

PORTFOLIO

| ONYI EGBOCHUE



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PROFILE

Nigerian-American. Inspired by architecture that starts with civic engagement. Interested in the preservation of the environment, culture, and community through the means of sustainable architecture, material research, and community-based work. Enjoys studying different languages, playing musical instruments, and gardening for leisure.

EDUCATION

PRATT INSTITUTE
*BACHELOR OF ARCHITECTURE
MINOR IN SUSTAINABLE STUDIES AND
SOCIAL PRACTICE/ JUSTICE STUDIES
EXPECTED GRADUATION: SPRING 2021*

- President of Pratt National Organization of Minority Architecture Students
- Donna & Martin Rich ‘63 Architecture Travel Scholarship Recipient
- Event Coordinator of Pratt Student Action for Inclusive Design
- Archived for Pratt’s Green Week 2019: Sustainable Dormitory
- Archived in Pratt School of Architecture InProcess Journal

SKILLS

- Rhinoceros 6.0
- Photoshop
- Illustrator
- InDesign
- Vray
- Grasshopper
- Revit
- AutoCAD
- Hand Drafting
- Model Making
- Microsoft Office Suite
- Leadership

EXPERIENCE

HIDDEN HERITAGE PROJECT STUDENT FACILITATOR (REMOTE)
OCTOBER 2020 – PRESENT
PRATT INSTITUTE; BROOKLYN, NY

- Assist in facilitating virtual co-design workshops with Medgar Evers College Preparatory students to explore design as a driving force for social change
- Compile photo and video documentation of architectural and wayfinding elements within Weeksville
- Facilitate virtual breakout rooms via Zoom to provide homework guidance
- Organize and package architecture kit-of-parts for Medgar Evers College Preparatory students to create architectural interventions from home

COMPUTER LAB MONITOR
AUGUST 2018 – PRESENT
PRATT INSTITUTE; BROOKLYN, NY

- Deliver troubleshooting assistance for formatting digital prints and printing large format prints
- Provide students assistance in softwares such as Rhino, Adobe Photoshop, and Adobe Illustrator
- Accommodate lab facilities in preparation for class instruction
- Assist lab supervisors with software upgrades and maintenance of current software
- Utilize power tools to assist in lab, cable, and wiring maintenance

PRECOLLEGE ARCHITECTURE STUDENT MENTOR
JUNE 2019 – AUGUST 2019
PRATT INSTITUTE; BROOKLYN, NY

- Mentored fifteen local and international high school students interested in architecture during a four-week summer enrichment program
- Coordinated one-on-one assistance for immersive college-level courses such as hand-drafting, model-making, and introduction to design methods
- Prepared examples and step-by-step instructions for students to use outside of class
- Instructed after class homework sessions in a studio environment and encouraged students to critic their peers’ work

PRECOLLEGE DESIGN OPERATIONS & COORDINATOR
JUNE 2018 – AUGUST 2018
PRATT INSTITUTE; BROOKLYN, NY

- Created visually appealing promotion content in the form of designs, posters, flyers, brochures physically and digitally
- Designed presentations and presentation templates to be used by the administrative team to train student mentors and support faculty
- Photographed day-to-day activities, special events, and final gallery exposition and managed social media account via Instagram post/ stories
- Supervised excursion events such as visits to Día Beacon and the Navy Yard
- Resolved any concerns or inquiries from students, parents, and faculty with the administrative team

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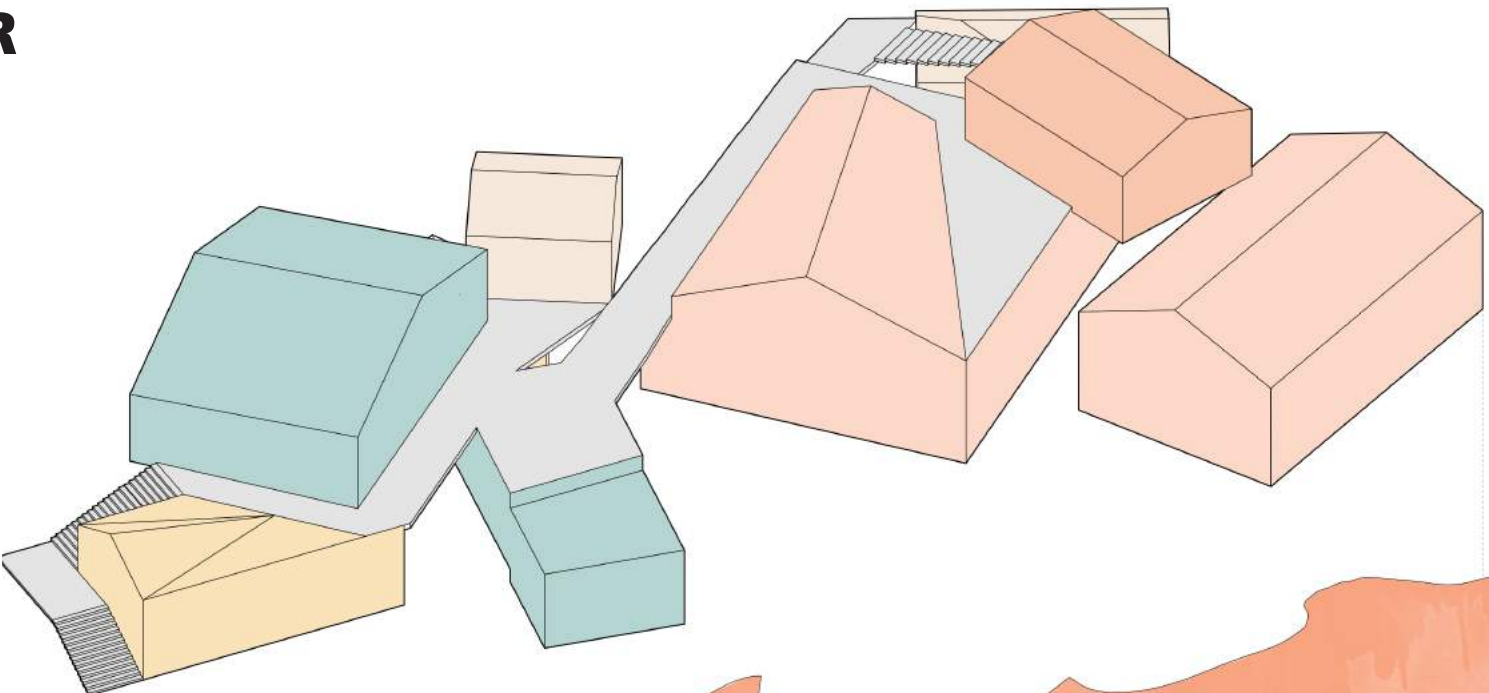
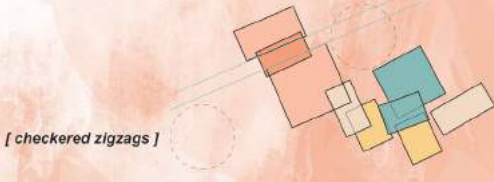
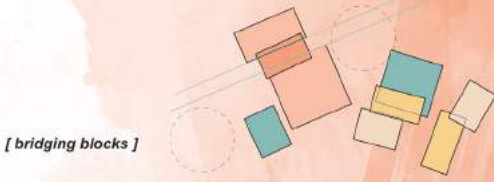
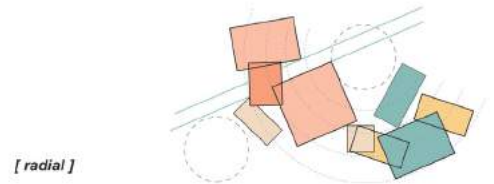
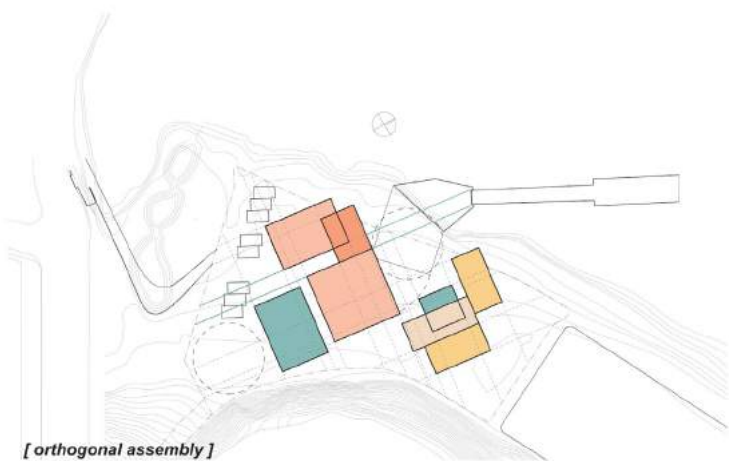
selected works

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* archived works

MUSCOTA ROWING CENTER

- [key]
- community.
 - boathouse.
 - admin.
 - training.
 - locker rooms.



ASSEMBLED
PROTOTYPE
SHED.

WOOD SLATS

WOOD SLATS

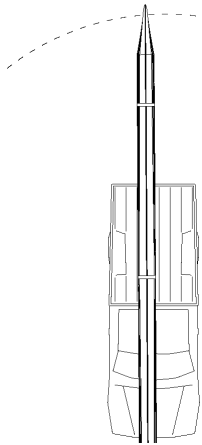
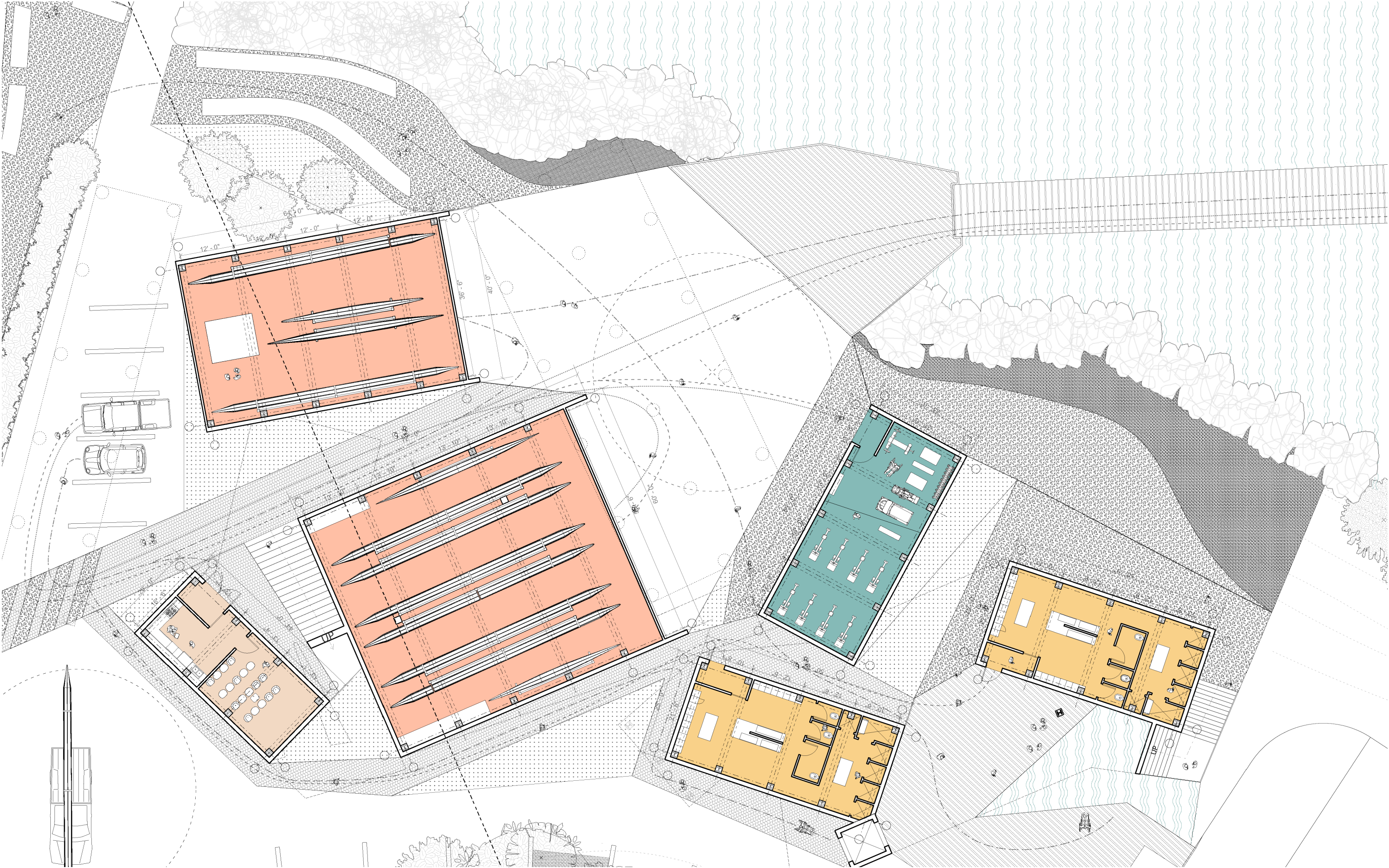
EXPOSED STEEL FRAME

