

2021 SGH Concepts / Dri-Design Scholarship



SGH
concepts



dri-
design
WALL PANEL SYSTEM



Spring 2021

Arch 411 Architectural Design Studio: Integrate
University of Nebraska-Lincoln
College of Architecture



The mission for the Architecture program is to provide the educational foundation for articulate, intellectually aware, self-realizing architecture professionals capable of performing effectively in evolving design disciplines.

2021 SGH Concepts / Dri-Design Scholarship

1

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College of Architecture

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College of Architecture
232 Architecture Hall
Lincoln, NE 68588-0107
(402) 472-7943

architecture.unl.edu

Spring 2021**Arch 411 Architectural Design Studio: Integrate.**

Continuation of complex problems as it relates to the integration and consideration of environmental stewardship. Emphasizing technological considerations as formal and organizational influences including technical documentation, accessibility, site design, life safety, environmental systems, structural systems, and building envelope systems and assemblies.

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4 Sponsors

6 Jury:

Anne Marie Duvall Decker, Blair Satterfield, and Elizabeth Whittaker

10 Award of Excellence:

Morgan Davis and Logan Dolezal

18 Award of Honor:

Cole O'Connor and Sahr Qureishi

26 Award of Merit:

Sebastian Toalson and Ethan Weiche

34 Award of Merit:

Bailey Gocke, Dhanush Reddy, and Samantha Zeek

Spring 2021 - Architecture Design Studio Faculty

Craig Babe, AIA, NCARB, Associate Professor of Practice
- Architecture, University of Nebraska

David Newton, Assistant Professor - Architecture,
University of Nebraska

Ashley Byars, AIA TACK Architects.
Lecturer - Architecture

Ryan Hier, AIA TACK Architects. Lecturer - Architecture

Beau Johnson, Design Leader, Associate at DLR Group.
Lecturer - Architecture

The College of Architecture at the University of Nebraska-Lincoln, in partnership with SGH Concepts (A Division of SGH Redglaze Holdings Inc.) and Dri-Design, has established a student scholarship competition for the fourth-year, undergraduate, architectural design studios. The scholarship recognizes student projects exemplifying outstanding design investigation, resolution, and significance. This opportunity brings together aspiring architects and industry leaders to advance disciplinary knowledge of design, materiality, and innovation.

Following the end-of-semester review, one project from each studio is selected to compete for the SGH Concepts (A Division of SGH Redglaze Holdings Inc.)/Dri-Design Scholarship. These projects are presented to an external jury who are all established practitioners in their fields. A finalist is chosen for producing and communicating a comprehensive architectural project that is a result of design decisions at different scales. To be successful, students demonstrate a high degree of professional dedication, rigor, open-mindedness, and resourcefulness. Projects are rigorously developed and clearly communicate the breadth and depth of investigation.

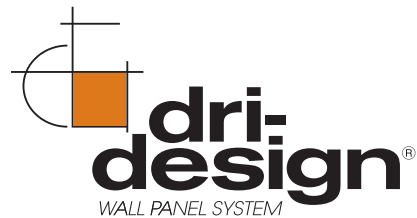
We thank our sponsors SGH Concepts (A Division of SGH Concepts Redglaze Holdings Inc.), a leading distributor and installer of customized building products, and Dri-Design, a producer of advanced and sophisticated metal wall panel systems.

**SGH CONCEPTS**

At the center of our craft is our passion for premium, innovative design. With over 70 years experience in designing and engineering building product solutions for some of the most challenging architectural feats in the market, our focus each day is to find the best way to give form to our clients' vision.

Our team approaches every project with a reverence for making innovative design possible. We are passionate about solving challenges that—in the end—make buildings more beautiful. At SGH Concepts, it is our mission to provide smarter solutions to design opportunities and challenges, from concept to completion. So, whether you are an architect, a general contractor, or an owner, we provide a level of professionalism you demand and a sense of individuality you expect.

We would like to thank Troy Burkey of SGH Concepts for helping establish this program and his continued support of the college and students.



DRI-DESIGN

Founded in Holland, Michigan in 1995, under the leadership of President Brad Zeeff, Dri-Design has turned the Metal Panel Industry on its ear. With Dri-Design, Zeeff set out to solve what he viewed as the significant shortfalls of traditional metal panel systems: delamination, staining due to the effects of weather on joints and gaskets, a lack of color and texture options, the rising cost of production and inefficient installation practices.

The result of Dri-Design's meticulous engineering, is a 100% recyclable, pressure equalized rain-screen, architectural metal wall panel system that attaches to nearly any substrate without the use of clips or extrusions. The pressure equalized rain-screen design can be installed simply over commercial grade Tyvek onto plywood, or as the most sophisticated outboard insulation pressure equalized rain-screen you can design.

We would like to thank Jason Zeeff of Dri-Design for his continued support of the college and students.

**ANNE MARIE DUVALL DECKER**

Duvall Decker Architects, P.A.

Anne Marie Duvall Decker, FAIA, is a principal of Duvall Decker, an expanded design practice in Jackson, Mississippi, whose work includes architectural design, community planning, real estate development and facility maintenance. Duvall Decker is recognized for its design excellence and innovative approach to inner city planning and development.



BLAIR SATTERFIELD

University of British Columbia, HouMinn Practice, HiLo Lab

Blair Satterfield chairs the architecture program at UBC in Vancouver, Canada. He is co-founding principal with Marc Swackhamer of HouMinn Practice, and founding director of HiLo Lab. His work has received multiple Architect Magazine R+D Awards, ID Magazine and Core77 National Design Awards, and multiple AIA and SARA awards for architecture.



ELIZABETH WHITTAKER

AIA, MERGE Architects, Inc.

Elizabeth Whittaker is the founder and principal of MERGE Architects. She has lectured extensively in the US and abroad, and the work of MERGE has been widely published both nationally and internationally including Architectural Record's 2014 Design Vanguard, as well as Architectural Record's 2017 "Next Generation Leader" for the US.





Excellence

Maker + Market

Morgan Davis and Logan Dolezal

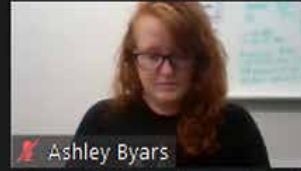
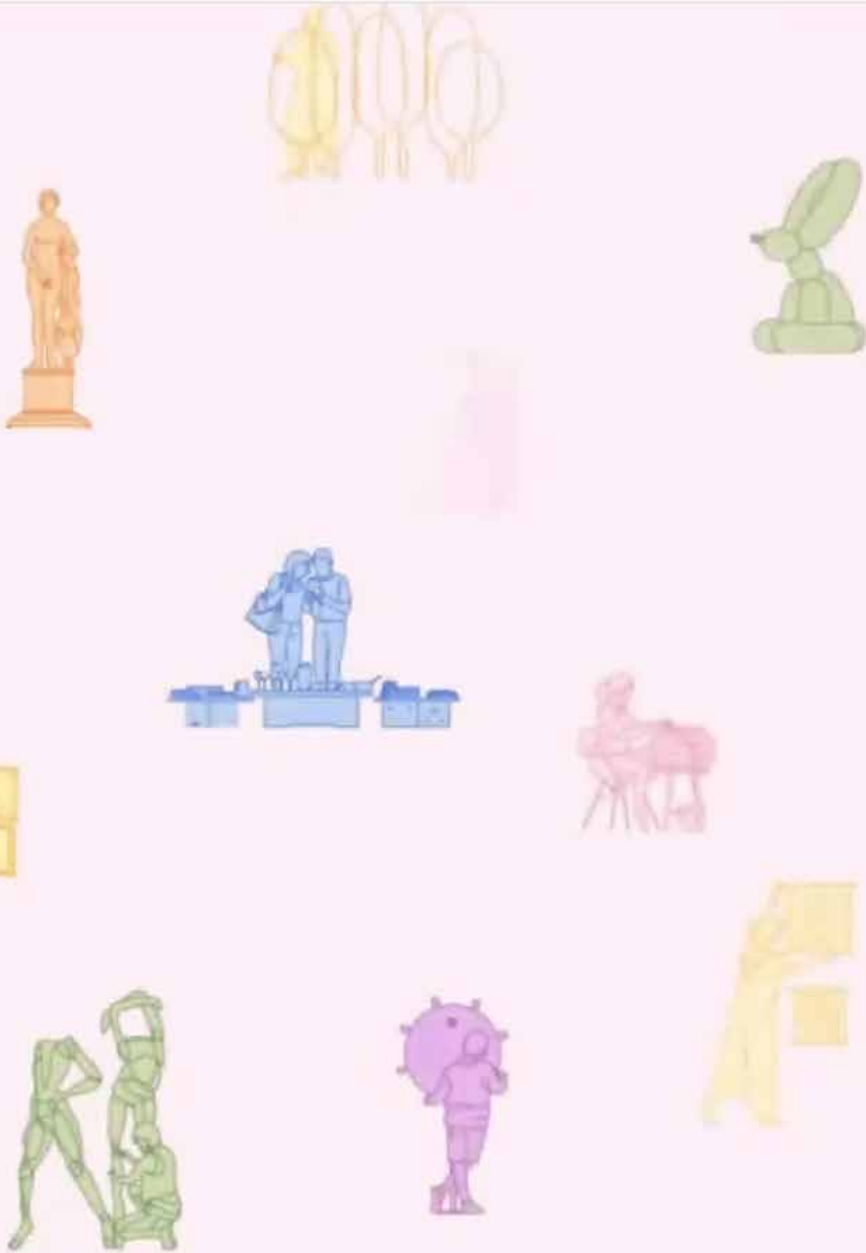
Faculty Mentor: Ashley Byars and Ryan Hier

