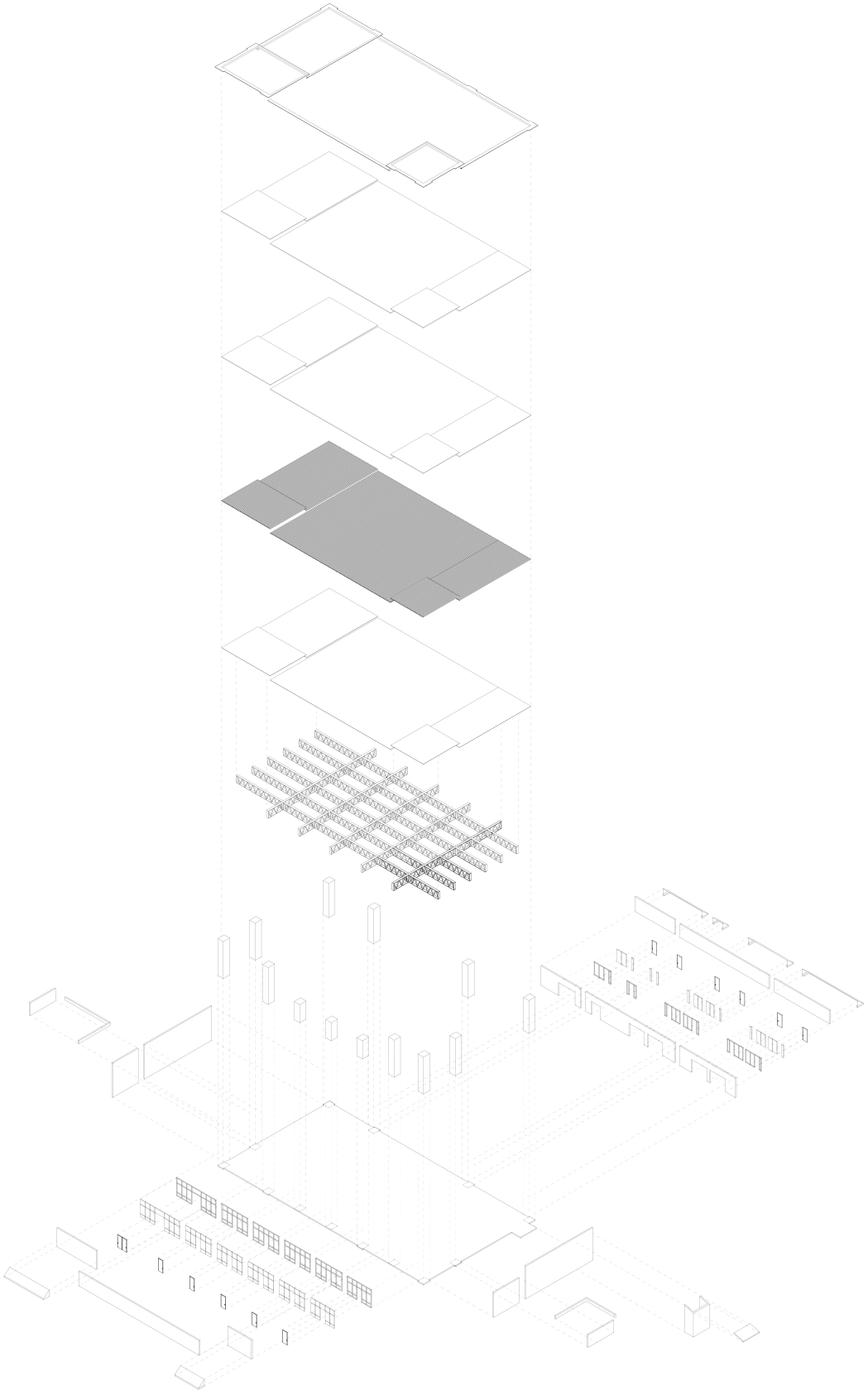
Dibya Malla

Selected Works



Bachelor of Architecture 2019-2024
California Polytechnic University, San Luis Obispo

Dibya Malla | Palo Alto, CA

Phone: (650)-924-8187 Email: d.malla.12.04@gmail.com
in: www.linkedin.com/in/dmalla/ IG:@dm_archncrafts

EDUCATION

California Polytechnic University, San Luis Obispo | Bachelor of Architecture | September 2019 - June 2024
Thesis: [UN]wrap, [UP]cycle, [RE]peat

Washington-Alexandria Architecture Center (WAAC) | August 2022-December 2023

Cal Poly Los Angeles Metropolitan Program | January 2023-June 2023

WORK EXPERIENCE

Project Design Intern | Maedo Architects, Orange County | May 2023 - Sep. 2023
- Drafted site plans for multiple **As-Built** patient treatment facilities across the California Central Valley, using **AutoCAD,** ensuring accurate representation of **property lines, site elements, and conditions** prior to tenant improvements.
- Collaborated with fellow interns to draft and annotate building details in **Revit** for an As-Built assisted living facility in Roseville, organizing drawings into clear, **well-structured sheet layouts** to present to the senior architects.
- Participated in site visits, **collecting precise field measurements** and documenting existing conditions
- Organized past RFIs to utilize as precedents, **referenced HCAI building codes** and county zoning regulations, and researched medical equipment specifications for patient treament facilities.

Architectural Intern | Byben, Los Angeles | Jan. 2023 - Apr. 2023
- Created 3D site models of custom ADUs and homes under the guidance of the firm owner, using **Rhino 3D** to communicate design intent, researching materials for both interior and exterior finishes, applying them to material renders and elevations.
- Drew, annotated and populated floorplans, elevations and sections for homes, utilizing **AutoCAD and Photoshop**.

Lead Student Draftsperson | AG Metrics Group, San Luis Obispo | May. 2022 - Mar. 2023
- Engaged in **interative project design process** with company leadership to develop site plans and elevations **AutoCAD** for the Entomology Annex, incorporating dormitories, shared spaces and lab areas, **refining layouts** to meet the needs of both research and residential spaces.
- Created unique sign designs, organized old project files and **recruited** new members for the student draftsperson team.

Student Technician | CAED Support Shop and Digital Fabrication Lab, San Luis Obispo | Sep 2021 - Jun 2024
- Supervised the support shop and fabrication lab, while managing student access to ensure a safe workspace.
- Conducted safety training sessions for incoming students on machinery including the table saw, planer, band saws, laser cutters, 3D printers, and CNC mills, ensuring proper and safe usage across all fabrication tools.

Architectural History Instructional Student Assistant | Cal Poly CAED, San Luis Obispo | Sep 2023 - Jun 2024
- Led weekly discussions for a student group, encouraging thoughtful analysis of architectural works and historical context.
- Provided academic support through creating tutorials for weekly activities, grading assignments, providing written and verbal feedback, responding to student emails, and holding office hours to address questions and support student success.

ACTIVITIES

Small Business Owner | WhimsybyDibs | https://whimsybydibs.etsy.com | May 2022 - Present
- Launched small business by promoting handmade crochet products through Instagram, taking orders for custom crochet pieces and participating in school functions to increase visibility.
- Opened and managed an Etsy storefront, handling product listings, customer inquiries, and fulfilling orders.

Fifth Year Mentor | Cal Poly CAED, San Luis Obispo | November 2023- June 2024
- **Mentored** two third-year students, advising them about school, professional opportunities, and resources.

Program Participant | AMIGOS de las Americas, Cocle, Panama | Jun. 2018 - Aug. 2018
- C**ollaborated** with two other participants to **lead** after-school programs for the elementary aged students and alongside community members to paint both the school and the water tank.

AWARDS

Seal of Bi-literacy | Proficiency in Spanish and English | Santa Clara County Office of Education | June 2019

Dean's List | California Polytechnic University, San Luis Obispo | Spring 2020, Summer 2020, Spring 2021, Summer 2021, Winter 2023, Spring 2023

SKILLS

Design: Adobe InDesign, Illustrator, Photoshop, Acrobat, **BlueBeam**
Digital Modeling: **AutoCAD, Revit, Rhino3d,** TwinMotion, Lumion, Climate Consultant, Cove Tool
Fabrication: Ultimaker Cura, PrusaSlicer, CNC Milling, Laser Cutting, Wood shop, Metal Shop
Languages: English, Spanish, Nepali

Table of Contents

Studio Projects

Fabrication

Professional

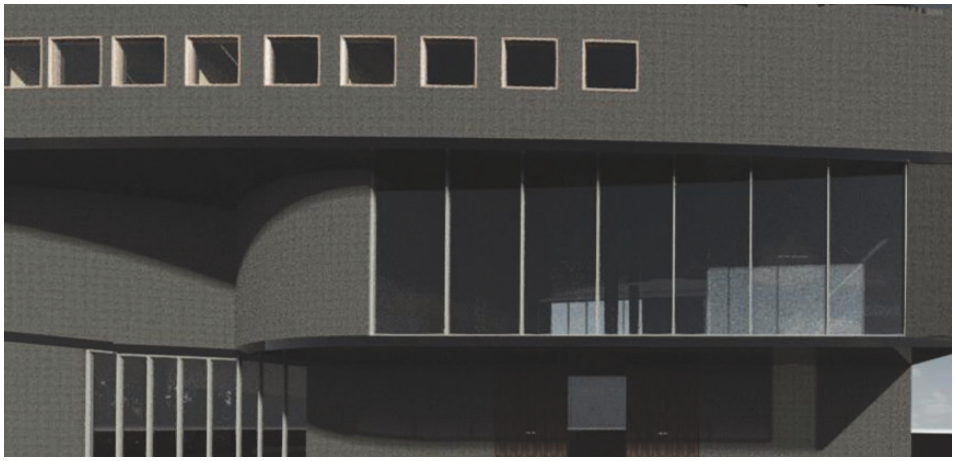
Studio Projects

Studio (n.):
a place that provides support to students who wish to enter the realm of design and support the development of their design thinking

A collection of selected projects from studios taken during my time as a student

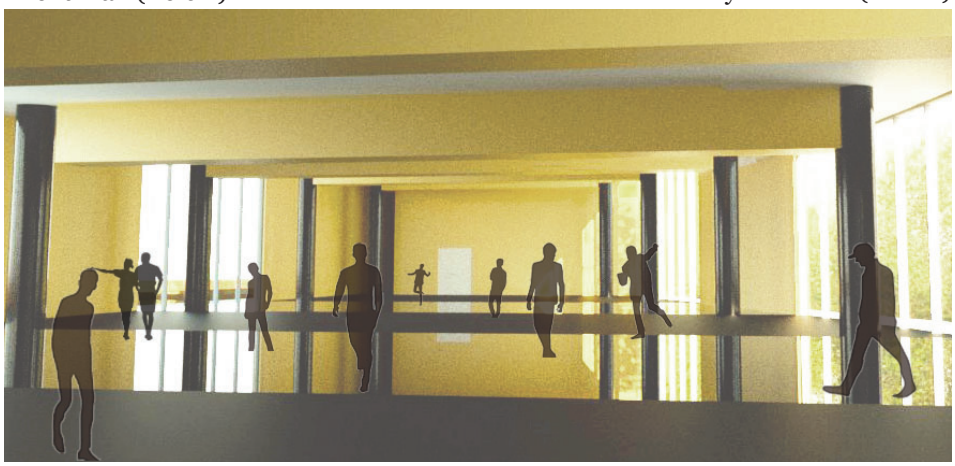
As Above-So Below Embassy Row, Washington DC

As Above-So Below is an Embassy of Bhutan which features **two hydropower strategies**: a pumped storage hydropower system and a rainwater harvesting roof. Both employ turbines which are turned by **the movement of the water** flowing past them which in turn generates electricity that can be stored and used on-site as needed, reducing strain on the electrical grid. The goal of the embassy is to represent the respect that Bhutan has for nature and water through the **unique interactions** visitors can have with water when they come to the embassy.

