

**KAYTHARI KHINE**

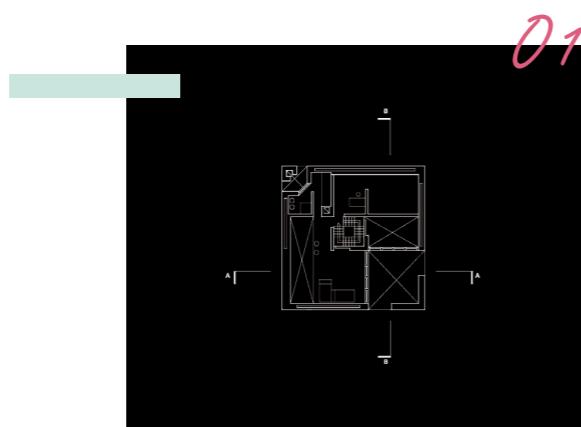
UNIVERSITY OF SOUTHERN CALIFORNIA

2023

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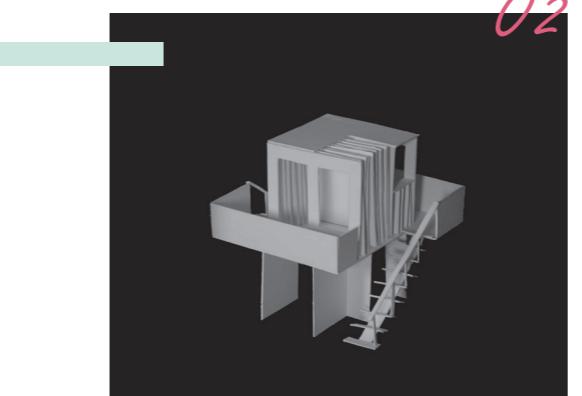
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## CASE STUDY

08 - 22

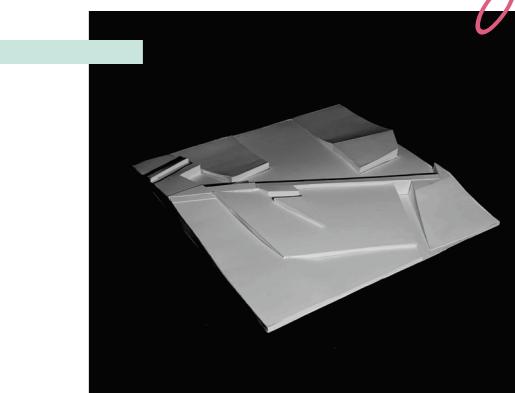
01



## BODY IN SPACE

09 - 22

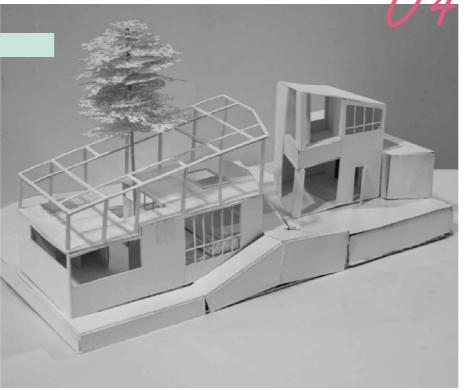
02



## FIGURE GROUND

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**DWELLING  
SPACE**

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**CURVILINEAR  
CONCEPT MODEL**

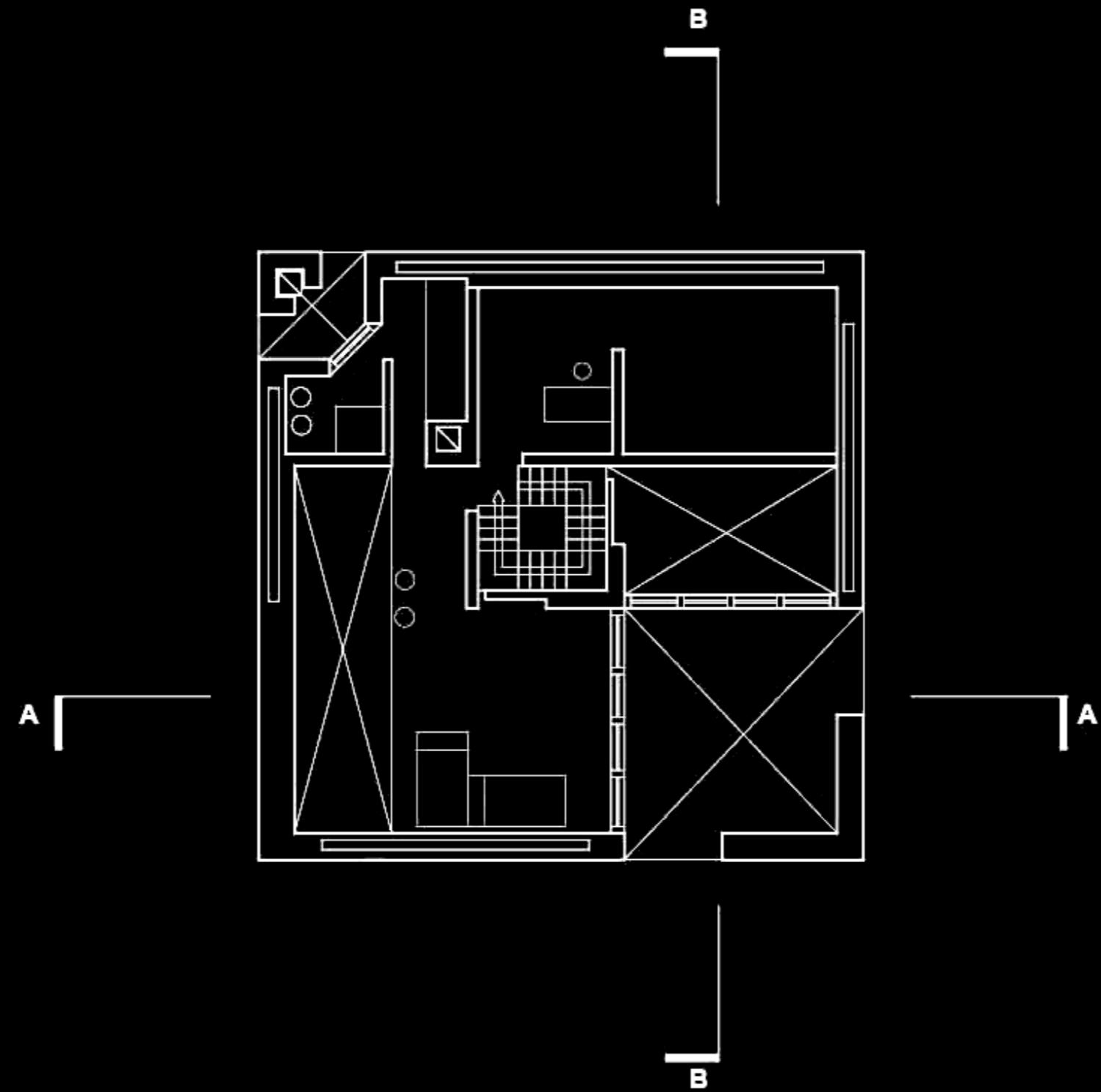
03 - 22

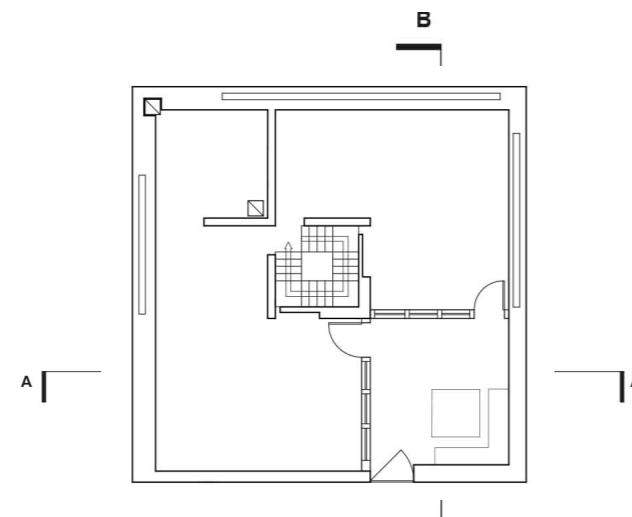
# O1

## CASE — STUDY

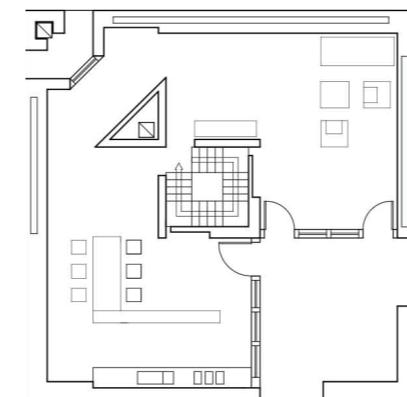
Tools: Rhino & Adobe Illustrator

In this first project, a detailed case study of the Casa Bianchi house in Riva San Vitale is presented. All the corresponding plans, sections, and elevations provide a look into the architectural anatomy of Mario Botta's design. The architect's skill in crafting open and closed spaces that are interconnected with nature is revealed through the detailed floor plans presented for all five levels of the house. On the other hand, the cross sections offer a glimpse into the core of the home, highlighting the interaction between the living spaces and the terraces. Similarly, an analysis of the house is drawn to capture the essence of spatial interplay between the more intimate and exposed sectors within the residential design. Botta's expertise in merging practicality with architectural expression is depicted in a succinct and comprehensive way.

