

REACTIVATING ABATTOIR OF CASABLANCA

TOWARDS AN ARCHITECTURAL OPEN WORK



Meng Yang

P5 PRESENTATION 23-01-19

**METHODS AND ANALYSIS
GRADUATION STUDIO**

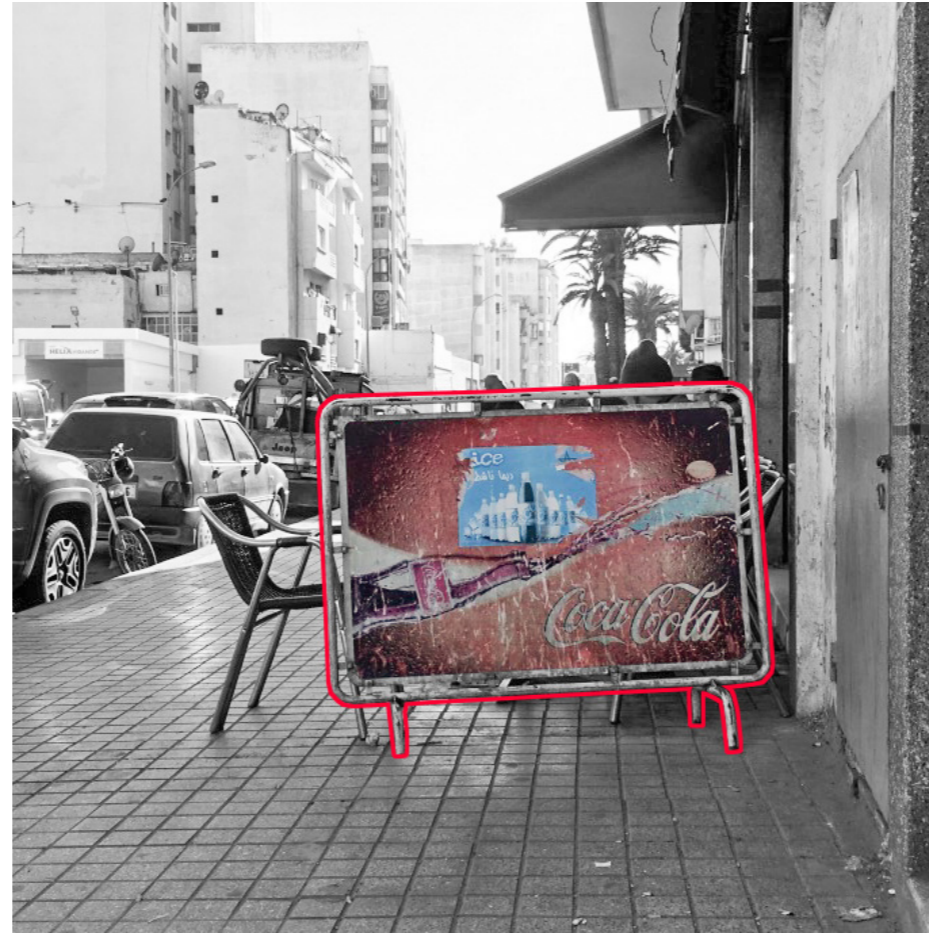
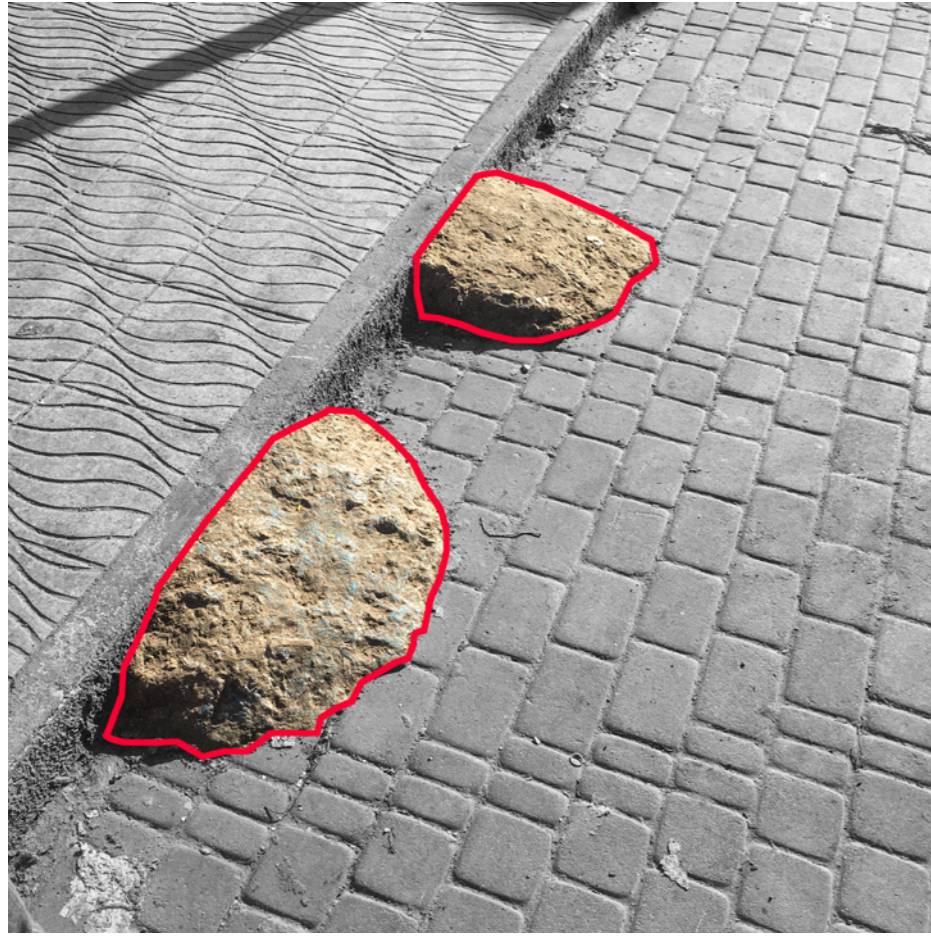
CASABLANCA | MOROCCO
ACADEMIC YEAR 18-19

- 01 From Fieldwork to Research Question**
- 02 From Analysis to Intervention Strategy**
- 03 On Lightness: A Layering Approach**
- 04 On Lightness: Two Pilot Projects**

PART 1

From Fieldwork to Research Question

Lessons from P1 Research - ADHOCISM AND SPATIAL CORRECTION

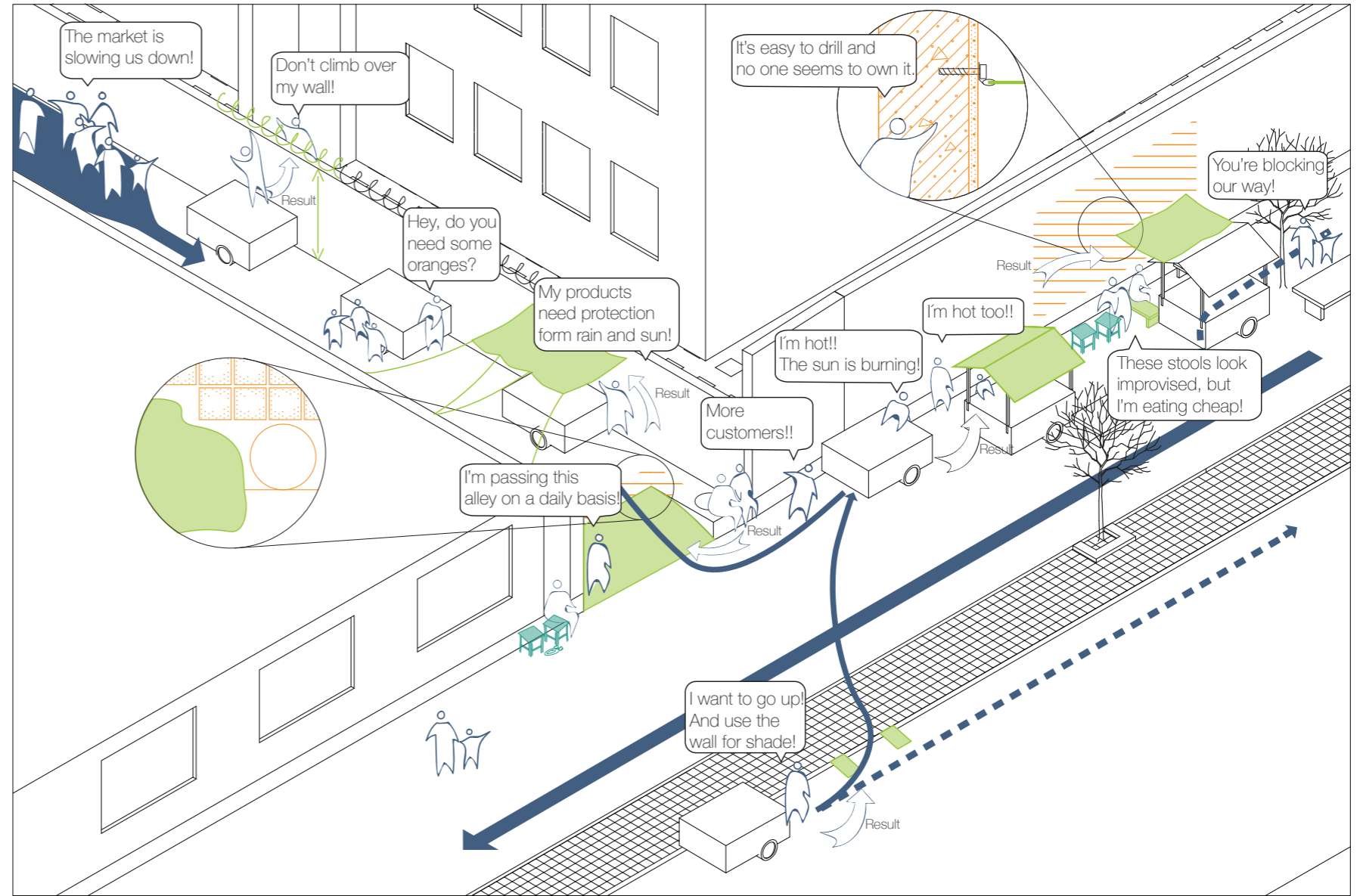


ADHOCISM: A PURPOSE IMMEDIATELY FULFILLED BY RESOURCES THAT ARE AT HAND - CHARLES JENCKS

Lessons from P1 Research - NEGOTIATIONS AND COMPLEXITIES

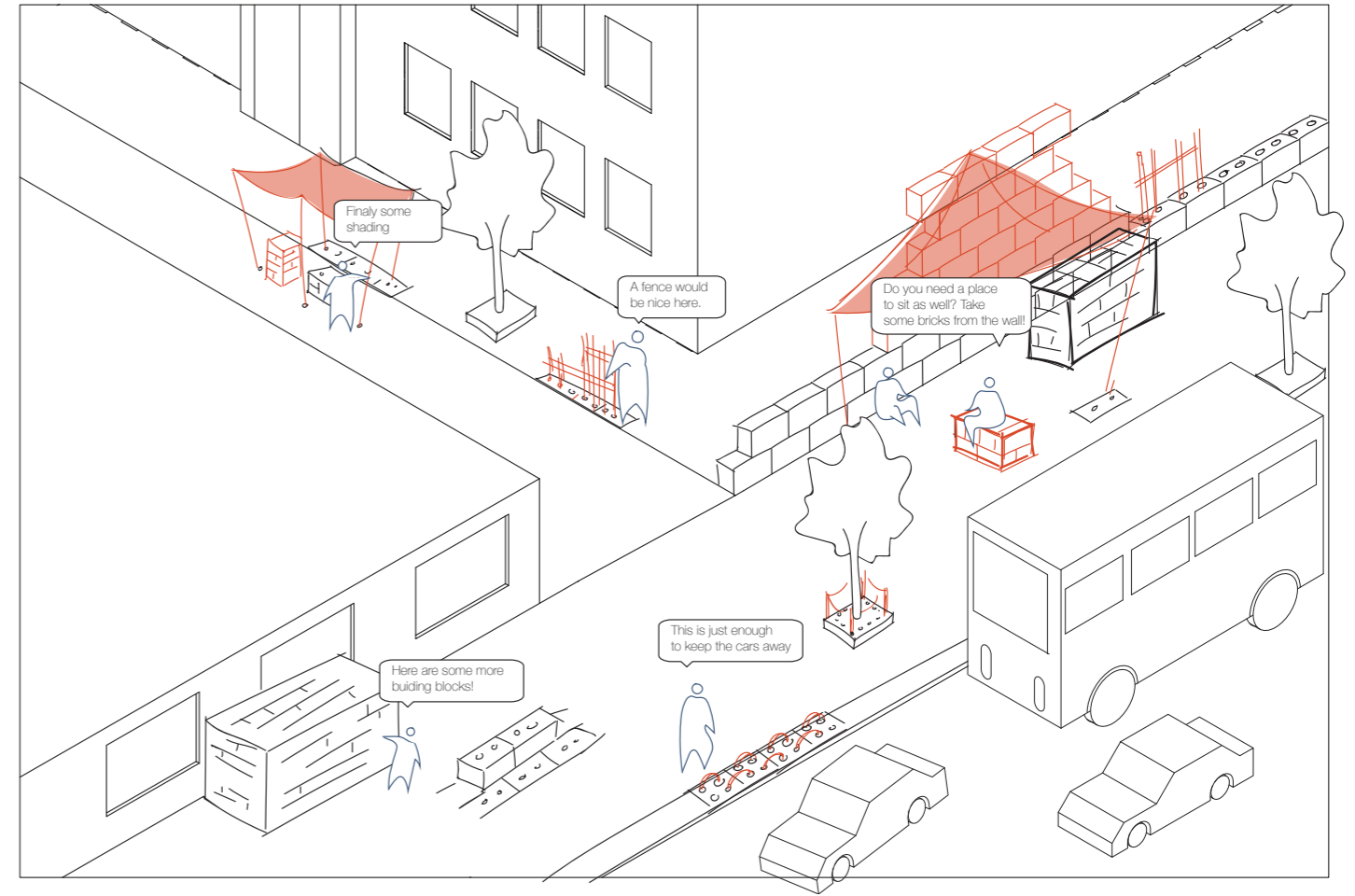
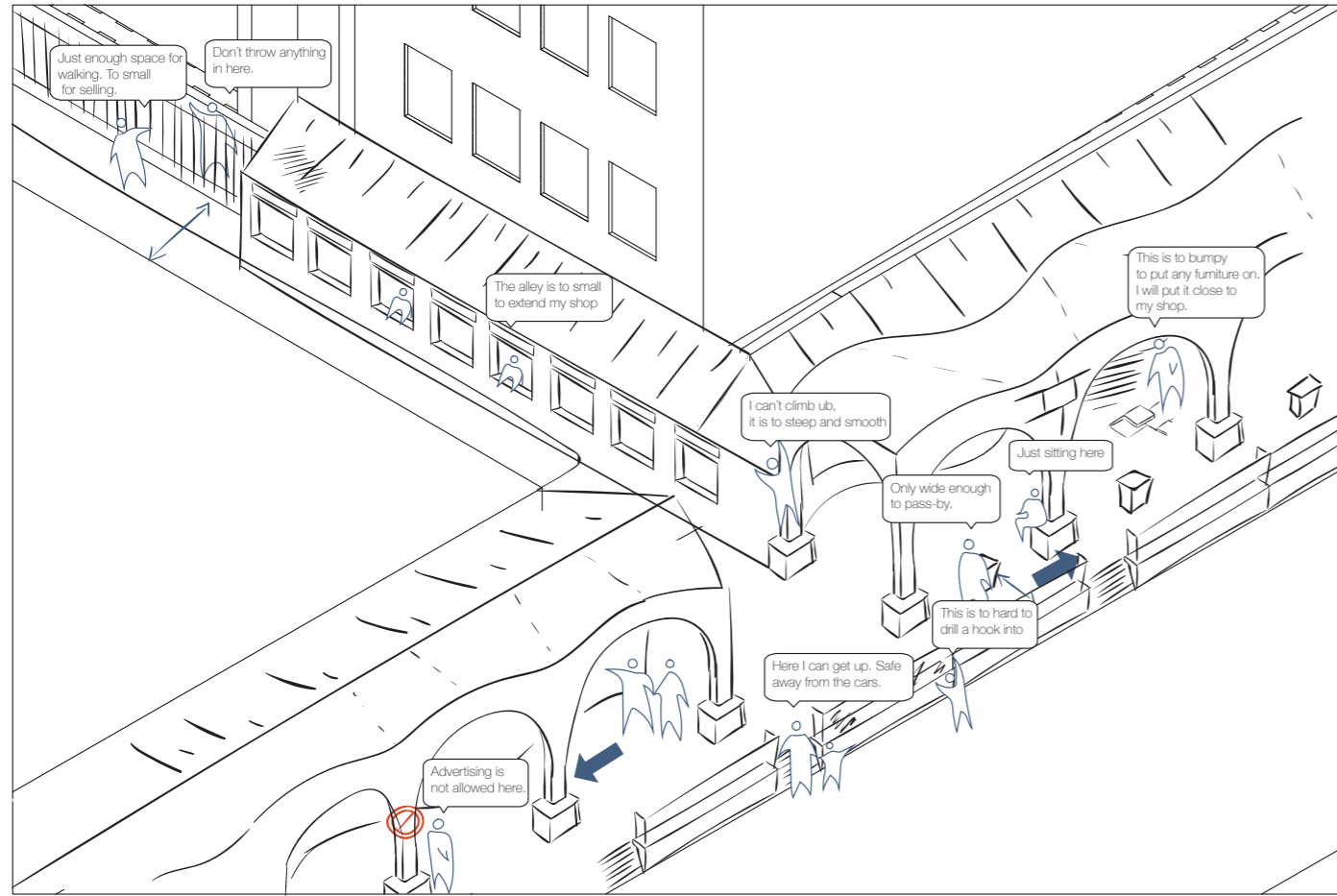


Lively Everyday Scene



The Hidden Deficiencies

Lessons from P1 Research - NEGOTIATIONS AND COMPLEXITIES

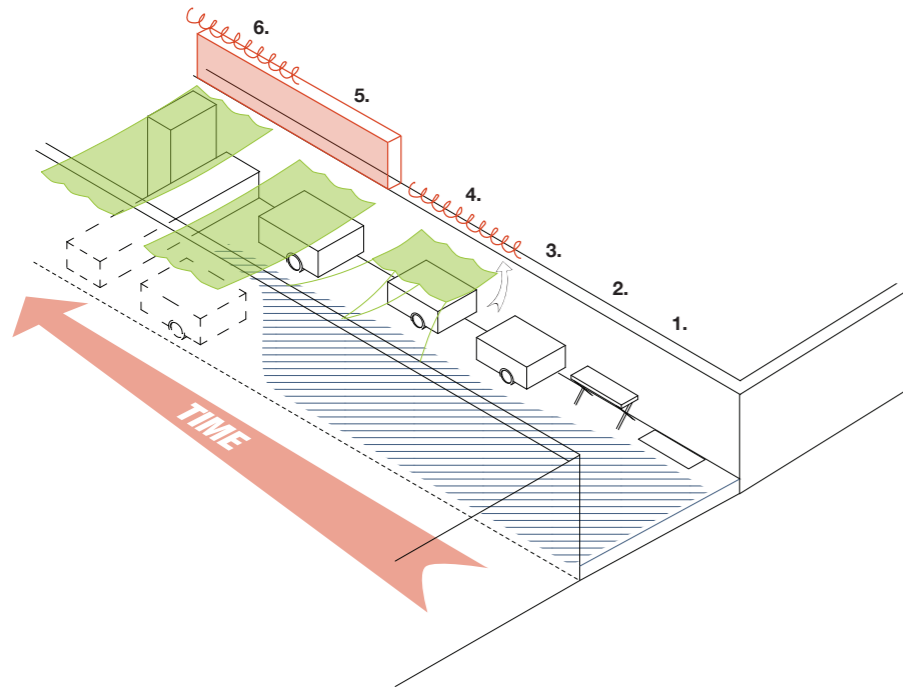


Different Design Scenarios Towards One Everyday Setting

OPEN TO INTERPRET:

A DESIGN IN WHICH DIFFERENT ACTORS IN THE ENVIRONMENT COULD FULFILL THEIR VARIOUS INTERESTS, METHODS OF USES, WITHOUT SIGNIFICANTLY INTERVENE UPON EXISTING SITUATION

Lessons from P1 Research - FROM BALANCE TO RE-BALANCE



Current as A Balance Situation



Re-balanced Situation: Bookstore Dominicanen

Lessons from P1 Research - SITE

ARCHITECTS:
Georges-Ernest Desmarest

TIME OF CONSTRUCTION:
1919-1922

Function:
Slaughterhouse, livestock market

TOTAL SURFACE:
50,000 square meters

CONSTRUCTION AREA:
20,000 SQUARE METERS

FEATURES:
Modern industrial complex with high hygiene and animal health standards

An enclave from surrounding neighborhood

FUTURE VISION:
A CULTURE PARK



Ancient Abattoir

Research Question

HOW TO REACTIVATING THE ABATTOIR WITH A DESIGN OPEN TO INTERPRET?

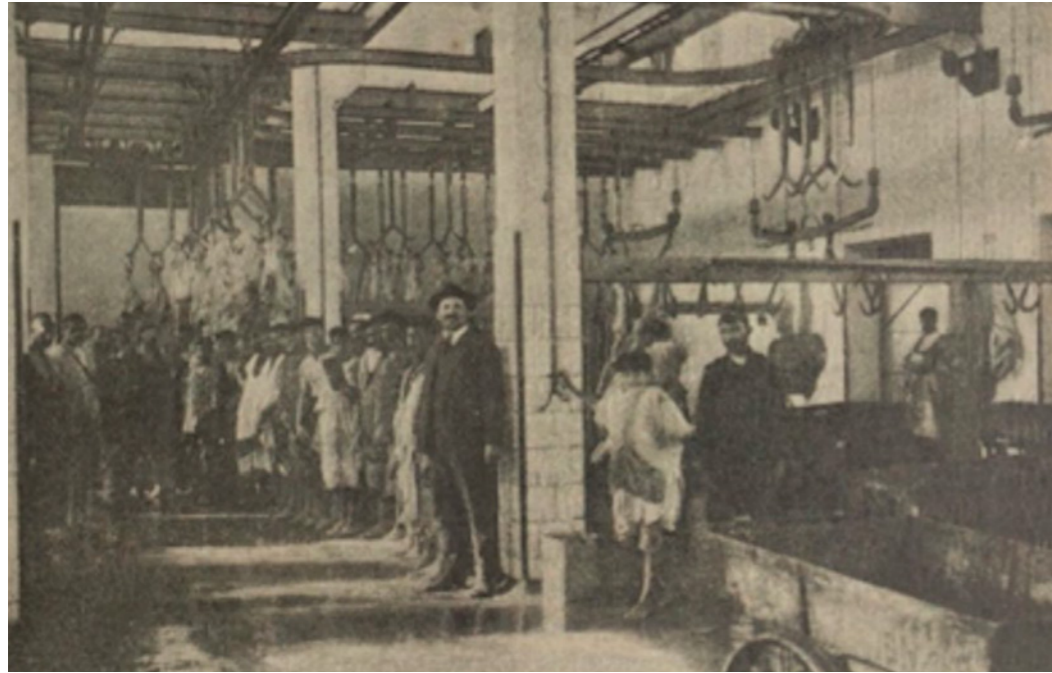
HOW TO TRANSFORM ABATTOIR INTO A PLACE WHERE THE INTERESTS OF DIFFERENT ENTITIES, OCCASIONAL VISITORS, LOCAL CULTURE EXPERTS AND RESIDENTS FROM SURROUNDING COMMUNITIES, COULD BE FULFILLED AT THE SAME TIME?

HOW TO MAKE THE TRANSFORMATION OPEN TO FUTURE'S RE-PROGRAMMING AND ADJUSTMENTS WITHOUT GREATER PHYSICAL ALTERNATION?

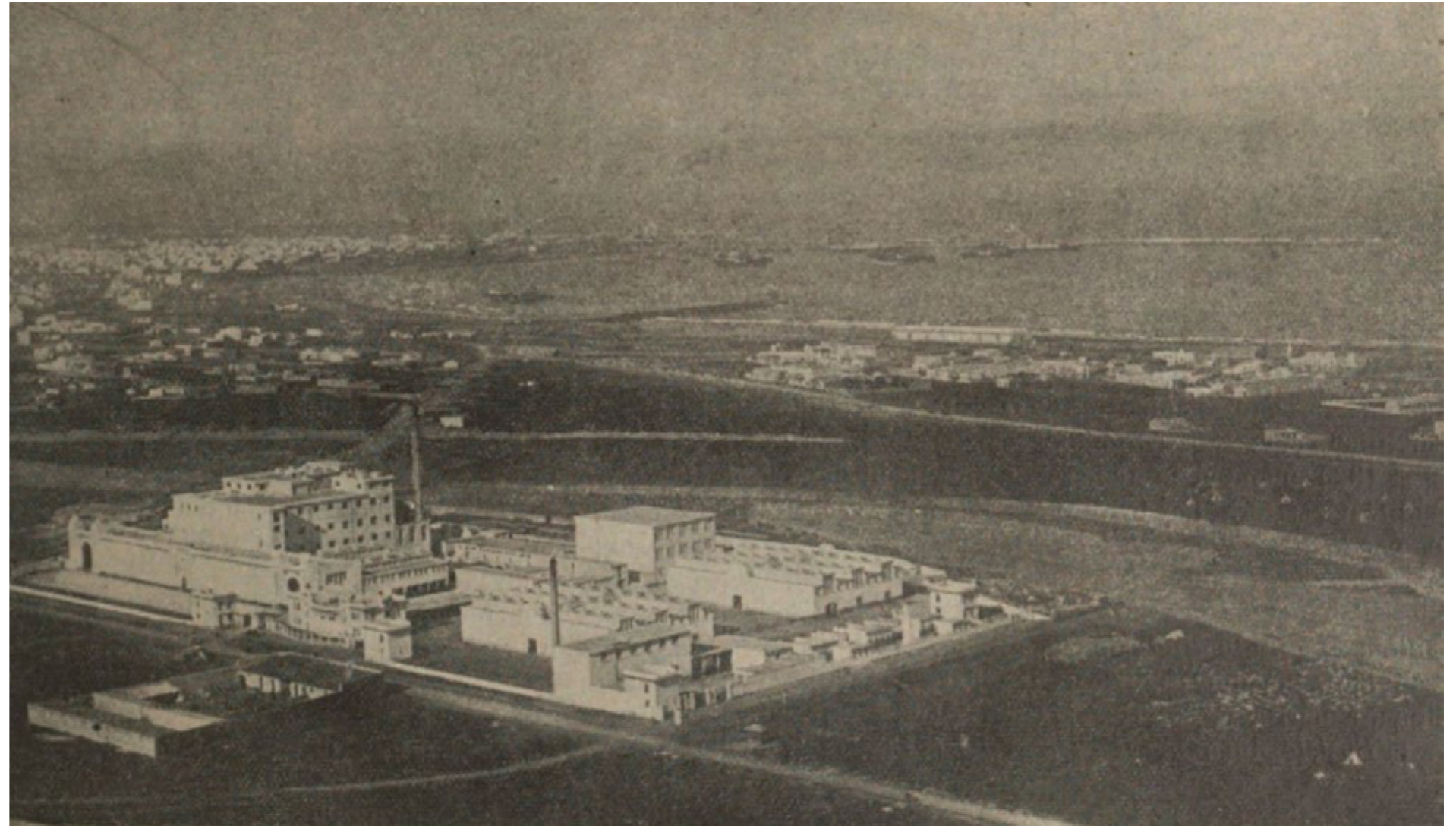
PART 2

From Analysis to Intervention Strategy

ANCIENT ABATTOIR - HISTORY



Slaughterhouse in 1930s



Aerial View in 1920s

ANCIENT ABATTOIR - LOCATION



Abandoned Slaughterhouse

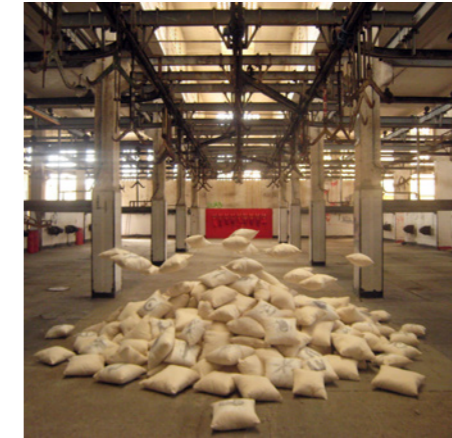


LOCATION

ANCIENT ABATTOIR -FUTURE VISIONS

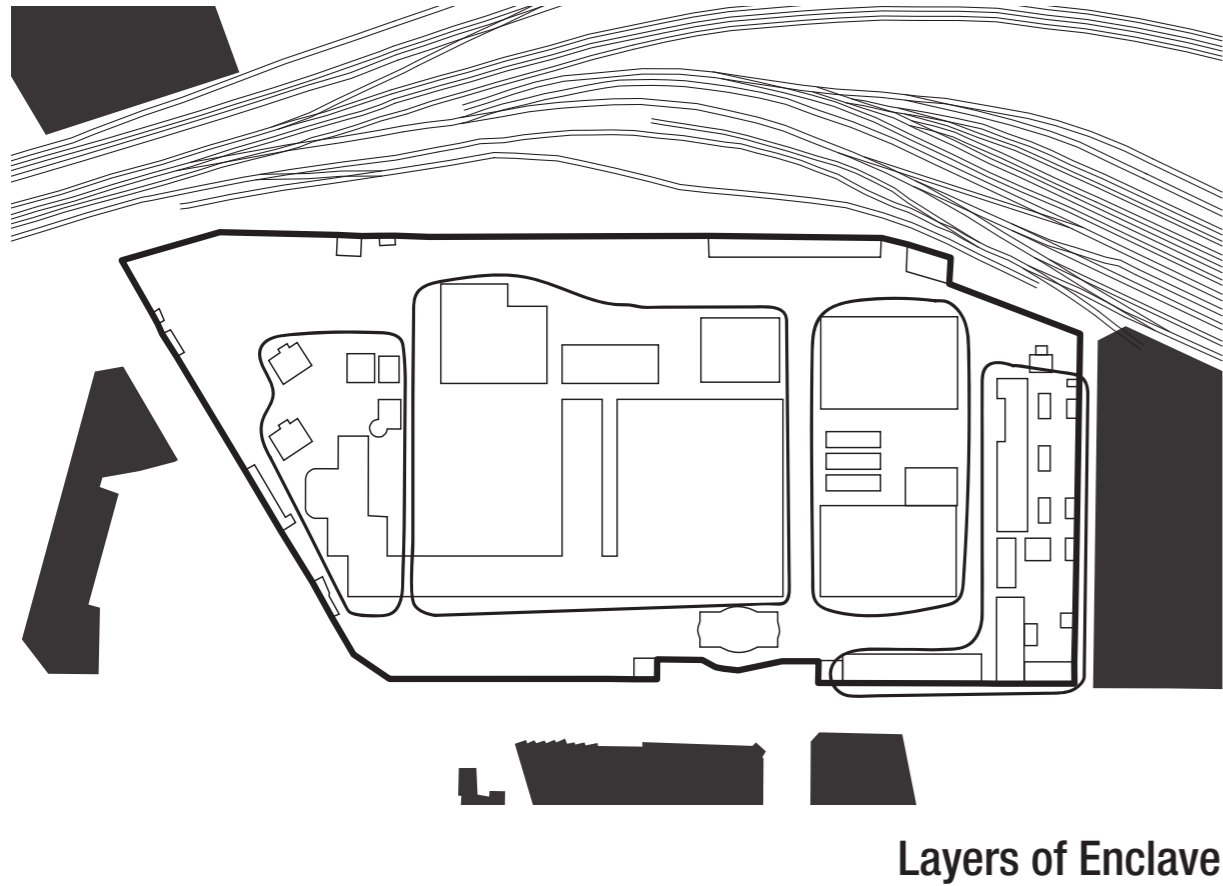


A Culture Park

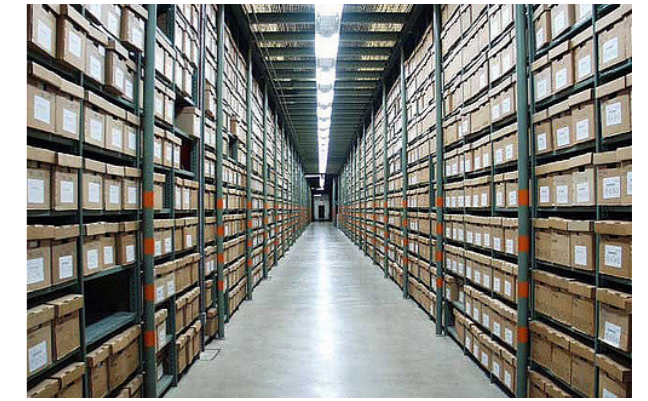
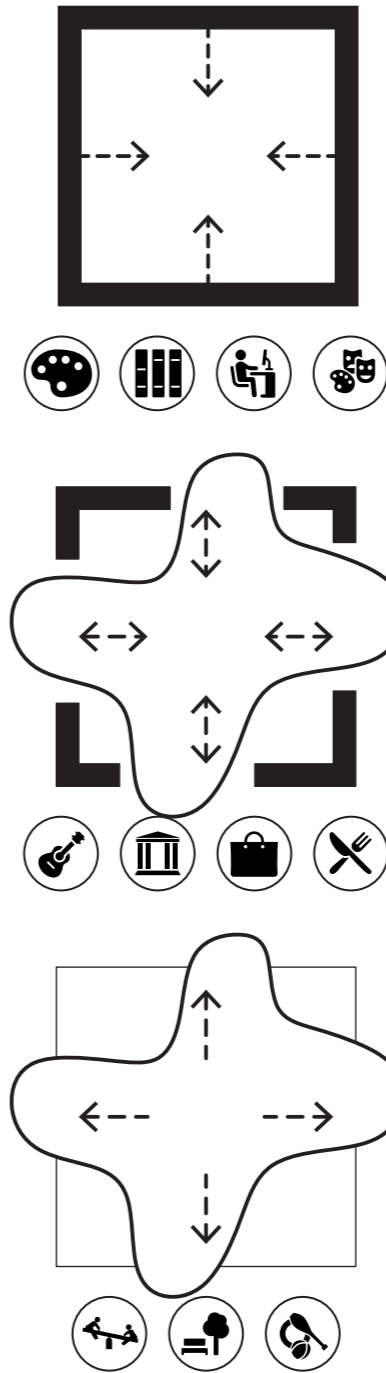


A Place for Various Users and Needs

PAIRS OF CONFLICTS - ENCLAVE VS. THREE TYPES OF SPACE



VS.



