

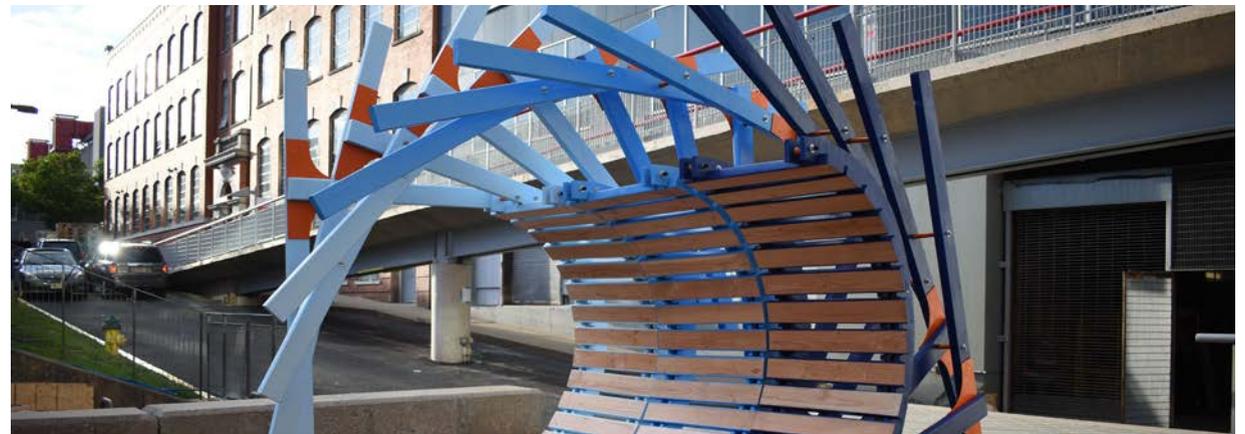
Jonathan Chu
portfolio



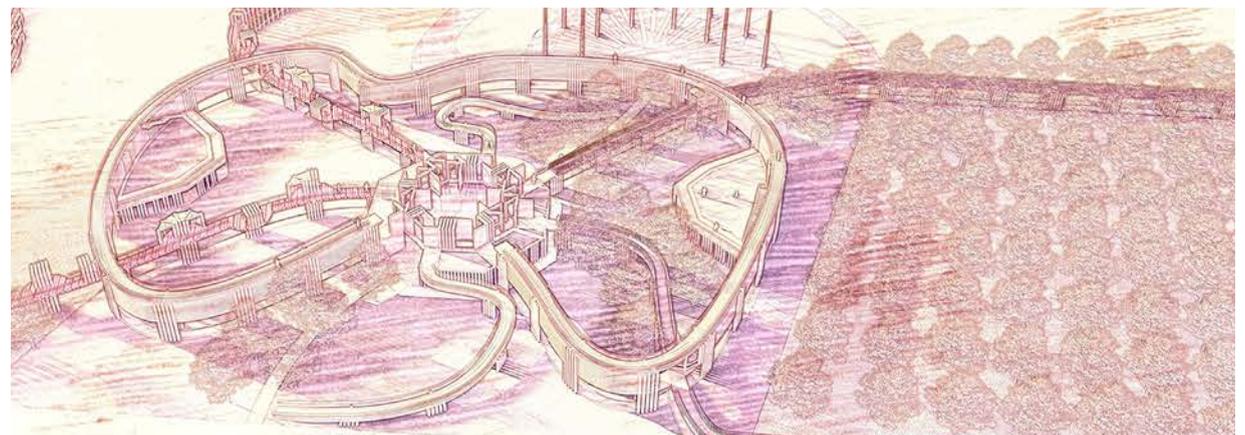
selected works
Year 1 - Year 3



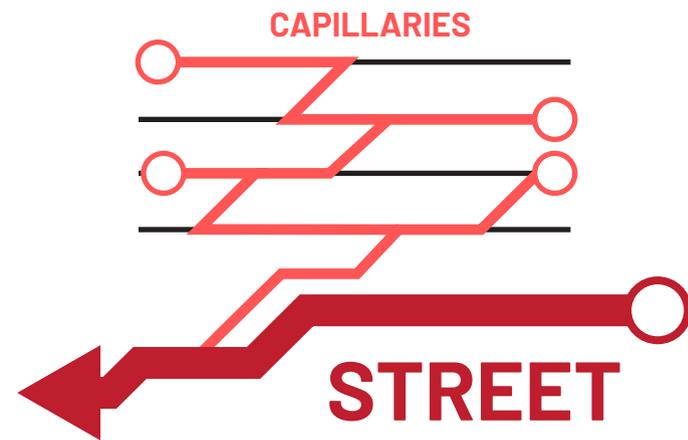
The Capillaries



Marisol



Switches



the capillaries

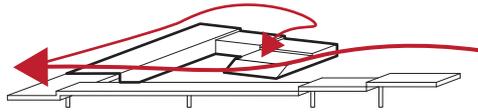
Mixed-Use Housing

Fall 2025

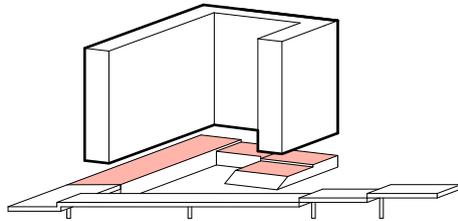
Architecture Studio V

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 (along the former Pennsylvania RR) into an exit ramp-like promenade down to the center of the site’s public activity. The structure protrudes from the facade, forming gallery-access hallways that visually connect public and private movement.

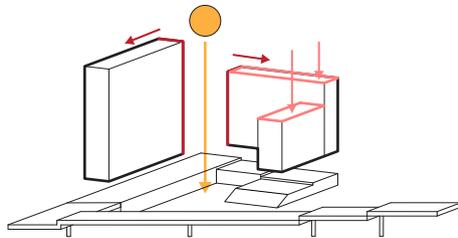




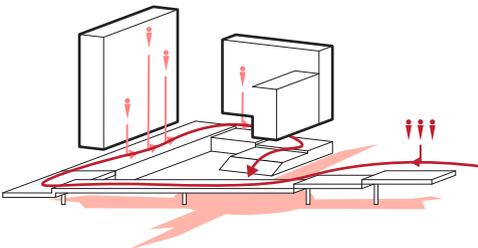
extend mulberry pass with an exit ramp-like podium



