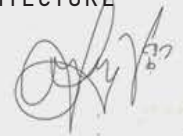


Portfolio 2018-2023

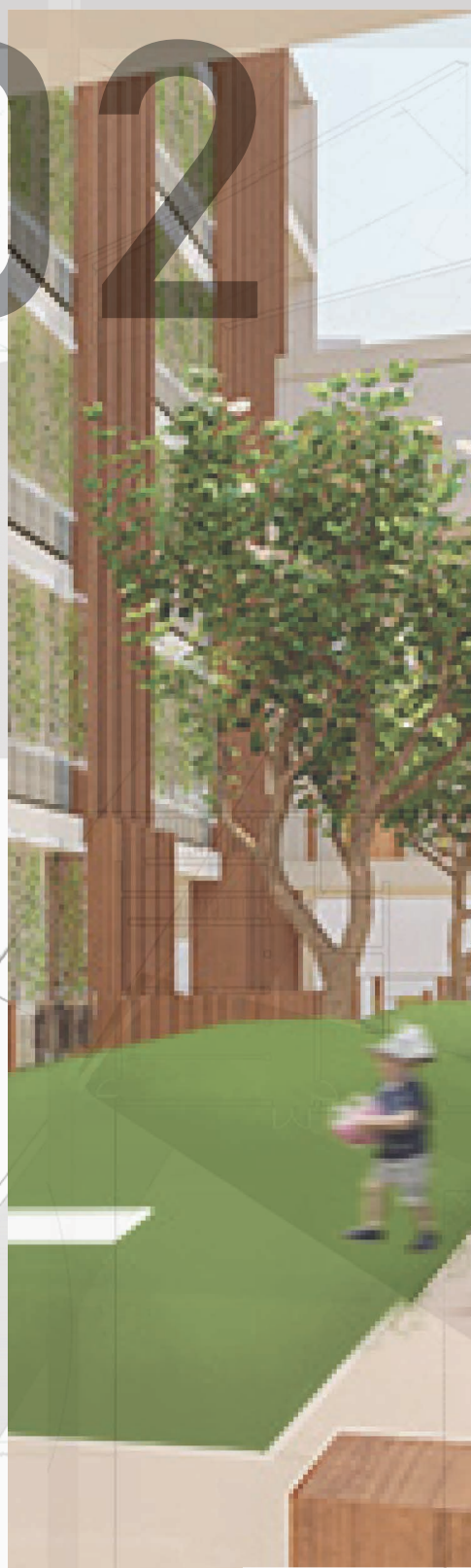
Amy Velez, B Arch



01



02



03



04



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03
Affordable Housing

04
Professional Work / Competition

- EDGE FRAMES OPEN NEW SPACE
- PLATES OVERLAP - OPEN SPACE /CONNECTORS
- ADDITIONAL PLANES

FLOOR PLAN

01

Defining the New Datum: Protecting East Little Havana from Sea Level Rise

Cultural Relief Center

Course

Studio 10 : ARH 550 Thesis

Instructor

Philip Ra, Ricardo Solar, Ethen Wood

Site

Miami, FL

Year

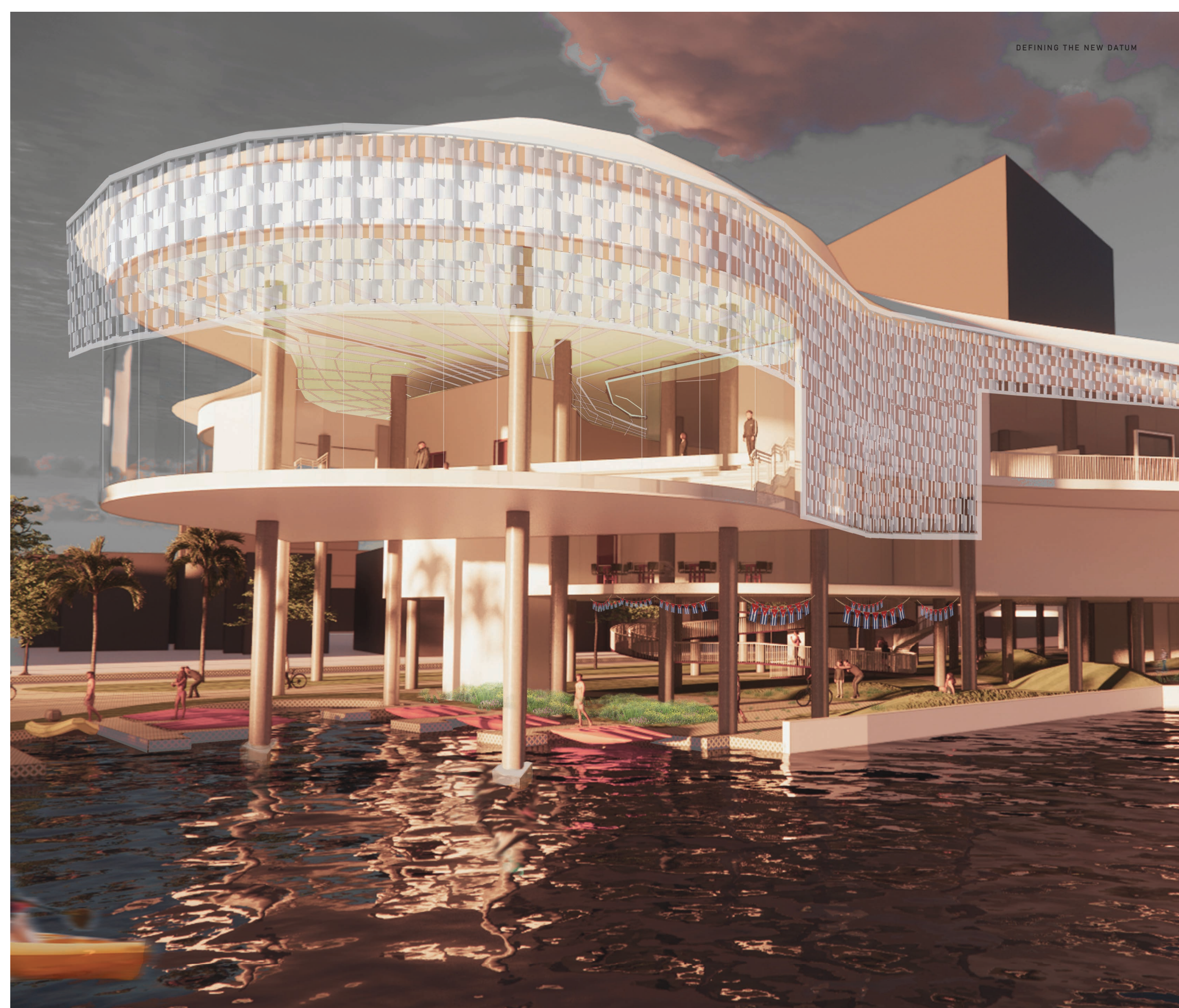
Fall 2023

Software

Rhino3D, Revit, Photoshop, Enscape, Lumion, AutoCAD

Statement

As Miami challenges climate change, such as destructive **hurricanes and rising sea levels** during regular storm surges. However, amidst these challenges lies a unique opportunity to establish an **urban beacon**—a secure haven easily accessible during catastrophic events. Such a structure could play a pivotal role in supporting the affected East Little Havana neighborhood. To maximize **resilience**, strategic techniques is utilized for existing emergency access ways, elevated pathways and buildings, and flood management during storm surge events would be essential components of this approach to **climate-induced crises**.





DESIGN FOR RESILIENCY

Resilient design for flood-prone areas and hurricanes.



DESIGN FOR DISCOVERY

Meeting the water, food, and shelter needs in the aftermath of a hurricane is a way of supporting the East Little Havana community.



DESIGN FOR POWER

Solar power fabric embedded with photovoltaic (PV) cells generating electricity when exposed to light.



DESIGN FOR WELLNESS

Human occupant environmental comfort to enhance overall health engaging experience for users.



DESIGN FOR ECOLOGY

Renewable & clean source of energy for electricity.



DESIGN FOR ECOLOGY

Rainwater collecting and storing rain for reuse.



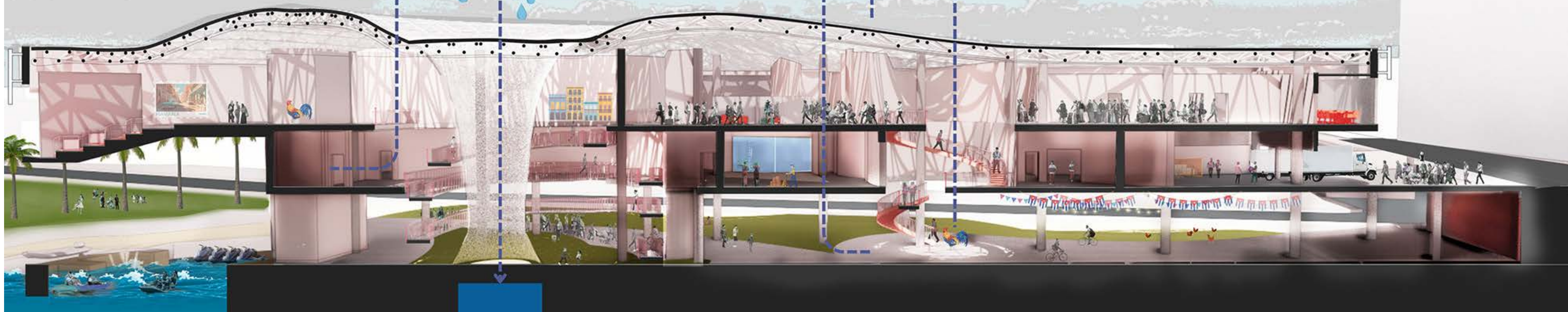
DESIGN FOR ECOLOGY

Proper drainage under concrete pavers prevents water damage.



