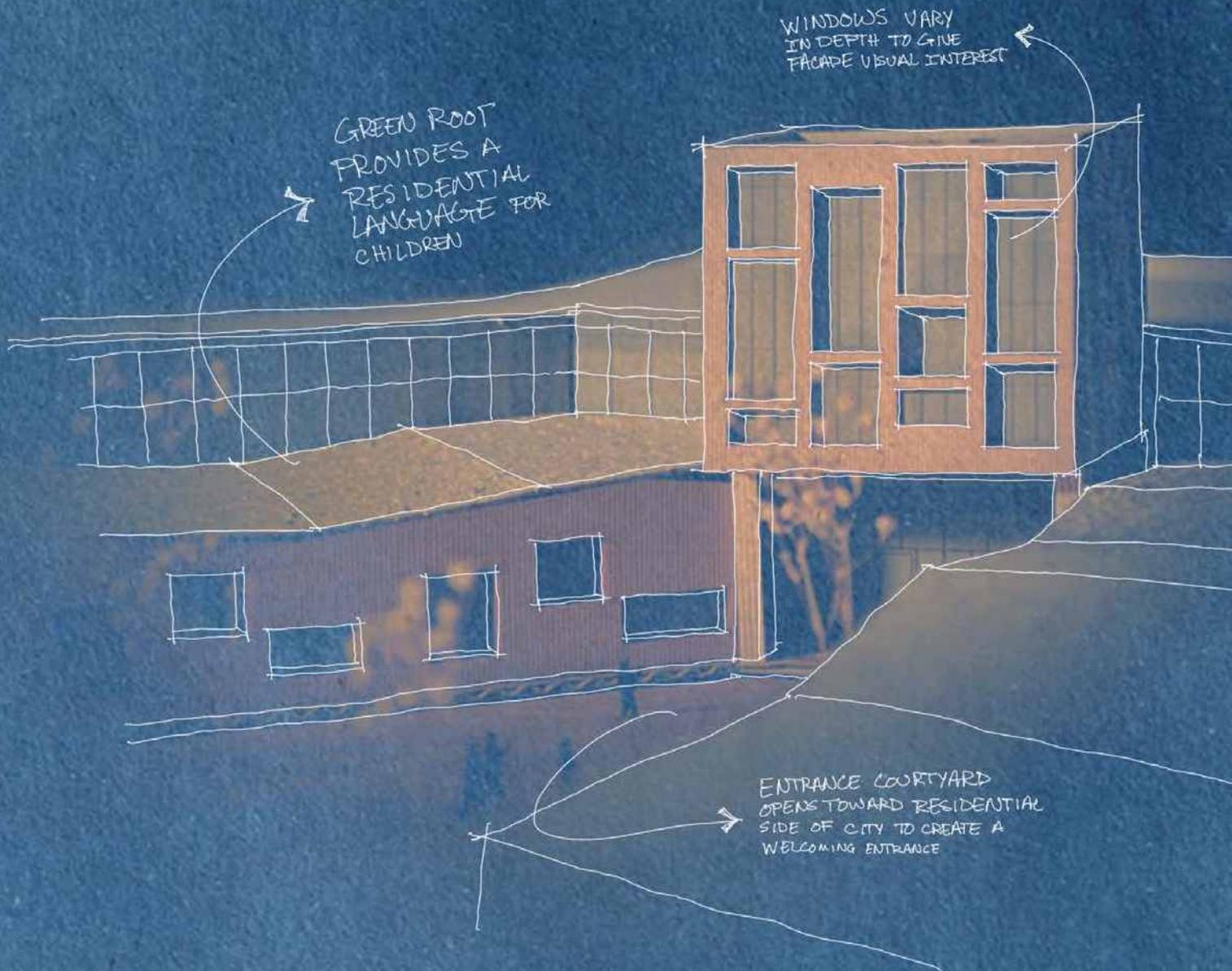


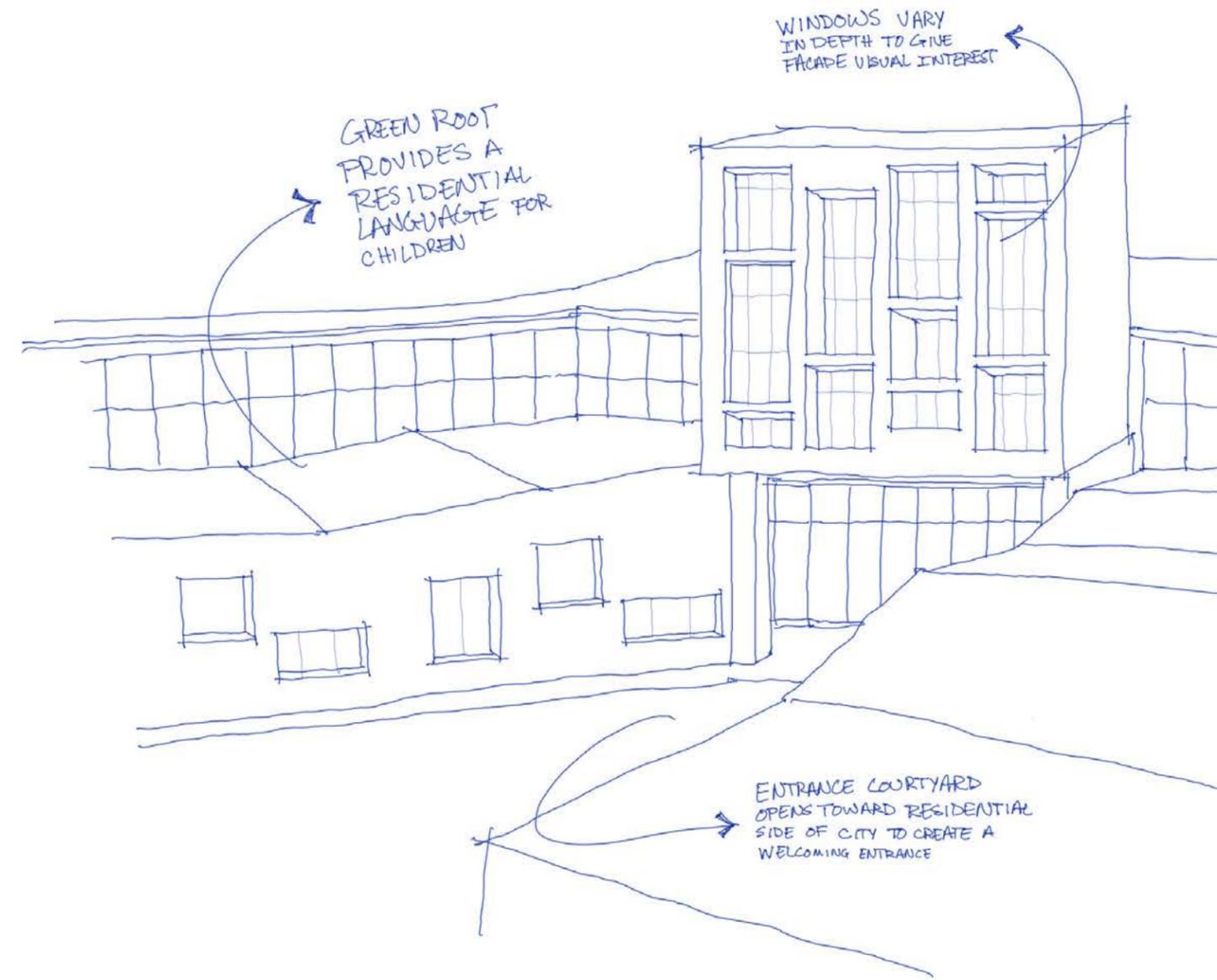
Drew Haley Smith

Architecture Portfolio 2018-2023



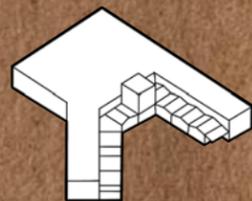
Drew Haley Smith

Architecture Portfolio 2018-2023



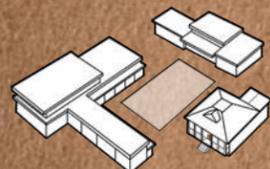
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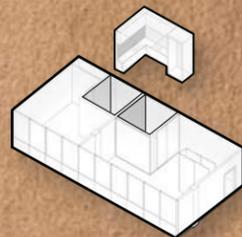
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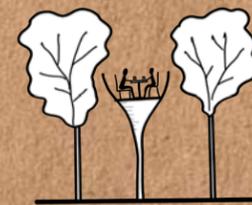
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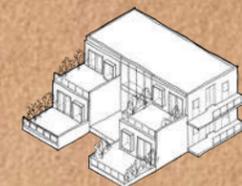
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Fun exploration projects

Resume

Education

Auburn University:
 Bachelor of Architecture
 Bachelor of Interior Architecture
 Minor in Architectural History
 Cumulative GPA: 4.0

Skills

AutoCAD, Revit, Rhino3D, Enscape, Lumion, Twin Motion, Adobe Creative Suite, Procreate, Morpholio Trace, Sketching, Physical Models

Awards

Spirit of Auburn Founders Scholarship (Fall 2017)
Lois F. and James Turnipseed, Jr. Fund for Excellence (Fall 2020)
J. Barnett Woodruff, Sr. Endowed Scholarship (Fall 2019)
Friends of Will Sturges Fund for Excellence (Fall 2021)

Work Experience

Chapman Sisson Architects (Winter 2022)
 Assisted with presentation layouts, client meetings, and markups.

To Be Done Studio (Winter 2021)
 Assisted with site documentation and schematic design concepts for a community center in rural Midway, Alabama.

Foshee Architecture (May 2021–Aug. 2021)
 Gained experience hand-sketching designs and details.
 Gained experience researching code and marketing.

Seay Seay and Litchfield Architects (May 2020–Dec. 2020)
 Assisted with construction documents, detail drawings, product research, client meetings, and design presentations.

Chick-fil-A in TigerTown (2016–2018)
 Received employee of the month award (October 2017).
 Gained time-efficiency, teamwork, and problem-solving skills.

Academic Experience

Teacher's Assistant, Auburn University (Fall 2022)
 History of World Architecture I
 History of Urban Architecture II

CADC Ambassador, Auburn University (2019–2022)
 Assisted in recruiting potential students for the college and organizing college-sponsored events around campus.

OSHA Certified (Spring 2021)
 Completed OSHA Certification in partial fulfillment of the requirements for attending Rural Studio

Rural Studio, Auburn University (Spring 2021)
 Assisted a team of nine students build a house, design, build, and install cabinets, and learn about southern vernacular architecture.

AIAS Mentorship Director, Auburn Chapter (2021–2022)
 Assisted lower-classmen with finding mentors and resources.

AIAS FBD Fundraiser, Auburn Chapter (2019)
 Assisted with fundraising efforts for the Freedom by Design Chapter.

Honors

Dean's List (2018–present)
CADC Book Award (Spring 2022)
DBIA Team Competition (Fall 2022)
Tau Sigma Delta (2021–present)
 Honor Society in Architecture and Allied Arts

Teams

Design-Build Institute of America (2022)

Team Members:

Drew Haley Smith - Architect
 Natalie Nash - Project Executive
 Justin Jolley - Project Manager
 Grace Herazy - Assistant Project Manager
 Owen Pifer - Senior Superintendent
 Calvin Nowell - Preconstruction Manager

Team Responsibilities:

Our design-build team was challenged to design an Avacado Storage Facility in Laredo, Texas for a regional DBIA competition.

Elements of Interiors II (2022)

Team Members:

Drew Haley Smith
 Meagan Mitchell
 Ambar Ashraf
 Julie Dideo
 Naomi Toni-Alabi

Team Responsibilities:

Our team prepared lecture material for a class discussion based on a controversial reading written by several philosophers and architects.

Rural Studio Cabinet Design (2021)

Rural Faculty:

Steve Long
 Chelsea Elcott

Design and Book Team:

Steve Long (Faculty Advisor)
 Drew Haley Smith (Coordinator)
 James Foo (Producer)
 Kirby Spraggins (Producer)

Assembly Team:

Drew Haley Smith
 Austin Black
 Sadie McIntyre
 Logan Lee
 Ashley Wilson
 Juyeon Han
 Wendy Webb

Rural Studio Ophelia's Home (2021)

Rural Faculty:

Emily McGlohn
 Chelsea Elcott

Interiors Team:

Drew Haley Smith
 Sadie McIntyre
 Austin Black

Exteriors Team:

Ashley Wilson
 Juyeon Han
 Logan Lee

MEP Team:

James Foo
 Kirby Spraggins
 Wendy Webb

Team Members:

Drew Haley Smith
 James Foo
 Anna Graben
 Kirby Spraggins

Team Responsibilities:

Our team was challenged to create a cohesive design by combining all four of our very different, individual designs.

Team Members:

Reagan Eiland - Team Leader
 Drew Haley Smith - FBD Fundraiser
 Benjamin Wilcockson -

Freedom By Design (2021)

Team Members:

Naomi Toni-Alabi - Team Leader
 Drew Haley Smith
 Alexis Warner
 Samuel Grover
 Lainey Bouiver

Team Responsibilities:

Our team created a masterplan for an abandoned rural site in Alabama.

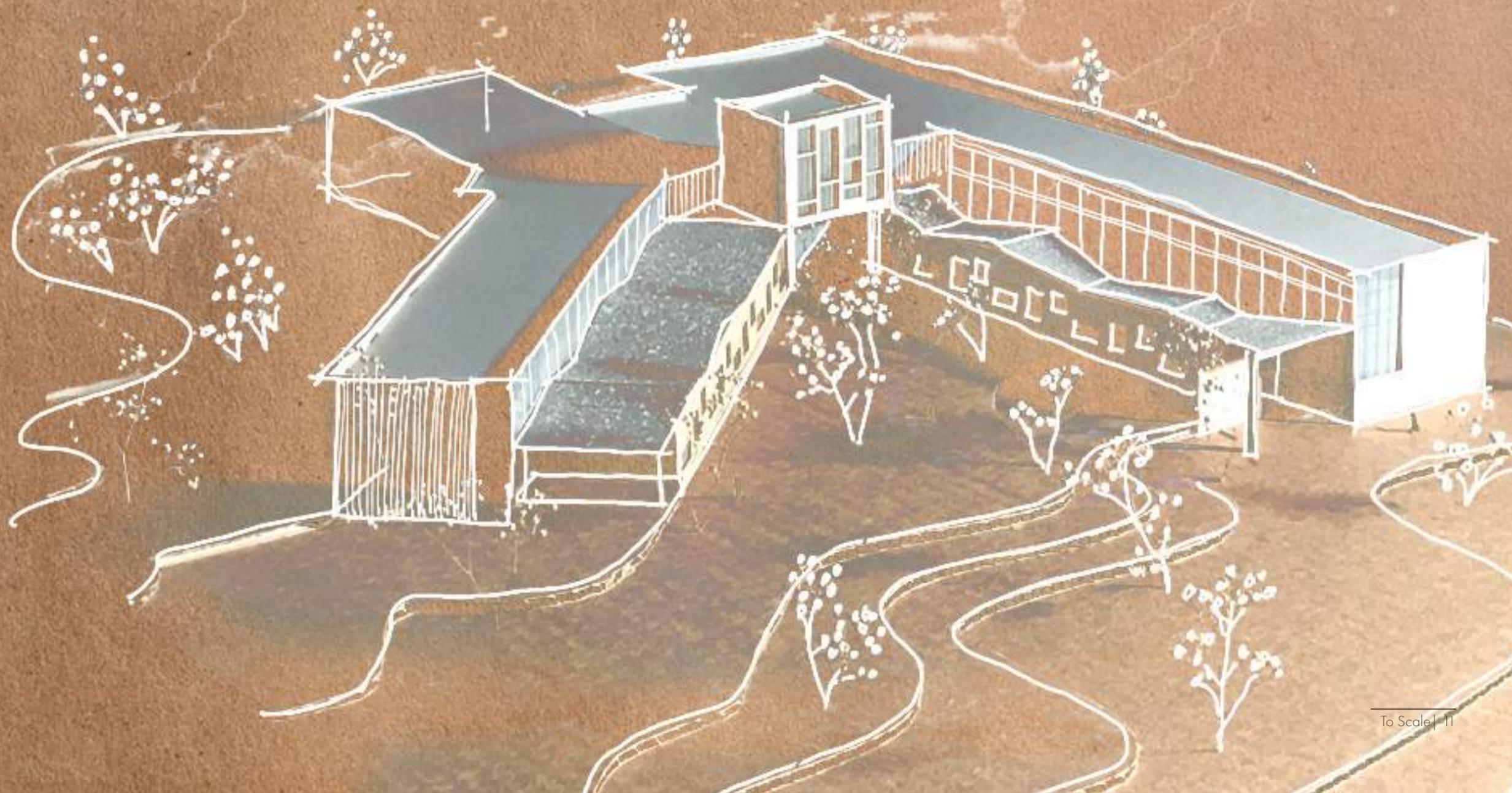
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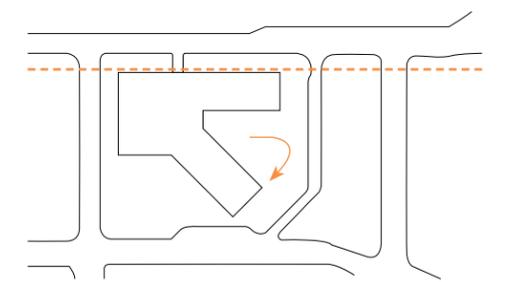
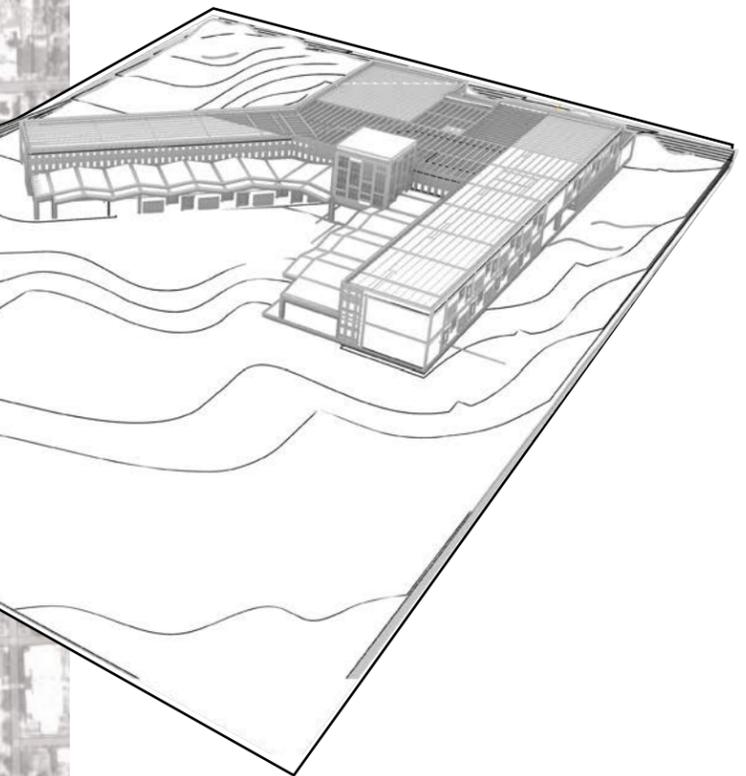
To Scale

Diminishing Architecture to a Child's Level

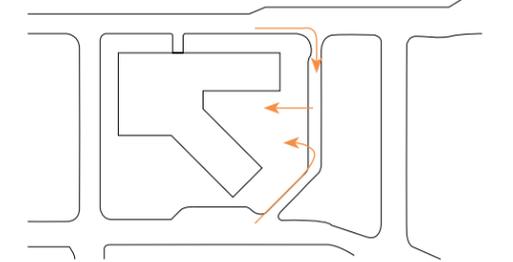
Project: Elementary School
Type: New Construction
Semester: Spring 2022
Location: Montgomery, Alabama
Size: 91,618 Square Feet
Faculty: David Hinson

This project explores how a building can be designed to adapt to the scale of a child and be sustainably built and maintained. Various site strategies were employed to ensure this and to create a welcoming and unthreatening entrance for young children. Challenges included addressing a steep topographic slope, traffic circulation and analysis, and efficiently incorporating mechanical and structural systems.





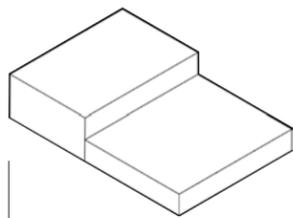
Building holds street edge to provide protected exterior play areas. Southern wing opens toward residential side of city for welcoming entrance.



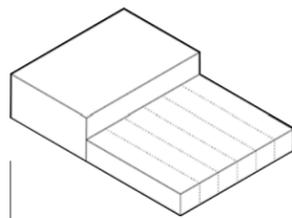
Car circulation does not interfere with pedestrian or bus circulation. All students share the same entrance.



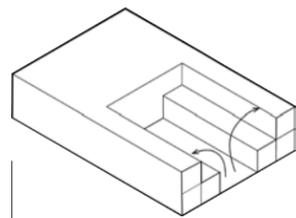
Classroom wings open like outstretched arms towards residential side of the city to creating a welcoming entrance for students.



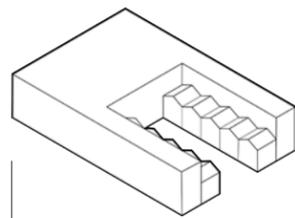
Topography
Topography determined placement of communal and classroom areas.



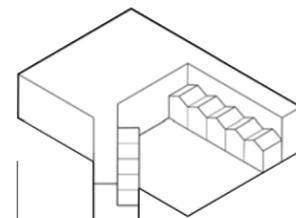
Orientation
Classroom wings organized in rows for optimal northern light.



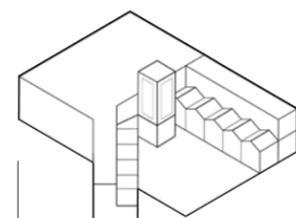
Stacking
Classrooms stacked to diminish scale of building at ground level.



Residential
Green roof creates a familiar residential language.

