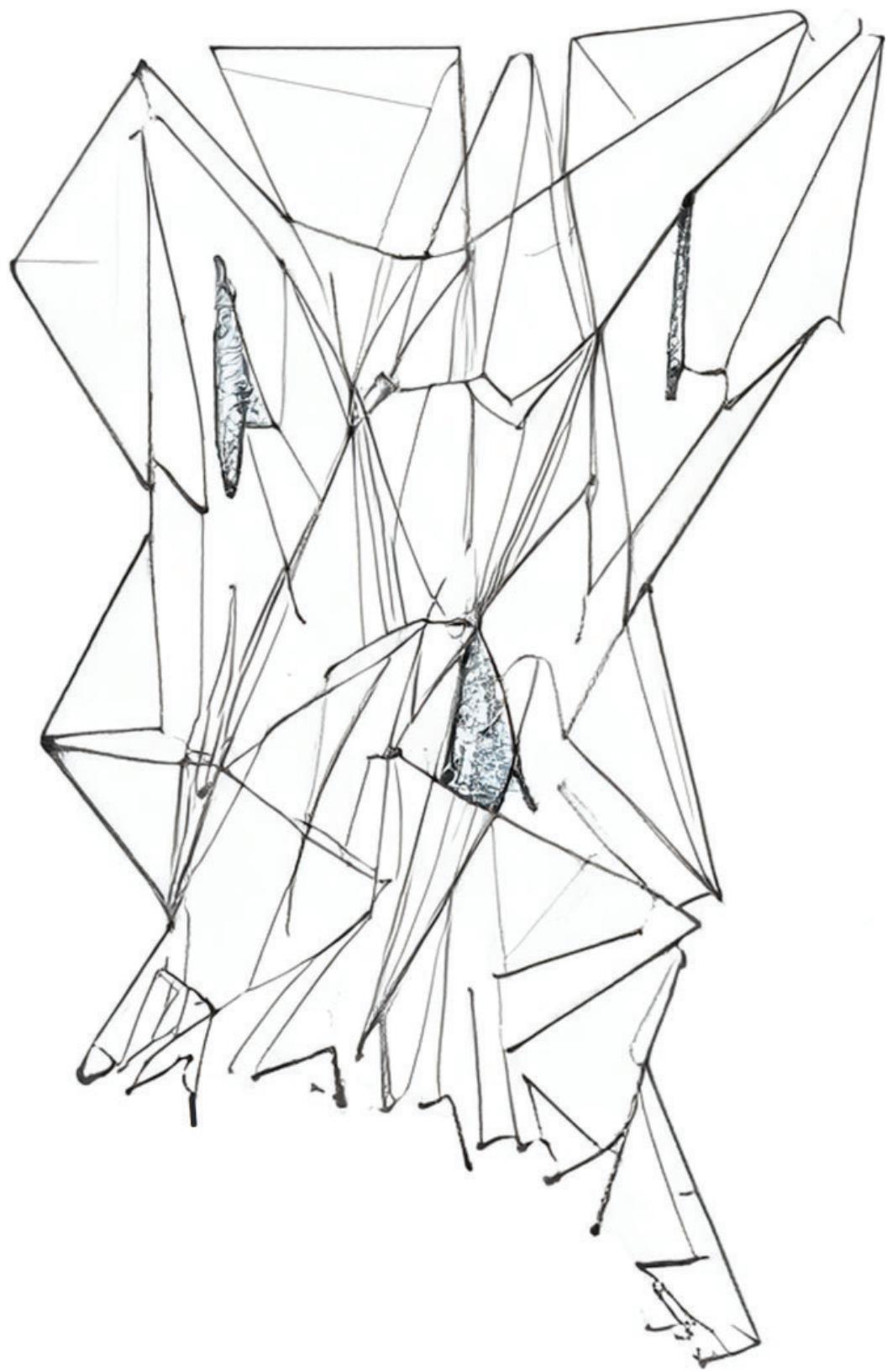


# PORT FOLIO



JACOB NGO





# JACOB NGO

CREW MEMBER | PROVIDER

916 224 5219

[linkedin.com/in/jacobngo2](https://www.linkedin.com/in/jacobngo2)

jacobhngo7@gmail.com

Sacramento, CA

Recent Interior Architecture graduate focusing on commercial mixed-use spaces, outdoor parks, sports complexes, infrastructure for protected and national parks, and adaptive reuse projects. Strong leadership and team oriented skills have made for excellent project production throughout my academic pursuits across a range of purely conceptual to hypothetically budgeted projects as I now seek to transition to a professional environment to refine my skillset in an effort to help create a more innovative, sustainable, and immersive experience for users within built environments.

## EDUCATION

August 2020 - December 2023

### Interior Architecture

**B.F.A.** Honors: **Magna Cum**

**Laude**

California State University,  
Sacramento

August 2018 - June 2020

### General Education

Sacramento City College

## SKILLS



## WORK EXPERIENCE

### Crew Member

**Trader Joe's** - 800 S Shamrock Ave, Monrovia, CA

June 2018 - Present

- Designing and curating product displays, adjusting primary circulation spaces accordingly to prioritize congestive foot traffic minimization and customer safety in compliance with current ADA standards
- Providing unique user experiences by actively engaging with customers and developing curated aesthetic compositions
- Frequent communication with management to make adjustments to sections regarding design, inventory allocation, daily workload needed from crew
- Researching new and innovative strategies to increase customer relations

### Provider

**Sacramento County In Home Supportive**

**Services Public Authority** - 3700 Branch Center

Rd A, Sacramento, CA

May 2018 - Present

- Fostering inclusive environments that accommodate physical diversity of clients
- Implementing accessibility modifications in clients' homes to comply with ADA standards and accommodate individuals with disabilities
- Communicating effectively with several parties simultaneously including clients, caregivers, healthcare professionals, and community resources to coordinate care and support services ensuring clients' needs are beyond satisfied
- Maintaining accurate and thorough documentation of client assessments, care plans, and service delivery in compliance with regulatory requirements.

## PROGRAMS

Revit

AutoCAD

SketchUp

Enscape

Illustrator

Photoshop

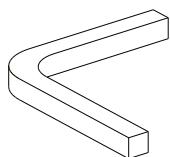
InDesign

## INTERESTS

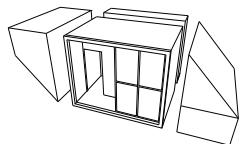
- Footwear Design & Culture
- Virtual, Augmented, & Mixed Reality
- Video Game Level Design



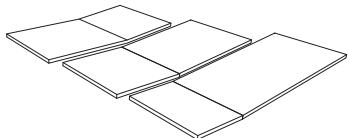
# CONTENTS



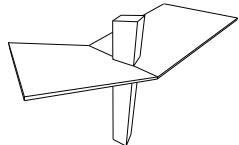
**THE GREEN BEND** | 6 - 17



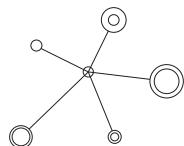
**THE POLY POD** | 18 - 21



**HILLSIDE HAVEN STUDIOS** | 22 - 35



**MJÖLNIR'S NAIL** | 36 - 49



**GRAPHIC DESIGN** | 50 - 53



# 01 THE GREEN BEND

COMMUNITY RESTORATION CENTER | 567,000 sf

Sacramento, CA

Professor: Mark Roddy

Fall 2023

In response to the acute need for compassionate solutions to homelessness, Sacramento County is pioneering The Green Bend, a revolutionary transformation of a large big box building. This ambitious project aims to establish a mixed-use unhoused transition center and community hub that transcends traditional shelter models, placing emphasis on dignity, community integration, and empowerment for individuals experiencing homelessness. The Green Bend's architectural vision goes beyond providing mere shelter, actively engaging residents in a space that recognizes and values their humanity. Innovative strategies address practical needs while prioritizing mental, emotional, and social well-being. This commitment is exemplified through access to medical professionals for both physical and mental health needs, ensuring residents have immediate support and preventive care. Furthermore, The Green Bend embraces the principles of the Committee on the Environment's (COTE) Top 10 design strategies. Design for water is integral, incorporating sustainable practices such as rainwater harvesting to reduce environmental impact. The design for equitable community is reflected in shared spaces that foster inclusivity and interaction, ensuring that every resident feels an essential part of the community. With a keen eye on design for ecosystems, The Green Bend integrates outdoor green spaces that utilize CA-native flora and fauna, fostering biodiversity and contributing to overall environmental



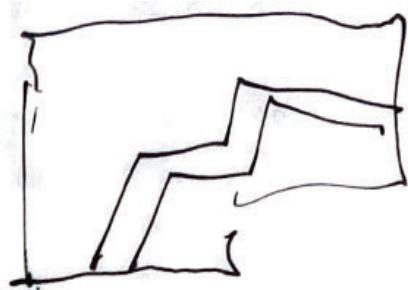
health. Finally, the design for well-being is interwoven throughout, incorporating biophilic design principles that connect residents with nature, promoting mental and emotional health. In addition to healthcare services, The Green Bend enhances residents' lives with livelihood and social amenities. A gymnasium, indoor basketball court, and turf soccer field provide spaces for physical activity and community bonding. Personal security is addressed through rentable storage units and ample personal storage within designated "Poly Pod" sleeping cabins. The Green Bend emerges as a pioneering model for transitional housing, aligning with COTE's design strategies and prioritizing the resilience and humanity of every individual facing homelessness. Sacramento County's innovative approach not only addresses immediate shelter needs but also contributes to a paradigm shift in how communities nationwide can compassionately and effectively support those experiencing homelessness while respecting and enhancing the broader ecological context.

Enscape   Adobe Photoshop   Revit  
Sketchup   Adobe Illustrator

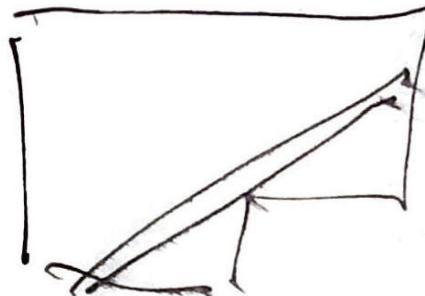
## IDEATION | CONCEPT DEVELOPMENT

**Social Stigma** - While many support advocacy of rights for the unhoused without question, there tends to be a bit more stigmatization towards the unhoused population when such advocacy garners a solution that puts the general public in intimate proximity to shelters, or new low income communities out of perceived fear of mentally ill individuals, unsightly and unkempt properties, or the spread of disease to name a few. Thus, the design challenge is proposed to create a space that both addresses these justified concerns and invites forth neighboring residents to utilize mutually valued amenities to narrow such stigmatization, in an effort to foster a community that recognizes all of its inhabitants

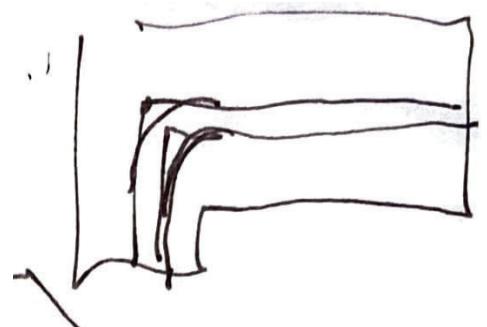
**Warehousing the Unhoused** - As the epidemic continues to garner more innovative solutions and programs, rooted in good faith, like low income tiny home neighborhoods, the issue of a perceived lack of humane treatment but rather, 'warehousing' and hiding approach by the general public and unhoused populations alike has garnered much criticism. But, in the face of a largely pioneered approach that is both cost efficient and effectively caters to singular occupants, perhaps **it is not the approach that is the issue but rather, the execution**, proposing the design challenge of creating a single occupancy shelter and community that is rich in human infrastructure rather than one that is feels isolatory, warehouse, or prison-like



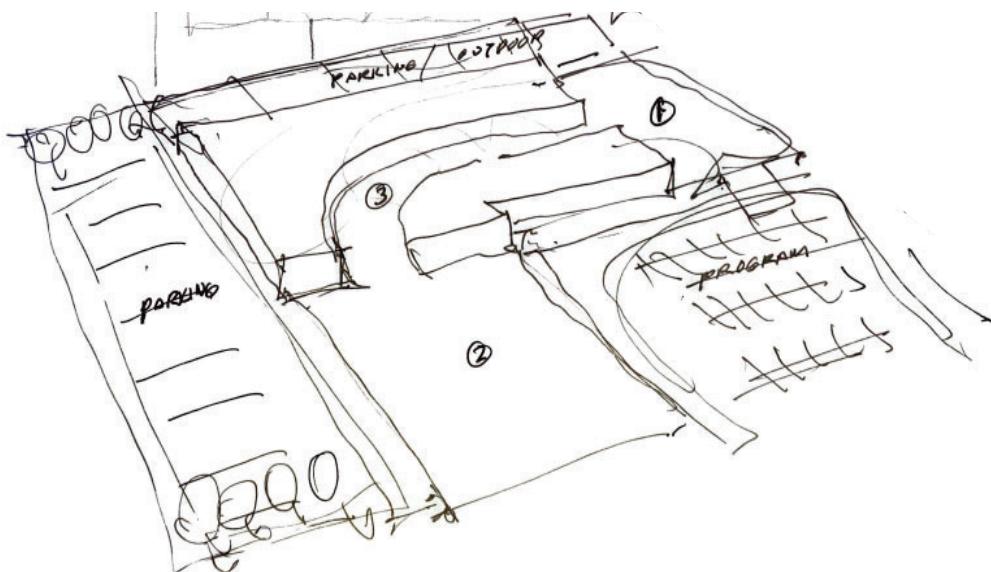
01 - Large form is broken down into three separate buildings via complex thoroughfare



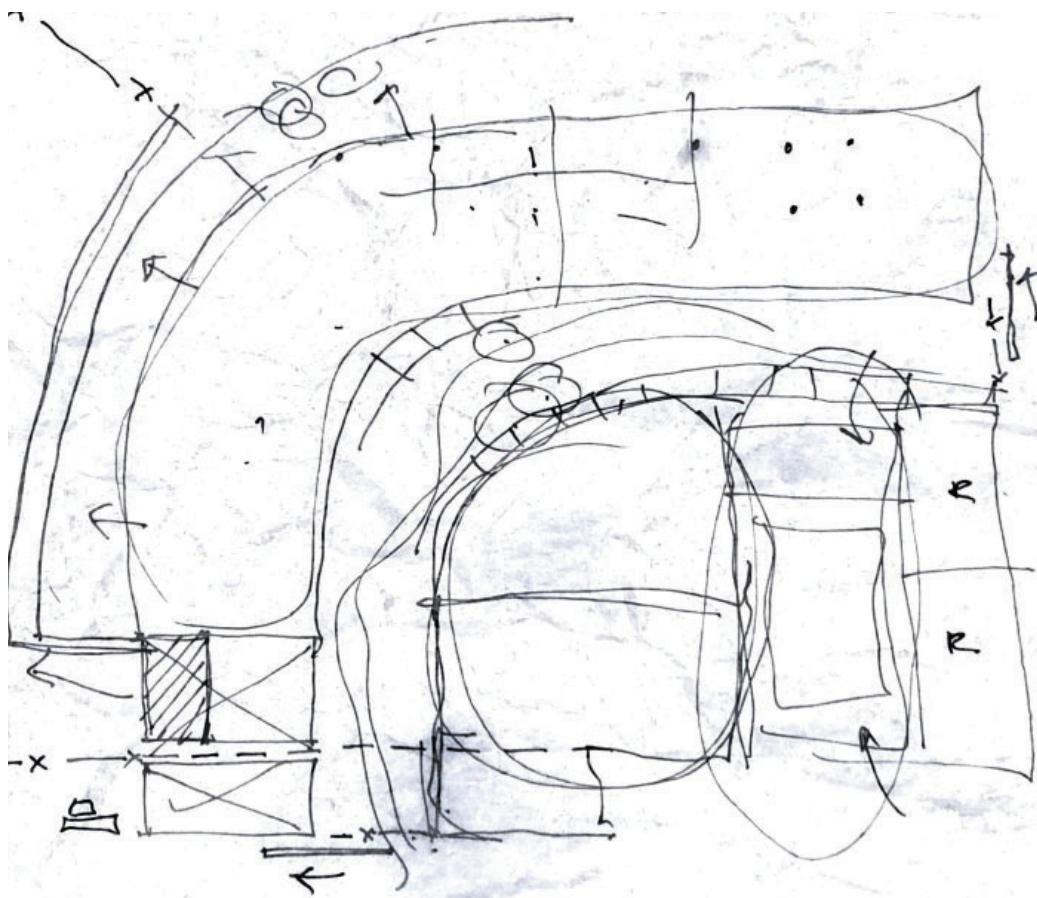
02 - Form is again bisected into three separate buildings but with simpler thoroughfare



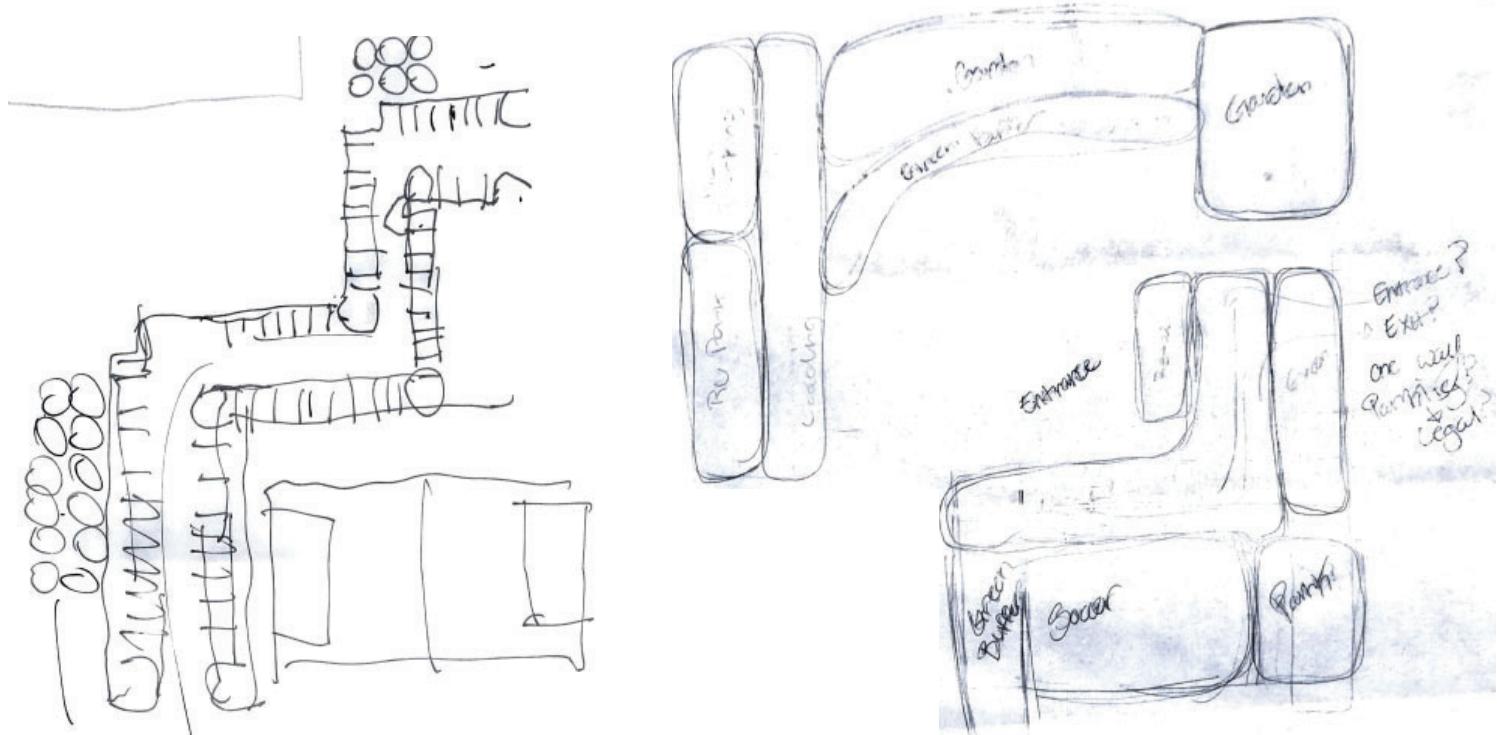
03 - Building is bisected into two distinct buildings that follow the orthogonal logic



04 - Thoroughfare is smoothed about the turning point to juxtapose the orthogonal logic and put higher emphasis on the bend itself in an effort to make the thoroughfare feel more organic

