



P5 PRESENTATION · INÉS HEMMINGS · 4516540

AR3AR111 · HARBOUR HERITAGE GRADUATION STUDIO · 2017/18 · SANTOS

LIDY MEIJERS · NICHOLAS CLARKE · BAS GREMMEN

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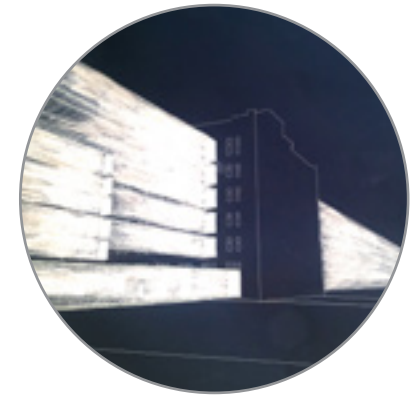




FASCINATION



STORY



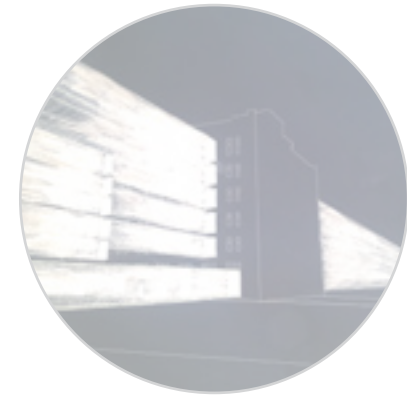
EXPLORATION



FASCINATION

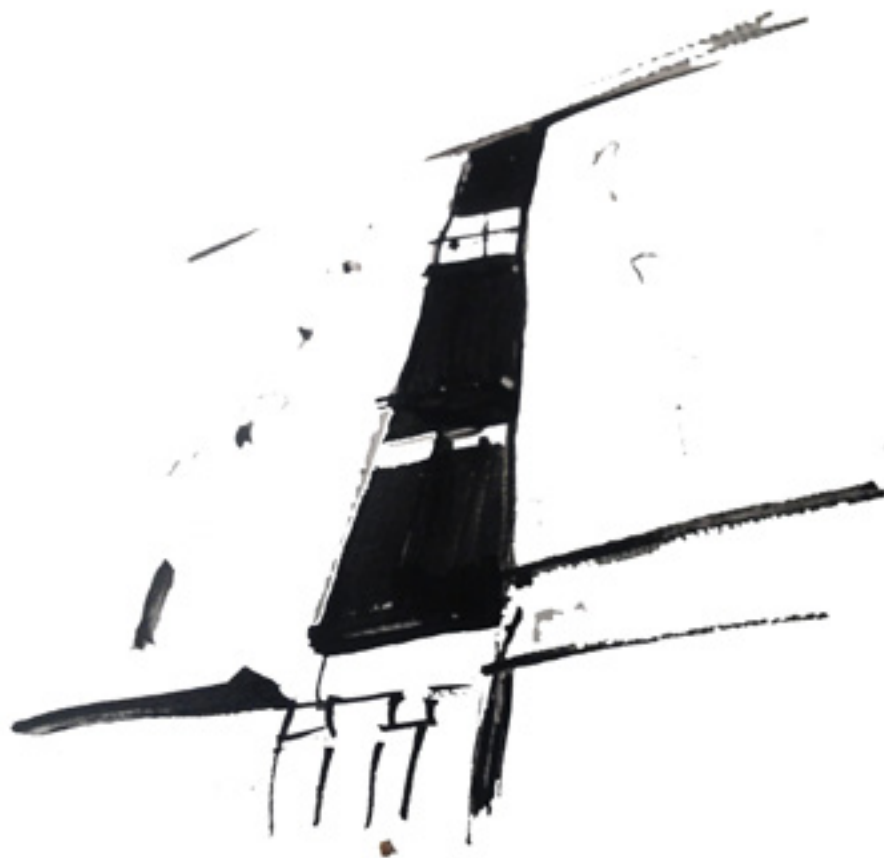


STORY



EXPLORATION

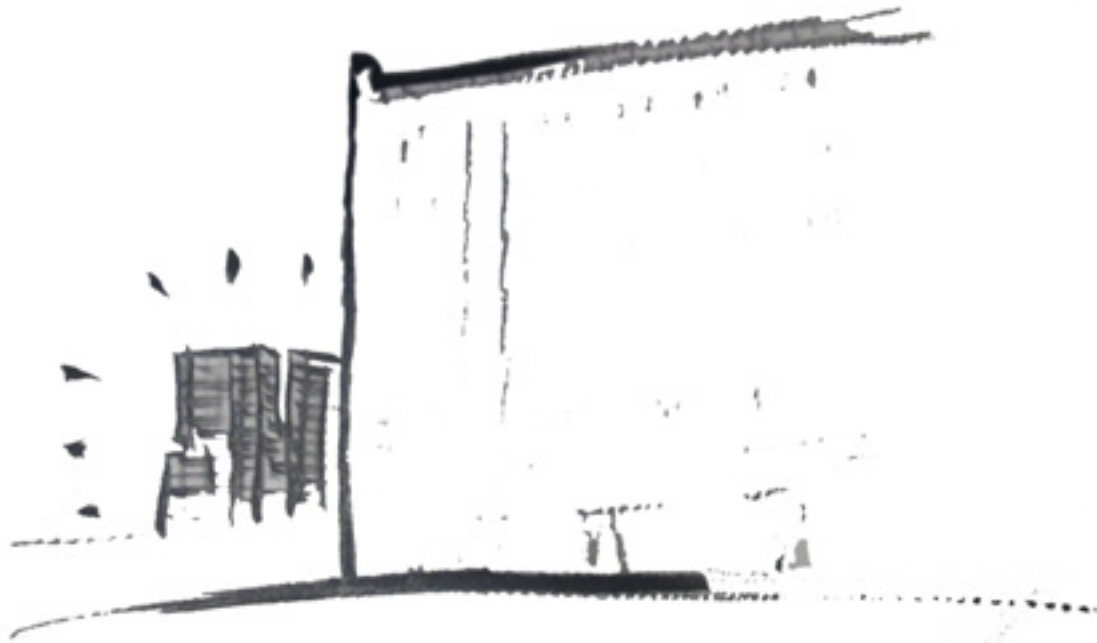








MANTOS



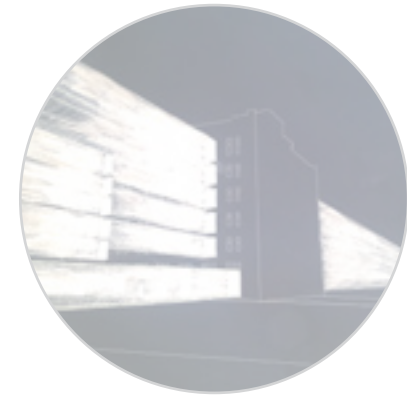
REALIZATION: SANTOS IS MORE THAN THE BUILDING ITSELF BUT PART OF A LARGER STORY.



FASCINATION

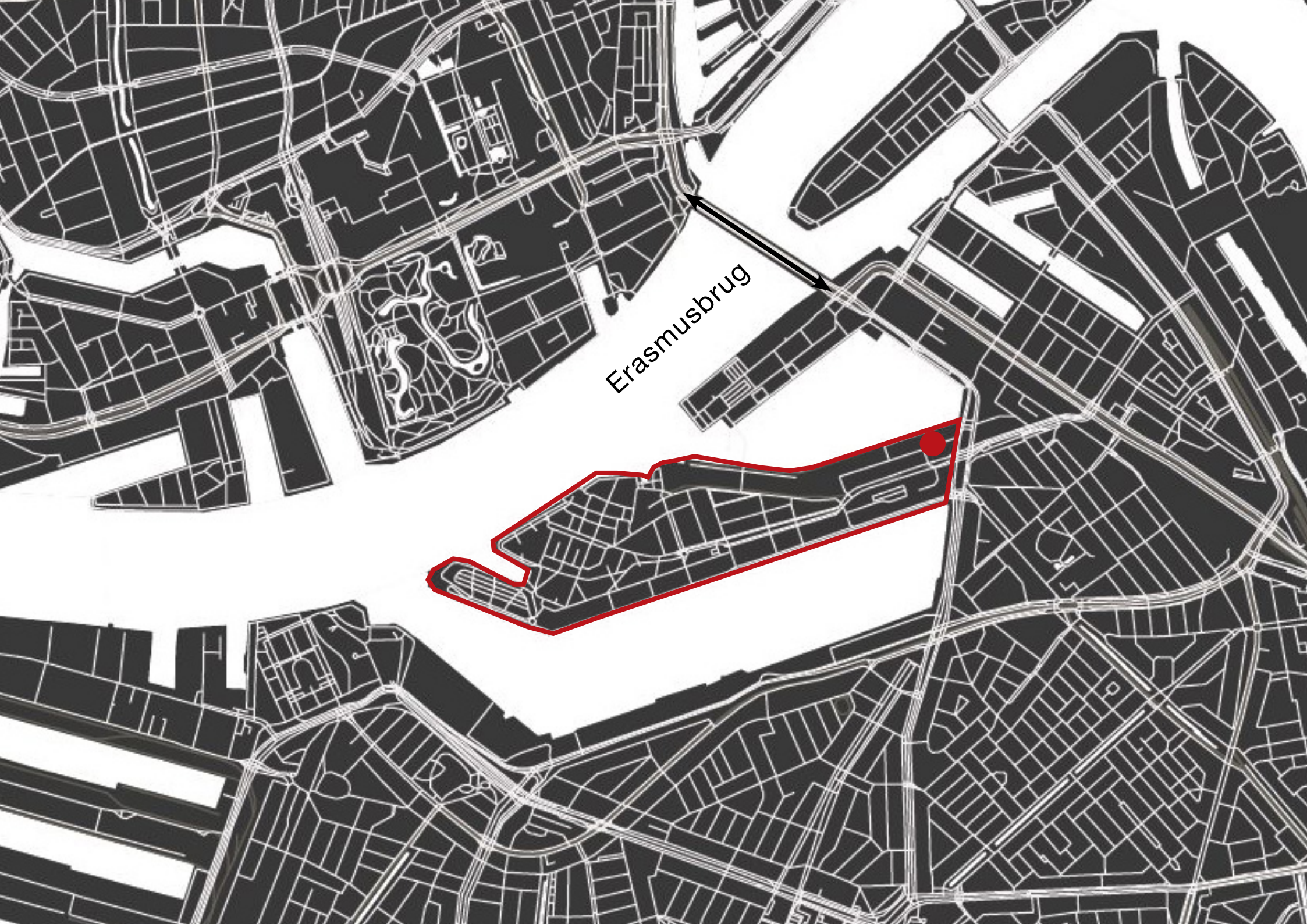


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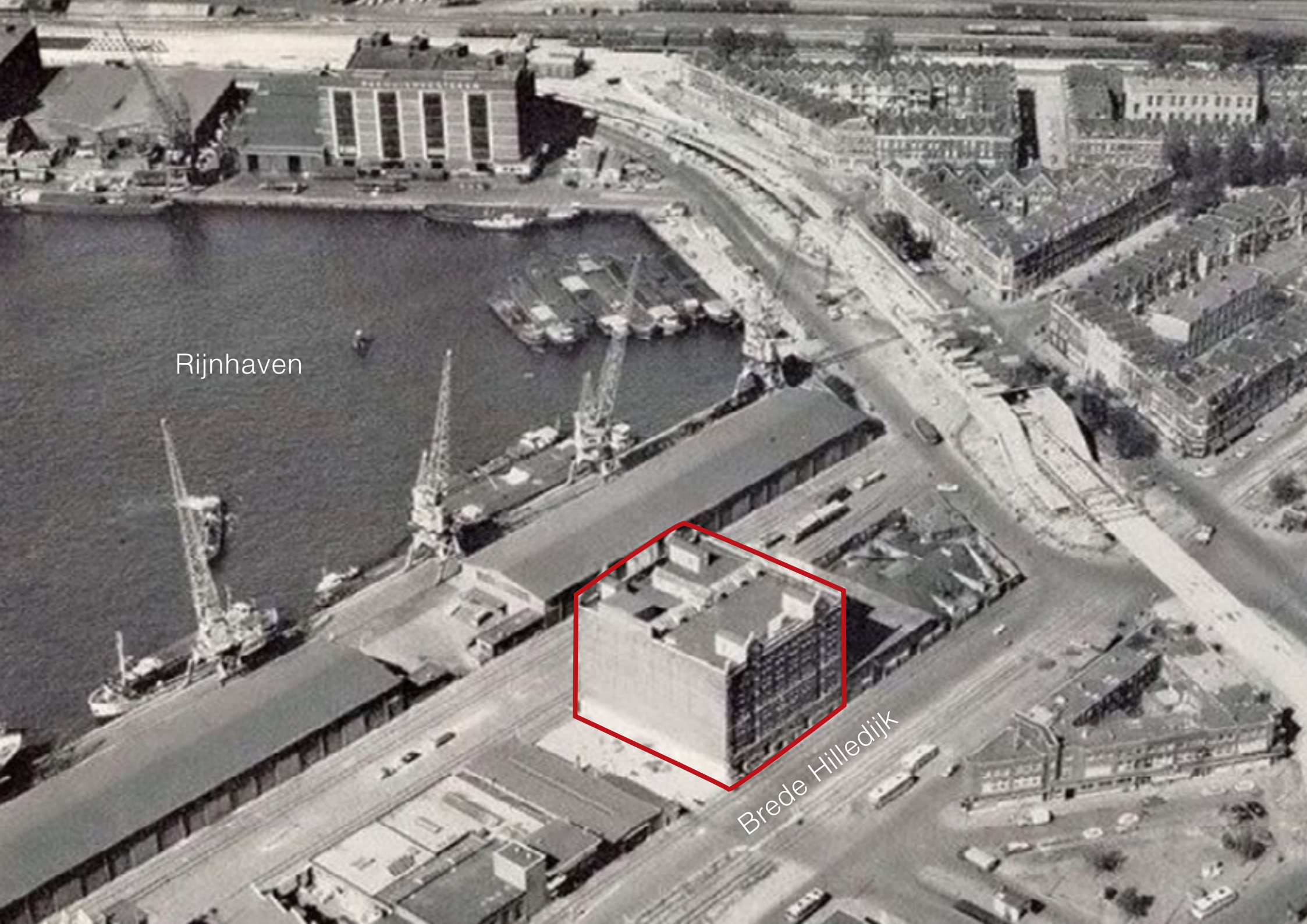


EXPLORATION



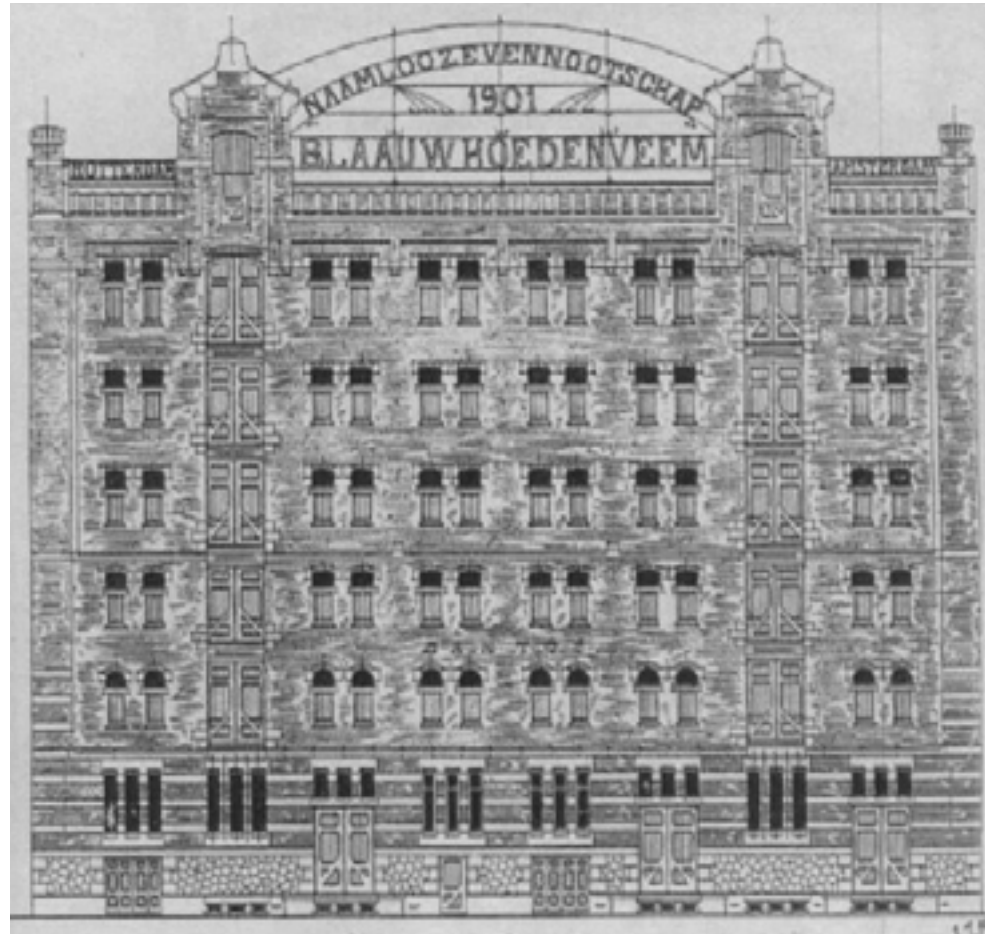


Erasmusbrug



Rijnhaven

Brede Hilledijk



J.P.Stok & J.J. Kanters

1903

Late 1920s

Warehouse and Entrepot



WW II

Munition Storage



1975

sold to BV Handelsveem

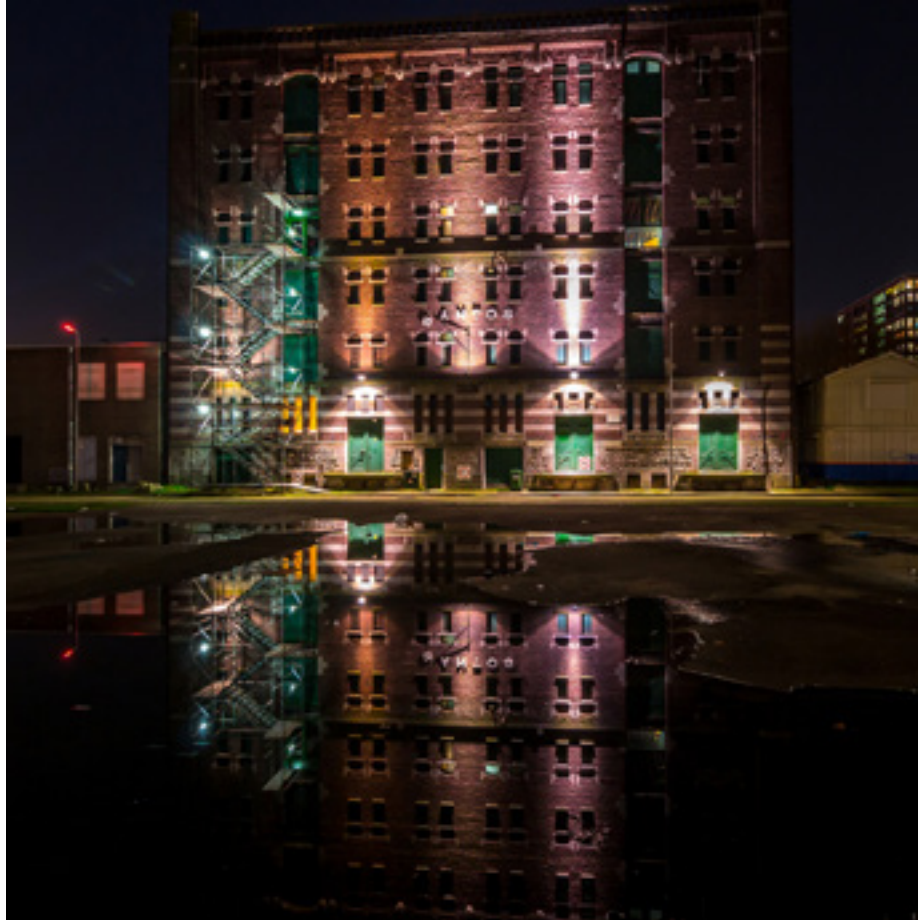


1. Architectural
2. Typological
3. Cultural-Historical

'...as one of the few remaining harbour heritage buildings in Rotterdam - it demonstrates the city's development of one of the world's largest ports & forms the essence and identity of Rotterdam.'

2000

Rijksmonument



Vacant - Awaits a new function





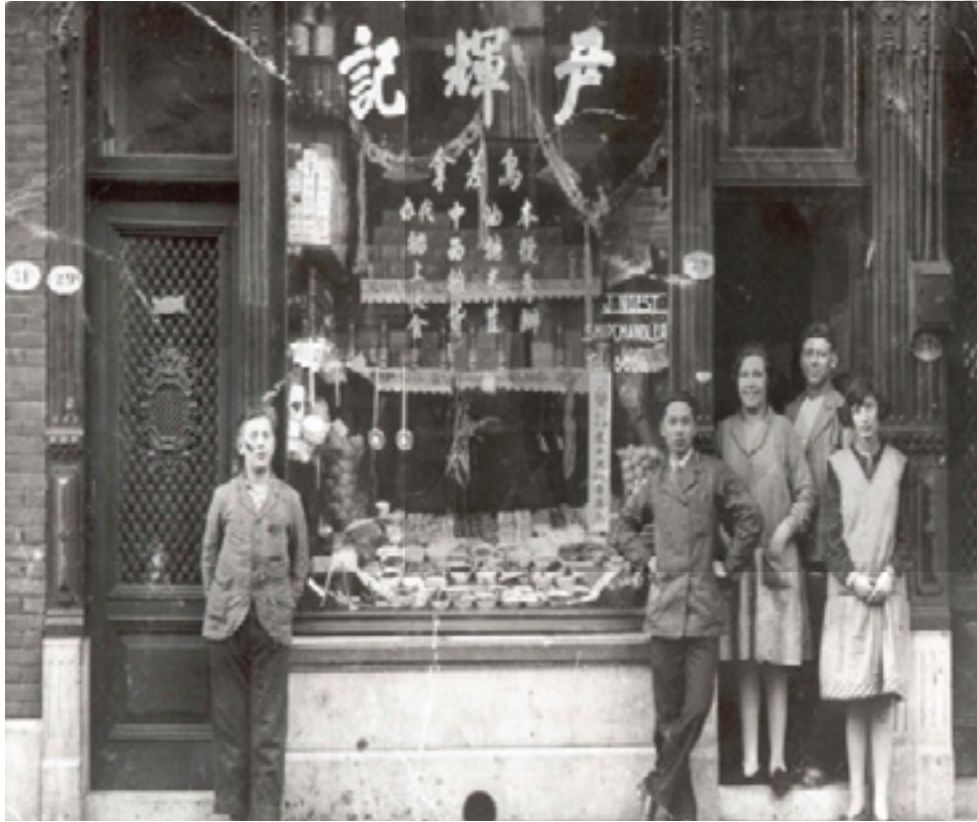
Small settlement for wealthy citizen

1860s



Harbour activities

1890s



Sailor's strike: import of chinese workers

1920 1930





Lawlessness: Prostitution

1930s



Lawlessness: Prostitution

Rijnhavenbrugg 'Whore Walker'

