



Mia Hoormann

[ portfolio | 2026 ]



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## MIA HOORMANN, AIAS

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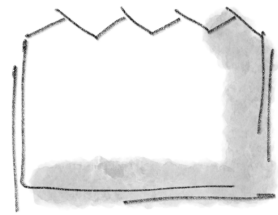
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<b>EDUCATION</b>	2023 - Present	<b>The University of Kansas</b>   Lawrence, Kansas   GPA 3.9 + Master of Architecture, Anticipated Graduation: 2028 + Honors College
	Summer 2025	<b>Study Abroad in Southern Europe</b>   Spain, Portugal
<b>INVOLVEMENT</b>	2023 - Present	<b>American Institute of Architecture Students</b>   Officer 2023 - 2024 First Year Representative + relayed information to 130 students 2024 - 2025 Social Media and Outreach Officer + created and posted graphics to Instagram 2025 - Present NCARB Licensure Representative
	2025 - Present	<b>Mentorship Collaborative</b> + first year studio mentor
<b>EXPERIENCE</b>	2025 - Present	<b>Teaching Assistant</b>   University of Kansas School of Architecture + ARCH 103: Introduction to Architecture & Interior Architecture ARCH 524: Structures I & ARCH 624: Structures II + Hold weekly office hours to assist students with work + Grade weekly assignments
	2023 - 2025	<b>Aquatics Lifeguard</b>   Lifetime Fitness + Managed high stress environment with many children + Actively worked to maintain clean and safe environment
	2021 - 2023	<b>Volunteer Student Election Judge</b>   MO Local Government + Tracked voter traffic based on site to site data analysis
<b>AWARDS</b>	2023 - Present	<b>Dean's List</b>   University of Kansas School of Architecture & Design
	2023 - Present	<b>Chancellor's Scholarship</b>   University of Kansas
<b>SKILLS</b>		<b>3D Modeling</b>   Rhino, Grasshopper, Revit, SketchUp, Hand Modeling, 3D Printing, Laser Cutting <b>2D Drafting</b>   Hand Drafting <b>Graphics</b>   InDesign, Illustrator, Photoshop, Procreate, TwinMotion, Enscape
<b>REFERENCES</b>	<b>Jae D. Chang, PhD</b> Associate Dean of Research Professor of Architecture School of Architecture & Design The University of Kansas jdchang@ku.edu	<b>Kent Spreckelmeyer, FAIA Emeritus</b> Professor of Architecture School of Architecture & Design The University of Kansas (785) 331-8309 kents@ku.edu

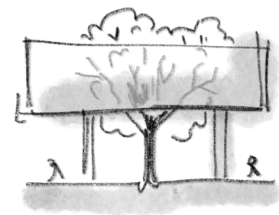
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Wichita Community Recreation Center

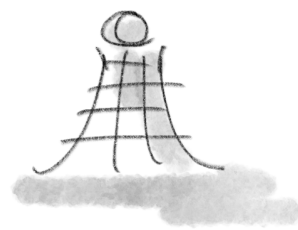
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**02**

Greenway Food Hall

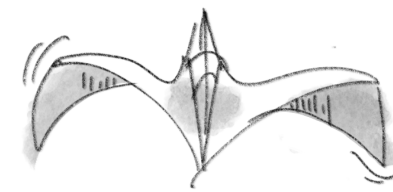
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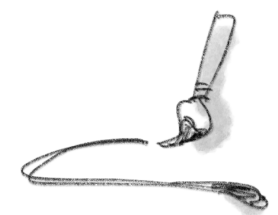
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# WICHITA COMMUNITY RECREATION CENTER

Fall 2025 | Commercial

Professor Amy Van de Riet  
Wichita, Kansas  
40,000 sq. ft.

**Designed to create a space that is engaging and accessible for the entire community.**

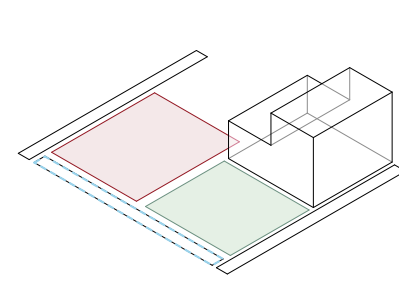
This semester, our studio worked in partnership with the Wichita Architectural Foundation to truly immerse ourselves in the community of Wichita. We were tasked with creating a Community Recreation Center, as well as an adjacent greenspace, that would support the growing downtown of Wichita. In this project, my main goals revolved around accessibility and sustainability, creating a place fit for all members of the growing Wichita community.



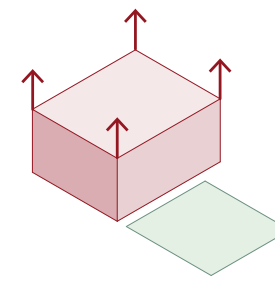
Image created using  
Rhino & Illustrator



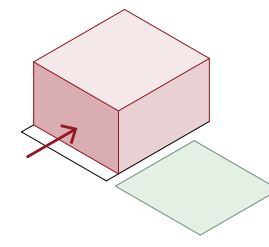
Our site is located in Wichita's Central Business District, surrounded by a wide variety of businesses and locations. One notably being the KU Biomedical Center, a very prominent building to the East of the site. The Central Business District offers many chances for flexibility in design: no height restrictions, setback restrictions, or easement restrictions.



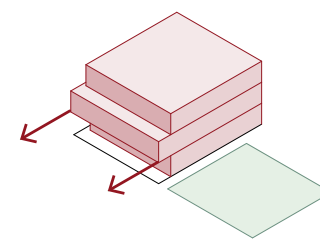
site planning to understand prominent streets and surrounding context



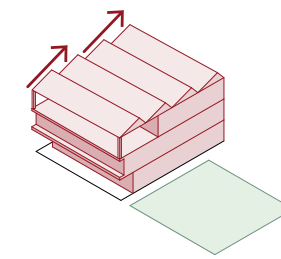
maximizing site floor area ratio and acknowledge greenspace



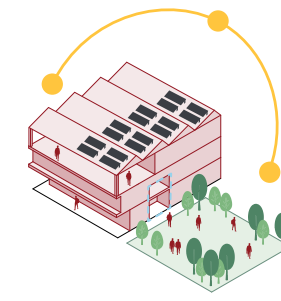
setback and raise height to give back space to the street



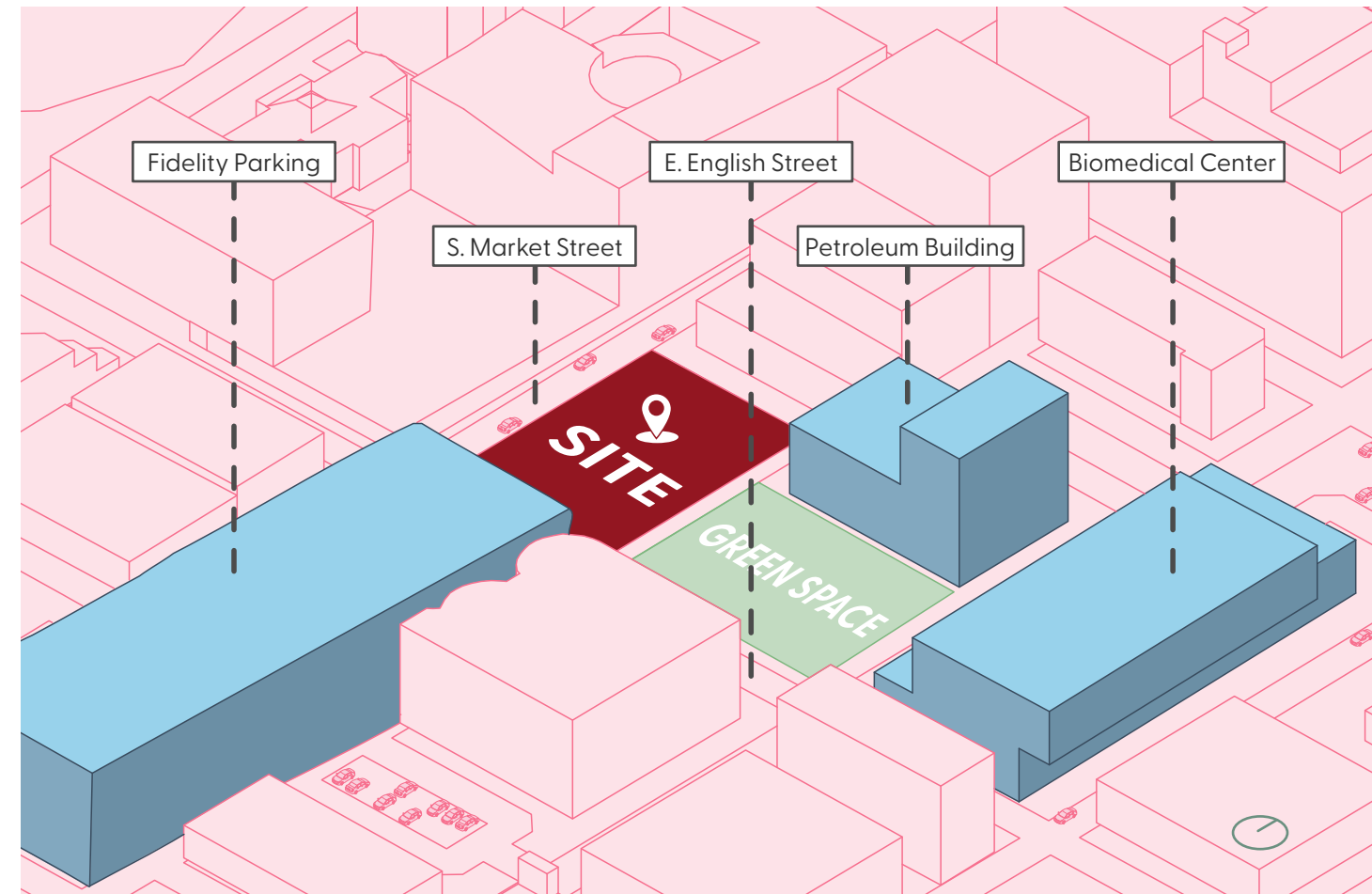
create overhang to provide shading and sense of safety to draw users in

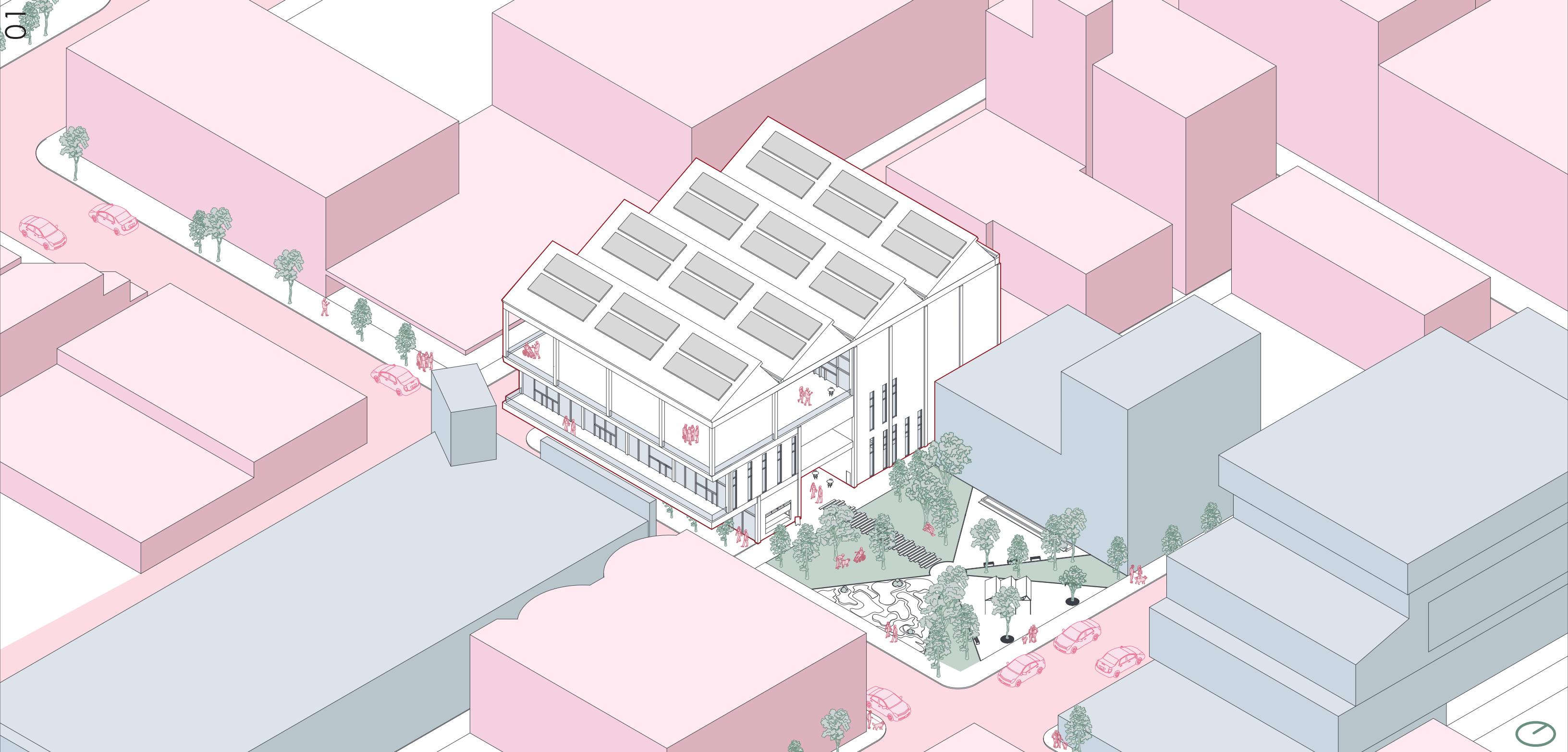


dynamic rooftops to create unique lighting and solar opportunities



activate greenspace and create reusable energy source





### Wichita's Growing Downtown

Over the next 10 years, Wichita is projected to grow in both population and business. The new KU Biomedical Center will provide new services for the entire community, and bring a new group of students to Wichita. With a growing community, it is more important than ever to create spaces for the community; with resources and the ability to be flexible and accessible for

