

Jonathan Chu
portfolio



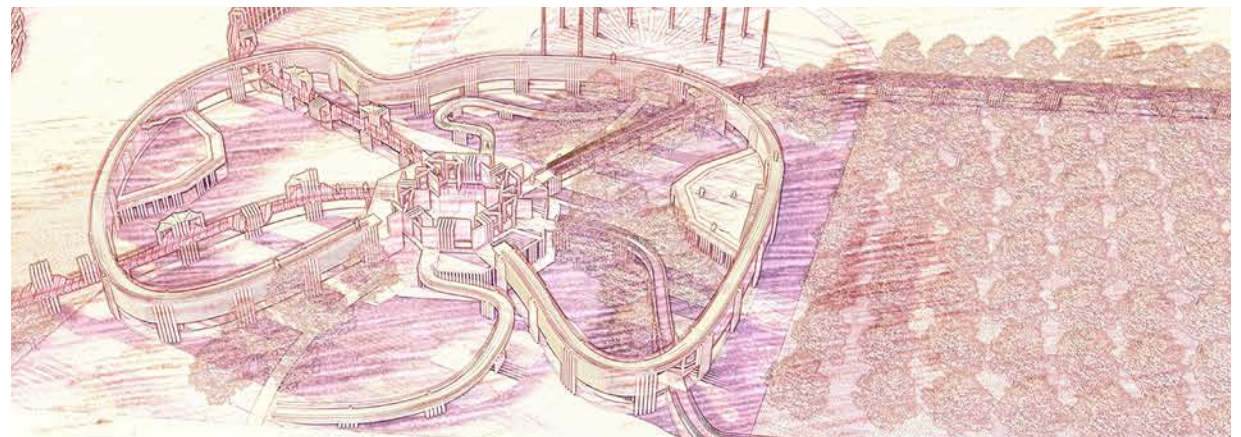
selected works
Year 1 - Year 3



The Capillaries



Marisol



Switches

Jonathan Chu

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linkedin.com/in/jontc

(862) 384-6398

PROFESSIONAL EXPERIENCE

Intern - Parikh Architectural Designs, Parsippany NJ

MAY 2023 - JUNE 2023 | JAN. 2024

- Developed high quality renders featured on the firm's website.
- Designed a 25m² off-grid home with rainwater collection and PV cells.
- Off-grid home made use of space over canals to prevent water evaporation.

ACADEMIC POSITIONS

Urban Design Student Researcher & Drafter - NJIT, Newark NJ

JAN 2025 - MAY 2025

- Drafted and iterated ideas for urban development near EWR train station.
- Assisted in producing an informational video for Airport City Newark Coalition.
- Animated 3D renderings of urban developments to reach a general audience.

VOLUNTEERING

Treasurer - AIAS NJIT Chapter, Newark NJ

JUN 2025 - PRESENT

- Set up advance payment method for chapter's plotting service to prevent unpaid orders.
- Managed service prices to balance profit and affordability for students.

Volunteer - Mtn. Lakes Public Library Makerspace, Mtn. Lakes NJ

JULY 2021 - PRESENT

- Modeled blind-accessible 3D school & homeless shelter floor plans.
- Created a paper-based modular kit for kids to design small cities.
- Created a safe and fun electrical circuit crafting activity for kids.

EDUCATION

New Jersey Institute of Technology | GPA 3.95

SEP. 2023- MAY. 2028

- B.Arch | Hillier College of Architecture and Design
- Dorman Scholar | Albert Dorman Honors College
- Business Minor
- Sustainability Minor

SKILLS

Architectural Design
Urban Planning
Project Management
Marketing

SOFTWARE

Rhino
Revit
Illustrator
Photoshop
InDesign
Lumion
V-Ray
Microsoft Office

HOBBIES

Photography
Rubik's Cube
Cardistry

PORTFOLIO



archinect.com/jontc

AWARDS

Gold Award (Student Edition)

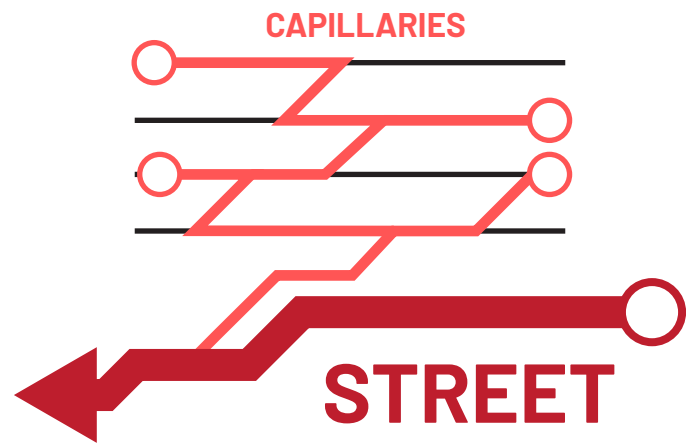
AIA Newark-Suburban, 2025

Architecture Excellence in Design Award (1st Year)

NJIT, 2024

Travisano Scholarship in Design

NJIT, 2024



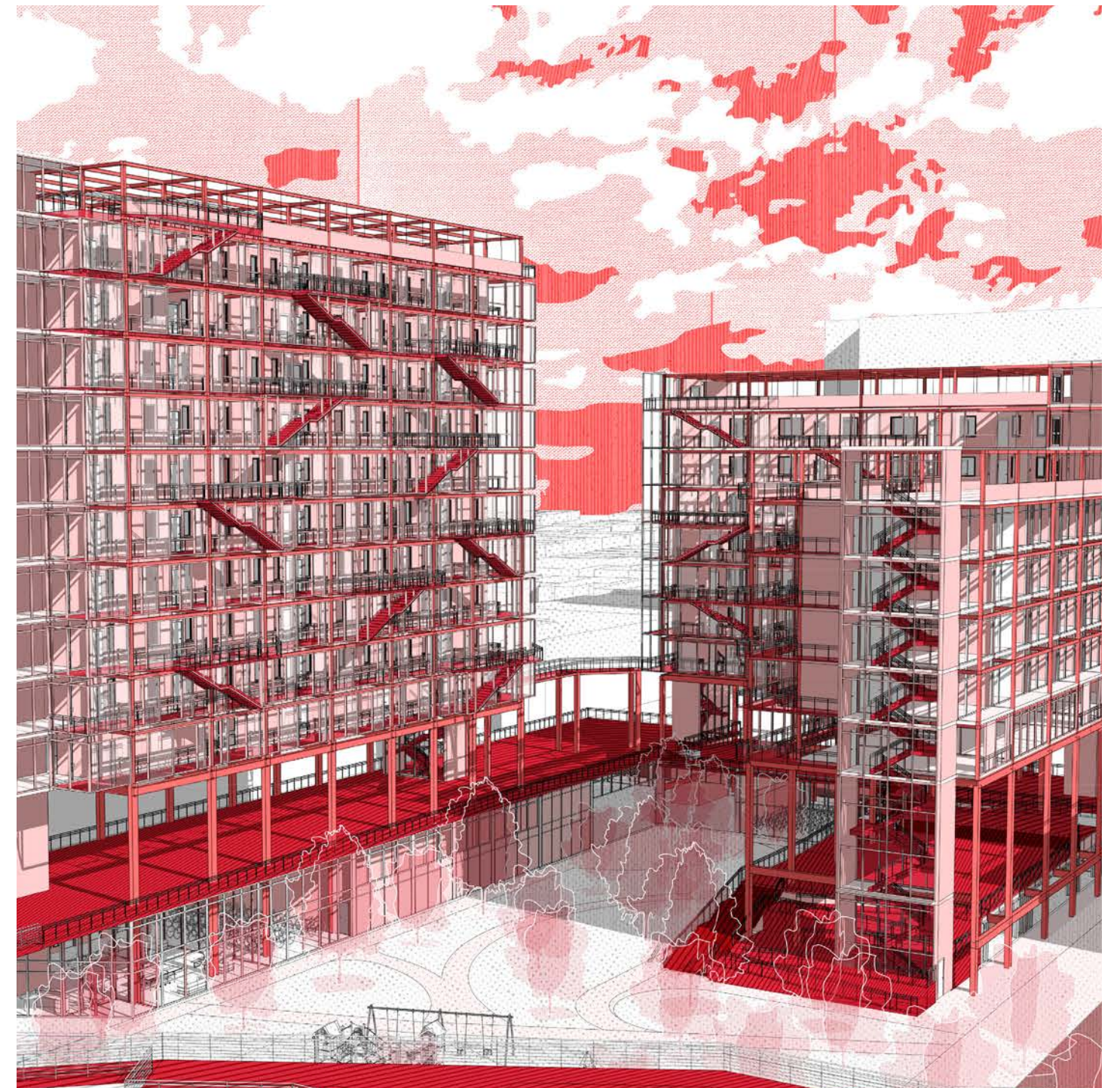
the capillaries

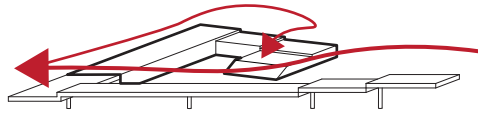
Mixed-Use Housing

Fall 2025

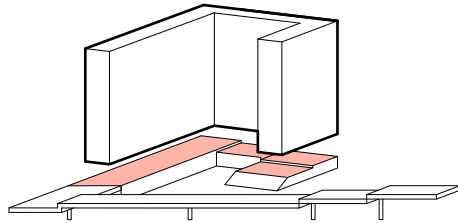
Architecture Studio V

The Capillaries iterate upon the idea of streets in the sky by using “capillaries in the sky” to feed residential circulation into a larger shared public way. This is made possible by extending the proposed Mulberry Pass into an exit ramp-like promenade down to the center of of the site’s public activity. The structure protrudes from the facade, forming gallery-access hallways that visually connect public and private movement.

