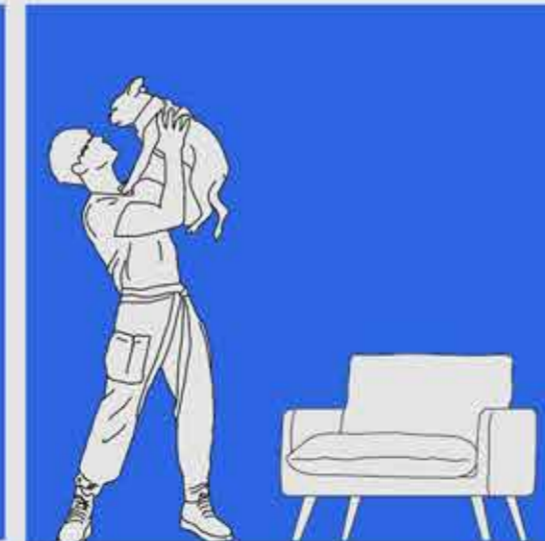
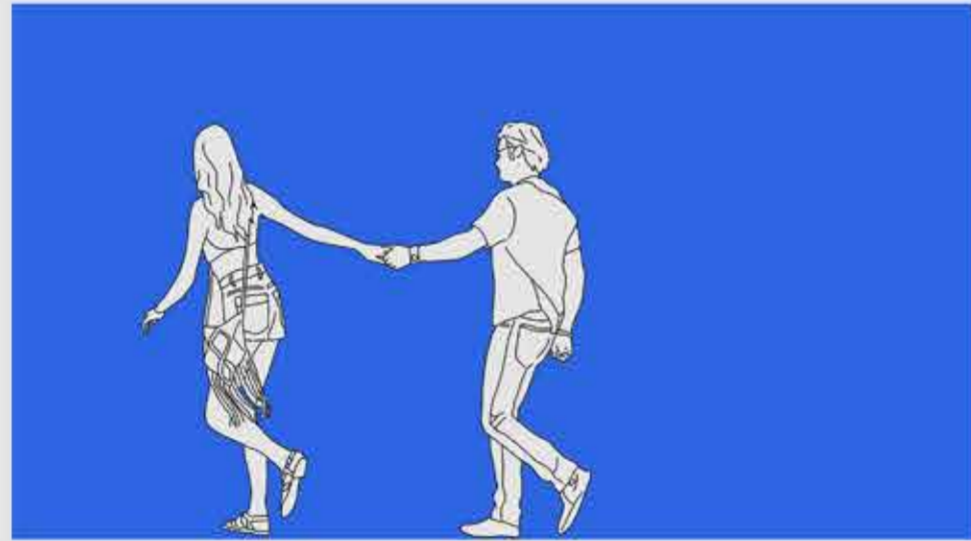
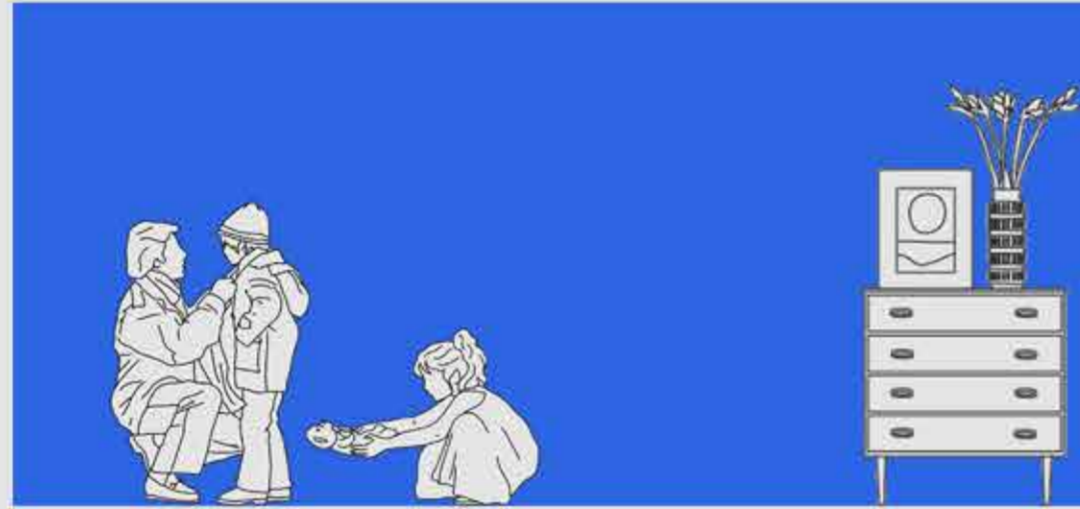


Selected academic
& professional work
2019-2024





I am **Arushi** a professional in architecture and Interdisciplinary design with over 10 years of experience both locally in India and overseas in the United States. My diverse portfolio encompasses Interdisciplinary competitions, hospitality, multifamily, Interior, and commercial projects, reflecting my adaptability and versatility.

I'm driven by meticulous attention to detail and a strong commitment to creating designs that positively impact end users. Functionality, sustainability and aesthetics guide my approach, as I believe that architecture can transform lives and communities. I recently graduated and am ready to enter the workforce to make some real contributions.

Let's connect and collaborate to craft meaningful designs that shape the future for the better.

PERSONAL INFO

Website: www.arushimathur.in/
LinkedIn: www.linkedin.com/in/arushimathur24/

EDUCATION

2022- 2024 Virginia Tech. - Washington Alexandria Architectural Center - M. Arch in Architecture
2012- 2017 Visvesvaraya National Institute of Technology (University Rank 3) - B. Arch in Architecture

FULL TIME EXPERIENCE

2018- 2021 Ryde Design Group + Ismael Leyva Architects
Project Architect, Assistant Project Manager
New York, NY

PART TIME EXPERIENCE

2022- 2024 Virginia Tech. | Graduate Teaching Assistant
MAY - AUG 2023 Intec Group | Intern Architect
Alexandria, VA
Chantilly, VA

LEADERSHIP

2022- 2023 Virginia Tech. American Institute of Architecture Students (AIAS)
Treasurer and Organiser
Alexandria, VA

2023 - 2024 INSIDE Design Summer camp program
Two-time instructor along with designing the curriculum
Alexandria, VA

LICENSE AND CERTIFICATION

2024- 2026 LEED GA | U.S. Green Building Council
2017 - Present Licensed Architect | Council of Architects, India

ACHIEVEMENTS

AUG 2023 Runner up at Interschool Student Design Competition, Issued by AIA | North Virginia
APR 2023 Winner of Solar Decathlon Competition Issued by U.S Department of Energy
2023-2024 Two-time winner of Stedent Scholarship Prize Competition Issued by AIA | DC
JUL 2023 Honorable mention of American Institute of Architects Urban Design Committee, DC
*AIA - American Institute of Architects

SKILLS

Design and Visualization Tools:			Data And Research Tools:		Soft Skills:
BIM Design	Sketchup	D5	Cmap	MS Excel	Project Management
Revit	Figma	Stable diffusion	Data Analytics(basic)	Navisworks	Problem-solving
AutoCAD	UI	Archivinci	MS Office suite	Miro	Adaptability
Bluebeam	Adobe kit	Leonardo	Monday.com		Innovation

Portfolio

01.

Thesis
Design
4th Semester

03.

Recharging
Soft street
1st Semester

05.

67 Weather
By
Atlanta, USA

07.

Penthouse
condo
Washington DC

02.

Nexus
Library
3rd Semester

04.

Holiday
Activity
Kerala IND

06.

135 East
47th LEX
New york

Adaptive Reuse : Co-living for Virginia Tech's WAAC

Washington Alexandria Architecture Center

2024 - Alexandria, VA

This thesis addresses the challenges of student housing and community integration at the Washington-Alexandria Architecture Center (WAAC).

Inspired by personal experiences and recognizing a widespread need among students, the project proposes the adaptive reuse of Old Town Alexandria's structure to create a co-living environment for students. By repurposing existing buildings, the project aims to solve housing shortages while fostering a sense of community.

It integrates the historical and cultural richness of Old Town into the student experience, promoting a balance between preservation and modern living that enhances both academic and professional opportunities for Architecture and Urban Design students.



Adaptive Reuse : Co-living for Virginia Tech's WAAC **Washington Alexandria Architecture Center**

Arushi Mathur

Master of Architecture in Architecture 24



Virginia Polytechnic Institute and State University
Washington Alexandria Architecture Center

Under the guidance of Susan Piedmont-Palladino,
Paul Emmons and Paul Kelsch

DESIGN PROCESS & MASSING

A

Assessment of existing structure
Understand requirements
Site analysis

Assessment + Functional Analysis

Program development

B

Living units
Recreational area
Urban Connections
Facade Development
Concept design
Design development
Schematic design

Material selection

C

Explore Facade design
Sunlight and shadow

F

Collaborative opportunities
Interaction at various levels
a. In student housing
b. Interaction with
c. neighbouring building 1001

Community Engagement

Wellness + Health

Flexibility + Adaptability

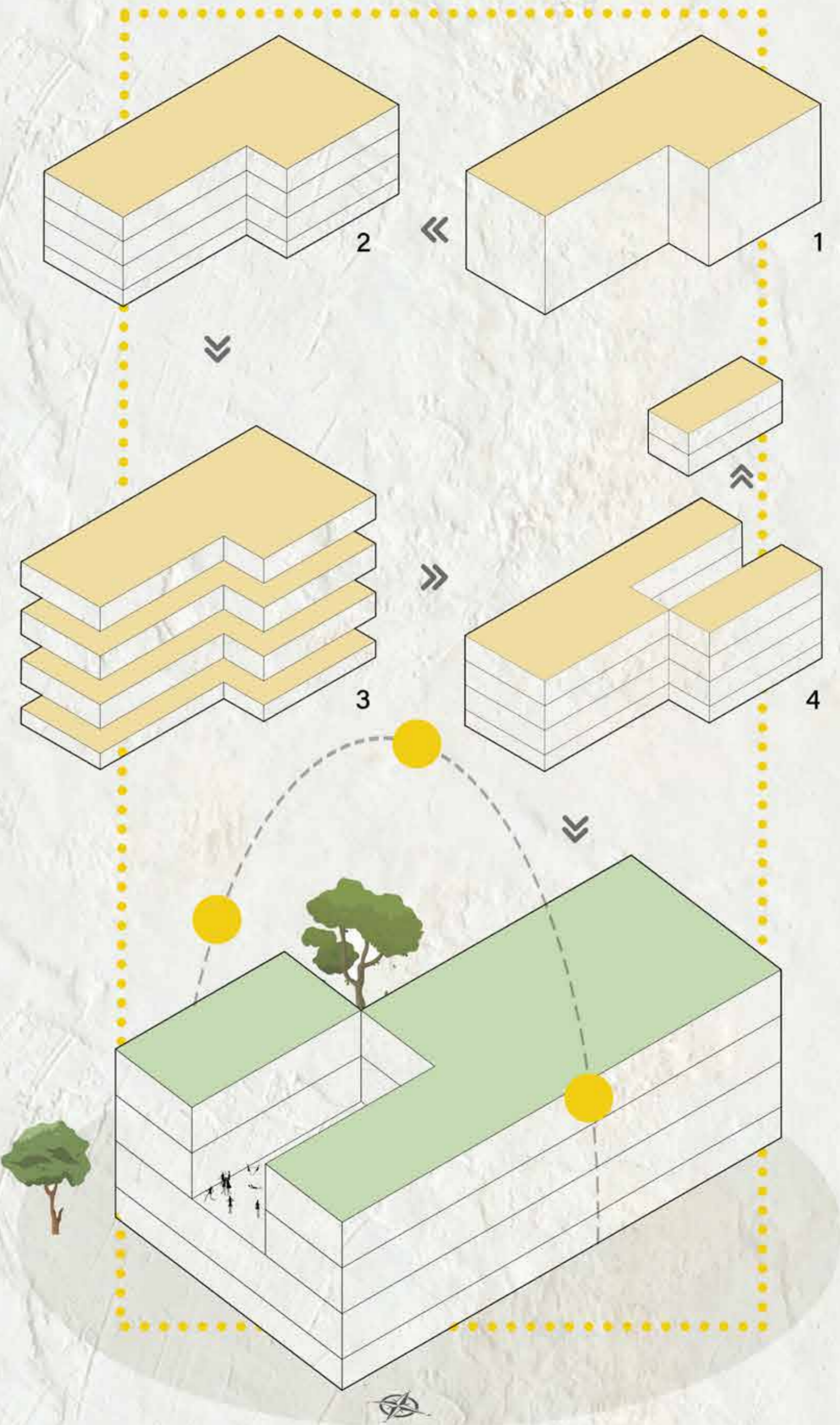
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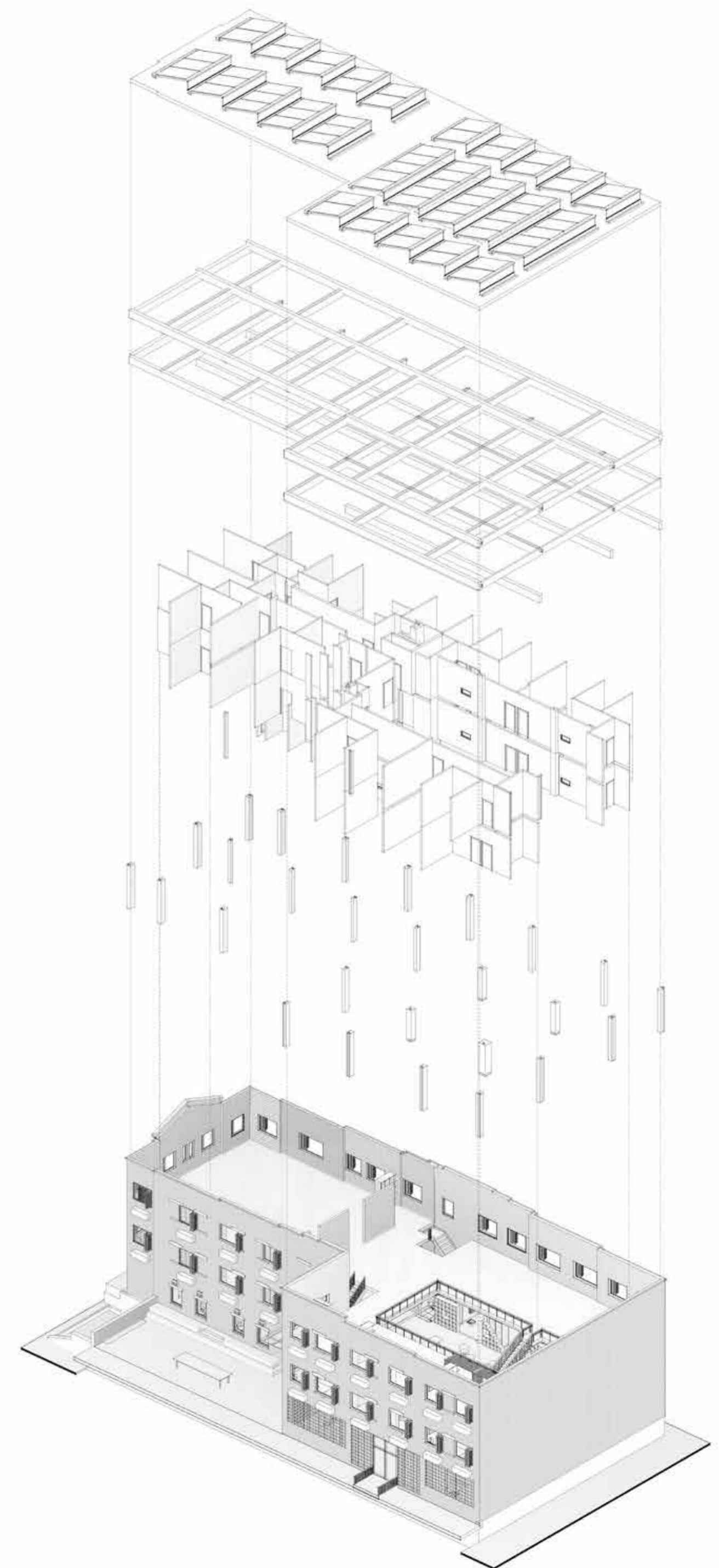
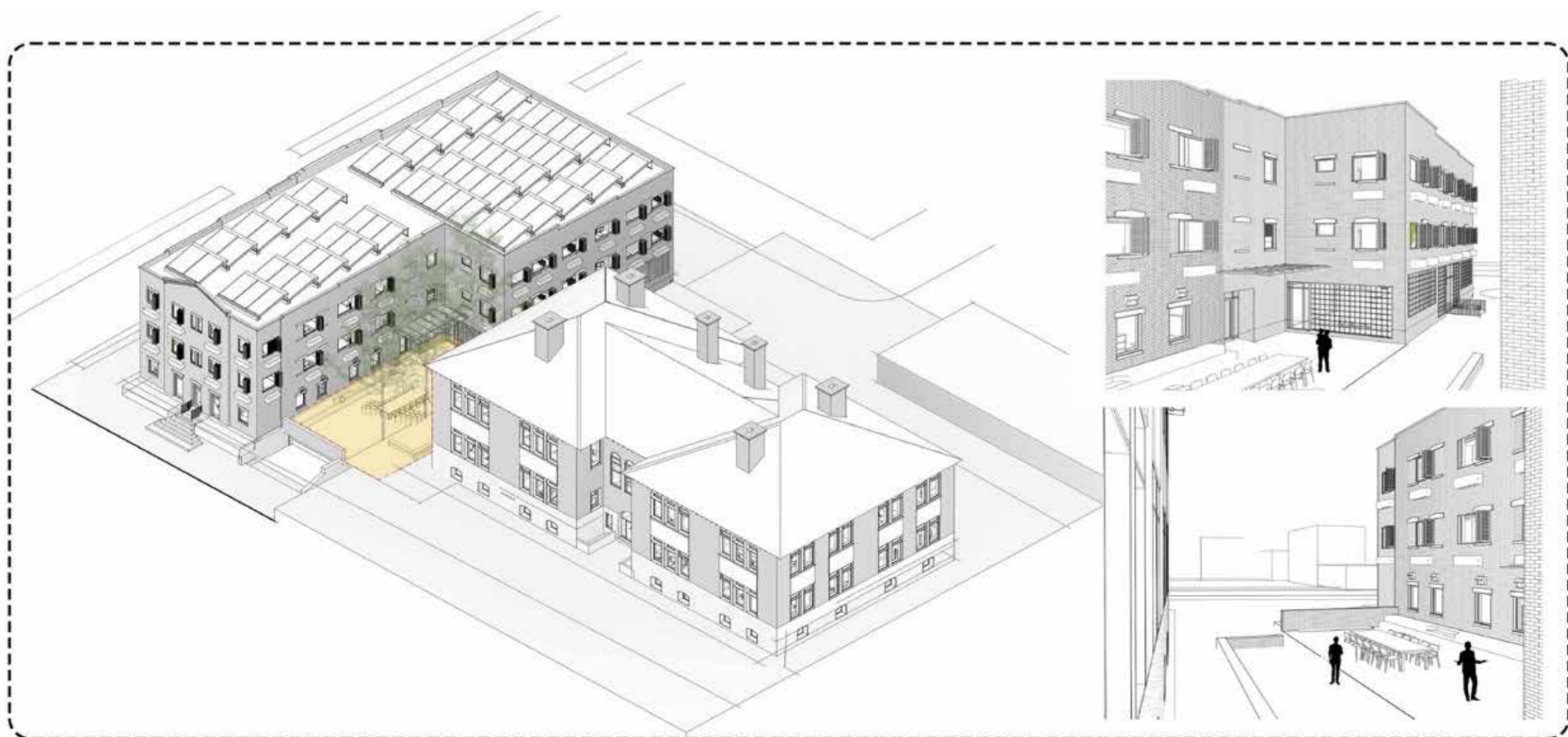
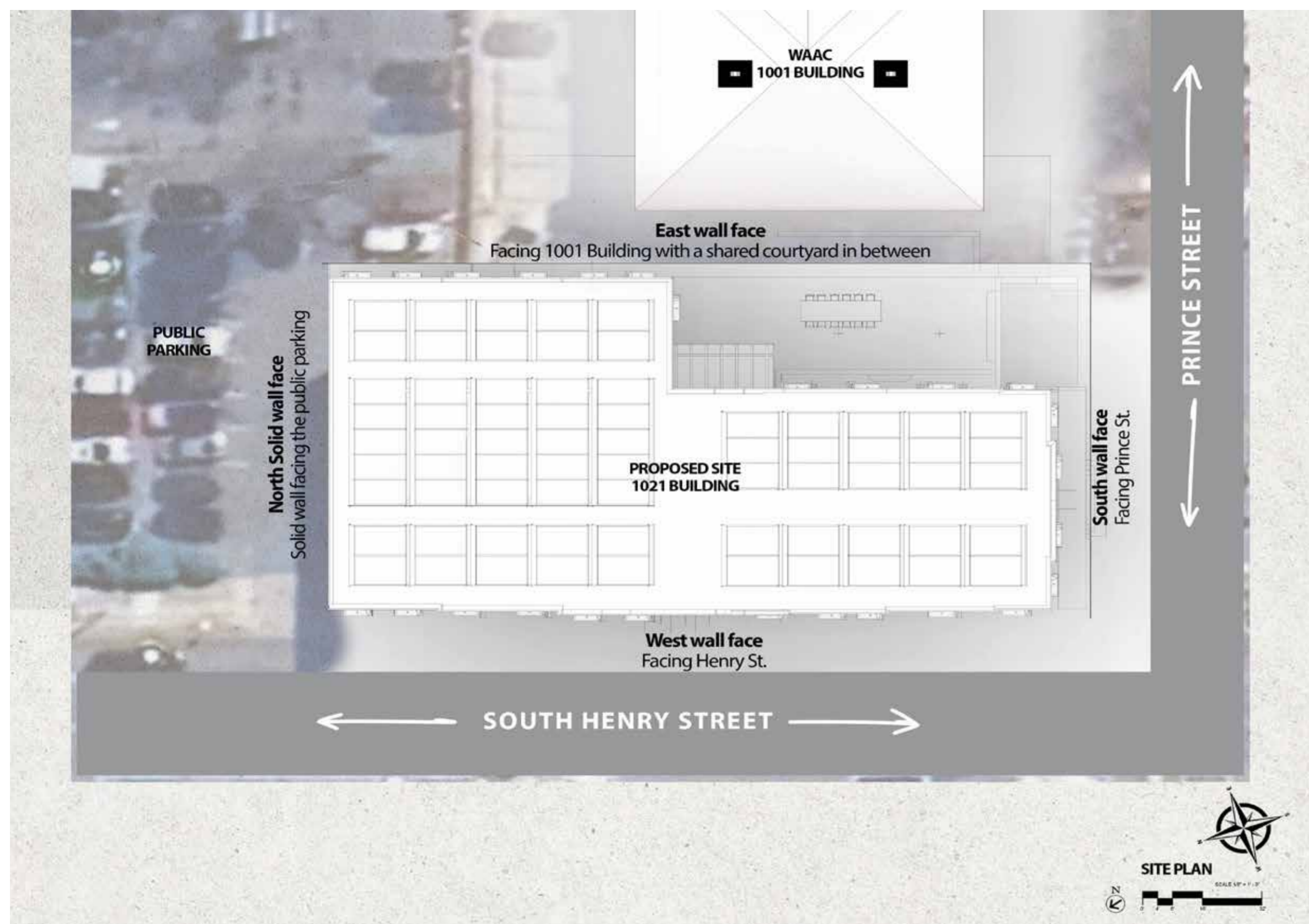
Mental health
Indoor outdoor events
Atrium (Heart of the building)

