



Attraversando Testaccio.

I nuovi spazi del mercato rionale e del sito archeologico del
antico porto dell'Ostiense.

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Anno accademico 2010/2011.



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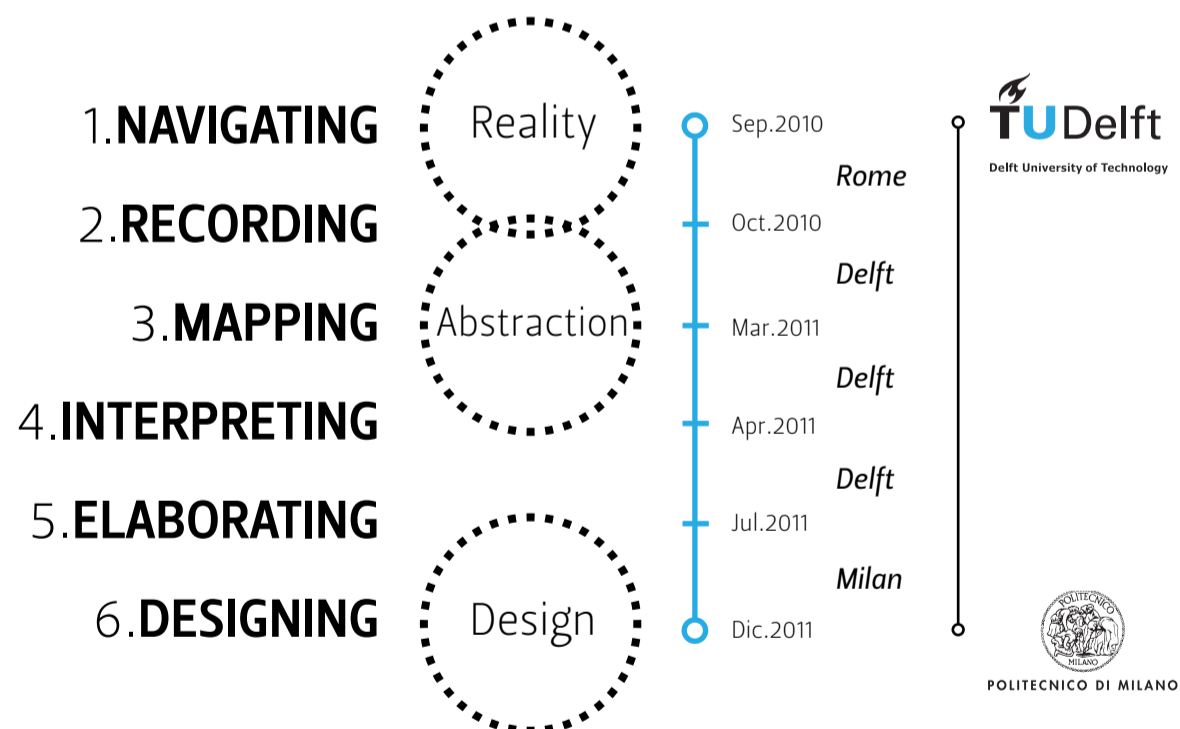
Il contenuto di questo libro raccoglie l'intero processo della mia tesi di laurea sviluppata tra il settembre 2010 l'ottobre del 2011 presso la facoltà di architettura della *Delft University of Technology*, in Olanda, all'interno del *Border Conditions Studio*, laboratorio di progettazione architettonica del dipartimento di *Architecture and Public Buildings*, sotto la supervisione costante del mio relatore del *Politecnico di Milano*, Matteo Aimini, e le fasi finali del progetto tra il novembre e il dicembre 2011 presso il *Politecnico di Milano* stesso.

Il lavoro consiste nel progetto architettonico di un edificio con programma ibrido, mercato rionale e sito archeologico, situato a Roma presso il rione Testaccio. Esso è lo stadio finale di un processo che tende a investigare e affrontare, tramite i mezzi del progetto architettonico, alcuni temi teorici come quelli di passaggio, di soglia, di confine, di traiettoria e di sequenza, attraverso una prima fase di mappatura dei cortili dei condomini romani, concludendosi nella sua ultima fase nel progetto architettonico.

Nelle seguenti pagine vengono sintetizzate le principali tappe di tale percorso, mettendo a fuoco i più importanti passaggi di tutto il processo, i principali punti teorici di interesse esplorati, i punti cruciali del progetto architettonico con le relative posizioni assunte rispetto alle peculiarità e ai problemi incontrati.

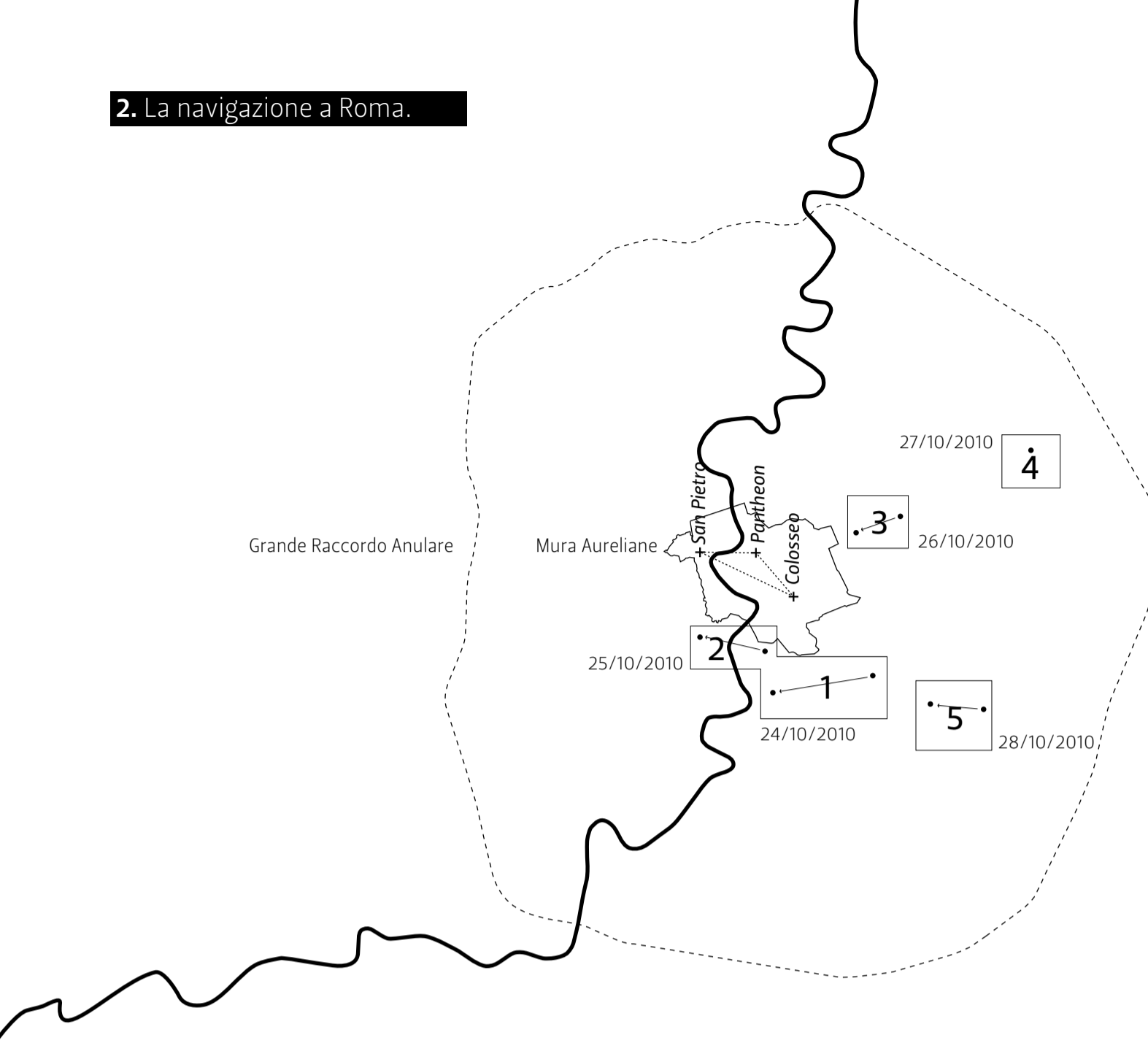
Il libro si divide in tre capitoli principali: La navigazione a Roma, fase di raccolta dei dati a Roma e di selezione del materiale da elaborare; La mappatura, fase di elaborazione di una serie di disegni a supporto del progetto architettonico finale; Il progetto architettonico, risultato finale dell'intero processo.

Riguardo la lingua utilizzata nella stesura del lavoro, esso è in gran parte in inglese dal momento in cui il lavoro è stato svolto in un contesto internazionale.



Img. 01: Diagramma del processo.

2. La navigazione a Roma.



Walk 2



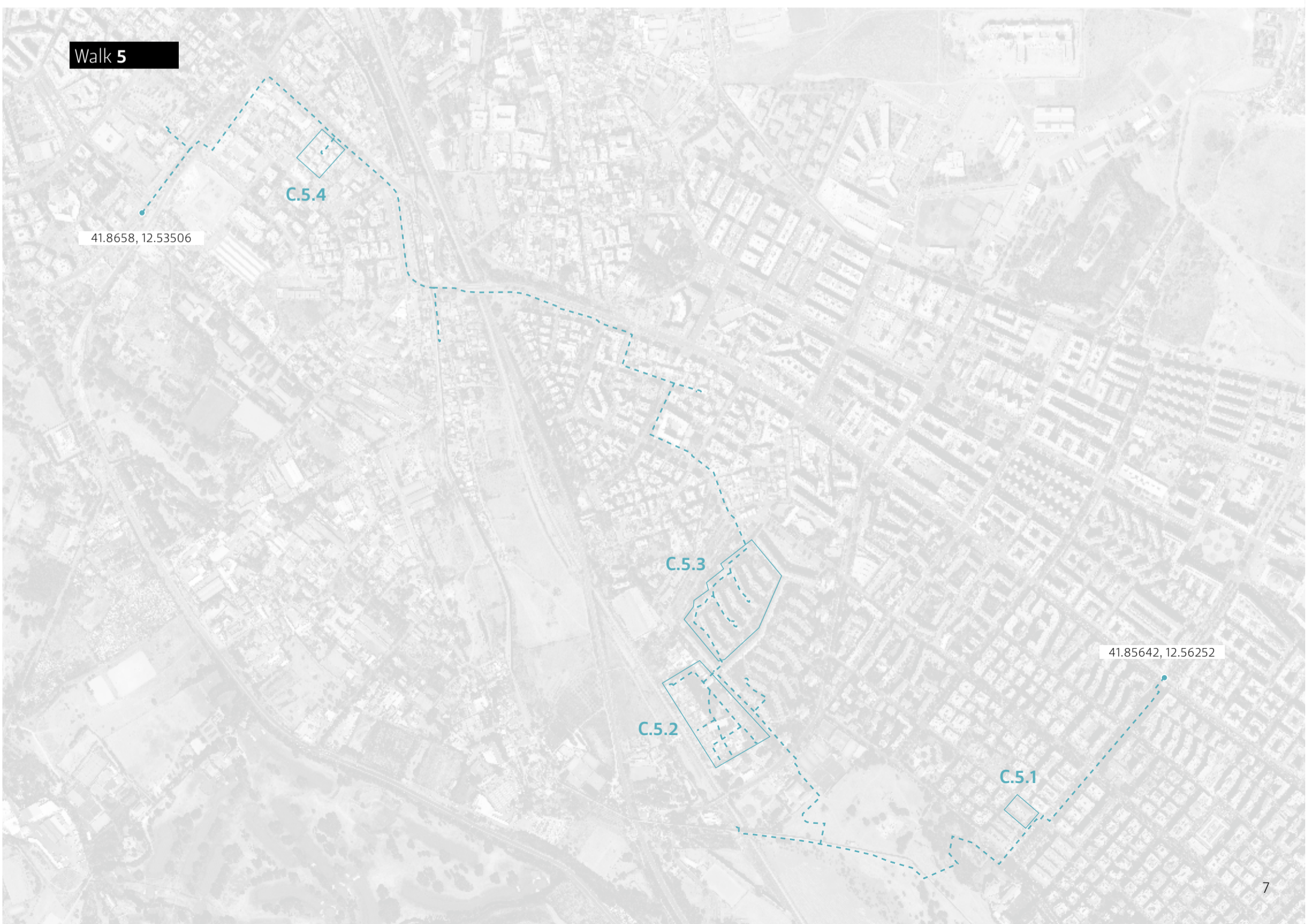
Walk 3



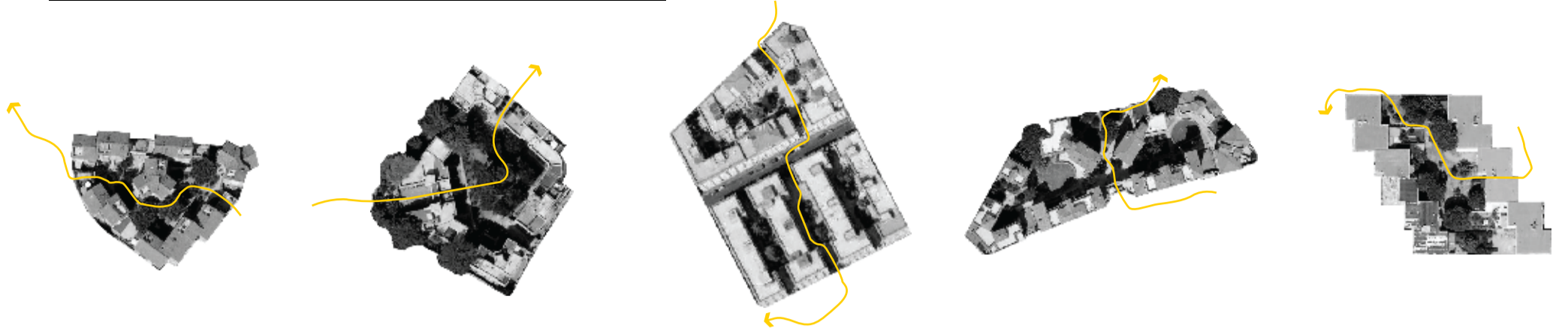
Walk 4



Walk 5



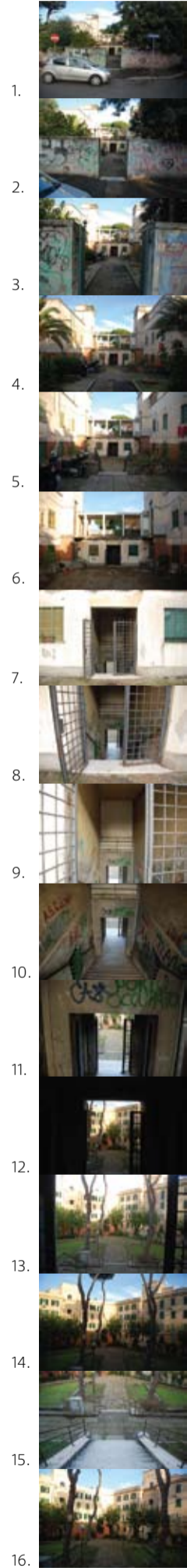
Alcune delle sequenze di immagini registrate.



