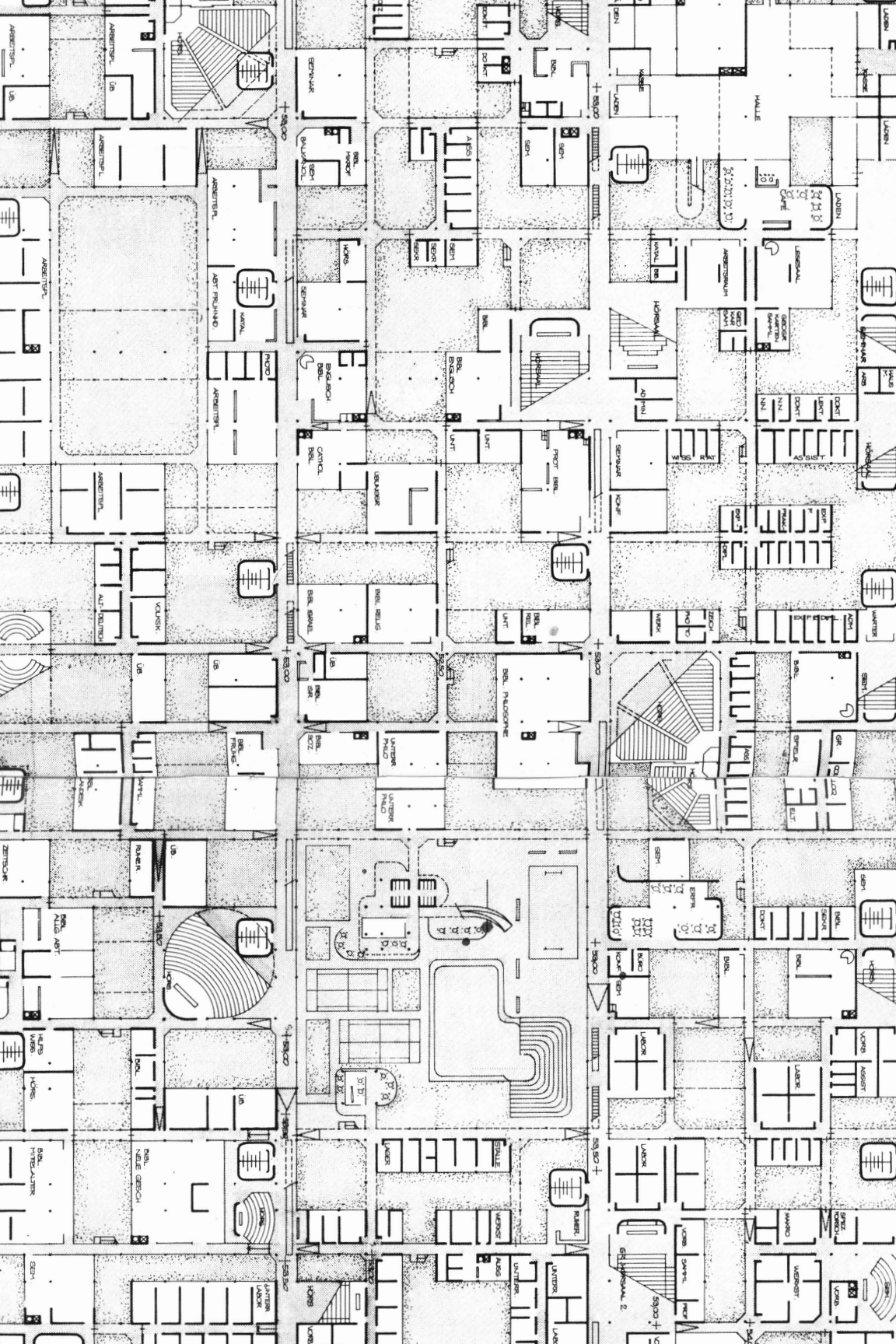


# 3 Arcadian Urbanism by Column Proliferation



The relationship between massing and circulation has been an important territory of experiment, and more specifically where the resulting *in-between space* offers a very interesting take on spatial occupation.

*Arcadian Urbanism* is a proliferation protocol that creates the densest possible occupation of a space with specific in-between typological qualities.



# Protocol

## Massing and circulation relationship

The relationship between massing and circulation has been an important territory of experiment, and more specifically where the resulting in-between space offers a very interesting take on spatial occupation.

Arcadian Urbanism is a proliferation protocol that creates the densest possible occupation of a space with specific in-between typological qualities.

In the medieval city this was a non-issue, circulation and massing operating exactly in the same domain, one being the exact negative of the other; and the same could be said about Koolhaas' Manhattanism. Modernism brought a new paradigm to this condition, with the separation and hyper-specialization of its systems.

Massing and circulation became two different systems, with only minimal correlation - and more specifically, the lack of diversity and density, in-between space therefore being non-existent.

This is explicit in the famous side-by-side comparison made by C. Rowe and F. Koetter in 1978 between the Nolli Plan and Corbusier's plan for Saint Dié.

This comparison is almost massing exclusive, as is the new condition the two theoreticians explore - the collage - little thought is given to the relationship between massing and subsequent circulation patterns. Even recent urbanism ideas such as French architect C. Portzamparc's "Age 3" remain fundamentally massing exclusive. Mat-architecture tried to resolve this problem by overlaying the different systems and creating an extremely rich and diverse condition, and this is most apparent in the proposal for the Berlin Free University by architects Candilis, Josic & Woods. The different systems - massing and circulation - were still almost unrelated to one another, although now they created a rich in-between condition. A condition that was almost completely lost once the project was actually built, and the two systems were integrated, resulting in an almost banal regular patio system throughout the building.

I believe variation and diversity in the massing and circulation patterns is the catalyst for the creation of a successful – and operating – in-between condition.

This research is an attempt at re-exploring the relationship between circulation and massing in architecture and urbanism, and exploring a situation where the two are fundamentally intrinsic without sacrificing the quality of the in-between space created, offering perhaps for the first time a designed in-between.

The research follows a historical and cultural approach, with the study of several case studies throughout architectural discourse to better understand how in-between spaces have operated through time. The approach for the case studies was defined on type and program. If an in-between space is defined as being a circulation system that also allows for the creation of programming and occupation, this has to be very specifically defined.



# Research

## Contemporary and Historical Case Studies

Parallel to the development of the arcadian protocol, a series of exemplar case studies were thoroughly studied in order to better understand different established systems.

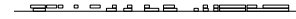
These different case studies vary both in scope and architectural performances. The first ones focus on the direct relationship between massing and circulation. The goal was here to understand different discernible patterns related to those two qualities. Attributes such as repetition, porosity, directionality and connection were carefully studied and injected into the prototypical condition.

After this general approach, the research was focused on more clearly defined typologies and how they operate. Base in-between typologies were determined such as the plaza, the arcade, the gallery and the walkway. All of these were used as references for creation when the prototype was applied. Basic geometries were analysed and relational qualities extracted - such as ratios, heights, widths, openness and slopes.

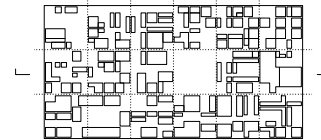


Berlin Free University. Candilis, Josic & Woods. 1963

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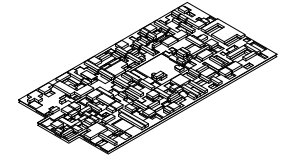
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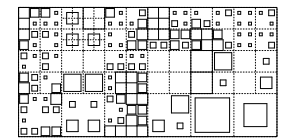
the free adjacency of berks uses a differentiated grid system for the circulation and for the housing. the differentiated system allows for an almost autonomous placement of mass within the grid and the creation of a series of different spaces and in-between conditions. this system was abandoned since the building was built for a much more rigid integrated system.

10

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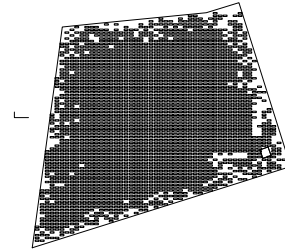
modified condition

11



Holocaust Memorial. Peter Eisenman. 2004

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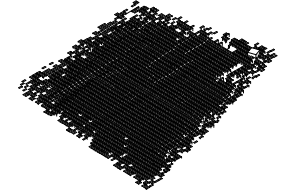


The following memorial uses mass to create a threshold and differentiation of spaces without the use of a particular circulation system or pattern.  
 gradient threshold: 0.25%

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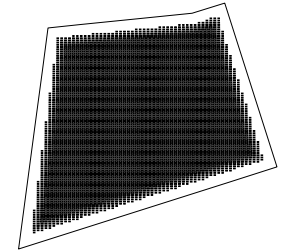


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gradient: 0.1%

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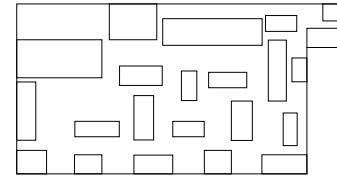


gradient of condition  
 gradient threshold: 0.25%



Vals Therms. Peter Zumthor. 1996

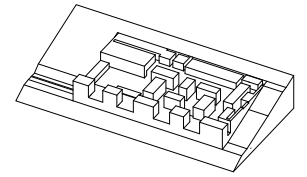
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Roof plan  
 using white tiles  
 geometry: 18,000m²

22

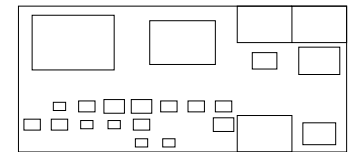
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Intersecting volume

24

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Intersecting conditions  
 geometry: 18,000m²

25

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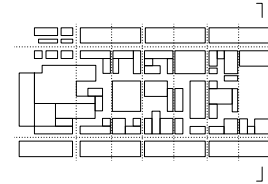






Saitama Prefectural University. Riken Yamamoto. 1999

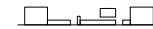
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The Saitama prefectural university uses a similar system to the one that was applied for in the built project of the university on behalf of an integrated grid system for both the circulation and housing is much more rigid and regular. The quality of the intermediate space created is better than that of a differentiated system.

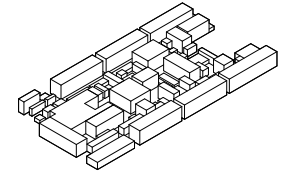
28

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29

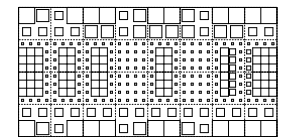
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Intermediary view

30

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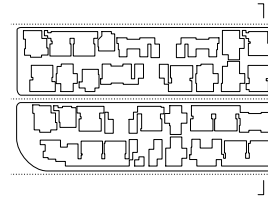
Model of condition

31



Matteotti Village. Giancarlo De Carlo. 1970

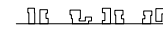
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The linear topology of the suburban village relies on an aggregation of citizens to create an in-between space which, in the case contexts of different levels of privacy, from public to semi-private and finally, completely private, using dramatically allowing for a better integrated circulation.

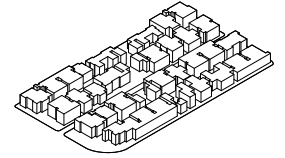
16

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16

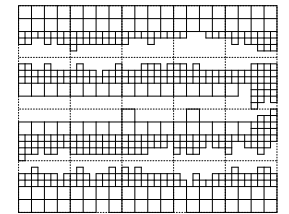
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Intersecting view

16

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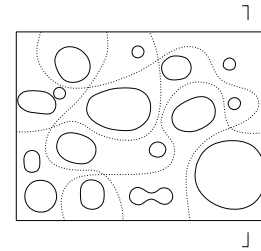
Number of conditions  
 members of the existing system to allow for an addition system instead of substitution

17



Rolex Learning Center. SANAA. 2010

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In the learning center, the architects use height level to differentiate the space throughout, and in this case is created in the shifting of space rather than the creation of it, and not the quality of the horizontal space when in function of the height of the adaptation within the spatial domain.

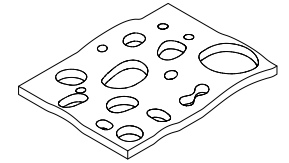
40

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41

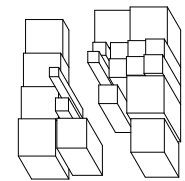
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Intersecting view

42

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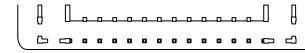
Multiple conditions  
 Height creates and affects possibility for progression in the newer models

43



Via Roma. Ascanio Vittozzi. Late 16th Century

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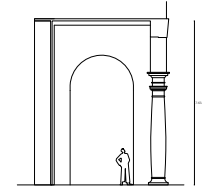
Roof plan  
 long side 42m  
 maximum 12.5m

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section and elevation  
 height to height ratio 1:2  
 arches openings 12.5m

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section  
 height to width ratio 1:1.5

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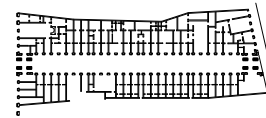


module condition  
 condition of structural redundancy to reduce apparent  
 adaptation of proportions and height to width ratio



Galleries Royales. Jean-Pierre Cluysenaer. 1836

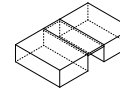
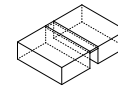
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 Collaborator: Jean-Pierre Cluysenaer  
 Student: Jorge Serra  
 Construction: 1836  
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Roof plan  
 Long side 17.0m  
 Width 10.0m  
 Height 11.0m  
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12

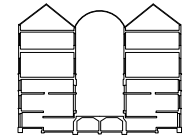
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Isometric condition  
 Interpretation of height and width ratio

13

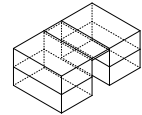
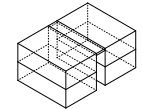
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Section  
 Height to width ratio 2:1

14

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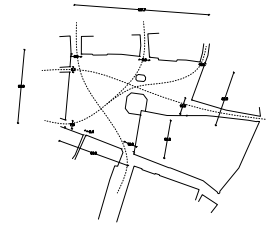
Isometric condition  
 Interpretation of height and width ratio

15



Piazza Della Signoria. 13th Century

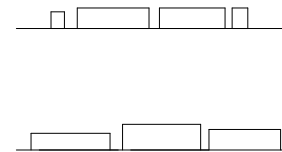
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Roof plan  
 the main space of the place is left open for circulation and activities  
 the place is also filled around with the street (people's movement) in the actual area defined by the fountain there is only one opening with a height to width ratio of 0.55 keeping the appearance of a closed space street

18

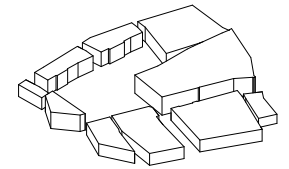
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section  
 maximum height to width ratio 1.15  
 width height to width ratio 1.3

19

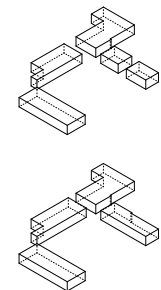
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maximum view

20

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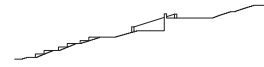
maximum condition  
 the height creates the conditions for the formation of a plane type, by arranging the surroundings to offer a more enclosed space

21



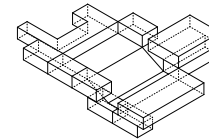
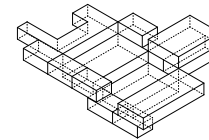
Piazza Di Spagna. Francesco De Sanctis. 1717

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section  
 general ratio: 4:6.6  
 height difference: 4.3.5cm  
 step ratio: 1cm height x 2.4m

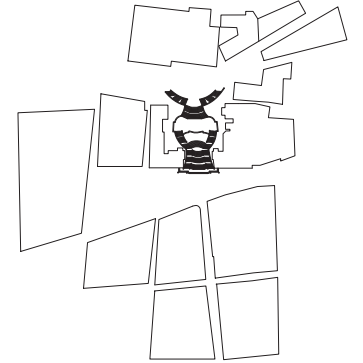
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modified condition  
 when two plates are adjacent, the appropriate length is determined for a step condition

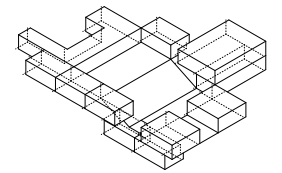
64

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plan  
 relation to the existing ground  
 position relative to existing water in site

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modified condition  
 not opening is created when possible to give the right context for the plan

