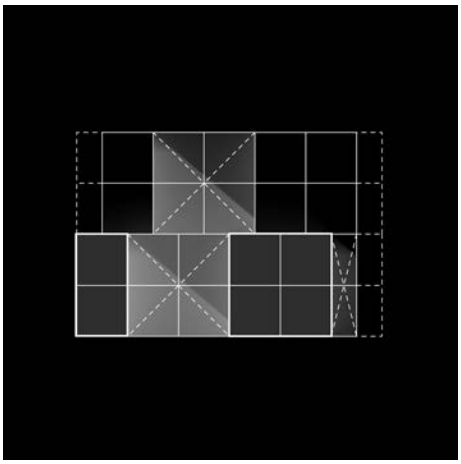
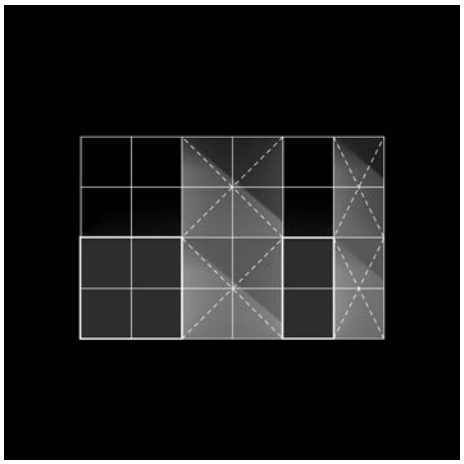
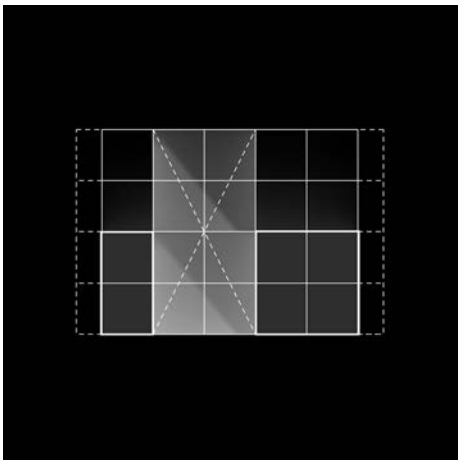
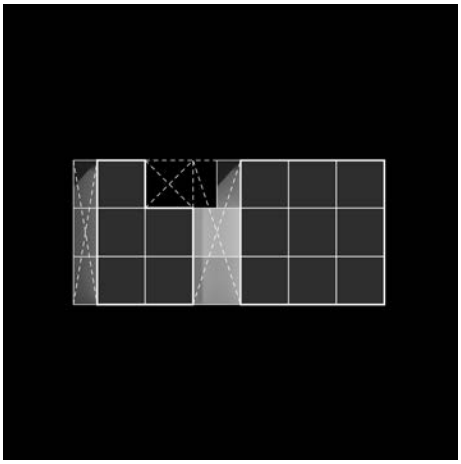
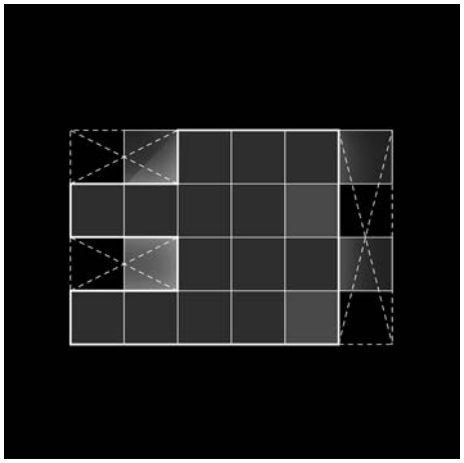
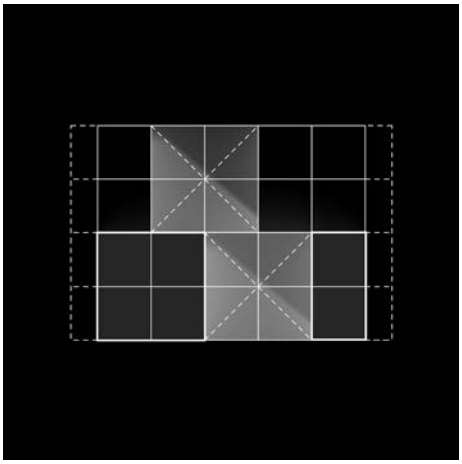
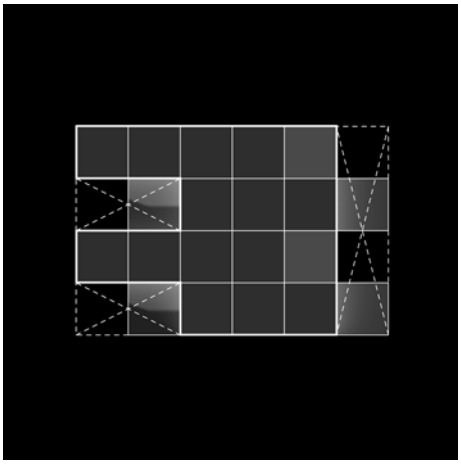
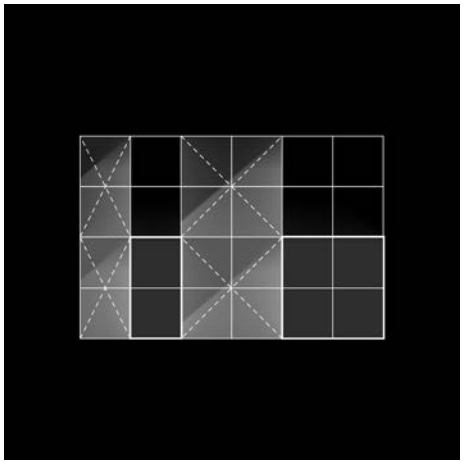
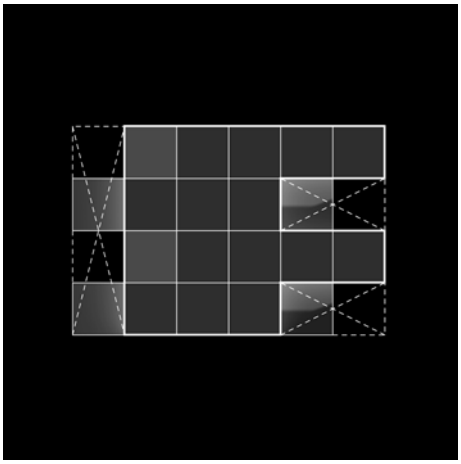
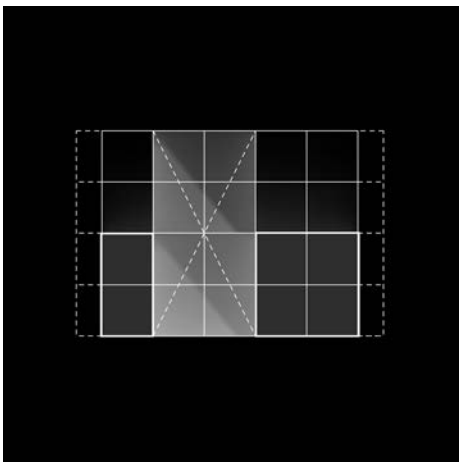











PORTFOLIO

ALAN WATTS

Contents

01 The Mikrowald

ARCH 4010: Fall 2025

02 Morven Outpost

ARCH 3020: Spring 2025

03 ERGO TERGO

ARCH 3010: Fall 2024

04 New Angle RVA

ARCH 2020: Spring 2024

05 Trailhead Pavilion

ARCH 5500: Fall 2026

06 Sketching in Vicenza

ARCH 5800/5801: Summer 2023

07 Appendix

Professional Projects with ENV & Quinn Evans



COVER: Sectional Diagrams from Mikrowald Housing

Alan Watts

Richmond, VA | 1-804-335-9373 | alan.wattsjr@comcast.net

EDUCATION

University of Virginia — Charlottesville, VA
Bachelor of Science in Architecture (Pre-Professional Concentration) — Expected May 2026
- Cumulative GPA: 3.94/4.0; Dean's List; Resident of the Lawn 2025-2026
- Minors in Global Sustainability, Social Entrepreneurship (Frank Batten School of Leadership and Public Policy), & Latin

EXPERIENCE IN ARCHITECTURE

Hart Howerton — New York City, NY
Winter Extern — January 2025
- Contributed to DD for a large-scale hospitality project via elevation studies and client presentation work
- Participated in project presentations, client meetings, and software introductions, including D5 rendering & Gemini

ENV — Richmond, VA
Summer Intern; Winter Extern — January 2023, May 2025 – August 2025
- Completed construction documents for corporate offices, pharmacies, clinics, and private tenant spaces in Revit and CAD
- Surveyed and drafted space plans for clients based on surveyed conditions for SD, compiled comprehensive DD packages
- Re-designed office exterior & landscape: created presentations on scope & design options, renders created in Rhino & TwinMotion

Studio Gang — Chicago, IL
Winter Extern — January 2025
- Contributed to design research studies and SD for public pedestrian overpass, helped with model assembly
- Developed 3D model, renders, design options, and pricing to explore office redesign

Quinn Evans — Richmond, VA, Baltimore, MD
Summer Intern (VA); Winter Extern (MD) — January 2024, June 2024 – August 2024
- Helped develop construction documents, contributed to site visits and client meetings (CD & CA) for new library and K-12 school
- Contributed to project interview prep, proposals, and massing models (Pre-Design, SD, & DD) for higher ed and public projects
- Researched and presented on AI software in architecture, contributed to firm marketing and development

ADDITIONAL WORK EXPERIENCE

UVA School of Architecture – Student Instructor Assistant (SIA) Positions — Charlottesville, VA
ARCH 1010: Lessons on the Lawn with Professor Peter Waldman — August 2025– December 2025
- Introducing students to design theory and abstract spatial concepts through writing and diagramming
- Hosting regular office hours and leading in-class exercises as well as a discussion section of students weekly

ARCH 2070: _mpathic Design with Professor Elgin Cleckley — January 2025 – May 2025
- Teaching students across disciplines empathy-based design practices, leading in-class exercises & weekly office hours

A-School Student Ambassador & Peer Mentor with Student Affairs — February 2023 – Present
- Promoting and representing the A-School to prospective students, alumni, and visitors through tours and communication
- Leading A-School orientation and a mentorship group for new students, emphasizing support, resources, and community

LEADERSHIP

School of Architecture Student Council — Charlottesville, VA
President — Sept 2022 – Present
- Elected Student Representative; Served as Vice President, Co-Chair of the Materials Committee, & Member of Outreach Committee
- Focused work on bridging the gap between students, staff, faculty, and administration, emphasizing the voice of the students to create a more accessible, affordable, and meaningful A-School experience

Virginia Society of Architecture & Planning (VSAP) — Charlottesville, VA
President and Co-Founder — Sept 2022 – April 2025
- Served as Founding Executive Member of Architecture and Design-based Fraternity at UVA focused on community-building, philanthropy, professional and academic development, mentorship, & relationships in the School of Architecture

HONORS, SKILLS, ACTIVITIES, & INTERESTS

Skills: Revit; AutoCAD; Rhino (V-Ray, Grasshopper); Bluebeam, Enscape; Adobe; Affinity; AI Rendering Softwares (Gemini, etc.)
- Hand-Drawing through the UVA School of Architecture Vicenza Program and European Modern Architecture in Madrid

Honors: Eagle Scout; Karsh Institute of Democracy Student Dialogue Fellow 2024-2025; Anne Marye Owen Prize in Latin, Jan. 2023
- UVA School of Architecture Bobby Newman Endowed Scholar, Class of 2026
- Class of 2026 Fellow: The Meriwether Lewis Institute for Citizen Leadership at UVA

