

Manja Adriaens Student Master of Architecture and Urbanism Fontys Hogeschool van de Kunsten Tilburg Graduation project Augustus 2019

HIDF AWAY

COMMUNITY ROOM

Here you can drink, talk and read

Opening hours:

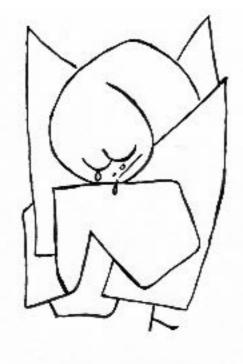
Monday to Friday: 12.30 pm to 9 pm Saturday and Sunday: 3 pm to 8 pm

You can sign in for:

- a reading
- a workshop: dancing, clays, mandala drawing, painting etc.
- yoga/meditation lessons

Without signing in you can:

- do yoga/meditation on your own
- follow yoga/meditation classes with the help of a screen
- boxing



es weint (Mach Paul Klee

TARGET GROUP

Young adults and adults with mental problems/mental disorders as:

* Burn out, divorce issues and other life crises

THESIS

Architecture can be supportive in the treatment of mental difficulties by evoking thoughts and emotions.

RESEARCH

Literature:

Emotions

Yoga

Meditation

Mindfulness

Architecture

Sensory architecture

Questionnaire:

Mental landscape

Design:

Scale models

- express emotions by spatial arrangement
- express feelings by ordening blocks

Interviews:

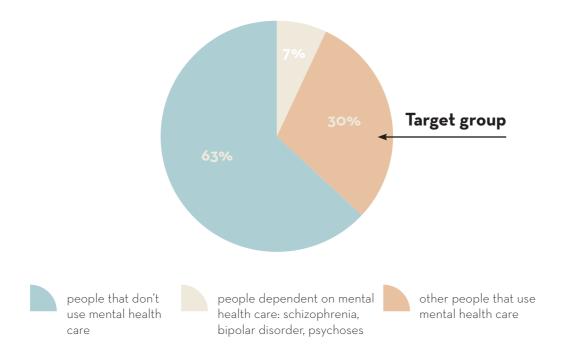
Client mental health care Psychologist; (Psychotherapist and mental health care manager)

Experts:

- water expert
- technical engineer
- plants expert

RESEARCH - LITERATURE

the number of Dutch people that use mental healthcare



10

CONCLUSIONS INTERVIEWS

 alarm button to ambulant sGGZ professional in sGGZ referral letter hostess 	need for mental health portal: to prevent: - problems get bigger - relapse - to cure - referral letter - helping activities
 overloaded by target group which isn't ill 7% of the people with psychiatric problems really need them WMO and health insurers are the designated financiers 	health insurers sGGZ is too expensive for target group; according to them the target group isn't ill

TARGET GROUP HAS AN OVERSTIMULATED NERVOUS SYSTEM

Helping activities:

Yoga* asanas (postures) and breathing

Meditation* visualizations, relaxation exercises and breathing; focus on body

Mindfulness* learn to keep more distance from feelings through self observations;

from thinking: 'I'm scared' to thinking: 'I have an anxious feeling'

Reading increases insight into one's own situation

Talking to recognise, connect and identify

Boxing to get rid of energy

Walking increases physical and mental well-being

Writing* has an enlightening effect

Drawing* express feelings by visualisation

Clay modeling* express feelings by visualisation

Music* express feelings by hearing

Dancing* express feelings by moving

^{*} optional as a workshop

HIDF AWAY

MENTAL HEALTH
PORTAL

READING TALKING WORKSHOPS REINFORCE CLIENT

PROFESSIONALS

YOGA MEDITATION MINDFULNESS REDUCE SOCIAL
MEDIA
BE PATIENT
HAVE TRUST

We know the target group

We know how to reinforce the target group

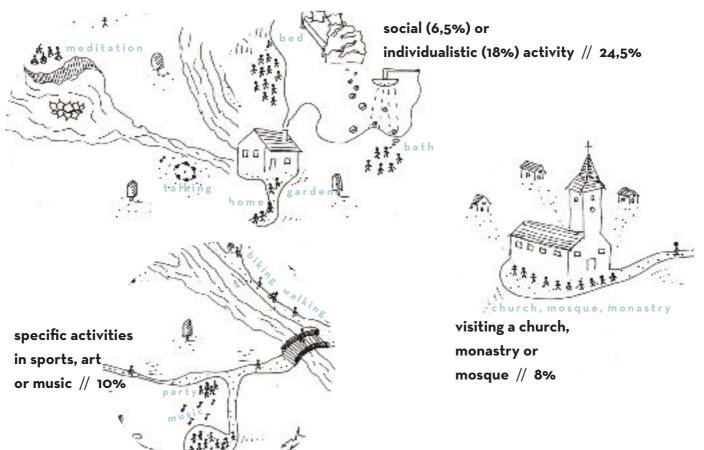
But what will be:

- the location?
- the architecture?

QUESTIONNAIRE > MENTAL LANDSCAPE

walking through the forest nature 57,5% silence & sounds of nature silence hills being in the mountains or hills sitting and watch the sea or lake

where do people go if they feel tense?

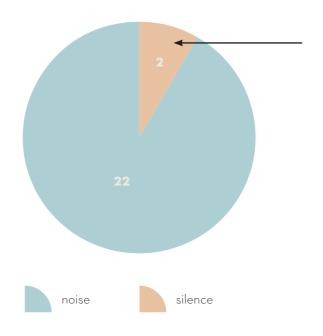


WHAT HAVE I LEARNED FROM THE MENTAL LANDSCAPE?

People are recovering from:

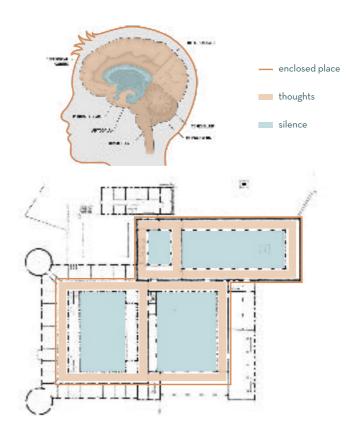
- visit to church / monastery or mosque
- alone at home / in bed / under shower
- 57,5% looks for nature! A walk in nature, natural sounds, mountains, sitting on the beach or other water, silence

the number of hours of silence we need in one day to develop new cells in the hippocampus (part of the brain associated with memory, emotion and learning)



Architecture analyse of a church and monastery:

- Introvert building
- High building; raises up to the sky (God)
- A little light comes from above (the dark symbolizes acknowledge/ and light the knowledge: God)
- Location: in the centre of the town/city district
- Corridors with arcades, walking space, water and open space
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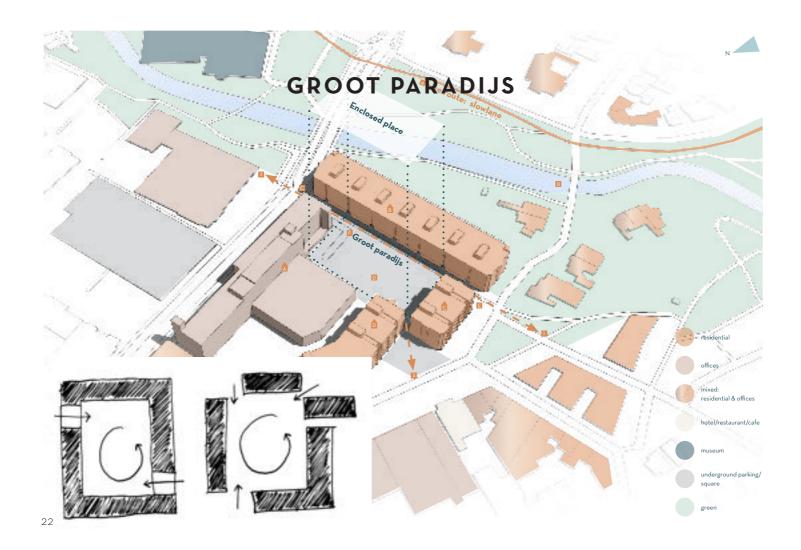
TRANSLATED TO MY PROJECT PEOPLE NEED:

People need:

- silence
- privacy (claustrum)
- walking space
- central location
- sensuality
- green
- water
- nature

My vision:

Eventually you must find peace within yourself, you must learn this, it's part of the healing process. This process starts in a densely built environment.



HISTORY, CULTURAL HISTORY AND ADDED VALUE

Groot paradijs was a rural area in the 16th century, from 1786 till 1965 an industrial area. Until 1990 it's wasteland, then it became part of the urban tissue with residential and office buildings

Hideaway would be an oasis (with a smile to the 16th century) in the busy center of Eindhoven

THE ADVANTAGES AND DISADVANTAGES OF GROOT PARADIJS



- In the center of Eindhoven.
- Close to a busy cycle route along the Dommel river, which flows through a natural environment.
- Quiet environment.
- · Surrounded by buildings.
- Claustrum.
- Hidden square.
- The construction site belongs to the municipality.

- Windows of the surrounding buildings face the square.
- The architectural quality of the surrounding buildings isn't attractive.
- The square is the roof of a parking garage. The technical engineer must approve it.

We know the target group

We know how to reinforce the target group

We know the location

But what will be:

- the architecture?

RESEARCH - LITERATURE - EMOTIONS

We can influence emotions.

The house for all senses gives a layout for the interior; by this <u>the architect influences</u> <u>emotions</u>. I've translated this to HideAway (p27).

The experts teach the client to consciously deal differently with emotions and feelings by the helping activities.

We have primary and secundary emotions:

Primary (automatic and unconsciously) - hypothalamus is involved

Secondary (influenced by environment and culture) - the orbitofrontal cortex is involved Secondary emotions can influence primary emotions and vice-versa.

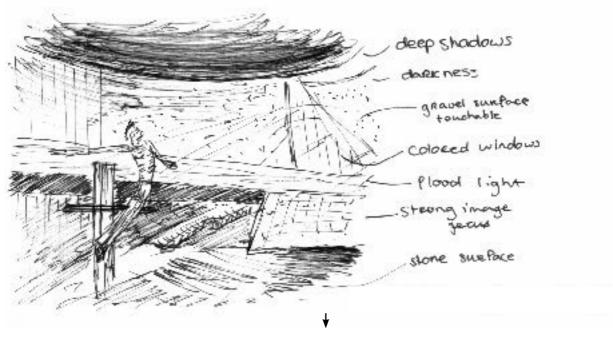
house for all senses		HIDF AWAY	
psychiatric environment trans		ated: mental health portal	
Emotions	Room	Emotions	Room
Hyper	Corridor	Overstimulated	Boxing/Shower/Yoga
Agressive	Soundchamber	Agressive	Boxing
Delusions	Bathhouse	Chaotic	Shower
Loneliness	Reading	Loneliness	Loge/Community
Depressed	Garden	Depressed	Corridor
Fear	Reflectionroom	Fear	Yoga/Loge/Meditation/
			Mindfulness

THE TOOLS OF AN ARCHITECT TO **EXPRESS HIS VISION ARE:** FORM ORDER MEASURE COLOUR INTENSITY MATERIAL SENSES EAR NOSE SKIN MUSCLE TONGUE SKELETON EYE **EMOTIONS** FΕΔR JOY SADNESS ANGER DISGUST SURPRISE PHYSICAL CHANGE THOUGHTS REACTION

Personal experience

Lord's Ark Church

Architect: Wojciech Pietrzyk



FROSE

POLYPHONY OF THE SENSES

SURPRISE

THE HEALING EFFECT OF ARCHITECTURE

The healing effect of HideAway can be provoked by creating an environment that A) feels natural B) responds to the needs C) touches the senses.

