KRISTEN DAILEY

2024 PROFESSIONAL PORTFOLIO

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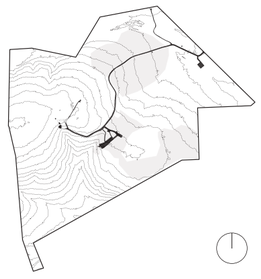
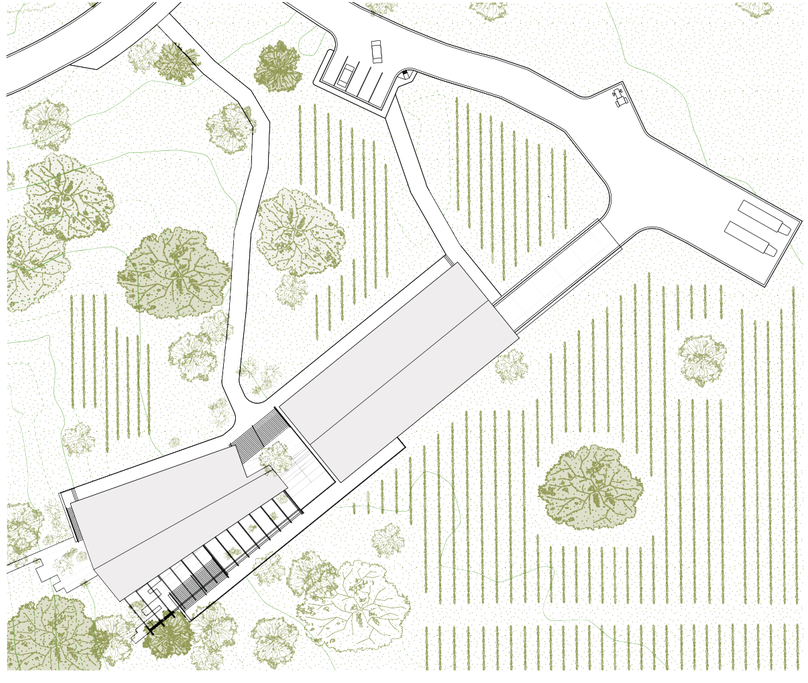
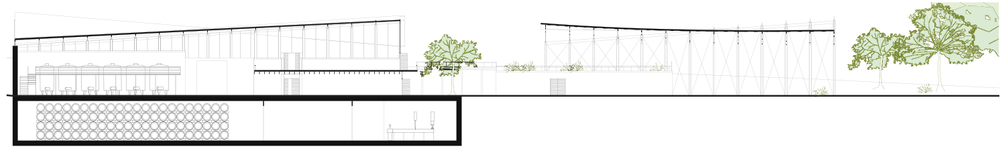
Hill Country Winery

2022 - Professor John Blood
Partnered with Carrie Huang
Winery I 20,000 sq ft

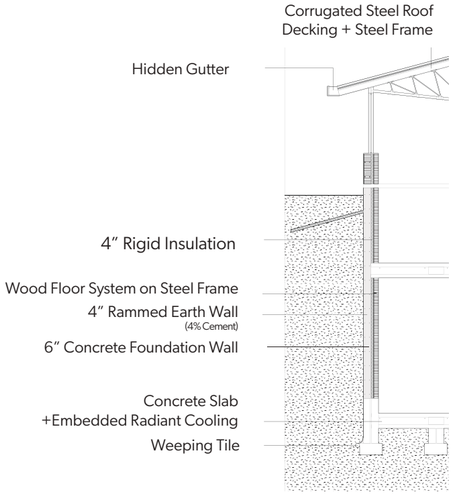
A winery and vineyard with a focus on land stewardship and the cyclical wine-making process. The winery resides in an area of hill country outside Austin, covered by patches of wild grasses, Texas Post Oaks and other trees. Its form is created by slicing into the earth at a point with a shallow slope.