Activities: American Institute for Architecture Students; UVA Honor Investigator/Counsel; UVA Outdoors Club; Phi Delta Theta
Interests: Languages (Latin, Conversational Spanish); Survivor (Reality Competition); UVA Basketball Fan (Jumbotron)

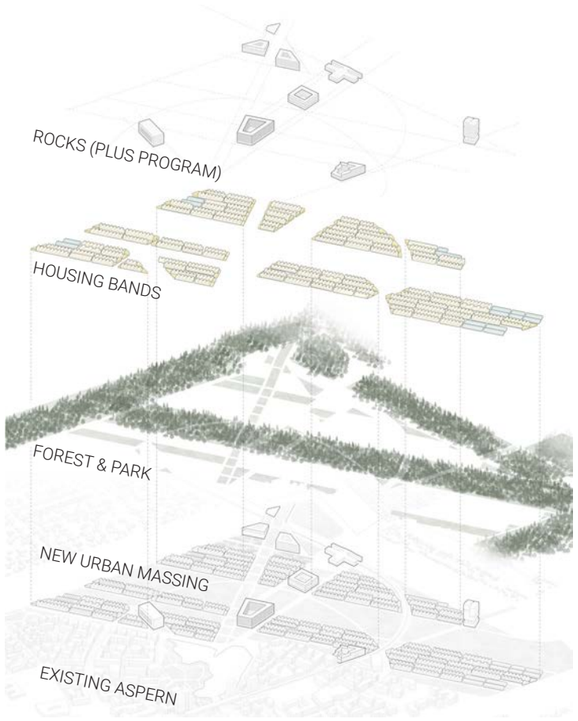
01

The Mikrowald

Professors: Ila Berman & Mona El-Khafif
Fall 2025 (Partner Studio with Isabella Koch)

This **urban design & architecture project** seeks to complete the development of a new, dense urban center in the outskirts of the city of Vienna, Austria. The Mikrowald Masterplan organizes housing through a clear system of **high density mid-rise courtyard houses, reducing hardscape and semi private areas in favor of wild open spaces (the Wald)** that is shared among humans and non-humans to build a strong open space network linking to the Lobau. The design is guided by the generation of a new forest belt to connect to existing north-south forest belts on either side of the city, promoting biodiversity and allowing more space to be given back to nature.

Bands of housing are required to have a minimum of **30% void space** and follow a dense, patio typology that consolidates private space and allows for more shared public space through the creation of **active park bands**, which hold markets, recreation, and more. Site-specific and contextual relationships inform both the direction of development and the **strategic cuts where landscape elements are inserted**. These cuts respond to existing conditions, including the central man-made lake in Aspern, forest belt connections, the existing train station, a key road toward Heidjochl, and the incoming rail line linking the site to the active urban core. While Aspern's existing ring road does not determine the new urban grain, it remains as a secondary circulation loop, allowing movement around a dense and ecologically integrated city center.



Exploded Axon: Urban Layers of Public Space, Forest, Housing, & Inserted "Rocks"
03



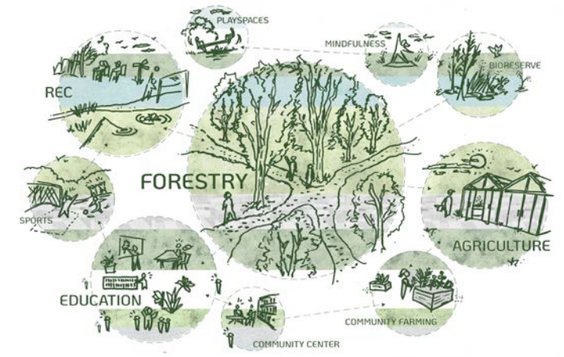
Alley Perspective: Type 1A & 1B Housing Band leading to Nature Center
04

01 THE MIKROWALD

URBAN MASTERPLAN

TERRITORIAL STRATEGY

The overall urban strategy is driven by the creation of a forest belt to support nature-centered activities as well as an understanding of the urban grain from site-specific relationships and conditions.



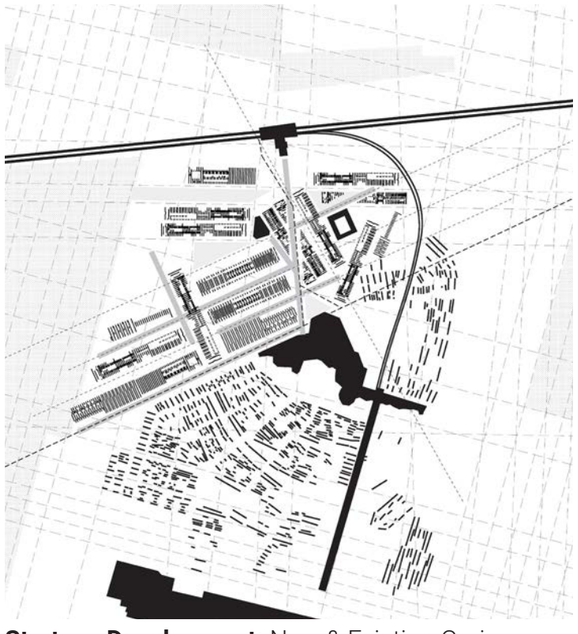
Plus Program Diagram: Engagement with Nature



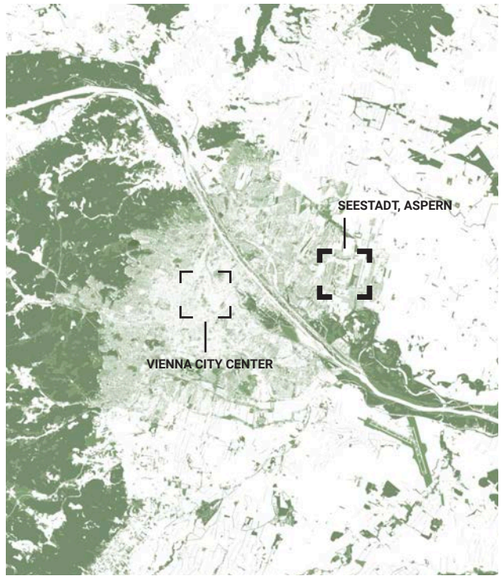
PRECEDENT STRATEGY DIAGRAM



PROCESS MASSING DIAGRAM



Strategy Development: New & Existing Grain

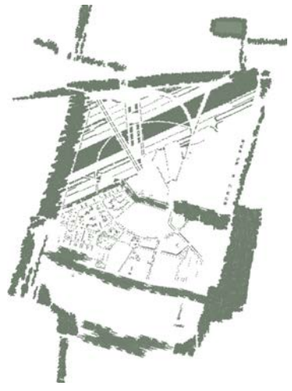


REGIONAL MAP: VIENNA'S TREE CANOPY

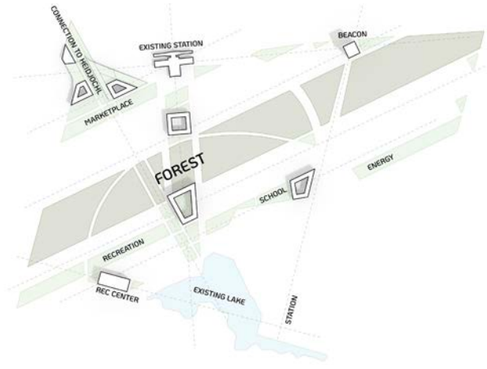


HISTORIC MAPPING

CURRENT MAPPING



CANOPY PROPOSAL



PUBLIC SPACE & PARKS DIAGRAM

Green Matrix: Proposal of Forest Belts



The Mikrowald Masterplan: Key Urban Strategy

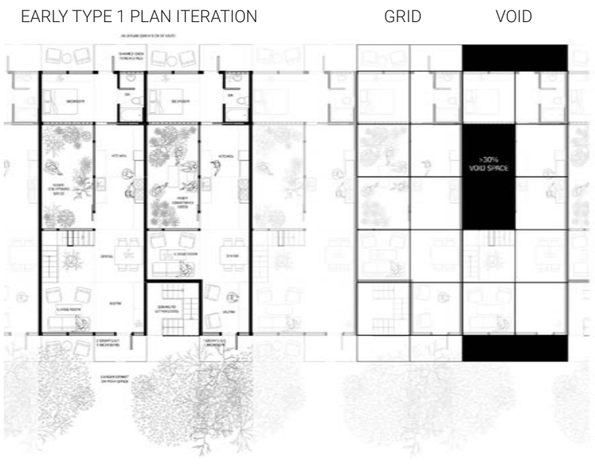
01 THE MIKROWALD

HOUSING UNIT

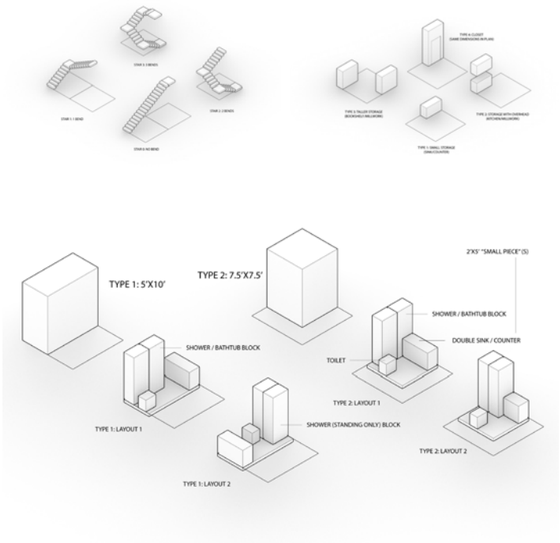
ARCHITECTURAL STRATEGY

Bands of housing are characterized by alternating 2 and 4 story massing and breaking up the grain of the band with void space--internal courtyards and light wells. See full matrix continued page 9.

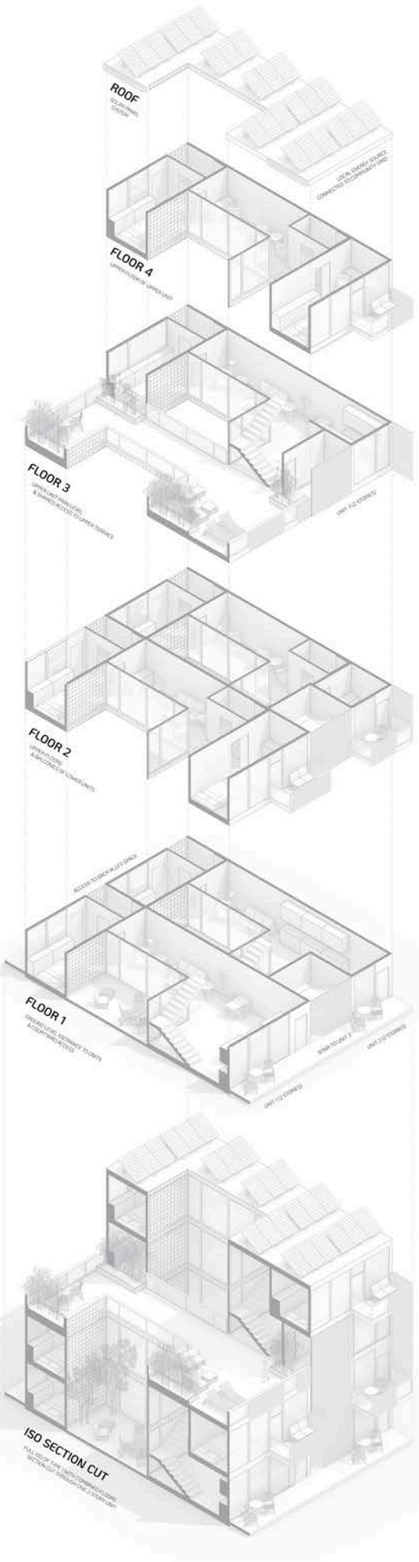
Exploded Axon: Type 1A Housing (Right)