D

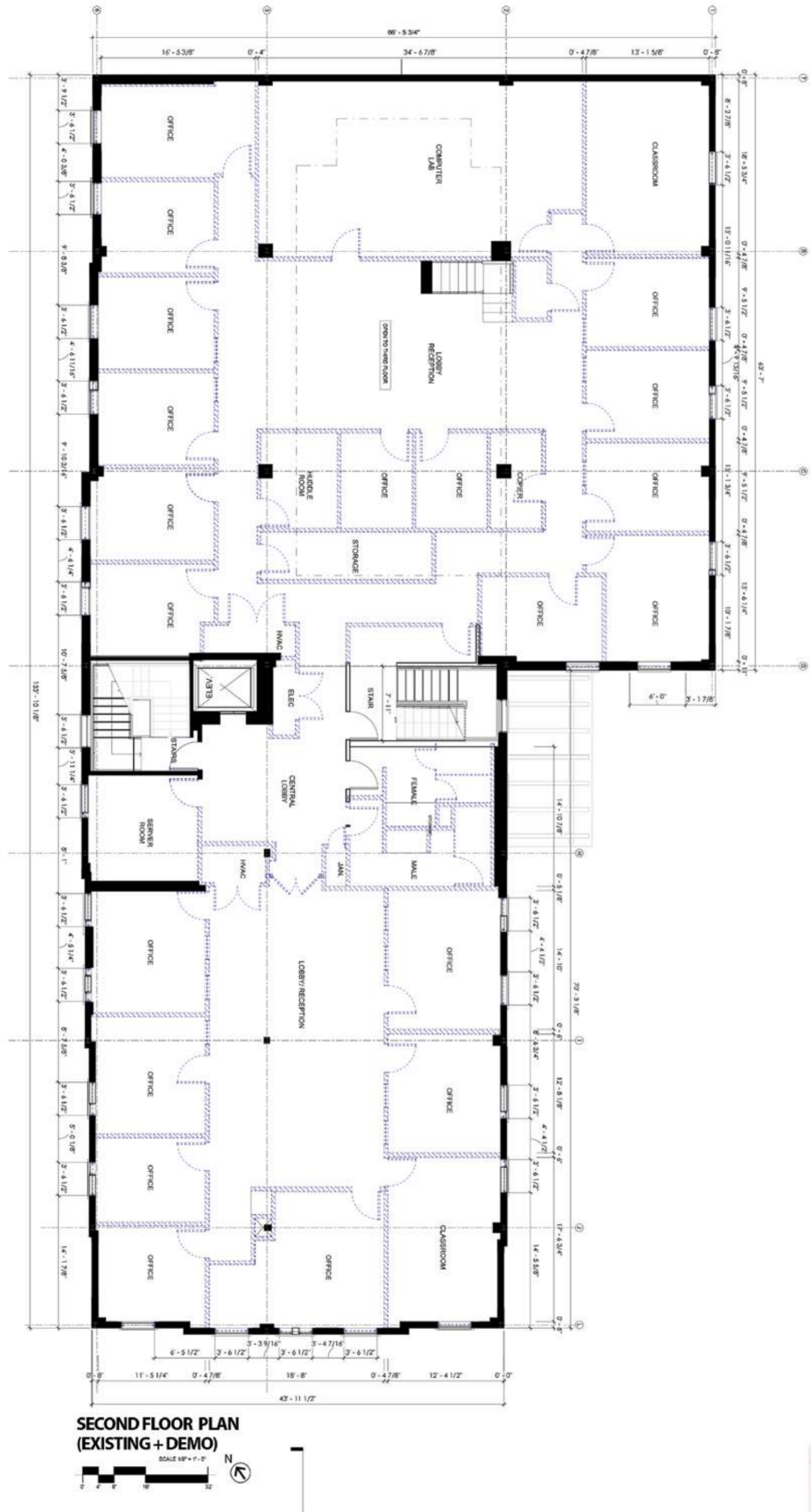
Adaptive reuse
Cost saving
Sustainability
Preservation of Architectural heritage (Floor 1)

1001 building



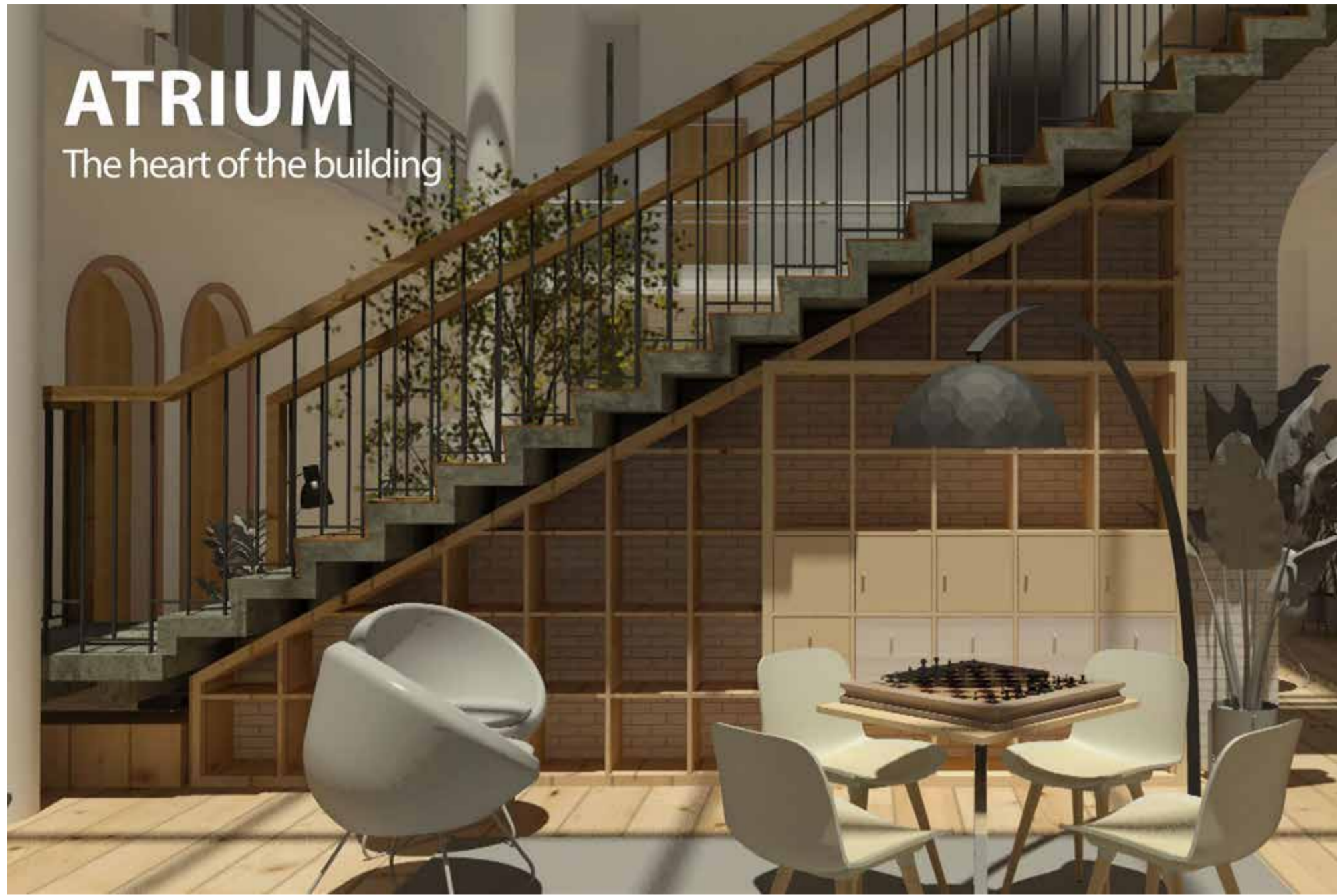


Proposed design program - 8 Units and Atrium



ATRIUM

The heart of the building



SOUTH ELEVATION (PROPOSED)

SCALE 1/8" = 1'-0"



