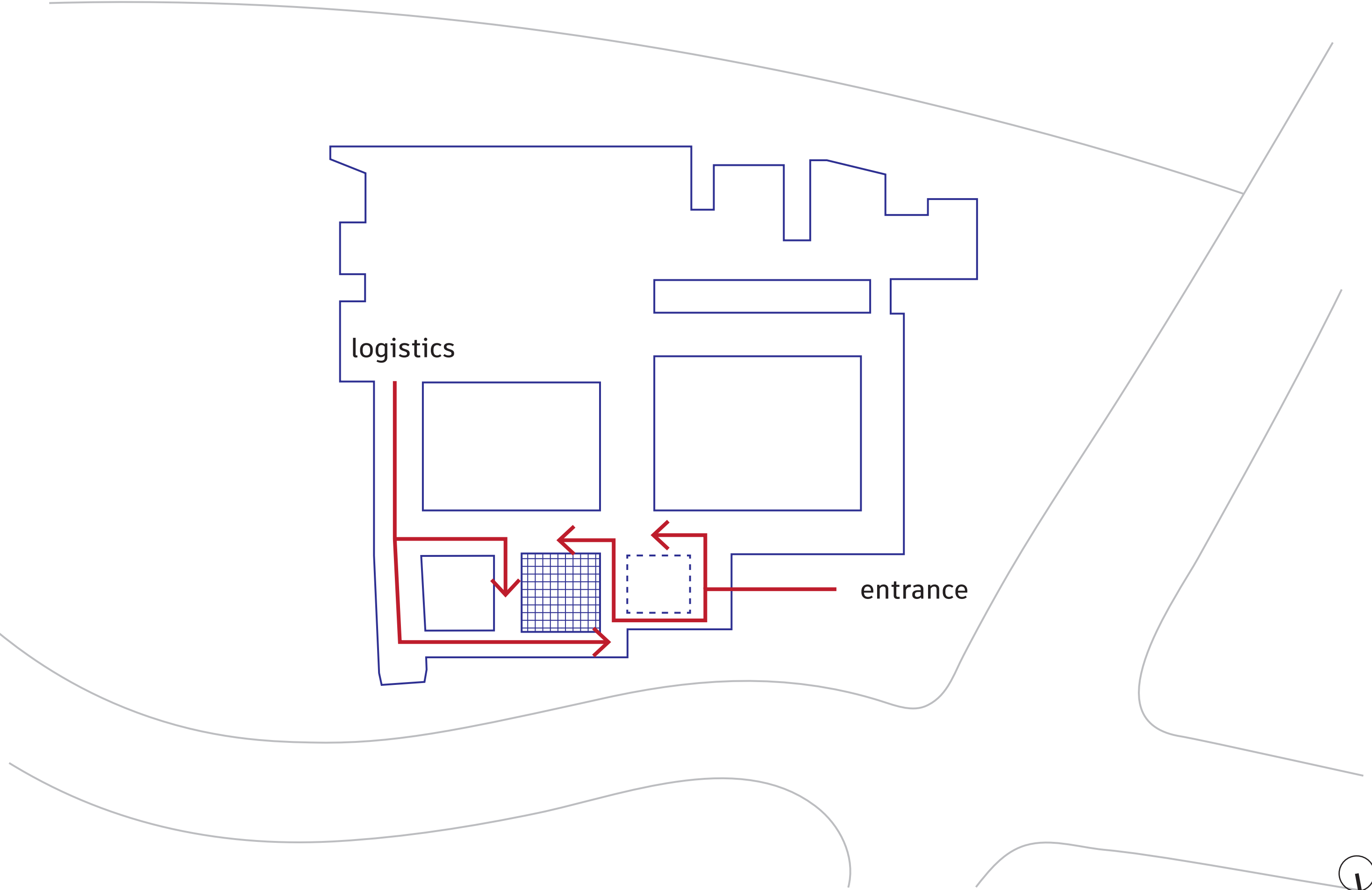
the existing loading & unloading zone





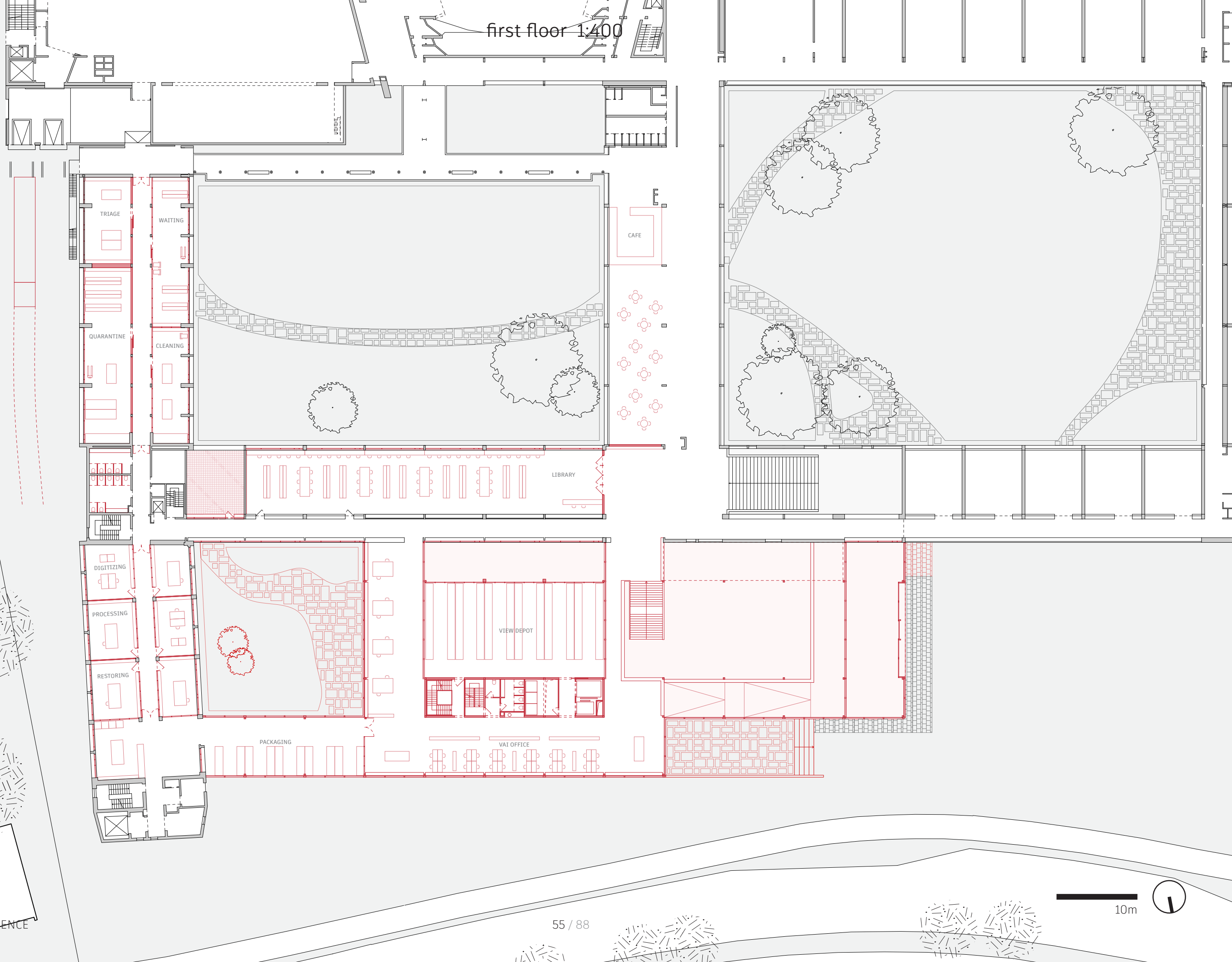






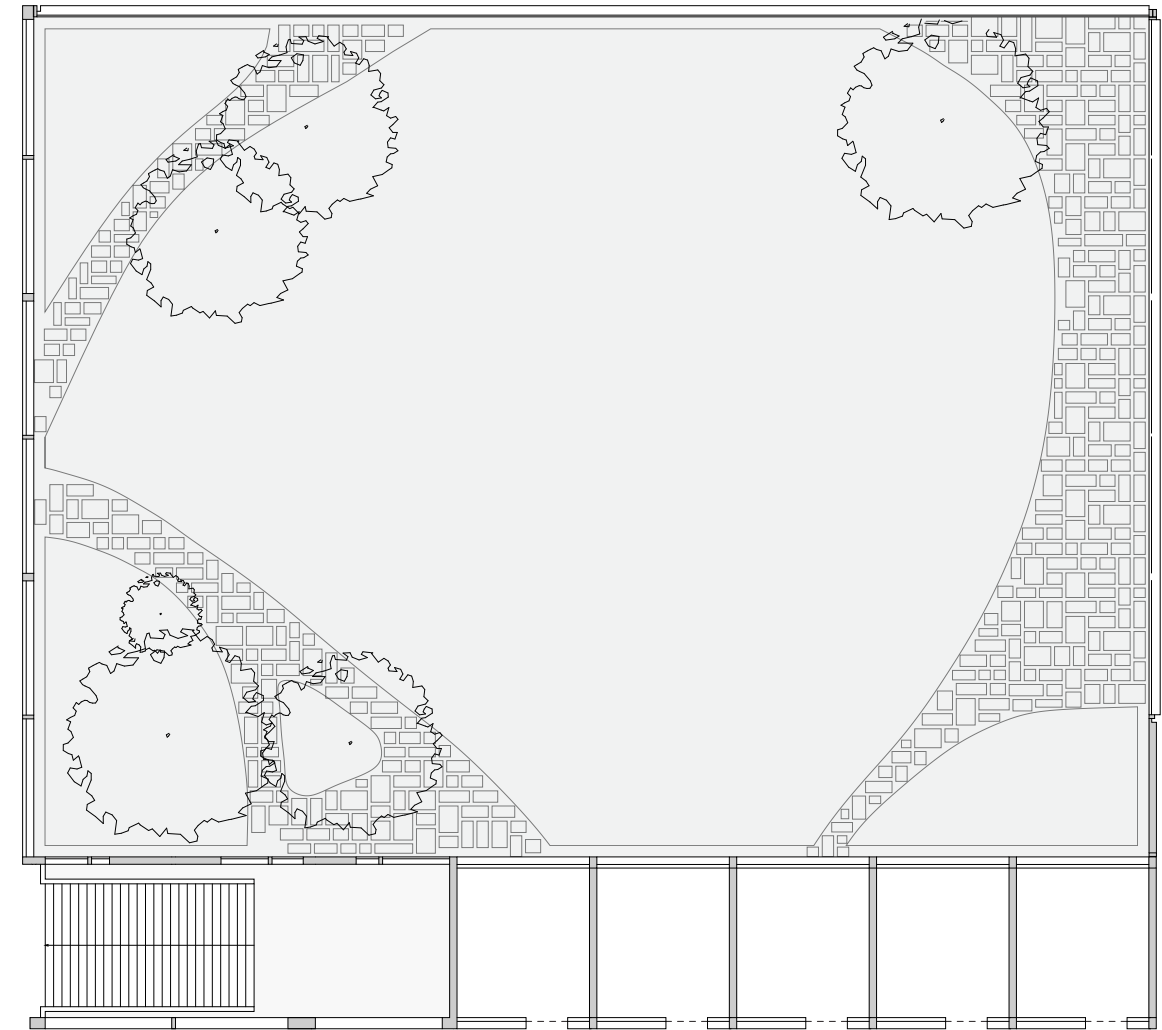
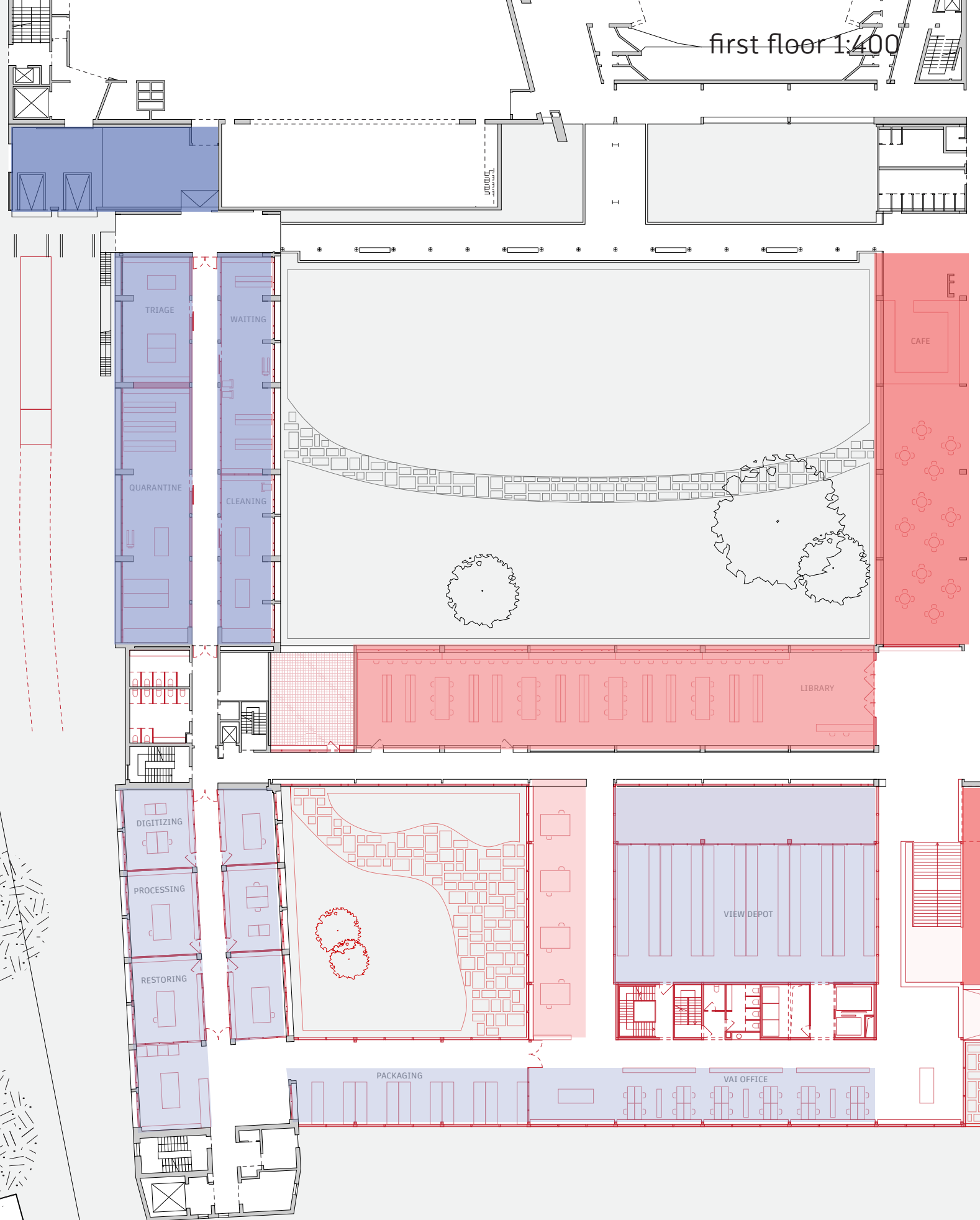