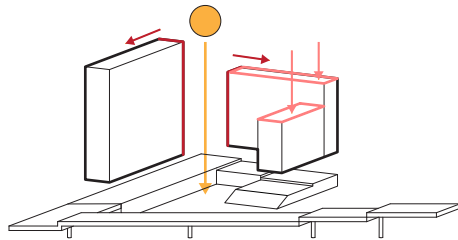




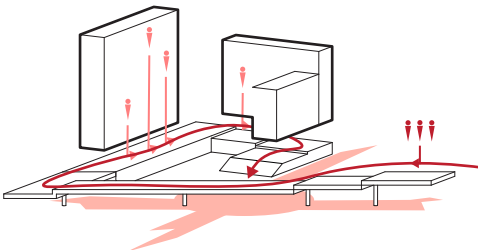
extend mulberry pass with an exit ramp-like podium



elevate residential spaces to maintain public space below



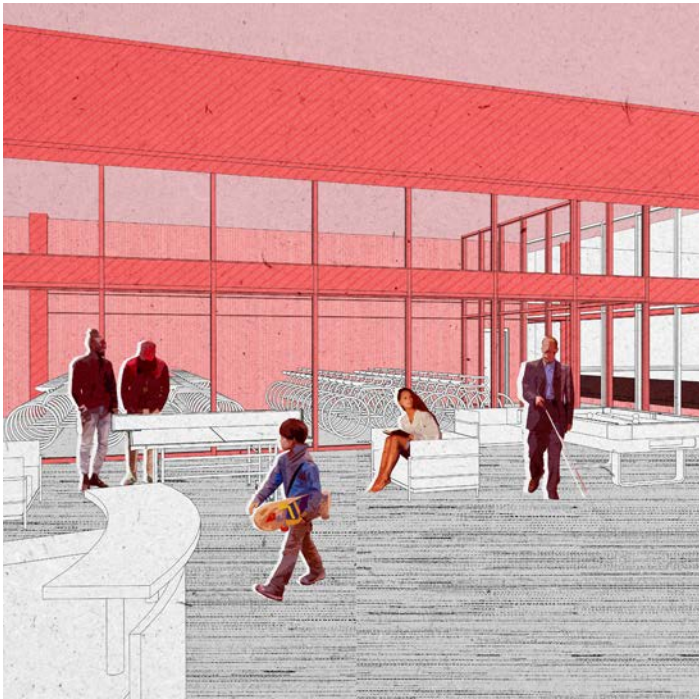
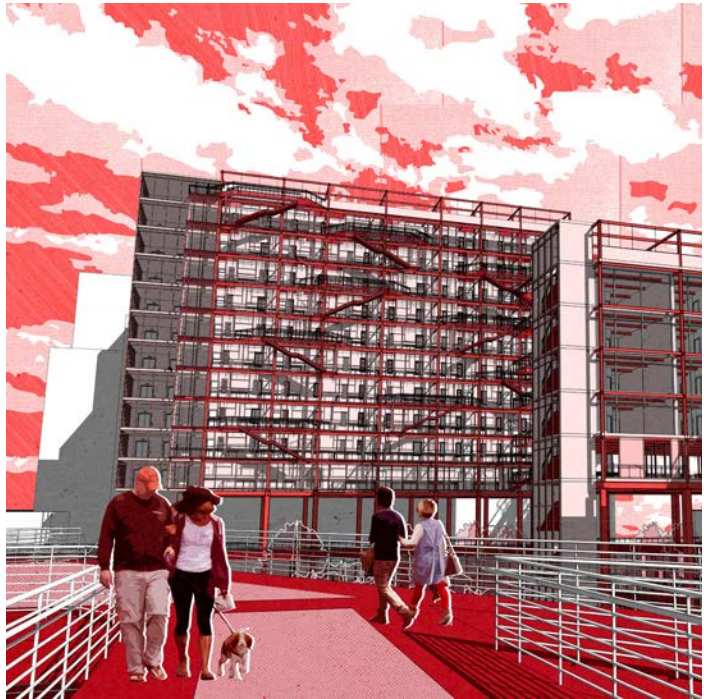
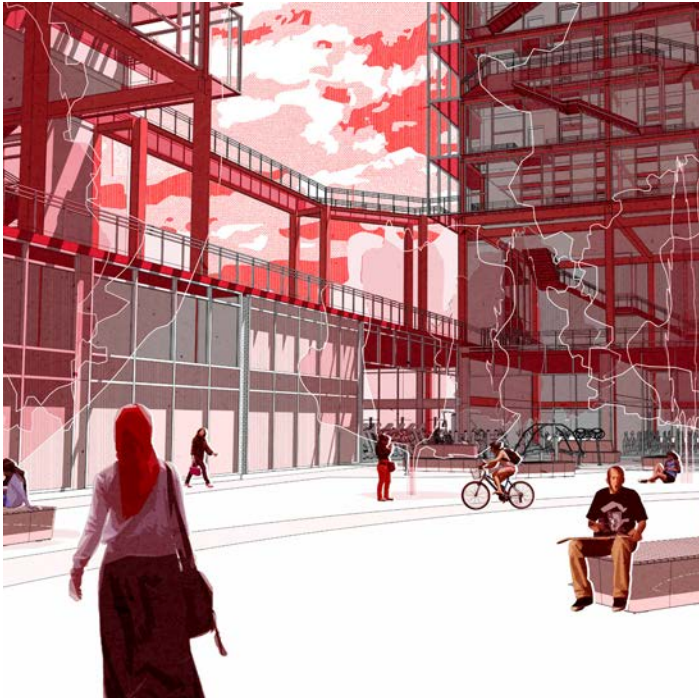
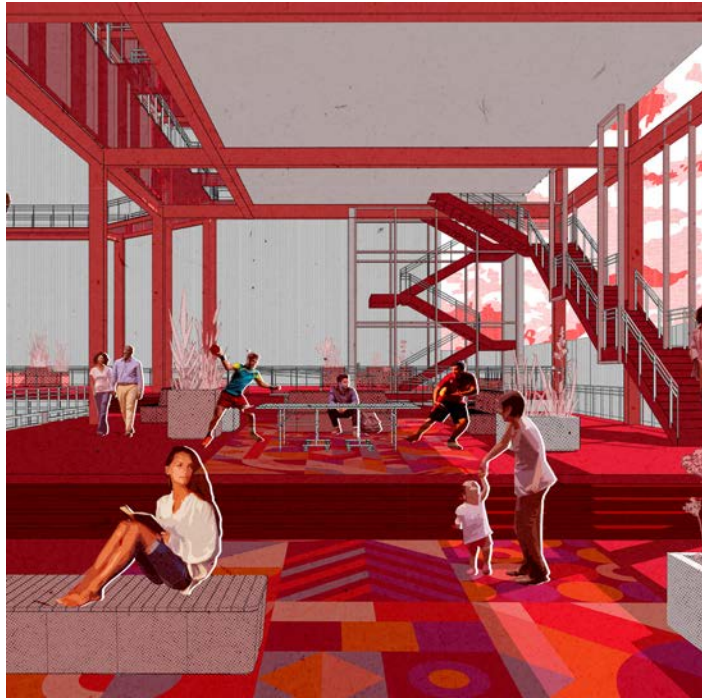
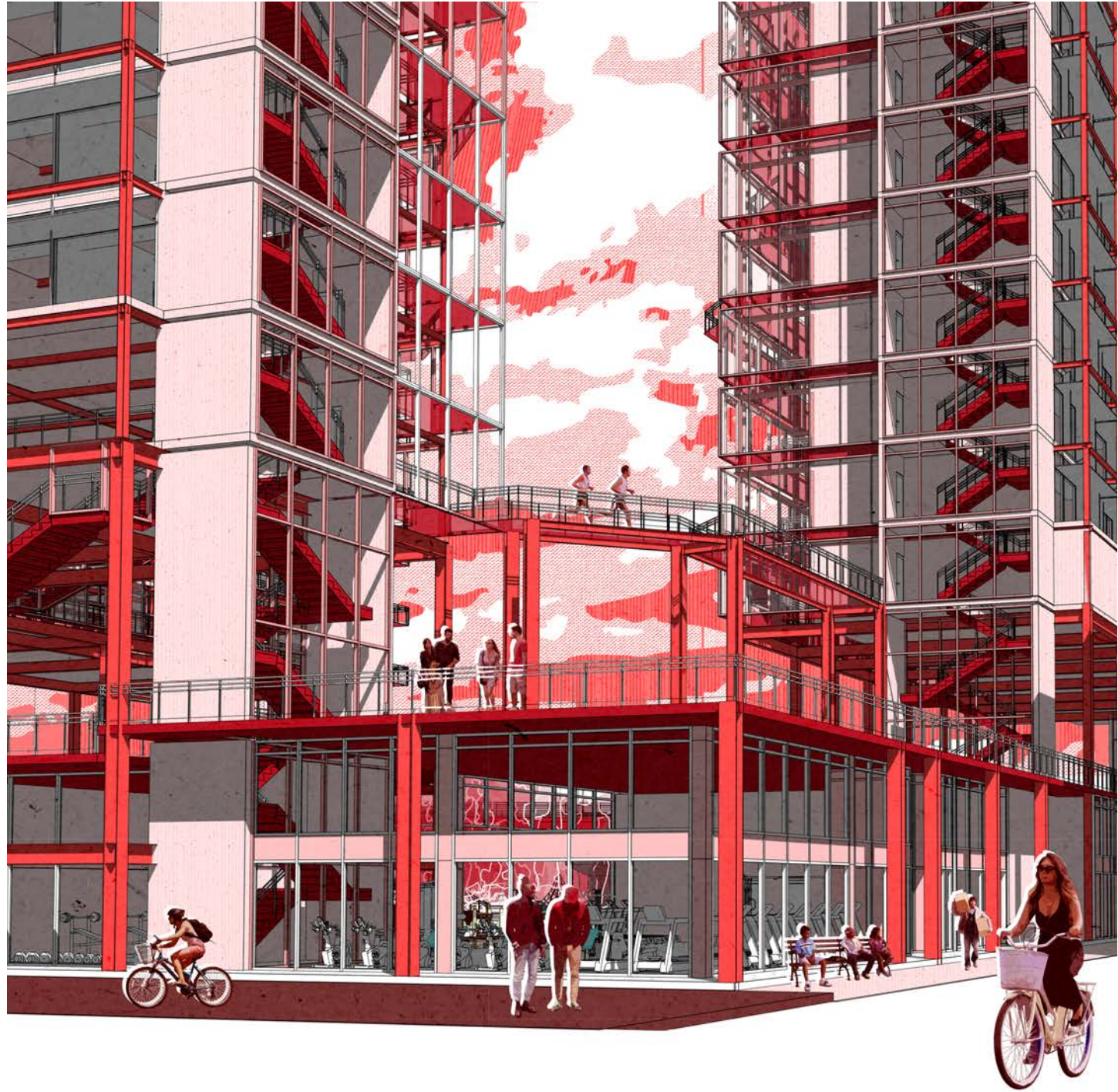
step down and split mass on south corner for more light

