



Cultivating Heritage

Recuperating Dutch Colonial Architecture's Relation to Local Community's Practices through Heritage and Socio-Cultural Approaches in Kota Lama Semarang

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Chair of Heritage & Architecture \ Shared Heritage Lab Semarang
TU Delft \ July 2nd, 2020

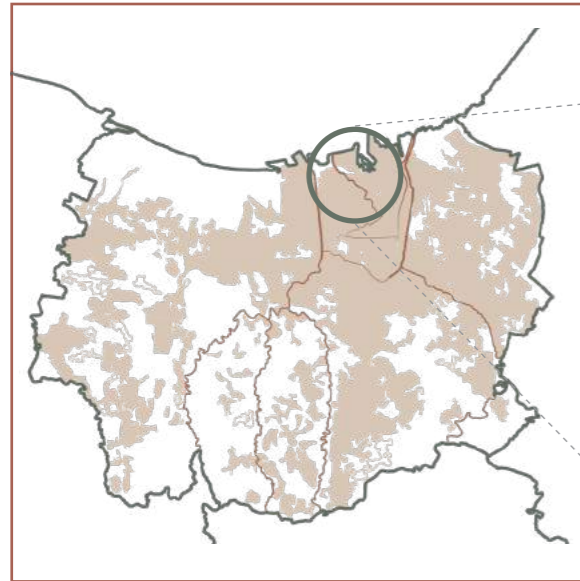


Rijksdienst voor het Cultureel Erfgoed
Ministerie van Onderwijs, Cultuur en
Wetenschap



University Fund

1. Fascinations and Ambitions
2. Urban Research and Strategy
3. Transformation Research and Design Proposal
4. Conclusions and Reflections



Semarang, Indonesia



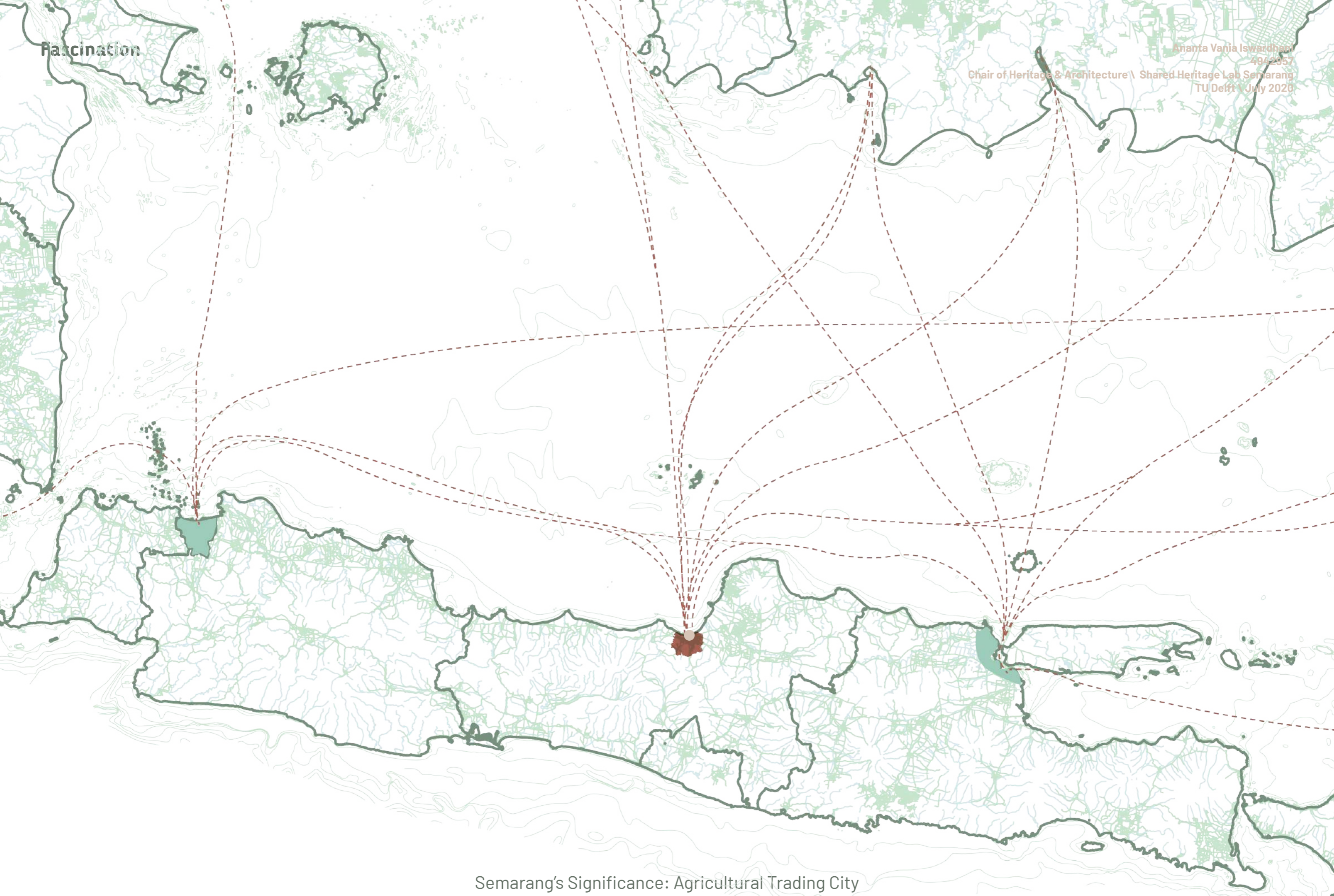
Semarang Historical Area

Shared Heritage Lab Studio's Question

How to **revitalise the former colonial city center of Semarang** into an inclusive, thriving and healthy environment for working, living and leisure **taking the specific water-related challenges and the rich culture** of the city into account?

Fascination

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Semarang's Significance: Agricultural Trading City

1830

Cultuurstelsel



1890

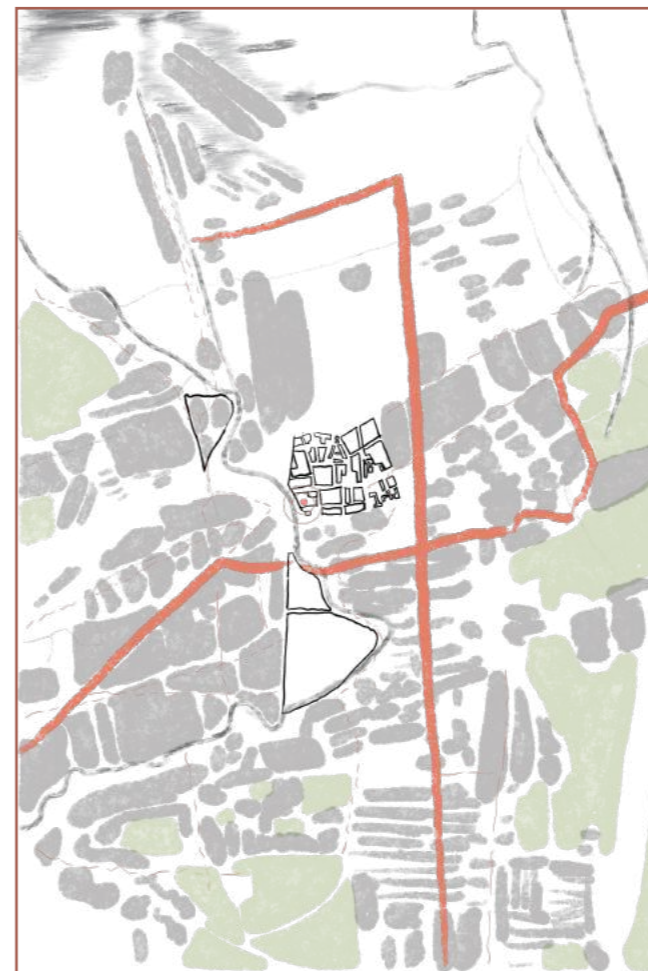
Liberal Politic



1945 Independence

1950

"Gotong Royong"



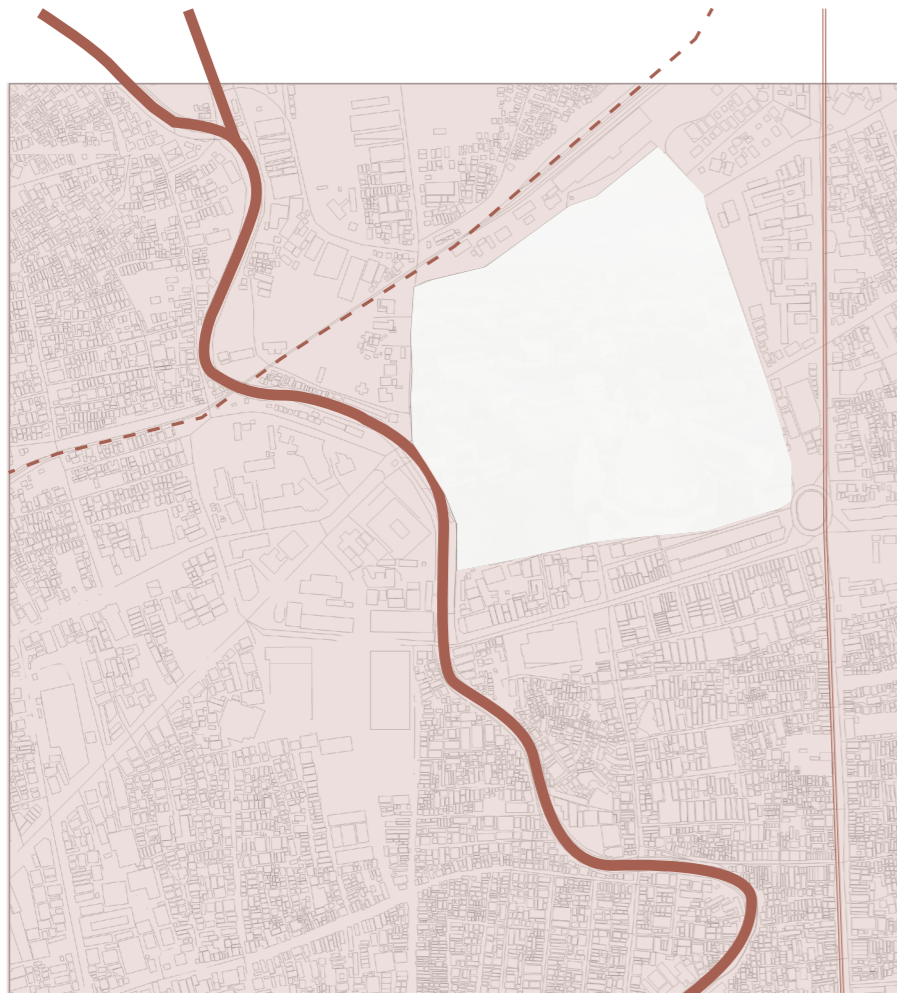
2019

Informal Trading Domination



- Production Land
- Trading Transport
- Settlements

Agricultural Practice's Implications on Urban Fabrics of Semarang Historical Area



415,83 ha "Kampung Kota"
Organic Settlements Surface



Vulnerable Communities
25.3% unemployed or employed in informal sectors



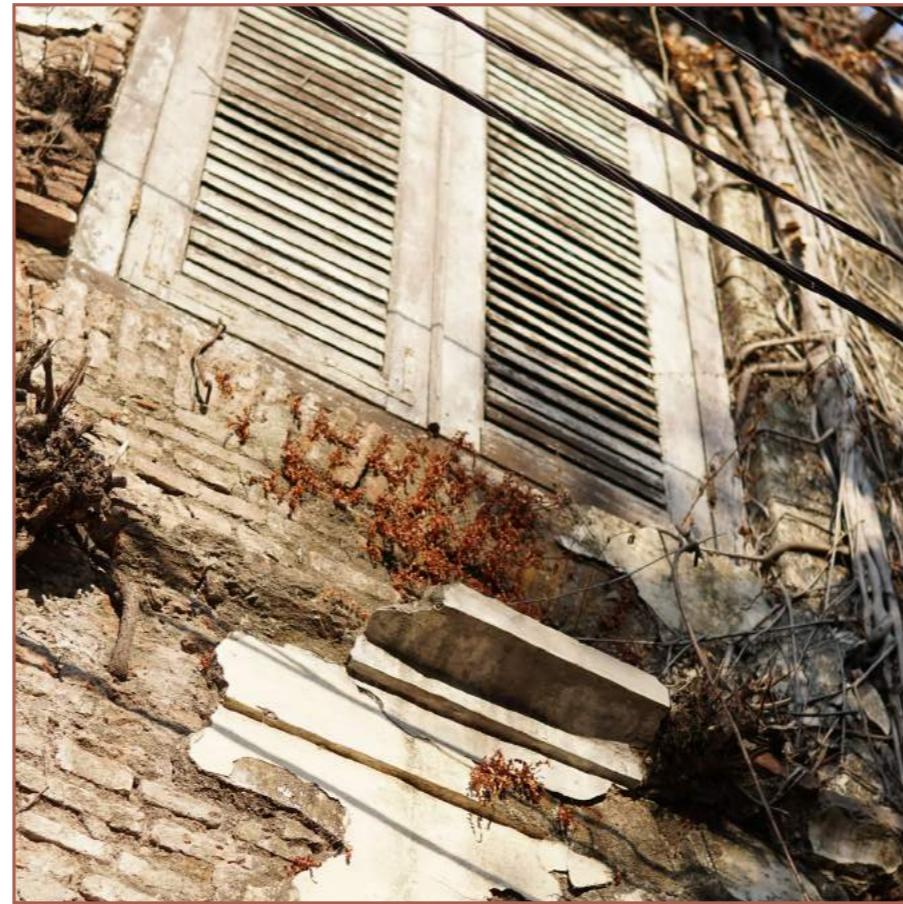
6400m³ waste/day
46.43 air pollution index, 42.86 water pollution index

Kampung Kota, Semarang Historical Area, 2019



Kota Lama
Former Dutch Quarter

Kadhan Ruskanda, 2019



30% Abandoned Buildings
Deteriorating

Marijn Heijnis, 2019



Treated as Icon and Photo Background
Disconnected from Community's Practices

Abandoned and Disconnected Kota Lama, Semarang Historical Area

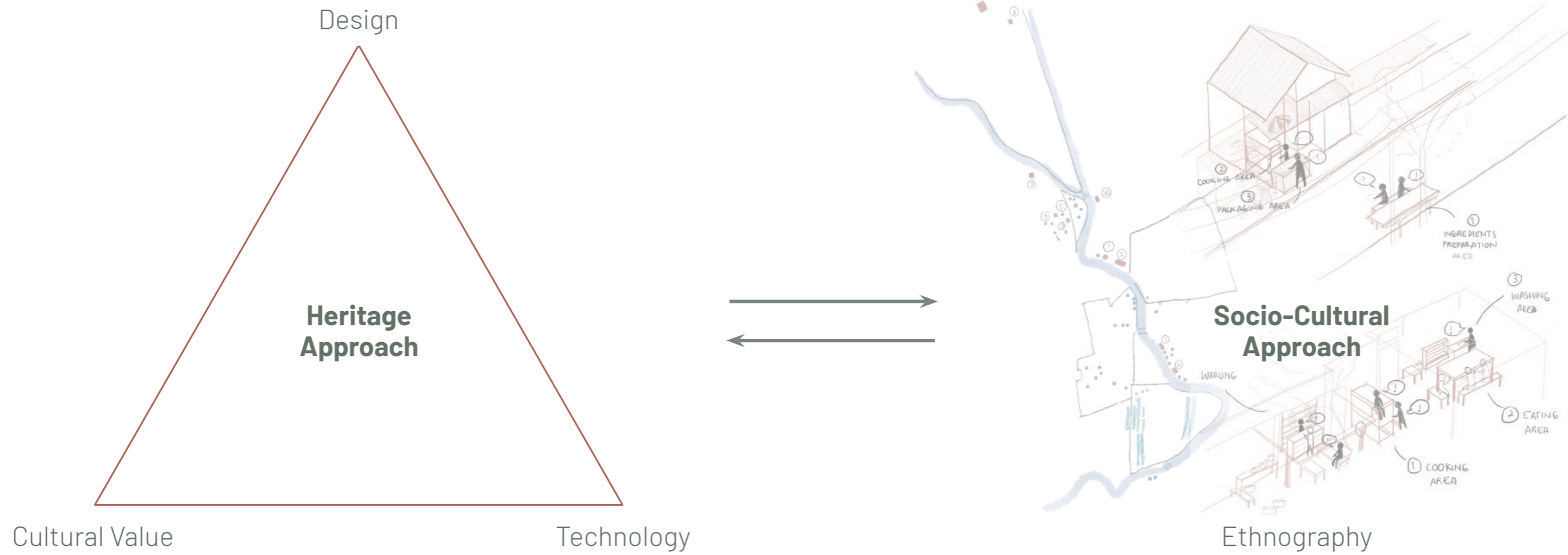


"Forbidden for Indonesians and Dogs", sign commonly found in Dutch quarter
Disconnection Between Dutch Colonial Heritage and Local Community's Practices



How can shared heritage architecture that embodies a conflictual past be appropriated as a part of local community's practices in Kota Lama Semarang?

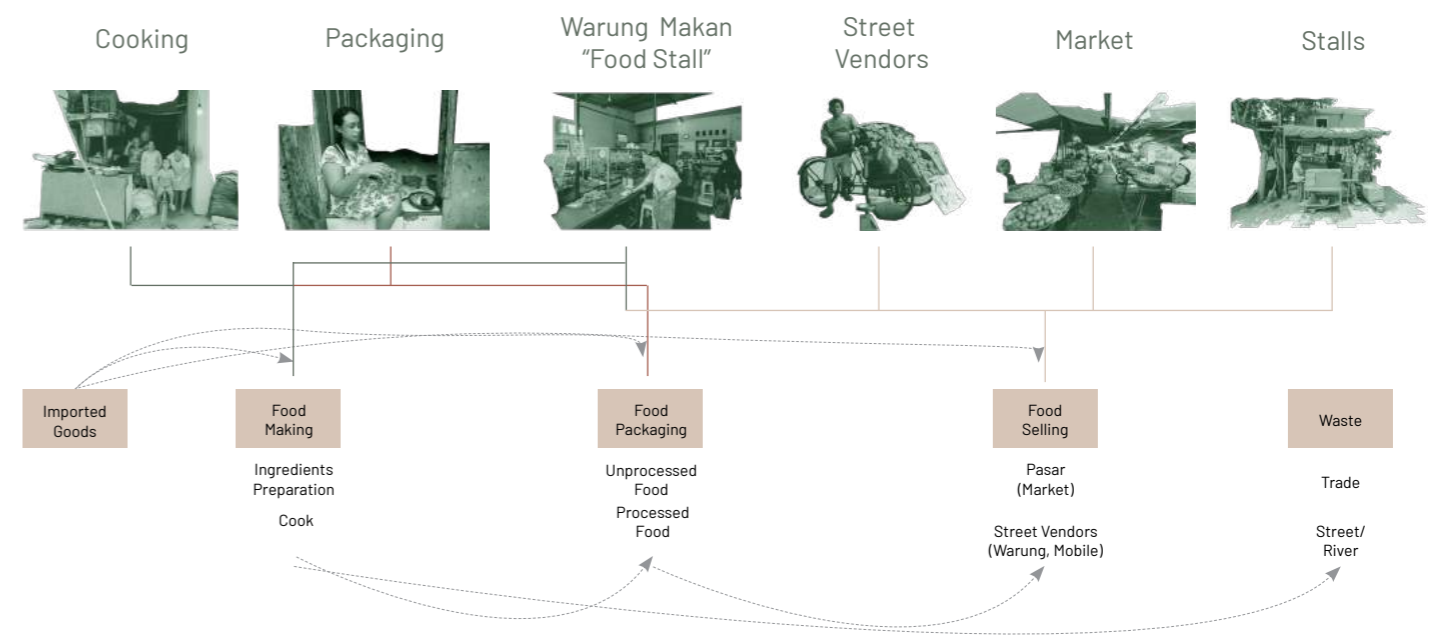
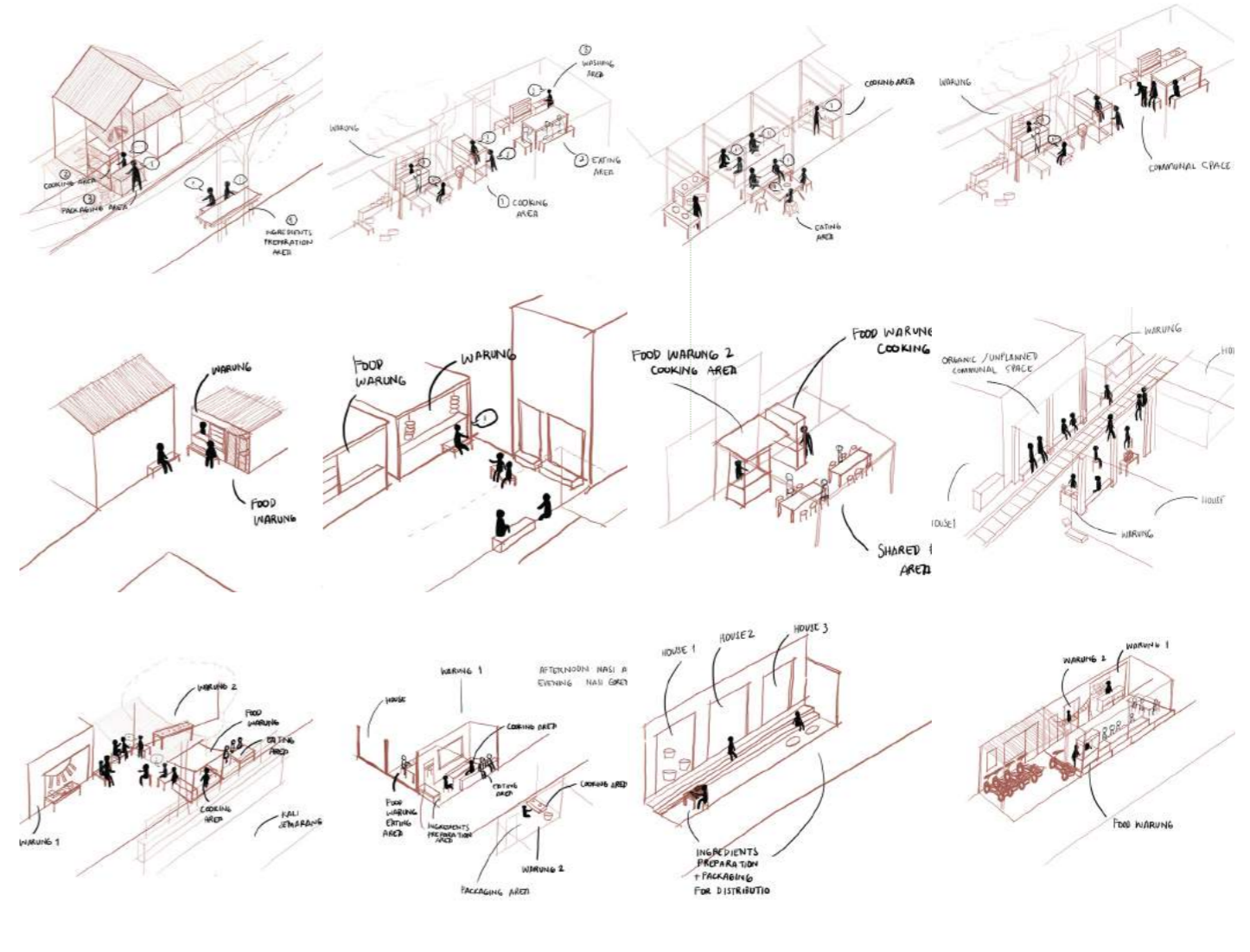
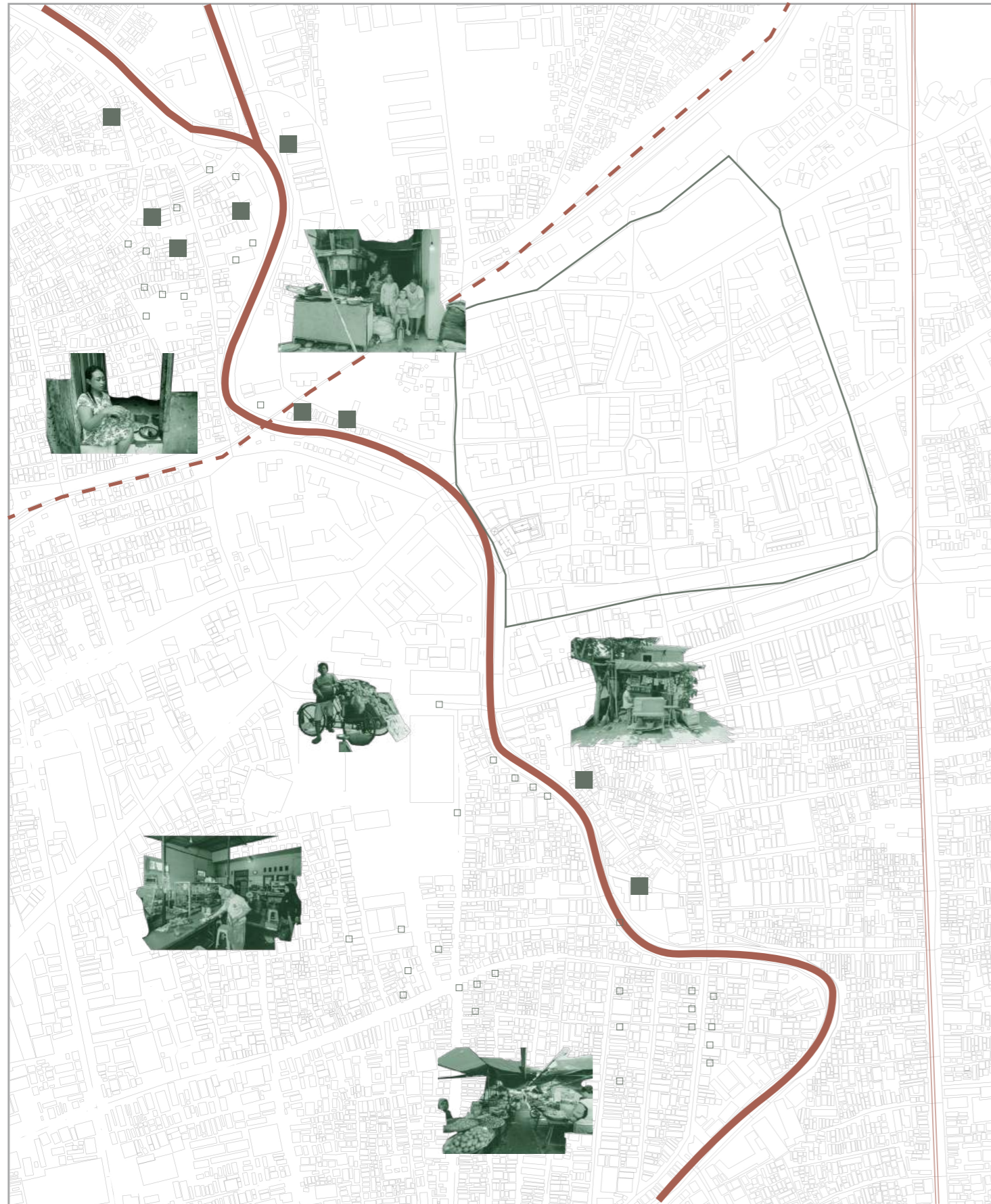
How can shared heritage be used as a tool to improve the agricultural trading practices and its relation to the natural environment?



Shared heritage embodies knowledge and history of the past that can be utilized as a constructive mean to move forward.