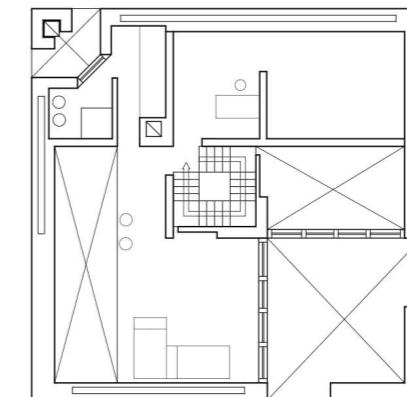




First Floor Plan



Second Floor Plan



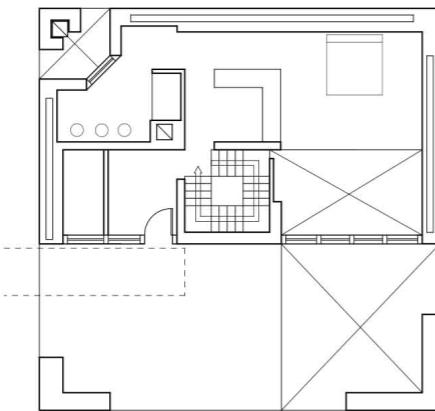
Third Floor Plan



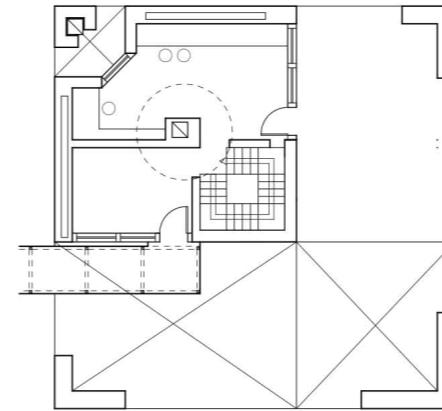
Cross Section A-A



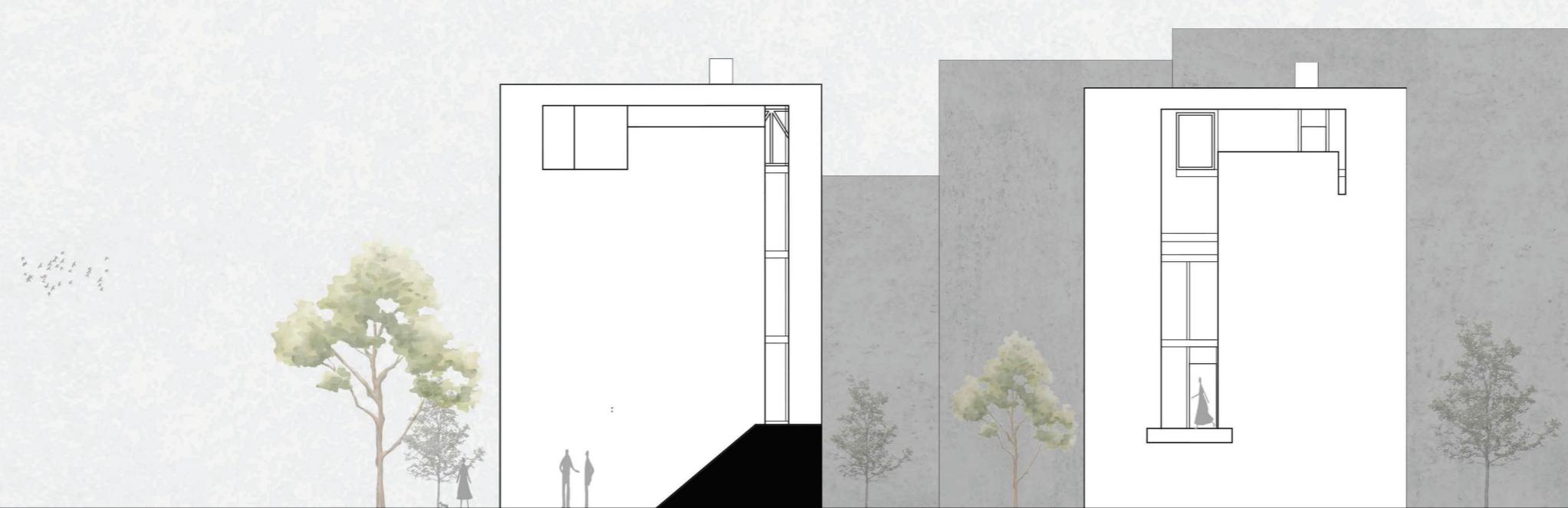
Cross Section B-B



● Fourth Floor Plan

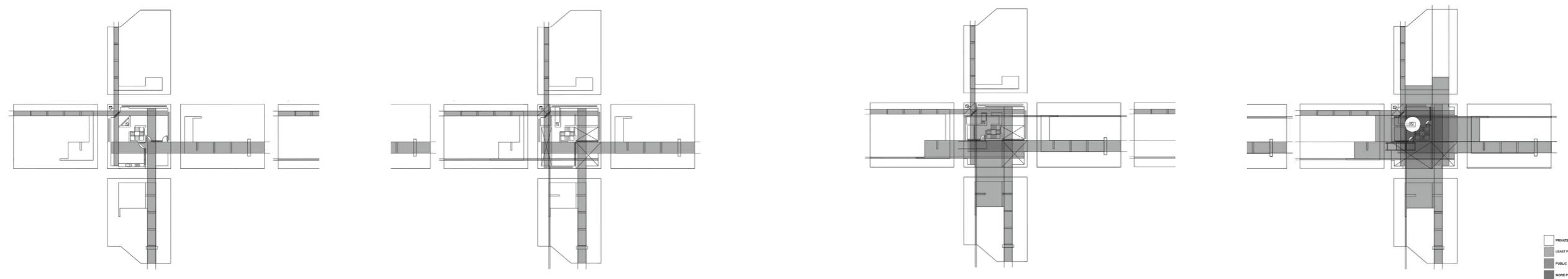


● Fifth Floor Plan

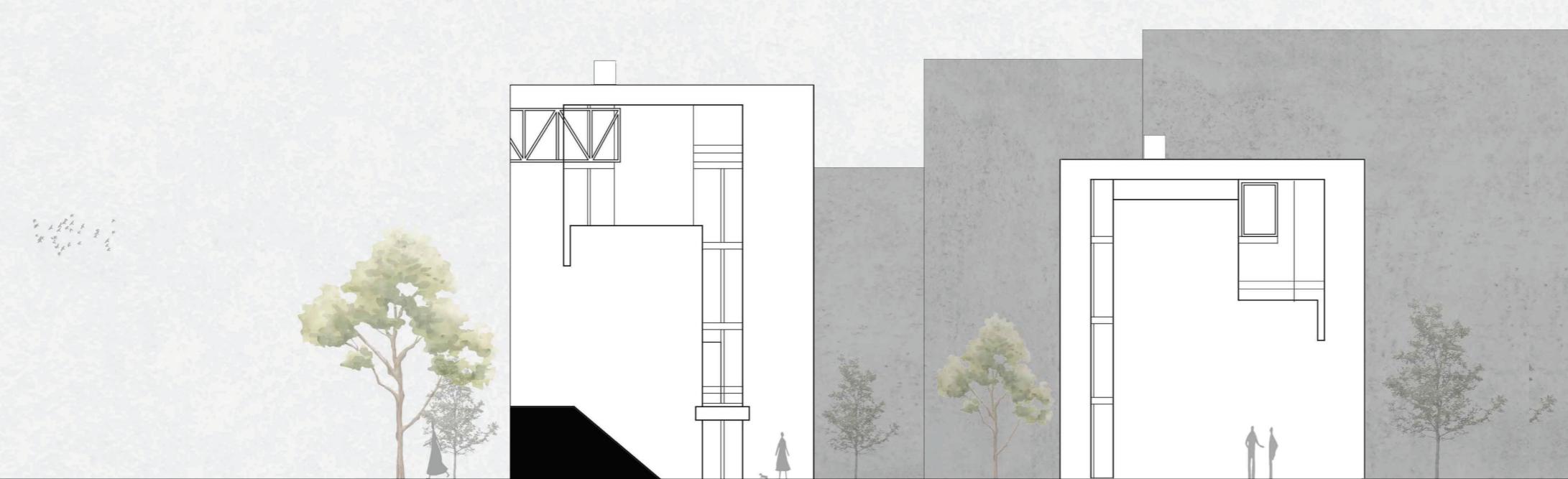


North Elevation

East Elevation



Public Vs Private



South Elevation

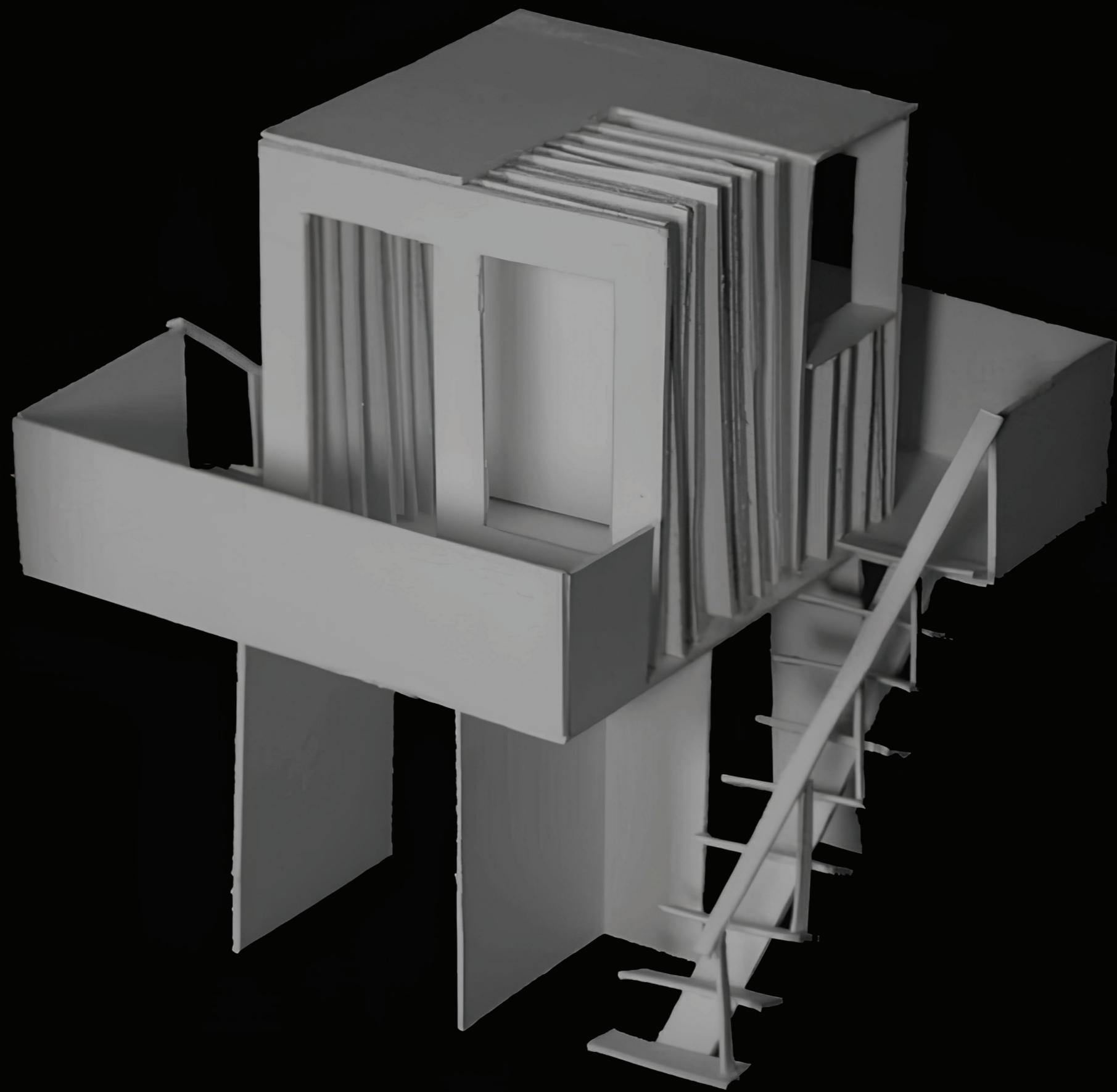
West Elevation

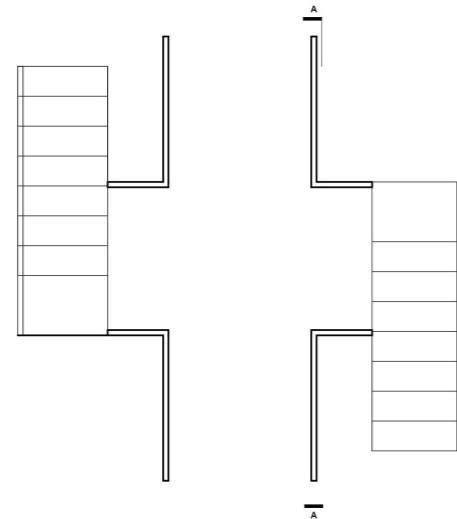
# O2

## BODY — IN SPACE

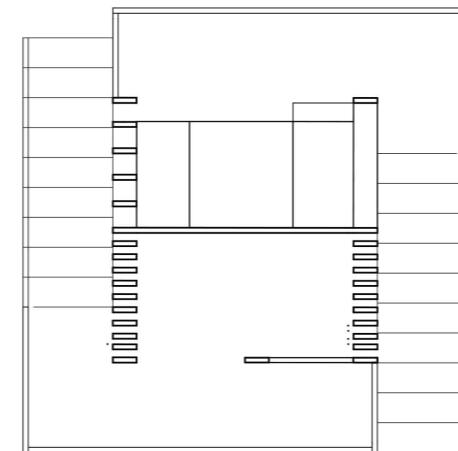
**Tools:** Rhino, Adobe Illustrator & Photoshop

"Body in Space" is an architectural concept that playfully reimagines a traditional family dwelling as an abstract composition of form and spatial interplay. Inspired by the principles observed in the Casa Bianchi study, this project embodies an imaginative realm where open and private spaces are manipulated to create a communal structure that evolves with its inhabitants—a maze-like playground for children at its base and private sanctuaries for adults above. Dual entrances offer divergent paths, symbolizing the project's core theme of privacy and growing independence. The use of thin walls throughout the structure artistically segregates yet unifies the spaces; encapsulating the project's intent to craft a living environment that caters to both collective interaction and individual solitude. Through its plans, isometric views, and cross-sections, "Body in Space" invites engagement with an architectural form that is as dynamically experiential as it is thoughtfully designed.