65

# Generic Non-Differentiated Merchandise Mart Building, Chicago

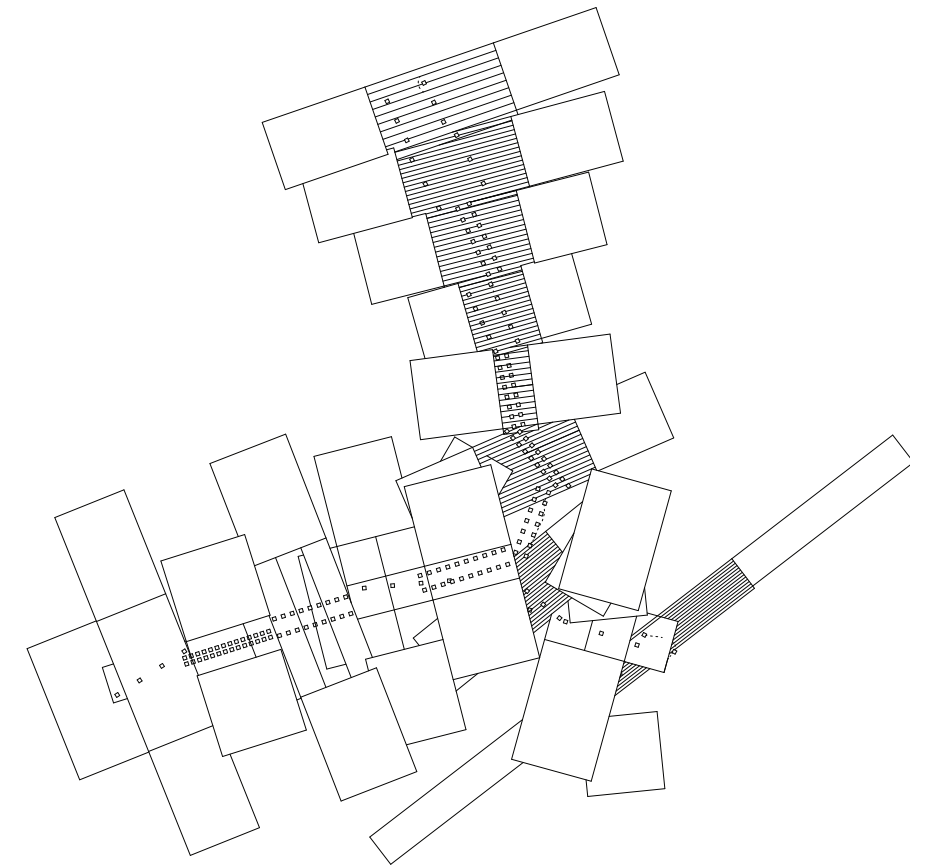
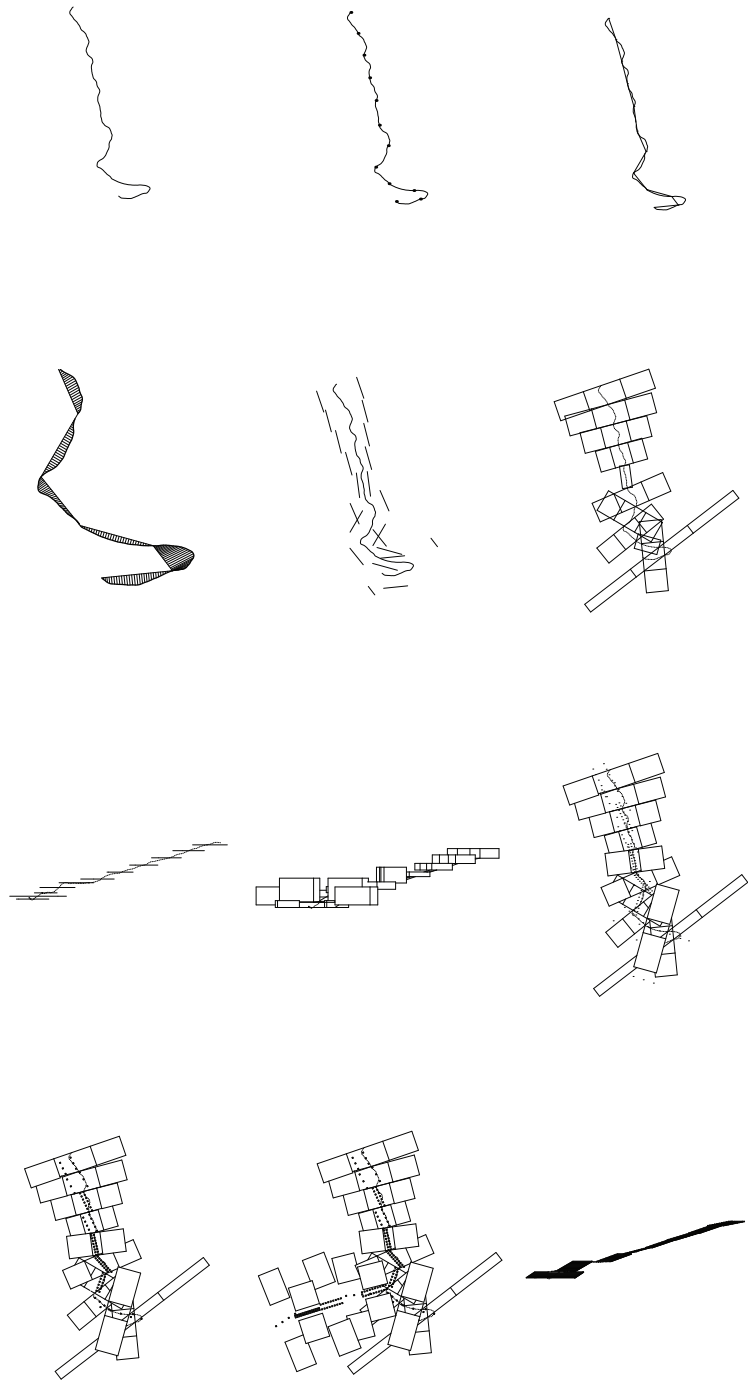
These specific conditions were identified and recreated in the primitive model. The arcade – as a system – is versatile enough as an archetype to define several typologies ranging from the plaza to the corridor. As a system, it includes several relational logics that were fundamental to the development of the primitive. Its relationship to programming and circulation are fairly straightforward, and further analysis includes directionality and openness to the outside. The primitive is organized following two integrated grid frameworks. The first one determines porosity, while the other one creates circulation patterns. These two frameworks operate on basic adjustable data elements such as porosity, subdivisions and density.

The application follows a feedback logic that allows the prototype to evolve and proliferate in different ways. Before any contextual application, the prototype used basic porosity to determine optimal circulation and massing for an ideal in-between condition. This operation is still fairly generic and didn't focus on any specific typology regarding the architectural space but rather an optimized set of parameters to be followed.

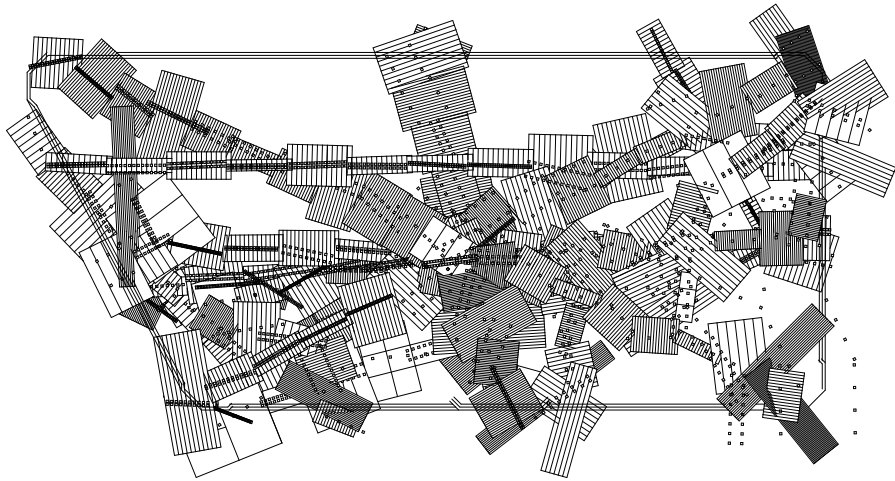
When the prototype was applied to the first case study – merchandise mart – its typological qualities were refined in order to provide a more characterized space. The system not only creates at this point massing and circulation, but also a structurally redundant system of columns that bridges the two and responds to similar parameters. By doing so, the columns now define and differentiate another level of “in-betweenness” within the circulation patterns.

This first attempt at colonizing an existing space remains extremely speculative and generic. The space occupied is so vast, and with so little to work with – spatially, that the prototype multiplies, grows and occupies the space in a chaotic and uncontrolled way.

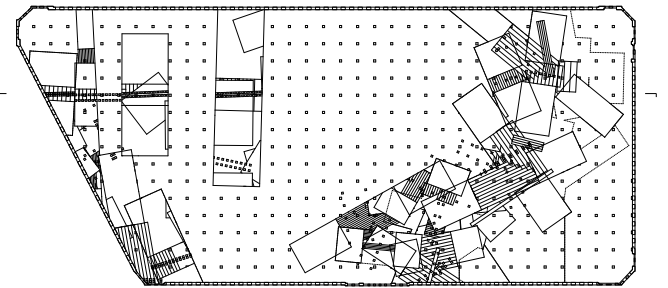
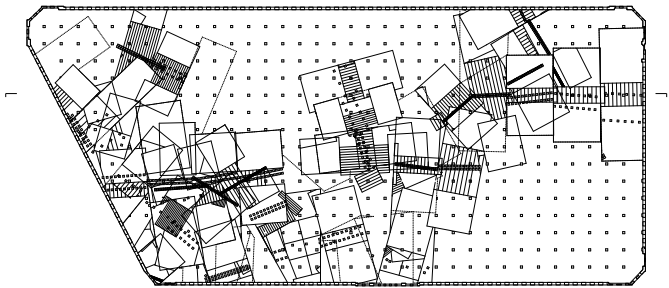
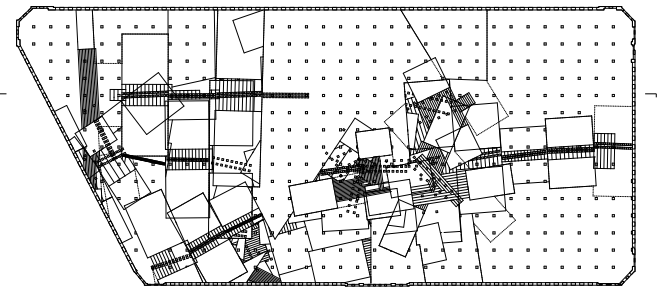
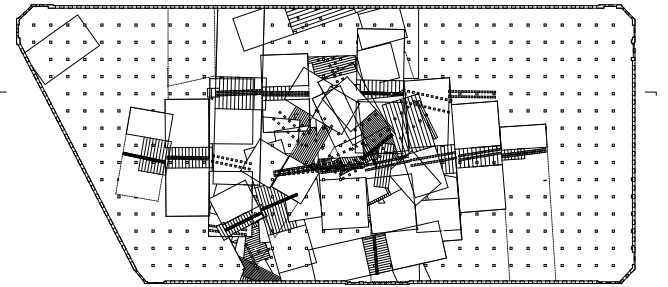
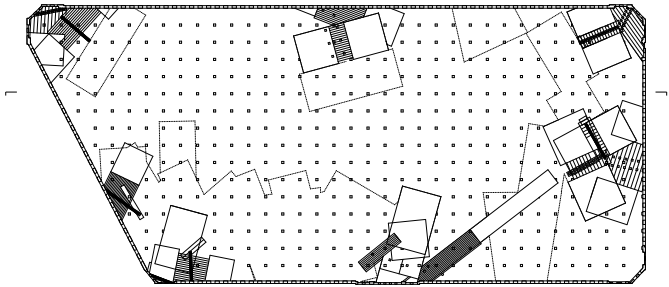




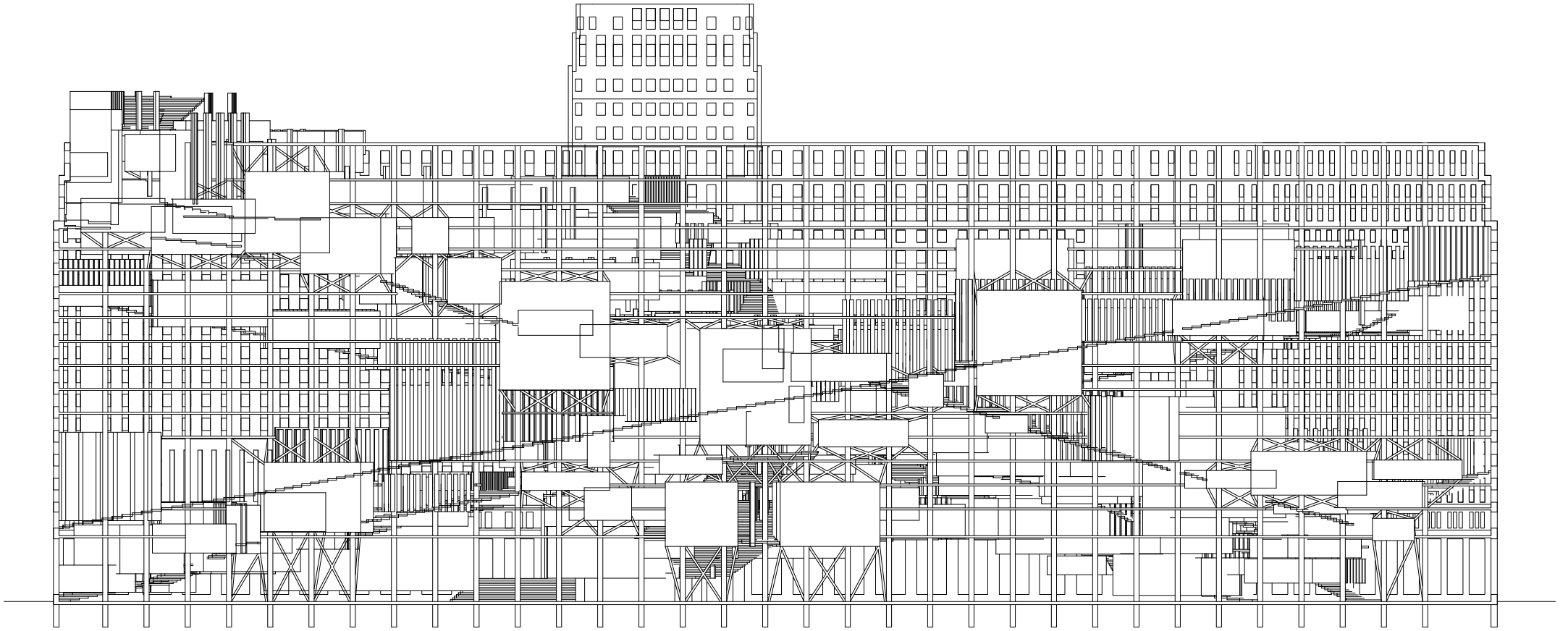
Proliferation diagrams in the generic non-differentiated space.



Application to Merchandise Mart, Chicago.



Merchandise Mart Plans.



Merchandise Mart Section.

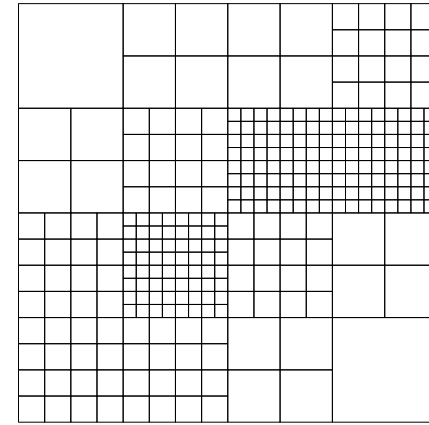
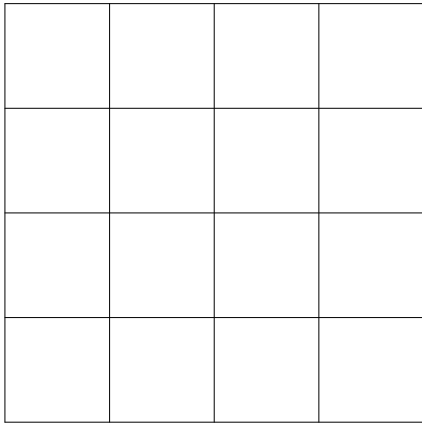
# Generic Differentiated Proliferation in the Domino System

The primitive is an attempt at an explicitly designed in-between space, based on a coherent and integrated framework as opposed to a layered logic, where separate elements are superimposed to each other. By following the same descriptive parameters that create a range of typologies following the same logic, the in-between condition is performing here under a consistent – and hopefully logical – approach. The question of the possible ranges is still an open one, as the balance can be very delicate to achieve. On one hand we have the traditional room and corridor system – a typology this model is openly fighting – and on the other hand we also have the much adopted solution of the fully open, undifferentiated space that acts as a single room. The two extremes are easy to adopt, the in-between condition much less so.

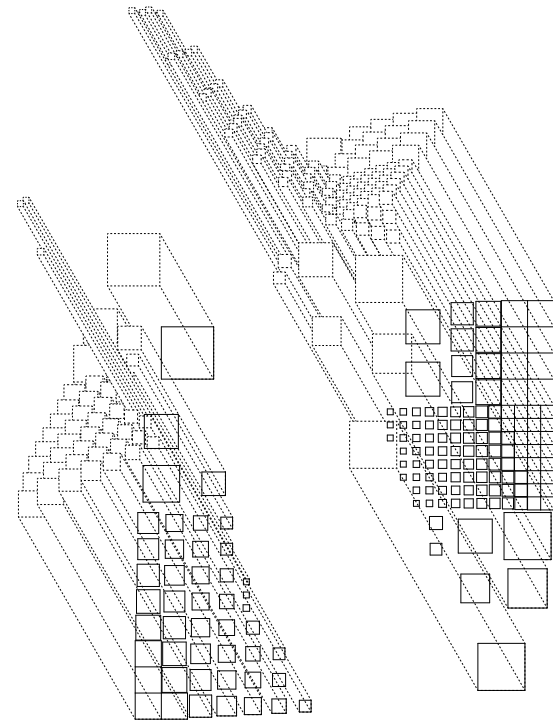
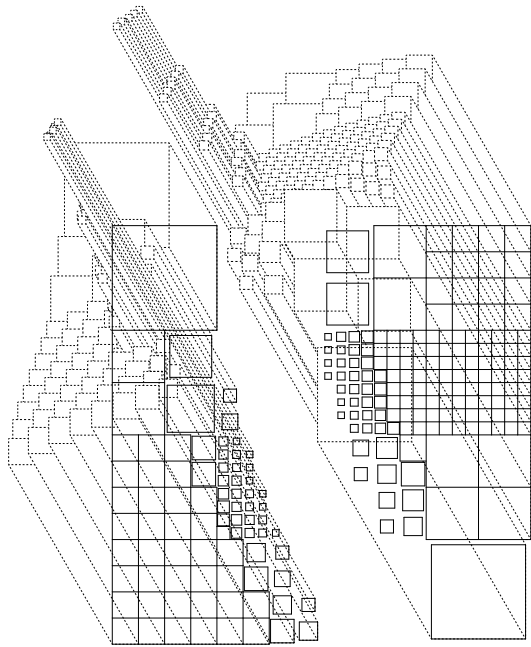
The raw information on how these two systems relate, determines – following the four different relationships - how the arcading elements operate. The system acts from the two predetermined systems - rooms and circulation - to create a third overlapping one; the in-between space.

