

WORK



PAGE:

PROJECT:

INFO:

06

**MICROHOME
COMPETITION
(MIGRANTS)**

Location:
South Facing Walls
Area:
270 sq-ft.
Typology:
Tiny House

12

**GALVESTON
MARKET**

Location:
Galveston, Texas
Area:
25,000 sq-ft.
Typology:
Market/Restaurant

20

**JOHN
LEWIS
CENTER**

Location:
Atlanta, Georgia
Area:
13,000 sq-ft.
Typology:
Public Exhibition

28

**WAUGH
BRIDGE BAT
OBSERVATORY**

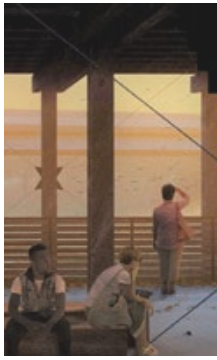
Location:
Houston, Texas
Area:
5,000 sq-ft.
Typology:
Observatory

34

**HOUSTON
EXPLORATION
CENTER**

Location:
Houston, Texas
Area:
30,000 sq-ft.
Typology:
Library

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CALEB MATHESON

B.A. Architecture
University of Houston
(2017-Present)



AWARDS

AIA Fort Worth - 2020 Student Design Awards *****
Merit Award for Design Excellence (Lewis Center)

EXPERIENCE

Z4Z4 Architects
Madrid, Spain
(1/20 - Present)

Design Intern

- > Created early conceptual drawings to represent design ideas
- > Crafted presentation models to illustrate schematic design concepts to clients
- > Reproduced drawings of existing buildings for remodeling purposes

Session One
Art & Music
(May 2019)

Principal Organizer

- > Negotiated with venue owner to set terms and pricing
- > Lead various teams to ensure a seamless experience between art installations and music
- > Established the event's social media marketing plan

Soapbox
Art Show
(April 2018)

Event Designer

- > Designed an expressive environment for hundreds of attendants
- > Worked with 6 collaborators to create an art platform for dozens of artists.
- > Planned the event layout (seating, art placement, signage)

SKILLS

Design:

Rhino, Grasshopper, Auto-CAD, Adobe Suite, Revit, Lumion, MS Office, Blender

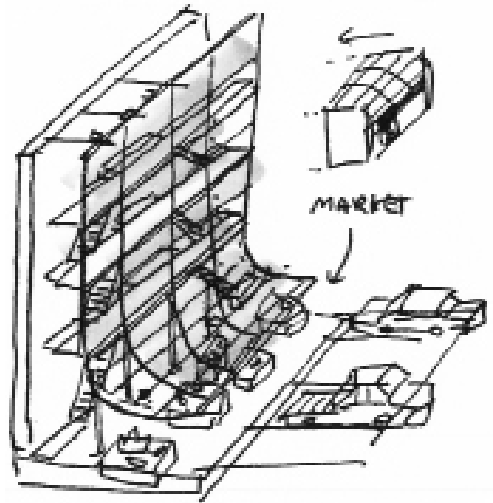
Media:

graphic design/typography, motion graphics, video/photography, audio production

Fabrication:

sketching, 3d Printing, laser cutting, model making, CNC milling

01

MICROHOME
COMPETITION
(MIGRANTS)

Nomadic tiny homes
bringing the perks
of off-grid living
to the big city.

Location:

South Facing Walls

Area :

270 sq-ft.

Typology :

Tiny House



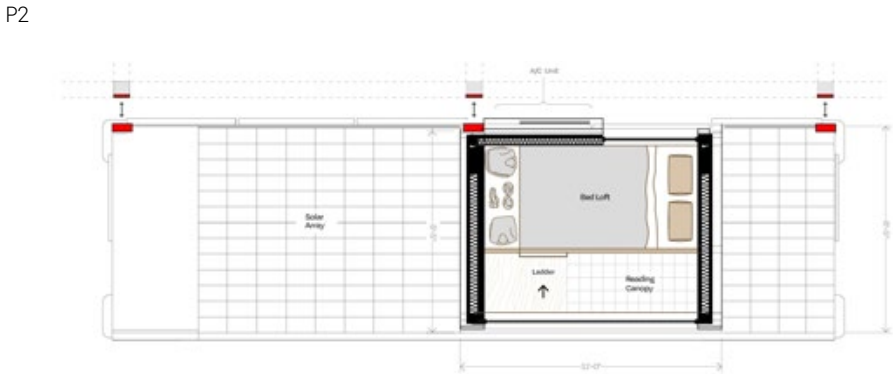
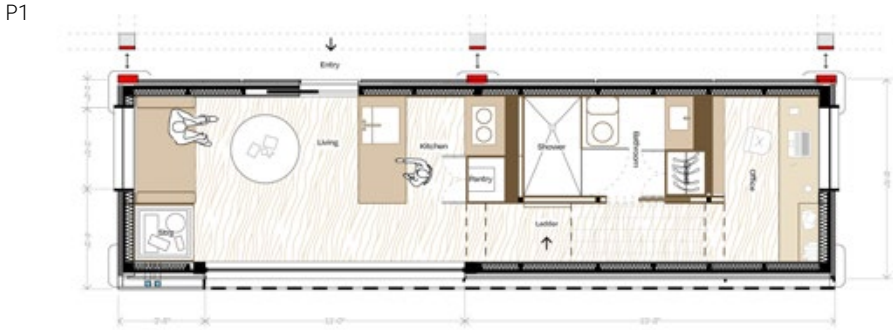
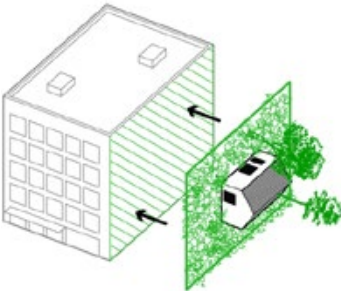