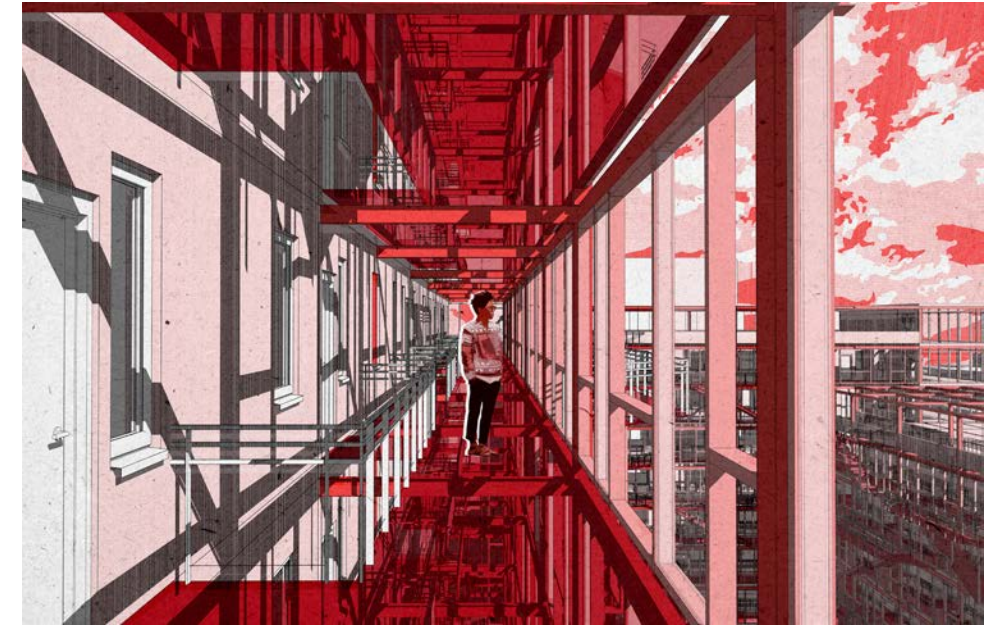
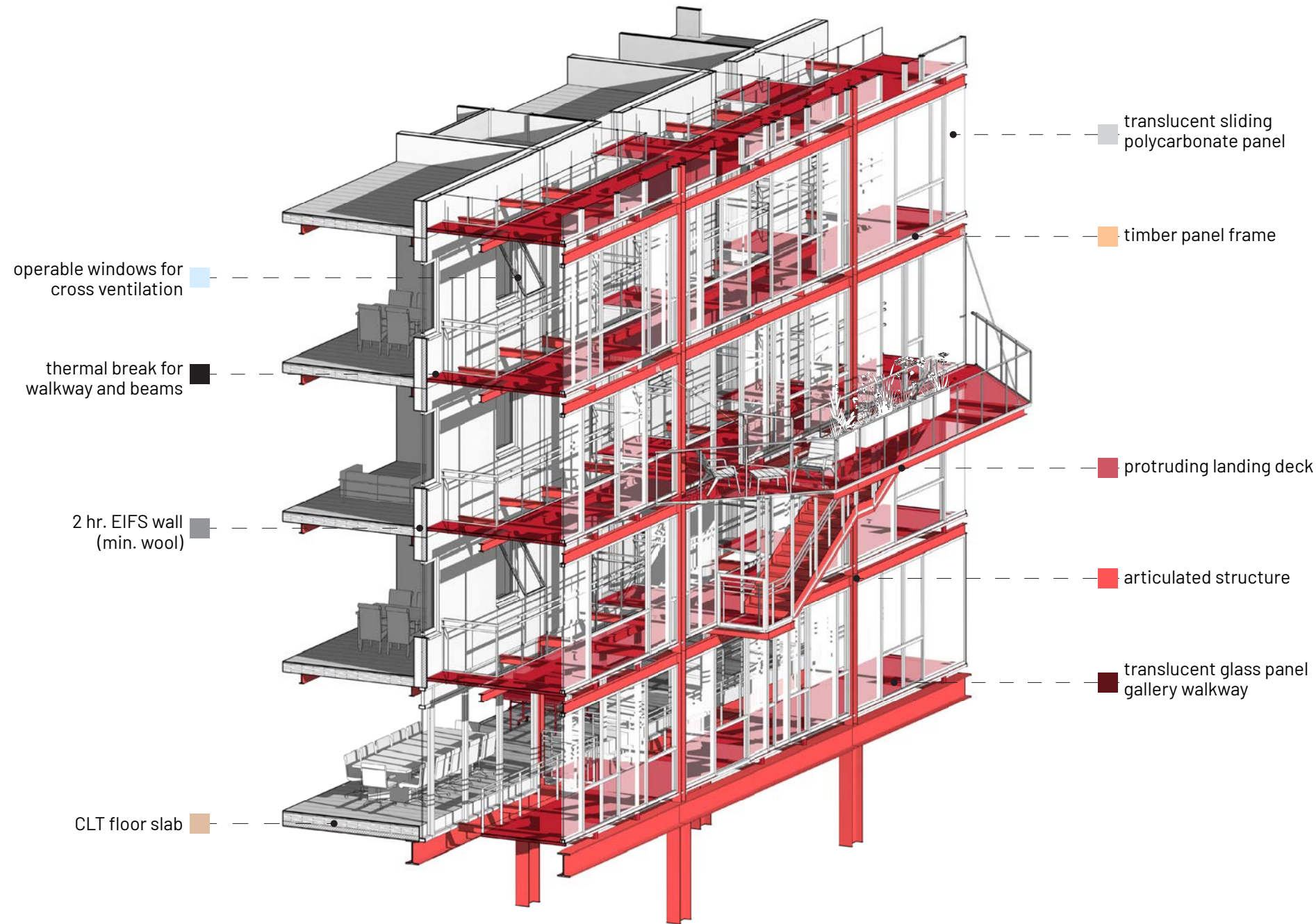


use capillaries to feed into circulation from station to grade



Standing where the old railroad once stood, the proposed pathway brings visitors down to Newark's historic and vibrant Ironbound district.





