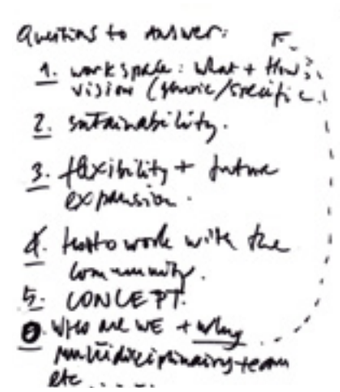
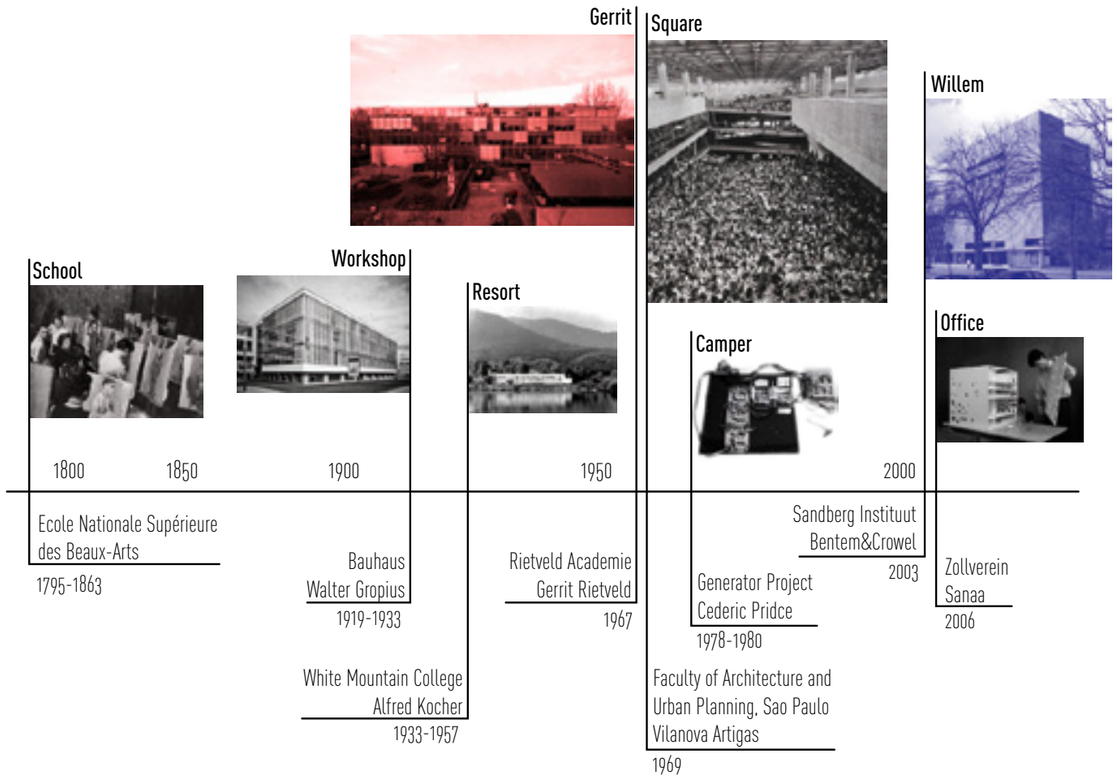
FEDLEV'S DESIGN FOR THE NEW GERRIT+WILLEM

GERRIT, WILLEM AND US.

The future of an art school is a much more hybrid than the nowadays closed department structure. Therefore, we want to develop a social and inspiring place where people can meet, develop their work, exchange ideas and get feedbacks. By rethinking the position of the departments, adding a series of new public and hybrid functions in the buildings, and making the ground floor of the whole complex a new and improved social space we want to turn G&W into a new art academy.

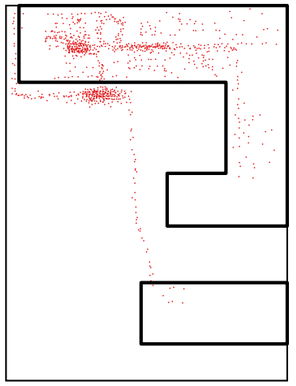
FedLev, januari 2012





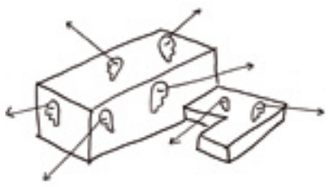
THE PRESENT SITUATION AND THE ASSIGNMENT

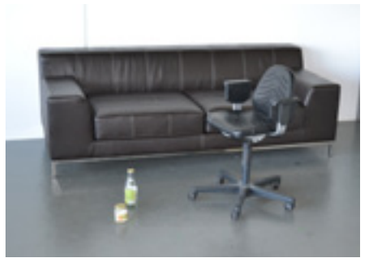
The development of the art school building runs parallel with the development of art education.
Developing the new building raises questions about the present and future relationship between Gerrit Rietveld Academie and Sandberg Institute.
FedLev sees the academy as a collection of autonomous tribes. What those tribes have in common is the emphasis they put in their education on process and concept. This emphasis on concept brings the need to work interdisciplinary. This need should be supported by the building. If you look upon nowadays use of the building it is obvious that this use is very much back-to-back towards other departments.
Today the canteen and the 'balcony' at the entrance are functioning as a collective meeting point.
These spaces are not comfortable enough to sit down, exchange ideas, present work, give or receive feedback or debate with fellow students and/or teachers.
FedLev feels the need to use the academy in more collective ways for the daily users but also for visitors and guests from outside.



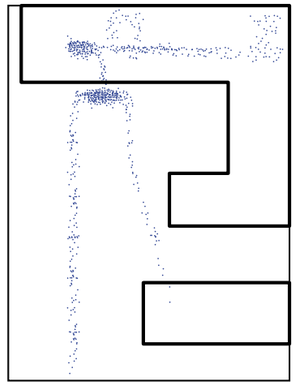
Luca
student of Graphic Design

Maze
student at VAV



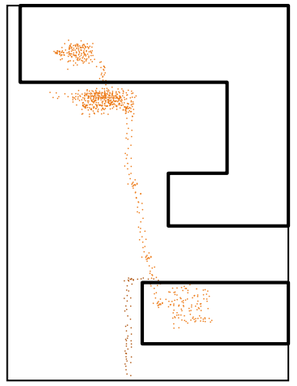


The number of students of the Rietveld and Sandberg in the next years



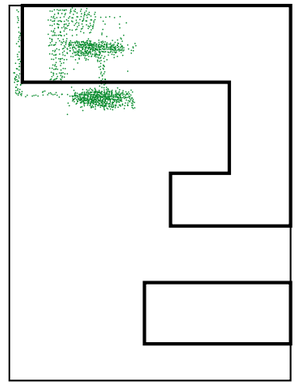
Sandra
student at Architectural Design

Paulien
student at Sandberg Instituut

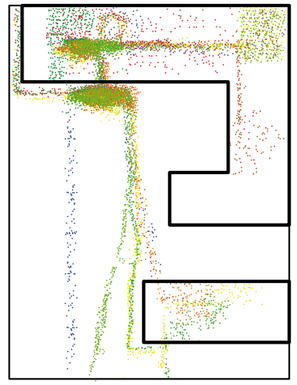


Maze
teacher at VAV

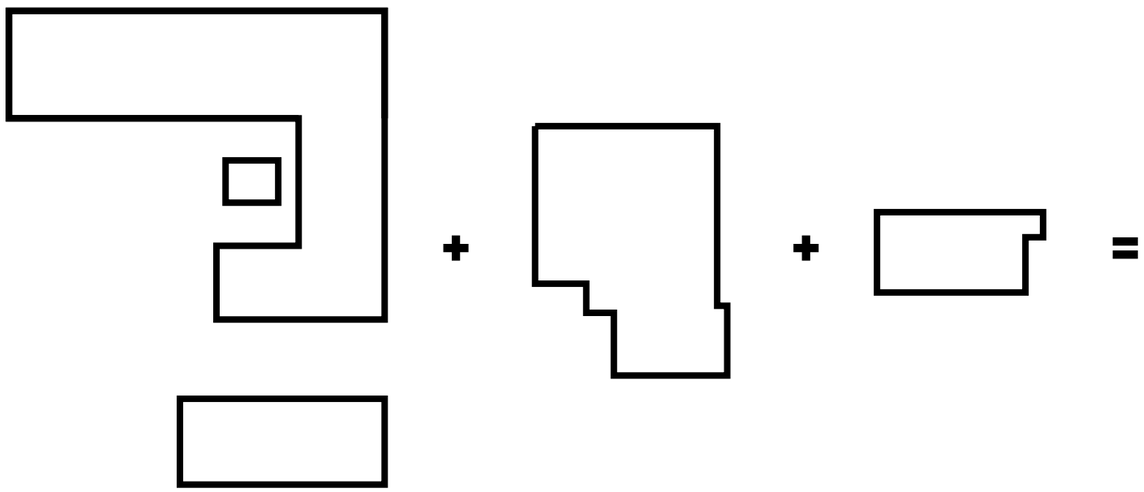
Paulien
teacher at Architectural Design



Paulien
student at VAV



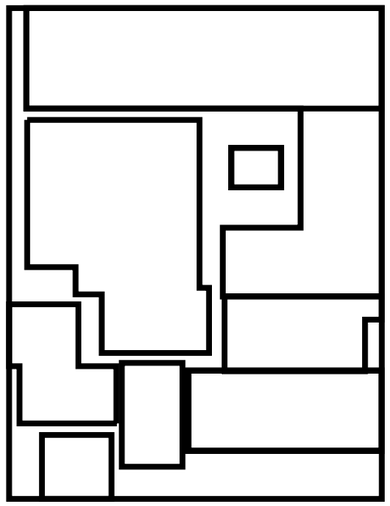
different users



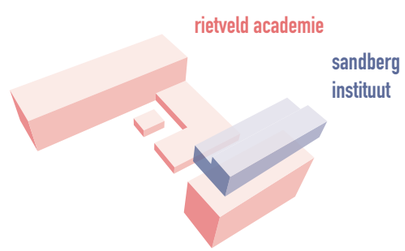
Fredrik Roeskestraat
9279m² + 6099m²

Generaal Vetterstraat
2185 m²

Kouwgomballen Fabriek
702 m²



18265m²



THE URBAN SITUATION

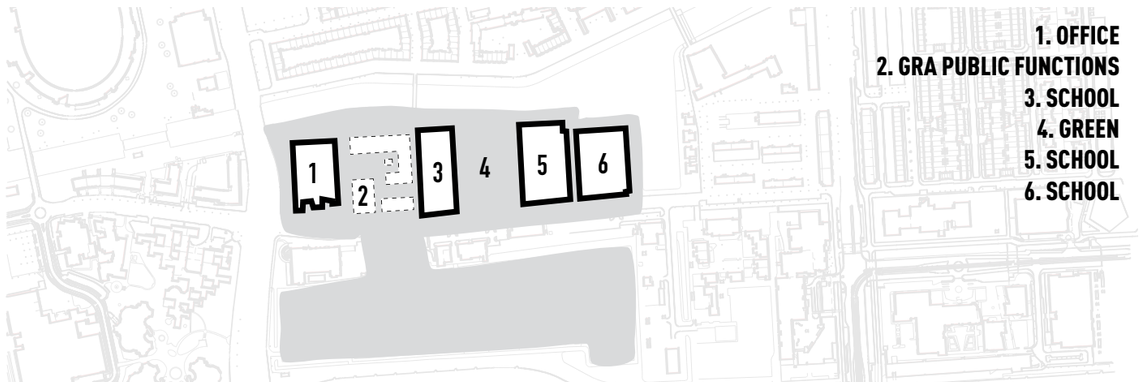
Head of Zuidas:
offices + housing + amusement