1930s



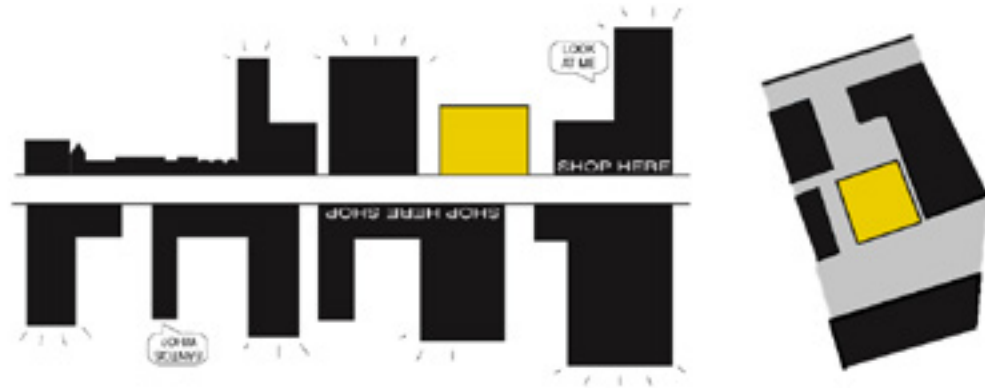
Jazz scene: Belvedere Verhalenhuis

WWII



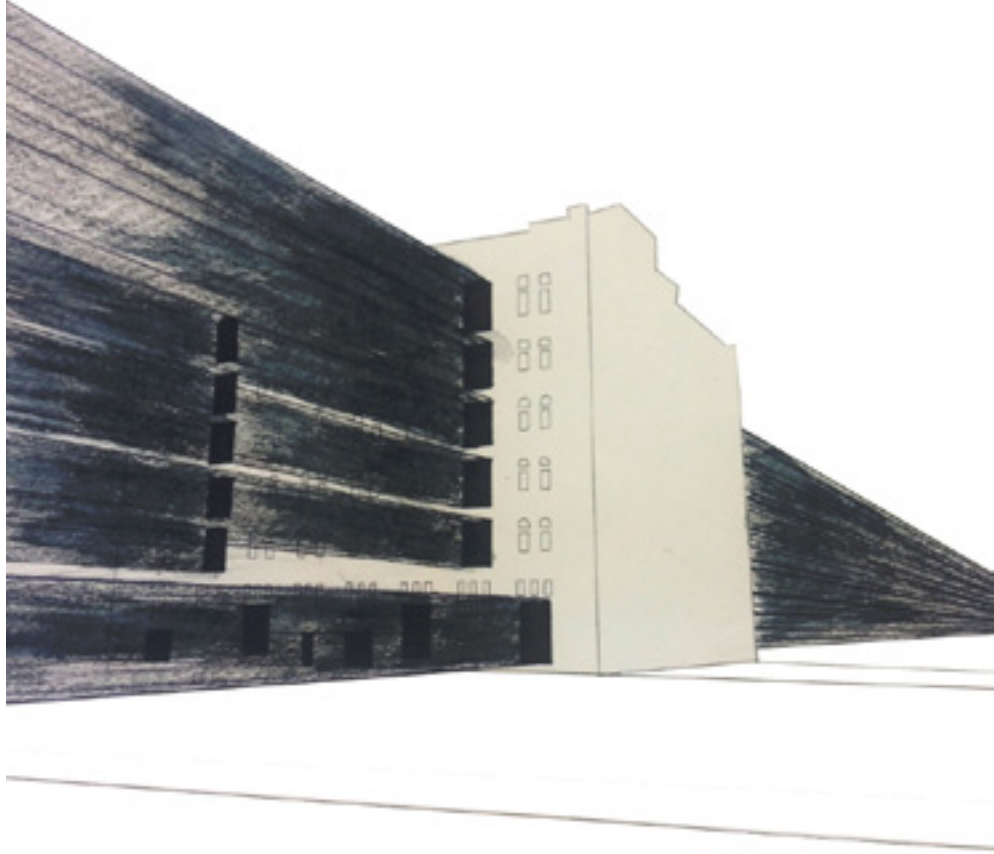
From problem district to popular and safe

past years

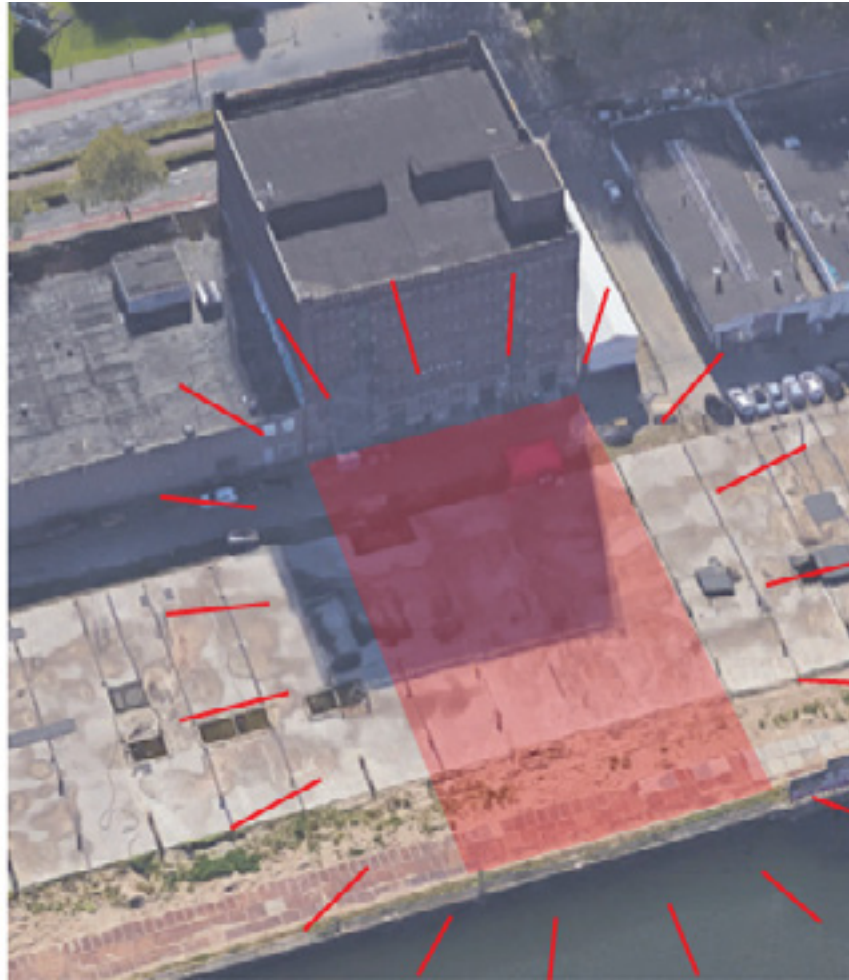


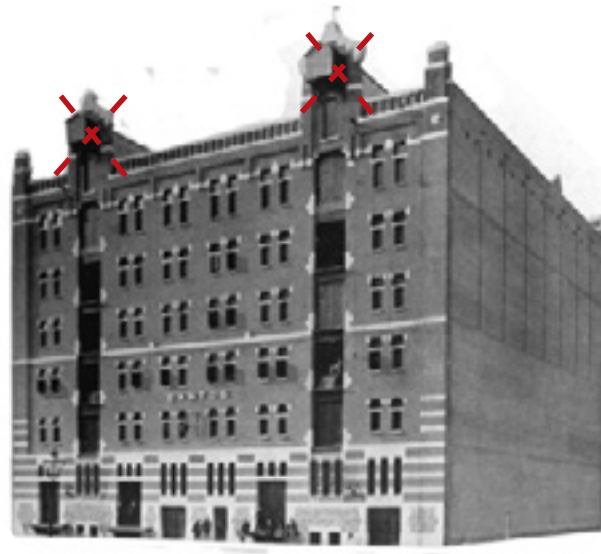
Municipality: trendiest and creative plans for Katendrecht 2020

2020

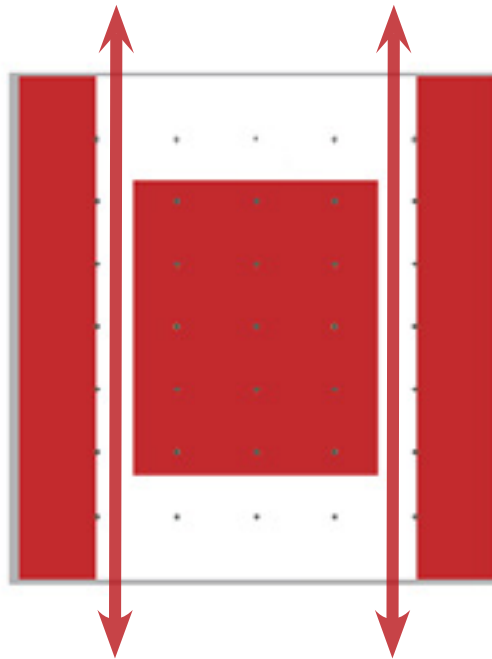
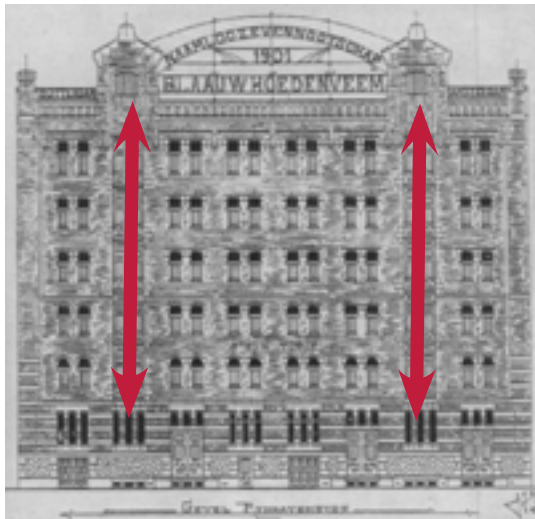


Water

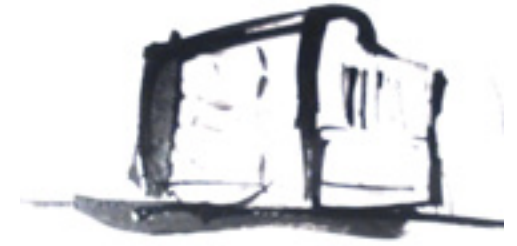




Proof1: Winch houses



Proof2: Vertical Door Openings

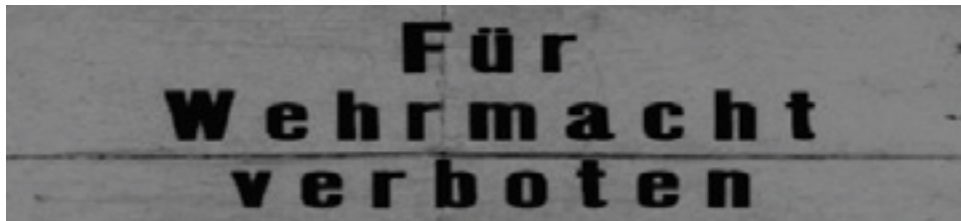
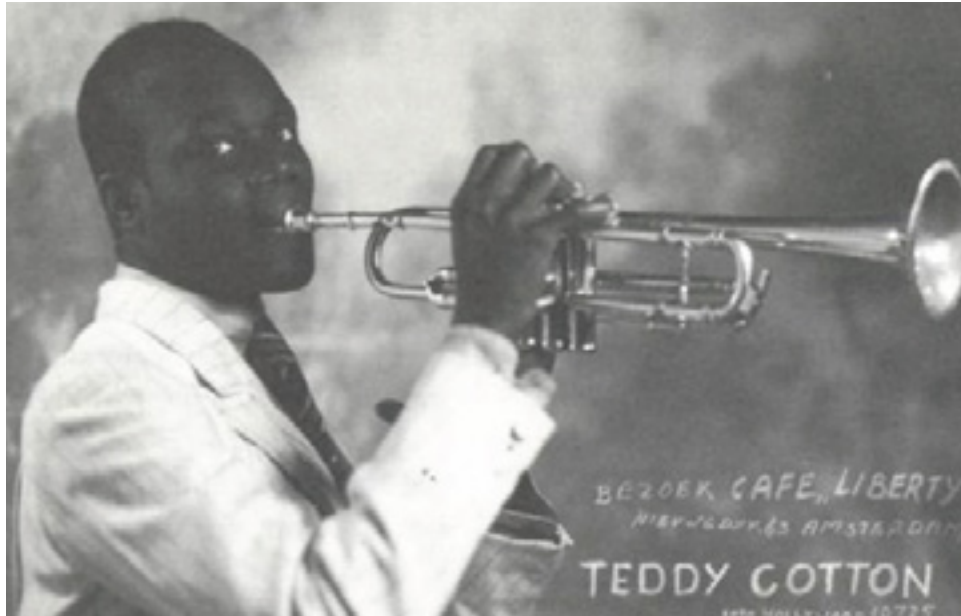


Threshold



Gloom

Katendrecht



Belvedere Verhalenhuis



Water

Threshold

Gloom



ANTOS House of Jazz will bring back the Jazz to Katendrecht.



**Für
Wehrmacht
verboten**

Nostalgia

‘....evoking fond memories, a longing for the past.’

Nostalgia

‘...a fondness of the future, a longing for the future.’

Nostalgia for the Future

How can this nostalgia for Katendrecht's past be translated into a nostalgia for the future and turn Santos into a place that opens new perspectives and inspires with new thoughts?

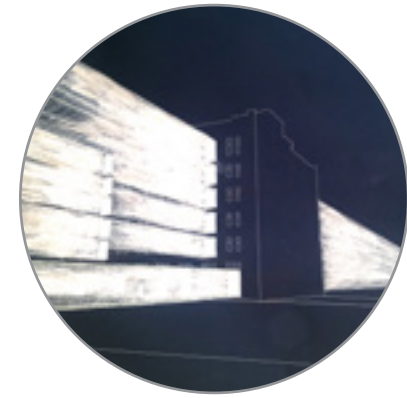
Research Question



FASCINATION



STORY



EXPLORATION

Nostalgia for the future

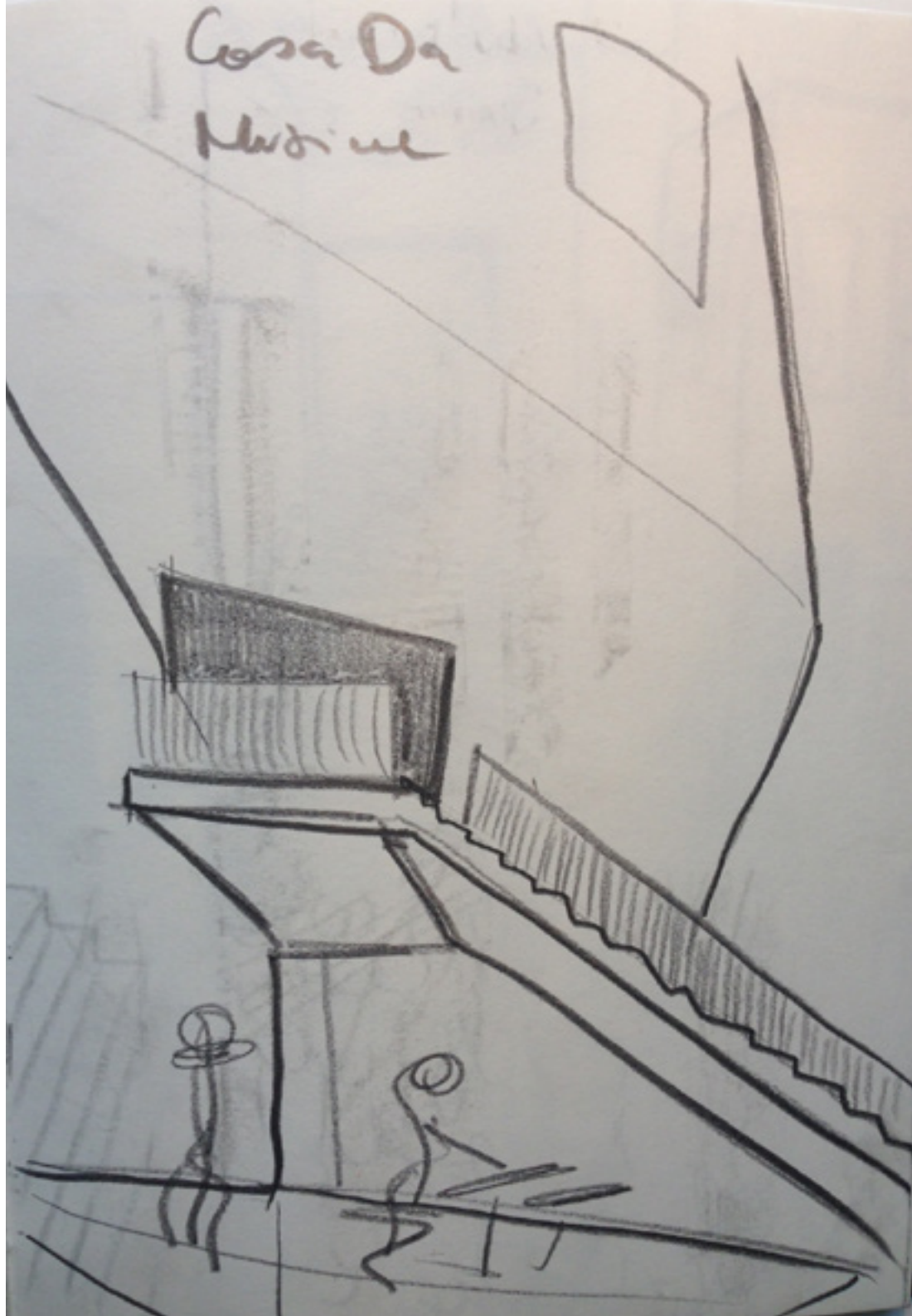


What is Jazz?

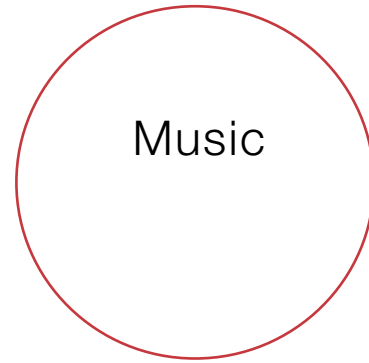
Columbo
Ja 77



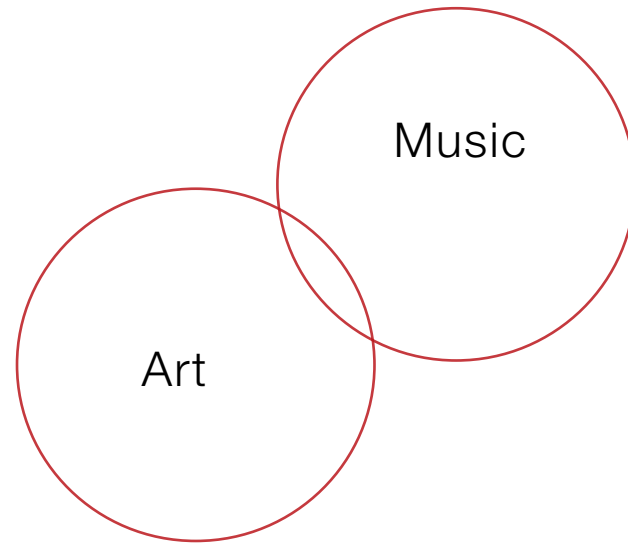
Casa Da
Medicine



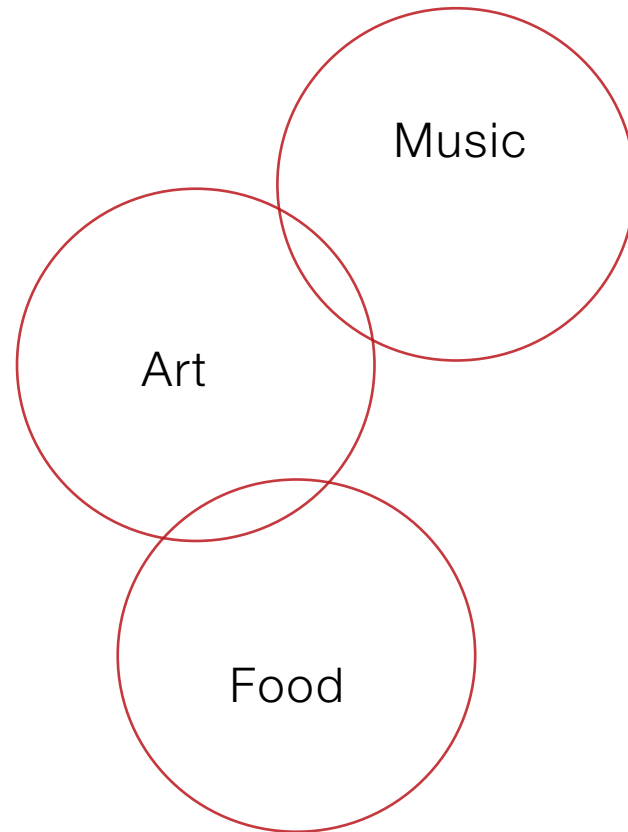
Nostalgia for the future



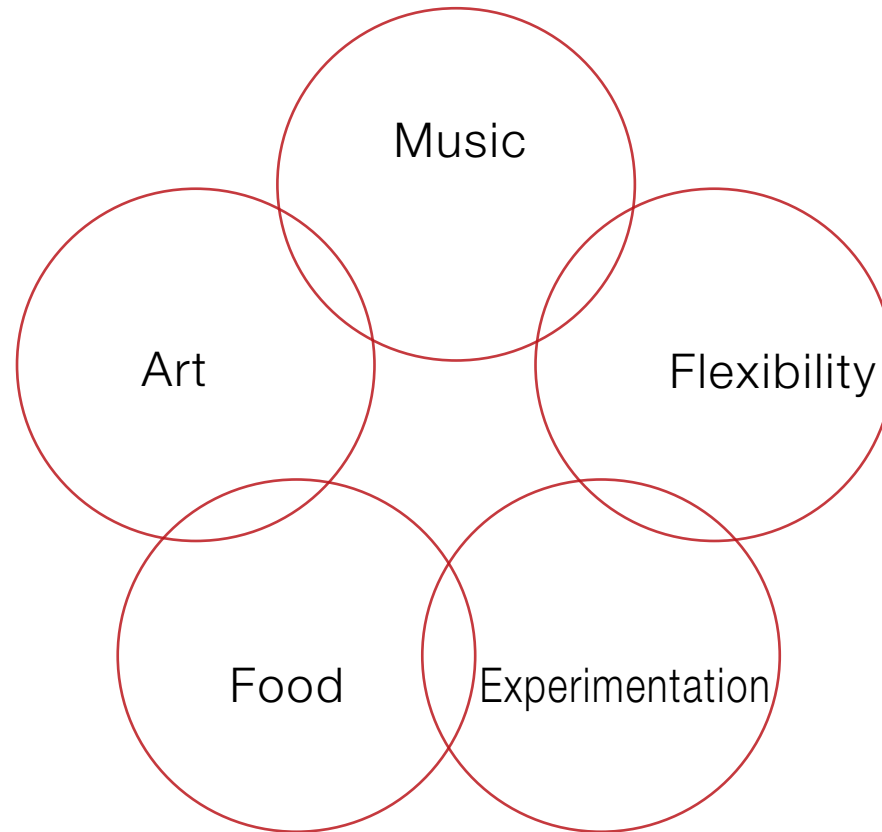
Nostalgia for the future



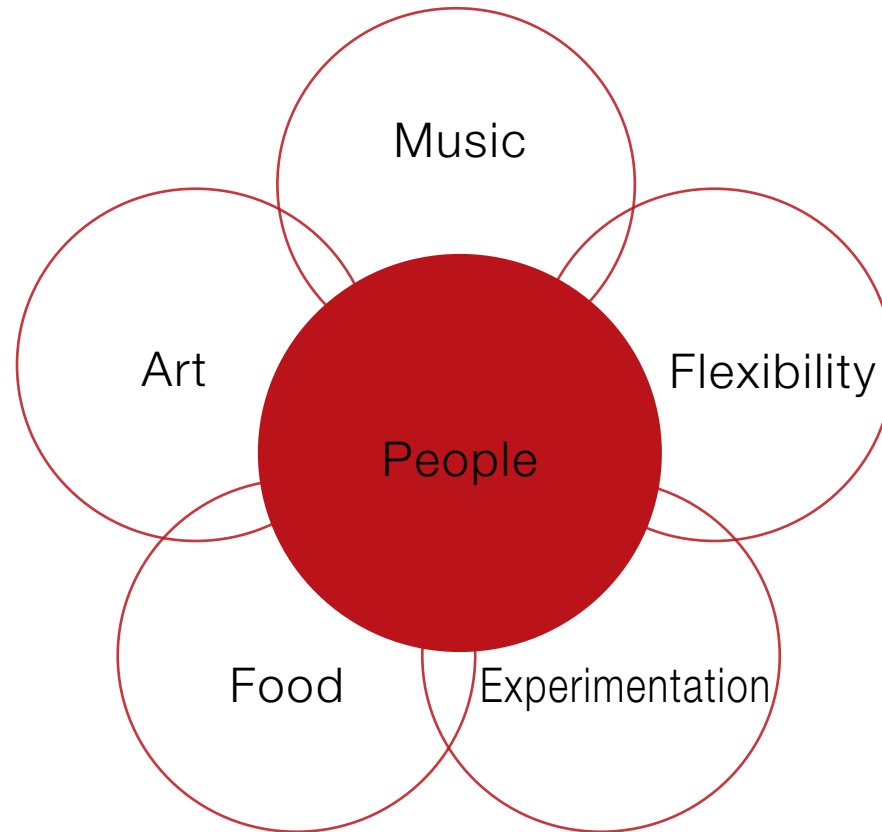
Nostalgia for the future



Nostalgia for the future



Nostalgia for the future



Experience Santos

Nostalgia for the future



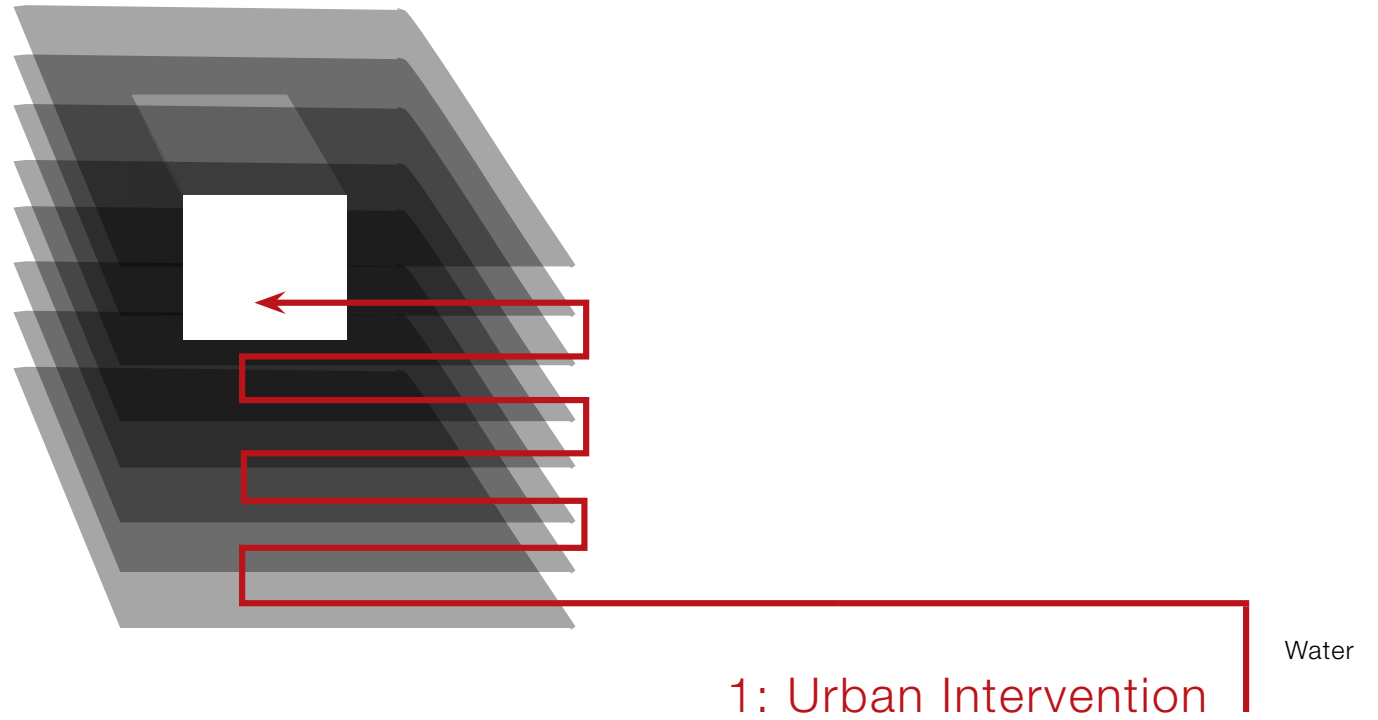
Our experience of an architectural space is strongly influenced by how we arrive in it. In most of cases, it is assumed that the main entrance is in the middle of the facade, whereas in this case it is the smaller portal on the furthest left.