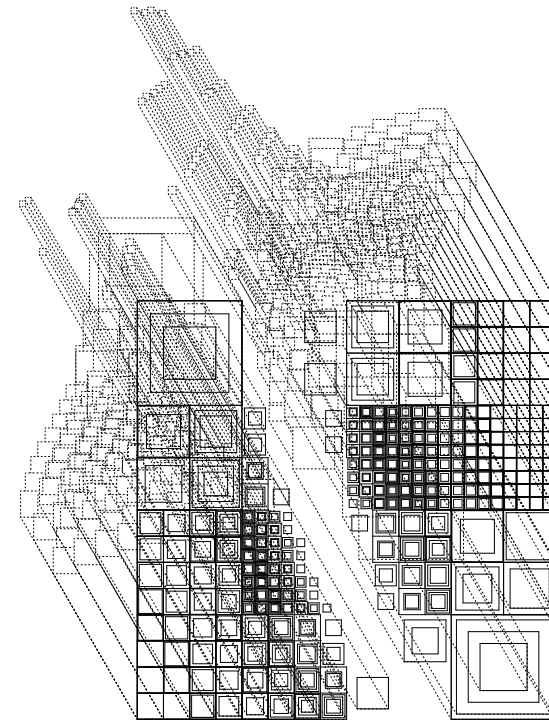
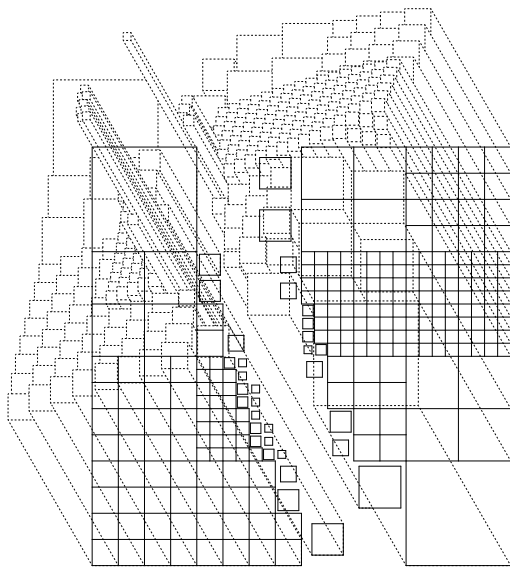
When in a space, a variety of different connections to circulation branches occur and there is little directionality, a plaza typology is created. Whereas if the system is strongly directional and has several connections to different programmatic elements, a gallery is more appropriate, for example.

This system also allows for a more comprehensive spatial occupation of the space and especially its vertical qualities as it defines new conditions of inside and outside, bringing into the prototype different needs for light and porosity. The system is more defined and sustainable as a whole.

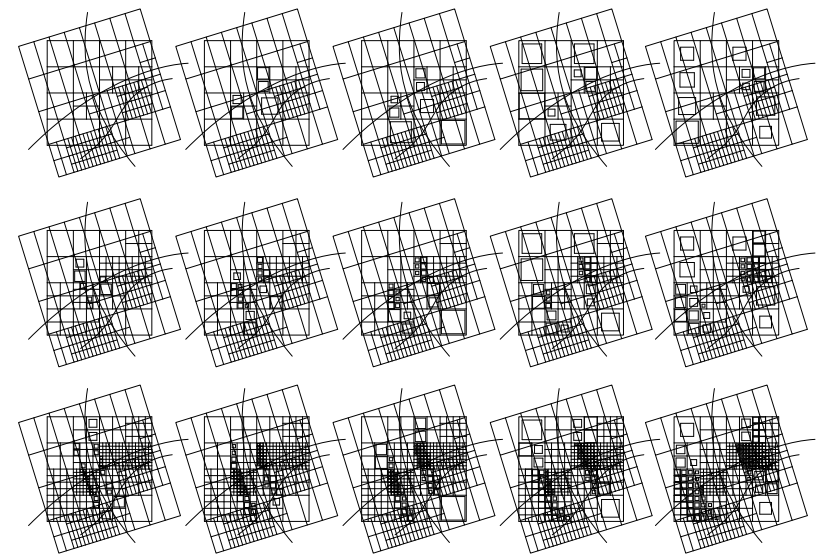
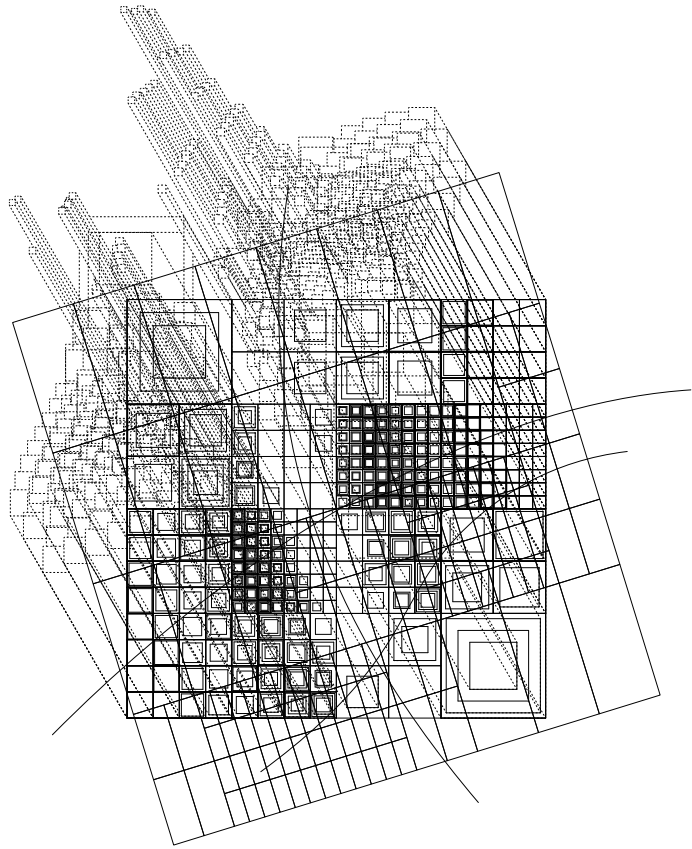


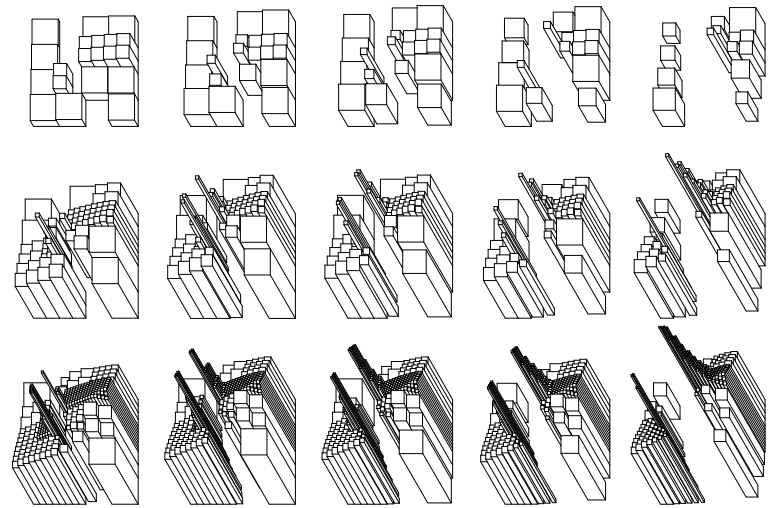
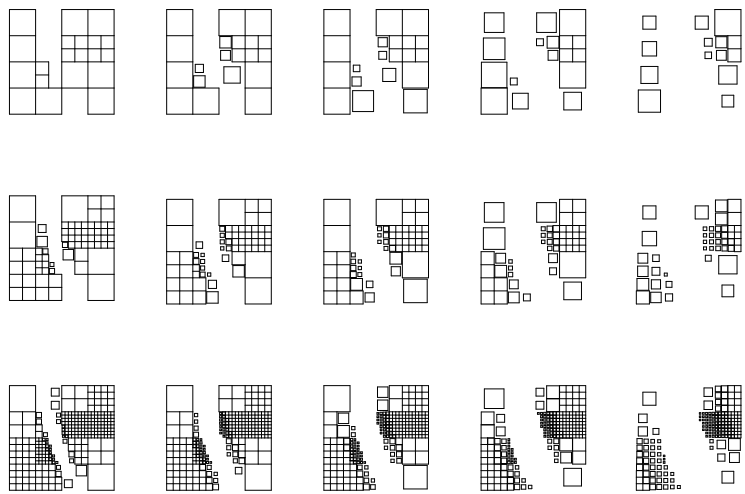
Protocol diagrams in the generic, differentiated space.

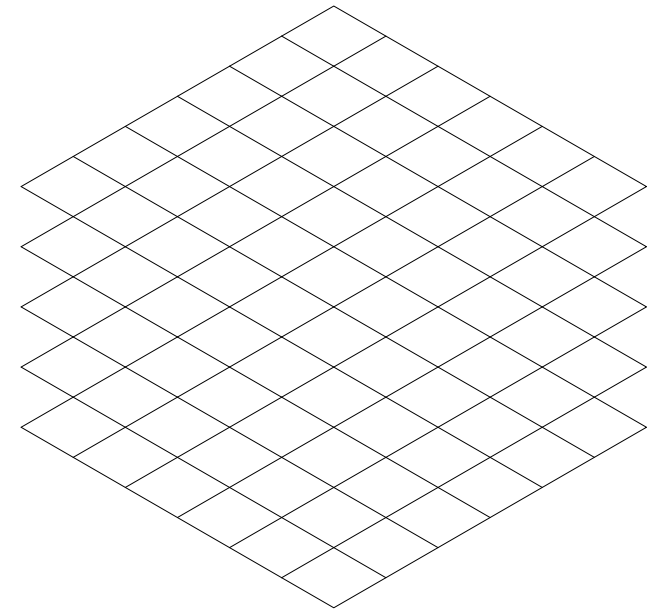
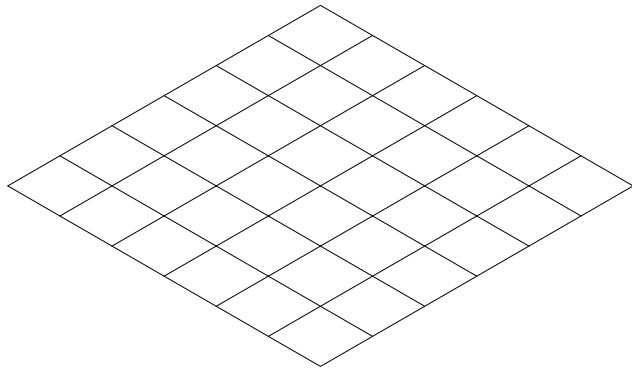


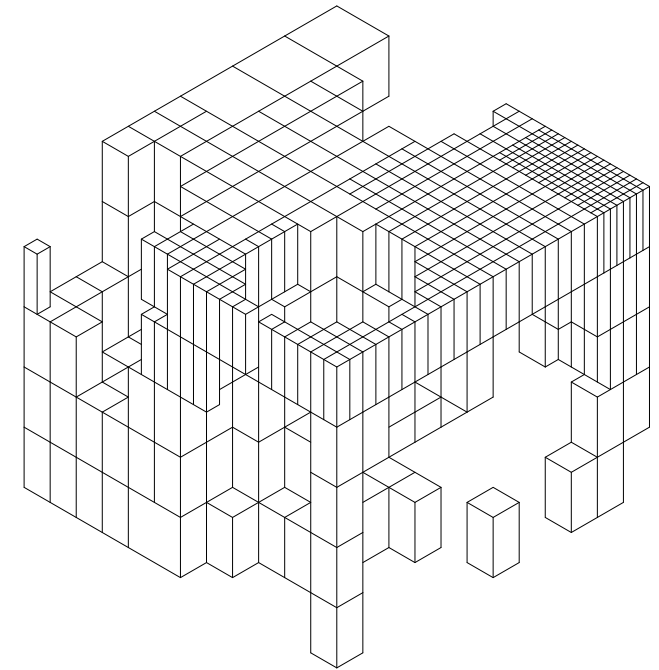
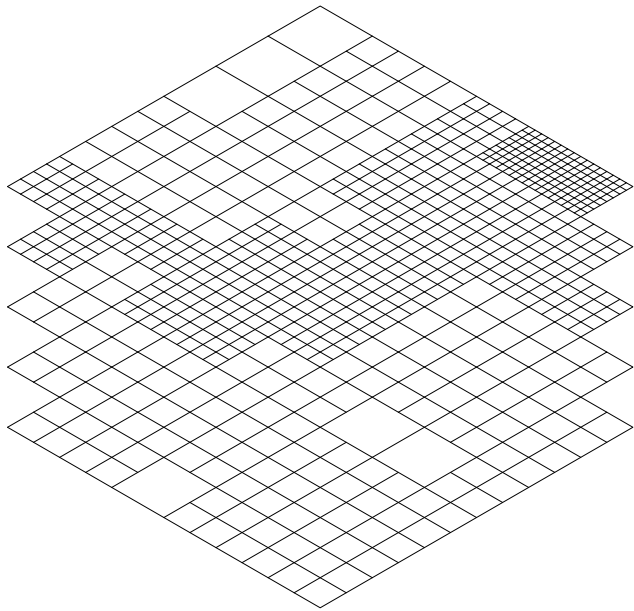


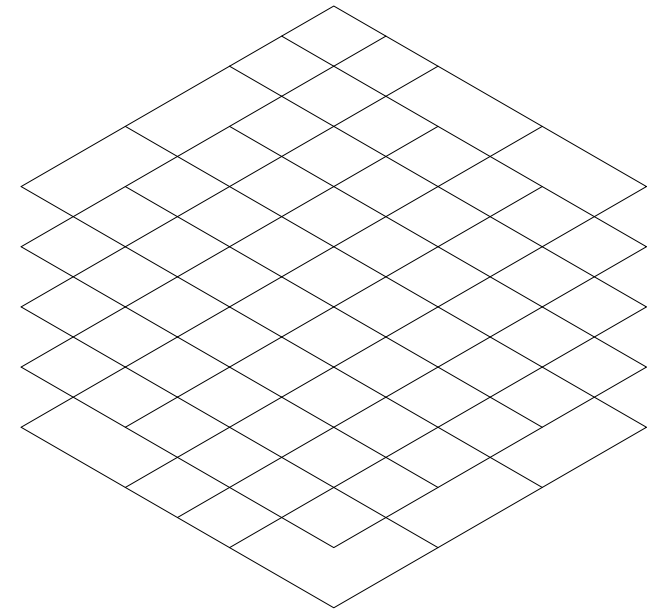
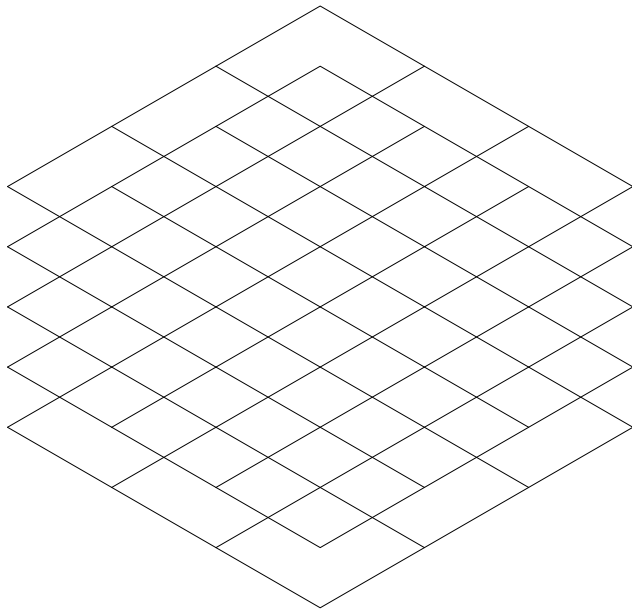


