



# Beyond the call of duty

The Culinary Art School of Beato

G.J.Post  
4316061

7 November 2017



masterplan



gebouwplan



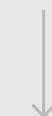
detailplan

## Inhoud presentatie:

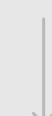
#masterplan/grid/tuinen  
#gebouwplan/machine/tijdslagen  
#detailplan/

De onderliggende vraag achter het ontwerp;  
hoe hou ik de karakteristieke punten van de  
MMC in leven ?

analyseren



concluderen



voorstellen



centrum Lissabon

kookschool MMC

centrum Expo 1998

## Masterplan

Probeer de vorm en de silo's als herkeningspunten te onthouden



grid

tuinen

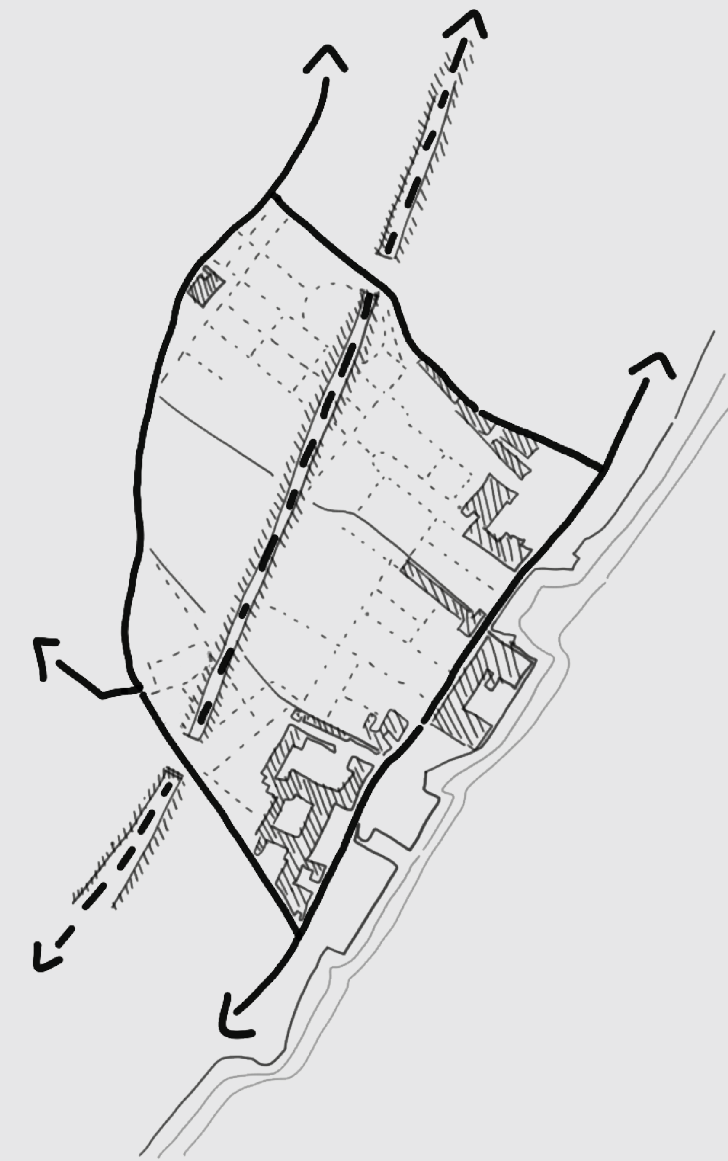
L





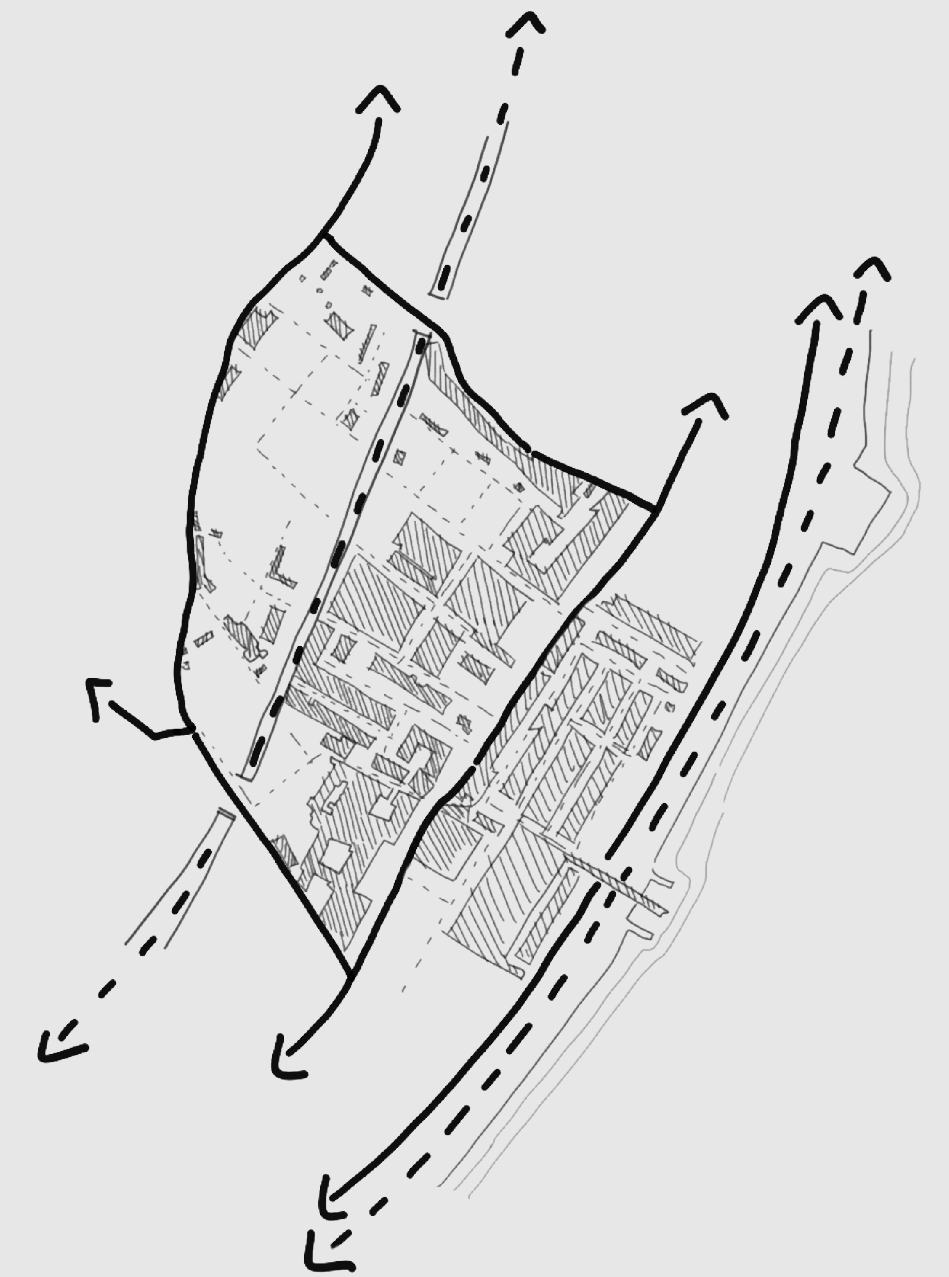
## Tijdslaag 1856

Een groen center (rust) met heldere en eenvoudige opzet. Kustweg gaat dwars door dorp (Beato) heen. De omgeving lijkt uitnodigend om te zijn.



## Tijdslaag 2016

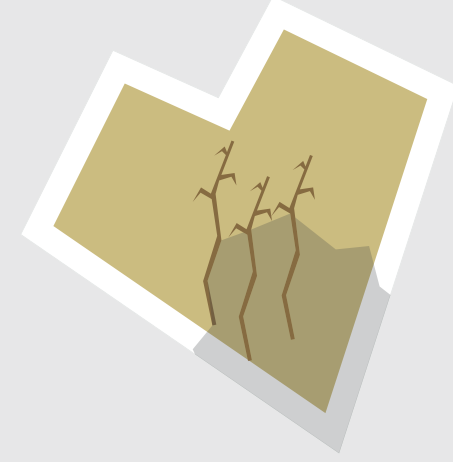
De stramien zijn in 2016 nog steeds zichtbaar. Ook is er een verschuiving van kuststrook, maar geen nieuwe verbinding tussen Beato en de kustweg.



Kaart 1856 Municipal Lisbon, <http://lxi2.cm-lisboa.pt/lxi/>



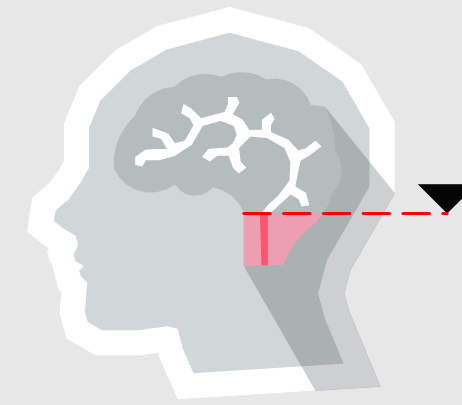
militair gebied



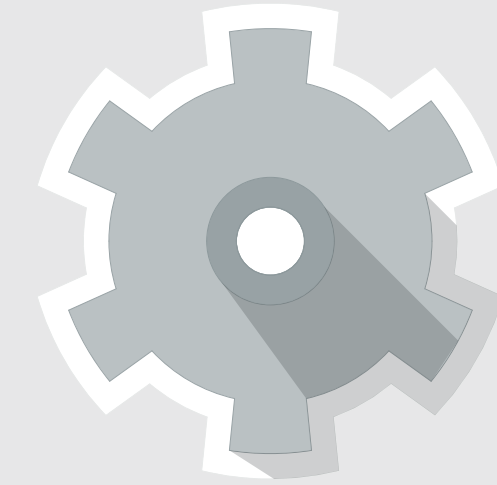
wasteland



mono - demografisch



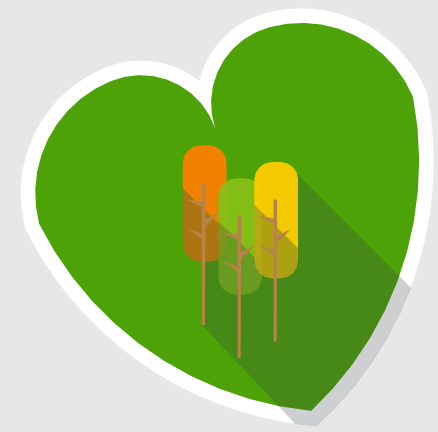
laag opleidingsniveau



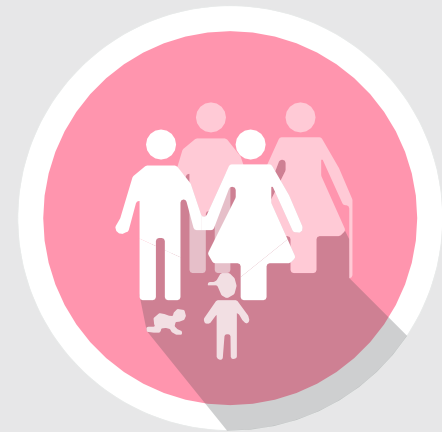
mono - functioneel  
(industriële plug)



openbaar gebied



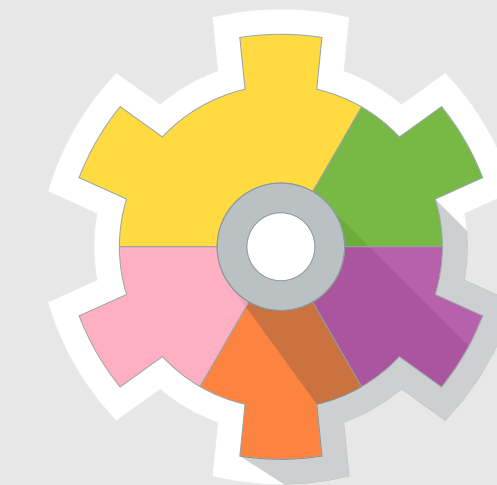
tuinen



gemengd - demografisch



education system  
(school)



multi - functional  
(mixed program)



## Voorontwerp

Het idee om twee stedelijke talen te maken voor verbinding en orde. Twee richtingen van verbinden zijn aanwezig en hierdoor ligt het nieuwe hart opnieuw aan de kustweg, zoals het vroeger heeft gedaan. De twee stedelijke vormtalen zijn alreeds aanwezig in vorm van projecten en literatuur.

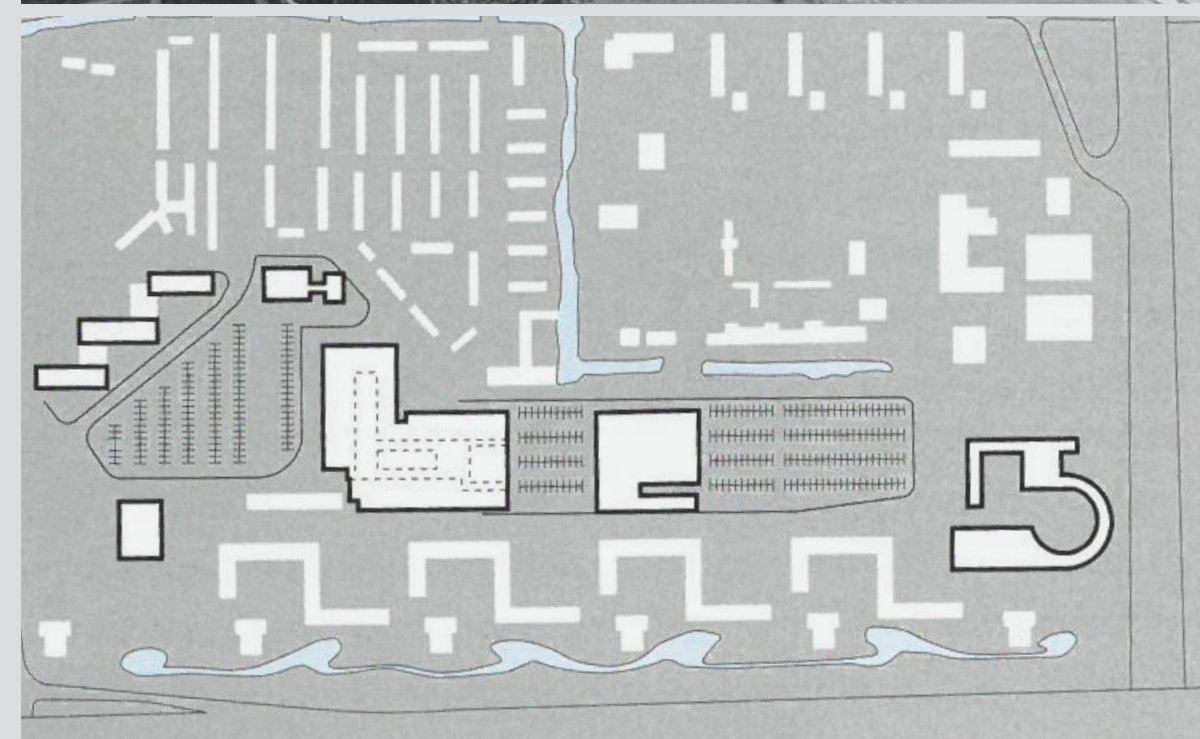


Meyer, H. 2008 p. 92 (t); Placa dels Paisos, Barcelona

Meyer, H. 2008 p. 91 (t); Plein 1953, Rotterdam



Plein Lissabon; centrum (bron: onbekend)



- a Apartments
- b Outdoor sport
- c Shop & Apartments
- d Indoor sport
- e Train station
- f Cinema
- g Garden (historical or new)
- h Social leisure
- i Fire Department
- j Police station
- k Student Flat
- l Food & Business school
- m Hotel
- n Green Market
- o Church & Museum
- p Care Home
- q Small Companies
- r Urban Villa



- Religion & discovery 1800 - 1856
- Industrialisation 1856 - 1900
- Concession I 1900 - 1940
- Concession II & III 1940 - 2016

- TASC:**
- 1 High value: preserve, adapt
  - 2 High value: preserve, adapt
  - 3 Low value: be gone
  - 4 High value: preserve, adapt
  - 5 High value: transform
  - 6 Low value: be gone
  - 7 Low value: transform
  - 8 High value: transform
  - 9 High value: preserve, adapt
  - 10 Average value: transform
  - 11 Average value: transform
  - 12 High value: transform
  - 13 High value: transform
  - 14 Average value: transform
  - 15a Average value: transform
  - 15b Low value: be gone
  - 16a High value: preserve, adapt
  - 16b Low value: be gone
  - 17 High value: preserve, adapt
  - 18 High value: preserve, adapt
  - 19 High value: transform
  - 20 High value: transform
- Adapt to existing / new program
  - Transform in something better
  - Wither away; demolish