The intention of Maker + Market is to design a market hall in Benson, Omaha, Nebraska that facilitates the needs of makers, artisans, and vendors. This market hall aims to curate a creative and dynamic environment through the use of framework, materiality, and the exploration of authorship.

The building utilizes a grid of concrete, wood, and metal to define program and circulation throughout the building, providing a sense of organization within the dynamicism. Within the established grid, users of the building can alter their studio and market spaces using the infrastructure we put in place. The grid of the market hall is intended to act as the infrastructure for creative activities to occur, which will build a certain culture and atmosphere within the building.

Inside the market hall, all is on display. From the treatment of the facade, to the selection of interior materials, the building is intended to be viewed as a holistic performance. The intentional use of materiality and curation of views inside and outside of the building furthers this idea, creating unique perspectives of the activity within. Users of the building, from artists and makers to patrons seeking their goods see all aspects of the making and selling process. Inside and outside of the building, activities will be observed by users, crafting a dynamic experience centered around authorship.





Ashley Byars



Ryan Hier



David Newton



Anne Marie Decker



Blair Satterfield



Elizabeth Whittaker



Ethan Weiche



Logan Dolezal



Dhanush D C



David Karle



Beau Johnson



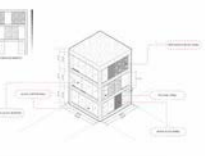
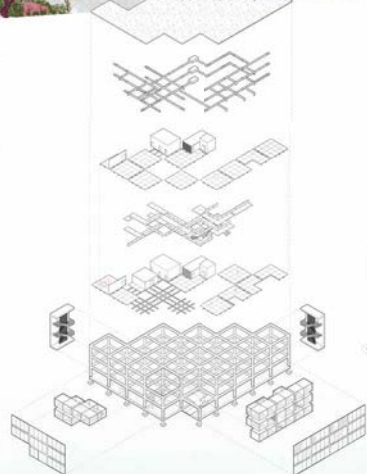
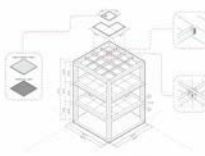
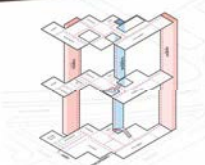
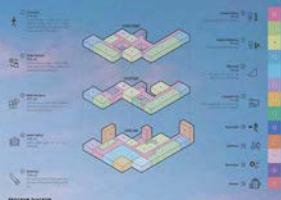
sebastian toals...

MAKER + MARKET

The essence of Maker + Market is to design a space that is flexible, adaptable, and resilient. The market hall aims to create a vibrant and dynamic environment through the use of high-quality materials, and the incorporation of sustainable design.

The building features a grid of columns, wood, and metal to define program and circulation throughout the building, providing a sense of continuity within the structure. Maker + Market is designed to be a place where people can gather, work, and play, and where the building is intended to be a place where people can work, play, and learn.

Maker + Market is designed to be a place where people can work, play, and learn. The building is intended to be a place where people can work, play, and learn. The building is intended to be a place where people can work, play, and learn.



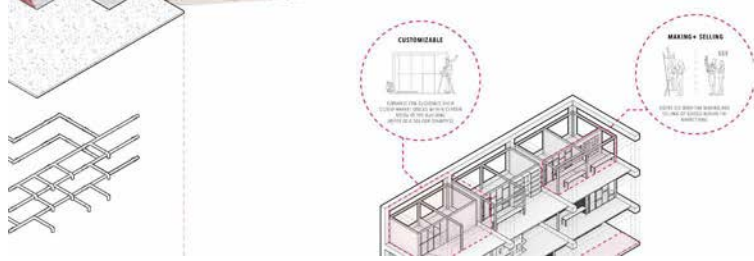
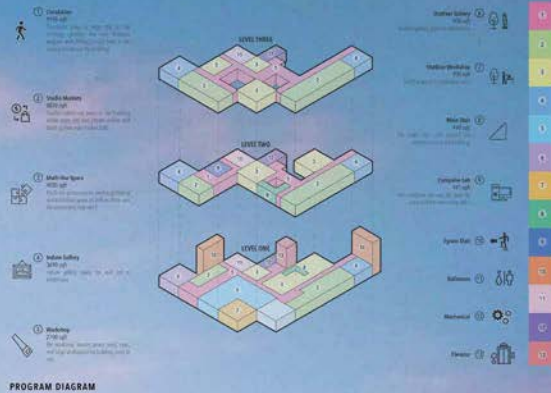
Jury comments: Maker + Market did a convincing job of connecting conceptual ambition to occupation and detail. The idea of a flexible armature for democratic community making is admirable.

M A R K E T

... that facilitates the needs of makers, artisans, and vendors. This market hall aims to ... of framework, materiality, and the exploration of authorship.

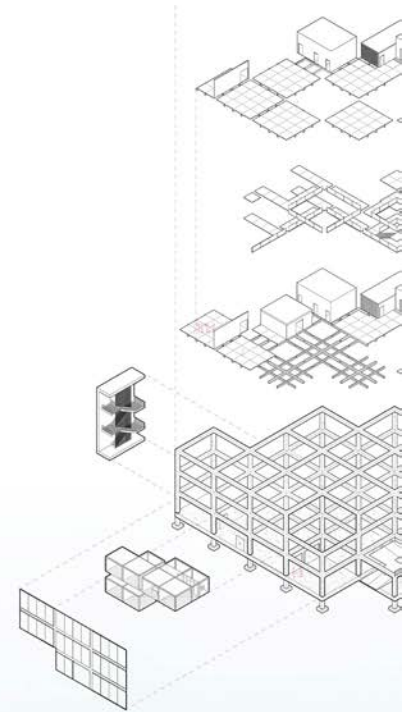
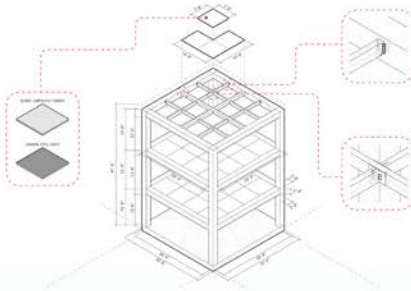
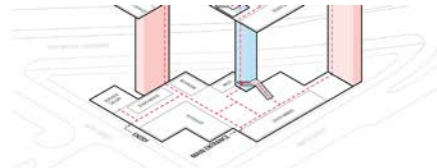
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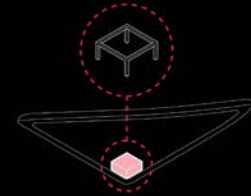
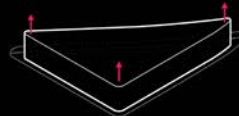


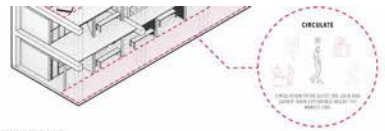
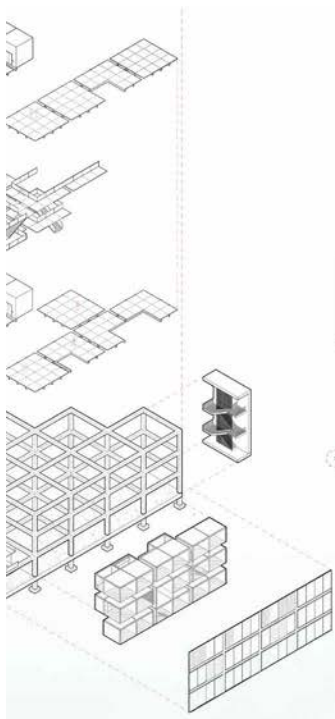
MARKET STUDIO
MARKET STUDIOS ARE FULLY CUSTOMIZABLE BY USERS



