

2022 SGH Concepts / Dri-Design Scholarship



SGH
concepts



dri-
design
WALL PANEL SYSTEM




Spring 2022

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



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The Architecture Program provides the educational foundation for intellectually aware and self-realizing architecture professionals. We promote collaboration and engagement through excellence in design research and creative scholarship.



2022 SGH Concepts / Dri-Design Scholarship

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Spring 2022
Arch 411 Architectural Design Studio: Integrate
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College of Architecture

University of Nebraska-Lincoln

College of Architecture
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architecture.unl.edu

Spring 2022**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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Photographs.

All photos by Angel Coleman unless otherwise noted.

- 4 Sponsors**
- 6 Jury:**
Edwin Harris, Marci Uihlein, and Andrew Wells
- 18 Award of Excellence:**
Austin Wahl and Xander Parker
- 26 Award of Honor:**
Ethan Boerner and Mason Burress
- 34** Preston Doerrfeld and Blake Phillips
- 42** Tymaree Krusemark and Megan Kortenhof

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.

Spring 2022 - Architecture Design Studio Faculty

Ashley Byars, Vice President Architect & Design, Noddle Companies, Lecturer of Architecture

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

Ryan Hier, AIA, TACK Architecture, Lecturer of Architecture

Beau Johnson, DLR Group, Lecturer of Architecture

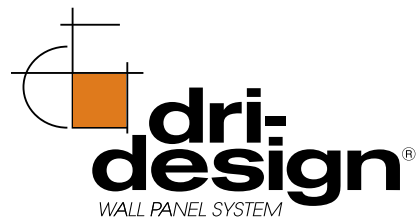
David Newton, Assistant Professor - Architecture

**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.

**EDWIN HARRIS**

EVOKE Studio

As Co-founder of EVOKE and Design Principal, Edwin Harris believes remarkable architecture enhances the lives of everyone. For over a decade, he has consistently generated designs that are decisive and rooted in clear objectives and novel concepts. Harris's design abilities have been recognized throughout his career, with over 35 design awards, including the National Center for Civil and Human Rights and Emancipation Park, Houston.



MARCI UIHLEIN

University of Illinois at Urbana-Champaign

Marci S. Uihlein, P.E., M. ASCE, Assoc. AIA, is an Associate Professor in the School of Architecture at the University of Illinois at Urbana-Champaign. Her research focuses on the structural engineering profession: its history, the professional relationship between architects and engineers, and creativity. She is the past-president of the Building Technology Educators' Society, Vice-President of the Construction History Society of America, and former executive editor for the Taylor & Francis journal *Technology | Architecture + Design*.



ANDREW WELLS

Dake Wells Architecture

Andrew Wells, FAIA is co-founder of Dake Wells Architecture, a design-centered practice in Springfield and Kansas City, Missouri. His work has been widely recognized with professional awards and publications. Wells believes that good design is achievable at all scales and for all people, and is essential to quality of life.





Atelier | Sheldon Museum of Art

05

04

03

DISCUSSION PANEL

Craig Babe and David Newton moderate an insightful panel discussion with jury members Edwin Harris, Marci Uihlein, and Andrew Wells. The discussion touched on a range of topics involving architectural practice, the expressive use of materials, and architectural education.





North Carolina Central University
2027 Collaborative Learning +
Research Center

PRE-DELIBERATION





DELIBERATION







Sharon Kuska, Interim Dean, makes opening remarks and reflects on the impacts of the scholarship over the last eight years.



Excellence

Community Crucible

Austin Wahl and Xander Parker

Faculty Mentor: Ashley Byars and Ryan Hier

Benson, a historic downtown district located within Omaha, is a community that has experienced growth, as well as decline. The effects of recent decline can still be seen in the community youth, with test scores near the bottom of the entire country, and a vast majority of students qualifying for free and reduced lunch. In the past decade, Benson has started to experience a rapid revitalization. In communities experiencing this intensity of revitalization, it becomes essential to allow the community to take part in the regrowth of its urban fabric. To provide a voice to the people, our project embraces the concept of Community Crucible. A place or situation in which concentrated forces interact to cause or influence change or development. To enact that change our proposal identifies three strategies to facilitate development; adapt, sustain, and engage. Adapt refers to the flexible and loosely fitted program that sits within the project that is ever changing with community needs. Sustain invokes support through the physical preservation of the environment, while encouraging growth of the community. Likewise, engage refers to the intimate interactions that happen within transactional spaces. The community crucible having these strategies existing together allows a community to both grow and take authorship to preserve its culture.





COMMUNITY CRUCIBLE

a place or situation in which concentrated forces interact to cause or influence change or development



ADAPT
The Program is flexible, open, and adaptable, with the ability to respond to changing needs and circumstances.



ENGAGE
The Model Team is a multi-disciplinary, multi-stakeholder team that works together to create a shared vision and plan for the future.