Section



Wall Detail

Ground Floor Plan

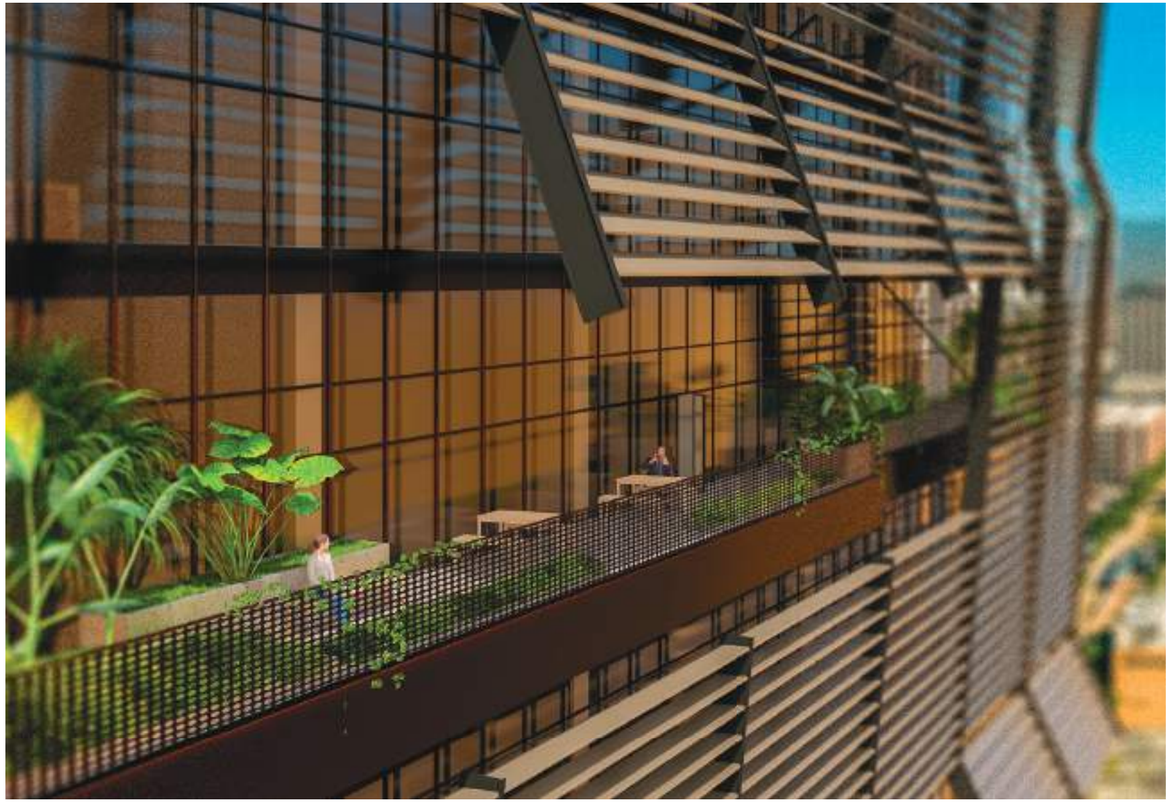
The excavated space opens outwards to create beautiful views into southern valley of the site, and to provide a large open outdoor work space for the winery. As the excavation stretches further into this slope, it creates deeper, more protected spaces for fermentation and aging.

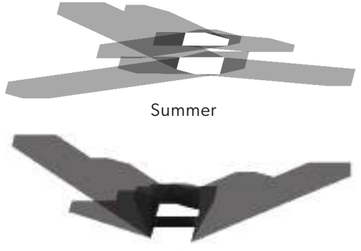
Vertical Density Futures

2021 - Professors Suhash Patel and Kevin Sullivan

Skyscraper | 630,000 sq ft

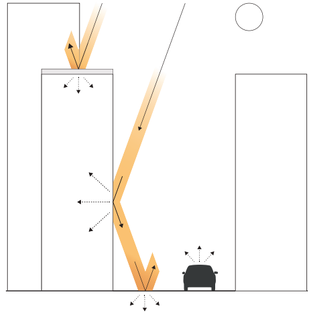
The Urban Heat Island effect (UHI) is making major cities across the globe rise to sweltering temperatures. This project is imagined in a theoretical city which features all the worst characteristics of a typical Urban Heat Island. Large glass boxes surrounded by a sea of concrete. They reflect in on each other, compounding the effect that creates a hostile environment at the ground level with no escape from the heat.



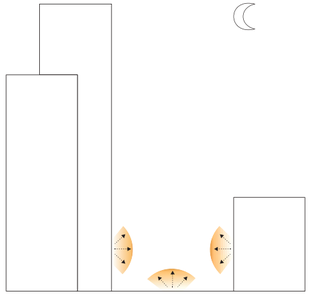


Summer

Winter



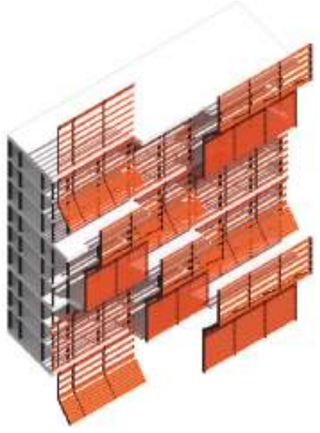
Major Sources of Heat Gain



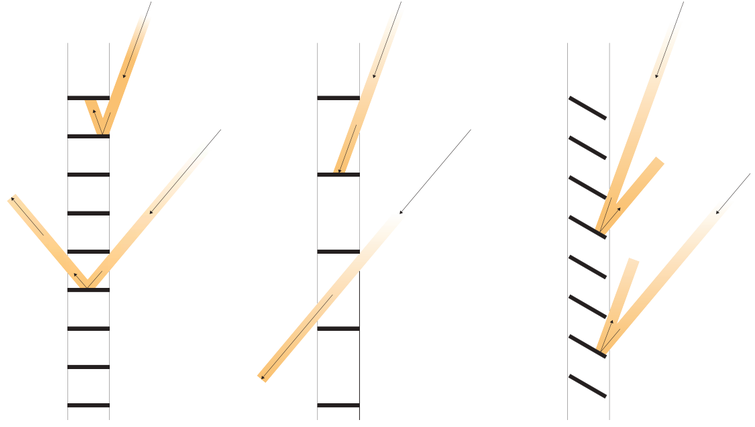
Solar Heat Sink

The design optimizes ventilation, shields from direct sunlight, and redirects solar radiation away from the city using a reflective slatted skin. Incorporating vegetation from ground to roof also enhances evaporative cooling. These strategies come together to provide space that serves the occupants and the community.