OPTIONAL GABLE END WINDOWS
OPERABLE FOR MOVING BOATS

- 1 6" x 2" vertical slats wide-side out - 6 1/4" o.c. spacing
- 2 4" x 2" vertical slats parallel to facade
- 3 4" x 2" vertical slats perpendicular to facade

organizational + assembly diagram

The Muscota Rowing Center is an extension of the Muscota Marsh Park in Inwood, New York. The Center houses public community rowing/recreational facilities, as well as private Columbia University facilities, replacing their outdated boathouse on the lot. Columbia's presence in Inwood is contrasting and alien, but the funding from a major private institution is the chance for Columbia University to give back and share the amenities. The community is welcomed into the meandering paths to enjoy and explore the park and boathouse extension. The borders between public and private blur, and the marsh becomes an interstitial space focusing on occupying interstitial spaces within it.



zoom in ground floor plan



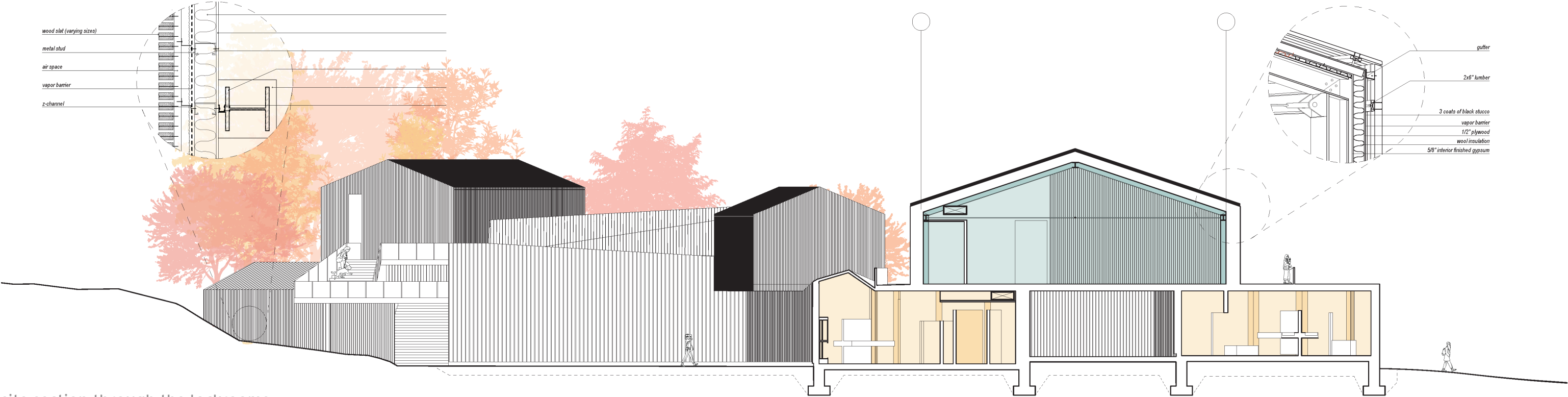
exterior perspective: entering from park