Project's View on Shared Heritage Notion

Urban Strategy



Ethnographic Mapping and Interview: Food/Agricultural Trading Practice in Semarang Historical Area



"Gotong Royong"

1830

Cultuurstelsel



1890

Liberal Politic



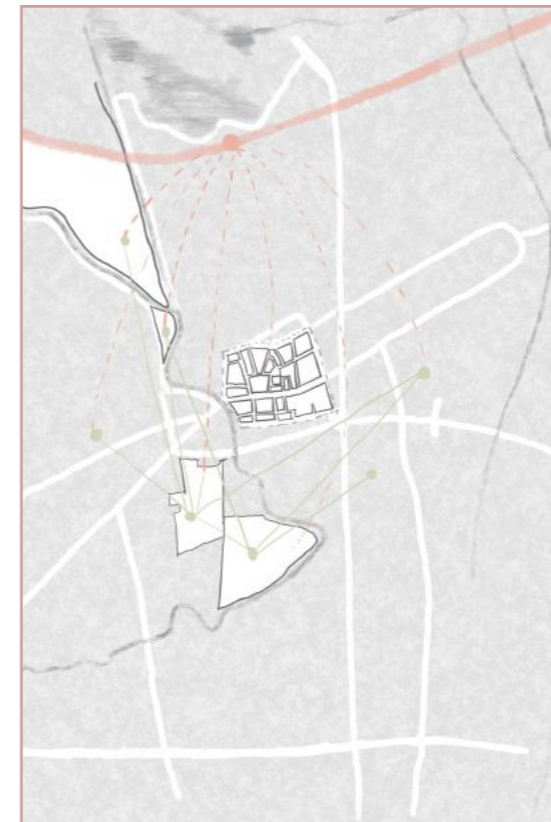
1950

"Gotong Royong"

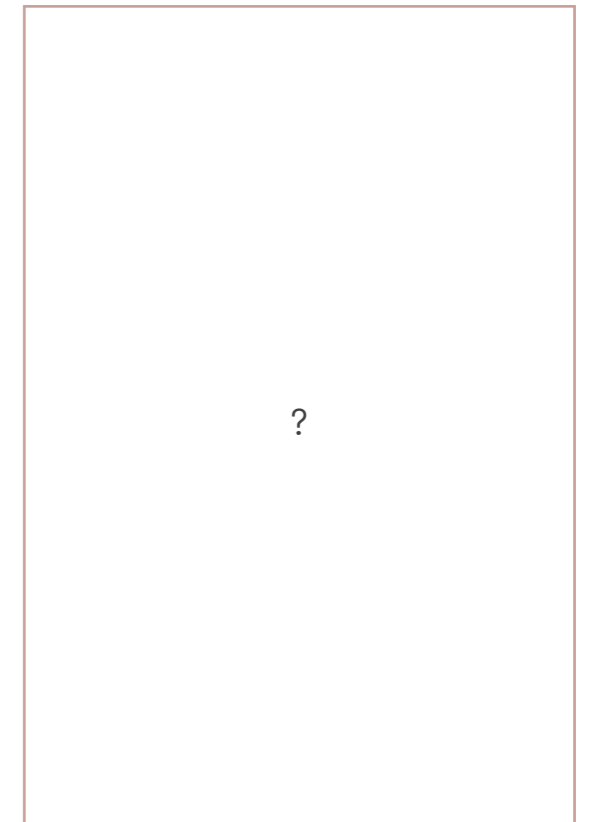


2019

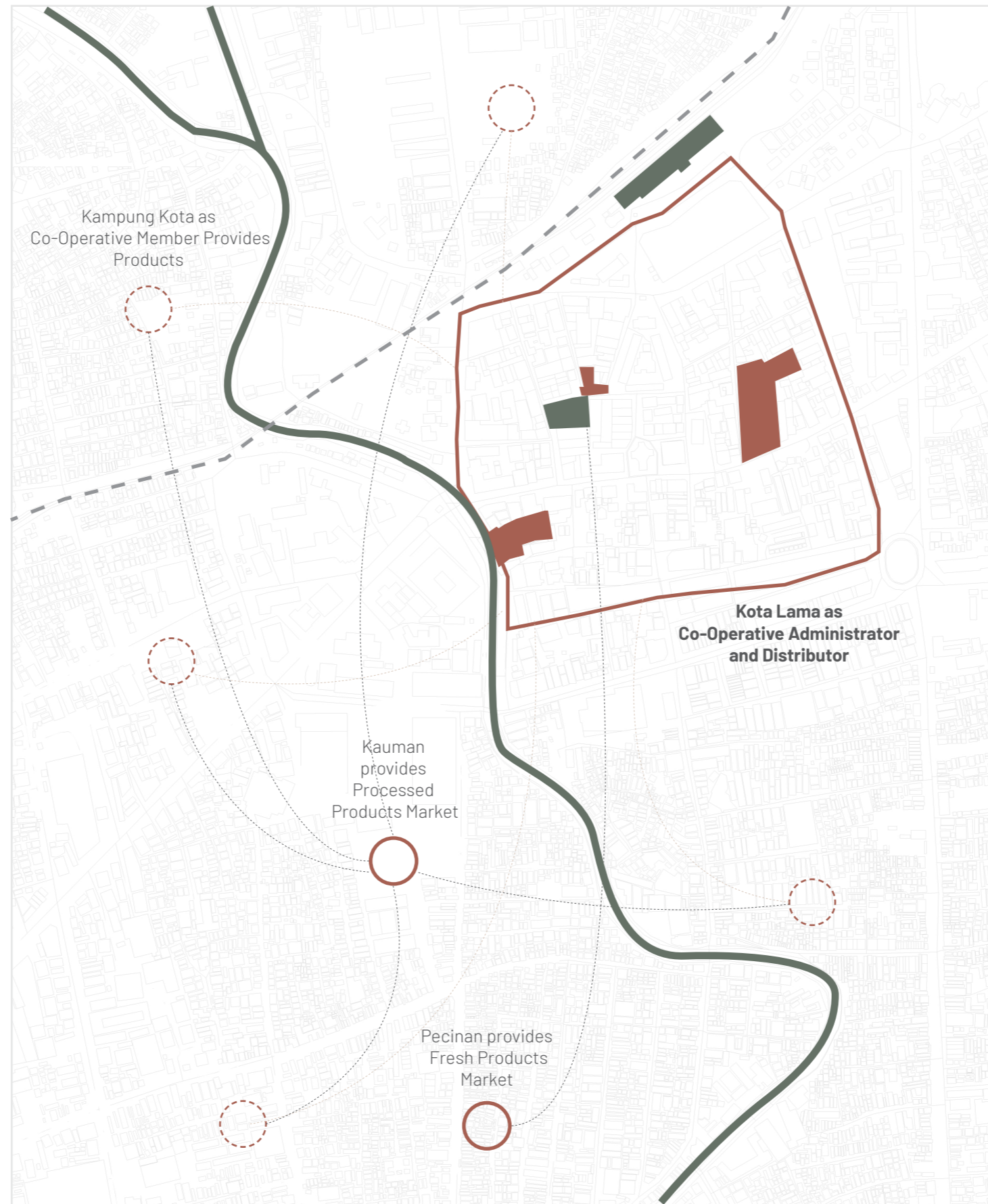
Informal Trading
Domination



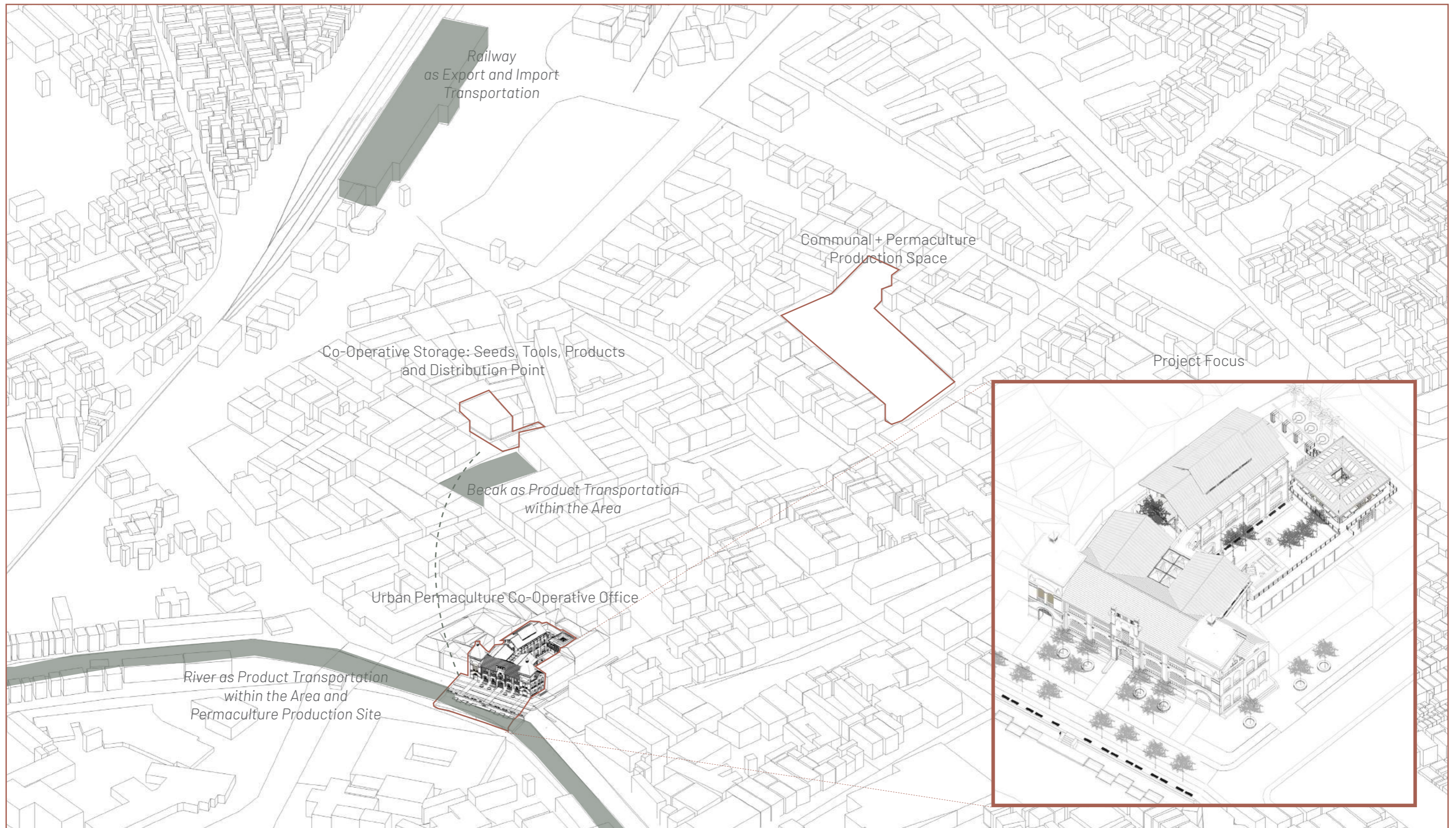
Future



What's Next?



Urban Permaculture Co-Operative Scheme in Semarang Historical Area



Interventions of Urban Permaculture Co-Operative in Kota Lama Semarang



Chosen Site: Abandoned PT Perkebunan Nusantara IX Building



Former Agricultural Trading Office



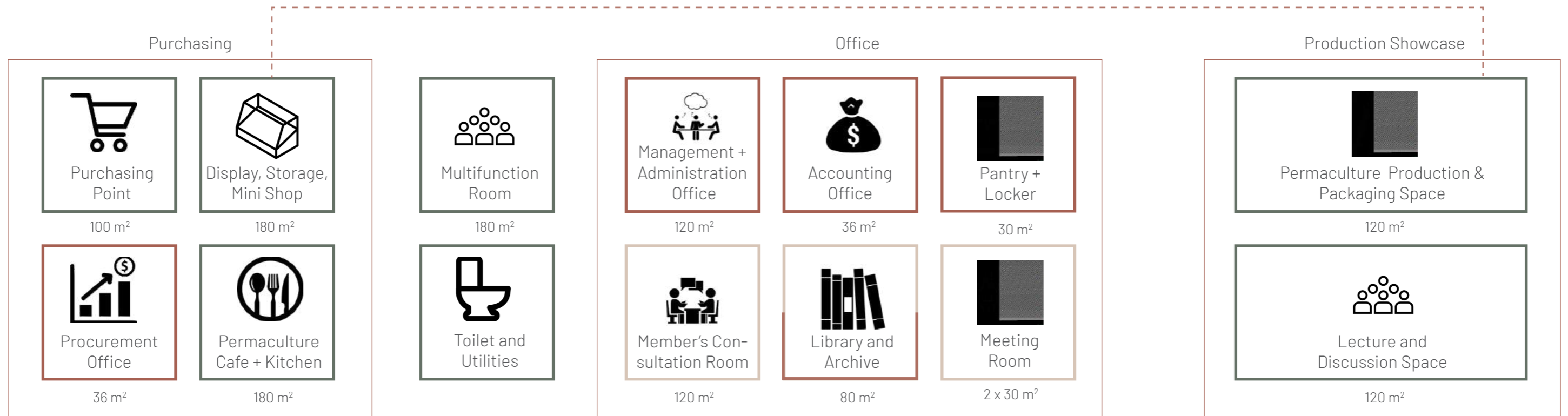
Conflictual Past



Prominent Location and Linked to Storage

Former NV Cultuur Maatschappij der Vorstenlanden, Architect: C.H Lughten 1888

Program and Building Analysis



- Public
- Co-Operative Member
- Co-Operative Staff
- Co-Operative Member
- Co-Operative Staff
- Co-Operative Staff

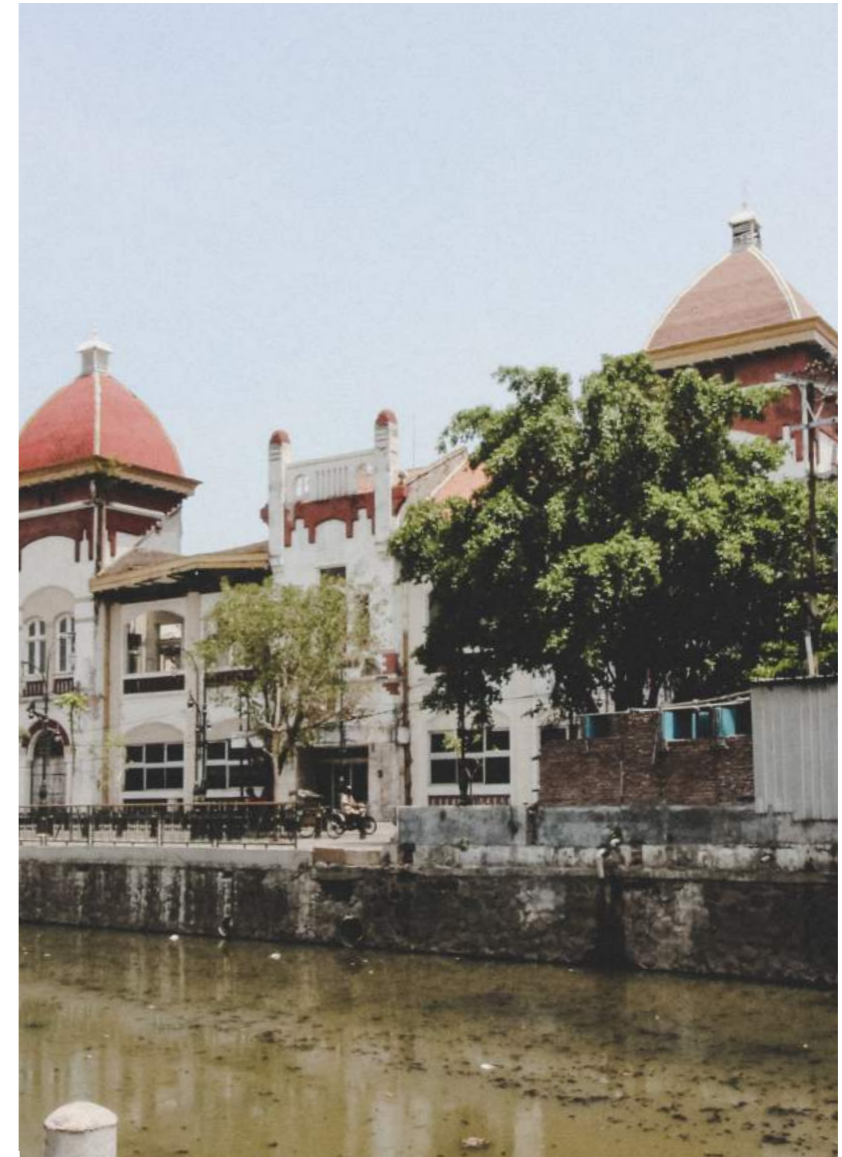
1912 Cultuurmaatschappij der Vorstenlanden



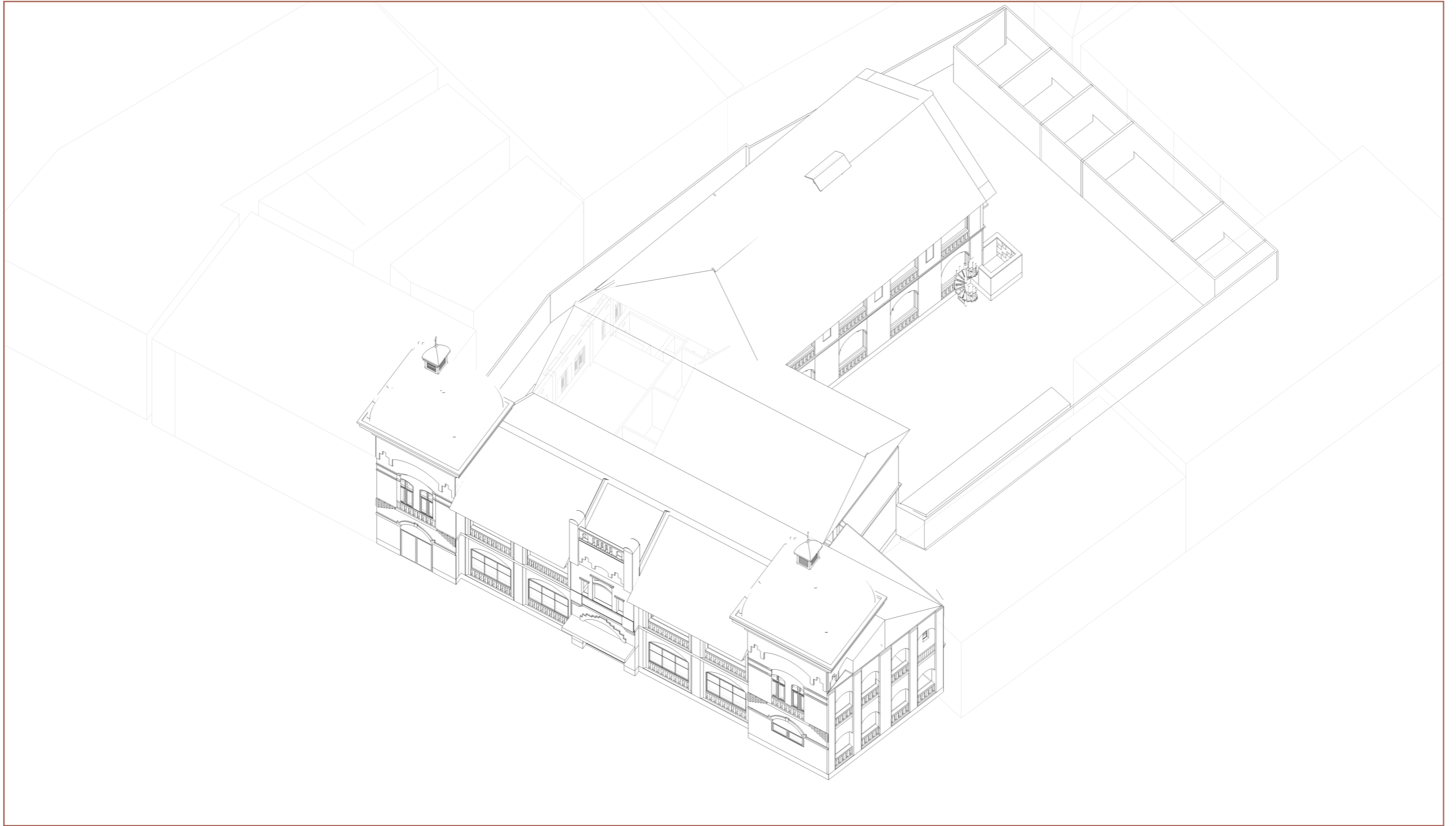
1974 PT. Perkebunan Nusantara IX



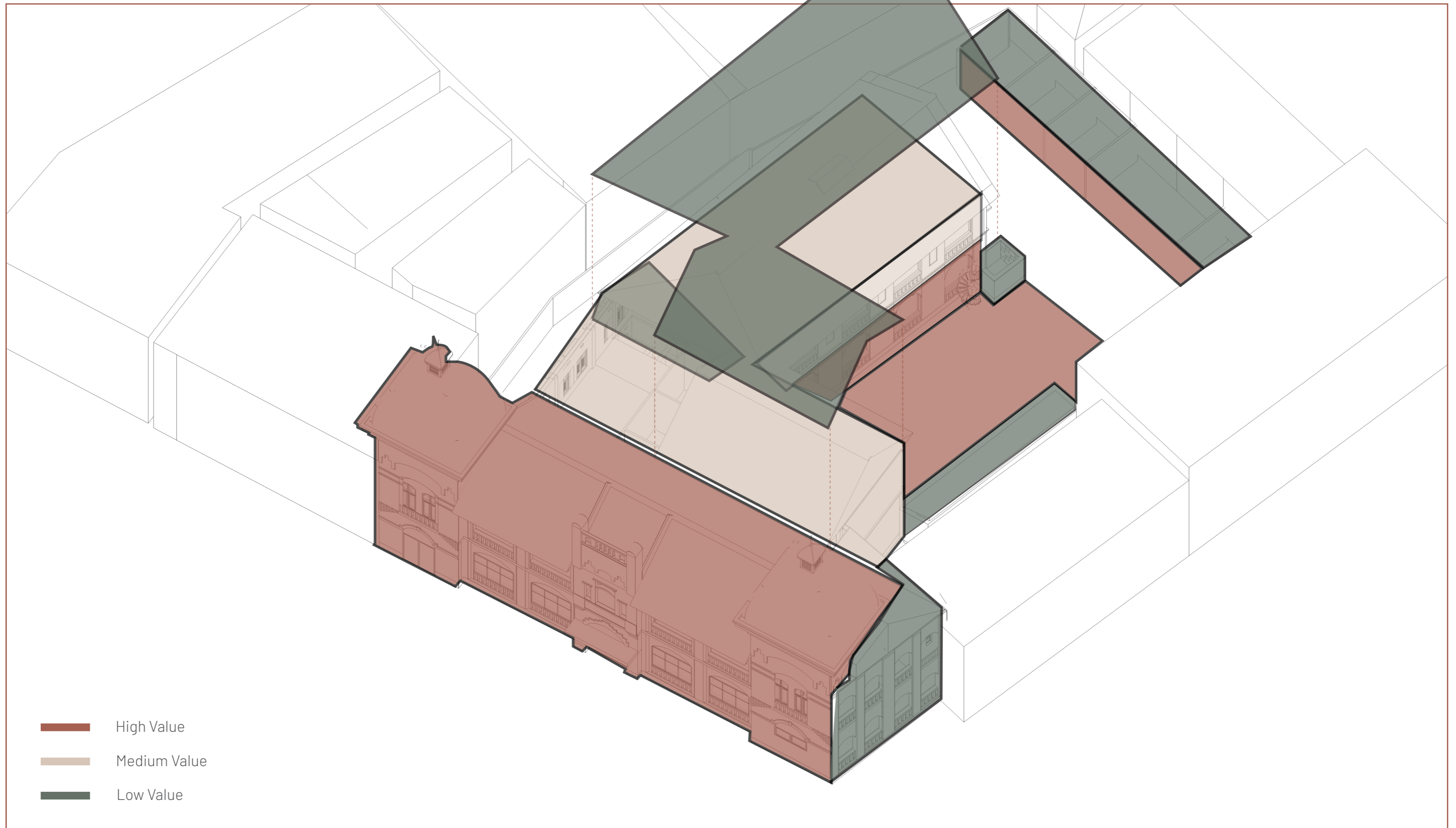
2019 Abandoned



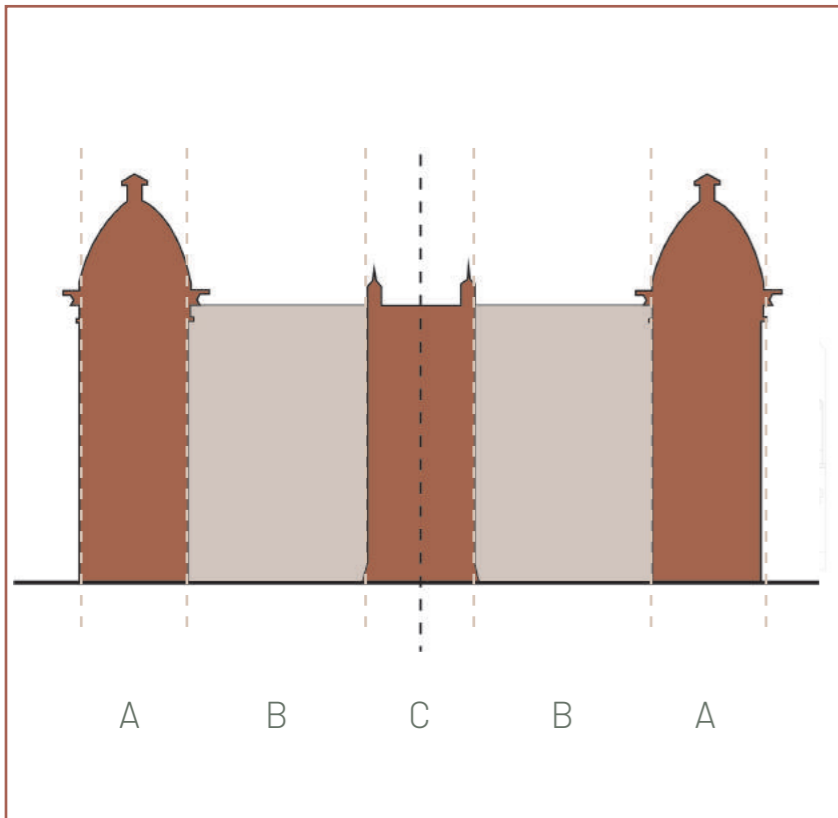
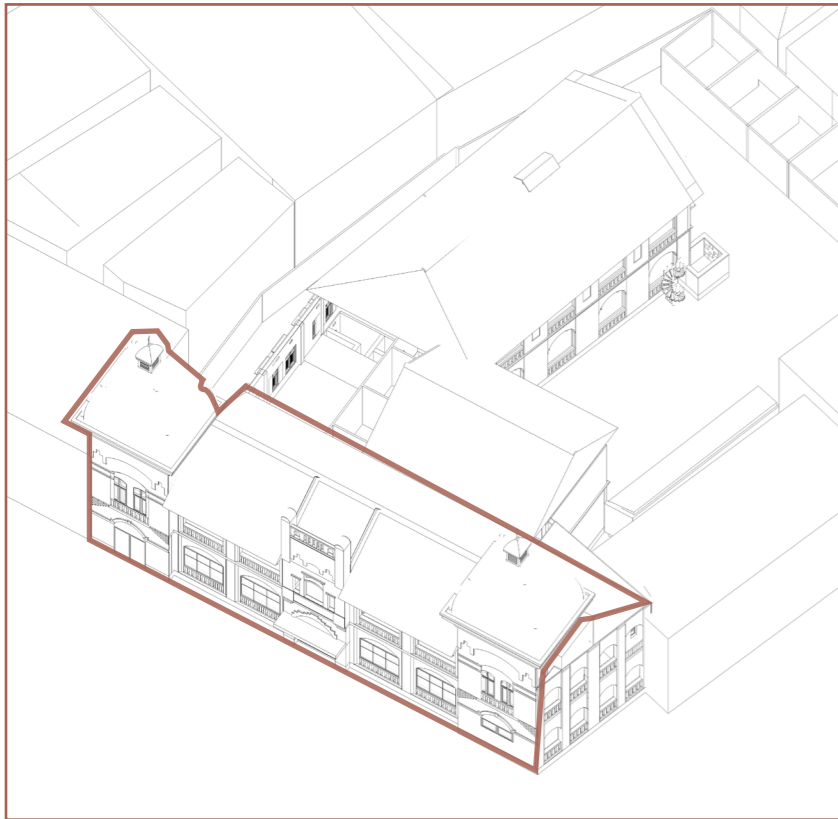
Building Transformation