COMMUNITY ENGAGEMENT

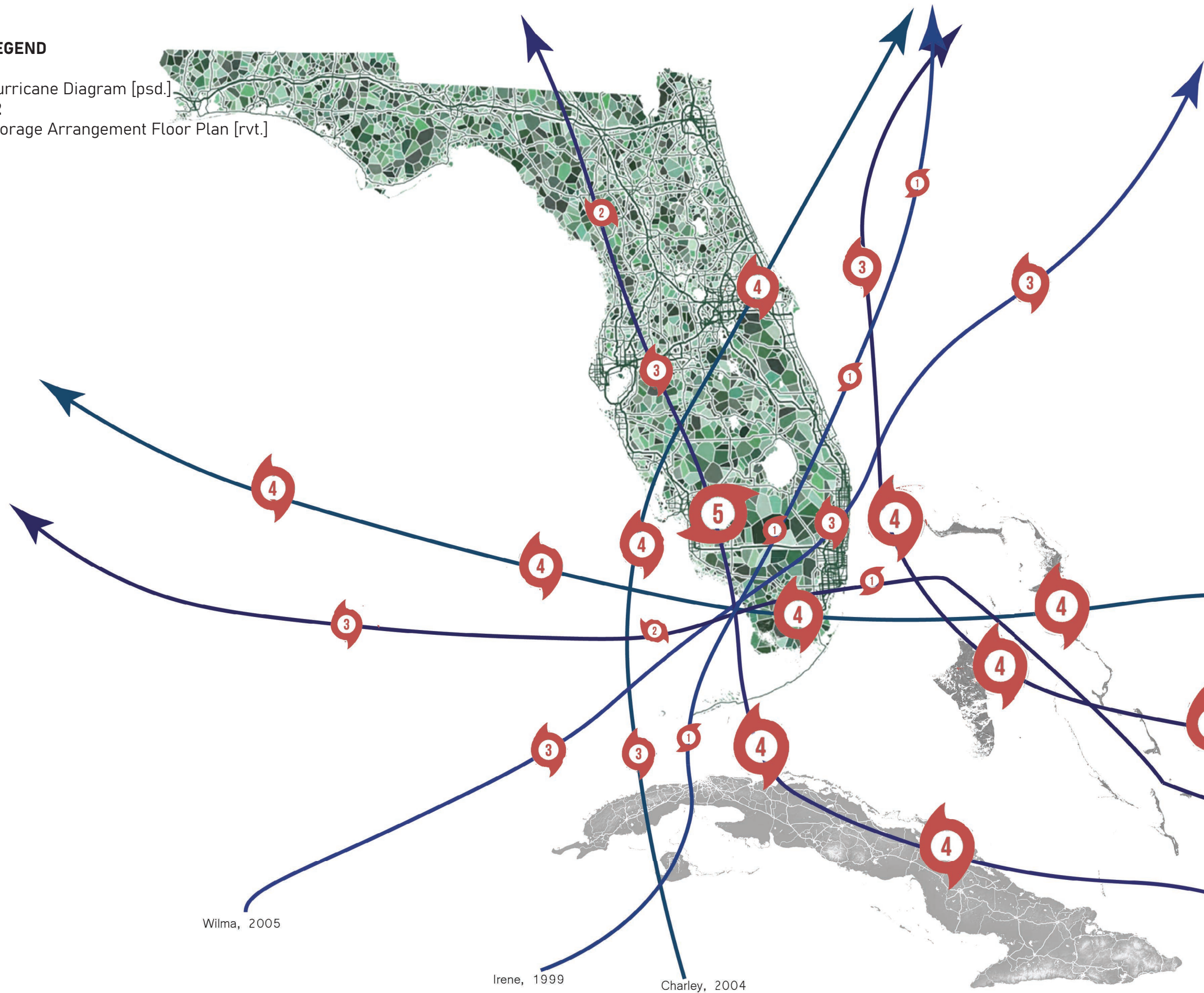
With community instead of for the community.



LEGEND

01
Hurricane Diagram [psd.]

02
Storage Arrangement Floor Plan [rvt.]



Wilma, 2005

Irene, 1999

Charley, 2004



FLOOR PLAN
Irina, 2017

Andrew, 19

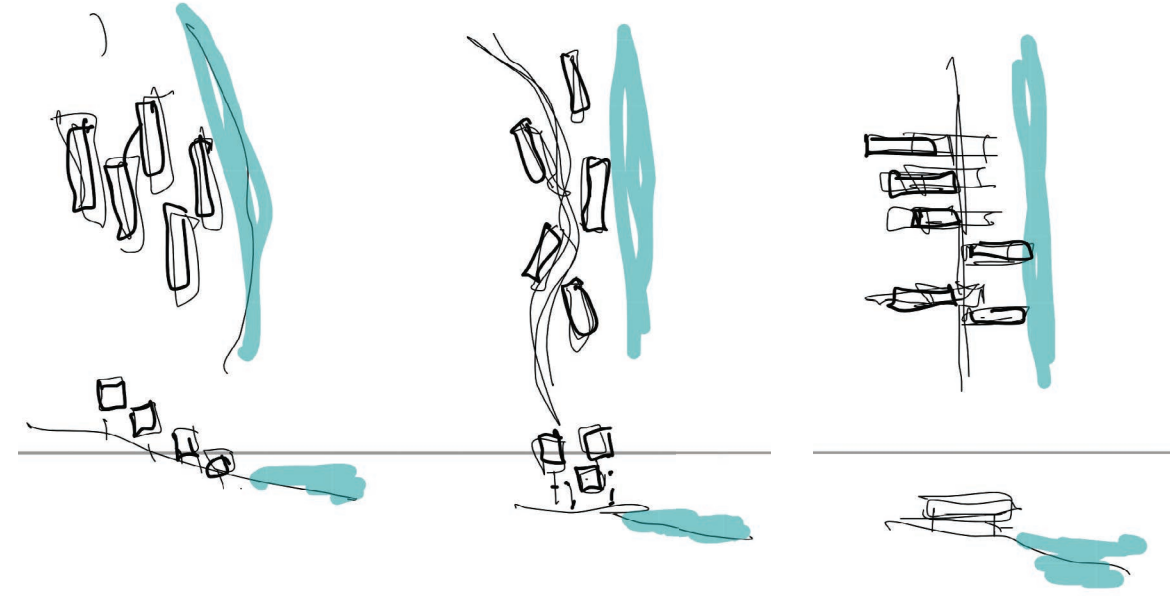
Floyd, 1999

Katrina, 2005

- EXISTING CONTROL ROOM
- LOADING/UNLOADING ZONE
- WATER STORAGE
- ADDITIONAL STORAGE

LEGEND

- 01** Concept Sketches
- 02** Building Concept Protocol [3dm.]
- 03** Emergency Entrance Visual [dwg.]