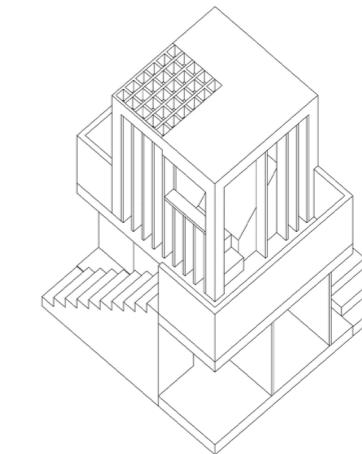




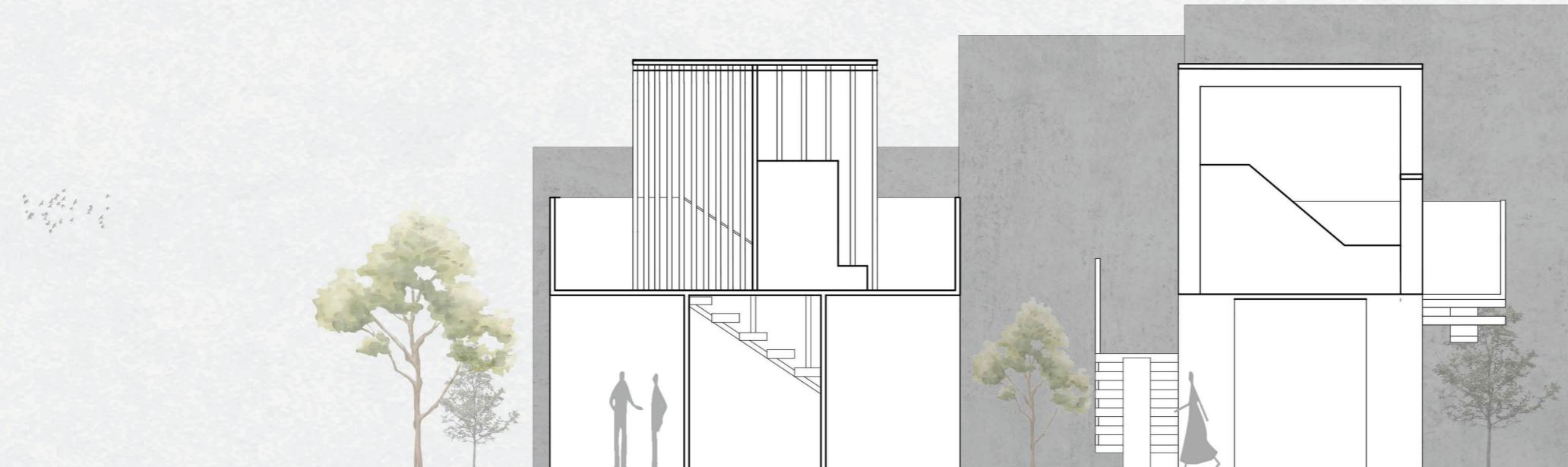
First Floor Plan



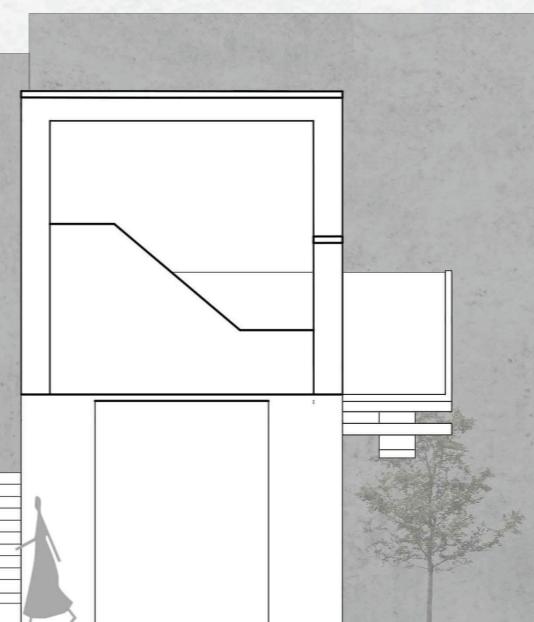
Second Floor Plan



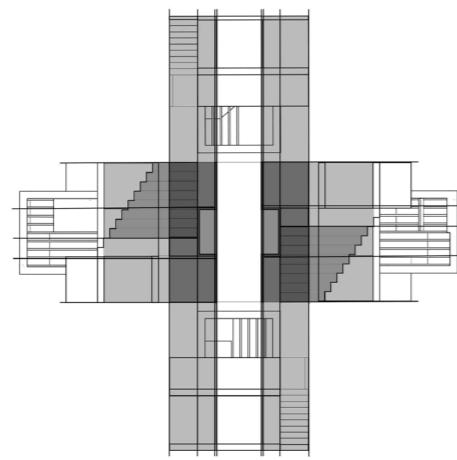
Isometric View



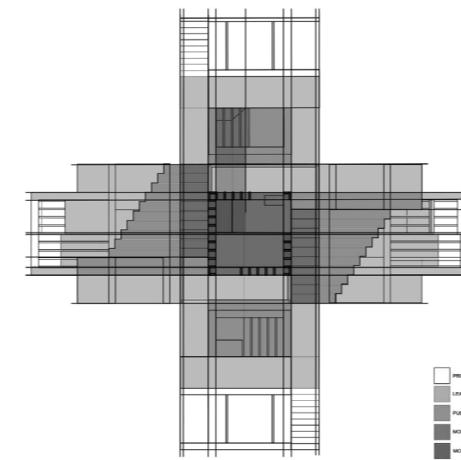
Cross Section A-A



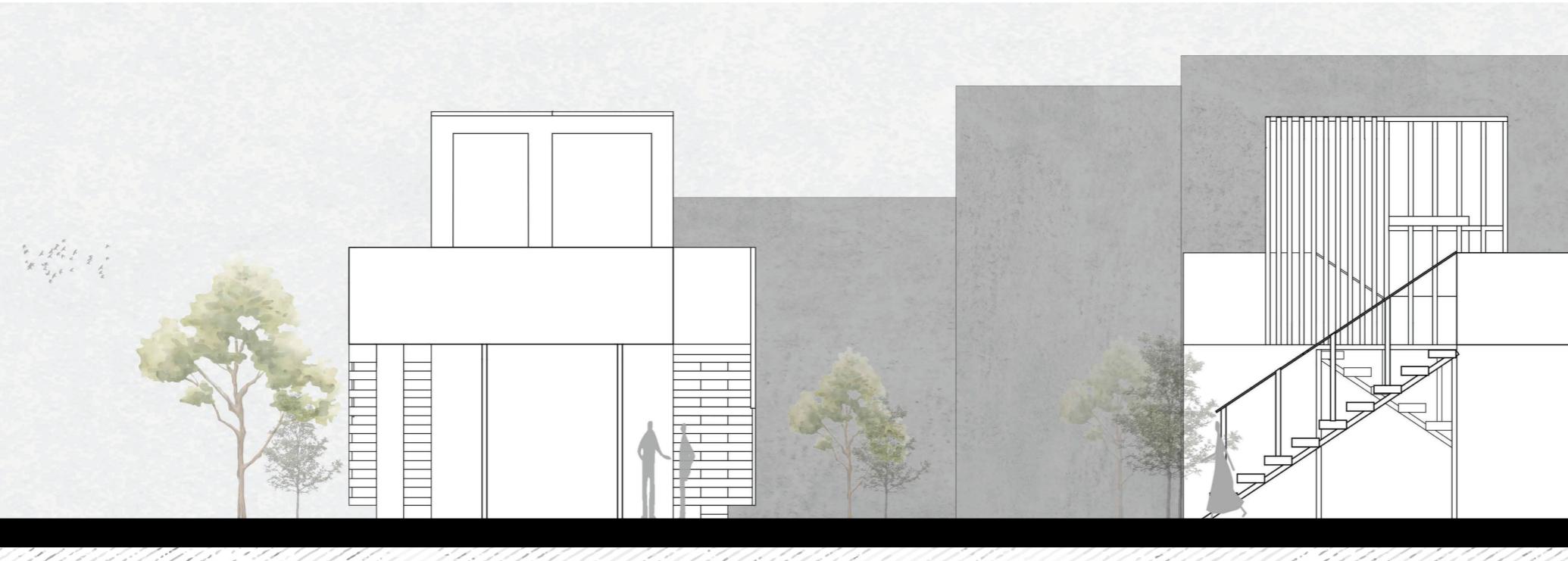
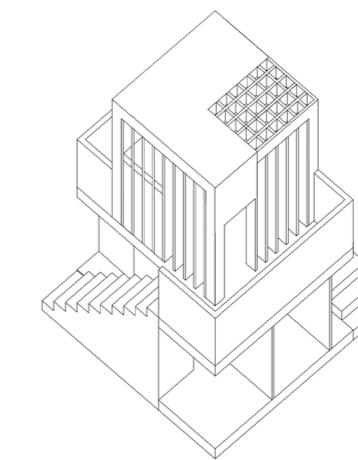
Cross Section B-B



