THE BAUDARTIUS CENTRE FOR VISUAL ARTS

A NEW ENTRANCE TO ZUTPHEN

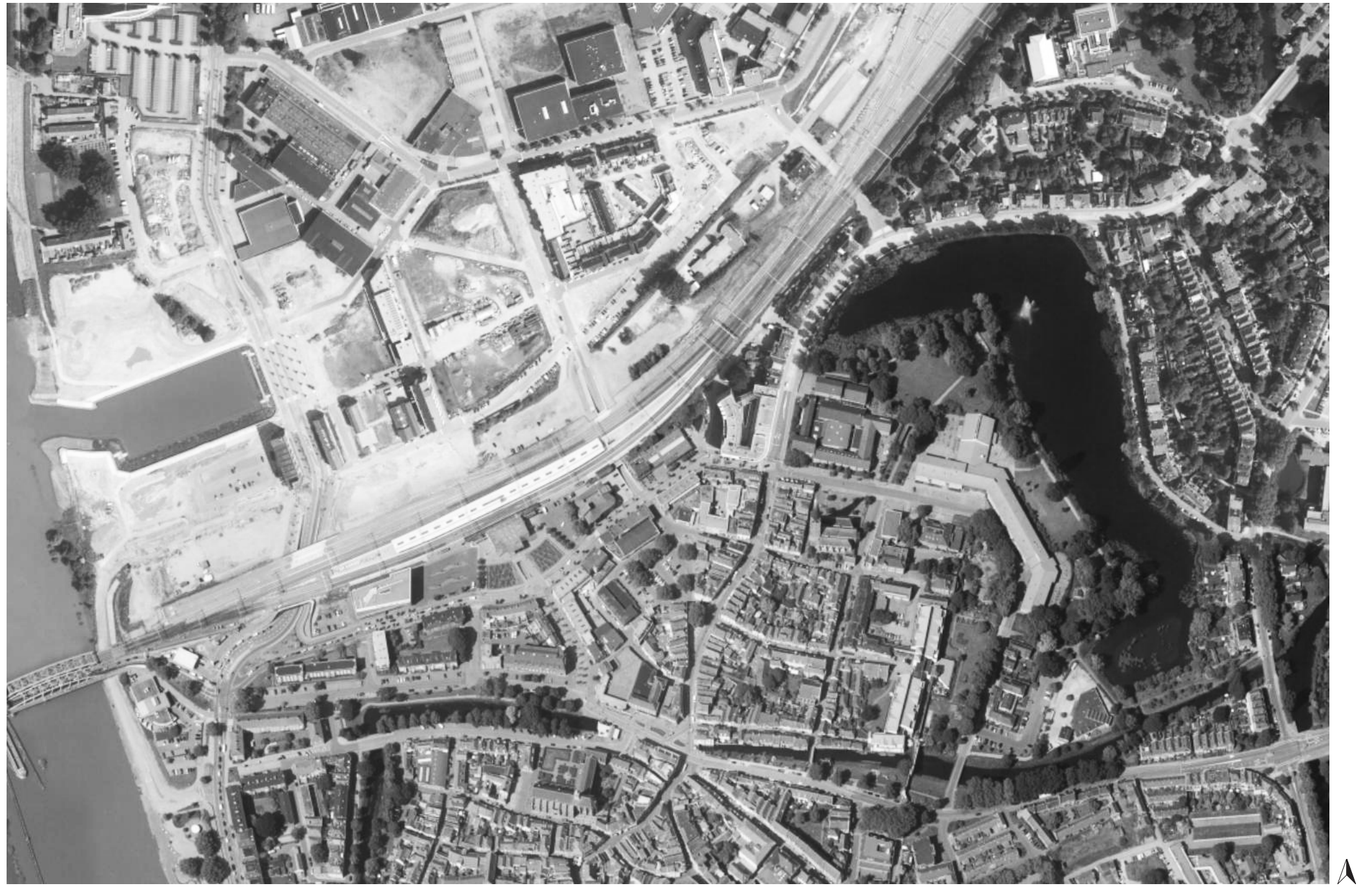
LOCATION
ZUTPHEN

source: esri arcgis

LOCATION
NIEUWSTAD

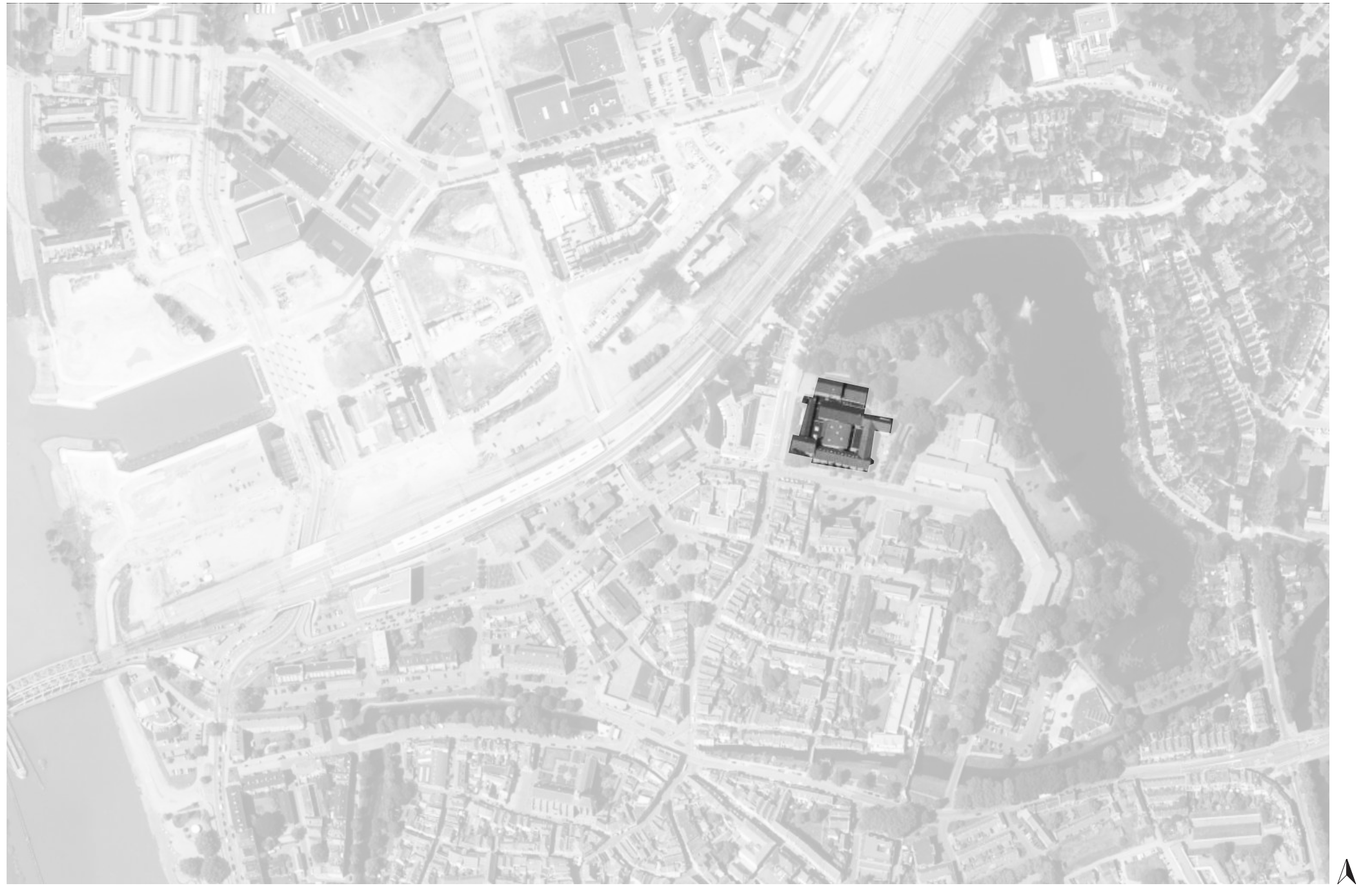
source: esri arcgis

LOCATION
BAUDARTIUS



source: esri arcgis

LOCATION
BAUDARTIUS



source: esri arcgis

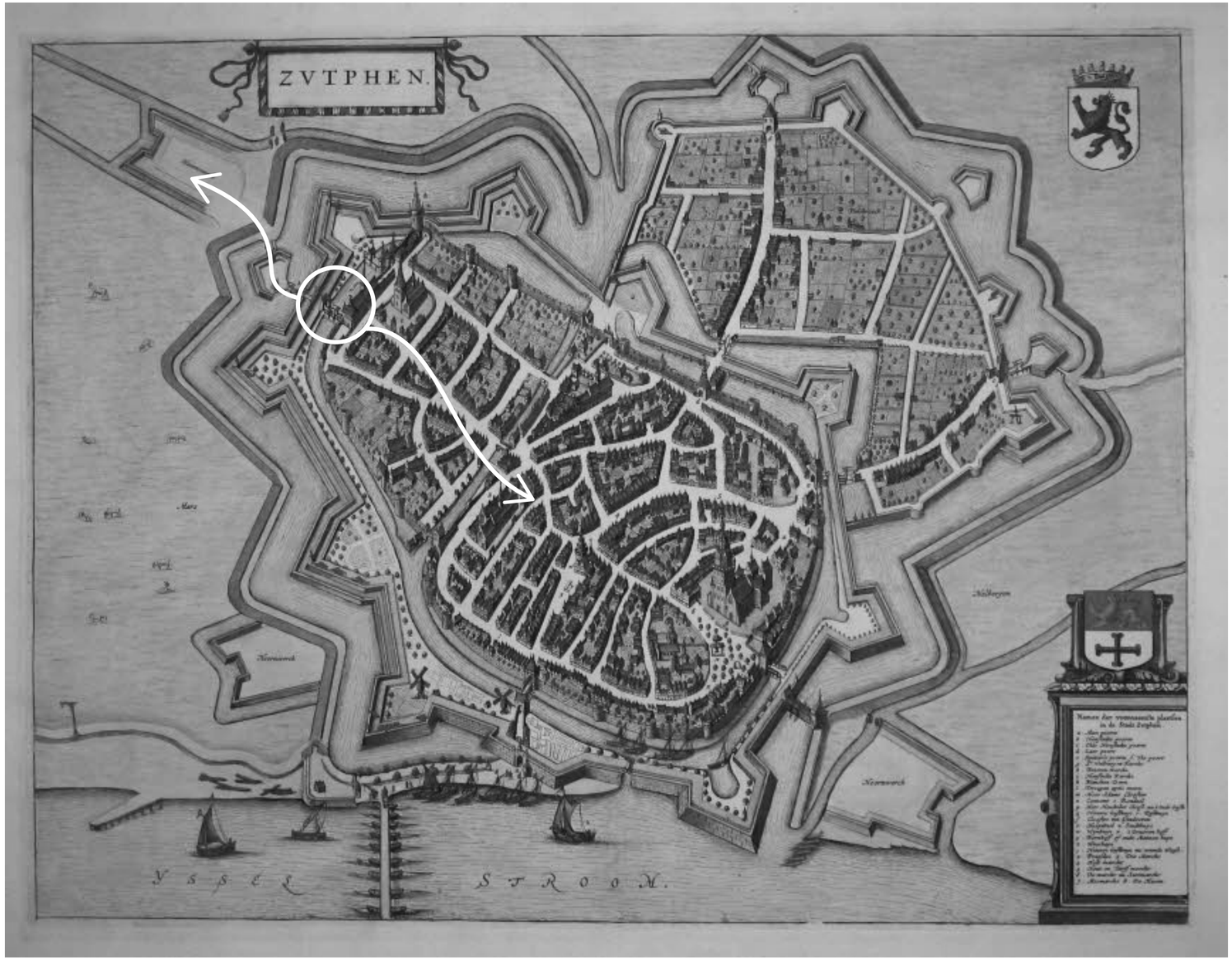
LOCATION
BAUDARTIUS

URBAN ANALYSIS

URBAN
FORTIFICATIONS

source: esri arcgis

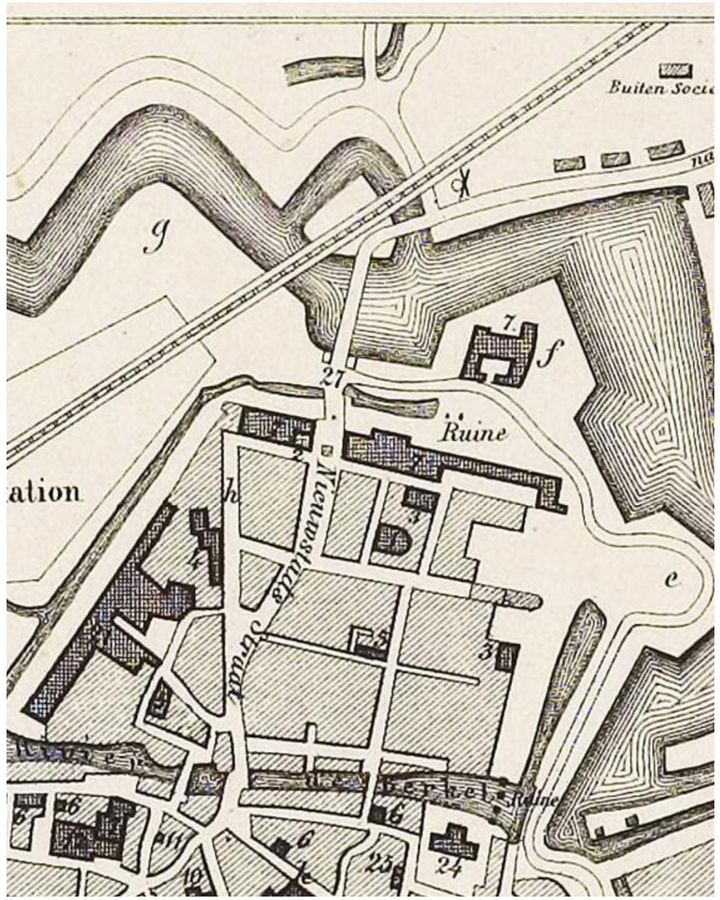
URBAN
FORTIFICATIONS



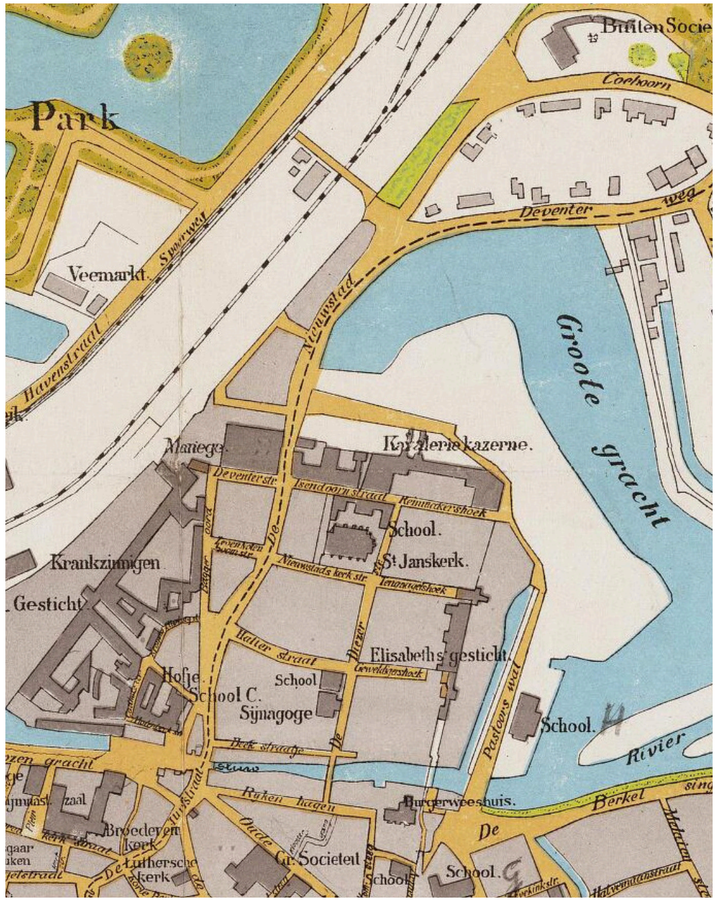
BLAEU, 1649

source: http://www.regionaalarchiefzutphen.nl/beeld/detail?q=blaeu&page=1&asset=38e9903d-2fe4-bb88-c426-b5d316b65a24

URBAN
FORTIFICATIONS



1866



1893

1951

source: http://www.regionaalarchiefzutphen.nl

URBAN
CURRENT SITUATION

source: https://hetverkopenvanjeoma.wordpress.com/2015/01/07/monumenten-als-spaarvarken-zonder-hamer/

URBAN
CONCLUSIONS

CHANGING BORDER BETWEEN THE CITY & OUTSIDE

FORMER GATE AT NODE OF URBAN STRUCTURES

RESEARCH QUESTION

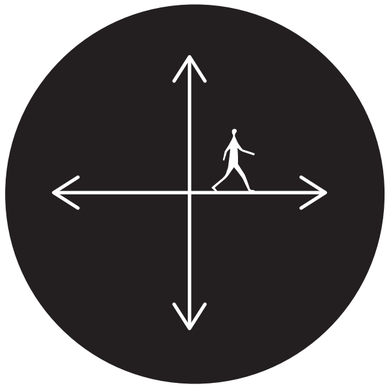
HOW CAN THE TRANSFORMATION OF THE BAUDARTIUS COLLEGE
RE-ESTABLISH THE IDENTITY AS FORMER GATEWAY TO THE CITY,
WHICH SERVES AS A SPATIAL AND SOCIAL CONNECTING POINT?

MASTERPLAN

MASTERPLAN
AMBITIONS

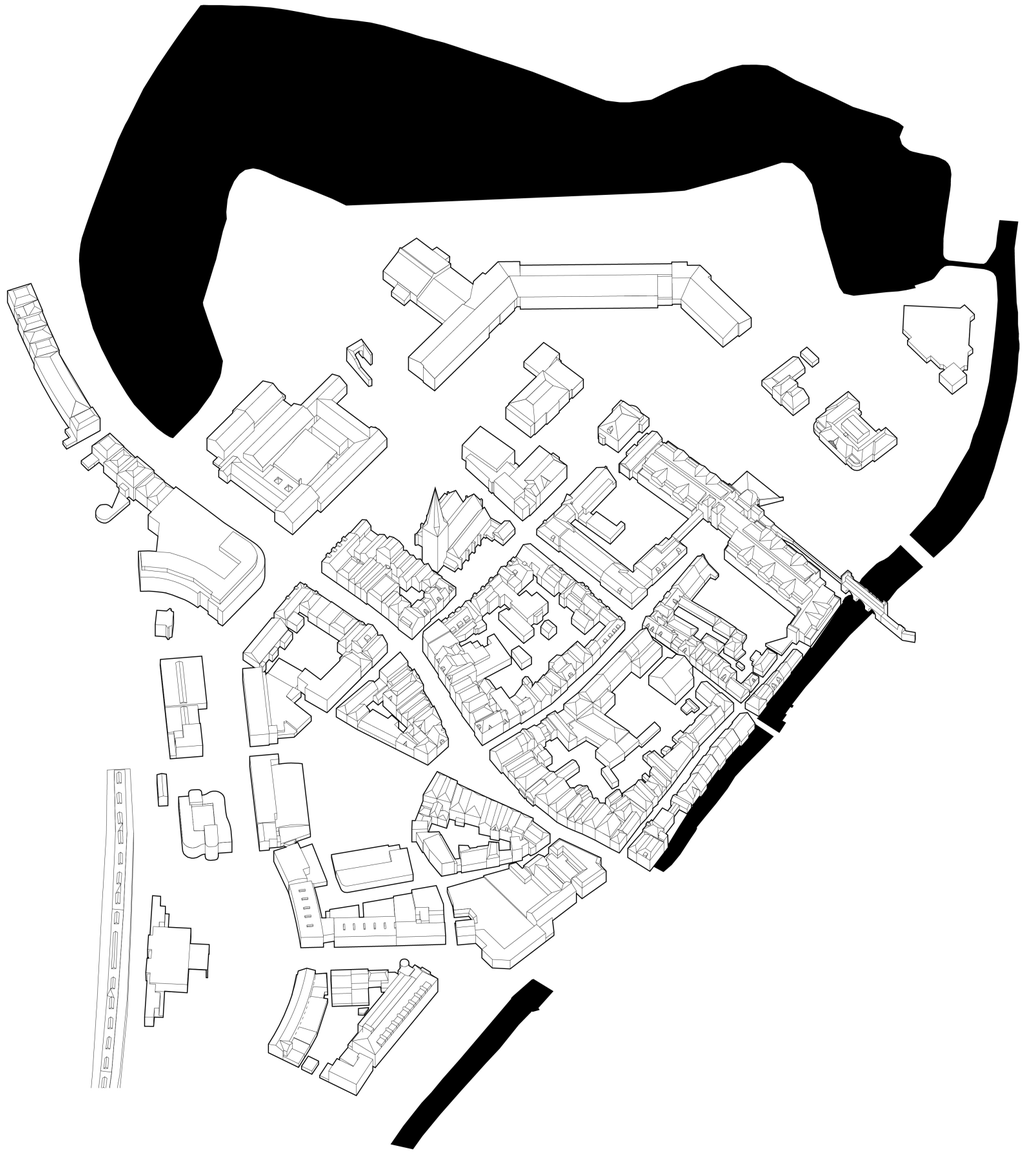
Make the former gateway of the city again a visible entrance and gathering point.

Make the vogelpark and surrounding historic objects visible.

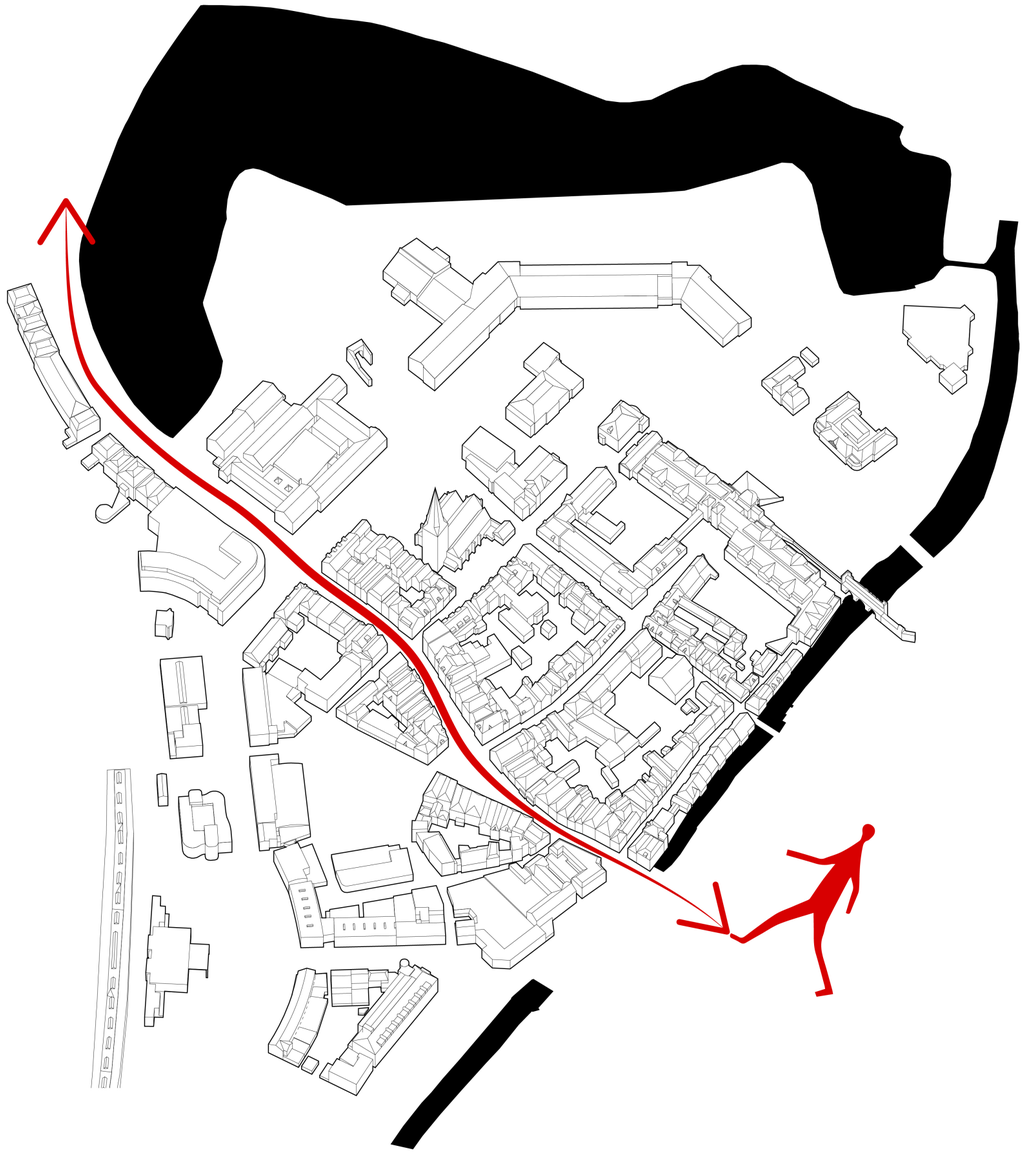


Improve the continuation of space of the pedestrian routes.

MASTERPLAN
CURRENT SITUATION



MASTERPLAN
NORTH SOUTH AXIS



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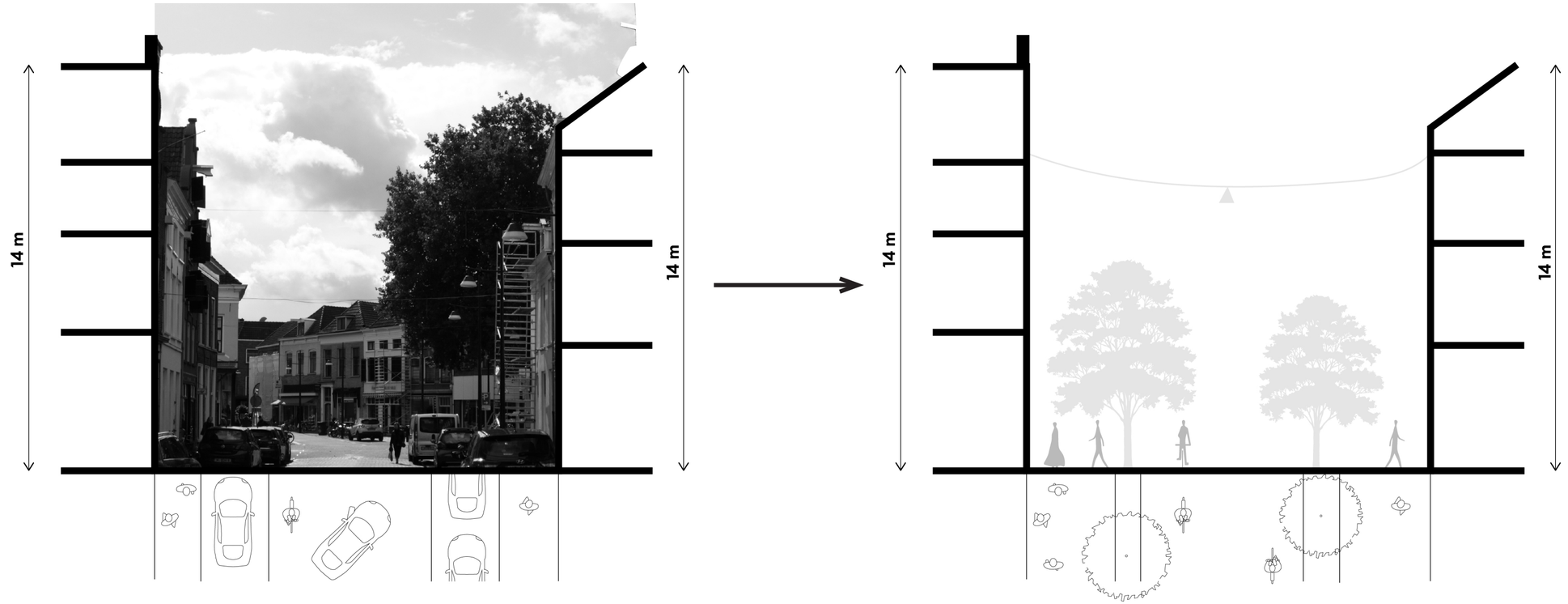
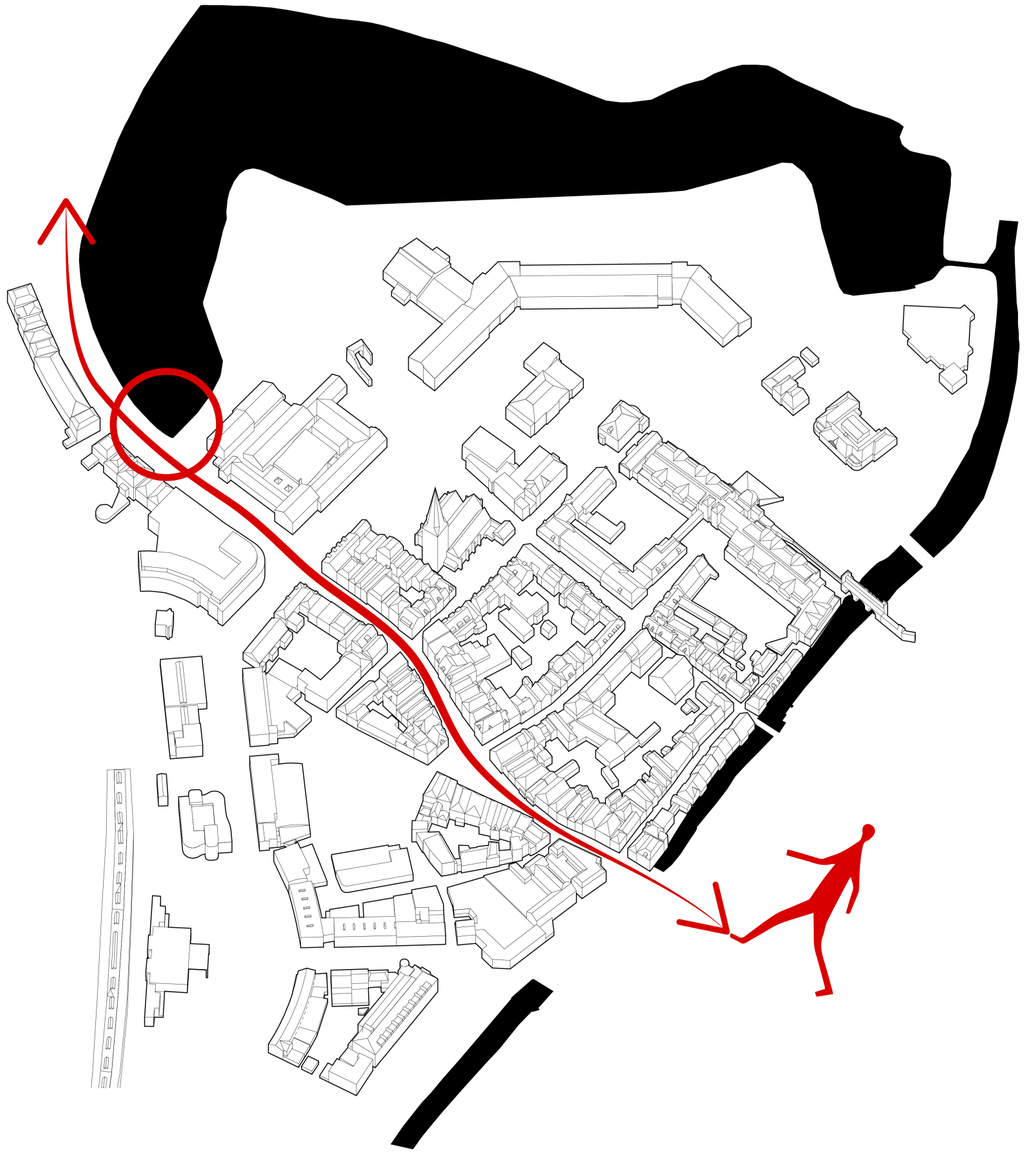
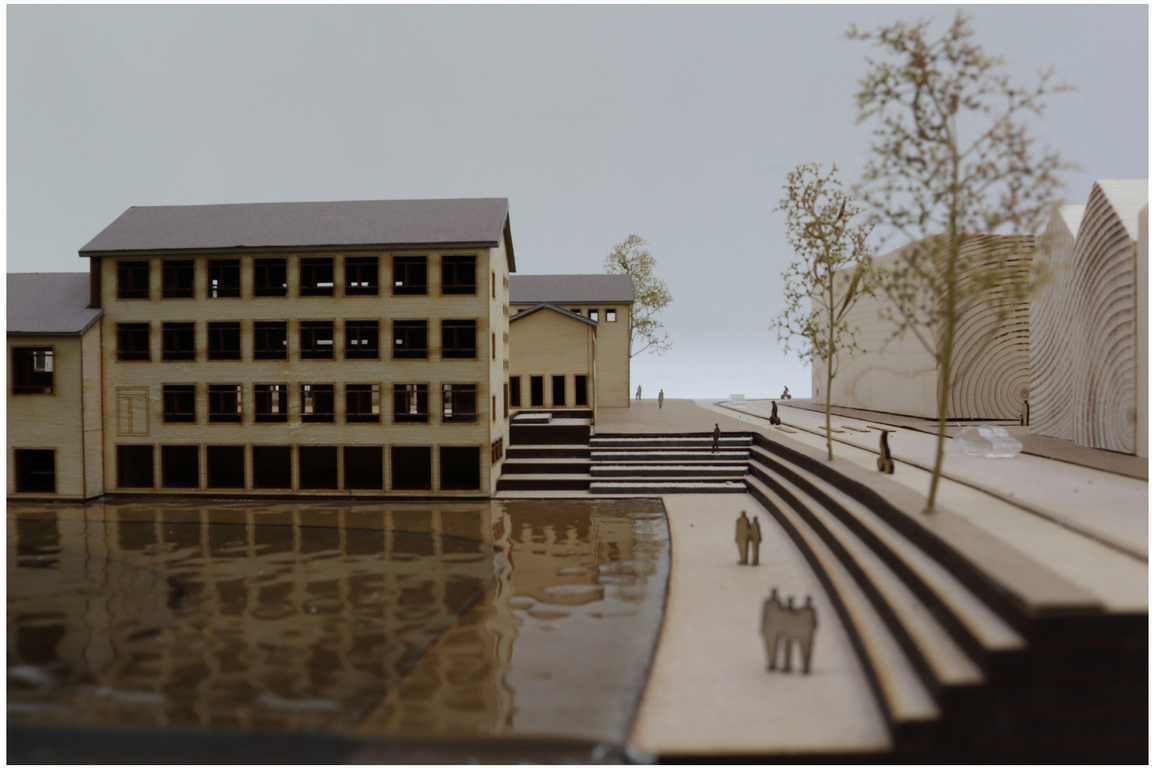


