Mental Health Center Hembrug Revitalizing Hembrug, to revitalize society

Project Journal

Chair of Heritage and Architecture Faculty of Architecture and the Built Environment Delft University of Technology

Job van den Berg 4287762 16-04-20



"We can always see the original soul through the eyes, the eyes are the only things that never change"

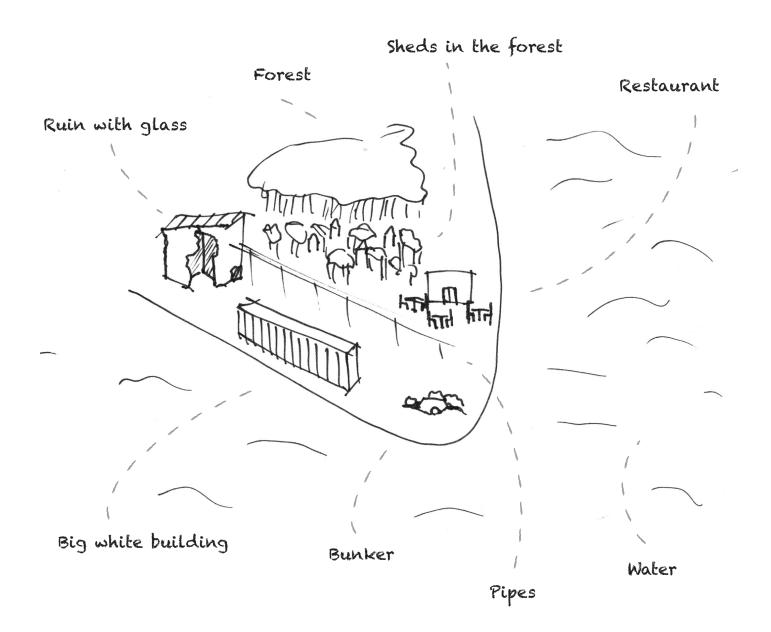
Dear reader,

This journal is a collection of my work and process that has been done during my graduation project 'Mental Health Center Hembrug. It's my personal diary, sketch, scrap and photo book. The highlights and all the ideas and roads that have been taken can be found in here. The book is designed as a travel journal with all the locations and events that have passed; not only in real life but also the destination my project went in my thoughts. I went crisscross throughout the Netherlands: Eindhoven, Maastricht, Tilburg, Utrecht and of course Amsterdam and Zaandam, did Pitches, workshops and presentations: P1, P2, P3, P2 'again' until my P4 and saw imaginary destination: Hotel Restaurant-Bar Hembrug, Shopping Mall Hembrug and my final destination Mental Health Centre Hembrug.

I wish you a lot of reading pleasure and I hoop you can also enjoy the journey I took the past year.

Job van den Berg

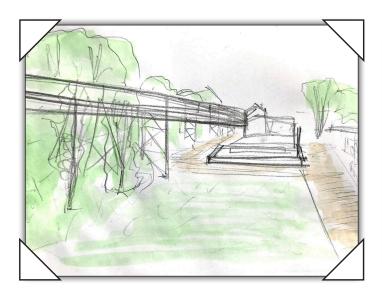
My memory of Hembrug



Visit to Hemburg

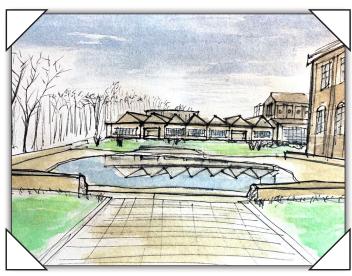
Summer 2018

Winter 2019









Abandoned Contrast My impression of Hembrug was a lot different then the first time. The first time I used "abandoned" as a word to describe the area. This because it felt like nature had taken up the buildings again. The border between buildings and green space felt at some places faded. But this time it was winter and the trees were bare. My eye was much more led to the buildings instead of the trees. Therefore I used the word "contrast", contrast between buildings and green and contrast between time of the year.

Section of Hembrug



Noordzeekanaal

Waterfront

Production buildings

Pipes construction

Sheds in the forrest

The 'Plofbos'

Workers housing

The Zaan

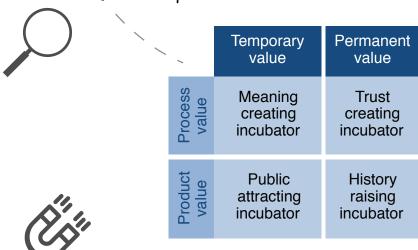
Incabators

In redevelopments where the outcome is not clear yet this incubator can give a perspective for the redevelopment. It shows the possibilities of the area and attracts other functions. These incubators are mostly temporary but they can also evolve and be part of the final redevelopment. The building works as a research object, a test case to help in the process of the redevelopment and give new insights and possibilities.

In some areas it can be hard to see the final result of a redevelopment. People don't actually know if the redeveloping will work and they are holding back. This incubator is the first building in de redevelopment and is example for the further development. Other project developers an investors get trust from this example and start there

redeveloping afterwards, I have to see

it to believe it.



Some areas have a strong historic

Most of the areas that have to be redeveloped are having trouble with a bad image and less activity. Public attracting incubators are independent of the area but can attract a certain group of people en let they become acquainted with the area. The building works as a magnet to other people, and more people leads to more activity, request and development

value. With the transformation of a building that is characteristic for this history, it creates this historic notion and the importance of the building and the area. The building is an example for the whole area and even after the redevelopment is still has a strong effect on the people. The building highlights the importance and the meaning of the area and the.

	Temporary value	Permanent value
Process value	Meaning creating (Glasgebou	Trust creating wincubator
Product value	Public attracti (Klokincubator	History Gebololog incubator

	Temporary value	Permanent value
Process value	Meaning creating incubator	Trust, greating ator
Product value	TUUIU	History raising reincubator

Strijp-S

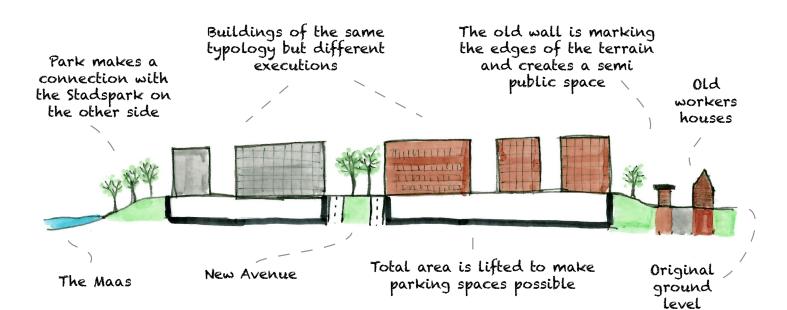
Building feels as a wall because of the glass brick ratio



Split trees Trademark West 8

No interaction on the ground floor

Ceramique



Visit to Hemburg





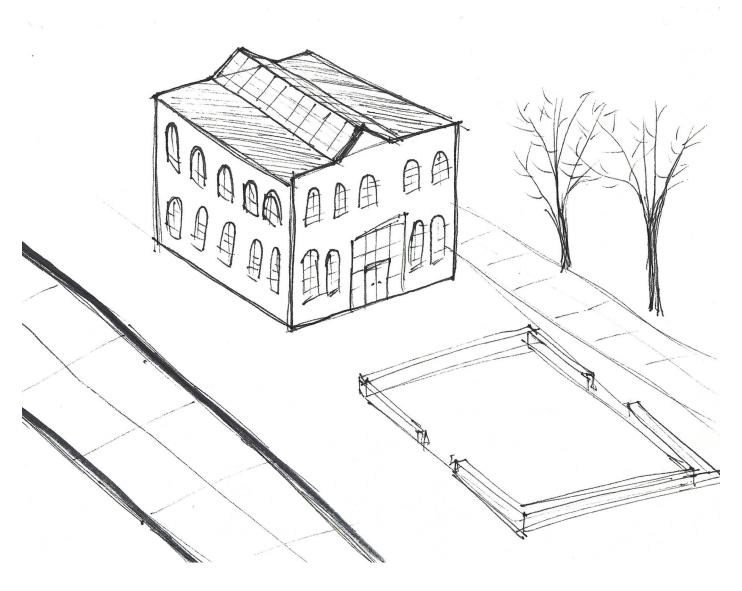




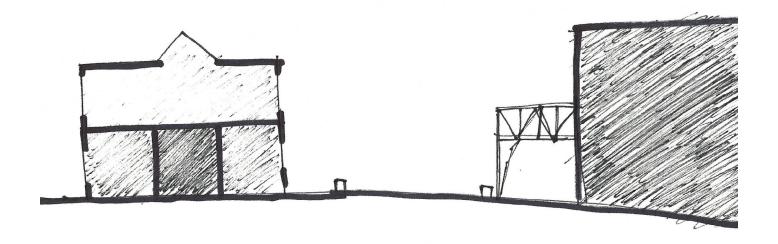




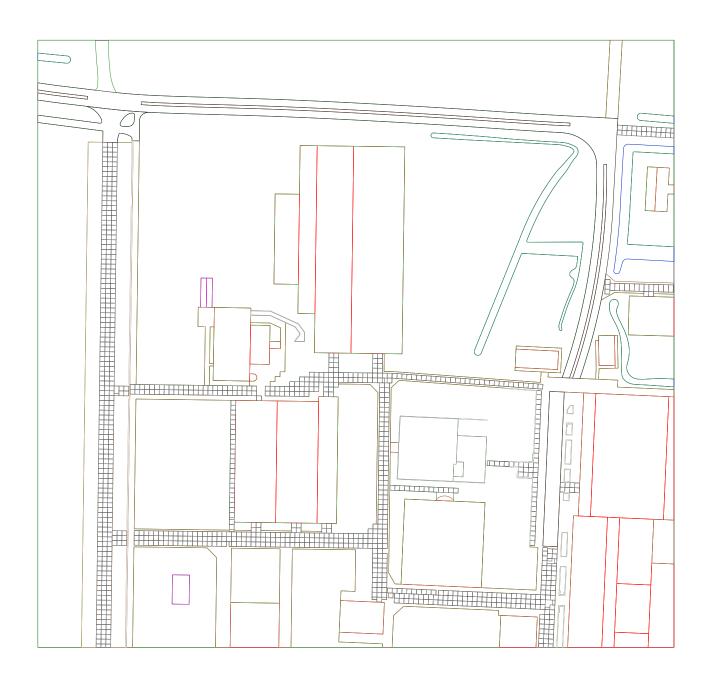
Ensemble characteristics



Space



DWG of Campus North



Wat is a campus?

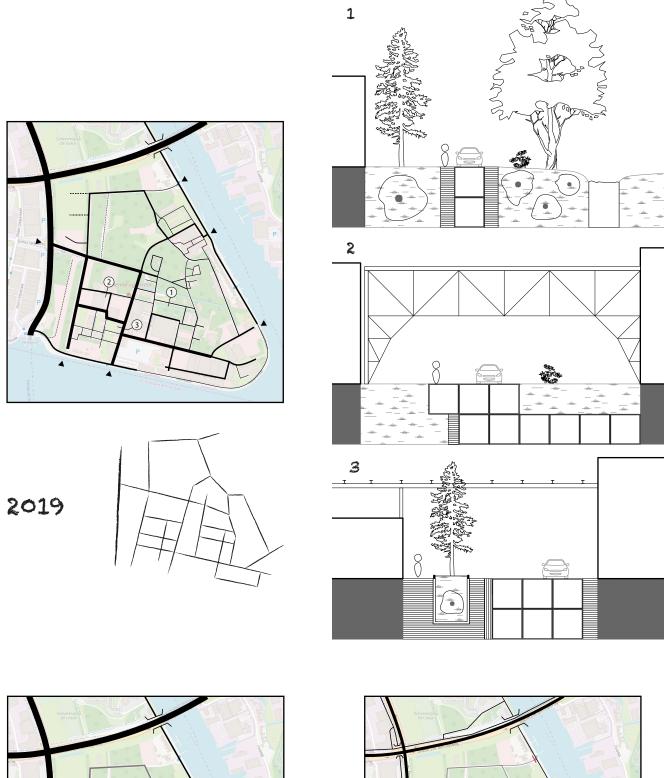
"The grounds and buildings of a university or college"

Latin (campus, campi)

- 1. campus
- 2. level field/surface
- 3. open space for battle/games
- 4. plain
- 5. scope
- 6. sea

Historical research on the infrastructure











Slow

First questions I had

- 1 What is the relationship between Campus North and the main axe?
- 2. How does Campus North work in a connection between the forest and the production area?

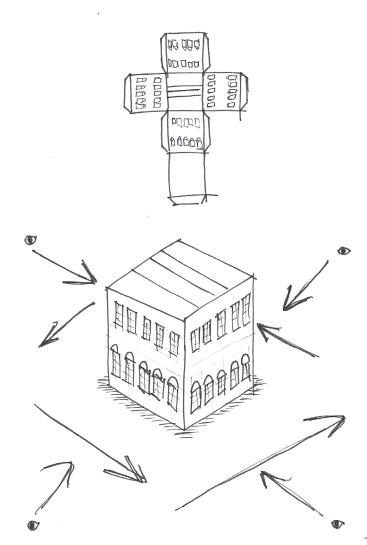
3. What is the influence of build or not build on the open square?

4. How does Campos North work as the new entrance of the area? (from back to front)

5. What was the production line and how did this relate with campus South?

6. How' to keep the monumental value?

7. What to do with the construction? (Use or reuse)



Blocks in the field

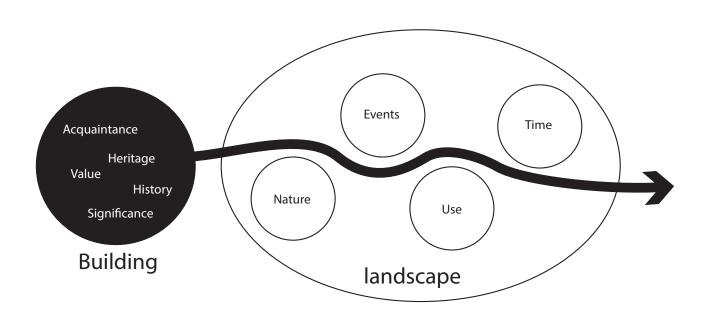
Characteristics



Research methods workshop

"A Building is not a static object its a continuous process that flows"

A Building as a process

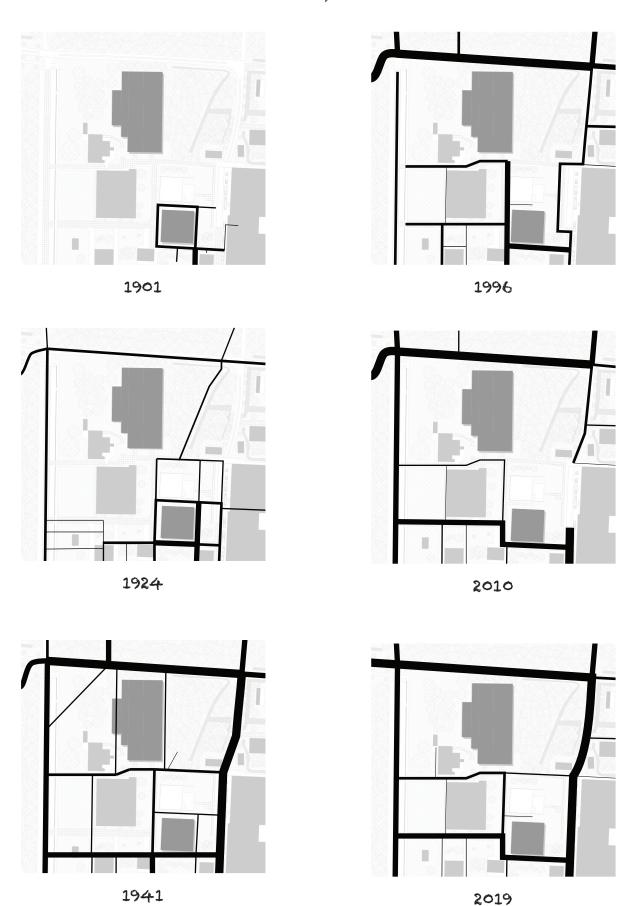


Landscape = Context

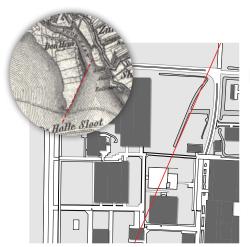
How can we as an architectd interfere is this process?

How can we chance the landscape and influence the flow?