Introvert Space



In between Space



Extrovert Space

PRESENT SITUATION

SPATIAL VISION

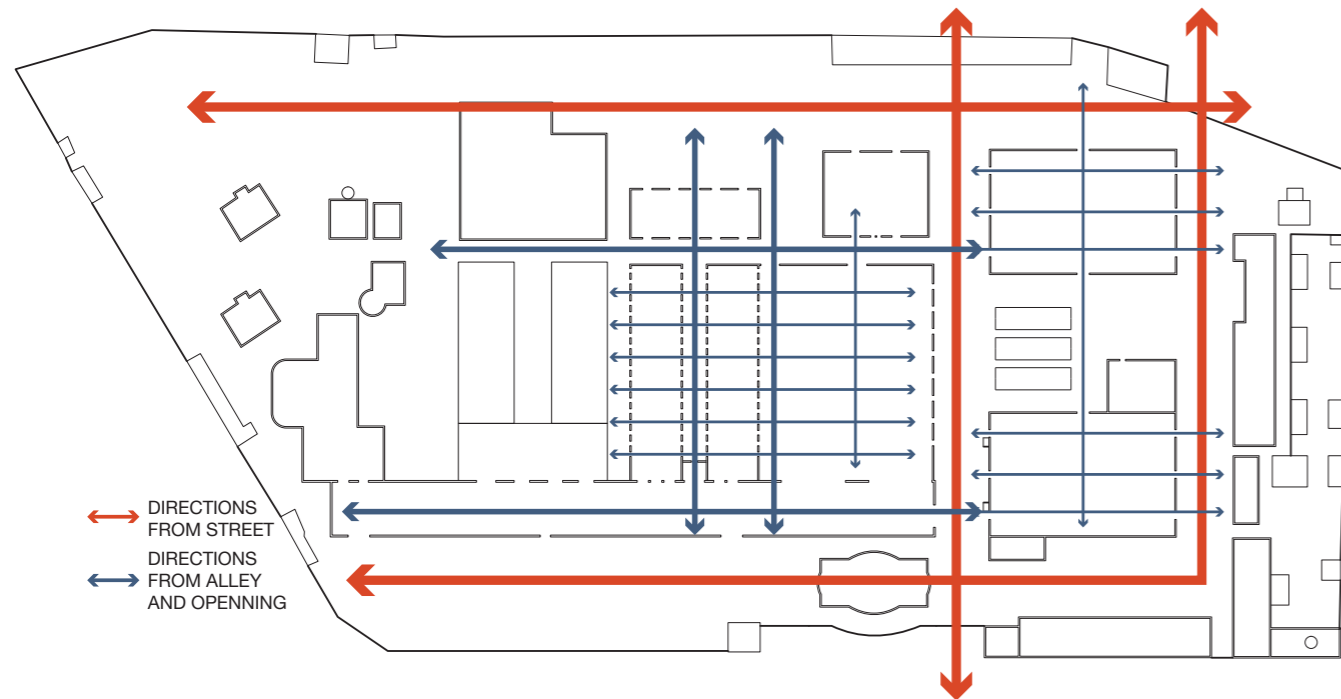
From Fieldwork to Research Question

From Analysis to Intervention Strategy

On Lightness: A Layering Approach

On Lightness: Two Pilot Projects

PAIRS OF CONFLICTS - LINEAR SPACE VS. OPEN SPACE



Linear Space with Strong sense of Direction

VS.



Open Space for Users to Explore and Stay

PRESENT SITUATION

From Fieldwork to Research Question

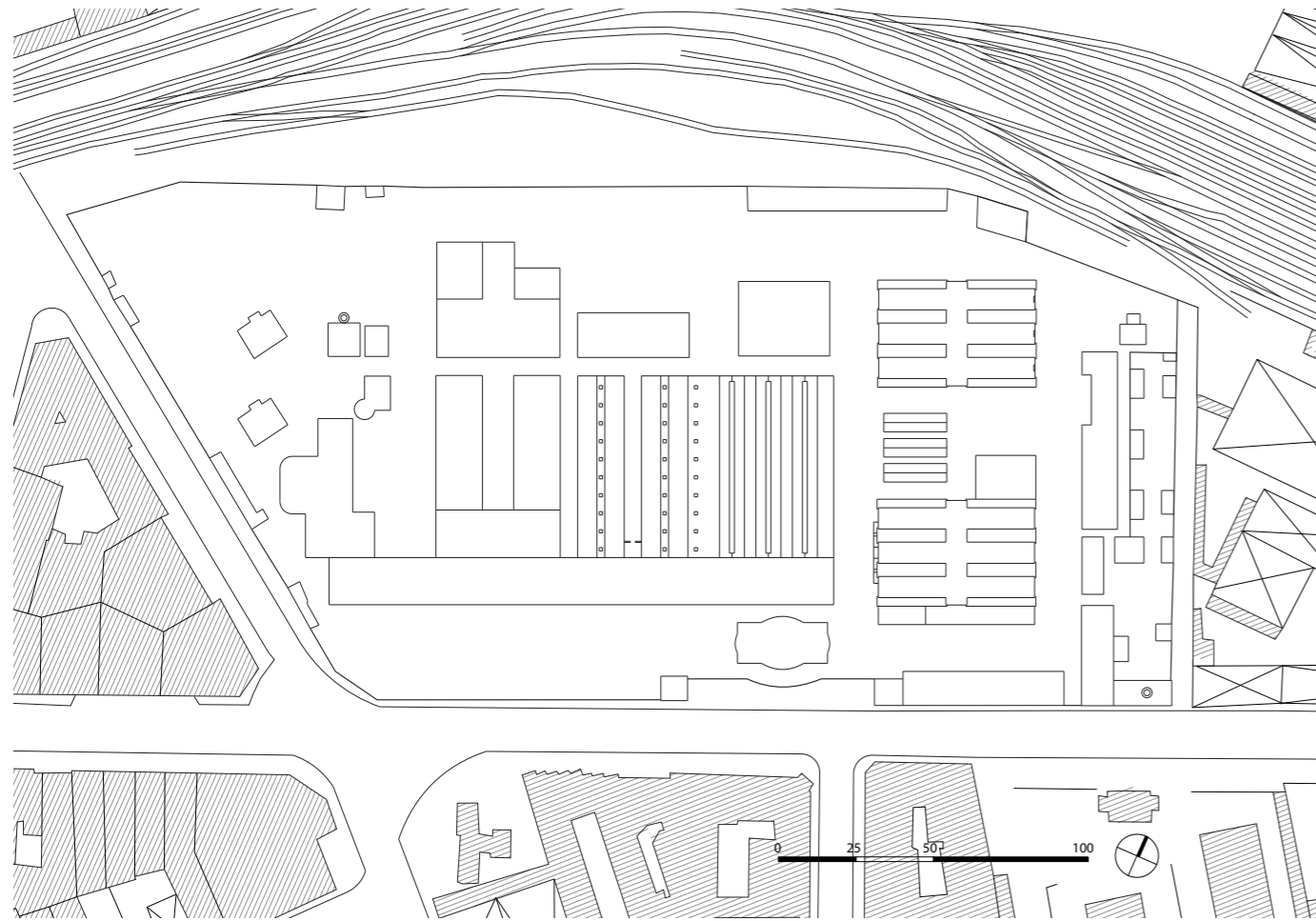
From Analysis to Intervention Strategy

SPATIAL VISION

On Lightness: A Layering Approach

On Lightness: Two Pilot Projects

PAIRS OF CONFLICTS - VAST FLOOR AREA VS. HUMAN SCALED SPACE



Masterplan of Abattoir

VS.



Abattoir Overlay with Venice City

PRESENT SITUATION

From Fieldwork to Research Question

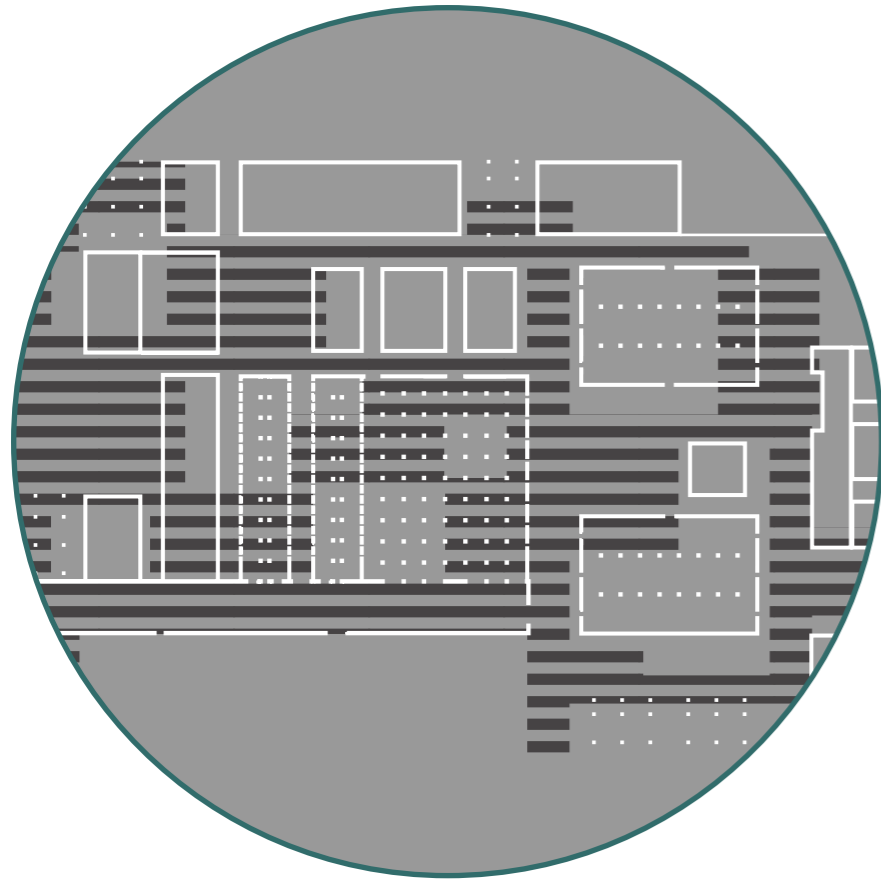
From Analysis to Intervention Strategy

SPATIAL VISION

On Lightness: A Layering Approach

On Lightness: Two Pilot Projects

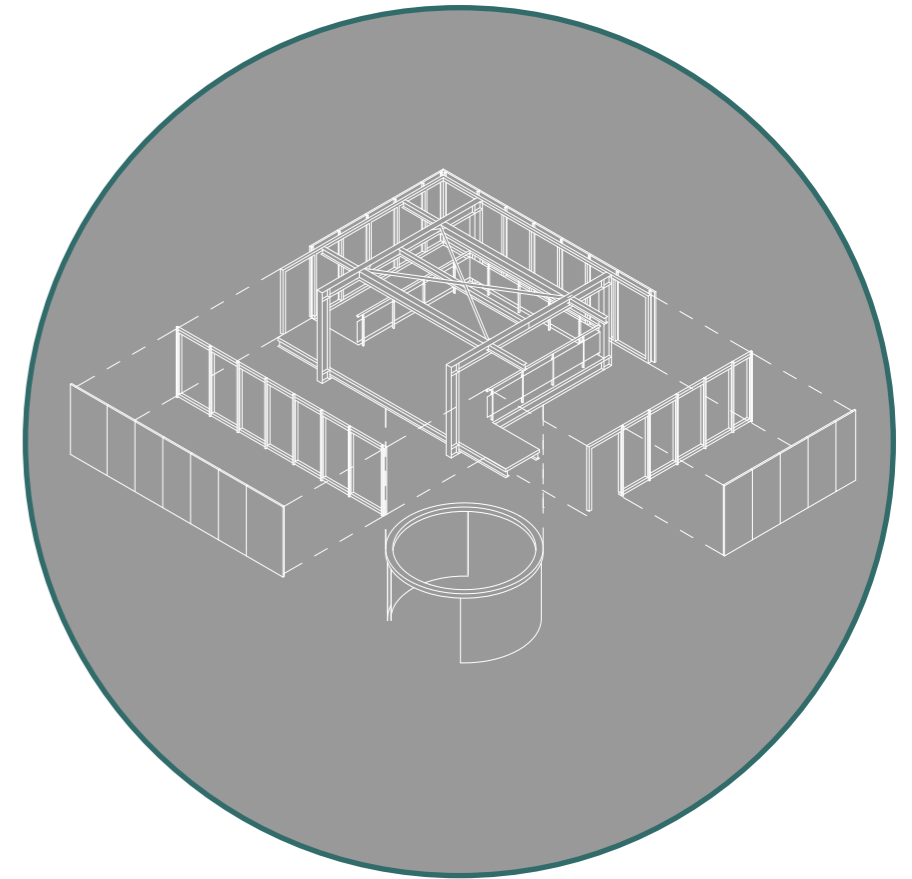
ON LIGHTNESS -INTERVENTION STRATEGY



Spatial Mobility:
Lack of Heaviness On Movement



Constructing Void:
Subversion of Spatial Typology;
The Quality of Little Heaviness



Light Touch:
A Prefabricated Modular Approach

PART 3

On Lightness: A Layering Approach

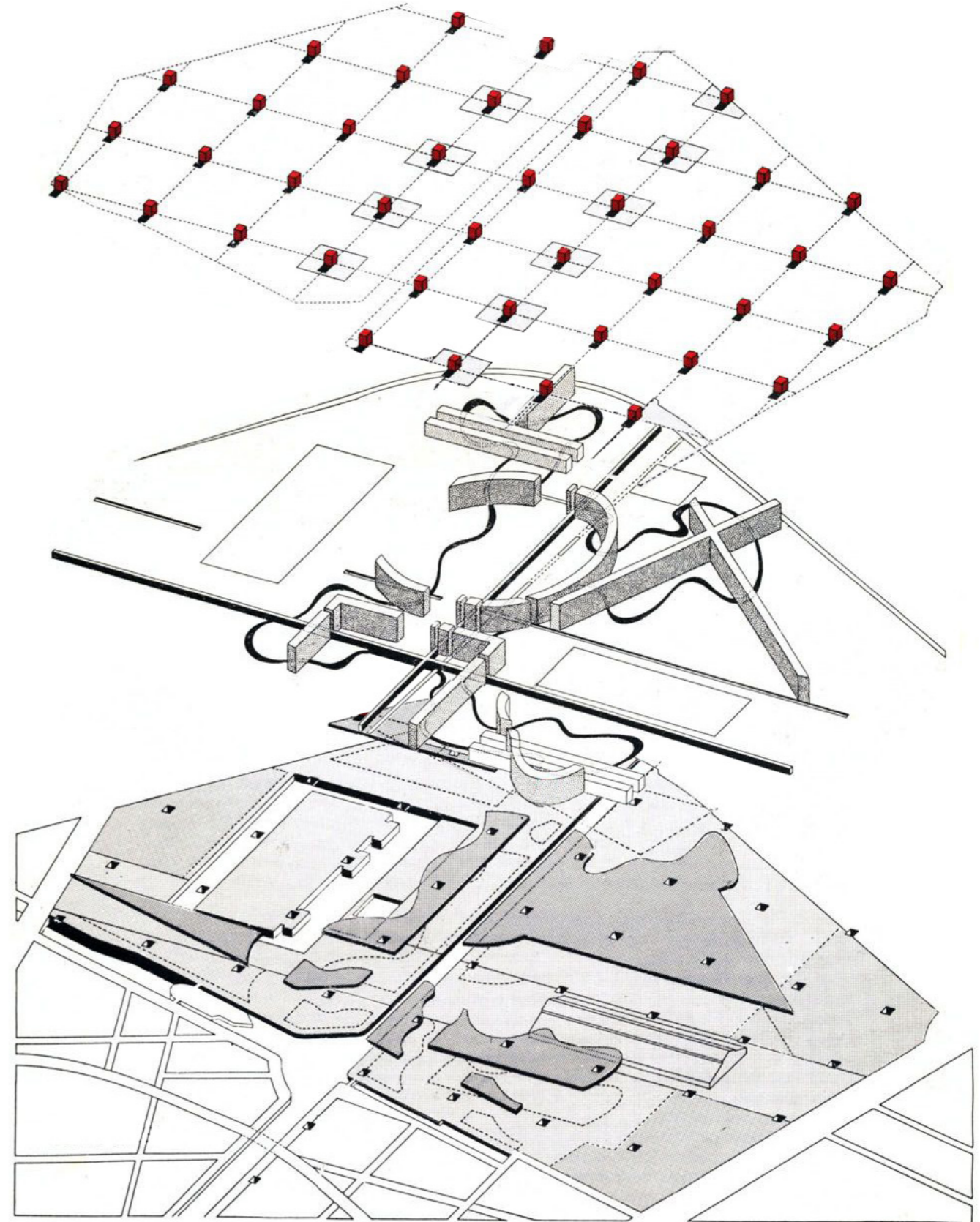
PRECEDENT STUDY - PARC LA VILLETTE



POINTS:
Programmed events;
a "rigid" conceptual frame

LINES:
Movement as a way of
experience;
Linkages between layers

SURFACE:
Connecting surrounding
neighborhood;
Changing for
unprogrammed events



PRECEDENT STUDY - ENGLISH GARDEN



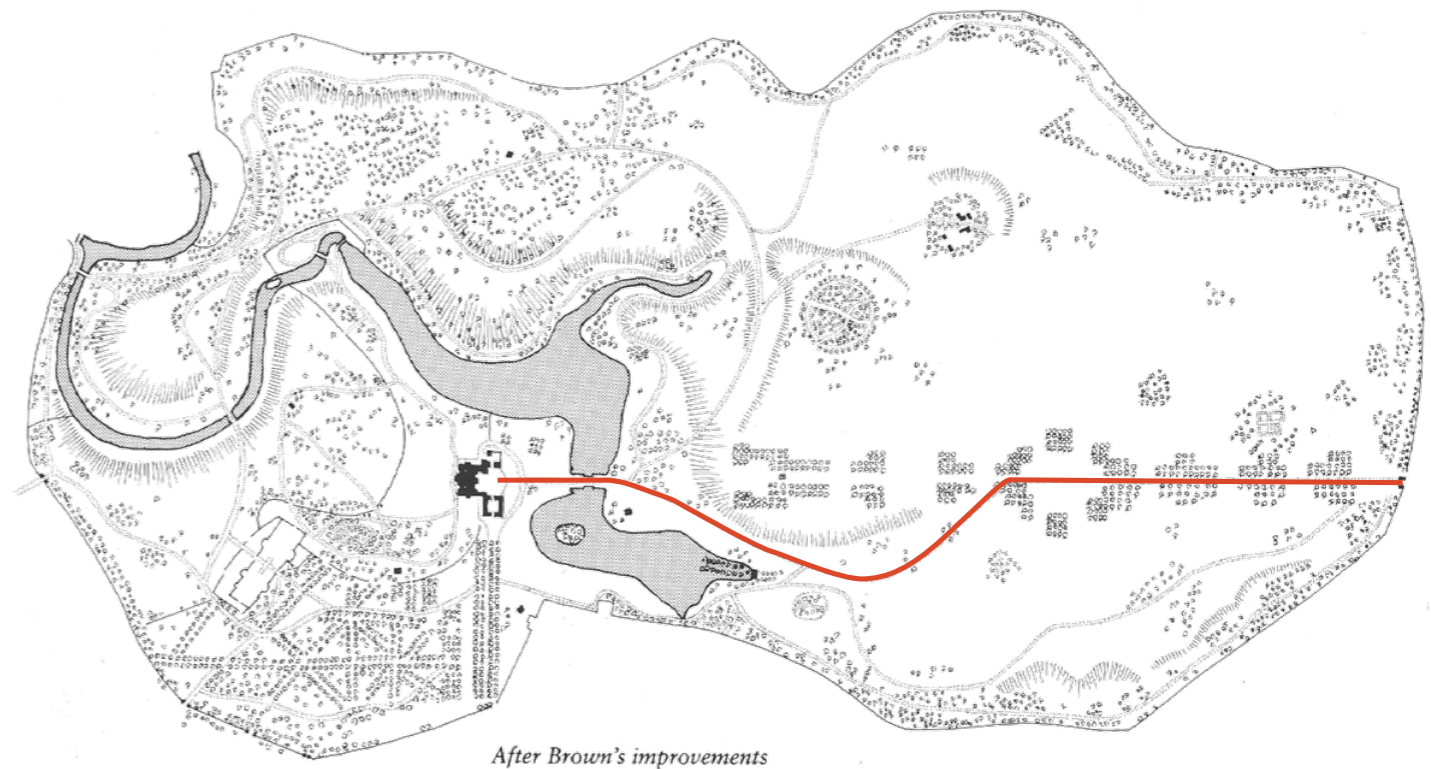
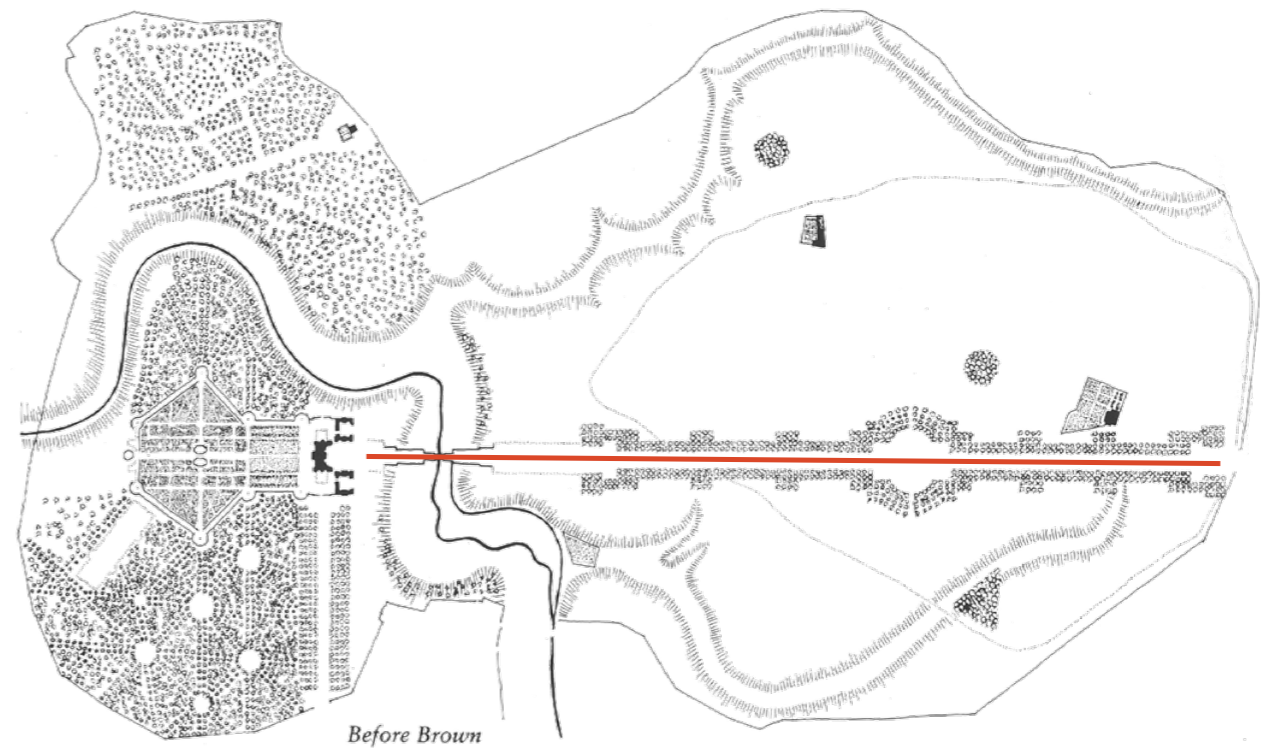
Compositional Rule:

Different layers follow different pattern; create the picturesque view

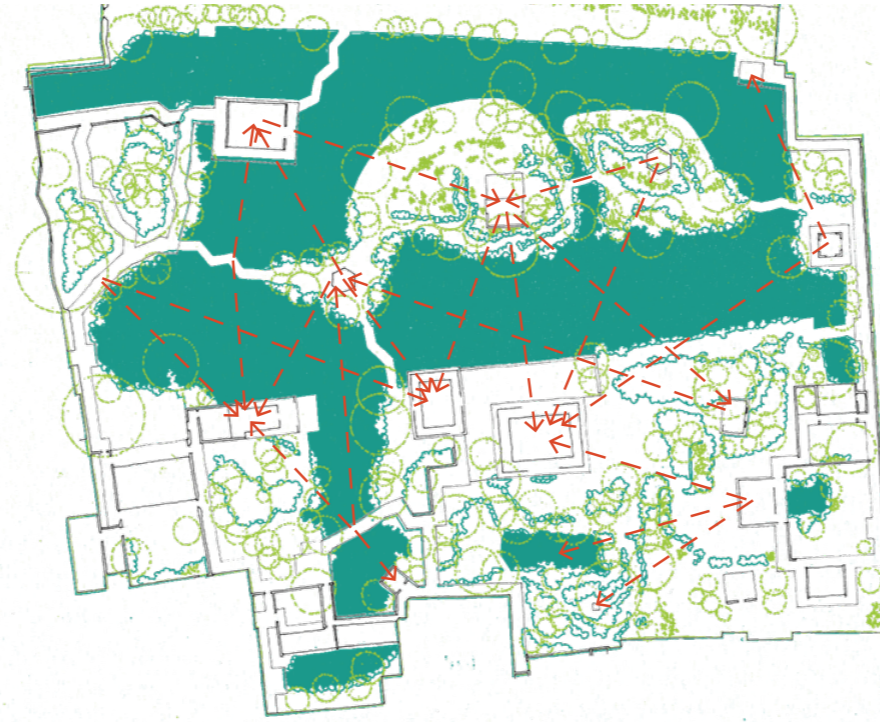
view and to be viewed,
view change while walking

multi-way of experience

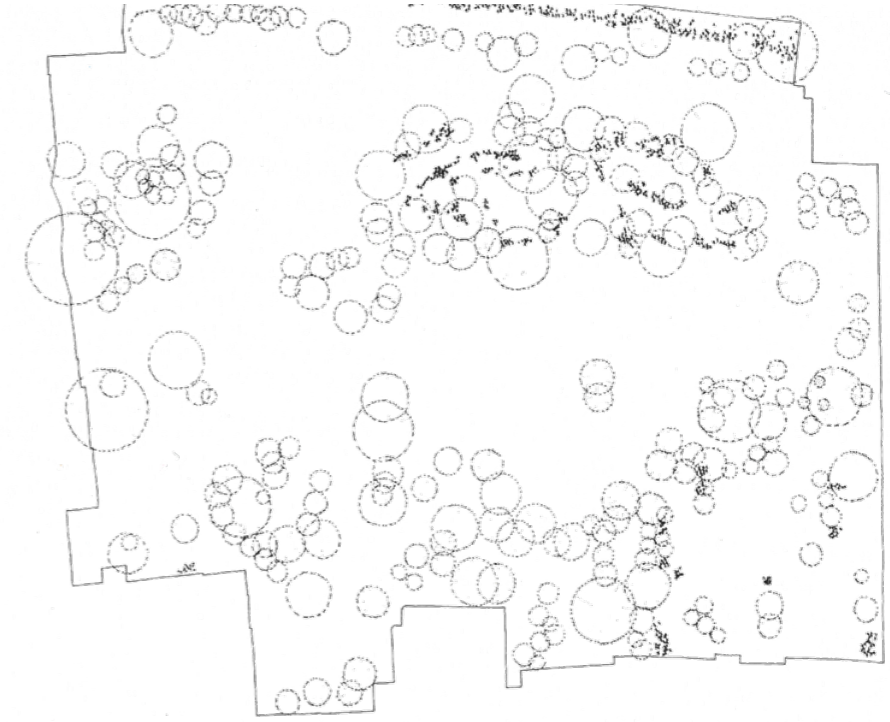
Lively, encourage exploring



PRECEDENT STUDY - CHINESE GARDEN



Plan



Planting

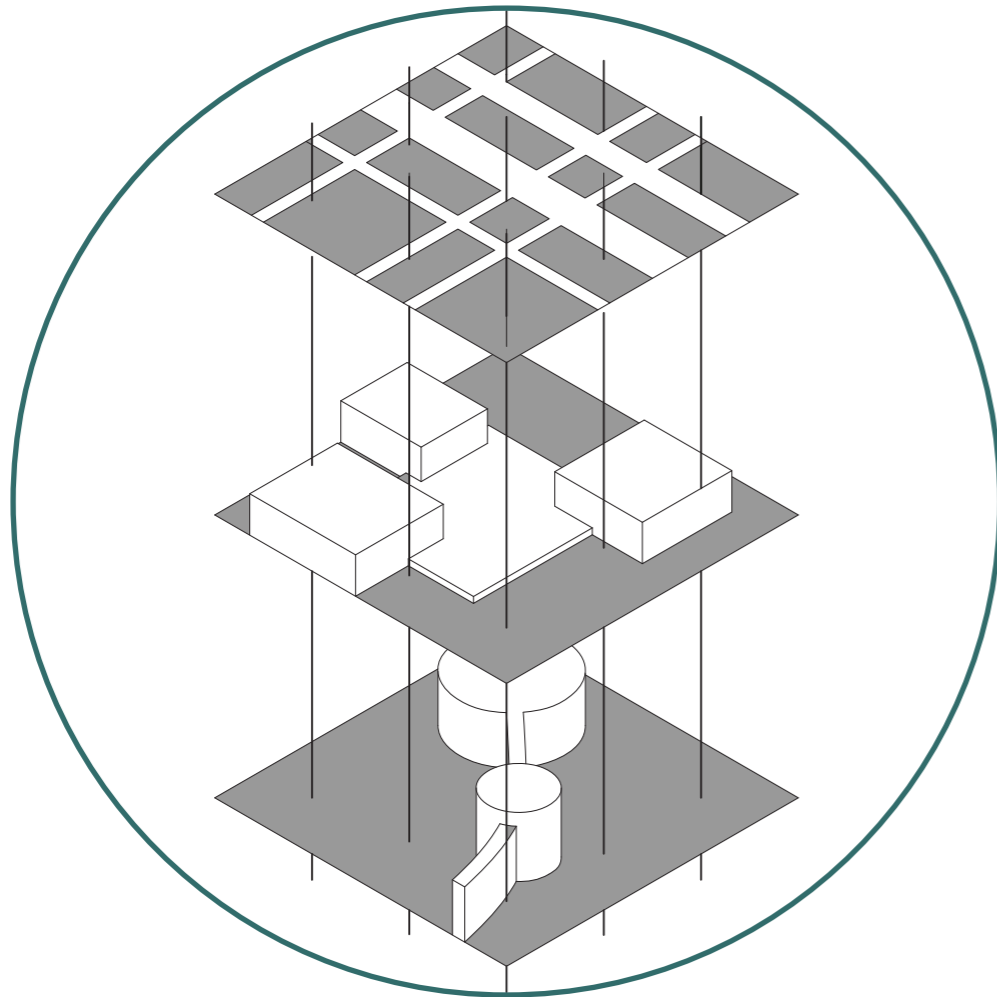


Rocks and water

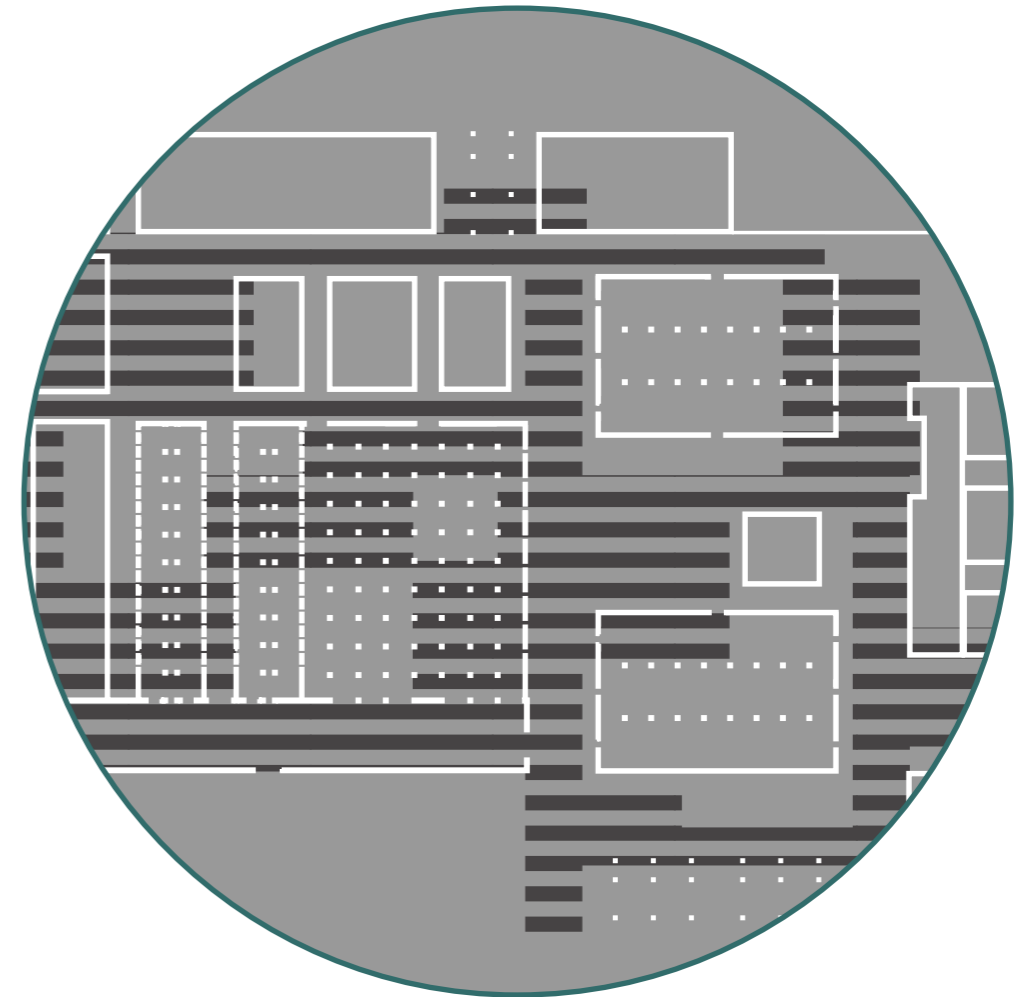


Pavilions and covered walkways

ON LIGHTNESS -CONSTRUCTING A LAYERING SYSTEM

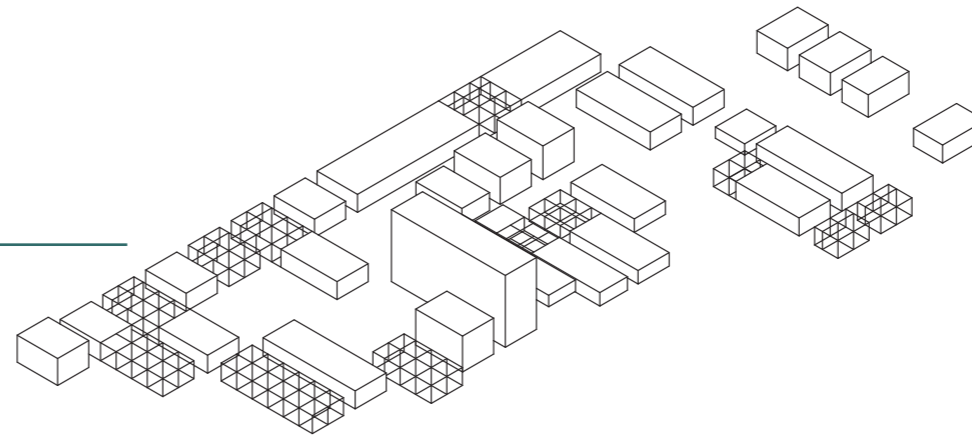


A LAYERING APPROACH

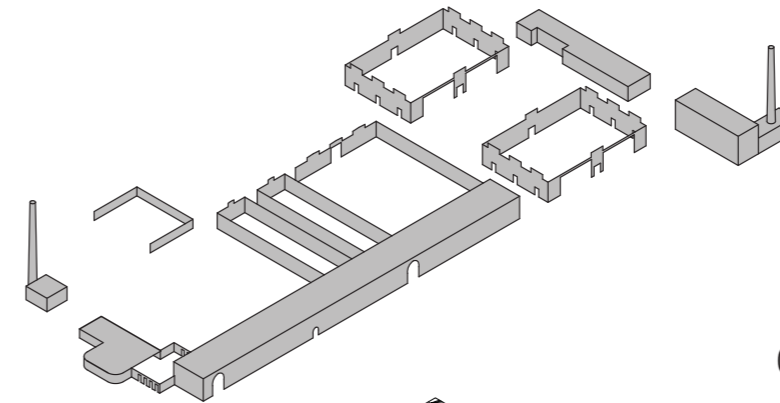


DISLOCATION BETWEEN LAYERS

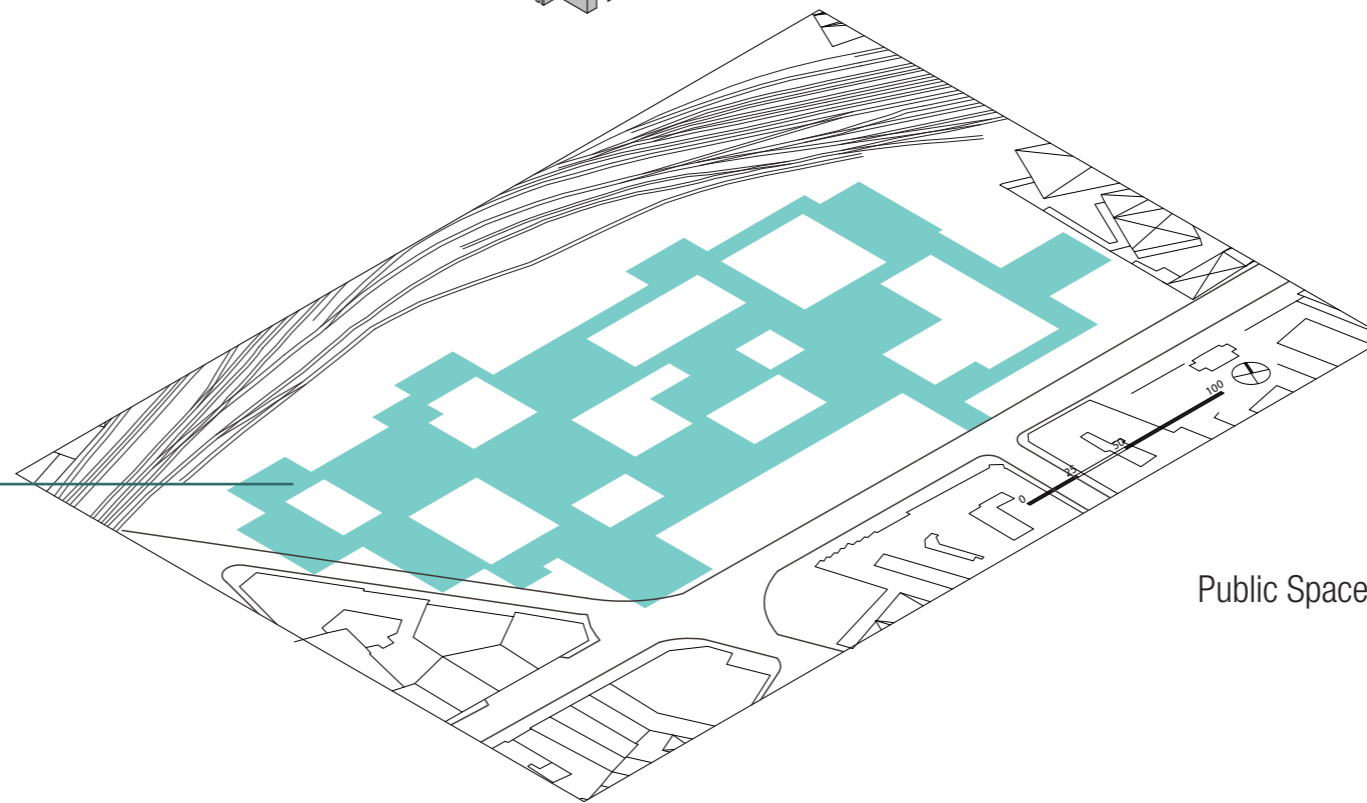
SYSTEM - A LAYERING APPROACH



New Volume

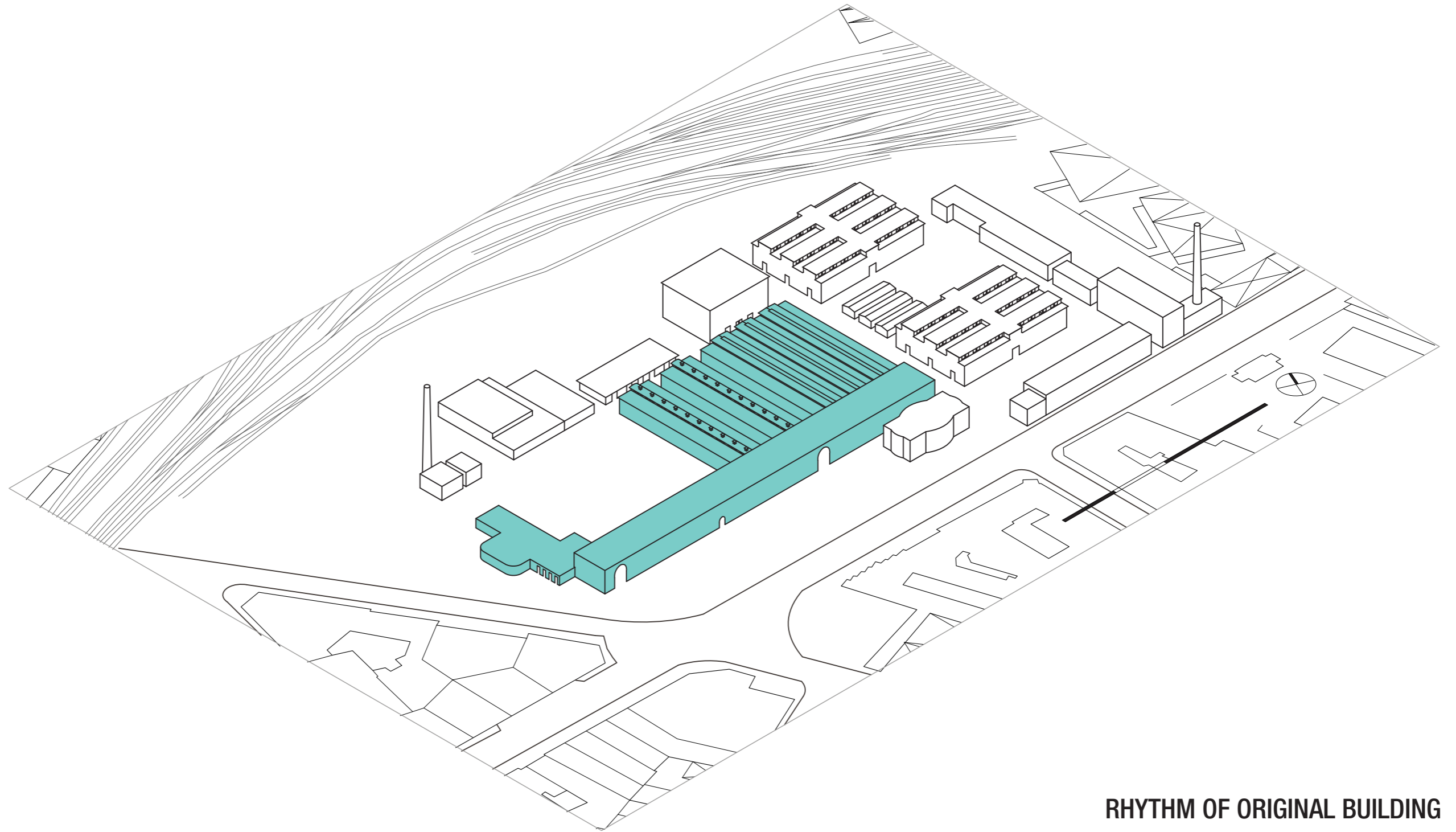
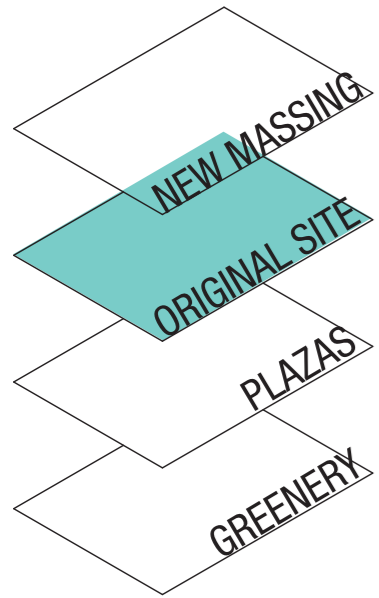


Original Massing

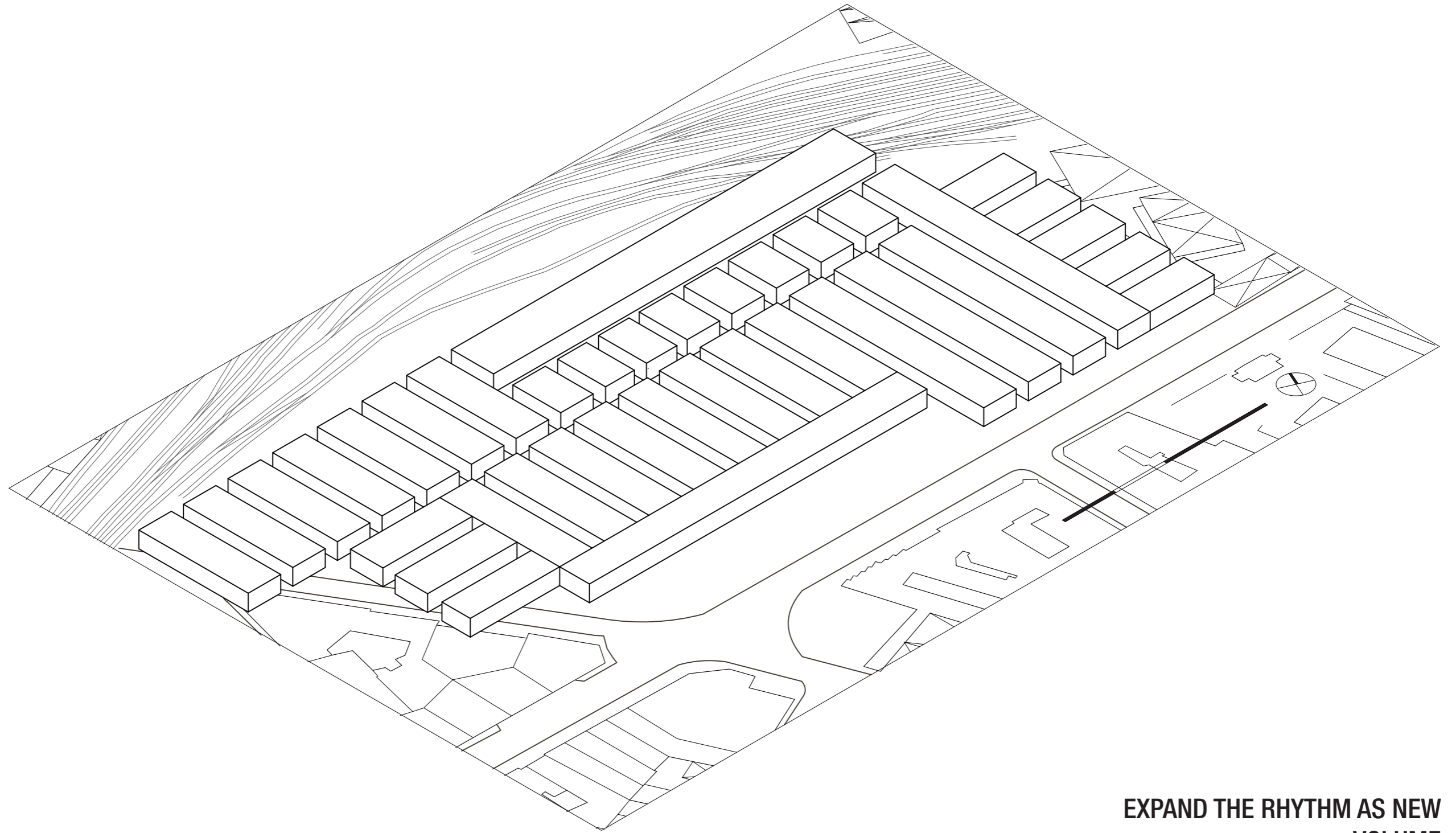
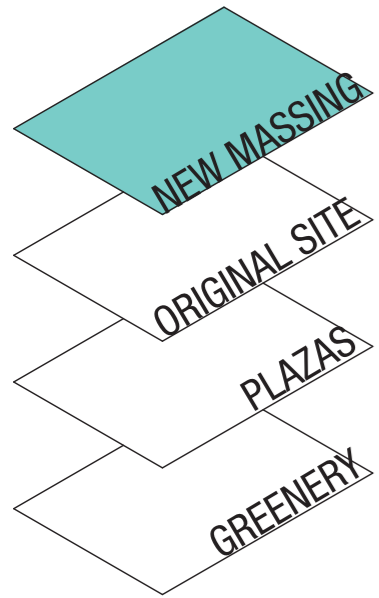


Public Space

SYSTEM - A LAYERING APPROACH

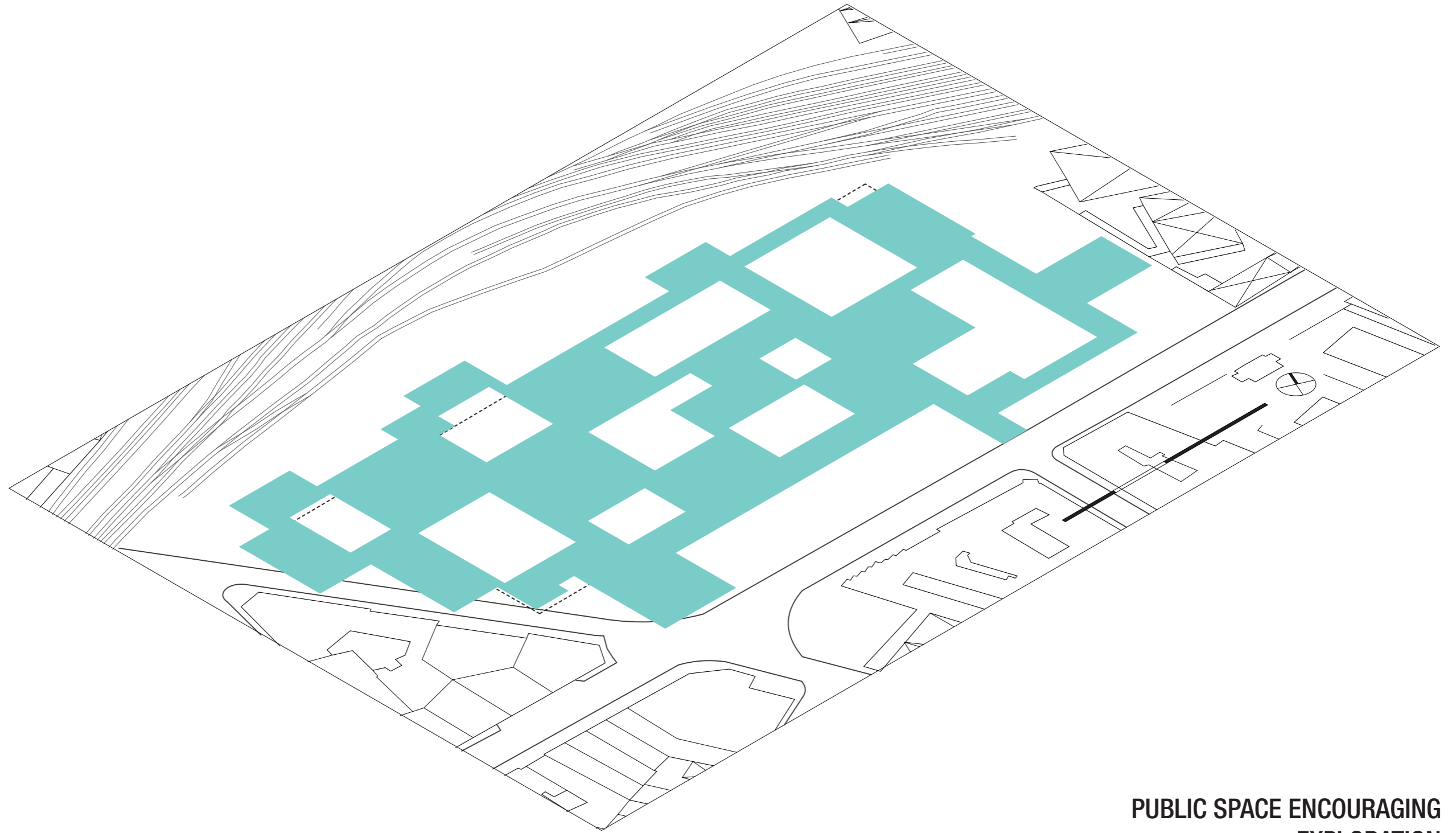
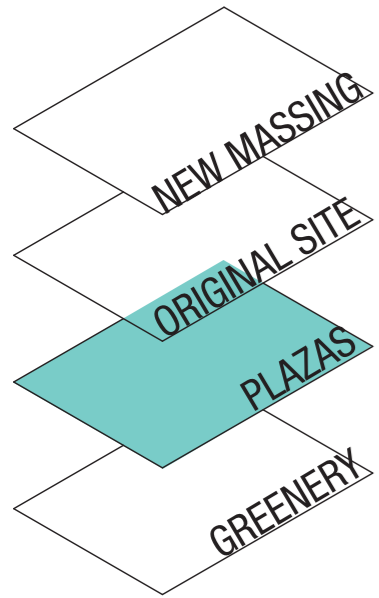


SYSTEM - A LAYERING APPROACH



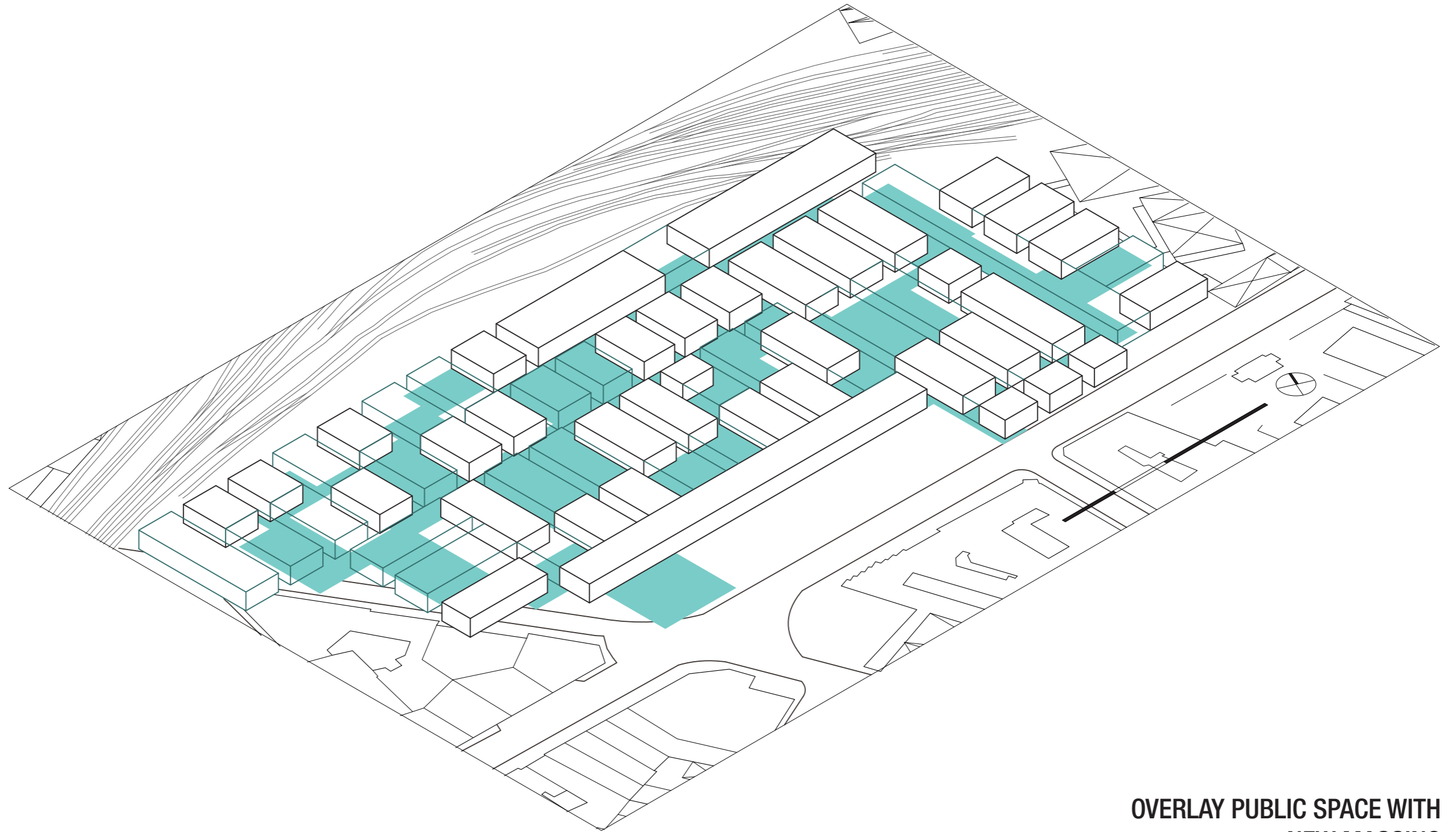
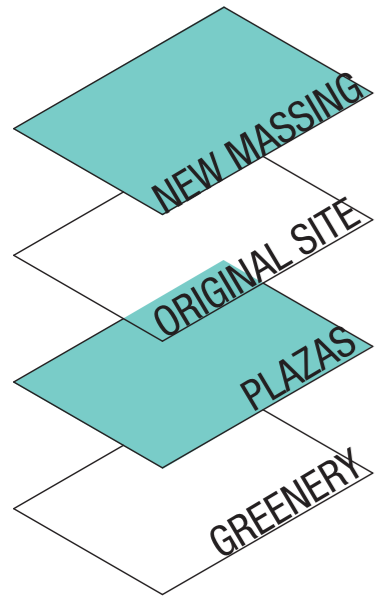
EXPAND THE RHYTHM AS NEW VOLUME