MASTERPLAN
NORTH SOUTH AXIS



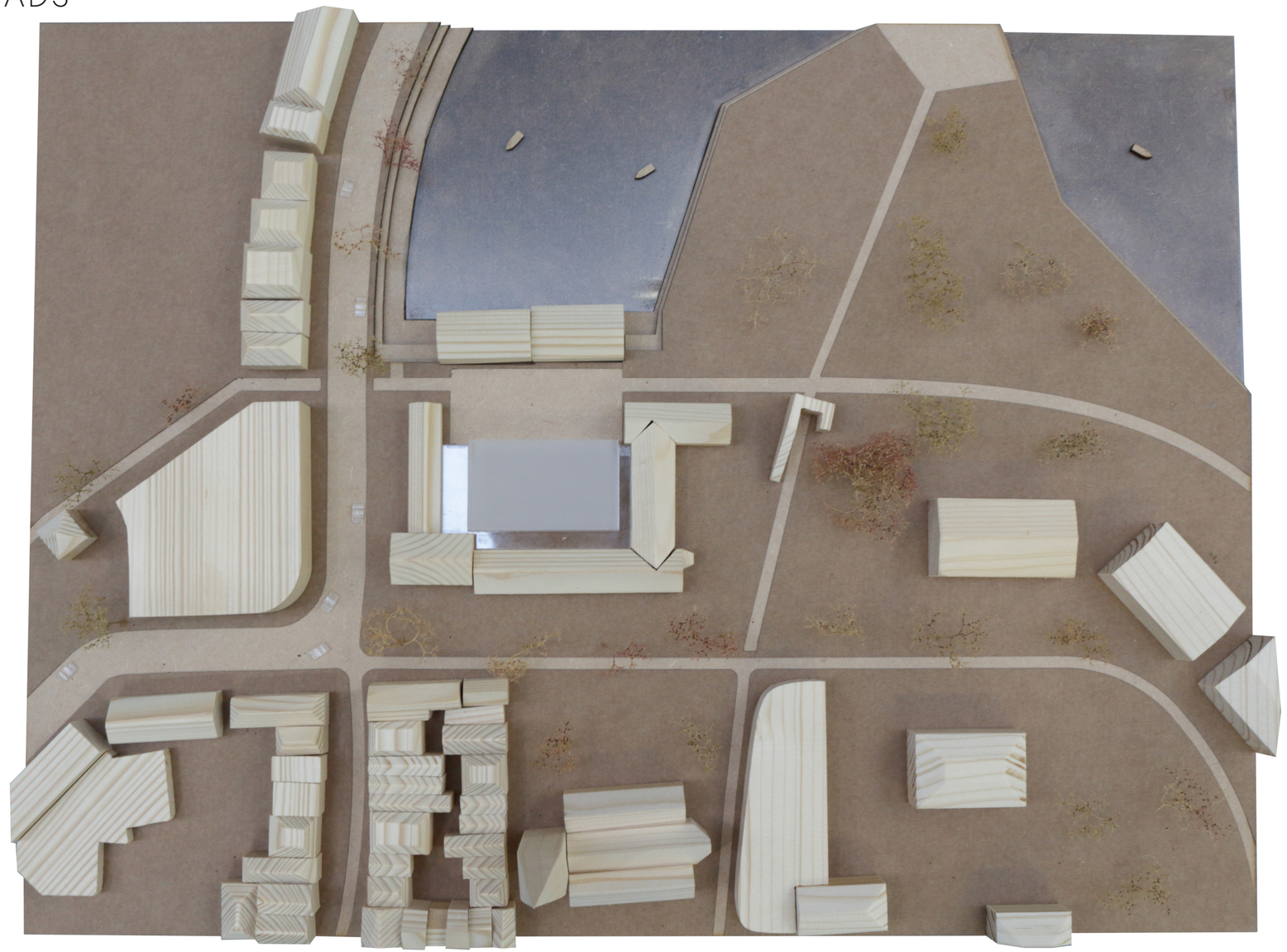
MASTERPLAN
NORTH SOUTH AXIS



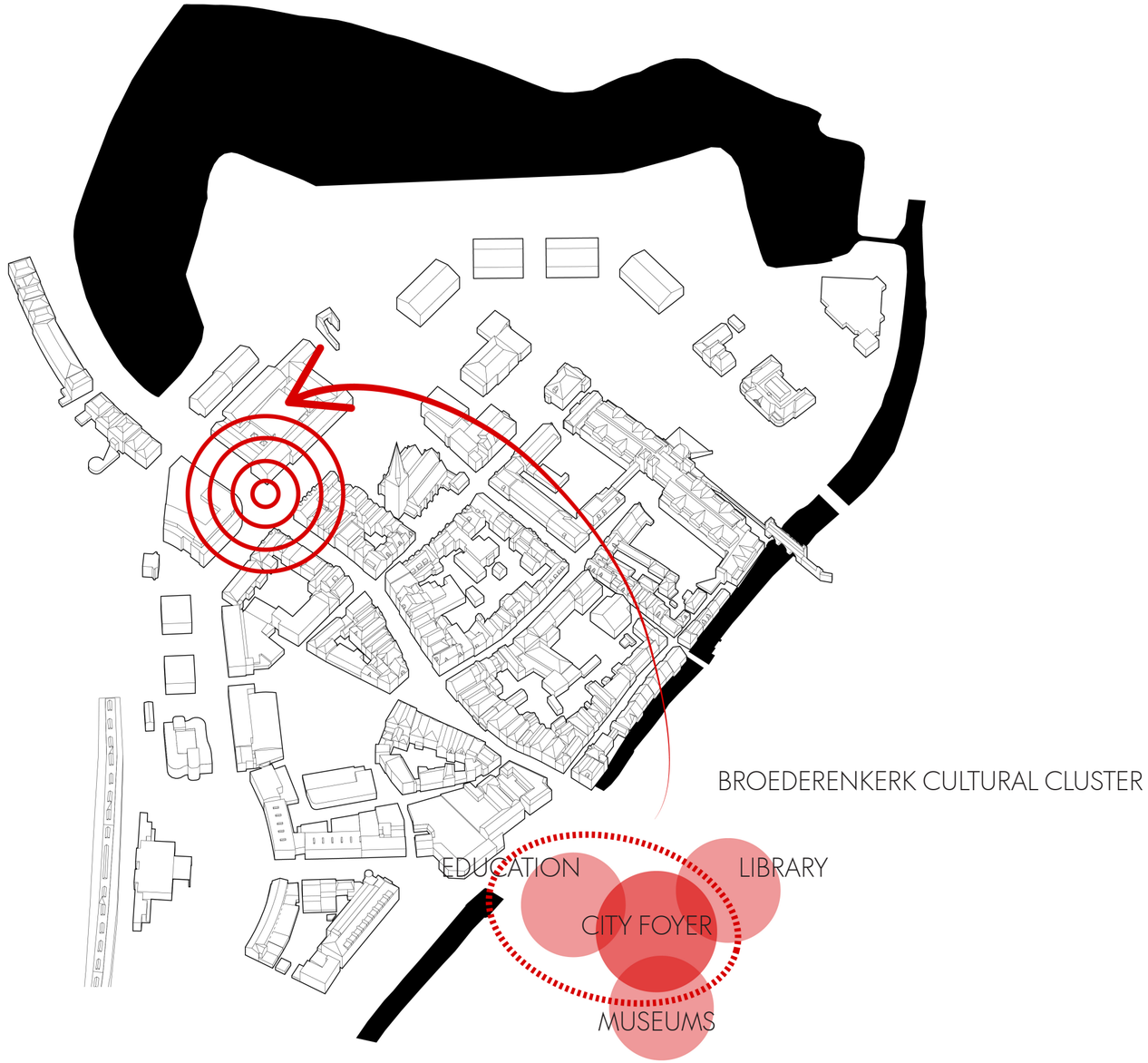
MASTERPLAN
EAST WEST AXIS

MASTERPLAN
EAST WEST AXIS

MASTERPLAN
BAUDARTIUS CROSS ROADS



MASTERPLAN
PLACE MAKING



MASTERPLAN

BAUDARTIUS CENTRE FOR VISUAL ARTS

CULTURAL CENTRE PERFORMANCE ARTS

CULTURAL CITY CENTRE

PROGRAM
TARGET GROUPS

BAUDARTIUS CENTRE FOR VISUAL ARTS

CULTURE

Artists

studio space

machine workshop

gallery

conference rooms

EDUCATION

Primary/secondary school students

fablab

workshop space

lecture hall

LEISURE

Visitors/tourists

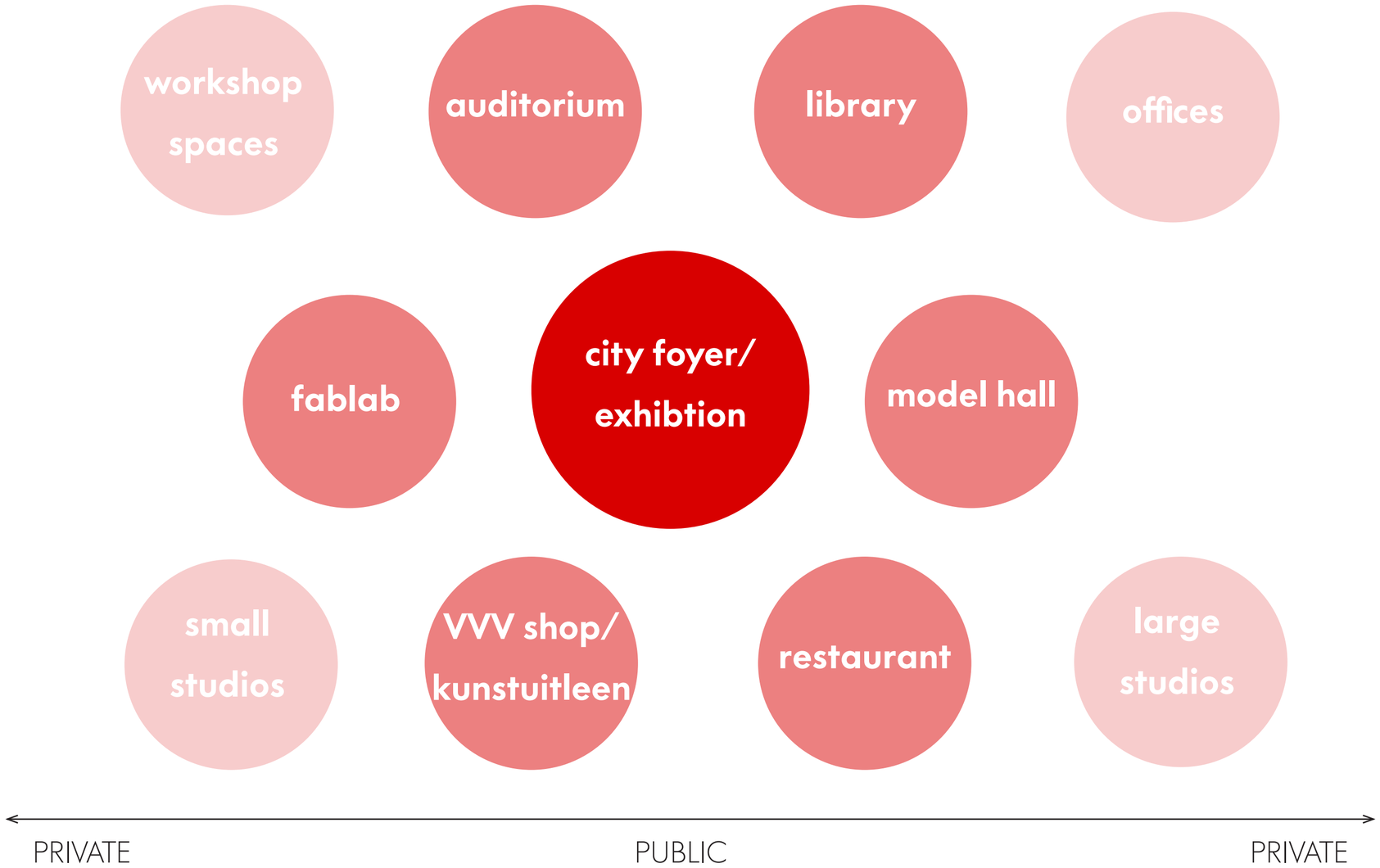
restaurant

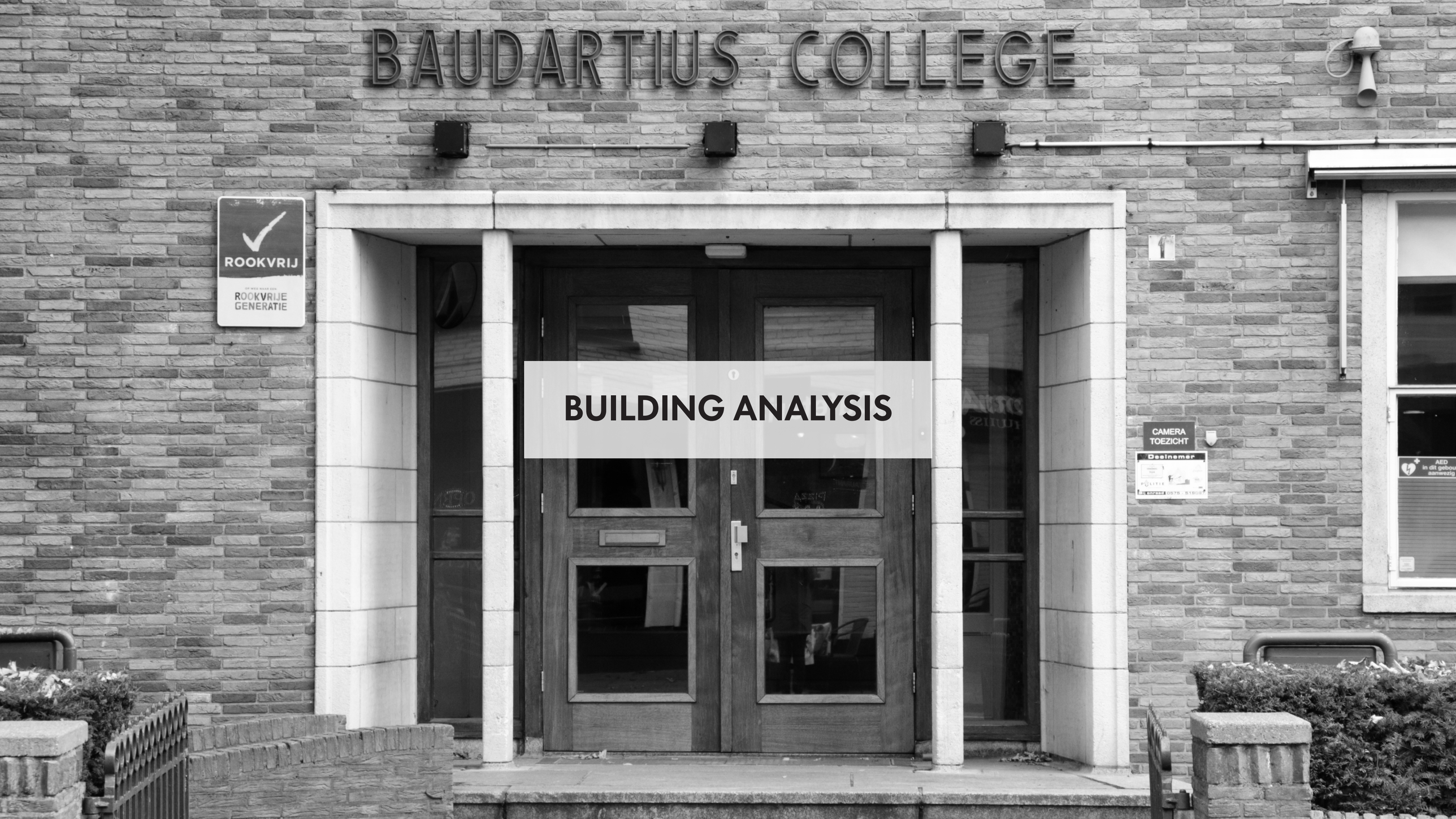
VVV

exhibition

art rental

PROGRAM
CULTURAL CENTRE

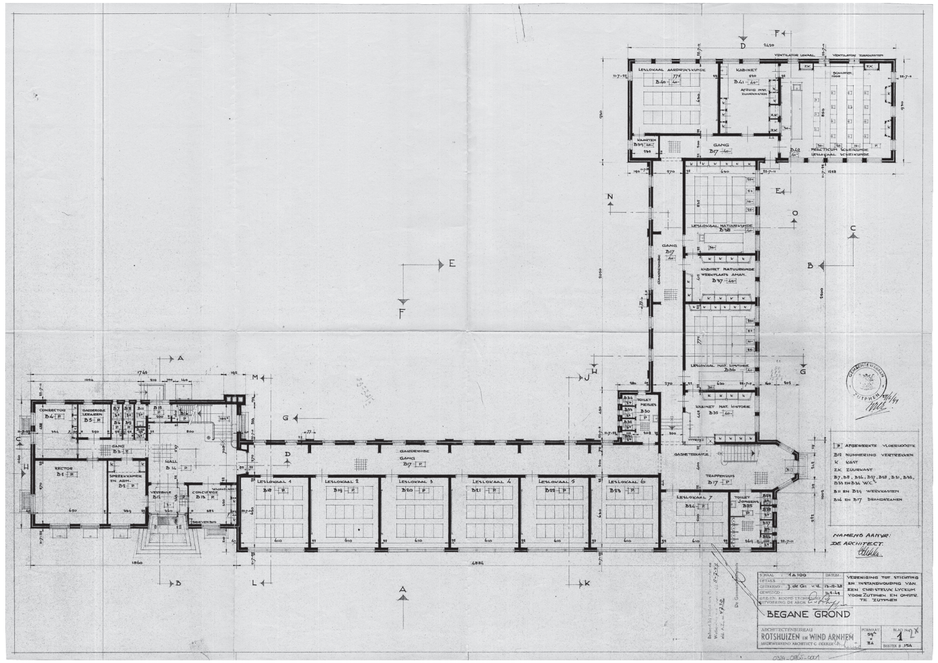




BUILDING ANALYSIS

BUILDING
CURRENT SITUATION

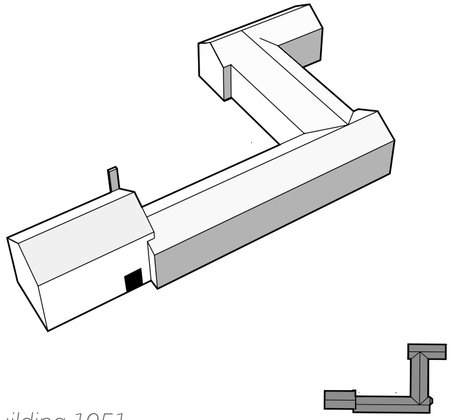
BUILDING
POST-WAR / DELFTSE SCHOOL



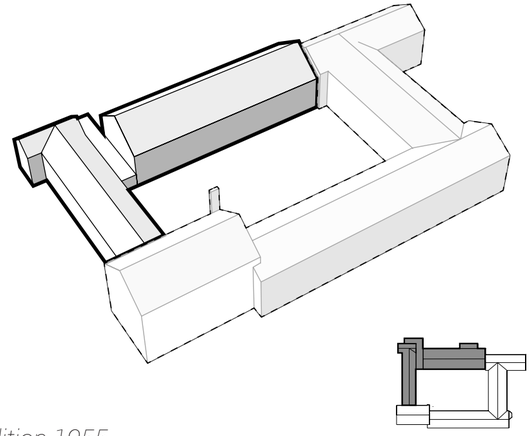
source: http://www.regionaalarchiefzutphen.nl/beeld/detail?q=baudartius&page=1&as-set=1771bb14-e46e-8013-f267-d12a99754bcd

BUILDING
DETAILING

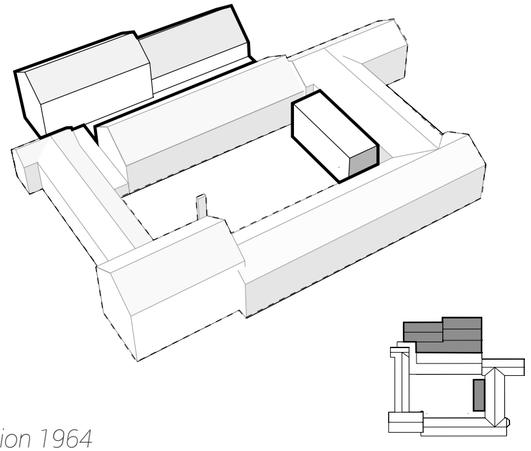
BUILDING
DEVELOPMENT



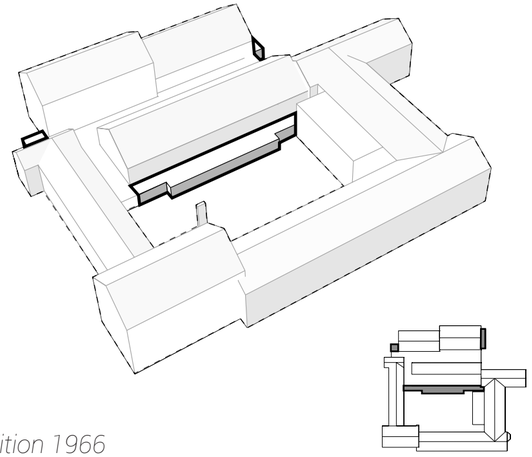
School building 1951



Addition 1955



Addition 1964



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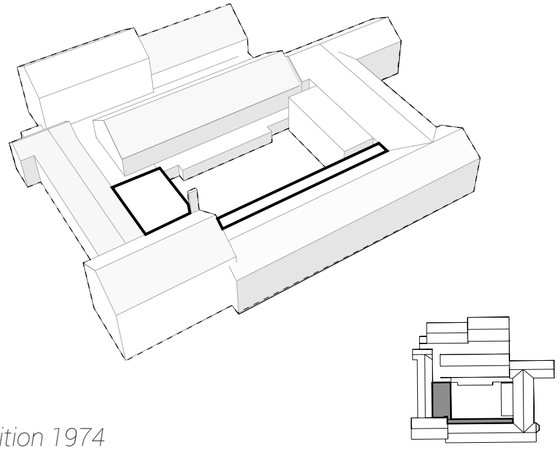
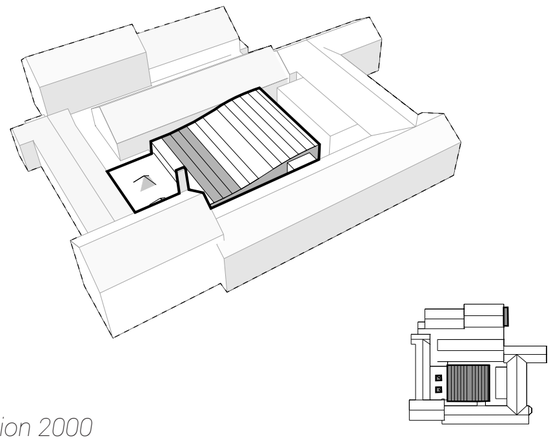