Grid & Void Space: Minimum 30% Void Requirement



Kit of Parts: Modular Pieces to Populate Massing

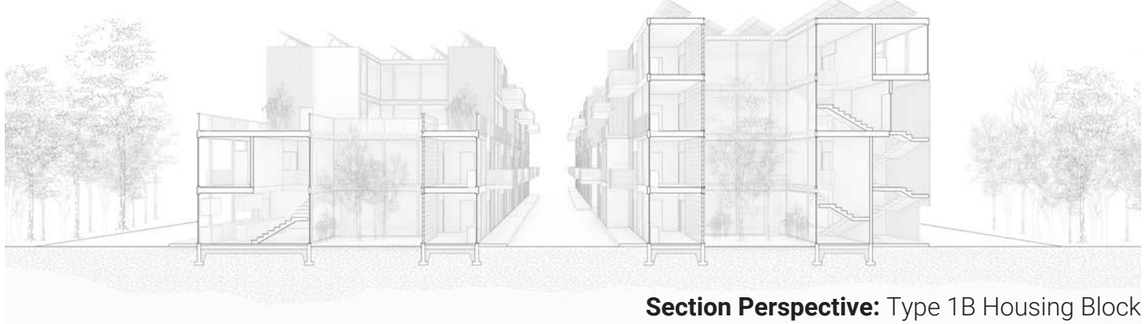




Isometric Housing in Context: Types 1A, 1C, 1D, & 3B



Fish Eye Plans: Floors 1 to 4, Housing Type 1A



Section Perspective: Type 1B Housing Block

01 THE MIKROWALD

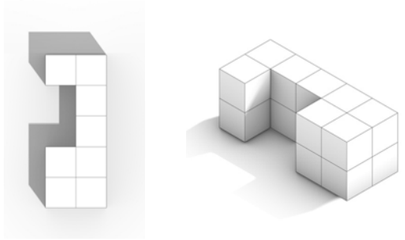
HOUSING STRATEGY

ARCHITECTURAL MATRIX

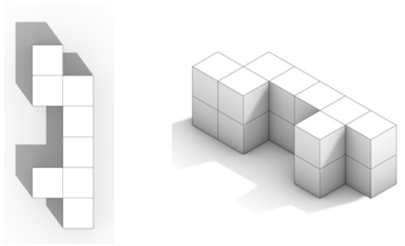
Matrix introduces four potential housing types with additional arrangement options for each type. Arrangements are shown in plan, isometric, and section (black). Massing is populated via a modular kit of parts.

VOID IN PLAN

Type 1

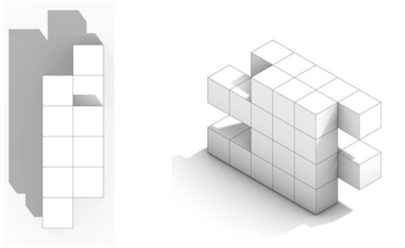


Type 2

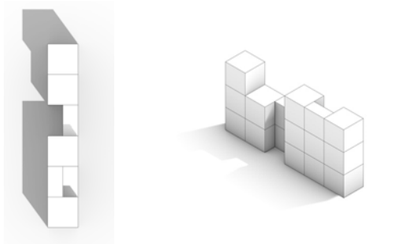


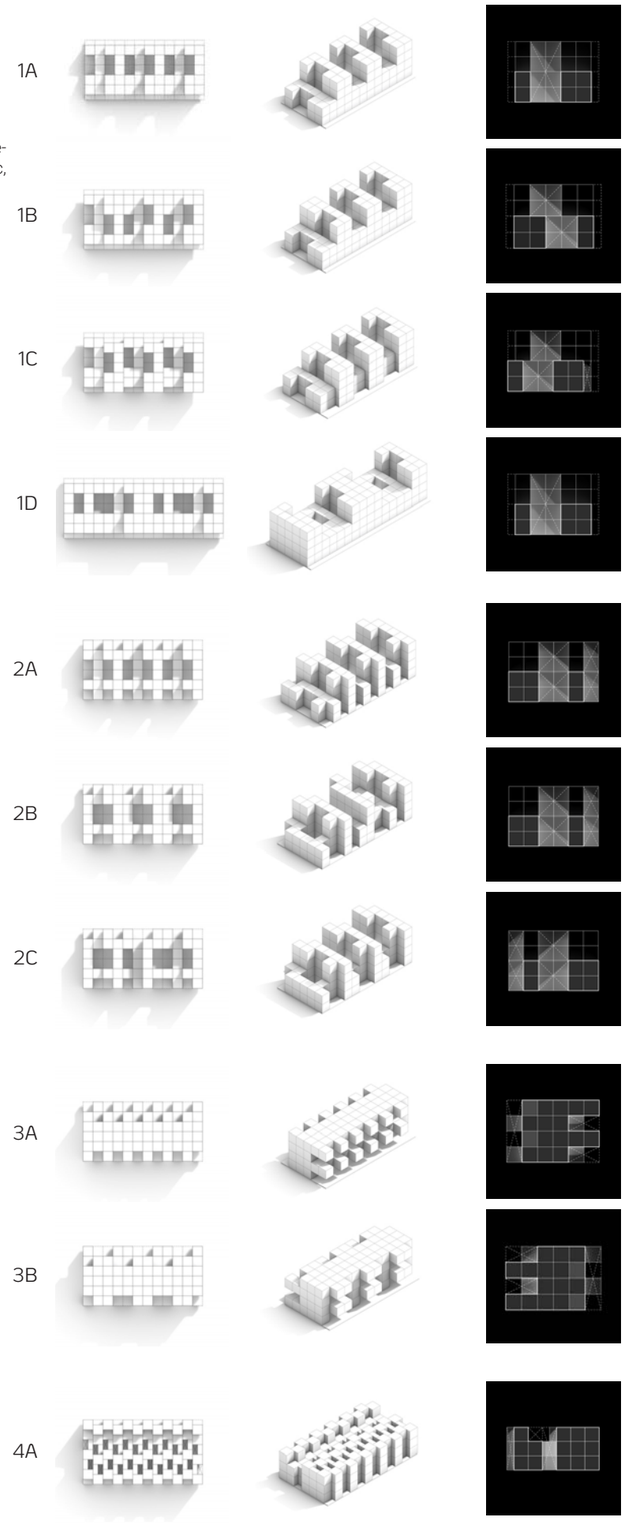
VOID IN SECTION

Type 3



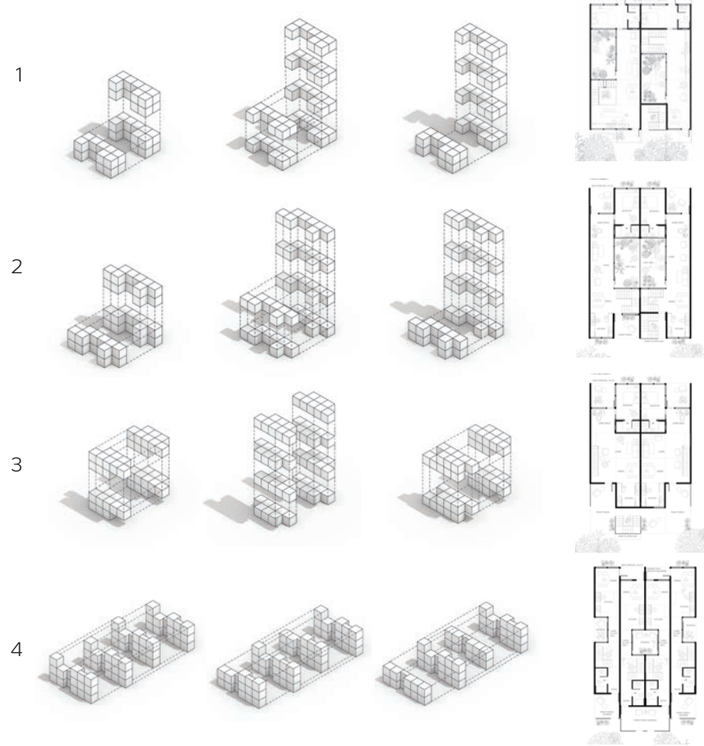
Type 4



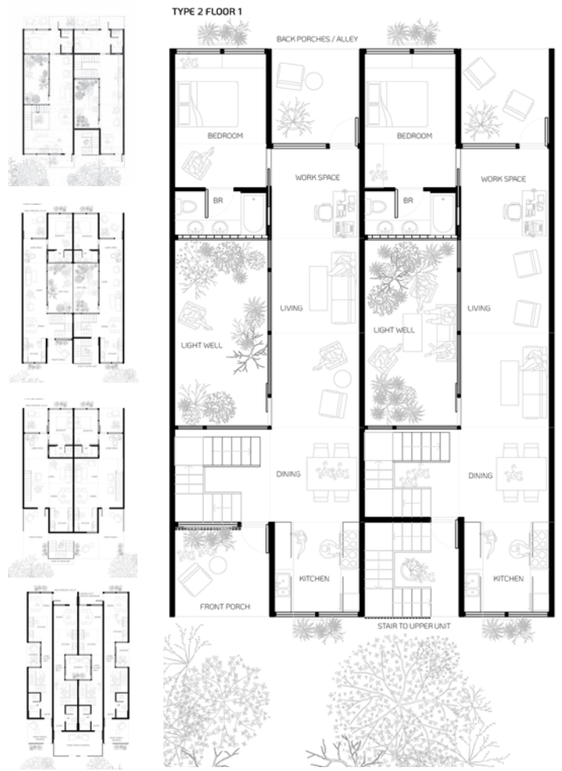




Interior Perspective: First Floor, Type 1C



Unit Arrangement: Options by Type



First Floor Plans: Sample Arrangements, High Fidelity

01 THE MIKROWALD

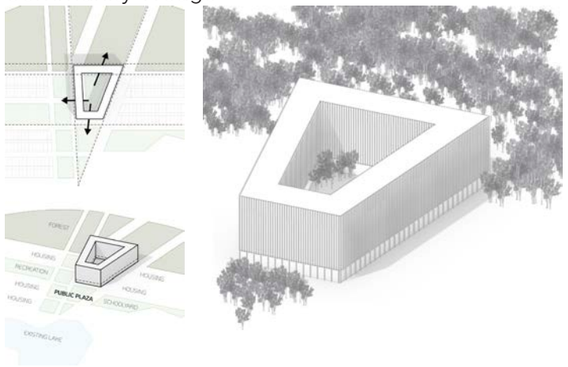
ROCK MATRIX

PLUS PROGRAM STRATEGY

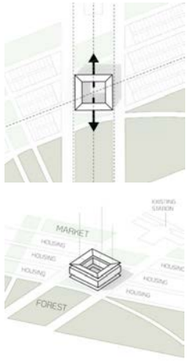
These inserted landscape elements, or "rocks," break up the grain of the bands of housing and contribute large-scale public space. The design reflects that of the typical Viennese courtyard typology.