City Geometry and Heat

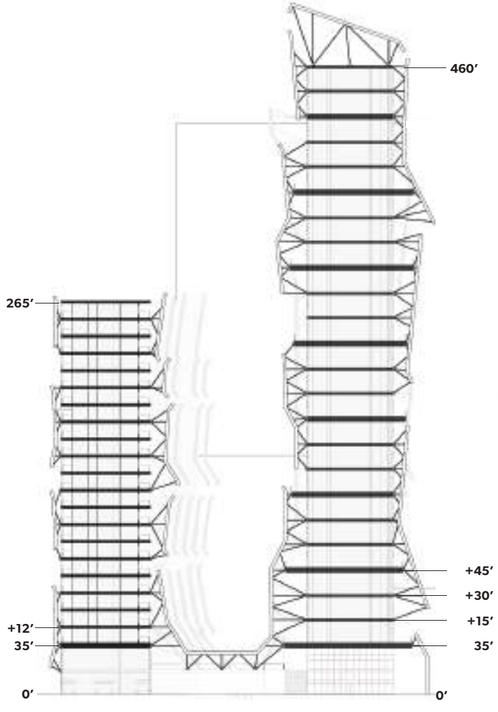


Repeating Louvre System



Solar Radiation and Surface Geometry

Typical Floor Plan



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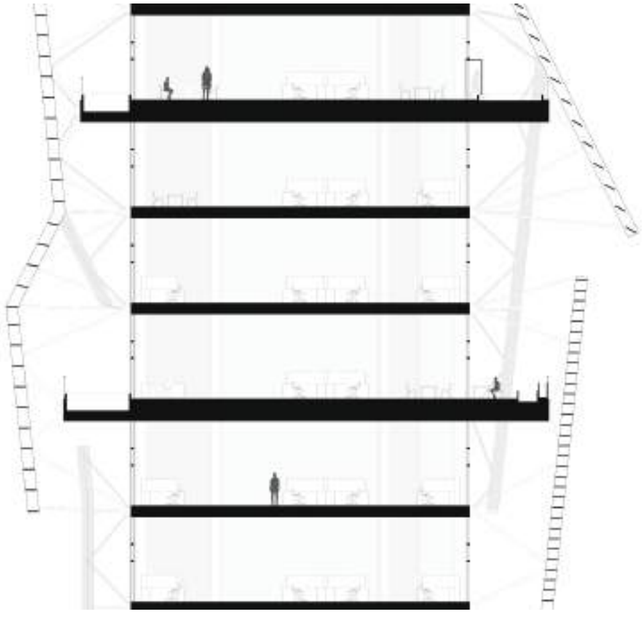
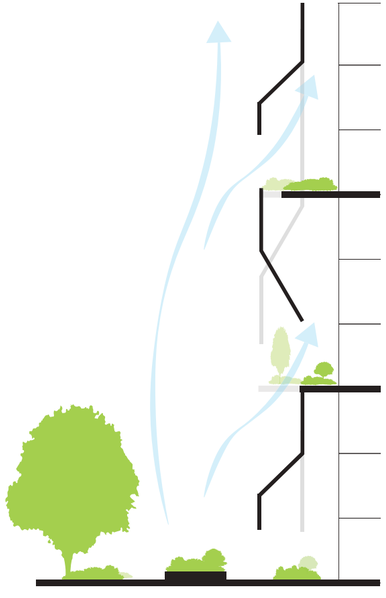


Zoomed In Section (Office)



Stack Effect + Trans-evaporation

Process Sketch

Galapagos Research Station

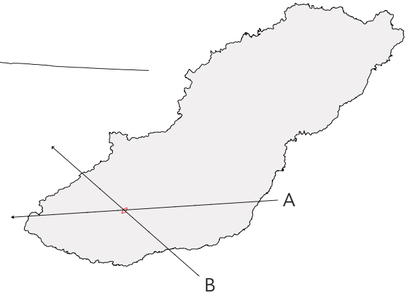
2023 - Professors Aleksandra Jaeschke and David Heymann
Partnered with Simon Butler

Research Facility I 10,000 sq ft I San Cristóbal, Galapagos, Ecuador

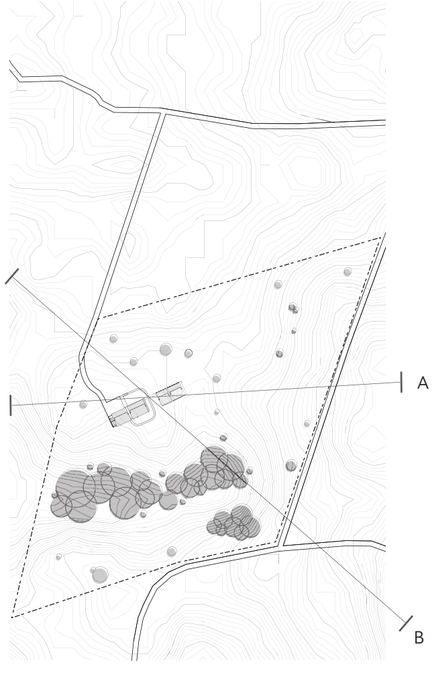
This project is a proposal intended to inspire local inhabitants of the Galapagos Islands about possible futures for sustainable buildings on the islands. The design development process was rigorous with a strong focus on construction techniques which were accessible to an unskilled workforce. This field research station is programmed to support ecological research and storage of samples, public exhibitions, and lodging for visiting researchers. The primary material is an invasive wood species, which would be intentionally cultivated to create a local lumber supply, all other materials are low-impact and imported at low costs. The repeating wood frame structure is designed to support future expansion to the facility with minimal impact on the surrounding land.