‘The Unknown’

Nostalgia for the future

2: Building Intervention

Any aesthetic quality is enhanced by a counterpoint. The regularity of low gloomy levels is interrupted by a high bright space.

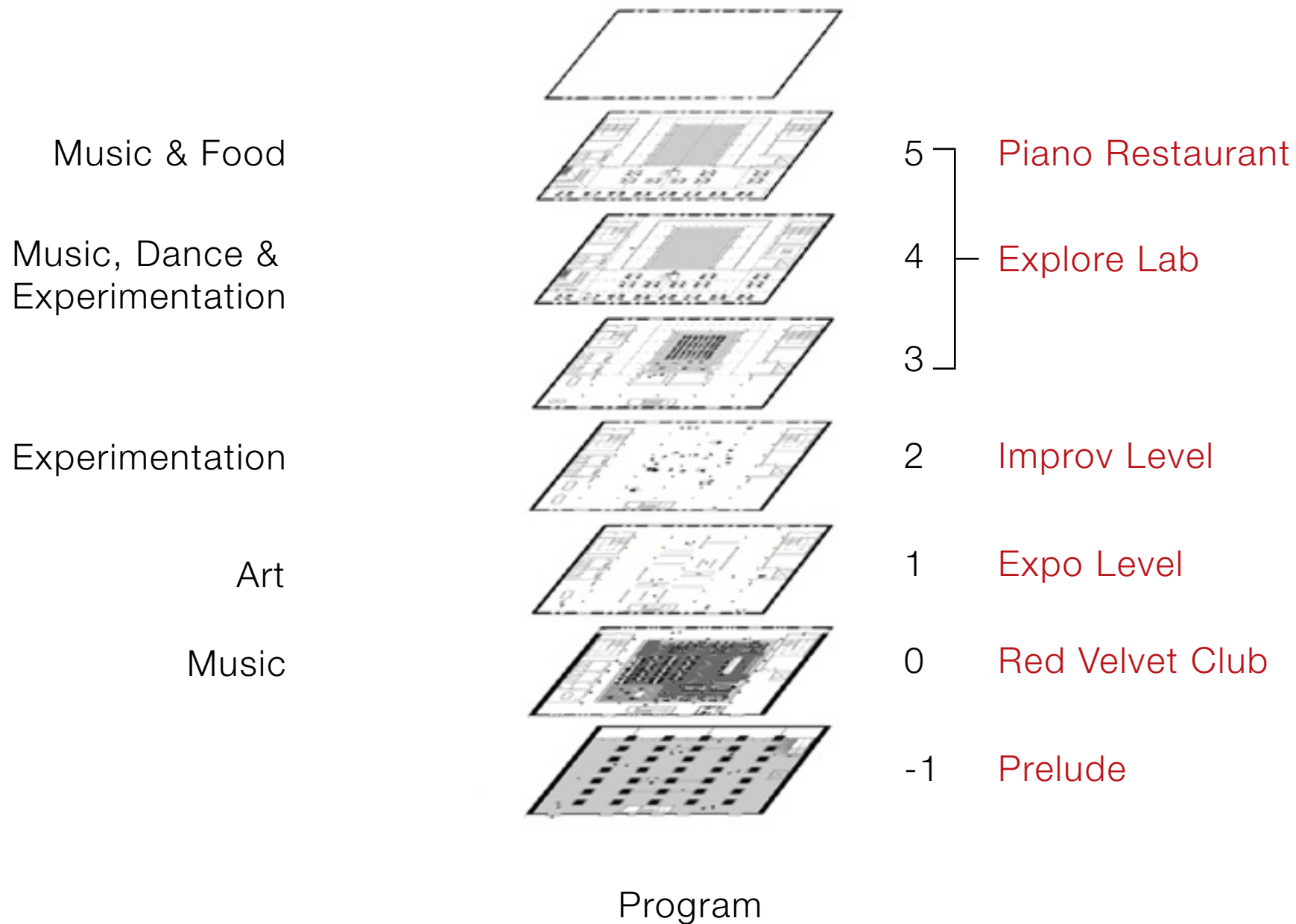


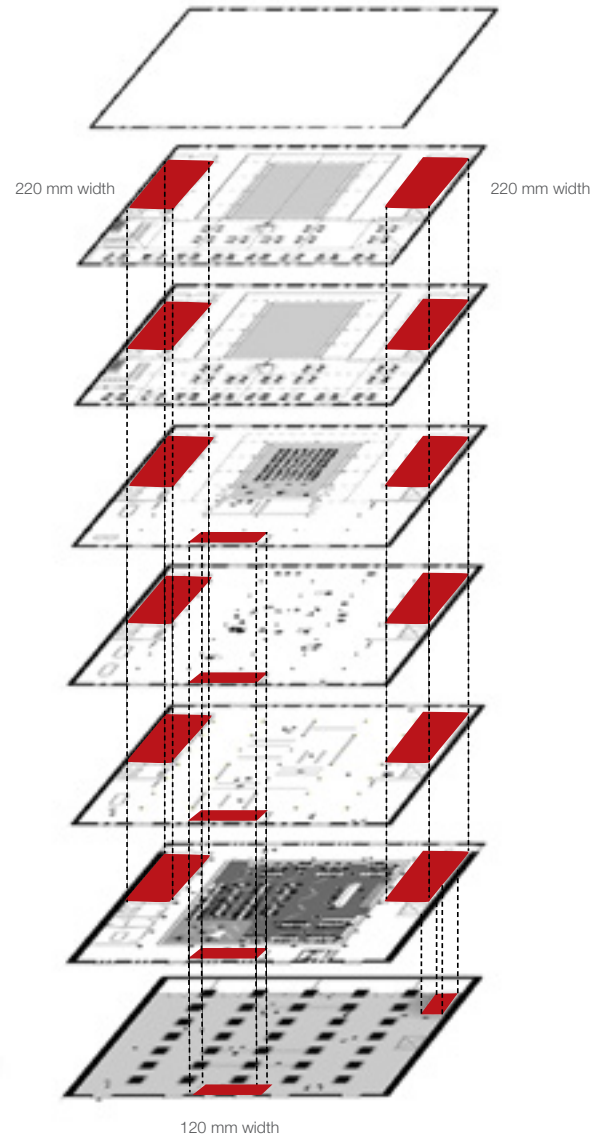
Framework of Transformation

Nostalgia for the future

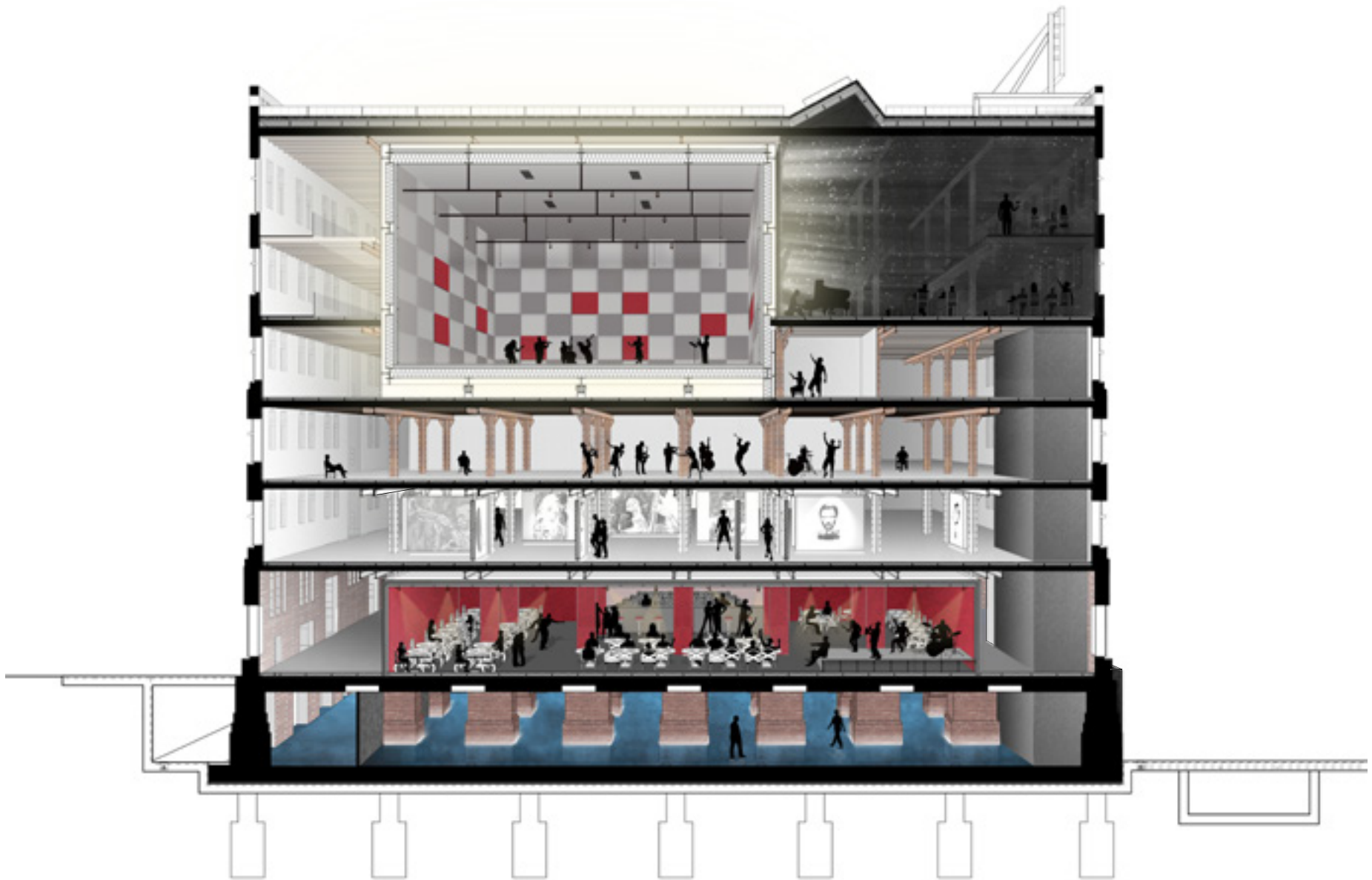


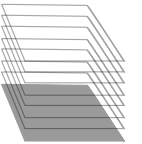
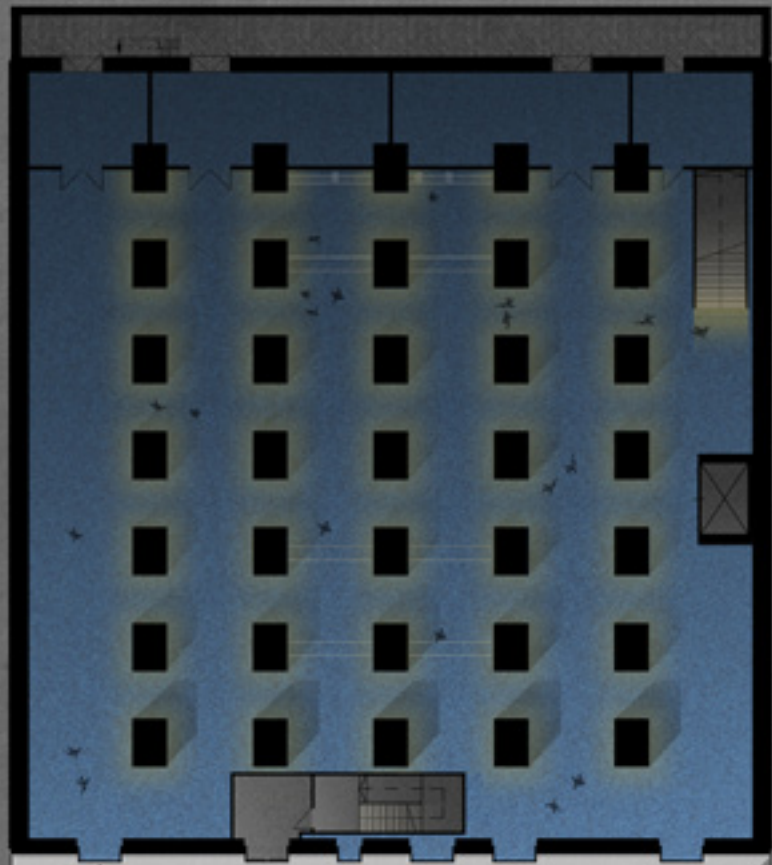
Experience

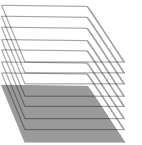
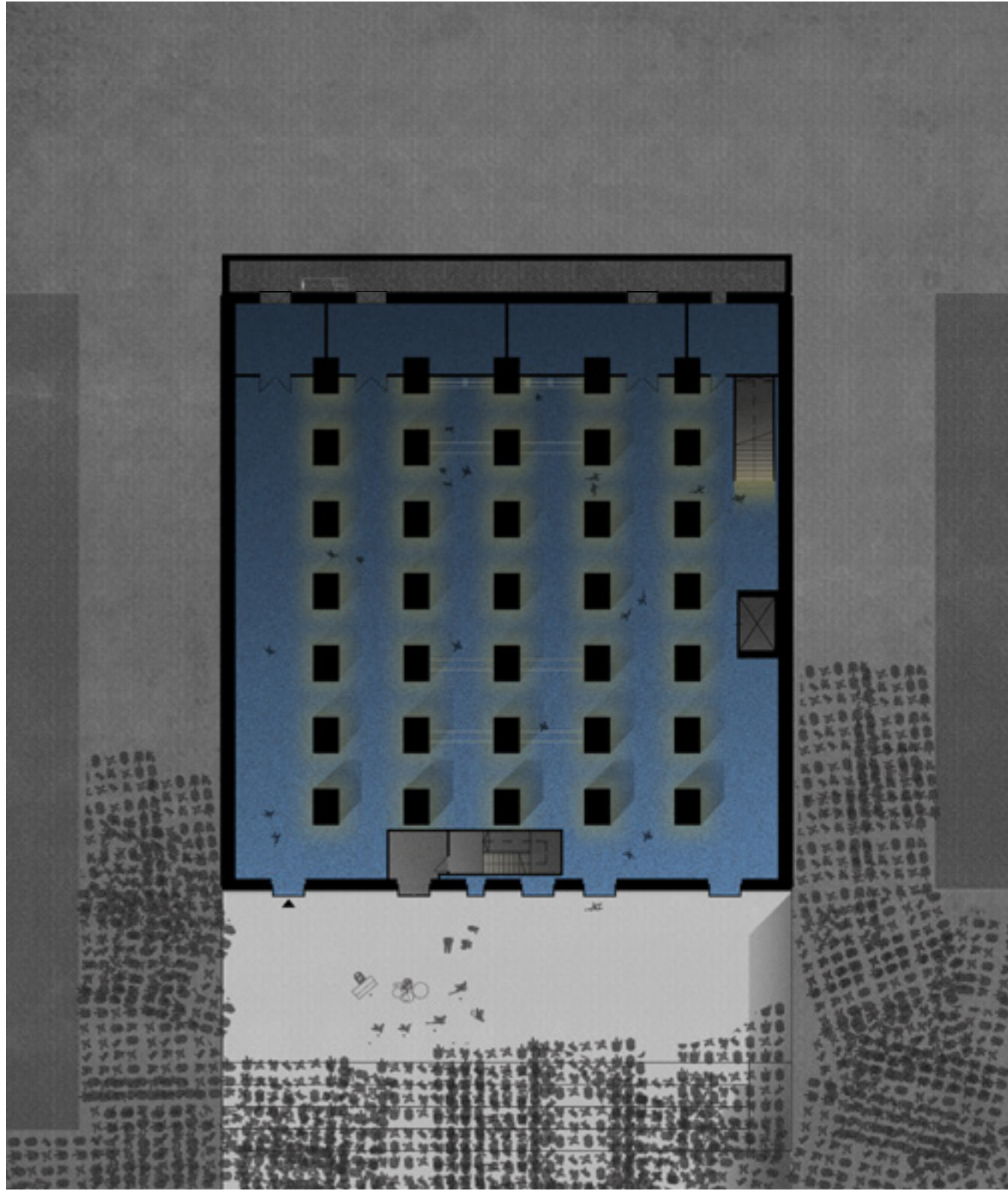


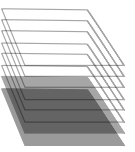
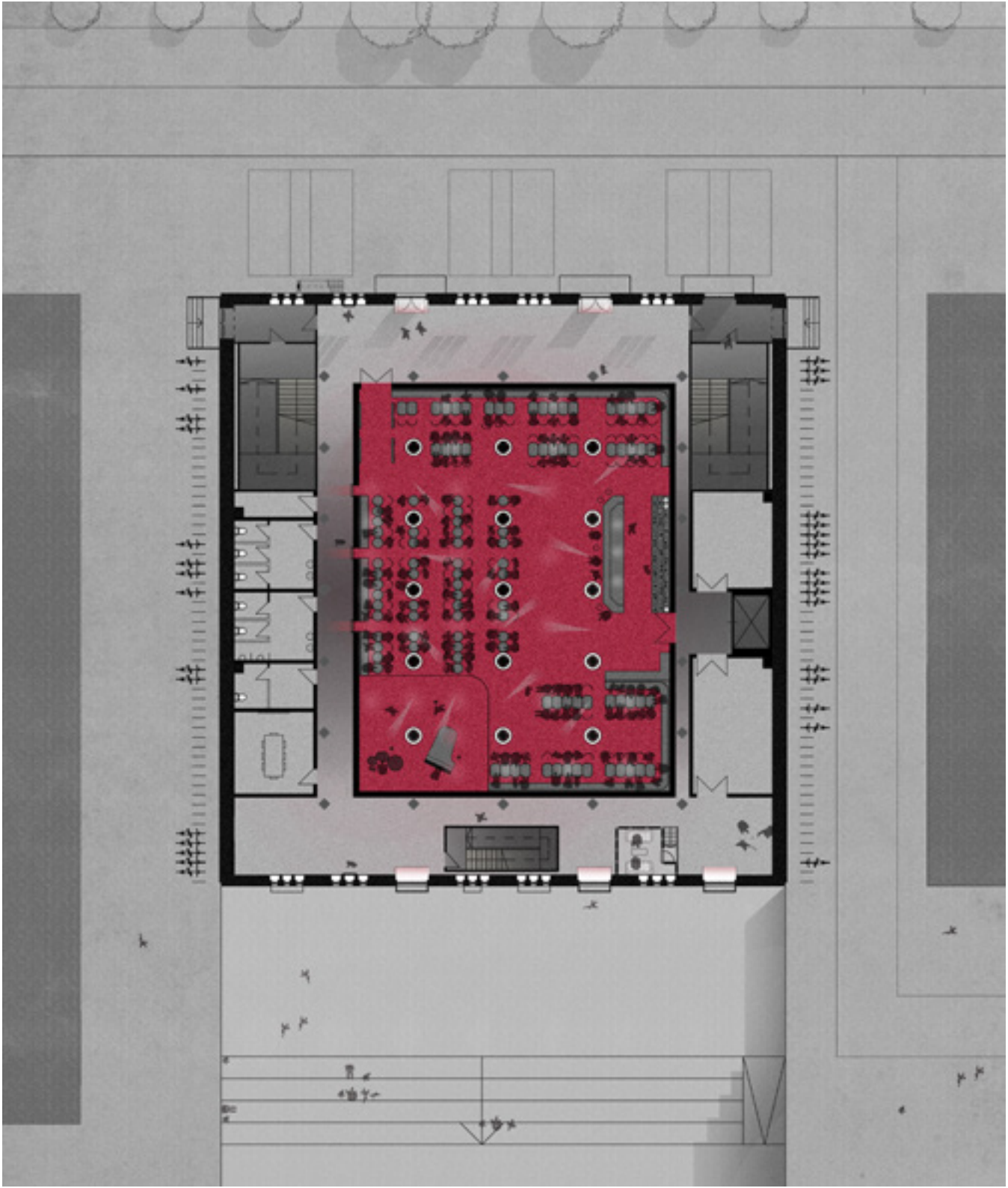


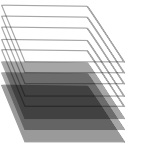
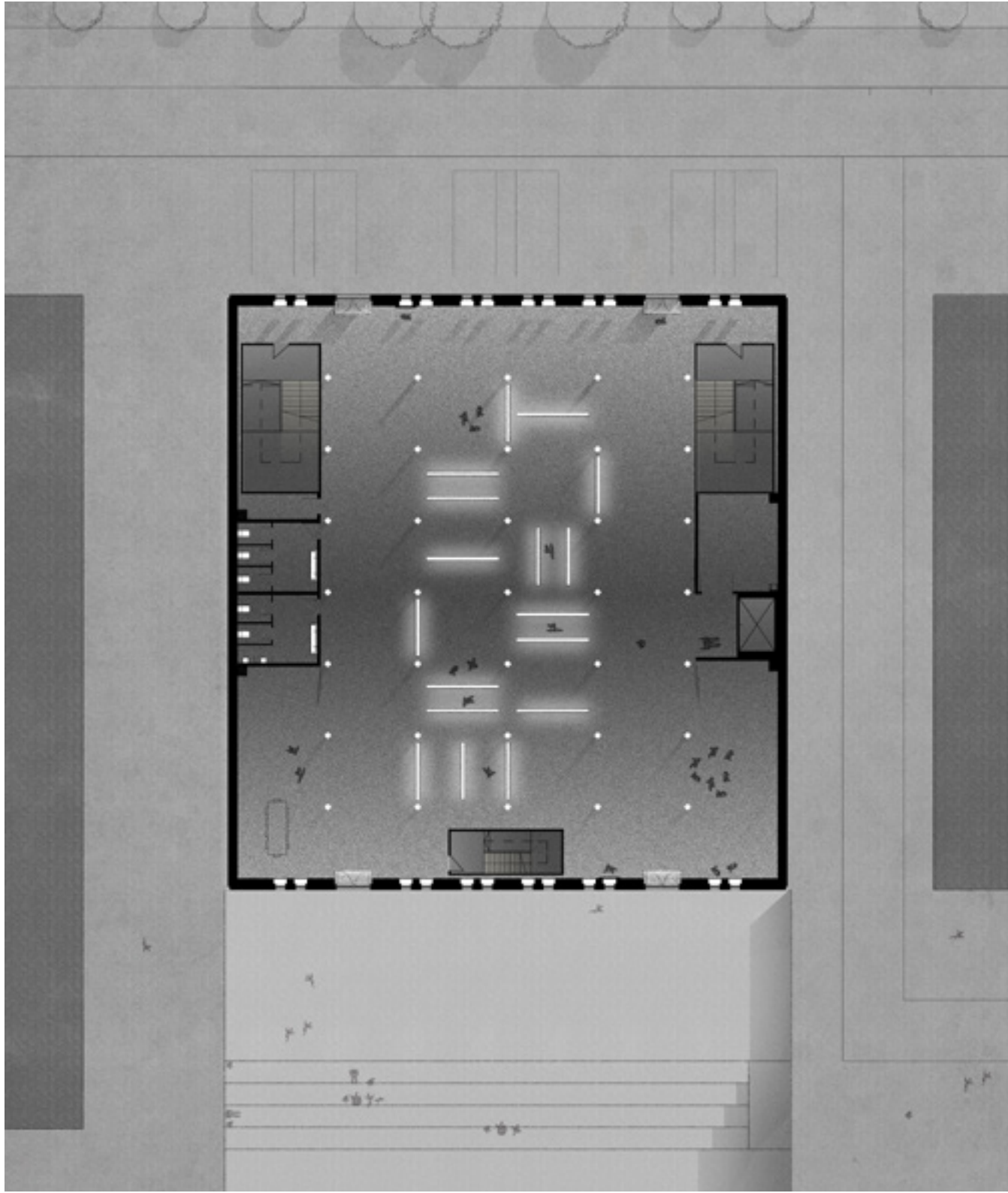
Fire Safety

