

P5 PRESENTATION

Encountering The Voidness Mashhad, Iran

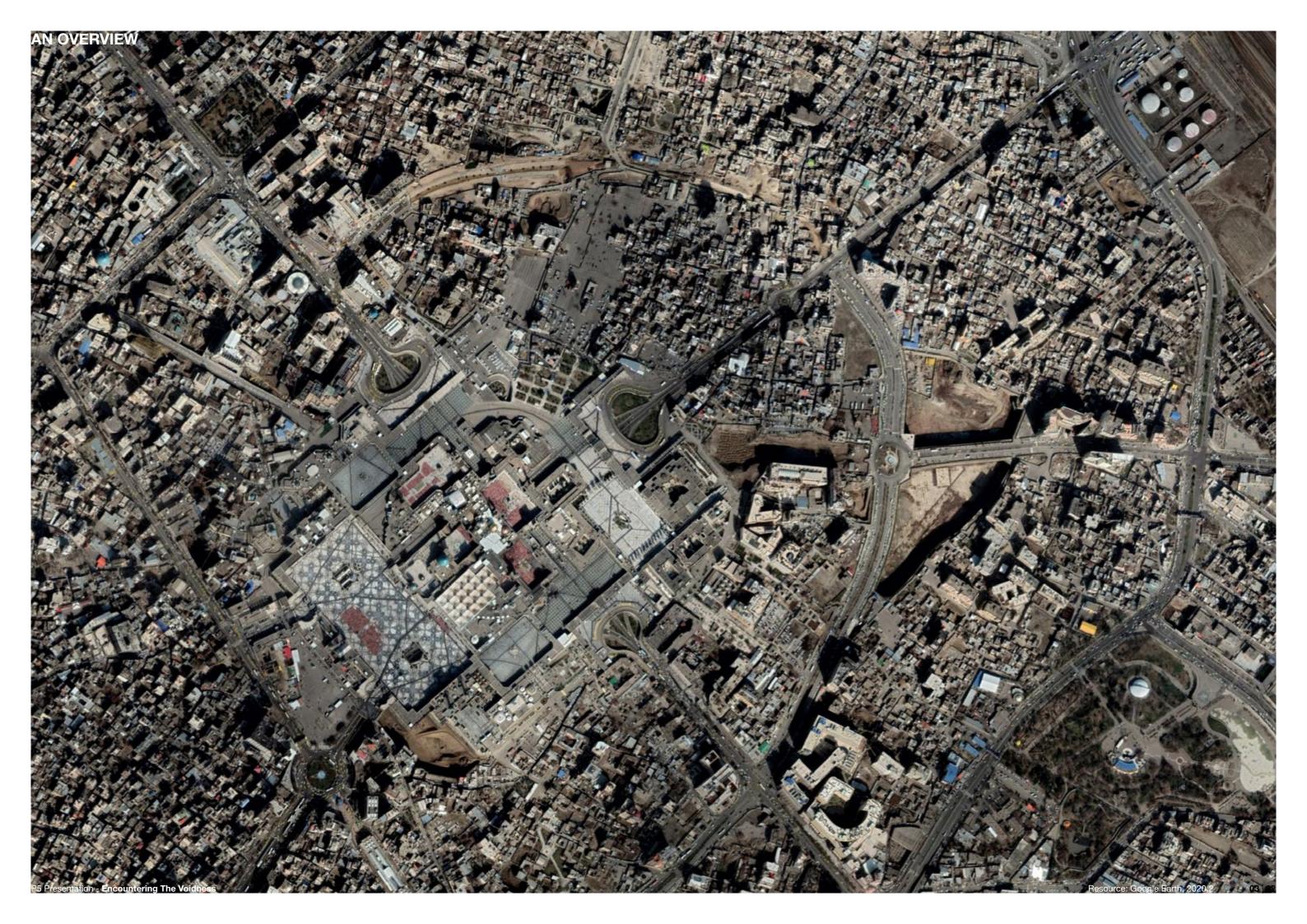
Suihao (Jackson) Zhen, 4773004 July, 7th, 2021

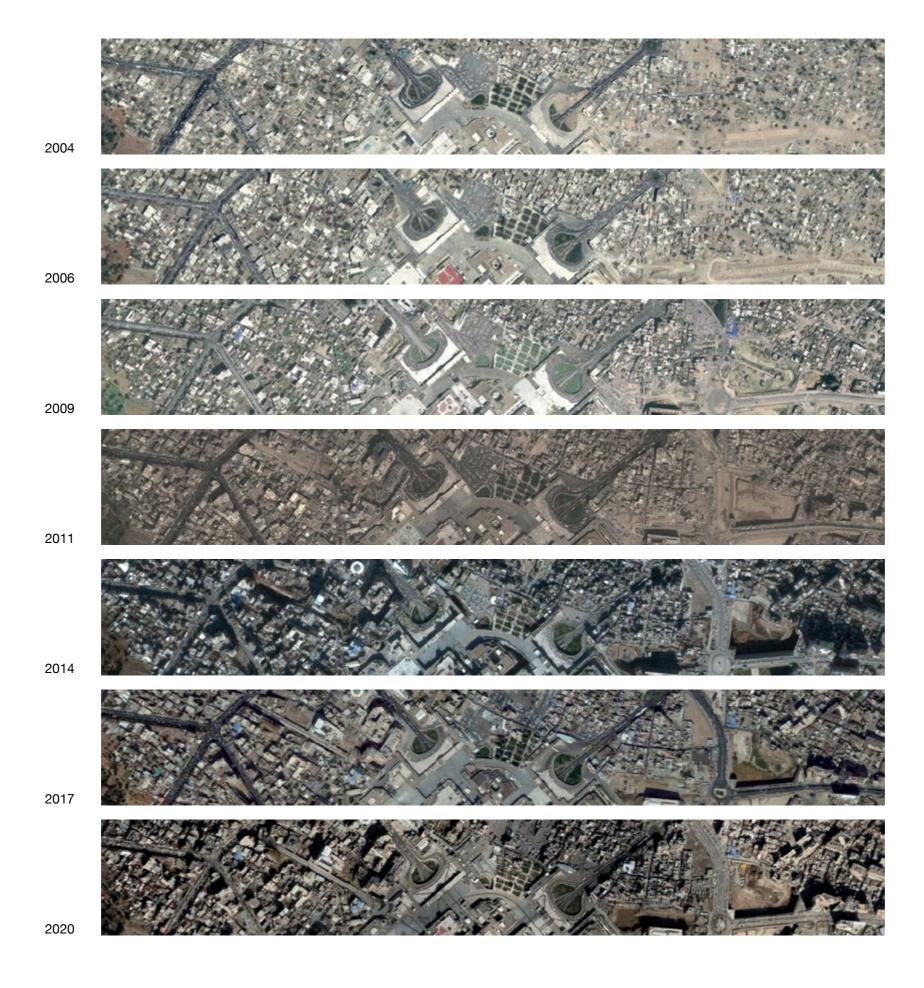
Borders & Territories Graduation studio (2020-2021) - Emerging border conditions in Eurasia Faculty of Architecture and the Built Environment, TU Delft

> Mentors: Marc Schoonderbeek Gilbert Koskamp Filip Geerts Negar Sanaan Bensi

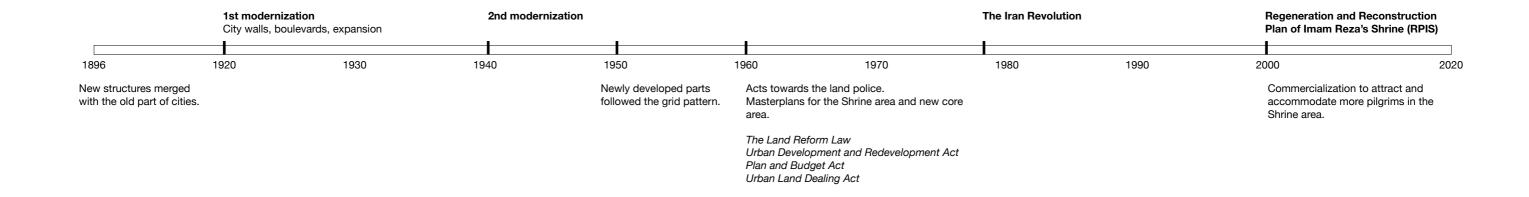
MASHHAD







URBAN DEVELOPMENT





P5 Presentation - **Encountering The Voidness**Resource: Documentary Amnesia by Hassan Akhondpour (2017)

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Due to value of the land switched from socio-cultural/religious to commercial aspect, the geographically detached voids meet each other through the same spatio-temporal experiences.

Patterns of infrastructure are the evidences of (dis)continuity. The city turned into a situation of fragmentation and thus juxtaposition.

RECOGNITION OF THE VOIDS

Urban voids are the indispensable configurations within the urban environment.

They should be recognized as distinct spatial entities within the cities and also in the sense of human culture, as the holder of the memory and historical layering of the life of the city.

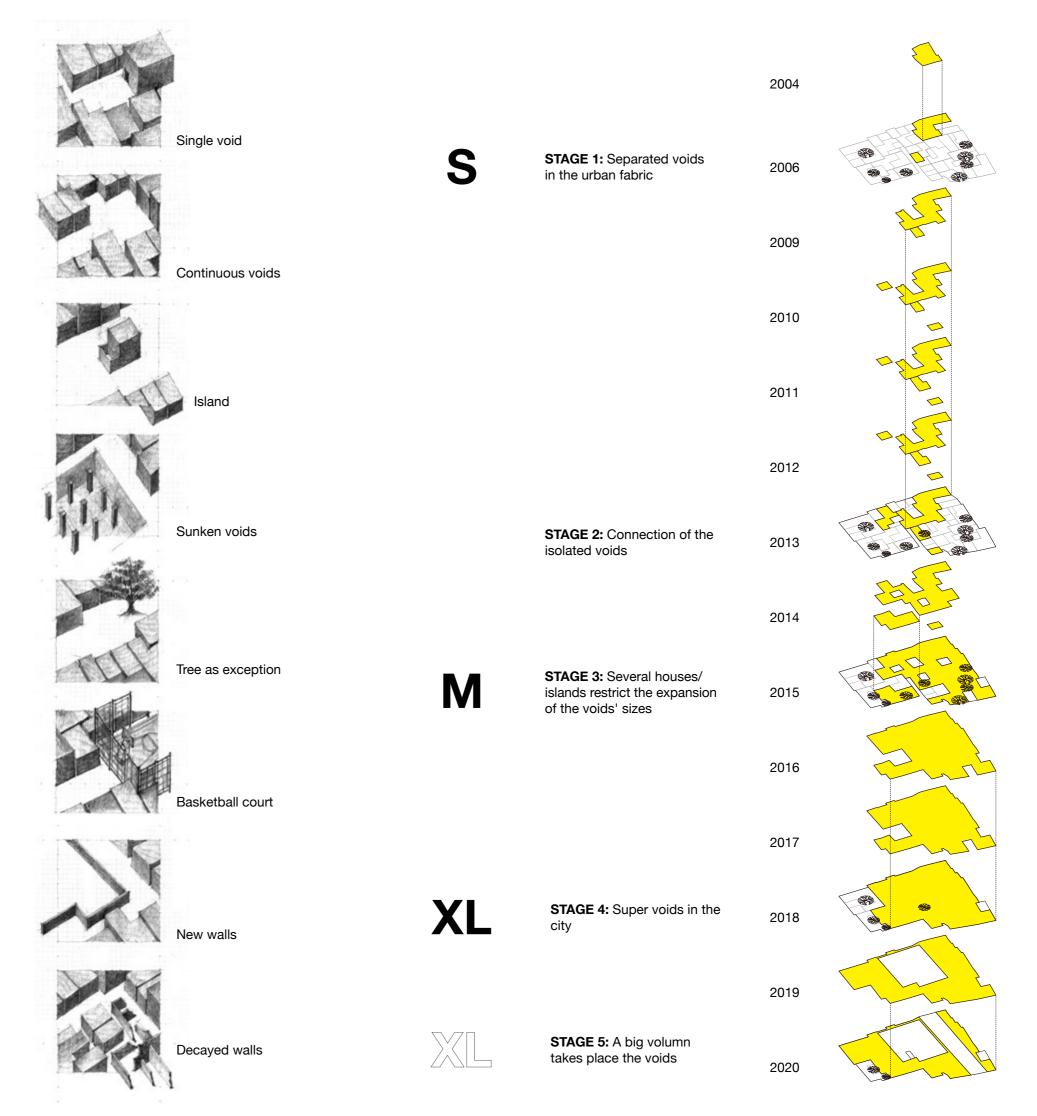
CHAPTER TWO



CONDITIONS OF THE VOID

Typologies of voids in Mashhad feature themselves in the sense of time whose suspended processing transcends the notion of space.

Development of voids started from separated ones which can be considered as its self-development, to political intervening connection, to the super voids and super buildings. This course shows the unbalanced relation between commercial engagement and the complex social and political history within such a fast transformation.



SCENARIOS IN THE VOIDS

Loss of identities leaves the illusion that no one has ever set his foot into this place. The fact is that, Mashhad is meeting its past. Before the rational zoning and massive volume being materialized in reality, the land is temporarily turned into a suspension in the form of various voids.



"Further away from Akhavan's burnt house that is no trace of it any more and it's been forgotten..."



"The old texture of every city shows the backgound and history of that city"



"Music..."



"The root of the matter is the humilination of humans and preferring personal interests to the public interest."

ATMOSPHERE IN THE VOIDS



The pigeons create a lively scence on the roof.



Reflection of the window on the other concrete wall.



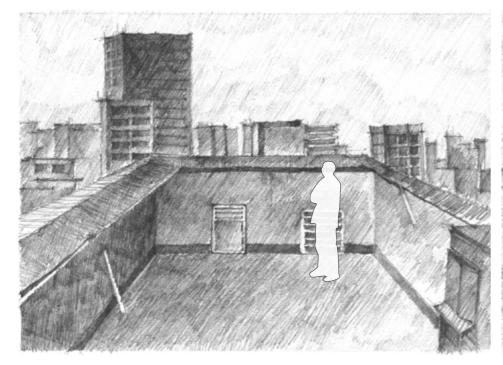
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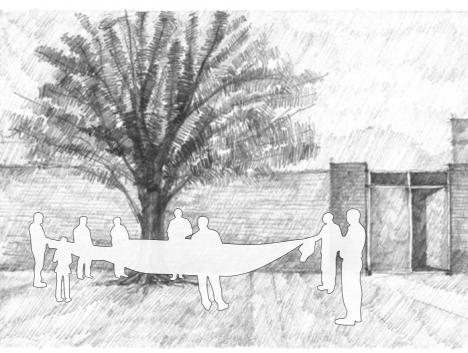
Perspective layers of the old urban fabric.

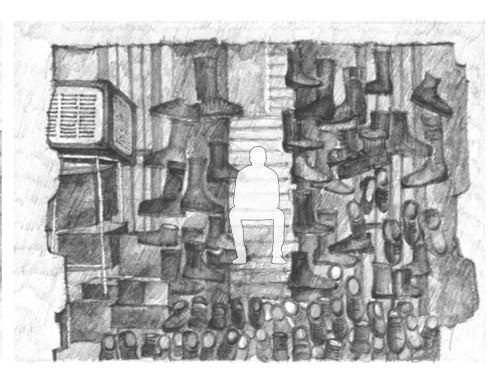
P5 Presentation - Encountering The Voidness

Resource: Alireza Masoumi @ISNA and Instagram

EVENTUALIZED TERRITORY

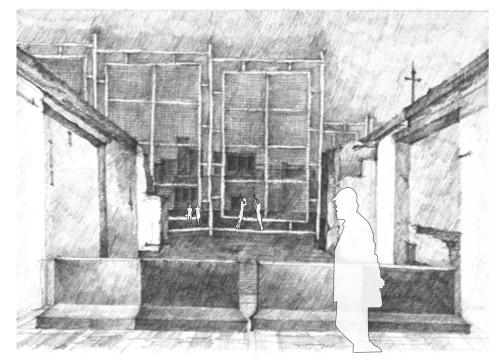






The intimate and collective connections between the people and the land altered since the urban voids were generated.

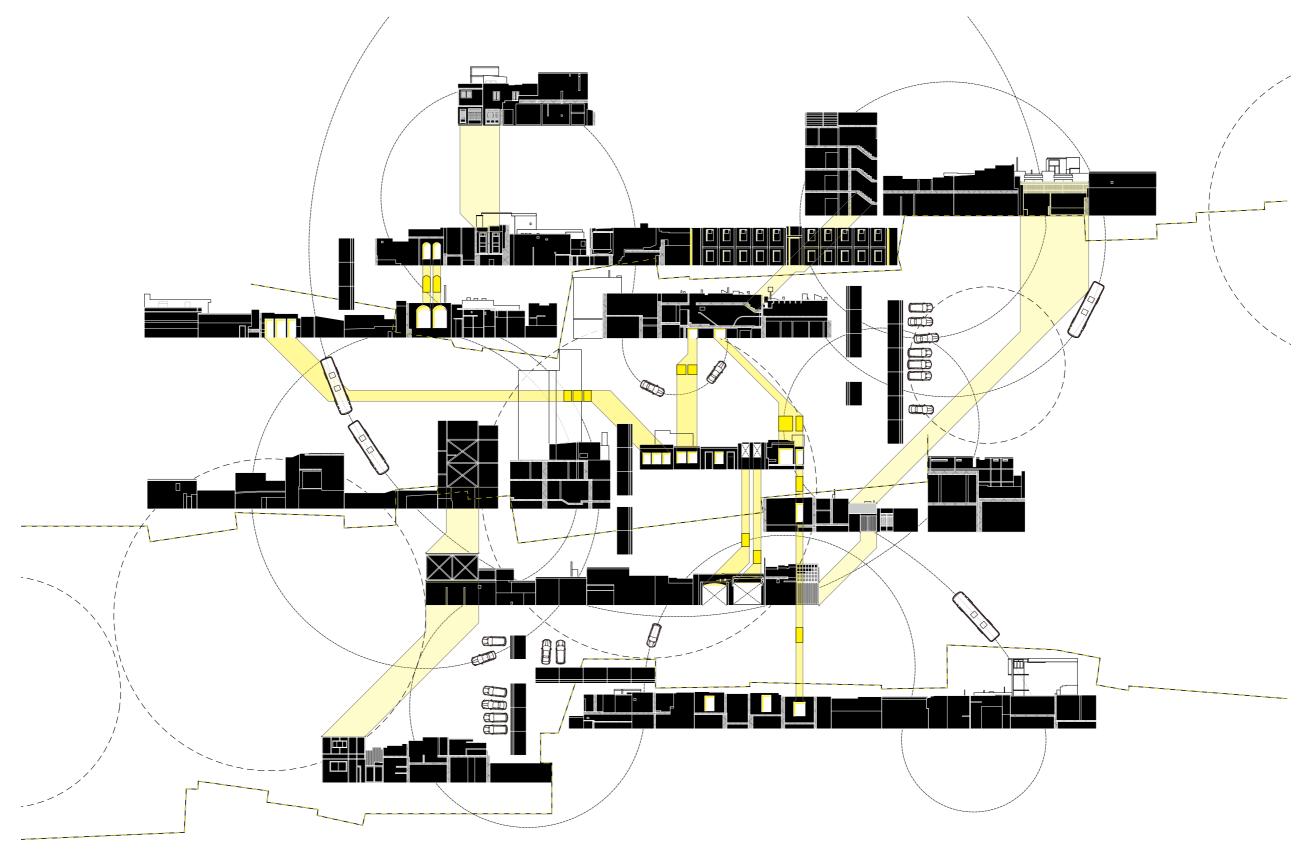
EVENTUALIZED TERRITORY





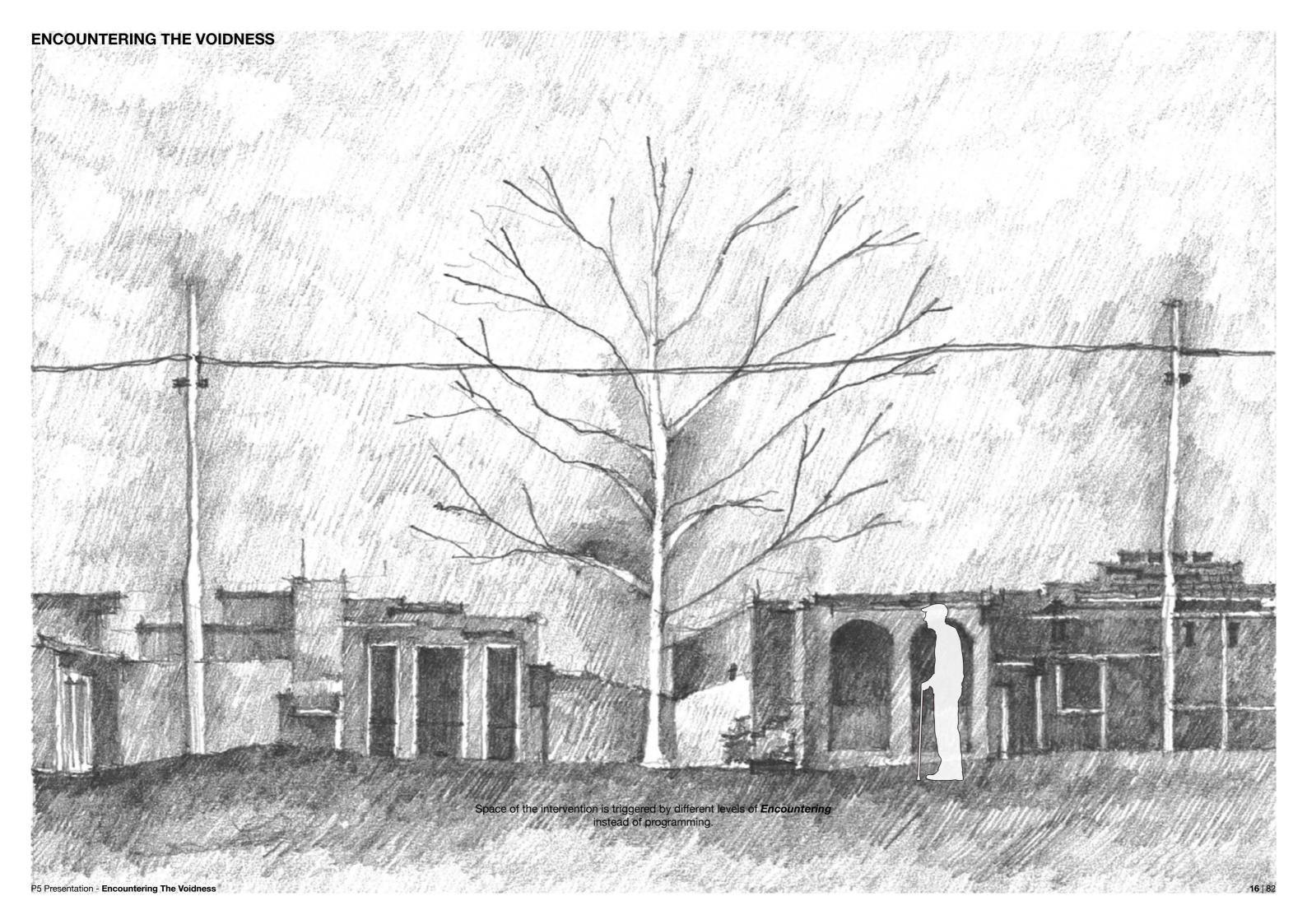


Scenes in a void are framed and veiled, while suspension of the void allows their temporal occupations and acivities to engage in.