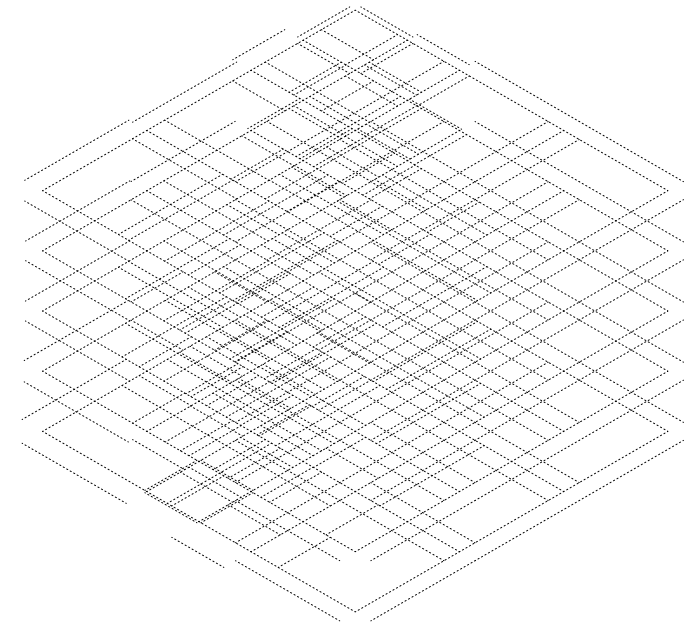
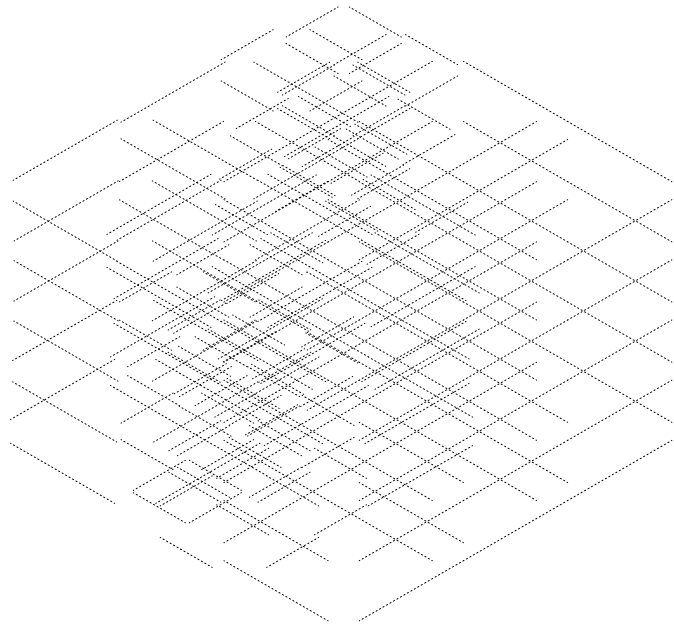


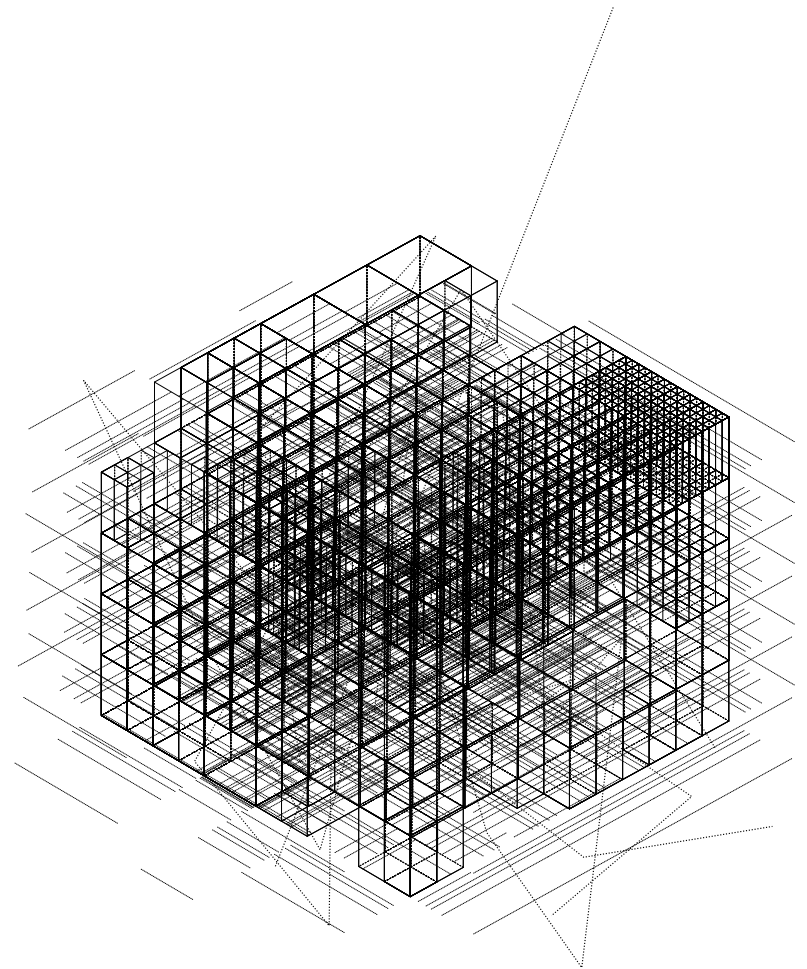
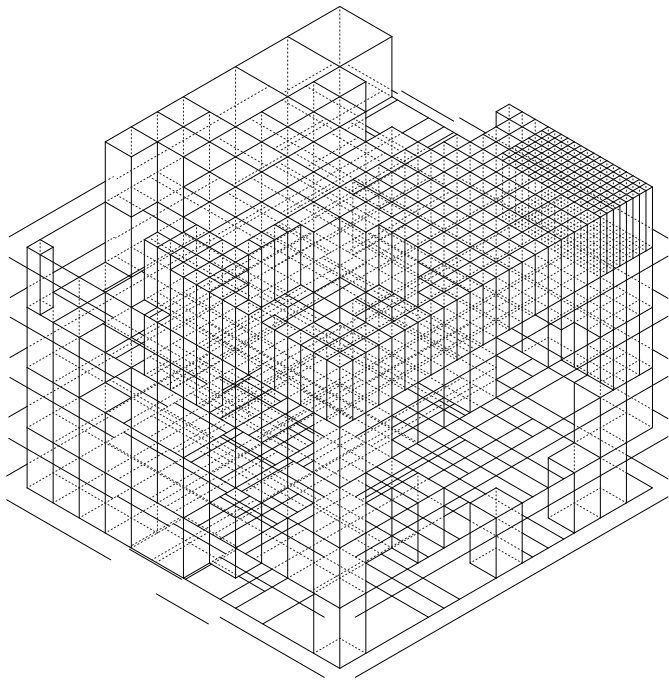


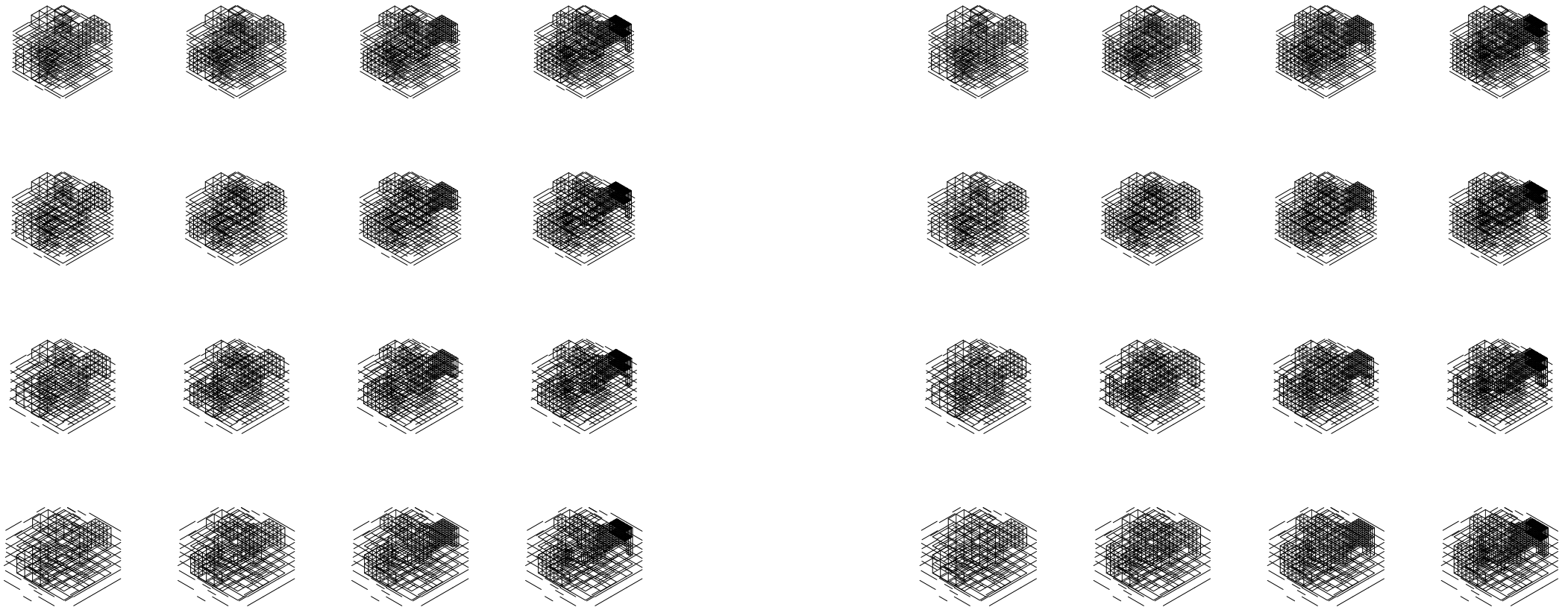






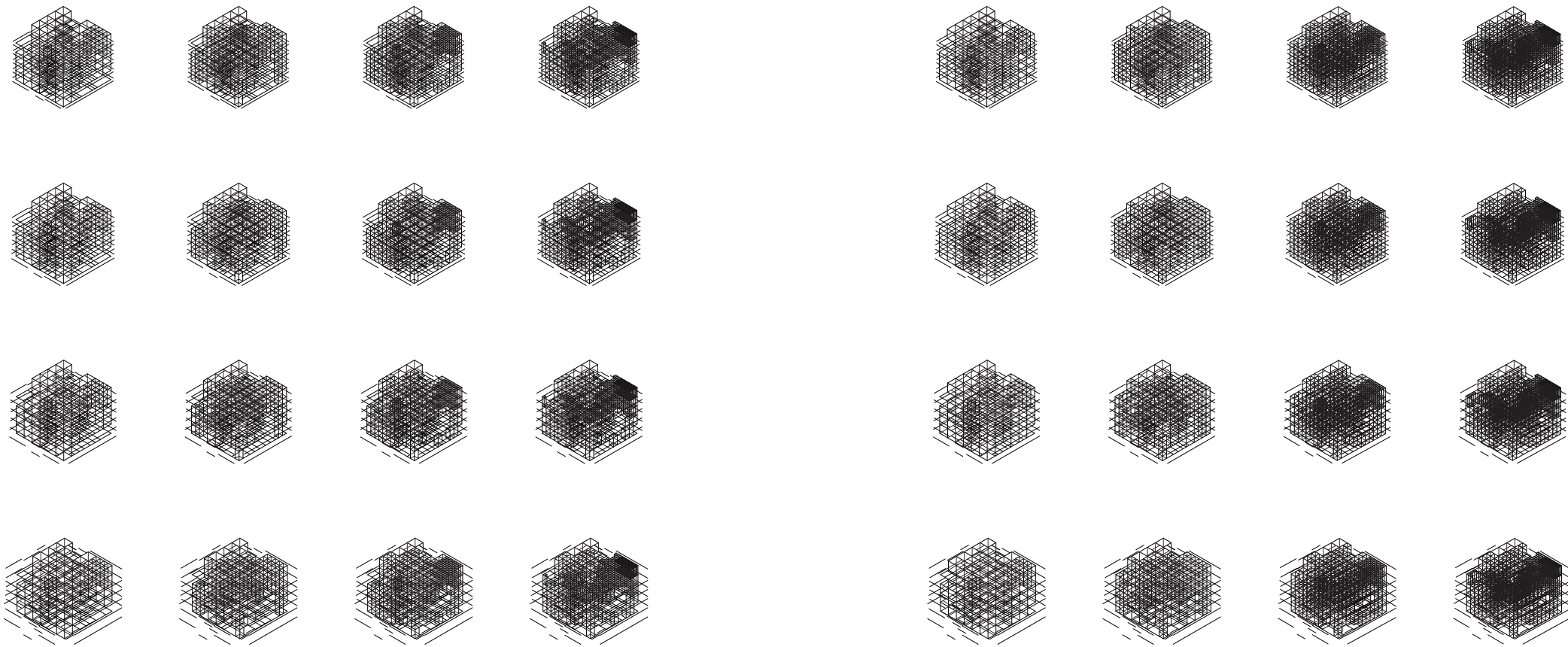




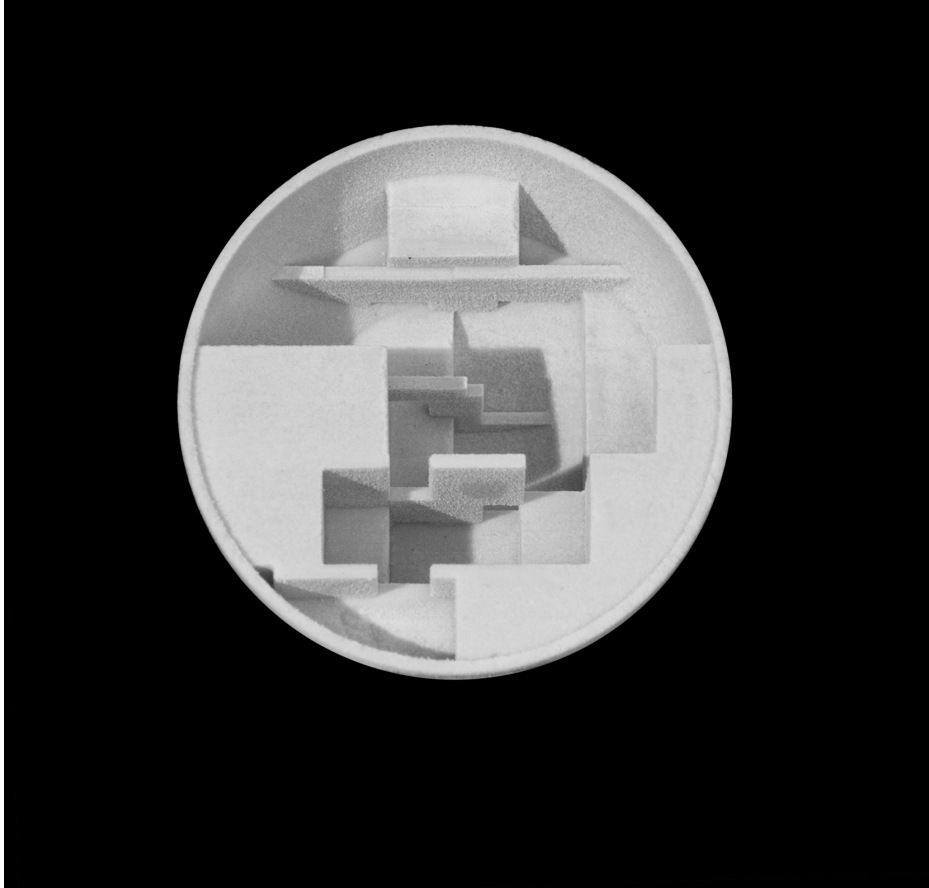


Ranges of the proliferation.