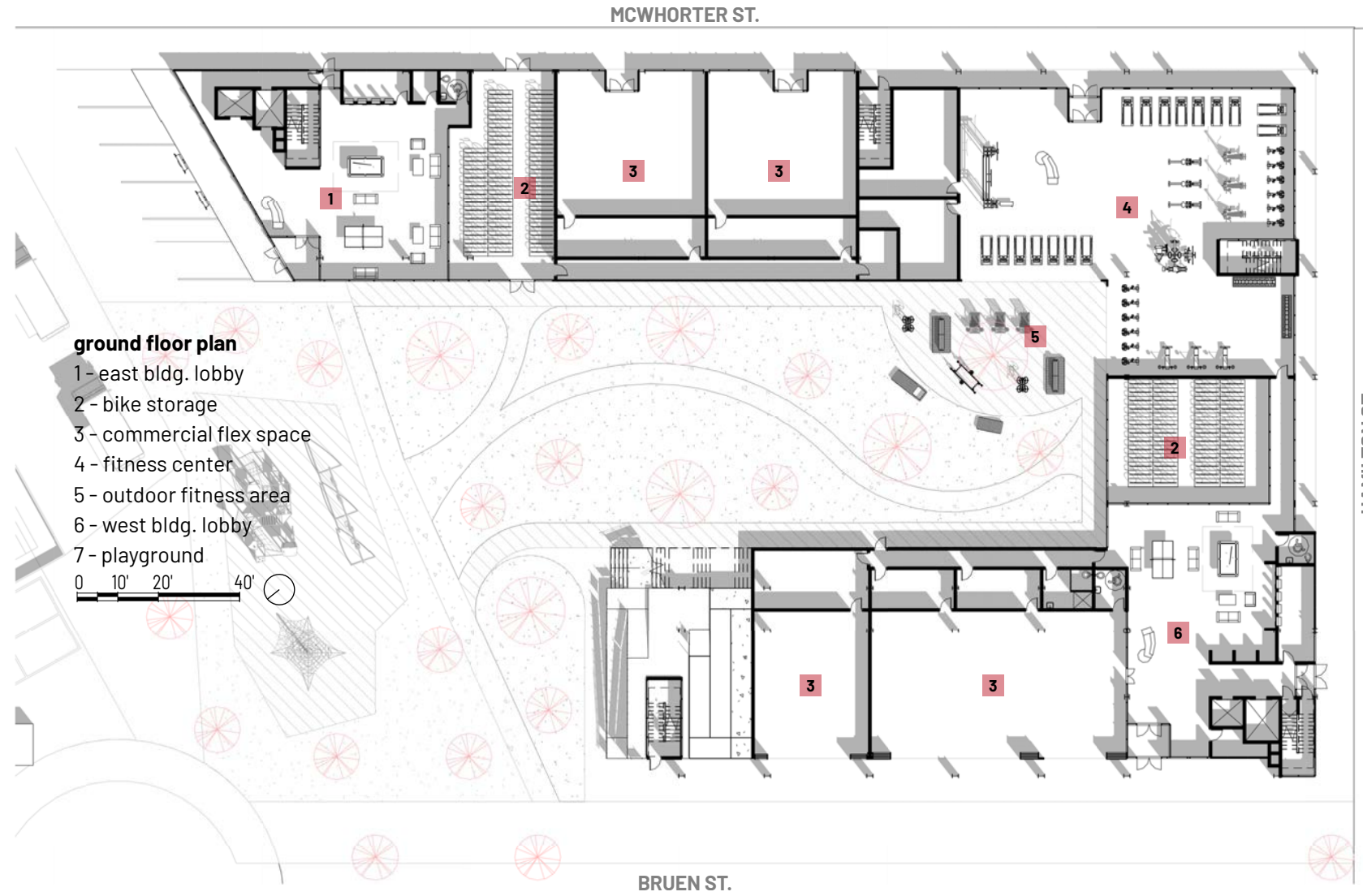
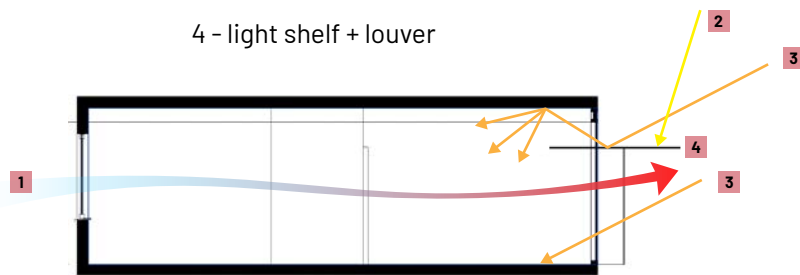


1 bed + office - 720 sf



environmental strategy

- 1 - cross ventilation
- 2 - summer solstice 12 pm sun
- 3 - winter solstice 12 pm sun
- 4 - light shelf + louver



ground floor plan

- 1 - east bldg. lobby
- 2 - bike storage
- 3 - commercial flex space
- 4 - fitness center
- 5 - outdoor fitness area
- 6 - west bldg. lobby
- 7 - playground



MCWHORTER ST.

HAMILTON ST.

BRUEN ST.

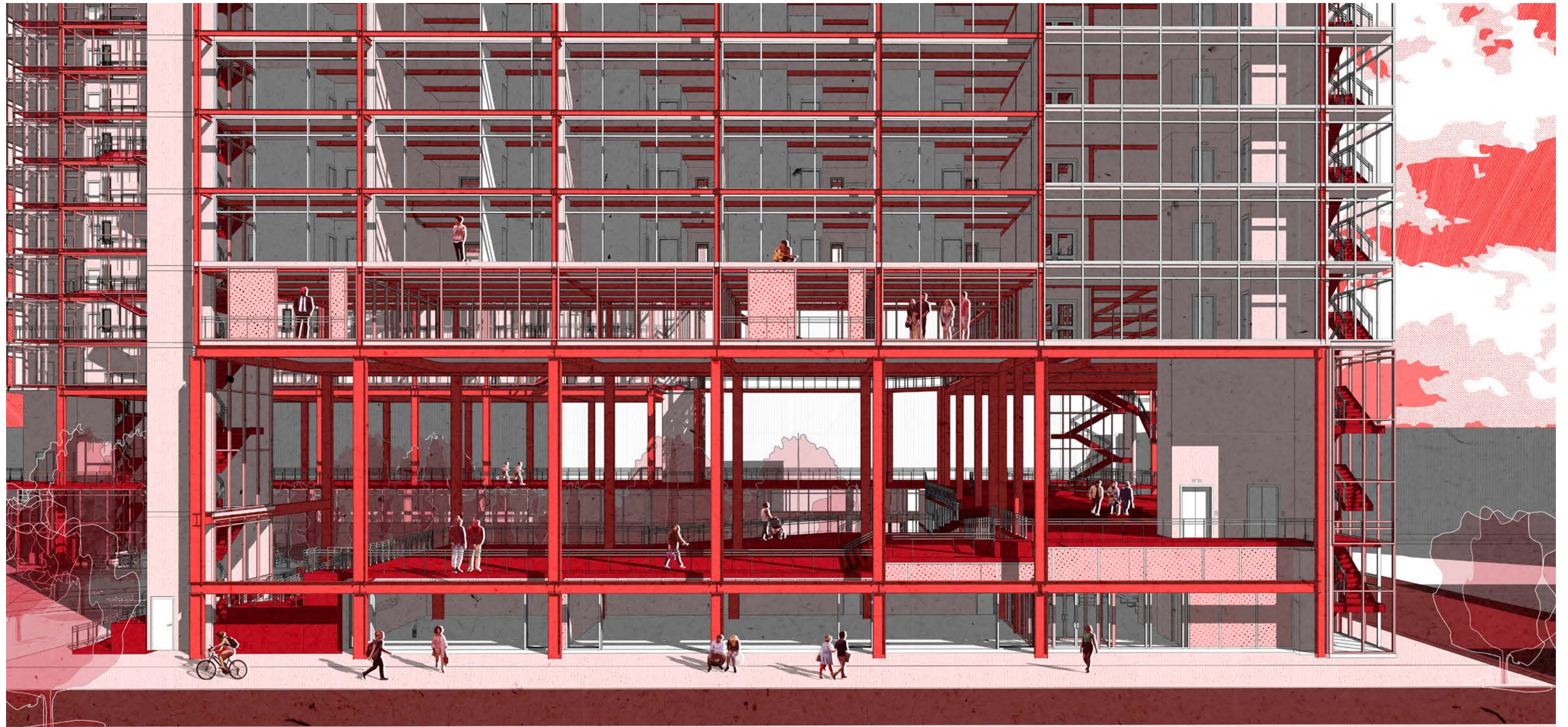




Photo by Gianna Orechio

marisol

Design-Build Pavilion Seating

**Spring 2025
Architecture Studio IV**

**Role: Project Manager
Collaborators: Spring 2025 CFGP Studio**

Marisol is a culmination of the effort of 34 students to design and build a modular pool cabana. The design uses canopies with rotated L-shaped frames to create a spiral resembling that of a wave. These canopies can be separated from their corresponding seats for easy transportation and storage. Additionally, ottomans can extend the ergonomically curved chairs to allow for various seating options and arrangements. The cabana is currently in use at the public Rotunda Pool in Newark, NJ.

Recently, the project achieved first place at the AIA Newark Suburban 2025 Design Awards in the student category.