C.1.4



C.1.6



C.2.8-2.9



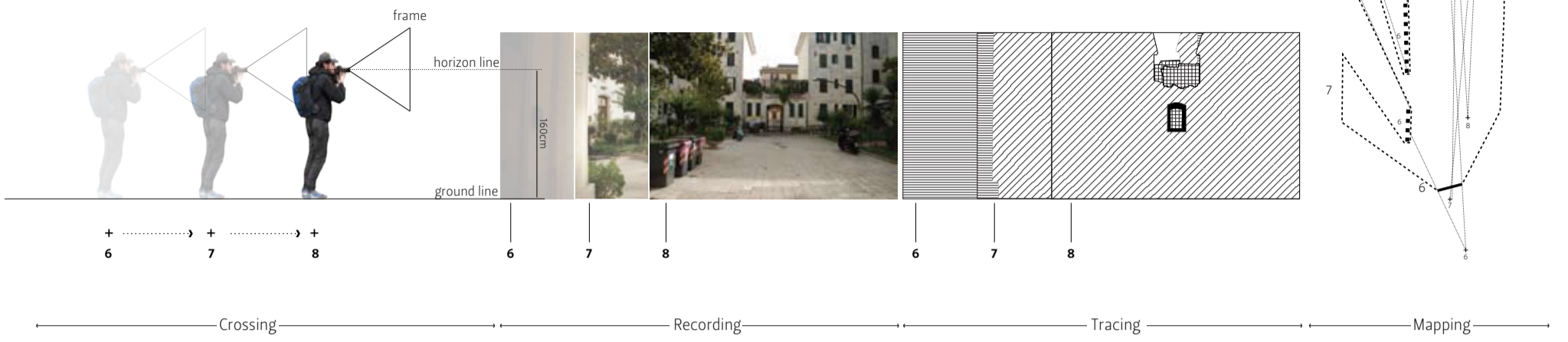
C.3.1



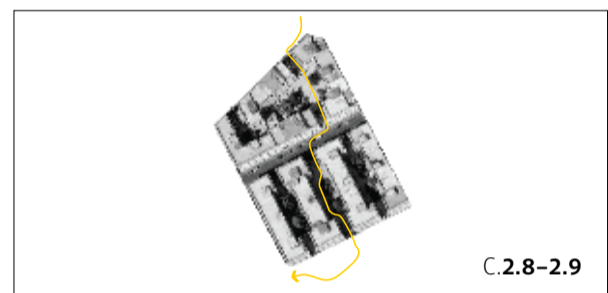
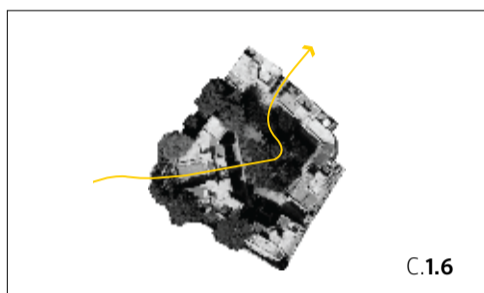
C.4.2



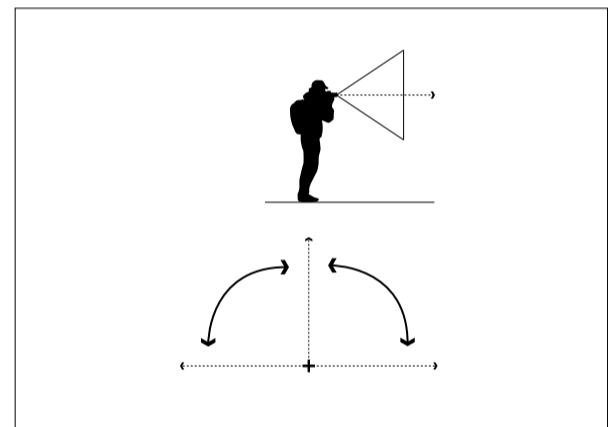
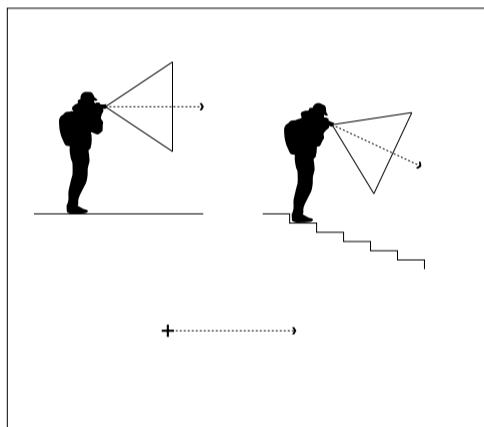
3. La mappatura.



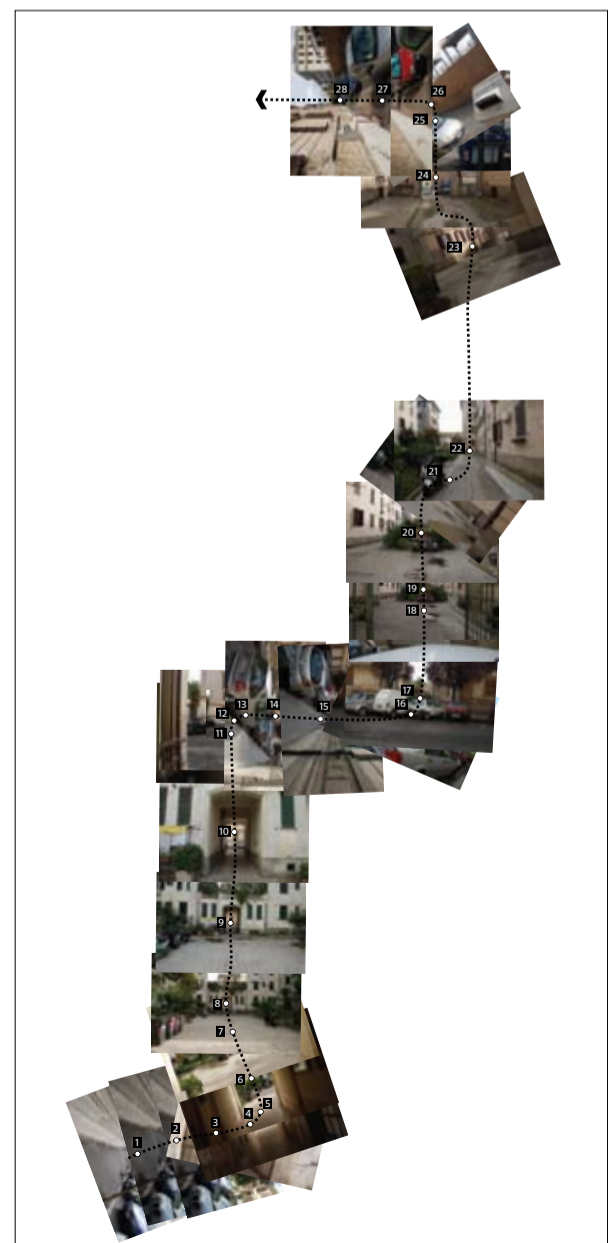
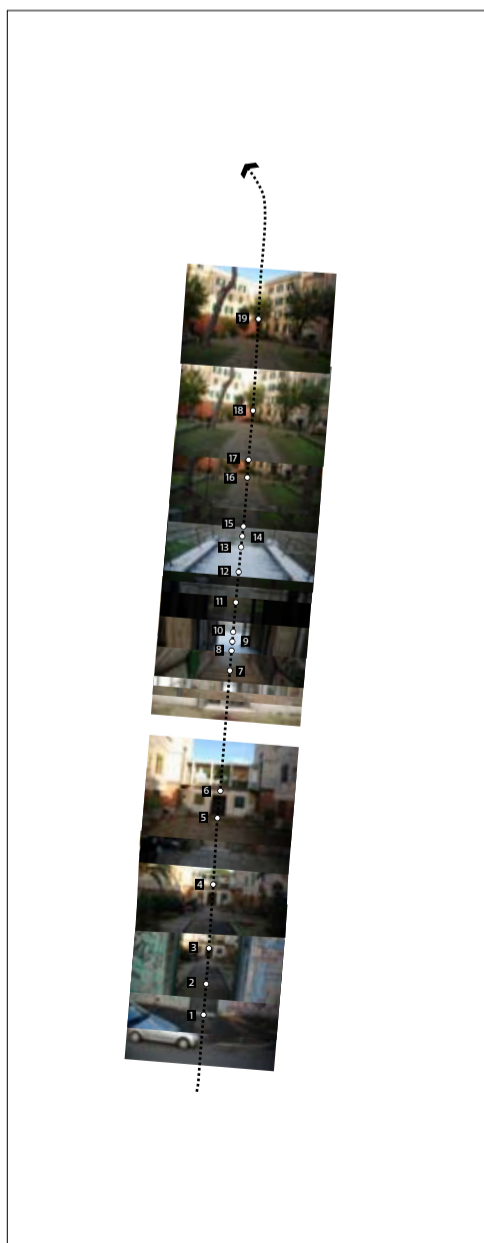
Courtyards crossed:



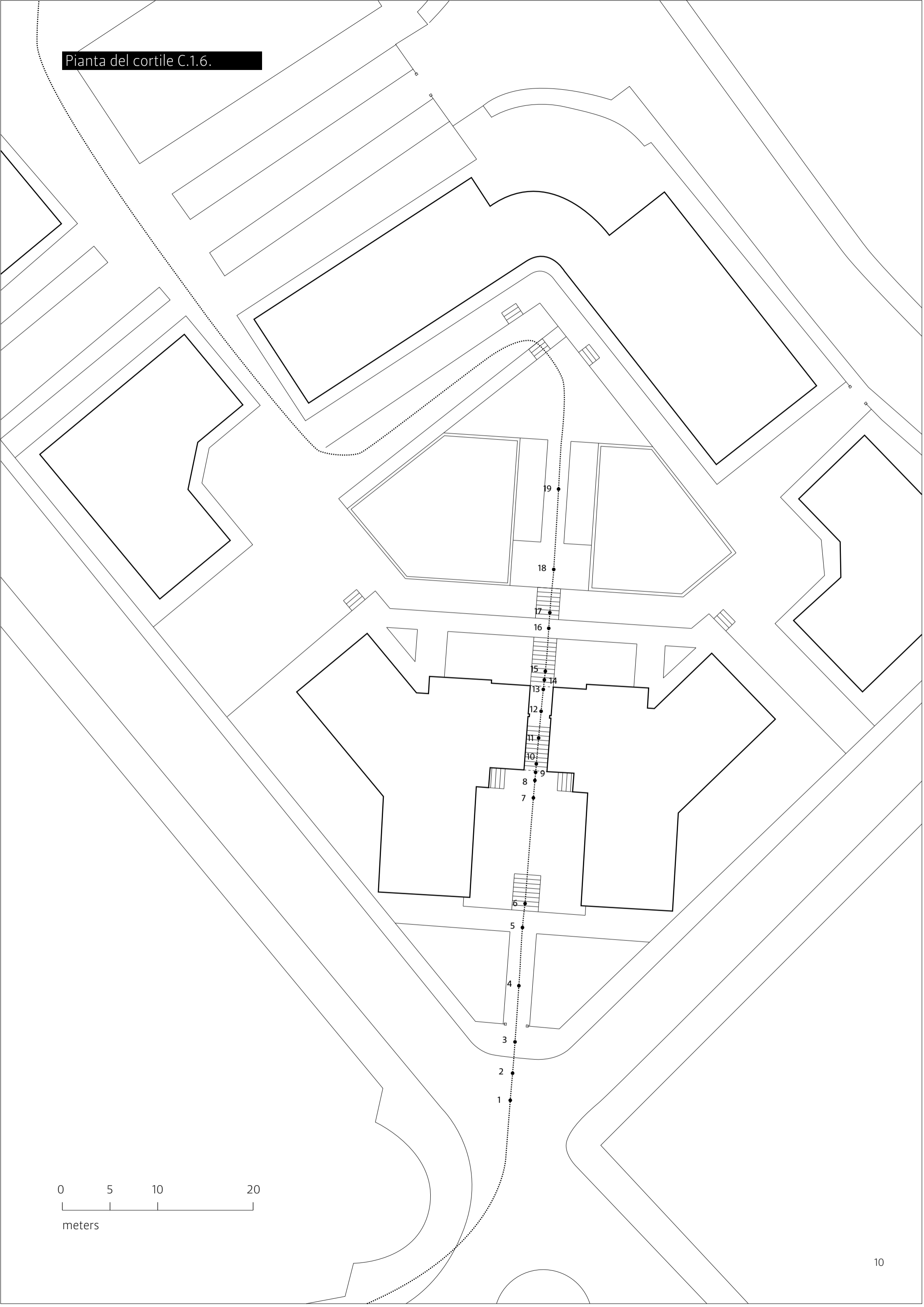
Type of movement:



Type of movement:



Pianta del cortile C.1.6.



0 5 10 20
meters

Analisi sequenza C.1.6.

18.				NO THRESHOLD FOUND
15.				A DIFFERENCE OF LEVEL
12.				AN OPENING, A GATE
10.				TWO OPENINGS, TWO WALLS, A GATE, A CEILING
7.				A CHANGE OF LEVEL (A STAIRS), TWO WALLS, A CEILING
6.				A VOID IN A MASS (THE BUILDING) A GATE
4.				DIFFERENCE OF LEVEL, DISCONTINUITY IN A LOW FENCE A VOLUME (PART OF A BUILDING)
1.				A DISCONTINUITY IN A WALL-FENCE

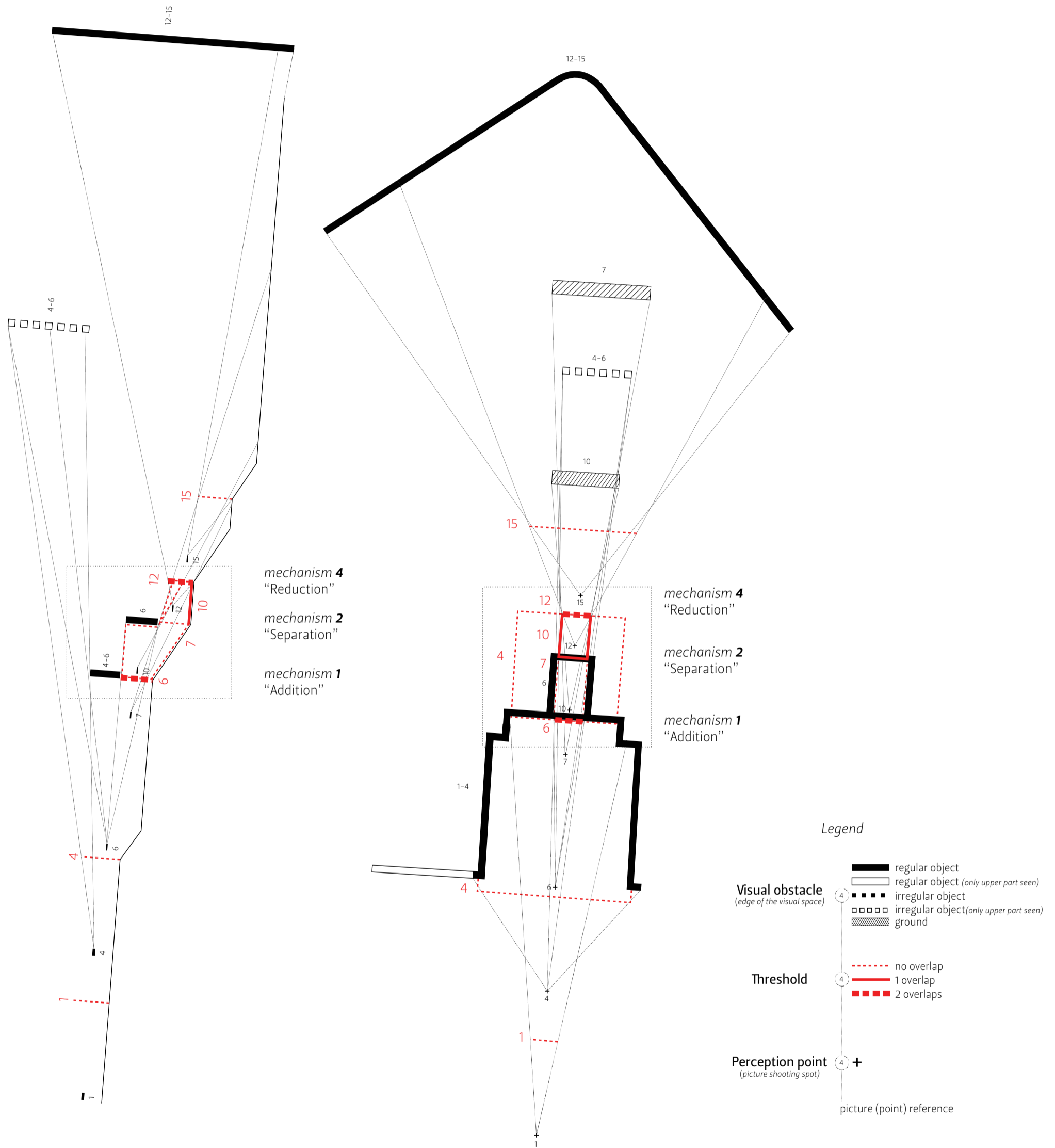
Selection of meaningful moment within the trajectory.
(moment in which you can recognize a new space)

