Fluid space - introducing an elastic activator substantiated by an intuitive exploration of finding forms in Liège

A compendium of the search to an architectural reaction on a fluid space.

Art and literature are forms that find a way to live on forever and inspire people. I consider architecture to be such a form as well. Architectural objects that fit harmoniously into their surroundings often find a way to house something or someone. However, there are also architectural objects that initially serve a functional role but over time lose their function and cannot change.

Sentence found in my first journal.

Fluid space or?

Non - places (Marc Augé) Empty spaces (Franck, K.A.) Informal space (Hudson, J.) Wastelands (Gandy, M.) Inbetween spaces (Ghel, J.) Terrain vague (Solà - Morales, Ignasi de) **(un)productive** - monofunction (productive for its function, non for its surroundings)

empty space - available for the unintended

abandoned - no visible ownership

indeterminate - no visible relationship between activities

fluctuating - visible activity change overtime

Spatial characteristics (Solà - Morales, Ignasi de. (1995). Terrain vague. In Cynthia Davidson (Ed.) Anyplace. Cambrige, MA: MIT Press.)



Map of identified Fluid spaces

Nr. 1 - (un)productive parkinglot under bridge

Nr. 2 - empty space inbetween tramdepot and bridge

Nr. 3 - flucuating space underconstruction

Nr. 4 - abandoned space inbetween buildings

Nr. 5 - fluctuating space underconstruction inbetween buildings

Nr. 6 - unproductive space closedoff

Nr. 7 - (inderterminate) non maintained space

Nr. 8 - flucuating space inbetween buildings

Nr. 9 - (un)productive garage space inbetween buildings

Nr. 10 - time (un)productive space supermarket parking

Nr. 11 - time (un)productive space tunnel

Nr. 12 - unproductive space closedoff

Nr. 13 - empty space

Nr. 14 - (un)productive garages inbetween buildings

Nr. 15 - empty unproductive space

Nr. 16 - abandoned non used venue

Nr. 17 - indeterminate space on a corner

Nr. 18 - abandoned building

Nr. 19 - (un)productive garage space

Nr. 20 - fluctuating space under construction

Nr. 21 - (un)productive space parkinglot

Nr. 22 - time unproductive space parking supermarket

Nr. 23 - flucuating entrance space to innercourt

Nr. 24 - (un)productive garage space inbetween buildings

Nr. 25 - indeterminate space

Nr. 26 - abandoned house

Nr 27. (un)productive reclycle lot

Spatial characteristics (Solà - Morales, Ignasi de. (1995). Terrain vague. In Cynthia Davidson (Ed.) Anyplace. Cambrige, MA: MIT Press.)

Social lens - mapping activities or possible activites Soc

Soc. (abbreviation in drawing)

Ecological lens - mapping different gradations in an ecological perspective

Eco.

Material lens - mapping of external features (visual)

Mtrl.

Mapping dimensions by cartopology method (Dearhunter (2018), method cartopologie)



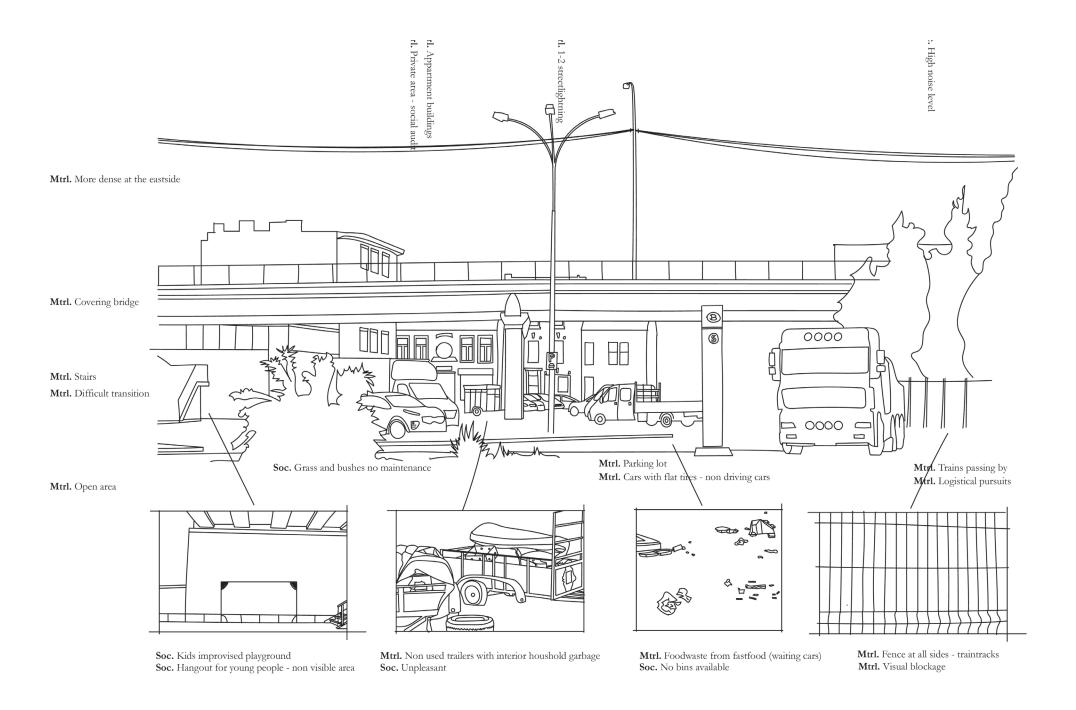
Summery of analyzed spatial characteristics in Liège



Nr. 1 - (un)productive parkinglot under bridge

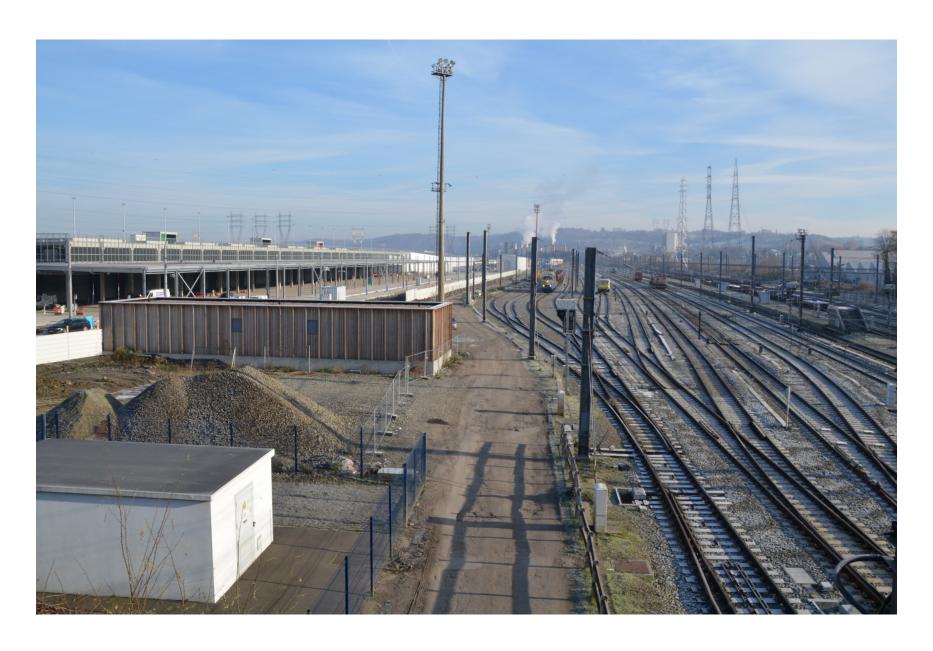


Nr. 1 - (un)productive parkinglot under bridge

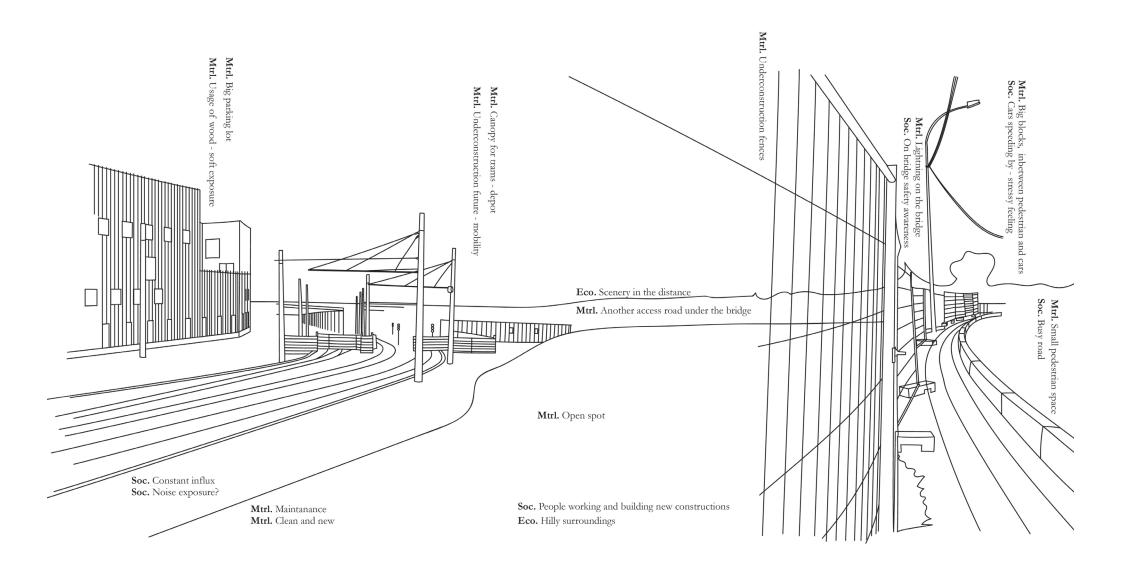


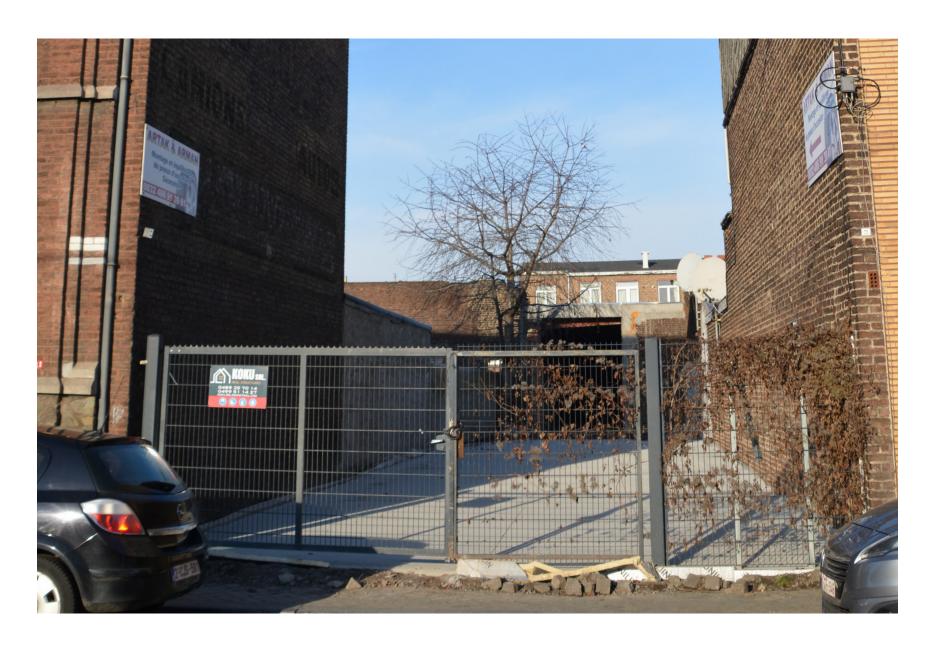


Nr. 2 - empty space inbetween tramdepot and bridge



Nr. 2 - empty space inbetween tramdepot and bridge

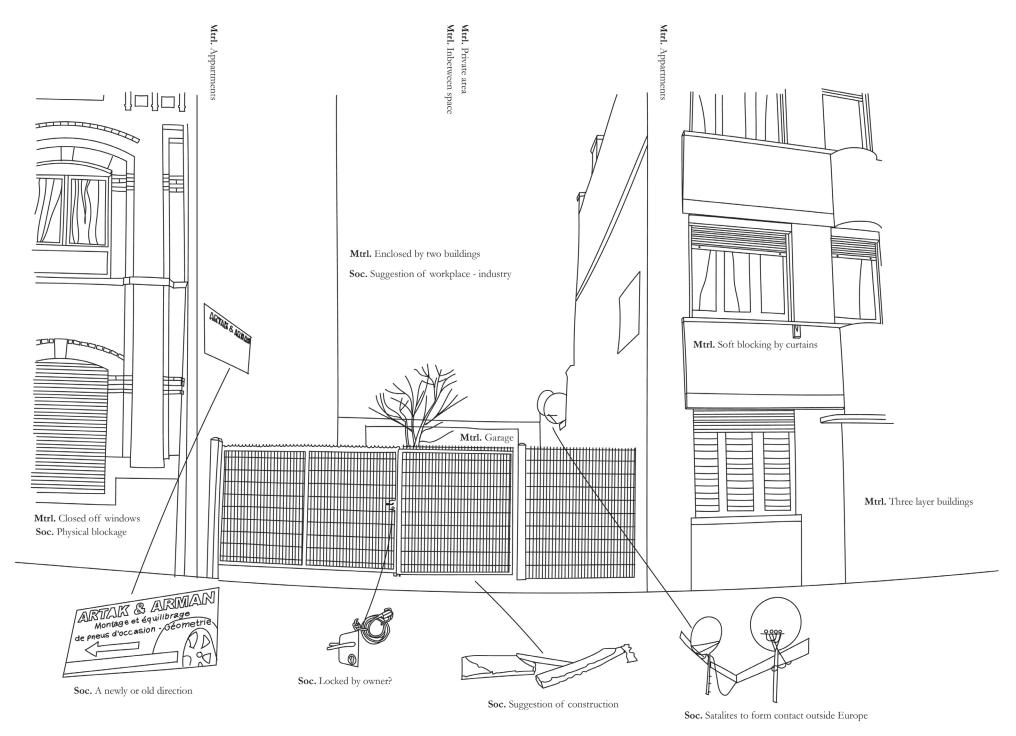




Nr. 5 - fluctuating space underconstruction inbetween buildings



Nr. 5 - fluctuating space underconstruction inbetween buildings



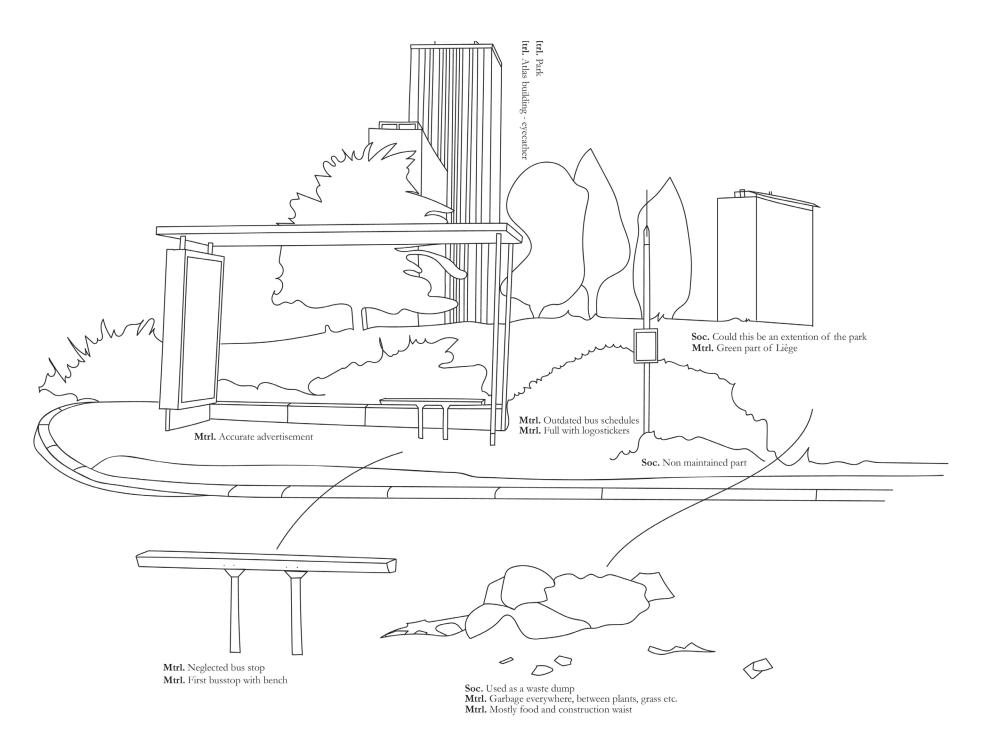
Nr. 5 - fluctuating space underconstruction inbetween buildings