SYSTEM - A LAYERING APPROACH

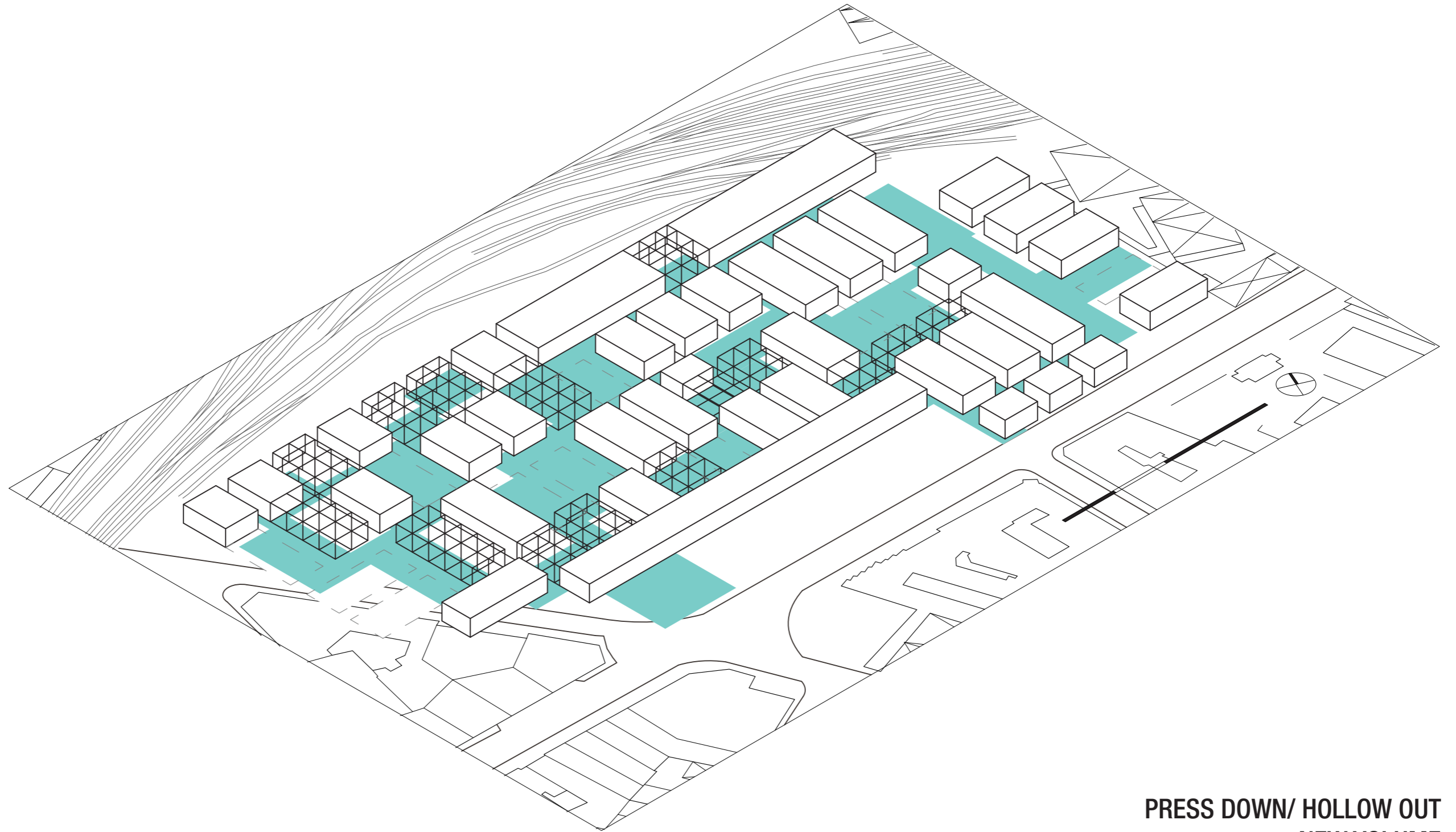
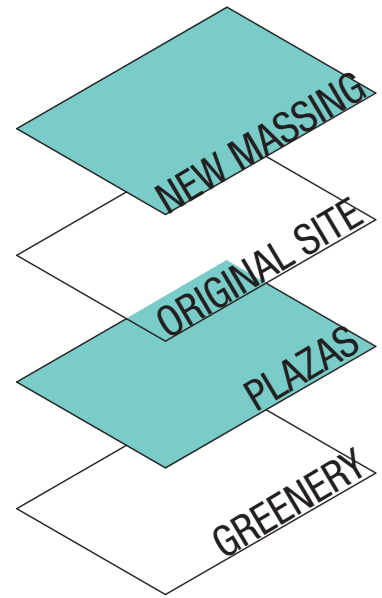


**PUBLIC SPACE ENCOURAGING
EXPLORATION**

SYSTEM - A LAYERING APPROACH

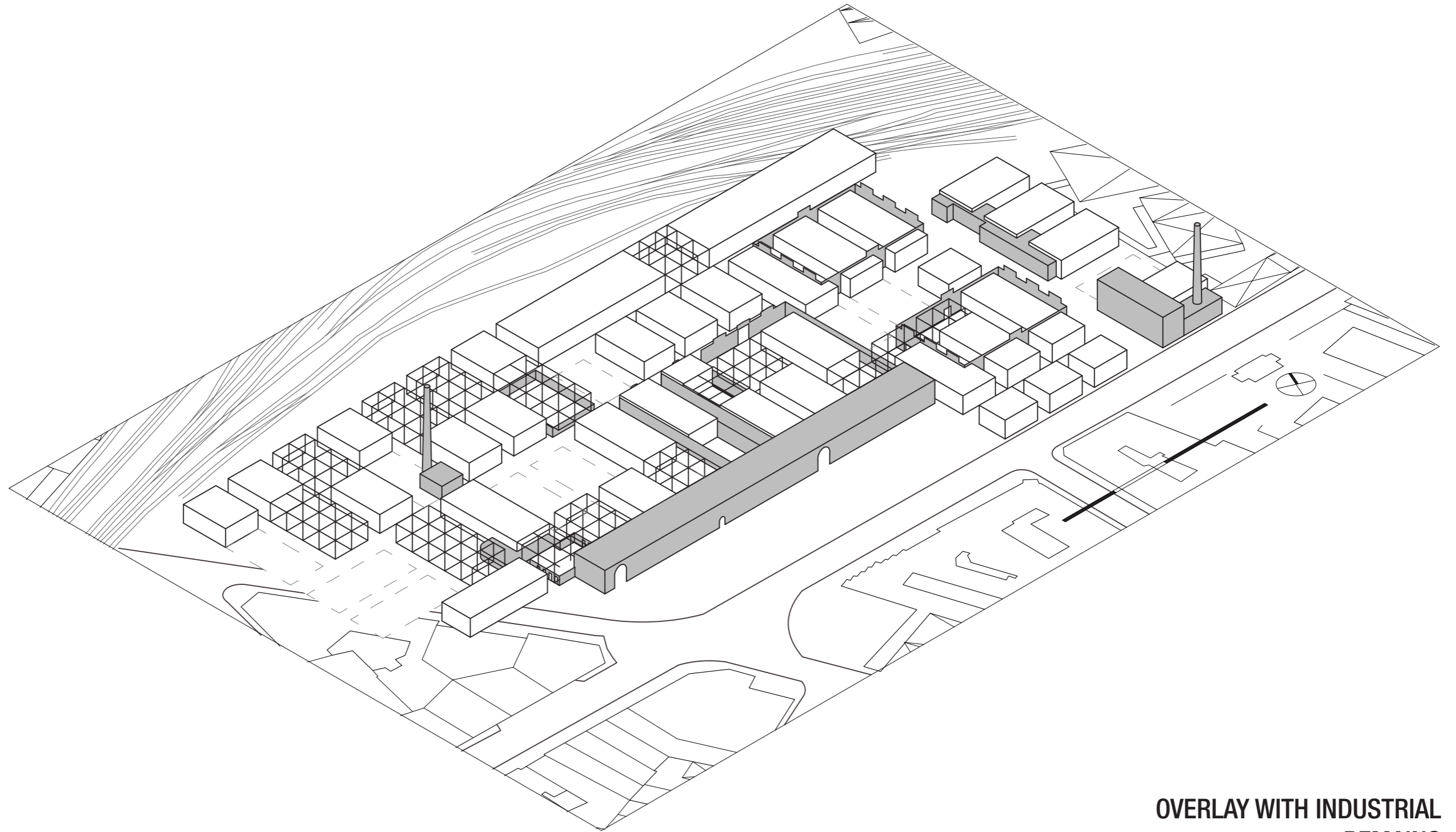
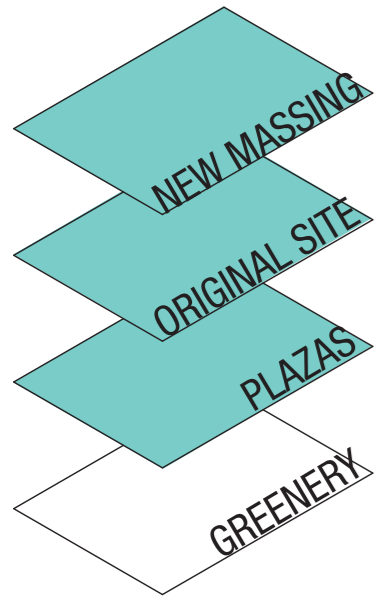


SYSTEM - A LAYERING APPROACH



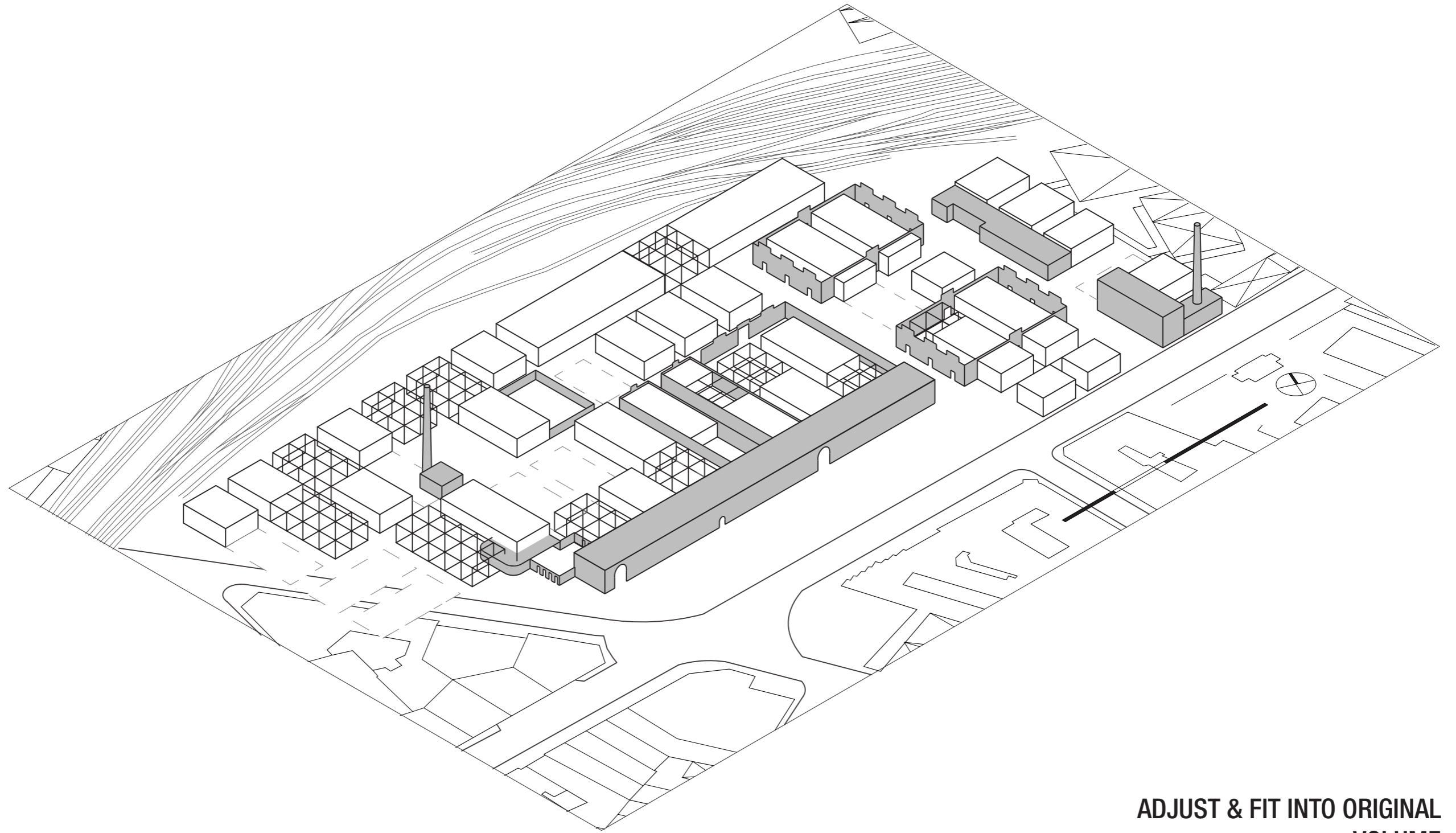
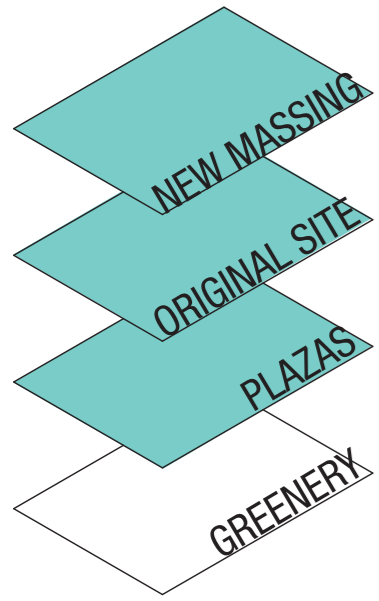
**PRESS DOWN/ HOLLOW OUT
NEW VOLUME**

SYSTEM - A LAYERING APPROACH



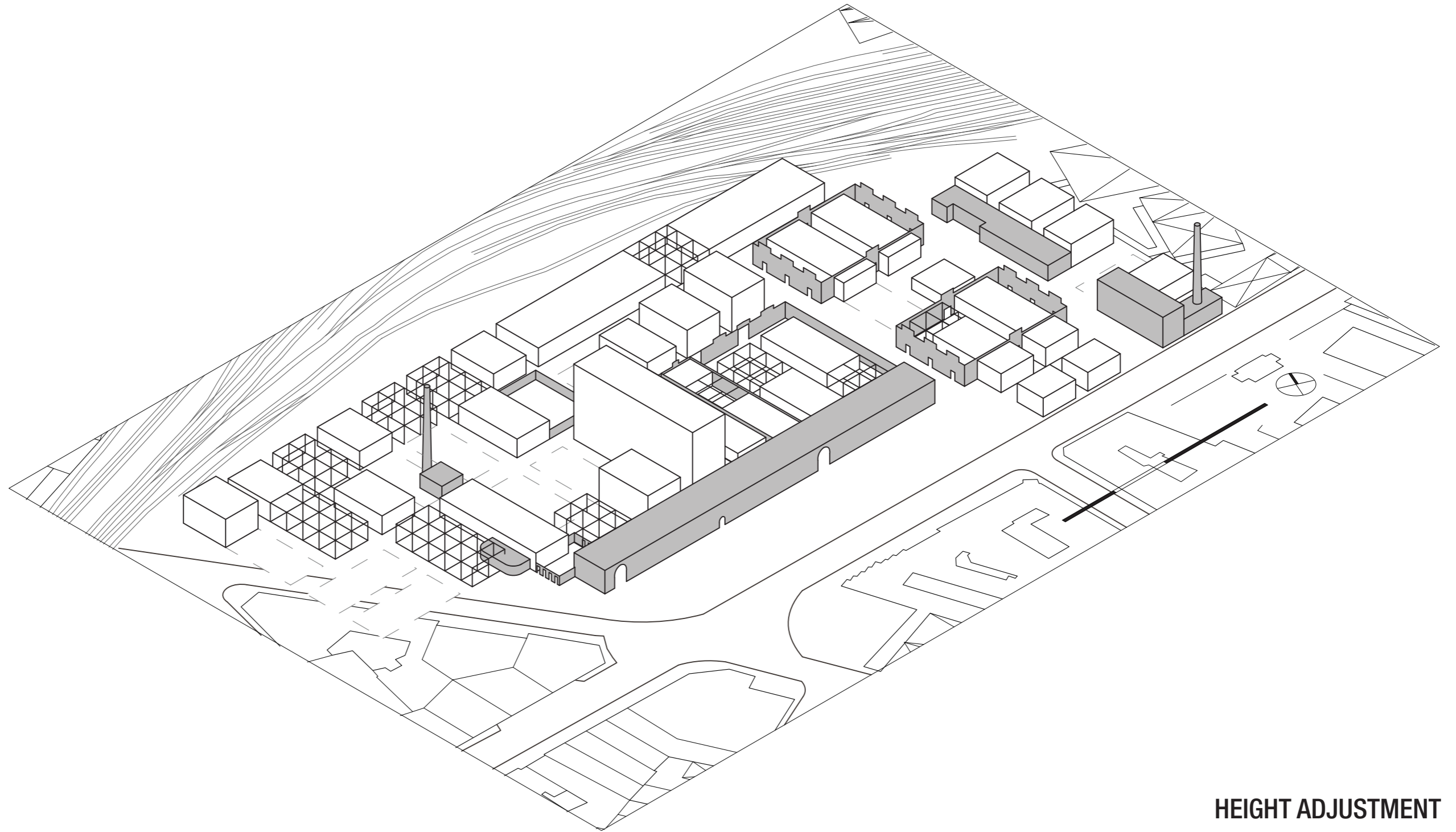
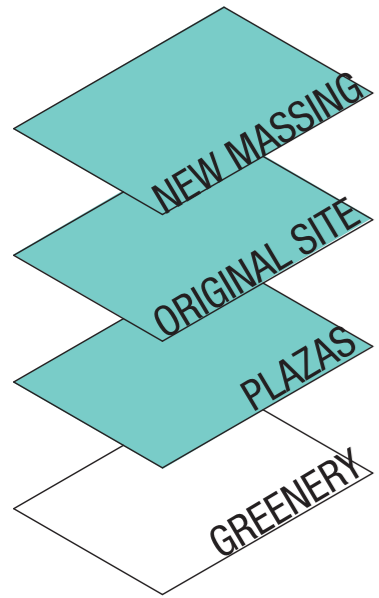
OVERLAY WITH INDUSTRIAL
REMAINS

SYSTEM - A LAYERING APPROACH

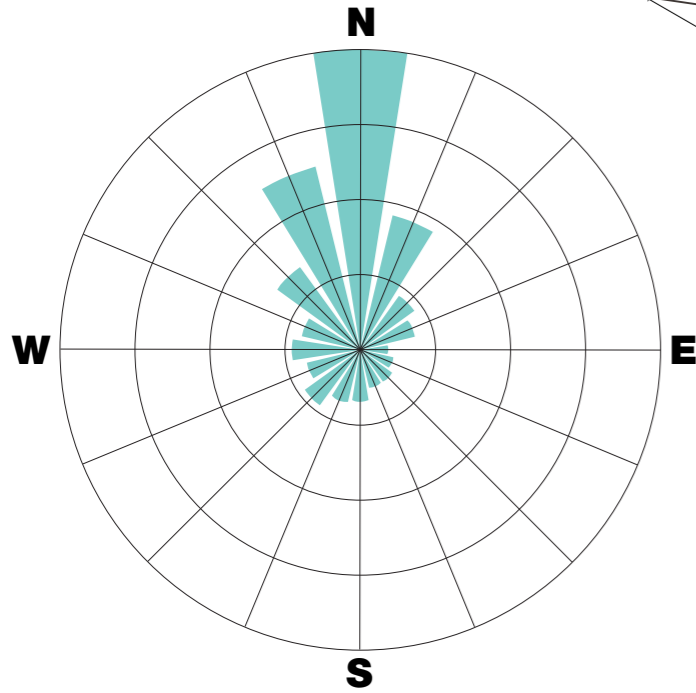
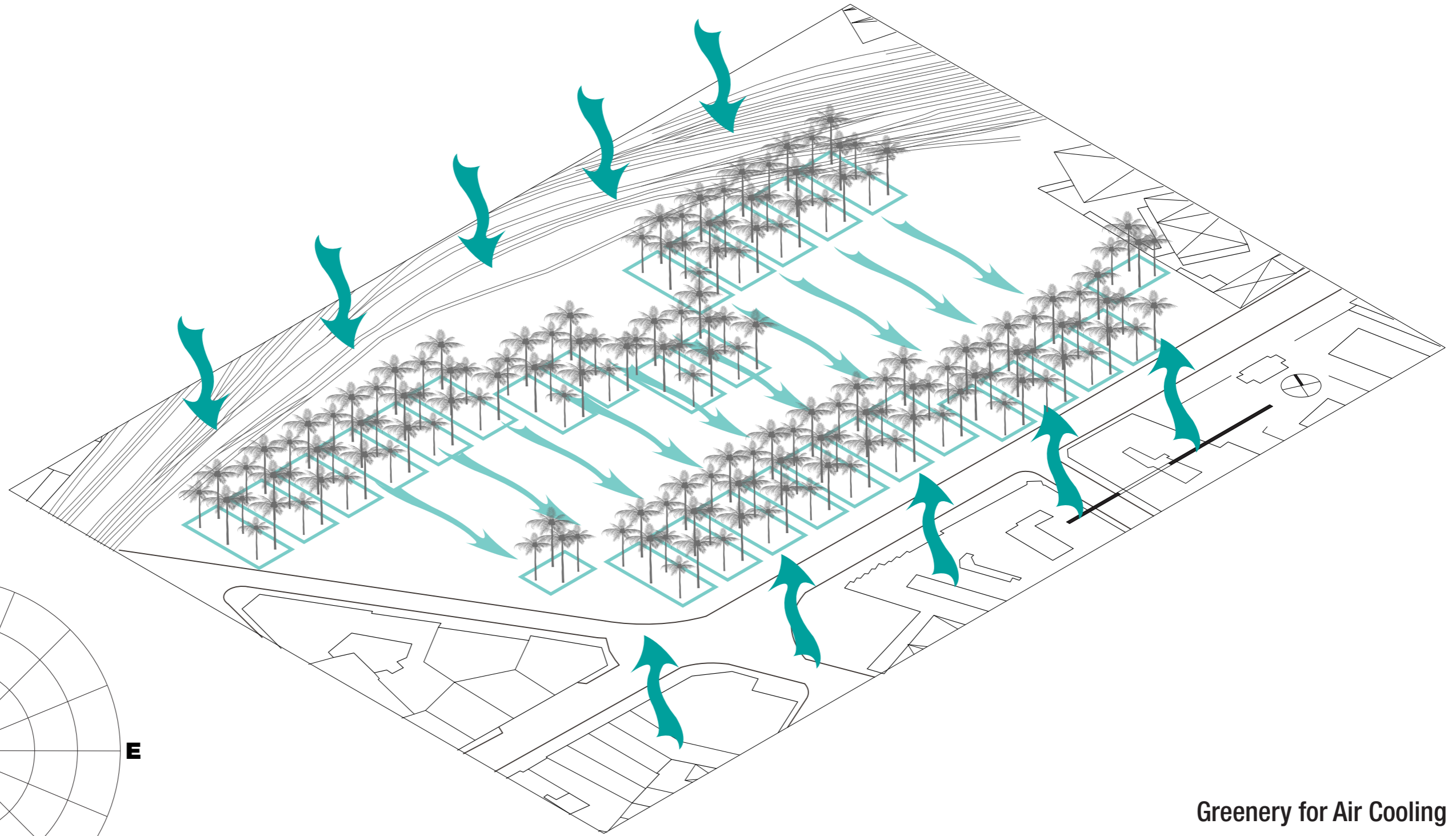


ADJUST & FIT INTO ORIGINAL VOLUME

SYSTEM - A LAYERING APPROACH

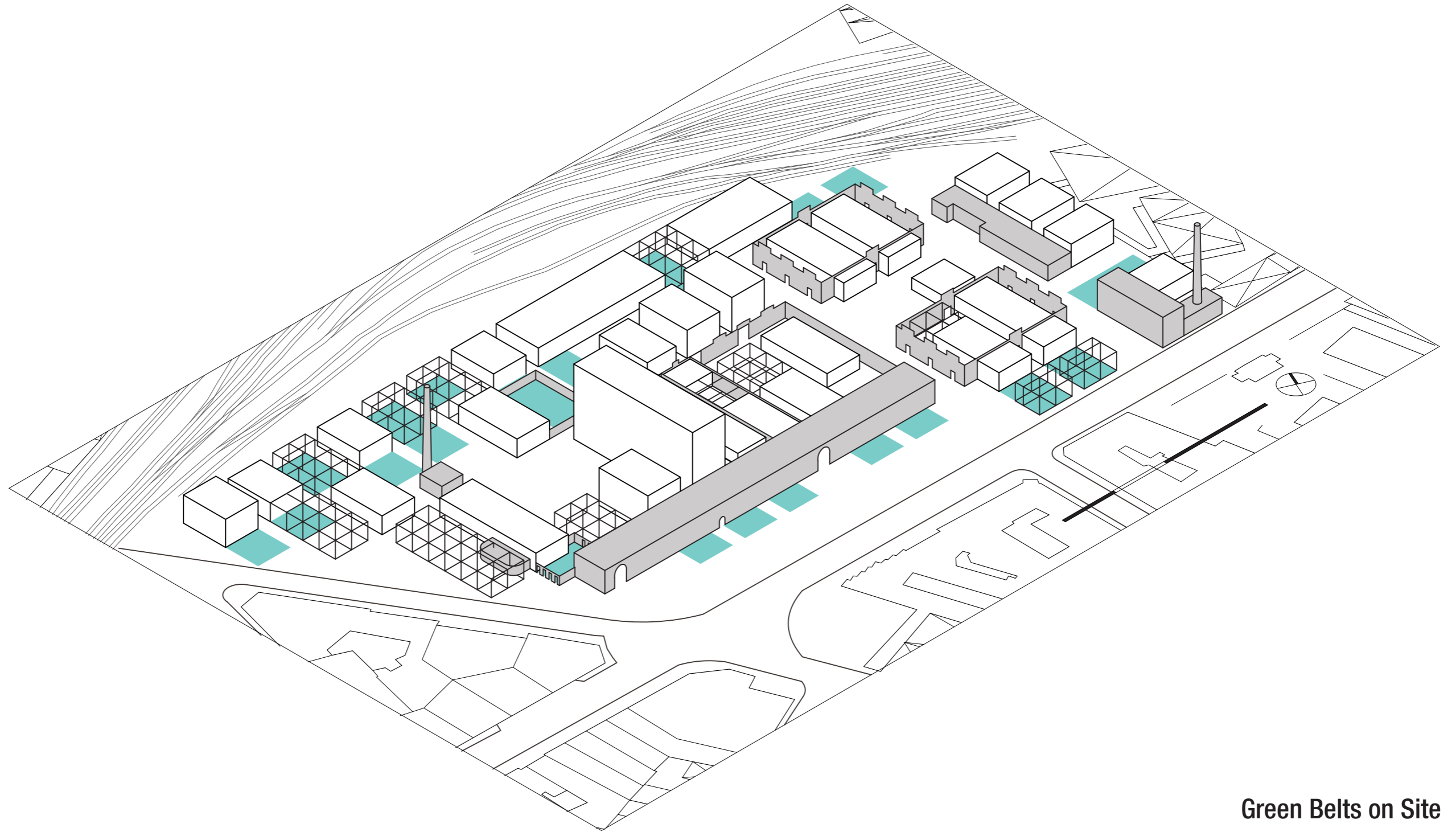
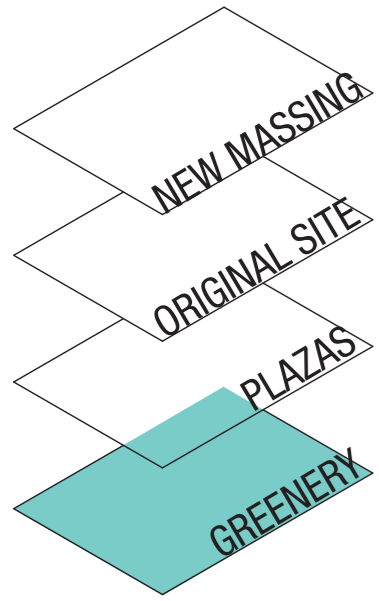