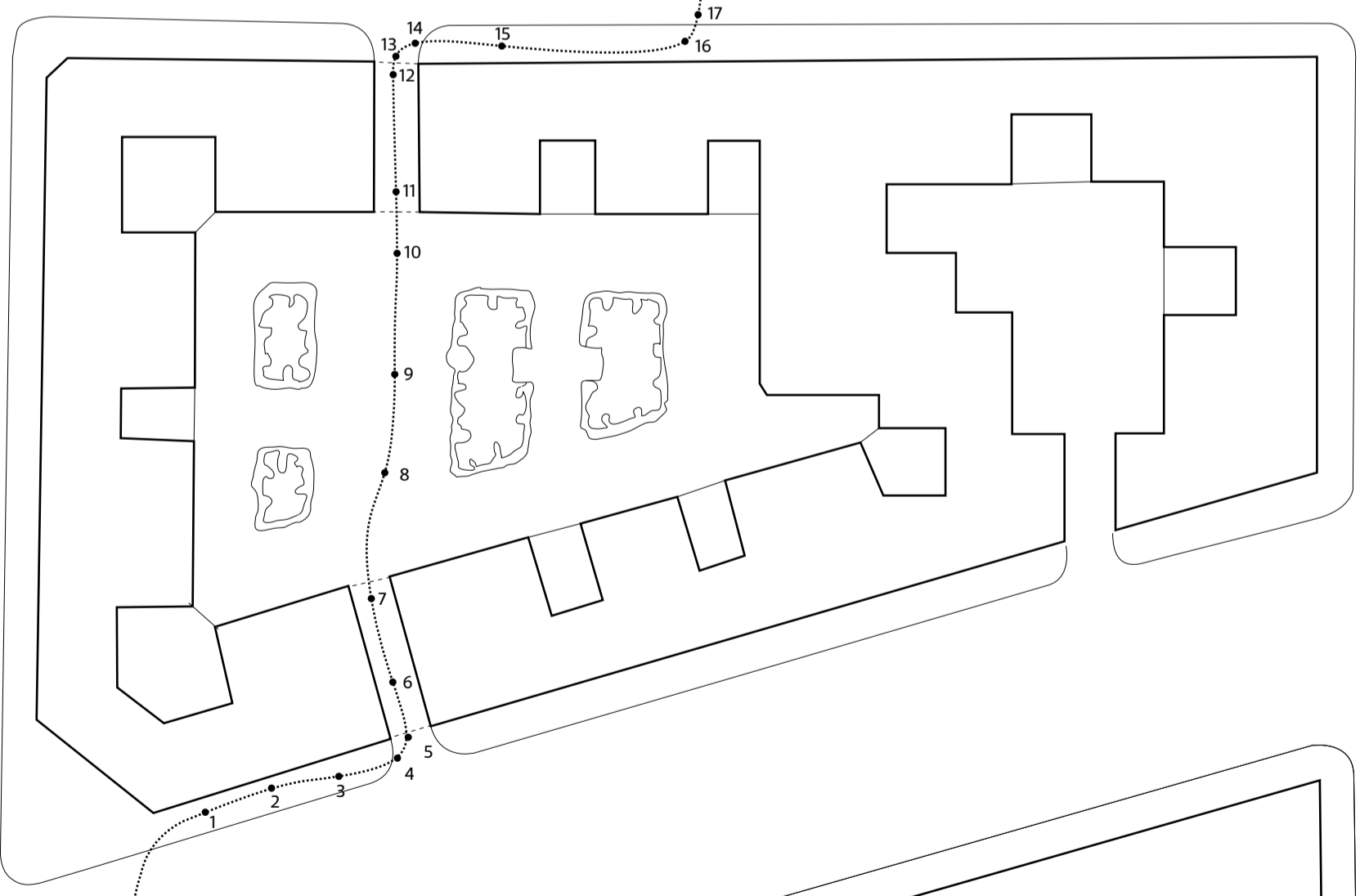
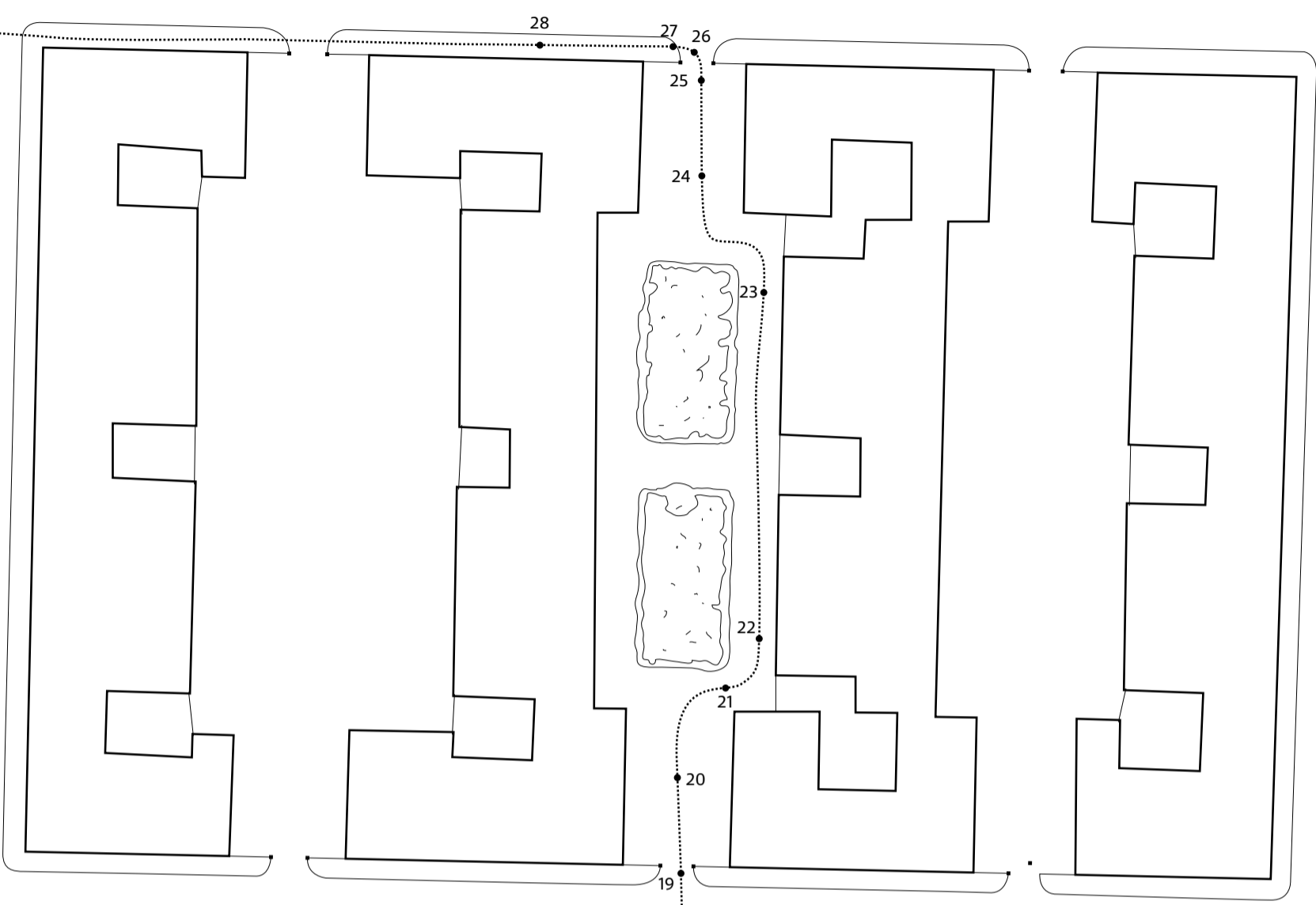
Threshold localization.

Relationship diagrams.
(perception - localization of threshold)

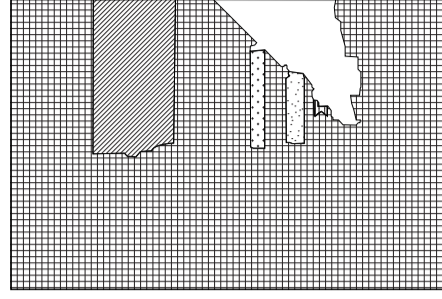
Threshold Sampling.
(with short description)

Mapa diagrammatica delle soglie nella sequenza C.1.6.

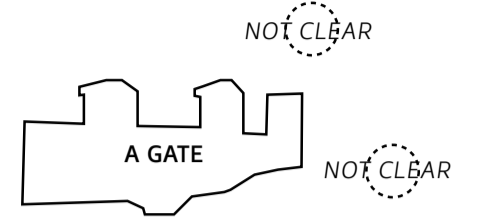
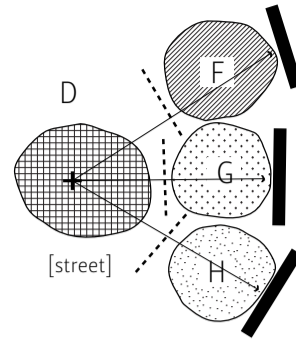




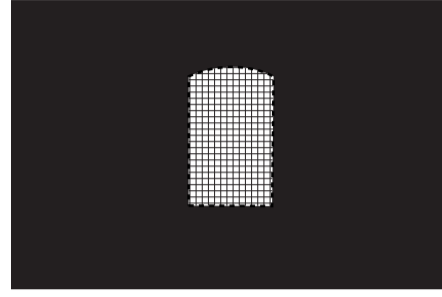
14.



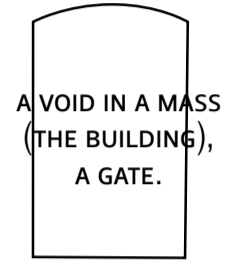
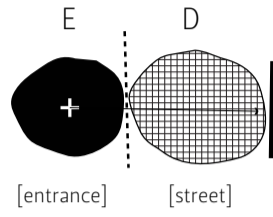
- D
- F
- G
- H



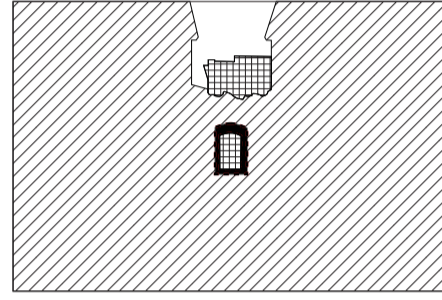
11.



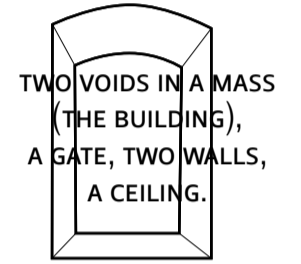
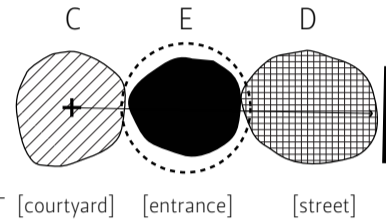
- D
- E



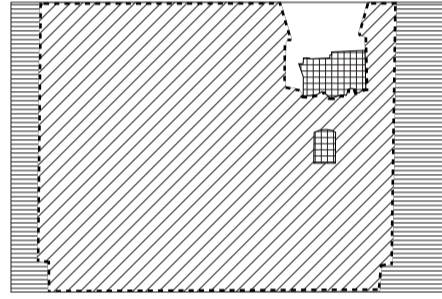
8.



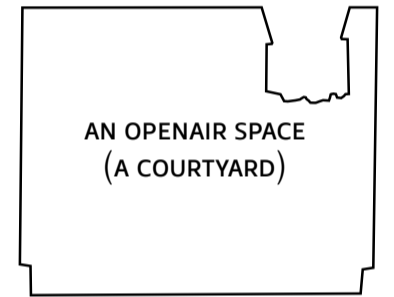
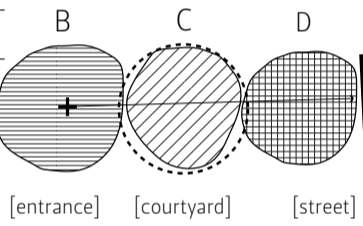
- C
- E
- D



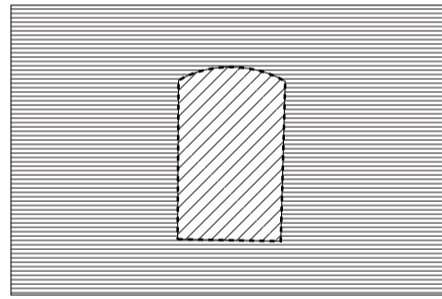
7.



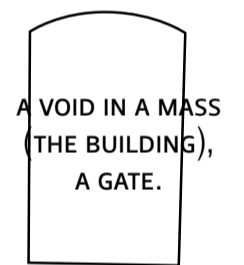
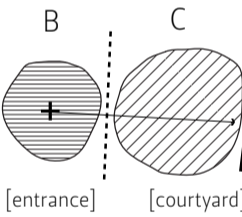
- B
- C
- D



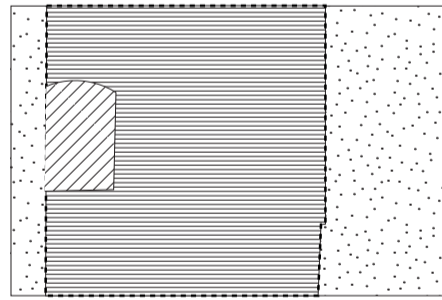
6.



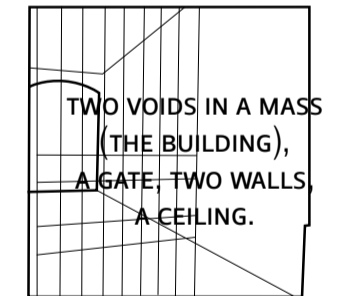
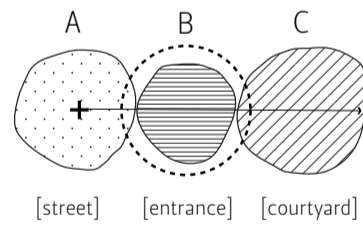
- B
- C



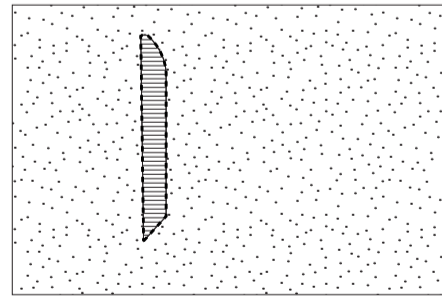
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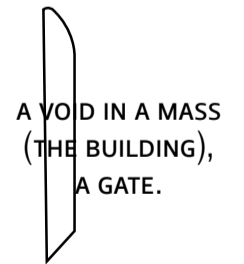
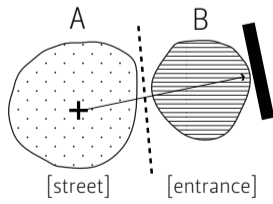
- A
- B
- C



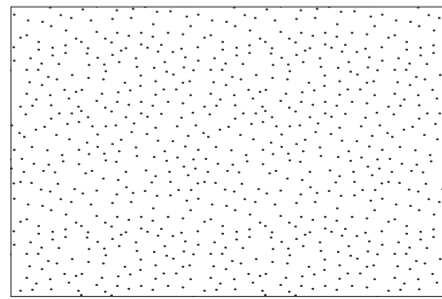
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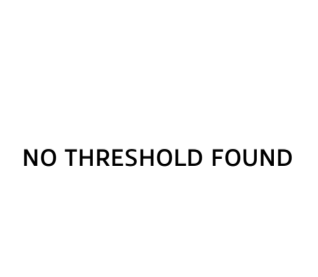
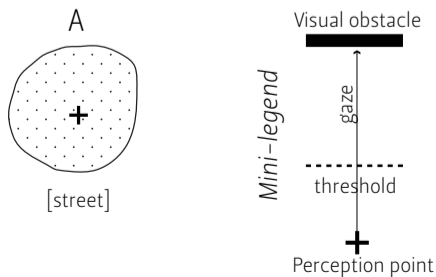
- A
- B



1.