Nr. 7 - (inderterminate) non maintained space



Nr. 7 - (inderterminate) non maintained space

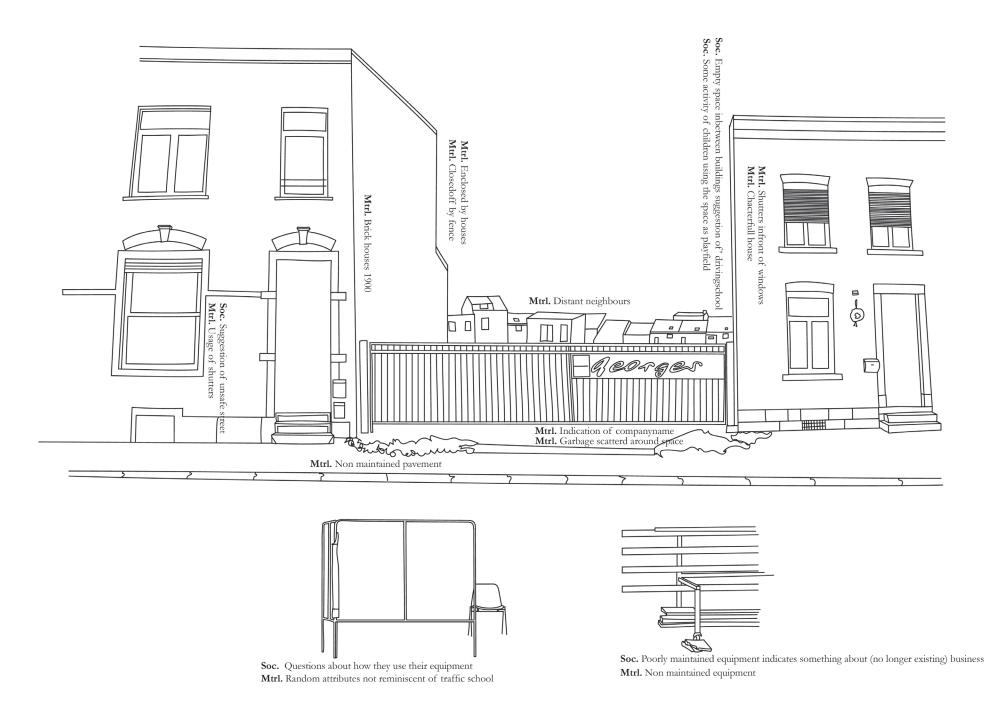




Nr. 8 - flucuating space inbetween buildings



Nr. 8 - flucuating space inbetween buildings



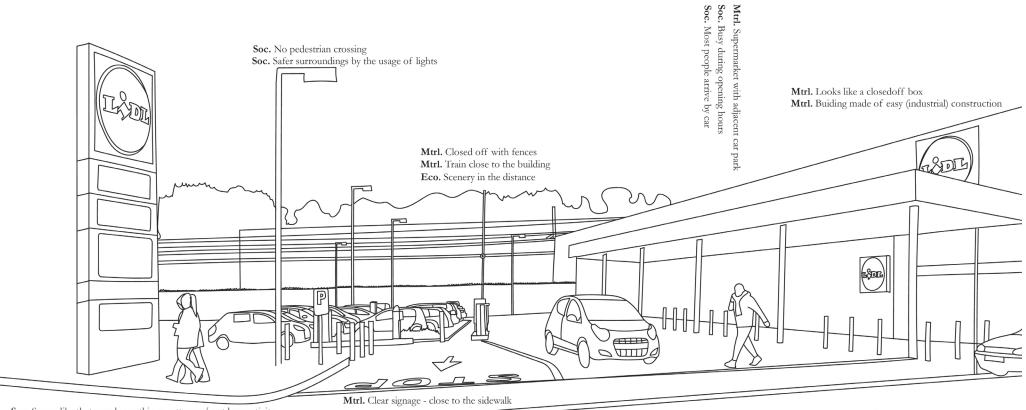
Nr. 8 - flucuating space inbetween buildings



Nr. 10 - time (un)productive space



Nr. 10 - time (un)productive space



Soc. Seems like that people see this as gettaway / outdoor activity



Mtrl. Logo is visual from all sides

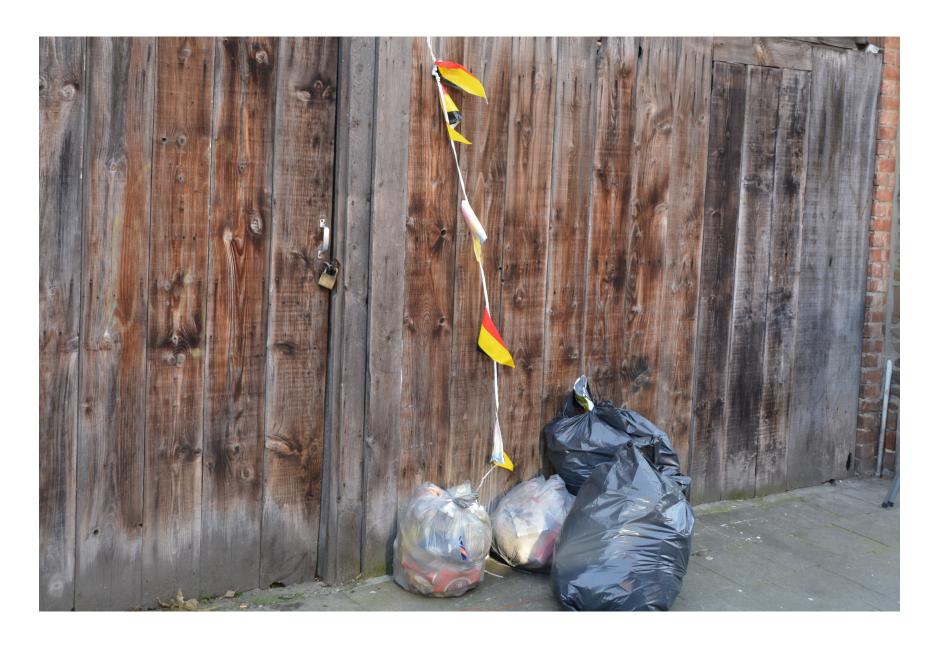
Soc. Suggest een lowcost supermarket in the neighbourhood



Mtrl. Everywhere around the space Soc. People don't take the responsibilty of the shoppingcars



Nr. 12 - unproductive space closedoff



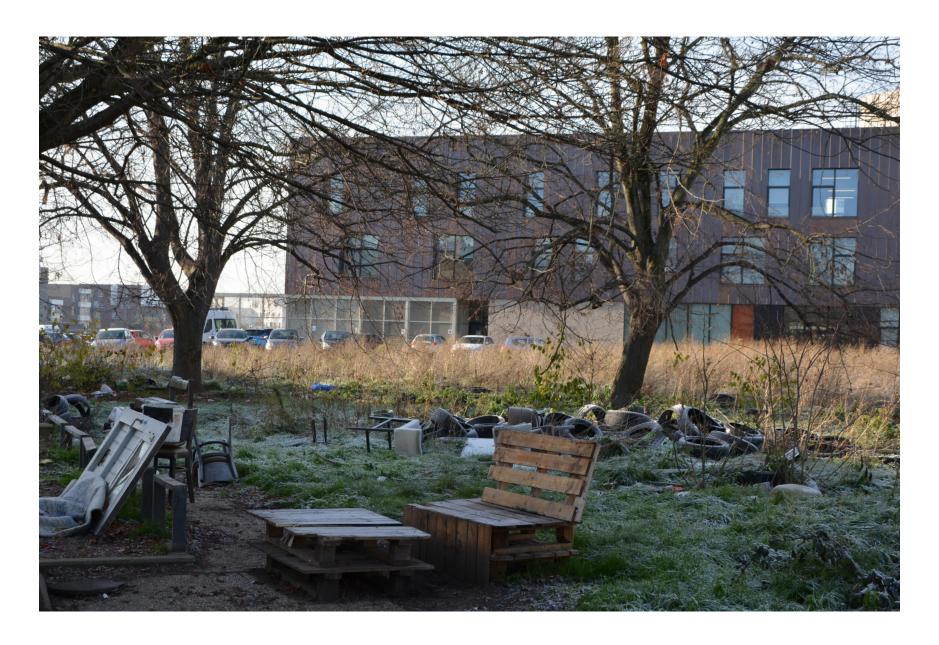
Nr. 12 - unproductive space closedoff



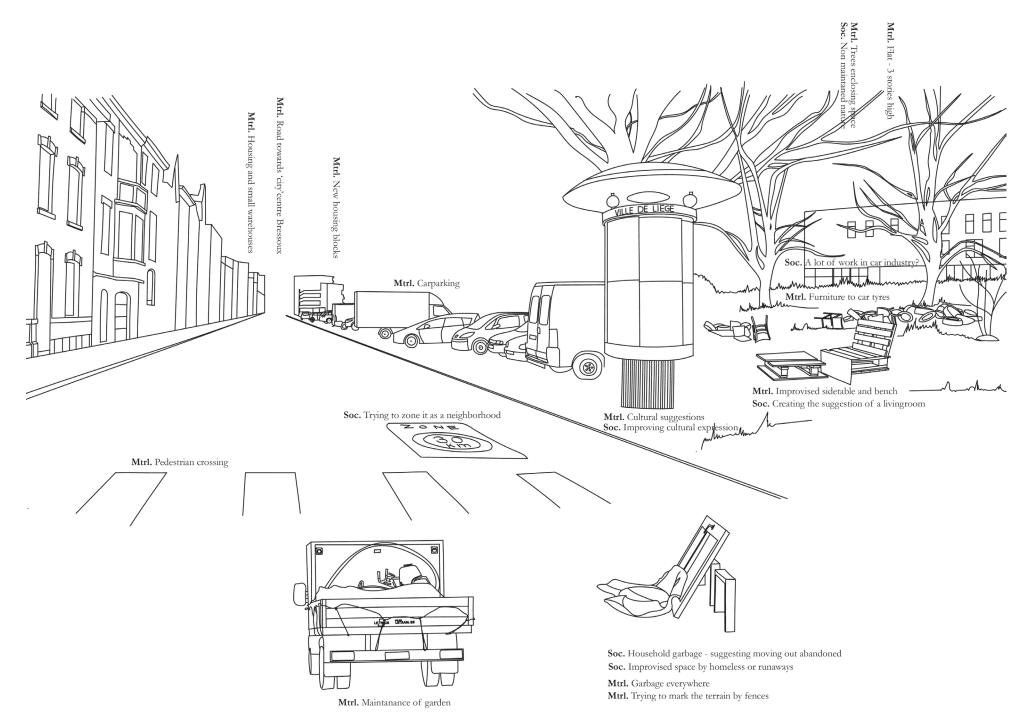
Nr. 12 - unproductive space closedoff



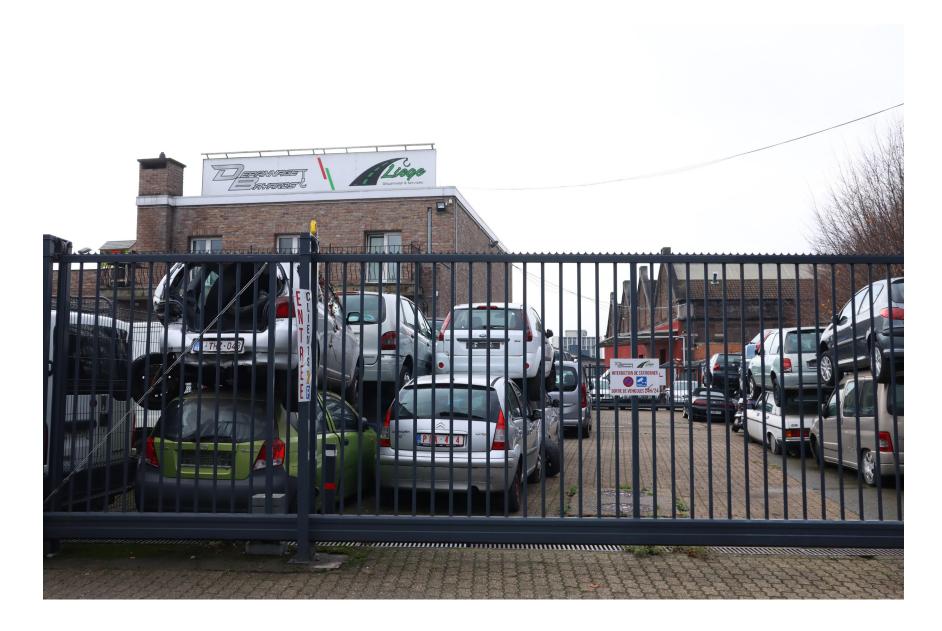
Nr. 17 - indeterminate space on a corner



Nr. 17 - indeterminate space on a corner



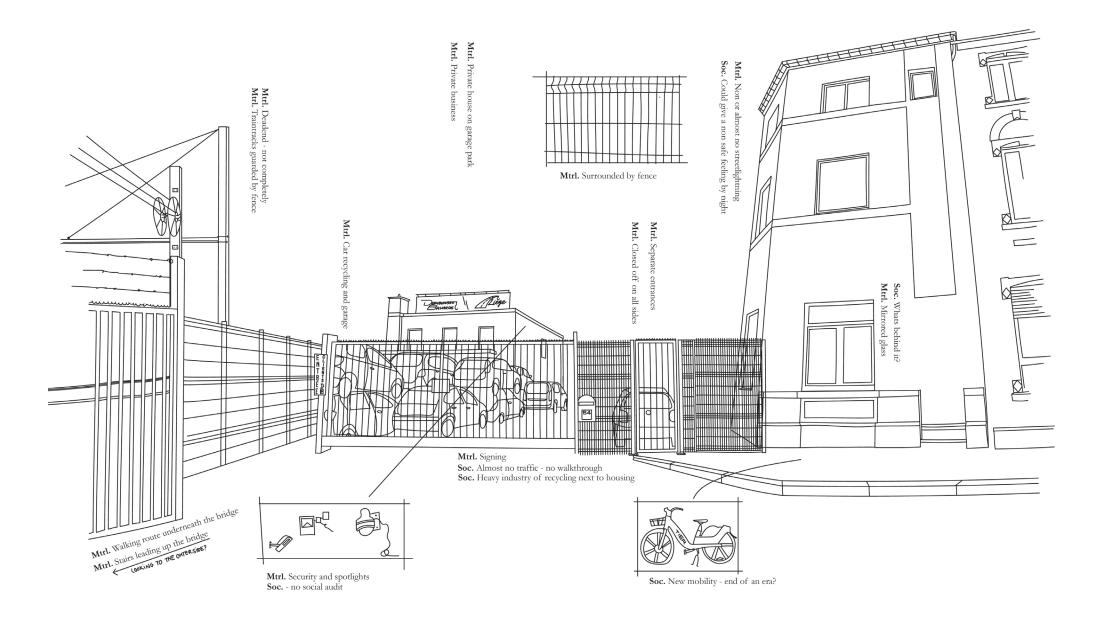
Nr. 17 - indeterminate space on a corner



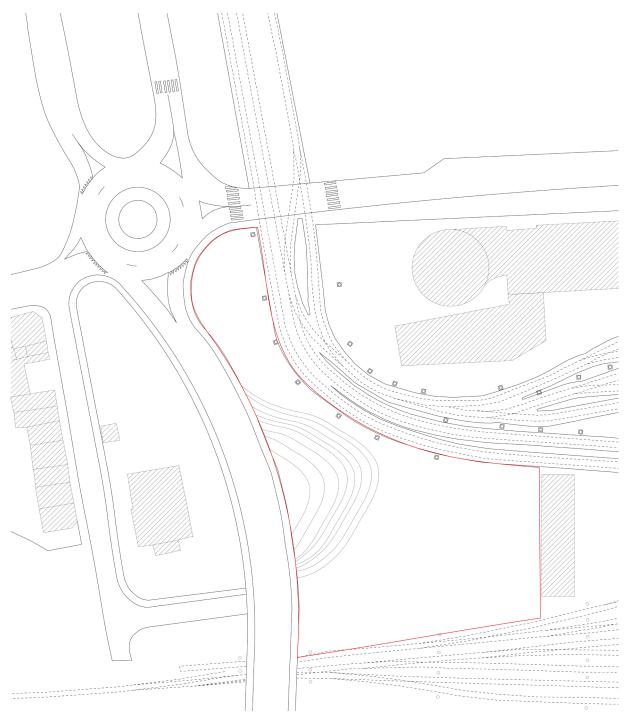
Nr. 27 - (un)productive recyle lot



Nr. 27 - (un)productive recyle lot







Major influences of the tram, train and bride. The site is about 4450 m2. About the size of a footbal field.

Fluid spaces - Van Oeveren, I.M. The type of urban space I have observed in Liège.

As for me as a researcher:

Fluid spaces refer to empty, overgrown, or neglegted spaces within the city, but most important, with a certain amount of visible potential fluidity.

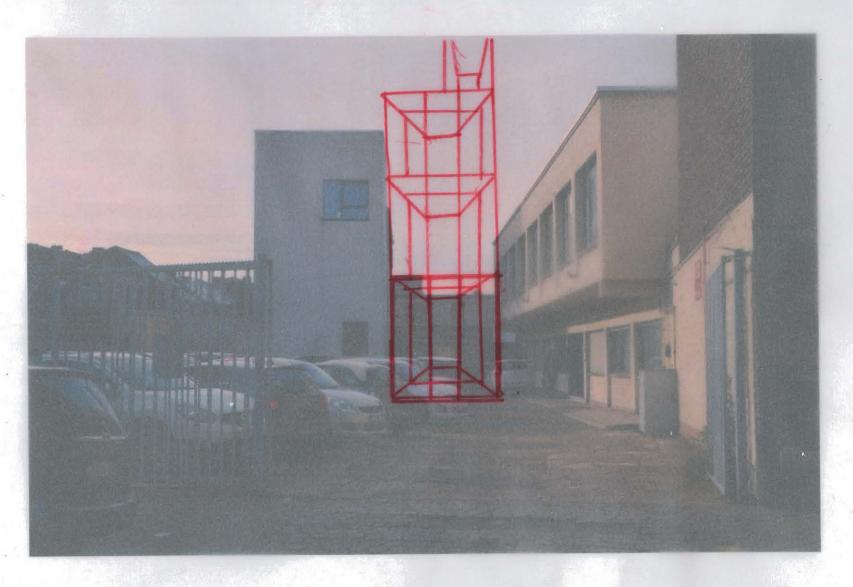
Fluid spaces have the potency to be highly malleable and dynamic environments.