ACTIVE PASSAGEWAY



LEISURE PASSAGEWAY



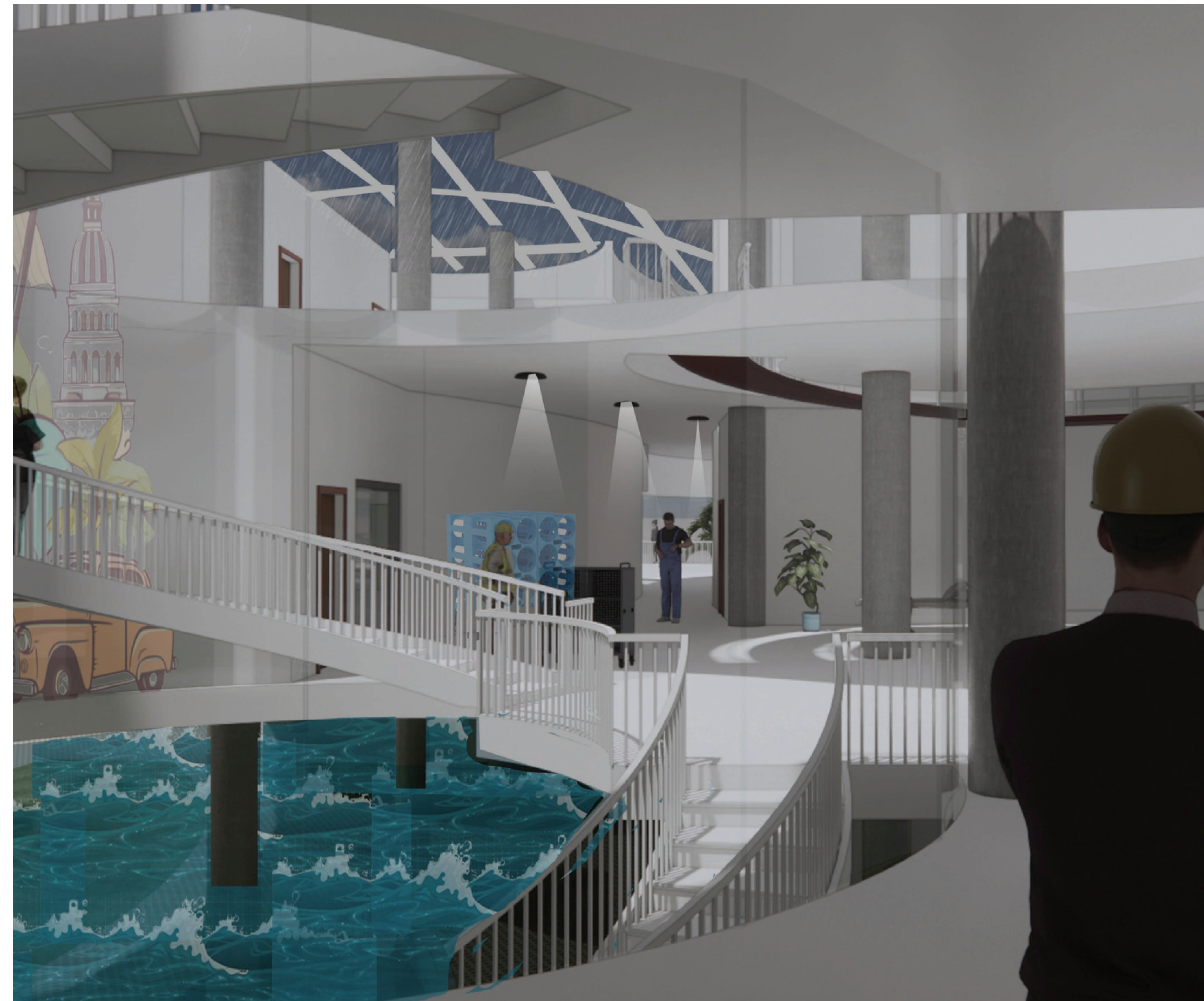
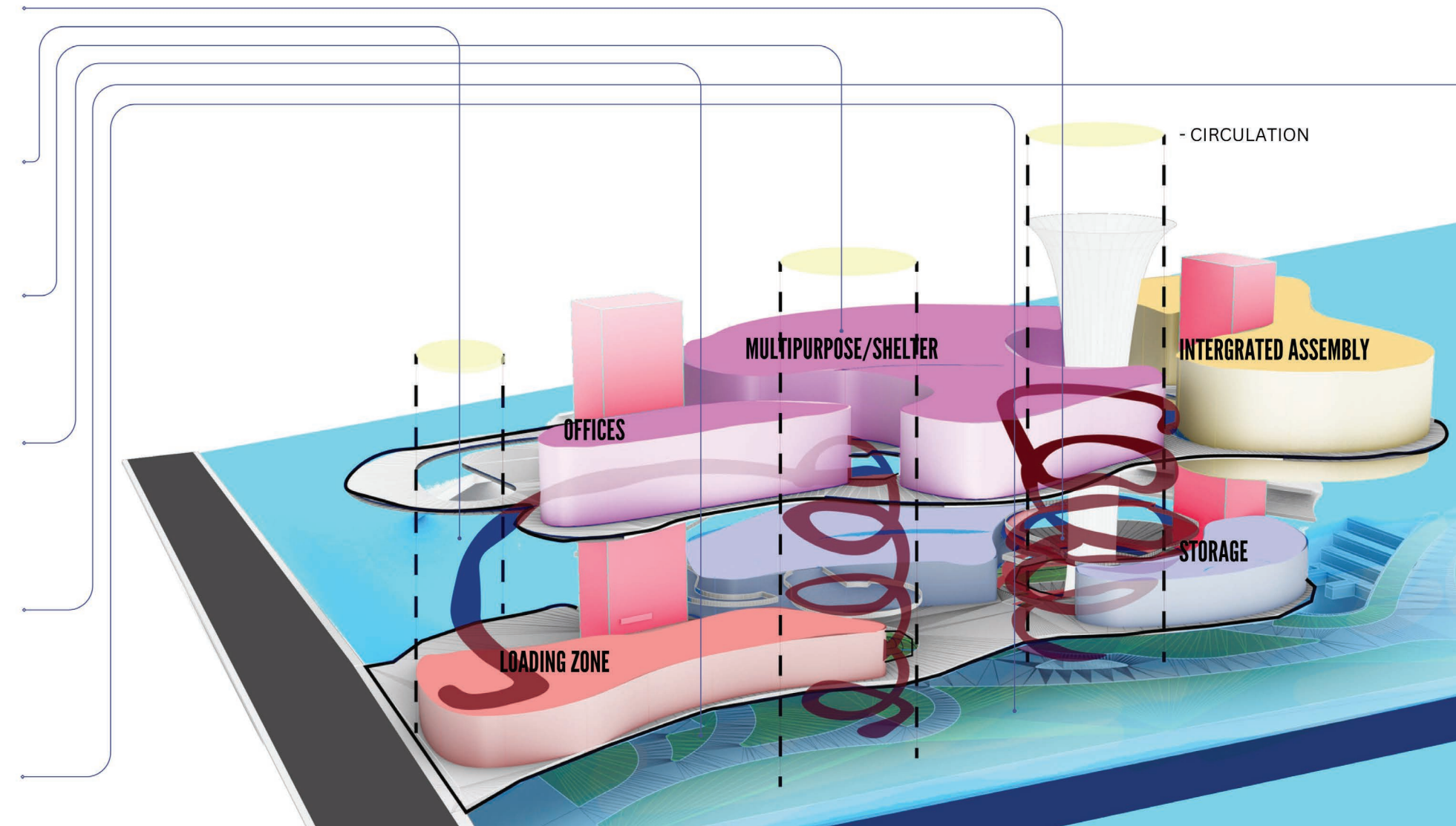
CULTURAL PASSAGEWAY