Public Vs Private

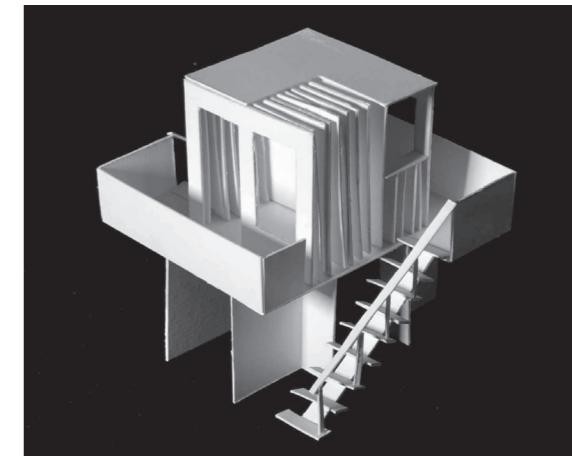
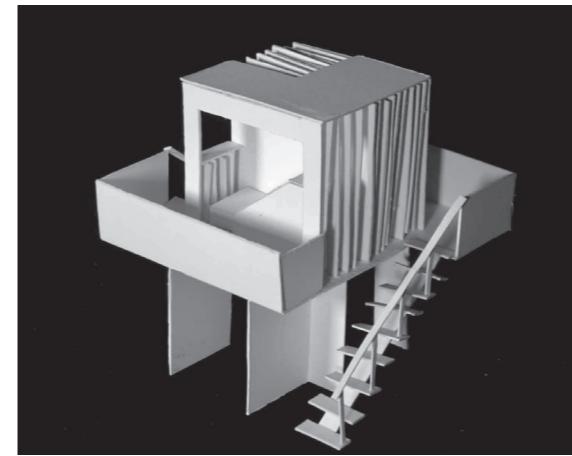
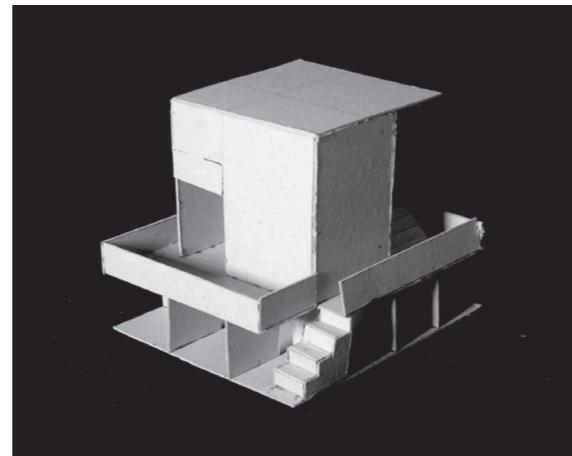
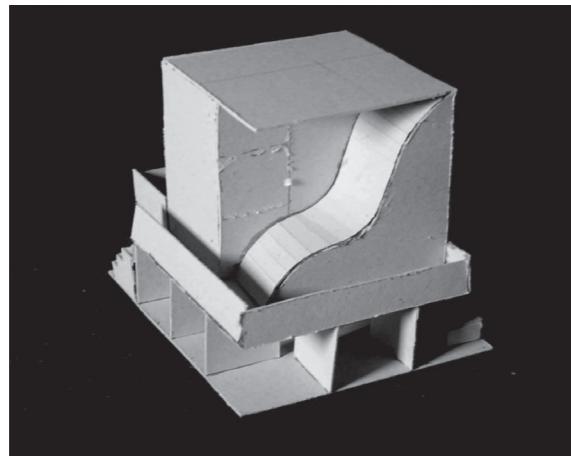


Isometric View

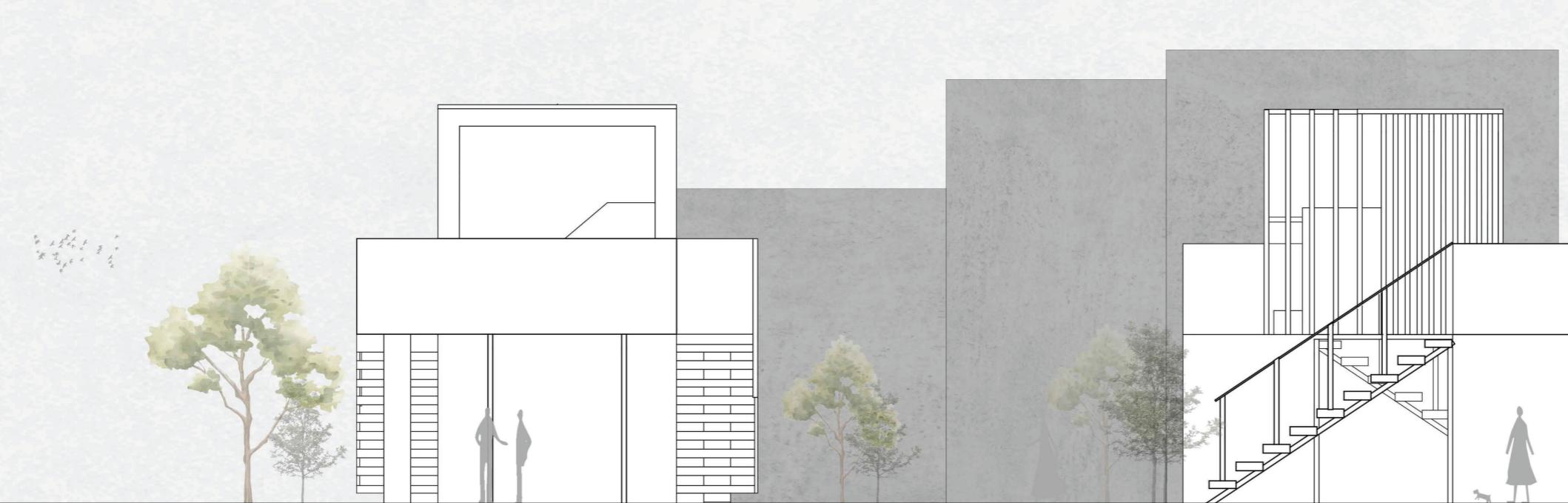


Elevation A

Elevation B

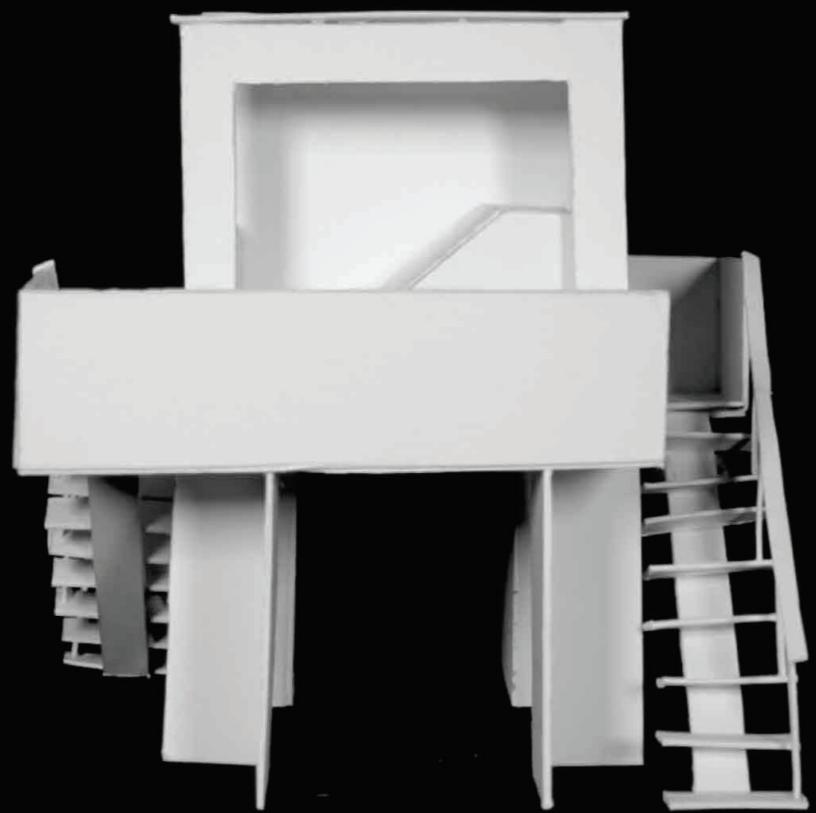
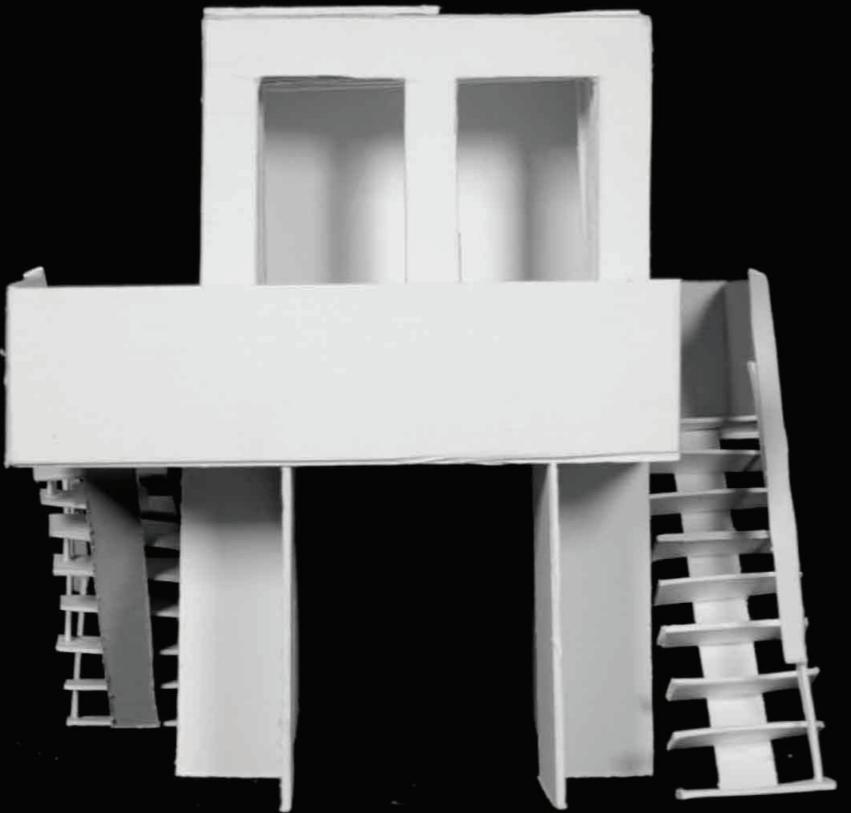