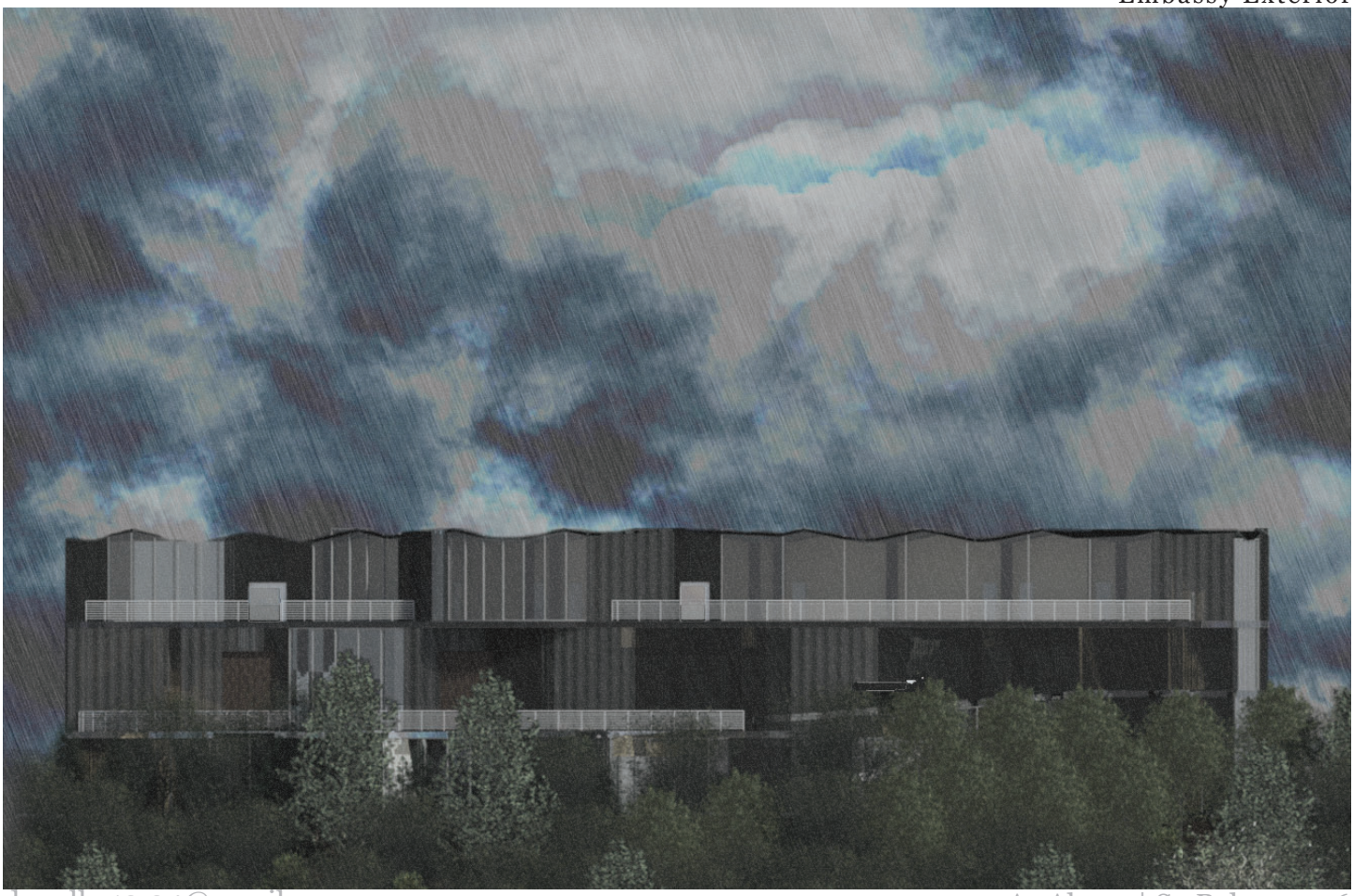


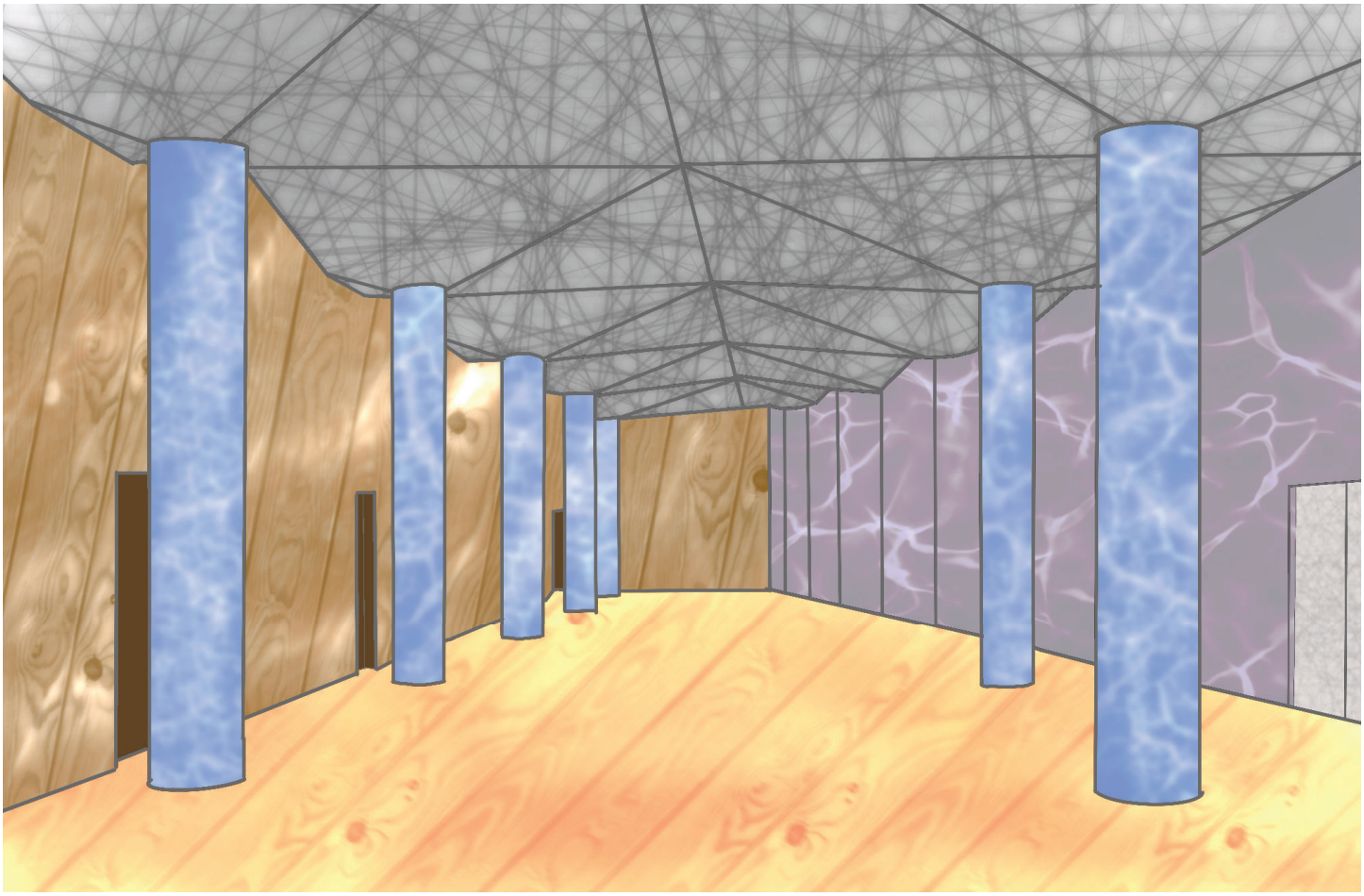
Event Hall (Below)

Embassy Entrance (Above)