CIVIC PASSAGEWAY

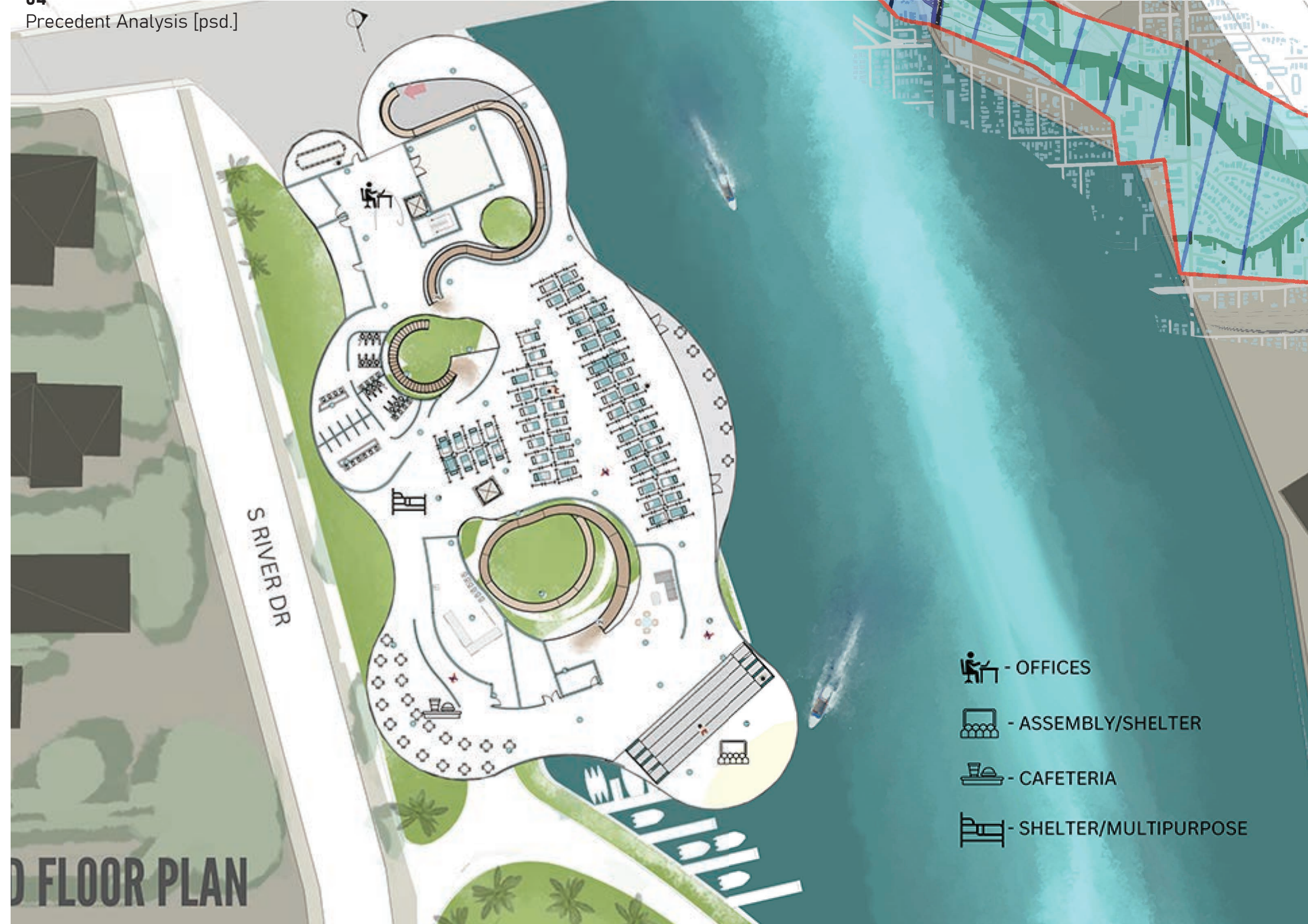


GREEN PASSAGEWAY



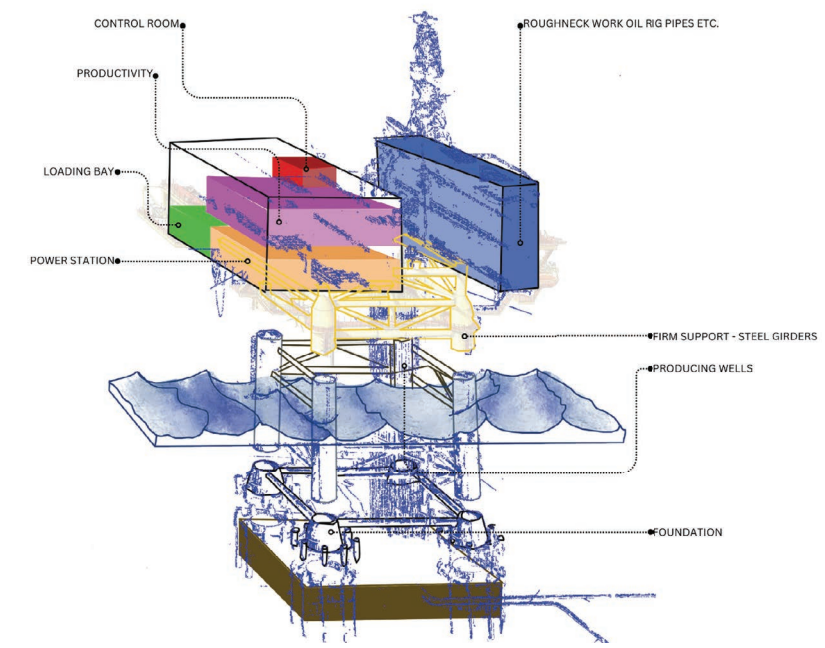
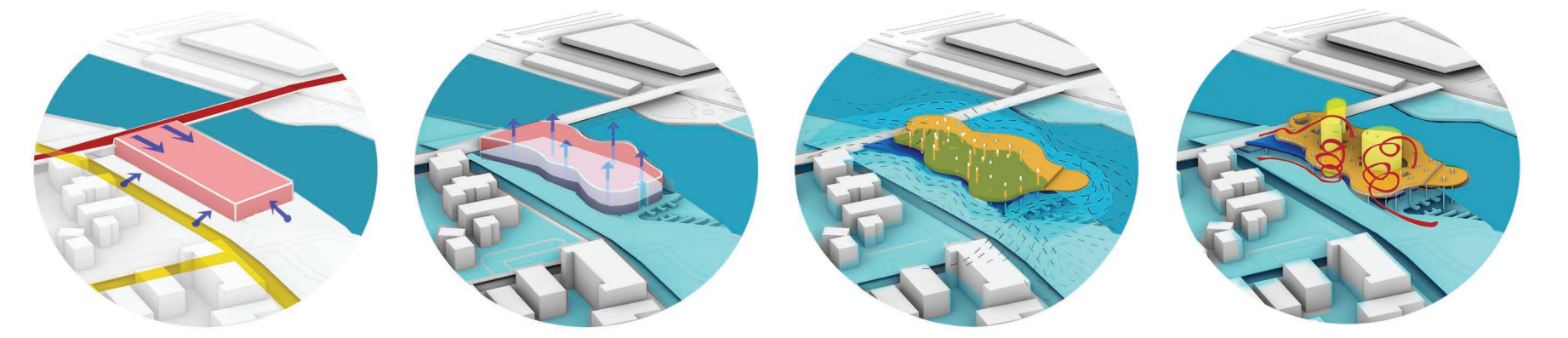
LEGEND

- 01** Shelter In Place Floor Plan [rvt.]
- 02** Building Concept Protocol [3dm.]
- 03** Site At Risk Diagram [psd.]
- 04** Precedent Analysis [psd.]



FLOOR PLAN

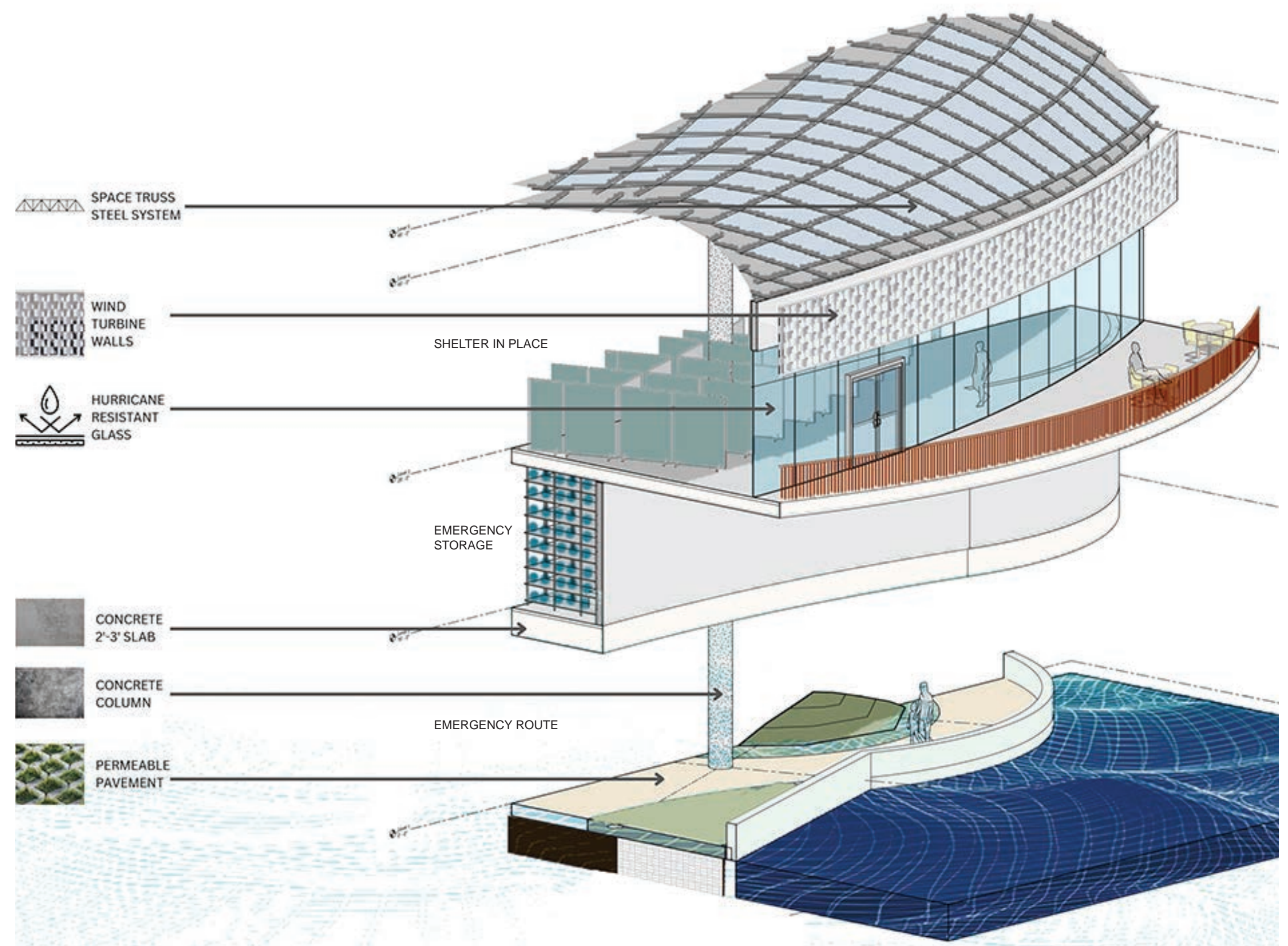
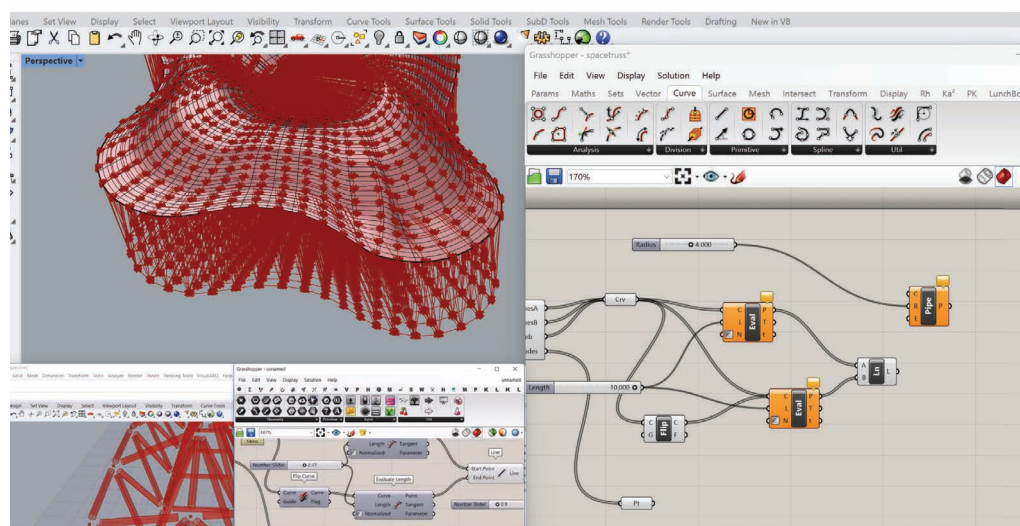
- OFFICES
- ASSEMBLY/SHELTER
- CAFETERIA
- SHELTER/MULTIPURPOSE