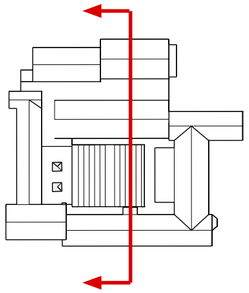
Addition 1974

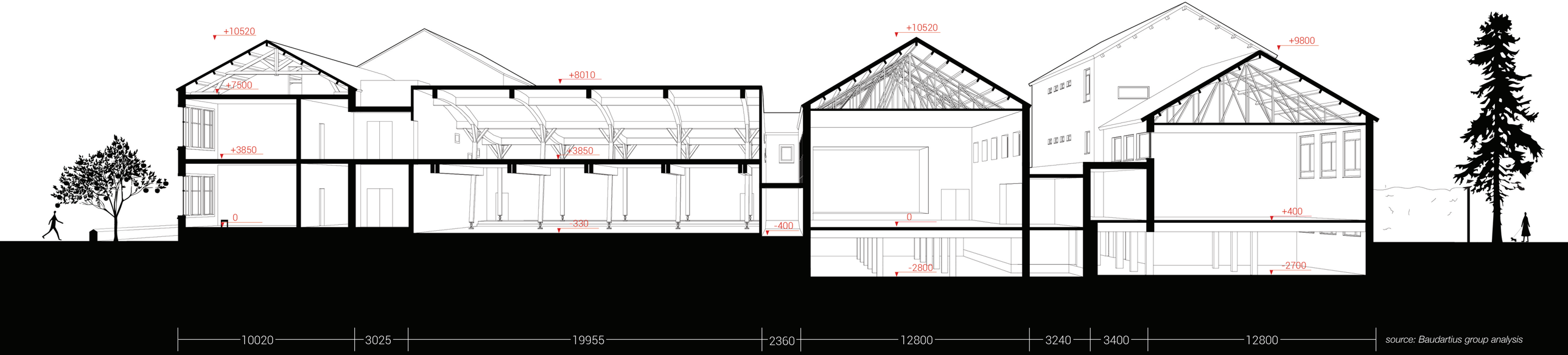


Addition 2000

source: Baudartius group analysis

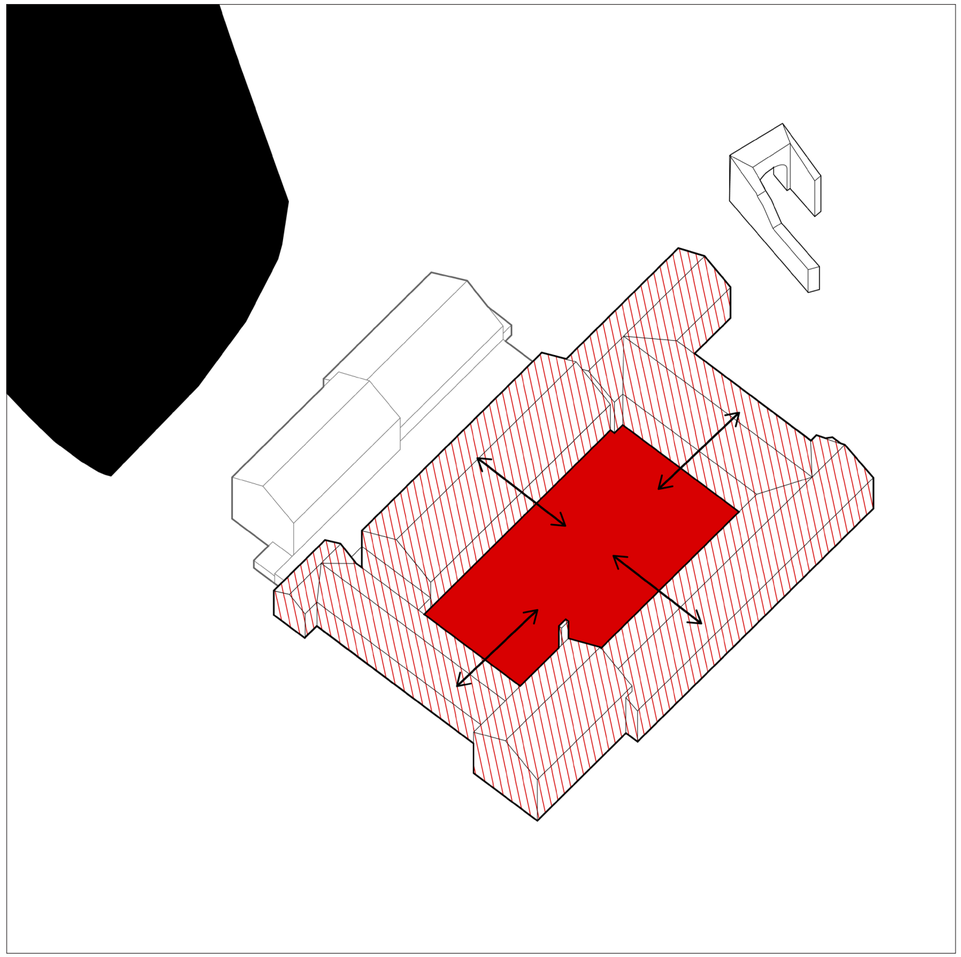
BUILDING
CURRENT SITUATION



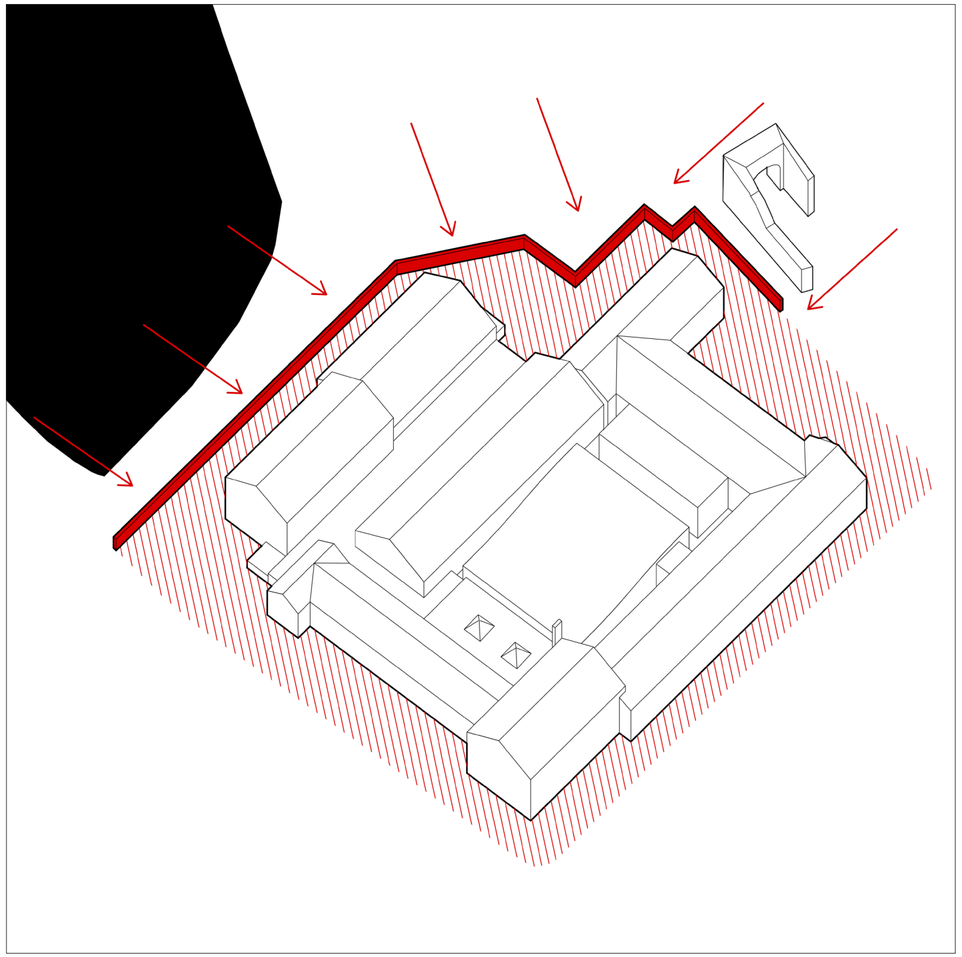


source: Baudartius group analysis

BUILDING | CONCLUSIONS

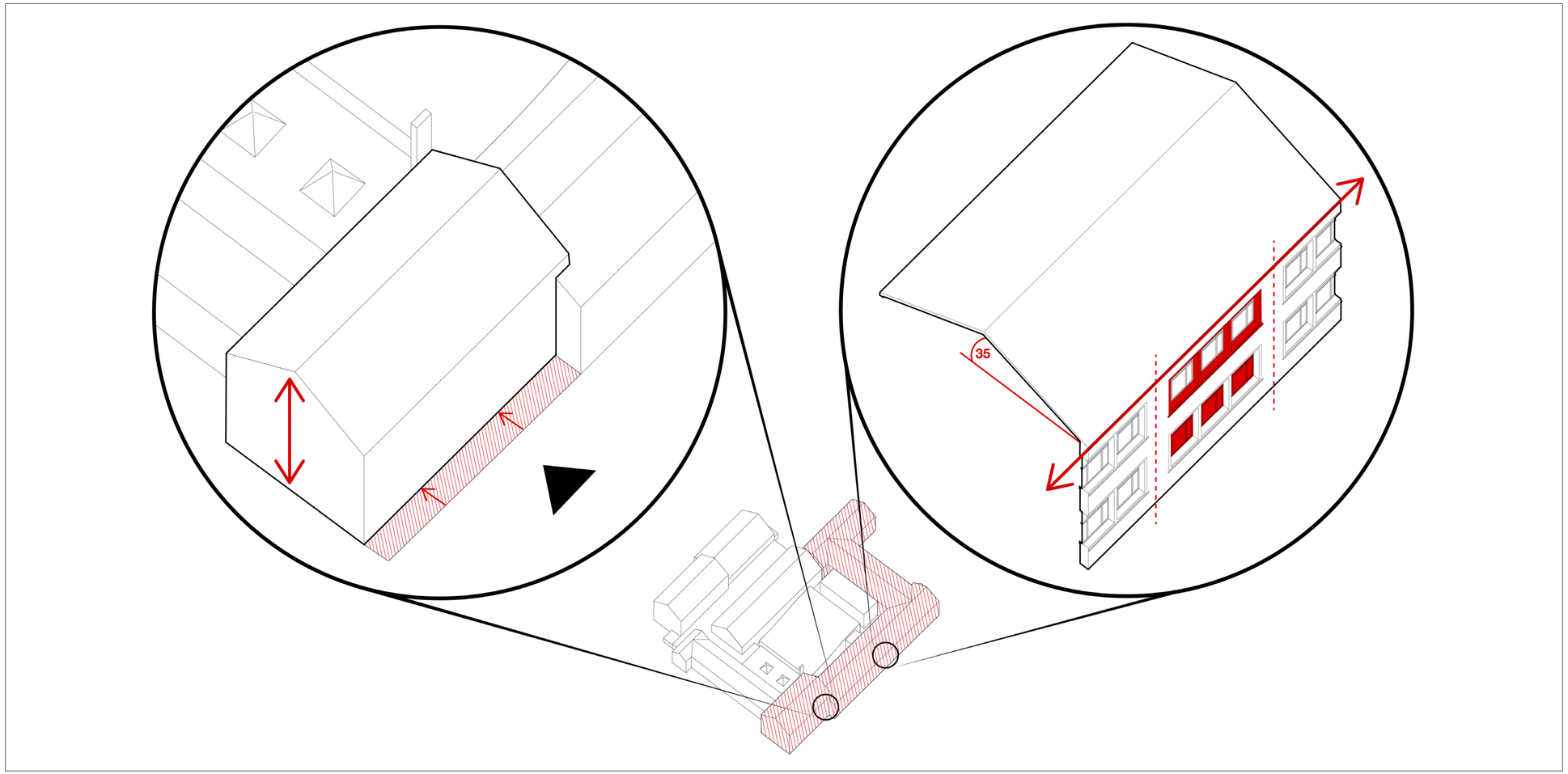


COURTYARD AS THE GATHERING PLACE HAS DISAPPEARED



ENCLAVE IN THE PARK

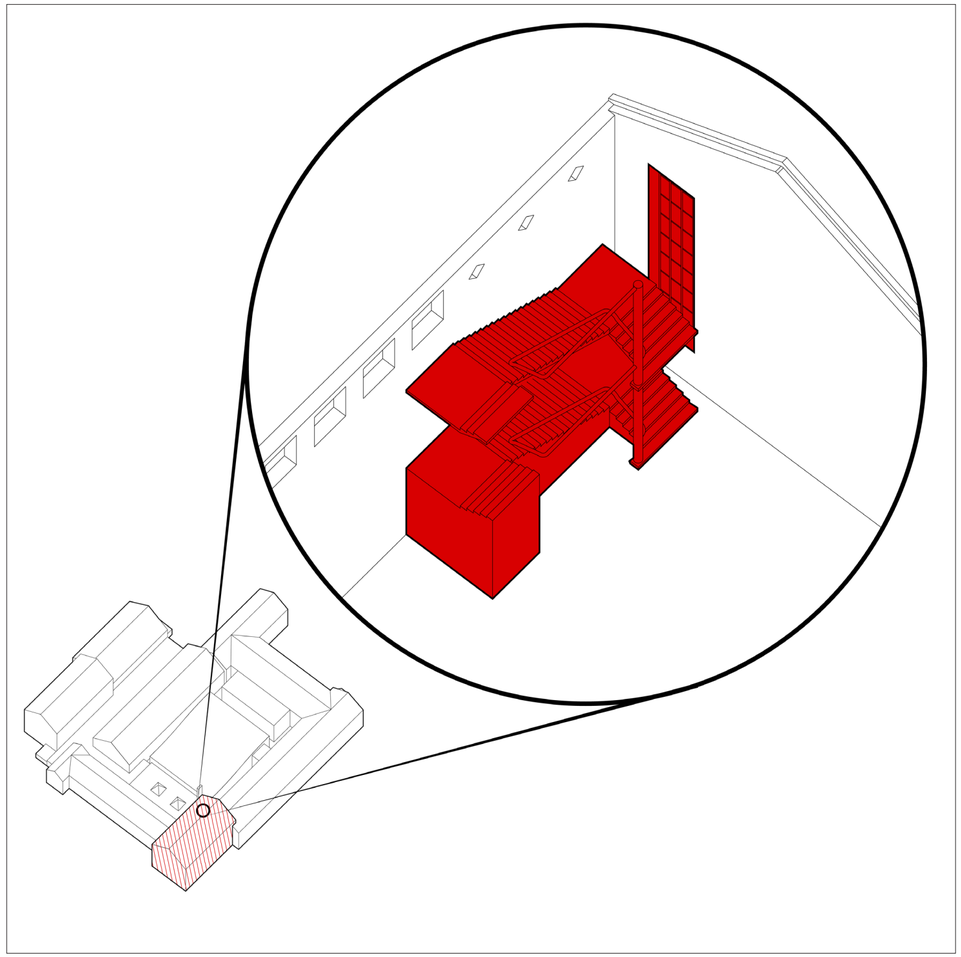
BUILDING
CONCLUSIONS



REFINEMENT IN DETAILING OF FACADE AND ARTICULATION OF VOLUMES

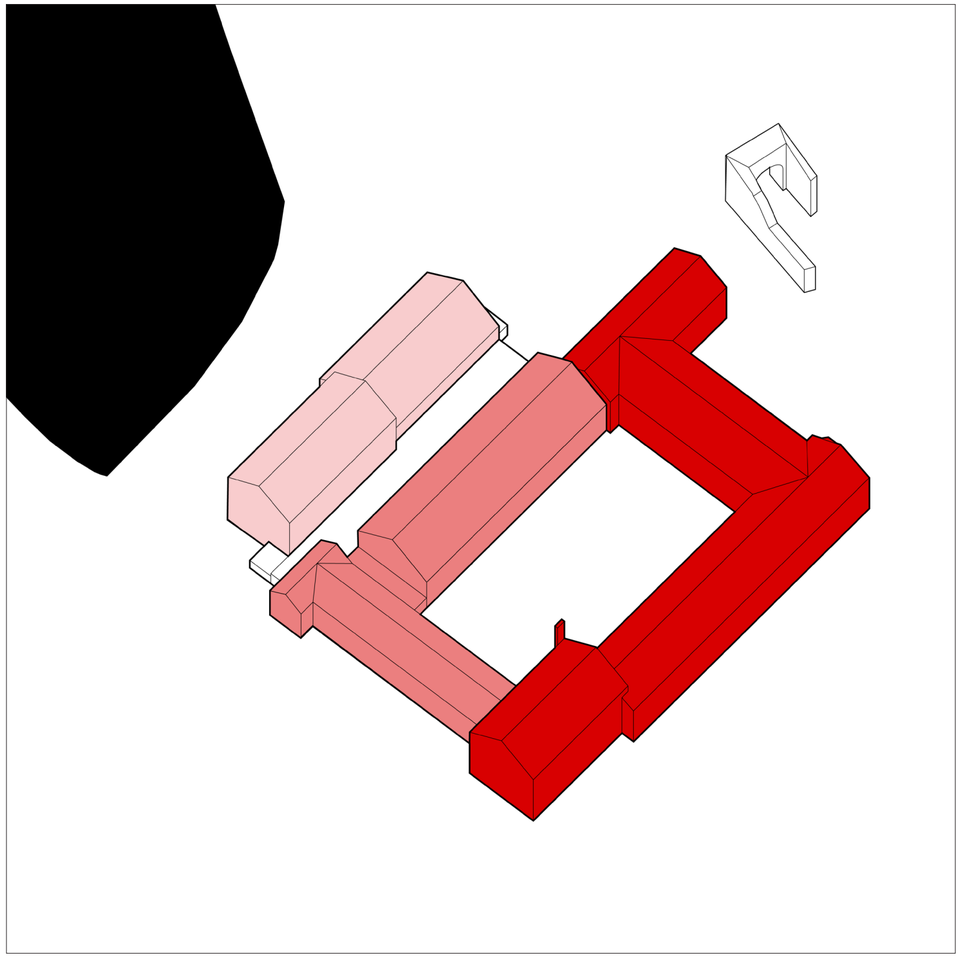
aesthetic & historical value

BUILDING
CONCLUSIONS



REFINEMENT IN DETAILING OF STAIRCASE & WINDOW

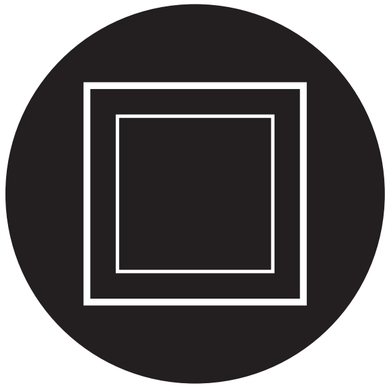
aesthetic & commemorative value



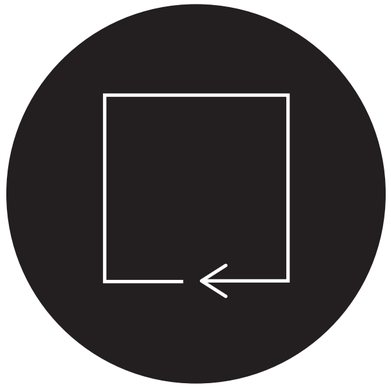
ENSEMBLE OF THE SAME ARCHITECTURE FIRM

artistic & historical value

BUILDING
AMBITIONS

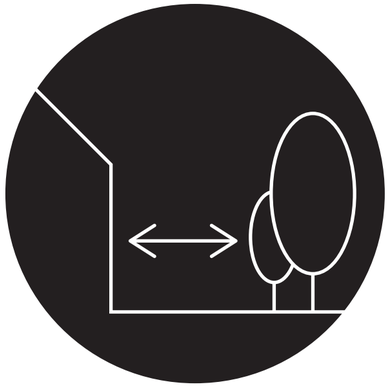


Preserve the high aesthetical qualities of the outer facade.

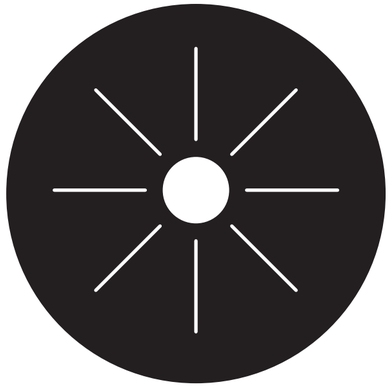


Re-establish clarity in the spatial organisation.

Reintroduce the courtyard as the central space.



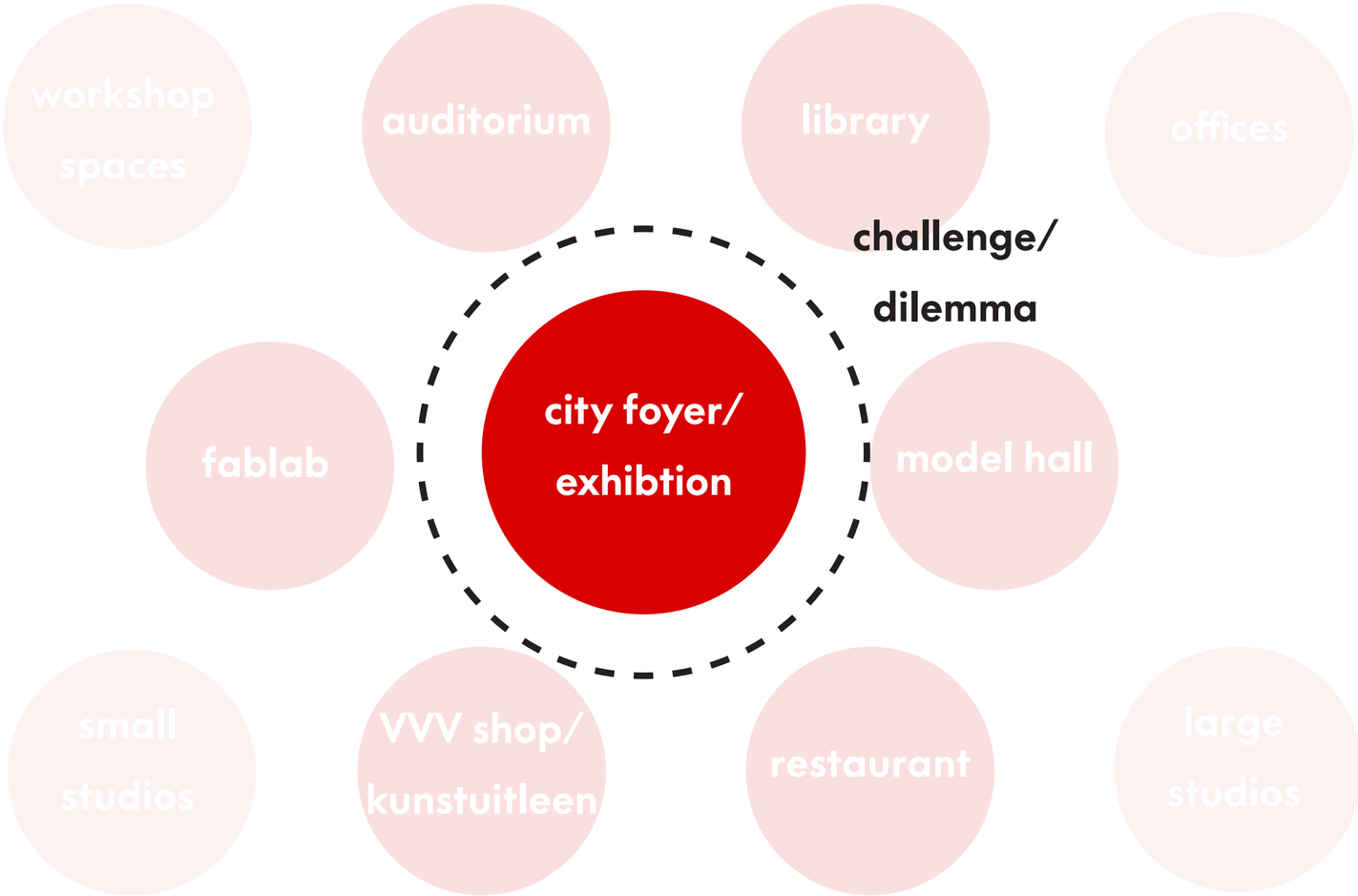
Connect the complex with the park and the water.



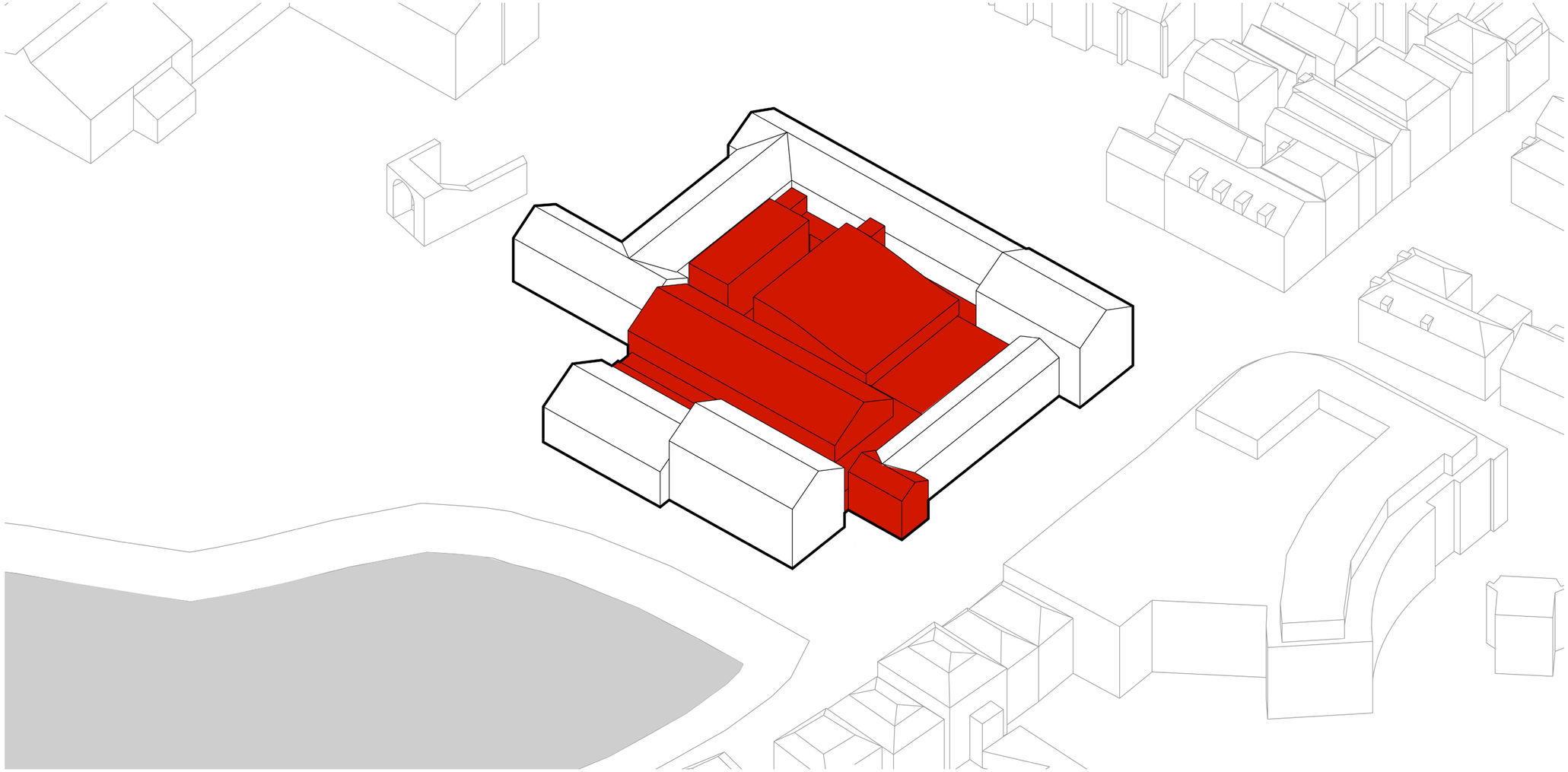
Restore ingress of natural light.