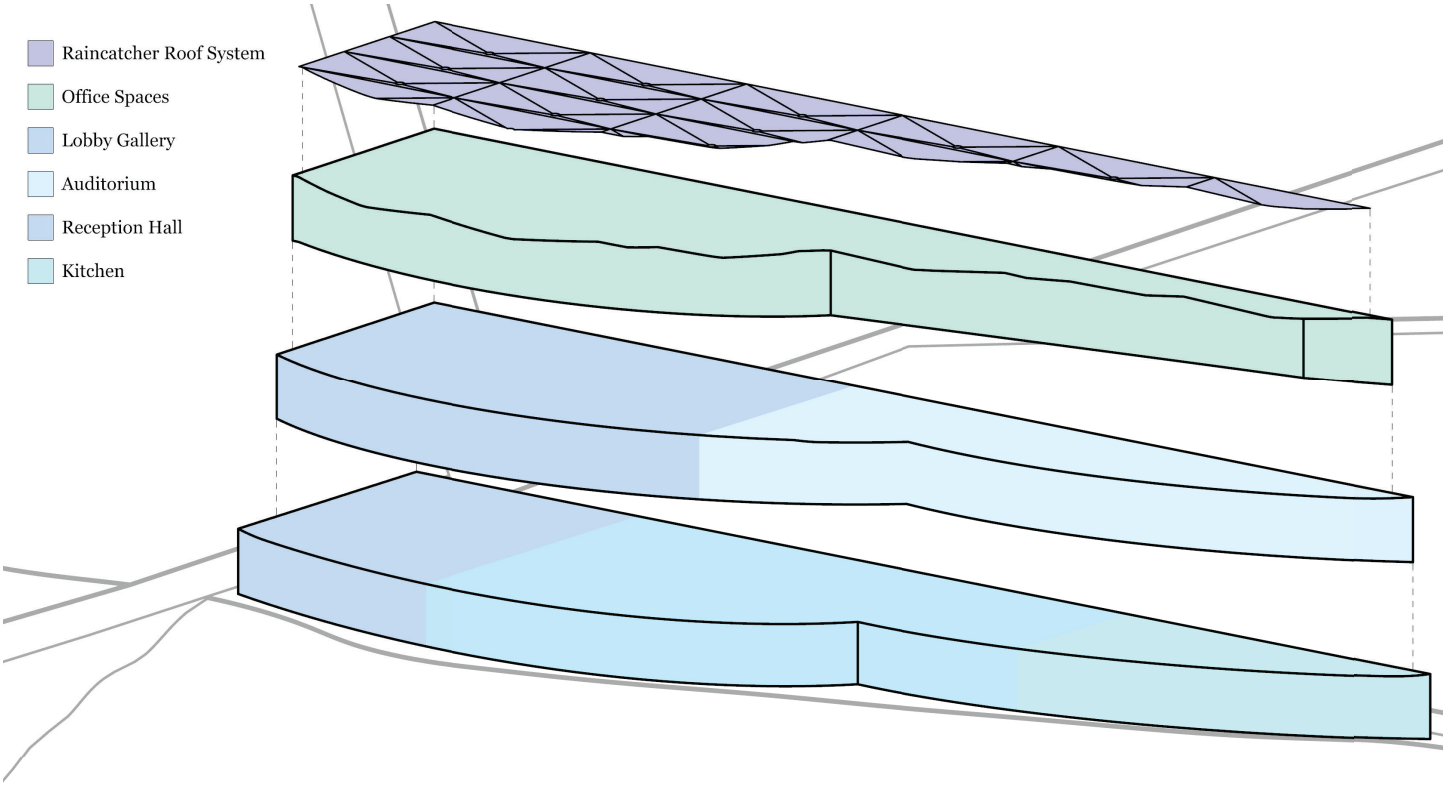


Embassy Exterior



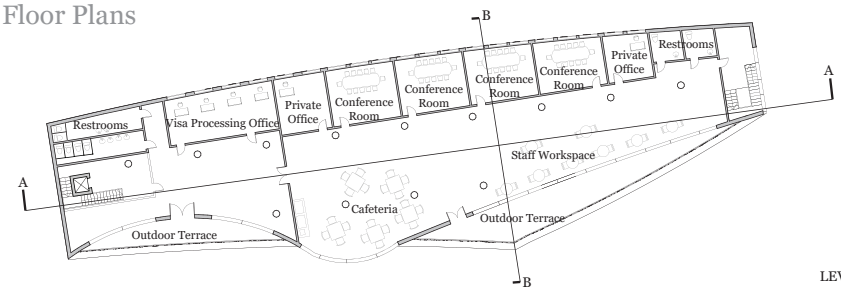


Raincatcher System Vignette

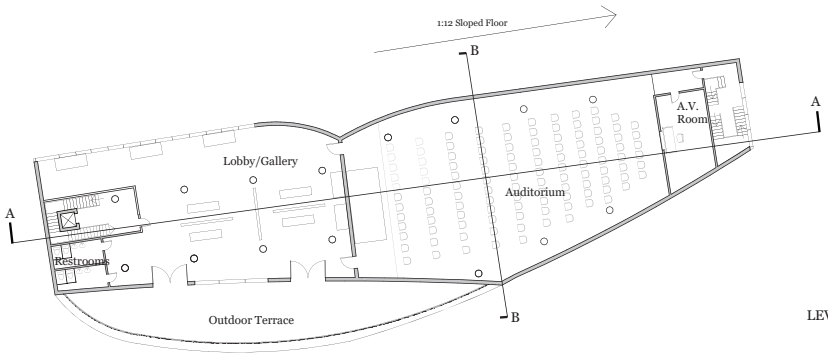


Program Distribution Diagram

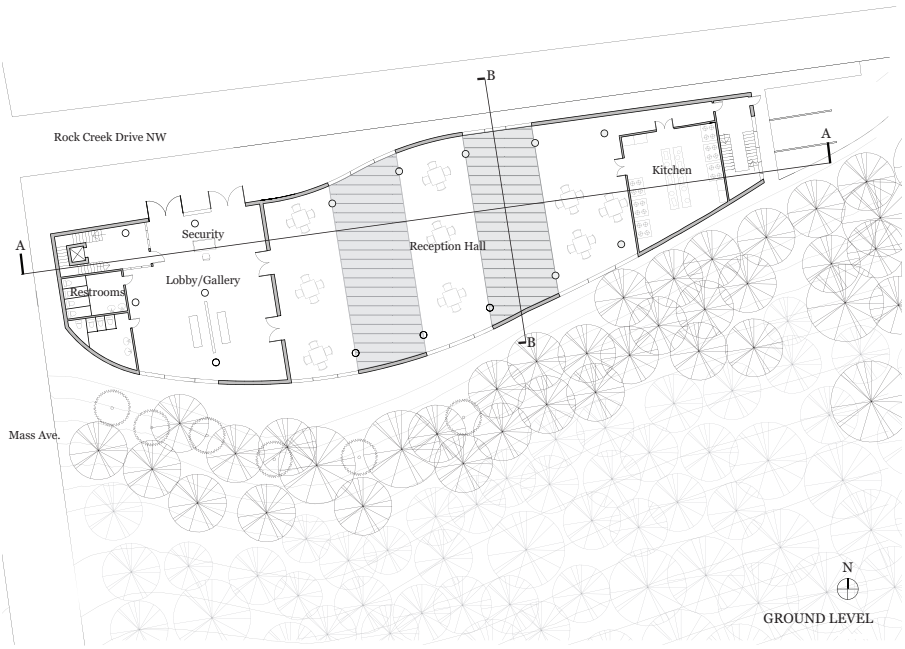
Floor Plans



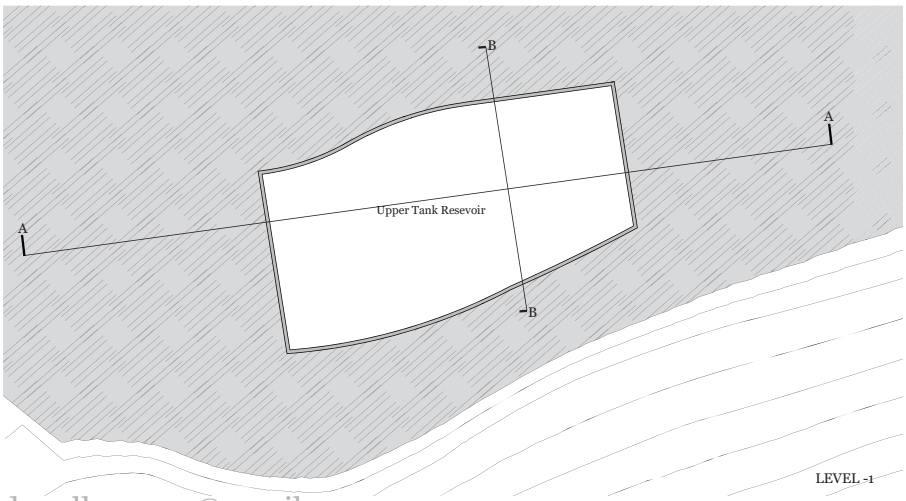
LEVEL 3



LEVEL 2

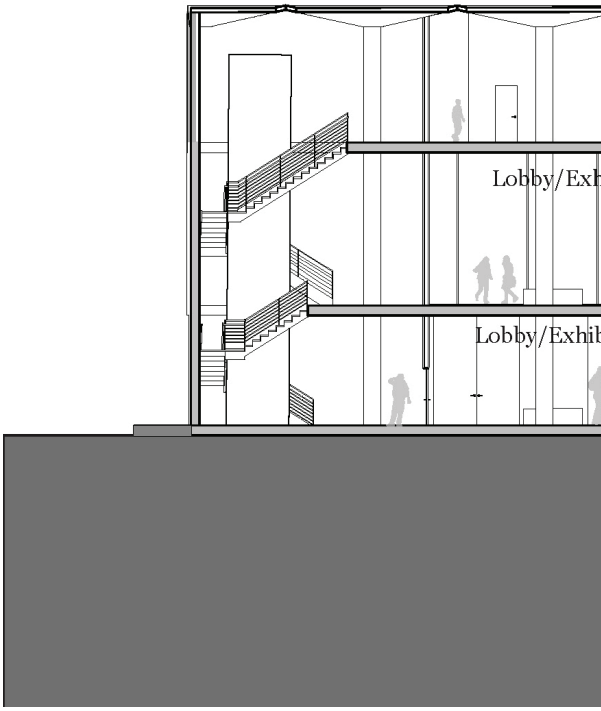


GROUND LEVEL

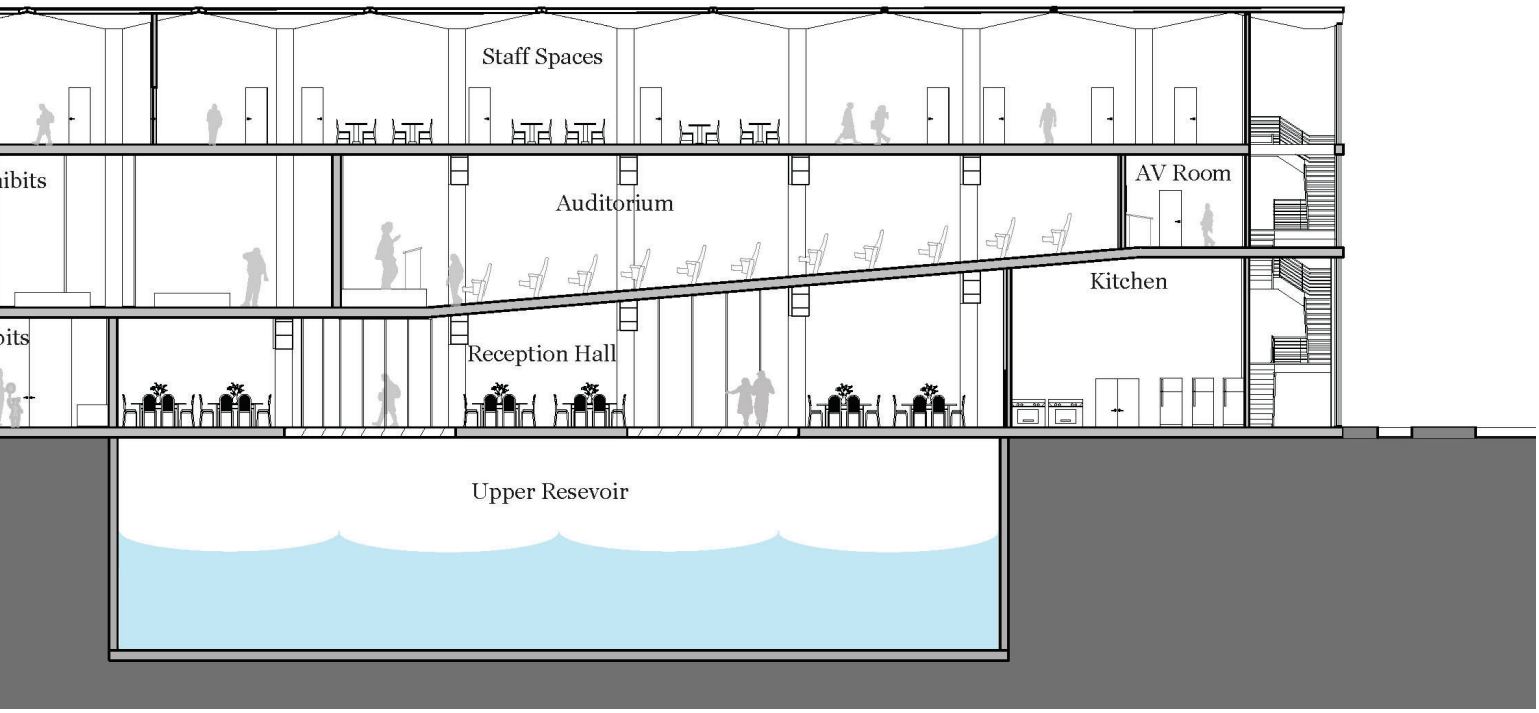


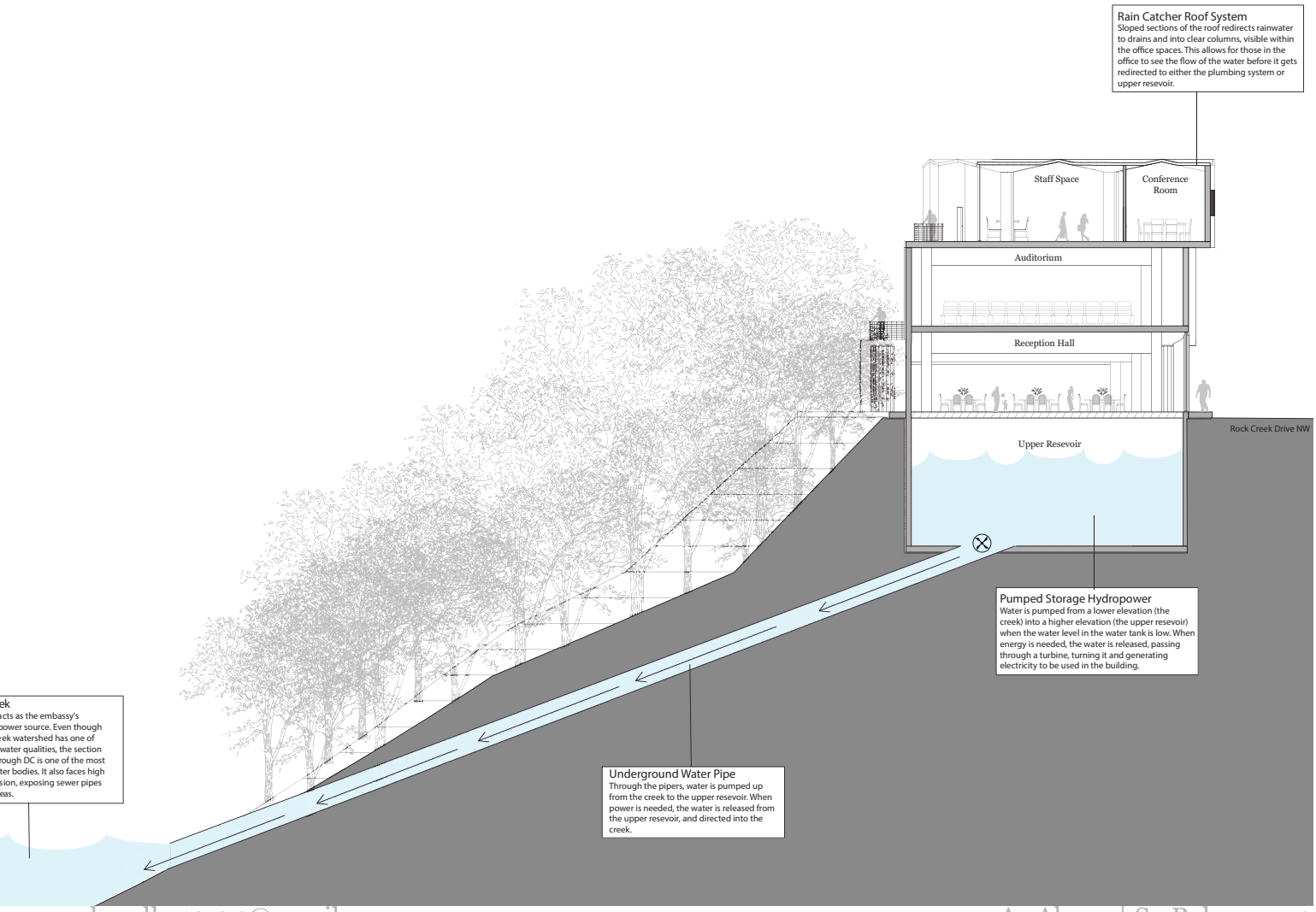
LEVEL -1

Transverse Section



Integrated Longitudinal Section


Staff Spaces
ibits
Auditorium
AV Room
Kitchen
its
Reception Hall
Upper Resevoir


Rain Catcher Roof System
Sloped sections of the roof redirects rainwater to drains and into clear columns, visible within the office spaces. This allows for those in the office to see the flow of the water before it gets redirected to either the plumbing system or upper resevoir.
Staff Space
Conference Room
Auditorium
Reception Hall
Upper Resevoir
Rock Creek Drive NW
Pumped Storage Hydropower
Water is pumped from a lower elevation (the creek) into a higher elevation (the upper resevoir) when the water level in the water tank is low. When energy is needed, the water is released, passing through a turbine, turning it and generating electricity to be used in the building.
Underground Water Pipe
Through the pipers, water is pumped up from the creek to the upper resevoir. When power is needed, the water is released from the upper resevoir, and directed into the creek.

Building Blocks | Los Angeles, CA

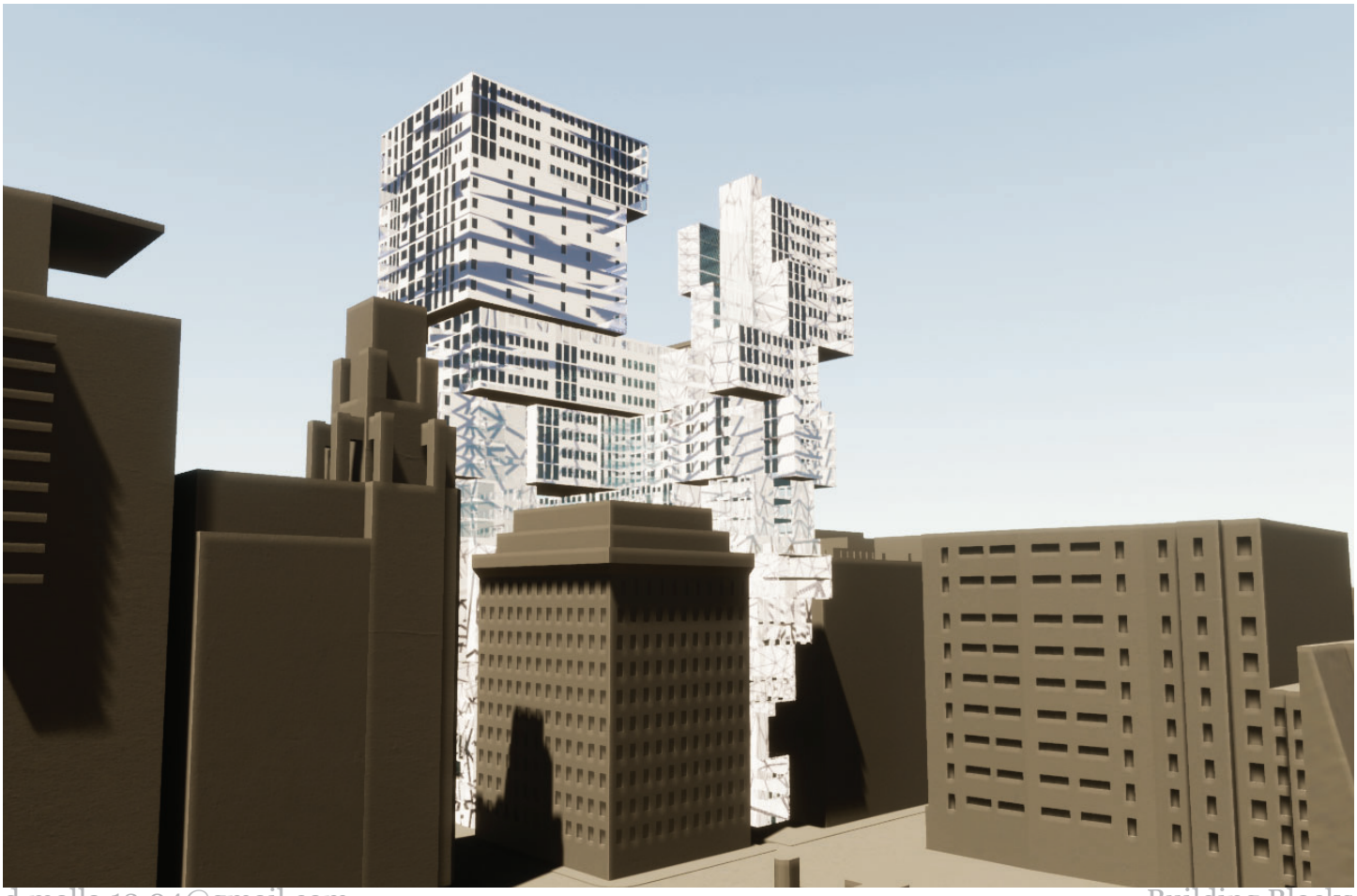
BUILDING BLOCKS is a mixed-use high-rise that integrates public services, retail, and housing into a unified urban form. Inspired by Steven Holl's Alphabetic City, its interlocking volumes shift and stack to respond to programmatic demands and extend beyond the property line. This spatial strategy creates a bold, layered form that engages the surrounding cityscape and blurs the boundaries between public and private.