EAST LITTLE HAVANA

LEGEND

- 01** Grasshopper Plugin [dwg.]
- 02** Exploded Axonometric [rvt.]
- 02** Wall Section Detail [rvt.]



02

Multi Story Residential Farmer's Housing

CONCEPT TO REALITY

Course

Studio 8 : ARH 410 Housing & Integrated Design

Instructor

Paul Adamson

Site

San Francisco, CA

Semester

Fall 2022

Collaboration

Amy Velez, Drishti Bajla, Payam Shafajoo

Software

Rhino3D, Revit, Lumion, Photoshop, Illustrator

Statement

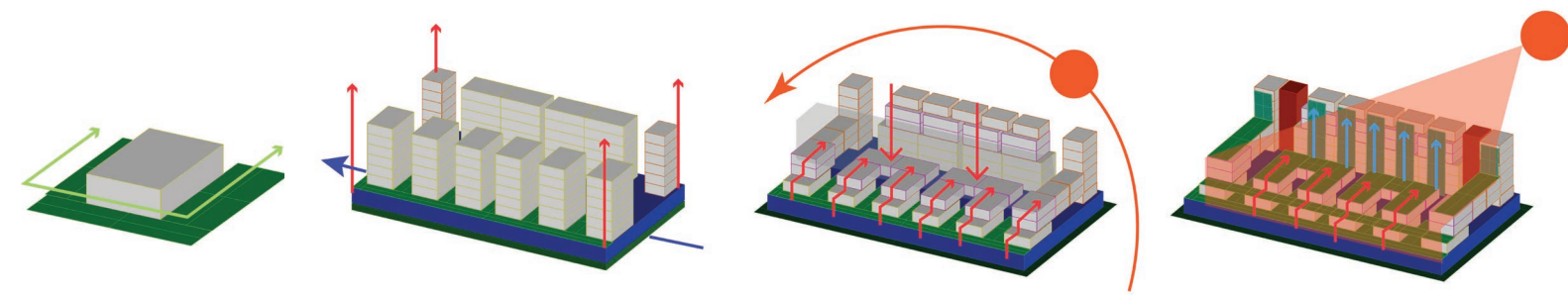
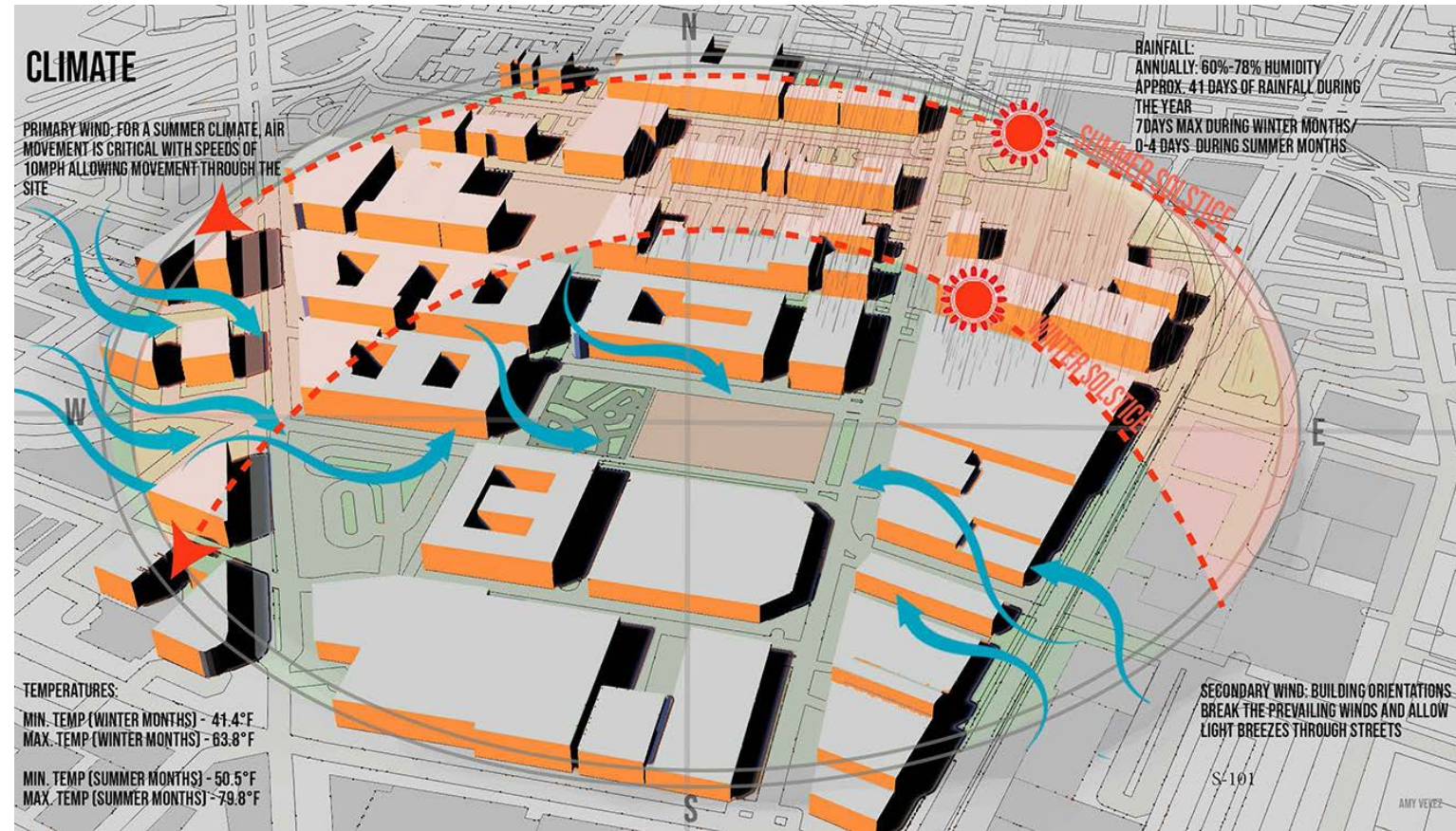
'Urban roots' addresses **food security issues** in the **Oakland Downtown community**, focusing on farmers and overall community. The design incorporates considerations for the local climate, specifying the types and sizes of plants suitable for the area. This project provides **affordable housing** for these users to experience farming needs, a healthier lifestyle, and supports community needs for lack of food security.