AN UNDEFINED AGENT

The project aims not only to represent the palimpsest of the territory but also to topologically connect the city throught the translation of voidness.



LOCATION

REQUIREMENTS OF THE SITE

1. Historical fabric with big voids

Large suspended voids are significant and prominent in the city. No more voids need to be constructed if this engagement involves in the current urban emptiness area

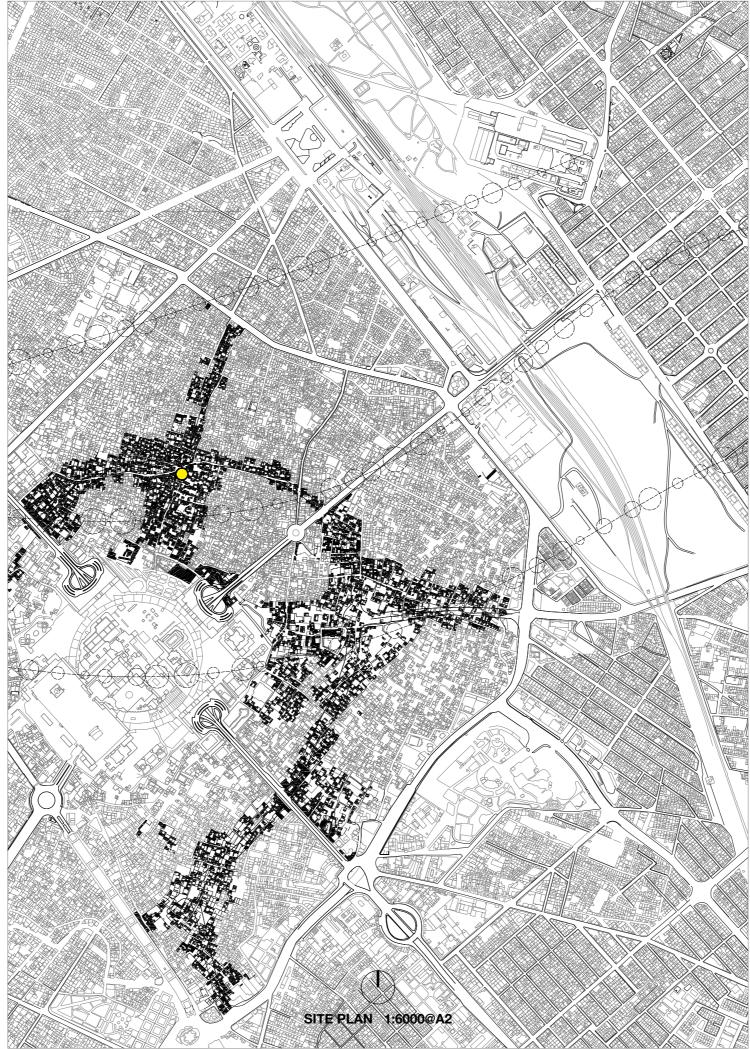
2.At the edg of a territory/Near a border

The intervention engages in the city/fabric as an action of transgression

3.Location of the regathering places

The original inhabitants put up a cloth around themselves, calling it Takiyeh, and do the mourning ceremony like what has existed in the history. These places indicate the events that happend within and due to the voidness.

4. Path of the qanats

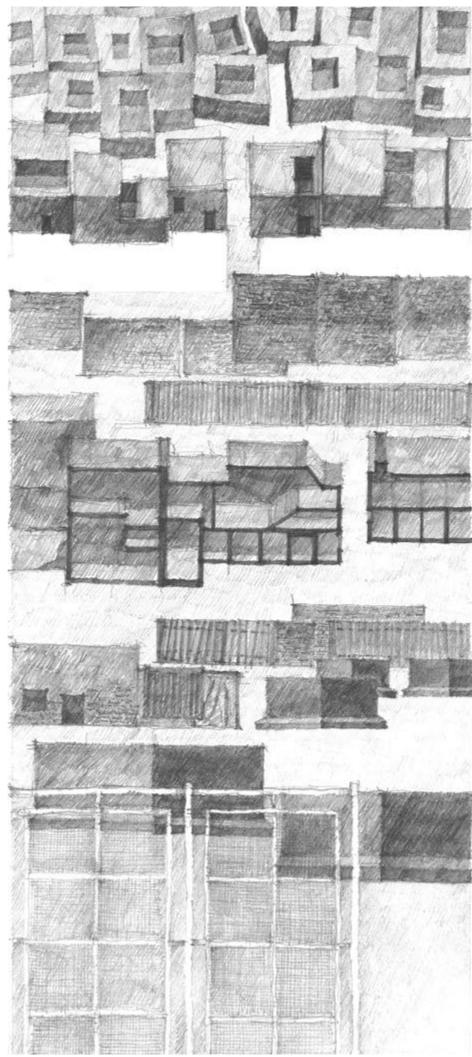


SUPERPOSITION

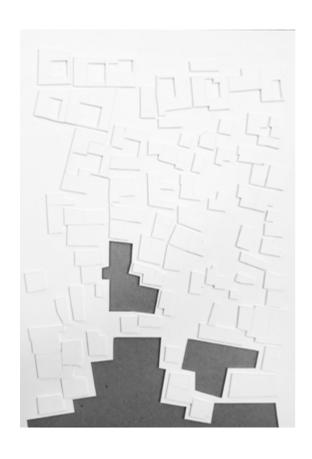
PALIMPSEST OF THE LAND

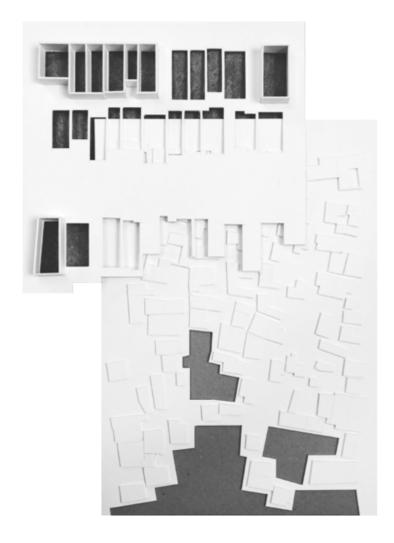
A cities' old structures comprise the primary core of a city formation.

Even the site boundaries contain the comprimised and negociated relations between the inhabitants. The palimsesteous diversity of voids manifests a contradictory entity that in terms of its simultaneously emptiness and richness.



OVERLAYING THE CONTRADICTED FABRICS

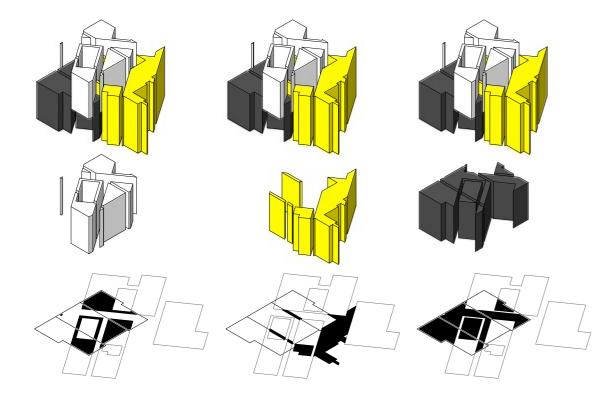






The organic fabric and the modern grid fabric are the distinguished and prominant in the sense of urban iteration. This action of overlaying triggers the following intersection in terms of its space of void within these two layers.

VERTICALIZING THE STRATIFICATION

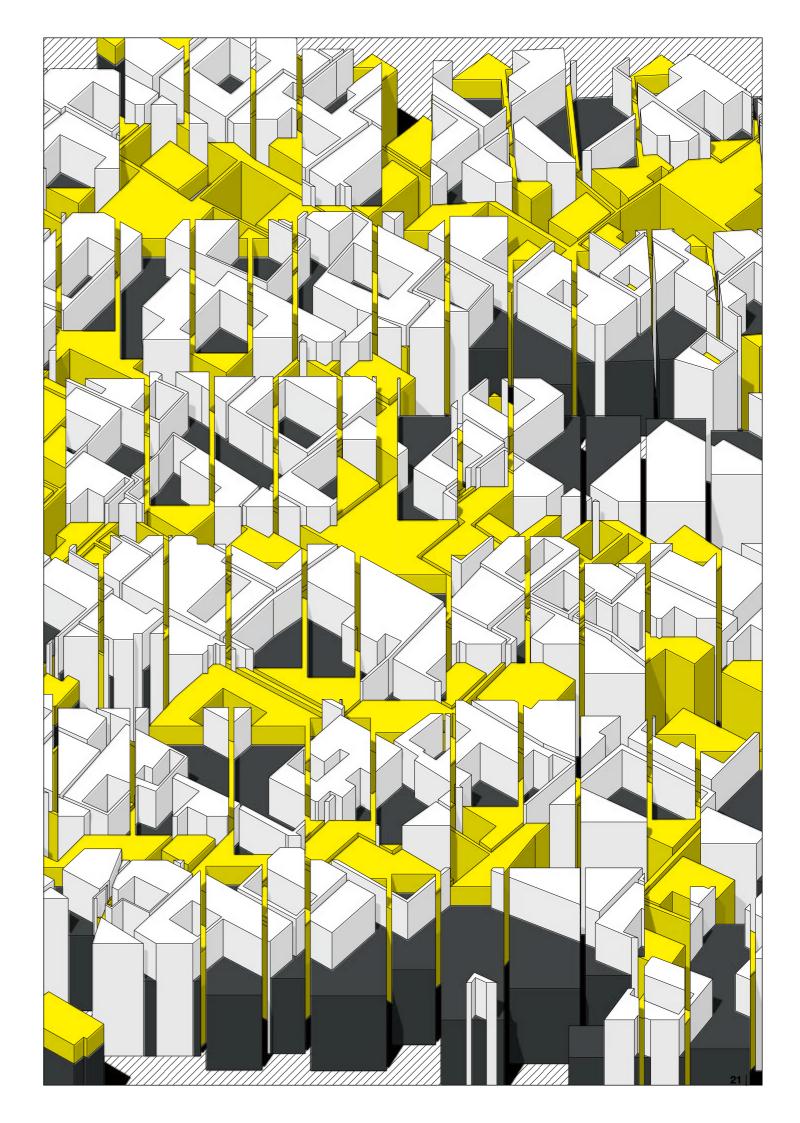


THE ACTION OF INTERSECTING

Houses intersection
The volumn of fabric, the counterpart of void

Voids intersectionEntity of voids in during the two periods

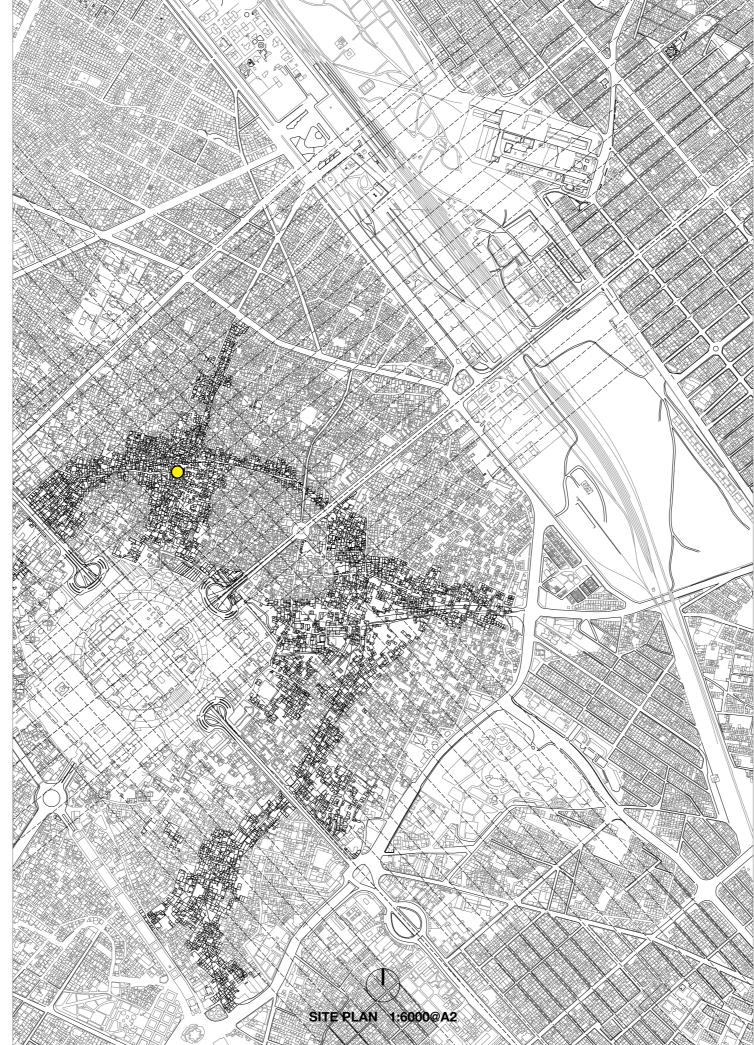
New houses and old voids
The new urban pattern takes
over the autonomy of old
fabric



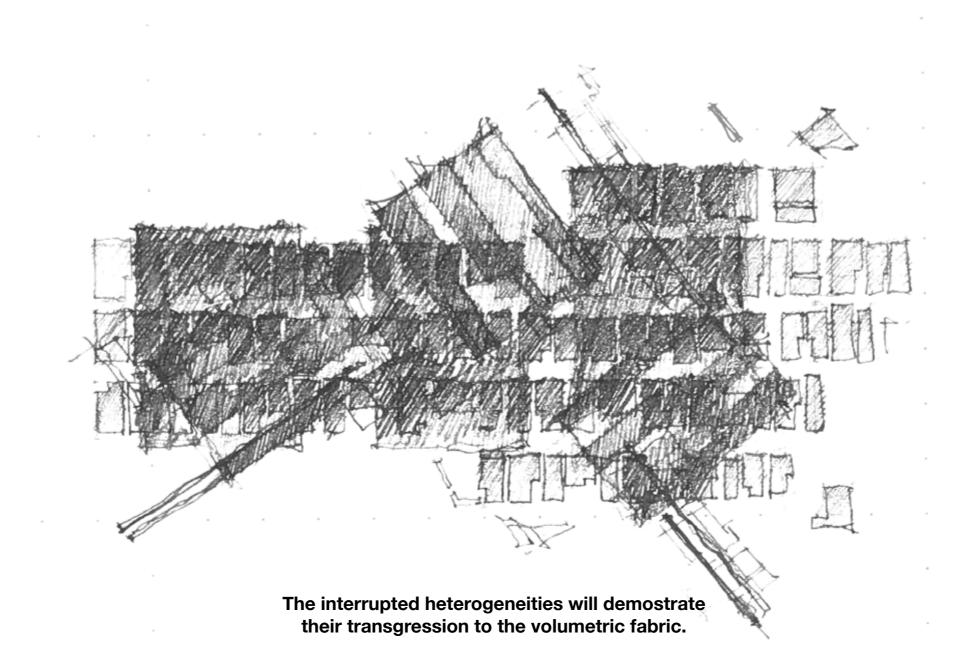
SITE LOCATION

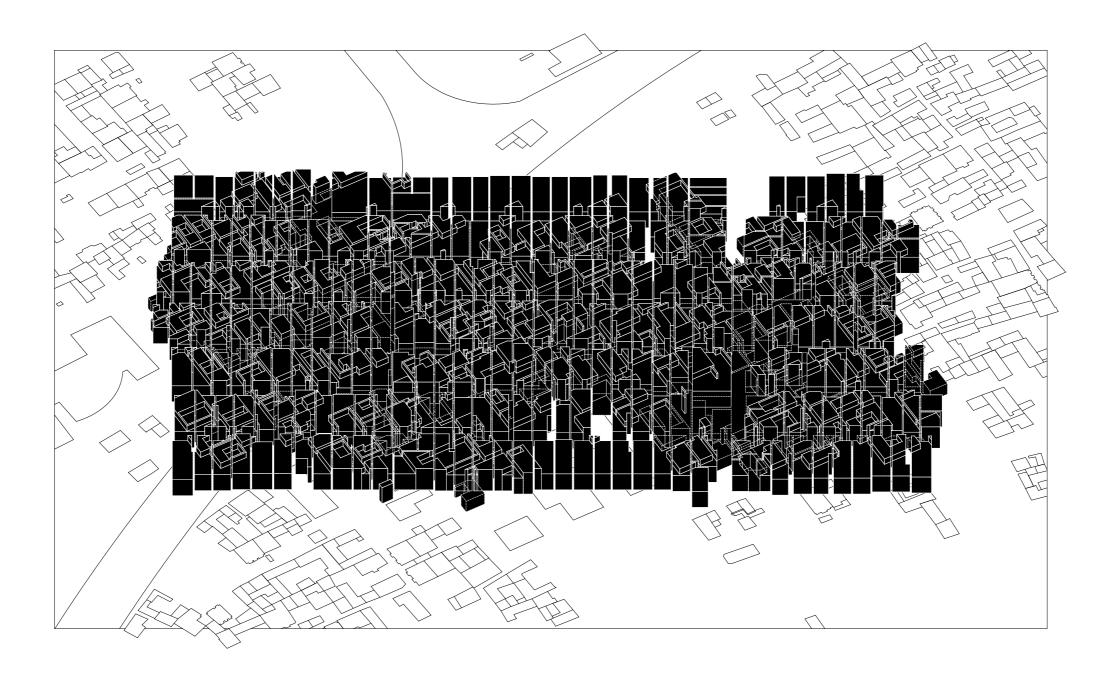
TWO PROMINENT URBAN PATTERNS

- Dominated by infrastructure and urban grids
 Dominated by organic organization whose morphology shows the intimate relations between each other