elevate residential spaces to maintain public space below



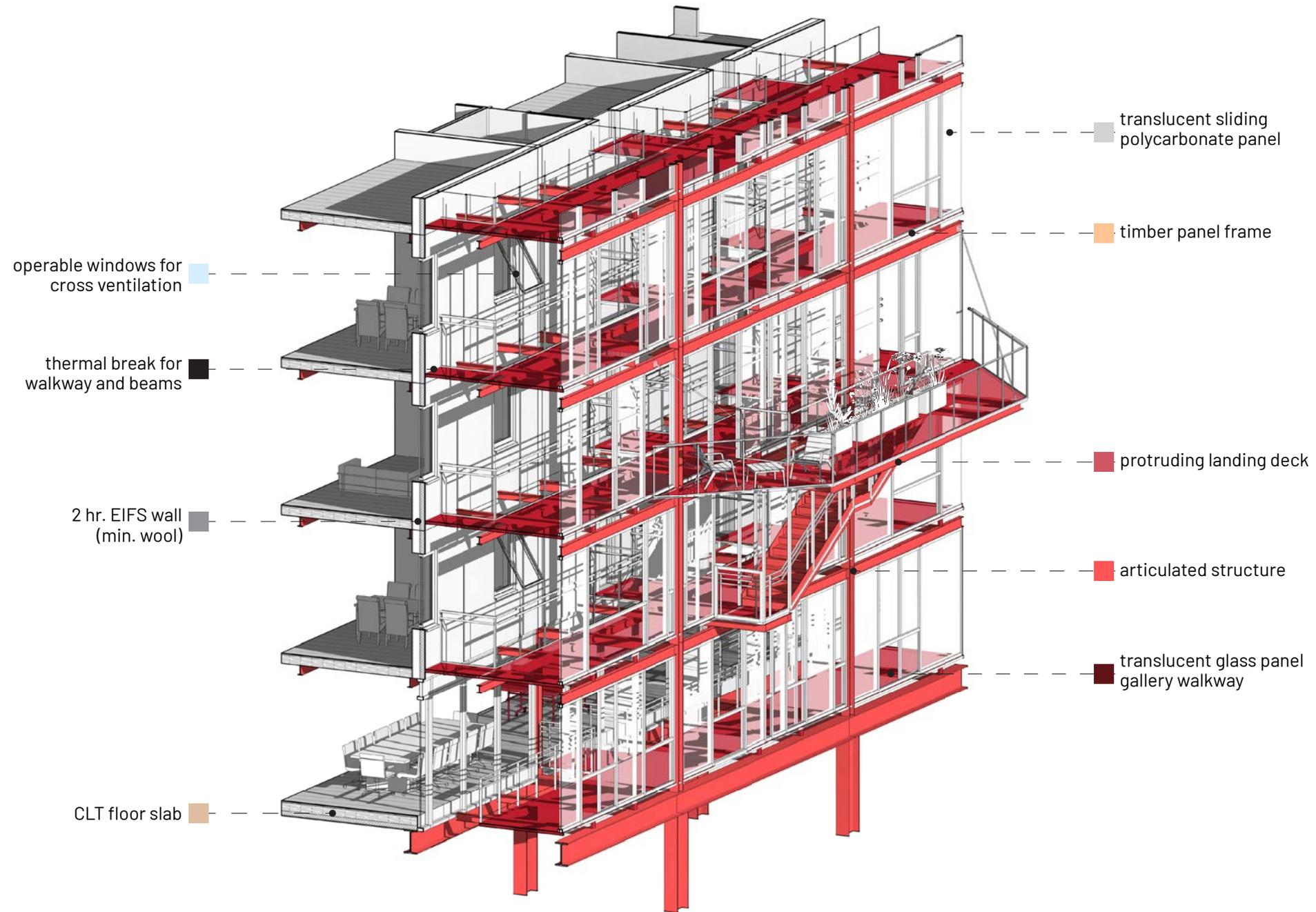
step down and split mass on south corner for more light



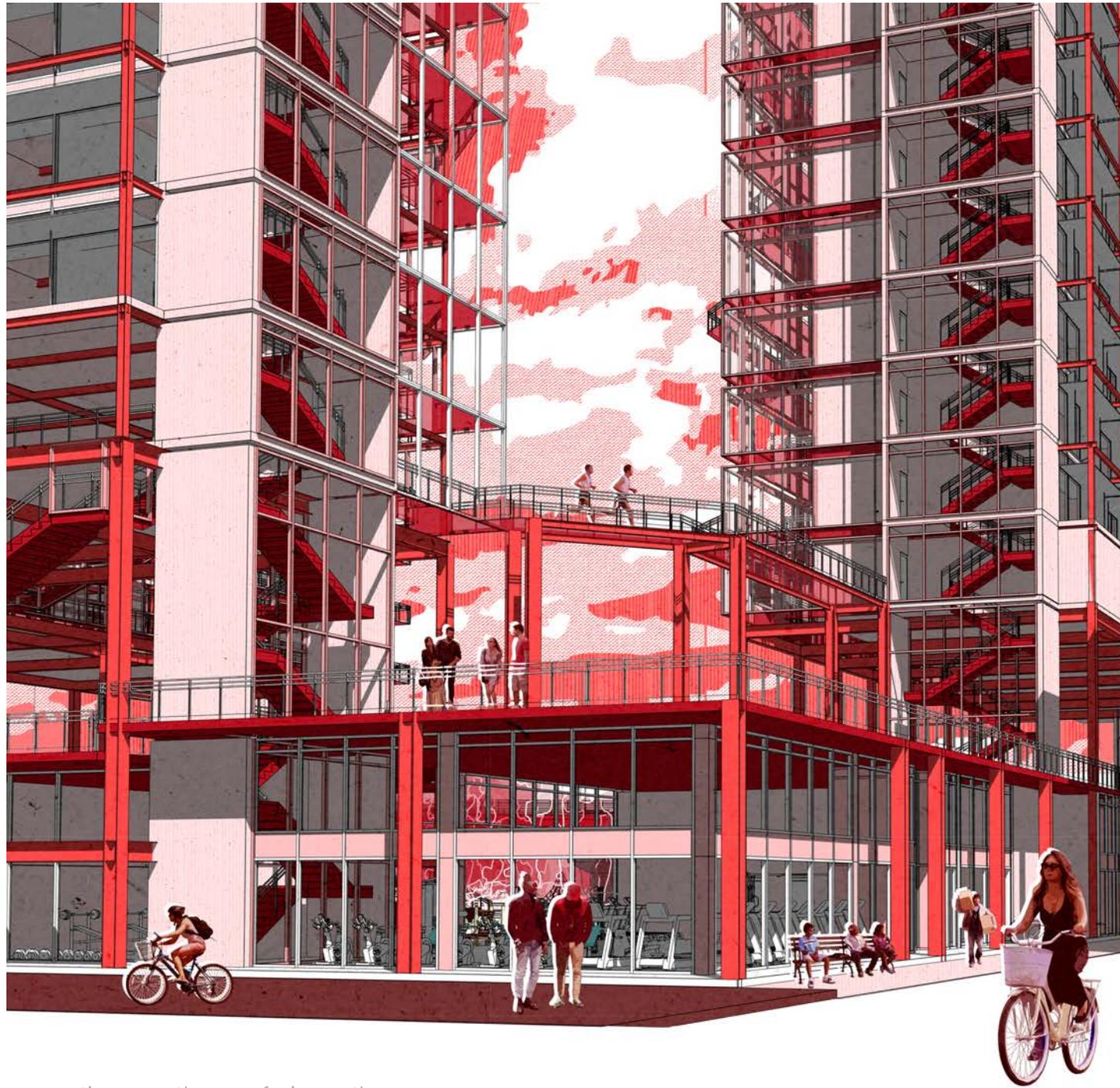
use capillaries to feed into circulation from station to grade



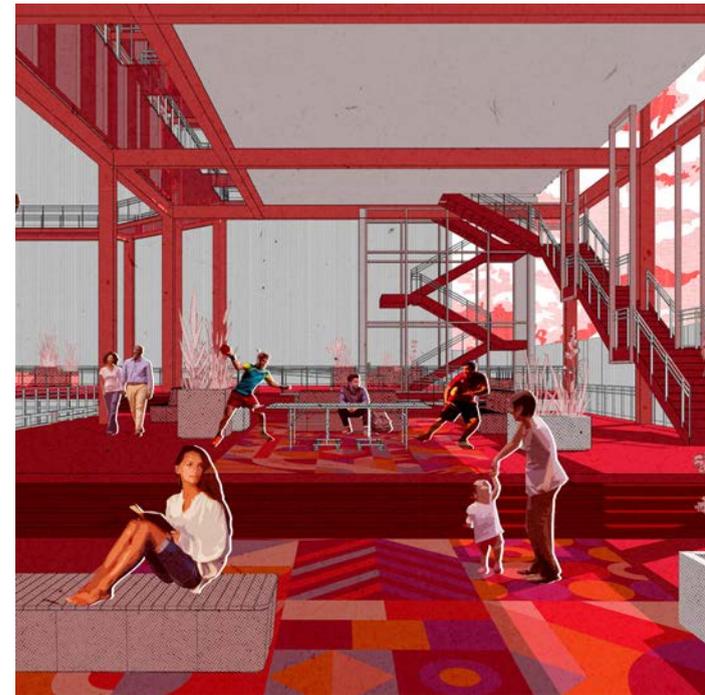
Standing where the old railroad once stood, the proposed pathway brings visitors down to Newark's historic and vibrant Ironbound district.