first floor 1:400



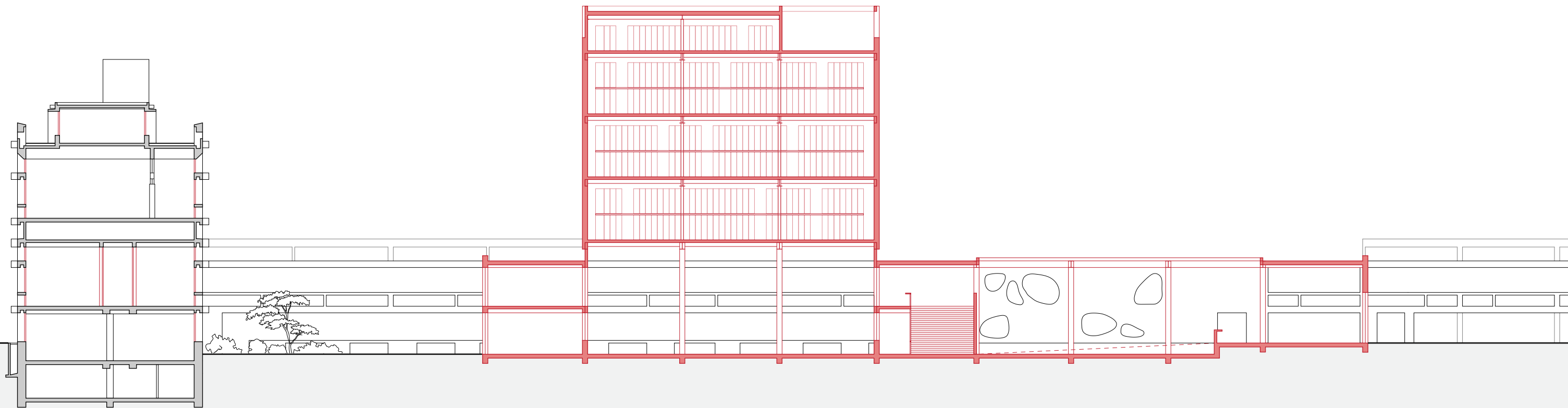
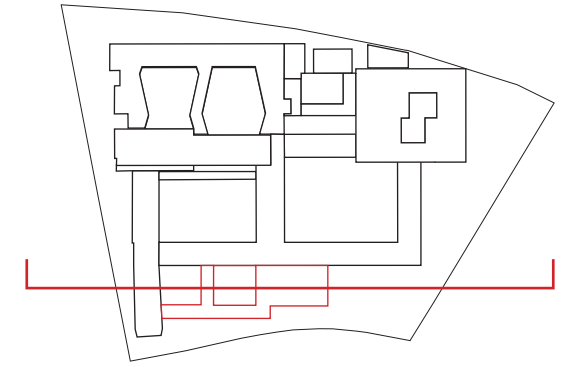