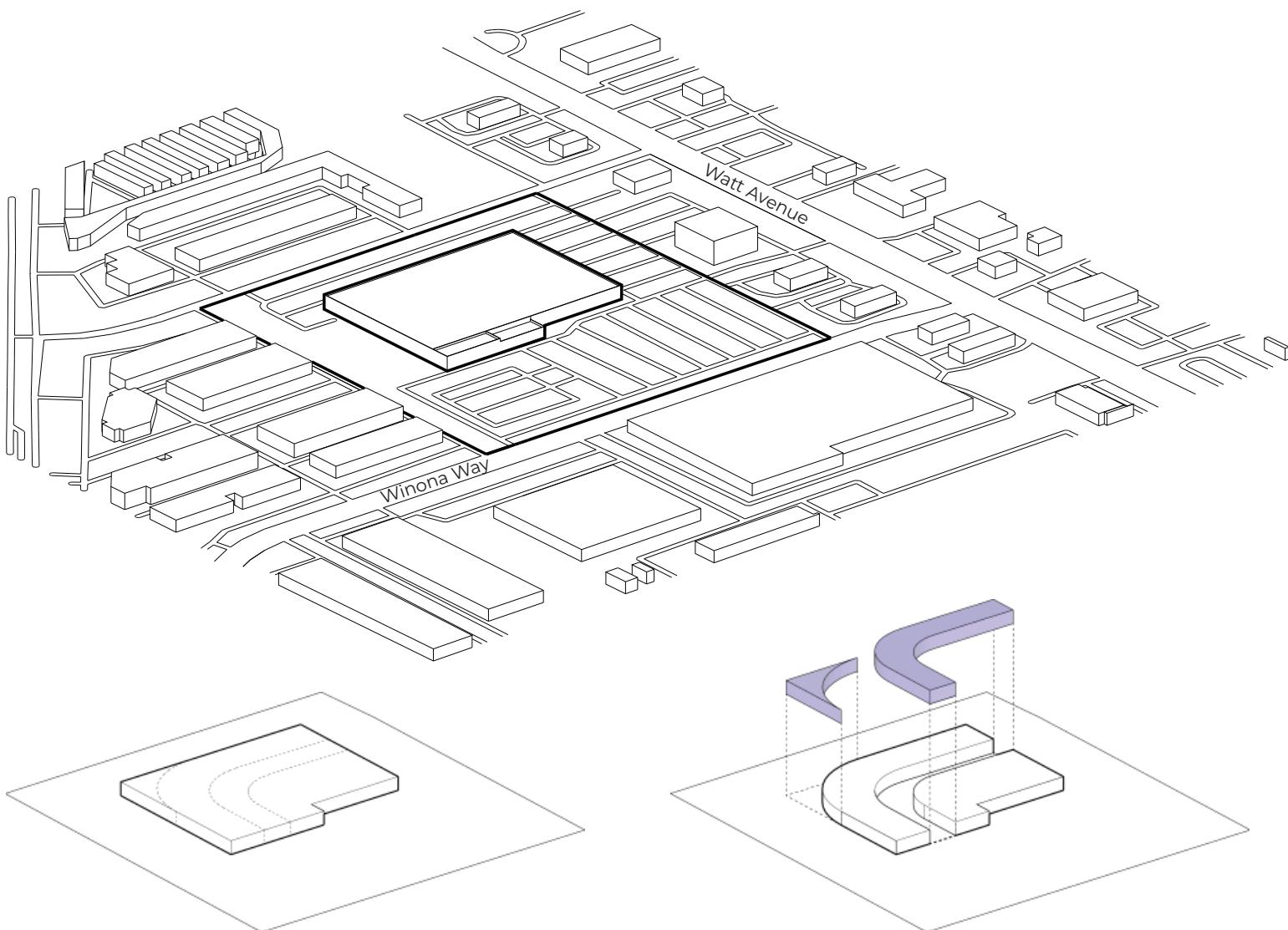


**04** - Thoroughfare is smoothed about the turning point to juxtapose the orthogonal logic and put higher emphasis on the bend itself in an effort to make the thoroughfare feel more organic as it becomes programmed to house trees and vegetation



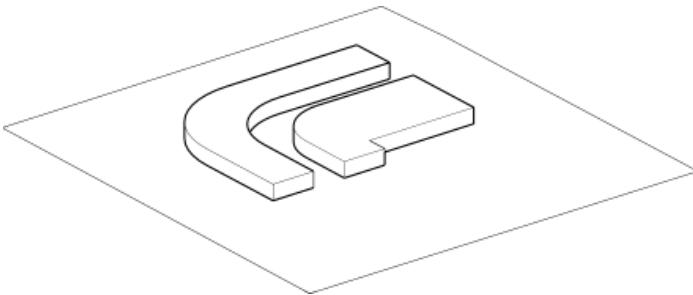
**06** - Parking lot and south section of site parking reconfiguration in conformity to regulation size soccer field installation

**07** - Site surrounding structure receive basic programming in conformity logic and major movements of the building's curved form

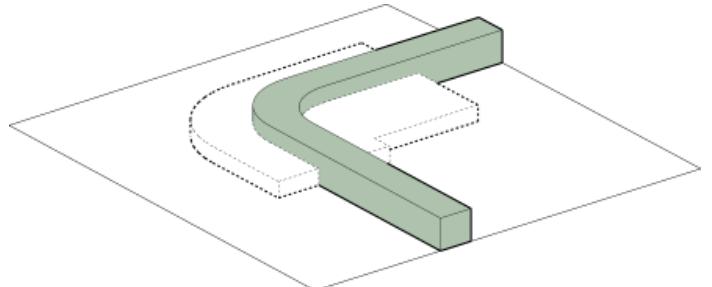


**Existing Site** - Singular rectilinear "big box" form

**Subtraction** - Northwest corner and large curved band propose a separation of formal/ public space and informal/ private space, simultaneously removing some of the overbearing rectilinear form



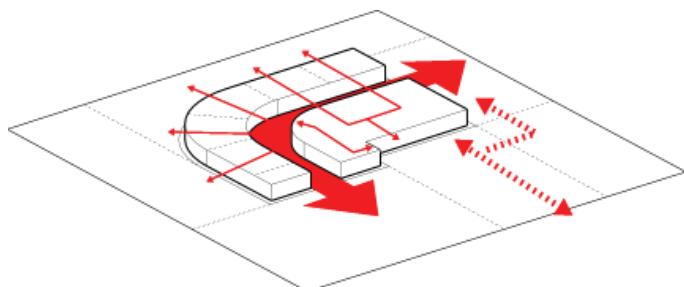
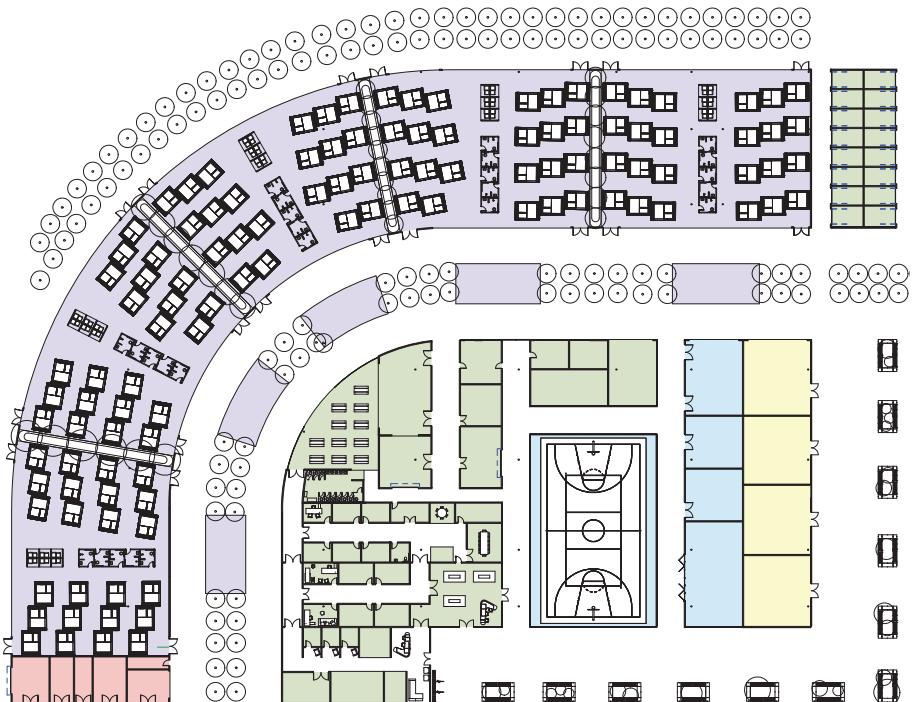
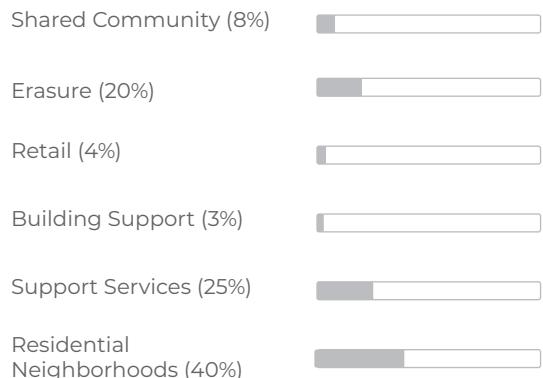
**Proposal** - Site takes one rectilinear form and breaks it into two about a playful curved promenade/ thoroughfare element



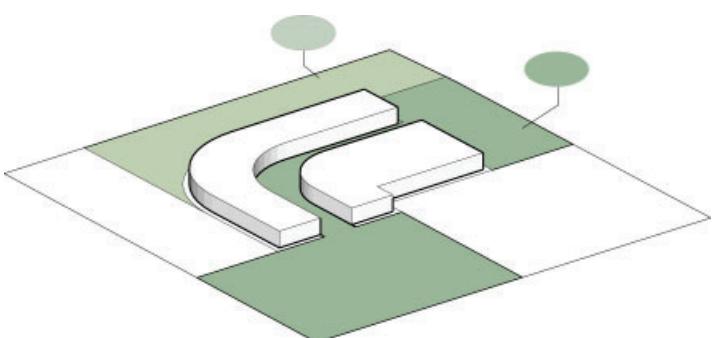
**Green Bend** - Houses vegetation and gathering spaces, providing a healthy biophilic aesthetic and serving as a welcoming transition space between public and private spaces

**Building Size** ~ 120,000 sf

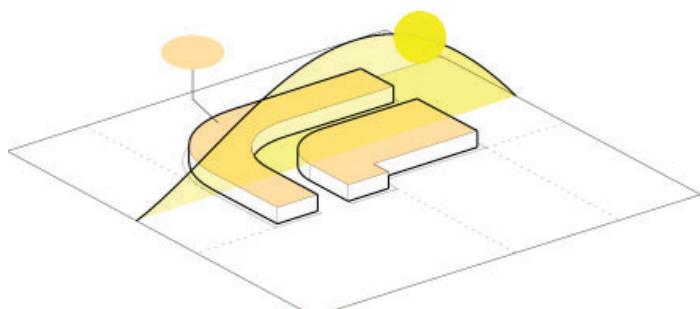
**Building Breakdown:**



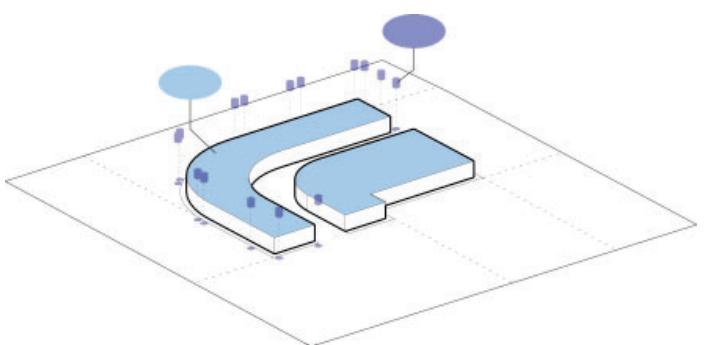
**Circulation** - Two forms' individual responses to formality. While the more rectilinear form follows a more grid-like circulation arrangement, the curved form follows a more simple outward-flowing arrangement while the bend itself serves as not only its own circulation about the site but also breaks the tension between the difference of formal disposition of either forms' circulatory expressions



**Greenscape** - The "Green Bend" may also serve to not just separate two forms but also connect two major green spaces about the site



**Daylighting** - The "Green Bend" is oriented relative to the sun's path, ensuring it is well daylit the majority of most days, also providing adequate daylighting into the two forms it has bisected



**Water Collection** - Massive roofs provide excellent collection potential which can be stored in cisterns which have been strategically placed about the bend to double as zoning elements

## PROPOSED SITE AXON | DESIGN STRATEGIES

**Design for Well Being**- In attempt to add functional multi-supportive greenscaping and reduce the site's total carbon footprint, 1.24 acre's worth (approx. 54,000 SF) of the site will be allocated to a self sustaining garden (nearly the size of an NFL regulation football field)

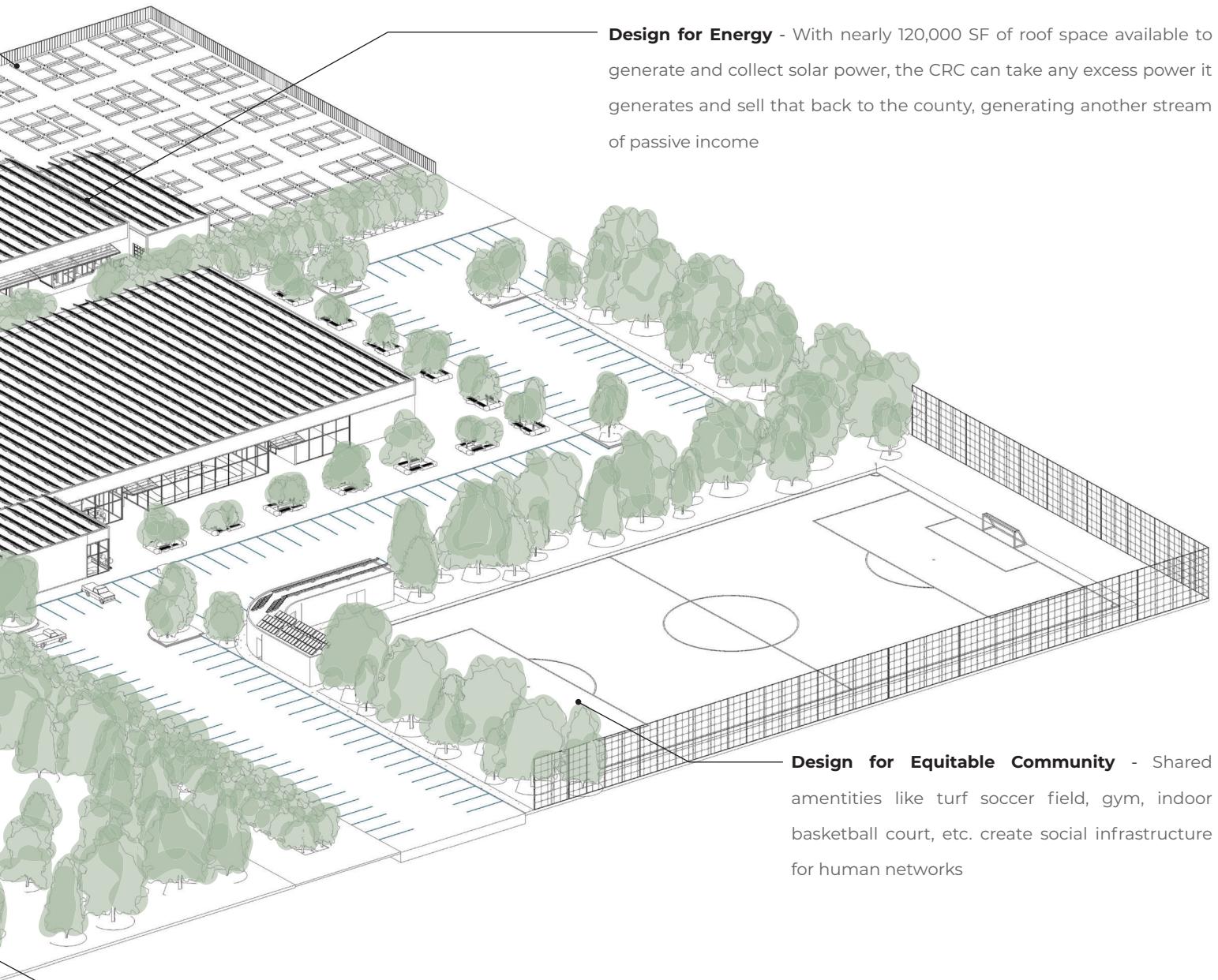
Shared community dog park available to residents, overnight parking guests, overflow residents and surround North Highlands locals

overnight parking for non residents

Outdoor overflow neighborhood featuring twenty eight additional outdoor "Poly Pods" utilizing various modular amenities

**Design for Ecosystem** - On top of the self-sustaining vegetable garden, a projected additional 40-60% of the site will be greenscaped into an arboretum and park, utilizing native plants, trees, shrubs, lichens and mosses as well as controlled habitat areas specifically for wildlife to occupy, undisturbed.

Ultimately the site will go from 8.5% to a projected 70% of green space



**Design for Energy** - With nearly 120,000 SF of roof space available to generate and collect solar power, the CRC can take any excess power it generates and sell that back to the county, generating another stream of passive income

**Design for Equitable Community** - Shared amenities like turf soccer field, gym, indoor basketball court, etc. create social infrastructure for human networks

**Design for Water** - CA native trees, plants, lichens, and mosses, have been hand chose to be planted around and within the facility for their inherent acclimation to CA weather, thus using less pesticides, requiring less maintenance, and ultimately using significantly less water than non-native alternatives



RESIDENTIAL PLAZA | NEIGHBORHOOD 5





DINING COMMONS | GREEN BEND





NORTH SOUTH SECTION PERSPECTIVE

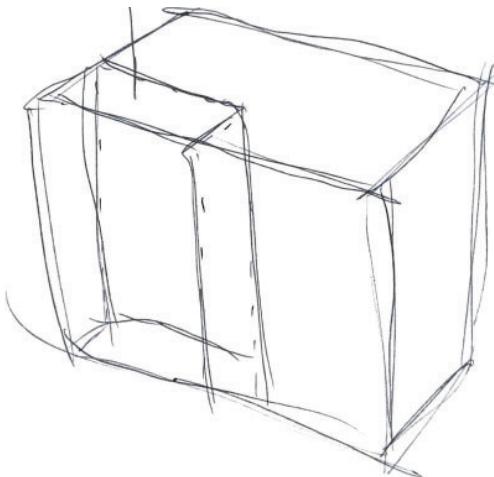


# 02 THE POLY POD

EMERGENCY SLEEPING CABIN | 144 SF  
Sacramento, CA  
Professor: Mark Roddy  
Fall 2023

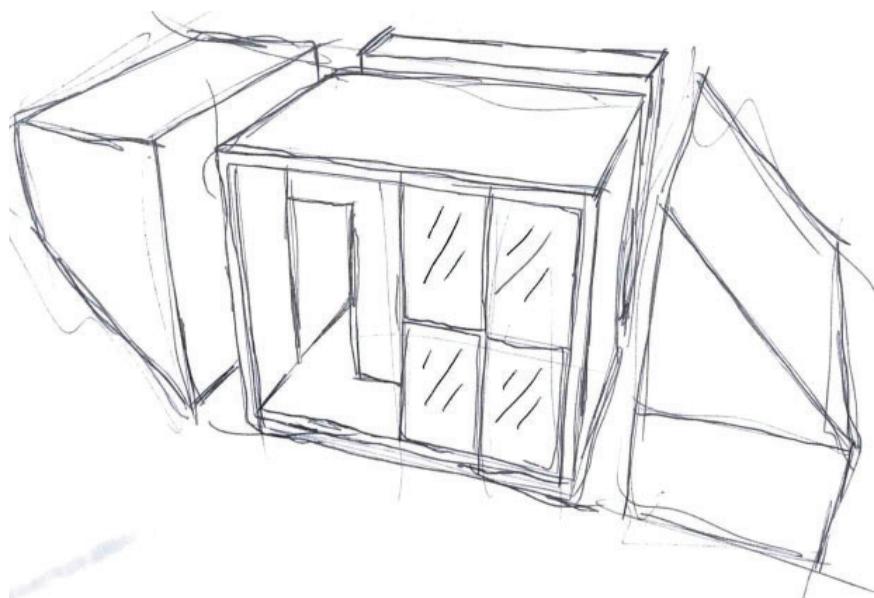
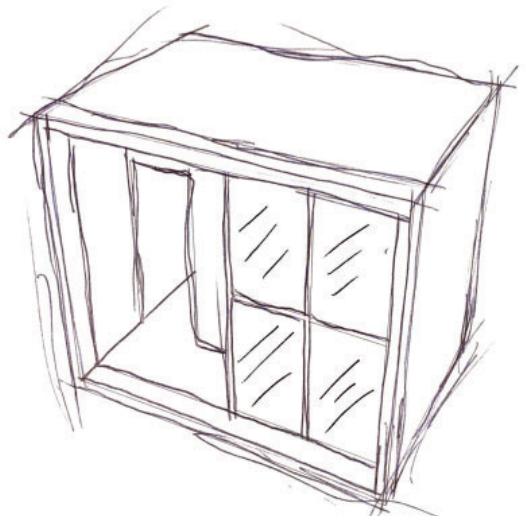
Whether it is poverty, affordable housing, debilitating physical or mental health concerns, unemployment, and so forth, the one thing that is consistent is that homelessness does not discriminate. Anyone can become homeless for any number of reasons but, that should affect the bottom line regarding humanitarian standards in the way society views the homeless in our collective attempt to get them off the streets. Every person, homeless or housed deserves an equal right to privacy, security, dignity in where they sleep, and a sense of belonging/ community.