INTERRUPTION

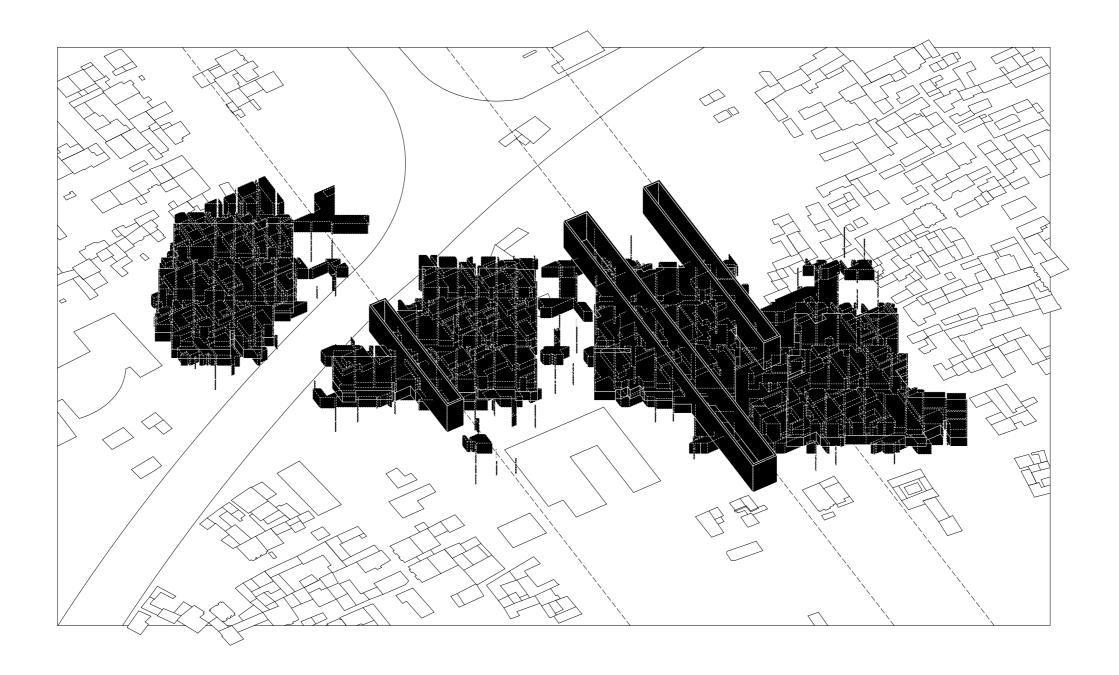




ALLOCATING THE VOLUMETRIC FABRIC



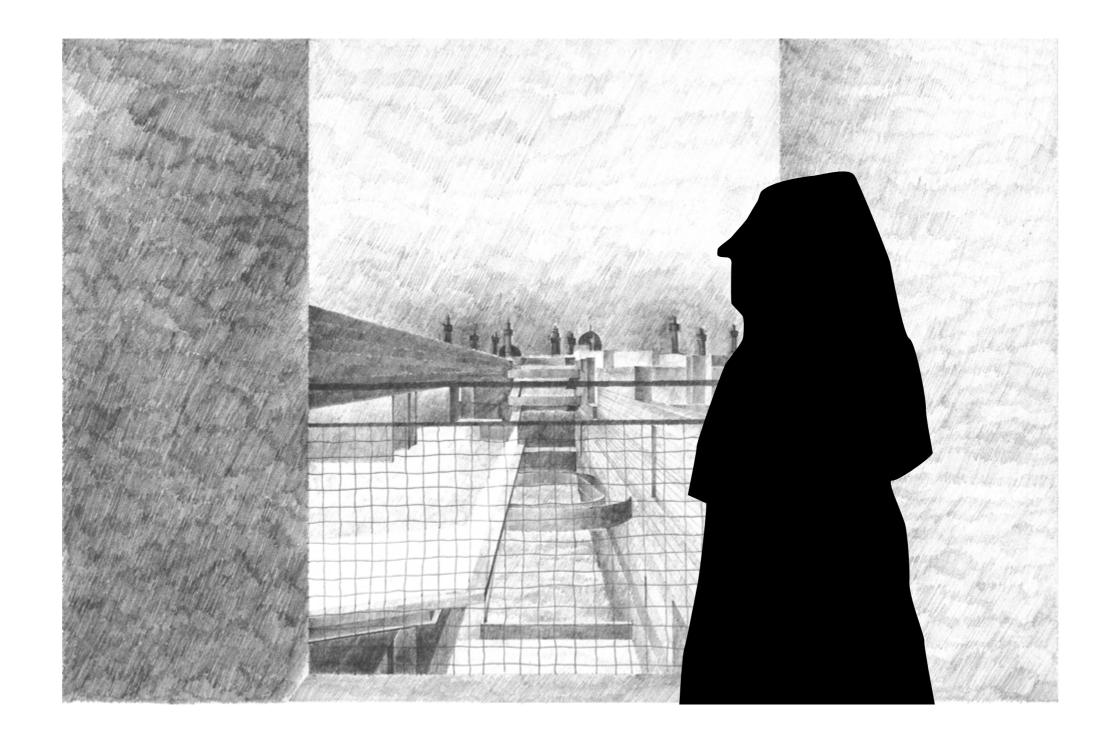
BREAKING DOWN THE BORDERS



INSERTING THE CORRIDORS

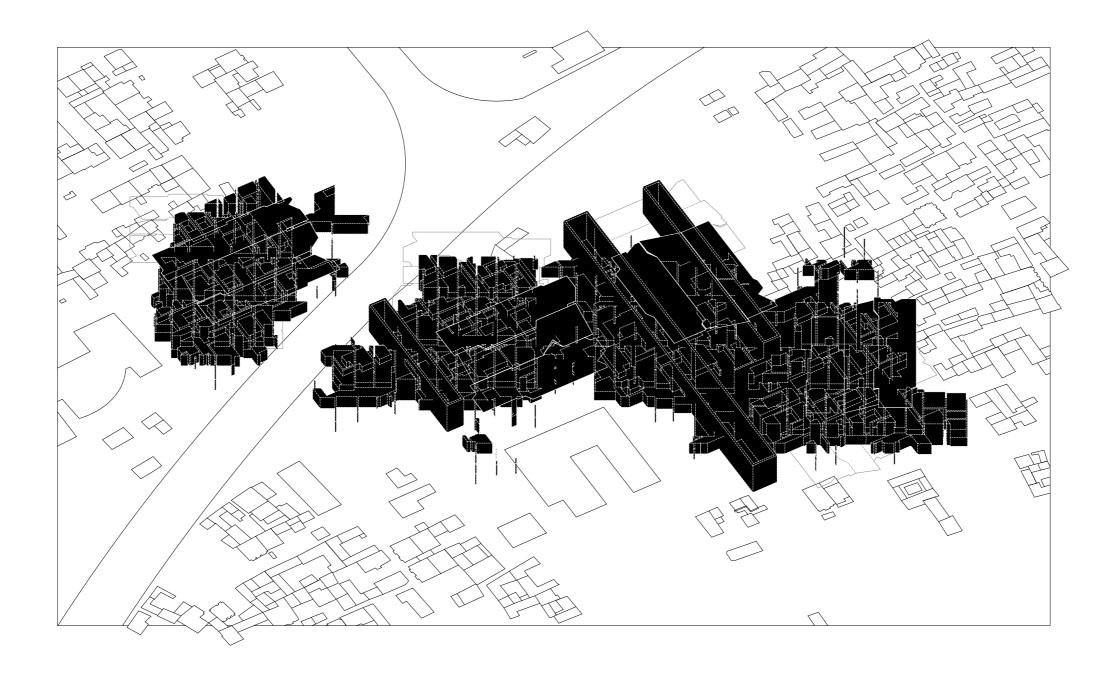
THE ALTERNATIVE SCENARIO

A void follow the way towards the Shrine

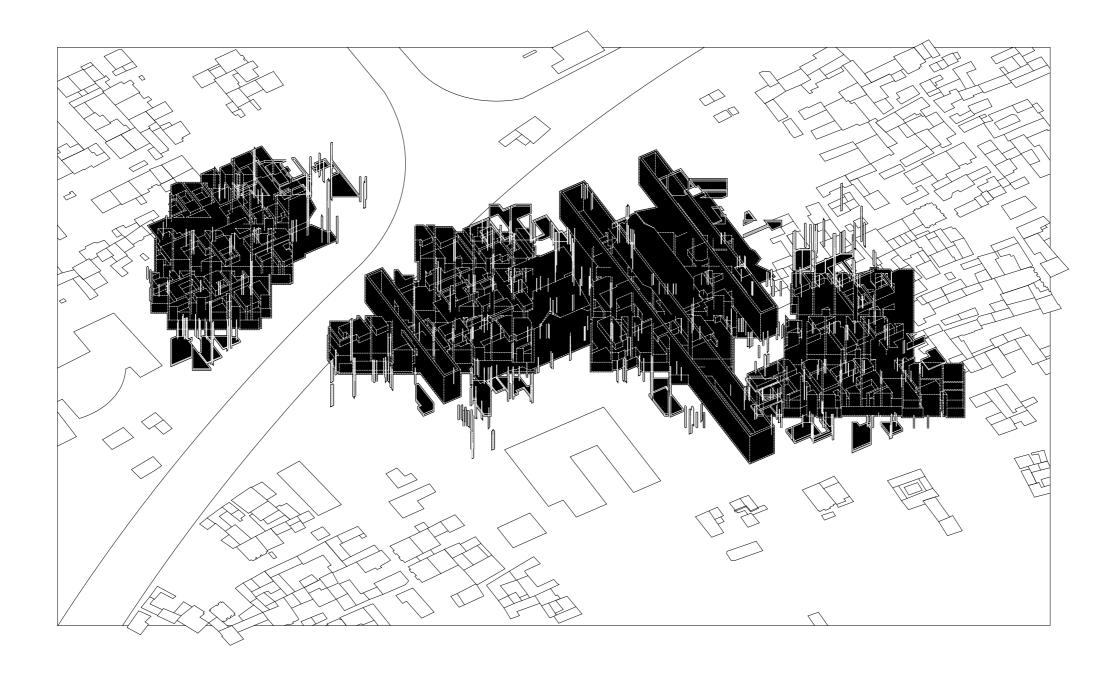


A TALK
Directionality of the corridors echoes the monumentality of a religious culture of an Iranian city - Mashhad.





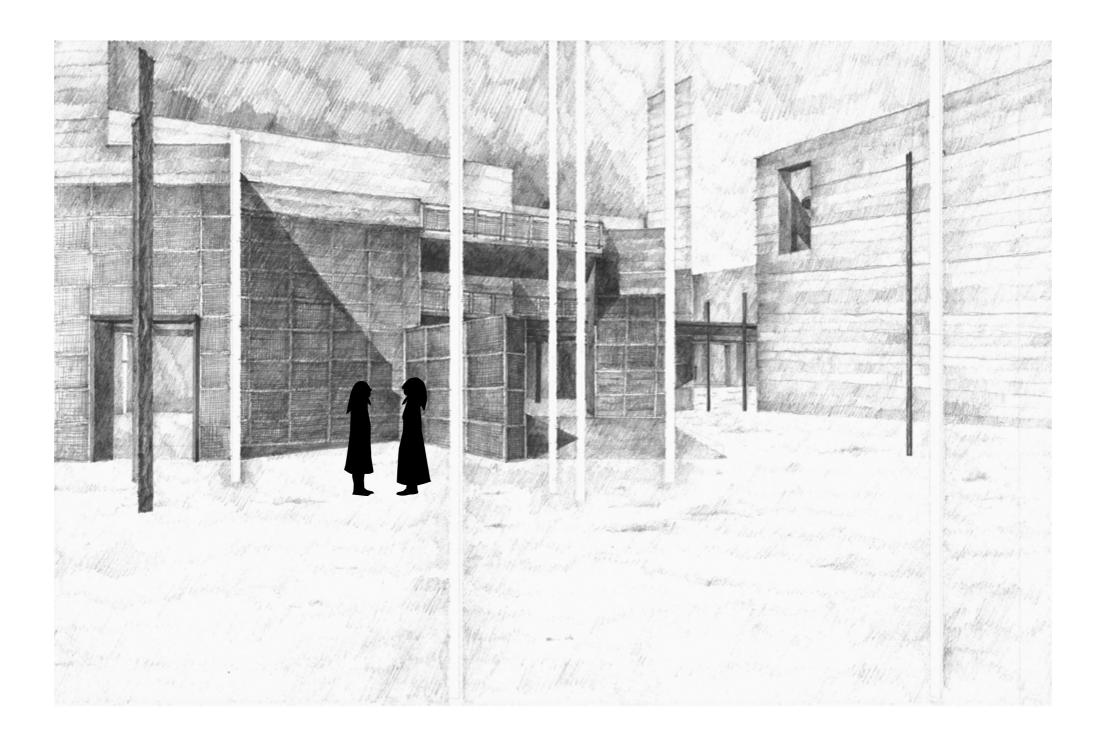
FOLDING AND SHIFTING THE FABRIC



ENTERING THE EXISTING FABRIC

THE ALTERNATIVE SCENARIO

The voids split up and frame the scenes

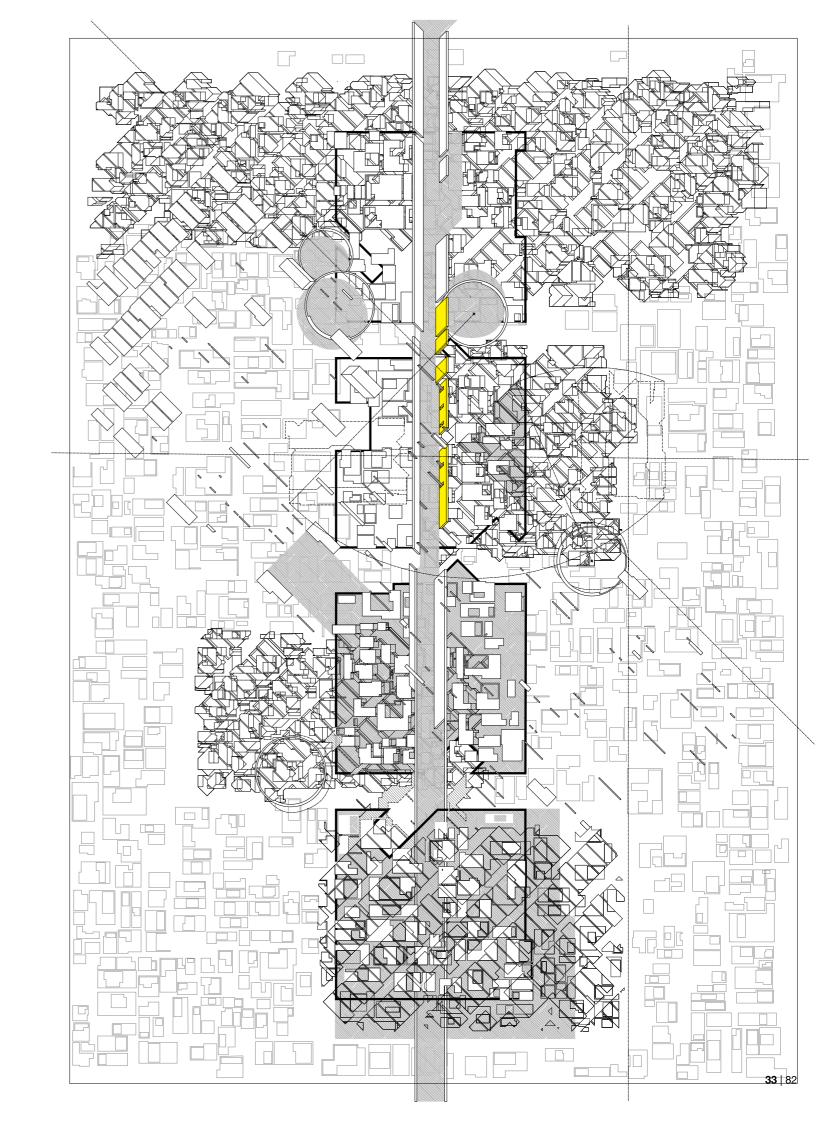


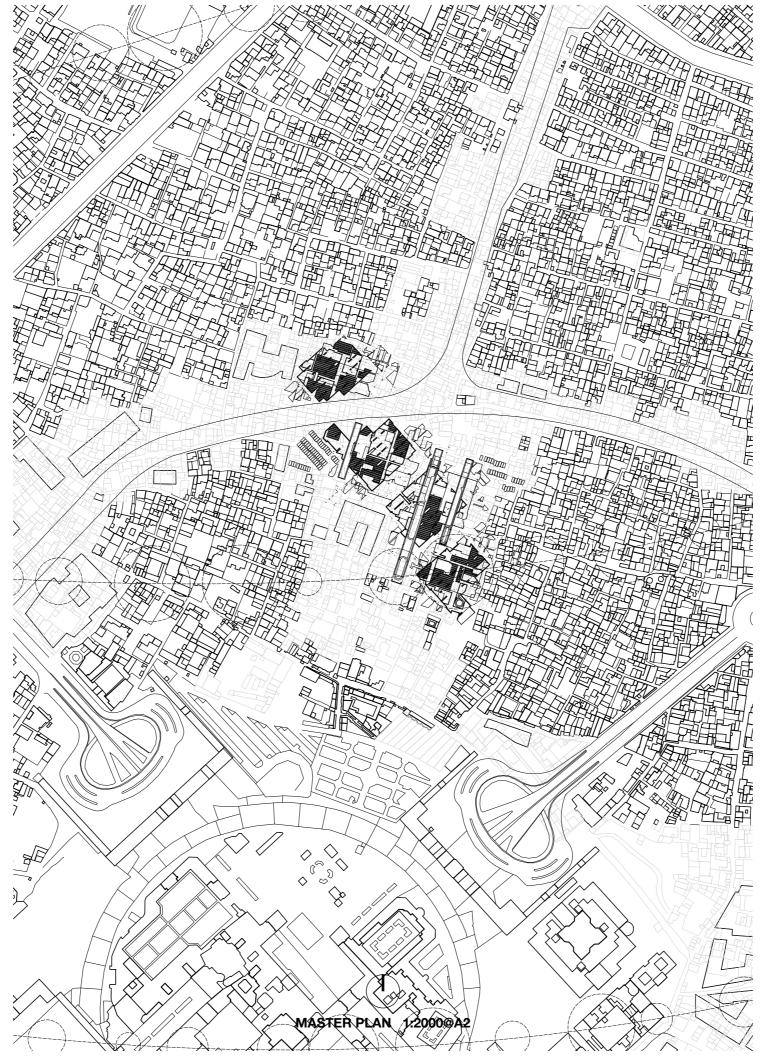
THE ACCUMULATED ELEVATION

Timber columns are collected from the demolished houses and become the landspace that connects the interventional and the traditional fabric.

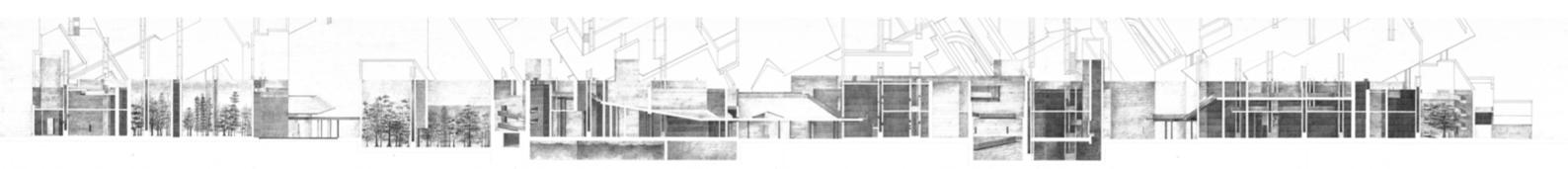
THE TRANSGRESSION AS ENCOUNTERING

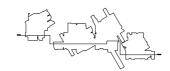
Addressing their autonomies and transitional situation, the interruptions transgress the boundaries in or of the void, and define alternative thickness of the borders and the conditions of the territories.





NON-HIERARCHICAL SEQUENCES

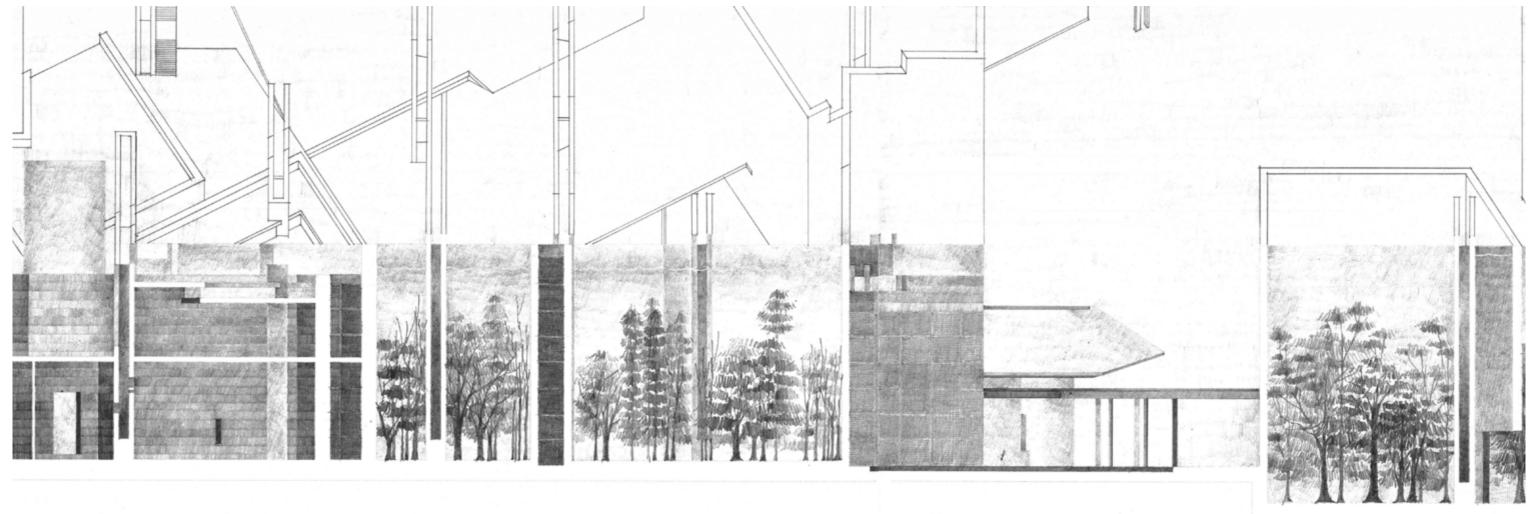




LONGITUDINAL SECTION 1:200@A4*6

The discontinuity defined by the complexity of volumetric fabric and interruptions provides multiple opportunities for various understandings of the space as a place for events.