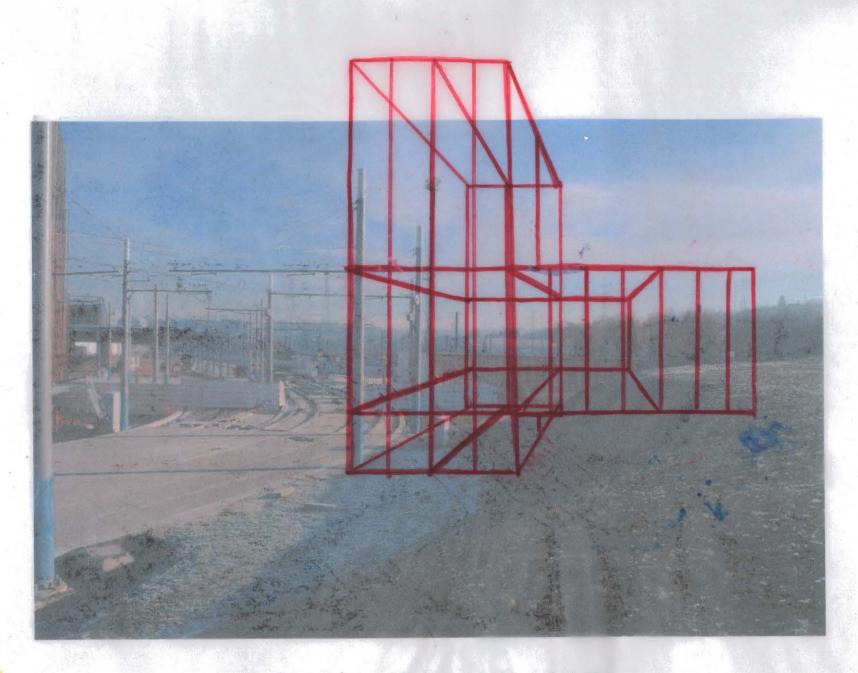
A kineograph of exploring an elastic activator - hand-drawn wire models on chalk paper and photo presented in a flipbook

A selection of exploring an elastic activator - hand-drawn wire models on chalk paper and photo

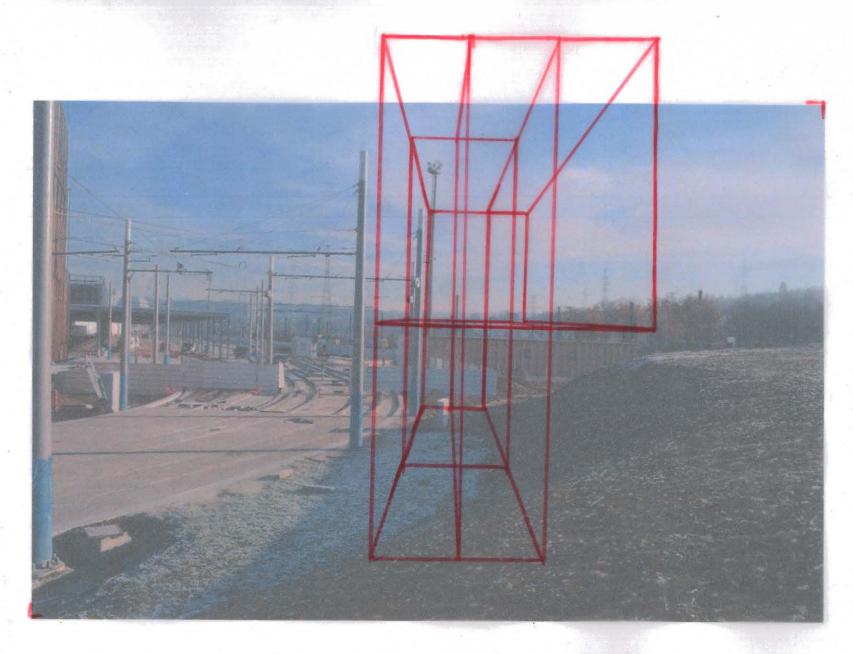
The intuitive approach to the project allowed me to let my initial thinking flow from form rather than function .



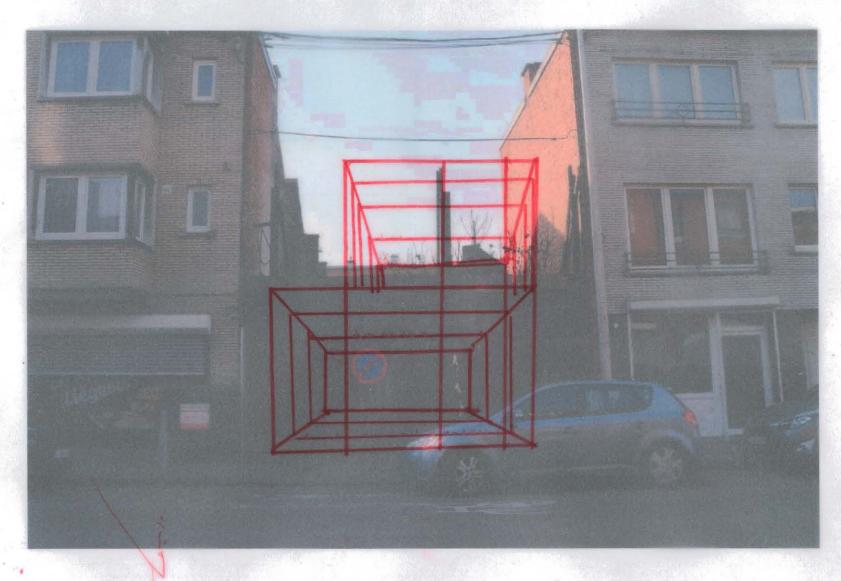
Nr. 21 - (un)productive space parlanglot



Nr. 2 - empty space inbetween transdepot and badge

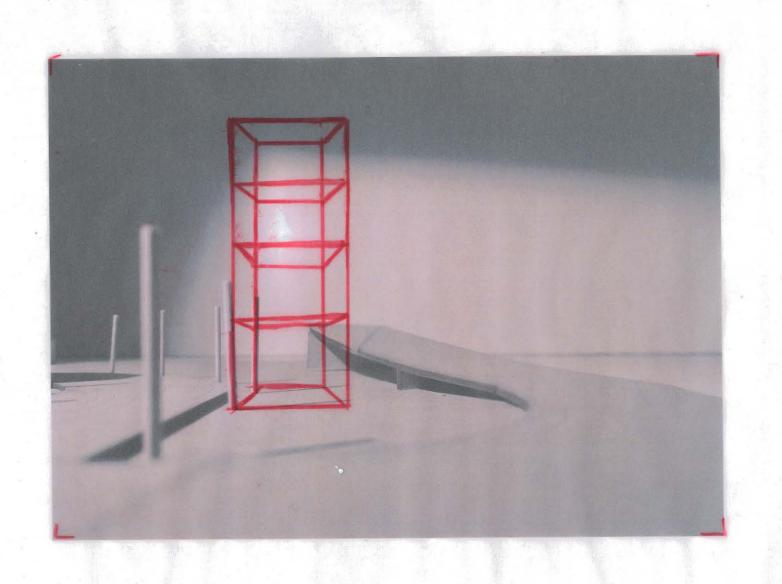


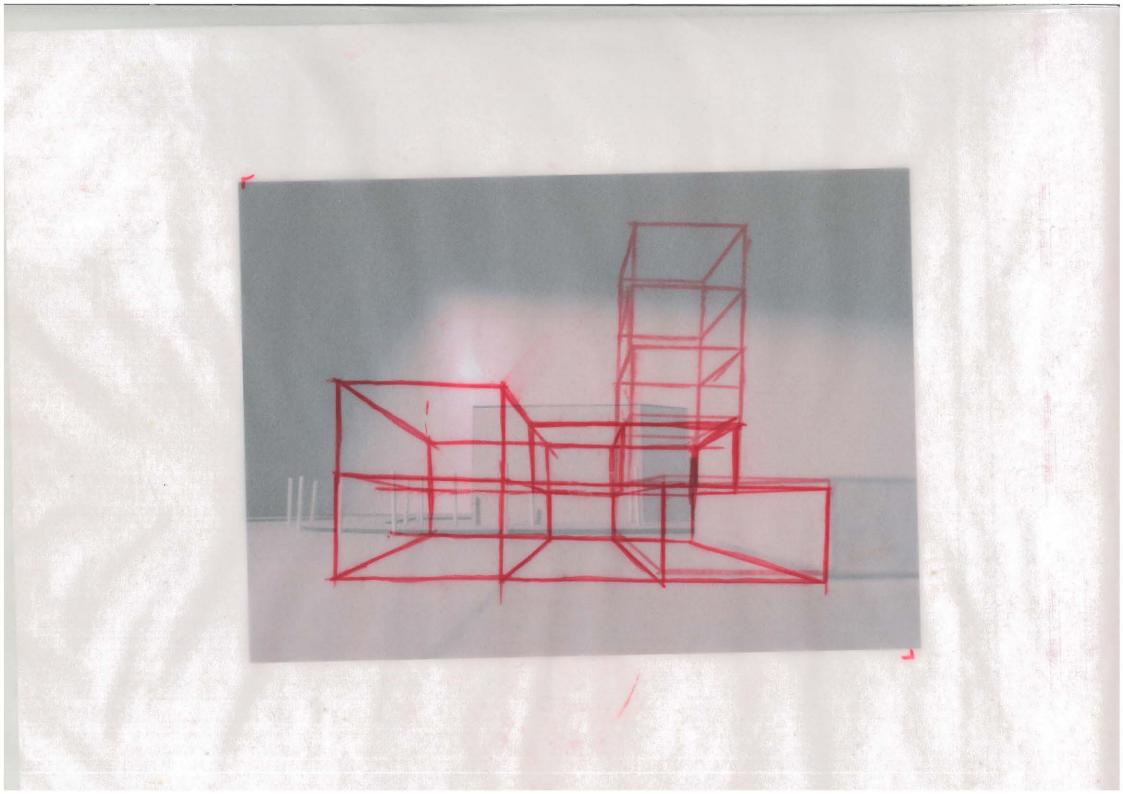
Nr. 2 - empty space inbetween tramdepot and bridge

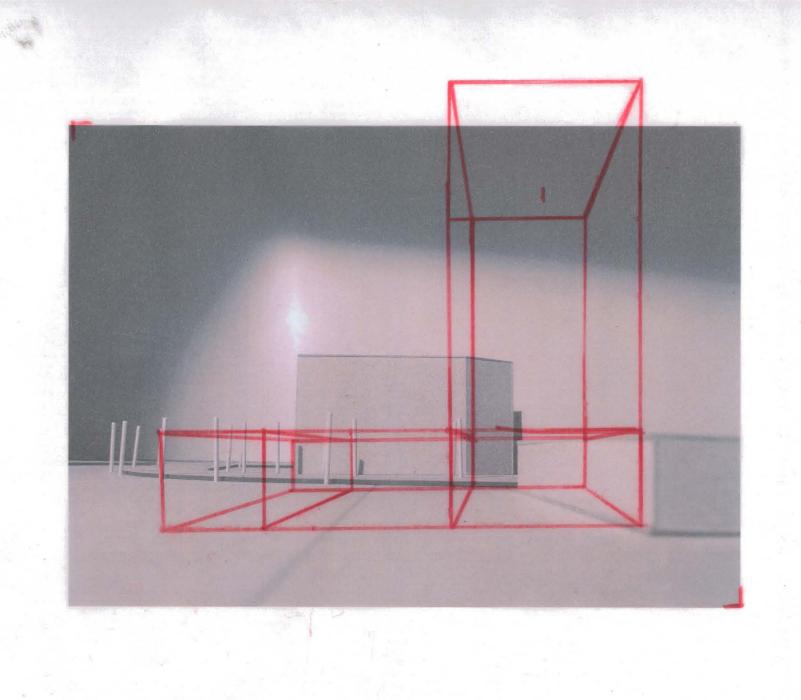


Nr. 12 - unproductive space closedoff

What culminated in a follow-up in a 1:200 model of the site - a selection of where hand-drawn wire models could be fitted into the site

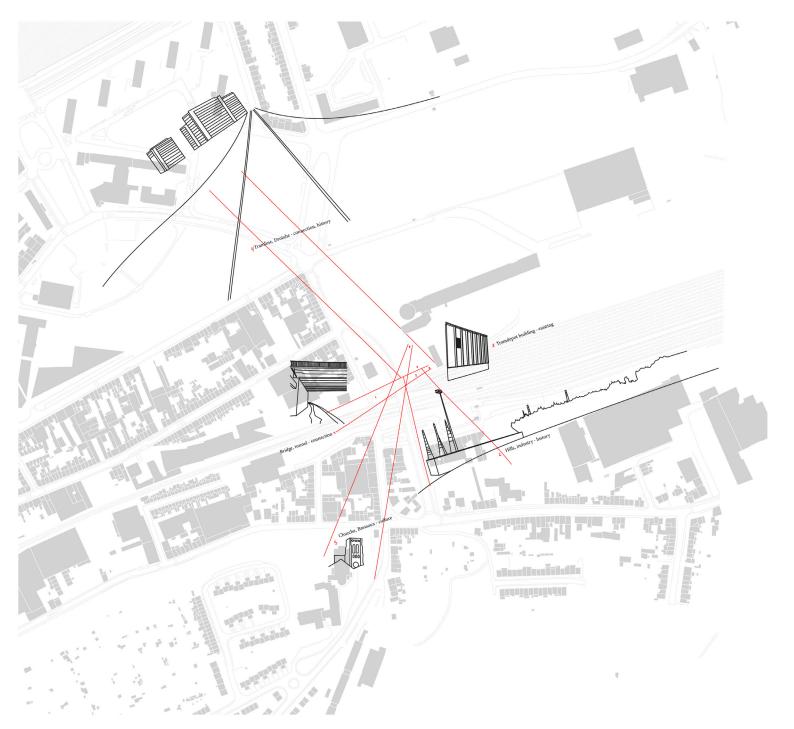






Context in architectural design means using external elements to influence the design process.

These elements can be divided into physical and non-physical elements. Physical elements include things like roads, land contours, and sight lines, while non-physical elements encompass intuitive constraints and the sense of shapes.



(Asking the question "What did I see on sight, which could be an inportant visual in the design?") Sight lines in the Fluid space

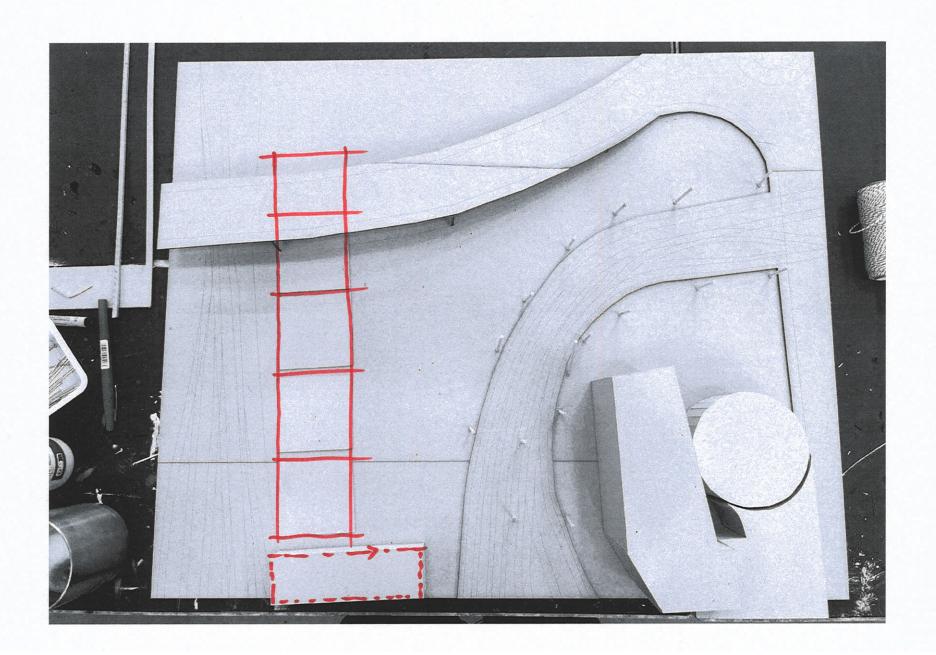
Using external elements on site made it crucial to have a good understanding of the site. Experimenting with different proportions and sizes, starting with a 2D representation of a grid and later to a 3D grid.

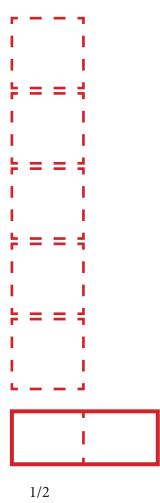
These tests helped me grasp the dimensions, depth, and overall environment. I focused on identifying the key elements in the surroundings and instinctively gravitated towards them when making design decisions and establishing proportions.