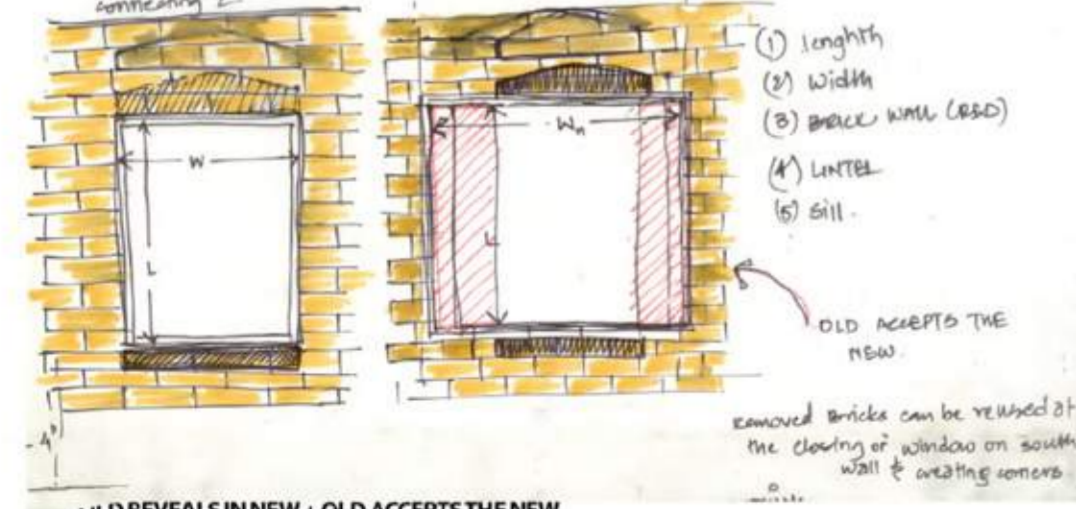
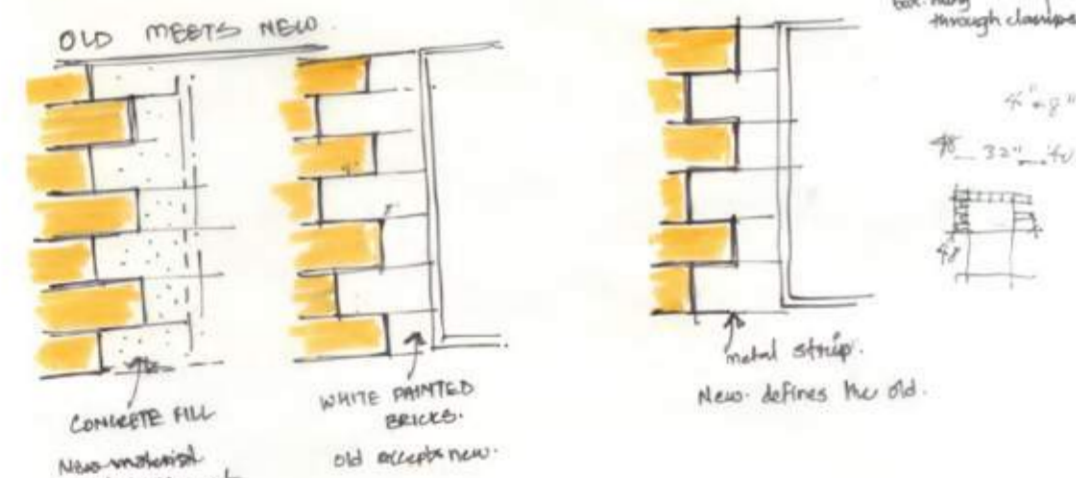
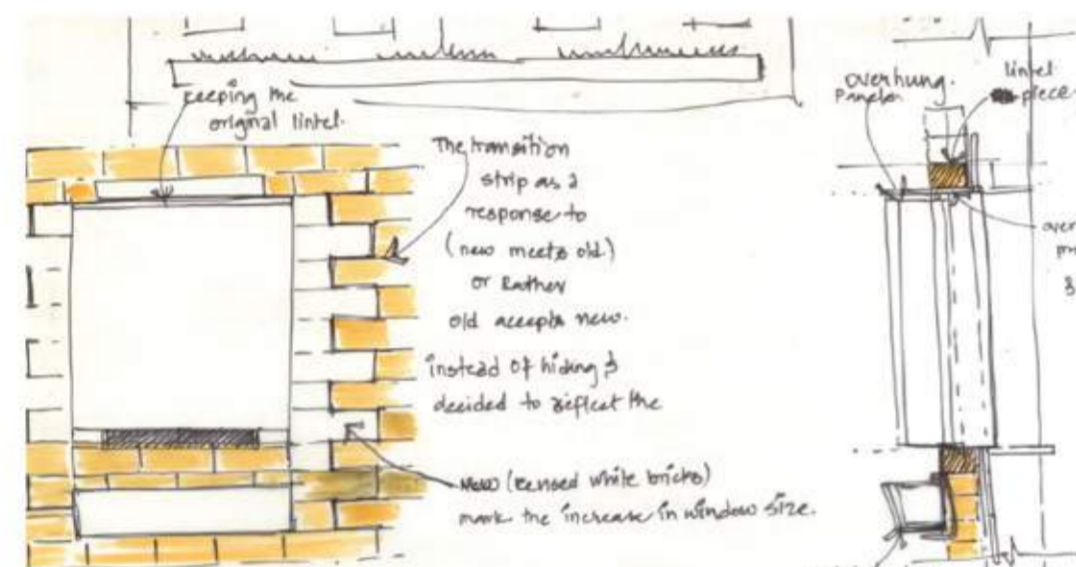
SOUTH ELEVATION (DEMO LISH + PROPOSED)

SCALE 1/8" = 1'-0"

Window Decisions: Old Accepts the new

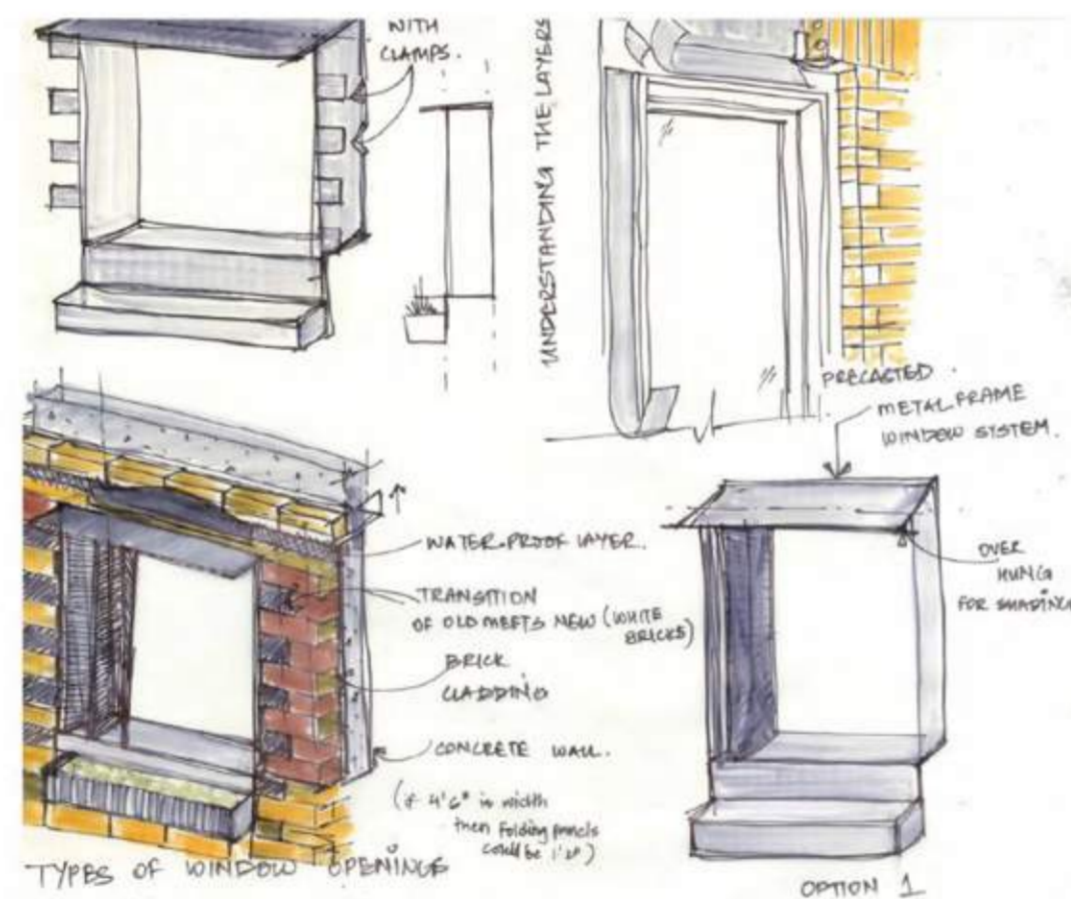
The facade holds a great significance to the project and its identity. When removing the window opening the brick has a risk to collapse and so the new window frame with slight shade projection on top can act as a construction move to support the brick from top frame. It ends up carrying the physical weight of the column. Keeping the sill and lintel same height and change in width based on the program designed now. (Living room/Bedroom). The windows are also now reflecting the white bricks as a transition joint where the old speaks through the new.

These are also categorized based on window type from awning window, fixed, sliding folding window, then based on the new window opening the planter box is proposed. The planter box is hanging through the 'metal clamps on the brick clad wall. The bathroom window is reduced to half size awning window with glass brick in the remaining portion to let the natural light in.

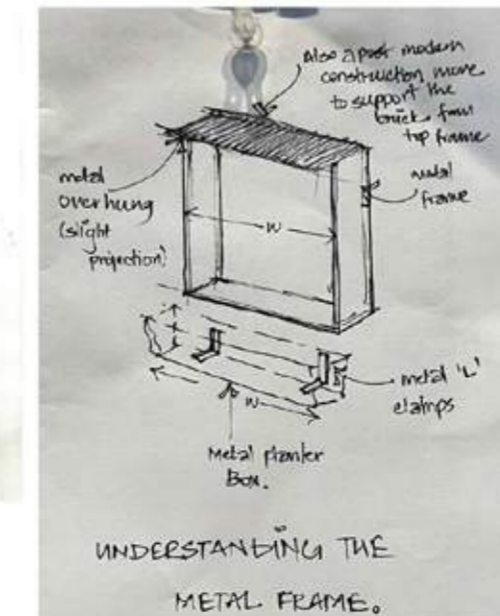


OLD REVEALS IN NEW + OLD ACCEPTS THE NEW

By integrating new window frames with the old brick structure. A transition strip through white bricks and the original position of Lintel and Sill piece reflects the building's transition from old to new

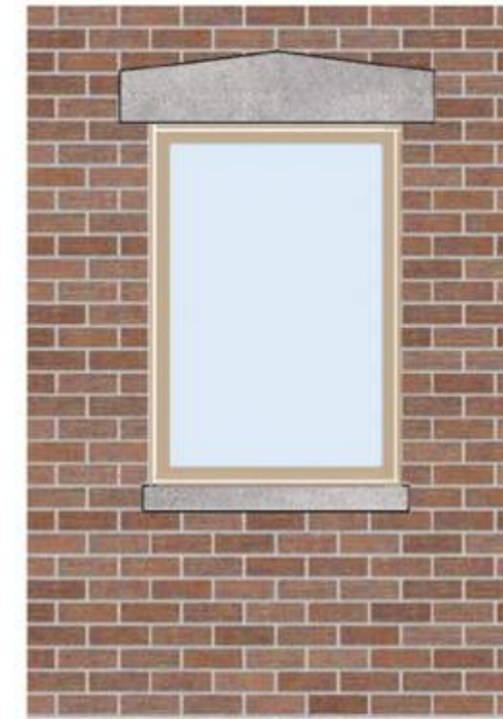


- TYPES OF WINDOW OPENINGS
- 1 - 4'6" - NORTH WALL (COMPARABLE SLIDING FOLDING)
 - 2 - 6' - NORTH + E + W (11)
 - 3 - 7'8" - EAST + W (11)
 - 4 - AWNING WINDOW (KITCHEN FACING ATRIUM)

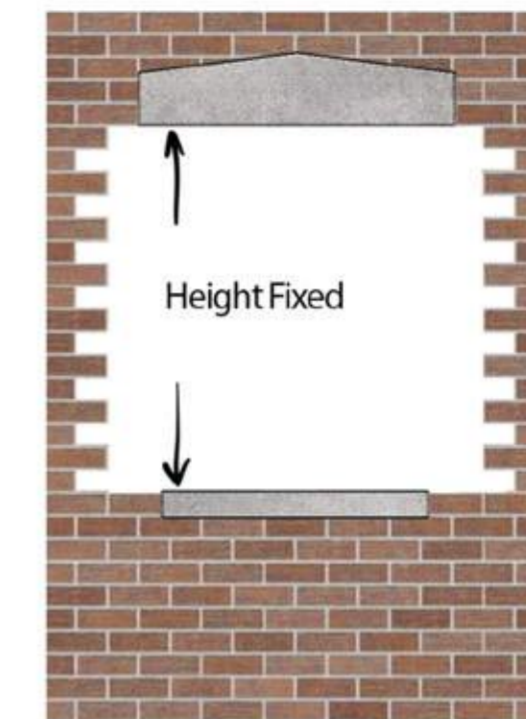


A1 - Existing Awning window

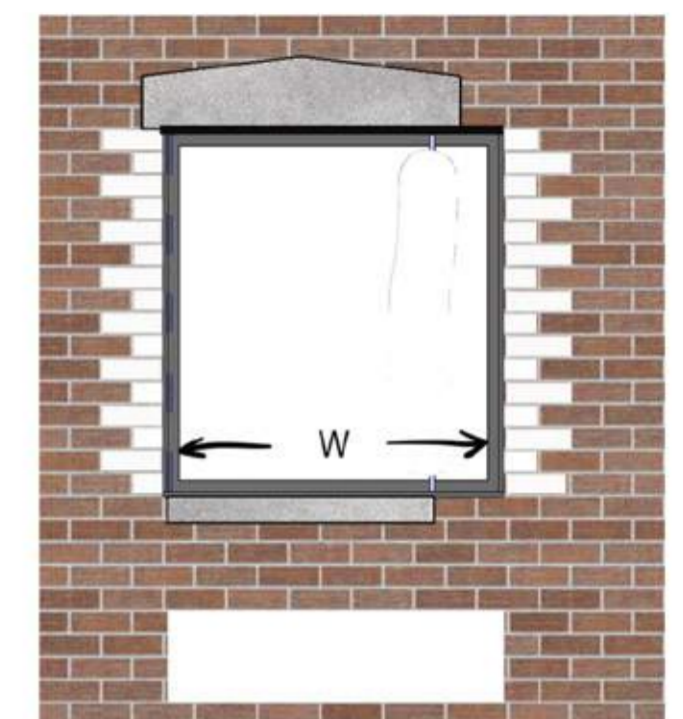
Partially Operable



Wall opening after the window is removed, keeping the sill and lintel same height

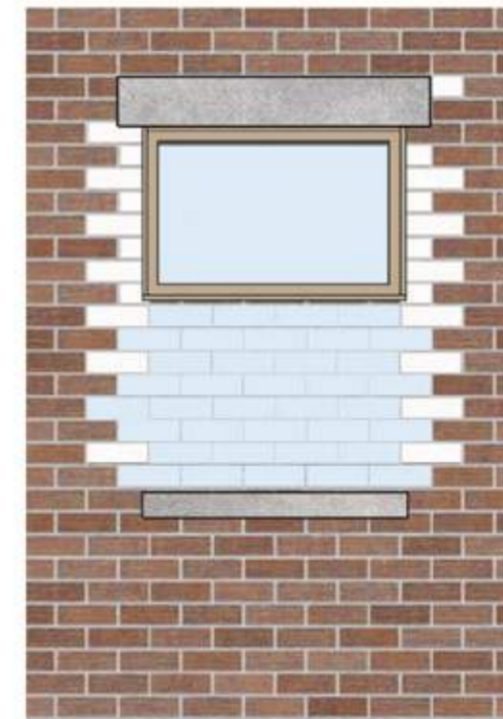


New window is introduced with metal frame and shading and wider jambs



A2- Awning Window with transition strip of white bricks

Partially Operable



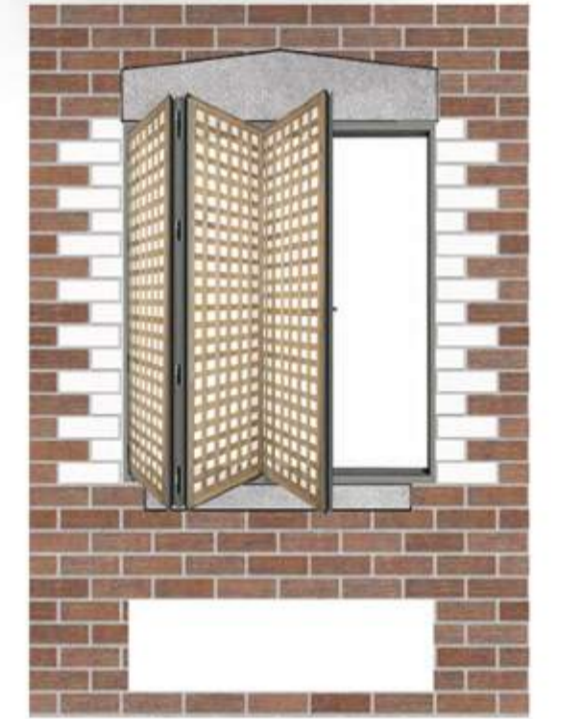
A3 - Fixed Window

Not Operable



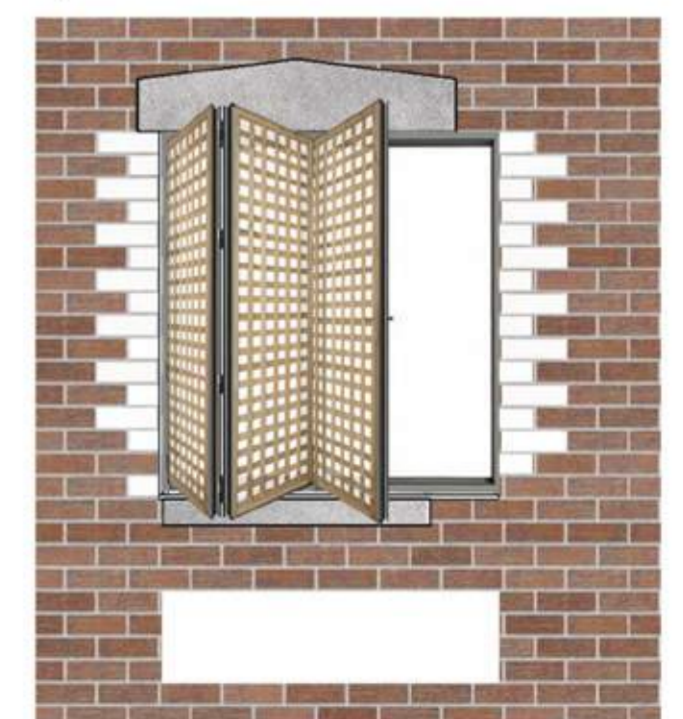
A4 - Sliding Folding Window

Operable Window



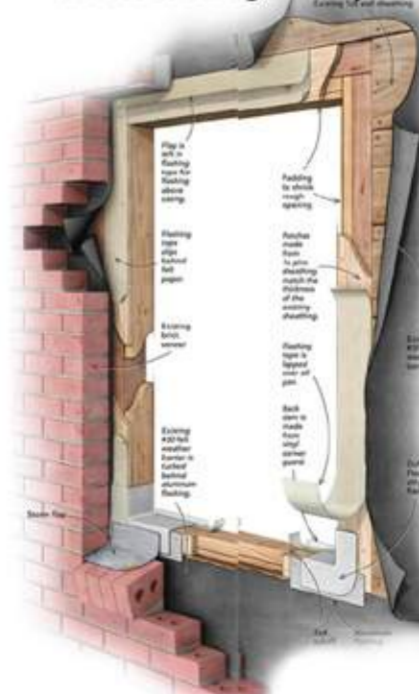
A4.1 - Sliding Folding Window (offset)

Operable Window



Crafting the process of window placement where the old accepts new this is shown through white bricks.