first floor 1:400



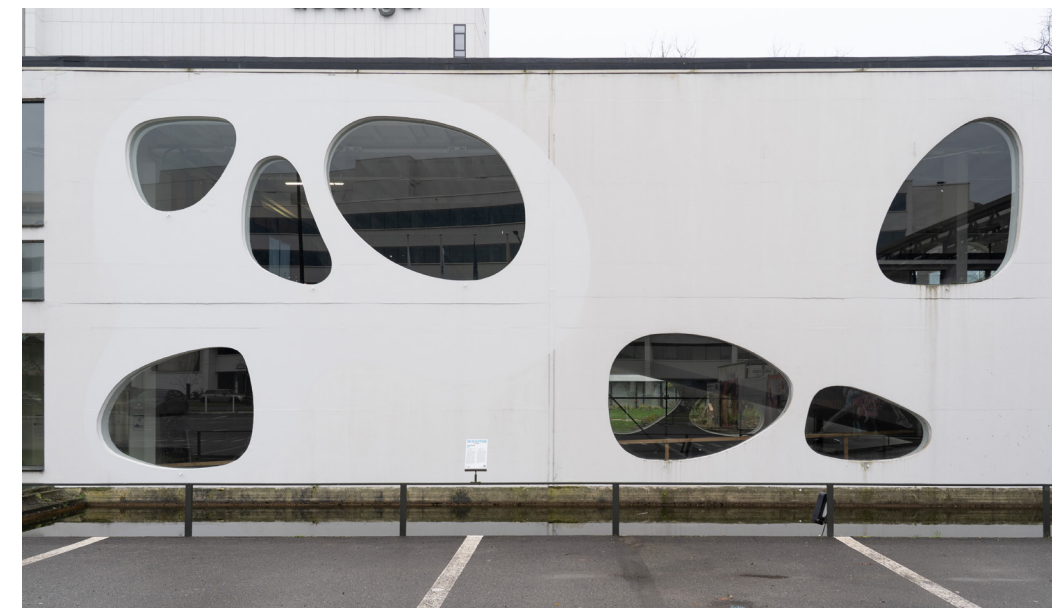


long section 1:300





the three pieces of facade

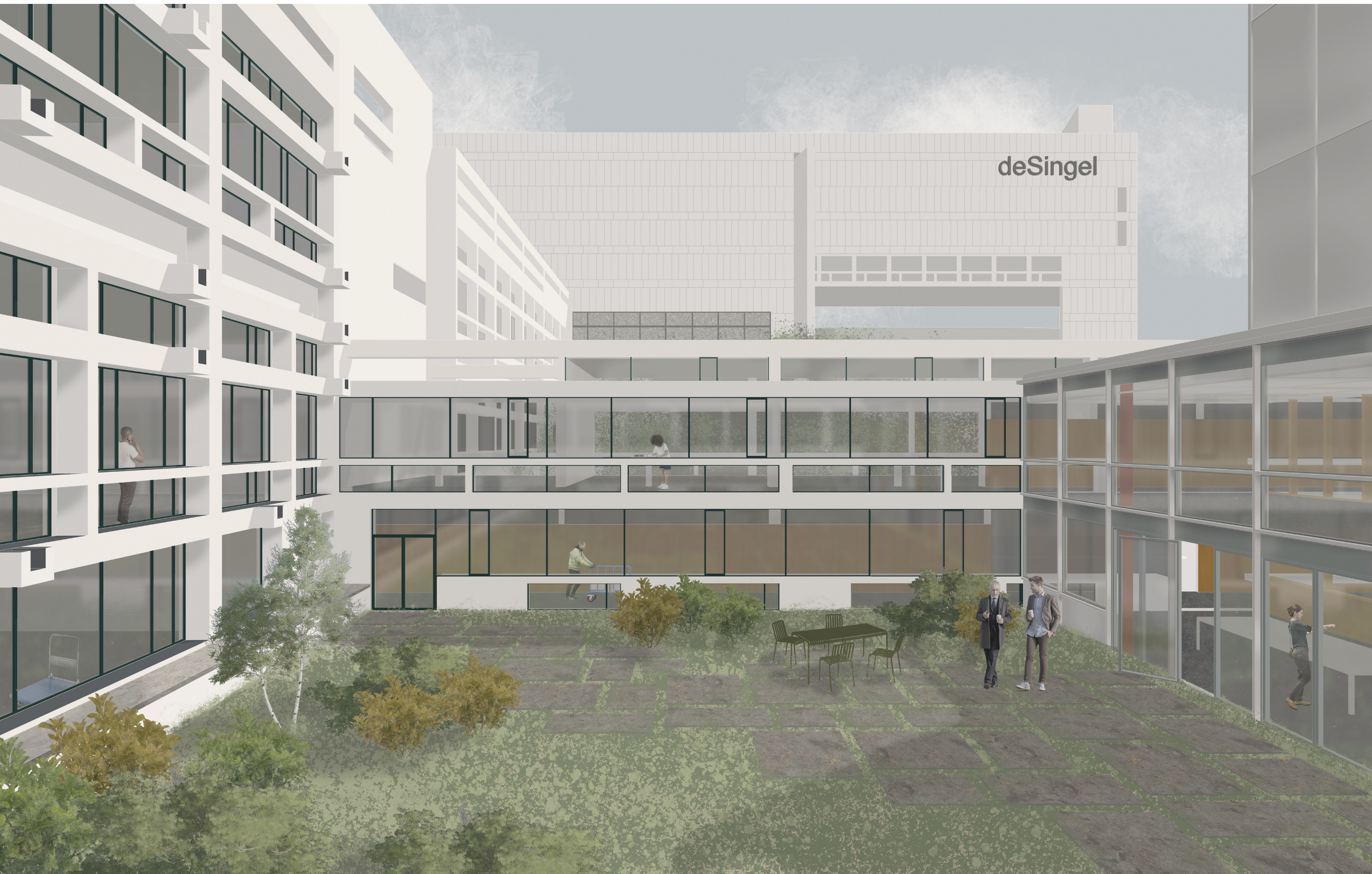




the corner facades

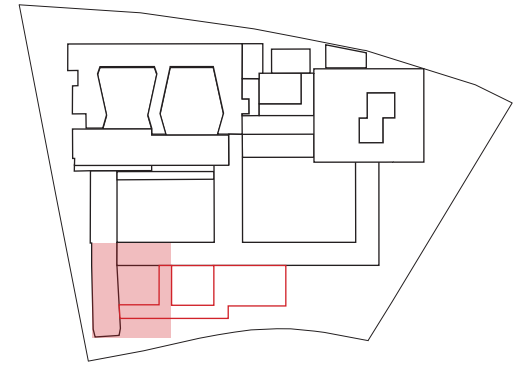
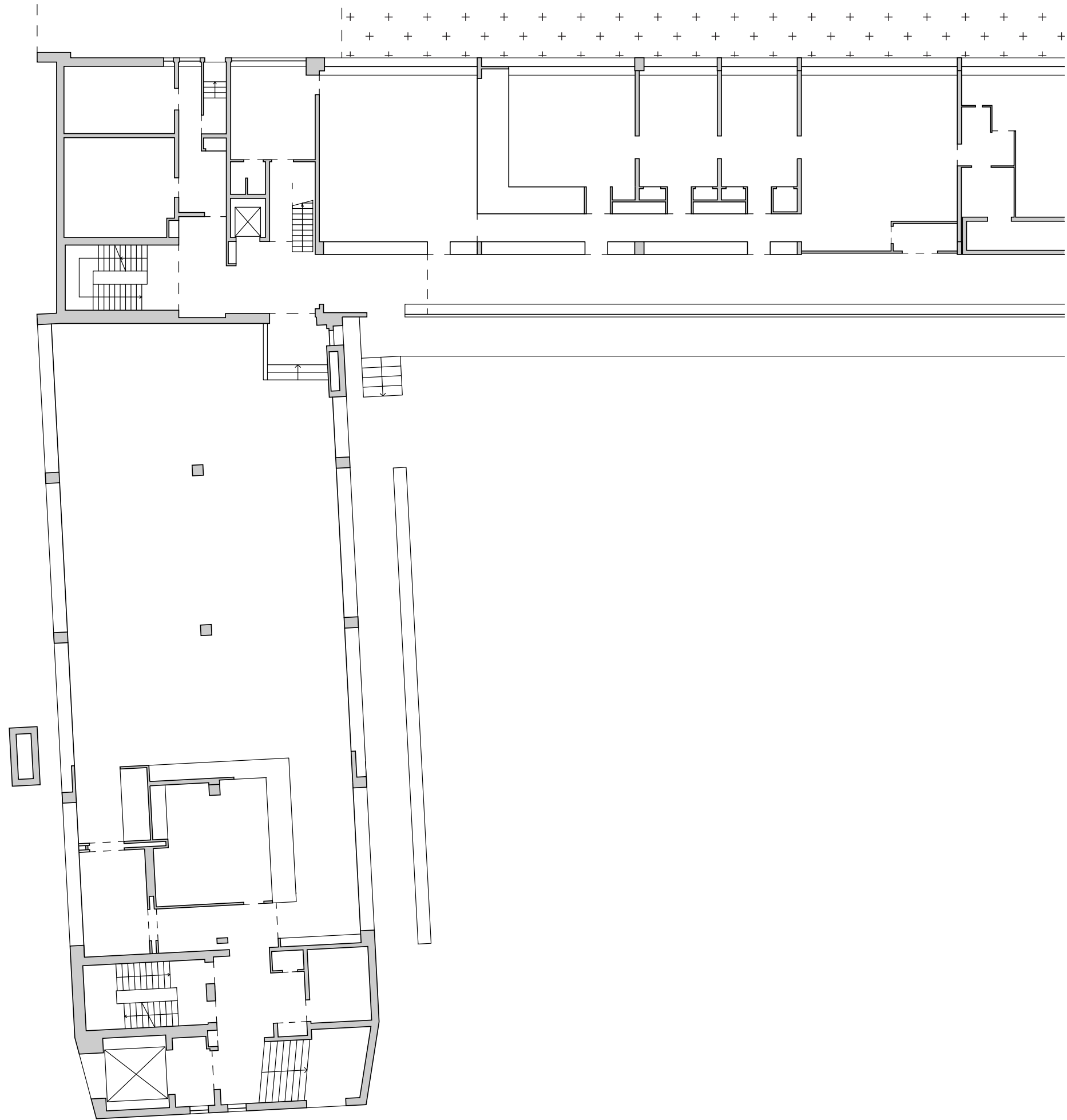