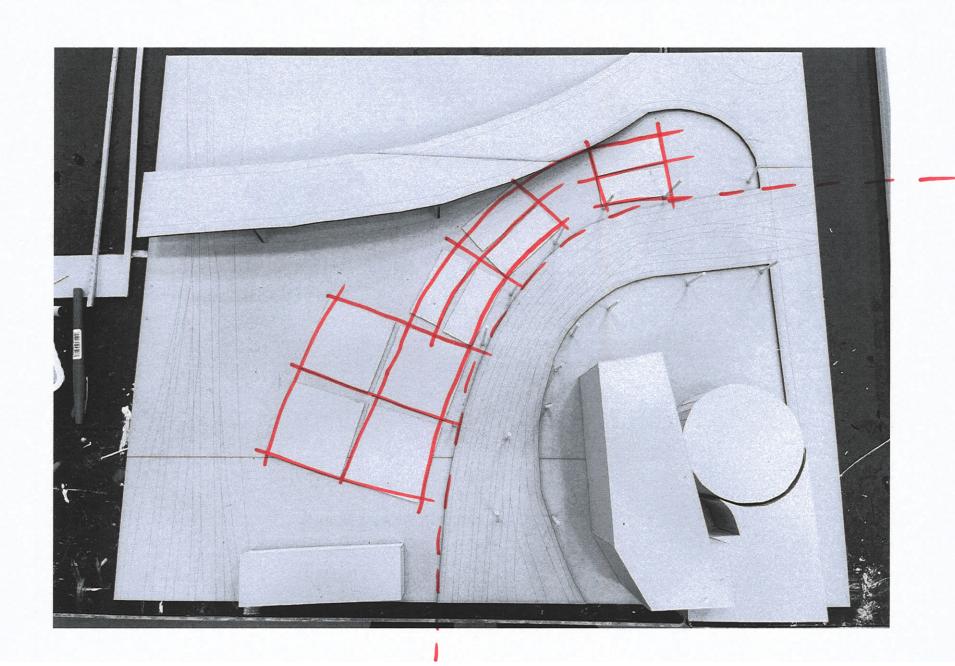


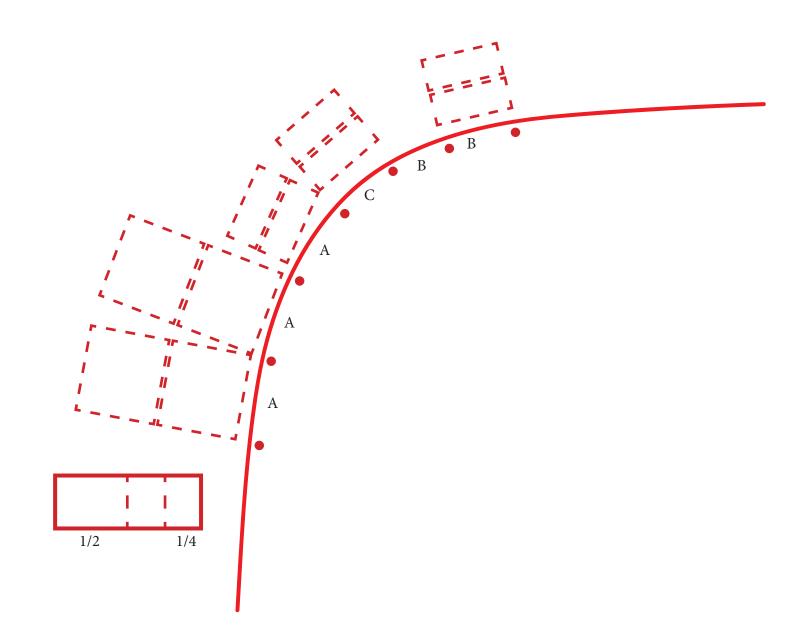
A kineograph of an intuitive grid - hand-drawn and physically formed cards and blocks grids on photos presented in a flipbook

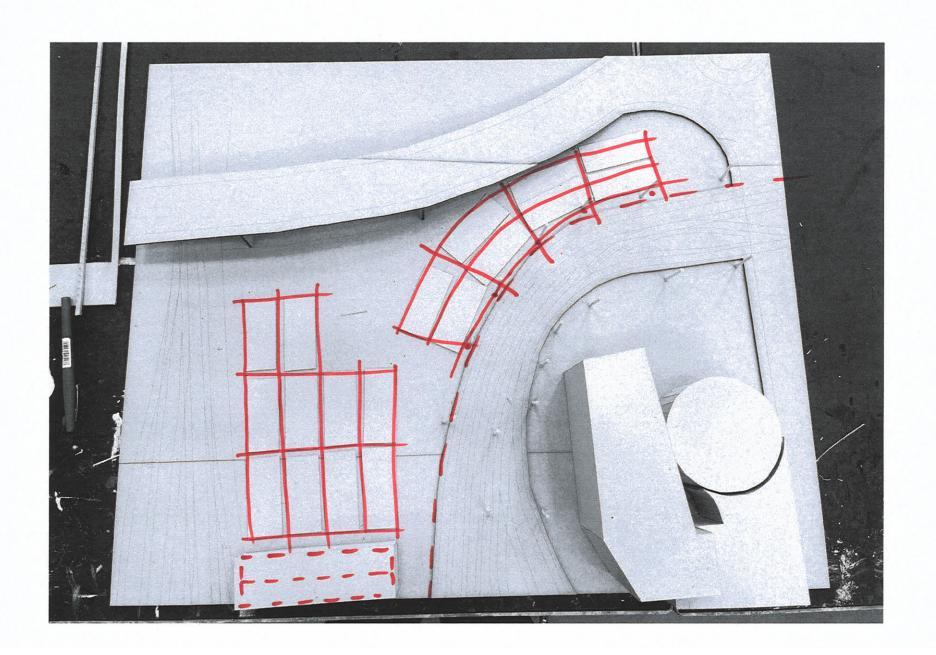
A selection of introducing an elastic activator - representing potential proportions to form a grid