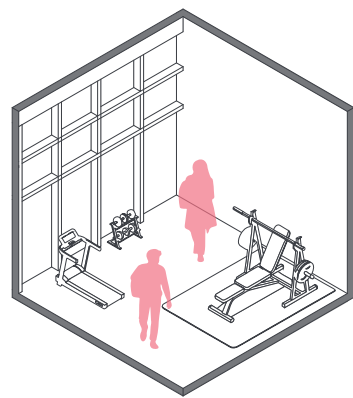
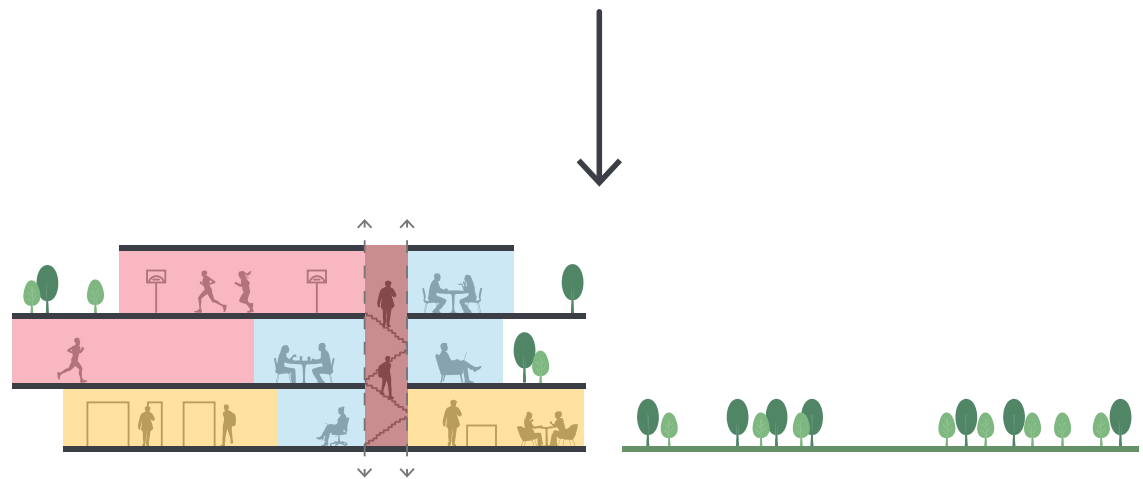
all, the community recreation center will continue to help cultivate the growth of downtown Wichita. On the corner of E. English Street and S. Market Street, the recreation center is accessible to all corners of the community: surrounding prominent parking spaces, apartments, and local businesses, this is a space for all needs, all ages, and all fun.

### Colorful and Community-Based

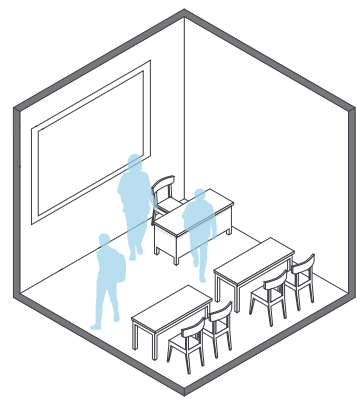
The most important design goal, and the overall driving concept of this project, was the create a space that is engaging and accessible for the entire community. To align with these goals, many choices were made to make a friendly and welcoming space, with color being the most integral to achieving it. Throughout the building, all the chosen colors were meant to create a

stimulating and engaging experience for all age groups. As the programmatic requirements and design goals all revolved around the community, the playful nature of the chosen color palette is meant to reflect the colorful and vibrant community who the space is for.

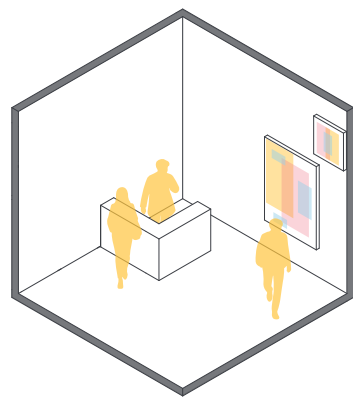
GREEN BALCONY COURTS STUDY GREEN LOUNGE BALCONY  
 FITNESS STUDY LOUNGE MULTI GREEN PURPOSE BALCONY  
 GALLERY ADMIN OFFICE CIRCULATION CAFE OUTDOOR GREENSPACE



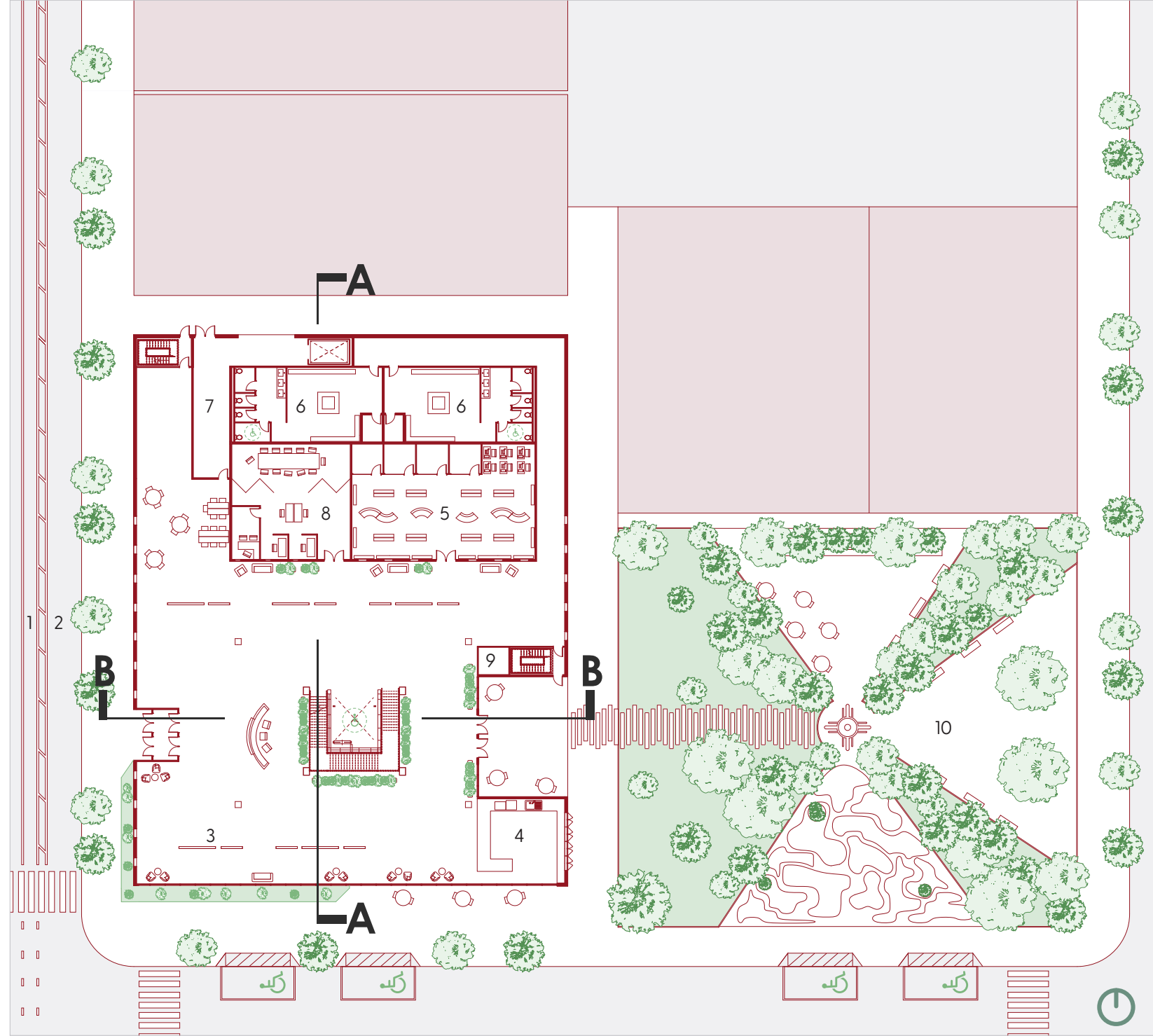
FITNESS



MULTI-PURPOSE



CAFE & GALLERY



### Community-Based Programming

When programming, there were two angles to possible go from. Leaning more into the recreation aspects of the program, or the community aspect of it. Deciding that the community aspects of the programming was more important to be accessible for the community, many of those needs are centered more on the first two levels of the plans.

It was also important that there was always access to greenspace on every floor; every floor has either a balcony or direct access to the outdoor greenspace.

### LEVEL 00

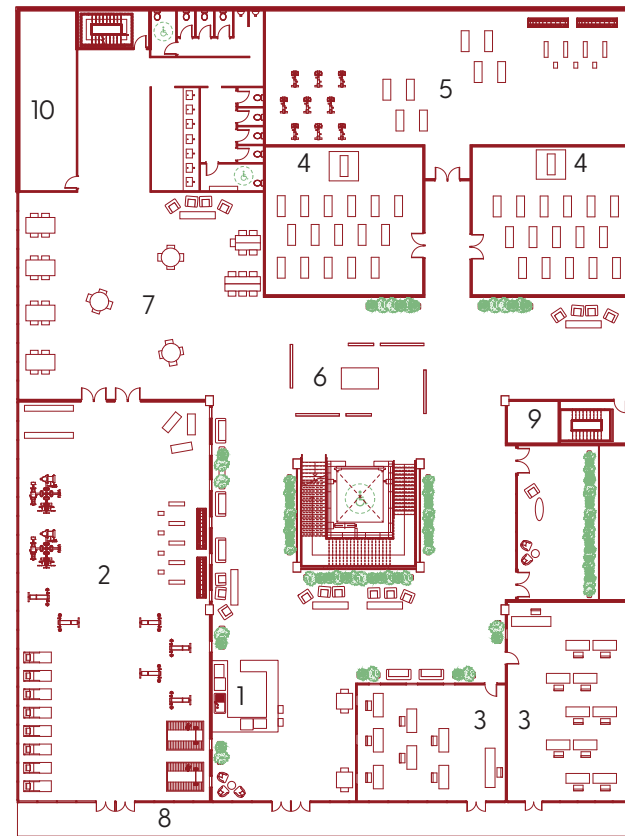
- 1. pre-existing bike lanes
- 2. pre-existing parking
- 3. public lobby + gallery
- 4. cafe
- 5. community resource center
- 6. locker rooms
- 7. loading dock
- 8. offices
- 9. MEP
- 10. green space



### Defining Entries

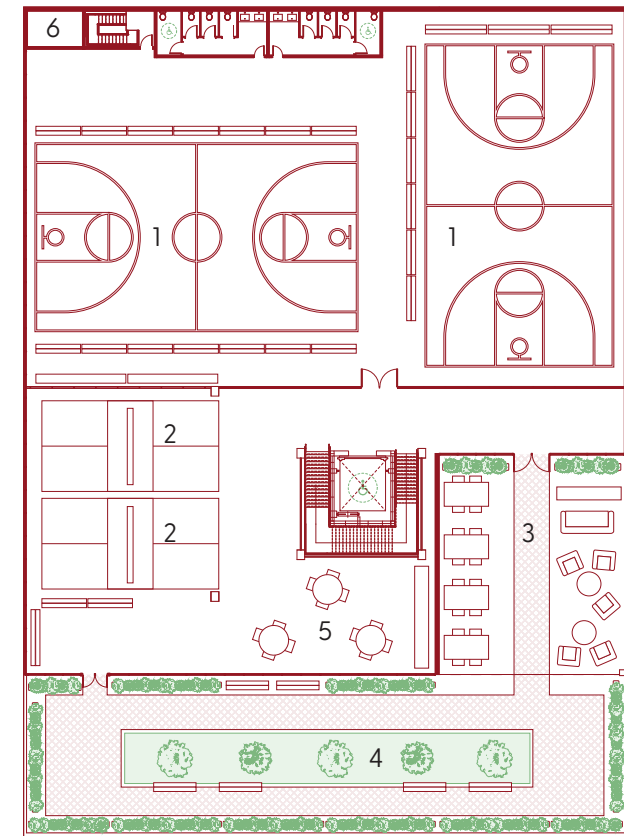
While the site is located on East English Street and South Market Street, it is important that the most active street near the site is Broadway Street to the East of the green space. Noting this street, I decided to use the green space to create a “front lawn” effect, defining the main entrance to the building.