Former NV Cultuur Maatschappij der Vorstenlanden



Cultural Value Assessment

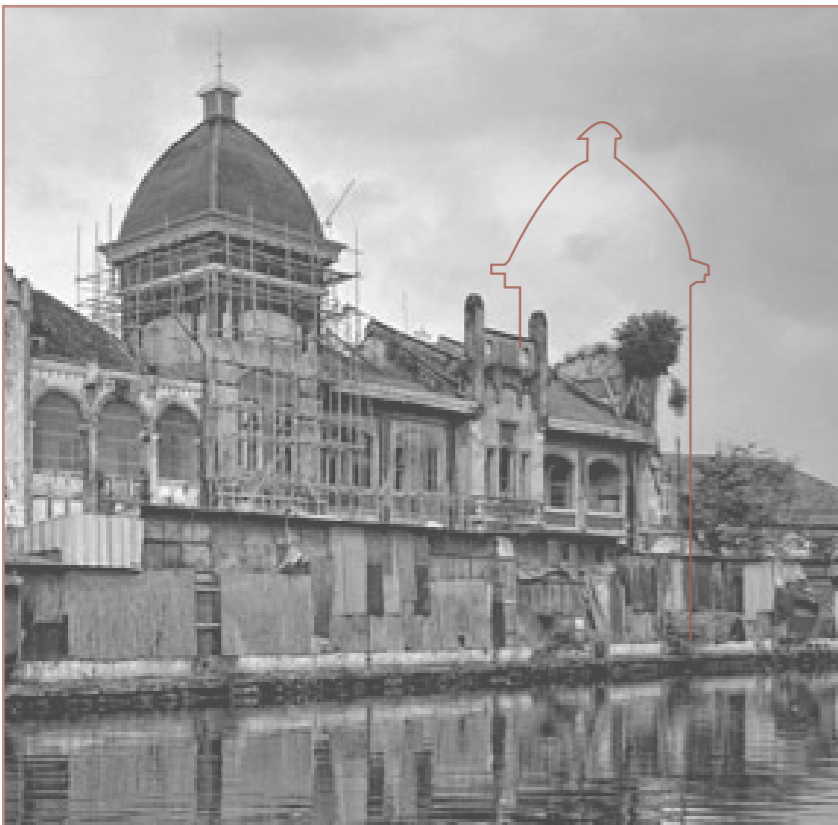
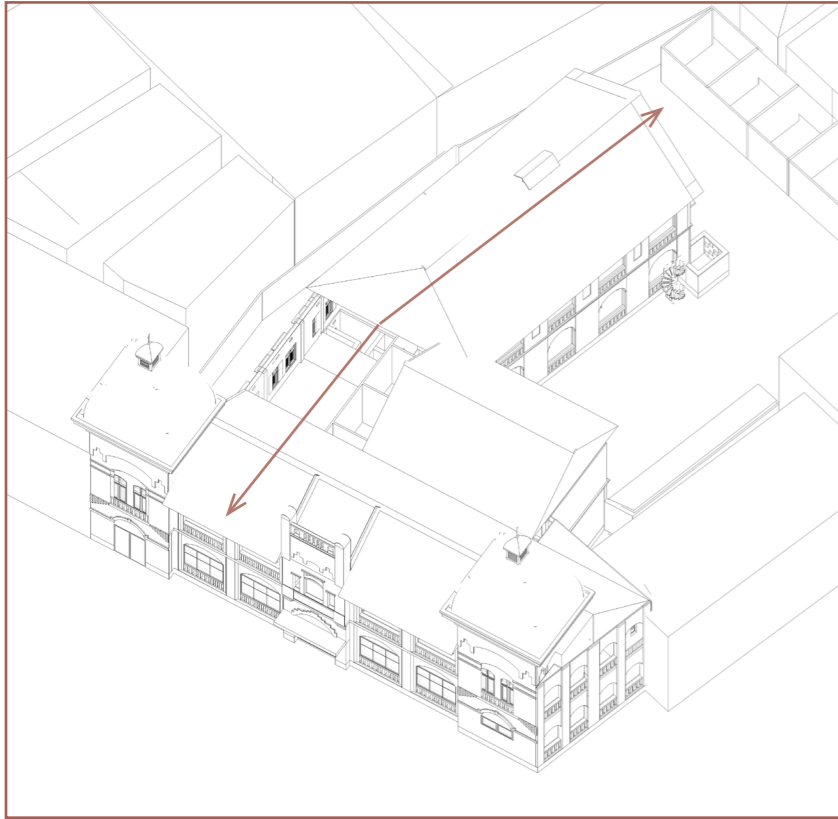


High Valued Facade Typology



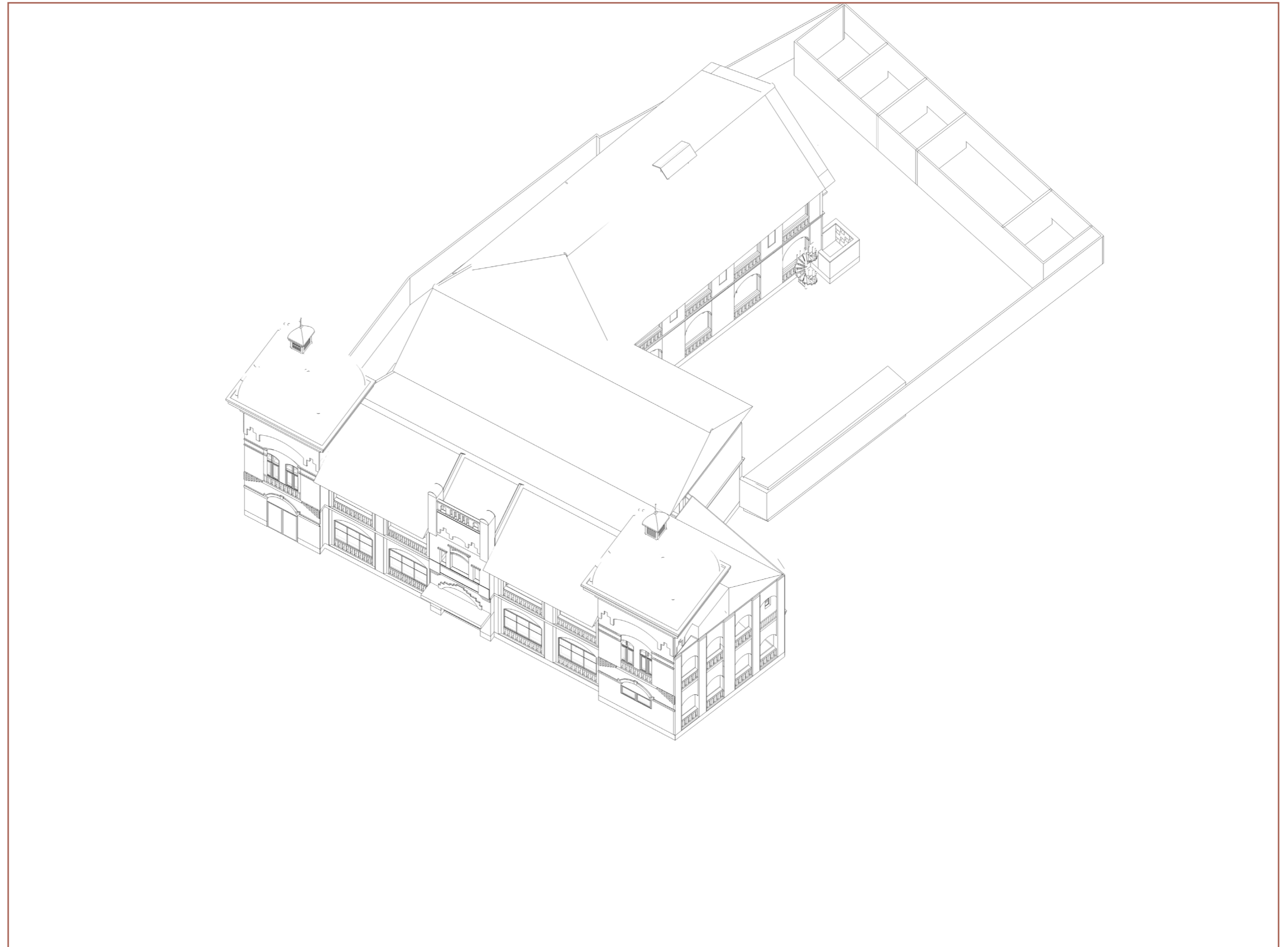
-  Dutch Dining Room and Toilet
-  Chinese Dining Room
-  Non-Dutch Dining Room

Spatial Arrangement: Traces of Inequality and Inside-Outside Typology

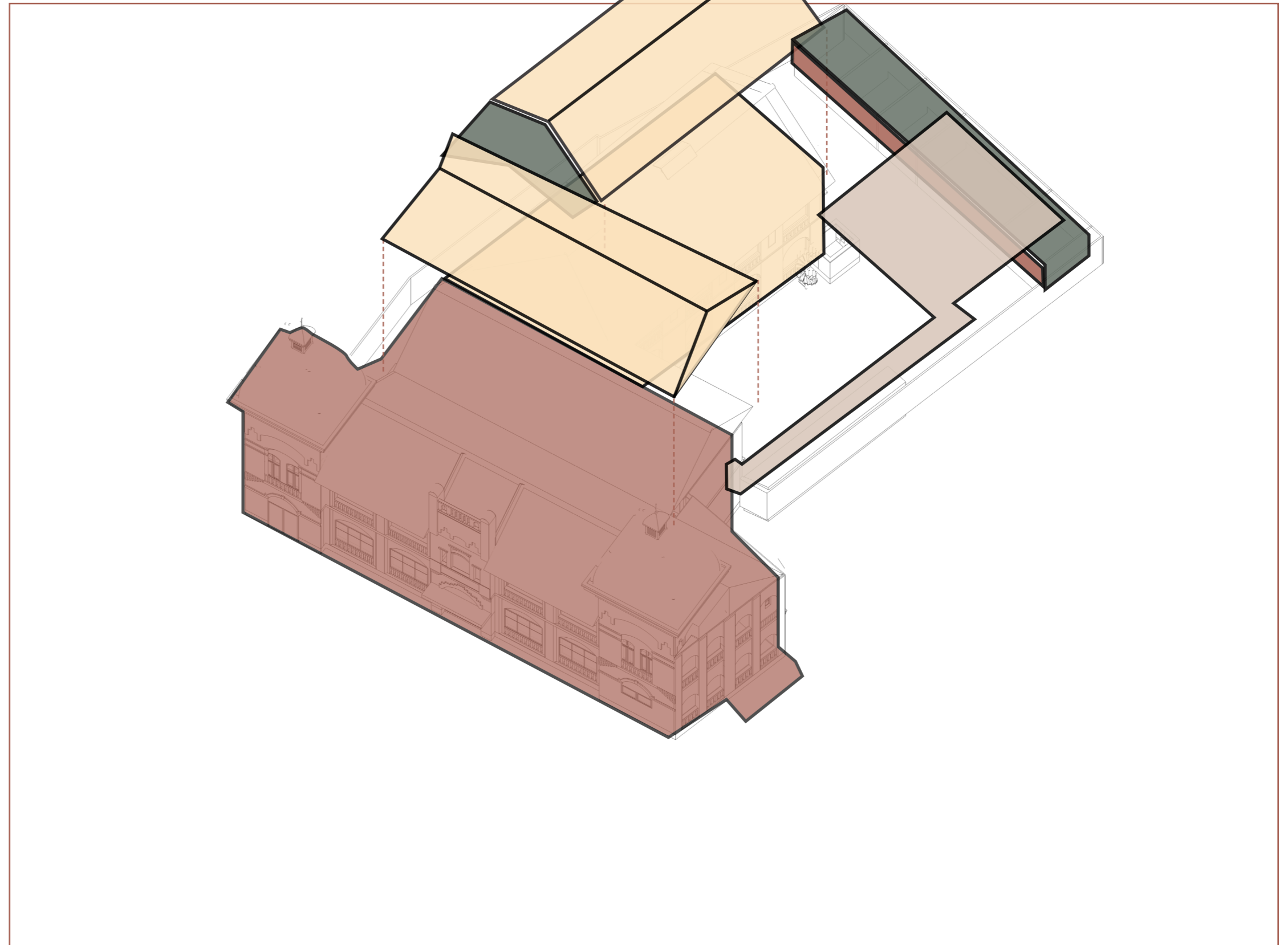


European Building Characters in Tropical Context

Transformation Strategy



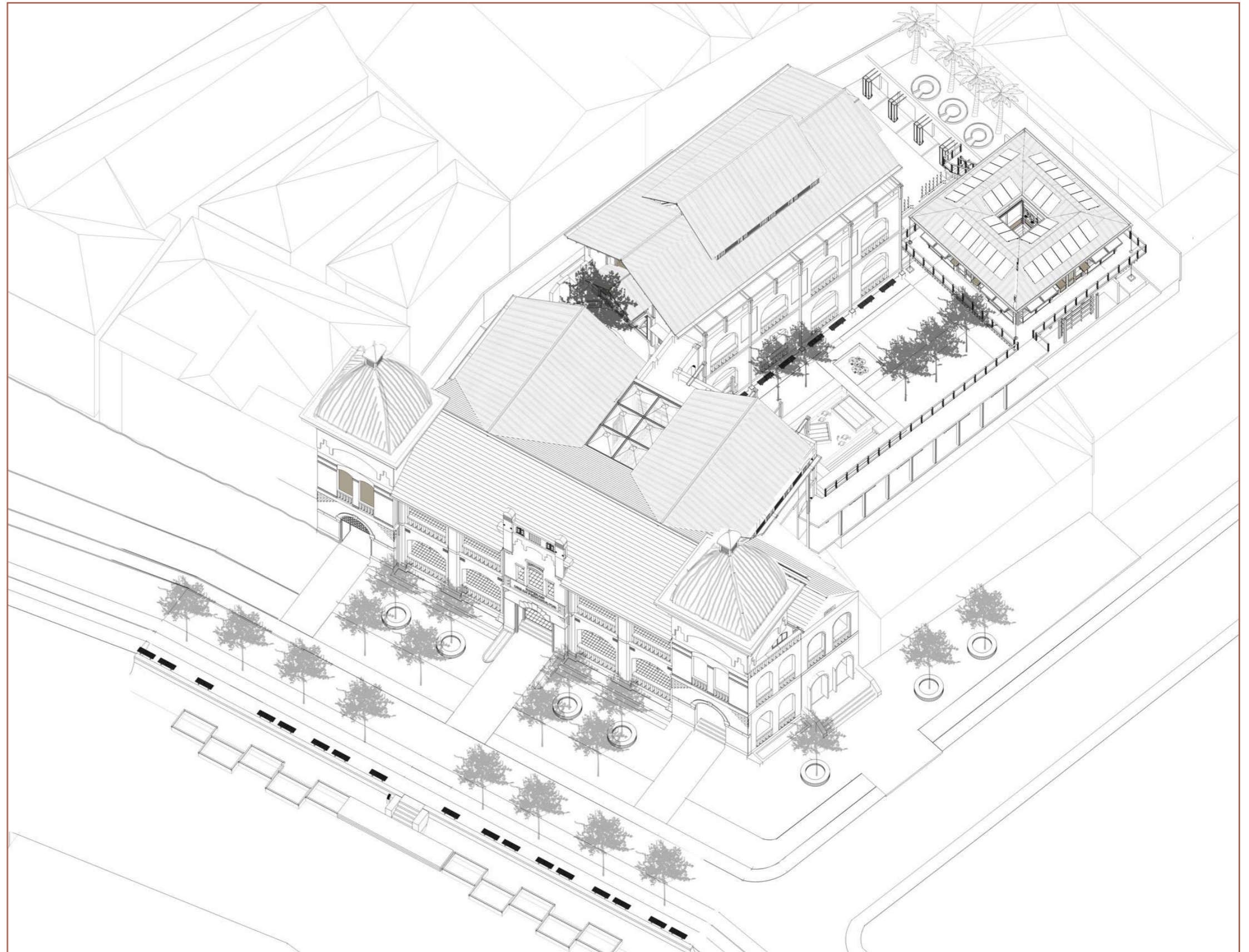
Existing PT Perkebunan Nusantara Building



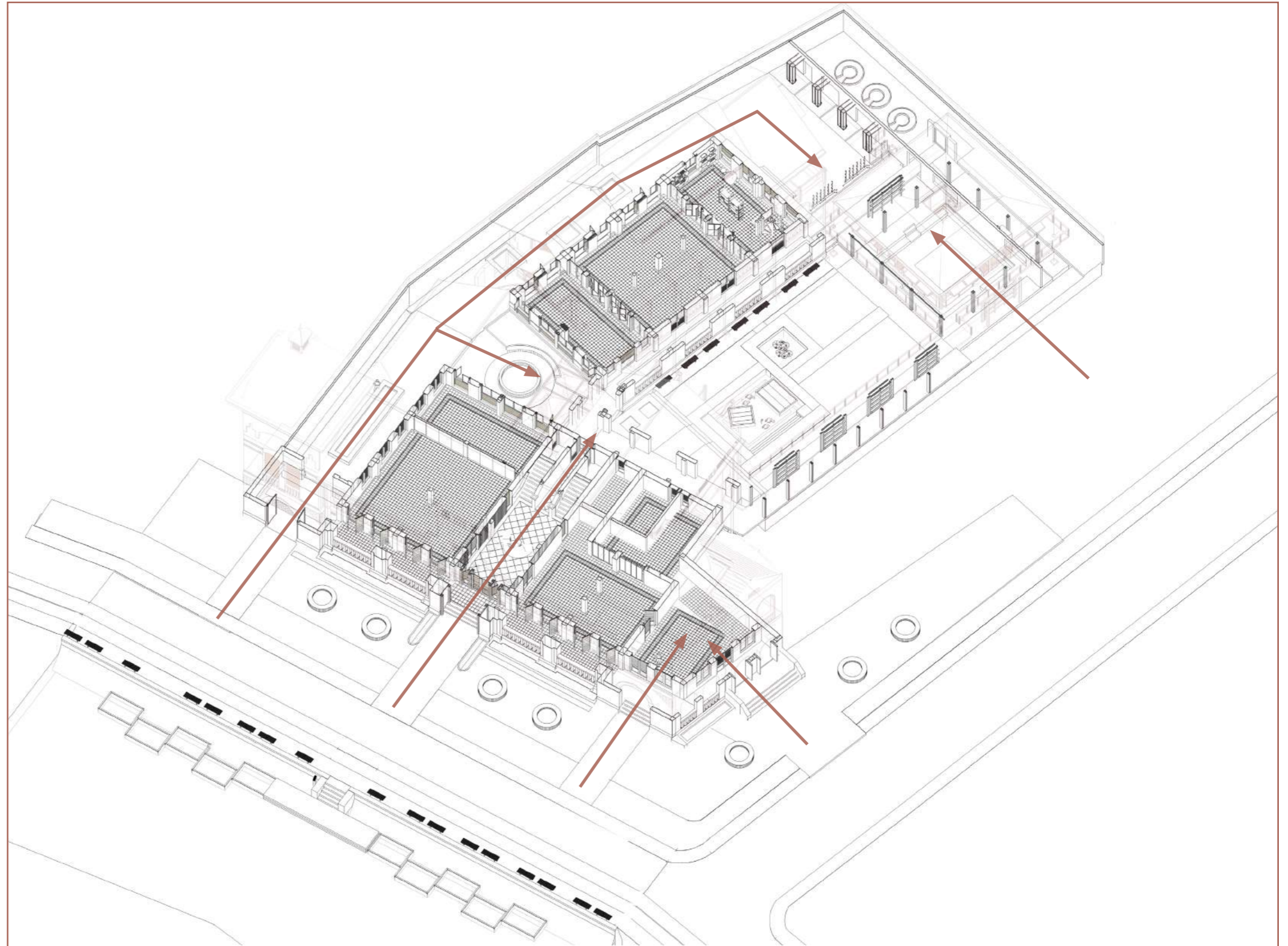
- Preserved
- Intervened
- Removed
- Added