Understanding the Layers



Source: firehomebuilding.com

OLD REVEALS IN NEW -

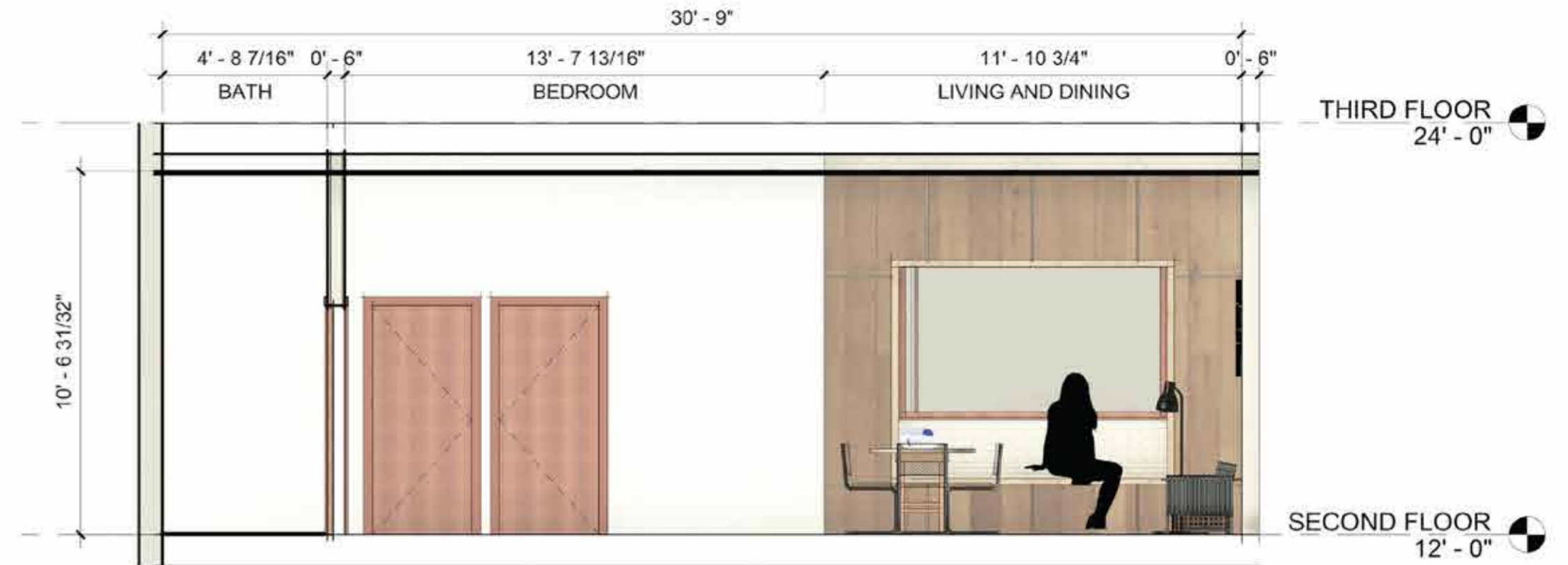
EXPOSED CONCRETE FLOORING IN BATH AREA
NEW HARDWOOD FLOORING IN REST OF THE AREA
GHOST LINES : A different grain or color of wood is used to create lines on the hardwood floor that trace the old wall positions.



UNIT PLAN A
SCALE 1/4" = 1' - 0"



NORTHEAST ISO



EAST ELEVATION
SCALE 3/8" = 1' - 0"



EAST ELEVATION
SCALE 3/8" = 1' - 0"



NORTH ELEVATION
SCALE 3/8" = 1' - 0"



BEDROOM VIEW

Nexus : Library

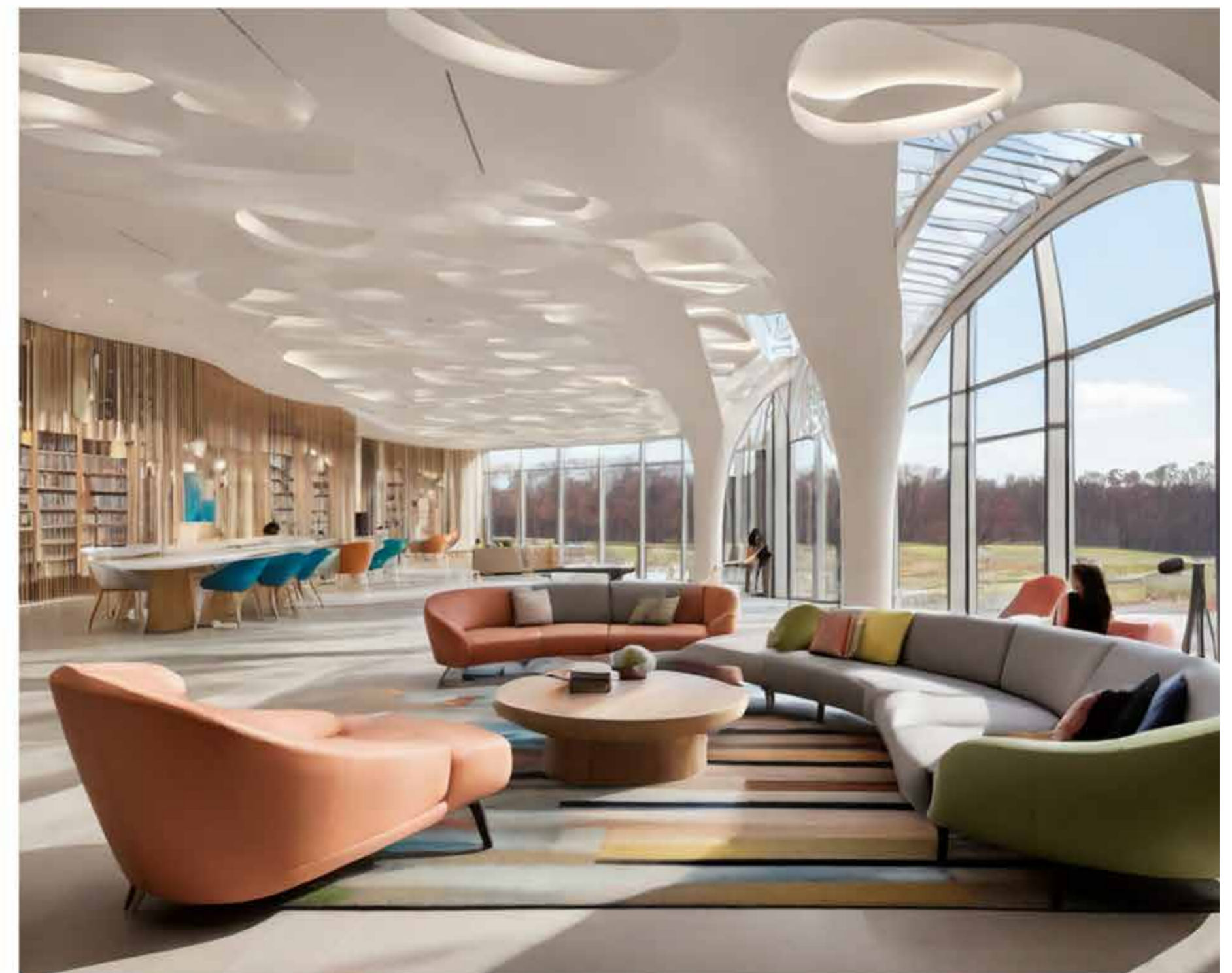
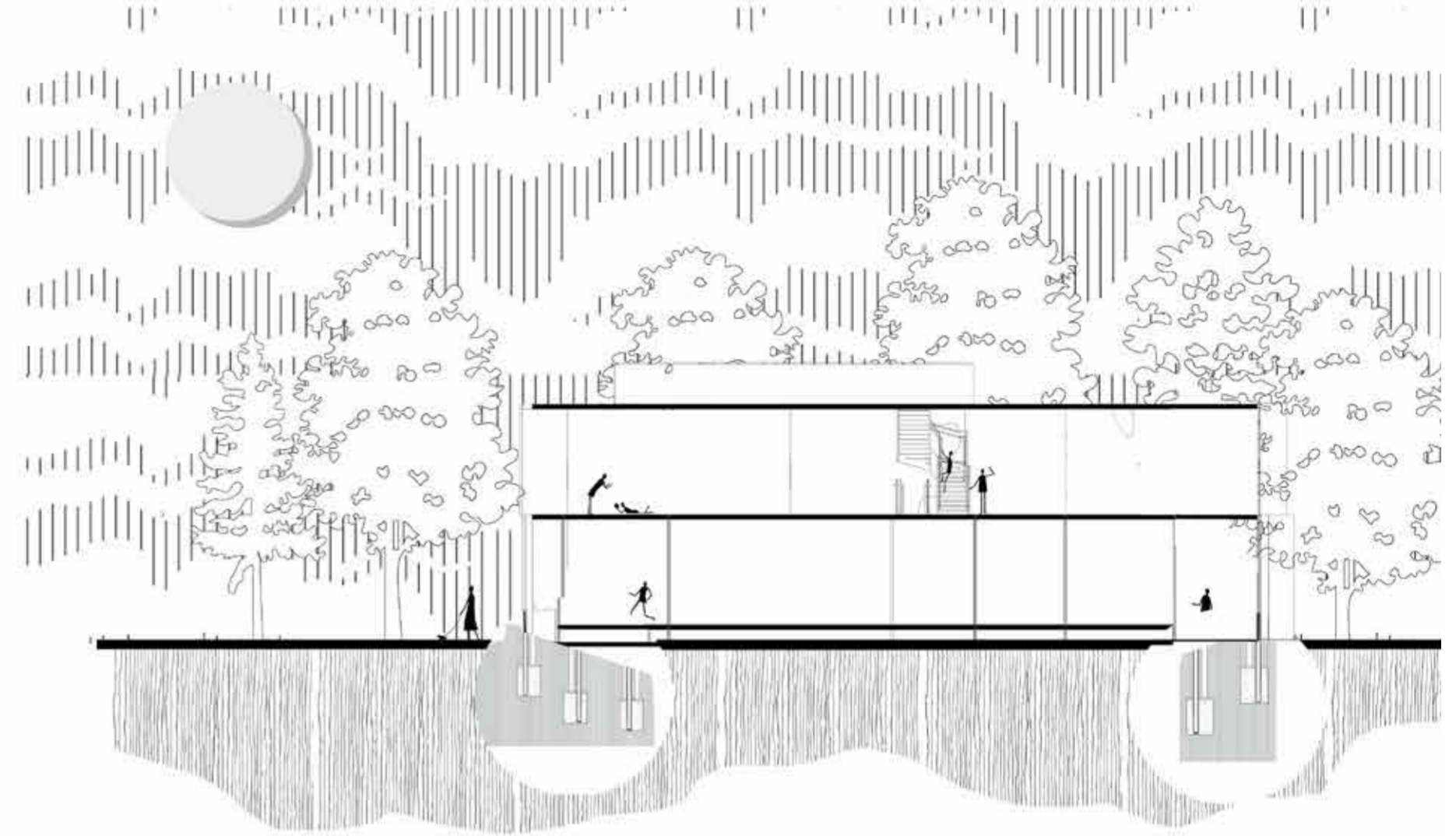
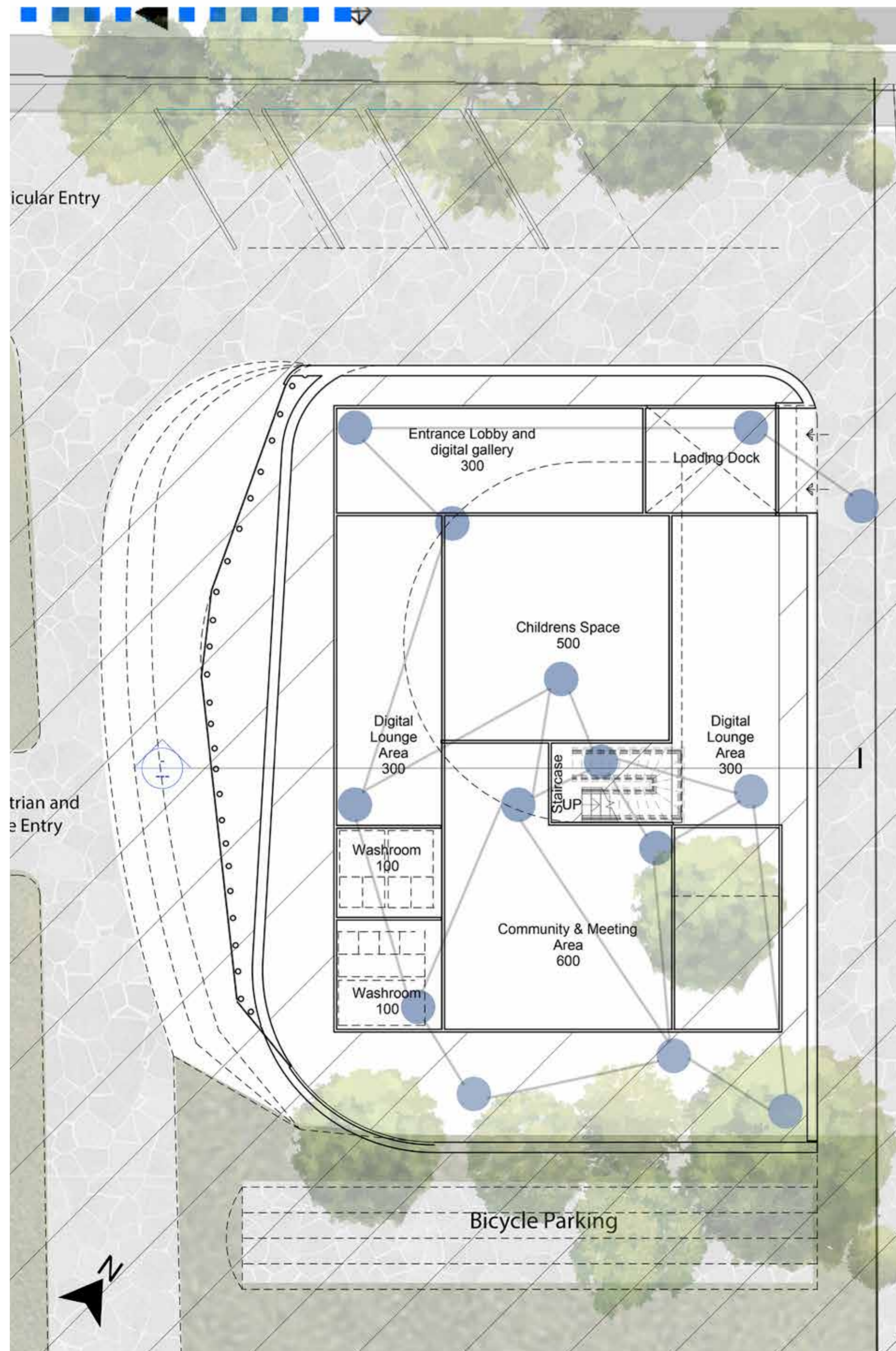
Connecting minds enriching lives

2023 - Phoebus, VA

This project challenges designers to create a “bookless” public library that serves as a vibrant community space. Instead of traditional books, the library offers digital services, Wi-Fi connectivity, and gathering spaces.

The design must blend indoor and outdoor areas, creating spaces for both individual and group activities. Special attention should be given to accessibility, future-proofing, and resilience against flooding. The goal is to design a welcoming, safe environment that integrates seamlessly with its site while embracing the evolving role of libraries in the digital age.