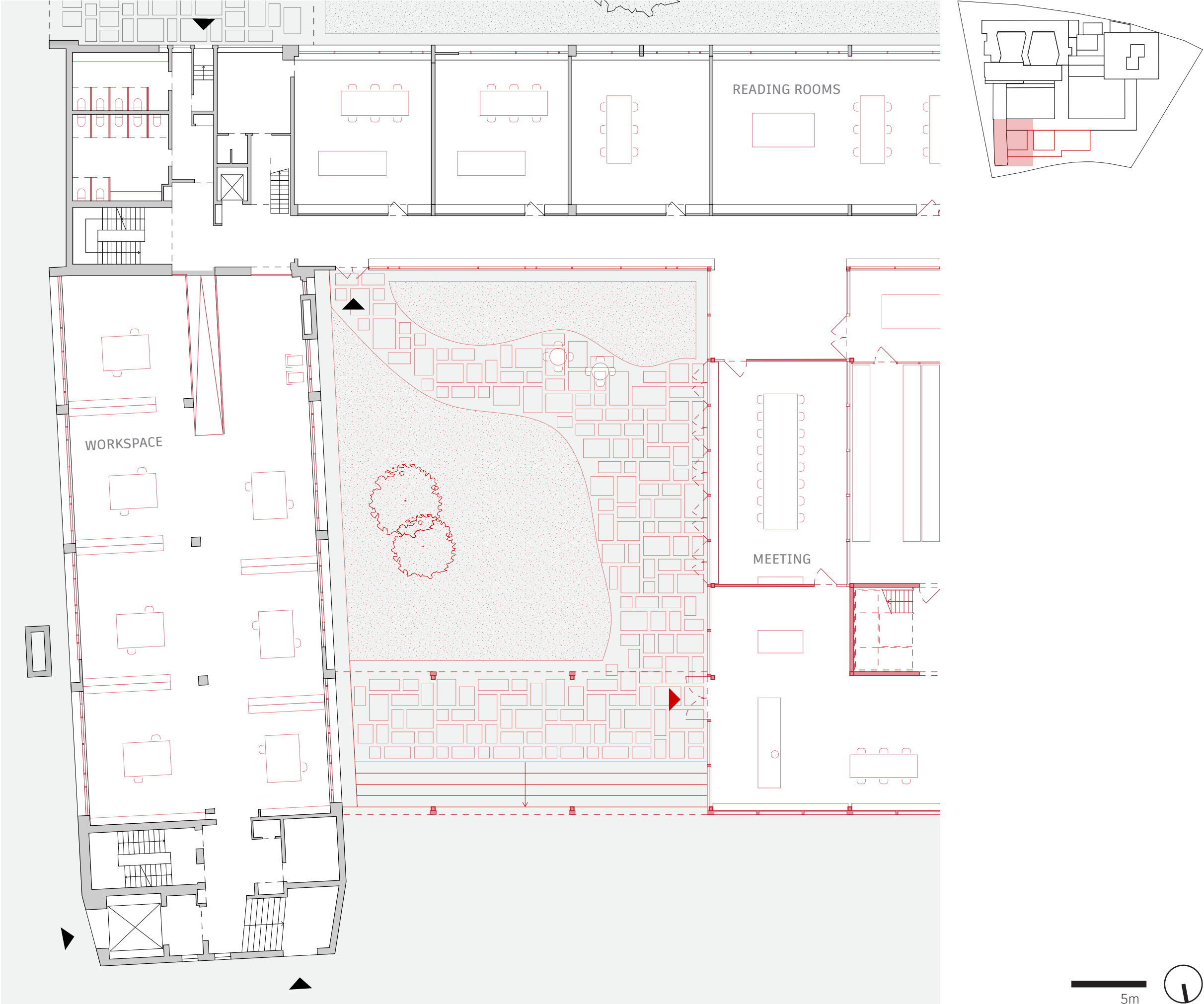


ground floor existing 1:200



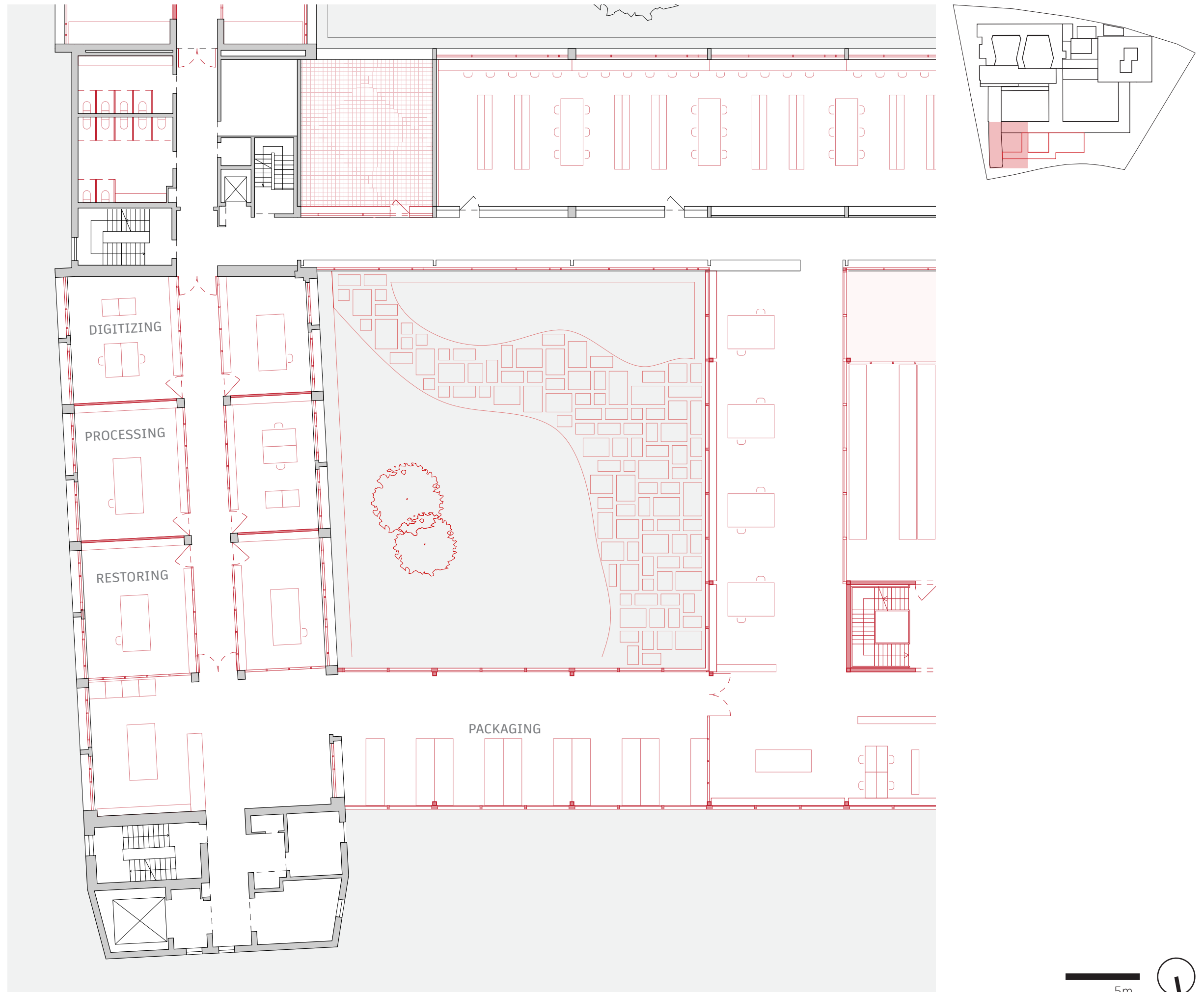


ground floor 1:200

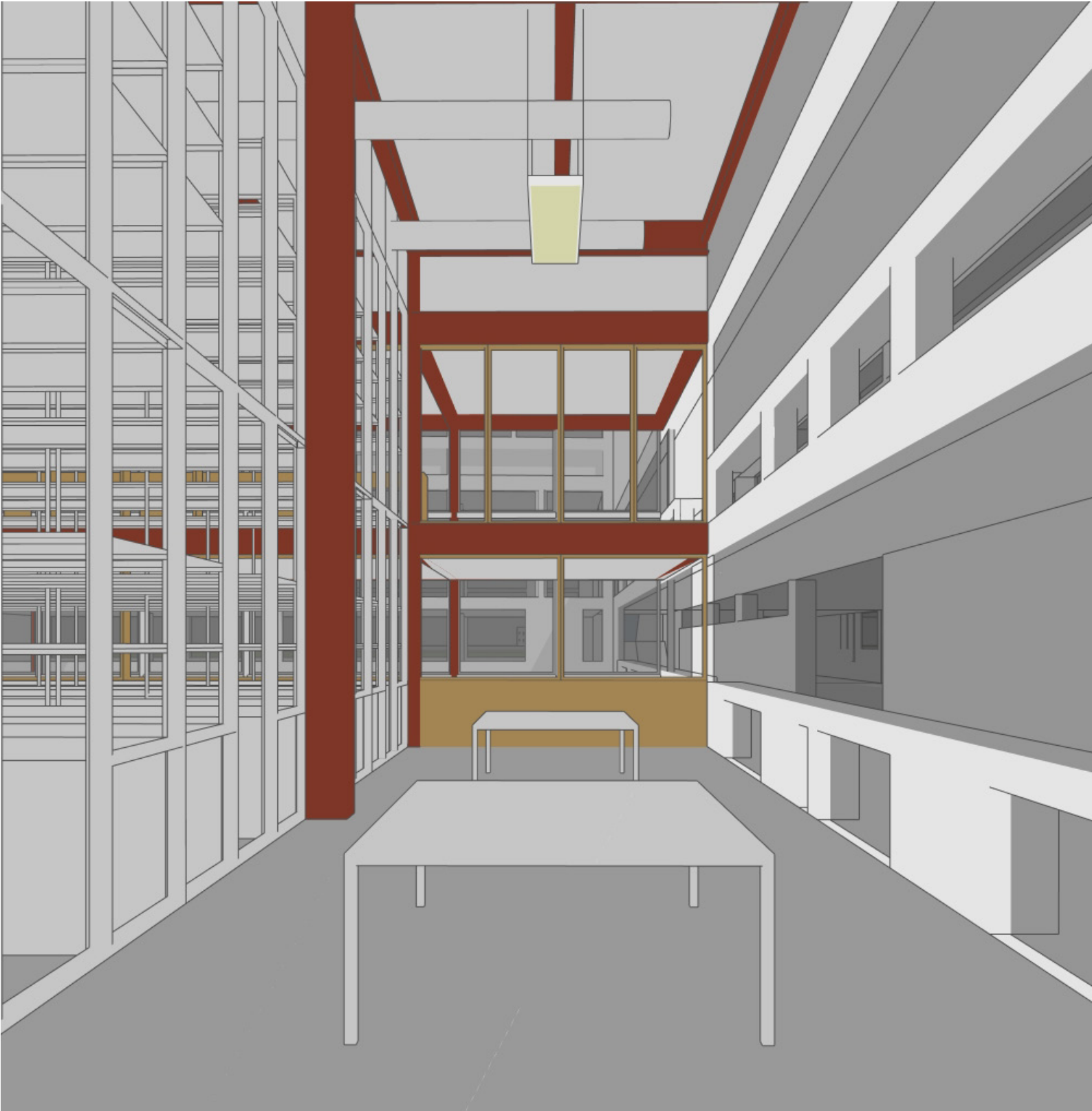




first floor 1:200









the entrance facade



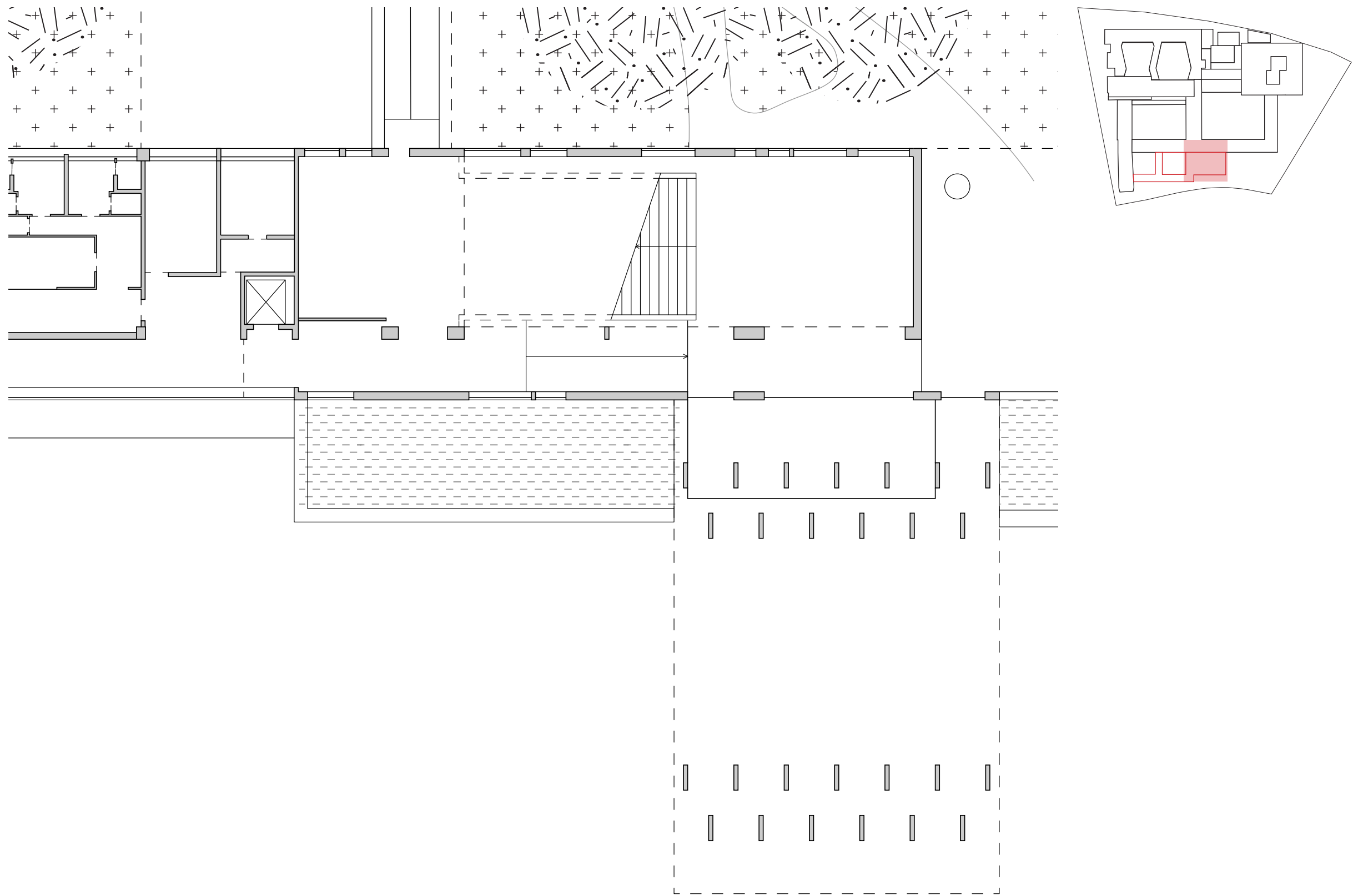


a multifunctional hall



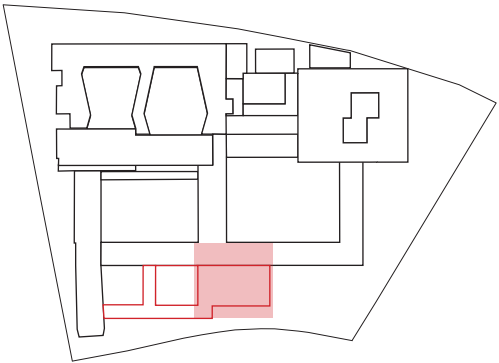
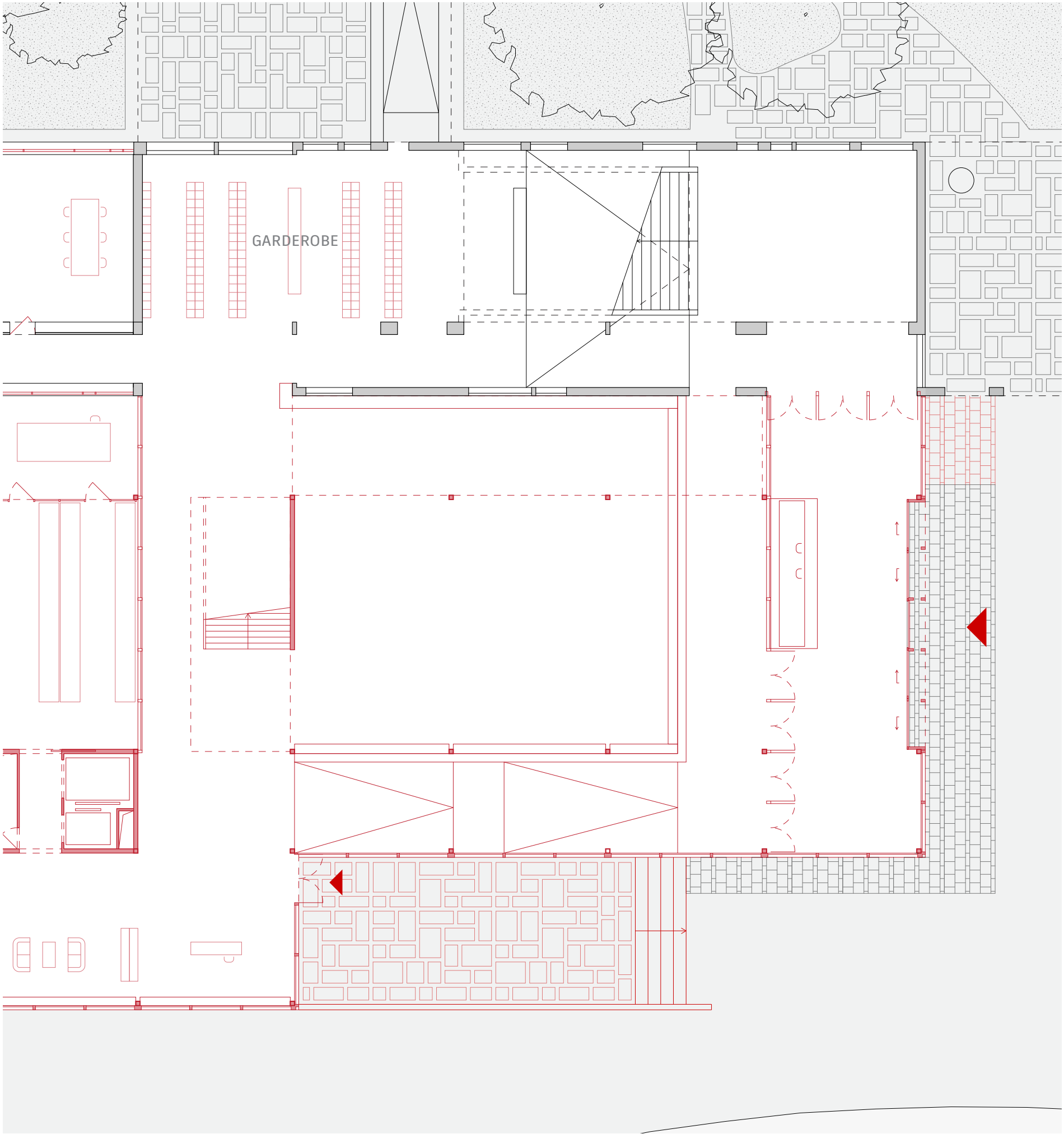


