

Prioritizing Outdoor Learning through Holistic Planning Strategies

Tuesday, November 7 | 8am-9am

Zachary Broussard
CARBO Landscape Architecture



Partner

Institutional | Commercial Studio Principal

15+ Years Experience

45+ Higher Ed and K-12 Projects

Bachelor of Landscape Architecture Louisiana State University

Greg Papay *Lake Flato Architects*



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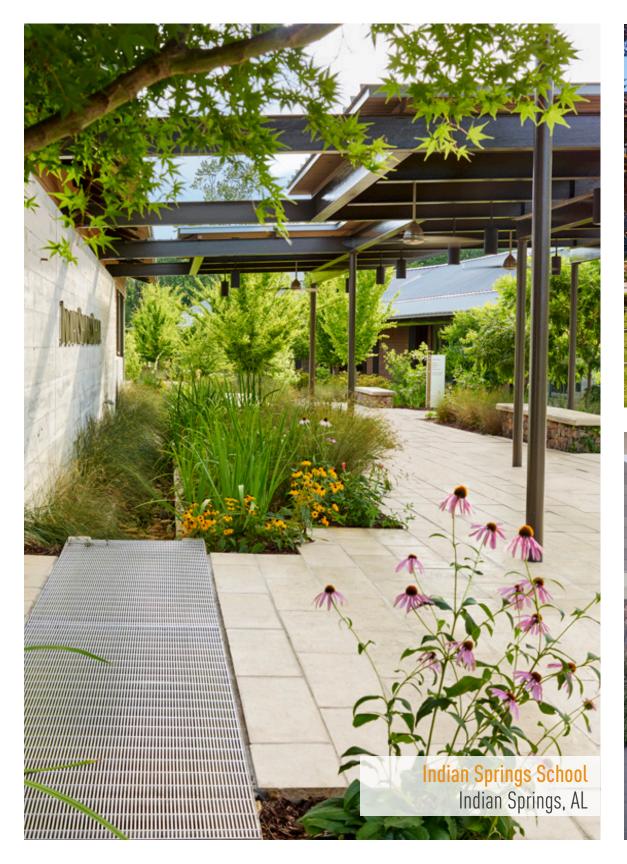
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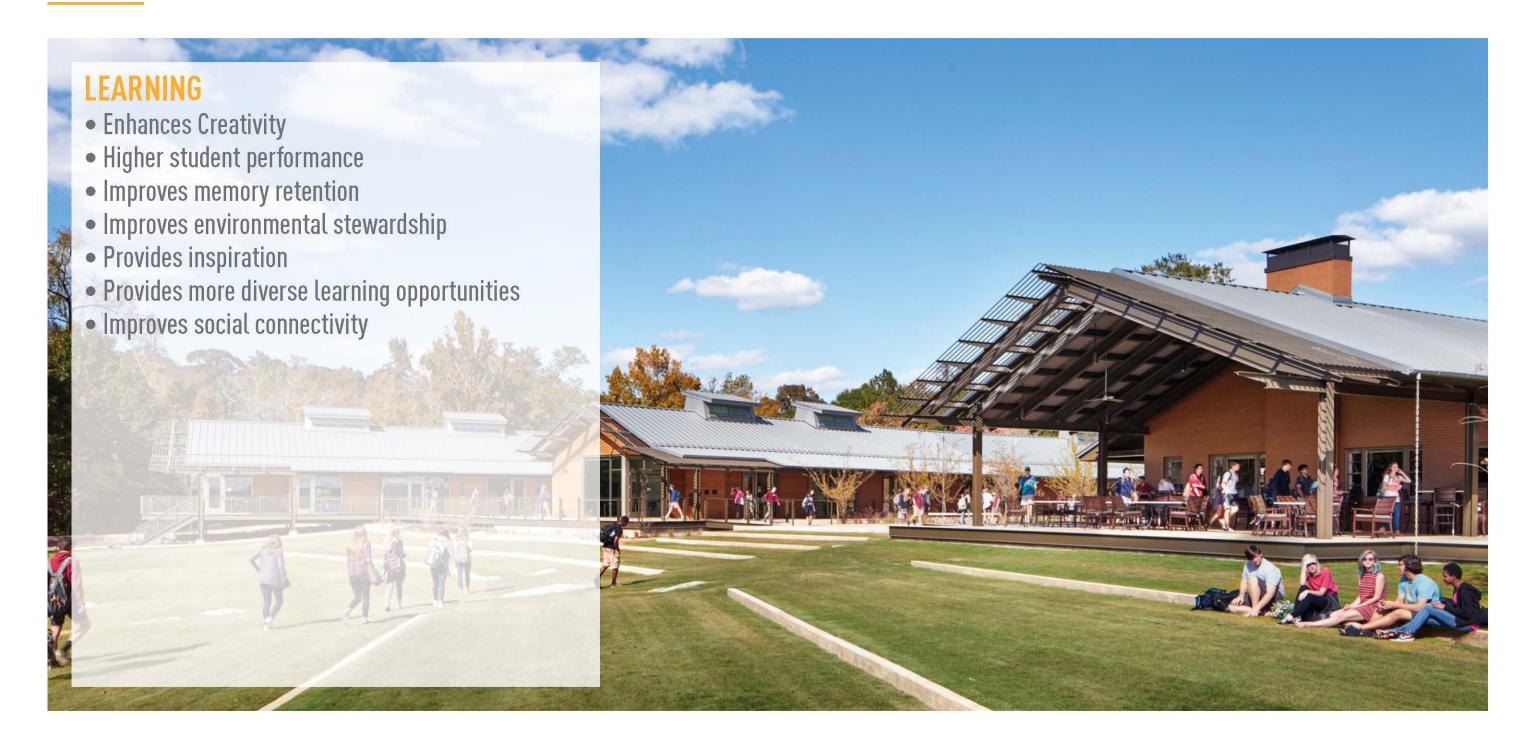