Panchbhut

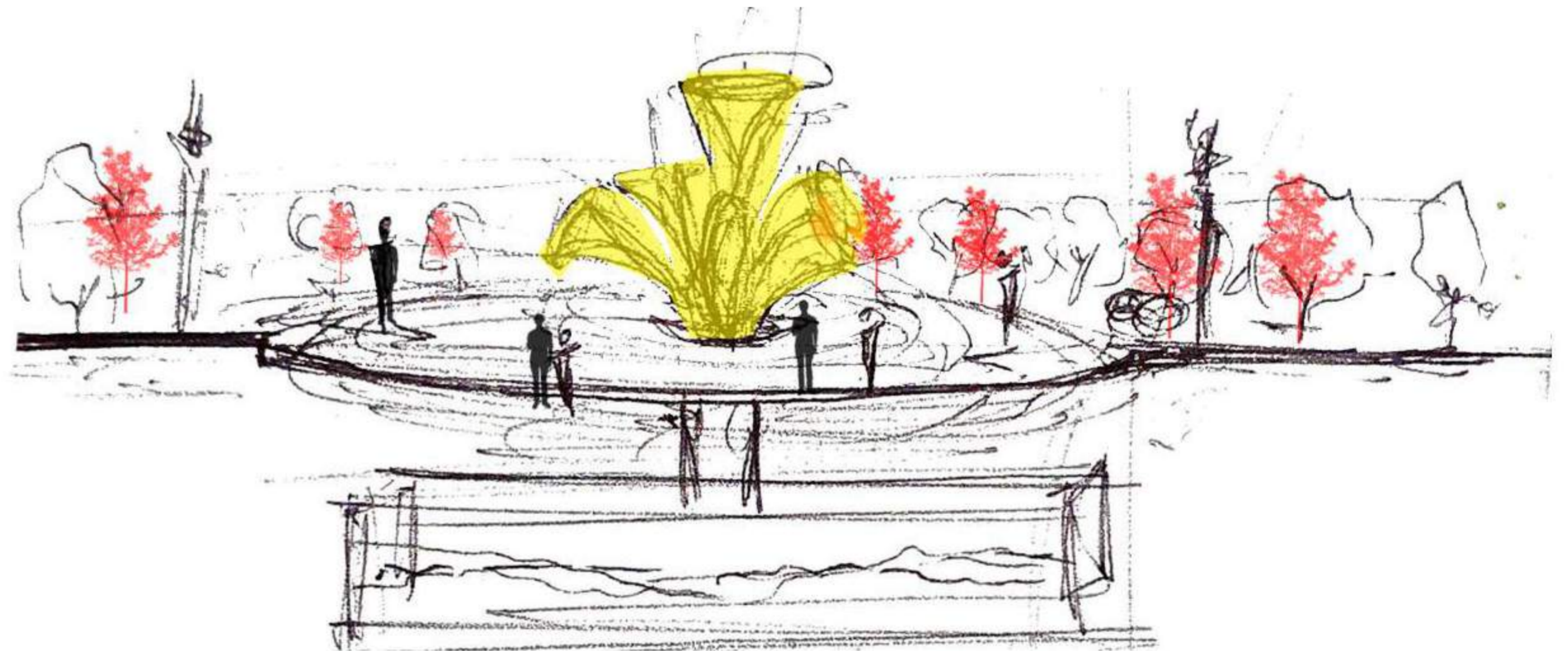
Revive Recharge Reimagine soft street

2022 - Massachusetts Ave, VA

The design concept, "Panchbhut" meaning 5 elements of life redefines the urban core by addressing congestion and traffic issues while fostering a vibrant and inviting neighborhood atmosphere. Through innovative strategies inspired by these elements of life.

The aim is to transform the streetscape into a hub of sustainable energy generation and community engagement. By integrating renewable energy elements seamlessly into the urban fabric, the approach not only enhances the functionality of the space but also promotes social interaction and well-being.

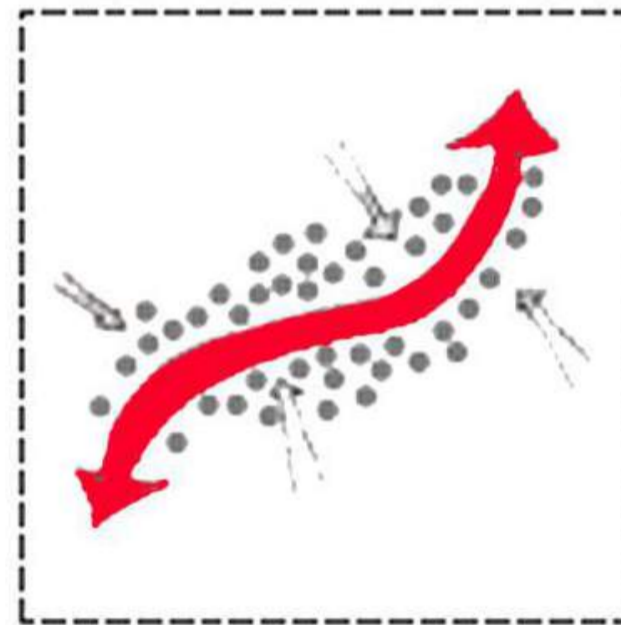
Through collaboration with local stakeholders, street artist and a focus on balance between aesthetics, functionality, and sustainability. The proposed design sets a new standard for urban design, creating a neighborhood that is both comfortable to inhabit and lively to experience.