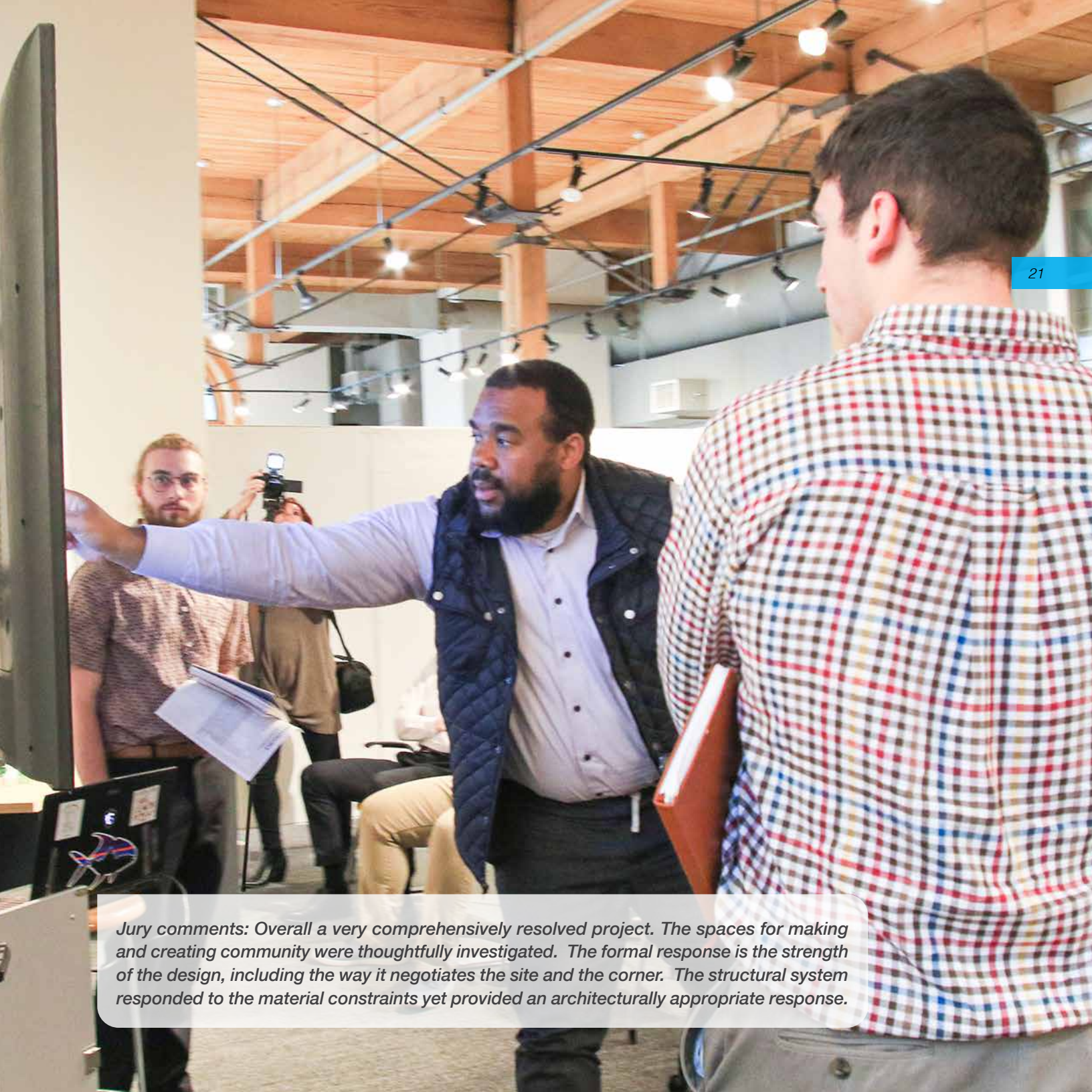


SUSTAIN
The Model Team is a multi-disciplinary, multi-stakeholder team that works together to create a shared vision and plan for the future.



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3

2
4



Jury comments: Overall a very comprehensively resolved project. The spaces for making and creating community were thoughtfully investigated. The formal response is the strength of the design, including the way it negotiates the site and the corner. The structural system responded to the material constraints yet provided an architecturally appropriate response.





ADAPT

The *Forum* is a flexible space where people can come together to influence change or development.



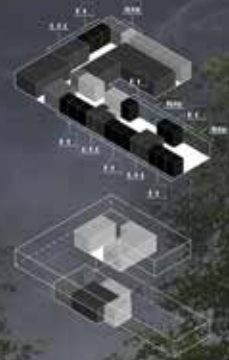
ENGAGE

The *Market Stall* is a place where community members and makers come to have an intimate interaction.



SUSTAIN

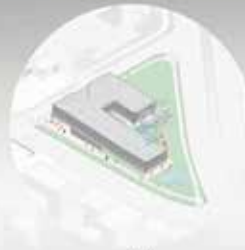
The *Incubator* space is a place where community members come to learn and grow as a body.