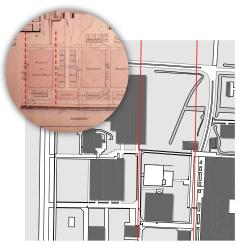
Timeline infrastructure



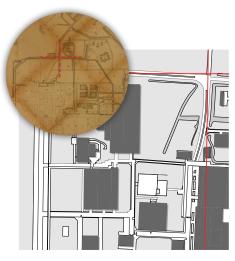
Axes



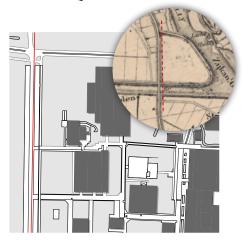
Original border



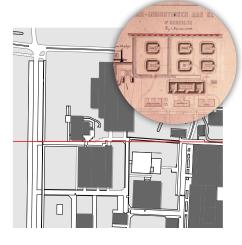
West border and main axis



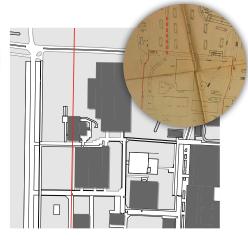
Main structure forest



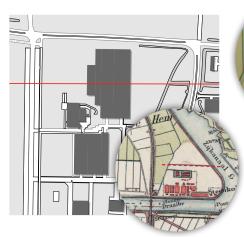
Old railroad



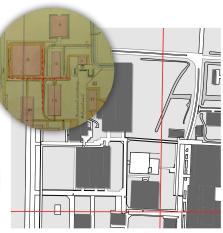
Water structure



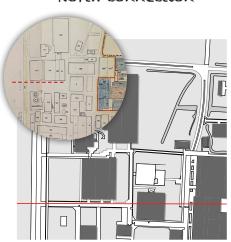
North connection



Polder structure

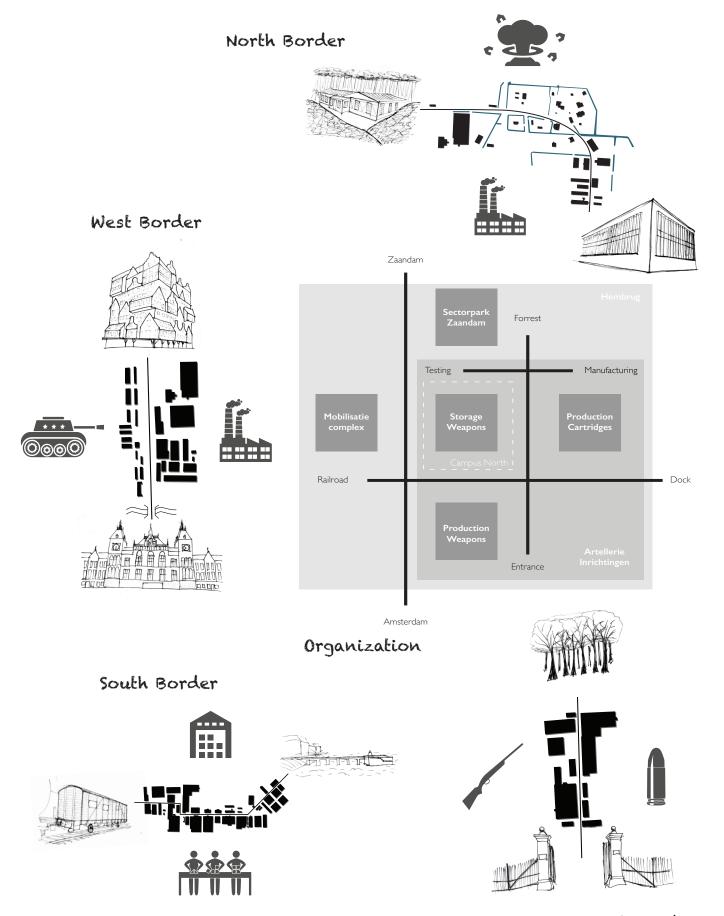


Main structure campus north



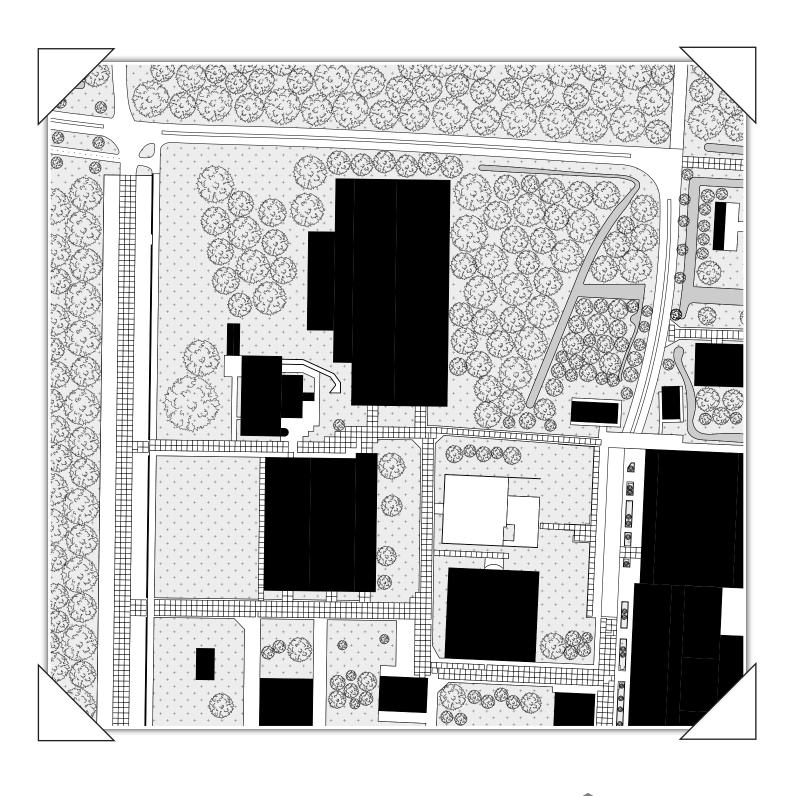
New monumental axis

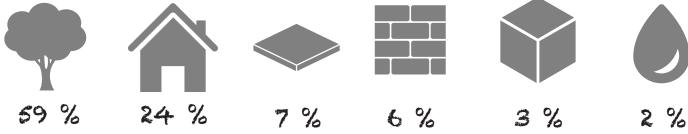
Borders



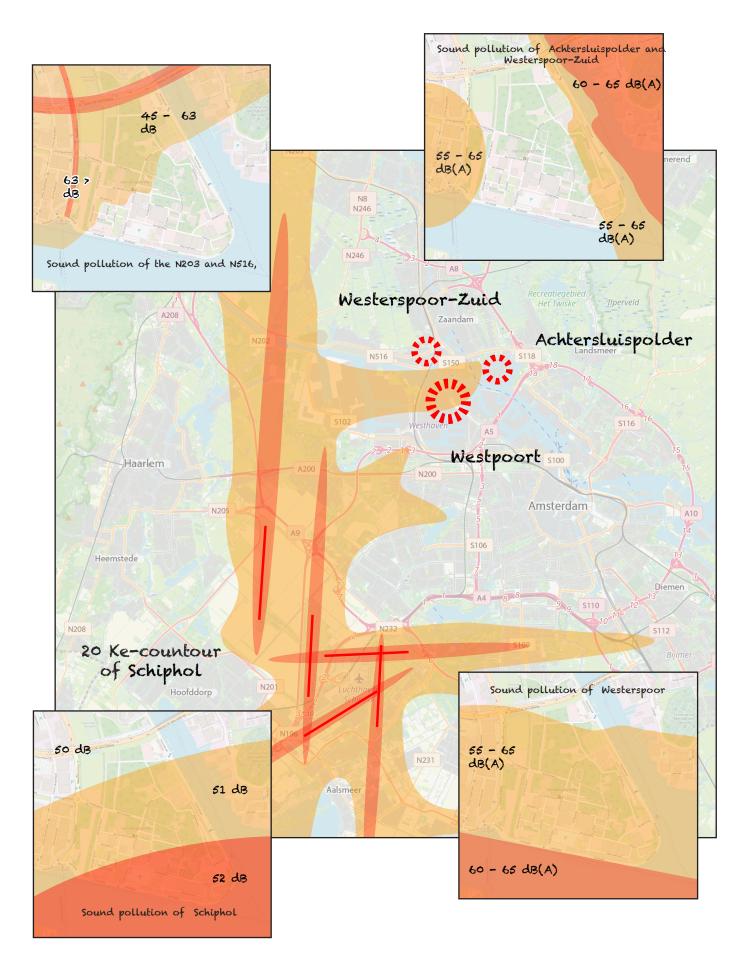
East Border

1:1000 map of the Site

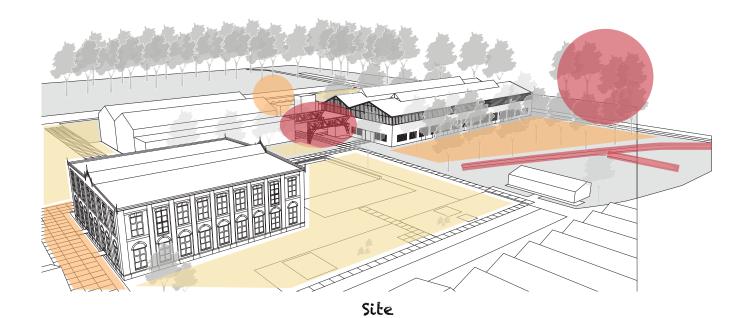


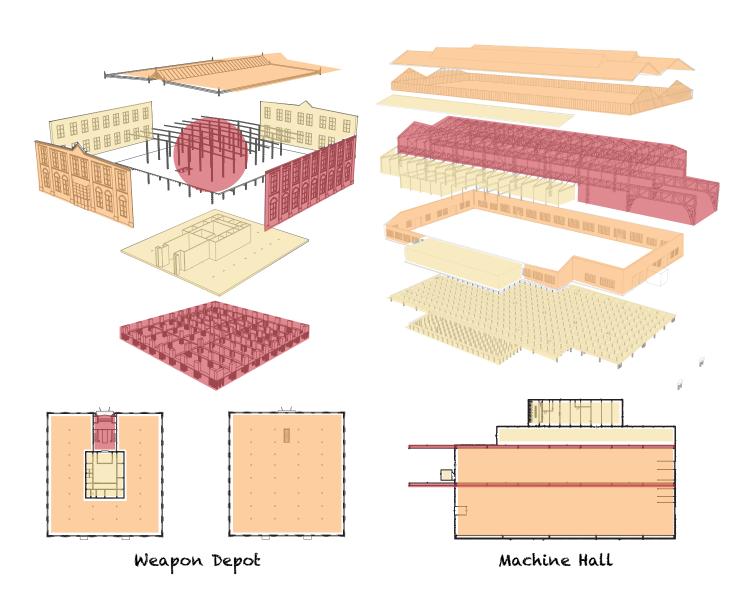


Sound Pollution

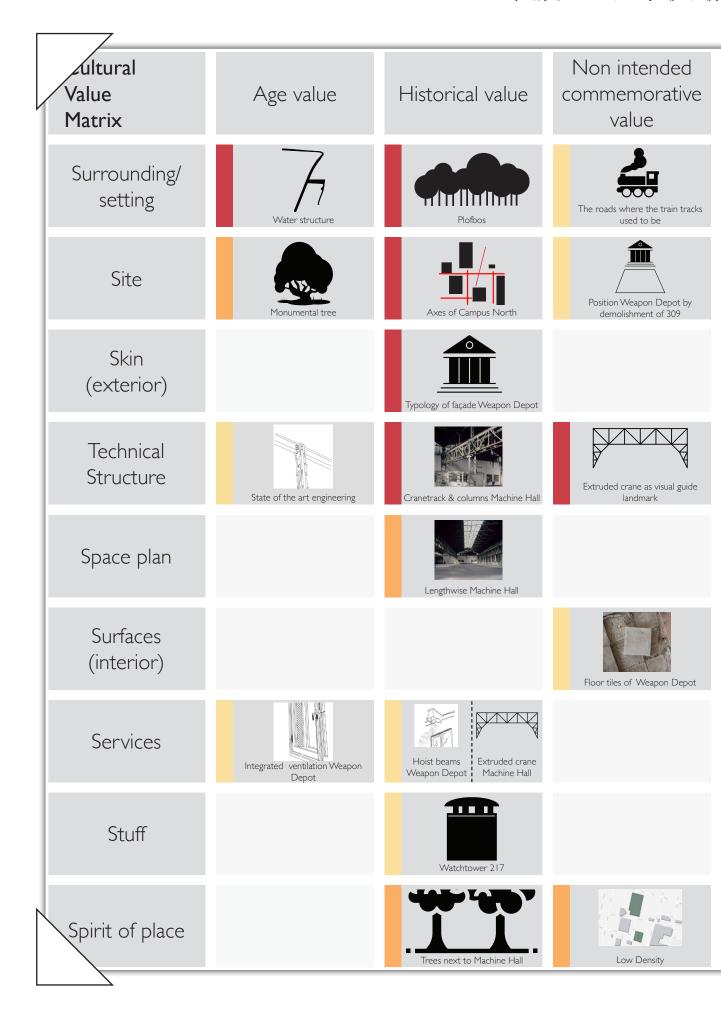


Value Assessment

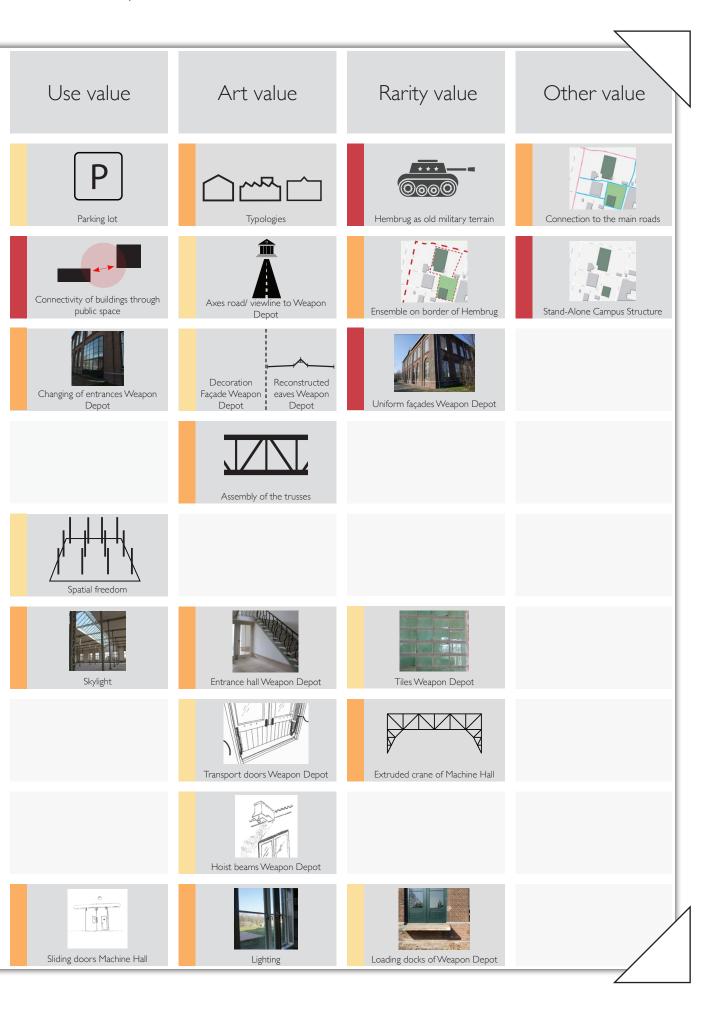




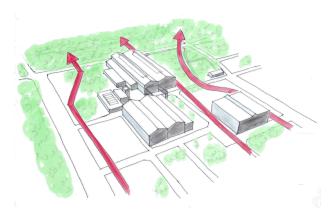
Personal Cultur



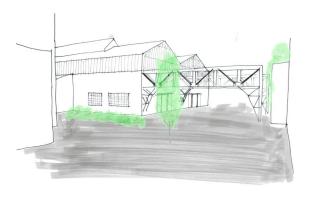
al value Matrix



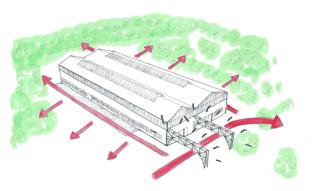
Personal Values



Connection to the forest



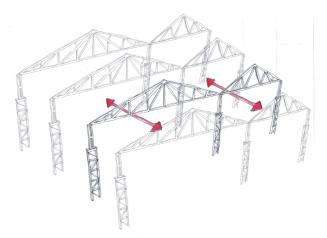
Shared public spaces



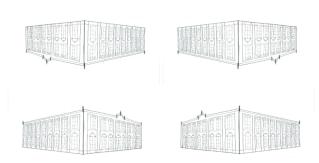
Interaction with the surroundings



Transparency, openness and relationship with the outside



Open and flexible structure



Typology as blocks in the field



Approach to buildings

My etude

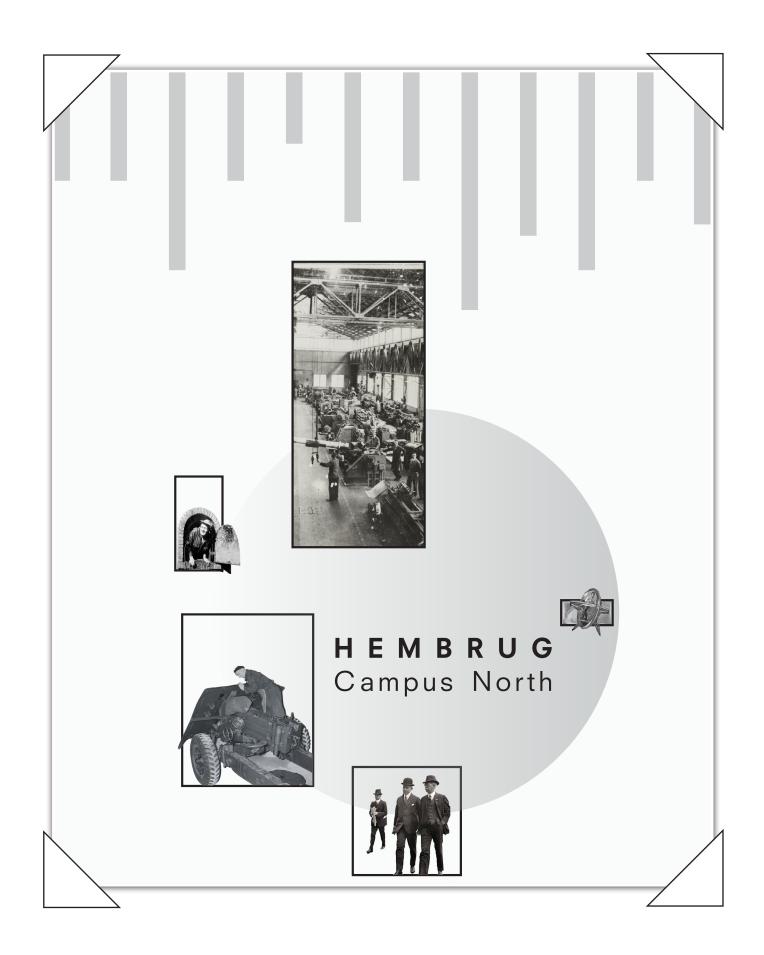
For me it's about the two faces of the site, on one hand the open campus structure: the freestanding buildings in the public space, orientated towards all directions, the repetitive patterns alongside all faces and the mix of typologies, which together form an uniform unity. On the other hand the forest, with his history and roots deep inside the past, gives the area its curiou's atmosphere. A roof of leafs penetrates the area and is meeting the open shared space in its core. It's about the connection of those two worlds and how we as users are part in this. The forest was always a save haven, a place to shelter and to protect yourself when the sky was falling, but nowadays it can watch over you when you are escaping for modern society and find yourself peace and happiness. To see all of this your eyes are going troughs the buildings, light is falling on you, when your eyes are reaching trough the twigs. Sight lines are racing past you and disappear between the trees in the horizon. All of this is lying in different time layers on the area and now a new layer is painted over the area but we can still see his original soul through his eyes, because they are the only things that never change.



Design







Conclusion

By analysing all this information and relating it to the main question of this research "How did the functional logic of the Artillerie Inrichtingen influenced the character Campus North has today? we can determine the following:

We can conclude that the structure that is still visible is directly related to the functional logic of the site. Characteristic objects, like the tower, Stelcon plates and the crane structure are designed as functional objects, but are nowadays important elements of the character of Campus North. The typography and the development of the area had not only visible traces like the twater structure to drain land, but also in the subsurface where different soil composition can be found which resulted in different foundations of the buildings. The functional structure, related to the rational grid the area is developed on, are still present in the current situation. Because Campus North is placed on the former edge of the terrain, the different expansion periods of the terrain can still be recognized.

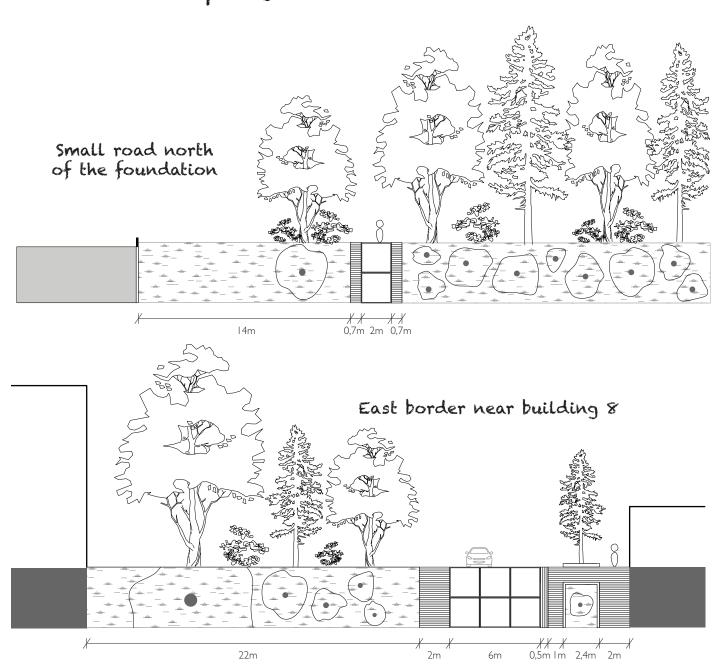
In the current situation Campus North consists mainly of large industrial buildings built in the third building phase. The appearance of those buildings is characterised by the production of weaponry and civilian machinery. The weapon depot in contrast, is built in the first building phase and distinguishes itself by its neo-rennaissance military building style. Several buildings of the first and second building phase have been demolished and replaced for the larger manufacturing halls that were needed for the new production of heavy artillery and civilian machinery. Since this third building phase several buildings have been demolished that resulted in the low density of buildings and the large amount of open space the ensemble has nowadays.

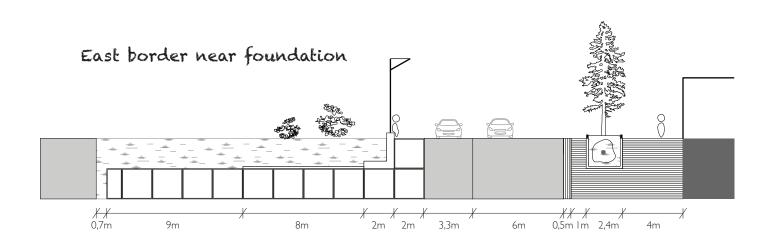
The Weapon Depot has always had an important position in the Hembrug area. Since the change of its function from an depot to an office, it was used as the headquarters of the factory, and as the location of the headquarters, Campus North was also of importance. Especially when the square in the heart of the Ensemble was created after the demolishment of building 309 and the main entrance was changed from the south border to the north, Campus North became a landmark position.

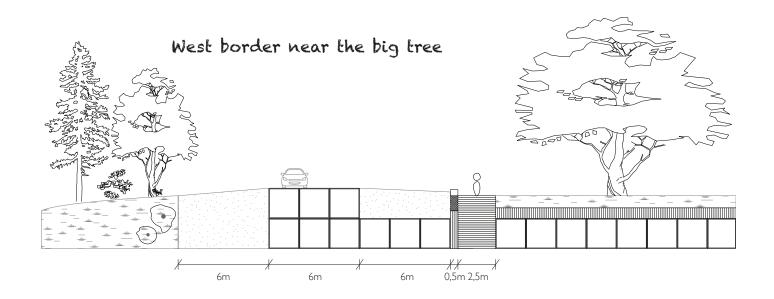
For the Machine Hall we can conclude that the function of the building has been a strong influence for its appearance. The machine hall is a clear example of the change in production that followed after the third building phase as it is one of the largest buildings on the whole Hembrug site. The building has fallen into disrepair, but the size, construction and appearance of the building form still a clear reflection of the production of heavy civilian machinery tools.

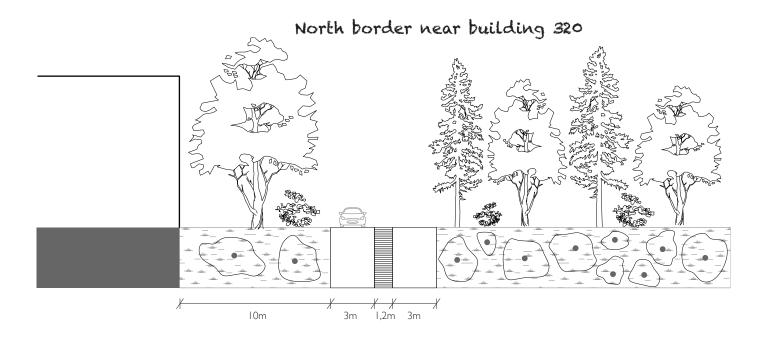
All these findings contribute to answering our main question. In the future we would like to analyse what is the tolerance of change. By doing so we would like to see what the tolerance of change for adapting the campus is without losing its characteristic value that we attributed as being of higher value for cultural and historical significance.