DISCONTINUOUS COHERENCE

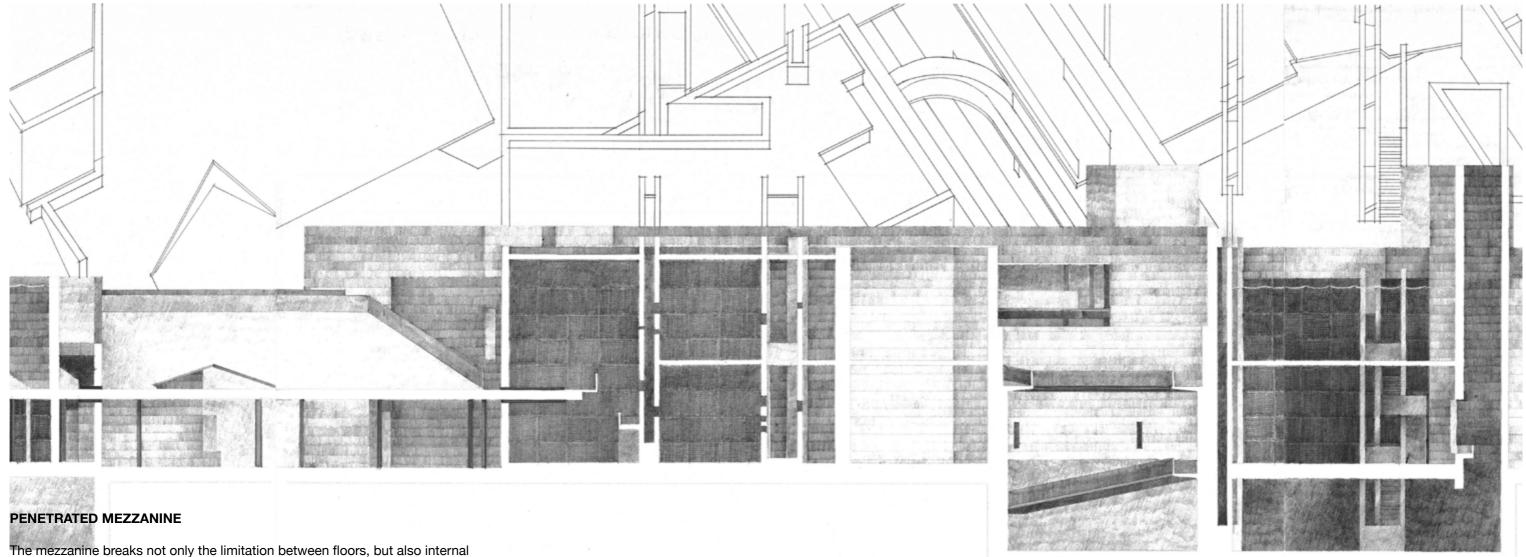


SPLITED UP GARDEN

Trees maintain the momeries of history in the void. Fragementation of the gardens indicates the seemingly environmental connection and also the realistic separation from the infrustracture.



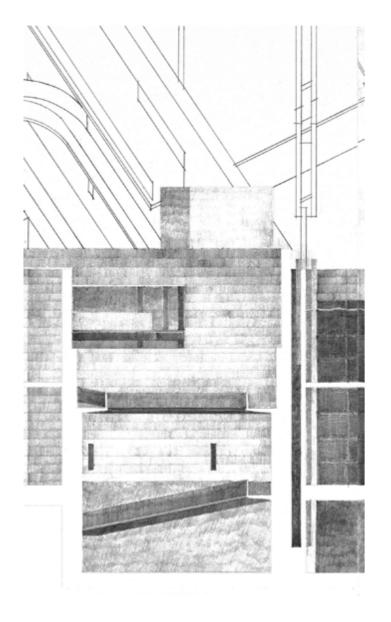
DISCONTINUOUS COHERENCE

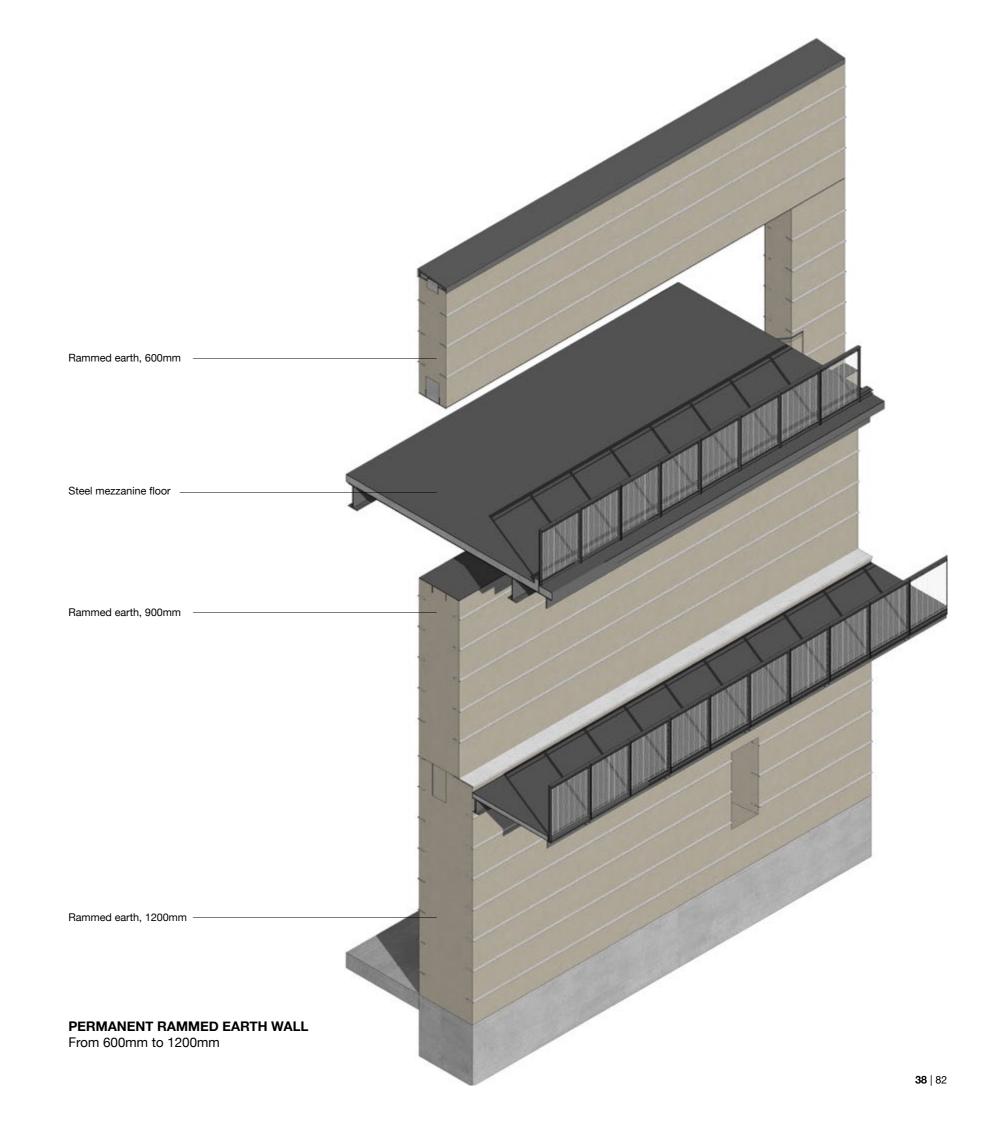


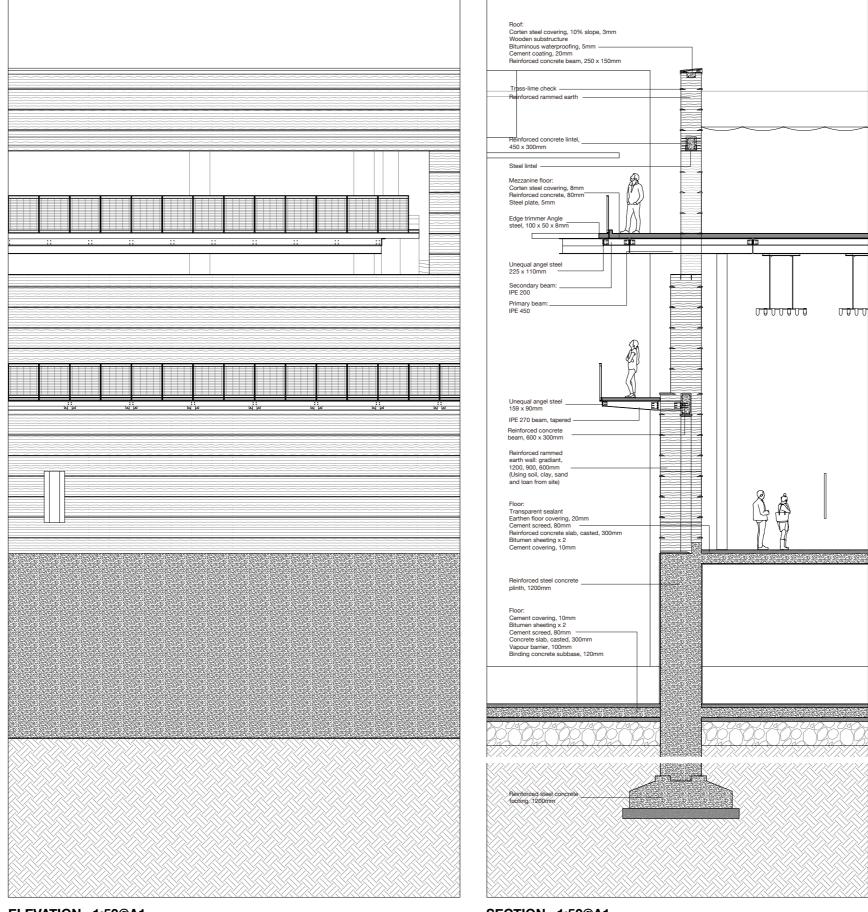
The mezzanine breaks not only the limitation between floors, but also internal and external enclosures. The fragmentary relation demonstrates contradicted situation embedded in the void as well as the intervention itself.



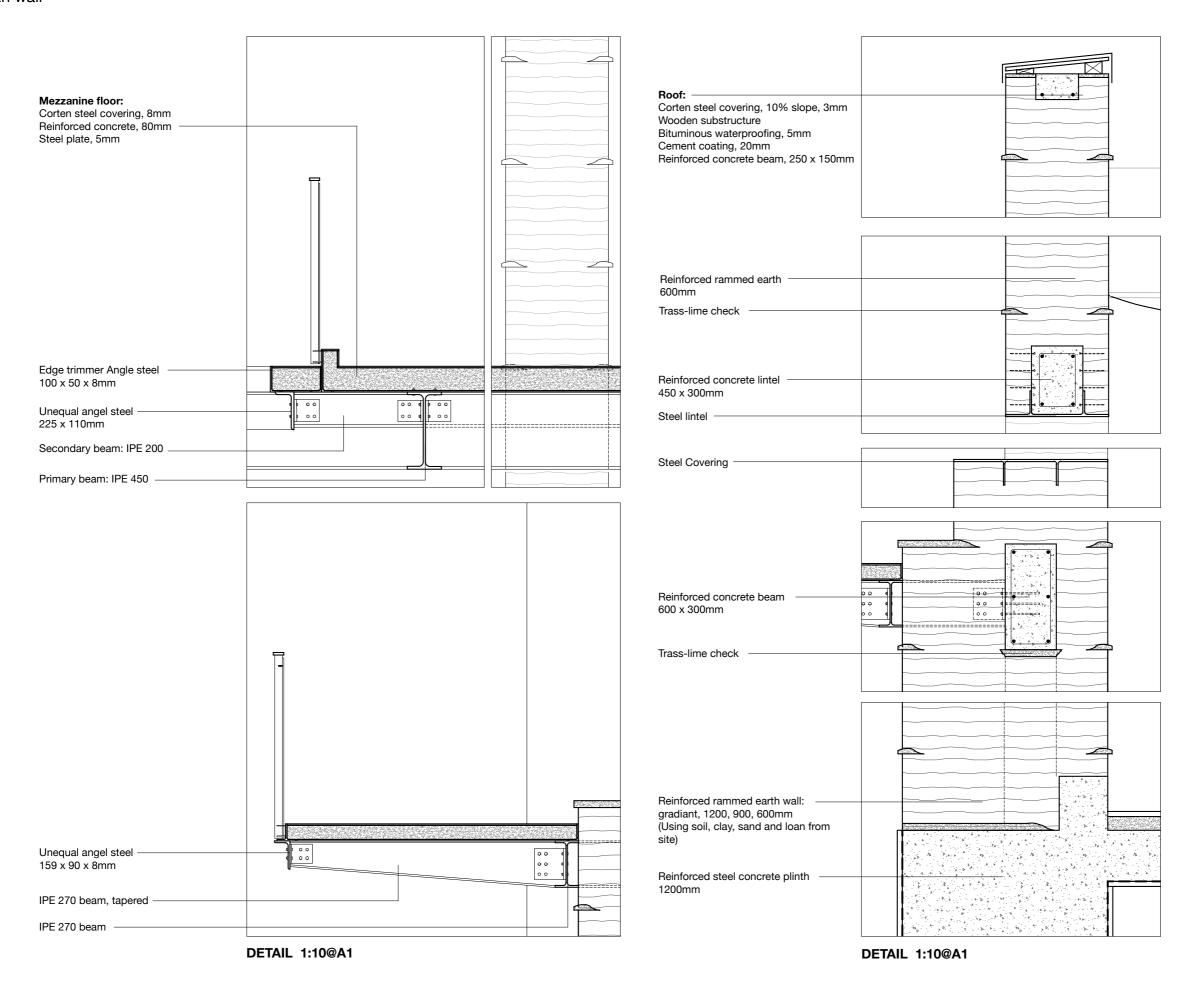
SPATIAL PENETRATION







ELEVATION 1:50@A1 SECTION 1:50@A1





EVENTUALIZATION

INDEX FOR THE EVENTS

SCENARIO









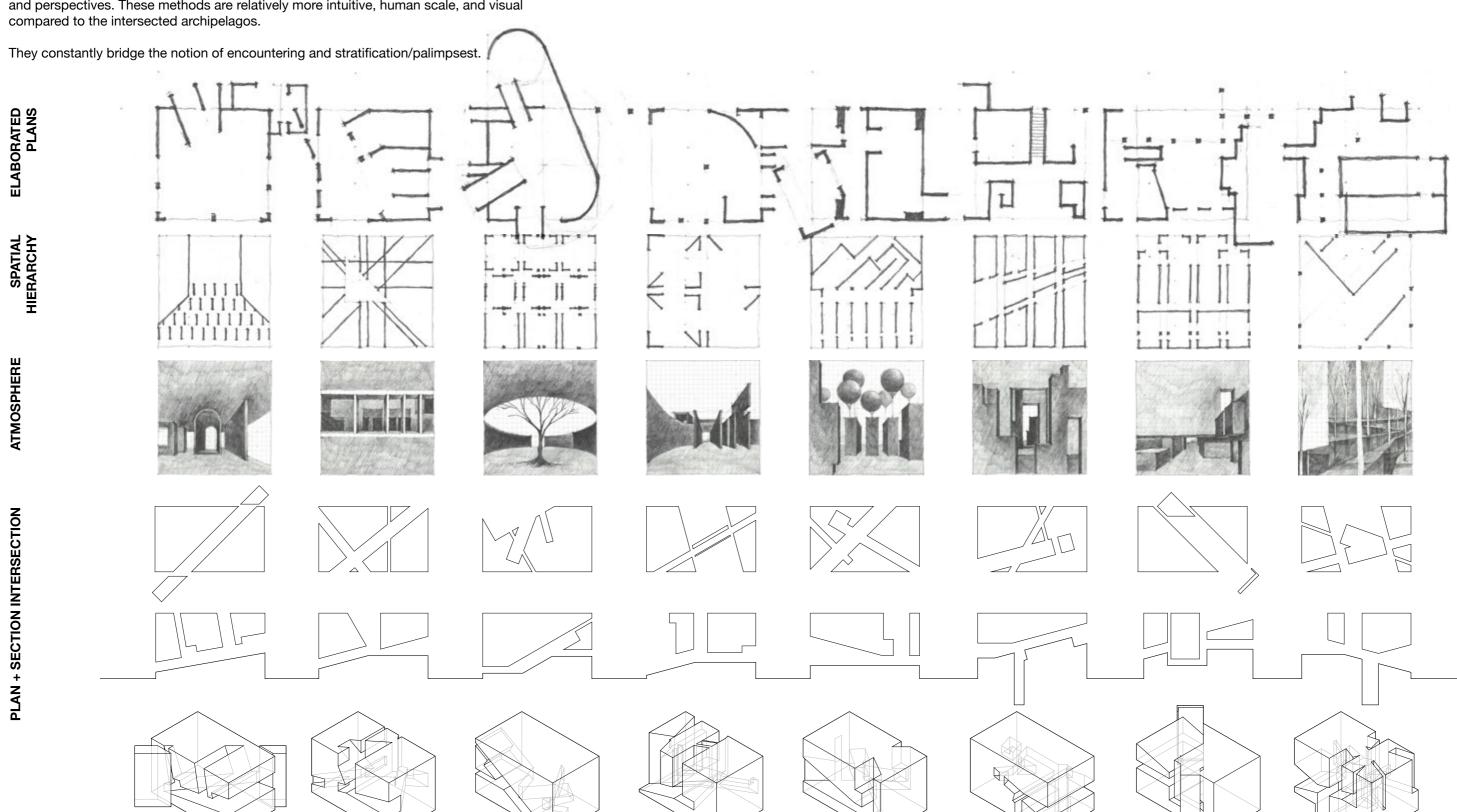








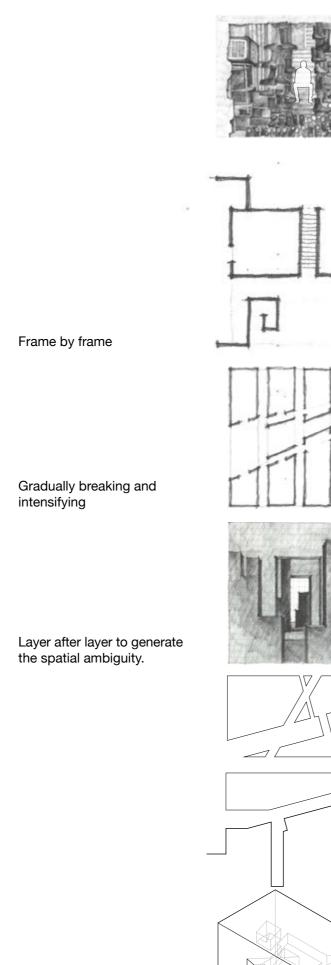
Reason for these translation is to understand the scenarios in different approaches and perspectives. These methods are relatively more intuitive, human scale, and visual compared to the intersected archipelagos.