When looking at the section below, it is easy to see the recessed entry to the East and West sides of the building. Along with the balcony on the East of the second floor that gives access to the green space.



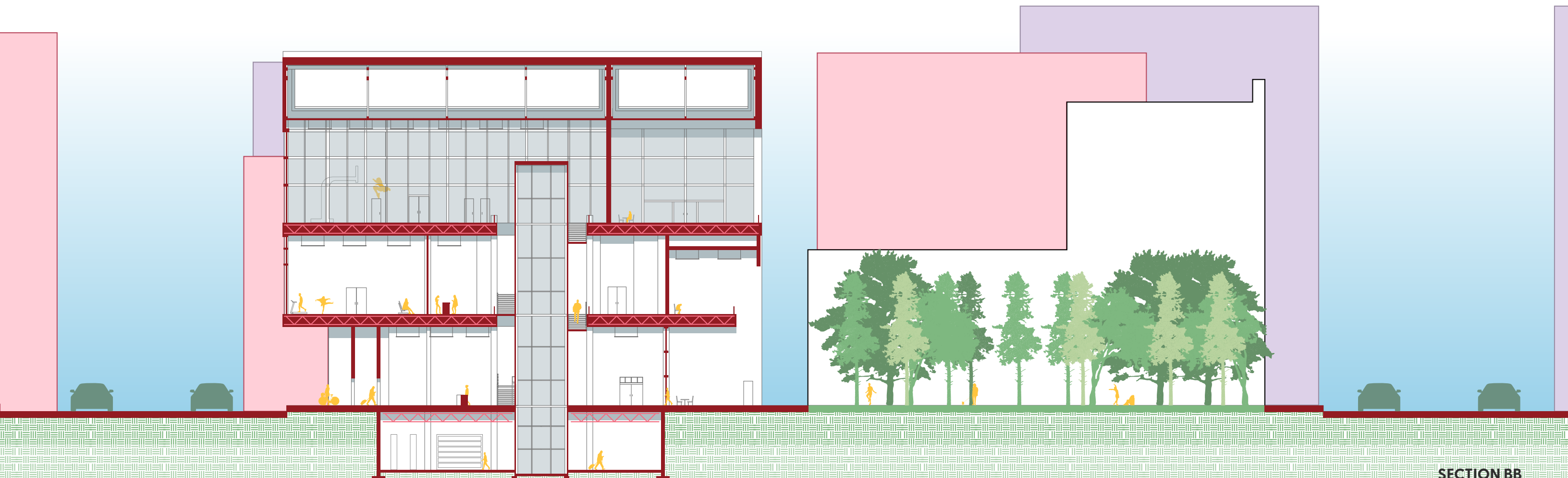
### LEVEL 01

- 1. smoothie bar
- 2. gym
- 3. multipurpose rooms
- 4. yoga studio
- 5. hiit room
- 6. rotating gallery
- 7. student flex-space
- 8. balcony
- 9. MEP
- 10. storage



### LEVEL 02

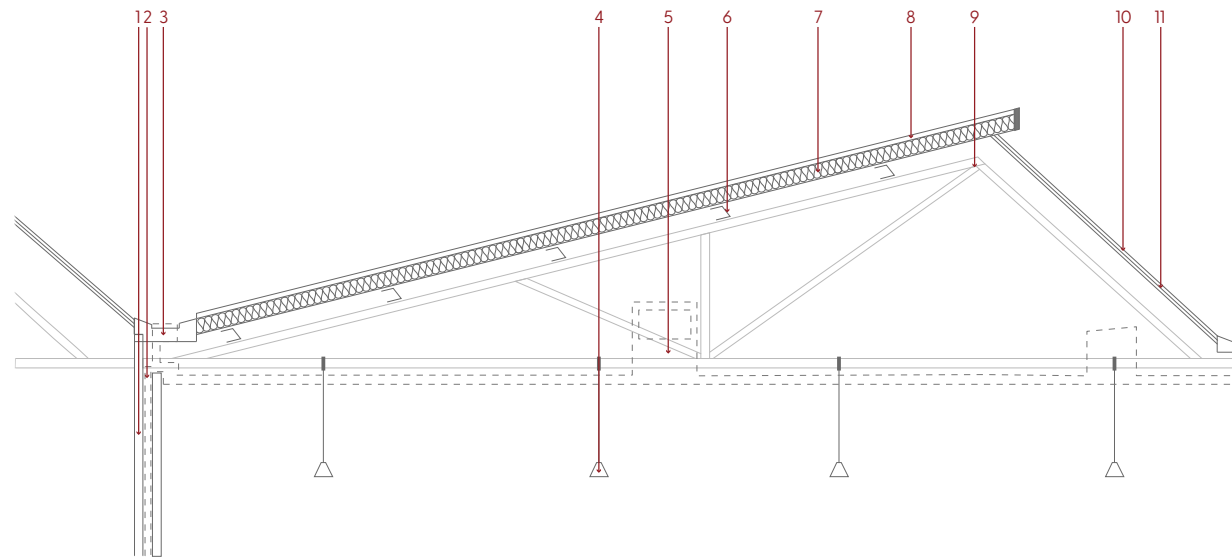
- 1. basketball courts
- 2. pickleball courts
- 3. outdoor lounge
- 4. rain garden
- 5. lockers + waiting area
- 6. MEP



SECTION BB

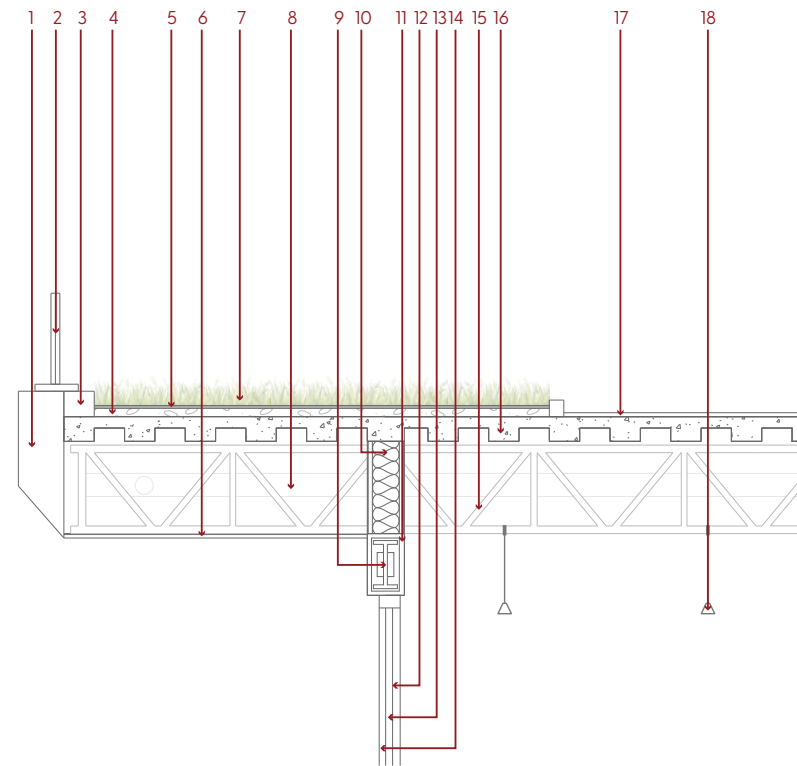
**DETAIL 1 | 1/16" = 1'-0"**

- 1. Cladding
- 2. Drainage System
- 3. Single-Ply Roofing Insulated Gutter
- 4. Lighting Fixture
- 5. Air Duct Return Vent
- 6. Support Beam
- 7. Fiberglass Insulation
- 8. Aluminum Standing Seam
- 9. Custom Sawtooth Steel Truss Frame
- 10. Insulated Glass Unit



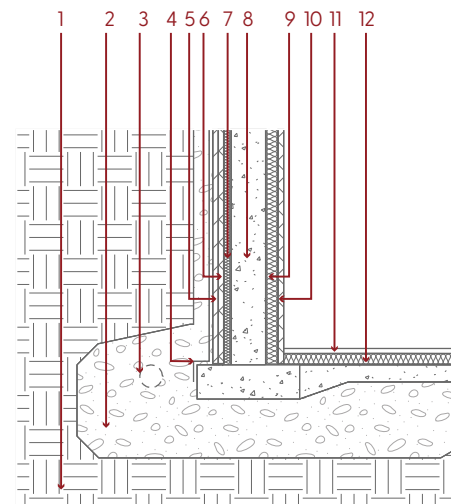
**DETAIL 2 | 1/8" = 1'-0"**

- 1. Standing Seam Panel
- 2. Glass Railing
- 3. OSB Sheathing
- 4. Gravel
- 5. Soil
- 6. Steel Sheathing
- 7. Native Plantings
- 8. HVAC Supply Duct
- 9. W12 x H40
- 10. Fiberglass Insulation
- 11. Cavity Wall
- 12. Glass
- 13. Mullion
- 14. Tempered Channel Glass Panel
- 15. Steel Truss
- 16. Concrete Decking
- 17. Floor Plate
- 18. Lighting Fixture



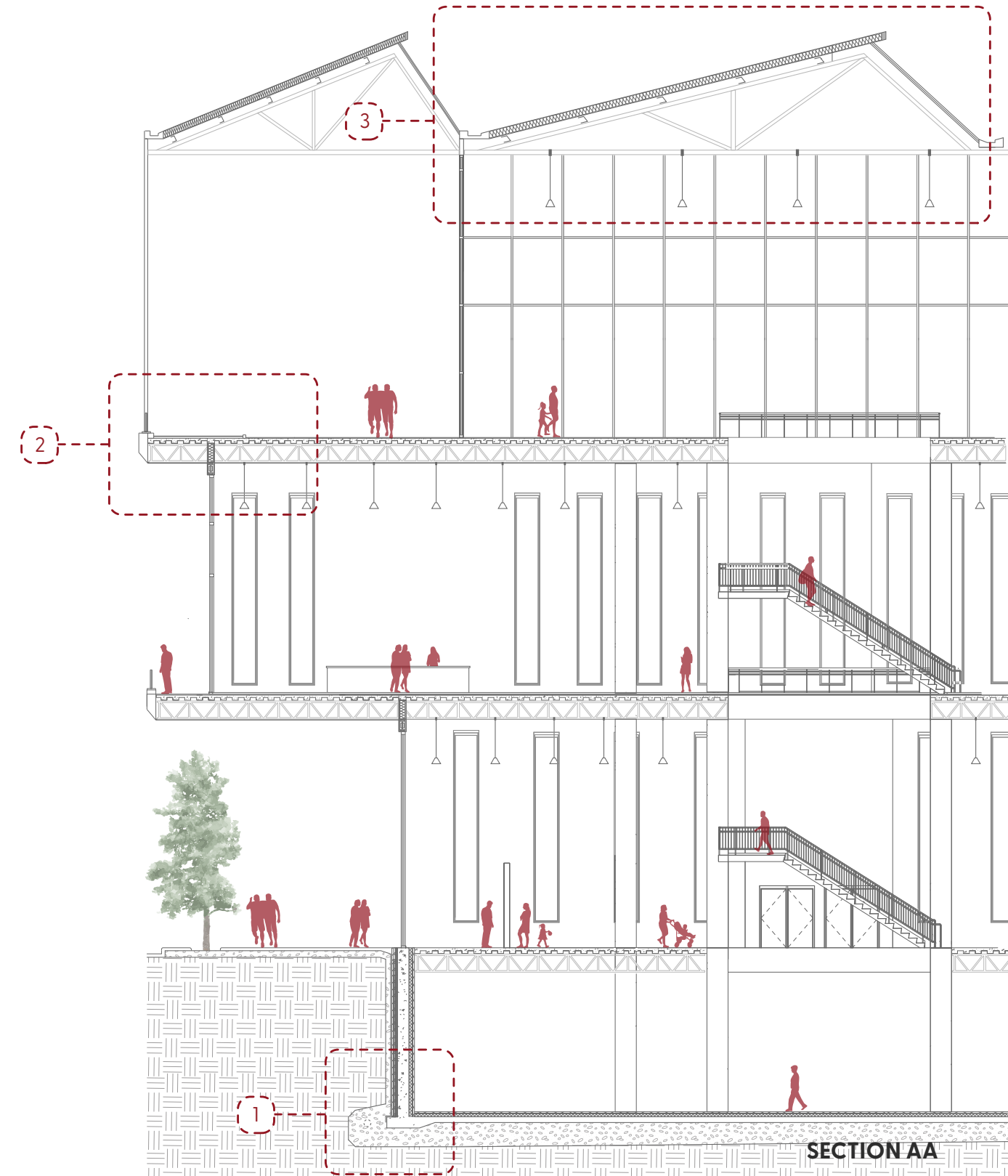
**DETAIL 3 | 1/8" = 1'-0"**

- 1. Earth
- 2. Gravel
- 3. 4" Perforated Drain Pipe
- 4. Drainage Mat
- 5. Thermally Broken Steel Panel
- 6. Rigid Insulation
- 7. Fiberglass Insulation
- 8. Standard Concrete Footing
- 9. Fiberglass Insulation
- 10. Rigid Insulation
- 11. Floor Plate
- 12. Rigid Insulation