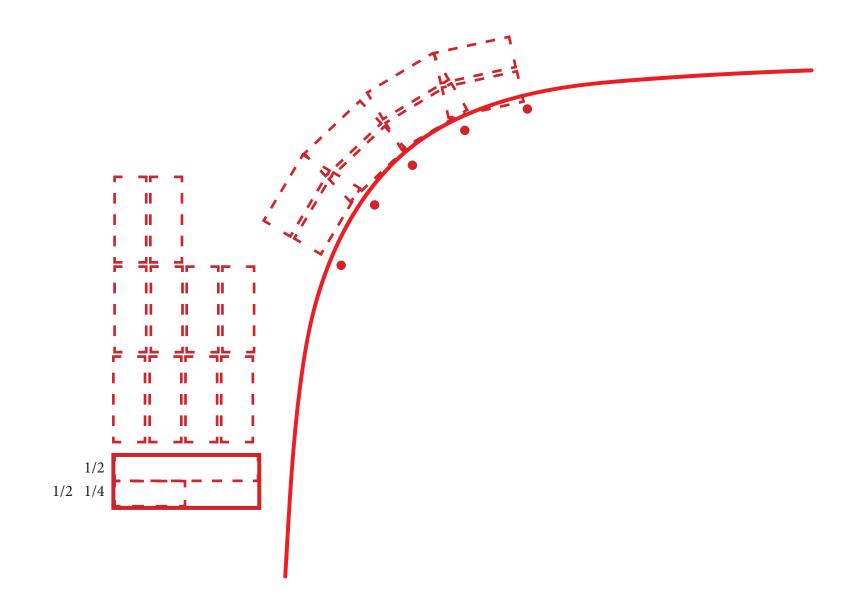


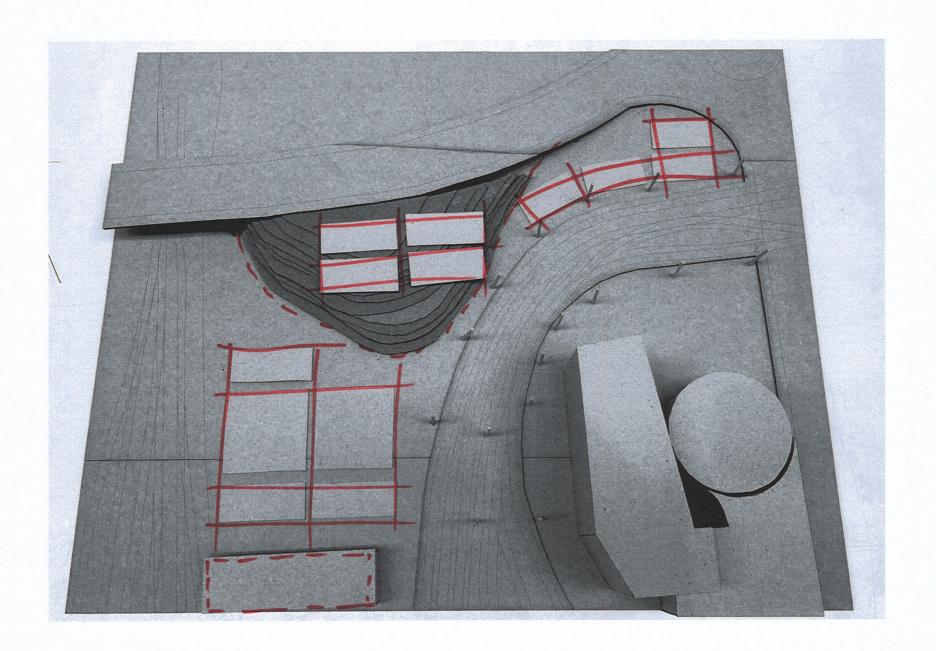


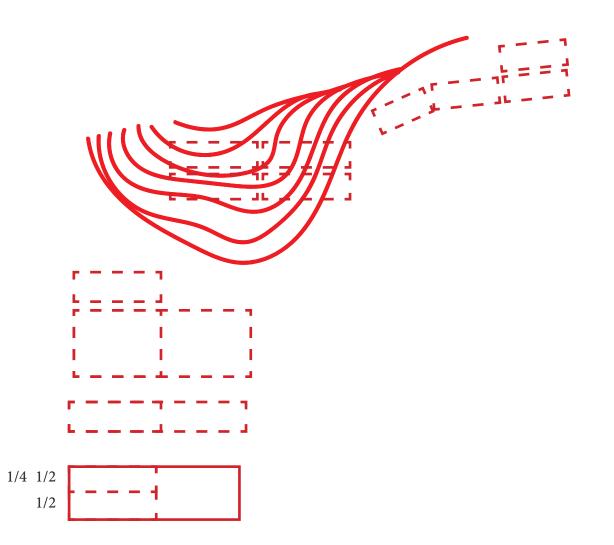


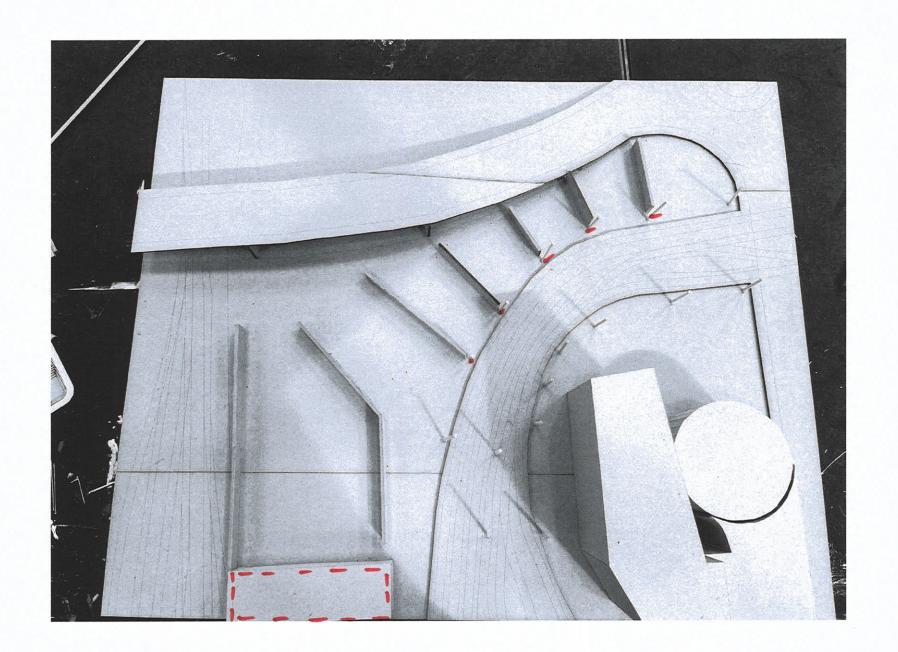


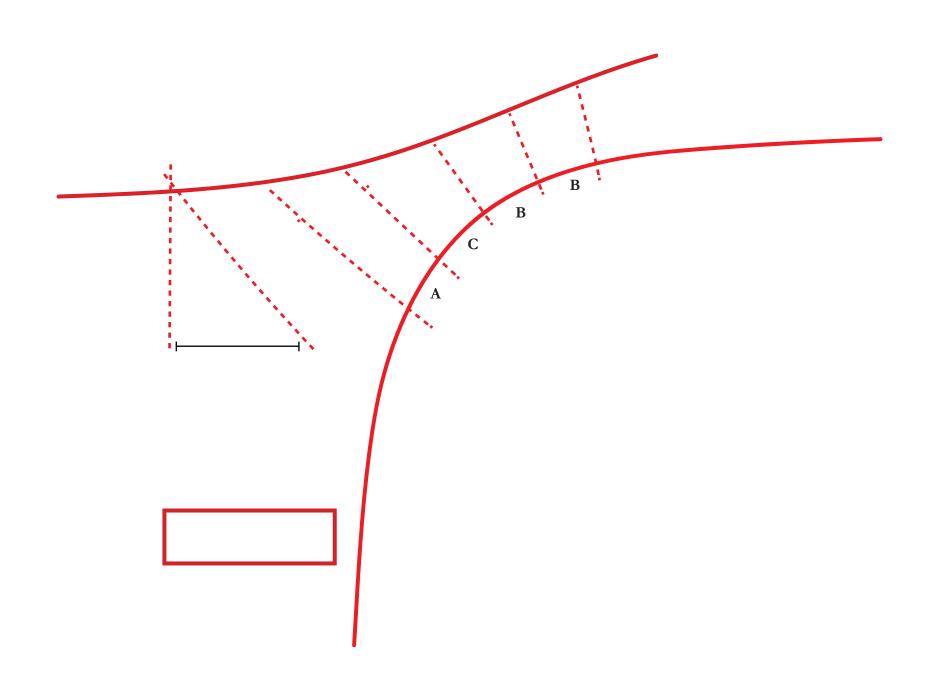


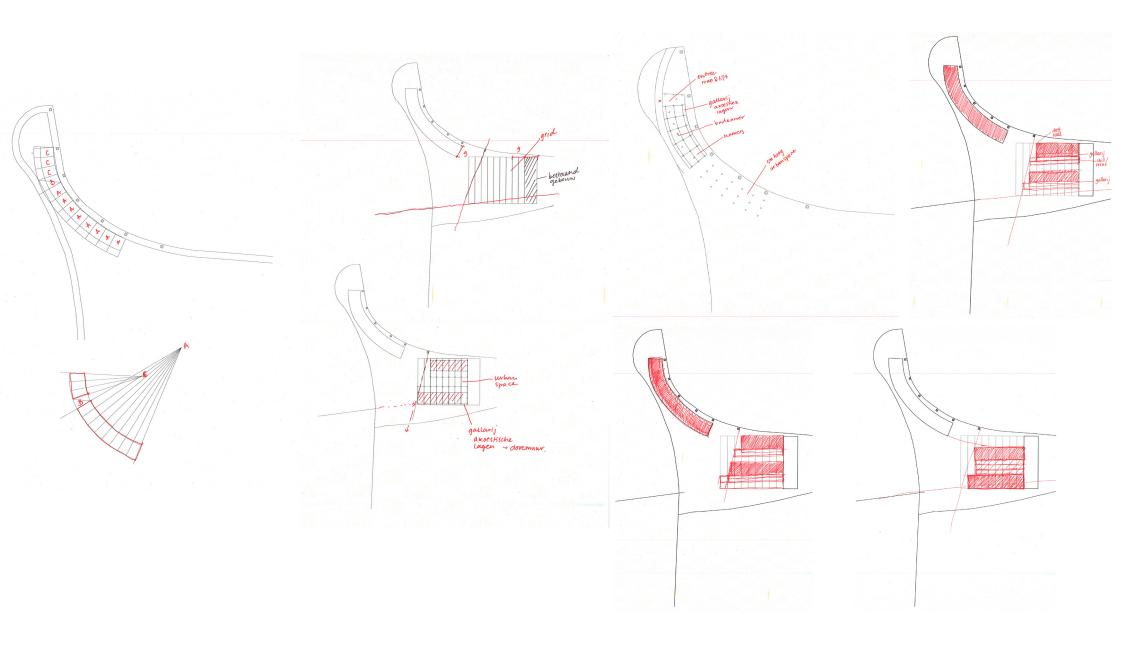


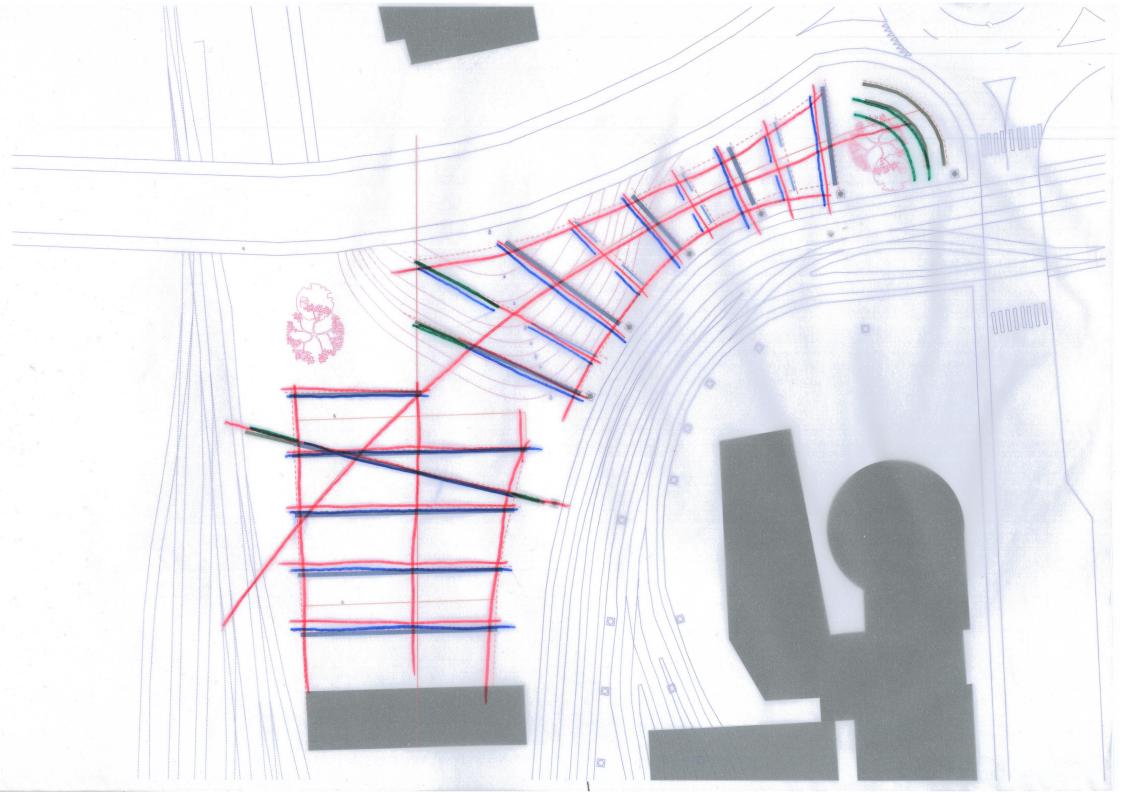








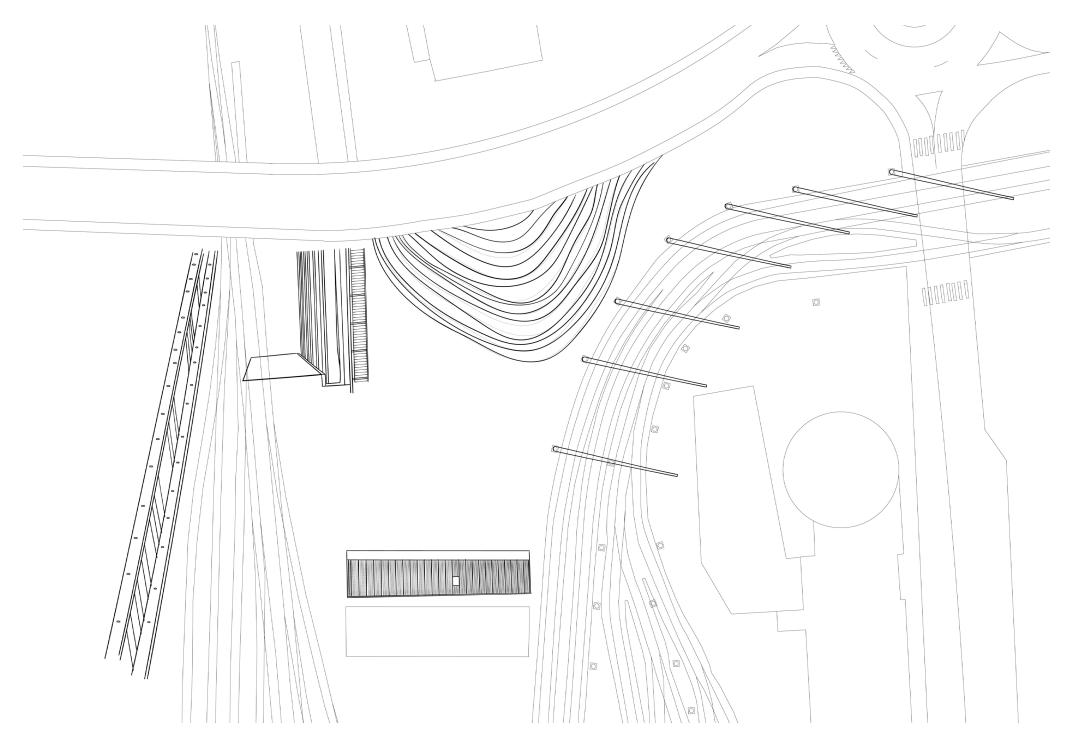




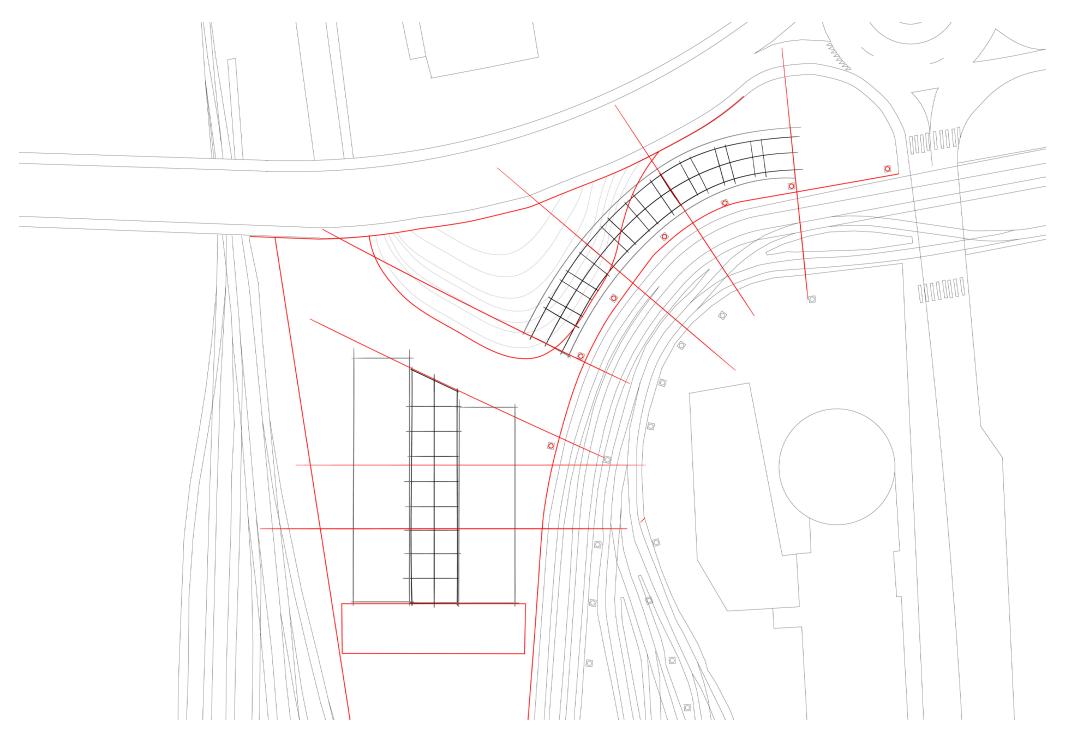
This 2D grid exploration is considered as a new proportion system of the site - the following summery showed how the 3D versions could have more infuence on the grid and are explored the next phase.

The grid should be designed to match the specific urban and natural environment.

Instead of reflecting the architectural style of the surroundings, the grid takes into account both the immediate and broader context of the urban setting. It incorporates the high potential characteristics of the surrounding area into its design (*researched in the qualities of a fluidspace*).



Physical and non-physical elements in the site were observed

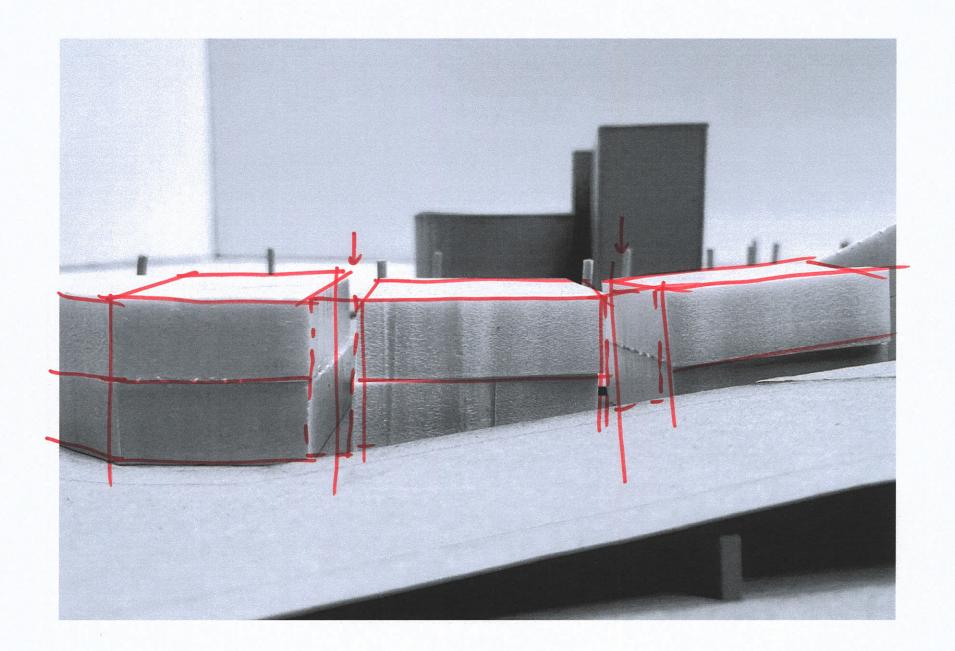


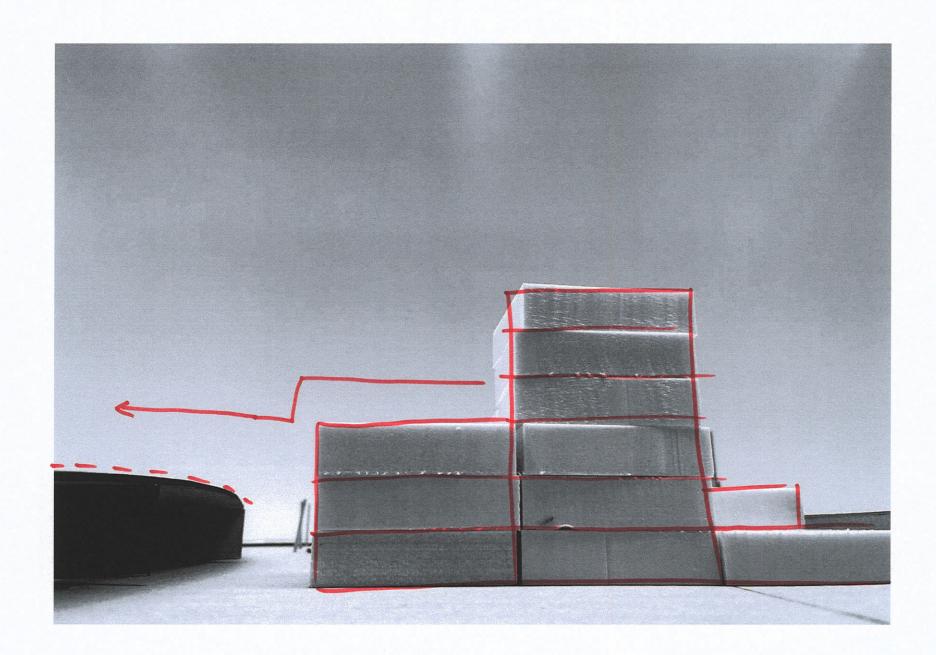
Forms and elements considered to be taken into the grid.

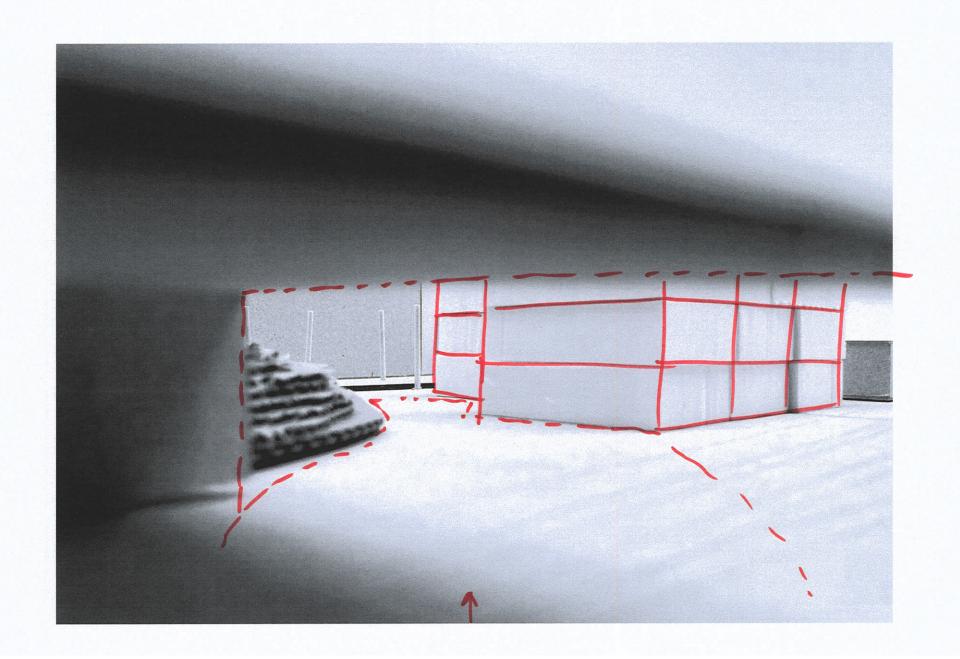


A kineograph of finding forms - a 3D study on how the form of physical and non-physical elements effect a building design

A selection of finding forms - foam blocks with red hand-drawing to represent potential infulential forms in the site







To create architecture that harmonizes with its surroundings, it is important to consider the proportions that relate to the environment. These proportions can determine the minimum and maximum sizes of the grid used in the design.

The goal is to ensure that the new architecture communicates effectively through its presence. It should establish a strong connection with the surrounding space, forming a cohesive and integrated relationship.

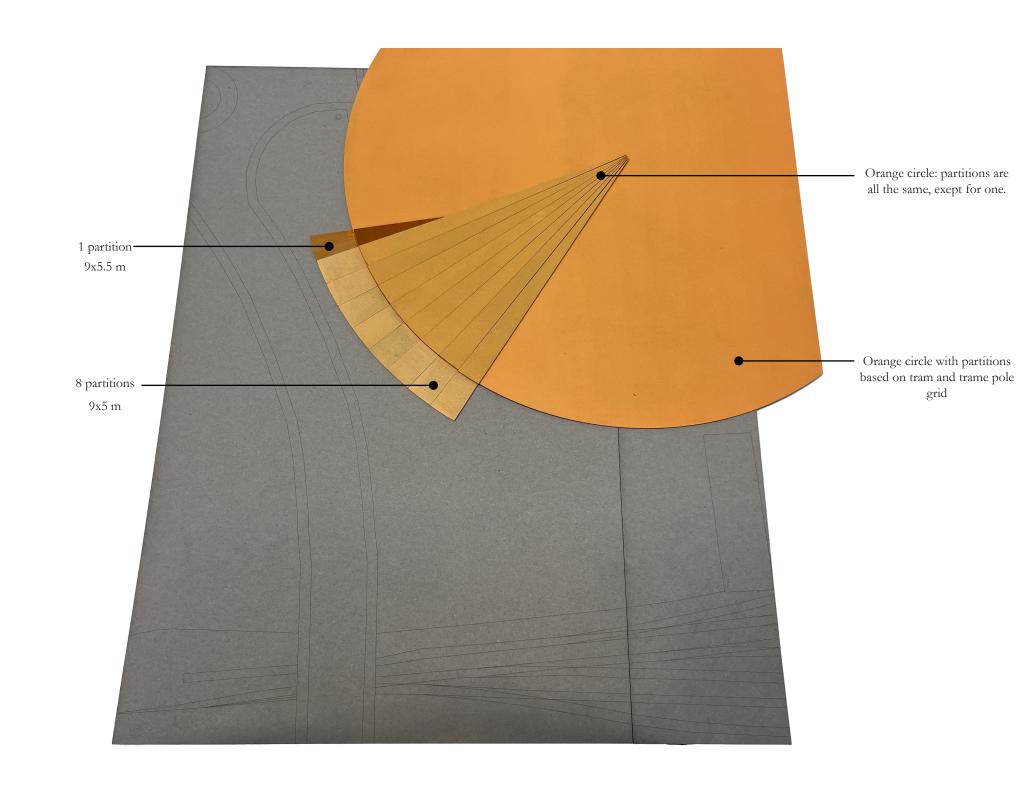
The next step is to incorporate the grid into a easier proportion system due to the fact that some proportions didn't match with the technical requirements. Think of too large spans or too many different sizes.