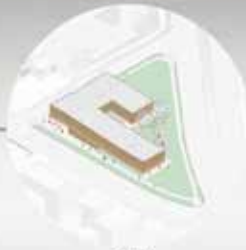
CLIMATE ANALYSIS



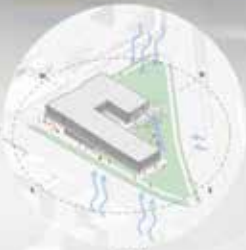
PLAN



RAIN



SOLAR



WIND





Honor

Atelier - Sheldon Museum of Art

Ethan Boerner and Mason Burress

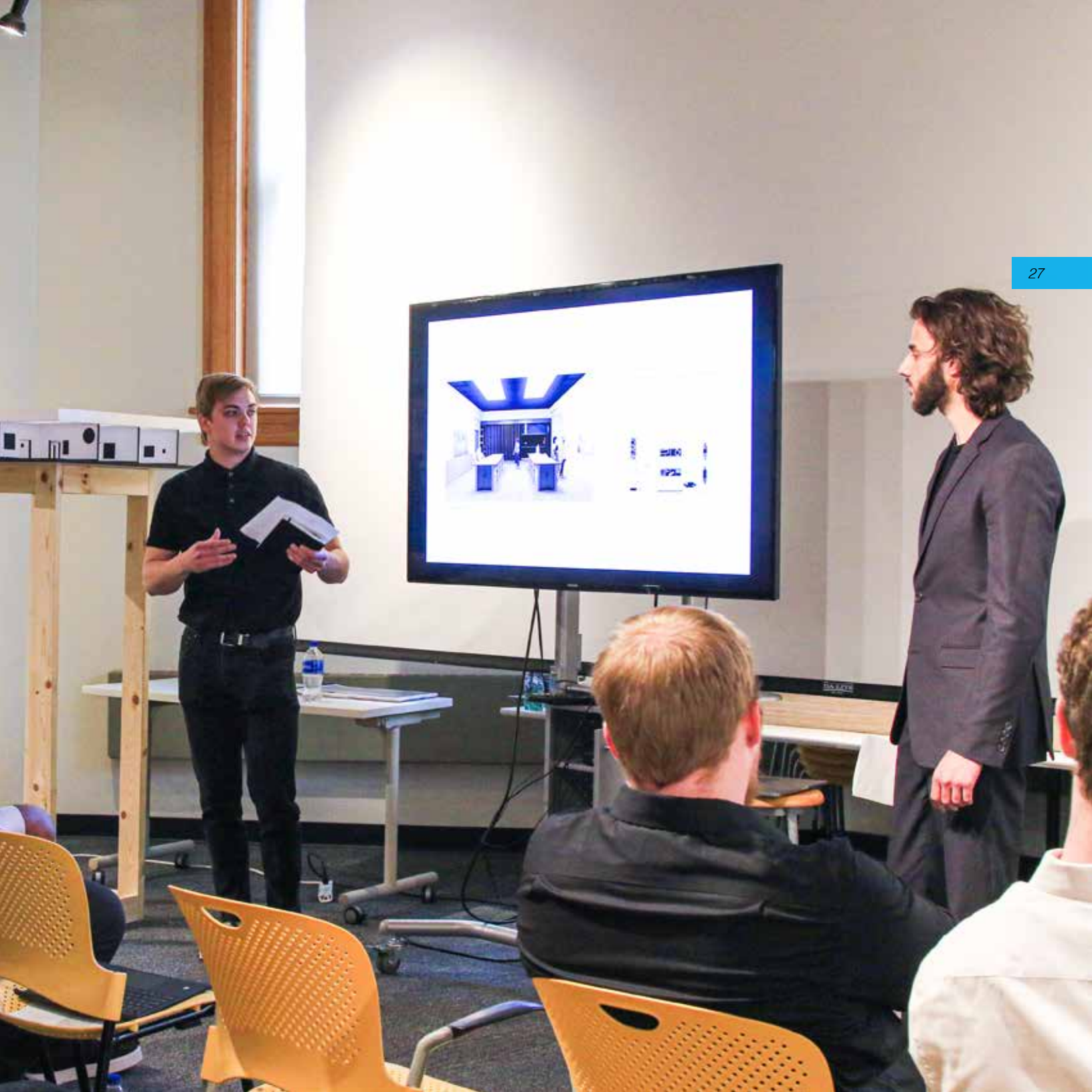
Faculty mentor: Beau Johnson

This project explores the use of frame and threshold as devices for increasing engagement with the Sheldon Museum of Art. Designed by Phillip Johnson and completed in 1963, the museum is a jewel box for art. It is located on the “arts campus” portion of the University of Nebraska-Lincoln city campus - adjacent to the arts, architecture, music, and theatre colleges. This project for an addition to the existing museum situates itself within this ecosystem of artistic learning.

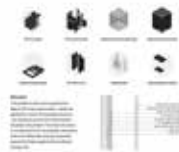
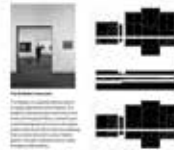
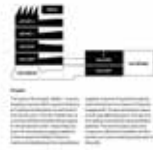
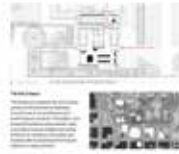
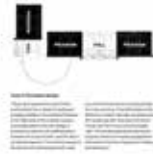
The term “Atelier” has no concrete definition besides a space for the creation of art, typically evoking images of the famous artist’s studio. The “atelier” and the gallery are often separated both by physical and conceptual distance. This project explores the potential of intertwining these otherwise mutually exclusive spaces. The openness of this term helped generate new ideas for what an addition to an art museum could be.

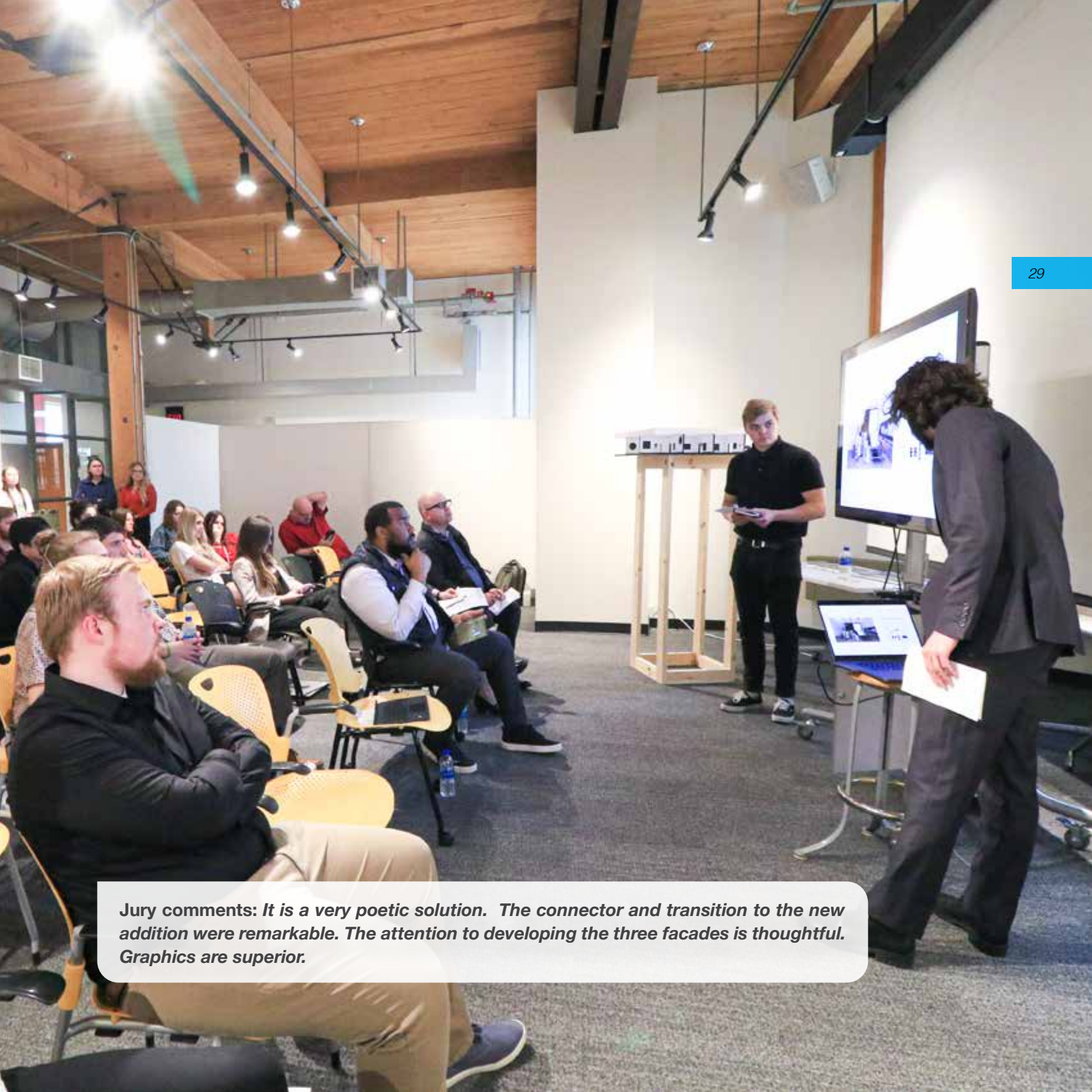
Working on a small footprint, the addition is a tower arising from the sunken garden that distances the museum from the street. Each level acts as an individual room with its own character and function: a public gallery that engages with the street, a gallery that connects directly to the Sheldon, an archive learning space, and two variations on art-making spaces on the upper levels. Publicly recognizable and accessible entrances are created by cutting through the landscaped plinth. The design imitates the steadfast presence of the Sheldon, the use of curated exterior and interior perspectives, and the interplay between structure and façade.