**Wall Section Detail**

The sawtooth roof playfully calls back to Wichita's industrial history along with finding a creative way to add the most dynamic lighting into a large open space. The roof and ground details show how the building deals with stormwater and runoff, transferring it to the ground and reusing it in the building system.



## Interior Spaces

The interior spaces are all designed with the core concept of an engaging and accessible space. Lighting is extremely important in all of the spaces, but especially in the top floor gym; the sawtooth roof provides dynamic lighting and also allows the space to feel bigger than it is.

The interiors are colorful, but not overwhelming, allowing for the activities to guide and engage with the community just as much as the architecture.



Level 02 Basketball Courts

# GREENWAY FOOD HALL

Spring 2025 | Commercial

Professor Jae Chang  
Kansas City, Missouri  
100,000 sq. ft.

**Experimental Food Hall, creating a unique way to dine and experience public space in downtown KCMO.**

Kansas City's South Loop Link will create a new piece of infrastructure that will change the urban landscape of Kansas City for the next generations. Using the Link as inspiration, the building "caps" the park on the site, much like the park caps the highway. We were tasked with creating a food hall for the future. With this design, I aimed to reduce the building's footprint as much as possible, and give as much public space to the users as possible.

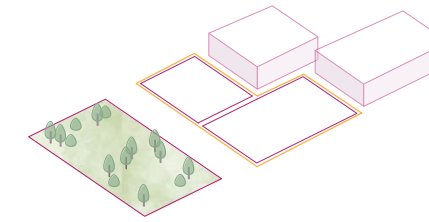
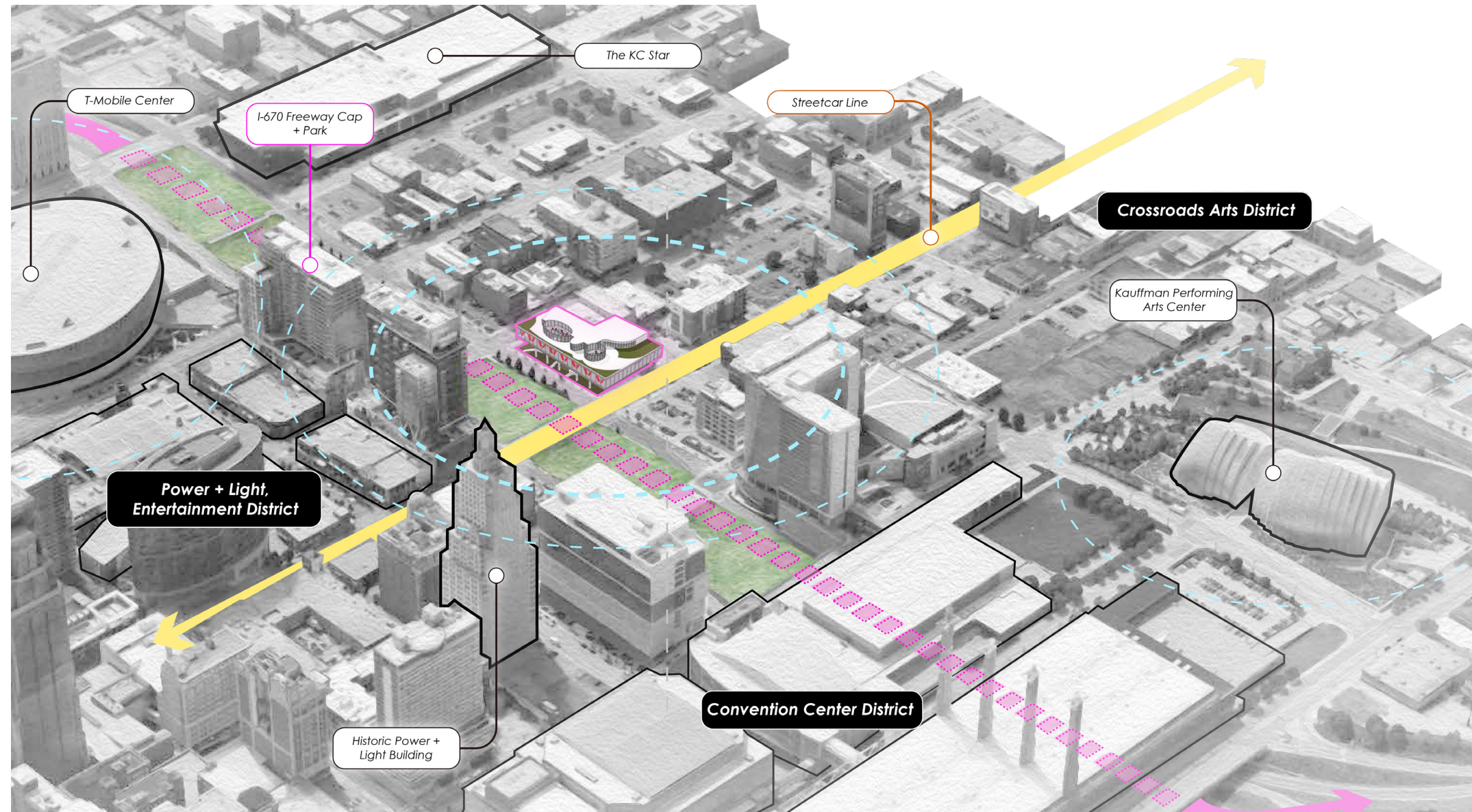


Image created using SketchUp,  
TwinMotion, and Photoshop

## Site Analysis

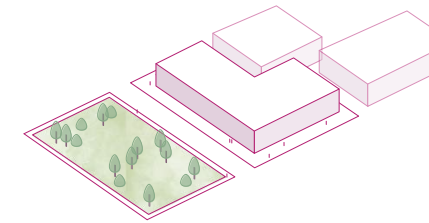
Situated in downtown Kansas City, the site is right next to the new Roy Blunt Luminary park that will begin construction in the upcoming years. The park will cover the existing I-670 that separates the Power & Light District and the Crossroads District. This park will bridge the gap between these two areas.

The site takes advantage of the busy Main Street, as well as the streetcar line that passes through the park, with one of the stops being exactly where the proposed site ends. This park will also increase pedestrian traffic from both sides of the covered freeway.



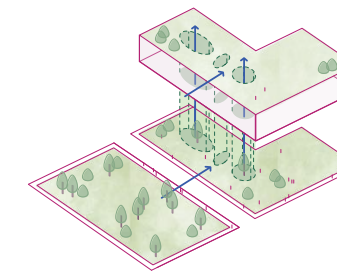
### site

the site is right next to the new South Loop Link, adding a new layer of infrastructure to Kansas City's urban fabric.



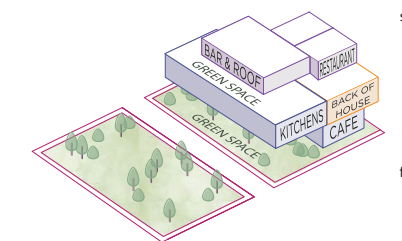
### extrude

taking over both sites, the form is extruded to match the heights of the vernacular.



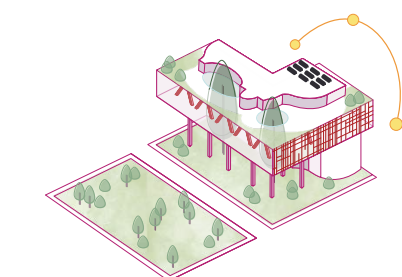
### bring in greenspace

the form is lifted off of the ground, allowing for both horizontal and vertical green space to become apart of the massing.



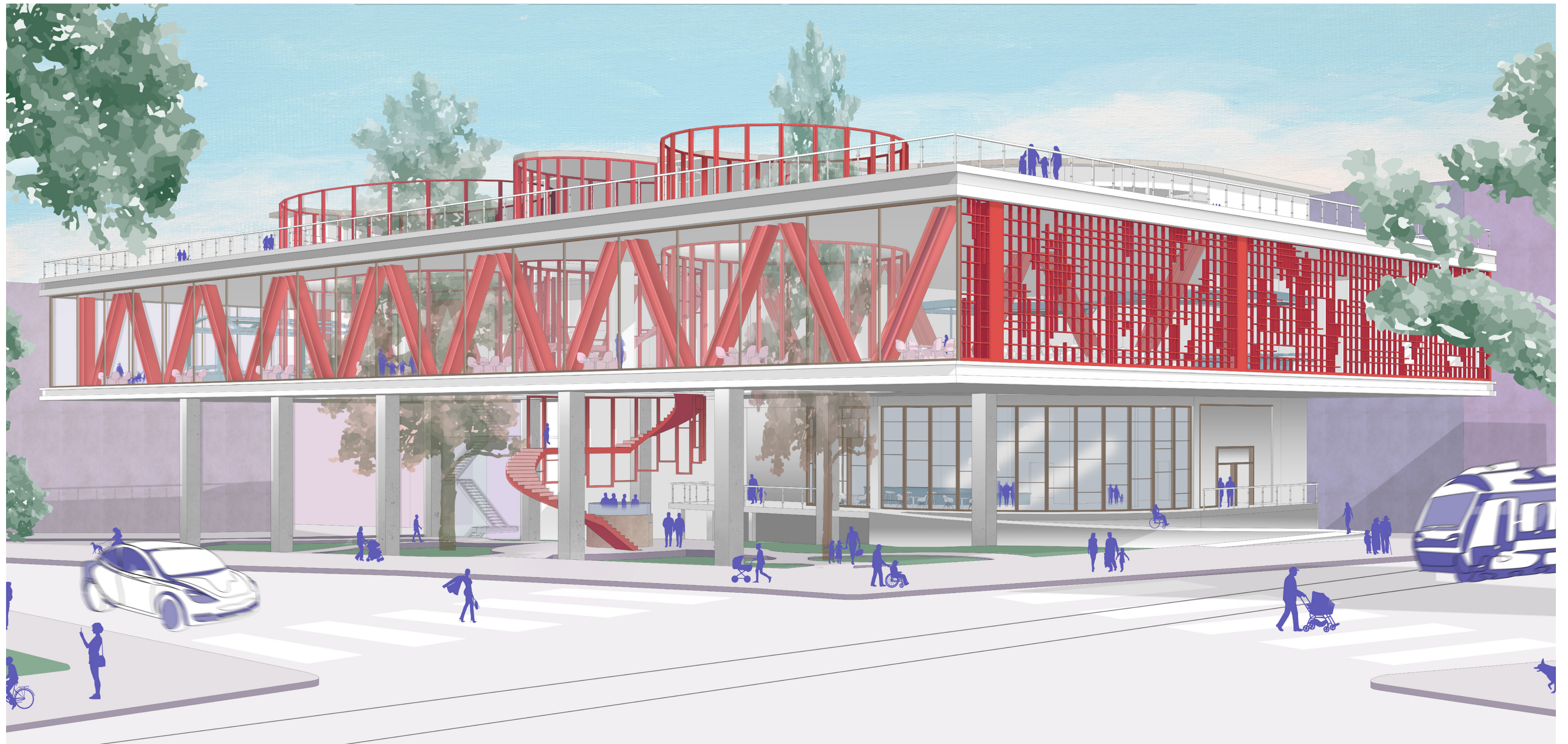
### program

the space is programmed with fast-paced service on the lowest level, and service speed gets slower as the user gets higher into the space.



