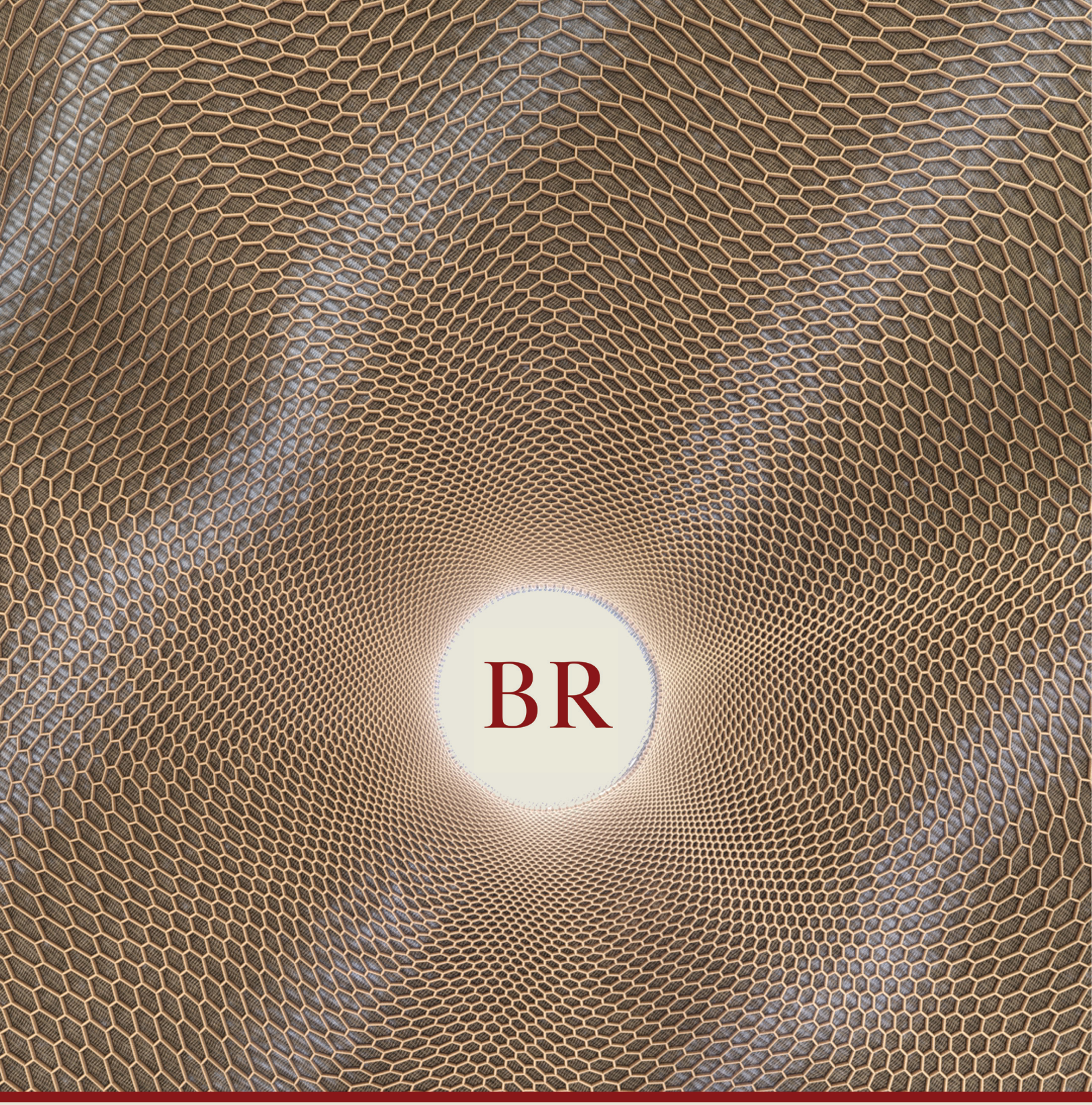


architecture portfolio

selected works

Bennett Resnick

vol. 1

2020-2024

As an architect with a passion for urban design, I thrive at the intersection of creativity and technical expertise, striving to shape the world through innovative and sustainable design solutions. With a strong engineering inclination, I approach every project with a keen eye for detail, ensuring that both form and function harmoniously come together.

I consider myself an advocate of New Urbanism, and I am committed to revolutionizing the way we approach urban design and architecture. Embracing the principles of mixed-use development, pedestrian-friendly spaces, and sustainable practices, my designs are driven by a strong belief in fostering vibrant, interconnected communities. My love of travel has impacted my design approach, and this portfolio showcases a variety of projects in different places and architectural styles that reflect the place they inhabit.

Email: bennett.resnick@gmail.com
Telephone: +1 (484)-639-7934
Website: bennettresnick.com

Education

-Bachelor of Architecture
University of Miami
Coral Gables, FL
2020-2024

-Minor in Psychology
University of Miami
Coral Gables, FL
2020-2024

Softwares

3D:
-Rhino
-Revit
-Sketchup

2D:
-AutoCAD
-Adobe Creative Suite
-Microsoft Office

Rendering:
-Lumion
-Enscape

Skills

-Architectural: 3D modeling, 2D planning and documentation, rendering/visualization, laser cutting, physical modeling, project coordination, architectural photography
-Website design & video editing
-Urban Planning

Languages

-English(Native)
-French (Intermediate)

Work Experience

-Architectural Intern | DPZ CoDesign
Miami, FL | Aug-Dec 2022

I worked with the founders of the New Urbanism movement, Andrés Duany and Elizabeth Plater-Zyberk, on diverse projects. My responsibilities included assisting with CAD drawings, attending charrettes, and participating in client meetings, contributing to the successful development of floor plans, urban plans, and street sections.

-Supply Chain Mgmt. Intern | Siemens Healthineers
Malvern, PA | May-Aug 2022

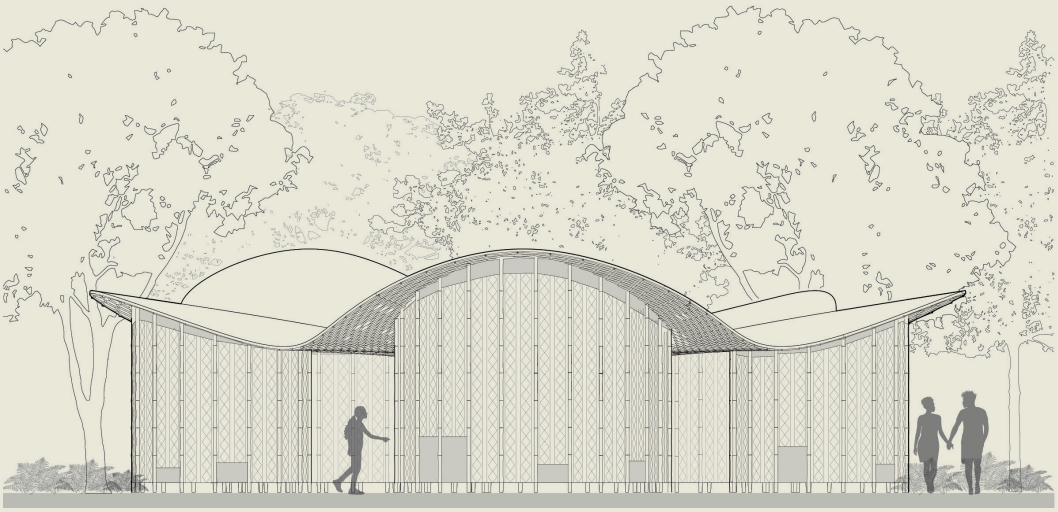
Throughout my tenure, I actively supported supply chain management and procurement business development. I was in charge of monitoring new medical products entering FDA approval, ensuring that the organization remained well-informed about industry advancements. As a result, I was responsible for creating informative slide decks to share valuable insights with the company. Additionally, I actively collaborated with colleagues worldwide, presenting new business plans through visually engaging slides and spreadsheets, fostering successful ventures on a global scale.