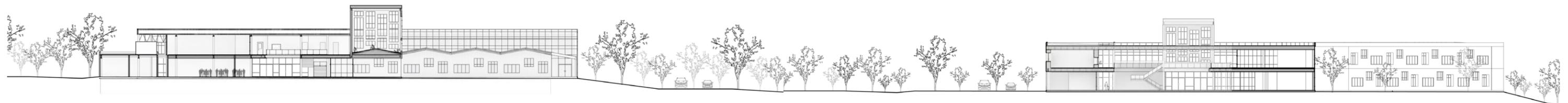
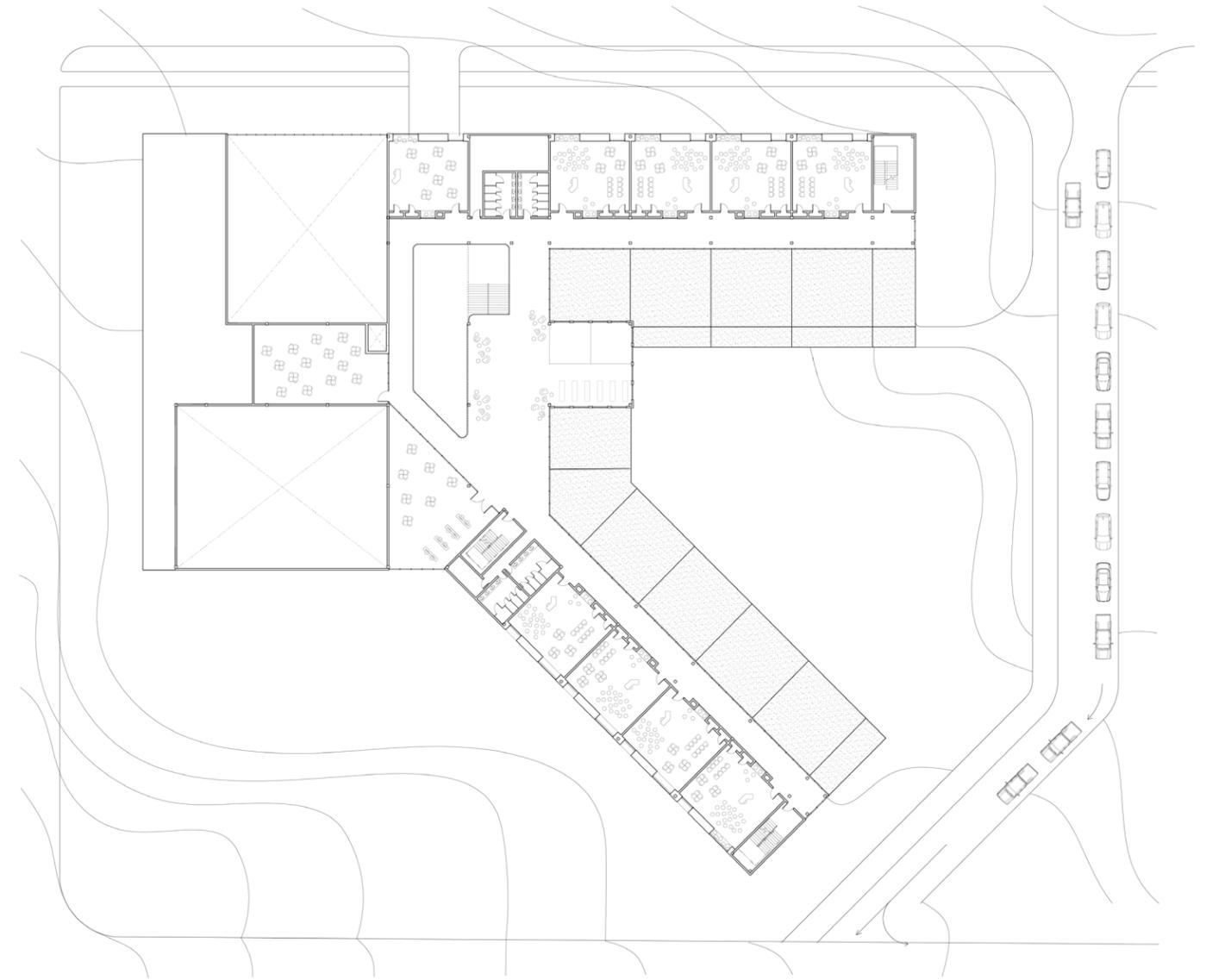
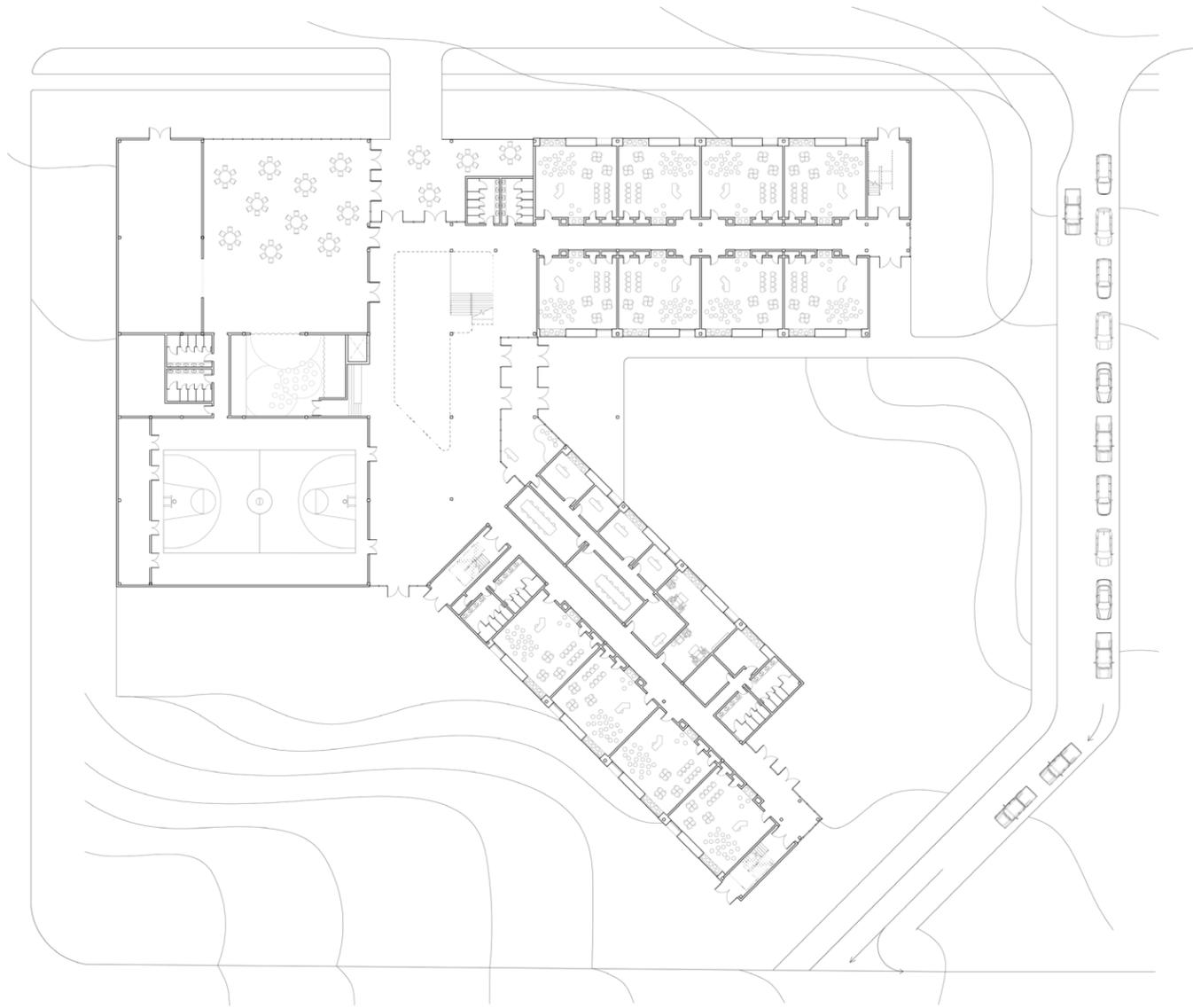


Opening
Southern wing opens toward residential side of city



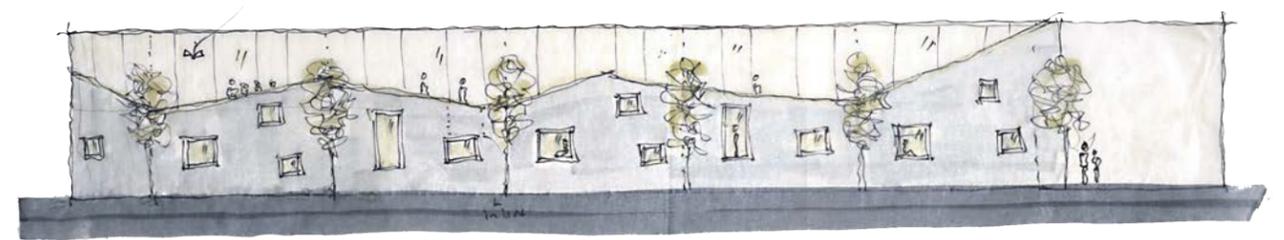
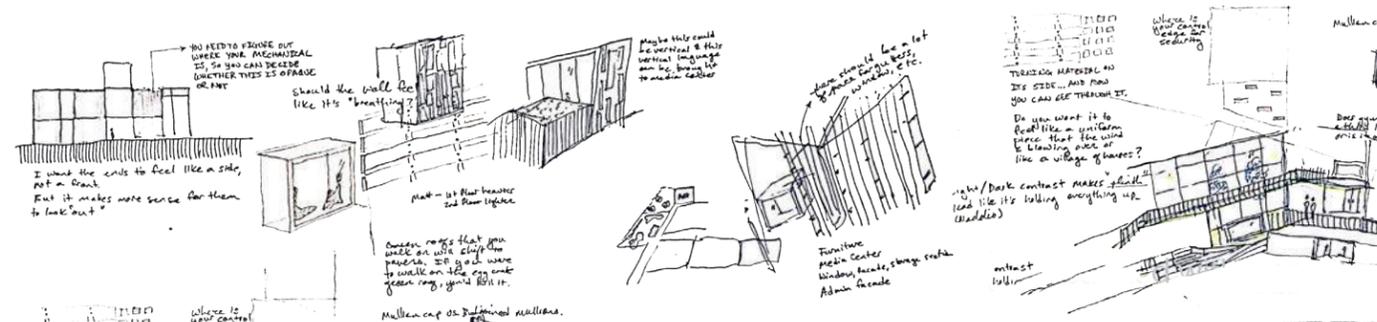
Landmark
Tower creates an iconic and welcoming entrance for school.



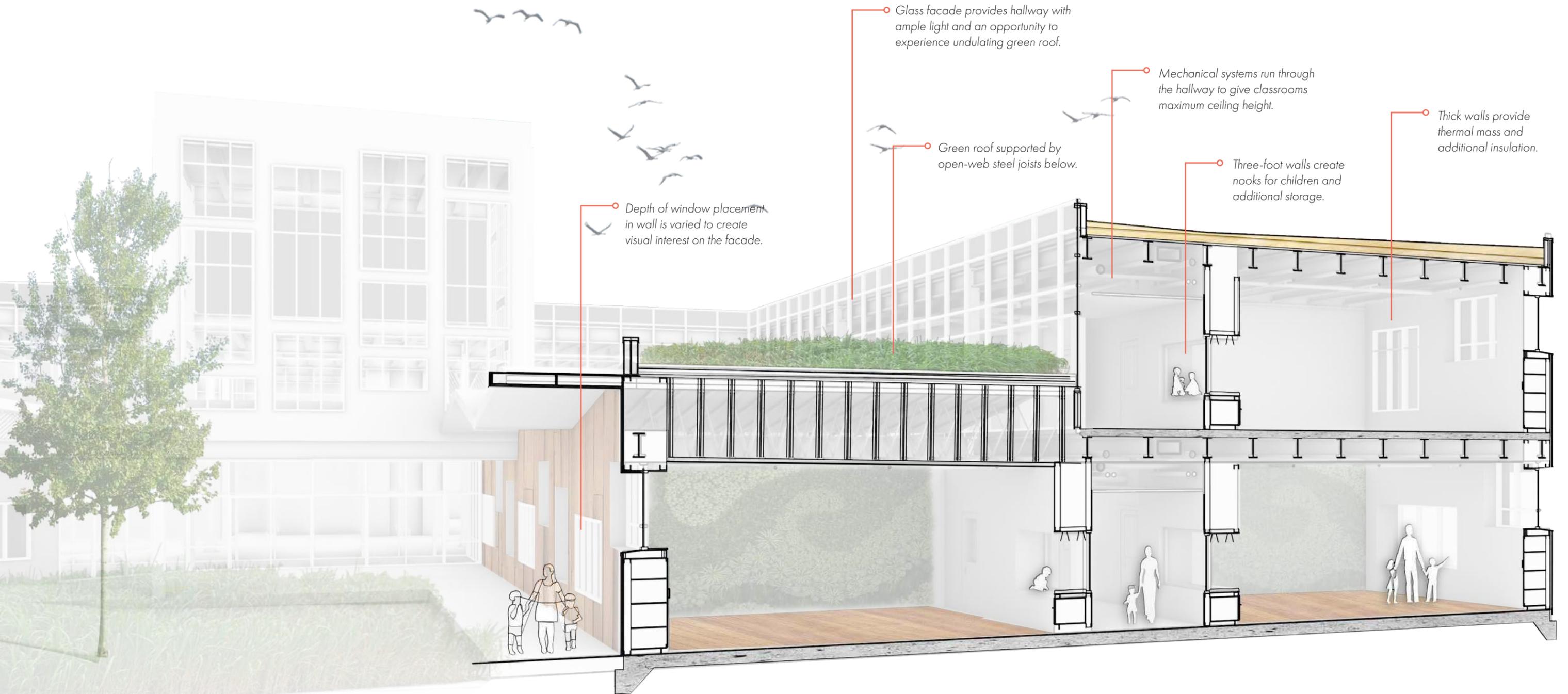


Longitudinal section showing how scale is diminished on the exterior.

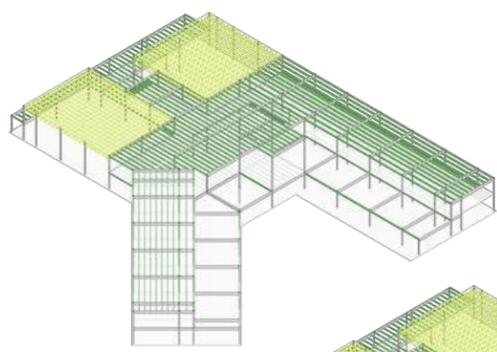
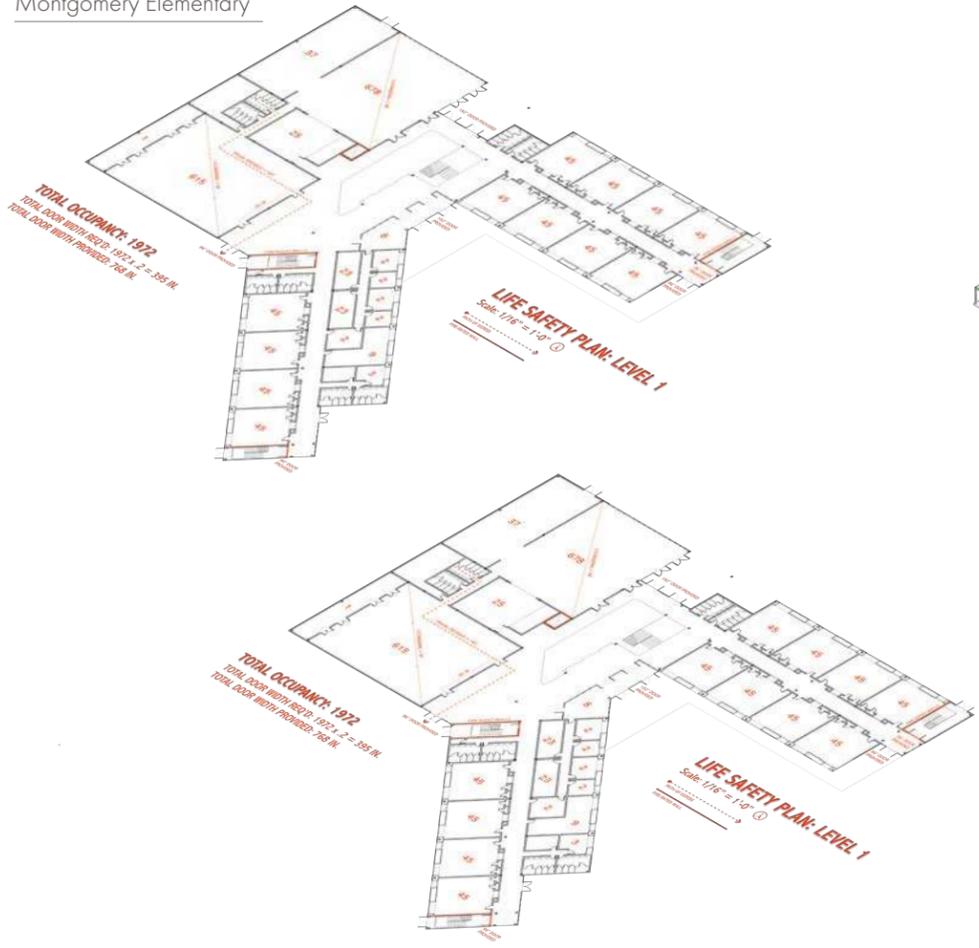
Latitudinal section showing how scale is diminished on the interior.



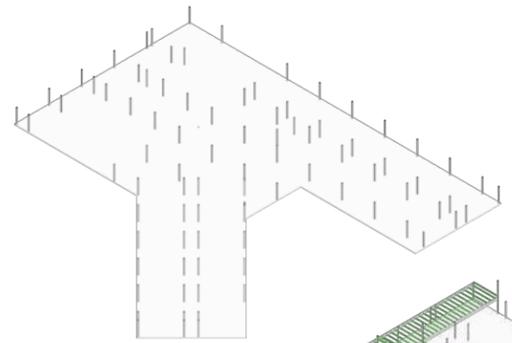
Undulating green roof creates residential language at ground level for young children. It also creates a pleasant circulation experience for students in the upstairs classrooms.



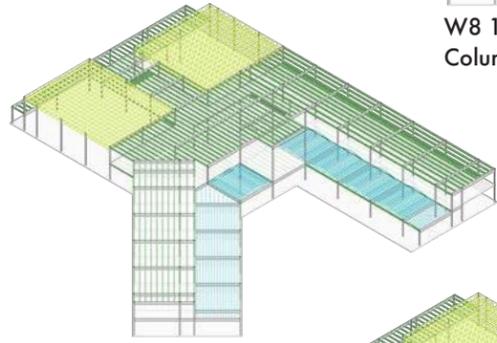
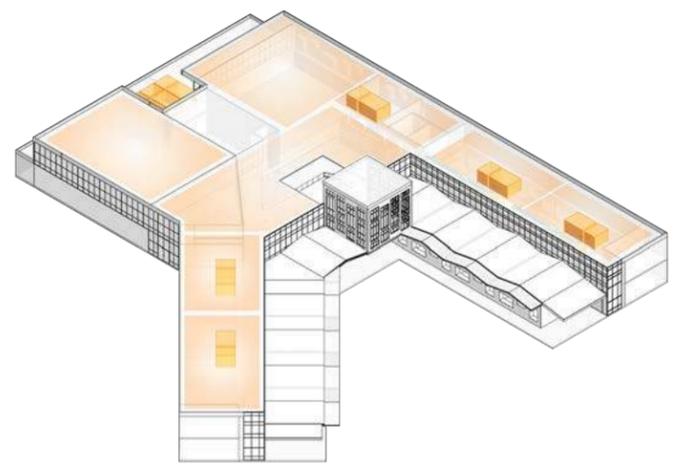
Detail section perspective showing classroom spaces, mechanical, and structural systems.