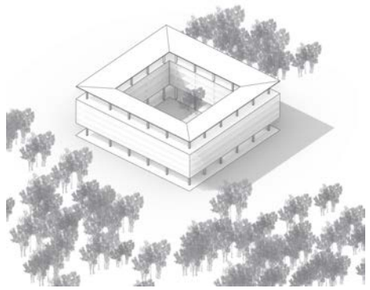


Community Wedge

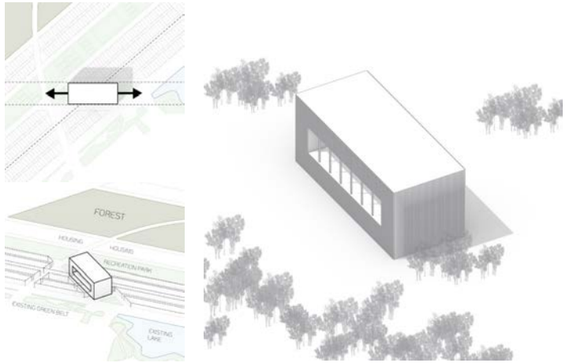


Nature Center

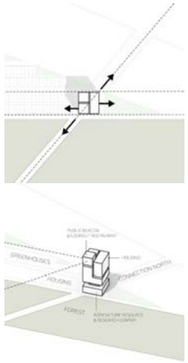


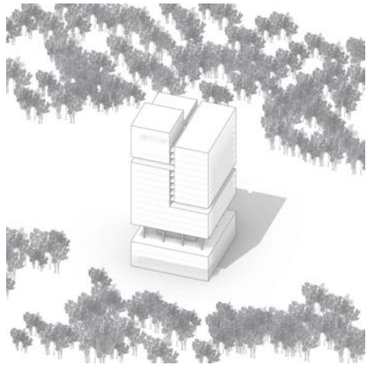


Recreation Center

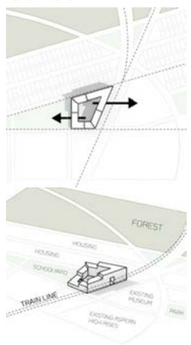


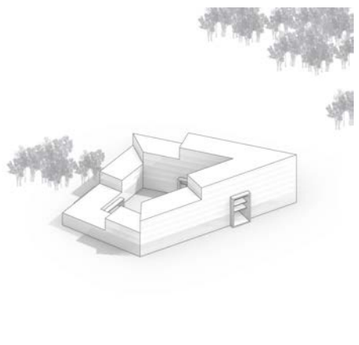
Beacon



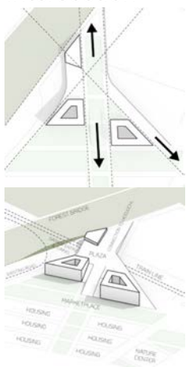


School





Intersection


FOREST SPADE
HOUSING
HOUSING
HOUSING
HOUSING
HOUSING

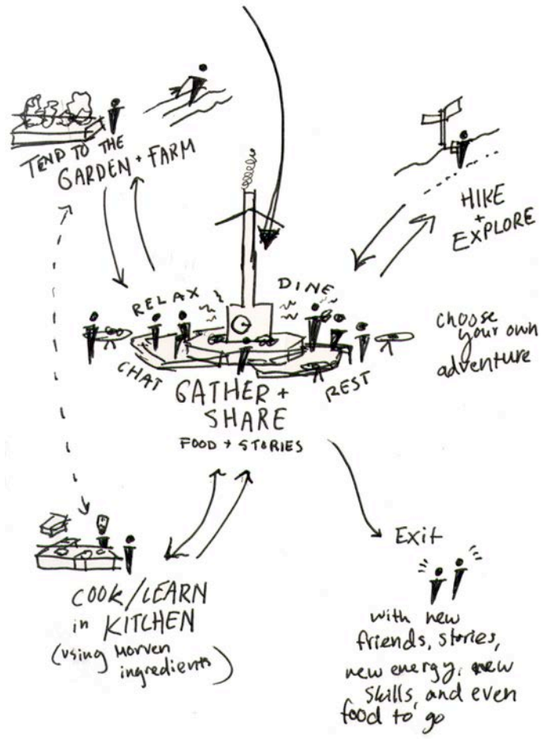
02

Morven Outpost

Professor: Cam Fullmer
Spring 2025

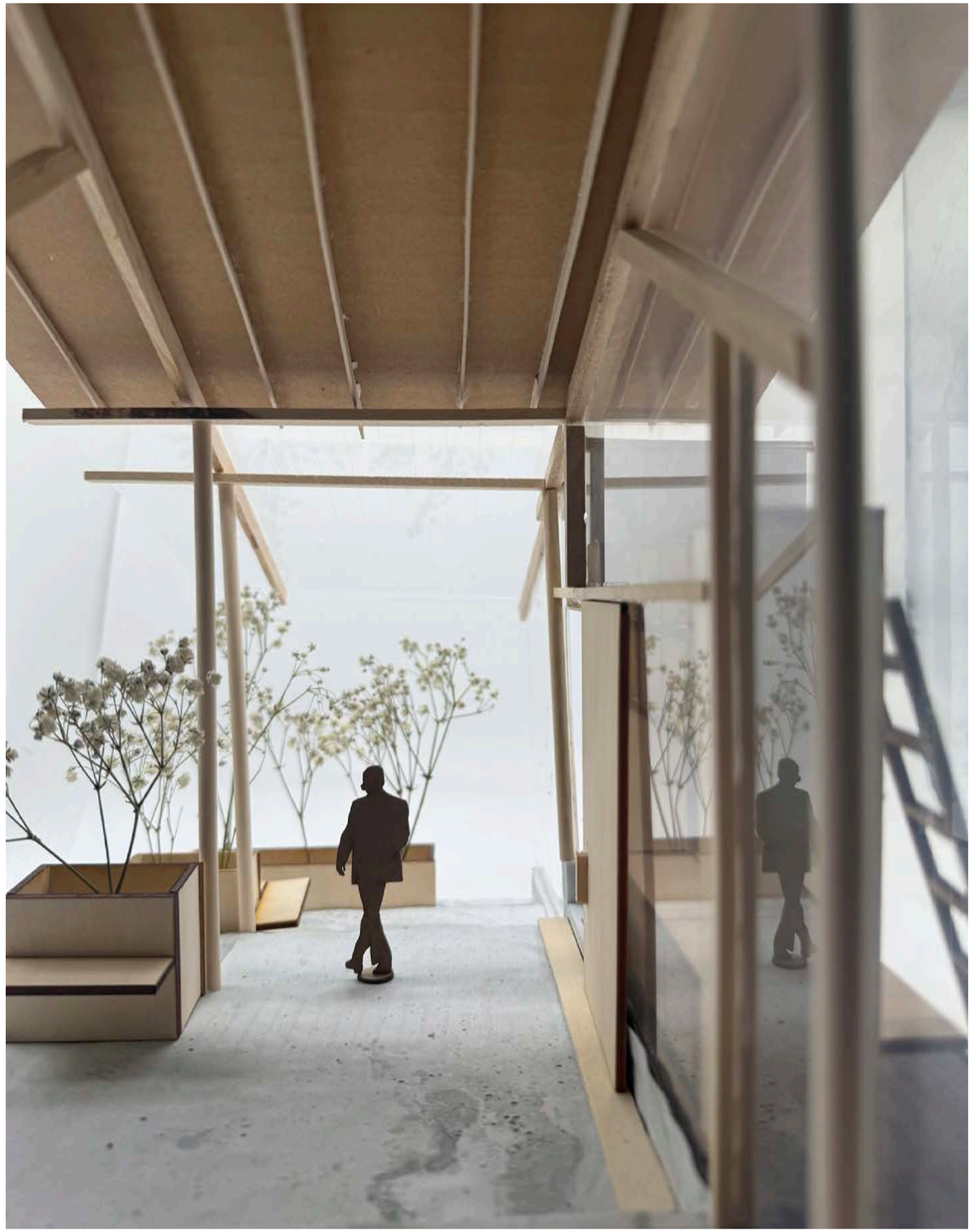
The Morven Outpost is an **adaptive reuse** project proposal that seeks to repurpose **the Black Barn, an old hay barn, at UVA's Morven Sustainability Lab** as a hub to all the many experiences that happen in the Northwest sector of the 3000+ acre property and rich cultural landscape. The design seeks to maintain the bones of the original hay barn; it preserves the original structure and roofline, as well as elements of the siding. To accomodate the people and activities this barn will now facilitate, from **cooking, learning, resting, dining, and building relationships**, the dirt ground is replaced by a new fluctuating floor system that follows change in program and experience. A third system of light wooden elements is integrated into the structural system of the barn, dictating seating, entrances, and human-scale architecture, to mediate the other two systems of roof and changing floor.

To extend the primary communal gathering and dining space of the outpost, a winter garden extends down the hill along a new northeast axis perpendicular to the northwest axis of the existing barn. The winter garden sinks down into the hill to follow the grade, accomodated by the changing floor system and a series of accessible ramps to navigate the hillside. The primary **gathering space, rooted by a sunken hearth** in the center of the barn, becomes a three-season space. During the summertime, the walls are slide open from either end of the building to allow for a gentle summer breeze to be funneled through the space along the northwest axis to provide **passive conditioning** during hot Virginia summers rather than using energy-intensive air conditioning systems.

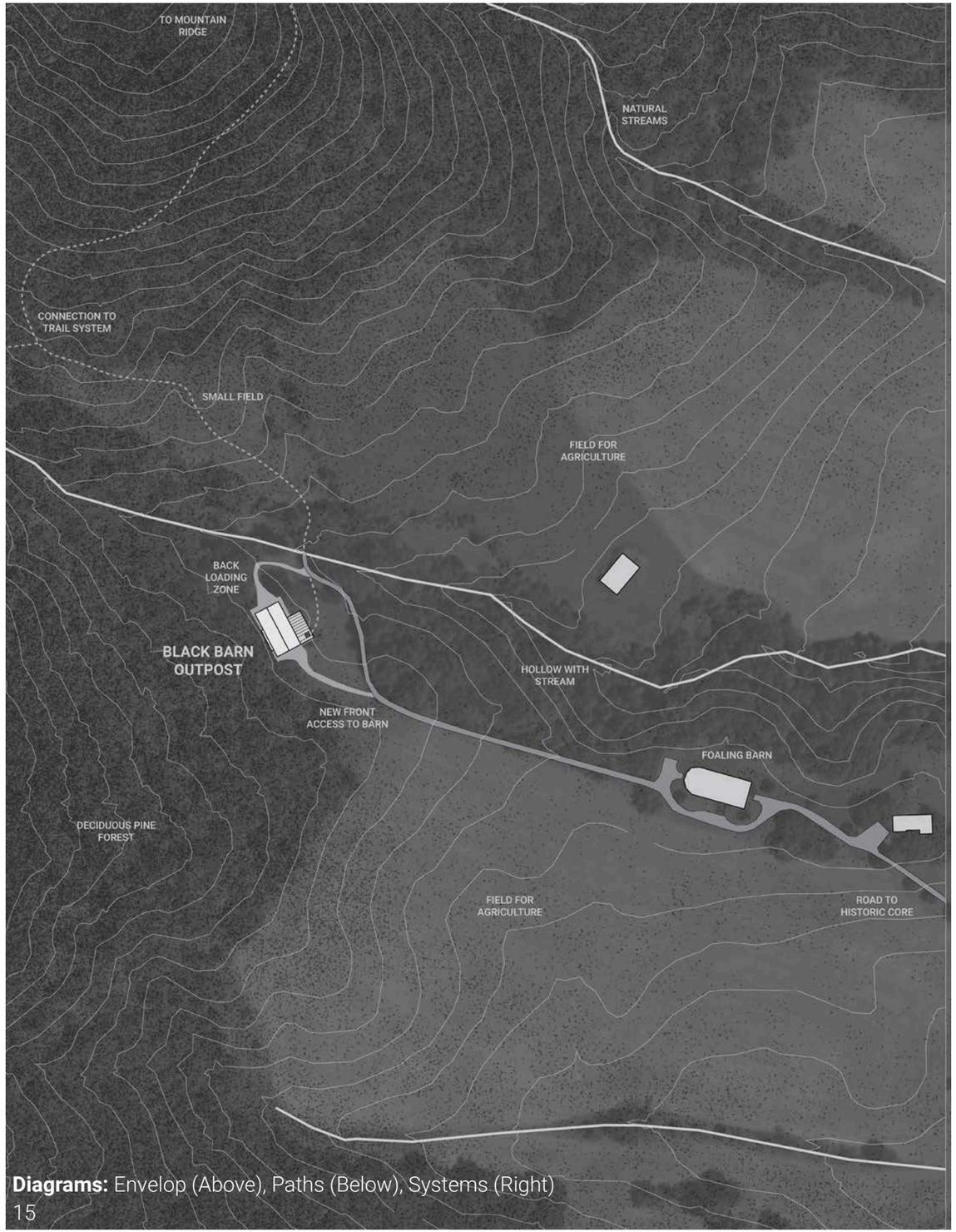




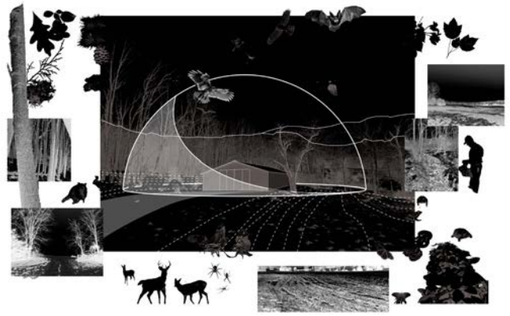
Project Render: Sunken Hearth & Dining Space