- A

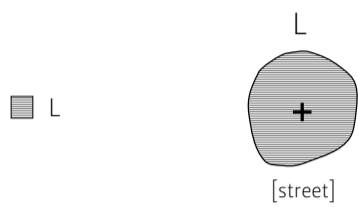


Selection of meaningful moment within the trajectory.
(moment in which you can recognize a new space)

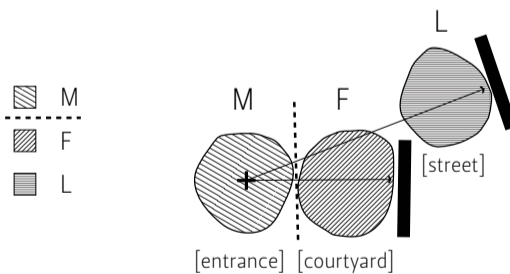
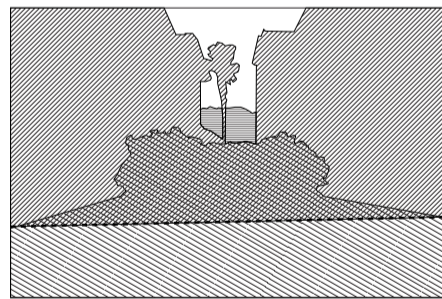
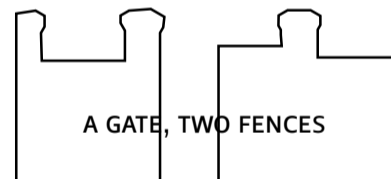
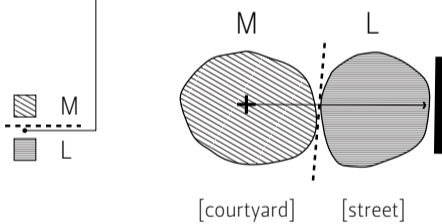
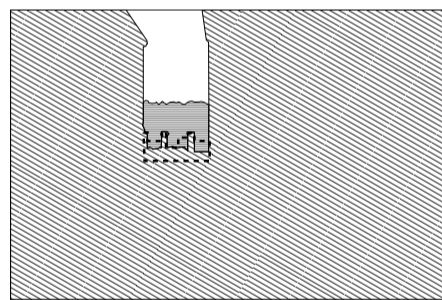
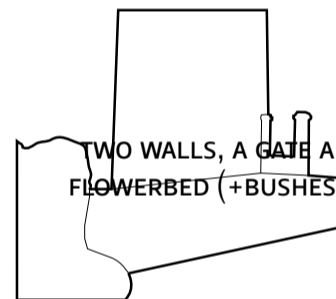
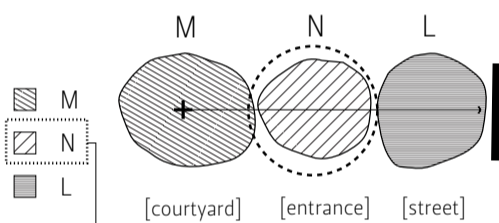
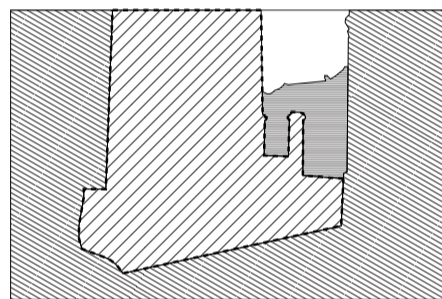
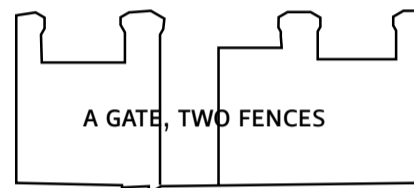
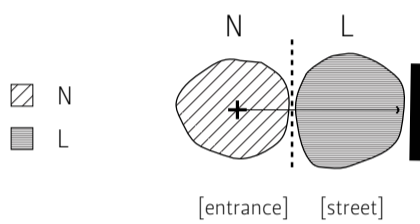
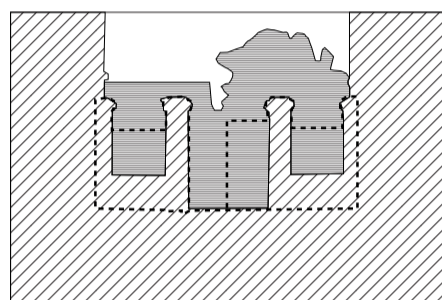
Threshold localization.

Relationship diagrams.
(perception-localization of threshold)

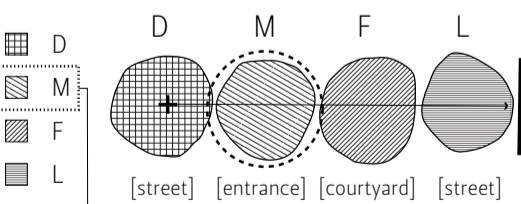
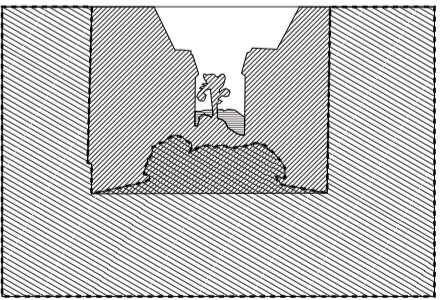
Threshold Sampling.
(with short description)



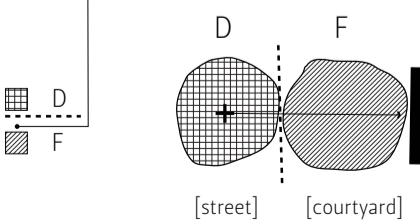
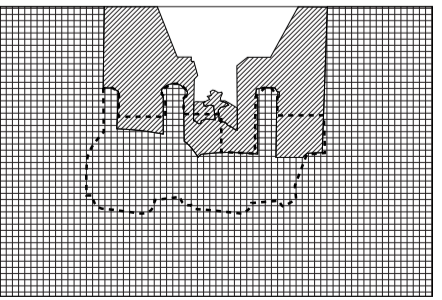
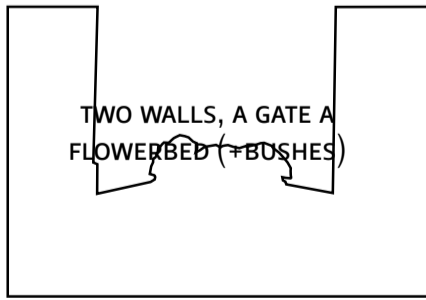
NO THRESHOLD FOUND



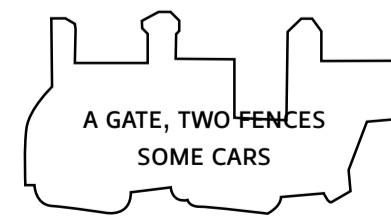
AN IMMAGINARY LINE

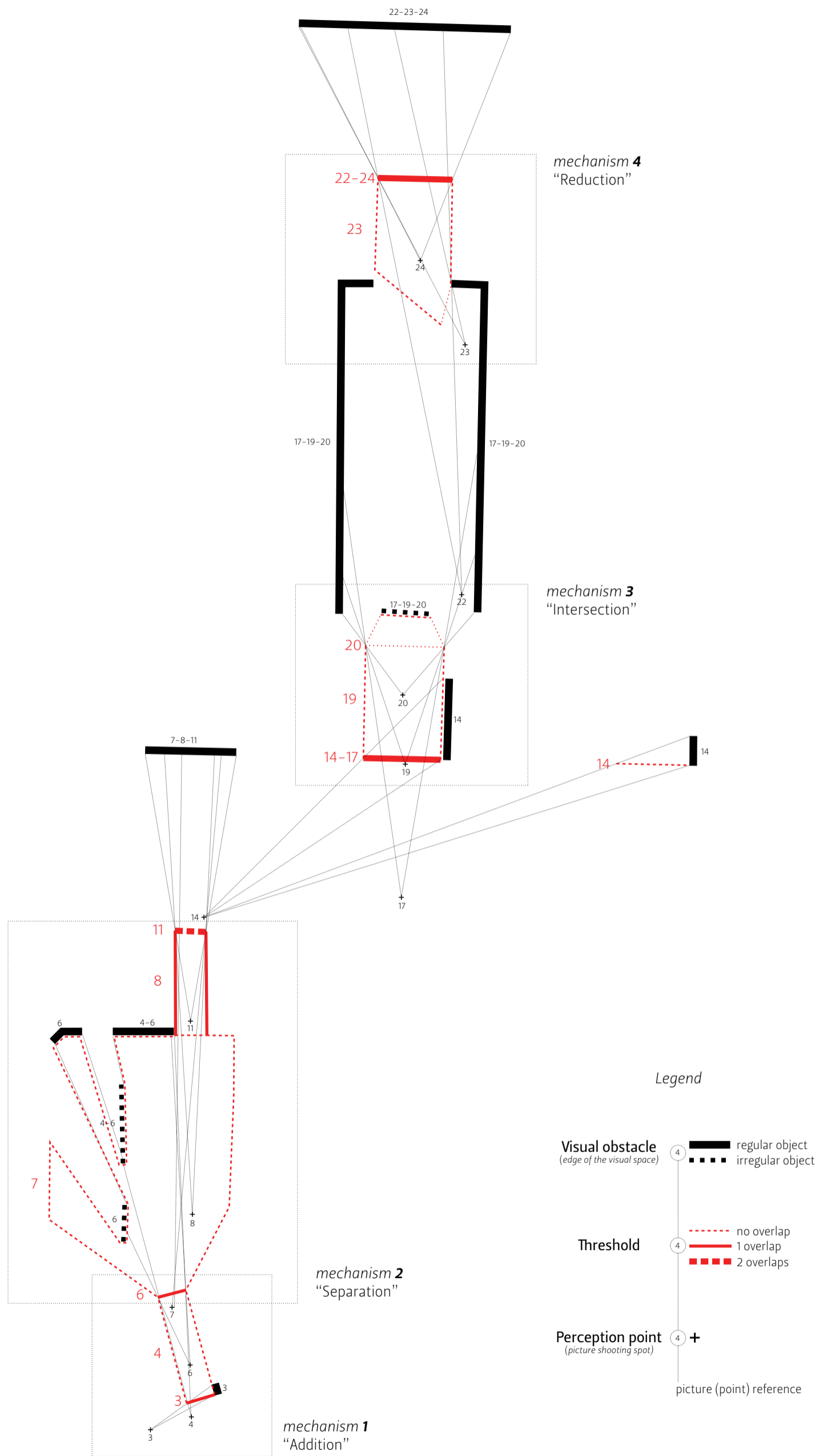


TWO WALLS, A GATE A FLOWERBED (+BUSHES)