For optimal viewing experience, along with project videos, please visit bennettresnick.com

Content

Competition Projects

Educational Projects



Fambul

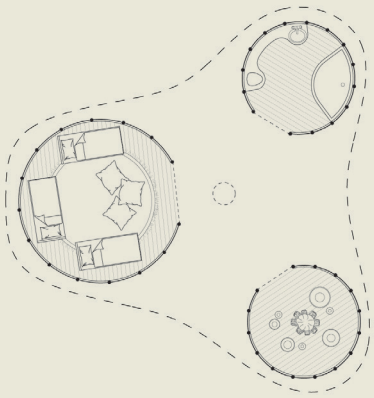
In response to the urgent need for emergency deployable shelters worldwide, “Fambul” was developed with a focus on Sierra Leone, specifically the capital city of Freetown. Motivated by the global unpreparedness during the Covid-19 pandemic, the project aims to design shelters for the vulnerable population living in overcrowded areas susceptible to future disease outbreaks.

Freetown was chosen as the site due to its historical experience with diseases like Ebola, high population density, vulnerability to flooding, and high poverty rates. The project draws inspiration from the traditional round African hut design, placing a strong emphasis on celebrating local cultures and utilizing locally sourced materials.

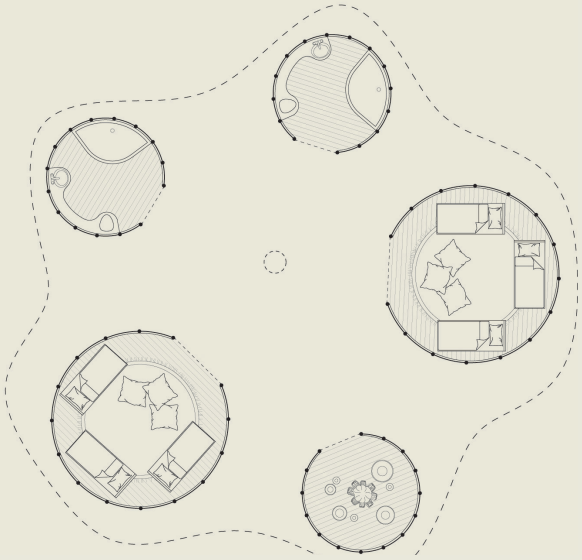
Strategically located amidst the majestic Lion mountains, just south of Freetown, these shelters act as essential lifelines for the community, liberating individuals from the constraints of unsanitary urban environments. Named “Fambul,” the Krio word for family, the project fosters unity and resilience, embracing the country’s cultural fabric while creating a safe and culturally sensitive haven for its people.

With a deep commitment to community and togetherness, “Fambul” not only provides physical refuge but also supports the well-being and vitality of the inhabitants, paving the way for a brighter and more hopeful future for Sierra Leone.

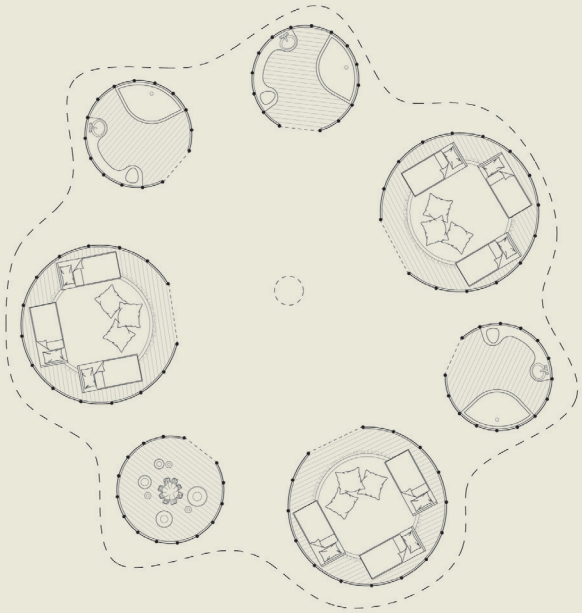
Fambul was awarded a third place prize in a competition sponsored by Ecosteel and GoFriday, organized by the University of Miami School of Architecture. The project embodies resilience and proposes a unique design devoted to honoring the cultures of Sierra Leone,



Wan Fambul (Single Family)
-1 bedroom, 1 bathroom, 1 kitchen
-200 square feet
-Accomodates up to 3 people

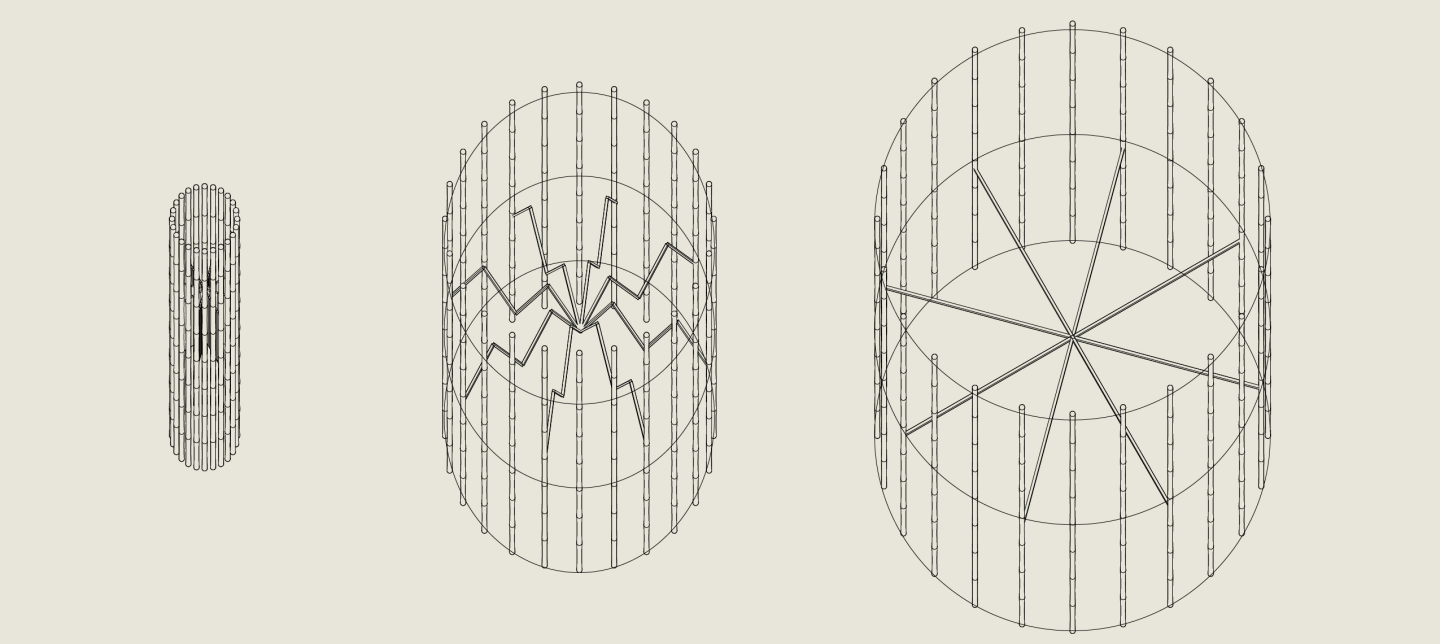


Tu Fambul dem (2-Family)
-2 bedrooms, 2 bathrooms, 1 kitchen
-550 square feet
-Accomodates up to 6 people