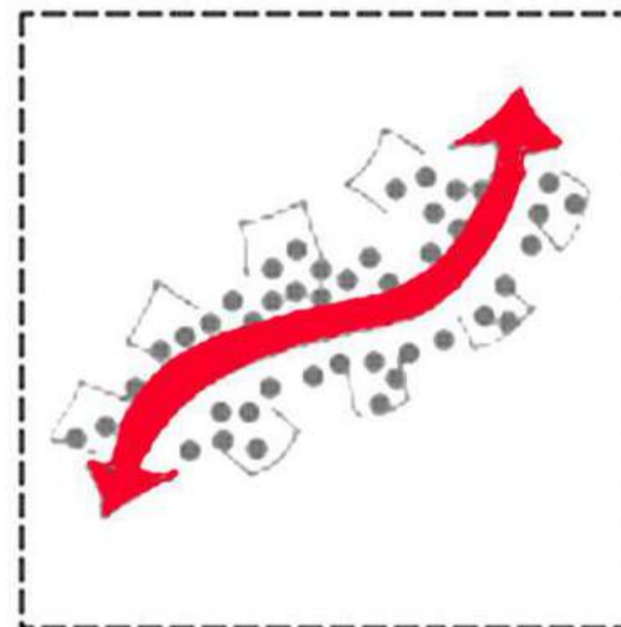
CONCEPT



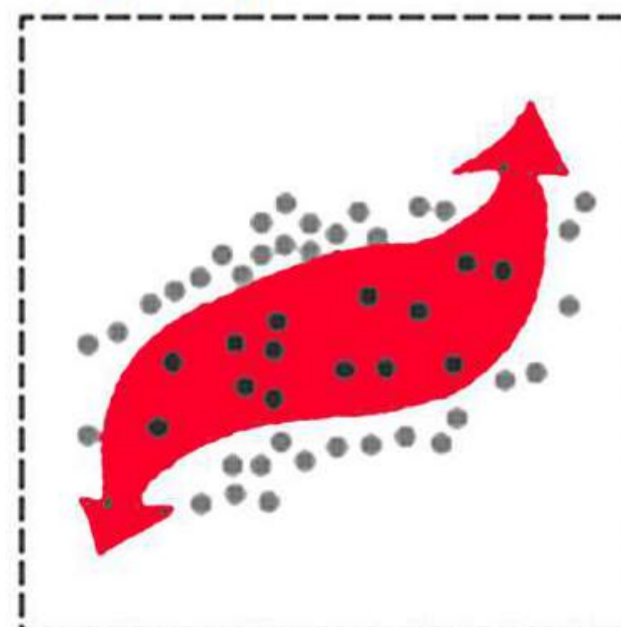
To assemble



To invite

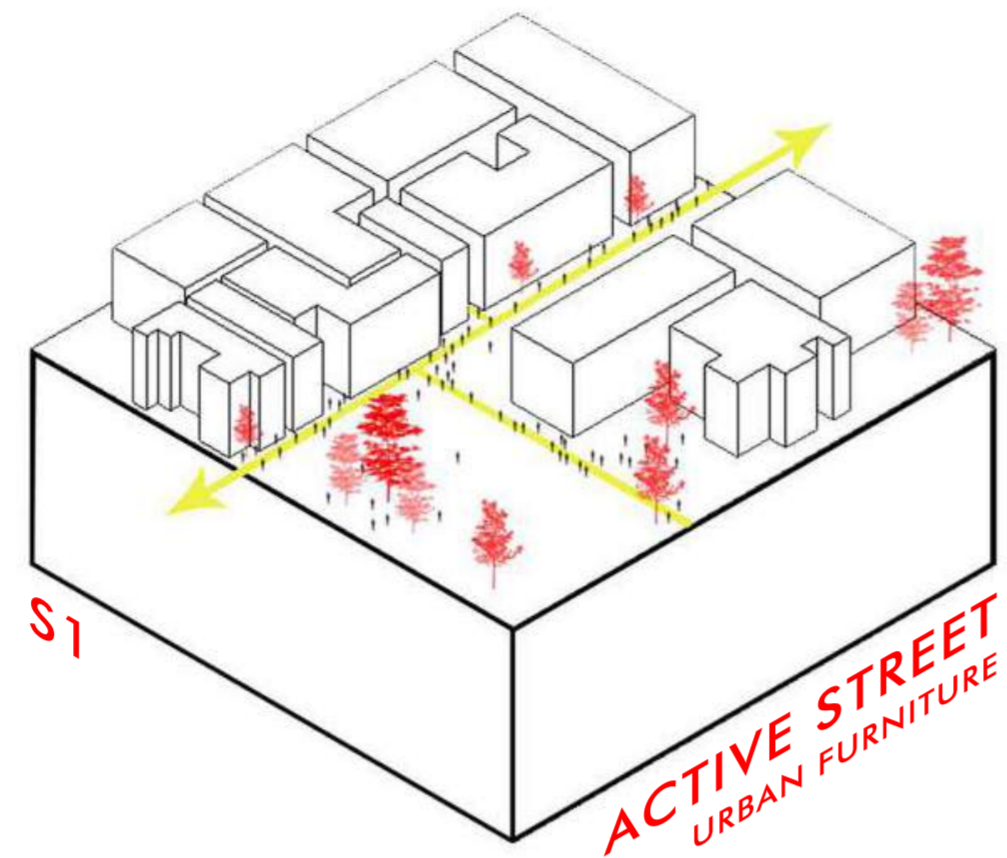


To open up



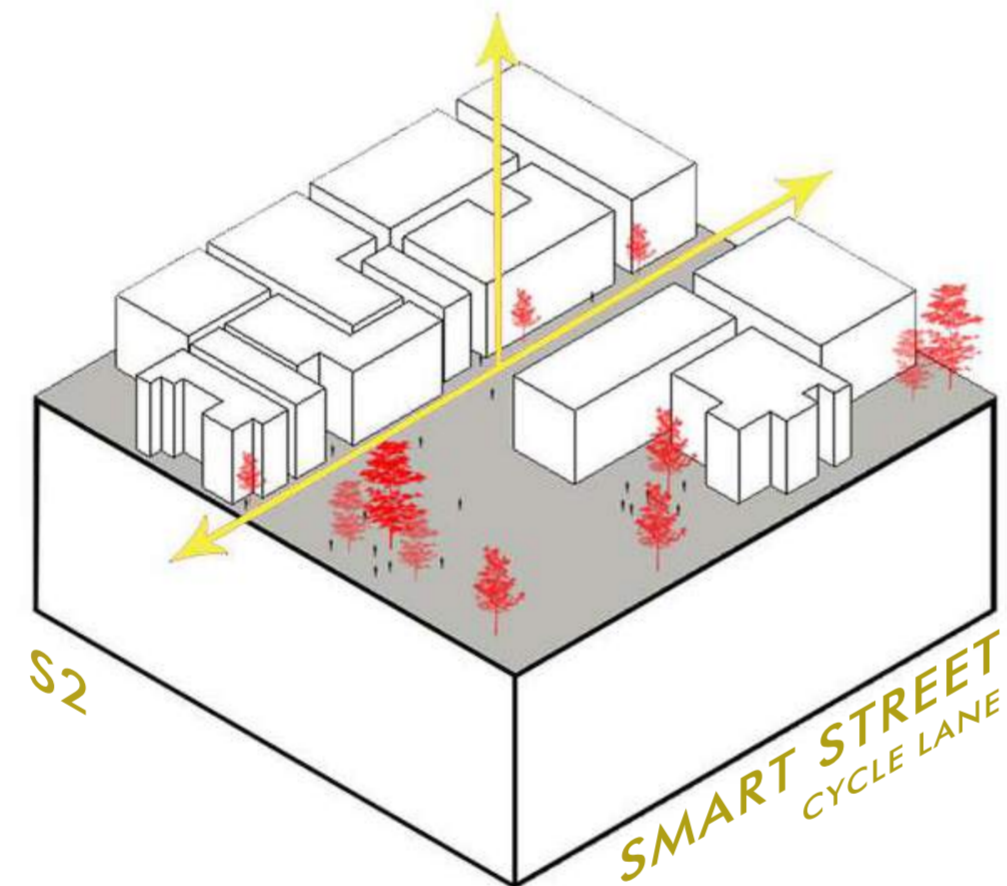
To increase

ENERGY LOOP



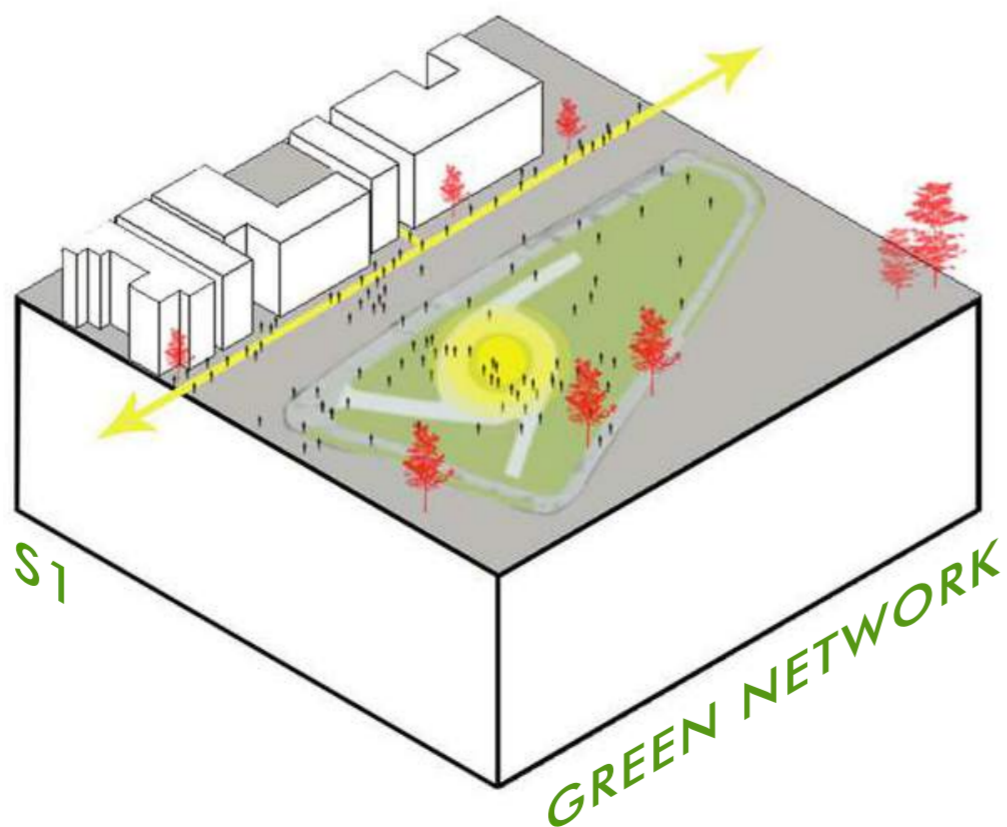
S1

ACTIVE STREET
URBAN FURNITURE



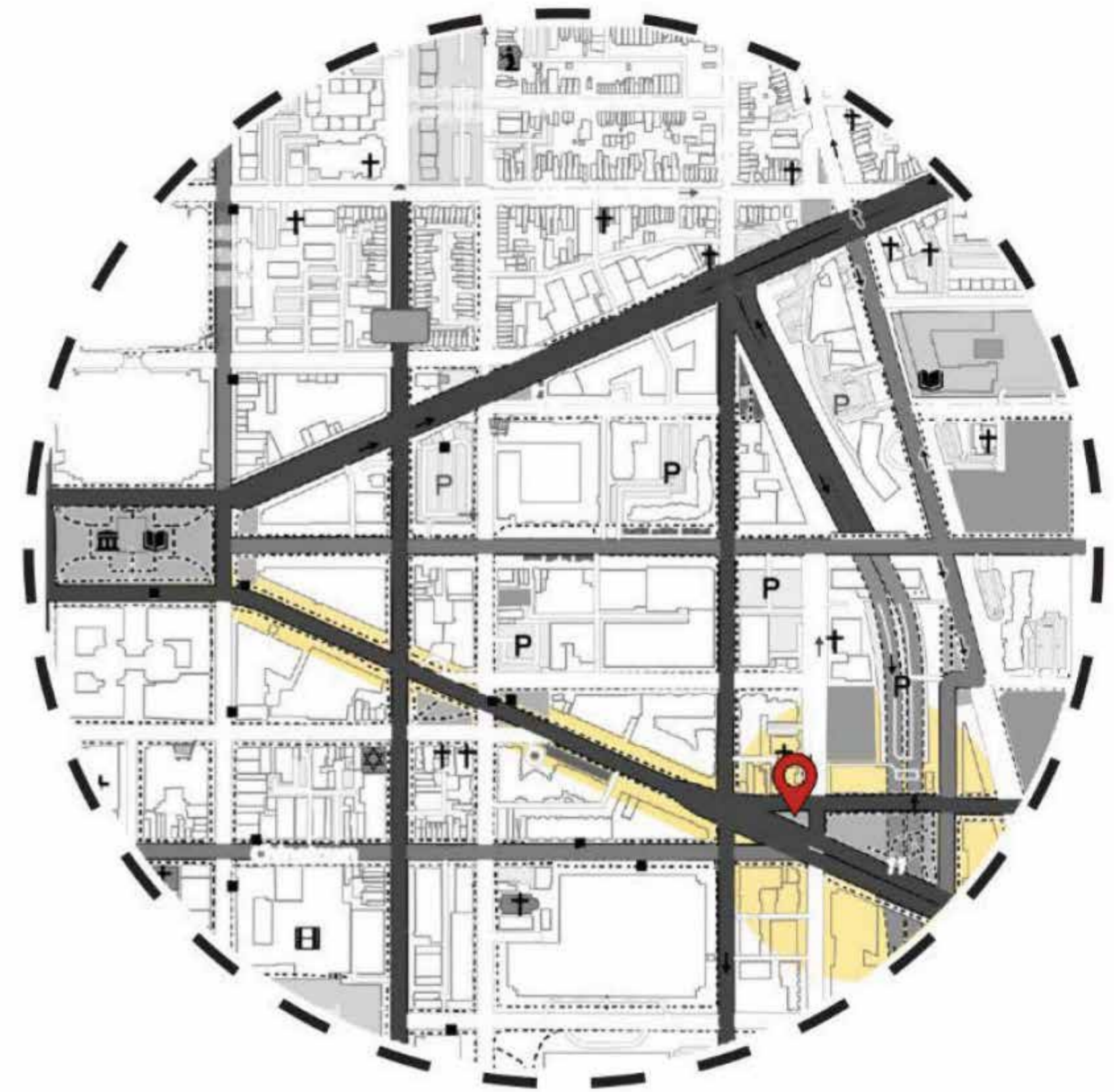
S2

SMART STREET
CYCLE LANE

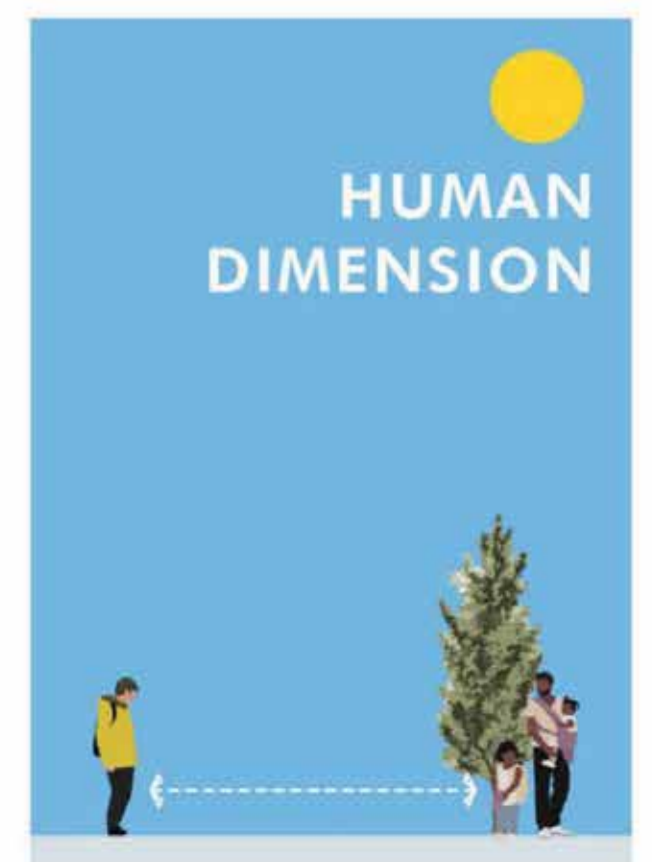
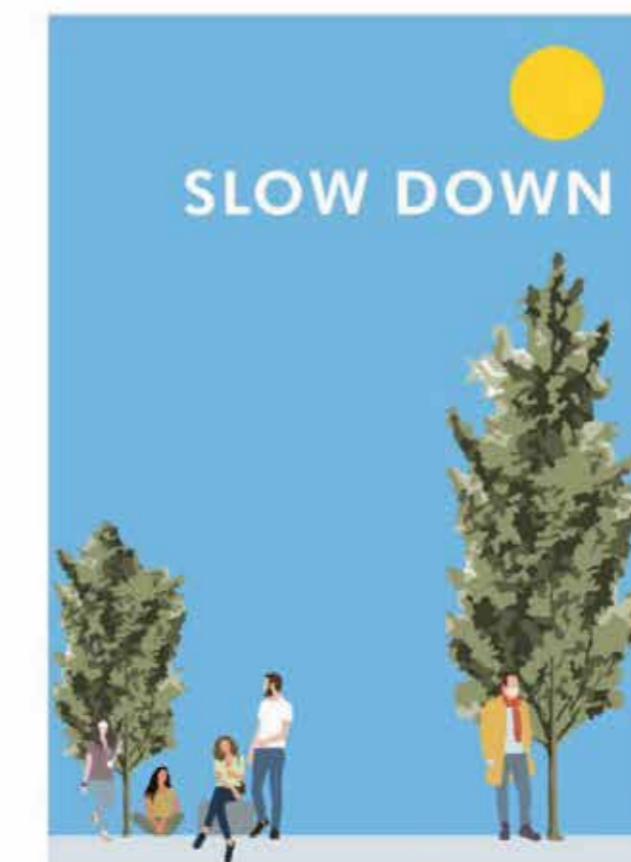


S1

GREEN NETWORK



Form Development | Three ideation based on street level





Utilising wider pedestrian zone

the wider pedestrian zone adjacent to the building fronts. Slower strolling, window shopping, outdoor dining, resting, and street performances are encouraged. Separated from the Promenade and vehicular traffic by a thick planting zone, the Meander offers a generous, flexible, semi-secluded, yet actively animated urban pedestrian environment.



Cycle lanes around pedestrian lane

Providing the residents and visitors with sustainable mode of transit and reducing the traffic load. Activities like cycling, walking, jogging, and rollerblading allow efficient pedestrian travel through the Mass Ave busy commercial, mixed used district.



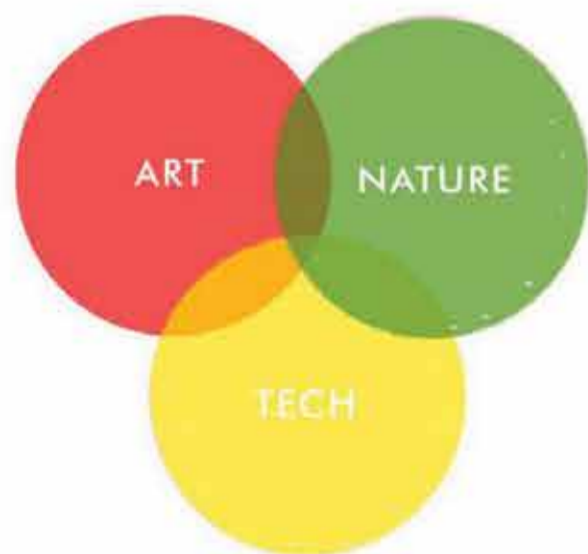
High-visibility attractive crosswalk:

Woonerf graffiti promoting the artist and designers of DC. The idea is to involve local artist energising crosswalks and vibe along with empowering artist community.



Deteriorating quality of streetscape materials and character:

The idea is to revive the street character and utilize the existing landscape elements by introducing the active street pockets. That invites the pedestrian to sit and enjoy the city outdoors.



Detail plan

Detailed diagram of canopy with fixed colored acrylic panels



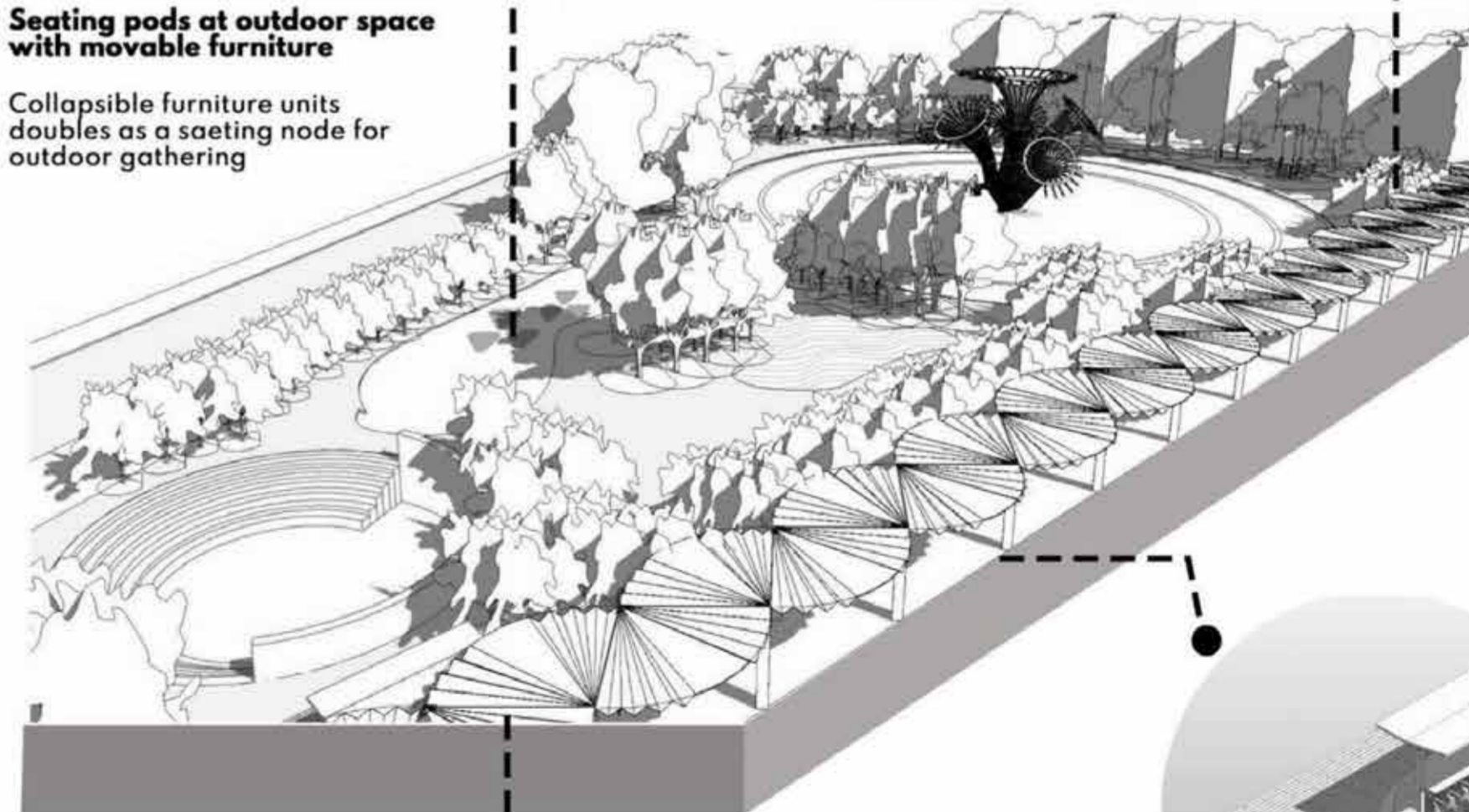
Seating pods at outdoor space with movable furniture

Collapsible furniture units doubles as a seating node for outdoor gathering



Solar surfaced canopy

Canopy with solar panels that help generates energy during day and provides shading on road



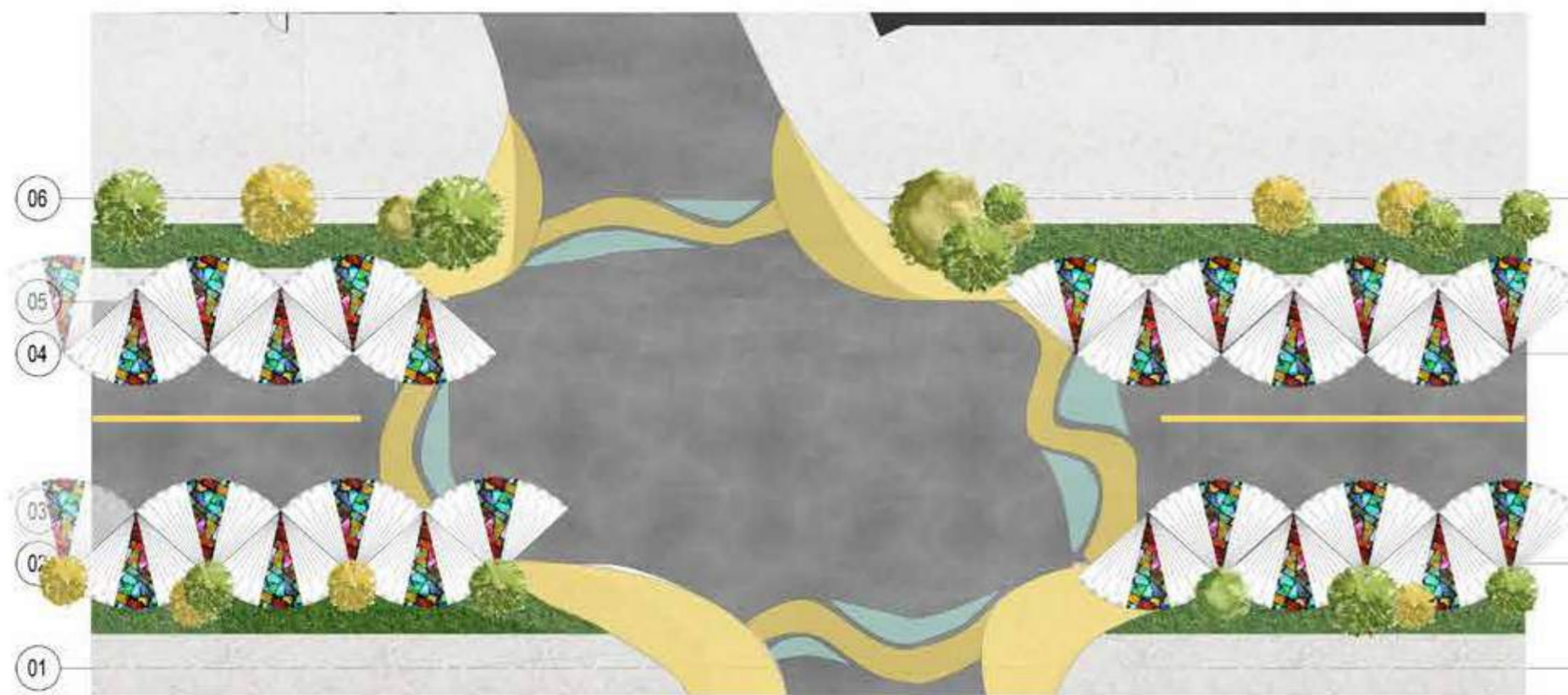
Shading canopy

The canopy is designed such that it provides shade during harsh sunlight and expands during monsoons to collect rain water.



Bike station with recharging units

The bike station with recharging units for bike. The station is designed such that it doubles as seating space



PLAZA DESIGN

Colored plaza configuration unifies the intersection while also responding to the unique conditions of each corner making it attractive. Maintain the openness.



WOONERF STREET GRAFFITI

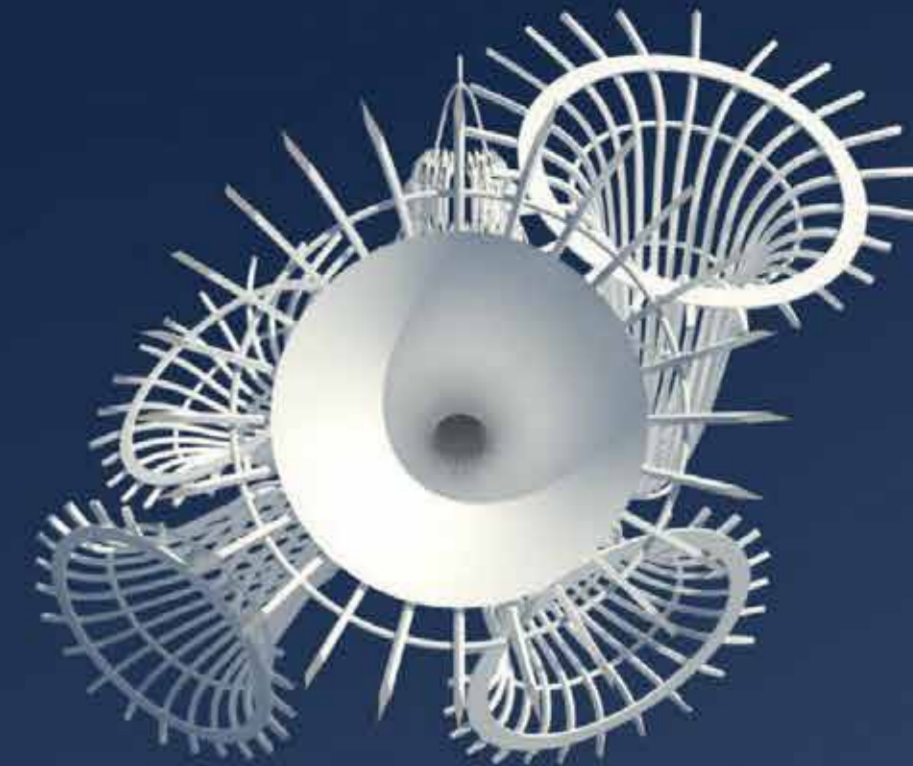
Woonerf graffiti promoting the artist and designers of DC. The idea is to involve local artist energising crosswalks and vibe along with empowering artist. community.