Section A - Puerto Baquerizo View

Section B - Pacific Ocean View

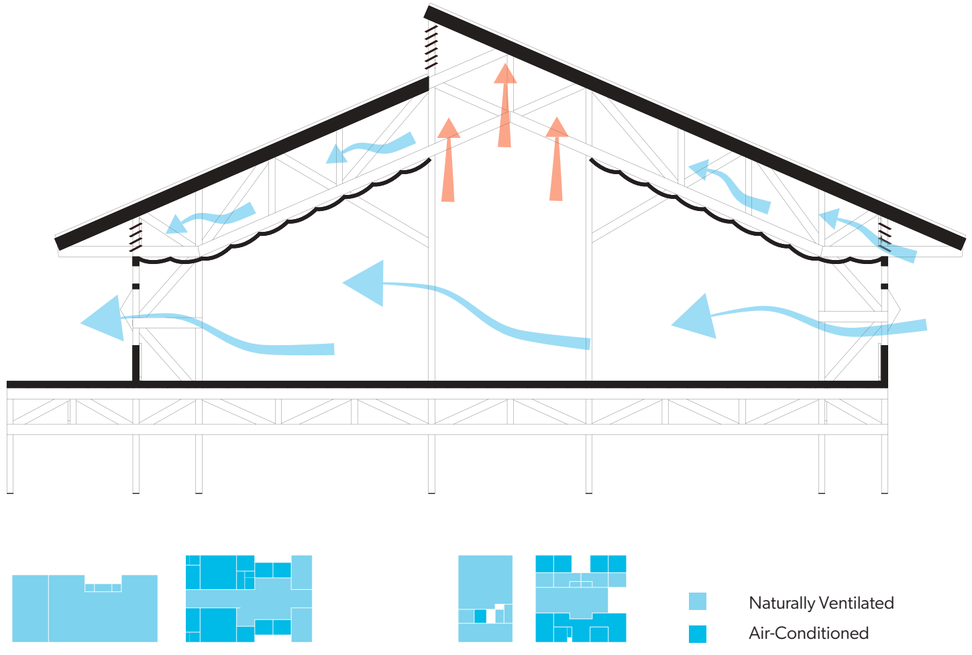


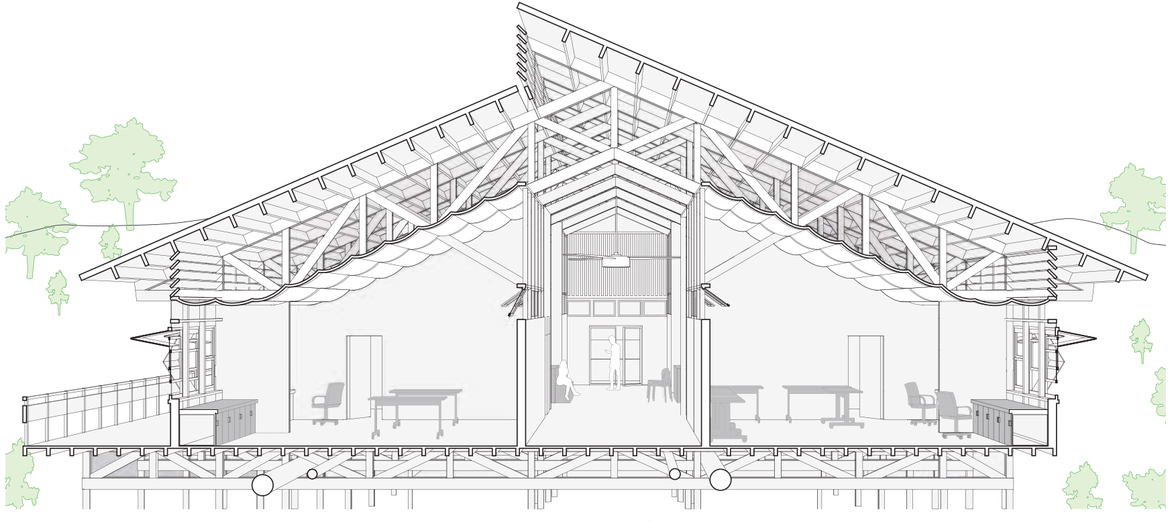
During the studio, we visited San Cristobal island for two weeks. During this time we did a detailed analysis of the site over multiple visits and documented what we experienced staying on the island. This process was helpful in understanding the conditions construction workers would deal with working on the undeveloped land. We also gained a better understanding of the conditions occupants would be dealing with in a largely unconditioned building.