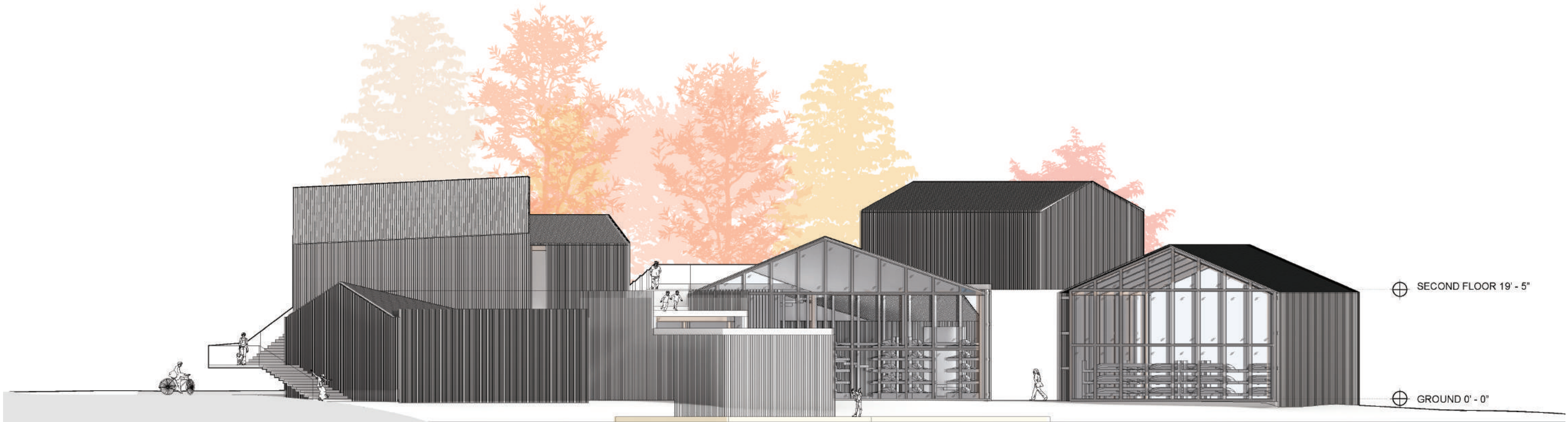
elevation from the park



physical model

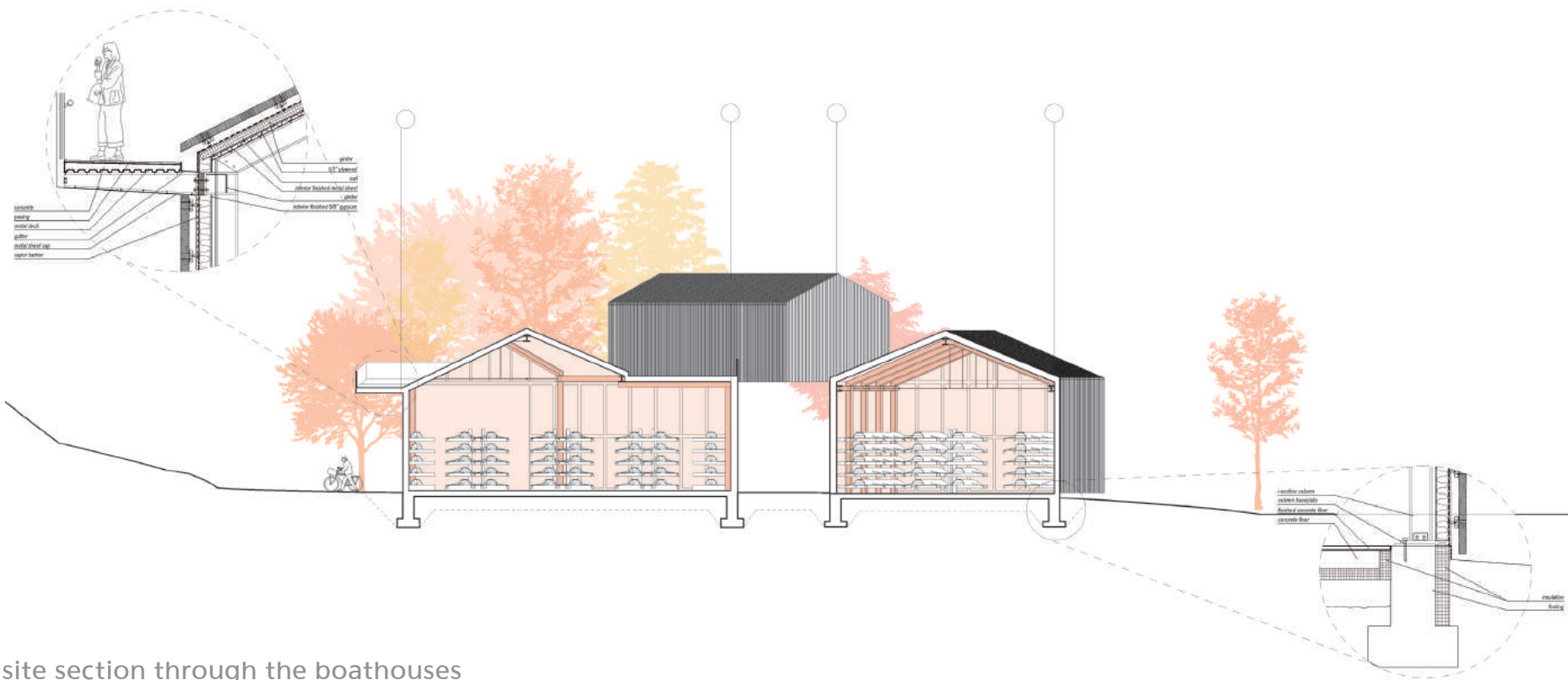


site section through the lockrooms

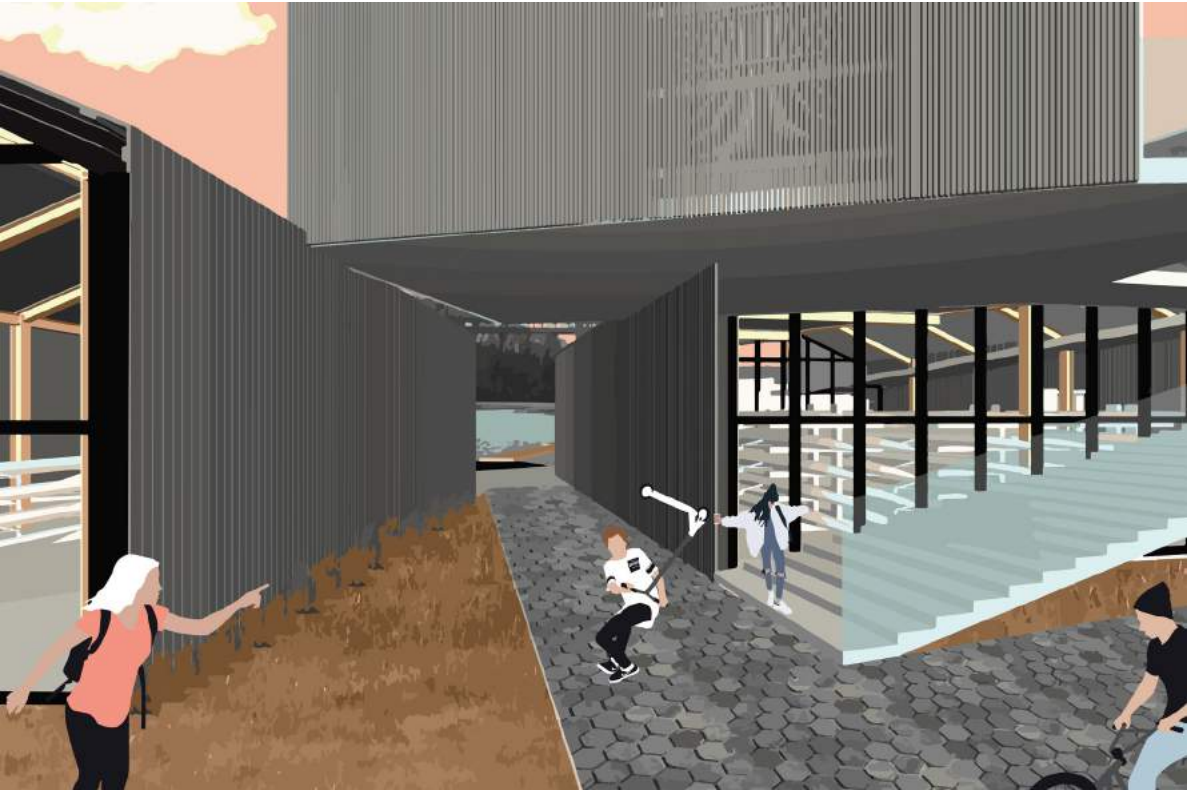


elevation from the water

The paths from the existing park interweave through the programs of the Center, which allows the building to become occupied by the public. These looped paths allow for infinite exploration and interaction with the building, boats, and eco-system. Separating the programs into individual scattered components allows all interstitial space on the site to become an interwoven net of public walkways. The interspersed and stacked houses allow for reveals and discovery as the occupant moves around and utilizes the various spaces. This playful environment promotes accessibility to a wide range of community members, allows the architecture to mimic and blend in with the site context, and encourages the users to interact with the building beyond the fact that it stores boats and enables shelter, in a tactile manner.



site section through the boathouses



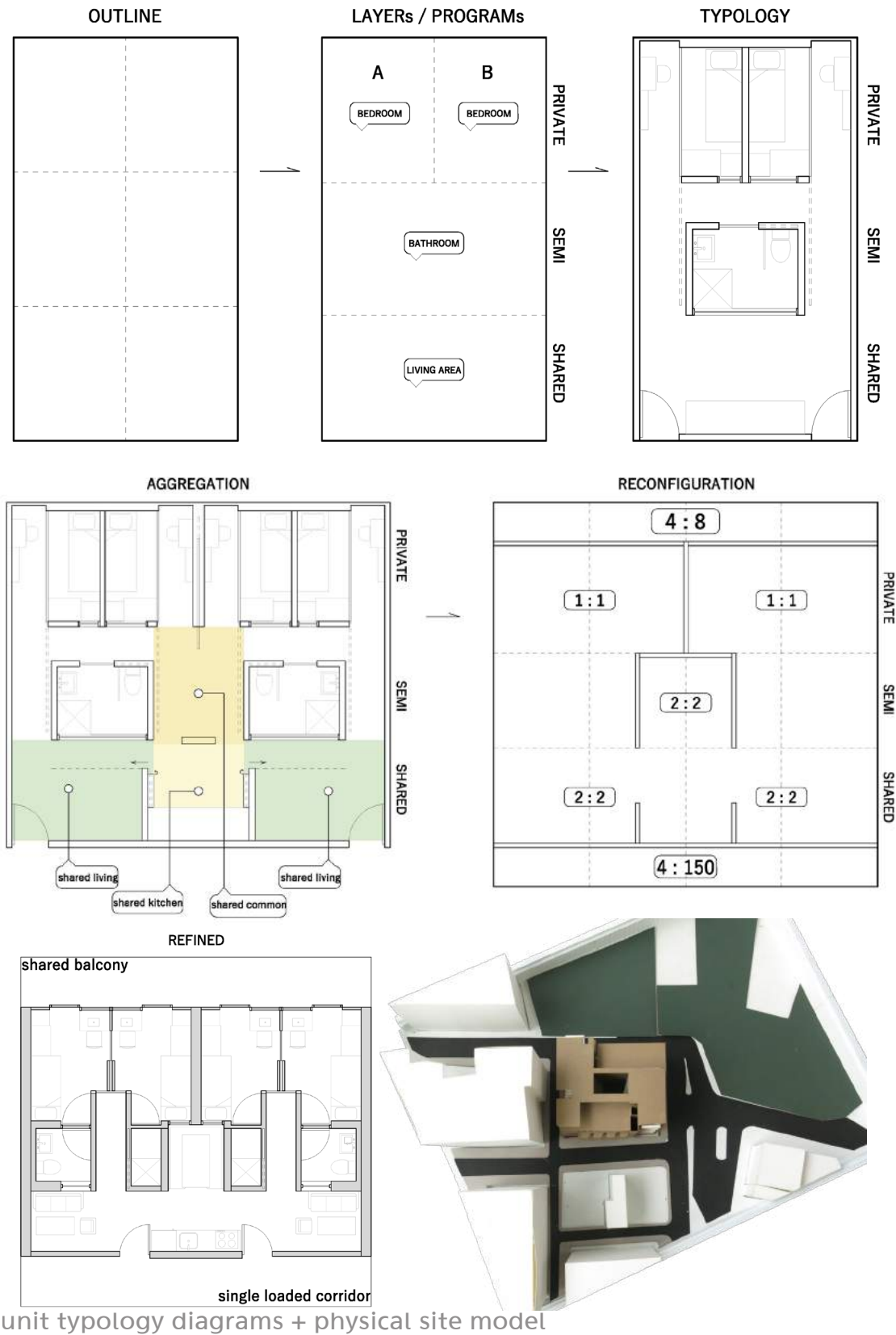
exterior perspective: pathway under the community classroom



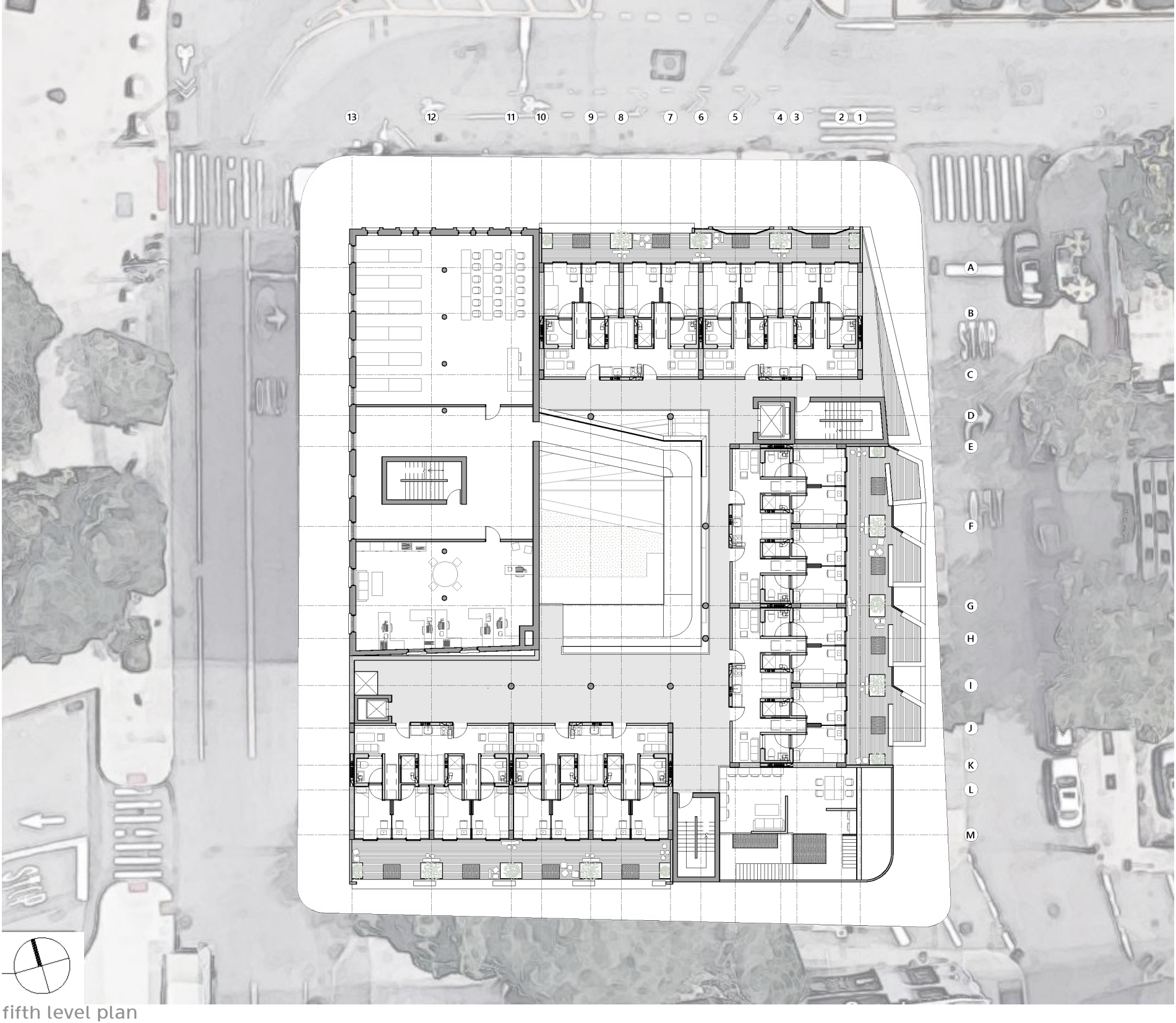
upper floor plan

ST. FRANCIS COLLEGE DORMITORY

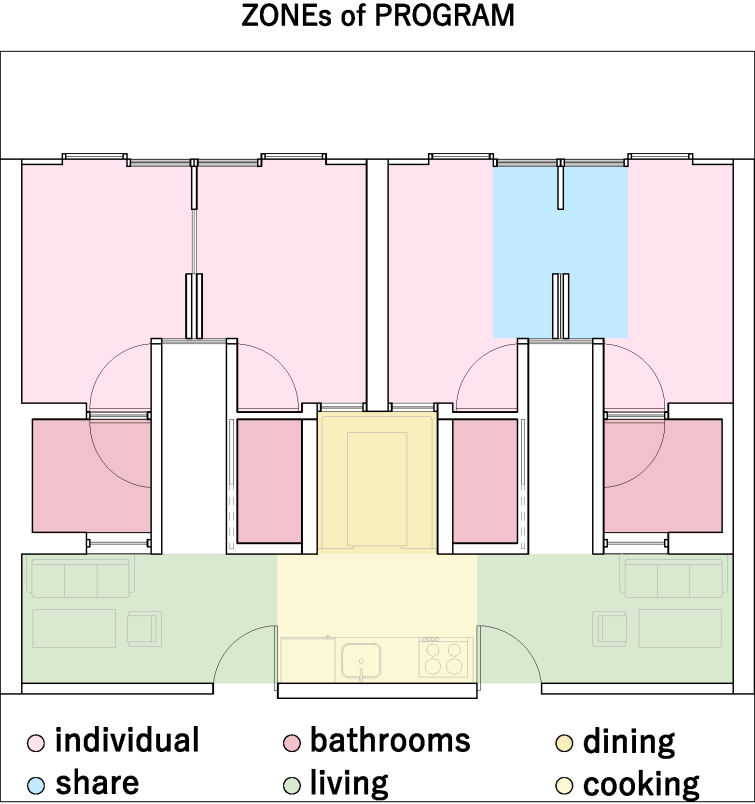
The ideal dormitory allows the occupants to adapt to the new environment - a student's relationship to a new temporary home. The concept is unit design-driven. The unit design gives the occupants the ability to transform their space via sliding components that further divide the space. This layering effect allows the occupants to divide spaces from the individual, roommates, and suite collective. All the dorms are grouped in stacks of four (two double units) to form a cluster. The entire dormitory mimics the individual dorms in which it functions on a spectrum from public to private. Additional program within the dormitory includes social spaces (2F-4F), study cafe (5F-6F), rooftop gym (7F-8F), and a library (Old Fulton). The library in Old Fulton connects with the catwalks from the dormitory which allows fluid circulation from Old Fulton to roughly 50% of the floors.