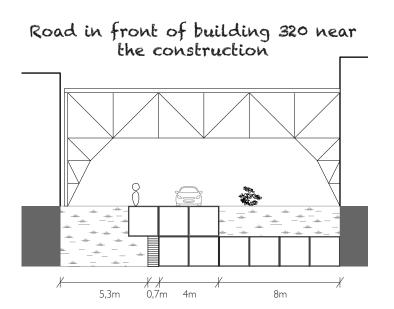
Spring break, Throwback

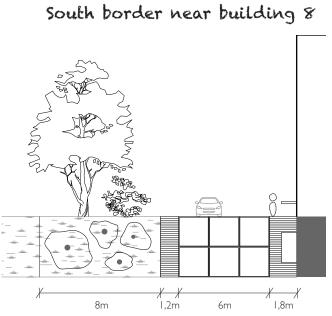




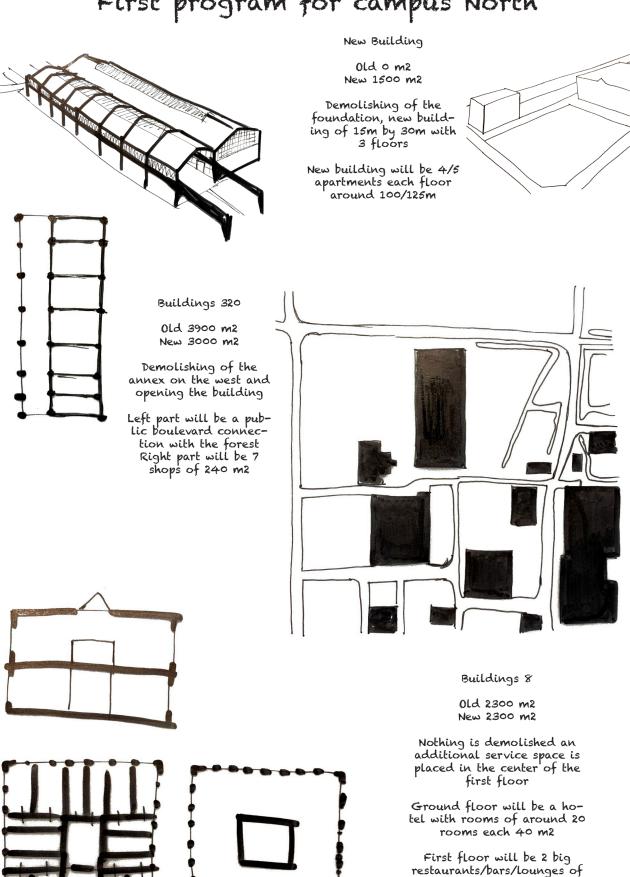






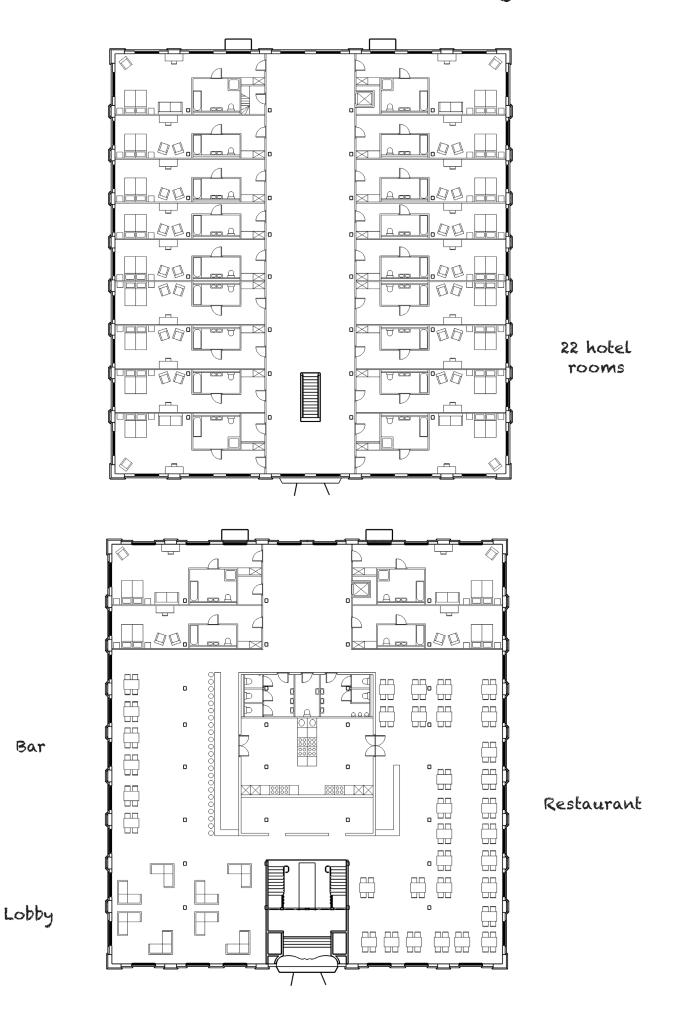


First program for campus North



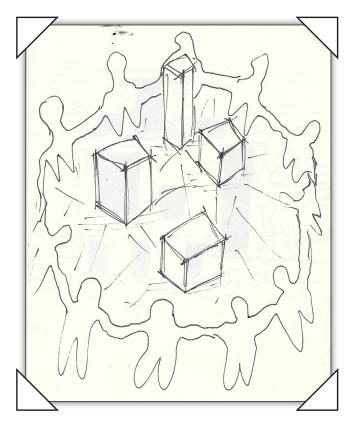
500 m2

Hotel Restaurant-Bar Hembrug

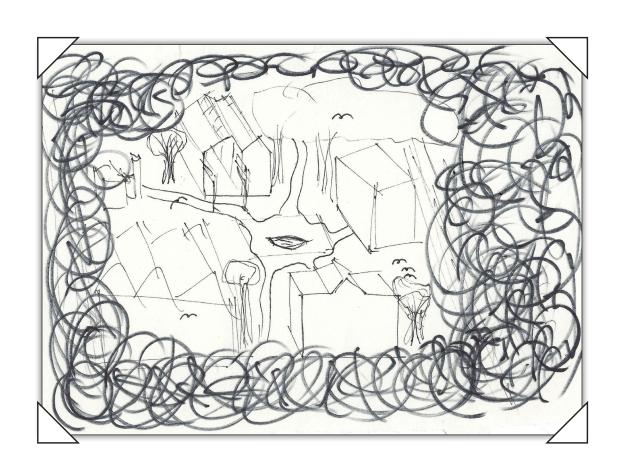


Week 4.3 06-05

"The forest was always a save haven, a place a save haven, a place to shelter and to protect yourself when the sky was falling, the sky was falling, but nowadays it can but nowadays it can watch over you when watch over you when you are escaping for you are escaping for you are escaping and modern society and modern society and find yourself peace and happiness".

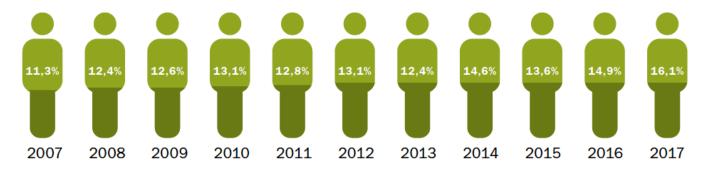


Society???



Mental health OVERSPANNING BURNOUT DEPRESSIE diseases Alert Concentratieproblemen Concentratieproblemen Concentratieproblemen Inslaan-Inslaap-Inslaapproblemen Niet somber somber somber aan dood Aanhoudende Kortdurende Altijd aanhoudende werk- en/of privé-Interne overbelasting werkgerelateerde problemen gerelateerde problemen problemen werk en/of privé Uitputting Vermoeid **Uitputting Uitputting** Burn-out symptoms per municipality Doffe Vermoeide Vermoeide indruk indruk indruk Sociaal (mogelijk Mogelijk sociaal en professioneel Sociaal professioneel) Altijd afgenomen professionaliteit functioneren en disfunctioneren door verlies van professionaliteit grip op complexe probleemsituatie disfunctioneren Vaak gevolg van aanhoudende Aanloop is kort (soms weken tot maanden) Directe reactie op Aanloop is lang overbelasting + negatieve stress (soms jaren) overspanning of burnout Average 17,3 % 1. Almere 23,9 2. Haarlem 23,2 3. Amsterdam 23,1 4. Haarlemmermeer 20 5. Zaandam 18,6 6. Groot Amsterdam 18,1

Growth burn-out symptoms



Week 4.4 13-05

GGZ Nijmegen

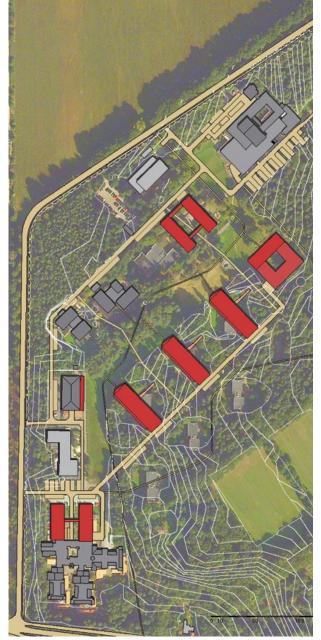
Master-plan

- e 15 ha
- 254 Patients

Treatment and patient building

- e 3,200 m2
- 39 Patients
- Public vs Private
- Day vs Permanent
- Individual vs Group





Reception Aud

Audio and visual room

Showers

Toilets

Group therapy rooms

Sporthal

Individual therapy rooms

Kitchen

Changing rooms

Music room

Waiting rooms

Livingrooms

Theater

Garden

Petting zoo

Dining

Costume room

Archery

Conference room

Storage rooms

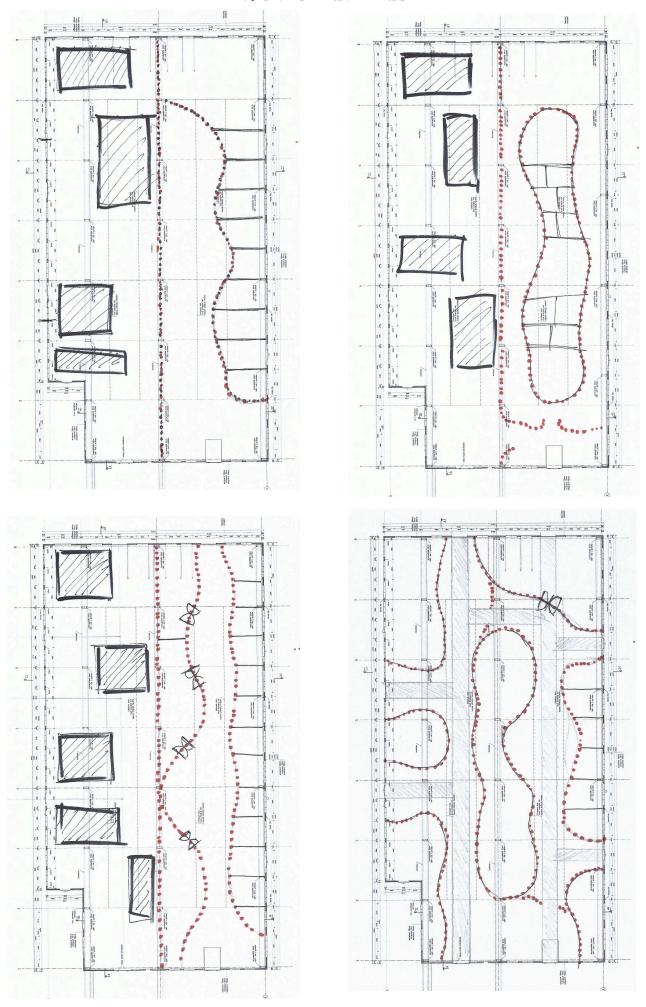
Creative spaces

Log cabin

Luchroom

Offices

First sketches



Self-Assessment on the use of narrating and materializing in the research on Hembrug

I INTRODUCTION

Already at the start of the study in the bachelor research methods where provide by teachers and lecturers. Subconsciously the first methods like research by design where used in the formstudy courses, where the design was created by constantly reflecting on the models you made and use them as an input in the next model. Later, heuristic techniques like architectural mapping became part of the research. In most of the cases an architectural map, like for example a Nolli map, was made, which was analysed to find the essence. In my research and design process, I saw already at the end of my bachelor that my process not only a continuous interaction between analysing and designing was but also an interaction between concretizing and abstracting.

Some of the research methods provided by the lecturers were sometimes already subconsciously used in my research but because of the lectures I can now put those research methods in a framework. Especially the lectures of Klaske Havik on Spatial Narratives and Eireen Schreurs on Material Culture and Culture of Materials where interesting for my own research project. This has to do with the studio of Heritage where I am in. The studio differences itself from the others studio because there is already an existing situation, you are not only dealing with a location but also with its buildings. The location for this project is the former Artelerie Inrichtingen in the Hembrug area in Zaandam. Important for a heritage project is to address its cultural value and the elements, which ensure this value. As a tool to analyse this values the cultural value matrix is given to clarify all this values and to arrange all this values. One of the most important values for a heritage project is the historic value. In the lecture on Material Culture, Schreurs quoted Tim Ingold "An artefact is an materialisation of a thought" and in this quotation, two of the most important aspects of historic value are coughed.

The reason to grasp this cultural value of the site is to make an argued decision to preserve or demolished an element. What are the limitations of the design to preserve its cultural value? Important for this is to find the elements, which are containing the historic narrative, but this works also the other way around in a design. Not only in a way how a narrative can be materialist in a design but also in the way an investigated narrative can be materialized in a research. Because how do you show the value of a narrative? This interaction lead to the subject of this self-assessment on the research methods I used in the research on the Hembrug area in Zaandam. The main research question I asked myself is:

How is in the research on the Hembrug an interaction used between narrative and materialisation to address the historic value? Tschumi already addresses this impotence, he says on this: "Architecture does not exist without drawing, in the same way that architecture does not exist without texts." 1

In the first part the research methods will be discussed that are used in the research on Hembrug. The second part will be a reflecting on how other people used these methods in order to achieve their goal. In the last part my own research will be relate to this methods and how they are used.

II RESEARCH-METHODOLOGICAL DISCUSSION

It would not be peculiar that a Heritage related research mainly is focused on doing architectural historical research. Wang describes historical research as an interpretation of the historian's point of view and the output of this research is a narrative. According to Lucas a historical precedent can be used to substantiate present practice of architects. By understanding the past we can argue our present day actions. Especially focused on the historic value, research can clarify a decision of maintain or demolish an building or element. Because in heritage you are dealing with an existing context, this research is starting with this current situation so the base is a context led research. In this research we as a researcher have an important roll in the research on the historic value. Because the historic value has to do with the way in communicating a narrative, we are the receiver of this narrative, making it an emic research.

The way of researching in heritage is a four-step process.4 The first step is the chrono-mapping. In this phase the historical and current data is collected and mapped out in words, maps or diagrams. The reason behind it is to give insight in how the site evolved in its current state and what we can still see and trace back to the past. The second step is the value mapping. The goal of this value mapping is to give an overview and structure to organize all the values found during the chrono-mapping. As a tool you can use the cultural value matrix made by the department of Heritage and Architecture. There are more research tools like this one, for example the Burra Charterr and the Nara Grid. The last one does have lot similarities with the cultural value matrix but is much more focused on conserving instead of designing.5 The third step is the Mapping Levels of Significance. Where in the Value Mapping it is about the qualitative research to address the values, it is in the Levels of Significance about the quantitative research on how important the values are and how they are arranged in relation to each other. The last step is to Defining Dilemmas. Because of some values are conflicting with the modern requirements and contemporary visions.

A way to organize these values is the division according's to Riegl his values. In his assay on Cultural values he sees the values as different lenses in which way you can look at the monuments. He argues already the similarities and differences between a historical and an artistic value. The most important difference is that the narrative that is behind the monument is brought tot the viewer his conscious. This can be done with the use of the visual materialisation or a narrative inscription. Most of the time this is an interaction between both methods, which amplify each other.6

Value is an important aspect in the meaning of a building in its context. These landmarks, how Lynch is calling them, are determined for a major part by there historic value. He says: "Once a history, a sign, or a meaning attaches to an object, its value as a landmark rises." 8 It is even possible to give the building a not excising value, just by planting a narrative in the viewers conscious. An great example is the 'I am a monument' (fig 1) by Venturi in his Leaning from Las Vegas research.7 People are seeing value where they want to see value.

In more recent publications is often searched for an explanation of this historic value and how it can be found, addressed and visualized. Most of the time there is an overlap between historical and age value but the main differences is that the age value just has to do with time and that historical value has to do with event. Paul Drury defines the historical value with: "Value deriving from the ways in which past people, events and aspects of life can be connected through a place to the present". 9 This indicates that the place or element has a connecting roll in communicating this history to the present people.

III RESEARCH-METHODOLOGICAL REFLECTION

One of the most challenging aspects is the method to show these historical values. Because how do you express values or even architecture in a narrative and how do you visualize a narrative? I focused on two different types of researcher and both have their own personal view on the use of a narrative and a material and the interaction between both.

Trachtenberg has written a book on architectural history and architectural monuments where he tries to reveal those historic buildings to the reader. He uses a combination of word and images. On the 'word' he says: "To describe the building a mastery of specialized vocabulary of architectural writing is needed." For a non-native speaker like me this is much harder then a native speaker because it requires a very high level of vocabulary to describe architecture because in architecture it is much more about experience and feeling. To understand a building the images is for most people much easier to understand, but how do you capture an architectural monument in illustrations? He divided the image in two types, photographs and diagrams. Photographs are the most common method to understand a building, but in most photographs you lose a lot of important information and details, which are essential to show a building his value. Trachtenberg says: "Traditionally, architects have been deeply involved in the design and crafting of detail, which was a major means of architectural expression." He even argues that a Greek temple or Renaissance facade can be seen as a giant intricate sculpture made entirely of detail. To show those details, which are the most important part to understand those values, he use a combination of detailed photographs and diagrams. In diagrams he shows the structure, space and proportions of the buildings. Tools he uses are the: plan, elevation, cross-section, the isometric projection and the perspective drawing.10 A thing he don't address is the difference between the loss of information and the reduce of information. Because in most of the cases a picture or a sketch can also be seen as a lens or a filter which reduces the information to show the essence of a building and its value.

In words and buildings, Forty talks about the relationship between architecture and language and how words can be used to describe architecture. One of his aspects was the relationship between language and drawing. The conventional view of the process of architectures shows a chronological relation between drawing and language.

Idea → Drawing → Building → Experience → Language

In this case the language can be seen as a step in the process to evaluate the design but actually is language a tool tot use through the research and design process. Words are for example used to give the idea to the architect and are used to describe the plans to other stockholders. With the use of pictures and words you always have a kind of data loss of the original building, so the pictures and words could never replace the actual building. This problem you can also see in our research because we where not allowed to go in a building because of the asbestos. Despite that we had historical drawings, plans and pictures of the inside of the building we were missing a kind of experience and understanding of the building.

Because of the differences between using words or drawings an interaction of methods can help you in your design. A drawing is very exact; it can help you to be precise and concrete, and language is much more vague but this can help you to describe difficult elements like mood and atmosphere. To show differences a word can help much more then a drawing, because almost every word has its opposition, for example light and dark, and open and closed, but the opposite of a drawing is still a same expression of a drawing. Another feather of language is the use of metalanguage. We can use words to explain our words so we have the same interpretation of the word. Drawing on the other hand can have multiple interpretations by all the viewers. The effect of time and sequences does also differences in the methods, while the drawing is a one-moment shot, a sentences has a start and an end. Also experiencing a building it is not possible in one moment but it is a sequences of moving and looking. At last a drawing show much more then you can tell with words. To describe all the date of a plan in words you need much more then just one drawing.11 If you relate this to historic values the way of defining this value depends on the degree of concreteness. Values that have to do with the surroundings, site and spirit of place are much easier to express in words than in drawings. On the other hand, concrete materialized values such as skin or structure related, could easer be addressed with the use of pictures or drawings.

IV POSITIONING

At the start of my research I was mainly focussed on heuristic technics. Before we focused on the area we analysed case studies in order to create a toolbox of references for our own research. After the case studies we started with analysing he area. Because we didn't know what we where looking for heuristic methods where a good start to grasp the location. I started by mapping the location in sections and plans like a Nolli map. (fig 2) With the chrono-mapping it was a lot about collection rough (historical) data.

The lectures and the literature gave me a new interesting view on dealing with this data. The distinction between analysing a building with words and to give a narrative a materiality intrigued me. I used this in the research on the borders of the area. (fig 3) To use this method on the borders was really helpful because the borders have the problem that they are on the one hand very concrete, there is a line and that is the border, and on the other hand has the location of this line to do with the feeling and how you experience the border. This can be related on the differences Forty address between the use of words and drawings. After the boarders were analysed in drawings, the use of words was used to show the differences and to connect all the elements in an annalistic drawing. (fig 4)

This way of analysing is also used in the way of presenting the research. Firstly my personal narrative based on the research is materialized in the form of a creative expression. (fig 5) I combined make-up and architecture to give a materialized expression of my thoughts with my own face as the canvas for the design. After this 'drawing' a play with words is used to describe this idea in a narrative way. It was interesting to see that the drawing, without saying anything, brought up different ideas and interpretation by each person. None of these interpretations was wrong but they addressed different elements of the same concept.

