

Xinyu
Vivian
Tang

2021-2024
Selected Works

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Ithaca Community College

Academic
Community College



04 Seneca Falls Museum

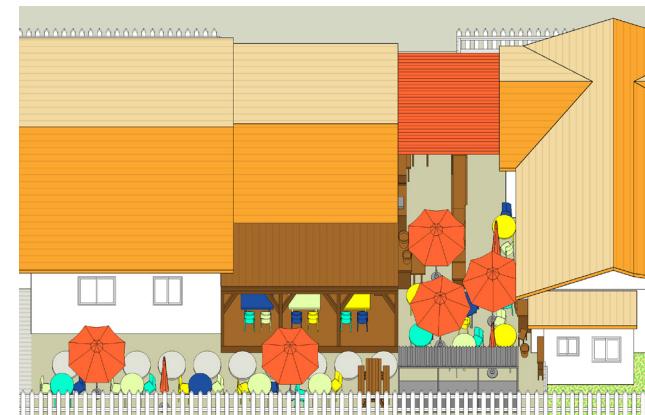
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Office

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Ithaca Community College

Academic Spring 2024

Typology: School

Cornell University Gensler Visiting Critic Studio

Instructor: Róisín Heneghan, Ekin Erar

Location: Ithaca, New York, United States

Floor Area: 57,920 sf.

All designs and drawings done by author.

Nestled between Cornell University and Ithaca College and a several hours' drive from any major city, Ithaca is the quintessential college town, a place to study sheltered from other social and economic demands. Its economy, absent any other large employers, is therefore wholly tied to its educational institutions. Ithaca promotes a specific lifestyle accessible only to students who can afford to take on substantial debt, feeding inequity in higher education institutions and in the college towns that host them.

Through the design of a community college in Ithaca on the north and south river banks of the Six Mile Creek near the Cayuga inlet where there is no other place similar to the intimate water access that it provides, a new urban gesture with appeals of nature lures the pedestrian wonderers into the depth of exploration.



Urban Corridore Urban Activation Commercial Residential Civil Park Cayuga Inlets



Northern Connection to Ithaca Down Town via West State Street

Ped. Bridge Urban Connectivity New Urban Rhythm Six-Mile Creek River Front Development Cayuga Inlets



Northern Connection to Ithaca Down Town via West State Street



Northern Connection to Ithaca Down Town via West State Street



Signworks Building and Waterfront Plaza



Storage Facility at the waterfront



Vcant Storage Facility at the waterfront



Storage Facility at the waterfront



Former Air Plane Factory in the South Bank



Law Firm in the South Bank



North Entrance Plaza from the Major Urban Corridor



Roof Plan



Enclosed Space and Covered Space

Penetrable Ground Plane



Ground Floor Plan



Pedestrian Bridges and Public Plaza

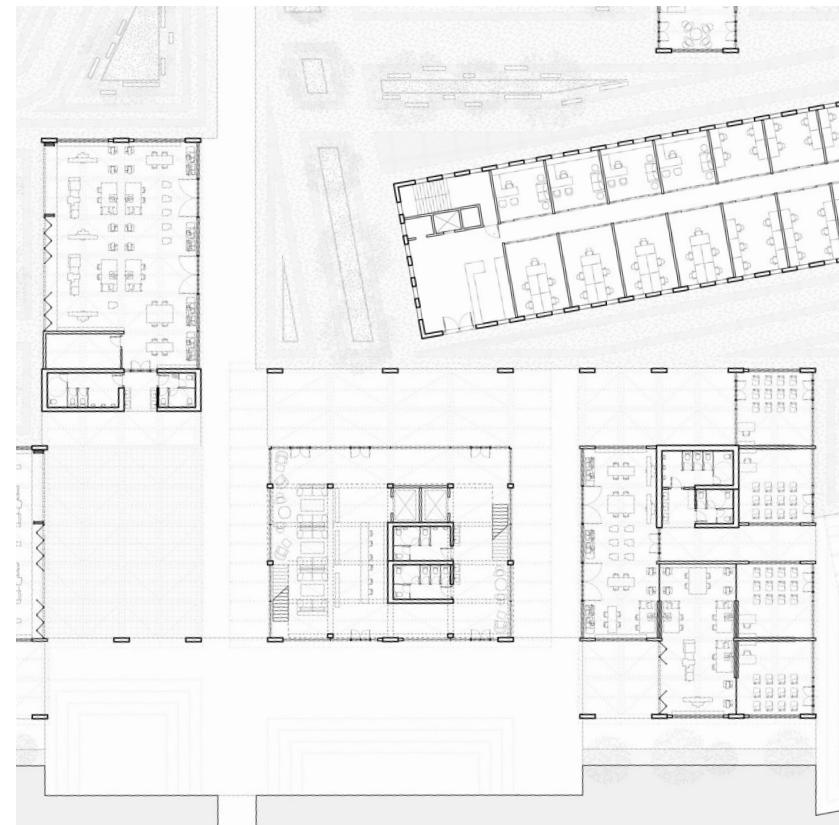
Pedestrian Bridges and Community College Plaza



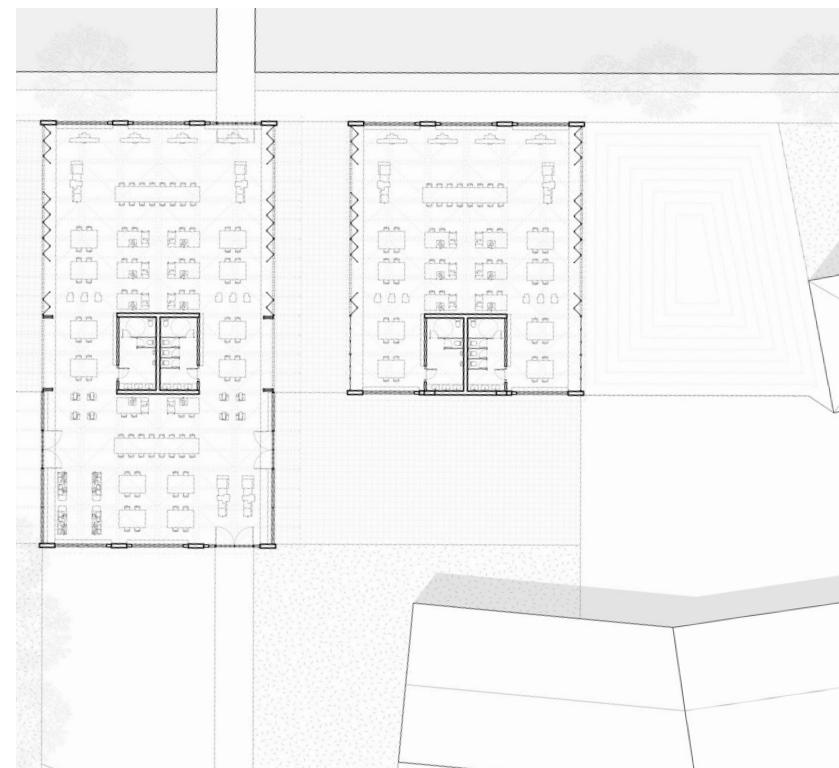
Enclosed Seminar Room, Covered Outdoor Workspace, and River-Front Community Plaza



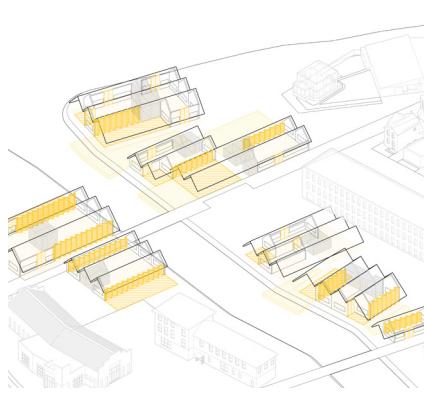
Bird's Eye View of the Community College and Public Space from the Urban Corridor



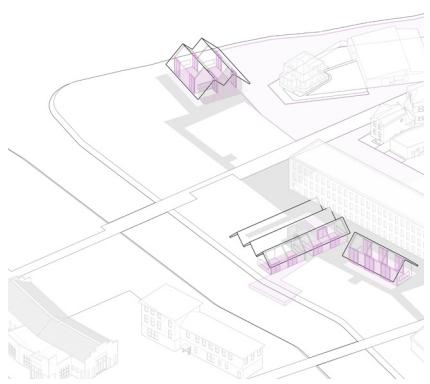
North River Bank Workshops and Seminar



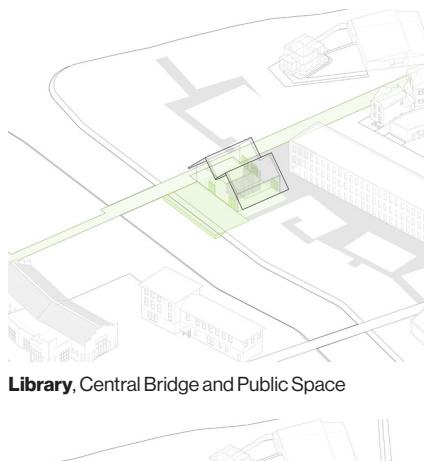
South River Bank Workshop



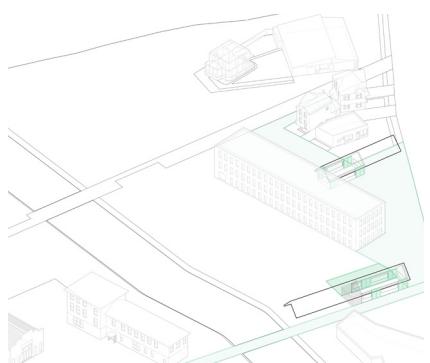
Wood Workshops and Outdoor Open Area



Seminar Rooms and Circulation



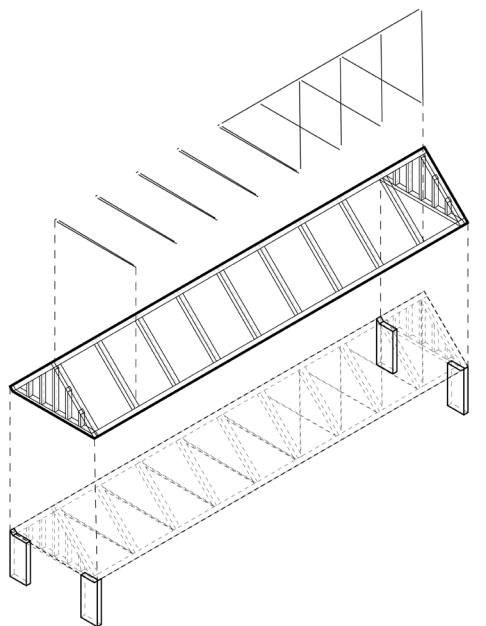
Library, Central Bridge and Public Space



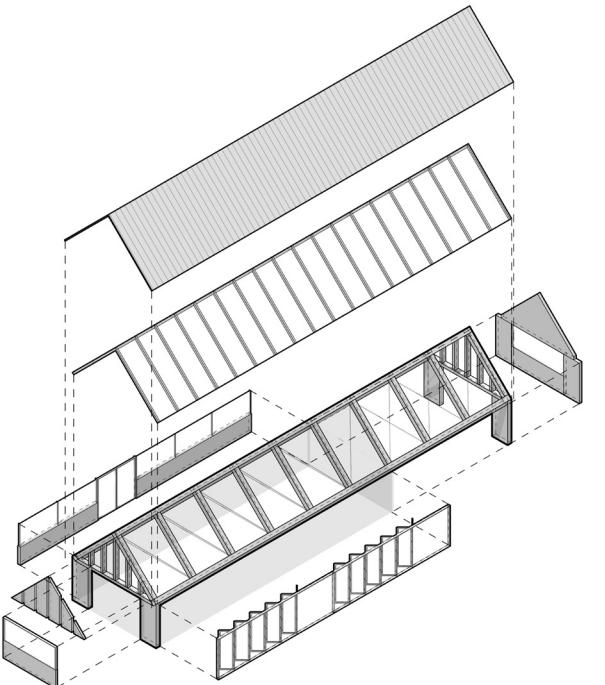
Cafe and Public Plaza



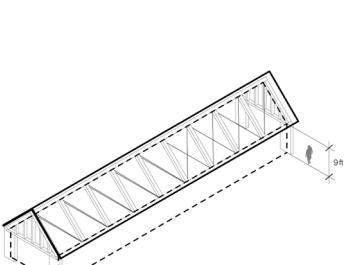
View of the Medium Size Workshops from River-Front Community Playground



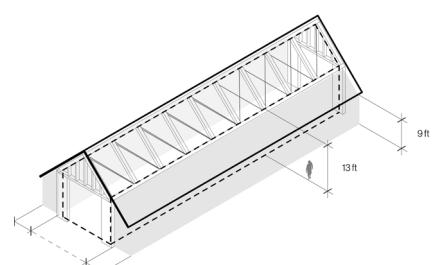
Folded Plate Timber Truss and Column Unit



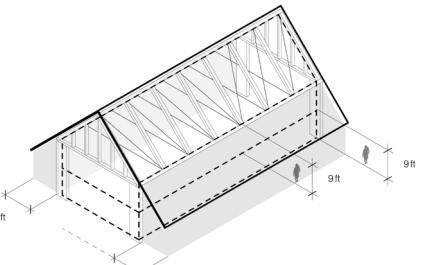
Building Envelope System



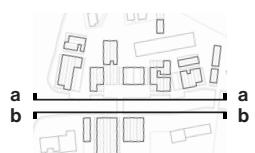
Basic Typology



Tall Shaded Typology



Double Height Typology



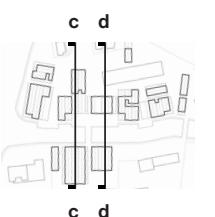
North River Bank Elevation a-a



South River Bank Elevation b-b



Small Wood Workshop Interior



Section c-c



Section d-d

Seneca Falls Museum

Academic Fall 2022

Typology: Museum

Syracuse University Comprehensive Studio VIII

Instructor: Terrance A. Goode

Location: Seneca Falls, NY

Area: 28,650 sf.

Designed in collaboration with Yi Zhang, revised by author.

All drawings done by author.

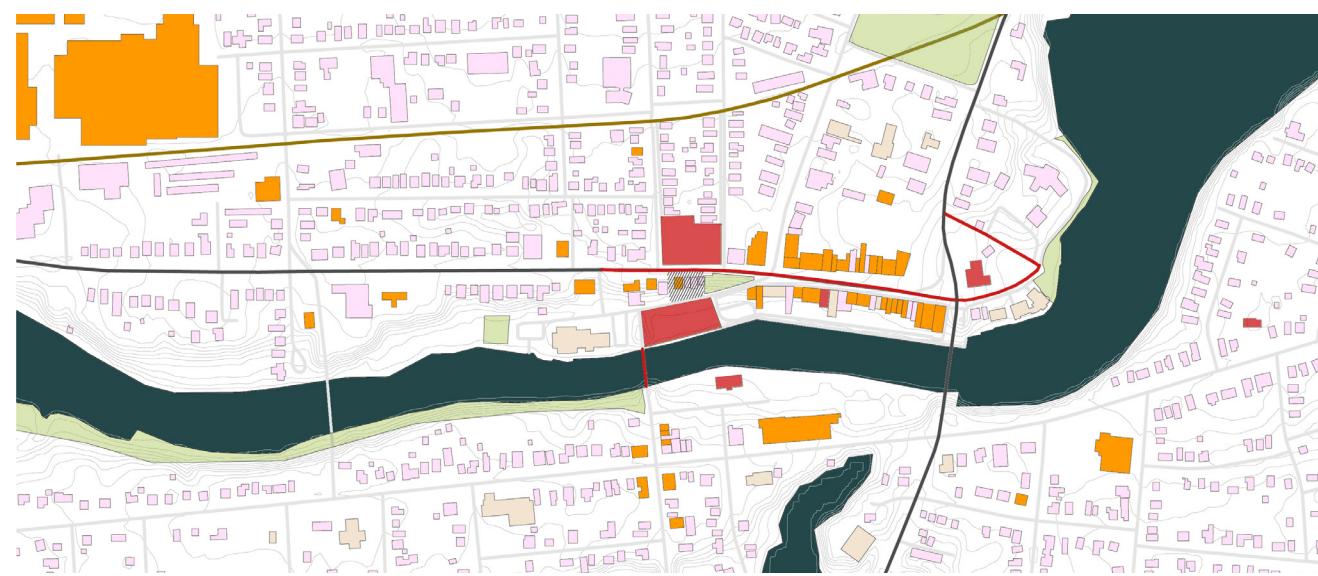
The quilt is an article of utilitarian value in its role as a bed covering. It is also an instrument of women's socialization in its role as the product of quilting bees and other collaborative efforts.

The social history of Seneca Falls also informs the town's role as site of the Museum of the American Quilt. It is the site where the first convention for women's rights was held in the Wesleyan Methodist Chapel and stands several significant memorials such as the Women's Rights National Historical Park.

The quilt as an artifact whose construction materials and techniques can contribute to its meaning in many ways, and this project intends to create an analogy of the quilt to architecture both in the tectonics and details of material expressions that embodies the spirits of the women's rights. By this way, we create an architecture that pays tributes to the site's cultures and at the same time honors its physical fabrics.