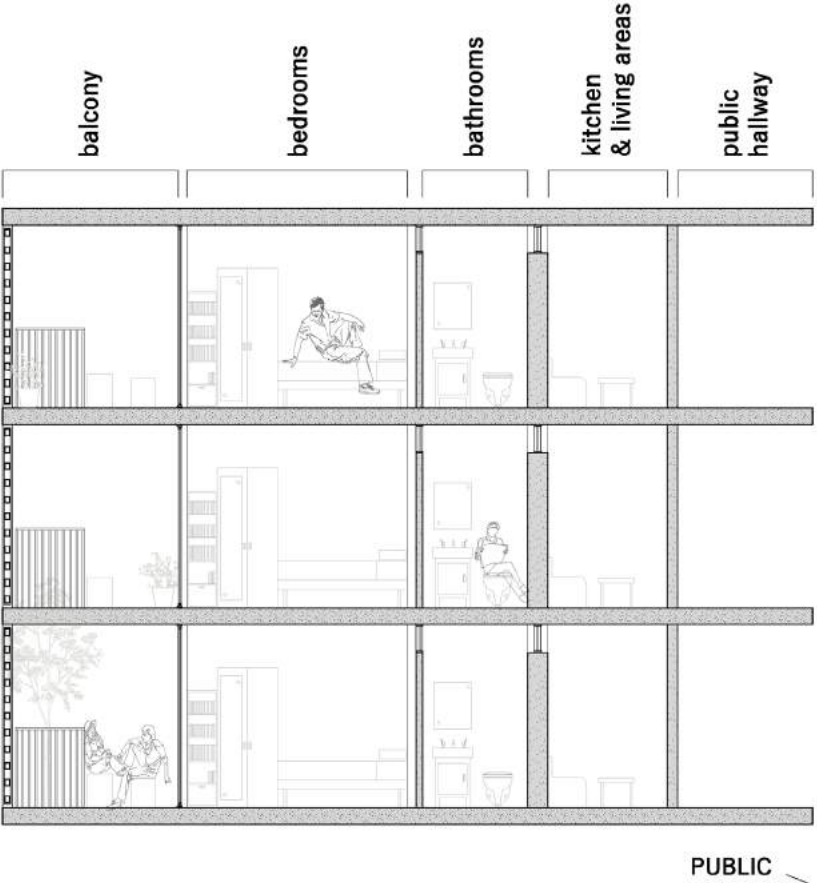
unit typology diagrams + physical site model



fifth level plan



unit diagram: zones of program



unit diagram: levels of privacy



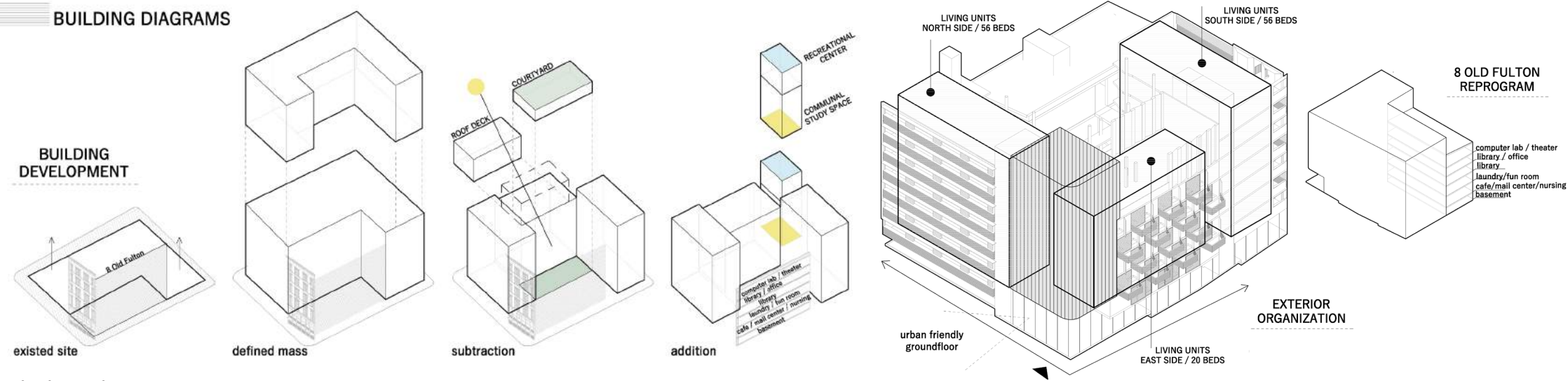
interior perspectives of individual dwelling space



interior perspectives of shared dwelling space



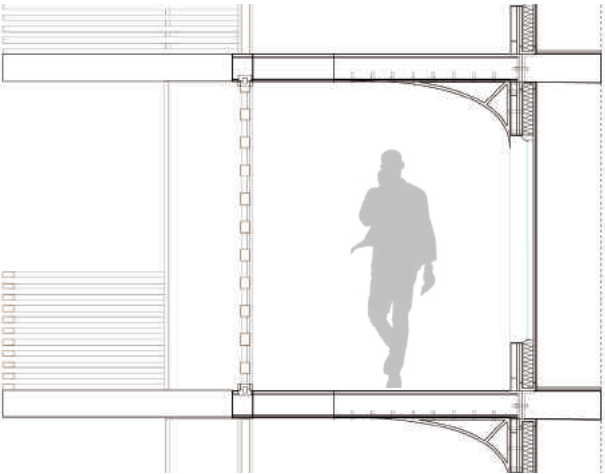
exterior perspective: shared balcony on east facade



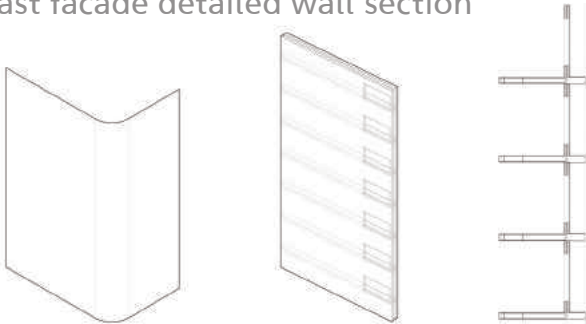
building diagram



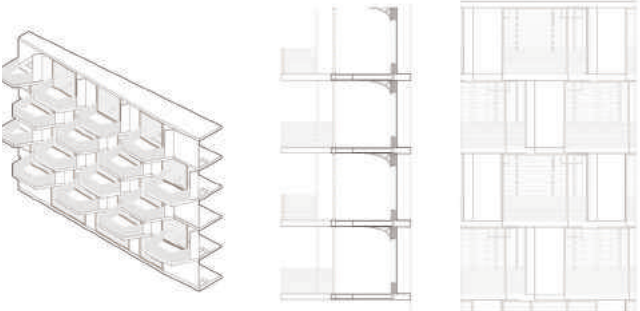
exterior perspective



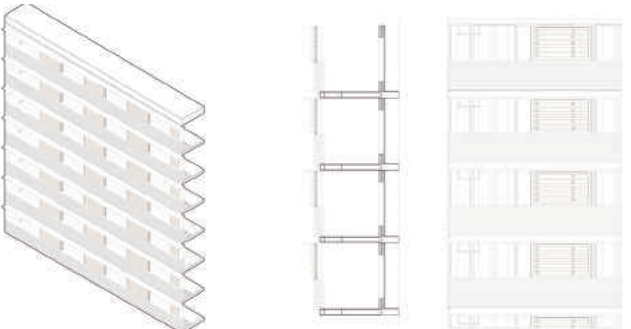
east facade detailed wall section



southeast corner facade + typical wall section



east facade: axon + wall section + elevation



south facade: axon + wall section + elevation

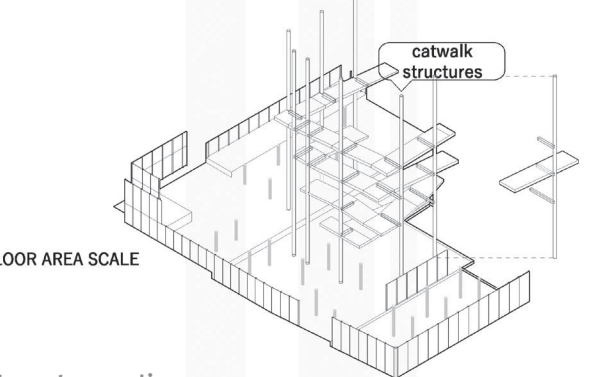
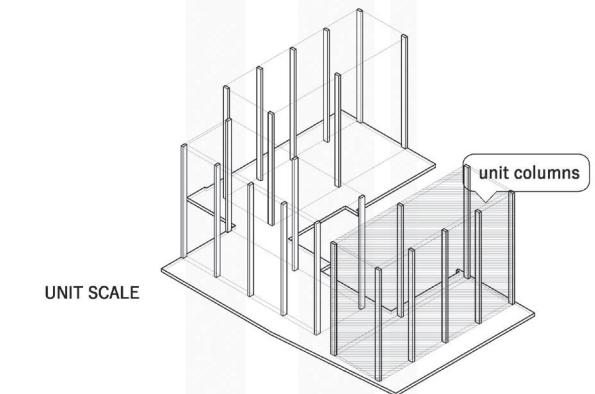
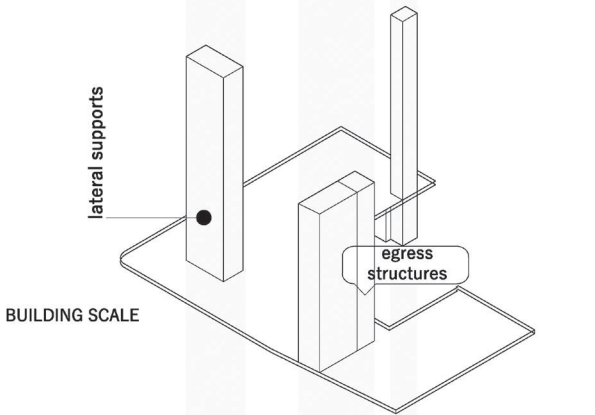
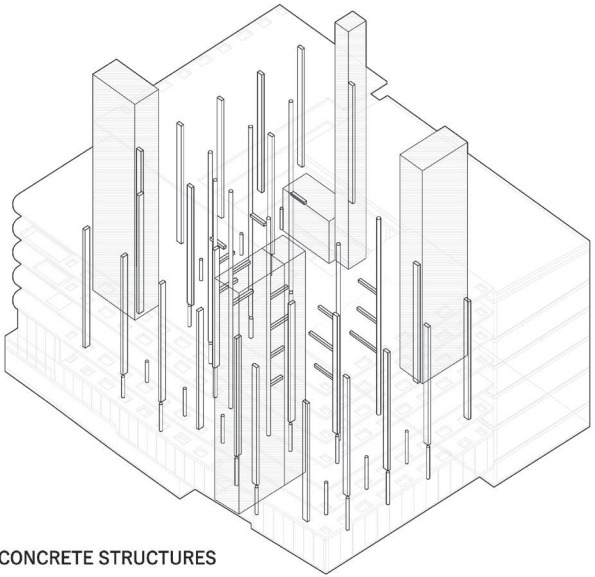


north facade: axon + wall section + elevation

The social catwalks protect a 20ft-by-20ft courtyard and offset outward to allow light to enter the dormitory. All students are granted a view facing the atrium. The extensive green roof acts as a low albedo roof while the indoor constructed wetland recycles greywater to be reused for blackwater usage. The filtered water is then collected in a basin and pumped through a supply pipe. Using a reflective concave material of high albedo, the catwalks bring light into the rooms on the south side. The operable skylight allows the building to utilize the stack effect to suck out the hot air from the building. The interior courtyard helps improve the air quality of the building. The horizontal louvers and overhangs control shading and how light enters the building.