Atelier | Sheldon Museum of Art





Jury comments: *It is a very poetic solution. The connector and transition to the new addition were remarkable. The attention to developing the three facades is thoughtful. Graphics are superior.*

Atelier | Sheldon Museum of Art



Ties to The Barken Garden

This project explores the use of forms which would also means of creating an engaging addition to the Sheldon Museum of Art. Elements of the existing museum are not reconstructed in the new design, a prominent urban form, the differentiation between structures and space, and the use of a central perspective. The building's materials, structure and form are designed to be used as

well, which serves as the conceptual base for a new structure. One half of the building is raised vertically and placed on the 'barken garden' directly to the South. The ground floor is a public 'tray'. The remaining levels are designed to provide a means of increasing engagement with users in the form of spaces for making and viewing art.

East Elevation



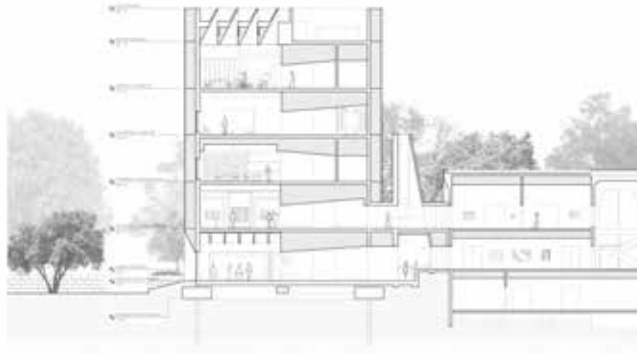
The Arts Campus

The Sheldon is situated in the arts campus portion of the University of Nebraska. Located in an urban, architectural, and performing arts district. The addition through the existing barken garden walls to provide a more accessible and exciting entrance for members of the public and students able to experience the museum, galleries, classrooms, and more.





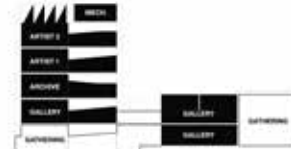
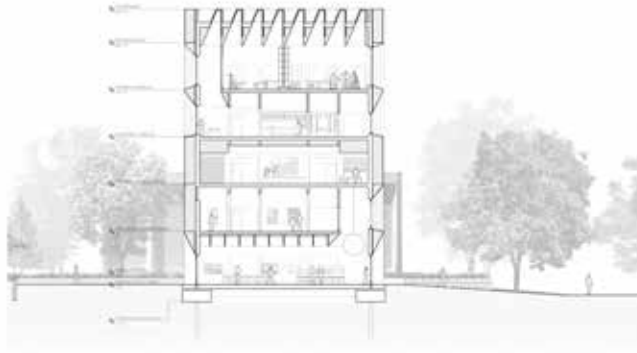
East Section



South Elevation



South Section



Program

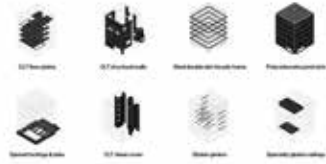
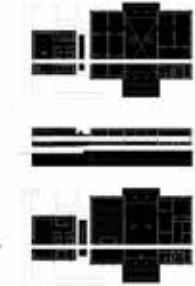
The focus of the project, "Stable", arose by engaging various artists to create a series of art-making and education spaces of varying scale and duration. The building has no concrete division lines between spaces for the production of art - providing a clear area for daylight and ongoing addition to the museum's collection. Plans for interior and exterior art are typically kept

separate, however, the project explores a form of lightness as a means of fostering engagement. The ground level serves as a multi-use gallery space. The second floor gallery overlooks the existing Stedelijk galleries. The entire space opens the museum's collection to students and all age floors as an ongoing introduction to the arts.