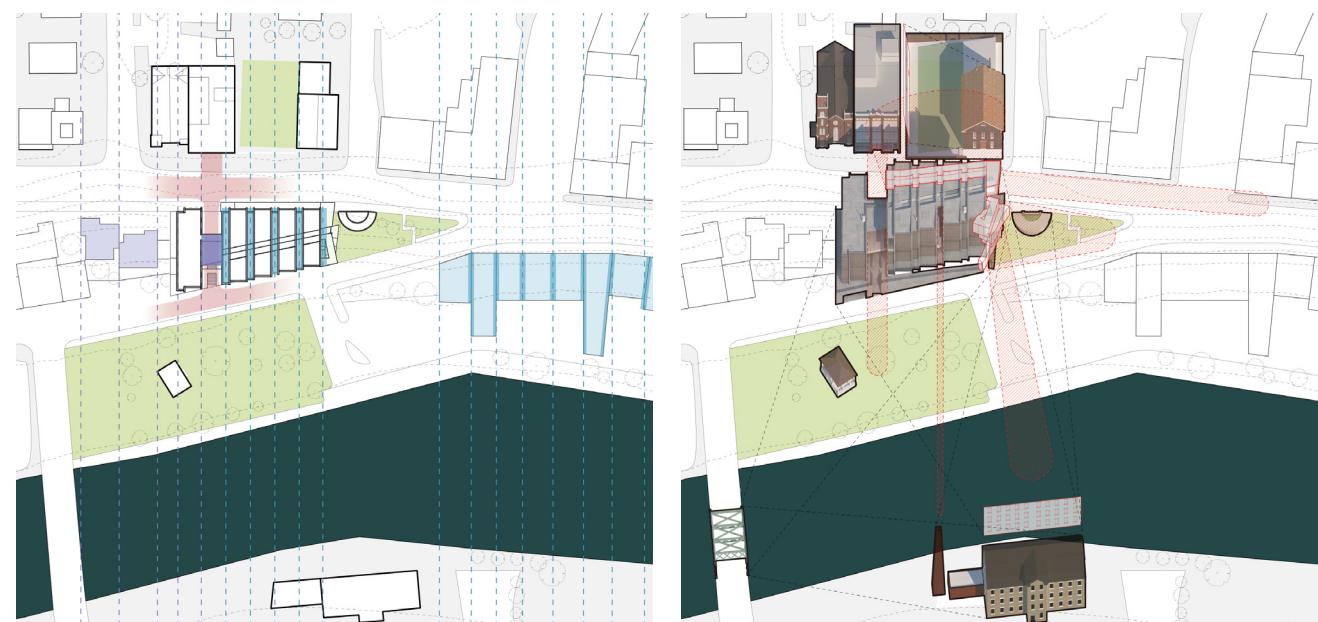


■ Women's Rights ■ Residential ■ Institutional ■ Commercial ■ Park ■ Erie Canal



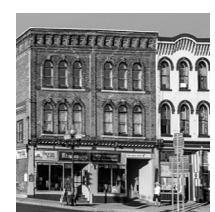
Seneca Falls Down Town Context

■ Urban Rhythm ■ Residential Rhythm ■ Urban Connection ■ Existing Views ■ New Views ■ Erie Canal



Fusion of Urban Rhythms

Existing and New Views towards the Monuments



Seneca Falls Down-town Architectures



Wesleyan Chapel



Women's Rights National Historic Park



National Women's Hall of Fame



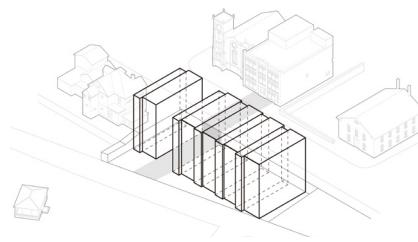
It's a Wonderful Life Bridge



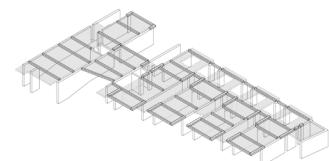
View of the Site from Across the River



Northwest Axon



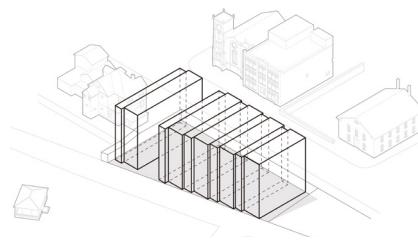
1. Aligned Entrance



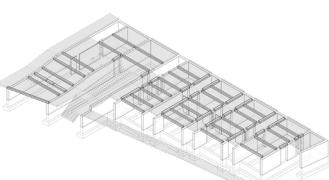
2nd Floor Structure



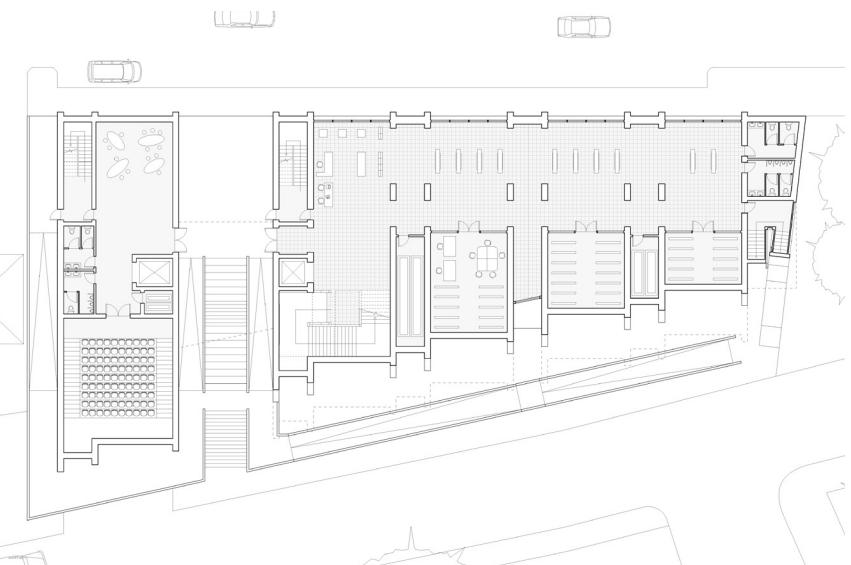
2nd Floor Plan



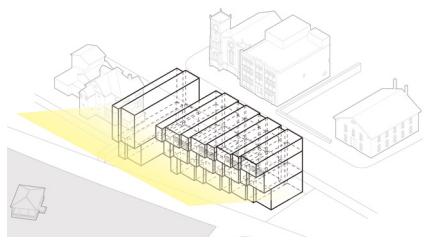
2. Adapting Massing to Site



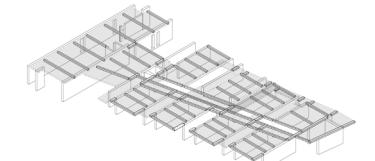
1st Floor Structure



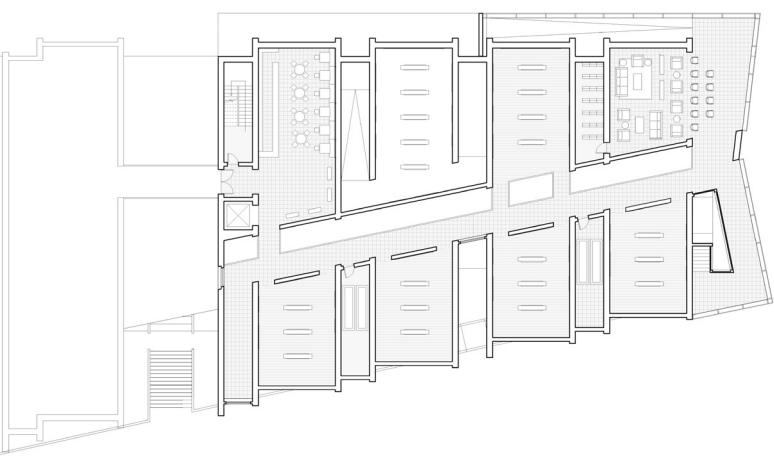
1st Floor Plan



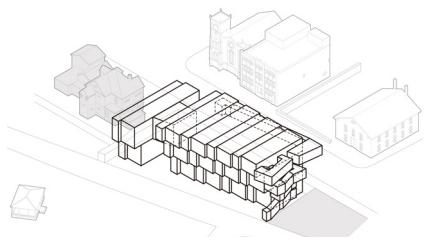
3. Shading for South Windows



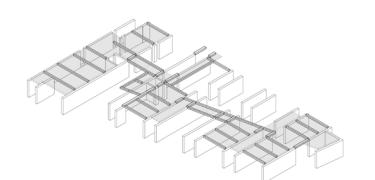
4th Floor Structure



4th Floor Plan



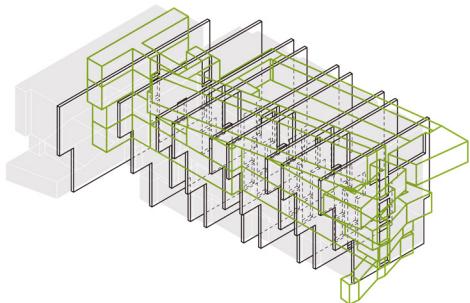
4. Contextual Scale Adjustment and Additional View Features



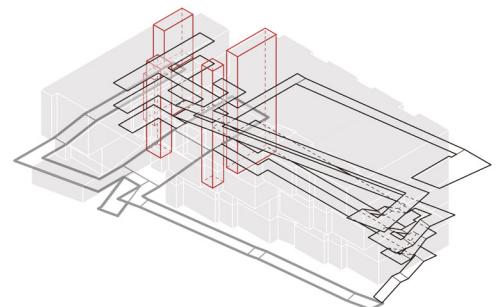
3rd Floor Structure



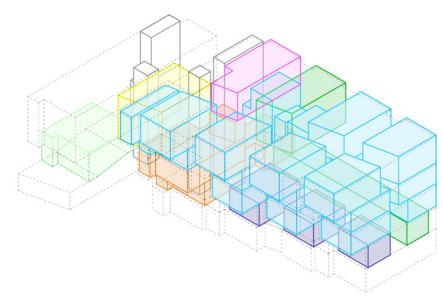
3rd Floor Plan



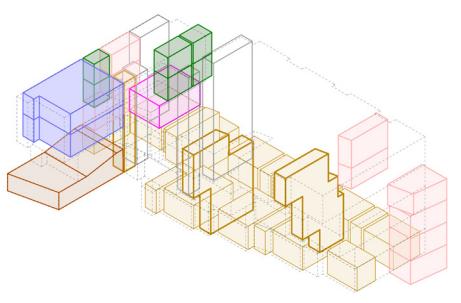
Structure and Spatial Experience



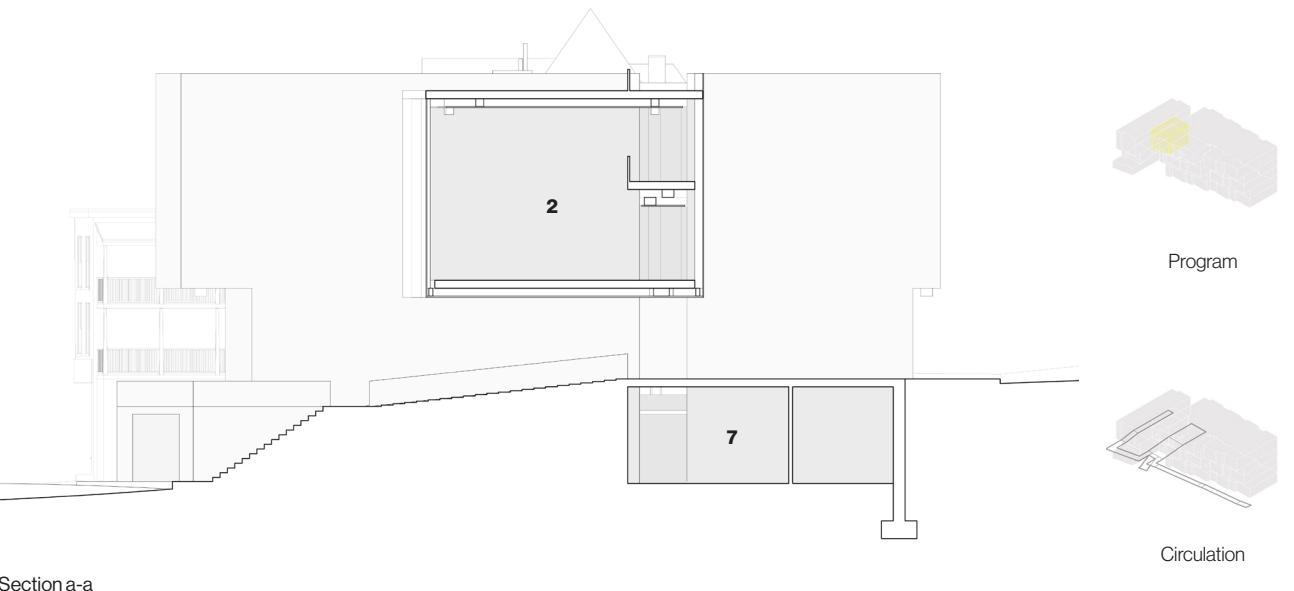
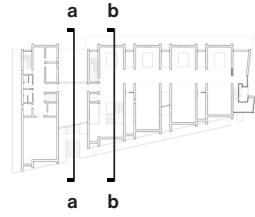
Circulation and Egress



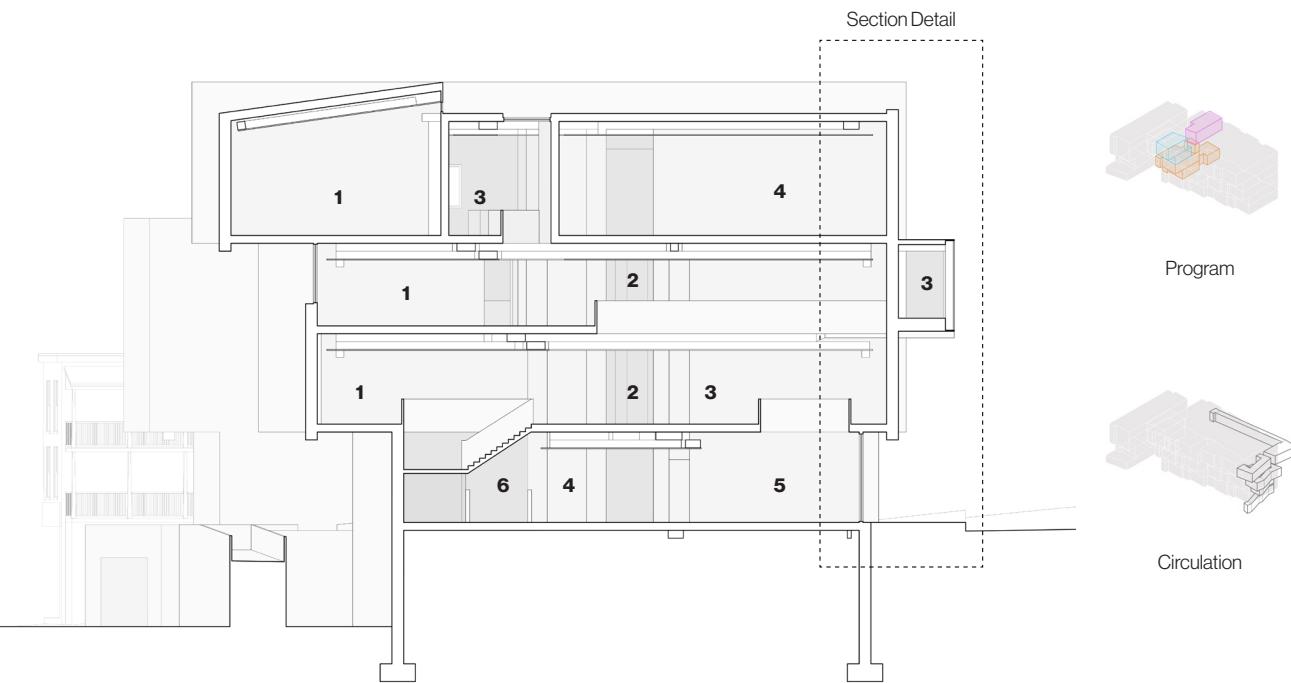
Museum Programs



Service Programs

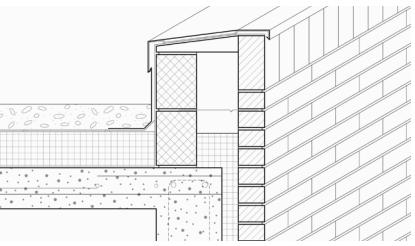


Section a-a

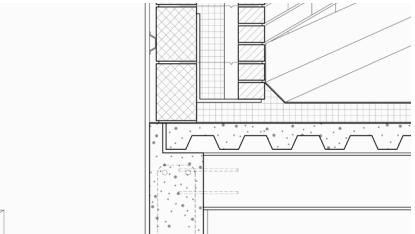


Section b-b

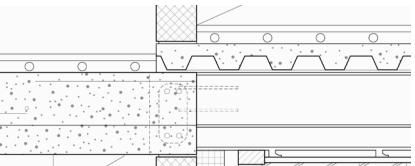
1. Permanent Gallery
2. Quilting Room
3. Walk Way
4. Lobby
5. Cafe
6. Guest Storage
7. Electric Room
8. Entrance



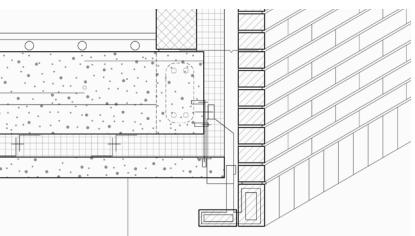
North Section Zoom-in No.1



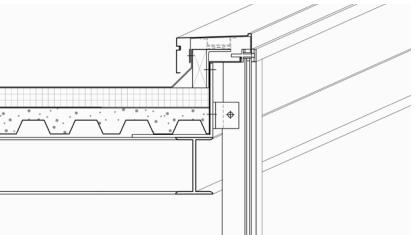
North Section Zoom-in No.2



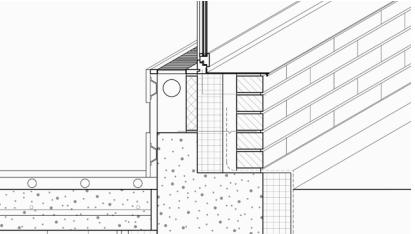
North Section Zoom-in No.3



North Section Zoom-in No.4

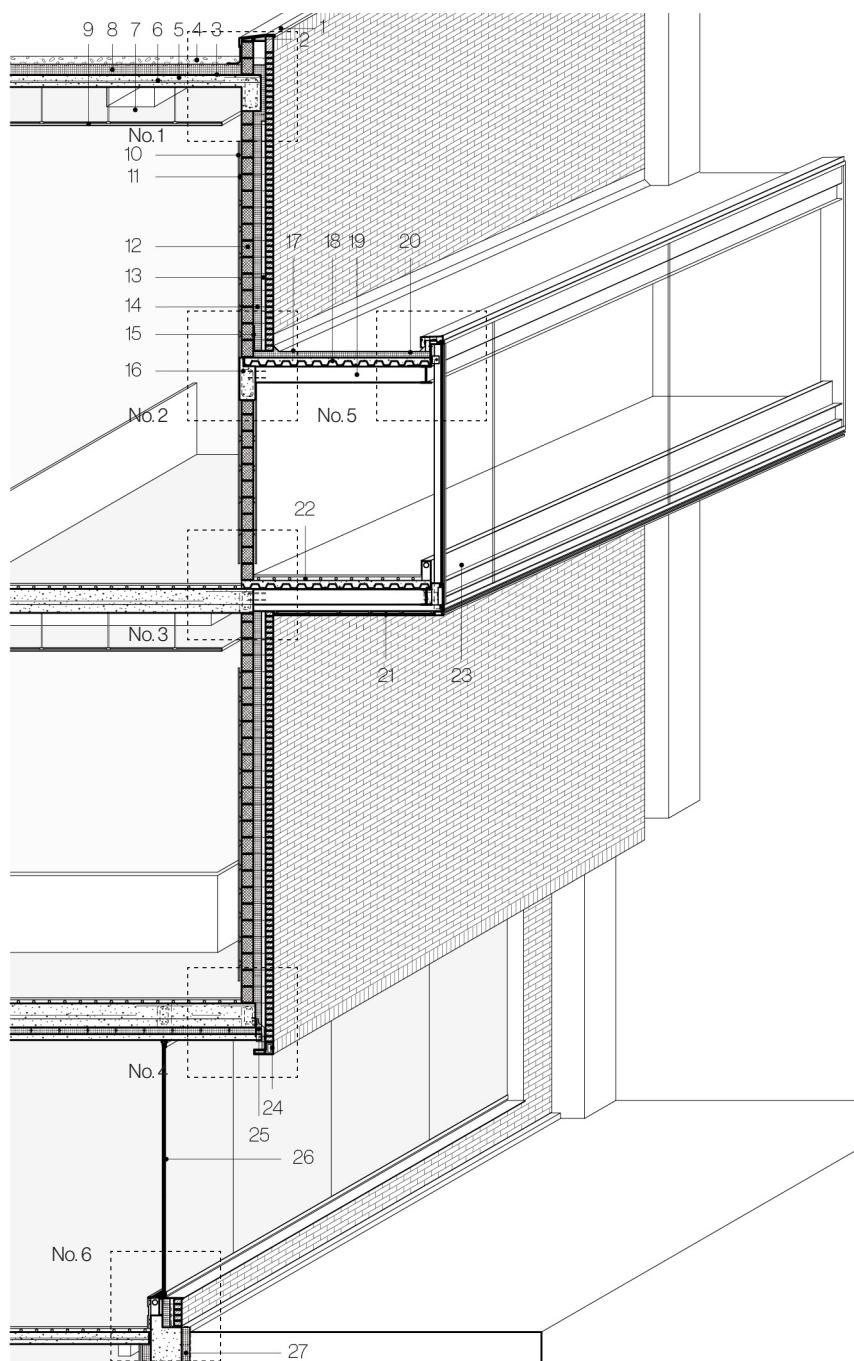


North Section Zoom-in No.5

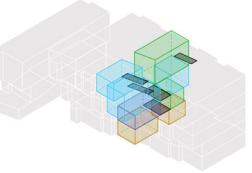
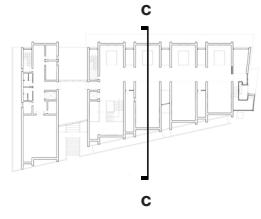