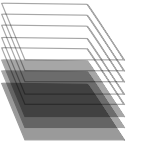
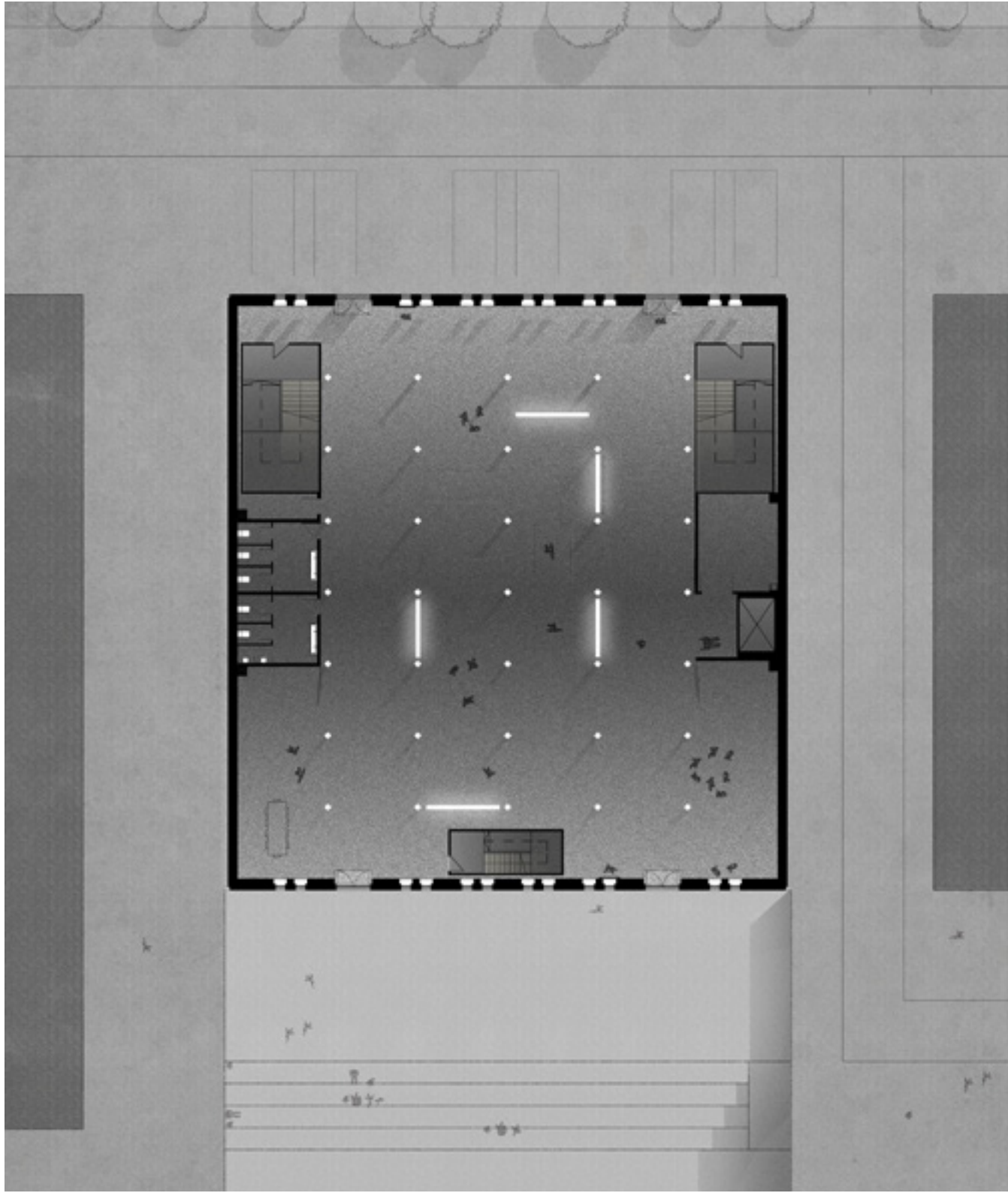


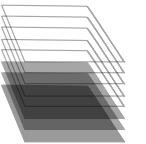
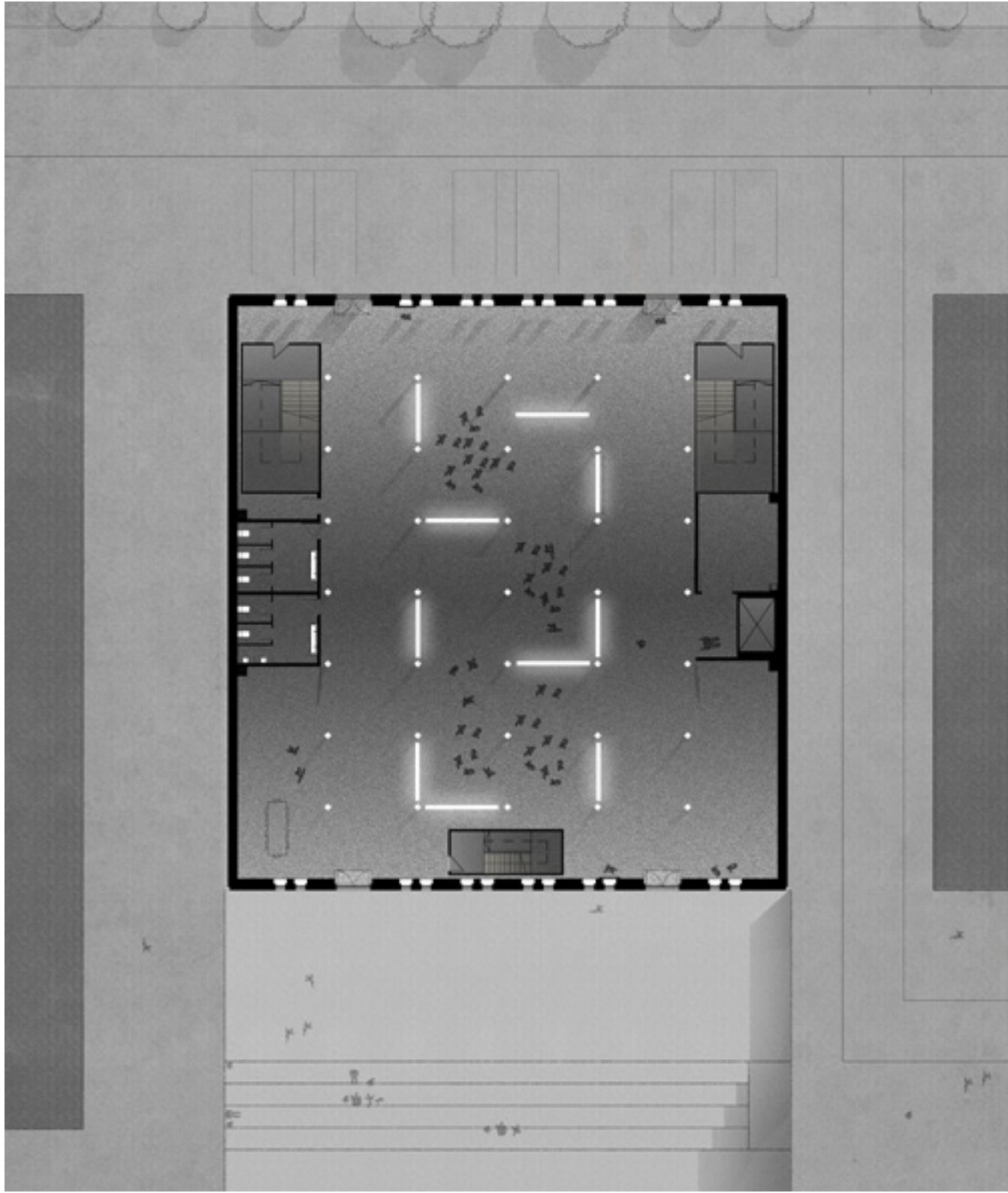


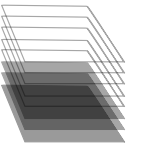
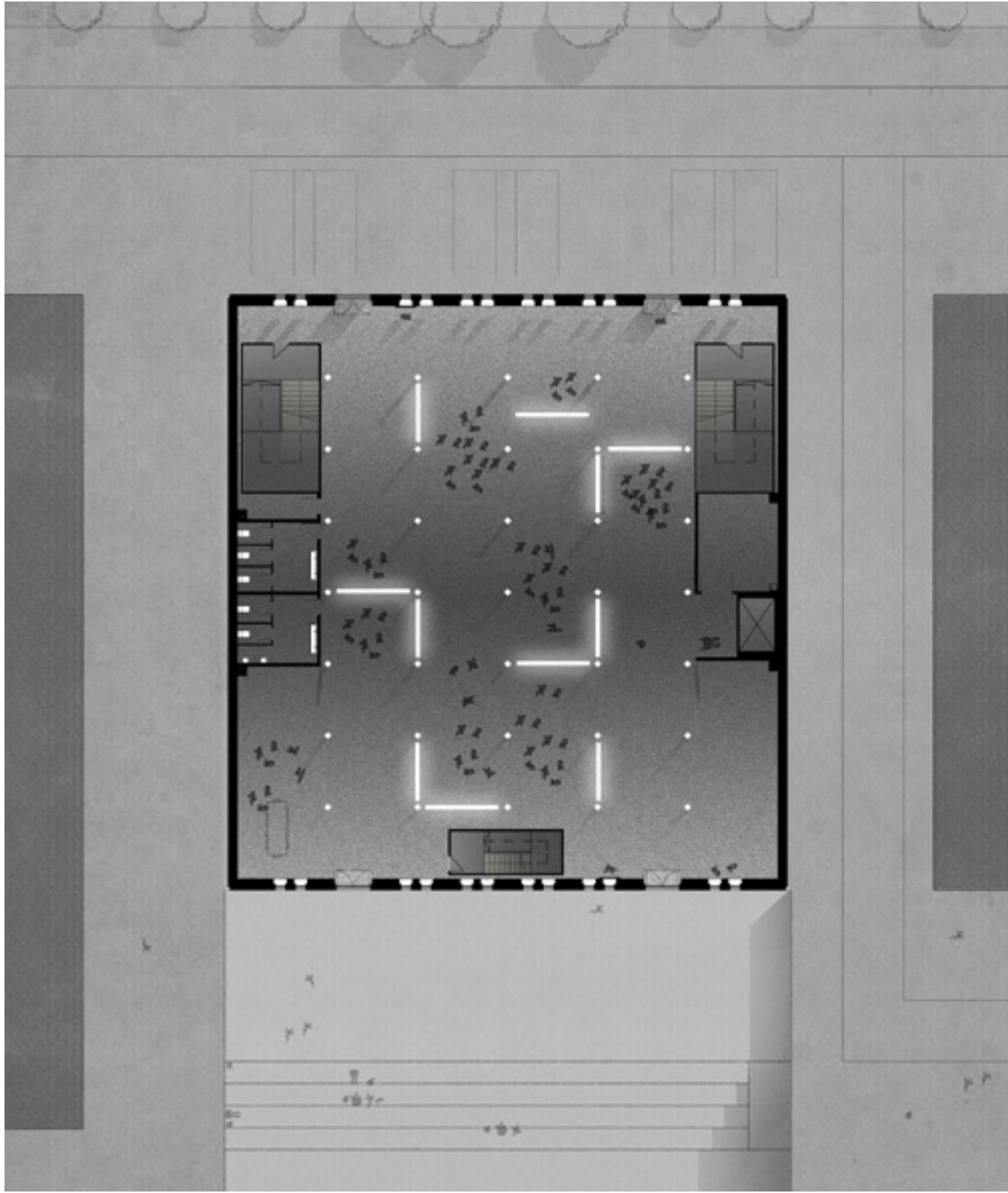


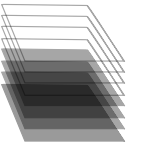
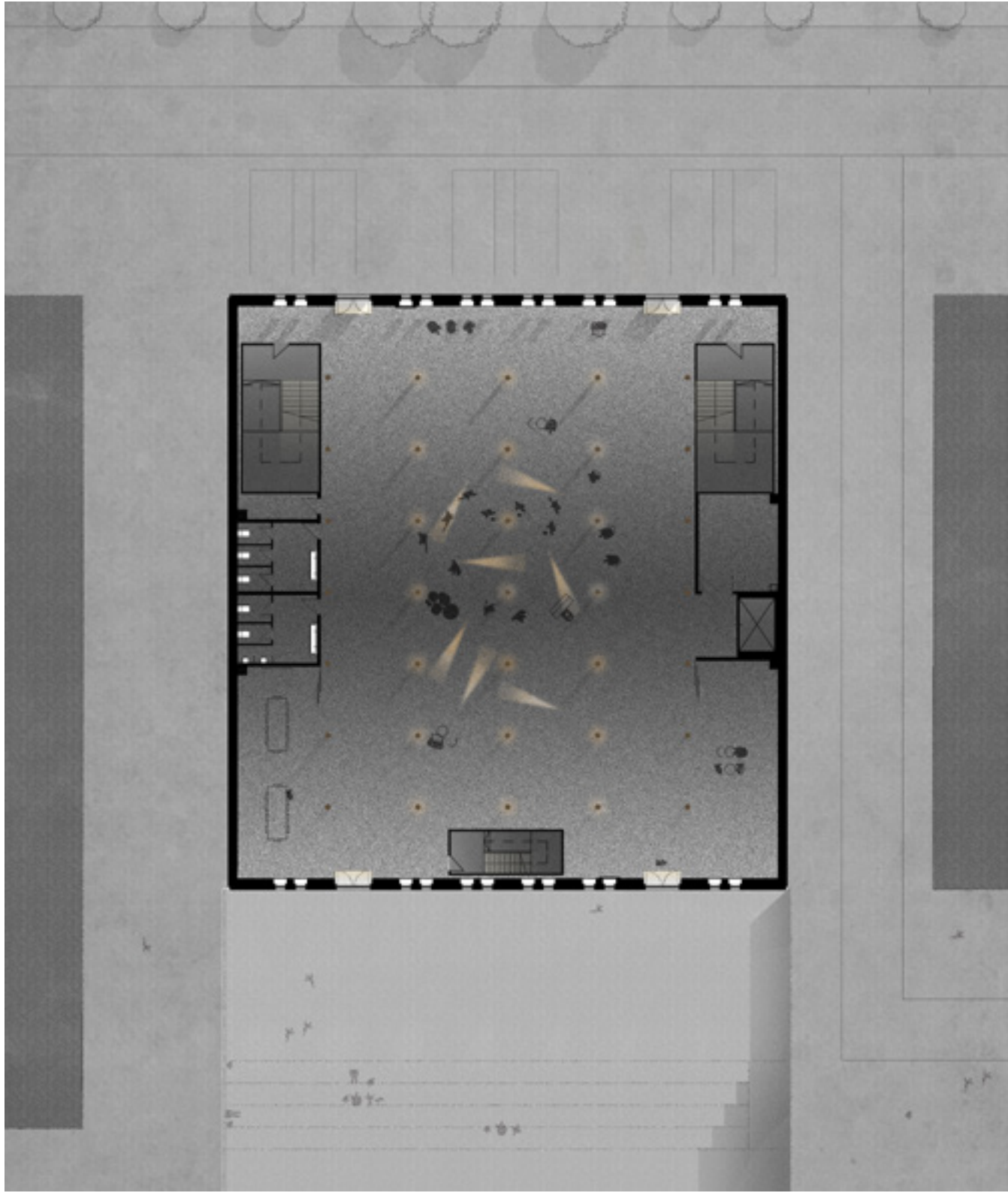


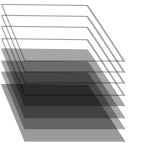
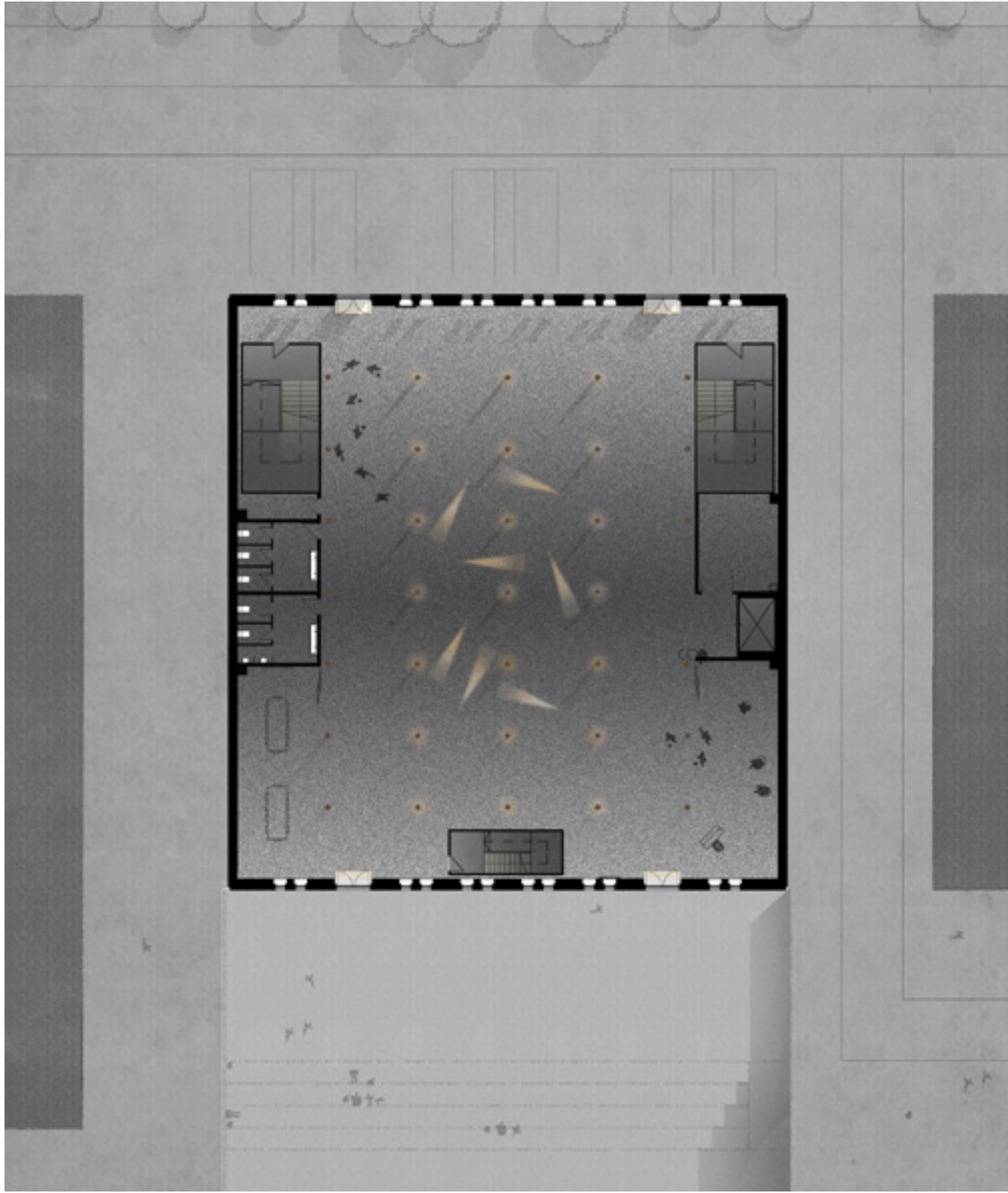


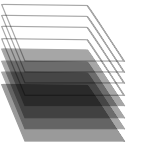
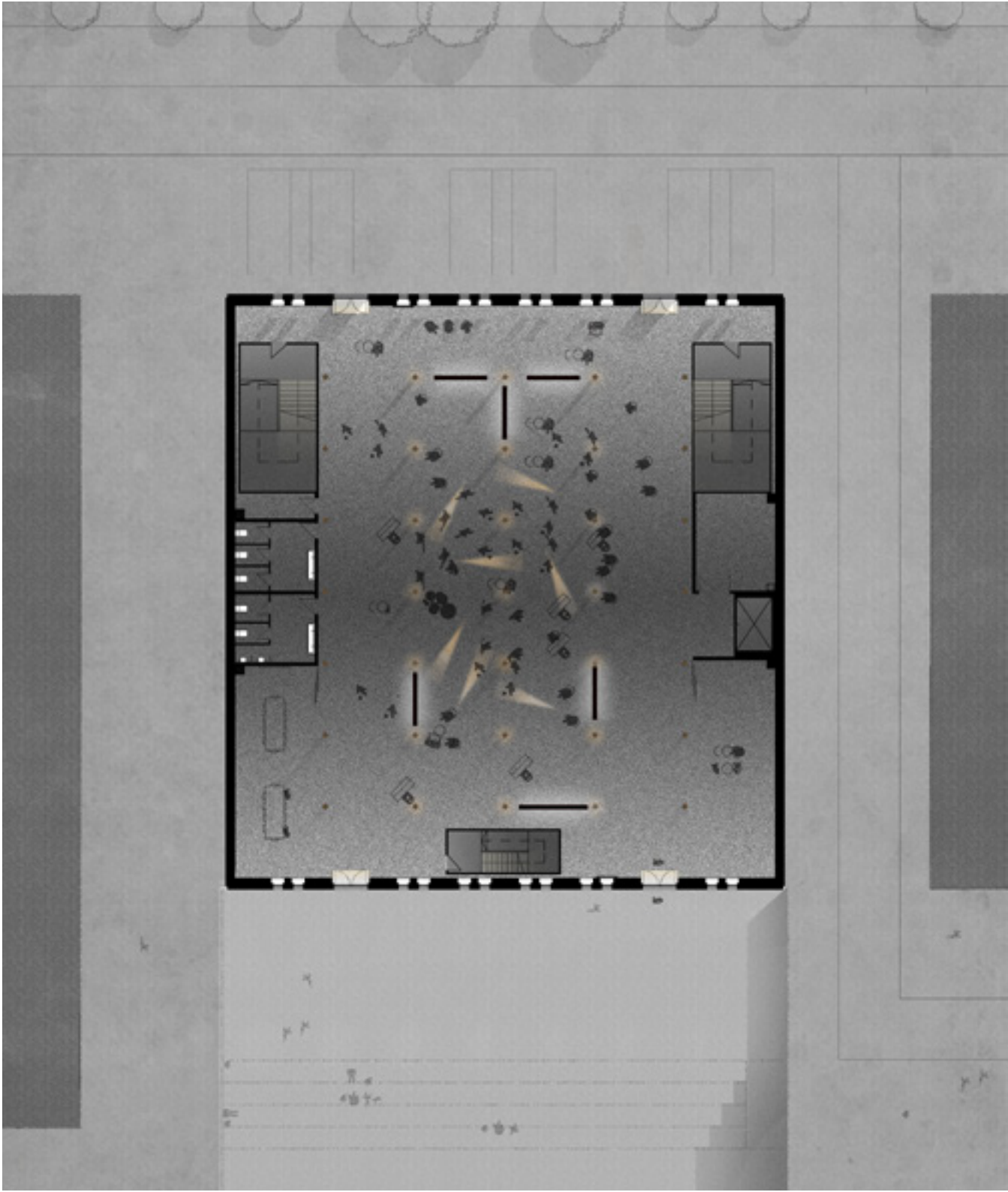


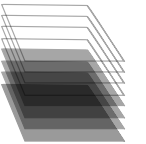
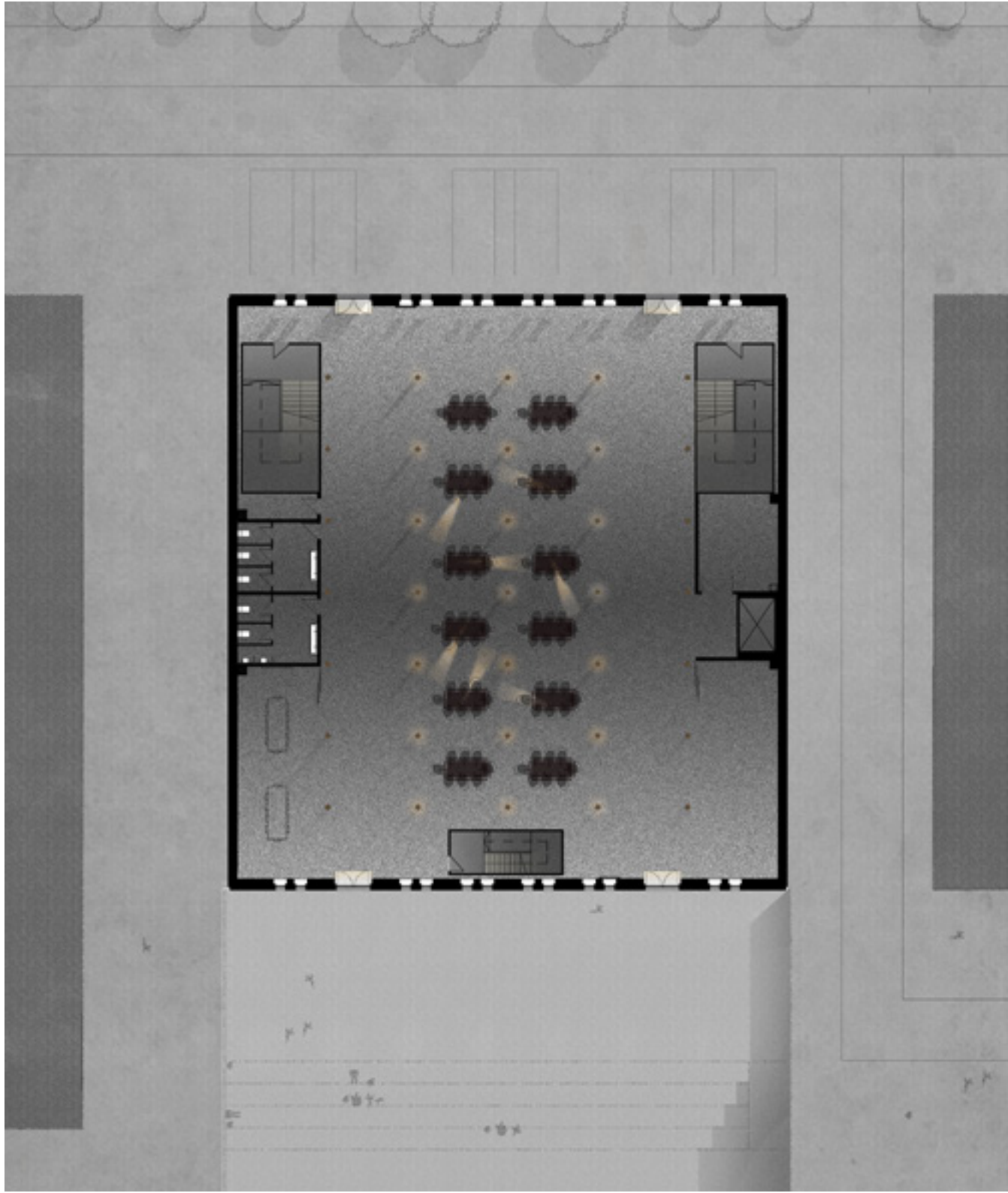