PANCHBHUTA

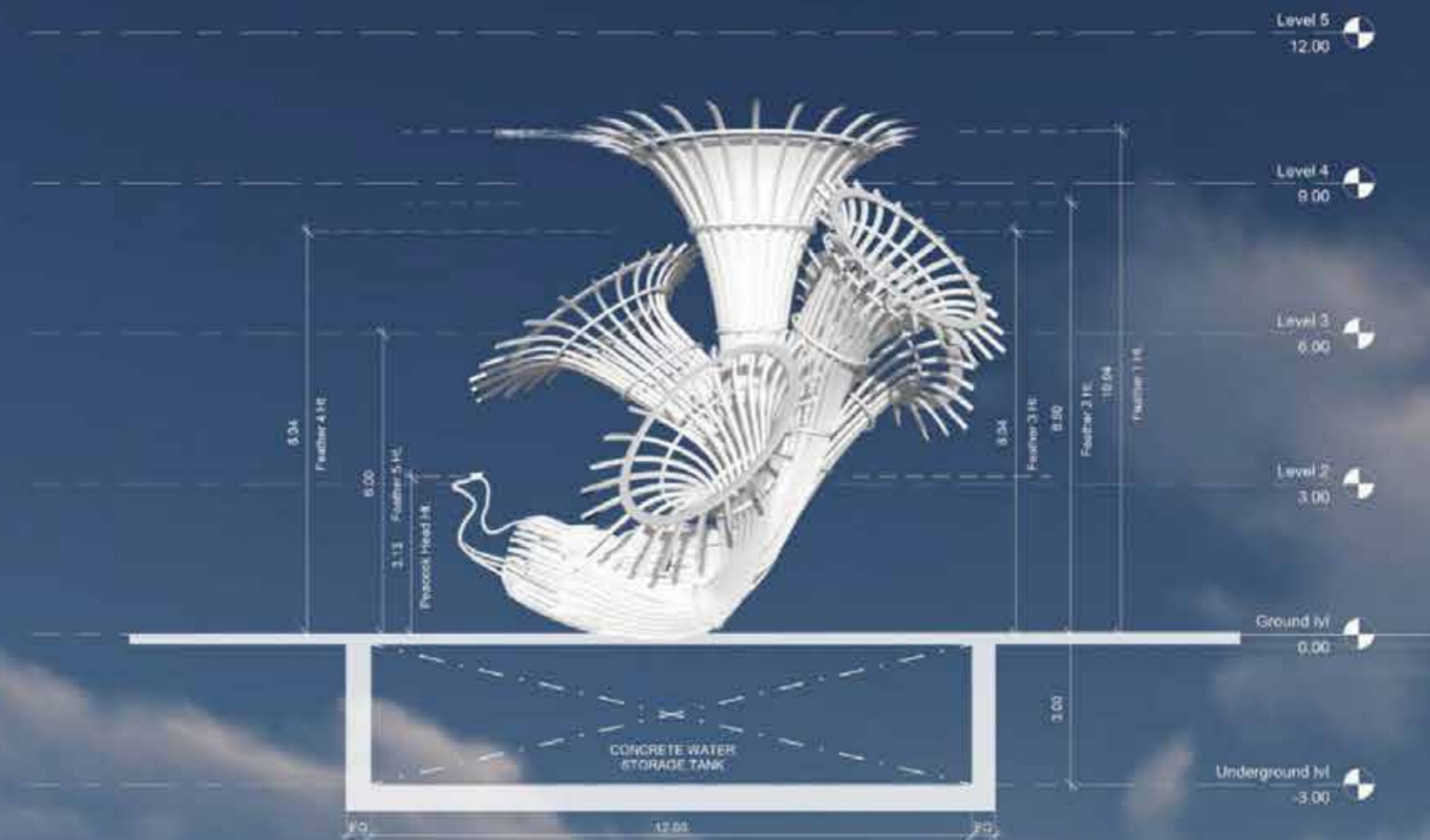
क्षिति, जल, पावक, गगन, समीरा

“Panchbhuta” denotes a peacock with five feathers, organically protruding at varying heights representing the five elements of life also known as *panchbhuta* — “क्षिति, जल, पावक, गगन, समीरा” — which inheres the properties of
 Earth (prithvi): The ground relationship between the sculpture and the earth
 Water (jal): The water it embrace from sky and conserves it under the earth
 Fire (tejas): The sun which helps generate solar energy and also lights the structure
 Wind (vayu): The wind, which when blows creates a subtle acoustic sound
 Space (akash): The open sky relation makes it stand out and embrace the universe



DETAILED SECTIONAL ELEVATION

ROOF PLAN



Holiday Activity Space | Club Mahindra

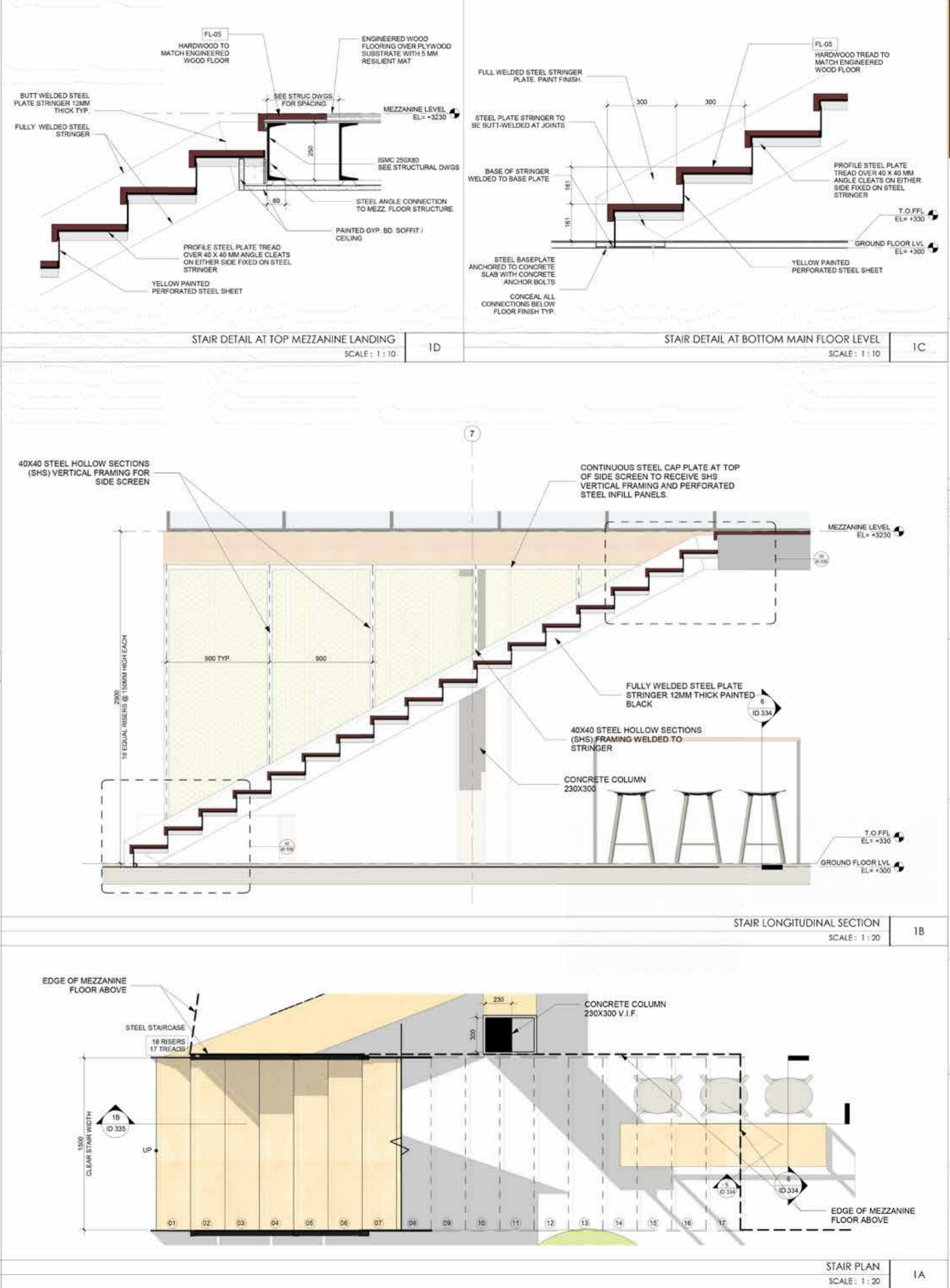
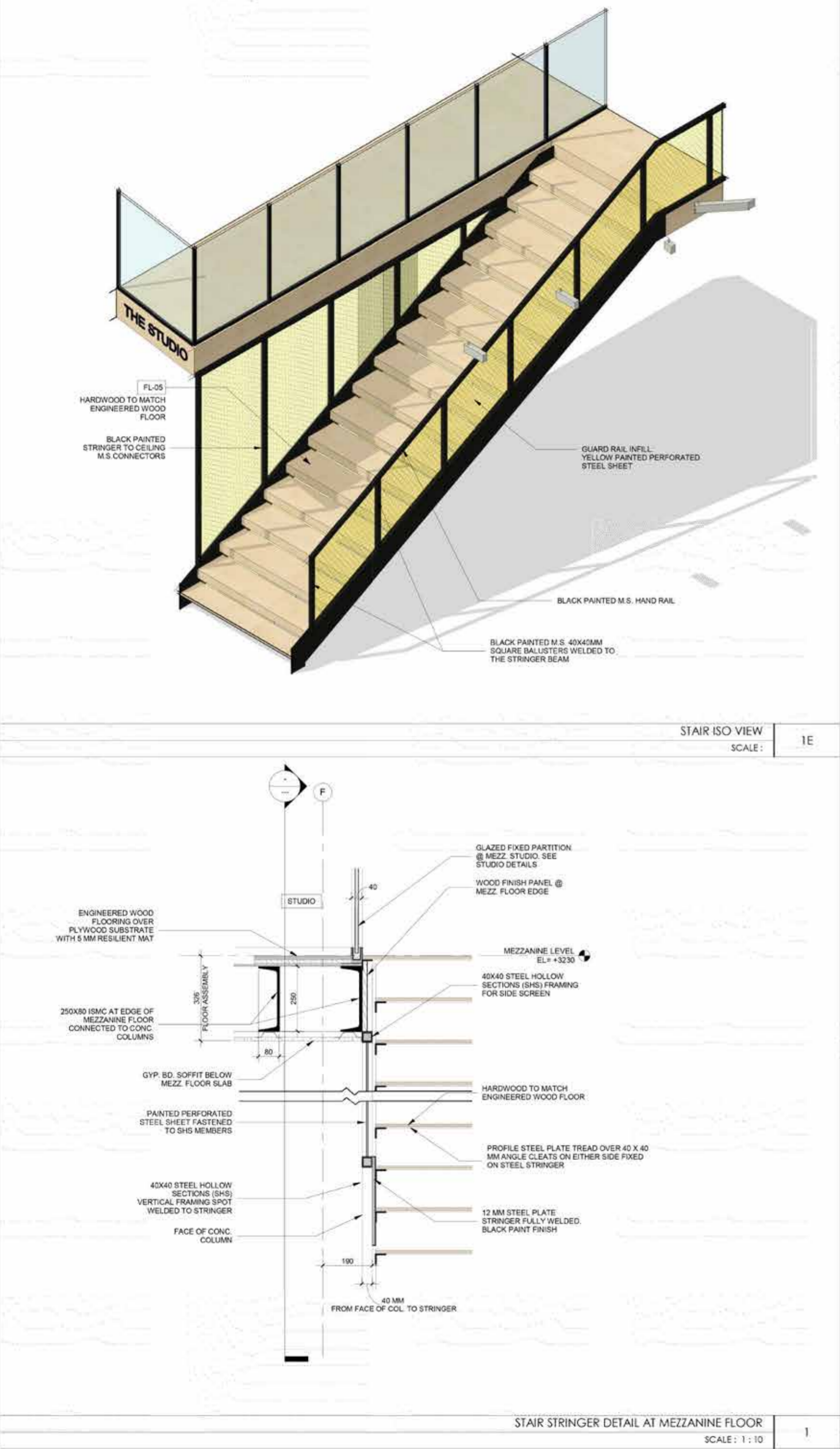
Club Mahindra Holiday Home

2020 - Kerala, IND

This space for family entertainment & immersive experiences set in a traditional resort location was the overall space-planning for this re-imagined fun-zone was conceptualized as a deviation from the conventional XY grid prevalent in other interior spaces of the resort.

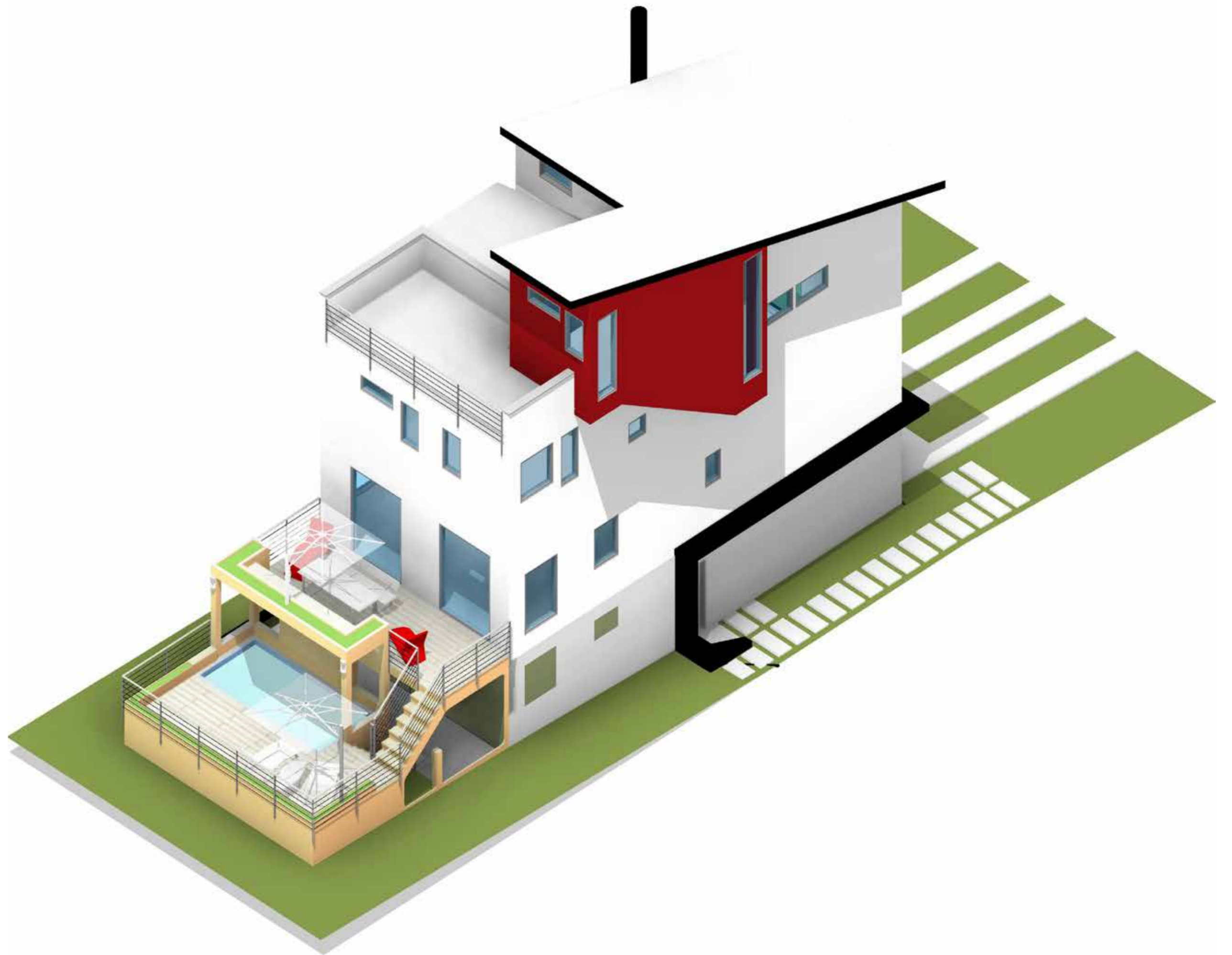
The underlying user-experience theme of “do-learn-connect” was translated into the space by incorporating traditional influences into the abstract design vocabulary to connect guests with the tangible & intangible contextual identities of the locale such as the backwaters & houseboats with playful color accents.