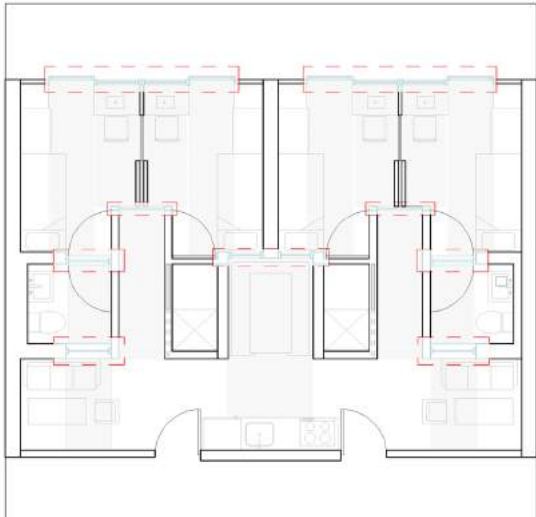
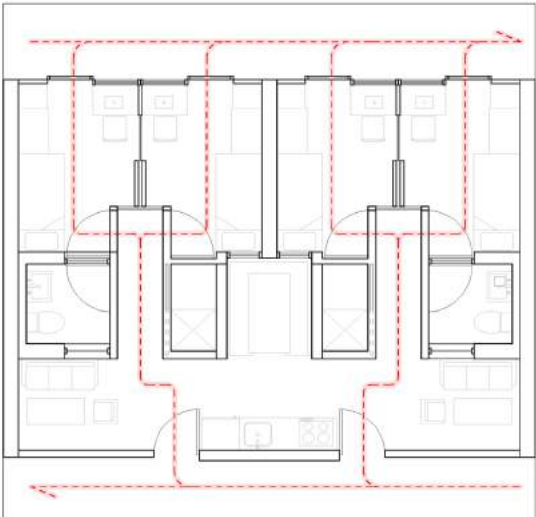
perspective section