01_02_03_04



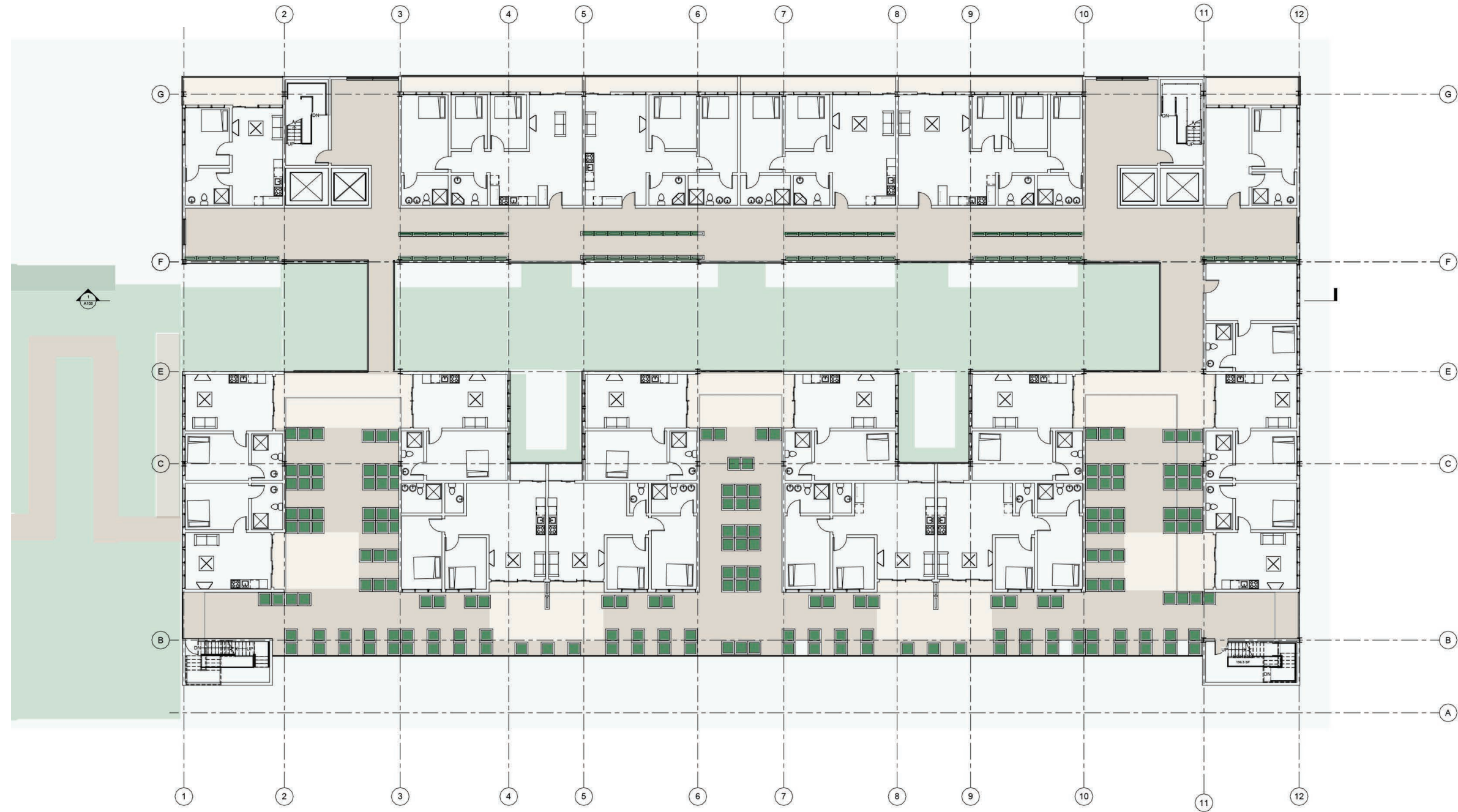
LEGEND

- 01** Sectional Perspective [rvt.]
- 02** Climate Sun Diagram [psd.]
- 03** Building Concept Protocol [3dm.]



LEGEND

- 01** Floor Plan [rvt.]
- 02** Unit Layouts [3dm.]
- 03** Living Space [3dm.]
- 04** Residential Farm [3dm.]

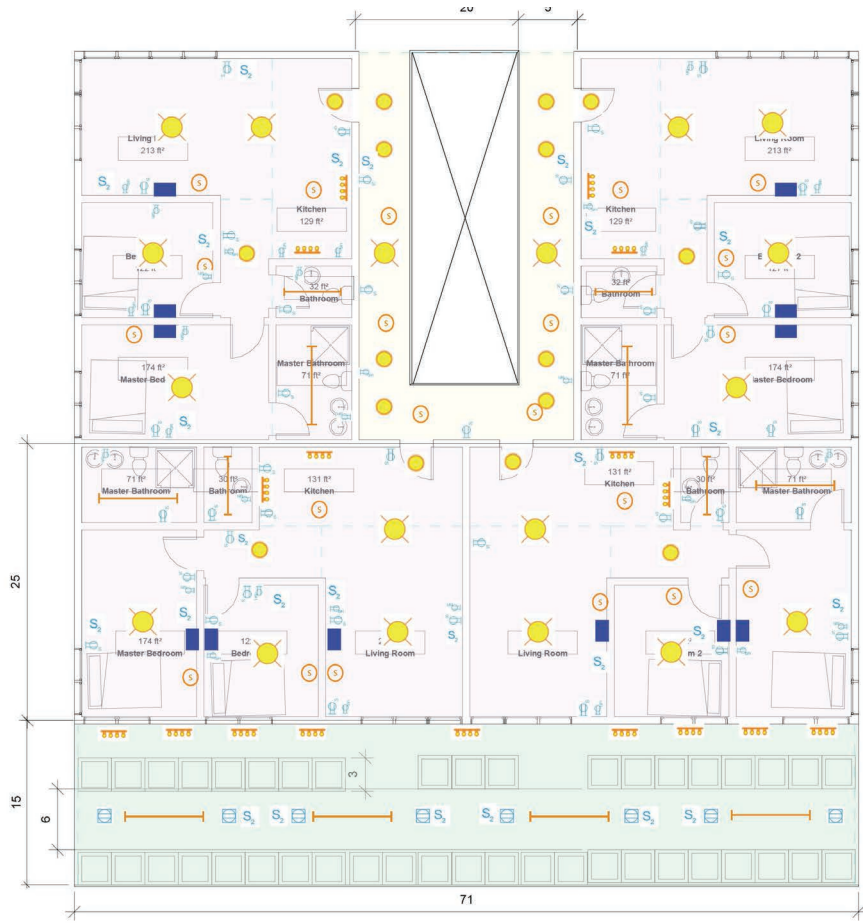


LEGEND

- 01** Electrical Floor Plan [dwg.]
- 02** Elevation [rvt.]
- 03** Sectional Perspective [3dm.]
- 04** Concept Sketch

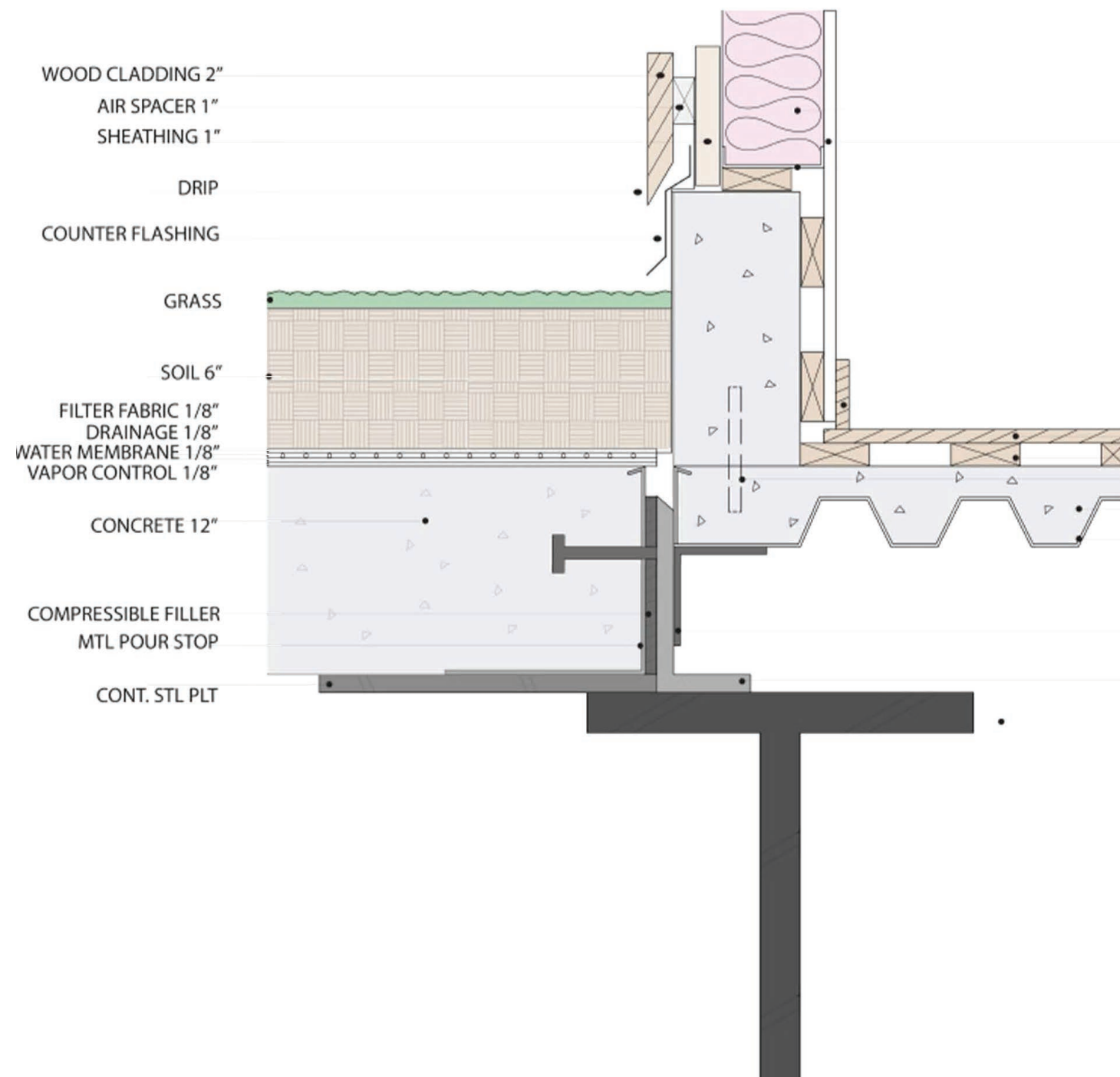
LUMINARIES KEY

	Smoke Detector/ Alarm		Ceiling light outlet
	Batten Florescent		Light mounted surfaced
	4 light bar		Cool Air Distribution
	Floor Mounted Light		Switch and Power Outlet
	Double Switch		GFCI Outlet



LEGEND

- 01** Wall Section Closeup Detail [dwg.]
- 02** Wall Section Hand Model [Model - Making]
- 03** Wall Section Detail [dwg.]