ground floor existing 1:200



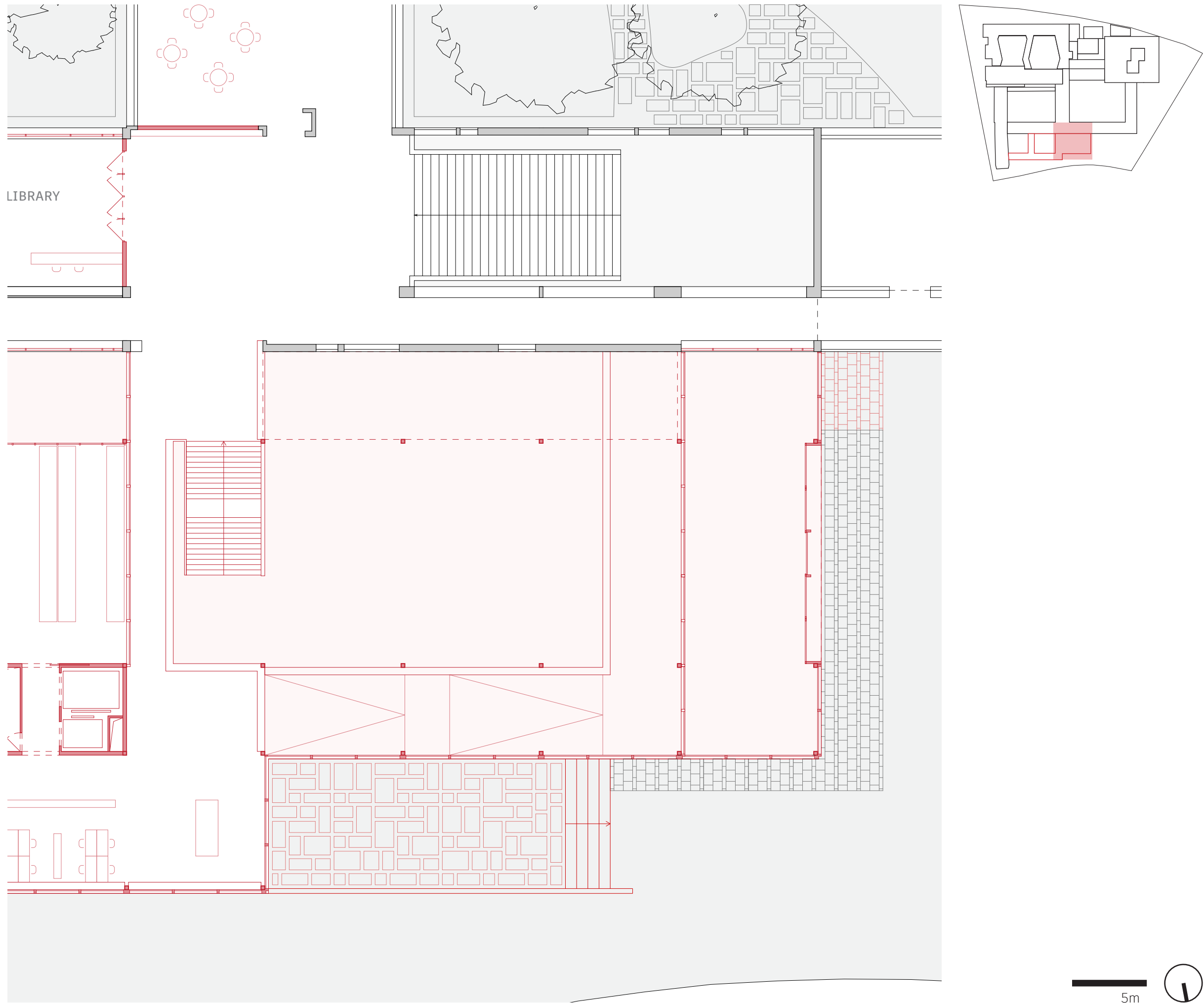


ground floor 1:200





first floor 1:200





the original canopy





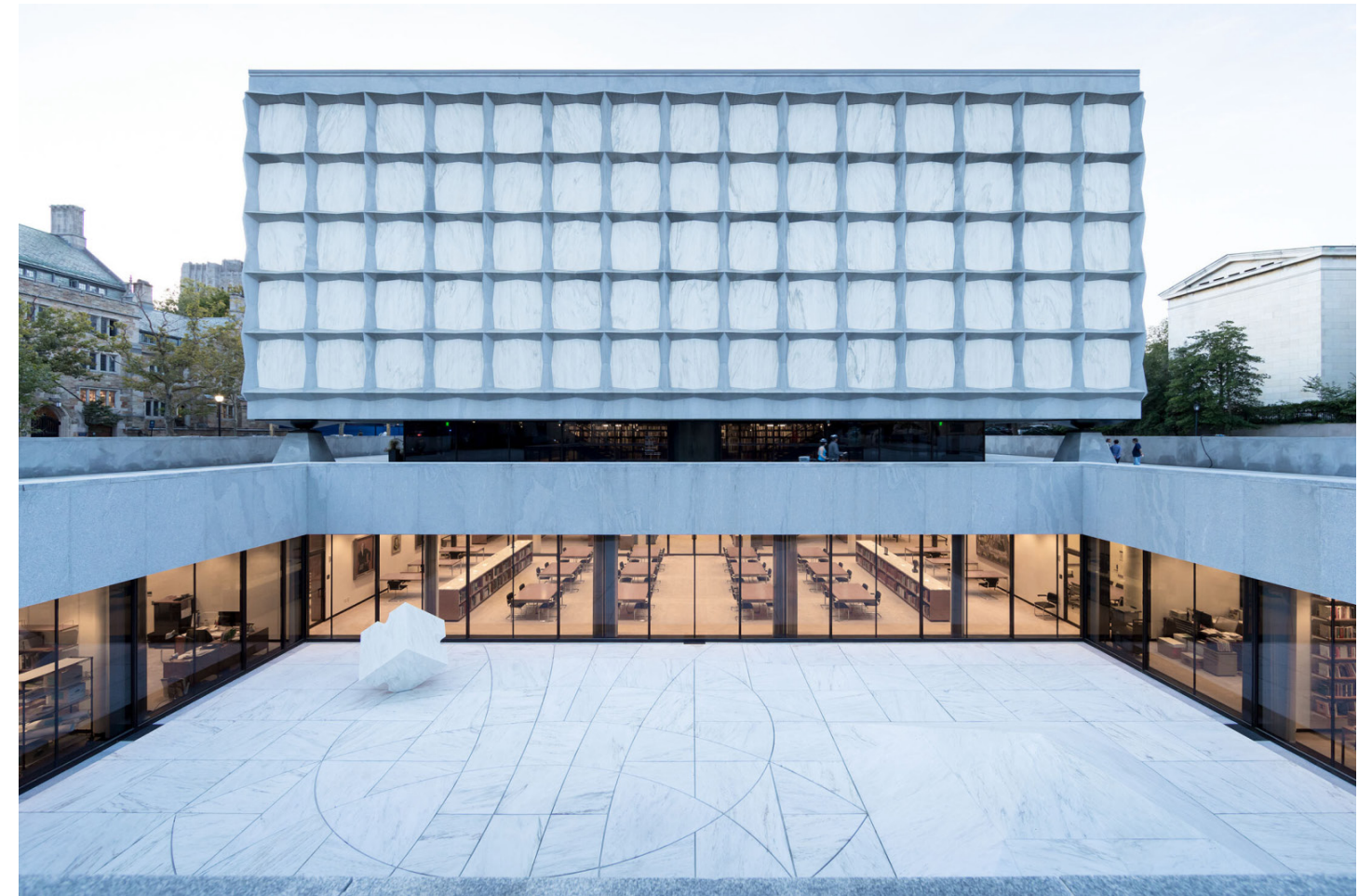
a new version of the entrance



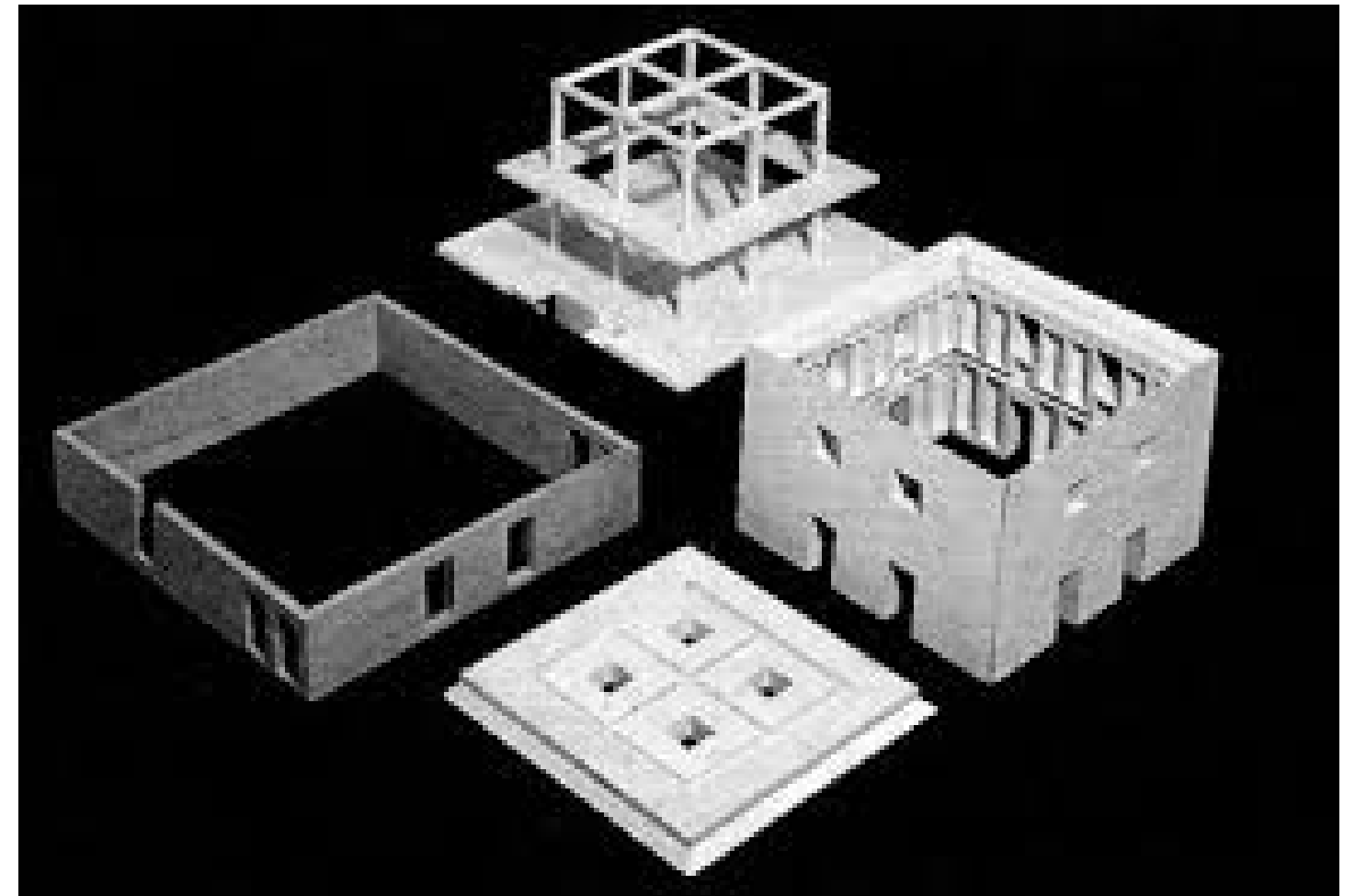


|                     | the archive             | the site                |
|---------------------|-------------------------|-------------------------|
|                     | VAi                     | deSingel                |
| 1. A COUNTERBALANCE | a part of the whole     | the ensemble of volumes |
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| 3. A SEQUENCE       | a visible process       | the front and the back  |
| 4. A 3D GRID        | a measurable collection | two sets of grids       |