THE TOOLS

Material:

- brick as a recognisable material, painted with 'kalei', for a minimalistic and harmonius effect
- concrete for a trustful base
- wood for a warm feeling and tactility
- corten steel for strength
- water for a surprising and calming effect, touchable, to withdraw negative energy
- plants for connection
- artificial light for dramatising and influencing

Form:

- round shapes of the arches stands for safety and embrace
- the building is contrary; it's both open and closed; extravert (downstairs) is inviting and introvert (upstairs) gives privacy

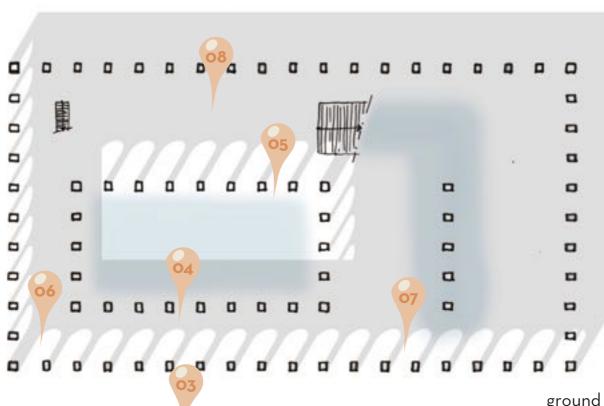
Colour: colors will be earthly

Order:

- arcades symbolises the forest and increases resilience
- the design focuses on 1) feelings 2) the functions of the different spaces

Measure:

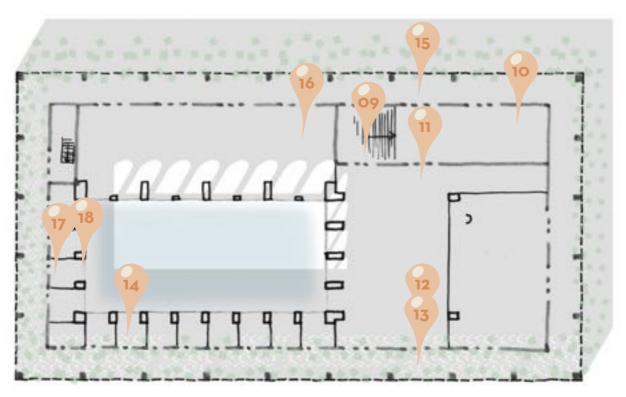
- arches are human sized; 1) to sit; 2) to walk through
- columns are human sized to hide behind; one or two shoulder widths
- scale of the building is spacious (ceilings and doors are higher then the norms) 'gives space to emotions and thoughts'
- the building is out of scale on the square; it's not a pavilion; it's present and confident **Intensity:**
- intensity of elements to provoke emotions like the water curtain
- monolithic because it isn't distracting but effective
- the sounds of water from a distance makes people curious











first floor

EPILOGUE

No, this building isn't energy efficient; sustainable, but responds well to the needs of people. I've consciously opted for all functionalities that can contribute to the well-being of people in our society. In the first instance it costs a lot of money but in the longer term it saves many costs in the mental health care. That's also a form of sustainability.

ACKNOWLEDGEMENTS

Hereby I want to thank Jan Willem van Kuilenburg, Pieter Feenstra and Teo Bähler a lot for their knowledge, patience and wisdom during the supervision of my project HideAway.

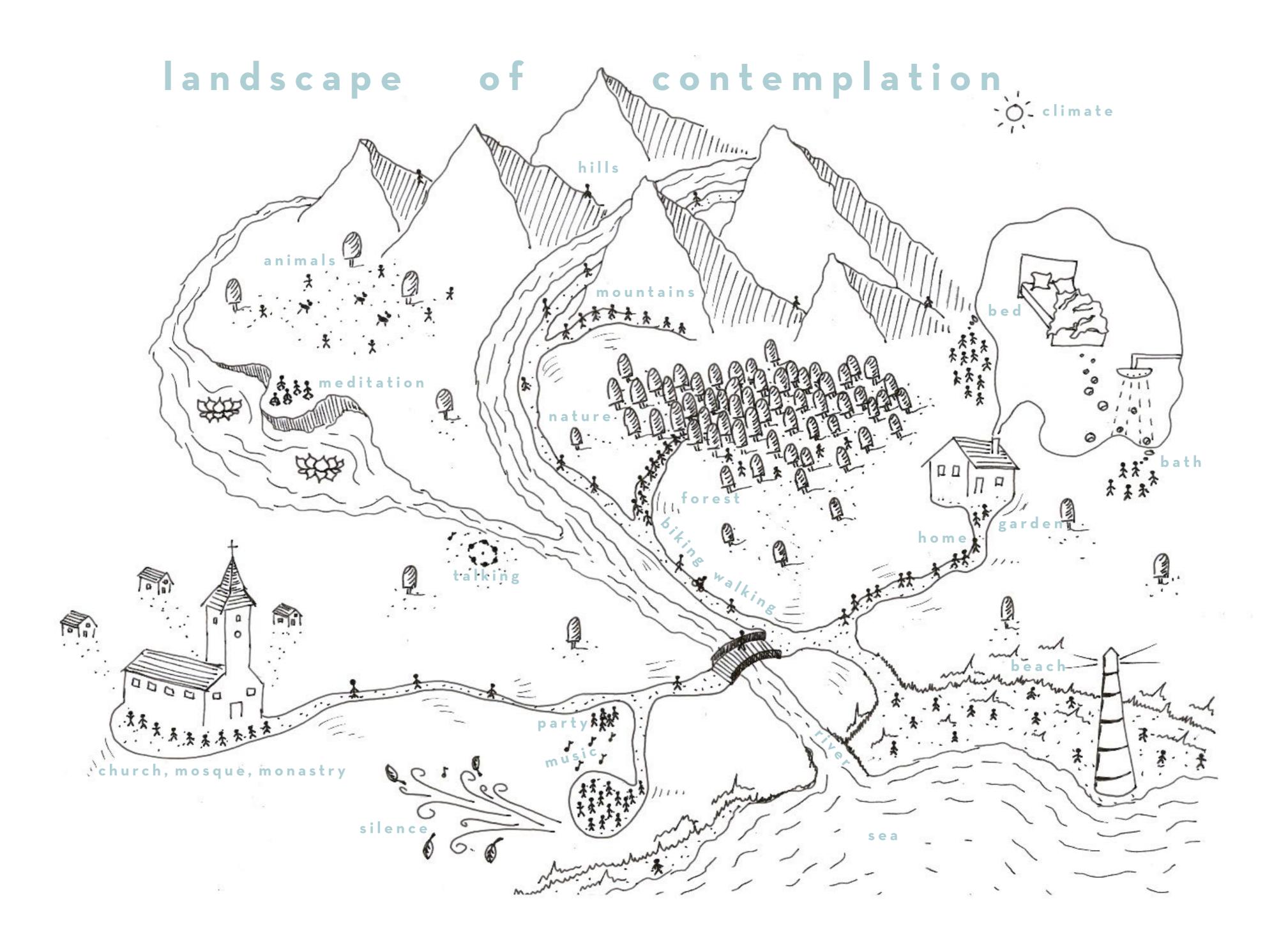


"a claustrum for the mind"

The pressure on mental healthcare is growing every day. Waiting in line doesn't help people, and continuing their journey keeps the flame alive. In the rush, where everyone runs from early in the morning until late in the evening, a place to dwell upon feelings is needed. A place to hideaway and to connect to the self and likeminded people. A place to find support, consolation or simply silence. Hideaway is a place for introspection in the middle of the dense city of Eindhoven. It is a journey that takes people to experience the self and the contemplative characters of nature. It is like a walk in the forest and a walk along the water. Hideaway is a proposal to bring people to their inner world by architecture. It is a claustrum, latin for an enclosed place, that embraces time for healing.

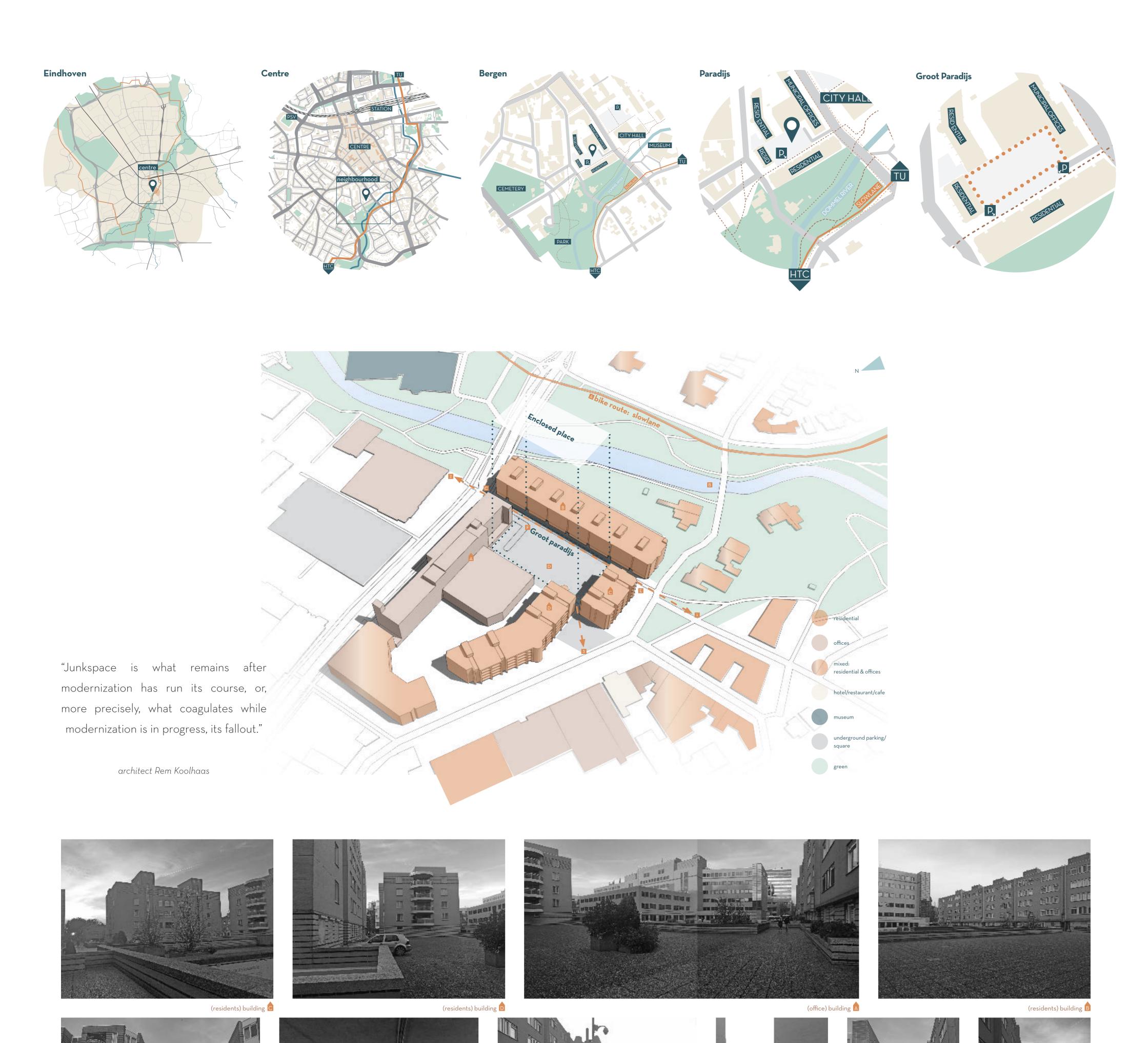
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Location Position

Groot Paradijs is a square on top of an underground parking in Eindhoven near to the slow lane, a bicycle path that moves along the Dommel river. It connects the Technical University with the High Tech Campus and the Brainport. A logical location to reach the large target group. At the same time, a central position in the city promotes intensive use, since it is next to the City hall in a mixed development.



parking 📕

only visibility from the

historical location from before the world war II view on city hall

parking entrance offices **F**

view on lane of trees

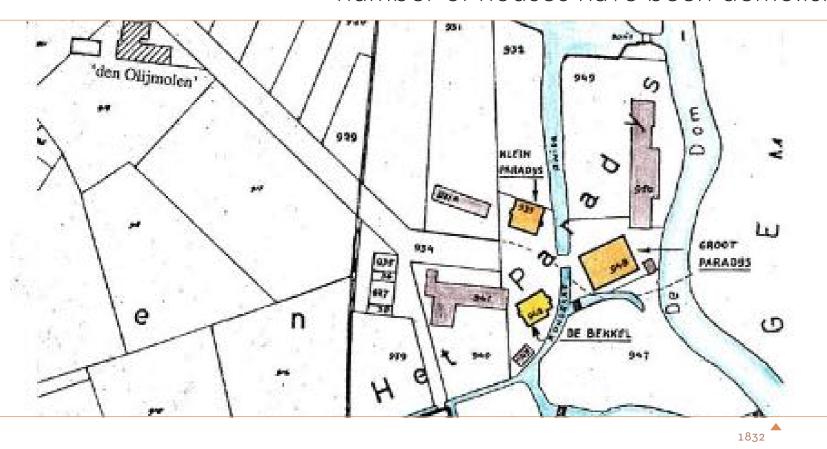
(Frederik van Eedenplein)

sight 1

parking entrance residents **E**

Location History and culture history

The estate Het Paradijs covered the area between the Dommel, the Paradijslaan and the Wal. On the estate, which probably dates from the 16th century, there was a country house, a coach house and stables, surrounded by gardens and grassland. The Run(d)(t)graaf river that nowadays ends in Veldhoven, coming from Eersel and Bergeijk is a fishing stream that was part of the Paradijs landscape, next to the dommel river. From 1786 till 1965 a textile factory stood here and from 1928 till 1961 a milking factory. Both buildings have been demolished. The area remains undeveloped for a long time and is used as an event site until the apartment complex 'Groot Paradijs' on the Paradijslaan rises in the 1990s on this spot. Now the street is called Groot Paradijs. Also a number of houses have been demolished for the apartment complex.