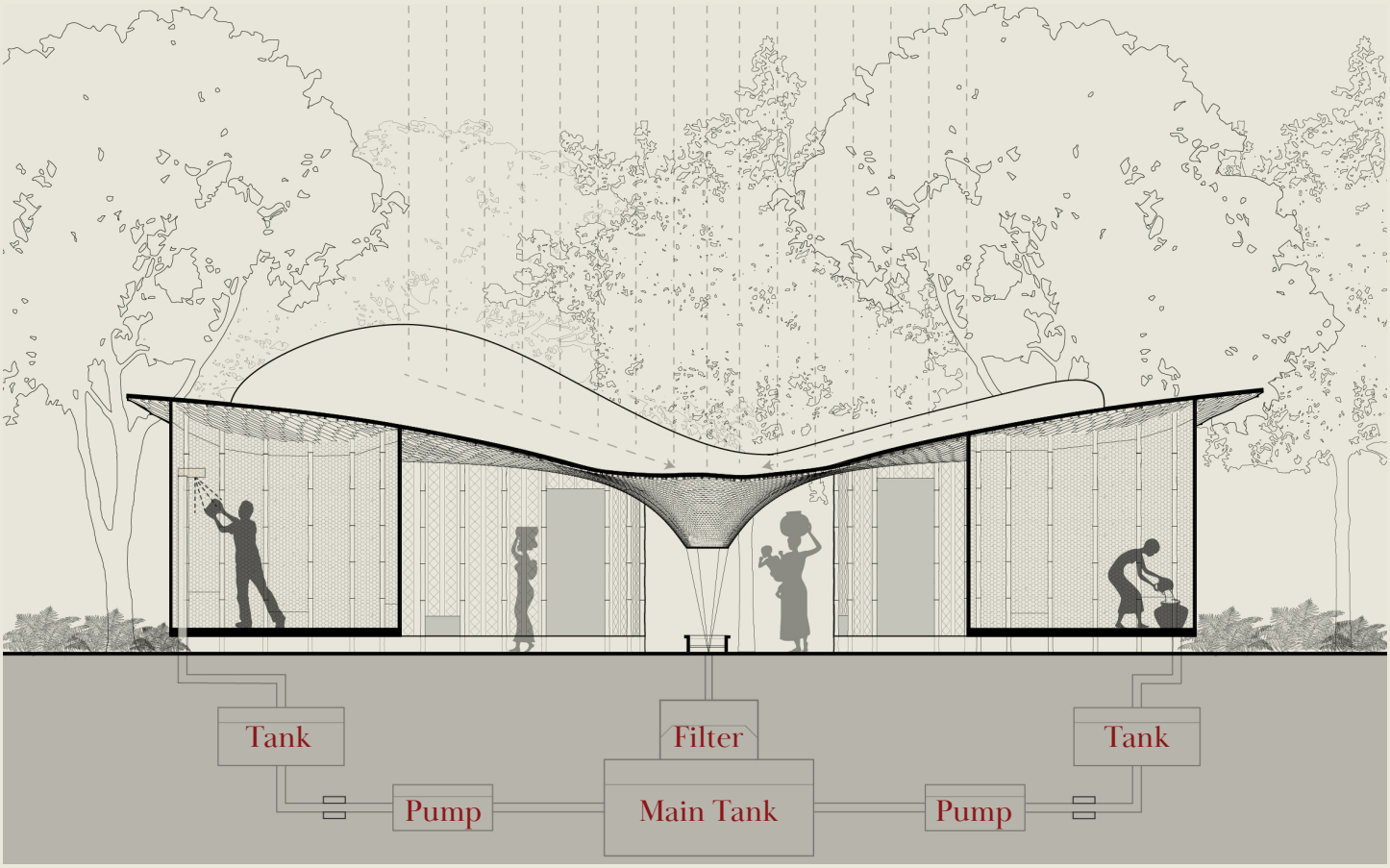
Tri Fambul dem (3-Family)
-3 bedrooms, 3 bathrooms, 1 kitchen
-800 square feet
-Accomodates up to 9 people

Shelter Variations



Compactability

The folding mechanism allows for rapid deployment on site and ease of dismantling for transport purposes. This is essential in cases of emergency, as it allows for the shelter to be quickly brought to places of need, whilst limiting the skill of labor required to construct it.



Rainwater Harvesting

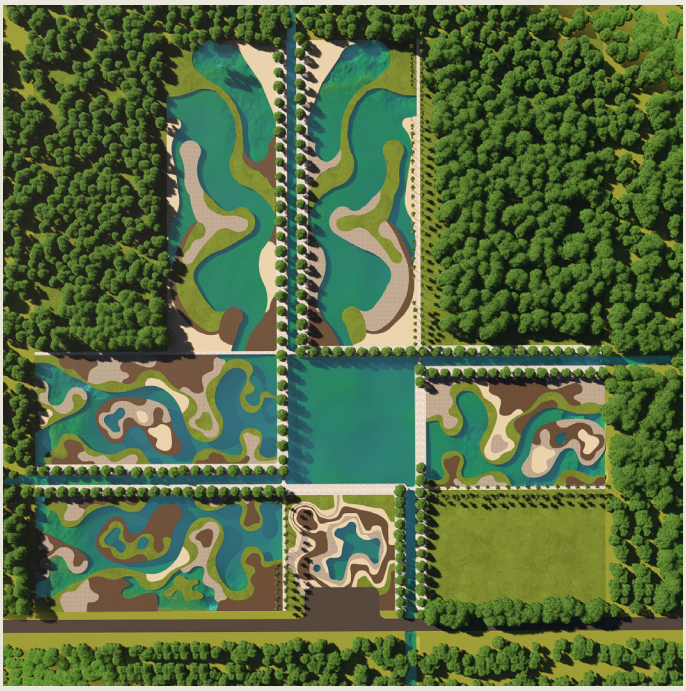
Silica City Innovation District

In May 2015, following the discovery of significant offshore oil deposits by an ExxonMobil-led consortium off the coast of Guyana, a nation with historically one of the lowest GDP in South America, the trajectory shifted dramatically. Guyana was poised to become the world's fourth-largest offshore oil producer, surpassing nations such as Qatar, the United States, and Norway.