NOMADIC

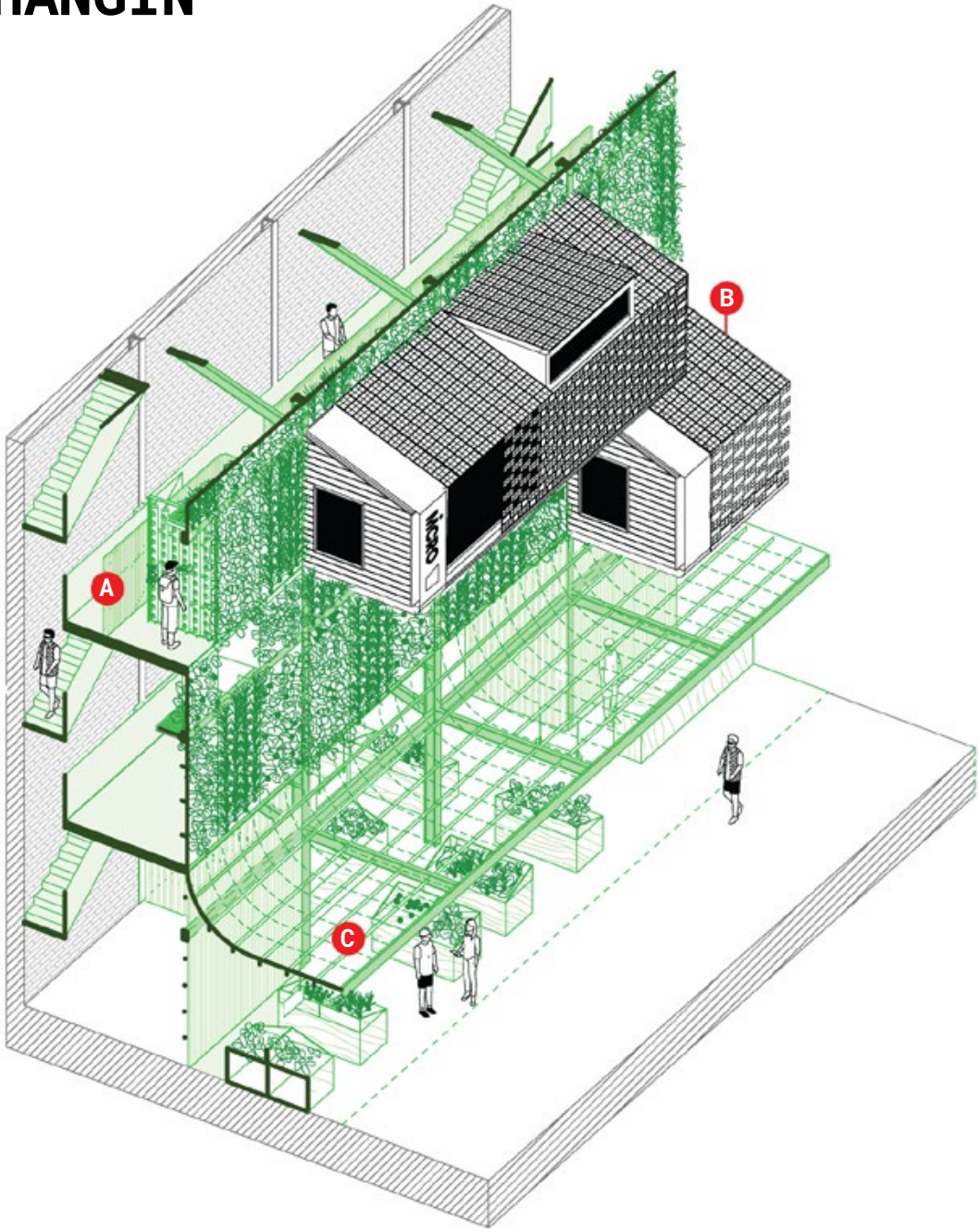
TRADITIONAL
OFF-GRID



URBAN
OFF-GRID



JUST HANGIN'



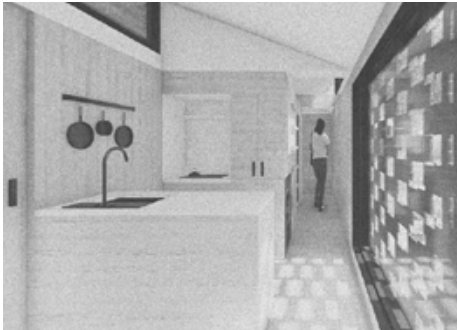
A
VERTICAL FARMING

Man harvests vegetables from the walls built-in aeroponic system.



B
WHOLESOME LIVING

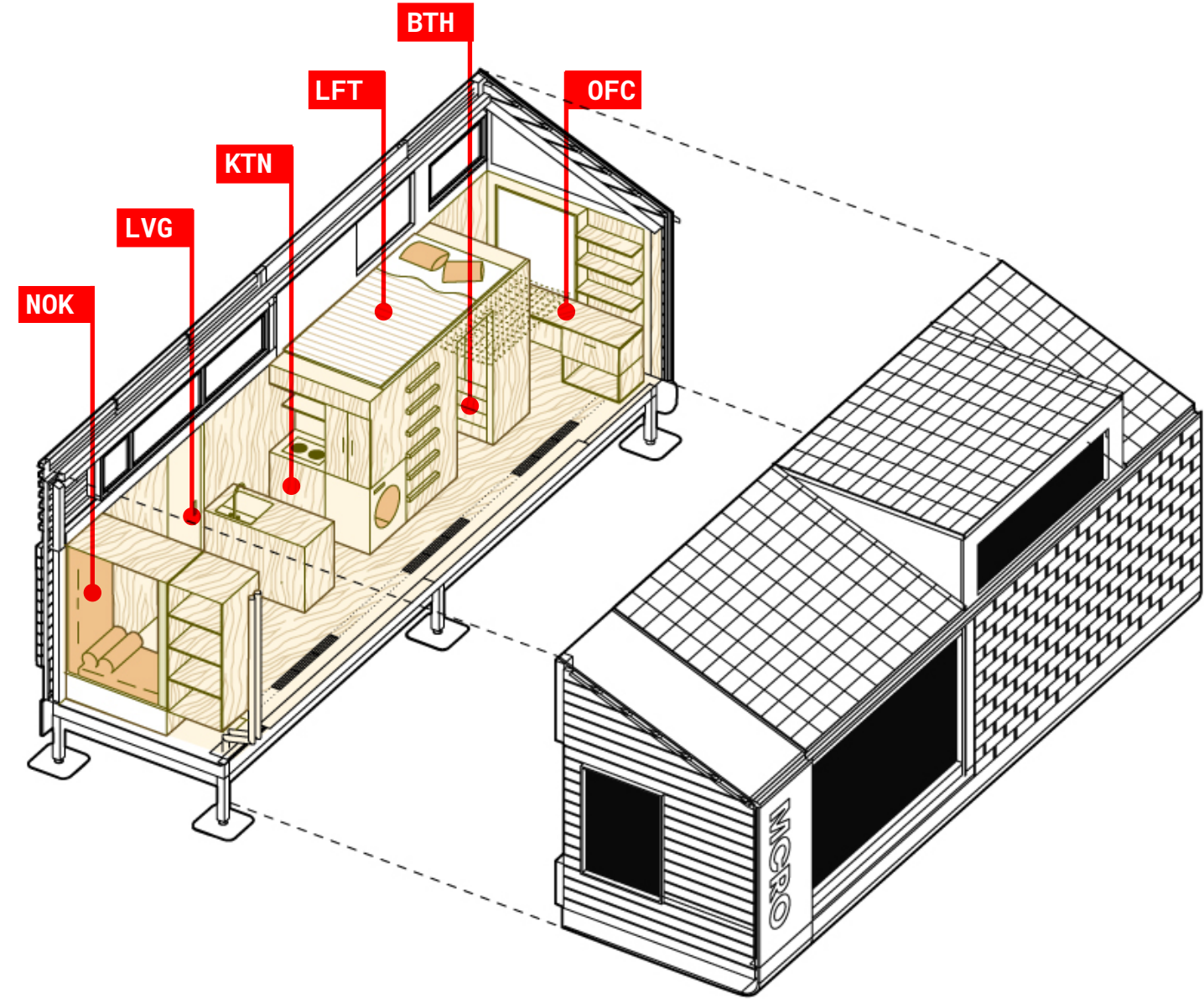
Woman waters house plants before going for her evening walk.



C
GREAT NEIGHBOR

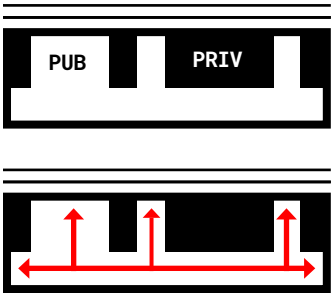
Locals browse the excess produce at the market under the microhomes.