Thus, "The Poly Pod" was born out of a collaboration between the CSUS Interior Architecture Program's senior class, under adjunct lecturer, Mark Roddy and Sacramento Architecture firm, DLR Group, whereby the senior class was proposed a one week design competition. Outlined by a single occupancy emergency shelter, dubbed "sleeping cabin" no larger than 12'x12'x12' (for the sake of transportation), students were prompted to create something that was aesthetically more humane than the currently circulated sleeping cabins used in currently active tiny home communities that yielded a dimension of community whether that was through aesthetic composition, dynamacy or modularity in response to the growing humanitarian concerns over warehousing the homeless, in which "The Poly Pod" placed top two in the competition.



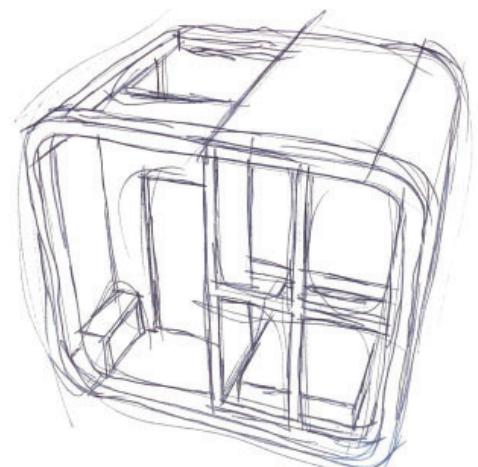
**01** - simple block whereby a chunk of the rear face is removed, originally intended for the interplay of layouts and ability to more directly connect the pods together

**02** - The rear face becomes the front face making use of the erasure to create a small promenade and porch like space, making the resemble more home-like features and gains a full height window



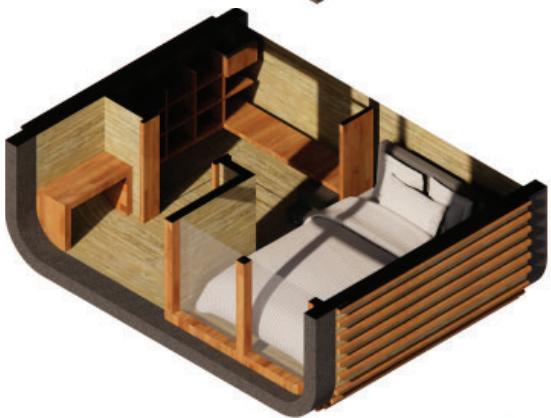
**03** - Rather than directly connected the pods modular shapes with different functions are developed with the intent that pods will use each other's modular attachments, embedding a sense of community into the core design

**04** - The height is brought down, visually elongating the width, the edges of the pods are filleted, creating a softer silhouette, a built in bench around the porch for users to experience outdoors from the comfort of their own space which also provides some outdoor storage, and an additional skylight window is added to maximize daylighting



## LAYOUT | MODULAR ATTACHMENTS

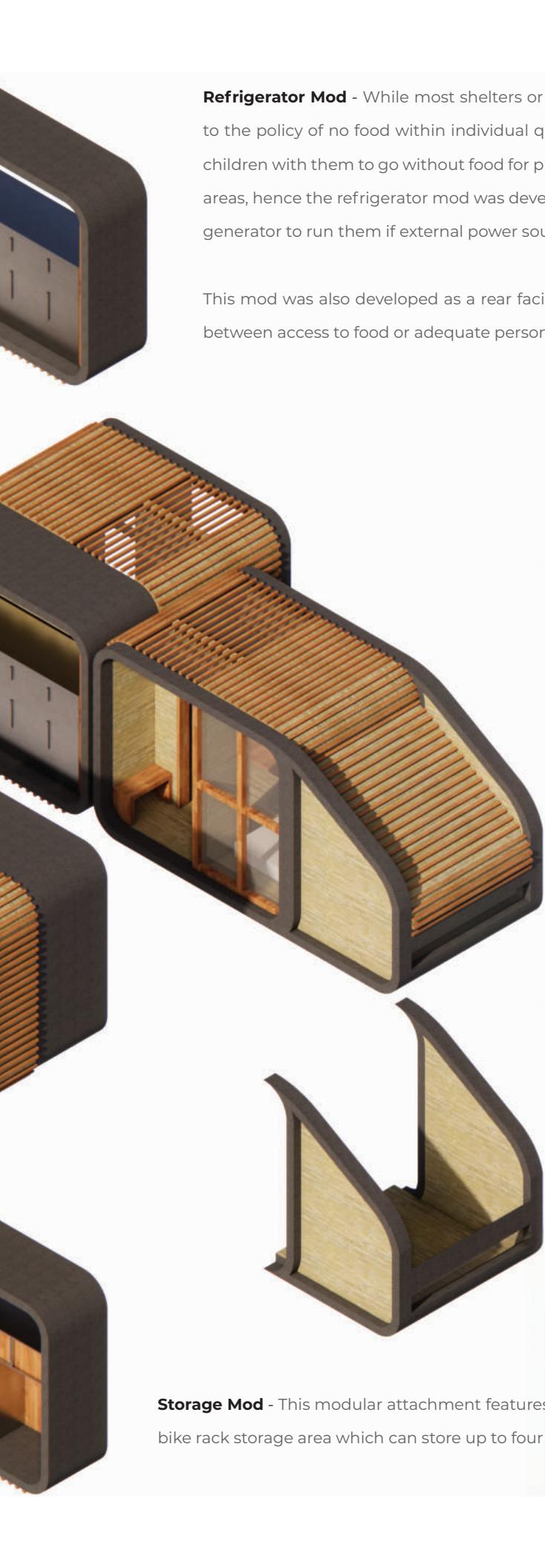
**Laundry Mod** - This modular attachment features a system to hook up to garden hoses, features two wash basins and six retractable clothes lines that all fold into the confines of the attachment's existing size



Users are greeted with height-customizable shelving units and desk that also serves as the base for hangable belongings, all directly positioned underneath skylight window allowing for natural daylighting

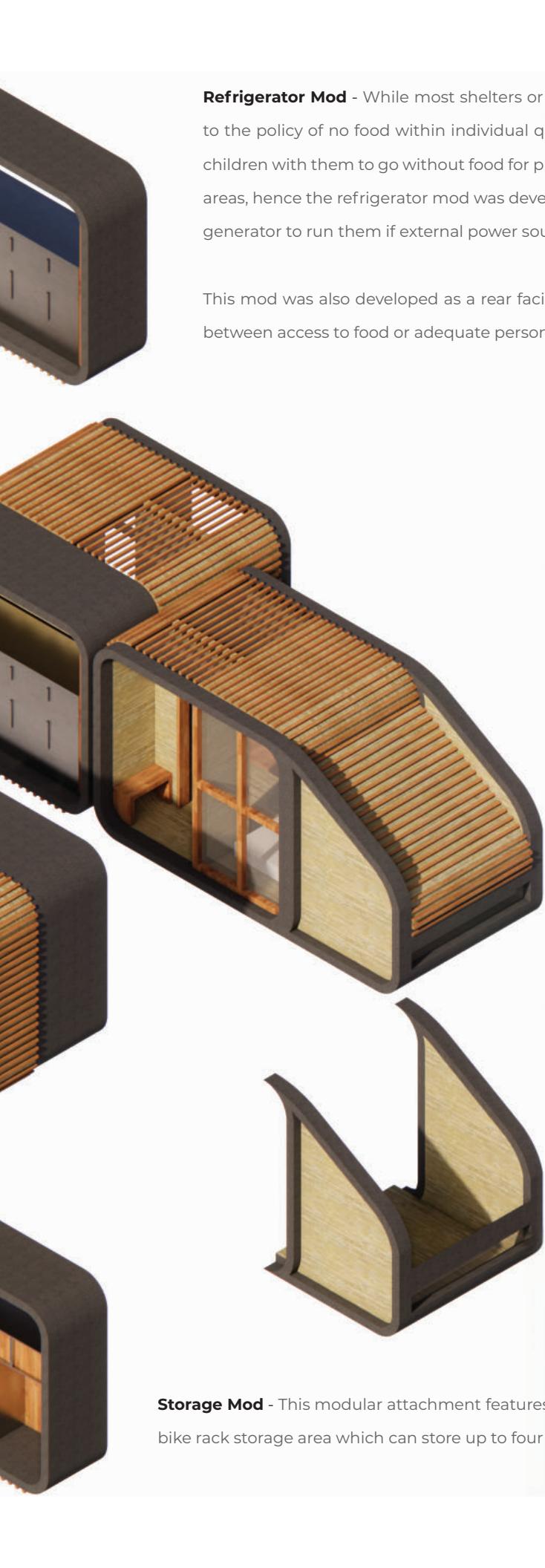
Each Poly Pod comes standard with a full size bed which can be interchanged for a twin bunk bed for multiple user occupancy pods



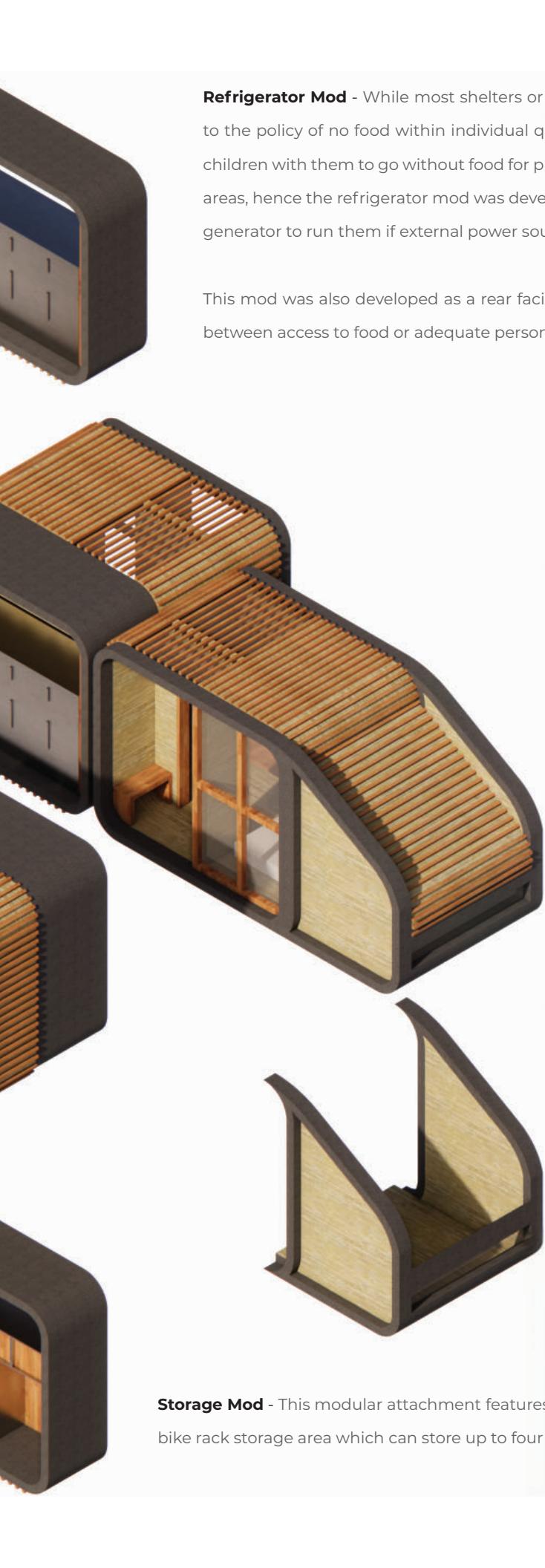


**Refrigerator Mod** - While most shelters or unhoused transition centers that would employ Poly Pods would conform to the policy of no food within individual quarters, it is unreasonable to expect people especially those who may have children with them to go without food for prolonged periods of time, especially given their potential proximity to dining areas, hence the refrigerator mod was developed with four lockable independent refrigerators with shelving above for a generator to run them if external power sources are not available

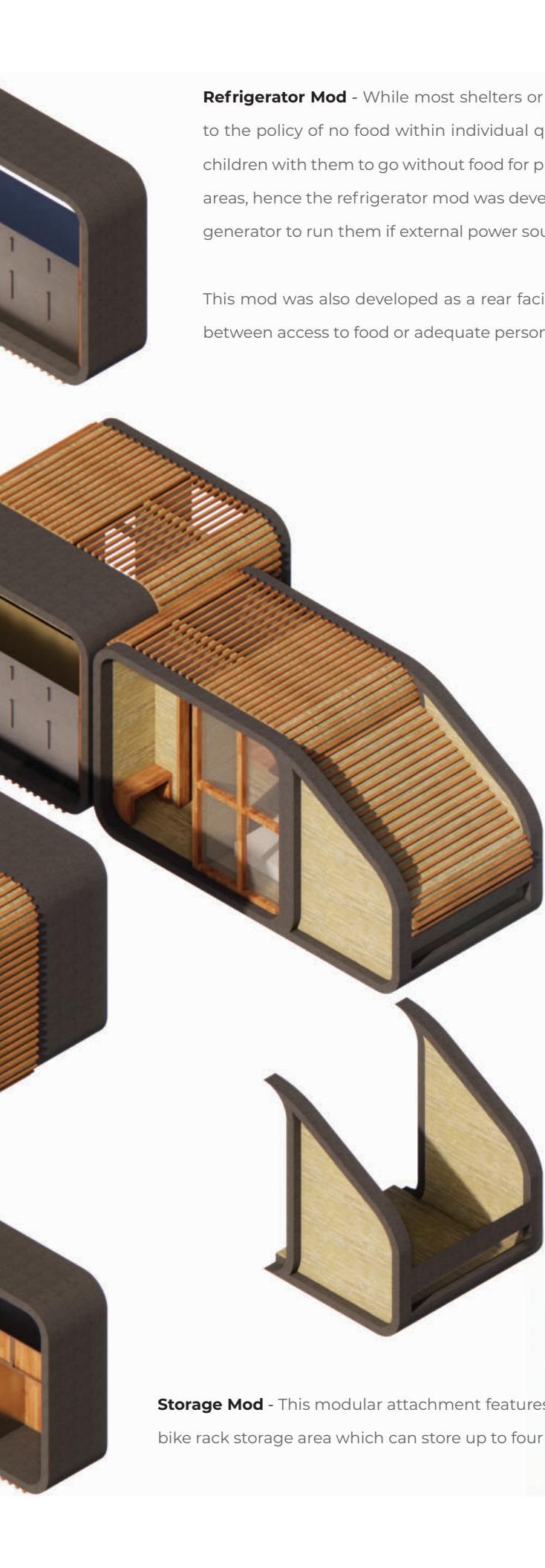
This mod was also developed as a rear facing mod so that occupants utilizing the family mod do not have to choose between access to food or adequate personal space but rather, can employ both mods



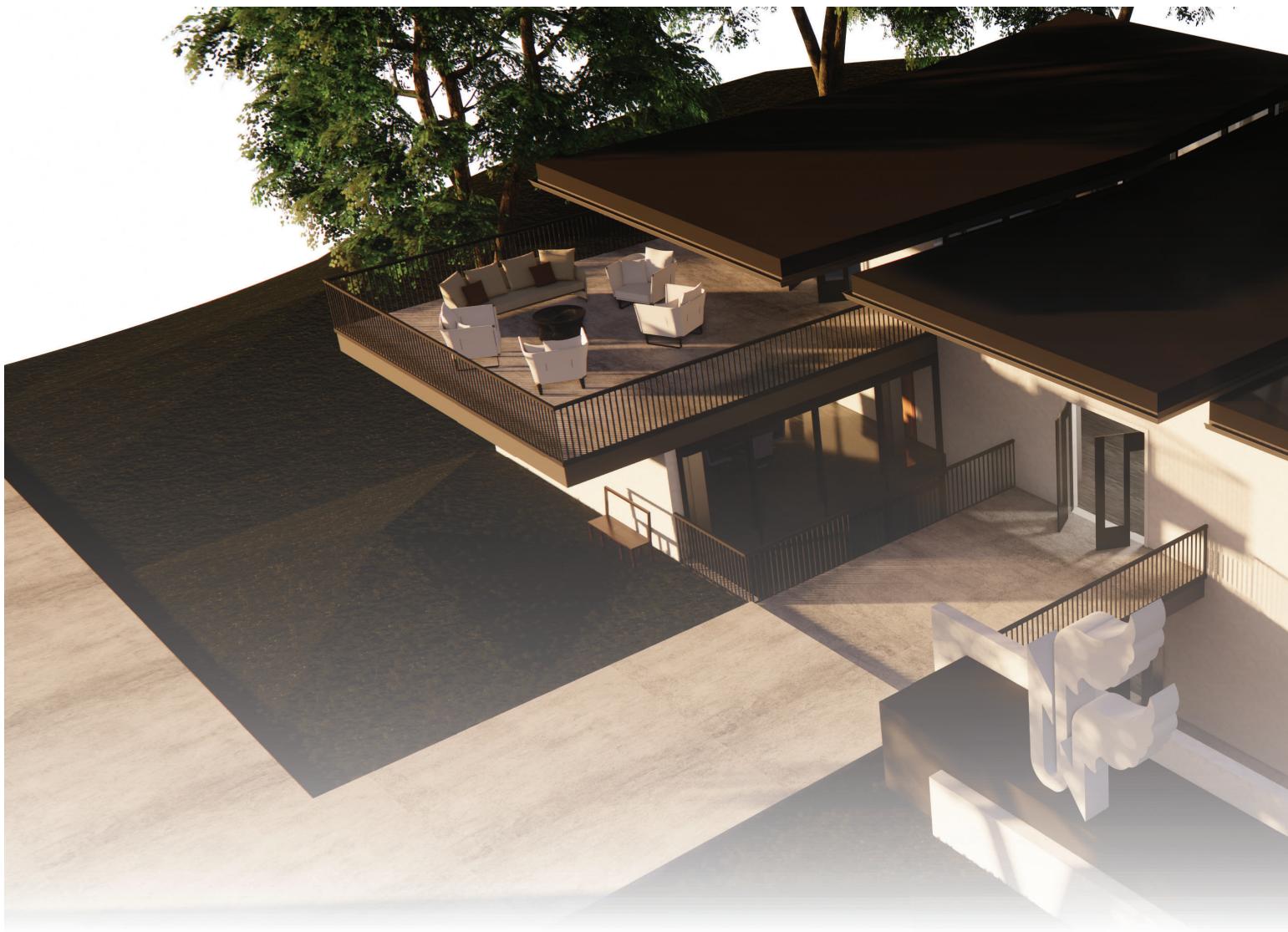
Given the ability of each Poly Pod to utilize up to two modular attachments at any given time, communities of Poly Pods are meant to be dynamic and conform to the allotted space at hand regardless of external resources and can thus be placed in a variety of combinations and layouts



**Family Mod** - This modular attachment extends the original sleeping cabin, converting it from a single person occupancy (two person occupancy for couples) unit to a three to four person occupancy unit by folding out one wall into a sloped roof, maintaining the same width and length to fit a second full sized bed