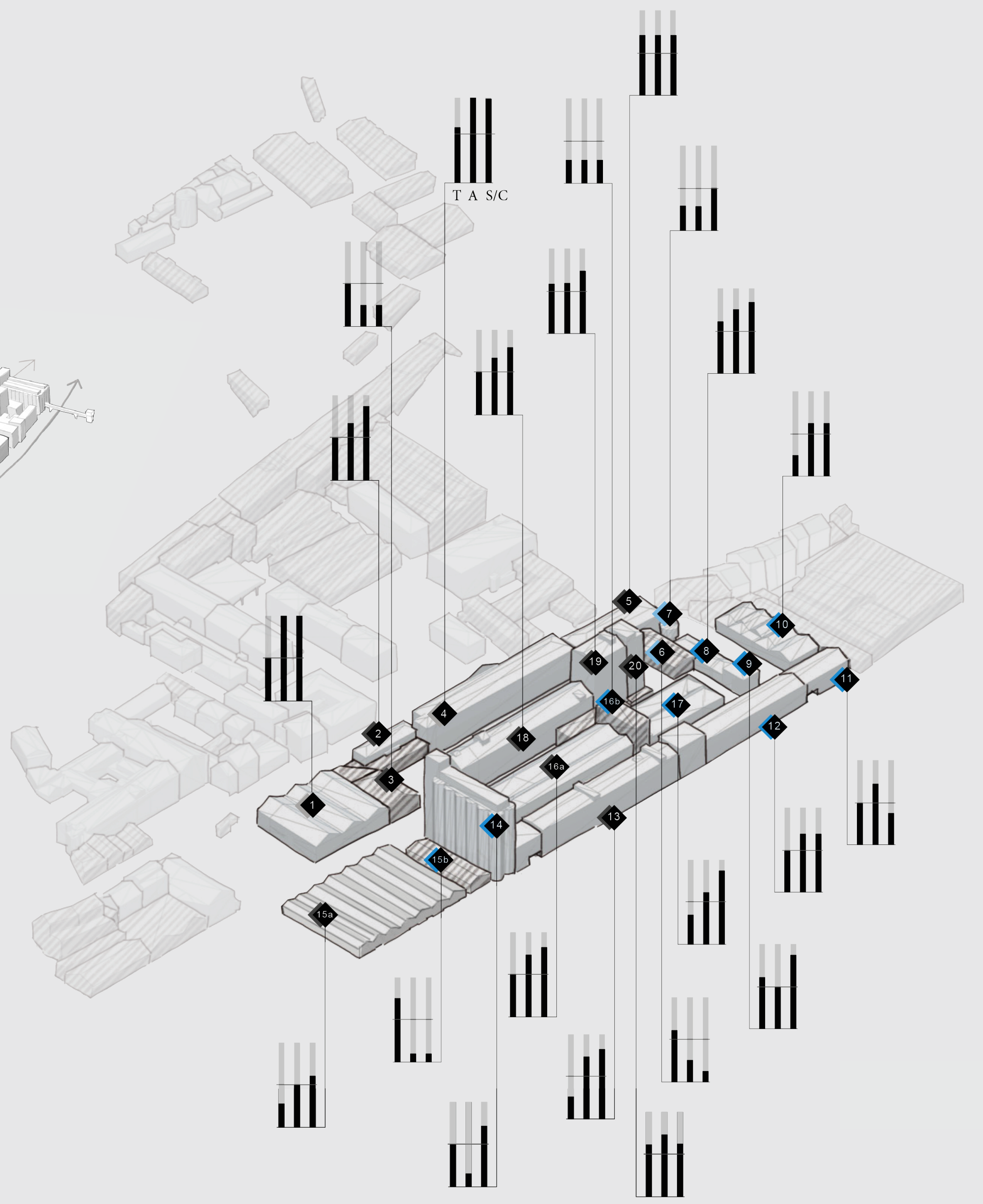
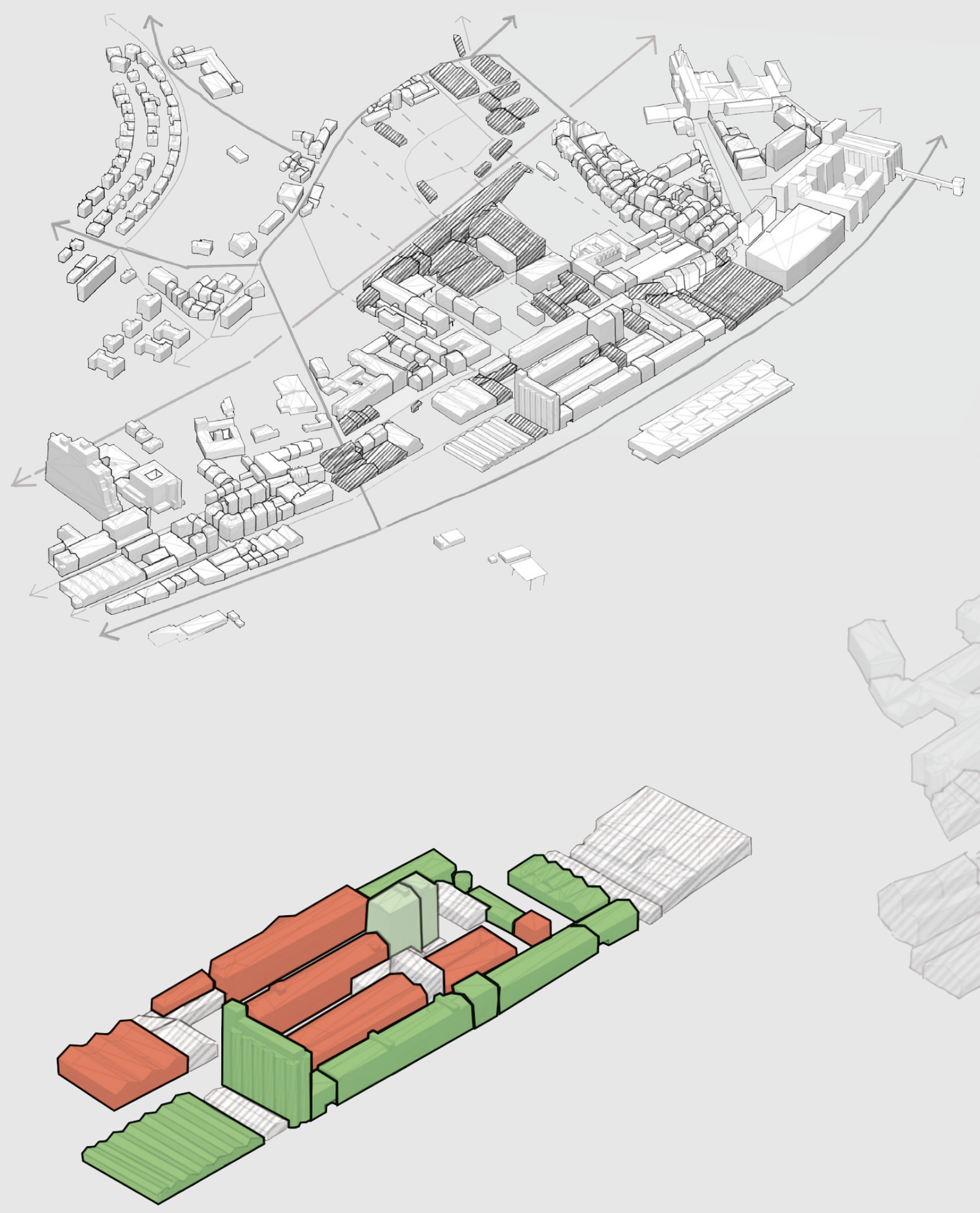




DIAGRAM KUSTKERNEN ANALYSE

DIAGRAM GRID

DIAGRAM HISTORISCHE TUINEN







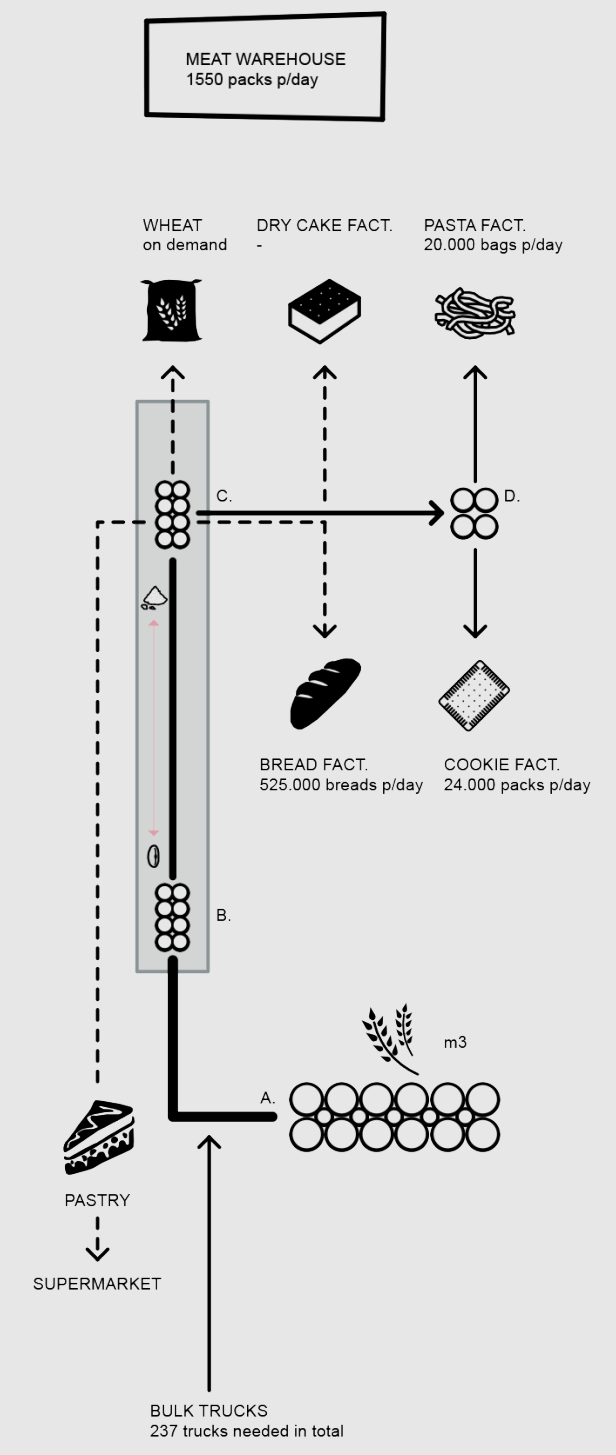
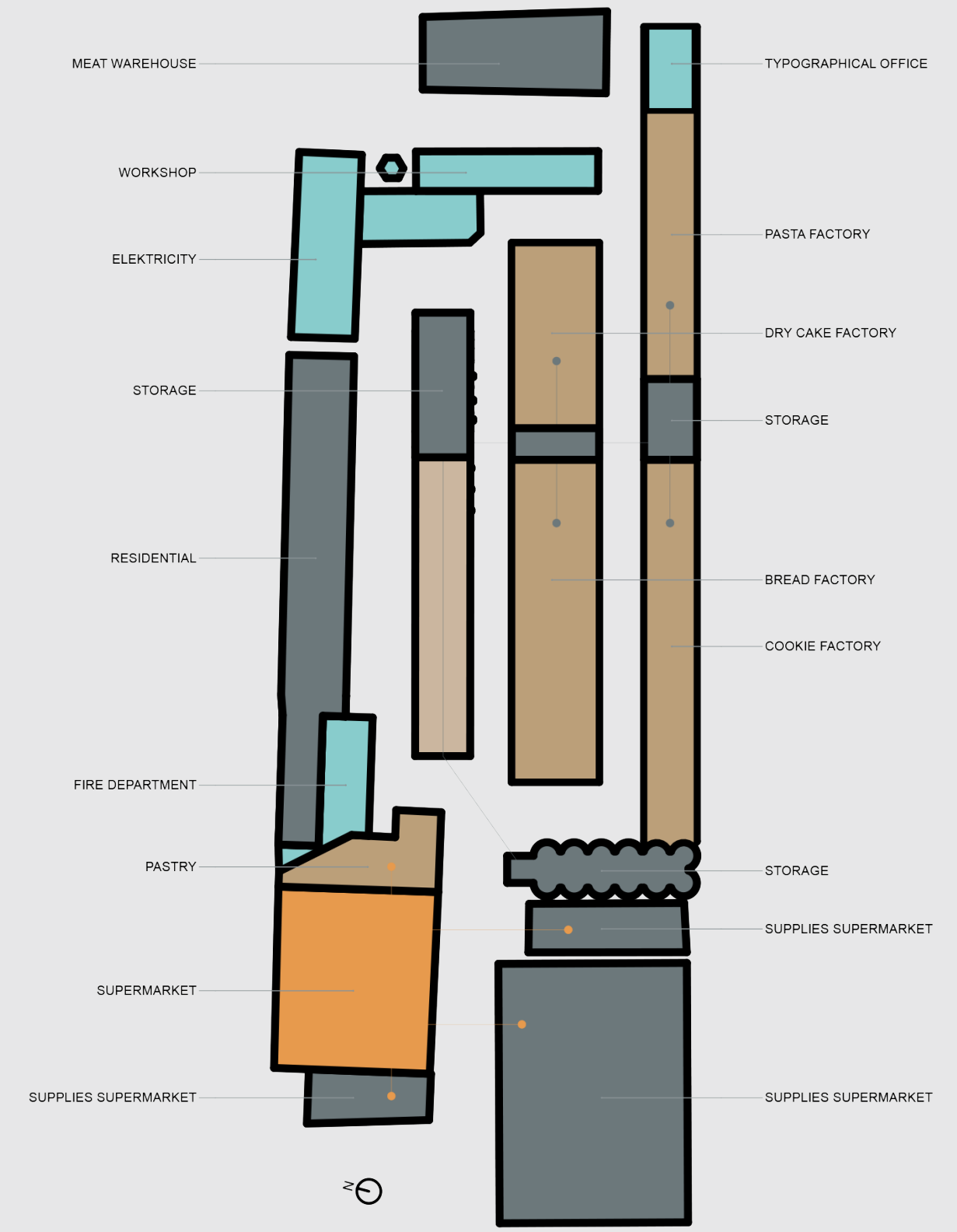
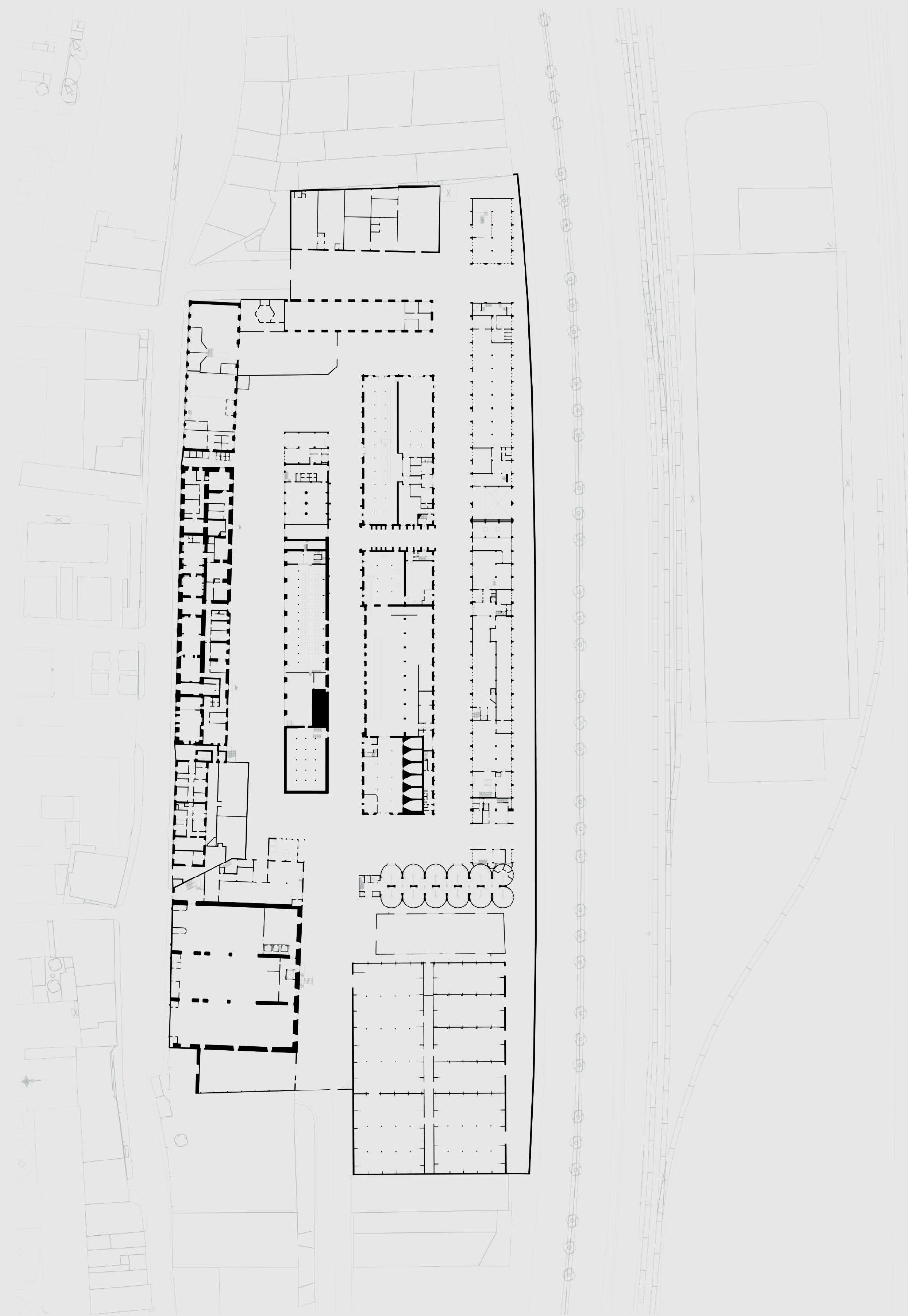
machine