SPACE PLANNING

SCHEMATICS



PROGRAM

- NOK - Reading Nook
- LVG - Living Room
- KTN - Kitchen
- LFT - Bed Loft
- BTH - Bathroom
- OFC - Office

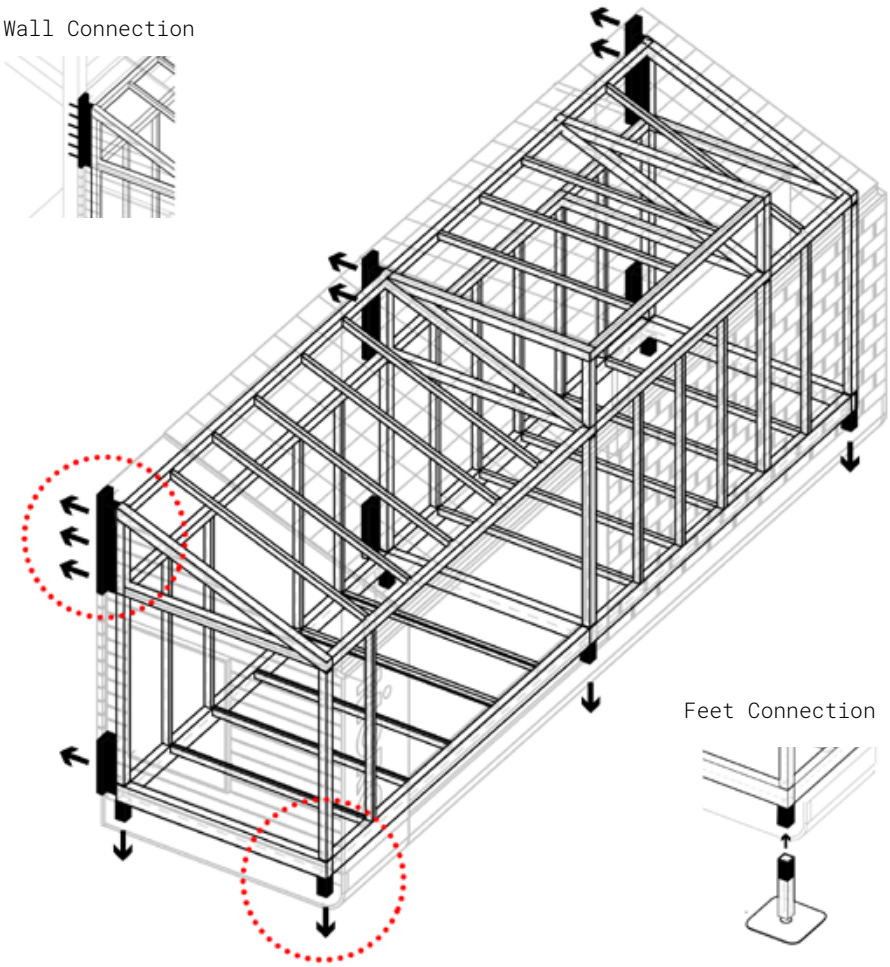
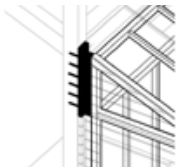
PUB/PRIV

All heavy program is pushed against the north facade to limit loading on urban wall structure.

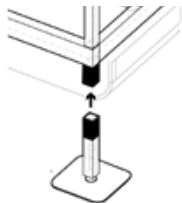
GREEN ON THE GO

STRUCTURE

Wall Connection

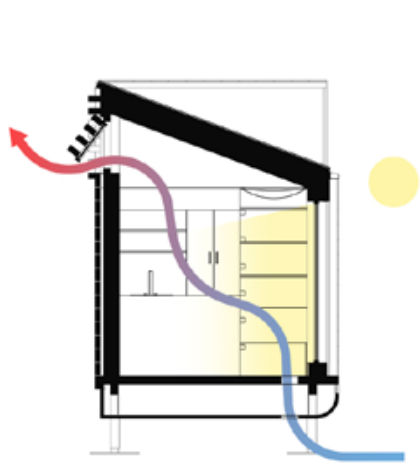


Feet Connection



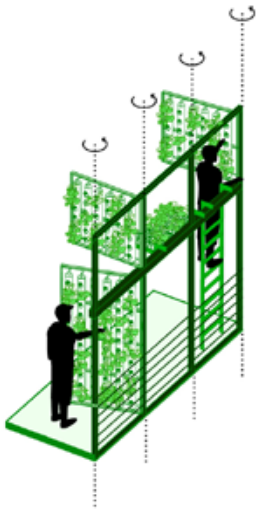
PASSIVE VENTILATION

Inlet in the floor allows cool air to enter the space, and operable clerestory window exhausts hot air



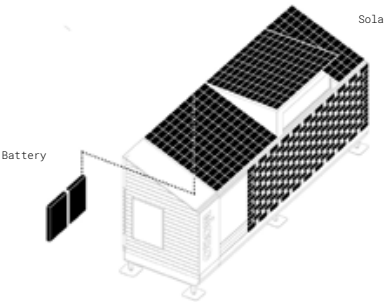
URBAN WALL FARMING

When connected to the wall in the city, homeowners have access to their own vertical farm.



ABUNDANT SOLAR

3-5 kWh solar array provides plenty of energy to run all appliances including small A/C unit



SOLAR CELL SHADING

The solar array on the south facing facade doubles as a flexible active shading system.

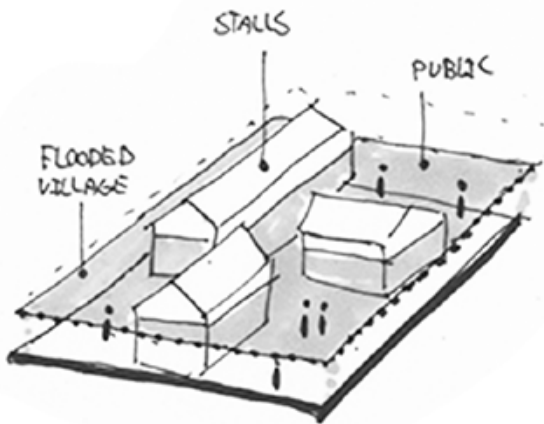


WATER COLLECTION & STORAGE

Water is collected by the roof/ gutter system and stored underneath in ~2000gal tank.



02

GALVESTON
MARKET

Public market tasked with unifying two disconnected portions of flood prone Galveston, Texas

Location:

Galveston, TX

Area :

25,000 sq-ft.

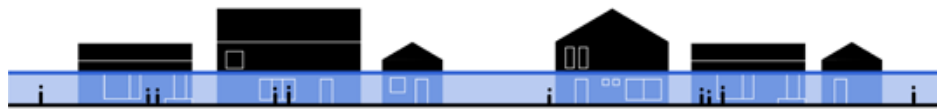
Typology :