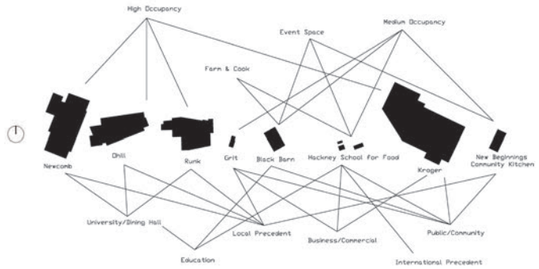
Daylighting & Detail Model Photo: 3-Season Space



Diagrams: Envelop (Above), Paths (Below), Systems (Right)



SITE ECOLOGY DIAGRAM



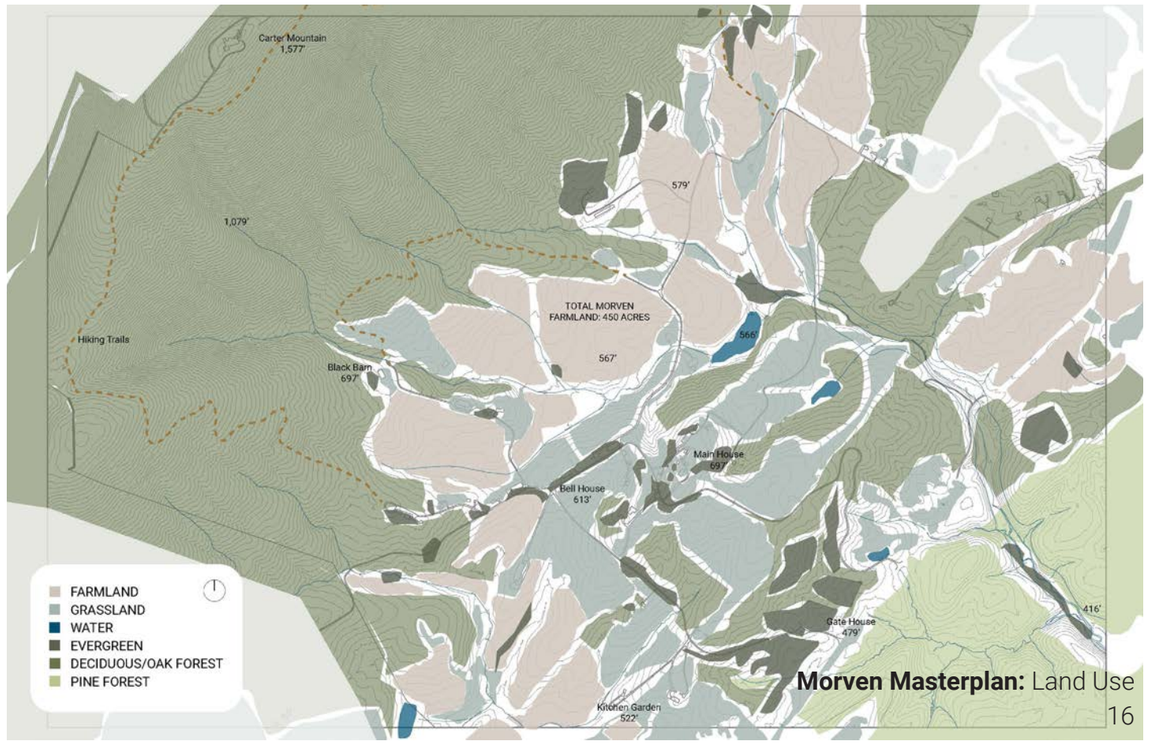
SCALE COMPARISON DIAGRAM



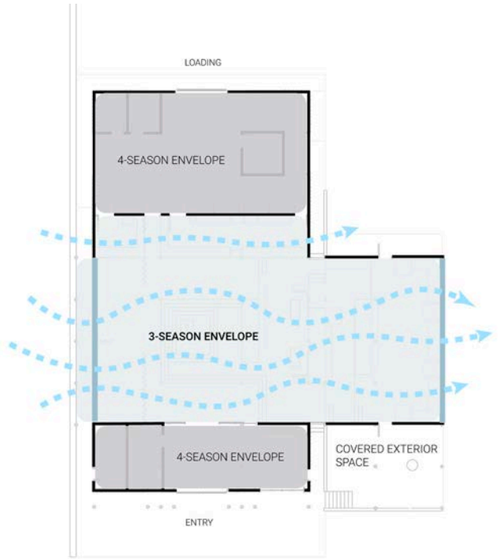




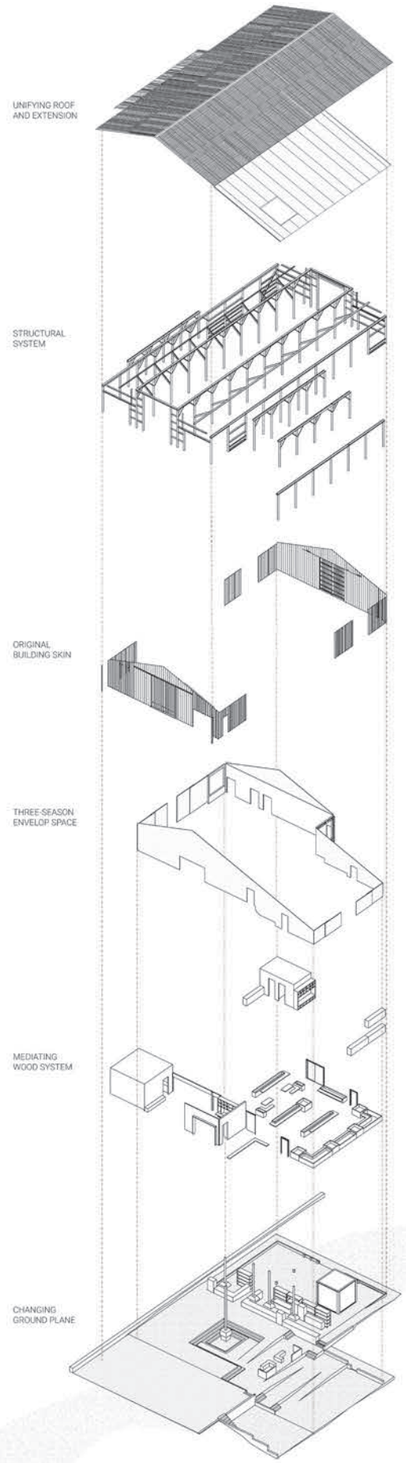
Site Photos & Analysis: Existing Black Barn