tijdslagen

L

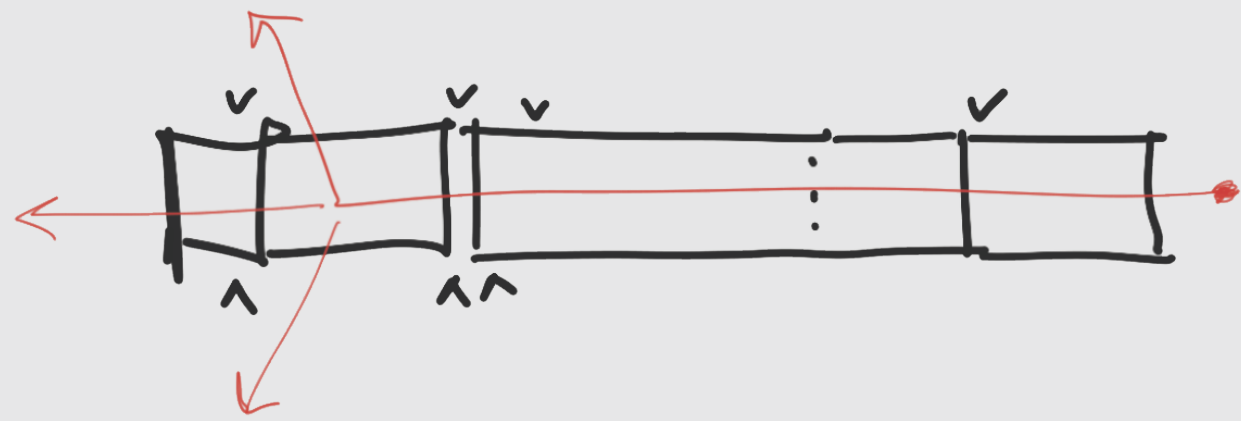
Gebouw thema's

12



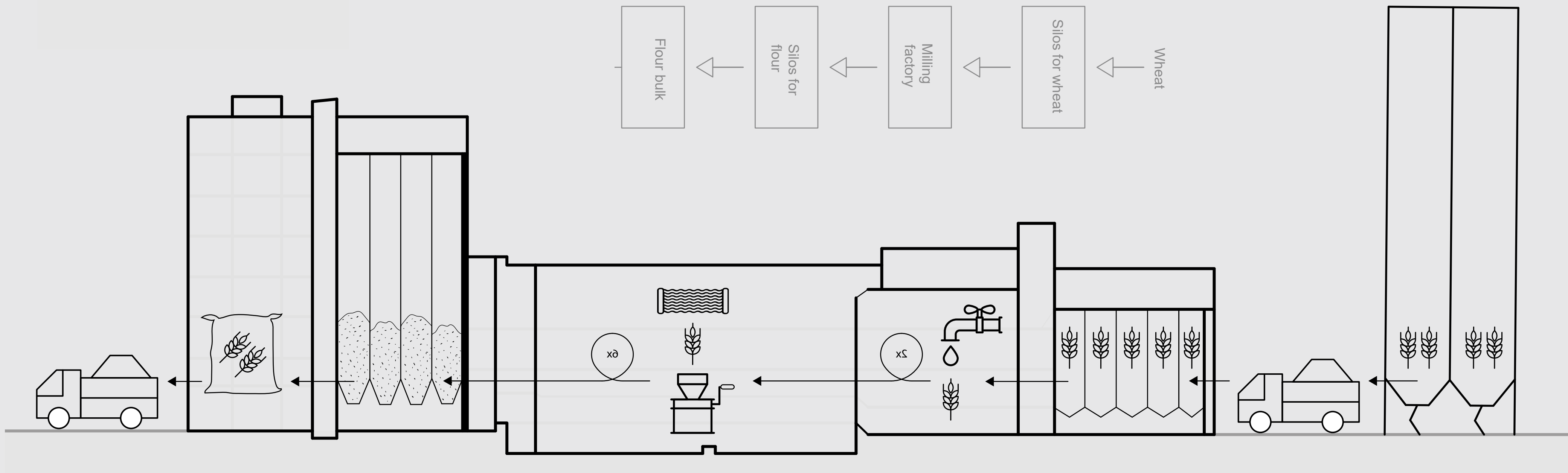
## Onderdeel van een machine

Het gebouw functioneert als hoofdgebouw van de productieprocessen aanwezig.



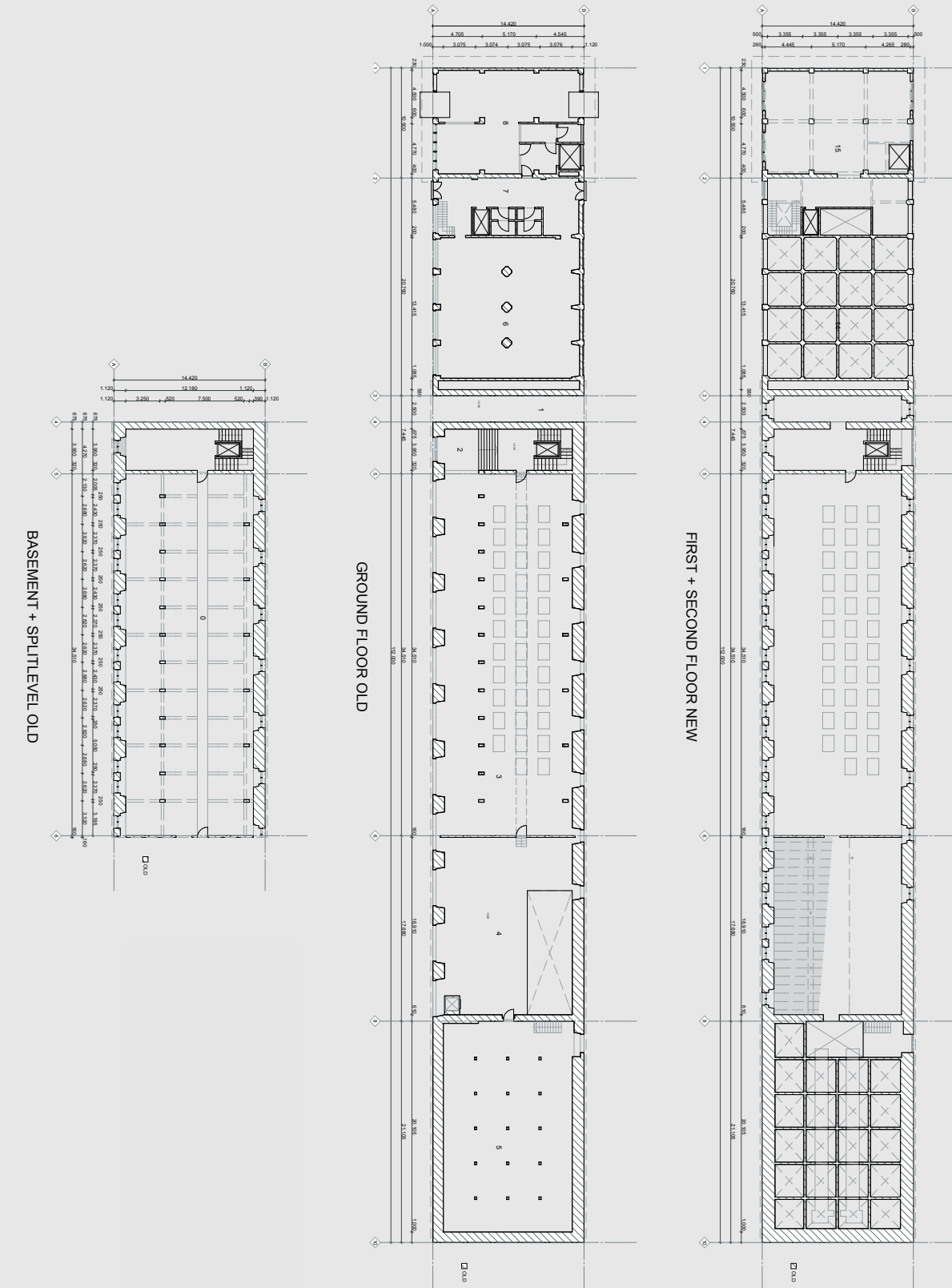
# Het gebouw is een machine

De essentie van het gebouw is een machine. De kookschool dient dit te interpreteren en te gebruiken voor haar onderwijs.



# School in fabriek?

Het uitgangspunt is die machines deels te behouden die ter onderwijs gebruikt kunnen worden (werkend of niet).





# Kookschool slachthuis

Architects: Gracia Studio  
Location: Tijuana, Baja California, Mexico  
Architects: Jorge Gracia  
Associates: Javier Gracia, Jonathan Castellon  
Construction: Graciastudio  
Area: 894.0 m2 x 2,5 = 2235 m2  
Project Year: 2010



# School in fabriek!

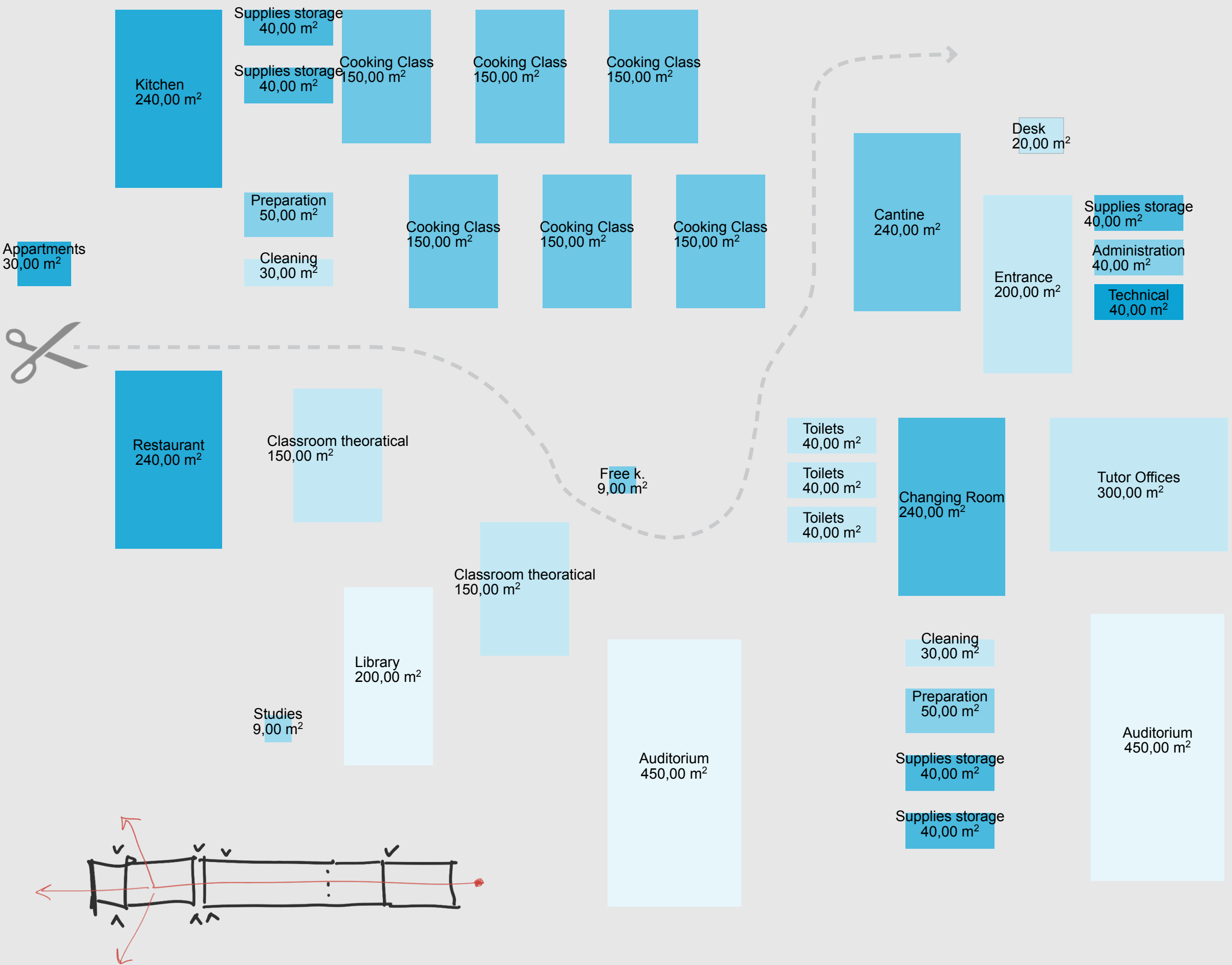
De worsteling tussen een uniek gebouw en een machinaal proces.

**PROPOSED VISION**  
The Culinary Art school is designed to educate 300 students each year to 'produce' professionals which have mastered the practical and theoretical art of culinary cooking. The school wants to innovate in the arts of food by scientific research and cultivate the Portuguese cuisine to its limits.

See booklet



Function	Units	m <sup>2</sup> (min)	m <sup>2</sup> (max)
entrance	1x	20	200
service desk	1x	20	20
administration	1x	20	60
storage supply	4x	50	120
studies (private)	200x	2700	3600
library	2x	80	200
class	8x	560	1200
auditorium	2x	600	900
experiments	...	...	...
offices (priv.)	15x	300	300
preparations	2x	40	100
cleaning	1x	20	60
changing room	8x	160	300
student room	...	15	30
toilets	4x	80	160
technical	1x	...	...
canteen	1x	100	240
restaurant	1x	240	240
kitchen	1x	80	120
<b>Total m2</b>		<b>5.085</b>	<b>7.850</b>
<b>Total m3</b>		<b>20.340</b>	<b>31.400</b>
<b>Existing building</b>	<b>m2</b>	<b>4.619</b>	<b>6.429</b>
	<b>m3</b>		<b>34.288</b>

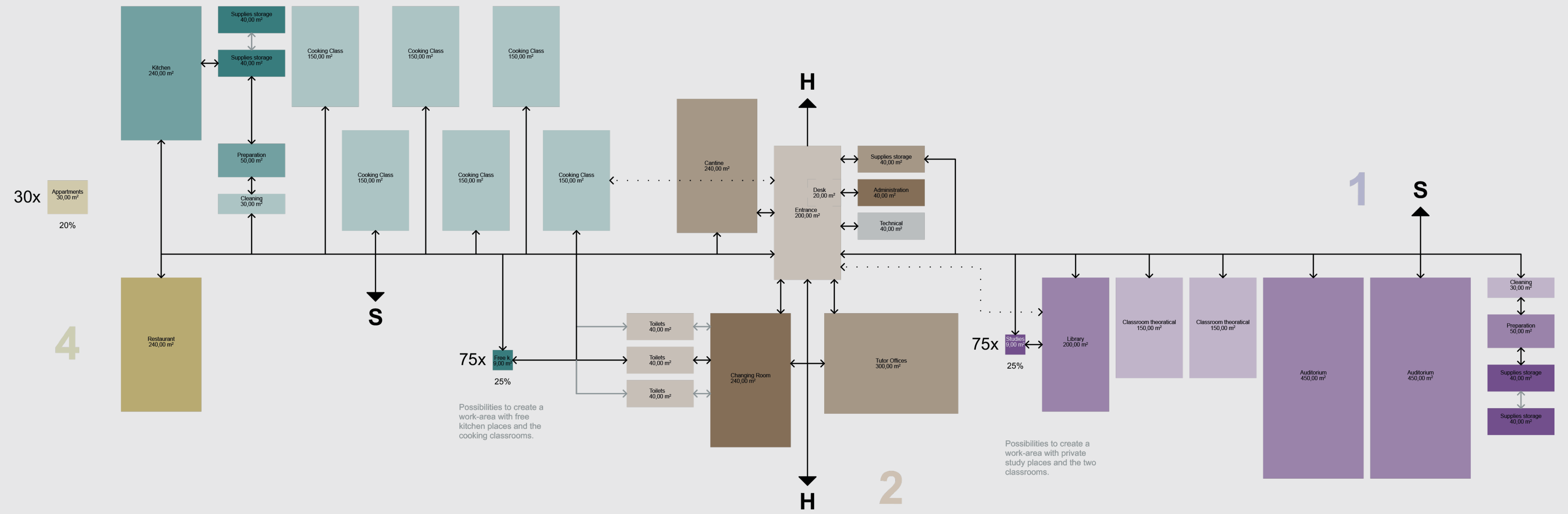
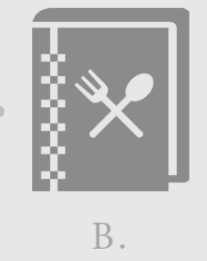