North Section Zoom-in No.6

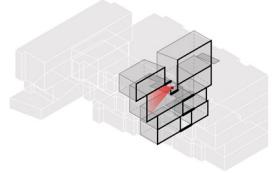
1. Sheet Metal Capping
2. Profile Timber Section
3. Diffusion-tight Membrane
4. Stone Chipping
5. Reinforced Concrete
6. Tension Reinforcement
7. HVAC Return Duct
8. Rigid Foam Insulation
9. Drop Ceiling
10. Gypsum Board
11. Metal Furring
12. CMU Brick
13. Cavity
14. Metal Wall Tiles
15. Steel Angle
16. Concrete Beam
17. Metal Capping
18. Metal Deck
19. IBeam
20. Diffusion-tight Membrane
21. Aluminium Composit
22. Soffit Panel
23. Hydronic Pipes
24. Hydronic Convector
25. Halfen FK4 Brickwork Support
26. Double Glazing
27. Rigid Foam Insulation



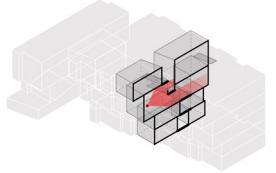
Section b-b North Facade Detail



Programs and Circulation

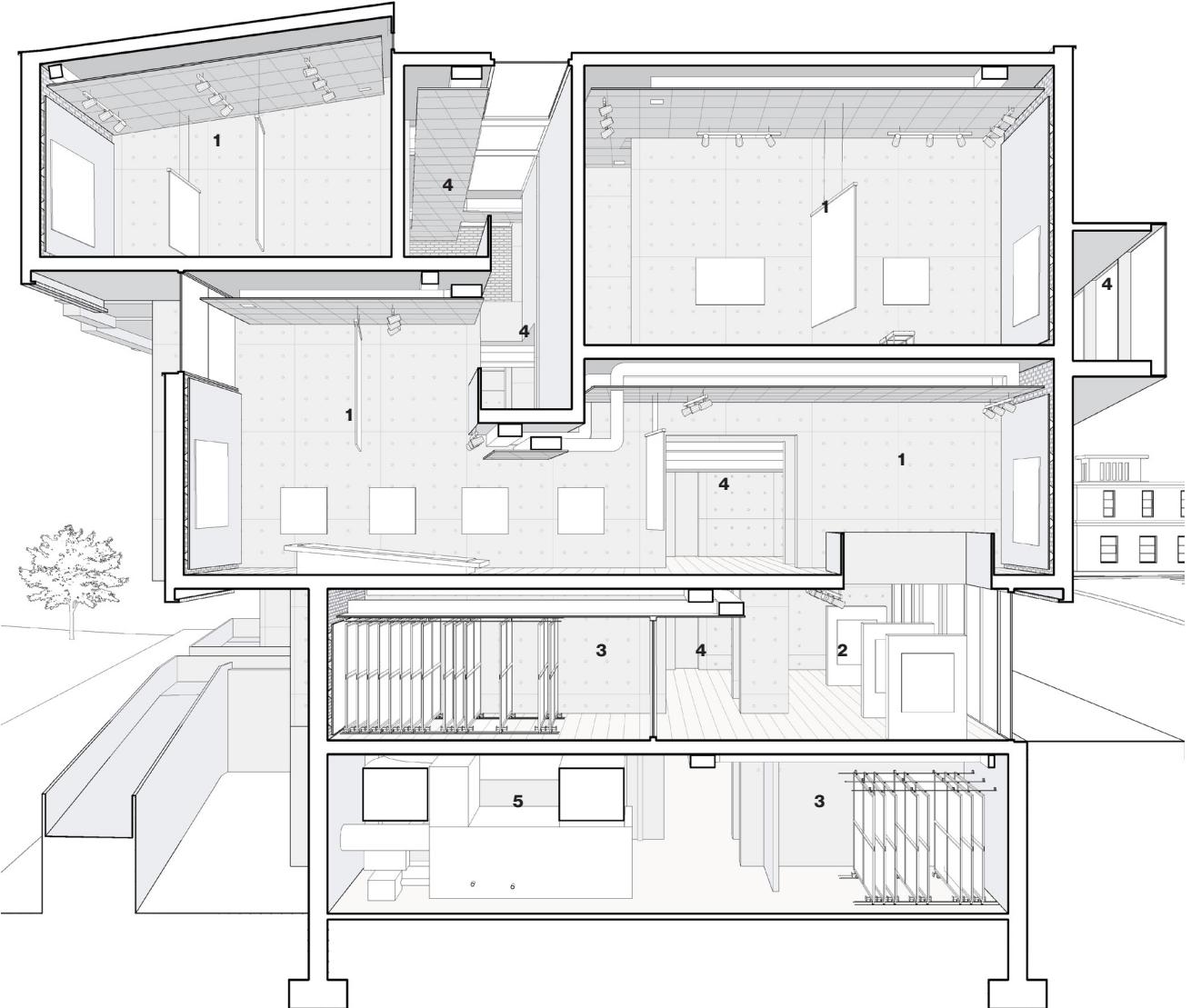


Gallery Perspective 1

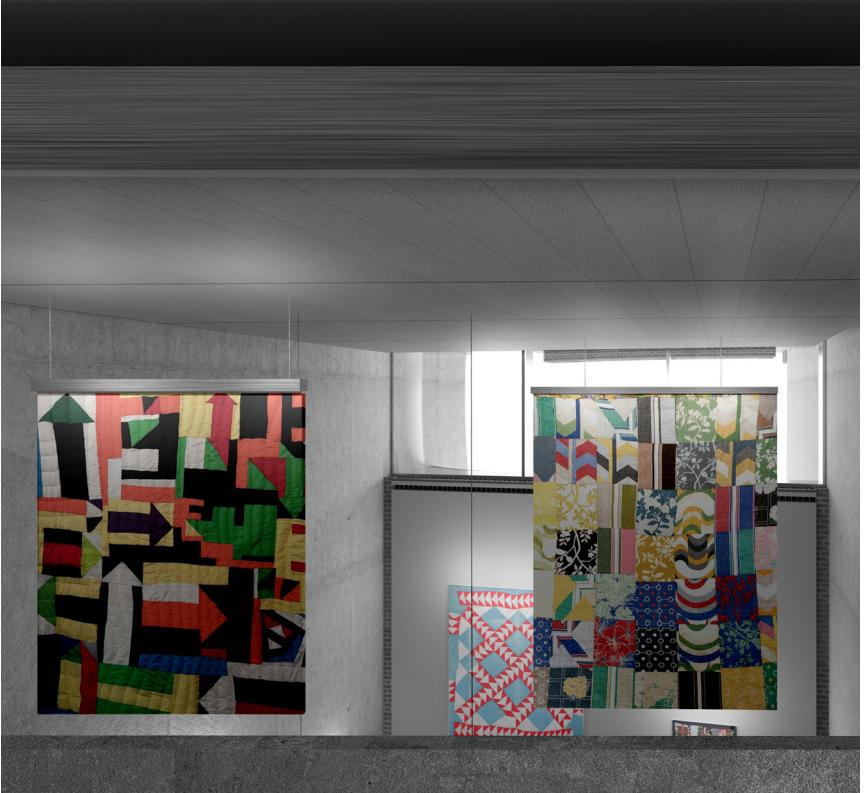


Gallery Perspective 2

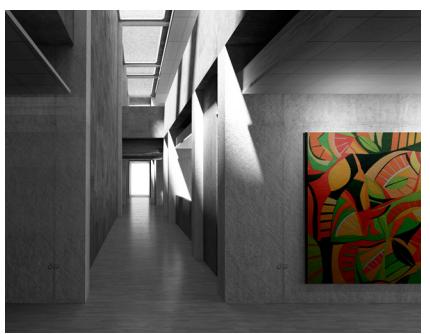
1. Permanent Gallery
2. Event Gallery
3. Archive
4. Walk Way
5. Facilities Room



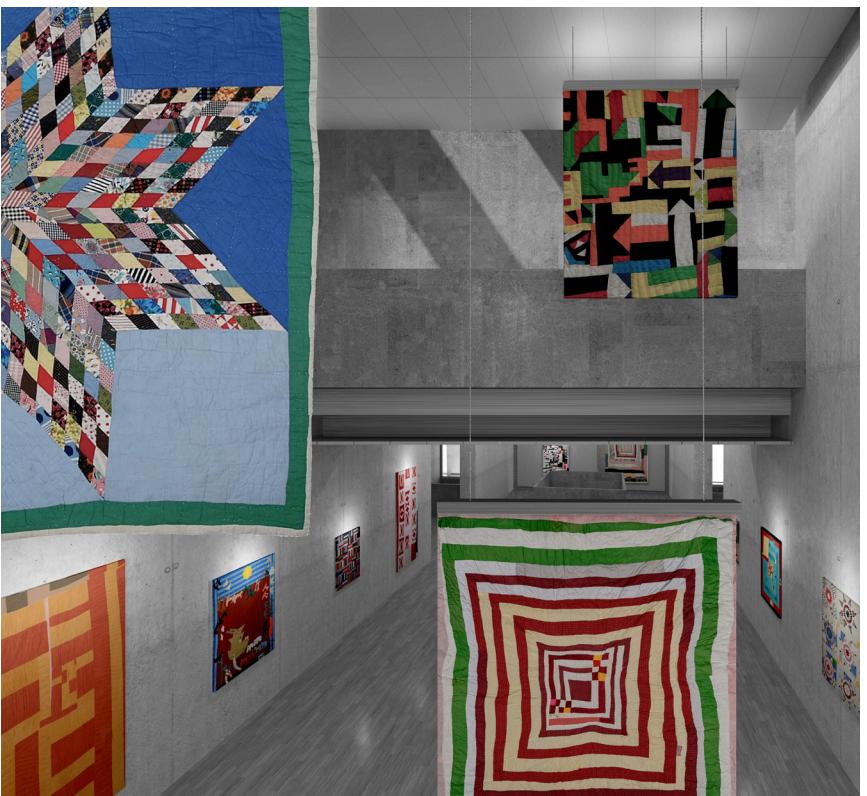
Section c-c



Gallery Perspective 1



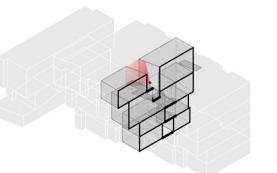
Walkway Perspective 2



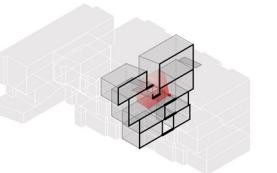
Gallery Perspective 2



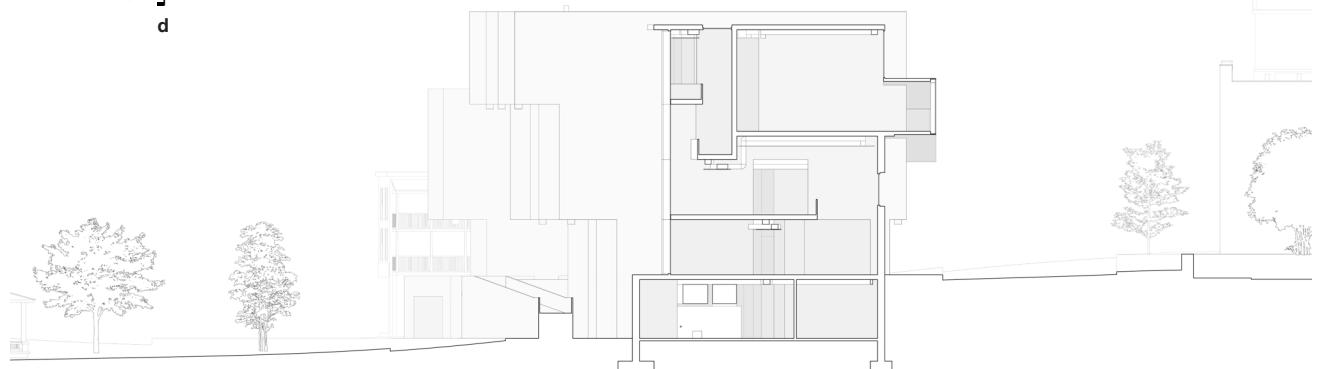
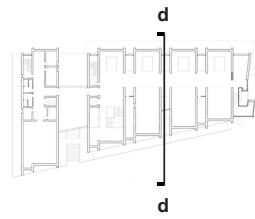
Walkway Perspective 2



Walkway Perspective 1



Walkway Perspective 2



Section d-d



East Facade Elevation



South Facade Elevation

Casa Migrante

Academic Fall 2023

Typology: Housing

Cornell University Gensler Visiting Critic Studio

Instructor: Adam Frampton, Emma Silverblatt

Location: Seneca Falls, New York, United States

Floor Area: 66,252 sf.

Designed in collaboration with Marcos Escamilla-Guerrero.

All drawings done by author unless otherwise indicated.

Reacting to the recent significant influx of migrant population in NYC, the urgency of housing becomes critical. Intended to bring back the historic housing typology of Single Residence Occupancy (or S.R.O hotels) that effectively houses a large number of urban population back in the 1950s, our project intends to explore the S.R.O typology's contemporary possibilities that integrates quality and dignified communal living space with urban greenery.

Surface Temp. Building Height Industrial Area Parks Site

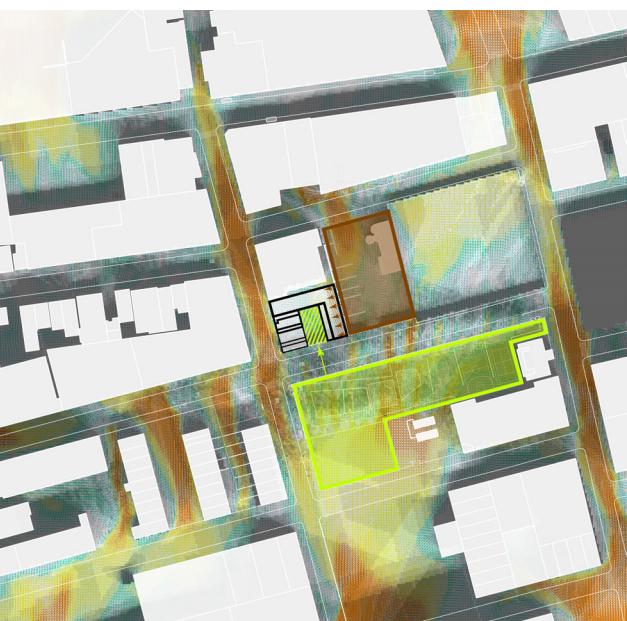


Urban Surface Temperature and Greenery of East Williamsberg, New York

Industrial Com. & Res. Mix-Use 1 & 2 Family Building Multi-Family Building Public Facility Com. & Office



Site Environment and Adjacency



Site Environment and Adjacency



Functional Separation



Integration of Housing and Industry



S.R.O Housing and Urban Greenery

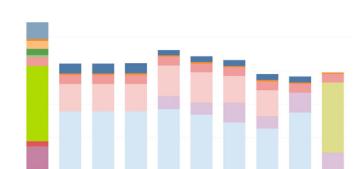


Integration of Migrant Population





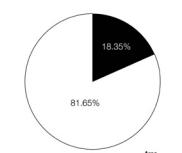
180 sqf 70 sqf
Private Living Space Shared Bathroom & Kitchen



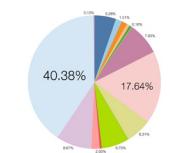
Program Proportions per Level



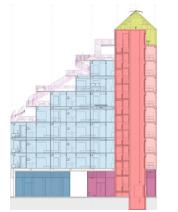
Fifth Floor Plan



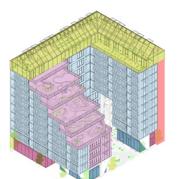
Rentable Percentage



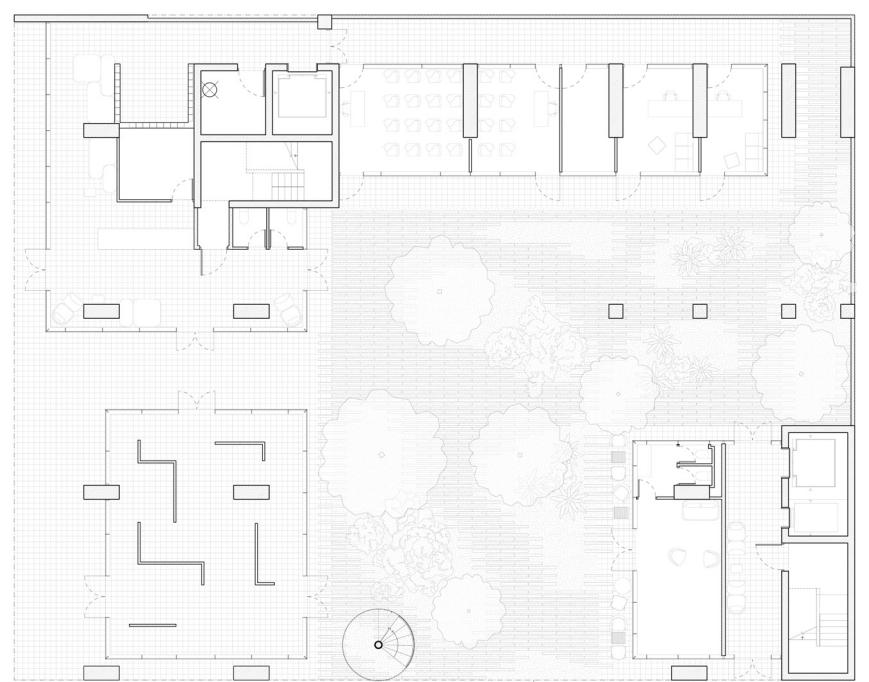
Program Percentage



Programs Distribution



Programs Distribution

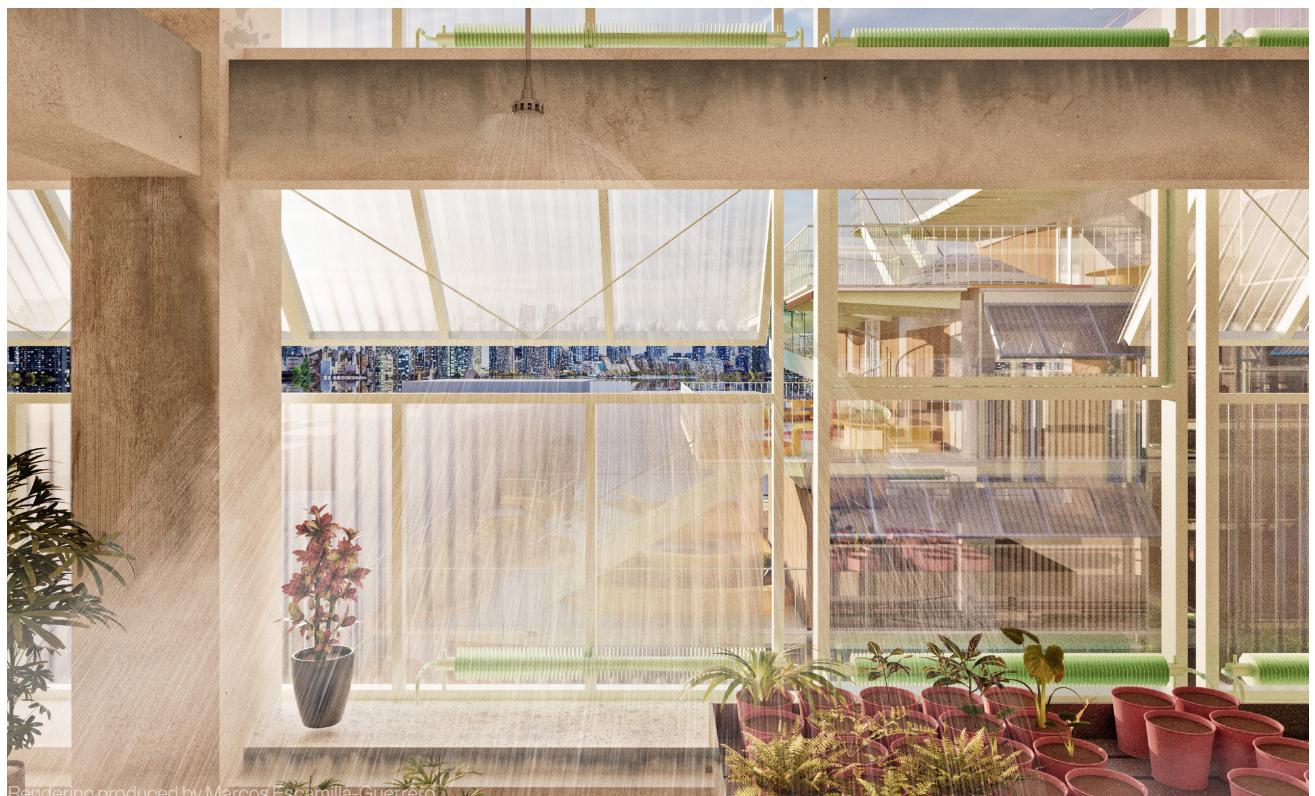


Ground Floor Plan



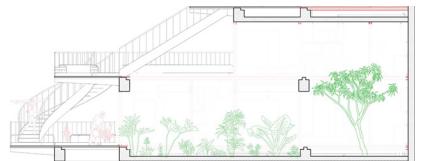
Rendering produced by Marcos Escamilla-Guerrero