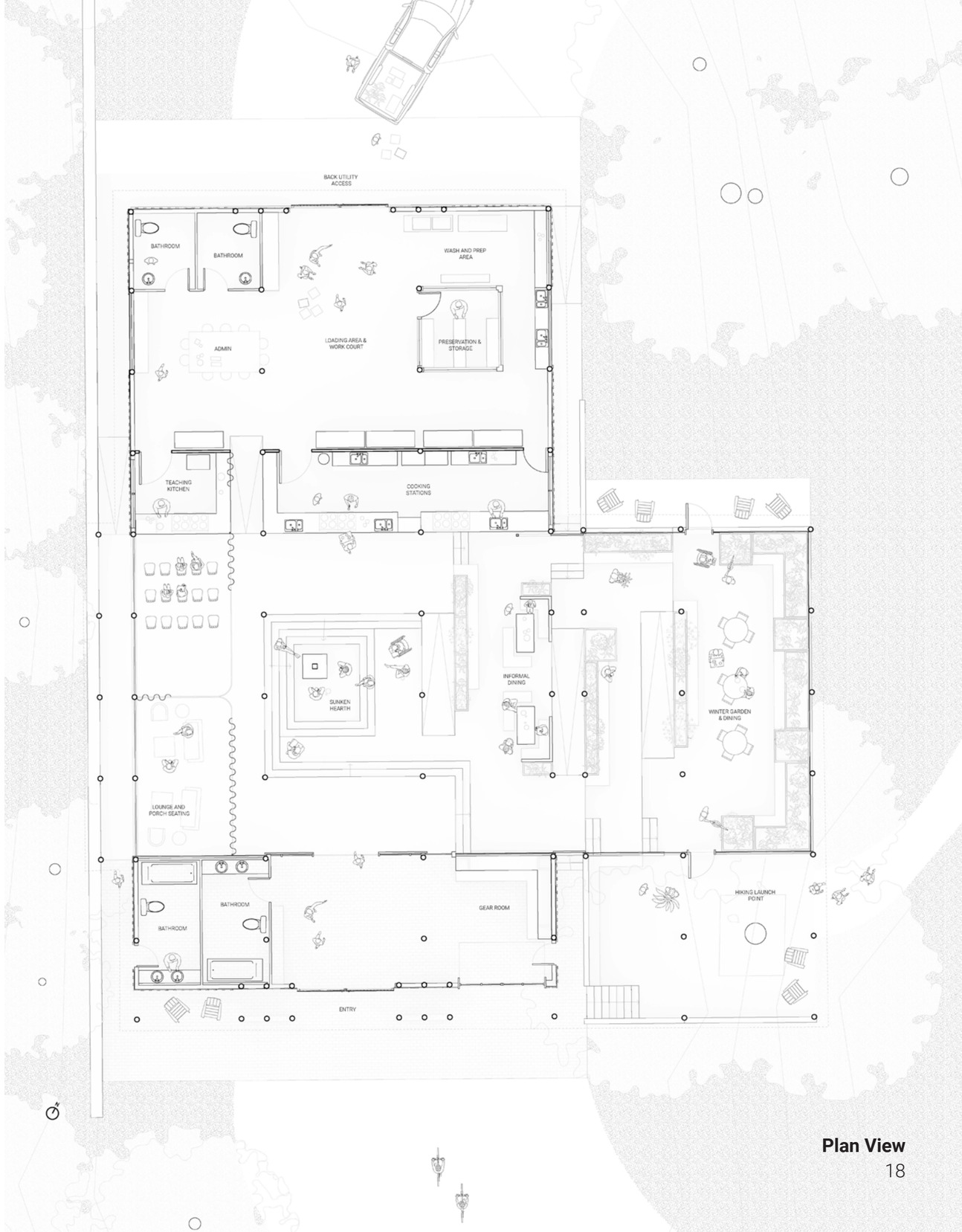
Morven Masterplan: Land Use



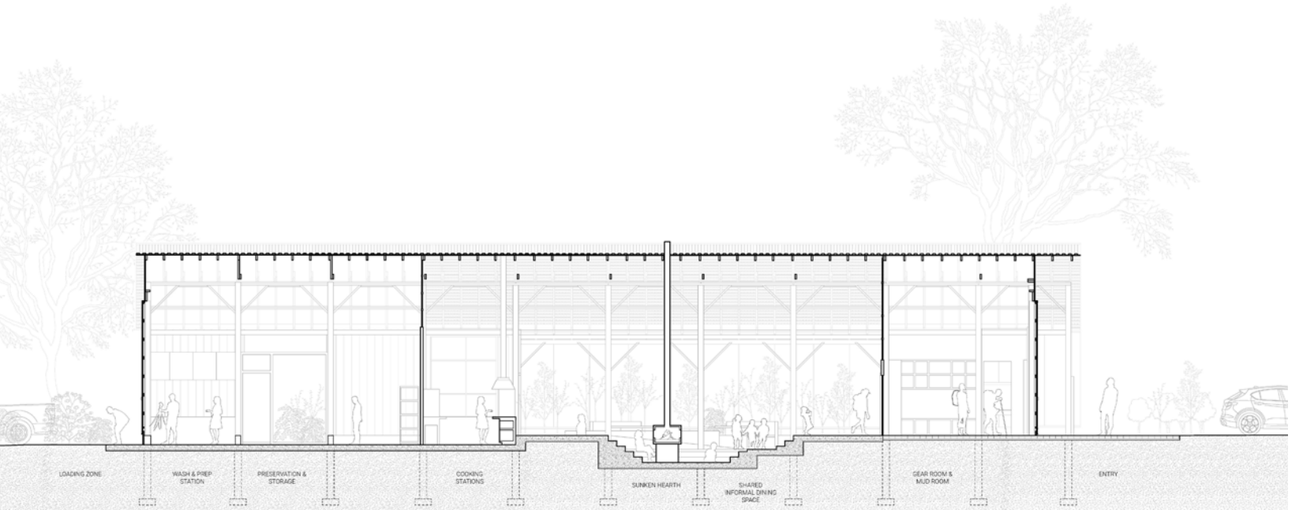


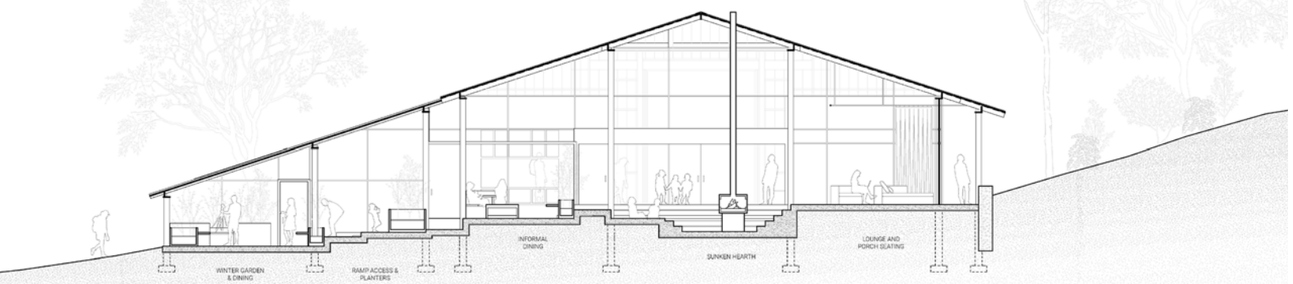


Diagrams: Envelop (Above), Paths (Below), Systems (Right)



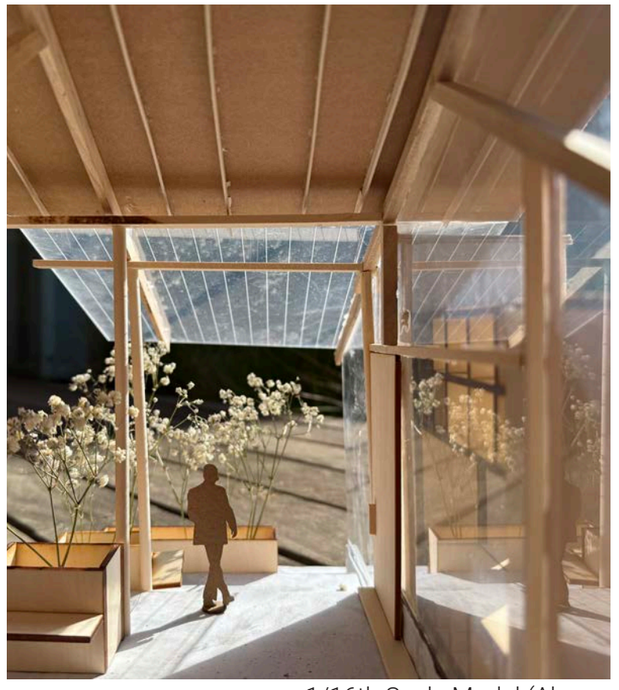
Plan View





Longitudinal Section (Above) & Cross Section (Below)



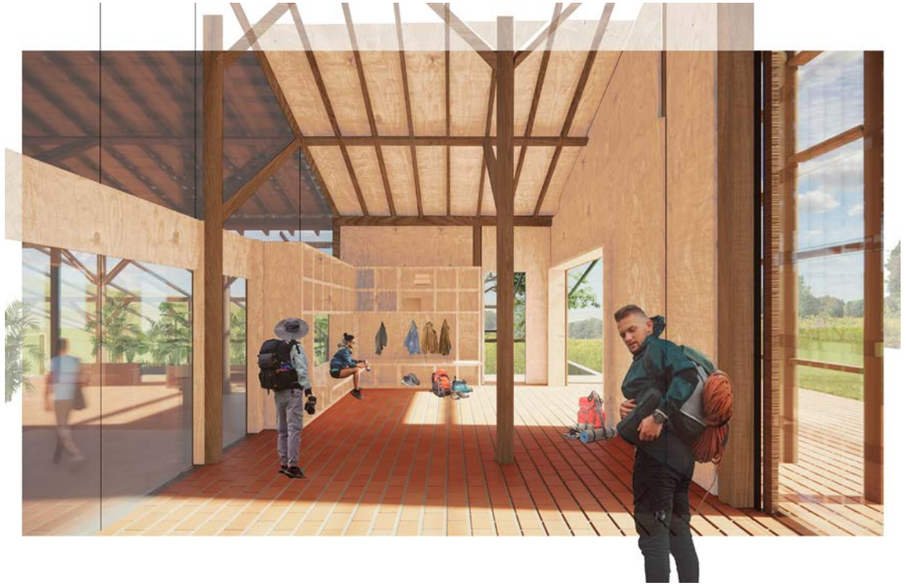




1/16th Scale Model (Above, with Roof Removed) & Morven Site Plan (Below)



Exterior Perspective Render
21





Interior Perspectives: Entry & Gear Room (Above) and Cooking Class (Below)
22

03

ERGO TERGO

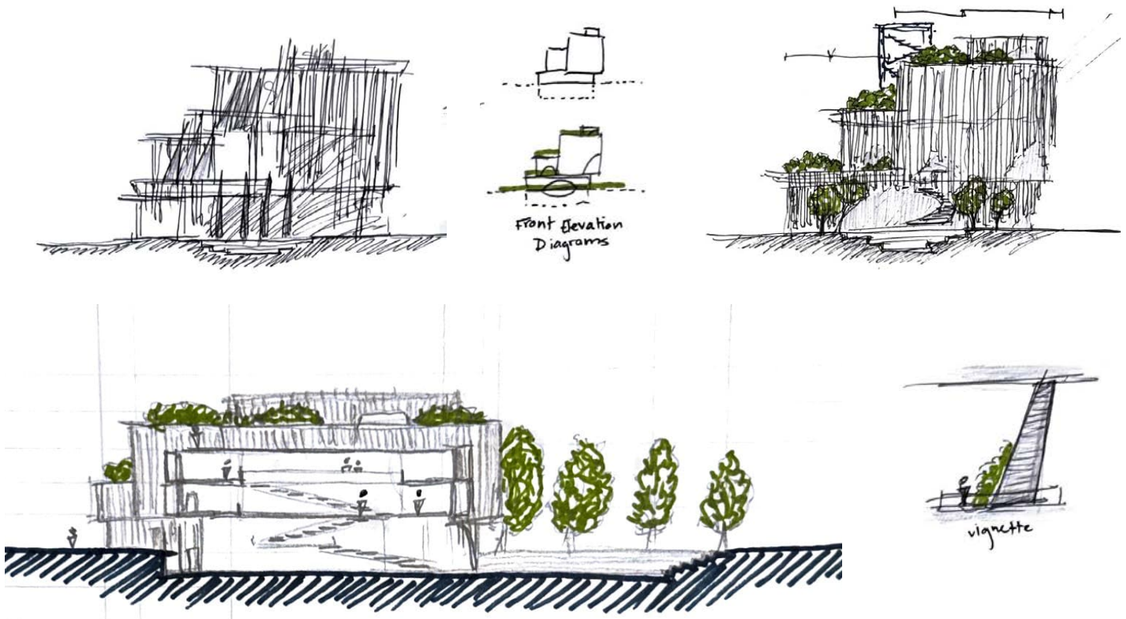
Professor: Isaac Mangual-Martinez
Fall 2024

This scheme represents a design proposal for a **civic center in Adams Morgan DC**. Its spatial organization and form combines a **modern library and civic resource center** in order to support the diverse population of the surrounding neighborhood. The monumentality of the project works to make the building act as a beacon, emphasizing wayfinding and offering a new sense of identity to arguably the most central and lively intersection in this historic neighborhood. The scheme is designed with a set of tiered off floors and levels which cascade down to the commercial center of Adams Morgan, also the center of cultural restaurants as well as nightlife. With the civic center also acting as a library, spaces become available to both archive and showcase the history of the Adams Morgan neighborhood and the individuals who make up the **culturally-rich community.**

The **structure of this design is recessed from its facade**; the actual structure, made up of clear glass and strong wood joints, steps back from the first layer of the facade, made up of thin wooden rods that give the building a more natural feel and allow for light to be filtered into the building while trumpet vine grows across it. Spaces become available for individuals to experience the facade, walking between the wood and the structure. The name of the project, "Ergo Tergo," comes as a result of the building's unique skin, the experience inside, as well as the buildings' work to protect the culture of the neighborhood, translating from Latin to English directly as "therefore, with a shield" or "therefore, with a layer of protection."