With the use of this method, values, which are normally hard to explain in heritage because they have to do with feeling and experience, can be pointed out quite exact. A narrative can help a building or element to show its historical value and a historic narrative can be materialized in a detail or expression of the building. In heritage one of the key elements is to understand the meaning of a building or a place. If you can figure out what the story is behind the building you can trace this story back to the elements telling this story.

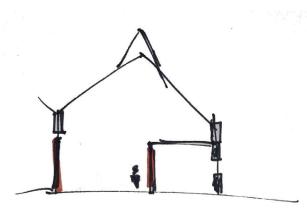
If I look back on the research question: How is in the research on the Hembrug an interaction used between narrative and materialisation to address the historic value? You can see that both methods are part of a heritage related research. Both are used is a complementary way and not supplementary. They are not telling both half of the story because, either the narrative is not understood or either the narrative has many interpretations. To understand the historic value a combination of word and the physic material is needed because the experience is an important part in the value determination. As I said in the beginning, for me research and design is a continuous process of concretizing and abstracting and with the use of narrative and materialisation you can contribute in this process.

Week 4.6 27-05

Program

Entrée with desk two employees Seats in entree Toilets x2 (men, women, disabled) Seats in the hall 4 creative rooms 6 living/relax rooms Music room Large sport hall Small sport room chancing rooms and showers 6 therapy/workshop rooms Offices 1 on 1 rooms Pet farm Technical room Theater room

Box in a Box

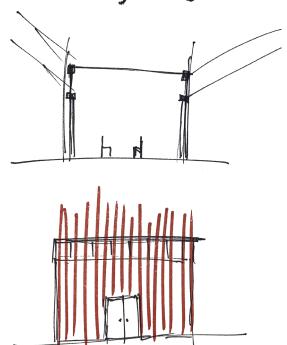


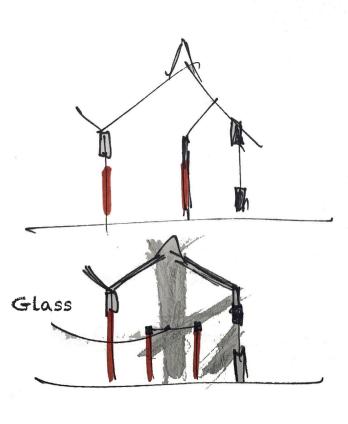


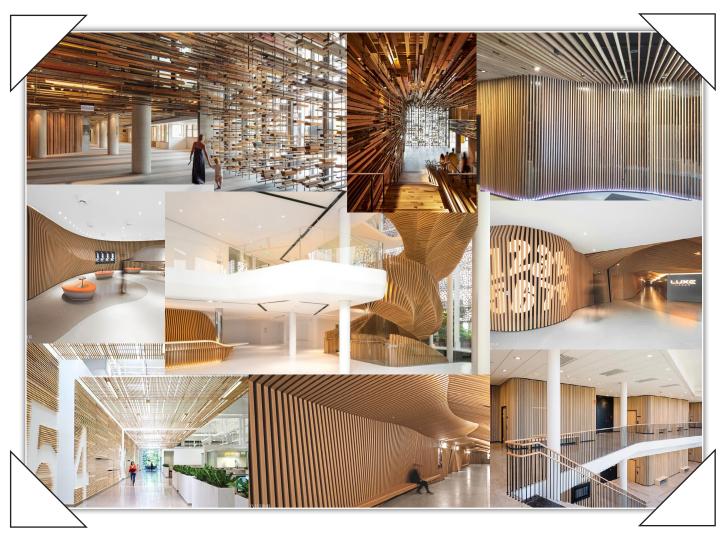
•••

Costume room

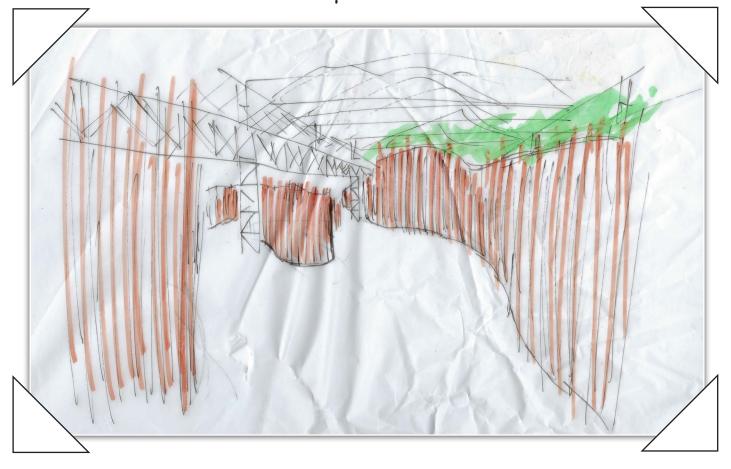
Privacy vs light





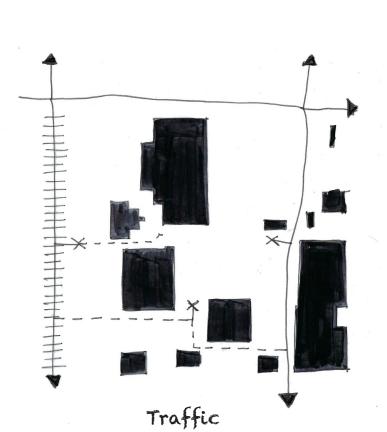


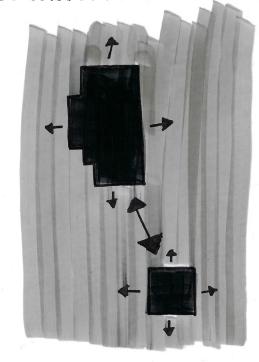
Impressions



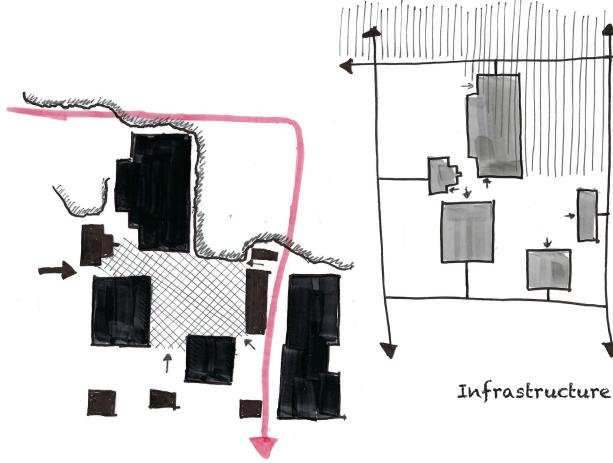
Week 4.7 03-06

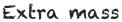
Concept for the location



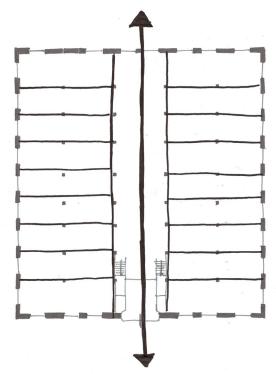


Orientation

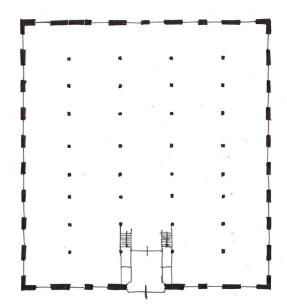




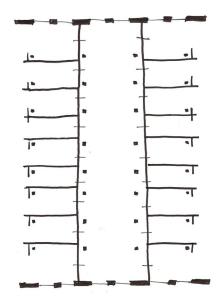
Concept Weapon depot



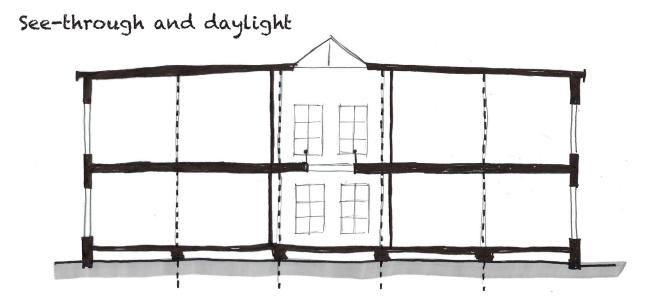
North-South orientations



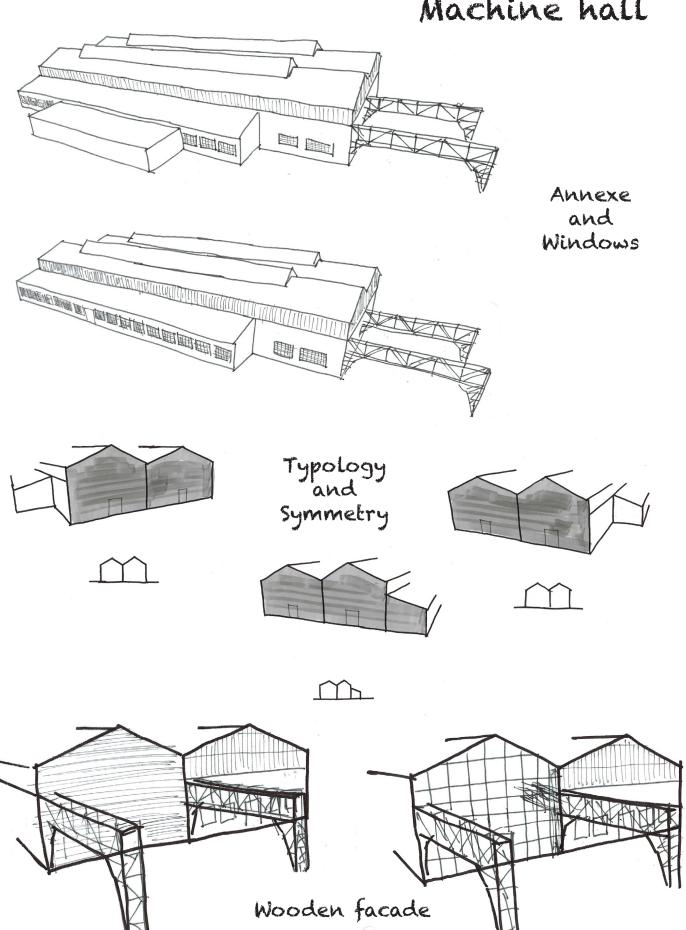
Removing the concrete core

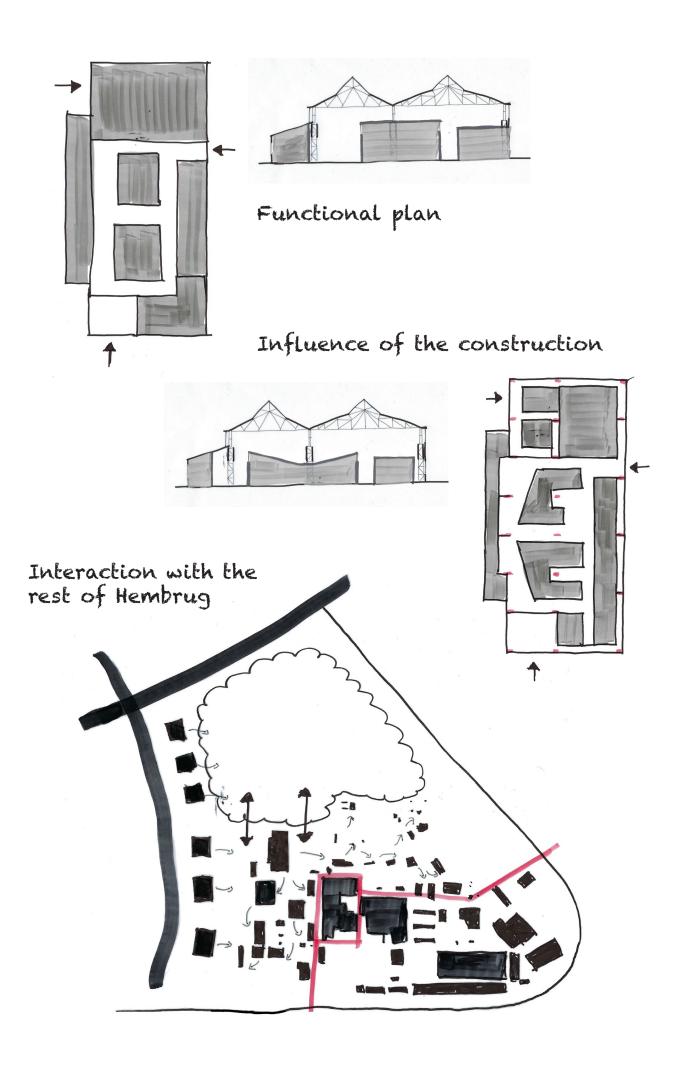


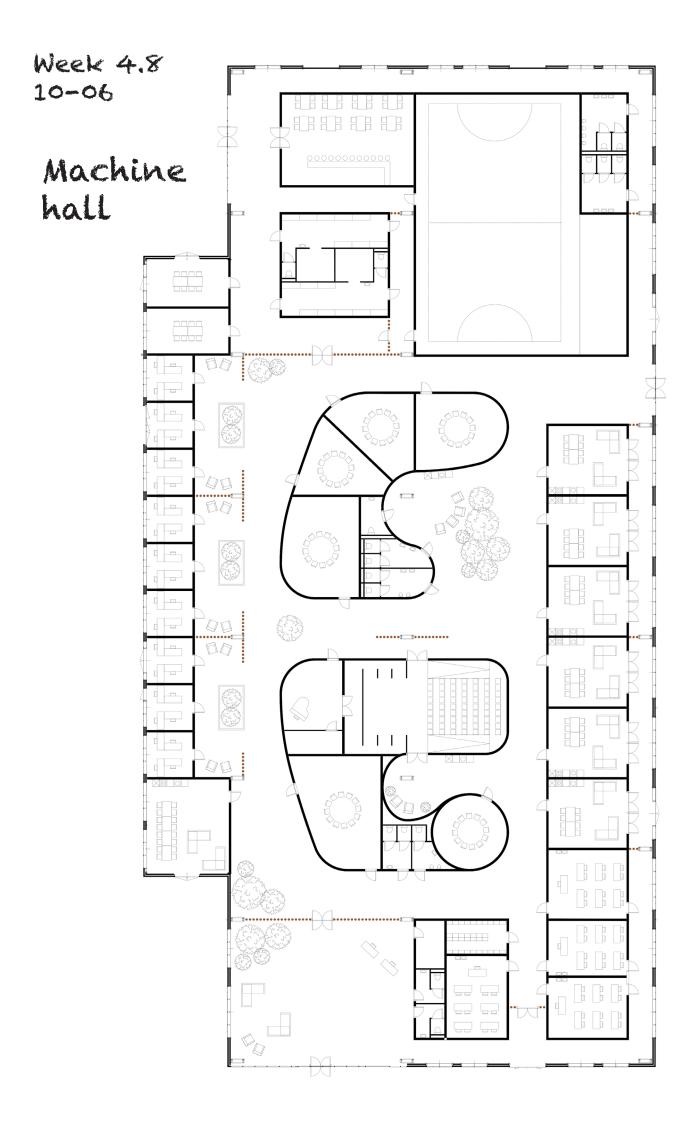
Rhythm and construction



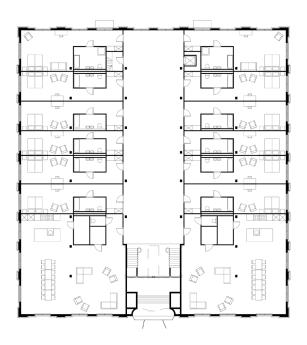
Concept Machine hall

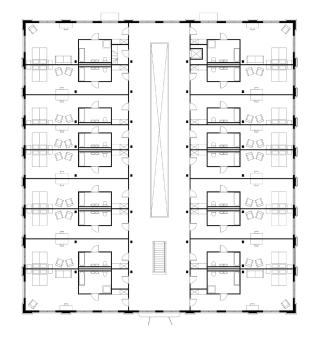




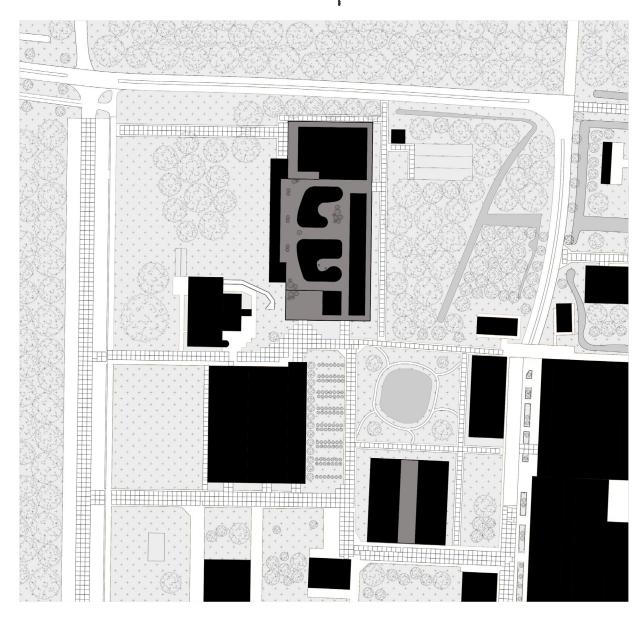


Weapon Depot

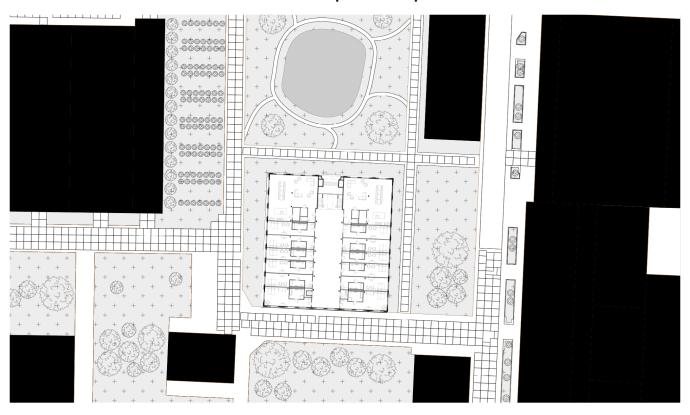




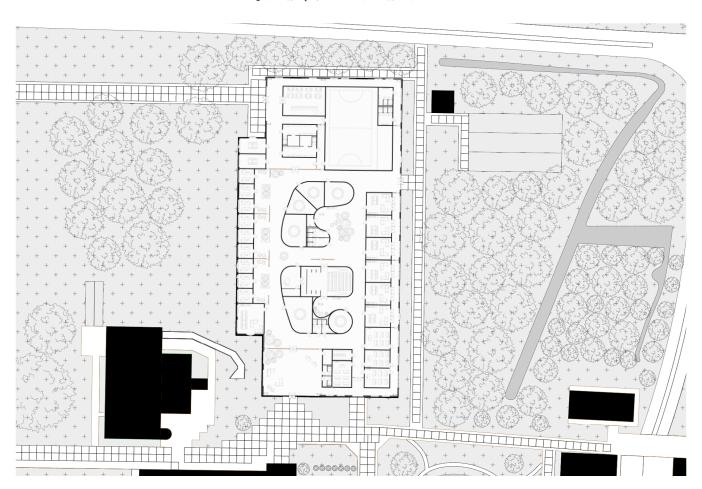
Urban plan



Site Weapon Depot



Site Machine Hall





Site model 1:500







Visit to De Hallen in Amsterdam

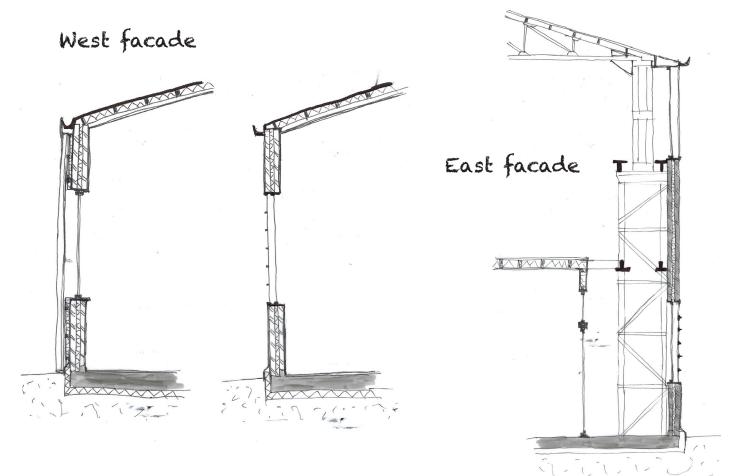


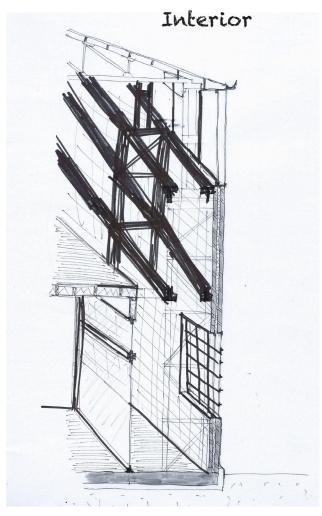


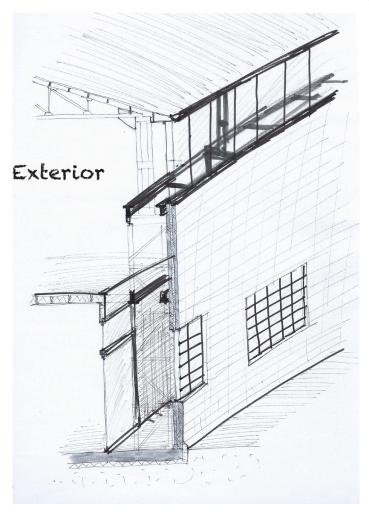




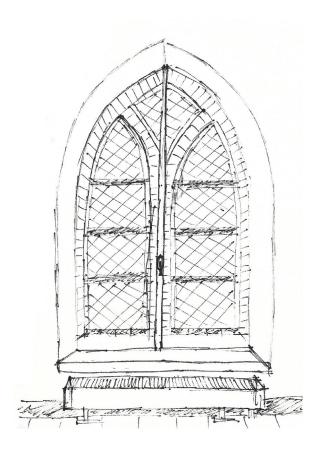
Workshop Detailing





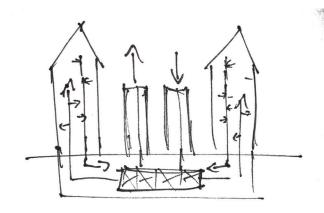


Visit to Janskerkhofcomplex and Letterenbibliotheek

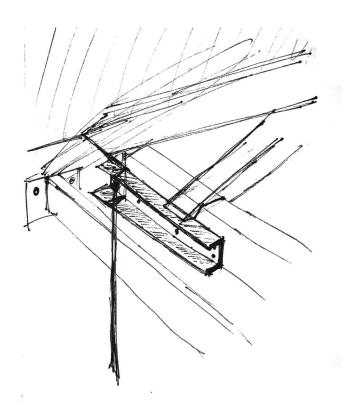


Time layering old window

Ventilation concept



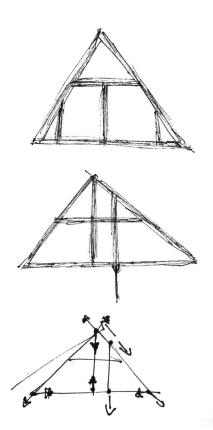






Reinforcing construction





Week 1.3 16-09

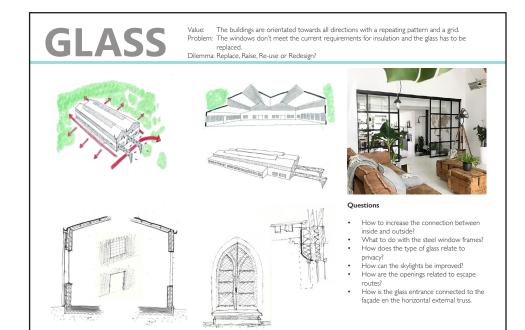
how to establish the human scale? How to transite the immence space to human scale

Very clear set-up of materials, consequences and dilemma's! A general overview would have been helpfull.