BUILDING DESIGN

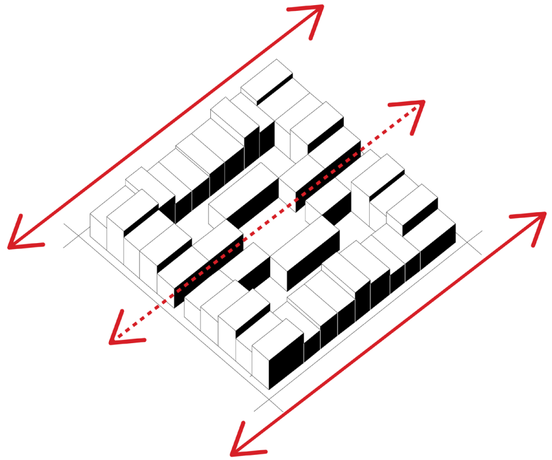
DESIGN
DILEMMA



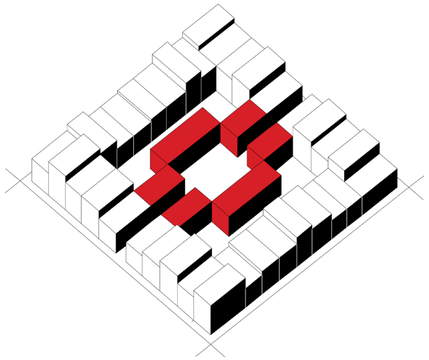
DESIGN
THE ASSIGNMENT/DILEMMA



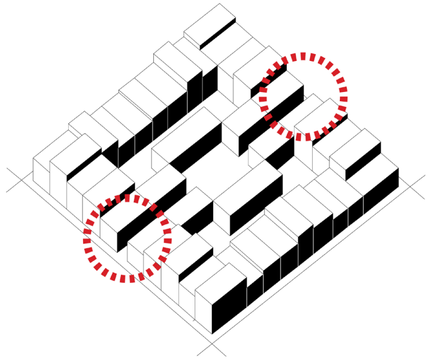
DESIGN
COURTYARD TYPOLOGY



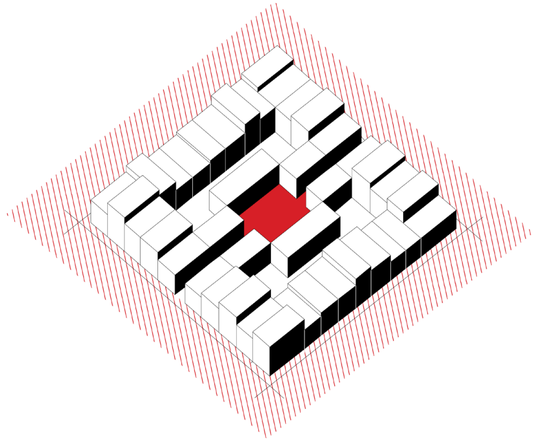
SECOND LAYER IN URBAN TISSUE



ACCES THROUGH THE CORE OF THE BLOCK

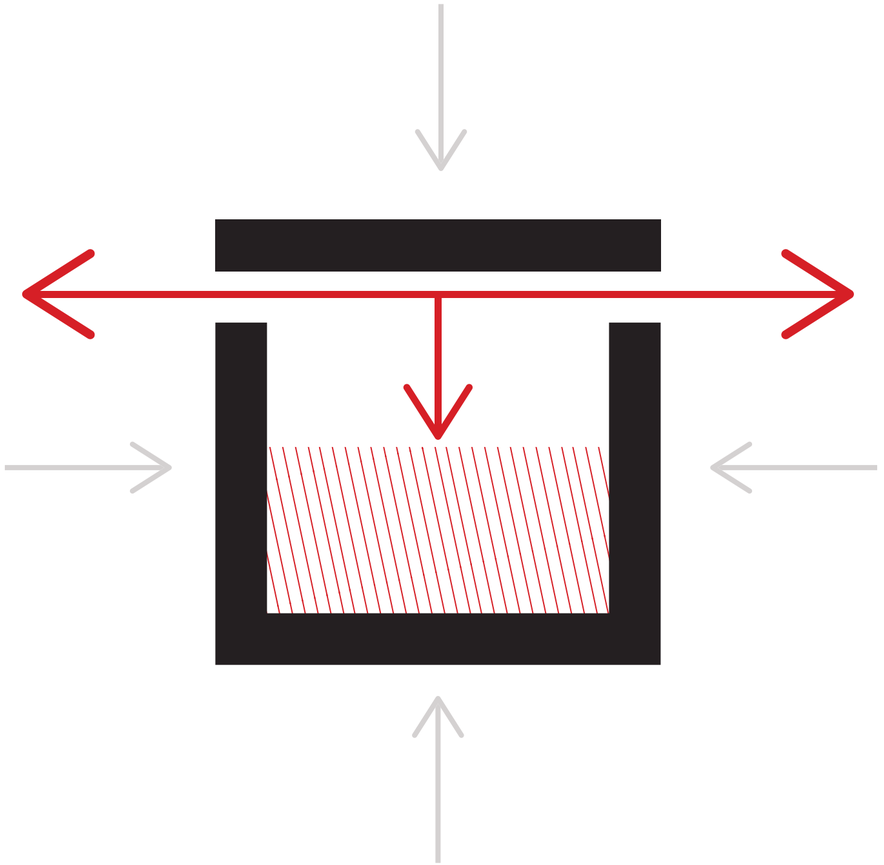


THRESHOLD TO INNER WORLD

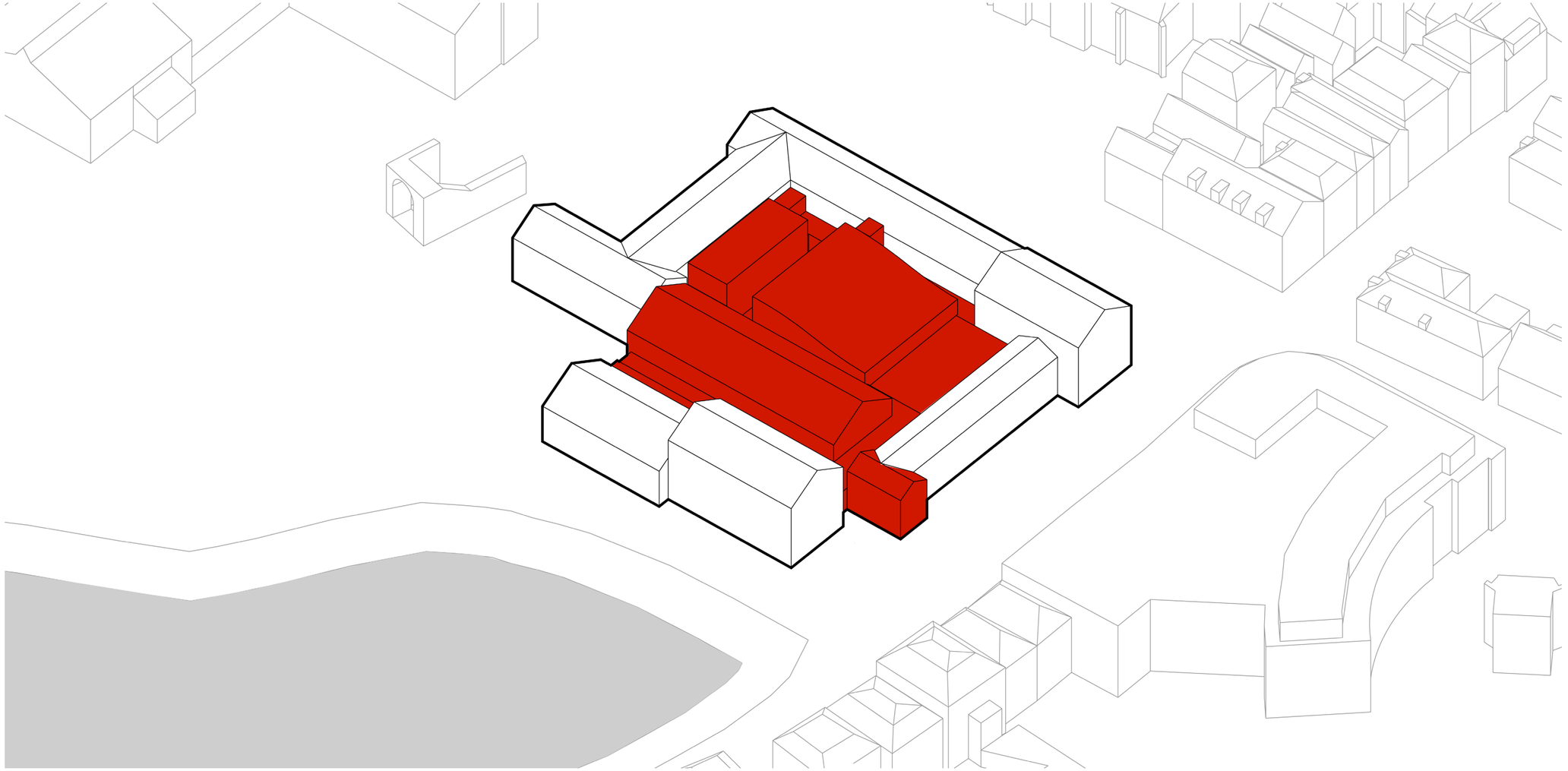


CONTRAST IN & OUTSIDE

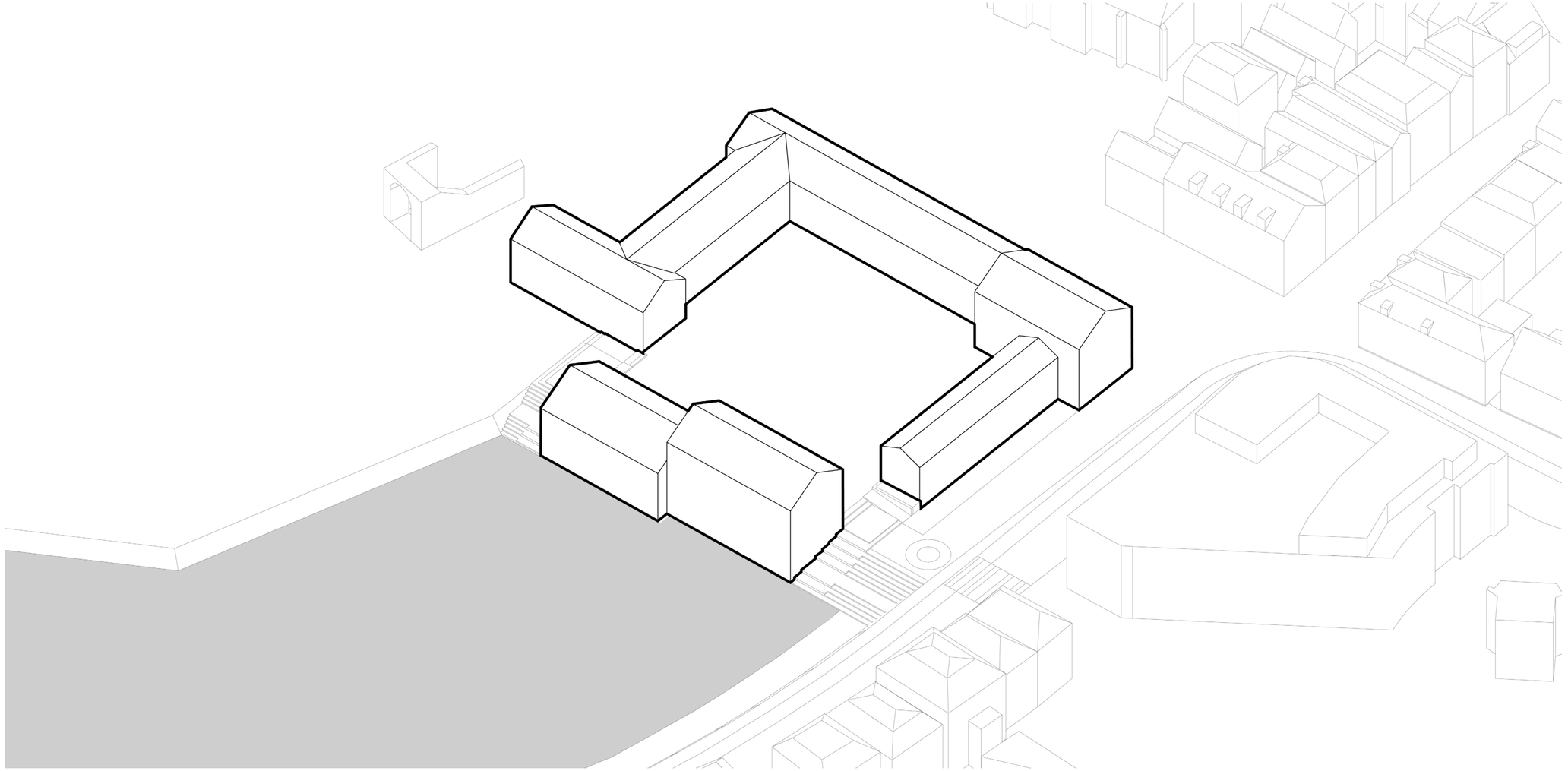
DESIGN
CONCEPT



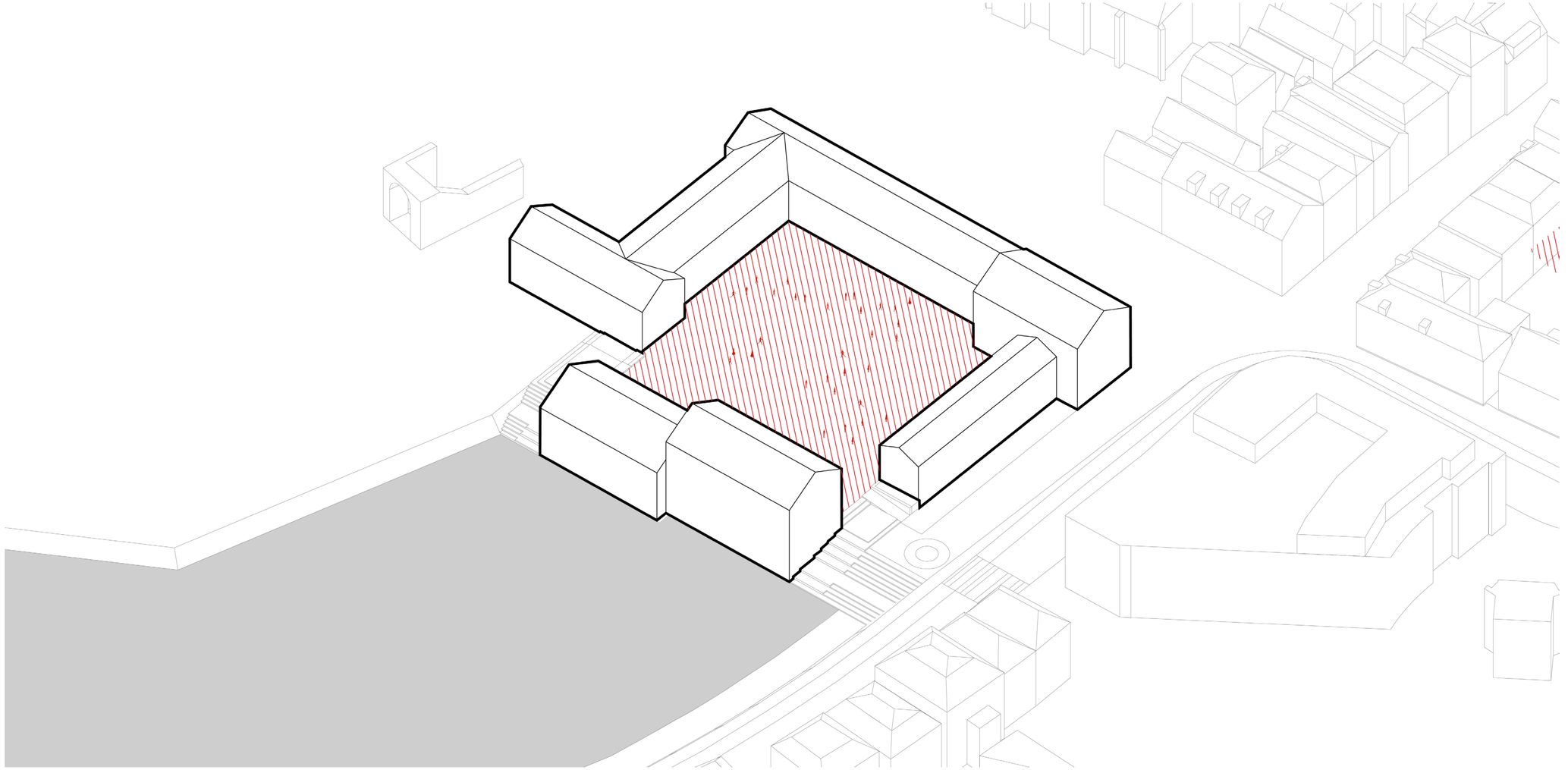
DESIGN
DEMOLITION



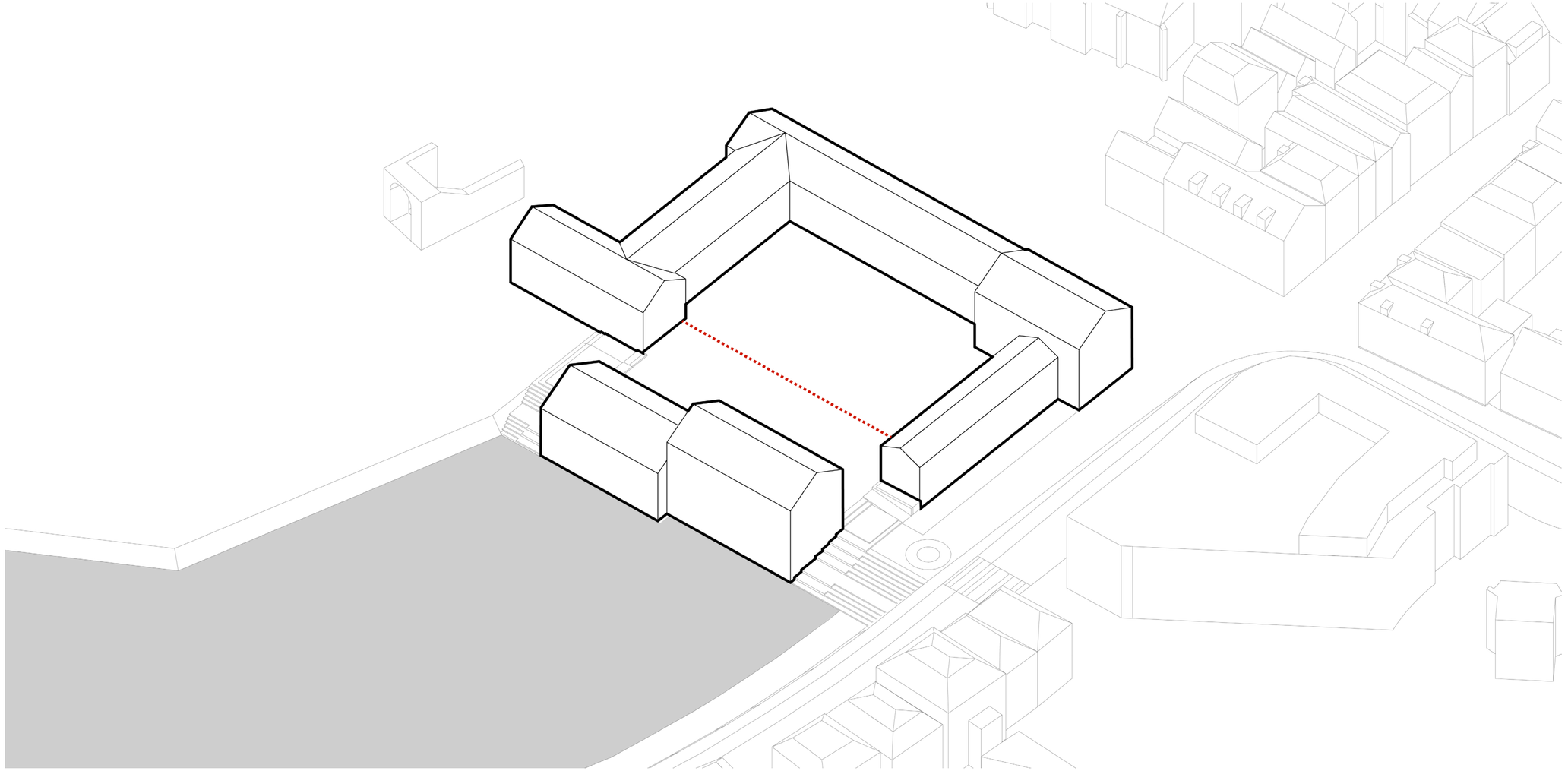
DESIGN
A STRONG OUTER RING



DESIGN
A PLACE TO GATHER

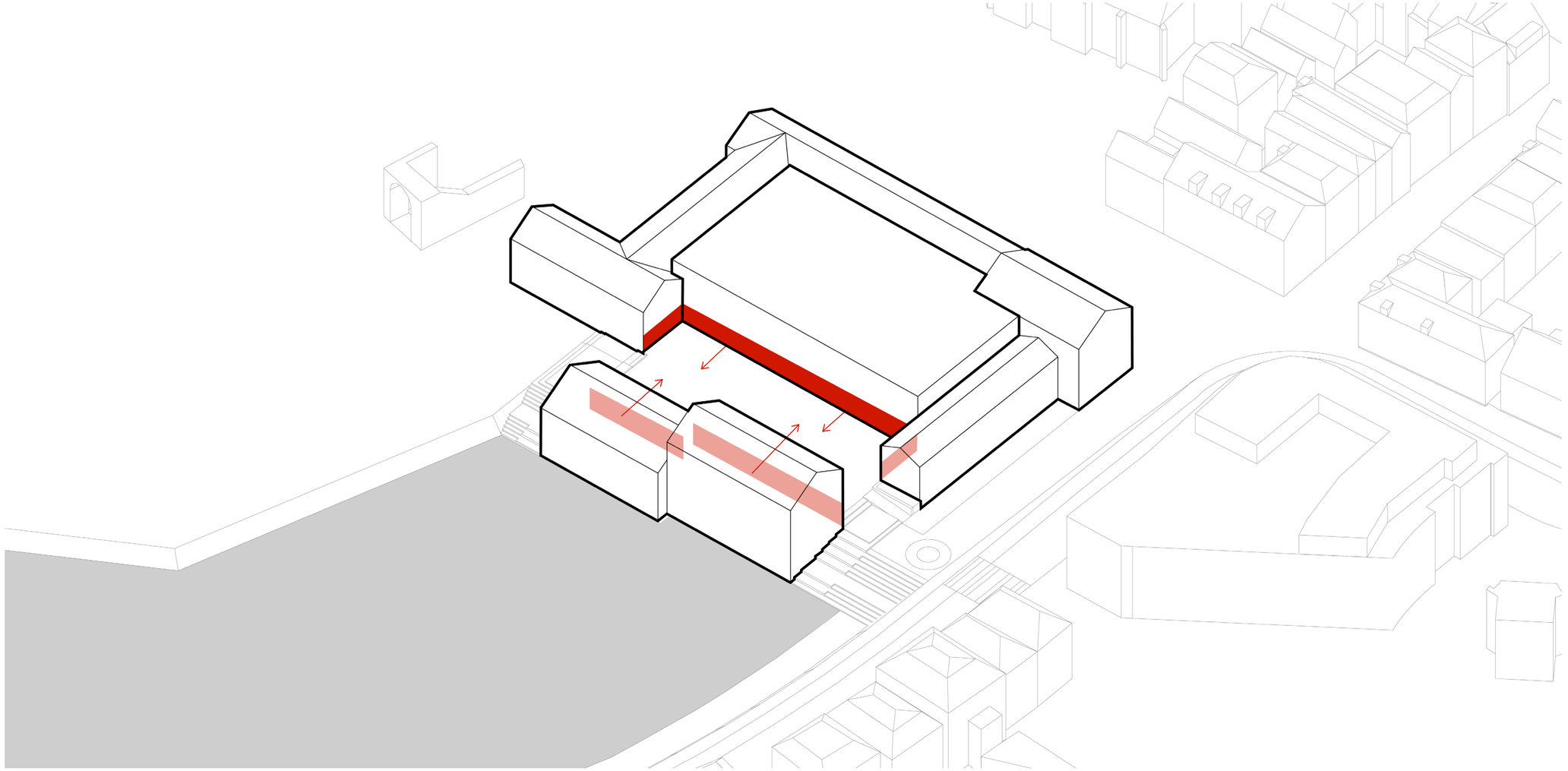


DESIGN
THE OLD COURTYARD AS A REFERENCE

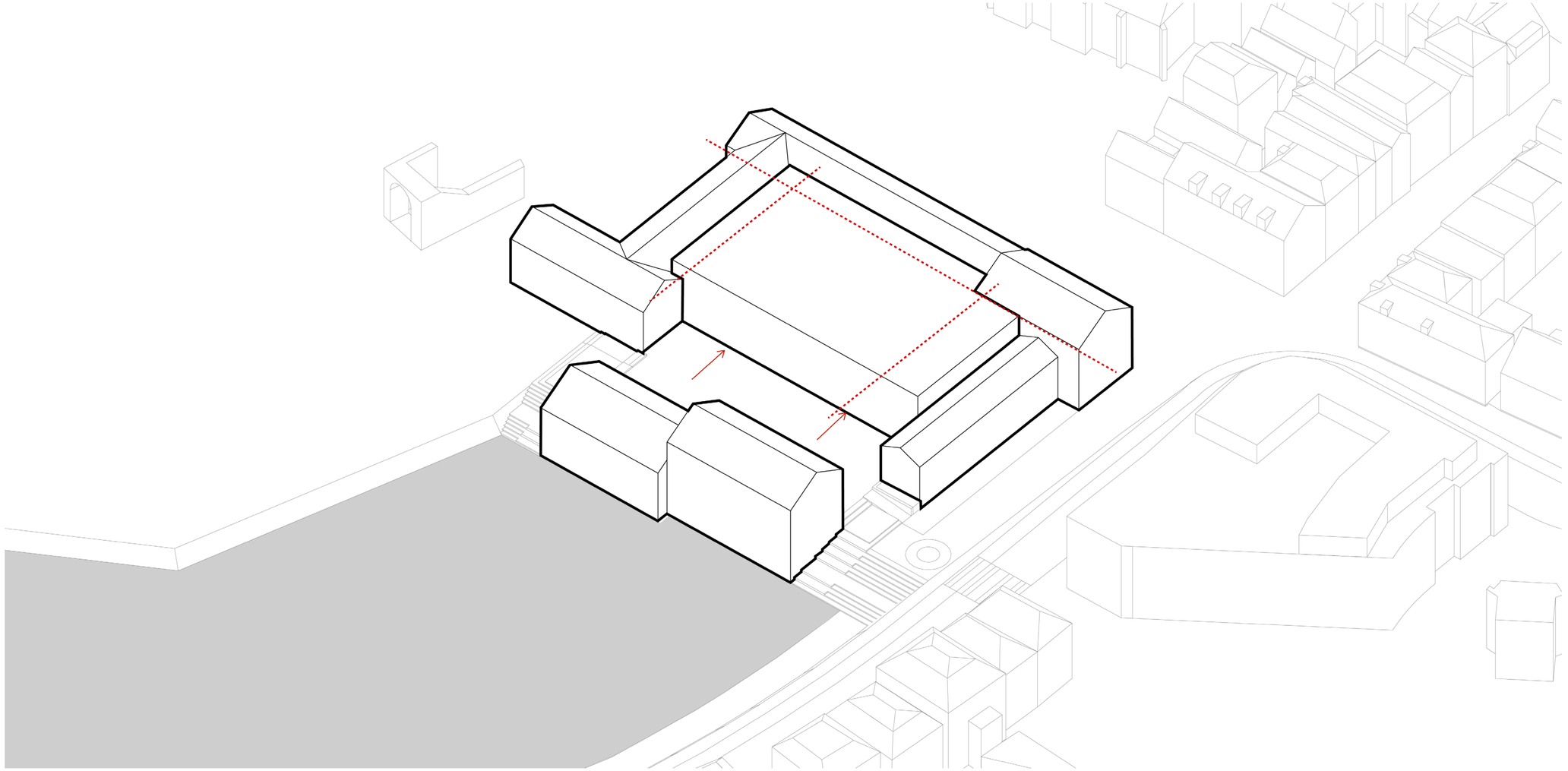


DESIGN

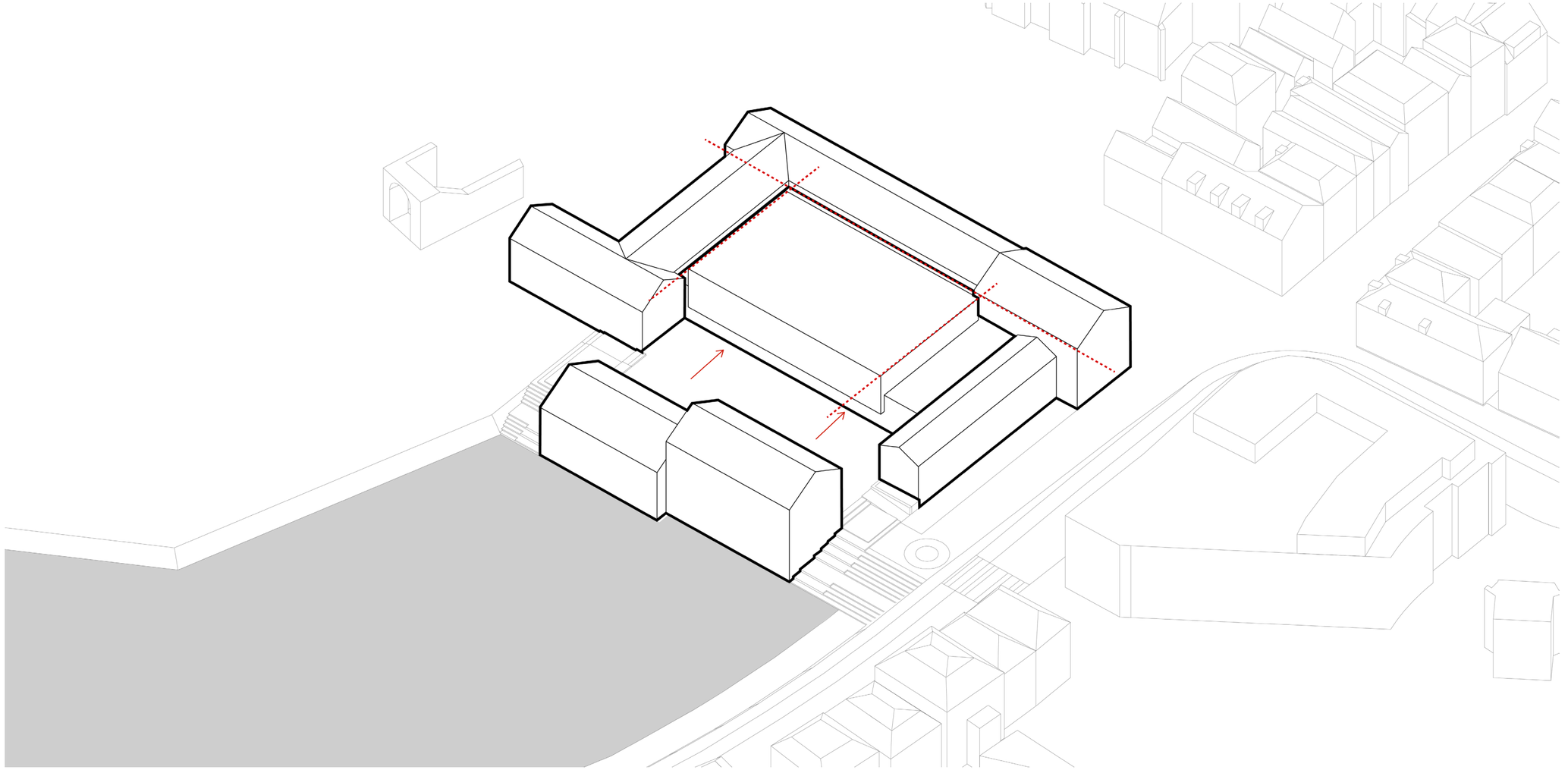
A NEW FRONT IN THE HEART OF THE BUILDING