Courtyard

Connection to the Perch

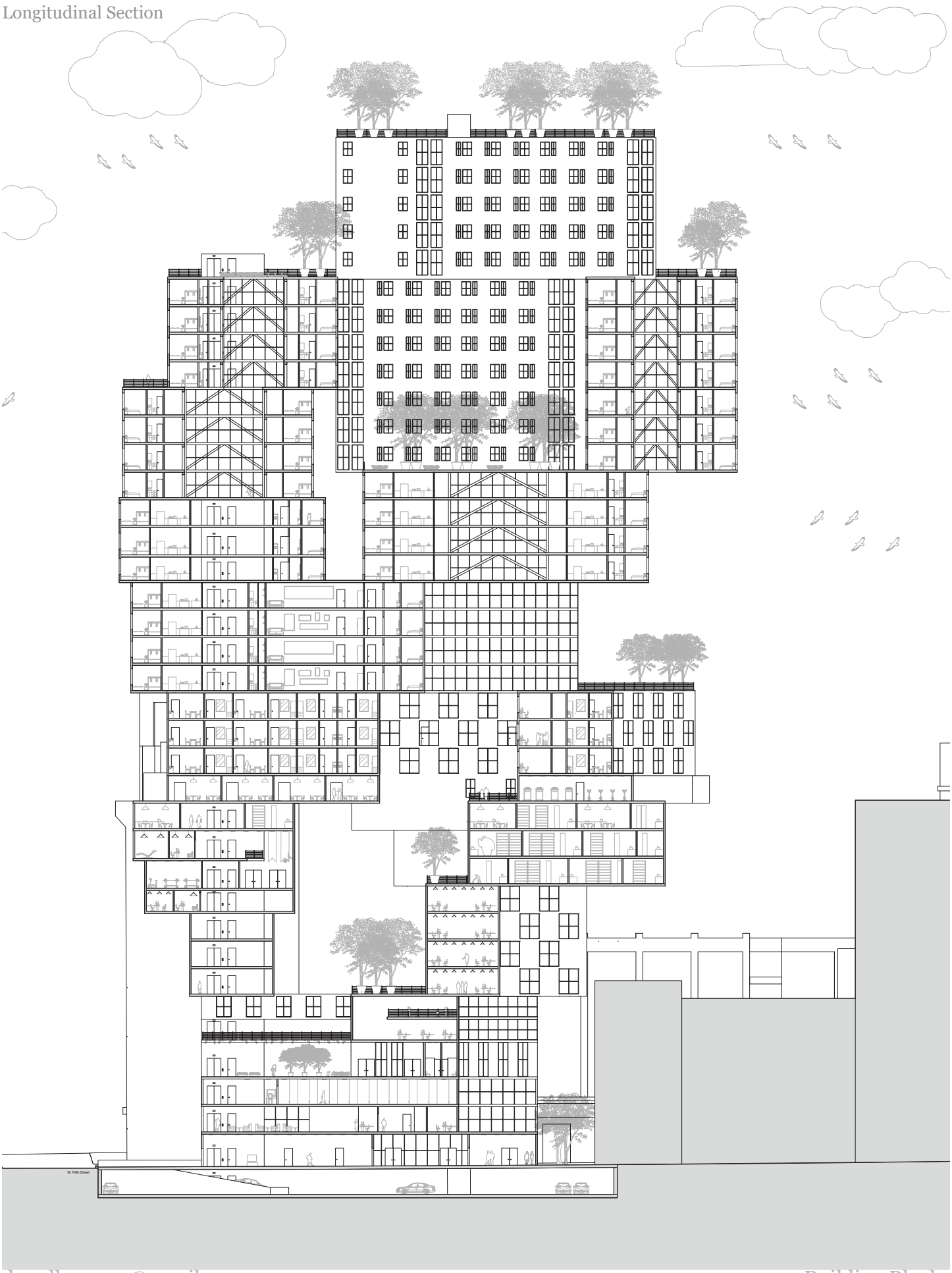
Exterior View

Lightwell

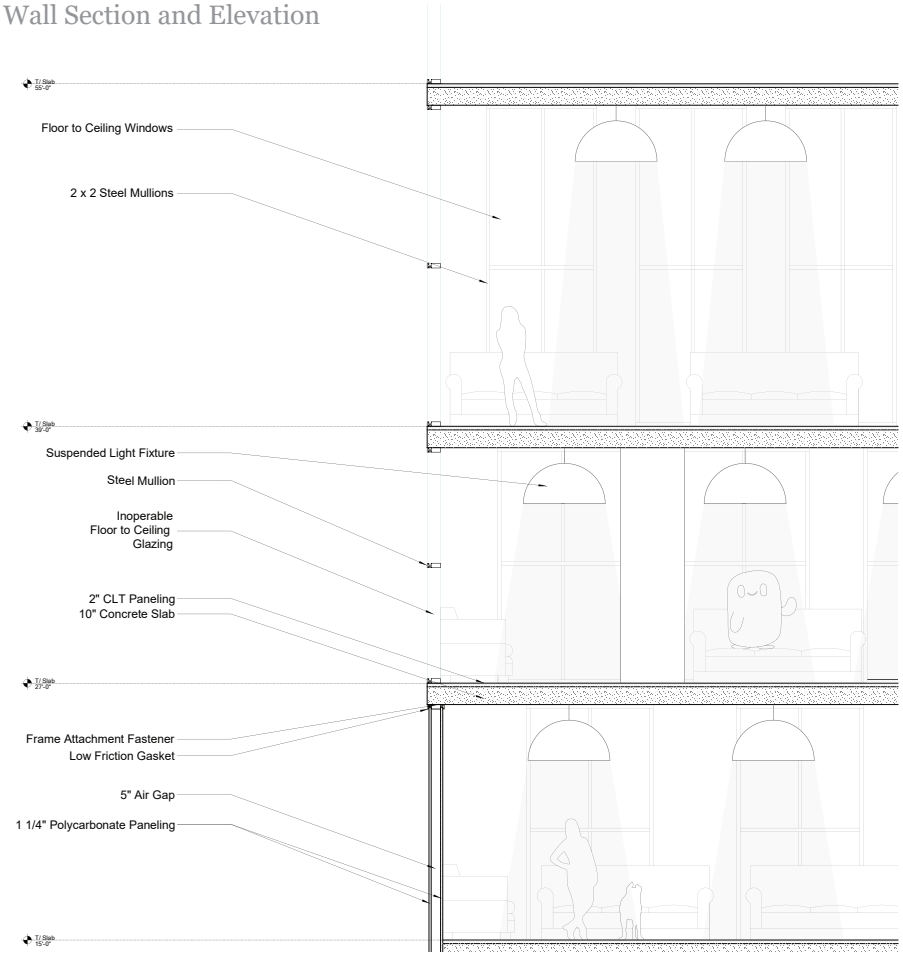


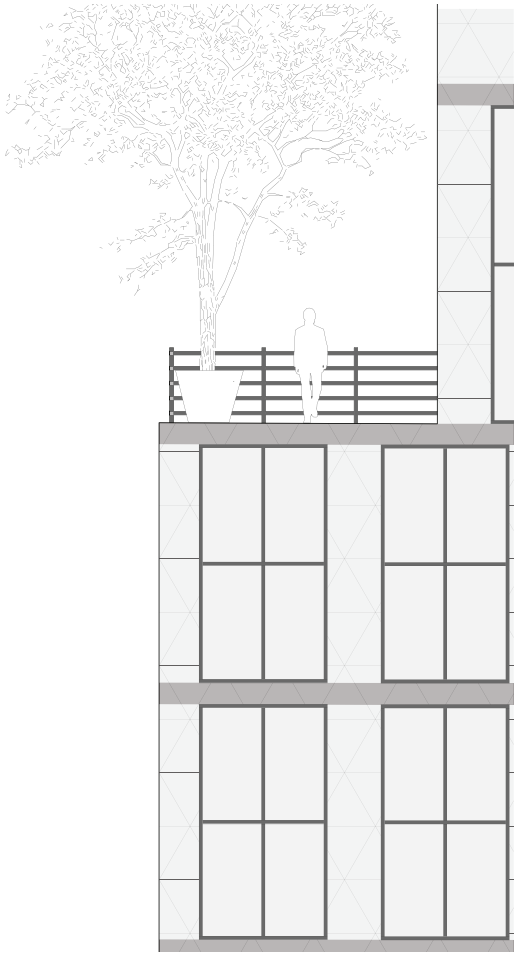
d.malla.12.04@gmail.com

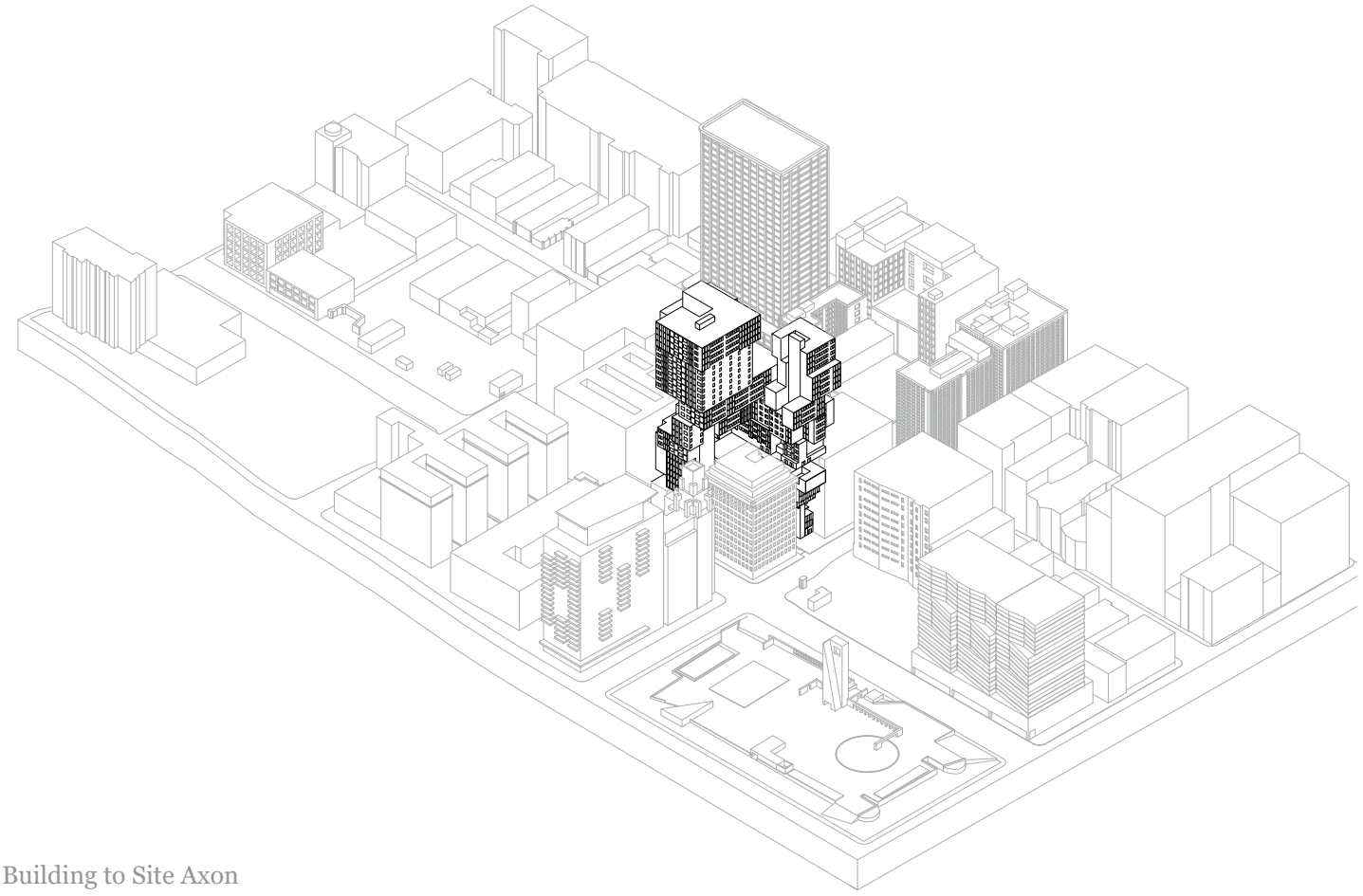
Longitudinal Section



Wall Section and Elevation







Building to Site Axon

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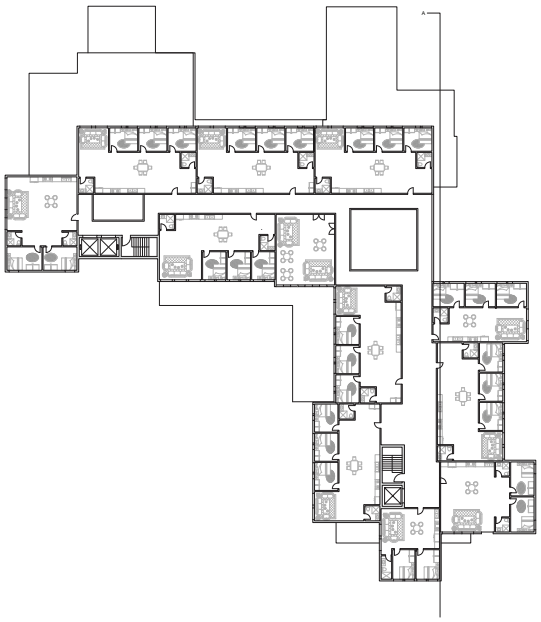
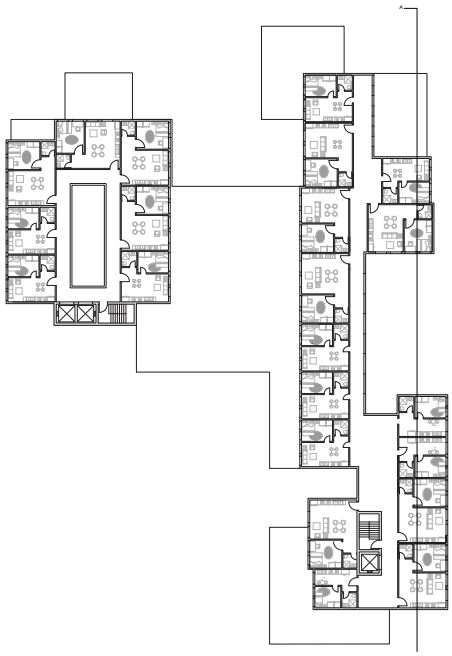
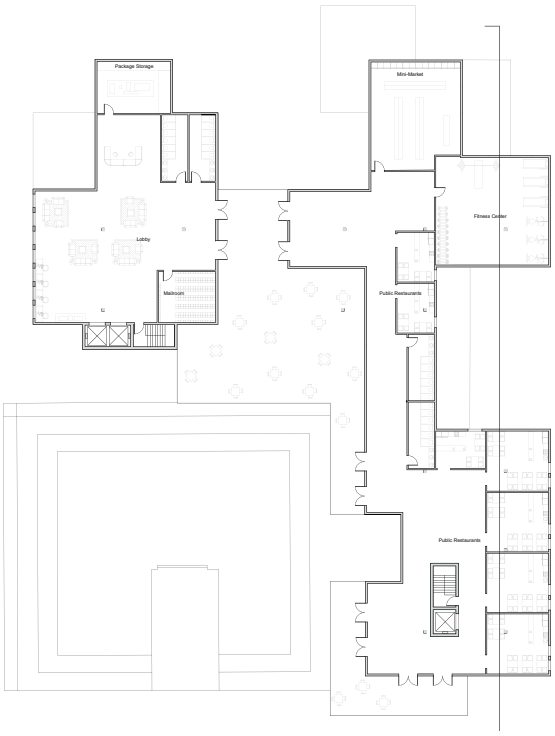
Typical Residential Floors

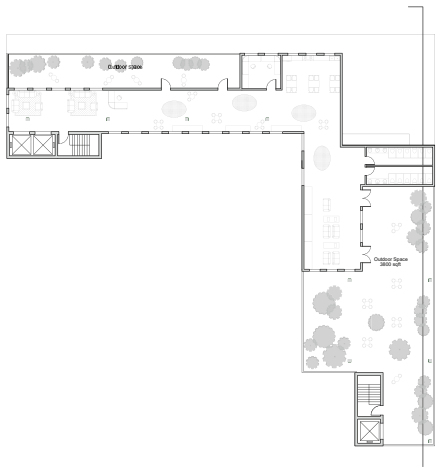




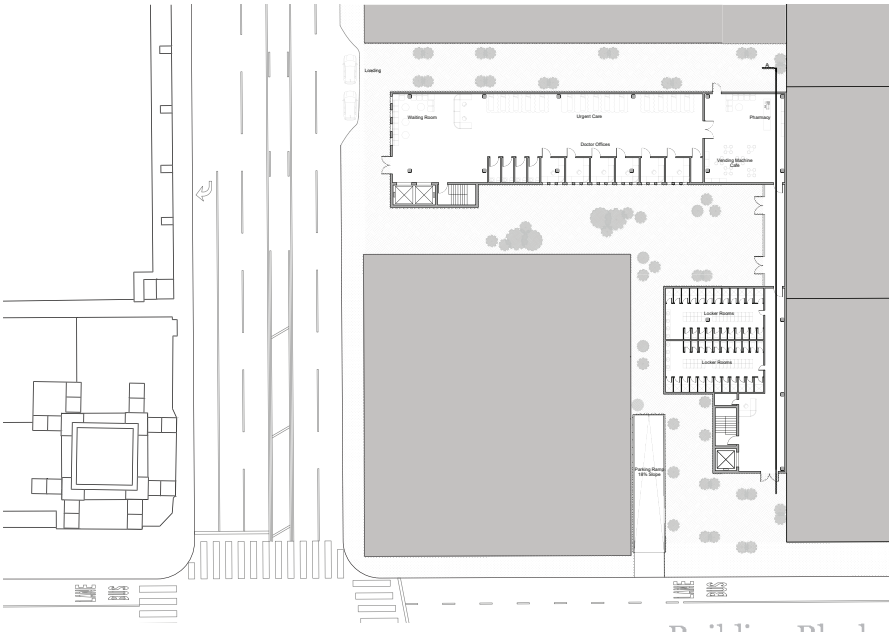
Connection to Perch



Second Floor



Ground Floor



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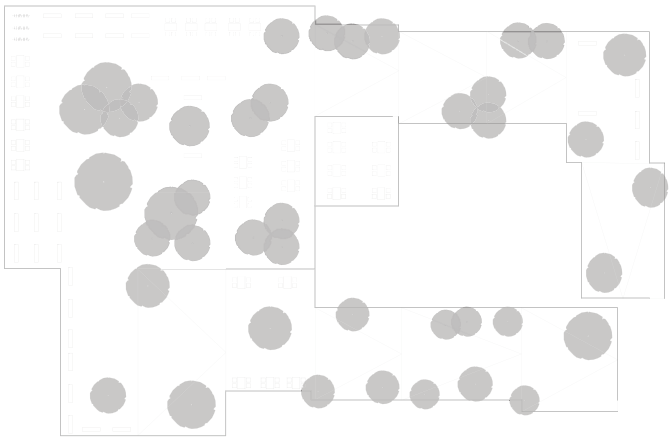
[UP] cycle
Fuquay-Varina, North Carolina

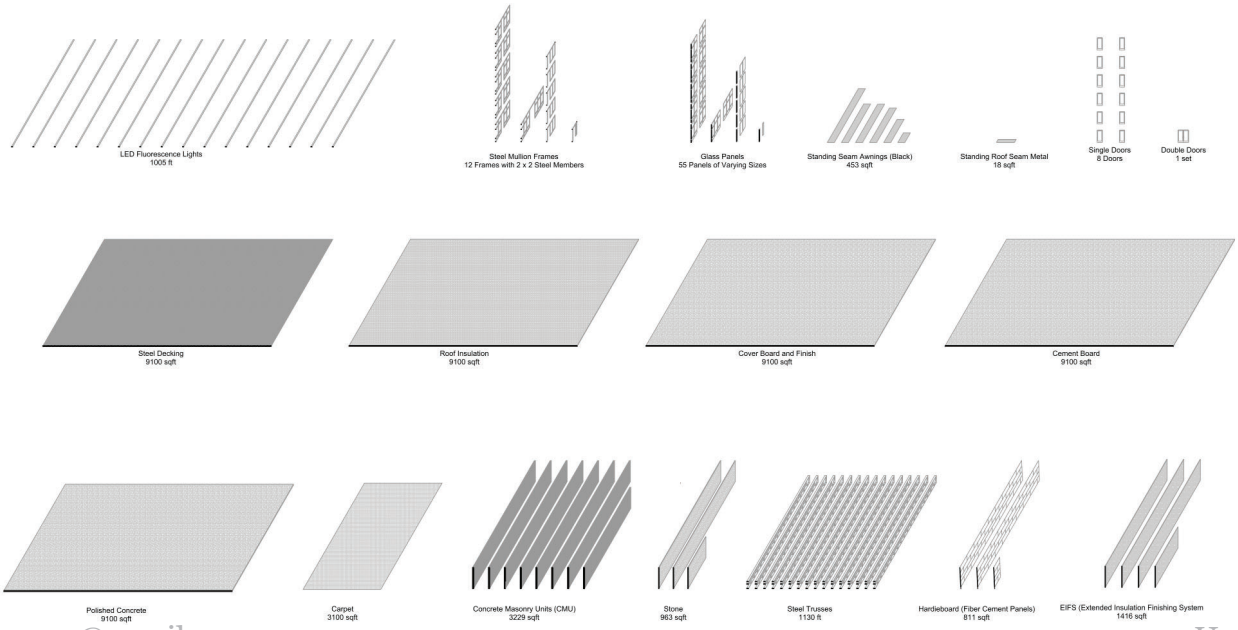
[UP]cycle aims to create a closed loop material use system with an existing big-box store through the process of **disassembly, inventory, and reassembly,** utilizing all of the building elements to takeover a timeless symbol of overconsumption and **redesign a building with zero material waste**.[UP] cycle acts as a one-stop space for material donations and recycling, material/textile oriented retail and a crafting center to support visitor projects and work. Additionally, [UPcyle works to serve as the initial example for future **"big-box takeovers"** through its demonstration of the architectural upcycling process, allowing for the cycle to repeat itself in the same site and other sites as well.