Apartment Interior

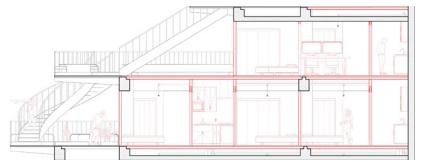


Rendering produced by Marcos Escamilla-Guerrero

Apartment Transformed into Green House



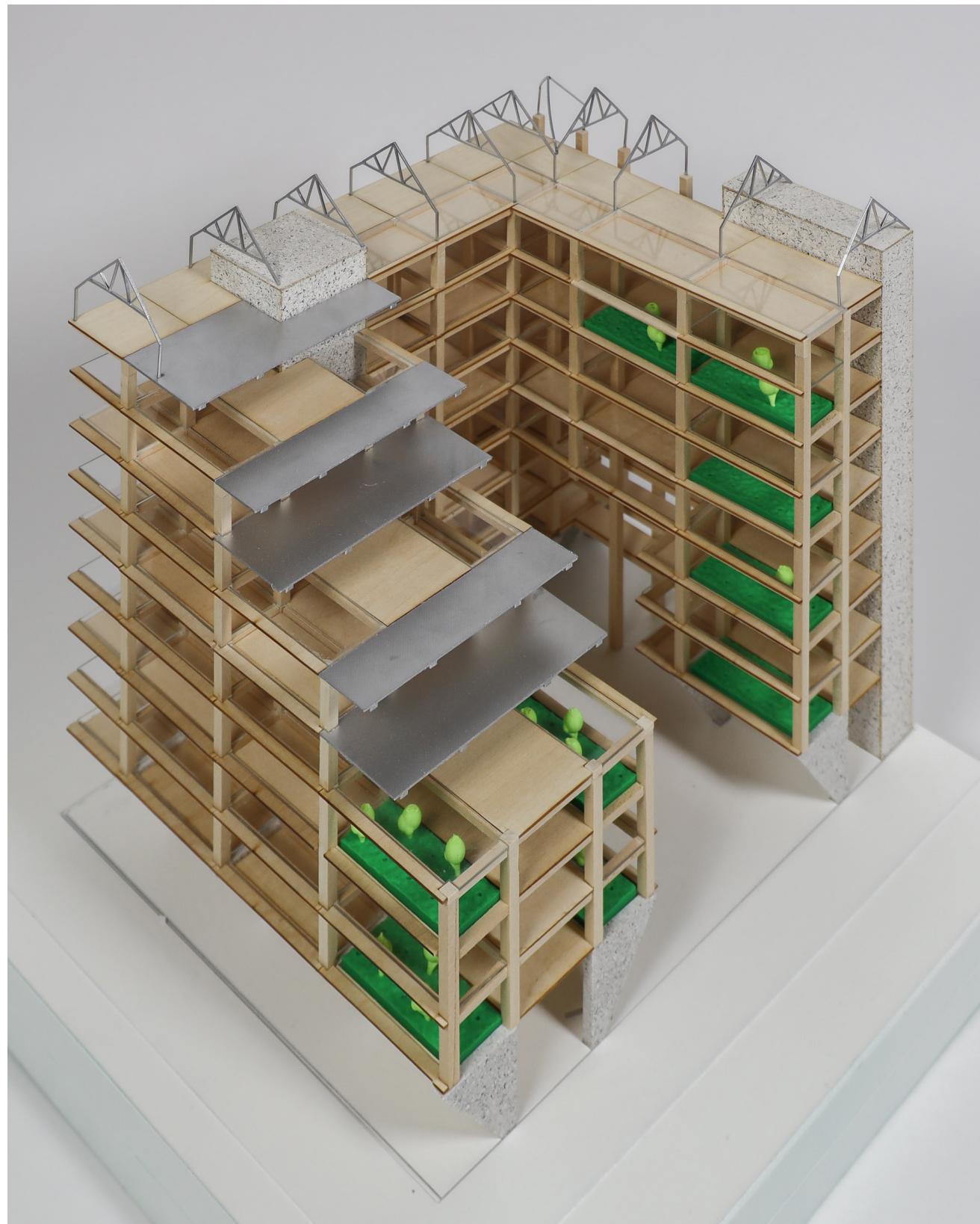
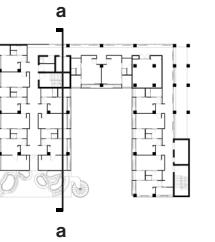
Removed CLT upper floor panel transforms the apartment units into double height plant nurseries.



The project incorporates double floor panels made of CLT (top) and pre-fab concrete panels (bottom) on every other level, and CLT panels on the remaining floors to achieve adaptability.



Section a-a

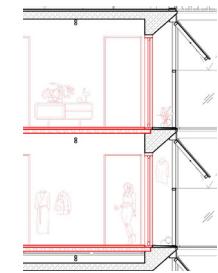


Structural Model



Rendering produced by Marcos Escamilla Cuervo

Double layered envelope system with operable polycarbonate panels.

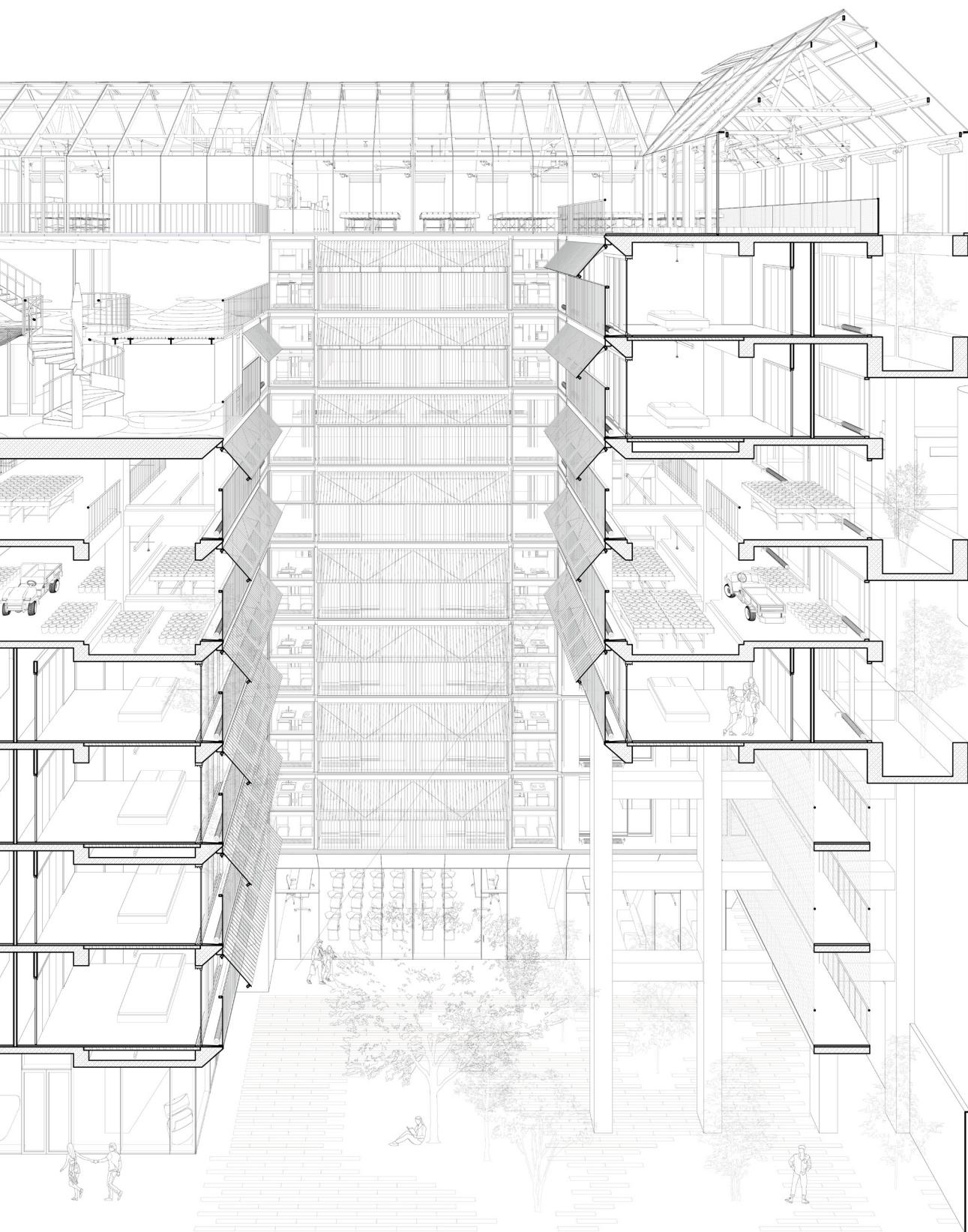
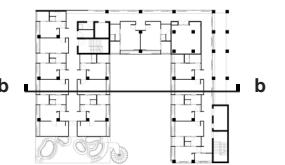


Double Facade in Section

This either produces a balcony for the residential units or a green house envelope when the inner facade is removed.



West Elevation



Section Perspective b-b

Rewriting Exurbia

Academic Summer 2021, Summer 2022

Typology: Housing

Syracuse University SOURCE Grant Research

Instructor: Lawrence Davis

Location: Willingboro, NJ

Area: 1,500 ~ 3,000 sf. per lot

Designed in collaboration with Chenhao Luo.

All drawings done by author unless otherwise indicated.

After the end of World War II, the United States and Canada experienced an upsurge in the production of small single family detached homes. The vast and systematic construction of 600 s.f to 1500 s.f. residential units on 1/4 to 1/3 acres sites was in response to pent up savings accumulated during the War mainly by the working class and a desire to acquire an established symbol of prestige, the suburban home.

Many of these developments are now in what many call a state of "decline" and disrepair, losing their value and experiencing the same social stress associated with the center city. Numerous postwar developments are also changing demographically. The infusion of new people with new values is changing the conventional metabolism of these communities. In many cases, new residents have different family structures, use the space of the site in multi-functional ways, celebrate shared events through rituals new to the exurban city. This suggests that conventional space of postwar exurbia comprised single family houses on private lots of land, needs to change.





Willingboro in Burlington County, New Jersey



Cape Cod



Colonial

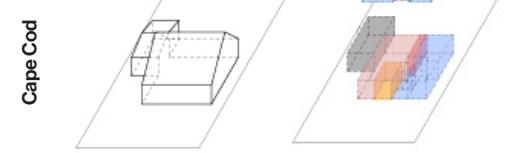


Rancher

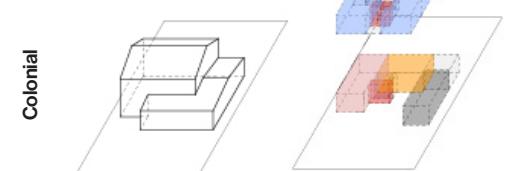


Lawn

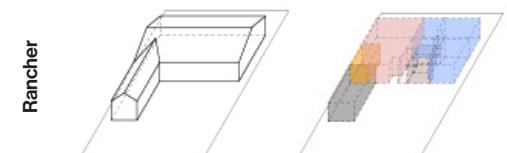
Yards



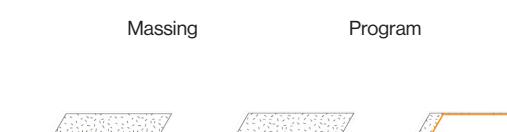
Cape Cod



Colonial

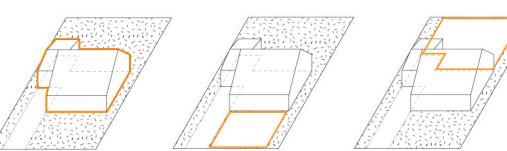


Rancher



Massing

Program



House

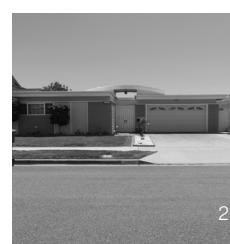
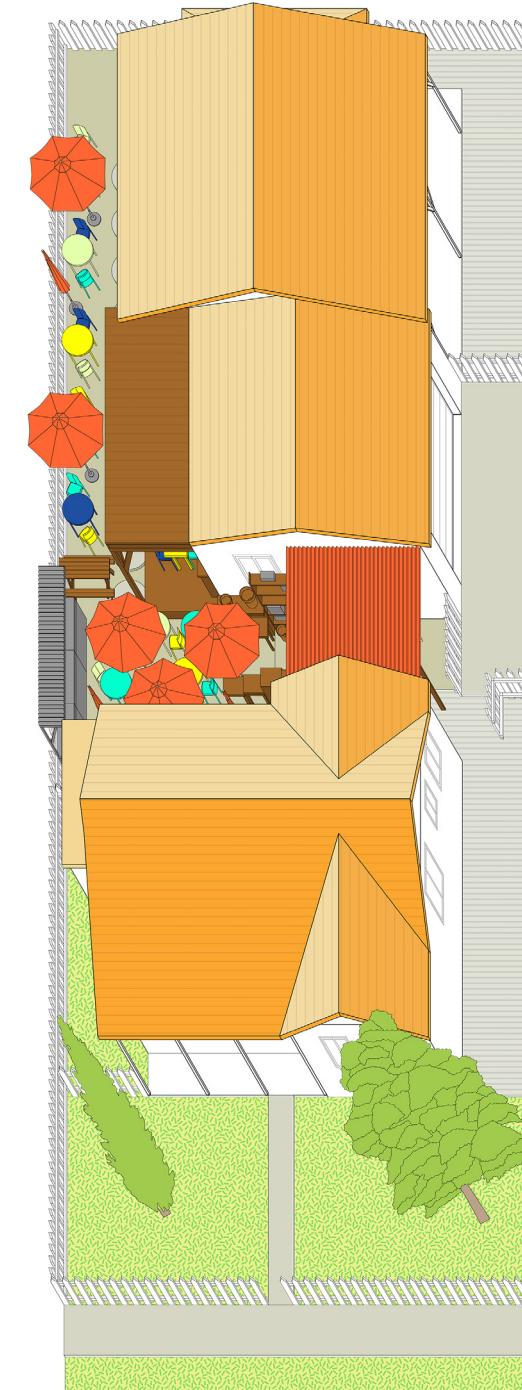
Front Yard

Backyard

The Levittown-type American suburb was the engineered visage of the perfect lifestyle of the post-war middle-class white Americans. The special typology of the detached single family house gave birth to the expansive park-like country driveways produced by the formal front lawns.

The site of intervention, town of Willingboro in Burlington County, New Jersey, was the third planned Levittown of the United States.

Resulted from the demographic change in the American Exurbia, physical transformations in the 1) house, 2) front yard, and 3) backyard has been observed.



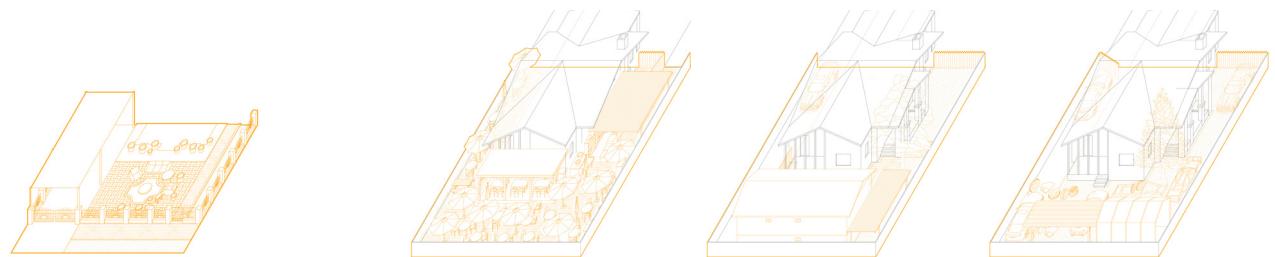
Household kitchen restaurant, Barra de Pan, is the most vivid example of backyard interventions. The Hispanic household in Westminster, CA, tries to generate supplemental revenue through operating an informal restaurant at their own backyard. This has infused the neighborhood with energy and joy, and hints transformative possibilities of the suburban typologies and zoning changes.