> the white and the green plants / trees How do you define the border (or overlap or blanding)



in stead of contrast? 2. Green does it also count for sustainability. Landwhat does it man Lahat is expression





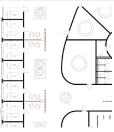
The materiality of the buildings in the same style of bricks connects the buildings and creates,

despite all the different types of typologies, unity in Hembrug.

Problem: The brick facades don't meet the current requirements for insulation

Dilemma: Inside or Outside?









- How does the insulation of the bricks relate towards the function?
 What is the value of the interior brick?
- How can the climate system be used to decrease the insulation needs?

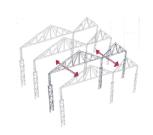
 How is the HWA integrated in the brick
- facade?



The steel construction gives a spatial and historical value to the building.

Problem: The steel construction is not fire resistant and without the crane the horizontal truss is not

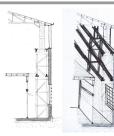
carrying any loads and is only there for stability. Dilemma: Useful or useless?





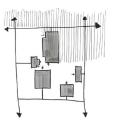






- What effect does the colour of the fire resistant paint have on the experience of the construction?
- How can the horizontal truss be part in the interior design of the building?
 How to connect the exterior and interior
- truss with a minimum cold bridge?
- How can de extern horizontal truss be used to decrease the sun entry on the glass entrance façade?

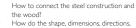
The openness and freedom is a spatial quality and the natural materials create a peaceful environment between the rooms and create a contrast with the construction to emphasize this more. Problem: There is lack of human scale in the experience of the space











- pattern and materialization of the wooden elements affect the experience of the space?
- How does the appearance of the wood
- effect the experience How can wooden elements be used to translate structural urban elements in a building? (Building as a city)





Nature is taking over the area and creates a pleasant climate and the forest is a natural backbone

for the area.

Problem: To mechanical climatize the whole building a lot of energy is needed.

Dilemma: Greenhouse or Green in house?











Questions

- Which climate is preferred for the in between space?
- How are the green elements connected
- to the de building?

 How are the green elements be watered?

 Which type of green can be used and fits the location a climate?

The Hembrug area is a peaceful oases of the chaos of the city where you can find yourself peace and happiness.

Problem: The construction and all the wood can create chaos for the people who will be treated there.









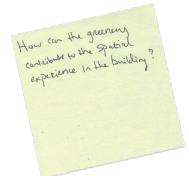
- How is the counterpart of the steel and
- wood, the white, materialized? How can white be used to hide something
- and gives peace in the building? How is the steel and wood connected with the white?
- What is the experience of the different group session's rooms?

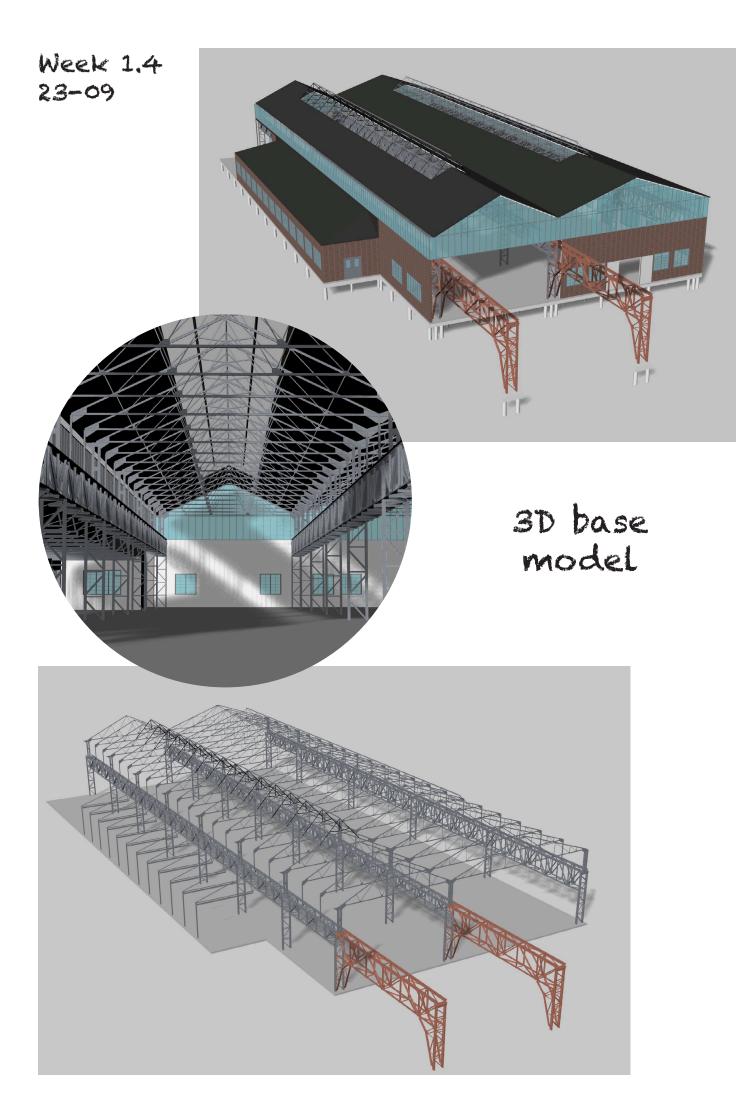
Redo Rethink

Do you think of the dilenmas as opposites or do you think a balance can be achieved?

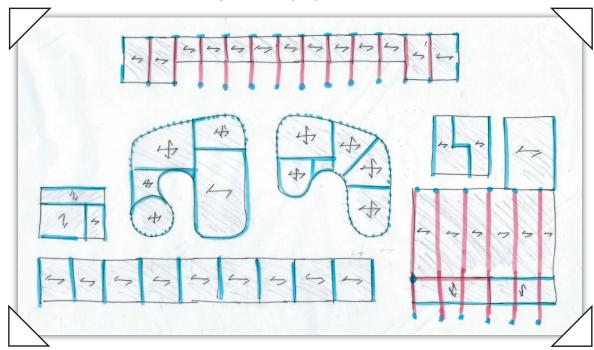
You have thosen very clabouth representes while dealing with this issue. Why?

Beautiful and clear presentation. You know what you want and are by asking I'll these questions questions yourself.

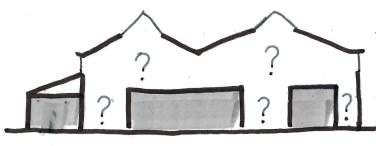




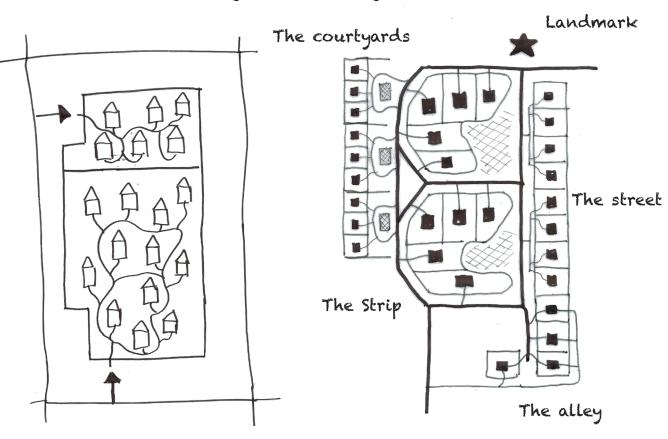
Construction



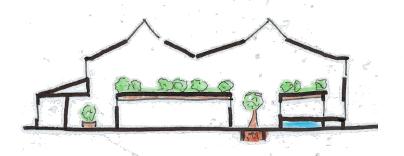
How can the human scale be brought back in the be brought back in the be brought of large redevelopment of trial redevelopmen industrial and open industrial heritage by treating heritage as a city?



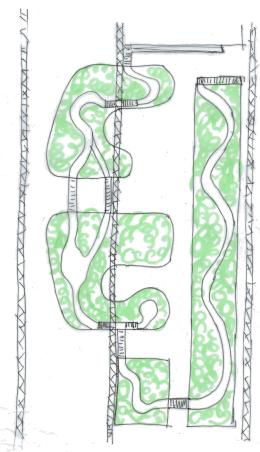
Buildling as a neighbourhood



Week 1.5 30-09



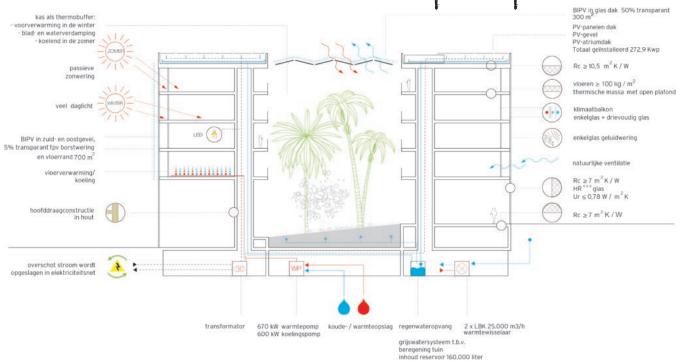
Green roof park

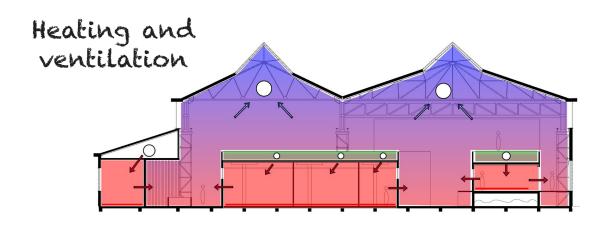


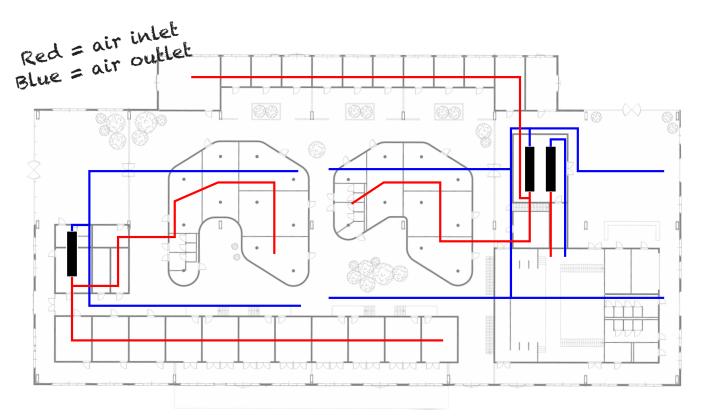
Impressions



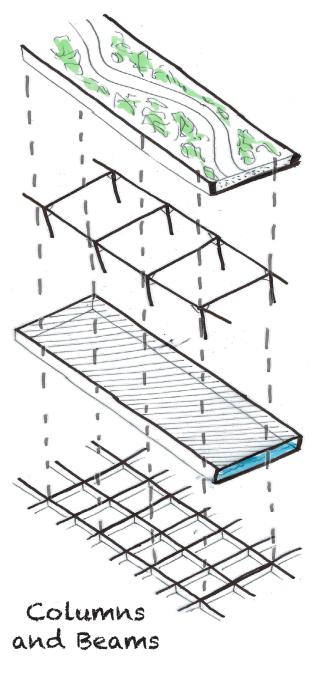
Hotel Jakarta climate principle



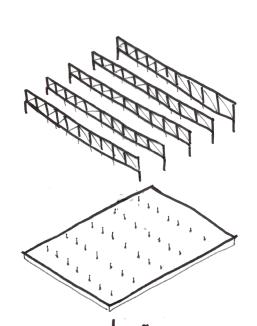




Constructions

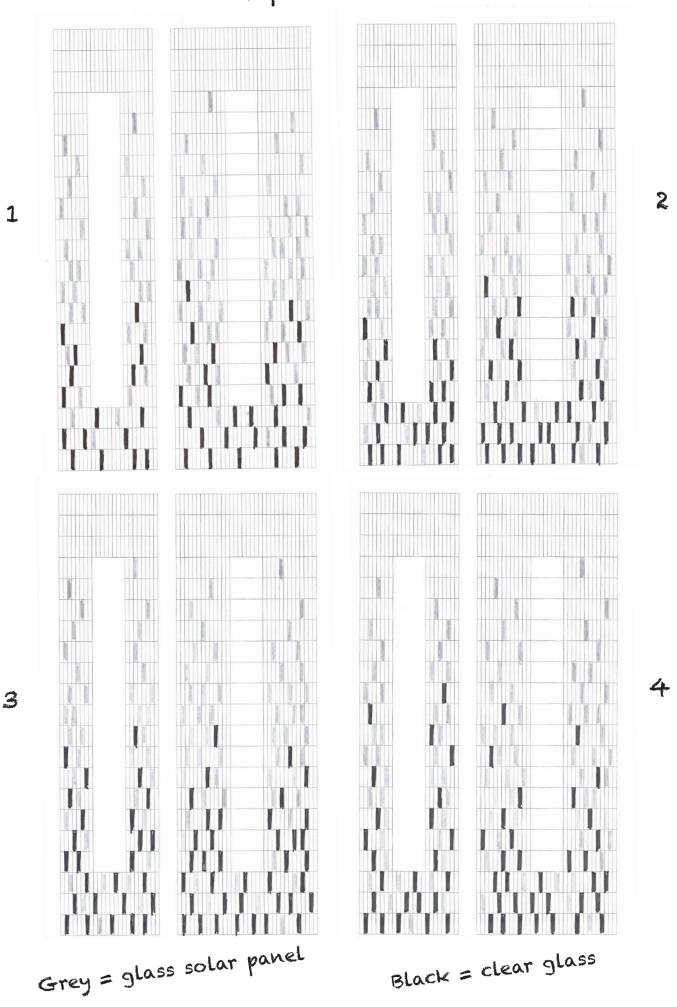


Mushroom Columns



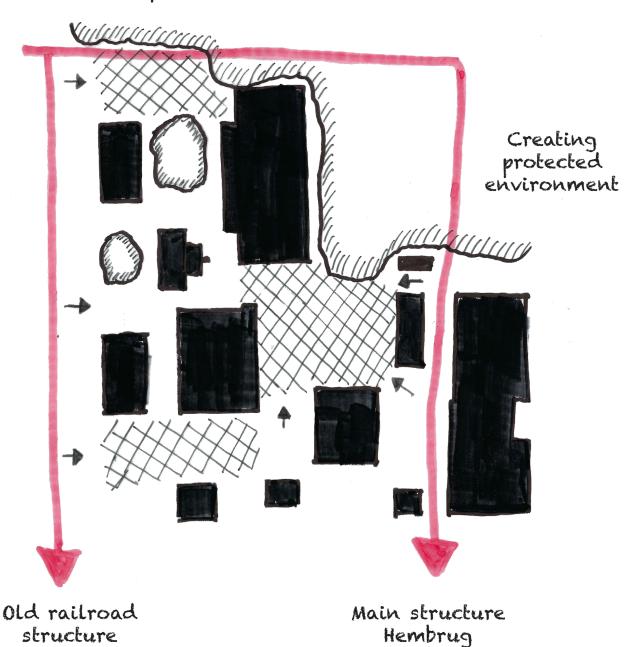
Hanging roof trusses

Roof pattern research



Concept re-thinking

New entrance Campus North



Construction model 1:200





Top view



GGZ Entrance

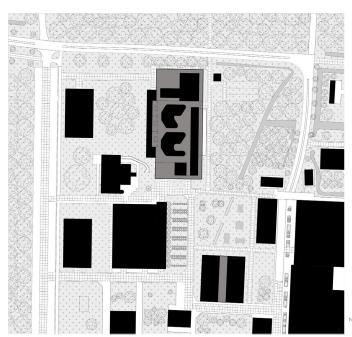


Theater foyer

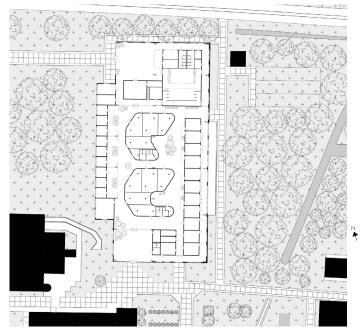
Mental Health Center Hembrug

Revitalizing Hembrug, to revitalize society

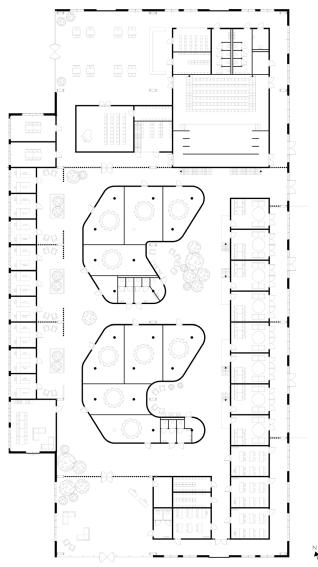
P3 Job van den Berg



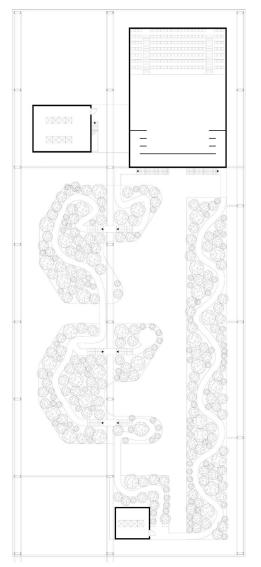
Campus North 1:1000



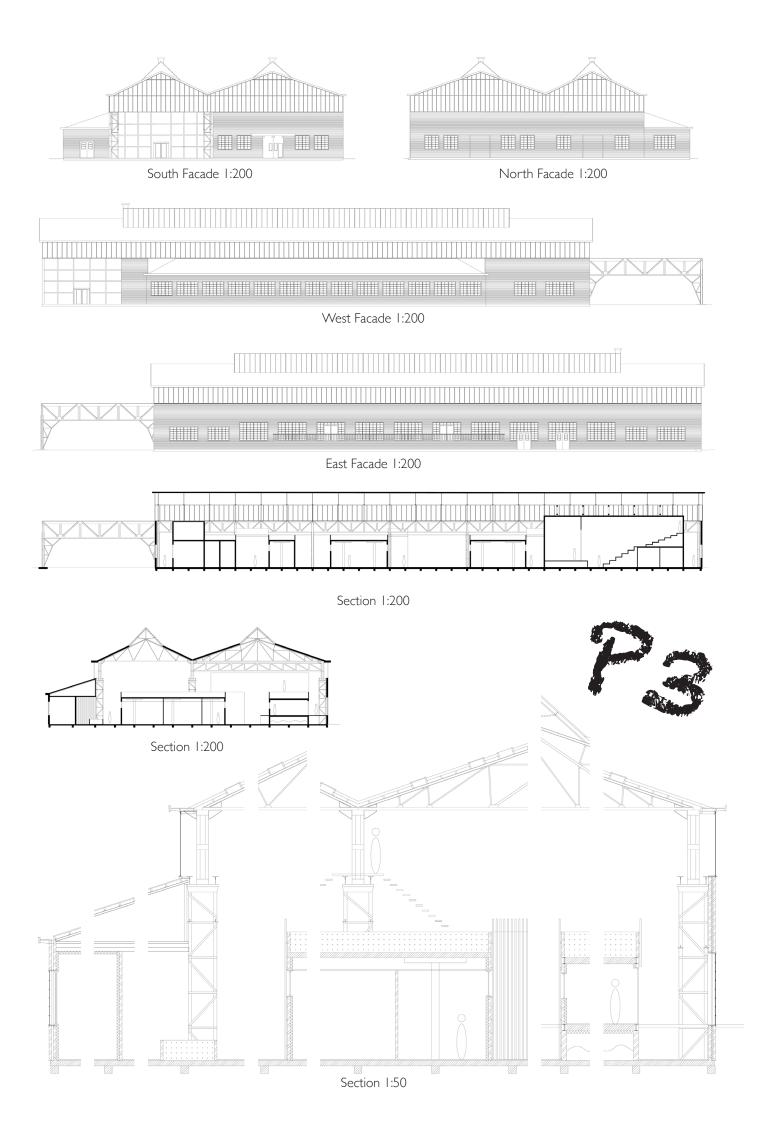
Machine hall 1:500



Ground Floor 1:200



First Floor 1:200



Aspect 1

The relationship between research and design.