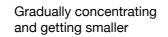


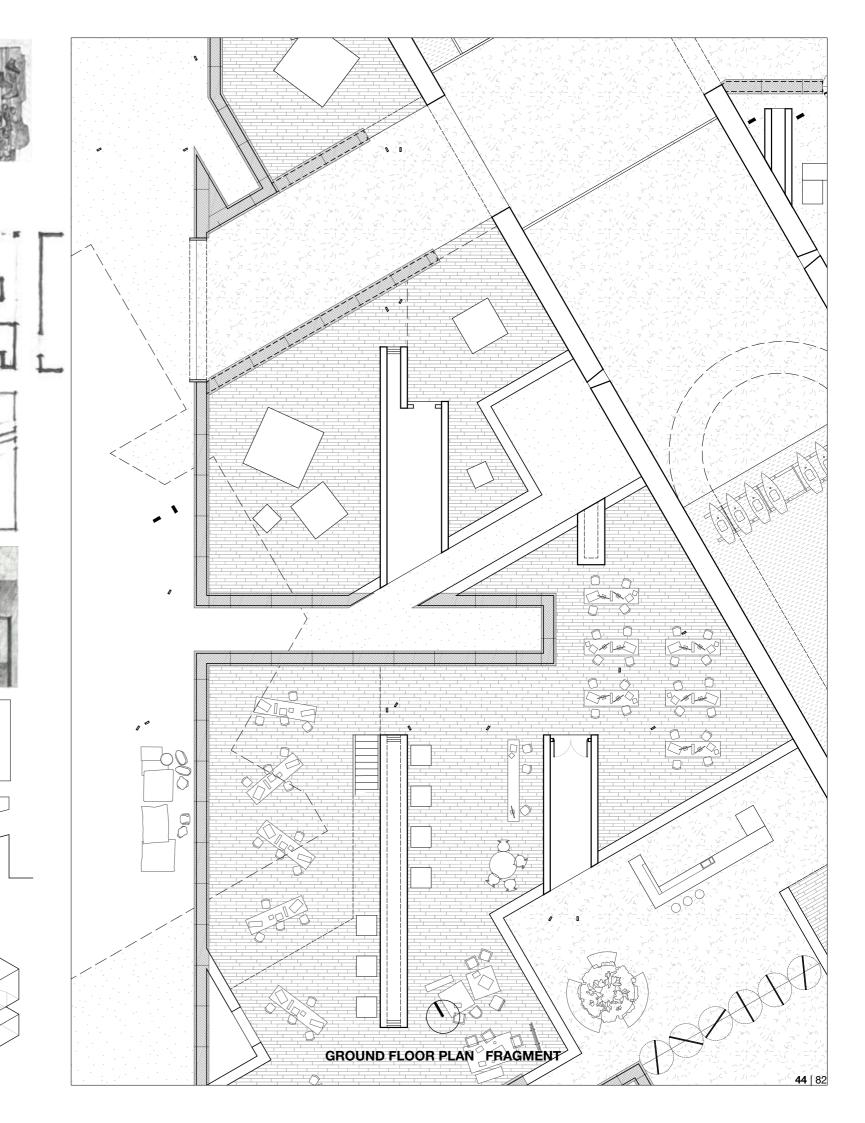
EVENT

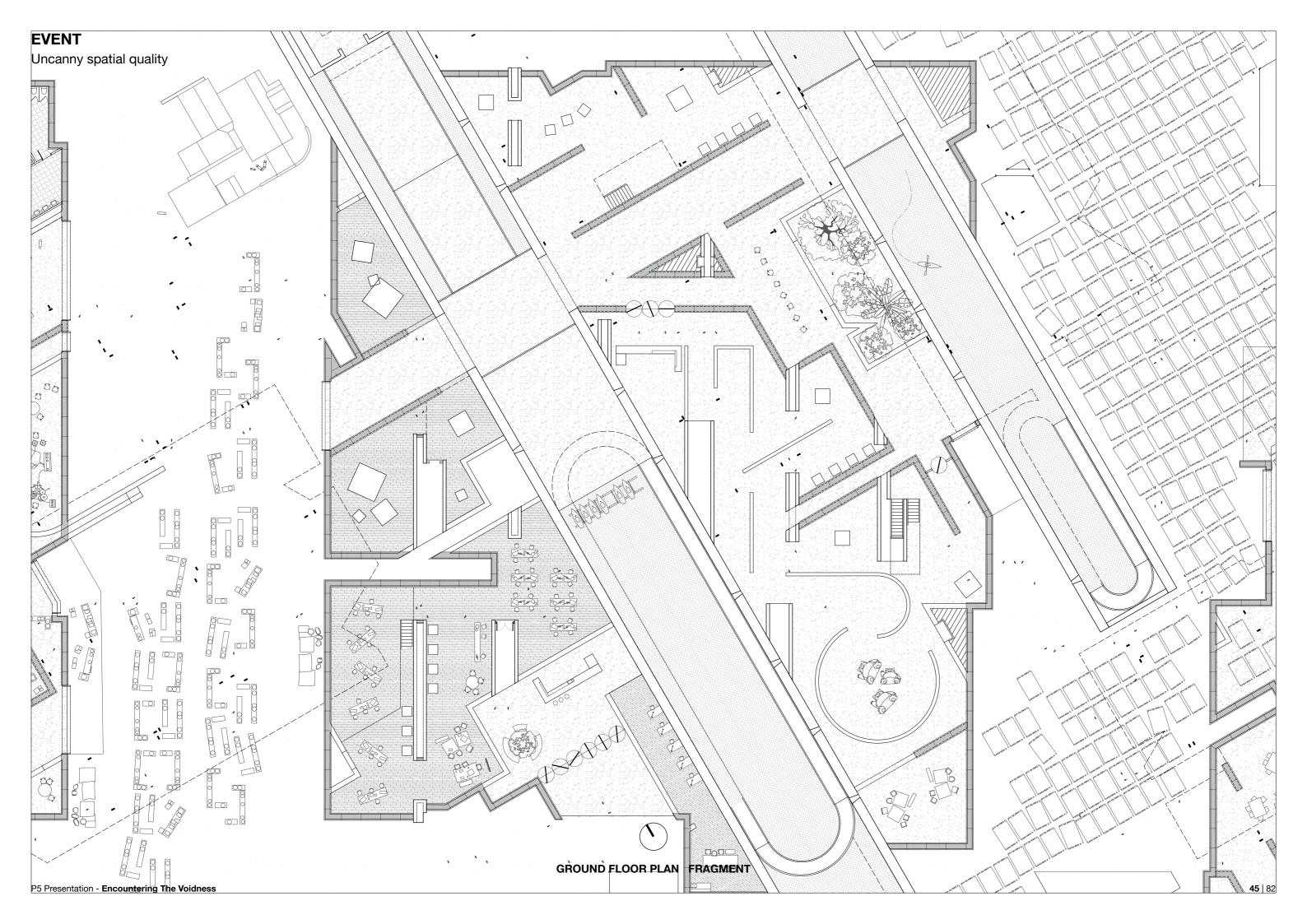
Uncanny spatial quality

What if the frames are not for concentrations, the loss of a focal point can be also understood as one will have many chances to find their own concentrations.











OLIGOTICONTo discover outside throught a narrow gap on the wall.

EVENT

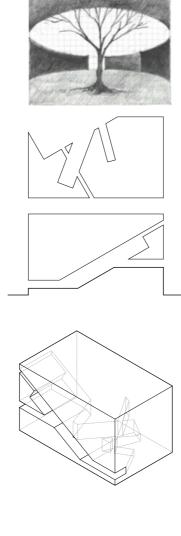
Spontaneous utilities

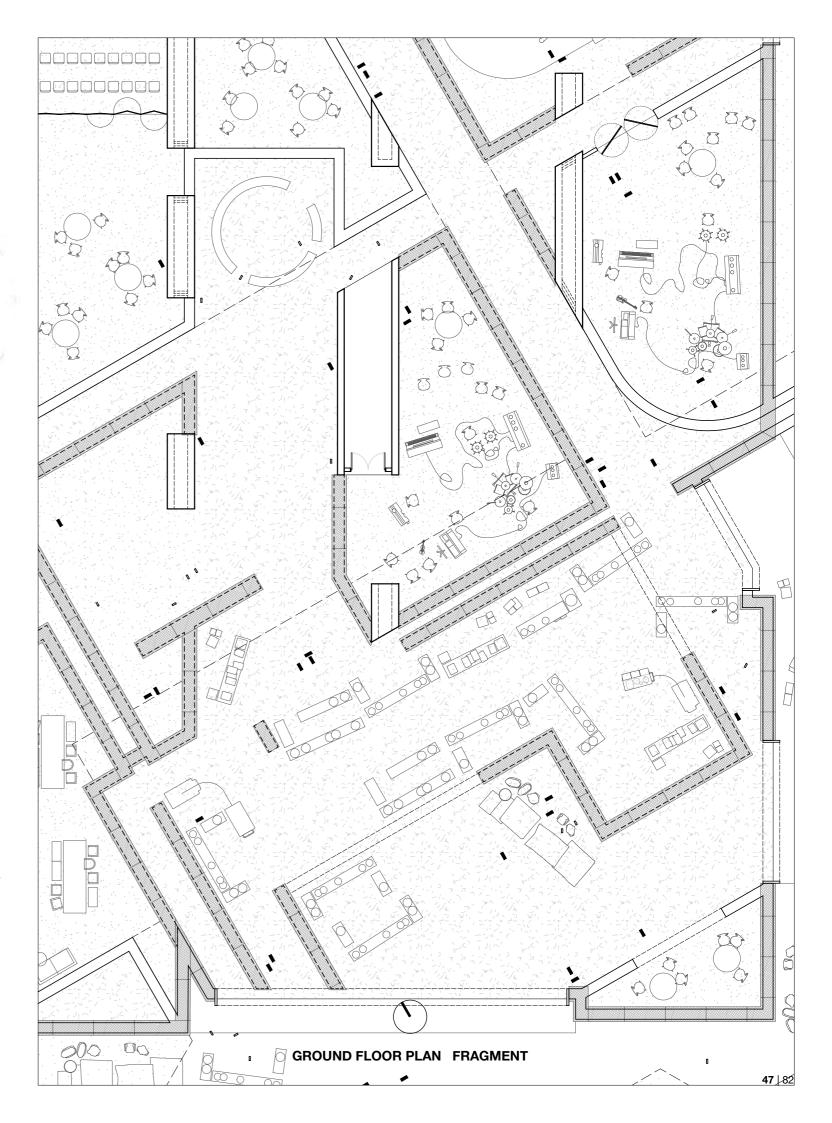
The intimate and collective connections between the people and the land altered since the urban voids were generated.

Enclosed but exended

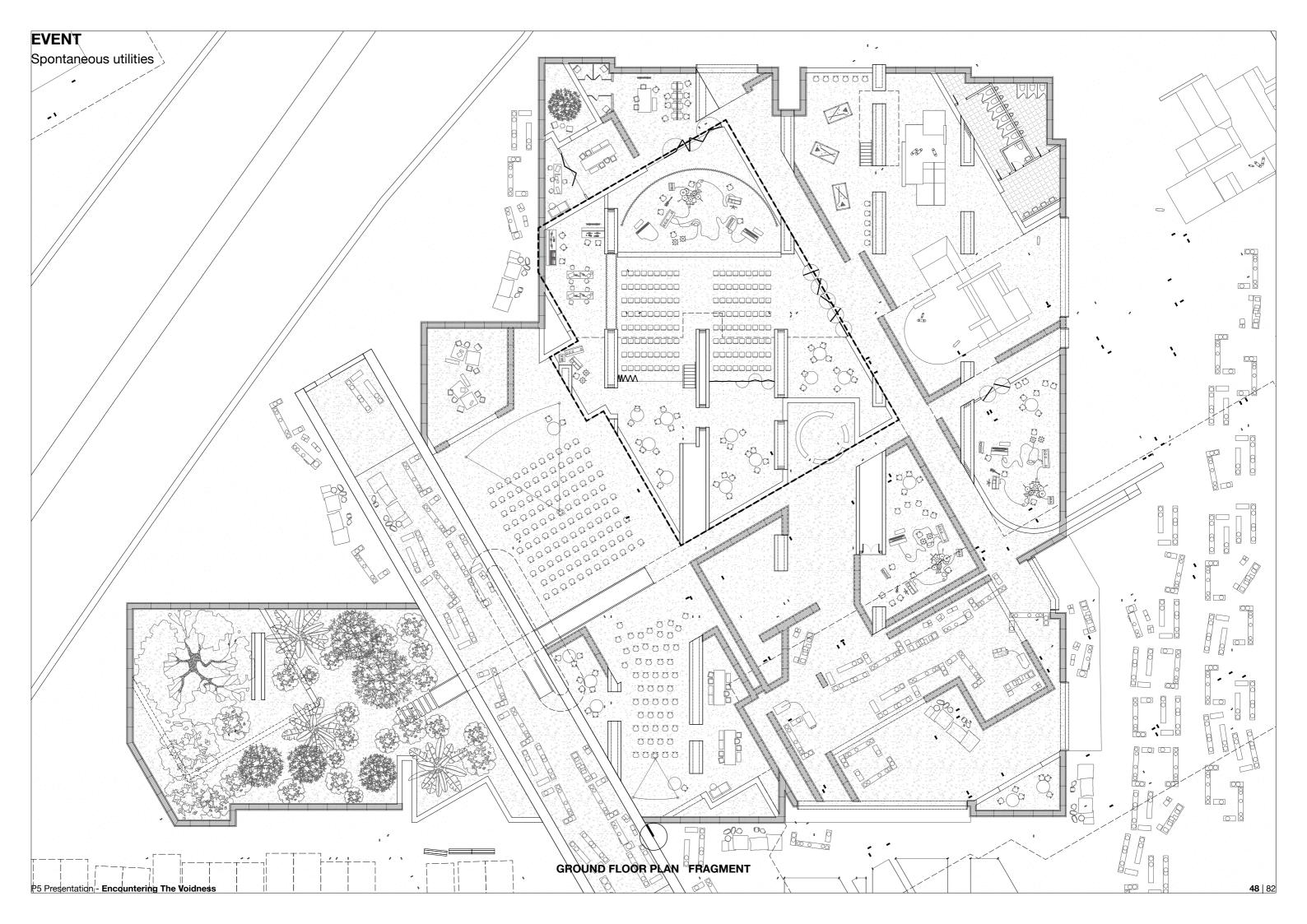
A superimposing structure that seemingmly breaks the old system and adds a reciprocal and interactive order on it

The periphery sees the place as a center



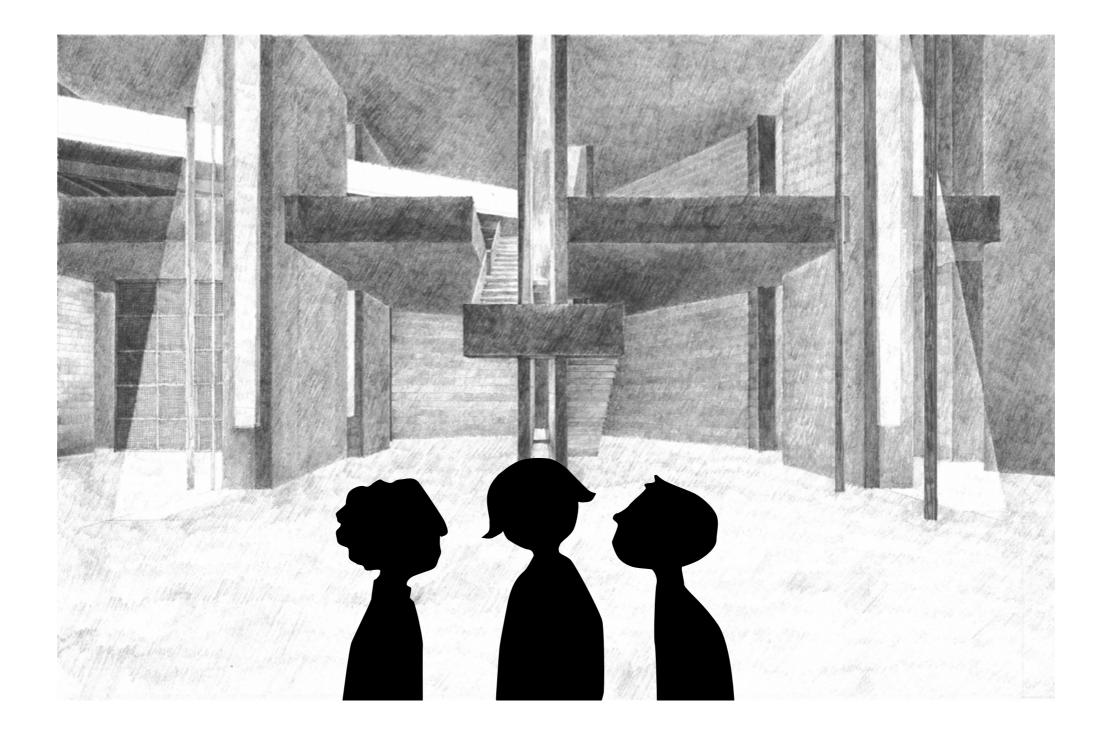


Disintegrated extensions from a venue



THE ALTERNATIVE SCENARIO

The penetrated mezzanine as the void

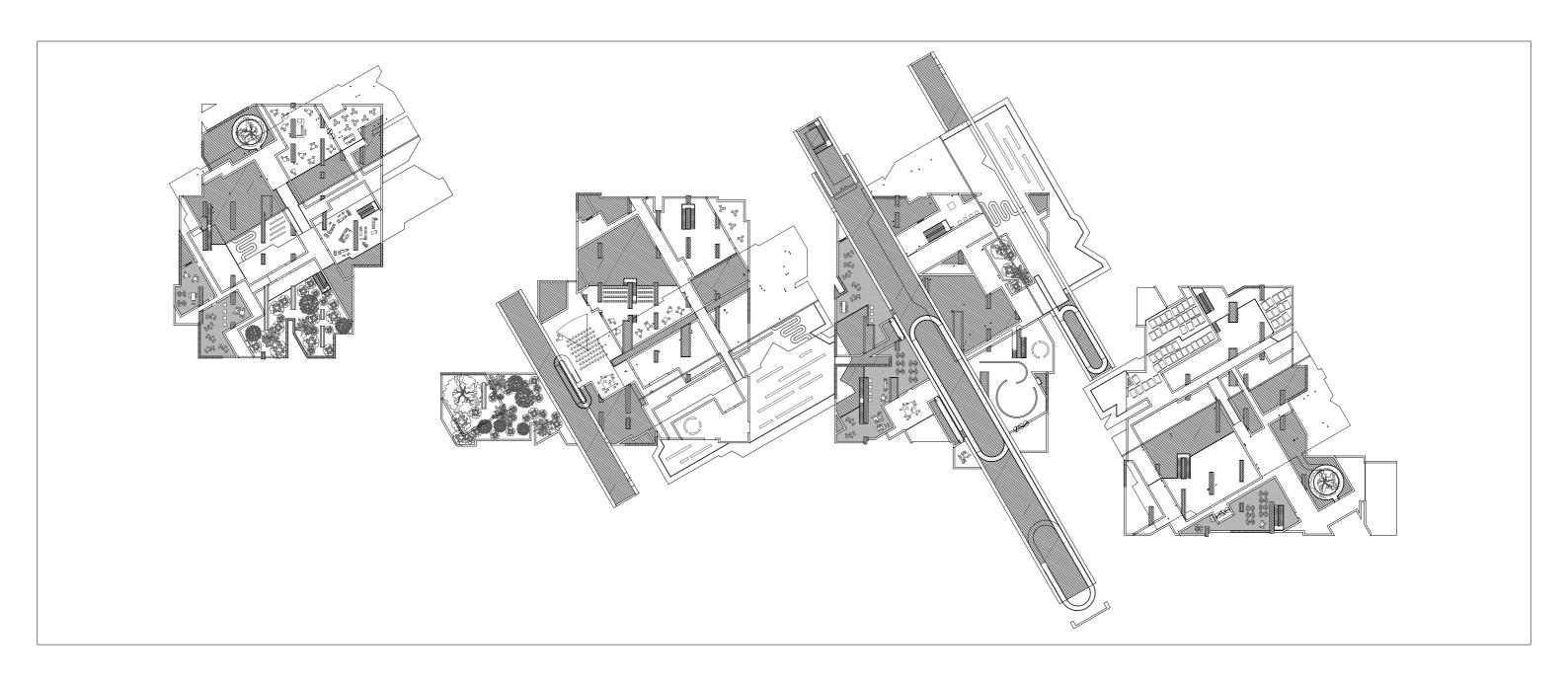


THE ADAPTIVE PLACE

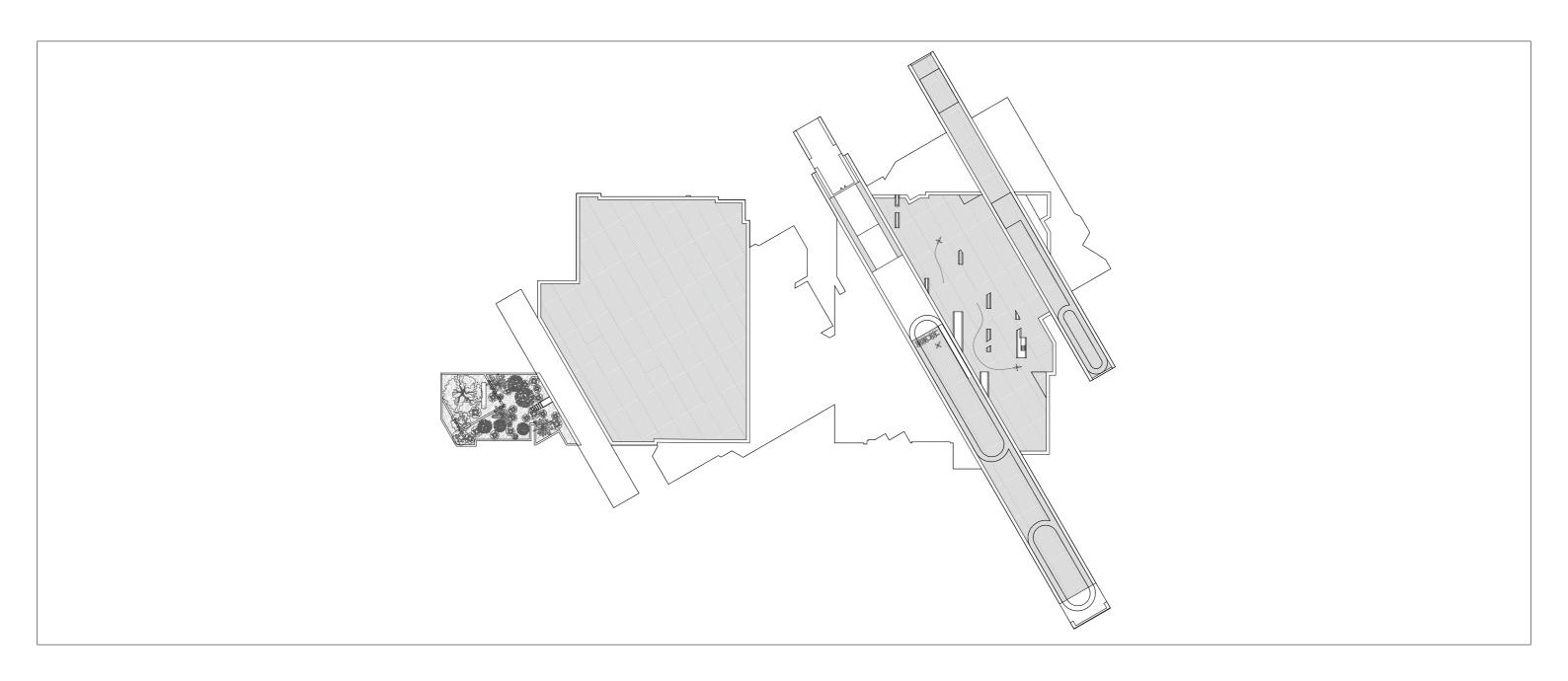
The concert area is also possible of being a poetic place where kids find their own paradise.