A - Puerto Baquerizo

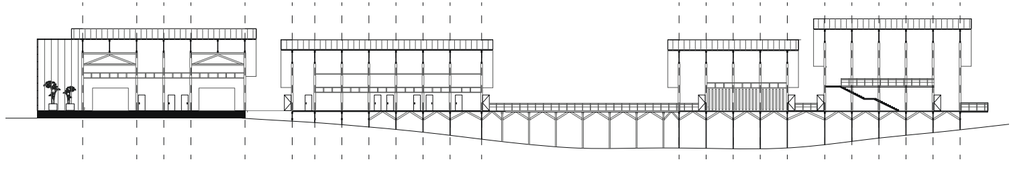
B - Pacific Ocean





Laboratory Section

S. Elevation



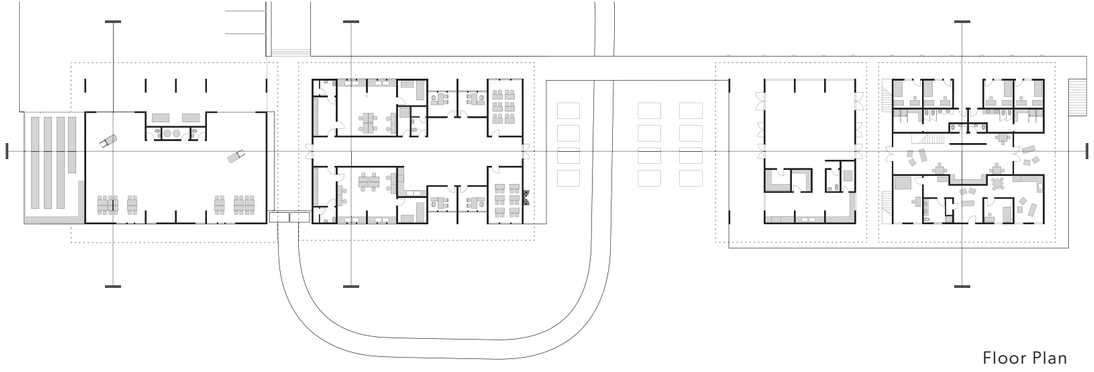
Section

Open-Air
Work bay

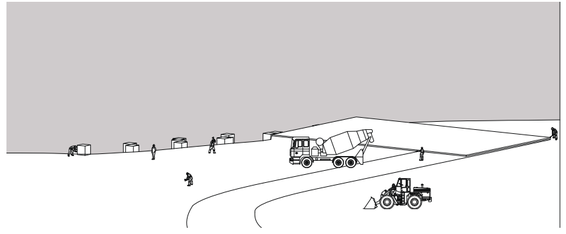
Laboratory

Public
Hall

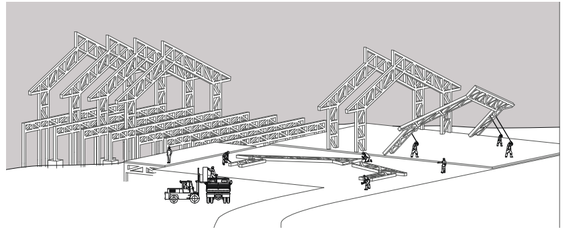
Dormitory



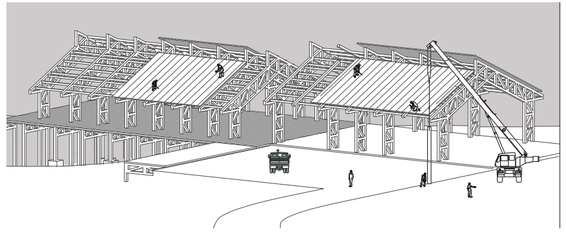
Floor Plan



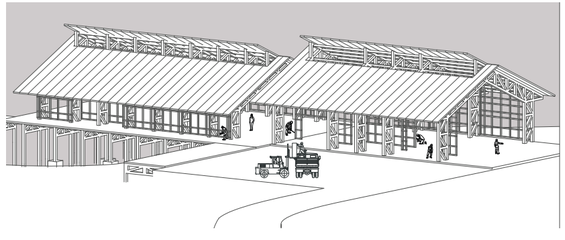
Pour concrete Slab and Footings



Assemble and Raise Frames on-site



Insert cross-beams for floor and roofing



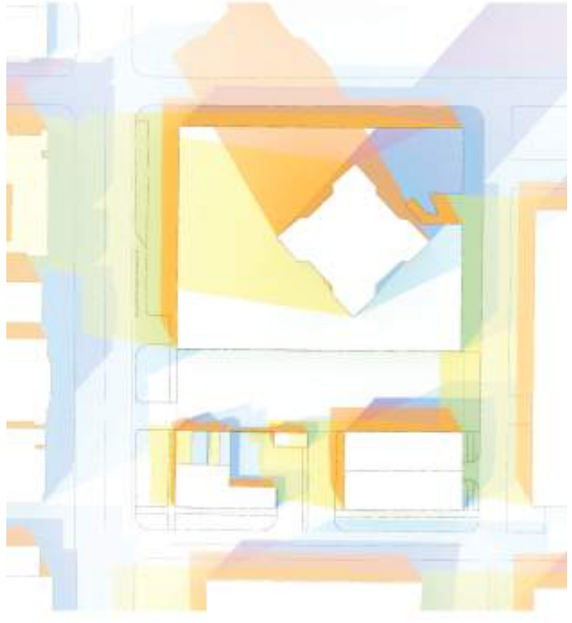
Install walls, doors, and windows

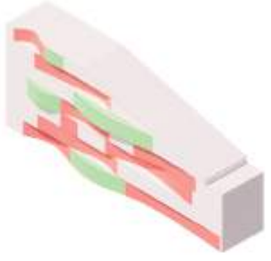
W. Campus Housing

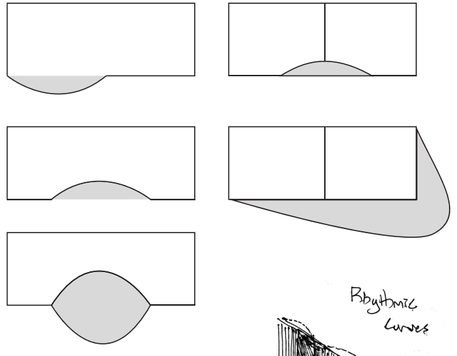
2021 - Professor Michael McCall

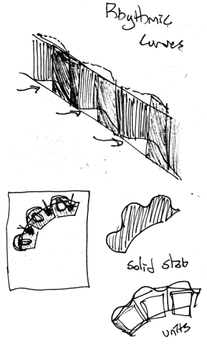
Student Housing I 18,000 sq ft

The ultimate objective of this project is to address a deficiency in the urban fabric by proposing a housing development designed for a specific and under-served demographic of UT students - those who reside with family members and children. We started with analysis, conducted over the course of a few weeks, focused on West Campus and The Drag and aimed pinpoint potential lots for intervention. I challenged myself to cultivate a deeper understanding of material and structure, and to experiment with form.