Het wordt gevormd door:

Paradys'

Huis 'het GROOT PARADIJS' eene modern en welgetimmerde Heere Huysinge en erve binnen de prochyen van Eyndhoven, staende en gelegen van voren aen den stroom de Rundtgraeff en van agteren aen de rivier de Dommel. gesloopt in 1930

1546 Een schepenregister uit 1546 vermeld toen reeds de verkoop

van 'een erffpant binnen der parochien van Eyndhoven gheheyten dat

eene Huysinge naest het Groot Huis 'het KLEIN PARADIJS' Paradijs, aen de westzijde van het Groot Paradijs en aen de overkant van de gracht onder Gestel tussen de Dommel en de Rundtgraeff. gesloopt in

en 'de BEKKEL' eene ruym koetshuys. gesloopt in 1967

ESTATE 'THE PARADISE' EINDHOVEN

LANDGOED 'HET PARADIJS' EINDHOVEN

Een van de oude panden, die Eindhoven ooit hebben gesierd, is Het Paradijs. De eerste vermelding stamt uit 1546 "een erffpant binnen der parochien van Eyndhoven gheheyten dat Paradys".

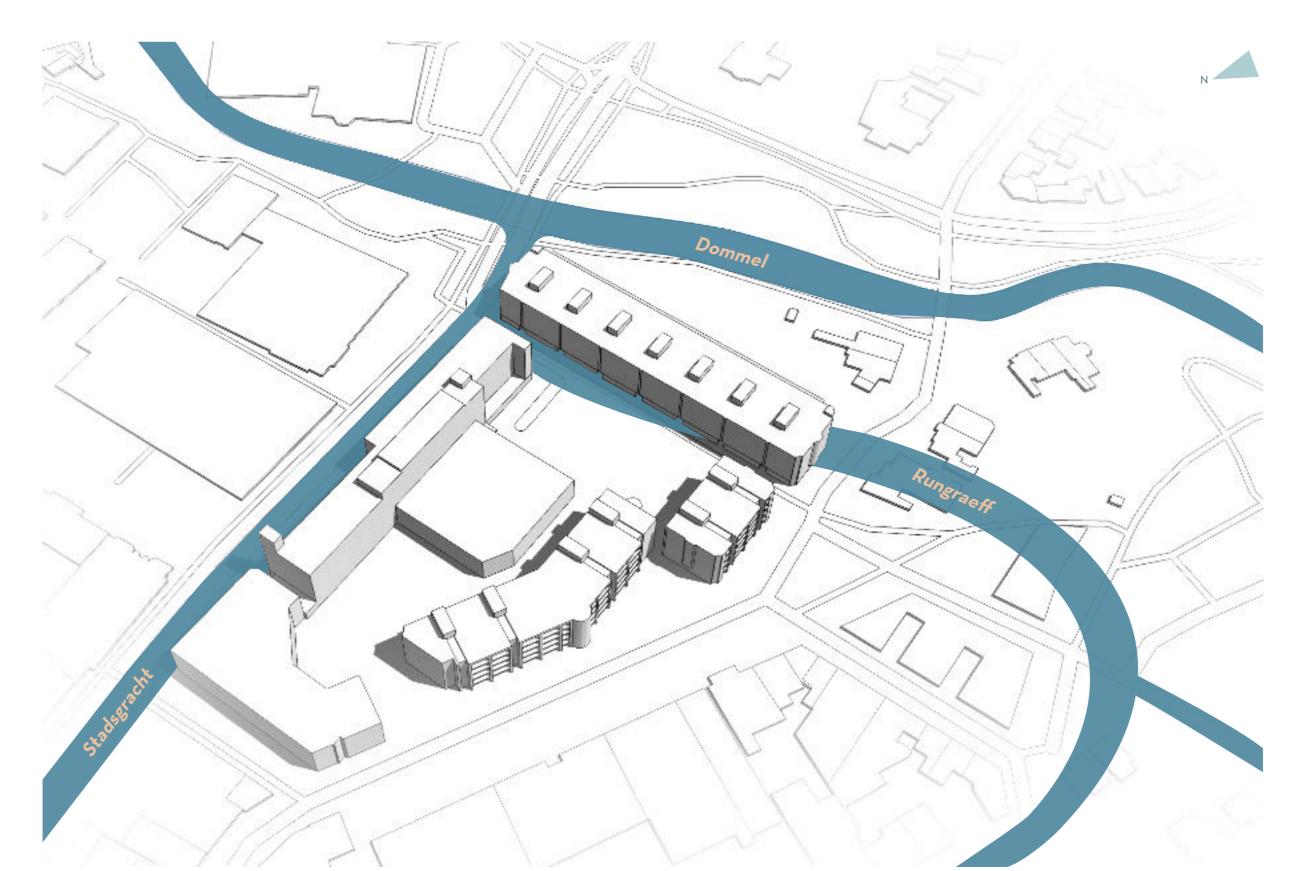
Omgeven door de Rundgraaf en de Dommel, lag deze lusthof in het gebied dat nu wordt omgrensd door Dommel, Wal, Waagstraat, Don Boscostraat en de oostzijde van het Frederik van Eedenplein.

Volgens beschrijvingen uit de 17e en 18e eeuw bestond het hele complex uit het hoofdgebouw met daar omheen een aantal bijgebouwen, als koetshuis, stallen, huize "Cleijn Paradijs" en de "Olijmolen". Het hoofdgebouw bevatte rijk geornamenteerde vertrekken, die naar de kleuren van hun stoffering, de "Rode" en de "Groene" kamer genoemd werden. Aan dit pand was ook vanouds het visrecht op Dommel tussen de Genneper en Stratumse watermolen (aan het Molenwater) verbonden. Heel wat adellijke families en hooggeplaatste militairen hebben er

gewoond. Rond 1800 werd het eigendom van J.T. Smits, eigenaar van textielfabriek "De Bouw". Na zijn dood ging het over naar Jozef Smits, die later heer van Oyen werd. Jac. Marto, de textielfabrikant, was de laatste eigenlijke bewoner.

Na de eerste wereldoorlog kwam het pand echter in gebruik als een soort huurkazerne, waarna het door nalatig onderhoud steeds meer in verval

Rond 1930 is het hoofdgebouw, het Groot Paradijs, gesloopt en werd er de huizen neergezet. Ook werd hier toen de Coöperatieve Melkinrichting en Zuivelfabriek St. Joseph geopend, die daar tot 1961 in gebruik bleef. Het laatste gebouw, het Koetshuis genaamd "de Bekkel" werd in 1967 gesloopt.

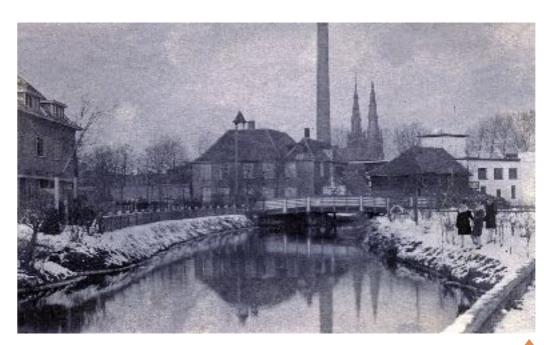


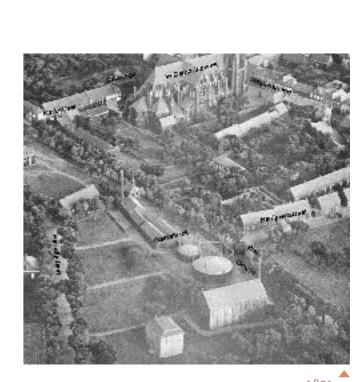
"Someday and probably soon, there will be a need for what is missing in our big cities: silent and spacious outstretched places to think, places with tall, long colonnades for bad weather or sunny weather, where no noise penetrates [...]; new buildings and public gardens, which as a whole express the eminence of contemplation and embody [being aside]. [...] We want to see ourselves in stone and plant, we want to walk in ourselves, when we walk

in these gardens and halls."

philosopher Friedrich Nietzsche 1882





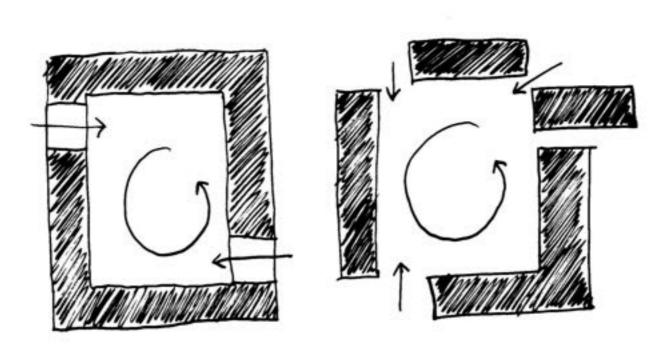


fishing in the dommel river



Location Analyse

Groot Paradijs is a square in the centre of Eindhoven, this is very positive to reach a lot of people. The beautiful Dommel river, park and slow lane are an attractive surrounding for the target group. The square is only reachable by foot, and therefore leaves a lot of noises outside. It is between buildings which makes it a silent place in the busy city. Being hidden from the busy city is an attractive state, it helps people to turn into their inner worlds. Walking around the place can be meditative. The square is surrounded by apartments and offices, which look down onto the square. This is the biggest issue to tackle, to create privacy for visitors of Groot Paradijs.



claustrum

left: cloister; right: groot paradijs



Motivation Personal

During a burn out I visited a Nurse Practitioner Mental Healthcare (POH GGZ in Dutch) for therapy and I took yoga- and meditation lessons. But when I visited a church in Polen, during my study architecture, I had an overwhelmed feeling (light and dark on the stone surfaces), that calmed me and strengthened me during my study architecture. Now, I visit more often a Church (without believing in God) and I know that architecture has the ability to heal.