Roof



Ground Floor

Material Assembly Toolkit



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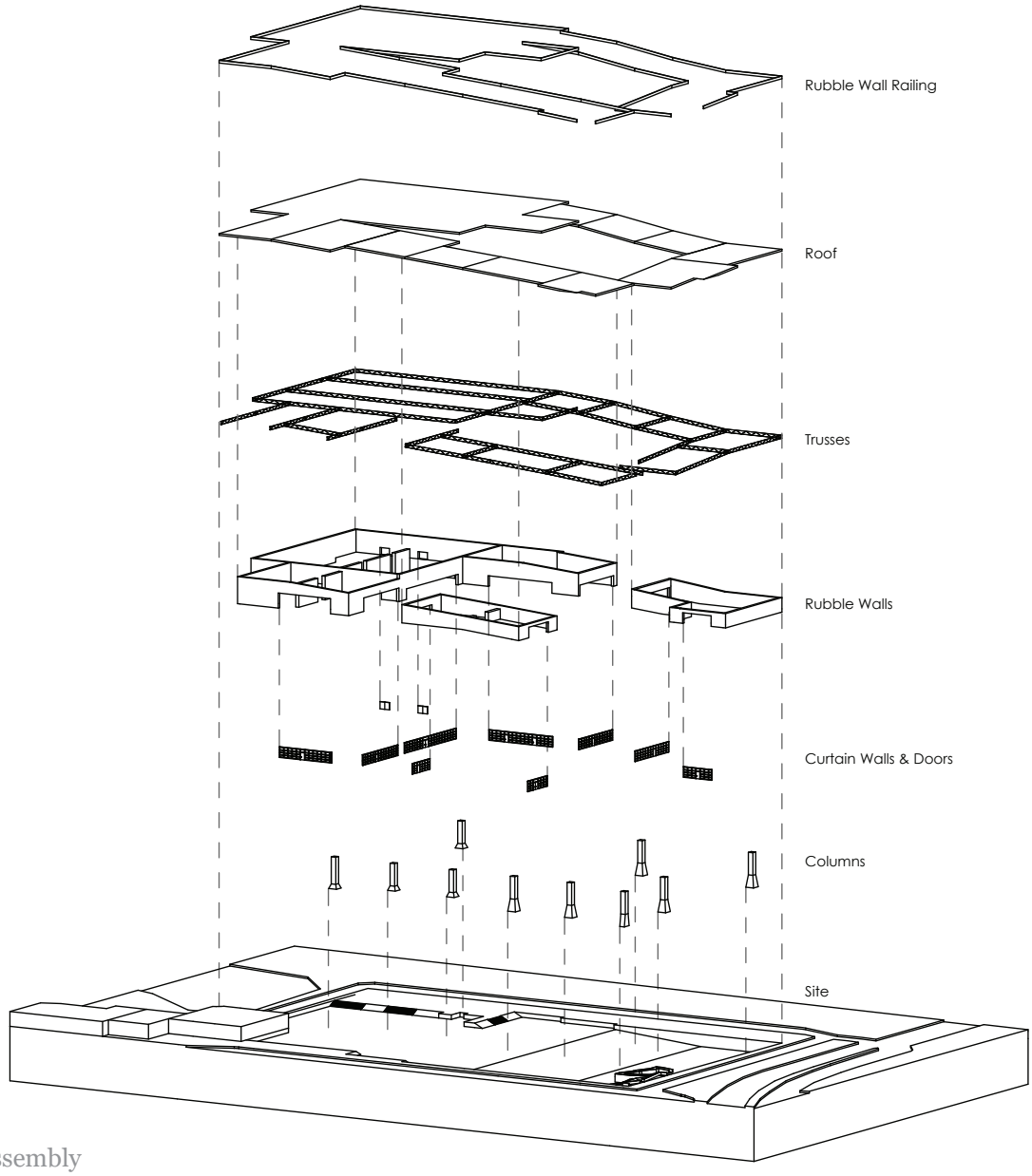
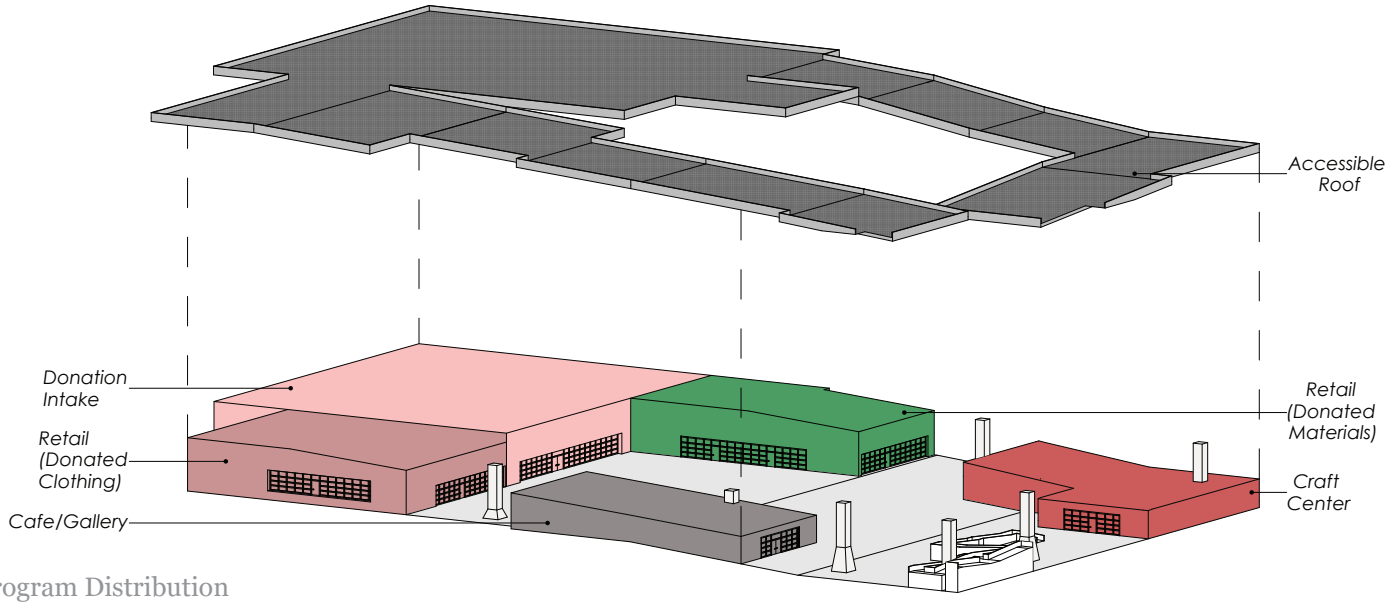
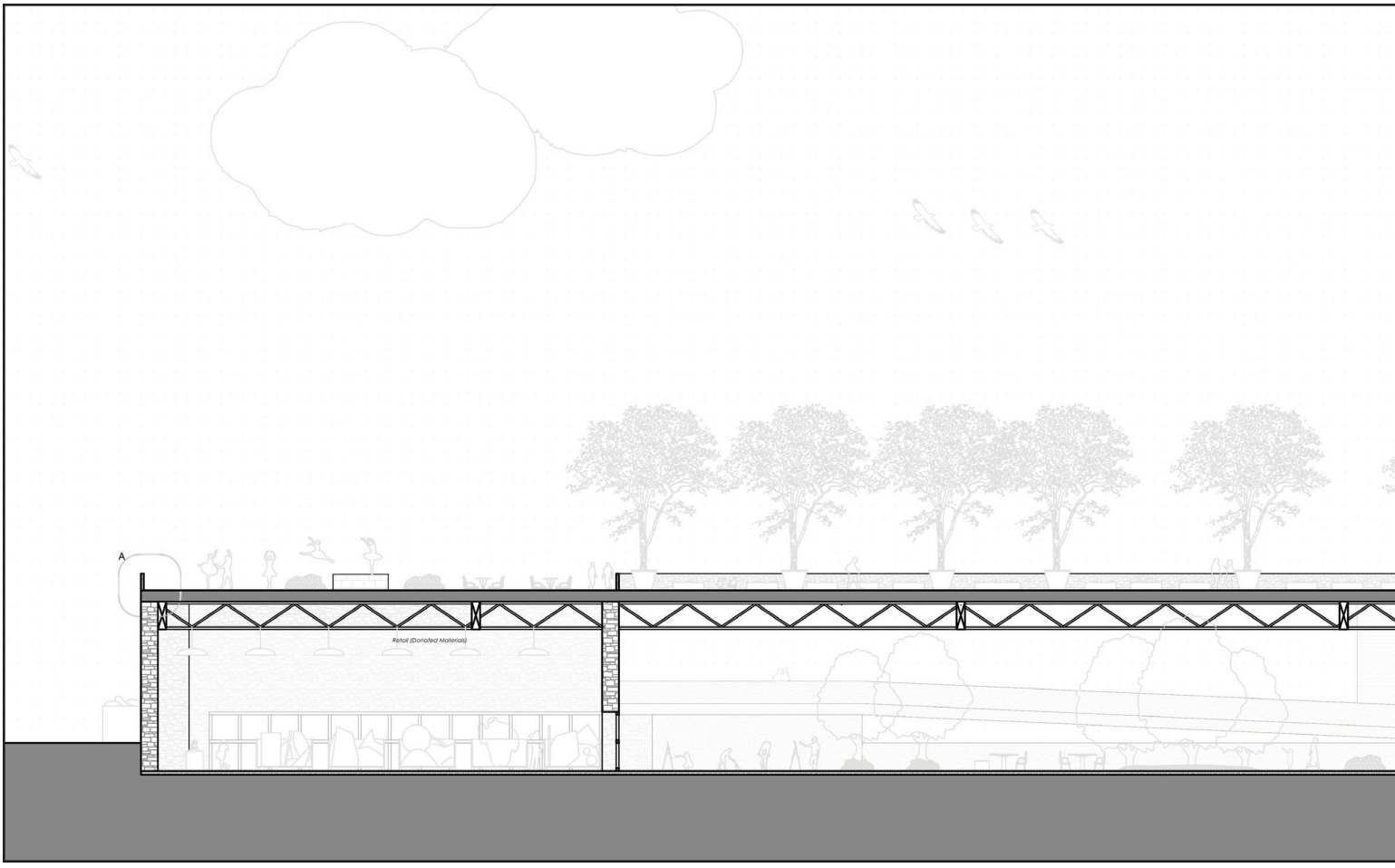


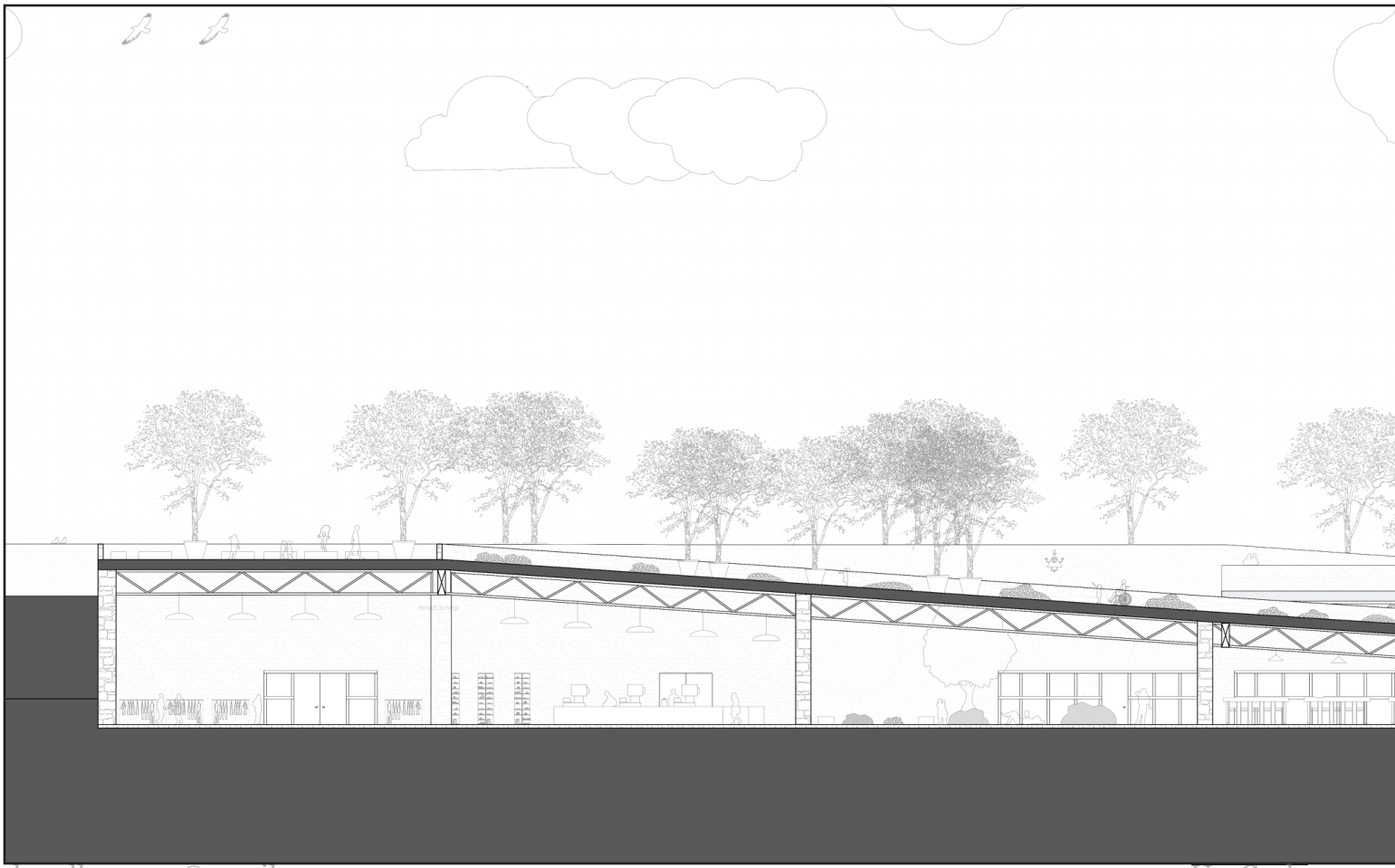
Building [RE]assembly



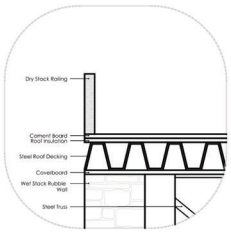
Program Distribution

d.malla.12.04@gmail.com

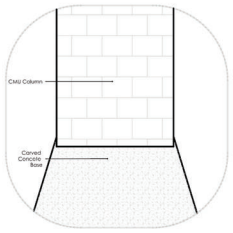

A
Retail (Donated Materials)