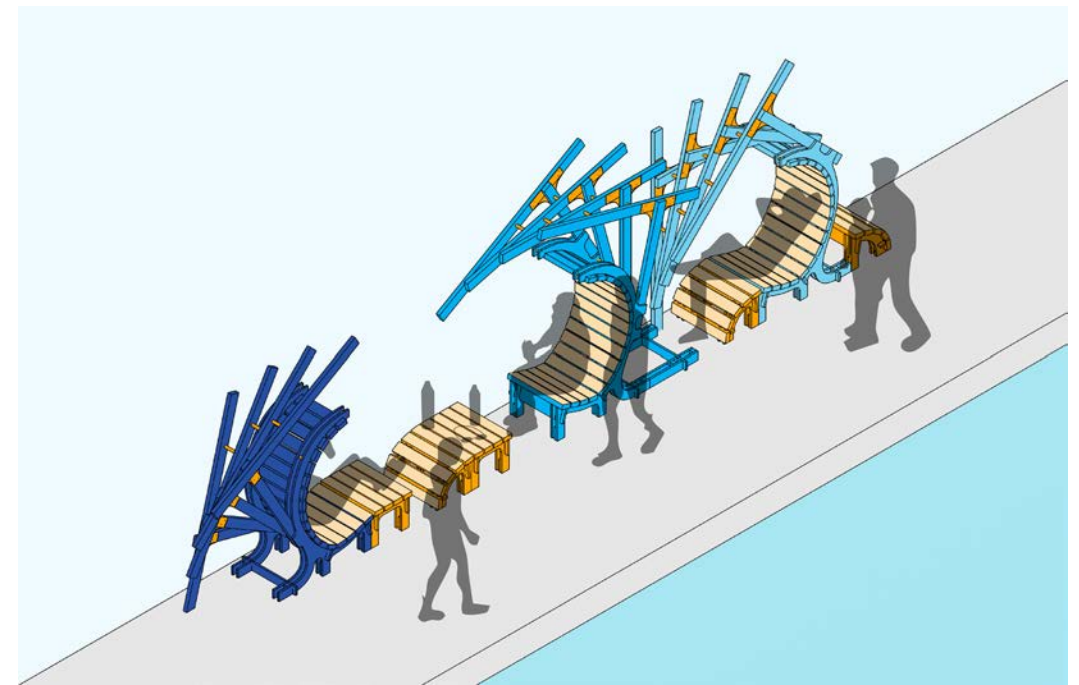
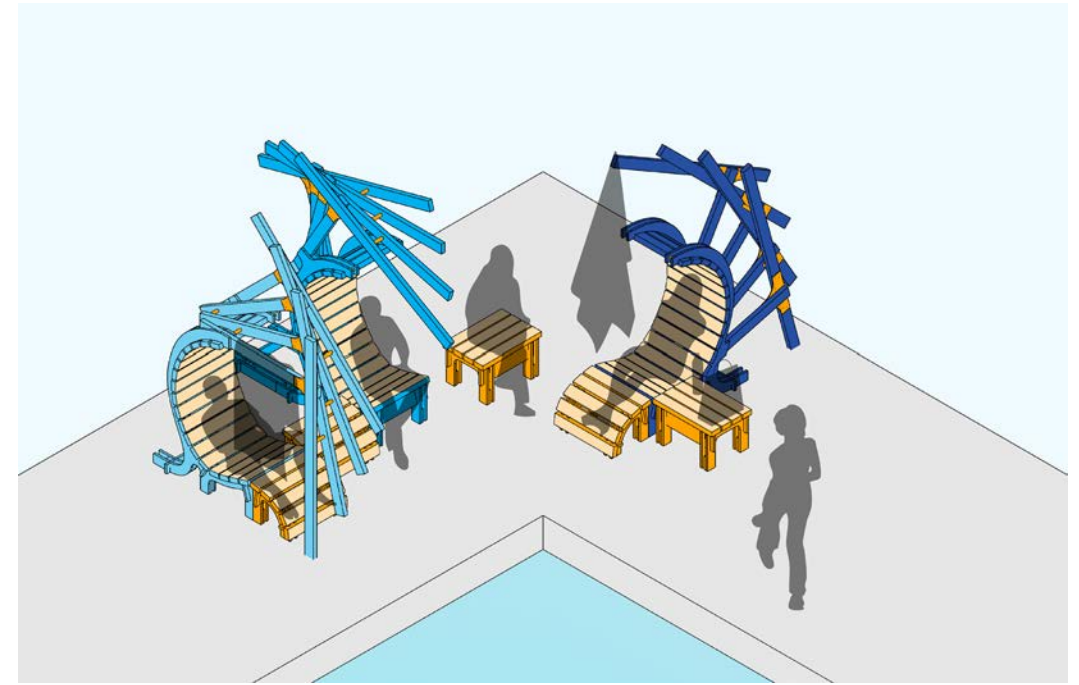
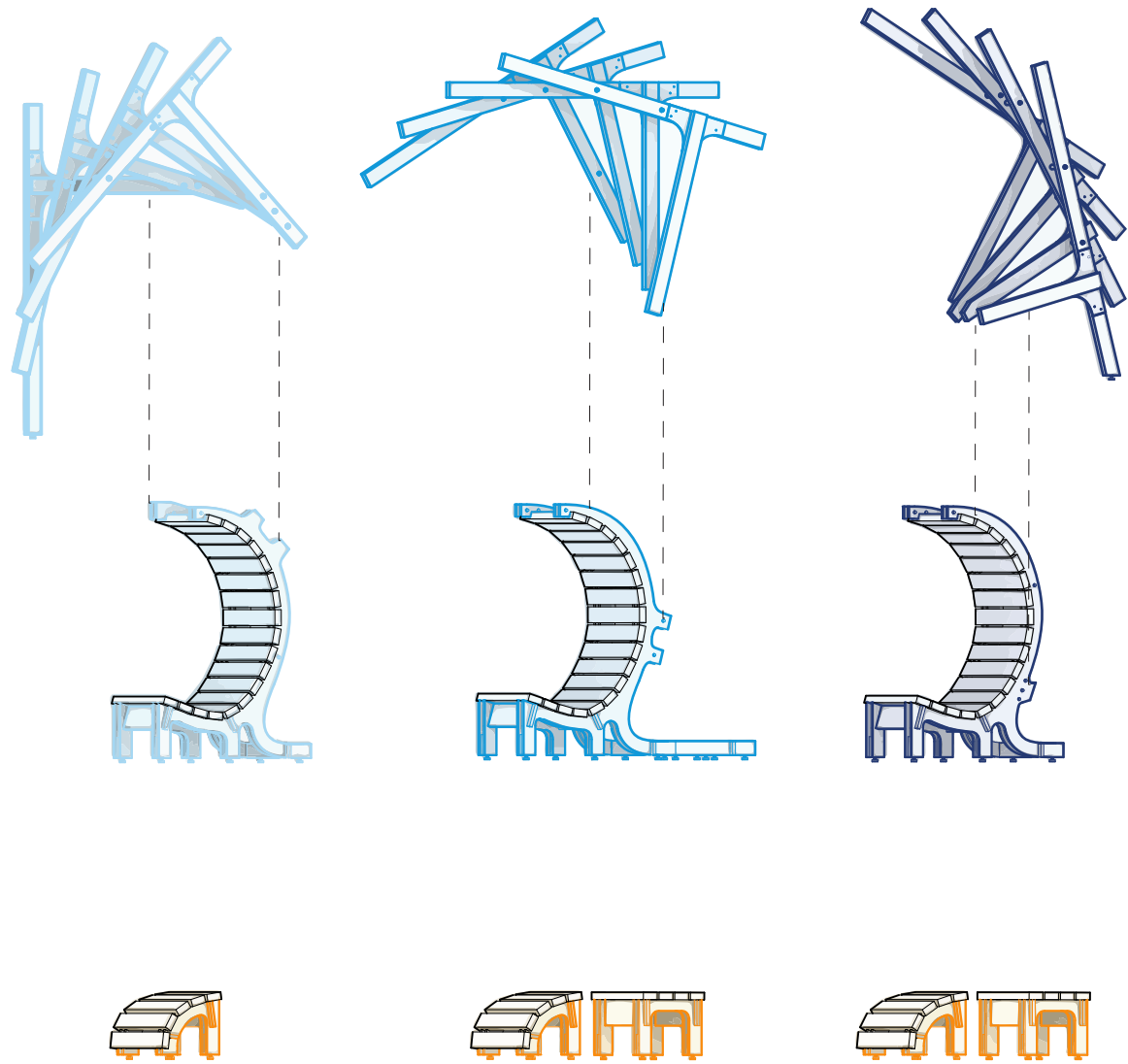
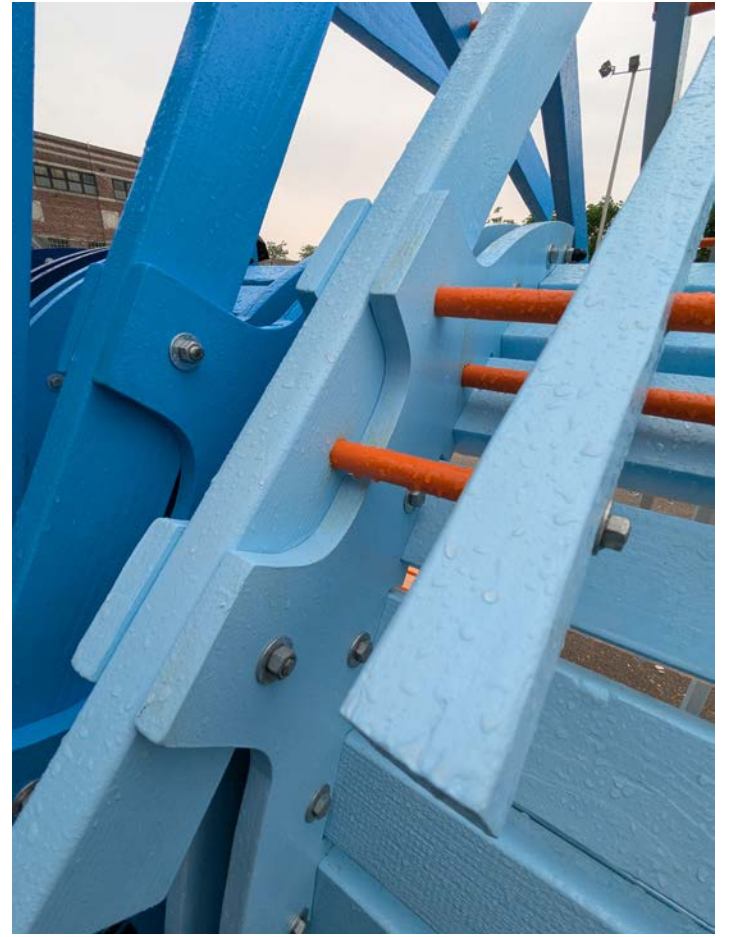
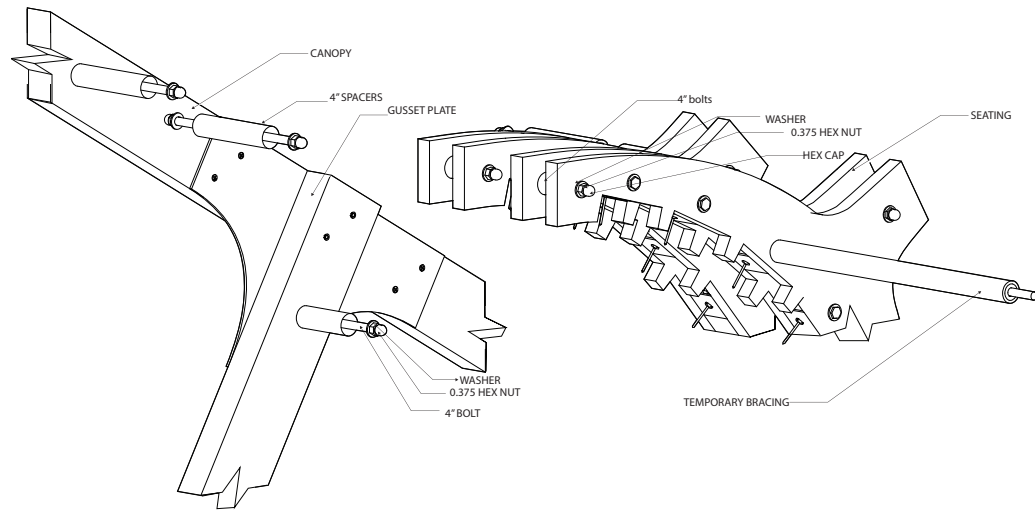