Market\
Music Venue



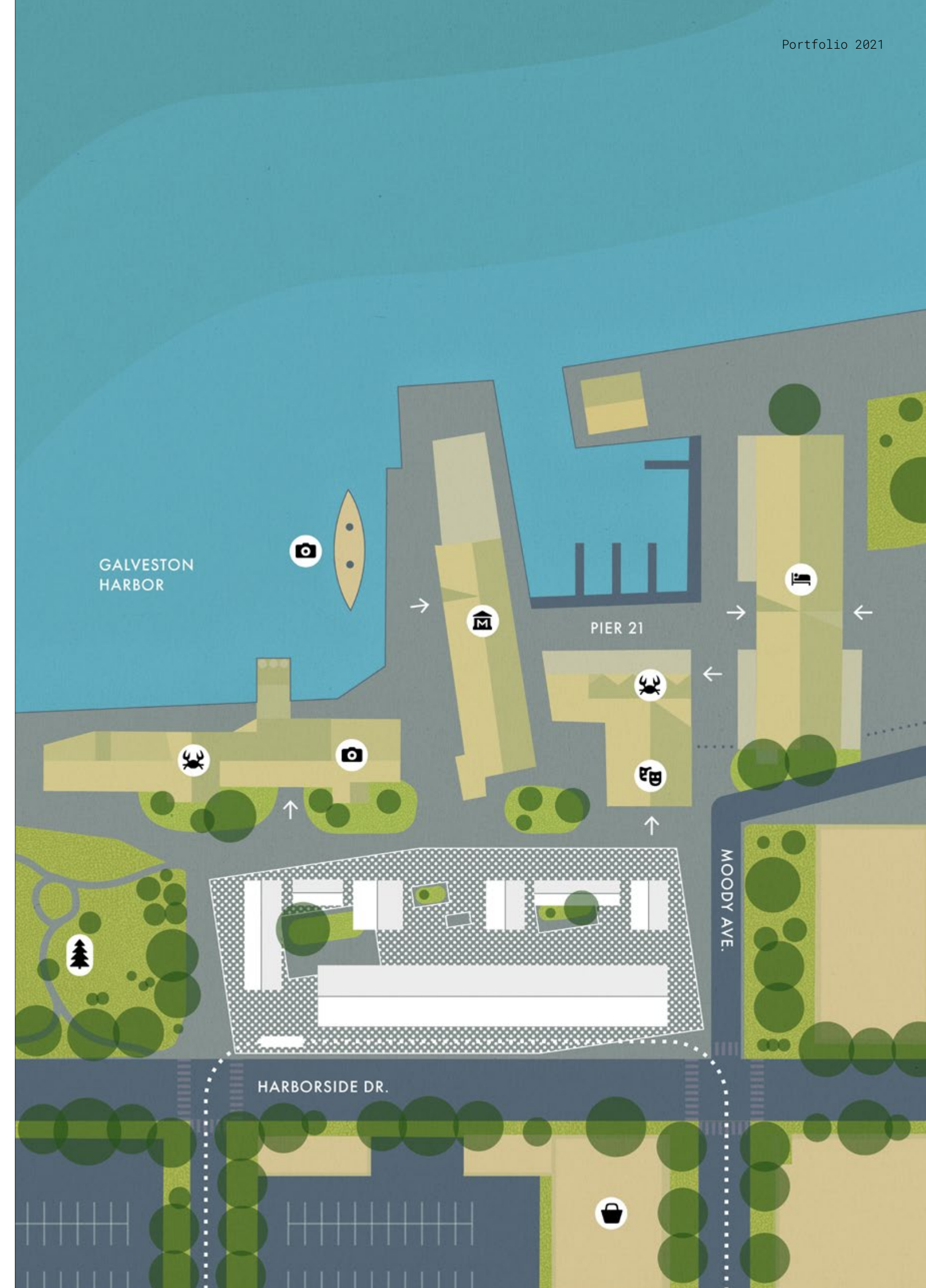
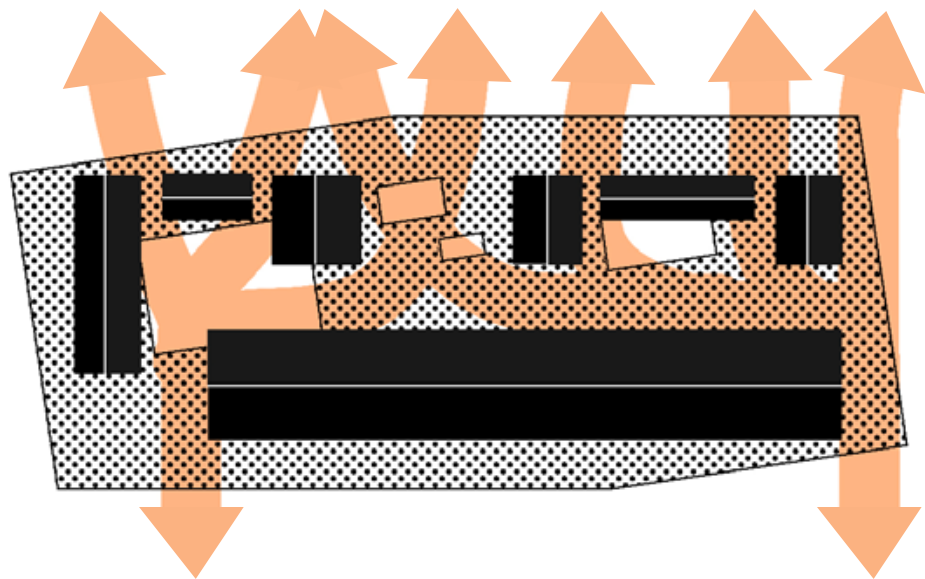
FLOODED VILLAGE

Sited along Galveston's flood prone harbor; the proposal uses the motif of a flooded coastal village to unify two disconnected portions of downtown Galveston.



THE LINK

The project filters pedestrians through the outdoor market as they travel from the shopping district to harbor-side entertainment at Pier 21.