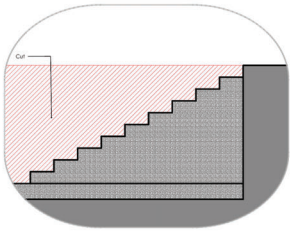
Details



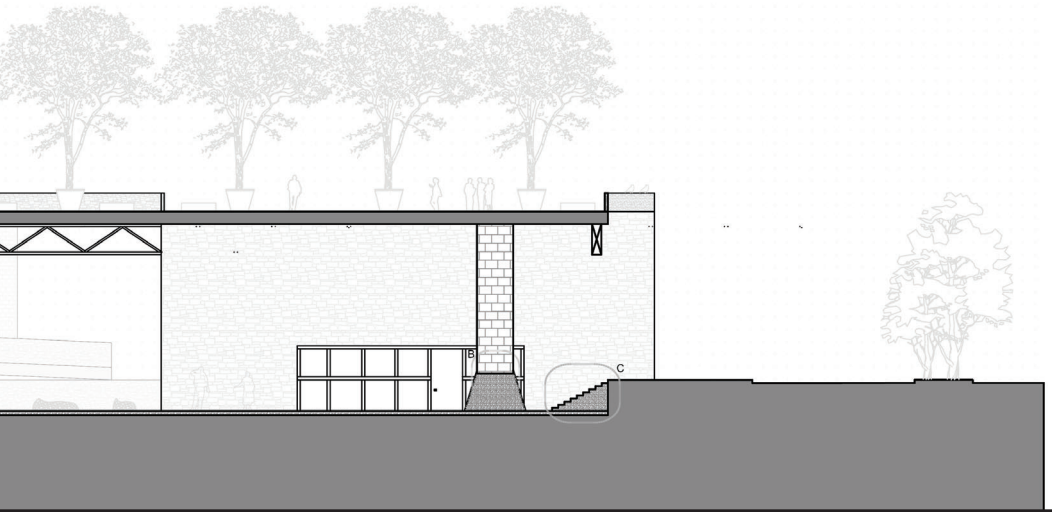
A: Roof

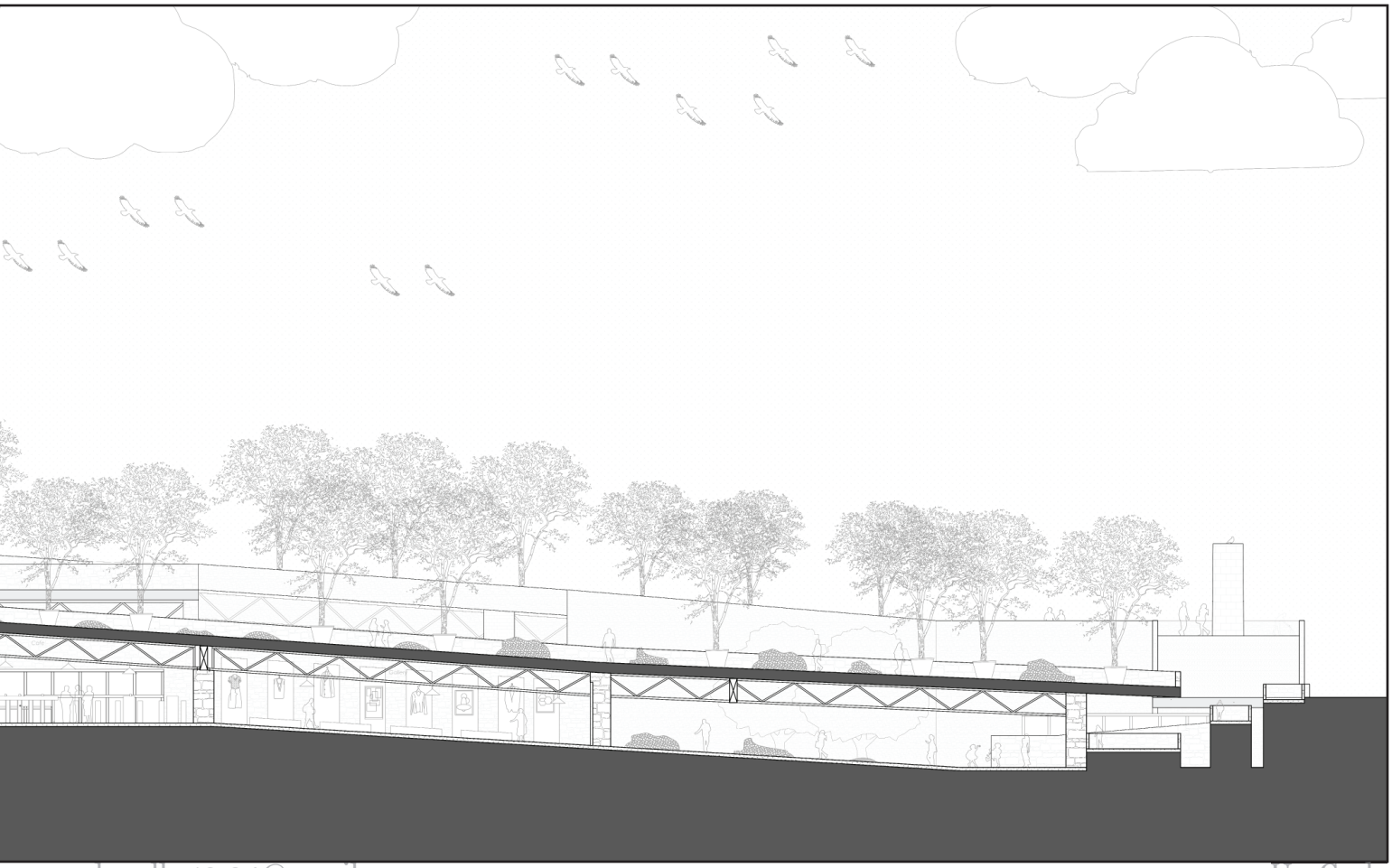


B: Column and Base



C: Cut and Fill





Grow-Create

Los Angeles, California

Project Collaborators: Dibya Malla, Kelly Campos

GROW-Create is where the garden and creativity landscape meet, focusing on the **integration of vegetative and creative spaces.** Through the collective conception of the project by Campos and myself, we designed a space for the **makers of the world** from a variety of practices, including the visual arts, performing and culinary arts. With this in mind, we focussed on giving these makers a space to **flourish alongisde a garden.** GROW-Create features spaces to support artists of all types as well as vegetation speckled throughout the building that can flourish alongisde the work of the building visitors.

Tree of Life Charette

Building Exterior

Rooftop Garden (Above)

Artist Loft (Below)

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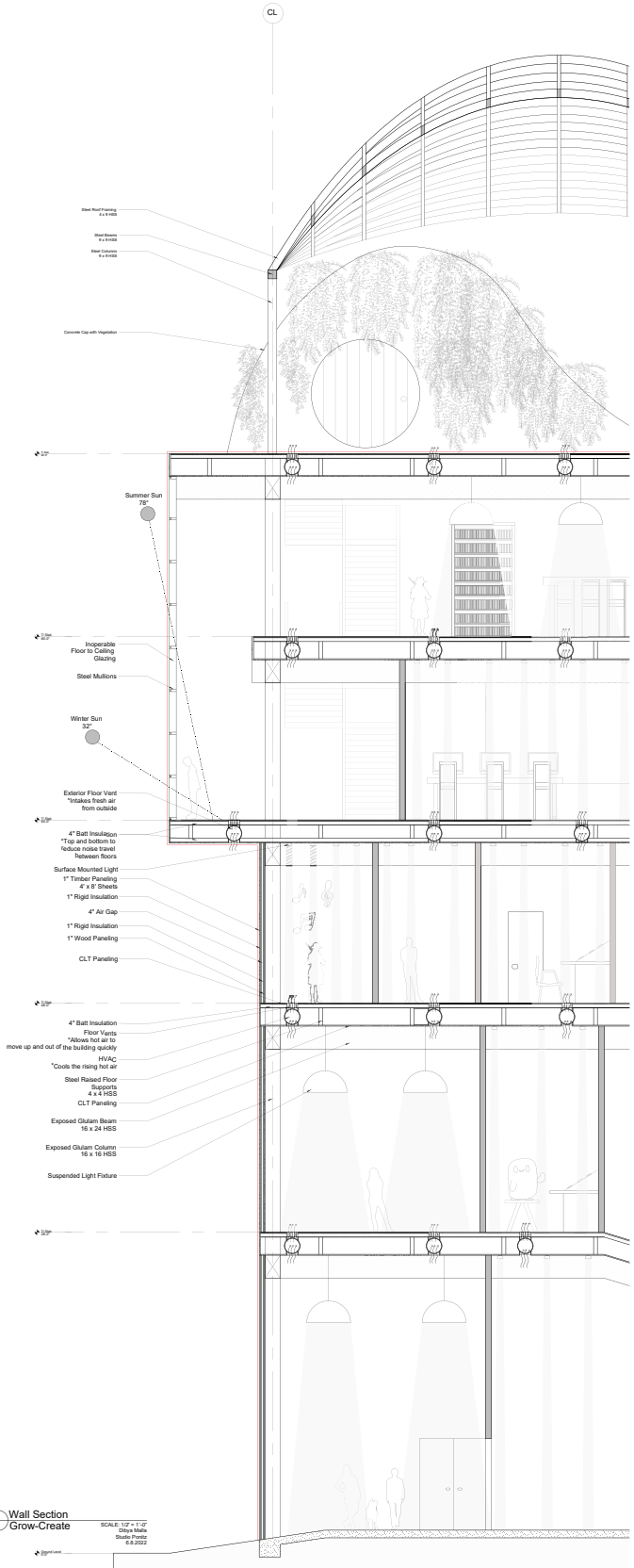
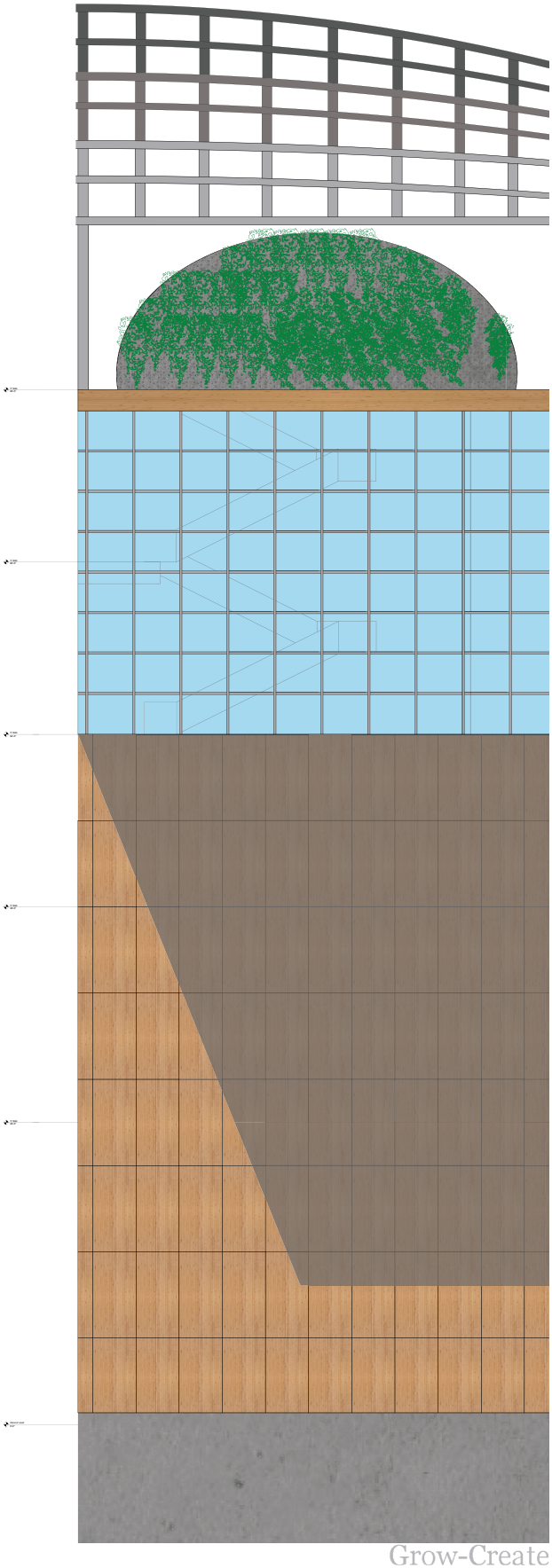
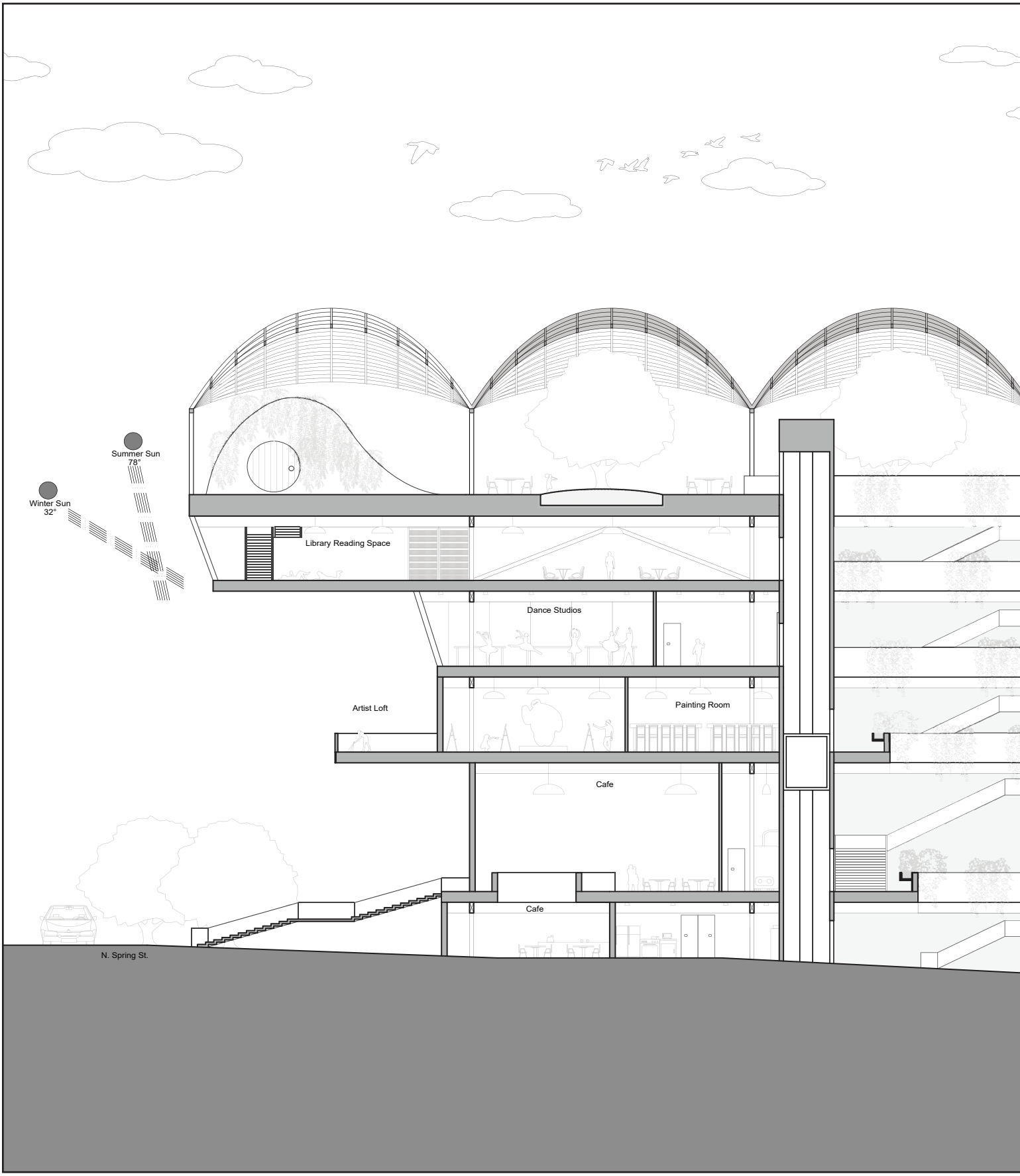


Wall Section
Grow-Create

SCALE: 1/2" = 1'-0"
Dilya Malla
Studio Portiz
8.8.2022




Summer Sun
78°
Winter Sun
32°
Library Reading Space
Dance Studios
Artist Loft
Painting Room
Cafe
Cafe
N. Spring St.


Library Study Space
Library Study Space
Computer Lab
Computer Lab
Control Room
Live Room
Mix Room
Mix Room
Live Room
Control Room
Back Room
Theater
Control Room
Lobby
Resource Center
N. Main St.

Fabrication

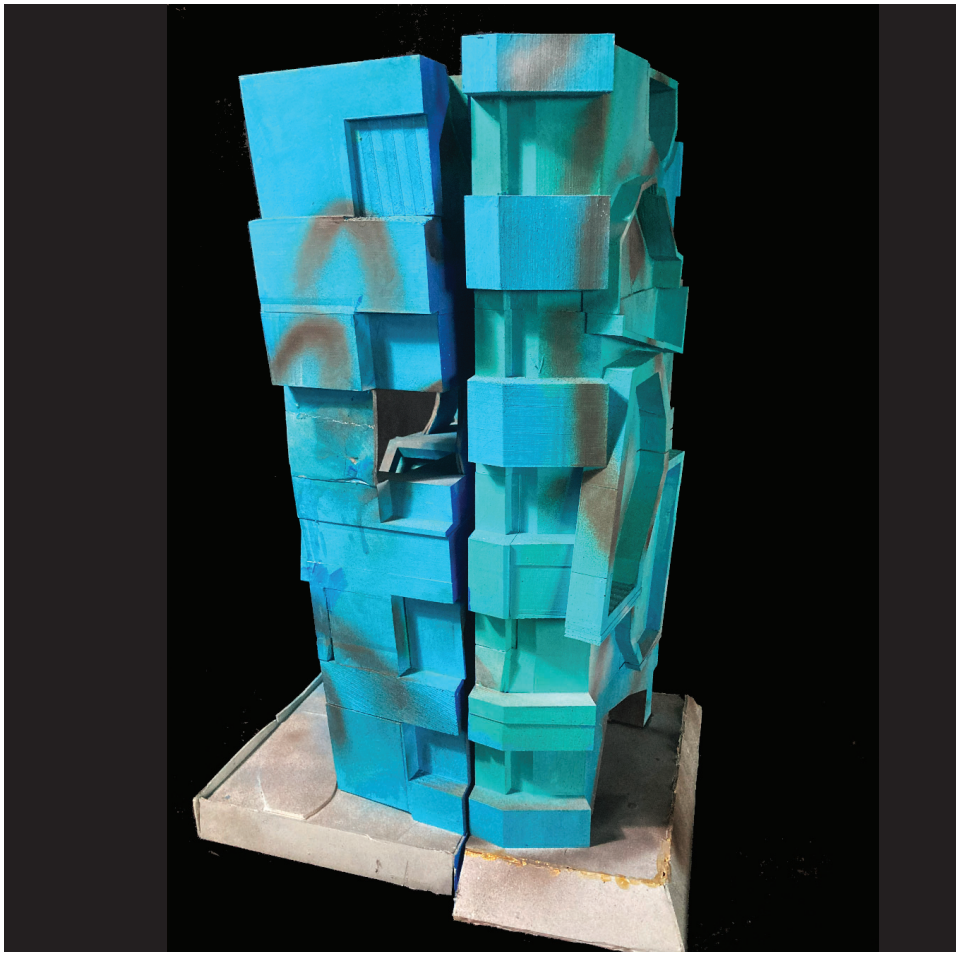
Fabrication (n.):
the action or process of manufacturing or inventing something.