WHAT'S SO GREAT ABOUT THE OUTDOORS?



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LEARNING

- Enhances Creativity
- Higher student performance
- Improves memory retention
- Improves environmental stewardship
- Provides inspiration
- Provides more diverse learning opportunities
- Improves social connectivity

HEALTH

- Reduces Stress
- Boosts immune system
- Raises alertness
- Improve physical healing outcomes
- Provides seratonin (Improves sleep)
- Social connectivity = Health





SINCE COVID

Among those aged 5-18



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•Incidents of severe depression has increased 10%



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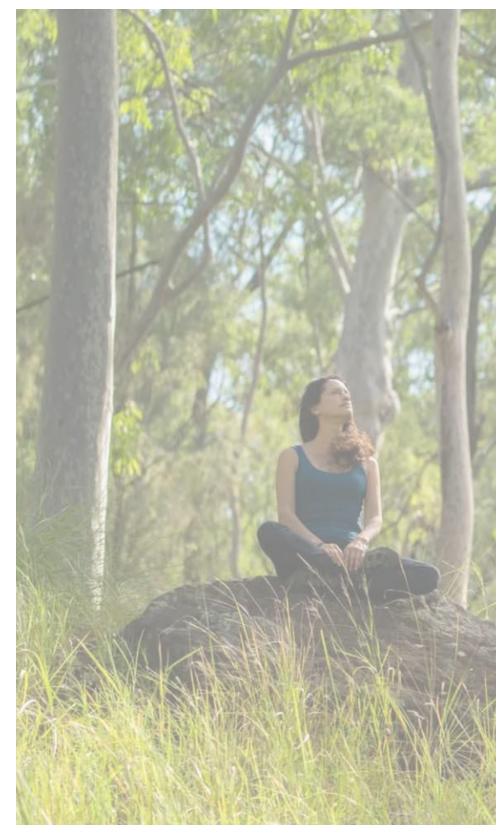
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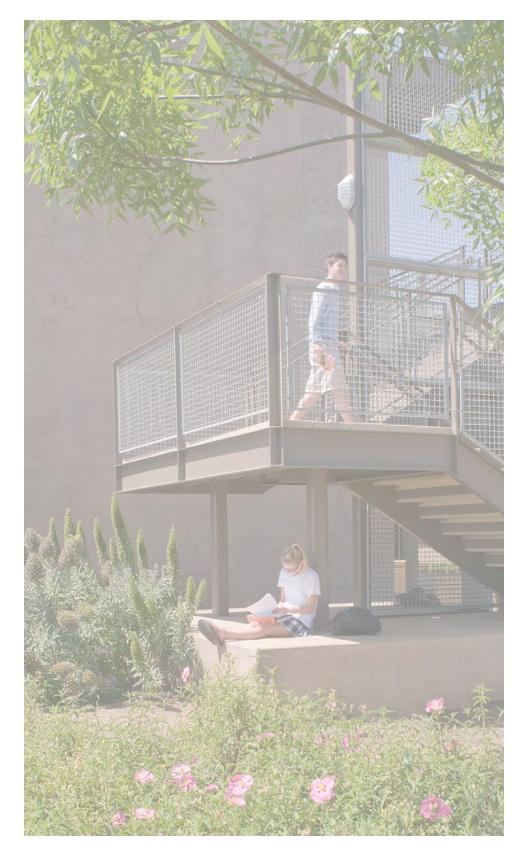
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Schools need to function both as places of mental well-being as well as places of learning!