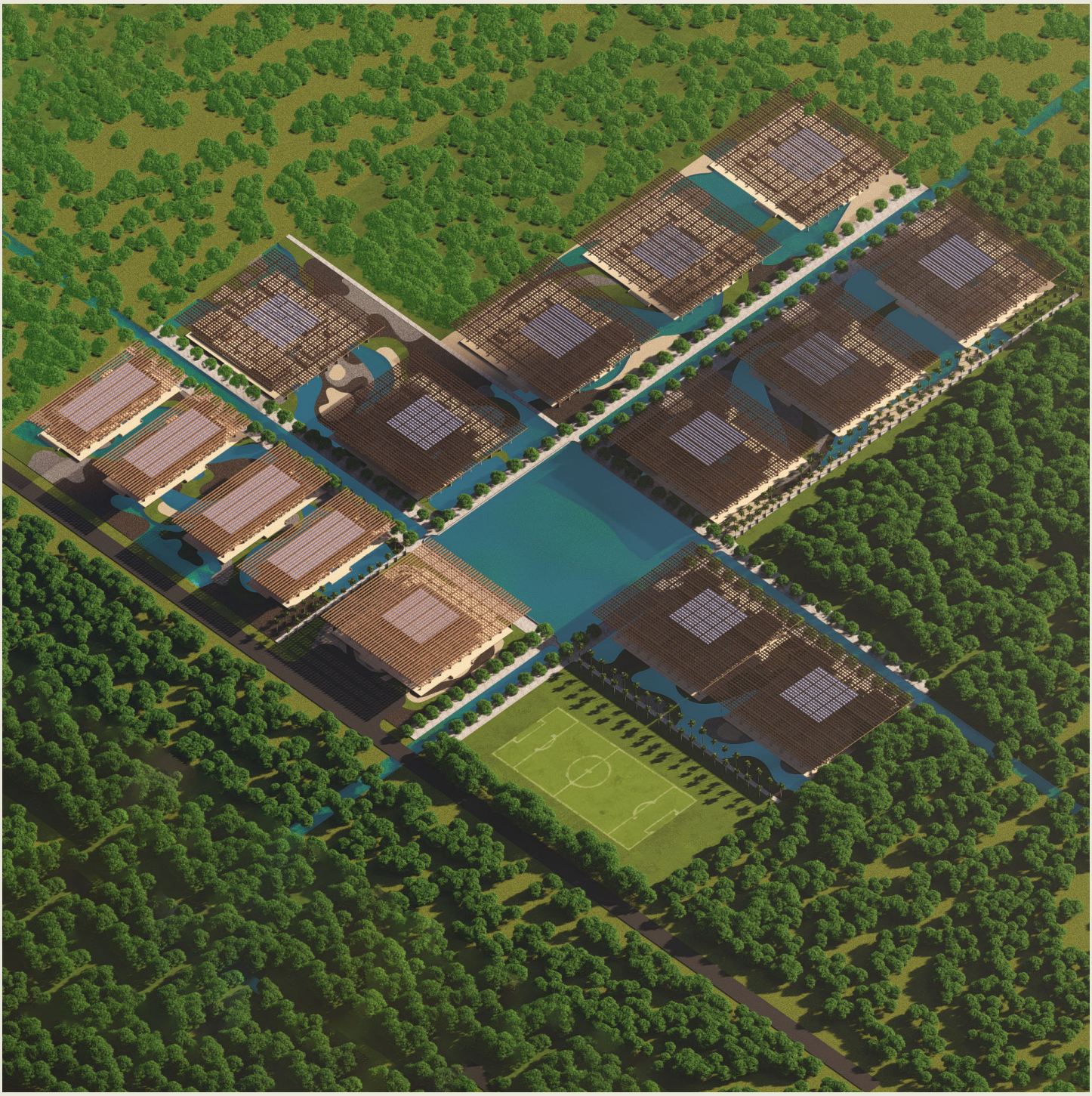
Recognizing the urgent need to manage the ensuing economic boom, the concept of Silica City emerged as the future capital of Guyana. Georgetown, the current capital, faced challenges due to its below-sea-level location and inadequate infrastructure to support the anticipated population surge. In collaboration with the government of the Republic of Guyana and Perkins & Will, my studio at the University of Miami School of Architecture was entrusted with the task of designing an innovation district for the prospective capital.

Silica City Innovation District is crafted to foster small business growth and innovation across diverse sectors, envisioning Silica City and Guyana as future hubs of technology. Emphasizing sustainability, intelligent transportation, water management, and walkability, the design challenges the status quo of city design and aims to change the way places are built.

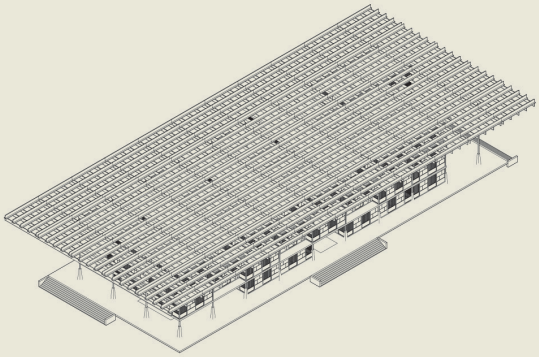
The design proposal for Silica City Innovation district is merely the first phase of a broader project aiming to transform Guyana and city design as we know it. It envisions creating a walkable district to be the model of sustainabilty, resilience, and futuristic thinking.

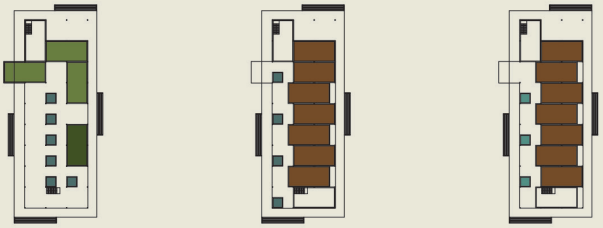


The diagrams show the envisioned process, from an untouched jungle, to landscaping, to construction, and finally to completion. Even in its final form, the innovation district aims to respect and be one with nature, rather than to dominate it.

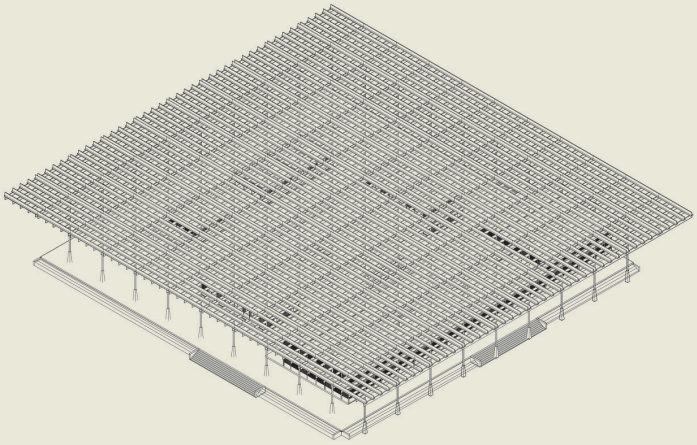


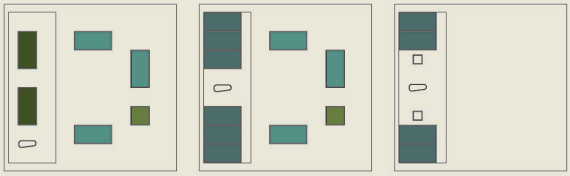
Silica City Innovation District focuses on 5 main ideas: walkabilty, water management, sustainability, innovative technology. and smart transportation. From future transport hubs, to retention ponds, to solar energy harvesting, and more, these concepts are kept at the forefront of each stage of design.