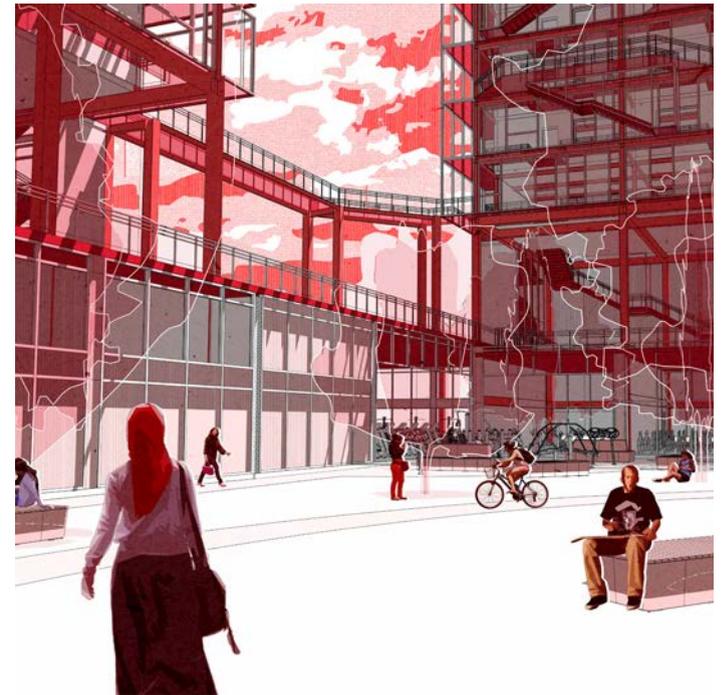
The housing layout consists of semi-outdoors gallery-access hallways with sliding panels for cross ventilation, allowing for "eyes on the street" at both the ground and housing levels. Walkway floors are translucent, allowing light through but maintaining privacy.



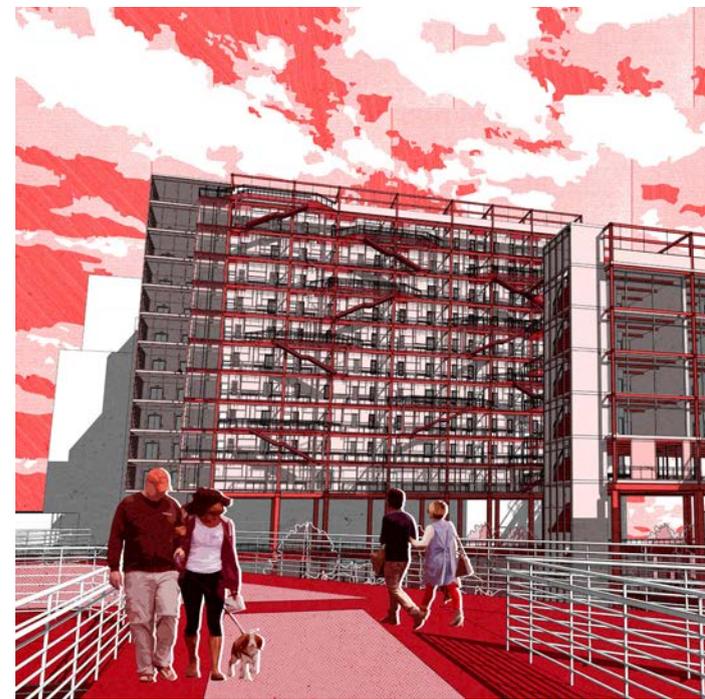
perspective on south corner facing north