Central aerea: transport hub
offices + housing in high density

Roeskestraat: green route
education + culture + housing

Gerrit Rietveld Academie and Sandberg Institute are located North-West on the Zuid-as.
Within the urban master plan this side of the Zuid-as is seen as a green area designated with educational, housing and cultural functions
Our design strives to connect and combine these ingredients on the plot.
The boundaries of the plot are conceived as the outline of the building.
FedLev's newly designed volume and re arrangements will combine the three buildings into one.
The main entrance and information desk of GRA and SI will be on the corner of the Benthem & Crouwel building.
This way it becomes visually present and easy excusable from the North and the South side of the plot.
The Gerrit Rietveld building, the Benthem & Crouwel building and FedLev's building will be accessible in multiple ways.
Sandberg Institute has an extra independent entrance to be able

Adding public functions to the Zuidas

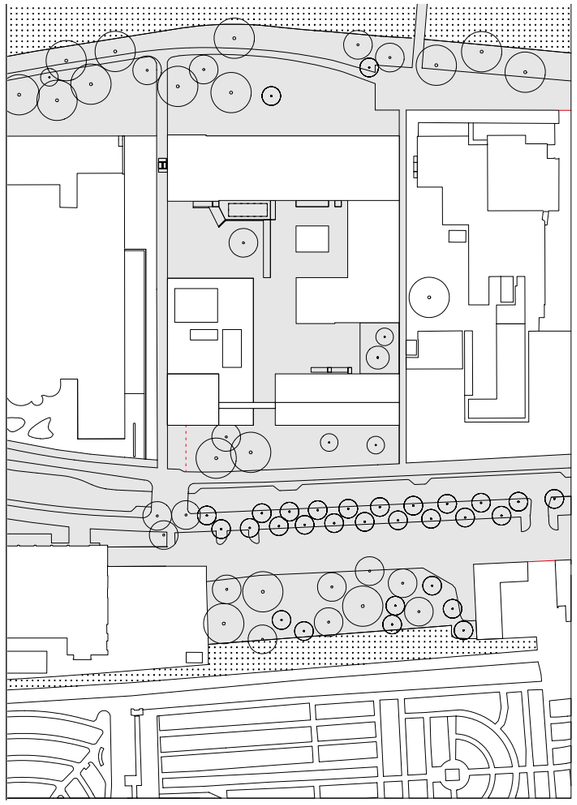


1. OFFICE
2. GRA PUBLIC FUNCTIONS
3. SCHOOL
4. GREEN
5. SCHOOL
6. SCHOOL

to excess the Institute 24 hours.
The collective space and functions will be brought to the ground to increase collectivity and make the ground floor more public.
Extra openings and entrances are foreseen to connect the inside with the outside.
The façade of the workshop can be completely folded away whereby the surrounding yard becomes assembly-yard for students of all departments.

The new academy will create an easily accessible public program at the westside of the Zuid-as.
There will be an auditorium, with perfect conditions for public lecturing, an exposition space a library and in the centre of the plot a good-food restaurant.
A generous roof-top terrace on FedLev's building gives possibilities to public open-air screenings as a borderless stage to the outside world.
The sight on the monumental Rietveld building will be framed by the cantilever of the newly added volume.

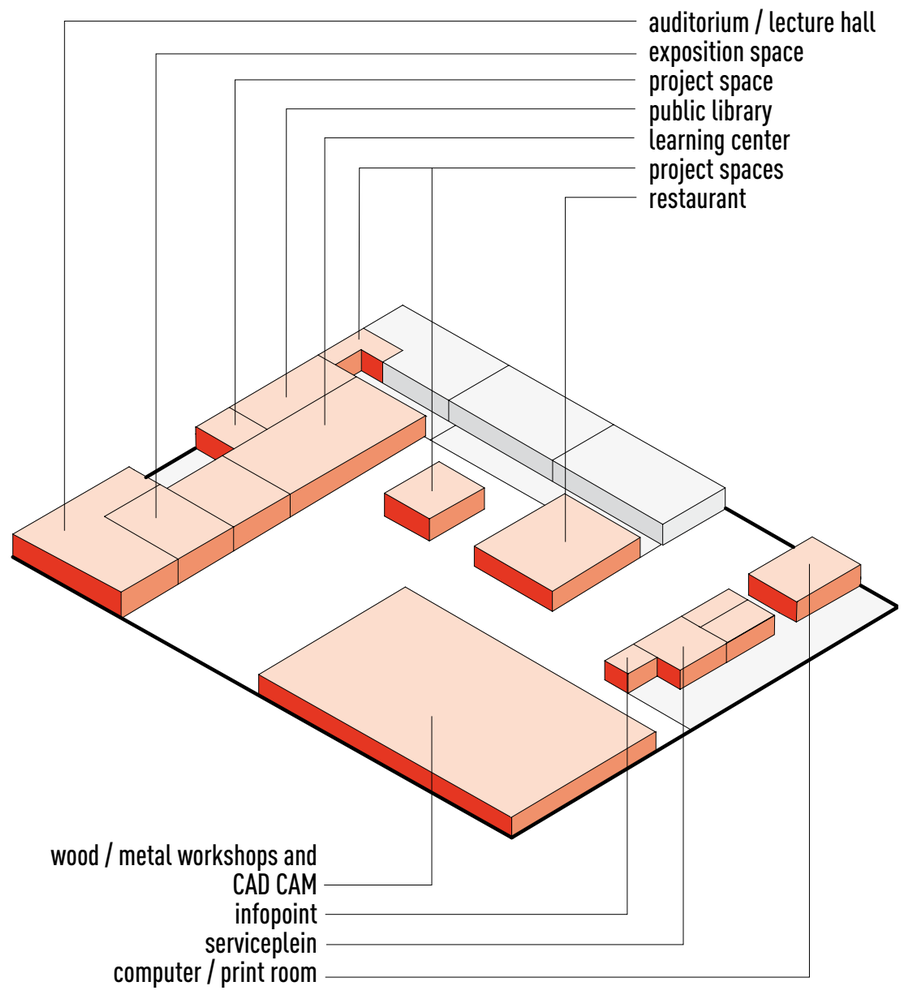
The green façade on the South-side of FedLev's building will be the first green façade on the Zuid-as.
It functions as an ecology for insects, butterflies and on the East- and Westside as an environment for bats and sparrows.



Public and green space in the Fredrik Roeskestraat

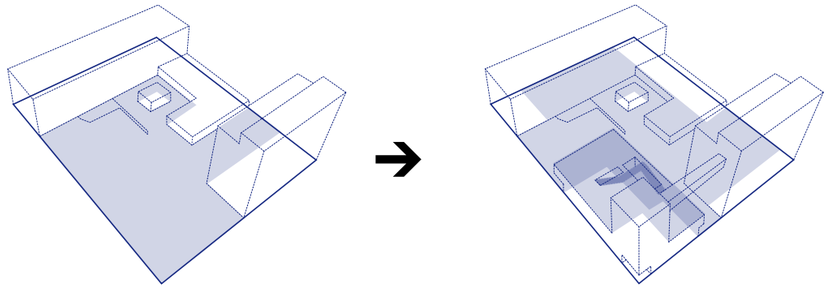
MULTIDISCIPLINARY SPACE

The groundfloor is programmed with collective functions, so that a scenario is manipulated. The building frames the public space with a cantilever and patio.
The newe building is actually surrounded with public space.



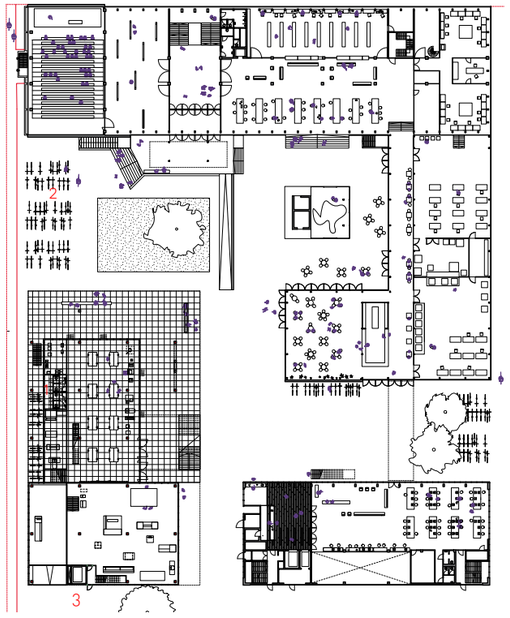
Collective and public functions on the ground floor

COLLECTIVE SPACE

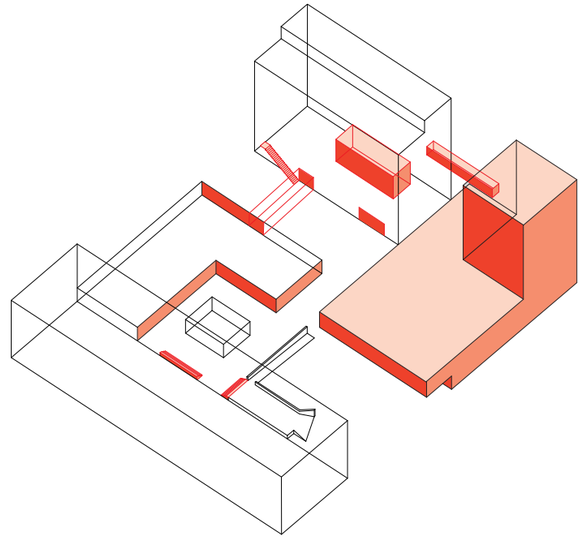


= 5593 M² OF COLLECTIVE SPACE

Diversity of working spaces in the firs floor



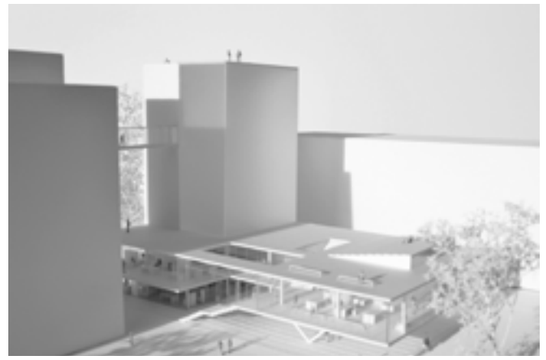
Plan of the ground floor
1. containers
2. bikes
3. goods elevator and delivery