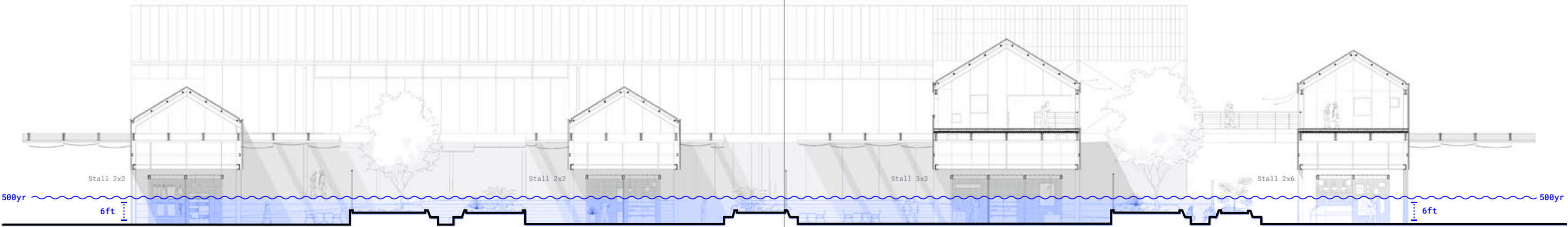


GALVESTON
MARKET

WELCOME TO
THE LAND
DOWN UNDER

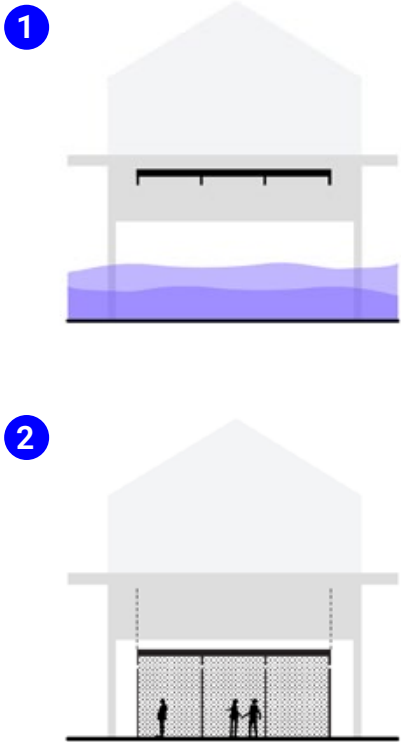


FLEXIBLE FLOOD PROTECTION



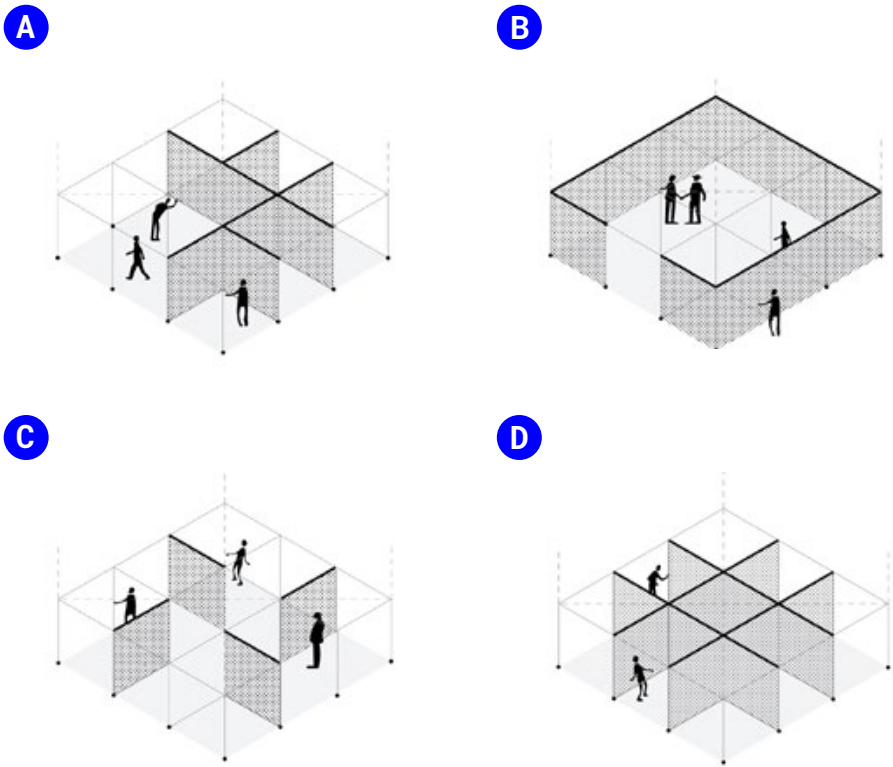
TEMPORARY STALLS

To protect against frequent high water; conditioned spaces were raised 6 feet above ground. Flexible market stalls enable quick assembly and disassembly in times of crisis.

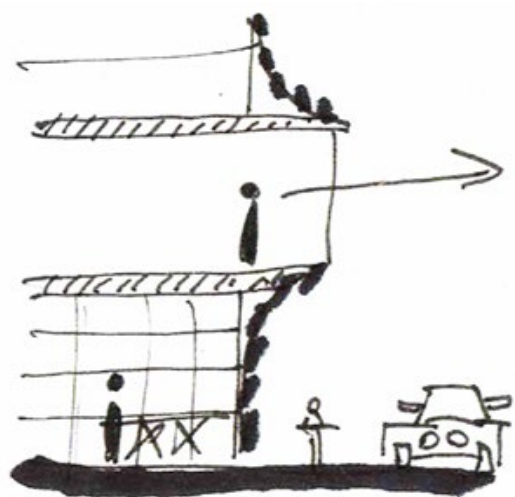


MODULAR PARTITIONS

The stall system enables hundreds of potential stall configurations. This versatility helps the project adapt quickly to the changing needs of the vendors.



03

LEWIS
CENTER

Cultural space aiming to honor and retain the legacy of John Lewis in Atlanta's historic Sweet Auburn District

Location:

Atlanta, GA

Area :

13,000 sq-ft.

Typology :

Public Exhibition

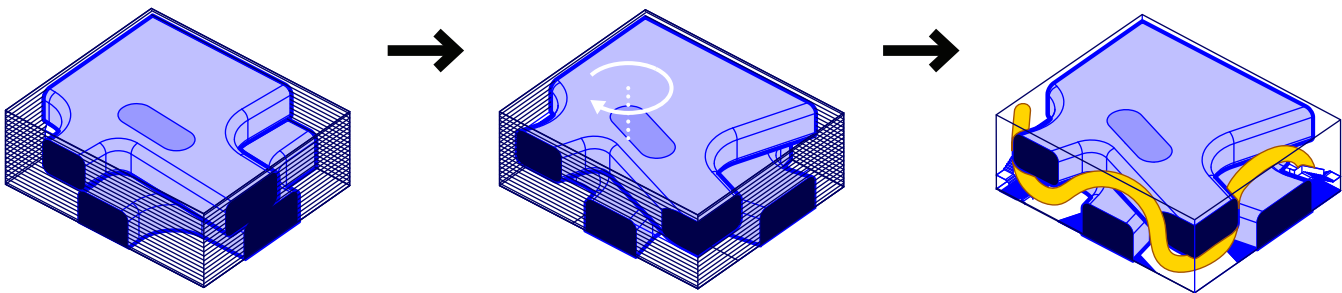
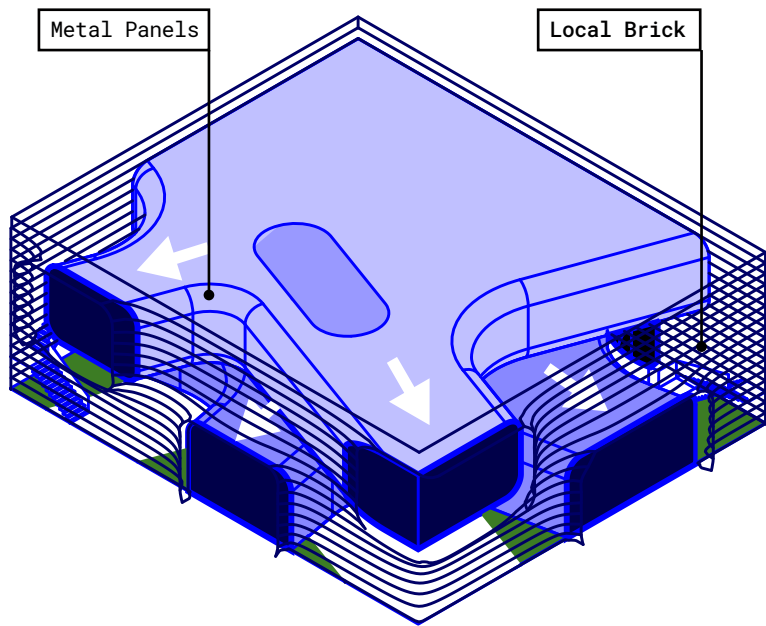


LOCAL BRICK BUILDINGS



PUSHING THE BOUNDARY

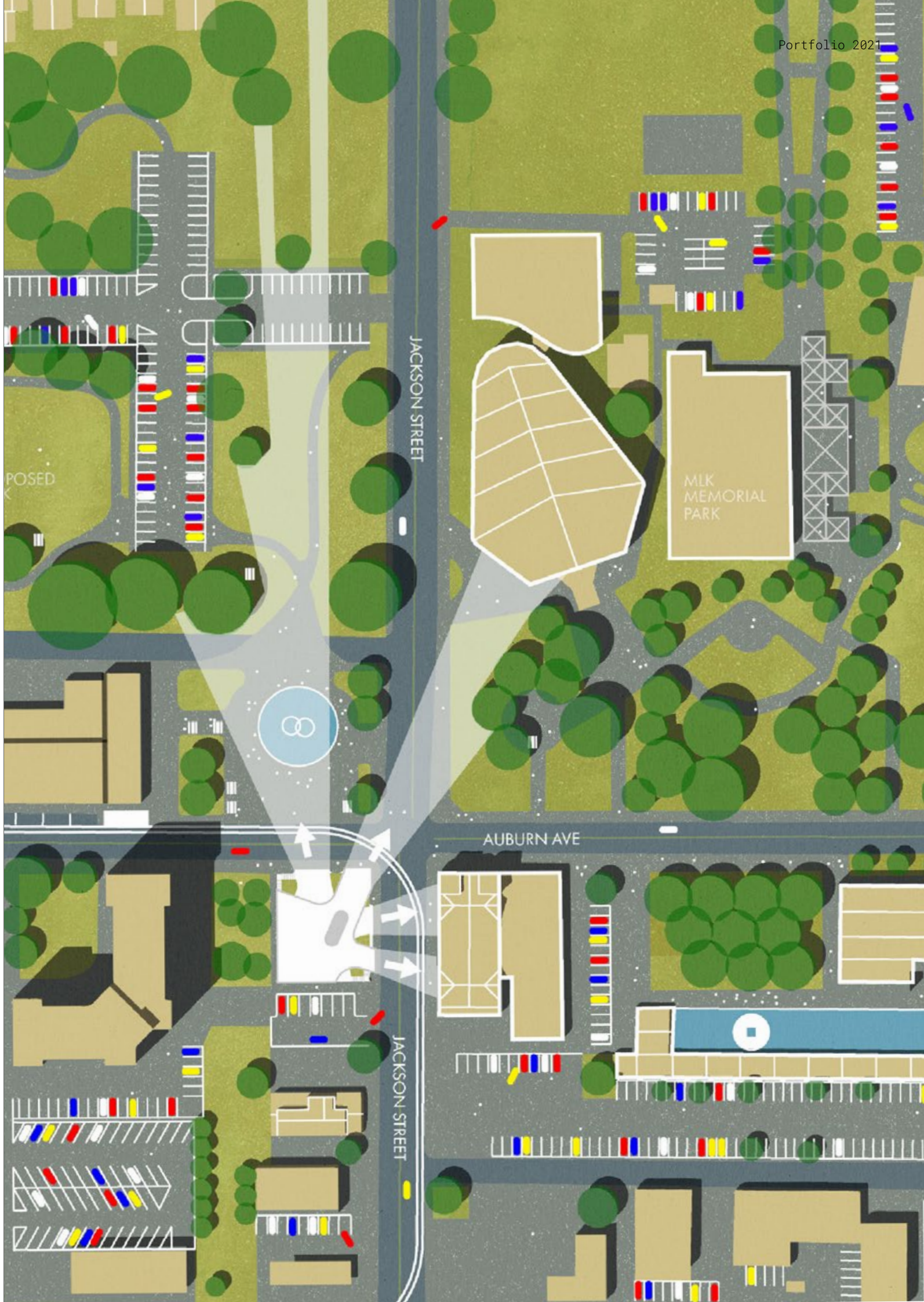
Lewis Center consists of a Progressive metal panel architecture Pushing against a boundary of local brick and out into the community.