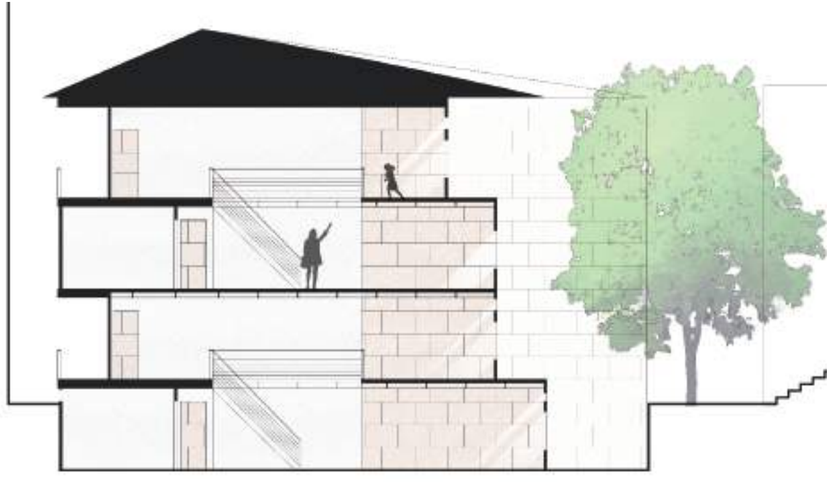




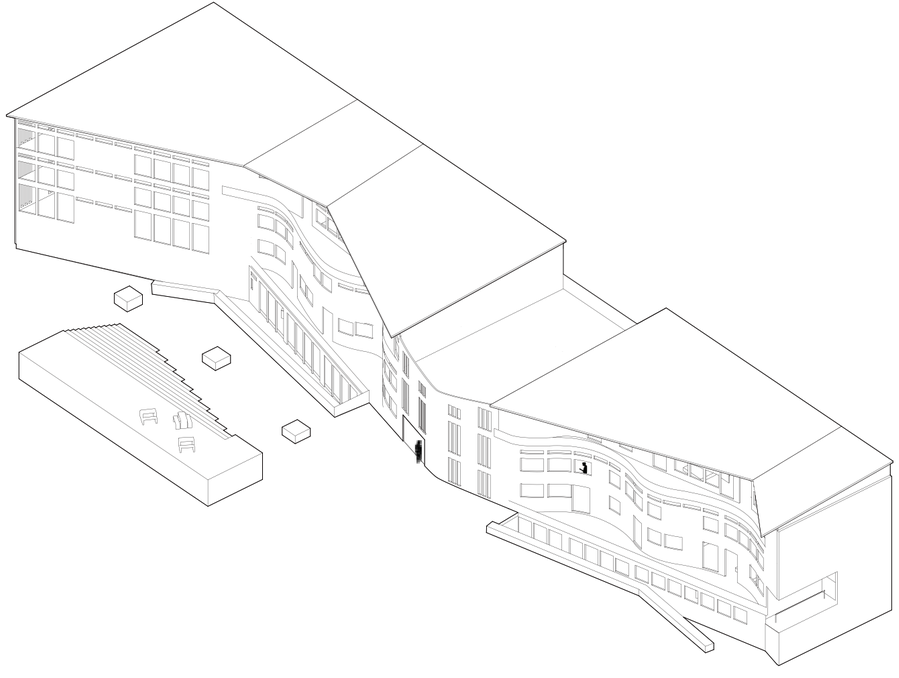


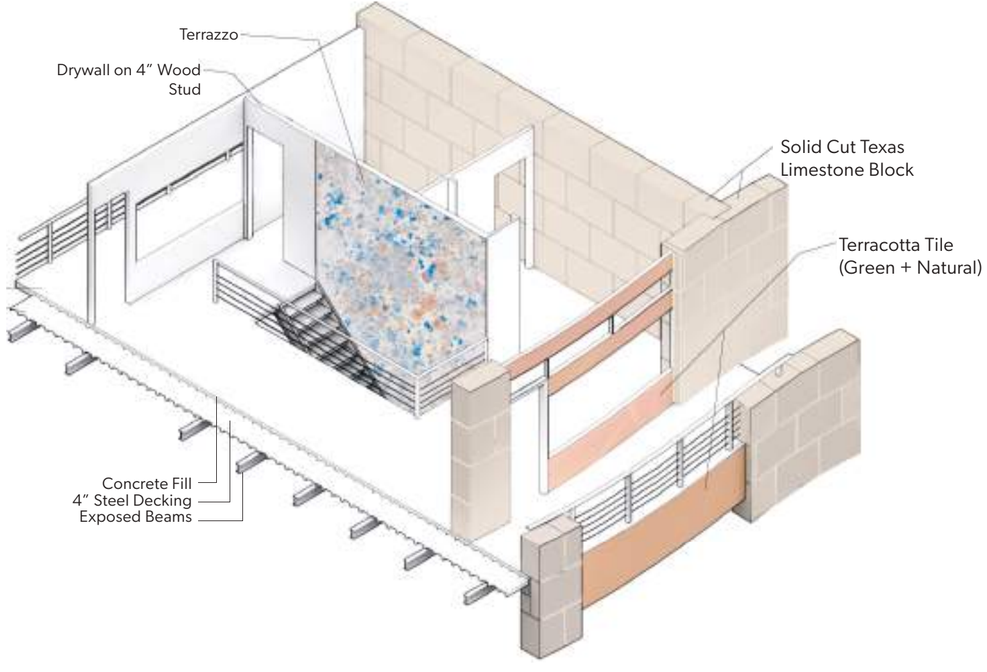

Rhythmic
Curves
solid slab
units

Ground Floor Plan



Section A





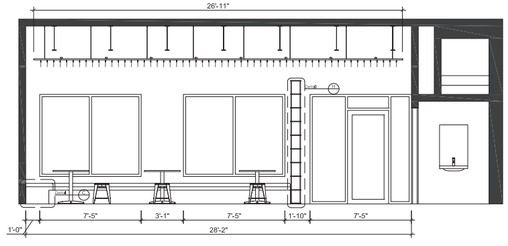
Materials + Structure Diagram

Saigon on 7th

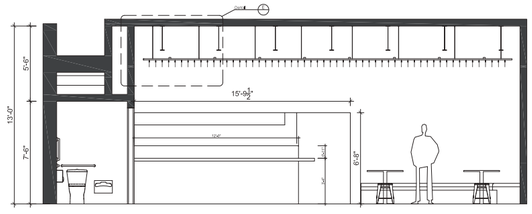
2022 - Trebbo Workshop

Restaurant I 1,280 sq ft

We worked with the owners of Saigon Le Vendeur to create a proposal for a sit-down version of their popular food truck. This involved conducting on-site measurements and capturing photographs of the exterior and interior spaces, which were then integrated with scanned plans of the building to create updated plans in AutoCAD. In a collaborative process, we refined the layout, incorporating client feedback throughout multiple iterations. Additionally, I created drawings for custom casework, an acoustic baffling, and conceptual representations and renderings of the interior design.