The new facilities and added functions

Multiple layer public space seen from the Benthem building

THE BUILDING

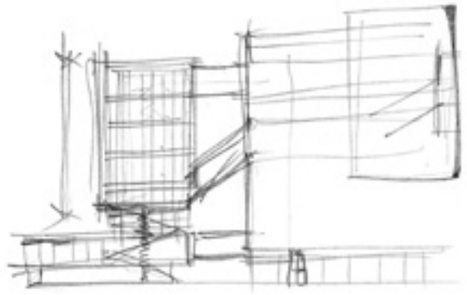


The FedLev building consists of a platform, a tower and a bridge Studio spaces for Gerrit Rietveld Academie are situated on the first floor (platform).
Studio spaces for Sandberg Institute are situated in the tower.
Two stories underneath the building provide 104 parking places and a storage room accessible from within the building.
On the ground floor underneath the platform a wood and metal and Cad/ Cam workshop are situated combined with an assemblage hall. The façade of the hall can completely be folded away.
A public stair gives access to a roof terrace where an open-air cinema/ theater is situated.
Further investigation will examine the possibilities to create a biological garden and greenhouse on the roof.
Sandberg Institute can be accessed from the roof terrace and the bridge from Benthem & Crouwel. An elevator on the south-side of the FedLev building gives the possibility to transport big items into the tower. It also gives excess from the street to the film/ photo studio on the top floor.
The studio has it's own entrance which makes it possible to rent it out during the weekend or holidays.
With sunlight in mind we kept the FedLev building low on the north side to have as much as possible sunshine on the ground floor in the yard. On the roof terrace there is also direct sun throughout the day.
The workspace in the tower and the platform is conceived as an

Section AA'

Façade West

open floor plan and has a height of four meters. Fixed inner walls are scarce, flexibility is high.
The platform gives room to 2 project rooms and one shared education facility (GRA & SI).
The educational facility can function as a lecture space and visually links the lower workshop and the upper tower to each other.
Several precise interventions are made in the existing to optimize the use of the building; wider staircase along the research centre.

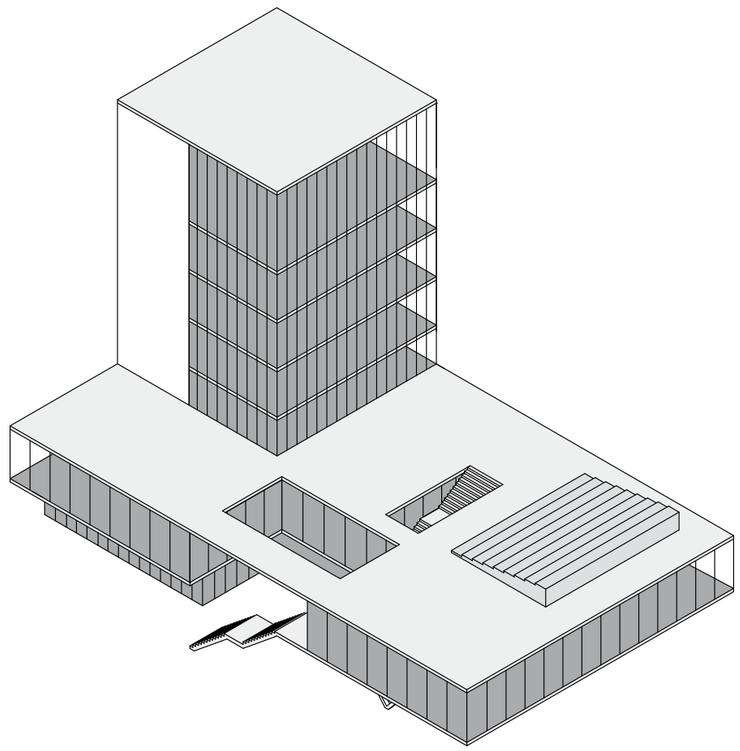


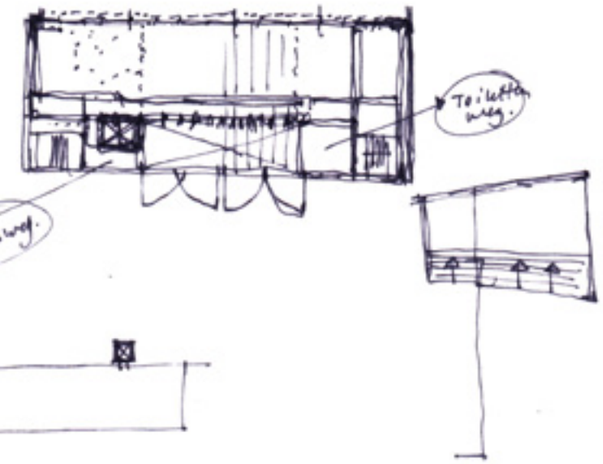
The cantilever on the in/outdoor assemblage hall

View of the façade on the Roeskestraat

A façade at the restaurant which can be opened.
Removing half a floor on the ground floor of Benthem & Crouwel building to guarantee sunlight in the cellar and maximize the usability.
An added staircase (the Benthem balcony) at the Benthem & Crouwel façade to make an independent access to a 24 hours project room.
Feasibility of the building is foreseen through rationalization of the building process.
The building is completely prefabricated.

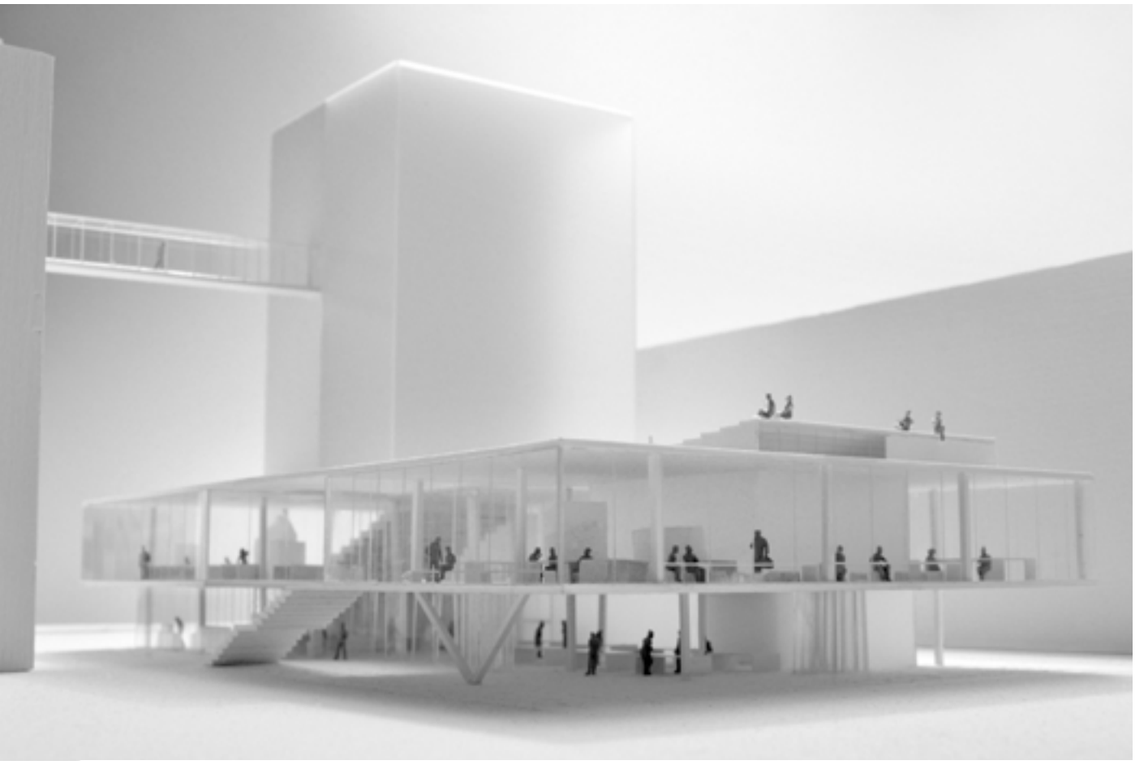
The tower construction is made of wood and has column free working spaces of 12x16 meters.
The structure of the platform is an applied grid of 7.8x7.8 meter executed as a hybrid wooden floor and a steel beam construction.
The cantilever along the east of the building is executed as an overhanging beam.
On the north side the cantilever is executed as a girder.
The façade along the Fred. Roeskestraat and partly the east-west façade is mainly closed to preserve acoustic

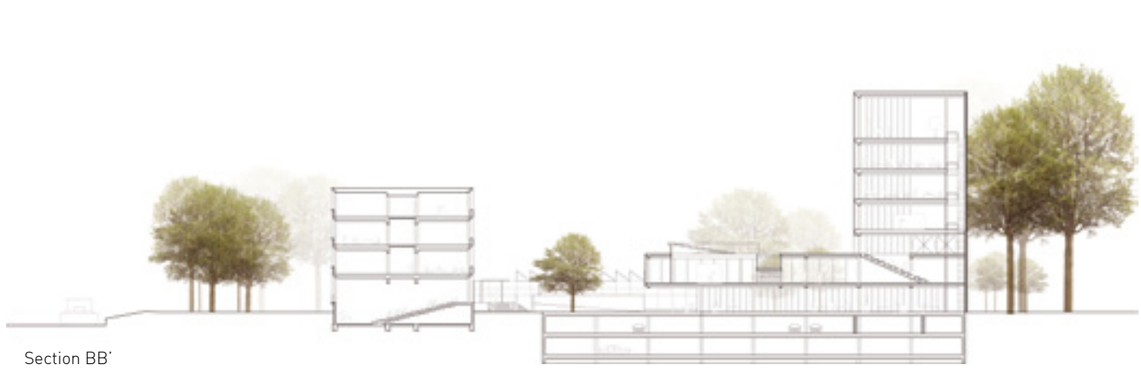




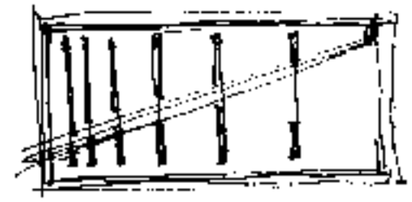
quality inside.
The west part of the façade is made out of corrugated aluminum elements and covered with ivy.
The rest of the tower's façade is executed as a wooden curtain wall with aluminum click-profile.
On the ground floor underneath the platform the façade will be glass in frames.
Underneath the building and on top of the platform, 60x60 cm concrete tiles will be used.
There will be little finishing in the building .