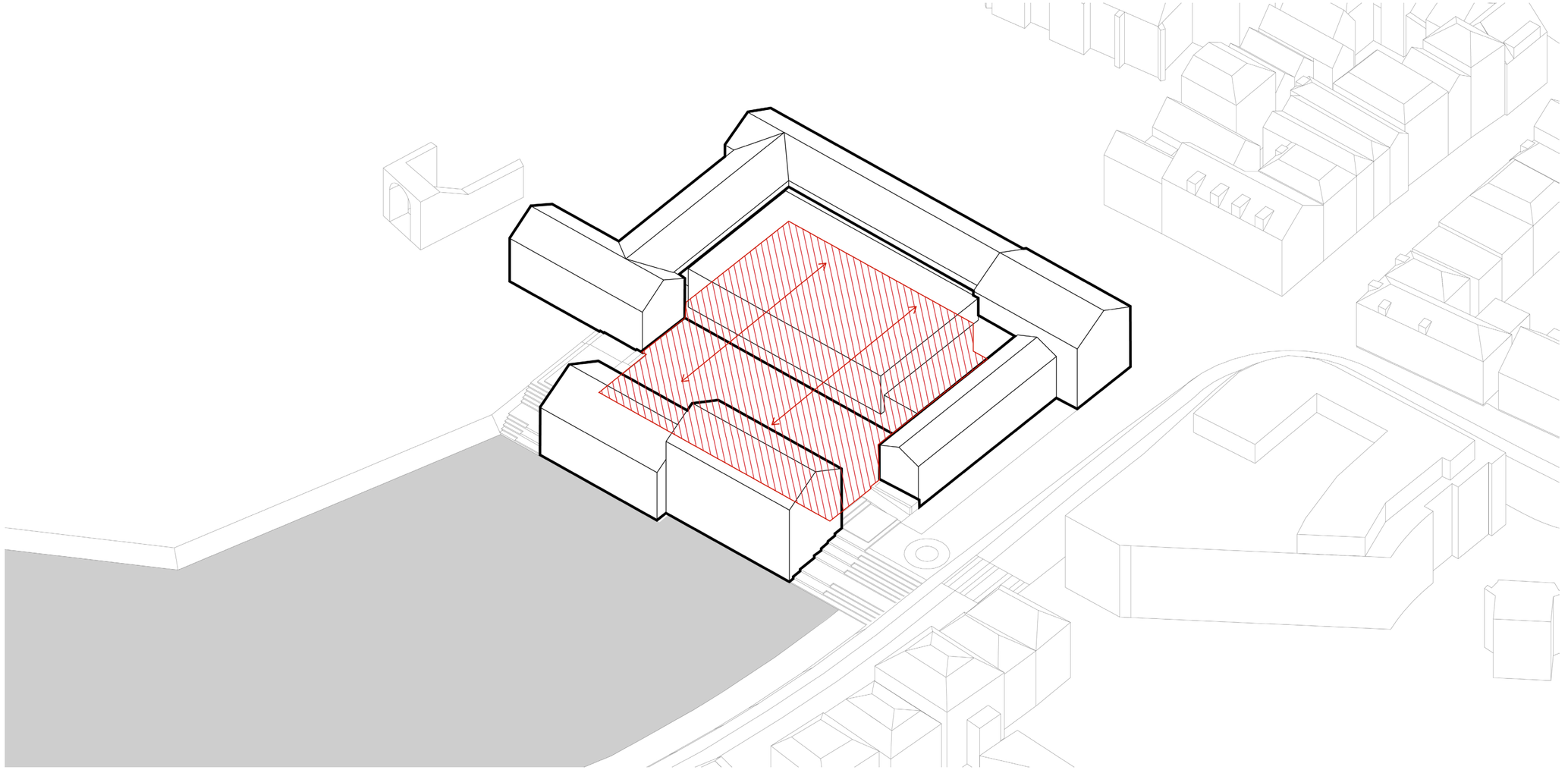
DESIGN
SHAPING THE NEW ALONG THE OLD



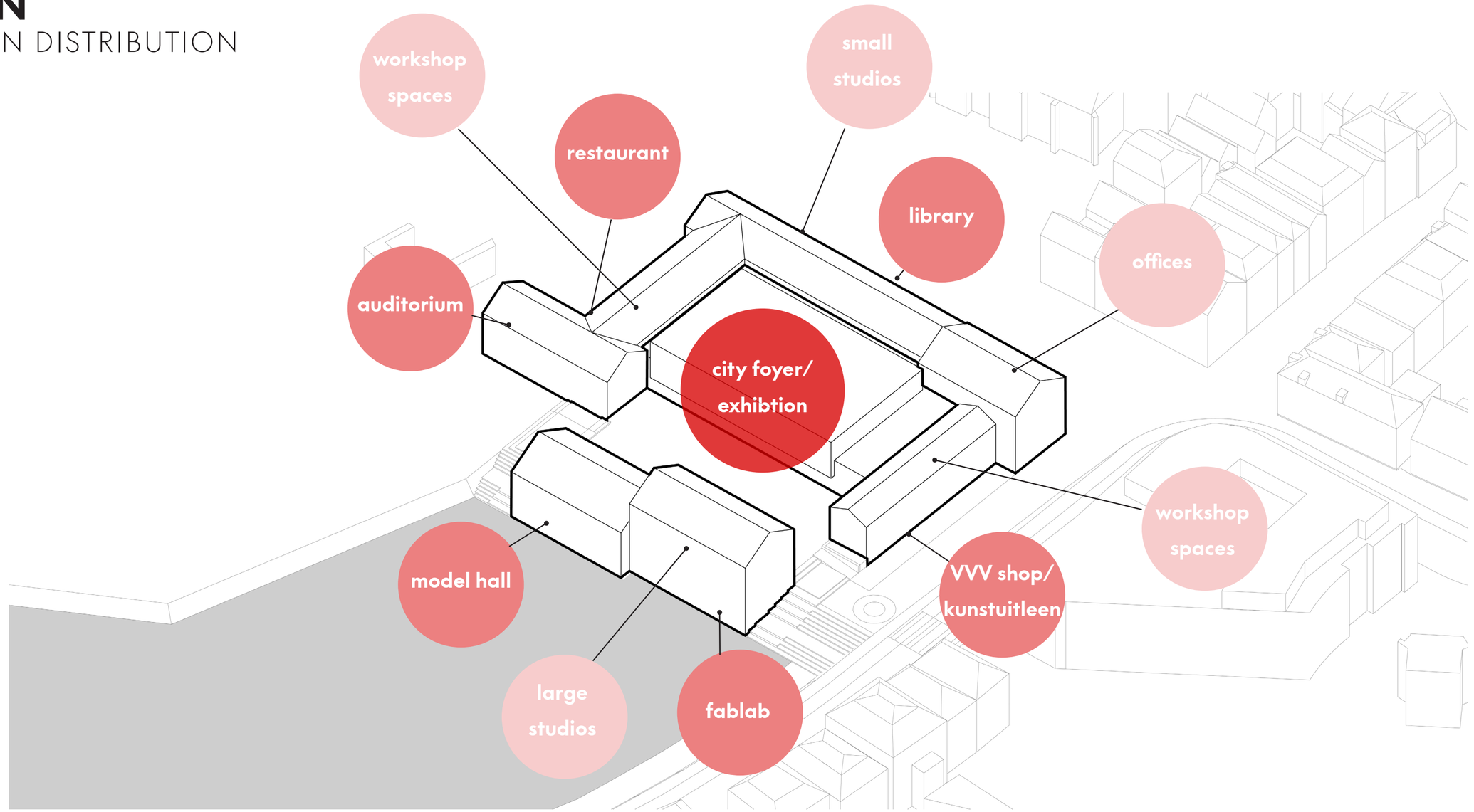
DESIGN
SHAPING THE NEW ALONG THE OLD



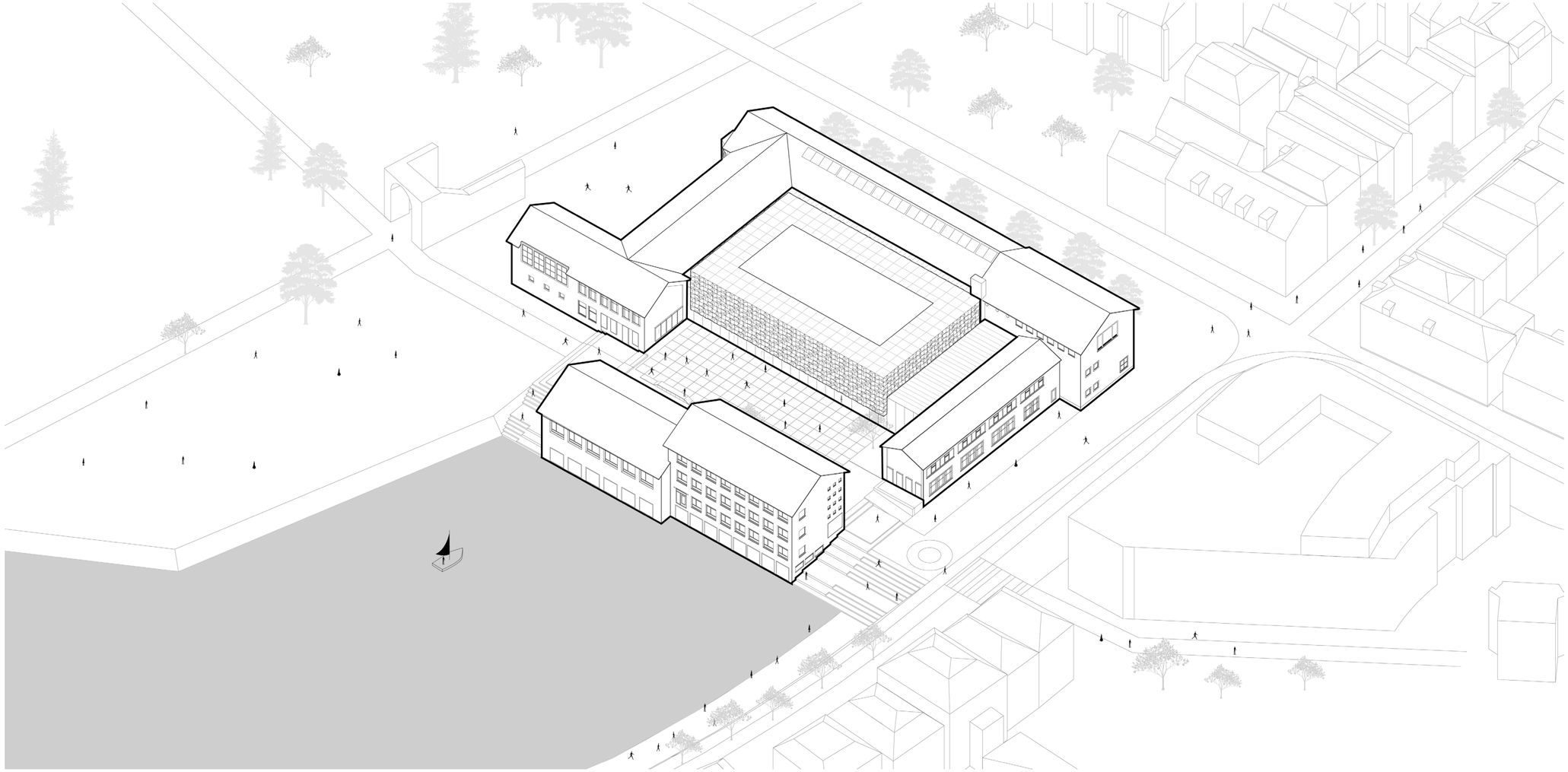
DESIGN
CONNECTION THROUGH GROUND FLOOR



DESIGN
FUNCTION DISTRIBUTION



DESIGN
BAUDARTIUS CENTRE FOR VISUAL ARTS



DESIGN
APPROACHING THE BUILDING

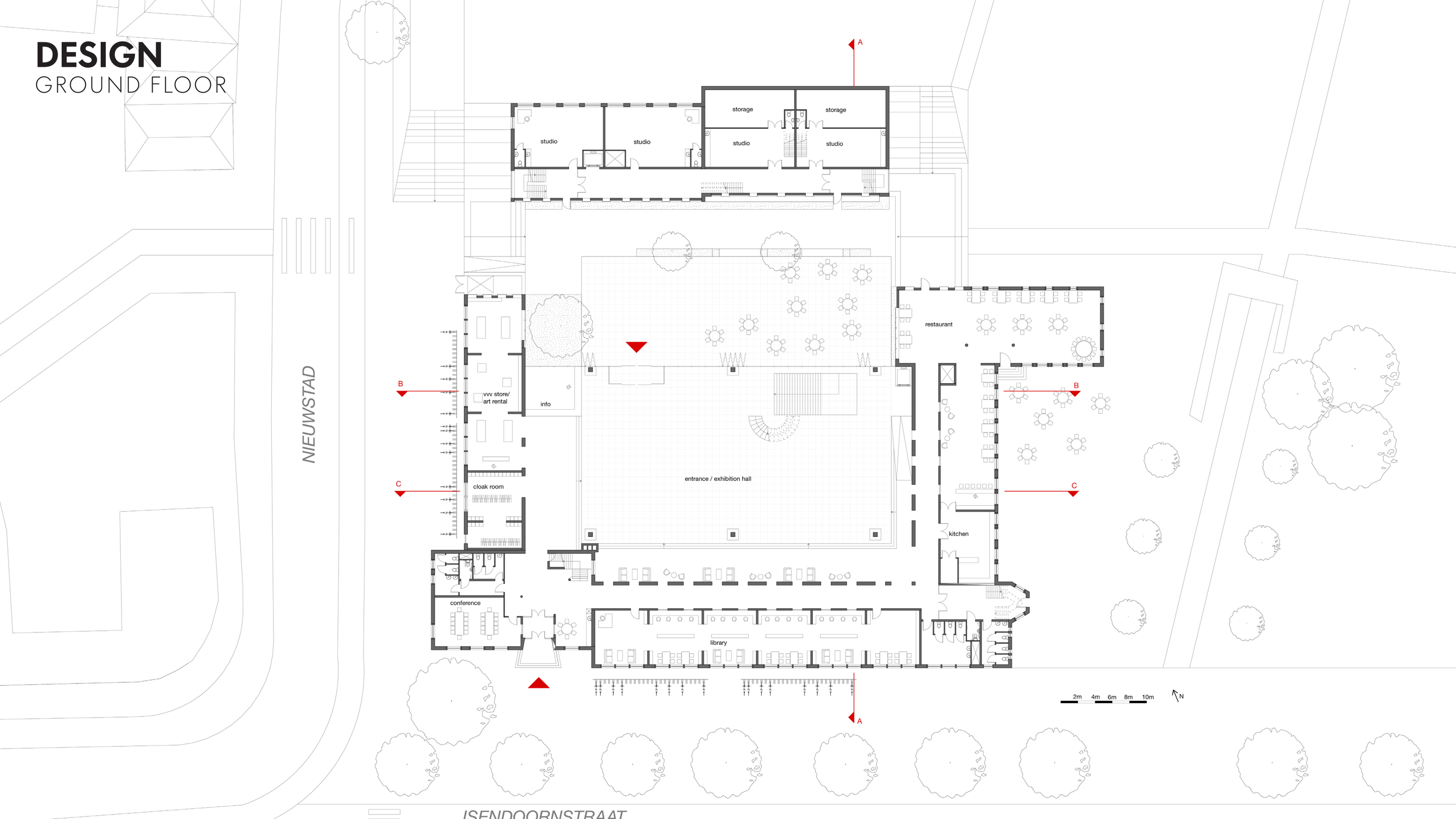
DESIGN
APPROACHING THE BUILDING

DESIGN

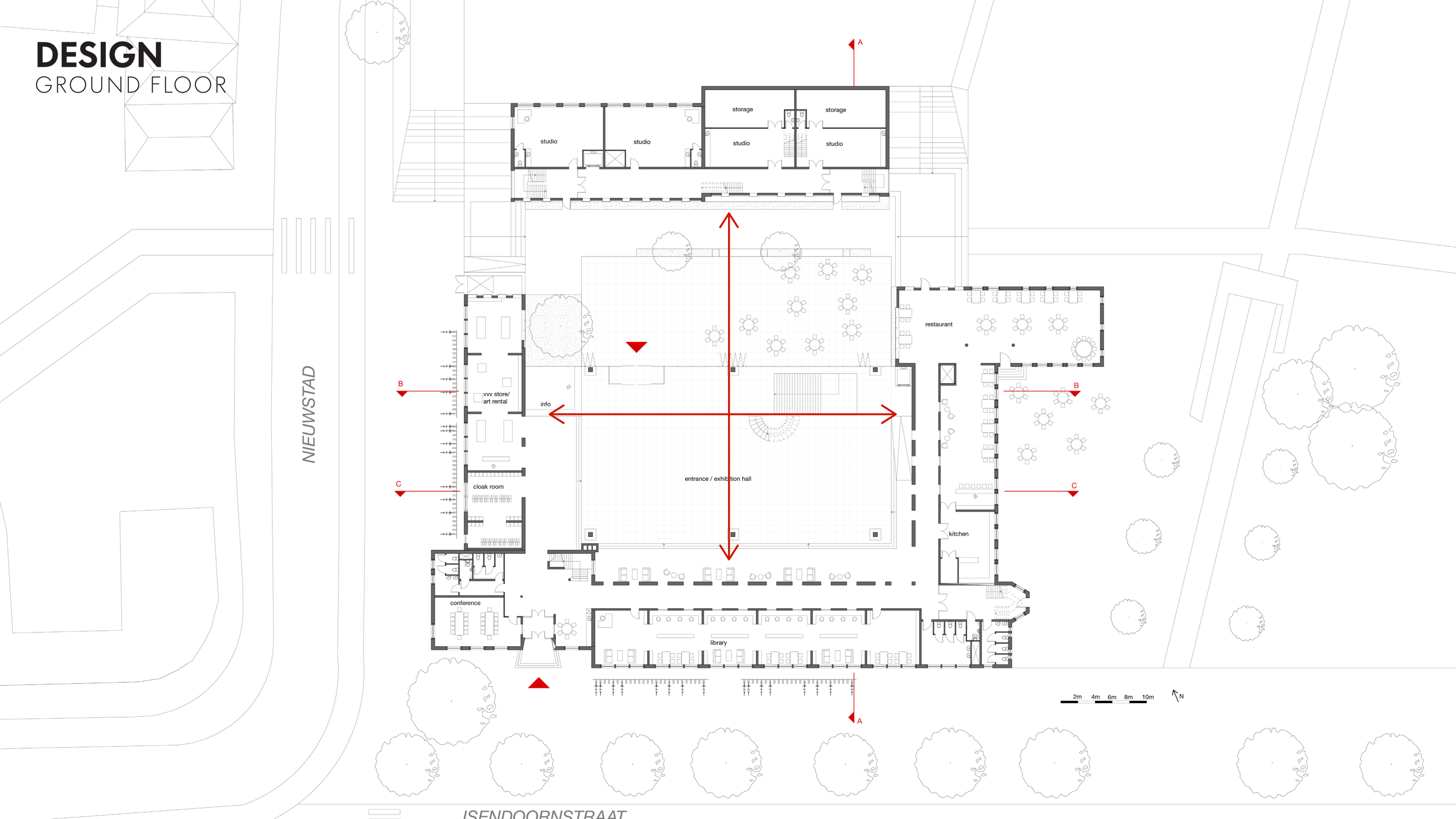
APPROACHING THE BUILDING

DESIGN
SHOWING SCARS

DESIGN
GROUND FLOOR



DESIGN
GROUND FLOOR



DESIGN

THIN BARRIERE

DESIGN

THIN BARRIERE

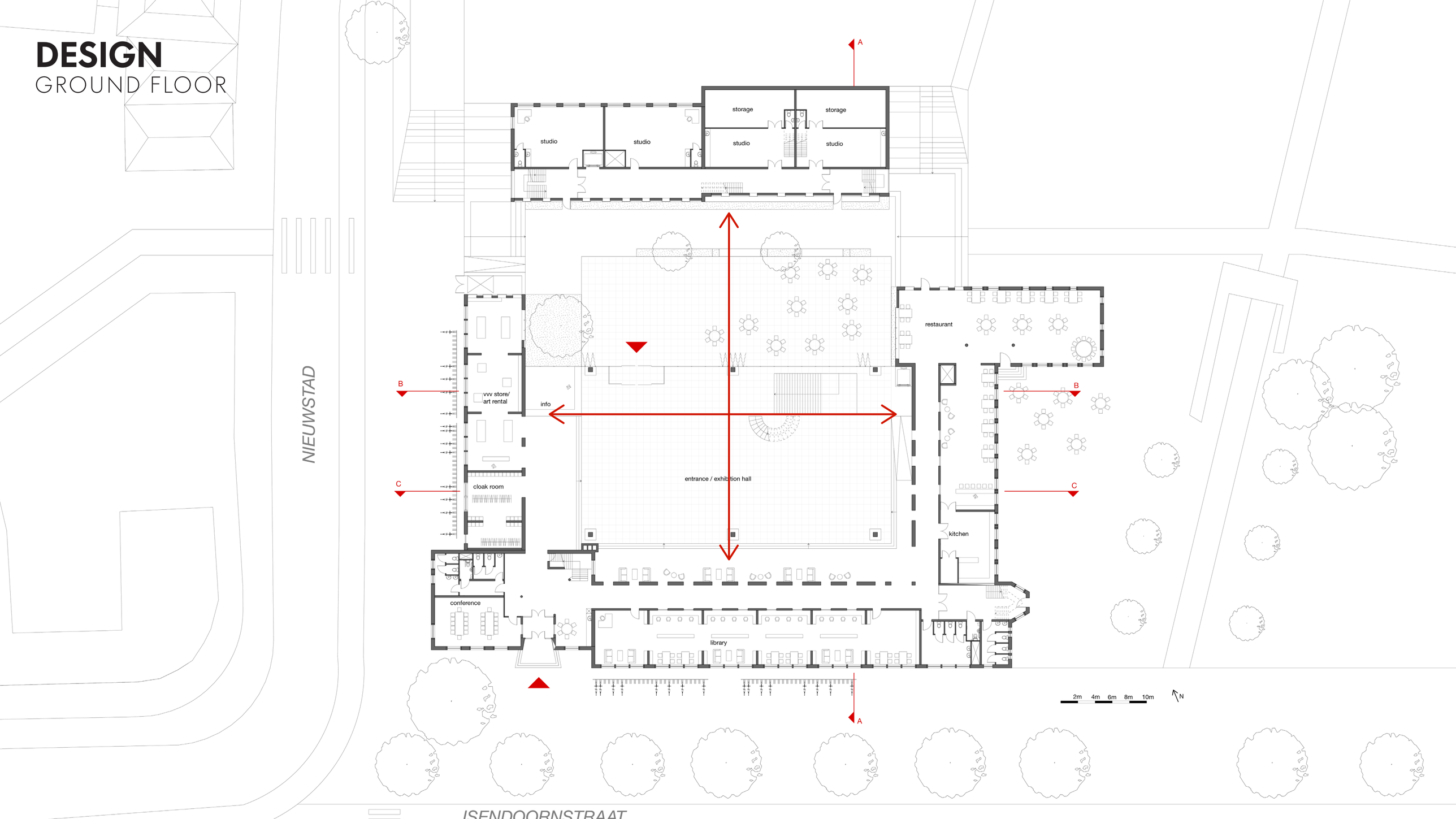
DESIGN

THIN BARRIERE

DESIGN

THIN BARRIERE

DESIGN
GROUND FLOOR

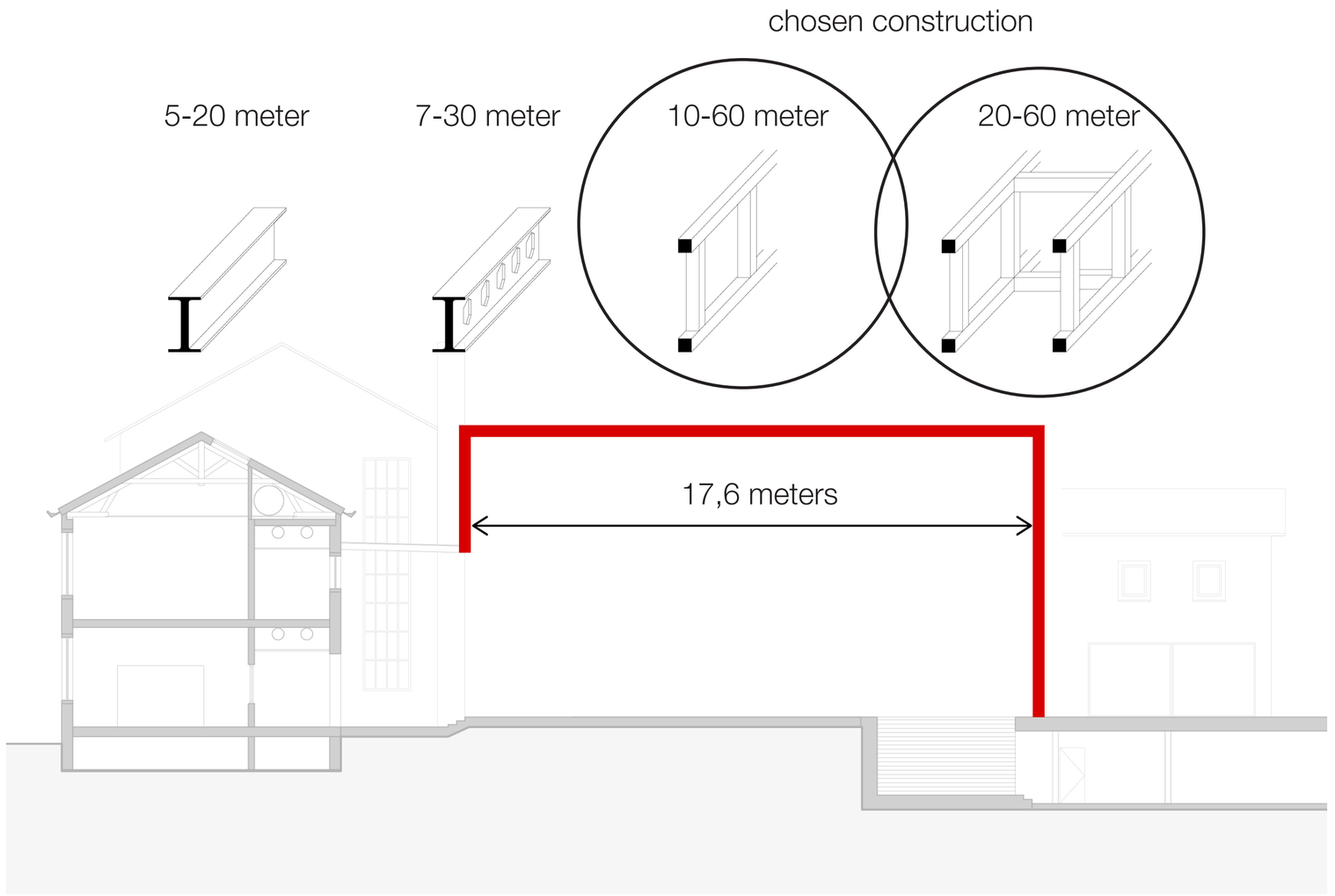


DESIGN
CONSTRUCTION

source: https://su2016.thedude.oucreate.com/uncategorized/neue-nationalgalerie/

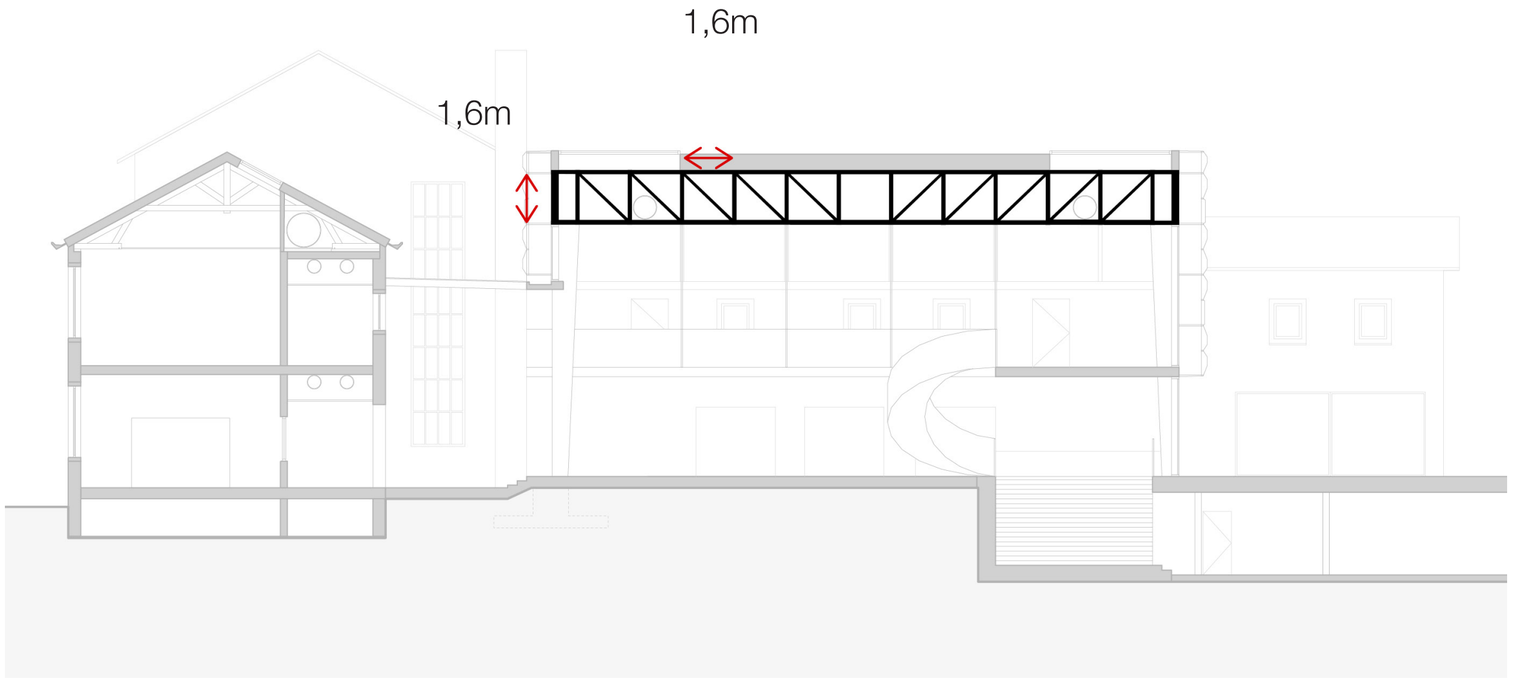
source: https://www.artfund.org/whats-on/museums-and-galleries/sainsbury-centre-for-visual-arts