SYSTEM - A LAYERING APPROACH



Greenery for Air Cooling

SYSTEM - A LAYERING APPROACH



Green Belts on Site

SYSTEM -OVERVIEW



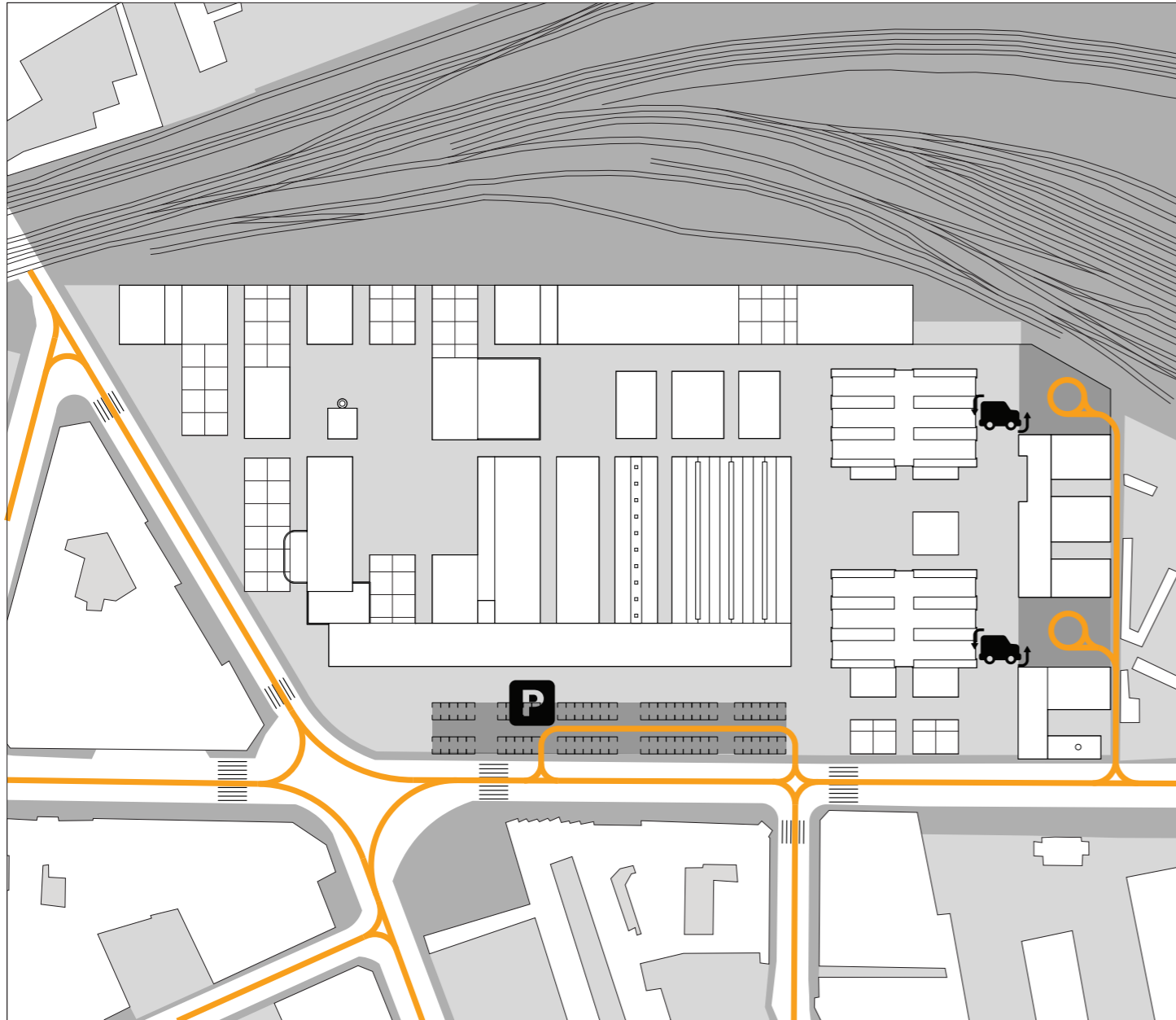
From Fieldwork to Research Question

From Analysis to Intervention Strategy

[On Lightness: A Layering Approach](#)

On Lightness: Two Pilot Projects

SYSTEM -ANALYSIS



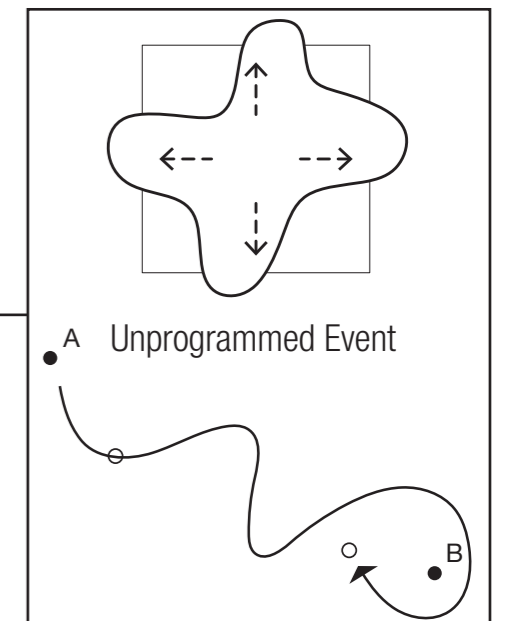
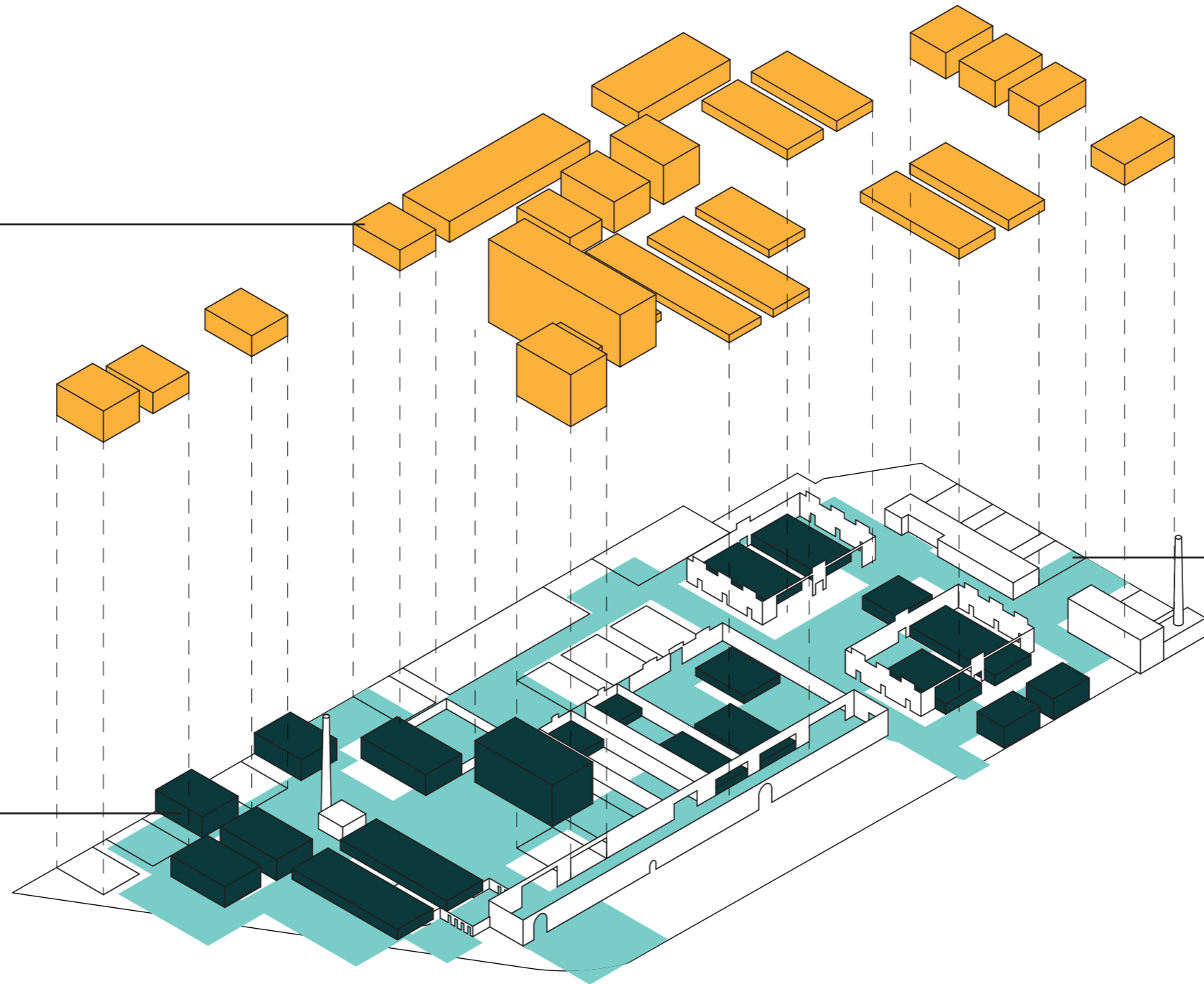
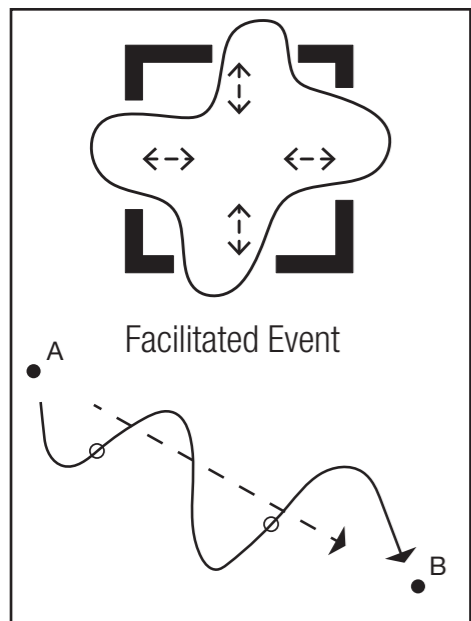
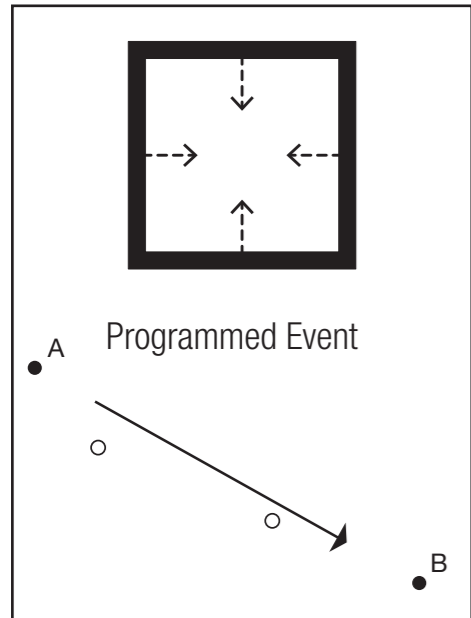
- Vehicle
- P** Parking
- Loading Zone



- -> Pedestrian

Circulation

SYSTEM -ANALYSIS



Programmed Event

Unprogrammed Event

Facilitated Event

Program Distribution

SYSTEM -ANALYSIS

Private ↑



- 01 Reception
- 02 Administration Office
- 03 Administration Office
- 04. 05. 06 Cinema
- 07 Children Centre
- 08. 09. 10 Office
- 11 Theatre
- 12. 13. 14. 15 Archive
- 16 Market
- 17 Cafe& Restaurant
- 18 Music Studio
- 19 Youth Centre
- 20. 21 Exhibition
- 22 Exhibition/ Office
- 23 Intercommunication Hall
- 24 Library
- 25. 26 Archive

Program Distribution

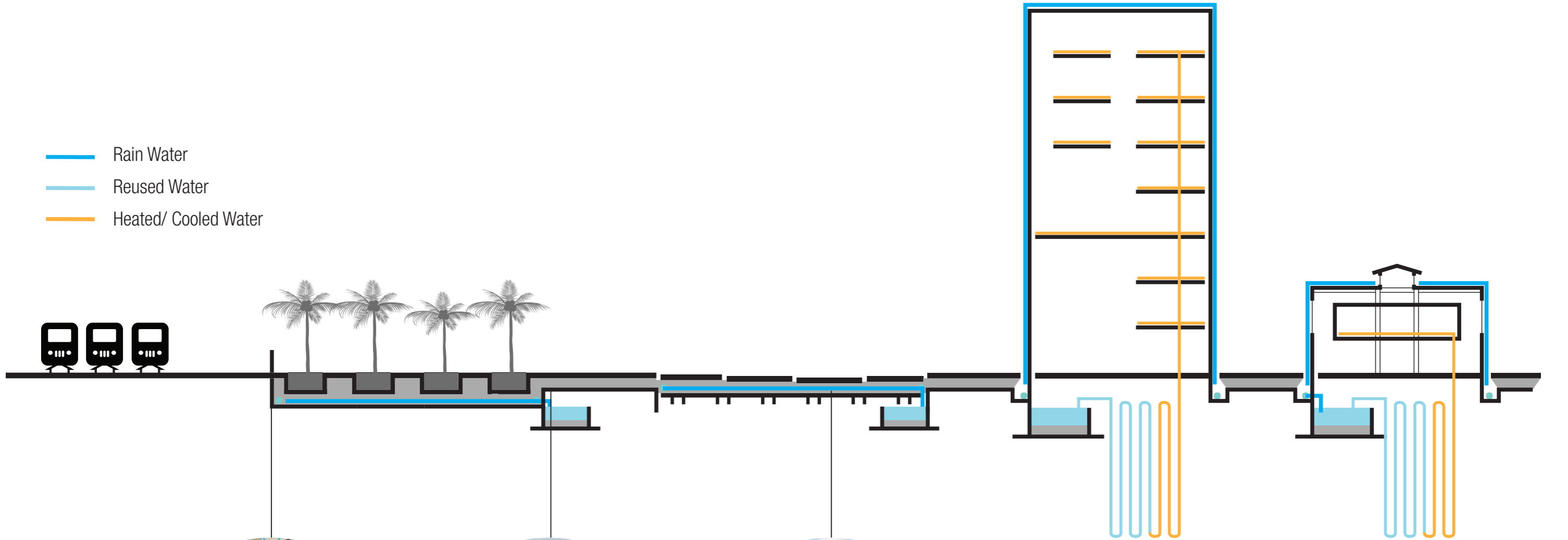
Public

Public

Private

SYSTEM -ANALYSIS

- Rain Water
- Reused Water
- Heated/ Cooled Water



Climate Scheme-Rain Water Reuse



Tree Box



Water Tank



Permeable Paving

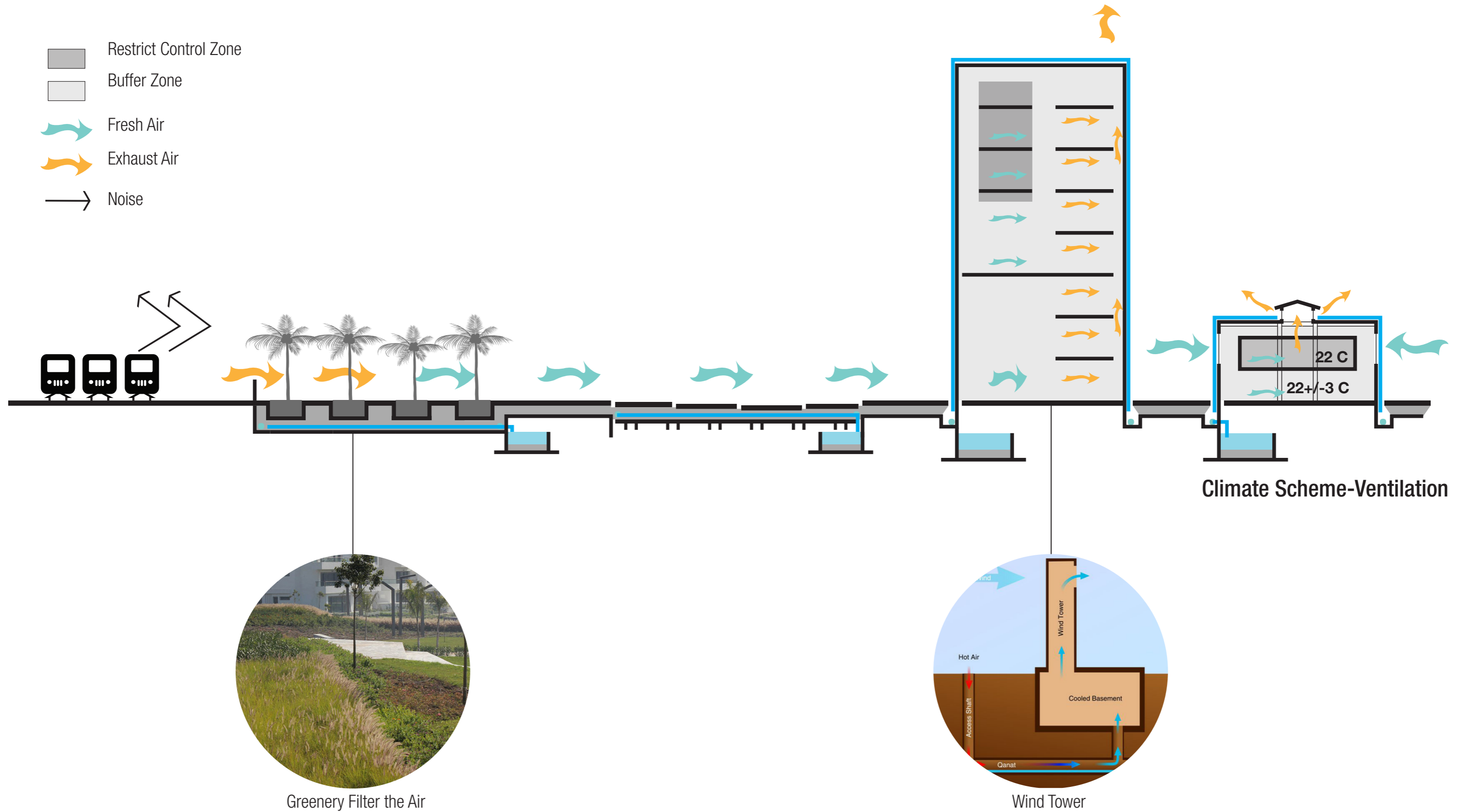
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SYSTEM -ANALYSIS



From Fieldwork to Research Question

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PROCESS - NEEDS DETECTED FROM FIELDWORK



THE ISSUE OF PROTECTION

NEED FOR COVERING
 CLIMATISING
 NEED FOR SHADING
 NEED FOR PRESERVATION
 NEED FOR SAFETY
 SAFETY
 NEED FOR SECURITY

THE ISSUE OF IDENTITY

NEED FOR SHOWING USE
 NEED FOR DISTINGUISHING
 NEED FOR DIFFERENTIATION
 REPRESENTATION
 NEED FOR ATTENTION
 NEED FOR BRANDING
 NEED FOR BRANDING

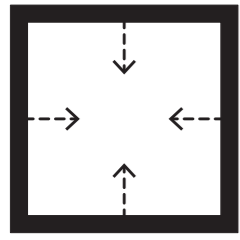
THE ISSUE OF CAPACITY

NEED FOR MORE SPACE
 ADDING/CLAIMING SPACE
 NEED FOR SHOP
 NEED FOR INDICATING SPACE
 NEED FOR TERRACE SEATING

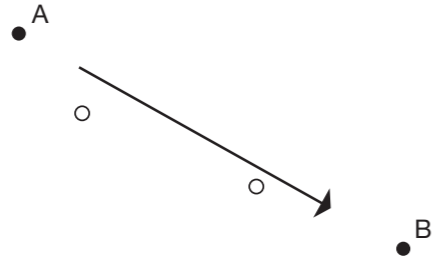
THE ISSUE OF MOVEMENT

NEED FOR REDIRECTING
 LEVELING
 NEED FOR ACCESS
 NEED FOR REGULATING
 SEPARATING FLOWS
 NEED FOR OBSTRUCTION

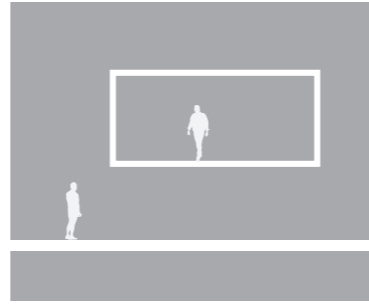
PROCESS - NEEDS FROM THREE TYPES OF USERS



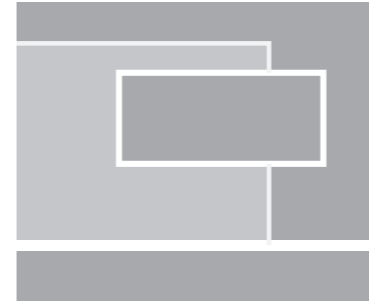
Programmed Event



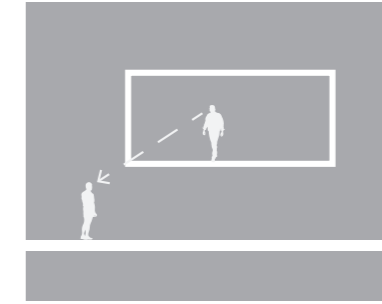
Direction



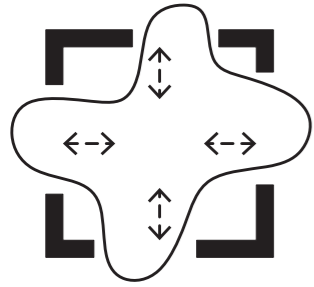
Separating Flow



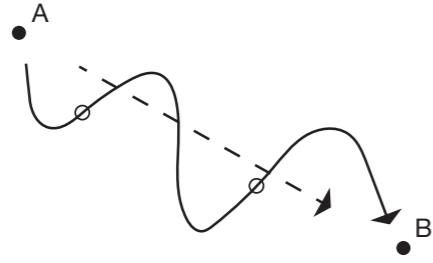
Representation



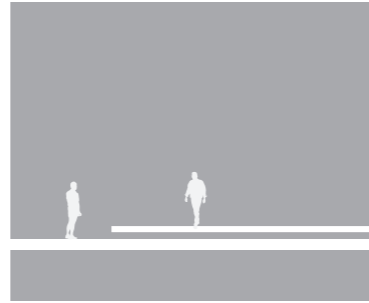
View



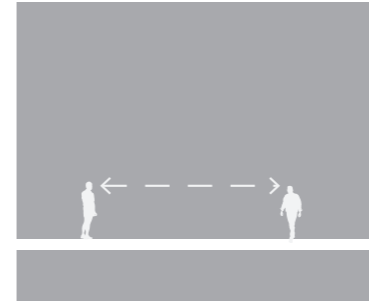
Facilitated Event



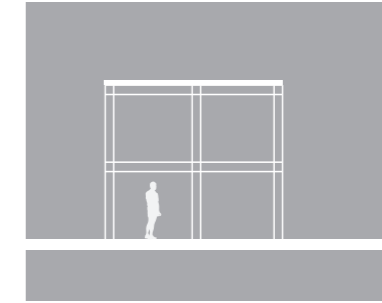
Direction



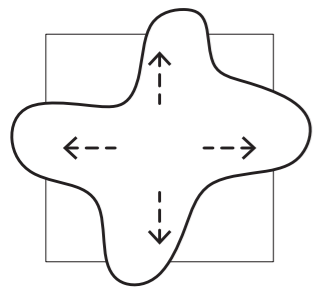
Separating Flow



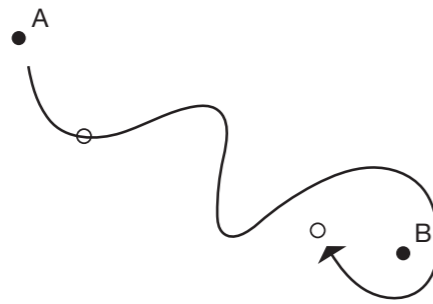
View



Climate



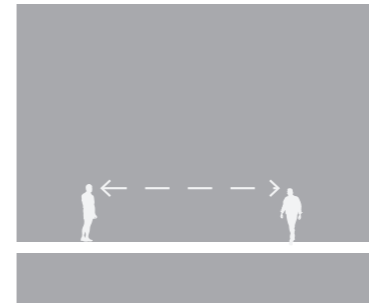
Unprogrammed Event



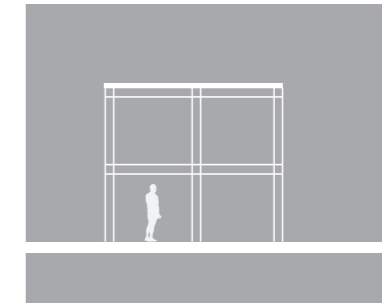
Exploration



Continuing Surface



View



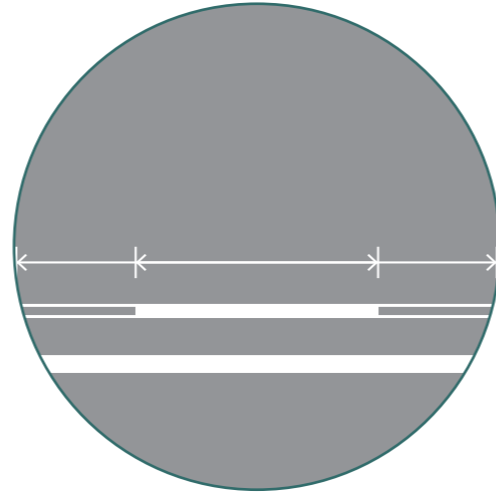
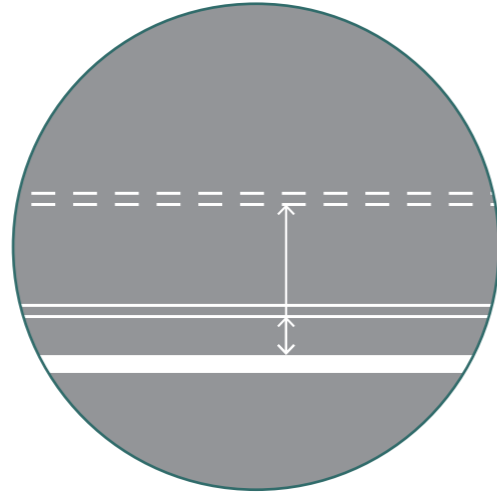
Climate

PROCESS - TOOLS

Change of
Material



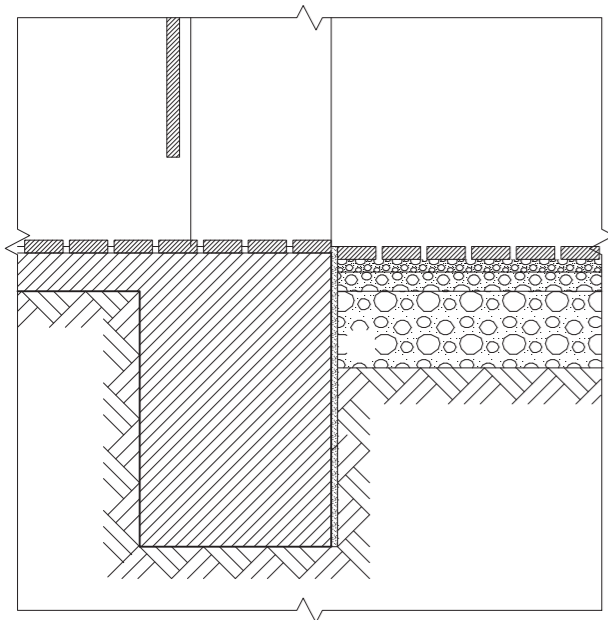
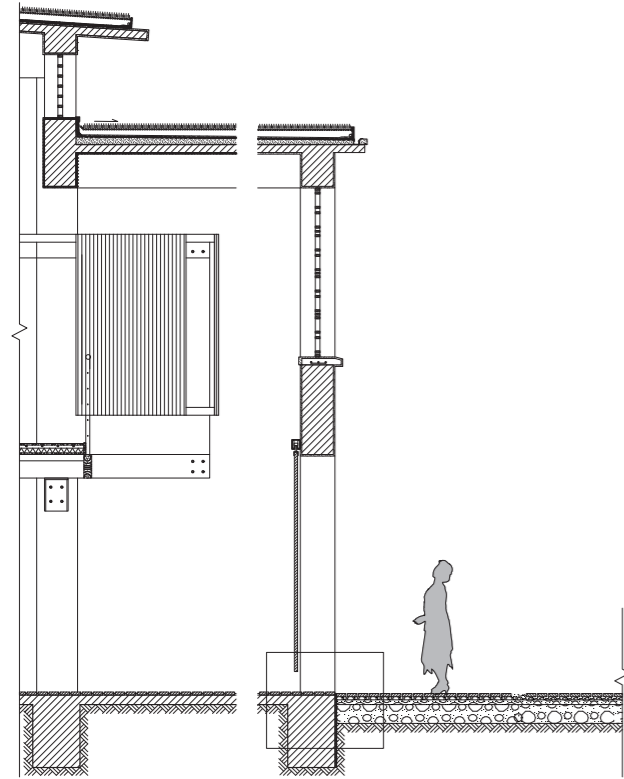
Surface
Width/
Height



Seperating
Elements



PROCESS - THREE SCENARIOS



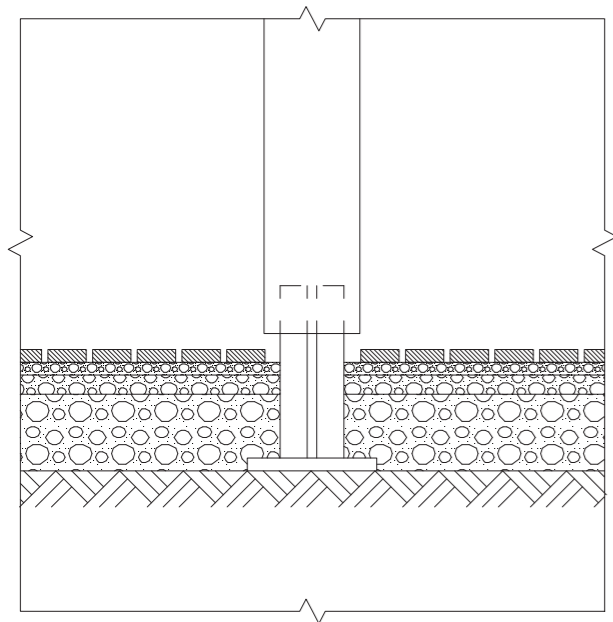
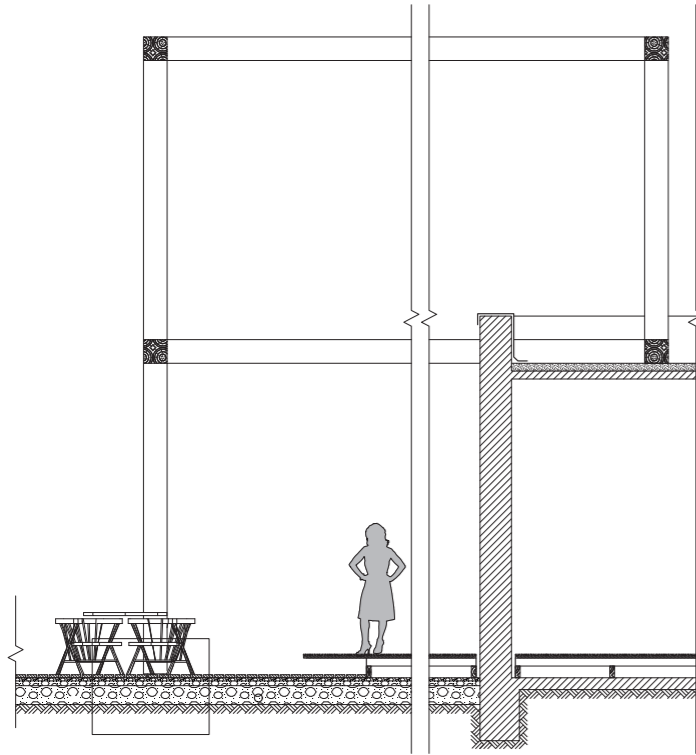
From Fieldwork to Research Question