**Storage Mod** - This modular attachment features four full sized lockers, six 1/3 size overhead storage cabinets, and a covered bike rack storage area which can store up to four bikes



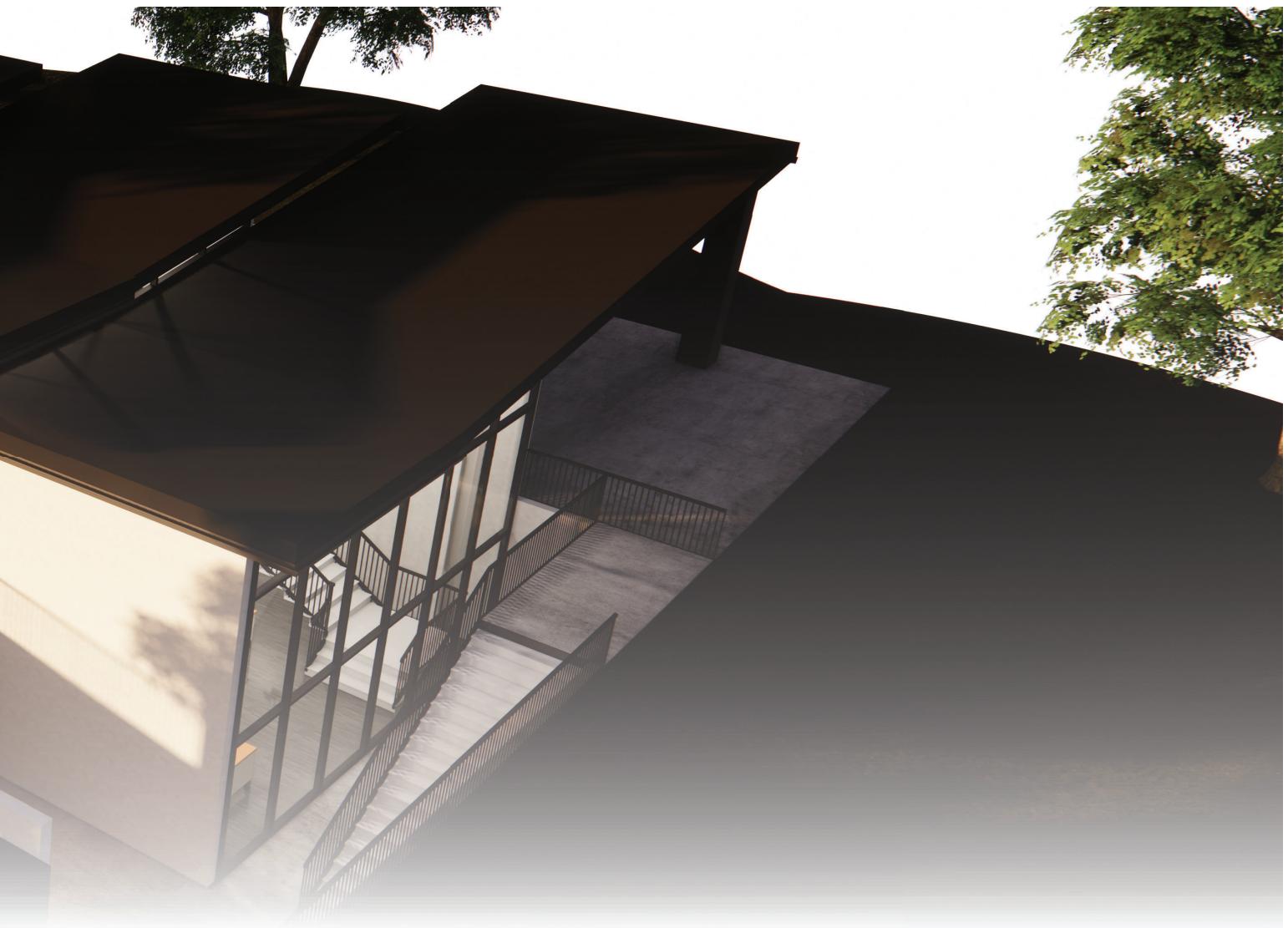
# 03

## HILLSIDE HAVEN STUD

DESIGN & ARCHITECTURE STUDIO | 5,520 SF  
Sacramento, CA  
Professor: Jeff Nokkeo  
Fall 2023

Paying homage to the renowned hiking qualities of the foothills in the Folsom, CA area, this Sacramento-based design and architecture studio space is meticulously crafted to reflect a hierarchical logic that physically embodies the essence of a journey through foot, hike, and peak, while functionally expressing equally symbolic qualities.

At the foot, or sub-level, the main bullpen, private collaboration space, general meeting area, and principal's office converge, serving as the pivotal point for the firm's operations and collaborative efforts. Ascending to the hike level, analogous to the meat and bones of any journey, one encounters the client showcase area. This space serves as a vital platform for maintaining alignment between clients and faculty regarding the progress of a given project, where design challenges are presented and creatively resolved. Finally, reaching the peak, symbolic of the apex of the journey, visitors encounter the main break/lounge space for employees. This area not only offers a panoramic view, akin to the moment of relief provided by reaching a summit, but also fosters a sense of community and relaxation for the studio's team members, promoting creativity and camaraderie.

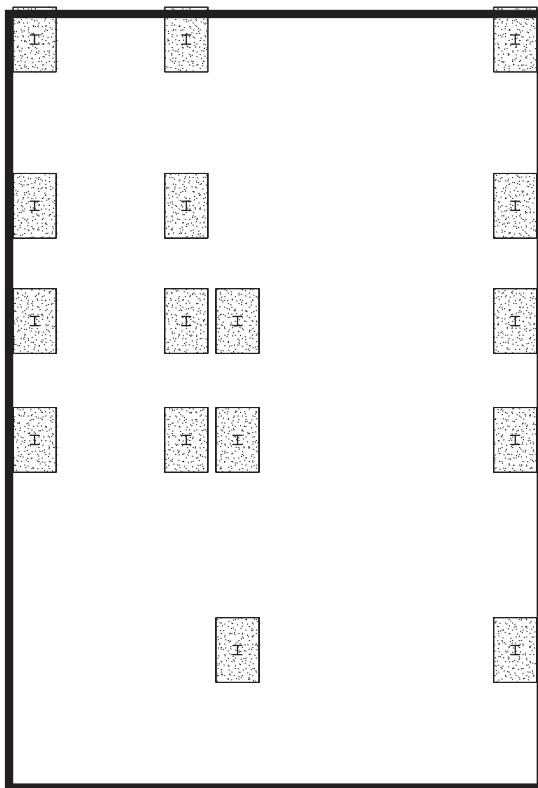


# IOS

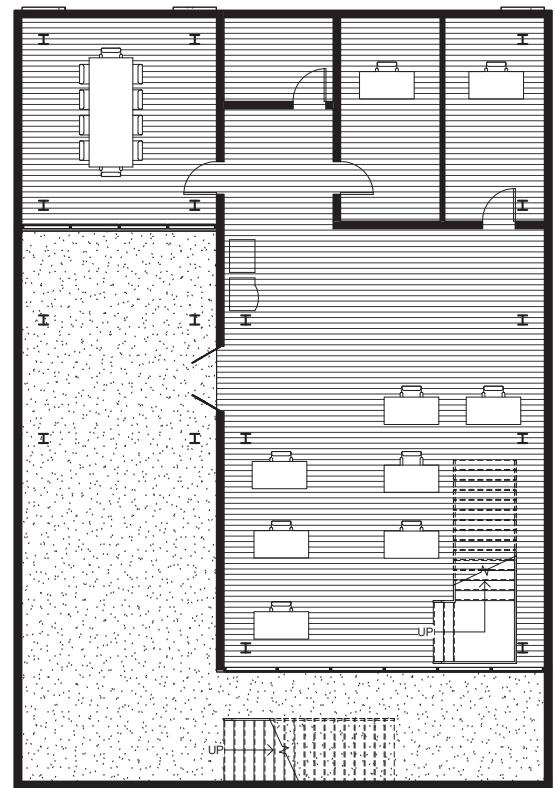
In essence, this architectural masterpiece seamlessly integrates form and function, drawing inspiration from the natural landscape of the region to create a space that not only reflects the journey of the foothills but also facilitates creativity, collaboration, and innovation within the studio environment.

Adobe Photoshop   Revit  
Enscape   Adobe Illustrator

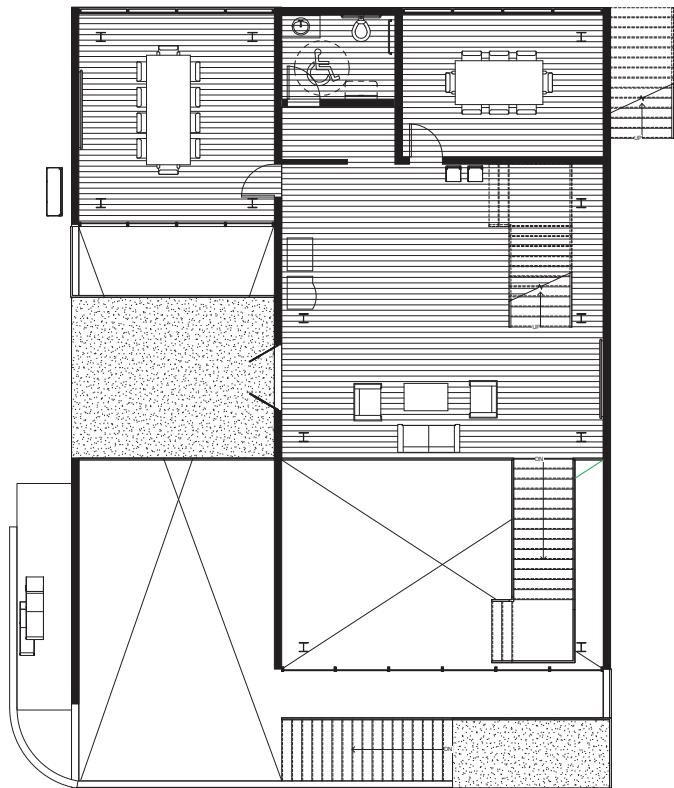
## FLOOR PLANS



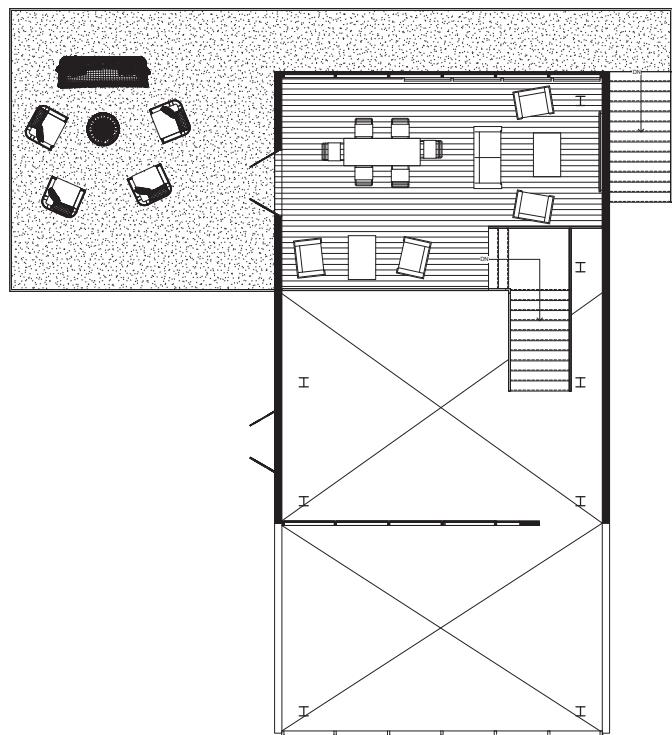
Foundation



Level 0

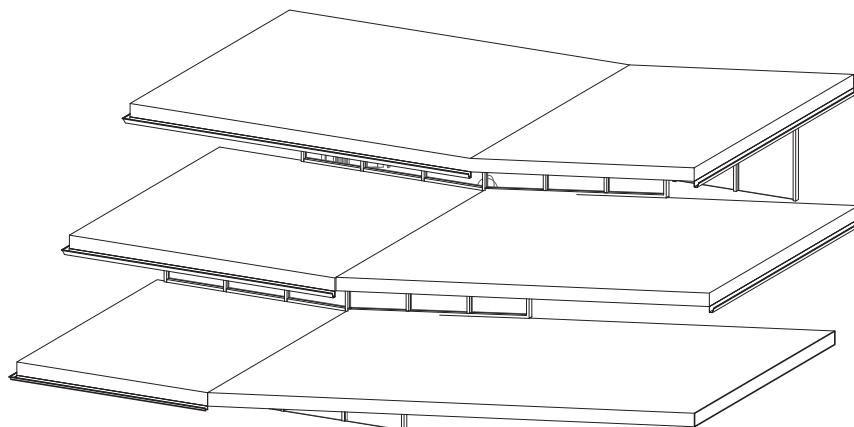


Level 1

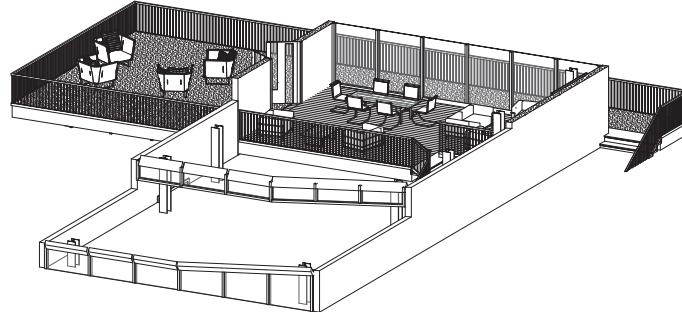


Level 2

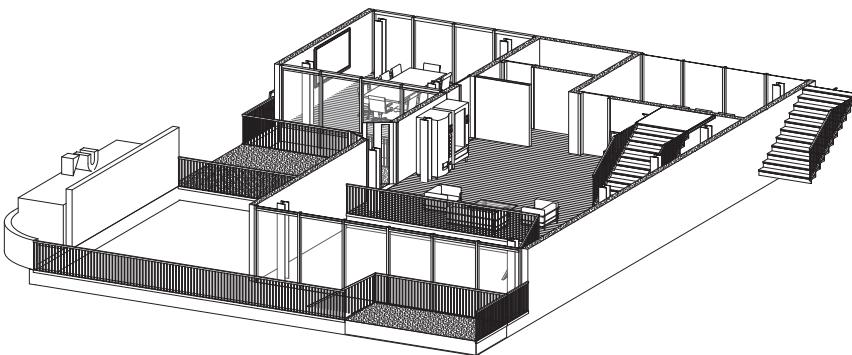
## EXPLODED AXON



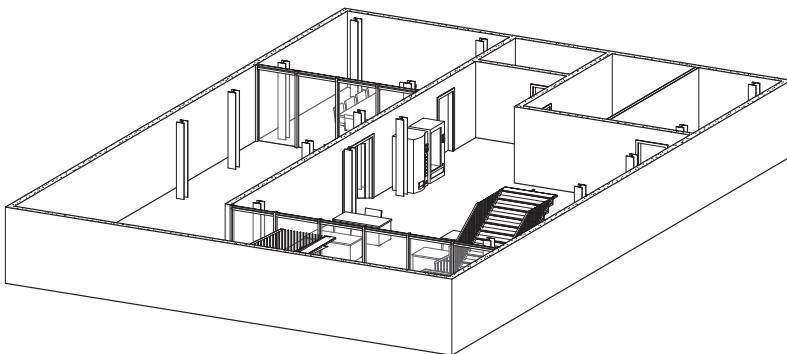
**Roof** - three tier roof, equal in width, each indicative of the respective levels, correlated with each roof's length to accentuate the heirarchical importance of each space, all equipped with clerestory windows and lightshevels to maximize daylighthing



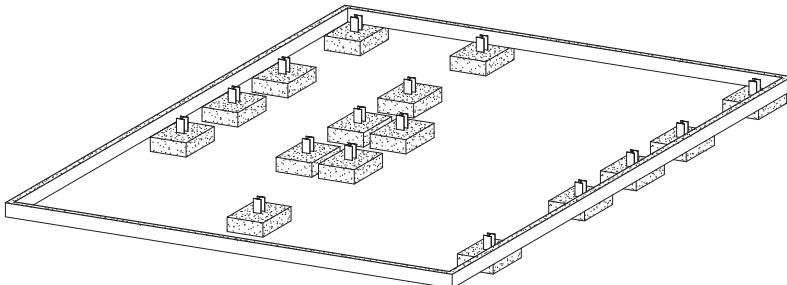
**Level 2** - break area that leads to outdooor patio lounge space



**Level 1** - main client engagement space comprised of lobby, large private meeting room as well as a presentation room

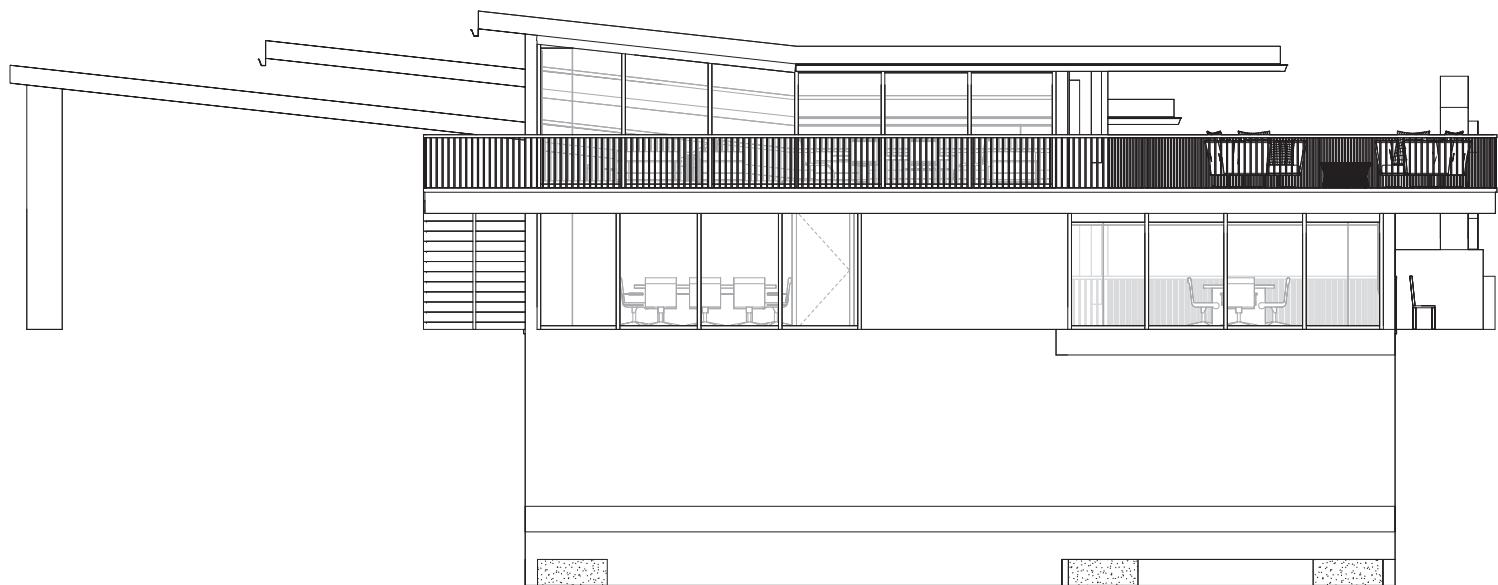


**Level 0** - working area euipped with meeting room, open office area, private collaboration space, and principal's office, and outdoor sub-level entertaining area for company/ client events