1 Vietnamese Roof

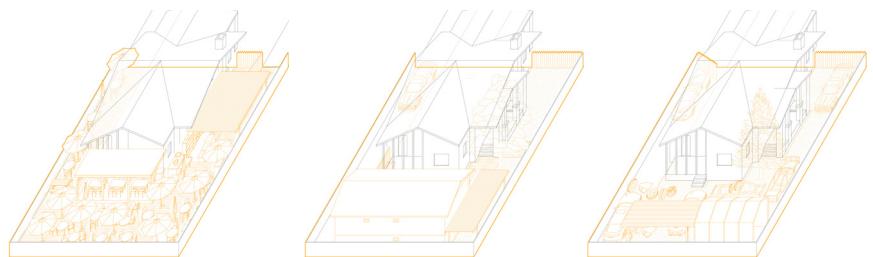
2 Chinese Courtyard

3 Front Yard Lawn

4 Backyard Canteen



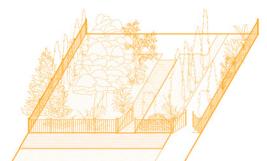
Front Yard Lounge



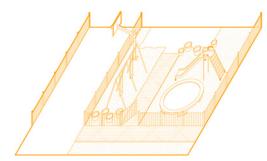
Back Yard Kitchen

Back Yard Extension

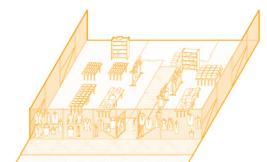
Back Yard Workshop



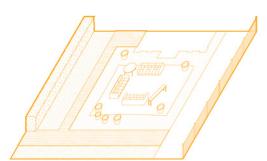
Front Yard Garden



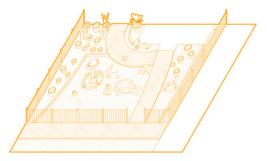
Front Yard Playground



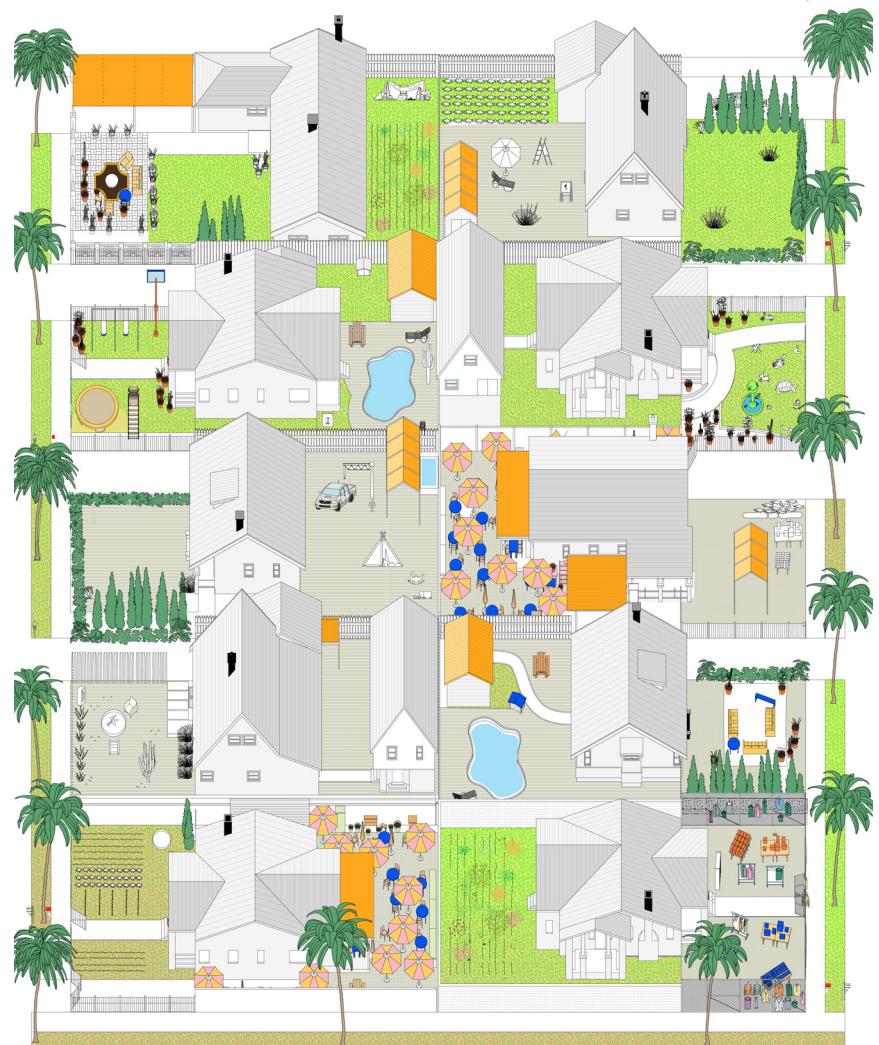
Front Yard Market



Front Yard Plaza



Front Yard Memorial

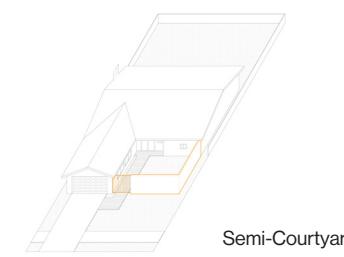


The Hispanic Park

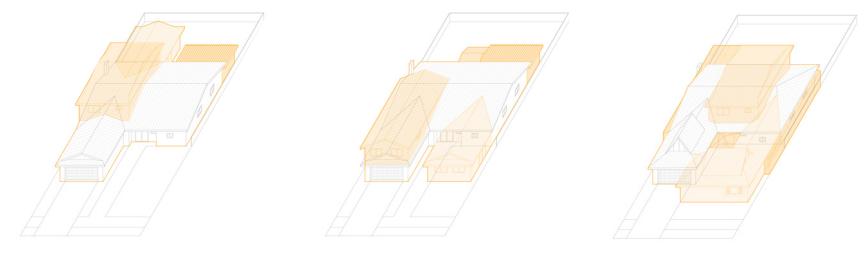
The Hispanic Park drawing is produced by Chenhao Luo.

Surveying the Neighborhoods of Westminster, California, where there is a dominant concentration of Asian and Hispanic populations, the typical landscape and image of the American suburb has greatly transformed. Front and backyards of the traditional levittown typology became increasingly programed and ground surfaces hardened.

As an analytical study of such transformations, documentational drawings of different examples of transformation are recorded, featuring a variety of functions such as retail, recreation, and social gathering. Eventually, an imaginary landscape *Hispanic Park* is produced to illustrate the new image of the Exurbia.



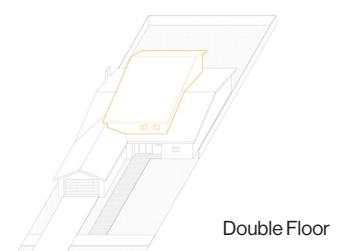
Semi-Courtyard



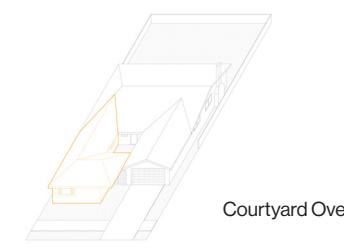
House-in-Garden Addition

Semi-Courtyard Addition

Full Courtyard Addition



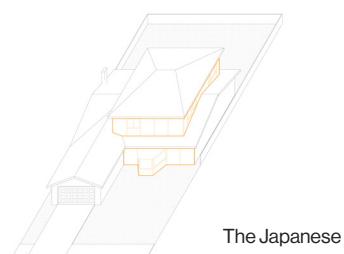
Double Floor



Courtyard Overlook



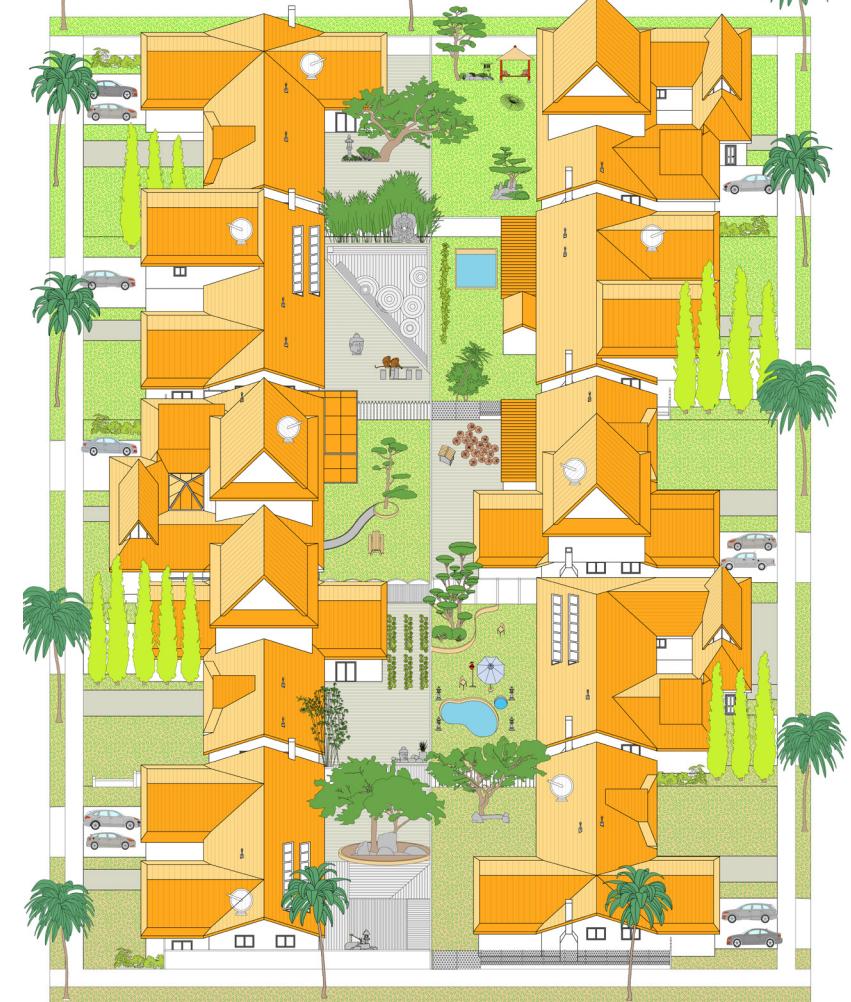
The Vietnam Roof



The Japanese Facade



The Iconic Gate



The Asian Park drawing is produced by Chenhao Luo.

The Asian Park

Similar to the great changes in the resident's appropriation of the lawns of the Hispanic communities, the Asian neighborhood was also completely transformed, sometimes to a degree that completely eradicates the traces of American neighborhoods.

Without much special treatment to the ground surfaces of the lots, the Asian community modifies the form of the house itself, where different types of additions are built to either privatise more formal lawns in the classic levittown typology or to simply expand for housing extended families. Similarly, the different variations of the additions are collectively organized into the imaginary landscape of the *Asian Park*.

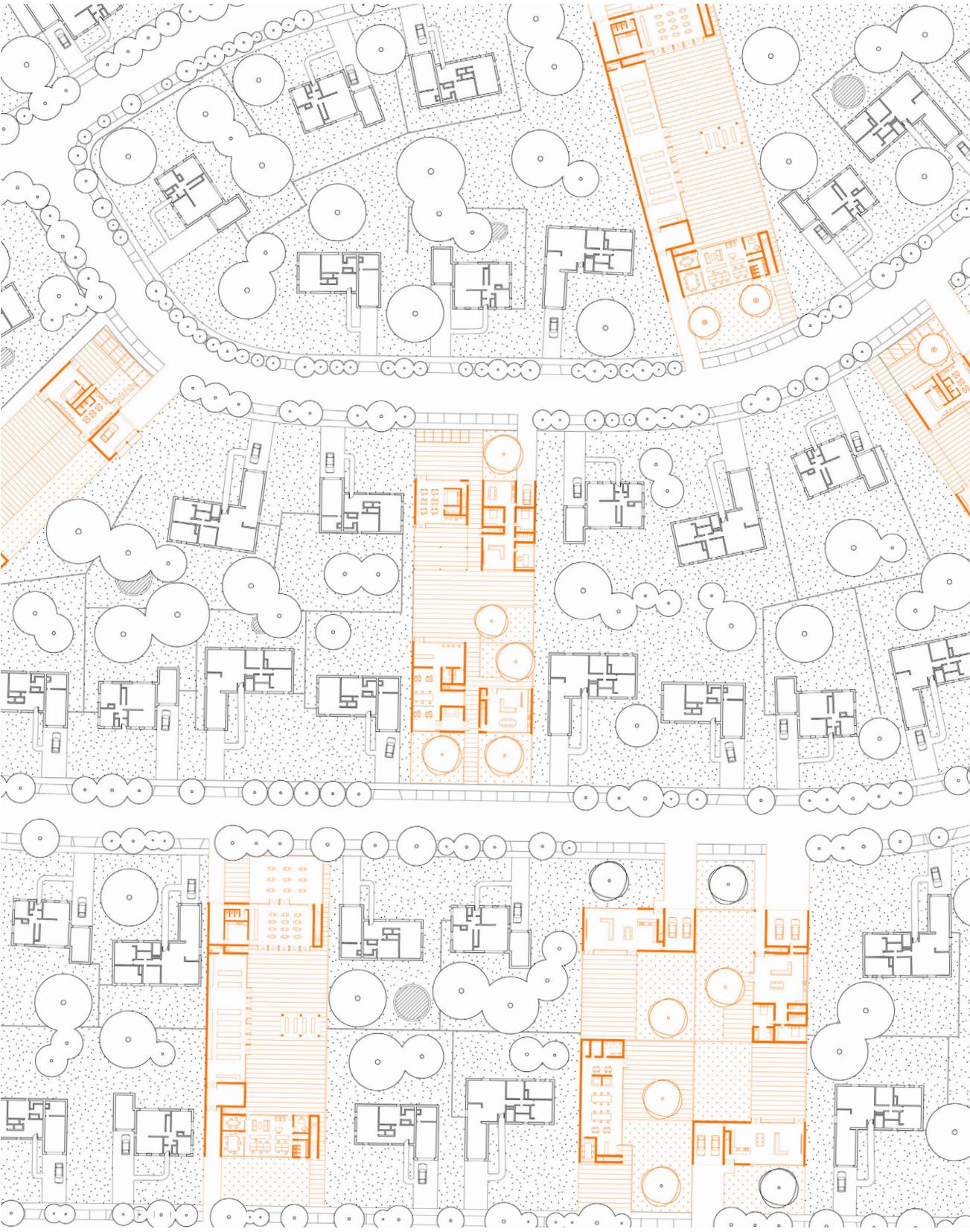
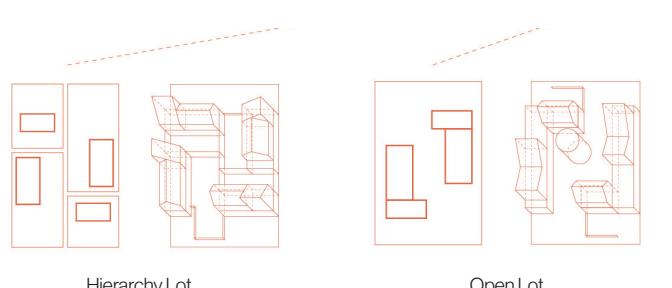
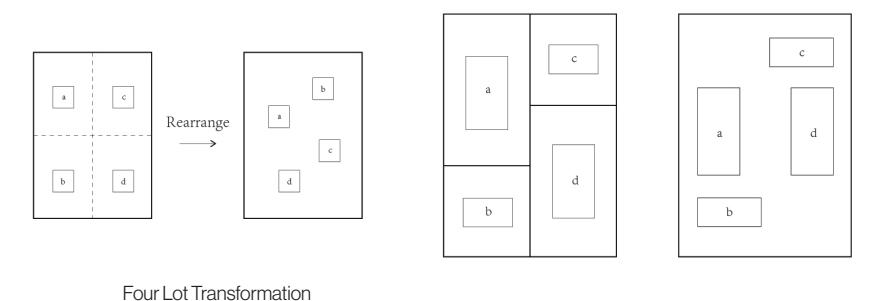
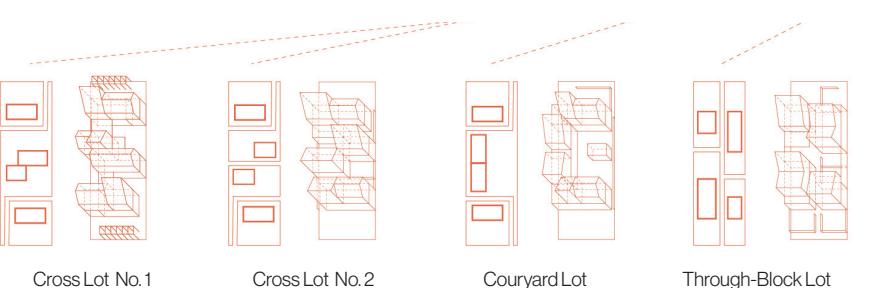
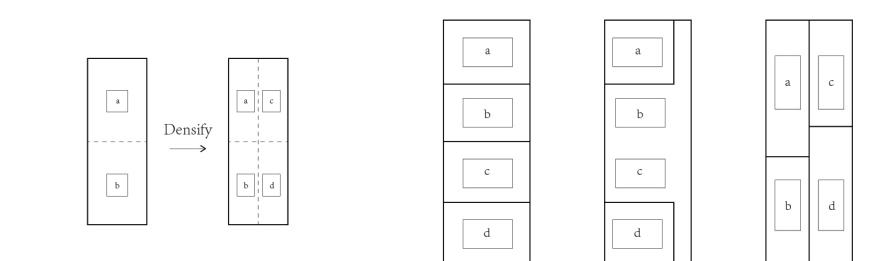


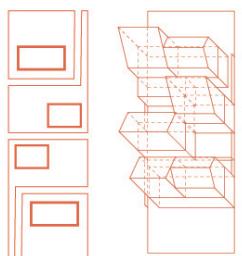
Selected Lot For Transformation

Design lessons from the vernacular analysis of the Los Angeles residential lots provides the basis for the new design.

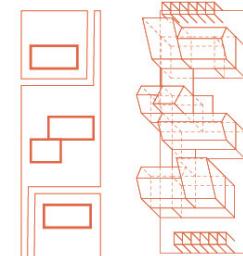
The six redesigned lot moduels intend to urbanise and diversify the original undifferentiated and stagnant conditions.

The major approaches are to densifying and rearranging the classic lot organizations, programmatic compositions, and private and public relationships to produce more public space, community functions, and increased opportunities of neighborly contact.