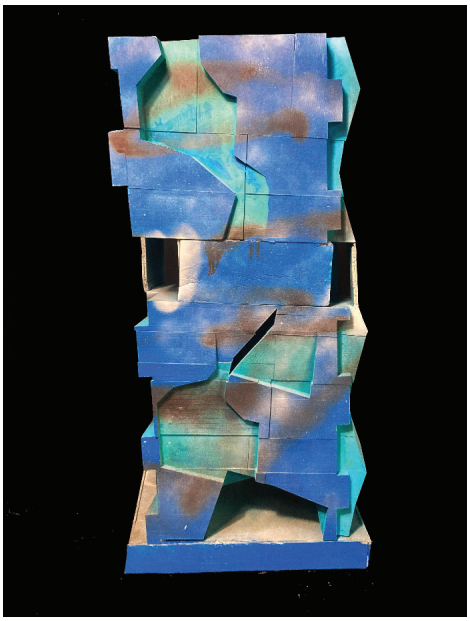
A collection
of physical
pieces that
employ
various
methods
to bring
them into
the physical
realm from
conception

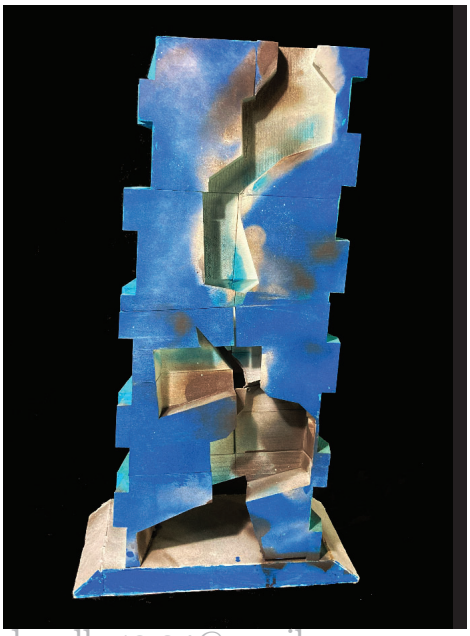
Lost in Hues of Blues

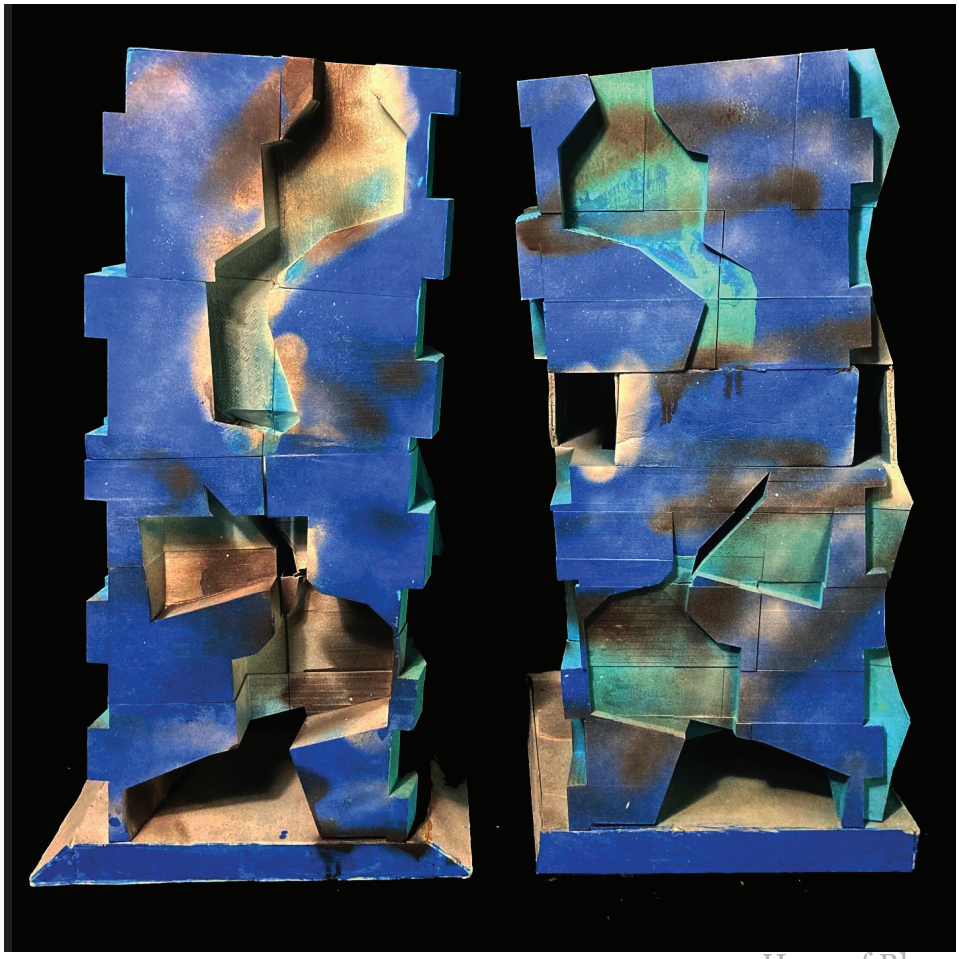
Dissimuluation (n.)
the act of hiding one's true feelings, intentions, or nature by pretending or acting deceptively
Dissimulation (v.)
to disguise or conceal under a false appearance; to dissimulate one's true feelings

Lost in Hues of Blues is a response to an exercise in **form exploration** and ideation through the incorporation of the action of **dissimulation.**





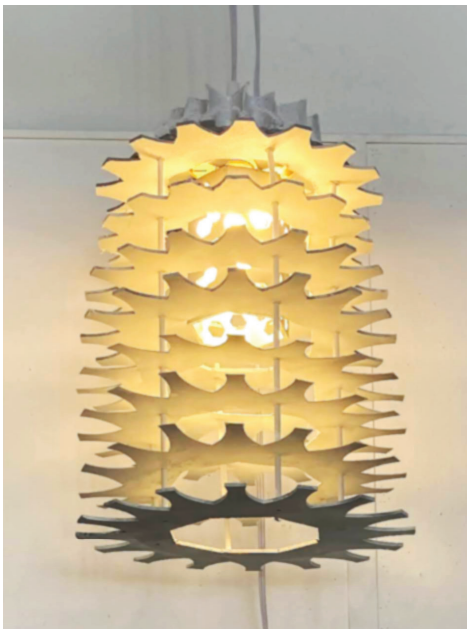


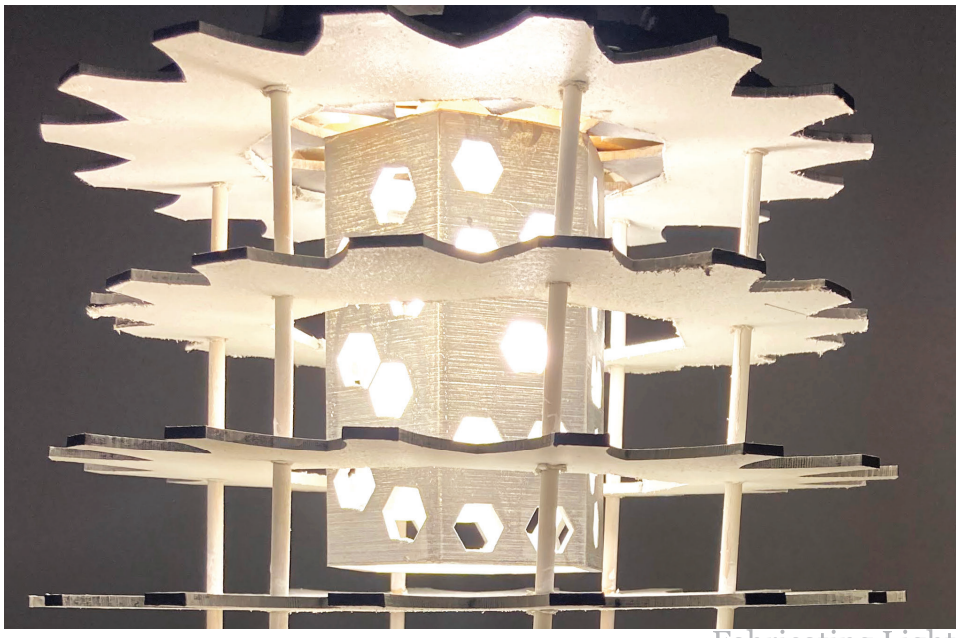


Fabricating Light

Project Collaborators:
Dibya Malla, Maria Imelda Torres

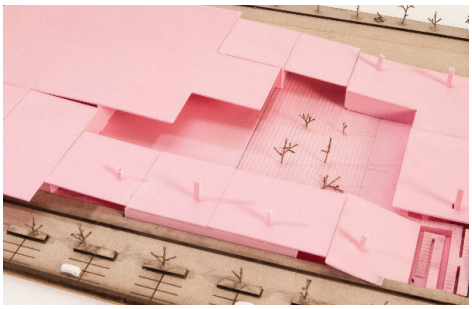
Fabricating Light is a lantern that features components designed, modeled and assembled through the use of **digital fabrication techniques.** Methods employed in creating the components of this lantern include **laser cutting, cnc milling and 3d printing.**

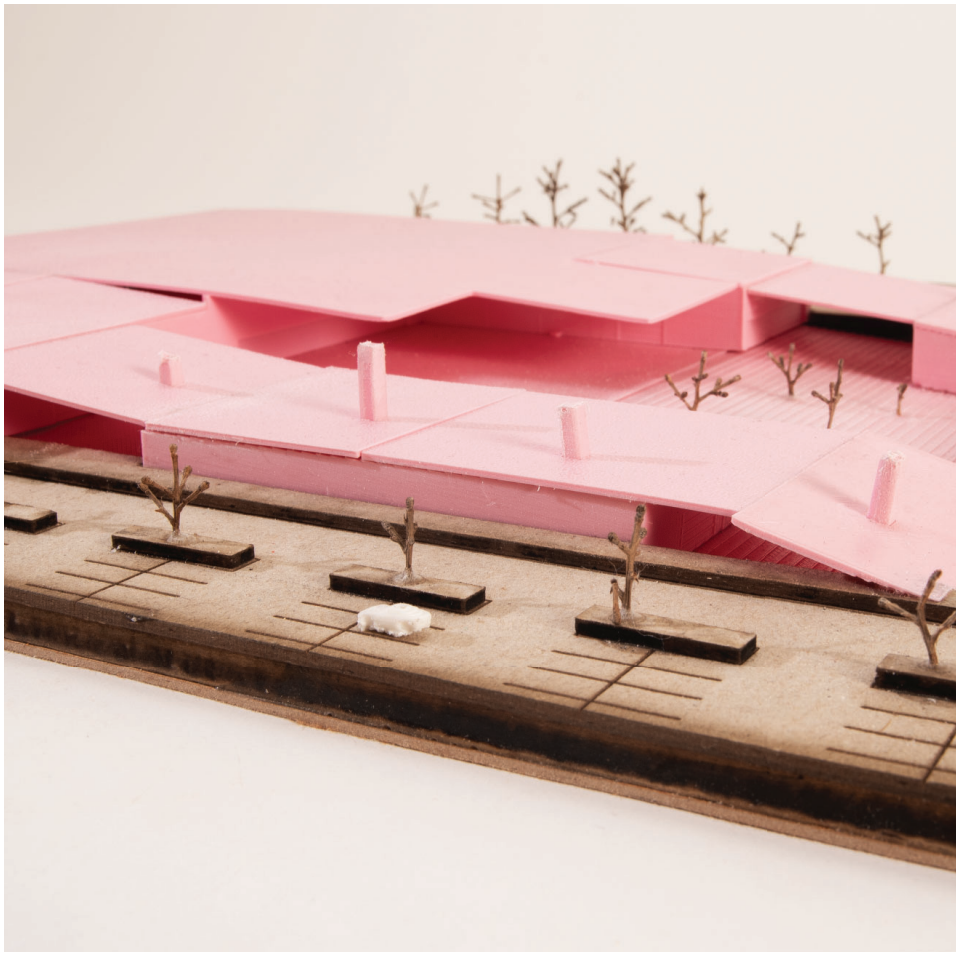


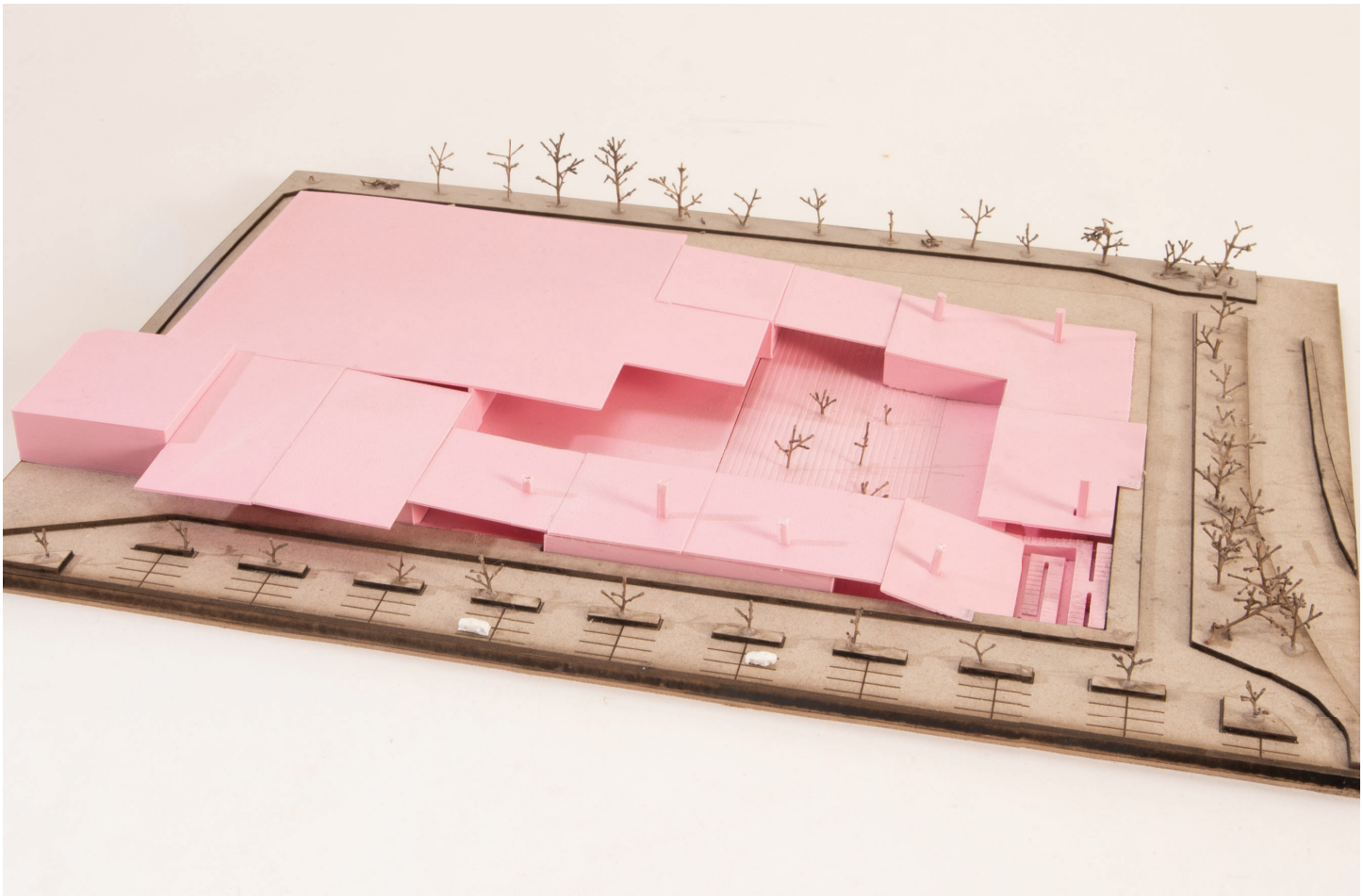


Pretty in Pink

Pretty in Pink is a **building to site model** of [UP]cyle, a material recycling facility located in Fuqay, North Carolina. [UP]cycle embodies the possibilities when the idea of **upcycling and resconstruction** is applied to existing buildings, utilizing the materials available on-site
Created as one of two thesis models for [UN]wrap, [UP]cycle, [RE]peat