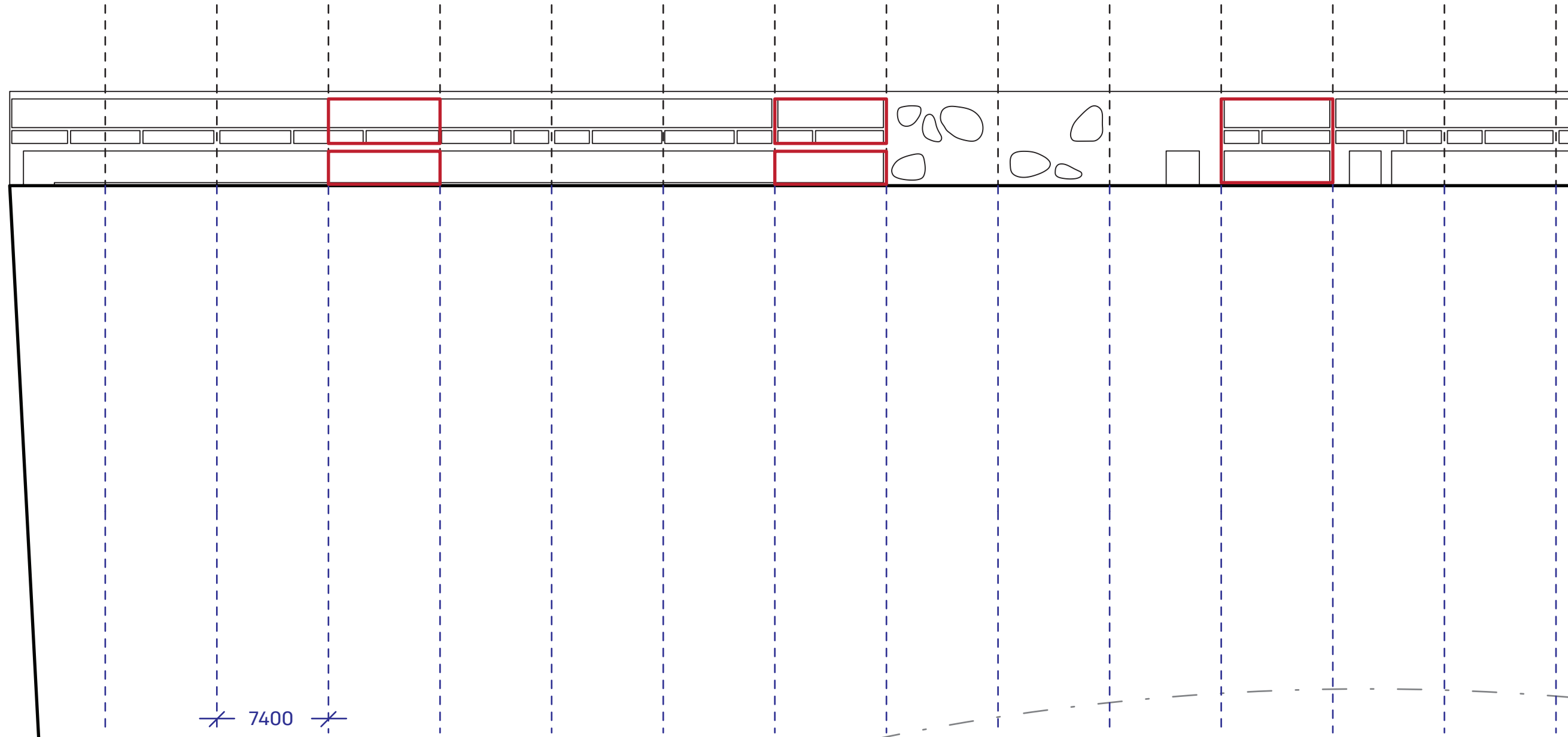


grid expressed in the new facade



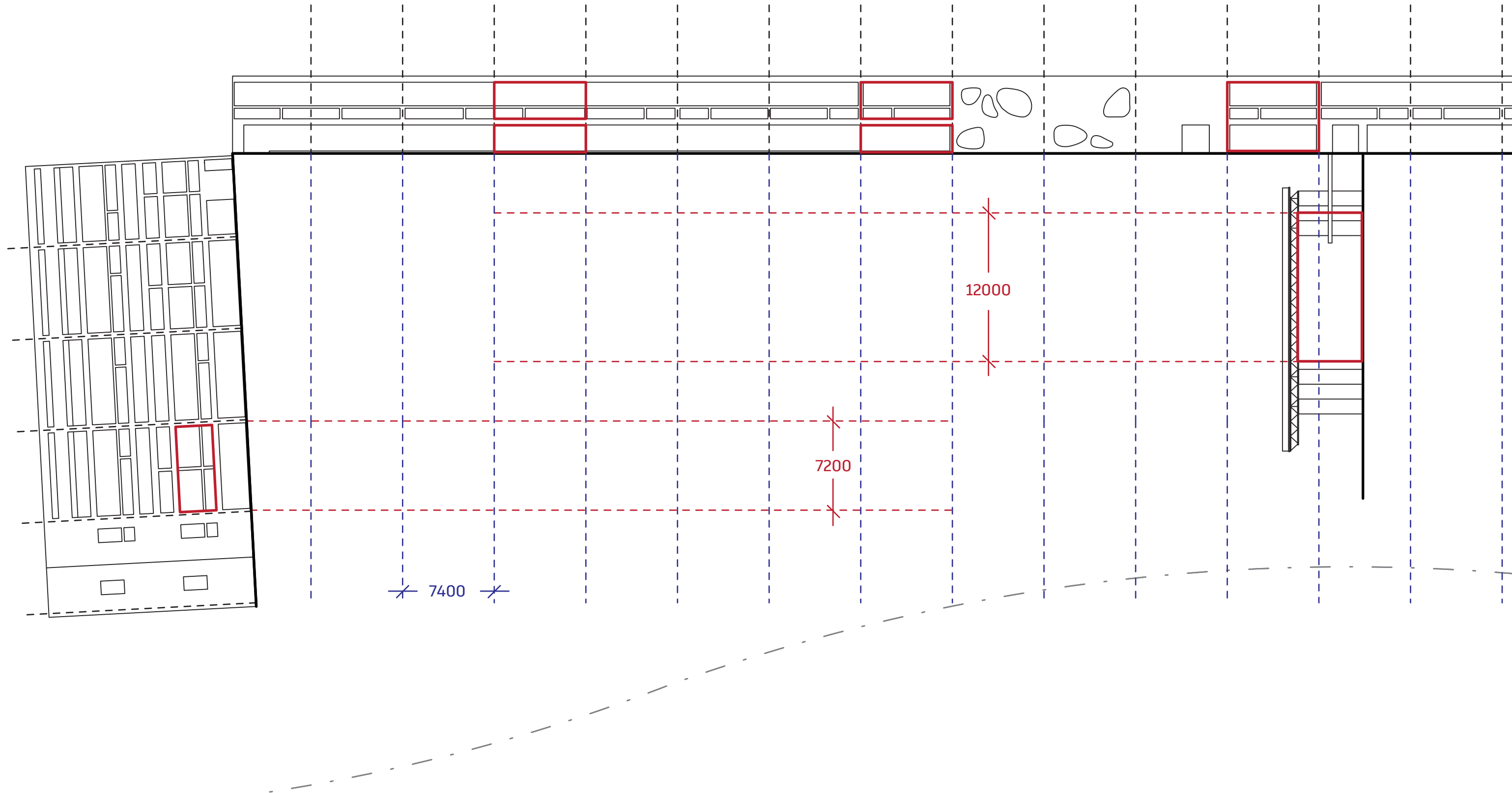


the existing 7400 grid



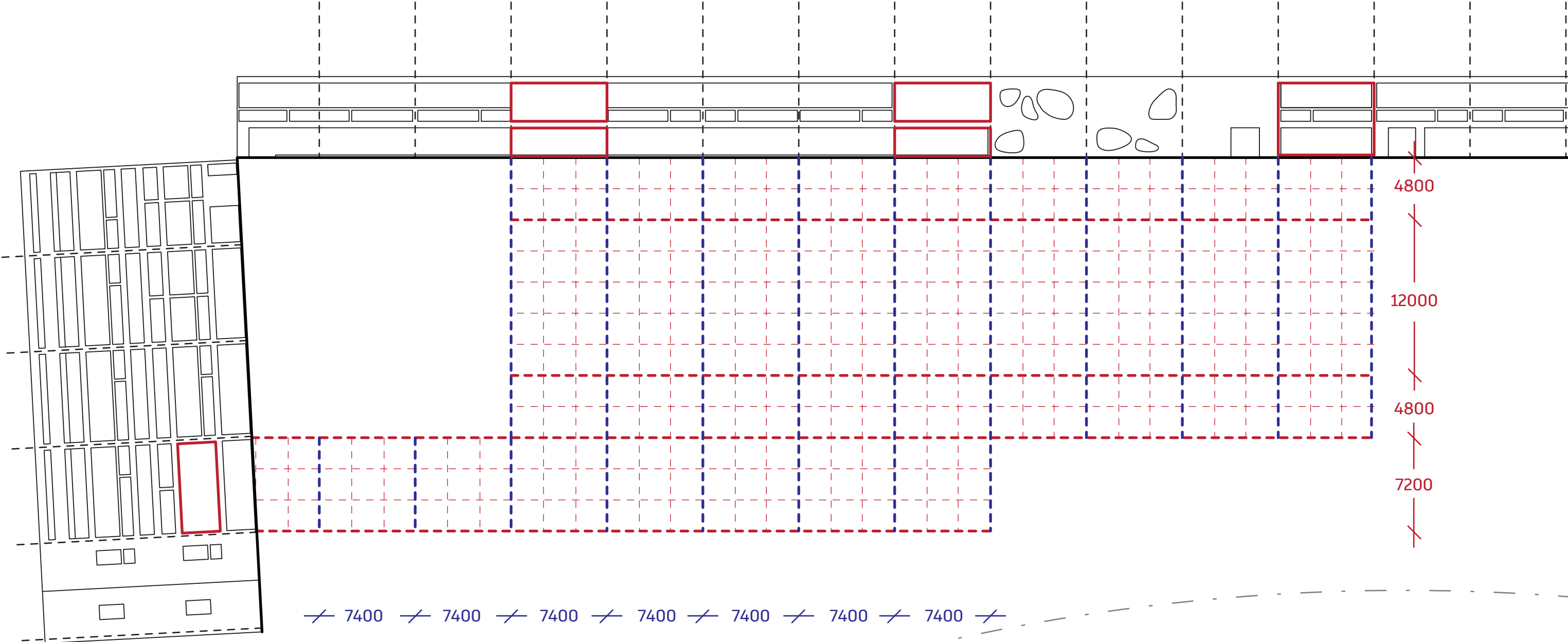


# the new grid



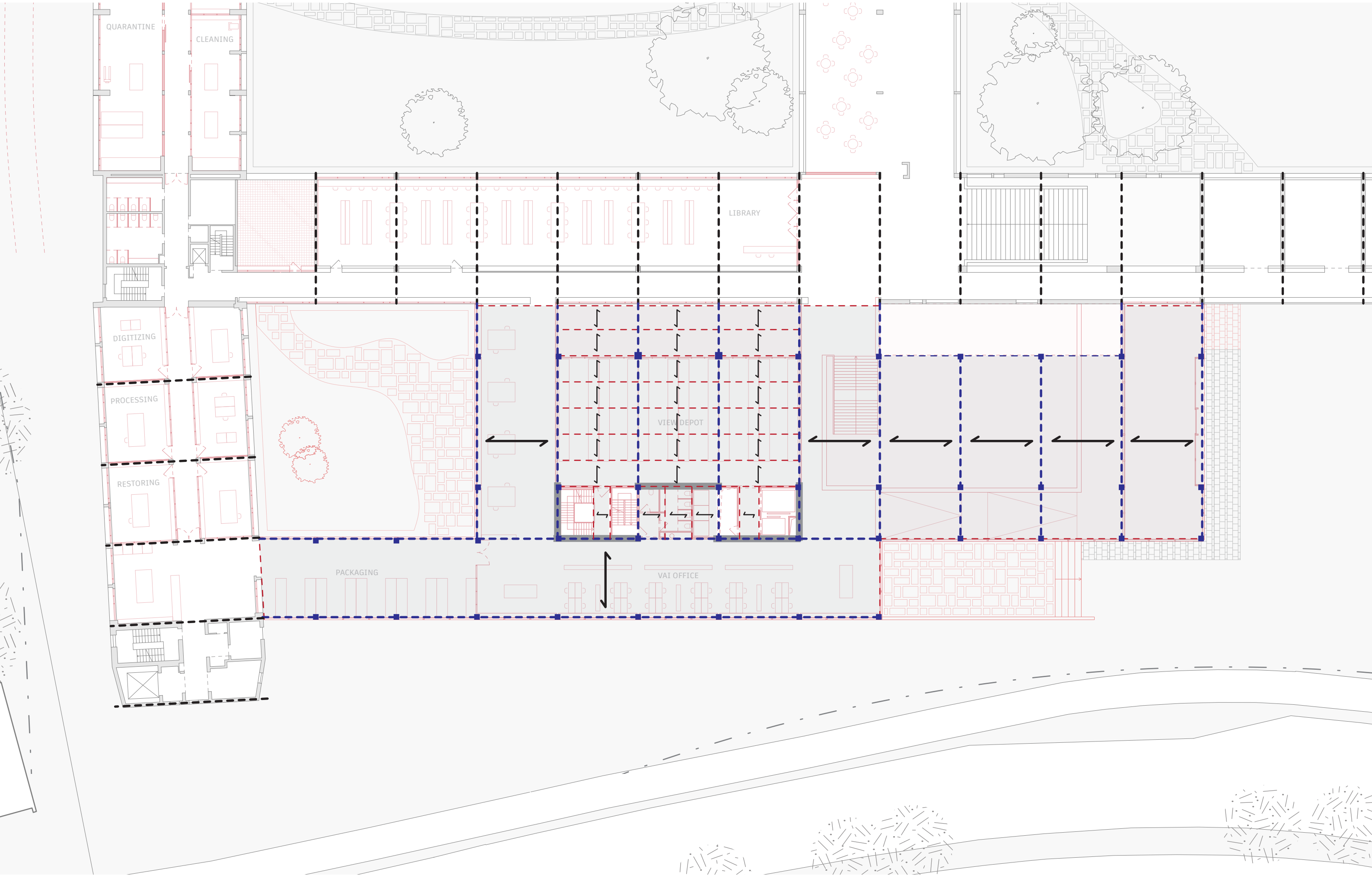


the combined grid



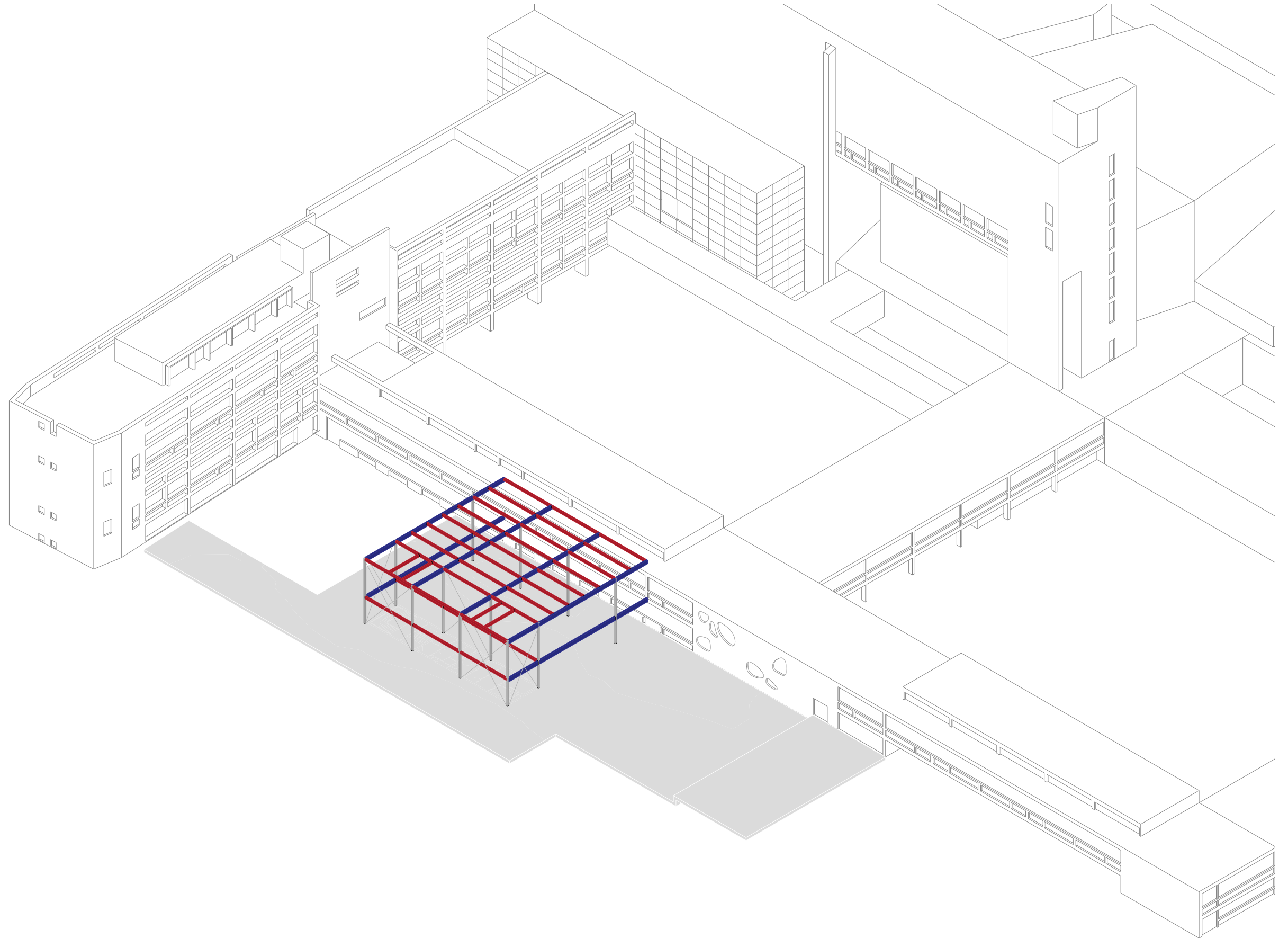