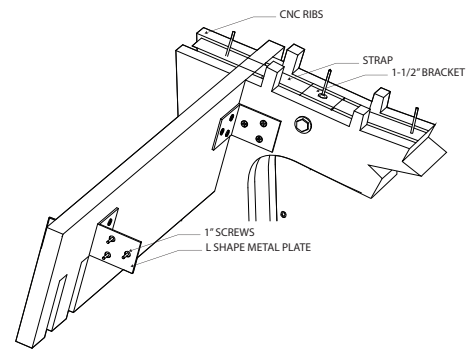
Photo by Gianna Orechio



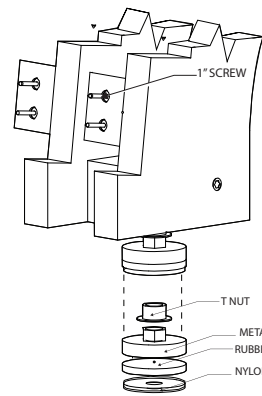


CANOPY SPACER CONNECTION DETAIL

RIB SPACER CONNECTION DETAIL



LATERAL SUPPORT CONNECTION DETAIL



FOOTING CONNECTION DETAIL

TYP. 2X4 CANOPY STRUCTURE(L1-L12)

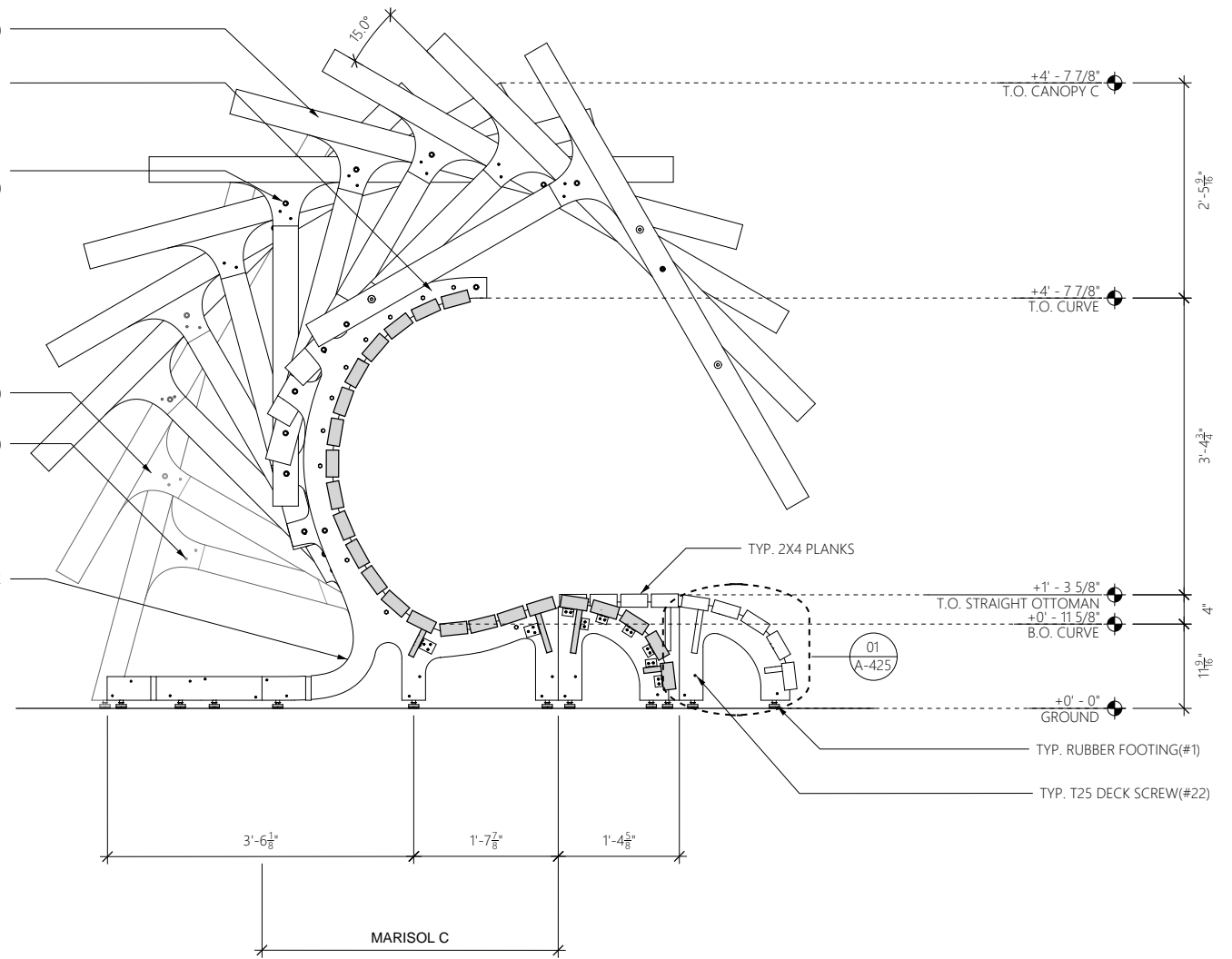
BASE MODULE

TYP. METAL ROD & ROPE FASTENER:
WASHER(#13) + NUT(#14) + CAP(#12)

TYP. GUSSET PLATE(M1-M8)

TYP. FLAT HEAD SCREW(#23)