bord

gebruik product

bereid product

product

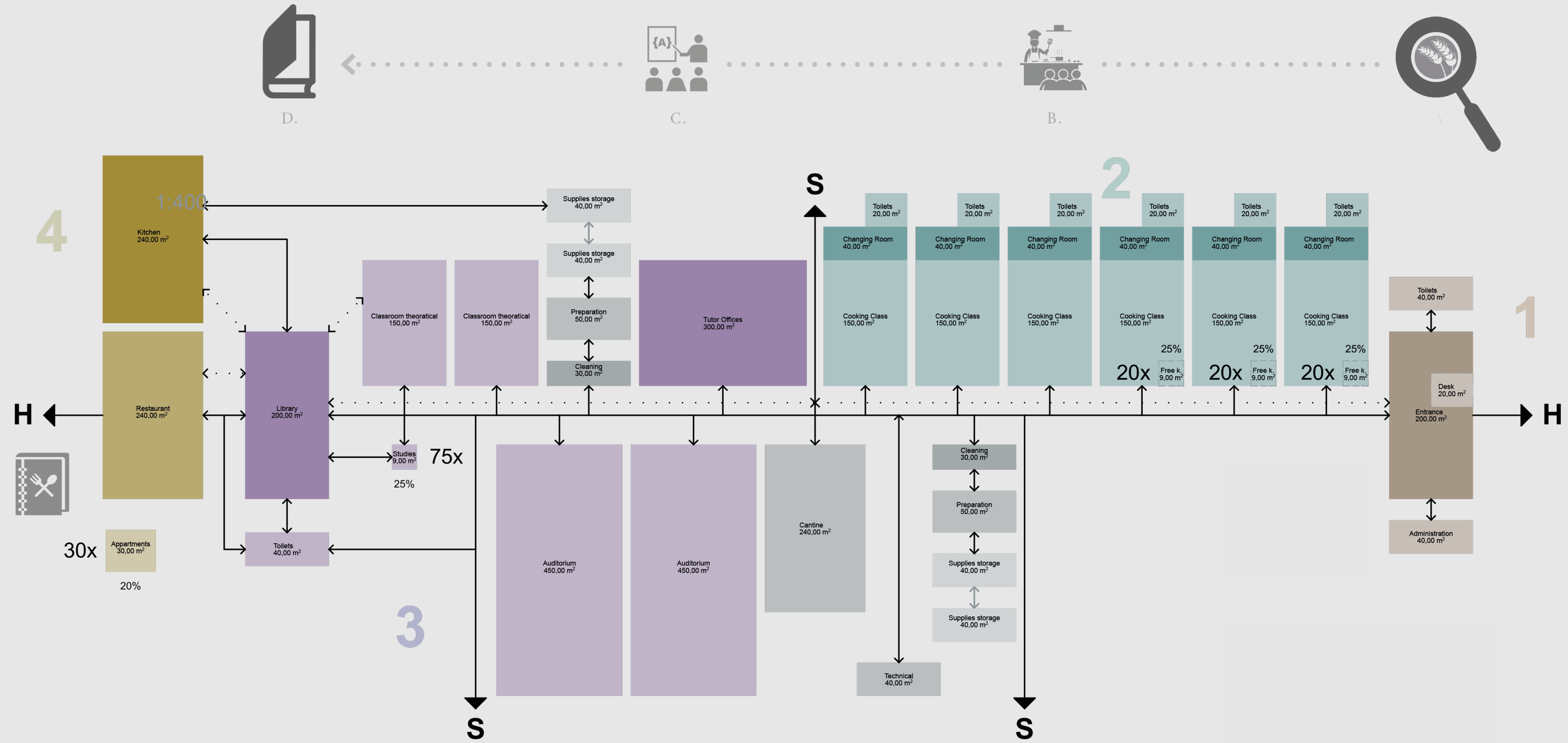


praktijk & theorie  
cuisine bibliotheek

kennis theorie (expert)

kennis praktijk

kennis van voedsel

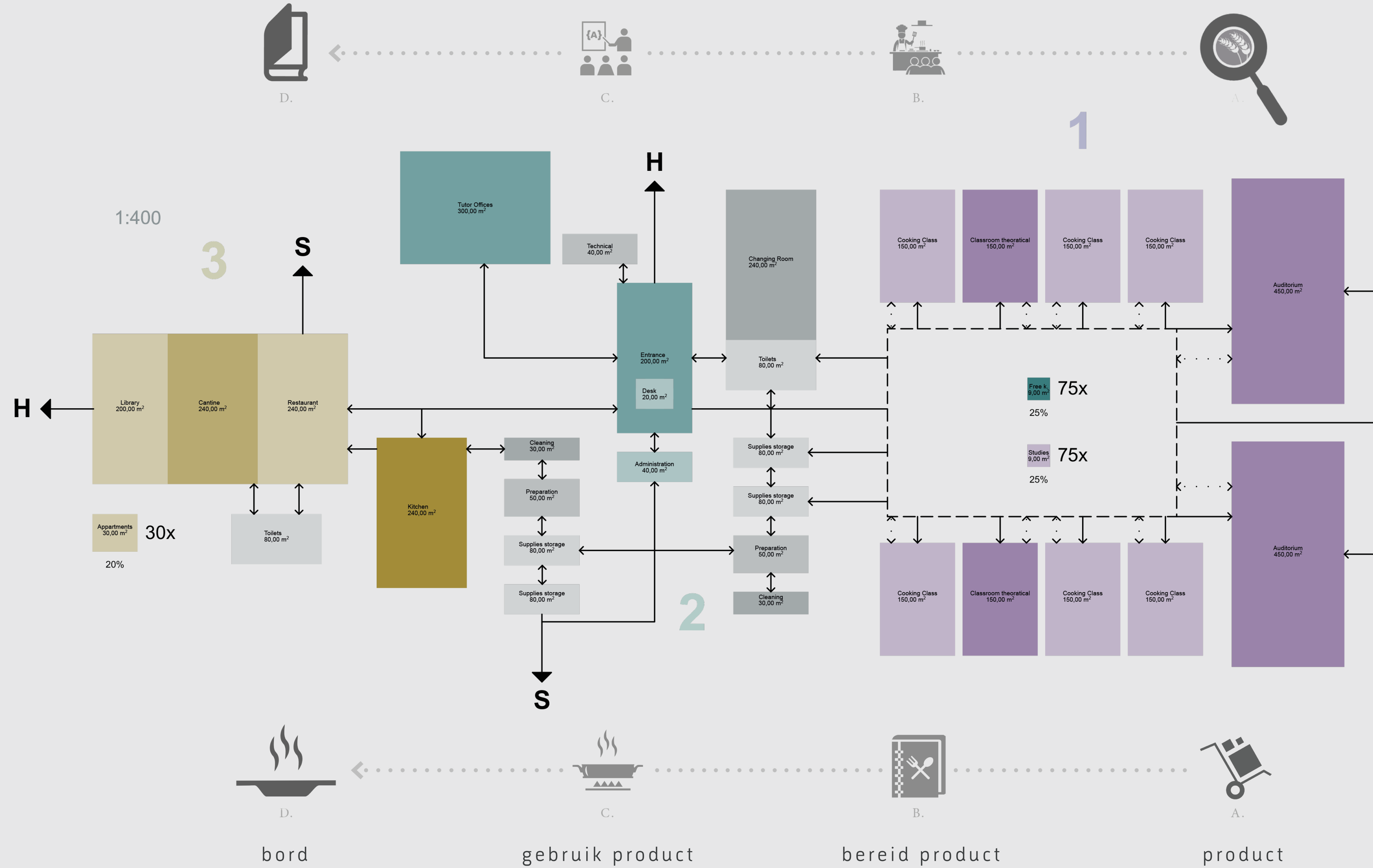


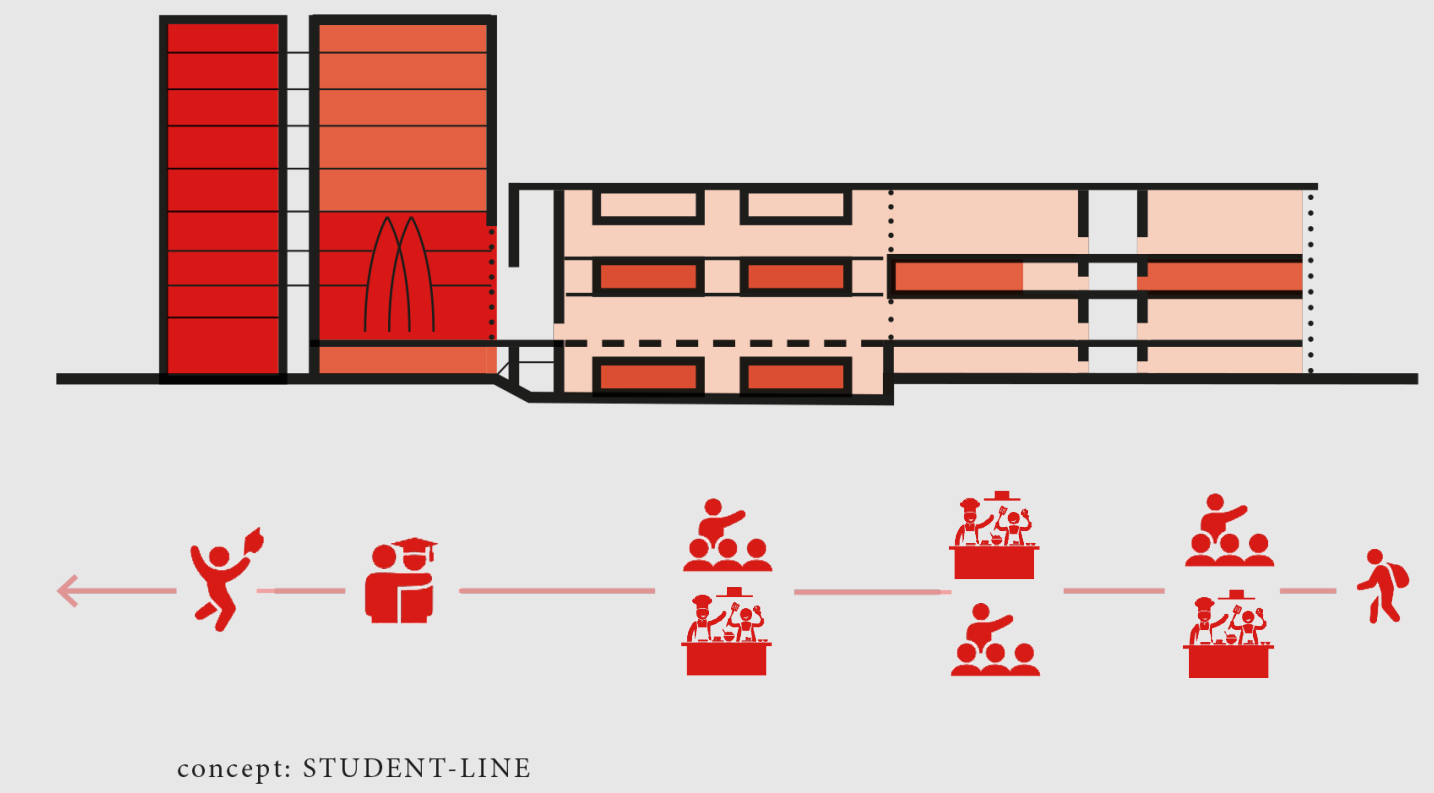
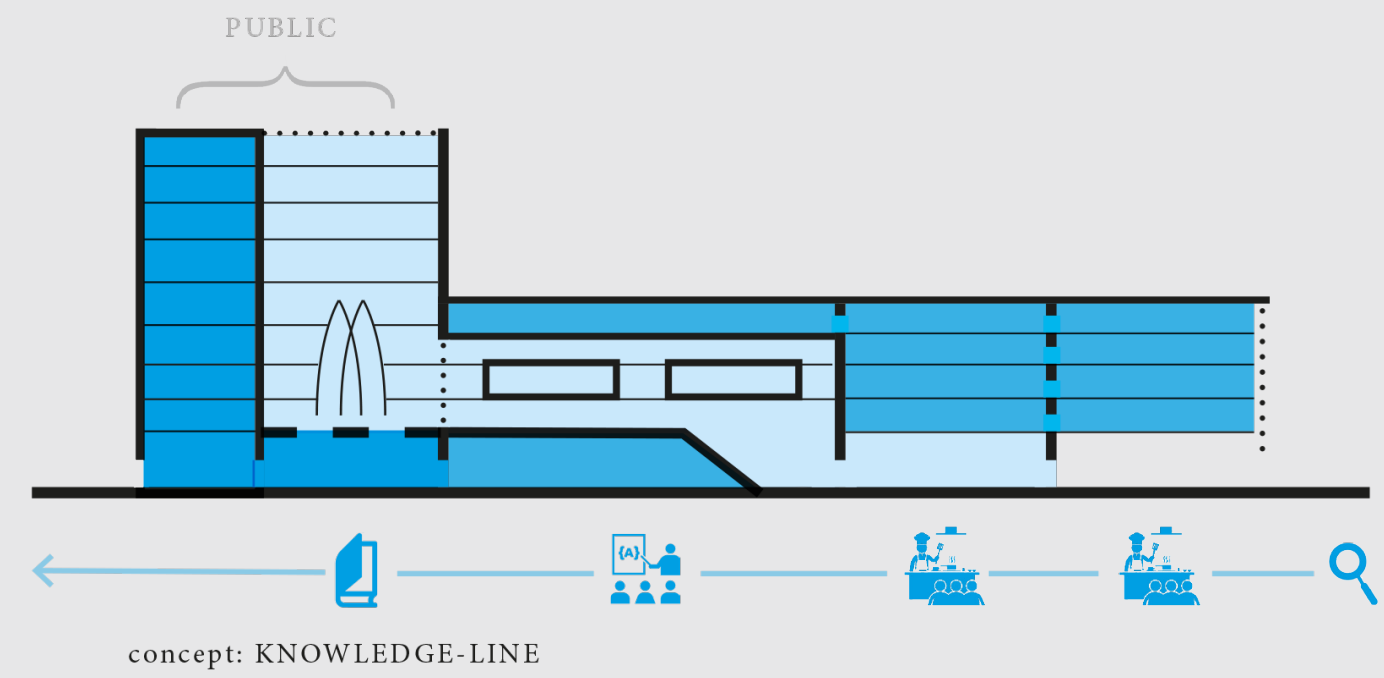
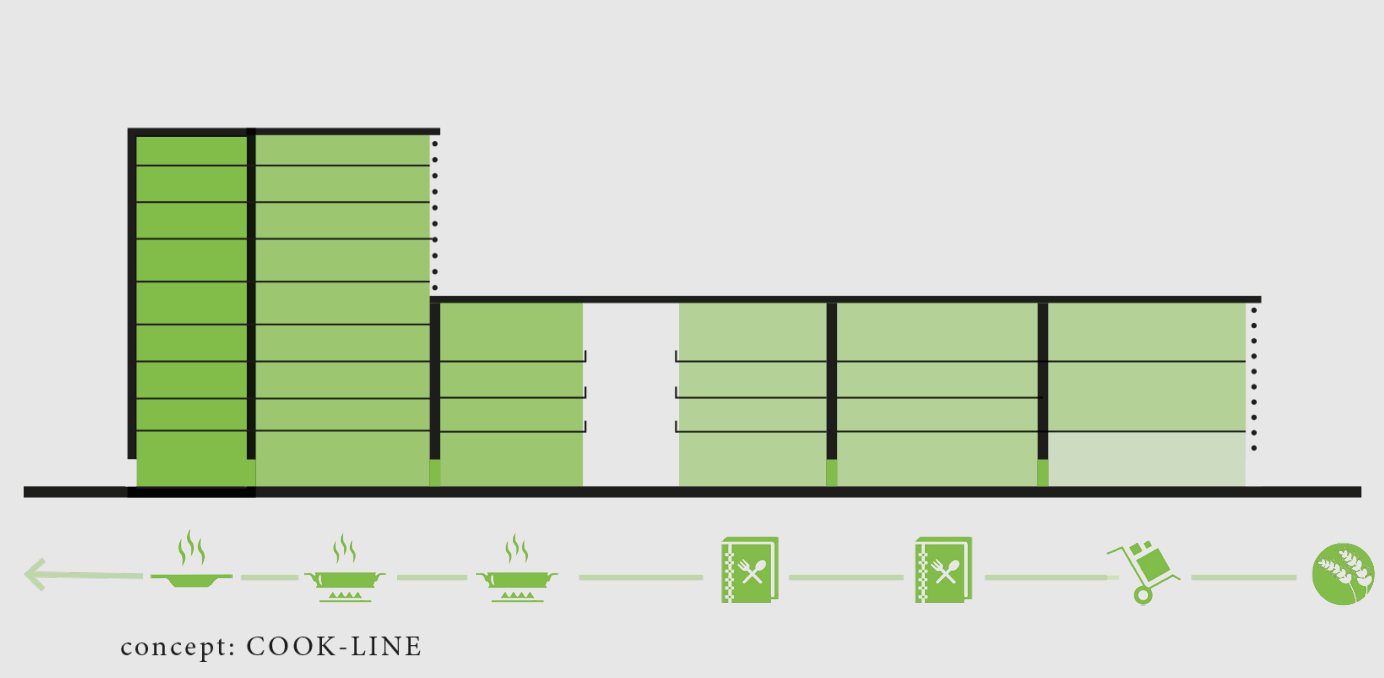
cuisine bibliotheek

kennis theorie (expert)

kennis praktijk

kennis van voedsel



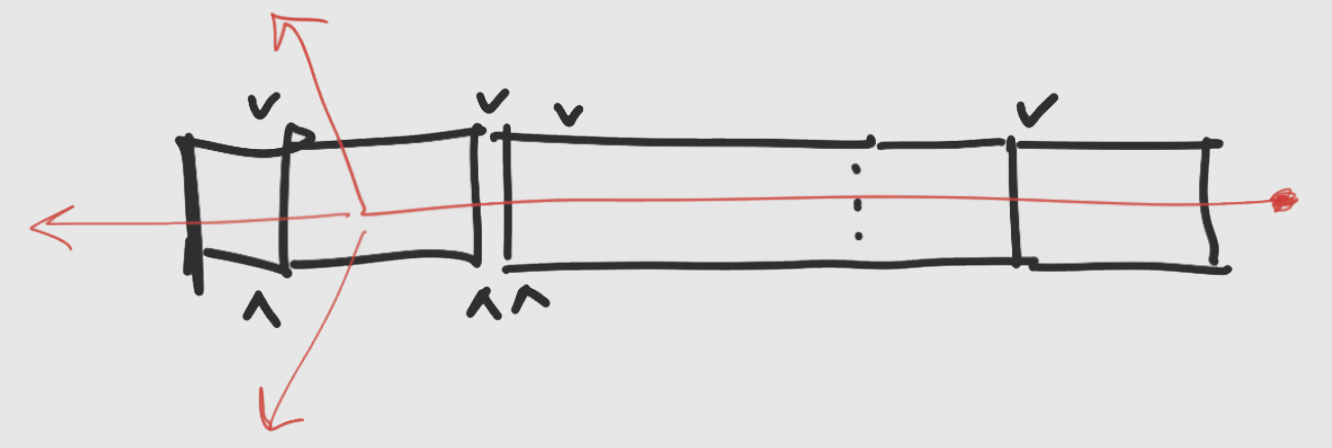


T	A	S/C	U	R	L
+++	+	+++	++	+++	++

T	A	S/C	U	R	L	personal best
++	+++	+++	++	+++	+++	

T	A	S/C	U	R	L
+	+++	+++	++	+++	+++

- T = Technical consequences related to value assessment
- A = Architectural qualities/potential
- S / C = In respect to Cultural values found
- U = Relation with urban plan
- R = Routing
- L = Light