Physical Model



Elevation C

Elevation D



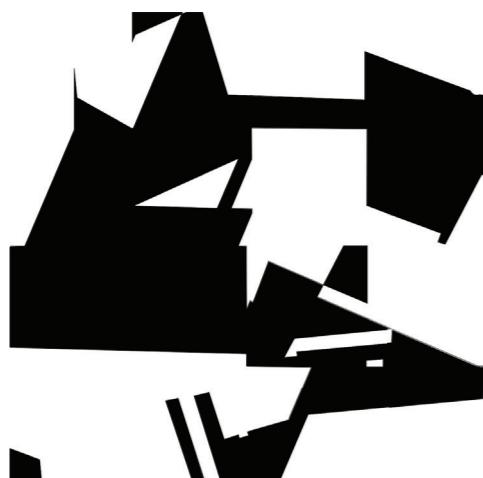
# O3

## FIGURE — GROUND

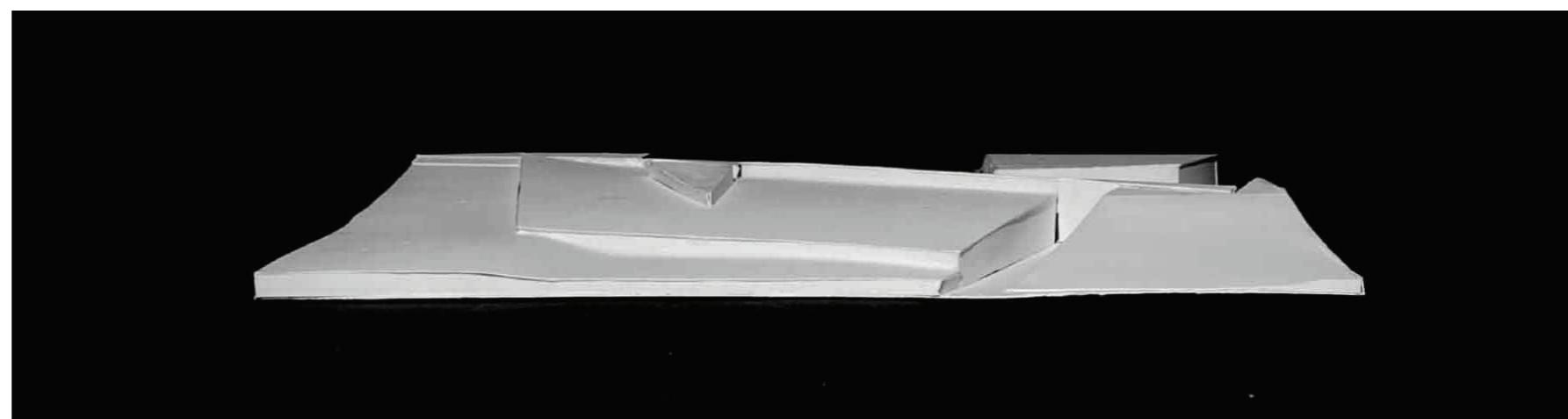
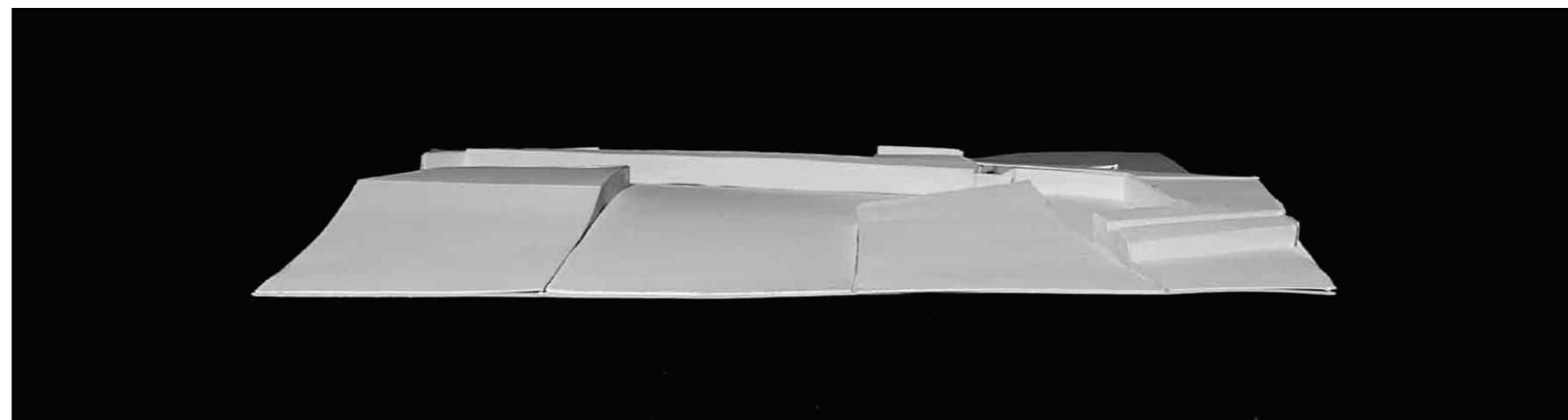
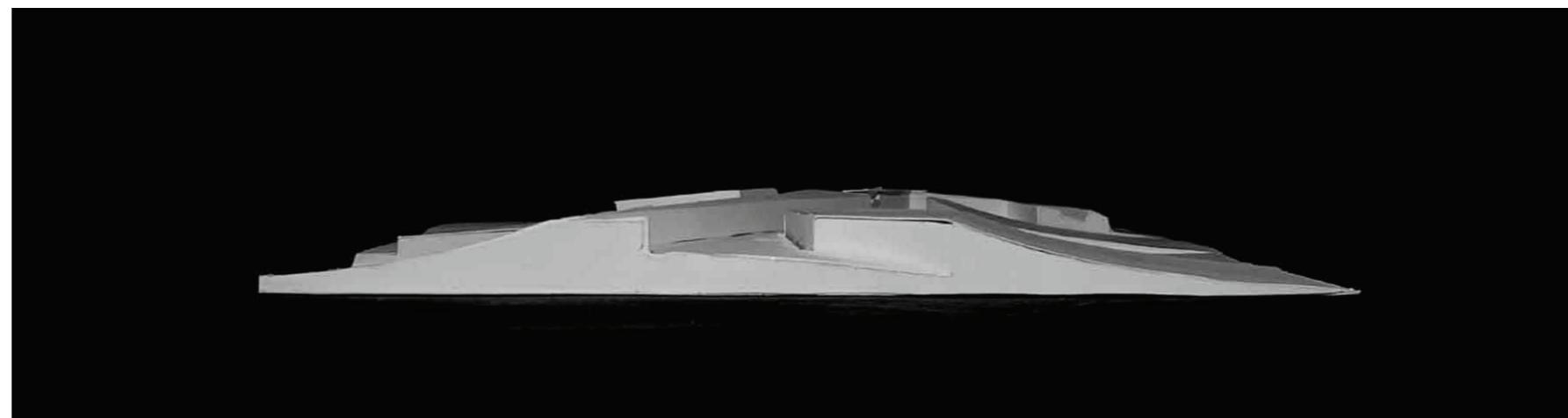
**Tools:** Rhino, Adobe Illustrator & Photoshop

"Figure Ground" is an architectural configuration where form follows function, as pre-existing shapes from earlier projects are reinterpreted to navigate the concept of figure-ground perception using its abstract framework. Inspired by the dynamism of skate parks, this design encapsulates a study of space and structure, leading to a dual-zoned park that caters to both novice and experienced skaters. Intentionally segmented zones are divided by a central separation, serving as a physical boundary between the beginner and advanced areas. The park's sculptural landscape of ramps and platforms mirrors a skater's flow, symbolizing their evolving mastery. Through its design, "Figure Ground" encapsulates not just a recreational space, but a narrative of motion and space.