The External Connection

The Stedelijk is integrated along a series of spatial alignments and materials. The addition maintains these materials on two levels. On the ground floor connecting to a wing that again entry to a new space, while on the second floor there is a walkway that connects directly to a new facade gallery. This also maintains the view through the building.



Structure

The addition structure divides the idea of structure versus skin - creating a specific mass in the existing museum - by allowing a new environmental and modular component. The main structure is composed of EIT and glass members, used in a different plan of juxtapositions - a series that help regulate the building's energy use.





02

Gallery Extension

Fill the connection with an access unimpeded by the existing stair or gallery. This is a flexible space for use during and beyond the opening of the book, an alternative for museum visitors with their kids or families of friends. Large open-plan space offers the opportunity to exhibit art and other objects.



01

Entry & Multi-use Gallery

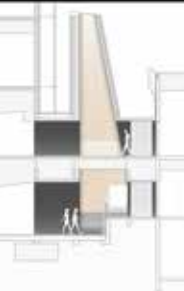
The ground floor of the addition offers a multipurpose space for books, a space suitable for parties, exhibitions, the display of student work and more. Large windows look out onto the campus and offer an opportunity for connection to the outdoors, supporting well-being. There is a direct connection to the reserved garden garden on the opposite side.



>>>

The Connector

The Connector is a wedge-shaped form that joins the existing structure with the addition. Changes in height, circulation and materials integrate it into the main space. The connector also acts as a buffer zone that provides a transition between the existing and the new structure, an element that is visible from the interior and exterior.



Market Station

Preston Doerrfeld and Blake Phillips
Faculty Mentor: Craig Babe

The Haymarket district in Lincoln, Nebraska, has been reinvented over the last 5-10 years from an industrial zone into Lincoln's primary hub of events and entertainment. Market Station is located between the historic post-industrial area of the Haymarket and an area of new developments located on land reclaimed from the railroad. Market Station seeks to bridge this gap between new and old developments and to be a place of engagement for artists and the community at large. It features a mixed-use program of a market hall, gallery, private studios, and live/work residences as well as a public square that serves as a major gateway through the Haymarket. Market Station can be broken up into four major pieces: the market hall, bar, podium, and the tower. The market hall can host multiple artisans and food vendors throughout the year as well as expand outside into the public square during the harvest season. It seeks to provide fresh food options year-round for resident artists as well as other residents of the Haymarket who do not have many local options for fresh food. The bar connects the market hall and podium and transitions from public to private spaces as you move south. The podium houses a cafe and dining area along the public square, as well as the residential lobby to the south. The tower was built up to the downtown Lincoln height limit to maximize the number of living units and features double-height lofted spaces to provide the maximum amount of natural light for its residents.

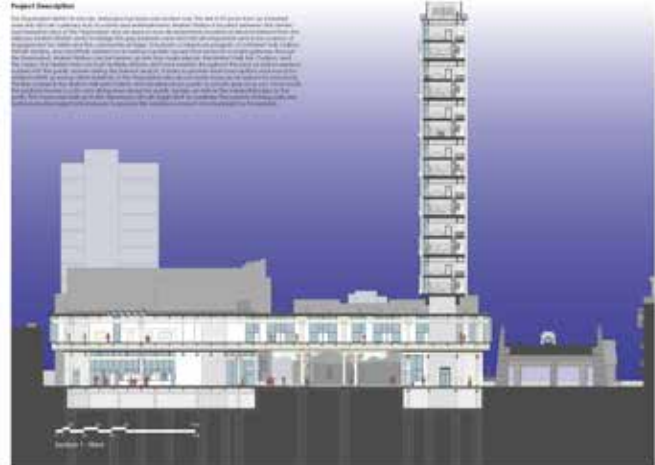
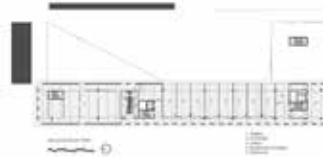






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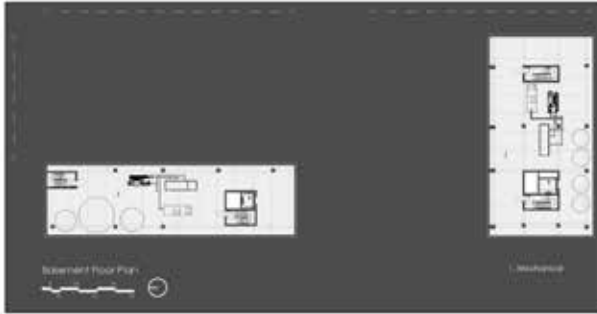
Jury comments: *The planning and adherence to zoning with the architectural solution are admirable. The jury noted the activation of the site and public plaza as a considered response to the urban condition.*