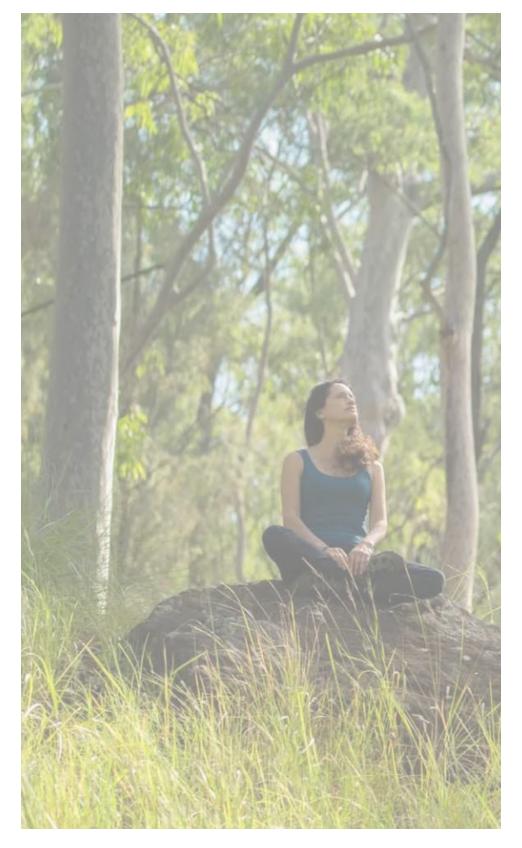


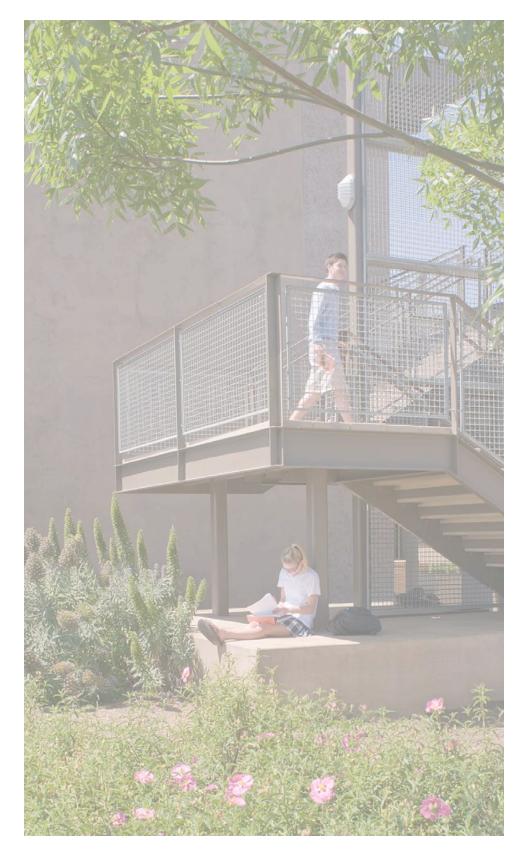




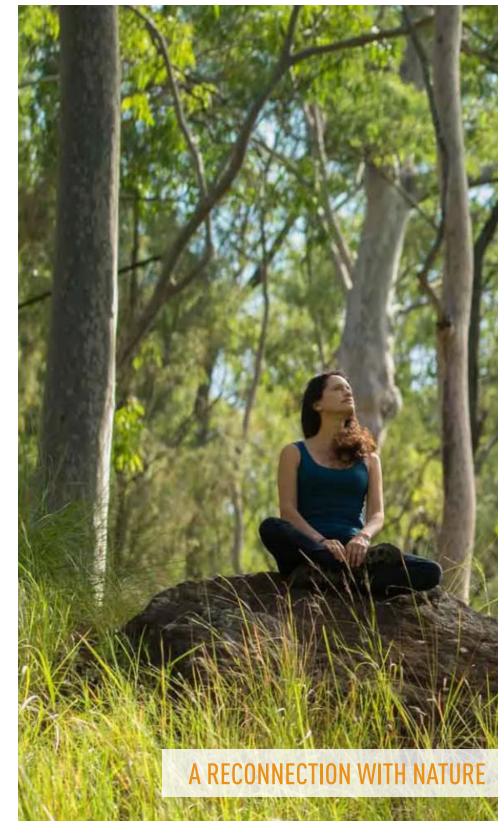