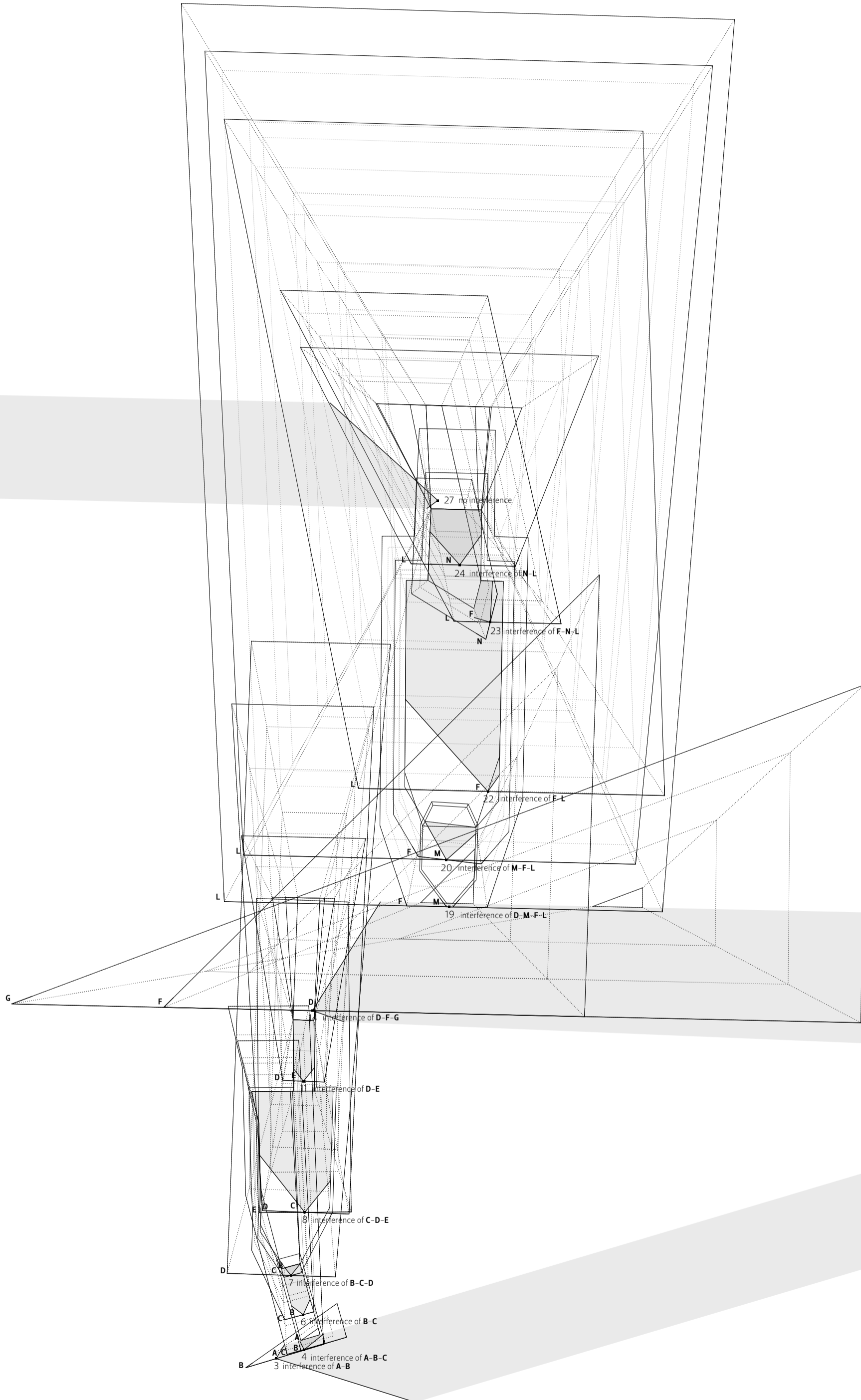


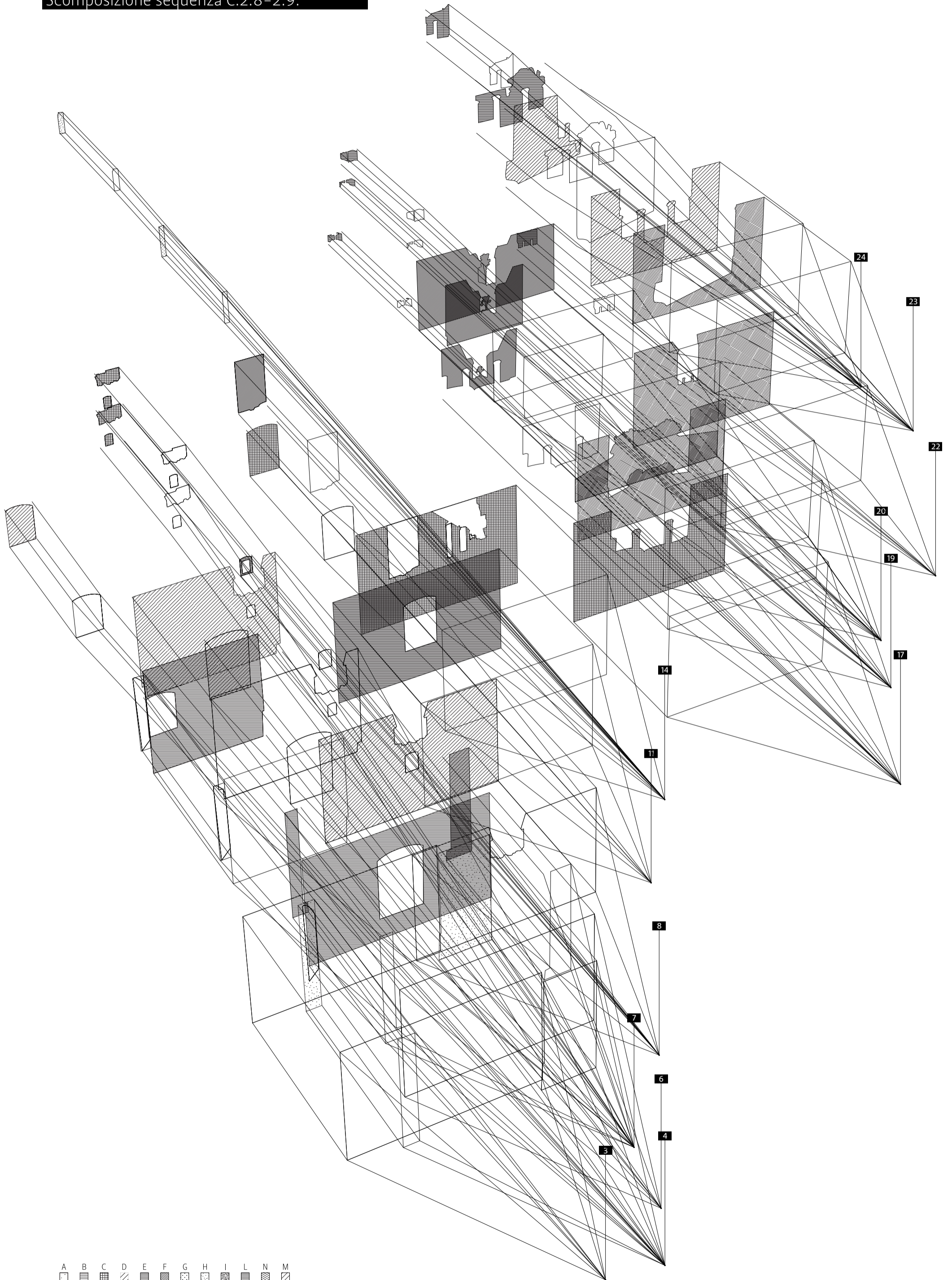
A GATE, TWO FENCES SOME CARS





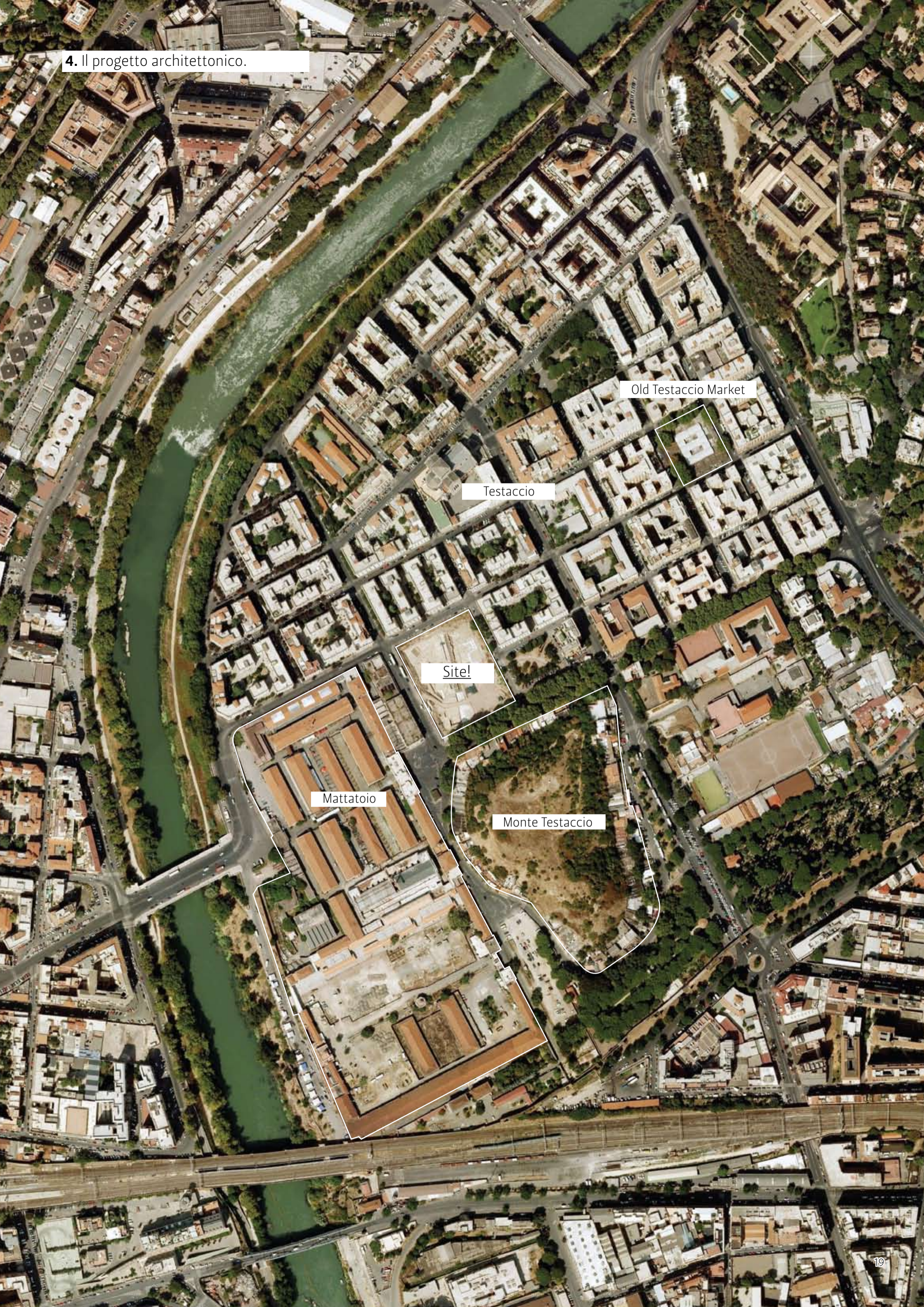
Mapa delle interferenze nella sequenza C.2.8-2.9.





- A
- B
- C
- D
- E
- F
- G
- H
- I
- L
- N
- M

4. Il progetto architettonico.



Old Testaccio Market

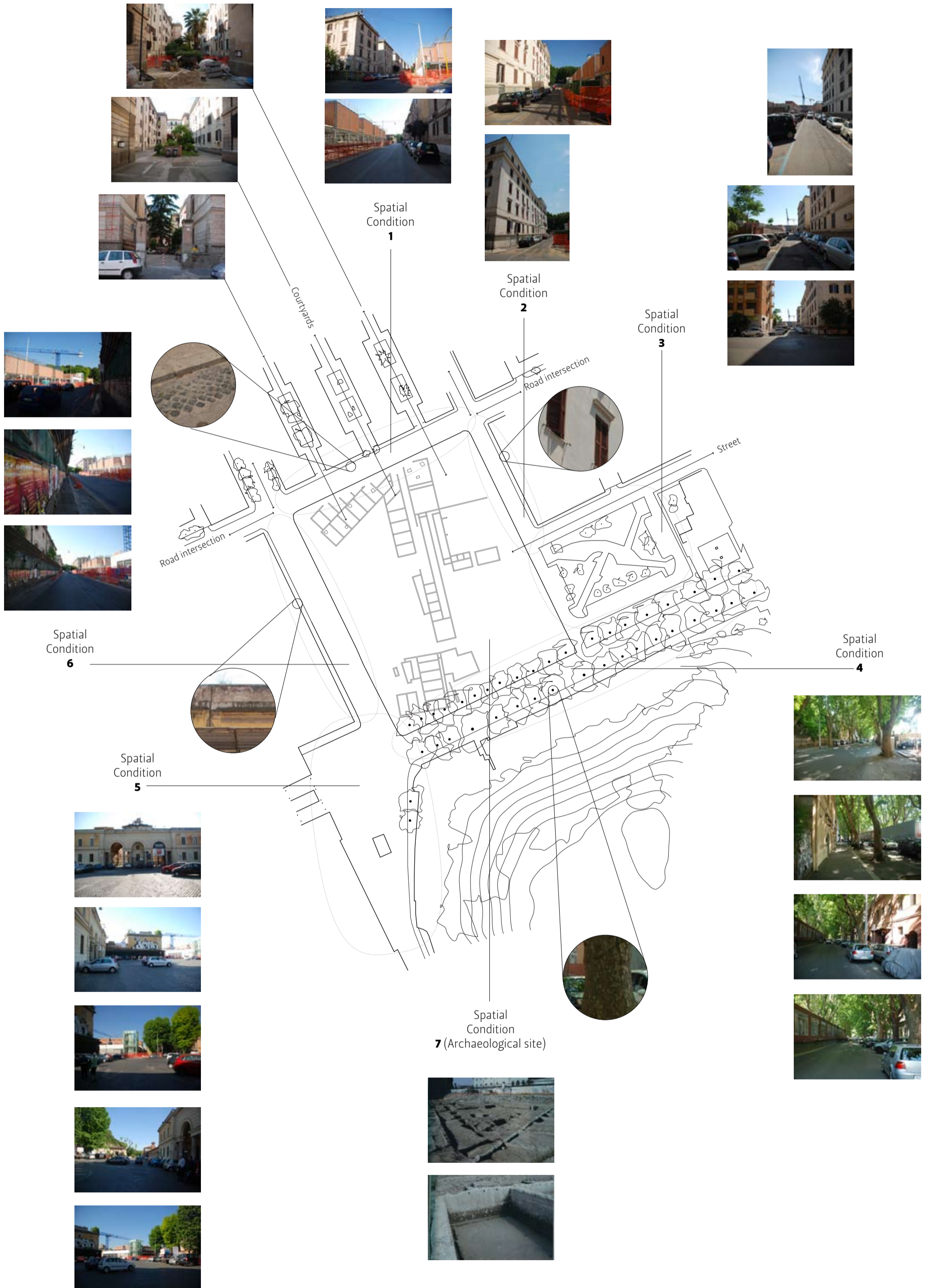
Testaccio

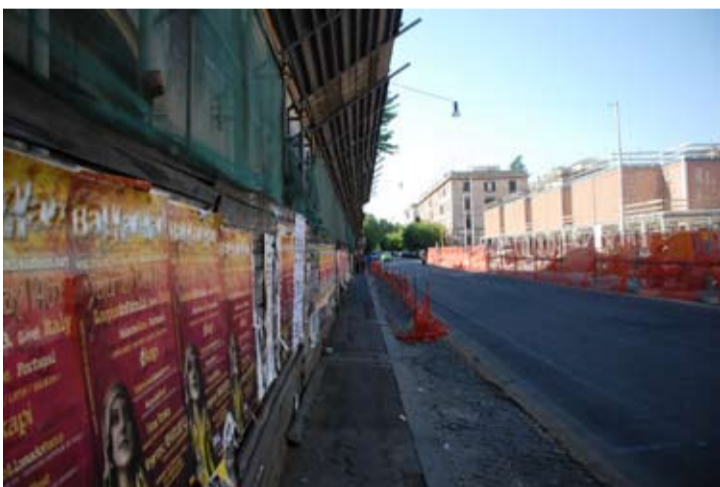
Site!

Mattatoio

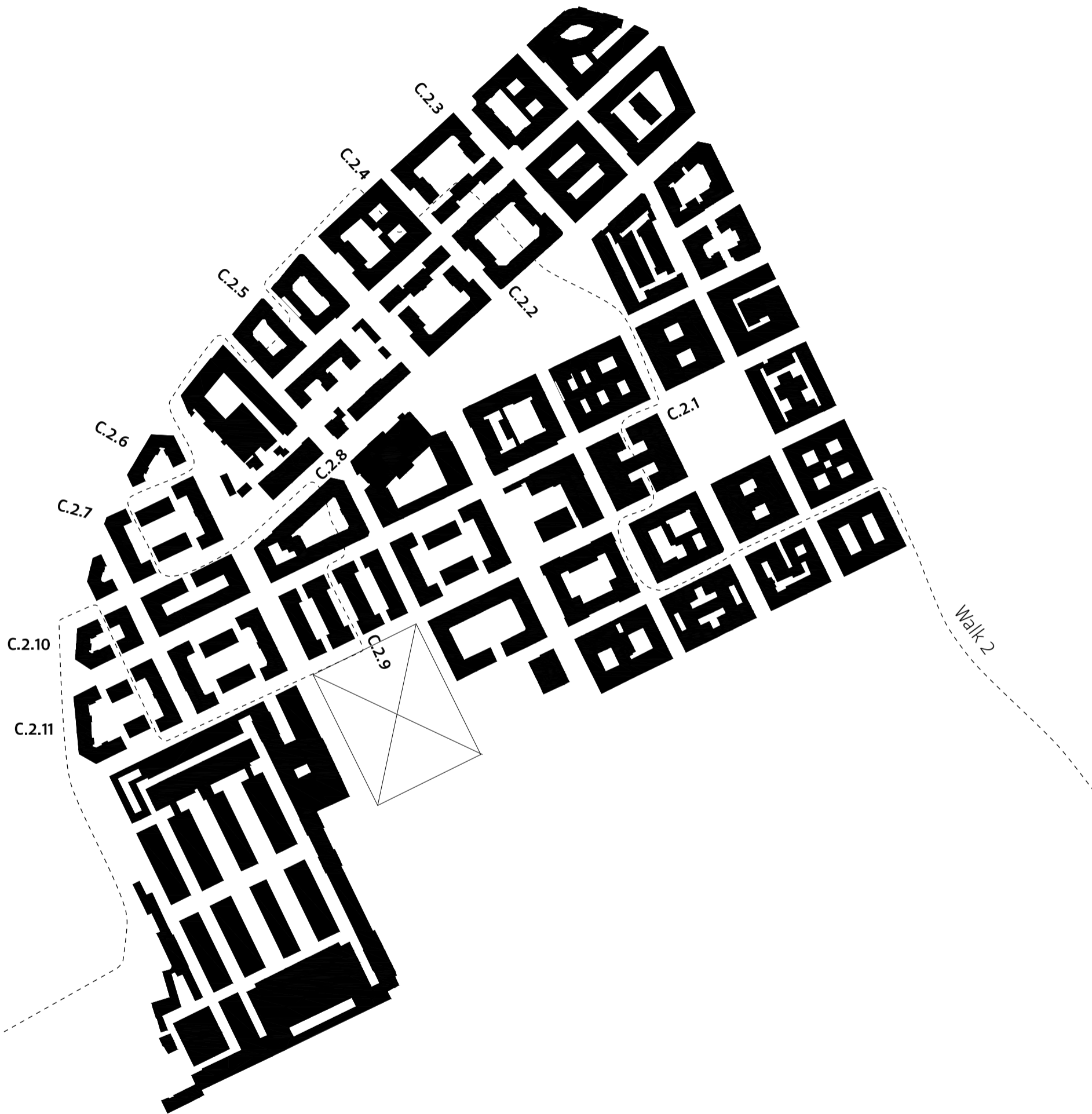
Monte Testaccio

Contesto dell'area di progetto.