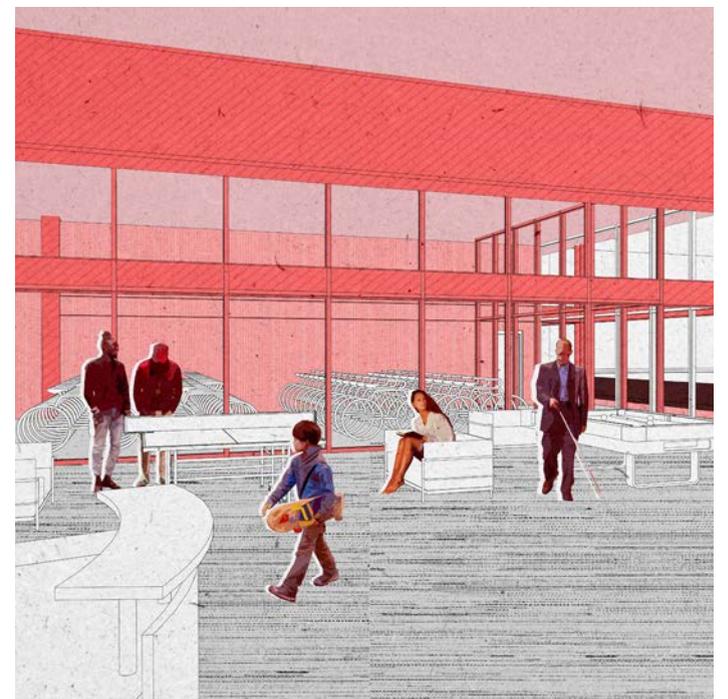
experience along elevated public way



courtyard perspective



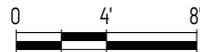
view from mulberry pass extension



lobby perspective, with bike storage

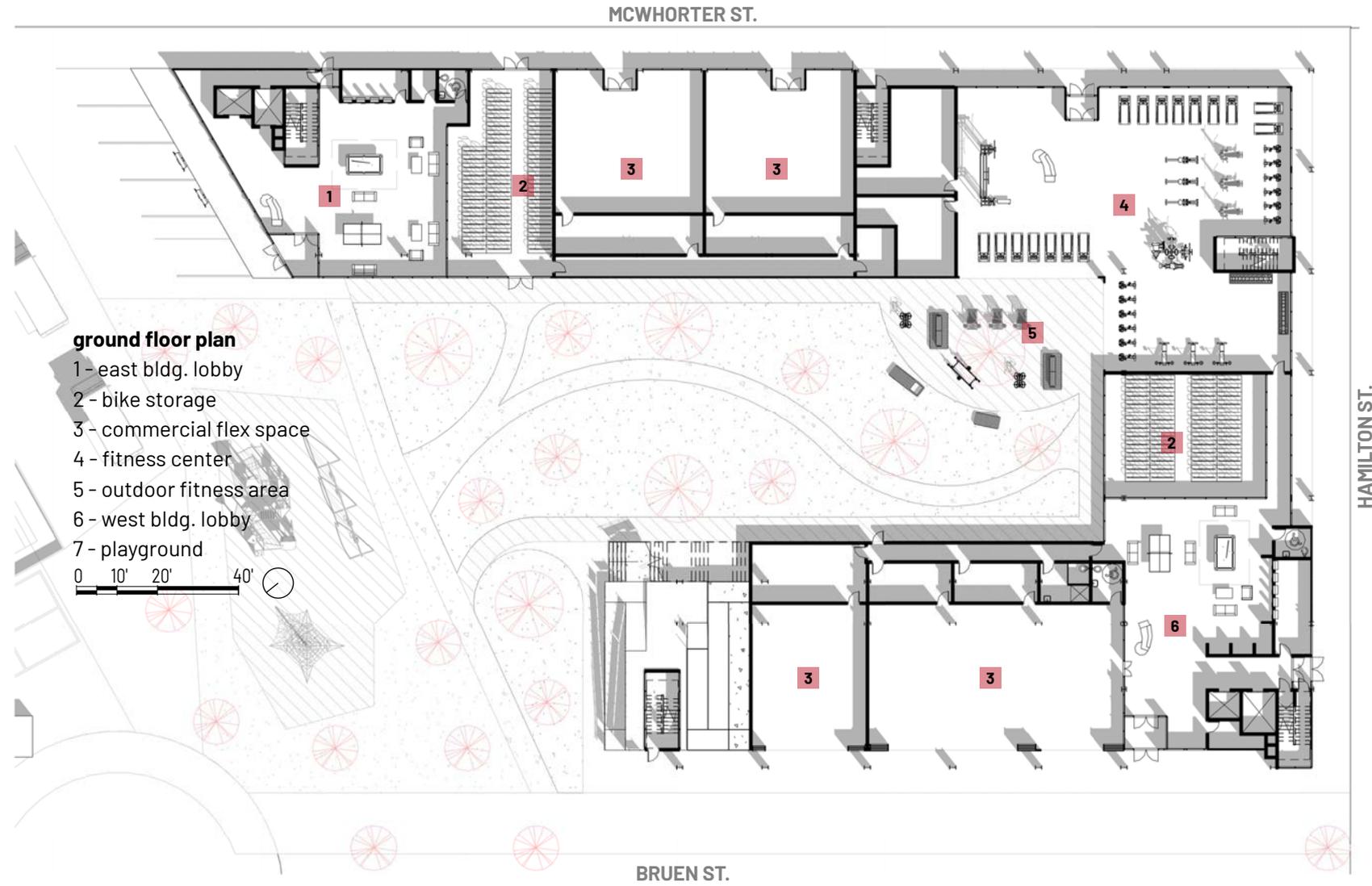
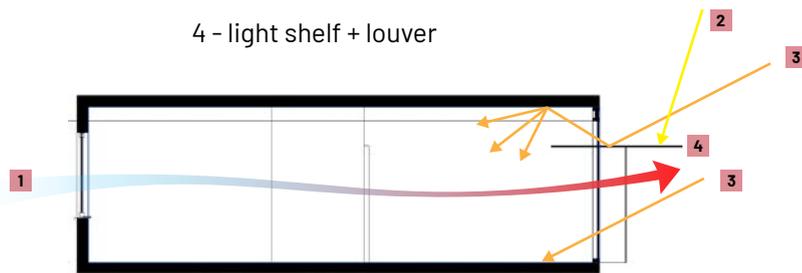


1 bed + office - 720 sf



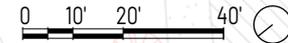
environmental strategy

- 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.