Heritage Position

Socio-Cultural Theme
Natural Forces Theme



Transformation Proposal

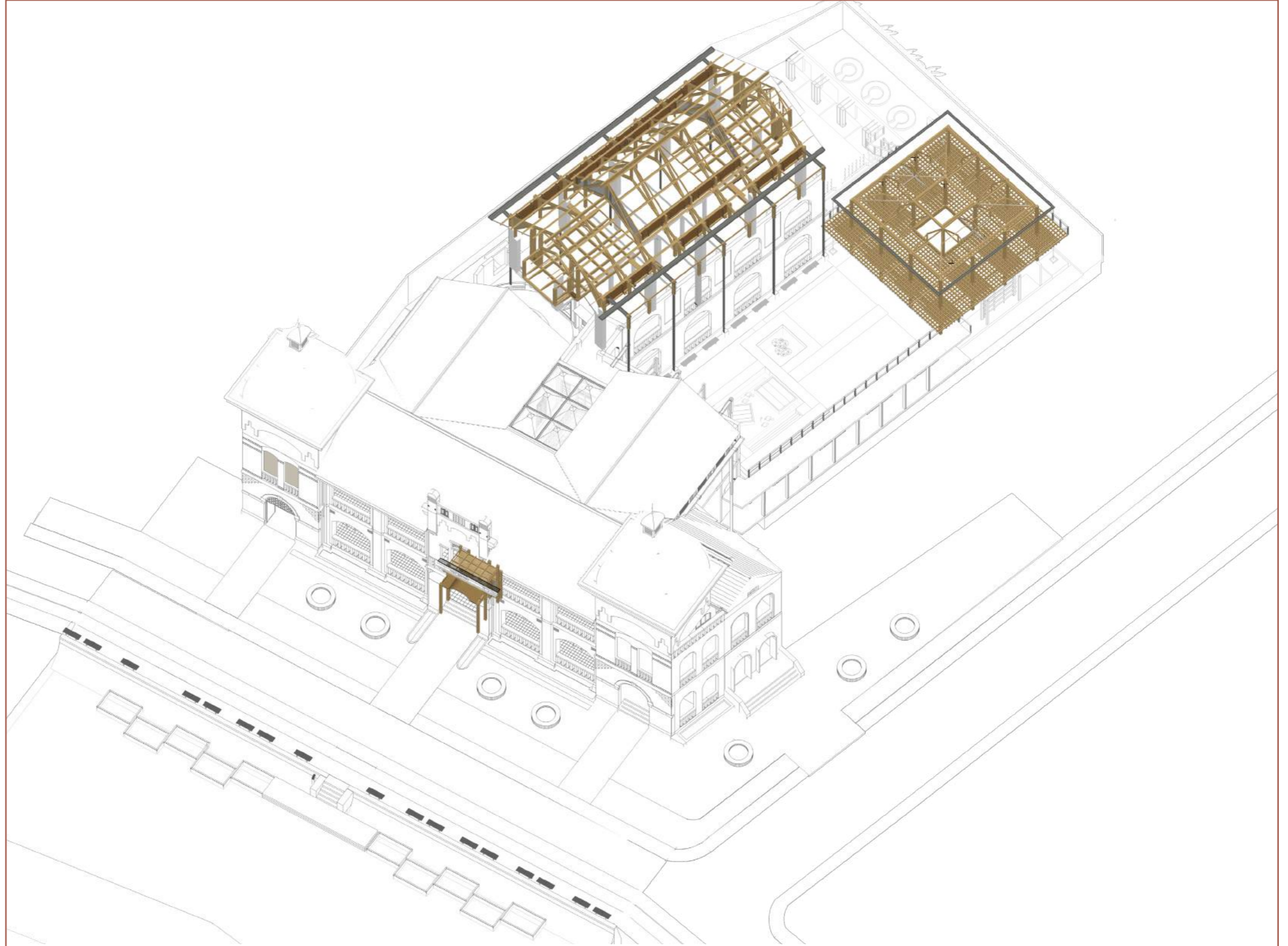


1. Establish Connections and Openness

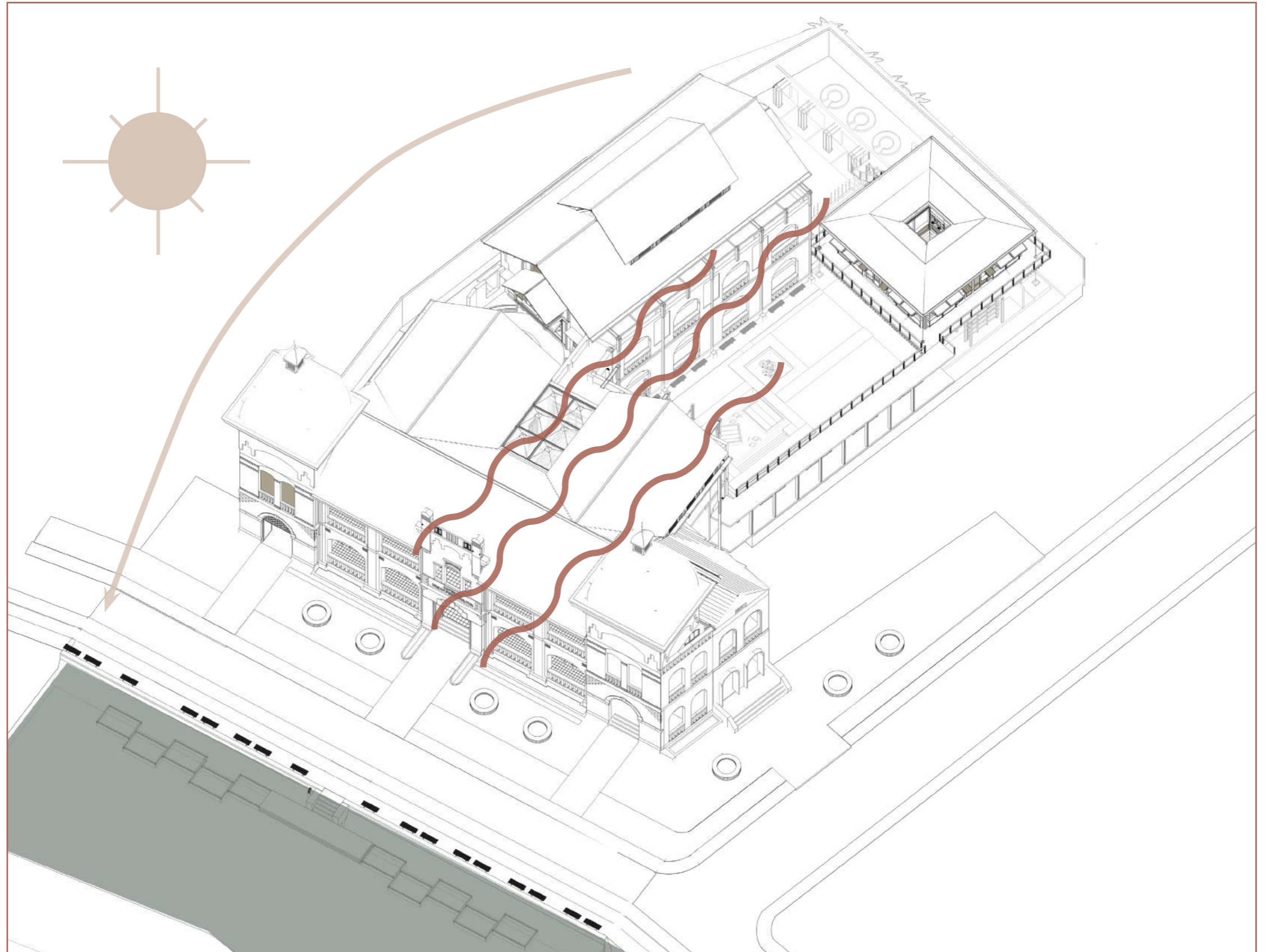


- Communal Space
- Specific/Contemplation Space

2. Implementing Local Community's Spatial Culture: Community, Reversing the Inequality



3. Embracing Local Craftmanship + Materialization

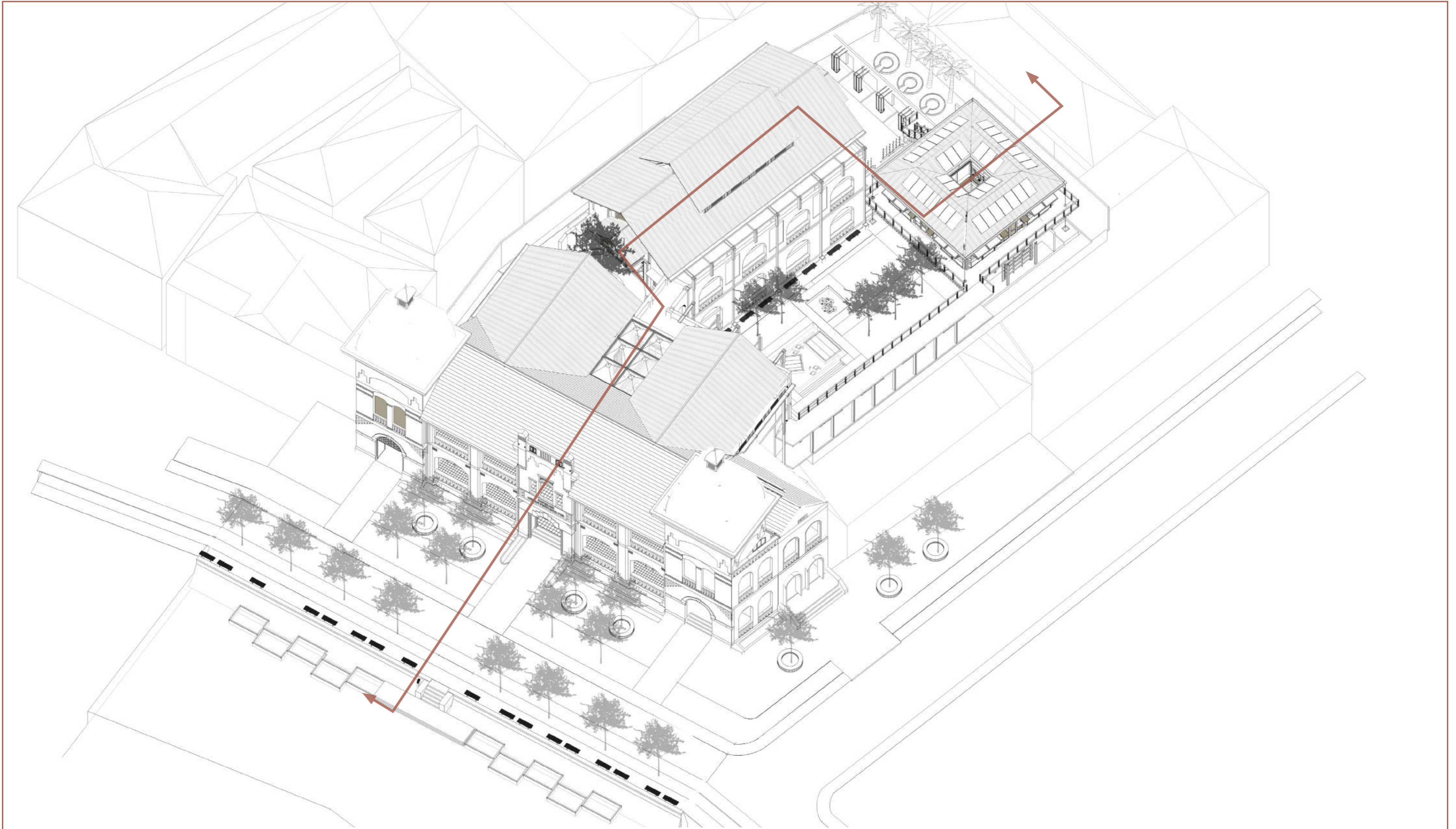


4. Utilizing and Embracing Kota Lama's Natural Forces

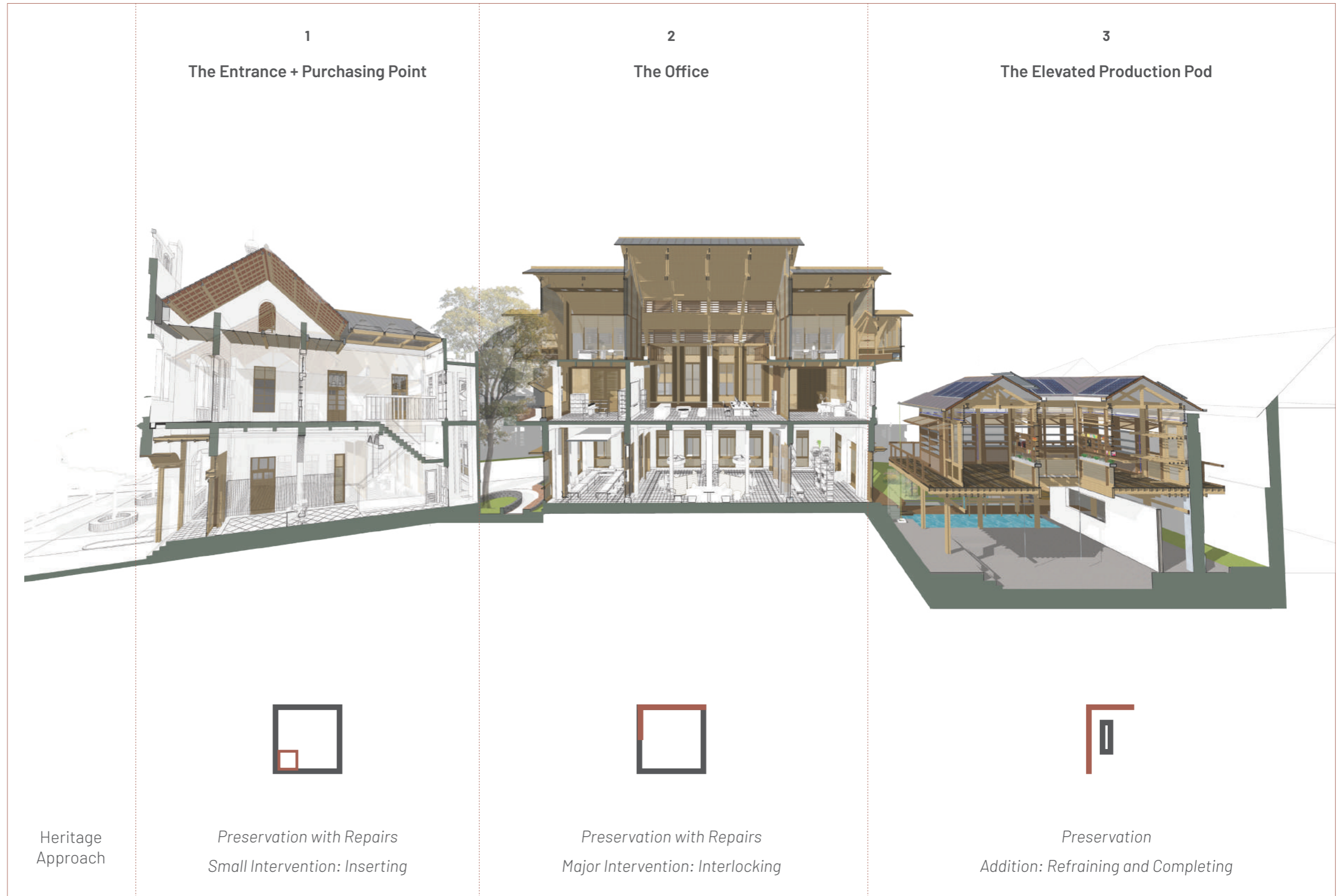
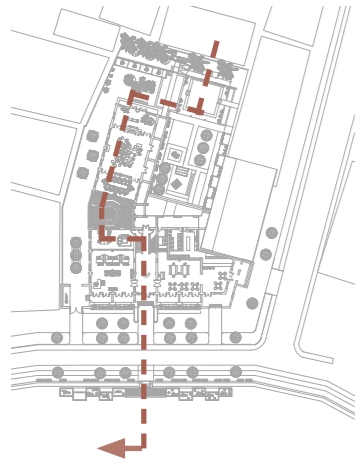
Transformation Proposal



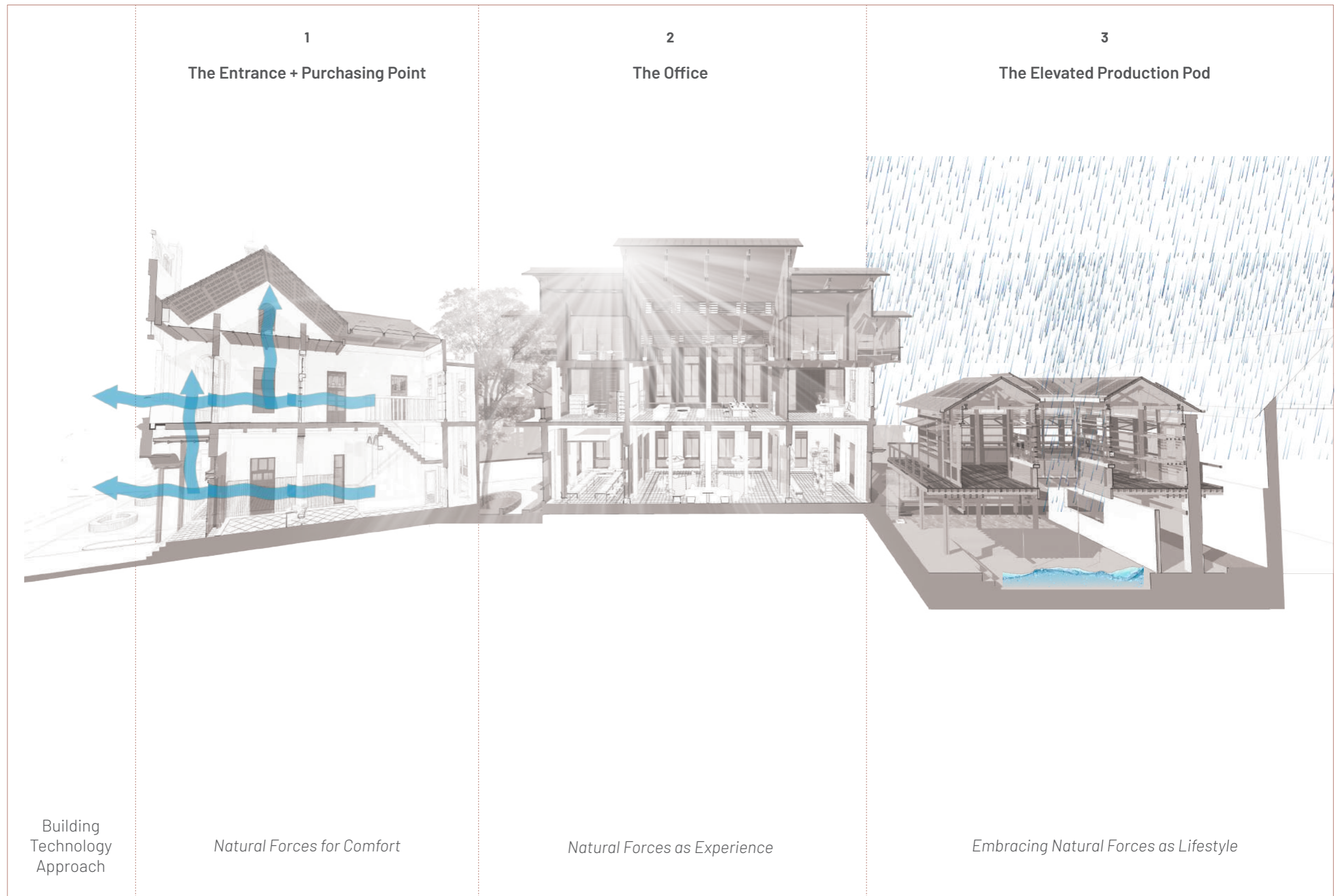
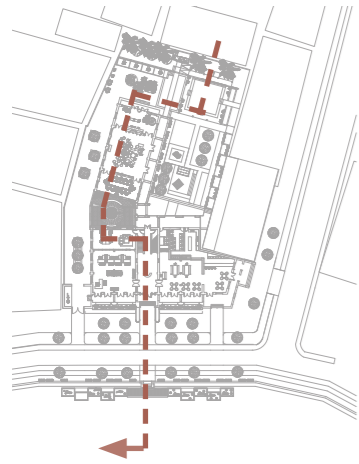
Urban Permaculture Co-Operative Office



Close Readings and Interventions



Three Parts Transformation Framework: Heritage Approach



Three Parts Transformation Framework: Building Technology Approach

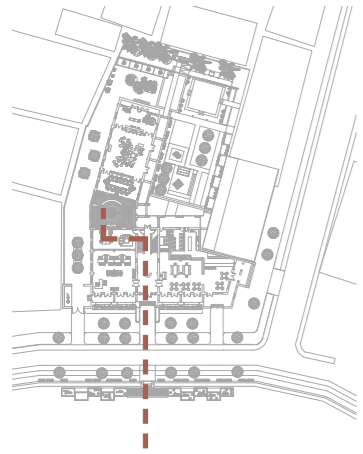


The Entrance

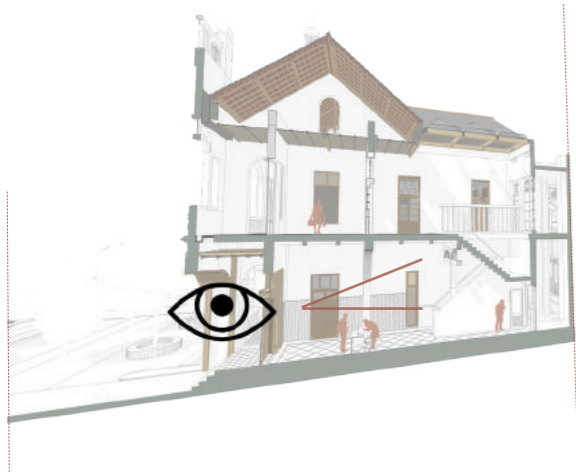
Transformation Proposal: The Entrance, Small Intervention

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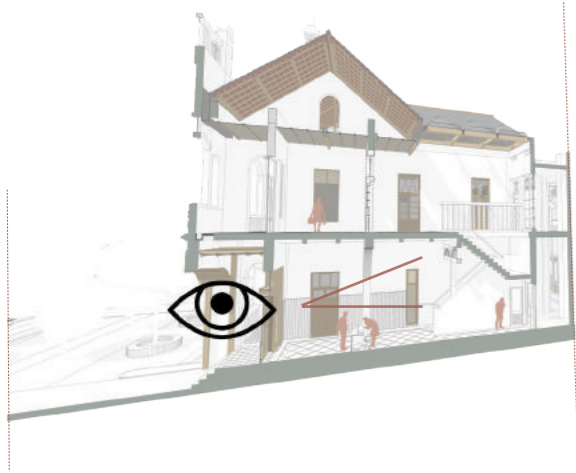
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Preservation with Repairs



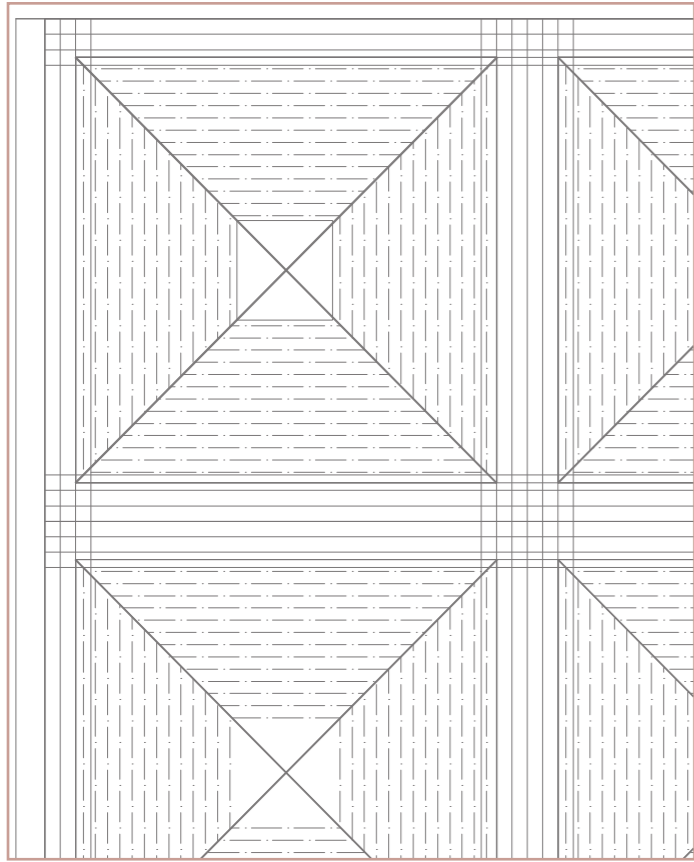
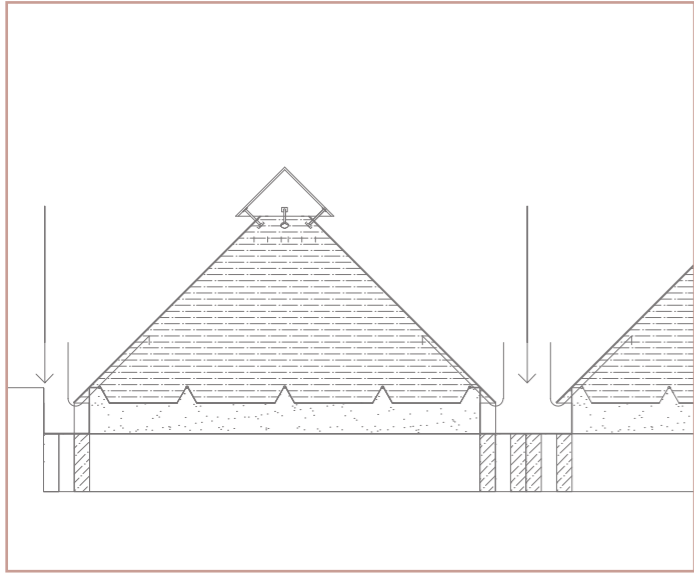
Existing Condition



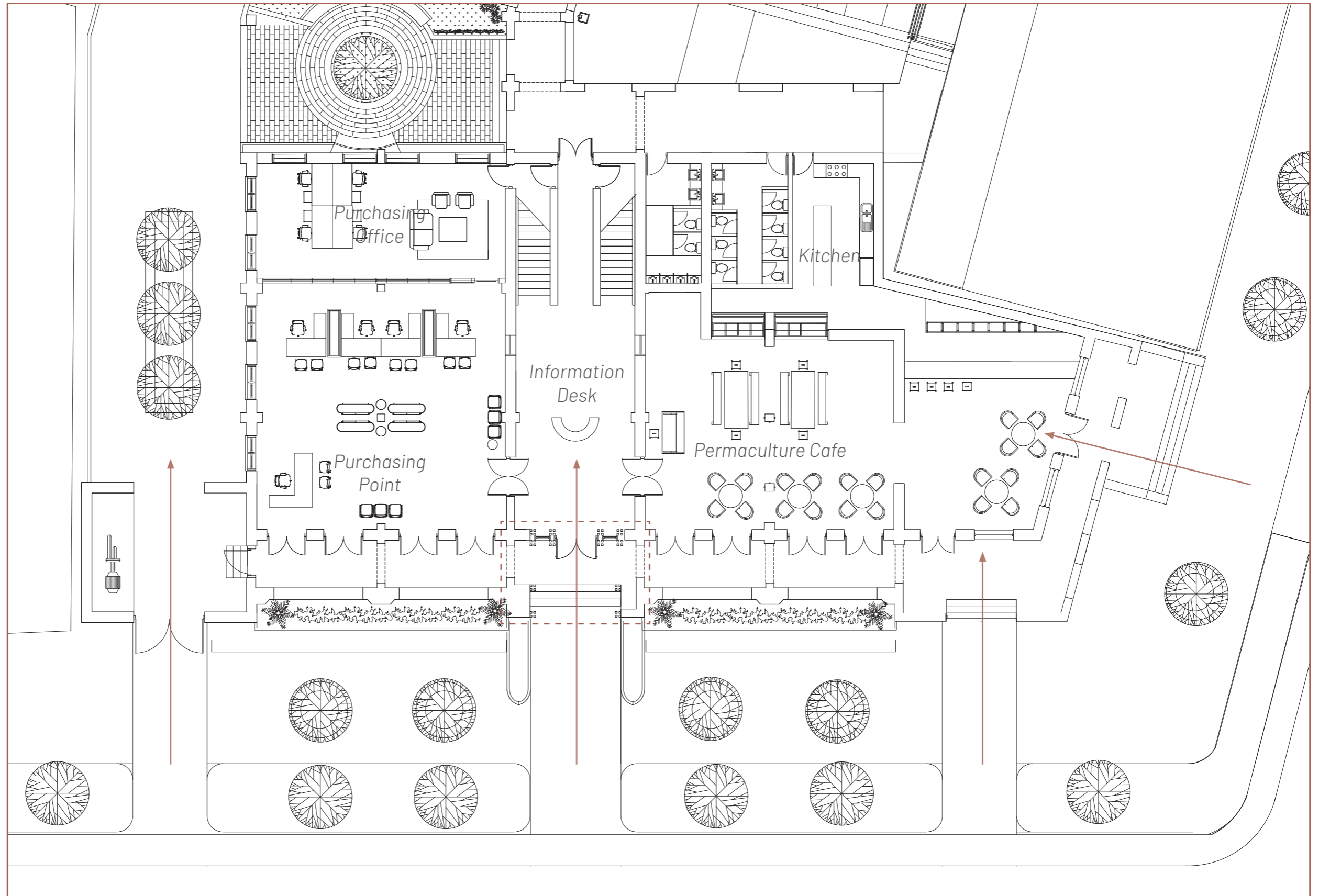
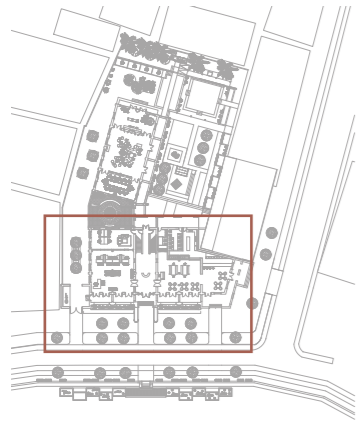
Reusing Doors



Existing Condition



Roof Intervention

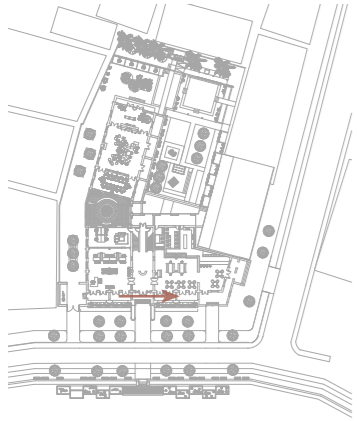


The Entrance's Intervention

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Existing Condition



Opening Up the Facade, Framing the Rhythm of the Corridor



Existing Condition

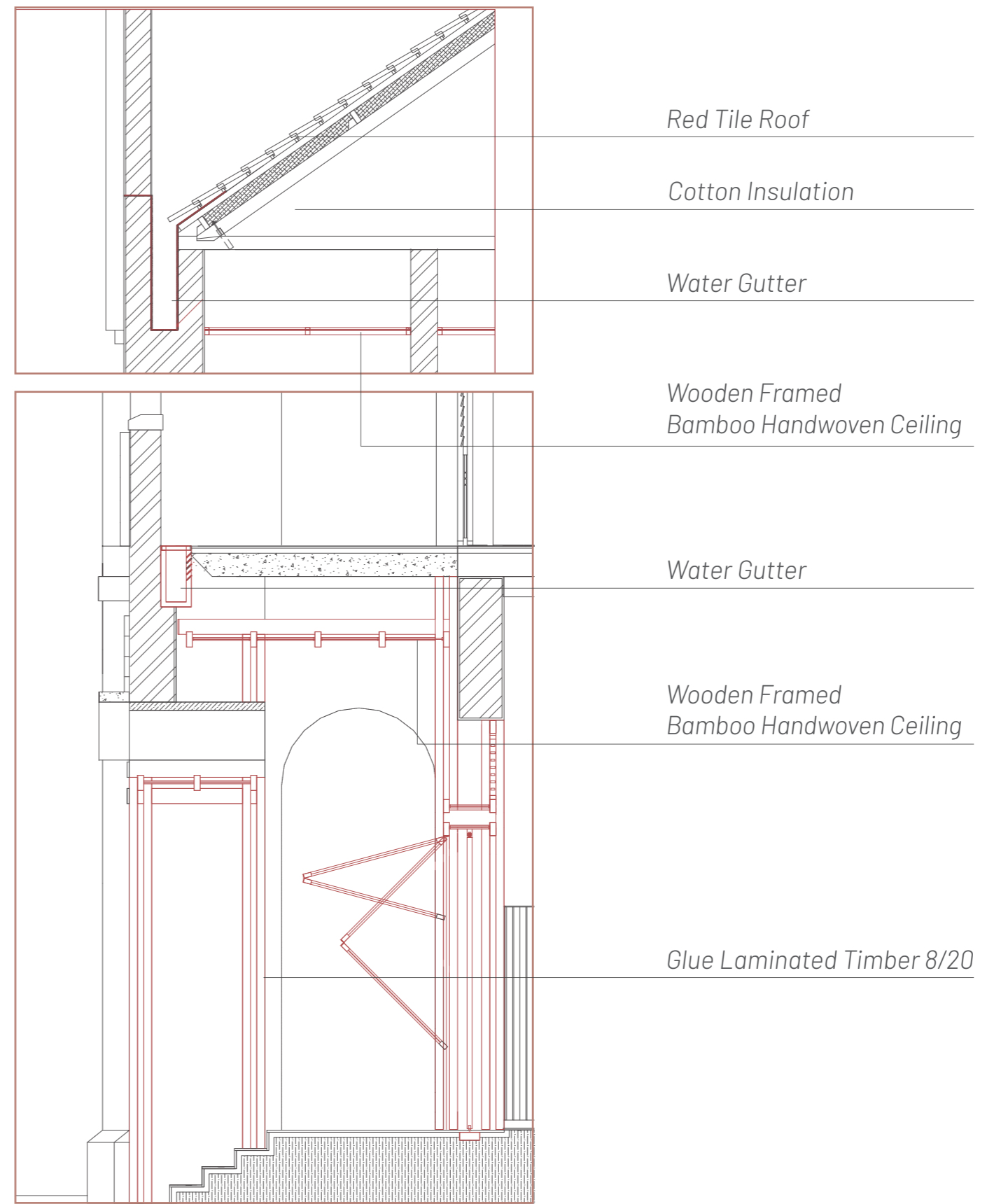
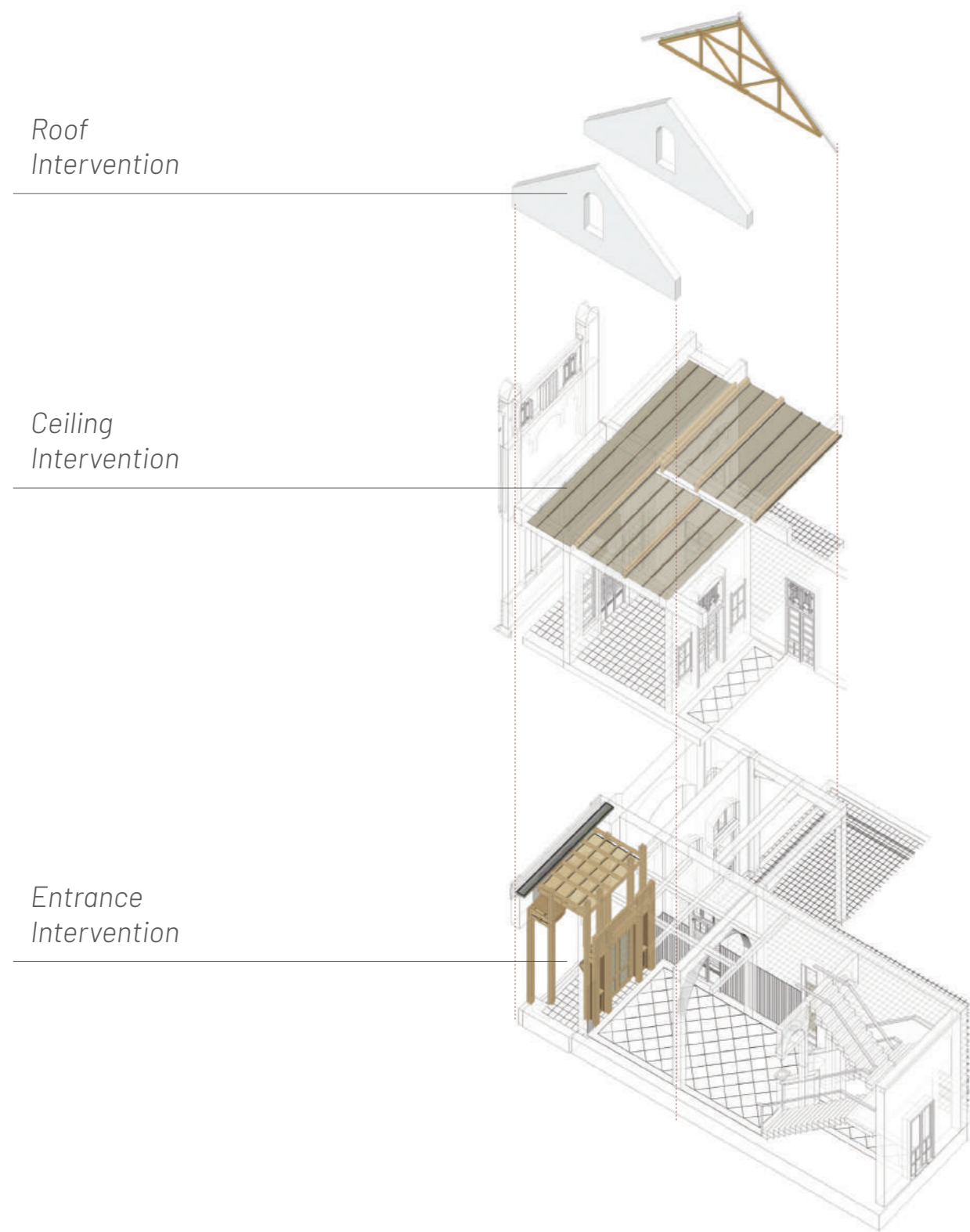