Research and design is for me a continuous process of concertizing and abstracting. You have to dive in the research to give a concrete answer on a design question. With these findings you zoom out again and reflect on the bigger picture. I want to use the information on my view on this in my AC3 paper and how this is used in my graduation project.

Reflection Ideas first directions

Aspect 2

The relationship between the graduation topic, the studio heritage, the master track Architecture, and the master program Architecture, Urbanism and Building Science

Beside the relationship between each layer I want to elaborate on the relationship between Architecture an Heritage, because in this perspective you van make from heritage architecture, but how can architecture, urbanism or building technology become Heritage? Is this organization structure a pyramid or a circle?

Aspect 3

Elaboration on research method and approach chosen by the student in relation to the graduation studio methodical line of inquiry, reflecting thereby upon the scientific relevance of the work.

This was the subject of my research method thesis. We used the CV Matric to find the values but how can cultural values be addressed? During my research I discovered that a combination is needed of both a narrative and materialization. They don't tell both half of the story but the have to be combined to understand the whole picture. To do this, a combination of visualization (pictures, drawing or better the actual thing, because to other two can be helpful to highlight and see the object trough a filter but you will always have a kind of data loss) and words is needed. To have value, the object has to have a narrative and this narrative has to become acquainted in a way by the observer.

Aspect 4

Elaboration on the relationship between the graduation project and the wider social, professional and scientific framework, touching upon the transferability of the

project results.

buildings the re-use of this buildings is a hot topic these days. We don't live in a time anymore where we can demolish with no reason and build a new suitable building on the same place. We need to find smart solutions to deal with these buildings in the form of re-use, redevelop and redesign. Most of these massive industrial buildings are missing the human scale. The results of my research on this can help architects in the future with the transformation of large industrial building. How can a building that is made for big machines transformed to be made for people.

Aspect 5

Discuss the ethical issues and dilemmas you may have encountered in (i) doing the research, (ii, if applicable) elaborating the design and (iii) potential applications of

the results in practice.

With the use of the CV Matric in the research you will come across conflicting values. Because these values are qualitative and not quantitative to rank these values is quite hared. The researcher has to compare these values and organizes them in a ethical way and argumenta why

one value is more imported then the other.

• In de design you have to put yourself on the edge between what is the tolerance of change without lousing its value. Because in mine opinion a building can have a very high value, without a function it is worthless. Buildings are made to be used en not to just stand there and be pretty. We as architects can better make smart interventions in the original design if the outcome become a useable building.

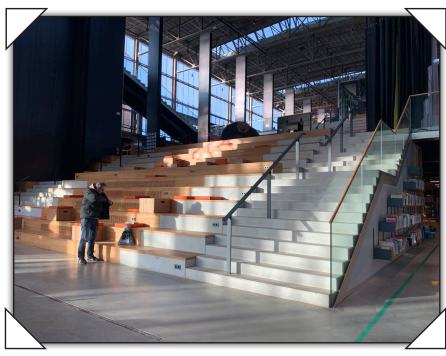
• In the application of the results in practice, the results can help to make the ethical decision between demolishing and re-use because the results are showing