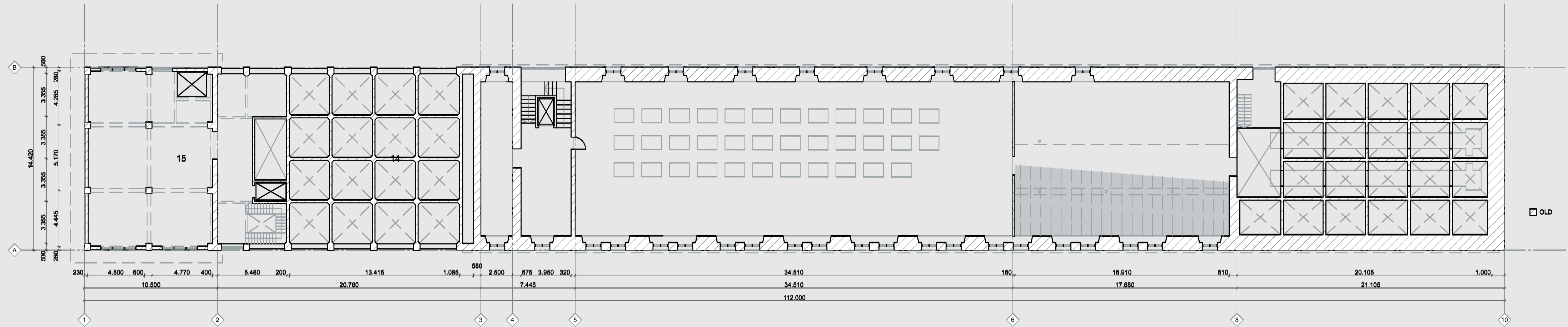




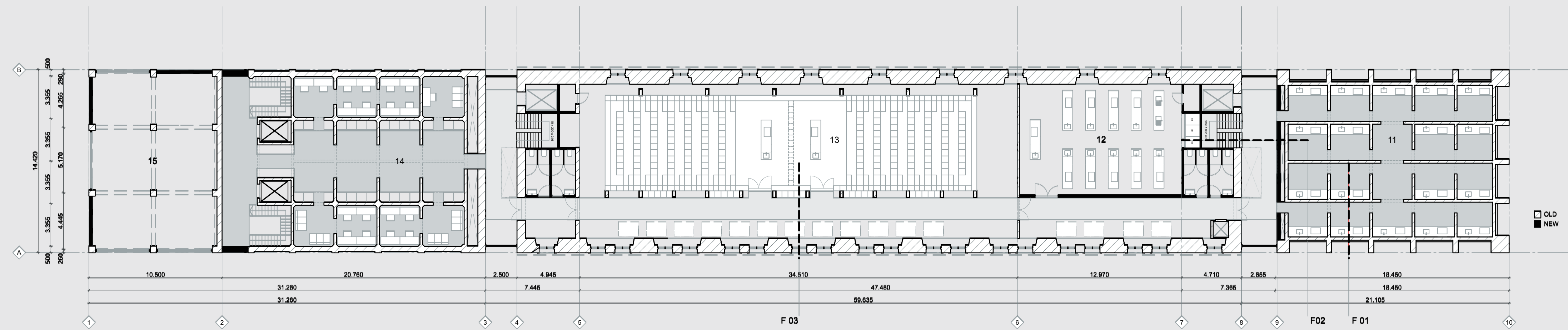
+33.000  
+29.000  
+24.720  
+20.440  
+16.160  
+11.880  
+7.600

+19.700  
+18.300  
+15.600  
+12.770  
+9.870  
+6.970  
+3.770

10.600 20.800 2.600 4.045 24.310 112.000 12.870 4.210 2.465 18.450  
1 2 3 4 5 6 7 8 9

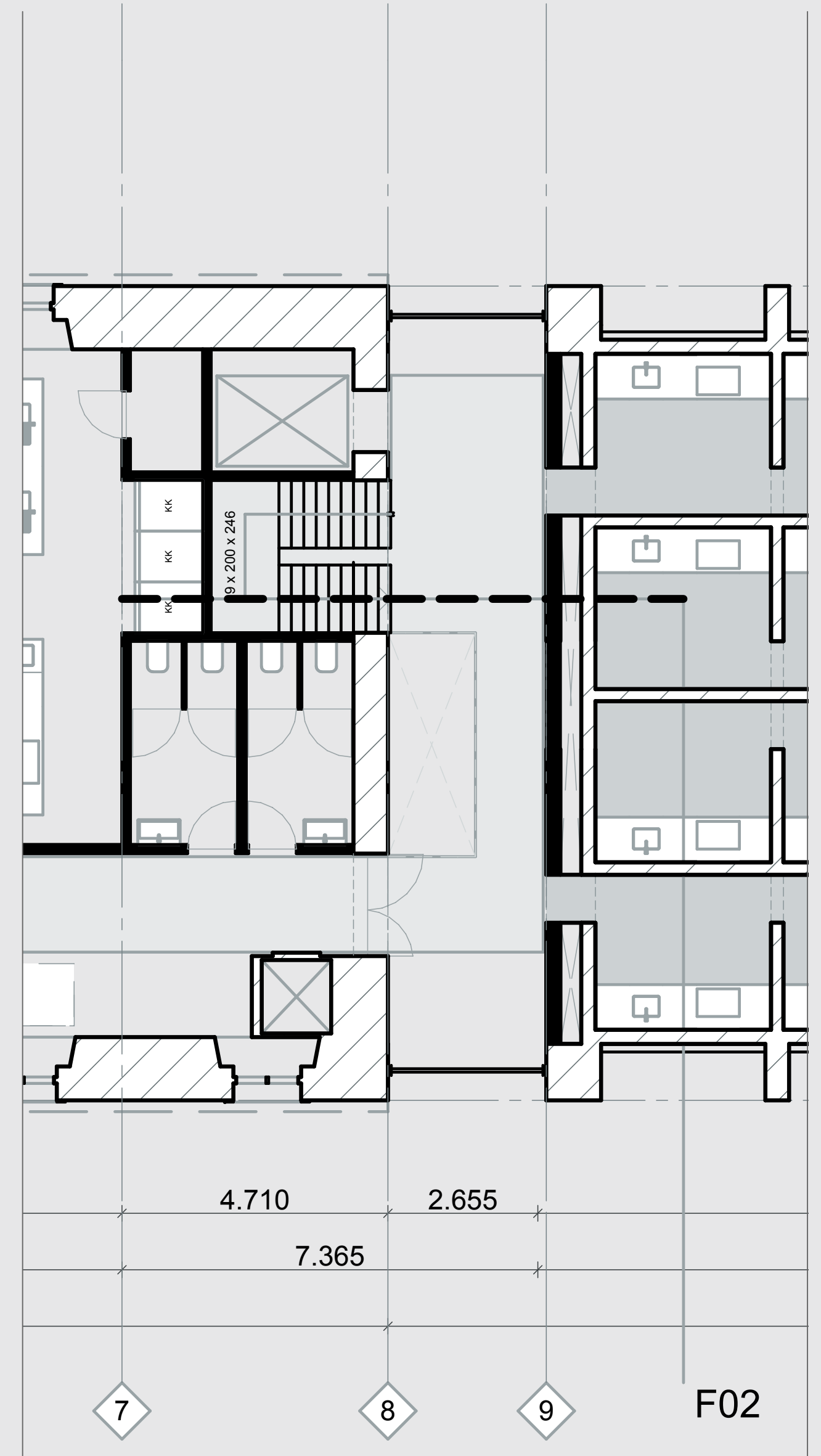
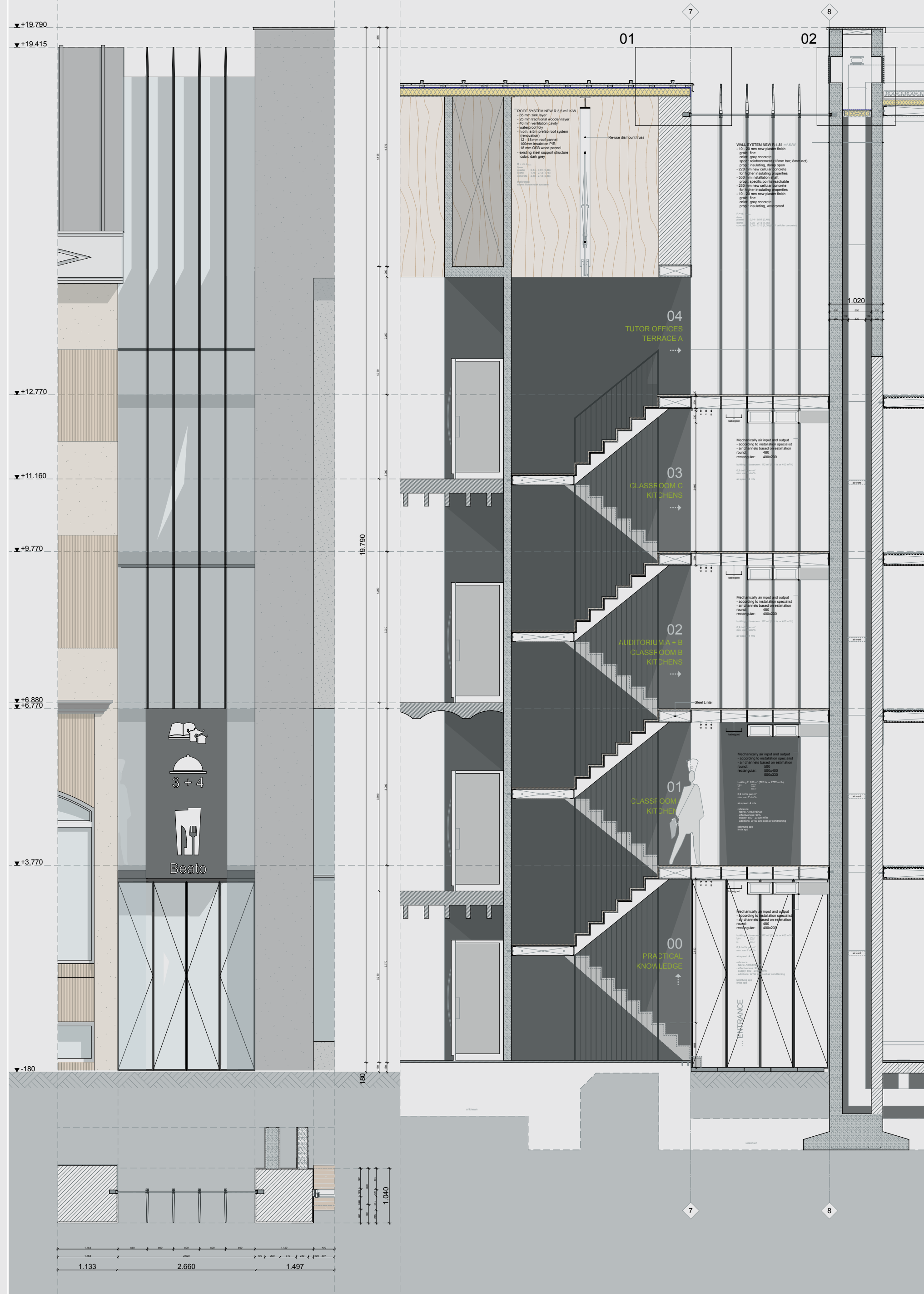


FIRST + SECOND FLOOR NEW



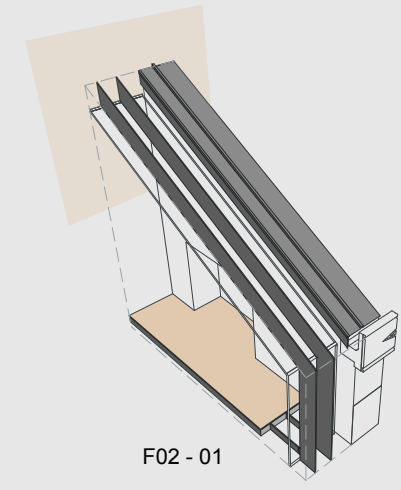
FIRST + SECOND FLOOR NEW





# DET 01

1:5



- ROOF SYSTEM NEW R 3,5 m2.K/W**
- 65 mm zink layer
  - 25 mm traditional wooden layer
  - 40 mm ventilation cavity
  - waterproof foly
  - h.o.h. ± 5m prefab roof system (renovation)
  - 12 - 18 mm roof pannel
  - 100mm insulation EPS
  - 18 mm OSB wood pannel
  - existing steel support structure color: dark grey

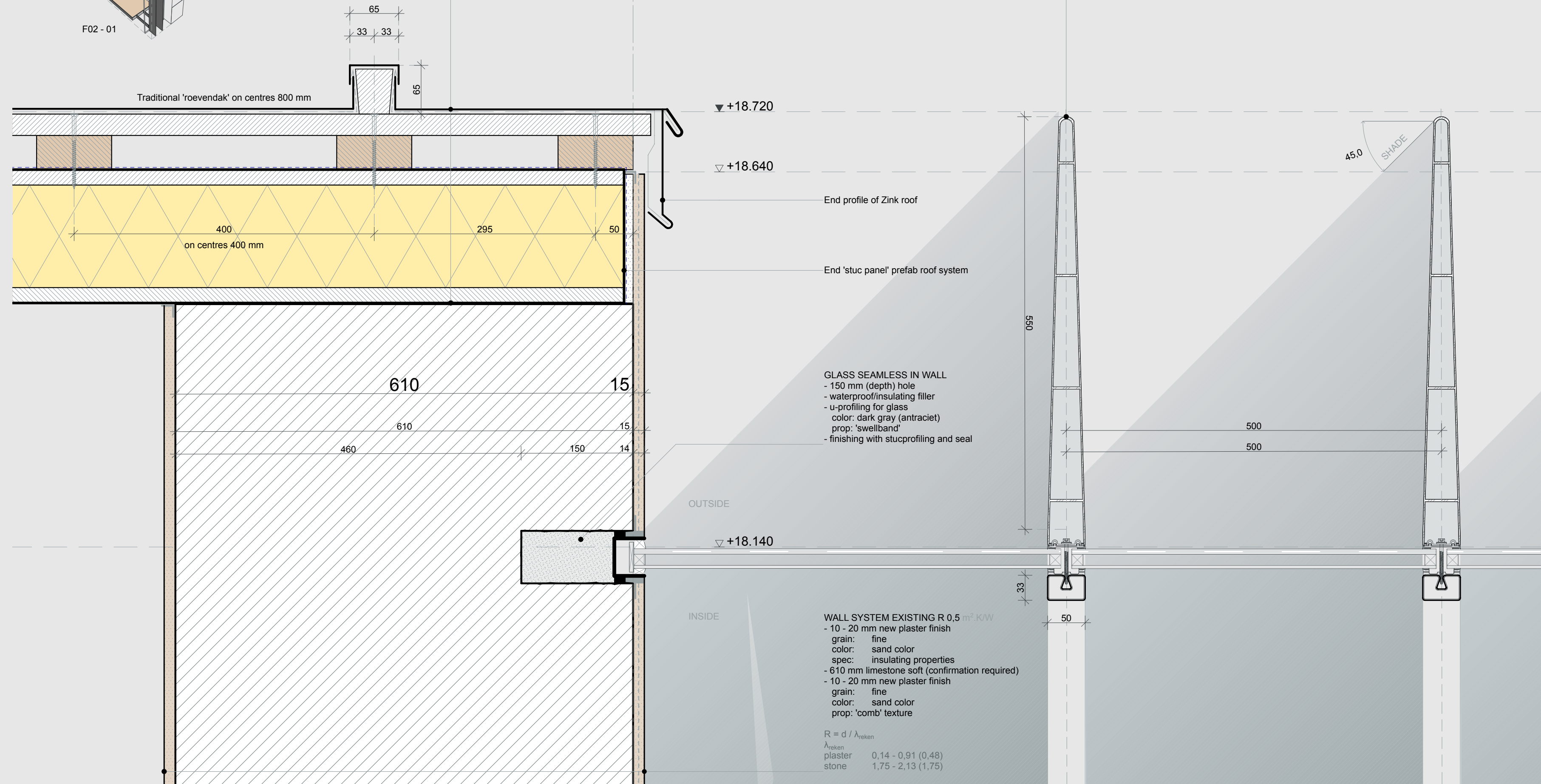
$R = d / \lambda_{reken}$

$\lambda_{reken}$	plaster	stone	concrete
0,14 - 0,91	0,48	1,75 - 2,13	1,75
2,38 - 2,13			2,38