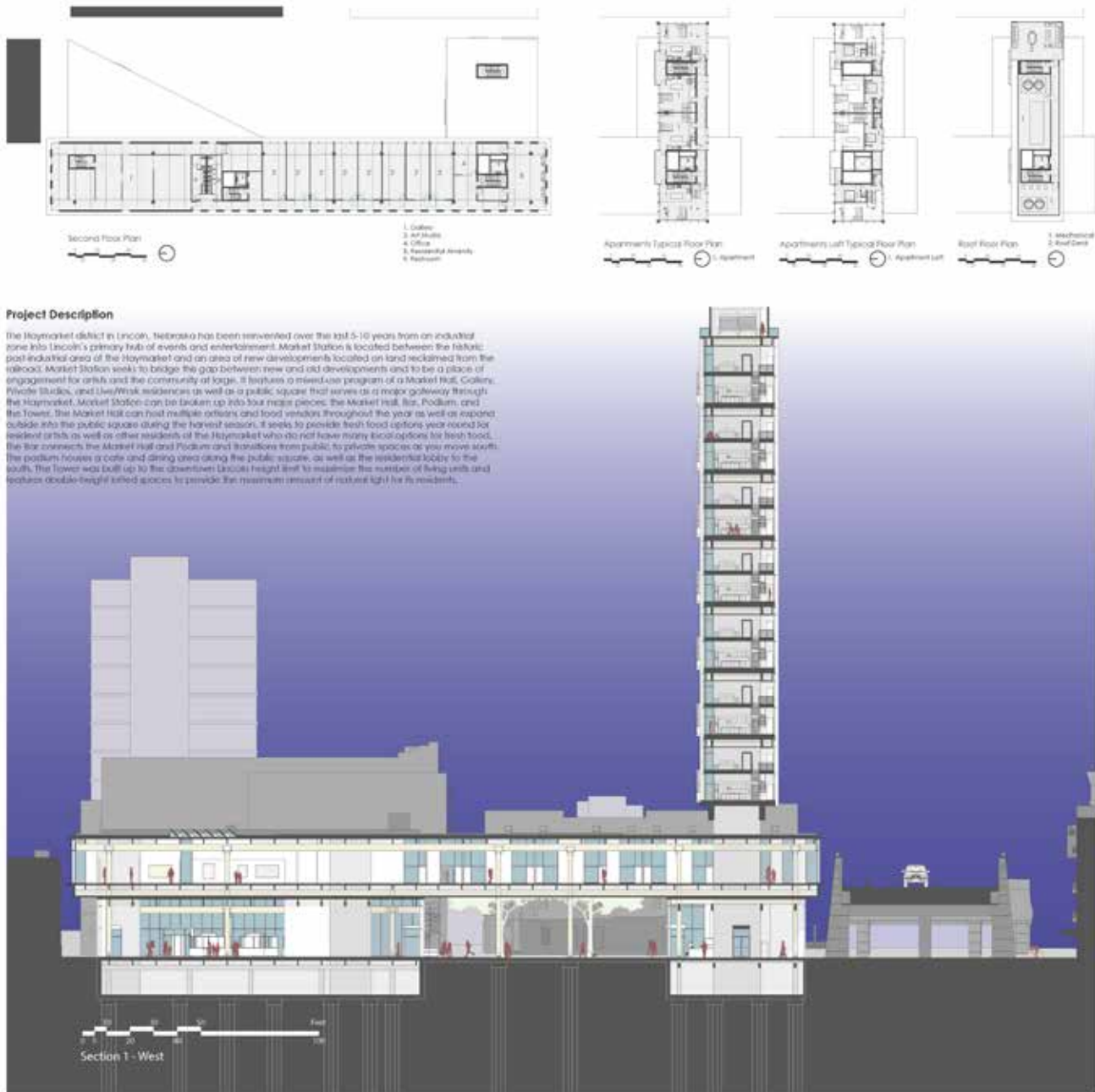
Market Station

Preston Doerrfeld
and Blake Phillips









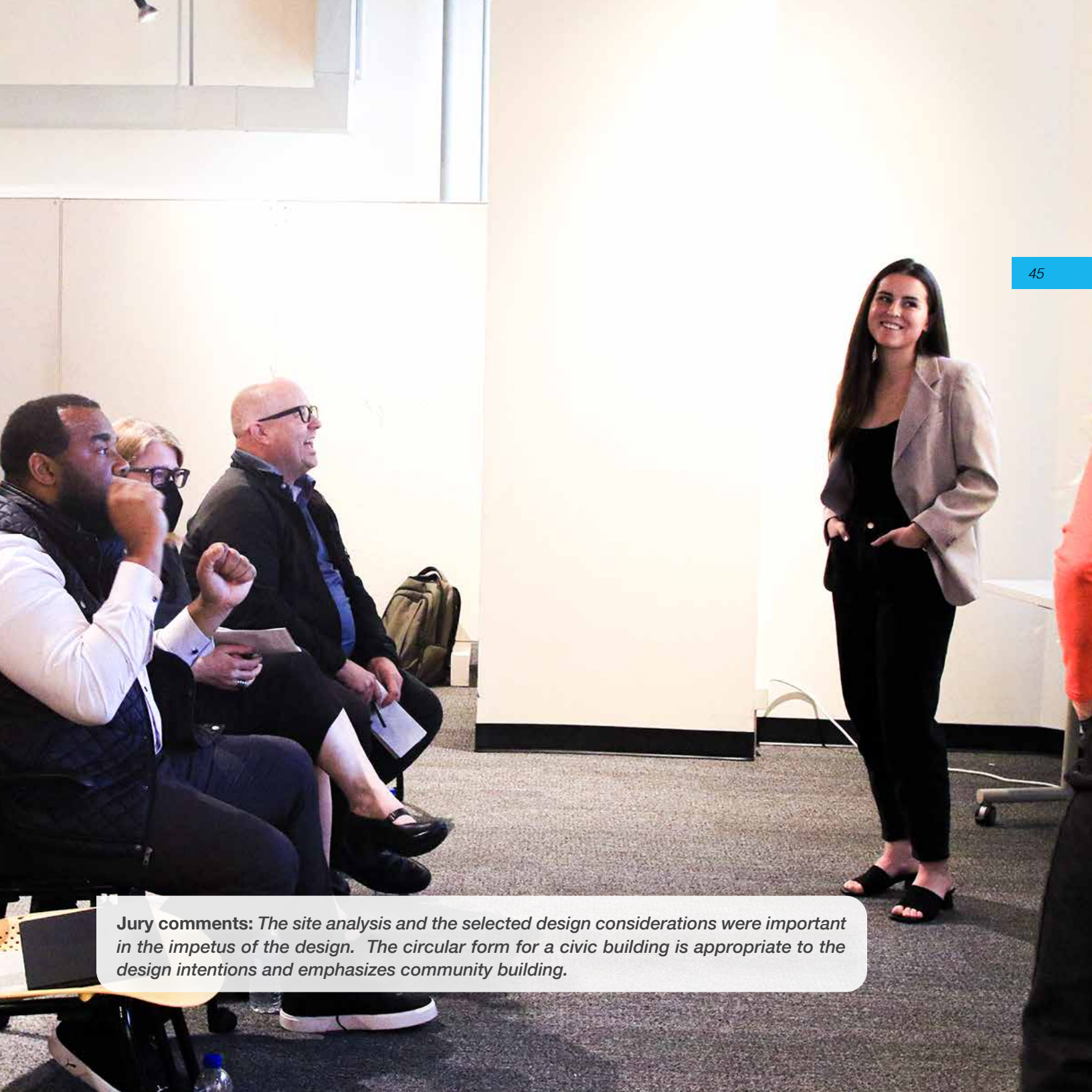
South Commons

Tymaree Krusemark and Megan Kortenhof
Faculty Mentor: David Newton

The South Commons provides spaces for encounters that strengthen and further the best interest of the community - without a consumer agenda. This is a place where both formal and informal events and progress take place, notably civic engagement. South Lincoln has no platform where community members can exercise democratic processes, such as healthy debate, without a destructive culture. The space will work to unify and stimulate a dull and disconnected area in the style of a contemporary social condenser. A circular form is utilized because it most effectively emphasizes the intersections of public space through a circulation ring in the center of that bleeds into the various programs. This wide intersection allows for various configurations hosting conversation and debate, supported by a central seating depression in the floor and re-configurable dividers providing surfaces to project media upon and new divisions of space. The asymmetrical sectored circle also lends itself to intriguing push and pull distortions complimenting environmental and view framing concerns. This sector strategy is extended into the landscape to create gathering spaces varying in size and program. Materiality was also used in a way to further these goals and curate feelings of innateness, stability, and civic importance. This was accomplished through a