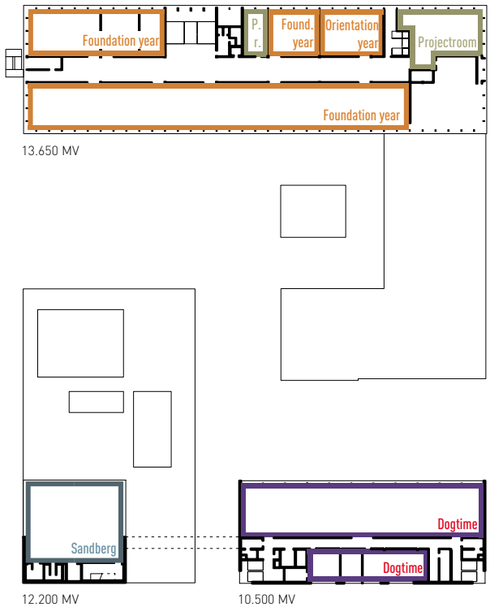
The rooftop with the public steps



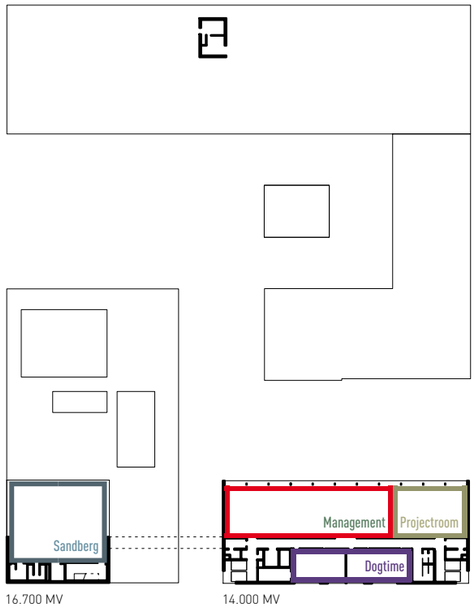


Section BB'





LEVEL +3



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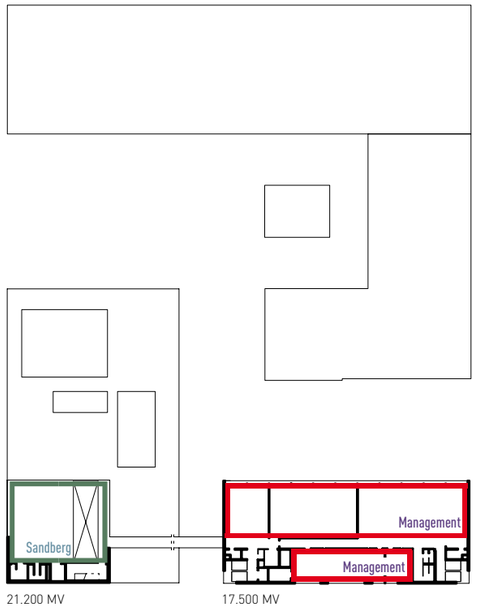
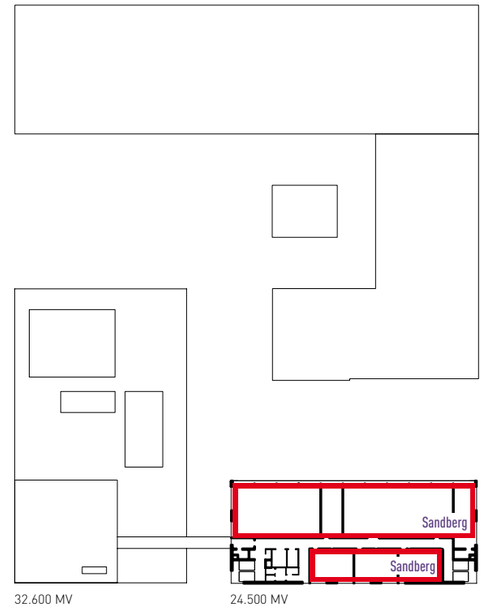


LEVEL ++5



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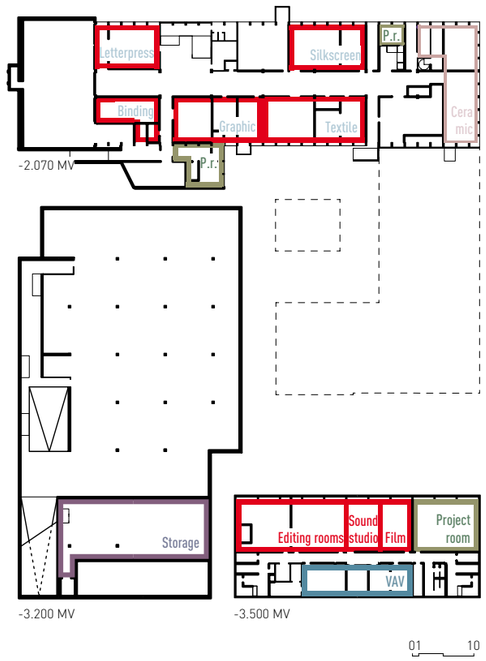
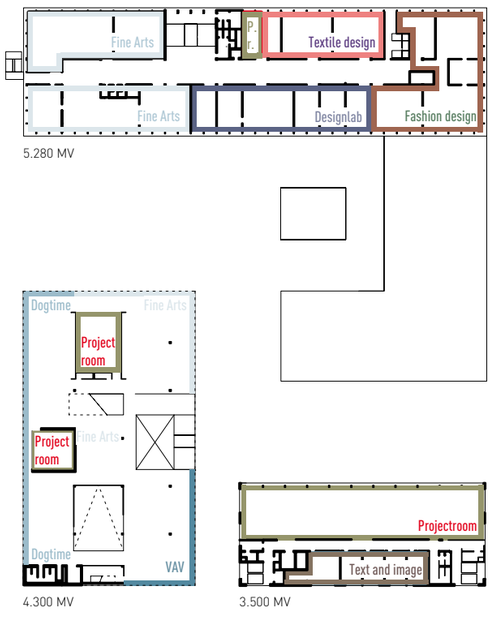
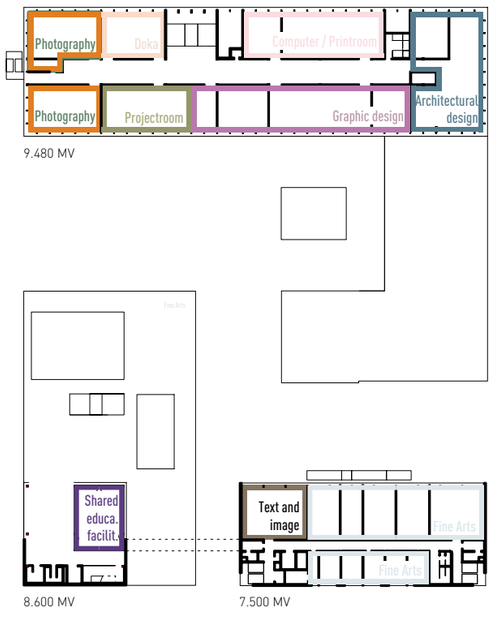


LEVEL -1

LEVEL 0



LEVEL +1



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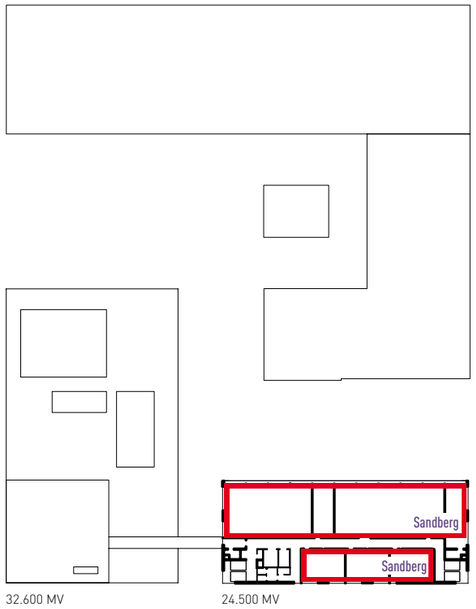