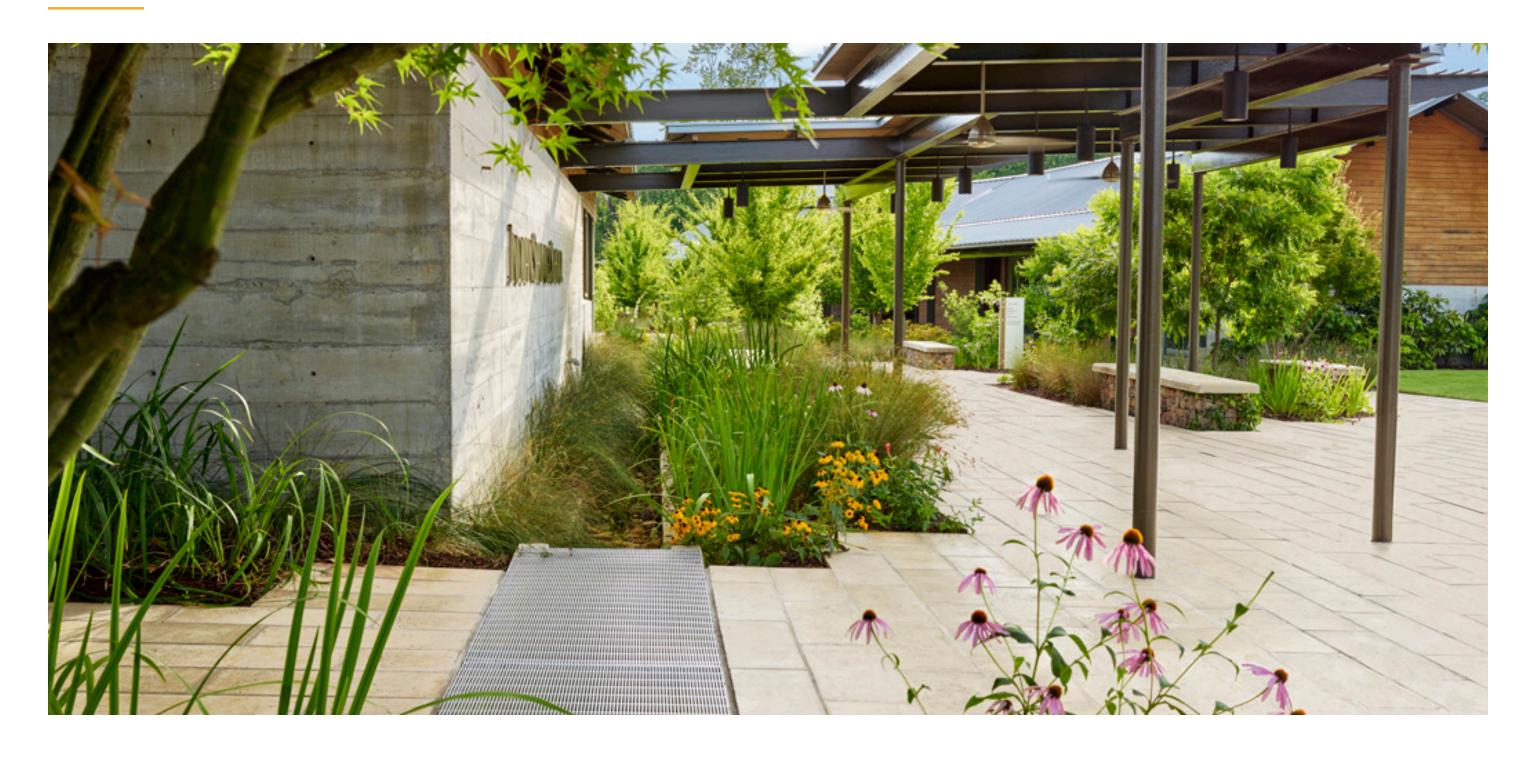




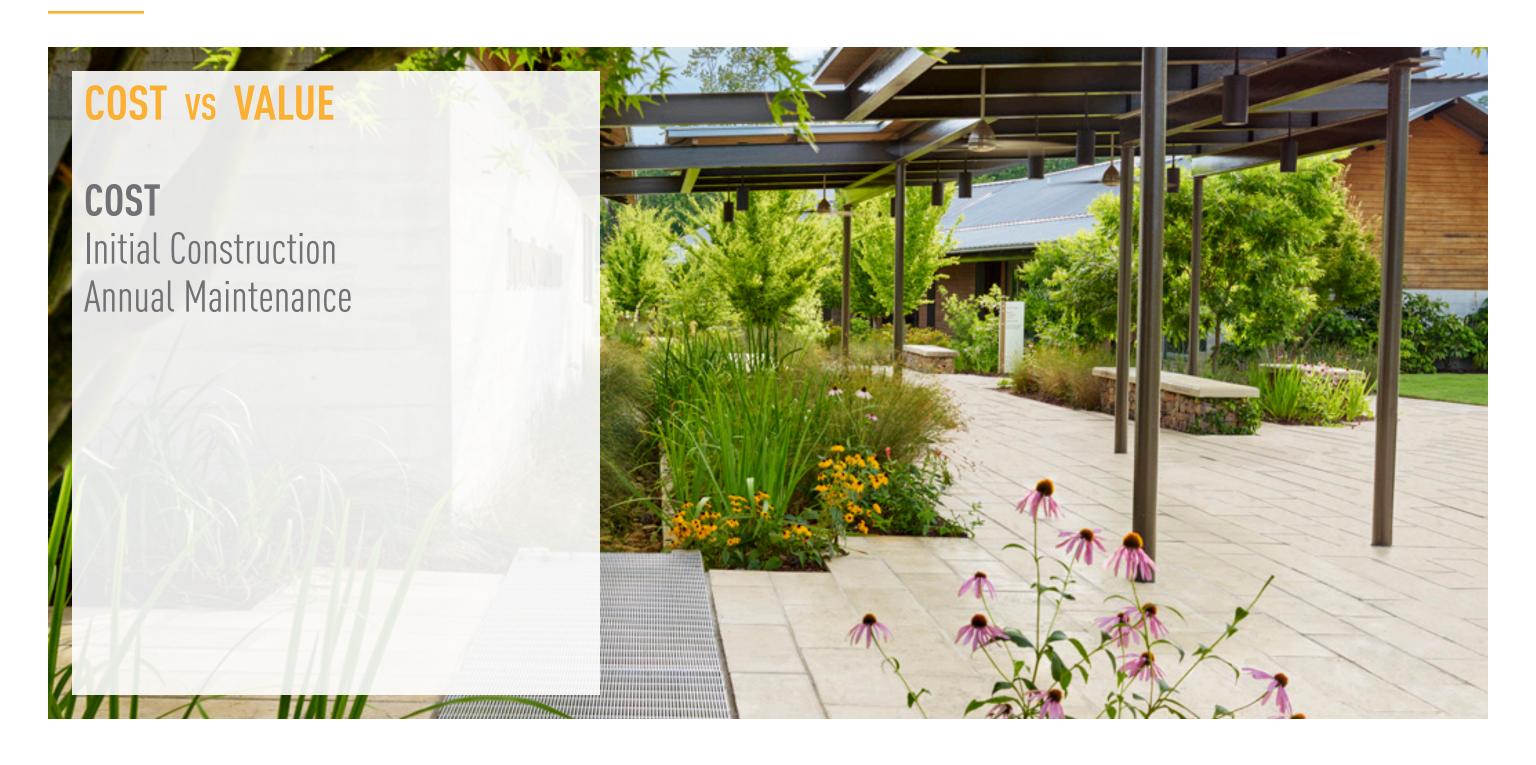