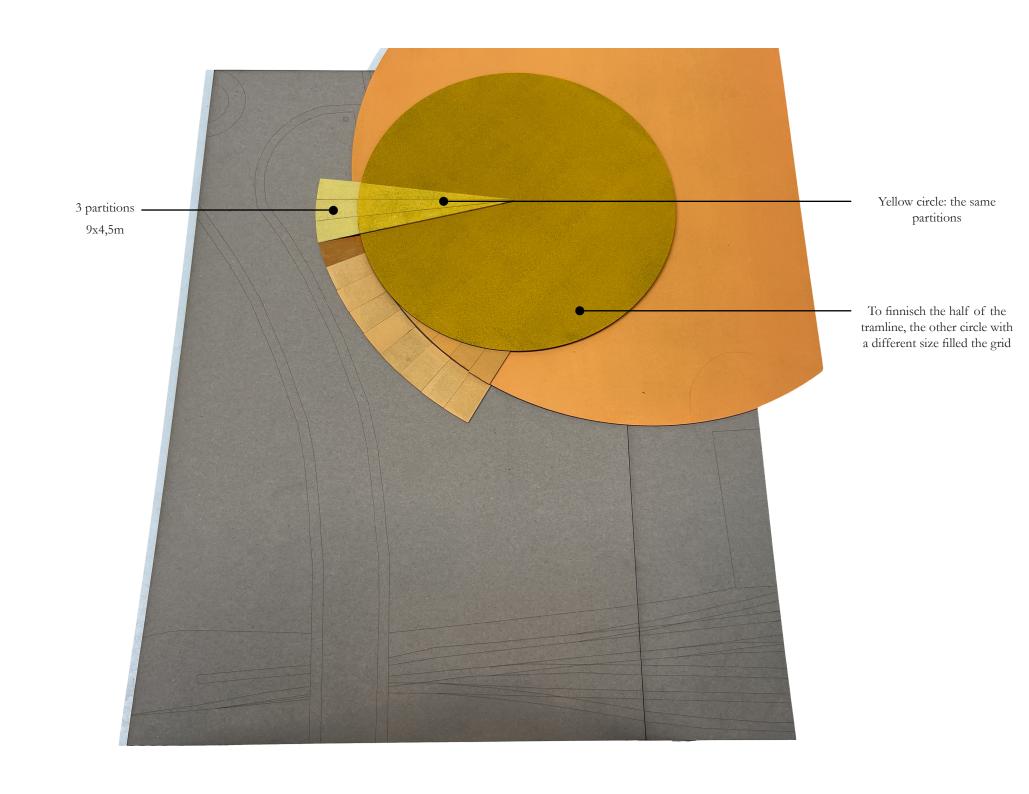
To look back on the insights learned from 'the elastic activator, intuitive grid exploration and finding forms', I can state that the interesting exploration lead to a grip on the proportions of the site and definitly formed a basis.

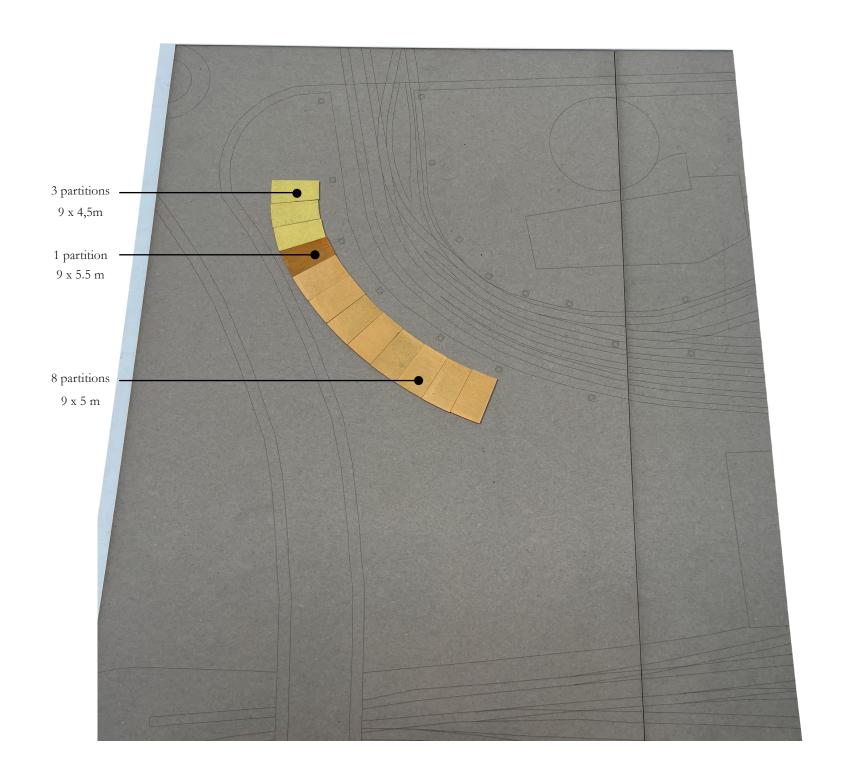
This posed the project's greatestchallenge: maintaining sight of the experiments despite the guidelines of material and technical requirements and keeping choices constantly reflecting with intuition.

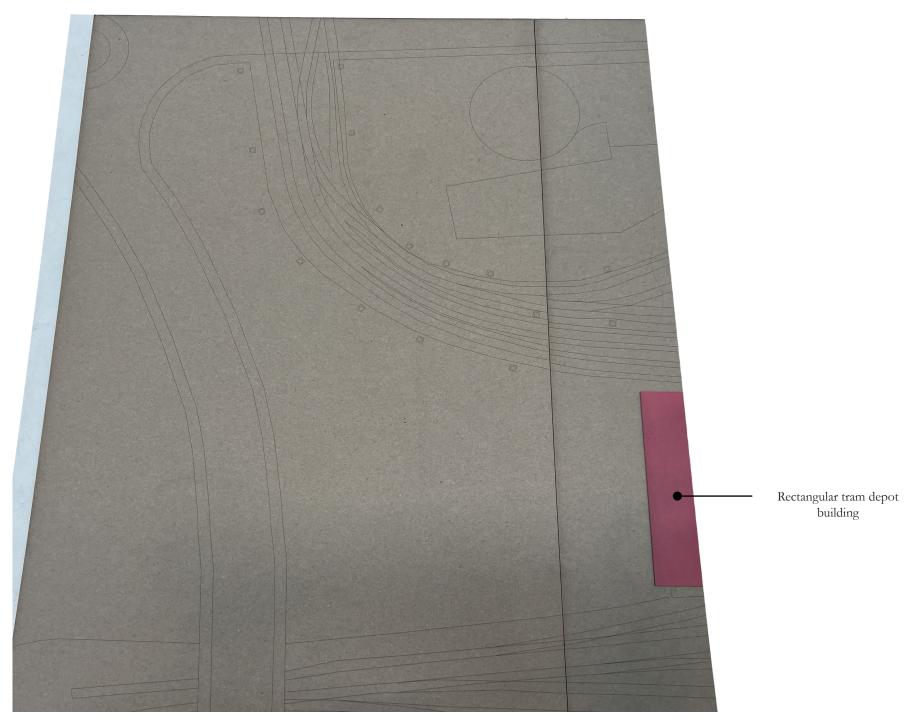
A new system combining the intuitive, with the techincal requirements of CLT spans and rooms that can function for different infills.

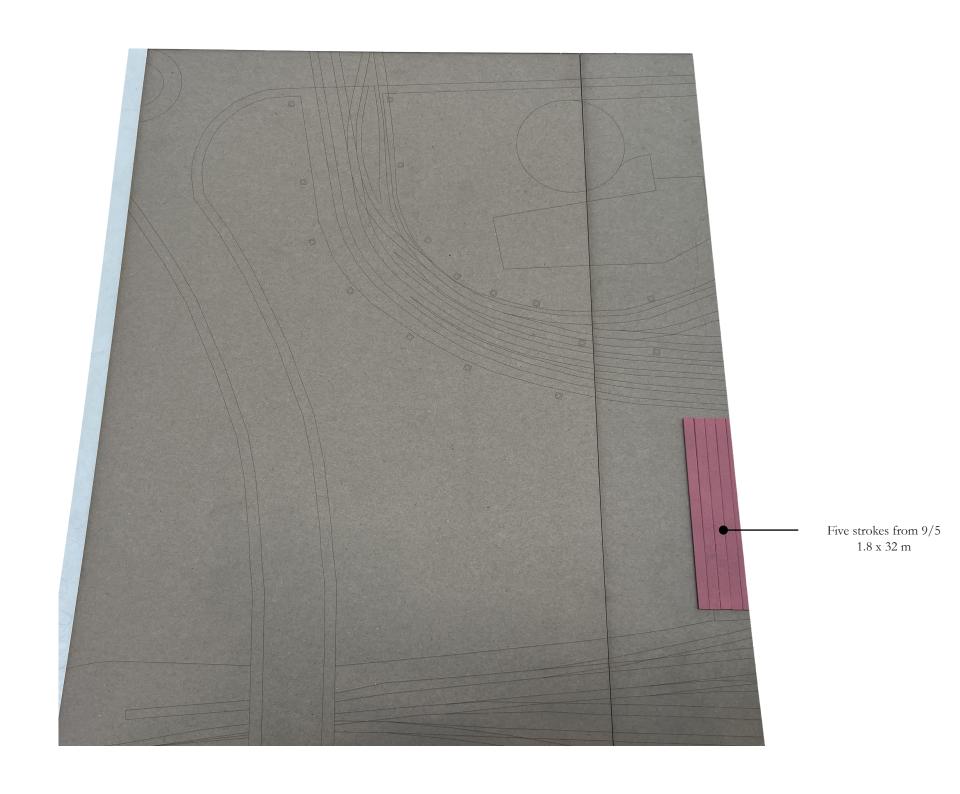
An other goal is to integrate the form of the building into the environment and let the form of the interior be shaped by the user, and to not define the function on forhand.