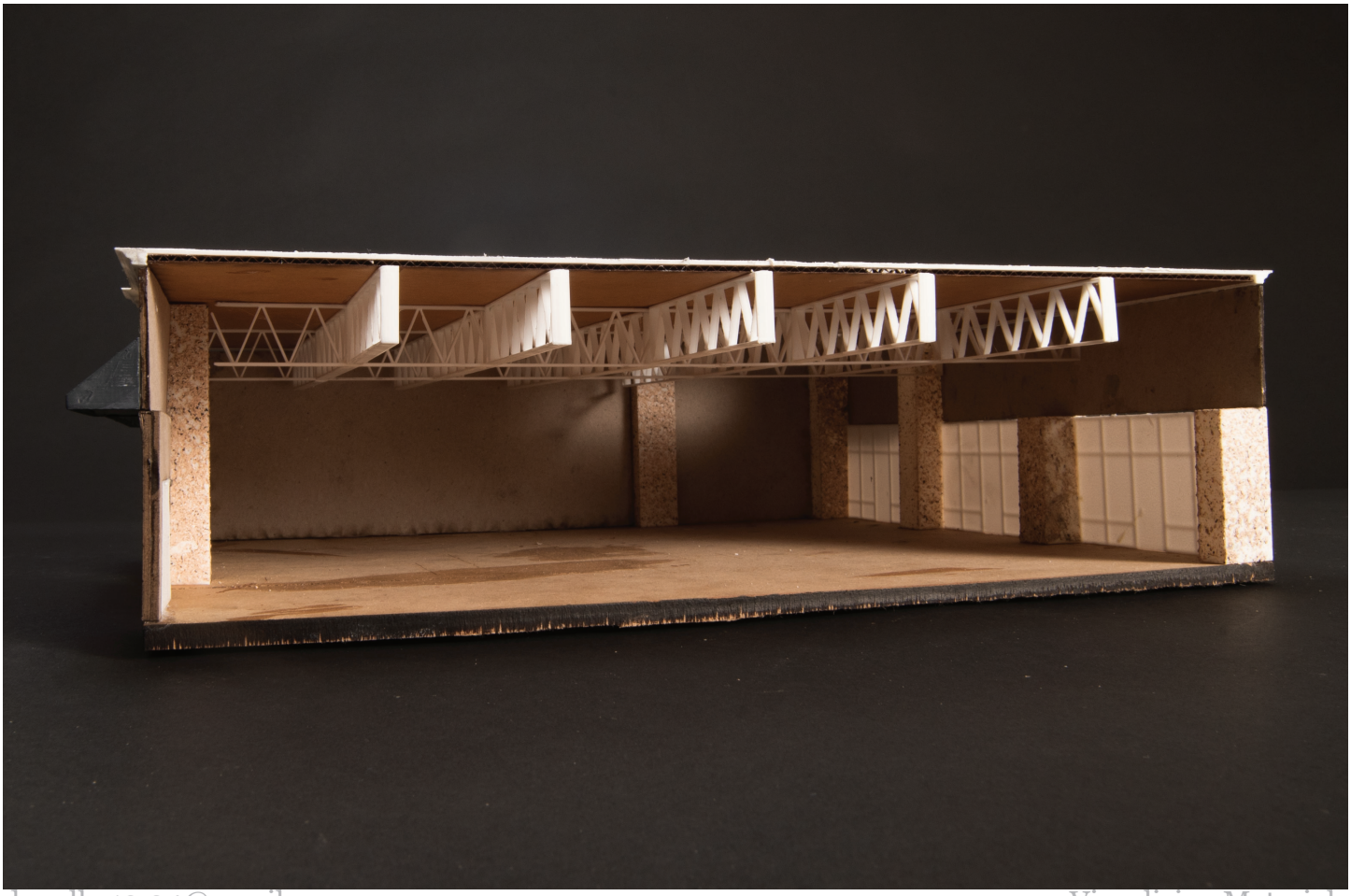






Visualizing Materials

Visualizing Materials is a **material study model** that utilizes various forms of fabrication to represent the different **materials and compents** that make up a typical big box store. These methods include 3d printing, texture experimentation, laser cutting and staining.
Created as one of two thesis models for [UN]wrap, [UP]cycle, [RE]peat



Professional Work

Professional (adj.)
engaged in a specified activity as one's main paid occupation rather than as a pastime

Selected
works
from my
professional
experiences

Edna Entomology Annex

Company:

AG Metrics Group

Project Type:

Research Facility Renovation

Location:

San Luis Obispo, CA

Role:

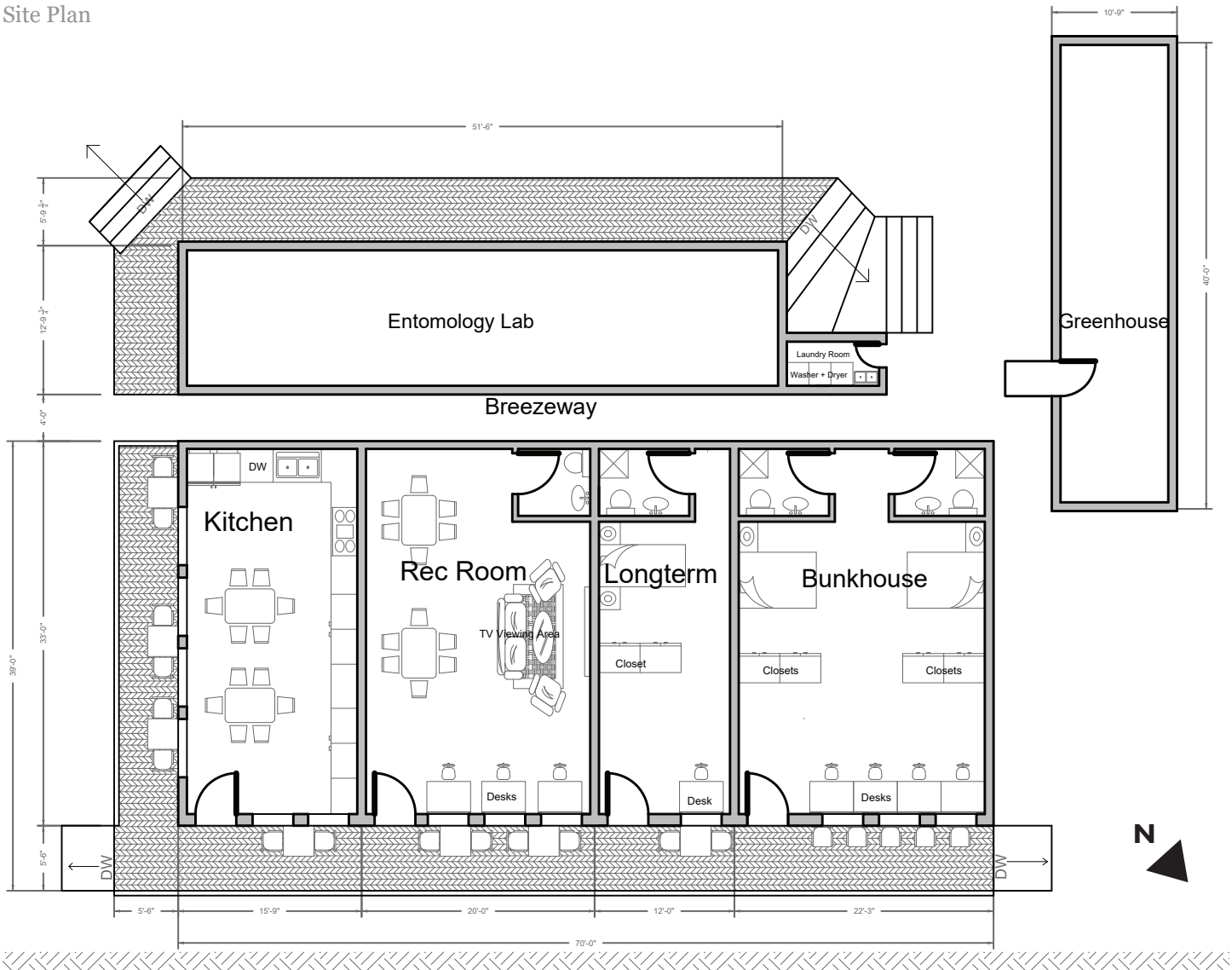
Lead Draftsperson

Period of Involvement:

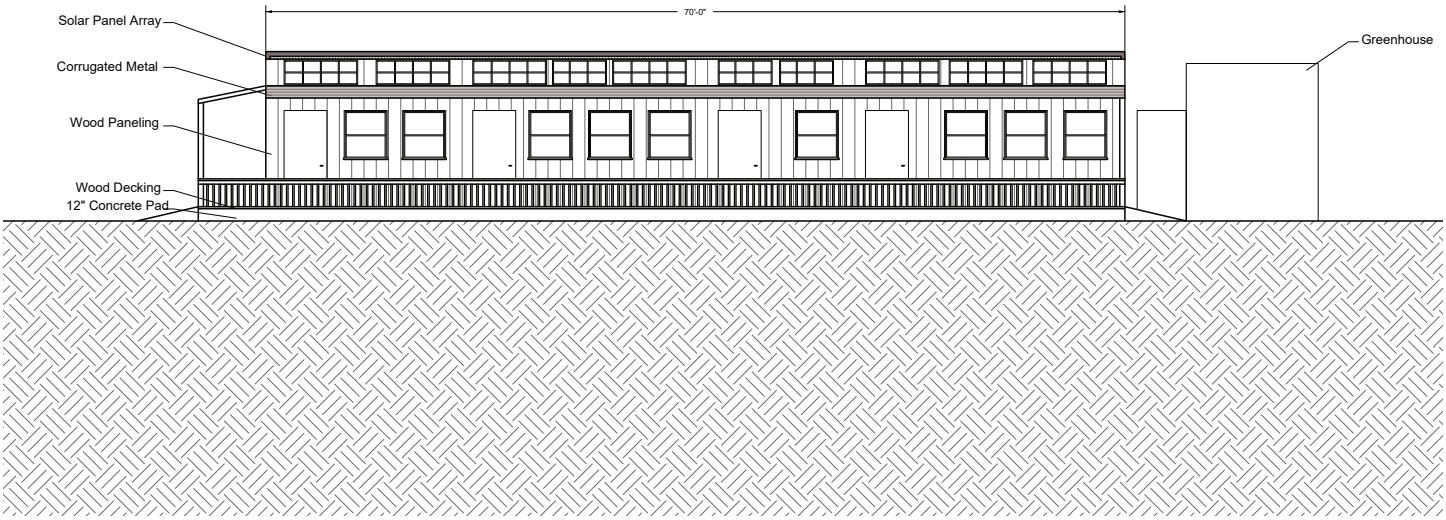
May 2022-December 2022

During my role as a draftsperson for the AG Metrics Group, my main scope of work involved drafting site plans and elevations for the Edna Entomology Annex, located at the San Luis Obispo location. The As-Built included the entomology lab and stairs leading up to the wrap around porch. I was tasked with drafted plans for rennovations which were to include dorms for visiting researchers and on-site employees, a common gathering space for those residing there, and a the solar array above the annex.
After taking initial site measurements and photos, I used AutoCAD 2D to develop the peliminary site plan and elevations, which required careful attention to scale and accuracy due to the complex spatial and environmental needs of the facility. After submitting each iteration, I met with my supervisors, addressing their comments and revising the drawings accordingly.

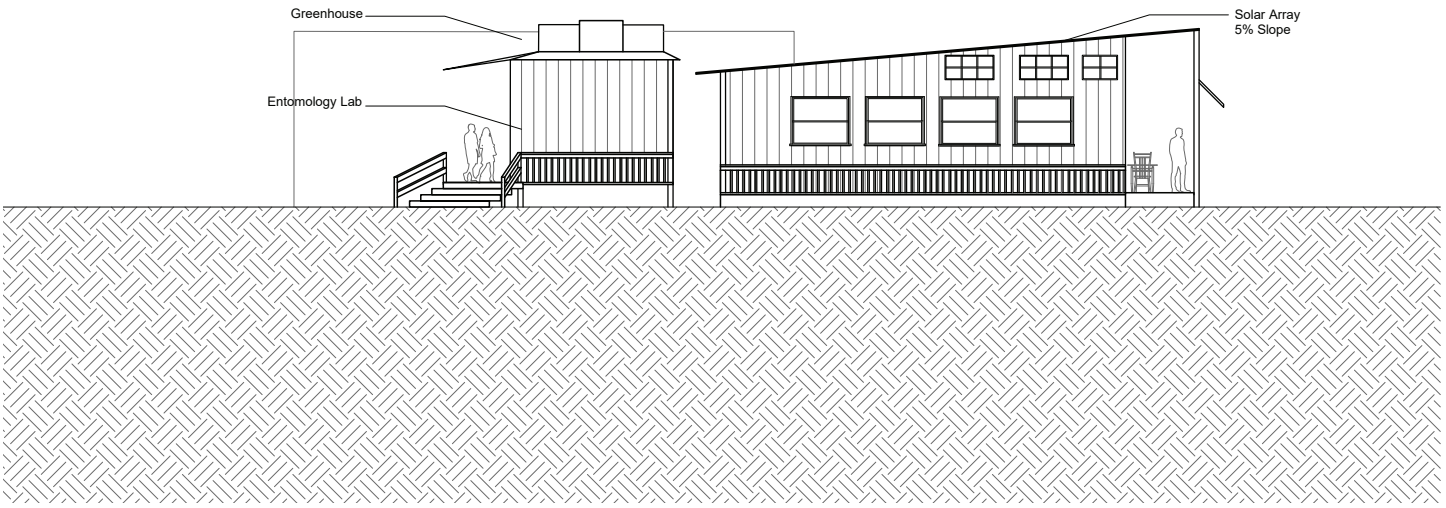
Site Plan



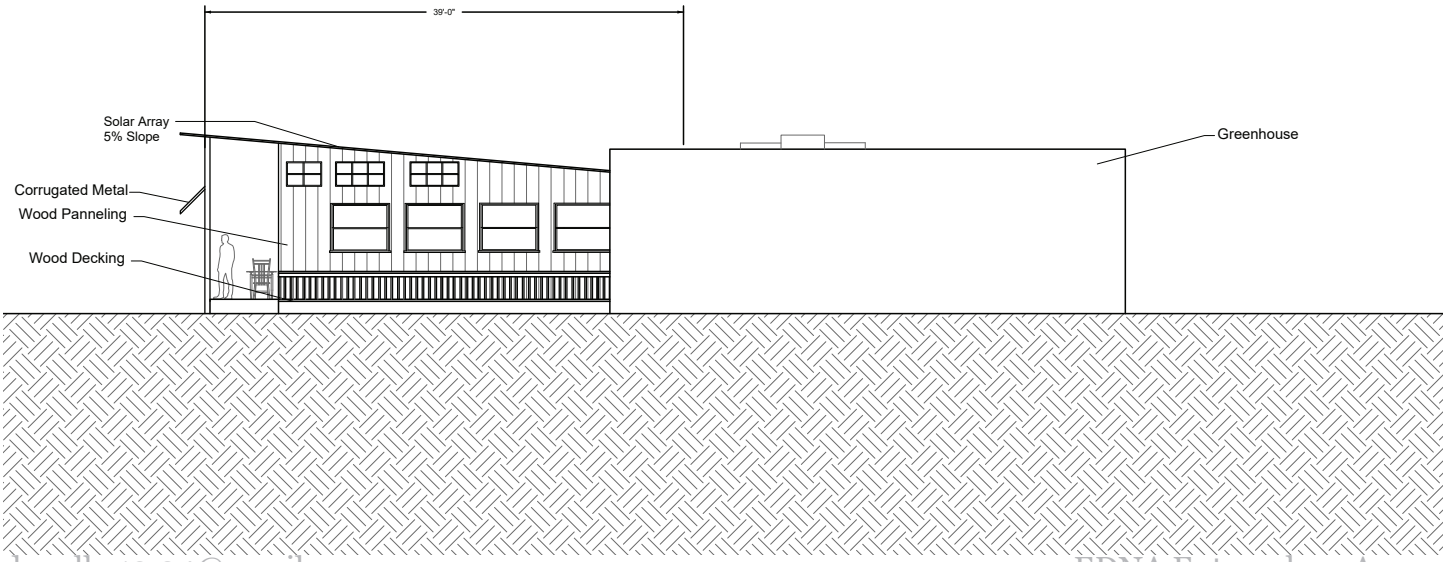
South Facing Elevation



West Facing Elevation



East Facing Elevation



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