LEVEL +7

Façade South

FILMSTUDIO SANDBERG INSTITUUT

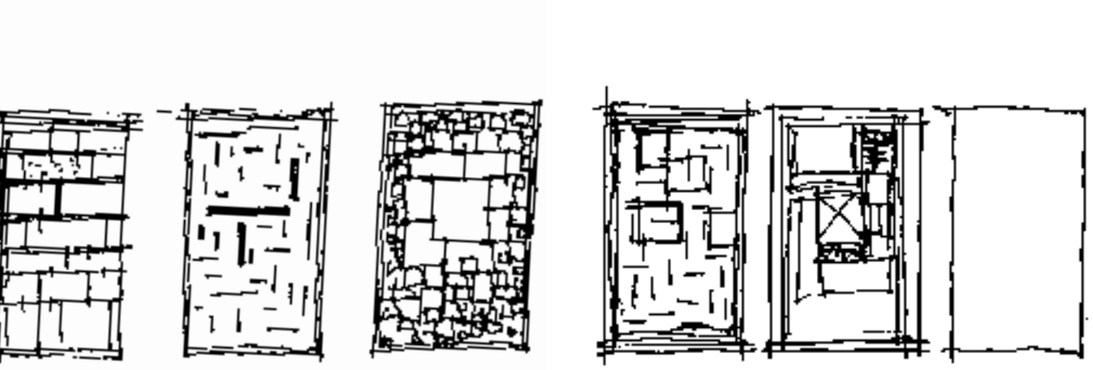
ROOFTOP

ATELIERS AND PROJECT SPACES

ASSEMBLAGE HALL AND **WORKSHOPS**

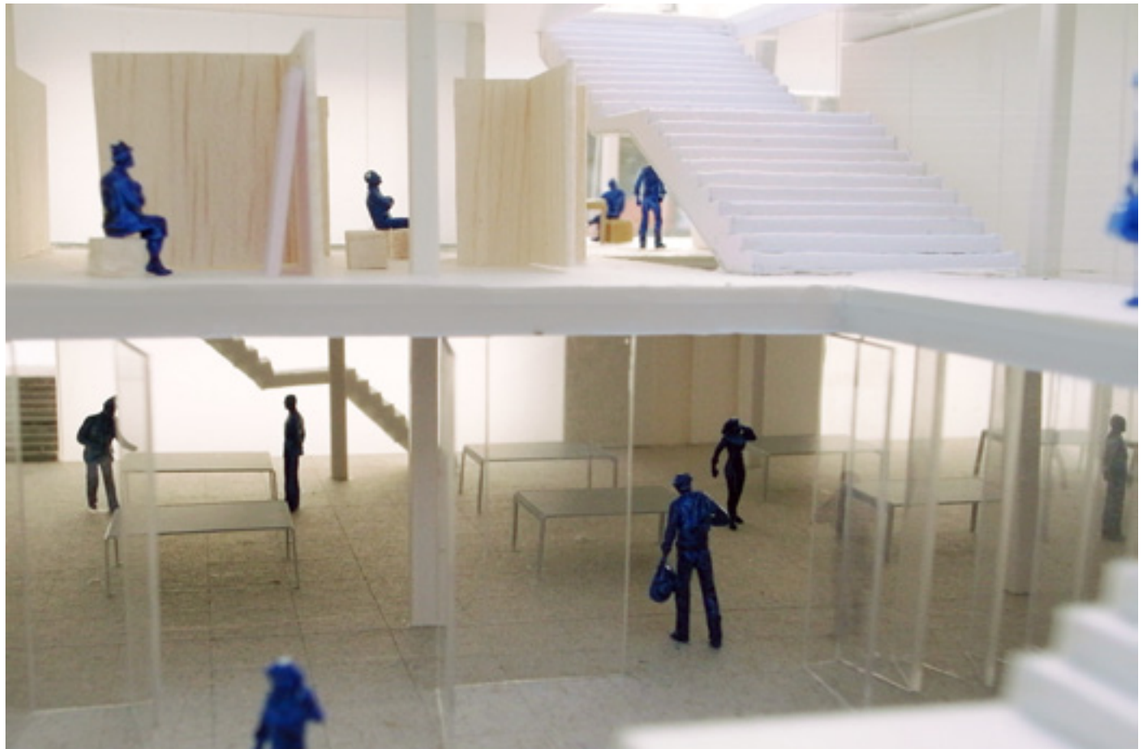
INTERIORS

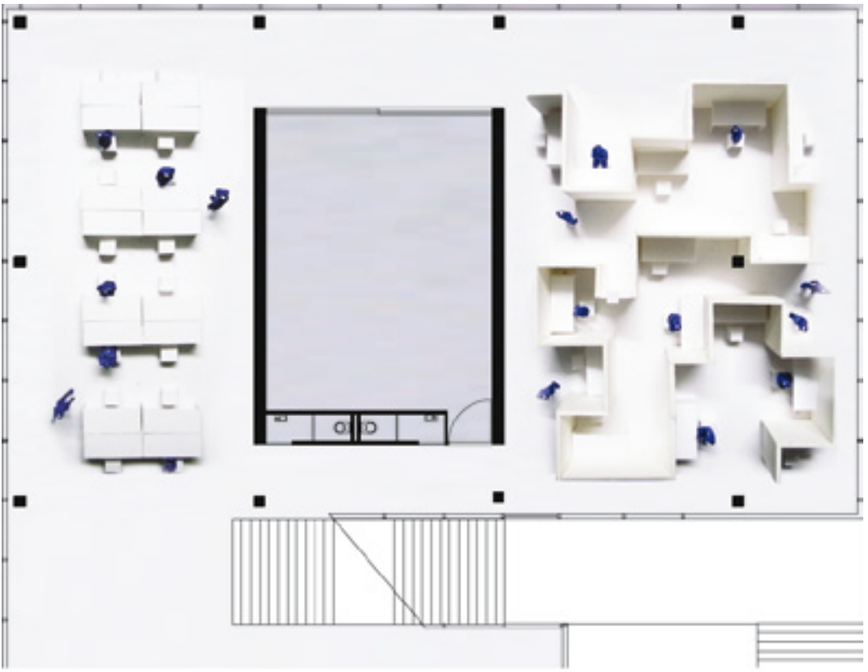
Studio spaces will mainly rule the interior of the FedLev building for students who are likely dependent to work in a studio.
The platform on the first floor gives room to the bachelors fine-arts (ca.400m²), Dogtime (ca.400m²) and VAV (ca.200m²).
The tower will be mainly studio spaces for Sandberg Institute students.
In the present situation a lot of space is not used regularly in the buildings of GRA.
Part of the interior concept is to monitor the individual use of a student by the department.
If a student doesn't use the studio space, he or she trades the studio space for a desk-workplace to do research. This is where the project room comes handy for occasional usage of studio space. The coördinator of the department decides who is in need of a studio space. This way the studio space can be occupied by frequent users.
The interior will foresee in creating spaces with different qualities.



Possible disposition of the furniture on the first floow, following diverse needs

Examples are a coffee corner, hang out space with a bench, computer corner, small flexible working space, individual workspace with a desk or a shelf (in combination with a shared studio), an individual or shred wall for drawings or paintings. A private locker will function as a small storage facility for students working in or outside the academy. This way walls, and specific tables can be used in a collective manner.





Possible disposition of the furniture on the first floow, following diverse needs

Possible disposition of the furniture on the first floow, following diverse needs

Specific walls are taken out in the Rietveld building to open up parts of a department. Departments maintain individual spaces on the north side of the building and gain a light spacious floor on the west side. This way a substantial amount of m^2 is generated (approx. $250m^2$ per floor).

The opening of the stairs to the rooftop.

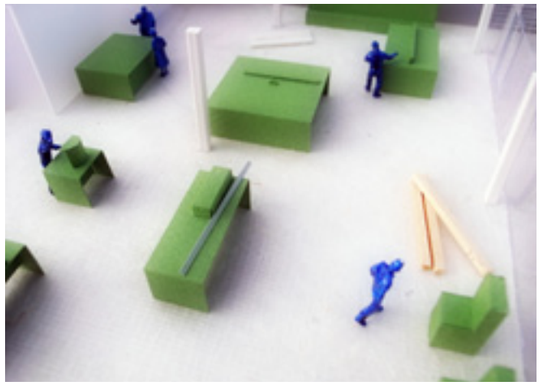
Possible disposition of the furniture on the first floow, following diverse needs

The workshop with the external assemblage hall on the ground floor

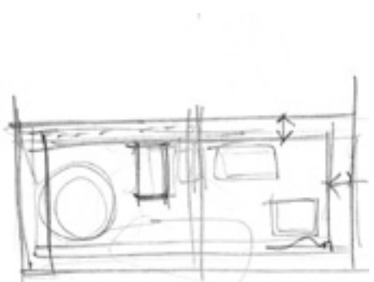
Possible disposition of the furniture on the first floow, following diverse needs

One of the project roms on the first floor

The machinery in the wood workshop on the ground floor



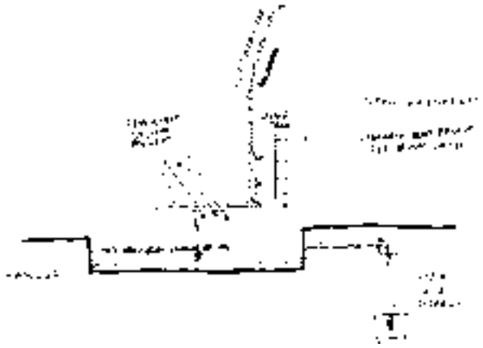
Views of different kind of spaces in the new building.



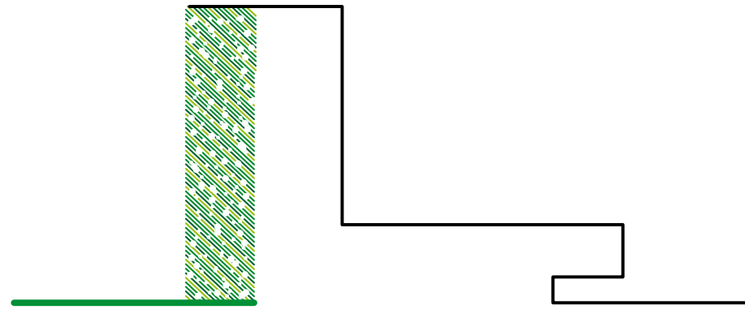
The staircase to the public rooftop

SUSTAINABILITY

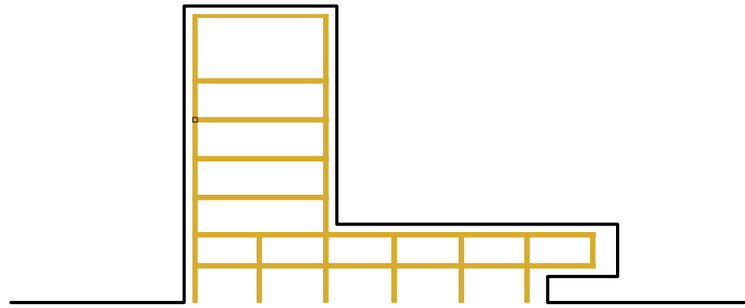
The concept of the design:
developing a multi disciplinary building is a main concept for the sustainability of the complex.
The emphasis on the quality of the collective use of the building will increase the engagement of the user with it's surrounding.
Also in the design process and execution of the building this engagement will be pushed.
FedLev sees the open source process as a tool to strengthen engagement.
Opening up the academy and it's premises will add quality for urban life.
On an architectural level better use of the existing m2 is foreseen.
The present use is critically mapped and re-programmed according to needs and use of the space. The minimal interventions in the Benthem building add to a better usability.
FedLev want's the new building to be realized using low-tech solutions.
This means minimum amount of



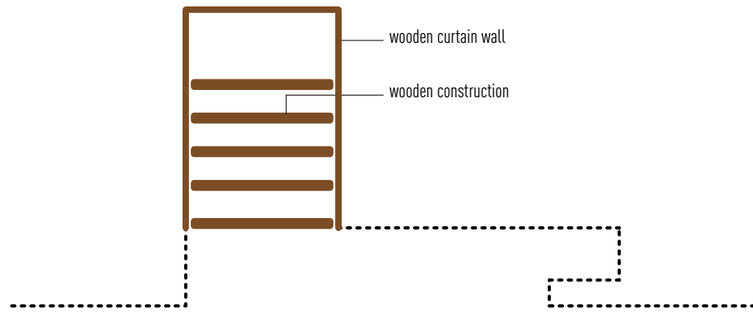
installations for climate control whereby a certain fluctuation in temperature is accepted.
The initial temperature in the atelier and workshop space is set on approximately 16 degrees.
Heating will be integrated in a Fermacell floor and ventilation can be obtained by opening a window in the façade of the tower.
The low-rise is climatized by a combination of airco + natural ventilation.
Cooling will be reduced by the closed façade on the south-side.
The greenhouse curtains along the inner façade of the tower shape a chimney over three stories, draining the heated air



green façade - Adding to biodiversity



prefabricated building



wooden tower

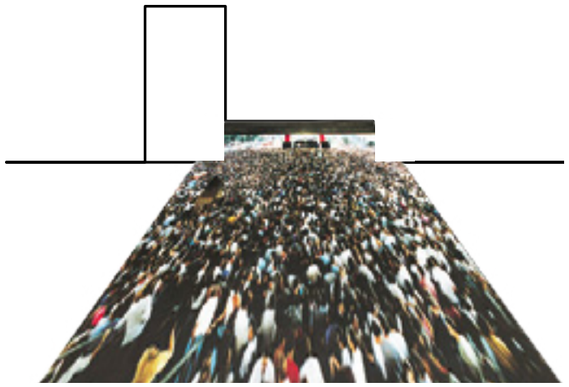
through ventilation drills in the roof to the outside.
FedLev proposes the central installation to be a heat and cold storage completed with a pallet heater to cover the peak load.
Further investigation will examine the possibilities to connect the existing buildings to the same system making the implementation costs of the installation profitable.
Also the possibility to reuse the produced heat of the oven in the glass department will be investigated.
Rainwater on top of the roof and terrace will be stored under the building and used within a grey water system.