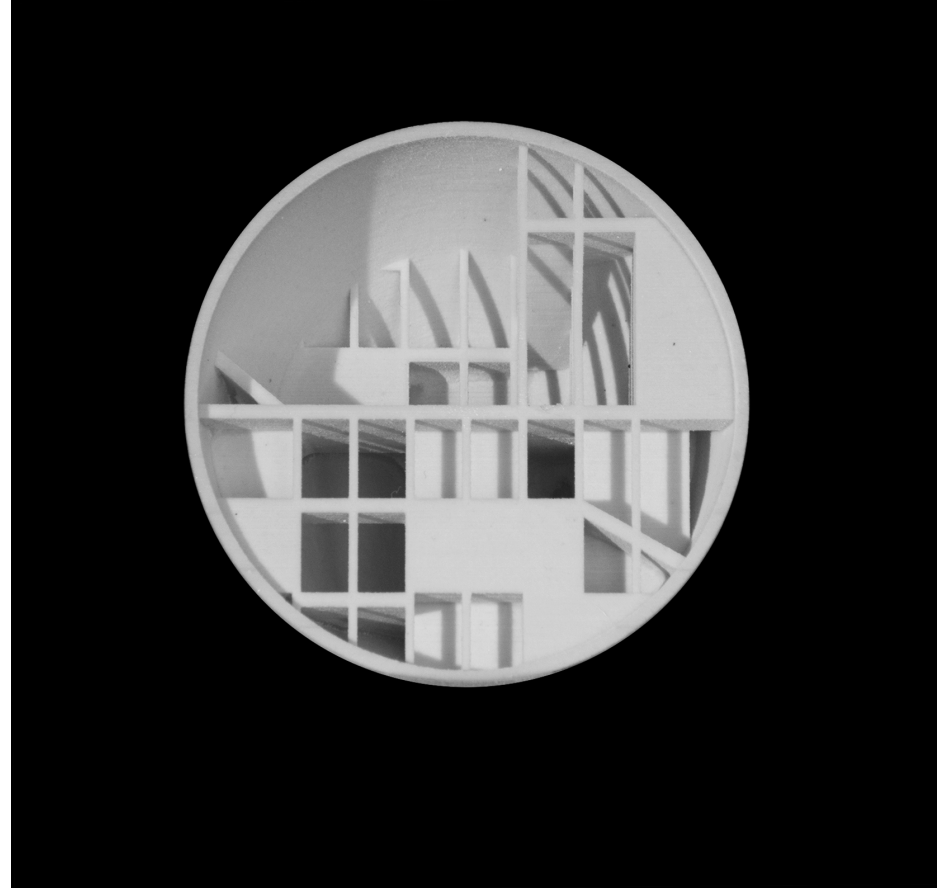




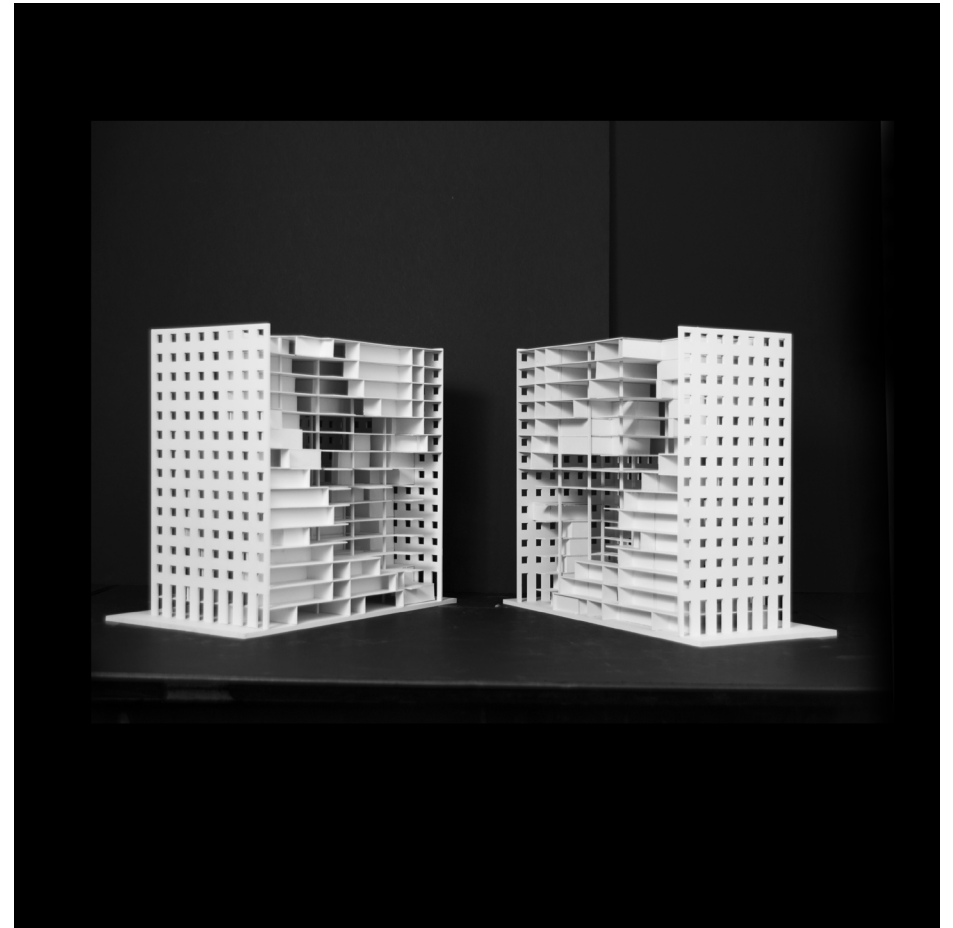
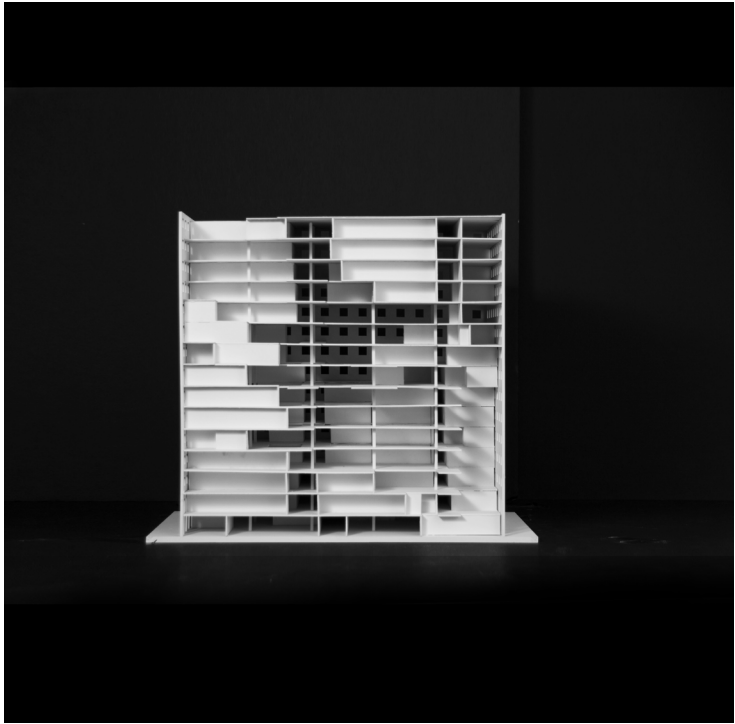
Ranges of the proliferation.



First iteration in the generic space.



Second iteration in the generic space.



Final model in the generic space.

# Specific Differentiated Harrods Building, Buenos Aires

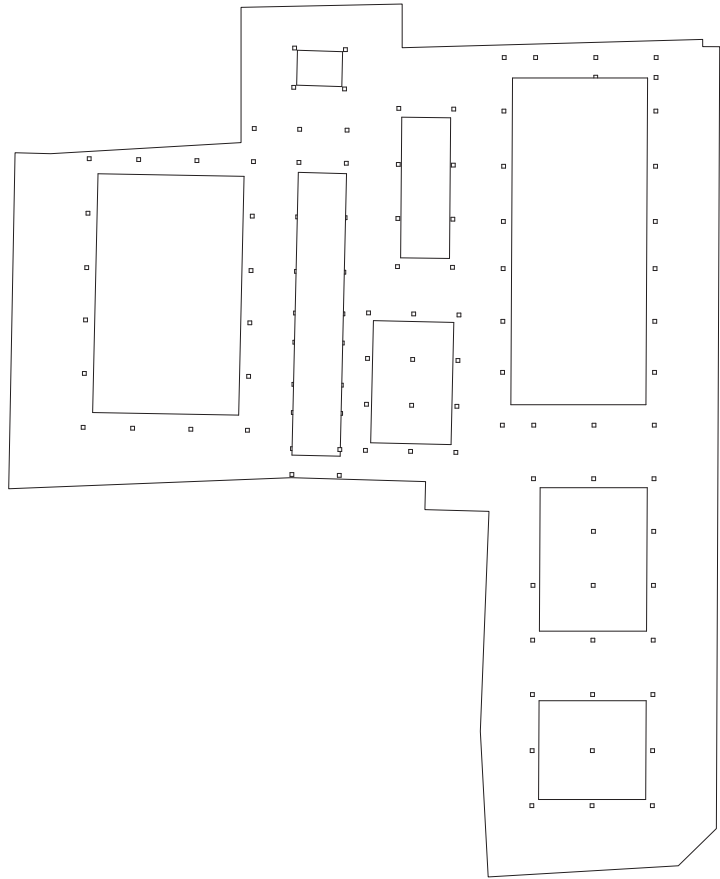
At this point, the research becomes more specific. From the general condition of the in-between space – and its several states through history – to a first generic application, the prototype now proliferates for the second time in an existing building.

For this iteration, the application was reversed. The Harrods building being much smaller, and with a more qualitative context to it, the prototype couldn't afford to proliferate without limits.

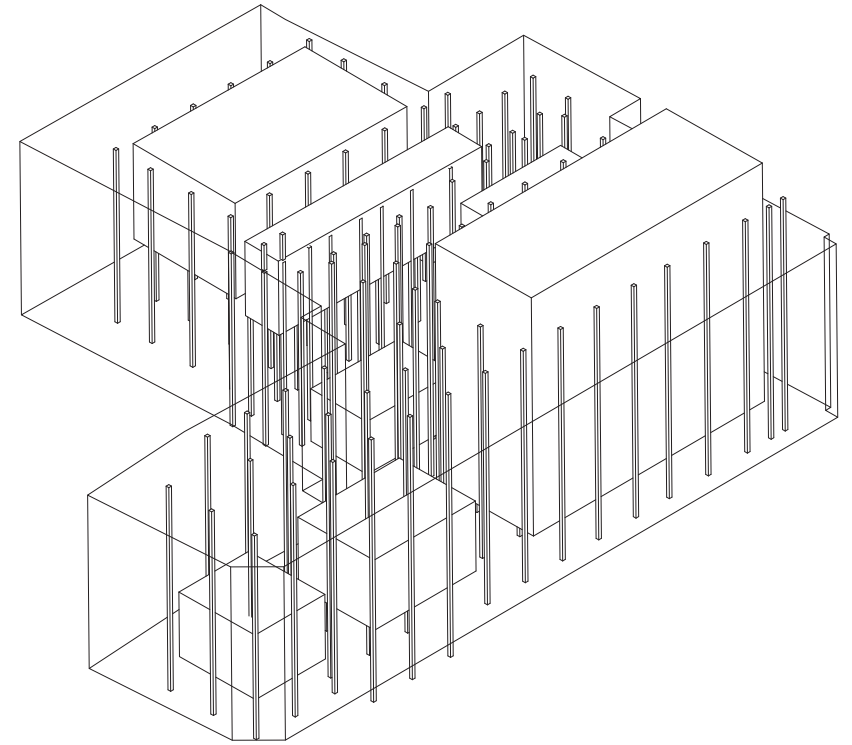
Whereas in Merchandise Mart it all started from generated pathways to occupy the building, this next application took the reverse approach. The spatial field was first differentiated and a basic volumetry defined. Only then was the pathway weaved into the building and the rest of the prototype generated. From the existing columns grid, eight different patterns emerged in the building.

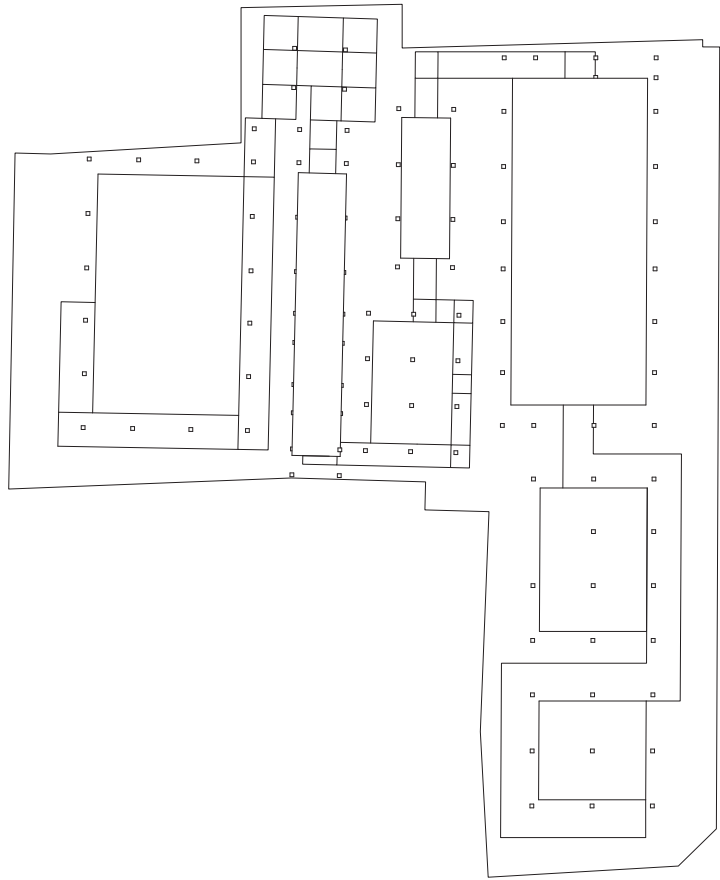
These became the starting point in generating a working volumetric scheme - by becoming open spaces.

Following proportional constraints, they became either interior plazas or galleries; the circulation being then weaved between them. From this the prototype took over, creating colonnades and programming, working with heights, adjacencies, porosity, light, widths, speed of movement, to create the ultimate in-between condition in the Harrods building.

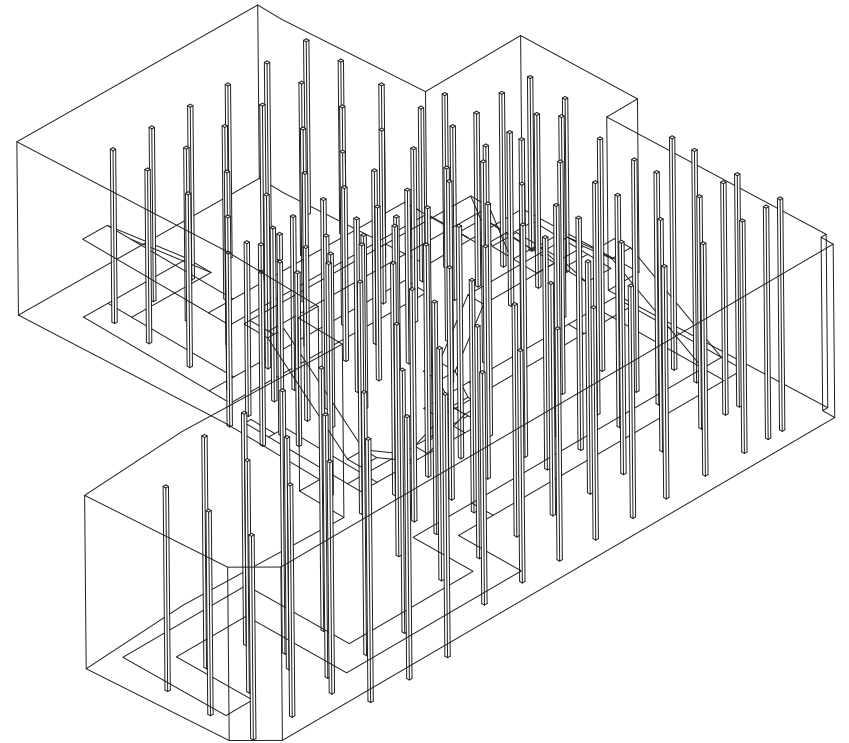


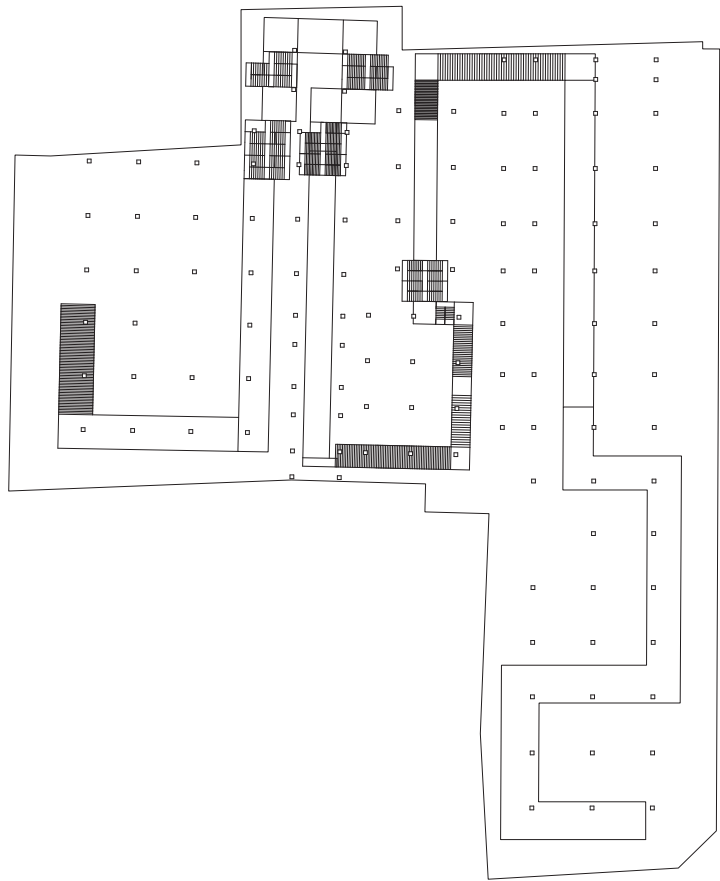
Protocol diagrams in the specific, differentiated space. Creation of open spaces within the grid.