From Analysis to Intervention Strategy

[On Lightness: A Layering Approach](#)

On Lightness: Two Pilot Projects

PROCESS - THREE SCENARIOS



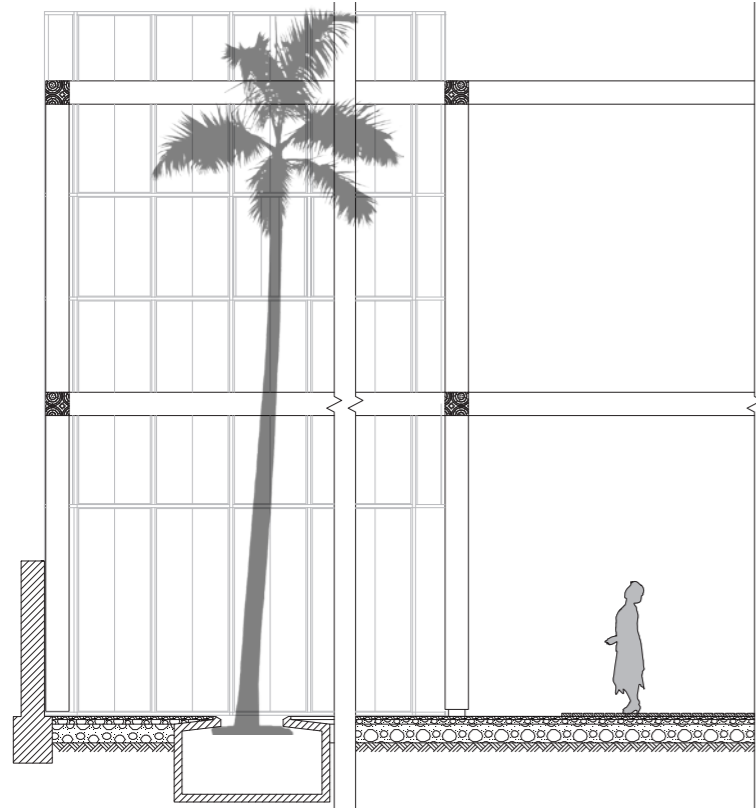
From Fieldwork to Research Question

From Analysis to Intervention Strategy

[On Lightness: A Layering Approach](#)

On Lightness: Two Pilot Projects

PROCESS - THREE SCENARIOS



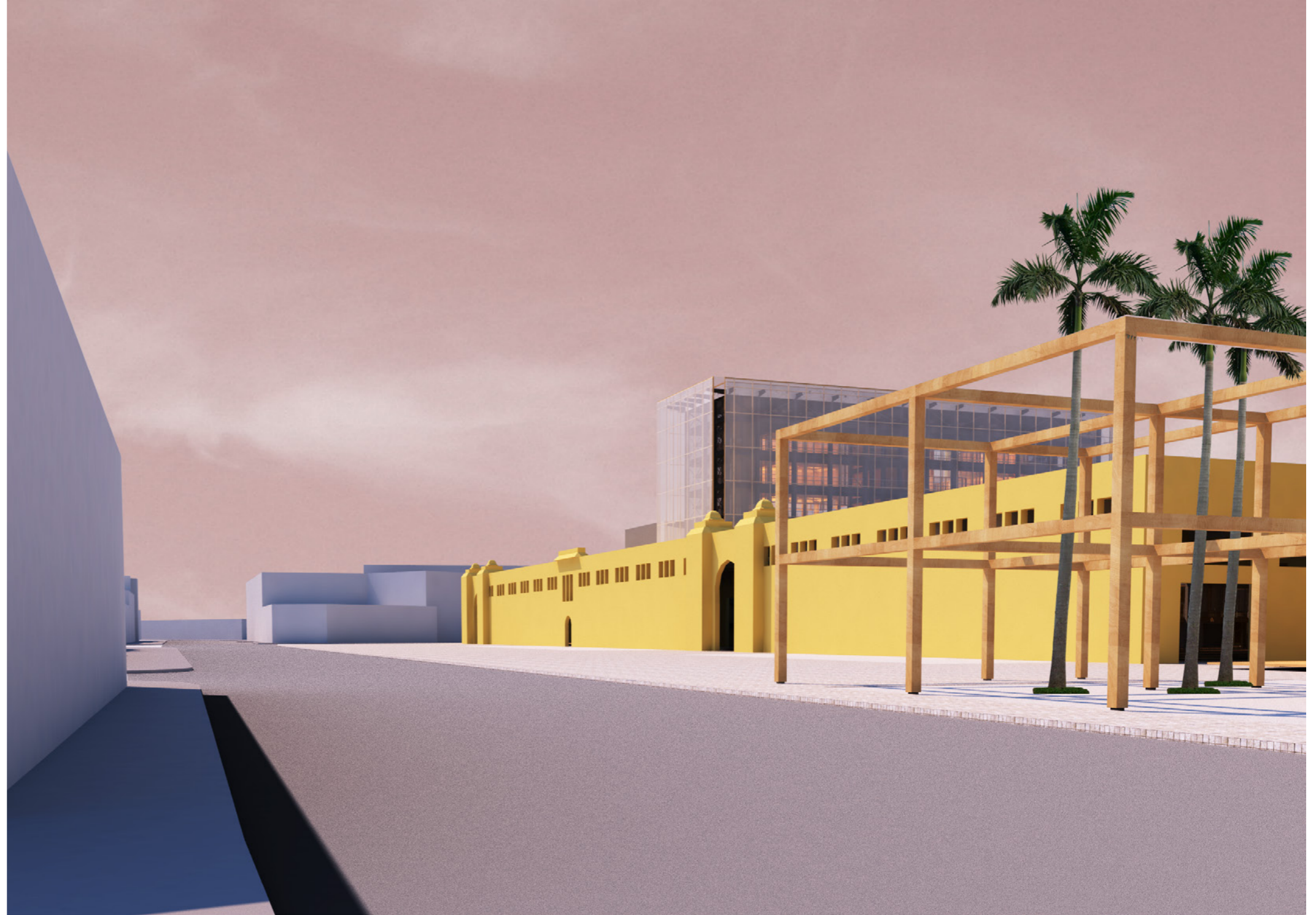
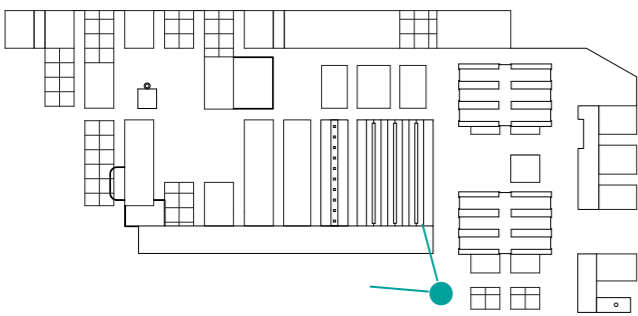
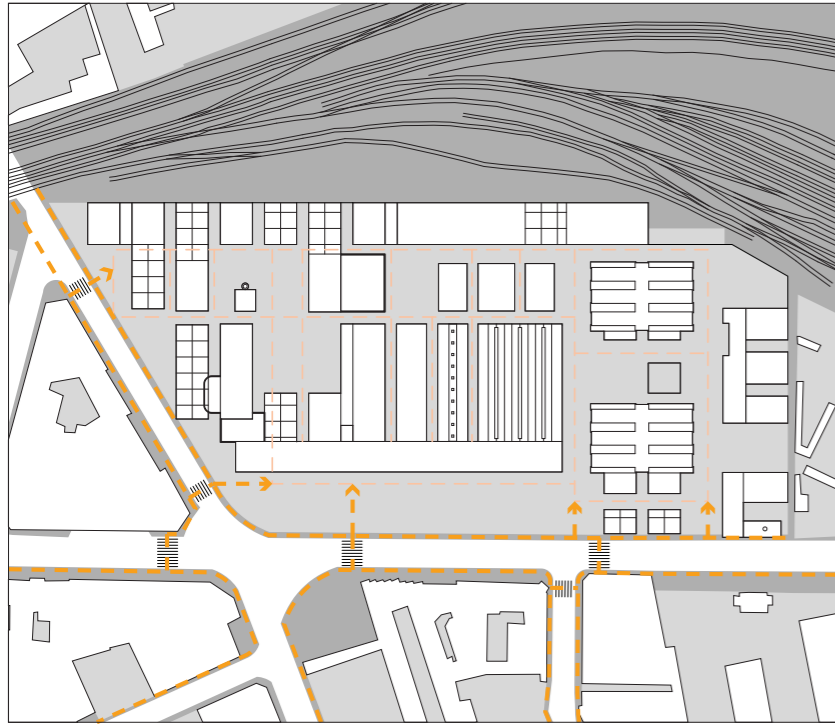
From Fieldwork to Research Question

From Analysis to Intervention Strategy

[On Lightness: A Layering Approach](#)

On Lightness: Two Pilot Projects

PROCESS - BORDER CONDITIONS



From Fieldwork to Research Question

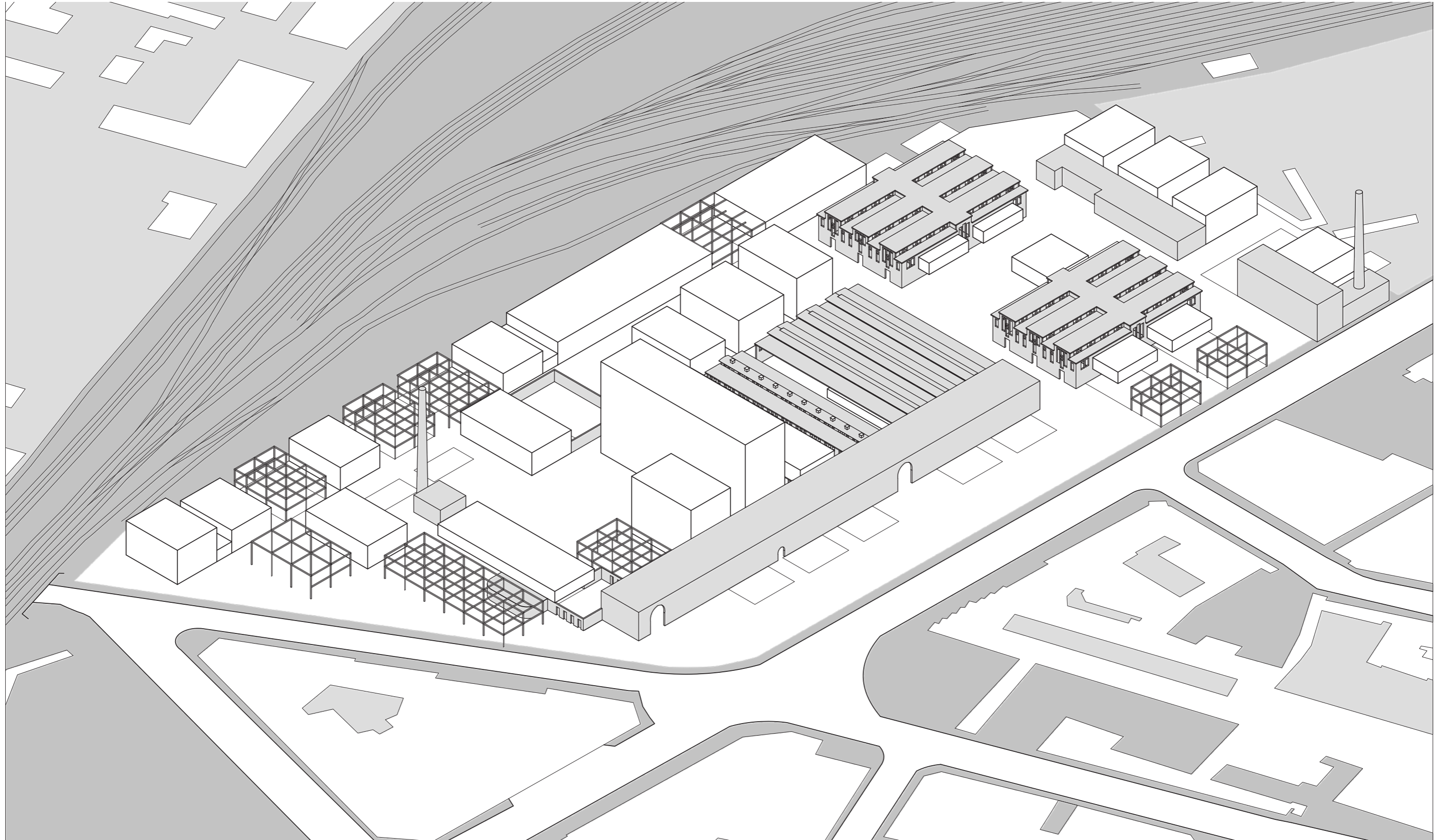
From Analysis to Intervention Strategy

[On Lightness: A Layering Approach](#)

On Lightness: Two Pilot Projects

PART 4
On Lightness: Two Pilot Projects

ON LIGHTNESS - TWO PILOT PROJECTS



From Fieldwork to Research Question

From Analysis to Intervention Strategy

On Lightness: A Layering Approach

On Lightness: Two Pilot Projects

ON LIGHTNESS -LEARN FROM CASE STUDY HOUSING

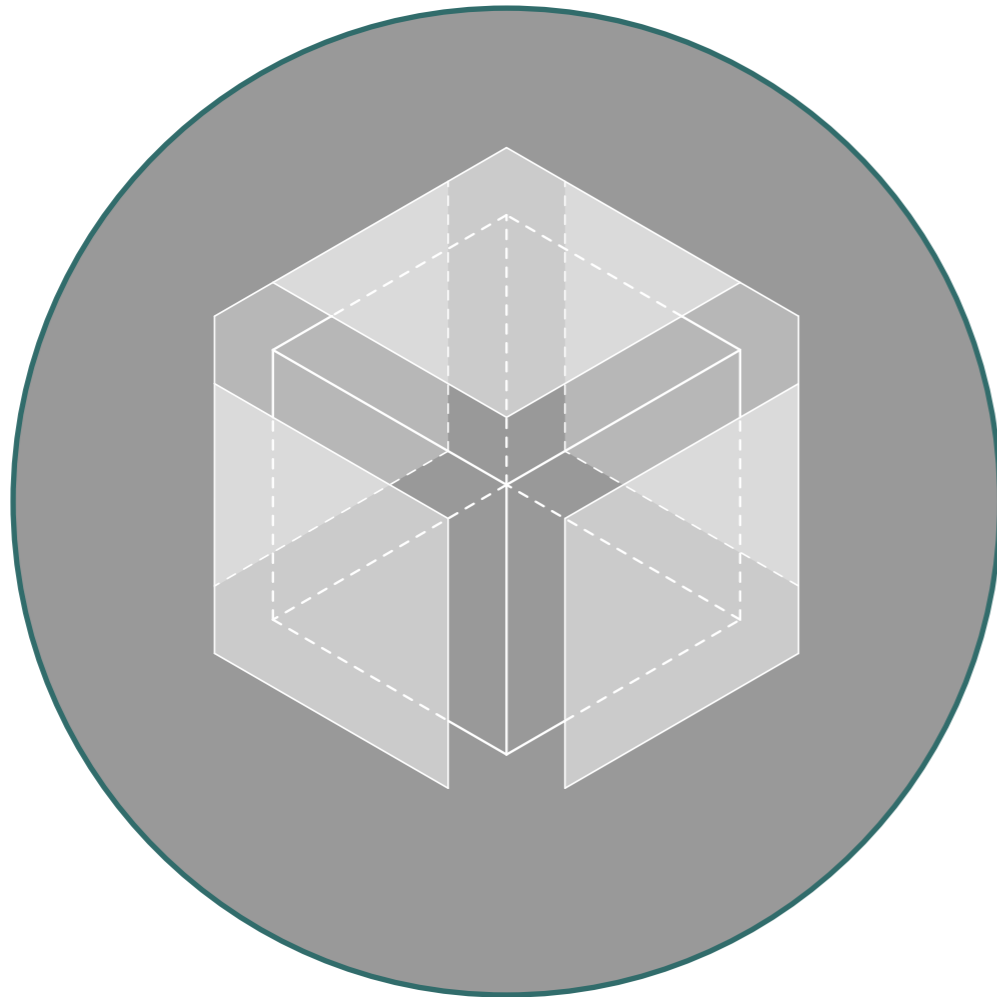


AN AUTHENTIC EXPRESSION OF EACH
ELEMENT BY DISLOCATION
HOUSE C BY KILLINGSWORTH, BRADY
AND SMITH



DISSOLVE THE VOLUME THROUGH EXPLO-
SION OF MASSING
CSH 16 BY CRAIG ELLWOOD

ON LIGHTNESS -STRATEGIES ON ARCHITECTURE DESIGN

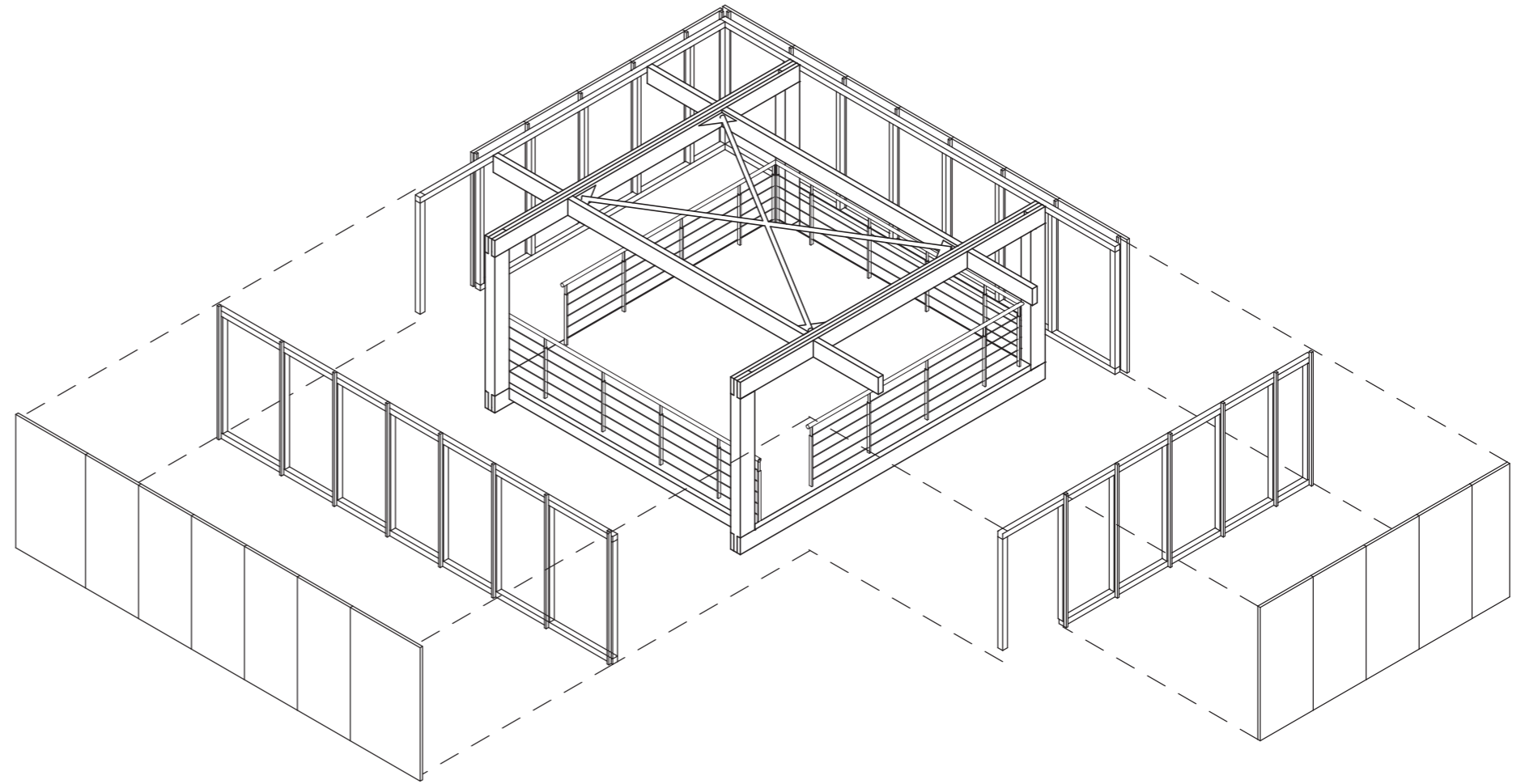
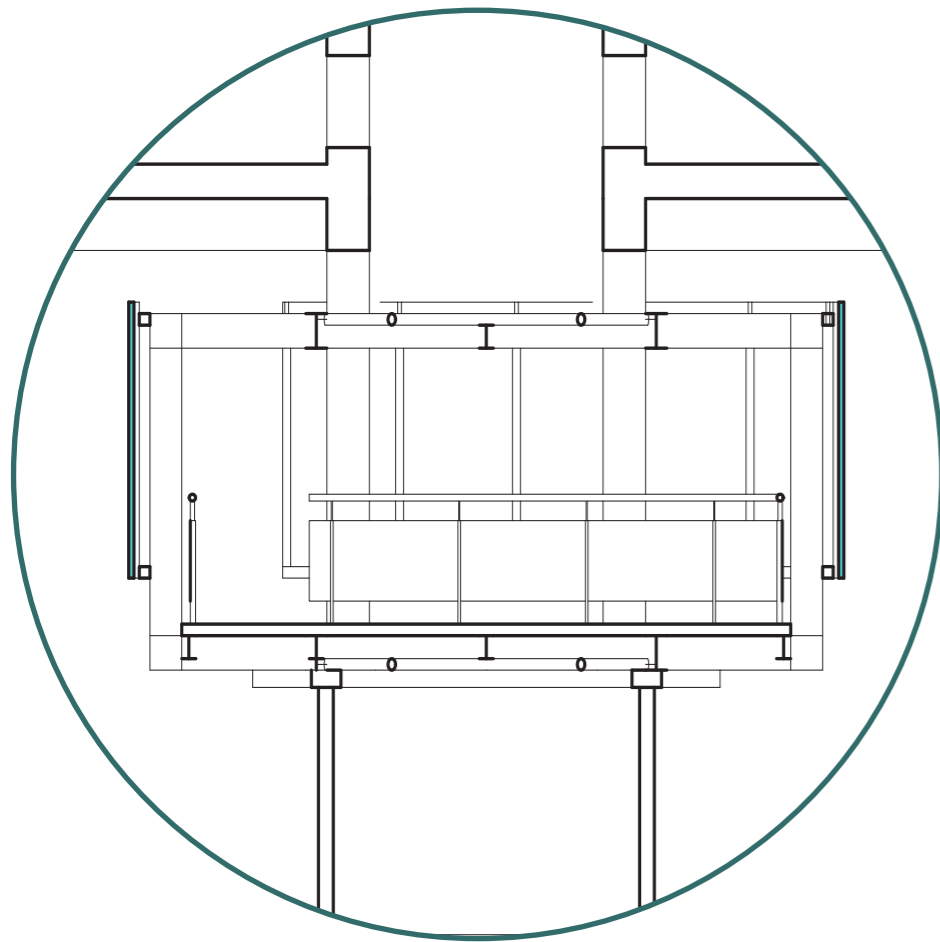