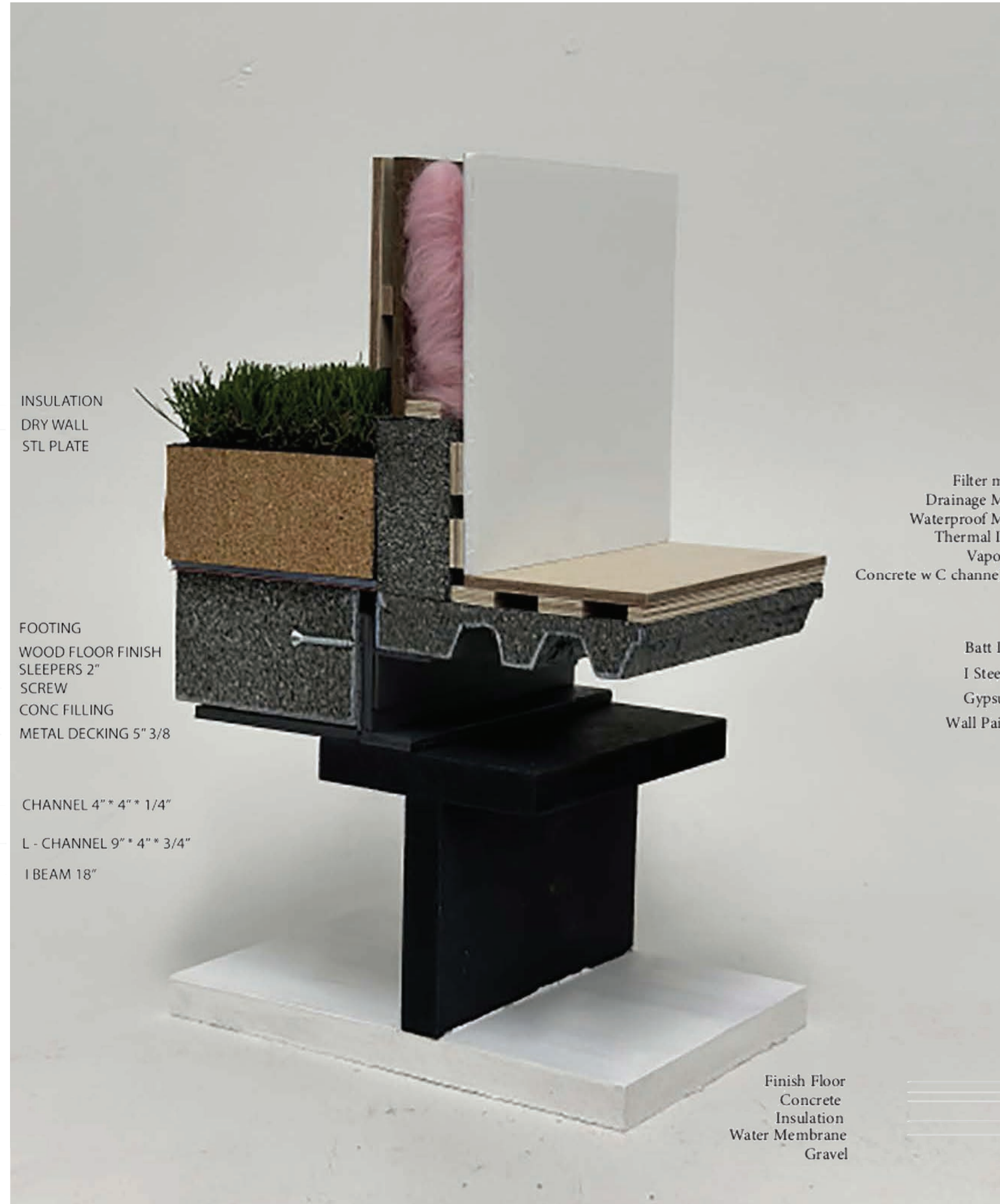


INSULATION
DRY WALL
STL PLATE

FOOTING
WOOD FLOOR FINISH
SLEEPERS 2"
SCREW
CONC FILLING
METAL DECKING 5" 3/8

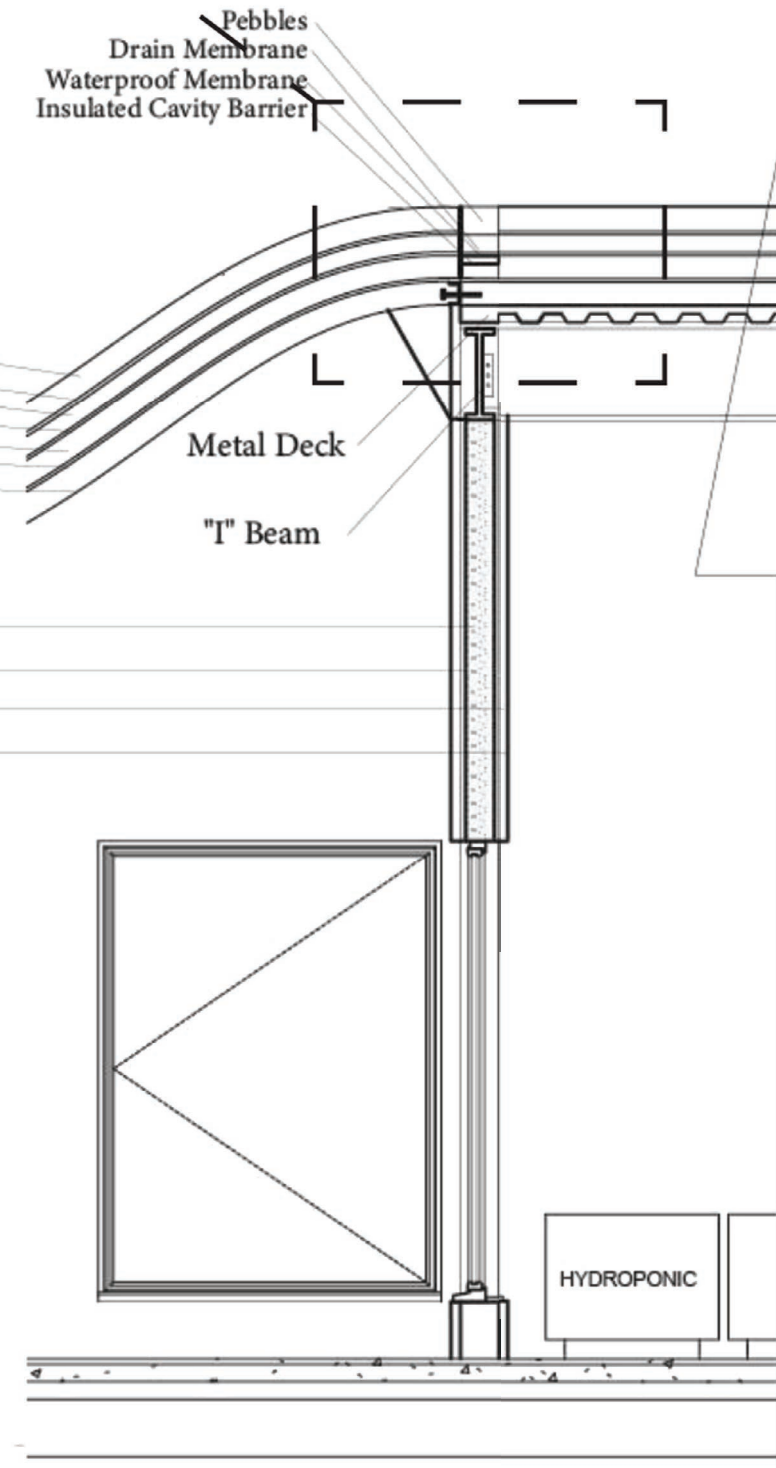
CHANNEL 4" * 4" * 1/4"
L - CHANNEL 9" * 4" * 3/4"
I BEAM 18"

Finish Floor
Concrete
Insulation
Water Membrane
Gravel



Soil
Filter membrane
Drainage Membrane
Waterproof Membrane
Thermal Insulation
Vapor Control
Concrete w C channel and Bolt