### for 20+ years

vertical cuts into the form allow for trees to mature over time, not limited by the building's footprint. solar energy and daylighting is utilized, and a blue-green sedum roof to harvest rainwater.



### A New Urban Precedent

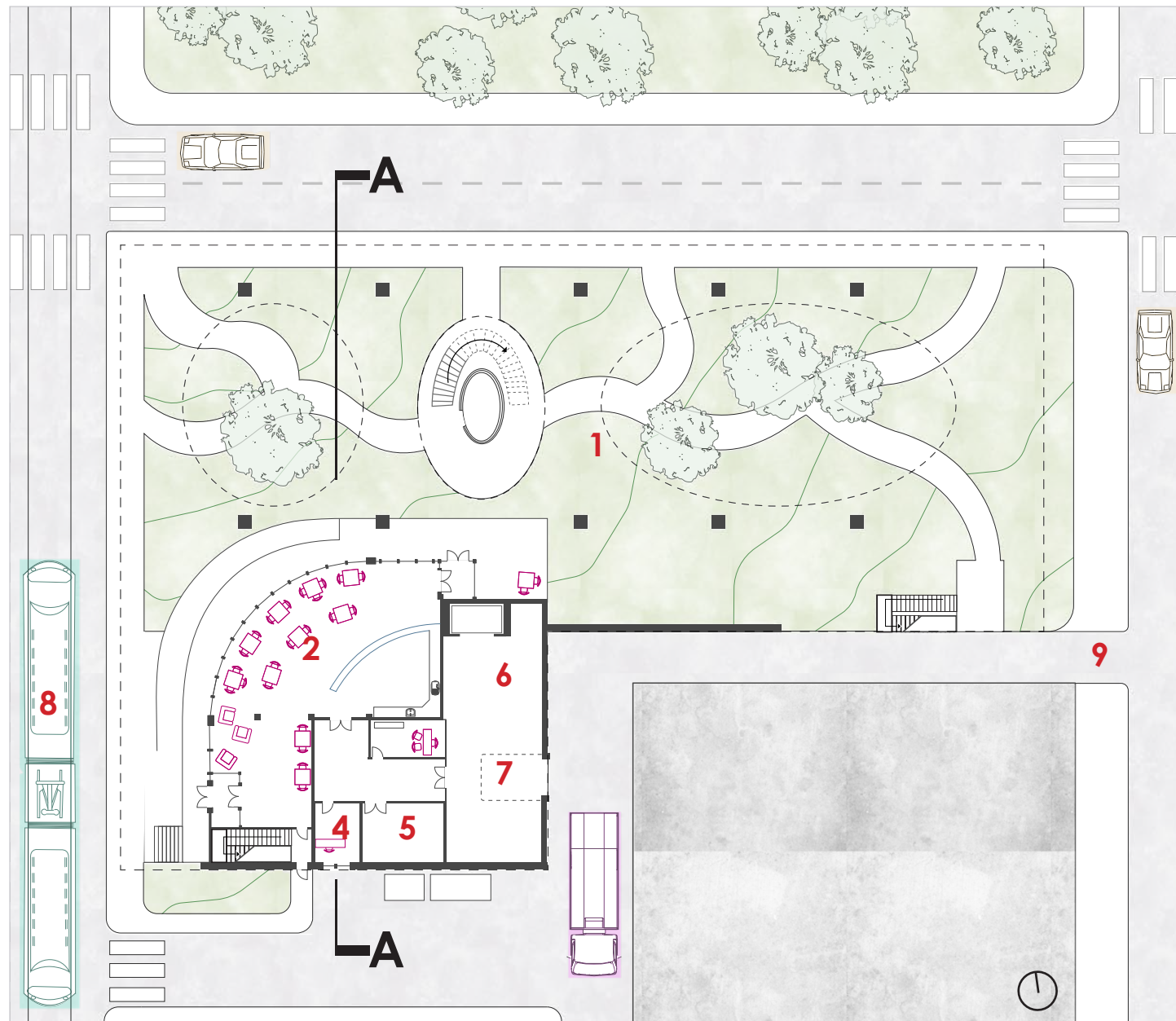
Kansas City's vernacular architecture is full of rich and diverse histories and geometries, but when it came to drawing inspiration for this project there was only one clear inspiration: the park. Using the park as the main precedent of this project, public greenspace was kept in mind as one of the main goals for the space, which is reflected in the final design,

where the main programming is lifted high into the air to allow for the park to almost seep into the site, as it extends from its given space. Large light wells are punched through the central spaces, as to not limit the possibility of future growth. The prominence of the site in the downtown area creates the possibility for an iconic space to landmark the area.

### Color and Structure: An Unlikely Intersection

The exposed Vierendeel truss running through the center of the building serves not only as a point of structure, but something to draw users to the space. In color psychology, red is often associated with energy, excitement, and impulse. Often employed in commercial spaces to drive consumer habits and in relation to the programming of this building to induce hunger.

Red is used to create a statement piece and a core to the building. Apart from color psychology, red also compliments the green of the park and interior vegetation while also standing starkly against it to draw interest from both pedestrian and vehicle traffic. The red structure serves to show the and functionality of the both the building and space at the same time.



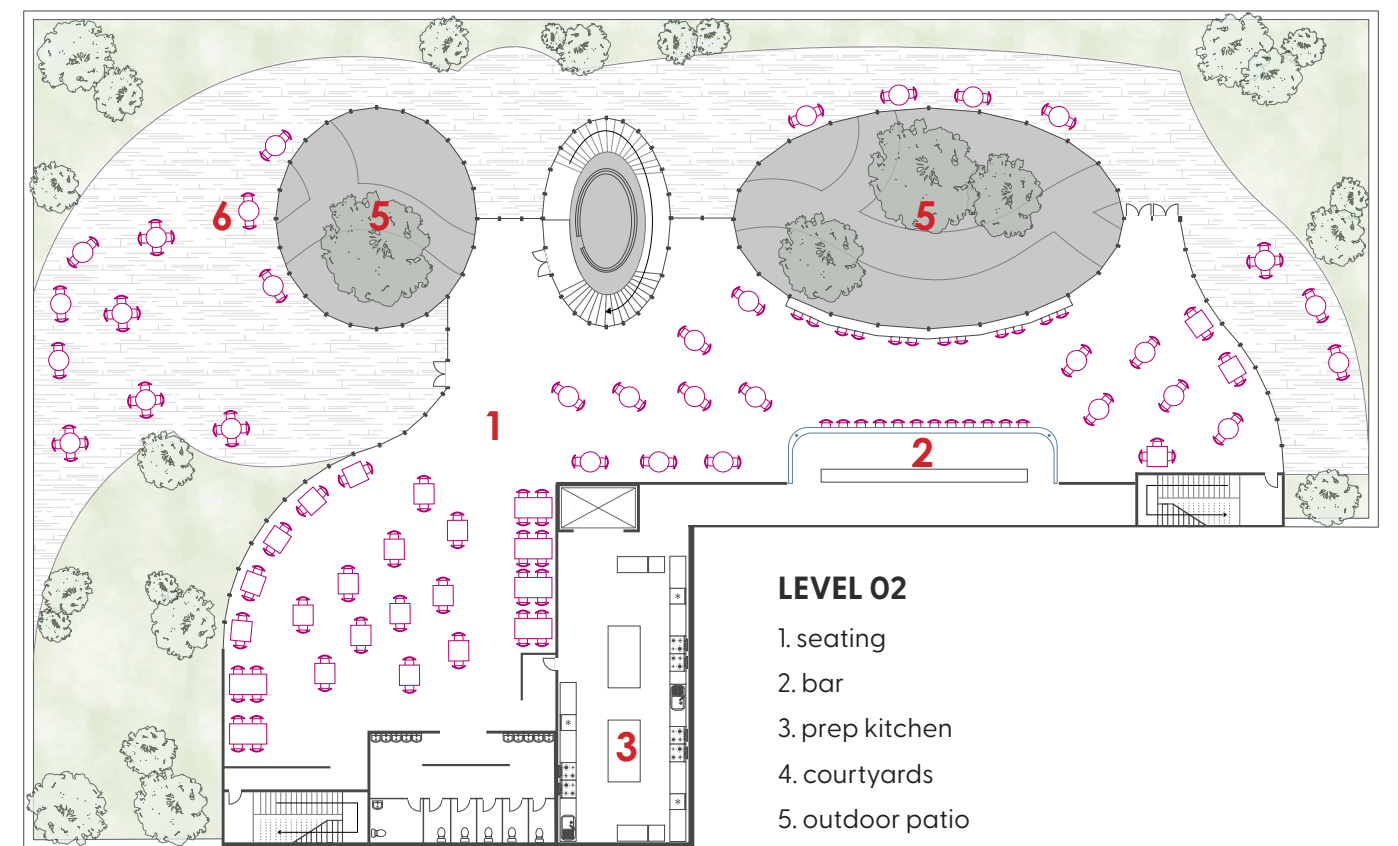
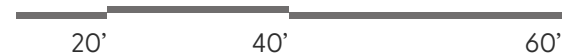
**Reducing the Footprint**

One of the most important requirements to this project was replacing a hundred percent of the site with greenspace. To effectively meet this goal, the 00 level of the building became the 01, lifting the entirety of the program up. This greenspace acts as the extension of the park, allowing it to bleed into the site and expand into Kansas City.

The building is anchored to its site with the coffee shop in the South end of the site, which houses all the back of house and storage facilities as well.

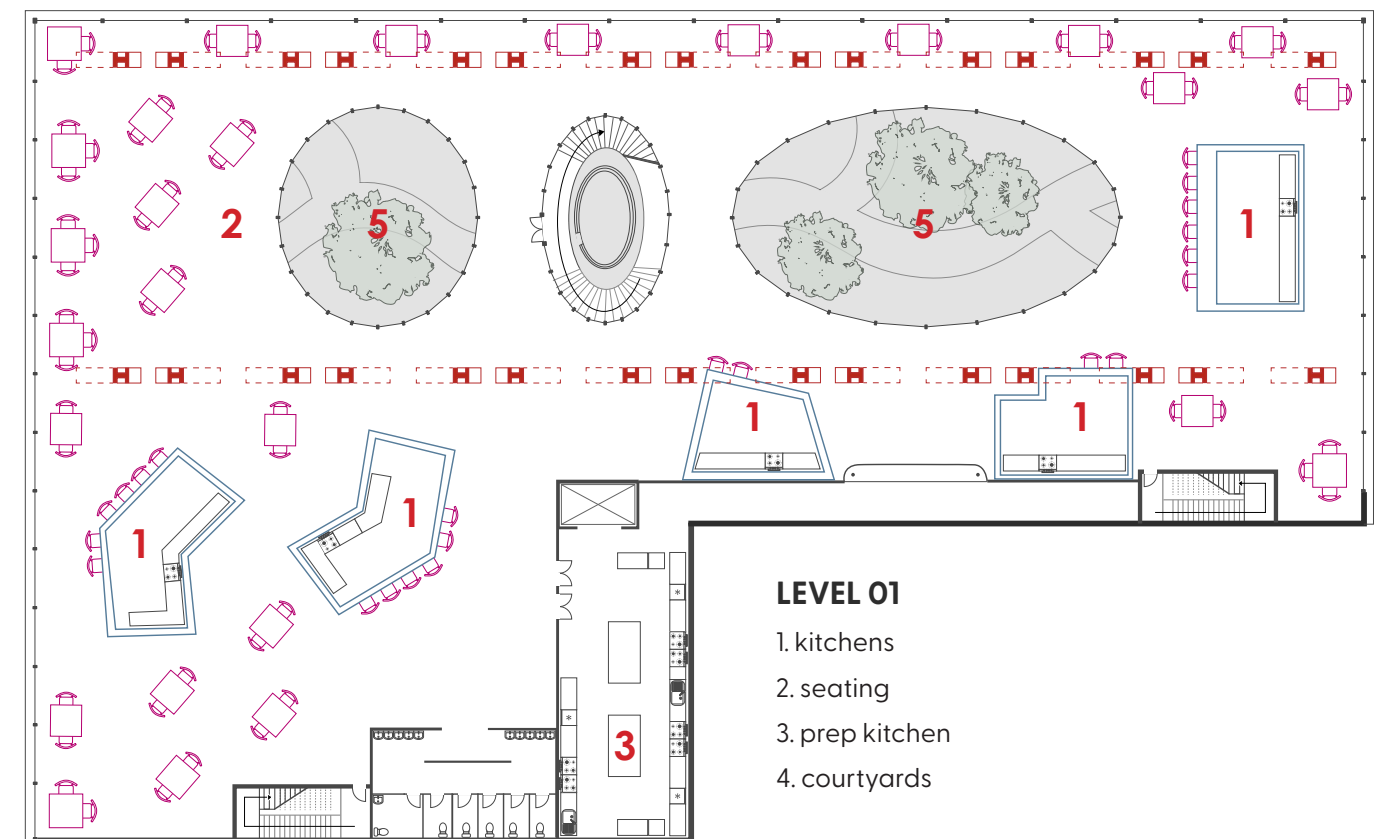
**LEVEL 00**

- 1. park
- 2. cafe
- 3. offices
- 4. MEP & HVAC
- 5. storage
- 6. loading dock
- 7. streetcar stop
- 8. service alley access



**LEVEL 02**

- 1. seating
- 2. bar
- 3. prep kitchen
- 4. courtyards
- 5. outdoor patio



**LEVEL 01**

- 1. kitchens
- 2. seating
- 3. prep kitchen
- 4. courtyards

## Programming for Service

Each level of the hall is designed based on the speed of service. The first level is the quickest speed – a cafe that works with the public space and the streetcar stop. The first level is the tallest, working with the urban scale. As the user moves up through the space, the first fully indoor level is a traditional food hall – with stalls and open seating. This level functions at a slightly slower, but still quick speed that allows users to interact with the city all around. The top level is the shortest of the three floors, and functions at the most human scale. A sit down restaurant and bar encourage users to slow down and take in the city.