Form:
Explosion of Solid Volume



Materiality:
Light Weight & Translucent

FORM -PROTOTYPE



**A FLOWING BALLOON: An Authentic
Expressions of Each Elements**

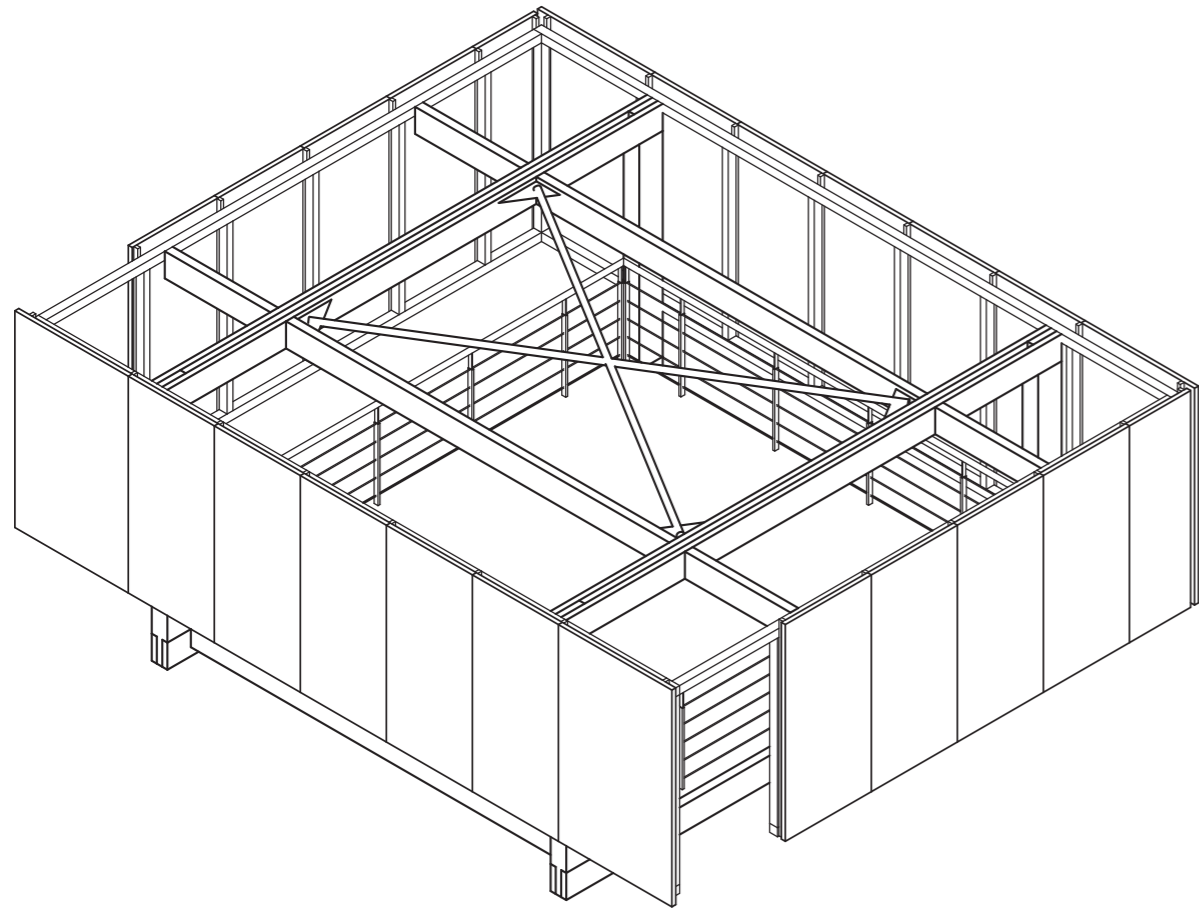
From Fieldwork to Research Question

From Analysis to Intervention Strategy

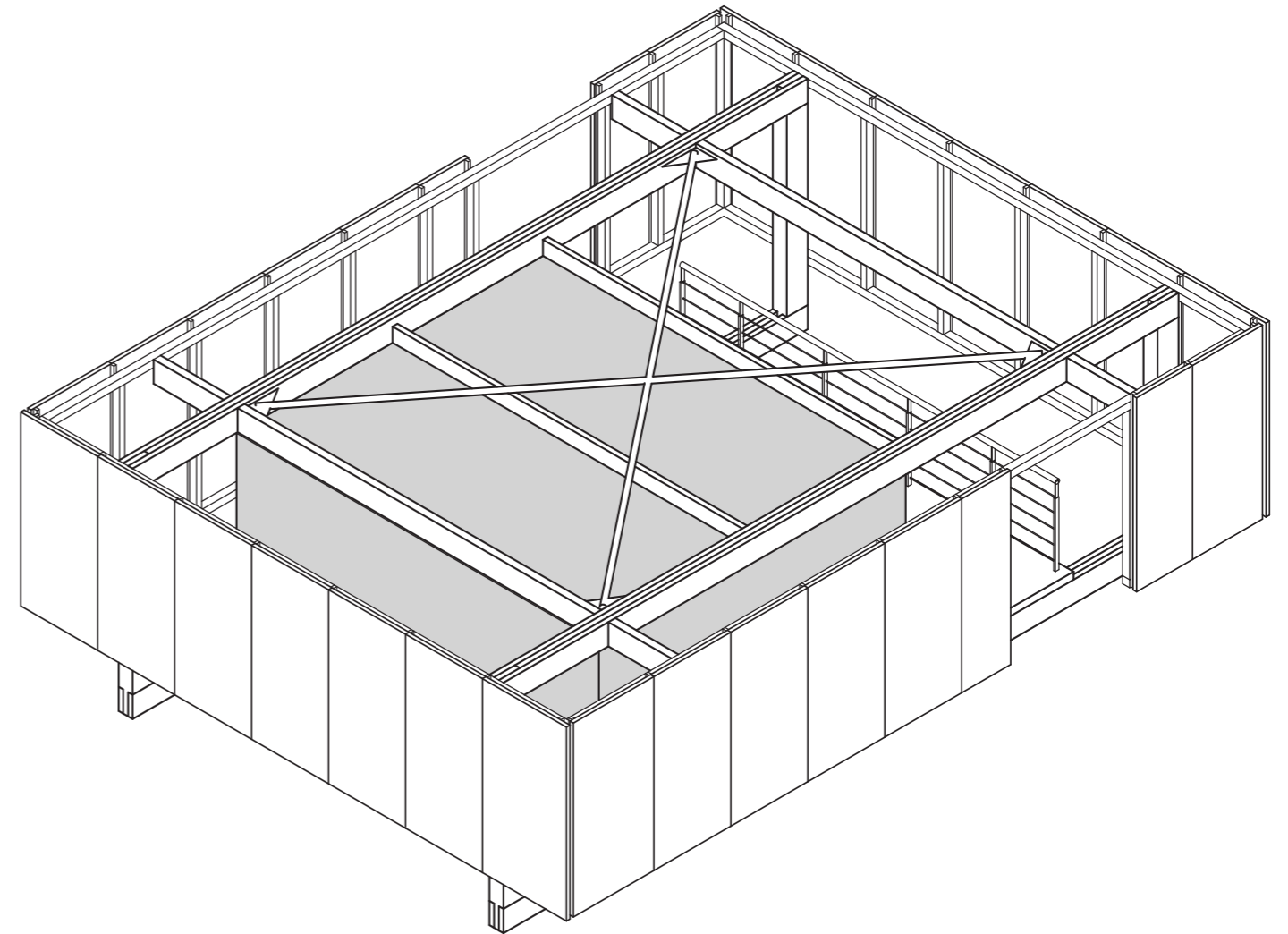
On Lightness: A Layering Approach

On Lightness: Two Pilot Projects

FORM -PROTOTYPE

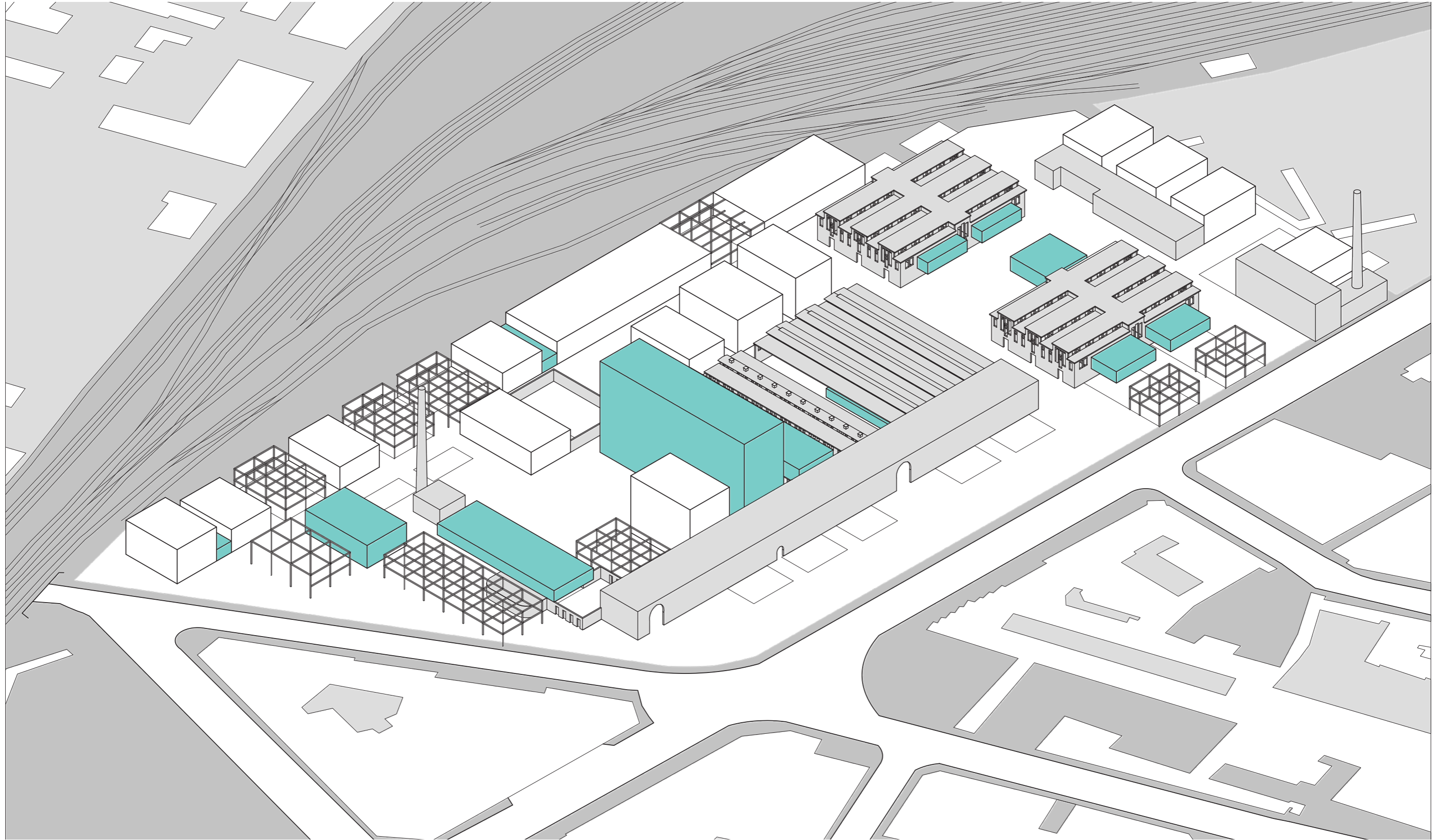


Open Form



Closed Form

ON LIGHTNESS - TWO PILOT PROJECTS



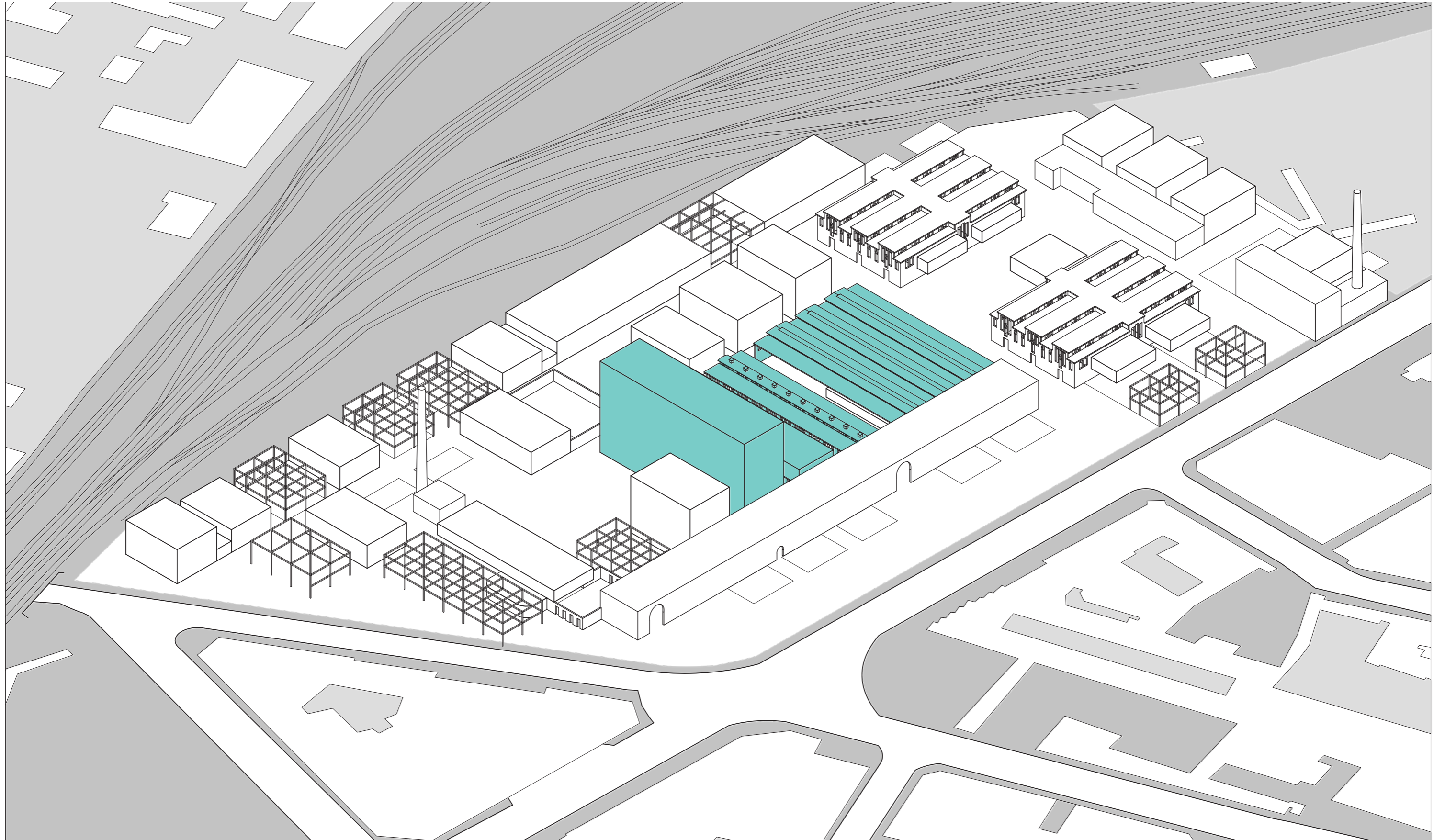
From Fieldwork to Research Question

From Analysis to Intervention Strategy

On Lightness: A Layering Approach

On Lightness: Two Pilot Projects

ON LIGHTNESS - TWO PILOT PROJECTS



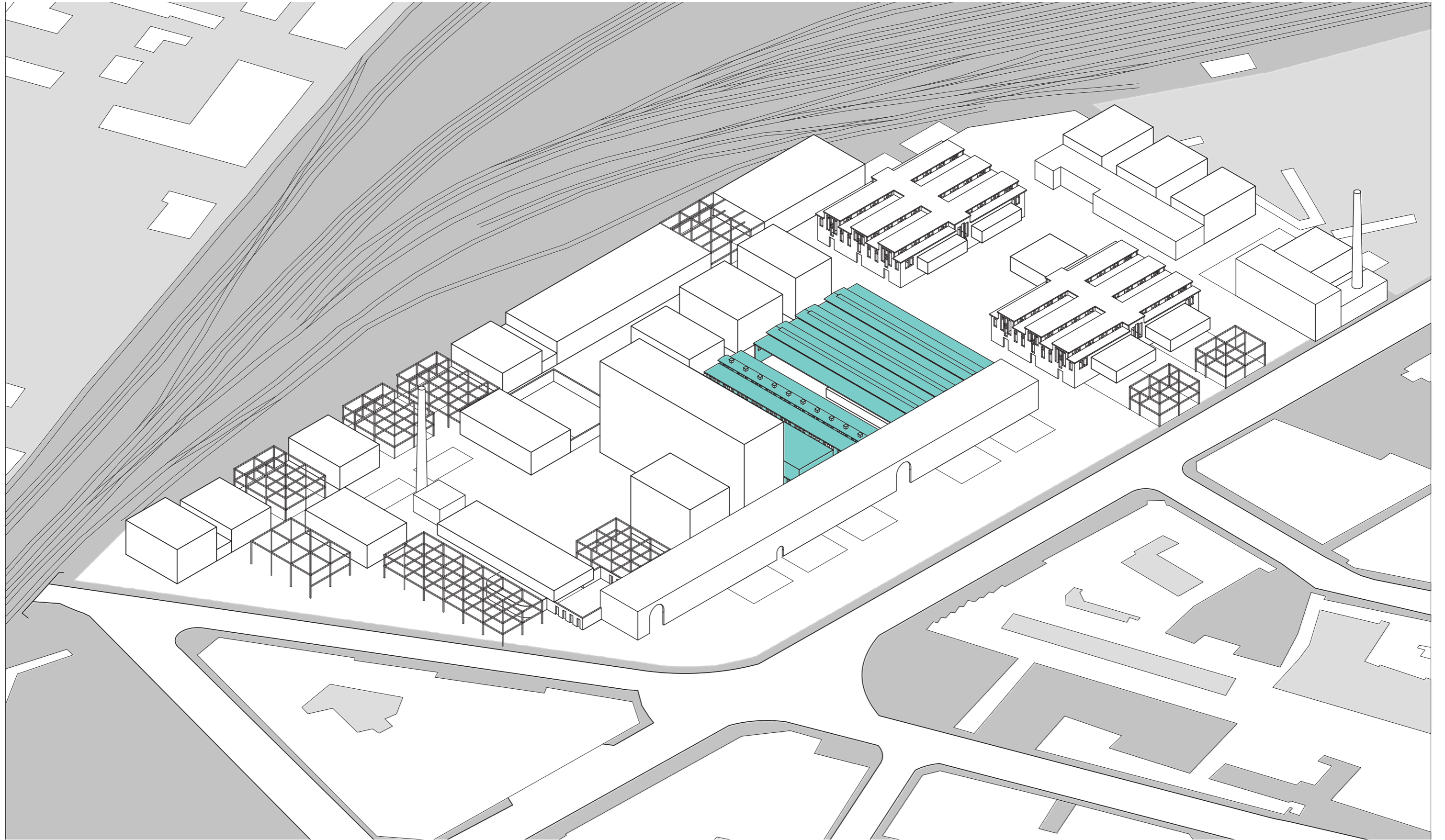
From Fieldwork to Research Question

From Analysis to Intervention Strategy

On Lightness: A Layering Approach

On Lightness: Two Pilot Projects

PILOT PROJECT -REGENERATION OF ABATTOIR REMAINS



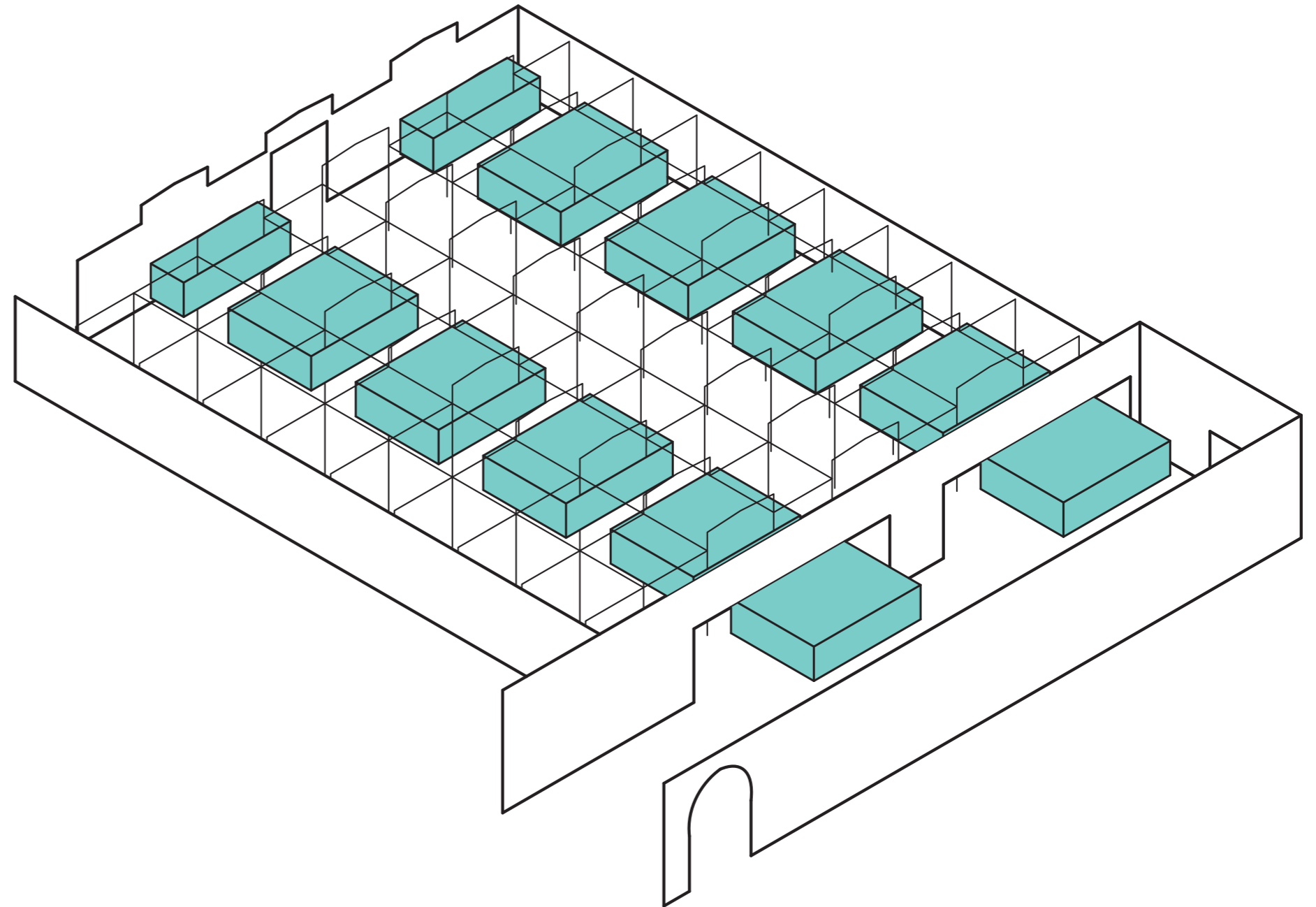
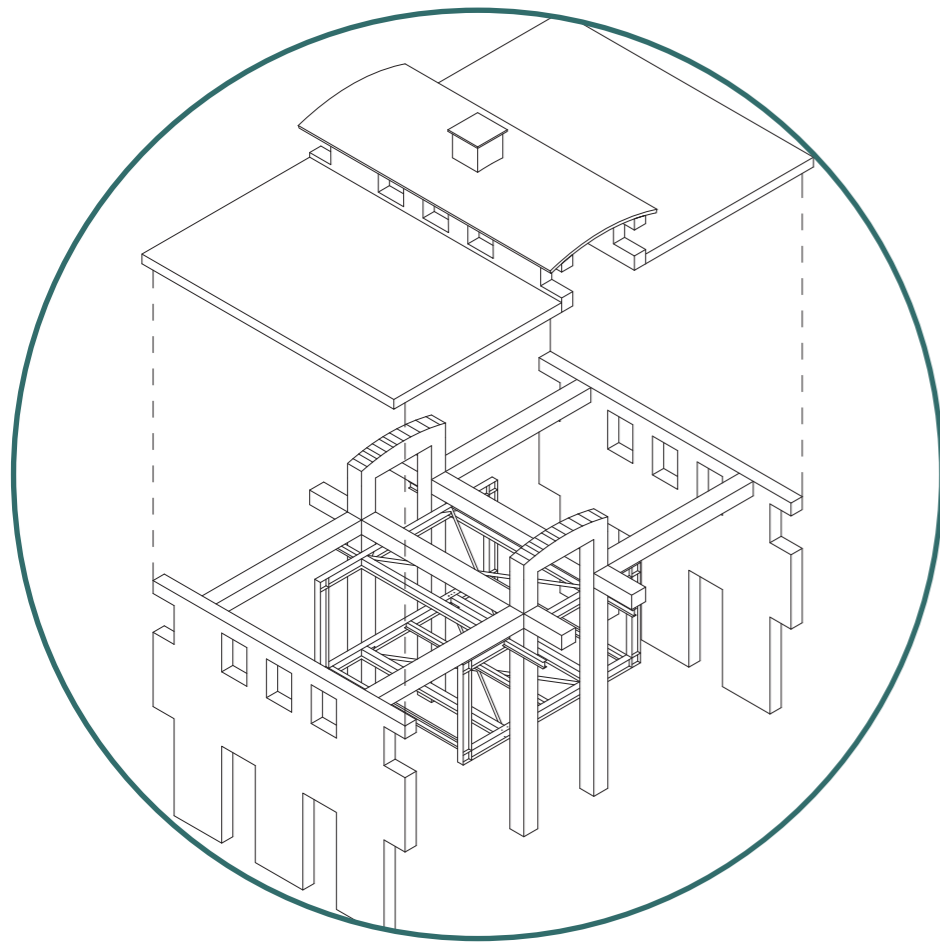
From Fieldwork to Research Question

From Analysis to Intervention Strategy

On Lightness: A Layering Approach

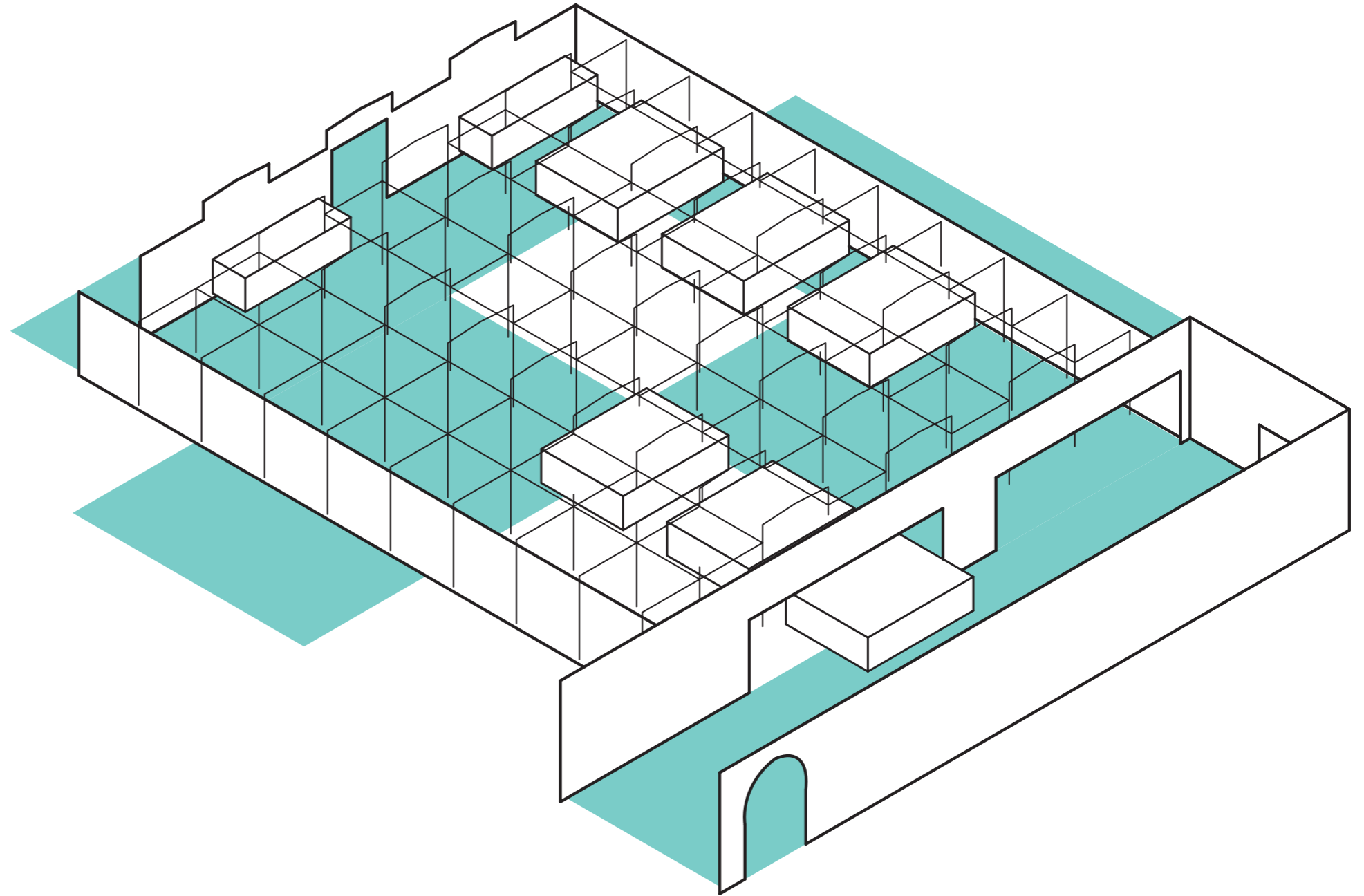
On Lightness: Two Pilot Projects

PILOT PROJECT -REGENERATION OF ABATTOIR REMAINS



Fill into the Original Volume

PILOT PROJECT -REGENERATION OF ABATTOIR REMAINS



Clean up for Public Activities

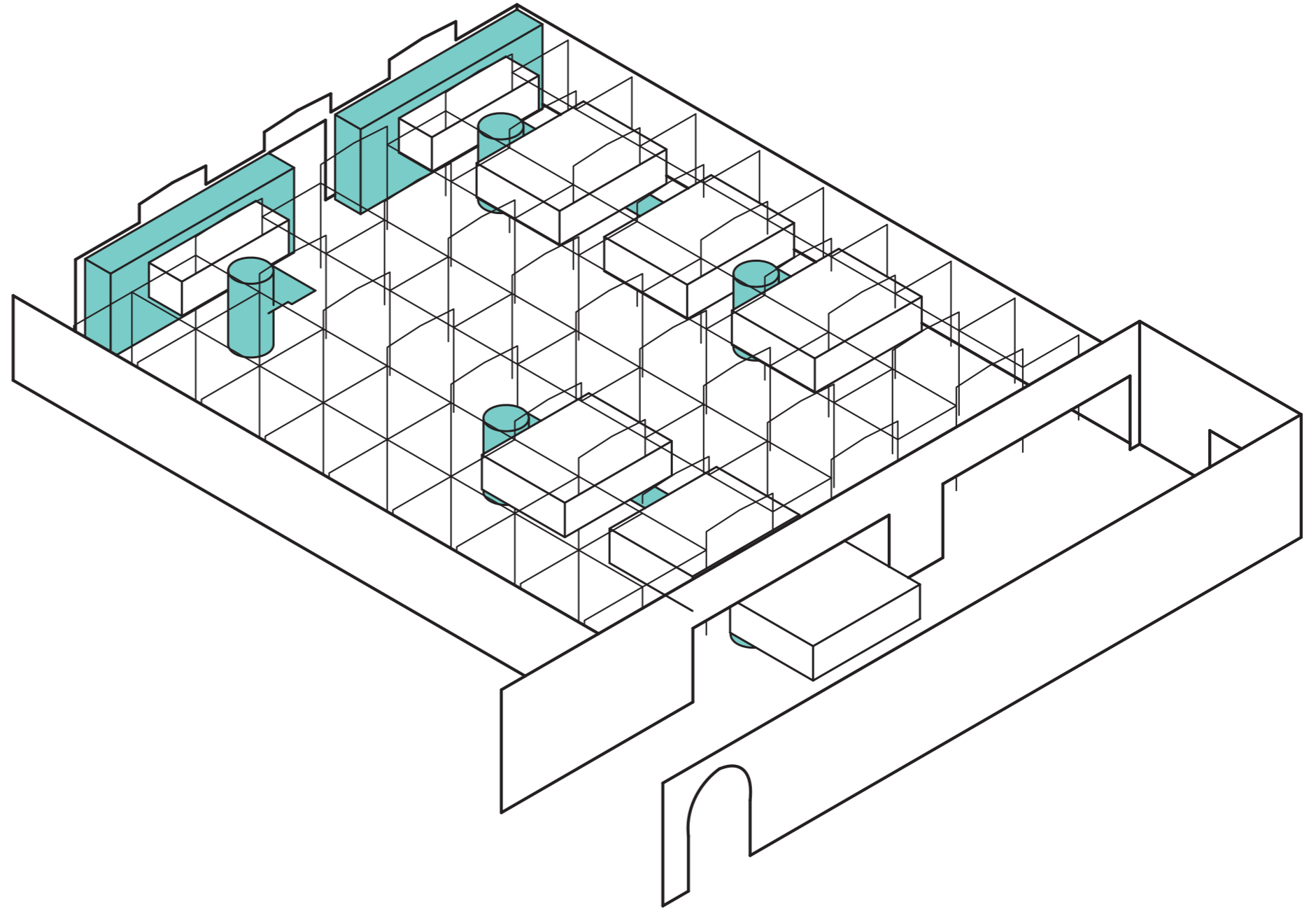
From Fieldwork to Research Question

From Analysis to Intervention Strategy

On Lightness: A Layering Approach

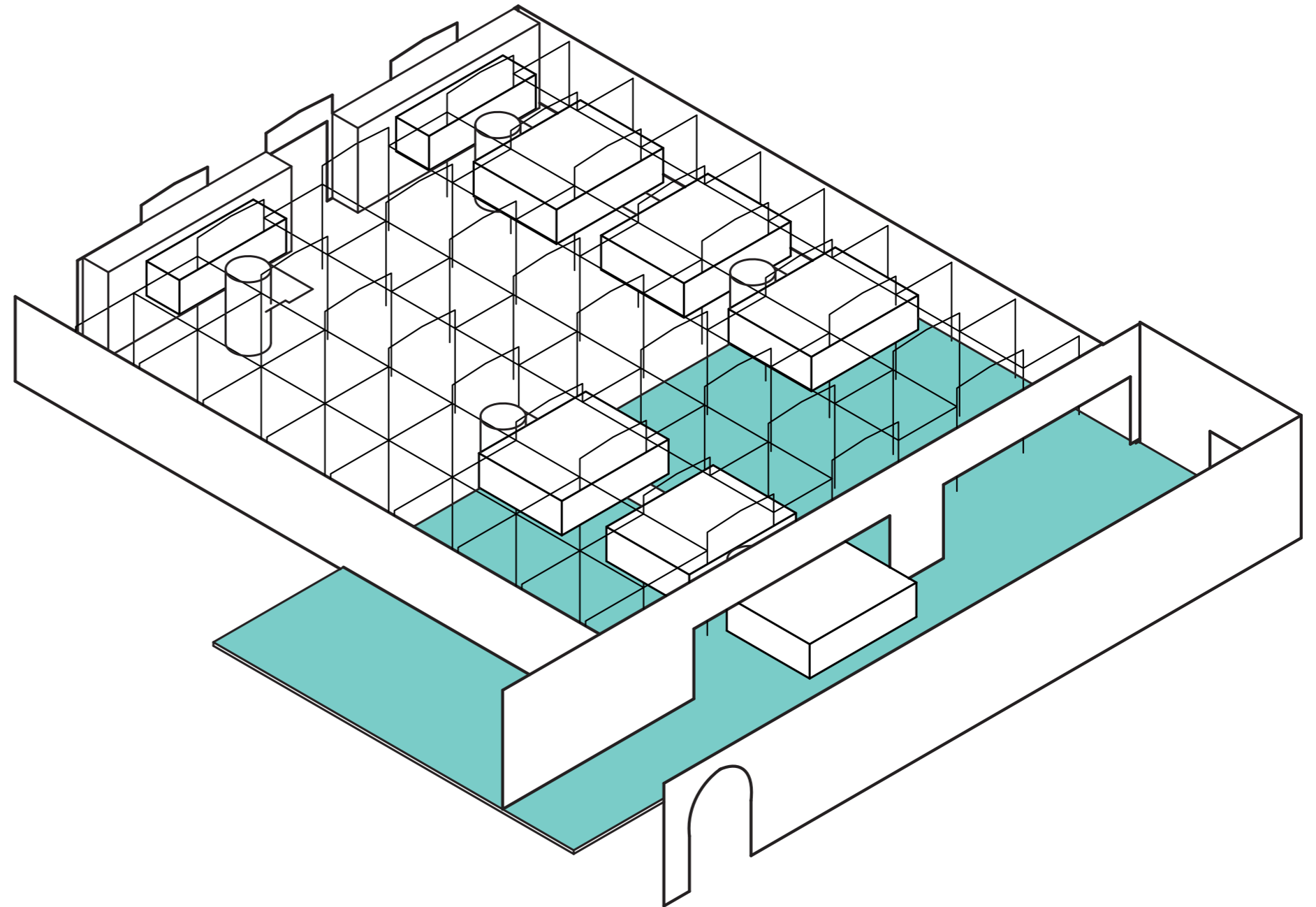
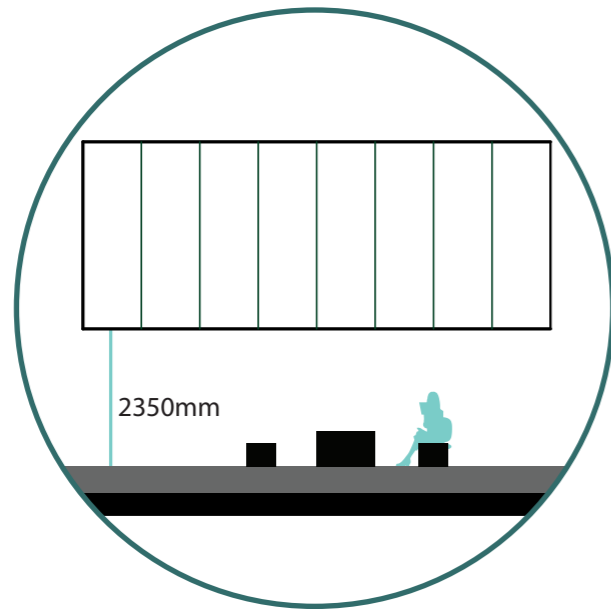
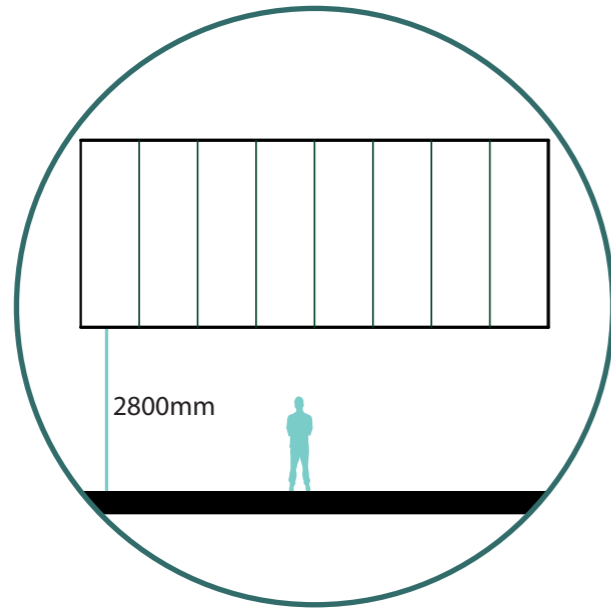
On Lightness: Two Pilot Projects