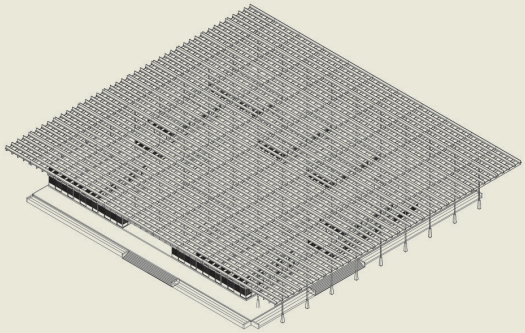


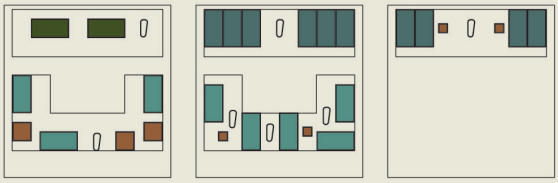
Residential Buildings



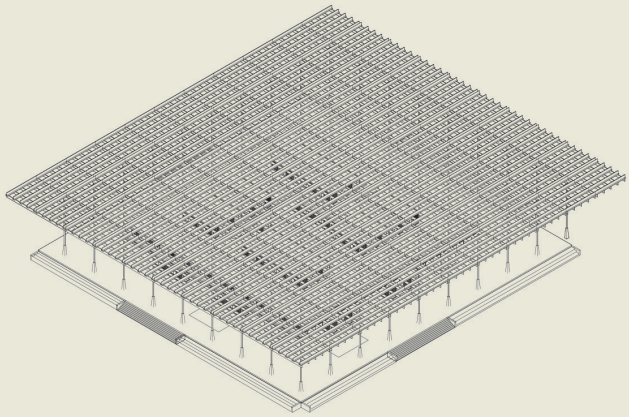


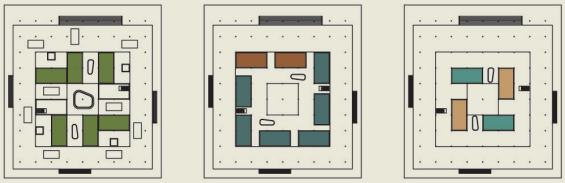
Classrooms & Lecture Halls





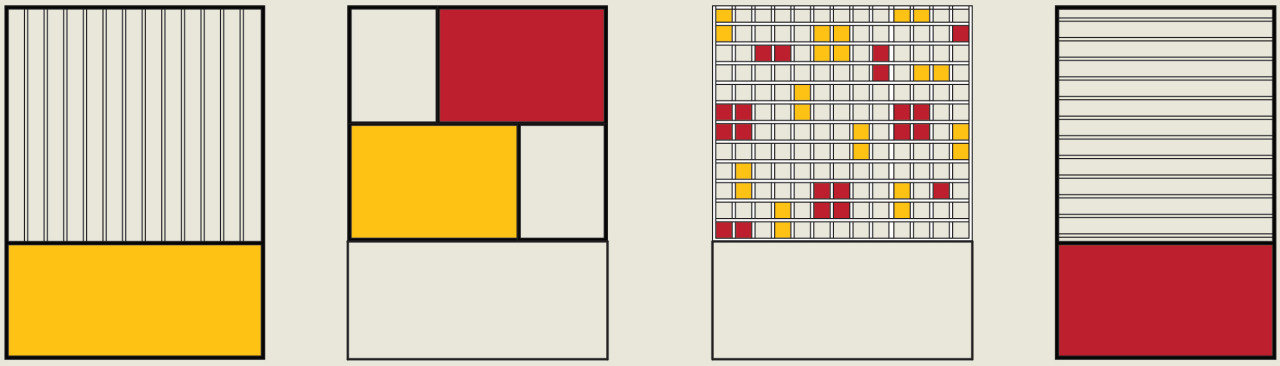
Lab & Office Buildings





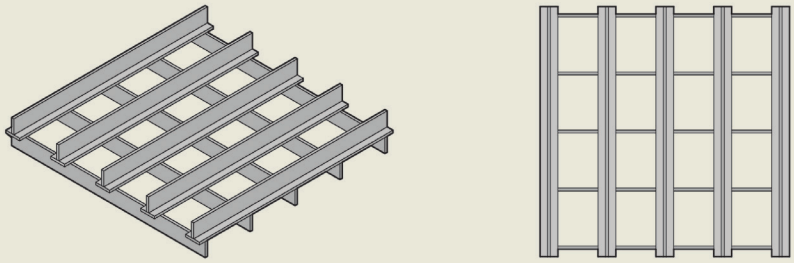
Administration Building

The goal of the project is to propose several differnt building typologies that can be seen in an innovation district. They are spaces designed to encourage communication, walkablity, collaboration, and innovation. Though the plan of each type is different, a common language is created along the facade and through the roof structure of each building type, in order to create a sense of harmony.



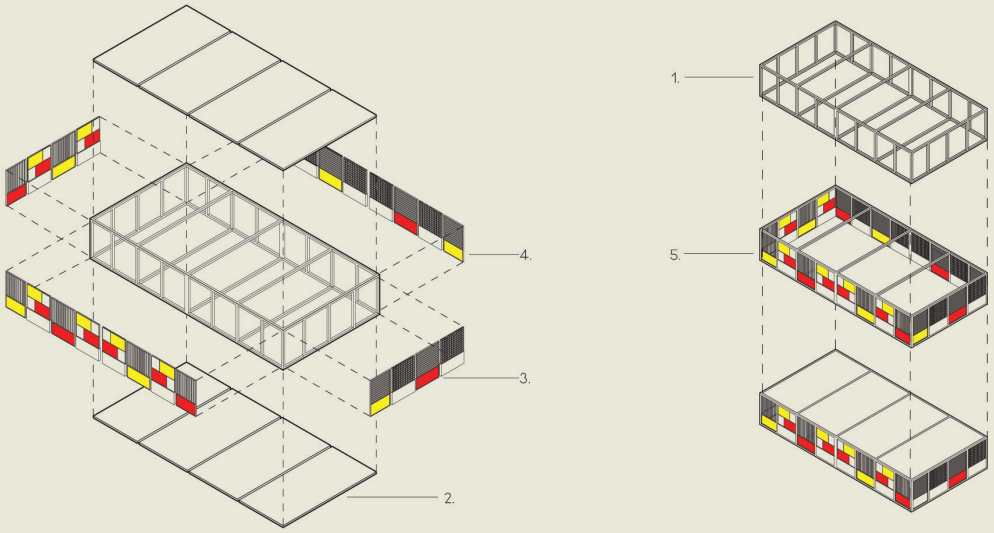
Kit of Parts: Facade Elements

Different modules are oriented in different directions to address the sustainable component of the project. Modules with more shading, which is offered by vertical louvers and the full grill, are placed on southern and western-facing facades, whereas the northward and eastward facades are more open, with large glass coverage and horizontal louvers.