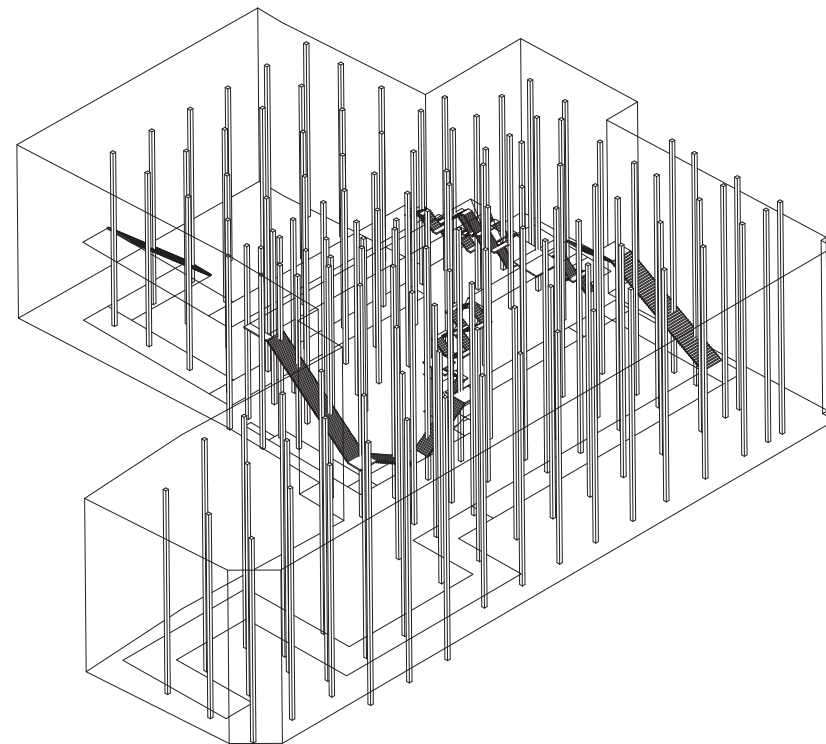


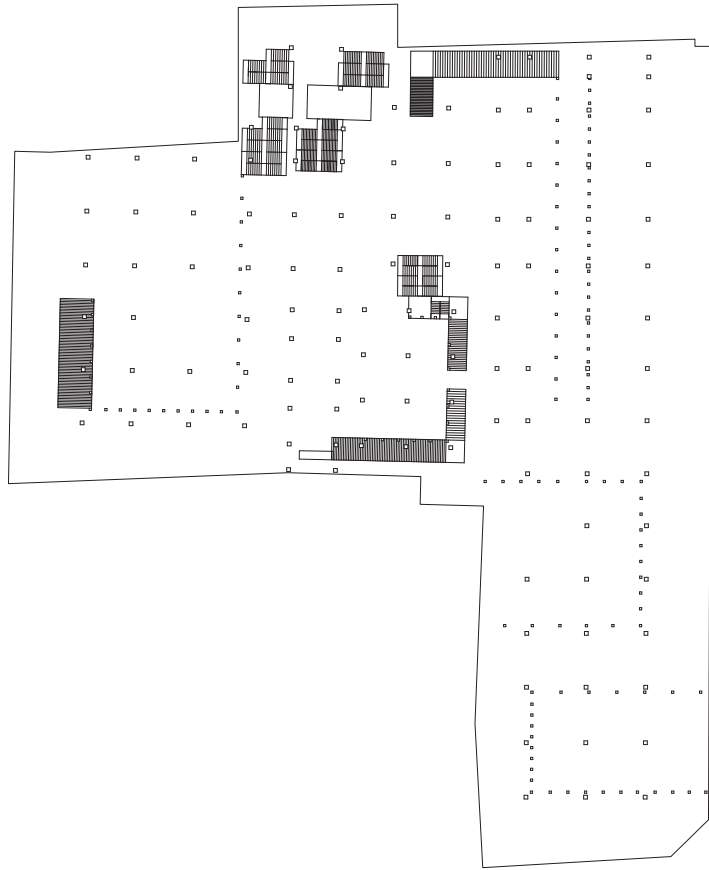
Weaving of the pathway in-between the open spaces.



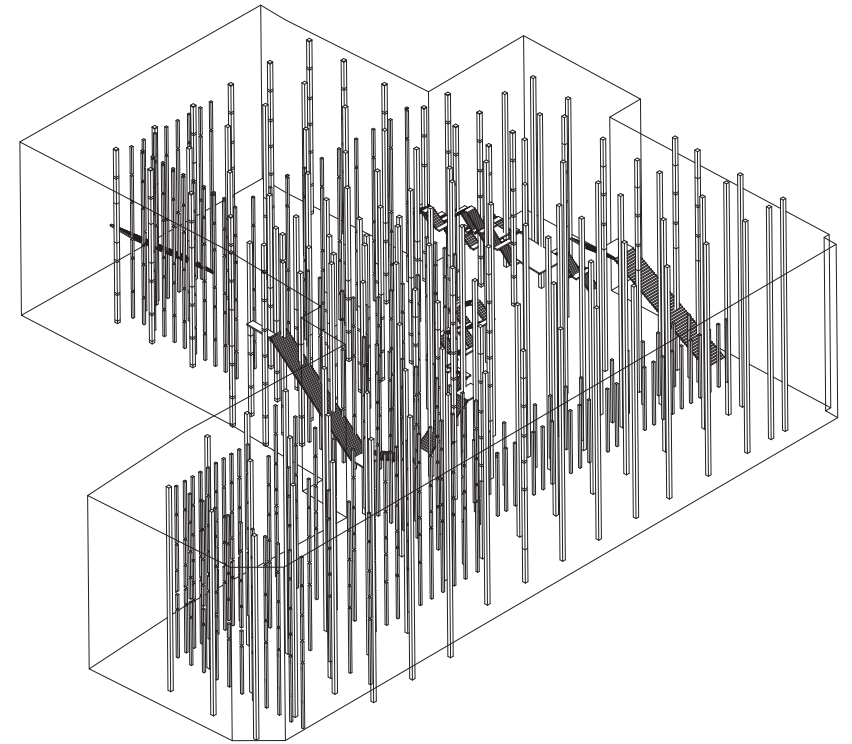


Creation of stepping conditions to compensate for the height differences.

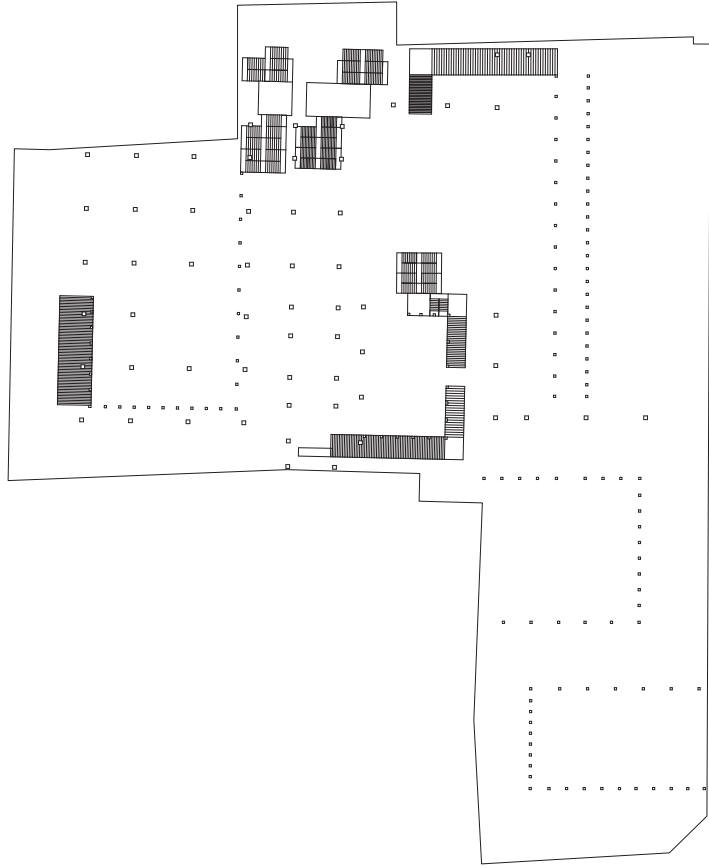




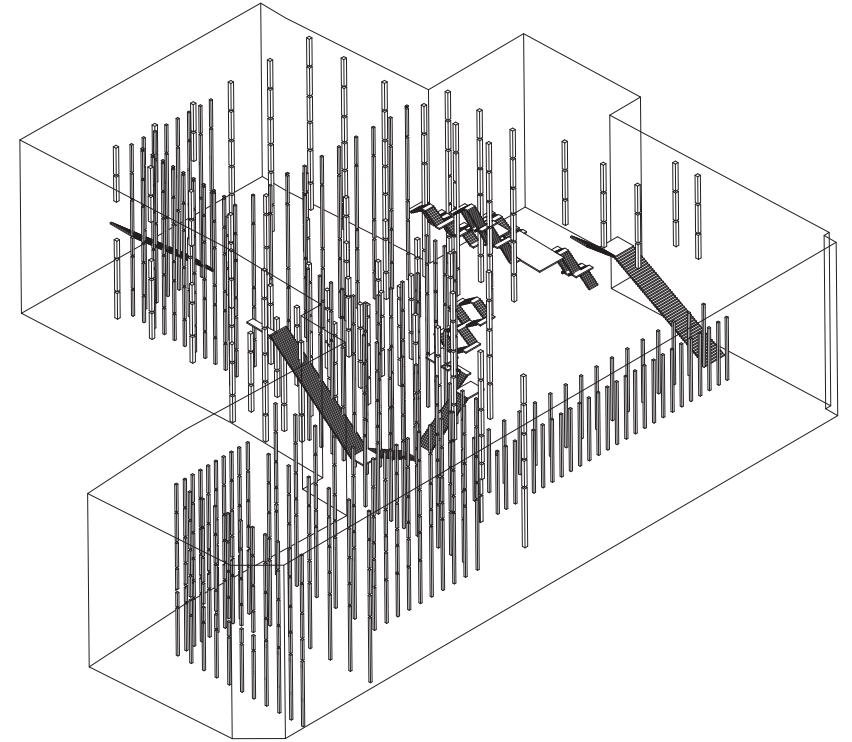
Column redundancy creates specificity in the grid framework.

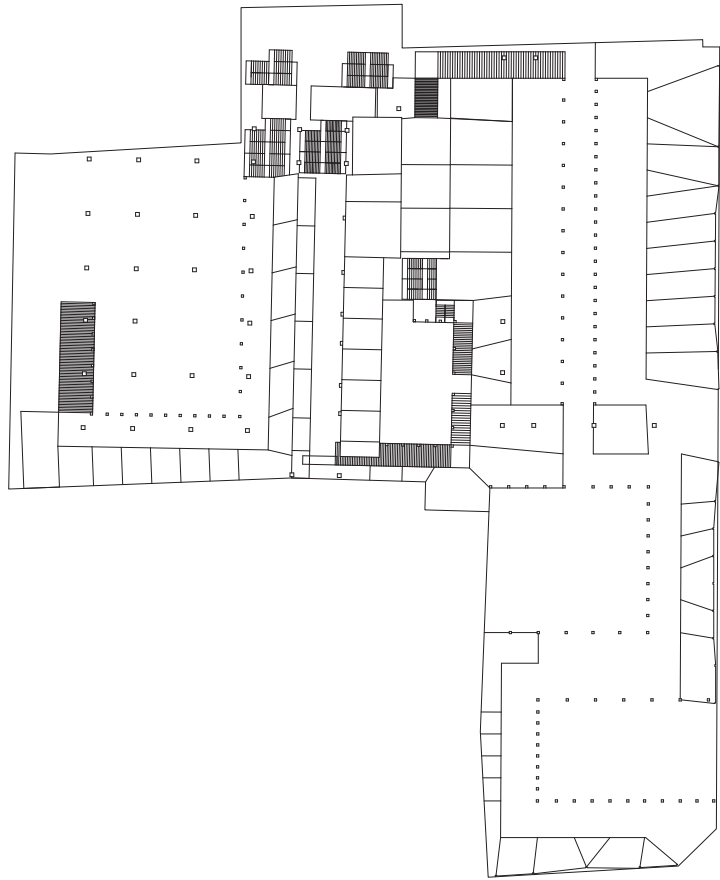




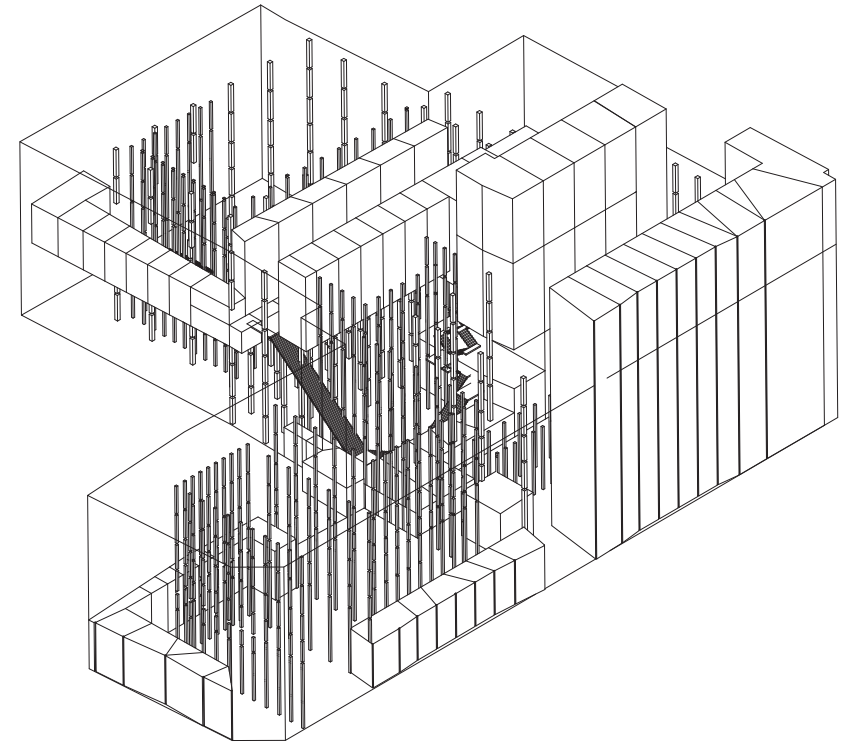


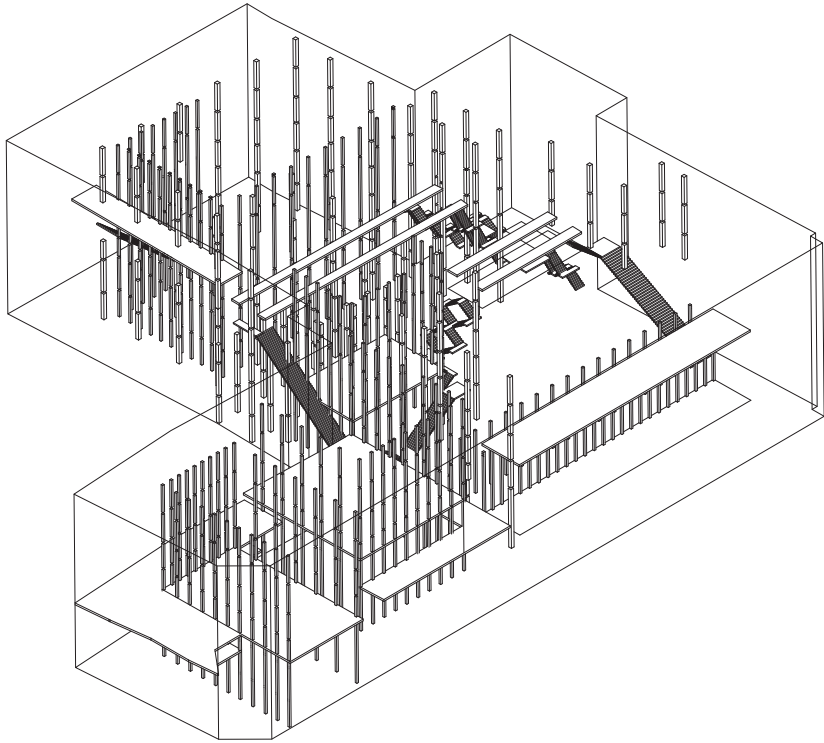
When the typological quality of a space is compromised, the columns are removed.



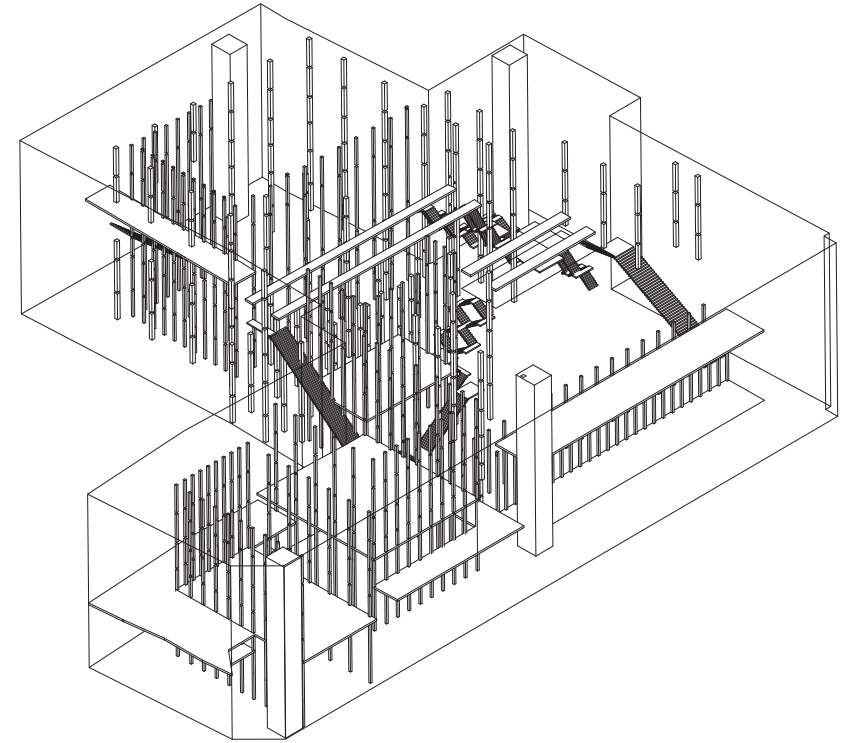


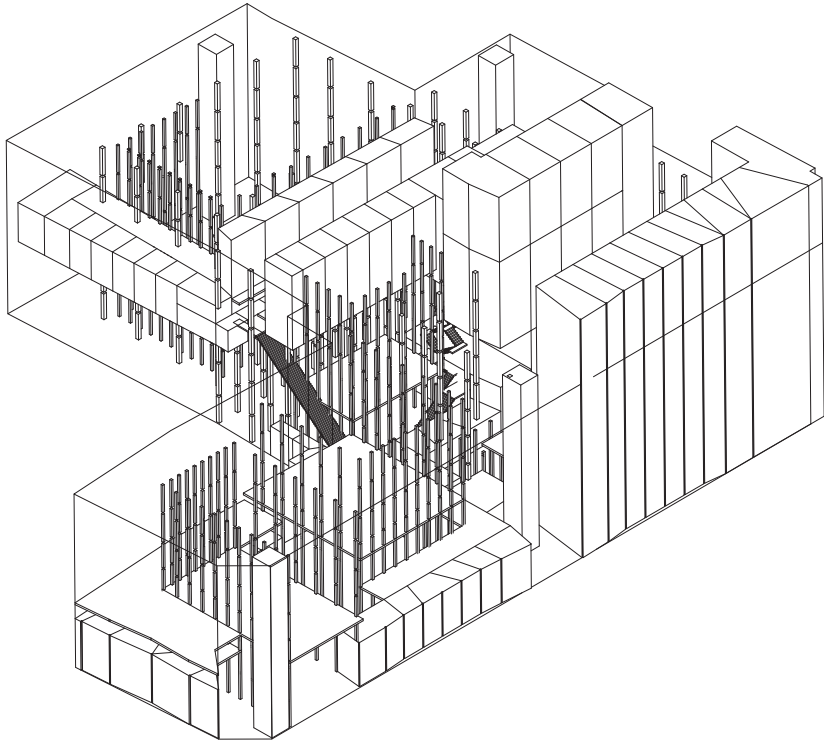
Massing completes the relational logic of the protocol.