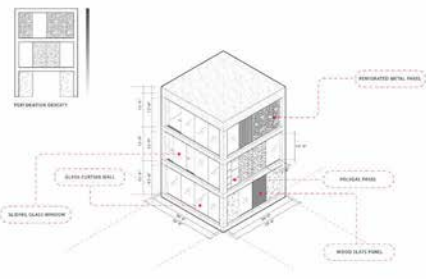


SECTION A
1/16" = 1'-0"

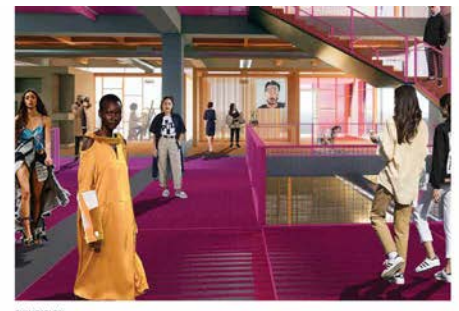




USER DIAGRAM
 THE DESIGN EXPERIENCE OF THE BUILDING CENTERS AROUND CUSTOMIZATION, MAKING AND SELLING PROCESSES, AND CIRCULATION.



FACADE DIAGRAM
 THE DESIGN OF OUR CLADDING CONDITIONS ARE CUSTOMIZABLE WITH TENETS BEING ALLOWED TO SELECT WHICH SCREENING OPTION THEY PREFER.



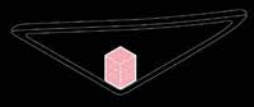
EXHIBITION
 SPACES CAN BE UTILIZED IN ANY WAY



INTERIOR OF MARKET STUDIO
 MARKET STUDIOS CAN BE RENTED OUT BY USERS



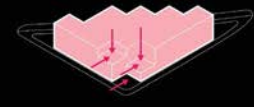
SECTION B
 1/16" = 1'-0"



STACK
 30' x 35' x 15' STRUCTURAL UNIT STACKED 3 TIMES FOR TOTAL 45'-0" BUILDING HEIGHT



MULTIPLY
 STACKED STRUCTURAL UNIT MULTIPLIED TO EXTENTS OF SITE



CARVE
 CARVE FRONT CORNER OF SITE TO CREATE ENTRY AREA

Honor

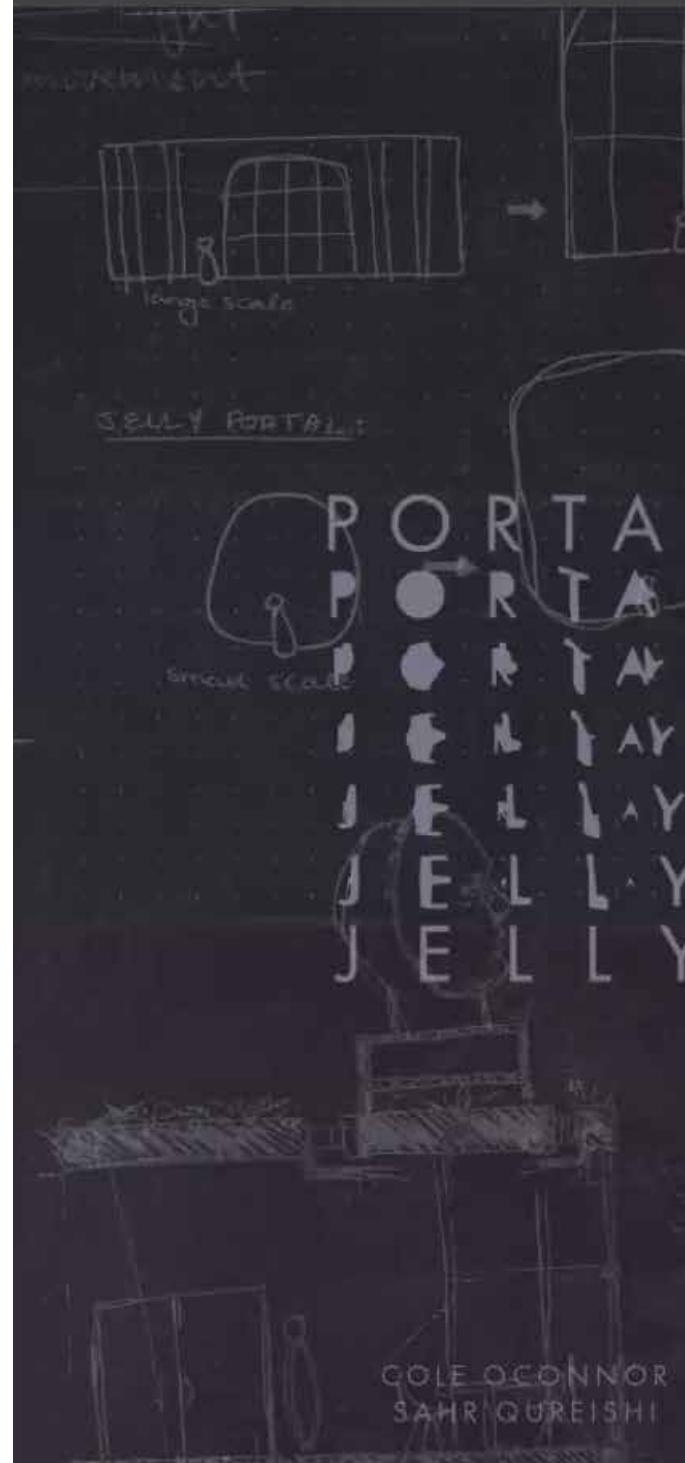
Portal Jelly

Cole O'Connor and Sahr Qureishi
Faculty Mentor: Beau Johnson

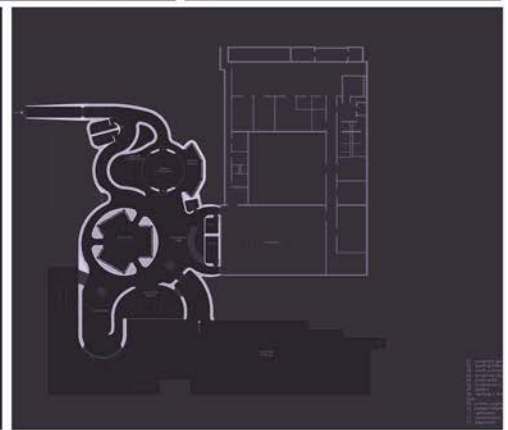
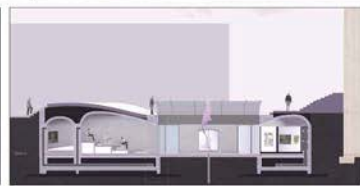
Portal Jelly has found that the language of the Sheldon allows for the user to understand the hierarchical formal qualities of space through the relationship between the body and its questions and the architecture and its answers. The formality of the Sheldon presents an architecture that answers to itself, but where does that leave the body?

Placed amidst a college campus, the Sheldon sits on a pedestal, visually attainable, but contextually disparate. In order to contextualize the Sheldon, its language is understood, assessed, and remixed to present a space that allows for the users to implement their autonomy. The logics of the Sheldon and its remix are intersected to understand the relationship each has with the architecture and the body. The formality of the Sheldon answers itself, leaving the body to wander and question. The body uses questions as a reference of tangibility and the architecture answers by presenting merit of experience. When they overlap, a resolution of thought emerges. The addition flips this logic, presenting space that asks questions that are answered through the existence of the body in the space. Arriving to the same overlap, a resolution of thought, but one that surrenders the autonomy to the user and their episodic discovery.