Wojciech Pietrzyk Lord's Ark Church

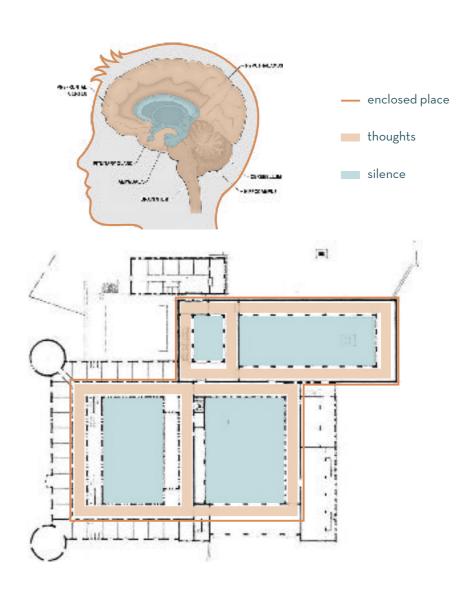
Architecture Analyse

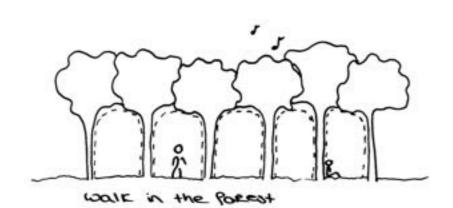
"You enter: the architectural spectacle at once offers itself to the eye. You follow an itinerary and the perspectives develop with great variety, developing a play of light on the walls or making pools of shadow," the purpose of all this being to help us "learn at the end of the day to appreciate what is available."

architect Le Corbusier

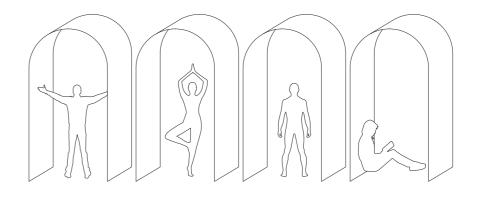
Architecture analyse of a church and monastery:

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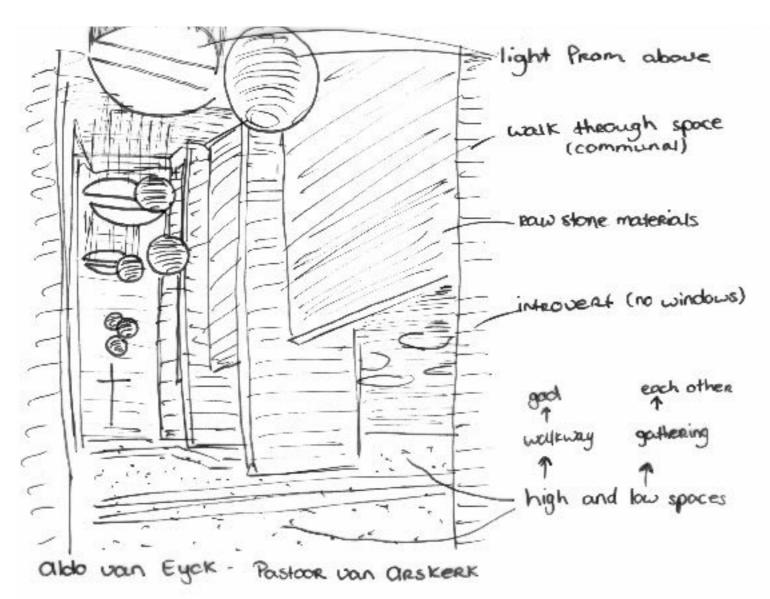




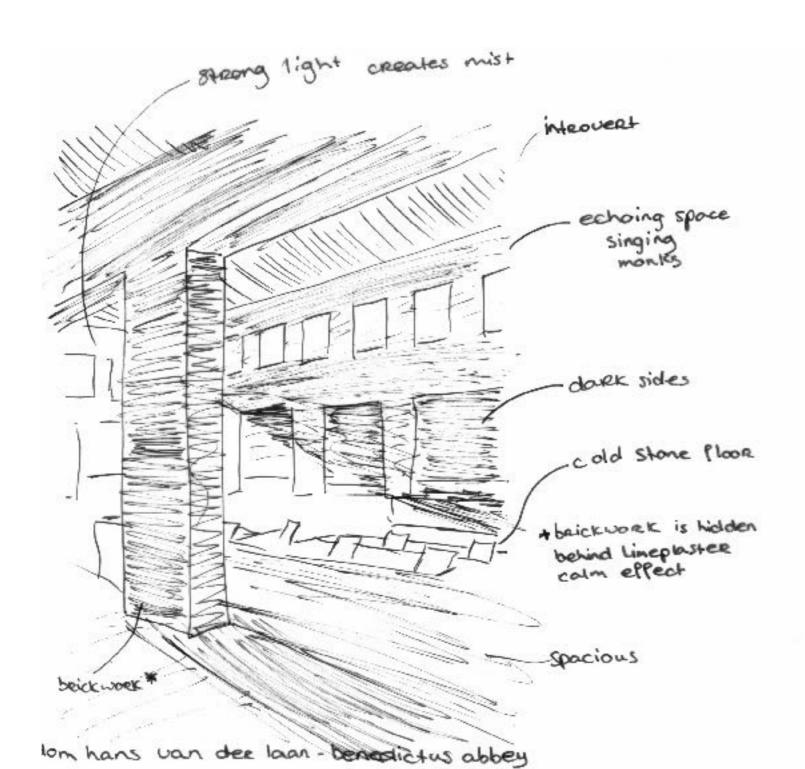
"A walk through a forest is invigorating and healing due to the constant interaction of all sense modalities; Bachelard speaks of 'the polyphony of the senses'."



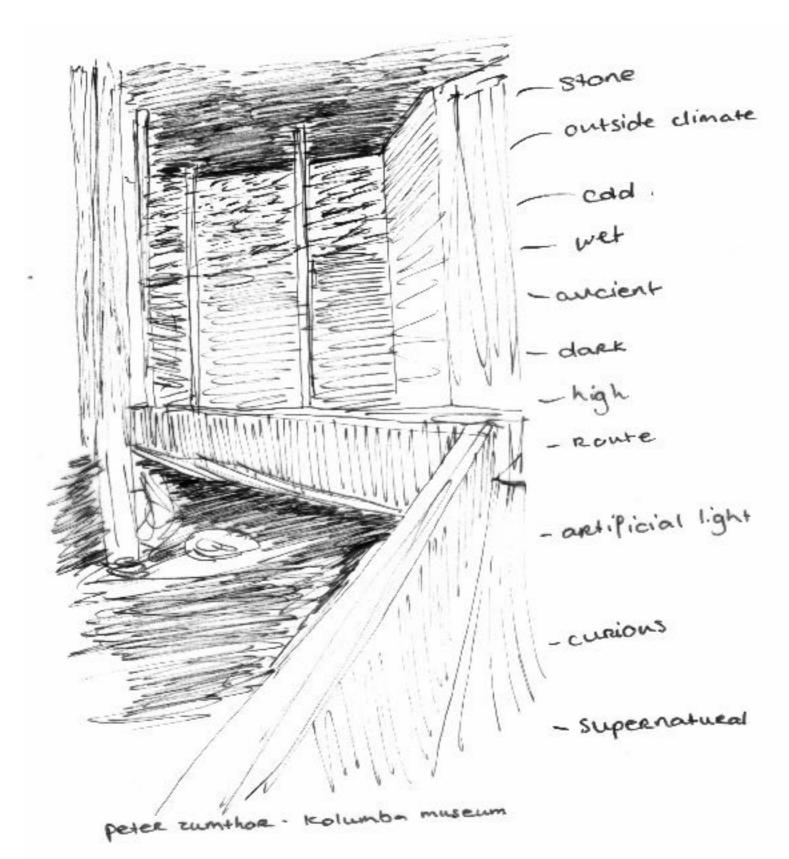
architect Juhani Pallasmaa in The eyes of the skin