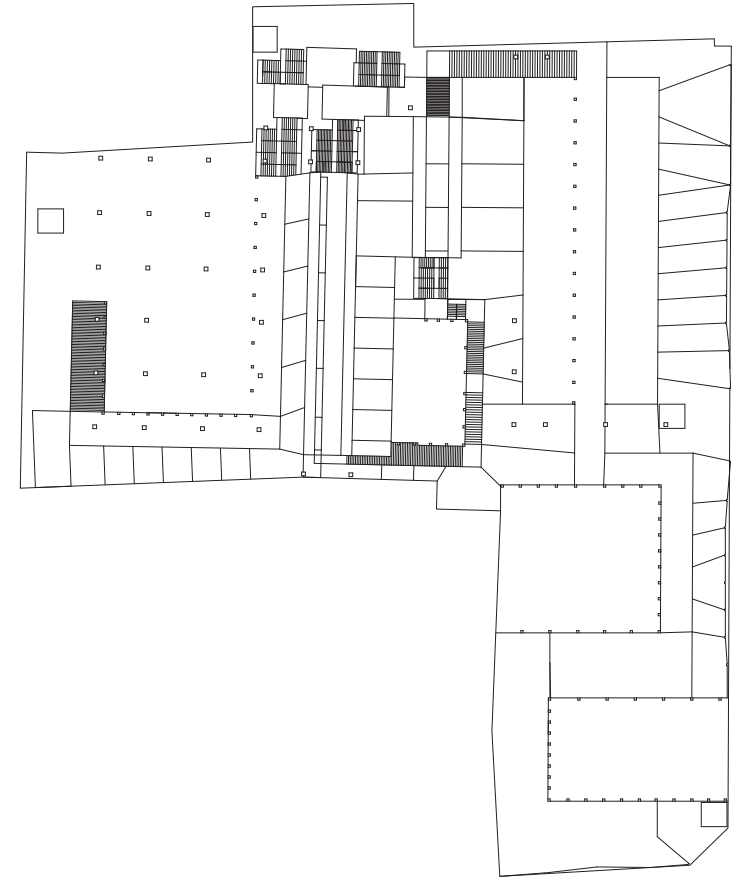


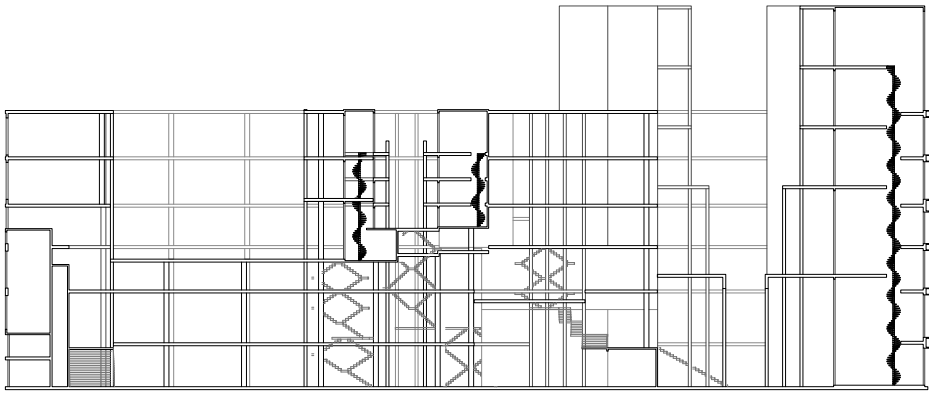
Vertical qualities are applied to the existing floor plates.



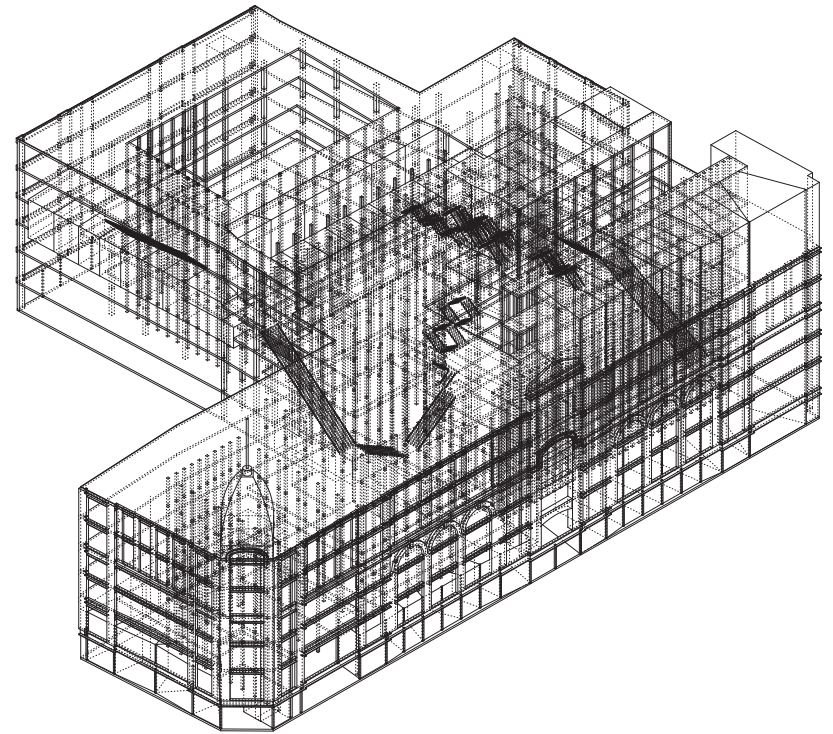


The complete system.

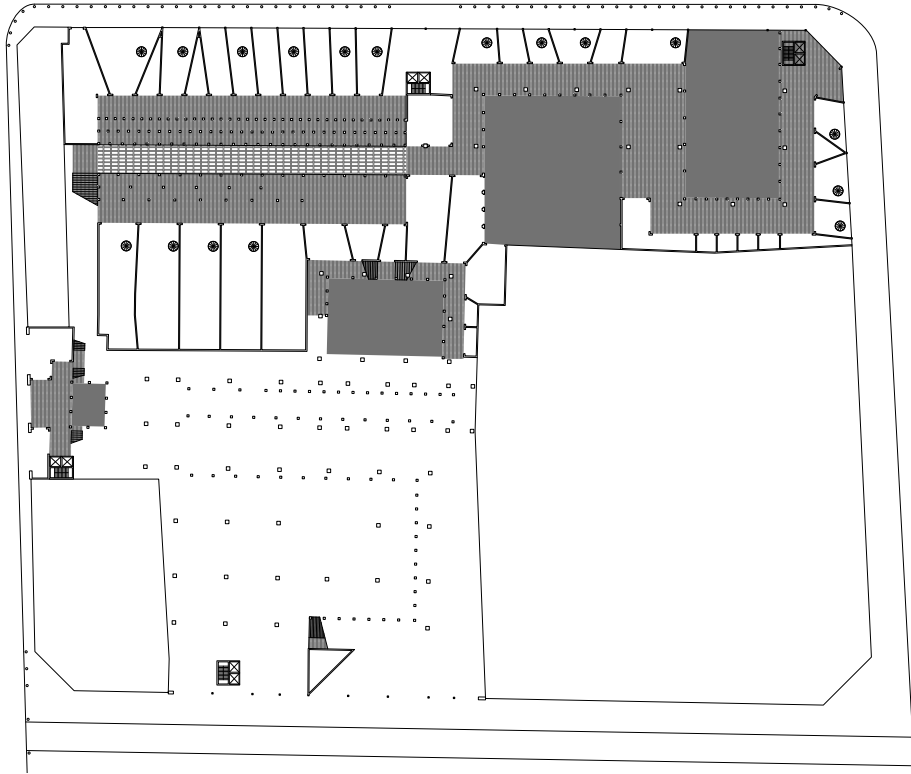




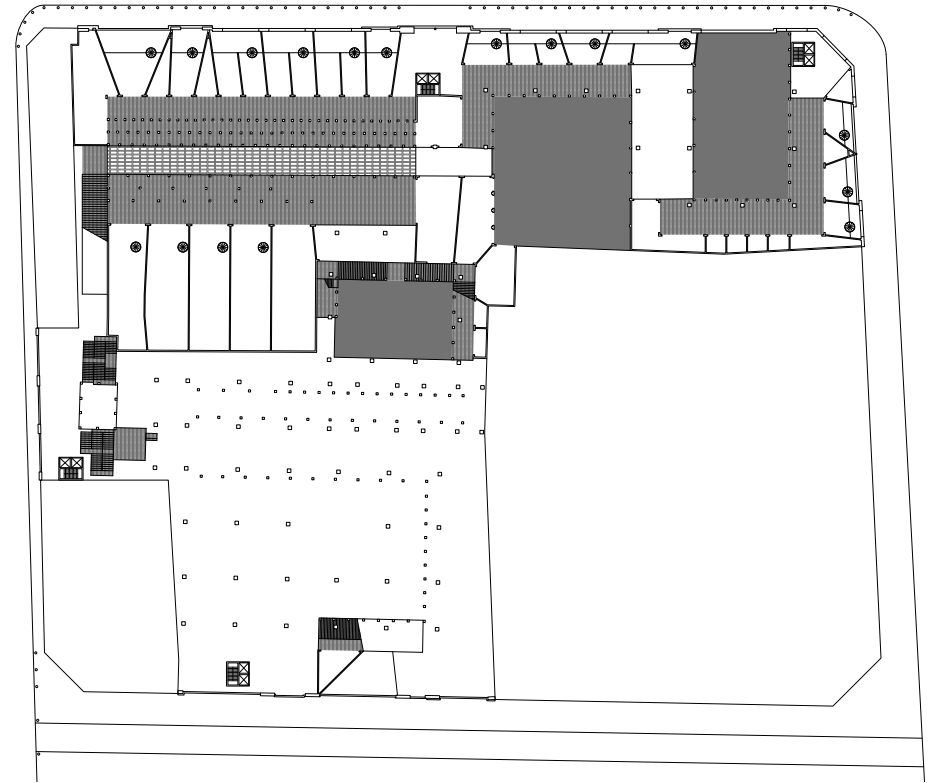
Harrods Building section.

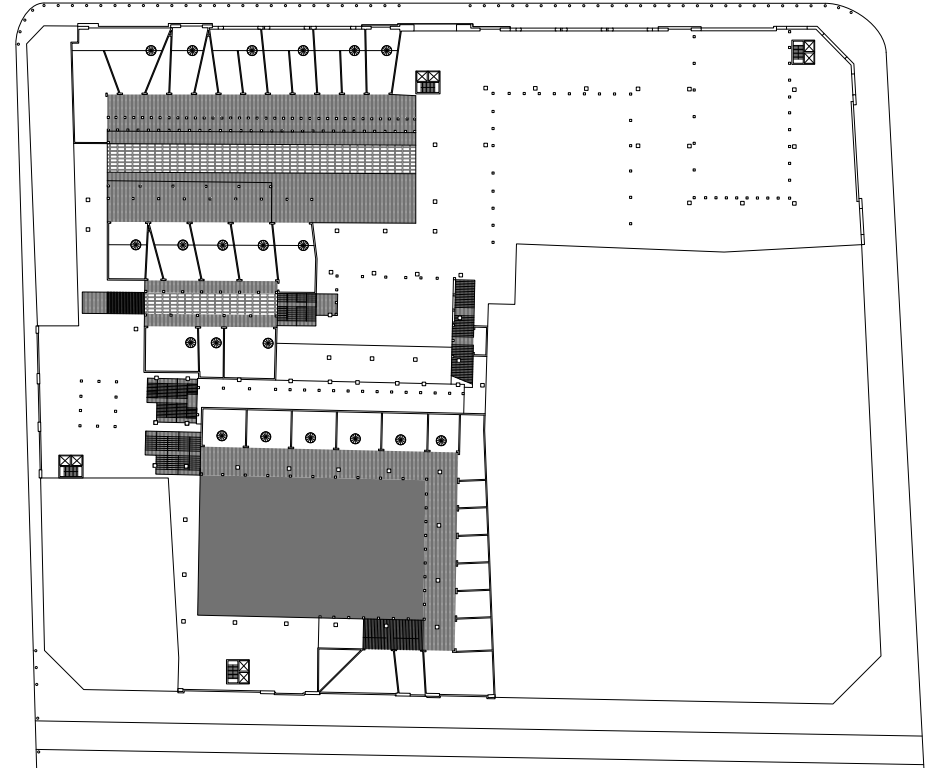
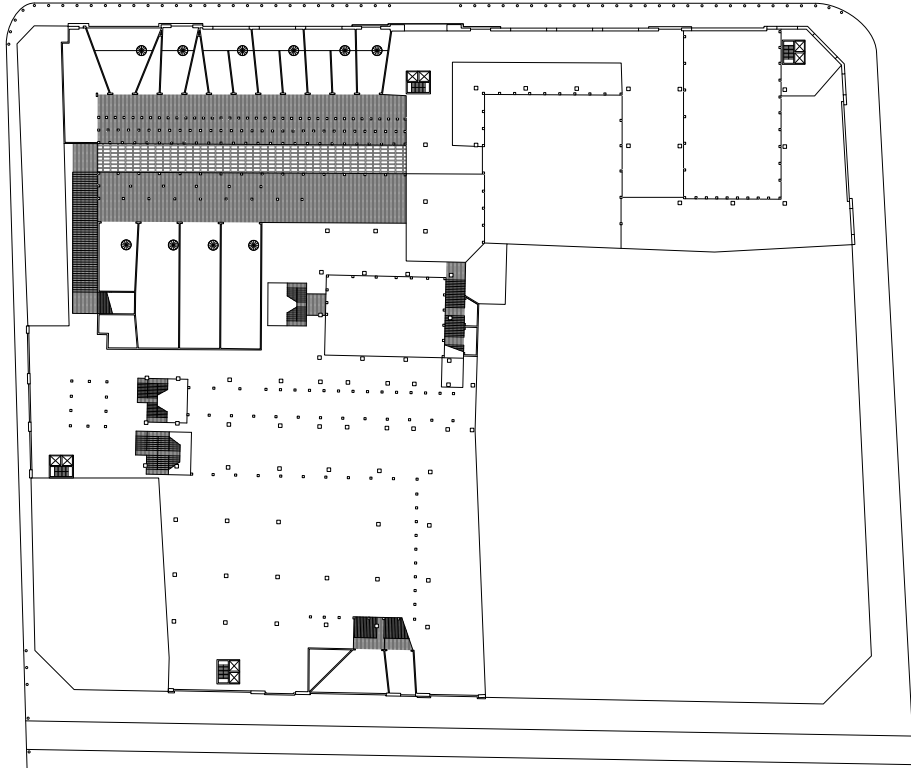