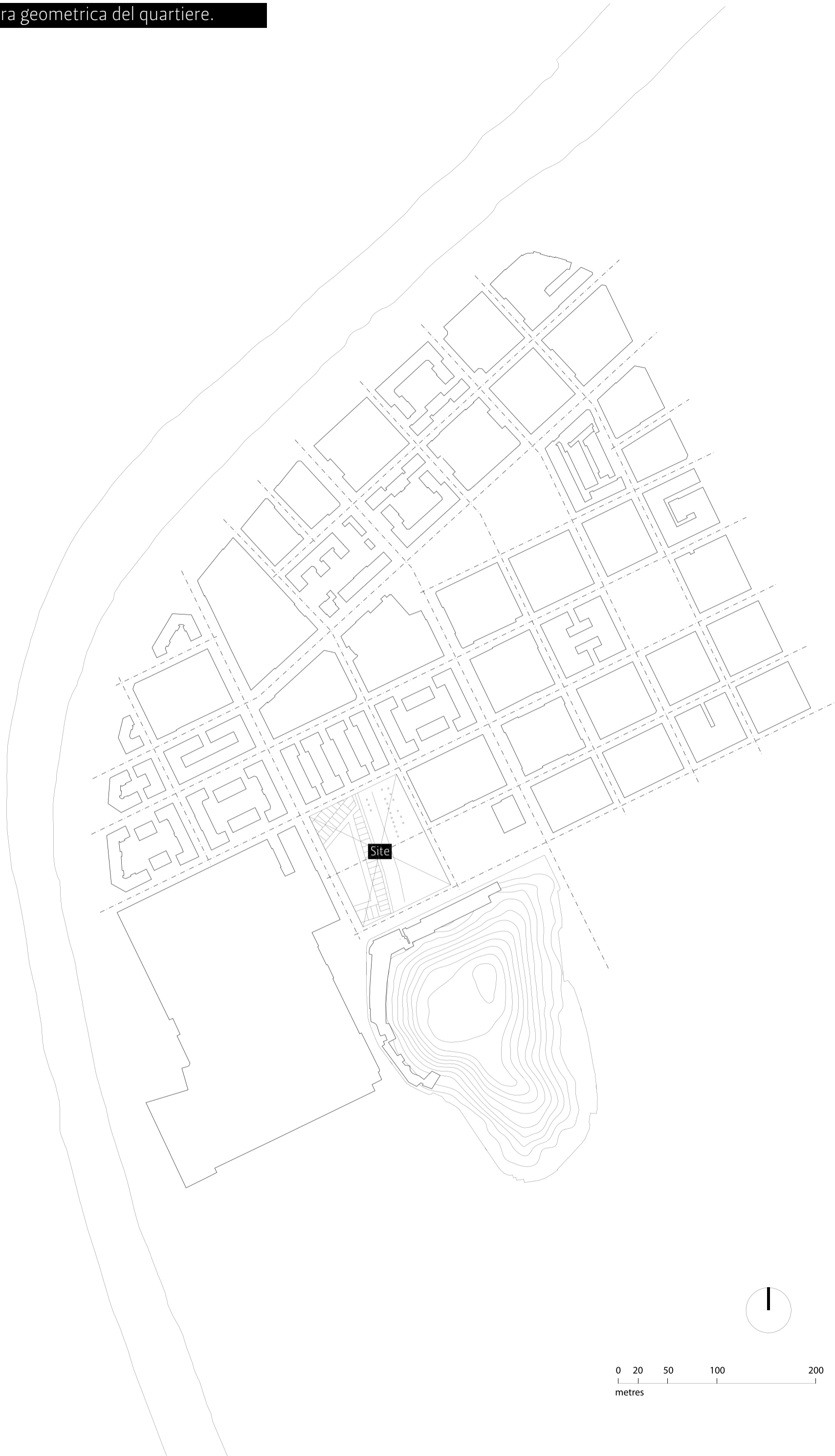




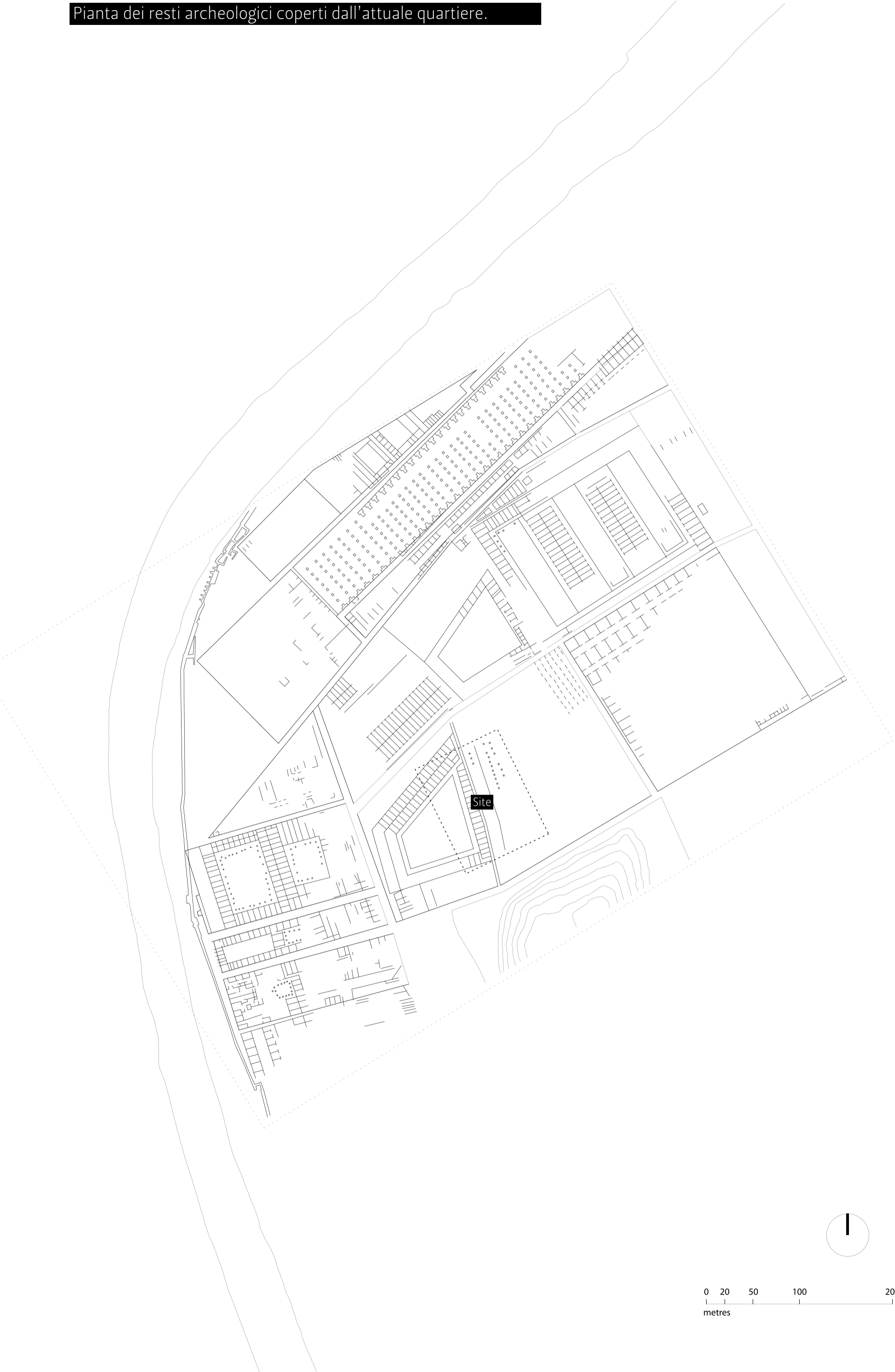




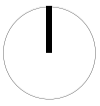
Struttura geometrica del quartiere.

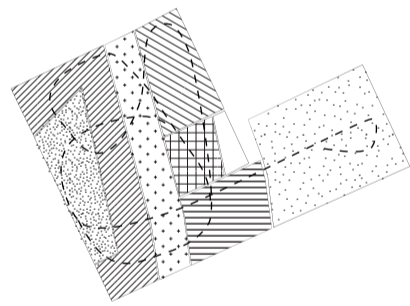


Pianta dei resti archeologici coperti dall'attuale quartiere.



0 20 50 100 200
metres





8 composizioni sui frammenti.



Composizione n.1:
Campo continuo e uniforme (righe su foglio bianco).



Composizione n.2:
Frammento su campo uniforme. Il limite del frammento non segue la geometria del campo. Il frammento ha una propria geometria indipendente e una propria sotto gerarchia e sotto frammentazione.



Composizione n.3:
Frammento indipendente su campo uniforme. Elemento di mediazione lineare tra i due (con spazio di transizione).



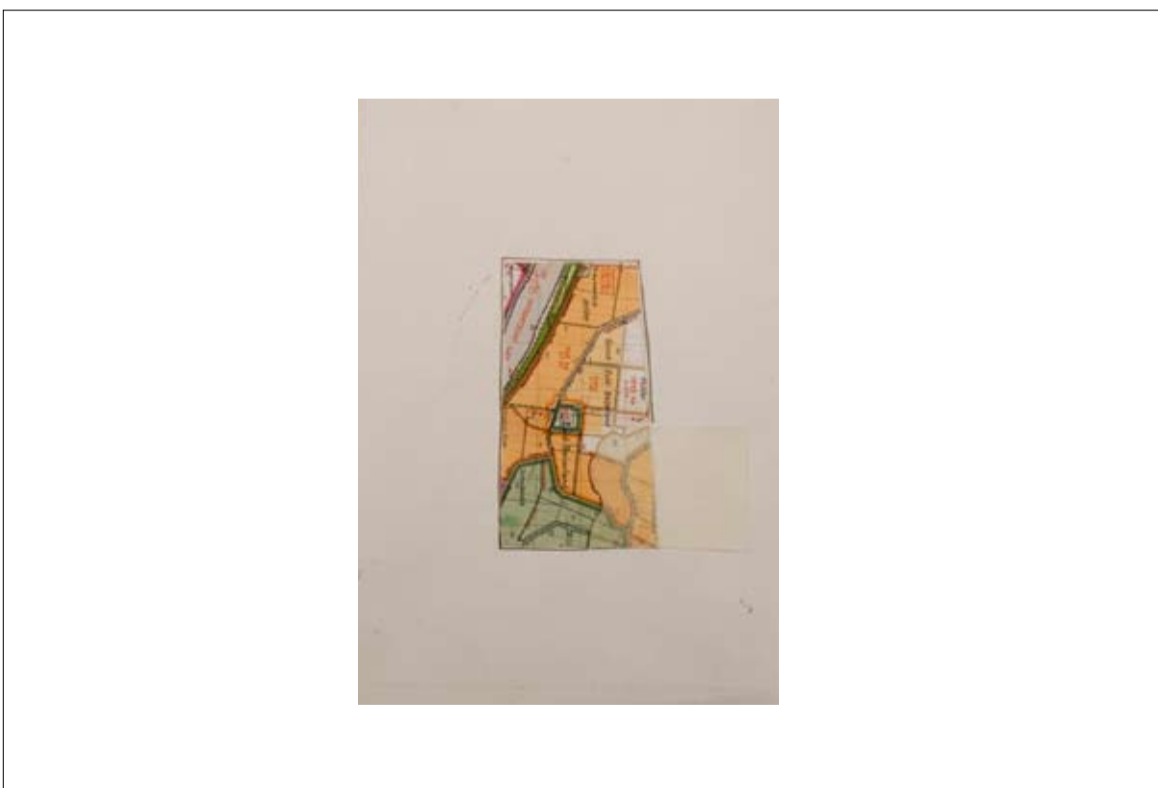
Composizione n.4:

Frammento indipendente su campo uniforme. Elemento di mediazione non lineare (elemento di mediazione all'interno del frammento).



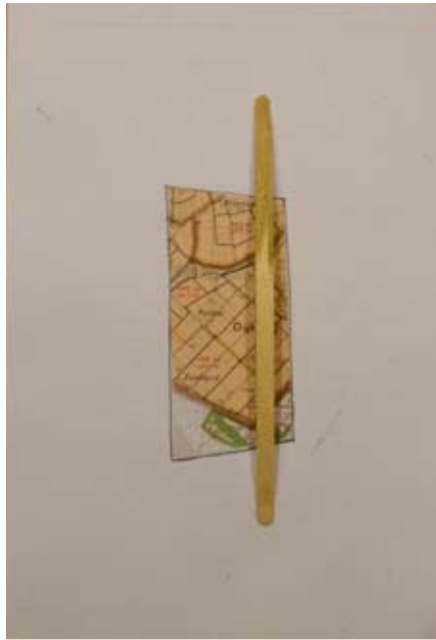
Composizione n.5:

Frammento indipendente su campo uniforme. Elemento di mediazione non lineare (l'elemento di mediazione attraversa il limite tra il frammento e il campo).



Composizione n.6:

Frammento indipendente su campo uniforme. Elemento di mediazione lineare e elemento di mediazione non lineare che attraversa parte del limite seguendo la geometria del campo e del frammento.



Composizione n.7:

Frammento indipendente su campo uniforme. Elemento di mediazione lineare e elemento di attraversamento che non tocca la superficie del frammento.

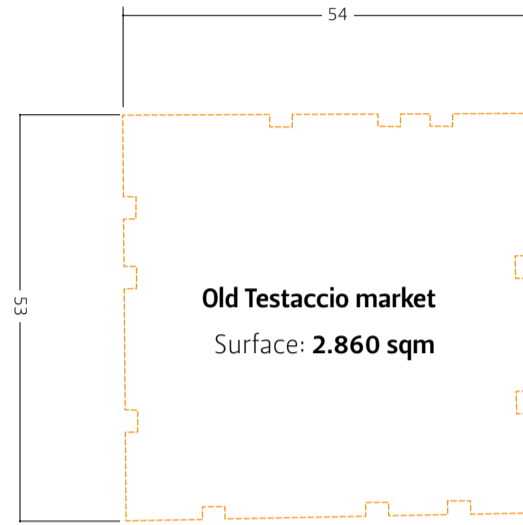
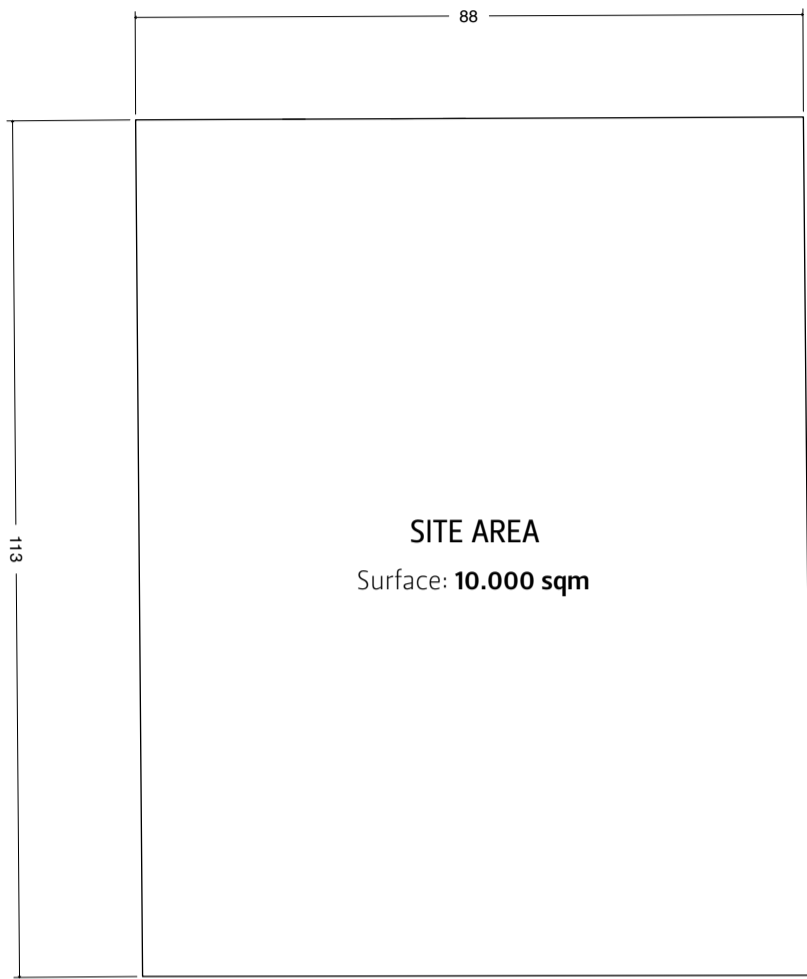


Composizione n.8:

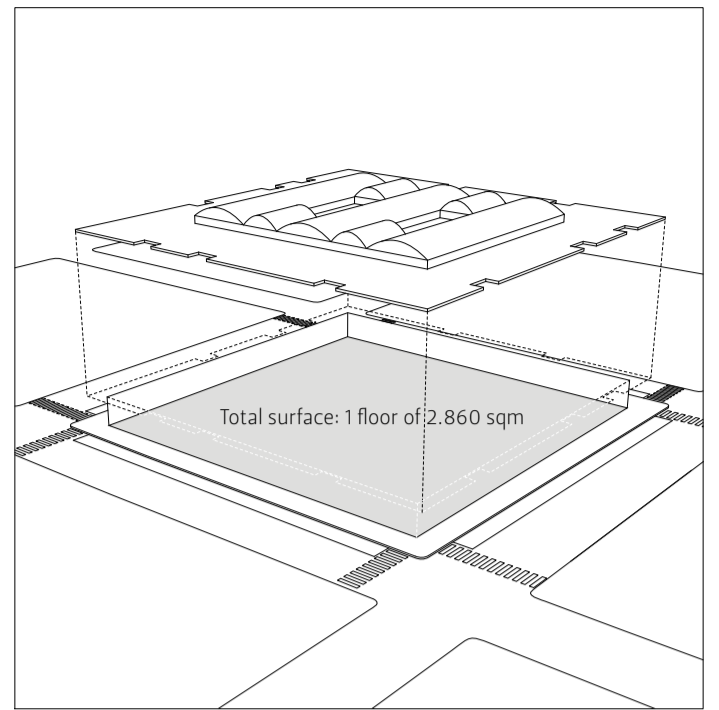
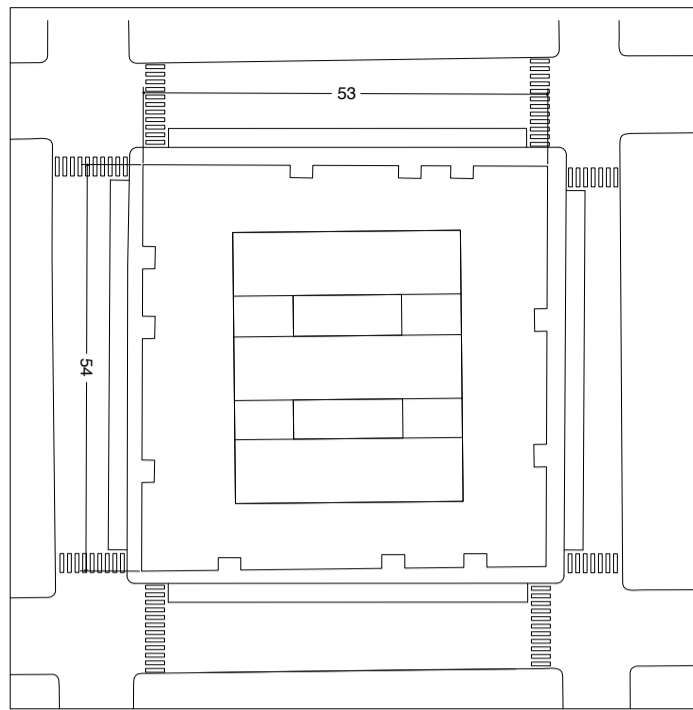
Doppio frammento indipendente su campo uniforme. Elemento di mediazione lineare e elemento di attraversamento che non tocca la superficie del frammento.

Diagramma di comparazione delle superfici.

Site area surface in comparison
with other reference buildings.
Scale: 1:1000

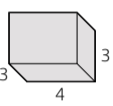


Analisi del vecchio mercato rionale.