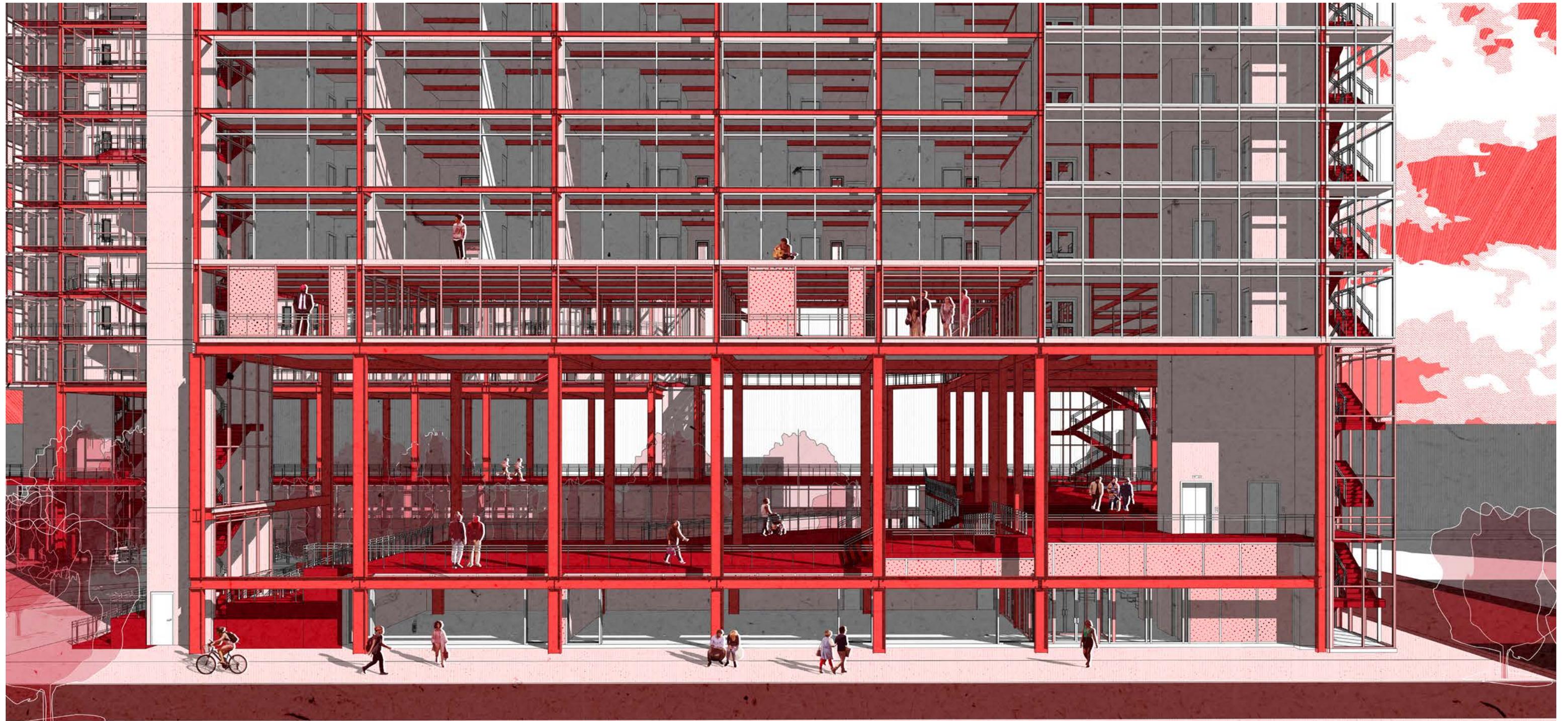




Photo by Gianna Orechio

marisol

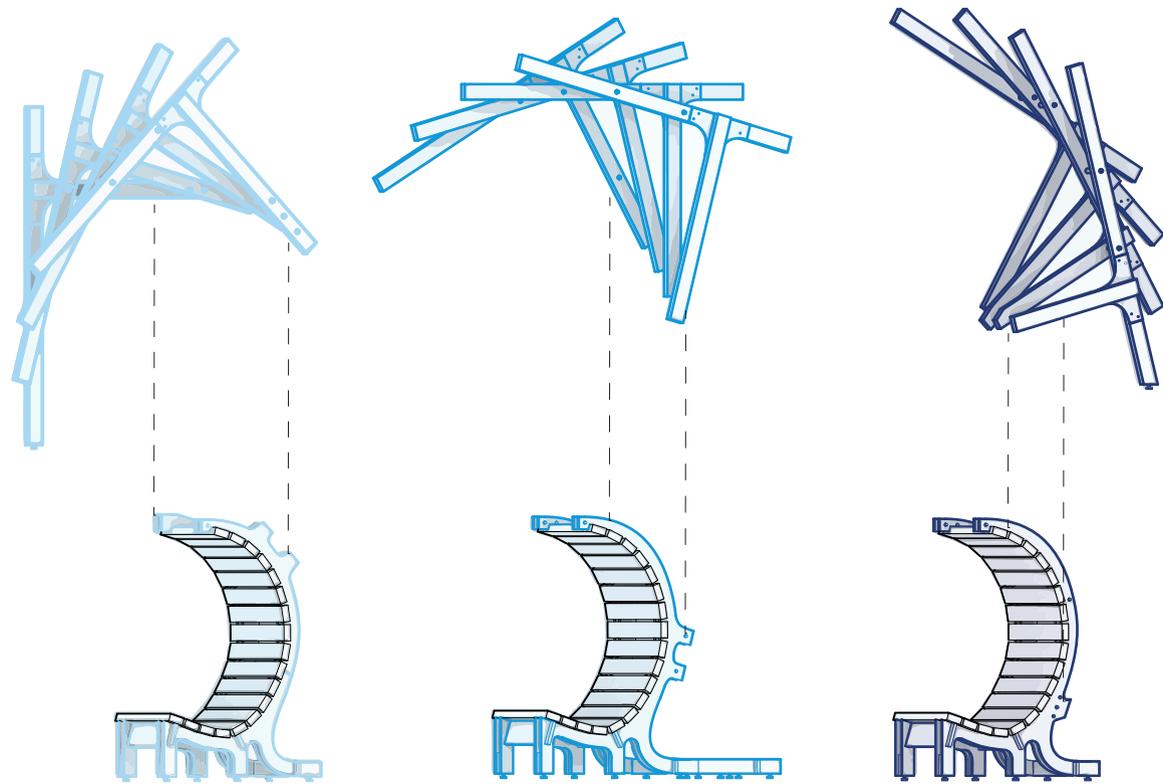
Design-Build Pavilion Seating

**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.



Initially conceived as a single spiral, Marisol was modularized for faster on-site assembly and remained flexible for various poolside conditions.

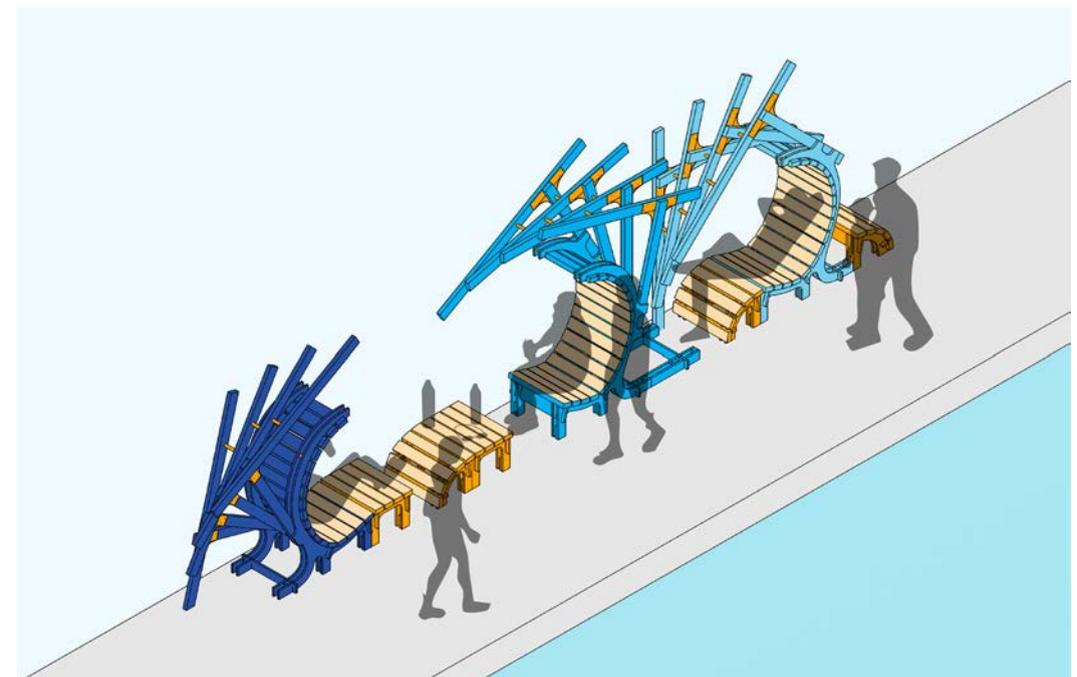
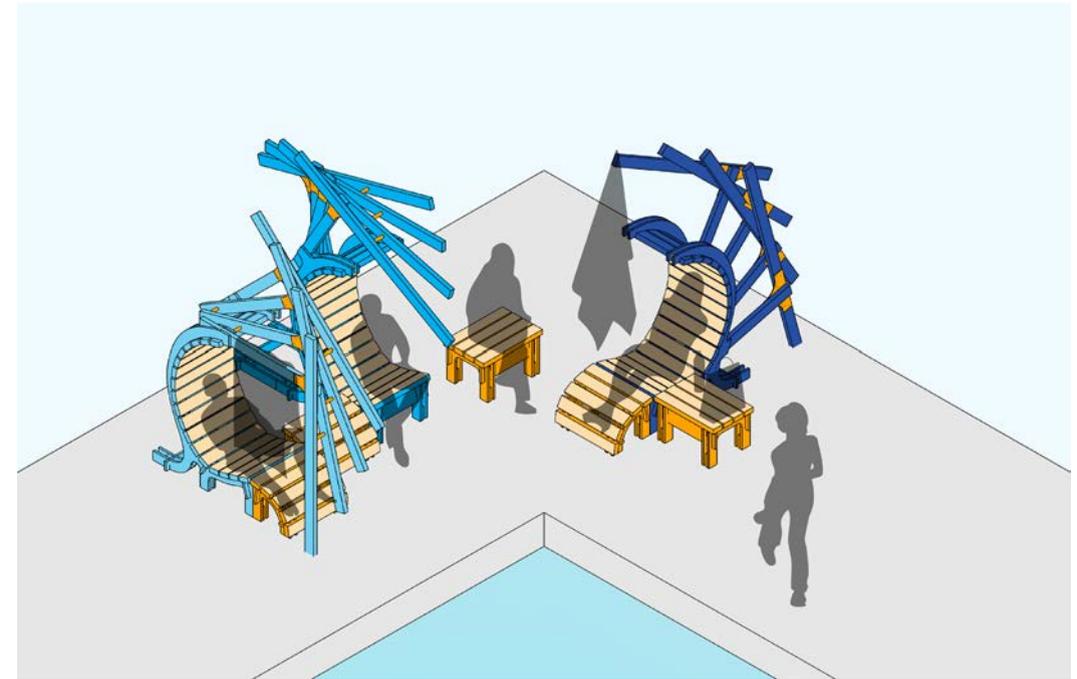