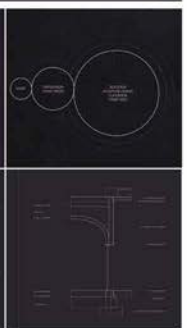
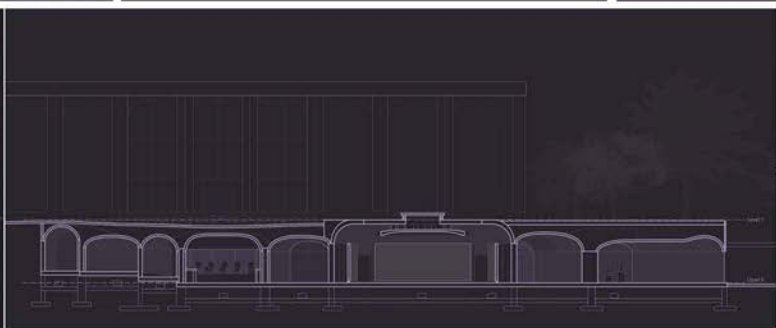
Portal Jelly is an invitation to probe past a superficial understanding and to excavate an individualized path. While it may not be known what spaces await past the portal, the choice of disposition sends an invitation for the body to explore and the mind to wander.



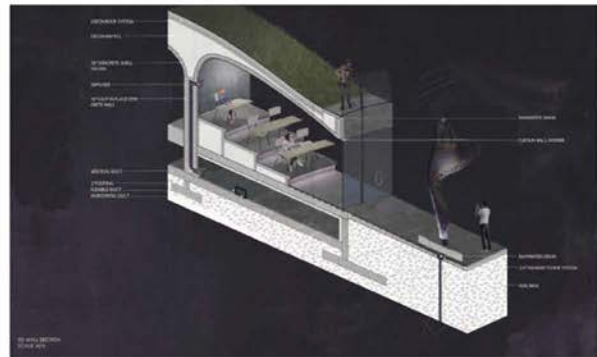
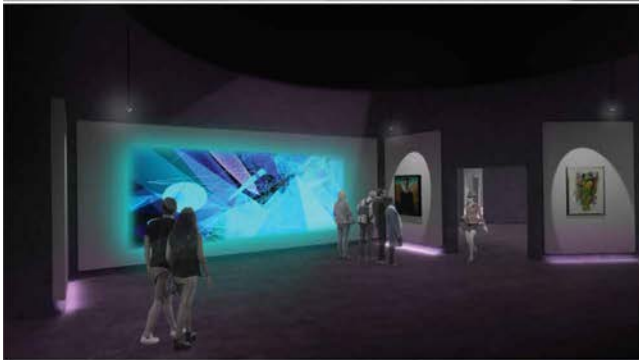


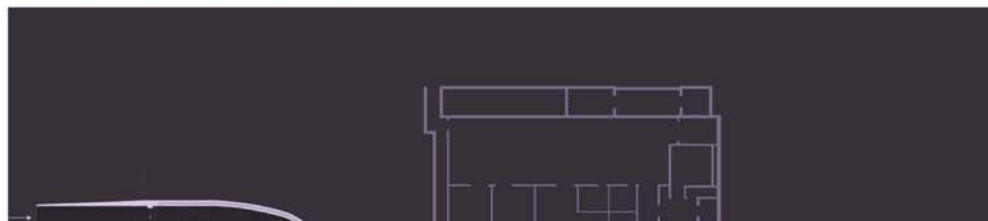


PORTAL JELLY
The Portal Jelly is a large, illuminated, abstract sculpture that is the centerpiece of the exhibition. It is a large, dark, curved structure that is illuminated from within, creating a glowing effect. The sculpture is made of a material that is both solid and translucent, allowing light to pass through it in a way that creates a sense of depth and movement. The sculpture is surrounded by a circular platform and is set within a large, dark, curved structure that is illuminated from within, creating a sense of depth and movement.



Jury comments: Portal Jelly was the most conceptually ambitious project. The jury was impressed by the team's interest in exploring amorphous form and the idea of continuous threshold.





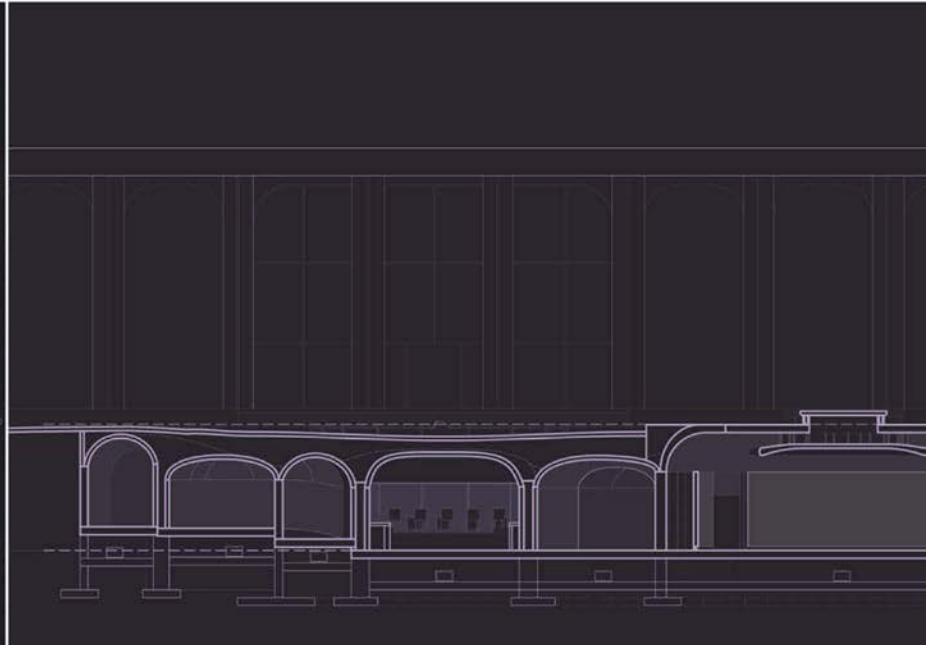
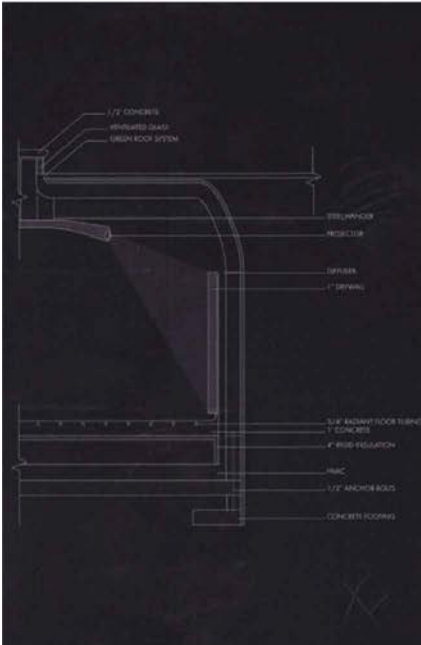
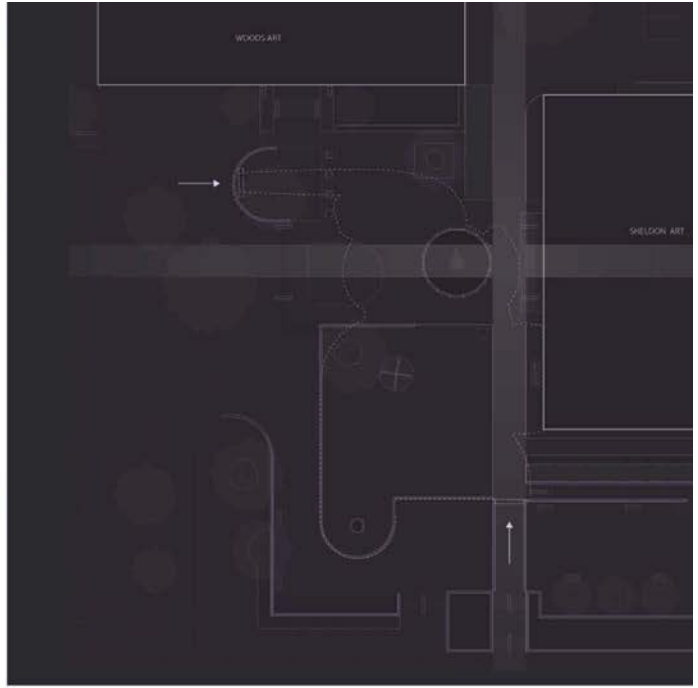