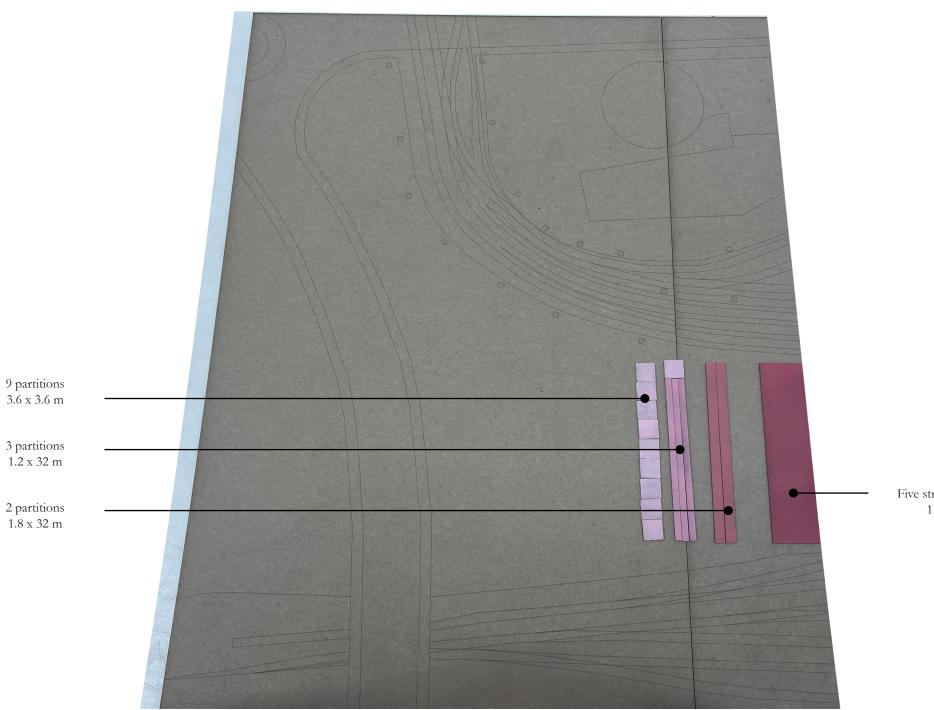




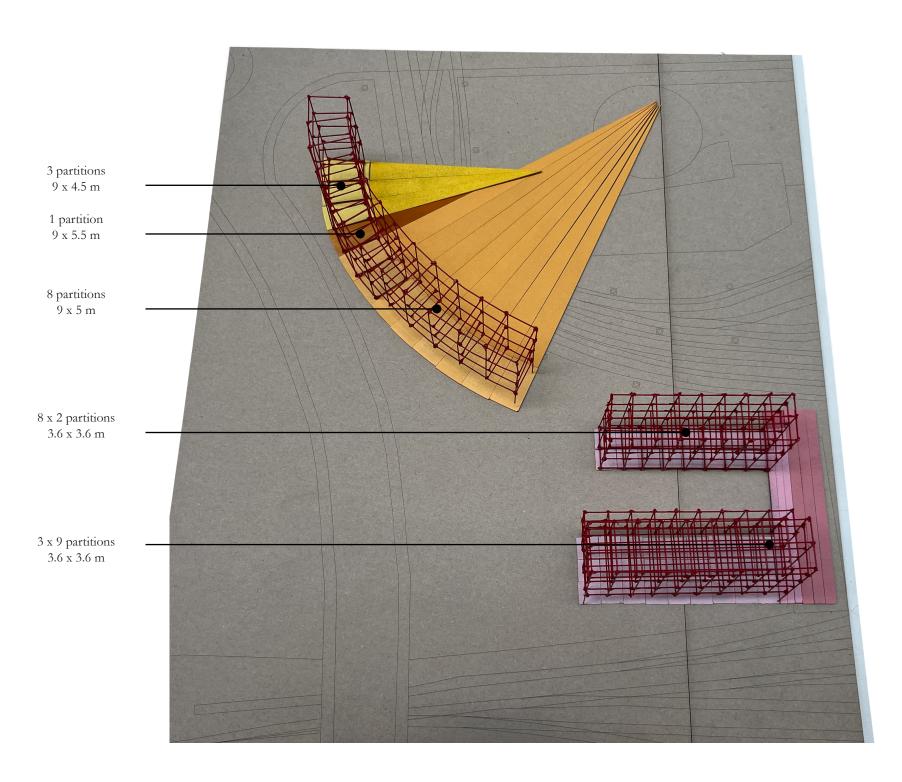


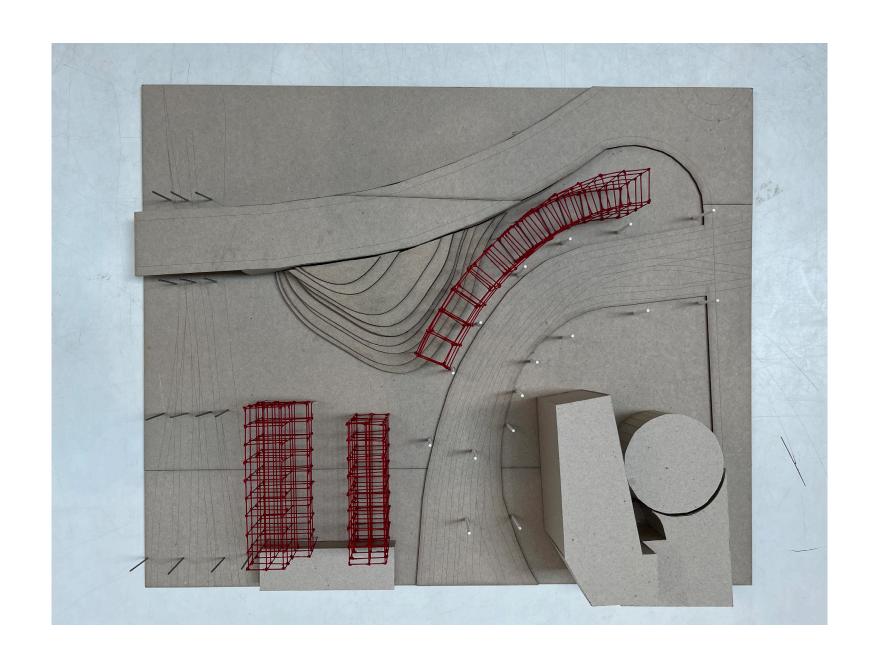


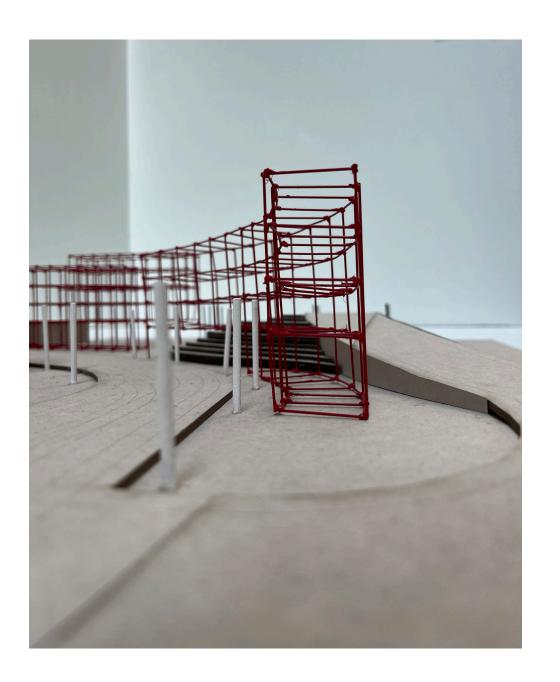




Five strokes from 9/5 1.8 x 32 m



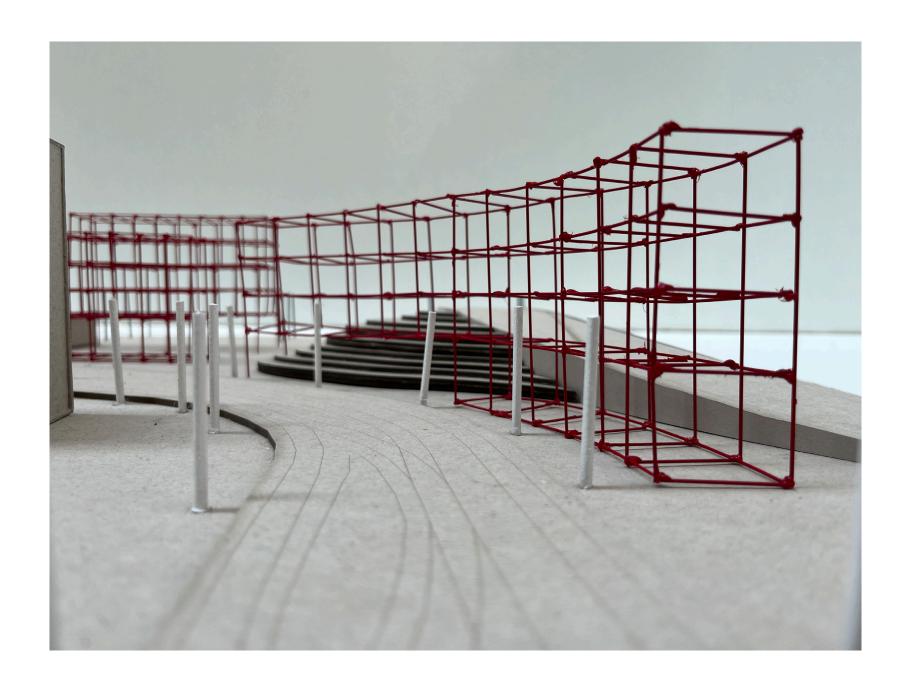




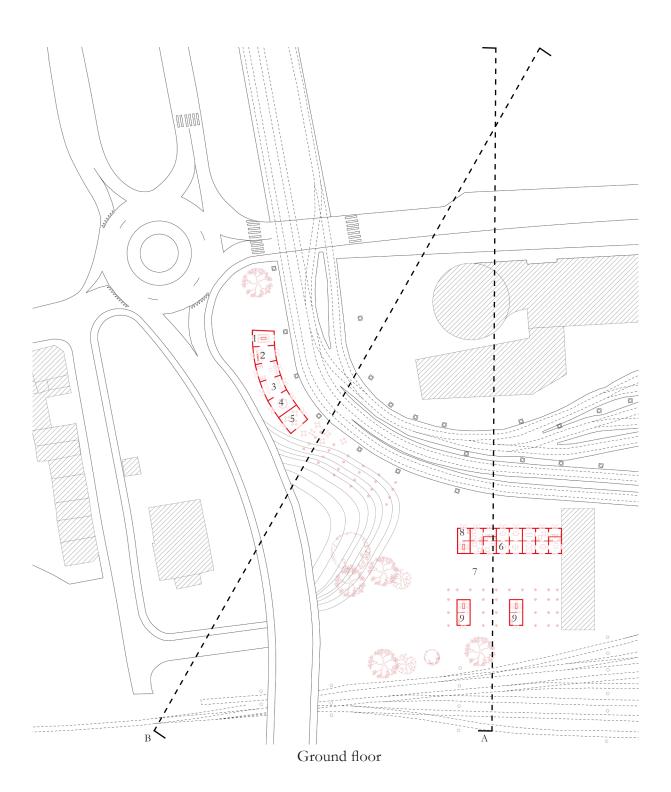








Visualisation of the details - construction, facade, interior

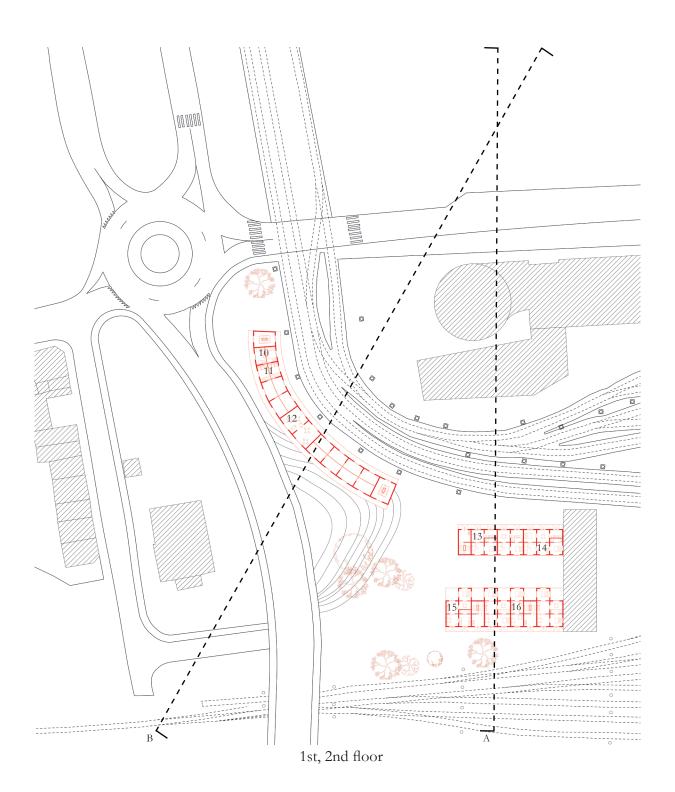


1 Entrance2 Service desk3 Lobby4 Bar/cafe5 Gathering space

restaurant, café etc.)
7 Extention public space
8 Entrance blok 2
9 Entrance blok 3

6 Open social plint / free infill (offices,



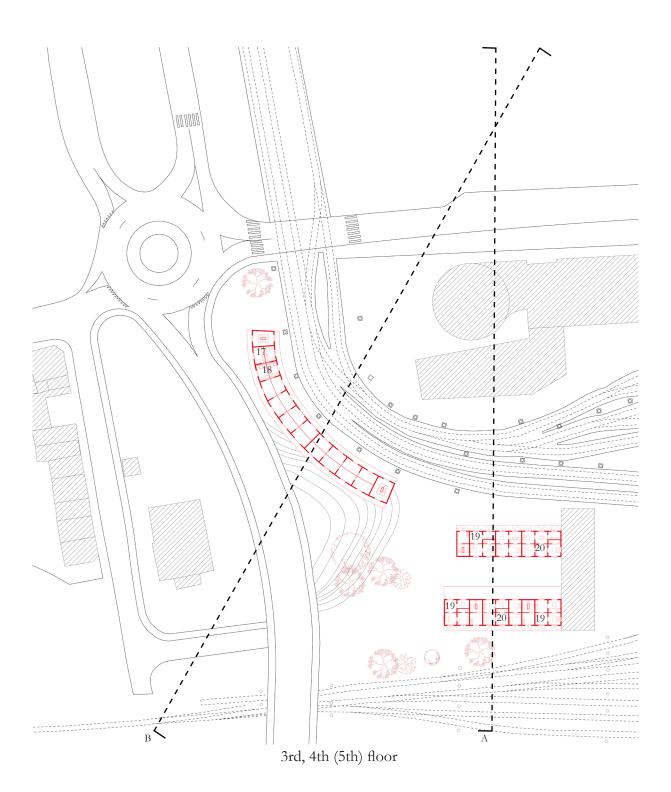




¹¹ Shared bathroom fill-in

¹² Public room - common

¹³ Apartment 52 m2 14 Apartment 78 m2 15 Apartment 65 m2 16 Apartment 39 m2



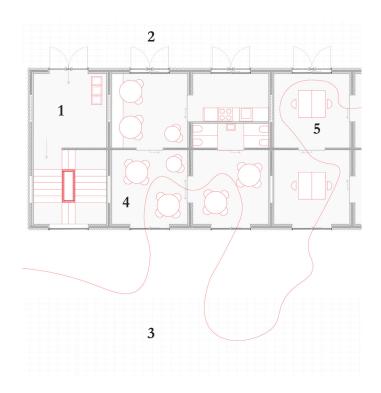
- 17 Hostel fill-in
- 18 Shared bathroom fill-in 19 Apartment 52 m2 20 Apartment 78 m2 21 Apartment 18 m2



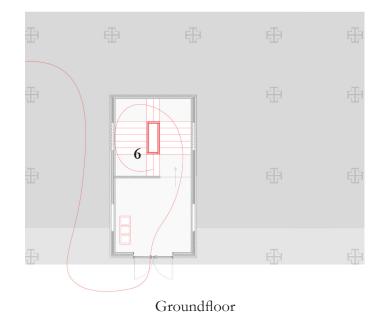
- 1 Entrance stairway 2 Service desk
- 3 Lobby
- 4 Bar



- 1 Entrance stairway
 2 Gallary entrances partitions
 3 Hotel/hostal room
- 4 Shared bathroom



- 1 Entrance stairway
- 2 Gallary entrances partitions3 Inner courtyard open plinth
- 4 Cafe/restaurant
- 5 Work hub
- 6 Entrance blok 3 stairway



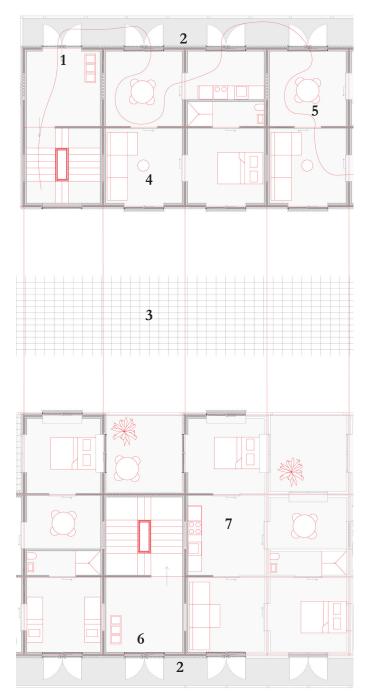
1 Entrance - stairway

2 Gallary - entrances partitions 3 Inner courtyard - open plinth 4 Appartment 52 m2

5 Student appartment 77m2

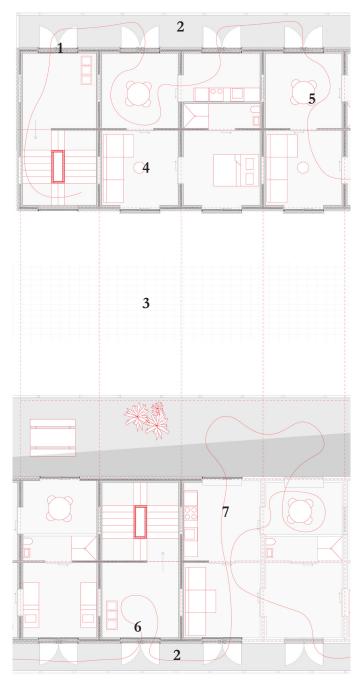
6 Entrance blok 3 - stairway

7 Appartment 65 m2 with inner balcony



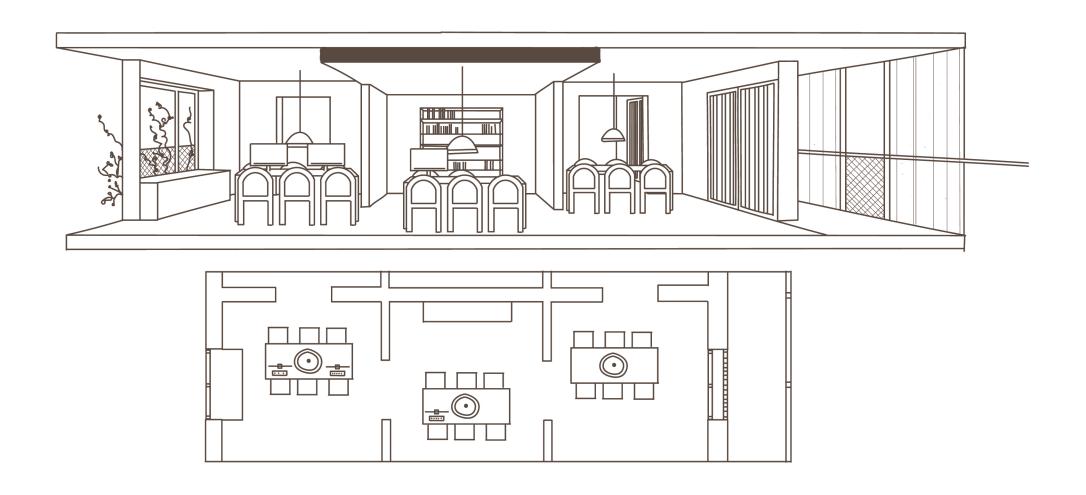
1st, 2nd floor



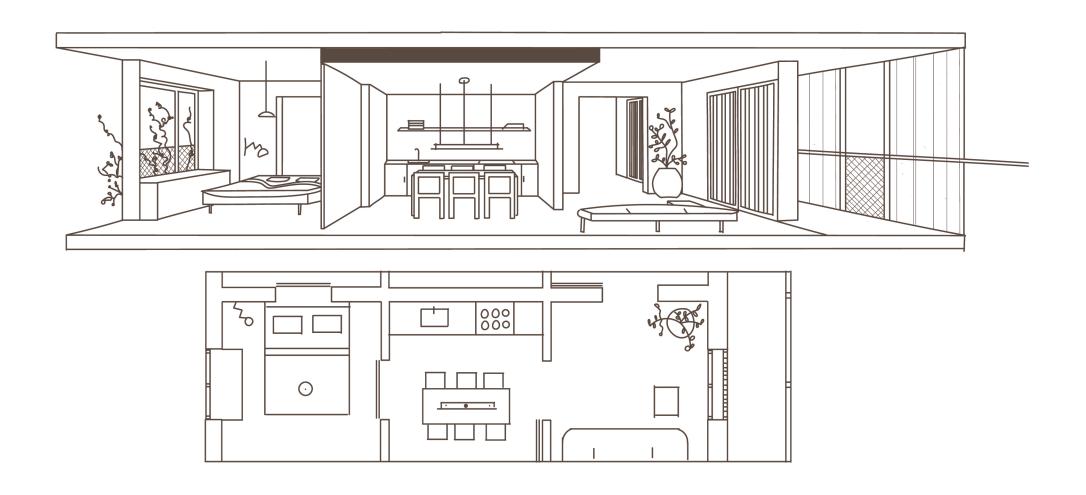


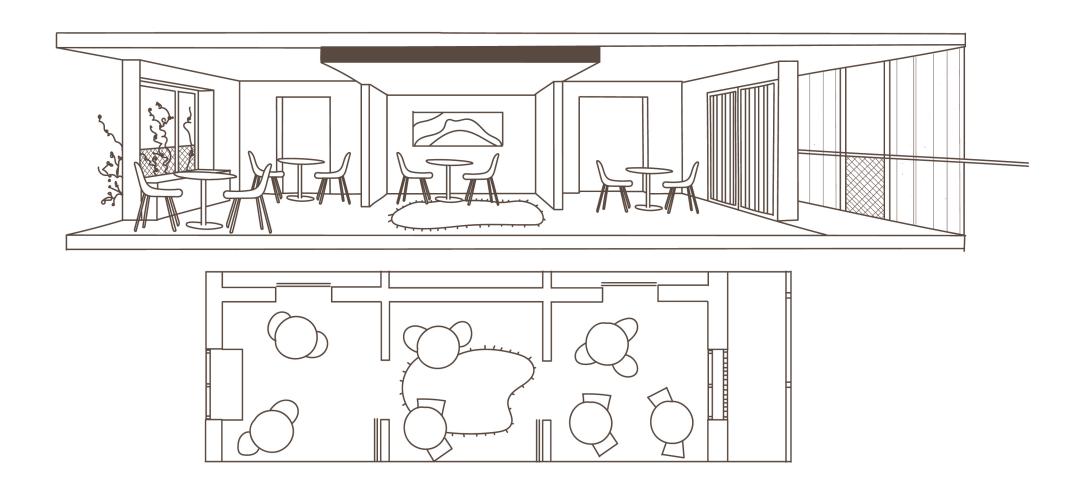
3rd and (4th) floor

² Gallary - entrances partitions
3 Inner courtyard - open plinth
4 Appartment 52 m2
5 Student appartment 77m2
6 Entrance blok 3 - stairway
7 Appartment 78 m2 with shared terras