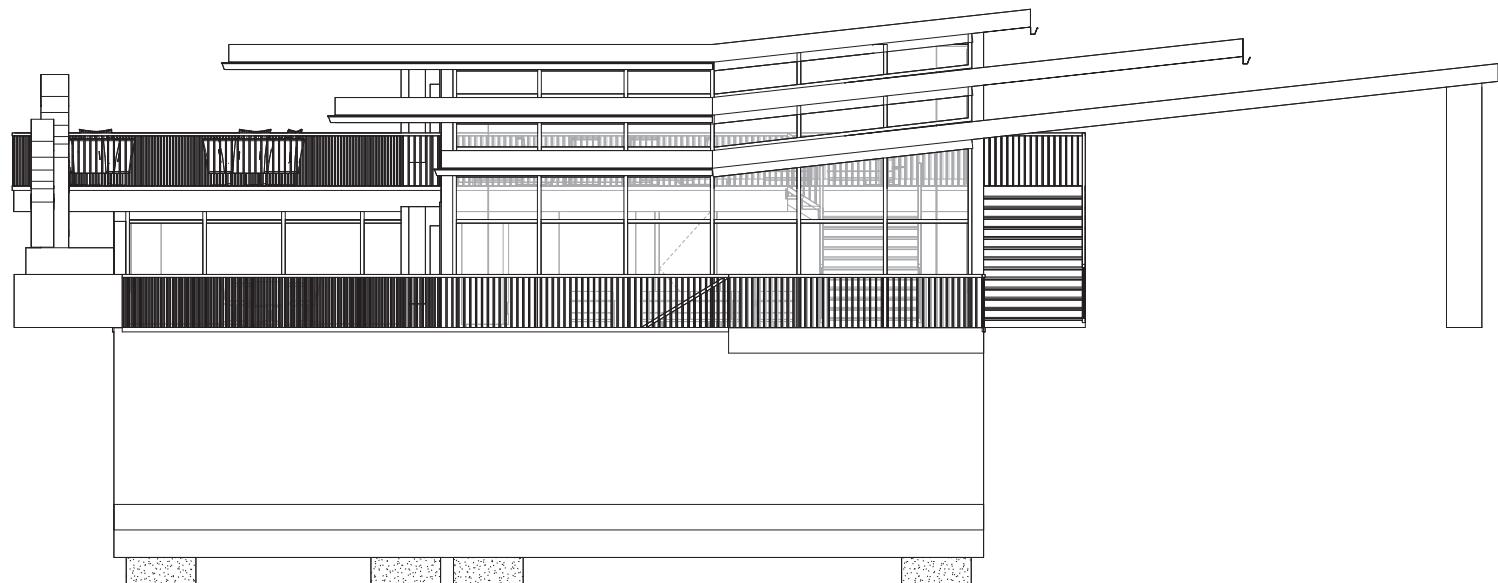


**Foundation**

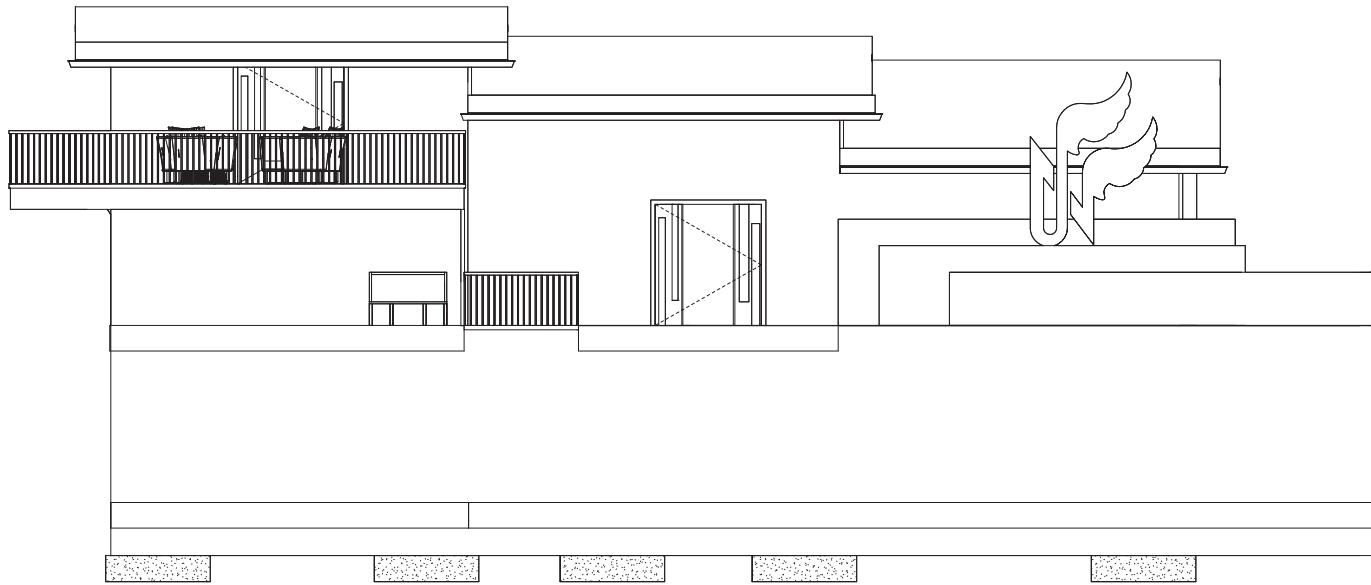
## ELEVATIONS



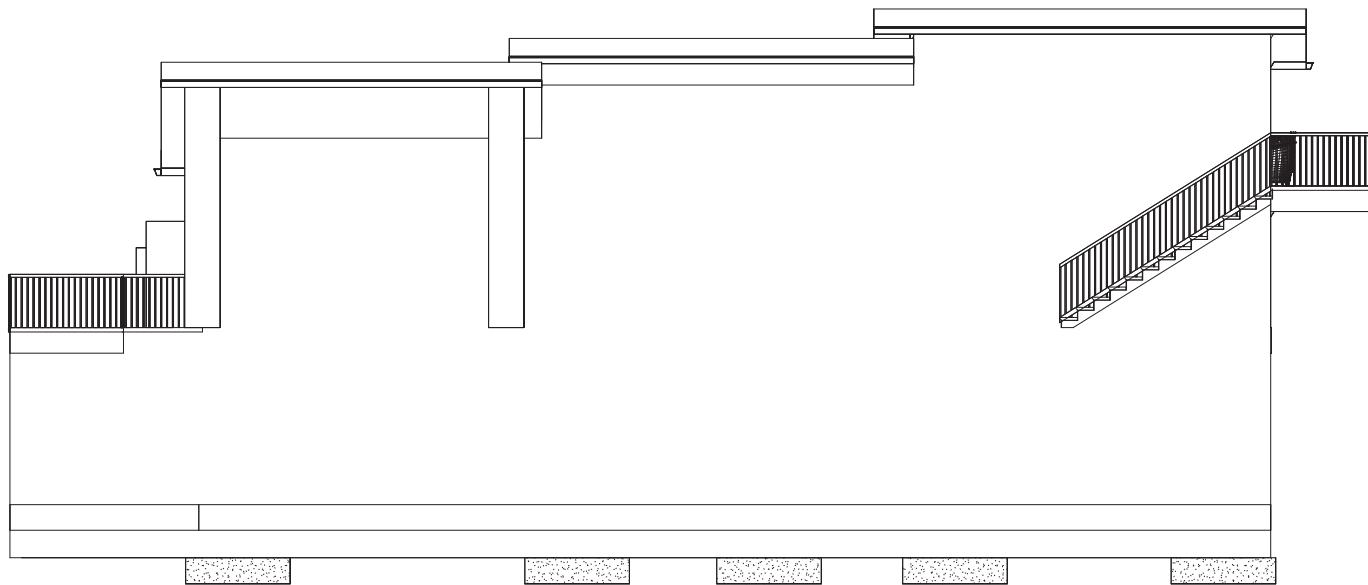
**North**



**South**

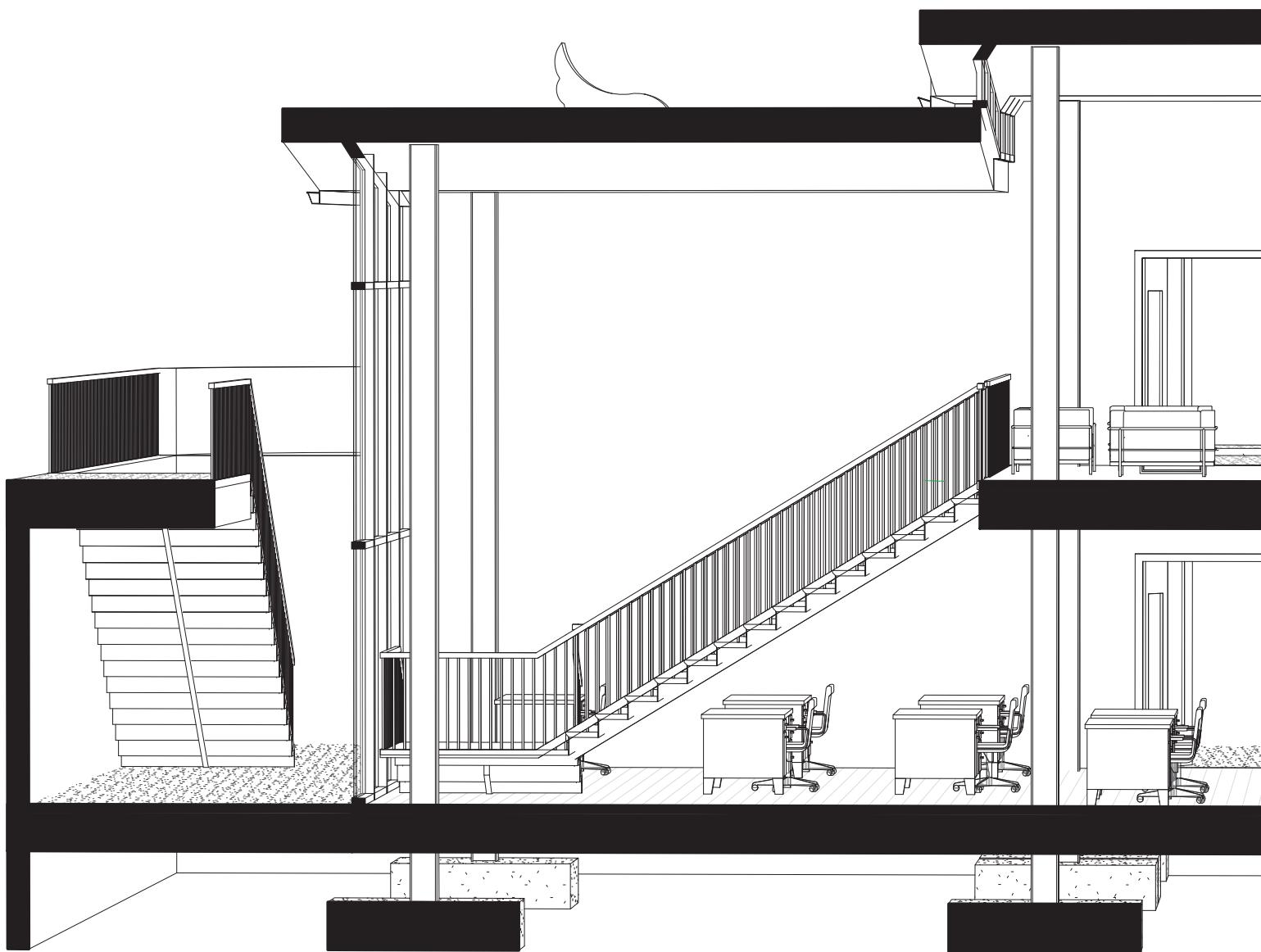


**West**



**East**

EAST WEST SECTION PERSPECTIVE







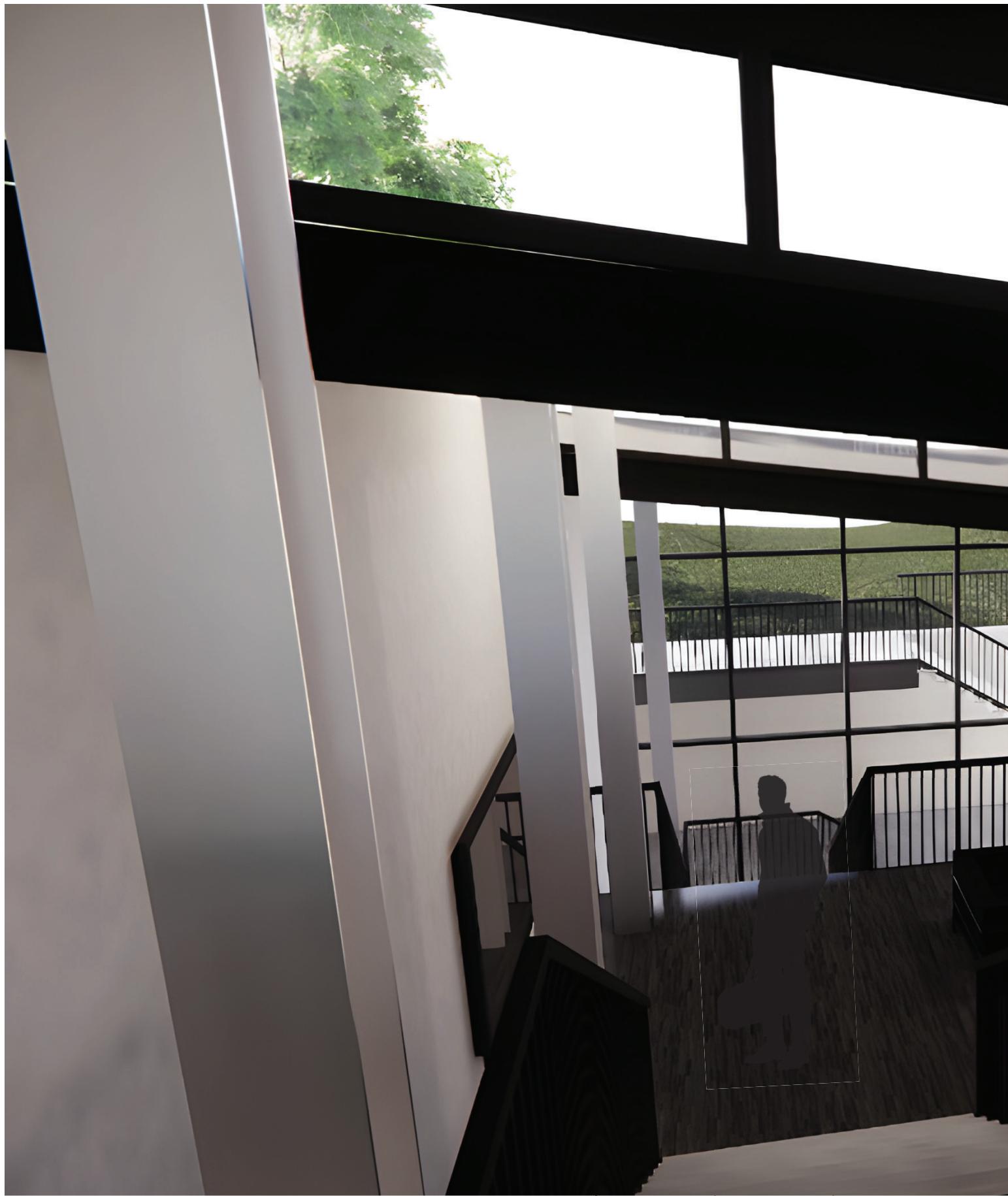
PROMENADE | PUBLIC ENTRY







PRIVATE ENTRY



INTERIOR CIRCULATION





04

## MJÖLNIR'S NAIL

TOWN HOUSE | RETAIL SPACE | 7,500 SF

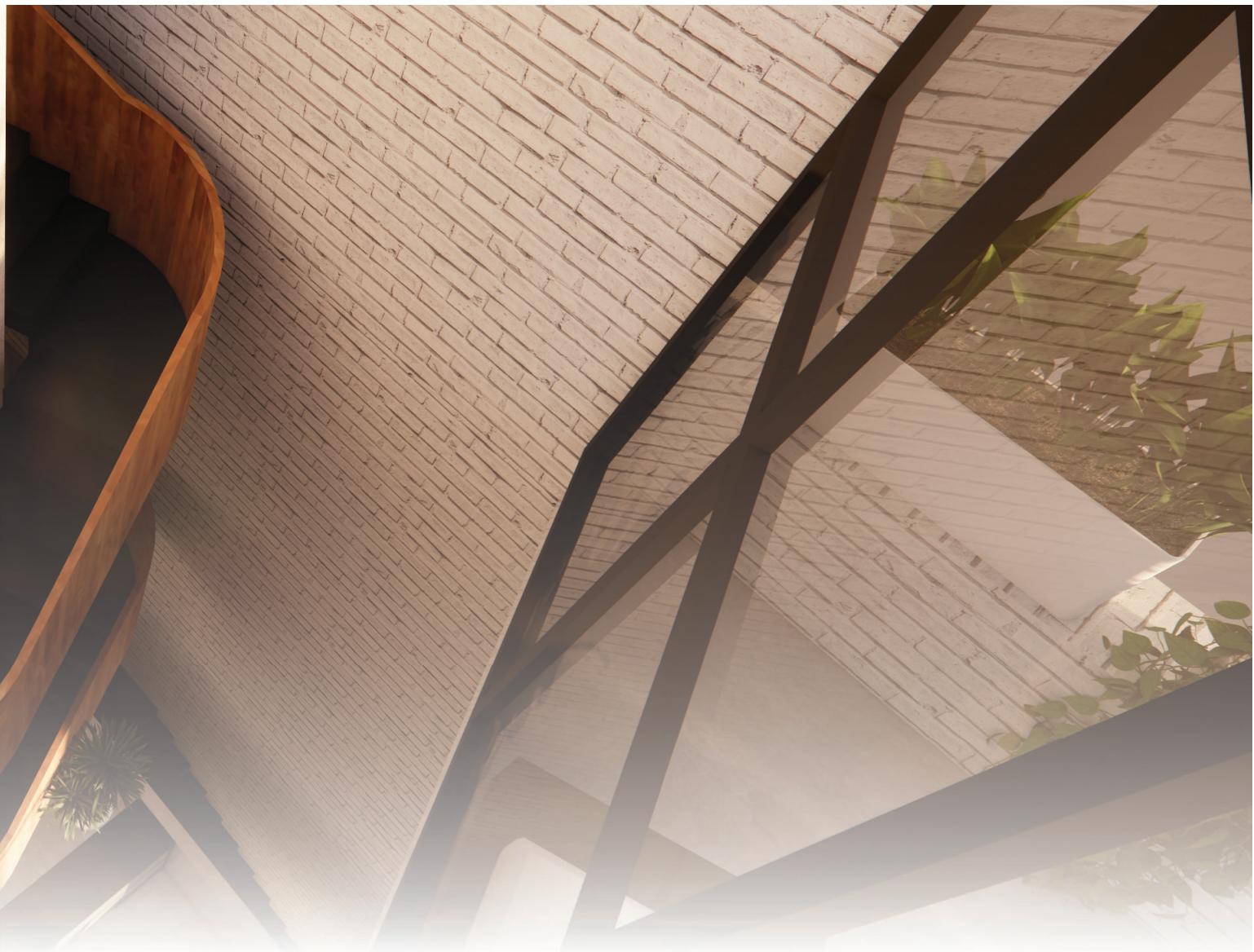
Durham, NC

Professor: Dr. David Sledge

Spring 2022

In the heart of Durham, North Carolina, stands a historic townhouse with a narrative deeply intertwined with the fantastical realms of Marvel comics. This architectural marvel serves not only as a residence but as a homage to the iconic character Thor, a beacon of power, myth, and modern legend. At first glance, the townhouse preserves its historic integrity, blending seamlessly into the architectural tapestry of Durham. Yet, upon closer inspection, it reveals itself as a nexus where reality and fantasy converge.