Kit of Parts: Roof Megastructure

The roof is composed of 20 ft x 20 ft interlocking modules that can easily be assembled off-site and brought in by trucks.The megastructure aims to provide a secondary roof, in order to protect against the sun, whilst the roof of each unit is designed to protect against rainfall. The roof is constructed from locally-sourced wood.



Prefabricated Module

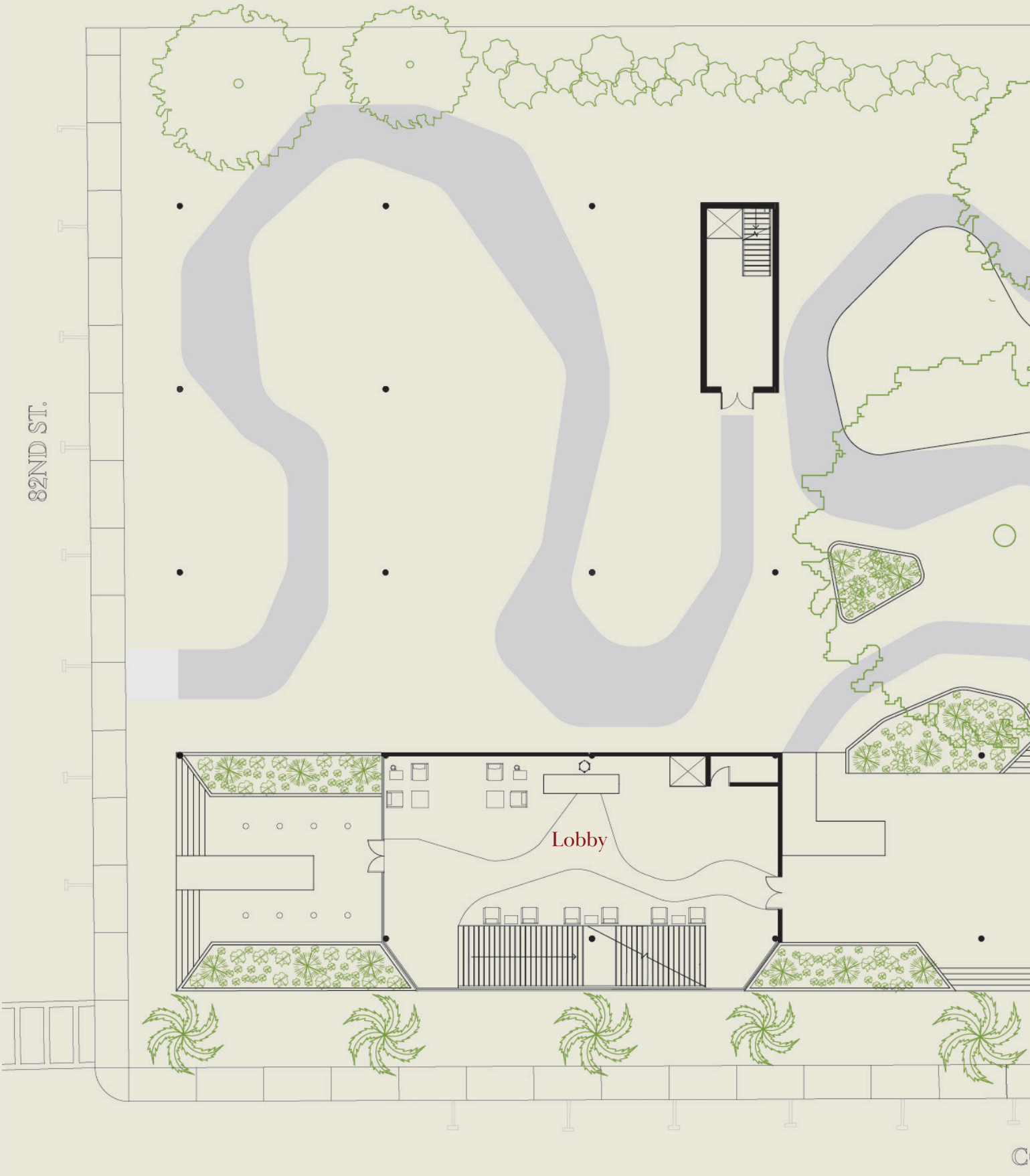
Stepping Stone Youth Center

The Stepping Stone Youth Center derives its name from its stepped volumes, whilst also reflecting the role it plays as a catalyst for the curiosity and growth of its inhabitants. Drawing inspiration from the Brazilian artist Roberto Burle Marx, the structure integrates the curvilinear and rectilinear forms, weaving nature into every aspect of its design.

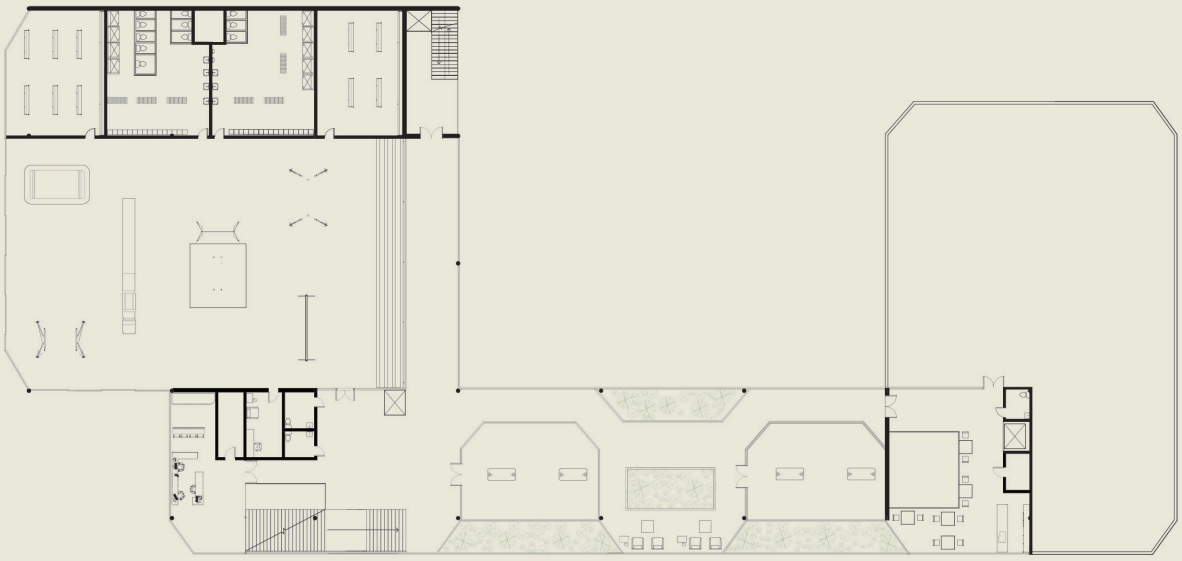
Against the backdrop of global warming and rising sea levels, the Stepping Stone Youth Center stands as a testament to our unbroken connection with nature. The design eschews any sense of rejection, preferring instead to embrace nature as a vital element in both form and function.

Almost as if it is one with nature itself, the youth center's design emphasizes movement as an essential feature, from the chamfered corridors that form the floor plan, to the undulating louvers that comprise the facade, and the fluid pathways that shape the courtyard. Every detail of the building's design radiates energy and life, exemplifying a dynamic and forward-thinking philosophy.