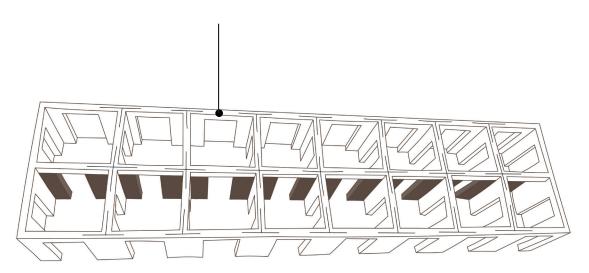


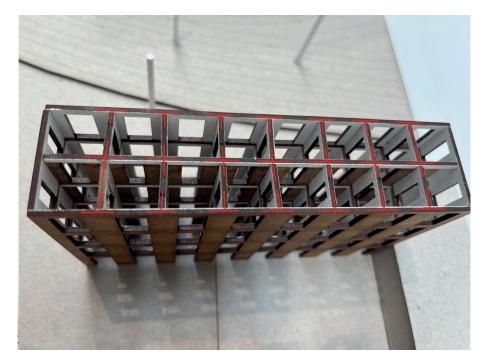




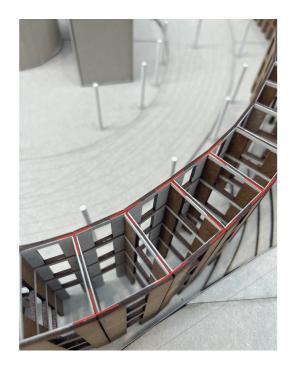
9 partitions 3.6 x 3.6 m

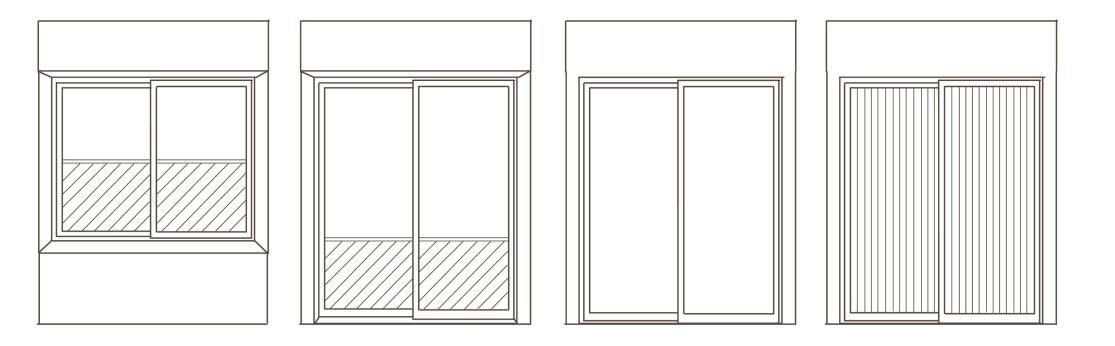
rooms divided with door 1.2m



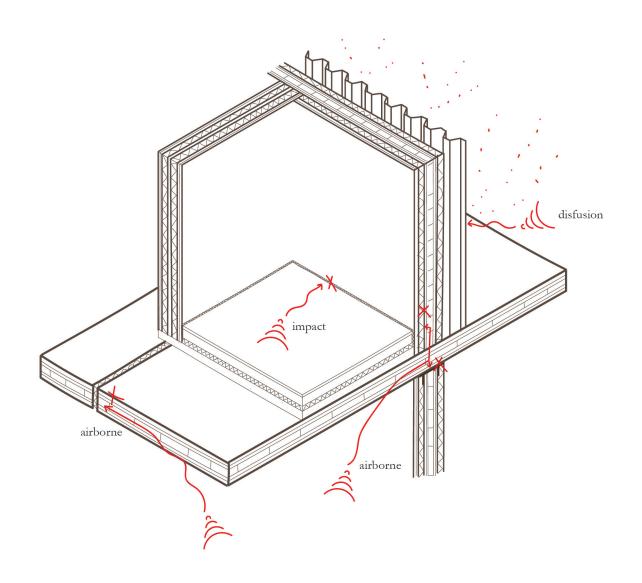




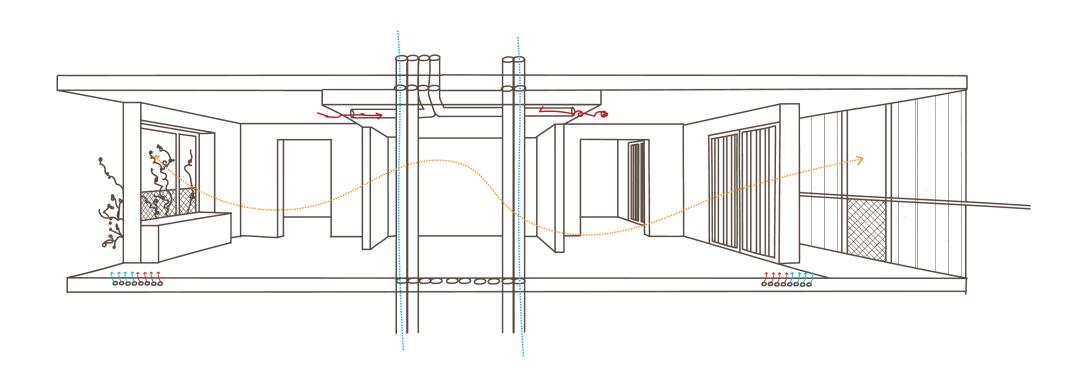


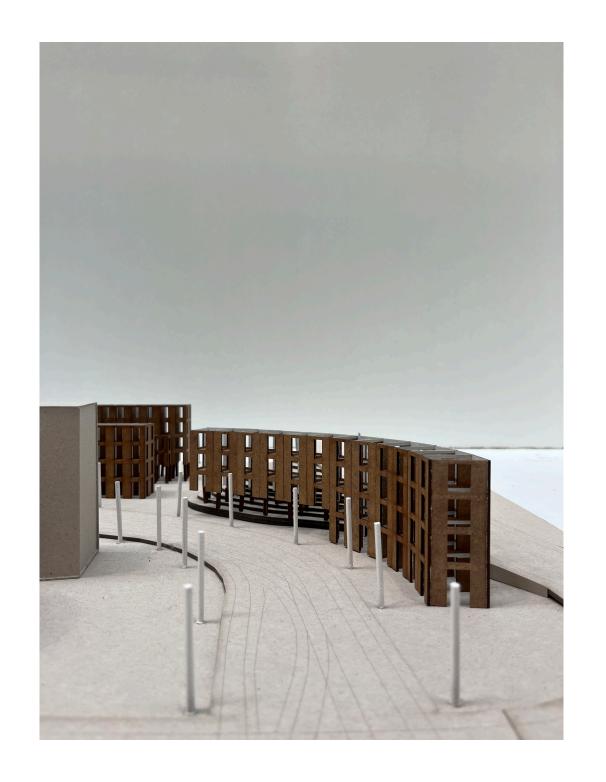




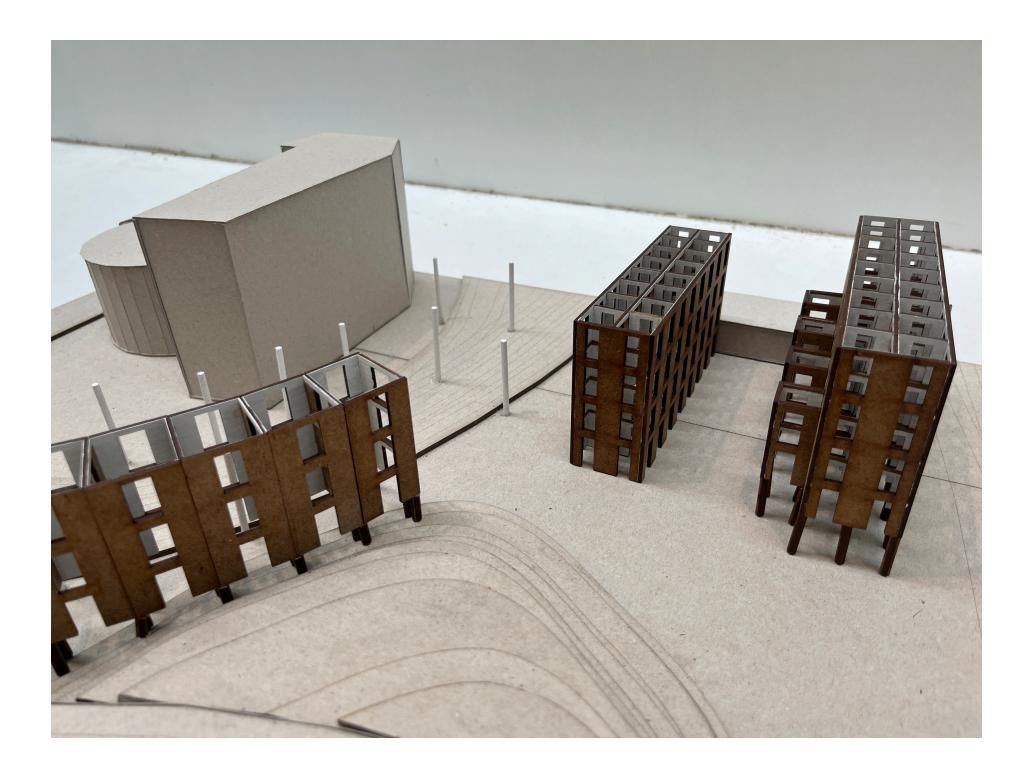




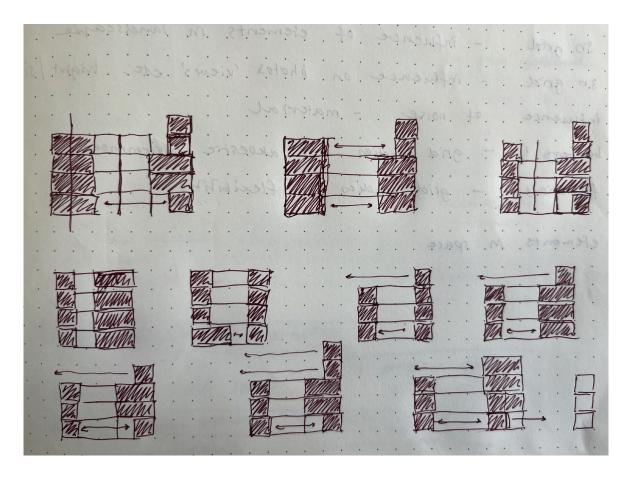




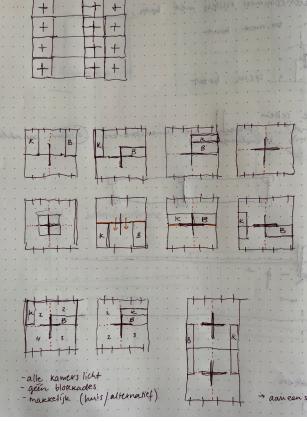


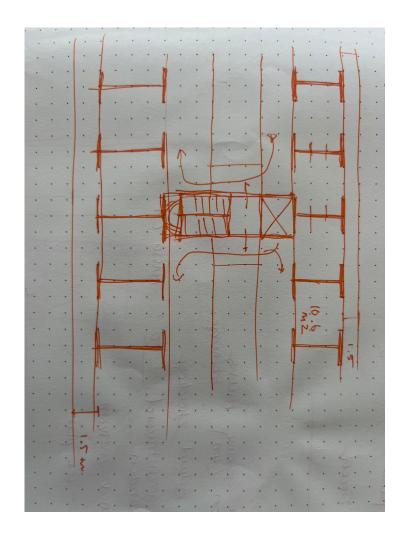


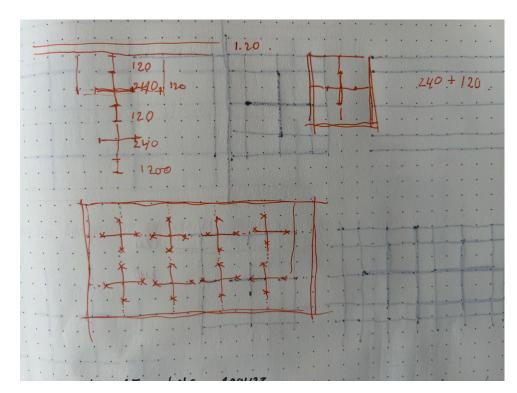
A sketch book of thoughts - details in the grid

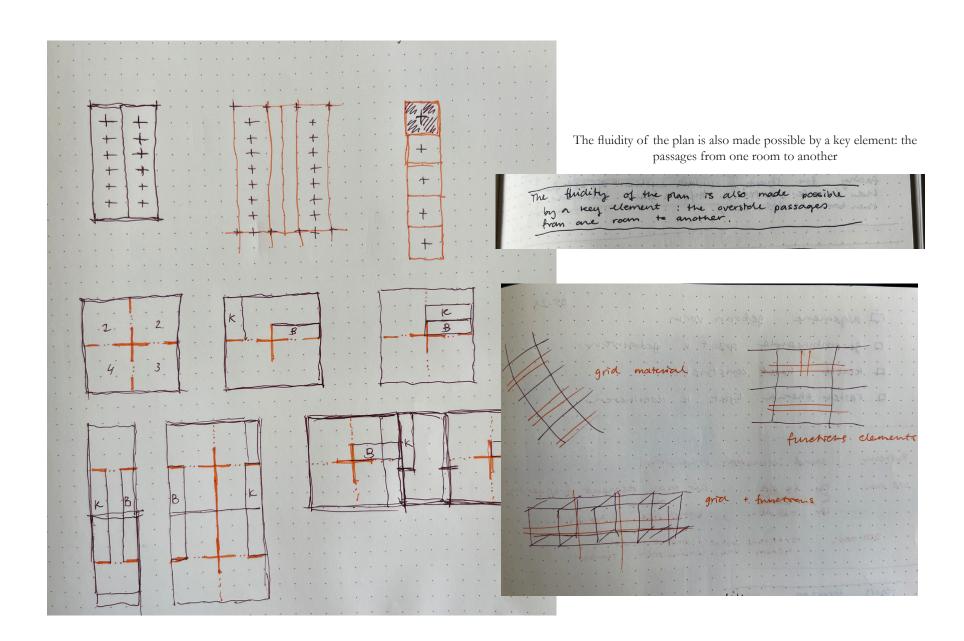


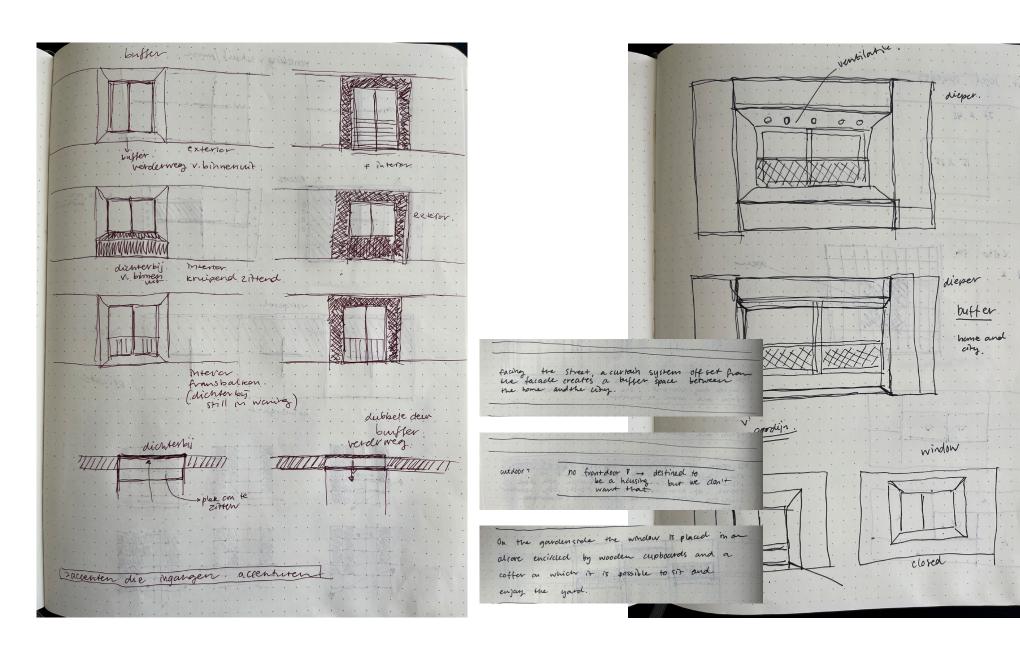
Originally, the goal was to visually represent the qualities of the interspaces through drawing, photography and modelling.



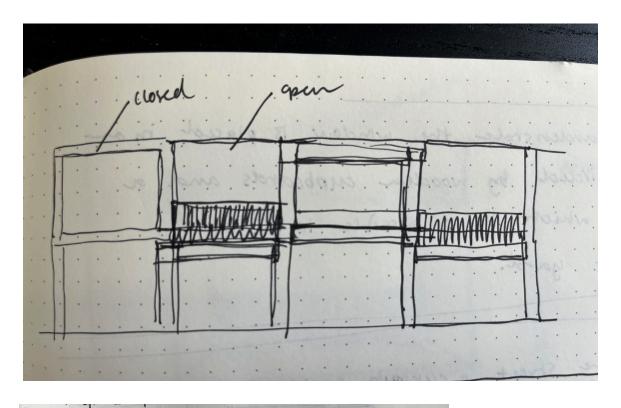








acoustic layers (windows)



The glared areas of windows is generous and similar in each room (no smaller seem windows in rooms)

Blinds and shutters have been assigned to 50 designed that total black can be obtained in all rooms.

(as required for bedrooms).

The form of the grid defines the building, and the function of the building is translated into a temporary interior - the starting point was to use the building for several functions without numerous modifications.