The penthouse floor, crowned with a distinctive butterfly roof, serves as the remnant barrier between realms, pierced by a nail struck by Mjolnir, the mighty hammer of Thor. The centerpiece of this penthouse floor is the elevator shaft, or the 'nail', which spans through each level down to the basement garage, appearing to penetrate through the entirety of the townhouse, even causing the break creating the butterfly roof. Descending down to the mezzanine level second floor, bedroom suites are meticulously designed with the residents' affinity for comics, books, and collectibles, as ample storage space in each suite is provided, retaining its rectilinear logic hidden behind the grand panel walls/ doors that separate the private spaces from the public spaces that are otherwise prone to having their logic manipulated, bending their

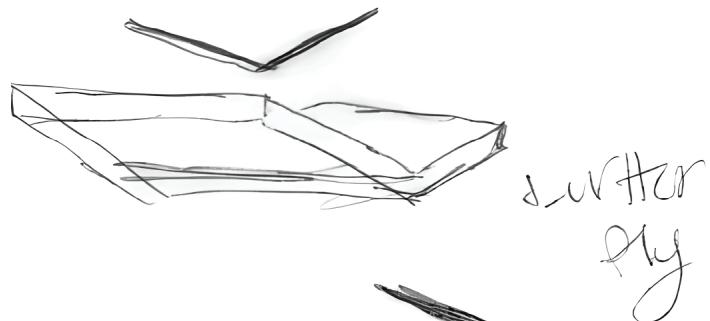
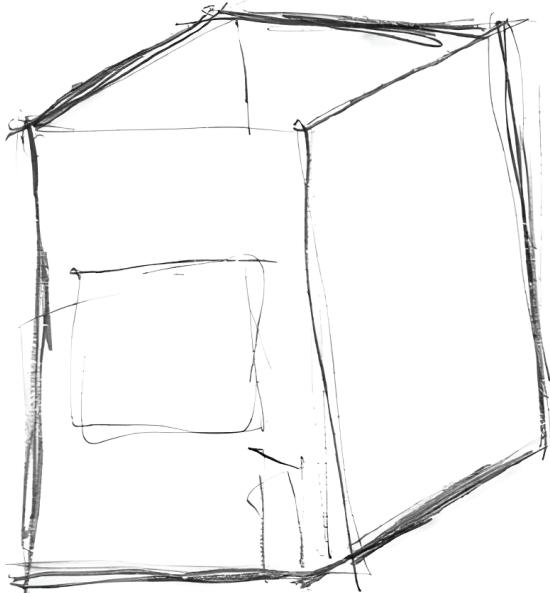
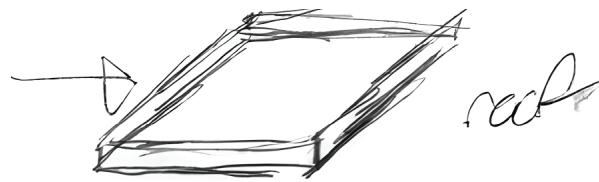
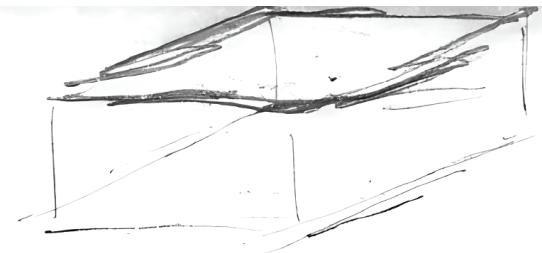


orthogonal nature to that of the asgardian energy-imbued elevator shaft and stairs. This is seen most prominently in the reading nook area of the mezzanine that overlooks the formal dining room, living room, and even down into the city streets. The Piano Noble embraces the 'nail' as the centerpiece with a buffet built around it as its balustrade extends, walling off the stairway entry that also conforms to the 'nail' akin to the reading nook. Behind the panel walls of this floor lies the third bedroom suite and kitchen. Lastly, the ground floor features the retail space, reminiscent of Asgard's grand hall, is transformed into a vibrant cosplay and comic book shop, a sanctuary for fans to immerse themselves in their favorite narratives.

In essence, this townhouse is more than just a residence; it is a shrine to the power of storytelling, the enduring legacy of myth, and the boundless potential of imagination. It stands as a testament to the cultural significance of comics and their ability to inspire, unite, and transform lives.

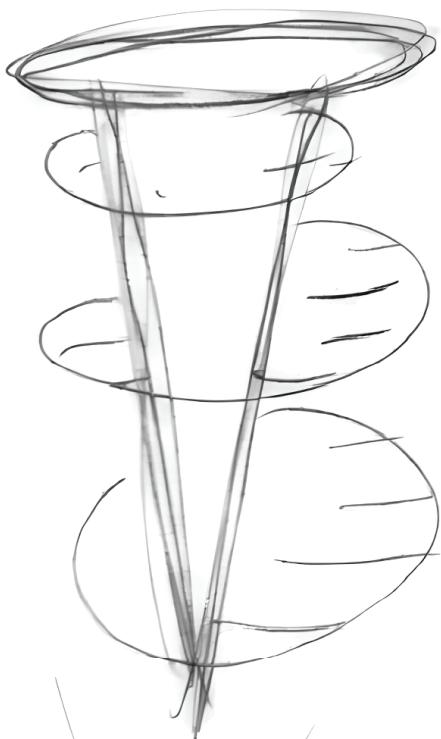
Enscape   Adobe Photoshop   Revit  
Sketchup   Adobe Illustrator

## CONCEPT DEVELOPMENT



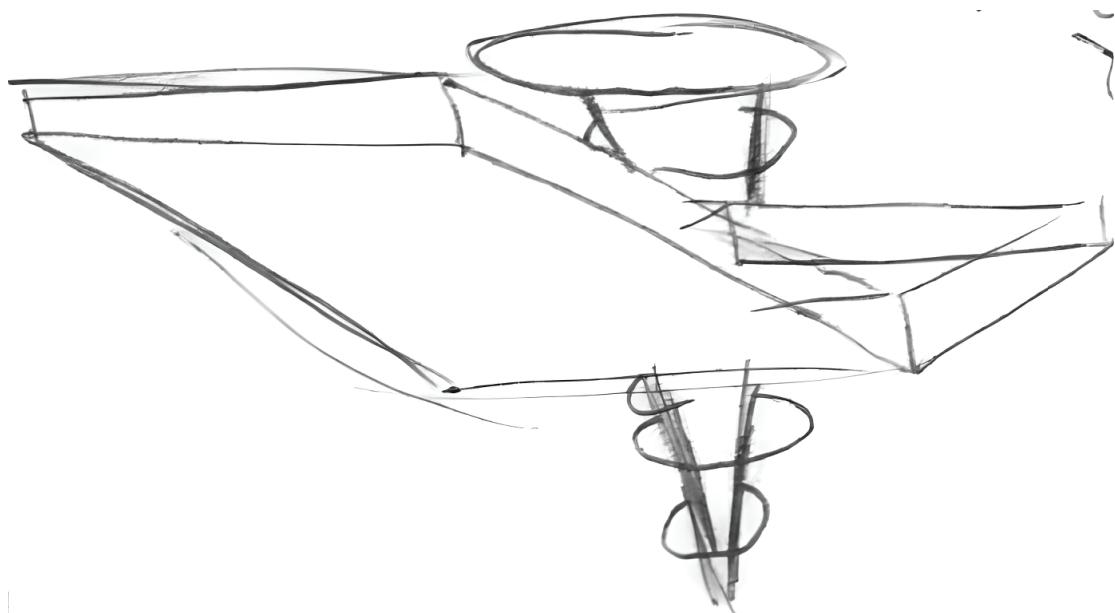
**01** - Existing historically protected structure with allowance of penthouse floor development

**02** - Roof of penthouse sweet iterations, regular flat top, modernized butterfly roof, more contemporary and simplified shed roof



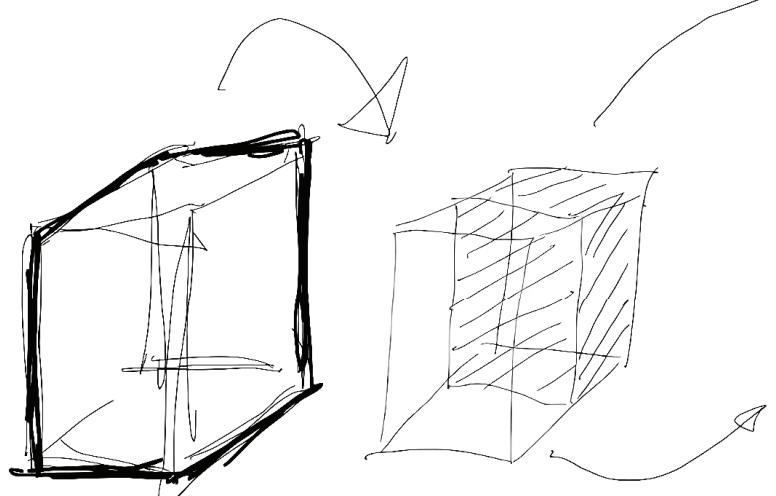
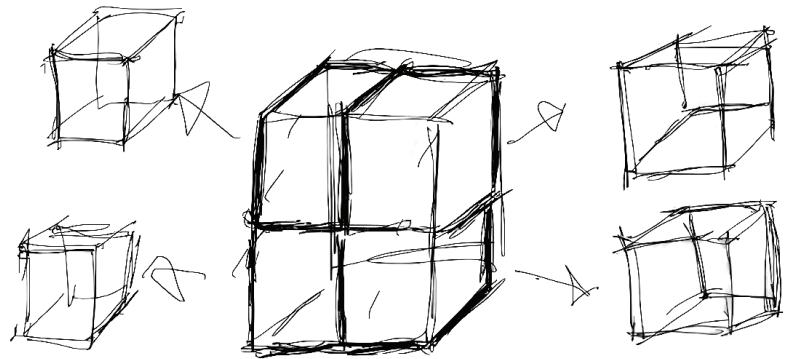
**03** - The program defined staircase and elevator shaft become a singular element with the stairs wrapping around the elevator shaft, creating a screw or nail esq. movement, meticulously positioned about the butterfly roof creates a grandiose element, making the shaft 'responsible' for the break in the roof, which inadvertently creates the butterfly roof

Modernity breeds modernity - a modern/ unconventional elevator shaft placed within a historical townhouse creates a modern butterfly roof

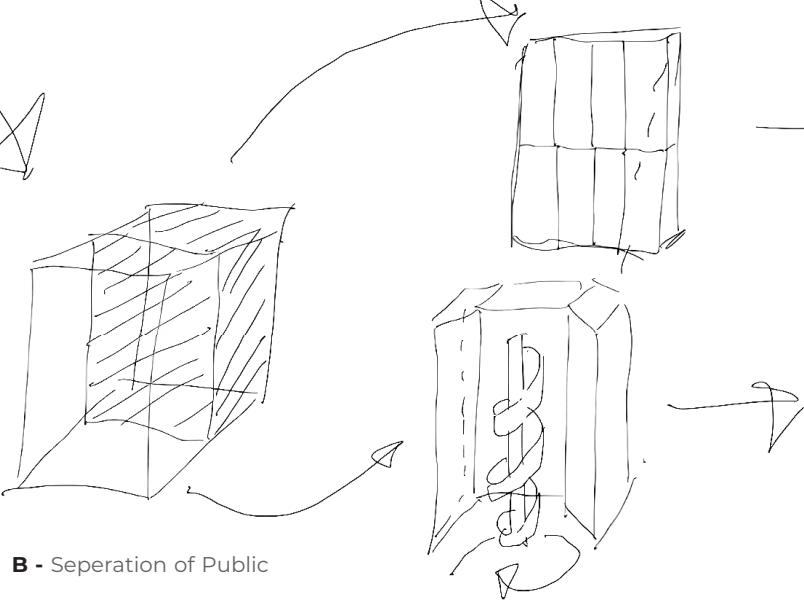


**04** - Modernity breeds modernity - a modern/unconventional elevator shaft placed within a historical townhouse creates a modern butterfly roof and forces the coexistence of juxtaposing logic without either having to sacrifice its identity

**E** - Private spaces retain their orthogonal logic and are broken down into four equally sized spaces, two bedroom suites above, a single bedroom suite below and kitchen



**A** - Existing form

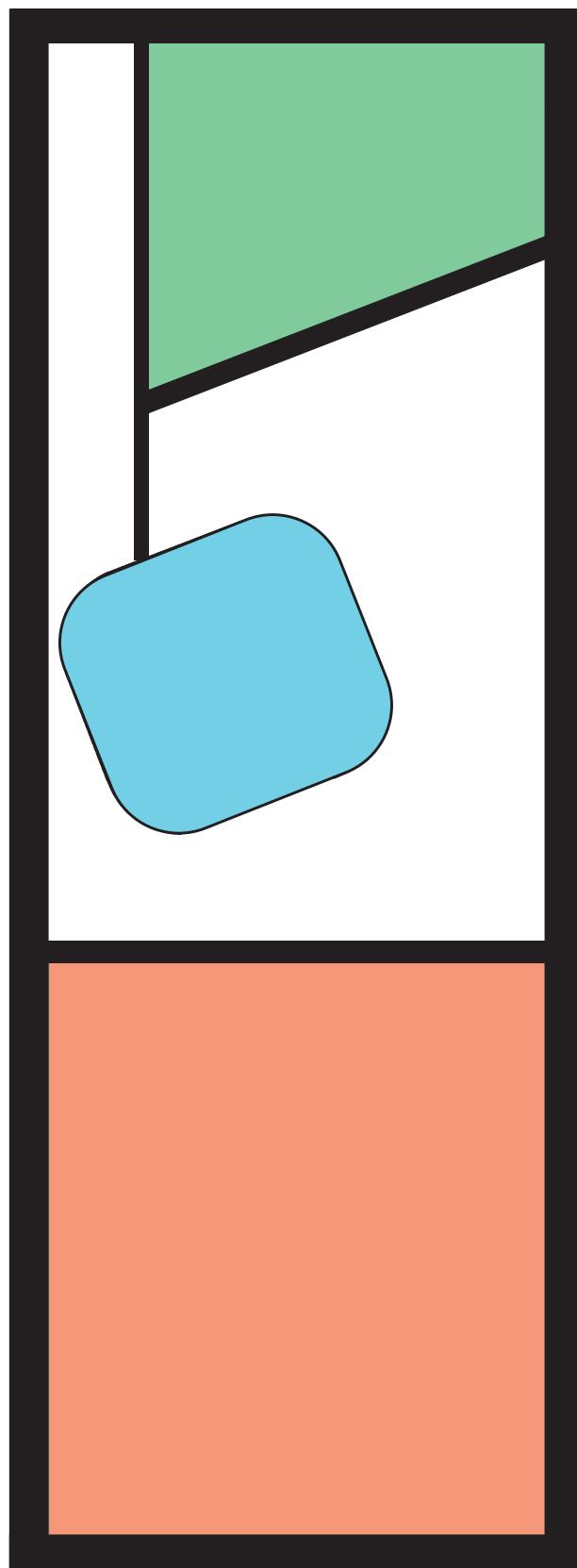


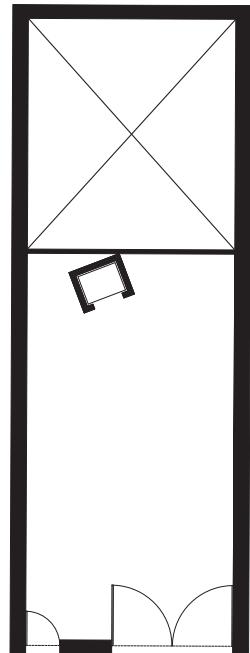
**B** - Separation of Public and private space

**D** - Floor to ceiling panel walls separate logic on each floor

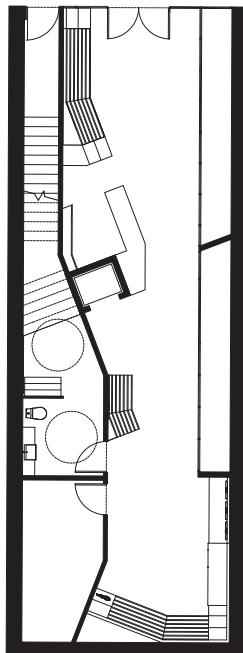
**C** - Public space conforms to twisting logic of nail

PART I

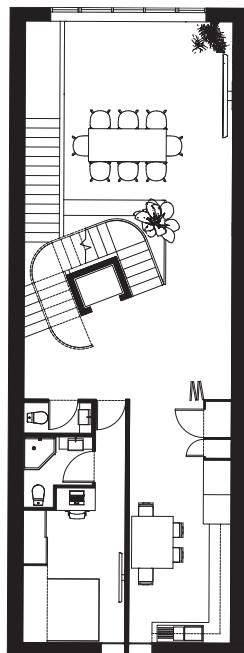




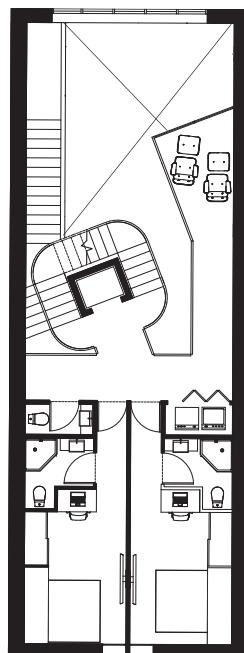
**Basement/  
Garage**



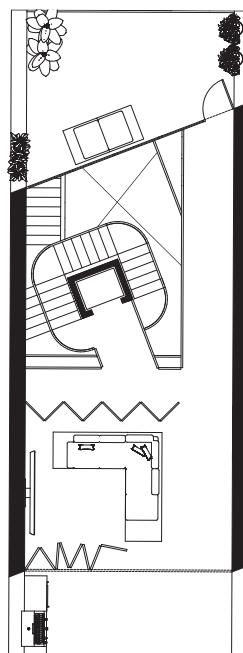
**Ground  
(Retail)**



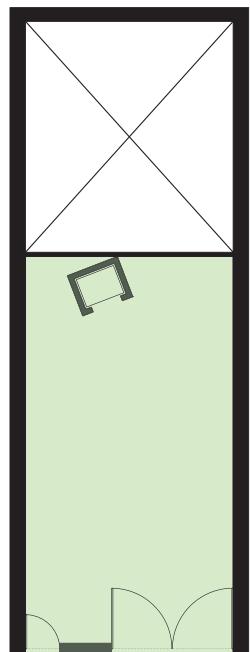
**Level 1**



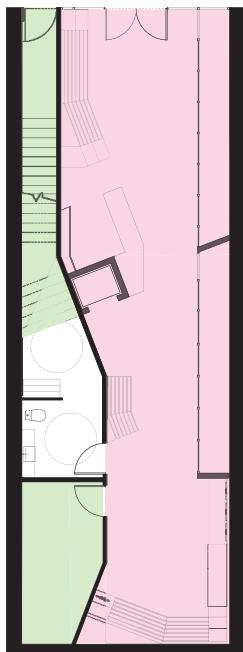
**Level 2  
(Mezzanine)**



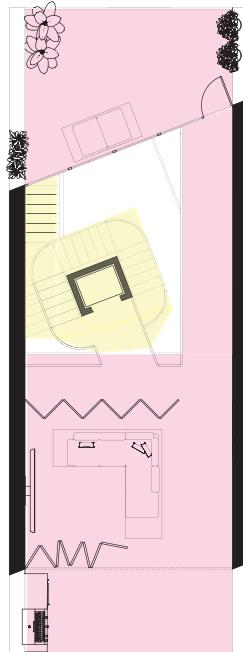
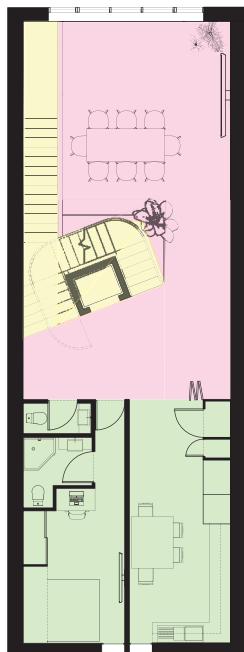
**Level 3  
(Penthouse)**