DESIGN
CONSTRUCTION



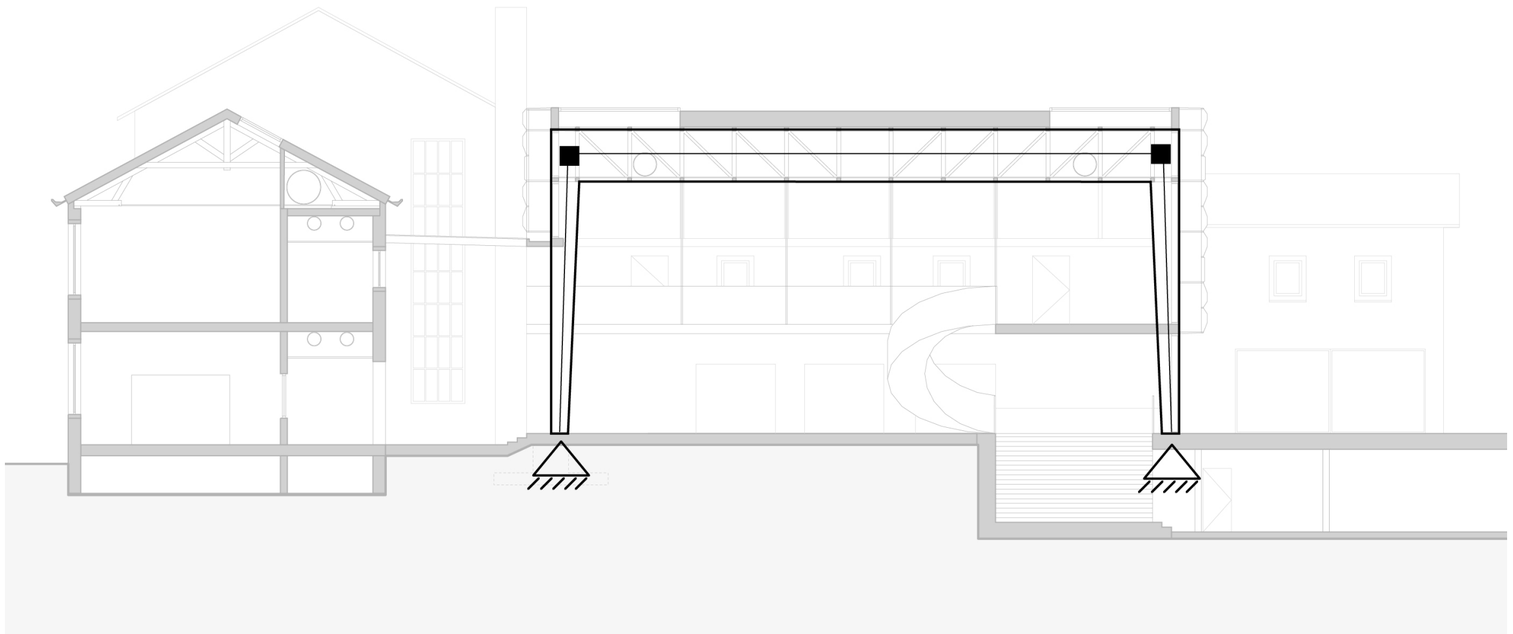
VIERENDEEL TRUSS CONSTRUCTION

DESIGN
CONSTRUCTION



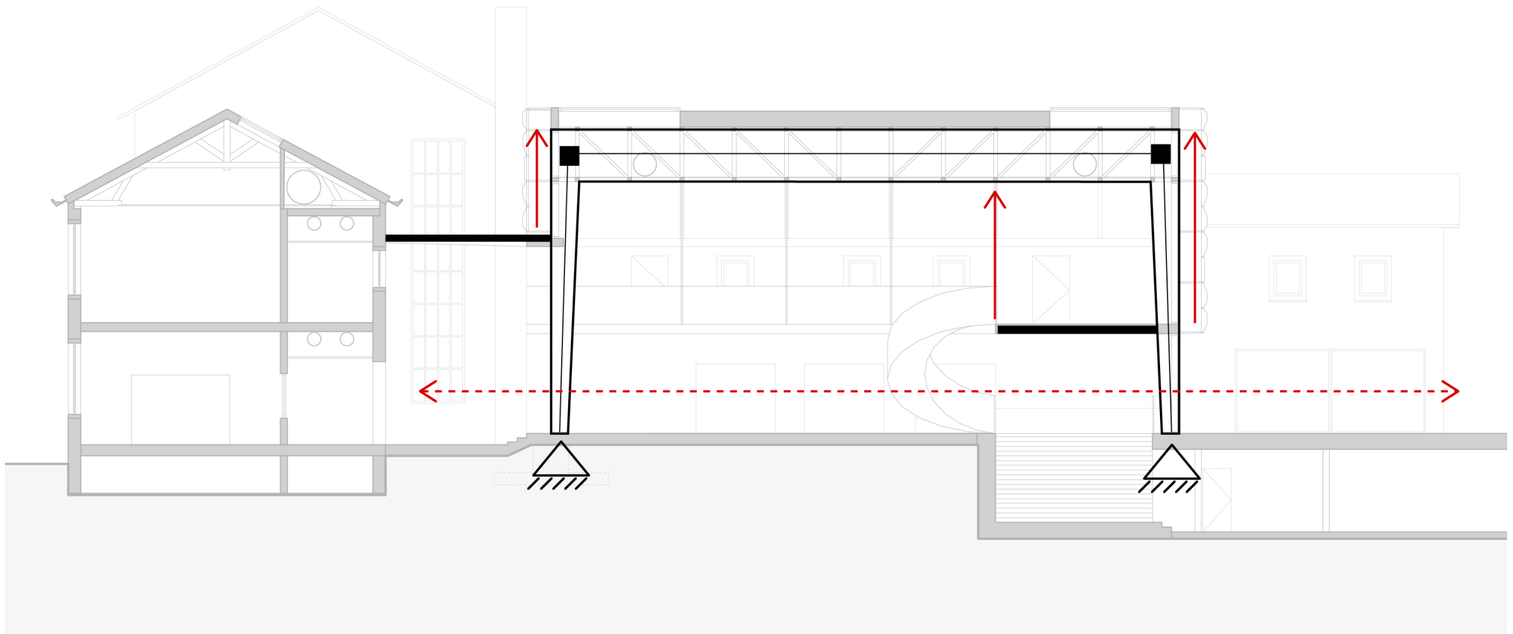
GRID OF 1,6 X 1,6M

DESIGN
CONSTRUCTION



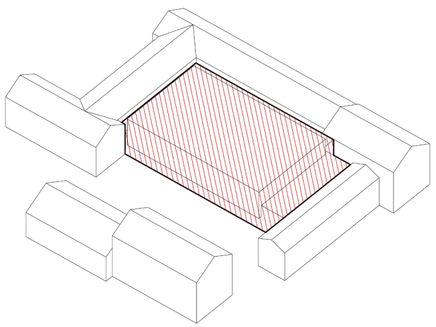
STRUCTURE WITH FIXED CONNECTIONS

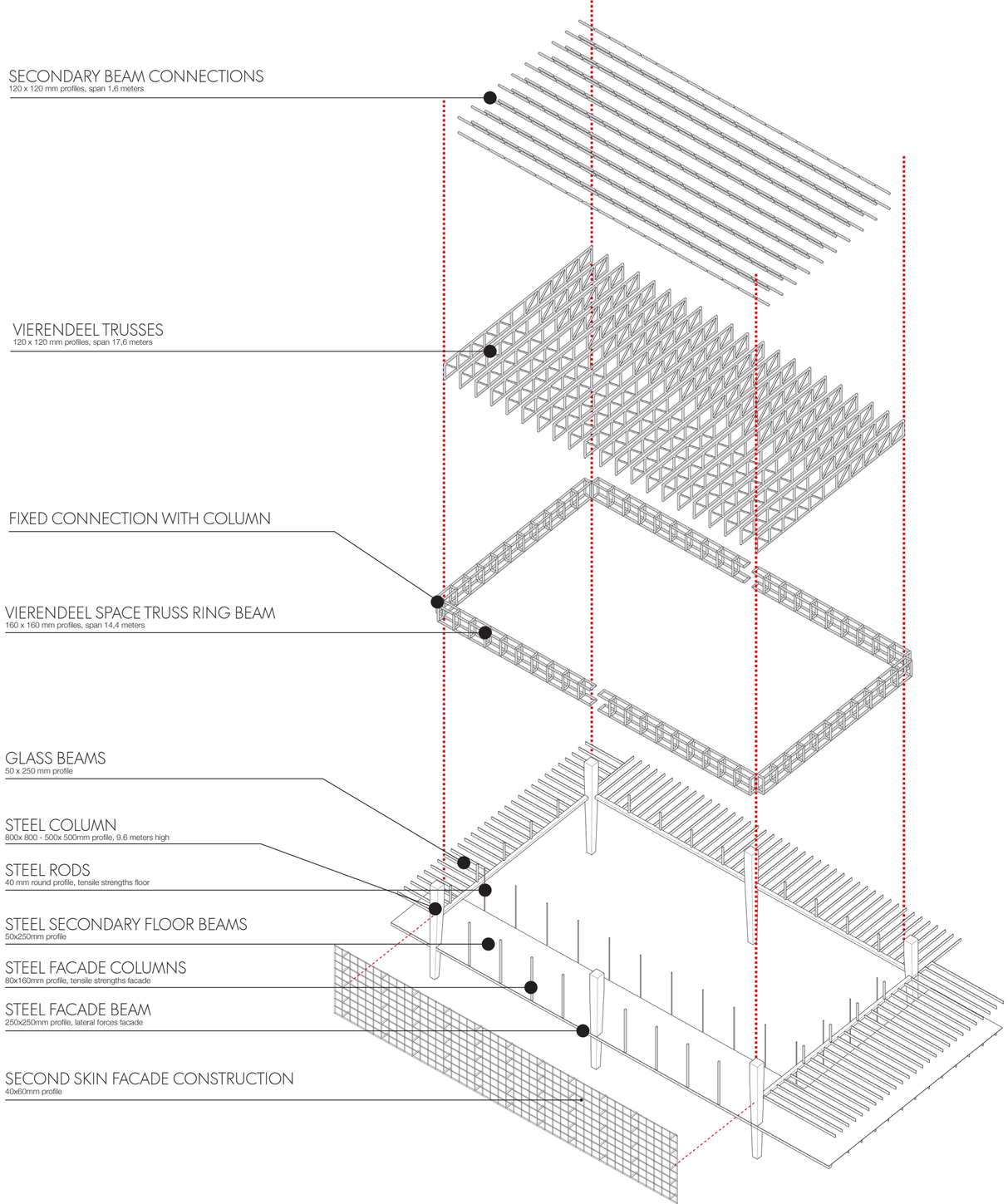
DESIGN
CONSTRUCTION



HANGING FACADES & FLOORS

DESIGN
CONSTRUCTION





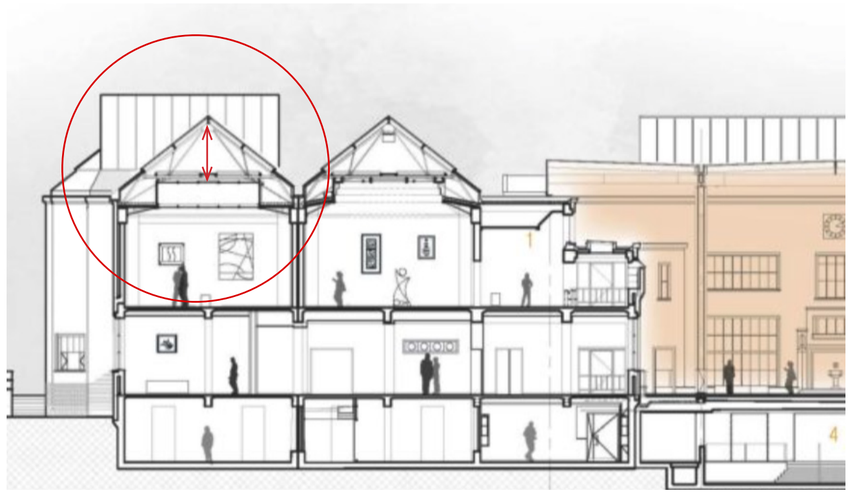
DESIGN
FLEXIBLE SPACE

DESIGN
FLEXIBLE SPACE

DESIGN
DAYLIGHT CONCEPT

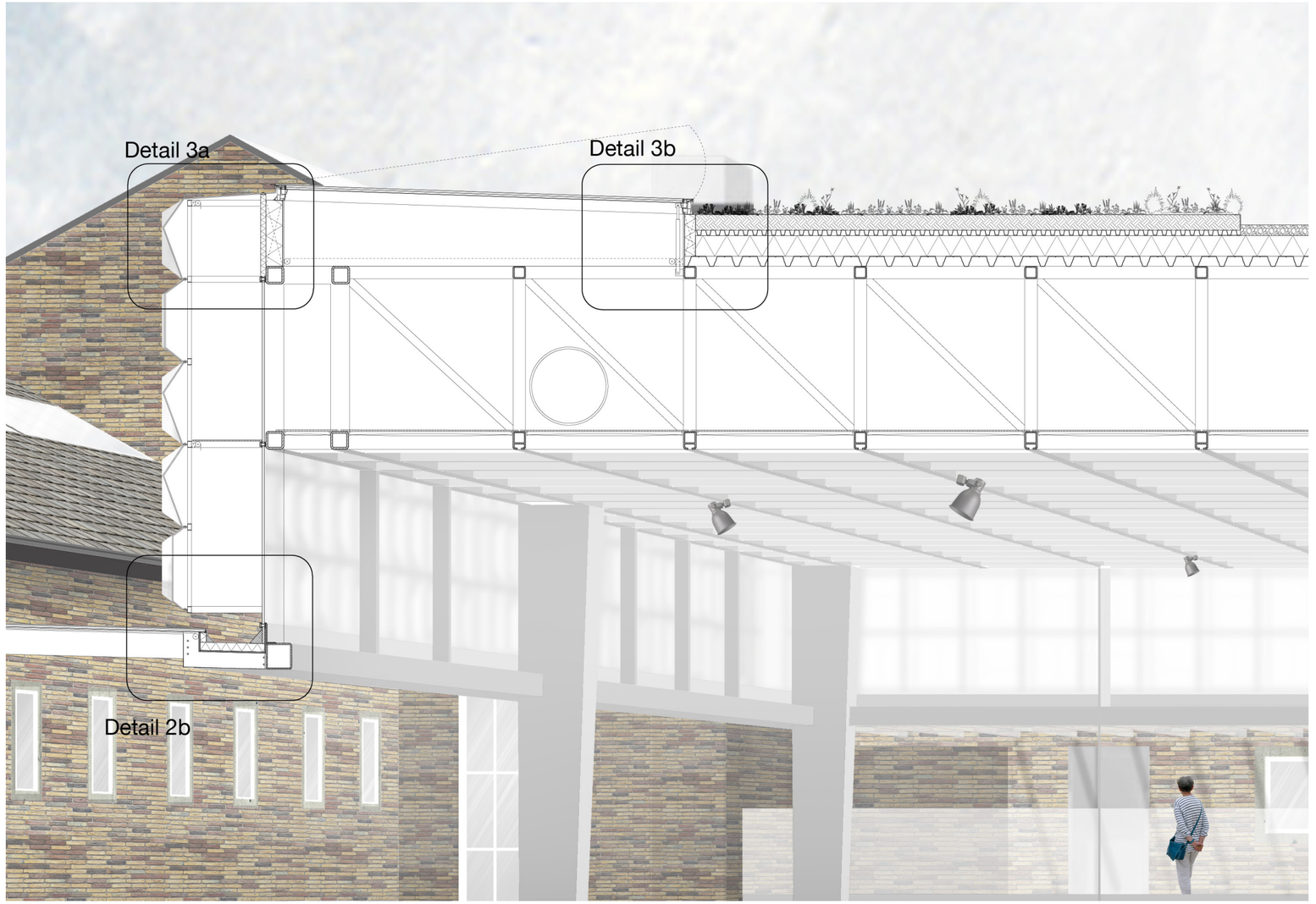
source: https://nl.pinterest.com/pin/306315212150603138/

source: https://www.artfund.org/whats-on/museums-and-galleries/sainsbury-centre-for-visual-arts



source :http://www.braaksma-roos.nl/project/tuinzaal-haags-gemeentemuseum/

DESIGN
DAYLIGHT CONCEPT



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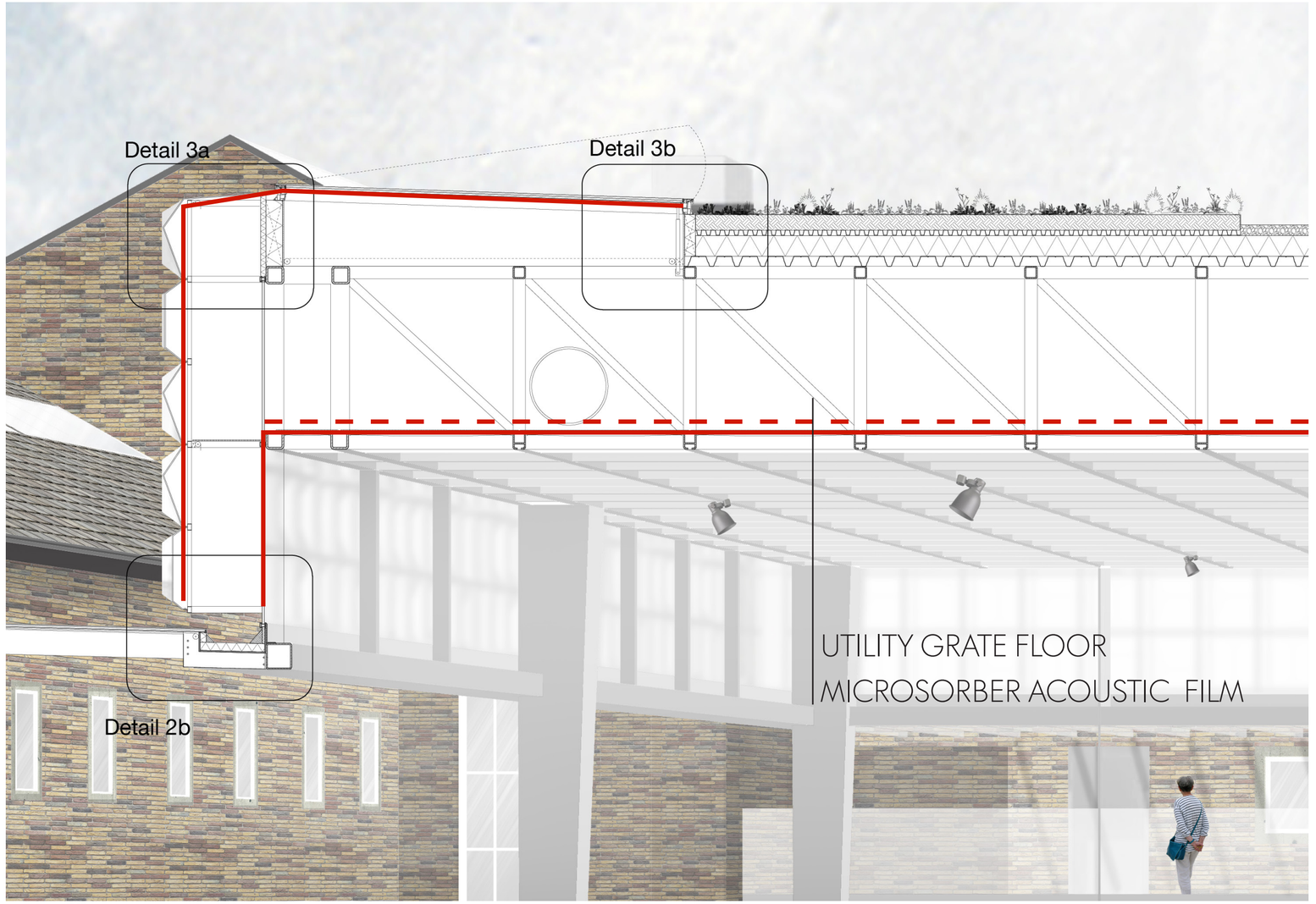
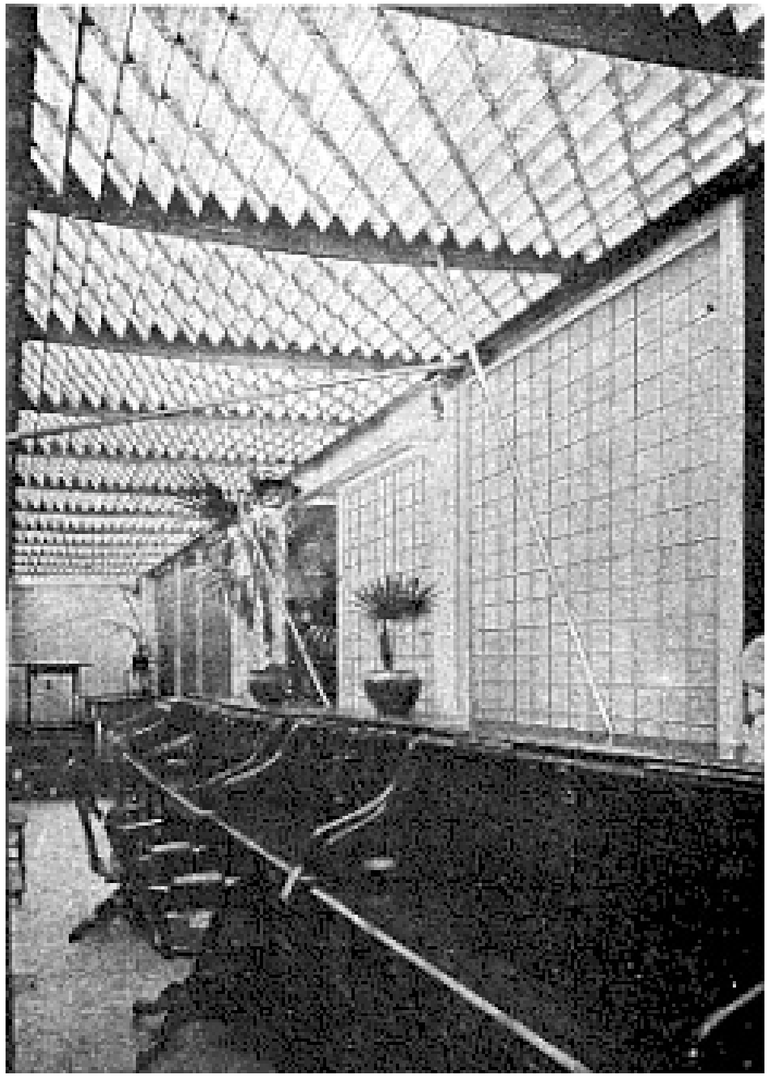
DAYLIGHT CONCEPT



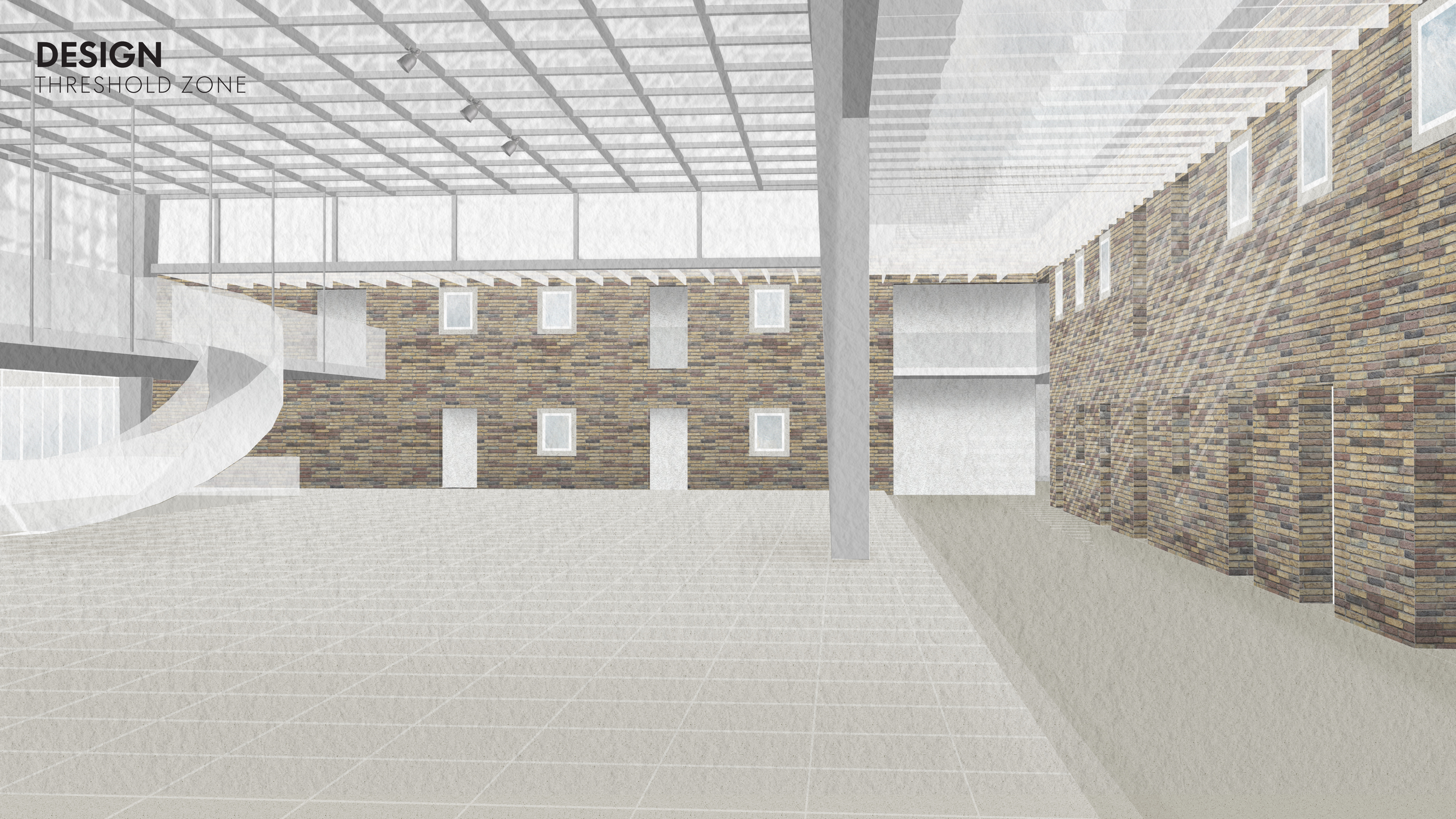
DESIGN
DAYLIGHT FACADE INSPIRATION



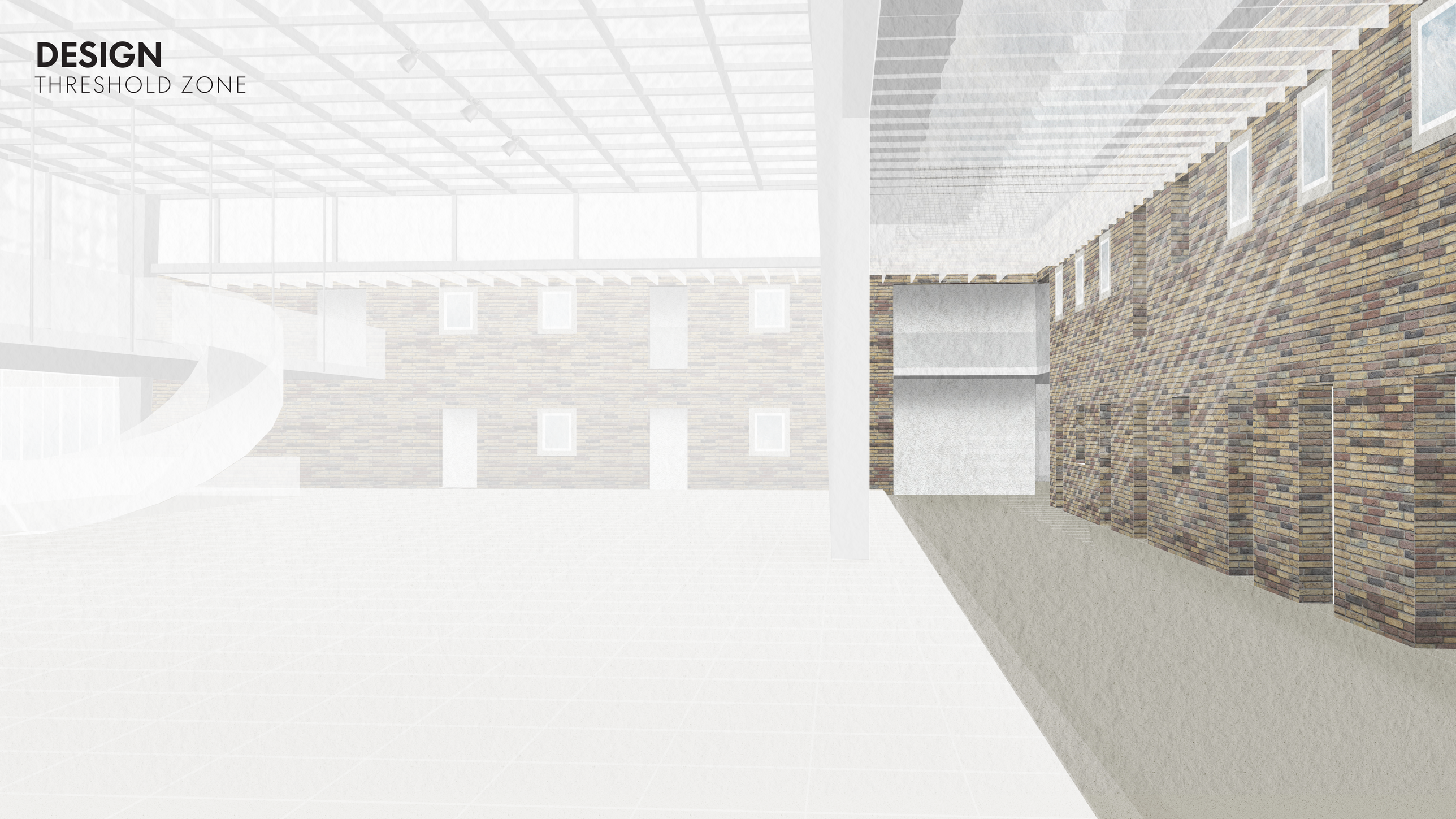
DESIGN
DAYLIGHT FACADE

DESIGN
BAUDARTIUS PROPORTIONS

DESIGN
THRESHOLD ZONE

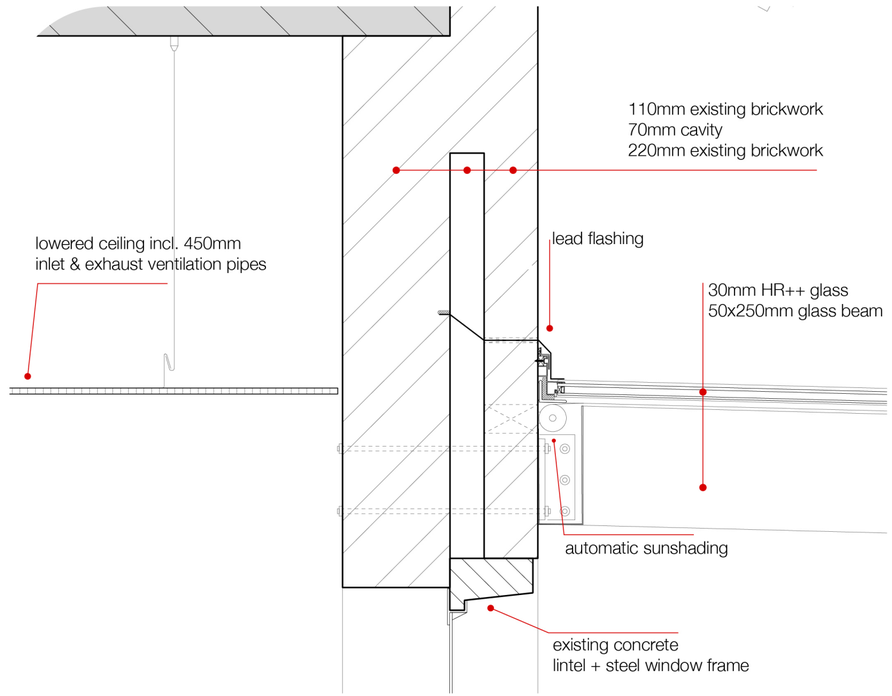


DESIGN
THRESHOLD ZONE



DESIGN
THRESHOLD ZONE

DESIGN
THRESHOLD ZONE



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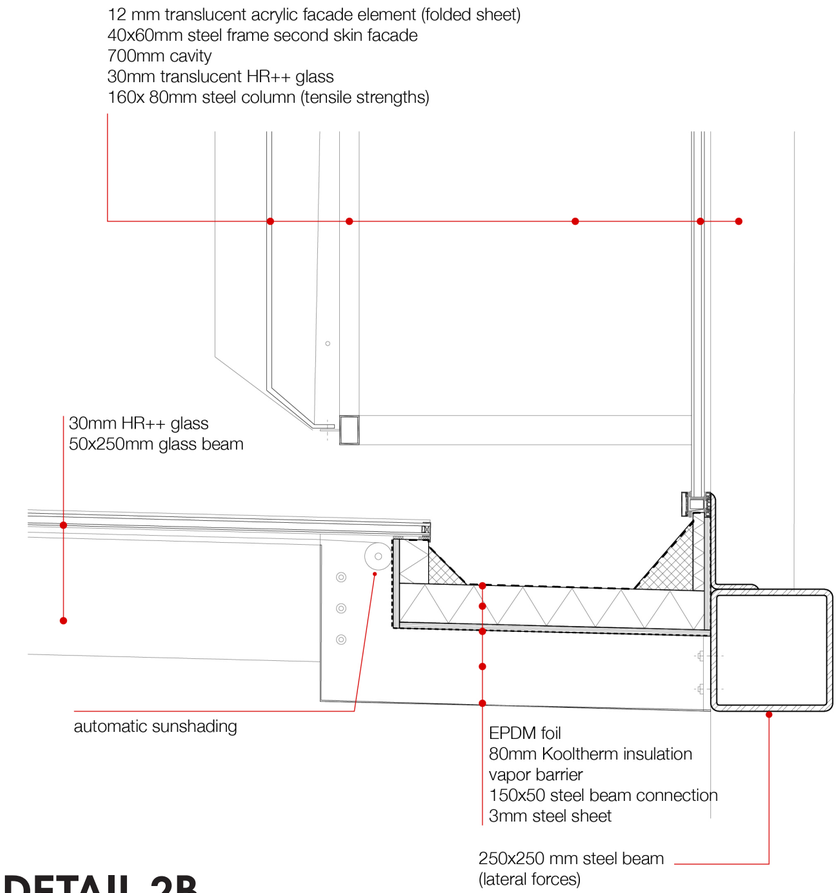
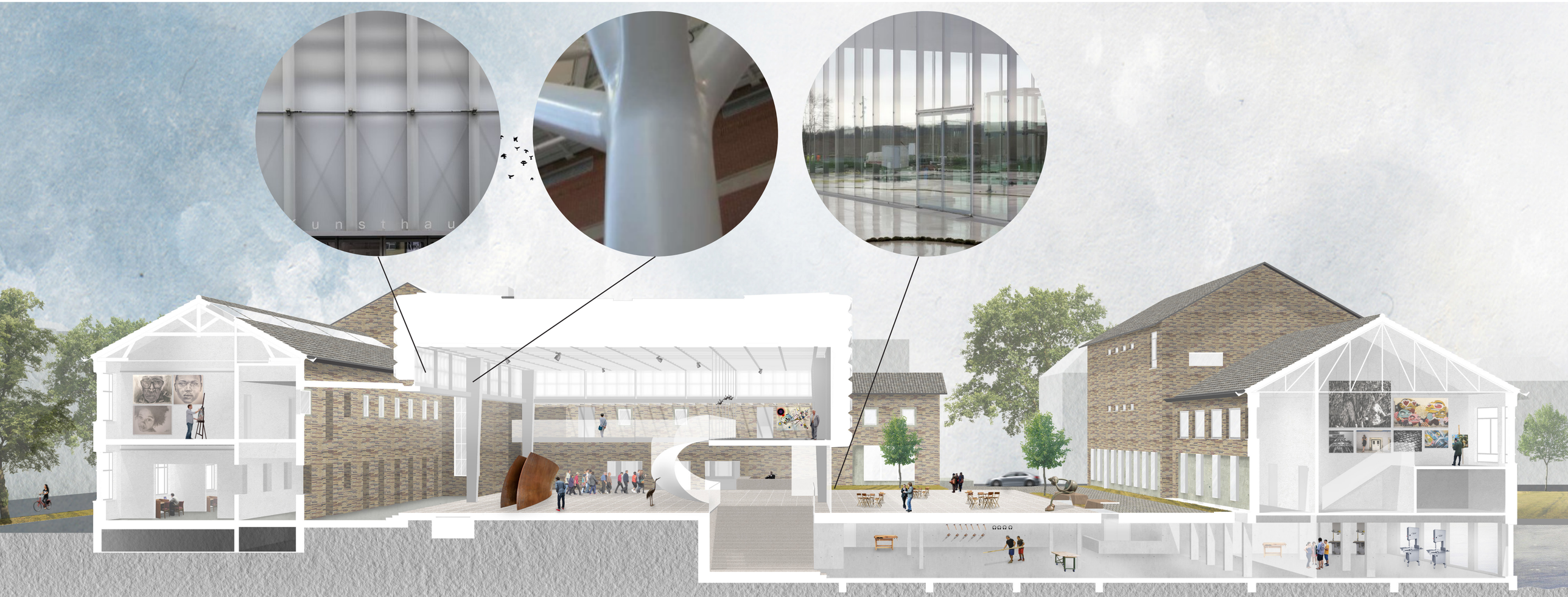


DETAIL 2B

DESIGN
OVERVIEW



source: https://www.detail.de/artikel/integrative-durchlaessigkeit-louvre-lens-von-sanaa-9875/
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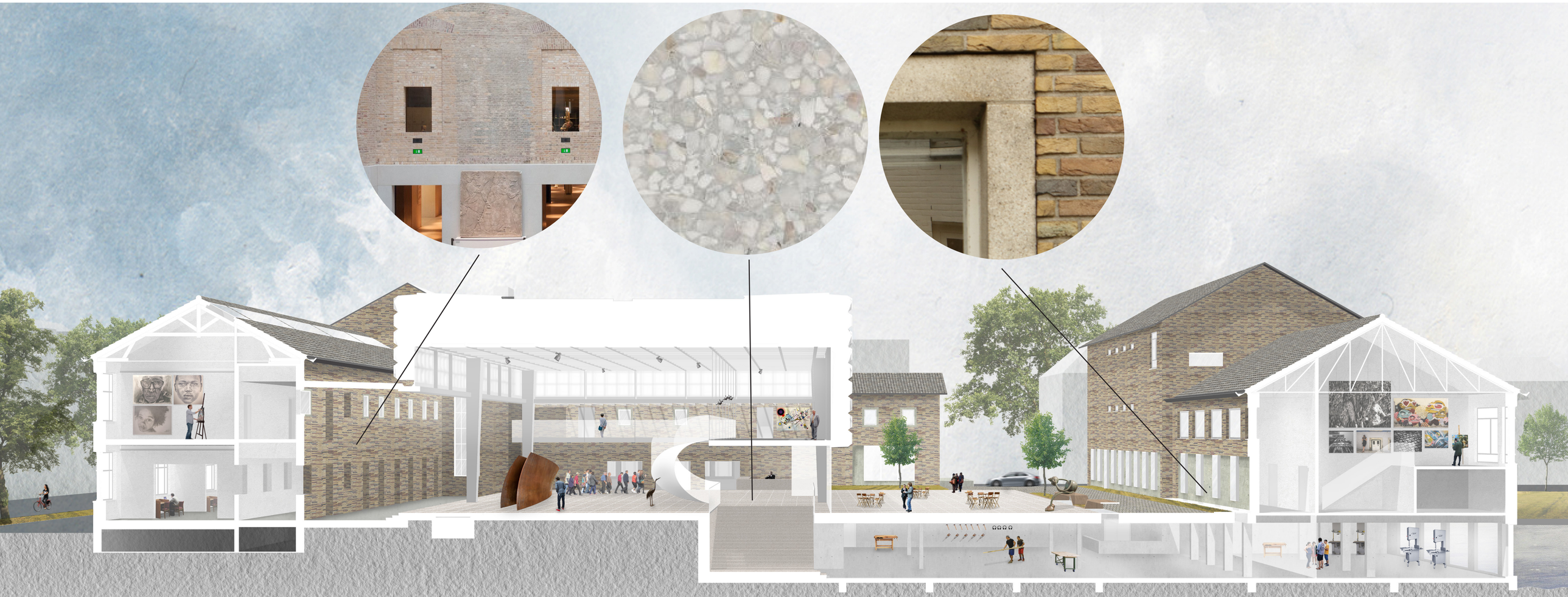
DESIGN
OVERVIEW

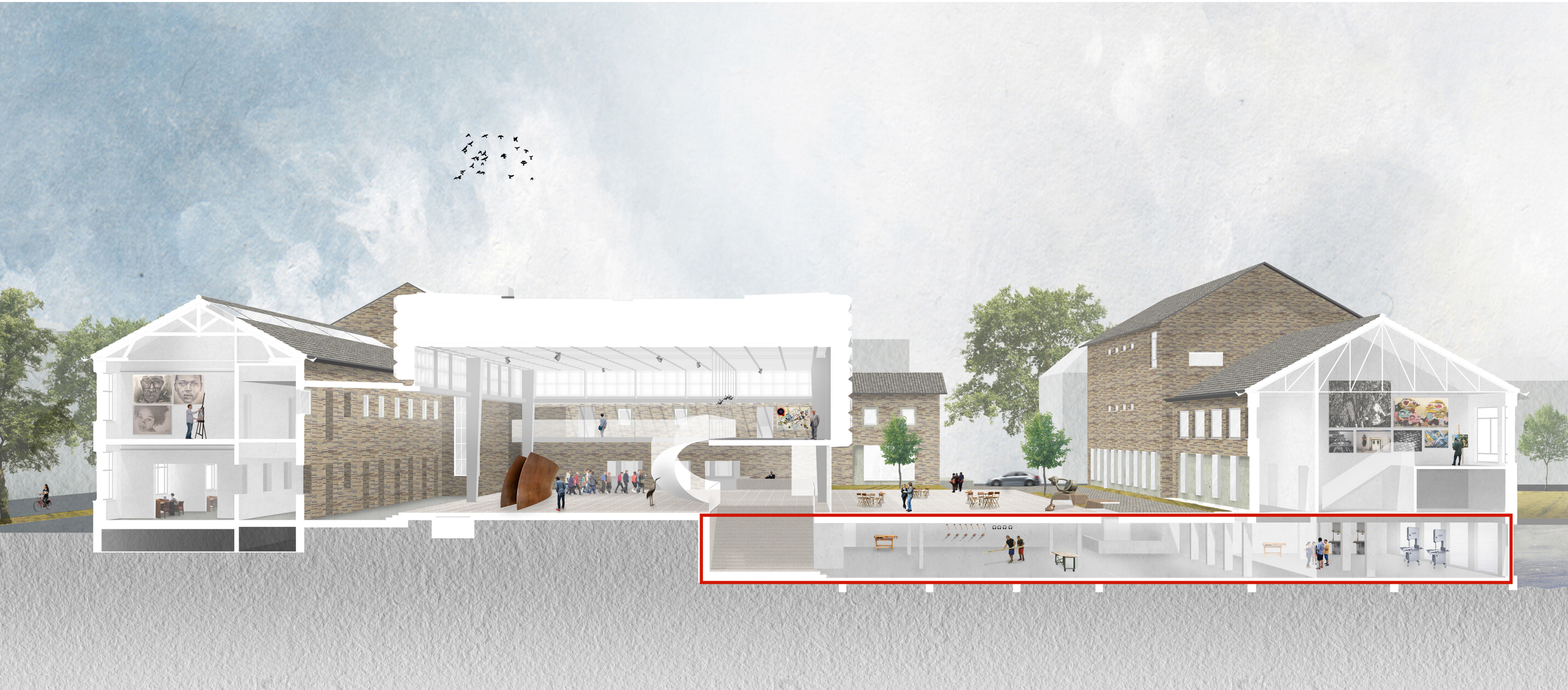


source: https://nl.pinterest.com/pin/444237950736258897/?lp=true
source: http://modulo.net/en/realizzazioni/neues-museum