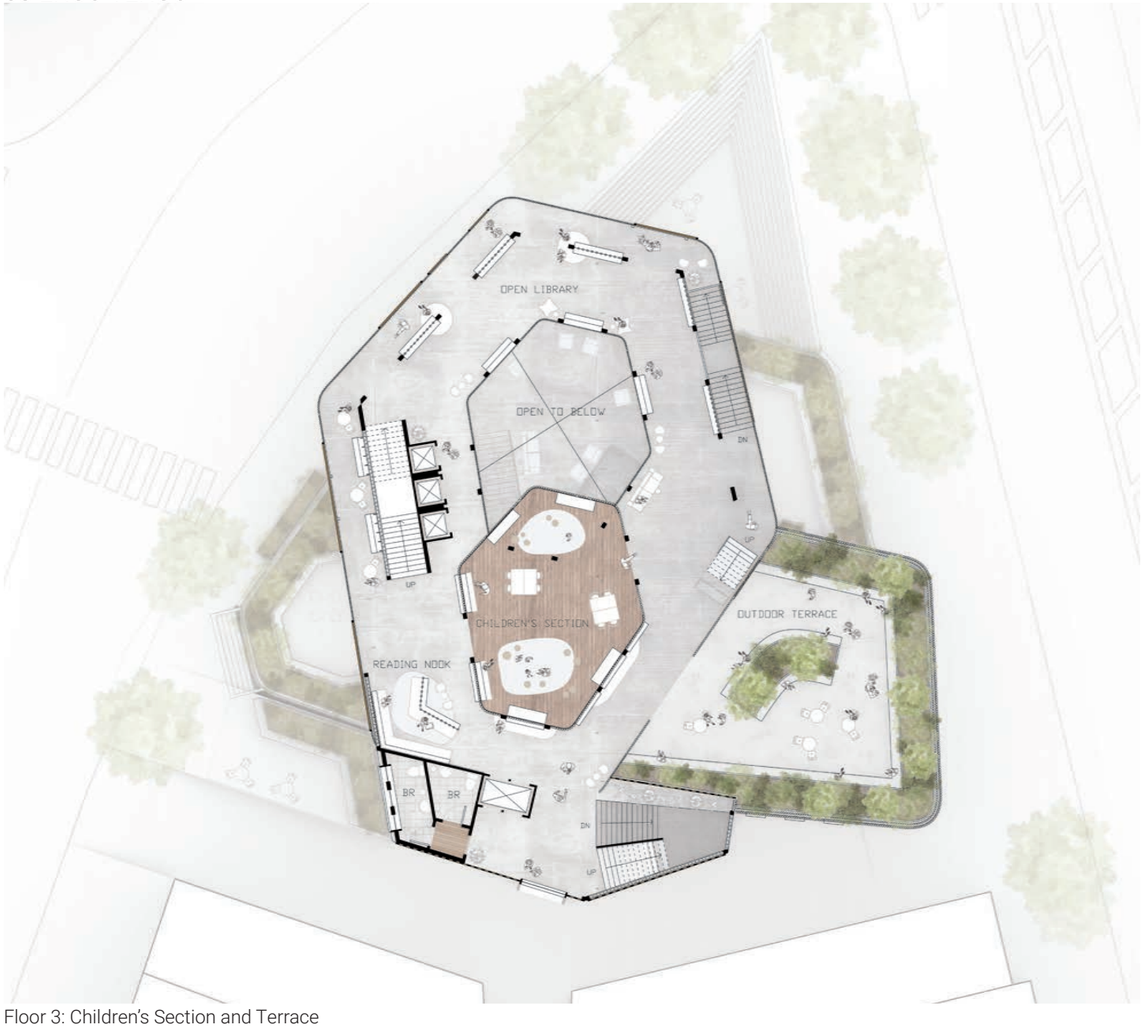
ADAMS MORGAN, DC Site Plan



Concept Sketches & Vignettes: Plaza Concept, Green Space, Form Development



Aerial View & Context Photos



Floor 3: Children's Section and Terrace



Floor 1: Lobby & Public Exhibition



Floor 2: Housing Resource and Legal Aid



Floor 5: Rooftop Cafe and Terrace

Floor Plans





Interior Perspectives: Housing Resource Center (Above) & Circulation Space (Below)



PROGRAM ORGANIZED

Rooftop Cafe & Terrace Event Space

Teen's Section & Top of Library

Children's Section & BalconyTerrace

Housing Resource Center, Admin, & Library Base

Public Culture Exhibit, Performance Space, & Lobby

Stacks, Archives, & Facilities

Program Diagram: By Floor (Above)

Longitudinal Section



1/8th Model (Top Left), 1/16th Context Model (Top Right), & East Elevation (Below)



1/8th Detail Model: Facade Peeled Back to Highlight Interior Spaces

04

NEW ANGLE RVA

Professor: Dhara Goradia
Spring 2024

New Angle RVA is a **mixed-use collective housing community** offering options for equitable housing in the central Richmond area. The variation in unit type and style stems from the site's unique position along the **border of the Fan District and Scott's Addition in Richmond**, and the overall design seeks to blur the lines between these two districts. While allowing more green space to creep north into the outskirts of the Scott's Addition, the small business-oriented and lively culture of Scott's Addition are pulled across Broad street through the **urban redesign** of the surrounding blocks. Pedestrians are drawn into a public performance space within the project through the conversion of a nearby parking lot into a connecting green space.

Opposite to the **public courtyard and amphitheater** is the private courtyard for residents only, surrounded by structures that begin to step down to the scale of the homes on the south side of the site in the Fan. Cutshaw avenue adjacent to the project would be converted to a more pedestrian-friendly and walkable space, with access to the **mixed-use** and small business spaces on the ground level. **Green space** stretches through the site with organic paths that allow for residents to navigate through a central natural area, following a pattern that contrasts the sharp and orthogonal design language of the structures themselves.



Figure-Ground



SITE PLAN



Intersections & Noise



Canopy vs. Parking

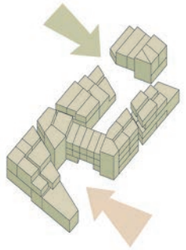


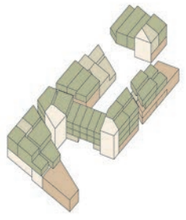
Traffice & Walkability

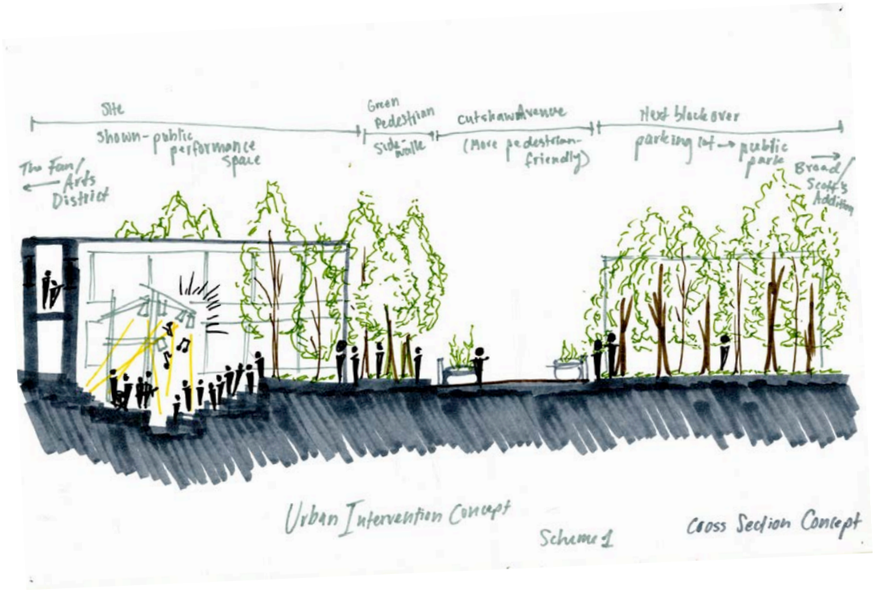


District Blur

Site Diagrams: Analysis & SWOT







Concepts: Axon Diagrams & Sectional Concept Sketch



Aerial View



Floor 3: Plan View Showing Unit Layouts



Restaurant (Kitchen & Dining Room Shown)

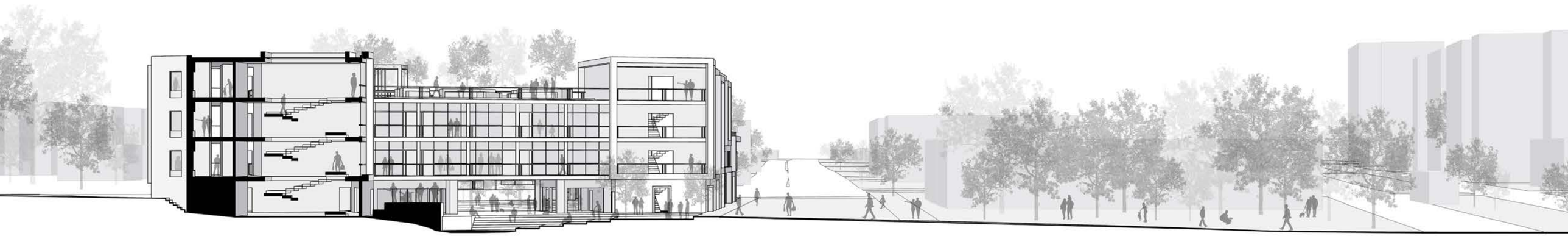
Public Ampitheater & Performance Space

Bridge Passthrough & Single-Occupant Units Above

Indoor/Outdoor Performance Space & Double-Occupant Units Above

Private Quiet Courtyard

Family-Style Units & Shared Resident Space



The Fan District

Central Stairwell & Circulation

Public Ampitheater & Performance Space

Mixed-Use & Storefronts

Pedestrian-Friendly Walkway Across Cutshaw Ave.

Proposed Public Green Space

Scott's Addition

Longitudinal Section (Above) | Cross Section (Below)







Final Model: View of Private Inner Courtyard (Bottom Left)
37

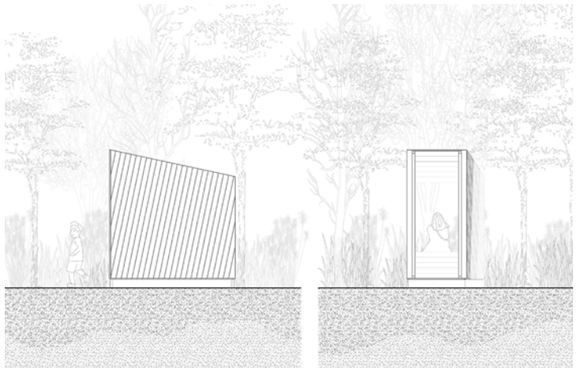
Public Ampitheater Render (Top Left) **and Inner Courtyard Render** (Right)
38

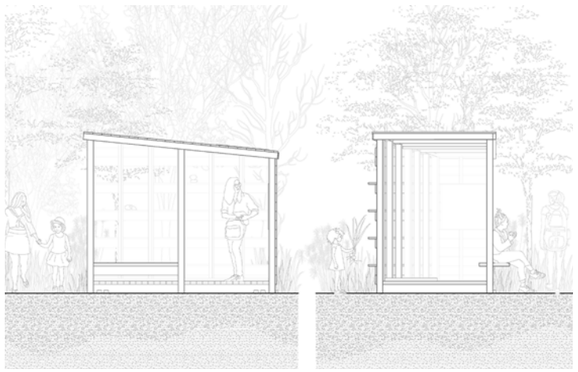
05

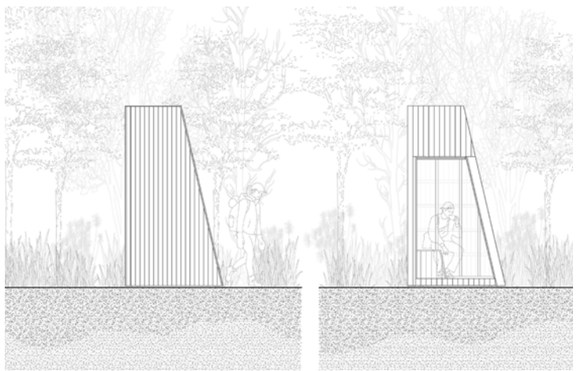
TRAILHEAD PAVILION

Professor: JT Bachman
Design-Build Project with Isabel Hamilton, Jack Allison, and Nick Kaperday
Fall 2025

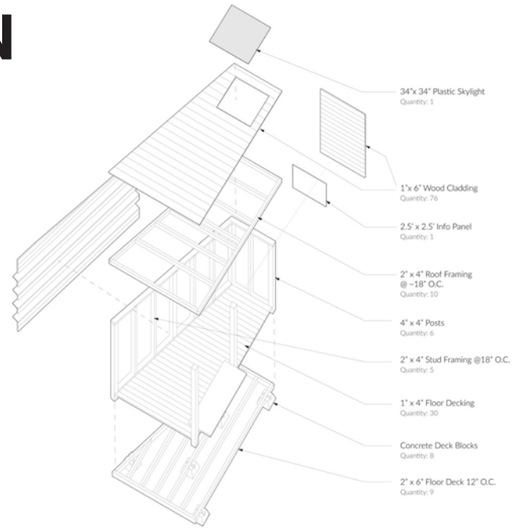
This trailhead pavilion was designed and built for **Morven's Trail System** for the class, ARCH 5500, Processing the Anthopocene with JT Bachman. The design offers hikers a space to rest and reflect, using recycled plastic elements in the skylight and local wood. Our group's three-pavilion design was selected by Morven stakeholders and narrowed to one to be constructed.