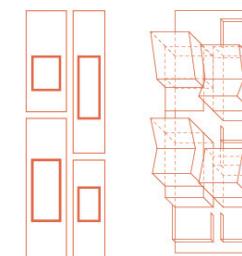




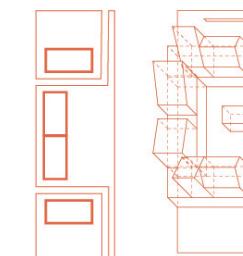
Cross Lot No. 1



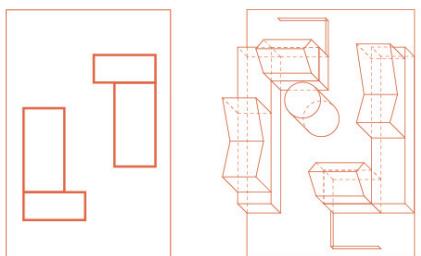
Cross Lot No. 2



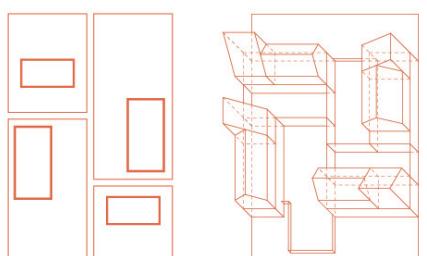
Through-Block Lot



Courtyard Lot



Open Lot



Hierarchy Lot

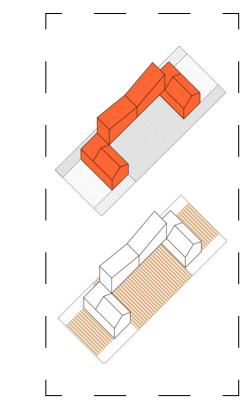
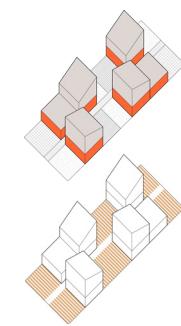
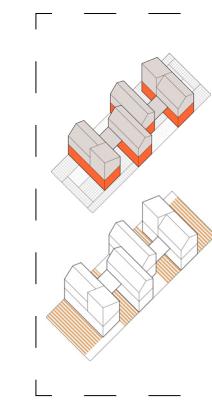
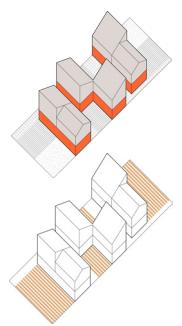
■ Public Programs ■ Private Programs

■ Soft Ground ■ Hard Ground

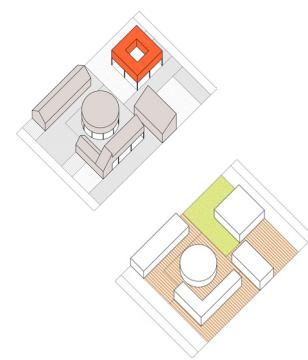
■ Public Programs ■ Private Programs

■ Soft Ground ■ Hard Ground

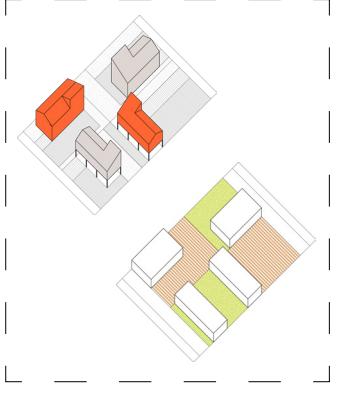
Public Ground Plane



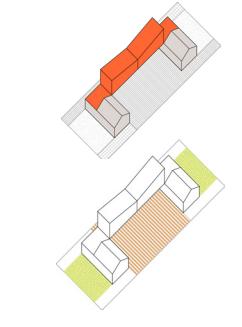
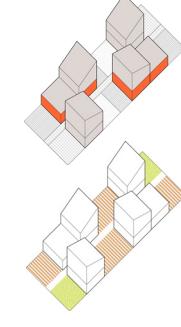
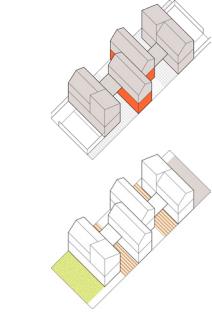
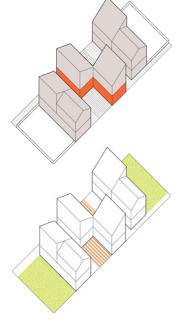
Corner Plaza



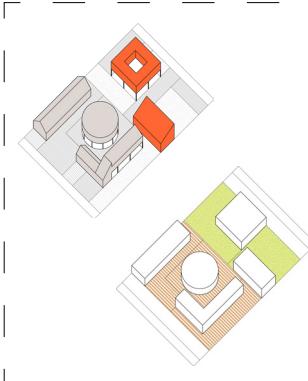
Zig-zag Plaza



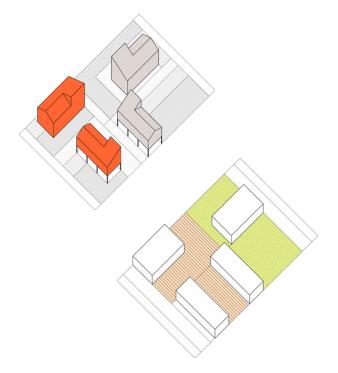
In-Lot Plaza



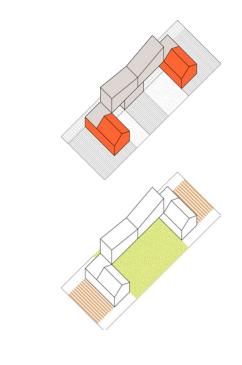
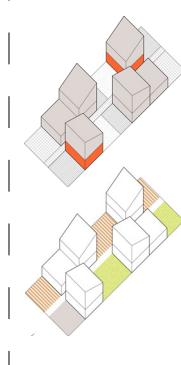
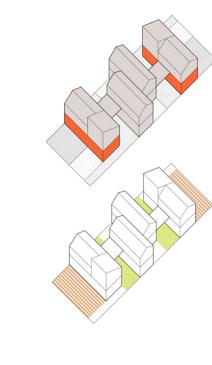
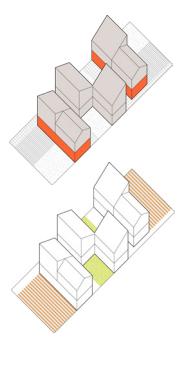
On-Sided Plaza



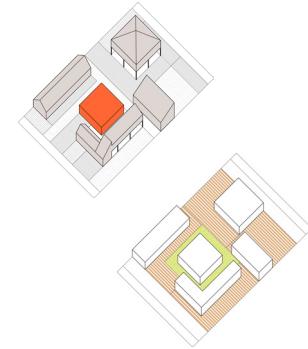
One-Sided Plaza



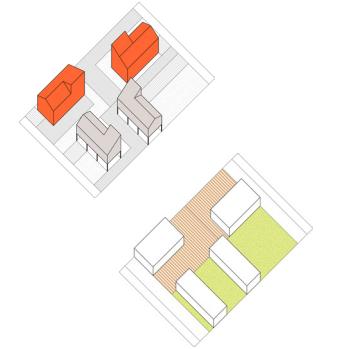
Road Side Plaza



Garden in the Plaza

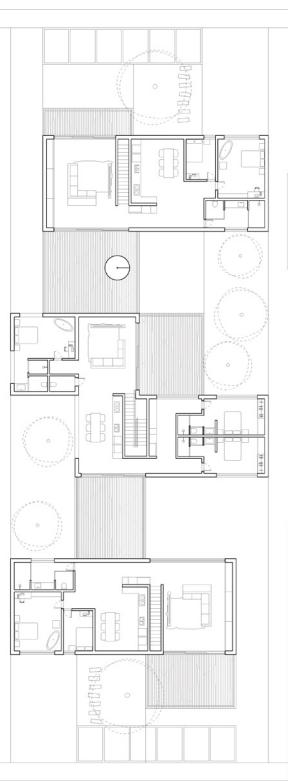


Through-Block Plaza

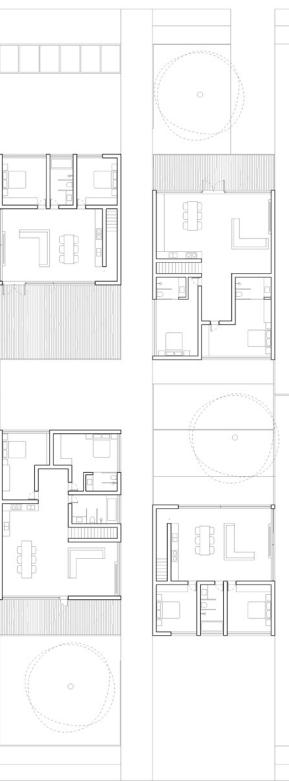




Cross Lot No. 1 Second Floor



Cross Lot No. 2 Second Floor



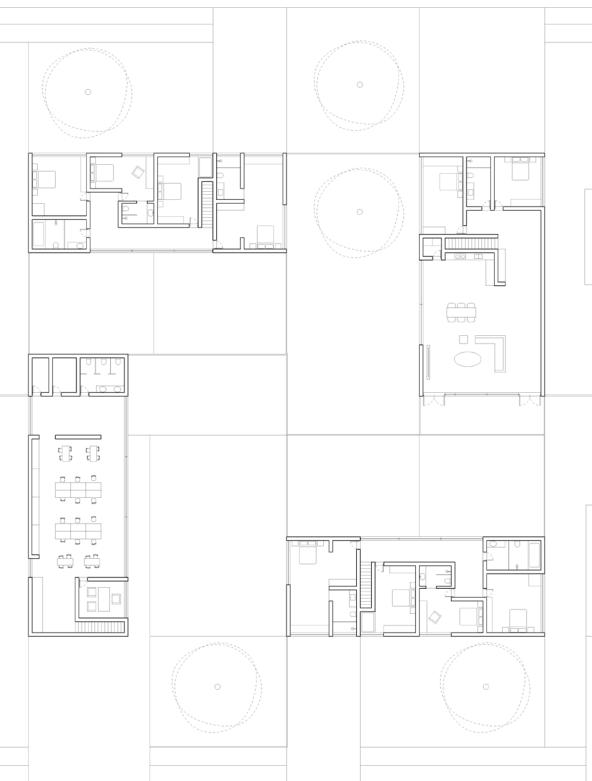
Through-Block Lot Second Floor



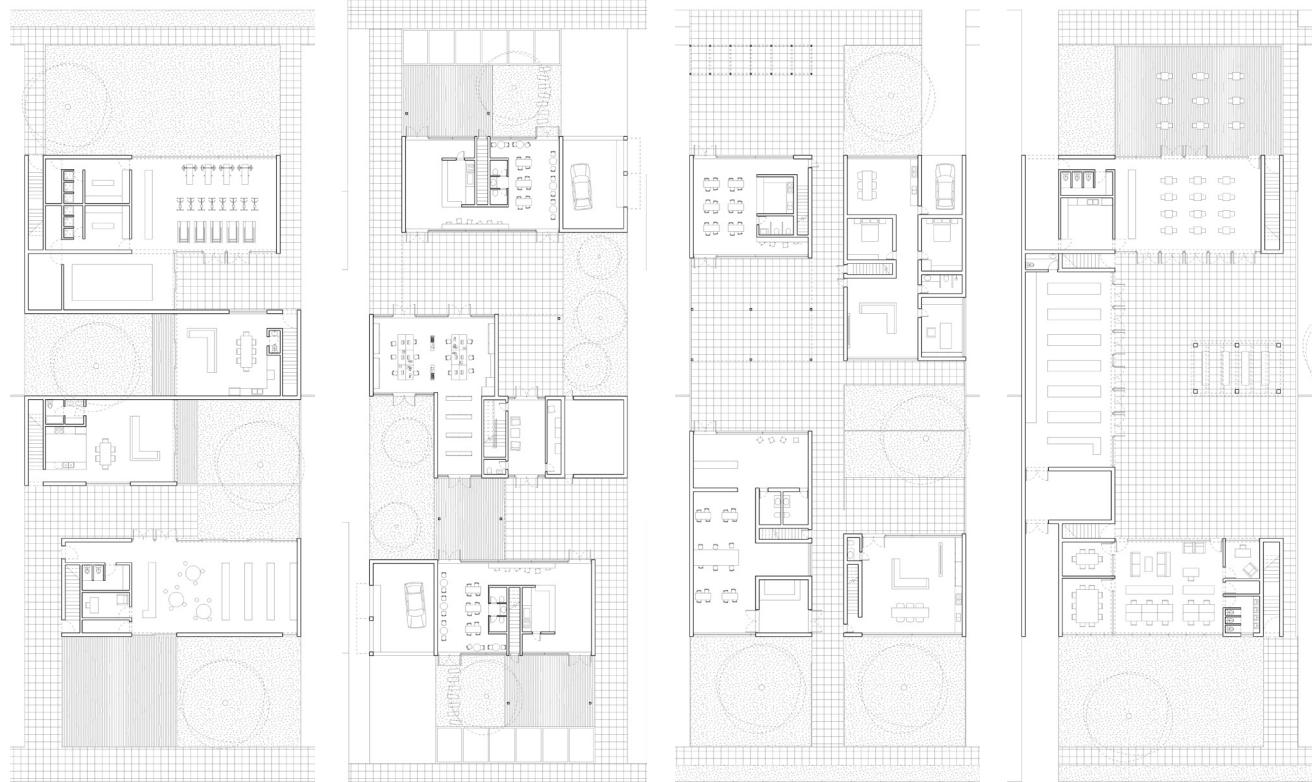
Courtyard Lot Second Floor



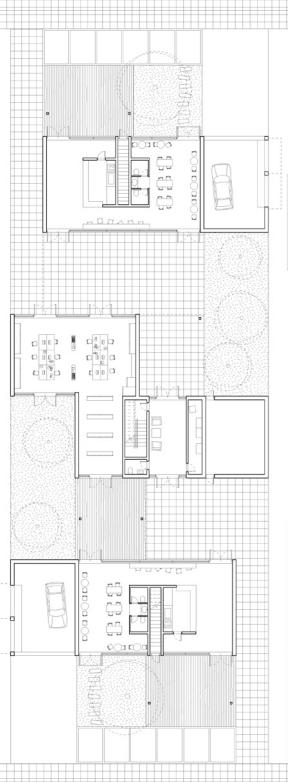
Open Lot Second Floor



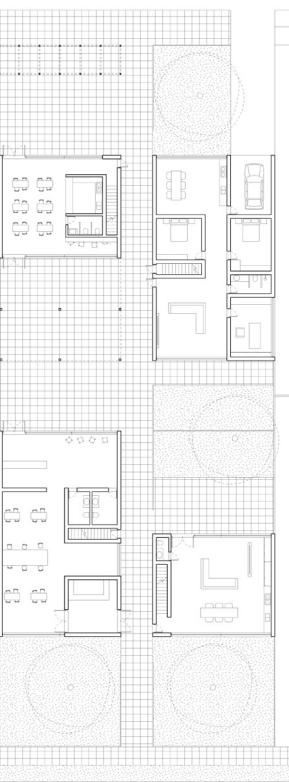
Hierarchy Lot Second Floor



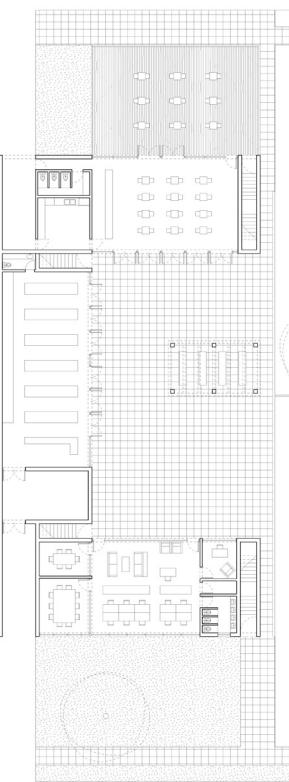
Cross Lot No. 1 Ground Floor



Cross Lot No. 2 Ground Floor



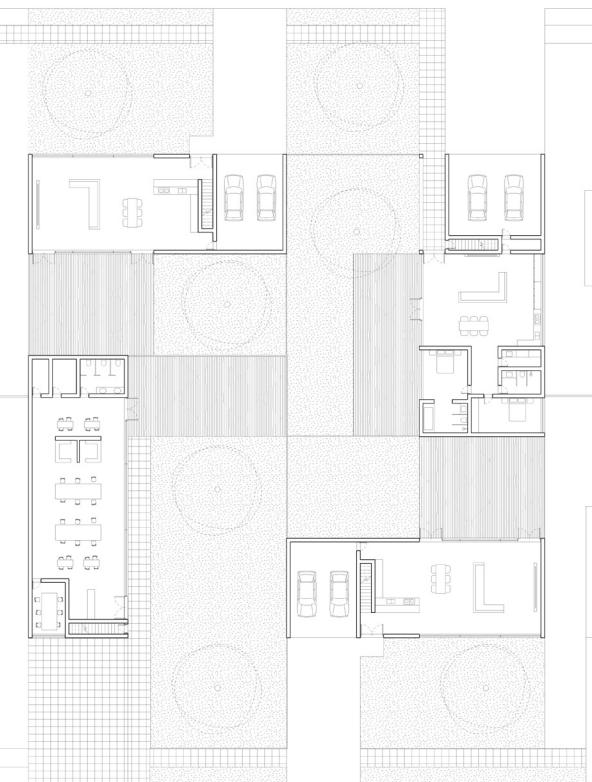
Through-Block Lot Ground Floor



Courtyard Lot Ground Floor



Open Lot Ground Floor



Hierarchy Lot Ground Floor



Cross Lot No. 1 Axon

Cross Lot No. 2 Axon

Through-Block Lot Axon

Courtyard Lot Axon

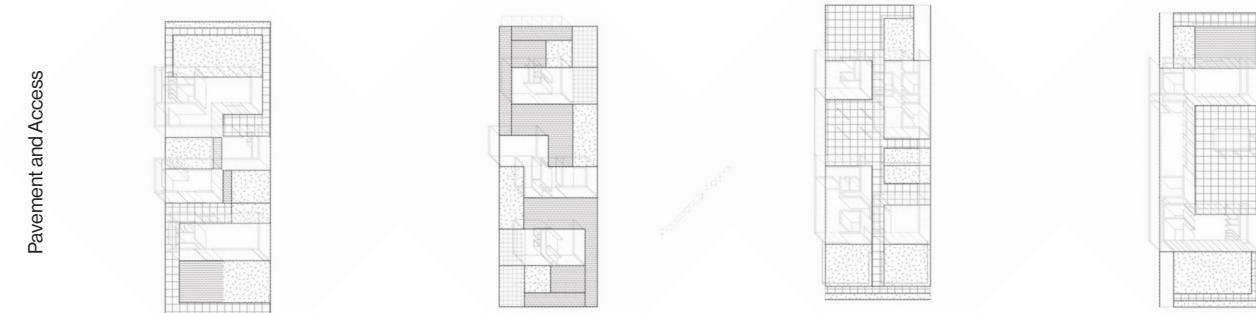


Open Lot Axon

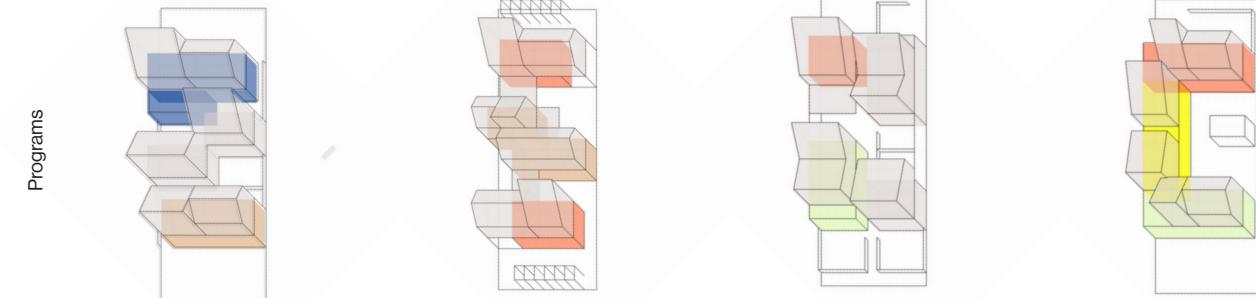
Hierarchy Lot Axon

Gym Restaurant Cafe Day Care Market Residential

Barbershop Stone Pavement Grass Wood Deck



Pavement and Access



Programs



Pigeon Cage Office

Academic Spring 2021

Typology: Architecture Representation / Office

Syracuse University Beijing Visiting Critic Studio

Instructor: Li Han, Hu Yan

Location: Beijing, China

Design and model produced in collaboration with Yiqun Feng.