Reference:  
name: Roevendak systeem  
name: Kingspan prefab insulation system

7

- CURTAIN WALL SYSTEM NEW R 2,0 - 3,0 m2.K/W**
- 550 mm (L) aluminium slat color: dark grey (antraciet)
  - 25 mm traditional wooden layer
  - HR++ Glass
  - attach.: double layer of glass outside (strength, warmth)
  - 50 (b) x 33 (d) curtain wall column
  - h.o.h. ± 500 mm prefab system (renovation)
  - main support structure/force transfer in floors color: dark grey



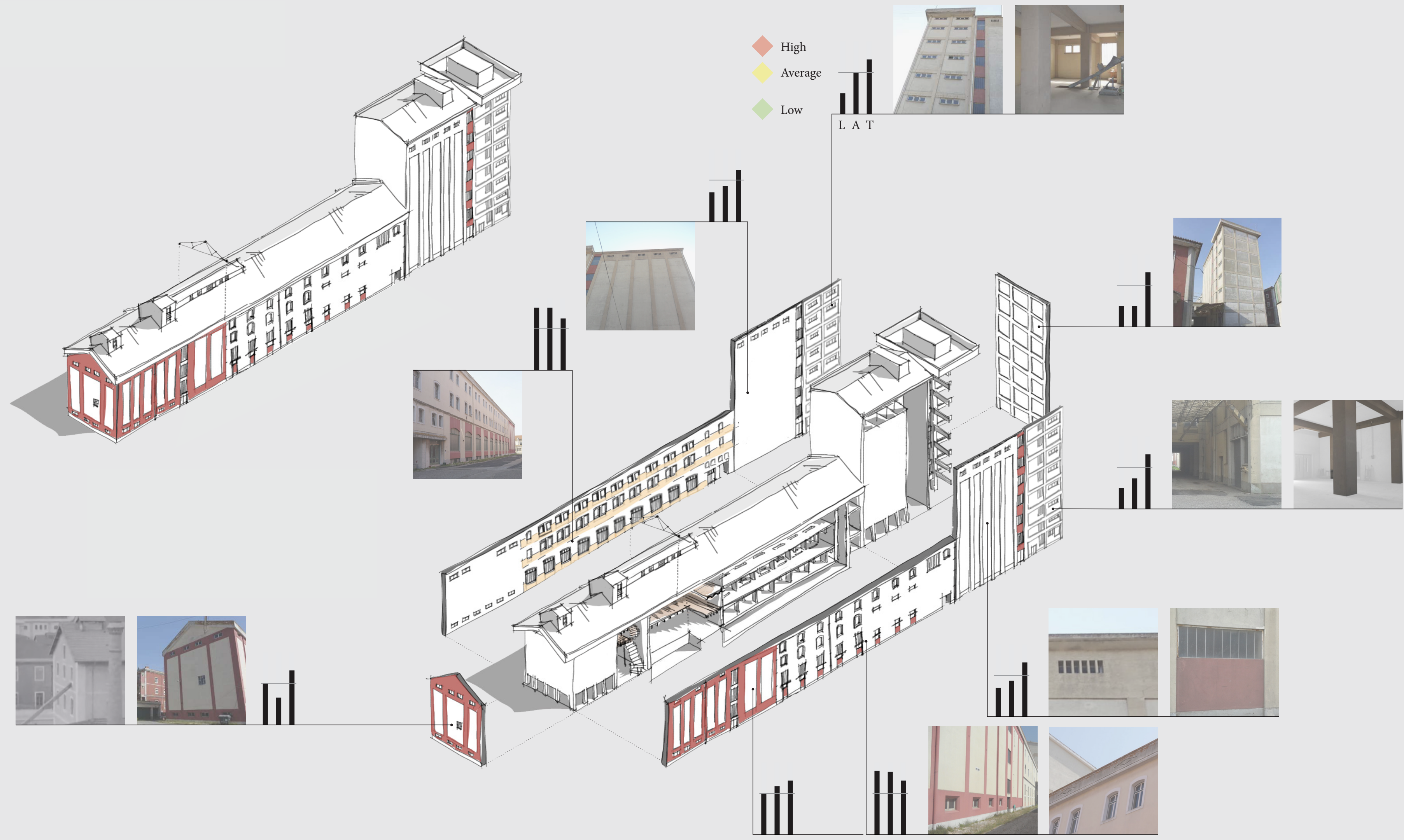
- GLASS SEAMLESS IN WALL**
- 150 mm (depth) hole
  - waterproof/insulating filler
  - u-profiling for glass color: dark gray (antraciet) prop: 'swellband'
  - finishing with stucprofiling and seal

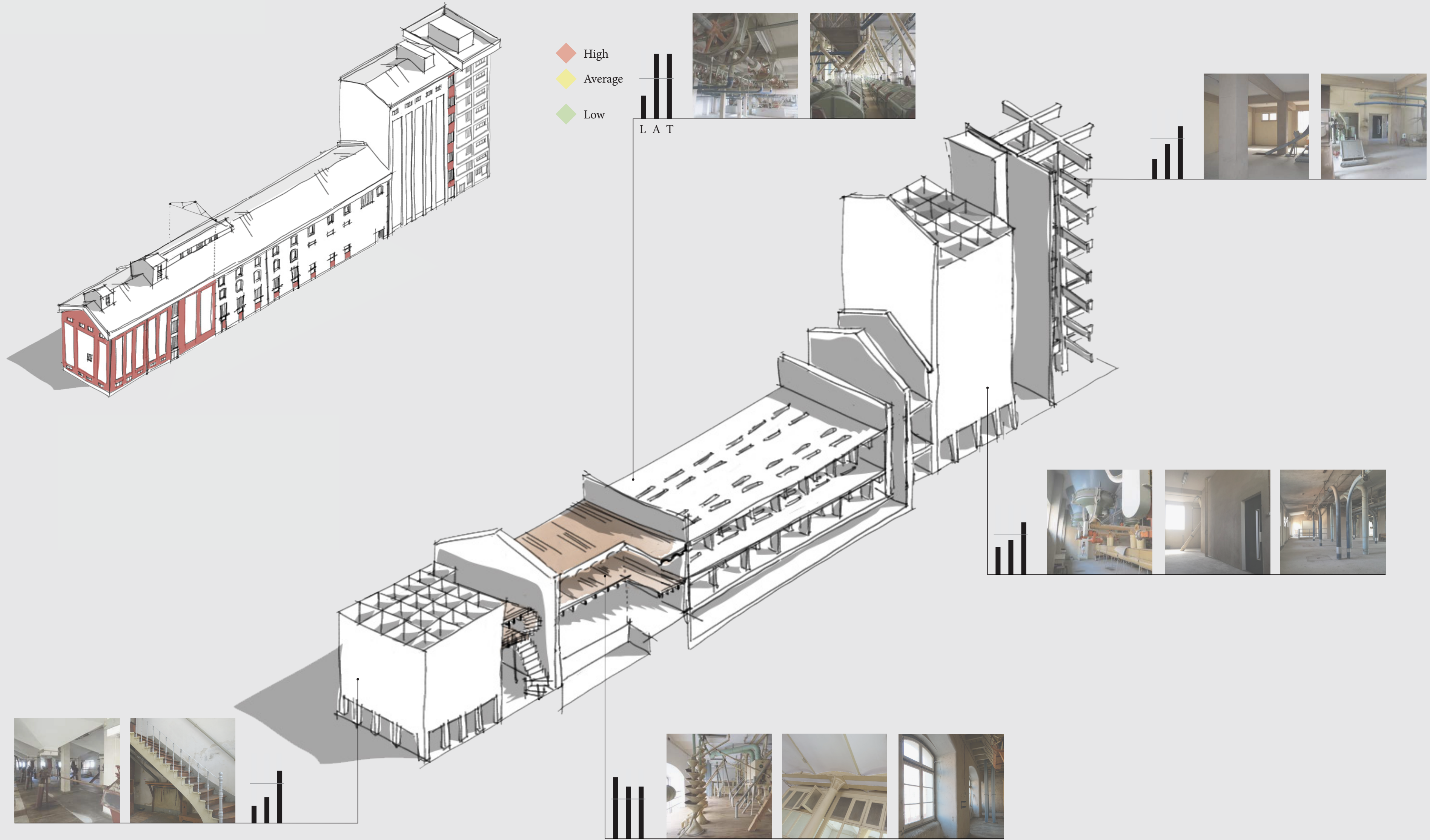
- WALL SYSTEM EXISTING R 0,5 m2.K/W**
- 10 - 20 mm new plaster finish grain: fine color: sand color spec: insulating properties
  - 610 mm limestone soft (confirmation required)
  - 10 - 20 mm new plaster finish grain: fine color: sand color prop: 'comb' texture

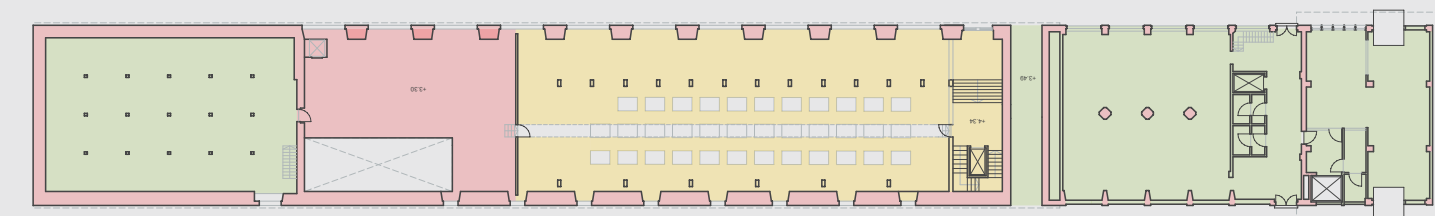
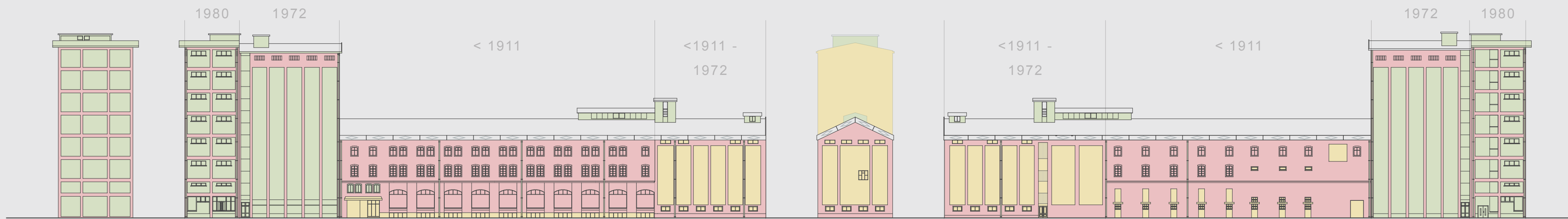
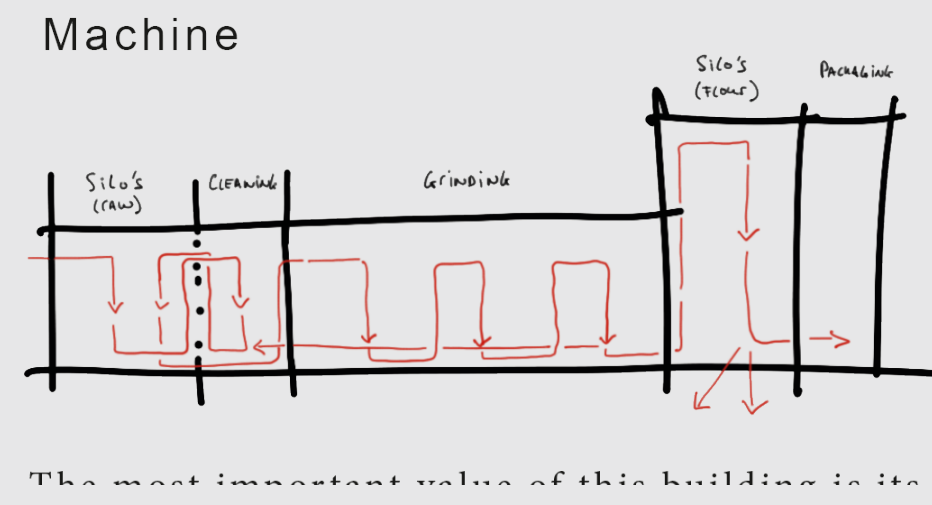
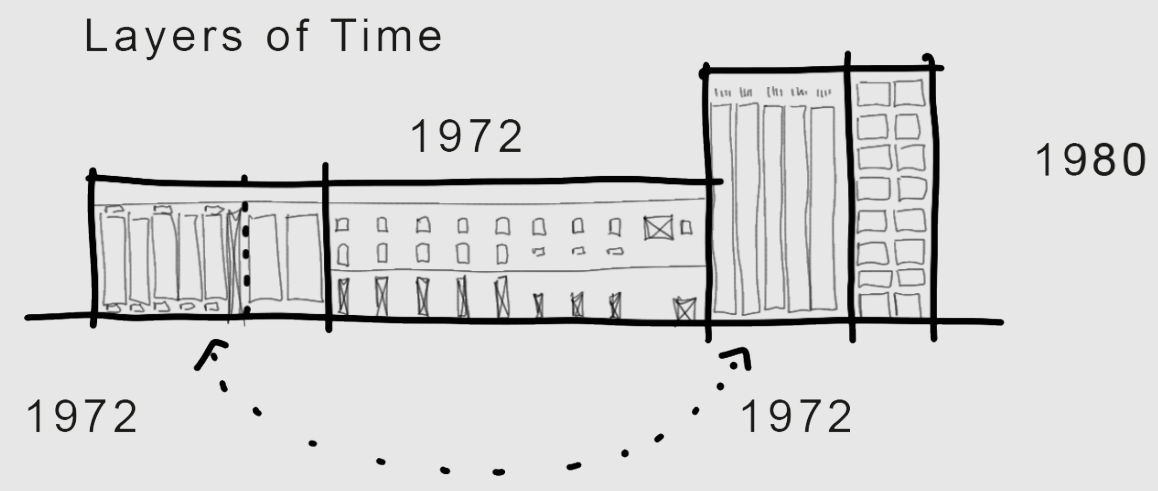
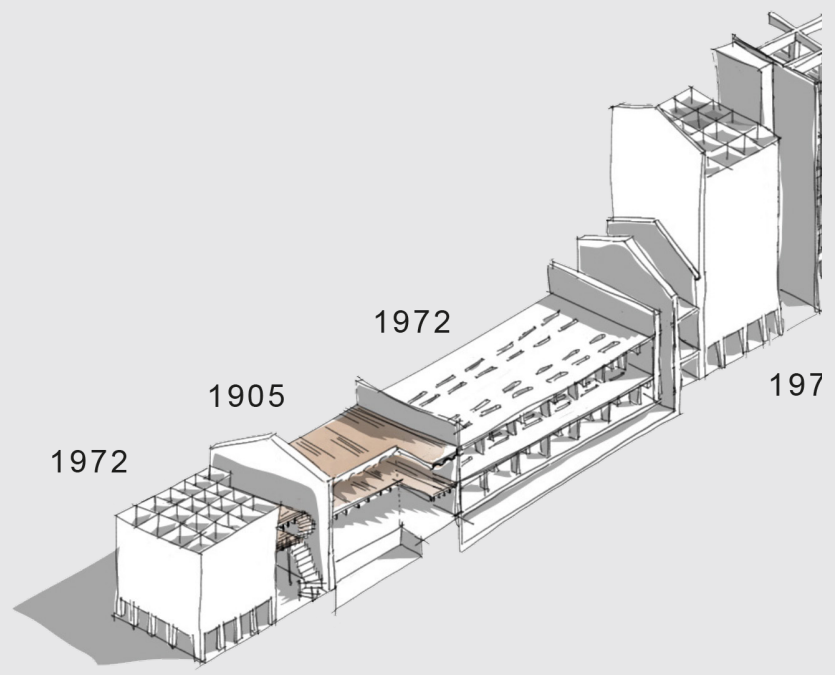
$R = d / \lambda_{reken}$