palette of expressive sand cast concrete, jagged at an oversized scale on the exterior, and contrasting smooth concrete on the interior. With the use of different textures, the taupe color serves as a unifier, something we hope to see occur among the users of the library.







Jury comments: *The site analysis and the selected design considerations were important in the impetus of the design. The circular form for a civic building is appropriate to the design intentions and emphasizes community building.*



SOUTH COMMONS

Megan Kortenof + Tymonius Associates

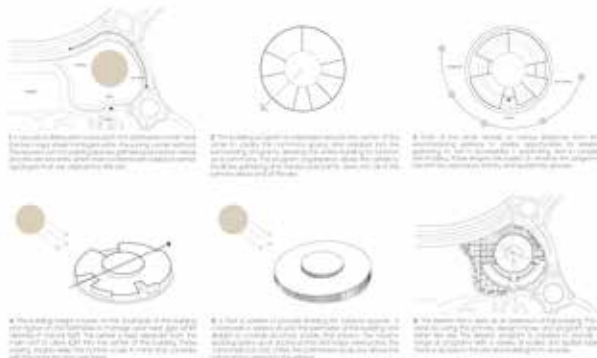
The commons provides spaces for encounters that strengthen and further the best interest of the community - without a consumer agenda. This is a place where both formal and informal events and progress take place, notably civic engagement. South Lincoln has no platform where community members can exercise democratic processes without hidden regulations or a destructive culture. This proposal will be a space promoting debate and conversation in a healthy and productive way. The space will work to unify and stimulate a rather dull and disconnected area.

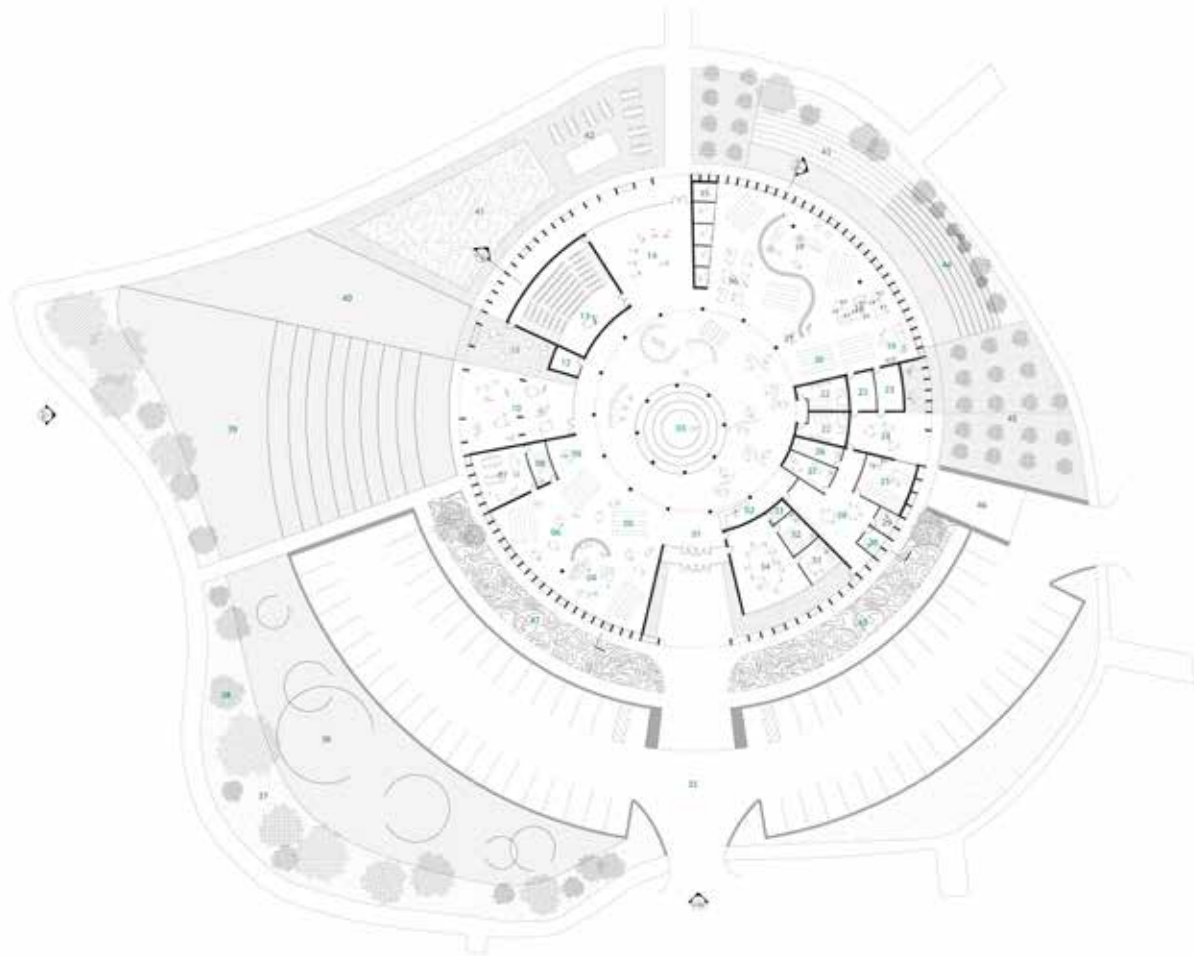
The idea of a social condenser to fulfill these goals has been explored time and time again but has yet to realize a form that's successes lasts longer than just a brief moment in time. The works of infamous social condenser proponents such as Moshe Ginzburg and Rem Koolhaas can point us closer to achieving this form by studying their downfalls and improving upon them.