The construction of the tower will be out of sustainable wood. Floors are executed in cross laminated wooden floor elements by Finnforest.
The wooden curtain-wall façade of the tower is integrated with the construction, minimizing the use of material and creating a 12 x16 meters column free space.

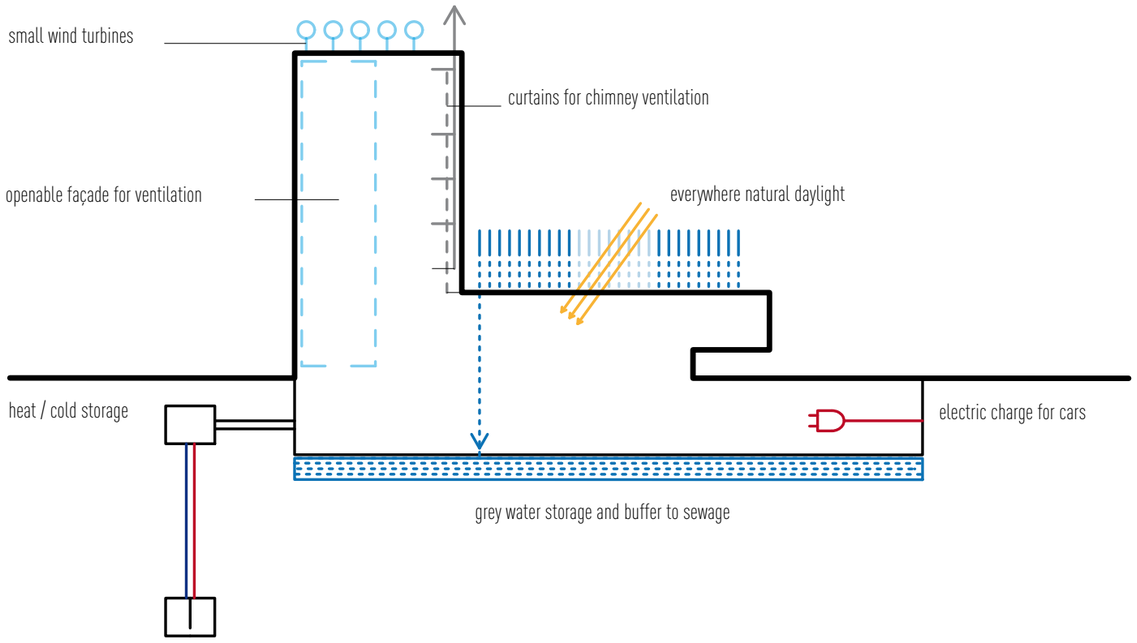
The lower volume of the FedLev building will be executed with wooden floors and steel columns. The building and it's cantilever extension is prefabricated.
The tower is executed as a volume with maximum flexibility.

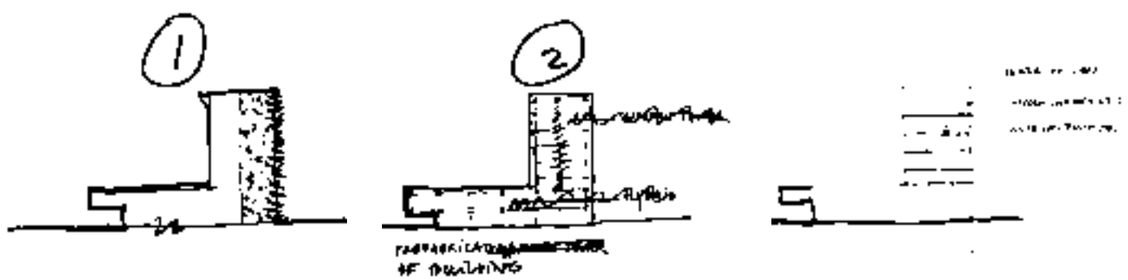
The deaf south façade, an oversized shaft and independent access make housing and office destinies easily possible. The low rise part can be split off the high rise, making future use as a multi tenant building possible.

Garbage is collected for reuse.
Close to the canteen is a compost heap.
Under the wood and metal workshop is extra storage for reusable materials easily accessible from the workshop.
The façade along the F. Roeskestraat is convinced as a green ivy-facade, adding to the biodiversity of the urban surrounding.



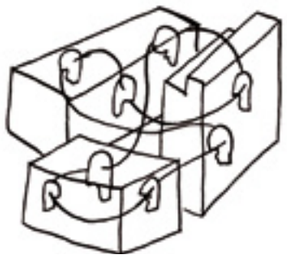
Adding public spaces and functions to the city





OPEN SOURCE PROCESS

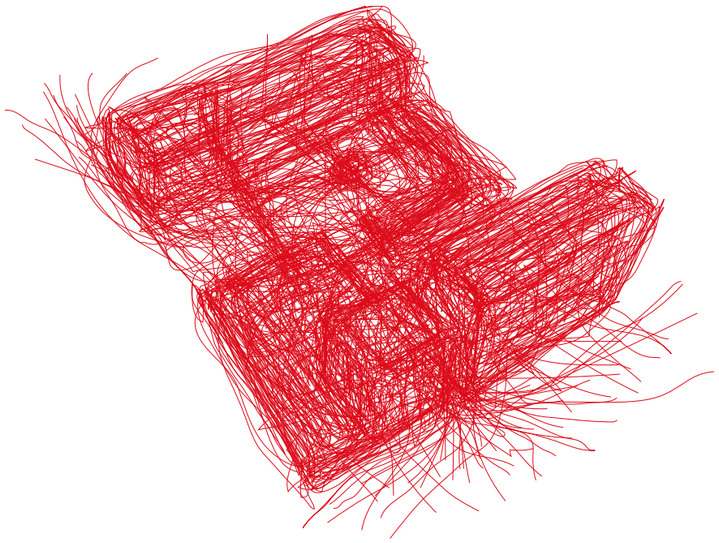
An essential principal for FedLev is working with an open source method.
This way we the new academy becomes a building with multi authorship. Expertise, wishes and different identities in the community will be reflected on to final composition.
We strive to bring GRA and SI together in one academy without losing their own identity. Students, teachers, management team and employees of the GRA and SI are asked to get involved using their expertise and know-how together with FedLev's vision. This way the process and future use can be integrated in the curriculum.



To be able to take full advantage out of an open source method we want to create and maintain a digital and an analogue platform. The digital platform will function as a blog and forum which is updated regularly.
An analogue platform would be a workspace within the academy where we can develop the final design and keep in contact with the present users of the building.
The involvement of the user could be part of the curriculum and their expertise can be communicated in the following ways:

Mapping the wishes and needs.
We want to interview every head and at least one student of the departments.

Creating involvement.
With several workshops we ask the community of GRA and SI react on issues like public space, the Façade, organization and routing of the building and of course the possibilities of sustainability.



The art academy is shaped by its users.

Gathering present expertise.
FedLev will approach specific students, teachers, employees and alumni to collaborate on the new academy. This way our idea of multi authorship can be developed.

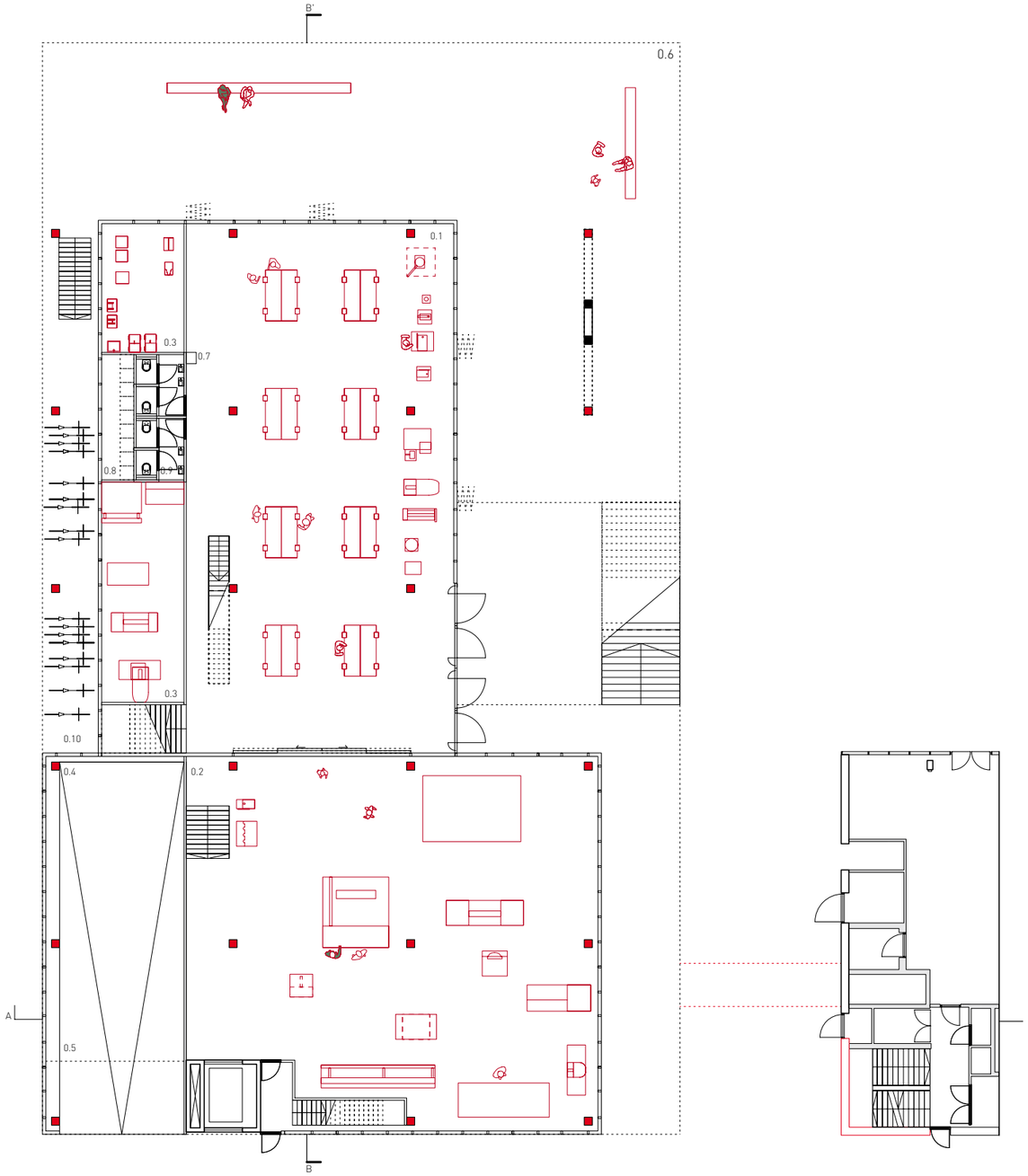
Board of advise.
We founded a Board of advise to be able to mirror our ideas. At the moment this board consists of: Eric Slothouwer (Historical knowledge Rietveld building), Henri Snel (Architectural expertise), Bert Taken (Philosopher and Art Academy expert), Bart Vissers (Expert technical workshops and facilities). In the next phase we would like to expand our board of advise and have regular meetings.