Accentuating the Entrance while Preserving the Facade Rhythm

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Inserting Interventions, Preserving the Original Fabrics



Existing Condition

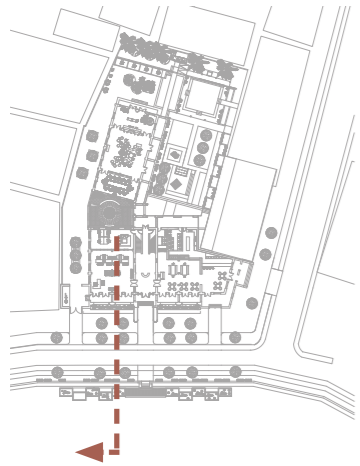


Establishing Connections to the Public Realm, Accentuating the Entrance

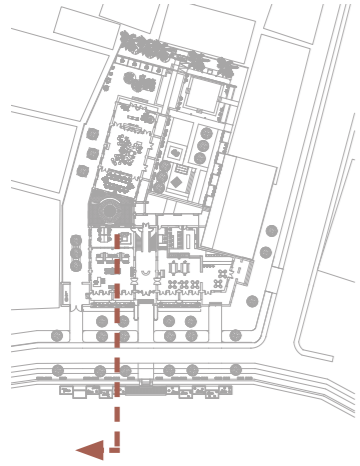
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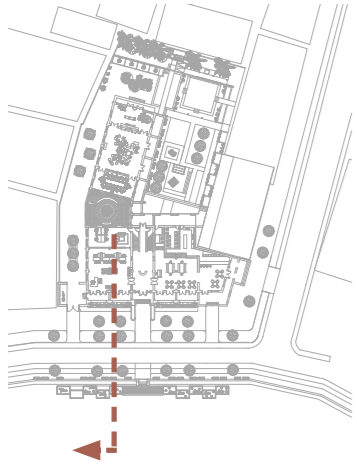
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Purchasing Point and Multi-Purposes Room



Existing Condition



Inserting Intervention

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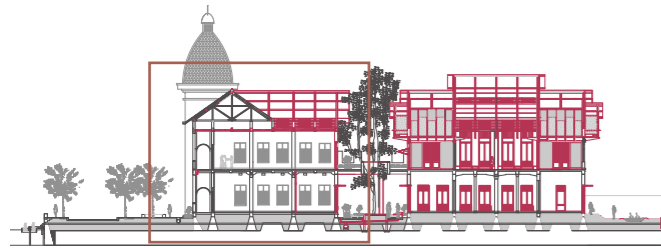


Longitudinal Section

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Glued Laminated Timber Structure,
Metal Sheet Roof

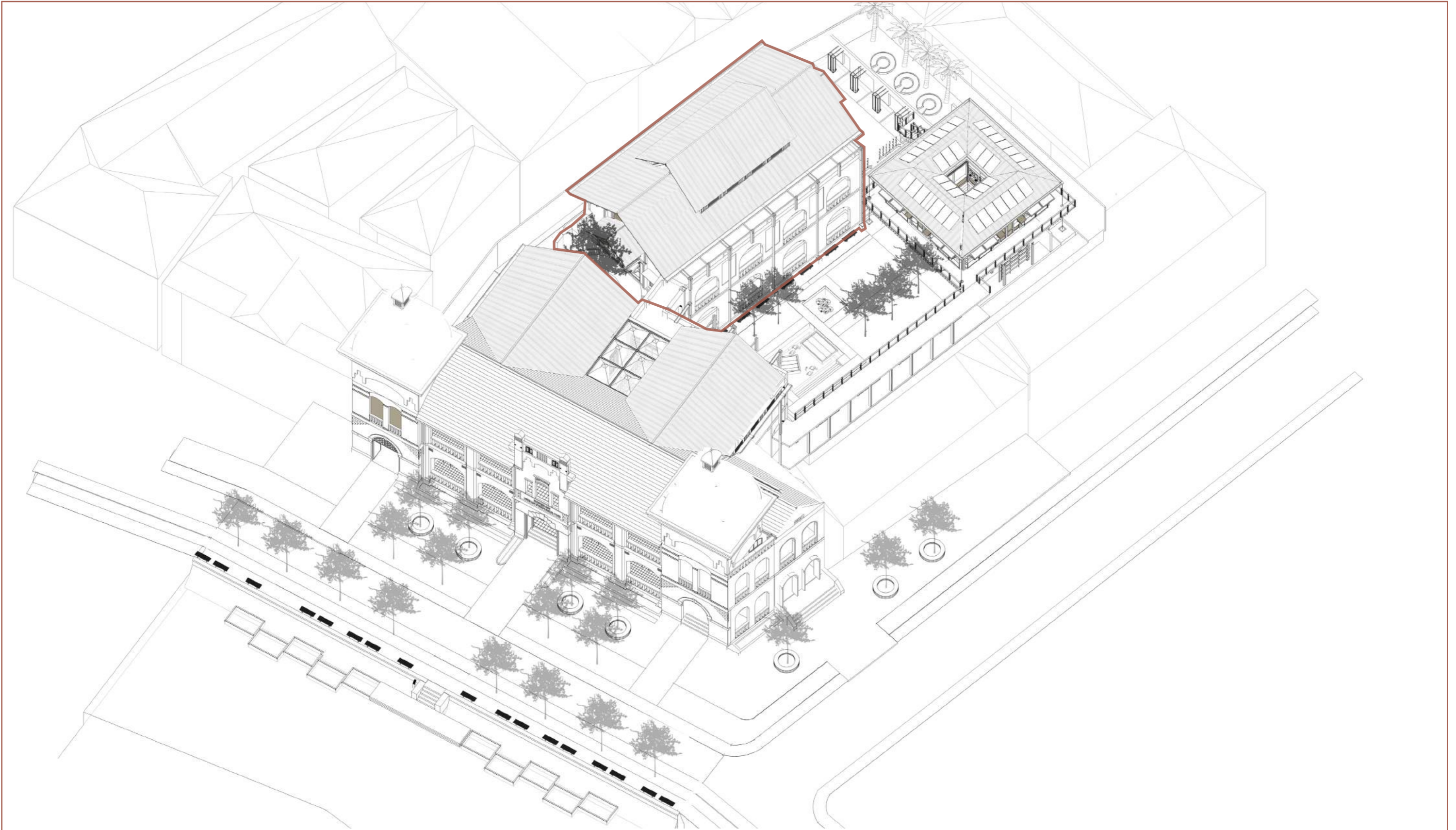
Cotton Insulation

Wooden Framed
Bamboo Handwoven Ceiling

Water Gutter



Longitudinal Section

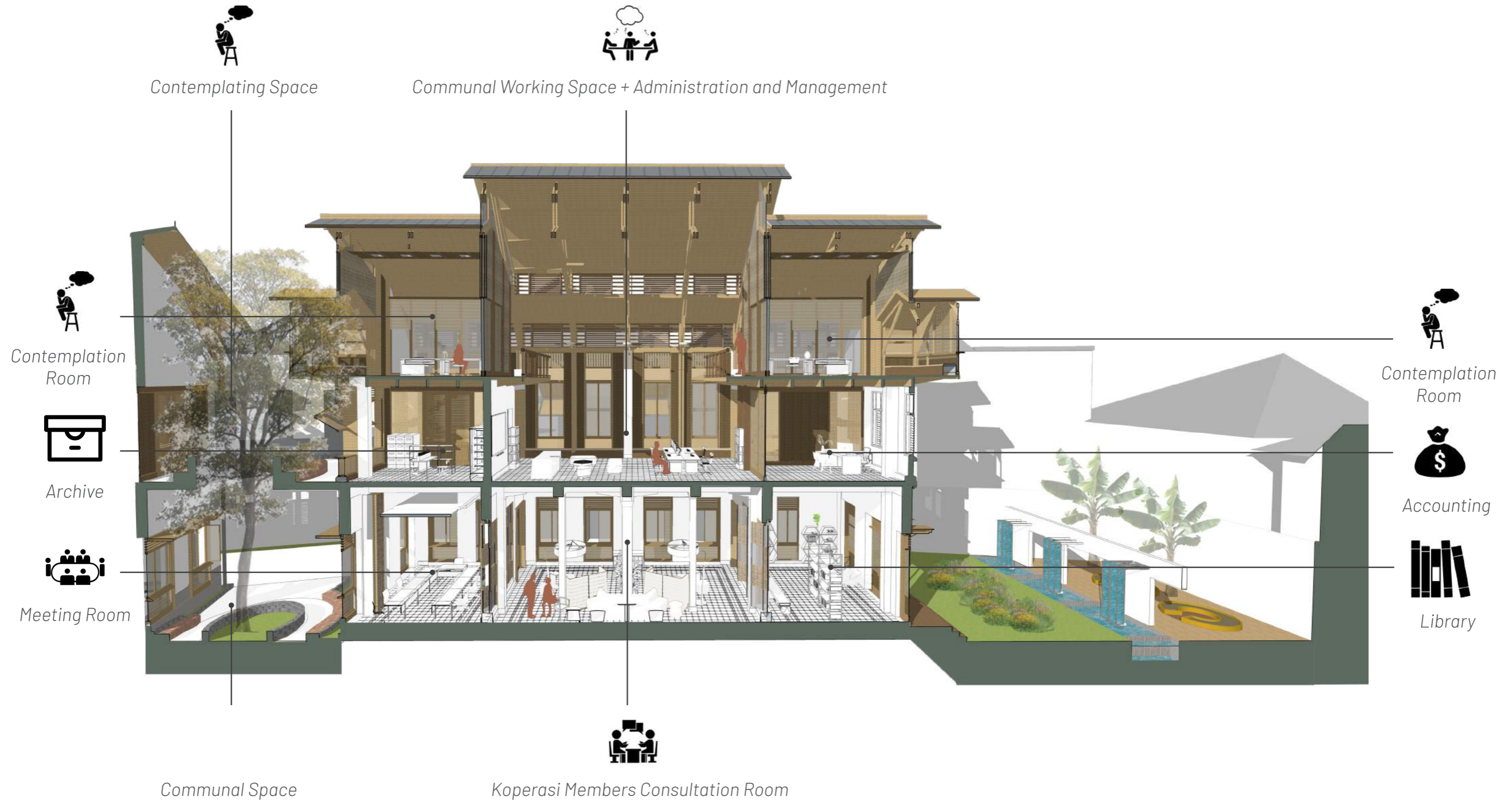


The Office

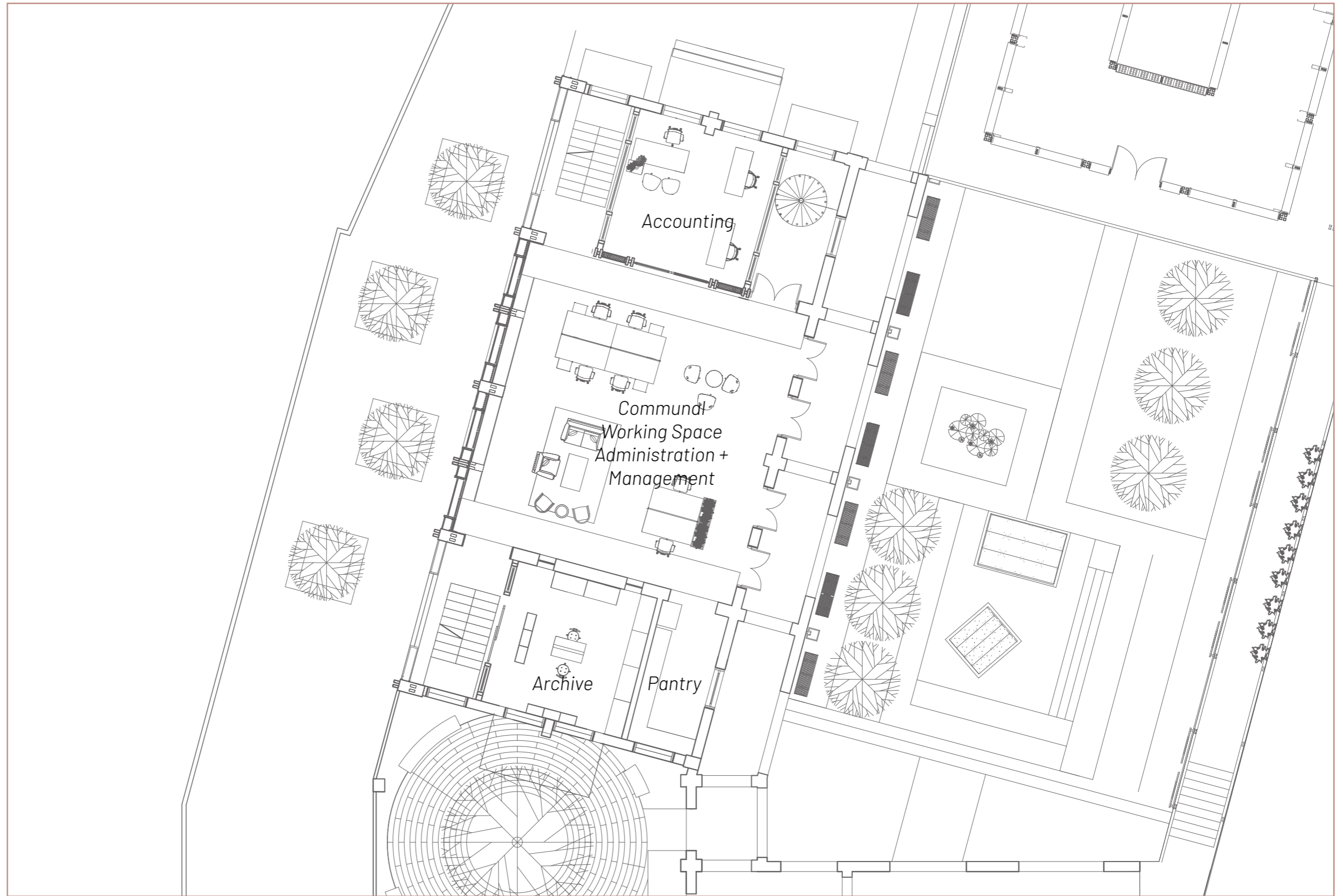
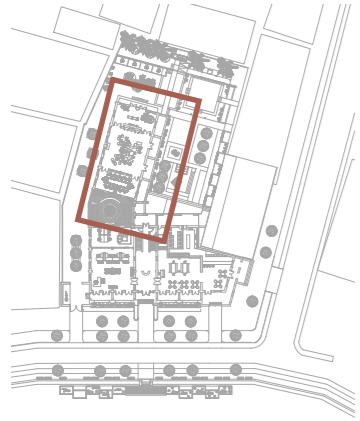
Transformation Proposal: The Office, Interlocking Old and New

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Program



The Office: First Floor Plan

Transformation Proposal: The Office, Interlocking Old and New

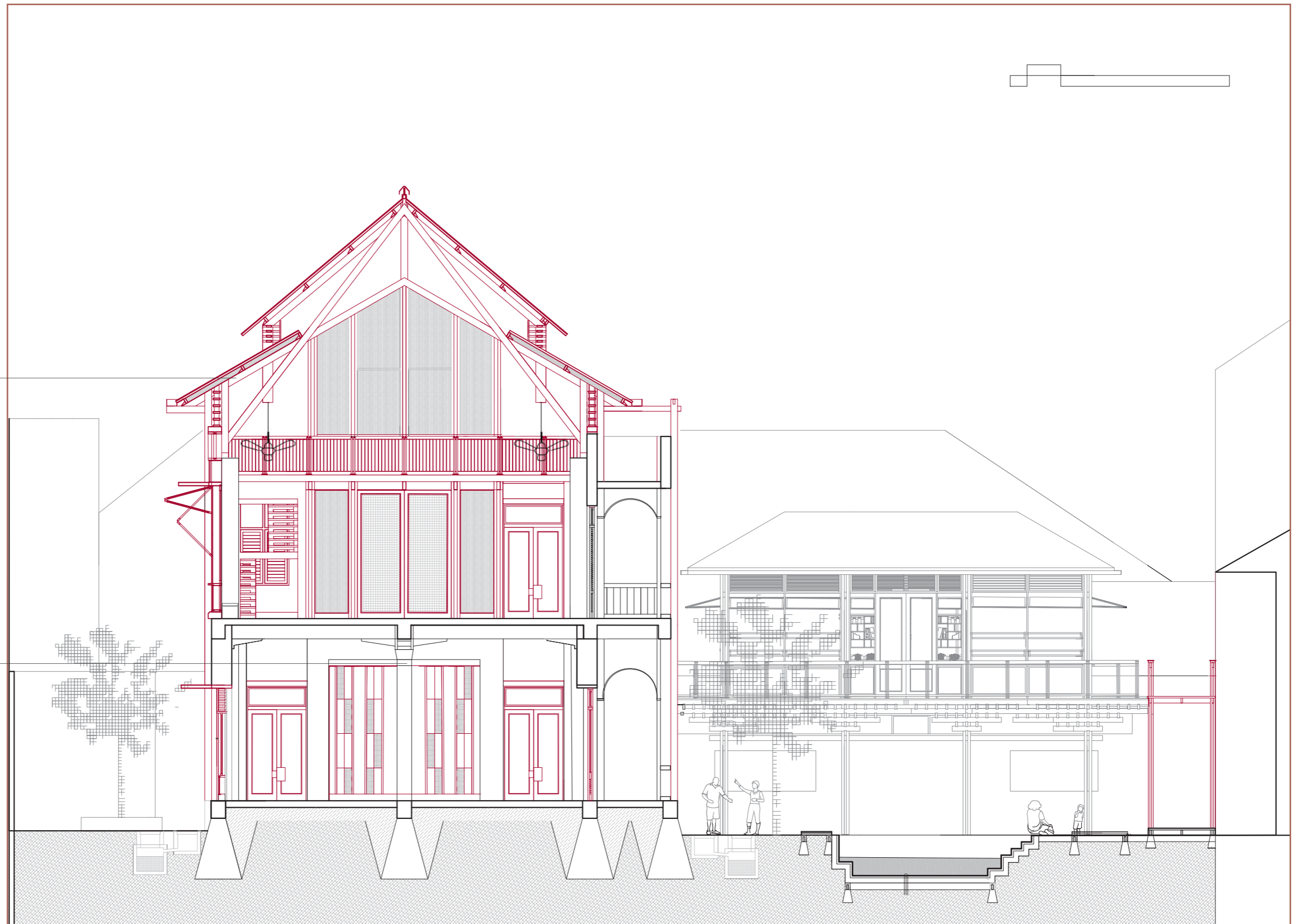
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Intervened

Preserved



Interlocking New to the Old to Protect the Existing Fabrics



Preservation with Repairs on the Ground Floor



Upper Floor Existing Condition



Playful Interventions on an Austeric Existing Fabric



Natural Forces as Experience, Light Play



Natural Forces as Experience, Light Play

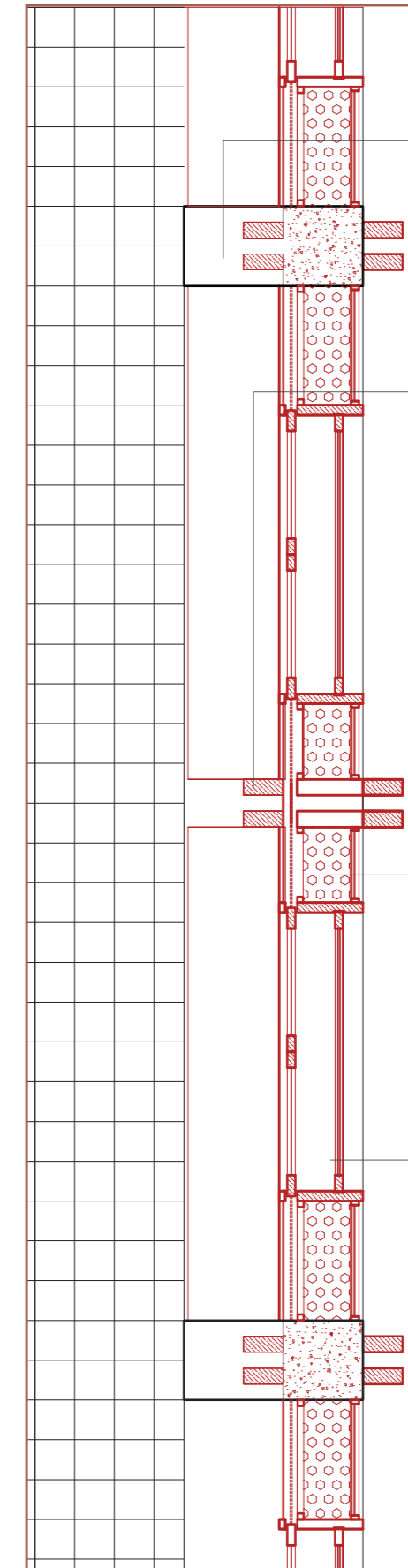
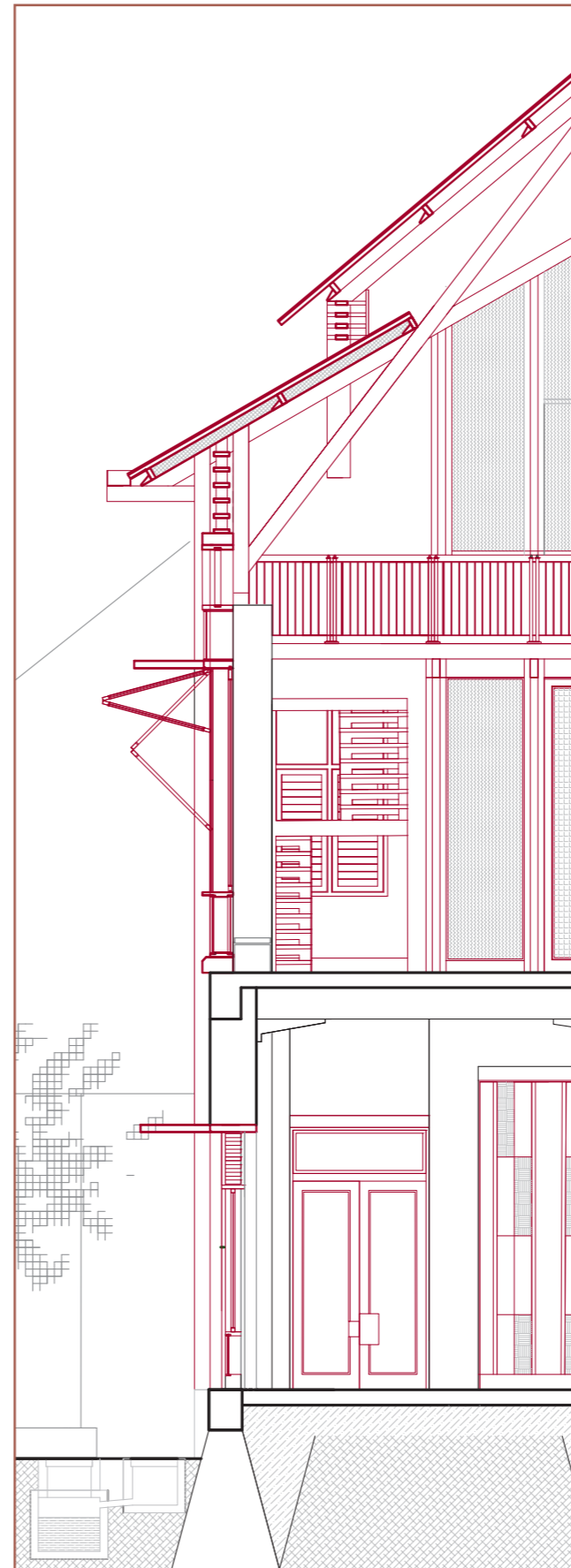
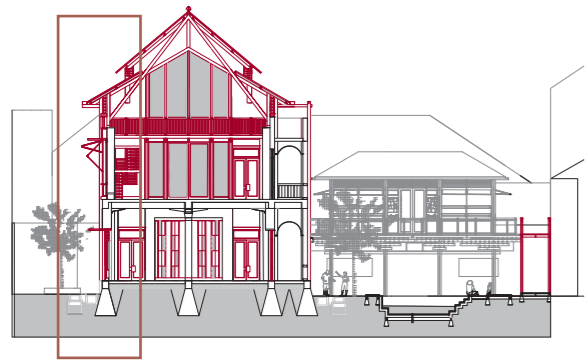


Natural Forces as Experience, Light Play

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Existing
Concrete Column

Glue Laminated
Timber 8/20

Wooden Framed
Bamboo Pattern
Facade. Water
Based Polyurethane
Finishing

Wooden Frame Glass
with Banana Leaves
Handwoven Layer

Facade Intervention

Transformation Proposal: The Office, Interlocking Old and New

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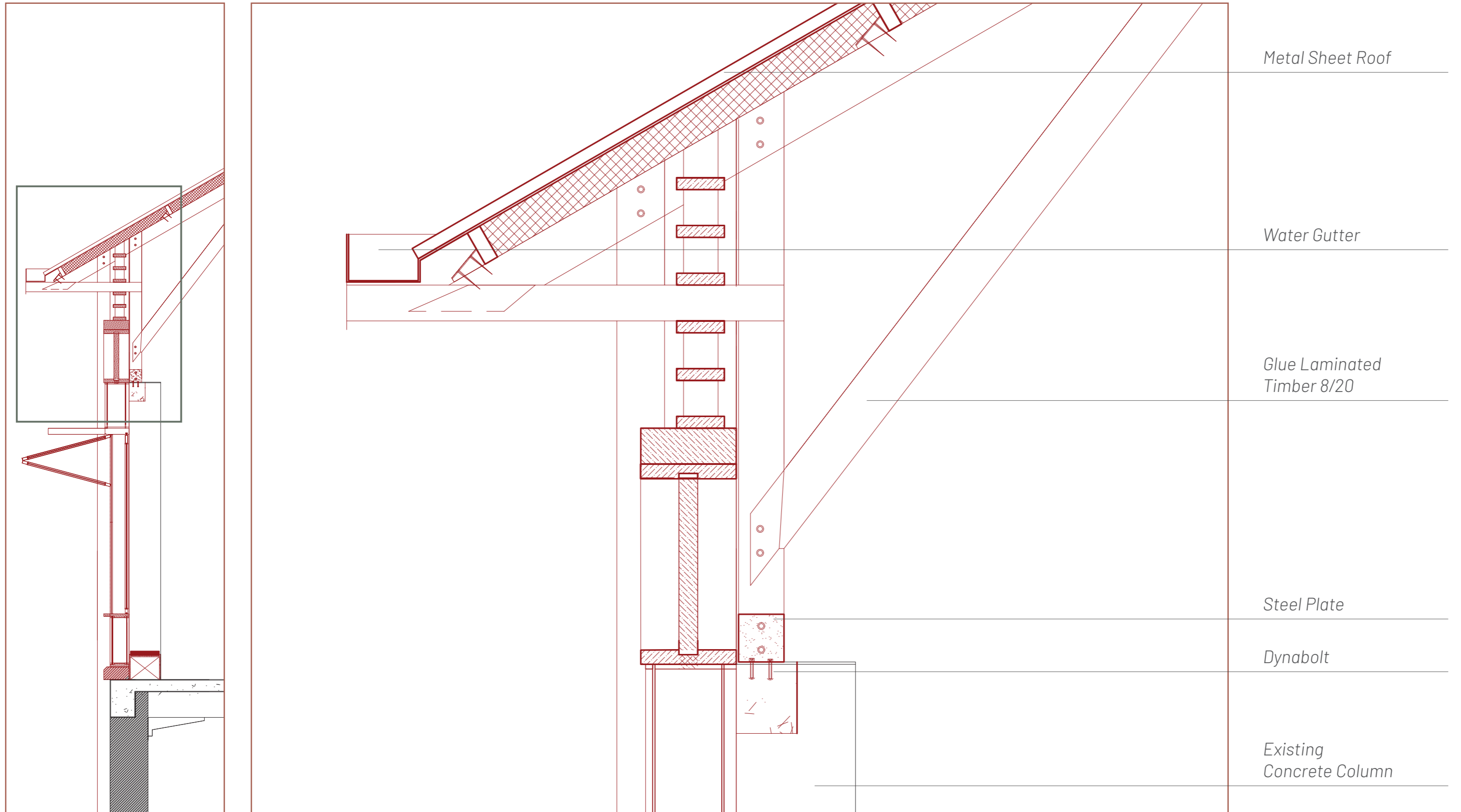
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1:10 Scale Fragment Model