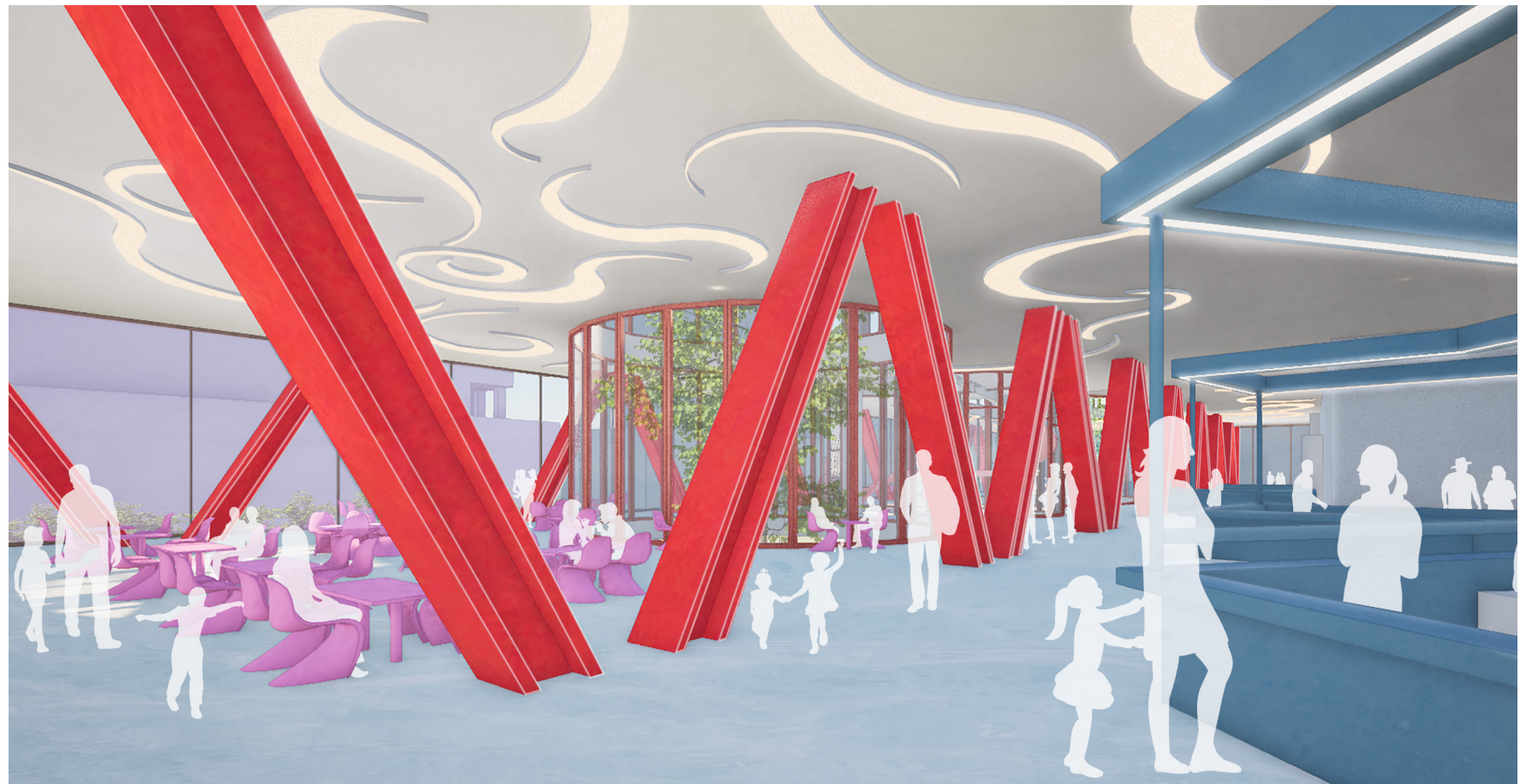
## Interior Spaces

The interior spaces are all designed to accentuate the site of the park and the rest of the downtown area. The public space on the ground floor directly interacts and intersects with the park, allowing for the flow of people to and from both spaces.

The enclosed interior spaces also focus on the environment around it, surrounded in curtain walls, the user is offered views of the city all around. Encouraging interaction and awareness of the urban context that is surrounding it.



Level 00 Public Park & Entrance Space



Level 01 Traditional Food Hall

# X-SEED 4000: A NEW POSSIBILITY

Fall 2025 | ARCH 600: Parametric Modeling

Partner: Avery Krick  
Professor Tzu-Chieh Kurt Hong  
Original Design: Taisei Corporation (1995)  
Mount Fuji, Miyoshi, Japan

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## Recreating a structure that was never built, while exploring parametric modeling in Grasshopper.

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This project's main goal was to recreate a proposed structure that never came to be completely using Grasshopper in Rhino. Throughout the semester, I learned many coding techniques that helped my partner and I recreate the X-Seed 4000. We learned about the importance of parameters in the modeling process, and how one small number has the ability to drastically impact the design. Thank you to our professor, Kurt Hong, for guiding us through this process and pushing us to always strive for something beautiful!



Render by Mia Hoormann  
Created using Grasshopper  
and Photoshop

## What was the X-Seed 4000?

The original form of the building is inspired by Mount Fuji, which became a precedent for us throughout the project. The massing is reflective of a volcano, and the vertical structure also follows the form of the massing.

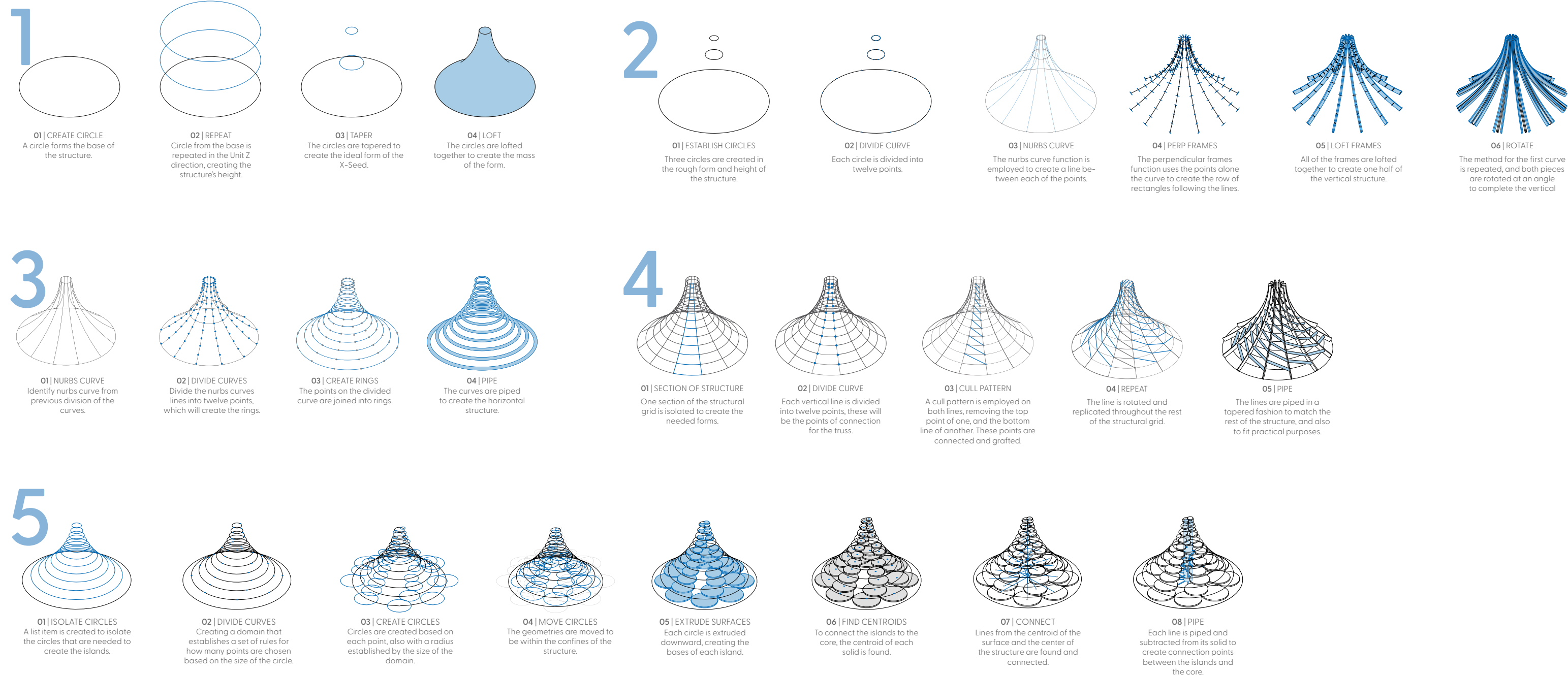
In the original plans, every necessity was meant to be housed inside the tower: schools, groceries, housing, and everything in between. If this project was to be constructed, it would've taken 30 years to build. However, due to it's proposed location in the Pacific Ring of Fire it was too dangerous to build given the current technology.

## Derivation of Subsystems

Each subsystem diagram shows how my partner and I derived the forms in the model, and how they're all connected to the 3 central circles found in diagram 1. These diagrams helped us to understand how each subsystem of the model was connected, and how we could create dynamic and creative iterations using the subsystems shown in the diagrams below.

Diagrams 1, 2, and 5 by Mia Hoormann

Diagrams 3 and 4 by Avery Krick

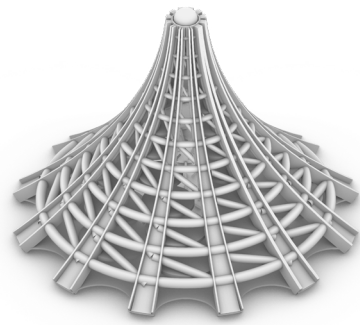


## Design Iterations

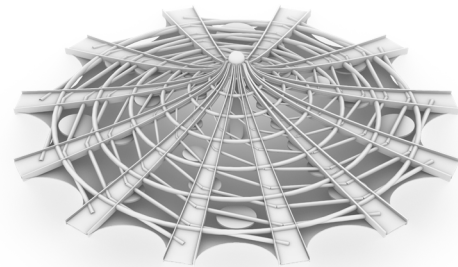
As this class was about parametric modeling, my partner and I wanted to push the limits of what the parameters of the X-Seed could be. Each iteration reflects the same philosophy: everything is connected. This project was a great start to introducing us to parametric design, and how powerful softwares like Grasshopper can be for creating things we didn't think were possible.