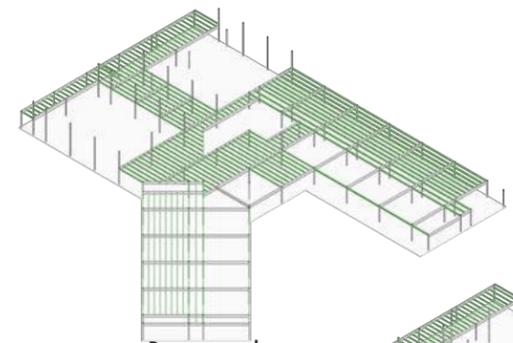
Open Web Steel Joists



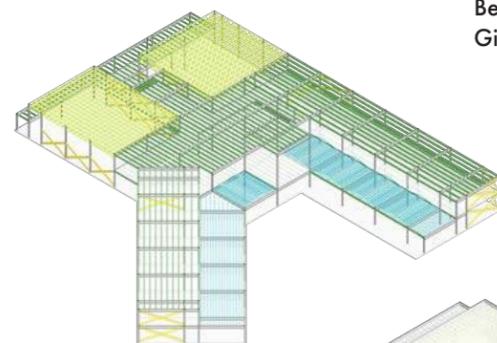
W8 14' Columns



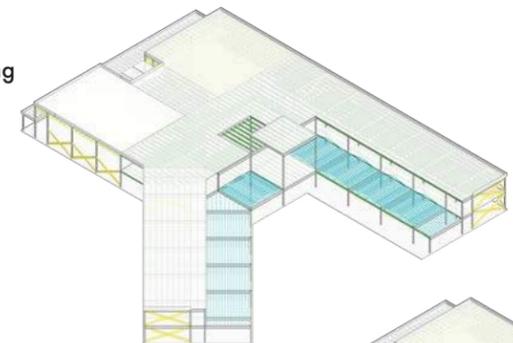
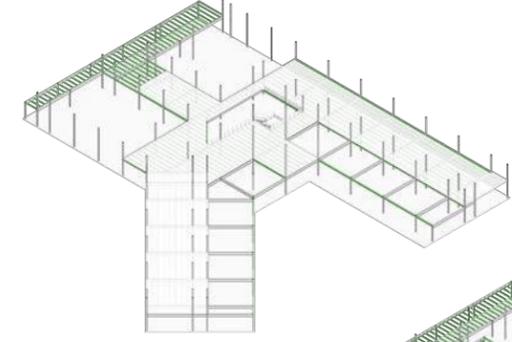
Cold-form Steel Trusses



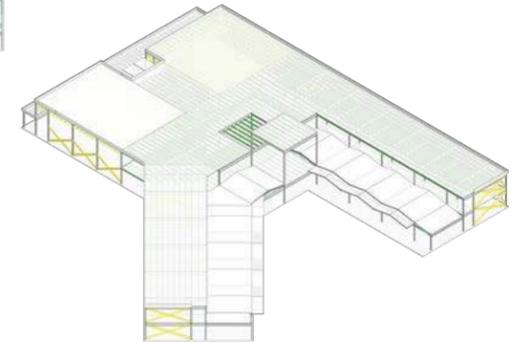
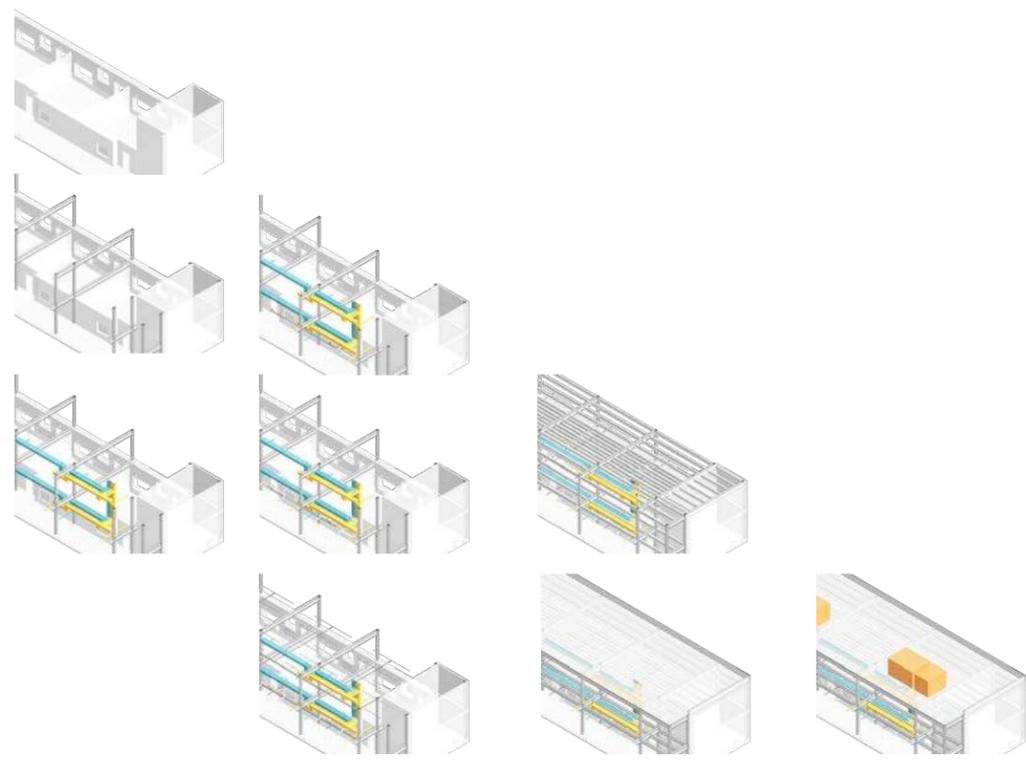
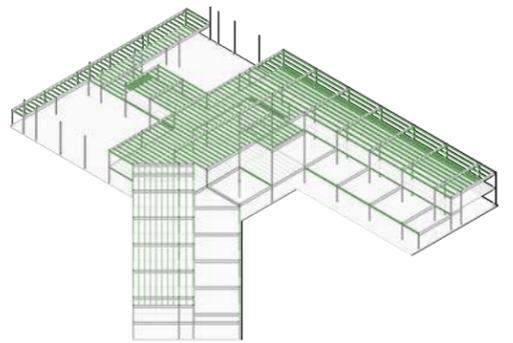
Beams and Girders



Cross-Bracing



Main Roof System



Green Roof System

02

To Introduce

Acknowledging Historical Context

Project: Olli Center Campus
Type: Historic Preservation
Semester: Spring 2020
Location: Auburn, Alabama
Size: 15,000 Square Feet
Faculty: Deborah Ku

This historic preservation project explores how to properly introduce 15,000 square feet of program on a site with two historic structures.





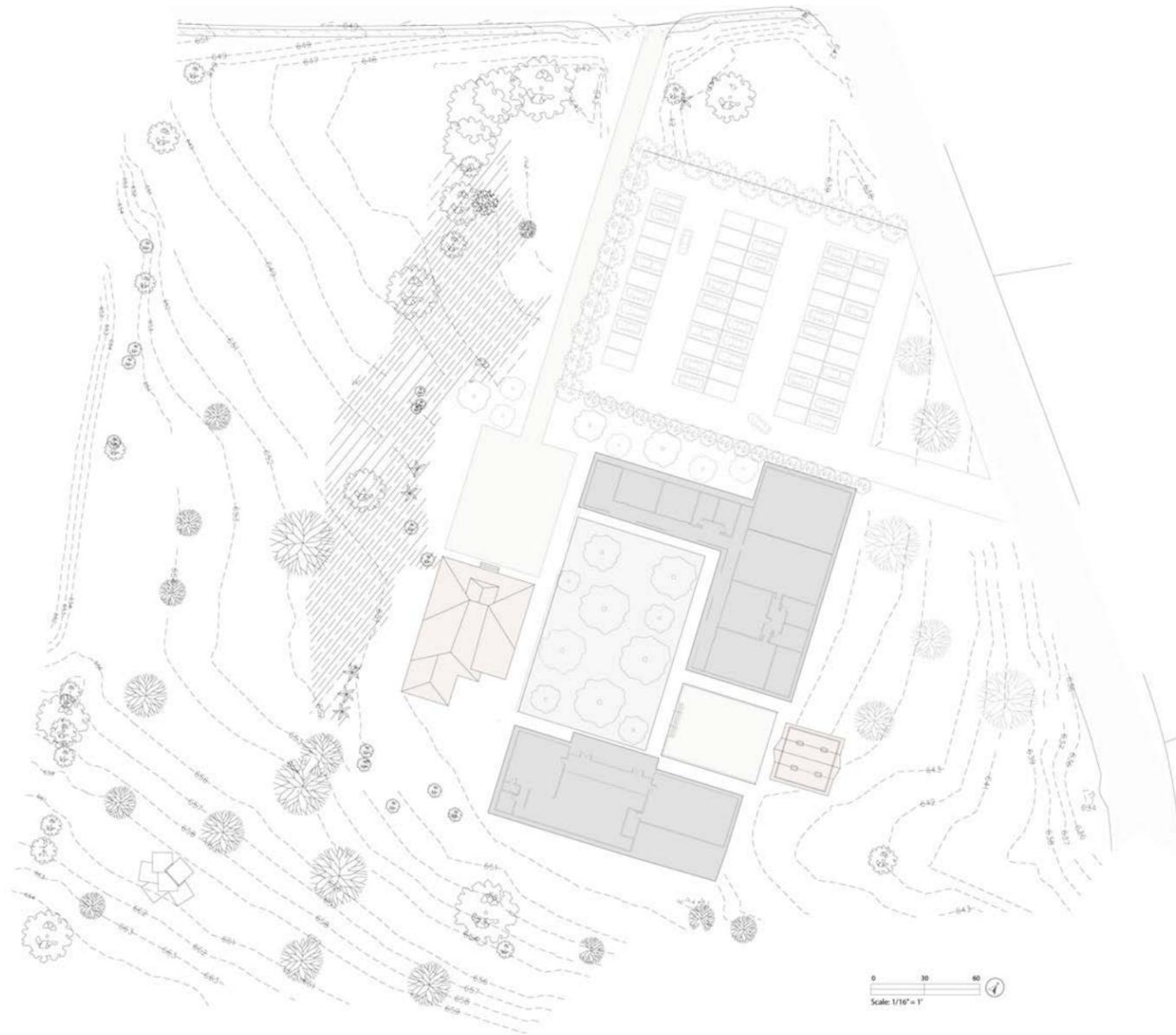
Section showing how the site's natural topography was used to determine the location of larger programmatic elements such as the auditorium.



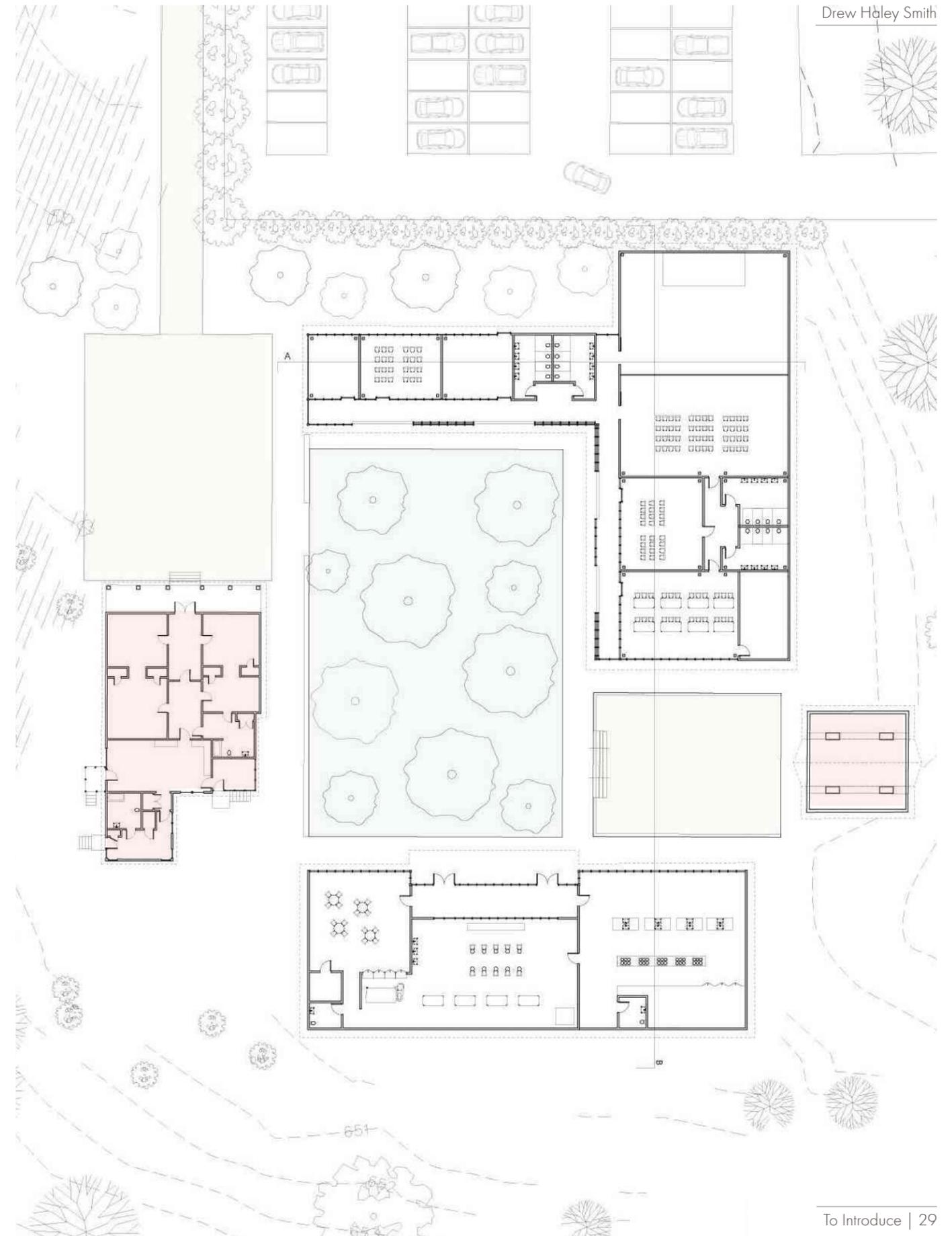
Image of Sunny Slope built c. 1857

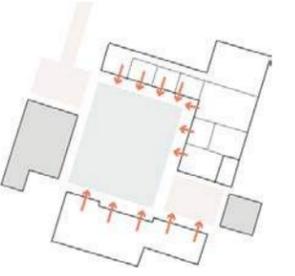
The goal of this project was to prevent the new program from overpowering the scale or visual appeal of the existing historic structures. Therefore, preserving the line of sight from the street to Sunny Slope was prioritized.



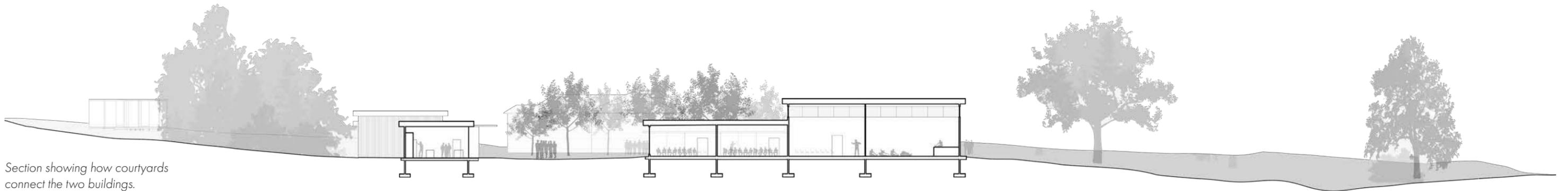


Another important concept was to create a sense of community on the campus. This was accomplished by designing two buildings separated by program, but connected by a system of three courtyards.





Each classroom has both visual and physical access to the courtyards (see diagram above). This access is provided by a double-sided glass hallway which wraps the perimeter of the buildings (see left). This hallway also provides an additional barrier between the classrooms and the outdoor elements by shading the classrooms from harsh western and southern light. On pleasant days, the glass doors can be slid completely open for fresh air and seamless access to courtyards.



Section showing how courtyards connect the two buildings.



Nighttime image showing new building's complimentary relationship to Sunny Slope.

03

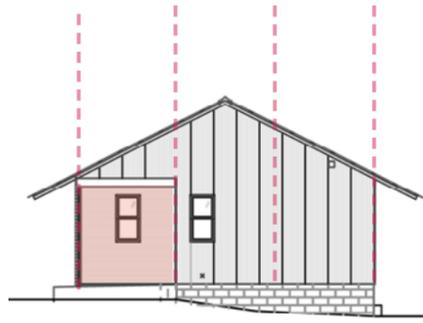
To Build

Harmonizing the Practical with the Ideal

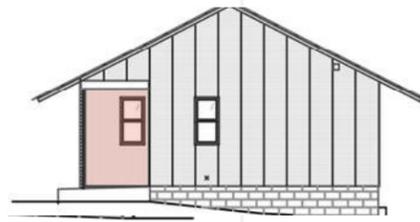
Project: Ophelia's Home, Rural Studio
Type: Design-Build
Semester: Spring 2021
Location: Newbern, Alabama
Size: 588 Square Feet
Faculty: Emily McGlohn, Steve Long

This design-build project was designed to meet the specific needs of our client without sacrificing the proportions or aesthetics of the exterior. The eye is tricked into reestablishing proportions by the use of color, details, and "dazzle camouflage" design explorations.

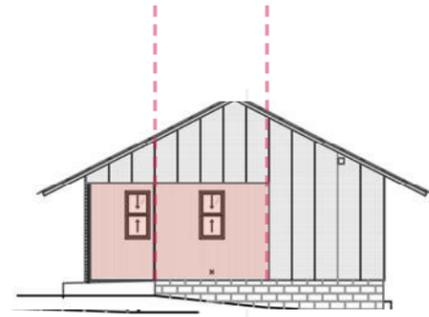




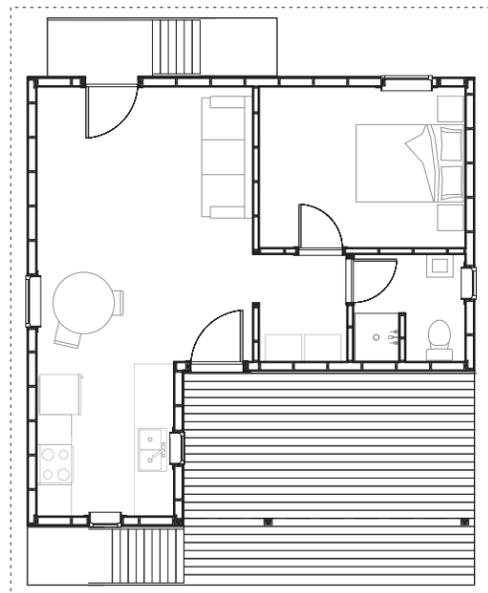
Ideal Proportions
Joanne's Side Elevation



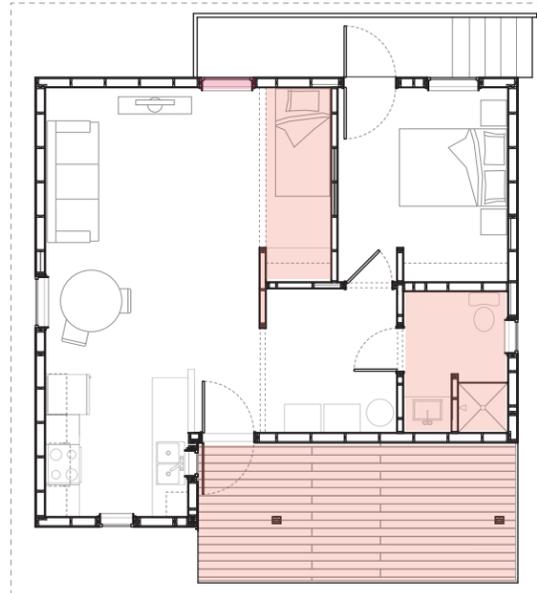
The Problem
Ophelia's Old Elevation



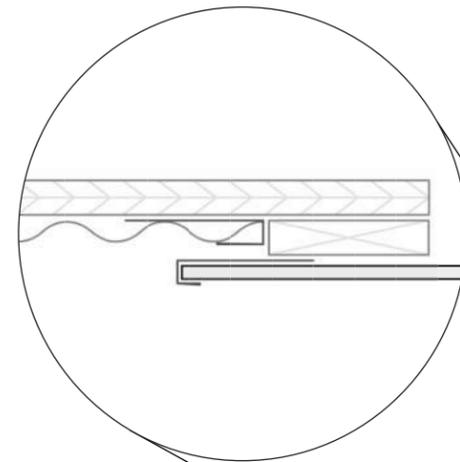
The Solution
Ophelia's New Elevation



Joanne's Floor Plan
Scale: 3/32" = 1'-0"



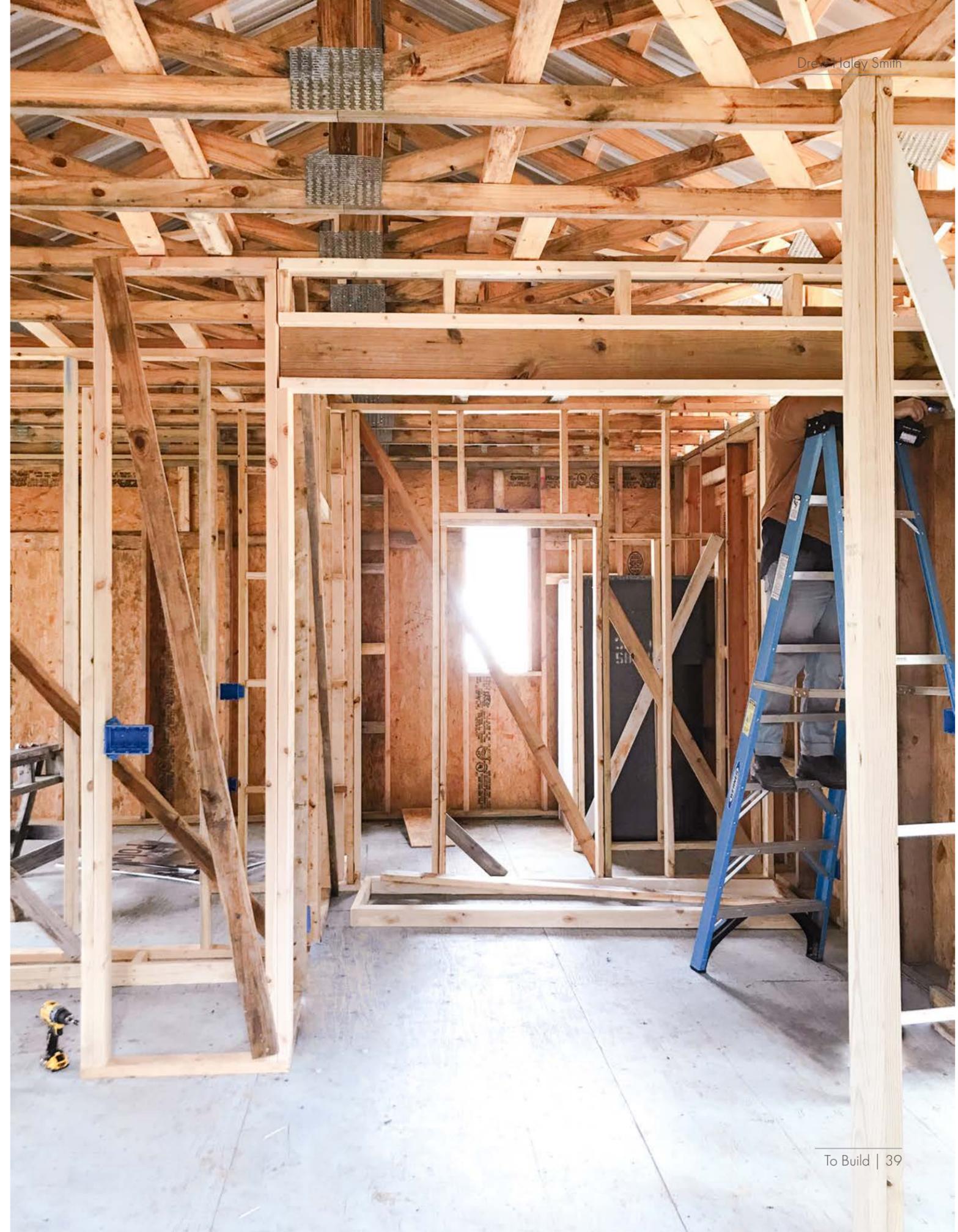
Ophelia's Floor Plan
Scale: 3/32" = 1'-0"



The first set of tasks completed by the Interiors team included framing and erecting interior walls, installing blocking, installing insulation, and making on-site design improvements. The second set of tasks included painting, floor installation, cabinet installation, and budgeting.



Several modifications were made on site. For example, a casing was built over the nook to provide a more formal separation of the spaces (right). The nook's fin wall was also extended to provide more storage space and privacy for the utility room. These decisions were made by creating full-scale mockups to analyze the space in full scale (left).





Because our client needed a wheelchair-accessible entrance, we created a 16' concrete ramp with a steel grate for rainwater runoff. Three cubic yards of concrete meant formwork needed to be extremely fortified.