Preserving the Facade Rhythm

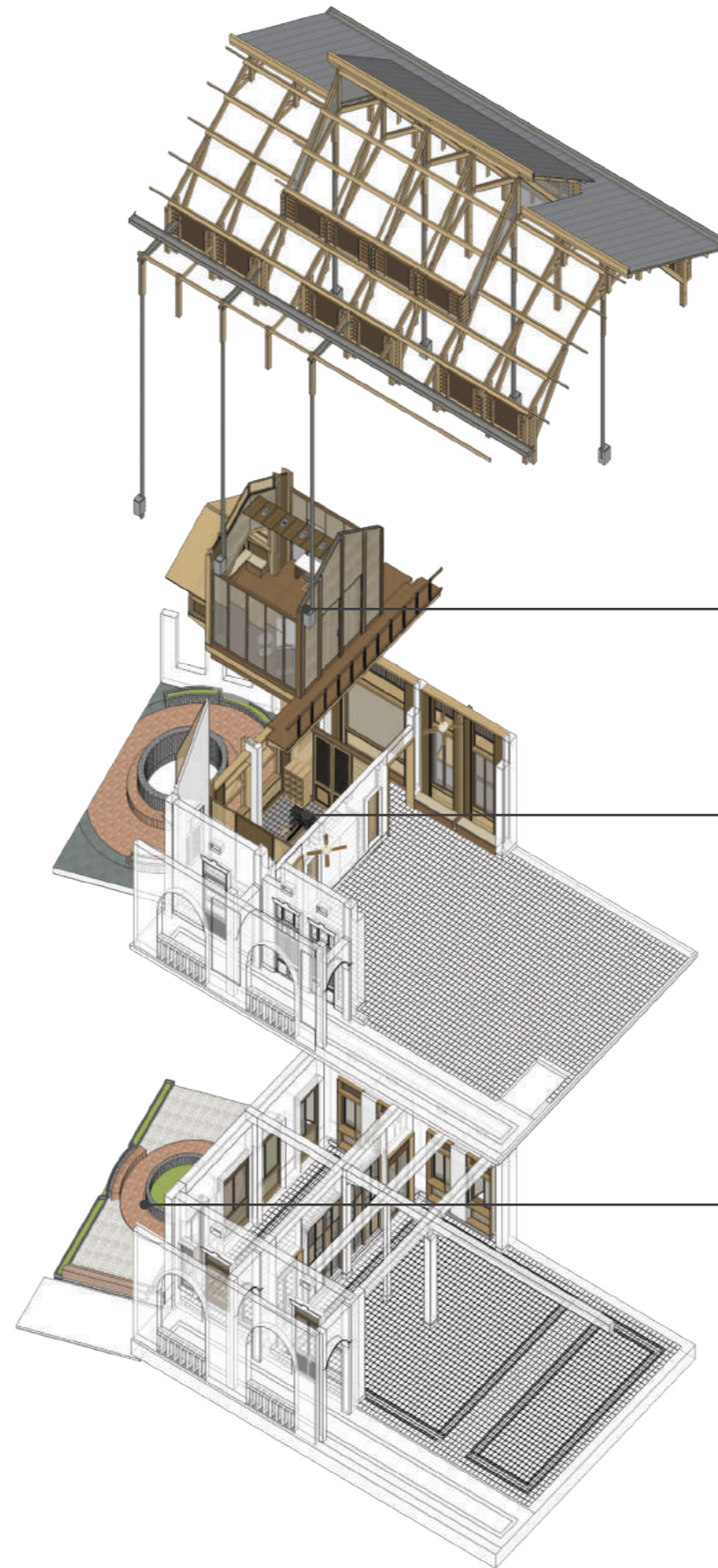


Co-Existing Structures

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Contemplation Space

Archive Room

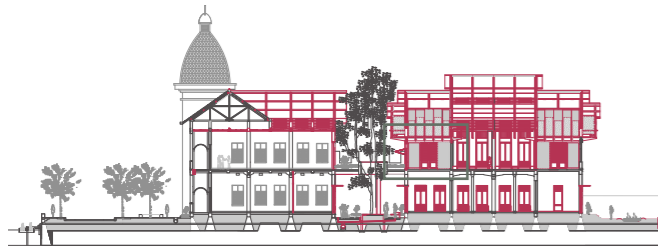
Semi Outdoor Communal Space

Mezzanine Addition and Former Dutch Toilet's Roof Removal

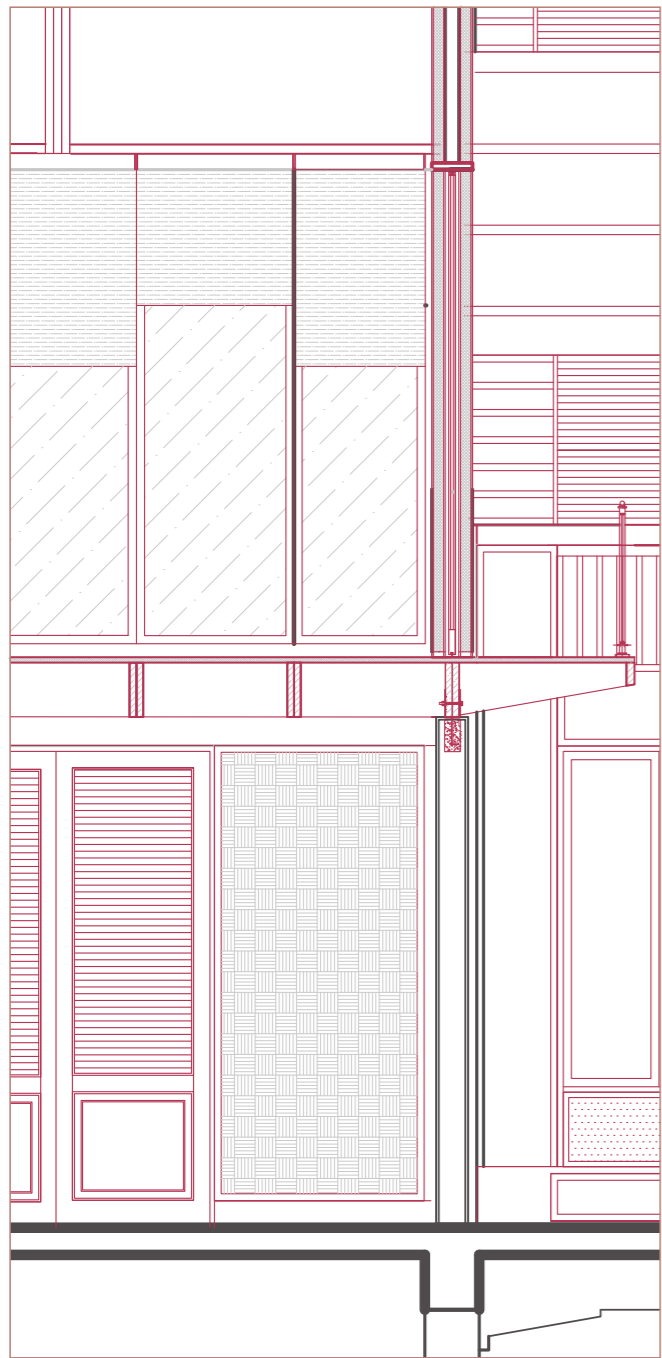
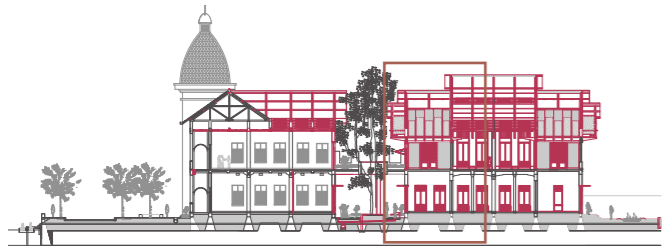
Transformation Proposal: The Office, Interlocking Old and New

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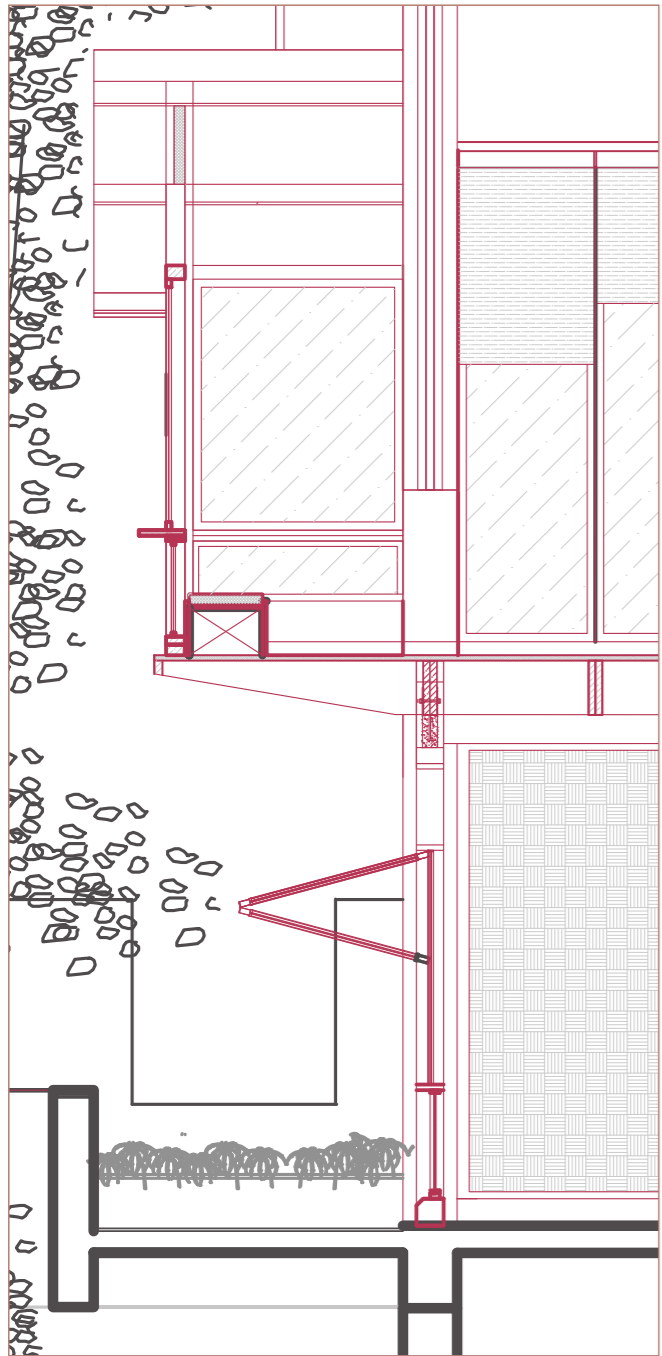
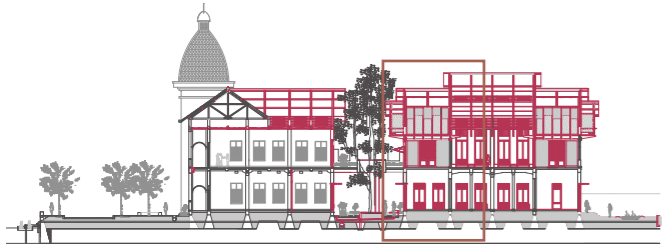
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Intertwining Locality



Intimate Space for Contemplation

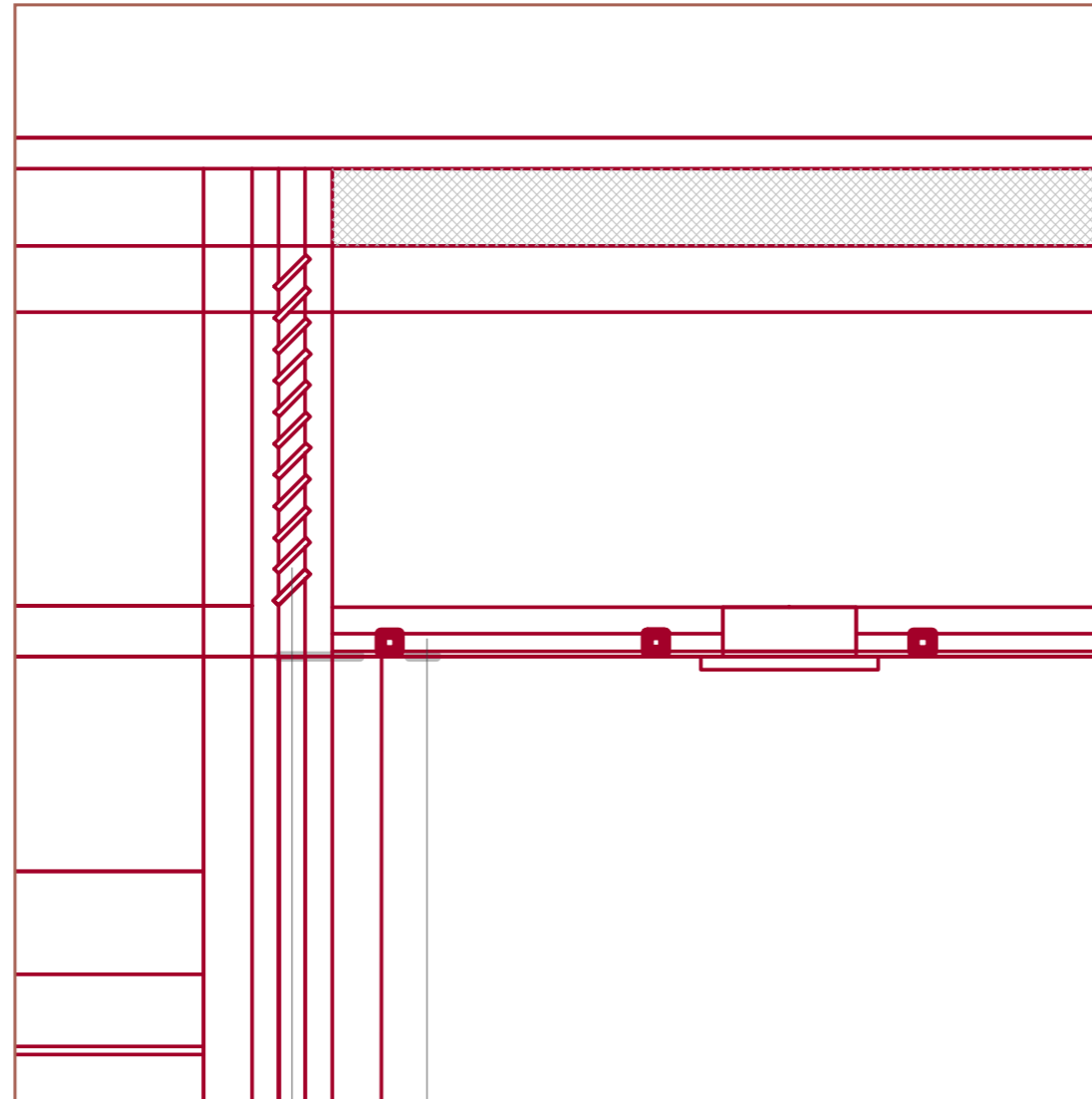


Main Orientation to the Outside

Transformation Proposal: The Office, Interlocking Old and New

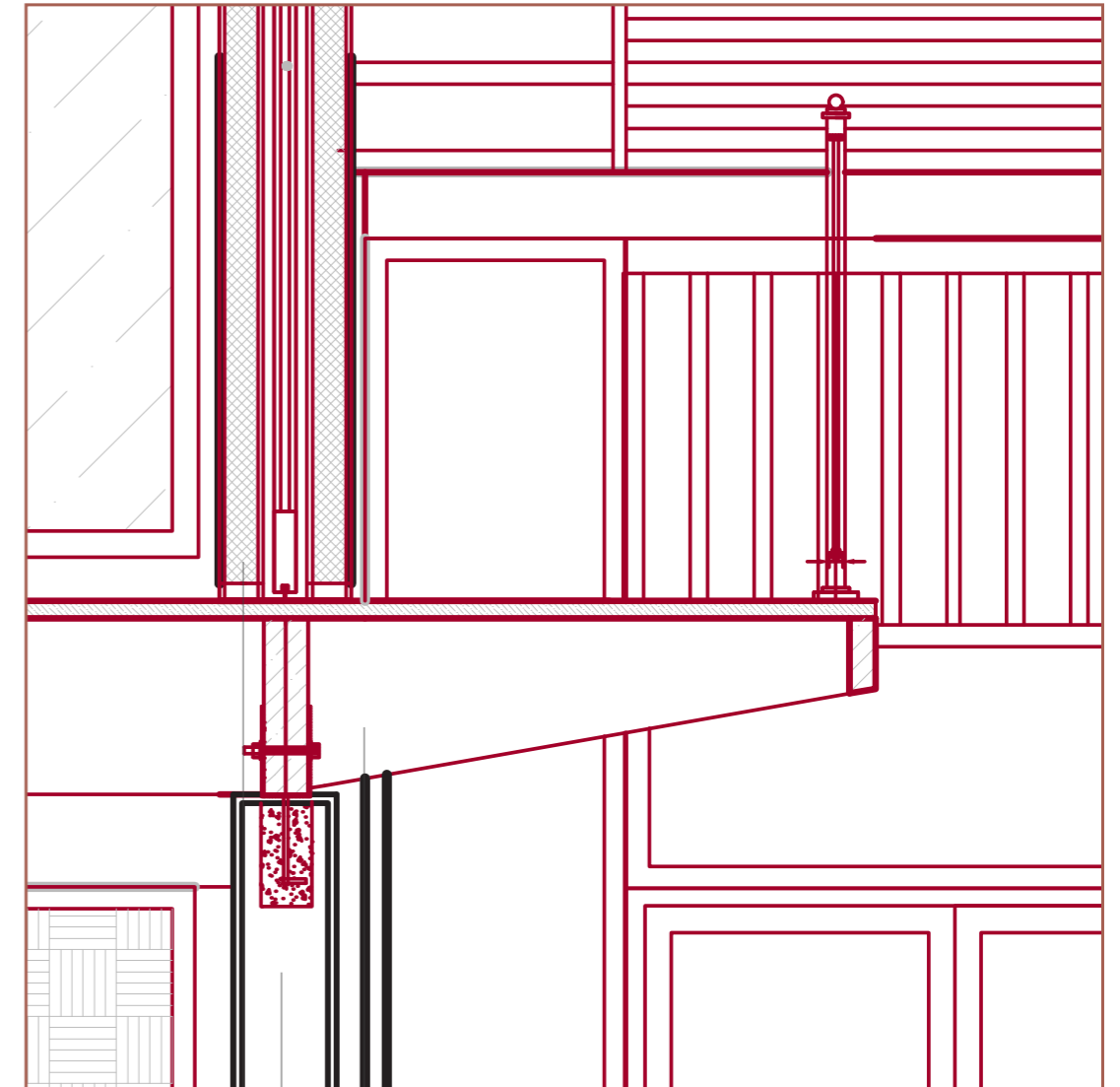
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Wooden Framed
Bamboo Handwoven Ceiling

Wooden Ventilation



Glue Laminated Timber

Existing Wall

Wooden Frame Raffia Palm Fiber Wall
with Cotton Insulation

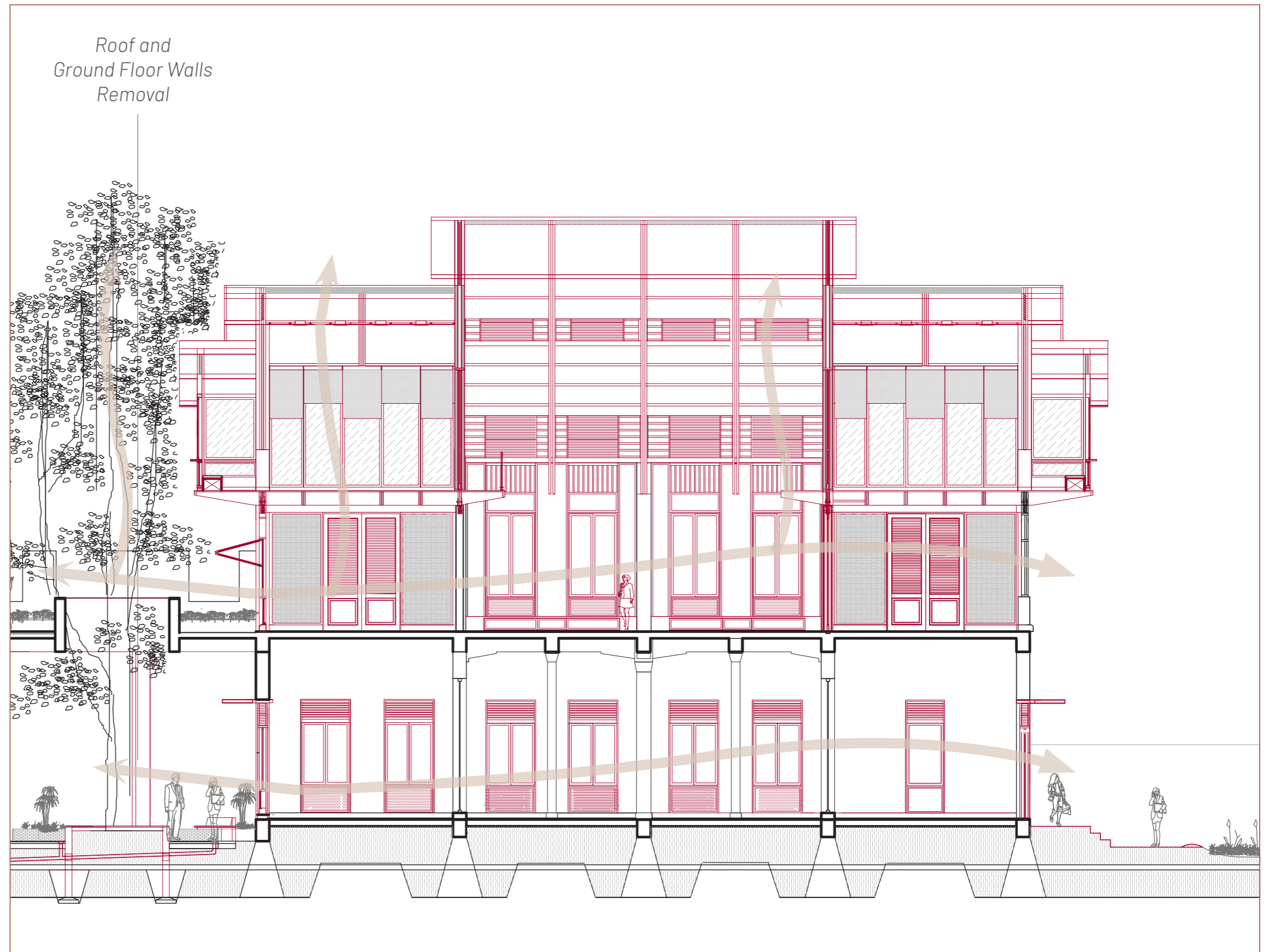
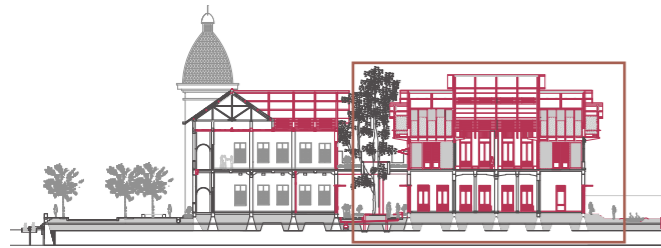
Air and Sound Control for Tranquility