Stepping Stone Youth Center was part of an Integrated Design Studio that tackled all aspects of design, from schematic design, to plumbing calculations, to solar array. The project was located on a site nearby to campus, and site visits were made as a part of the process.

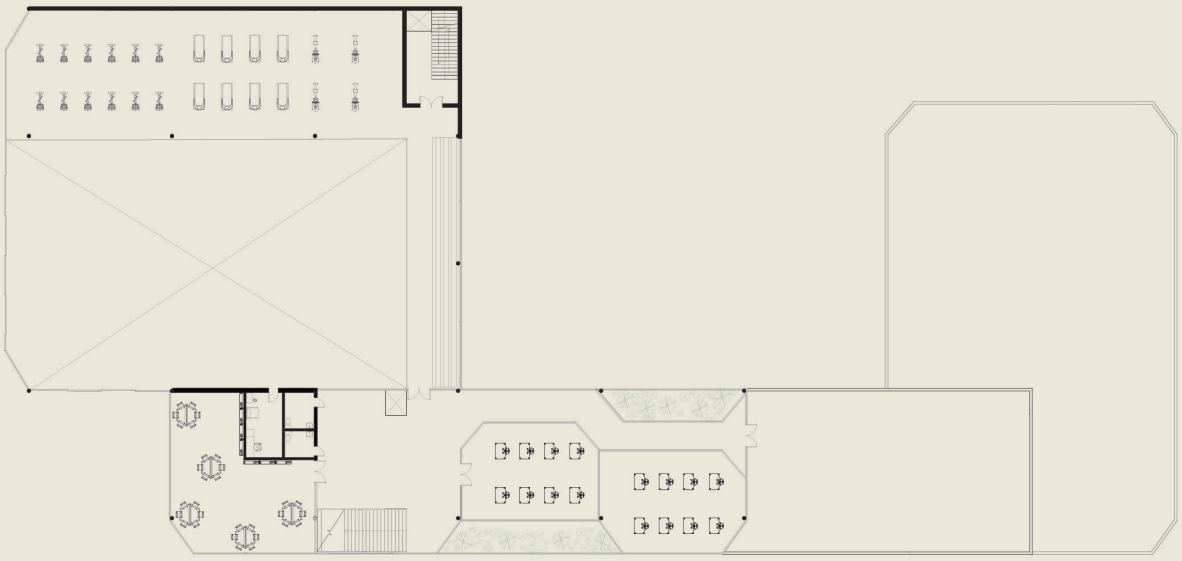

82ND ST.
Lobby


Skating Bowl
Skate Shop
Convenience Store
Juice Bar
83RD ST.
OLLINS AVE.

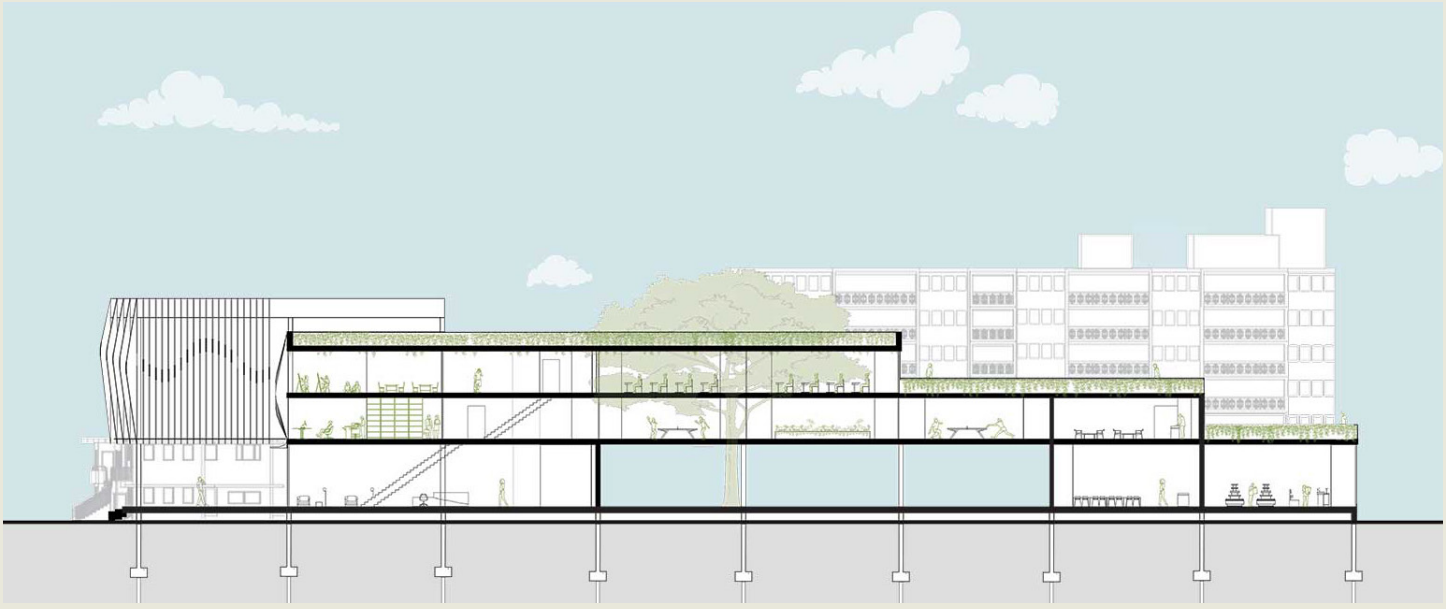


Floor 2

Gymnasium Section



Floor 3



Longitudinal Section

The focal point of the youth center is the gymnasium, designed for competitions, performances, and practicing. It is cooled completely by passive techniques and is shaded by an undulating wooden screen. It is supported by a system of trusses that carry an array of accoustic panels that reduce noise in the gymnasium. While also holding a field of solar panels on the roof, the gymnasium clearly sits as the core of the project.