1. Leveling and Formwork



2. Cubic Rebar Support



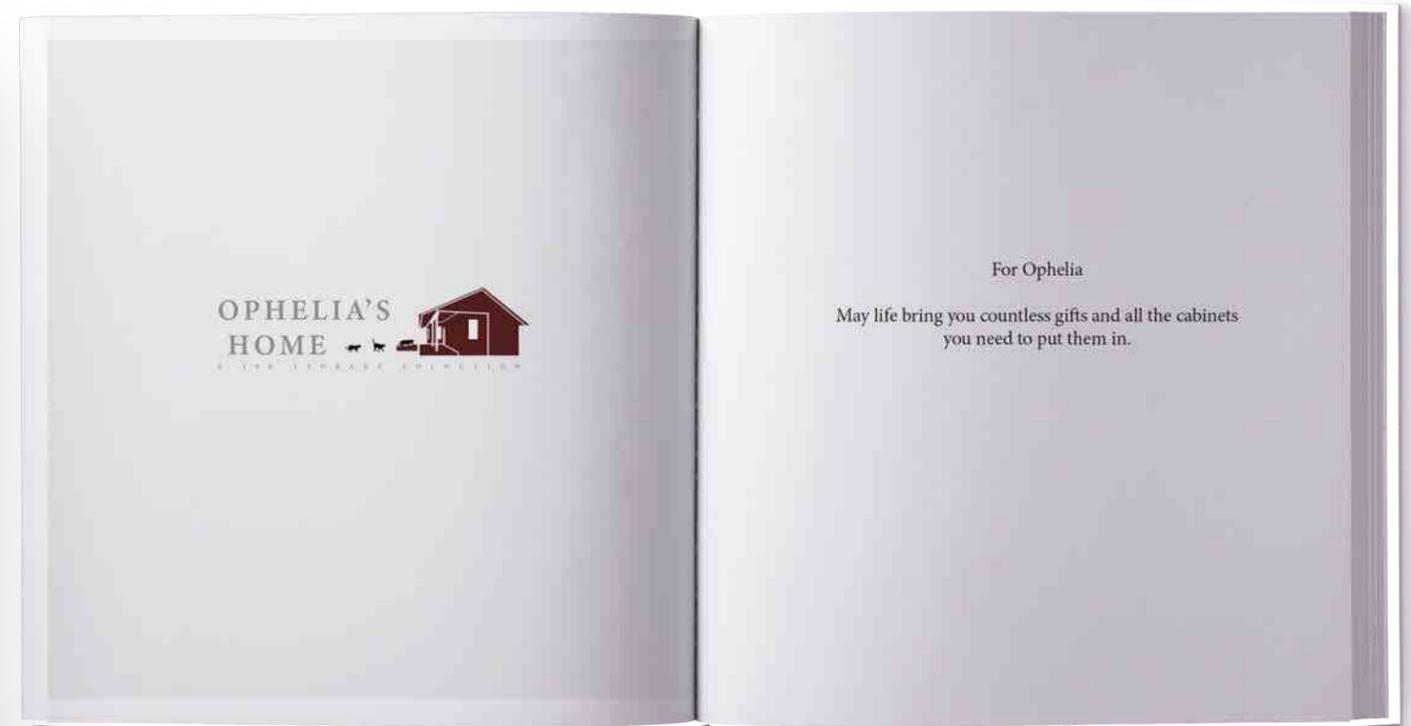
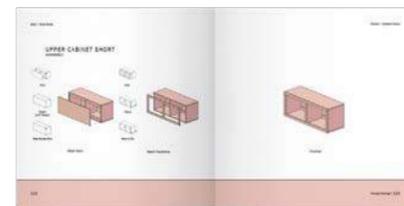
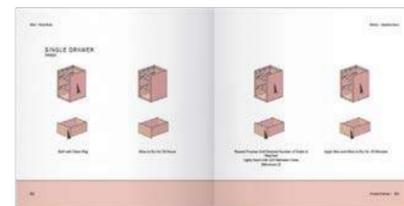
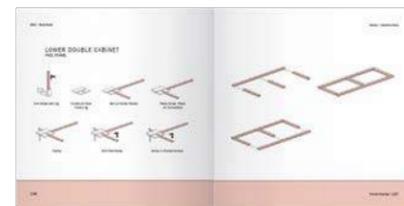
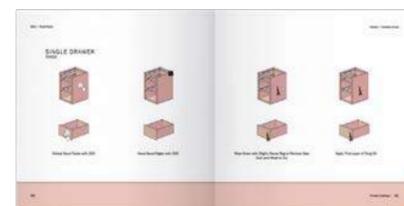
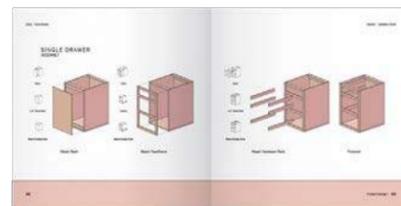
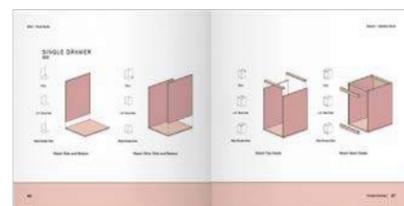
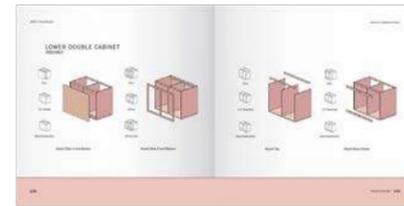
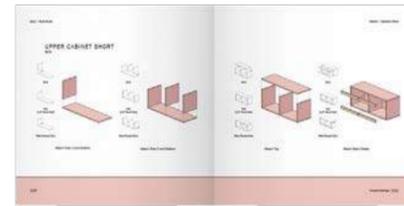
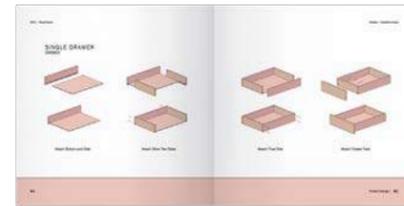
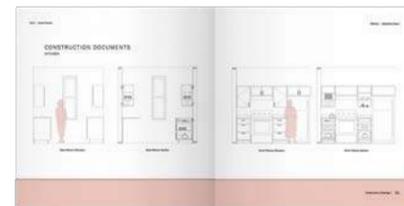
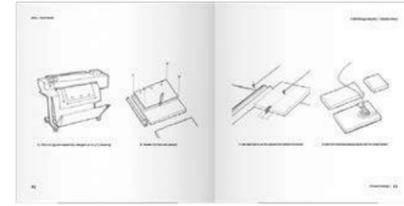
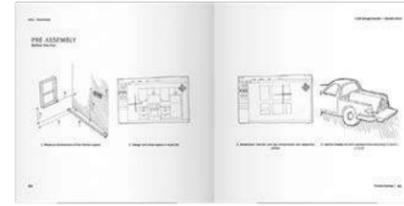
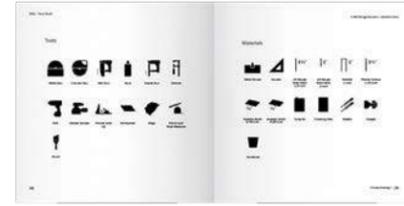
3. Bracing and Prep Work



4. Pouring and Finishing

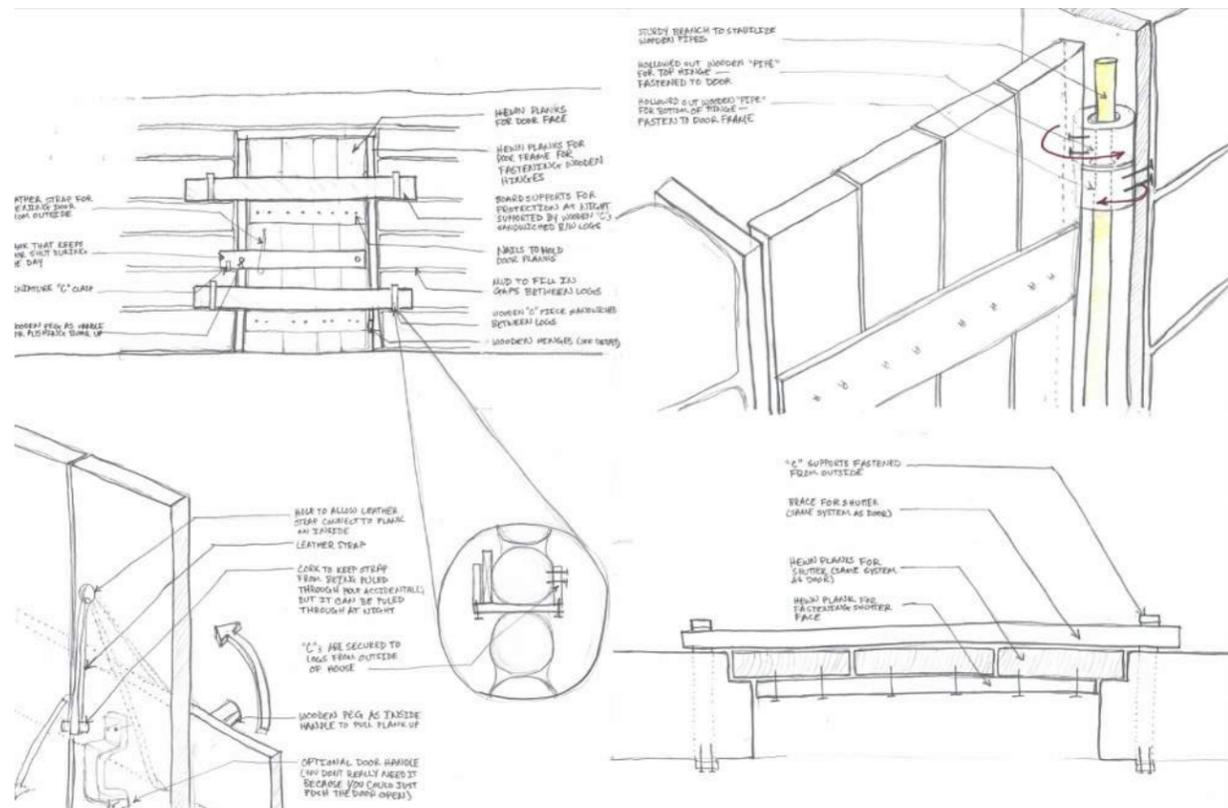
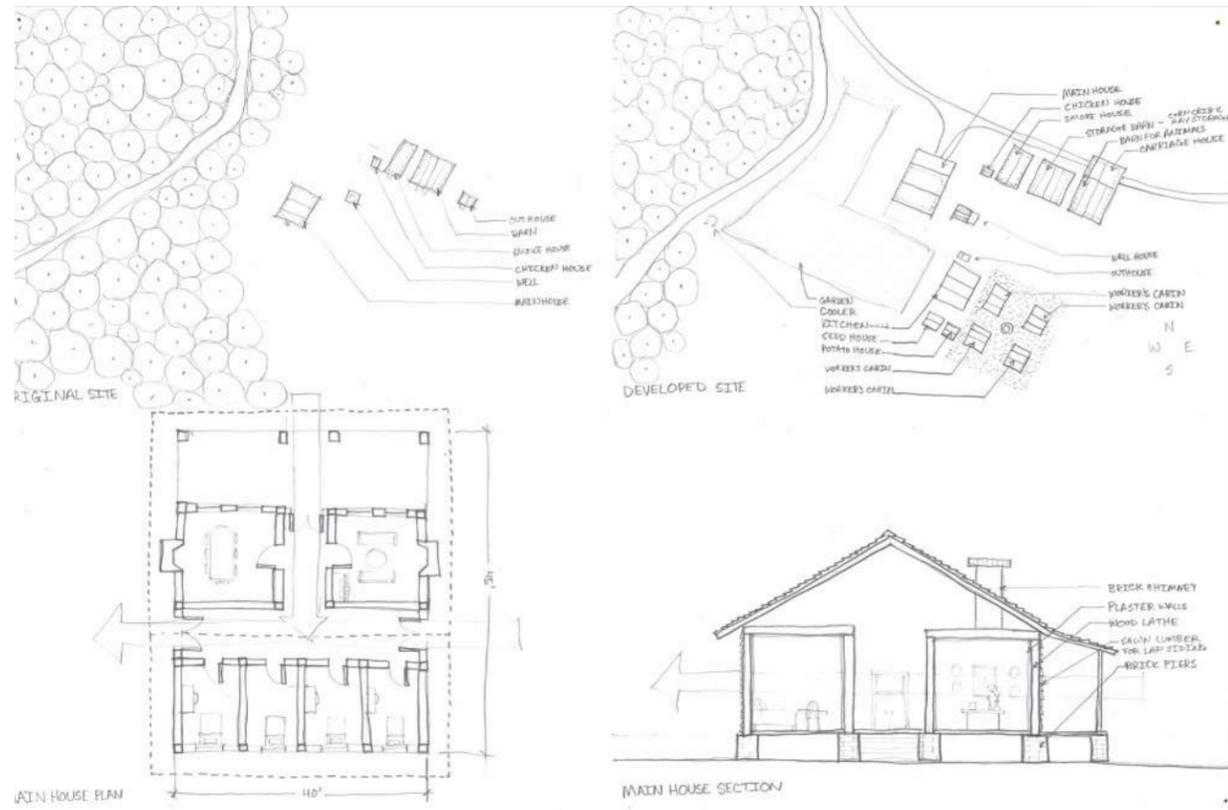


Floating concrete after pour.





Our team designed, built, and installed a standardized set of high-quality cabinets for the entire home.



04 To Swing

Flexible Spaces and Soft Thresholds

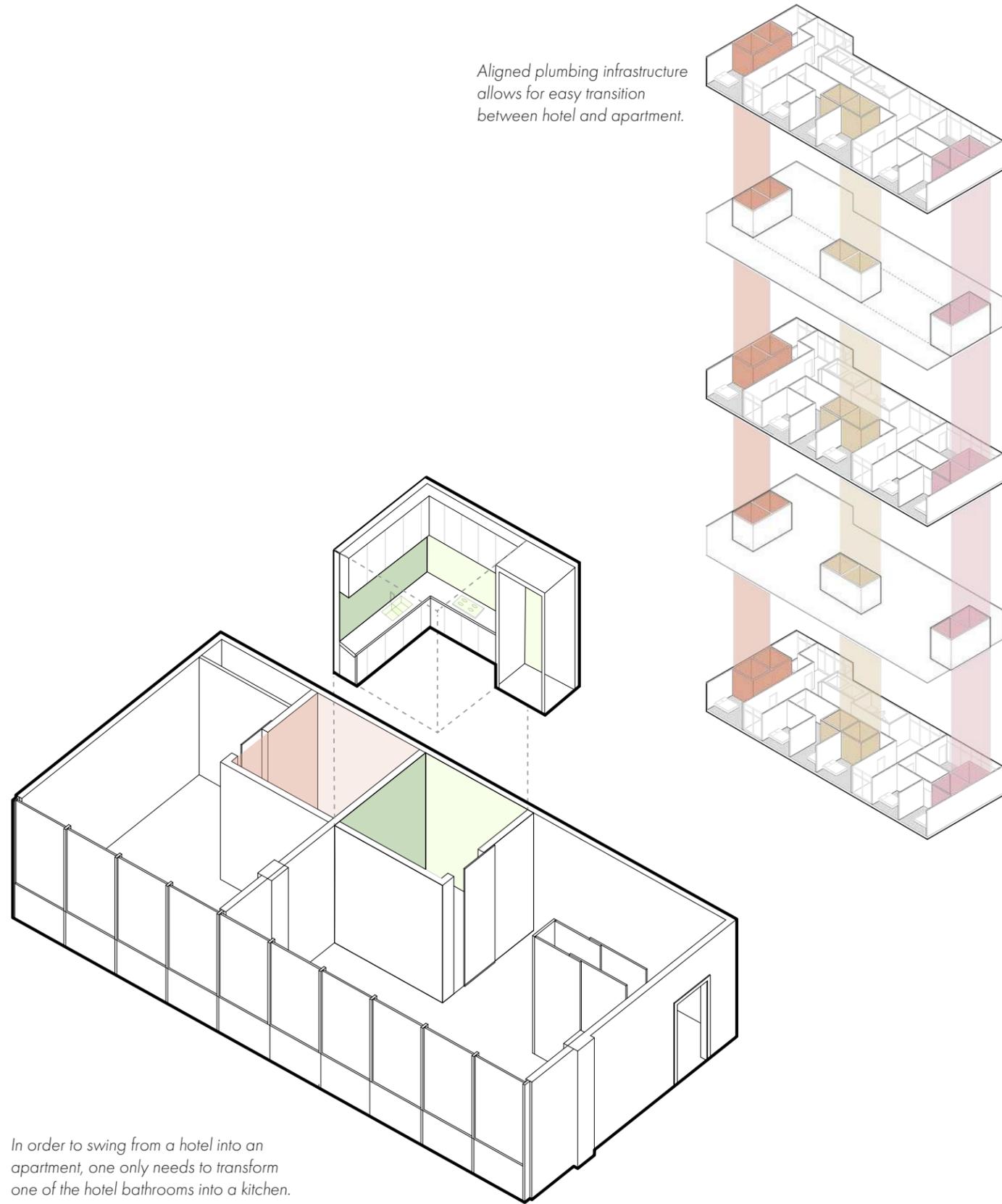
Project: Hotel/Apartment
Type: Adaptive Reuse
Semester: Summer 2022
Location: Montgomery, Alabama
Size: 17,735 Square Feet
Faculty: Kevin Moore, Rebecca O'Neal

This adaptive reuse project explores how a hotel can easily be transformed into an apartment by simply converting one of the hotel bathrooms into a kitchen. This project also explores the possibility of creating "soft thresholds" between the outside world and the most private spaces.





Aligned plumbing infrastructure allows for easy transition between hotel and apartment.



In order to swing from a hotel into an apartment, one only needs to transform one of the hotel bathrooms into a kitchen.

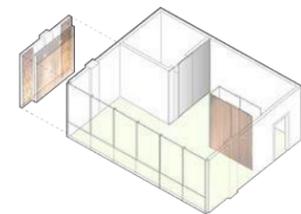


Hotel Floor Plan
Scale: 1/16" = 1'-0"



Apartment Floor Plan
Scale: 1/16" = 1'-0"
Each floor can swing from six hotel rooms to three apartments.

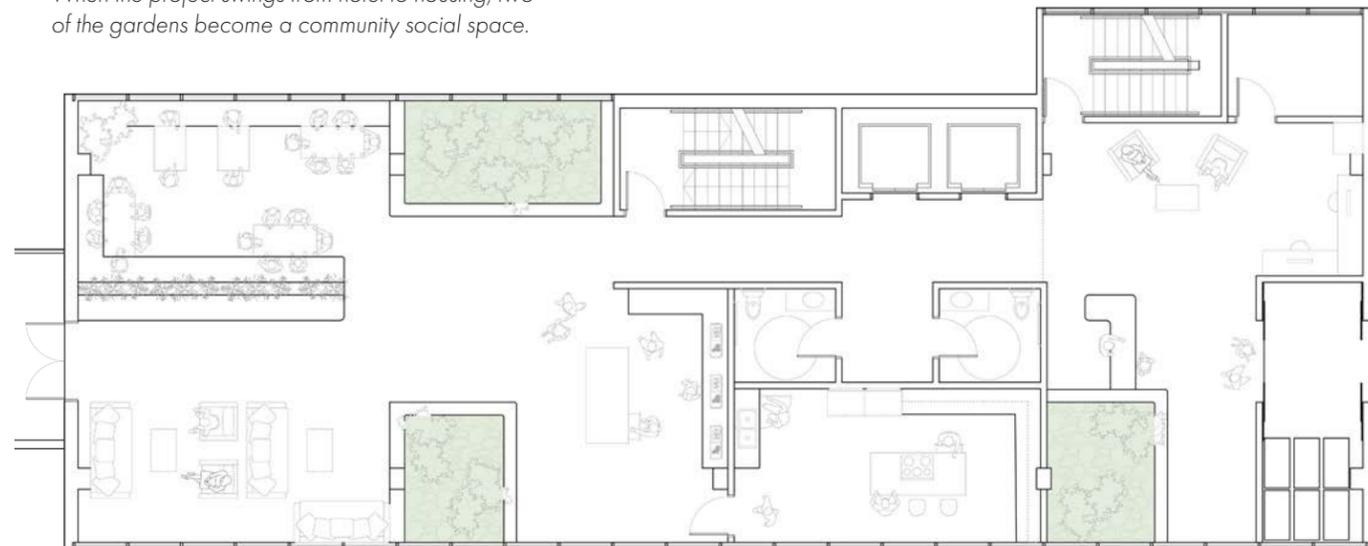
In a typical hotel or apartment, the transition between the outside world and the domestic realm is extremely abrupt (usually just a door separates the two). This project attempts to soften this threshold by creating a space to “sluff off” the outside world before turning to see the rest of the space revealed.



Columns were covered by a wall system that enlarges the space by implying wall depth. Mirrors also helped expand the space.



When the project swings from hotel to housing, two of the gardens become a community social space.



Ground Floor Plan
Scale: 1/16" = 1'-0"



Entrance perspective showing interior gardens.