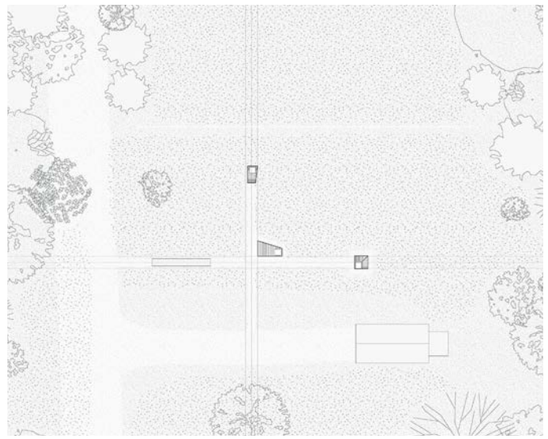






Elevations: Three Initial Pavilions







Axon, Site Plan, & Concept Render: By Team



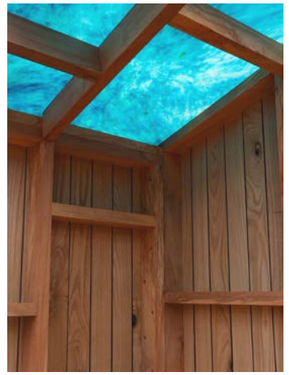






Process: Pressing Plastic Sheets & Milling Locally Sourced Wood









Assembly: Construction at Morven (Ongoing)



Documentation: Photo Gallery

06

SKETCHING IN VICENZA & THE VENETO

Professor: Ines Martin Robles & Luis Pancorbo Crespo
Summer 2023

This project stems from a summer studio based out of **Vicenza, Italy** with an emphasis on **hand-drawing and drafting skills**. The final book included **over 60 final sketches**.















LAW FIRM EXTERIOR PROPOSAL

Firm: ENV, Richmond Office
Internship Summer 2025

For this project, I worked closely and directly with a client, a **local Richmond law firm**, to determine the **scope and design** for an architectural update to their exterior of their main office building. The project included a series of **presentations and renders** made in collaboration with Mohamed Ali, a fellow designer in the office, who applied general materials and lighting to my 3D model in Twin Motion. I was responsible for all of the **design work, diagrams, the digital model, post-production and editing, and the final presentation to the client**, while recieving feedback and mentorship along the way from ENV's design principal, Whitney Campbell.

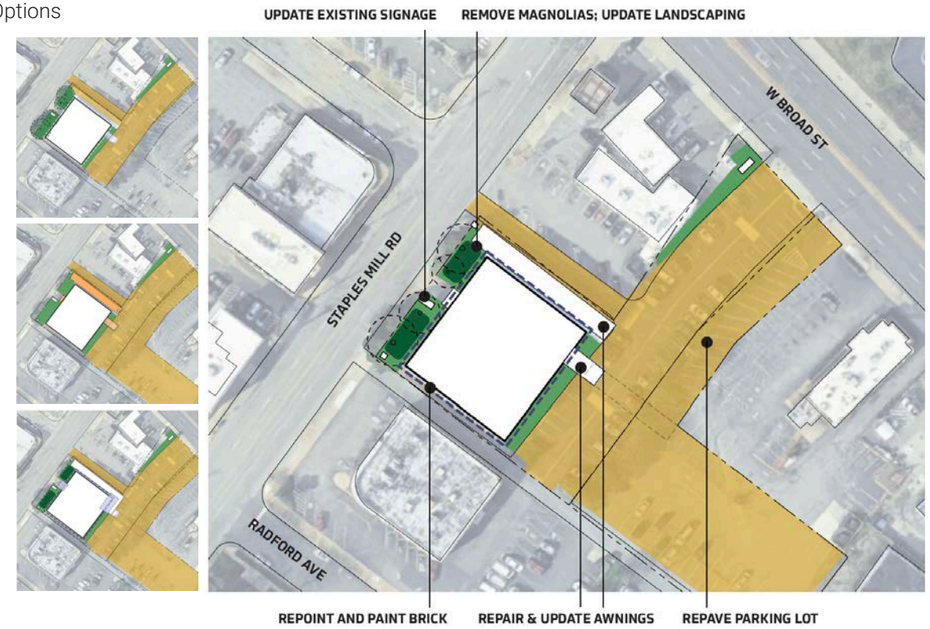


Project Scope: Three Options

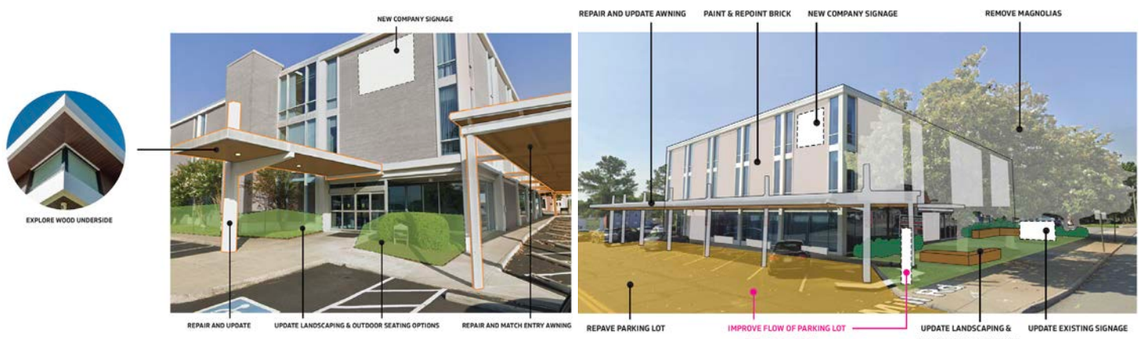
Level 1: Minimal
Most affordable

Level 1: Moderate
Mostly costmetic

Level 3: Maximum
Most architectural



Selected Project Scope: Plan Diagram (Above)



Back Entry: Proposed Design Option

Front Entry: Proposed Design Option



Back Entry: Final Render



Front Entry: Final Render





Landscape & Outdoor Seating: Proposed Design Option for a new public-facing green space in front of the law firm. Included as a part of final presentation.

RESEARCH & PRESENTATIONS AT QE

Firm: Quinn Evans, Richmond Office
Internship Summer 2024



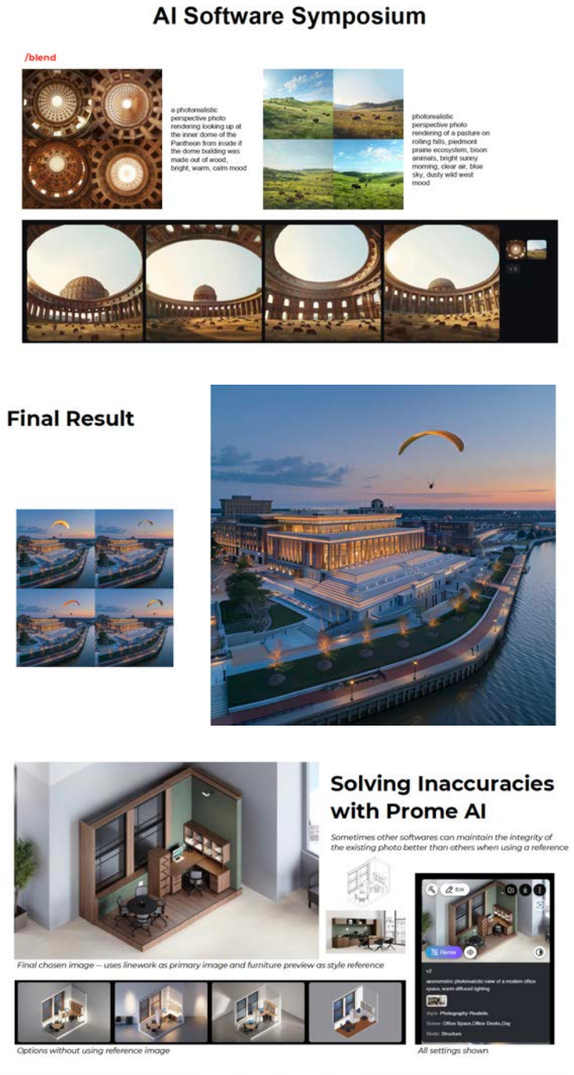






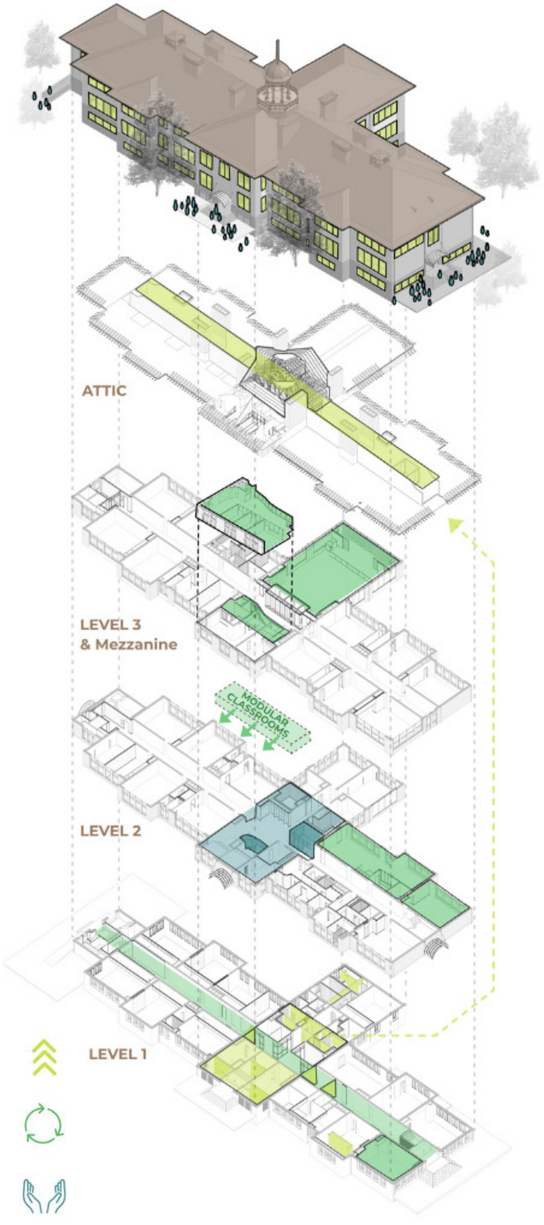
Rendering with AI: Cascade House (Presented at Software Symposium)

The two above renders of Cascade House, an **original academic project** from ARCH 2020, were created using **text and image to render** software, **Rendair**, including additional parameters programming lighting, geometry, and style reference as a part of independent research on using AI software in post production, inspiration and ideation, and other stages of workflow in architecture, presented to Quinn Evans architects' Richmond Office. The base images pictured above were built through a 3D **Rhino Model and Enscape renders** with additional photoshop work and post-production editing.



Software Symposium: Presentation on AI

This series of slides is an exerpt from a greater presentation and comprehensive **how-to-use guide from research on AI** software in the field of architecture. The final slide deck was presented to the Richmond office during the internship and exists as a standing resource for designers to reference.



Fox Elementary: Project Concept Axon

This **series of diagrams** makes up the summer 2024 intern project presented to the firm as a whole alongside professional work for the **Fox Elementary restoration project,** a historic school in Richmond that suffered from a devastating fire.



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