Existing Condition



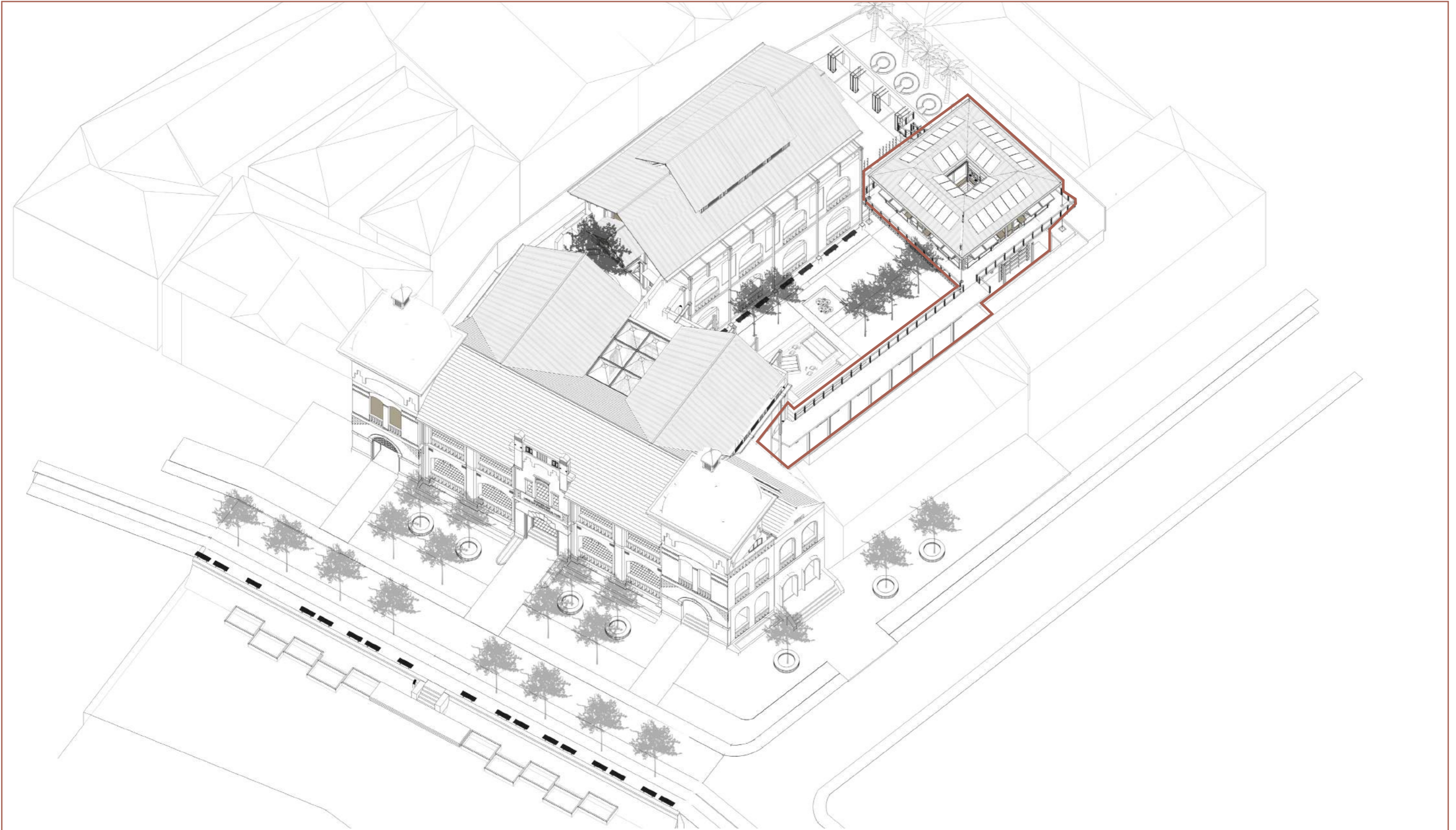
Reversing the Traces of Inequality



Positive Separation: A Space to Breathe



Inspired by the Existing Inside-Outside Quality

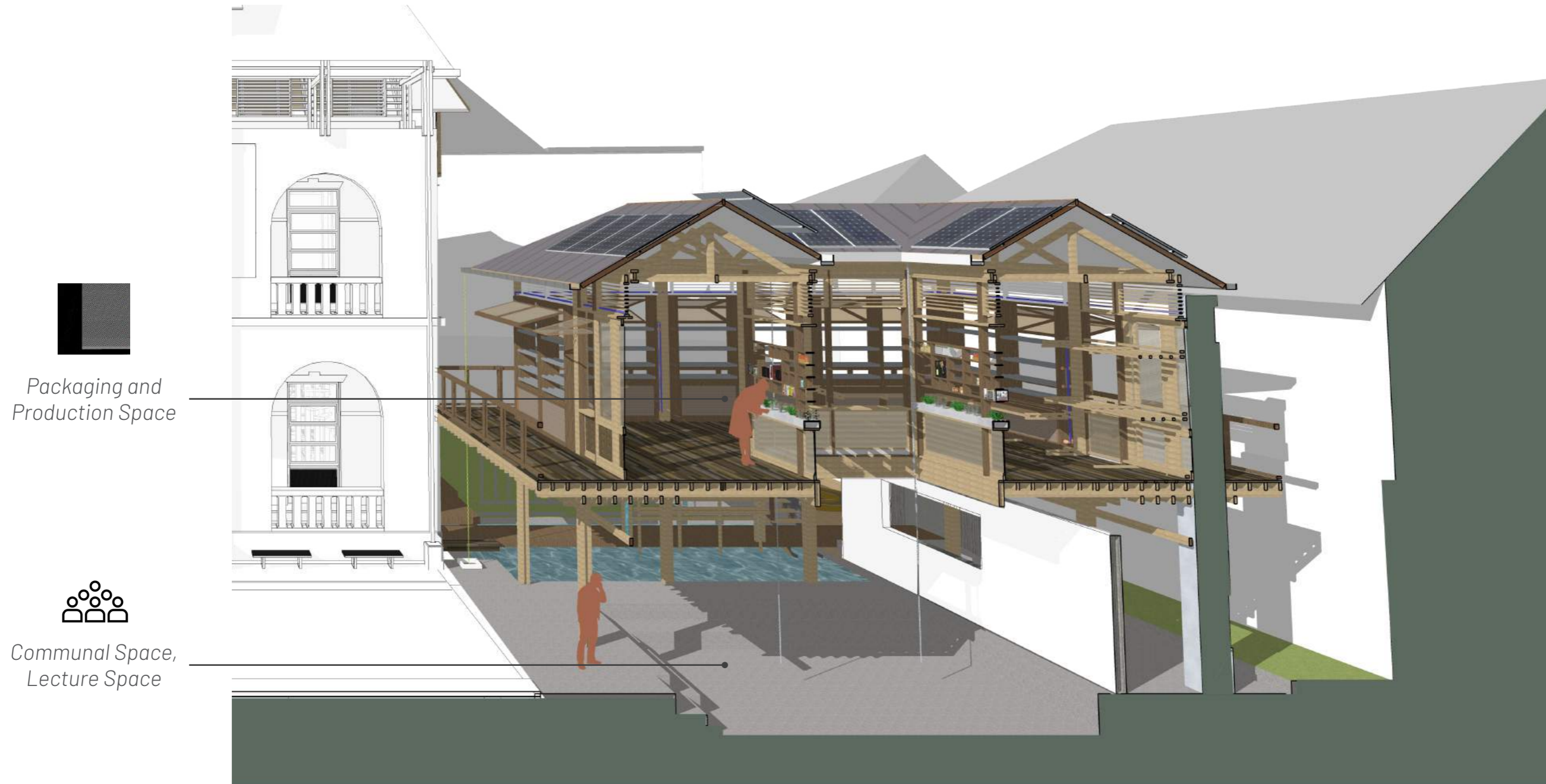


3. The Elevated Production Pod

Transformation Proposal: The Elevated Production Pod, Addition

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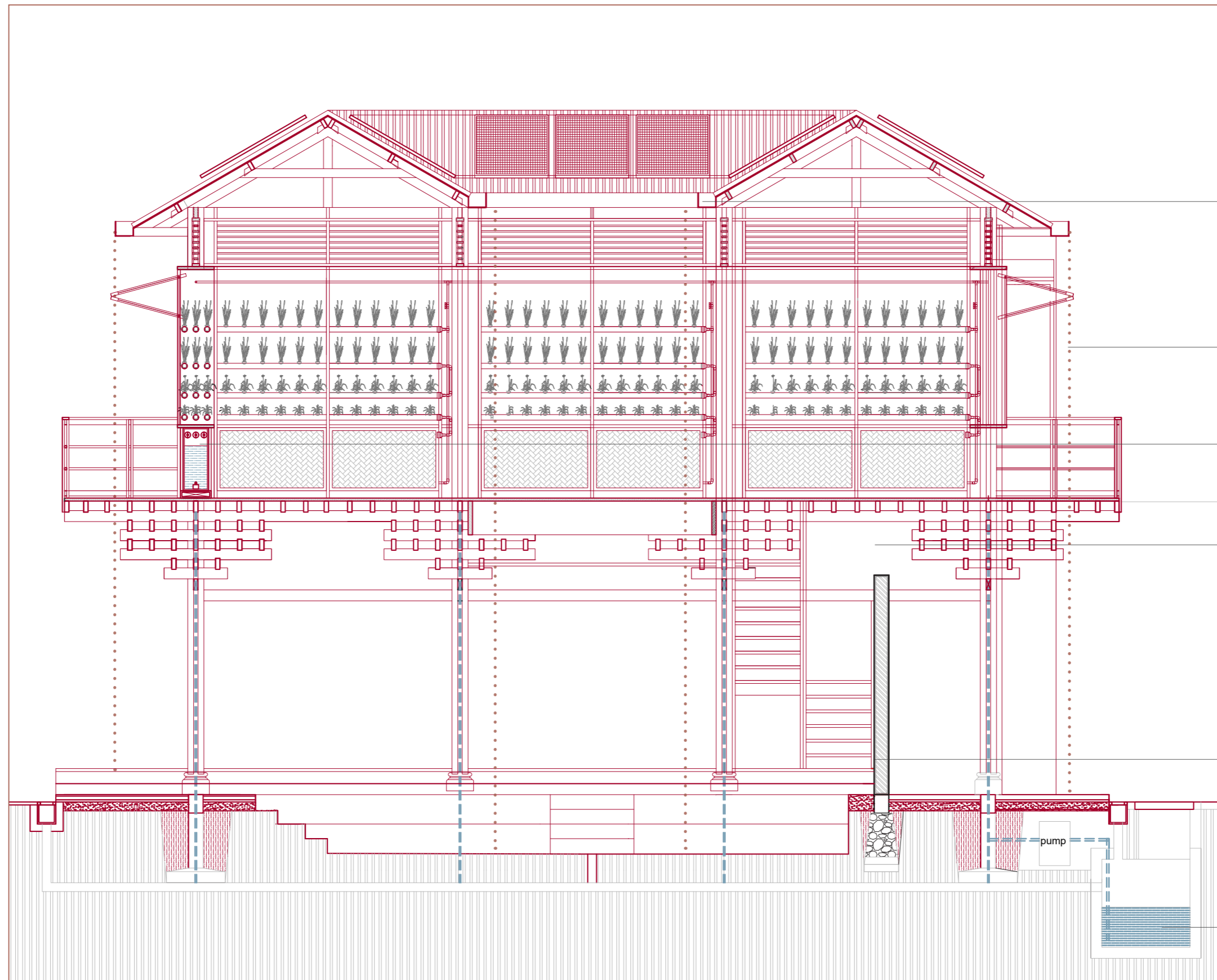
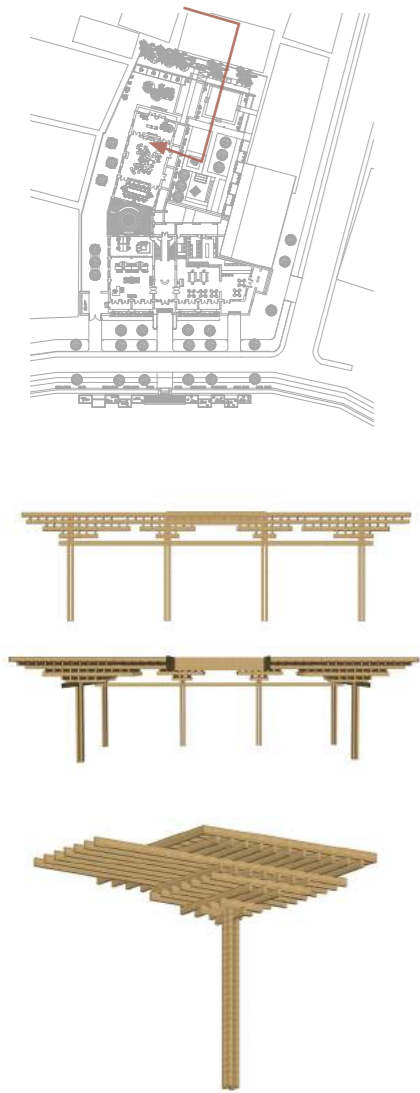


Questioning the Future of Production in the Urban Context

Transformation Proposal: The Elevated Production Pod, Addition

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Water Gutter

Rain Chain

Water for Production

Glue Laminated
Timber 6/15

Existing
Former Garage Wall

Rain Water Storage

Production Pod that Embraces Community and Natural Forces

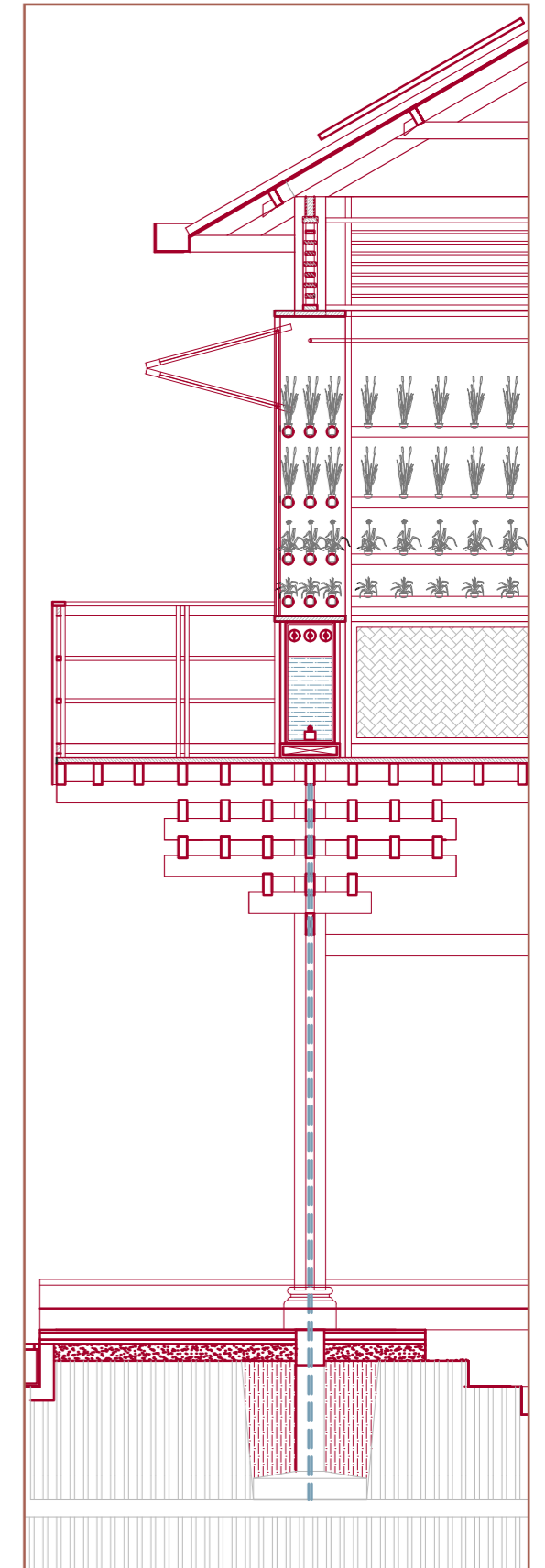
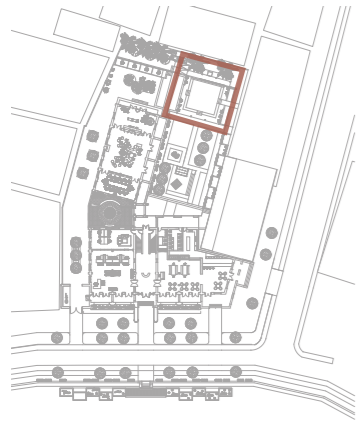


Communal Space/Rainwater Collector

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Production Space on the Facade

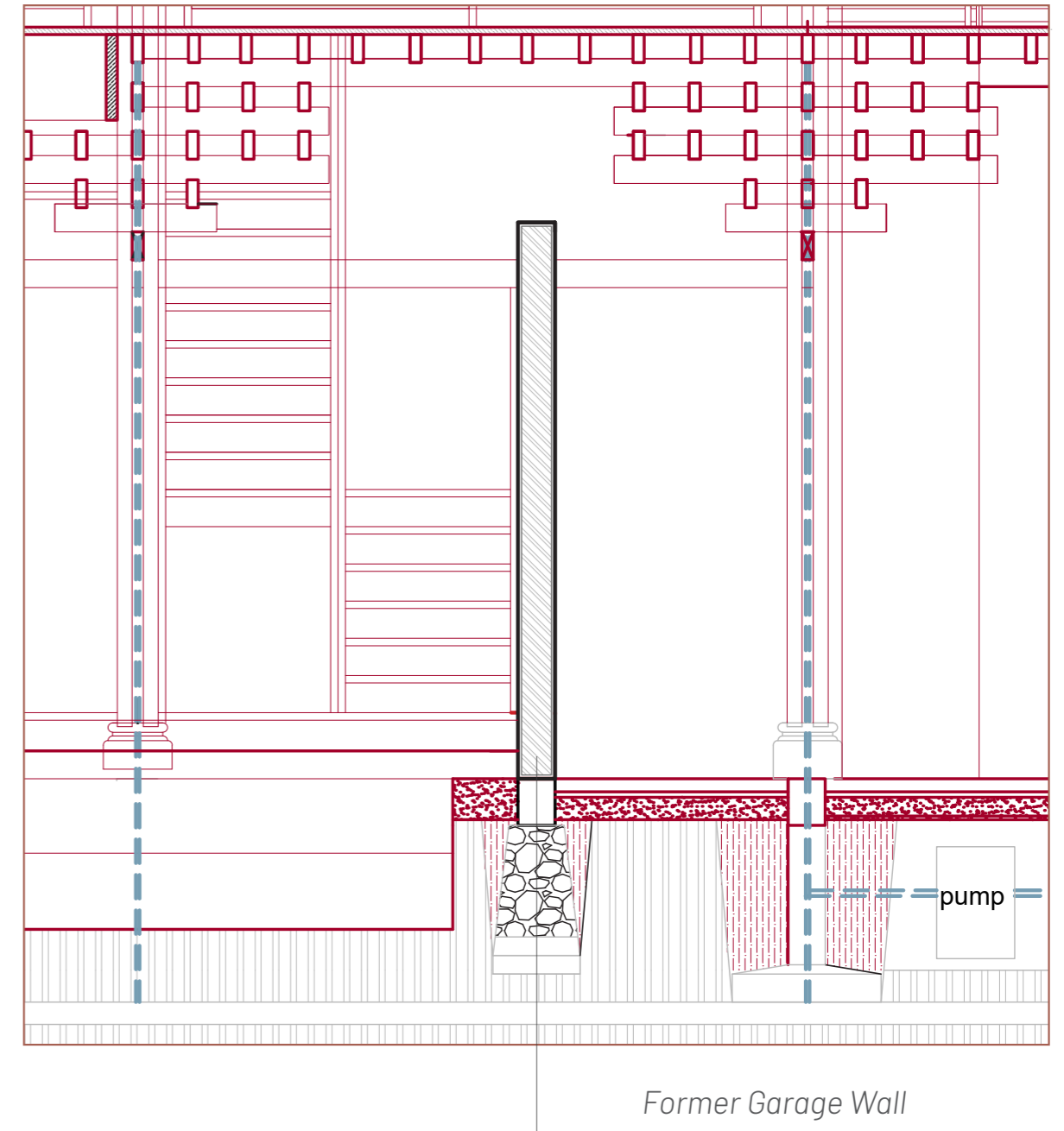
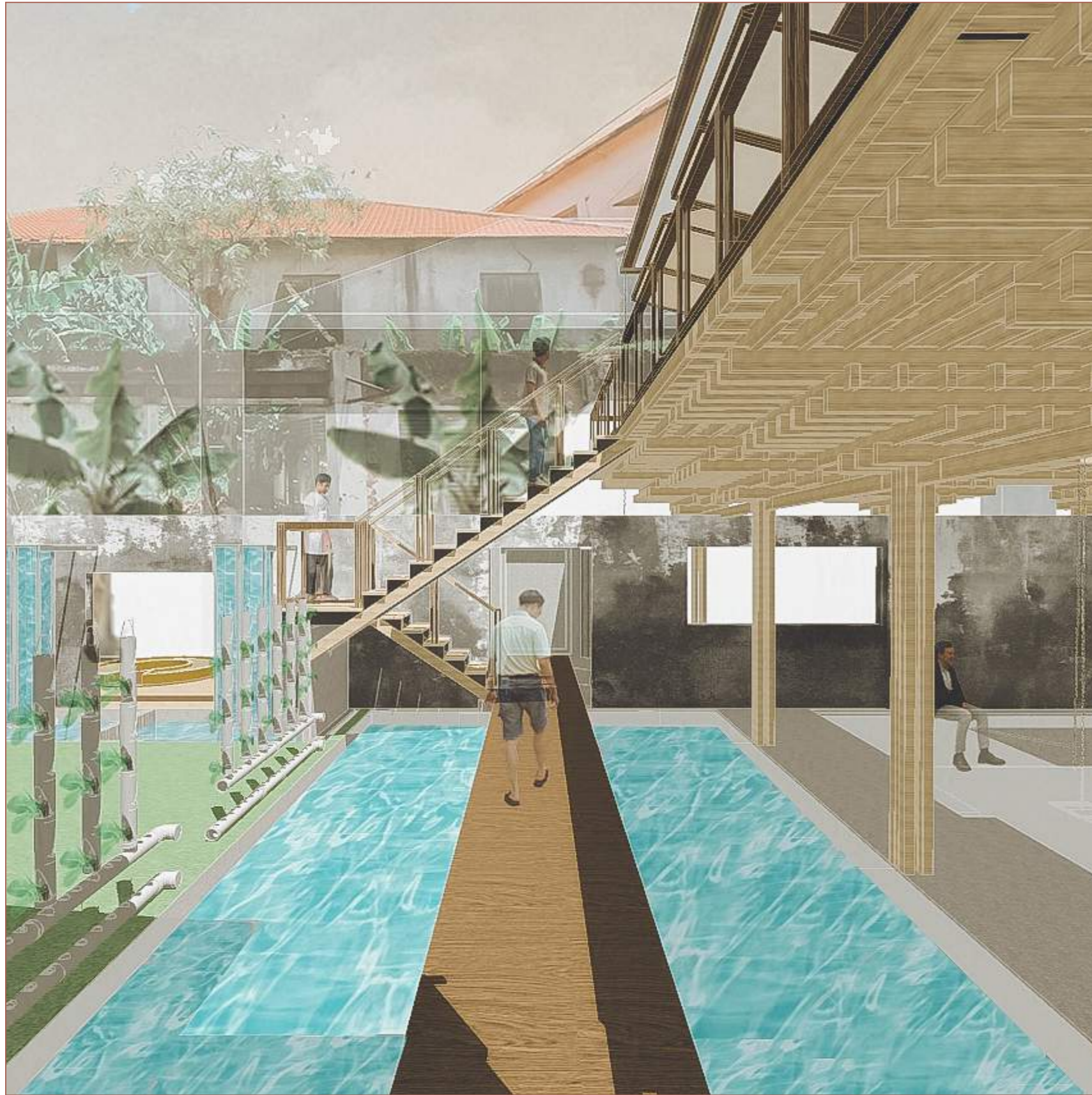


Existing Condition

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The Intervention Confines the Existing

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Strengthen the Corridor Typology



Existing Condition

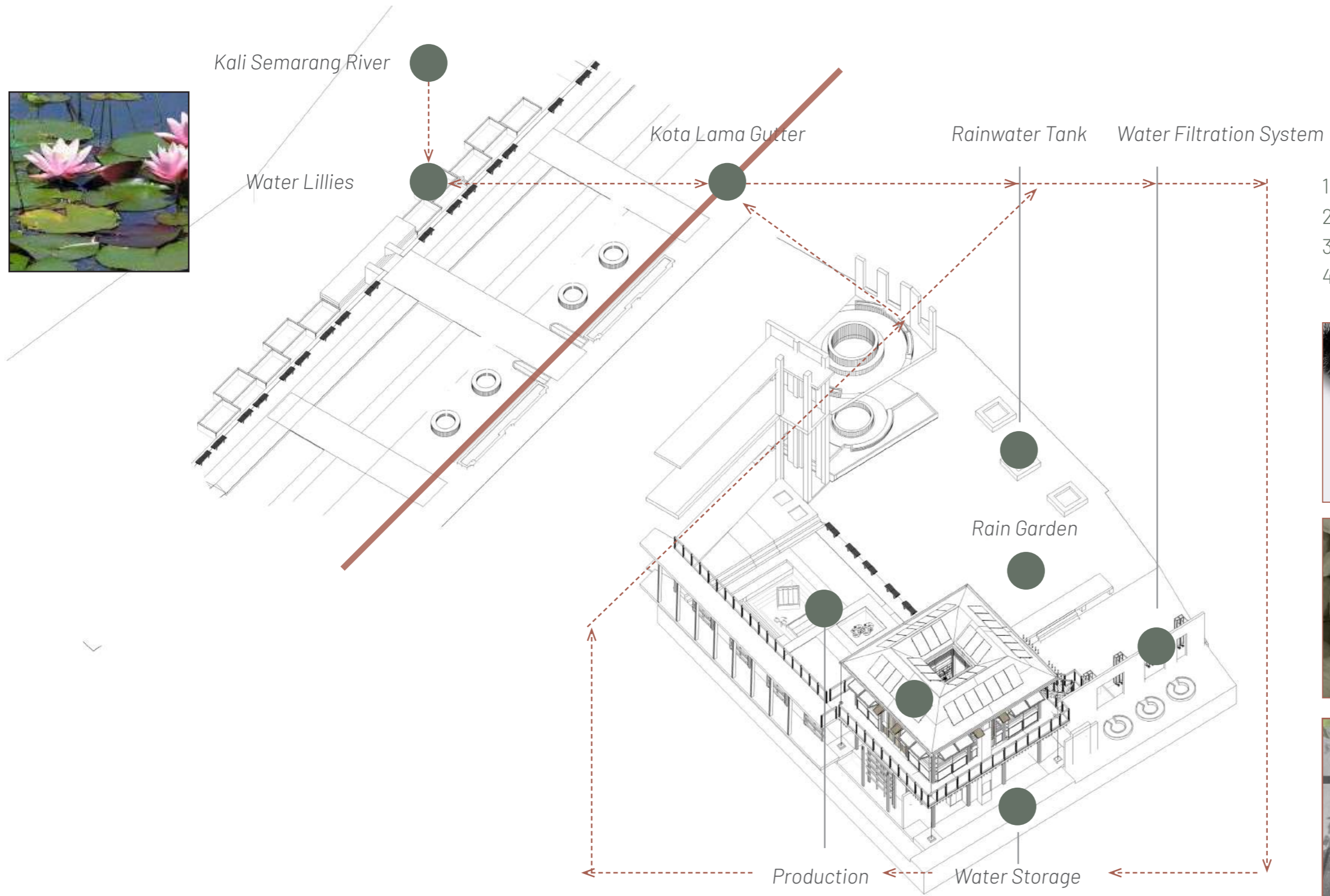


Enhancing the Courtyards



Bridging the Lost Connection to the Surrounding Buildings

Transformation Proposal: Intake - Outake System



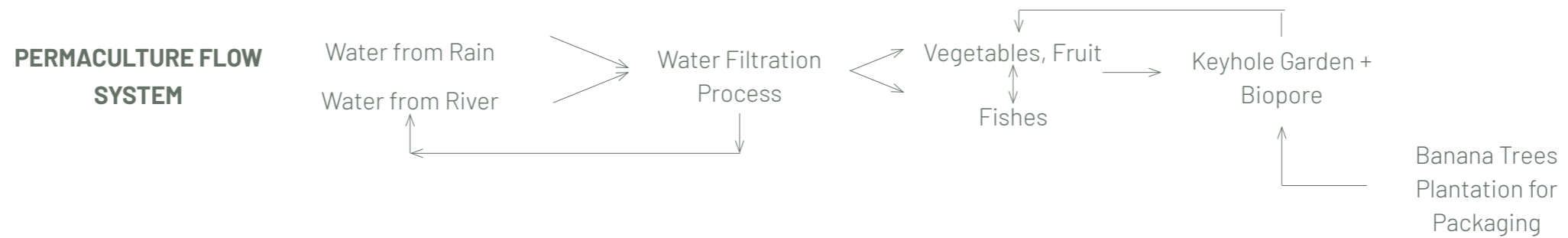
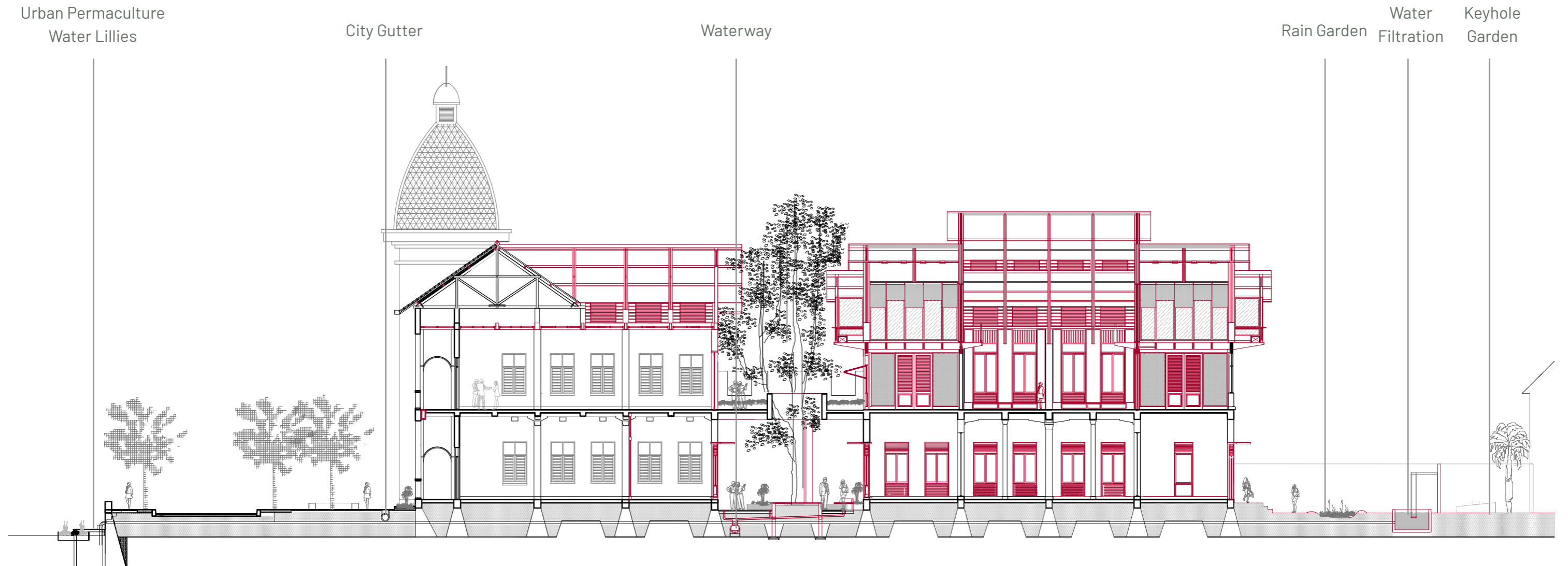
- 1 White and Black Brush
- 2 Bioball - Bacterial Growth
- 3 Ziolith - Polishing Water
- 4 Charcoal - Absorbing Toxins



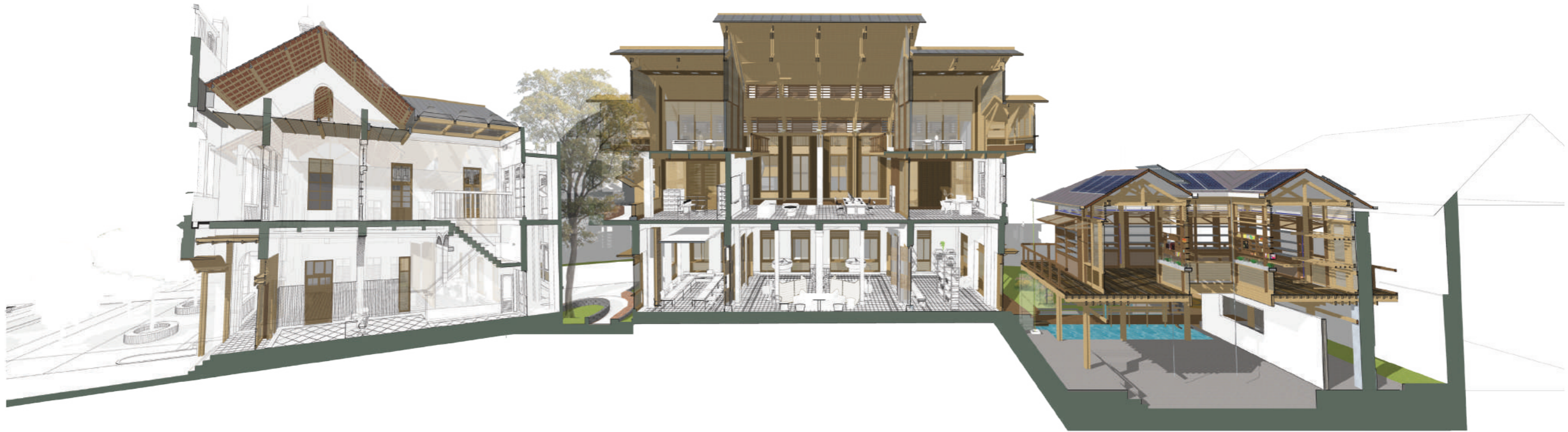
Transformation Proposal of PTPN IX into an Urban Permaculture Co-Operative Office