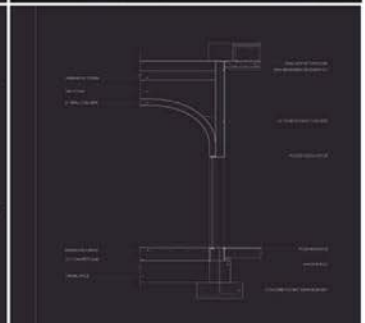
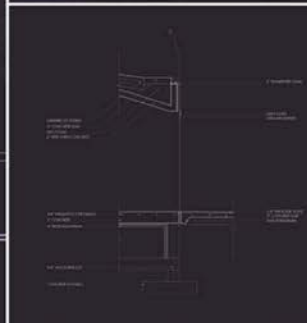
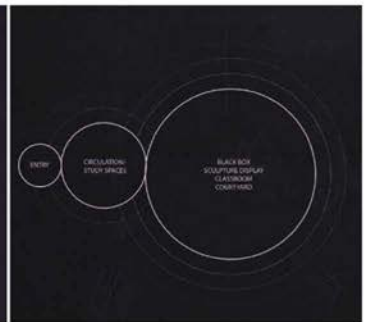
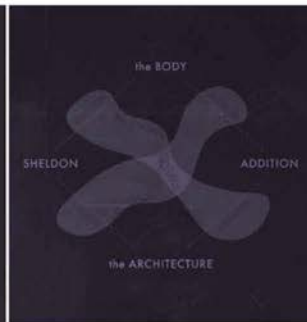
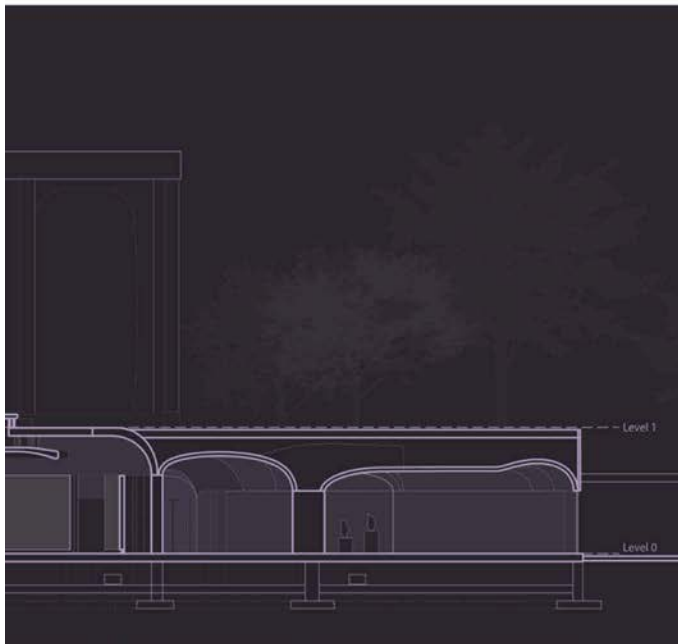
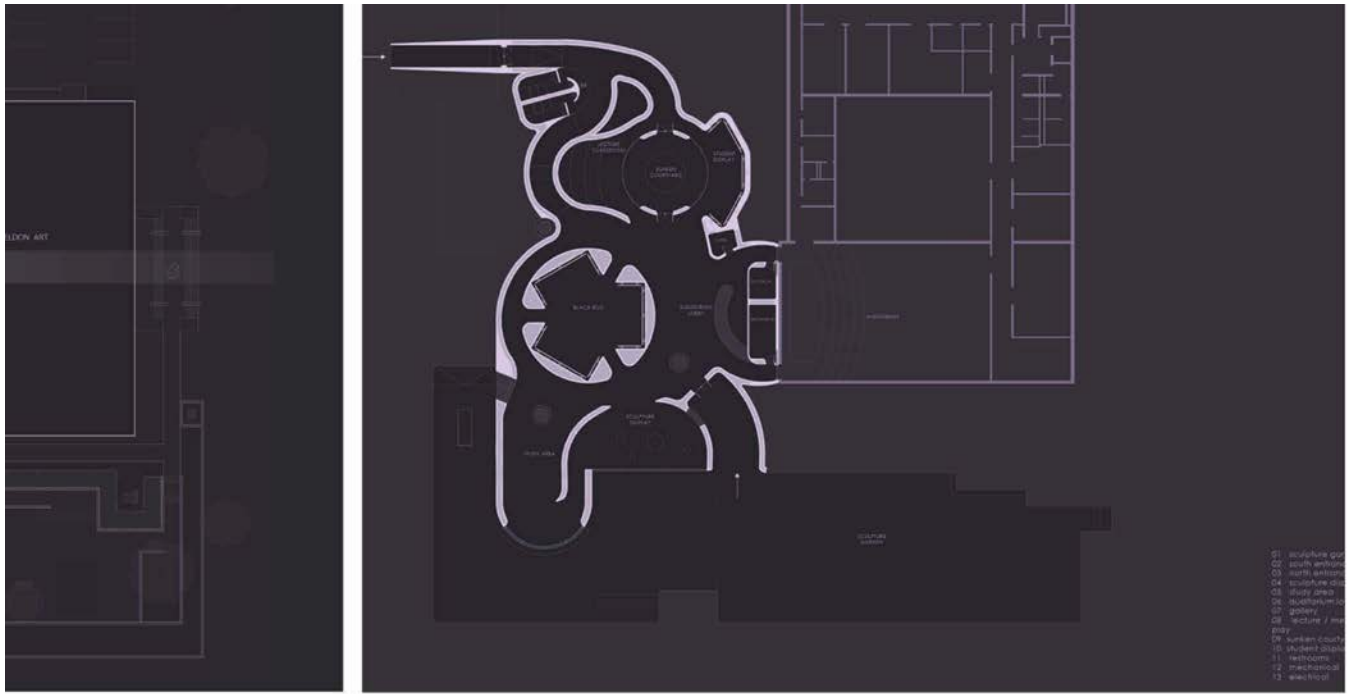
PORTAL JELLY

Portal Jelly has found that the language of the Sheldon allows for the user to understand the hierarchical formal qualities of space through the relationship between the body and its operations and the architecture and its elements. The formality of the Sheldon presents an architecture that invites to roam, but where does that leave the body? Placed within a college campus, the Sheldon sits on a pedestal, visually abstract, but continuously disparate. In order to contextualize the Sheldon, it's language is understood, assessed, and released to present a space that allows for the user to implement their autonomy.

The logic of the Sheldon and its users are intersected to understand the relationship each has with the architecture and the body. The formality of the Sheldon presents itself, leaving the body to wander and question. The body uses operations as a reference of formality and the architecture responds by presenting itself of experience. When they overlap, a resolution of thought emerges, but one that surrounds the operations to the user and their specific discovery.

Portal Jelly's intention to provide a user a superficial understanding and to encourage an individualized path. While it may not be known what spaces await past the portal, the choice of depiction sends an invitation for the body to explore and the need to wonder.