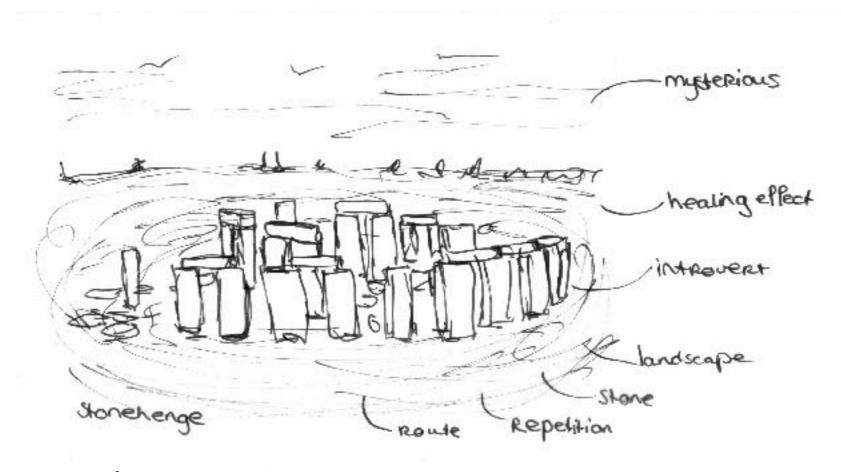
Aldo van Eyck Pastoor van Arskerk



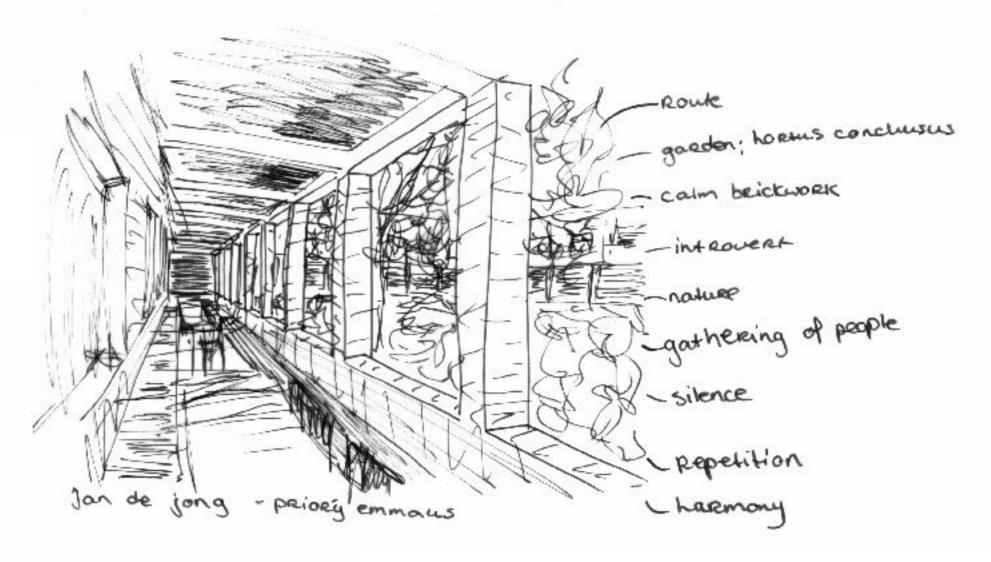
Dom Hans van der Laan Benedictus Abbey



Peter Zumthor Kolumba Museum



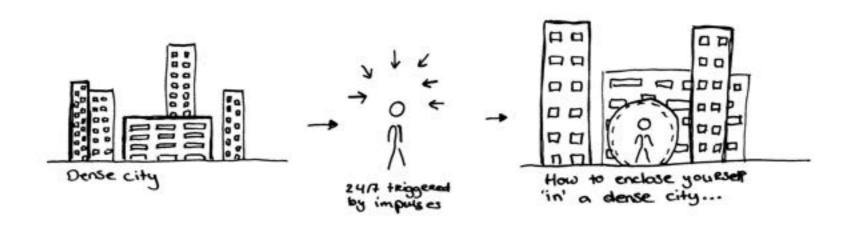
Stonehenge

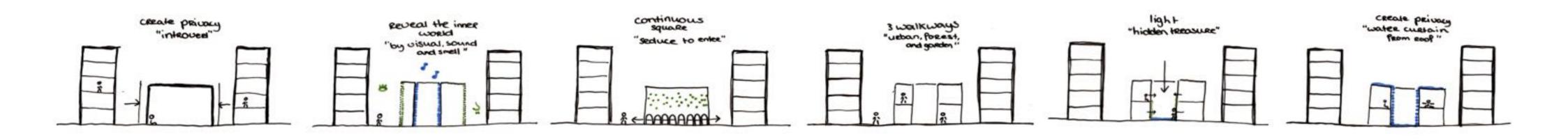


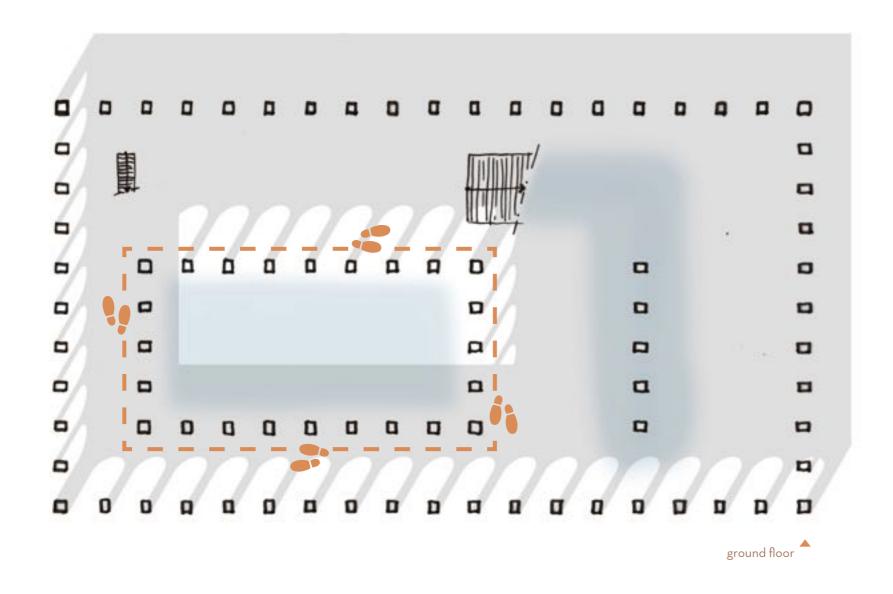
Jan de Jong Priorij Emmaus

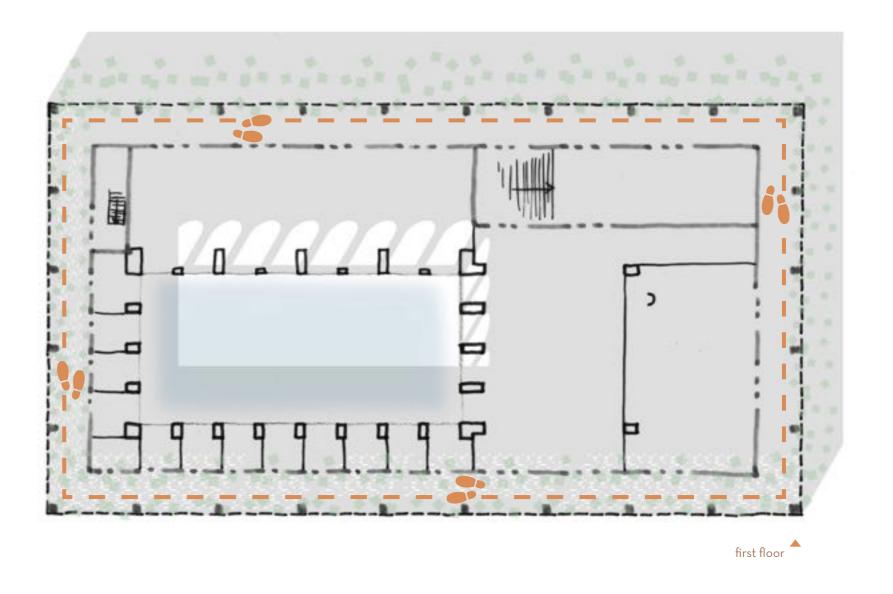
Concept

Hideaway is situated on an enclosed square called Groot Paradijs. The program is lifted so the square continues under the building. The architecture is introvert. The perforated brick facade, the patio and the arches reveal the inner world by visual, sound and smell of water and plants. The arches on ground floor invite people for a meditative walk in the shade along the water garden. The route continues upstairs in the raw concrete construction and along the perforated brick facade that allows light to enter for the plants to grow and to satisfy peoples curiosity. The garden walkway gives acces to the inside of the building. The wooden interiors embrace a patio of light with arch shaped windows to sit in. The water garden on the square is experienced on the first floor as well because of a water curtain coming from the roof. The water creates privacy inside, gives a touch of nature outside and makes the building disappear when looking on top of it because of the sky's reflection.









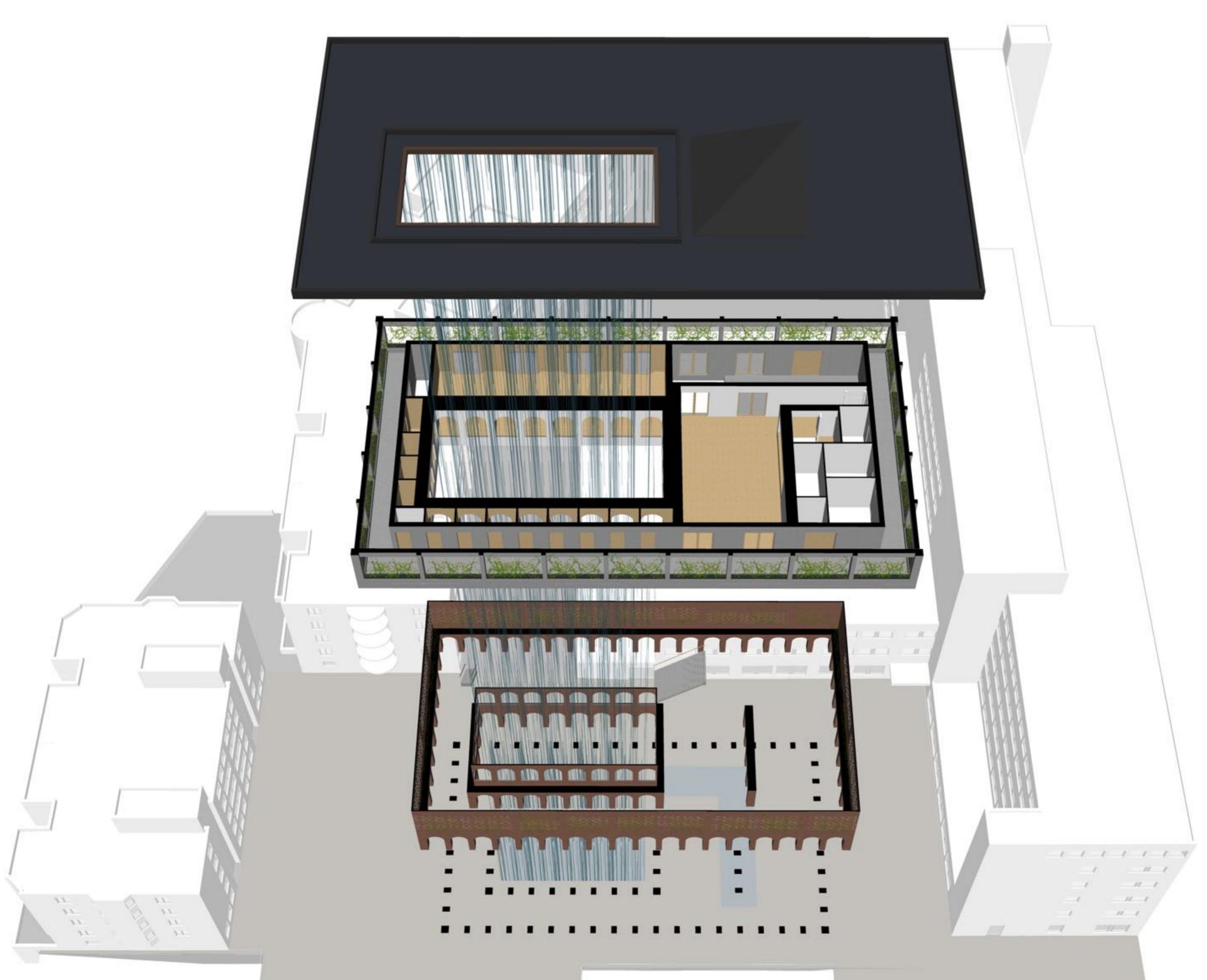
HIDFAWAY a claustrum for the mind

"a claustrum for the mind"

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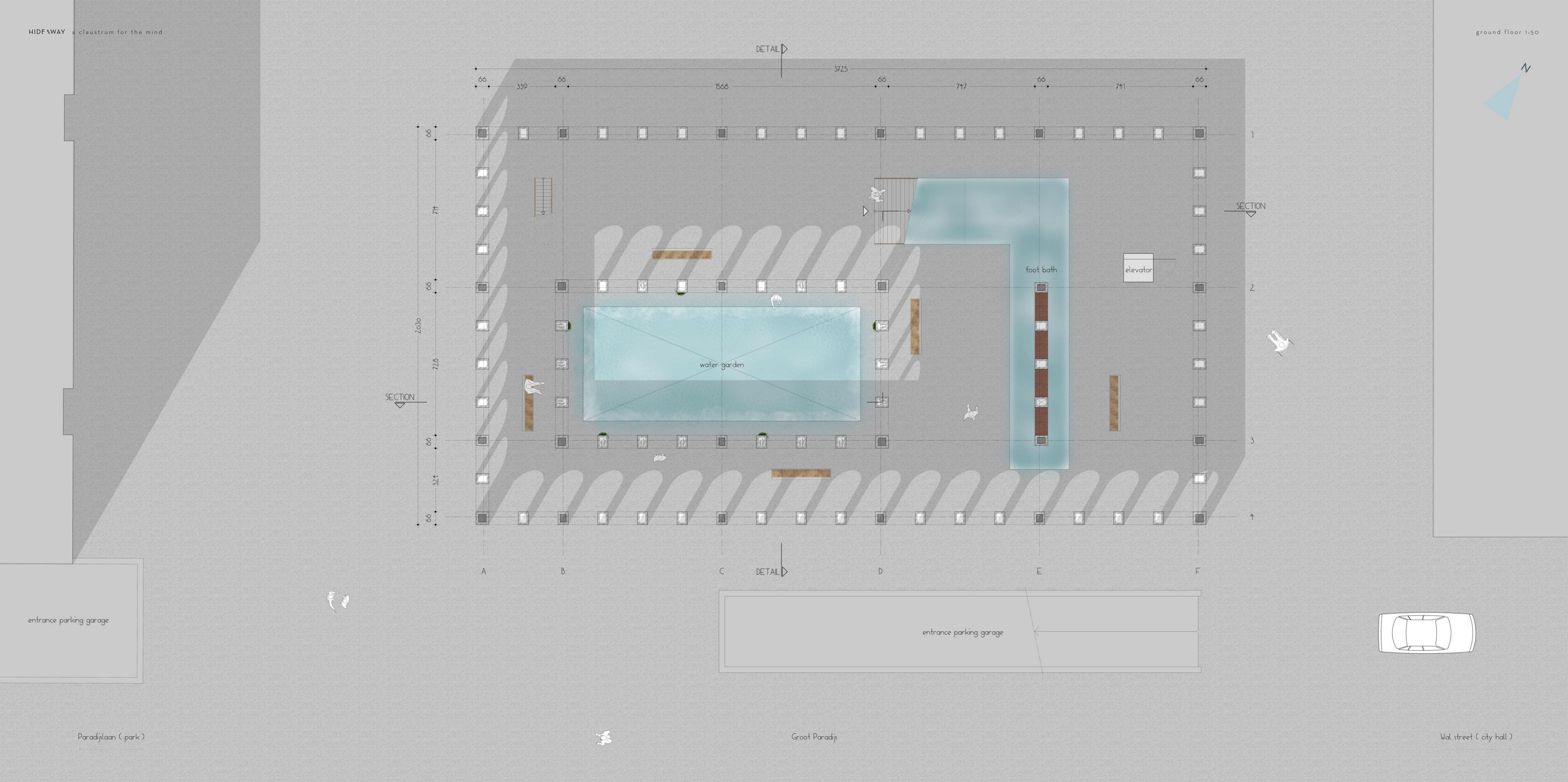
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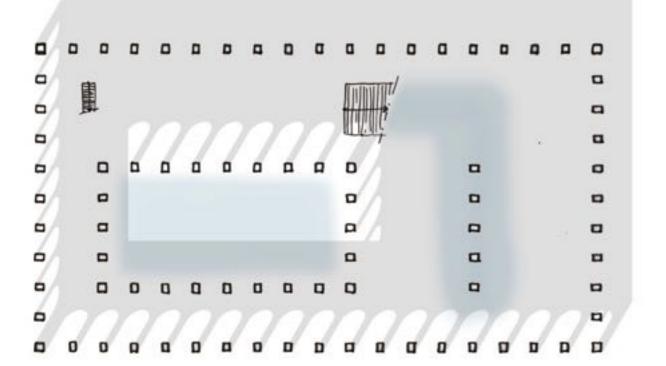
HIDFAWAY a claustrum for the mind

exploded view of hideaway on groot paradijs square

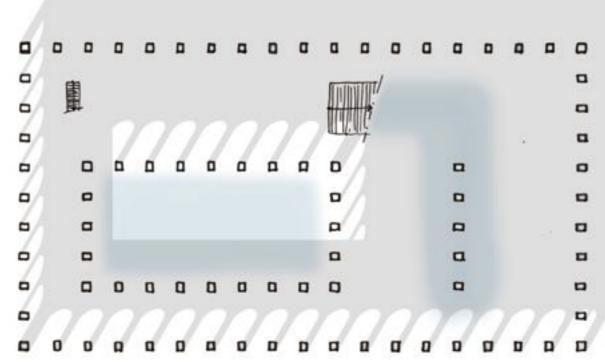




O1 view from cityhall (wal street) to Groot Paradijs square



"a claustrum for the mind"