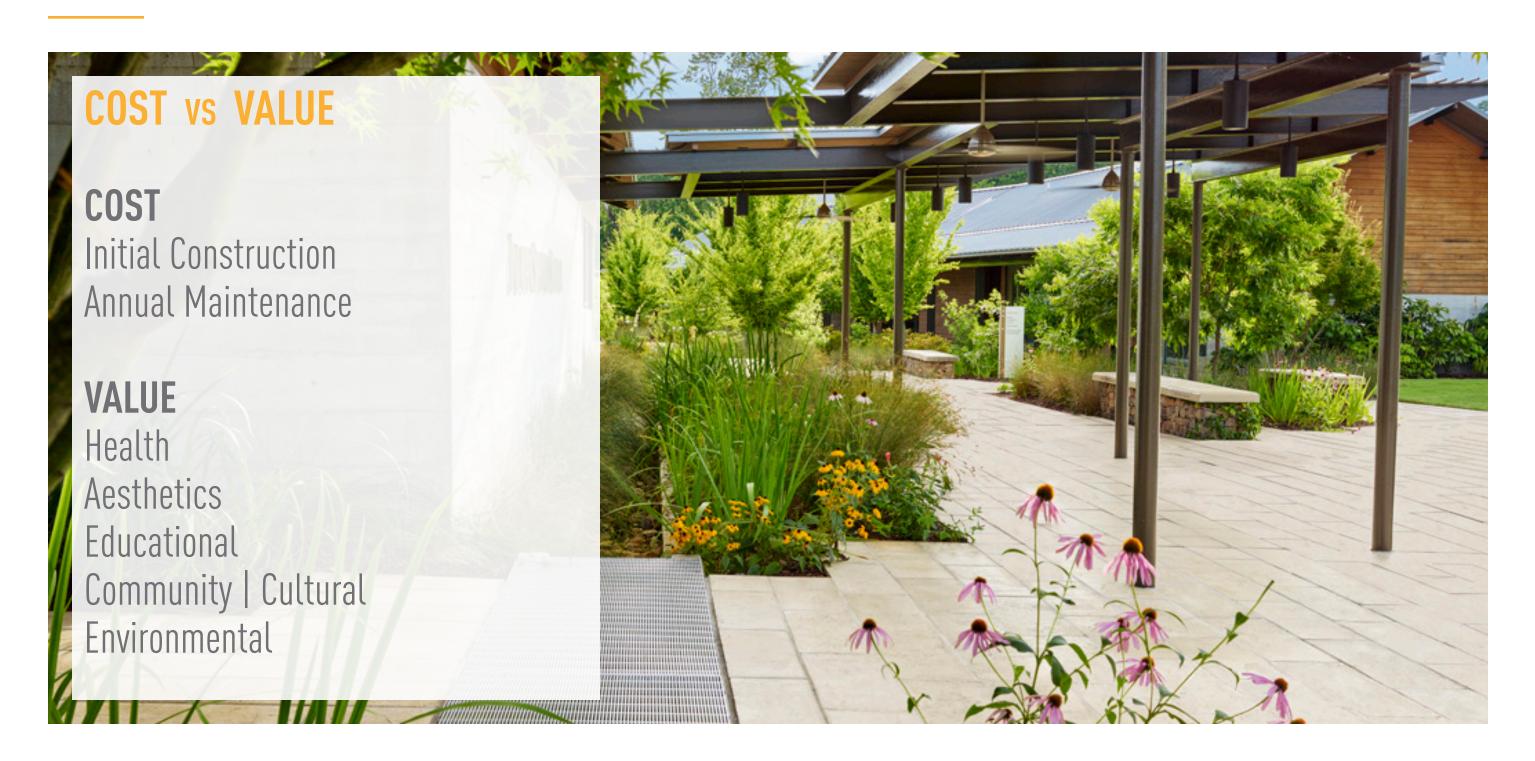
THIS IS OBVIOUS! EVERYONE KNOWS THE OUTDOORS IS GREAT











LANDSCAPES AS CLASSROOMS | SCIENCE