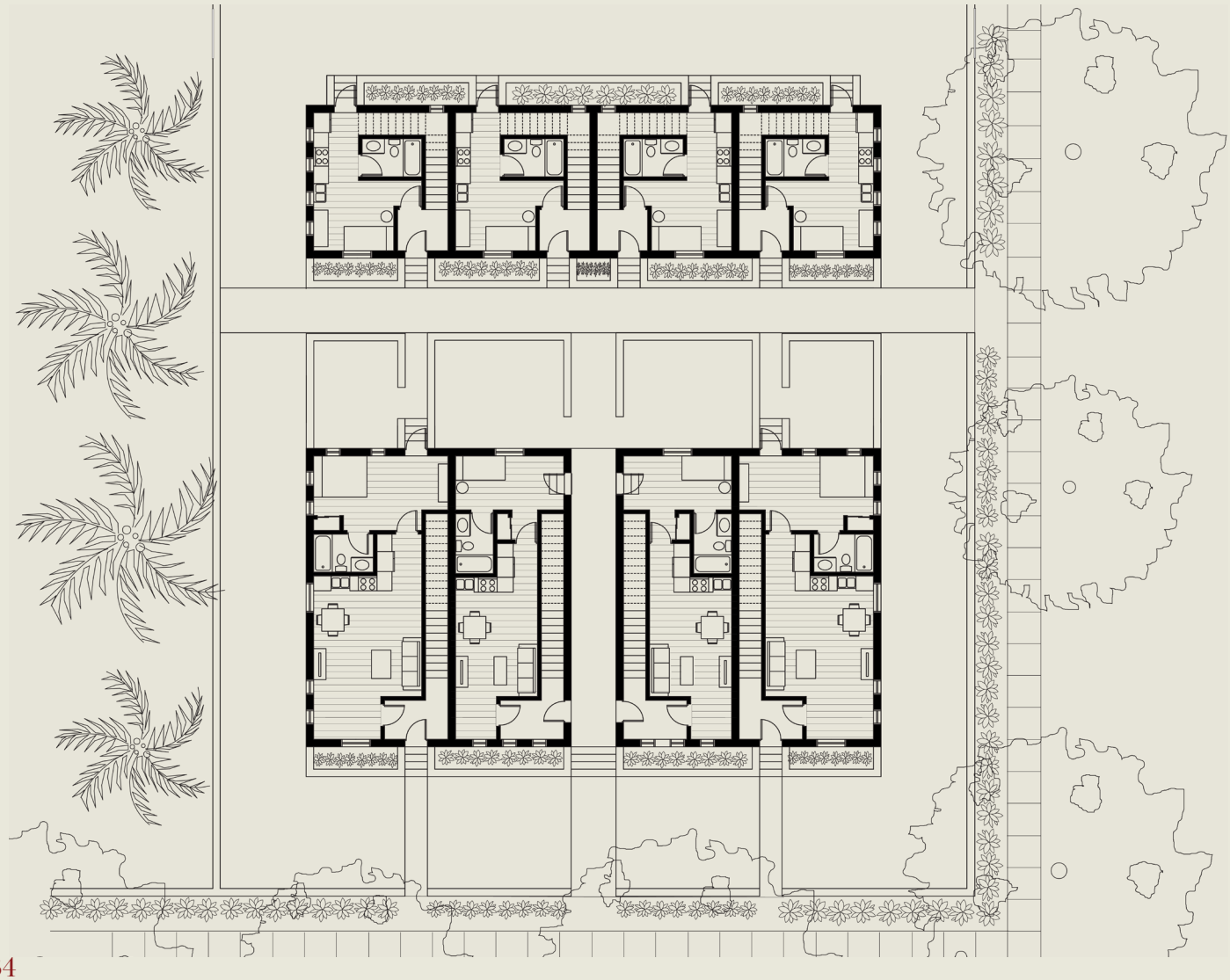
Goombay Terrace

A proposal for West Grove, Florida, designed to address the pressing issue of affordable housing in an area impacted by gentrification and displacement. The project draws inspiration from the vibrant Bahamian culture of the local community, incorporating colorful elements and Bahamian typology into its design.

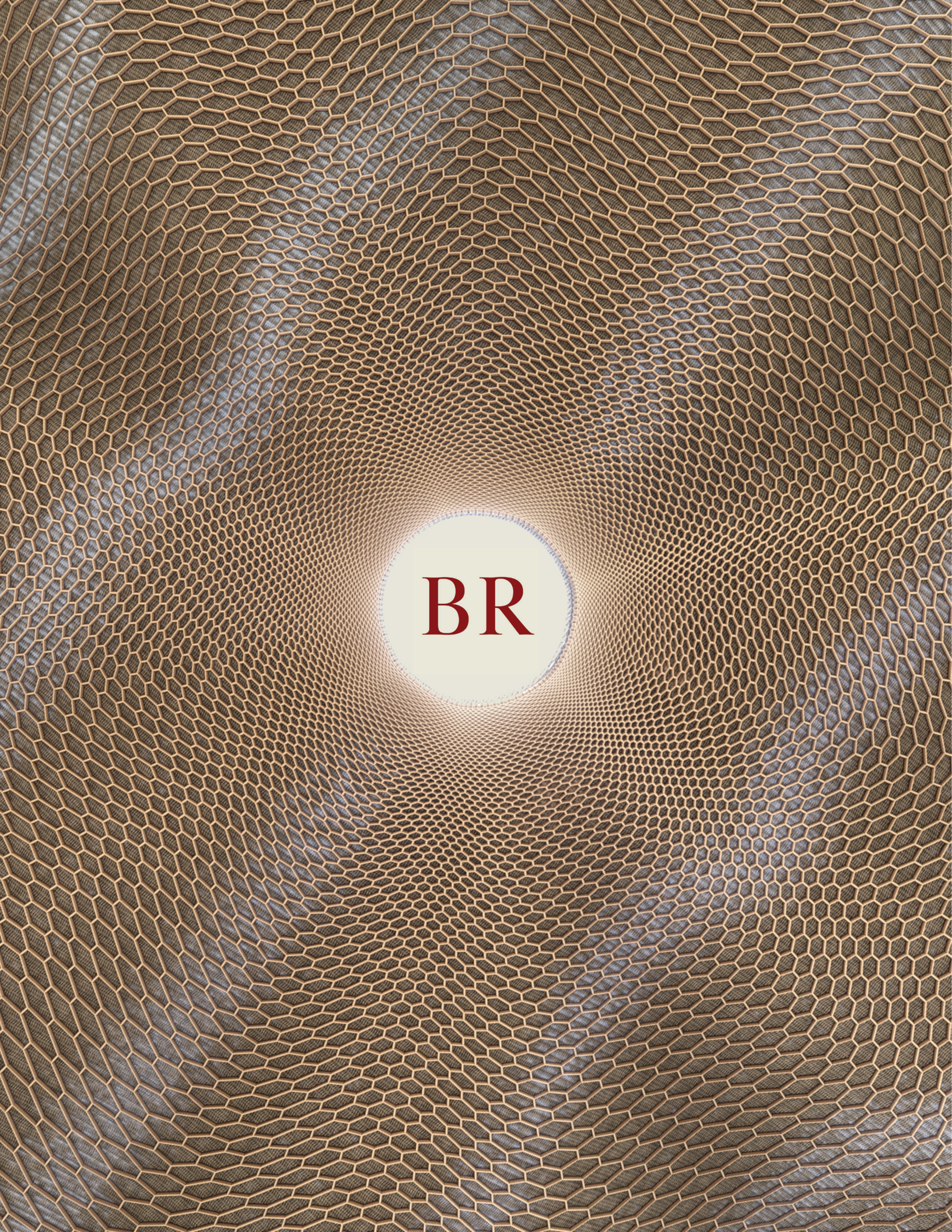
The primary focus is to provide diverse housing options, including various unit sizes and handicap-accessible dwellings, promoting inclusivity for residents. The concept features 16 thoughtfully designed townhouse units, strategically positioned to strike a balance between privacy and fostering communal engagement.

“Goombay Terrace” embodies the spirit of community and resilience, aiming to create a supportive living space that pays homage to the heritage of the area’s inhabitants while offering a solution to the challenges of affordable housing in West Grove.

Goombay Terrace was selected to be presented at a showing in the West Grove, where residents could see proposals for their community. With a focus on Bahamian culture and a commitment to sustainability, the project was welcomed by the community and praised for its approach.



Goombay Terrace is intended for residents of various economic backgrounds. Smaller units with fewer living spaces are contrasted with larger units with more space to encourage diversity within the community. Despite the disparity in size of units, from the exterior, all units appear the same size, allowing residents to live harmoniously.


BR