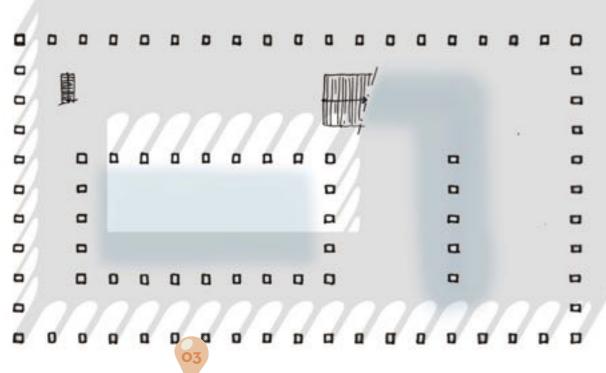


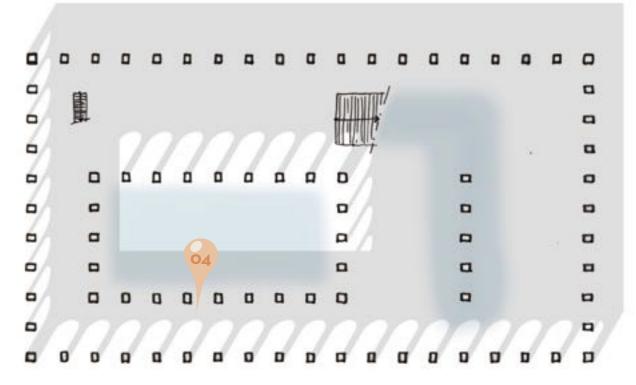
O2 view from park (paradijslaan) to Groot Paradijs square