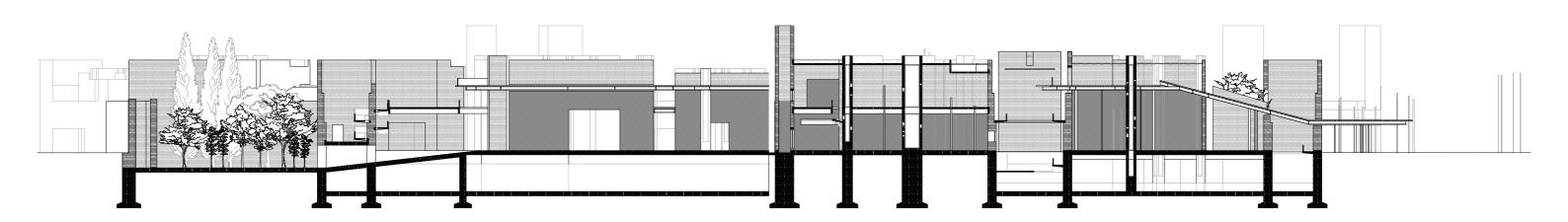






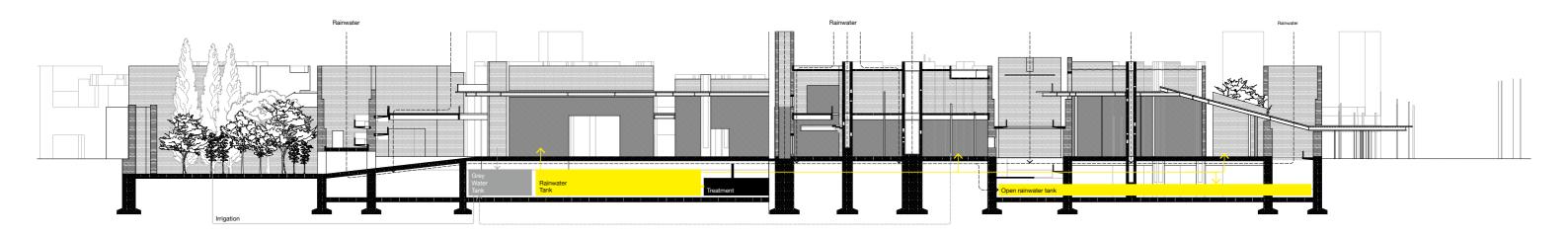


-1ST FLOOR PLAN 1:200@A3*14



SECTION 1:100@A3*7

RAINWATER RECYCLE SYSTEM

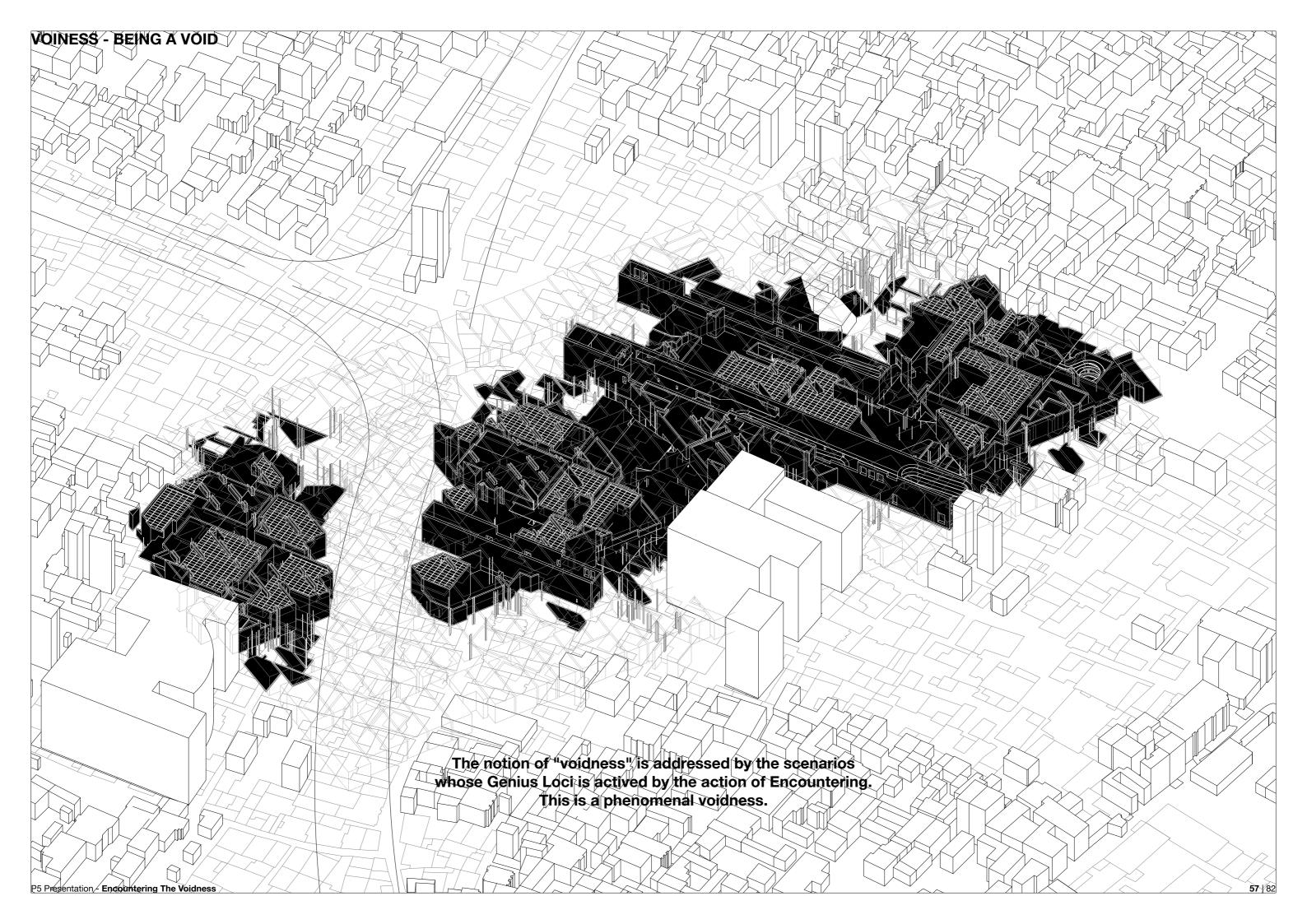


PARAMETER OF THE RAINWATER TANK:

Available roof area: 2,351 m²
Annual Rainfall in Mashhad: 255.7 mm
Rainwater tank capacity: 22,844 L

Rainwater tank area: 3,255 m²
Rainwater tank floor height: 8.7 m

PROCESS



MATERIALIZATION OF PROCESSING



RAMMED EARTH BLOCK

Size: 210 x 120 x 60 mm Clay: Sand = 8: 3 5 layers



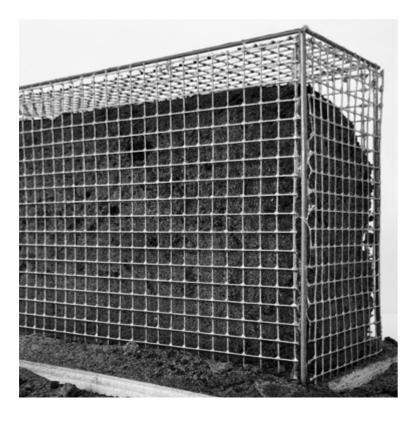
Heat and evaporationTo simulate the warm and arid climate in Mashhad.



Wind and friction
To simulate the wind erosion during its lifespan.



Water and washing
To simulate the rainy weather happend to the intervention.







HEAT AND EVAPORATION WIND AND FRICTION WATER AND WASHING

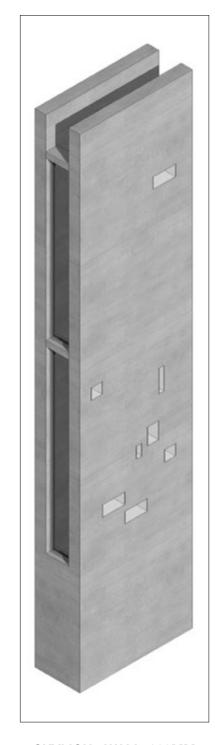


Wire mesh as the enclosed material Steel column as structure

Wire mesh and its frames as the enclosed material and strucure

Wire mesh as the structure

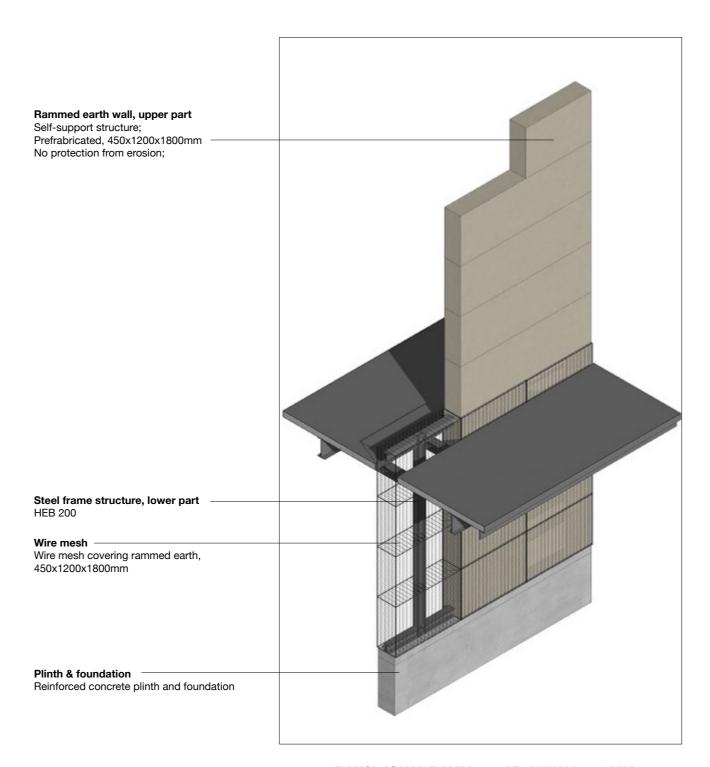
LITERAL VOIDNESS



SKYLIGHT WALL, 300MM Vertical void

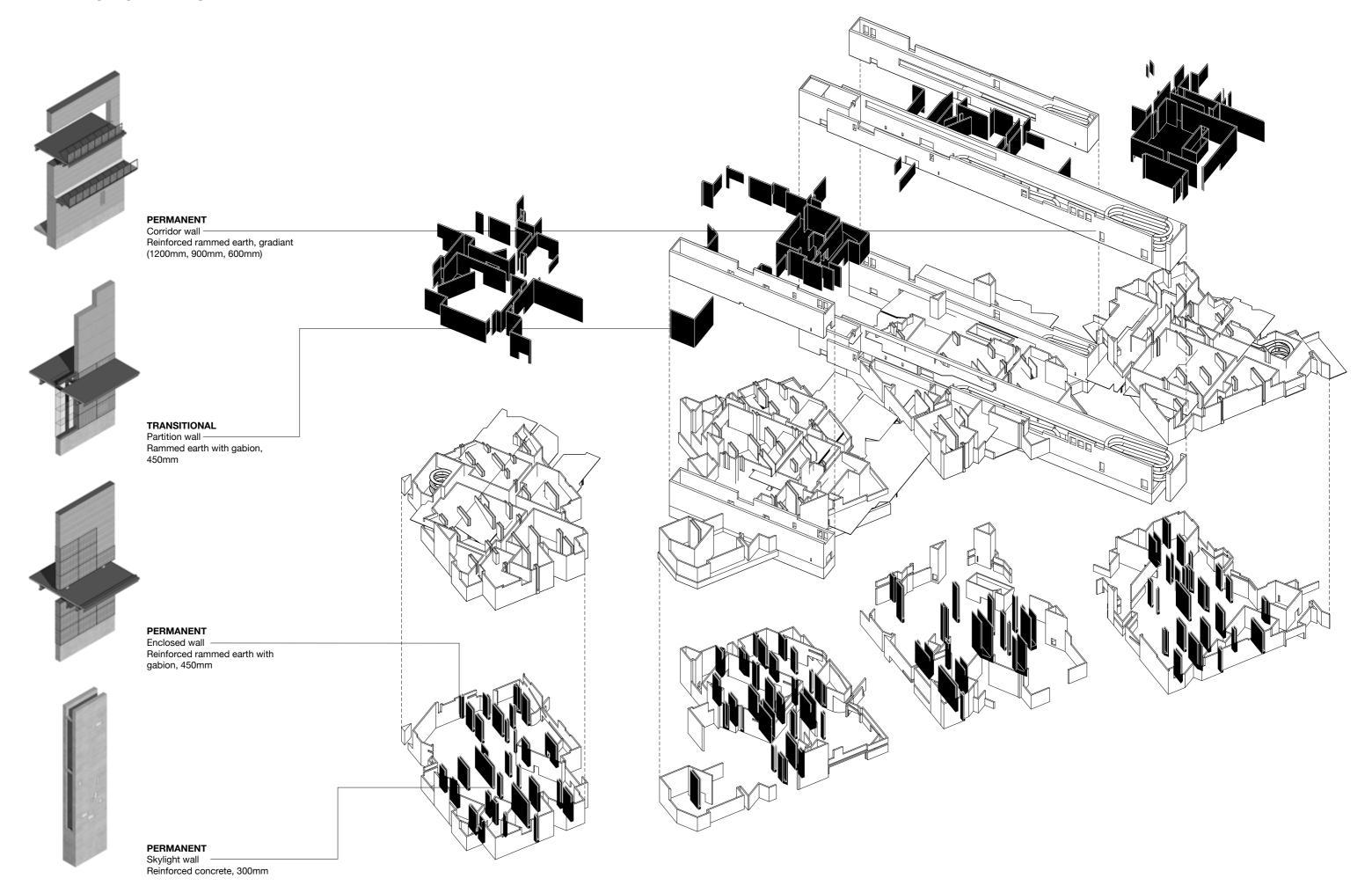


PERMANENT RAMMED EARTH WALL, 450MM Horrizontal void



TRANSITIONAL RAMMED EARTH WALL, 450MMDecay to be a void

DEFINITION OF WALLS



THE ALTERNATIVE SCENARIO

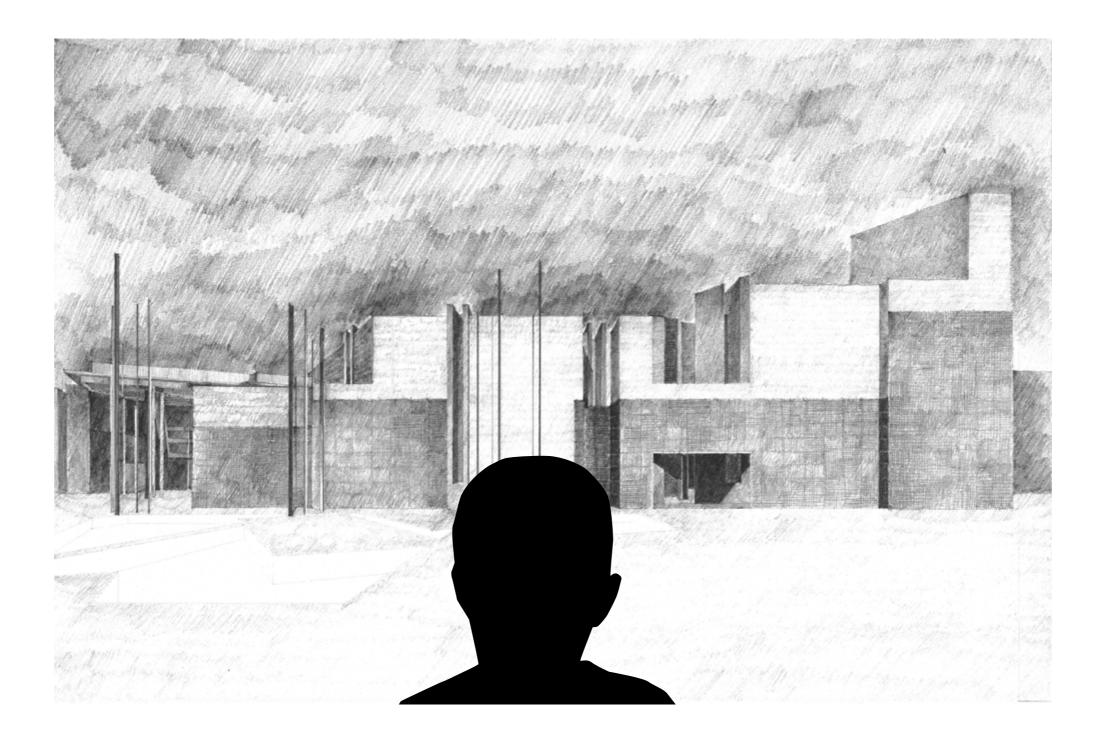
Windows on the skylight wall creates the voids in a void



SKYLIGHT WALLSunlight from the skylight wall guides the direction towards sky and the direction towards the urban grid pattern.

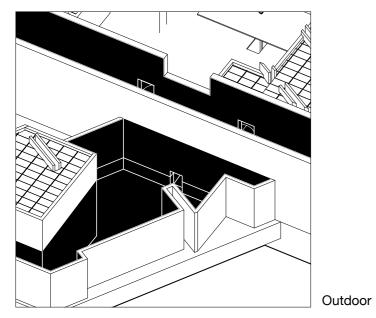
THE ALTERNATIVE SCENARIO

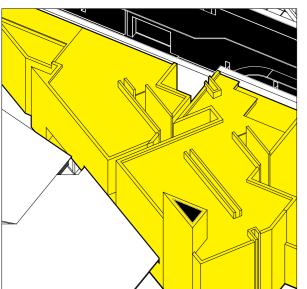
The intersected fabric creates the voids as the landscape



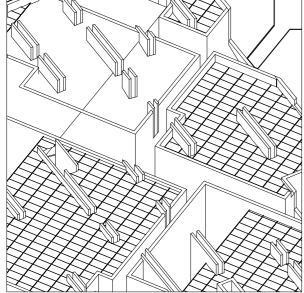
IF PASSES BYBackground of the void in the Shrine area becomes inhabitable and inclusive.