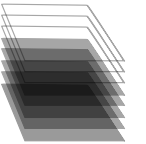
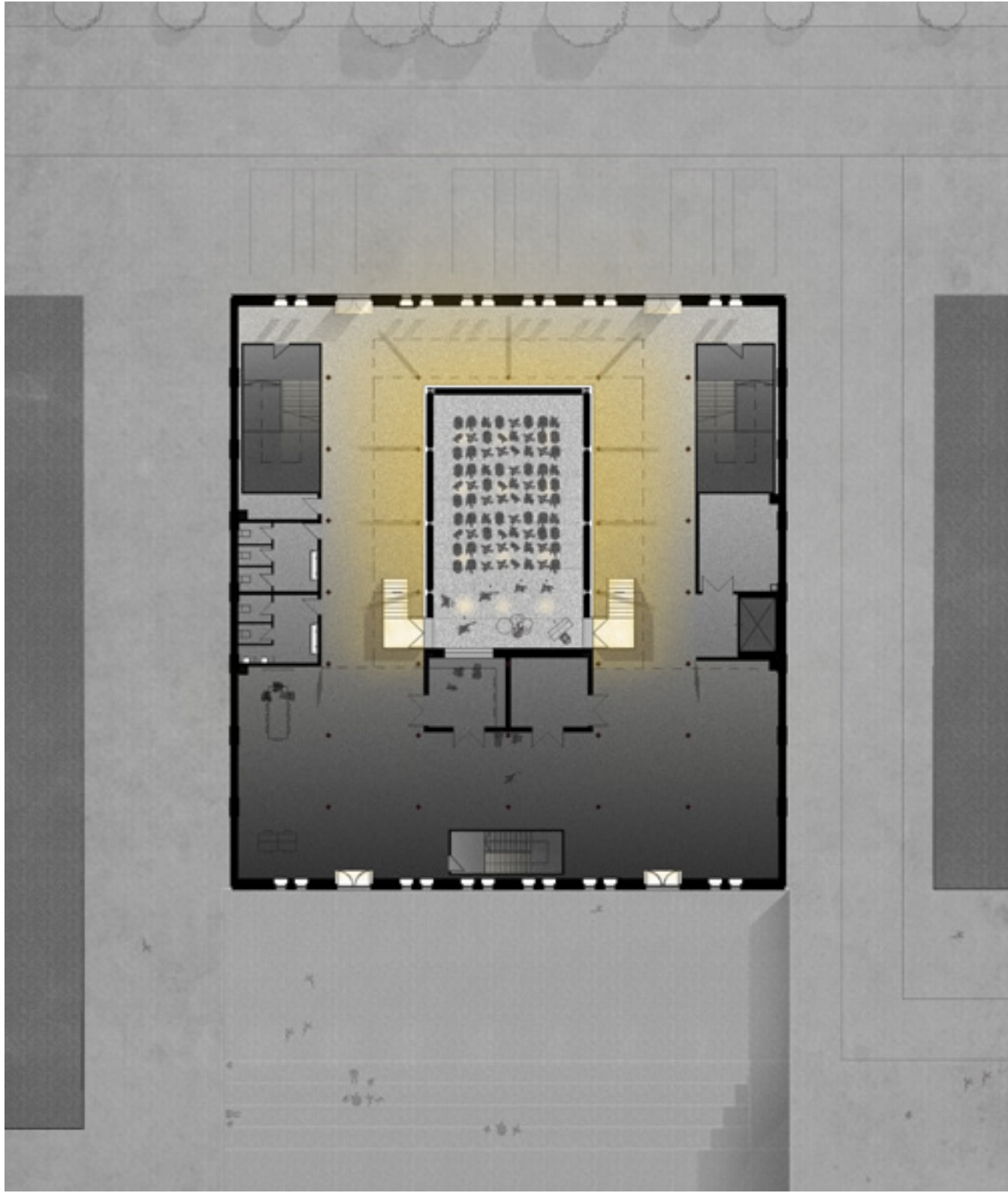


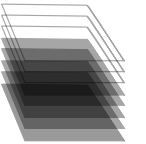
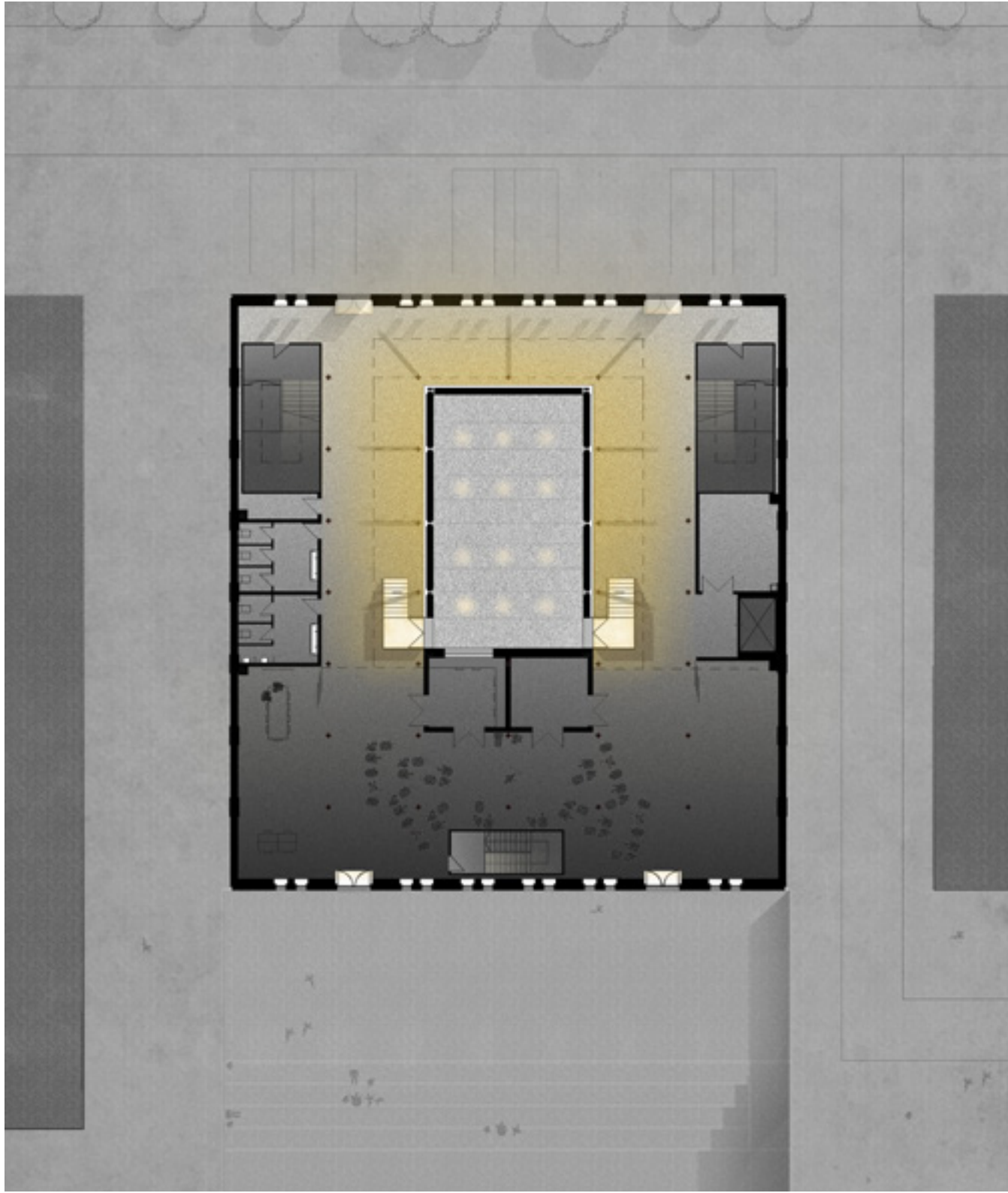


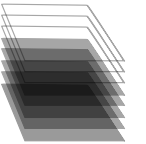
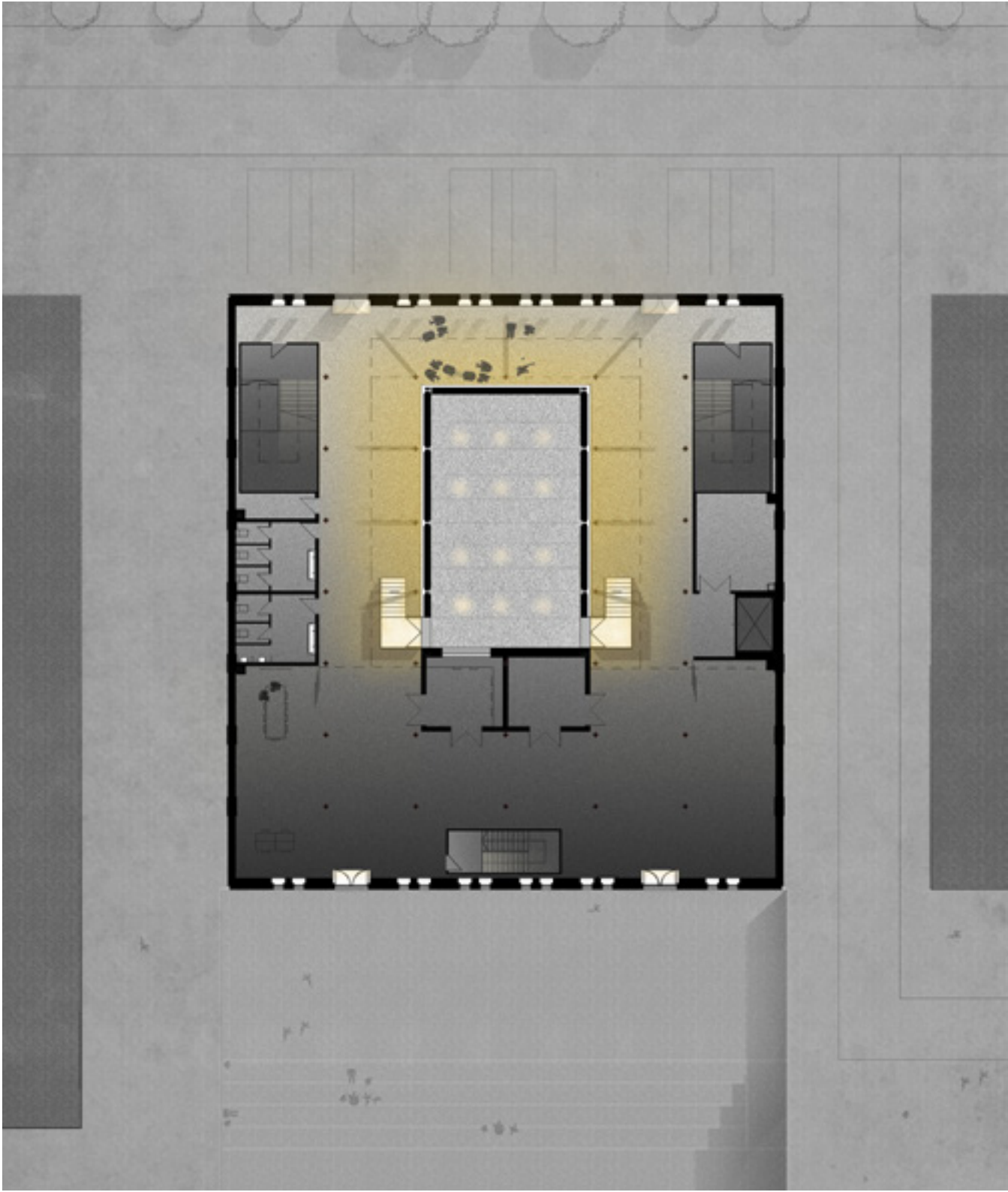


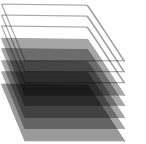
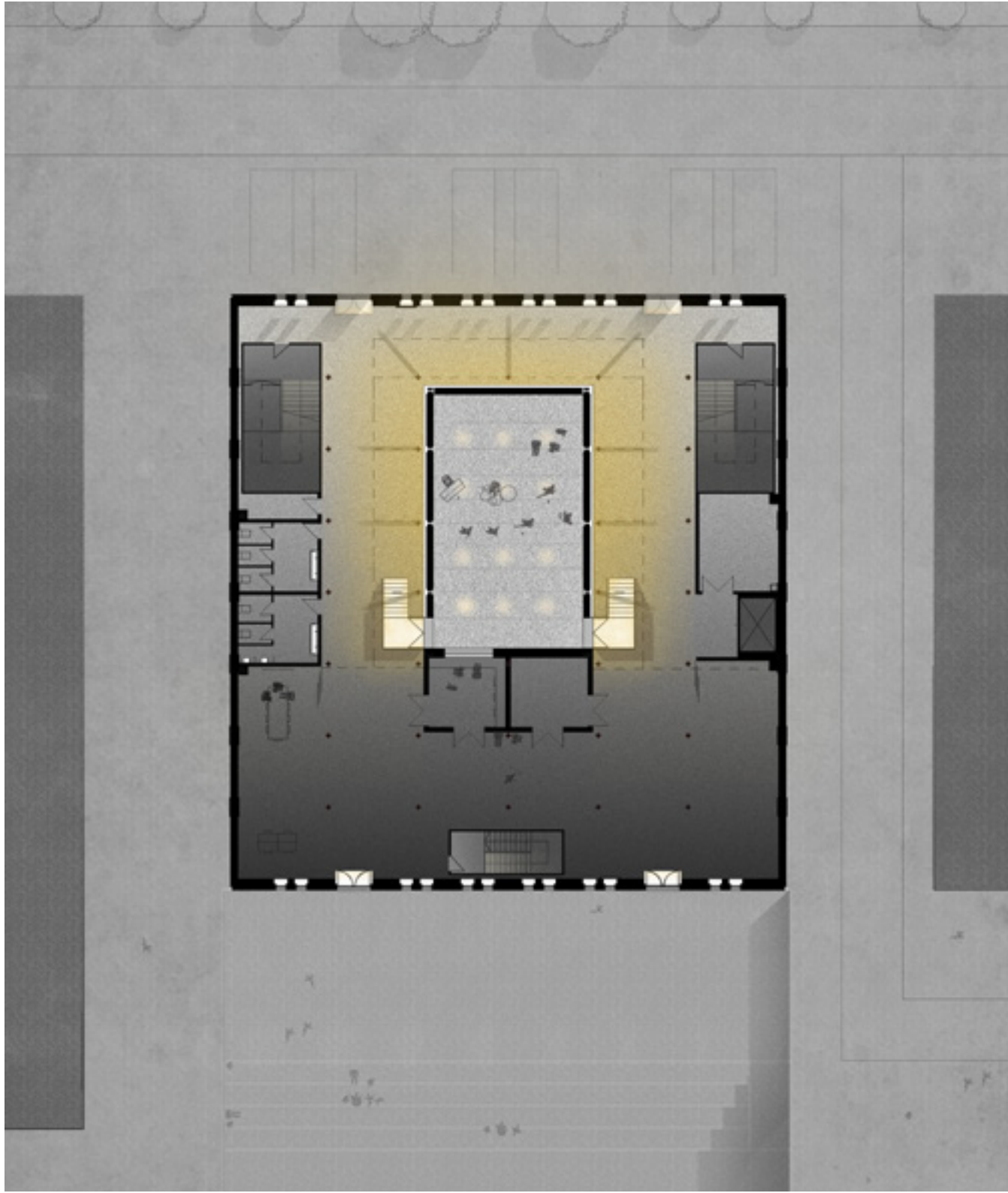


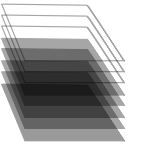
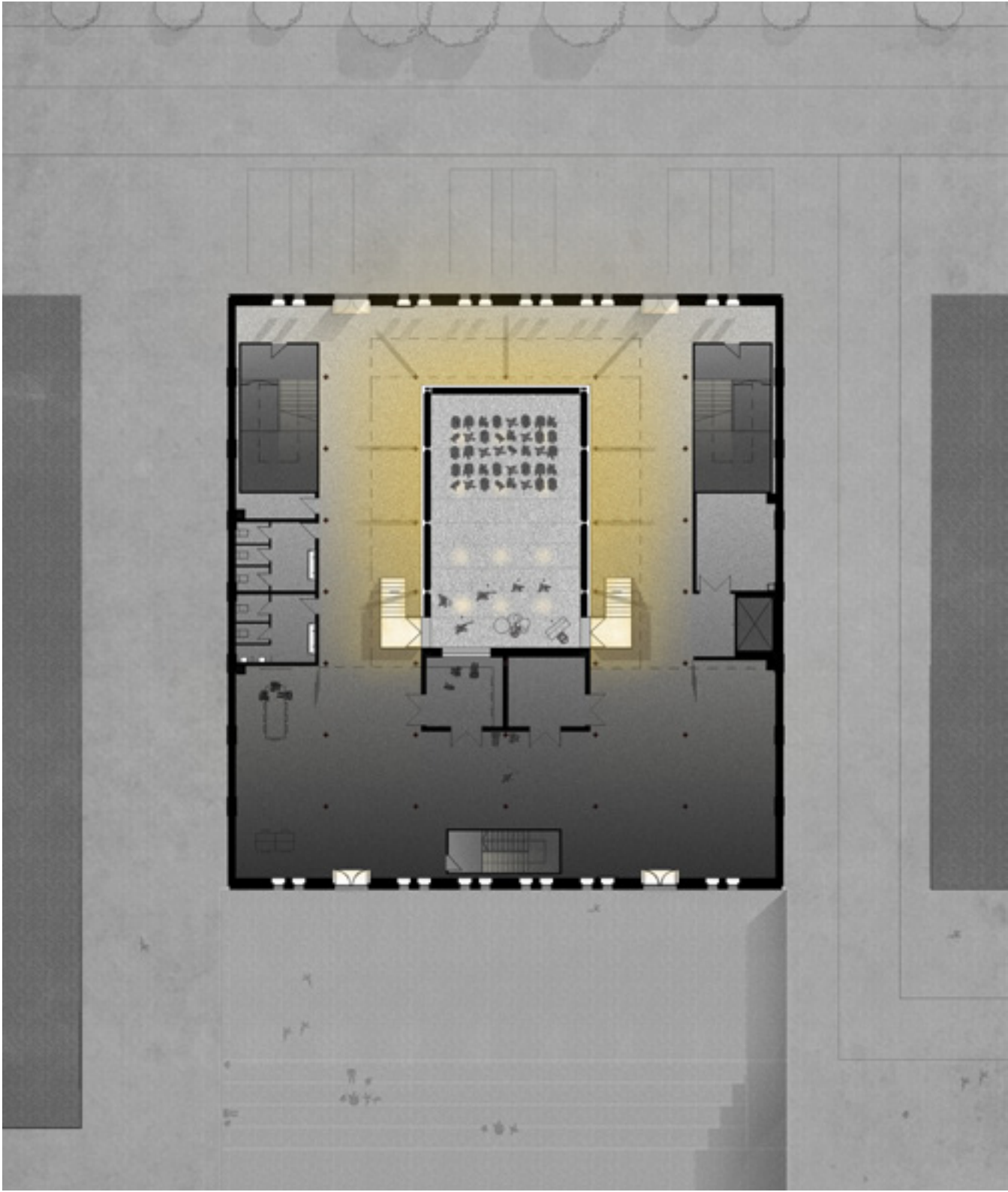


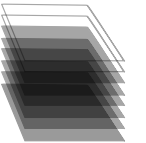
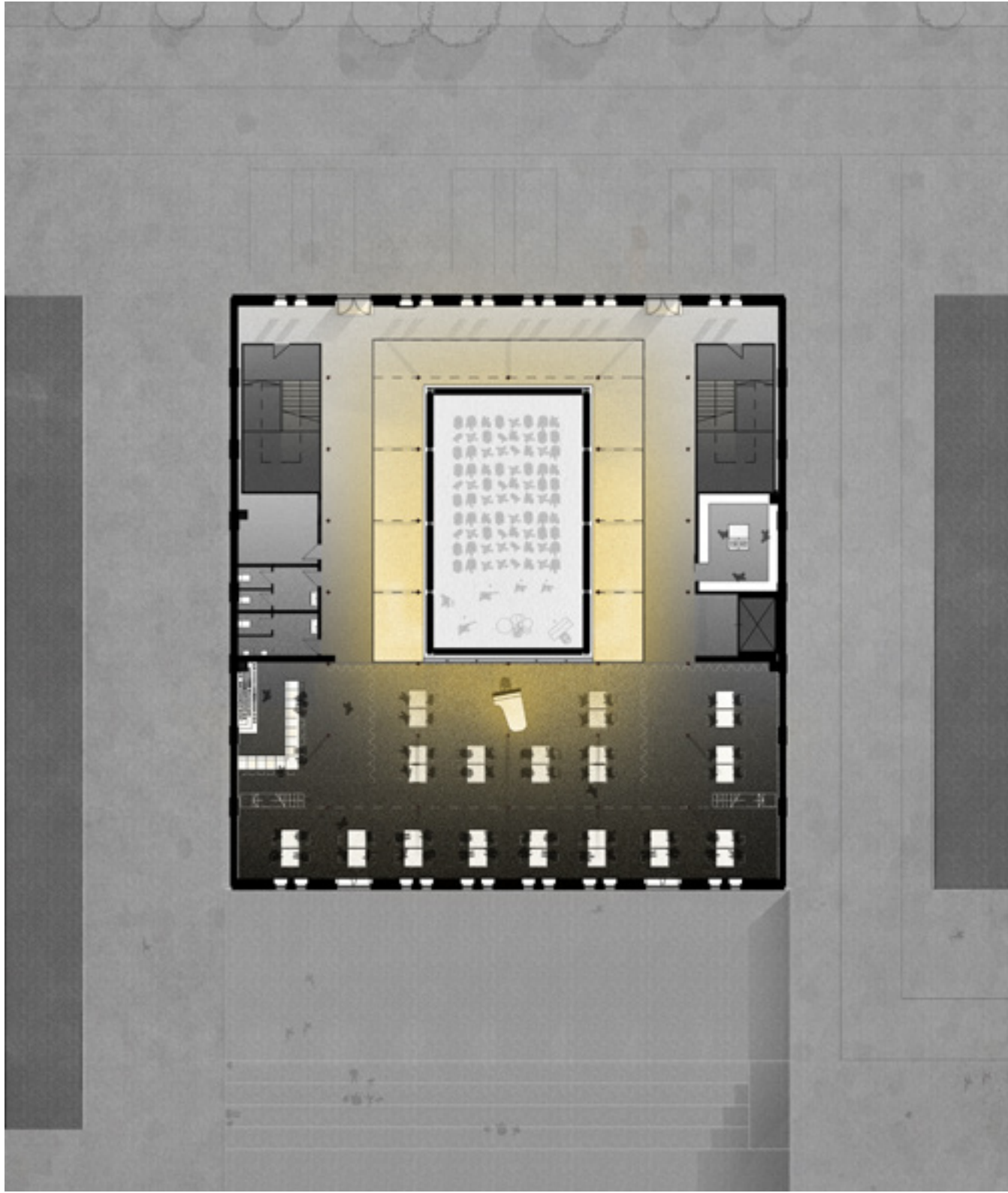