structure diagram

CIRUCLATION

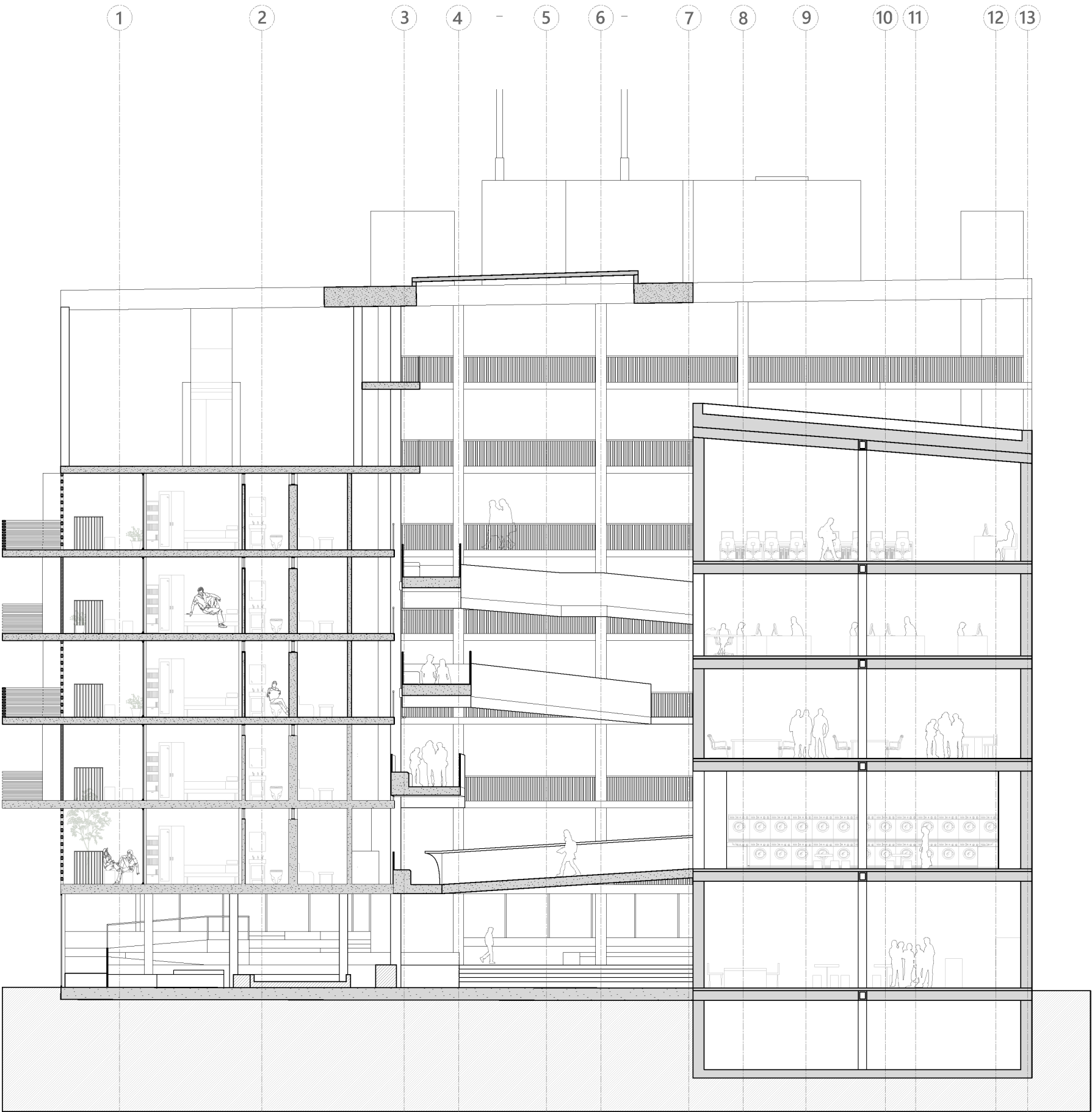
ZONEs of LIGHT



unit diagram: circulation + lighting



interior perspective: catwalks



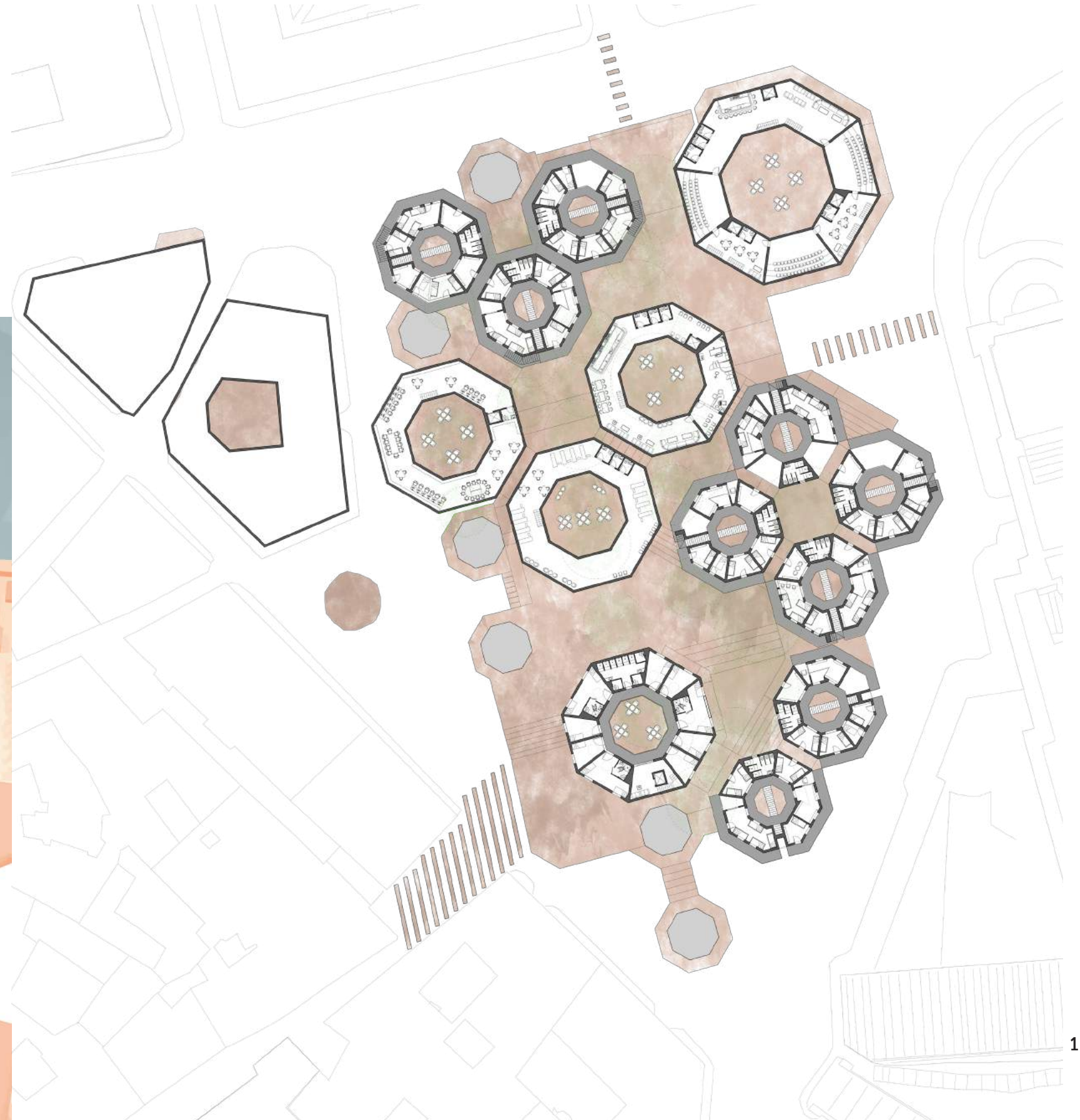
north to south section

IL COMMUNITÀ MERCATO PARCO

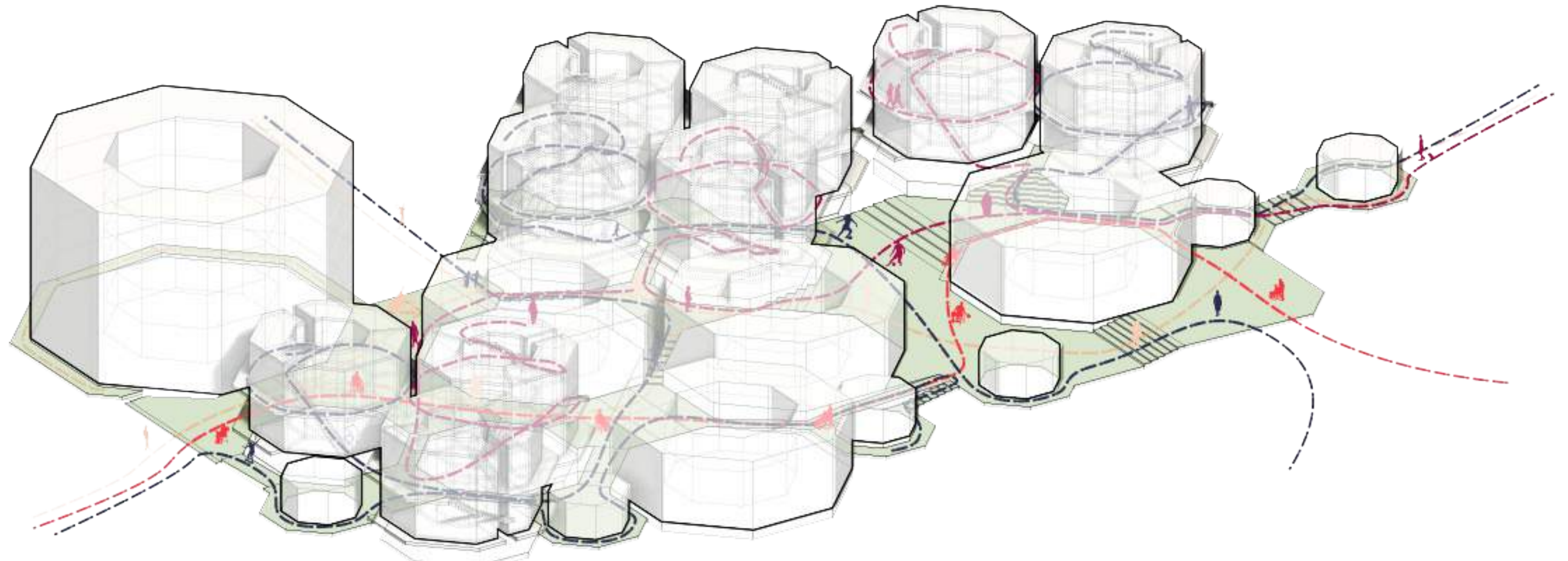
Housing for asylum seekers and pilgrims are unified to encourage community. Prefabricated modular units aggregate together to form housing clusters. The elevated housing clusters create a shaded courtyard below. The surrounding park provides green spaces, market spaces, seating, and shading for residents, tourists, and travelers. Ground routes prescribe different itineraries for different users, including visiting tourists and families seeking protection. Life centers surround the park, providing access to health, shelter, recharge, knowledge, guidance, and entertainment. The life centers and housing clusters vary in scale to establish a hierarchy of flexibility that transforms the courtyards, market spaces, and shaded spaces. The sense of community is formed through the dialogue of the users' itinerary through the park and the spaces resulting from their choreography.



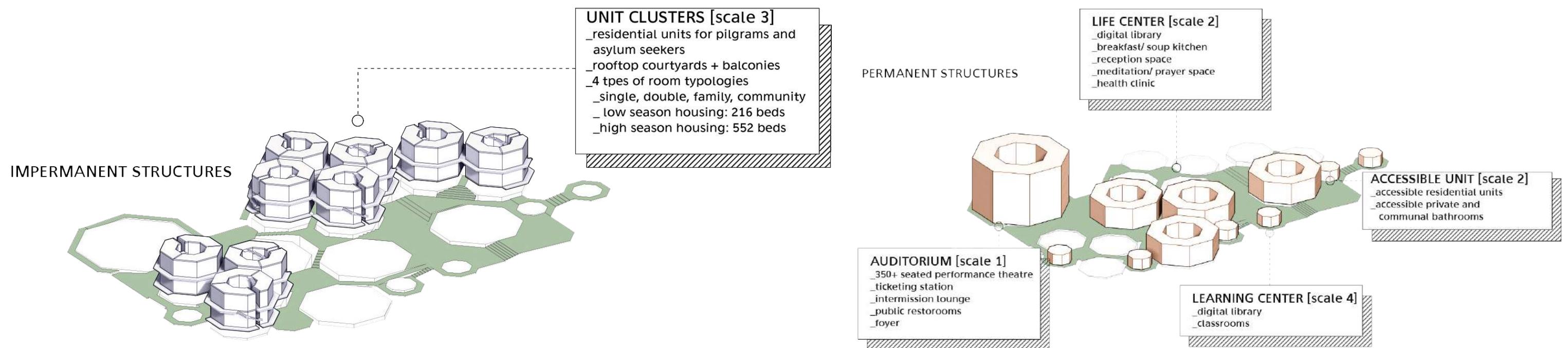
exterior perspective from the Cordonata



upper floor plan



circulation diagram



program diagram: impermanent and permanent structures



site plan



site section through the Vittorio Emanuele monument



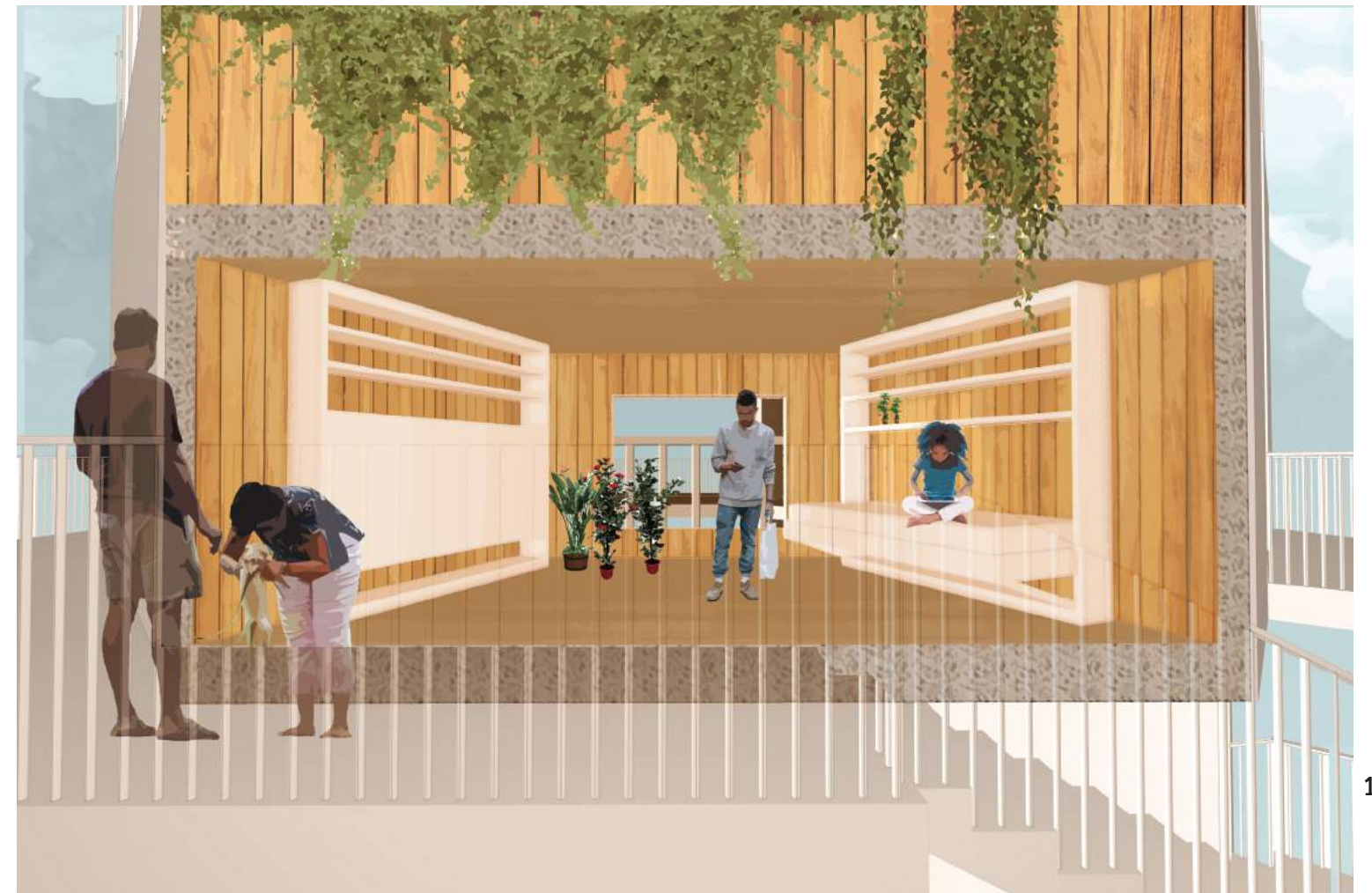
exterior perspective: market space + housing cluster



section through life centers and housing clusters



ghosted interior perspective of lofted community housing room



ghosted interior perspective of double housing room

DANCING GROUND

Even though it is quite isolated, there is a strong sense of community and an underlying sense of “rhythm” within Buscalan. There is no dance without ground. Through its dances, Buscalan, the earth holds rituals, histories, and residues of life’s movements; cultivating its earth is the only way for their practices to survive. Entering Buscalan through the two outermost rice terraces, project Dancing Ground provides space for the new youth of Buscalan to learn and engage in dance. Dancing Ground provides various levels of circulation that explore pathways from the homes of the villagers and the entering pathway into Buscalan to the schoolhouse and open field ground.



site section



physical collage study



third level plan

The dance platform closest to the schoolhouse is where the youth will subconsciously practice through their individual ways of navigating the village. Nearing the schoolhouse, this space offers information on important rituals, traditions, and tribal dances of Buscalan. As the youth make their way to and from school, the circulation mimics and transforms the ground, amplifying these movements of dance that are difficult to preserve in written form. The dance platform nearest to the entrance of Buscalan is slightly elevated and used publicly where locals and tourists intertwine. Traversing through a gradual ceremonial ramp, the third platform is the most private and the highest platform in Buscalan designated for celebrations and rituals exclusive to the Buscalan people. This platform creates a space for elders to continue dances they have learned over the years and to share them with the rest of the village. Underneath this ceremonial platform, there is a gathering space dedicated to cooking and eating which further enhances tradition.



physical model collage



collage perspective: dance platform level one



collage perspective: dance platform level two



collage perspective: dance platform level three

CHINATOWN CLOUD LIBRARY

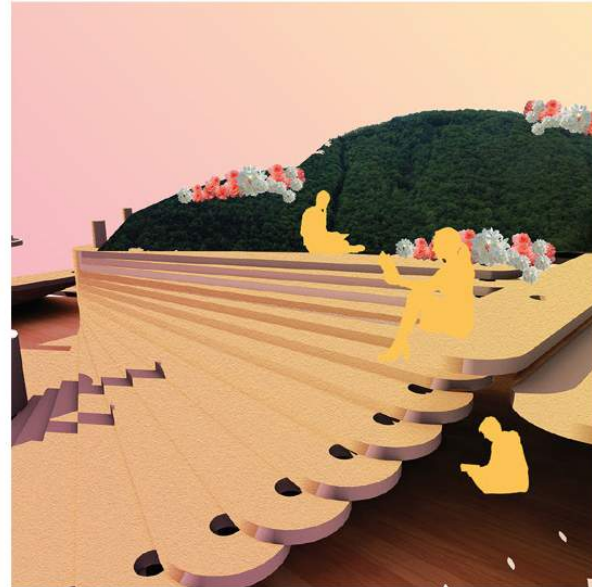
Located in Chinatown on Grand and Chrystie Street, this library is a study between the constructs of erosion to growth and flexibility to rigidity while balancing the feeling of light, airy, and cloud-like sense. Chinatown has a strong sense of culture and a self-sufficient, independent body. The transportation system in Chinatown includes the subway, bus, personal vehicular travel, and walking; the transportation system acts like the veins and arteries of Chinatown - regulating the number of people in and outside of Chinatown. The library acts like a mutualistic cell within the body of Chinatown. The library opens at the corner which is congested by non-locals and businesspeople (traveling through the arteries/veins); the open corner allows Ayard. The sublevel floor connects with the subway transportation system. The library itself is not only a cell within this larger function, but it also has its own "bodily" functions. One of the predominant systems is the vertebral columns (spine system). The spines within the library are filled with vertebra that can conform to the human body, from large to small scale functions. For the larger vertebra, the spines help conduct the program and how the spaces will be transformed, while the smaller vertebra acts on a more personal level such as study areas, reading areas, and help with circulation. The skin allows light to pour into different spaces of the library due to its elastic nature.