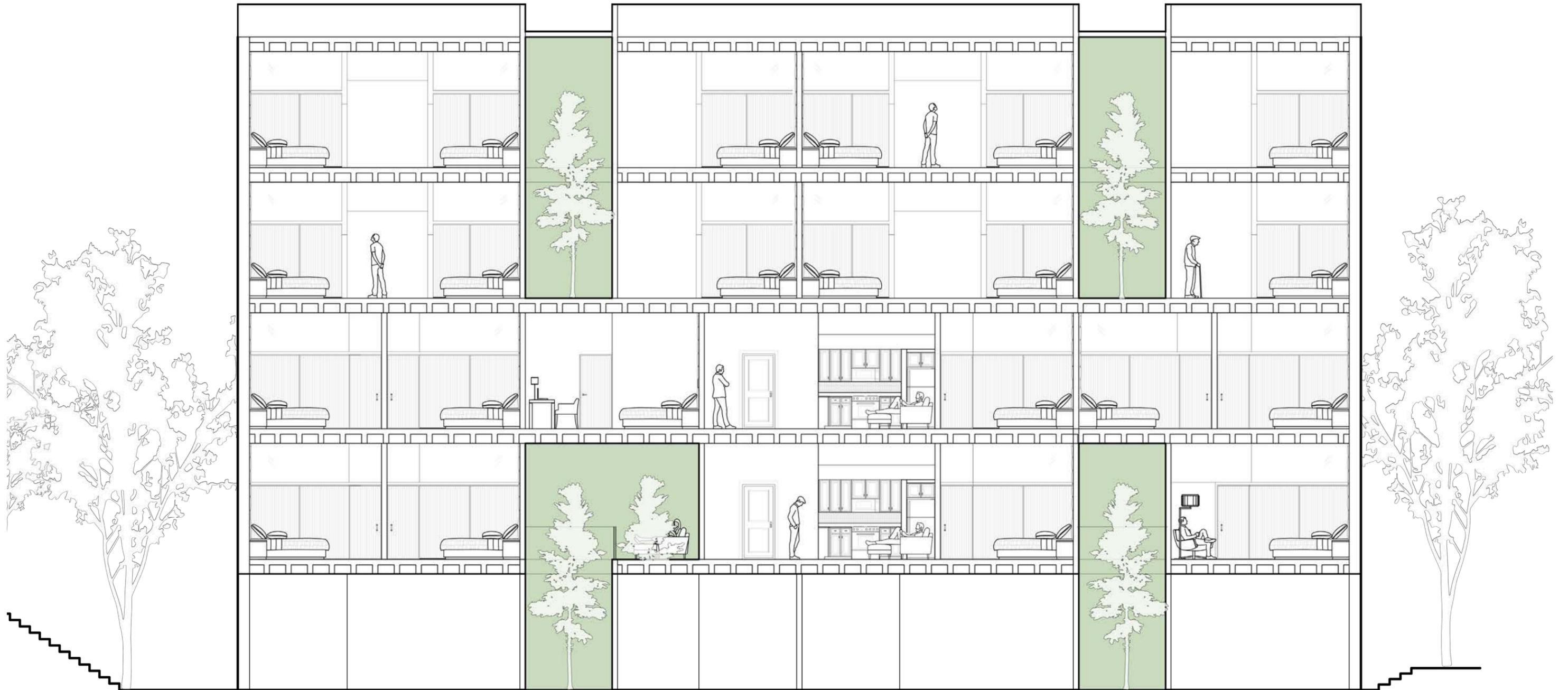
View showing floating furniture in lobby.



View of community eating area.



Additional view of sectional gardens.



Section Showing Interior Gardens

The indoor gardens provide an acoustic barrier between apartments and a sectional relationship between floors. No two apartments share a wall.

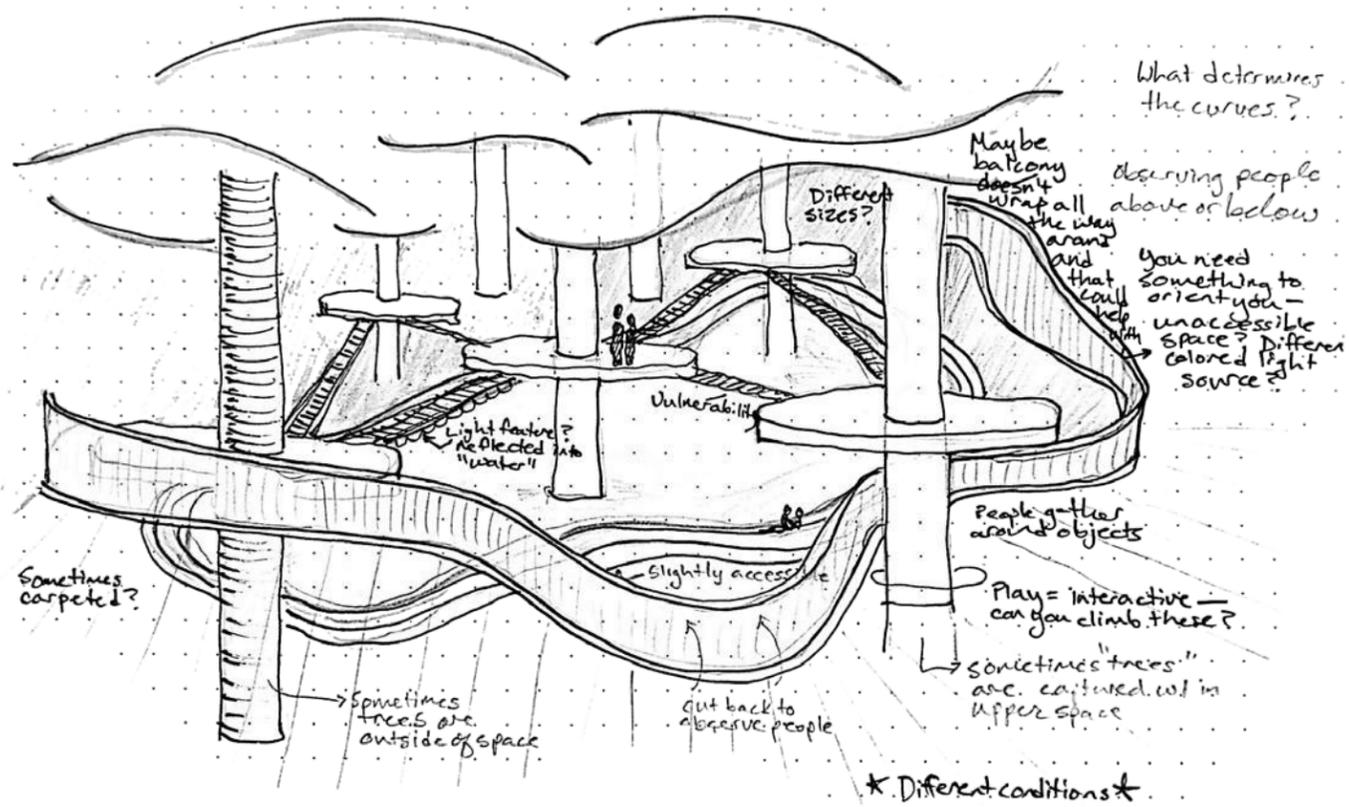
05 To Wander

Evoking Emotion and Designing Randomness

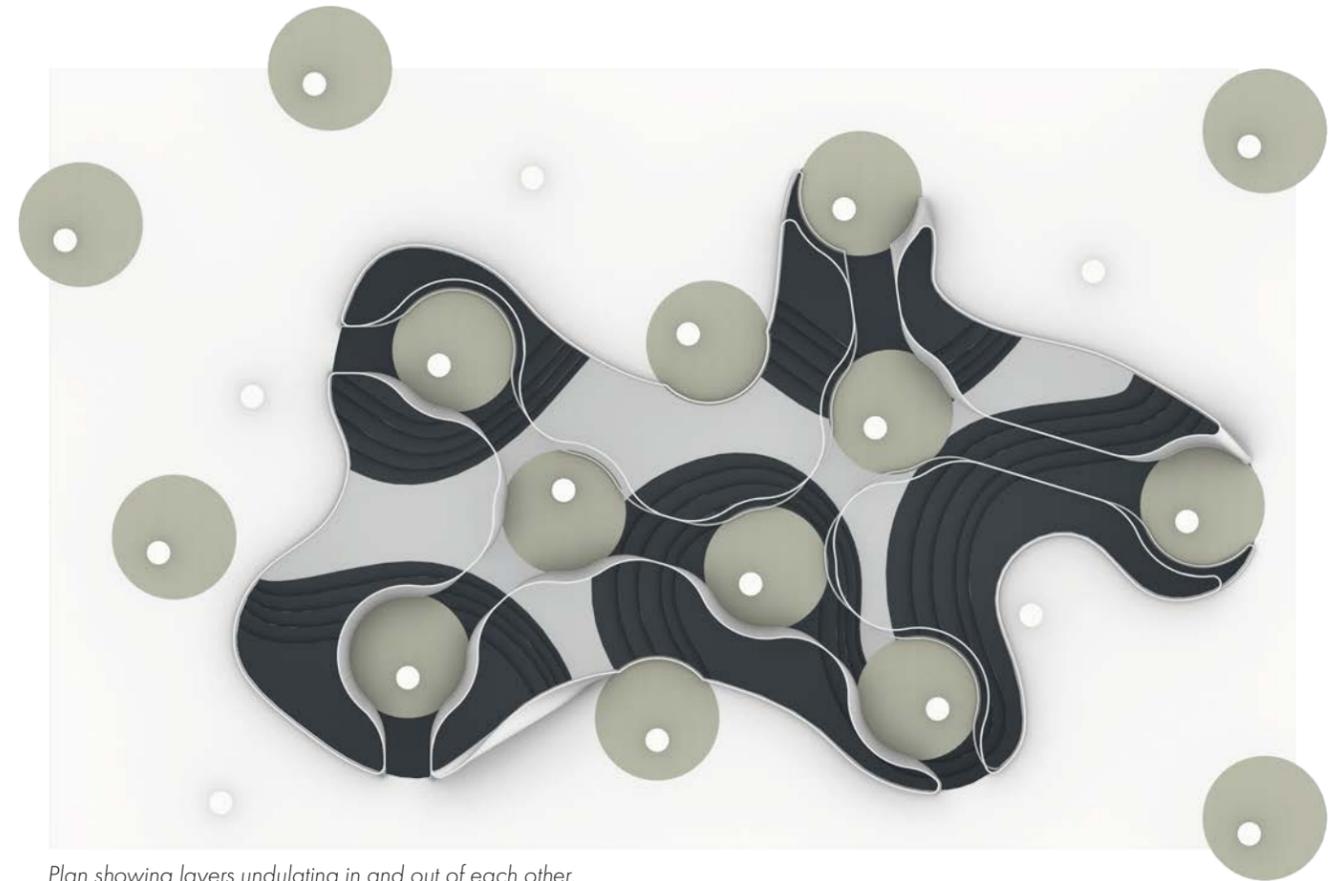
Project: Japanese Teahouse
Type: Adaptive Reuse
Semester: Fall 2021
Location: Atlanta, Georgia
Size: 18,000 Square Feet
Faculty: Jennifer Pindyck

This adaptive reuse project explores how various architectural techniques can be used to create a sense of wonder in a place designed to be an escape from the chaos of the outside world.





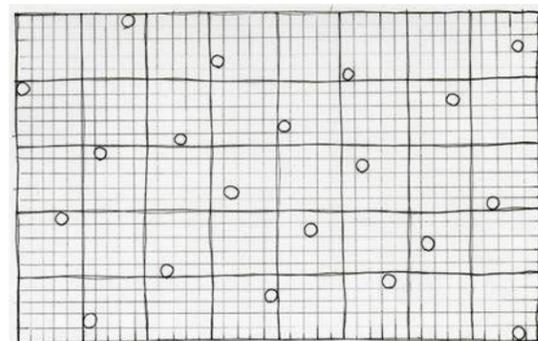
Sketch exploring the idea of vastness, randomness, and the sense of wandering.



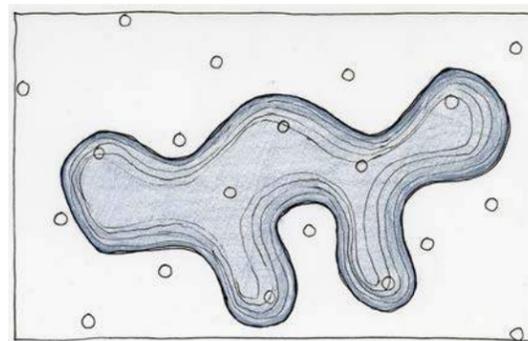
Plan showing layers undulating in and out of each other. Scale: 1/8" = 1'-0"



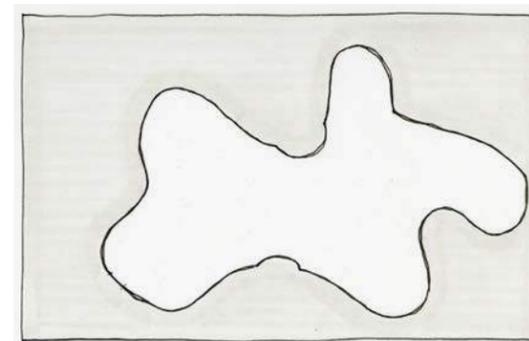
Seemingly Randomized Columns



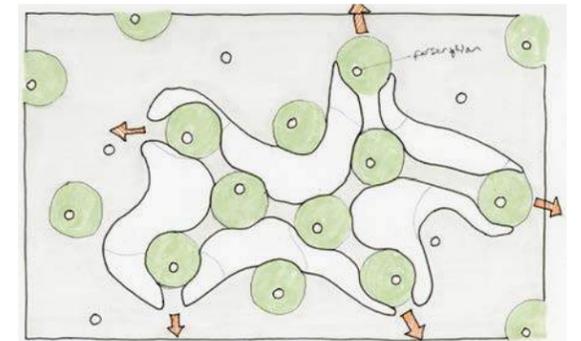
Columns Evenly Spaced



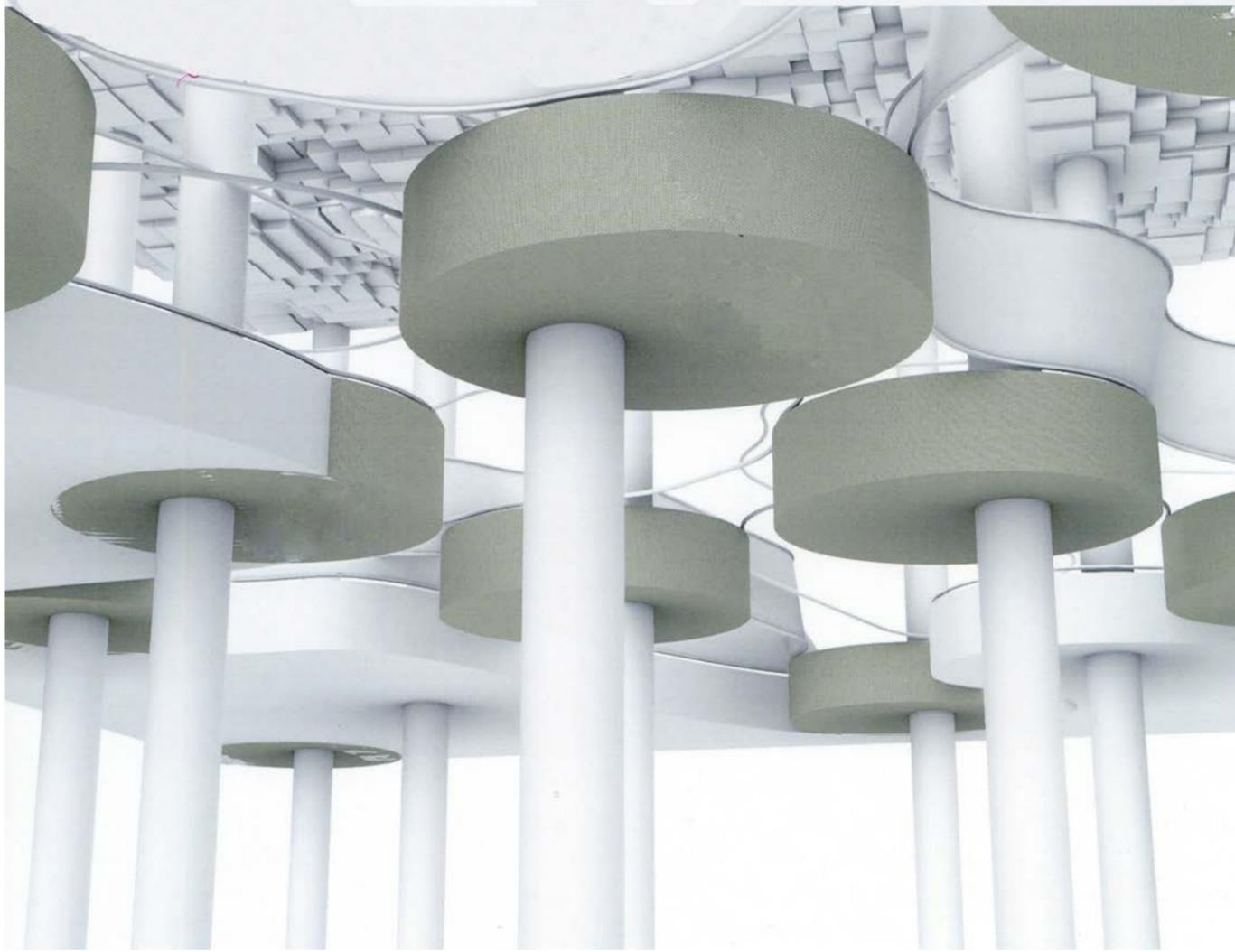
Undulating Boundaries



Circulation Mezzanine



Crossing the Uncrossable



Seemingly-random columns evoke the feeling of having entered an expansive, endless forest.

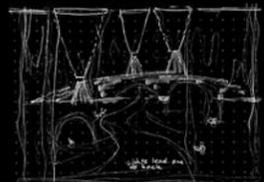


Overlapping layers evoke a sense of movement and encourages wandering.



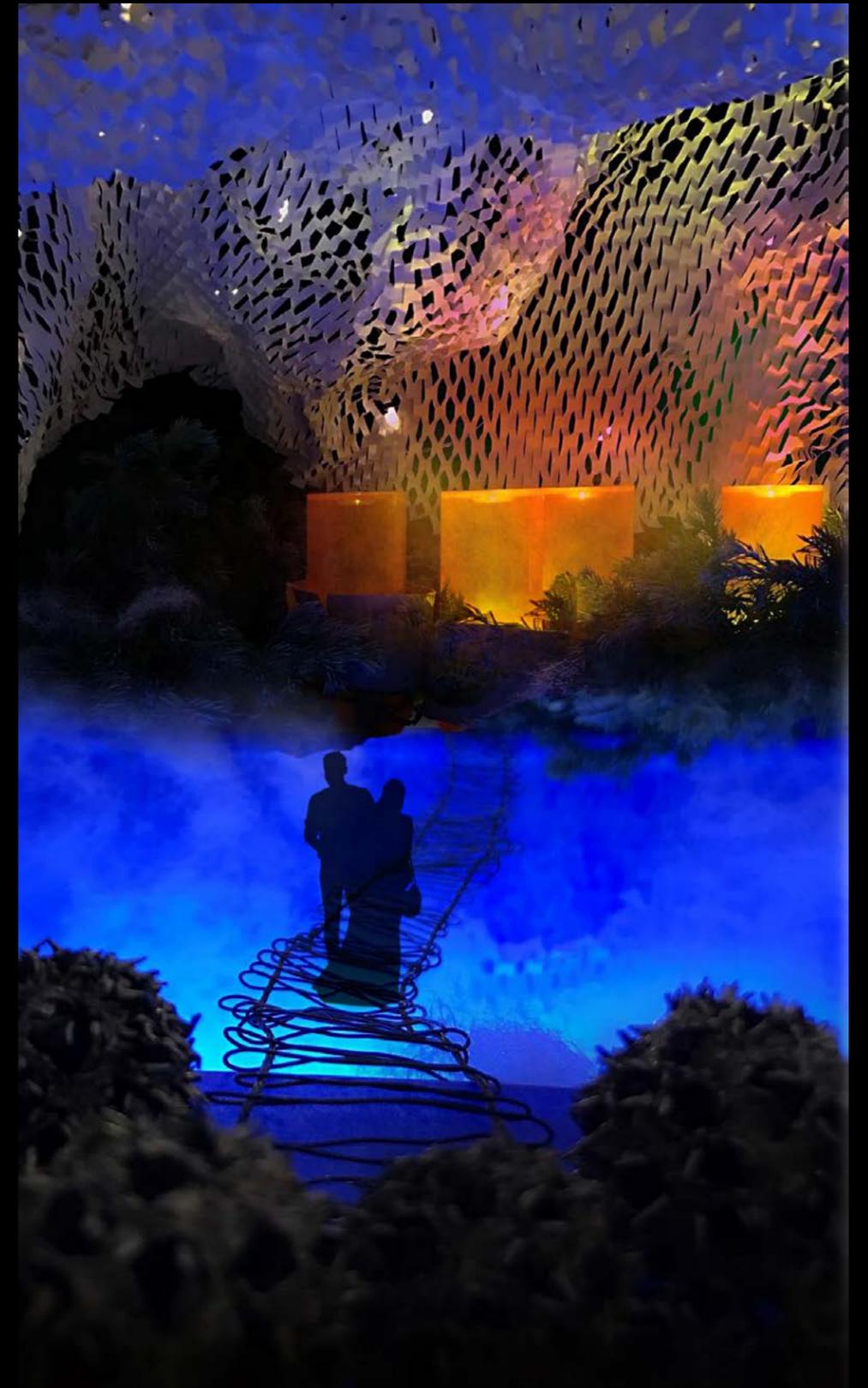
Special attention was given to balancing light and dark areas as dark spaces are sometimes needed to make the light more alluring.

Typically, rooms are lit only from above, but here the space is seemingly lit from within. All light sources are indirect and hidden.

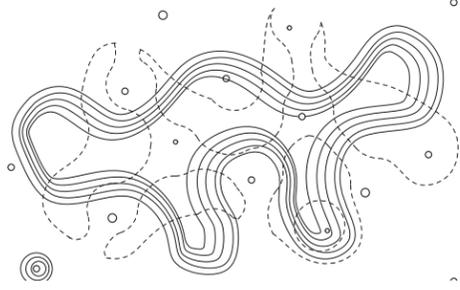


Interstellar
light from above

Skin description - Sun
Magnifying glass
how do they put this in
or with a small scale
what happens when you
go to the end?
Book Room
Small door

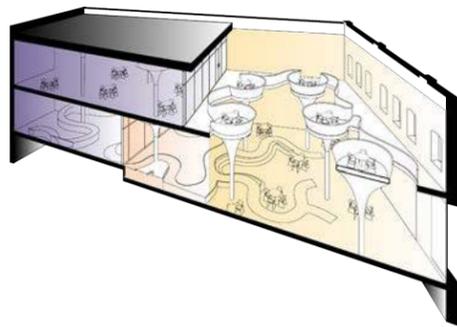


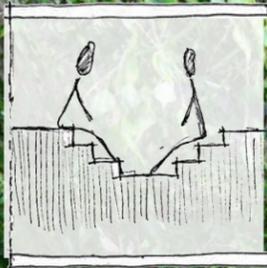
This inspiration model was created using only materials found around the house. The goal was to create an "other-worldly," mystical but beautiful environment.



Plan showing how layers weave in and out of each other to create visual complexity.

- = Interior This is a place to
- = Semi observe without feeling
- = Exterior observed yourself.