3/4" PLYWOOD SUBSTRUCTURE



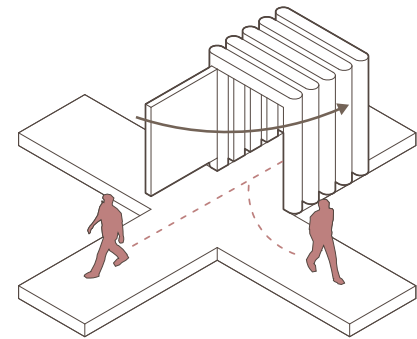
switches

Park Structure

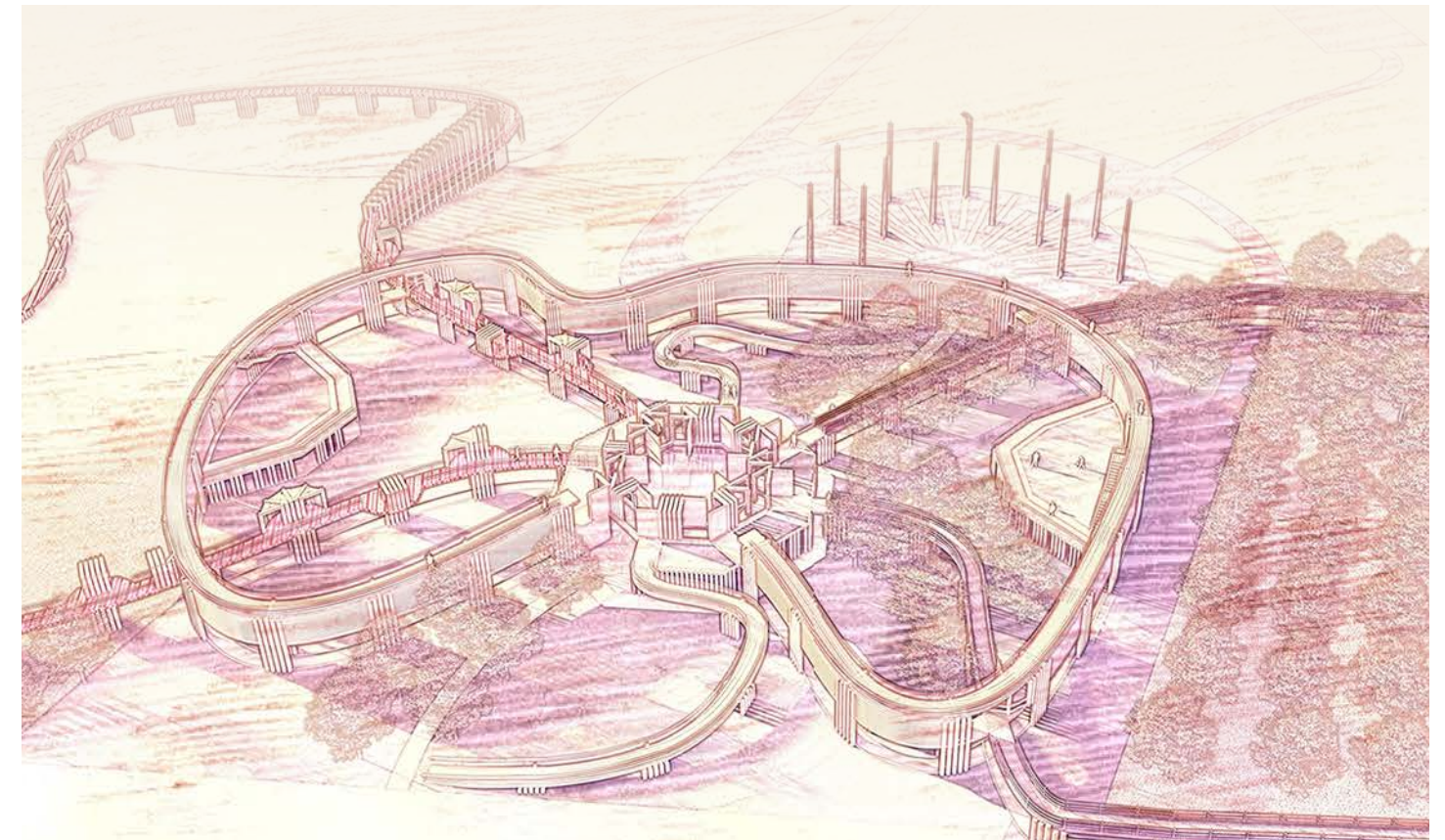
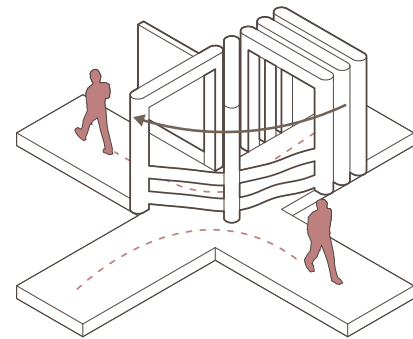
Spring 2024

Architecture Studio II

"Switches," akin to railroad switches, are placed at pathway intersections, and can be interacted with to open or restrict movement to certain paths. There are four different pathways, each of which contains seasonal attributes used to determine their materiality, placement on the site, and experiences that aim to provoke understandings of nature and the seasons. These pathways all converge to a central "turntable," a visitor center that is fitted with eight adjacent switches that, depending on configuration, may send visitors on paths they might not expect.



the switch



- summer path
- fall path
- winter path
- spring path

intersections with switches

interior enclosures

STEEL
Recycled steel is used for all of the frames along the pathways, providing structural support and affect through repetition.

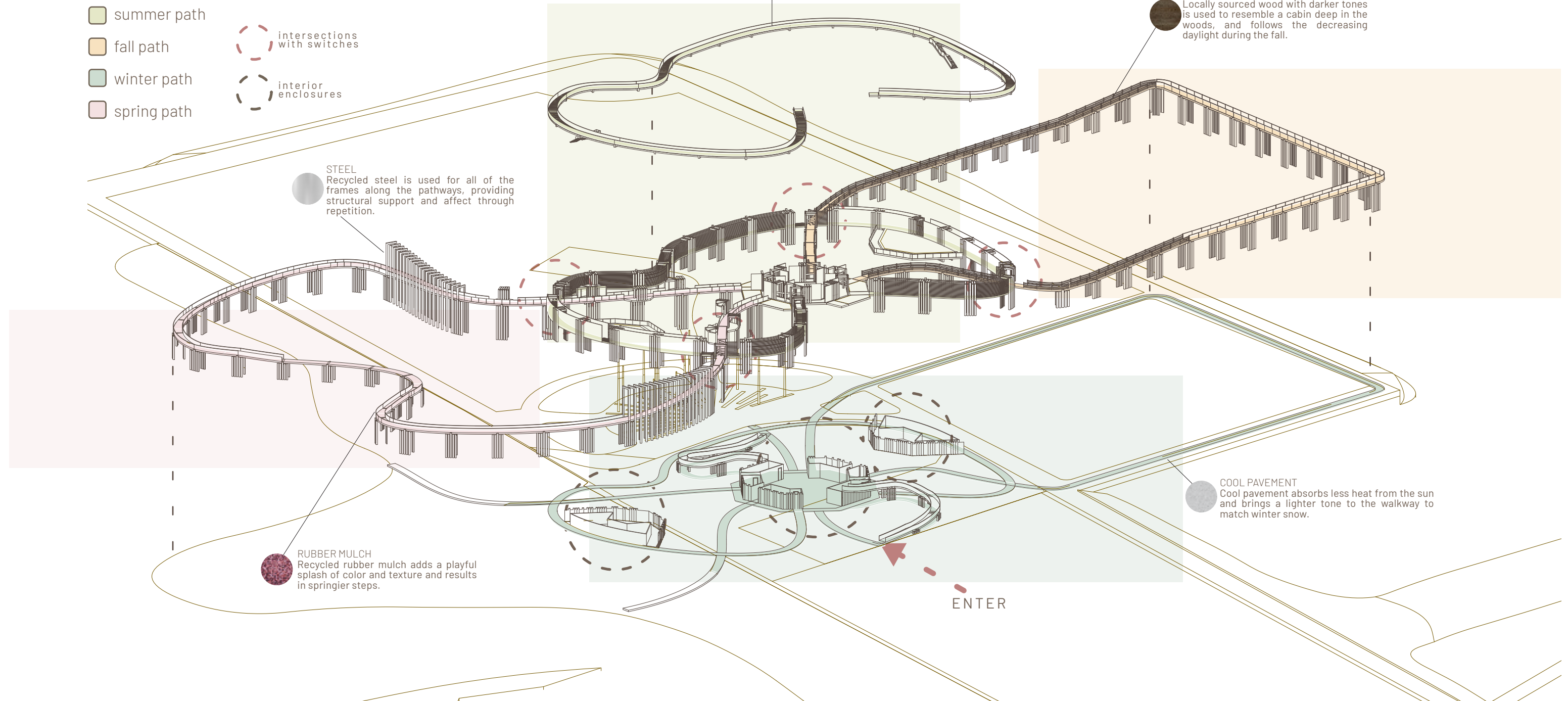
LIGHT WOOD
Locally sourced wood with brighter tones is used to emulate the vibrance of summer under the sun.

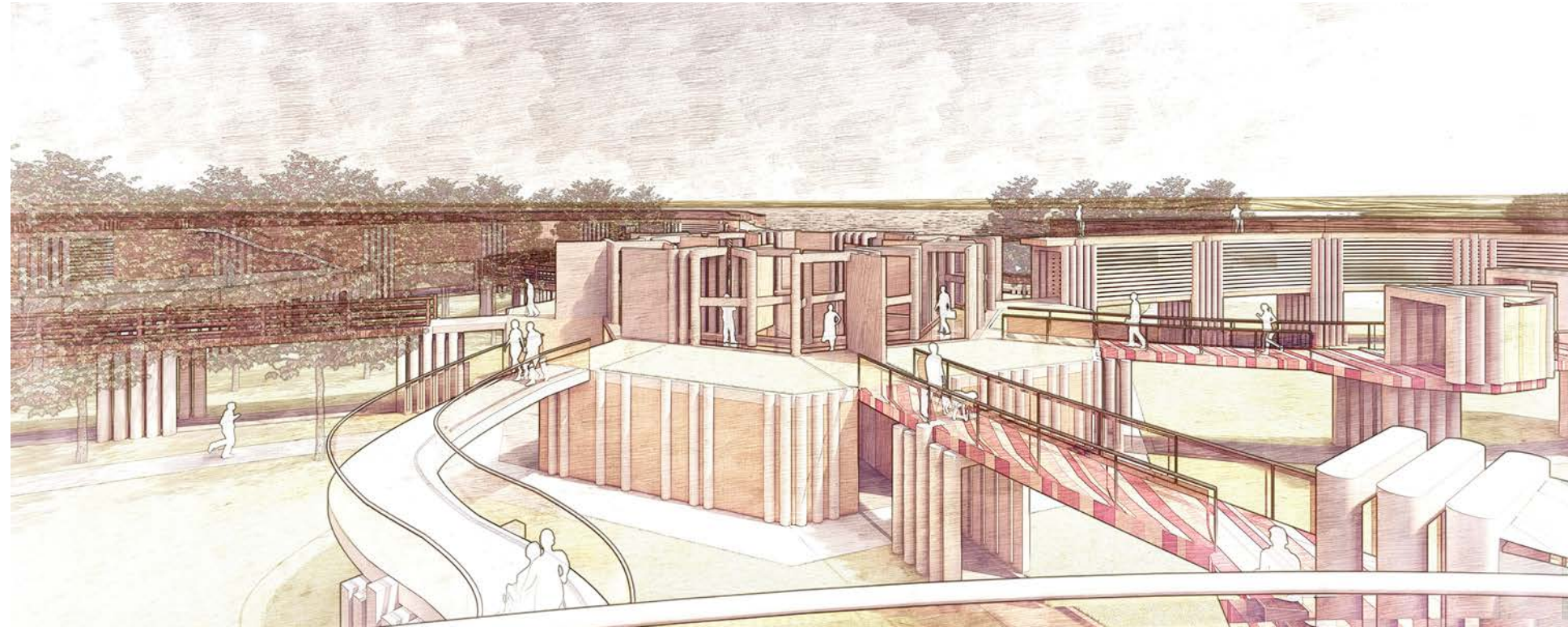
DARK WOOD
Locally sourced wood with darker tones is used to resemble a cabin deep in the woods, and follows the decreasing daylight during the fall.