Photo by Gianna Orechio

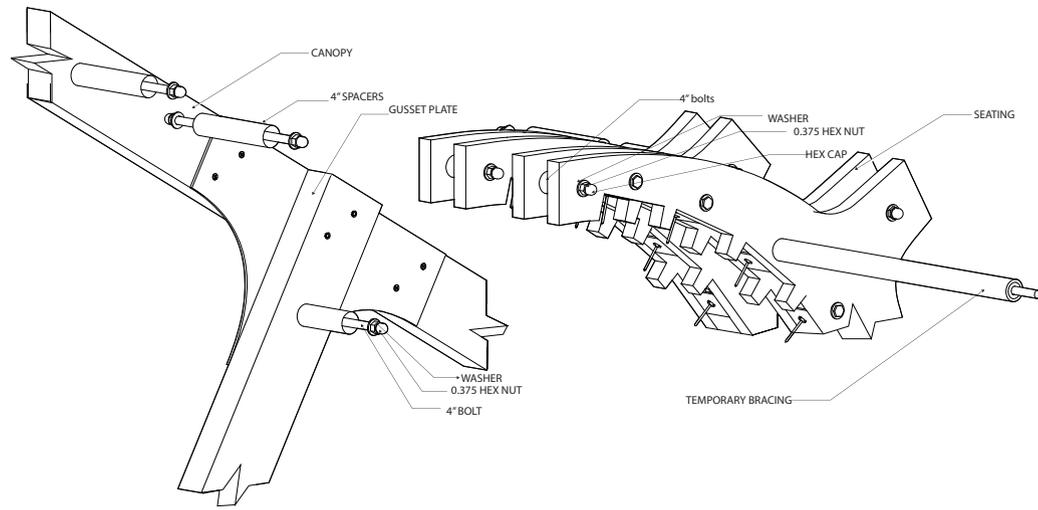
spiral arrangement



spiral arrangement

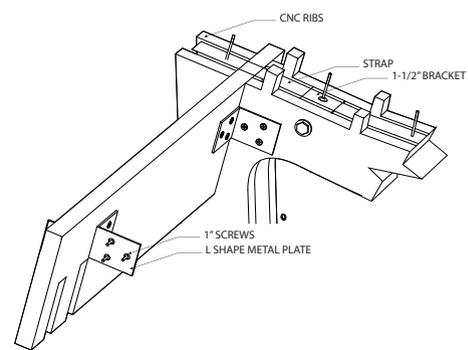


spiral frames to chair body connection

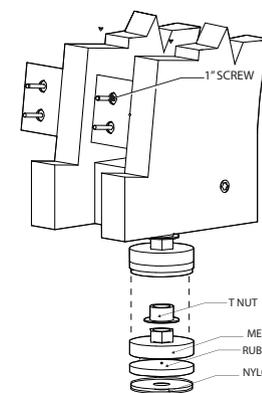


CANOPY SPACER CONNECTION DETAIL

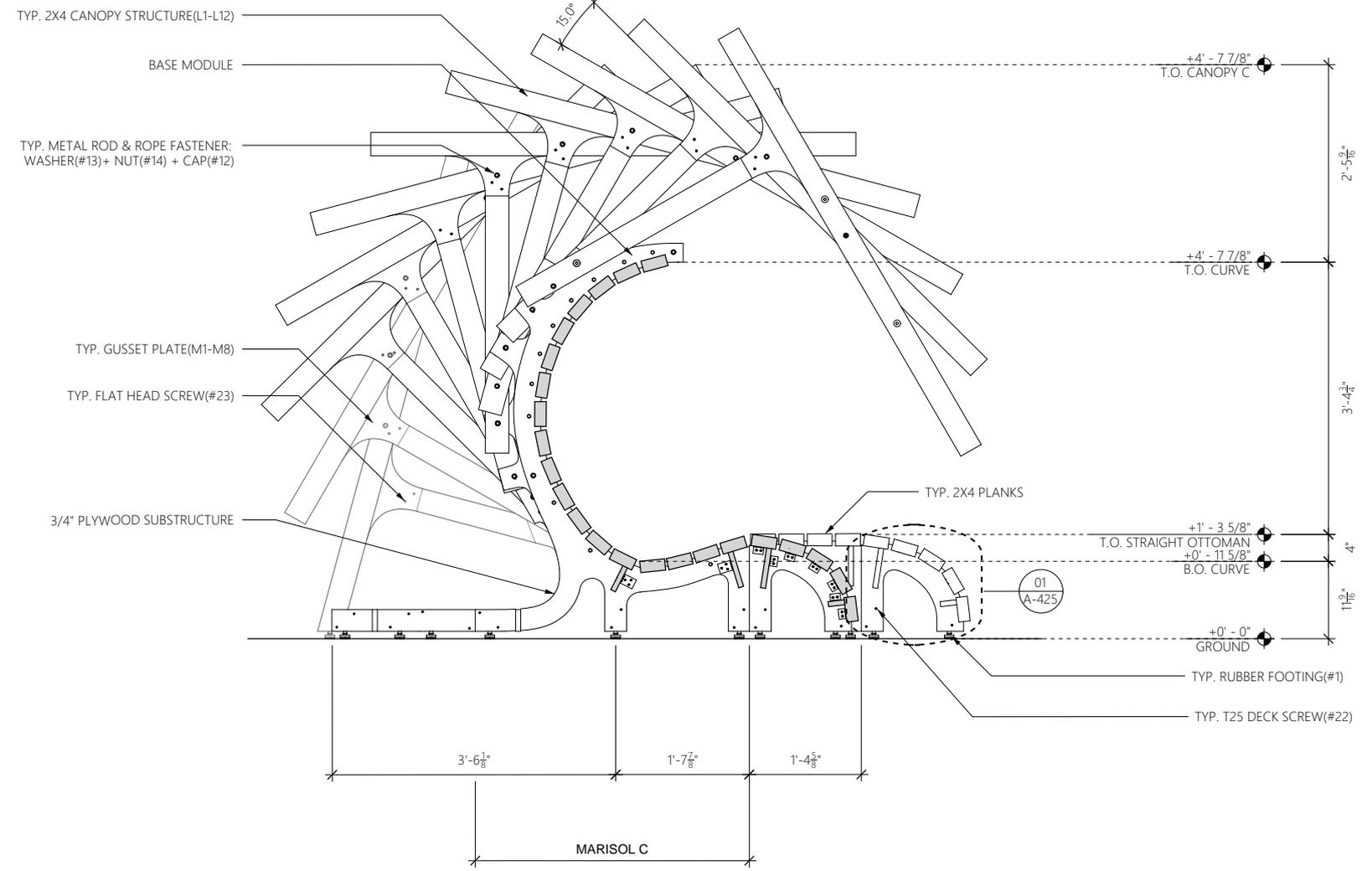
RIB SPACER CONNECTION DETAIL



LATERAL SUPPORT CONNECTION DETAIL



FOOTING CONNECTION DETAIL



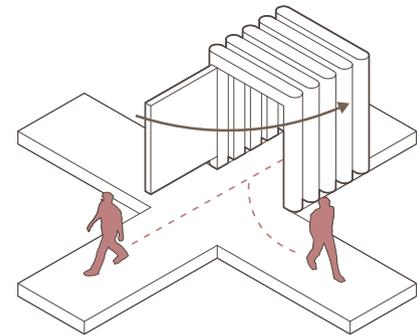