**Private**

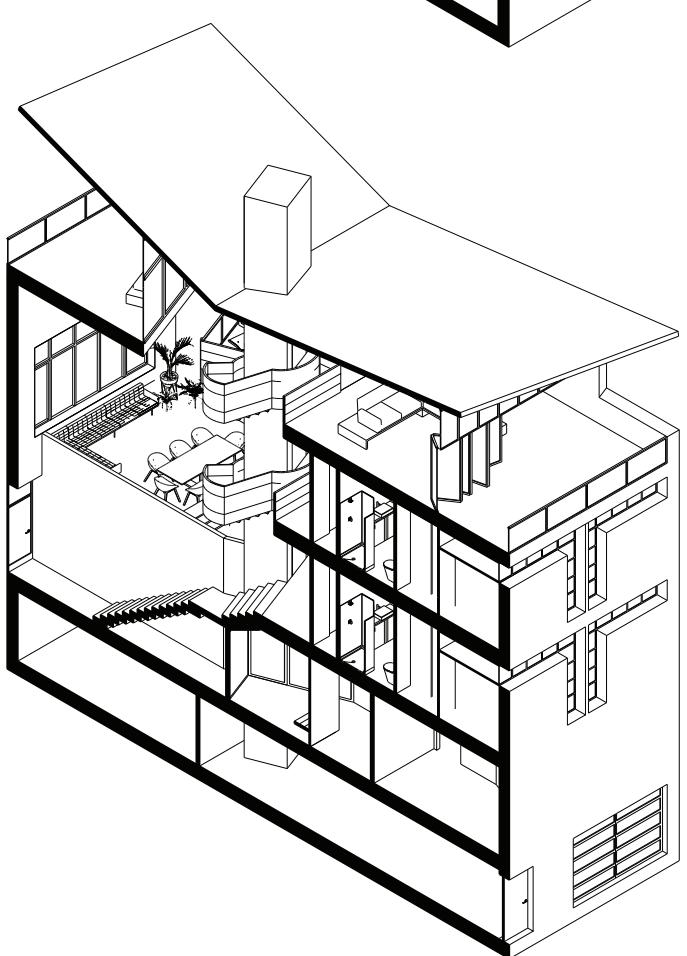
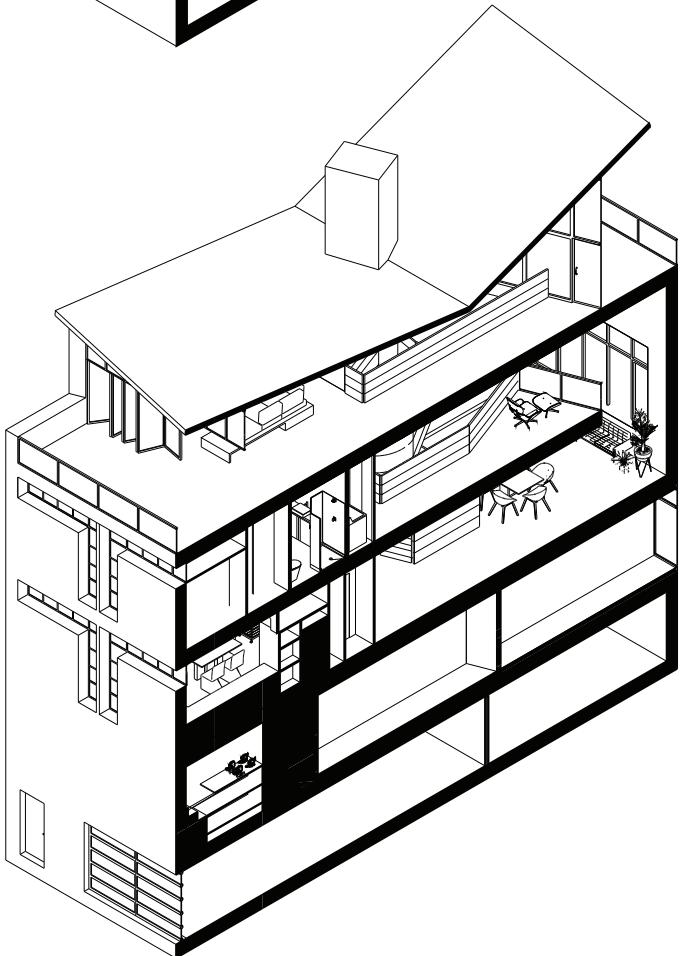
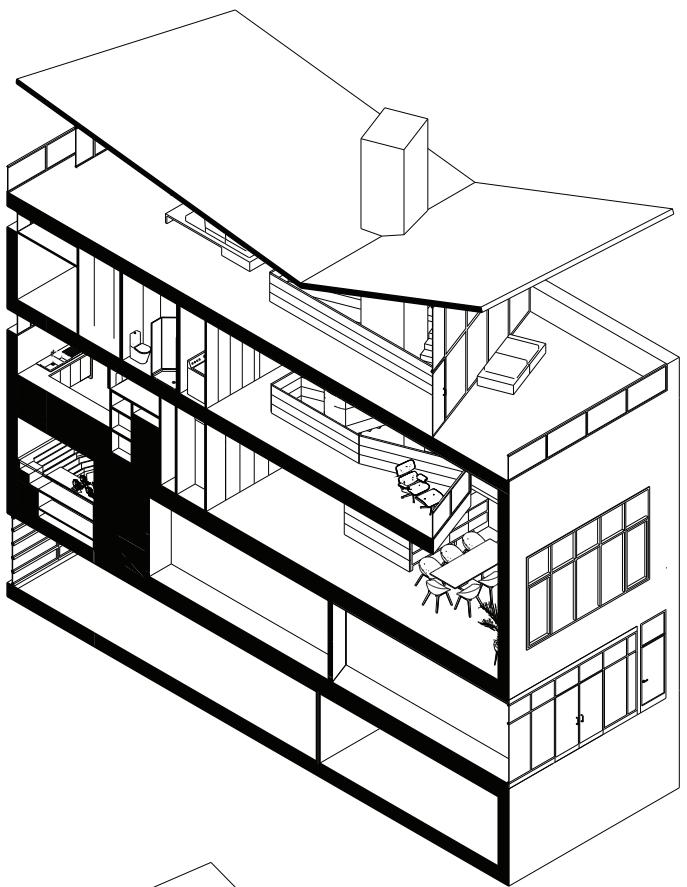
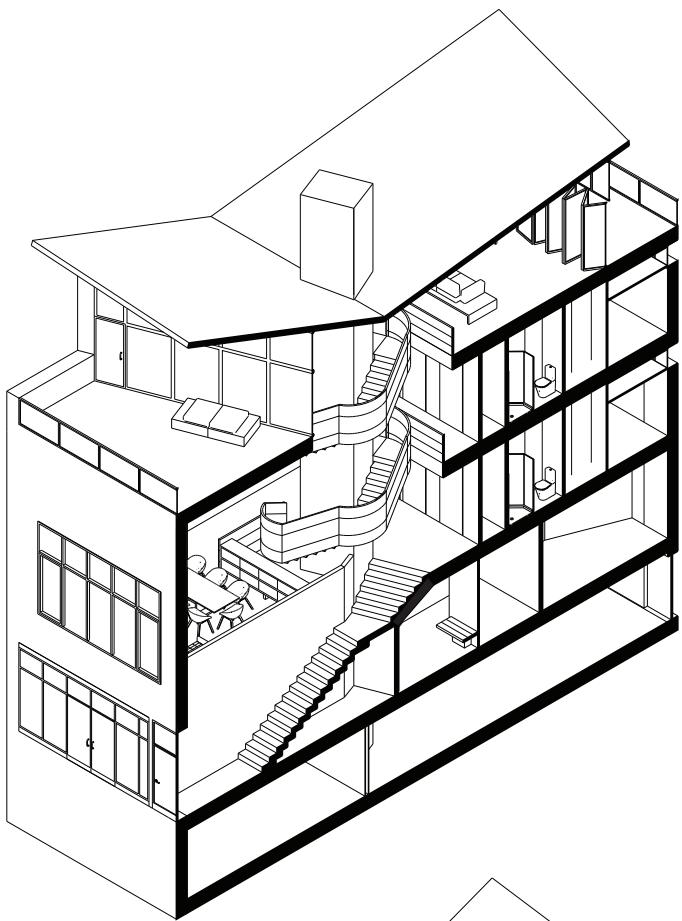


**Public**

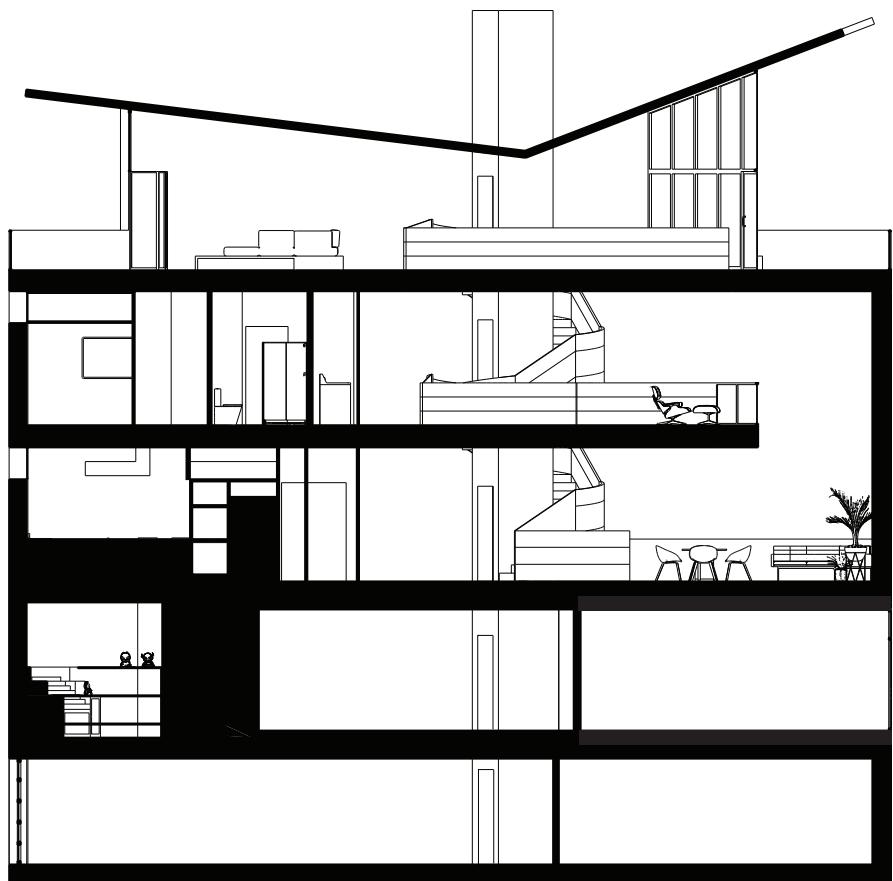
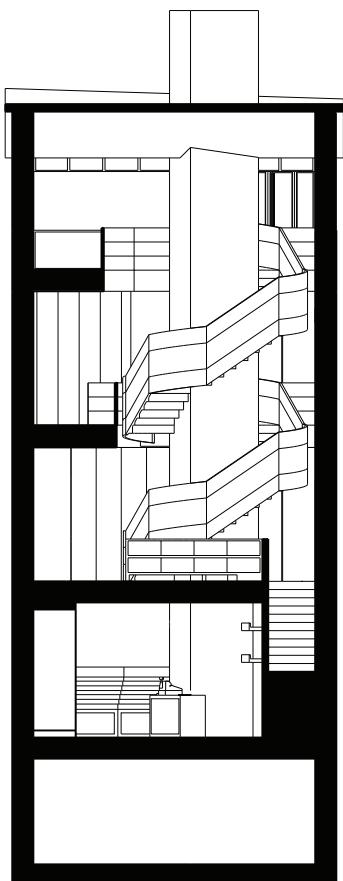
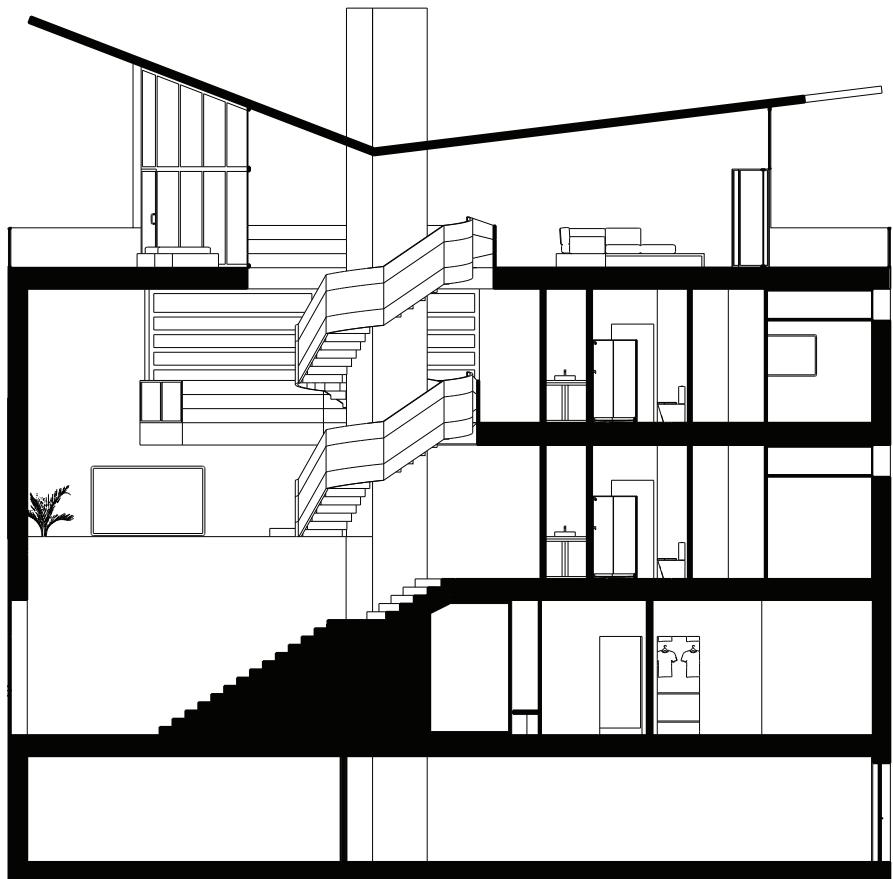
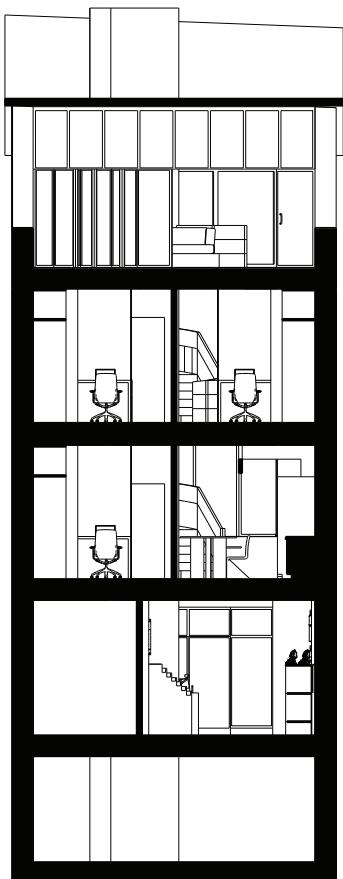