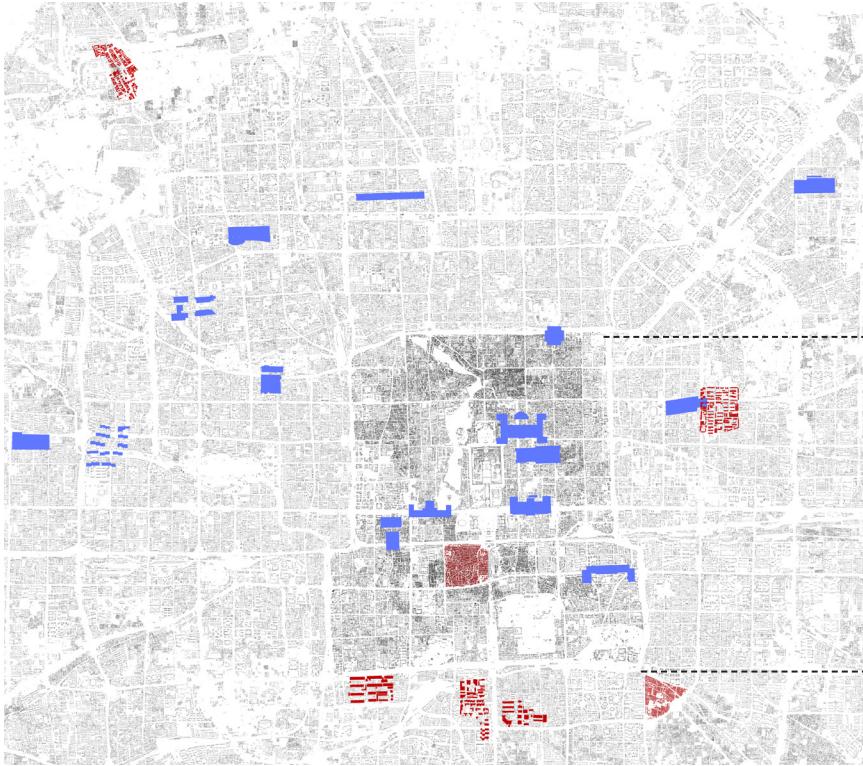
All drawings done by author.

The entire drawing "The Complete Map of Beijing" is done in collaboration with all 16 students in the studio.

The Complete Map of Capital Beijing is a 1:100 architectural diorama with the carefully composed drawings and the production of the three-dimensional models generating architectural languages through the techniques of copying that attempts to conceptualize the physical characteristics of the city of Beijing.

This studio pays special attention to Beijing's vernacular structures of the anti-theft windows, extended baywindows and balcony enclosure that rebel against the congested cityscape and surveys the areas with the most diverse vernacular constructions such as hutong and the old gated communities. The drawings and models intend to create an analogy of Beijing's architecture of different temporalities and social classes while at the same time explore the depth of history by the layered physical constructions. Finally, the drawings retrace and replicates the most distinctive architectural characters, ambience, and charisma of the capital of China.





Urban fabric of Beijing highlighted with selected architectures and urban areas



- 1. The Original "Complete Map of Beijing" (1744)
- 2. Accurate plan of Beijing from the Qing dynasty (1750)
- a. Slabbed Gated Communities
- b. Towered Gated Communities
- c. Urban Villages
- d. Hutong



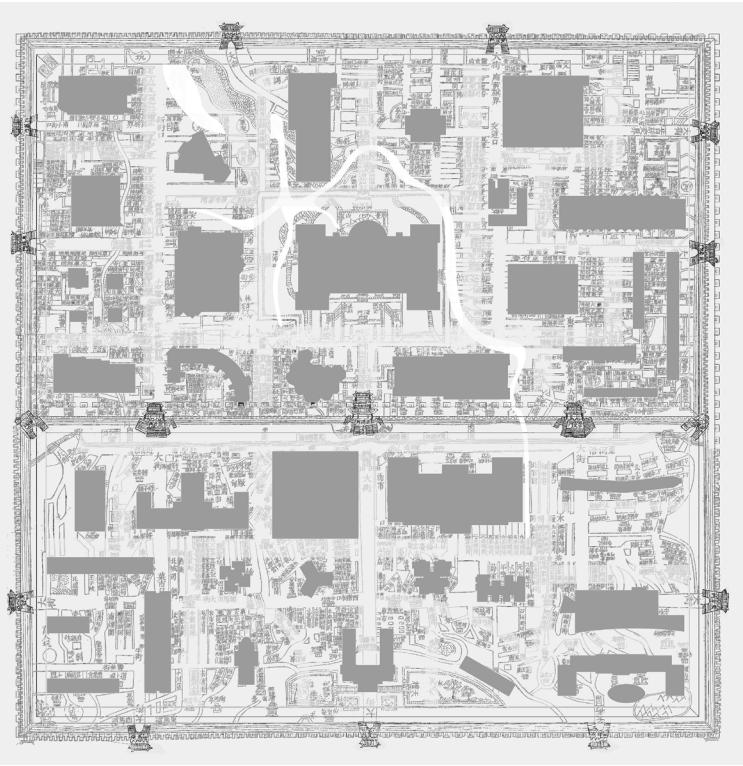
- 1. Red-brick Art Gallery, 2014
- 2. EPark Collaborative Office, 2014
- 3. Xiyuan Hotel, 1984
- 4. Beijing Hotel, 1990
- 5. UCCA At Center, 2007
- 6. Foreign Language Teaching and Research Press, 1979
- 7. OSGH Cinemas, 2014
- 8. National Art Museum of China, 1962
- 9. Dinghui Xili Building no.1, 1990
- 10. Anglican Church of China, 1979
- 11. Beijing Capital Theater, 1956
- 12. Beijing Haidian Civil Affairs Bureau, 1999
- 13. The Anhua Building, 1960
- 14. YongHeGong Lama Temple Falun Hall, 1694-2015
- 15. Telegraph Building, 1953
- 16. Beijing Jidianyuan Corporation, 1907



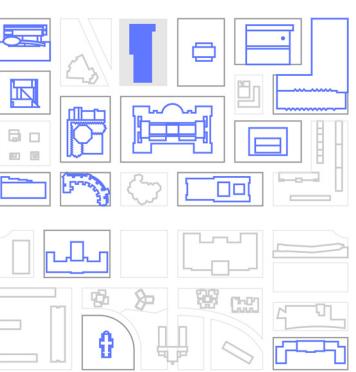
1



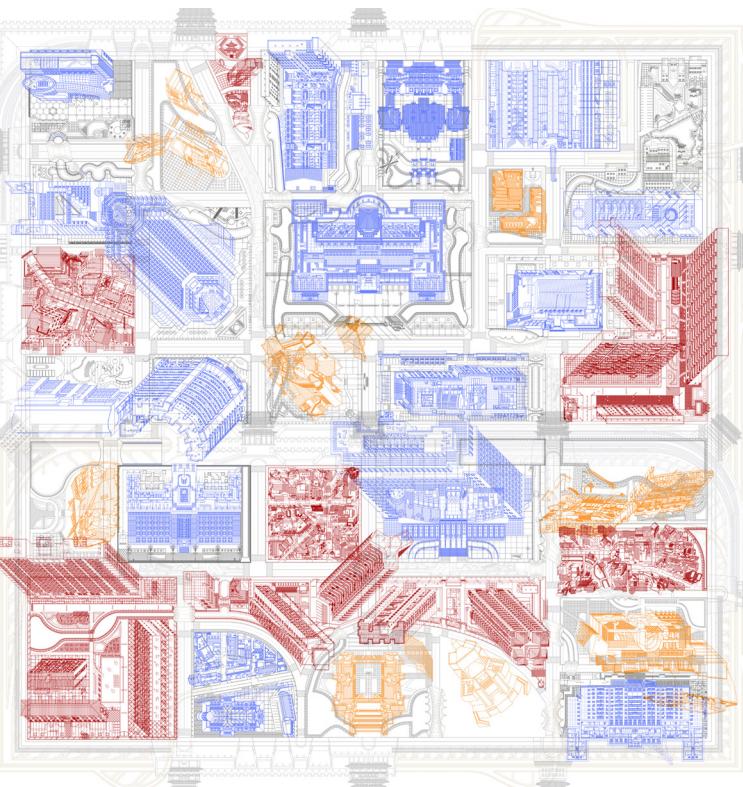
2



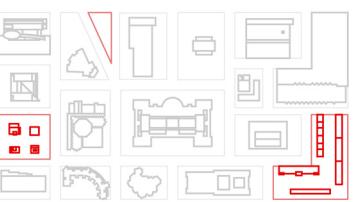
"The Complete Map of Beijing" with new spatial imagination



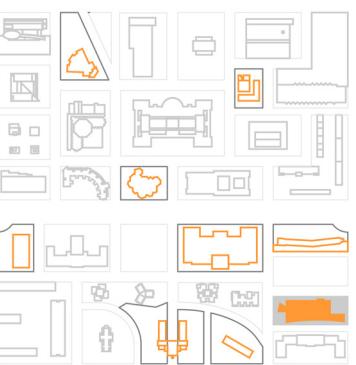
- Sixteen **iconic architectures** highlighted in blue singles out the architectures during the movements of Beijing's modern constructions of the twentieth century.



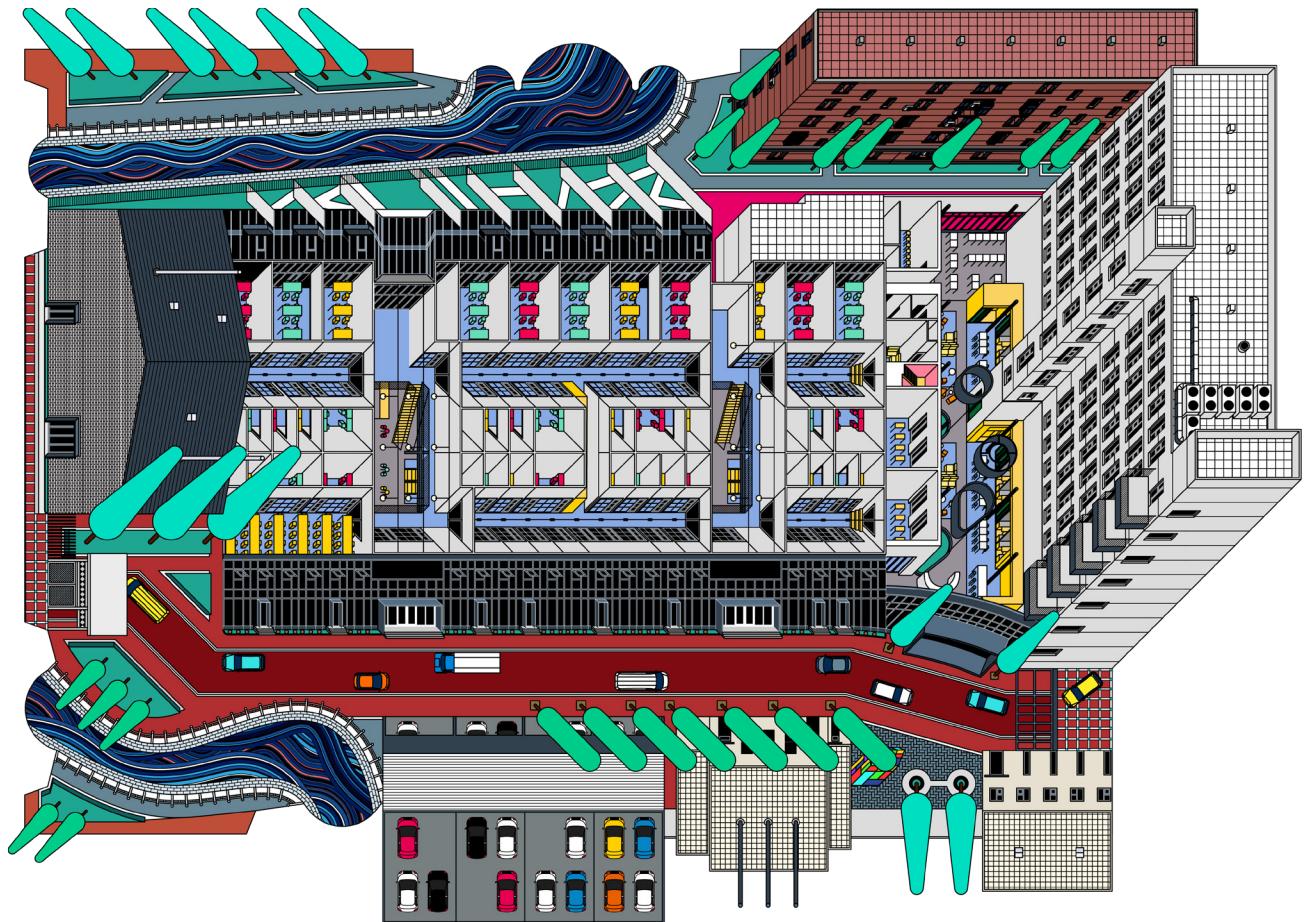
X-ray of the artificial city with three types of urban space combined.



- Four types of **urban spatial configurations** highlighted in red shows two urban villages, one remnant of the traditional Hutong, two towered gated communities and two slabbed gated communities.



- Nine **new architectural interventions** highlighted in orange is designed with transcriptions of Beijing's vernacular architectural language onto the historical canonical architectures.



EPark (Co-Working Office), 2014

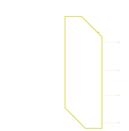
Former Beibingyang Soda Factory
25 N Huanyuan Rd, Bldg 1, Beijing



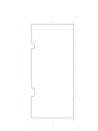
Spatial Context



Epark Building



Surrounding Buildings



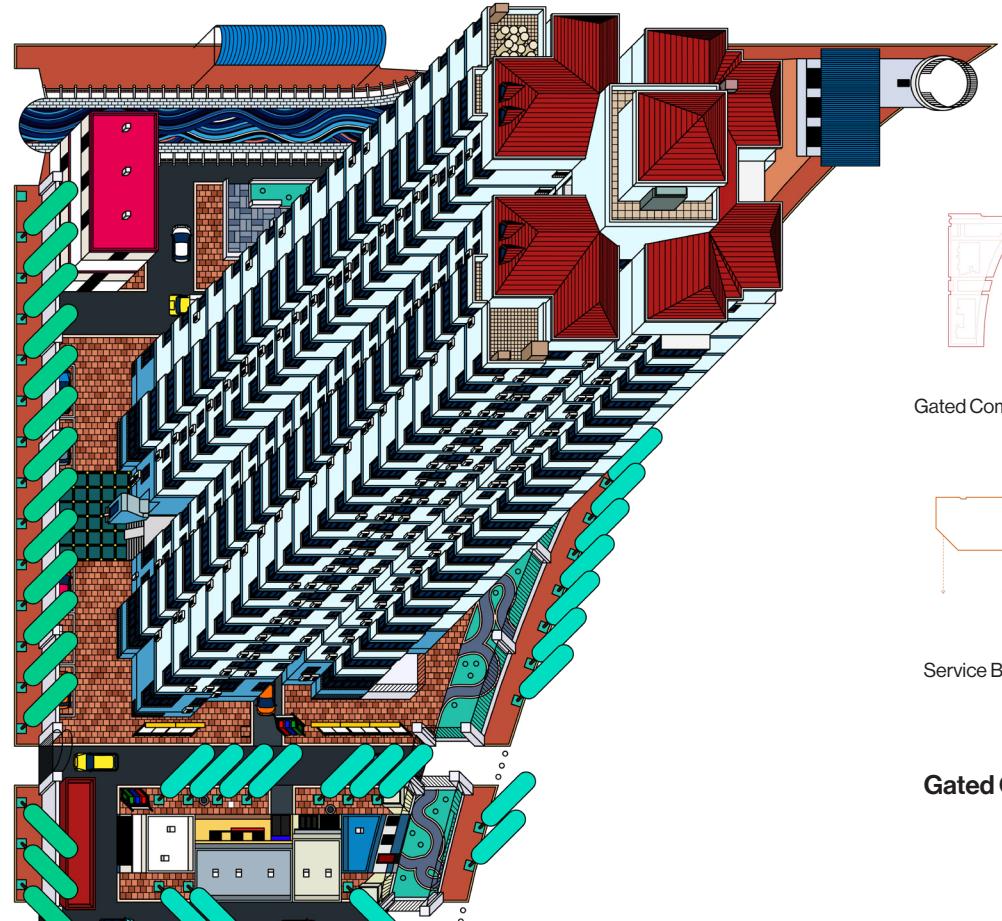
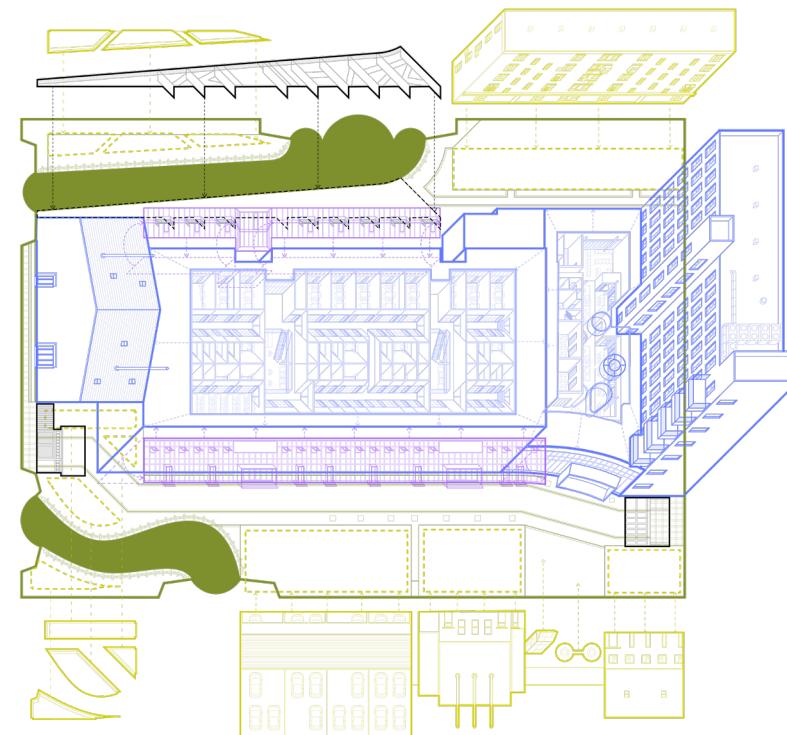
Interior Space



Interstitial Elements

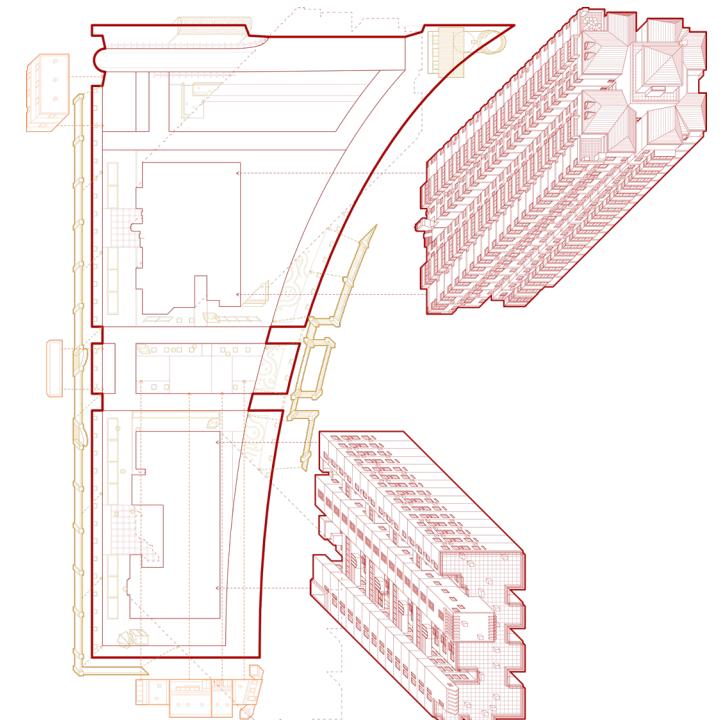


Facade Texture



Gated Community, 1990s - 2000s

14 Hepingli North Street, Beijing
8 Hinghua Road, Beijing



1. Survey: [Beijing Vernacular Architectures]

Patterns, Geometries, Colors and Added Structures



[Red Paint Ribbons]
[Bay Windows]

11 Guangmingbeilu N, Beijing



[Anti-theft Windows]

[Steel Roof Panels]

4 Anhai Avenue, Beijing



[Bay Windows]
[Steel Roof Panels]

3 Huagongdayuan Community, Beijing



[Anti-theft Windows]

[Steel Roof Panels]