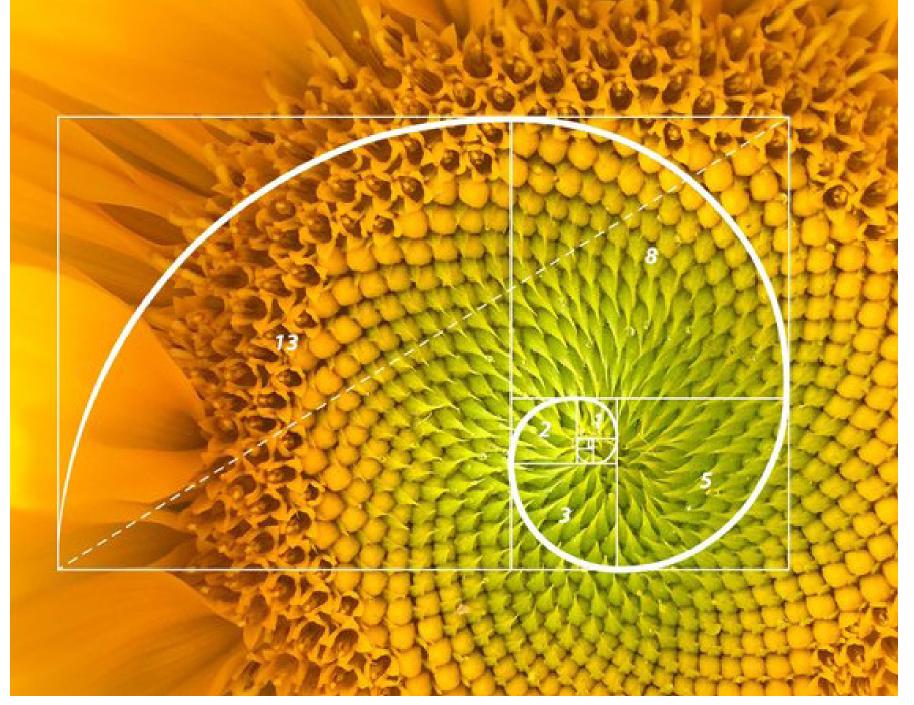
LANDSCAPES AS CLASSROOMS | TECHNOLOGY



LANDSCAPES AS CLASSROOMS | ENGINEERING

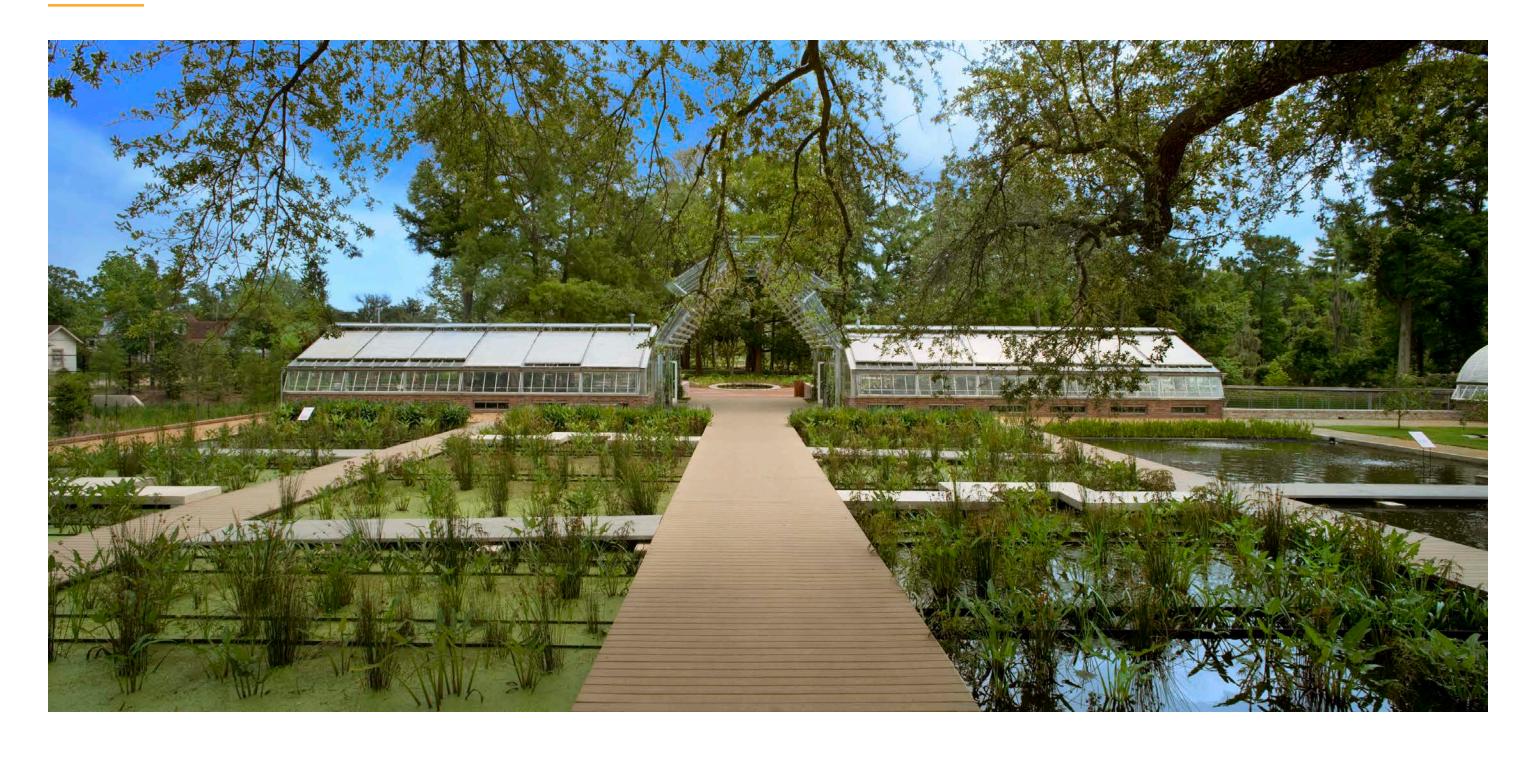


LANDSCAPES AS CLASSROOMS | MATH