RUBBER MULCH
Recycled rubber mulch adds a playful splash of color and texture and results in springier steps.

COOL PAVEMENT
Cool pavement absorbs less heat from the sun and brings a lighter tone to the walkway to match winter snow.

ENTER

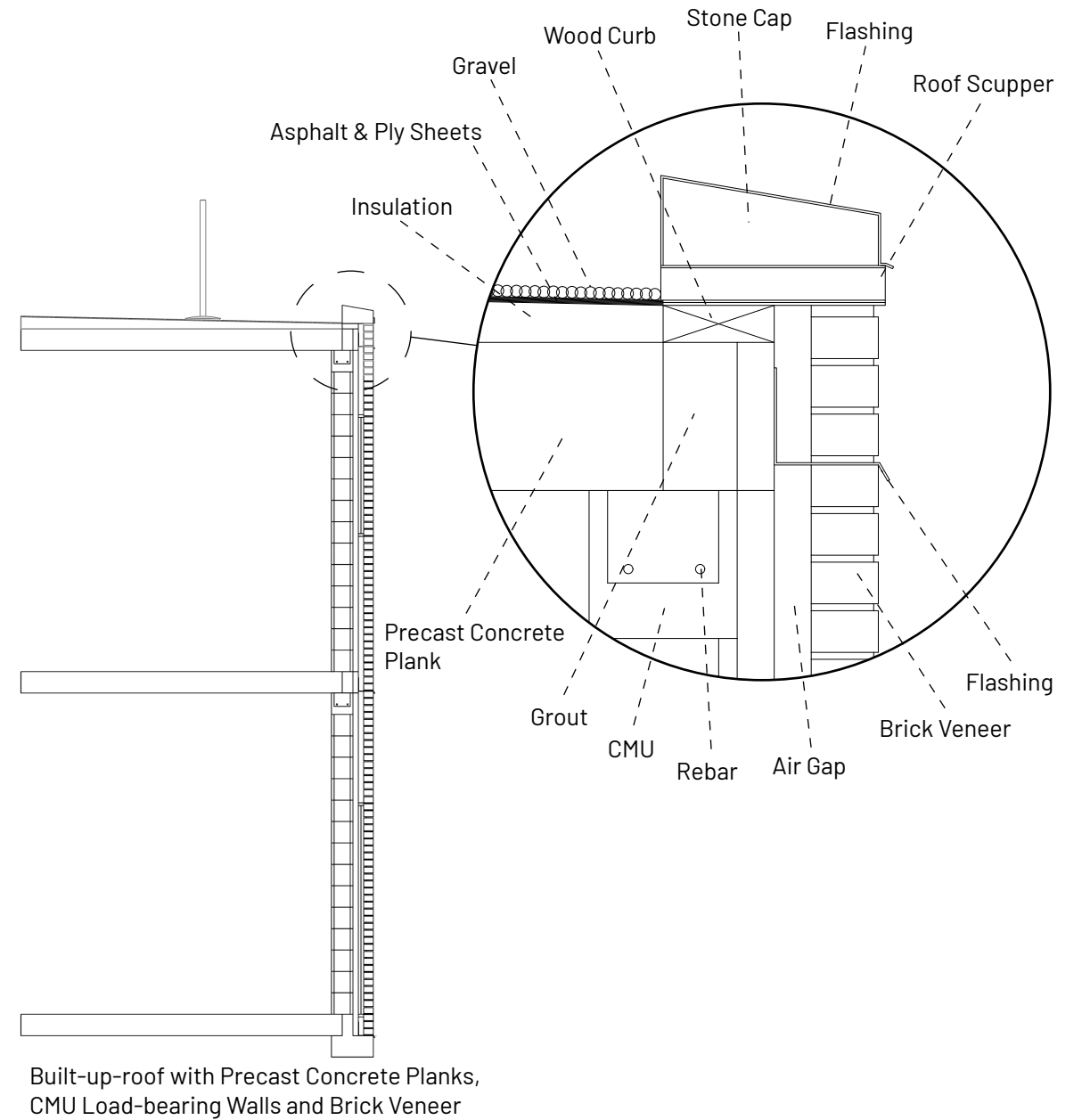
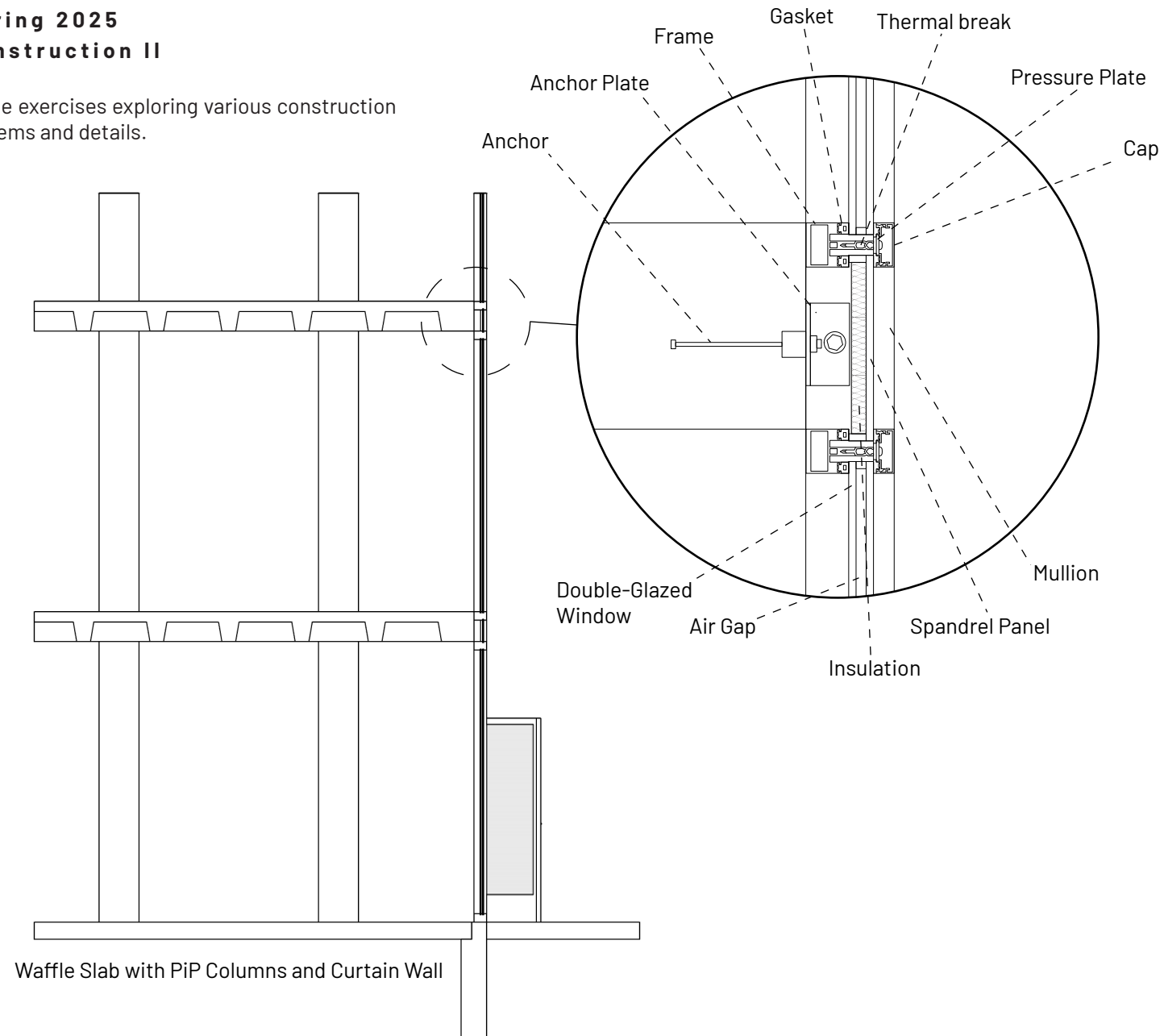




construction details

Spring 2025
Construction II

Some exercises exploring various construction systems and details.





day trip to new york, spring 2023

contact

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more projects:

jonathanchu.net



exploring gandria, summer 2024



vacation in switzerland, summer 2024