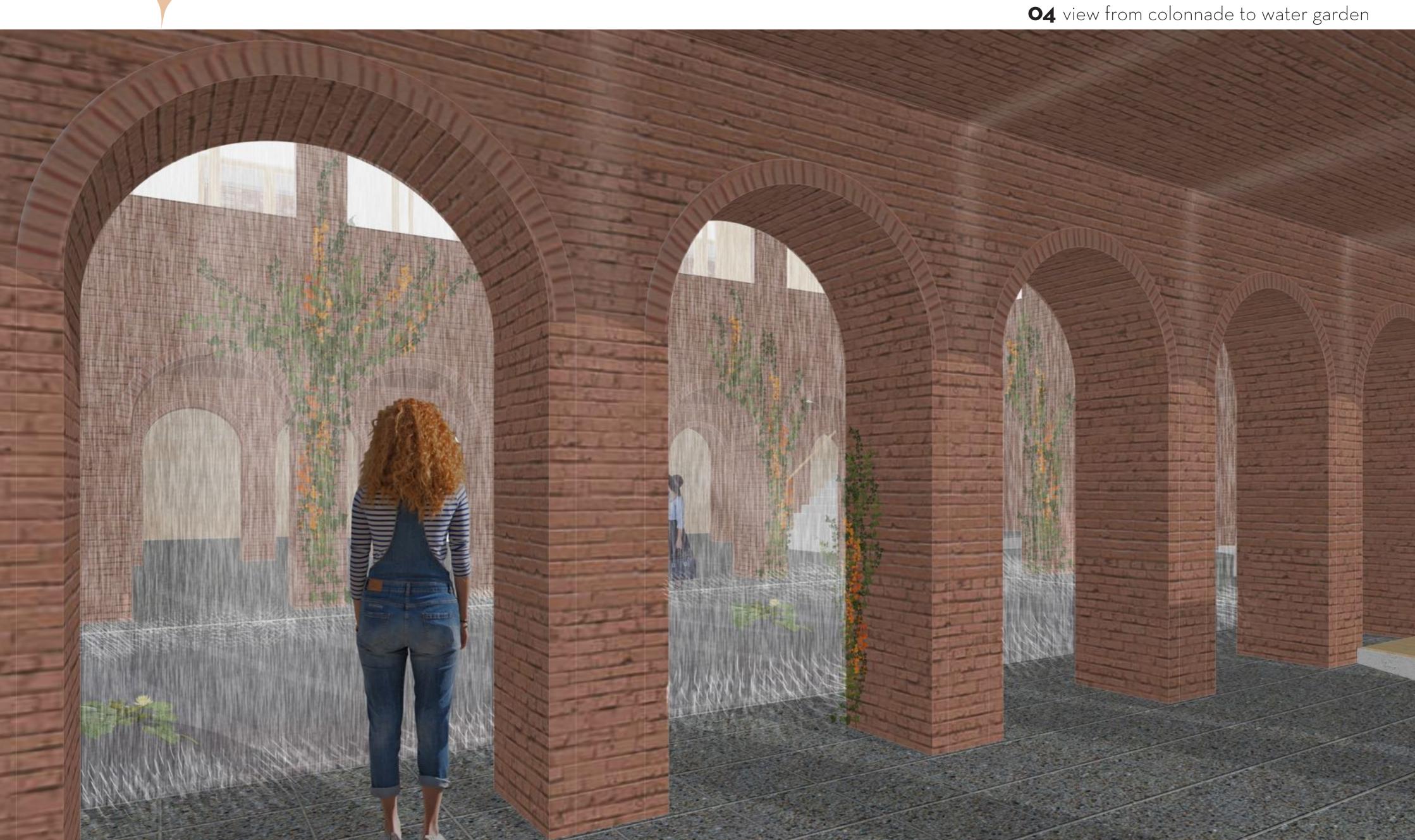


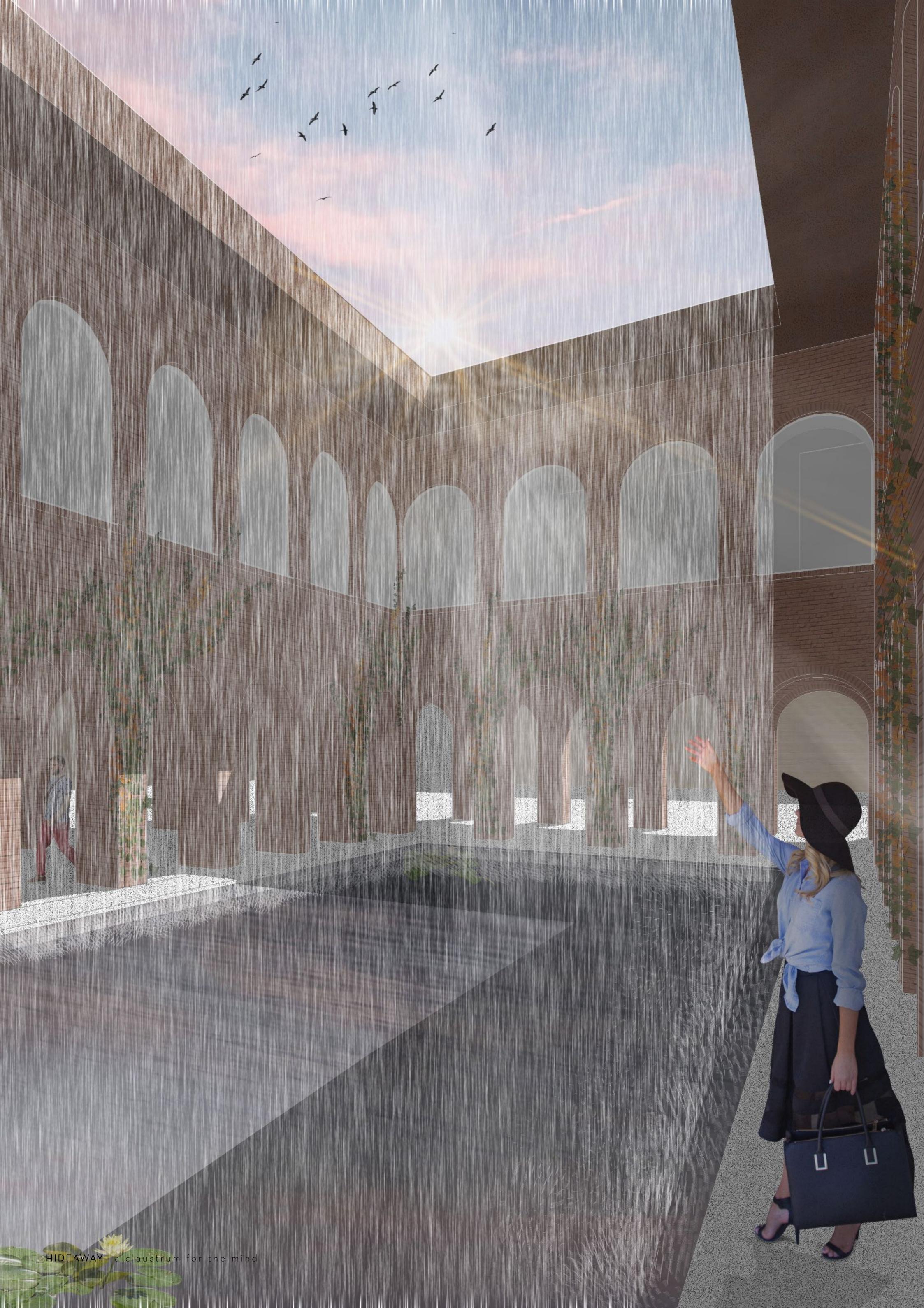


O3 view from square to forest of columns



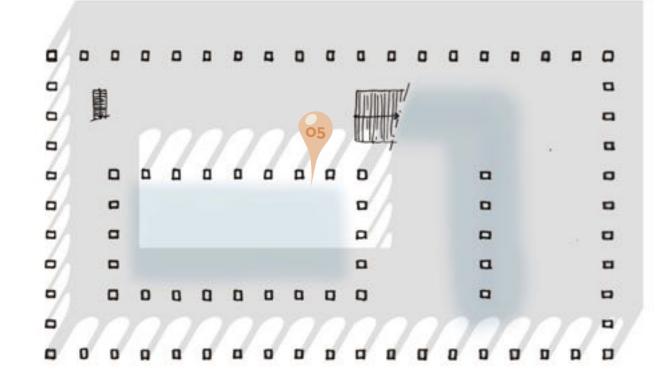


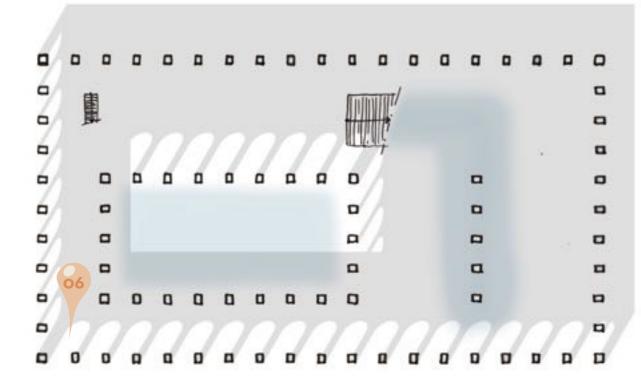






05 view in the water garden



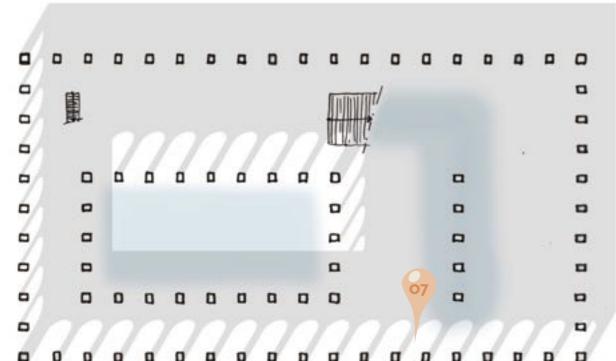


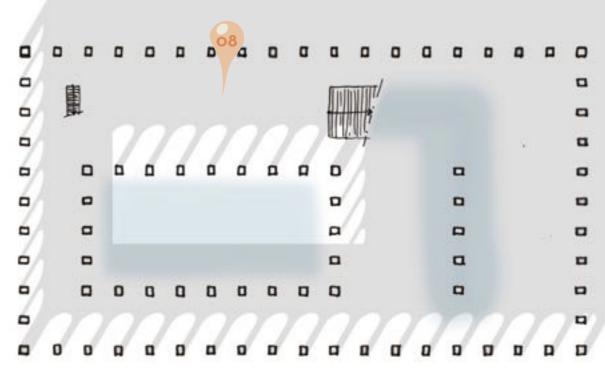
06 view through colonnade

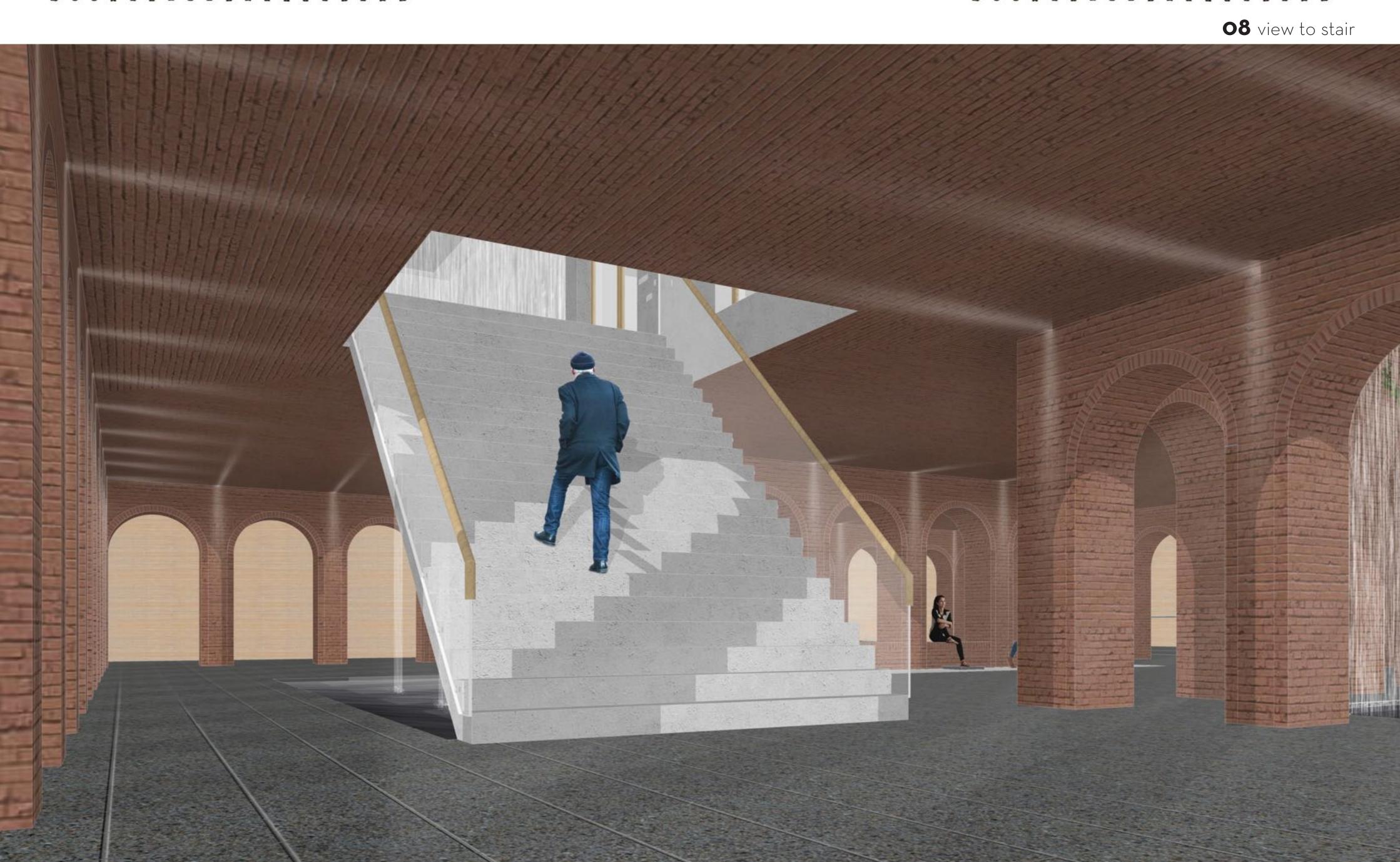




O7 view from foot bath to stair

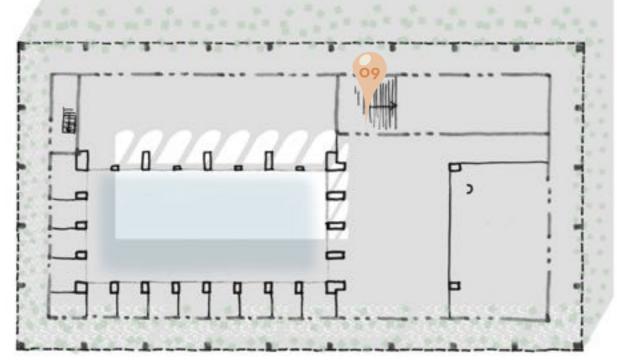


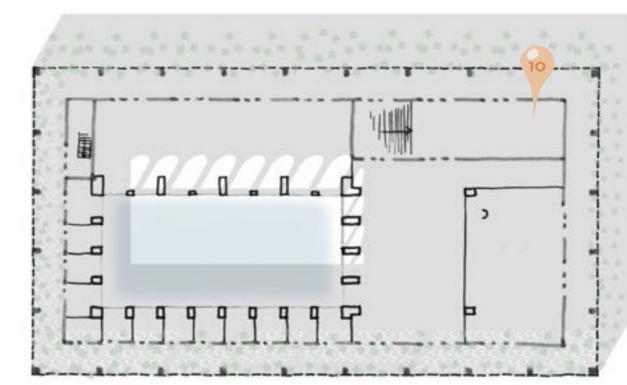






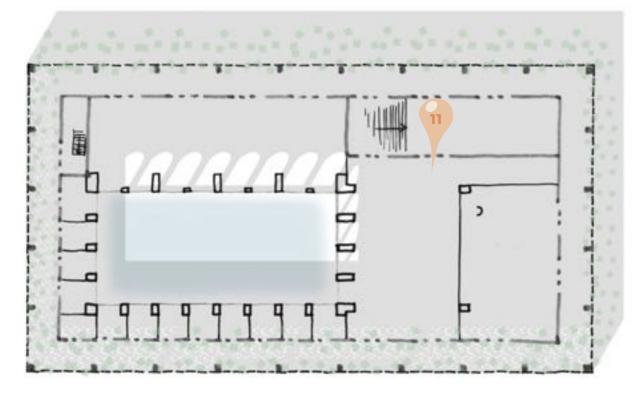
09 view from stair to water wall and boxing space



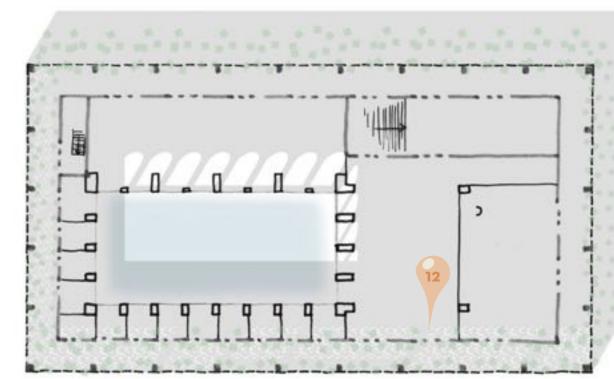




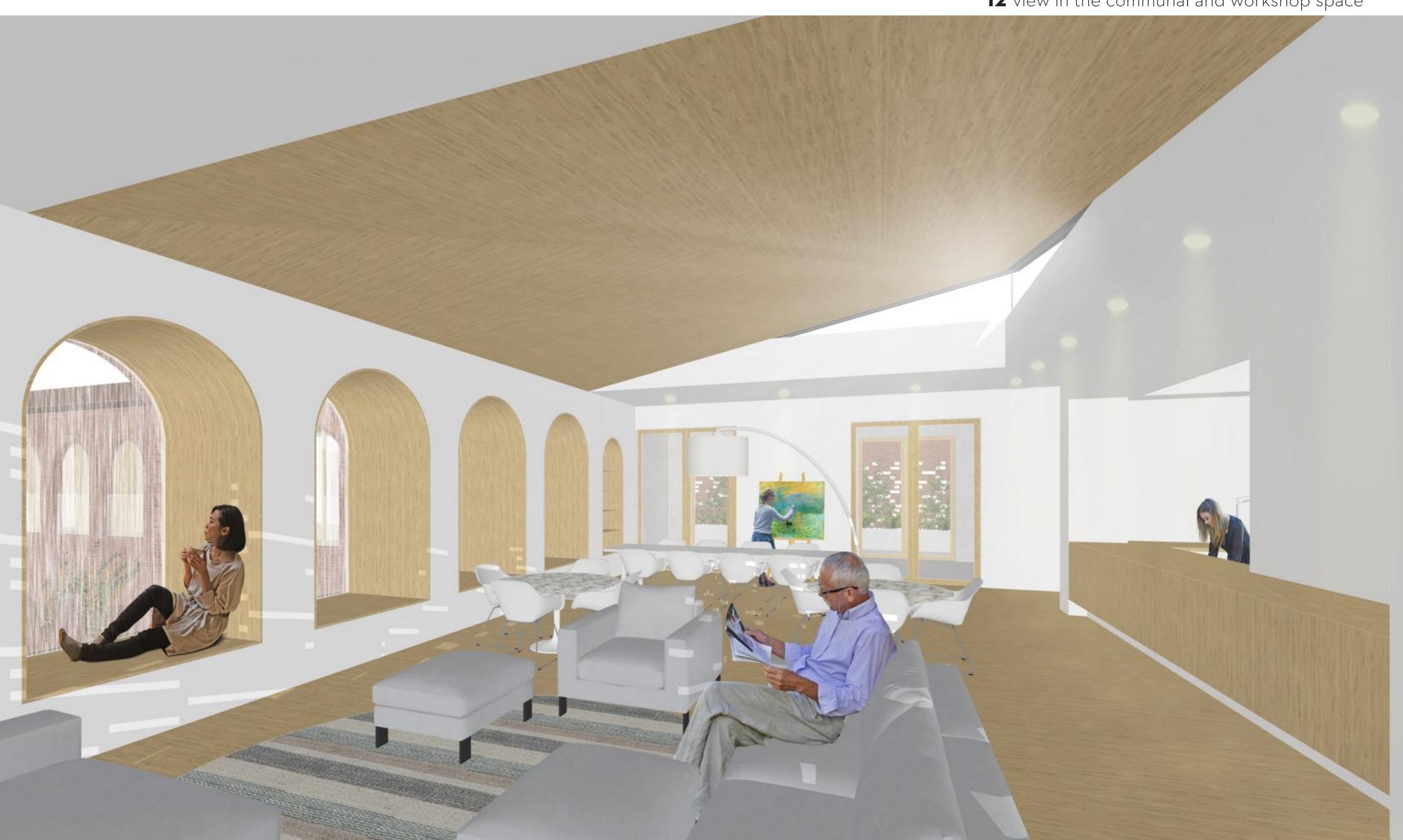




HIDF 4WAY

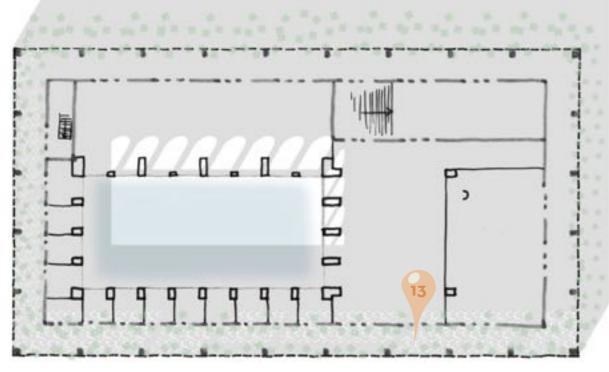


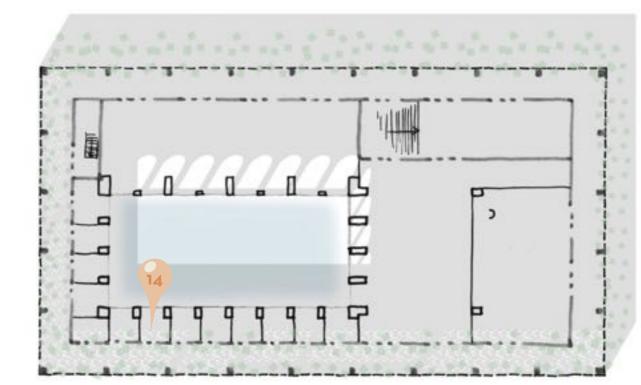
12 view in the communal and workshop space