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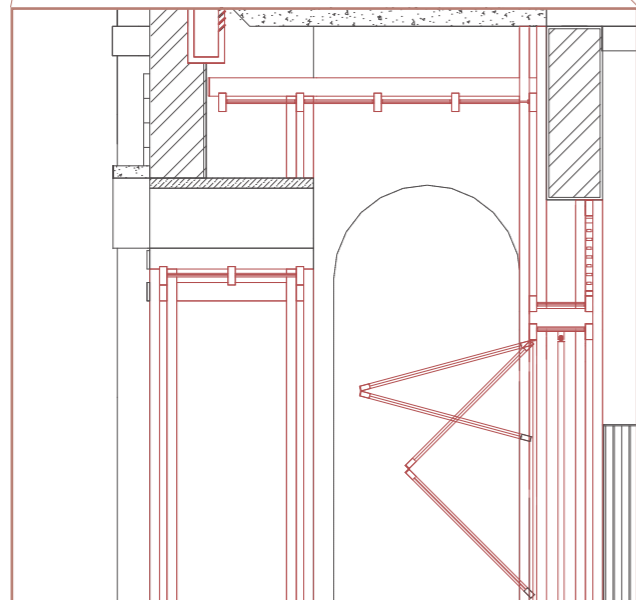
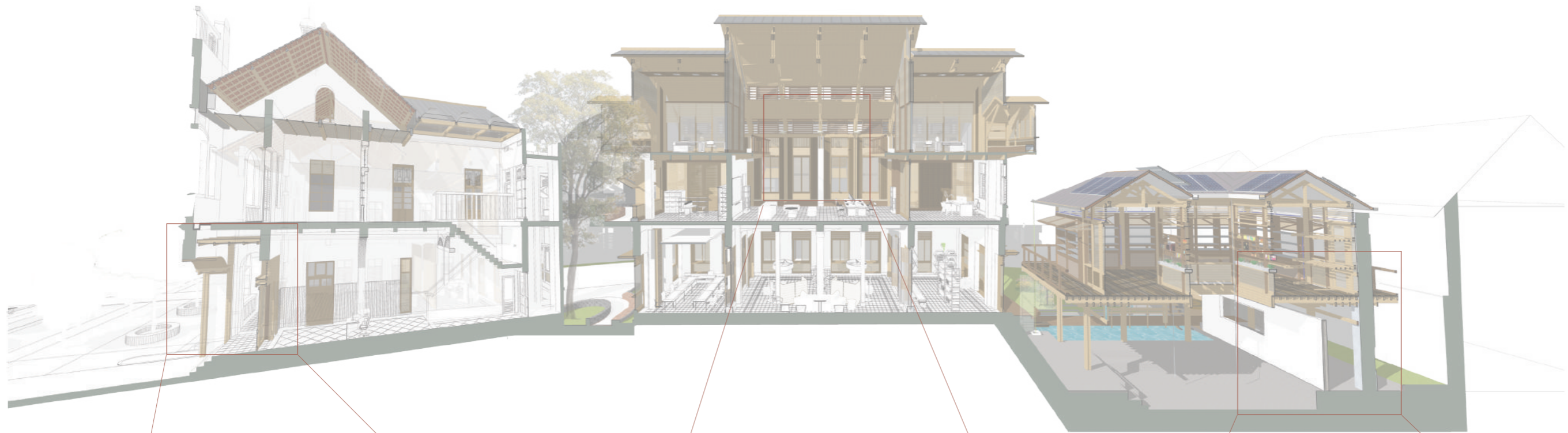


Urban Permaculture as Building System

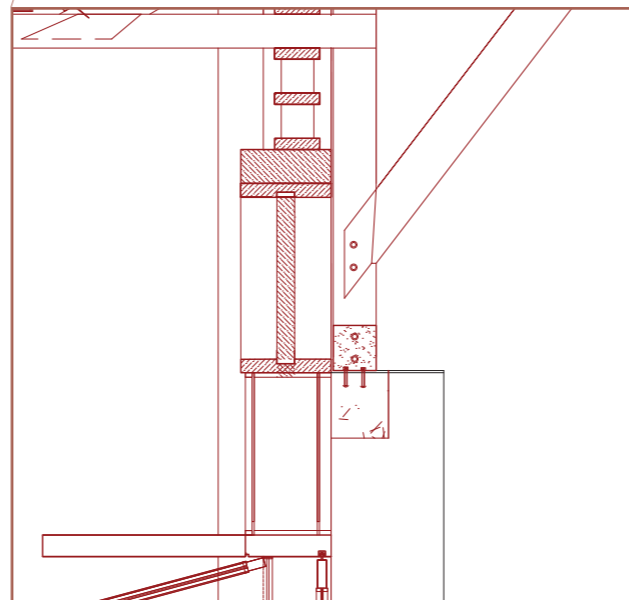


How can shared heritage architecture that embodies a conflictual past be appropriated as a part of local community's practices in Kota Lama Semarang?

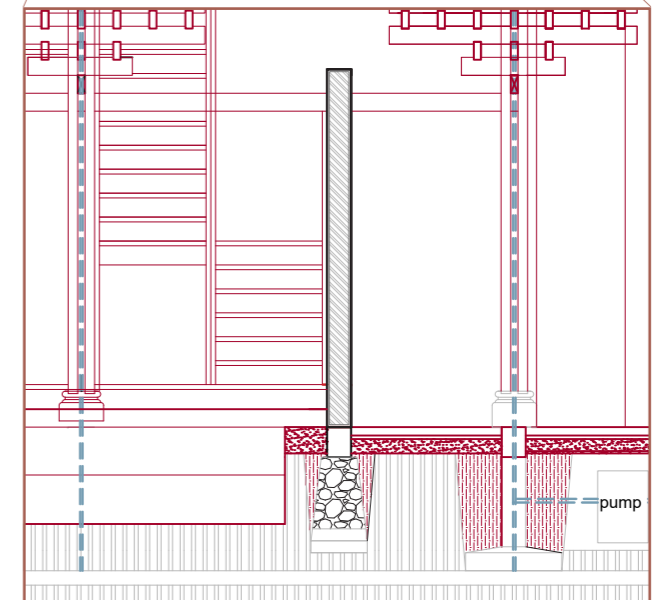
How can shared heritage be adapted to improve the agricultural trading practices and its relation to the natural environment?



Acquiescence



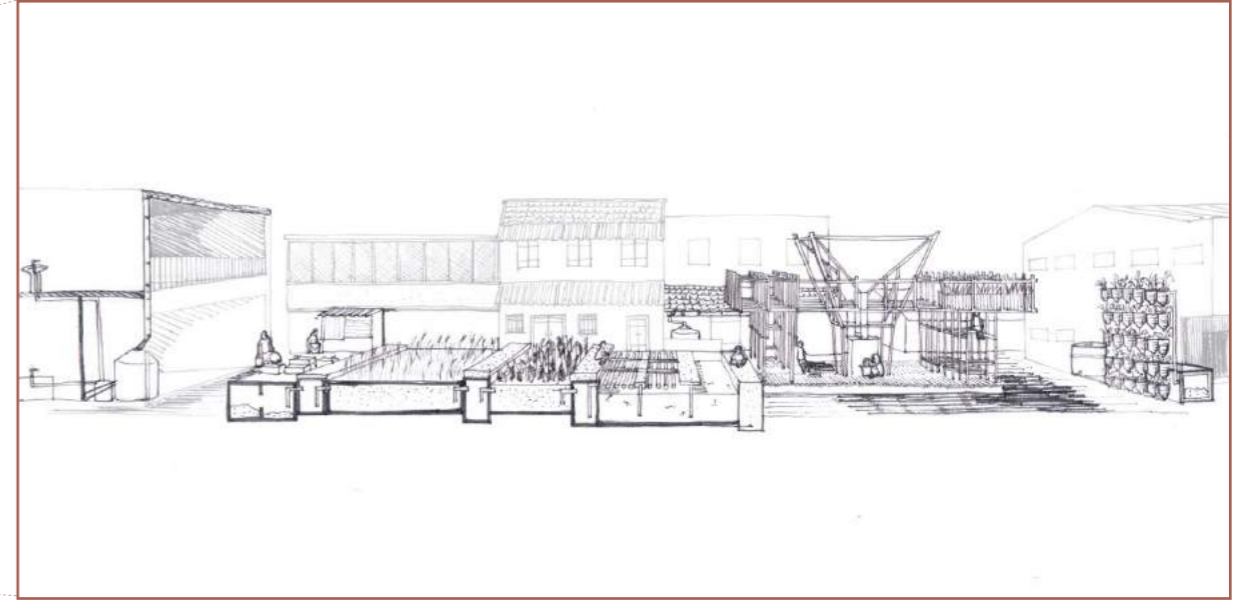
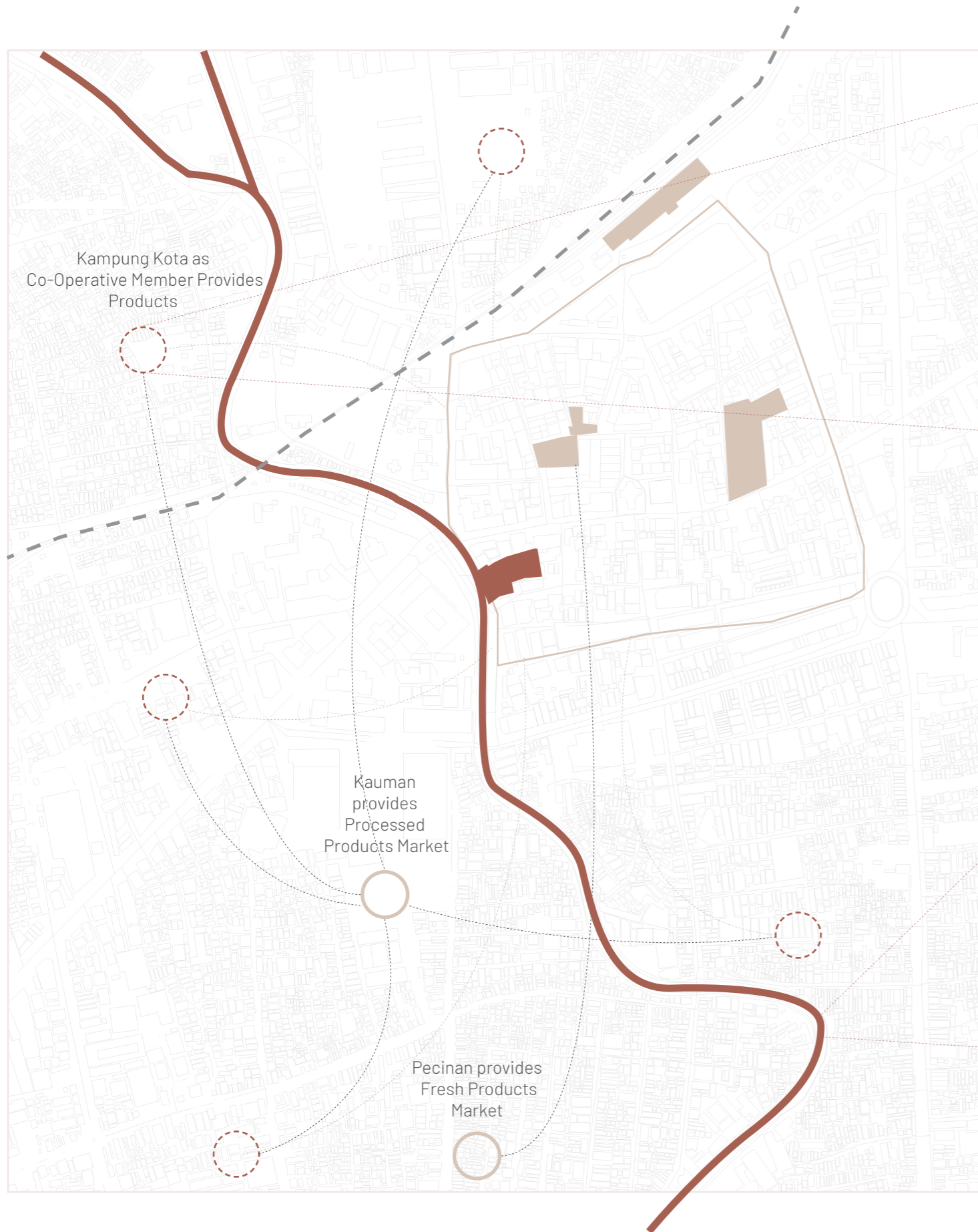
Coexistence



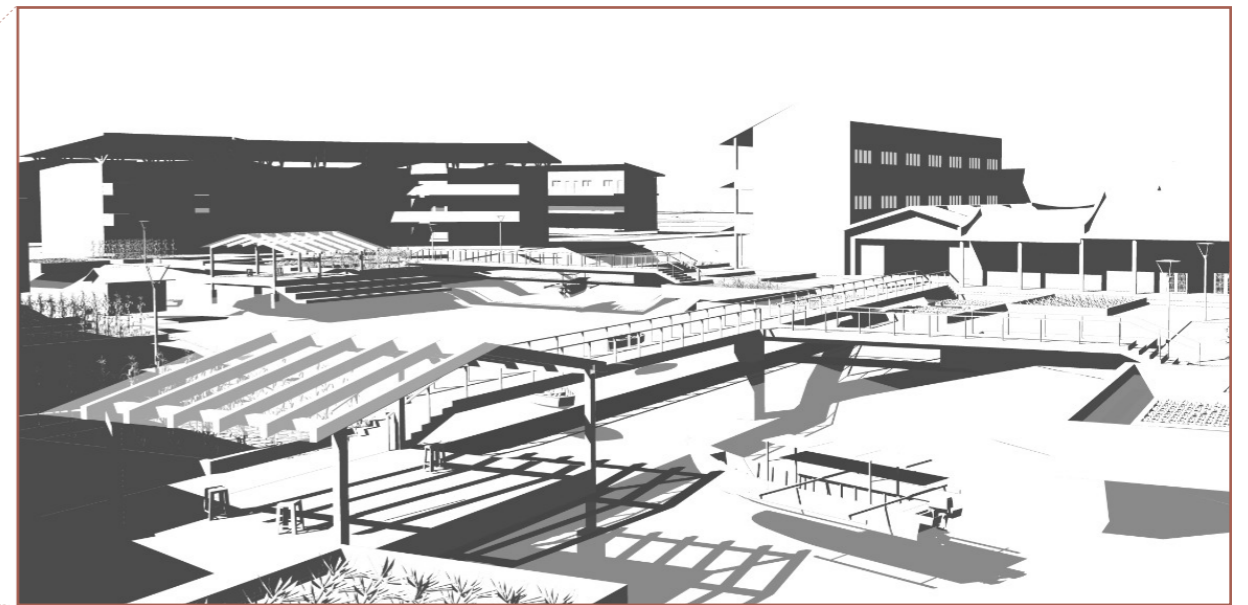
Dominance



Significance to the Society, Appropriating Colonial Heritage



Water Treatment with Socio-Production Space in Kampung Kota
"Kampung Kali"
by He Yi Fong (Joyce), Landscape TU Delft, 2020



Urban Permaculture in Pecinan Riverside
"Flush and Splash"
by Prinka Anandawardhani, Urbanism TU Delft, 2020

The Project's Relation to Other Proposals in Shared Heritage Lab Studio



Rijkdienst voor het Cultureel Erfgoed
Ministerie van Onderwijs, Cultuur en
Wetenschap



University Fund

Ananta Vania Iswardhani

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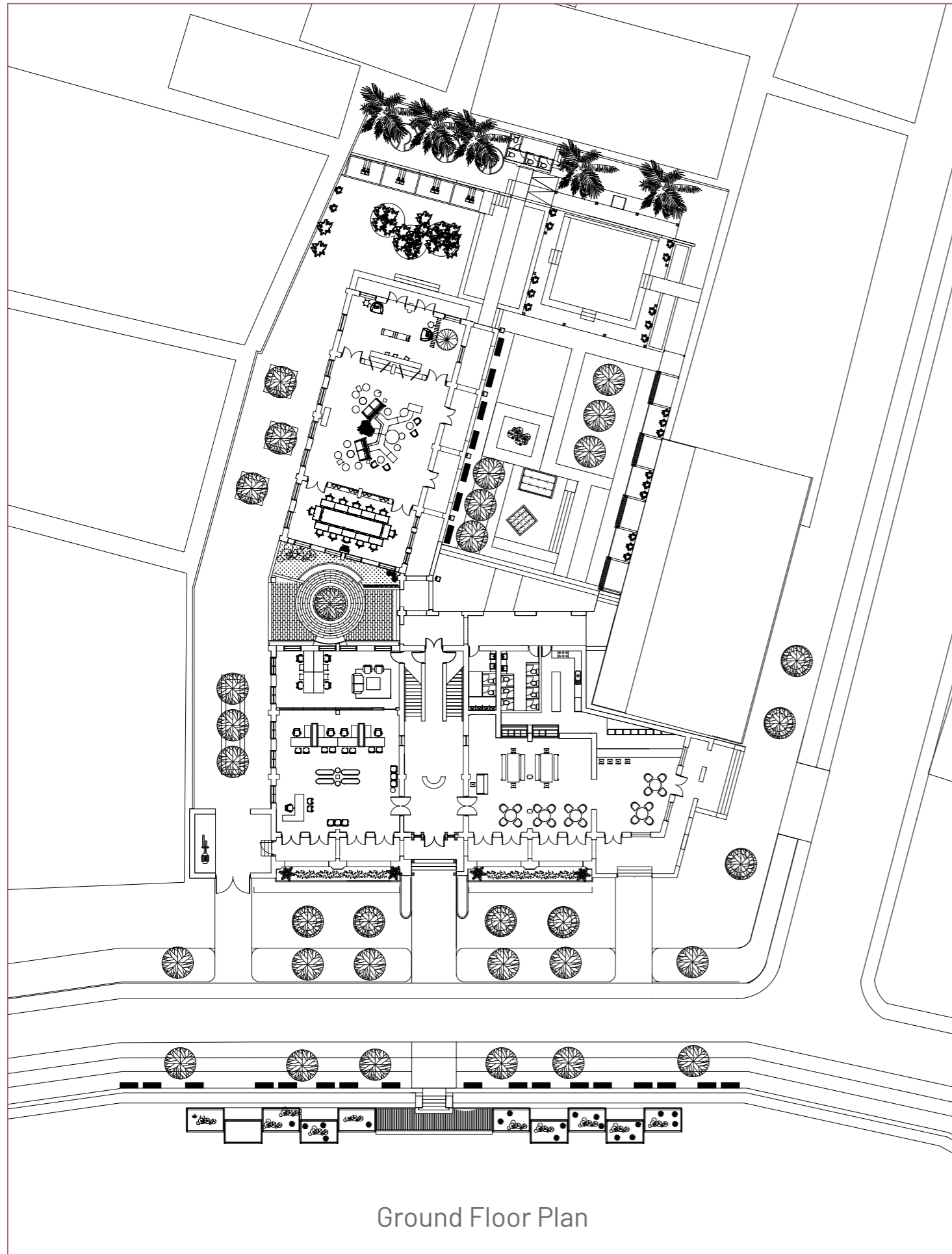
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*“To love your country is
to know it in its entirety:
its blood-soaked history
and glamorized victories.*

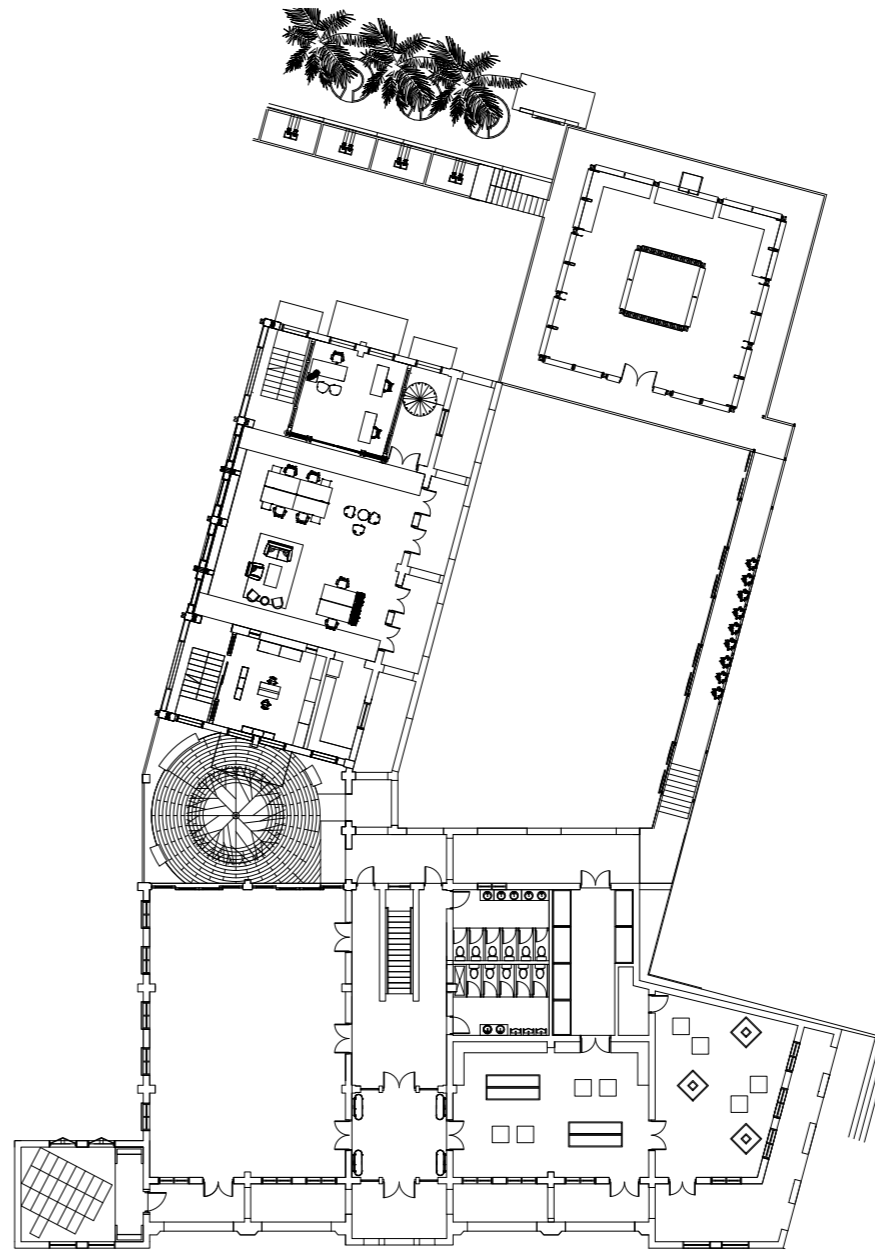
*To demand reparations
for what has been done wrong
and continue
what has been done right.”*

- Kudeta, 2020

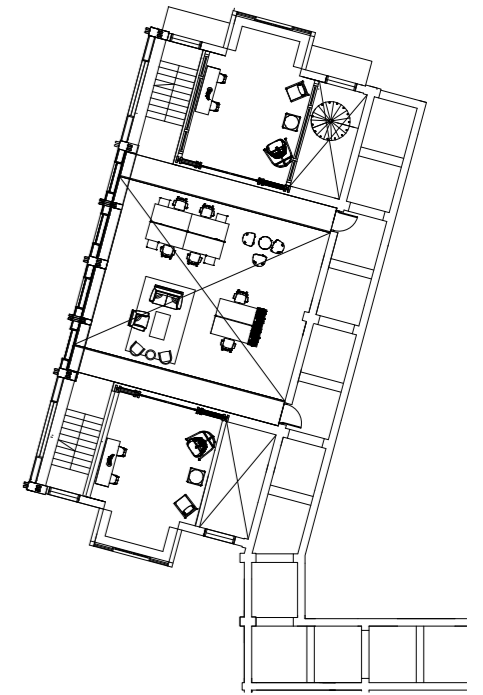
Matur Nuwun. Terima kasih. Thank you. Dank je wel.



Ground Floor Plan



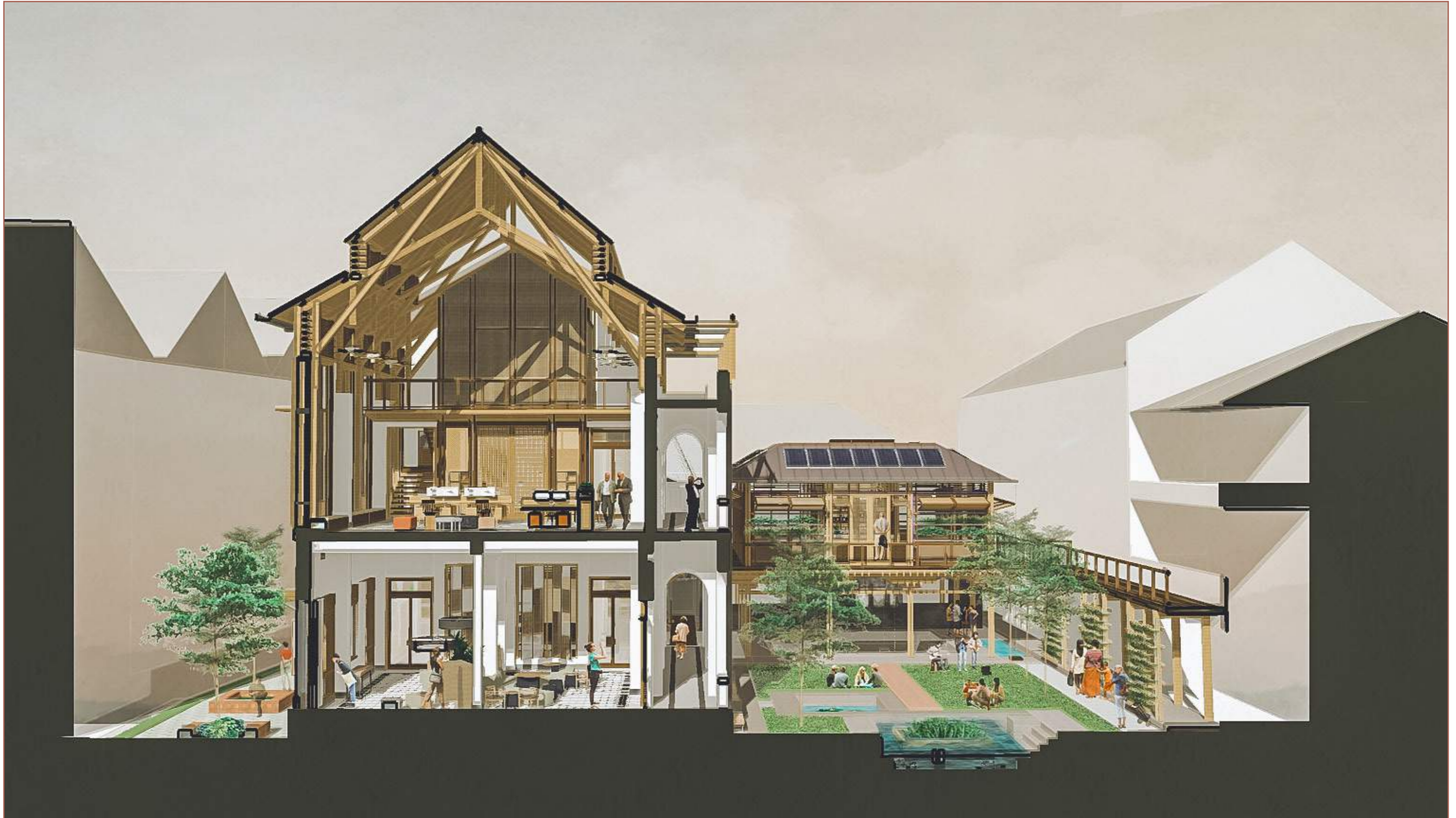
First Floor Plan



Mezzanine Floor Plan



Longitudinal Section through the Site



Section through the Site