the possibilities and opportunities

Week 1.10 04-11

> Visit to the Lockhall in Tilburg



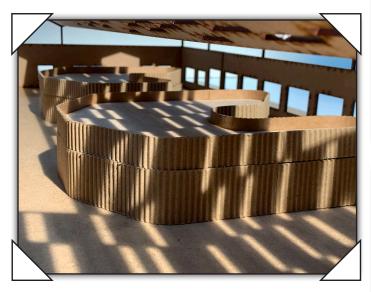


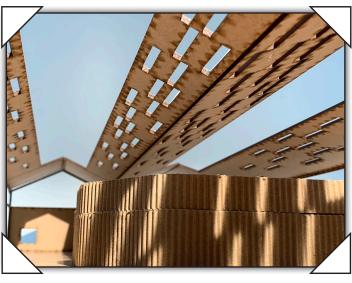




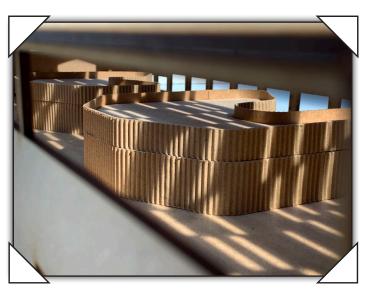




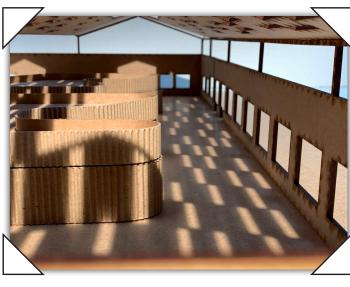










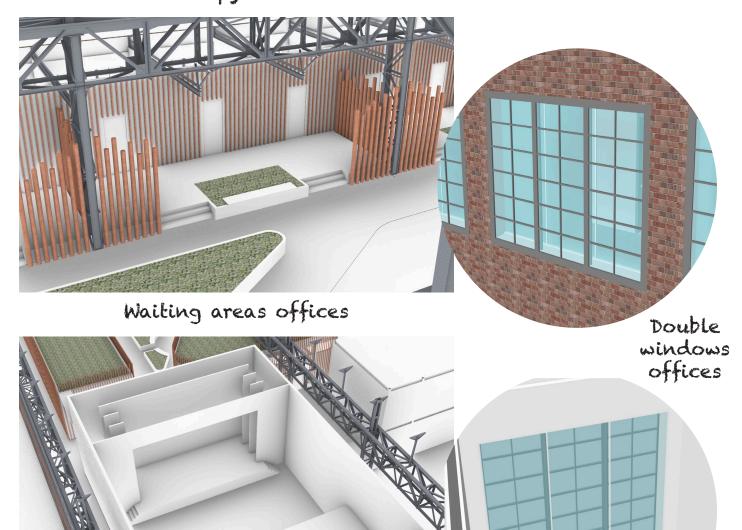


Roof intervention daylight model



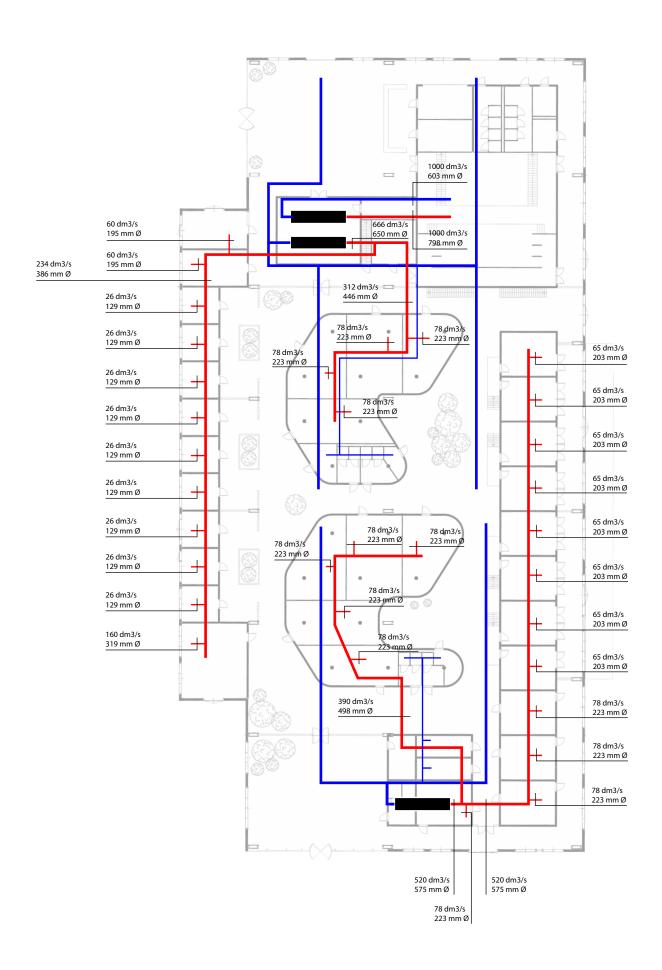
3d Model progress

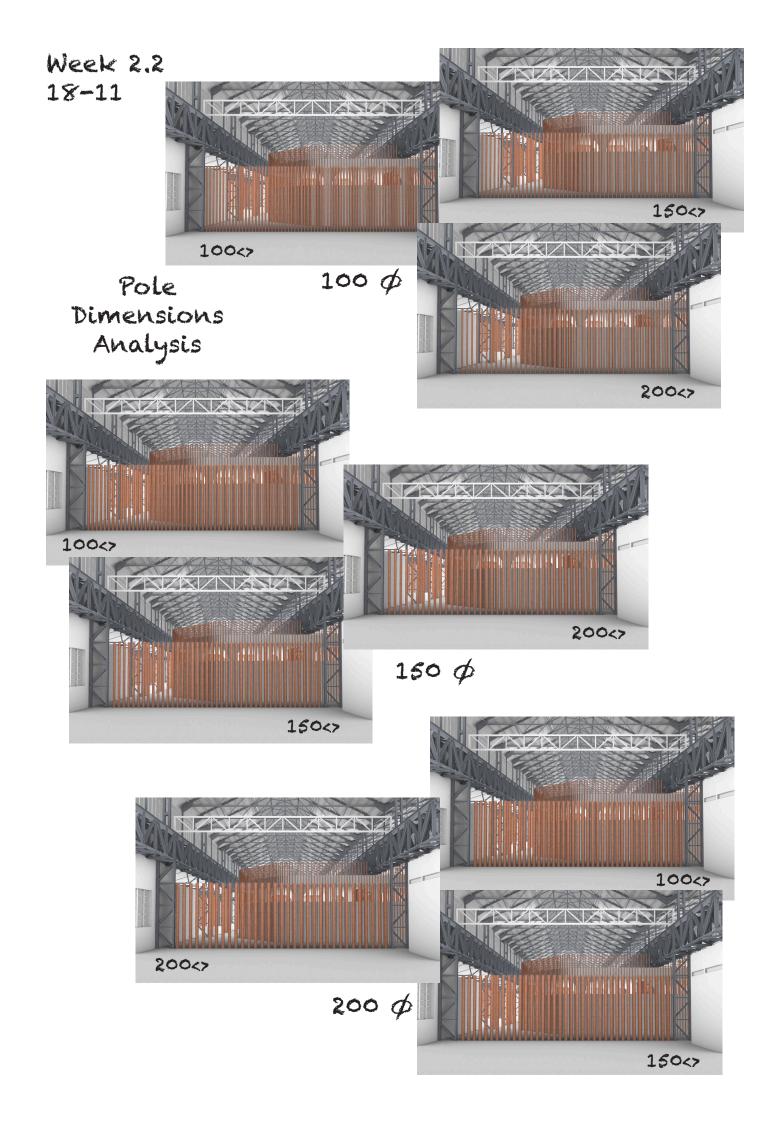
Therapy rooms



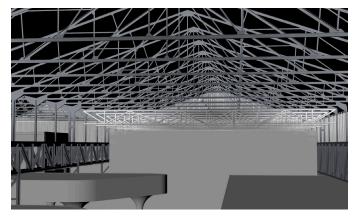
Theater

Ventilation ducts

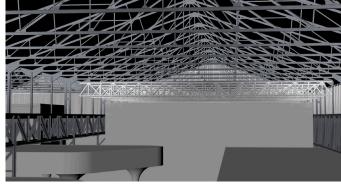




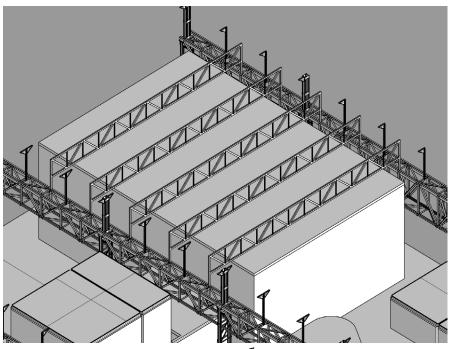
Construction types

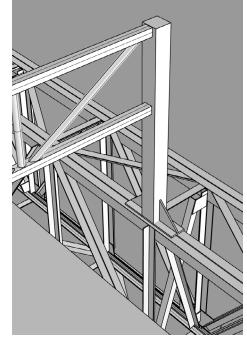


Option 1



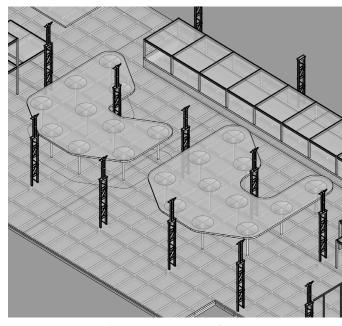
Option 2



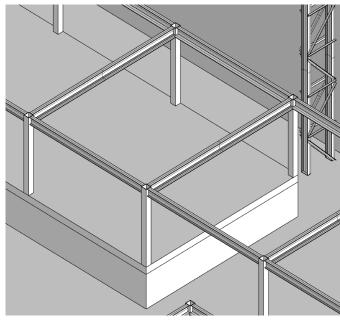


Hanging roof trusses

Detail

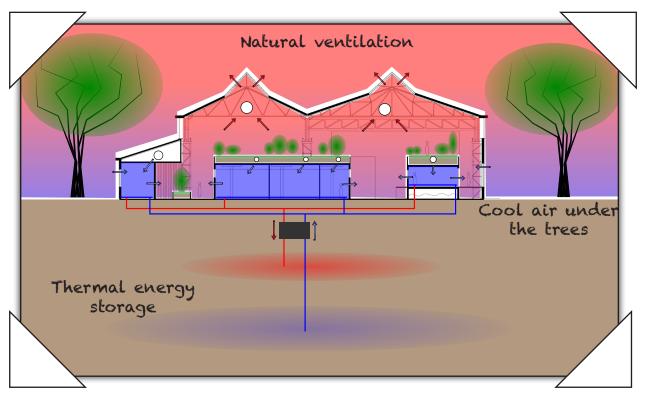


Mushroom Columns

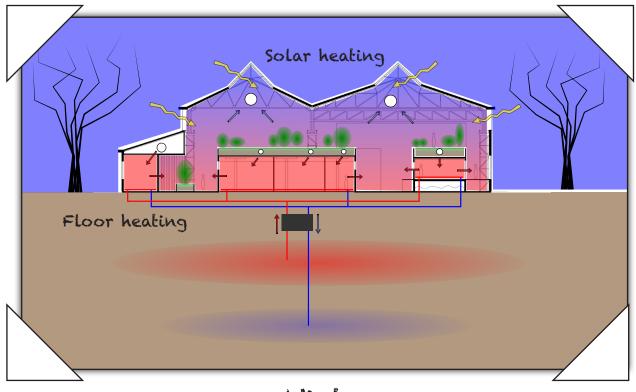


Water storage with Columns and Beams

Climate system

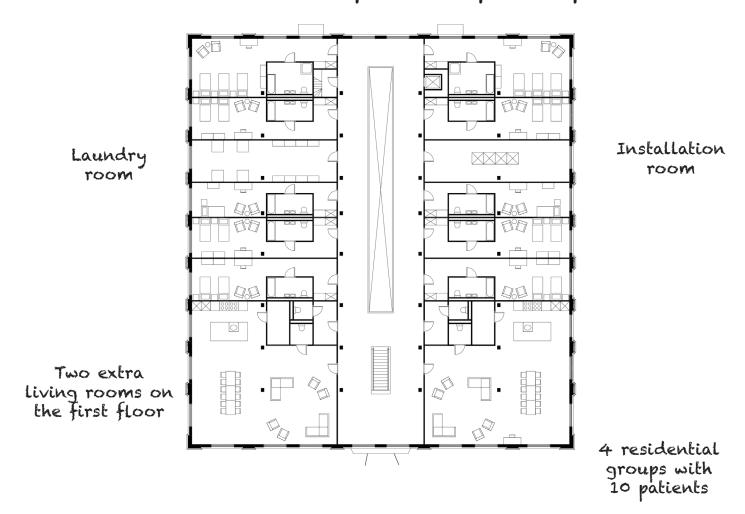


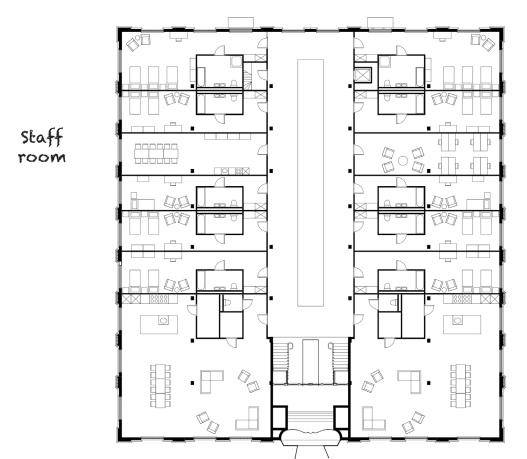
Summer



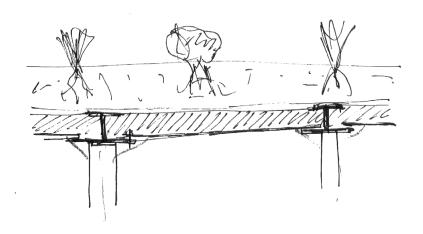
Winter

New functional plan Weapon Depot

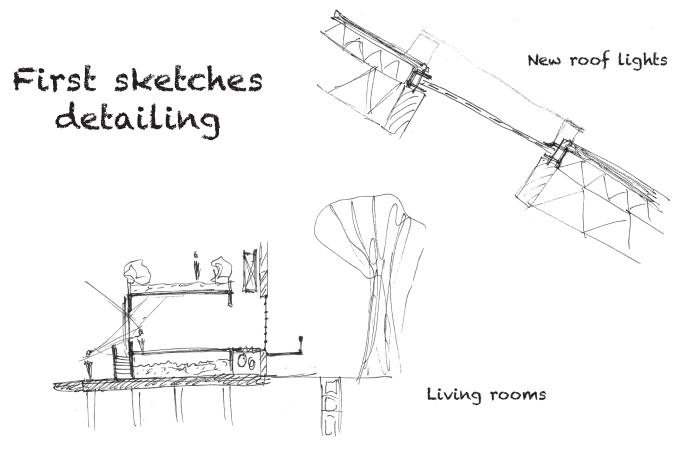


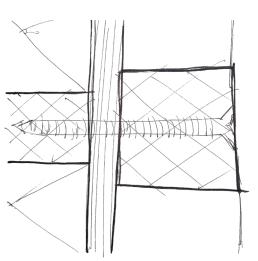


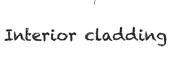
Office

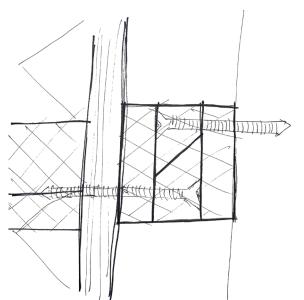


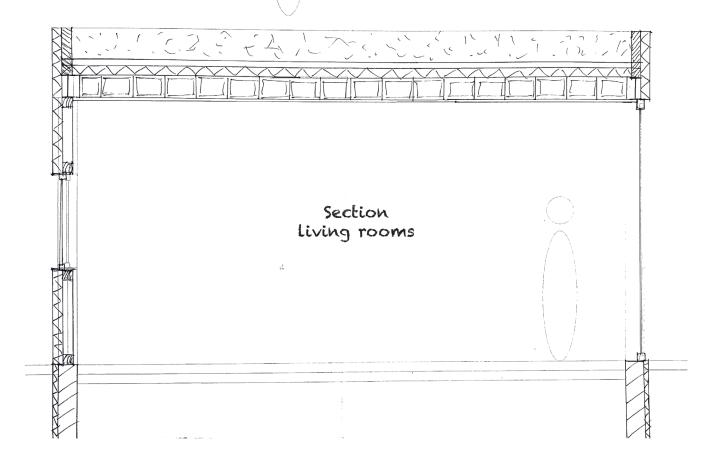
Construction green roof

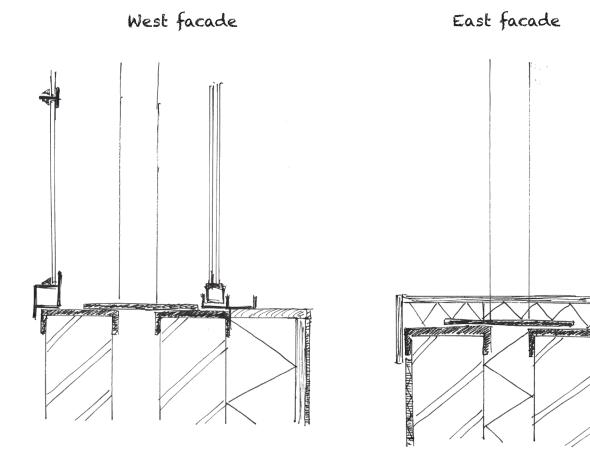




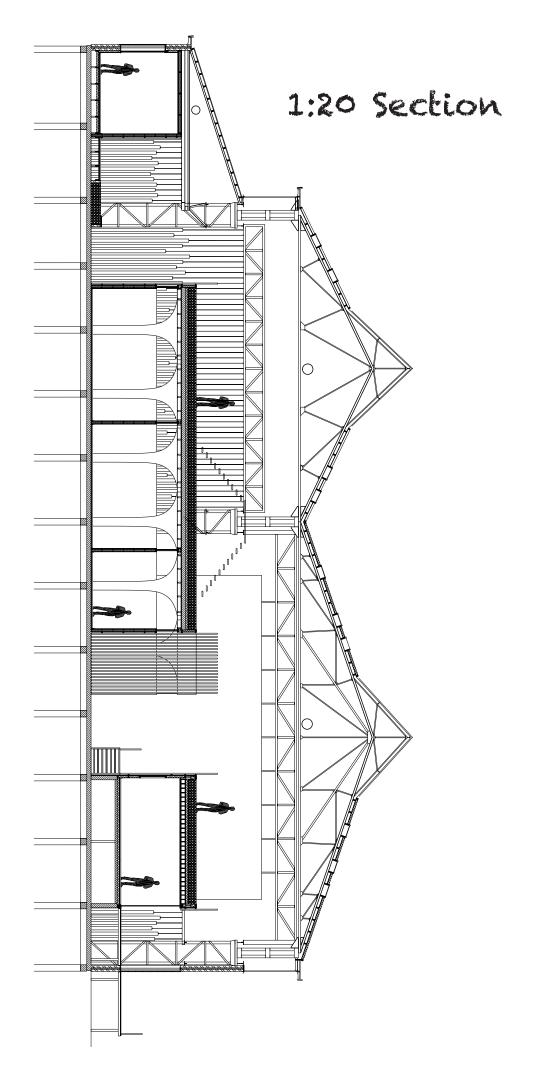


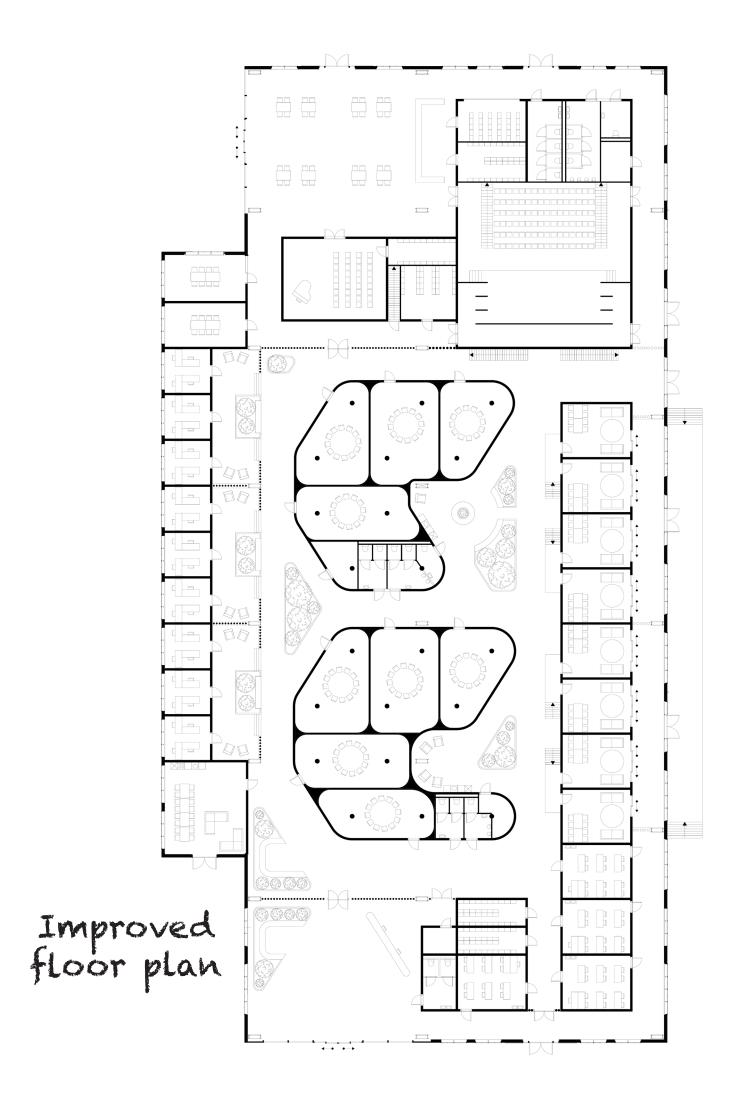






Week 2.5 09-12





Week 2.6 16-12

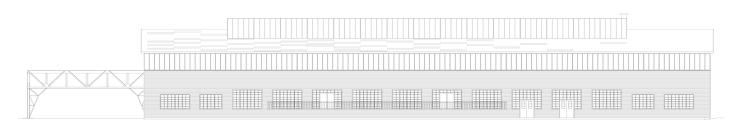
Improved elevations



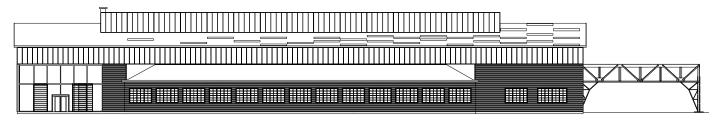
South facade



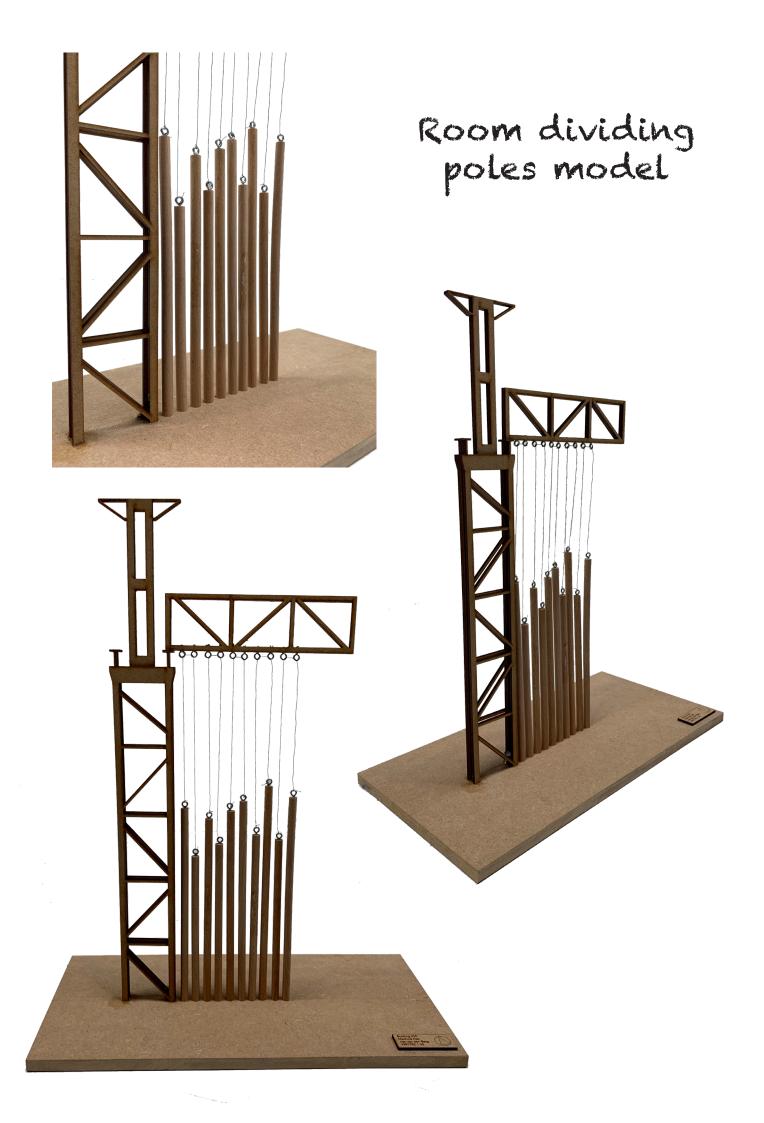
North facade



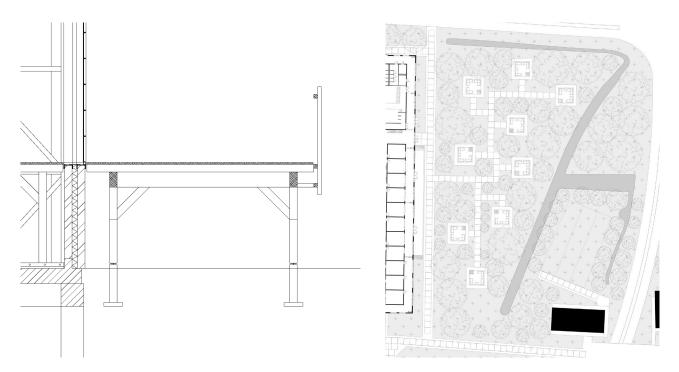
East facade



West facade

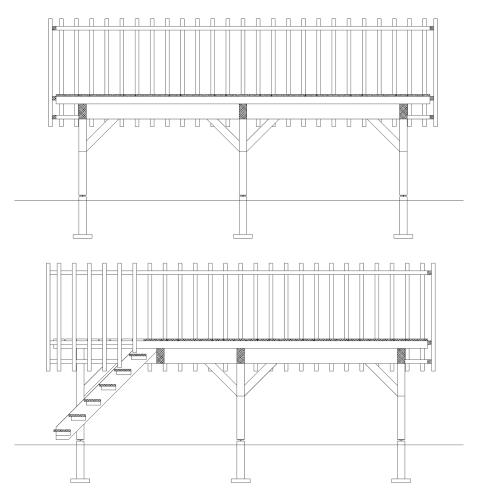


Balcony and pavilions



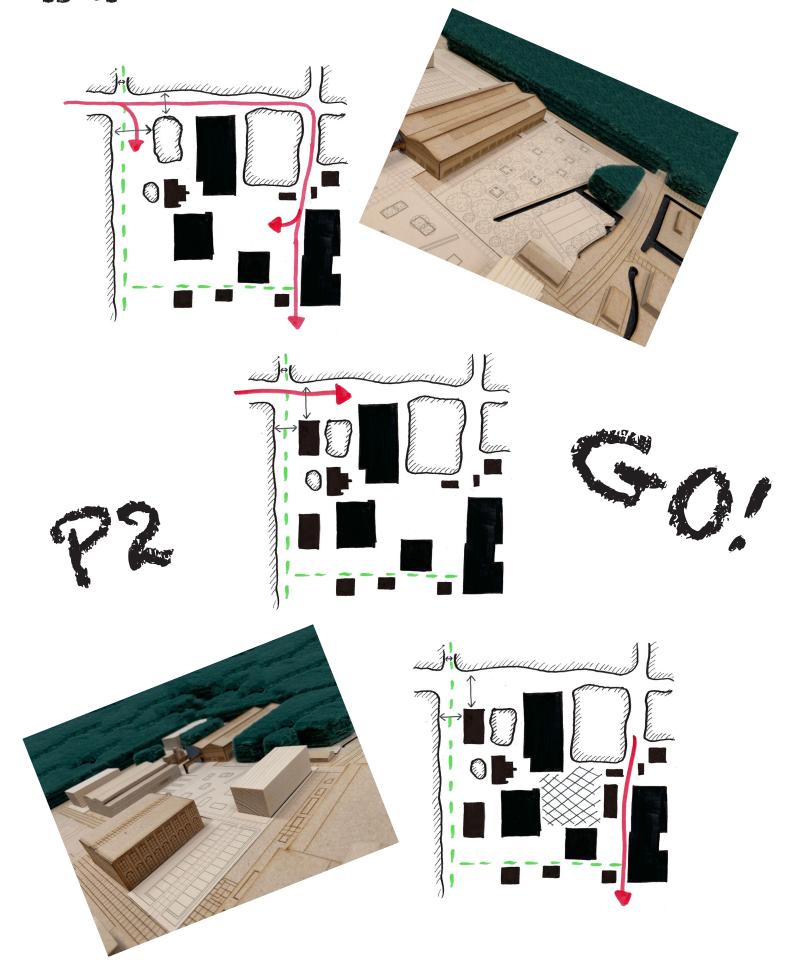
Balcony section

Forest pavilions



Section pavilion

Week 2.8 13-01



Mental Health Center Hembrug

Revitalizing Hembrug, to revitalize society



Masterplan Campus North 1:500



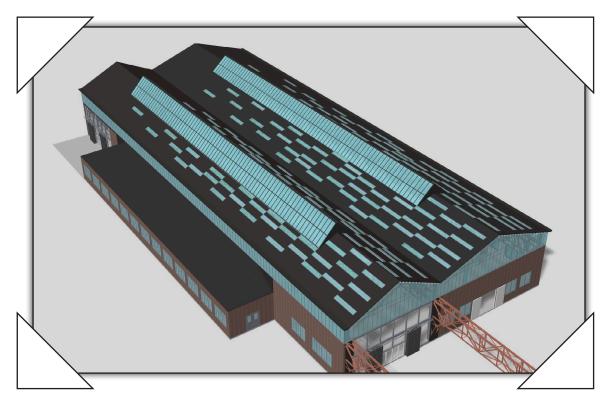
Heritage and Architectrue, Revitalising Heritage, Hembrug