Batt Insulation
I Steel Column
Gypsum Board
Wall Paint/Finish



03

Multi Story Affordable Housing

CONCEPT TO REALITY

Course

Studio 7 : ARH

Instructor

Karen Seong

Site

San Francisco, CA

Semester

Spring 2022

Software

Rhino3D, Revit, Lumion, Photoshop, Illustrator

Statement

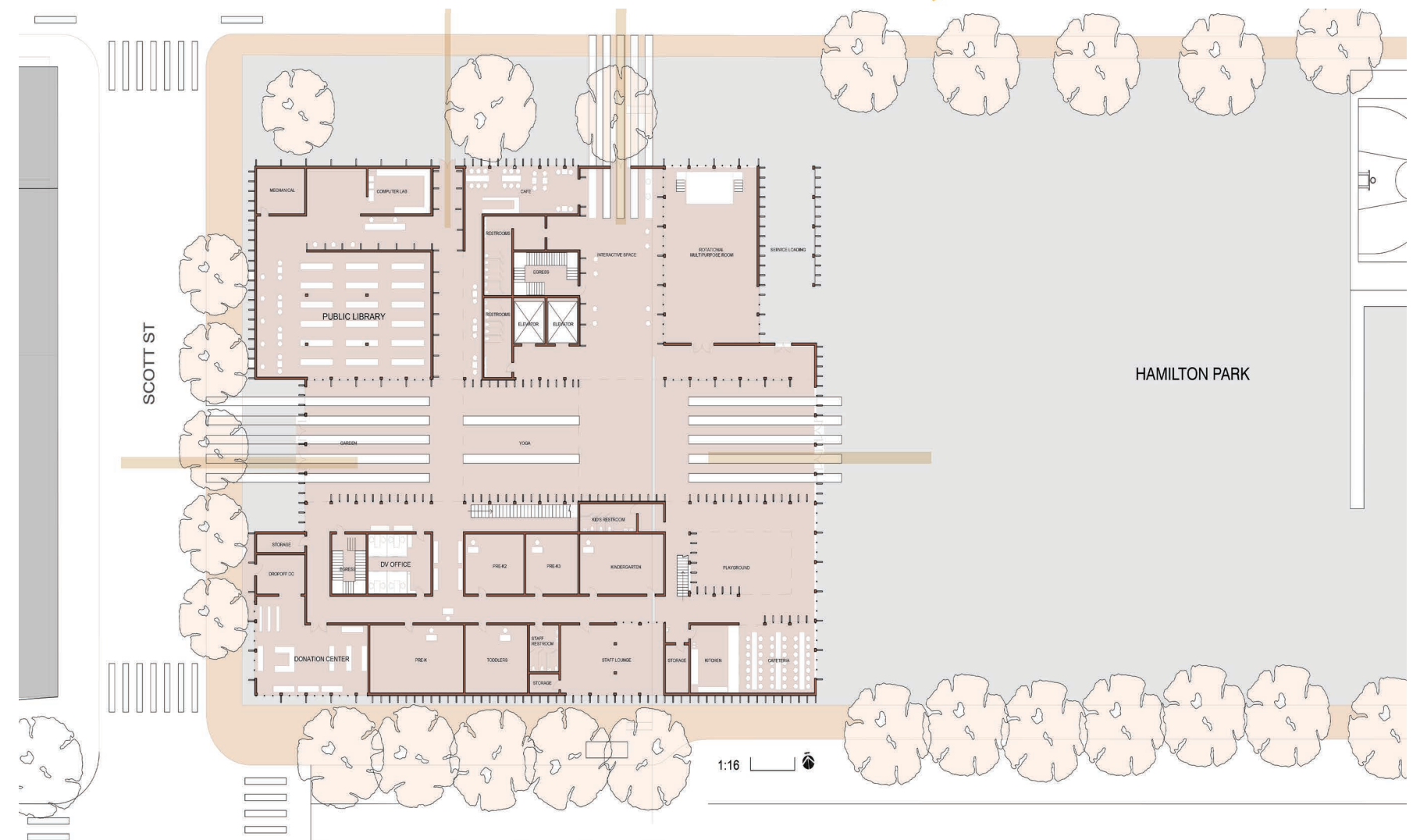
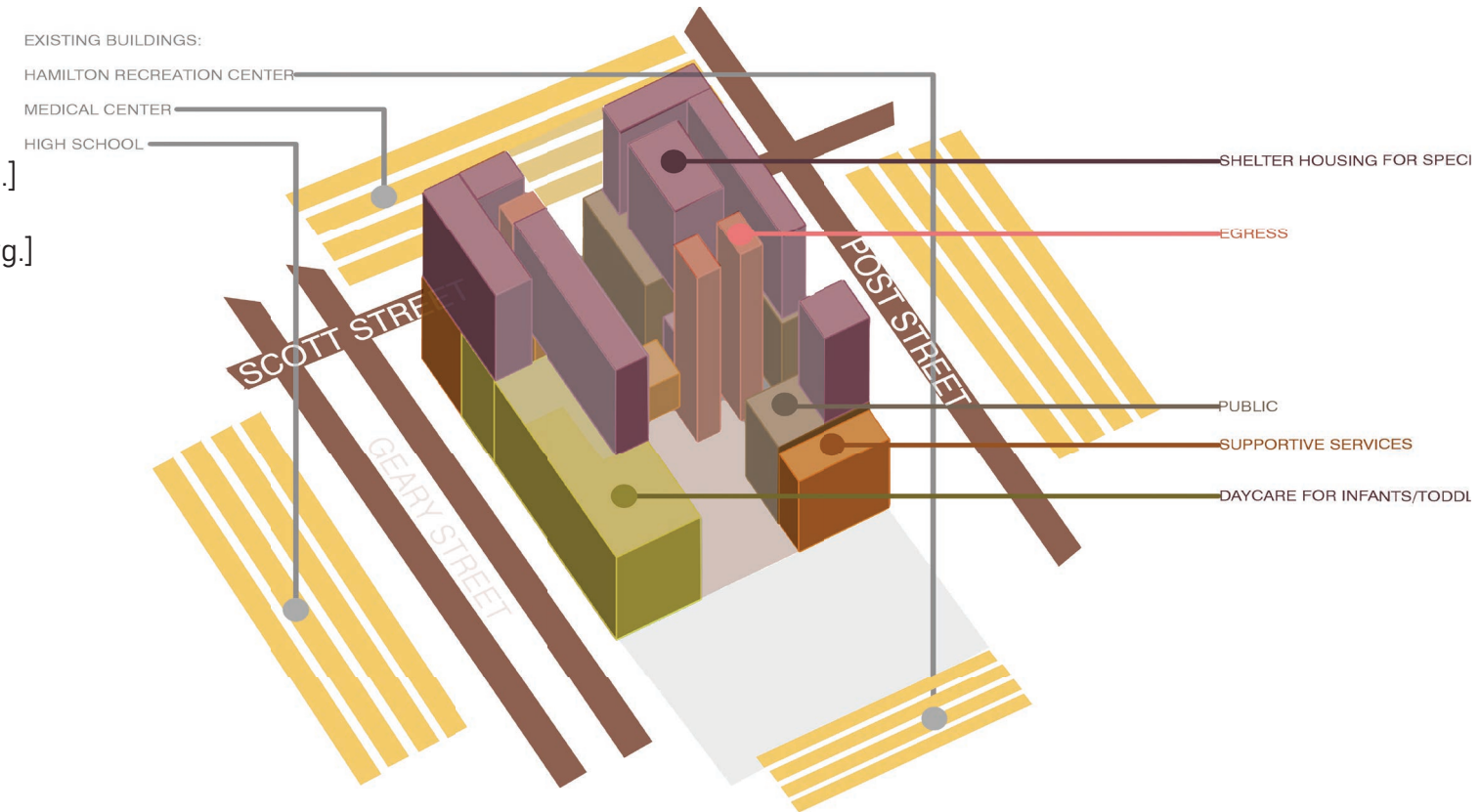
This project adeptly embodies the essence of "Warmth" through its inviting ambiance, fostering serenity and calmness within the spaces. Specifically tailored for **single mothers and children, it aims to create a nurturing and secure environment amidst sensitive traumas.** Delicate textures are employed to enhance both aesthetics and emotional well-being, seamlessly transitioning within the interiors to establish an intimate atmosphere. Furthermore, the inclusion of a wood canopy not only adds visual appeal but also contributes to the comforting qualities of the architecture, emphasizing its **dual role of beauty and psychological support.**

01_02_03_04



LEGEND

- 01** Section [dwg.]
- 02** Program Diagram [dwg.]
- 03** Drafting Floor Plan [dwg.]



04

Professional Work Affordable Housing & Healthcare Facility

CONCEPT TO REALITY

Firm

NovoSpazio Architects

Architect

Elizabeth Betancourt, Juan Zumarraga

Site

Galapagos Islands, Ecuador

Year

Winter 2022

Software

Rhino3D, Revit, Sketchup, Lumion, Photoshop,

AutoCAD

Recognition

Website Portfolio Links

Statement

Galapagos, Ecuador Proposal
2023 Competition Awarded & partnered with
NovaSpazio

During my internship, I actively collaborate with various stakeholders in a multifaceted project for a client's government **candidacy campaign**, encompassing the design development phases of **affordable living homes and a healthcare hospital**. By addressing the specific challenges and opportunities presented by the Galapagos landscape, the project aims to provide not just shelter but a thoughtful integration of living spaces and a healthcare facility that resonate with the cultural and environmental context of the region.

01_02_03_04

ADEQUATE FOR ME



LEGEND
01 Healthcare Facility - 3D Model / Signage / Materiality / Drafting
02 Affordable Home - 3D Model / Materiality / Drafting