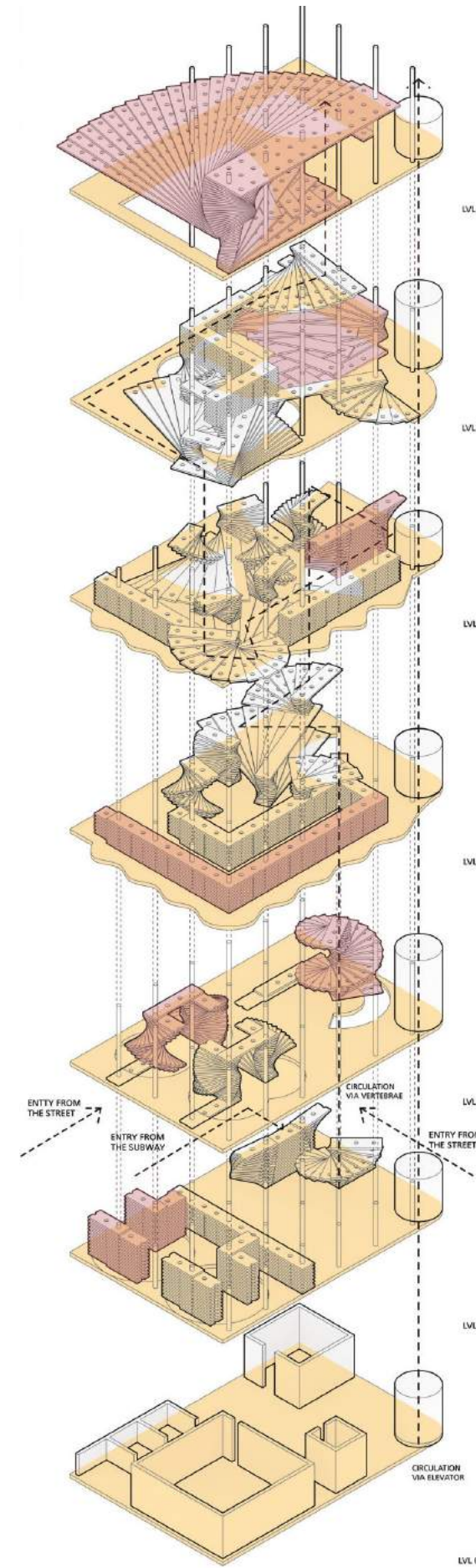
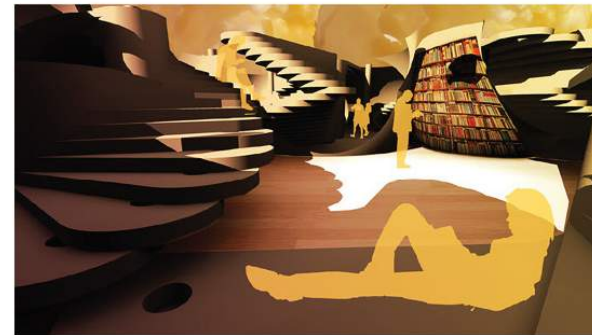
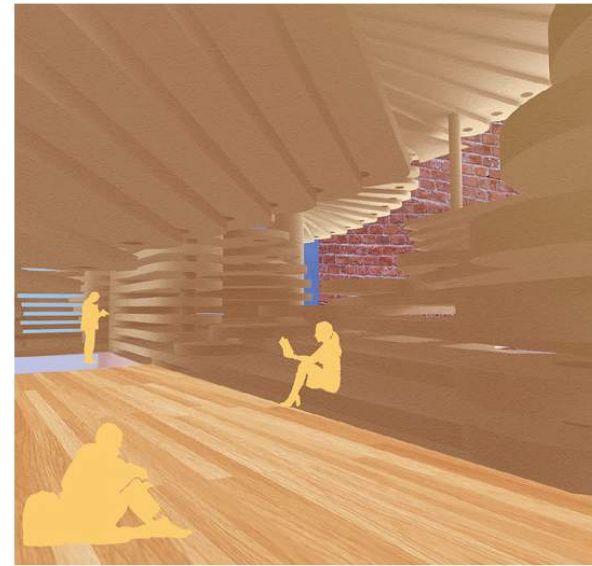
site plan with matrix diagram overlay