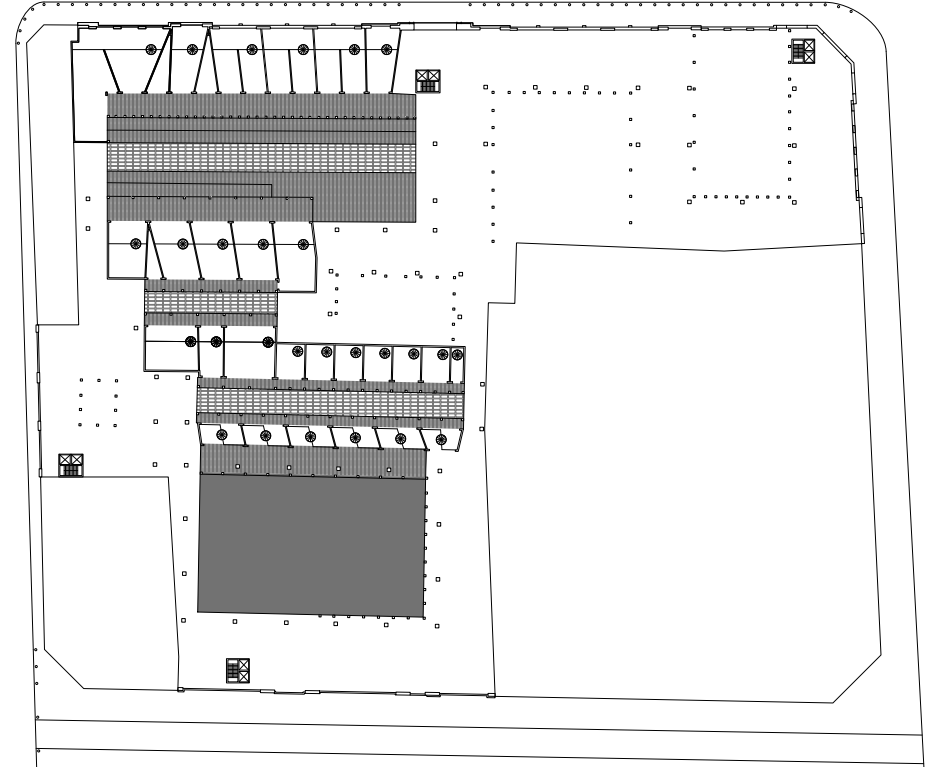
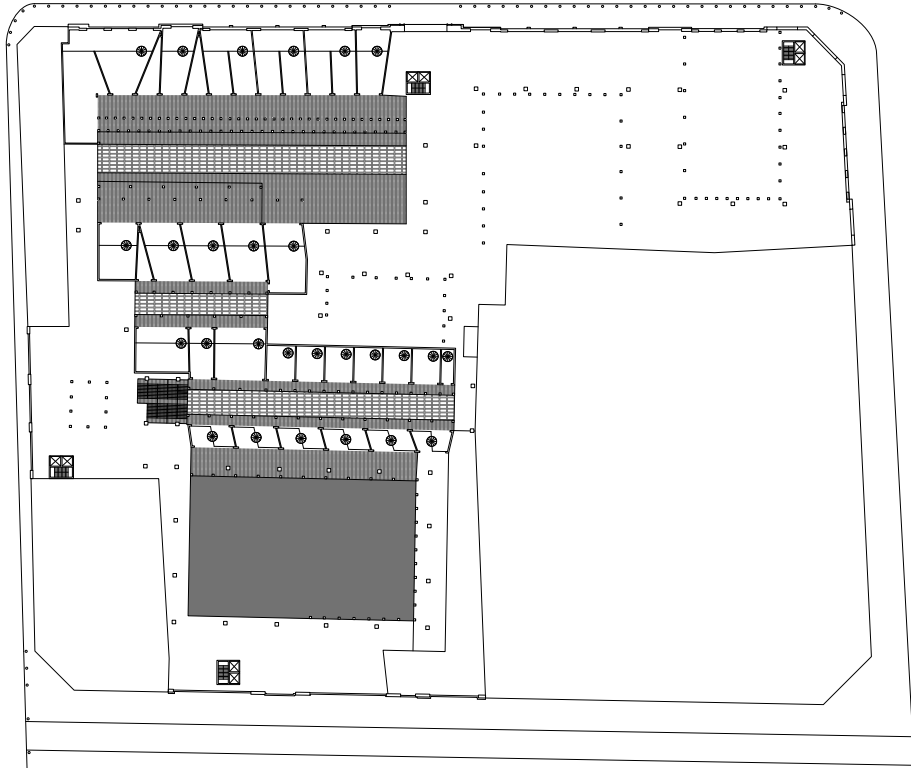
Harrods Building isometric.



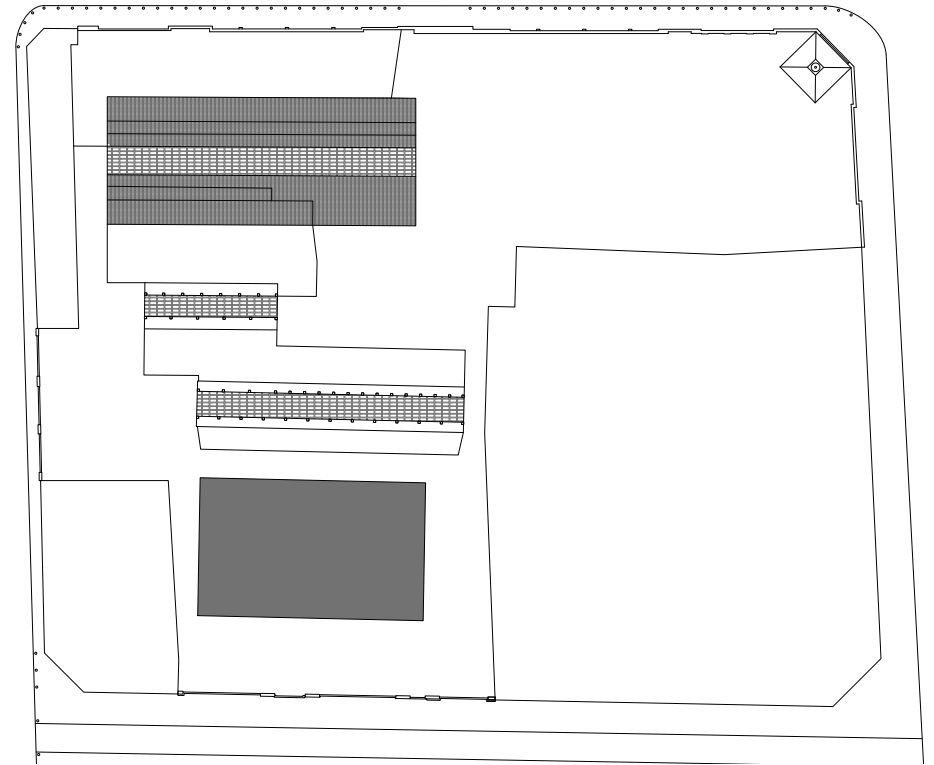
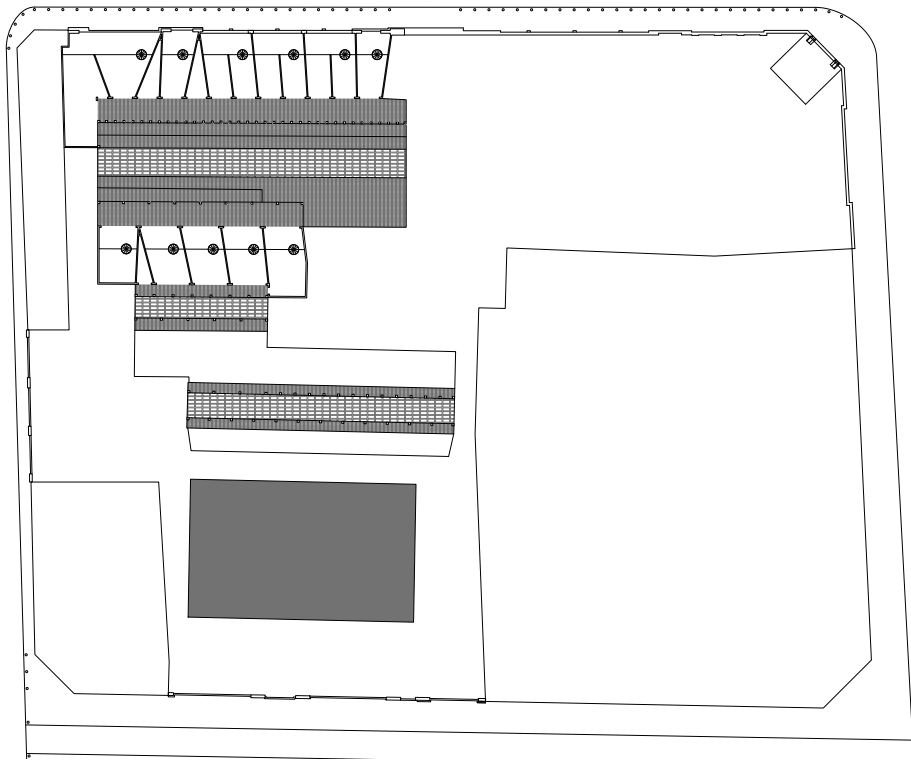
Harrods Building floor plans.





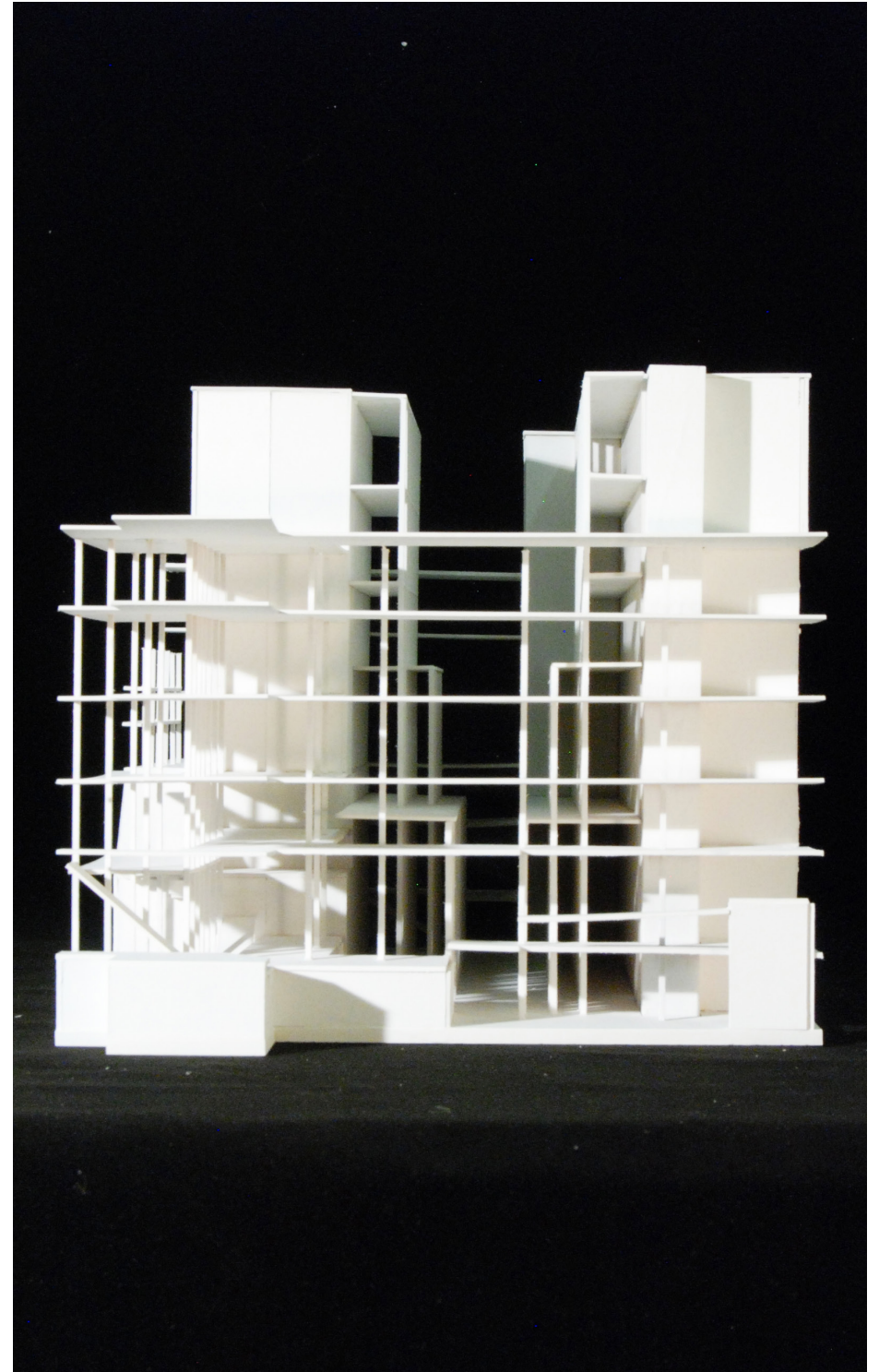




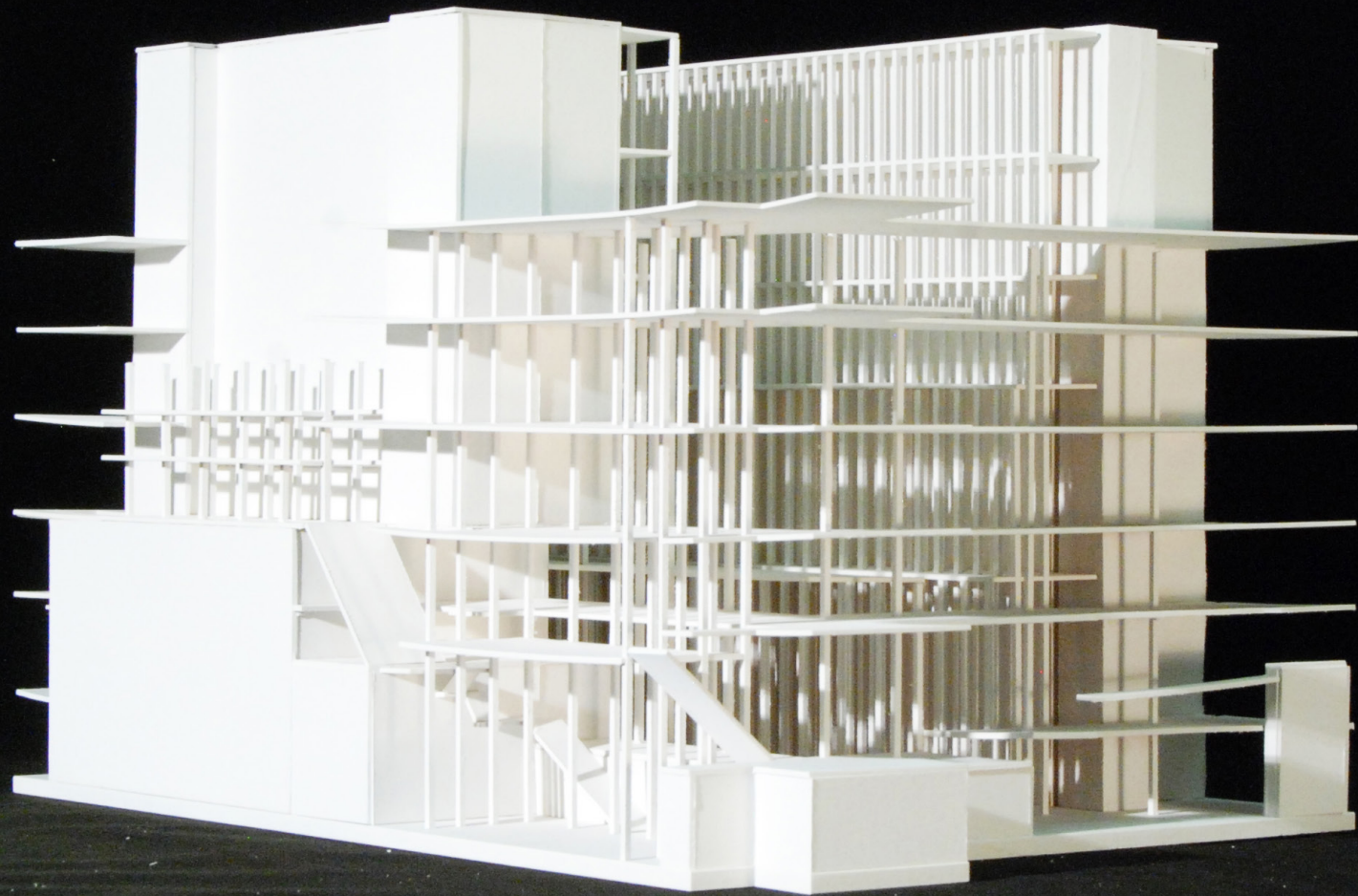




Model. The different condition of typology and vertical circulation are clearly shown.



Architectural qualities create structural redundancies. Here the overlapping arcading system.



# Illustrations

02	22	64-67
Protocol diagram. Author. 2016	Rolex Learning Center. SANAA. 2010	Ranges of the proliferation. Author. 2015
04	24	68
Competition plan for the Berlin Free University, Candilis, Josic & Woods. 1961	Via Roma. Ascanio Vittozzi. Late 16th Century	First iteration within the generic space. Author. 2015
06	26	69
Plan of Rome, Giambattista Nolli. 1748	Galleries Royales. Jean-Pierre Cluysenaer. 1836	Second iteration within the generic space. Author. 2015
09	28	70-71
Model of the domino application. Author. 2015	Piazza Della Signoria. 13th Century	Final model in the generic space. Author. 2015
12	30	74-89
Berlin Free University. Candilis, Josic & Woods. 1963. Photo by Lena Giovanazzi. 2015	Piazza Di Spagna. Francesco De Sanctis. 1717	Protocol diagrams for the specific condition. Author. 2016
14	34-35	90
Holocaust Memorial. Peter Eisenman. 2005	Protocol diagrams from the generic, non-differentiated condition. Author. 2016	Section of the Harrods Building. Author. 2016
16	36	91
Vals Therms. Peter Zumthor. 1996	Proliferation diagram in Merchandise Mart. Author. 2016	Isometric of the Harrods Building. Author. 2016
18	38	92-99
Saitama Prefectural University. Riken Yamamoto. 1999	Merchandise Mart plans. Author. 2016	Plans of the Harrods Building. Author. 2016
20	40	100-103
Matteotti Village. Giancarlo De Carlo. 1971	Merchandise Mart section. Author. 2016	Model of the Harrods Building intervention. Author. 2016
	44-63	
	Protocol diagrams for the generic, differentiated condition. Author. 2015	