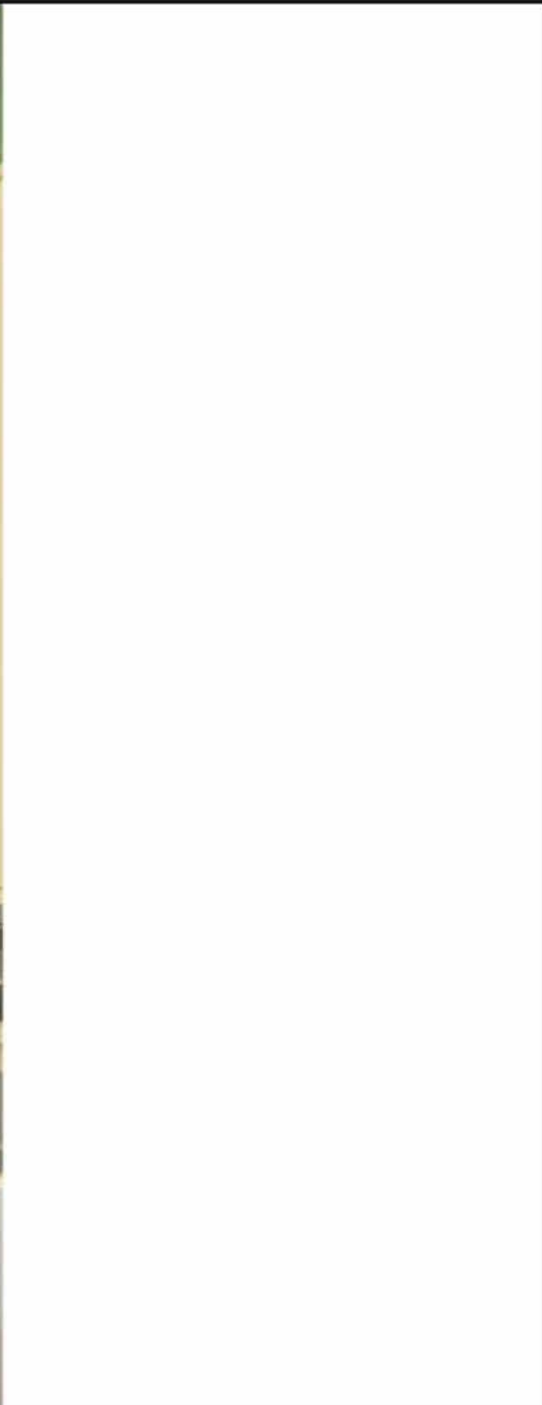
Merit

Canopy

Sebastian Toalson and Ethan Weiche
Faculty Mentor: Craig Babe

Canopy is a mixed-use project located in the historic Haymarket area of downtown Lincoln. The project is, first and foremost, a public space. This public space is on the northern half of the site, which remains largely untouched to best serve the people of Lincoln and their (potentially) idiosyncratic demands. Moreover, this prioritization of the public and its resulting spatial solution informed the southern half of the site as well; the 'market hall' is essentially a direct continuation of the same principles which dictated the public space and can be found on the ground floor of the enclosed southern portion, while gallery spaces, apartments, and rentable studios overlook the happenings to be found below. Finally, this ostensibly simple, yet thoughtfully arranged, project is also decidedly urbanist: because our exterior public space 'faces' the heavily trafficked downtown area and thereby encourages widespread use, Canopy engages with the city of Lincoln, its residents, and the dynamic, ever-changing relationship between the two.

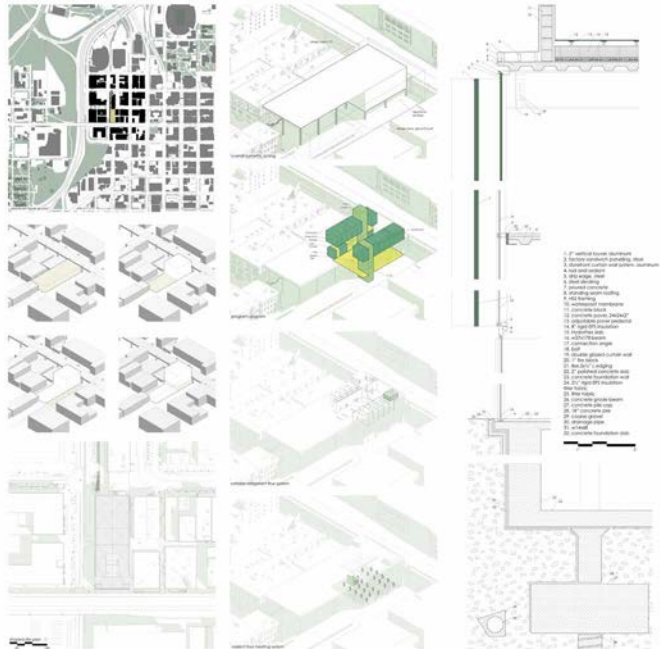






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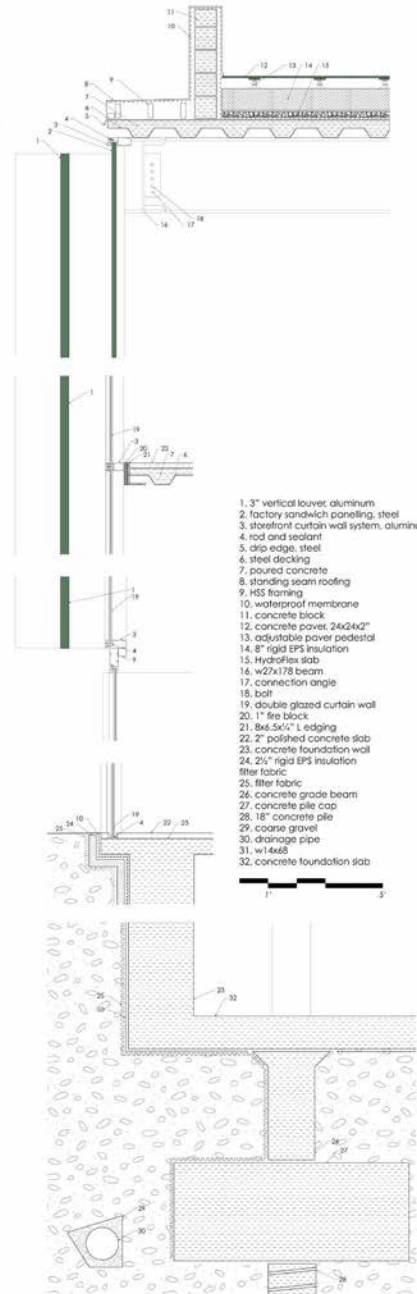
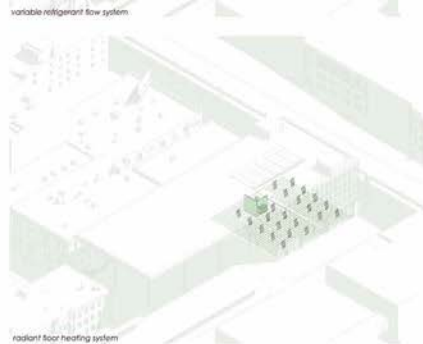
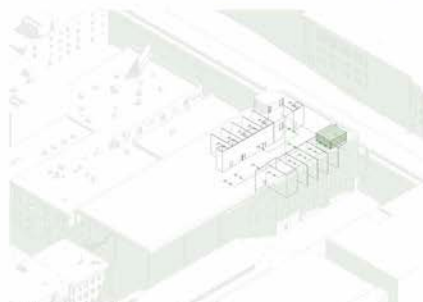
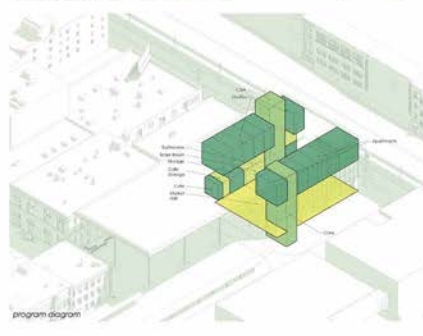
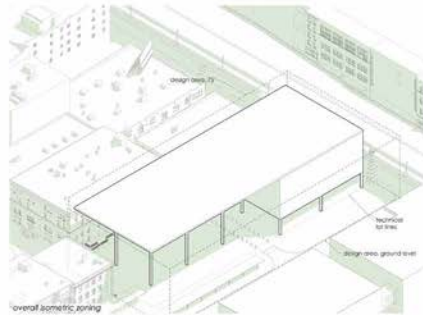
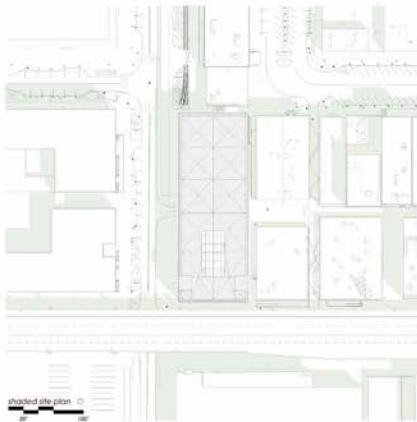
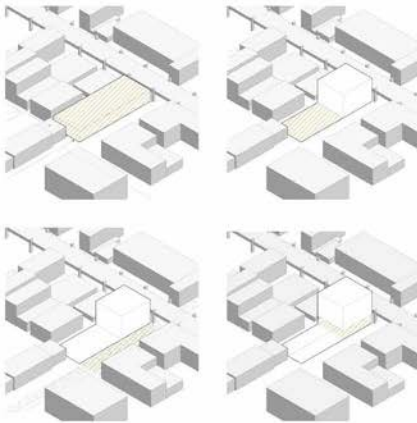
- 1. 2' vertical space structure
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- 29. 2' vertical space structure
- 30. 2' vertical space structure

Jury comments: Canopy presented a smart and generous site intervention. The team created an anchored public space for this urban edge condition.