$\lambda_{reken}$	plaster	stone
0,14 - 0,91	0,48	1,75 - 2,13
1,75 - 2,13		1,75

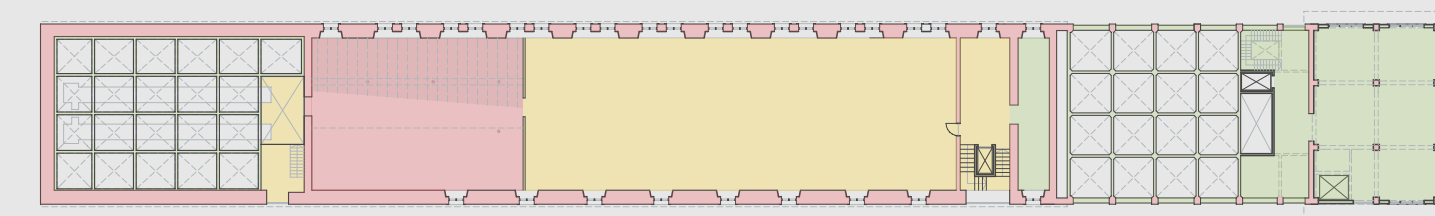




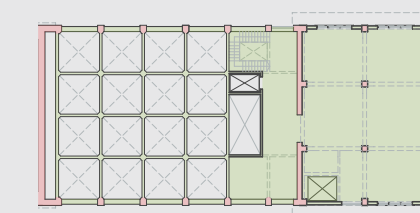




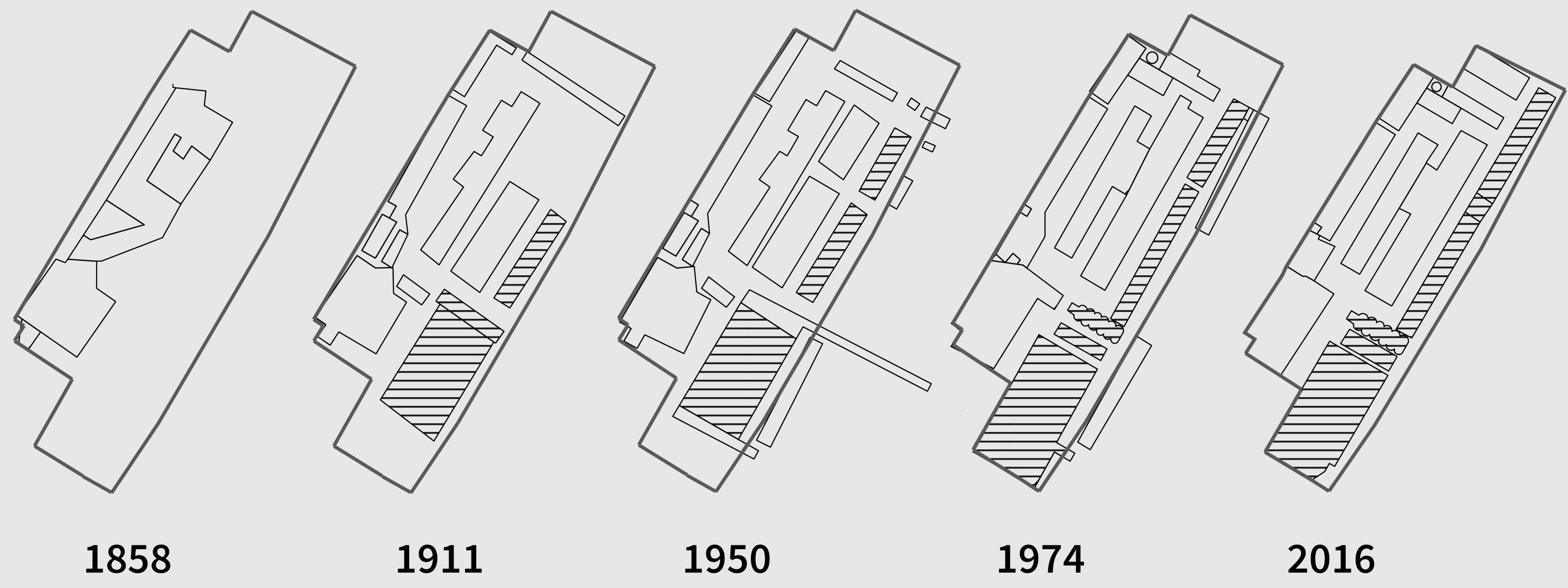
Ground Floor and First floor

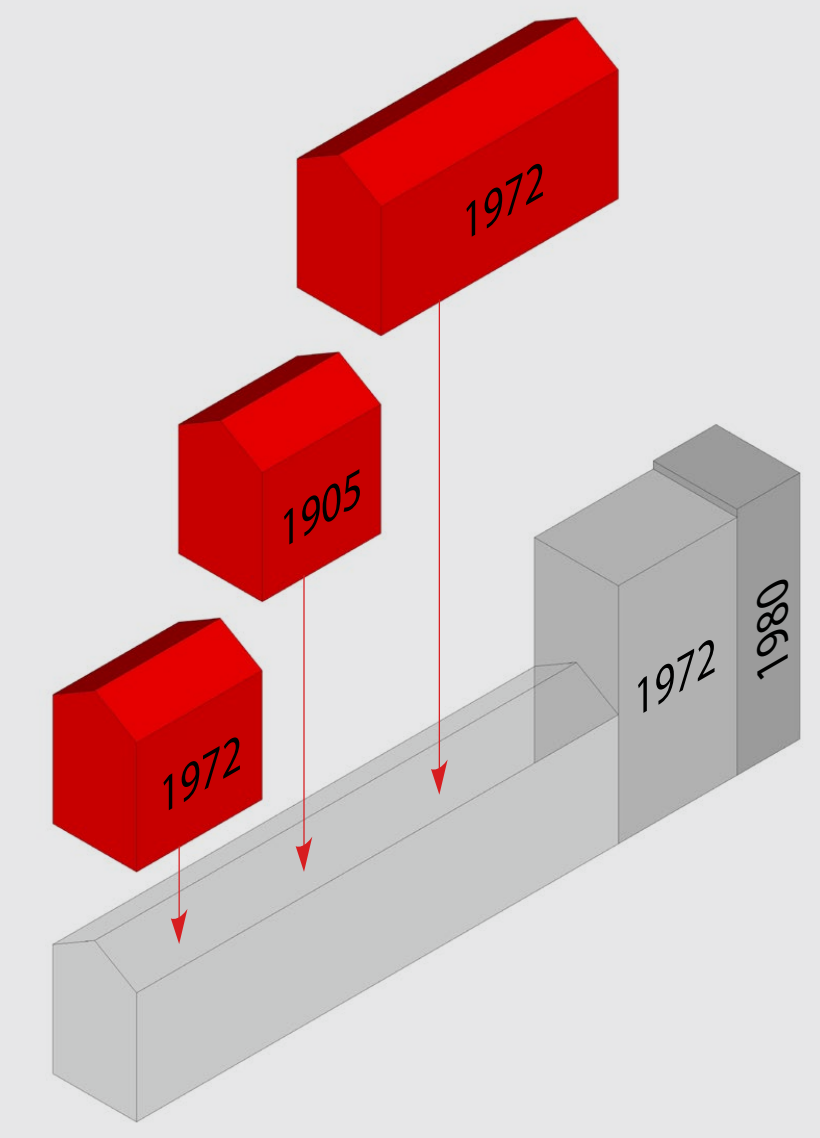
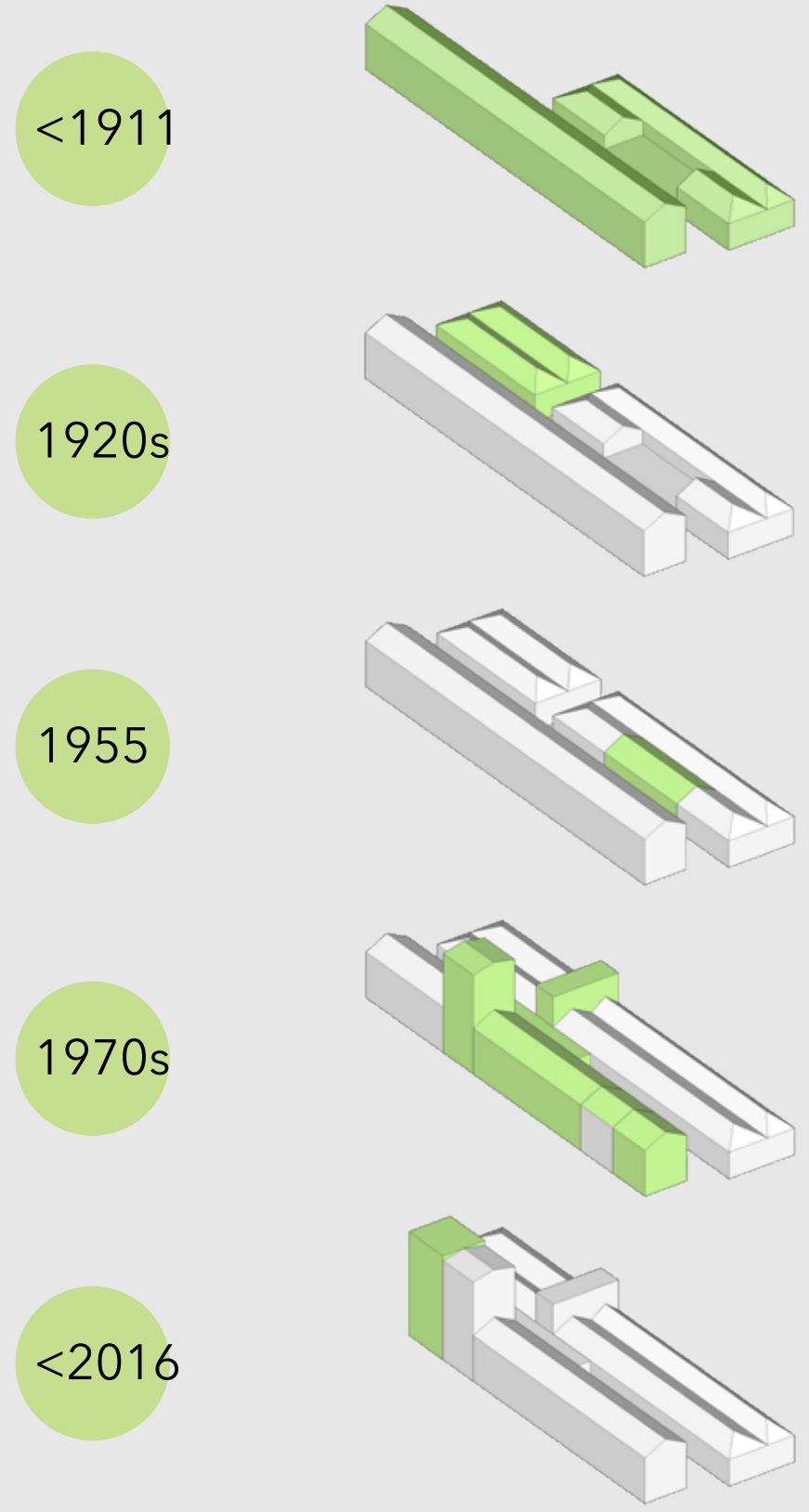


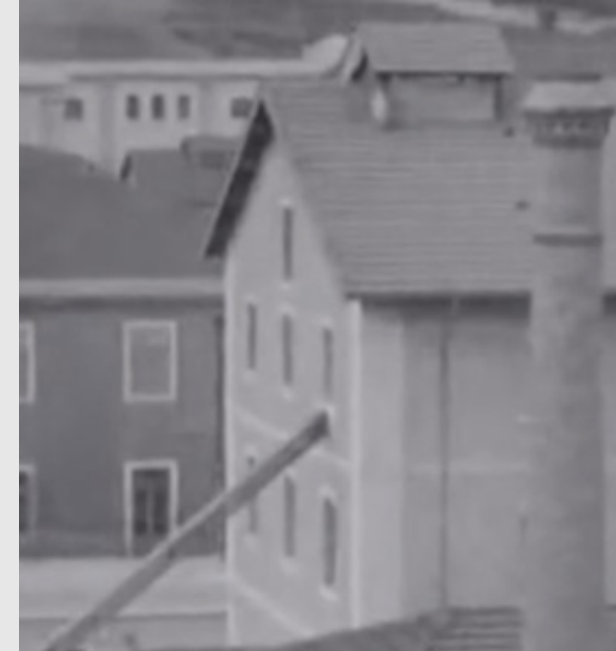
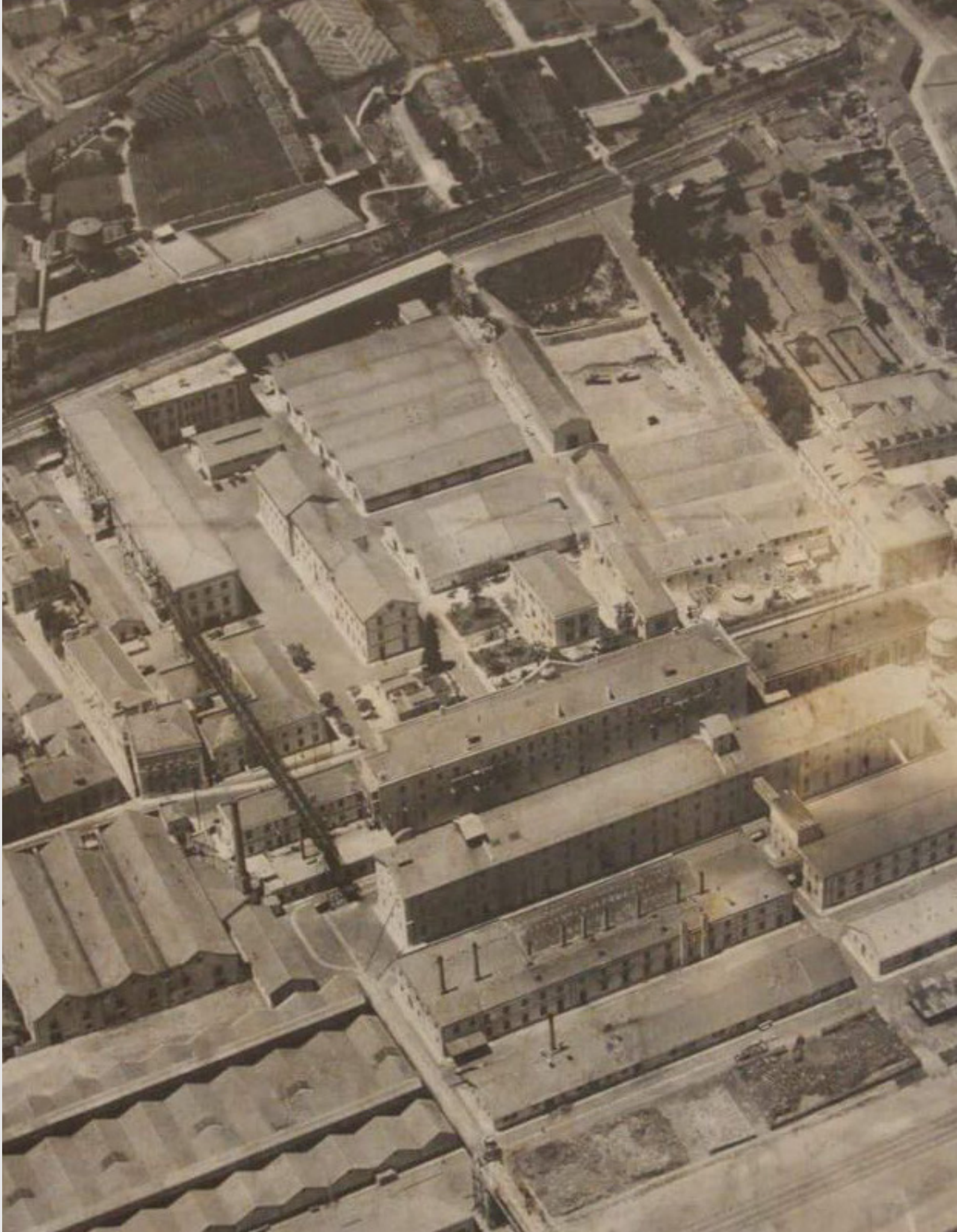
Second Floor