CLIMATE CONDITIONS

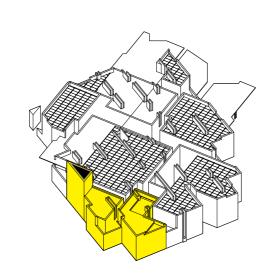


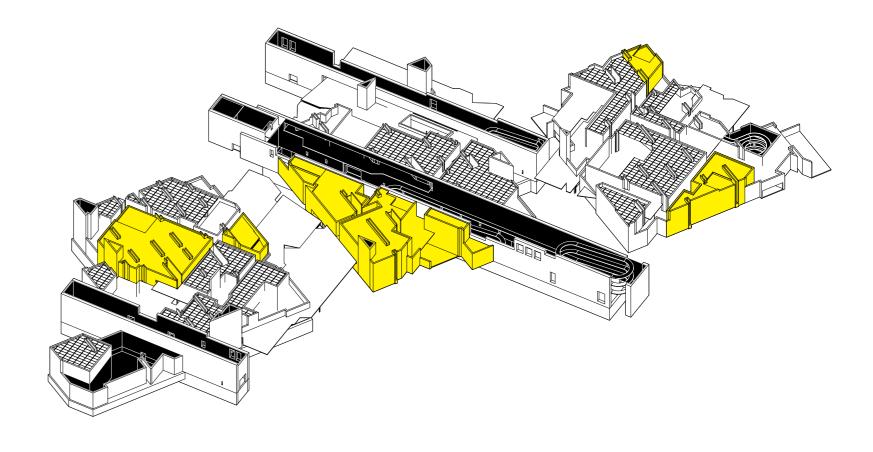




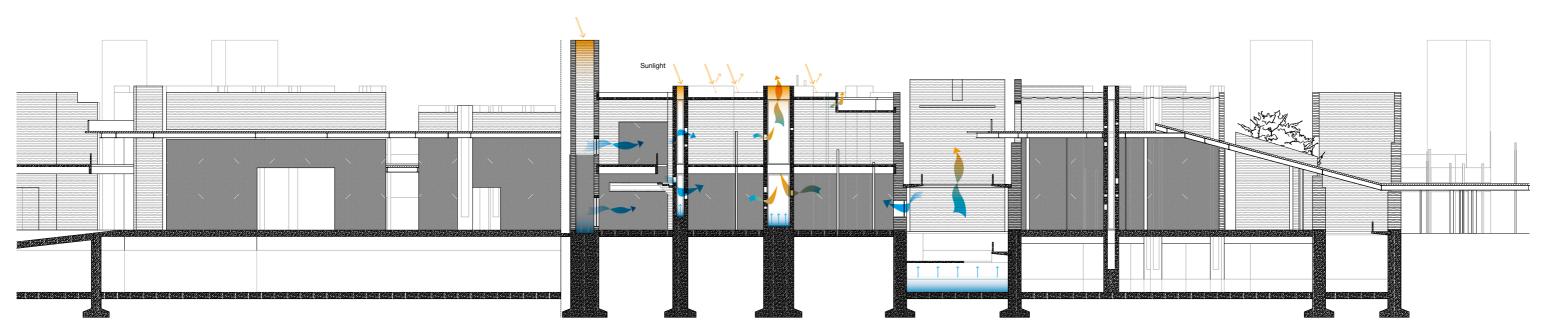




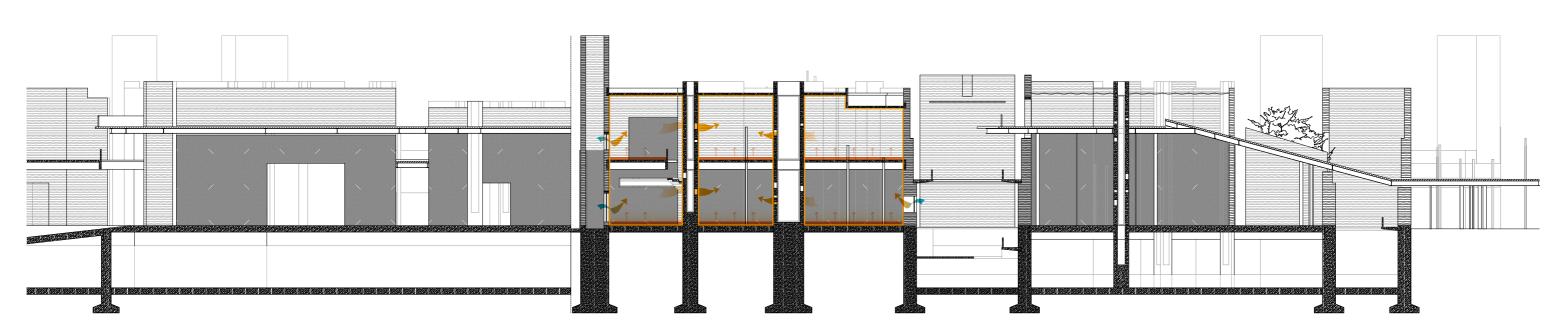




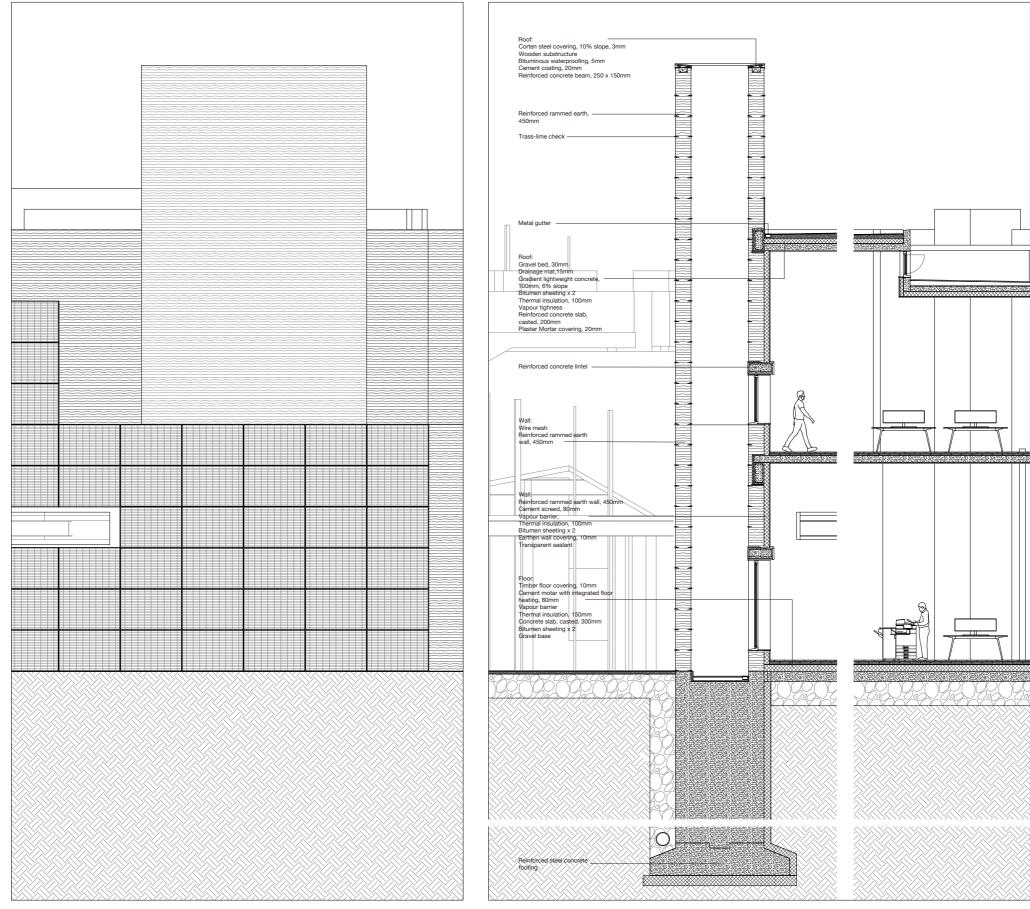
CLIMATIC ENVIRONMENT



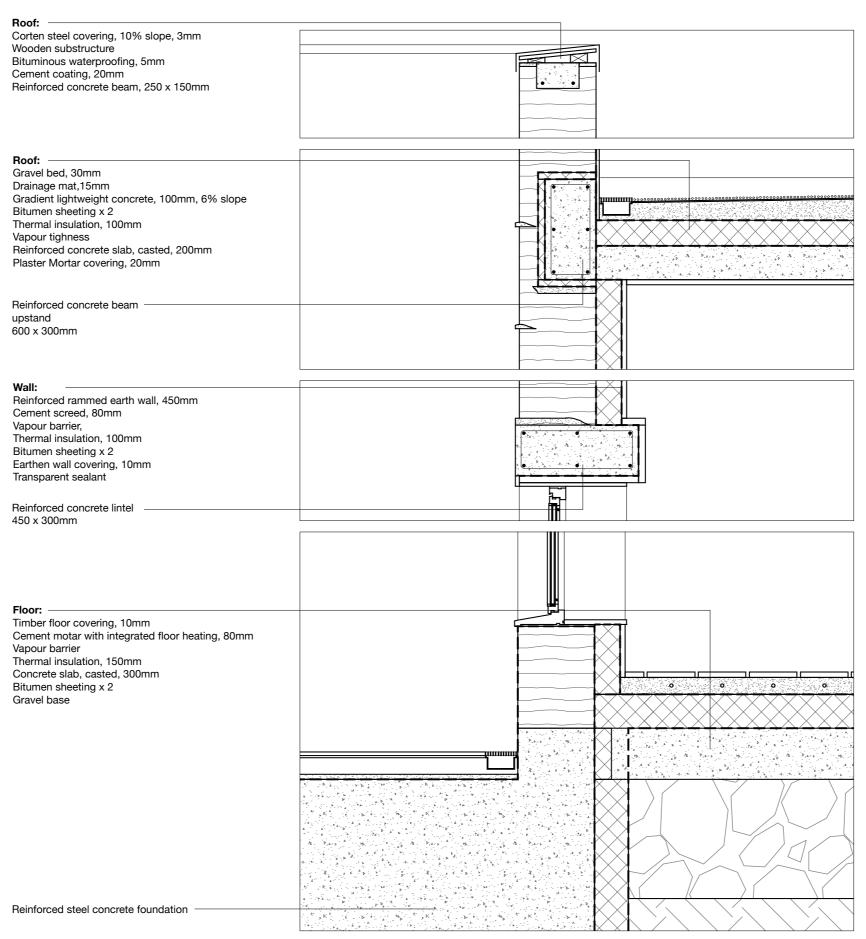
SUMMER



WINTER



ELEVATION 1:50@A1 SECTION 1:50@A1



DETAIL 1:10@A1

EXPLODED STRUCTURE

MEZZANIZE

Steel frame structure supports the load.

The skylight wall helps to improve the stiffness.

FABRIC

The permanent walls are made by reinforced rammed earth, 450mm, which are strong enought to support the floors and roof (permanent).

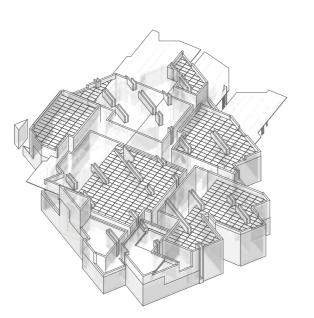
The transitional walls are actually supported by steel structure, which will remain when the rammed earth decays. The transitional **roofs** are to be confirm with their materials.

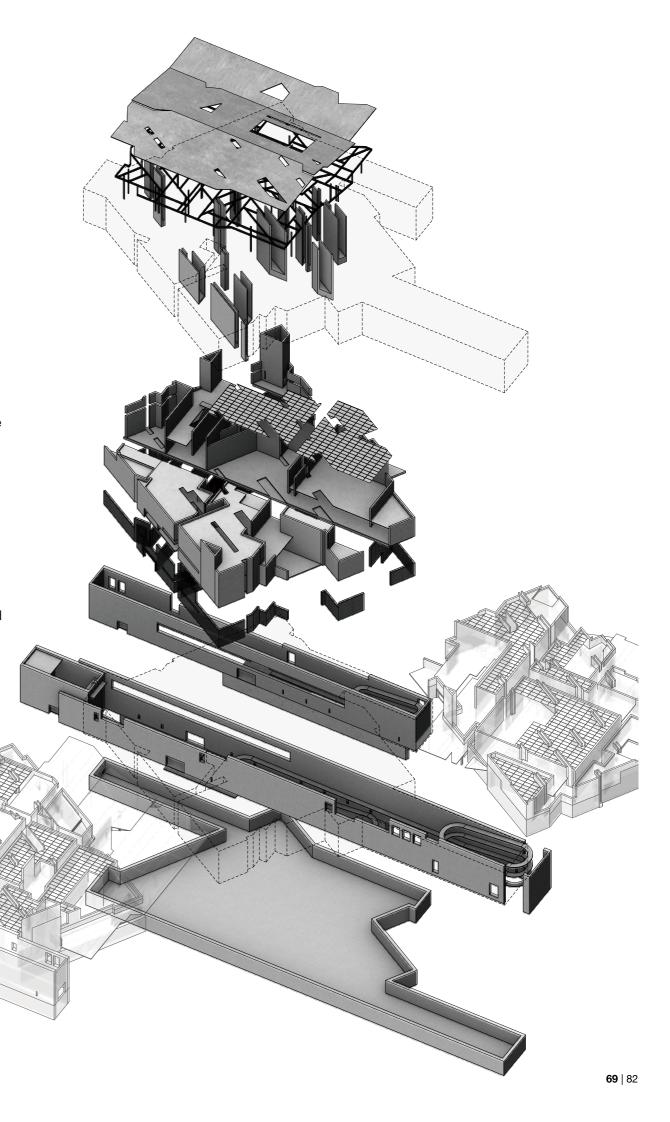
CORRIDORS

Reinforced rammed earth self-supported structure, 600mm-1200mm

WATER TANK

Reinforced concrete basement, 900mm



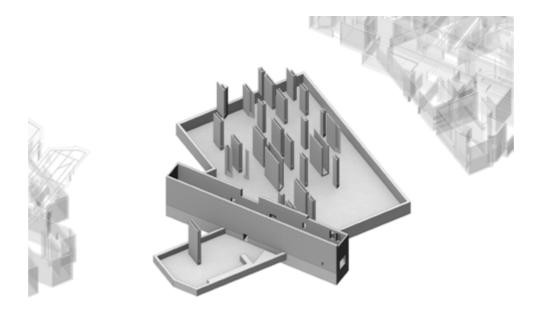


Construction procedure



WATER TANK Reinforced concrete basement, 900mm

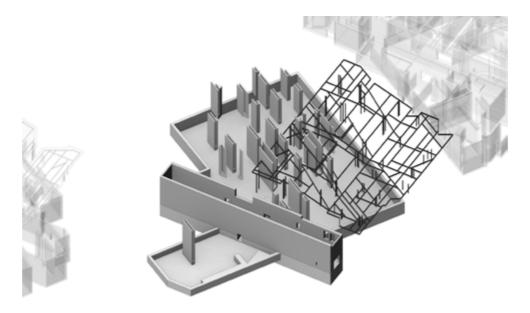
Water storage in the water circulation system. Landscape and aquatic sports place



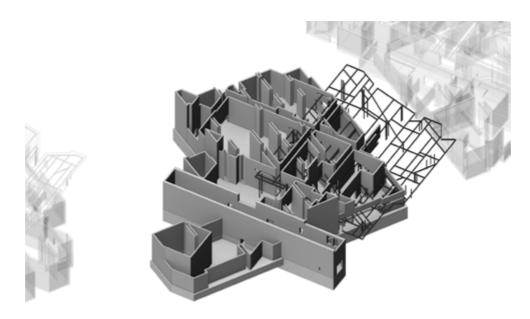
CORRIDOR Reinforced rammed earth, self-supported structure, 600mm-1200mm

SKYLIGHTWALL Reinforced steel concrete, self-supported structure, 300mm

Construction procedure



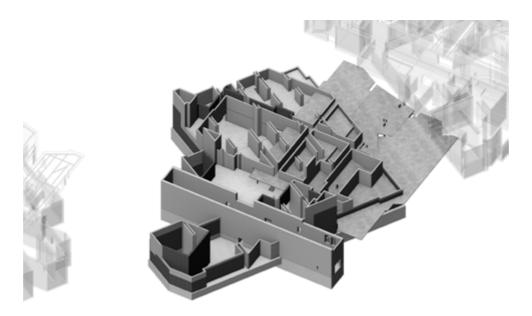
STEEL FRAME Structure supports the load from mezzanice, HEB 450 for beam, IPE 300 for column matrix



PERMANENT WALLS Reinforced rammed earth wall with gabion, self-support structure, 450mm

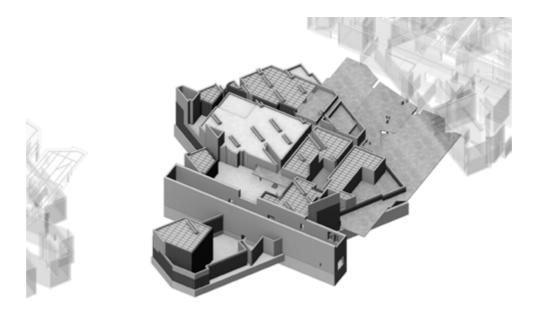
TRANSITIONAL WALLS Rammed earth wall with gabion, steel frame inside support, 450mm