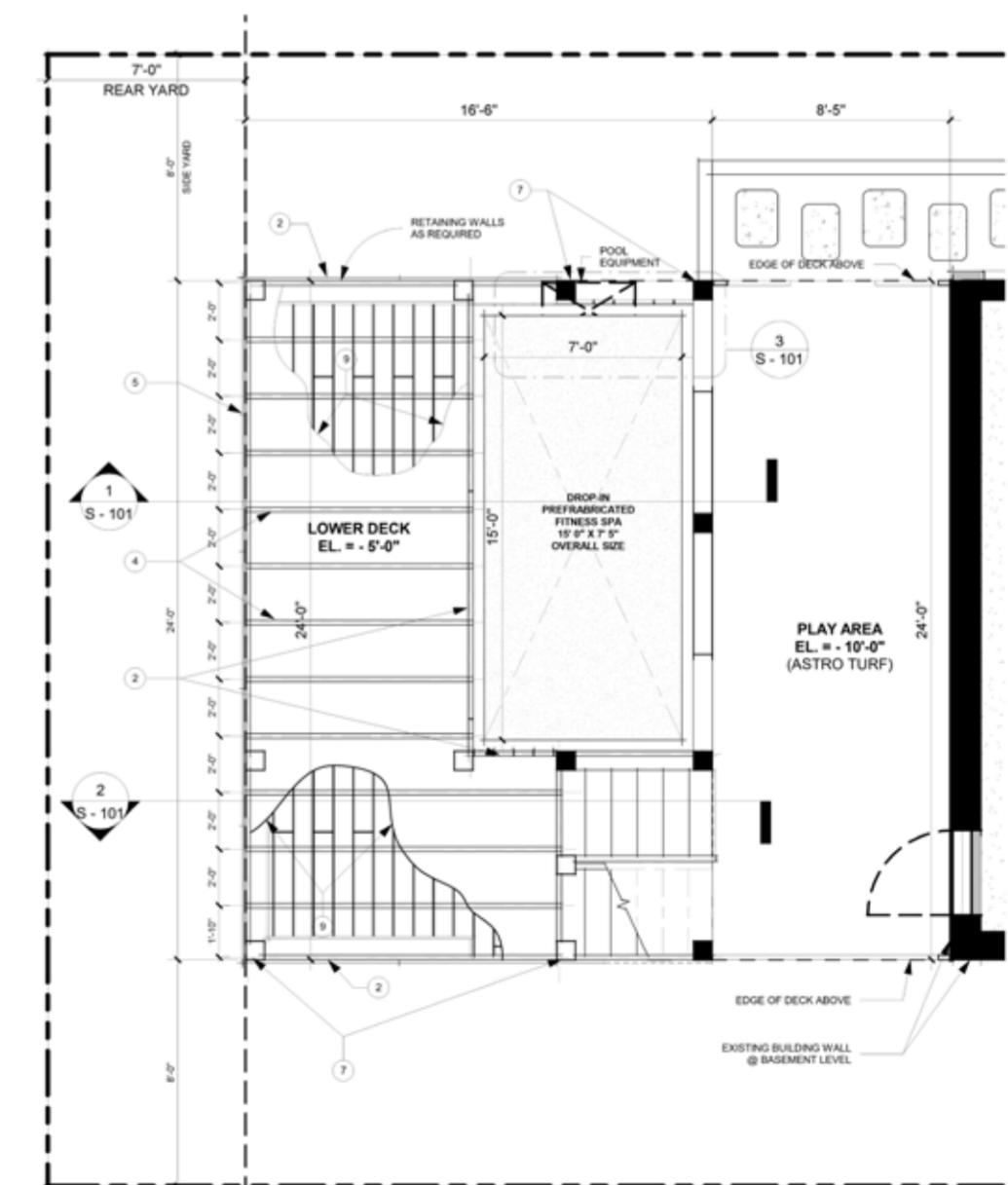
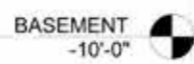




67 Weather By
Single Family
2019 - Atlanta, USA

The house was designed with a smart multi-functional deck within the minimal footprint which was quiet challenging. The landing above extension acts as a pool shade, it hosts a small sit out area which can accommodate barbeque along with planters and visual connectivity with the floor below.





135 East 47th LEX

Advance Interior

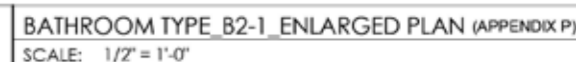
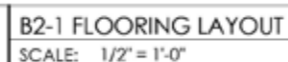
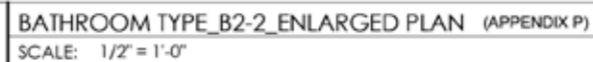
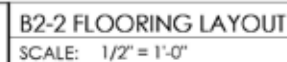
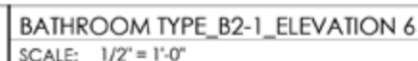
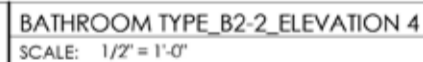
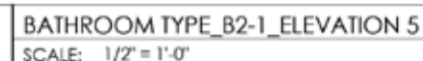
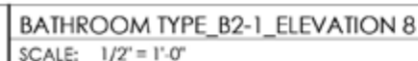
2018 - New York, USA

This project envisions a residential interior fit-out designed to elevate family living and entertainment. The focus is on creating elegant, timeless spaces that reflect a classic architectural style.

Each apartment will be thoughtfully crafted with a seamless blend of functionality and sophistication, offering comfortable yet refined environments.

The design will harmonize rich textures, balanced proportions, and enduring materials to evoke a sense of warmth and luxury, ensuring that the spaces not only cater to everyday living but also enhance the family's experience through carefully curated details and timeless charm.





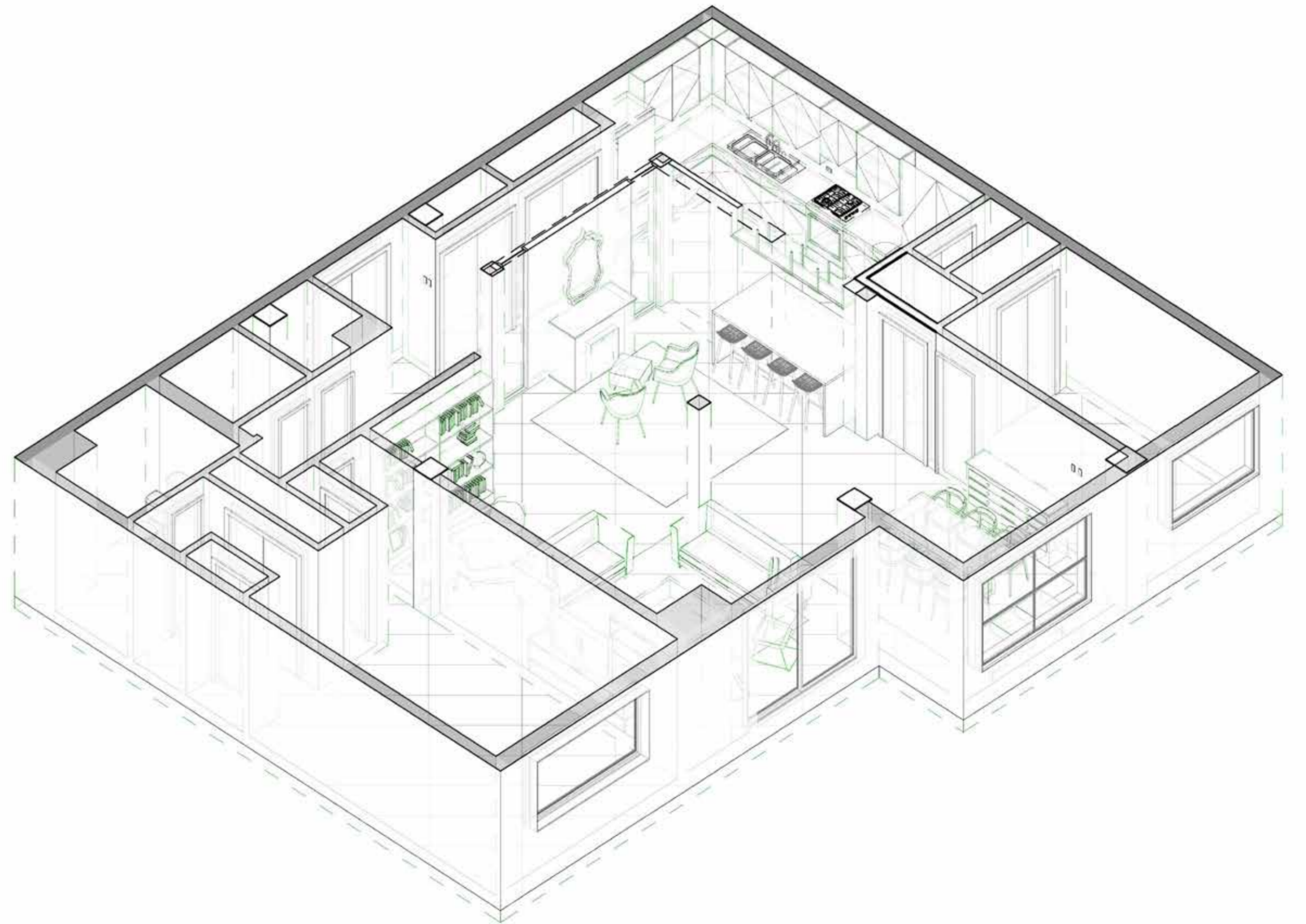
UNITS : 2-10D, 2-10G, 2-10H, 11-15C, 11-15E, 11-15F,
11-15G, 16-17C, 16-17E, 16-17F, 18D, 19-21F, 22-25E, 26-32E.

Penthouse Condo

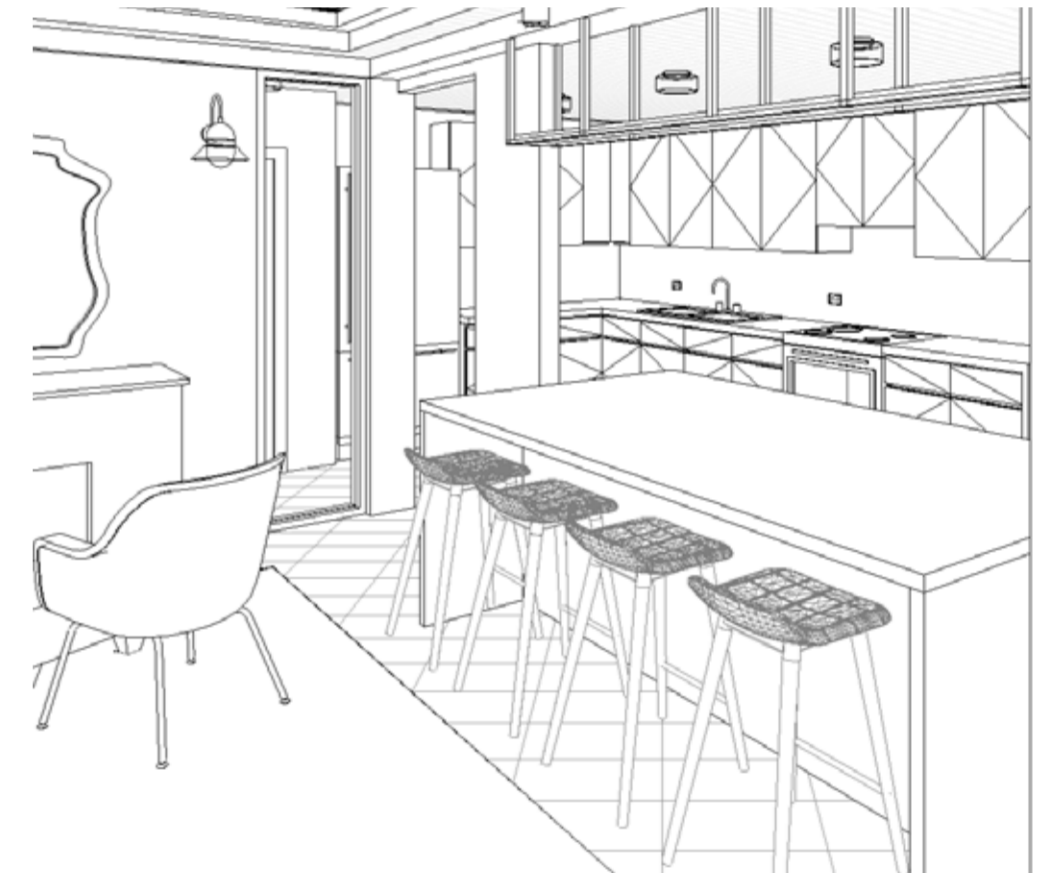
Single Family

2019 - Washington DC, USA

The penthouse was redesign wiht modern and transitional style, refreshing living/dinning space along with incorporating new kitchen bar counter. An open layout proposed for a lighter pallet and a easy approach.



Inspirational board



INTERIOR FLOOR PLAN

Mood Board



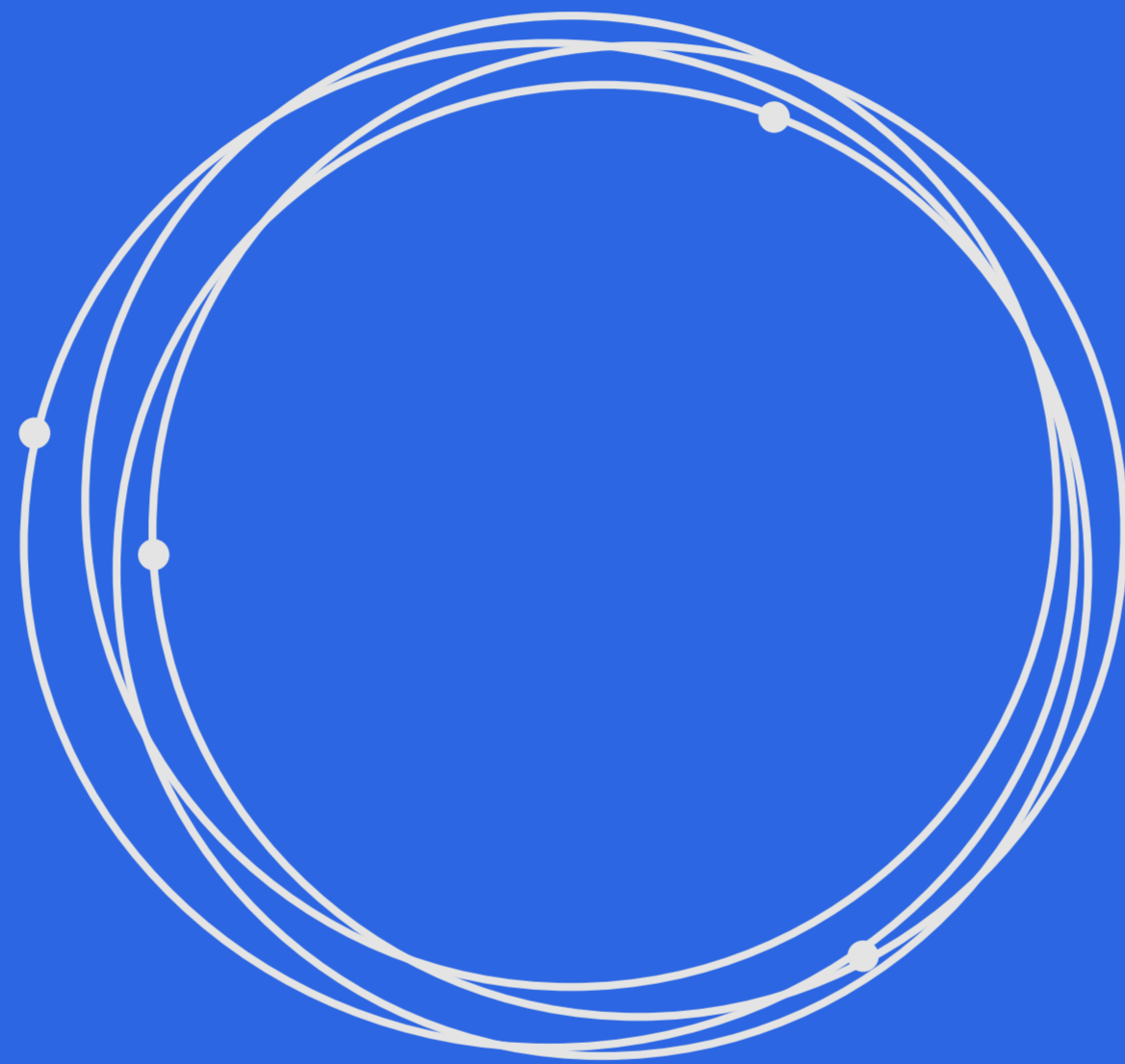
Living space



Kitchen



Green elements



Thank you

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