Developing at the academy.
FedLev would like to have a workspace within the academy where we can develop our final design and keep in contact with

the present users of the building.
We will be working at fixed times in a transparent and easy accessible working space.
A model 1:50 can function as a mediator to stage ideas, reenact and test different scenario's and special solutions in dialogue with with those who have specific interest in taking part of the development.

FedLev functions as a multi-disciplinary cooperation which is founded by **Maze de Boer**, **Paulien Bremmer**, **Luca Carboni** and **Sandra Stanionyte**.
Every team member is able to make choices and give feedback on every aspect of the process.
The compilation of our team reflects our vision, therefor we see the possibility to add a team member during the when we feel that this is essential for the next phase.On an architectural level better use of the existing m^2 is foreseen. As in a process of de-fragmentation the nowadays use is critically looked upon and more intensively programmed. Minimal interventions in the Benthem building add to a better usability.

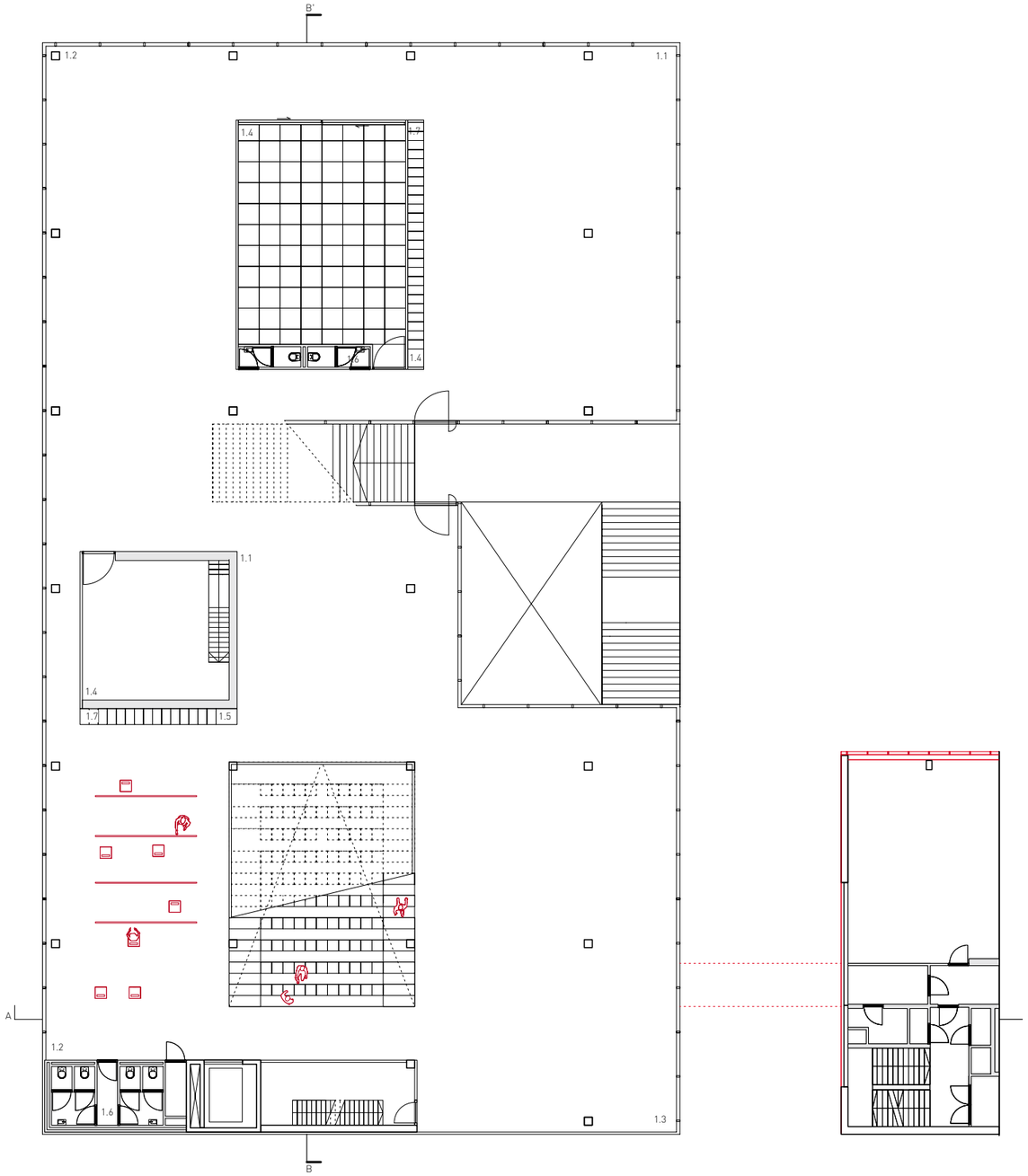
PLANS



level 00 / 0.000 MV (= level 00 Willem)

0.1 assemblage hall
0.2 wood workshop
0.3 metal workshop
0.4 cadcam workshop
0.5 assistants room
0.6 assemblage yard
0.7 coffee machine
0.8 containers
0.9 restroom
0.10 bikes parking

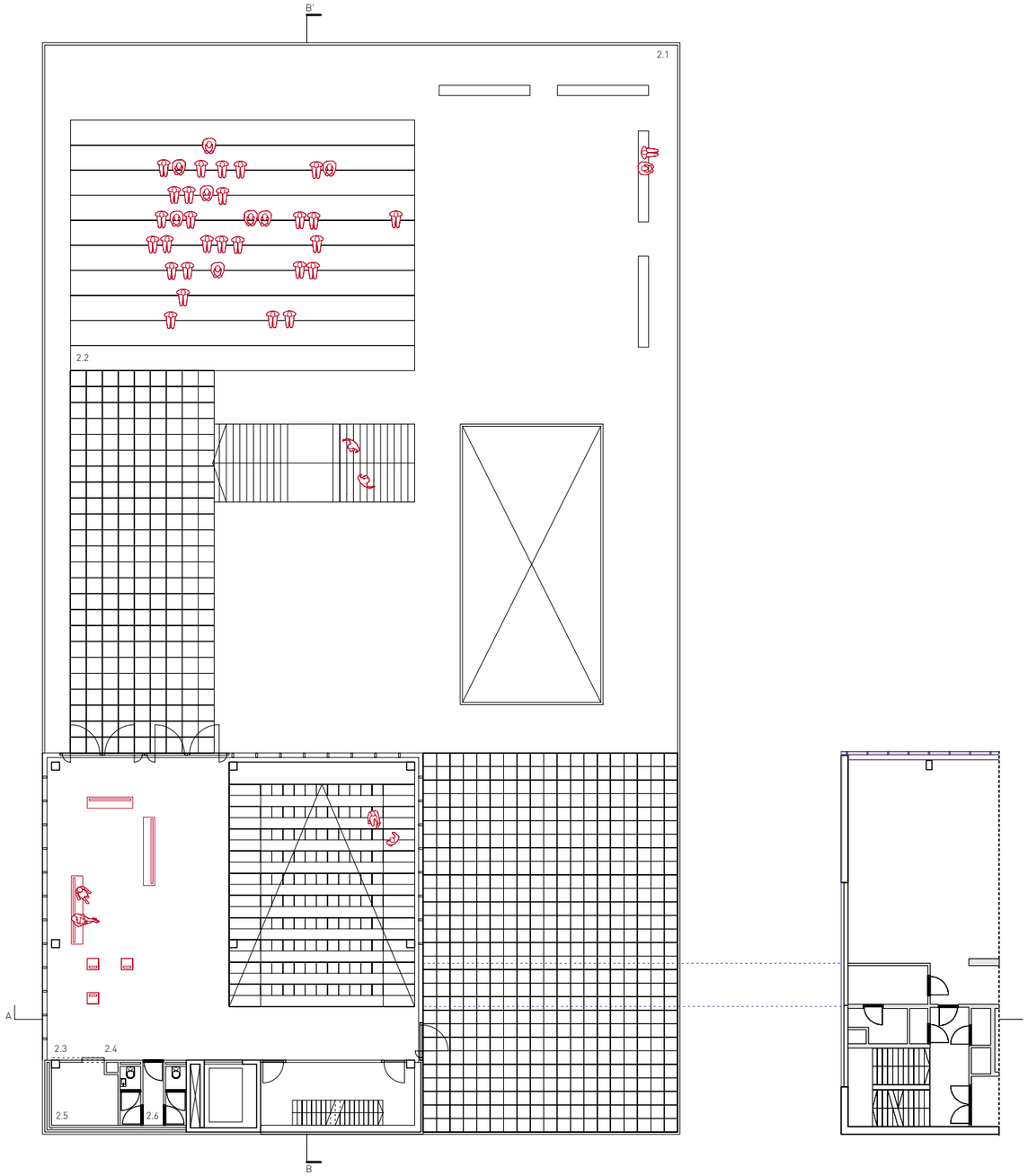
0 1 5 10



level 01 / 4.300 MV (= level 01 Willem)

1.1 department space - fine arts
1.2 department space - dogtime / with flexible interior
1.3 department space - VAV
1.4 projectroom
1.5 coffee machine
1.6 restroom
1.7 lockers