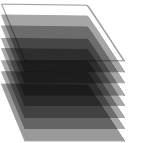
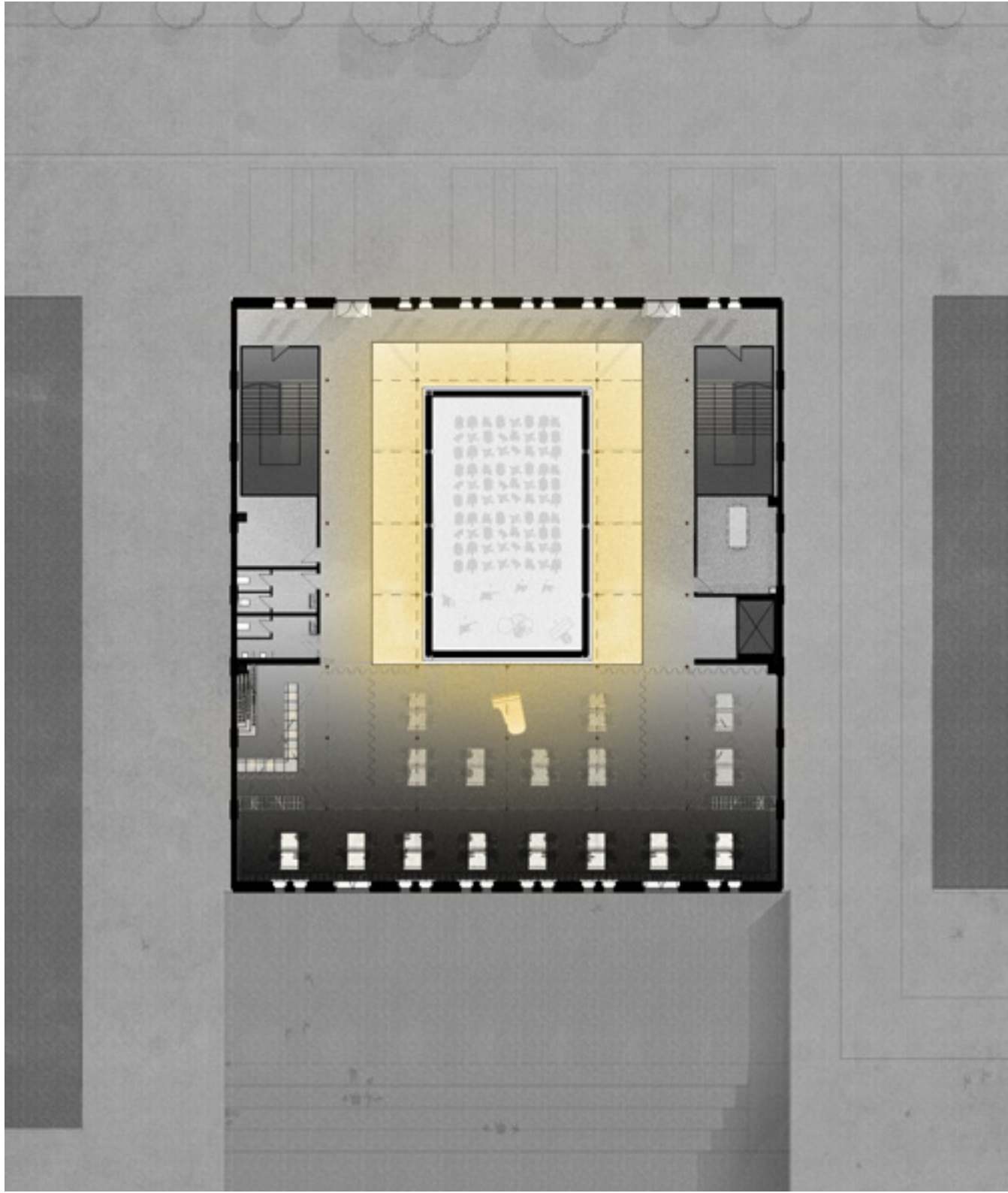


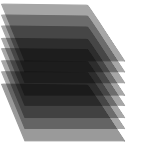
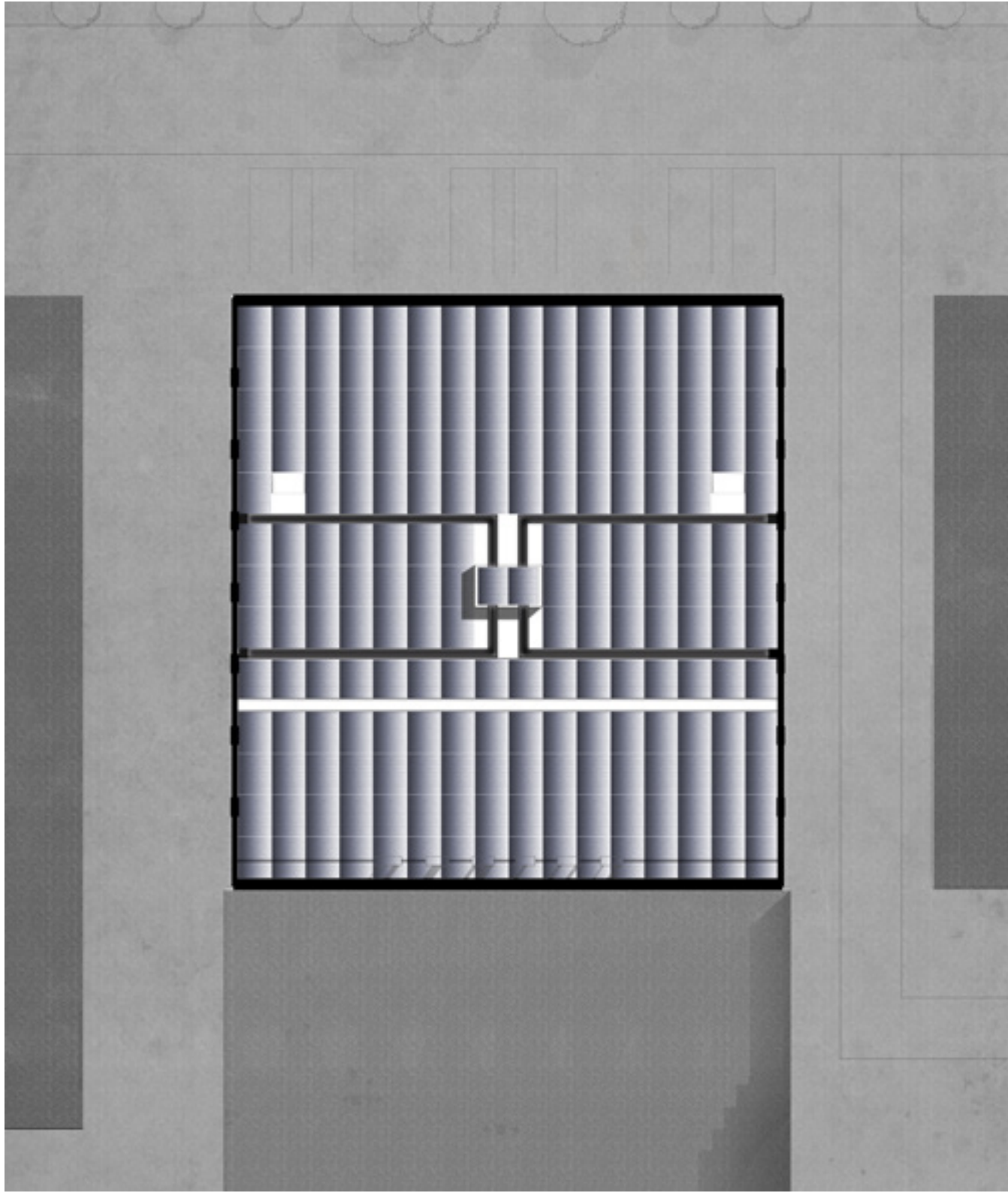


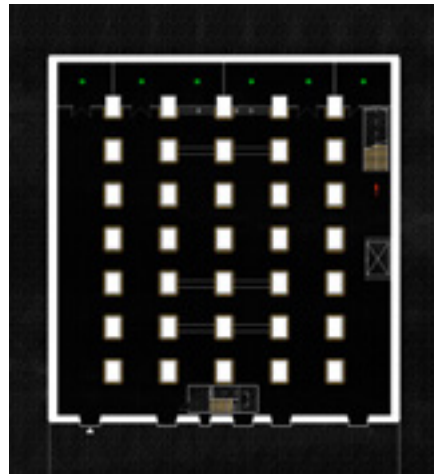
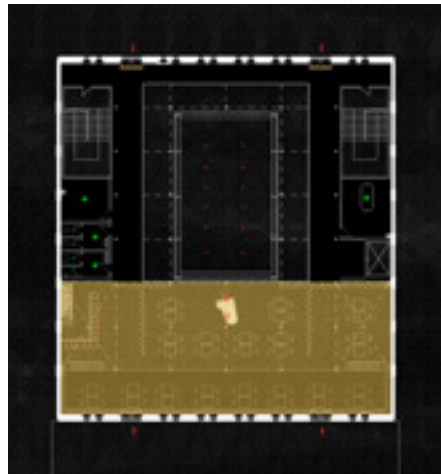
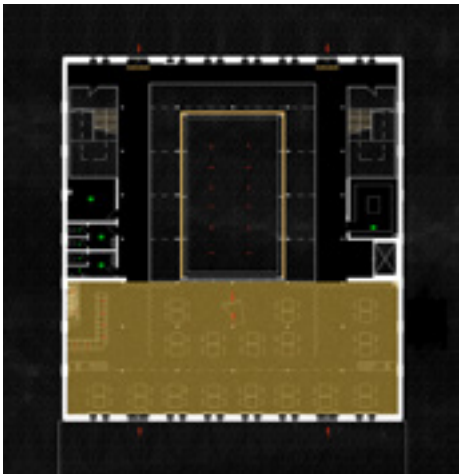
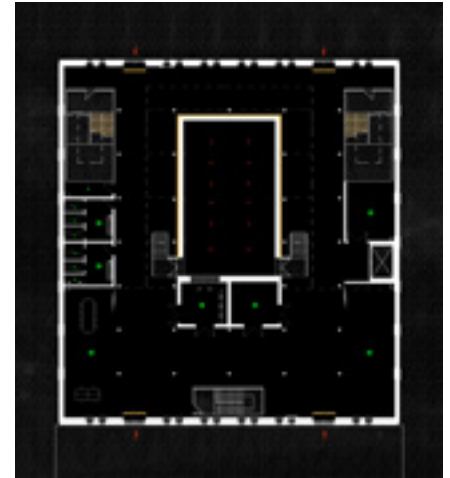
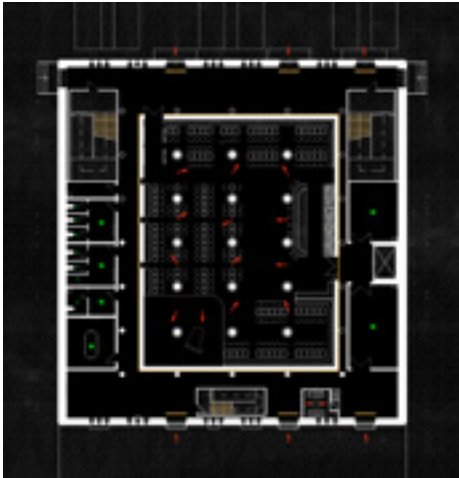




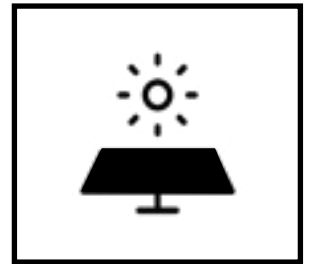








Solar Panels on Roof



Artificial Lighting

Kaplan and Kaplan

, psychologists from the University of Michigan, sought to comprehend the components that drive human's experience in environments. One component came up in their research, namely 'the desire to make sense of one's surround-

ings', based on two primary properties: **coherence** and **complexity**; as we enter a new environment, we automatically and subconsciously seek to find a cognitive match in our memory, as a way to understand and interpret it. Many times we enter a new space and the high familiarity generates a sense of coziness and comfort because we can make sense of our surrounding. In such a coherent scene, the boundaries of walls/ceilings/intersections are easily defined and clear to human brain.

On the other hand, if crucial surfaces or objects are not well lit or unclear, this diminishes the coherence. At other times, we may enter a space that poses an entirely new experience, and we struggle to orientate ourselves and can not make sense of it within the first few seconds. That is because we can not make sense of the lighting and we find it rather unsettling not to

know our way in this complex surrounding. While we humans search for coherence in a space in order to make sense of it, there is also this strong desire for involvement with the environment. If a space is too coherent, we miss out on the

involvement and stimulation that we so much desire because we seek for spaces that are interesting and invite us to explore and engage.

While we crave for certain coherence, there is also the strong desire for complexity and mystery that elicits a sense of wonder.

[Davis, 2013]

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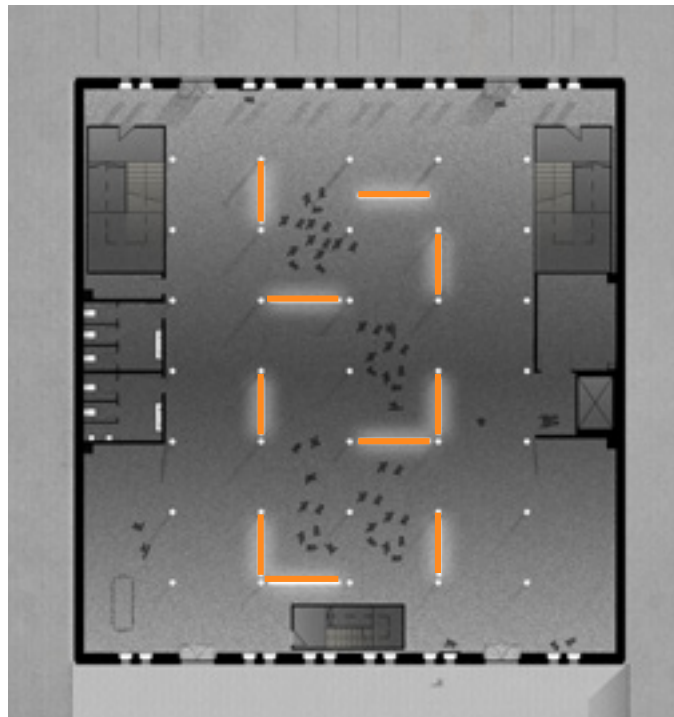
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[Davis, 2013]

-  coherence
-  complexity



1 - Expo Level

Kaplan and Kaplan

, psychologists from the University of Michigan, sought to comprehend the components that drive human's experience in environments. One component came up in their research, namely 'the desire to make sense of one's surround-

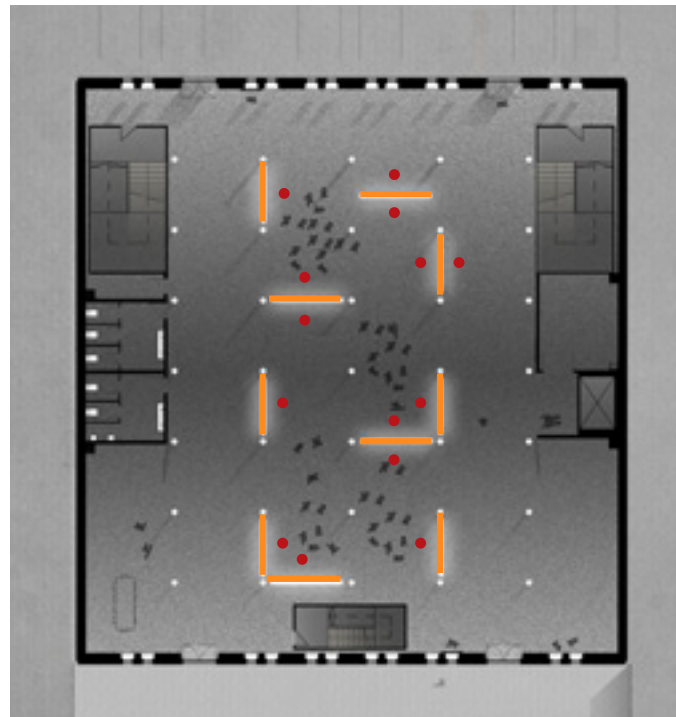
ings', based on two primary properties: **coherence** and **complexity**; as we enter a new environment, we automatically and subconsciously seek to find a cognitive match in our memory, as a way to understand and interpret it. Many times we enter a new space and the high familiarity generates a sense of coziness and comfort because we can make sense of our surrounding. In such a coherent scene, the boundaries of walls/ceilings/intersections are easily defined and clear to human brain.

On the other hand, if crucial surfaces or objects are not well lit or unclear, this diminishes the coherence. At other times, we may enter a space that poses an entirely new experience, and we struggle to orientate ourselves and can not make sense of it within the first few seconds. That is because we can not make sense of the lighting and we find it rather unsettling not to

know our way in this complex surrounding. While we humans search for coherence in a space in order to make sense of it, there is also this strong desire for involvement with the environment. If a space is too coherent, we miss out on the involvement and stimulation that we so much desire because we seek for spaces that are interesting and invite us to explore and engage. While we crave for certain coherence, there is also the strong desire for complexity and mystery that elicits a sense of wonder.

[Davis, 2013]

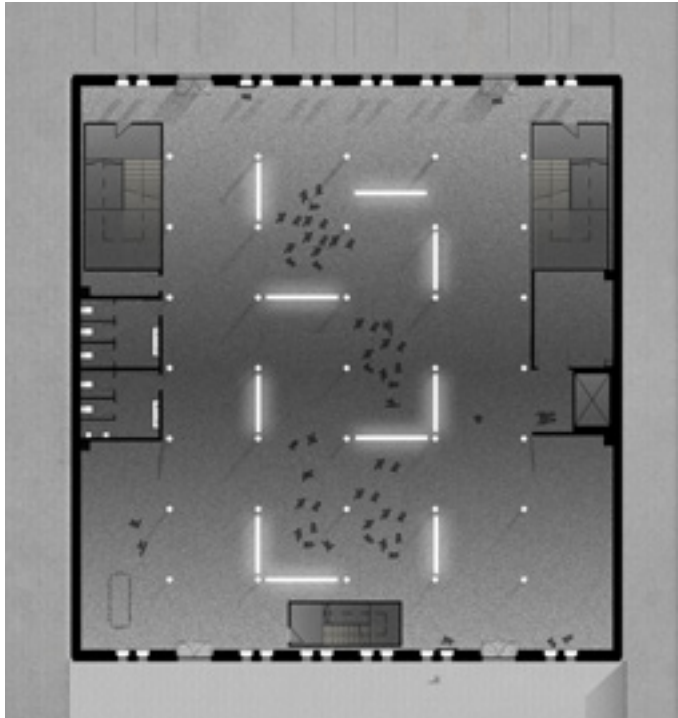
-  coherence
-  complexity



1 - Expo Level







Natural Light

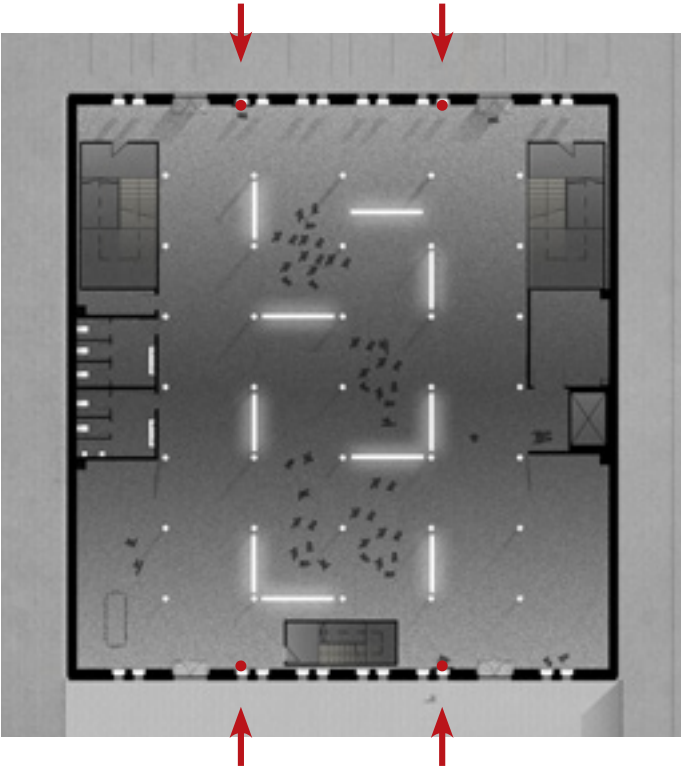


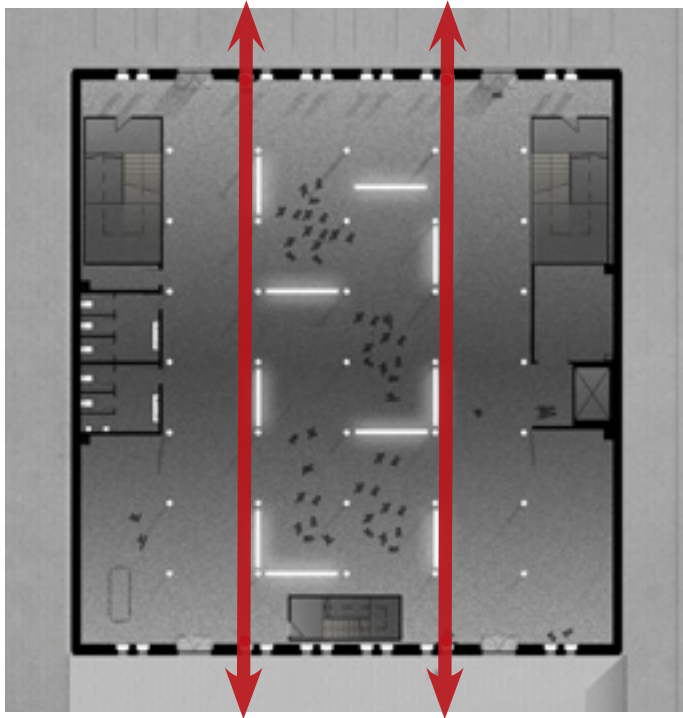


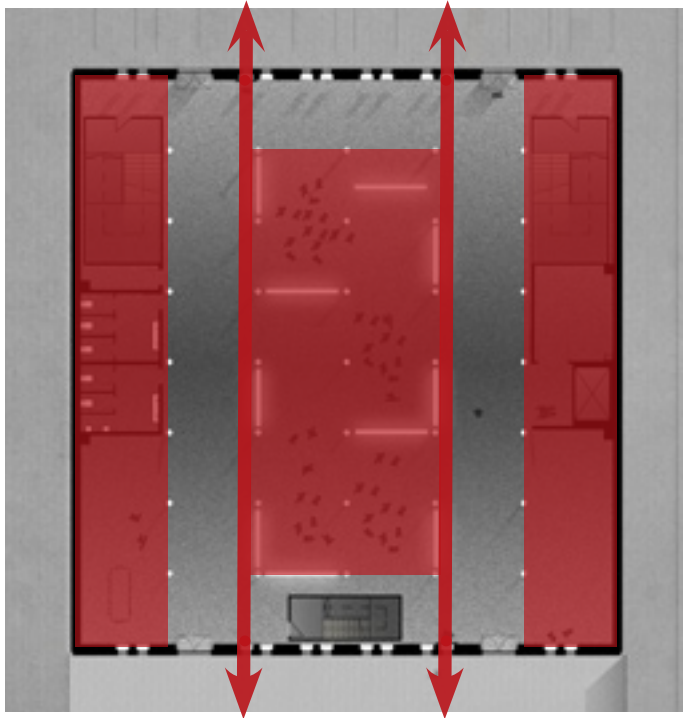


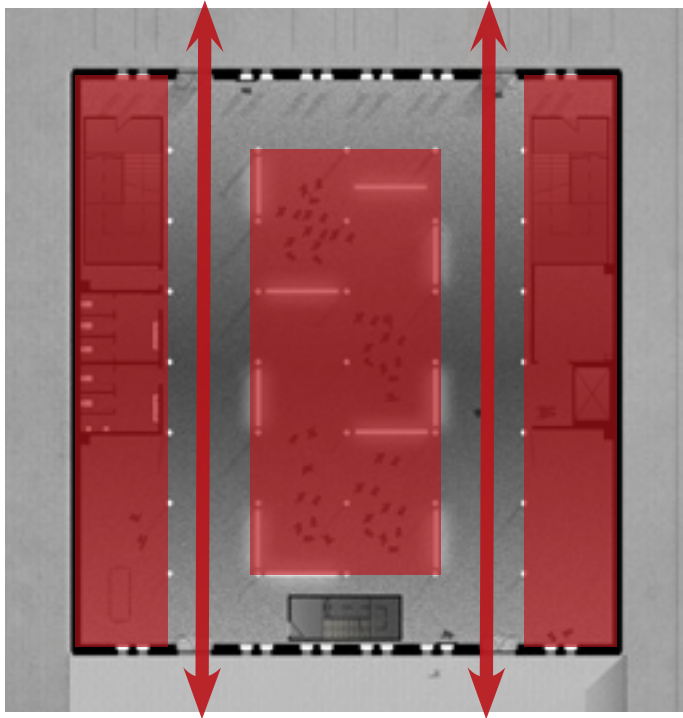






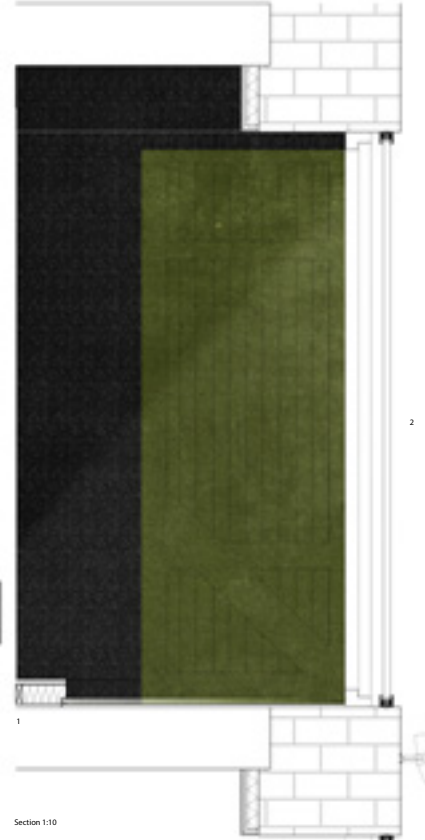




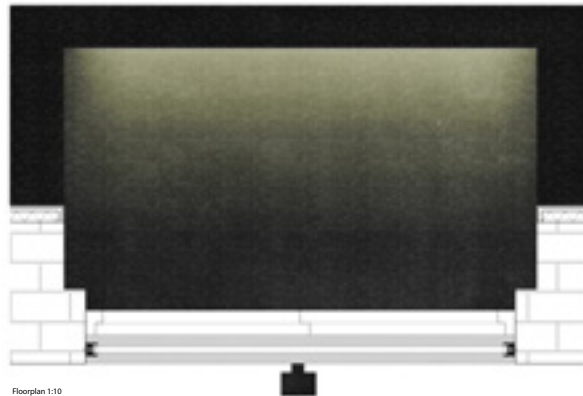




Elevation 1:10



Section 1:10



Floorplan 1:10

Vertical Doors 1:10

1 - Floor Construction

- 350 mm Existing Wooden Beam
- 20 mm Existing Wooden Planking
- LED Neon Flex Strip Lighting
- 80 mm Rock Wool in Wood Studs
- 5 mm Acoustic Barrier Sheet
- 25 mm Cement Board, grey

2 - Facade Construction

- New Door Frame, Aluminium brushed
- Existing Door Frame
- 60 mm Thermal Insulation
- 20 mm Plasterboard
- 10 mm Plaster White, rough



Marketing



New crown commemorates the old former one.