Merit

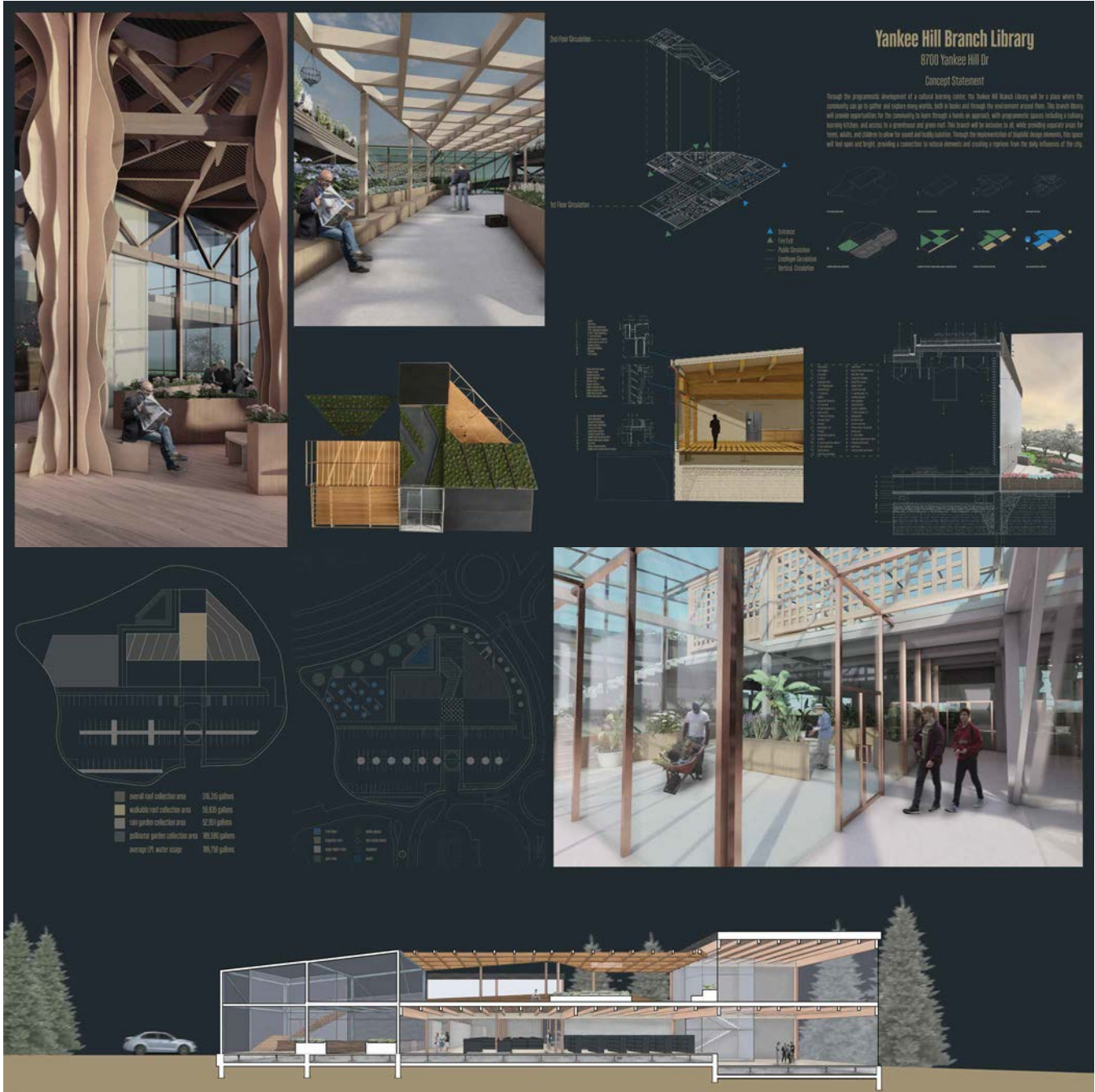
Yankee Hill Branch Library

Bailey Gocke, Dhanush Reddy, and Samantha Zeek
Faculty Mentor: David Newton

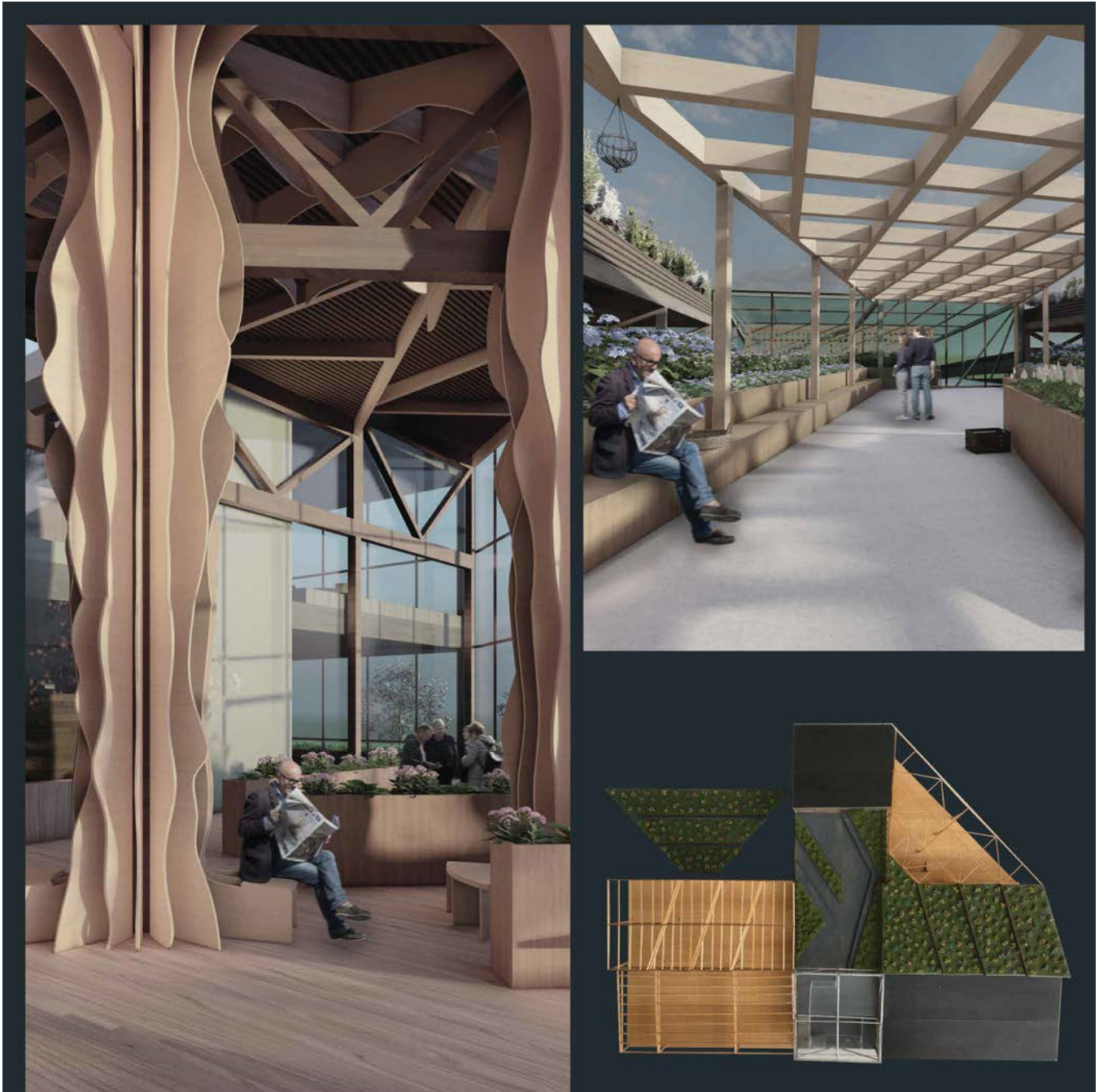
Through the programmatic development of a cultural learning center, the Yankee Hill Branch Library will be a place where the community can go to gather and explore many worlds, both in books and through the environment around them. This branch library will provide opportunities for the community to learn through a hands-on approach, with programmatic spaces including a culinary learning kitchen, and access to a greenhouse and green roof. This branch will be inclusive to all, while providing separate areas for teens, adults, and children to allow for sound and bodily isolation. Through the implementation of biophilic design elements, this space will feel open and bright, providing a connection to natural elements and creating a reprieve from the daily influences of the city.







Jury comments: The interplay between interior/exterior, library/biophilia, and detail/effect, was a provocative response to the 21st century library. Yankee Hill Branch Library was beautifully represented and enthusiastically developed.



Yankee Hill Branch Library

8700 Yankee Hill Dr

Concept Statement

Through the programmatic development of a cultural learning center, the Yankee Hill Branch Library will be a place where the community can go to gather and explore many worlds, both in books and through the environment around them. This branch library will provide opportunities for the community to learn through a hands on approach, with programmatic spaces including a culinary learning kitchen, and access to a greenhouse and green roof. This branch will be inclusive to all, while providing separate areas for teens, adults, and children to allow for sound and bodily isolation. Through the implementation of biophilic design elements, this space will feel open and bright, providing a connection to natural elements and creating a reprieve from the daily influences of the city.