Draft + Final Drawings



Physical Model

# O4

## DWELLING — SPACE

**Tools:** Rhino, Adobe Illustrator & Photoshop

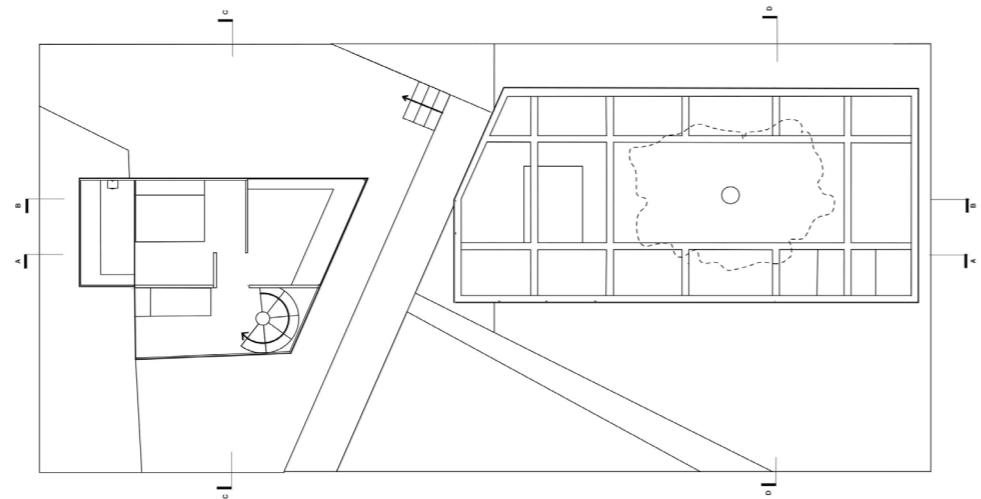
"Dwelling Space" stands as an architectural homage to the union of residential living and nature, ingeniously crafted on the foundational base of the "Figure Ground" project which is now reinterpreted as a hillside site. It features two houses—aligned along the dividing crest—marrying architecture with the natural contour of its hill-split site. Their forms parallel this, with both dwellings' roofs and entryways meeting at the divide.

The larger home, tailored for a couple, unfolds as a single-story living space. Each room cascades down in a sequence of steps, demonstrating functional zones without compromising the spatial flow. Its tiered arrangement not only accentuates the dwelling's integration with the sloping landscape but also allows natural light to penetrate deeply, creating a series of illuminated spaces that transition smoothly from kitchen, to living, to sleeping areas. The essence of open living is further exemplified by an expansive courtyard and a rooftop terrace that invite the outdoors in, offering residents a seamless connection to the environment. This architectural choice also reflects a deep respect for nature, as depicted by the design of the house gracefully constructed around an existing tree. The tree rising through the structure, stands as a living centerpiece: symbolizing the home's commitment to coexisting harmoniously with its pre-existing surroundings.

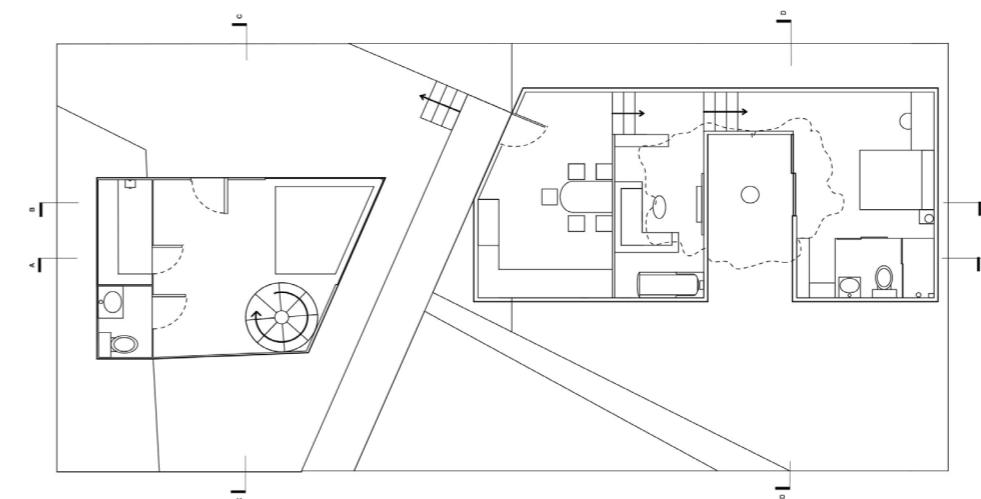
In contrast, the smaller guest house embodies verticality, with its two levels of living space offering varied perspectives of the terrain. Its open terrace and floor-to-ceiling windows are woven into the fabric of the home's design, blurring the lines between indoor comfort and the raw beauty of nature. Tucked into the hillside, a discreetly placed bathroom offers privacy while honoring the surrounding elements.

While each dwellings' designs are distinct, they are unified by their orientation and entrances toward this division, fostering a sense of community and effortless communication between the inhabitants. Dwelling Space's design narrative is a celebration of natural light, open spaces, and the thoughtful preservation of nature's elements, fostering a living experience that balances comfort with serenity.