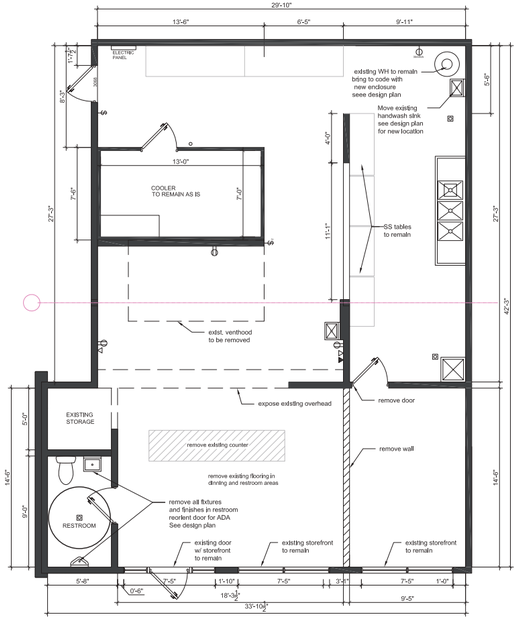


N. Sections

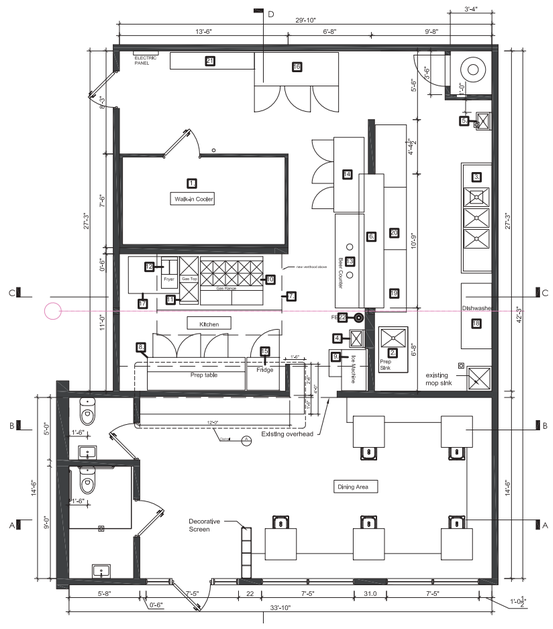


S. Section

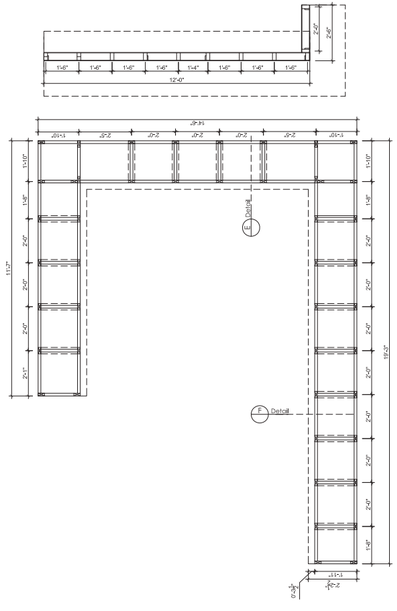
Early Site Visits

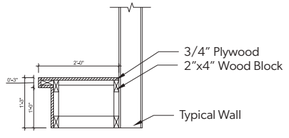


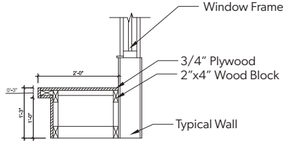
Demo Plan

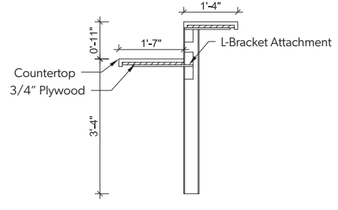


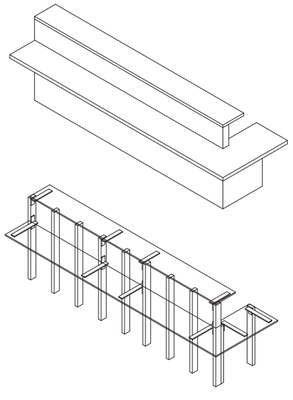
Floor Plan





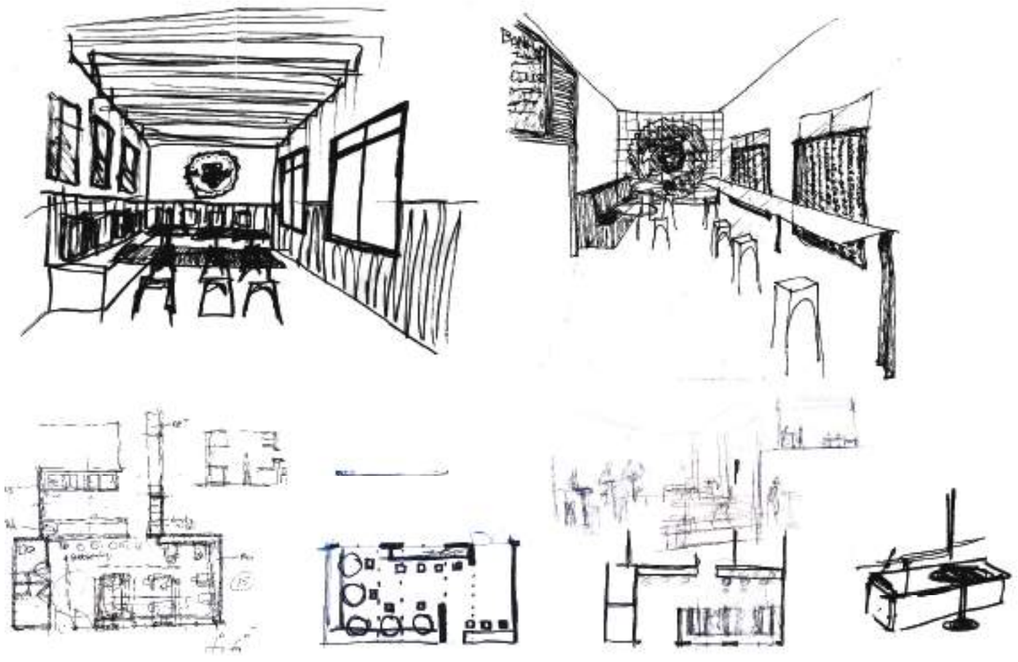






Custom Casework and Banquette
Plans, Details, Axons

Conceptual Drawings



KRISTEN DAILEY

KRISTEN.N.DAILEY@GMAIL.COM
623-986-0702

EDUCATION

Bachelor of Architecture May 18 - Dec 23
The University of Texas at Austin

HONORS

Design Excellence Nominee Fall 2022

EXPERIENCE

Research Assistant May 23 - Dec 23
Kyriakos Kyriakou - UTSOA

Processed and organized data from 50+ case studies and previous projects

Transcribed and formatted interviews

Modeled selected objects and buildings for project presentation

Architectural Intern Mar 22 - Nov 23
Trebbo Workshop

Developed schematic plans and elevations for hospitality, commercial, and residential renovation projects

Created renderings and concept drawings for client presentation

Collaborated on permit sets and construction drawings

ADDITIONAL EXPERIENCES

Socially Immersed LLC. Summer 23

Interviewed Montopolis residents and property owners to find strategies for introducing community gardening in the neighborhood.

UT Outreach Org Officer 22-23

Planned over 20 on/off campus volunteer events, and participated in volunteer work at UT Micro-farm, W&TW, APL, and more.

AIAS 21 - 23

Volunteer Docent in 2022 & 2023 for the AIA Austin Homes Tour

NOMAS Summer 21

Volunteer for Project Pipeline 2021 Summer camp

HARD SKILLS

Revit, AutoCAD
Rhino 3D
Photoshop, Illustrator, InDesign
Sketch-Up
Digital Rendering (V-Ray, Lumion, Enscape)
Microsoft Excel