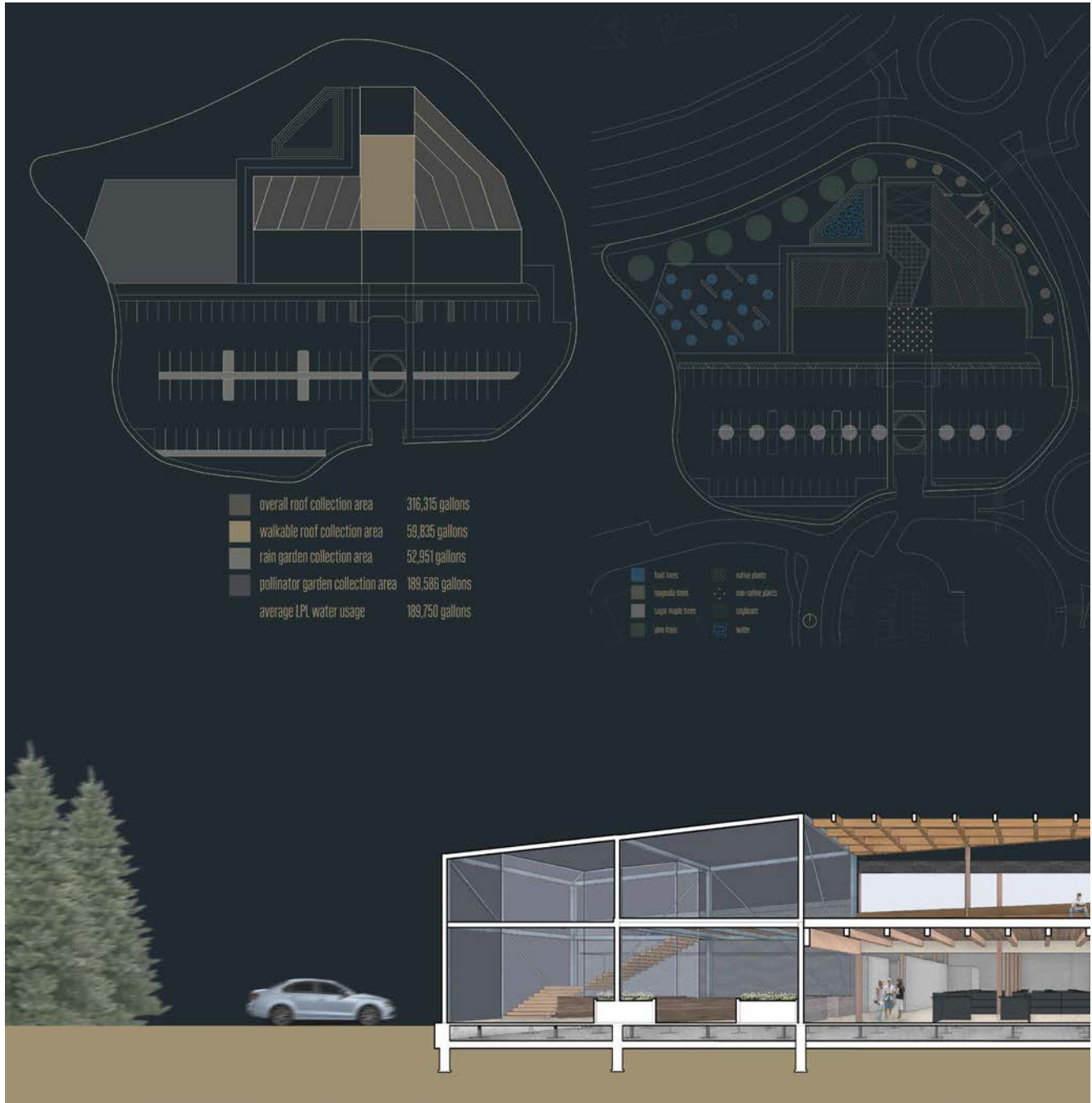
2nd Floor Circulation

1st Floor Circulation

- ▲ Entrance
- ▲ Fire Exit
- Public Circulation
- Employee Circulation
- Vertical Circulation

1st Floor

- 1.01 Main Entrance
- 1.02 Lobby
- 1.03 Reading Room
- 1.04 Children's Area
- 1.05 Teen Zone
- 1.06 Adult Zone
- 1.07 Community Room
- 1.08 Kitchen
- 1.09 Greenhouse
- 1.10 Green Roof
- 1.11 Restrooms
- 1.12 Storage
- 1.13 Office
- 1.14 Staff Room
- 1.15 Break Room
- 1.16 Conference Room
- 1.17 Meeting Room
- 1.18 Seminar Room
- 1.19 Classroom
- 1.20 Library
- 1.21 Bookshelves
- 1.22 Display Cases
- 1.23 Art Wall
- 1.24 Plant Wall
- 1.25 Biophilic Wall
- 1.26 Acoustic Panels
- 1.27 Lighting Fixtures
- 1.28 Furniture
- 1.29 Seating
- 1.30 Staircase
- 1.31 Elevator
- 1.32 Core
- 1.33 Mechanical Room
- 1.34 Electrical Room
- 1.35 IT Room
- 1.36 Storage Room
- 1.37 Utility Room
- 1.38 Janitor's Closet
- 1.39 Fire Exit
- 1.40 Fire Exit
- 1.41 Fire Exit
- 1.42 Fire Exit
- 1.43 Fire Exit
- 1.44 Fire Exit
- 1.45 Fire Exit
- 1.46 Fire Exit
- 1.47 Fire Exit
- 1.48 Fire Exit
- 1.49 Fire Exit
- 1.50 Fire Exit







Concept Series

Panel Lengths

- 5' to 30' standard
- Shorter/longer lengths available
- Zinc 20' horizontal, 10' vertical

Panel Depth

- 7/8"

Panel Width

- 12"

Viking Theatre,

*Troy Burkey from SGH Concepts presenting material and spatial properties.
(photo taken by Kerry McCullough-Vondrak)*



Grand View University / Des Moines, IA



*Jason Zeeff from Dri-Design presenting logics of systematic assembly.
(photo taken by Kerry McCullough-Vondrak)*



Craig Babe, AIA, NCARB, Associate Professor of Practice - Architecture, University of Nebraska

* Ethan Weiche and Sebastian Toalson | *Merit*

Jeremiah Brown	Christian Siagle
Will dostal	Sebastian Toalson
Andrew Eisert	Han Wang
Trey Erwin	Ethan Weiche
Caroline Goertz	Mitchell Znamenacek
Wyatt Gosnell	
Tanner Koepp	
Scott Lafferty	
Nicholas Olsen	
Dominic Paquet	

Ashley Byars, AIA TACK Architects. Lecturer - Architecture

Ryan Hier, AIA TACK Architects. Lecturer - Architecture

* Morgan Davis and Logan Dolezal | *Excellence*

Gabby Argamosa	Jesus Perez-Cortez
Mason Brown	Tiffany Schweer
Vy Cao	Geneva Sinkula
Morgan Davis	Kelsey Timmer
Logan Dolezal	Andrew Winter
Nick Gratton	Xipeng Wu
Byron Ho	Olena Yarmolyuk
Mckenna Krueger	
Brian Marousek	
Mitch Neujahr	

* **Studio Finalist**

David Newton, *Assistant Professor - Architecture,*
University of Nebraska

* Bailey Gocke, Samantha Zeek, and Dhanush Reddy | *Merit*

Ciara Allen	Jonathan Leones
Karolayn Greys Chavez Loor	Tanner Lloyd
Dhanush Deva Reddy	Jiaqi Luo
Chandra Reddy	Allie McAndrews
Olivia Epstein	Elizabeth McIntosh
Frannie Folsom	Angela Medina
Bailey Gocke	Austin Riggins
Tara Grebe	Samantha Zeek
Nash Kelly	
Emily Kleinschmit	

Beau Johnson, *Design Leader, Associate at DLR Group.*
Lecturer - Architecture

* Cole O'Connor and Sahr Qureishi | *Honor*

JoLynn Broweleit	Jose Tristan
Ella Knight	Jacob Urban
Tristin Korinek	Meagan Willoughby
Calee Martin	
Golsa Motevalli	
Cole O'Connor	
Amanda Petr	
Sahr Qureishi	
Nicholas Rosenthal	
Michaela Smith	

2021 SGH Concepts / Dri-Design Scholarship

Spring 2021

Arch 411 Architectural Design Studio: Integrate
University of Nebraska-Lincoln
College of Architecture