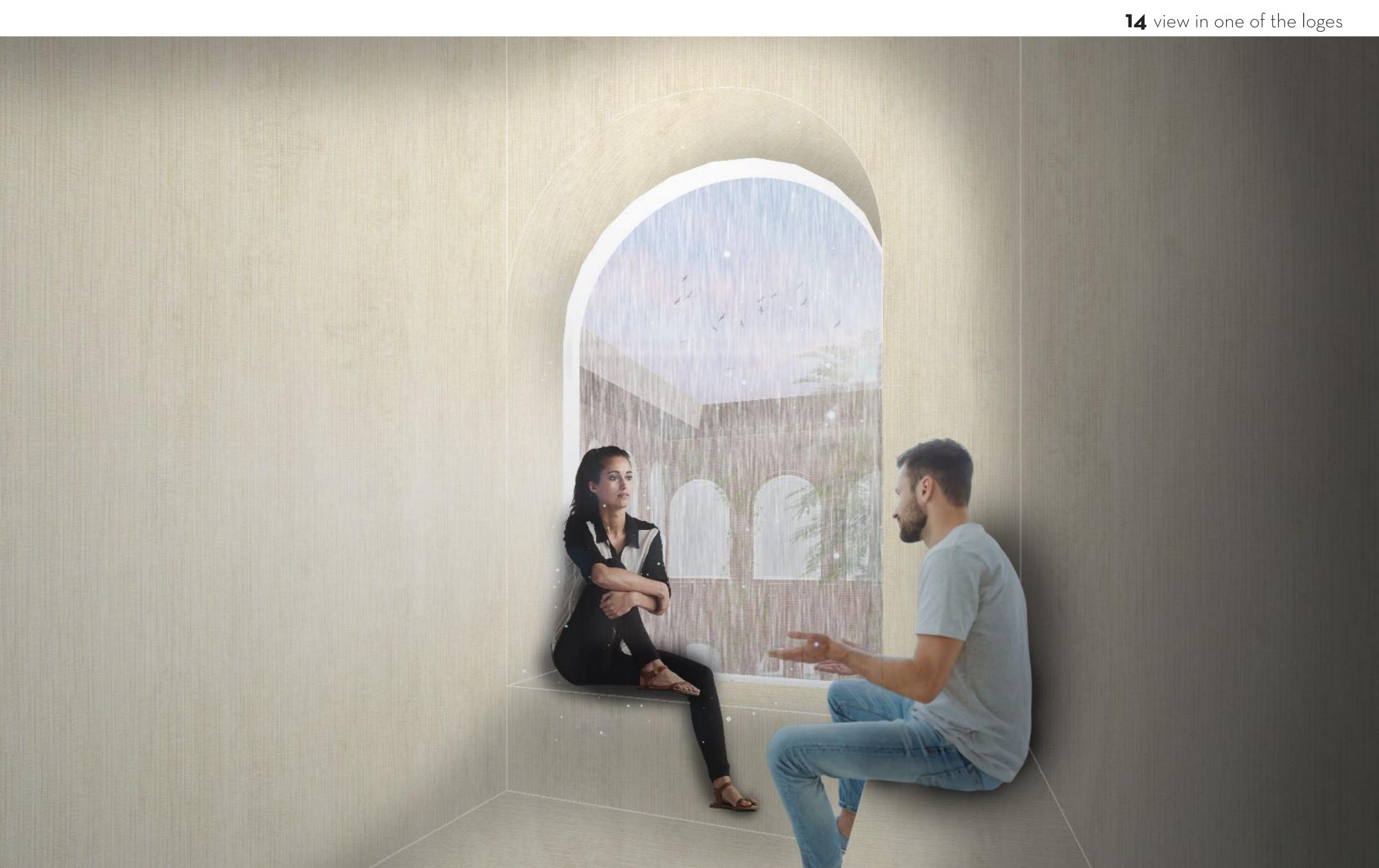




13 view in walkway

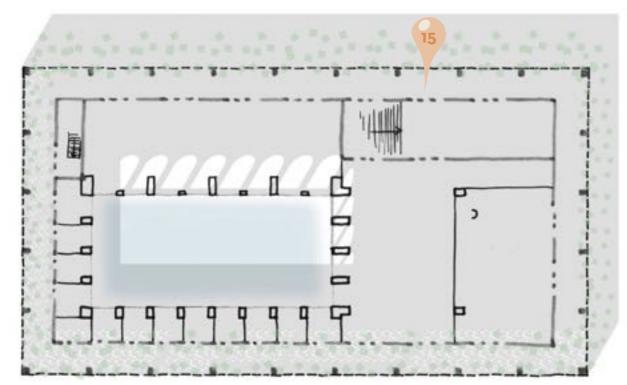


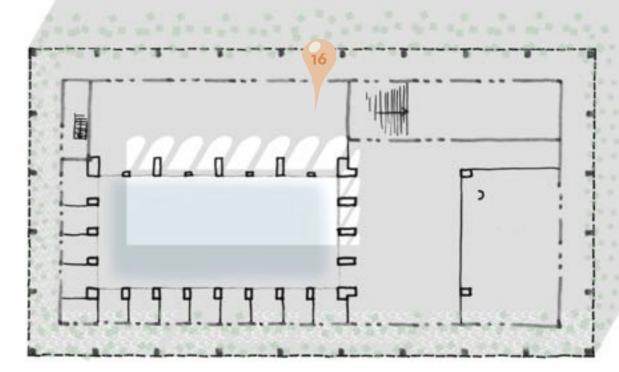






15 view in walkway next to the entrance

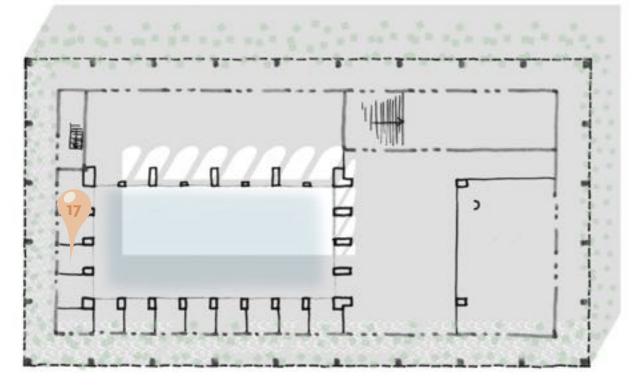


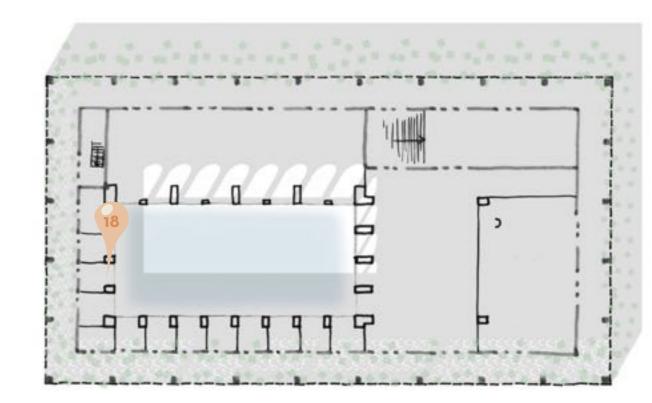


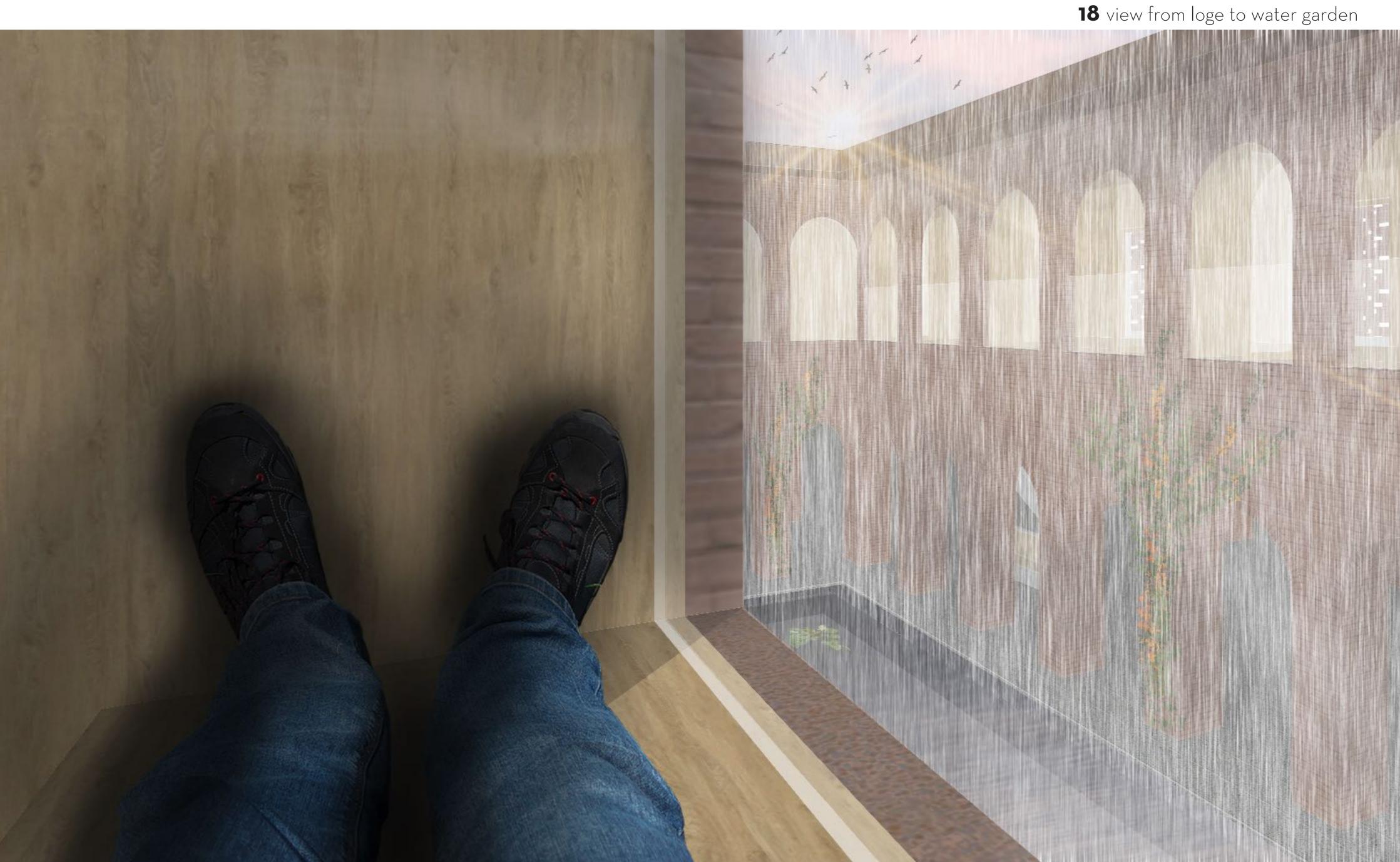




17 view in one of the loges







Water garden

Hideaway uses water as a contemplative element, and at the same time for sustainable reasons. Rainwater is catched on the roof of 617m2. The water buffer on top of the building helps to keep the building cool inside, but is also a mirror to the sky for the residents living around Hideaway. It seams that the water overflows on the edge of the roof inside the patio, which creates a big water curtain. This creates privacy between interior spaces and creates a place to contemplate and to cool down in the mist.

How does the water system work?

First of all, the rainwater is collected on the roof. A control system, an online platform, calculates the rainfall and makes sure that there is always space to collect the rain without overflowing. This control system also knows when there is water needed for the water curtain. The water pump gets a signal from the control system, and pumps water of the 'dirty' roof through the UVC filter, to clean the water and get rid of algae. From the UVC filter the water goes to the 'clean' roof, the boxing space and the plants in the walkway. The water falling from the roof is collected in a water basin on ground floor. The water falling in the boxing space falls in a second water basin on ground floor via a drainage. Thereafter the water is collected in a storage tank in the basement. The water in the tank can be used to flush the toilets or to create a water curtain during dry days. The control panel gives a signal to the water pump in the basement when a lot of rain is expected to release it in the sewerage system.

Hortus Conclusus

Hideaway is a walkway in nature. On groundfloor around the water garden, on the first floor in an enclosed garden, a hortus conclusus.

The walkway on the first floor has an outside climate and leads to all the interior spaces. Daylight enters through an open brickwork facade and a gap in the ceiling that creates a dramatic flood light along the wall and plants. This gap allows rain to enter as well to water the plants. The plants also receive water from the water system. The walkway is full of shadow to experience the light that enters. This means that the plants also need to grow well in shadows. The plants climb along the wall and escape to the outside of the building through the open brickwork.

Which plants grow in the project?

Climbing plants:
Parthenocissus (Virginia creeper)
Trachelospermum jasminoides (Star jasmine)

Plants: Helleborus niger (Christmas rose) Polypodiopsida (Ferns)