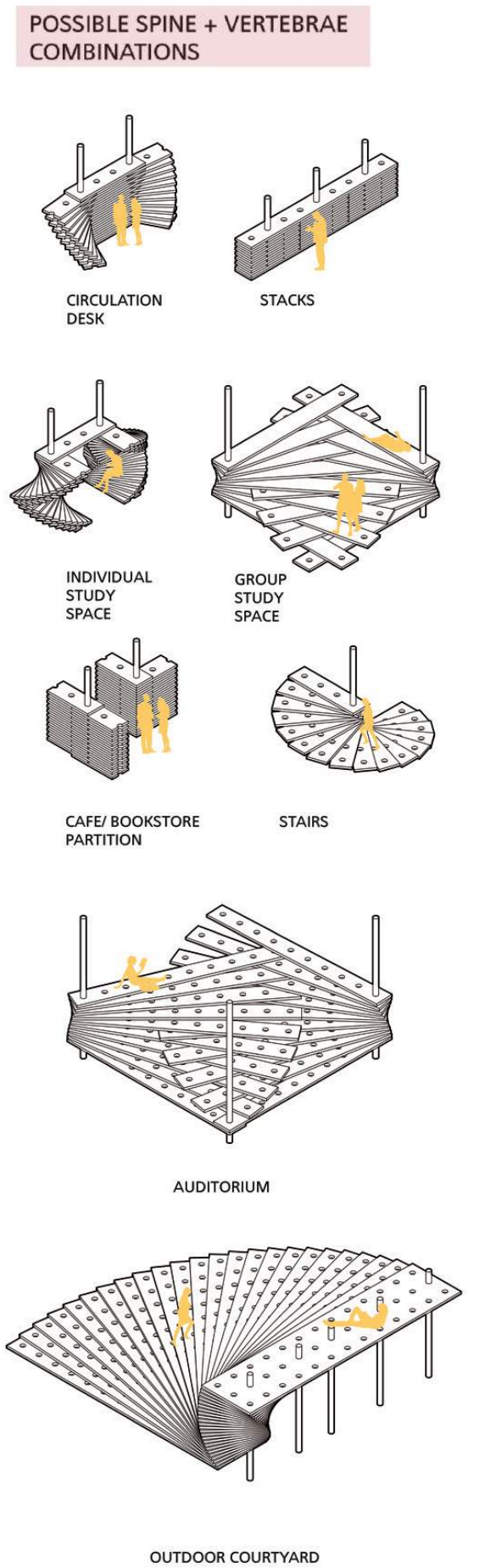
exterior perspective



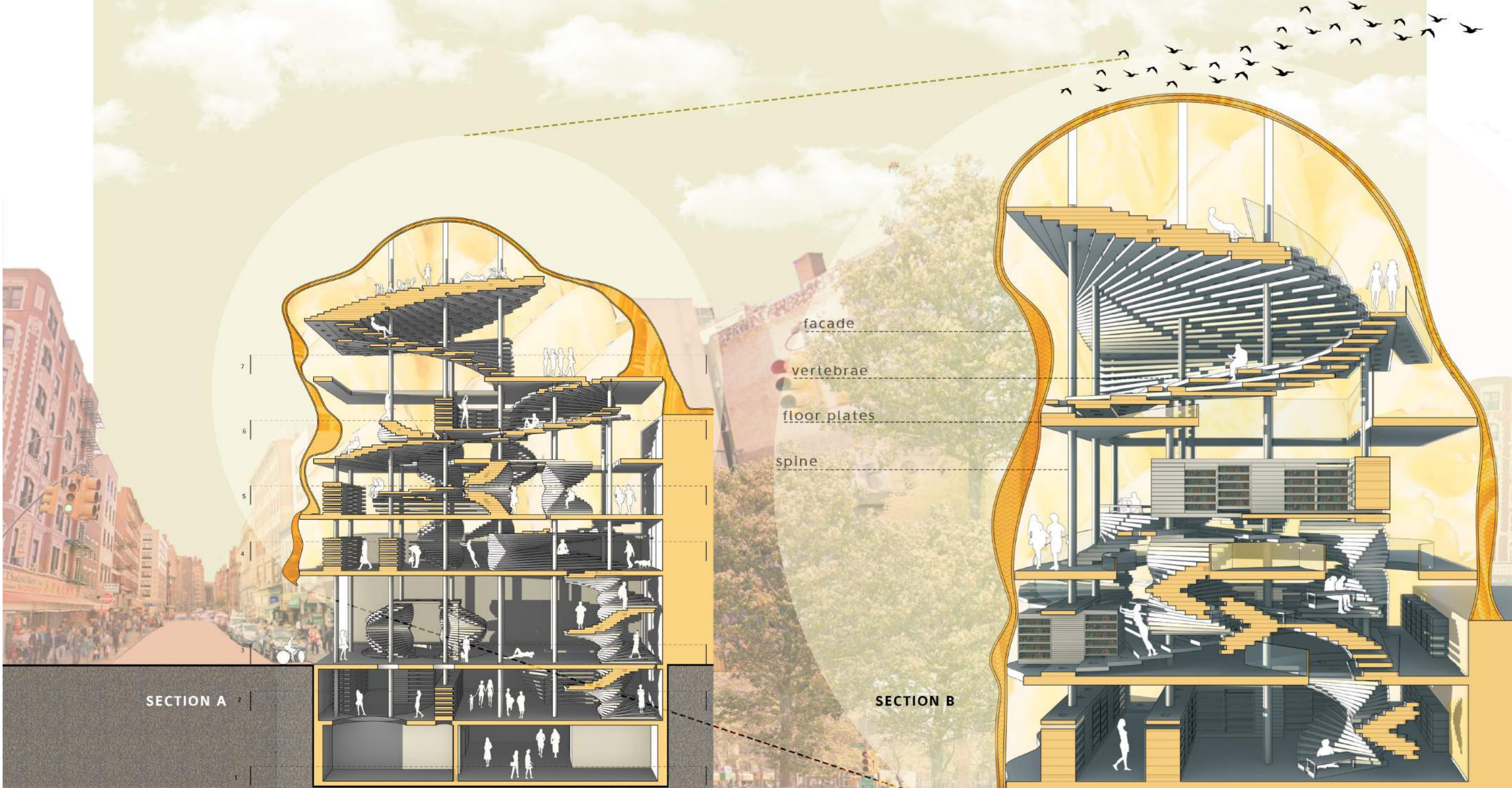
conceptual collage + model studies



circulation axonometric diagram



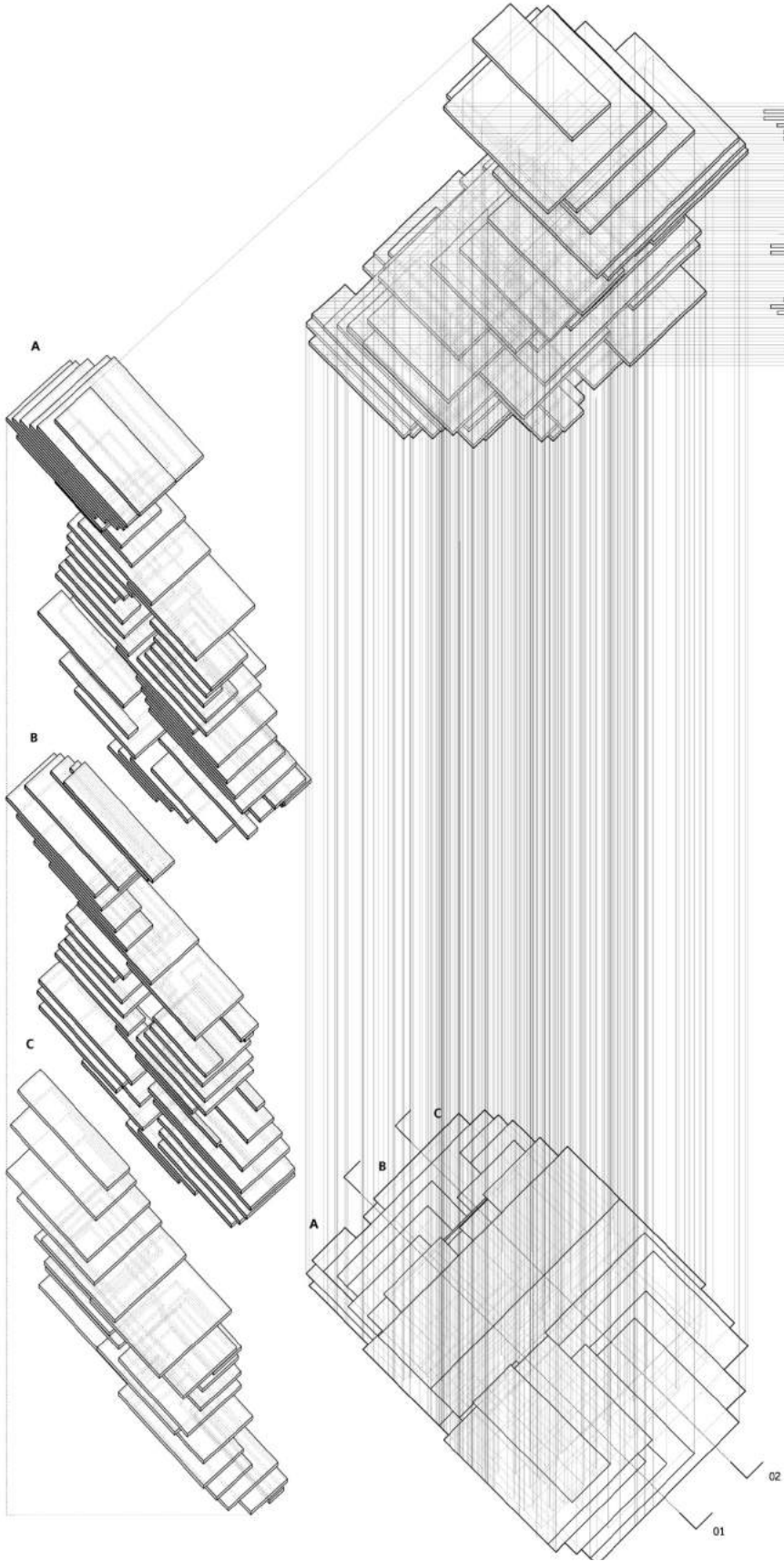
individual program diagram



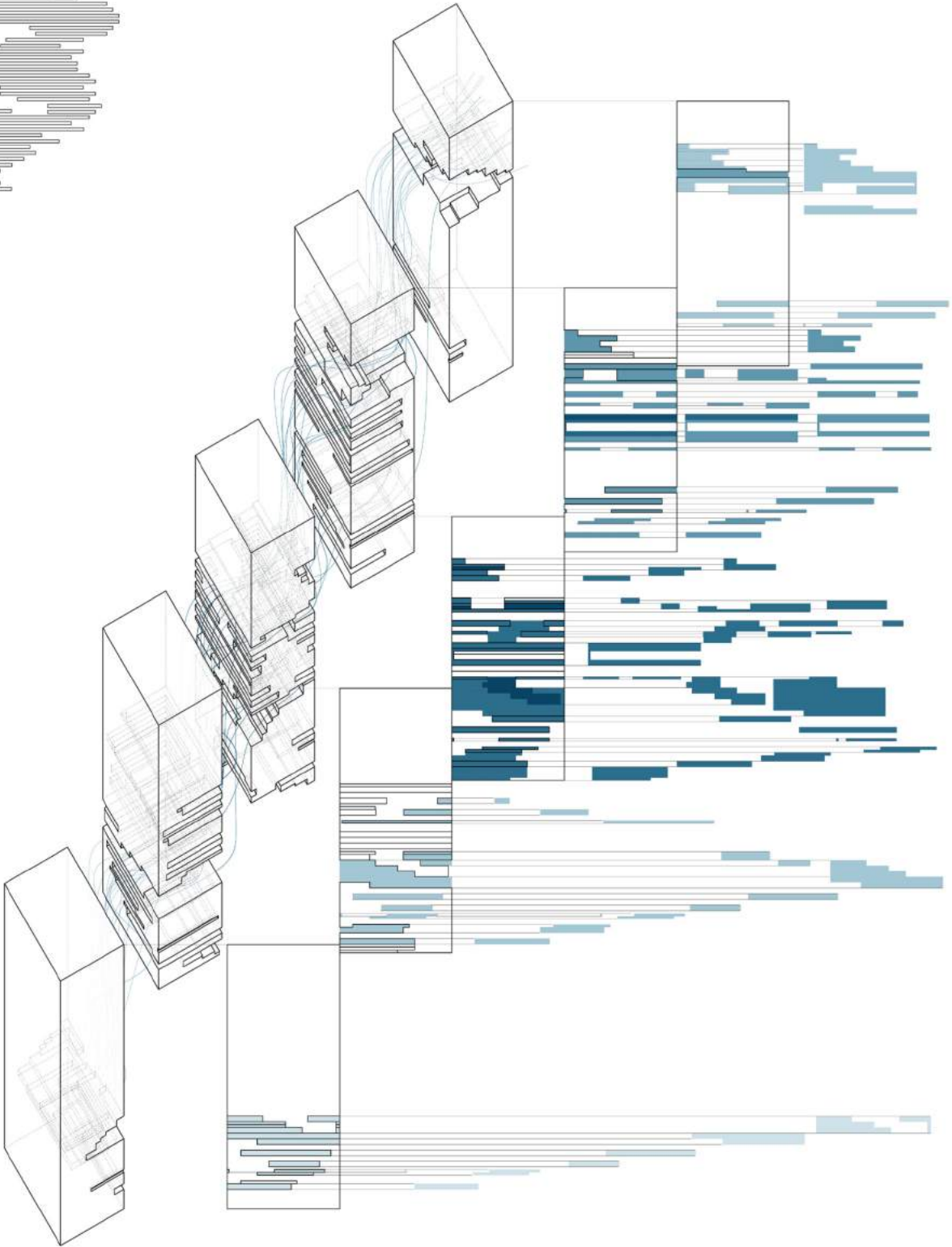
floor plans + site and detailed section

DRAWING EXPLORATION OF PRIMITIVE FUTURE HOUSE

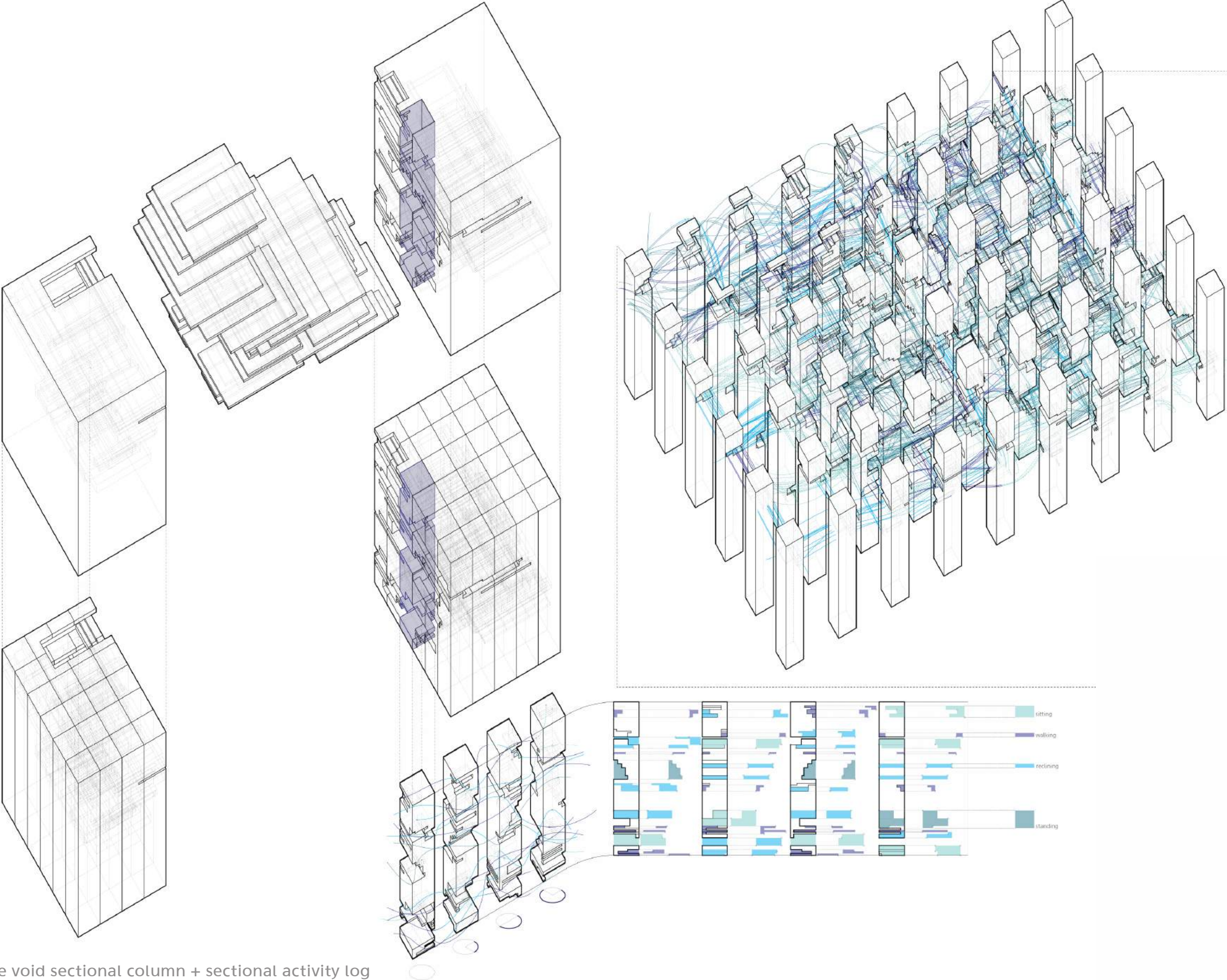
Sou Fujimoto’s Primitive Future House is a study on pushing the envelope between inside and outside spaces while studying the house as a community, a city, and nature. These generative drawings explore what makes a space habitable.



plan oblique of largest void spaces



analytical sectional study of habitable spaces



inverse void sectional column + sectional activity log

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