structural plan



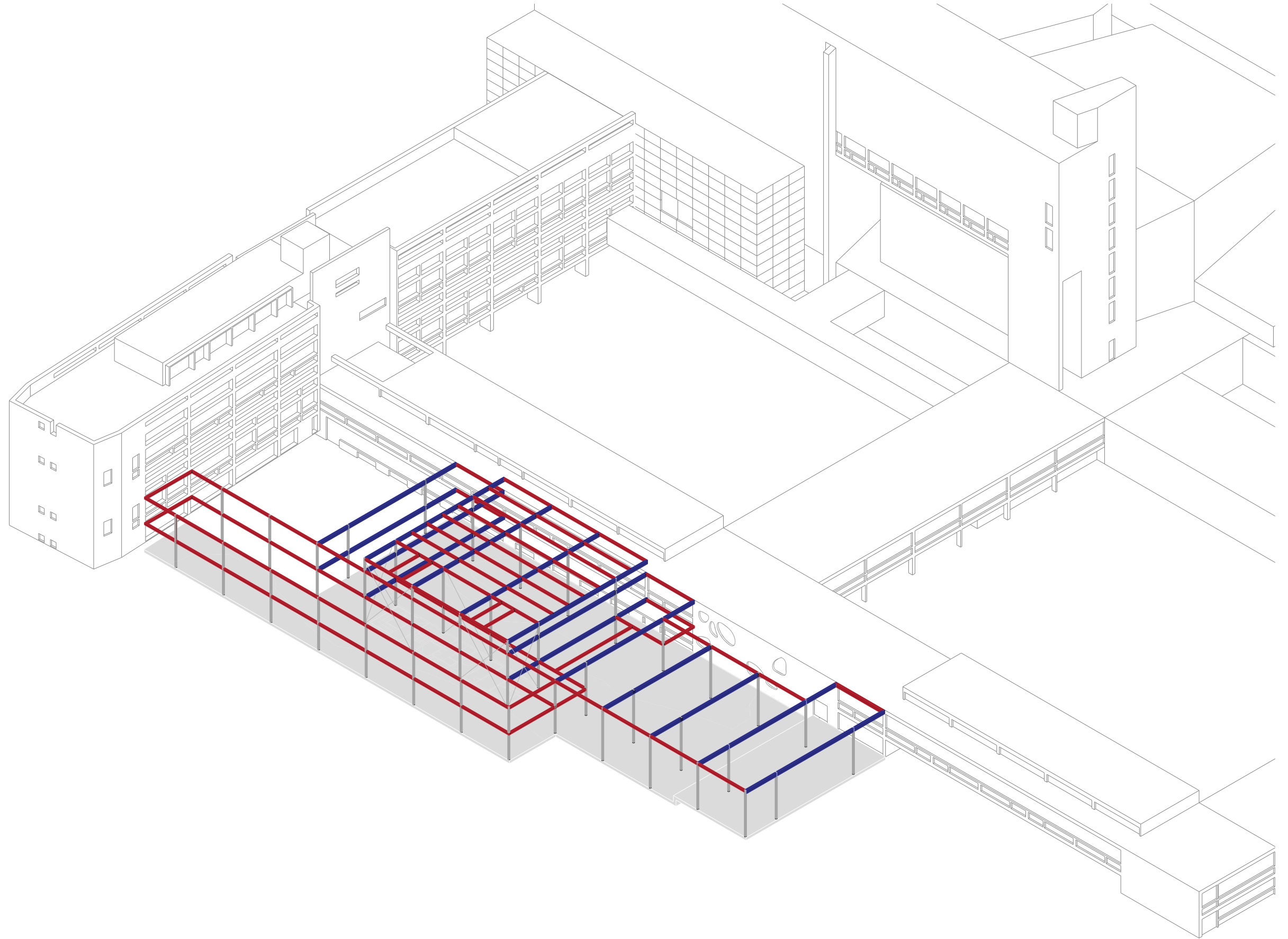


# structural diagram



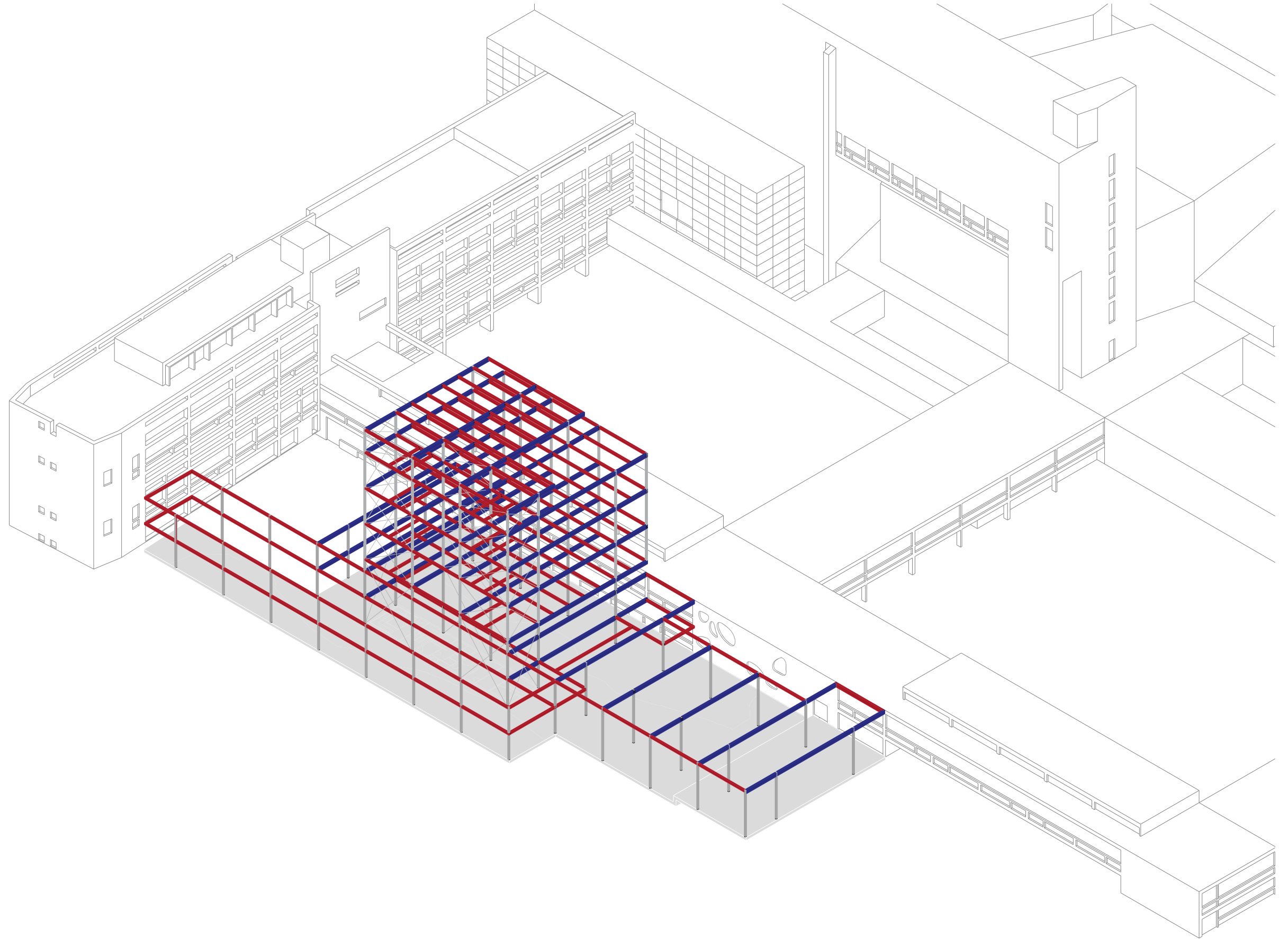


# structural diagram



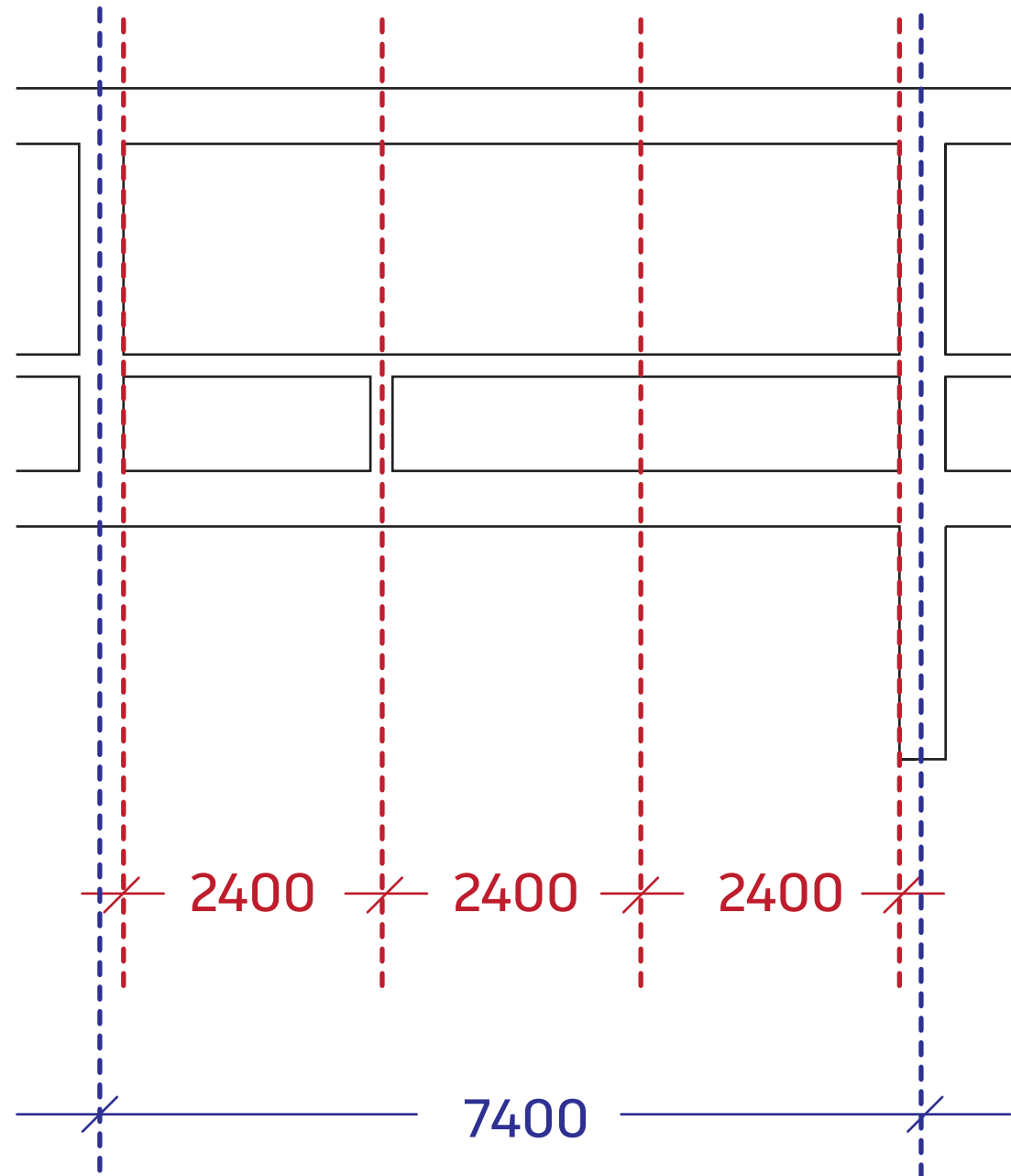


# structural diagram





## the existing Stynen grid





the side facade