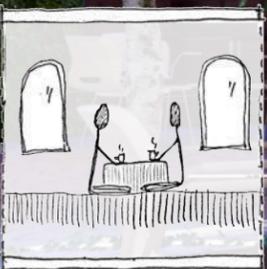




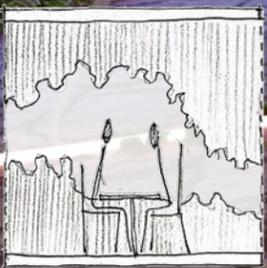
Spontaneous
Informal Stair Seating



Scenic
Observatory Nest Seating



Seiza
Traditional Japanese Seating



Secure
Tables "Protected" by Vegetation



Daytime rendering showing vegetation.



Nighttime rendering showing vegetation.

06

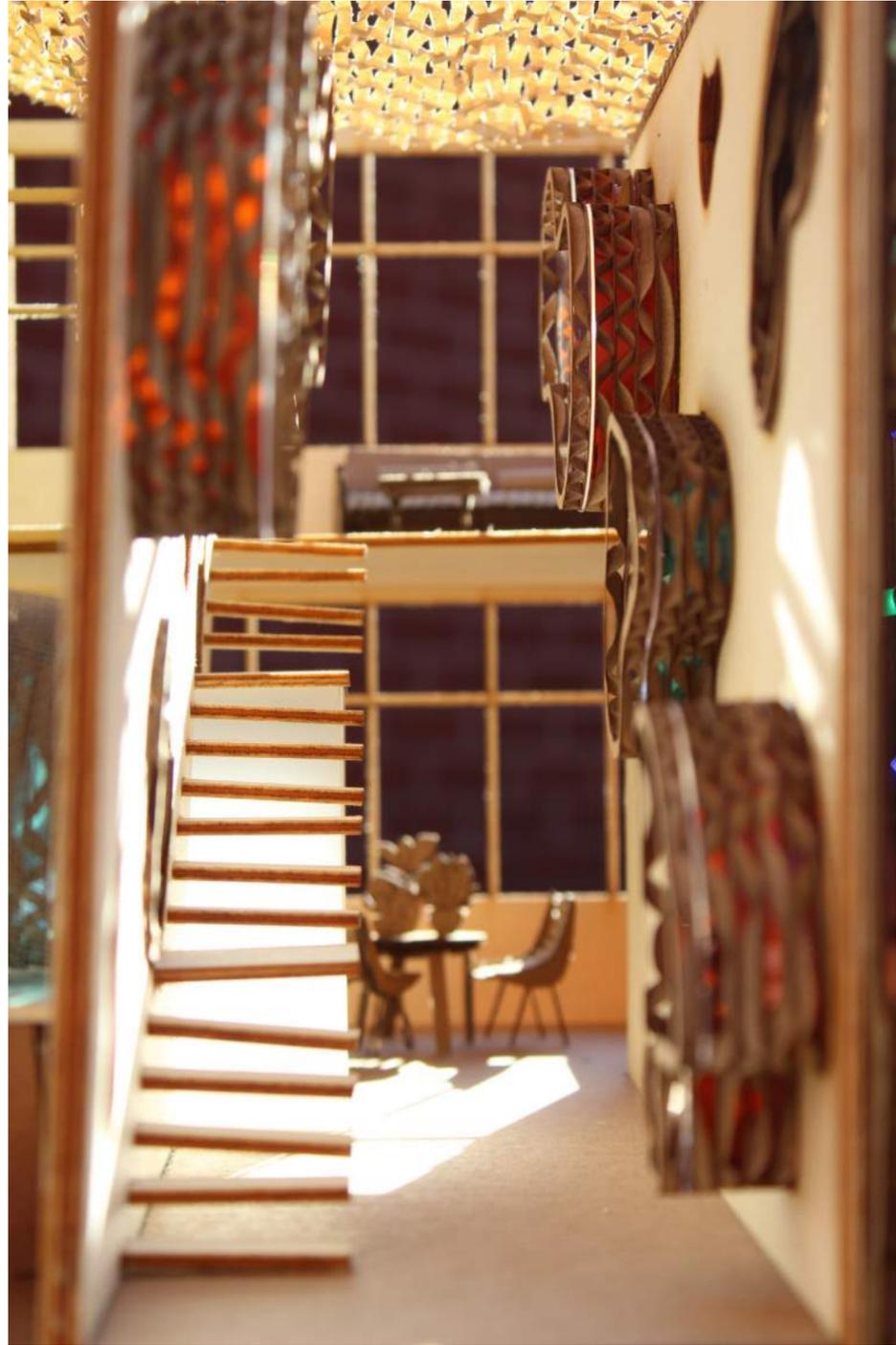
To Interact

Balancing Interactions and Boundaries

Project: Bug Apartment
Type: Theoretical Experiment
Semester: Fall 2022
Location: N/A
Size: 1,145 Square Feet
Faculty: Il Kim

This project, based on the fictional book *Metamorphosis*, attempts to reconstruct the relationship between two completely different creatures--a girl and a bug. This could only be done by creating a healthy balance between interactions and boundaries.





The Fear of Change
Drew Haley Smith

*I thought it was a normal day
With normal things to do,
Until I saw that I was wrong
And didn't have a clue.*

*Somehow, I'd changed into a thing
I didn't recognize
But even still my way of life
I would not leave behind.*

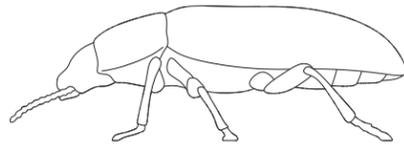
*I questioned not why things were so
Though life was rather strange,
Although I did not cry or blame,
I still refused to change.*

*No sympathy from friend or kin,
No understanding eye,
Was this what fate had stored for me
Until the day I'd die?*

*If only they could understand
That this was not ideal,
Perhaps they'd make arrangements
That would give me time to heal!*

*But seeing things the way they were,
I could not hope for that.
Instead, I knew that I must find
A brand-new habitat.*

*Yes, the past is precious,
But the future could be too,
So why stay stuck in bitterness
When there's so much you could do?*



*Metamorphosis is a book
written in 1915 about a
salesman named Gregor who
wakes up one day to find that
he has been transformed into a
human-sized beetle.*

*He struggles to adapt to his
new life; but the only person
who really seems to understand
him is his sister, Greta.*

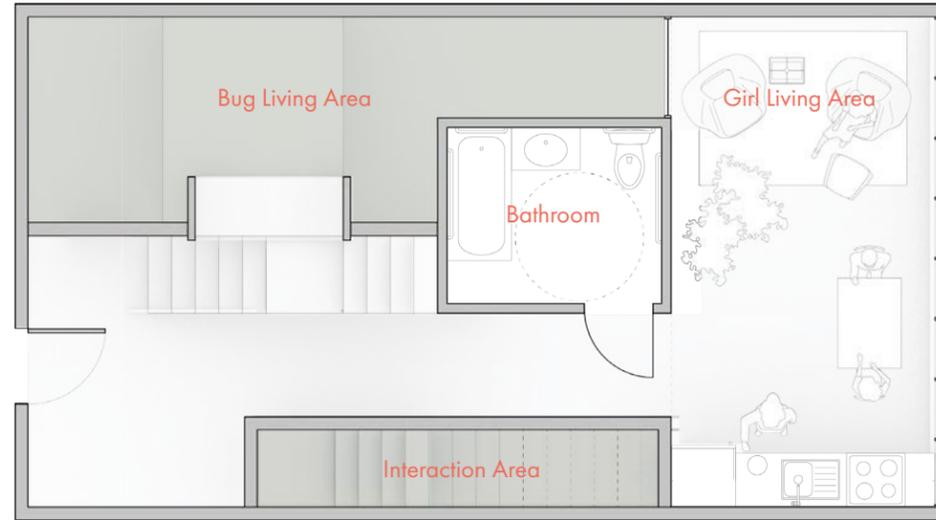
*She loves him because he is
her brother, but she is scared of
him because he is a bug.*

*Eventually, Gregor decides to
move away, but his new home
must accommodate his current
condition and the frequent visits
from his sister.*

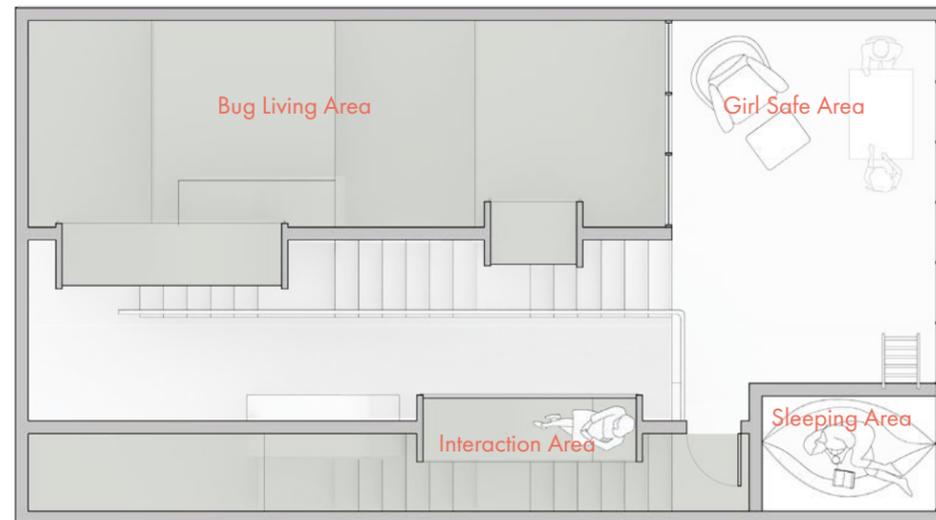
*In other words, this new home
must somehow help maintain
a healthy relationship between
the two creatures.*



*When Greta comes to visit, she can lead a normal life with
as much or as little interaction with Gregor as she chooses.*



First Floor Plan



Second Floor Plan

Bug sleeping area (Gretor prefers to sleep hanging from the ceiling).

Bubble windows allow Gregor and Greta to interact closely but safely.

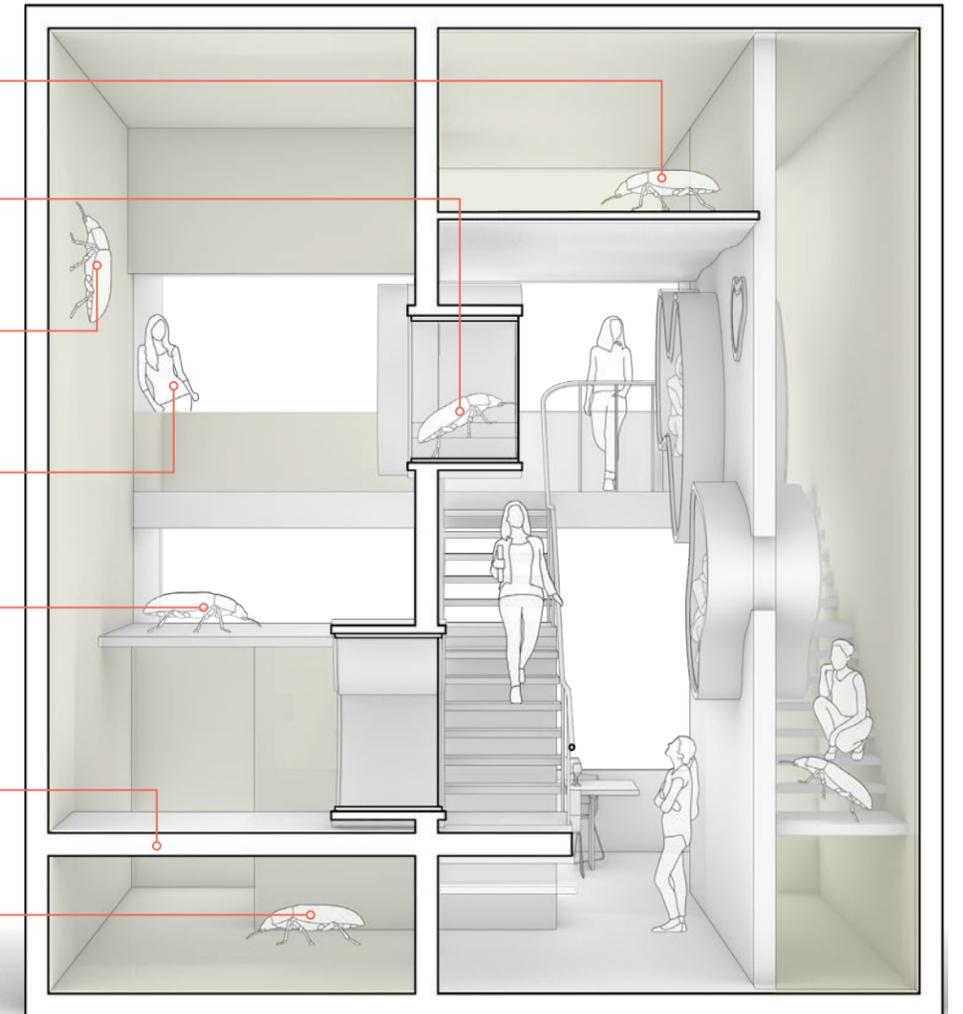
Gregor's walls are climbable.

Greta's area of retreat extends into bug living area.

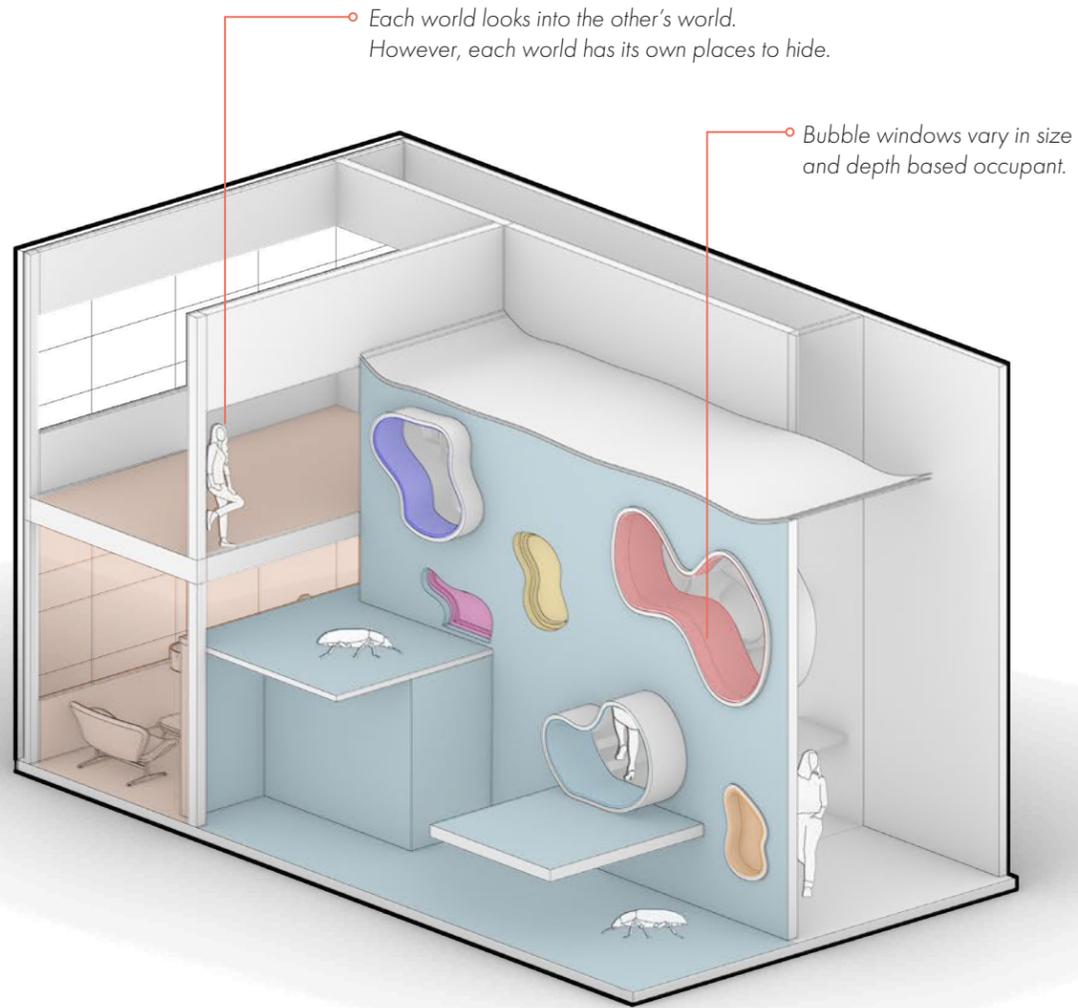
Gregor's living area looks into Greta's living area.

Bug platform extends into human world to become a step.

Gregor has a safe place where he can go when he prefers privacy.



Section perspective showing how each world is completely separate, but still pushes into the other world.

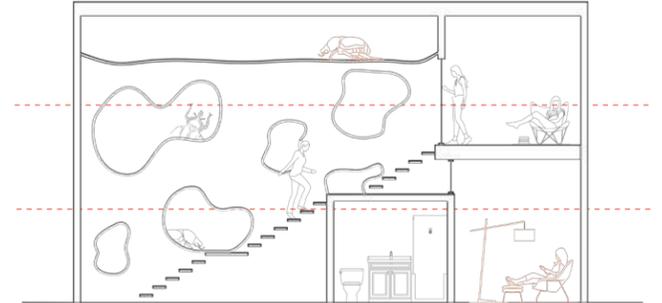


Each world looks into the other's world.
However, each world has its own places to hide.

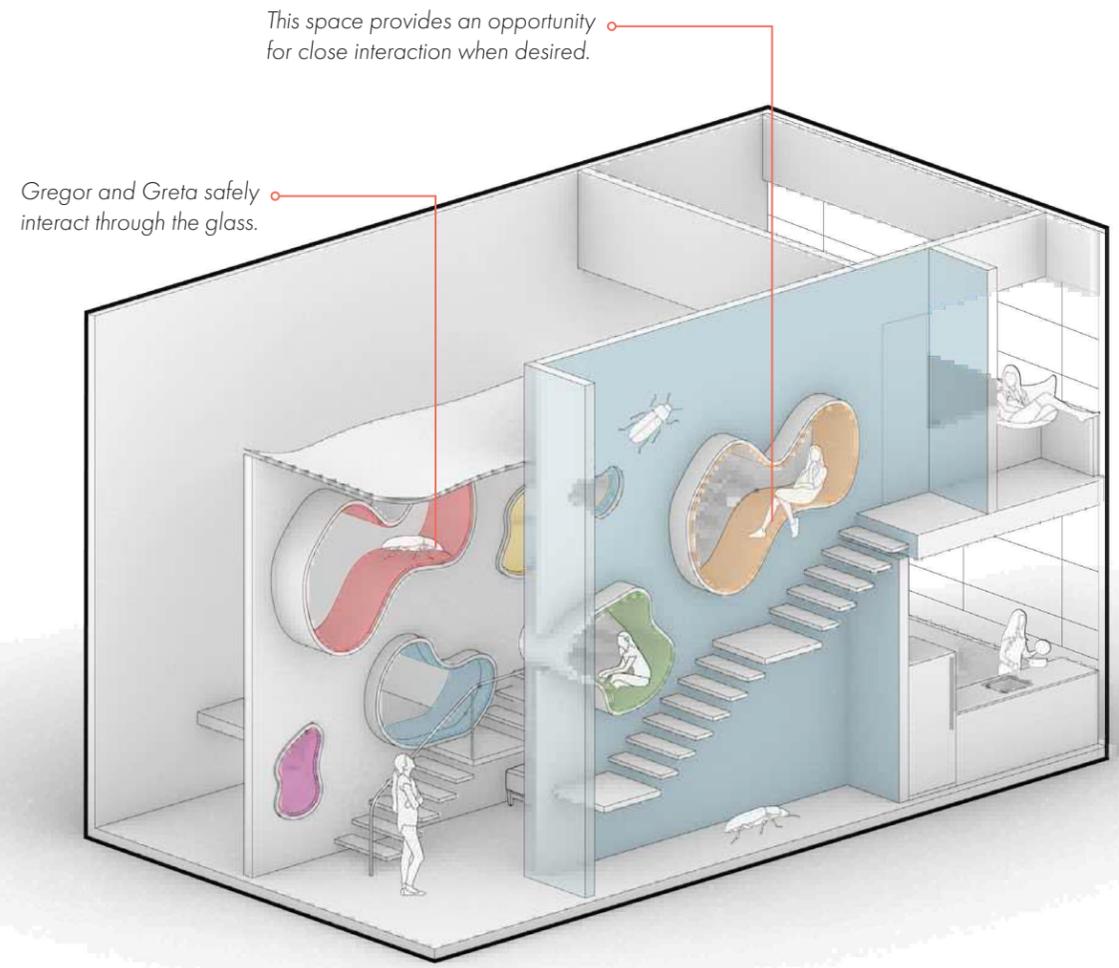
Bubble windows vary in size
and depth based occupant.



Section C:
Section showing living
and sleeping areas.

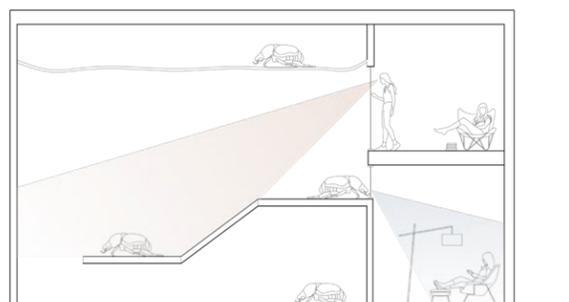


Section D:
As one ascends the project, the level of interaction decreases.
Each person has control of his own level of privacy.



This space provides an opportunity
for close interaction when desired.

Gregor and Greta safely
interact through the glass.



Section A:
Each person has visual access into the other's world.
However, within each world, there are places to hide.



Section B:
Section showing climbable walls.