Existing window frames:
Repair, repaint and consolidation
on the existing green frames that
ultimately create a friendly and
cheerful play in the facade.

Marketing



Marketing

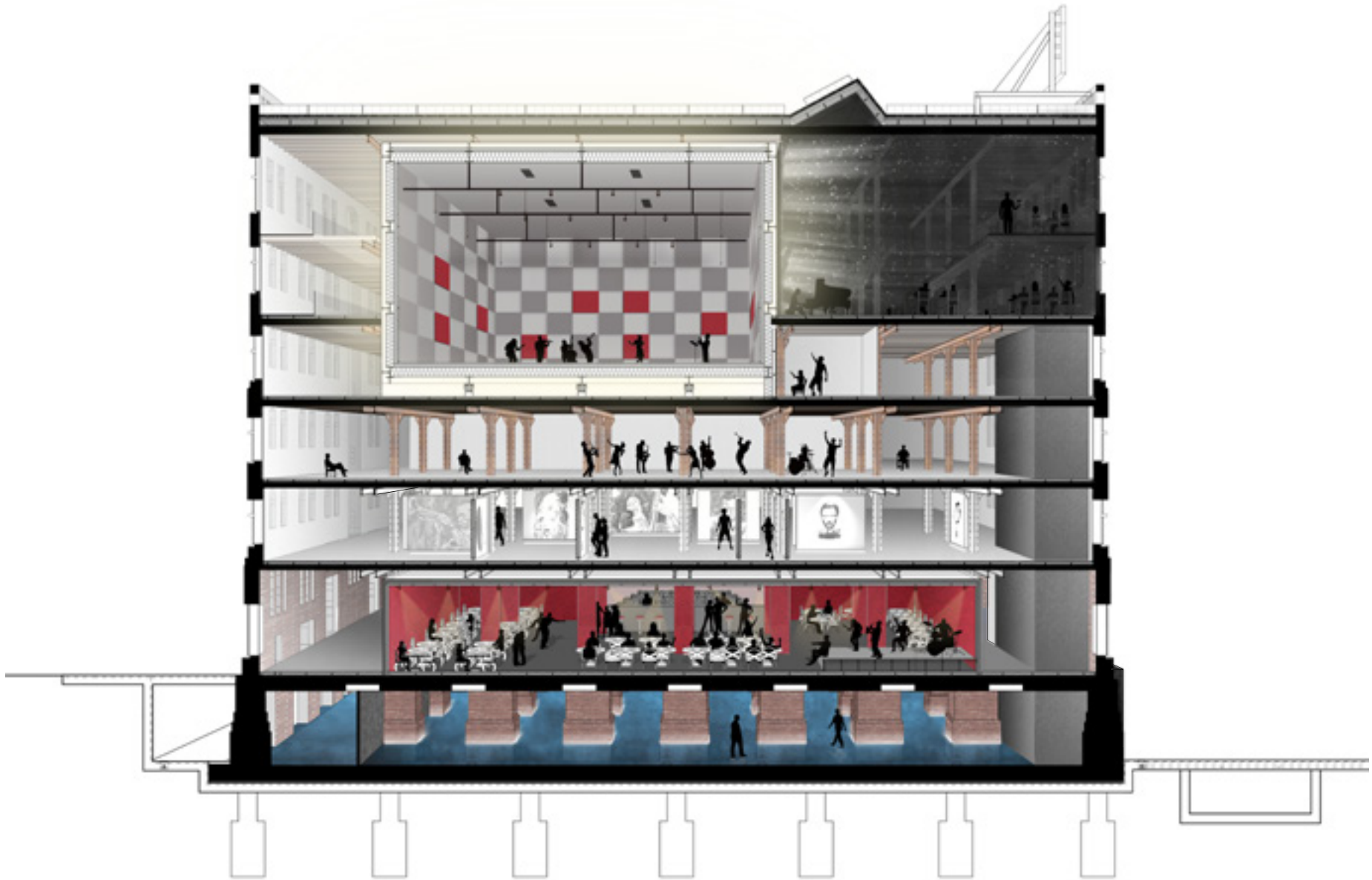


Existing rough facade patina (algae, pollution soiling etc) serves as a protection layer.



Advertising panels in plinth:
Updates and Events

Marketing



Water



Facade Fragment 1:10, Portals

- 2 - Facade Construction
- 5 mm External Aluminum Sheeting, Brushed
 - 120 mm Aluminum Window Frame Construction
 - Low-Transparency, Double-Glazed Tempered Glass
 - U-profiles attached to Existing Brick Wall
 - Strengthened Glass Railing on Brushed Aluminum Angle
 - Existing Door
 - Internal Exposed Brick Wall

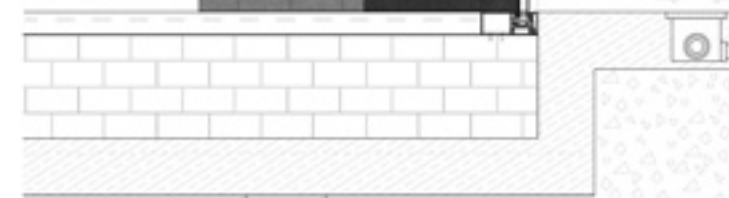
1,2



Facade Fragment 1:10, Portals

- 1.1 - Basement and Ground
- 120 mm Reinforced Polished Concrete, blue
 - Vapour Barrier
 - Existing Brick Foundation
 - 300 mm New Concrete Foundation
 - Concrete Piles
- 1.2 - Floor Construction Level 0
- 150 mm Reinforced Polished Concrete, grey
 - 30 mm Rockwool Insulation
 - Vapour Barrier
 - 650 mm Existing Hennebique Concrete Slab

1,1

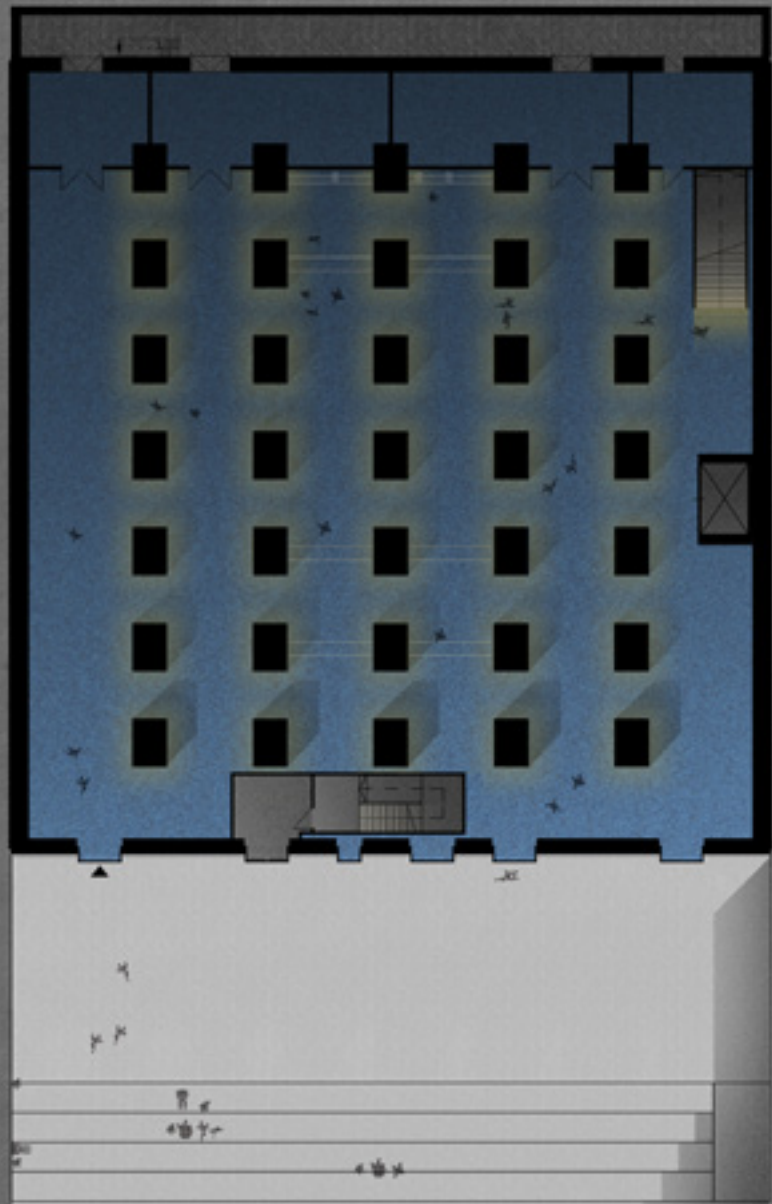


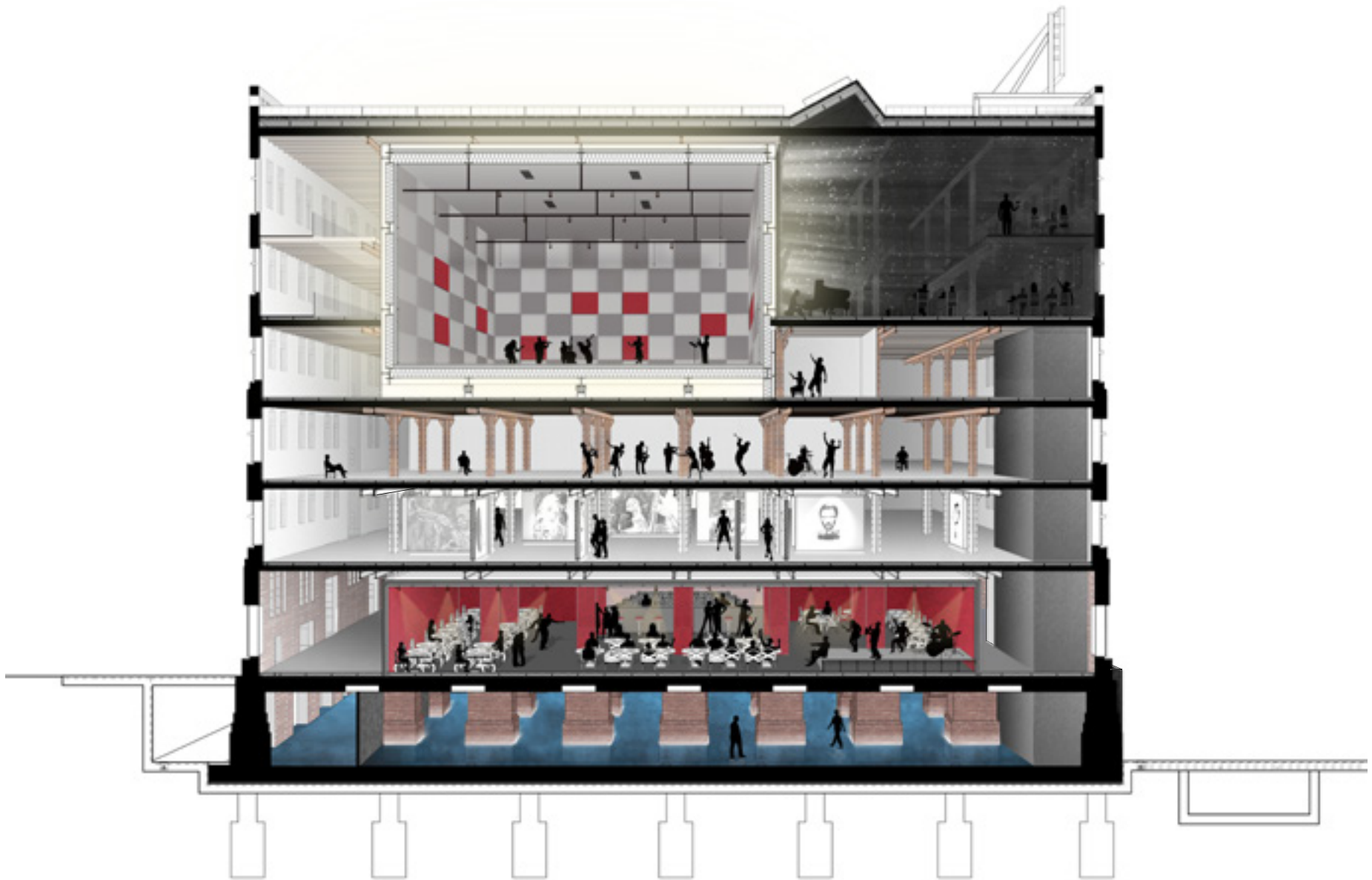
Section 1:10



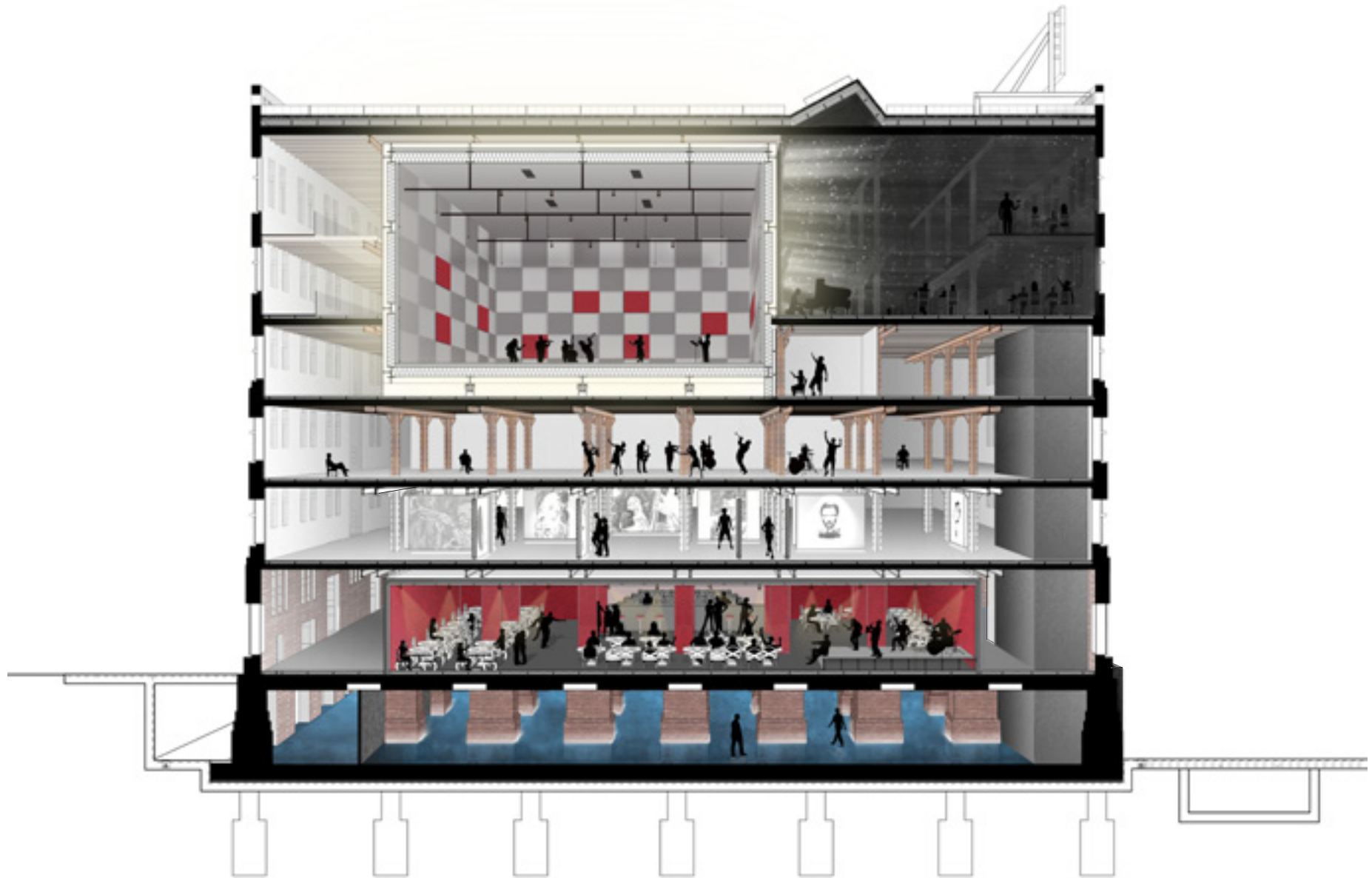
Elevation 1:10

Floorplan 1:10

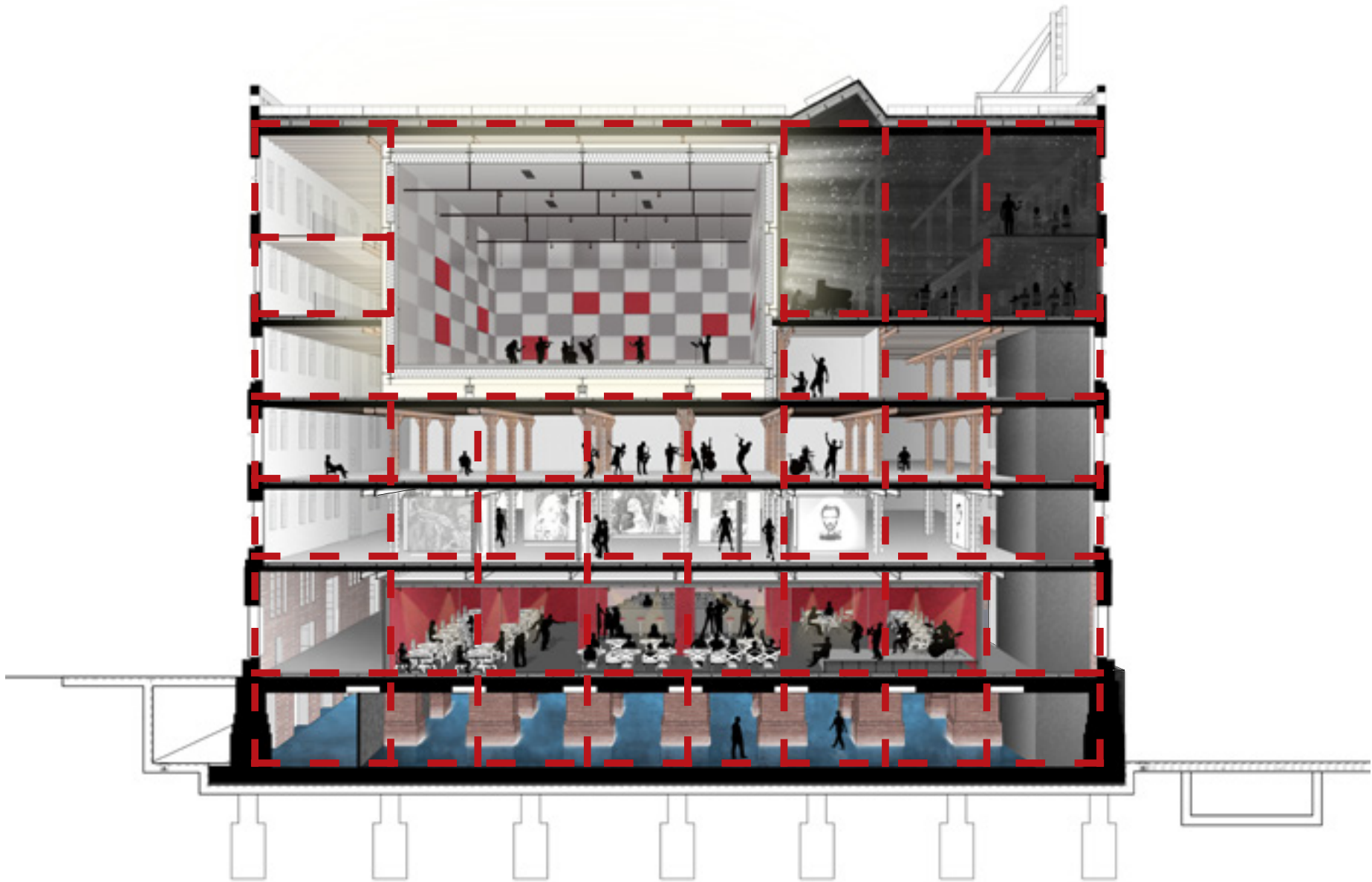






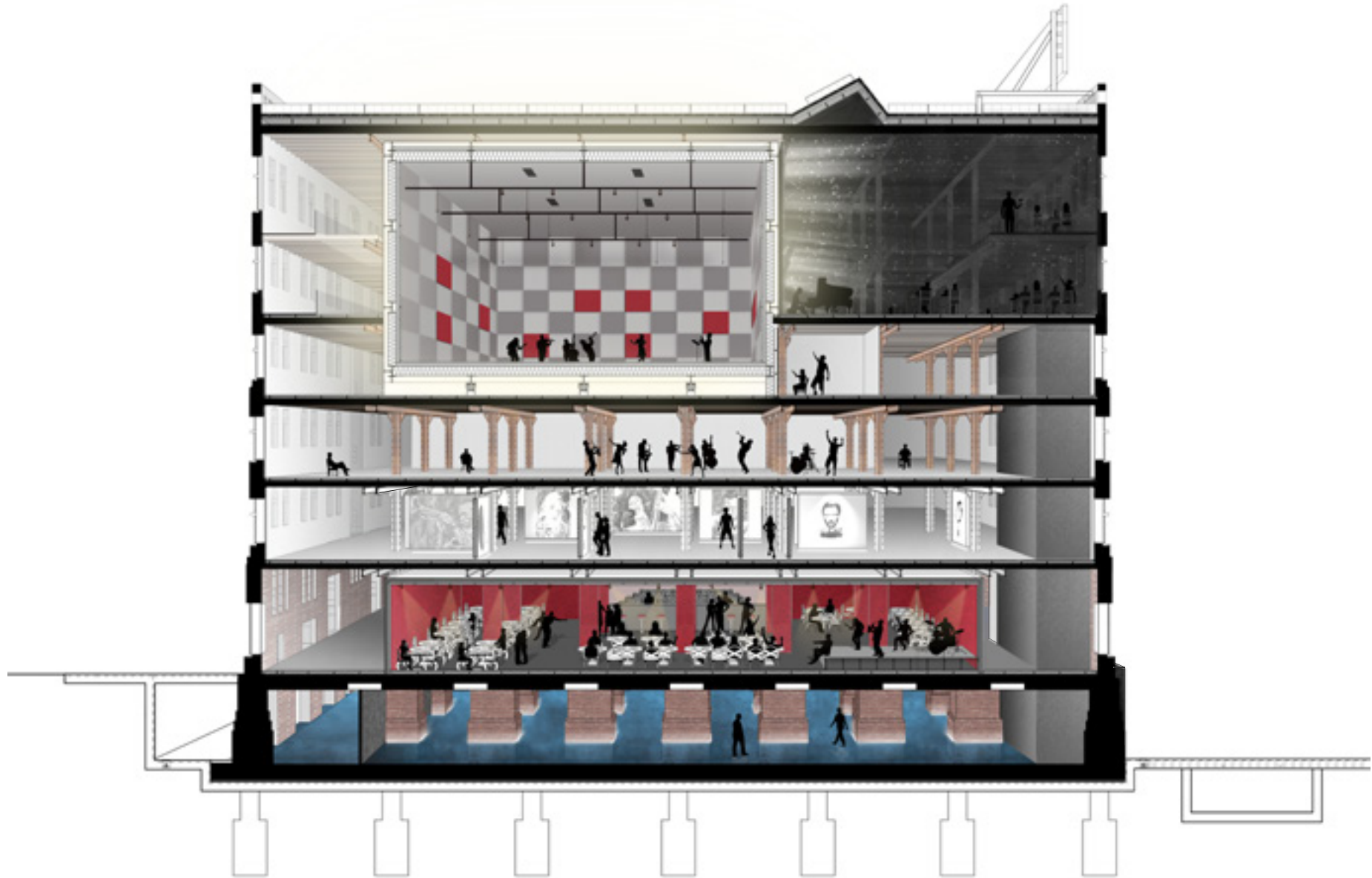


Sound

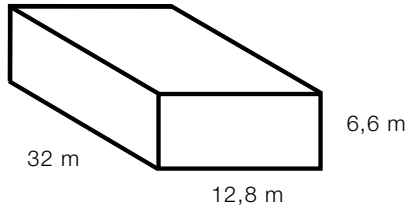


Acoustics

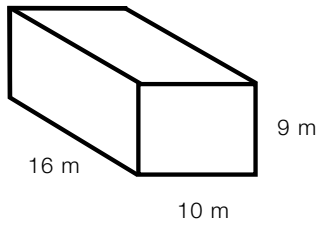
Cultural Value:
Disconnection from existing structure