Data:

Building footprint: **2.860 sqm** (distributed on one single floor open on each side)

Vendor units: **112 x**  (average vendor unit dimension, with 12 sqm of surface)

Circulation/vendor spaces rate: **1,125** (12 : 13,5 sqm per unit)

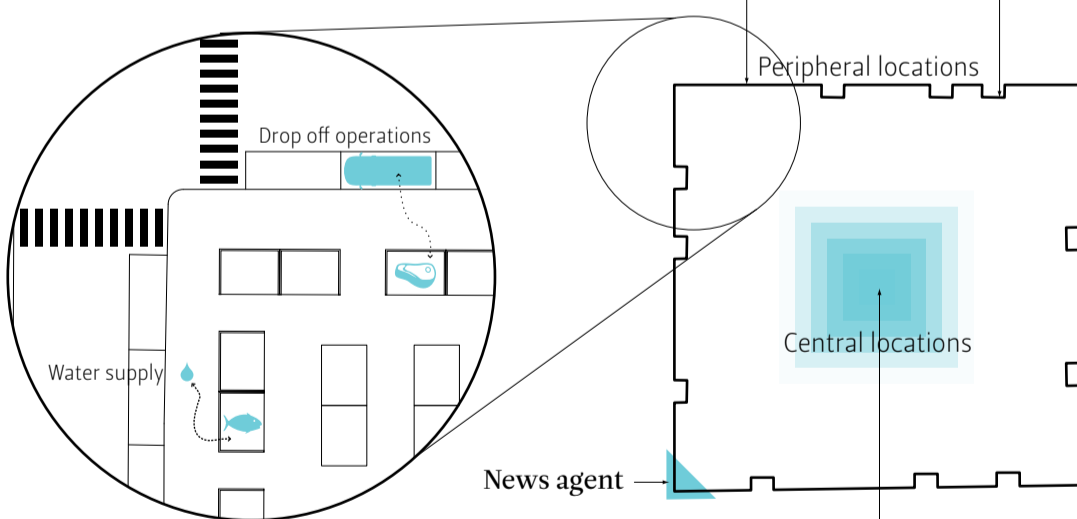
Location of each programmatic elements:



Butchers and fishmongers are located on the peripheral part of the building to easily permit the load/unload operation to take place due to the weight of the goods (especially butchers) and for the frequent need to go out for water supply to wash the products (fishmongers)



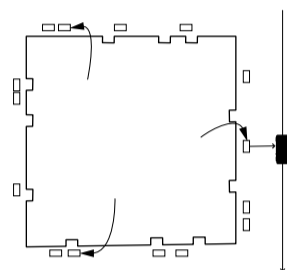
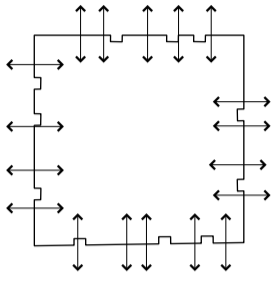
- Bread and sweets
- Dry fruits and seeds
- Cold cut
- Cheese
- House products



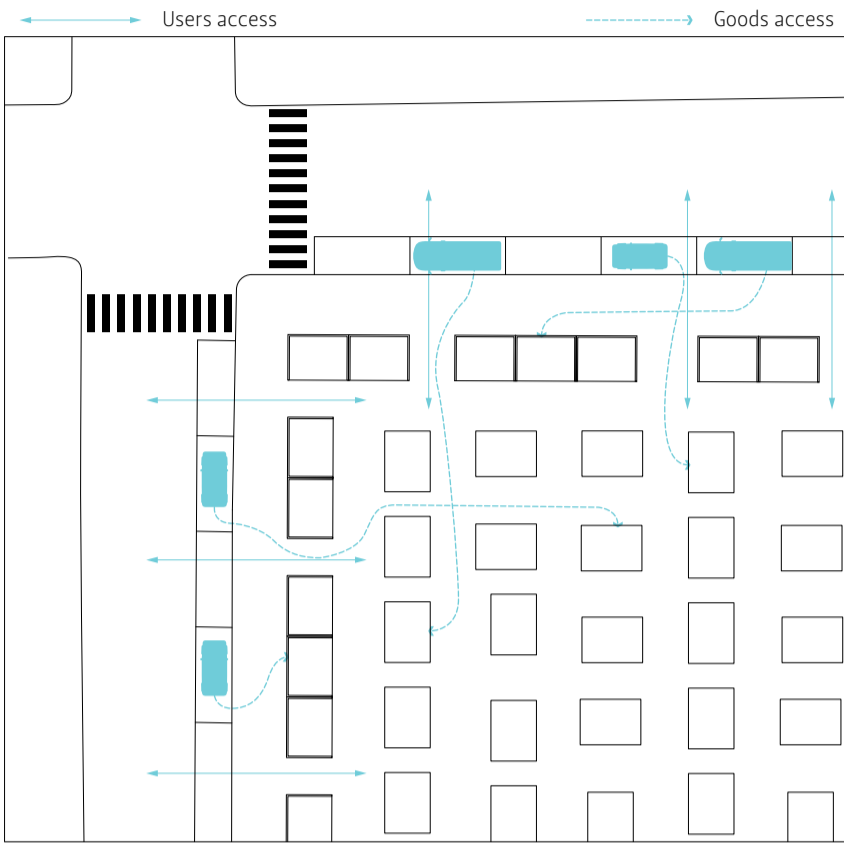
Fruit
Vegetable

Diagrams of the peripheral relationships

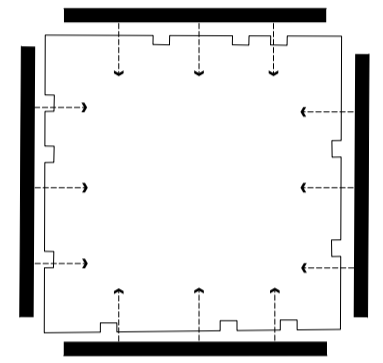
Accesses located randomly on the four sides of the building.



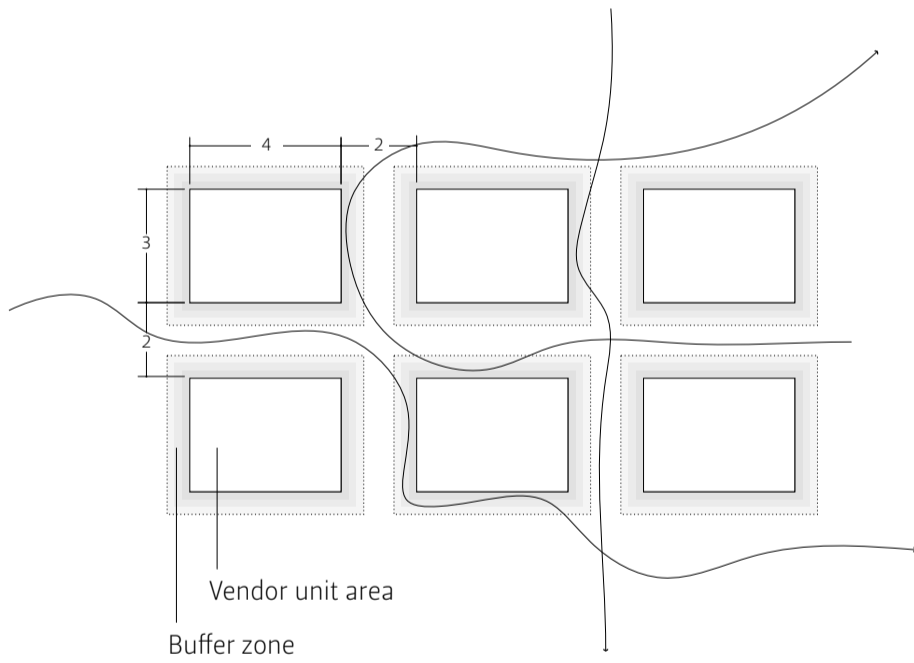
Garbage cans located outside of the building



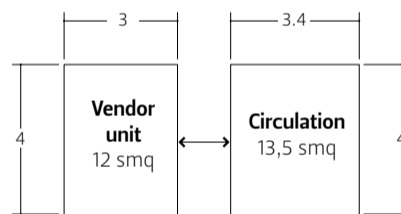
The parking lots are located around the building perimeter and they are used both for load/unload operations and for users parkings



Diagrams of the internal relationships

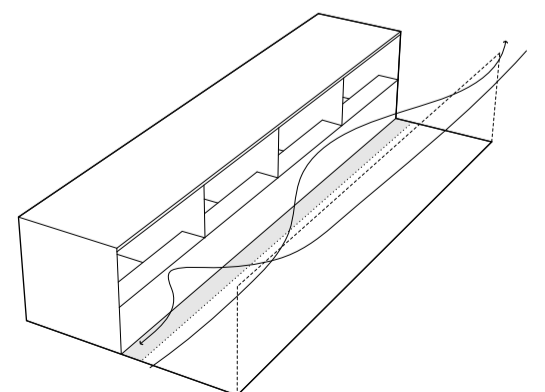
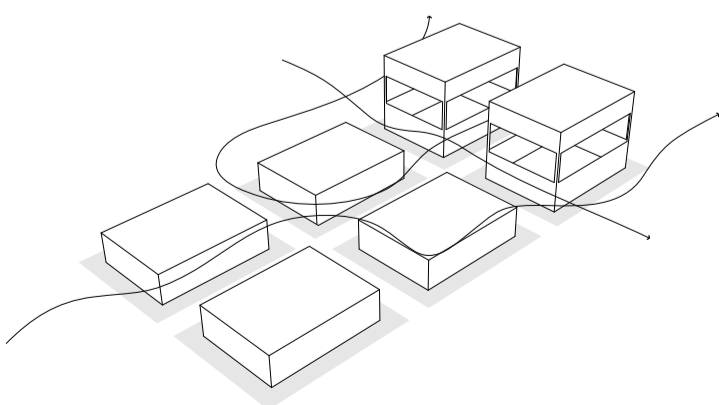
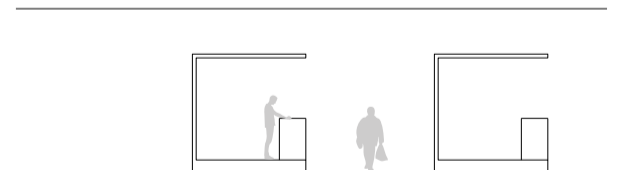
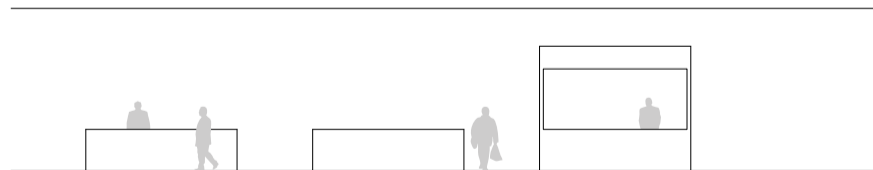
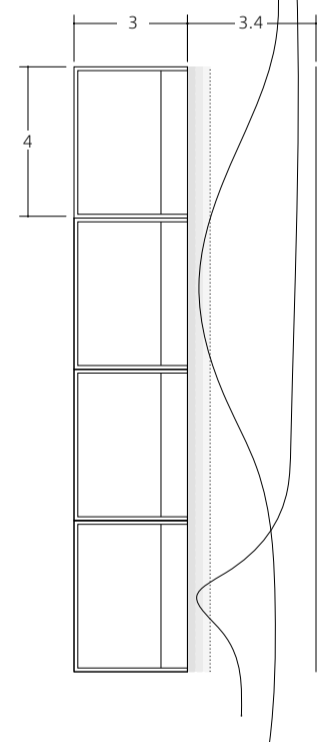


Rate Circulation surface/Vendor surface



Rate: 1,125 sqm of circulation for each sqm of vendor space

Rate Circulation surface/Vendor surface





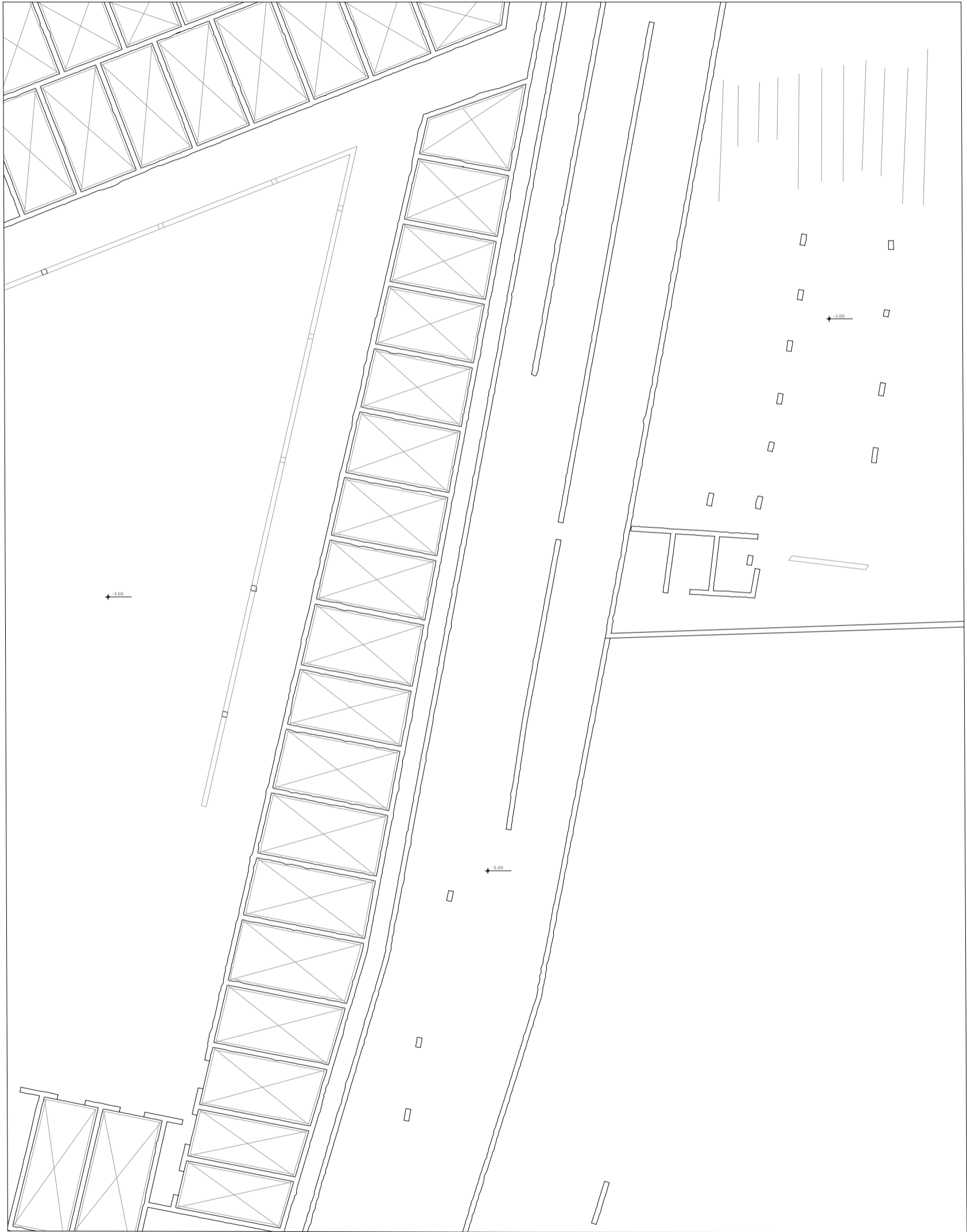
Project site area, previously two blocks of the neighborhood grid freed to place the new market.



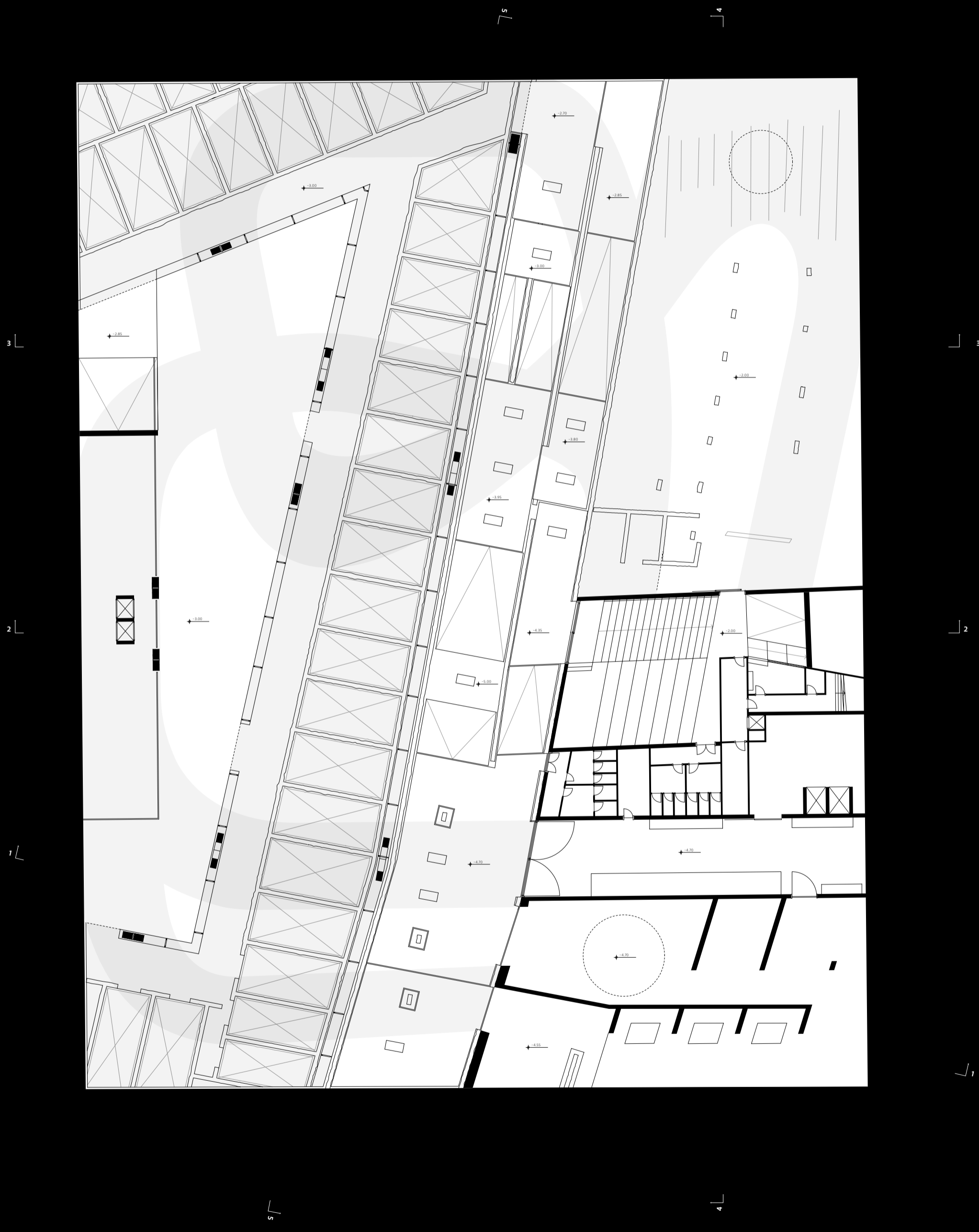
The two macro function surface compared. As first step the old market surface has been taken as minimum reference area. The freed archaeological surface is equal to the site area surface.