PILOT PROJECT -REGENERATION OF ABATTOIR REMAINS



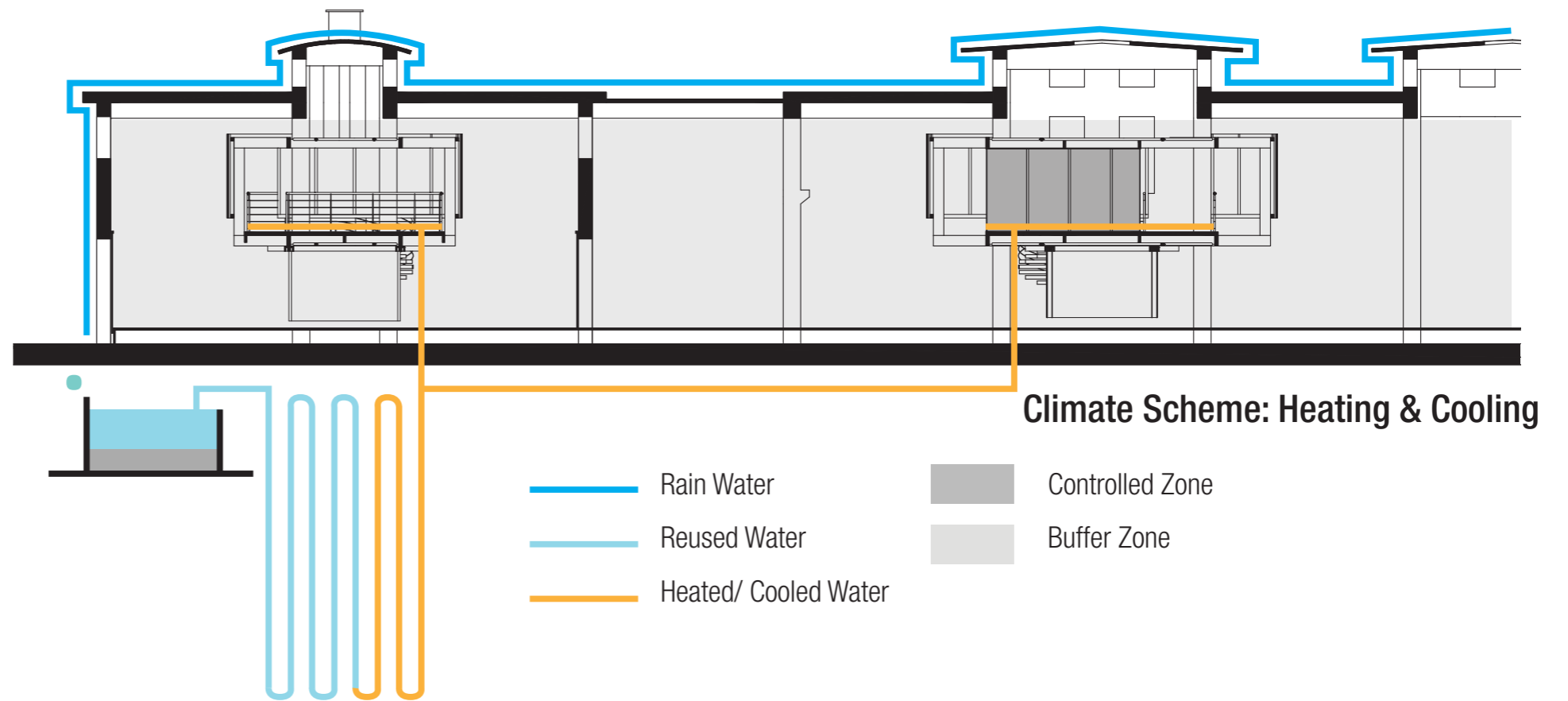
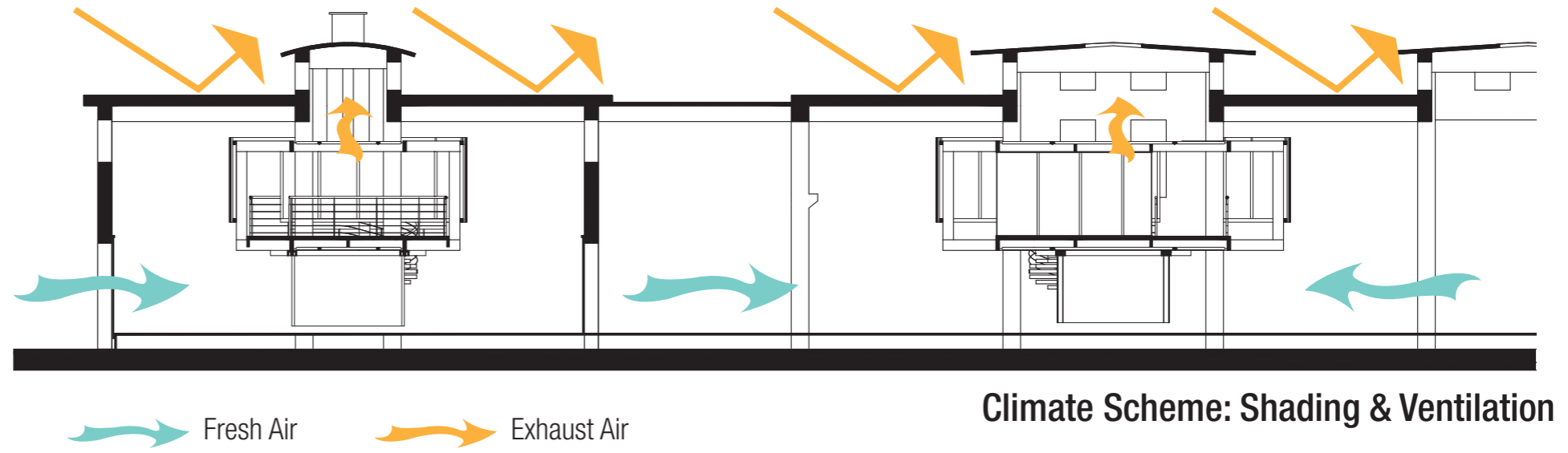
ADD TRANSPORTATION & SERVICE SPACE

PILOT PROJECT -REGENERATION OF ABATTOIR REMAINS

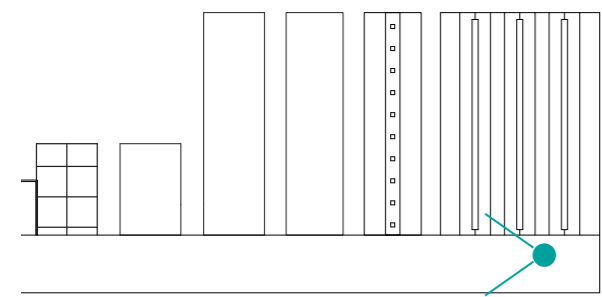


Level Difference for Various Activities

PILOT PROJECT -REGENERATION OF ABATTOIR REMAINS



PILOT PROJECT -REGENERATION OF ABATTOIR REMAINS



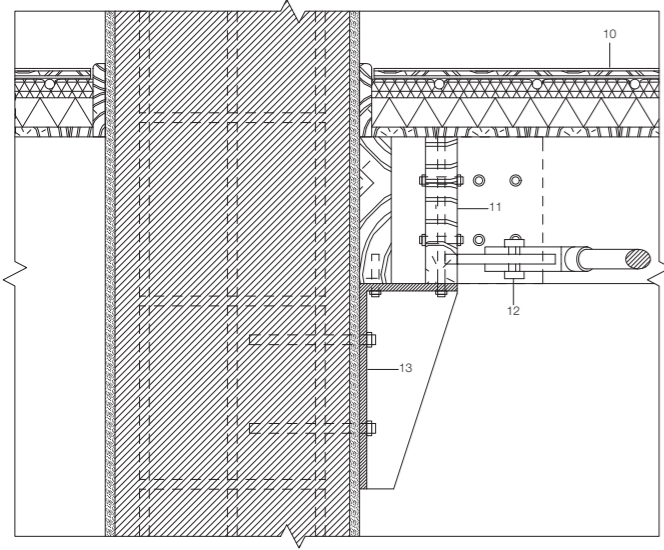
From Fieldwork to Research Question

From Analysis to Intervention Strategy

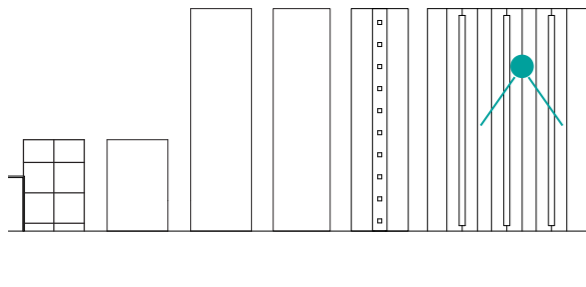
On Lightness: A Layering Approach

On Lightness: Two Pilot Projects

PILOT PROJECT -REGENERATION OF ABATTOIR REMAINS



Detail 1-1 Section 1:5



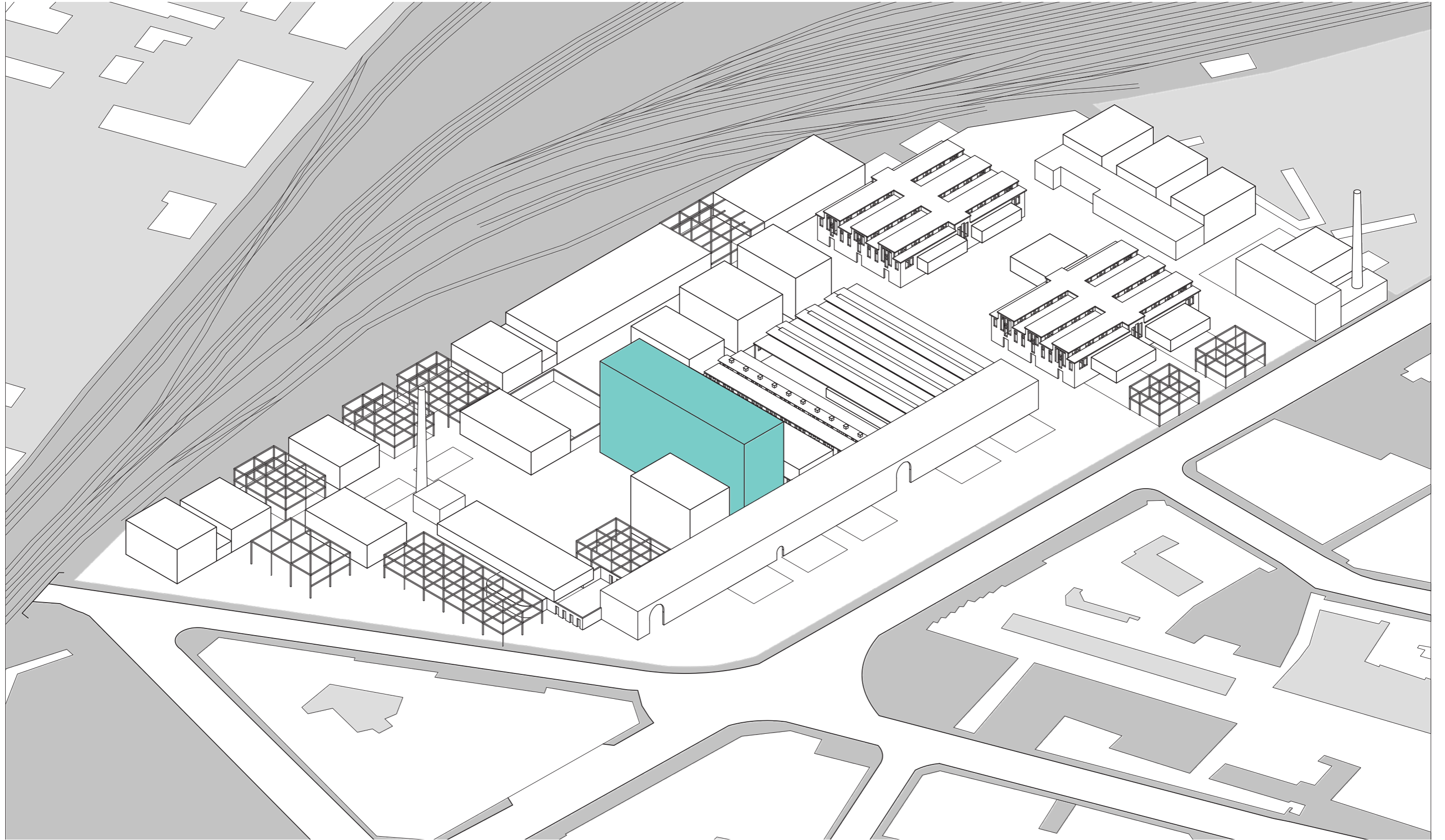
From Fieldwork to Research Question

From Analysis to Intervention Strategy

On Lightness: A Layering Approach

On Lightness: Two Pilot Projects

PILOT PROJECT -THE LANDMARK



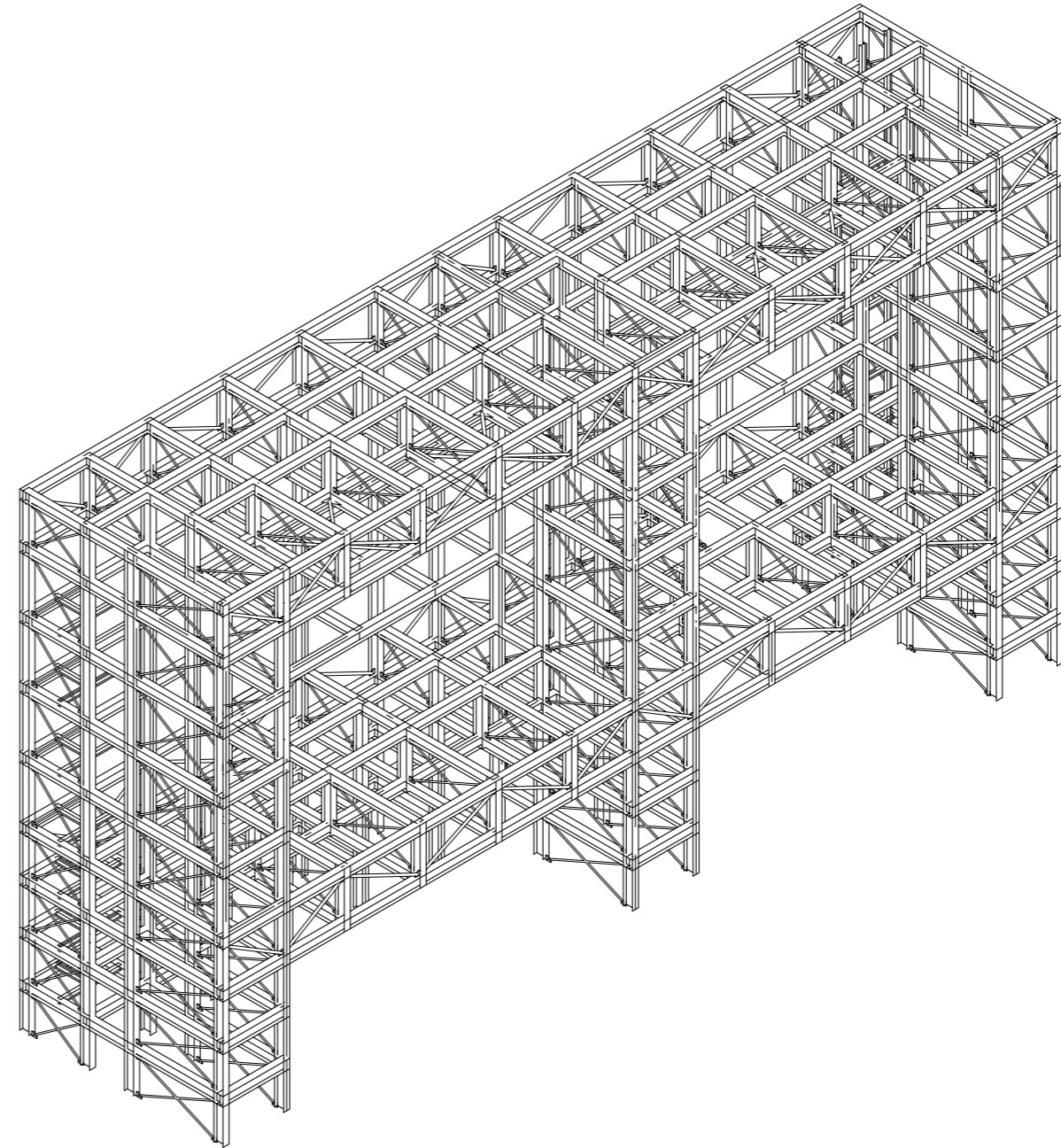
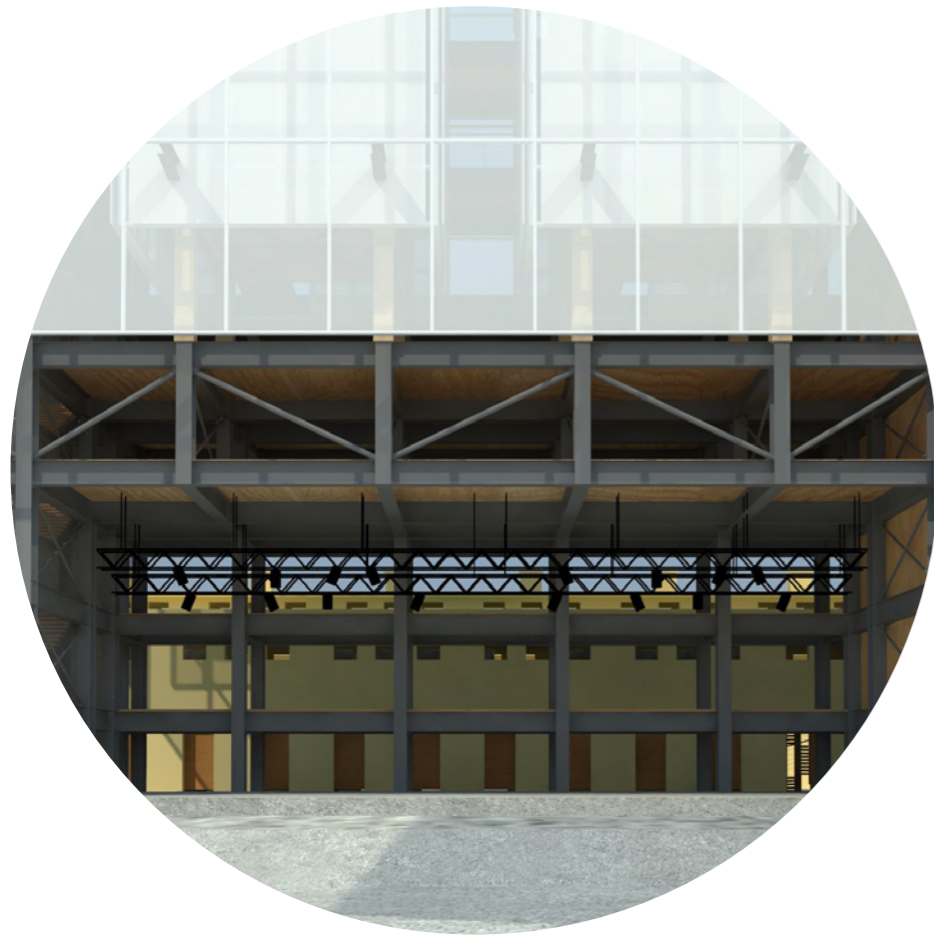
From Fieldwork to Research Question

From Analysis to Intervention Strategy

On Lightness: A Layering Approach

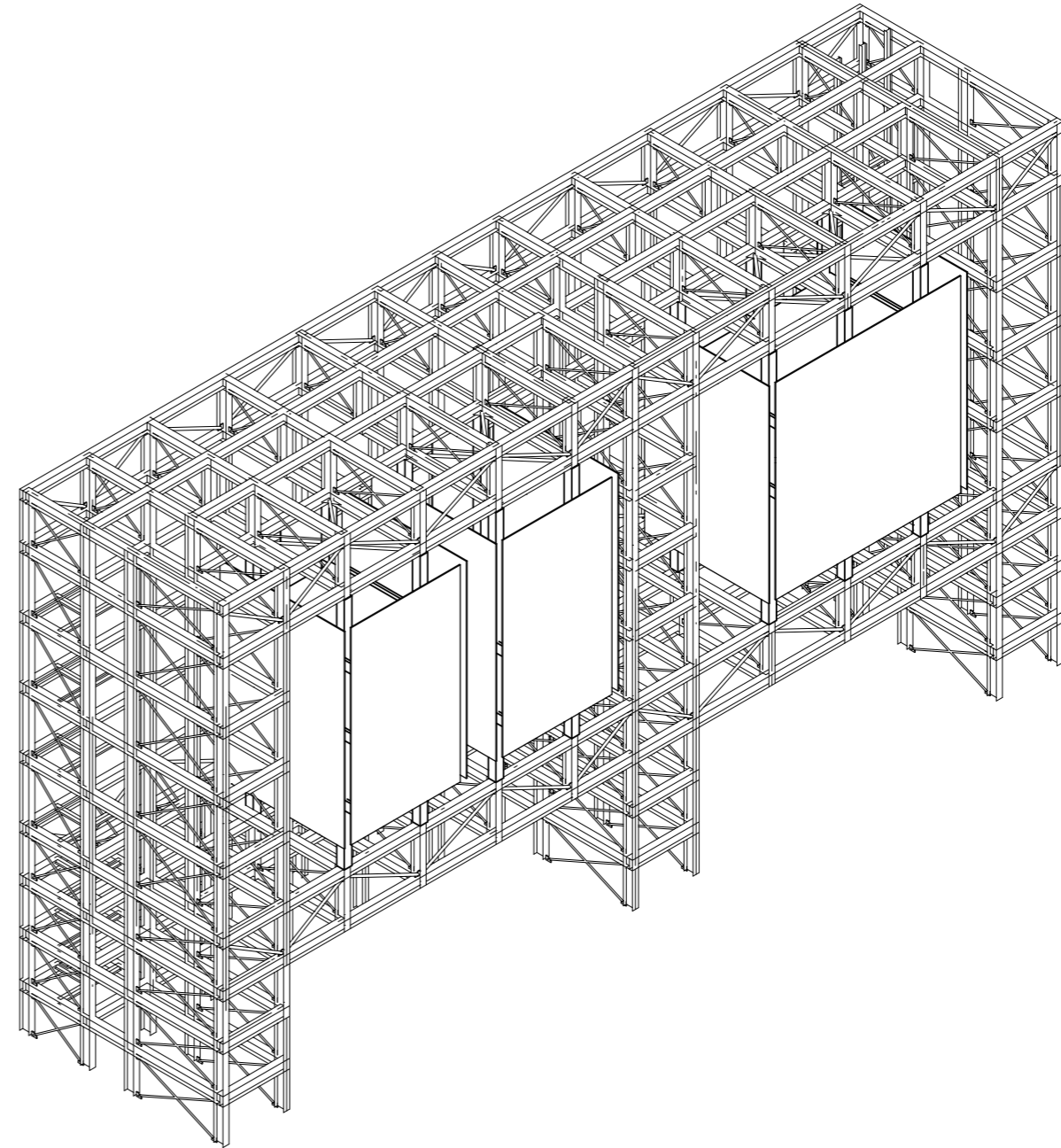
On Lightness: Two Pilot Projects

PILOT PROJECT -THE LANDMARK



Structure System : Deliberate Void Space

PILOT PROJECT -THE LANDMARK



Plug into Balloons

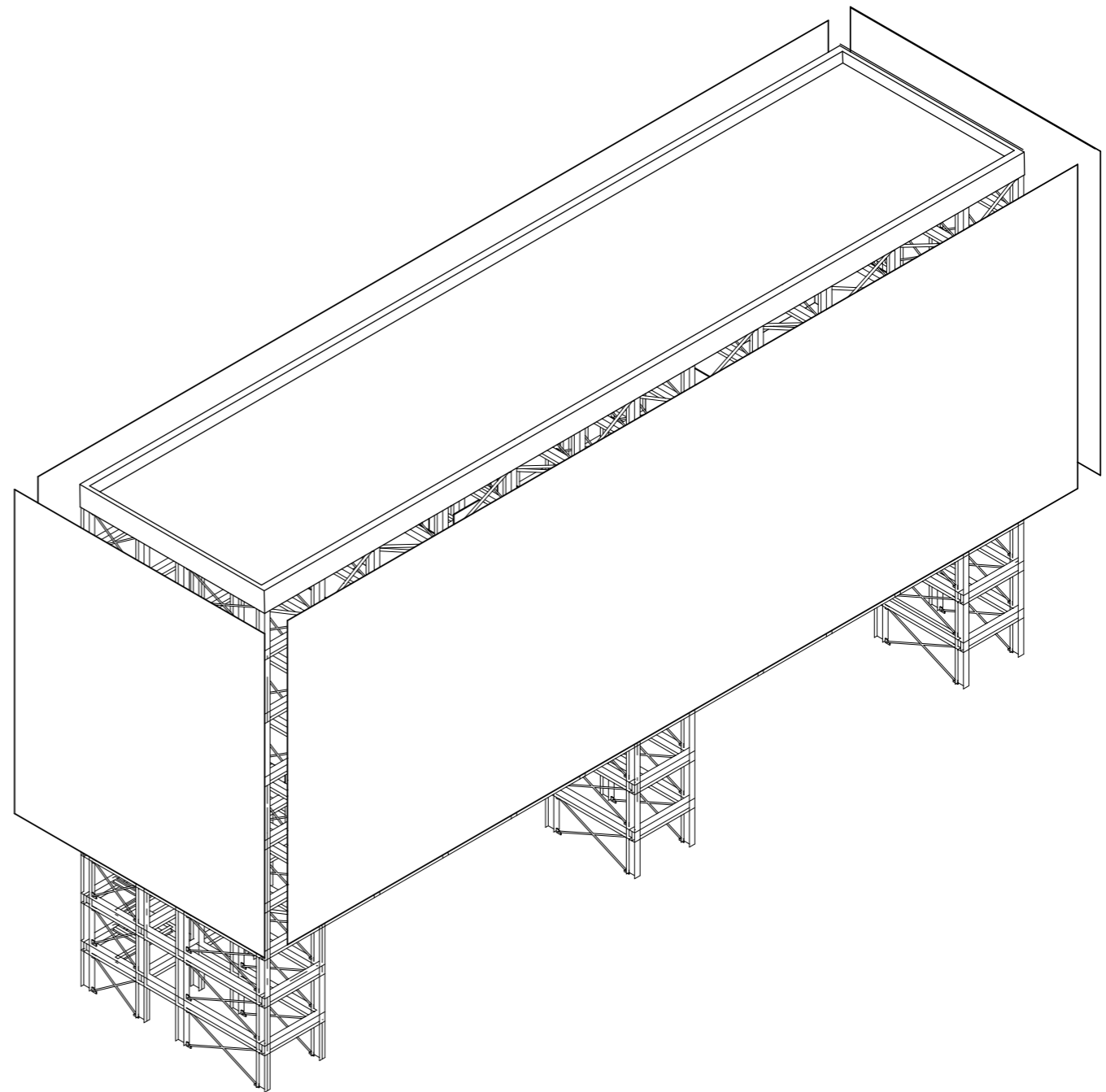
From Fieldwork to Research Question

From Analysis to Intervention Strategy

On Lightness: A Layering Approach

On Lightness: Two Pilot Projects

PILOT PROJECT -THE LANDMARK



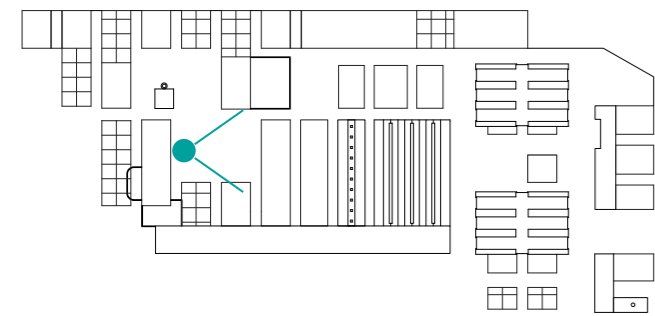
Exploded Outer Facade

PILOT PROJECT -THE LANDMARK



Void inside Void

PILOT PROJECT -THE LANDMARK



From Fieldwork to Research Question

From Analysis to Intervention Strategy

On Lightness: A Layering Approach

On Lightness: Two Pilot Projects



Thank you