switches

Park Structure

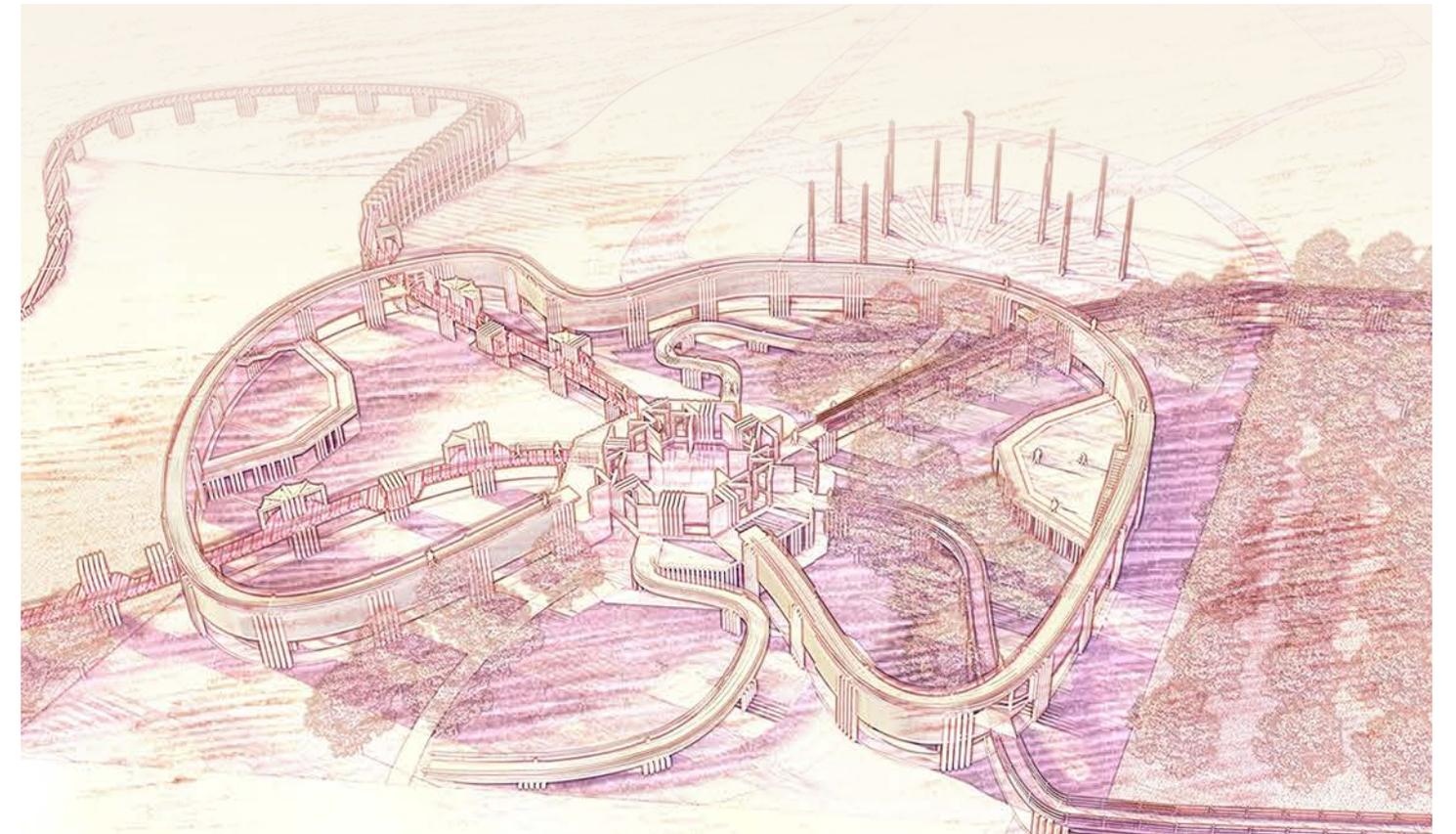
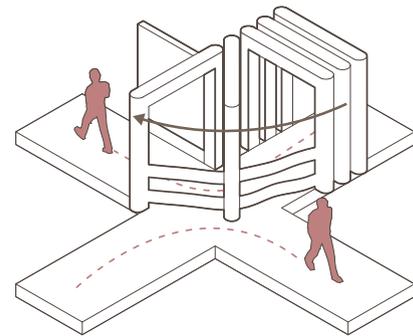
Spring 2024

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

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

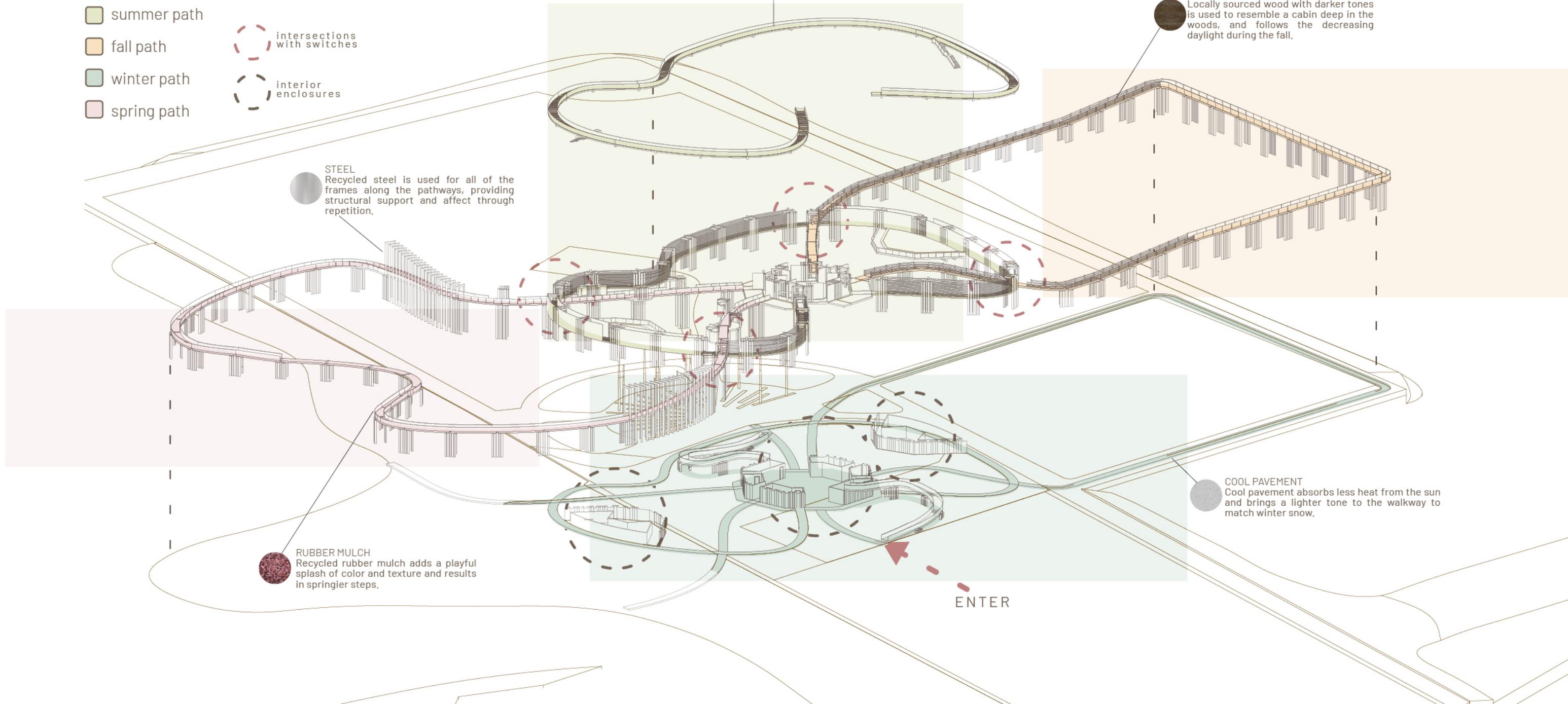
DARK WOOD
 Locally sourced wood with darker tones is used to resemble a cabin deep in the woods, and follows the decreasing daylight during the fall.