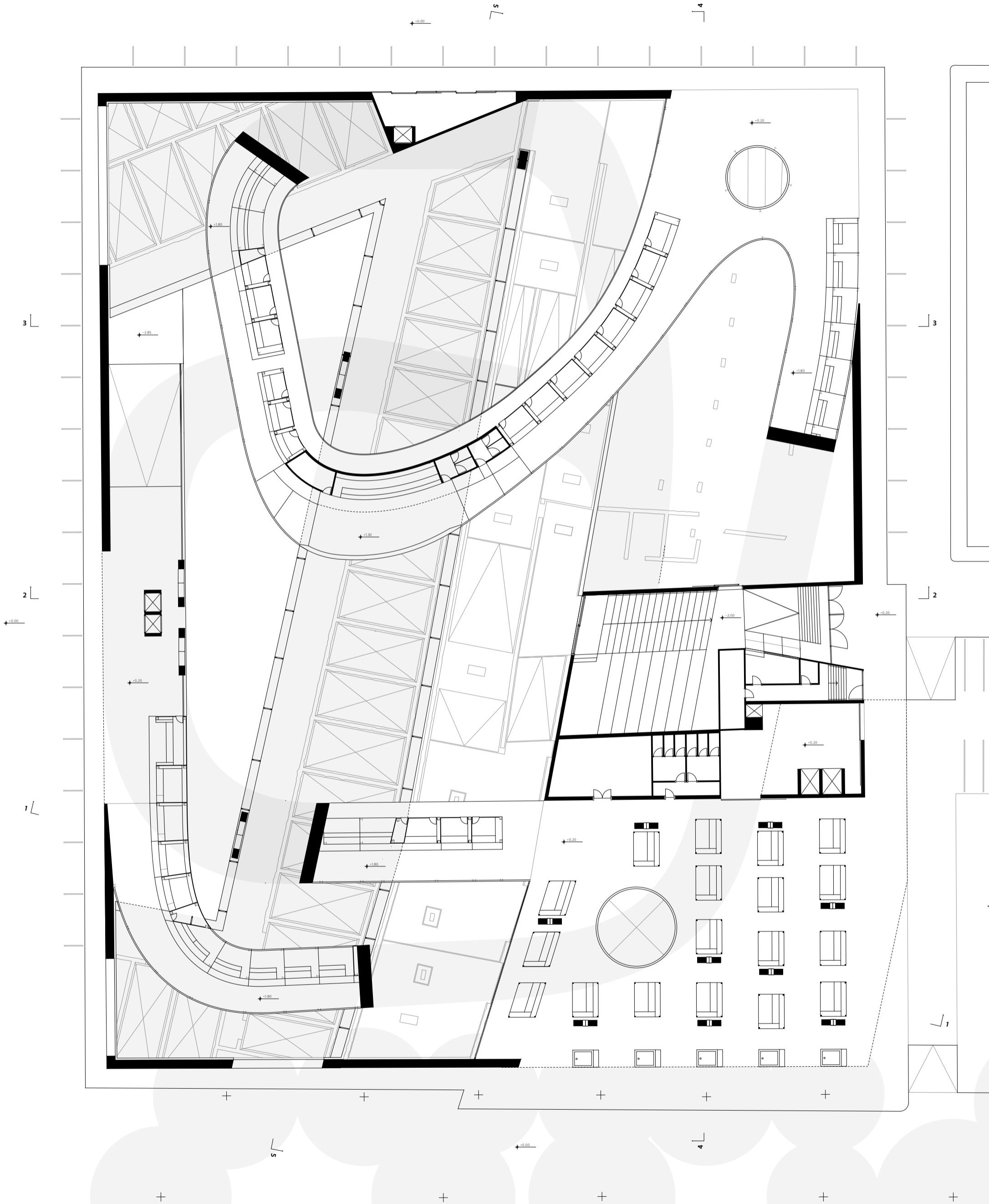
One of the two macro function is developed in three main sub-functions: **Grocery and Miscellaneous vendors areas (bread, dryfruits and seeds, coffee and sweets, cold cuts, cheese, house products)**, **Fishmarket**, **Meatmarket**.

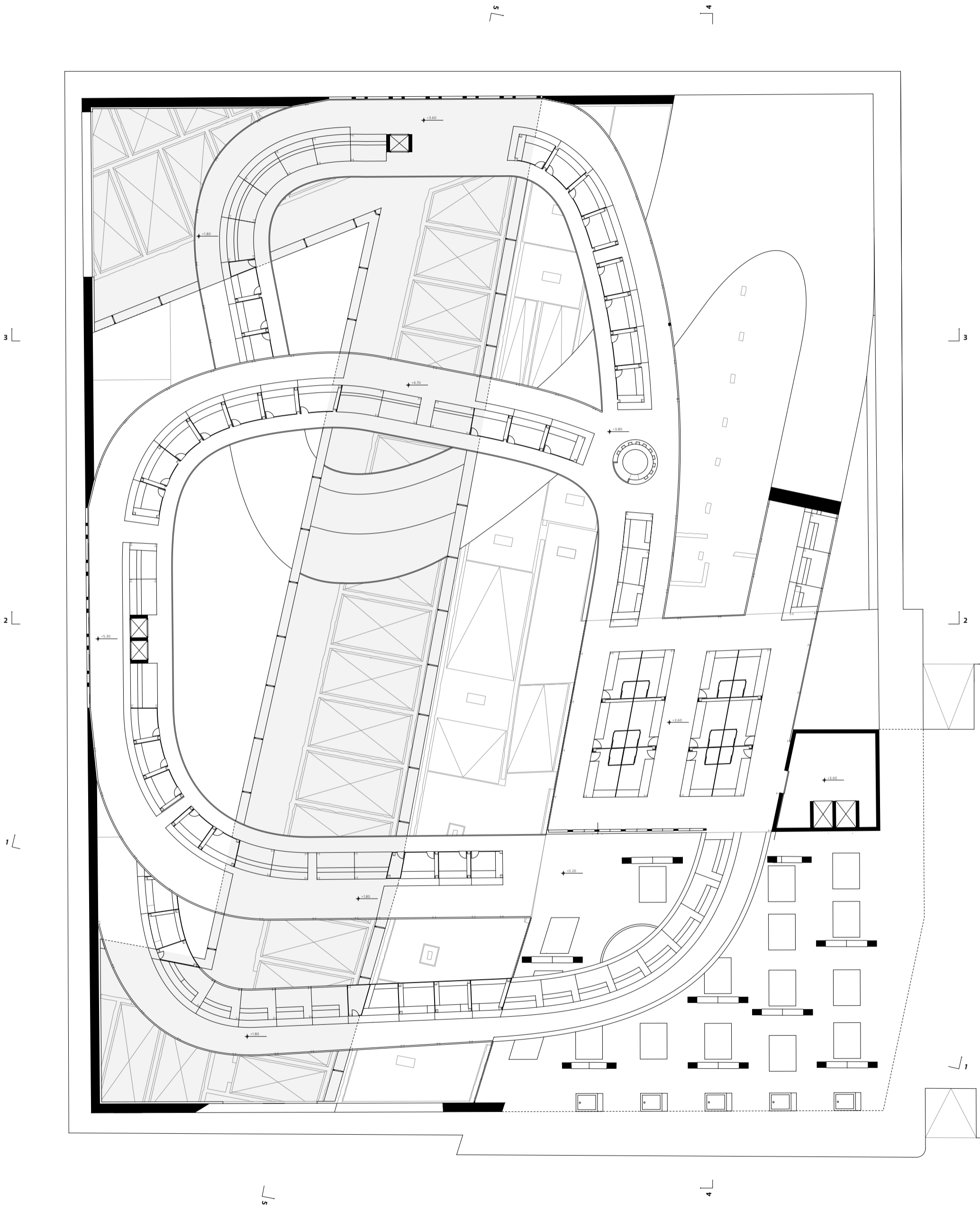


Pianta a quota -1.50.

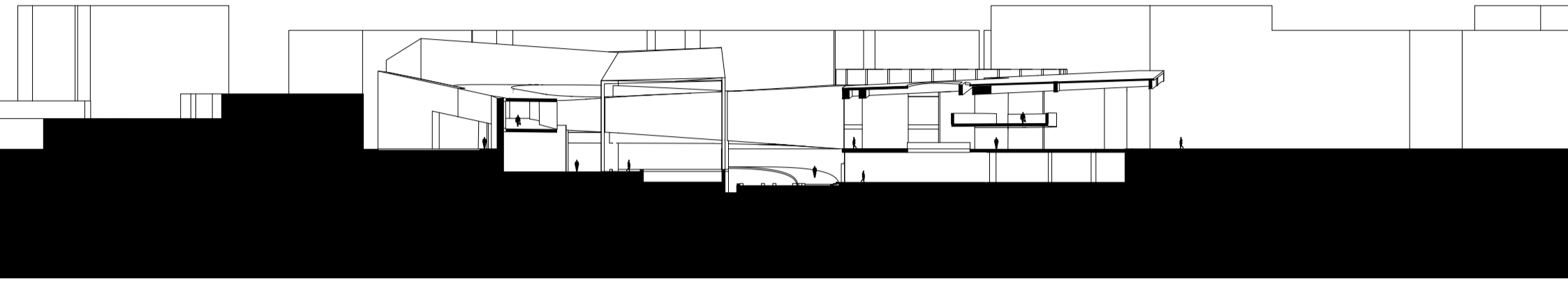


Pianta a quota +2.20.

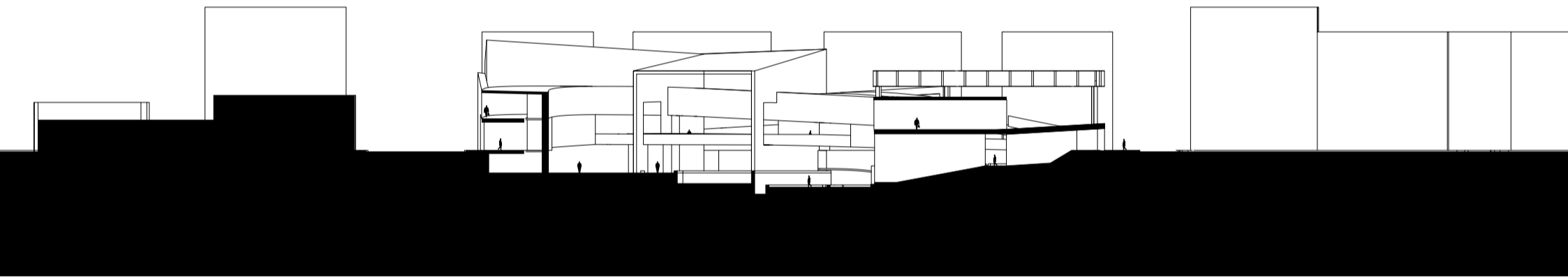




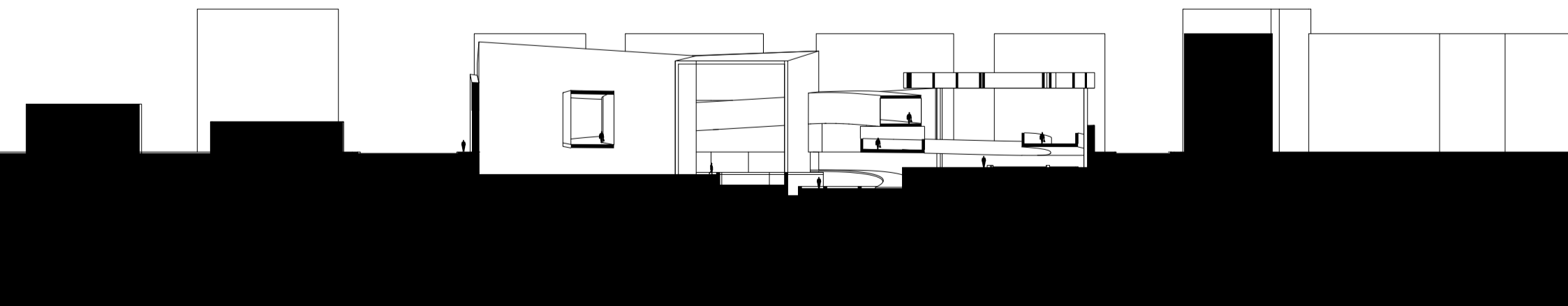
Sezioni.



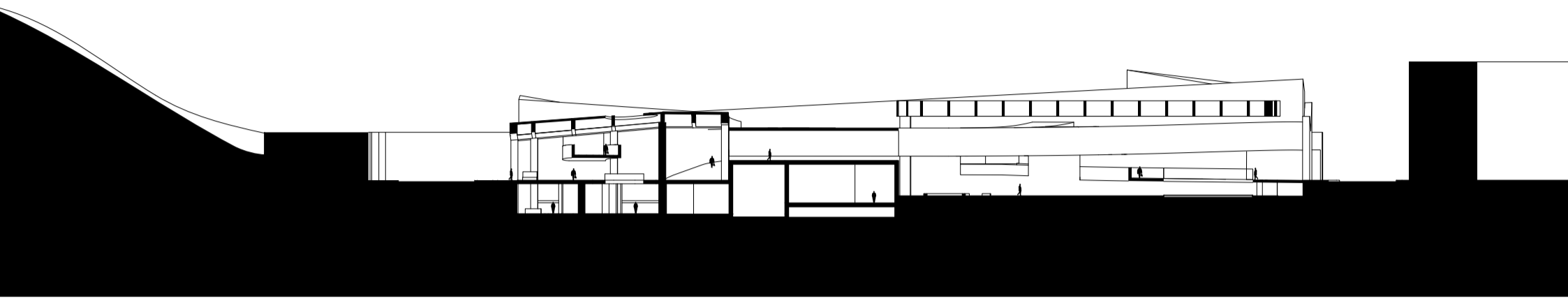
Sezione 1.



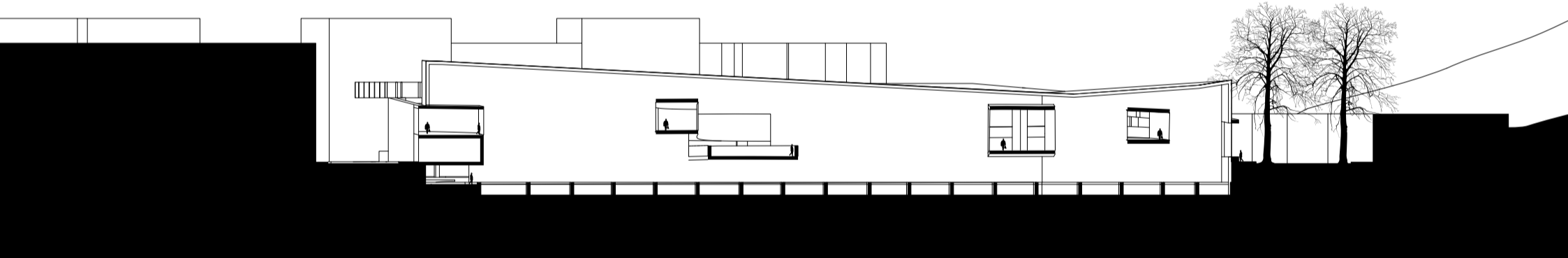
Sezione 2.



Sezione 3.



Sezione 4.



Sezione 5.