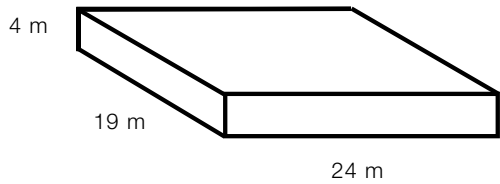
Acoustics



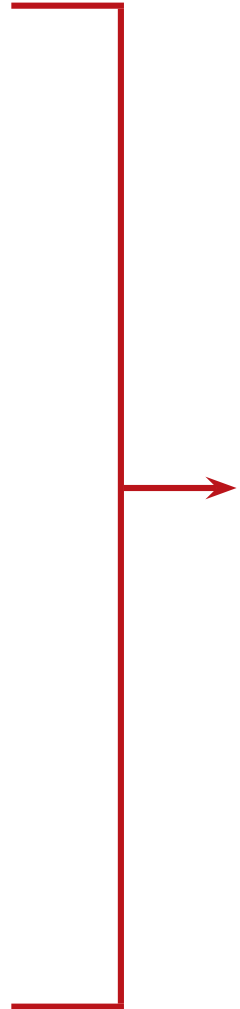
Piano Restaurant



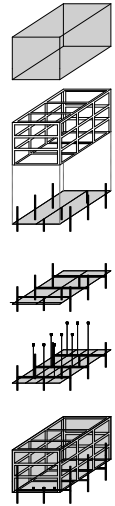
Explore Lab

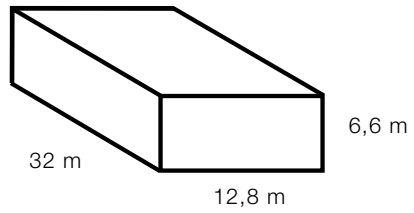


Red Velvet Club

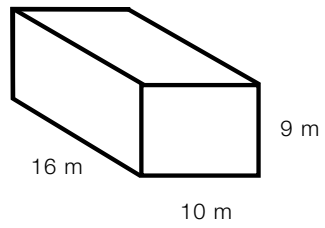


Goal: To create a good musical balance

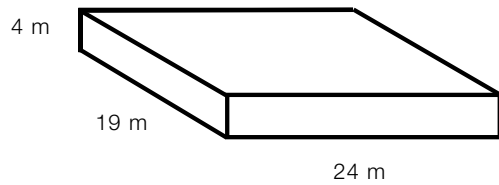




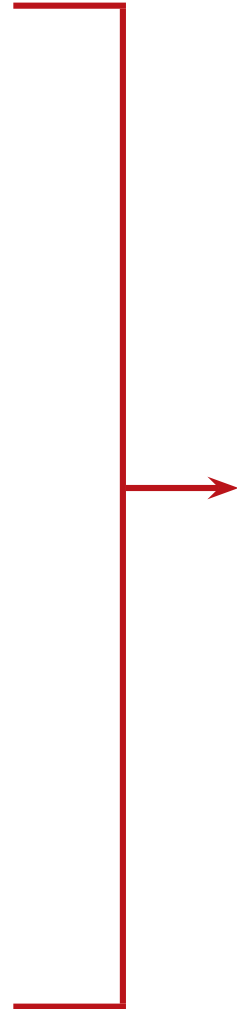
Piano Restaurant



Explore Lab

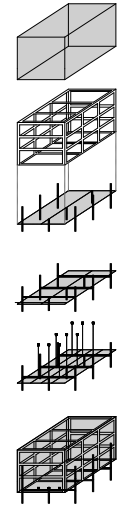


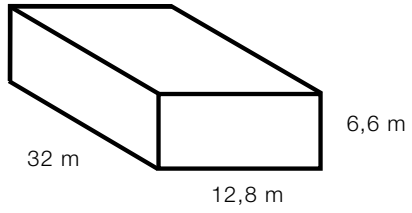
Red Velvet Club



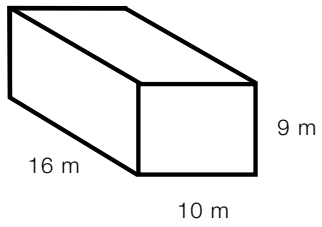
Goal: To create a good musical balance

- Specific room geometries
- Placement of piano/stage
- Absorbing and reflecting materials

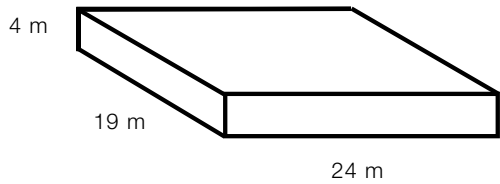




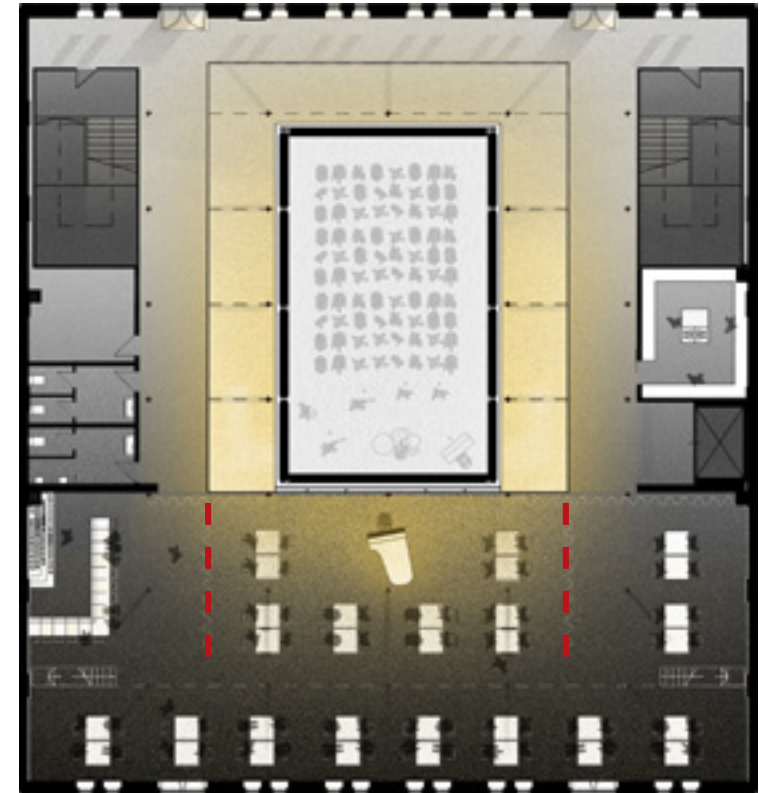
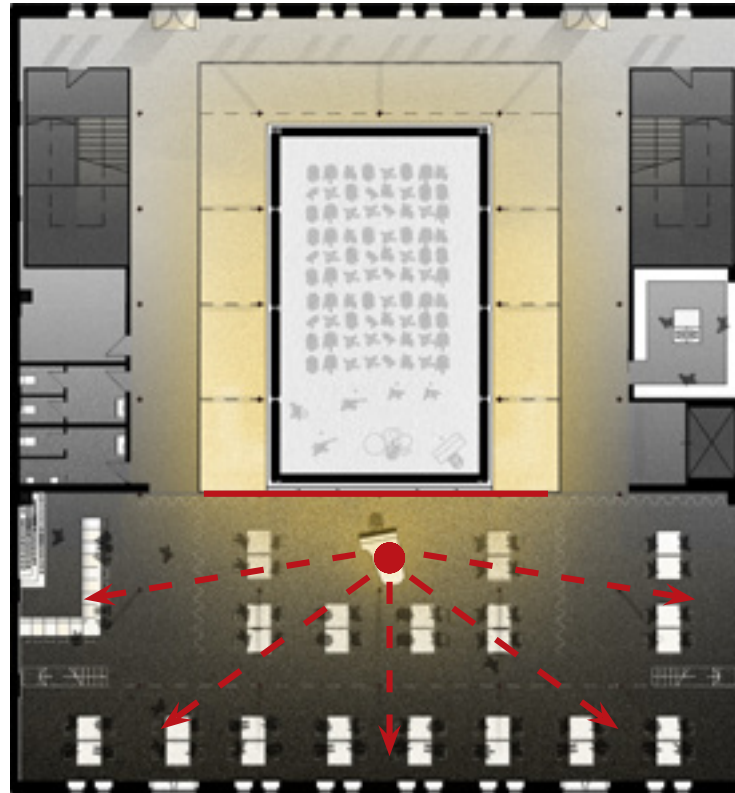
Piano Restaurant



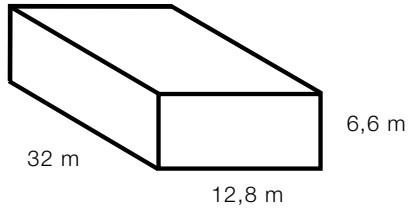
Explore Lab



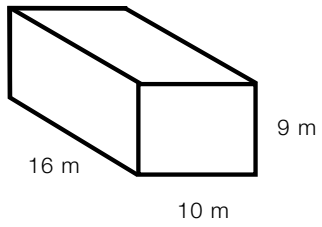
Red Velvet Club



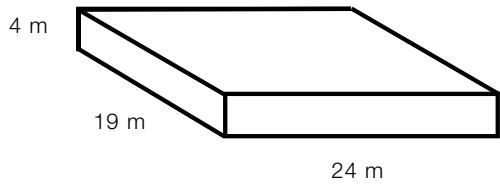
RT60current= 0,99 sec
(aavg=0,3) Goal: 0,7 sec



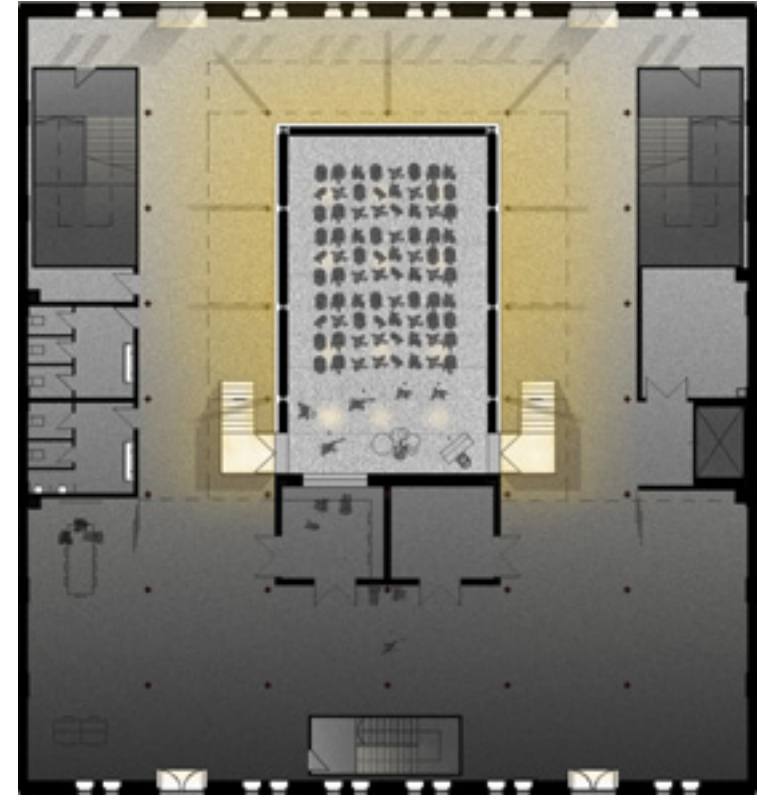
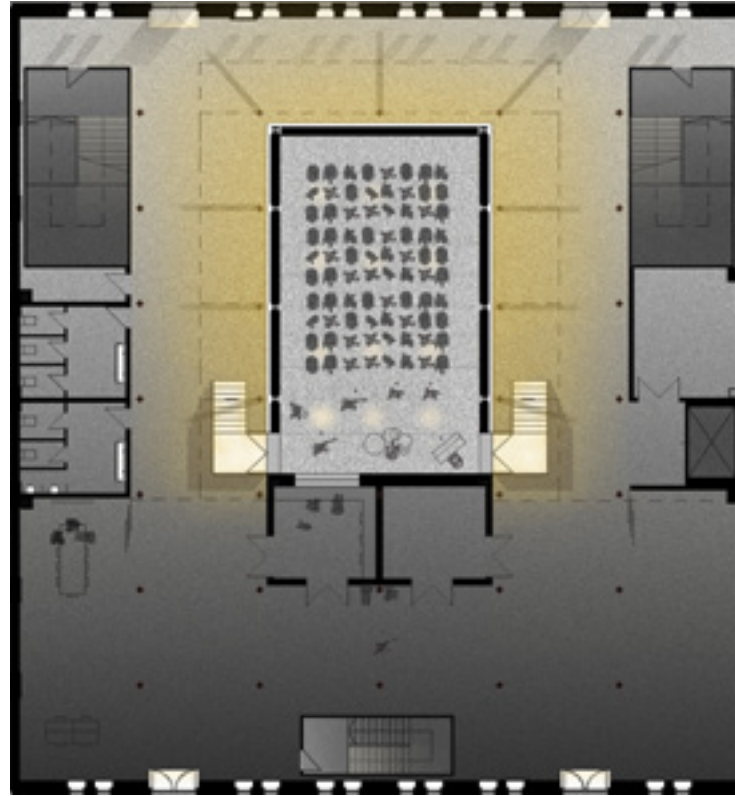
Piano Restaurant



Explore Lab

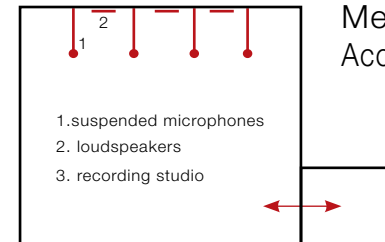
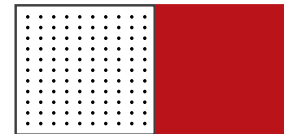


Red Velvet Club

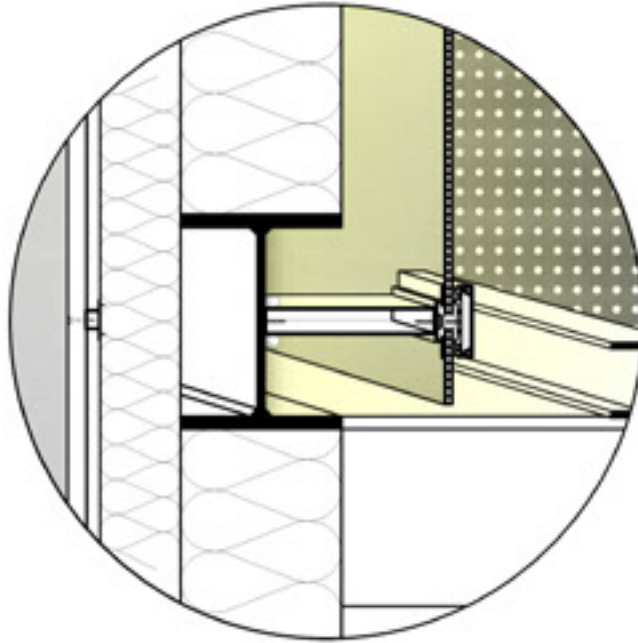


Ratio $h \times w \times d$ (1 x 1,04 x 1,8)
 $RT60_{current}=0,95$, Goal: 0,5 sec

Flipping wood-velt
 absorbtion panels



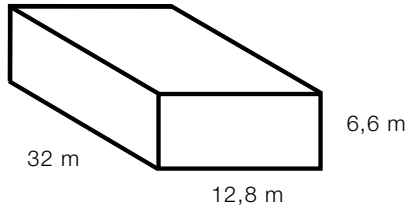
Meyer Sound System:
 Acoustical science breakthrough



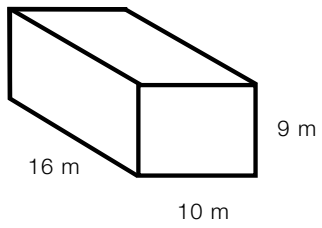
Explore Lab 1:10, Level 4

1 - Wall Construction

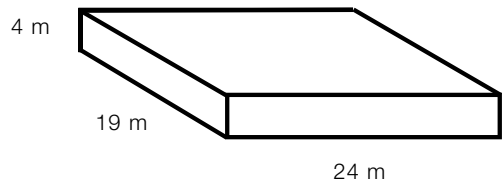
- 36 mm Acoustic Panel
- 20 mm Cavity with Panel Screw
- 150 mm Acoustic Insulation
- 400 mm HEB 400 in 300 mm Acoustic Insulation
- Polycarbonate Mullions
- 25 mm Translucent Polycarbonate Sheets



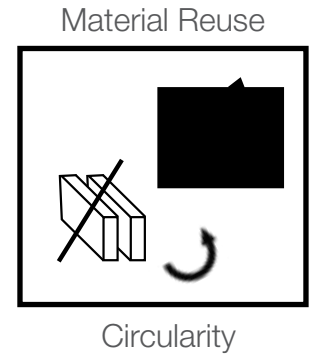
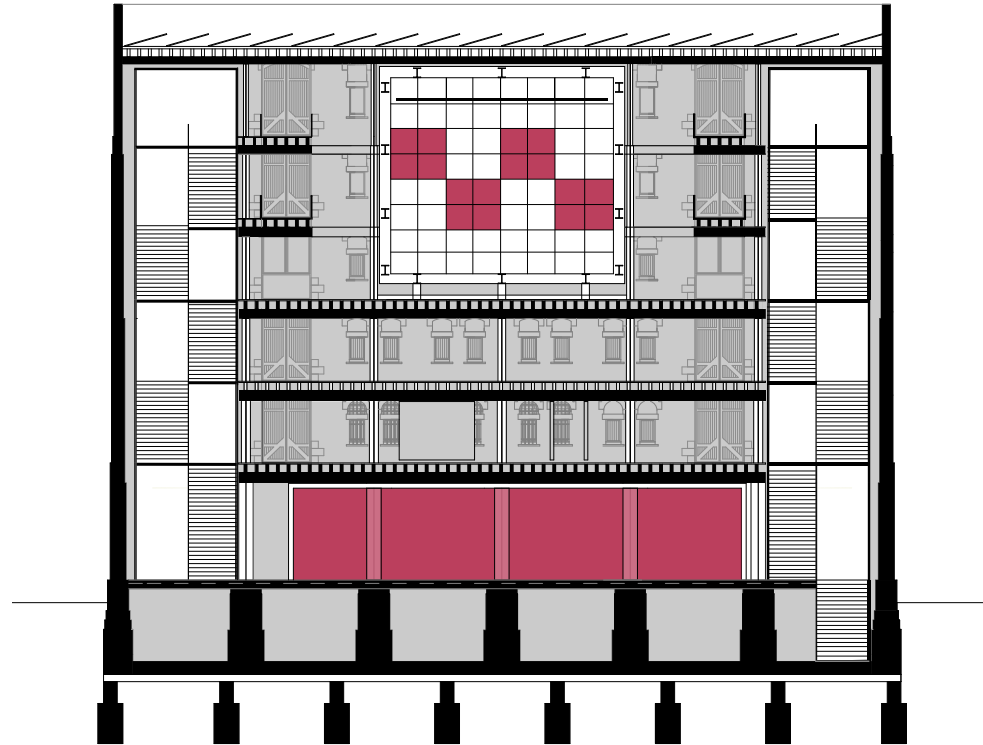
Piano Restaurant

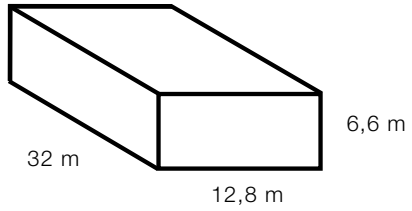


Explore Lab

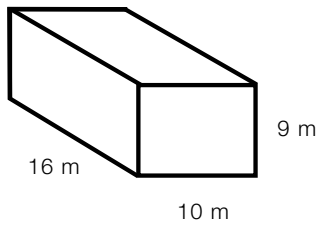


Red Velvet Club

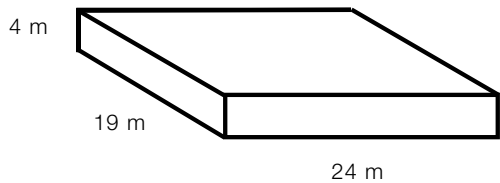




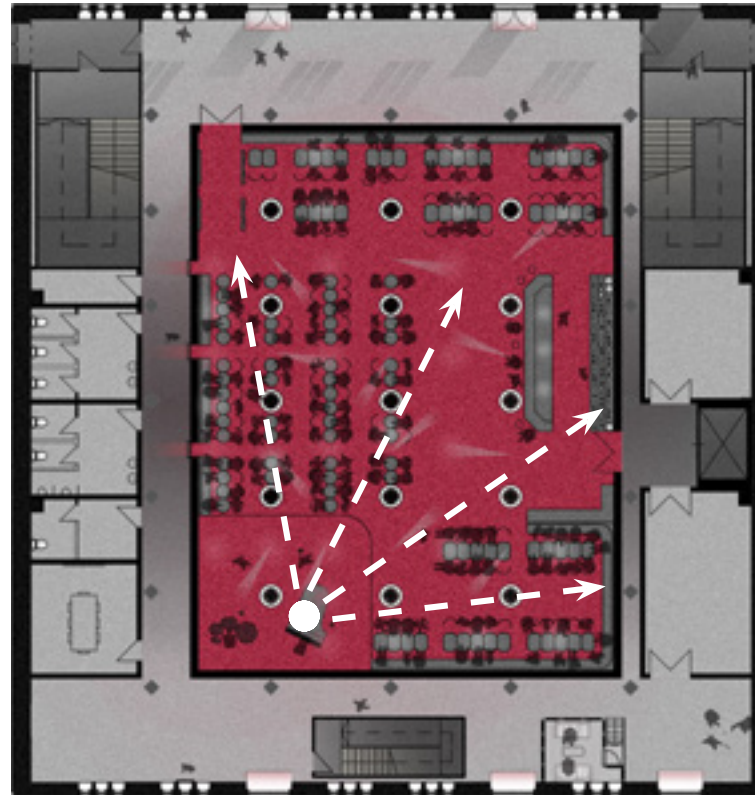
Piano Restaurant



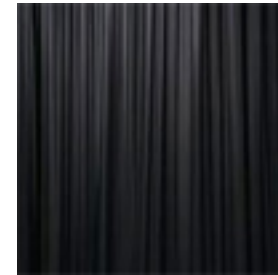
Explore Lab



Red Velvet Club



RT60current= 1,1 sec (aavg=0,3)
Goal: 0,5 sec



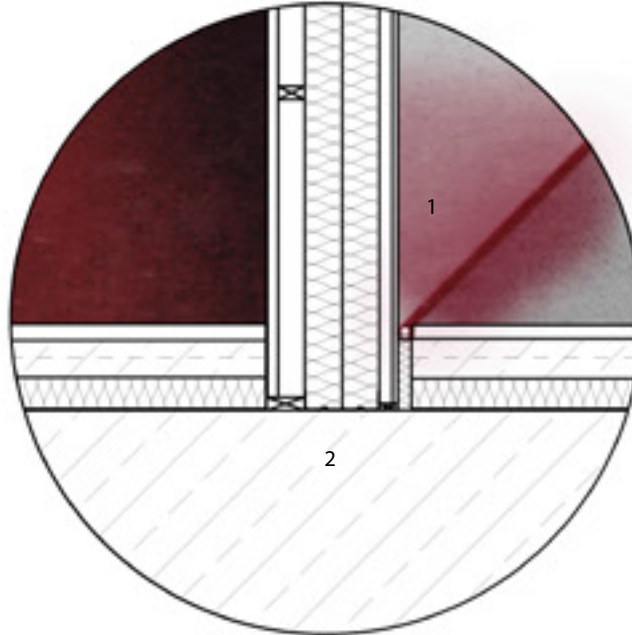
Curtains



Red Velvet Chairs



Acoustic ceiling:
Fibreglass Core
and fabric coating



Inner Red Velvet Club 1:10, Level 0

1 - Wall Construction

- 2 mm Red Velvet Felt
- 20 mm Plaster Board
- 50 mm Wooden Crosswise Cavity
- 55 dB Weighted Sound Reduction
- 20x65 mm Acoustic Slab Rockwool frames
- 25 mm Plasterboard (12kg/m²)
- 10 mm Plaster/Led Neon Flex Strip

2 - Floor Construction

- 100 mm Polished Concrete (Screed plus upper layer)
- 60 mm Rockwool Insulation
- Vapour Barrier
- 650 mm Existing Hennebique Concrete Slab

<https://youtu.be/PM6X8a1cRJg>