Construction procedure



MEZZANINE Steel floor with sandstone/corten steel covering

FLOOR Reinforced concrete floor with sandstone/concrete tile

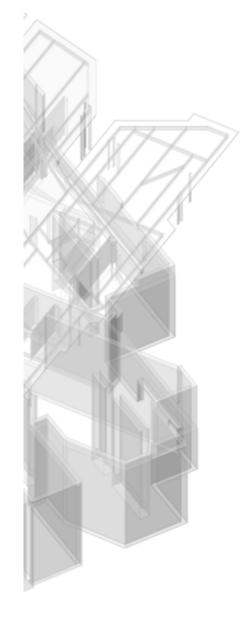


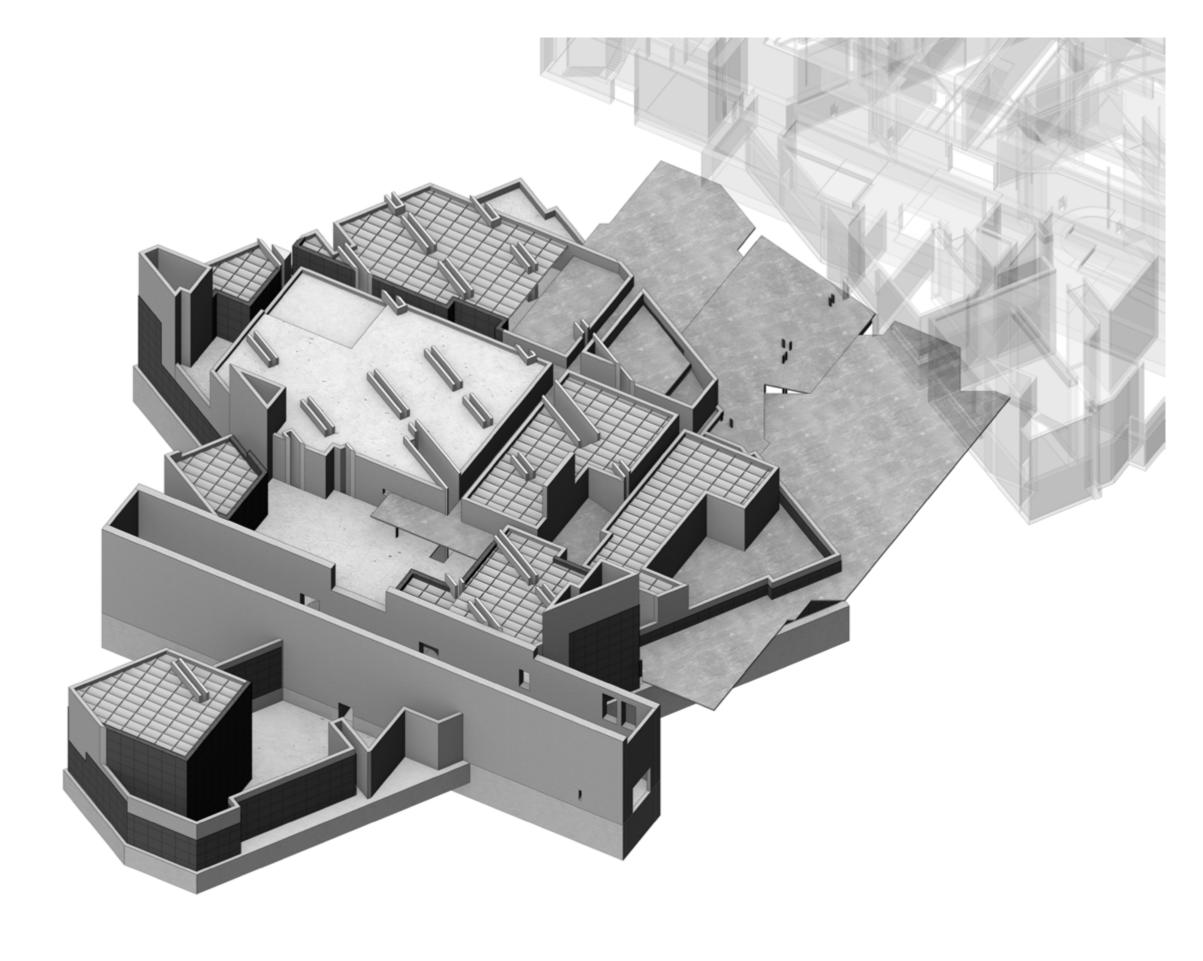
PERMANENT ROOF Reinforced concrete roof

TRANSITIONAL ROOF Flexible/retractable fabric

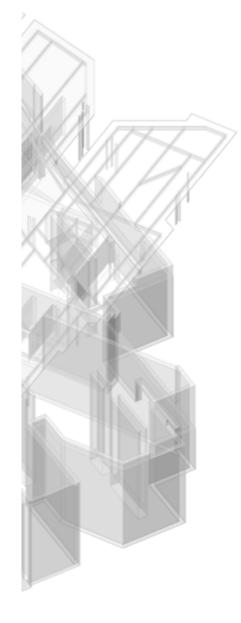


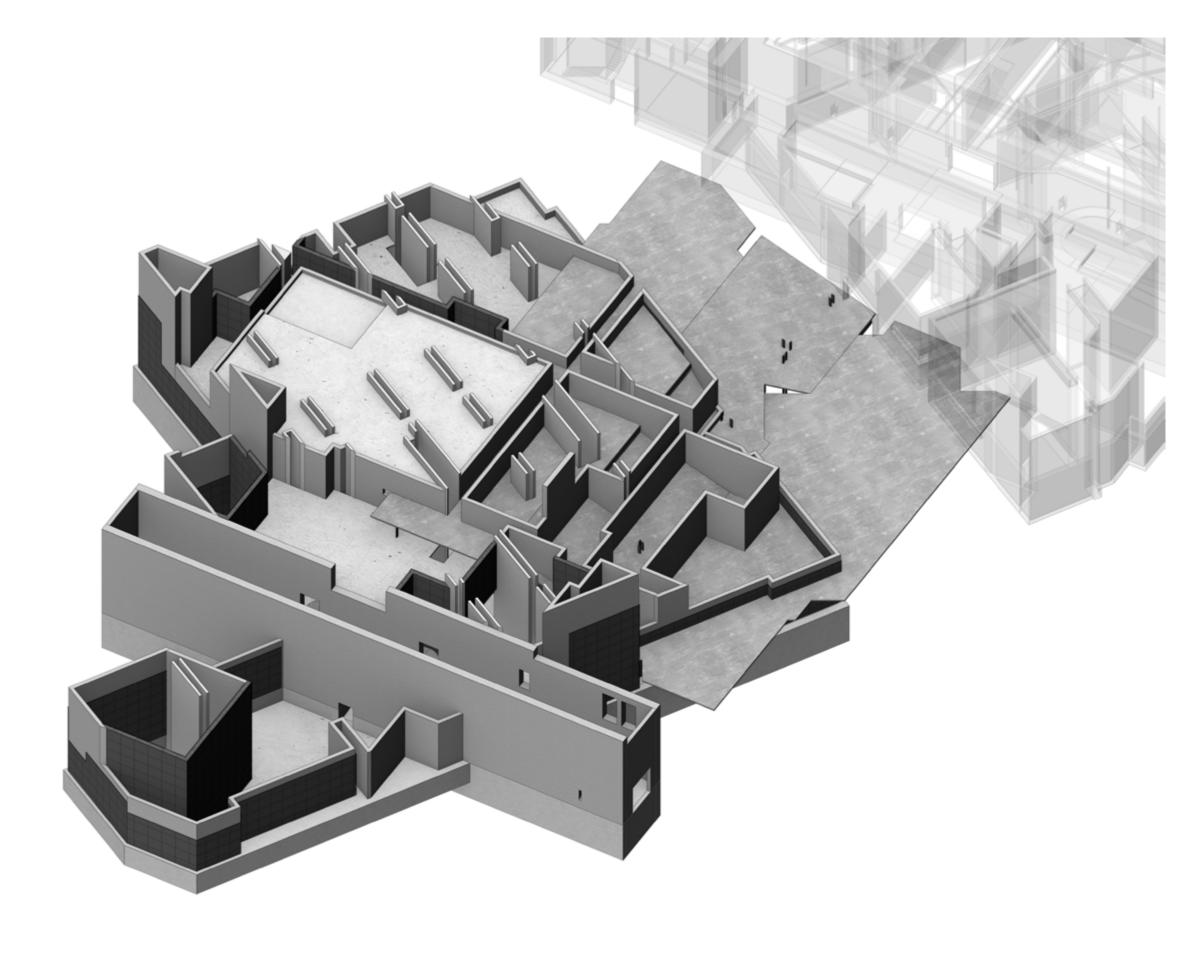
Decay procedure



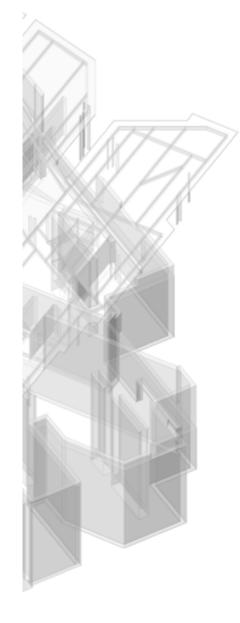


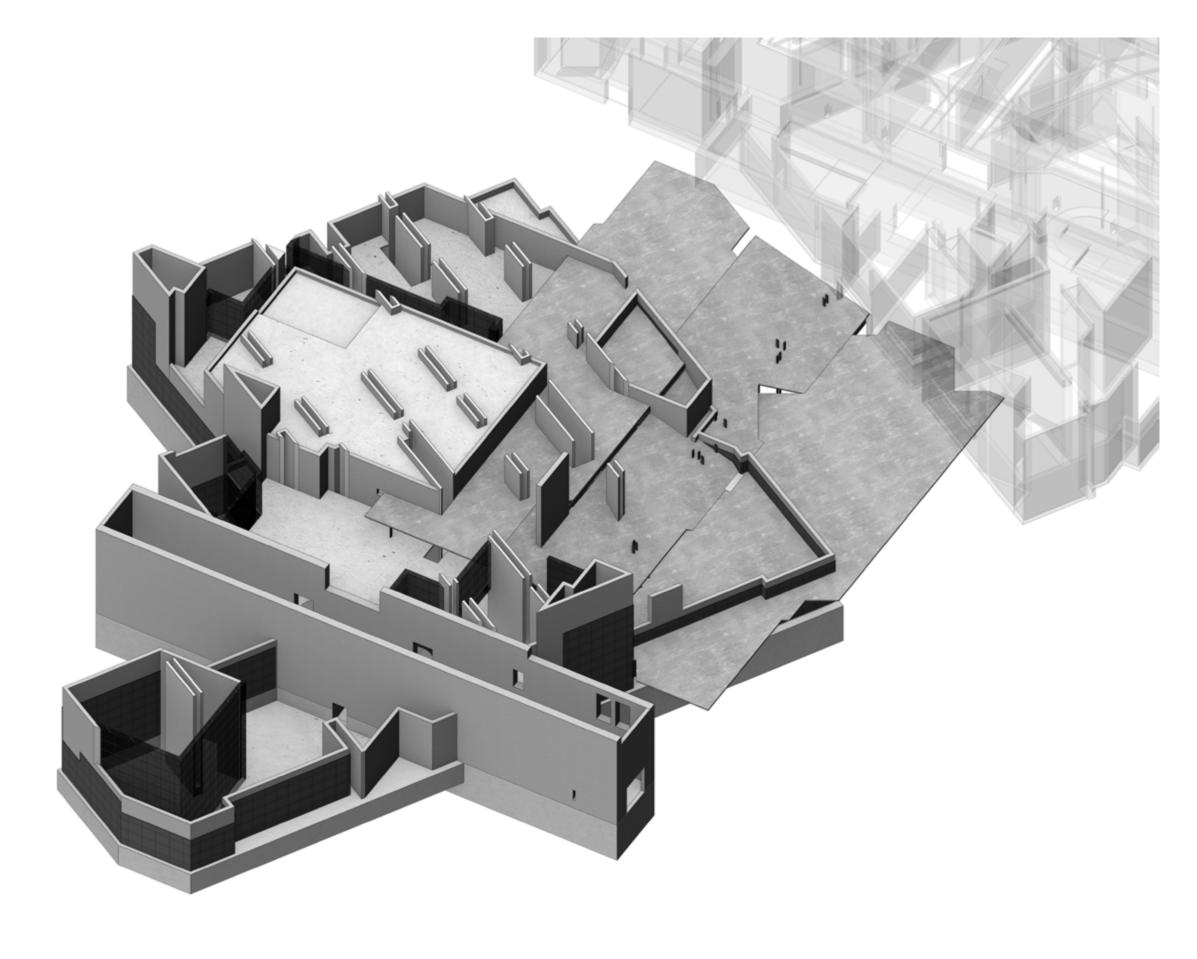
Decay procedure

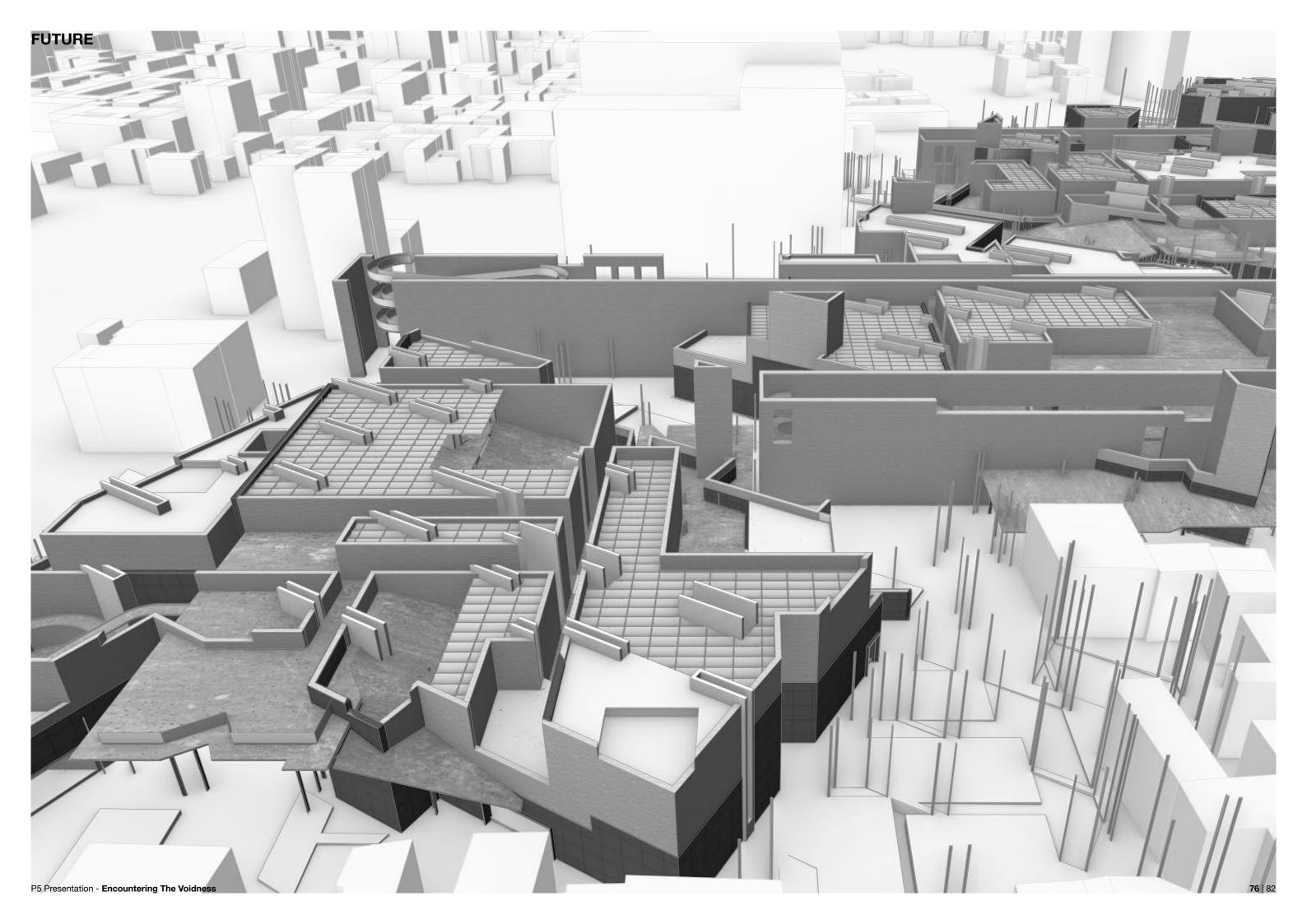


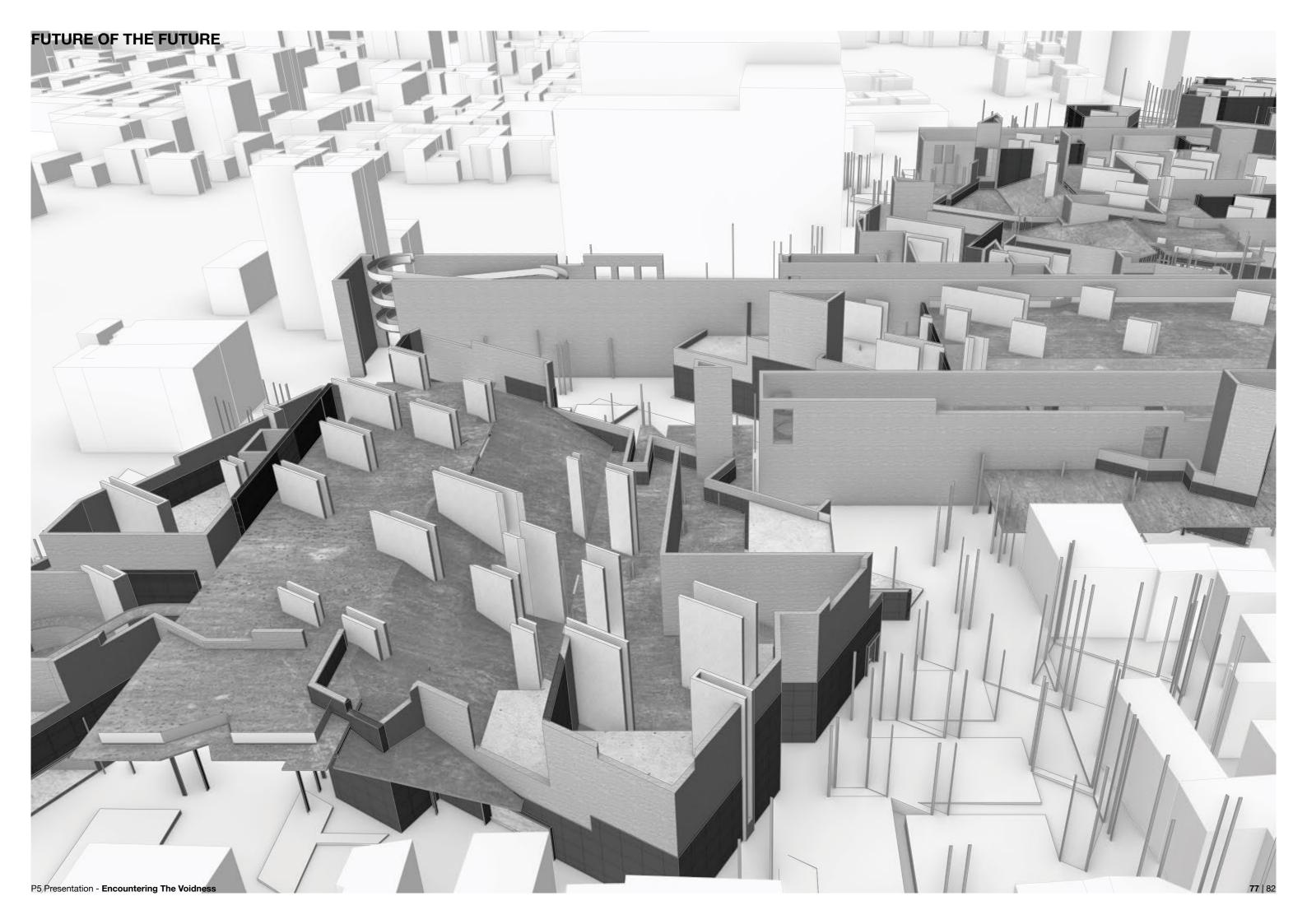


Decay procedure









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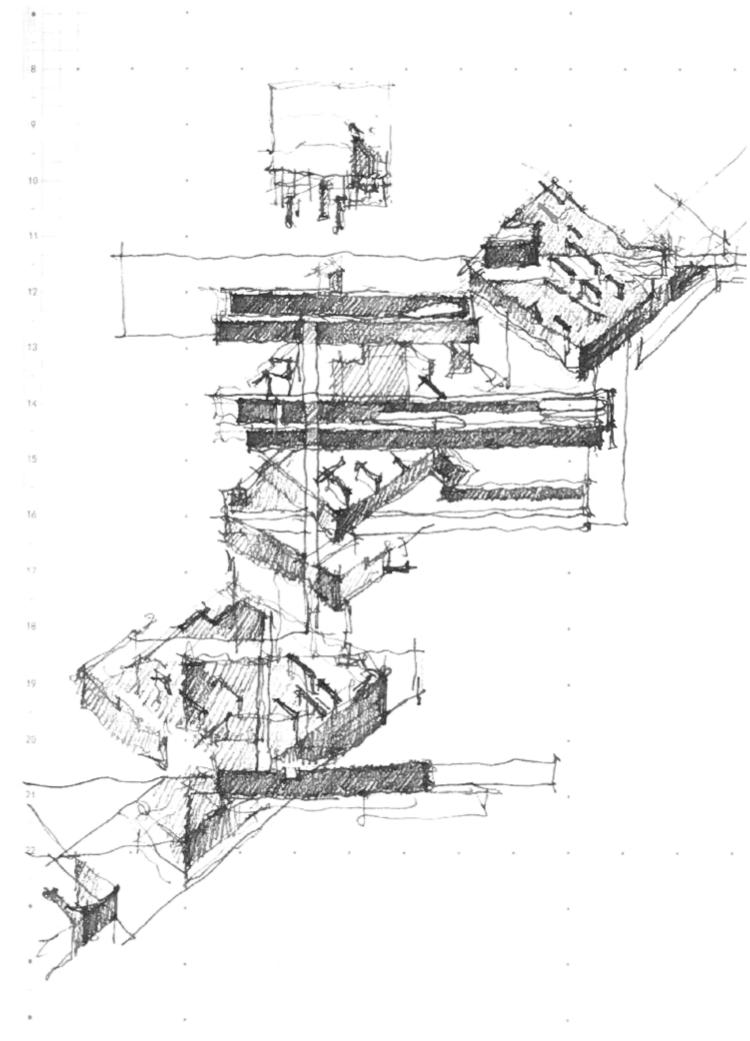
一 老子,《道德经》

Mold clay into a vessle; from its not-being (in the vessel's hollow) arises the utility of the vessel.

Cut out doors and windows in the house (wall); from their not-being (empty space) arises the utility of the house.

Therefore, by the existence of things, we profit; and by the nonexistence of things, we served.

- Lao-tzu, translated by Lin Yutang, Tao Te Ching



THE COMPLEXITY OF VOIDNESS

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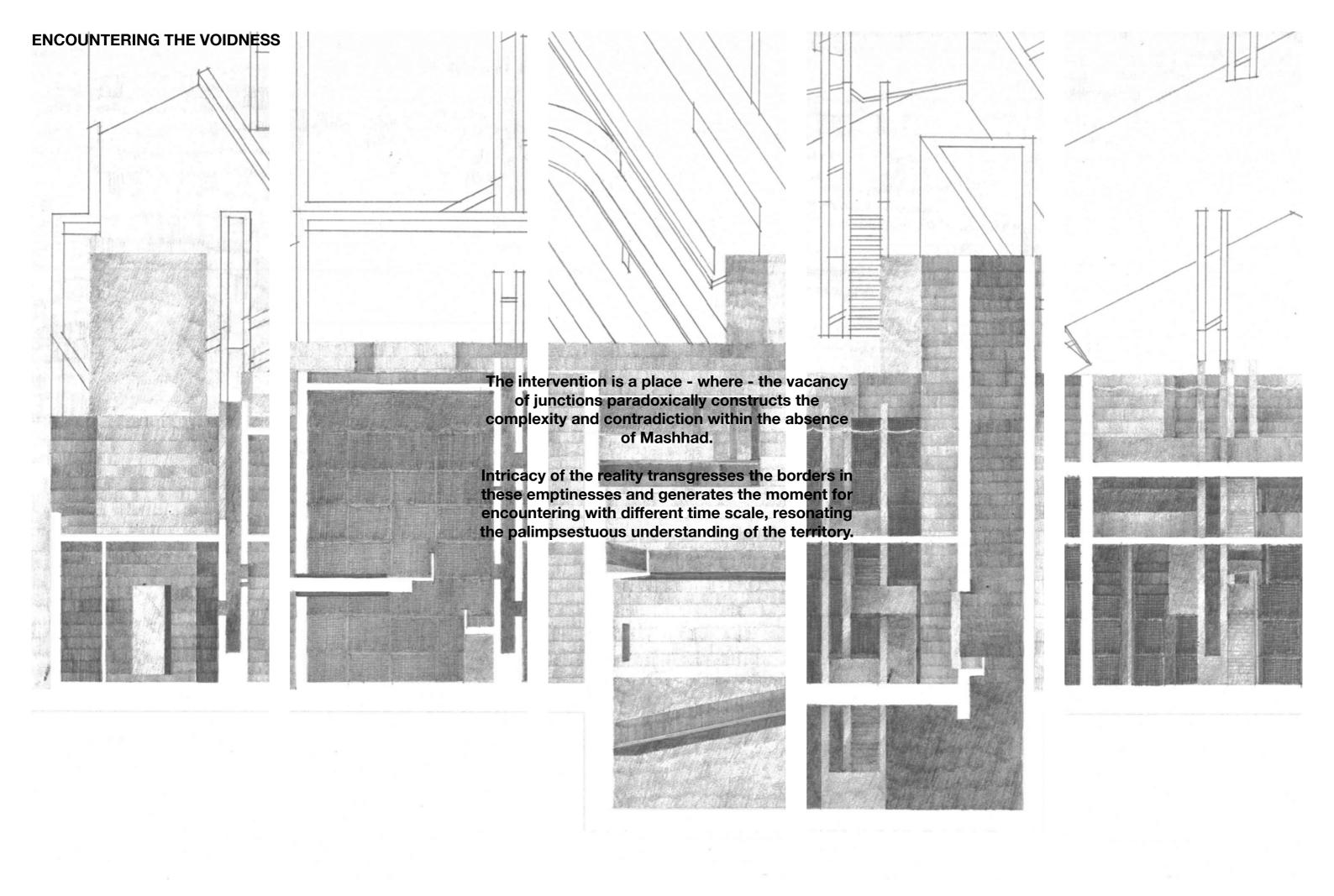
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THANK YOU!

P5 Presentation

Suihao (Jackson) Zhen, 4773004 July, 7th, 2021

Borders & Territories Graduation studio (2020-2021) - Emerging border conditions in Eurasia Faculty of Architecture and the Built Environment, TU Delft

> Mentors: Marc Schoonderbeek Gilbert Koskamp Filip Geerts Negar Sanaan Bensi