Diagrams by Avery Krick

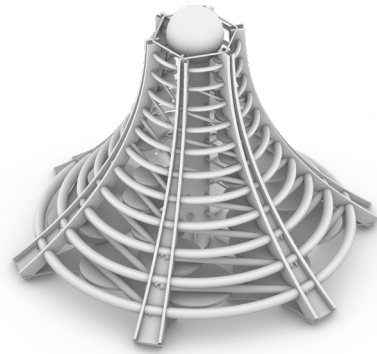
Renders by Mia Hoormann



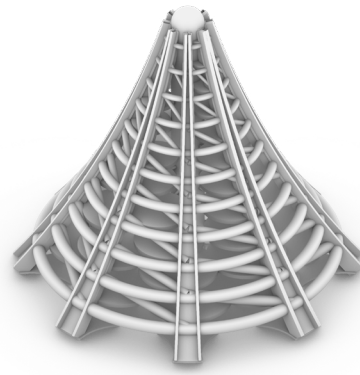
ORIGINAL X-SEED



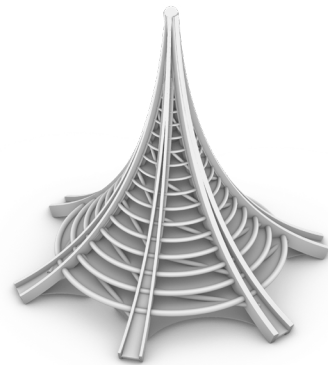
CIRCUS TENT



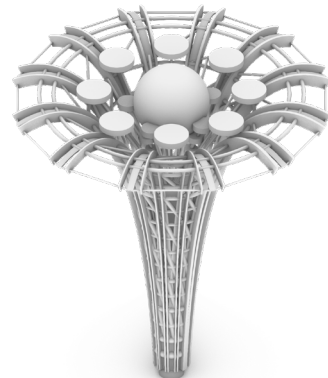
HOURLASS



TRIANGULAR FORM



TEMPLE



TREEHOUSE



# CONTEMPLATION CHAPEL

Fall 2024 | Spiritual

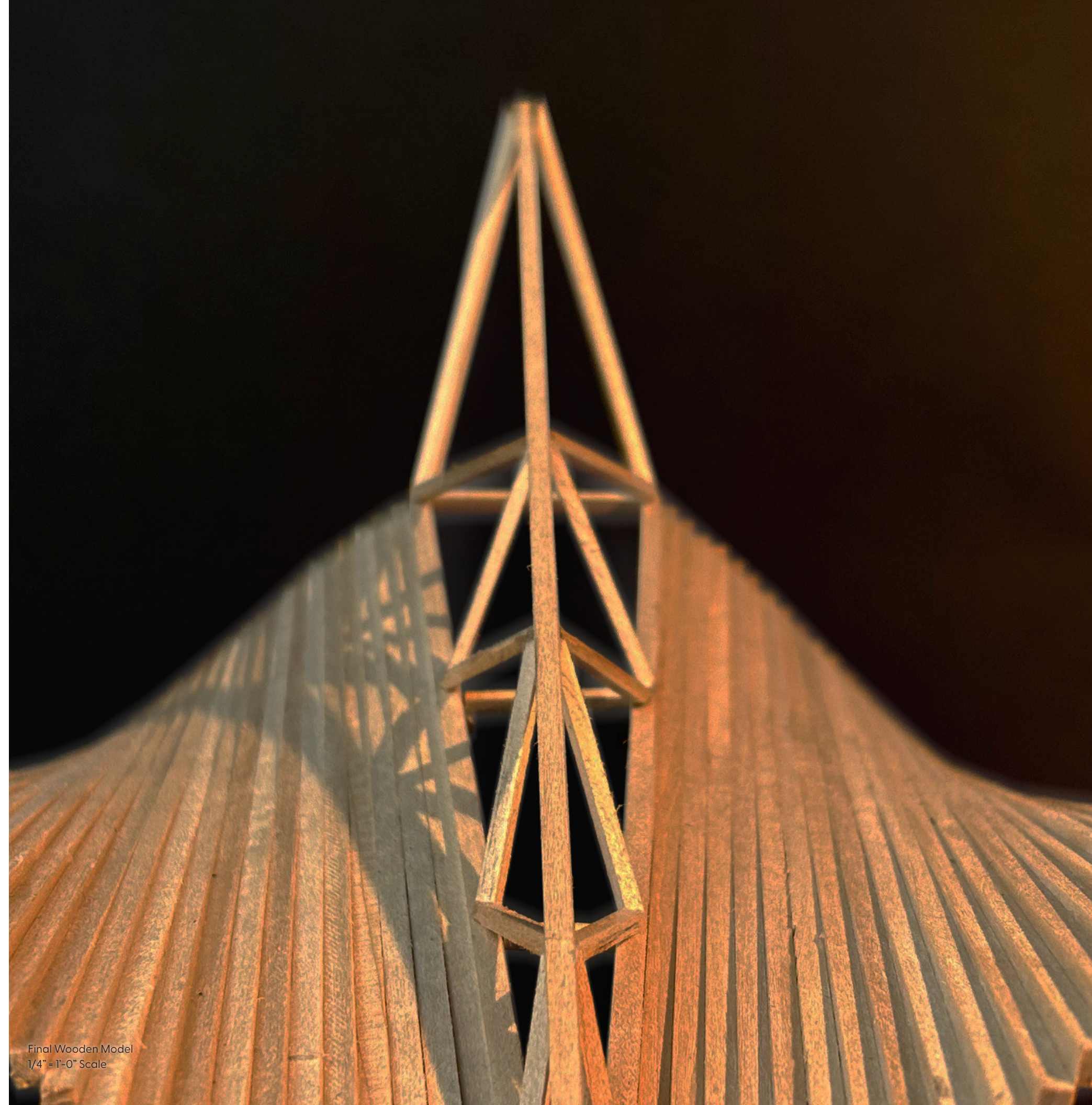
Professor Kent Spreckelmeyer  
Pioneer Cemetary, Lawrence, Kansas  
1,000 sq. ft.  
1/4" = 1'-0" scale

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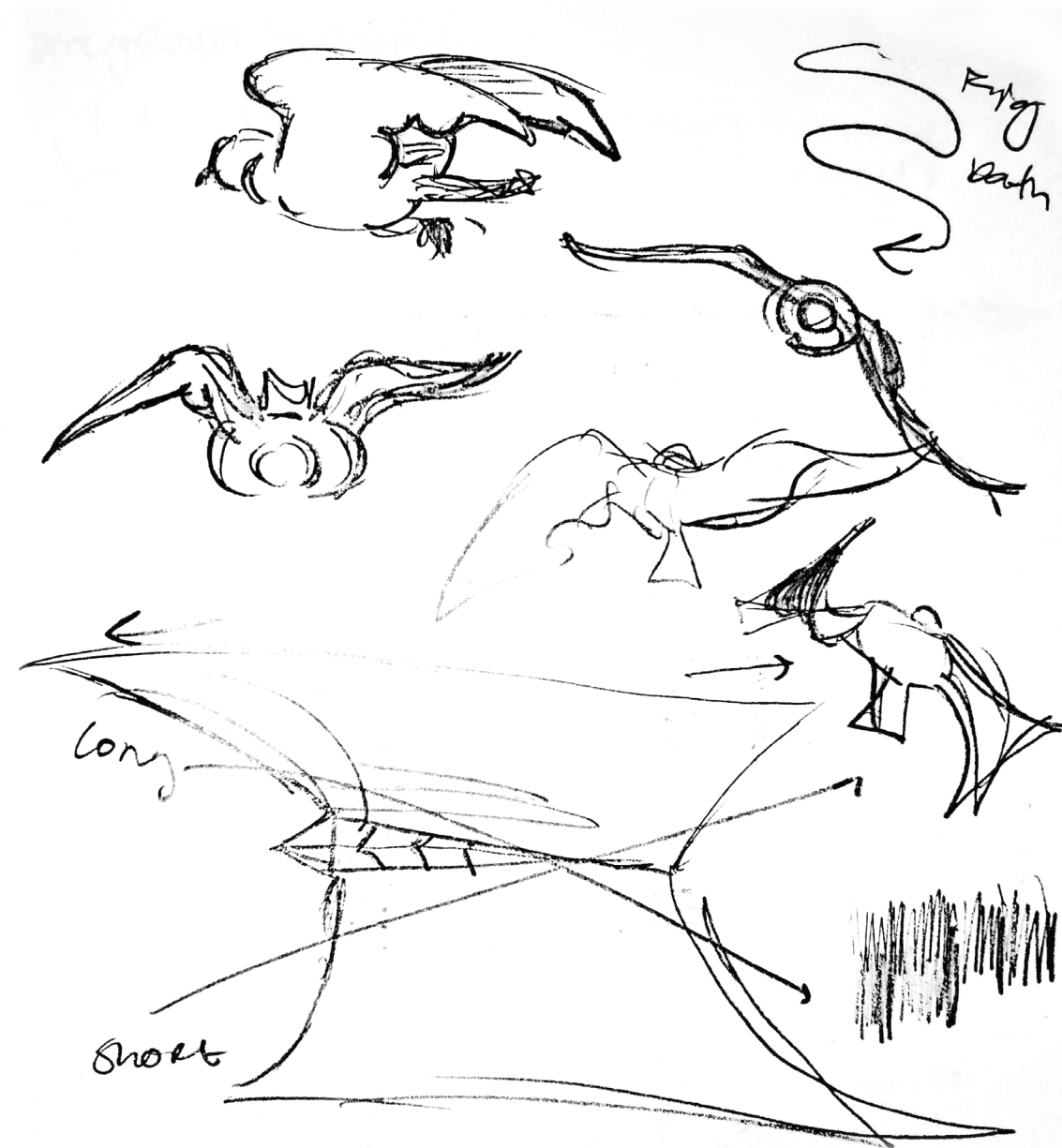
## **Non-denominational Wooden Chapel designed for the expanding West Campus of the University of Kansas.**

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This project aims to provide a space for gathering on the developing West Campus of KU. Situated in Pioneer's Cemetary, the chapel is designed to serve a variety of communities and practices, offering a flexible pavilion-like space for all. Sited next to the major road, Iowa Street, this space also becomes a landmark on West Campus.