**Circulation**

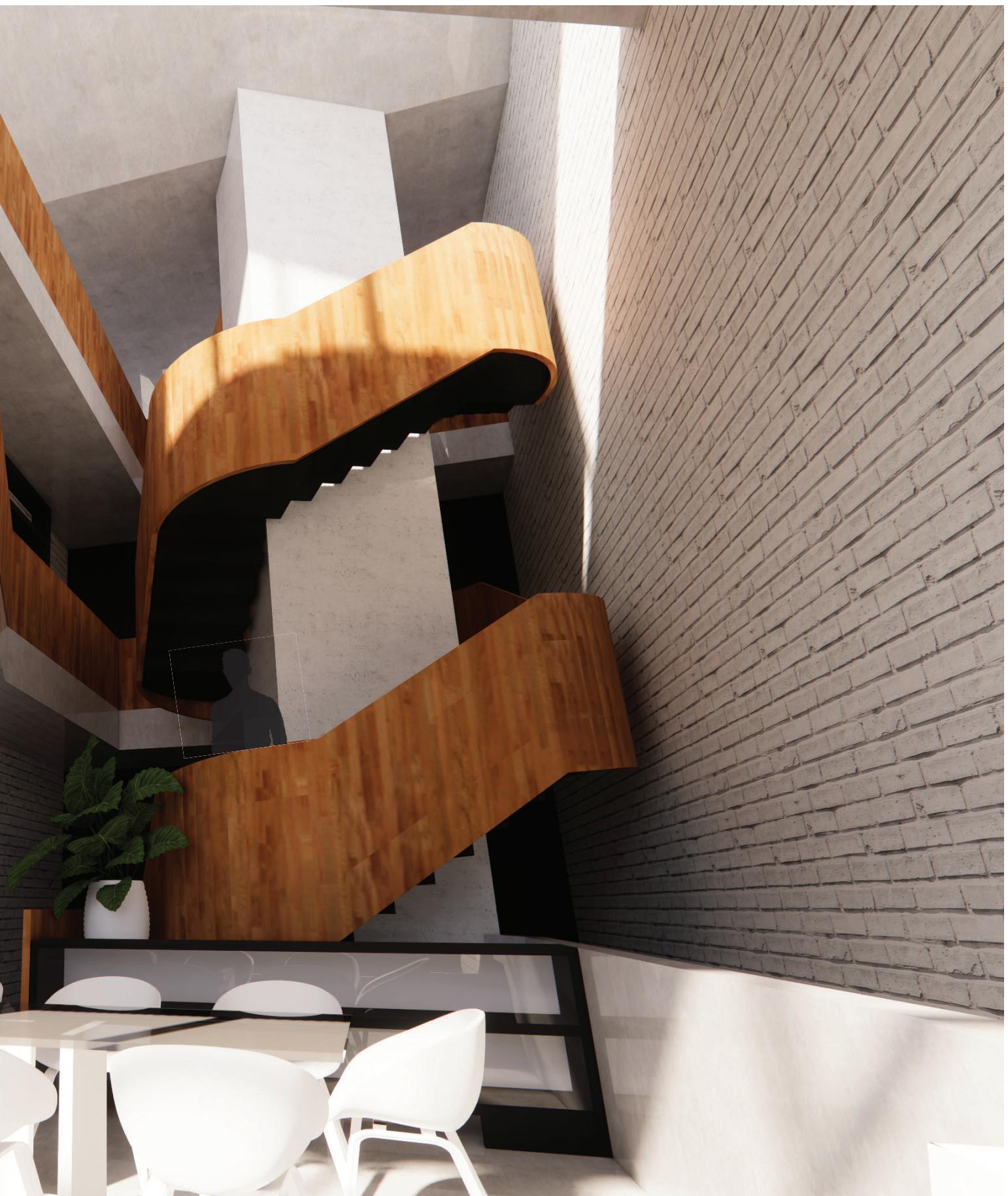
## ISOMETRIC SECTIONS



## SECTION ELEVATIONS







FORMAL LIVING ROOM



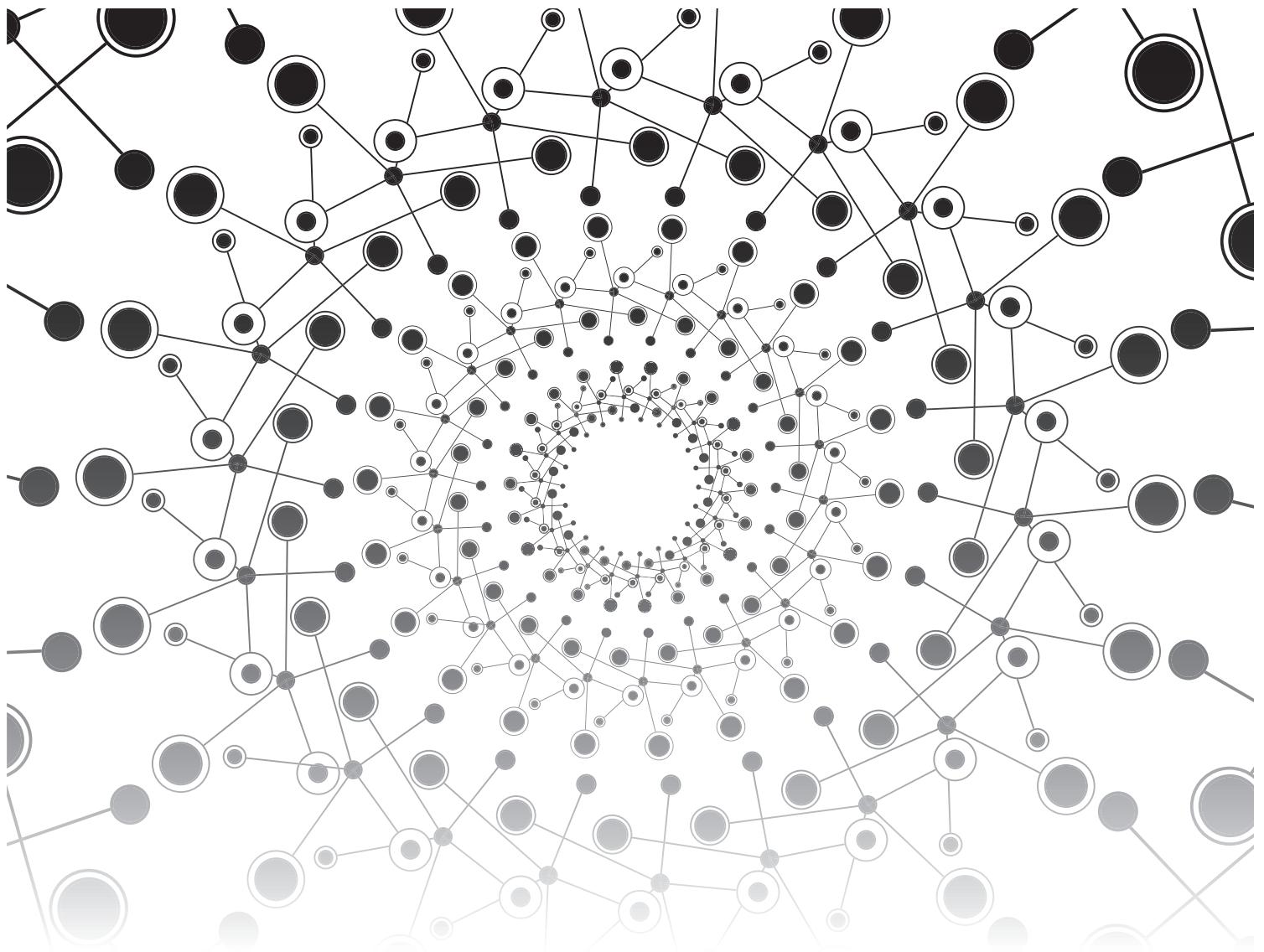
BEDROOM SUITE







RETAIL SPACE



# 05 GRAPHIC DESIGN

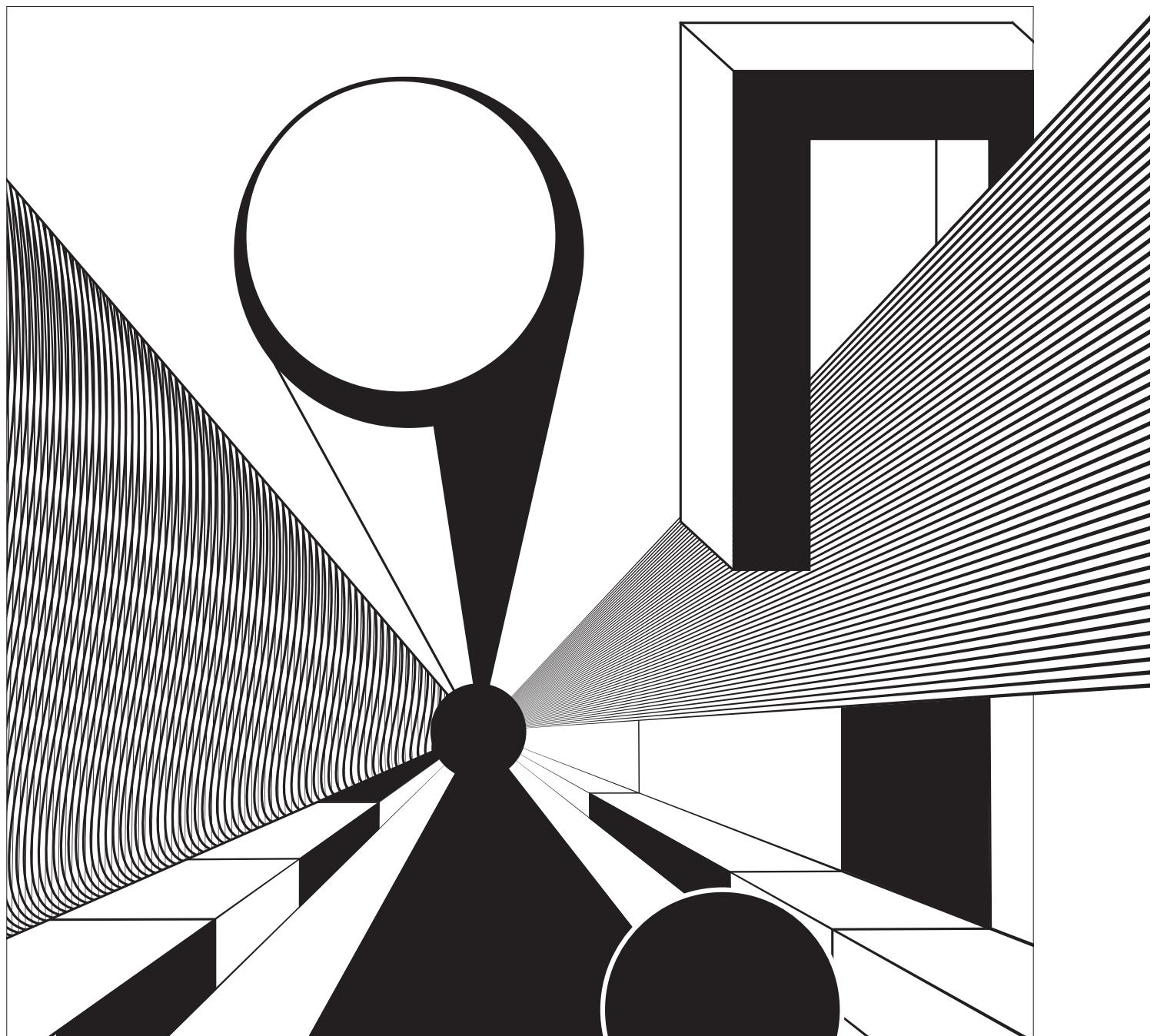
ADOB E ILLUSTRATOR

Sacramento, CA

Professor(s): Various

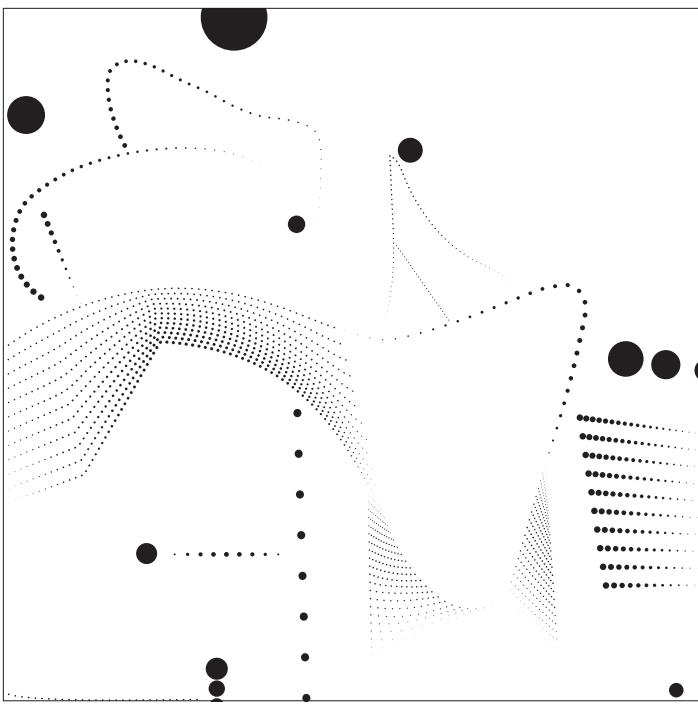
Fall 2020

As required by the CSUS College of Arts and Letters Interior Architecture program, students engage in several classes and subsequent mixes of media to gain competency for foundational design fundamentals and standards across photography and photoshop, graphic design, hands on hand modeling, post production editing and rendering, and visual presentation. The following is a compilation of standout graphic design works from aforementioned non-architecture classes that highlight abstraction as a means of creative interpolation

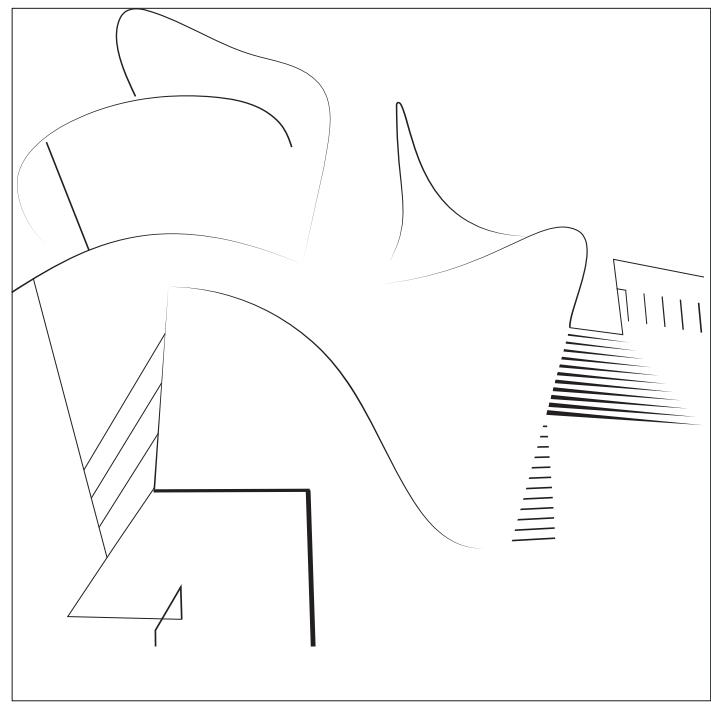


**Ode to Virgil** - For GPHD 25's final assignment, an employment of all the techniques learned over the course in the way of an abstracted piece of art, this iconic scene of Virgil throwing a Louis Vuitton kite down the runway of his very first Summer/ Spring 2019 collection show (pictured left) was abstracted, paying homage to Virgil and his philosophy as an artist of having his art transcend himself, ultimately leaving behind a legacy of ubiquity

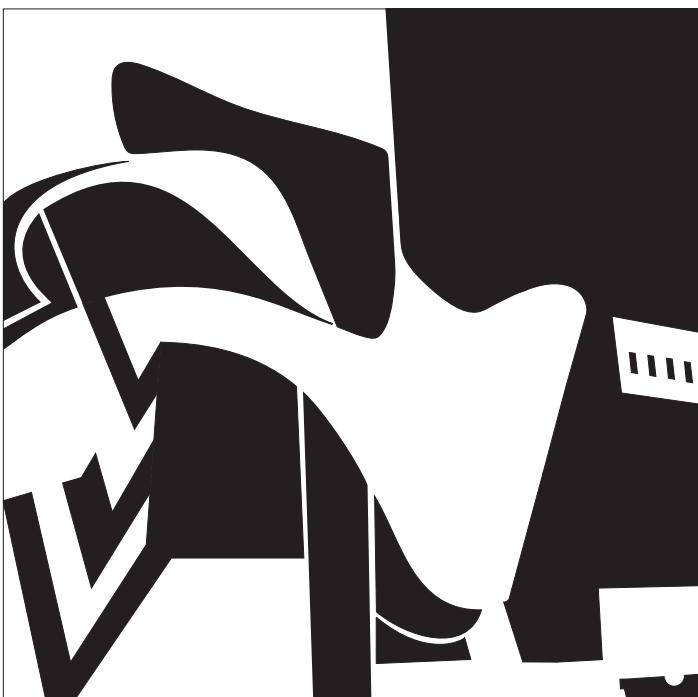
**(Image Courtesy of MVC Magazine)**



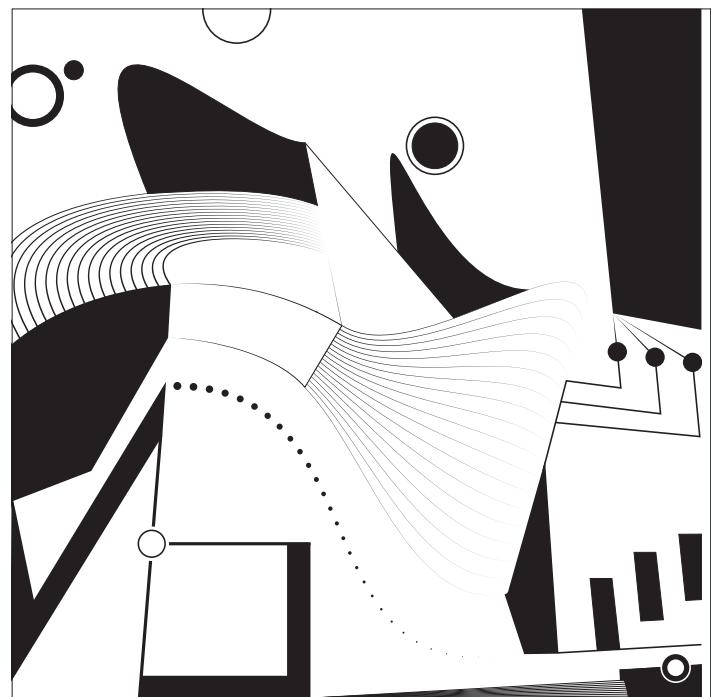
**Point**



**Line**



**Plane**

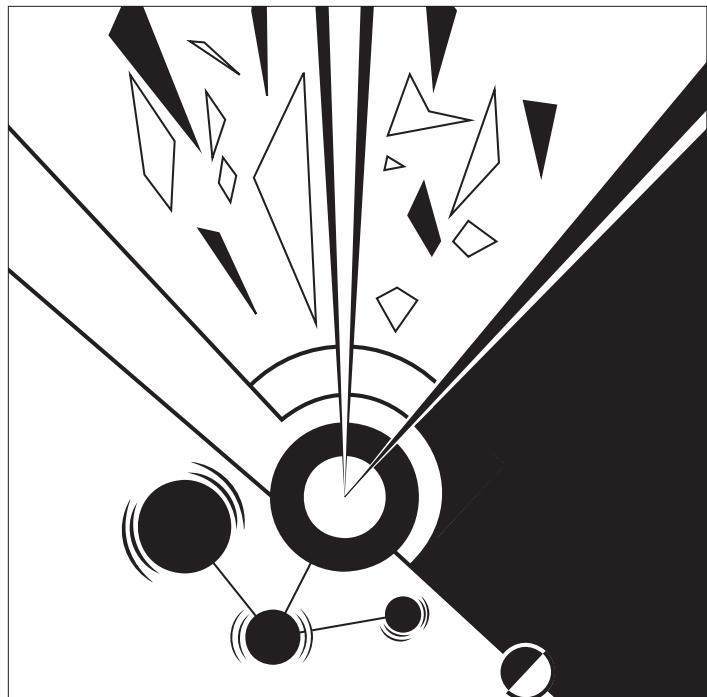


**Point | Line | Plane**

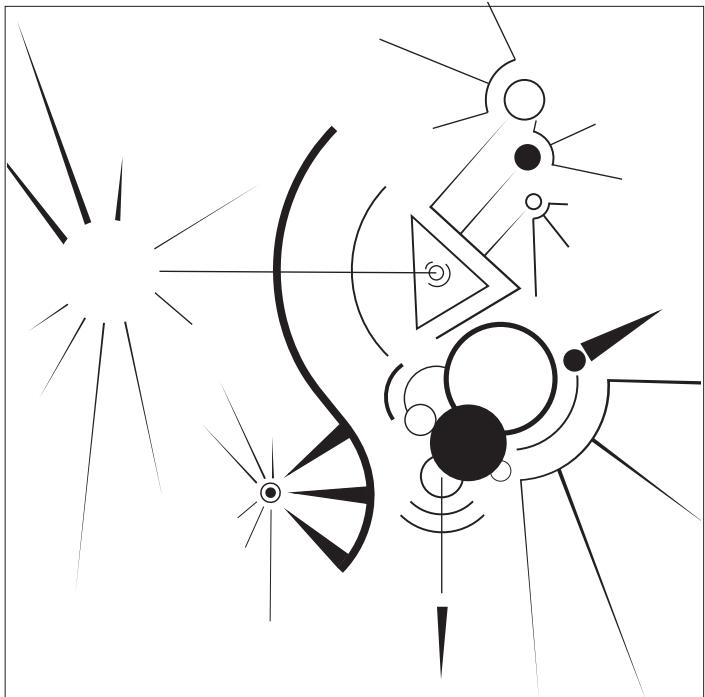


**Point. Line. Plane.** - Using various stroke, object manipulation techniques, and graphic foundational principles allow for a single source image (The Art Gallery of Alberta - pictured left) be abstracted and interpolated using three distinct compositions using a single concept and ultimately a cumulative compilation of all the concepts, and previously applied techniques

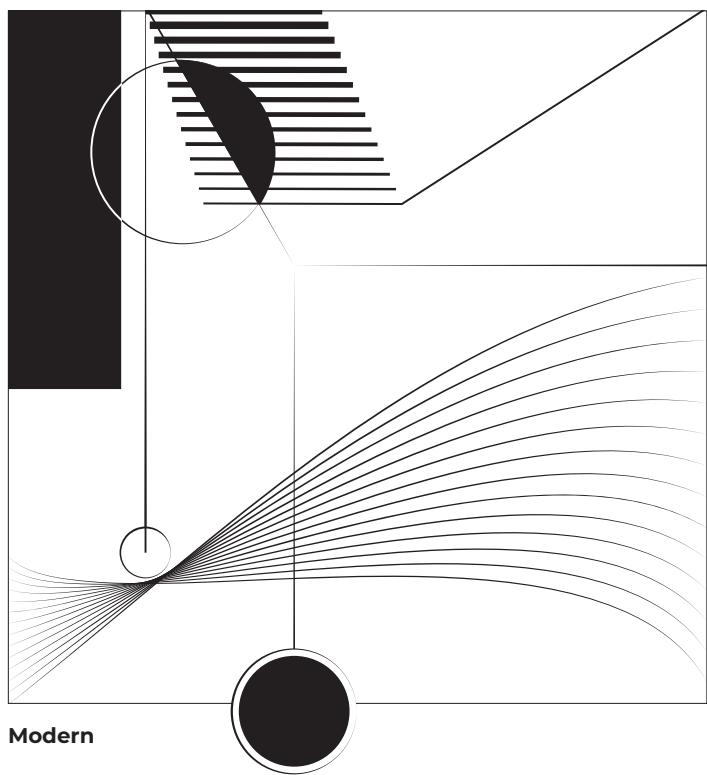
**(Image Courtesy of [youraga.ca](http://youraga.ca))**



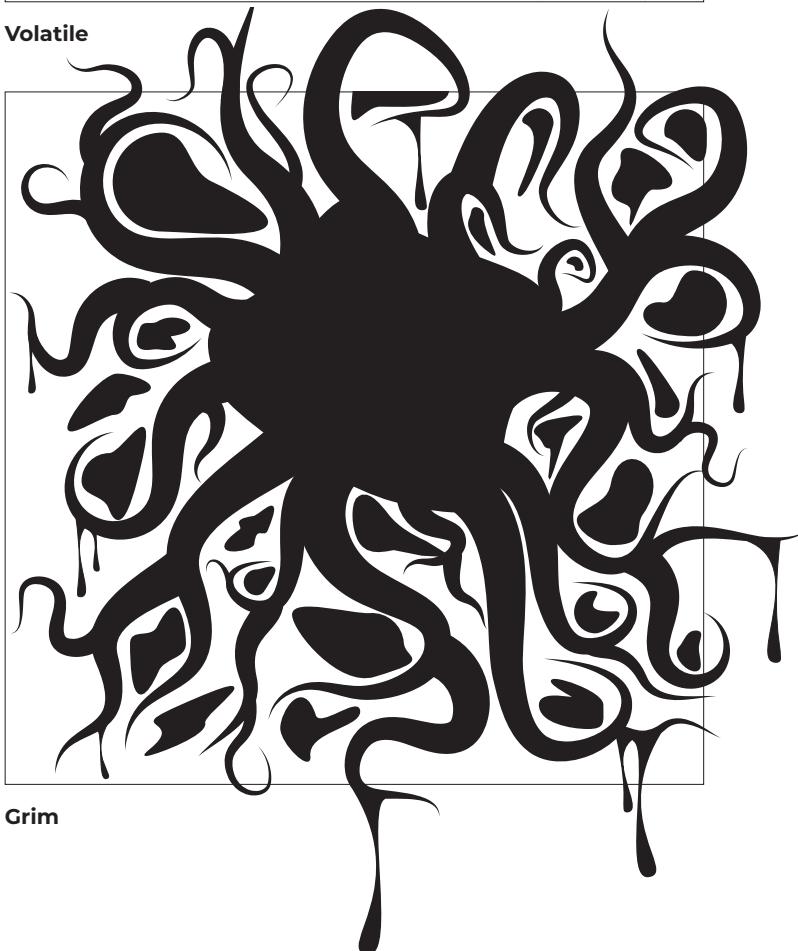
Heroic



Volatile



Modern



Grim

**Verbal Abstraction** - Pulling from a list of specifically generally directional but conveniently vague words, the breadth of tools, and graphic techniques learned throughout GPHD25 were employed to take said chosen vocabulary and convert written and verbal communication into visual communication by way of the connotation each word most closely objectively aligns



THANK  
YOU