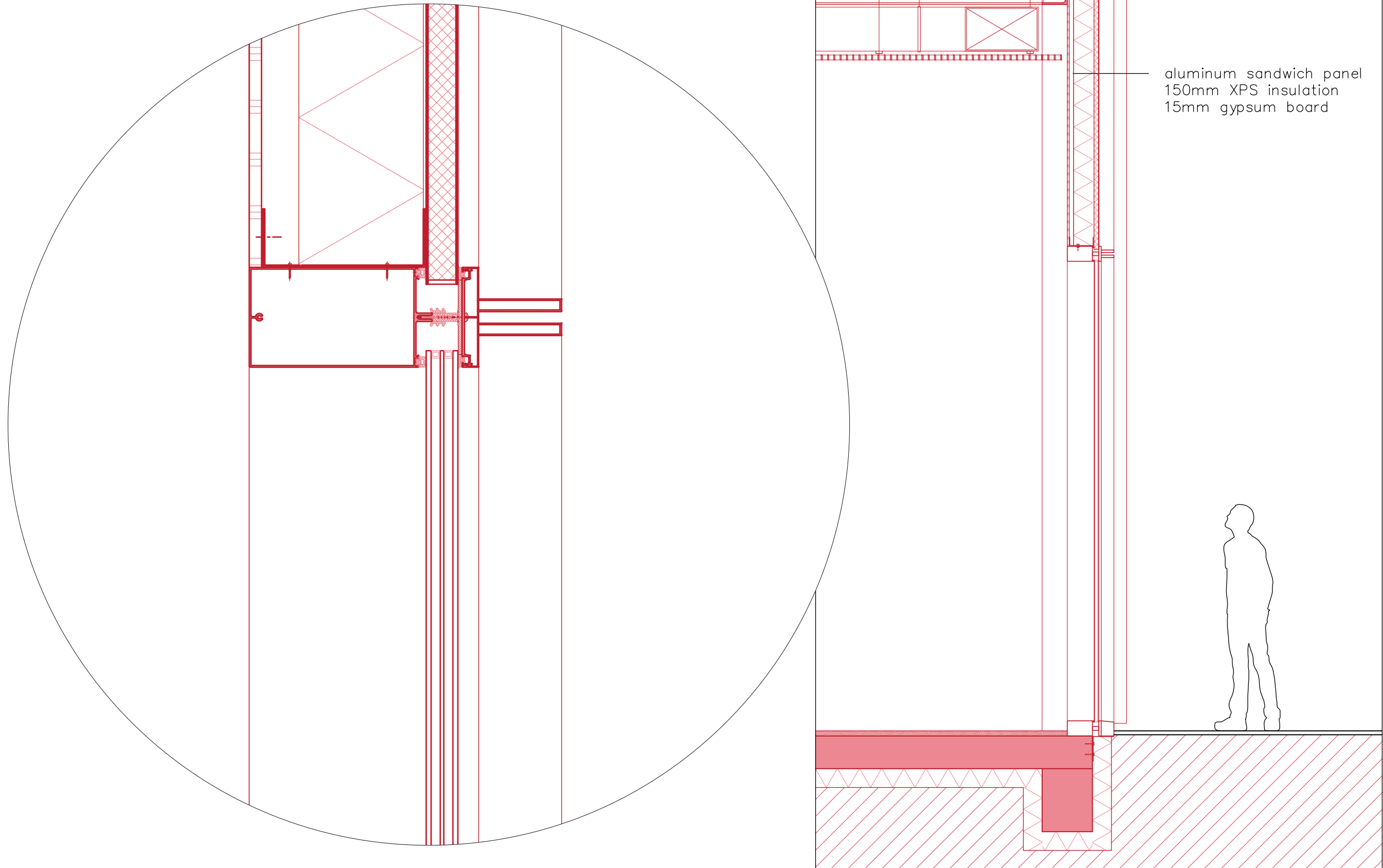


the front facade





facade fragment 1:20 (scaled to 1:33) and detail 1:5





THANK YOU



architecture tutors / Sam de Vocht / Daniel Rosbottom / Susanne Pietsch / Jurjen Zeinstra

building technology tutor / Matthijs Klooster

research tutor / Amy Thomas / Susanne Pietsch