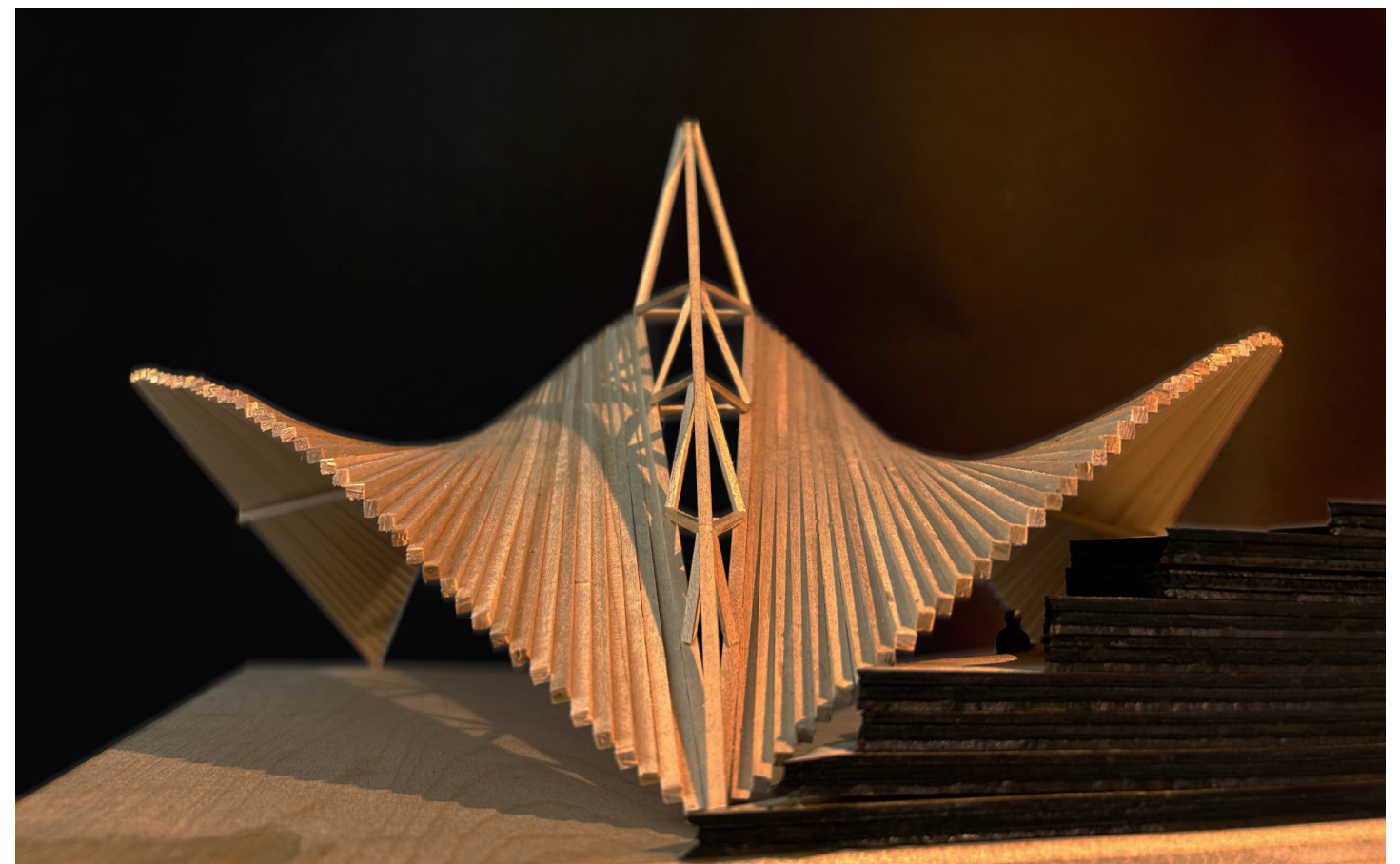
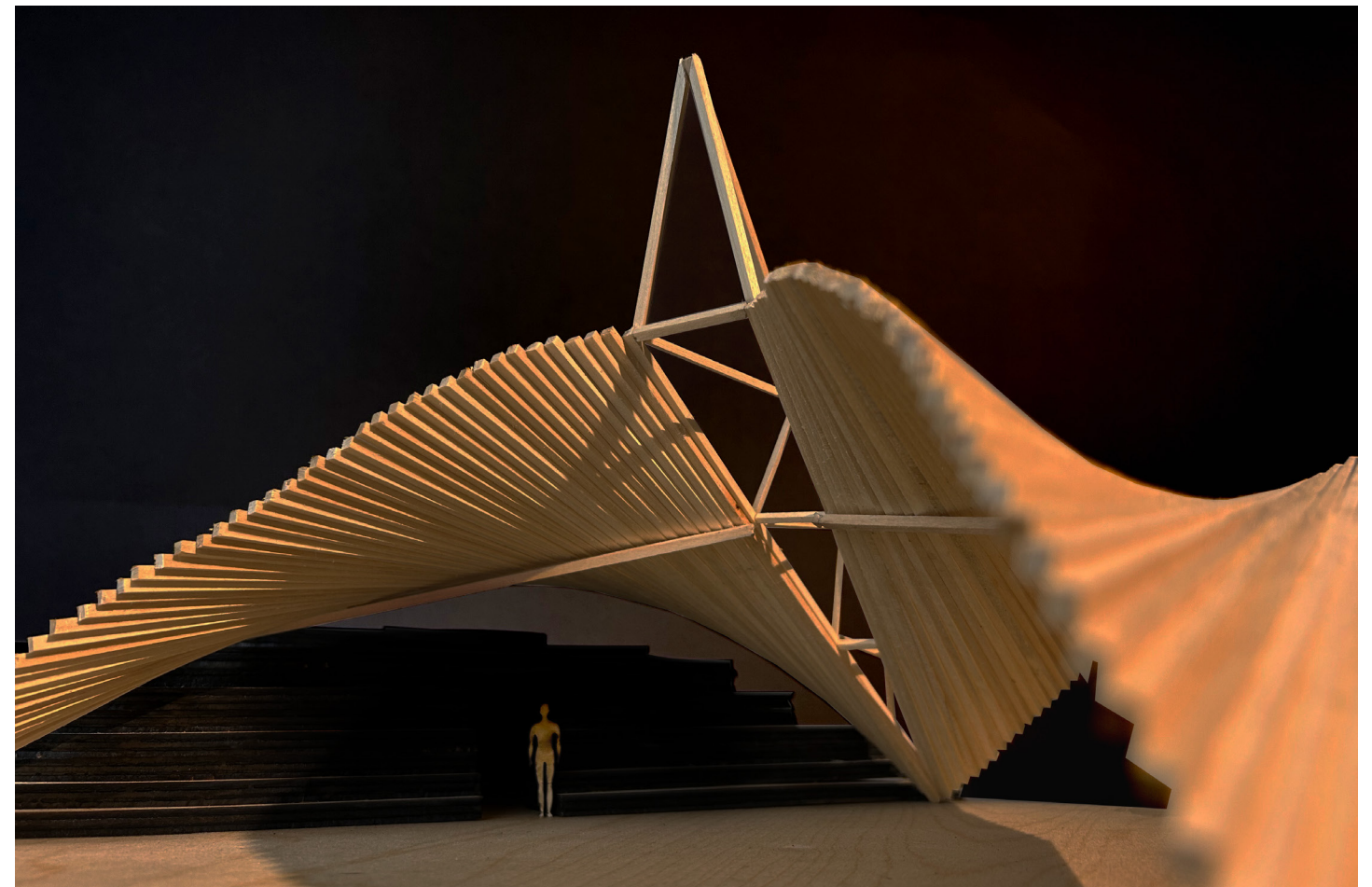
Final Wooden Model  
1/4" = 1'-0" Scale



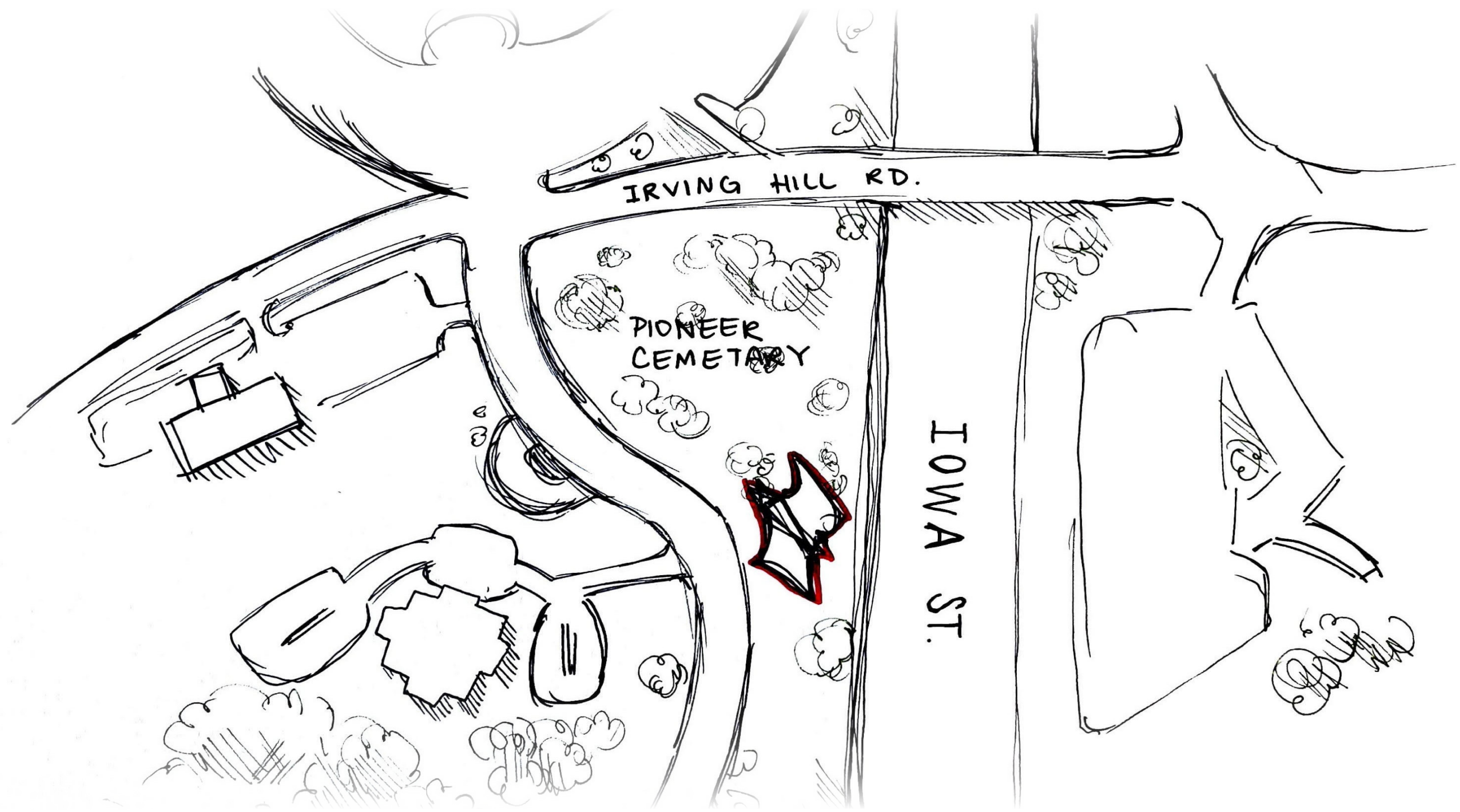
### Symbolism & Nature

When designing the chapel, I wanted to play on a theme common to many religions: the sky. The sky is seen as a symbol of divinity in many religions, as it represents the realm of a higher being. I wanted to imitate the form of a bird for the body of the chapel, as it is something mortal that touches the sky. Representing nature and the juxtaposition between the sky and the Earth, the design for the chapel is both light and anchored.

With an interest in creating a parametric design, wooden pieces are aligned, then twisted to create the wing shape forms. These "wings" are anchored to the ground at small points, and the Earth to the Southeast of the chapel that also houses the gowning area and restrooms. This leaves the rest of the space to become an open floor plan that allows for all different uses.



Final Model at 1/4" = 1'0" Scale



### A New Space for KU's West Campus

The University of Kansas' West Campus is a continuously developing area, with many programmings growing and utilizing the space. One such space in KU's West Campus is Pioneer's Cemetary, with a lot of open extra space to be developed. This non-denominational chapel would create a new gathering space for all different kinds of events.

From different services to just a space to be between classes, this space serves and connects all around.

Observing the site, the chapel sits to the South of Pioneer Cemetary, occupying the plot of land right to the West of Iowa Street, a prominent road in Lawrence. The space is accessible from East Campus, as well as from KU's Lied Center and Endowment Center.

# PERSONAL WORKS

2022 - | Painting, Illustrations, and Graphics

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## Collection of personal works, ranging in medium.

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Creativity has always been apart of me, and as I have gotten older I have had the chance to express myself through a variety of mediums. From illustration to graphic design, this section of my portfolio aims to show a different side of my creativity, and how it influences my architectural work.



"I Would Change, But I Can't"  
Self-Portrait, 2023  
Acrylic on Canvas

## Materiality & Environment



Both paintings originate from the same want to better understand how the environment can impact the way materiality is perceived.

The top right painting (Still Life 2023, Acrylic on Canvas) takes a light-hearted approach to this concept. Unfinished in nature, but finished in terms of observing how the light of my desk makes the bear and mug appear. I wanted to pay special mind to how the bear's yarn is shown in light differently than the glazing of the ceramic mug, and how the same light makes both materials appear differently.



The bottom right painting (Somewhere, Now 2022, Acrylic on Canvas) explores the same way light - and also water - impacts materiality. A plastic bag floats in the middle of an ocean, the painting explores the issue that 'Somewhere, Now' the ocean is constantly facing pollution. I learned a lot about lighting and texture in both of these pieces.



### my POV

Whenever I don't know what to sketch at the moment, I always start with an exercise of drawing whatever is in front of me first. I start from the tip of my pencil, and draw my field of vision until I run out of room on the paper. This exercise has helped me understand depth, scale, and the way I see the world better.



aias event poster

football game schedule (pg. 37)



aias event poster

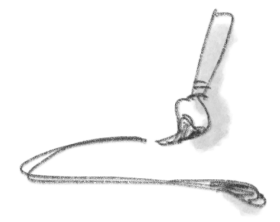
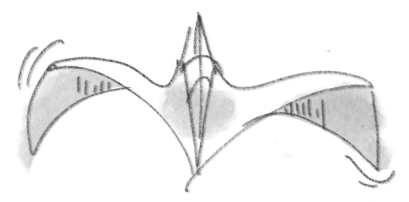
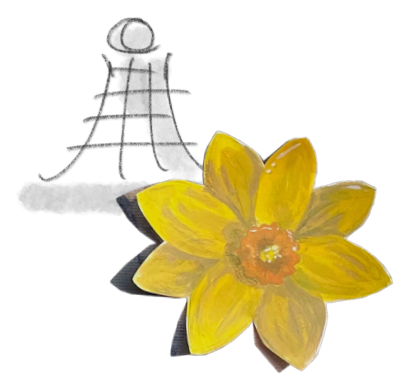
I have been an active member of KU's AIAS Chapter for the entirety of my undergraduate career, serving as the Public Relations Officer in my second year of school. In this position, I ran and created graphics for the instagram account during the 2024-2025 school year. Promoting events and general body meetings, I have expanded my abilities in the Adobe Creative Suite, which has been extremely beneficial to my studio and other classwork.

Outside of school, I have continued to grow my graphic skills by creating graphics for my younger brother's football team. Creating game announcements, schedules, and personal posts to promote events. This has been another opportunity to expand my work outside of the school year.



home away

panthers fall 2025



Thank you :)

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