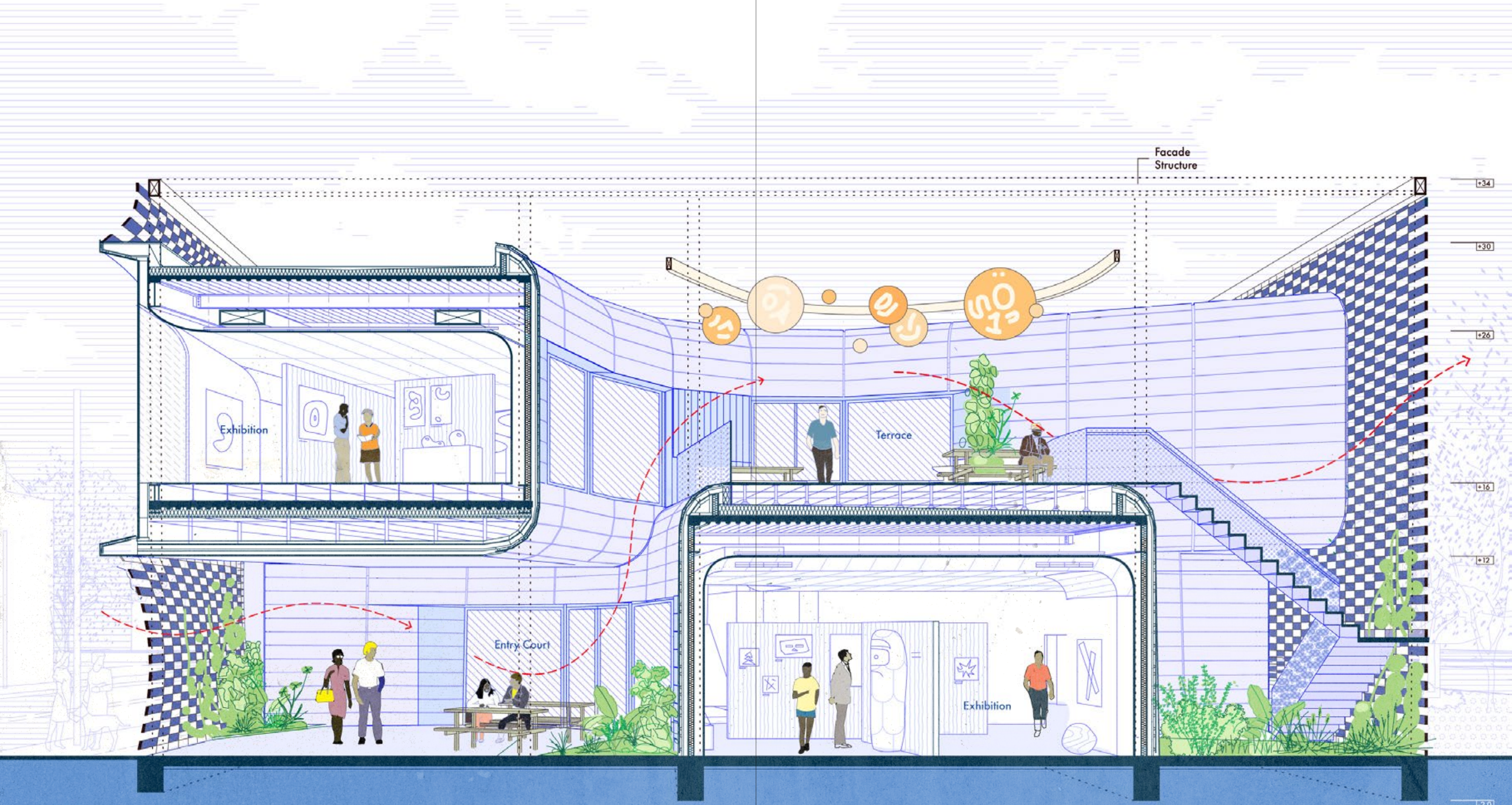


Progressive architecture inside a conventional shell

Orient openings towards key site features.

Dynamic social spaces are created.



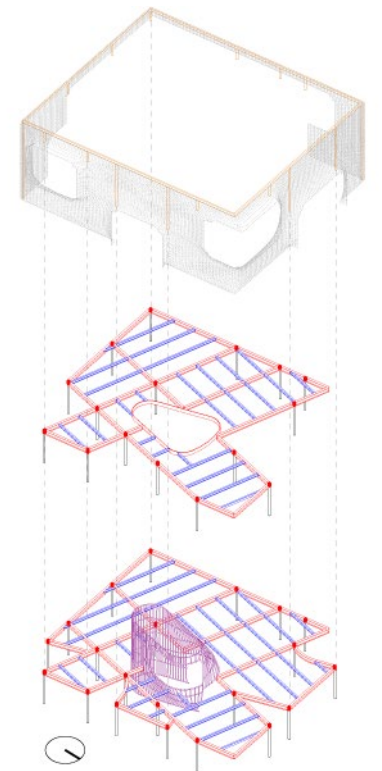


MAKE YOUR VOICE HEARD

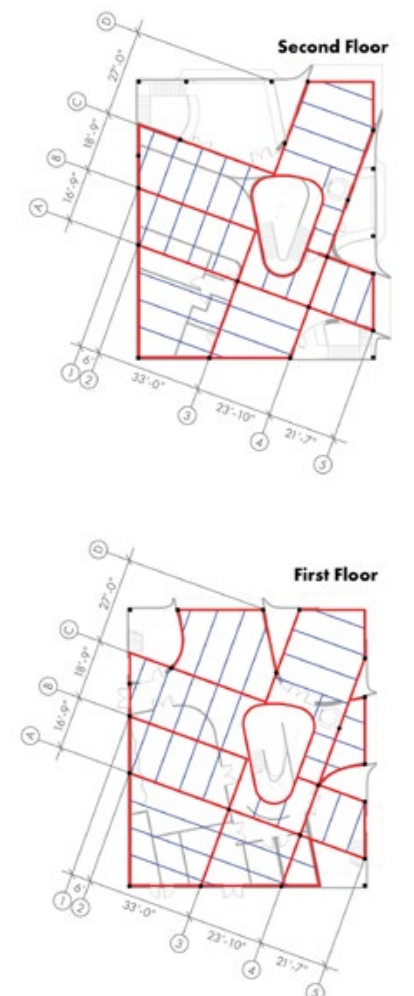
Lewis Center thrusts its exhibition spaces against its most public facades. These exhibitions aim to give members of the community a space to express themselves and their ideas.