Second till Seventh Floor

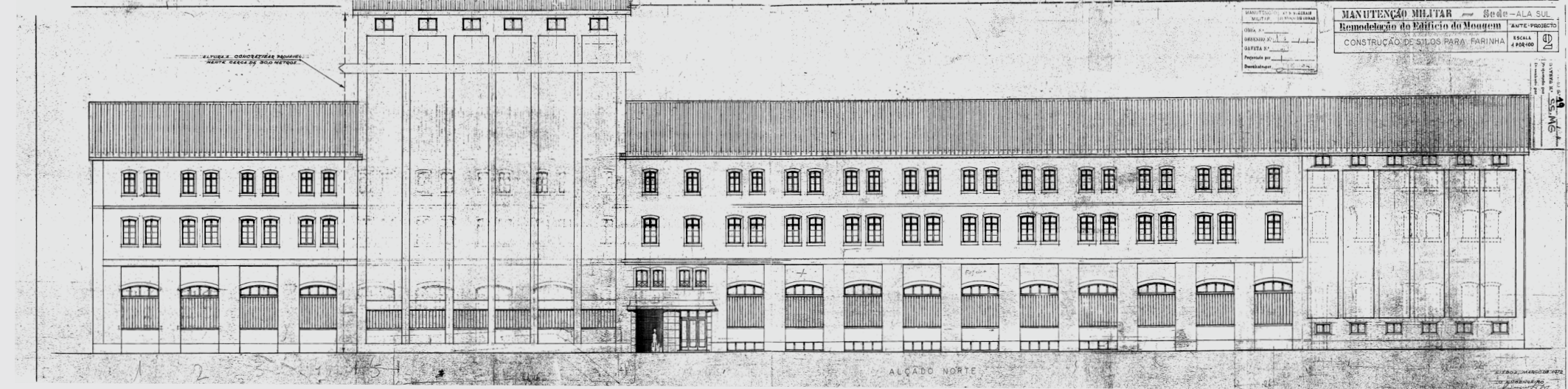






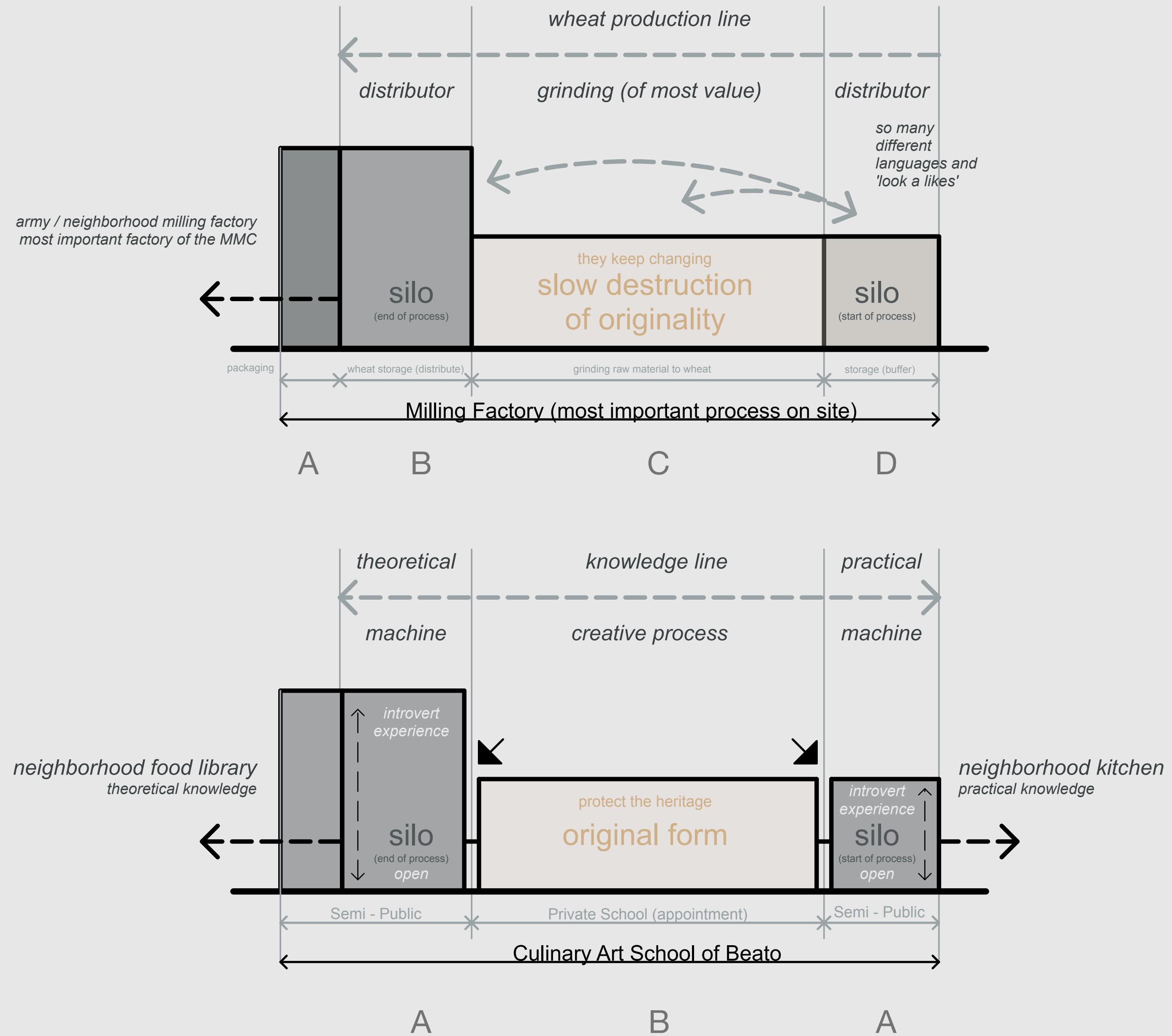
# Tijdslagen 1911 - 2016

Het enige originele stuk gebouw is het tussendeel. Het valt ook op dat de nieuwe silo's aan de voorkant een eigen vormtaal meekrijgen, lijkend op het nieuwe achterstuk.



LEFT VIEW OLD

Foto 1911 Municipal Lisbon





LEFT VIEW OLD



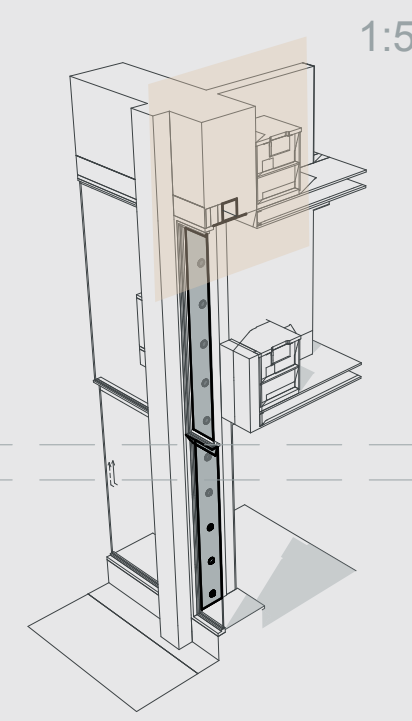
LEFT VIEW NEW





# DET 03

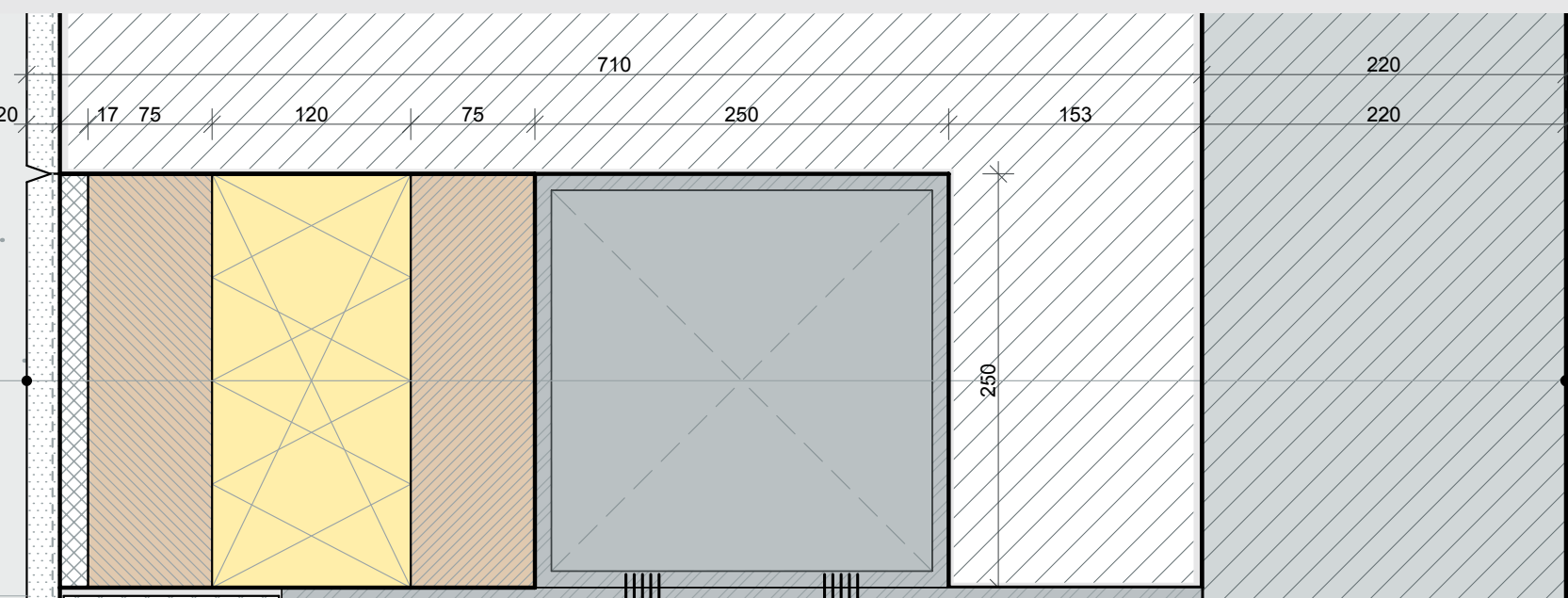
A



1:5

- WALL SYSTEM Rc**
- 220 mm of existing concrete wall (silo's)
  - 150 mm of existing wall (carving in existing)
  - prefabricated steel frame
  - spec.: gray (fine concrete)
  - cap.: supports structure, create frame window and sitting places
  - wooden prefab lint beam
  - spec.: forms one beam with the steel frame
  - 15 mm cement bound panel
  - 15 - 20 mm stucco
  - color: gray (rough concrete)
  - attach.: fiber screen (fabric)

▽ +6.790  
▼ +6.770



Electrical service for window opening

OUTSIDE

INSIDE

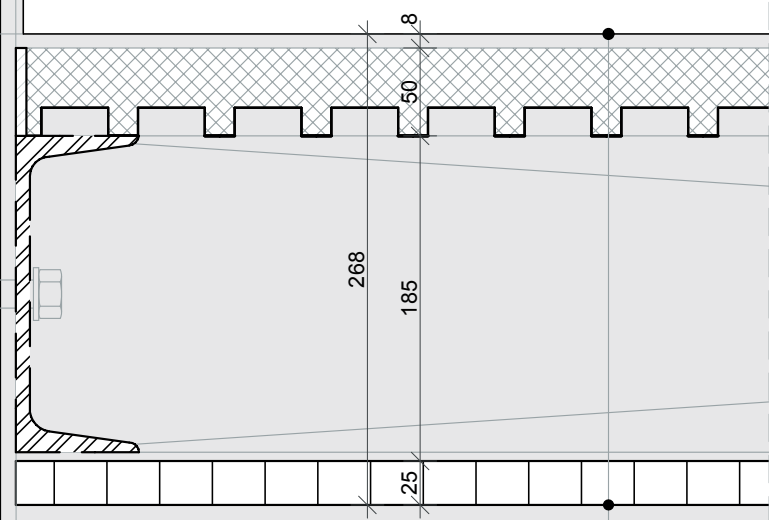
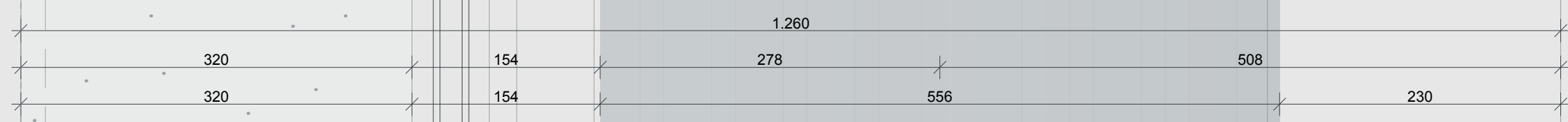
- WINDOW SYSTEM EXISTING U 1,1 W/m<sup>2</sup>.K**
- vertical slide window, bottom part
- dim.: 2900 x 3100 mm
- mat.: aluminium
- color: gray (concrete)
- glz.: HR++ insulating glass
- spec.: insulating properties

- Reference:
- fabric: Metaglas B.V.
  - type: Methermo XL, vertical slide window, XEVS-10B
  - material: aluminium
  - U-value (W/m<sup>2</sup>.K): 1,1
  - dimension (b x h) (mm): 2900 x 3100 (> 6 m<sup>2</sup>)
  - division: 2-parts, bottom part slide upwards
  - prop.: electrical operated, with app

- Glazing:
- double glazed HR++ insulating glass.
  - color: neutral (blank)
  - hinges: multi-point closure

Expansie schroef  
Door en door verbinden van frames

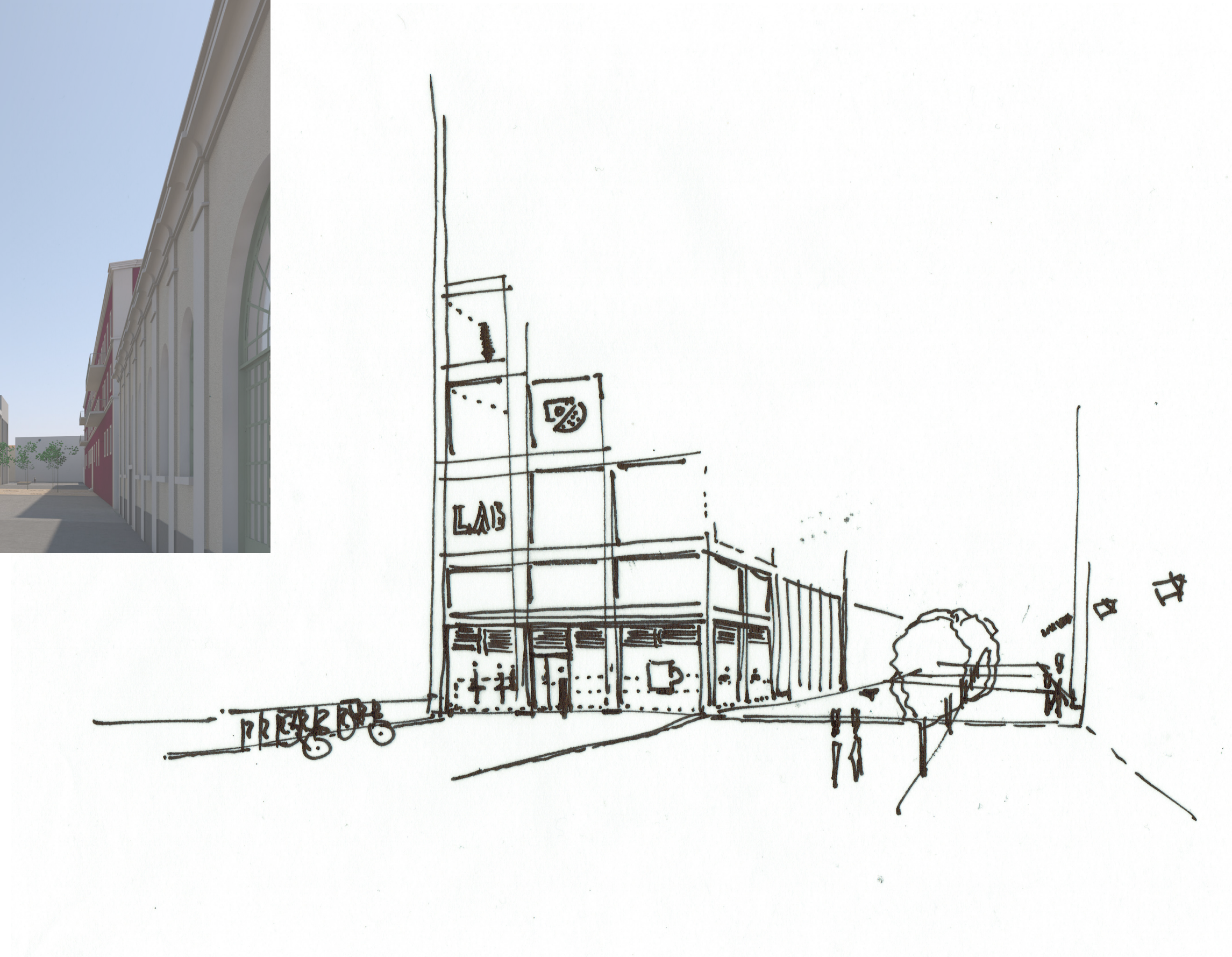
△ +6.070



- FLOOR SYSTEM NEW R ...**
- 34 mm high polished concrete
  - prop.: anti-slip coating integrated
  - 16 mm dovetail plate
  - 180 mm (h) steel support structure
  - attach.: lighting
  - translucent pannel (clean white)

- Reference:
- fabric: LEWIS zwaluwstaartplaten







Musashino Art University Museum & Library