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

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

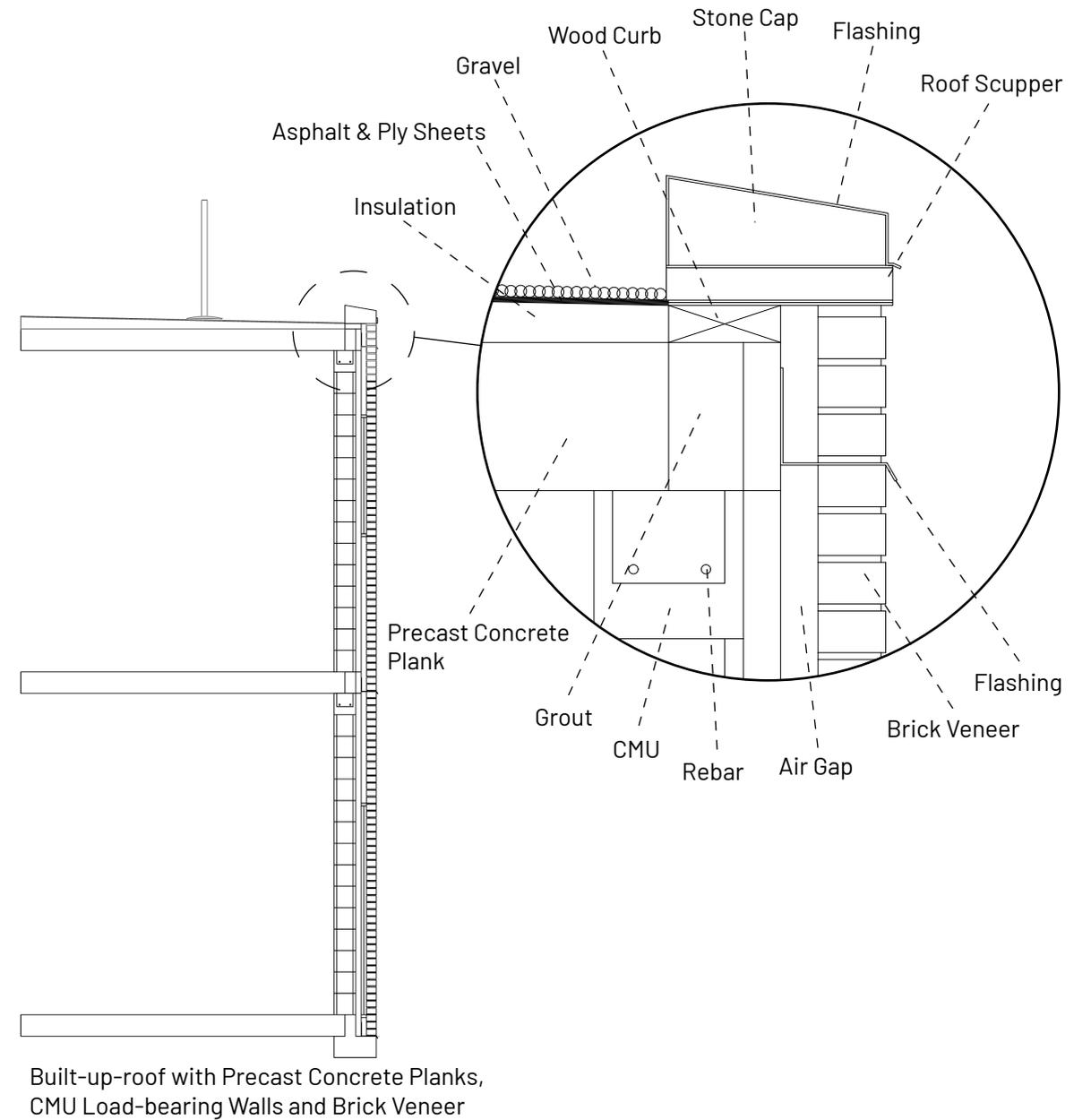
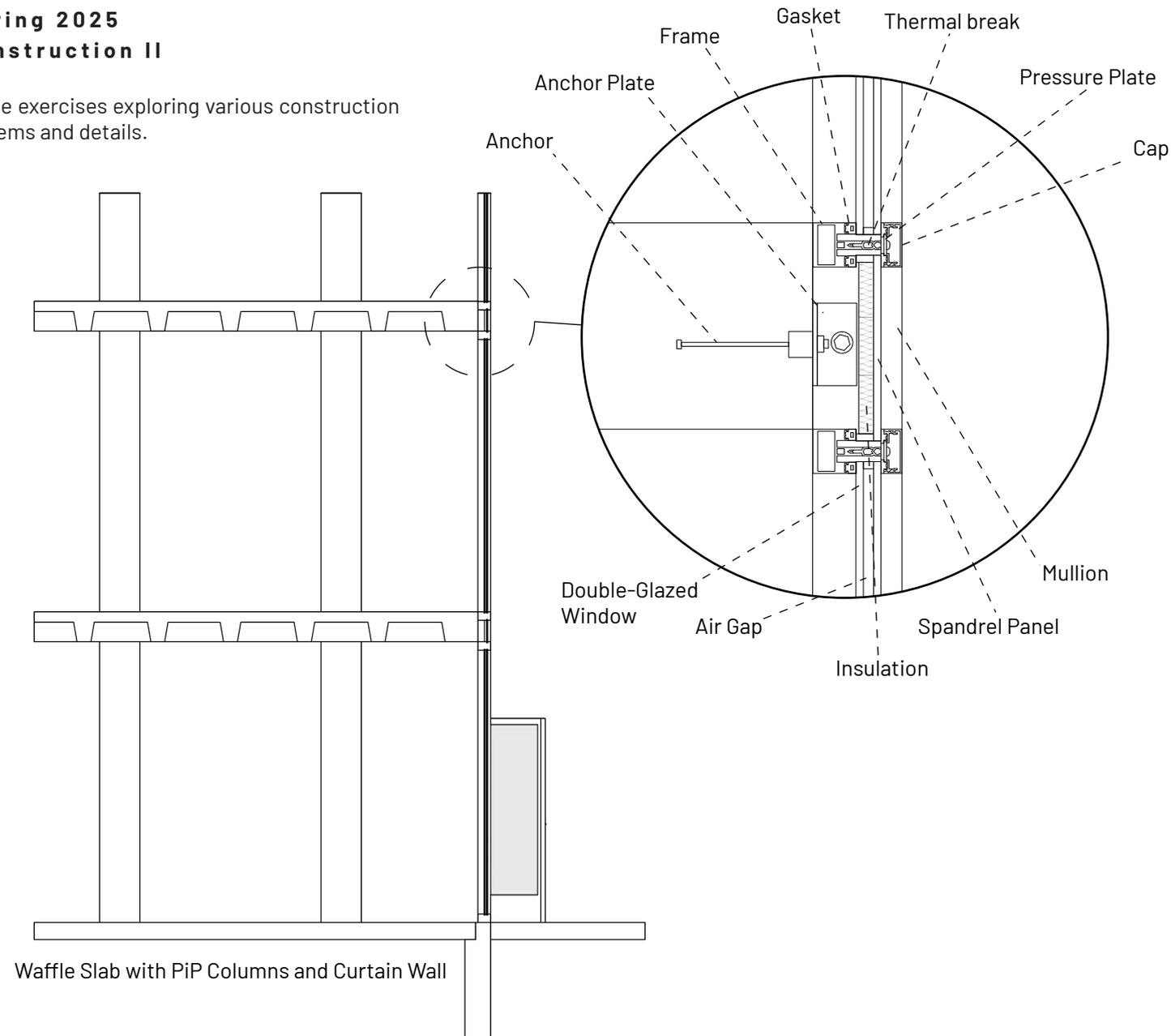




construction details

Spring 2025
Construction II

Some exercises exploring various construction systems and details.





day trip to new york, spring 2023

contact

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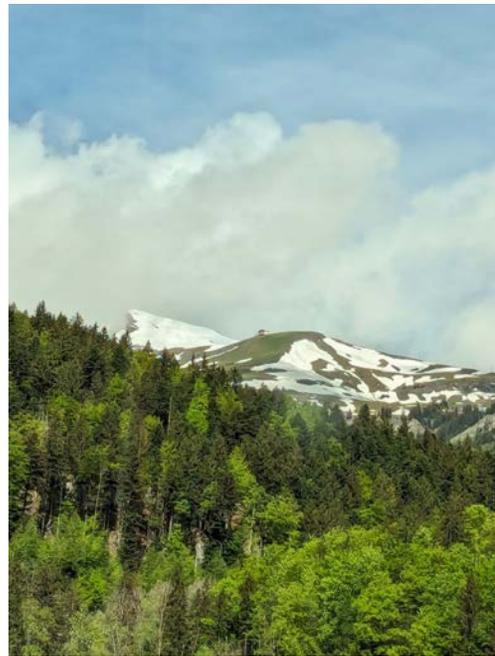
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exploring gandria, summer 2024



vacation in switzerland, summer 2024