In order to see these goals to fruition, we are striving to make the commons a central hub for the community, free of intimidation and polarization. This process will function best in an environment that finds an appropriate balance between energetic and grounded. Users will be immersed in the clashing of a multitude of programs in the center commons with the intentional lack of seclusion, physically and visually. Reconfigurable dividers provide surfaces to project media upon and new divisions of space to aid in these processes.

The circular form is utilized because it most effectively emphasizes the intersections of public space through a circulation ring in the center of that bleeds into the various programs. This wide intersection allows for various configurations hosting conversation and debate unseen in previous condensers, specifically promoting democratic processes. Within the intersection, a central depression in the floor functions as a versatile seating and gathering area. Reconfigurable dividers provide surfaces to project media upon and new divisions of space to aid in these processes. The asymmetrical sectored circle also lends itself to non-hierarchical organizations and intriguing push and pull distortions complementing environmental and view framing concerns. Undulating floors work to further interactions between the program sectors. This strategy is continued into the landscape, extending main formal lines to create gathering spaces varying in size and program.

01 library as commons 02 commons as civic agent





1. ENTRANCE
2. MAIN INFO DESK
3. COMPOS
4. LEARN THROUGH PLAY
5. CHILDREN'S STACKS
6. READING SEATING
7. CHILDREN'S PROGRAM ROOM
8. STORAGE
9. CHILDREN'S INFO DESK
10. OUTDOOR SEATING

11. OUTDOOR READING
12. MECHANICAL ROOM
13. AUDITORIUM
14. COMMUNITY EVENT SPACE
15. STUDY ROOMS
16. TABLES AND SEATING
17. READING SEATING
18. COLLABORATIVE TECH WORKSPACES
19. COPY AND PRINT
20. ADULT + TEEN STACKS

21. ADULT + TEEN INFO DESK
22. RESTROOMS
23. SERVICE ROOMS
24. OUTDOOR EMPLOYEE LOUNGE
25. SHIPPING + RECEIVING
26. STORAGE
27. STAFF LOUNGE
28. STAFF WORKSPACE
29. OFFICE ONE
30. OFFICE TWO

31. FRIENDS OF THE LIBRARY
32. STORAGE
33. RESTROOM
34. PUBLIC MEETING
35. PARKING
36. RAISED GATHERING AREAS
37. NATIVE GRASS BED
38. TREE LINE
39. LARGE EVENT SPACE
40. SOUND BLOCKING PLATEAU

41. NATIVE PLANTING BED
42. SMALL EVENT SPACE
43. GRASS TERRACE
44. READING TERRACE
45. PAVED TREE BARRIER
46. SERVICE ENTRANCE
47. BIO RETENTION BED





COMMUNITY FORUM

EDUCATION
AND RECREATIONRETAIL
AND DININGLIBRARY
AND MUSEUM

FITNESS CENTER



RESTAURANT





Ashley Byars, Lecturer

Ryan Hier, Lecturer

* Austin Wahl and Xander Parker | Excellence

Tristan Brickman	Alexander Parker
Haleigh Carr	Doug Rief
Josh Dickey	Alyssa Villarreal
Rianna Gunter	Austin Wahl
Ashley Hillhouse	Kayla Weller
Elizabeth Kramer	

Craig Babe, Associate Professor of Practice

* Preston Doerrfeld and Blake Phillips

Spencer Arnold	Ryan Haskell
Kennedy Beemer	Caleb Laurence
Jarod Bengtson	Carlos Perez-Madrid
Payton Betzold	Blake Phillips
Preston Doerrfeld	Ben Van Brocklin
Thomas Gerdes	Jared Watermeier

* **Studio Finalist**

Beau Johnson, Lecturer

* Ethan Boerner and Mason Burress | Honor

Ethan Boerner	Bridget Knudtson
Mia Brenner	Dariya Krestovsky
Mason Burress	Mackenzie Modde
Brendan Colford	Kathleen O'Gara
Jacob Granger	Cameron Spangler
Audrey Huse	

David Newton, Assistant Professor

* Tymaree Krusemark and Megan Kortenhof

Sitora Alieva	Megan Kortenhof
Jessica Fujan	Tymaree Krusemark
Meagan Hollman	Sarah Meeves
Ryker Hoy	Zitlalic Parra Valencia
Hannah Kettle	Sophia Swanson
Louis Khu	Allen Weaver



Edwin Harris and jury offer insightful reflection on finalist projects prior to announcing the winners.

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