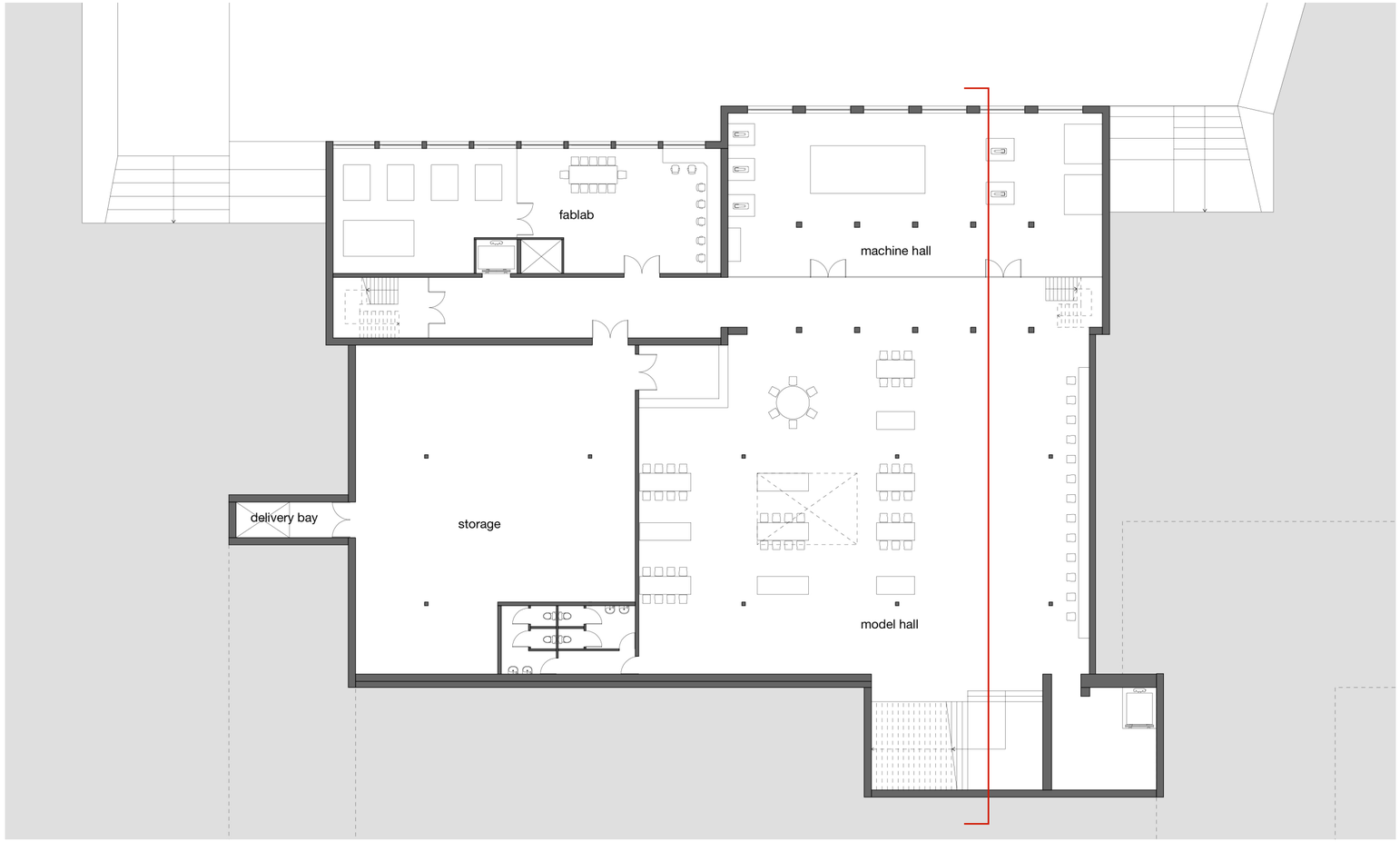
DESIGN
OVERVIEW

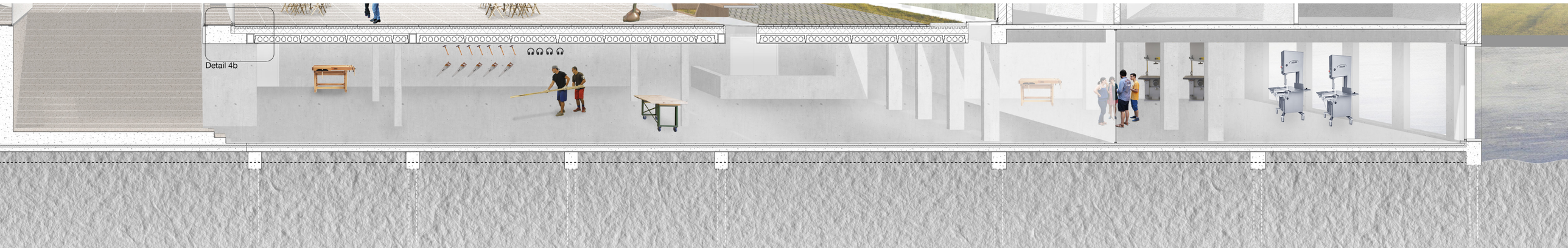
source: https://nl.pinterest.com/pin/147492956527740182/
source: textures.com

DESIGN
BASEMENT



DESIGN
BASEMENT



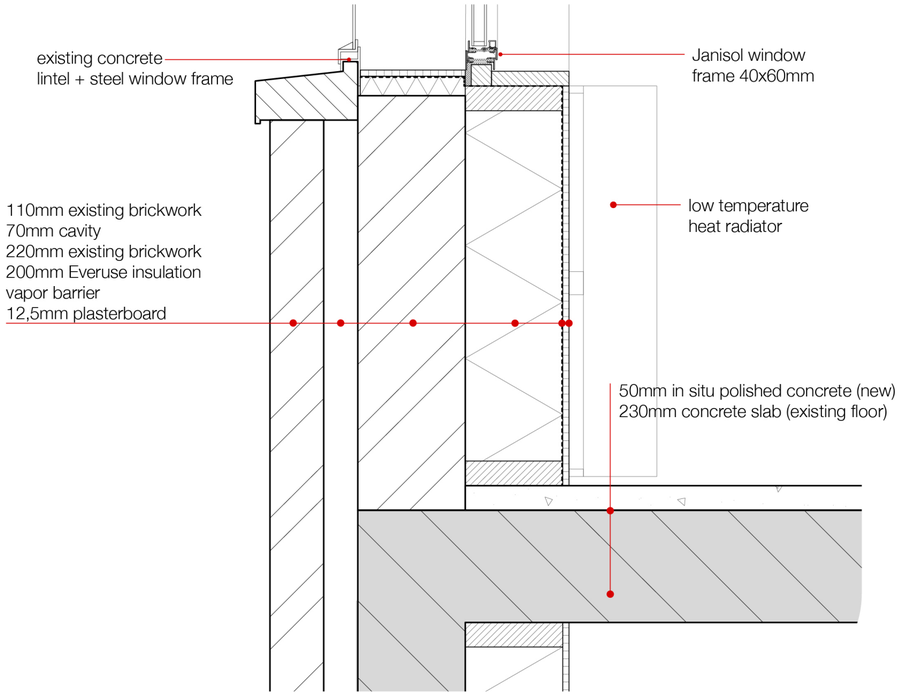


DESIGN
STUDIOS

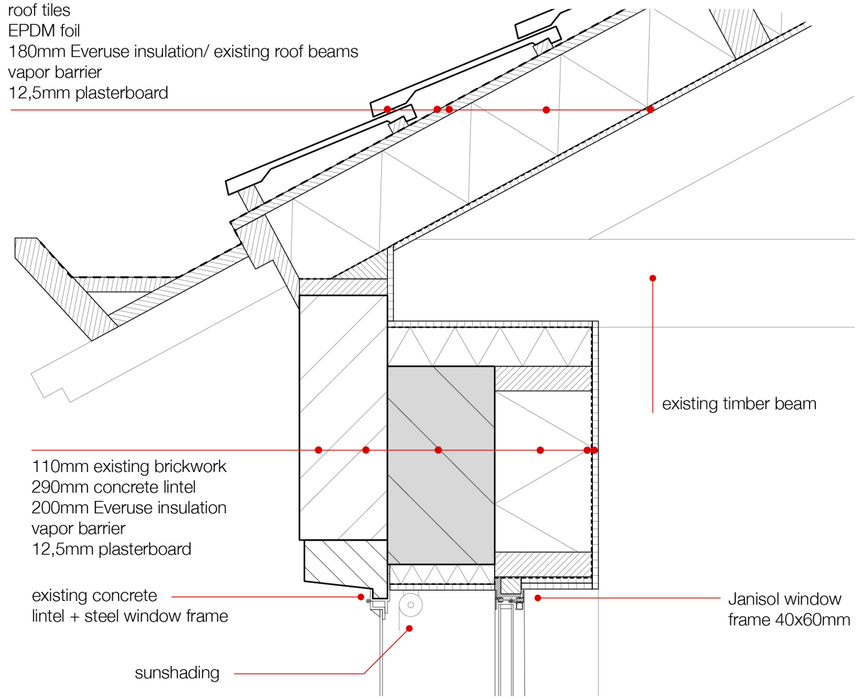
DESIGN
STUDIOS

DESIGN
STUDIOS

DESIGN
INSULATION



DETAIL 1A



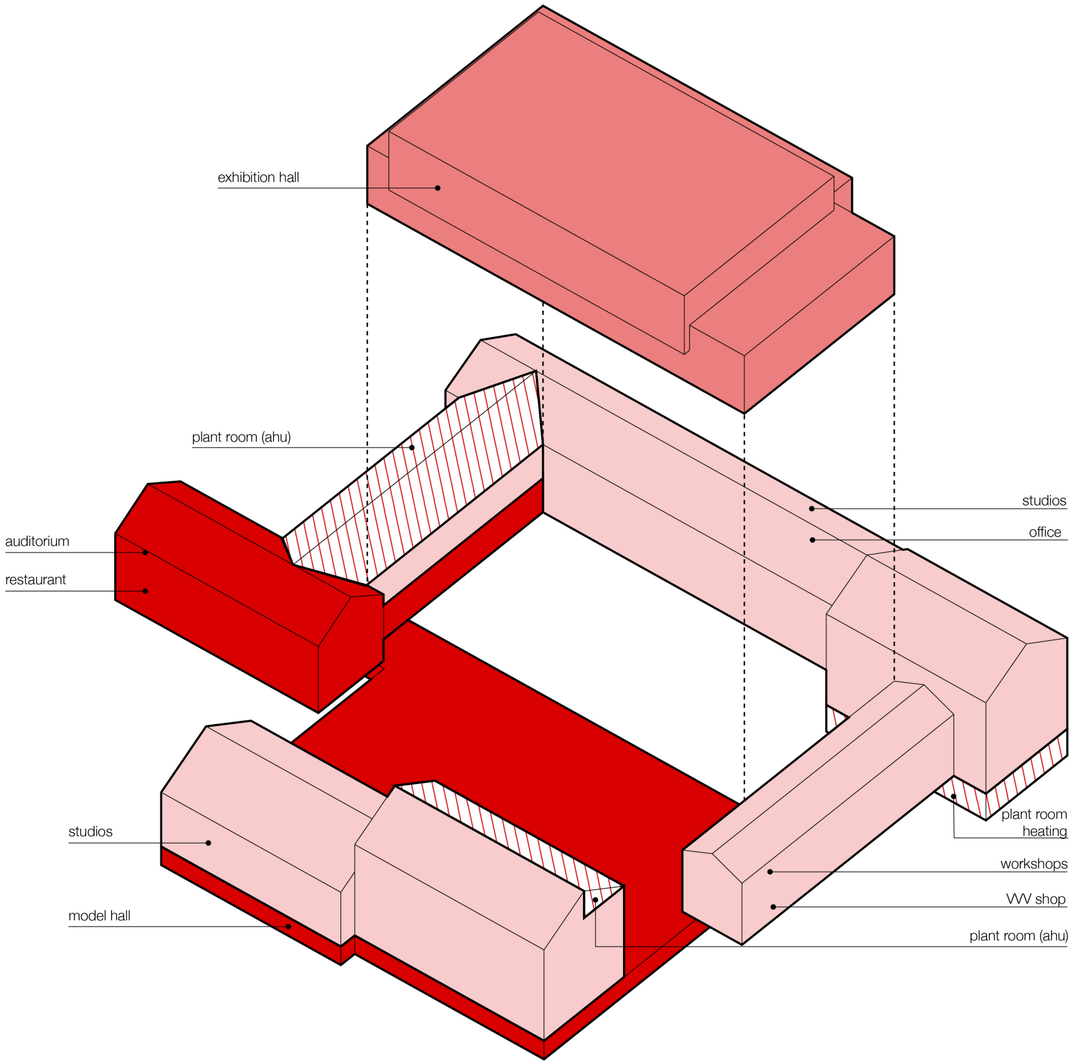
DETAIL 1B

BUILDING | MAINTAINING THE KEY FACADE

SOUTH FACADE

DESIGN
OVERVIEW

DESIGN
CLIMATE



CLIMATE ZONE 1

Ventilation is always mechanically supllied and exhausted; both in winter and summer (8x m3/h).

The space is heated and dehumidified by air, anticipating on large groups of people.

Natural daylight ingresses the space via direct light through windows and skylights. Sunshading is integrated in the cavity between the old and new windows.

CLIMATE ZONE 2

In winter ventilation is mechanically supllied and exhausted and heats up the space (5x m3/h). In summer the space is mostly ventilated naturally by opening windows and folding doors.

The space is heated and dehumidified by air, anticipating on large groups of people.

Natural daylight ingresses the space directly through skylights along the fringes and indirectly through a double skin in the centre. In the skylights and the double skin facade, automatic sun shading is integrated.

CLIMATE ZONE 3

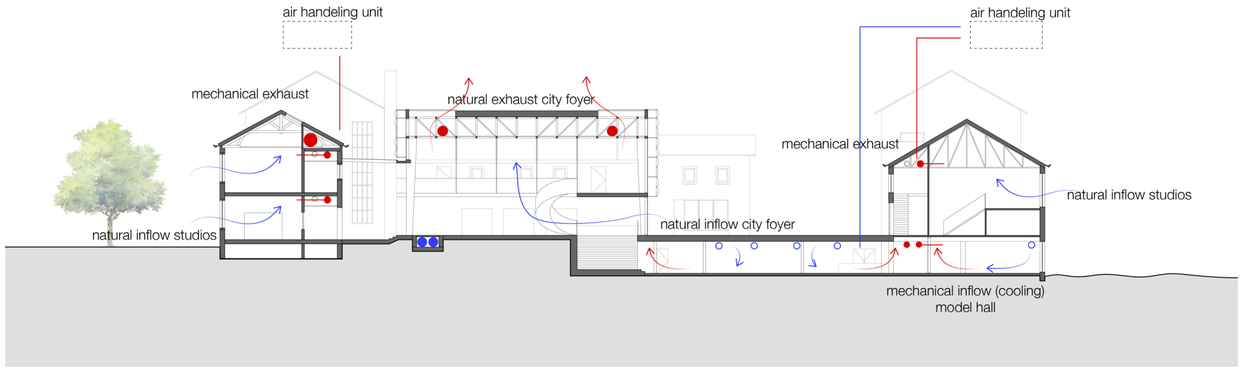
Ventilation is in winter mechanically supllied and exhausted; in summer naturally supplied and mechanically exhausted (3x m3/h).

The space is heated by low temperature heat radiators; anticipating on accidental usage of the space and controllability of the temperature by its users.

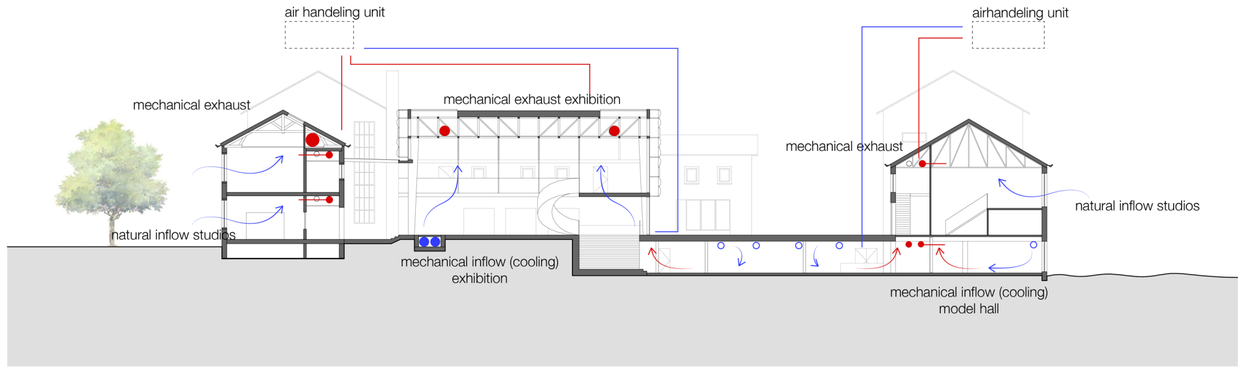
Natural daylight ingresses the space via direct light through windows and skylights. Sunshading is integrated in the cavity between the old and new windows.

PLANT ROOMS

DESIGN
CLIMATE

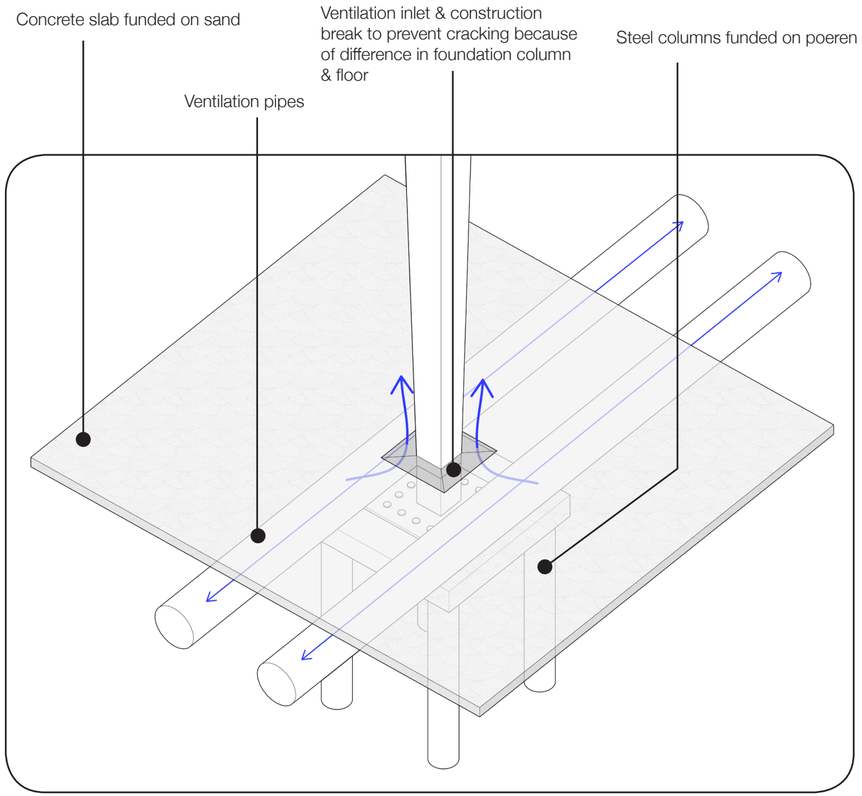


SUMMER VENTILATION

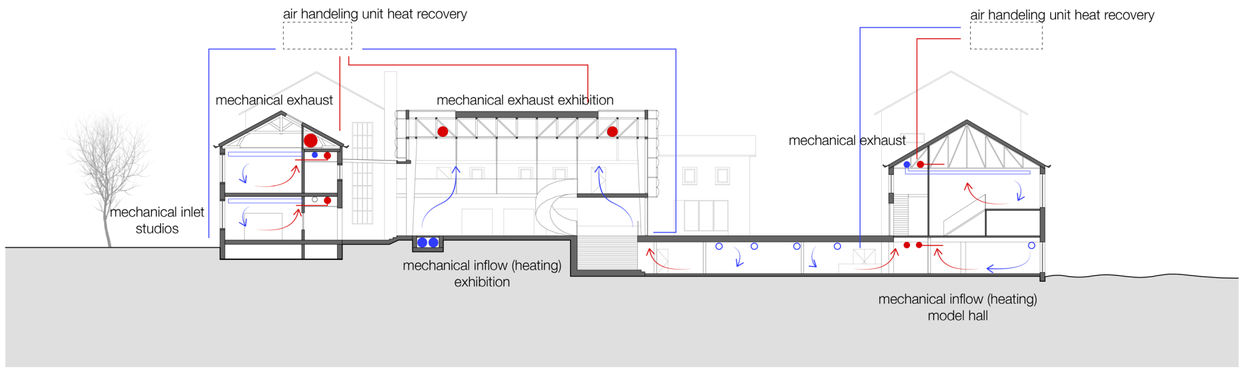


SUMMER VENTILATION
(occasionally)

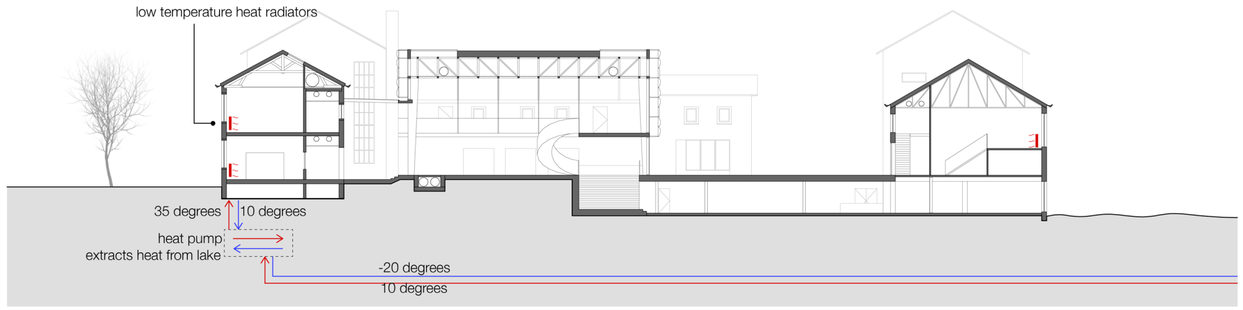
BLOCK FOUNDATION



DESIGN
CLIMATE



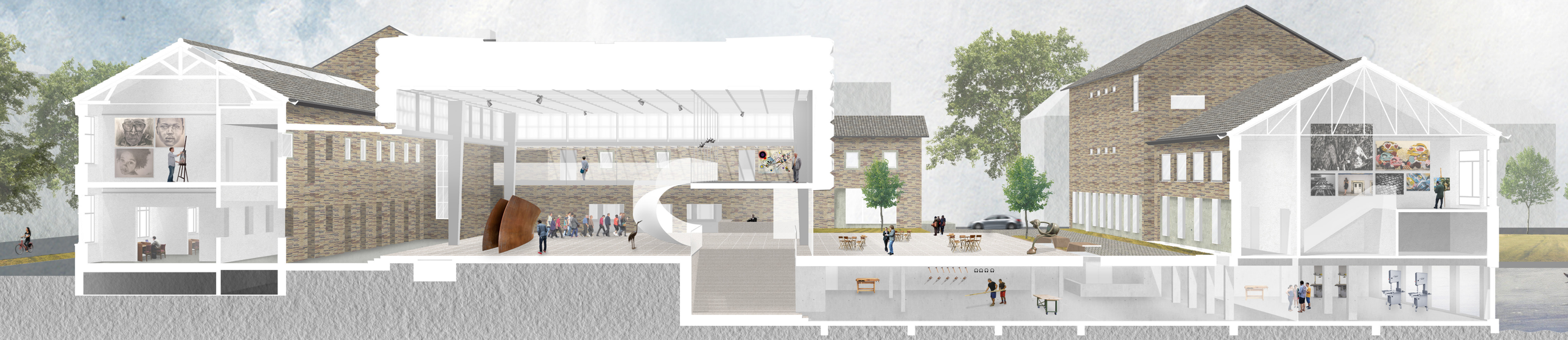
WINTER VENTILATION



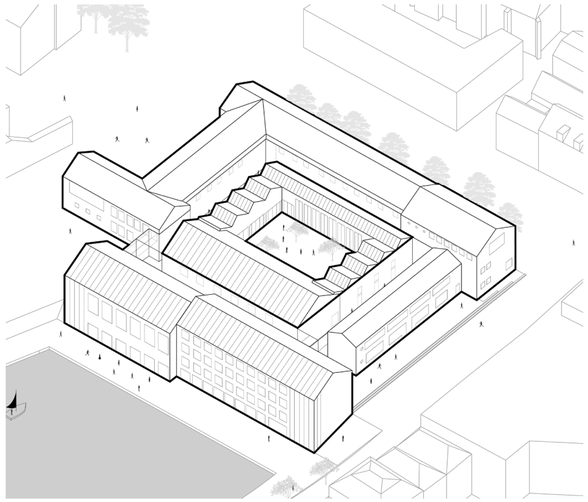
WINTER HEATING

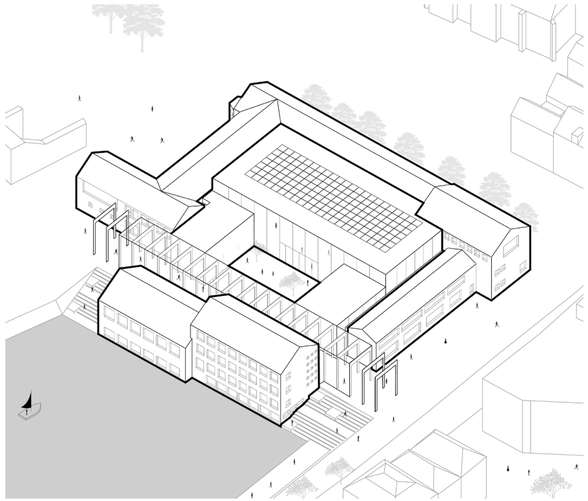
DESIGN
OVERVIEW

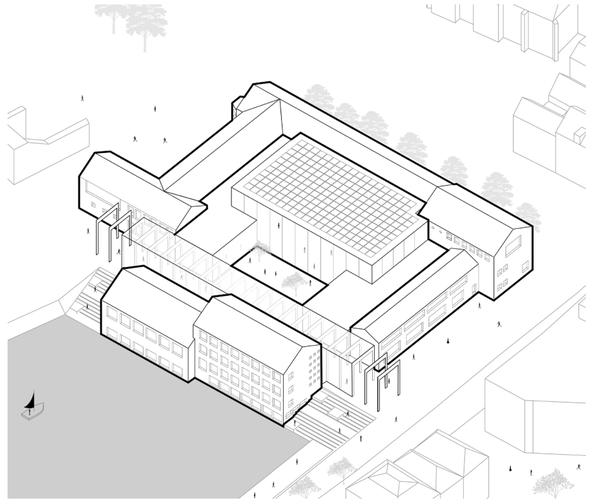
HOW CAN THE TRANSFORMATION OF THE BAUDARTIUS COLLEGE
RE-ESTABLISH THE IDENTITY AS FORMER GATEWAY TO THE CITY,
WHICH SERVES AS A SPATIAL AND SOCIAL CONNECTING POINT?

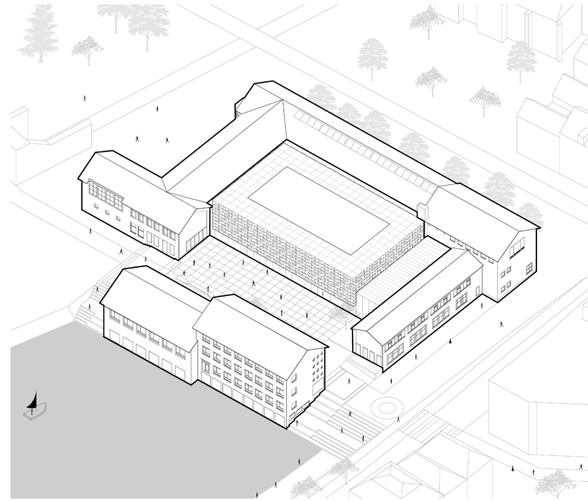


DESIGN
LESS IS MORE







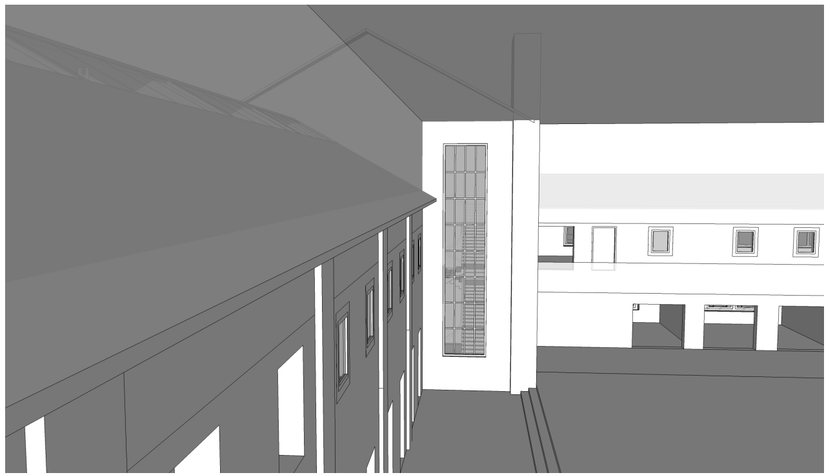


THE BAUDARTIUS CENTRE FOR VISUAL ARTS

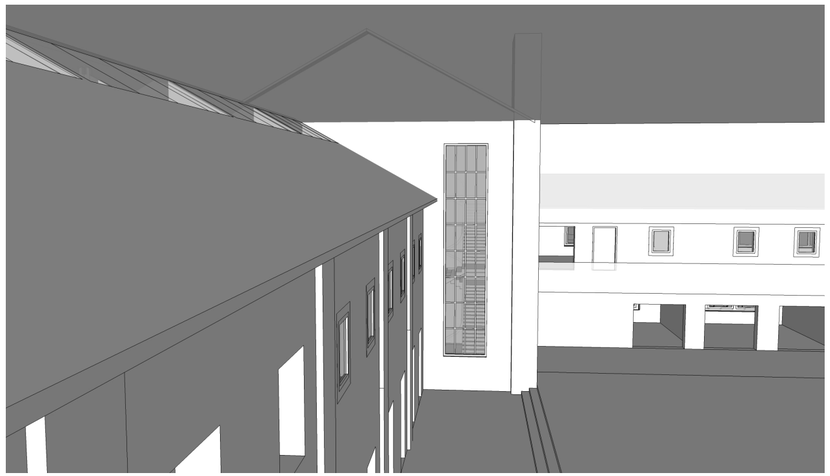
A NEW ENTRANCE TO ZUTPHEN

QUESTIONS?