07

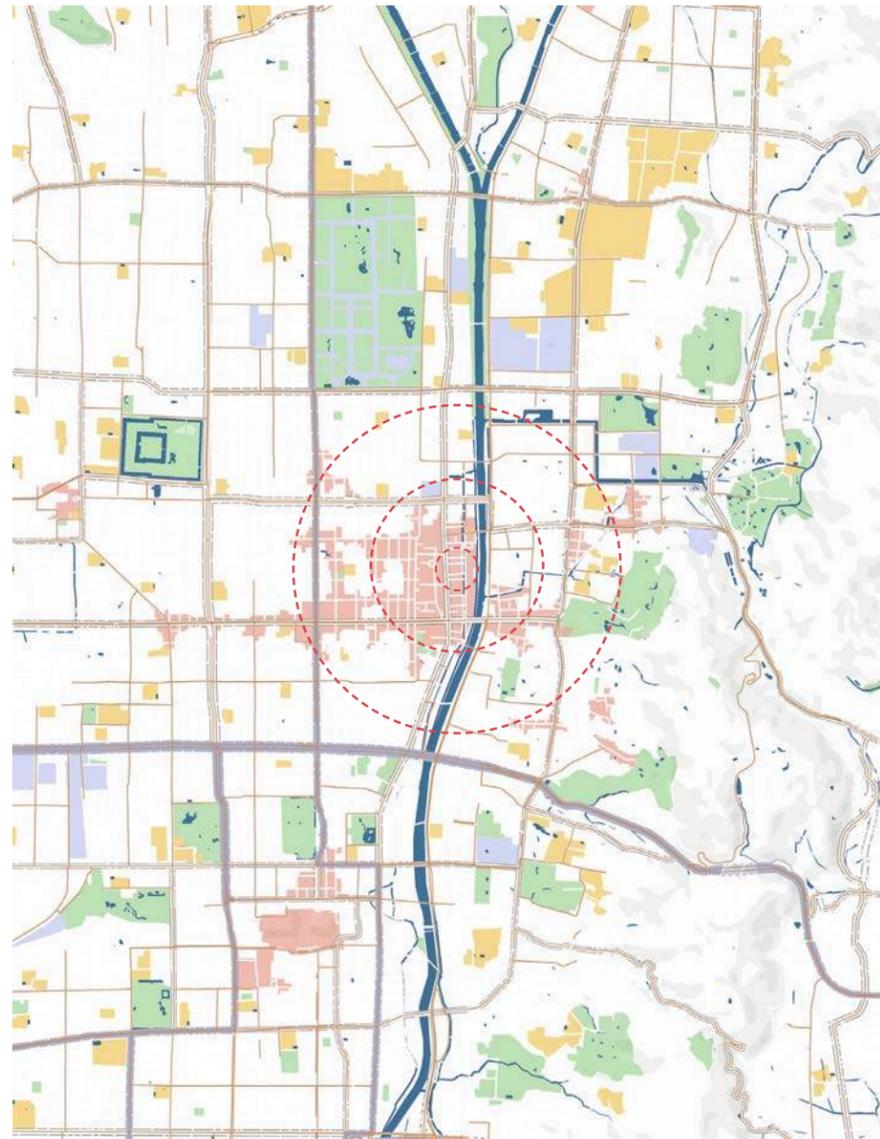
To Live With

Providing Privacy and Flexibility

Project: Multigenerational Housing Complex
Type: Thesis Project
Semester: Spring 2023
Location: Kyoto, Japan
Size: 86,900 Square Feet
Faculty: Il Kim

This thesis examines the rise of multigenerational living in the United States and how this lifestyle can positively impact families. This project explores how a home's design can enhance or hinder this lifestyle. Particular attention was given to providing a housing complex that prioritizes privacy and flexibility.





Transportation analyzed within a five-minute walking radius.



Clinics/Convenience stores analyzed within a five-minute walking radius.

Japan is the most rapidly-aging country in the world. This makes it the perfect location for a multigenerational housing complex.

Land Use Analysis:

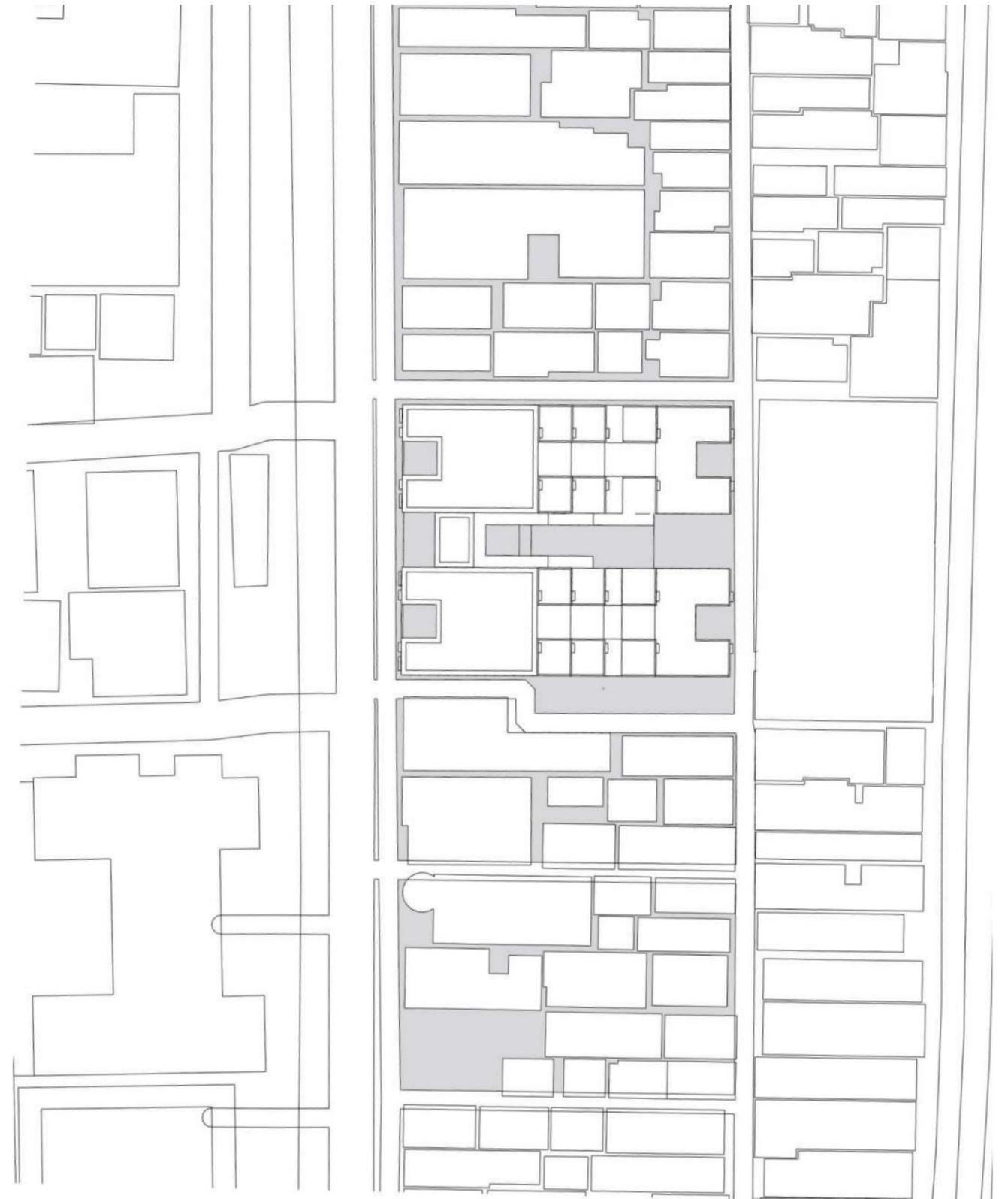
Land use within a five-minute walking radius

- = commercial
- = educational
- = public park
- = medical



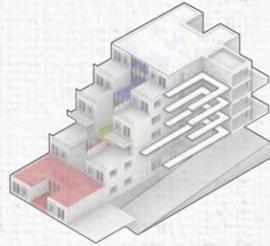
Transportation:

- 14 Bus Stops
- 6 Subway Stations
- 16 Vehicle Parking
- 8+ Bike Racks





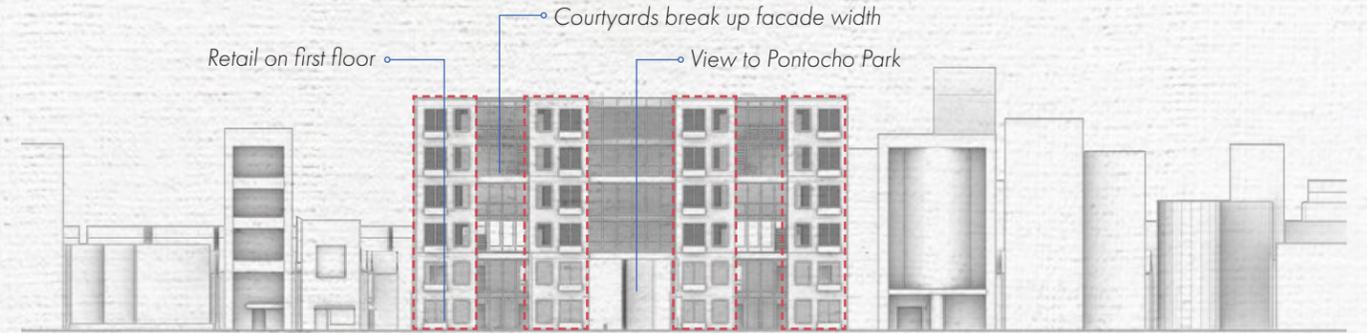
View of Pontocho Park
One can see and access Pontocho Park from street.



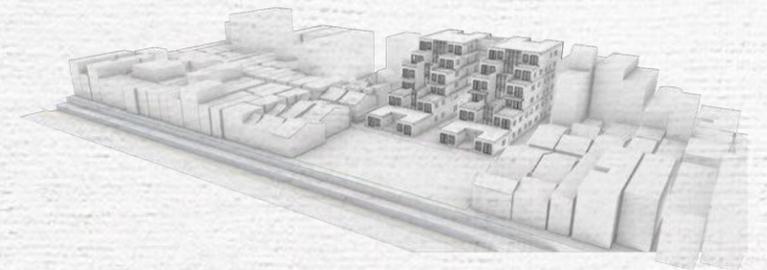
Circulation Diagram
Circulation provides opportunity cross-ventilation.



Section Showing Ramp
Parking area below receives adequate natural light.



Front Elevation
Existing buildings along street edge average six stories. New design blends into this context seamlessly.



Back Perspective
Cascading facades help building blend seamlessly with context.

Community Spaces

Community engagement is extremely important, especially for the oldest generation. The first two floors facing the street have been reserved for both internal and external community activities.

This first floor contains three retail spaces, two community kitchens, and a primary and secondary lobby. The second floor contains two community classrooms for residents.



Entrance Courtyard

The entrance courtyard provides separation between retail areas and the busy street.



Main Lobby Entrance

Lobby entrance is large enough for socialization and features a double-height space.



Retail Space

The bottom floor contains three retail areas, which are only accessible from the street.



Community Classroom (1 of 2)

These 913 square-foot rooms are reserved for residents only and overlooks the lobby, retail areas, and street. It can be used for senior activities, children's classes, yoga classes, etc.

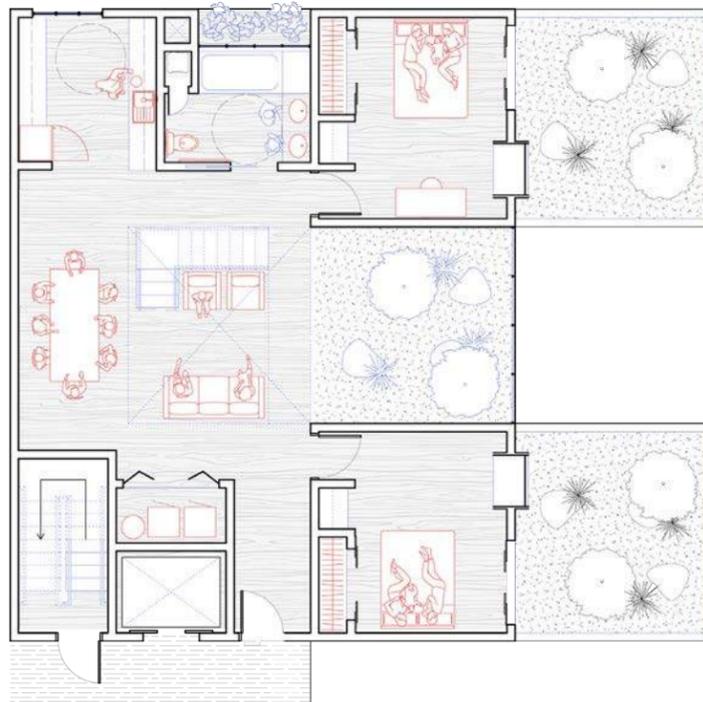


Community Kitchen (1 of 2)

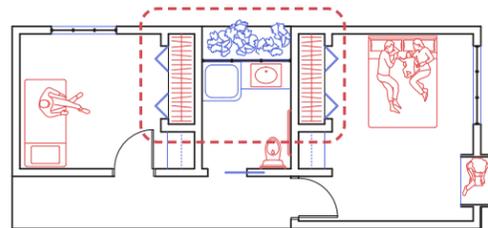
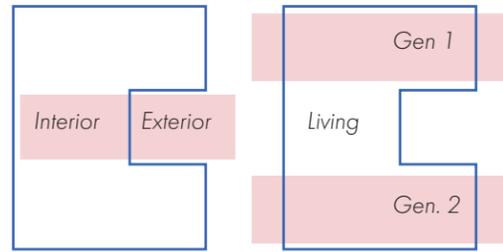
These 688 square-foot rooms are reserved for residents and can be used for cooking classes, common meal, birthday parties, or any large gathering.



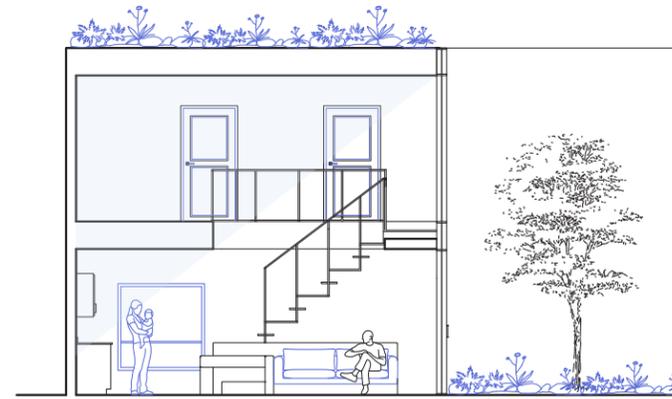
Third Floor Unit Upstairs
Scale: 1/16" = 1'-0"



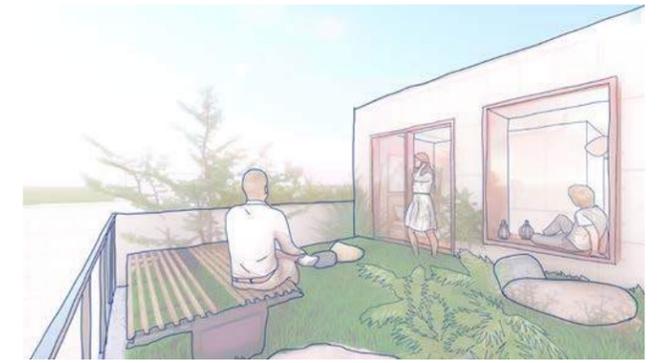
Fifth Floor Unit Downstairs
Scale: 1/16" = 1'-0"



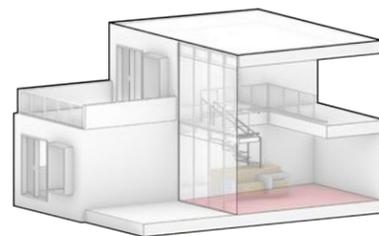
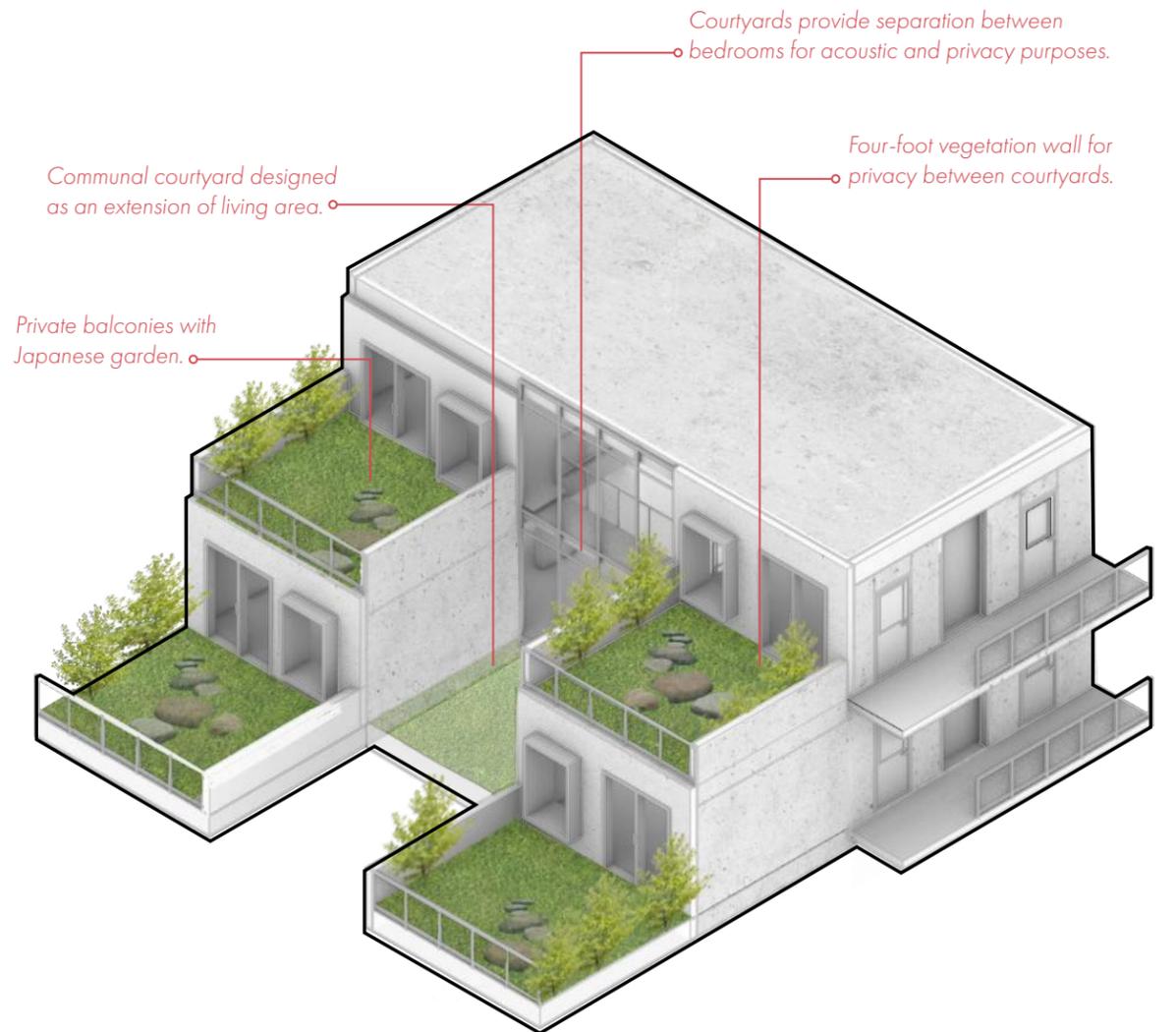
Acoustic Barriers
Bathrooms and closets provide acoustic barriers.



Unit Section
Showing how double-height space brings light deep into home.

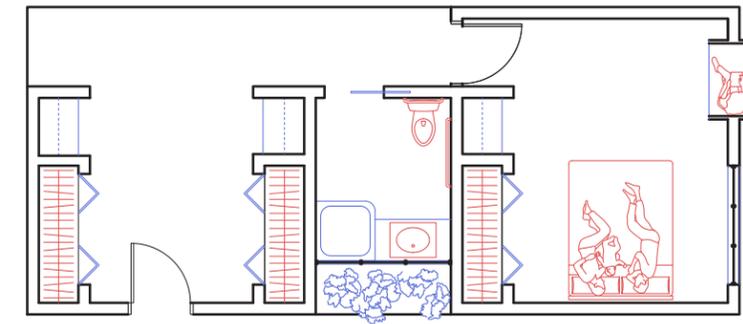
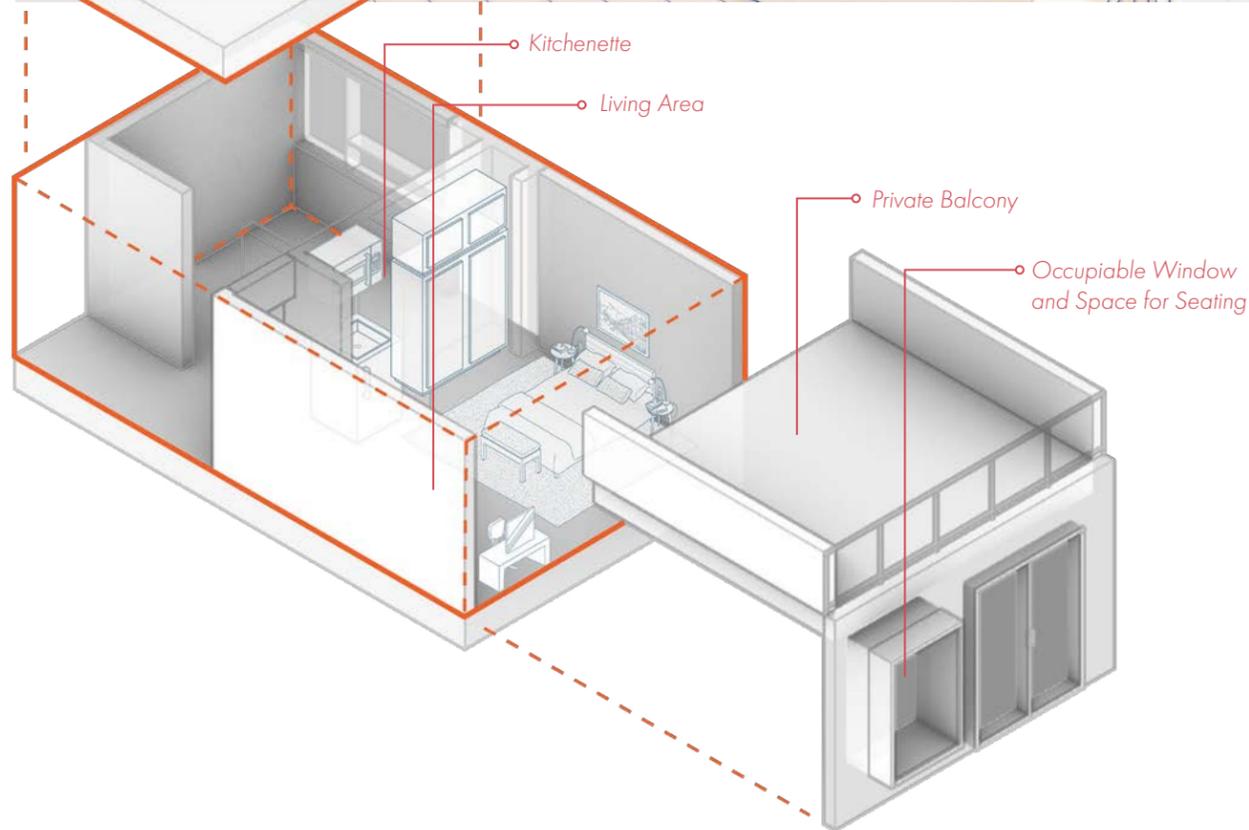


View of Private Balcony
Each bedroom has private balcony and garden.