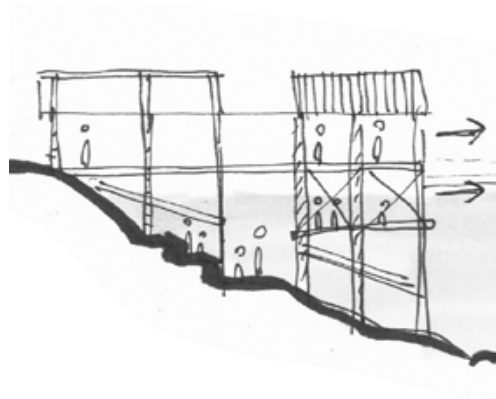
P2



P1



04

**WAUGH
BRIDGE BAT
OBSERVATORY**

Observation structure with its sights set on Houston's largest colony of Mexican Free-Tailed Bats.

Location:

Houston, TX

Area :

5,000 sq-ft.

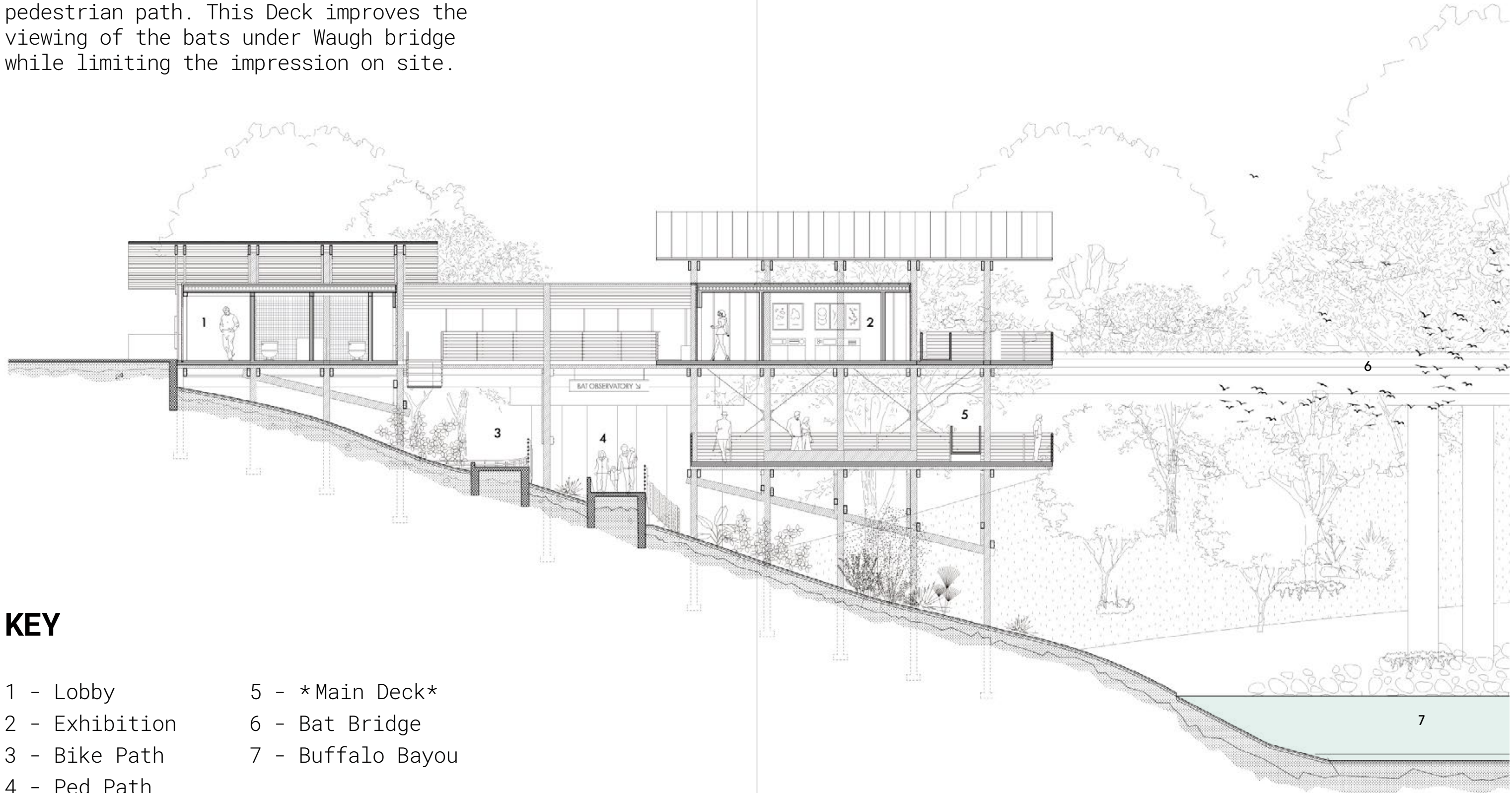
Typology :

Library



ONE WITH THE BATS

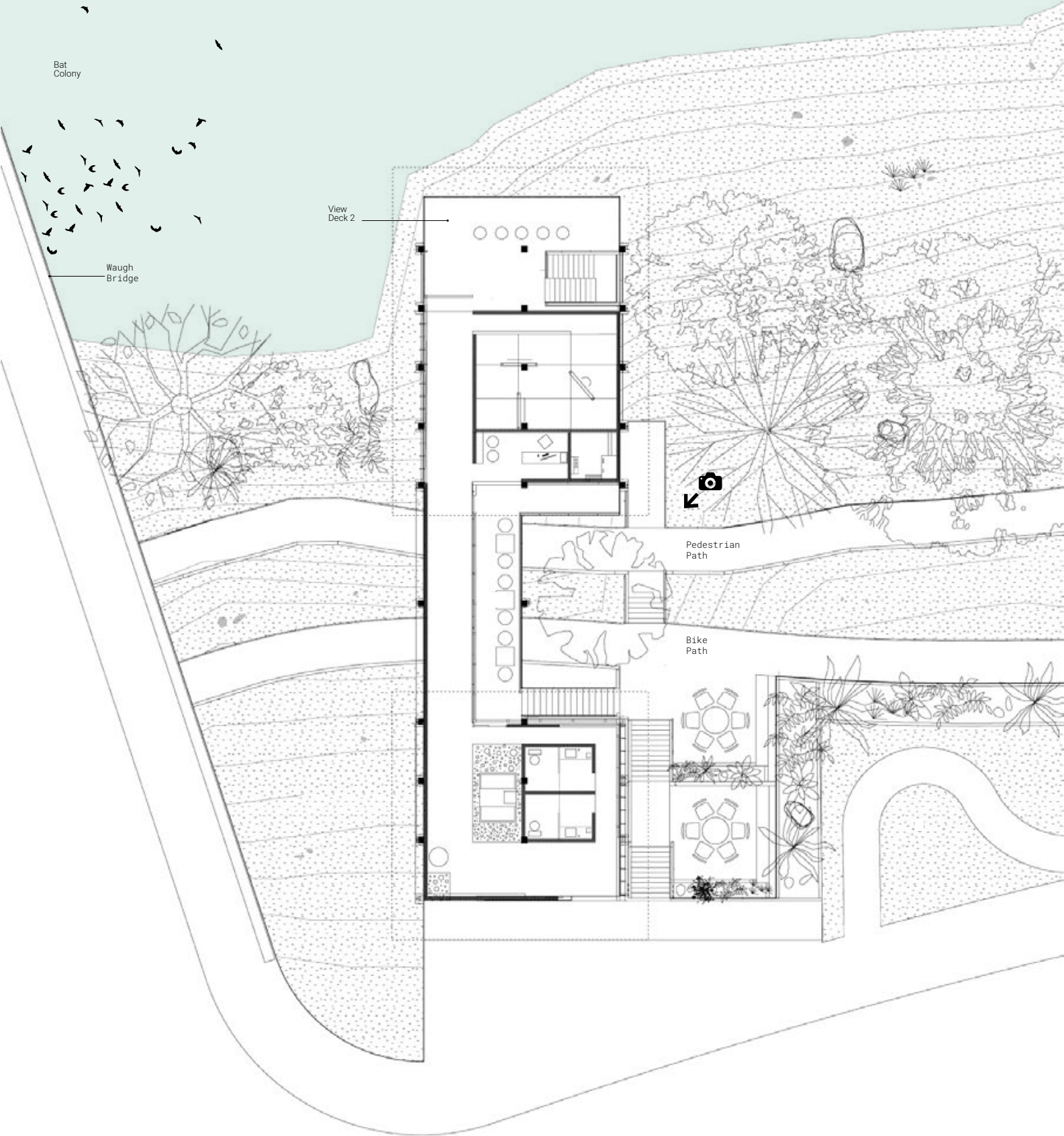
The Projects observation deck sits elevated directly off the existing pedestrian path. This Deck improves the viewing of the bats under Waugh bridge while limiting the impression on site.