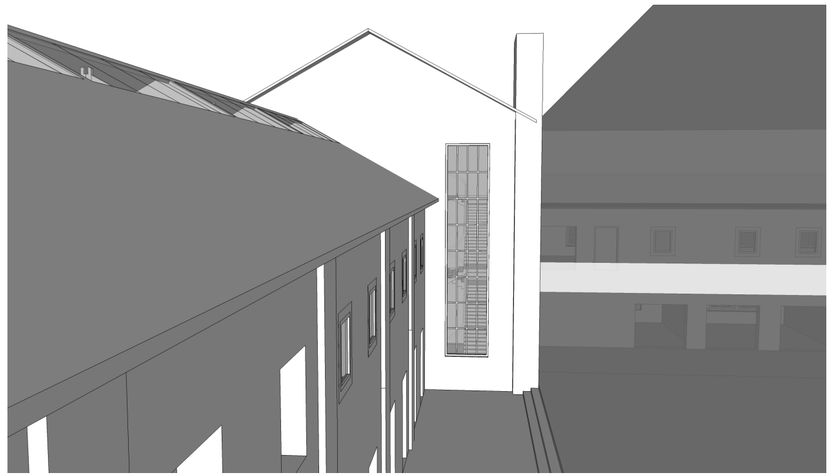
APPENDIX
STAINED GLASS WINDOW



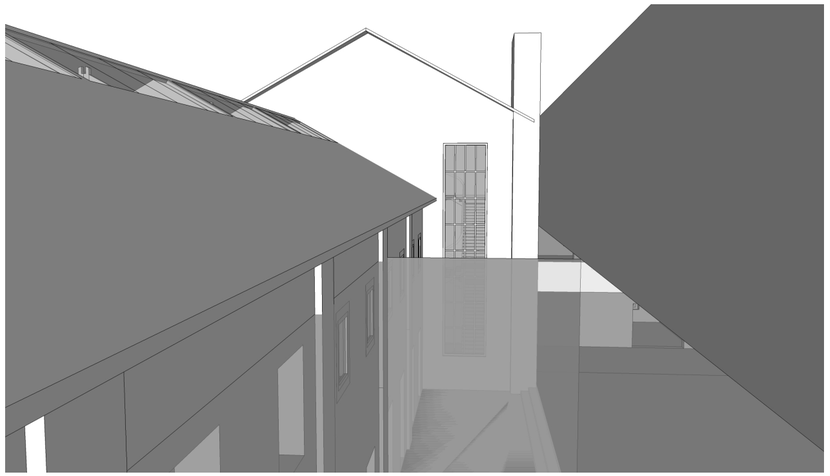
SPACE **+** LIGHT **+-** VOLUME **-**



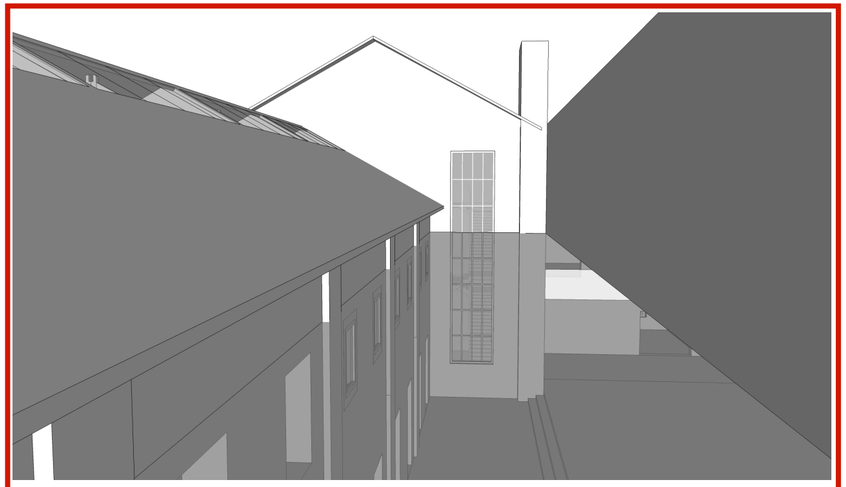
SPACE **+** LIGHT **+-** VOLUME **-**



SPACE **-** LIGHT **+** VOLUME **+-**

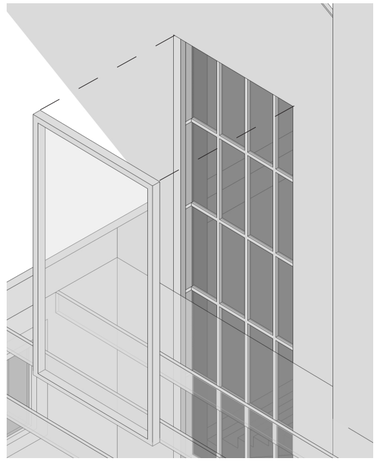


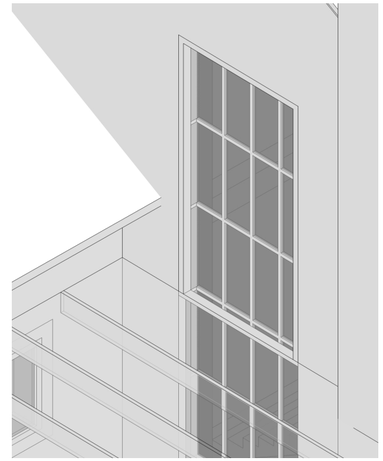
SPACE **-** LIGHT **+-** VOLUME **+-**



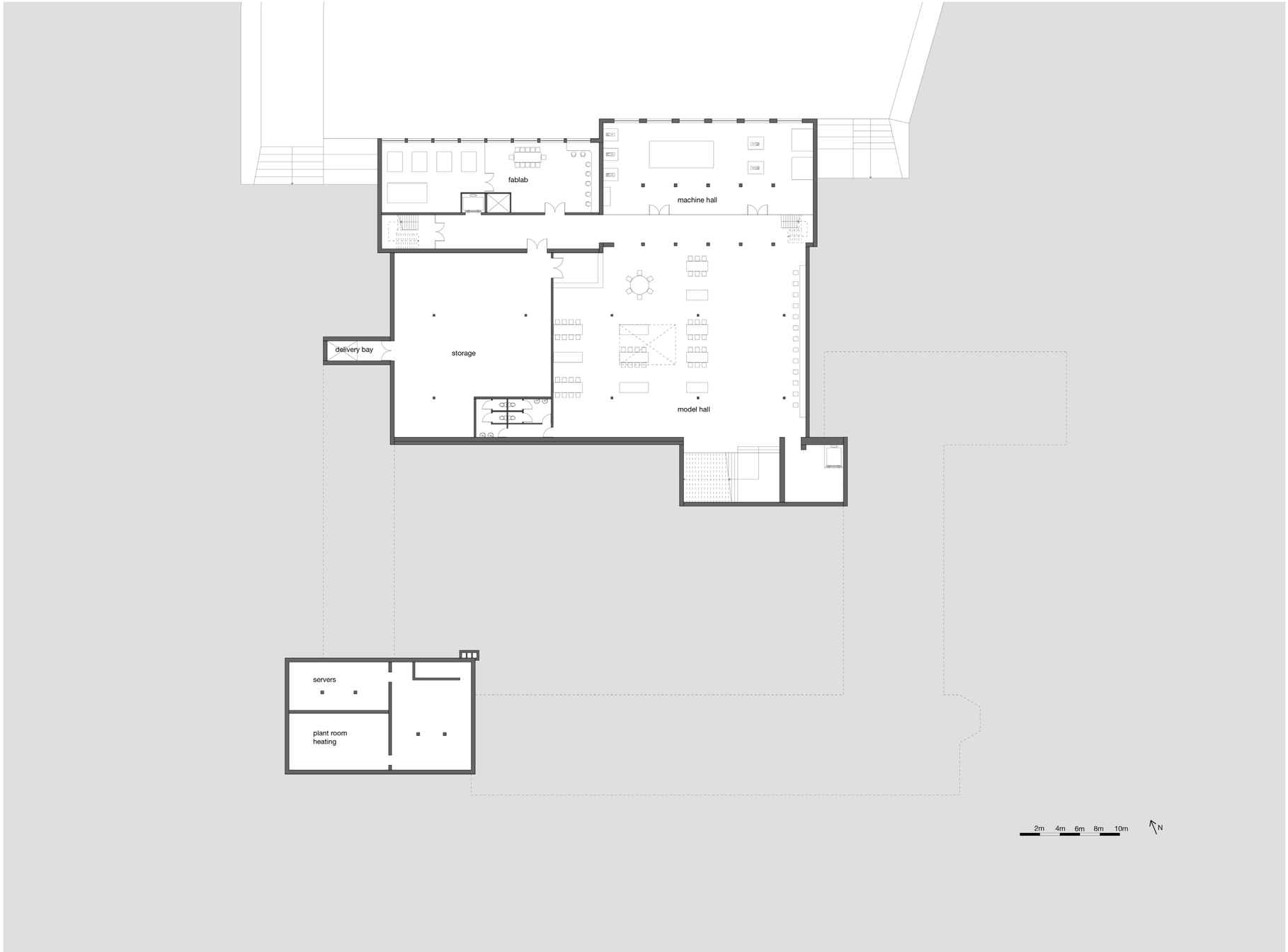
SPACE **+** LIGHT **+-** VOLUME **+**

CHOSEN OPTION

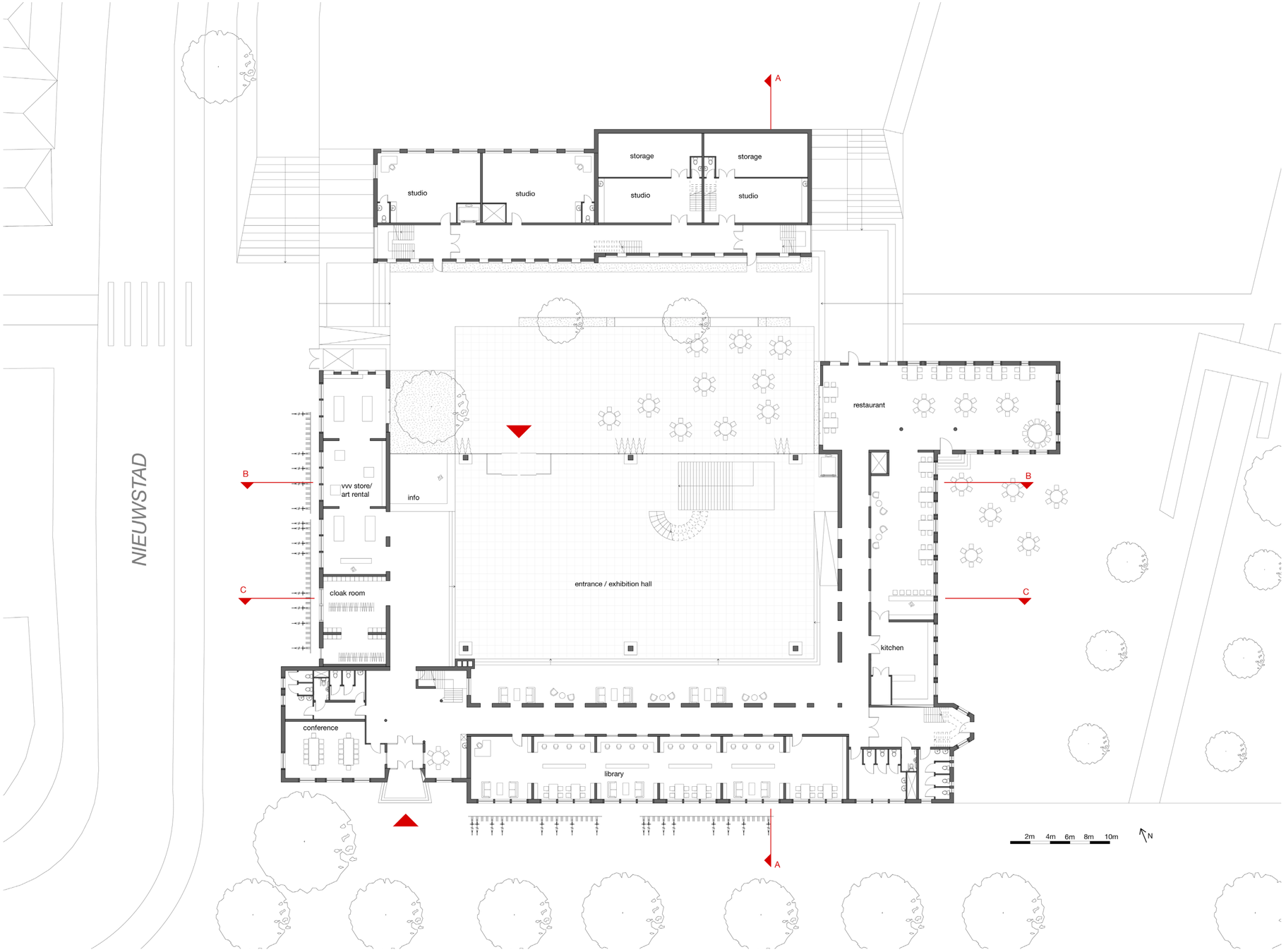




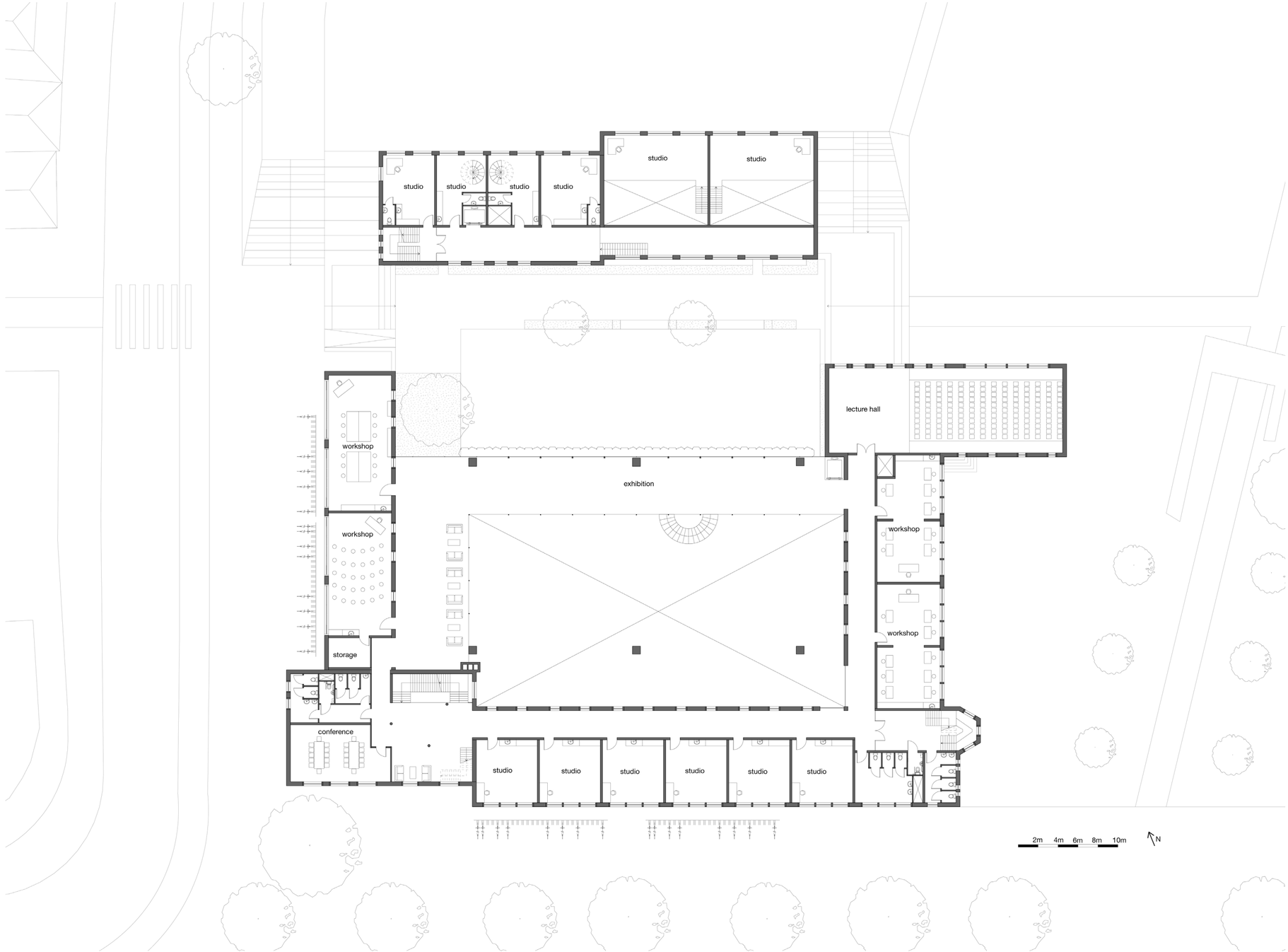
APPENDIX
FLOOR PLAN -1



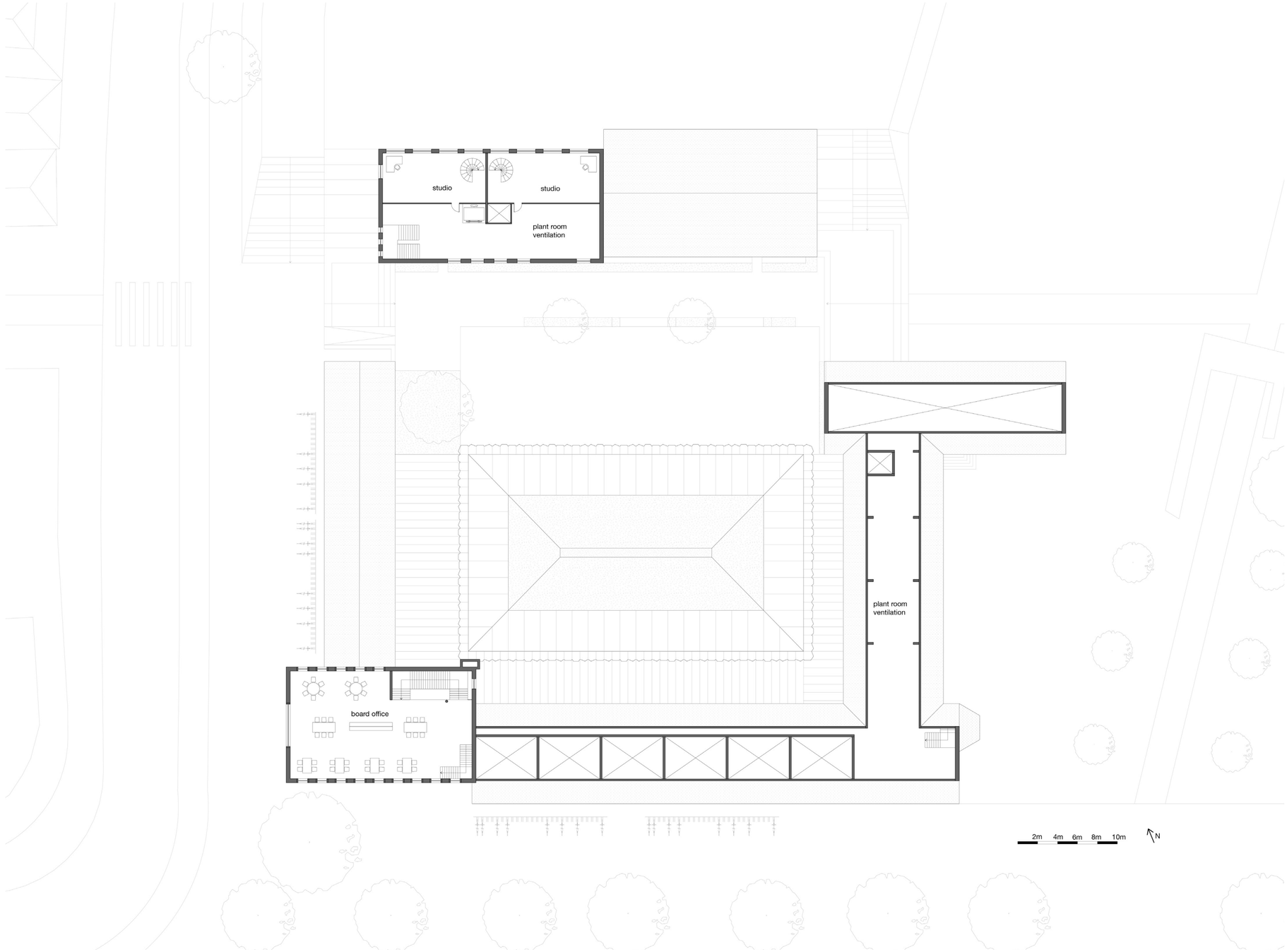
APPENDIX
FLOOR PLAN 00



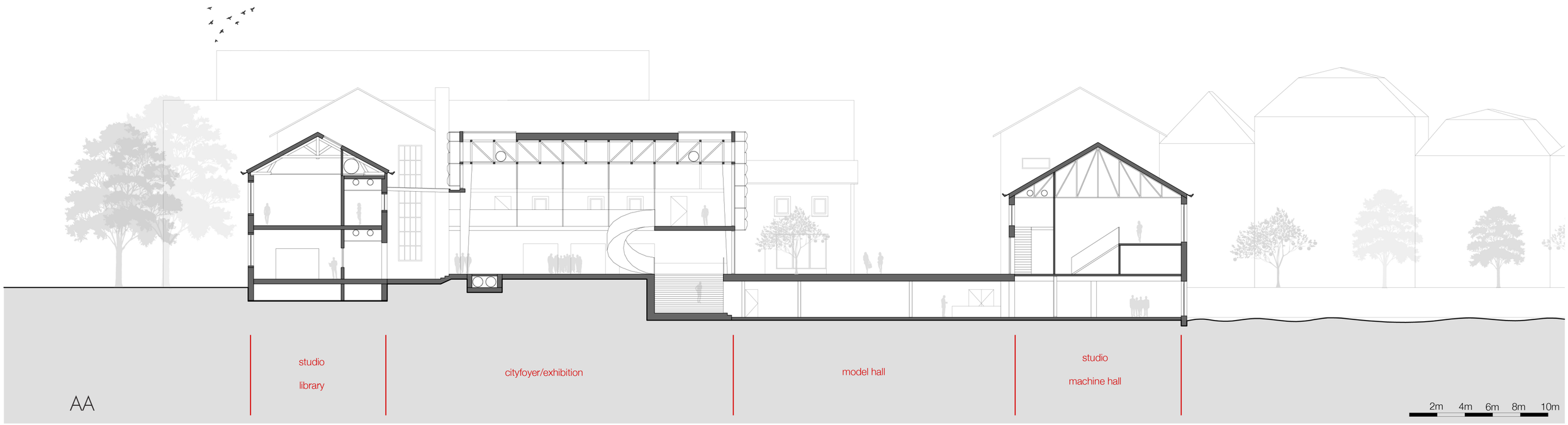
APPENDIX
FLOOR PLAN +1



APPENDIX
FLOOR PLAN +2



APPENDIX
SECTIONS



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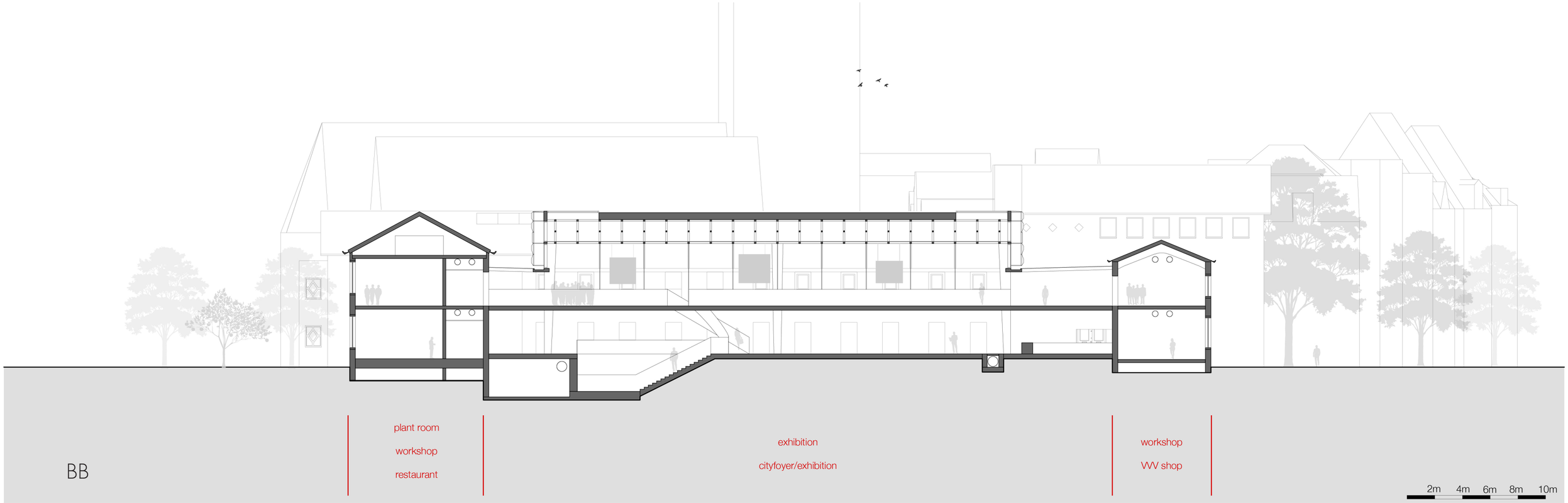
APPENDIX
SECTIONS



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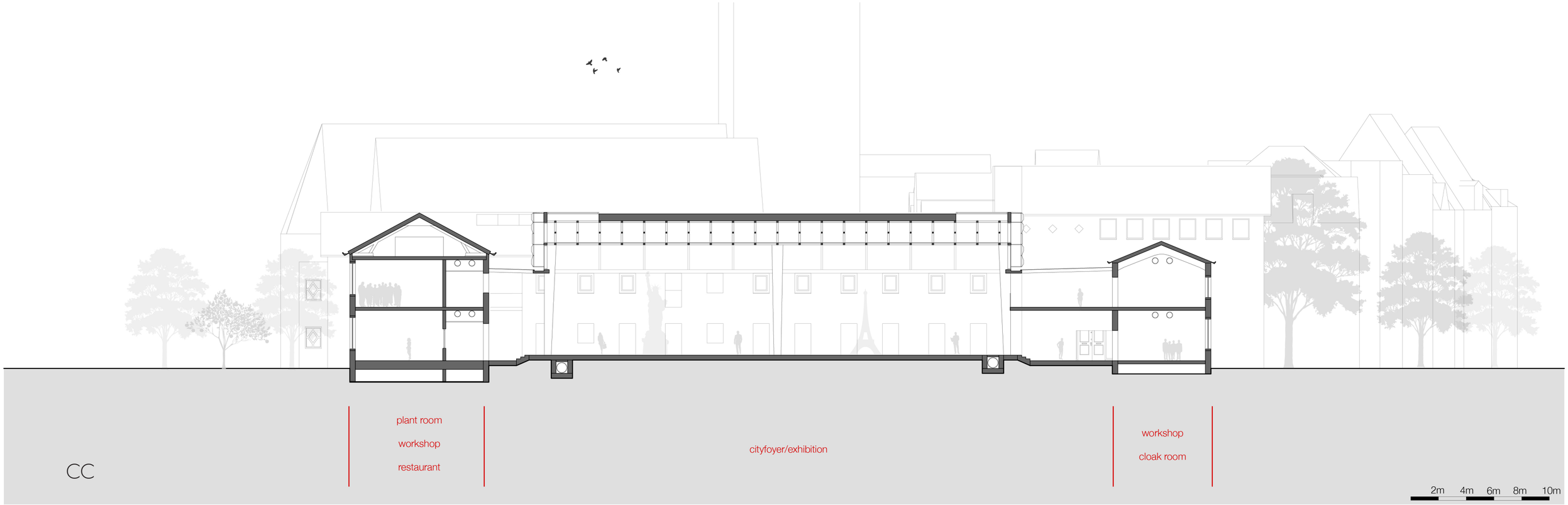
SECTIONS



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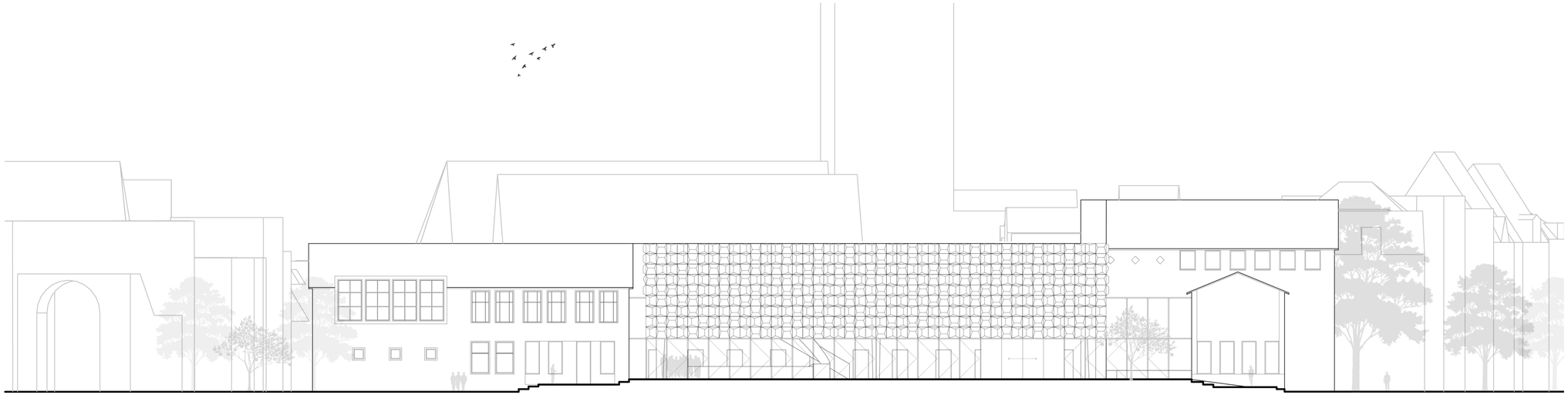
APPENDIX
FACADES



NORTH INTERIOR

NORTH EXTERIOR

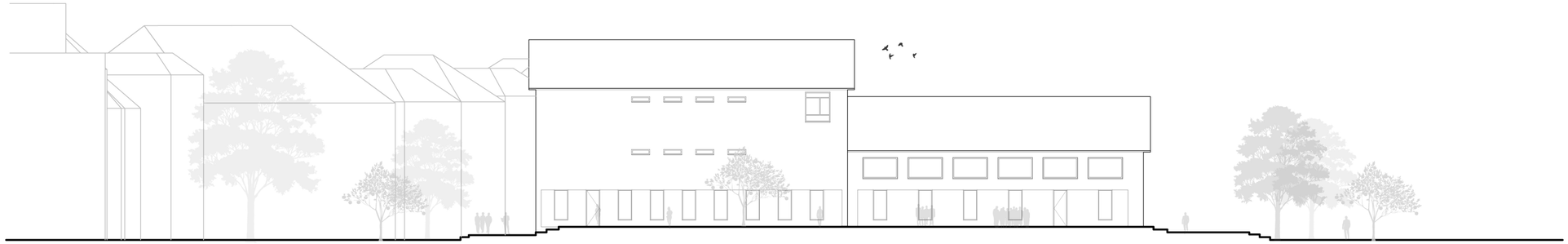
APPENDIX
FACADES

EAST

SOUTH EXTERIOR

2m 4m 6m 8m 10m

APPENDIX
FACADES



SOUTH INTERIOR

WEST

2m 4m 6m 8m 10m