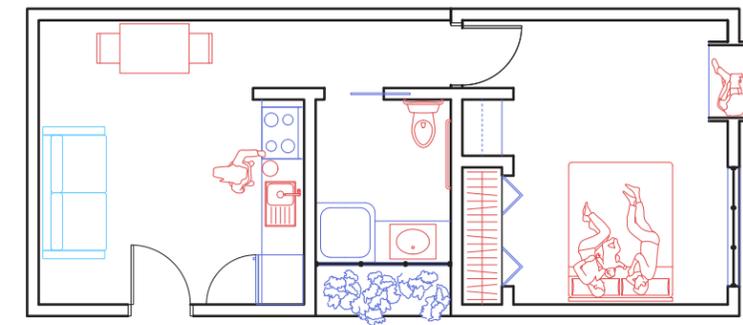


Living Space Courtyard
Showing how courtyard is an extension of living space.

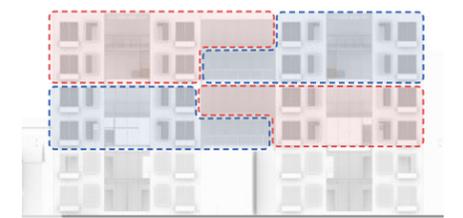
"Apartment in a House"



Normal Layout

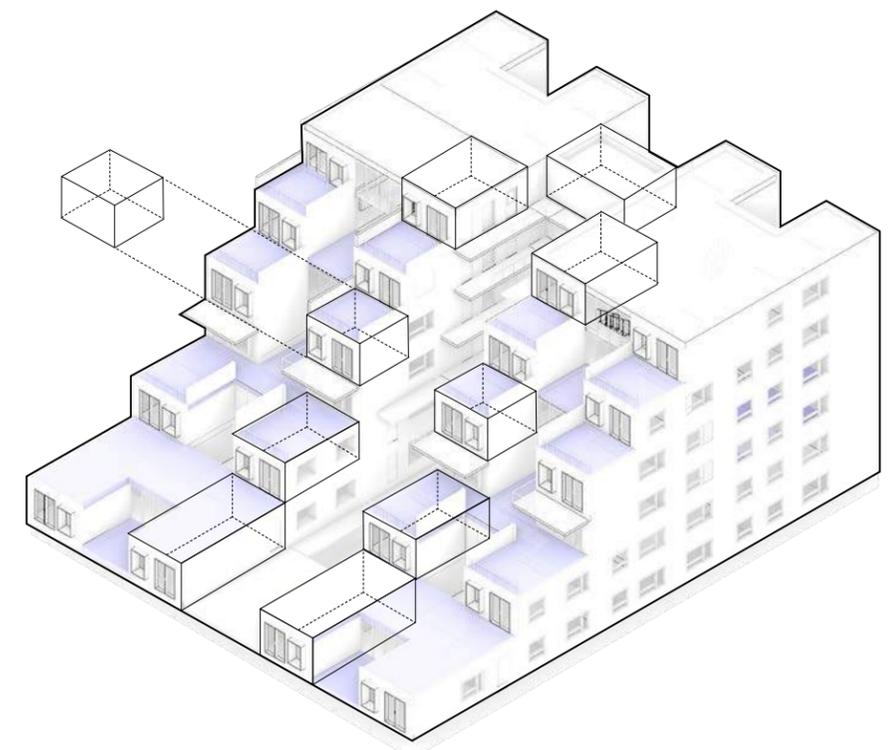


Rented Layout



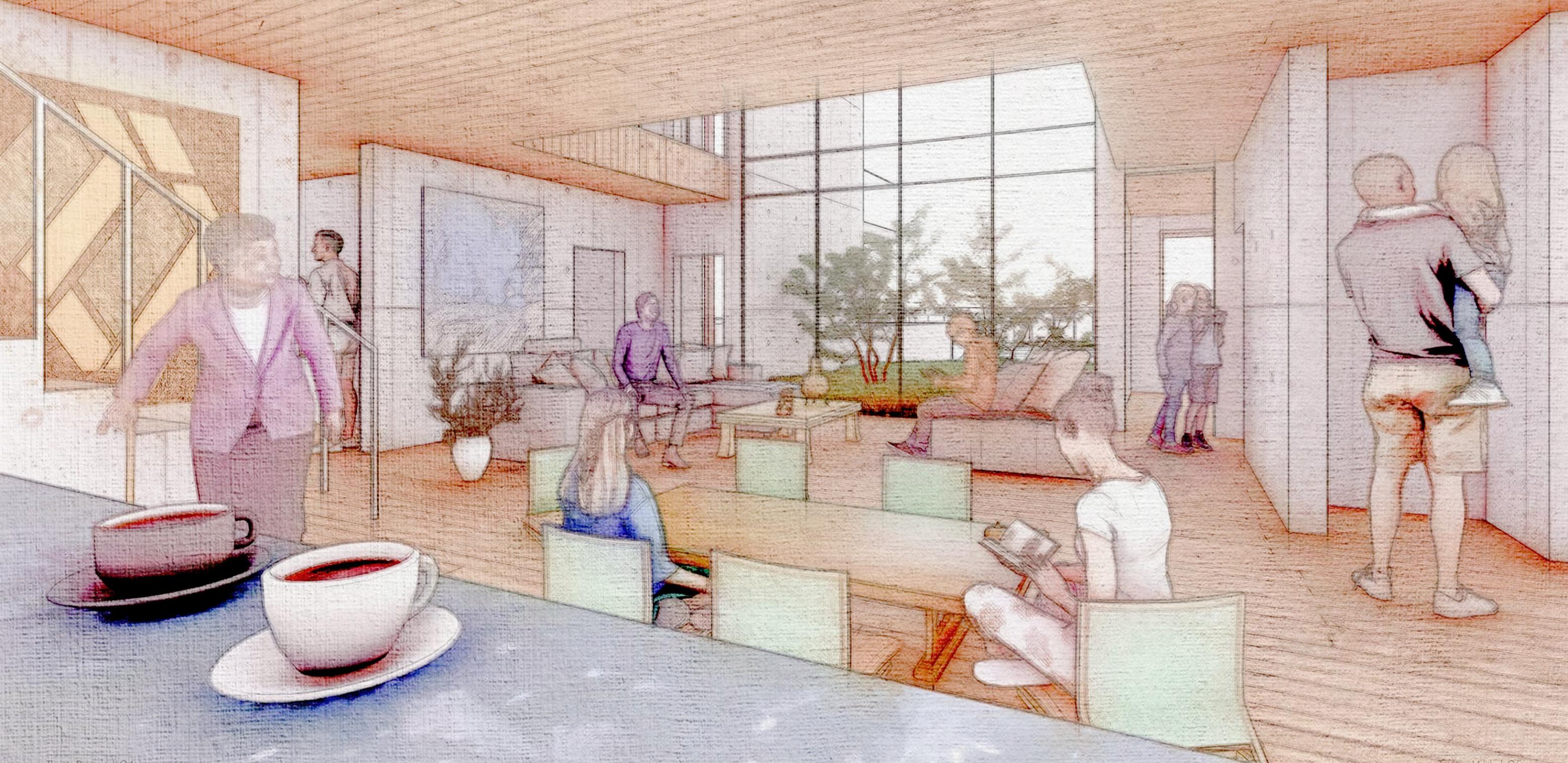
Front Elevation
Showing how rentals are distributed between towers.

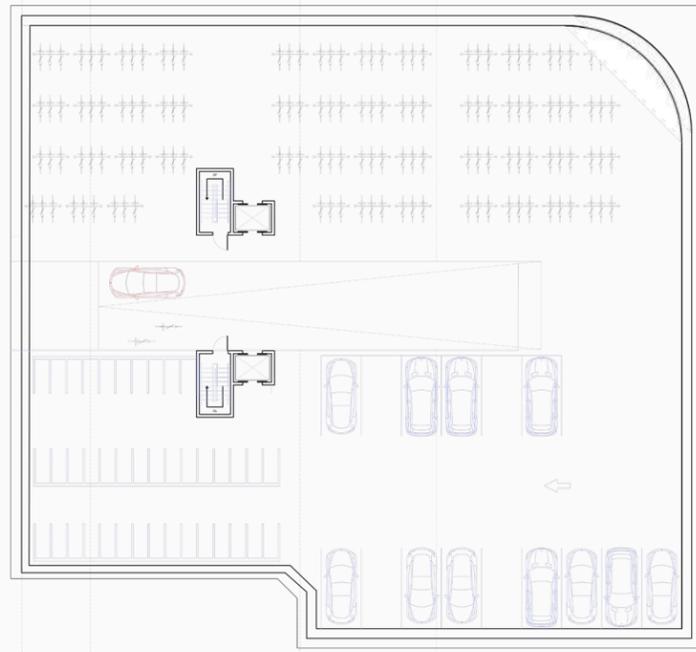
Multigenerational families are constantly changing. When a bedroom is unneeded, it can be converted into a rentable apartment by renovating an entrance into a kitchen.



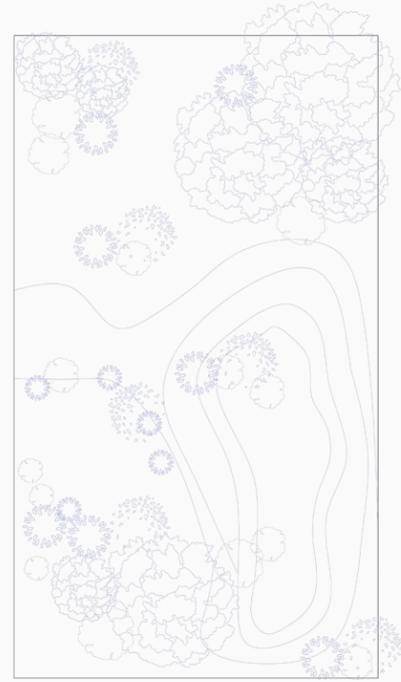
Voluntary Living Area

Because the bedrooms can function completely independently, the living areas are completely voluntary.

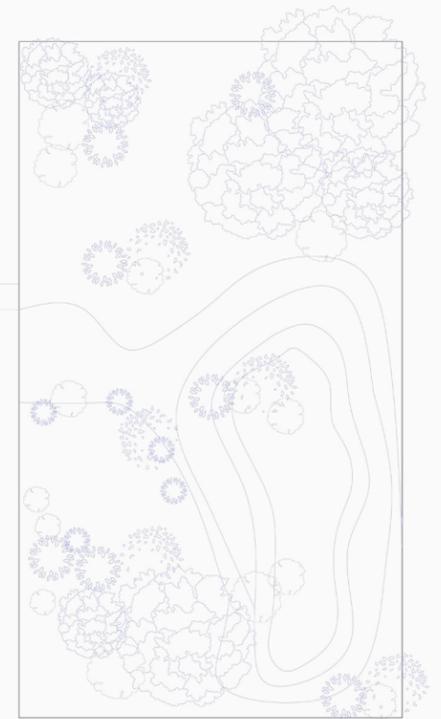




Basement Plan
Showing how basement receives adequate light.



Second Floor Plan
Contains the two community classrooms

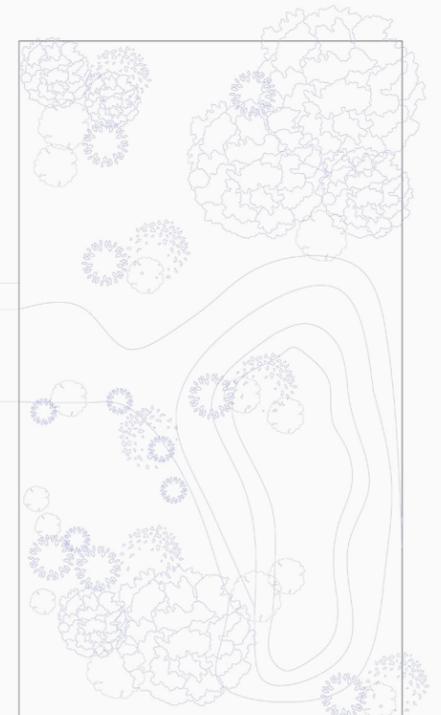


Section Through Units
The structural system is load-bearing concrete walls.
All units have at least one private balcony and access to ample natural light.

Color indicates separate units.
(Note: color has no purpose other than distinguishing boundaries. See following pages for specific variations.)

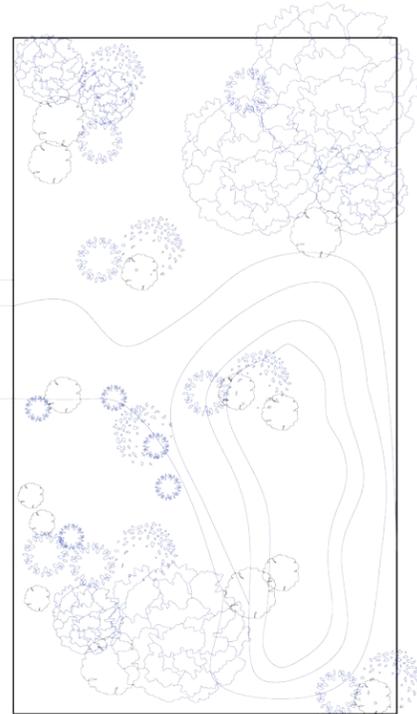


First Floor Plan
Contains lobby, retail areas, and community kitchen classrooms.

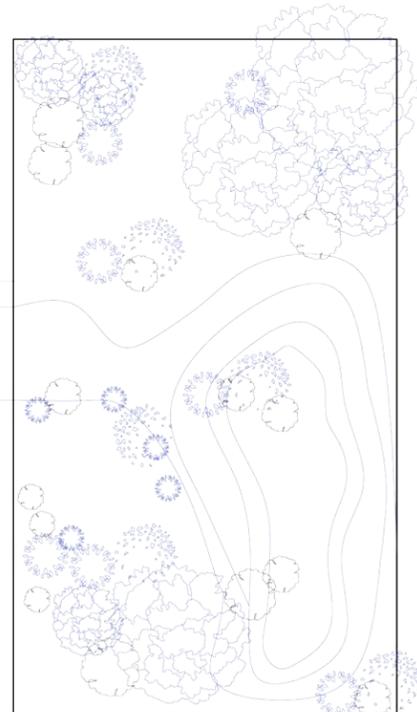




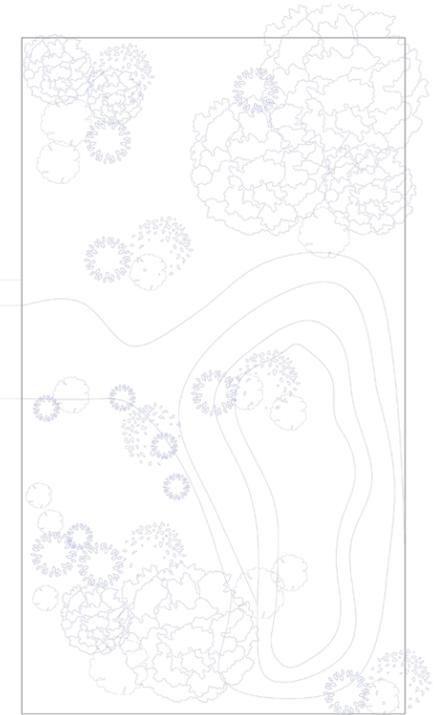
Fourth Floor Plan



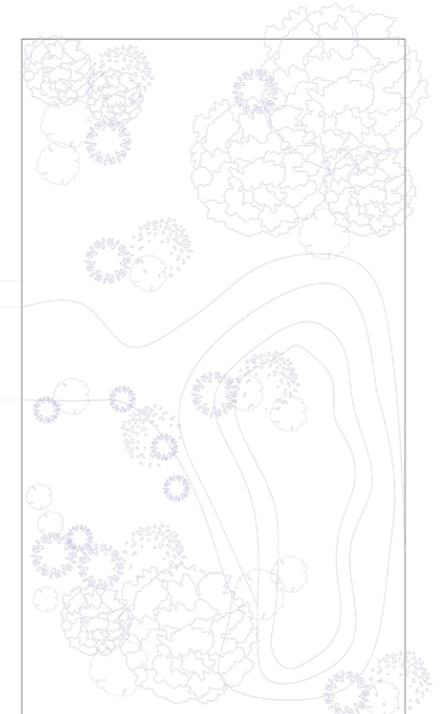
Third Floor Plan



Sixth Floor Plan



Fifth Floor Plan





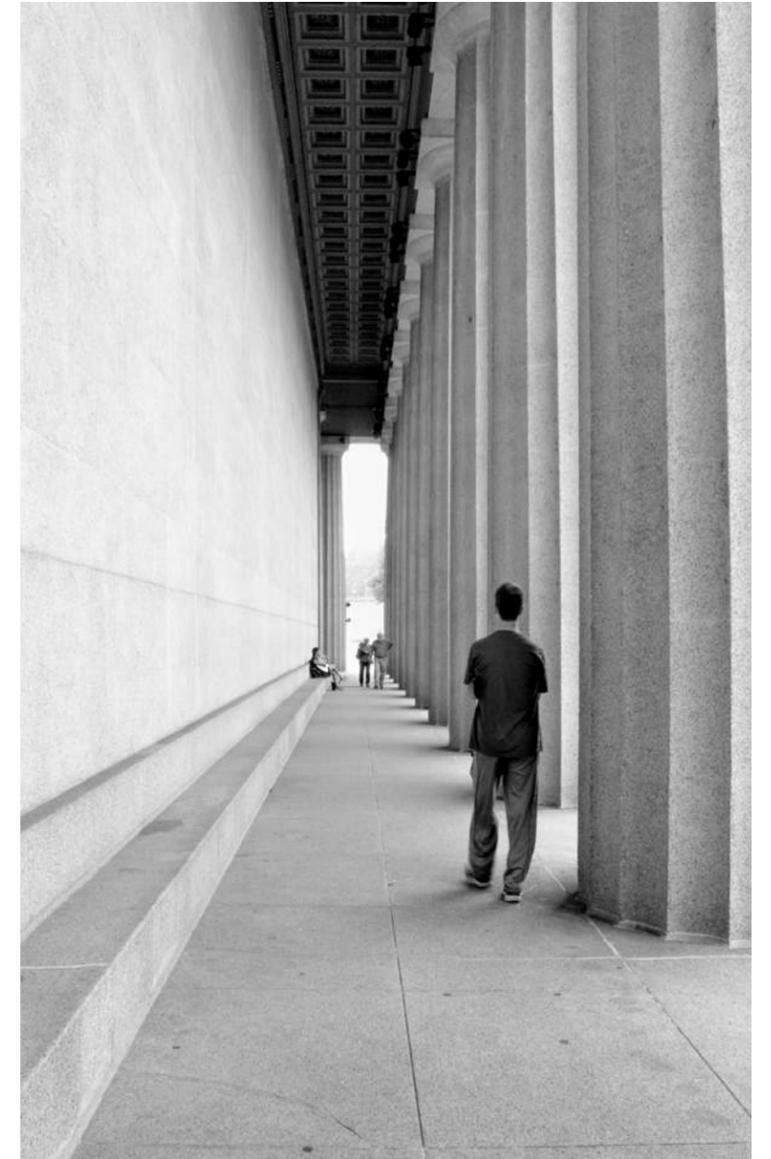
08

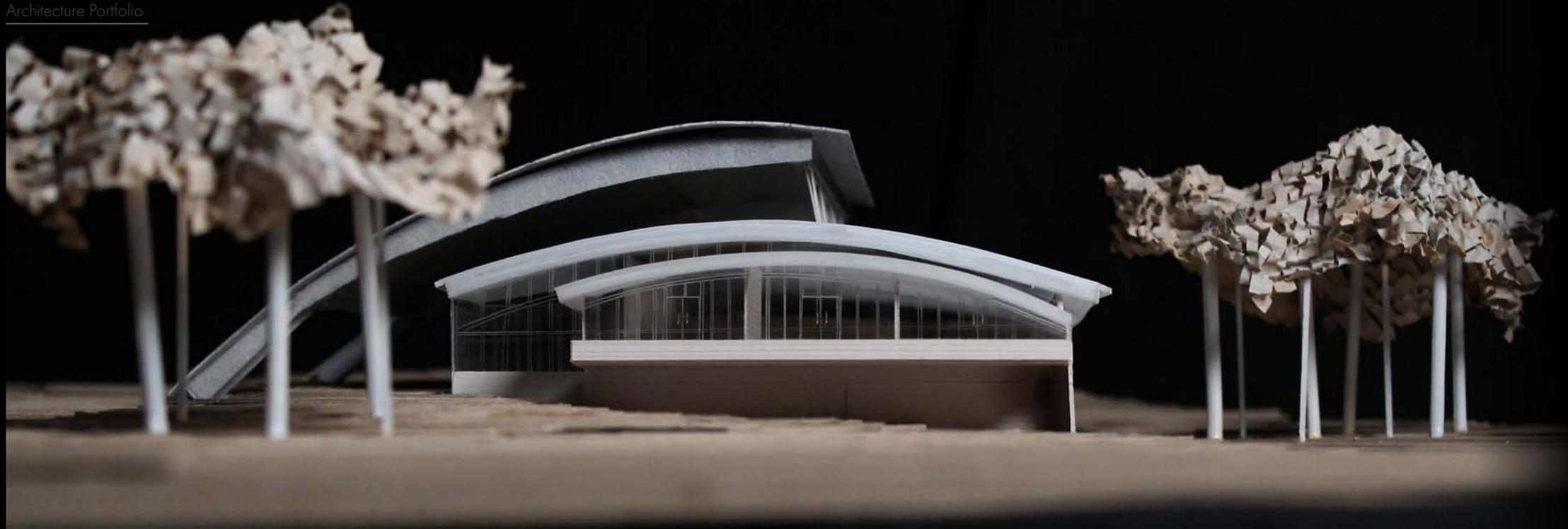
To Have Fun!

Photography and Model Making

The following pages are a small sampling of projects pursued over the past five years.







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Colophon

Printed: April 2023.

Paper:

Typeface: Futura designed by Paul Renner, 1927.

Drew Foley Smith