9 Anhai, Beijing



[Circular Bay Windows]
[Anti-theft Windows]

2 Anhai, Beijing



[Pigeon House]
[Anti-theft Windows]

2 Anhai Avenue, Beijing



[Steel Roof Panels]
[Anti-theft Windows]

1 Anhai Avenue, Beijing

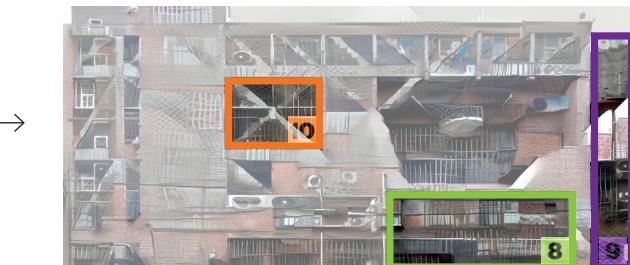
2. Feed: [Post Modernist Architectural Language]

K2 Building, Kazuo Shinohara, Tokyo



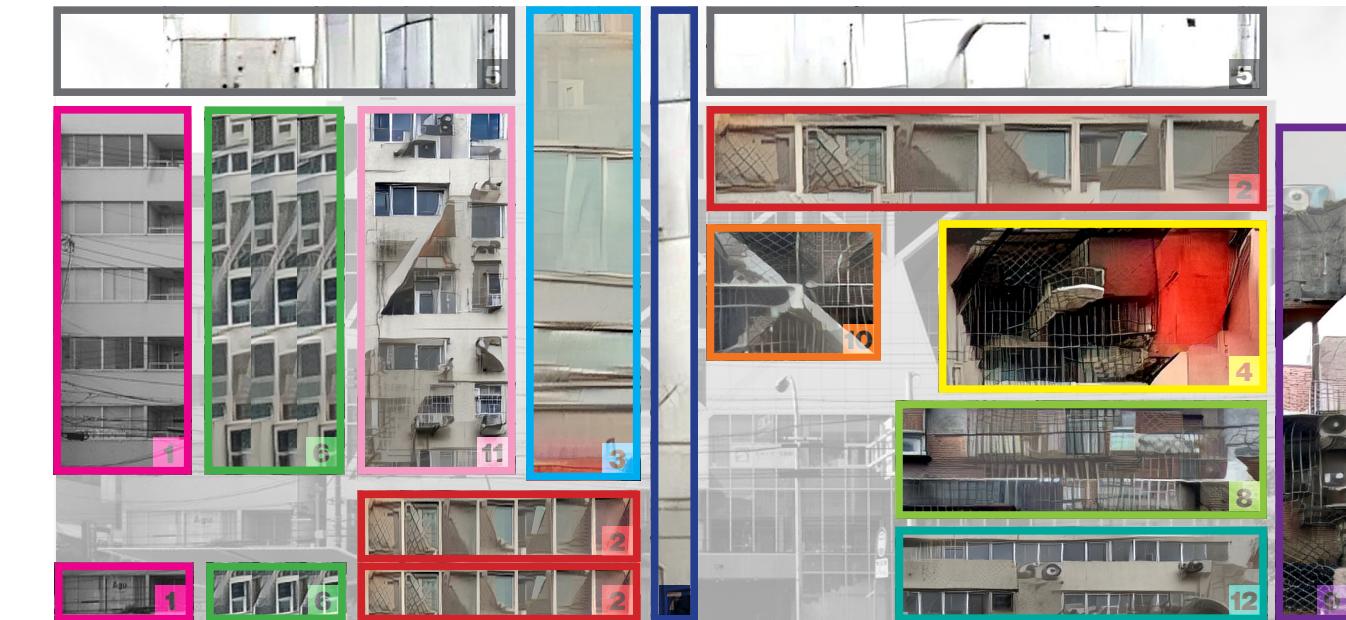
2. Feed:
[Beijing Building Facades]

ostagram Image Generator



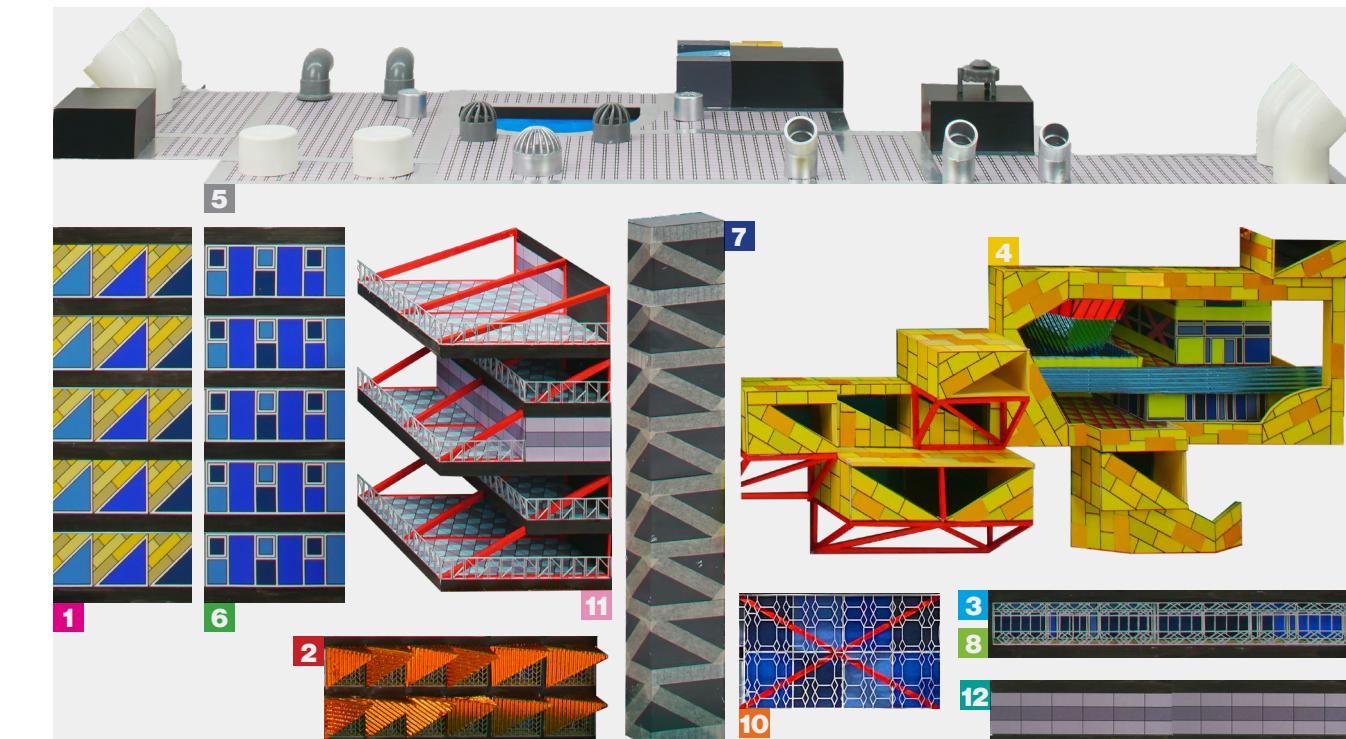
4. Collage: [Composing Facade Features]

Post-modernist Spatial Geometries and Beijing Vernacular Facade Expressions

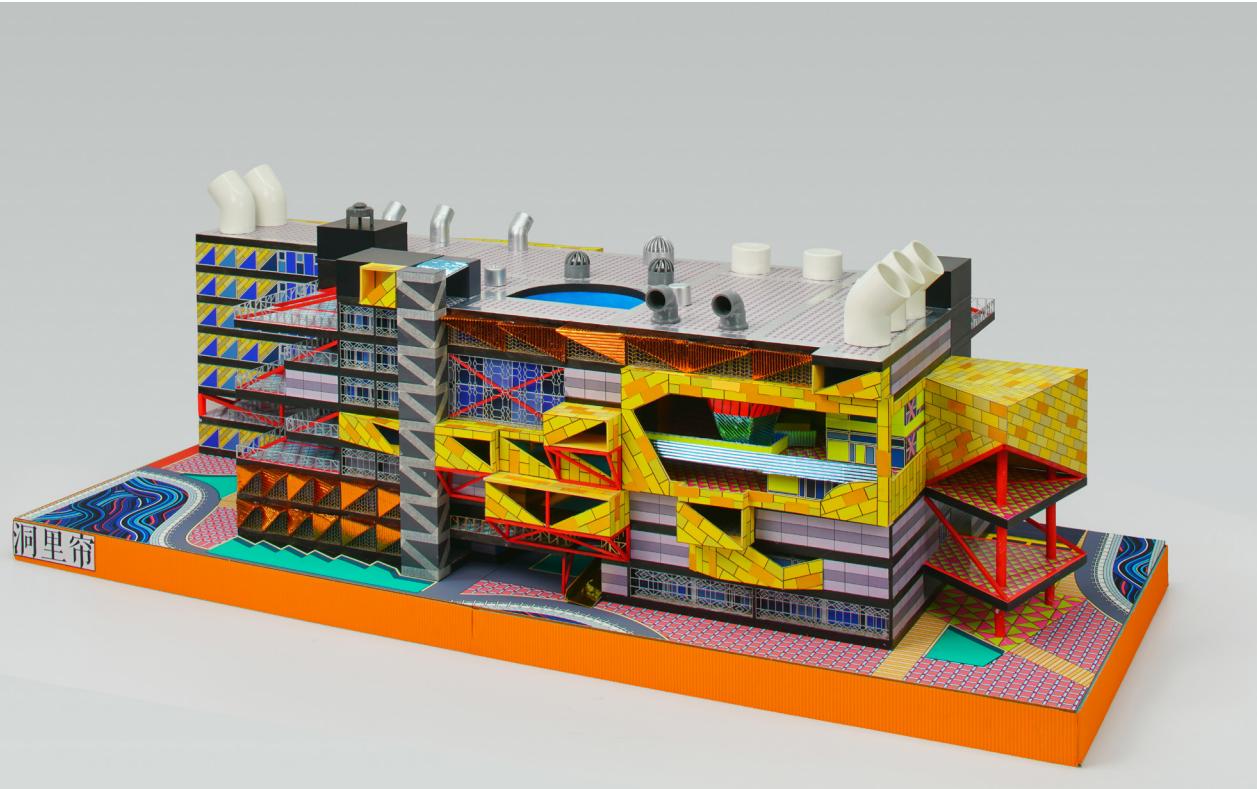


5. Interpret: [New Structures and Facade Elements]

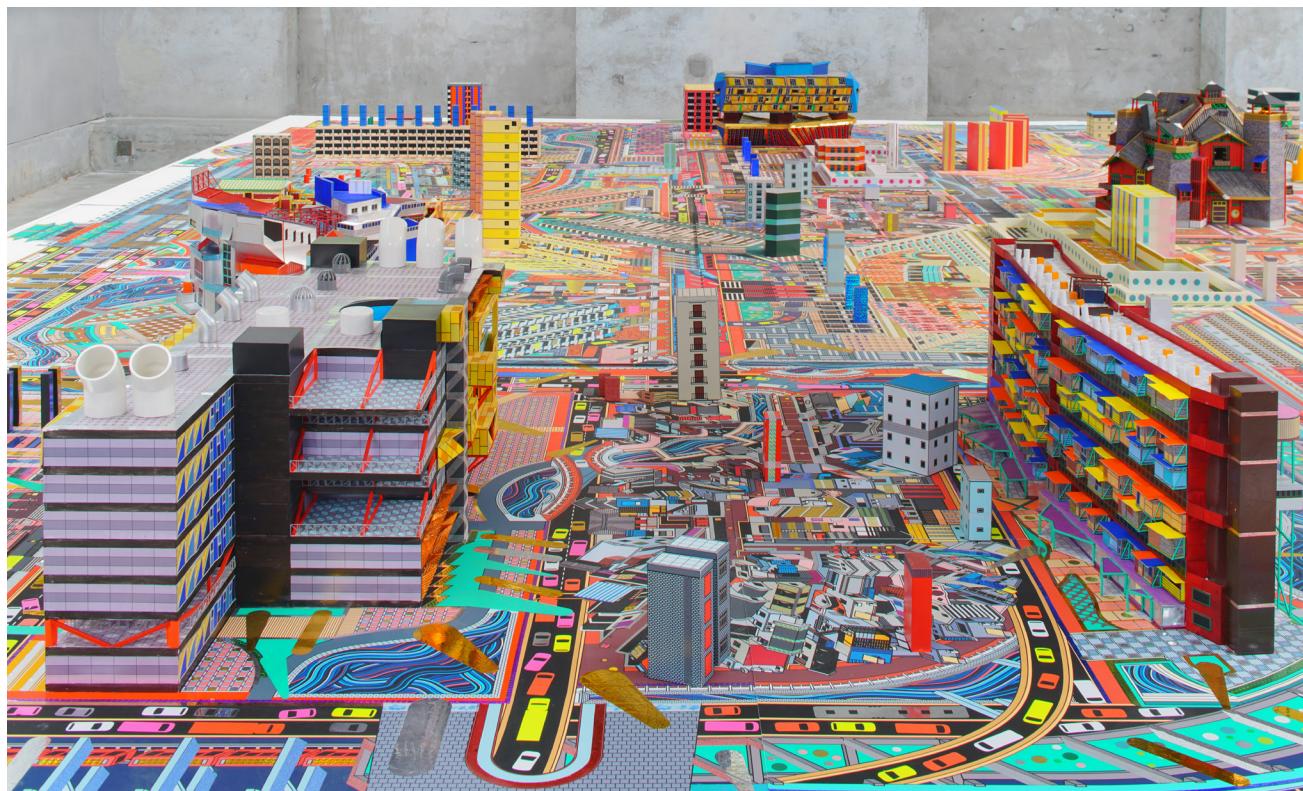
Post-modernist Spatial Geometries and Beijing Vernacular Facade Expressions



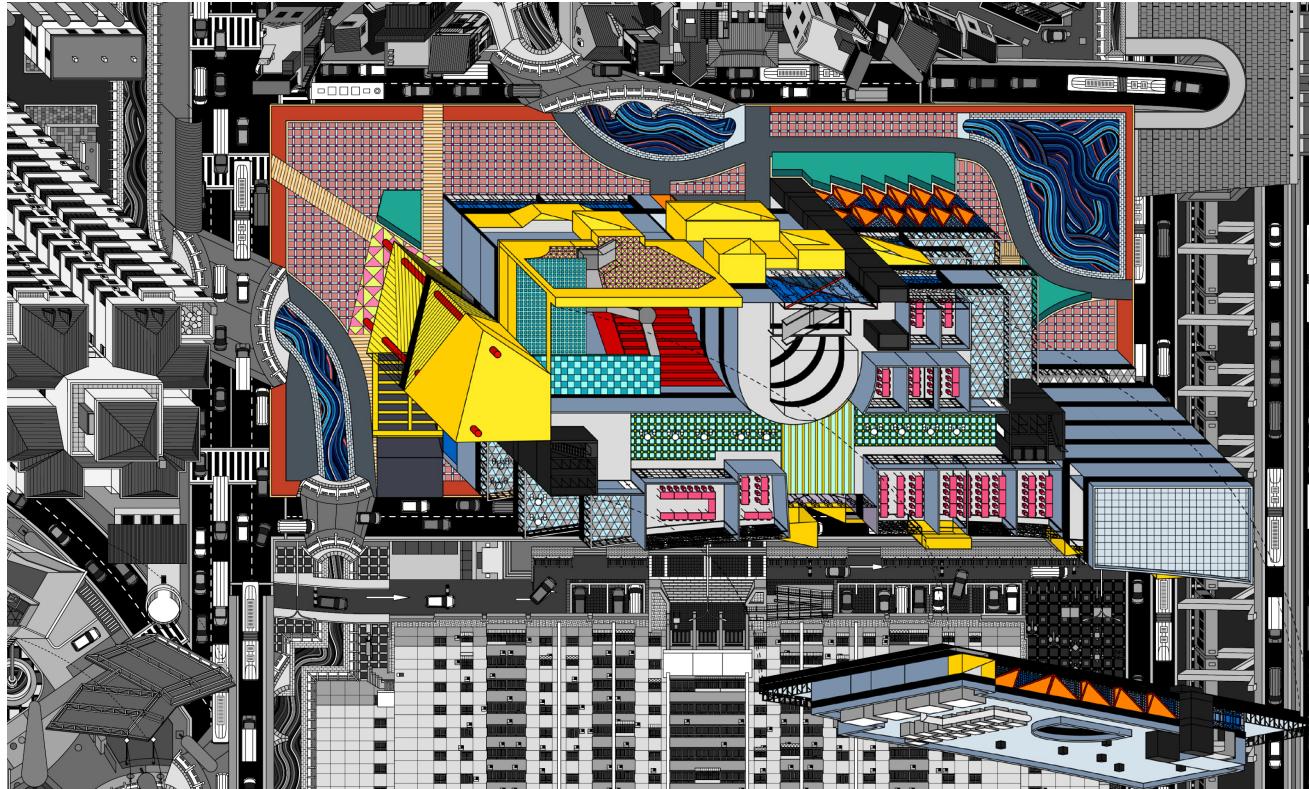
The major urban elements that have been referenced are the wild growing illegal balconies and security windows. In the design, the cell-like and gridded forms turns into retreated balconies encased within metal frame curtains and yellow balcony extensions that colonizes the original surfaces.



Pigeon Cage Office EModel North West View



Pigeon Cage Office Model and Immediate Context in "The Complete Map"



Pigeon Cage Office Exploded Axon and Immediate Context in "The Complete Map"



Pigeon Cage Office North West Facade Detail



Pigeon Cage Office South Facade Detail

Professional, Drawing Architecture Studio Internship

"Learning from Macau" (Left). I was in charge of creating the drawings of the center piece buildings of the major illustrations and other irregular compositional elements such as the railway, cone shaped buildings and etc. "Donngbei Renaissance" (Right). Helped with coloration and post processing of the drawing details.



"Learning from Macau" Mural on The Handover Gifts Museum of Macao



"Donbei Renaissance" Drawing Detail



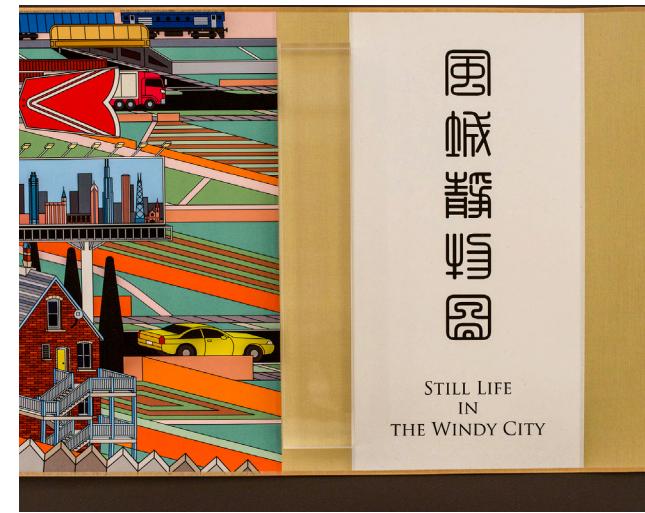
"Learning from Macau" Drawing Detail



"Donbei Renaissance" Mural at Dongmaoku, Shenyang

Professional, Drawing Architecture Studio Internship

"Still Life in the Wind City". I was in charge of designing one of the community engagement scenes illustrated in the drawing, including concept, content, compositions and lineworks.



"Still Life in the Wind City" Printed Drawing Detail



"Still Life in the Wind City" Printed Drawing Detail



"Still Life in the Wind City" Illustration.

Thanks for your time.