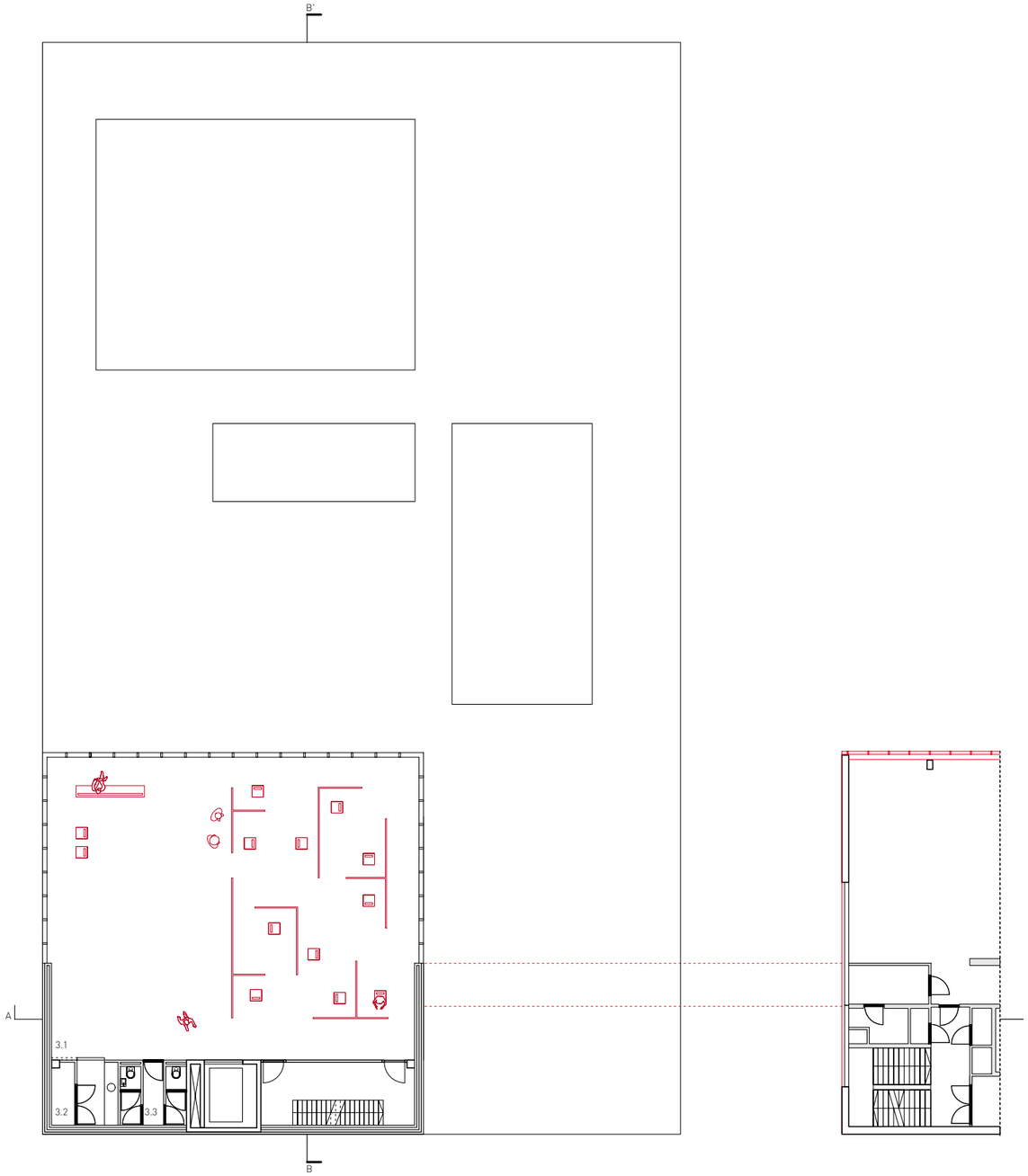
0 1 5 10



level 02 / 8.600 MV (= level 02 Willem)

2.1 roof terrace
2.2 outside auditorium
2.3 shared education facilities SI+GRA
2.4 coffee machine
2.5 storage
2.6 restroom

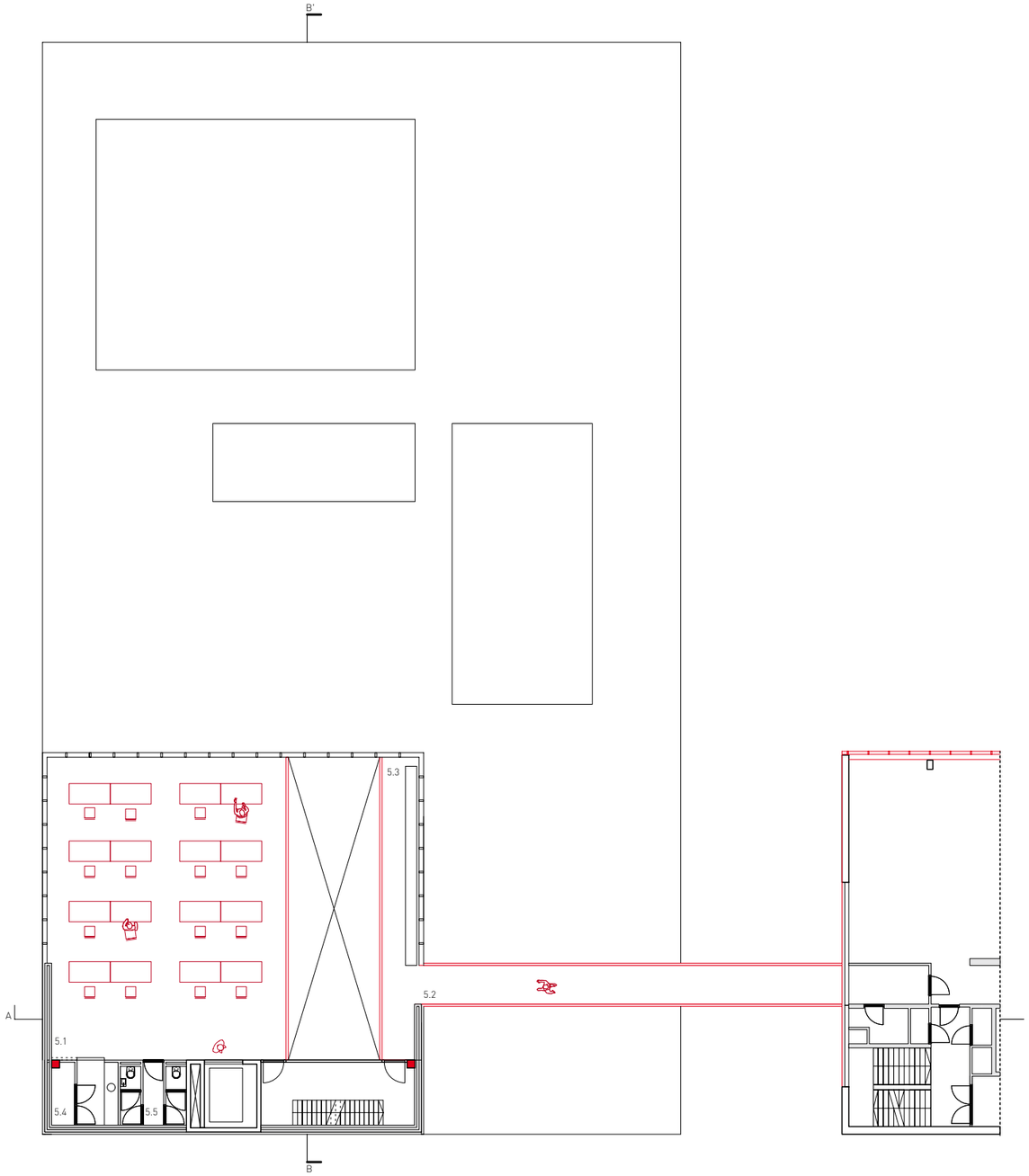
0 1 5 10



level 03 / 12.200 MV (= level 03 Willem) andlevel 04 / 16.700 MV (= level 04 Willem)

3.1 departments space - Sandberg Institut
3.2 storage + pantry
3.3 restroom

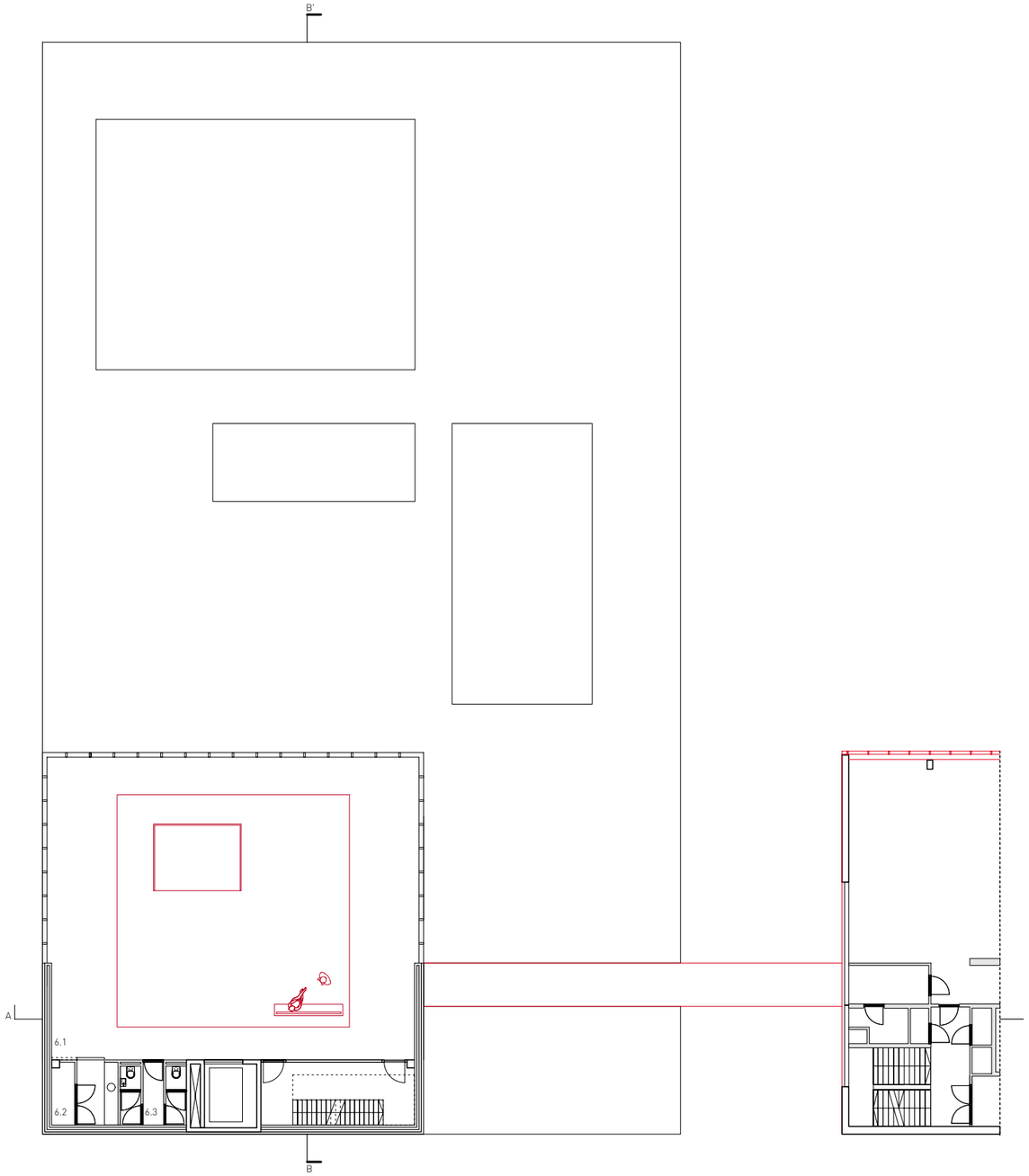
0 1 5 10



level 05 / 21.200 MV (= level 06 Willem)

5.1 departments space - Sandberg Institut
5.2 passerelle - access to the Benthem and Crouwel building
5.3 computer space
5.4 storage + pantry
5.5 restroom

0 1 5 10



level 06 / 25.700 MV (= level 07 Willem)

6.1 foto and film studio
6.2 storage + pantry
6.3 restroom

0 1 5 10

TEAM FEDLEV AT WORK