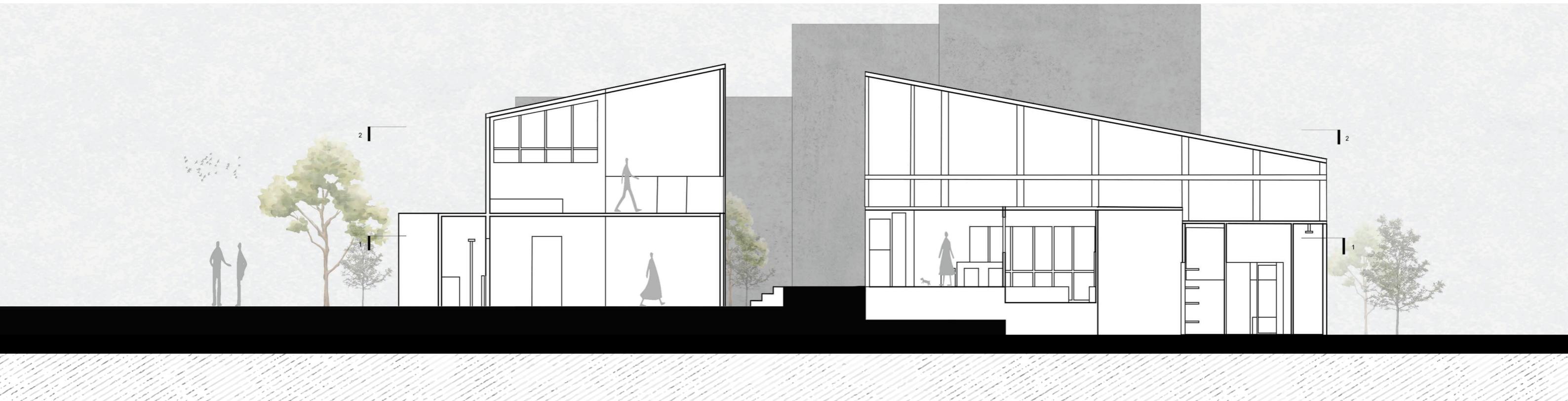




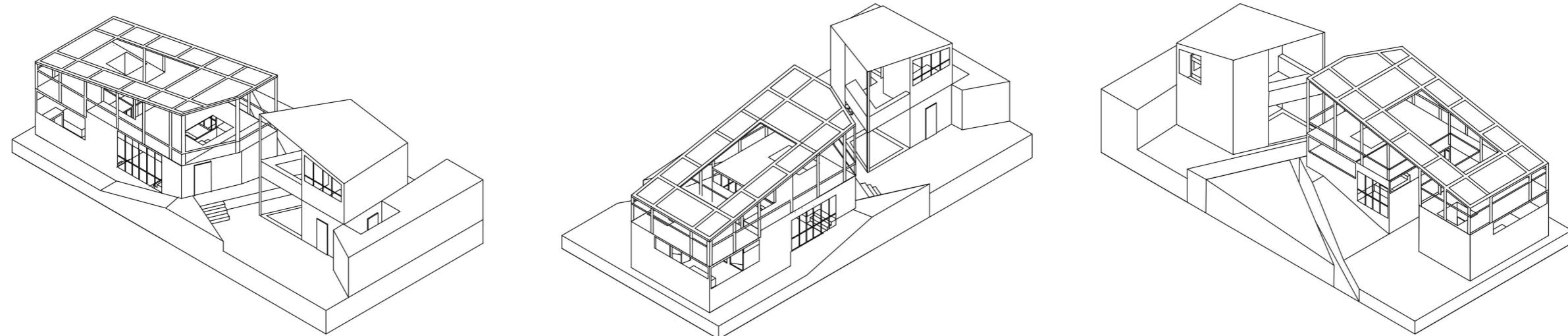
Floor Plan



Section Plan



Cross Section A-A



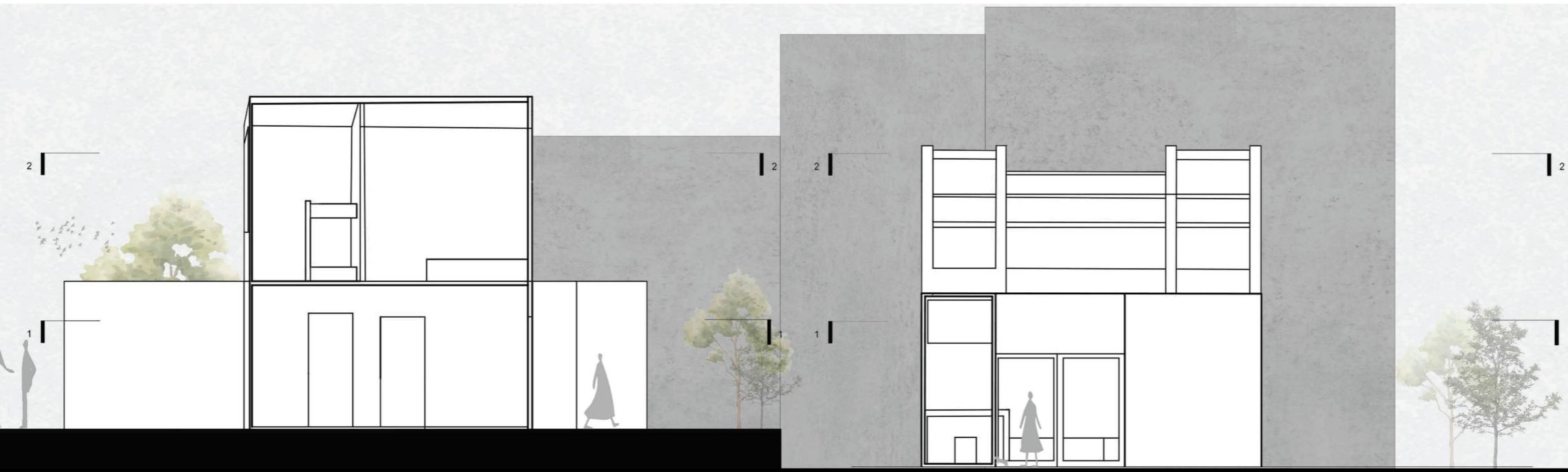
Isometric View



Cross Section B-B

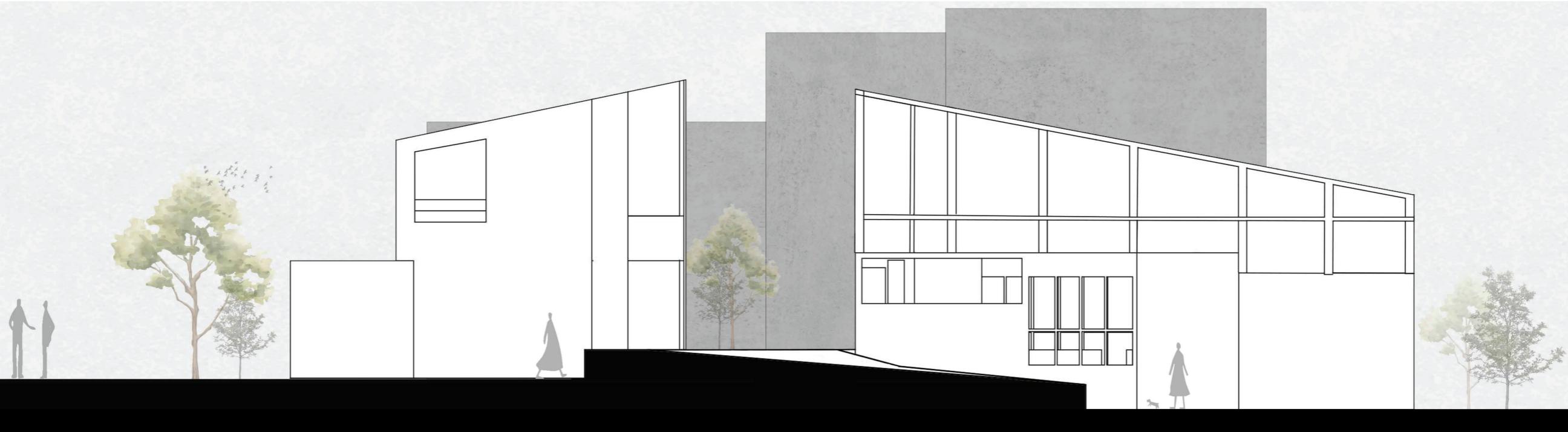


Form Analysis



Cross Section C-C

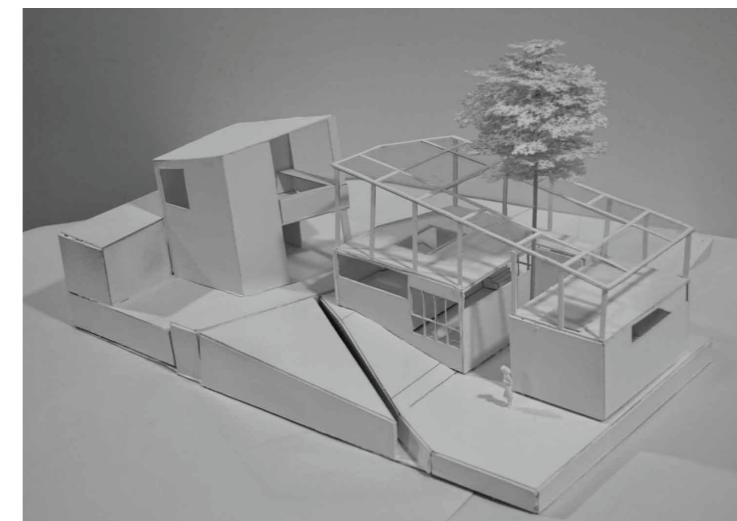
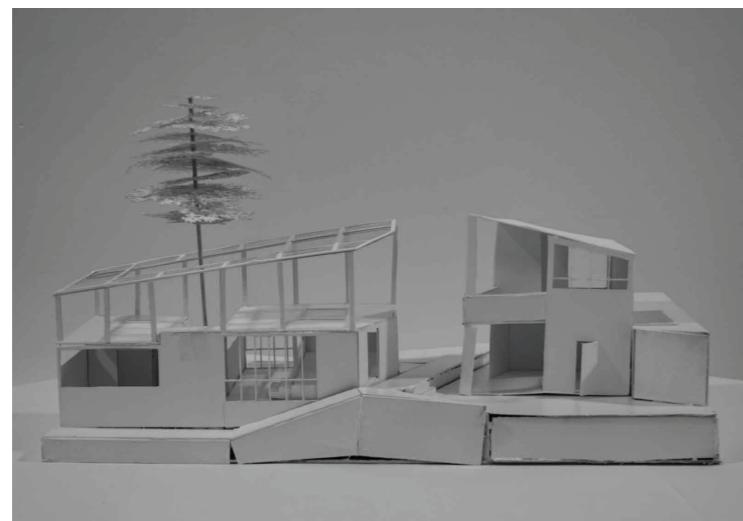
Cross Section D-D



Elevation A



Elevation B



Physical Model



Elevation C

Elevation D

# O5

## CURVILINEAR — CONCEPT MODEL

**Medium:** Wooden Boards (5 mm thick)

**Project Type:** Independent

**Year:** 2022

**Size:** 56" x 36" x 22"

**Concept:** An concept model that uses contrasting straight linear and curvilinear designs to construct a contemporary architecture mall. The design itself was highly inspired by wave lines as seen in topography, and is a minimalist approach to the otherwise complex layers of peaks and valleys. The retail space stands as an artistic interpretation of environmental forms, reimagined into a place of commerce and leisure that invites exploration and engagement.

**Processes:** After drafting a rough layout of the aerial view of the model, each independent shape was sketched onto wooden boards. The shapes were sawed and adhered together to create the model.



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