Job van den Berg, 4287762

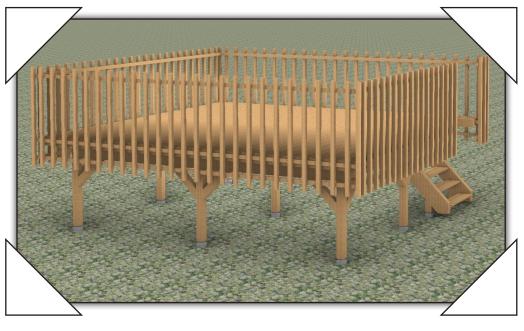
New entrance







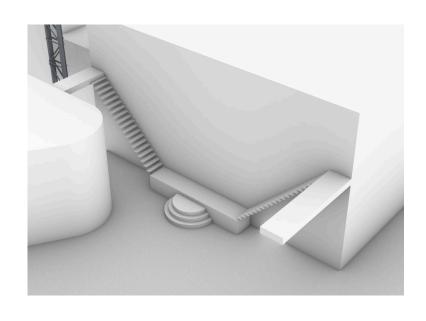
Roof design



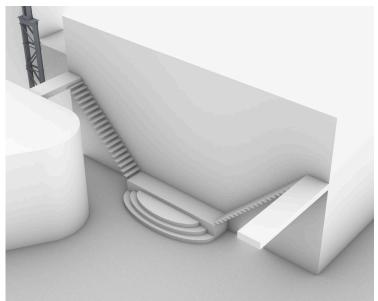
Forest pavilion

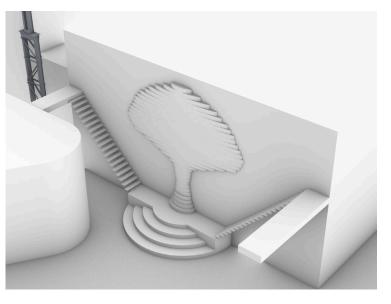


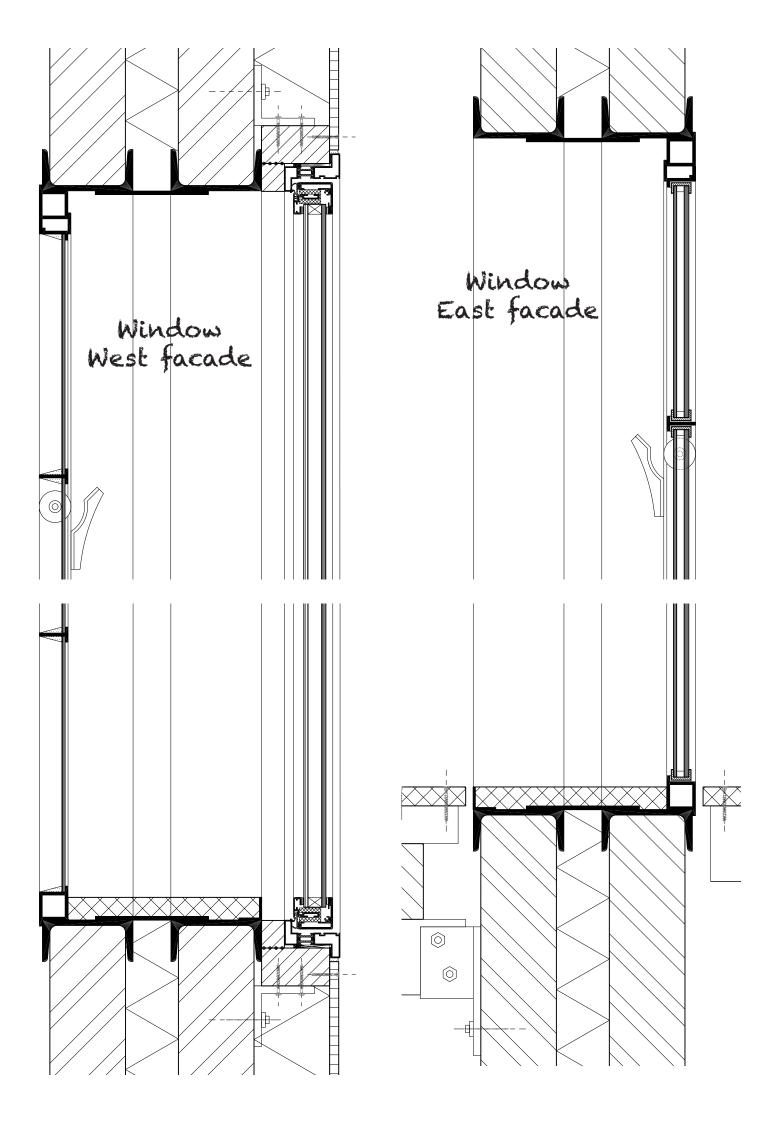
Artistic staircase experiment



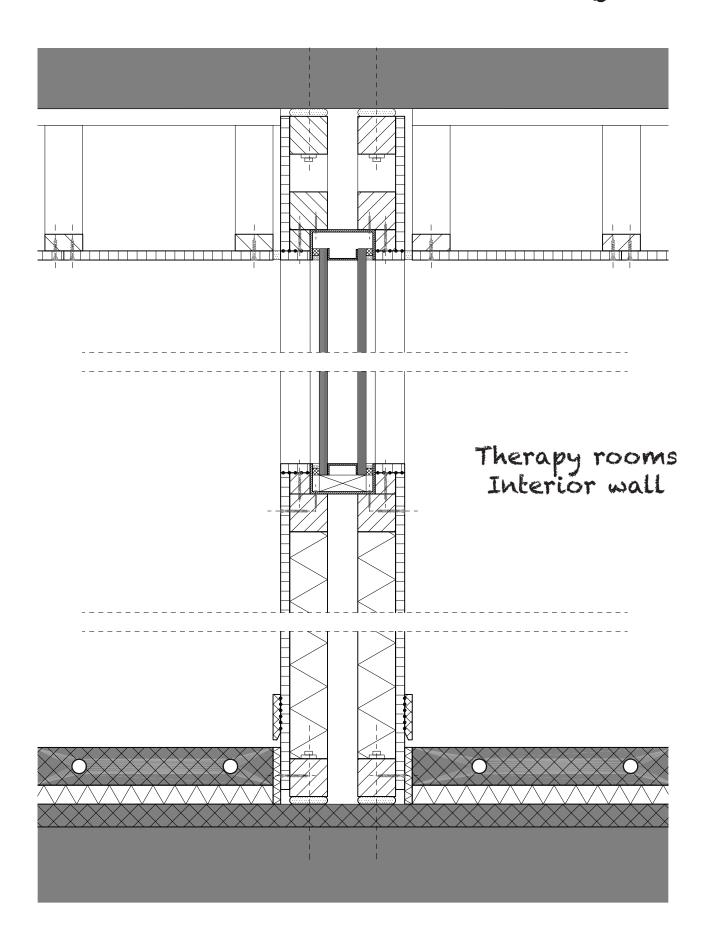


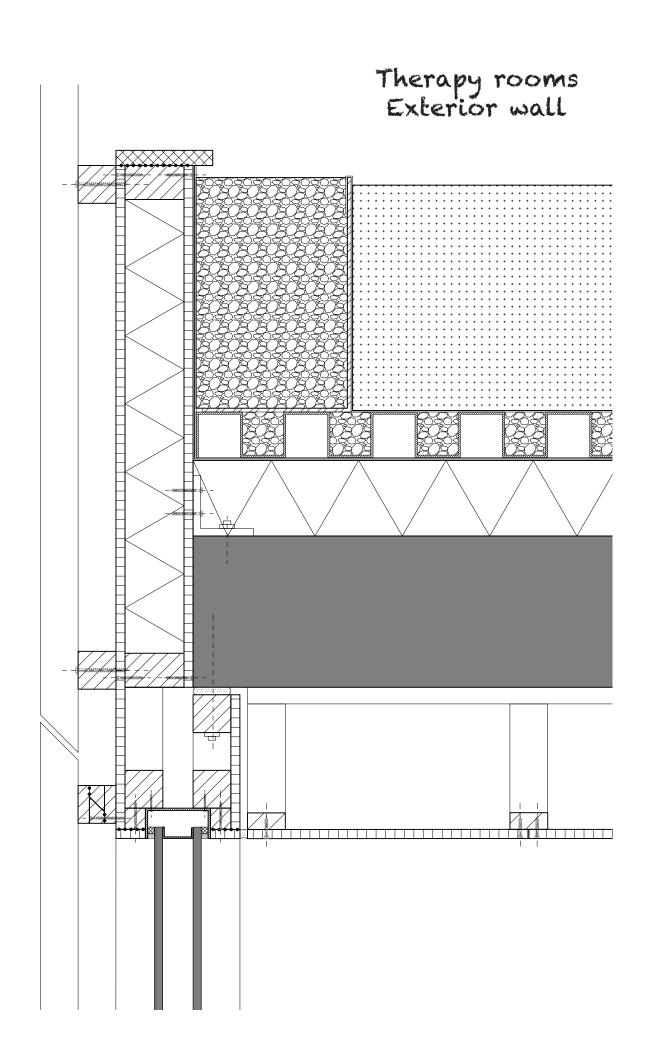






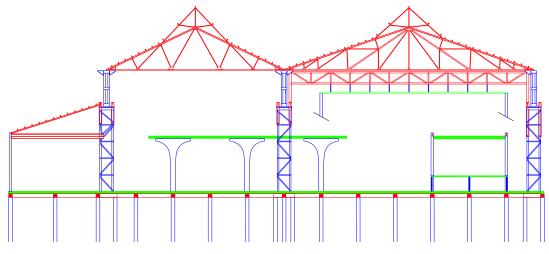
Detailing

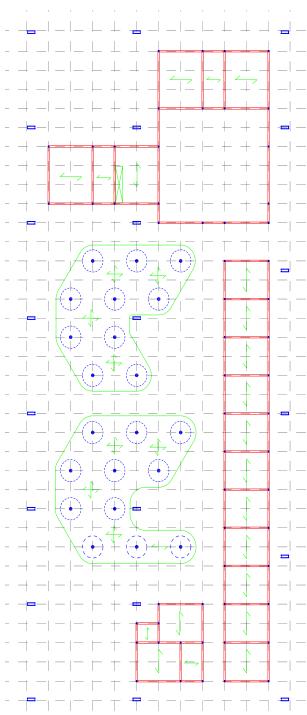


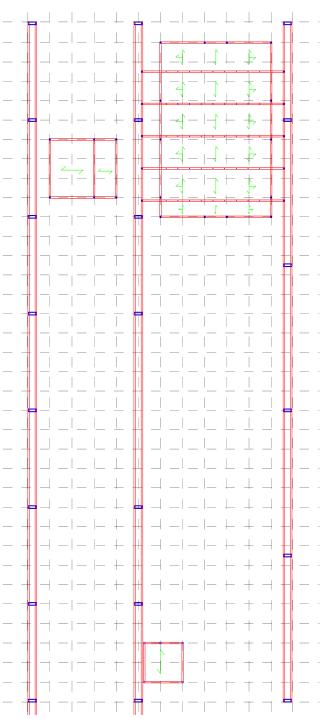


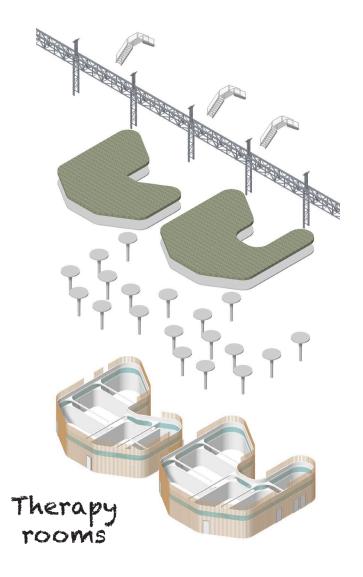
Week 3.2 17-02

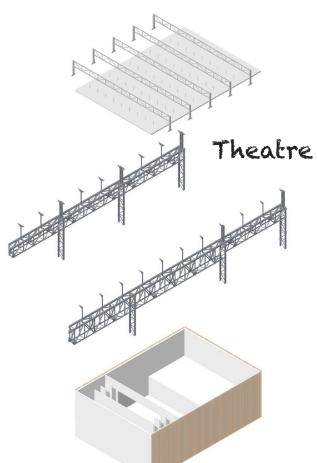
Construction



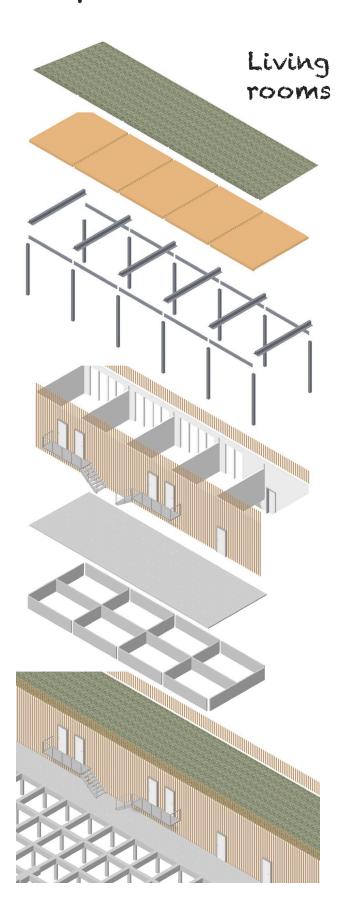






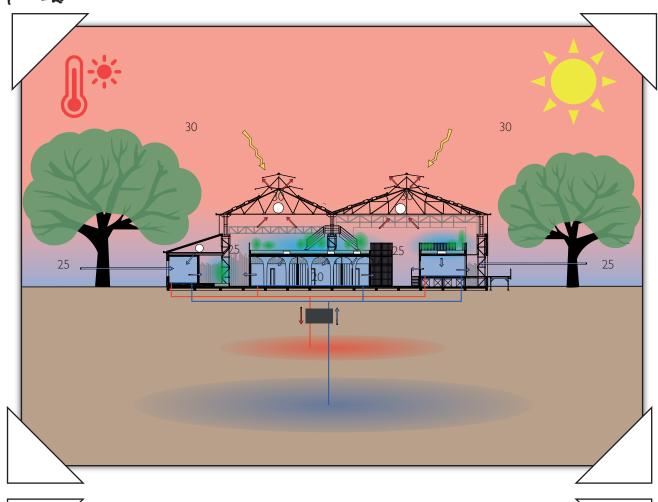


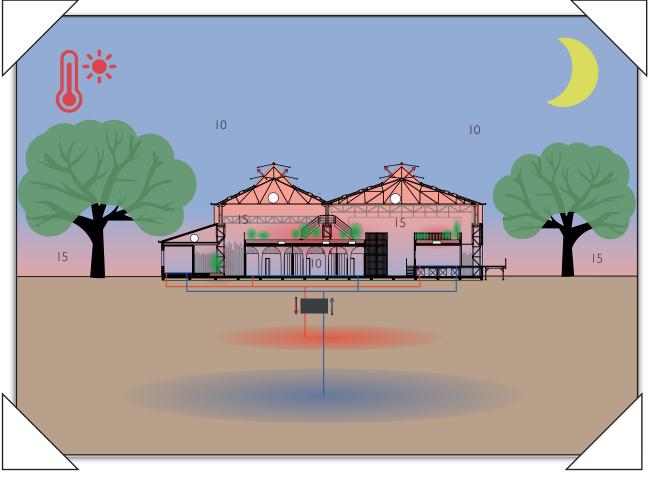
Isometric exploded view



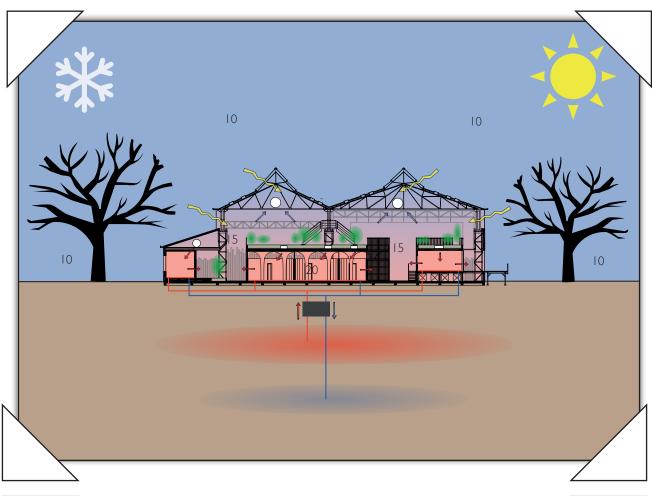
Week 3.3 24-02

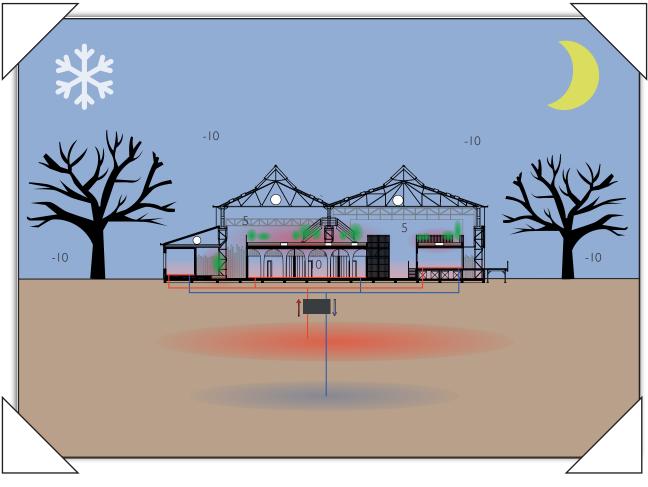
Summer





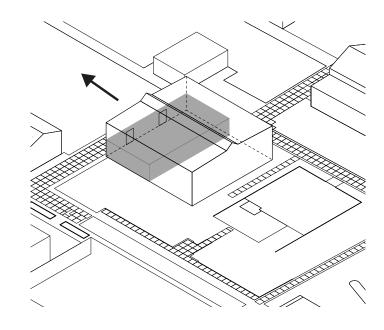
Winter

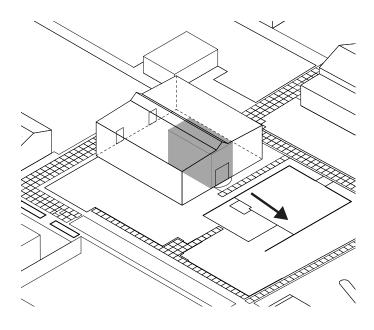


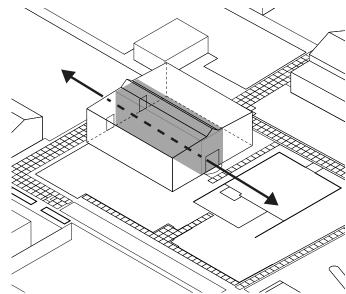


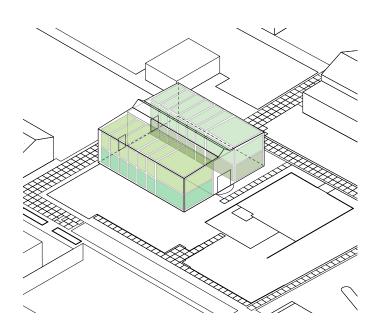
Week 3.4 02-03

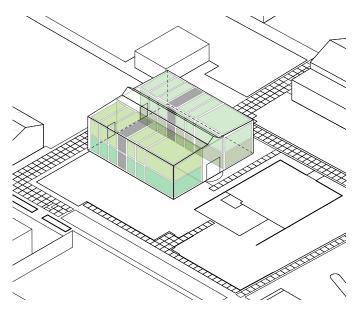
Concept Weapon Depot

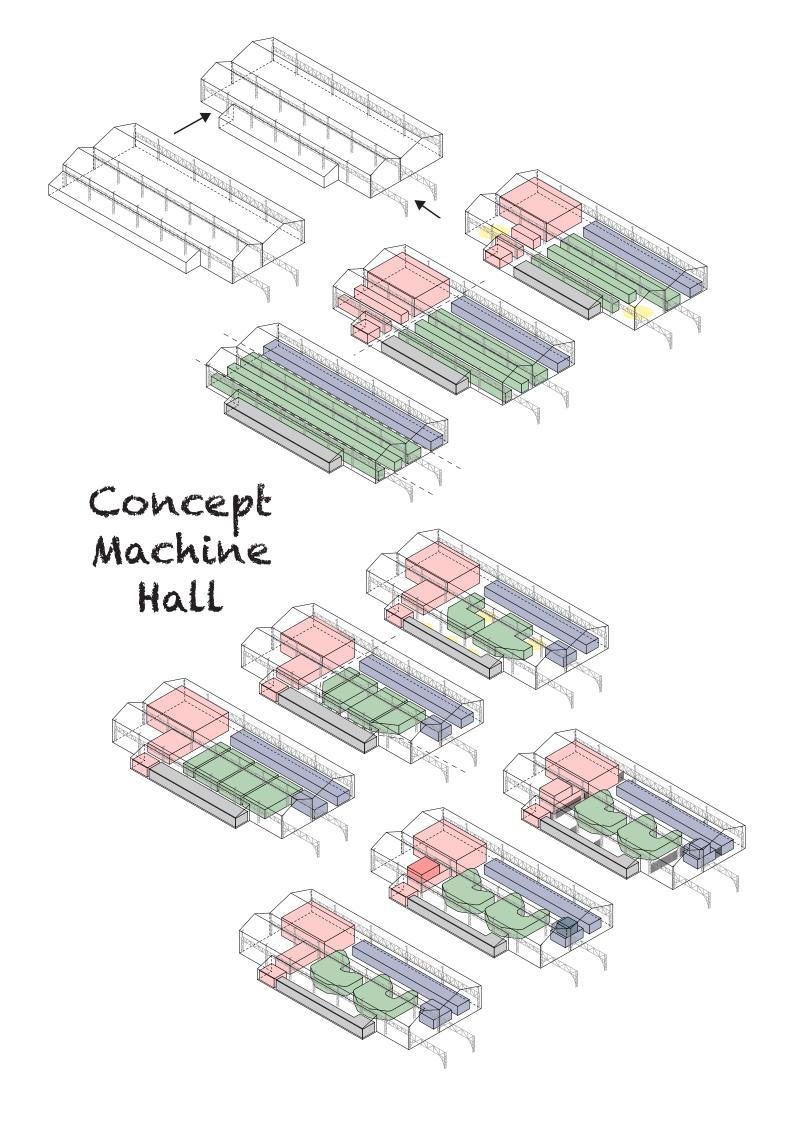






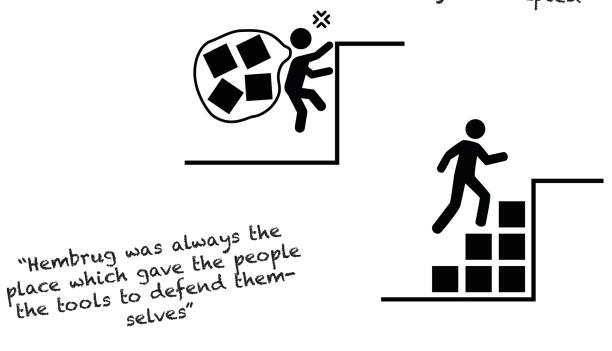




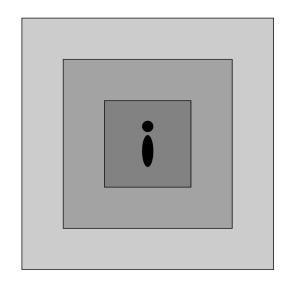


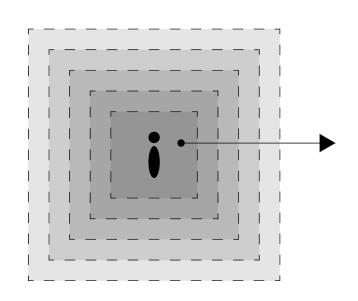
Concept

"The past cannot be changed, forgotten, edited or erased ...
It can only be accepted"

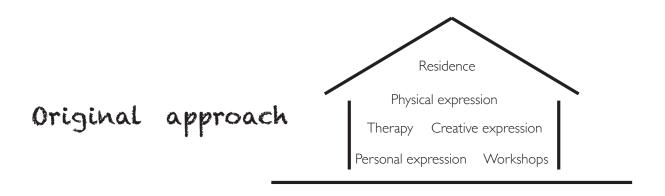


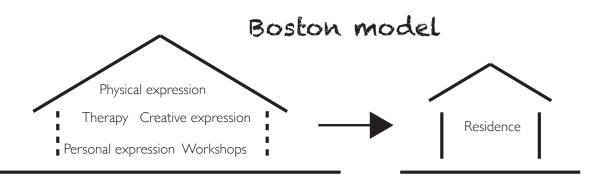
Layering in creating personal space and a protected environment



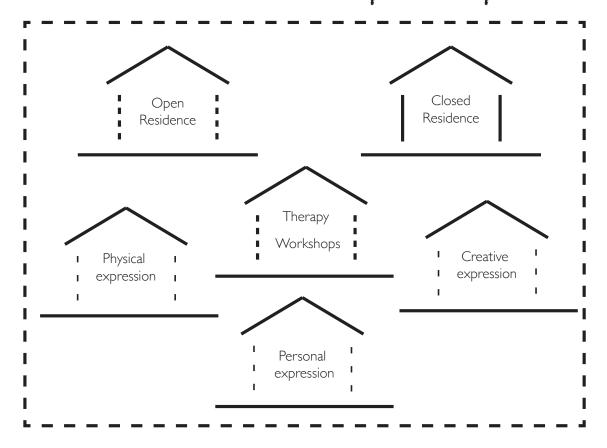


Functional concept of a mental health care





Multifuncional use 'open campus'



The 5 aspacts

Utilikarian

The function of architecture and the project

> Ethic Functionless and fake architecture

Complementary architecture Interdisciplinary designing in a search for complementary

Narrative Buildings The use of narrating and materializing in the research on cultural values

Raison d'être Research as a tool to justify the design

Reflection paper



Reflection and positioning

Symbiosis

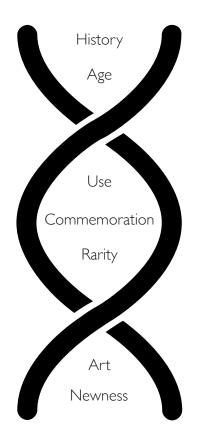
- 1 "The relationship between two different living creatures that live close together and depend on each other in particular ways, each getting particular benefits from the other."
- 2 "A relationship between people, companies, etc. that is to the advantage of both"

paper on the graduation project 'GGZ Hembrug'

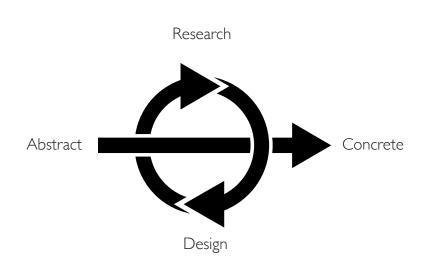
Conclusion

How can different research and design elements work in complementary way to substantiate the project?

In the graduation project is mostly search for a way of research and designing where multiple aspects can benefit from each other. By Looking at a project from this point of view architecture can work in a complementary way instead of a supplementary. Especially in heritage the new intervention can work as a symbiosis. The old and the new interact with each other and both achieve benefits from each other. In this way of thinking, one plus one is not two, it is three. The DNA of the old Building, his heritages, merges with the DNA of the new intervention and in this way new architecture is created with an even greater value.



The cultural values as DNA of the building,



The research and design process in a circular motion moving from abstract to concrete