KEY

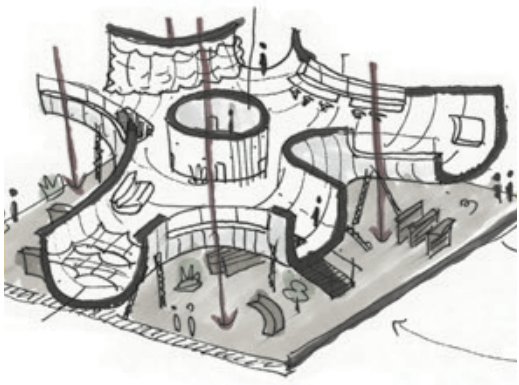
- 1 - Lobby
- 2 - Exhibition
- 3 - Bike Path
- 4 - Ped Path
- 5 - *Main Deck*
- 6 - Bat Bridge
- 7 - Buffalo Bayou

URBAN
RETREAT



05

HOUSTON EXPLORATION CENTER



Public Library
celebrating the
intersection between
physical and virtual
modes of learning.

Location:

Houston, TX

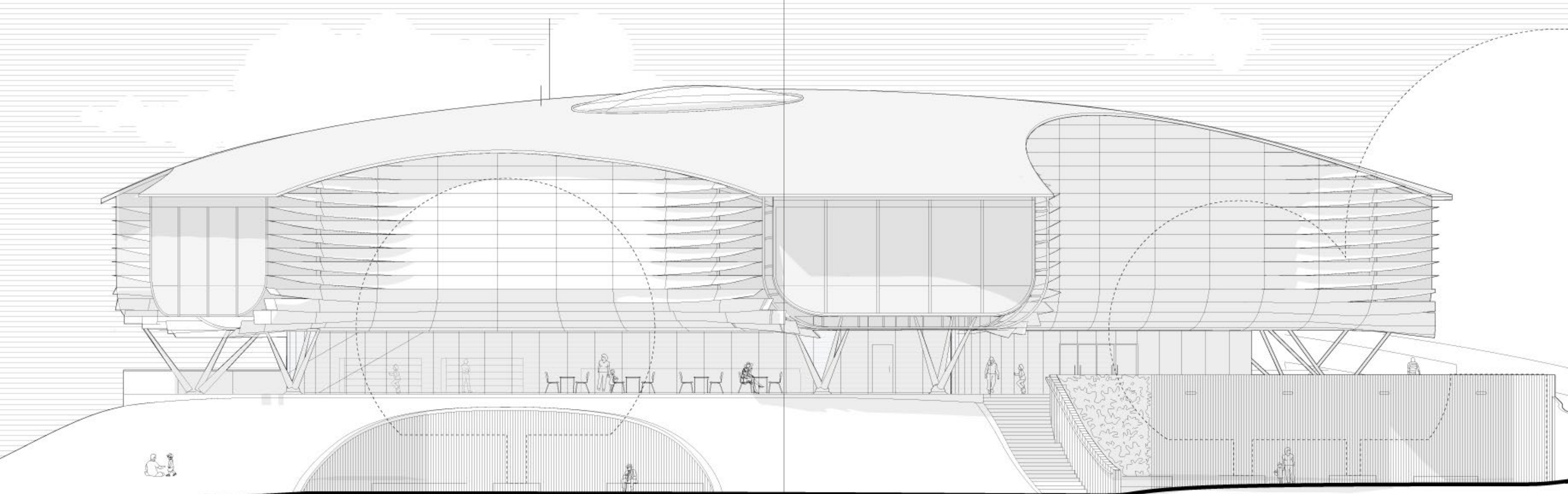
Area :

30,000 sq-ft.

Typology :

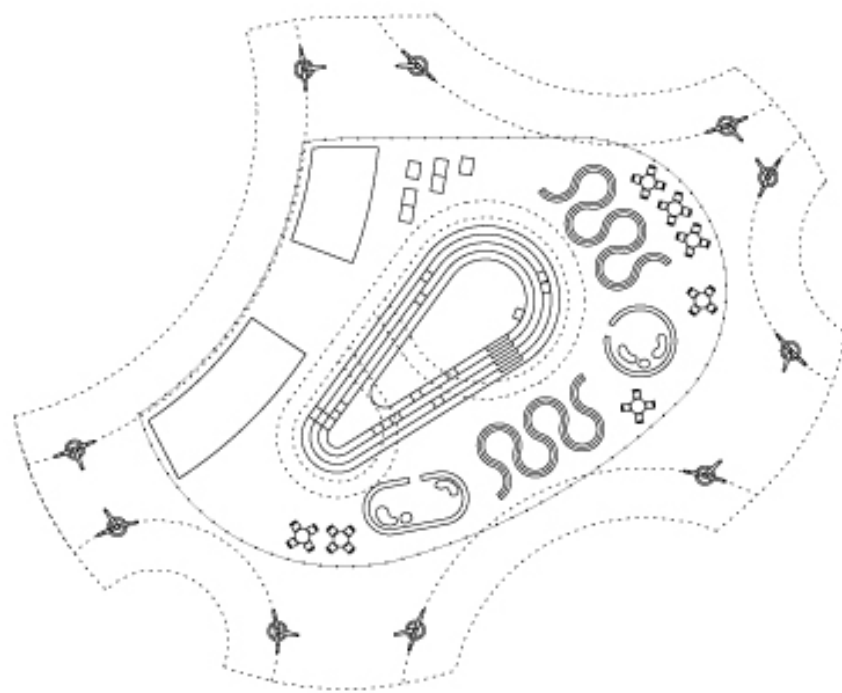
Library





TREE HUGGER

Houston Exploration Center cradles the existing trees on site creating intimate outdoor spaces looking out onto Jackson Hill park and Houston's iconic skyline.



Portfolio

**A collection of
hypothetical
buildings designed
between 2018 - 2020**



Art / Architecture / Design