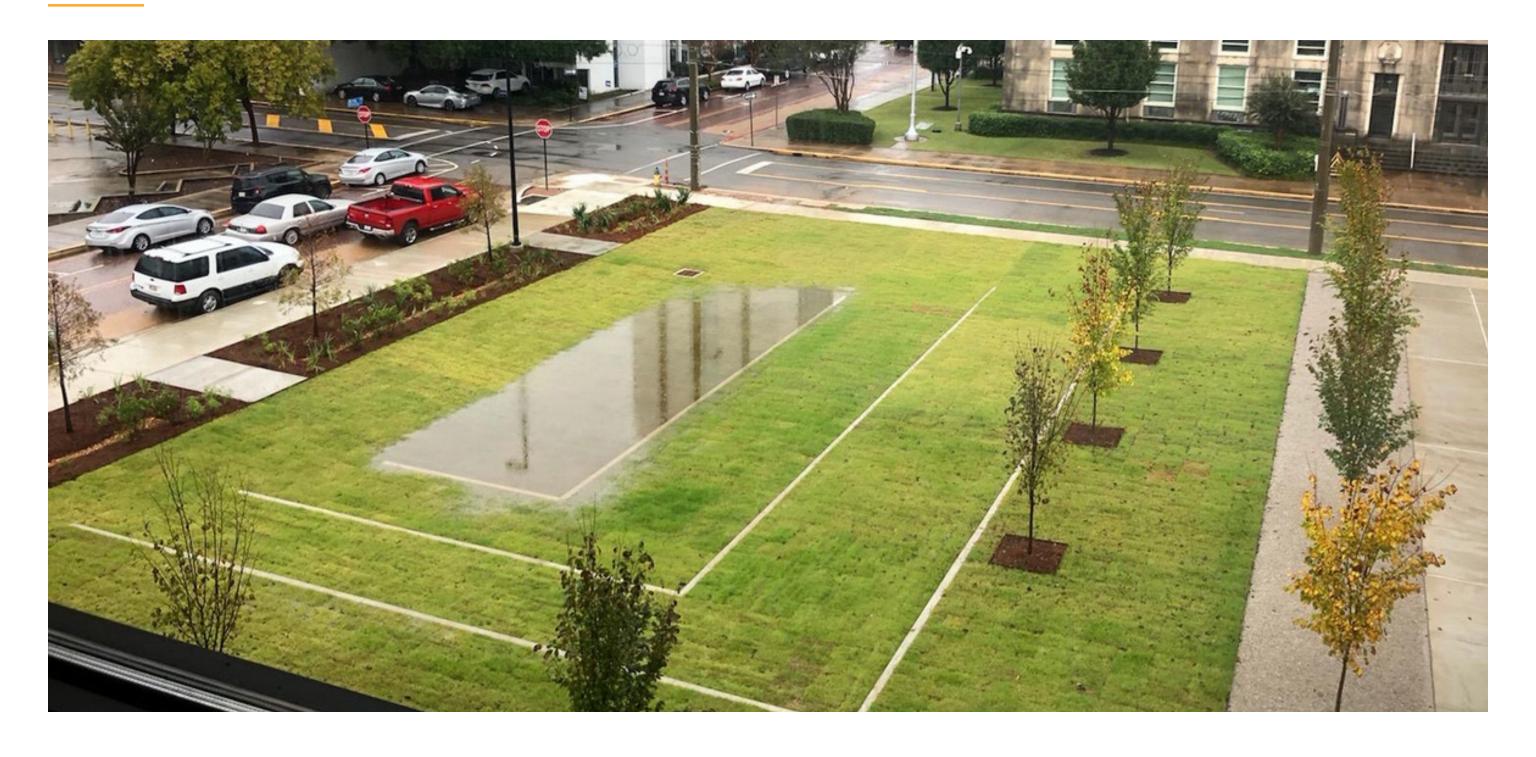
LANDSCAPES AS ART



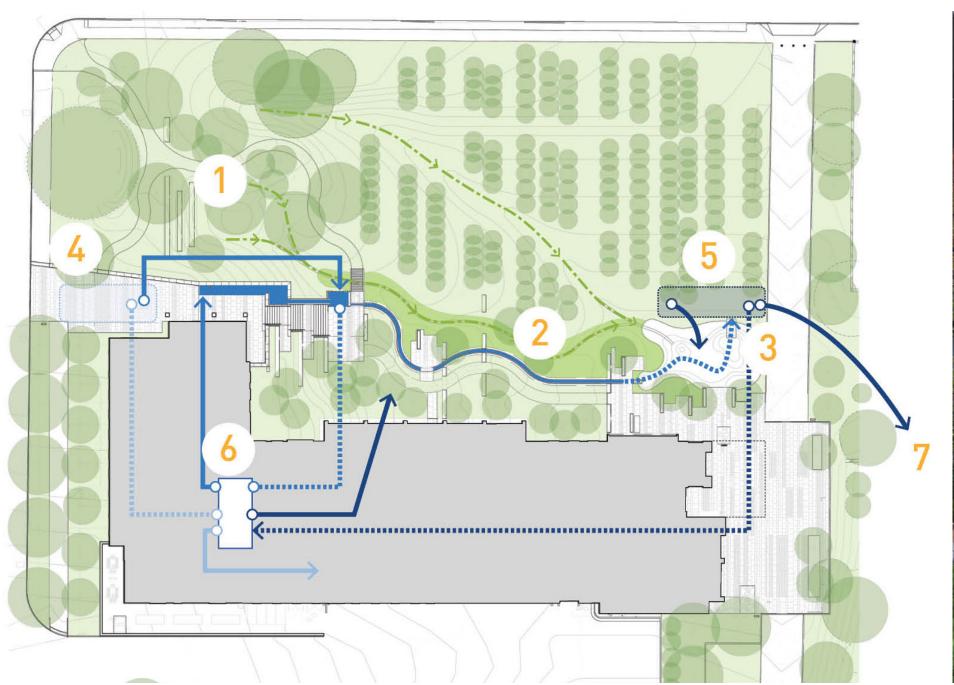
LANDSCAPES AS COMMUNITY SPACES

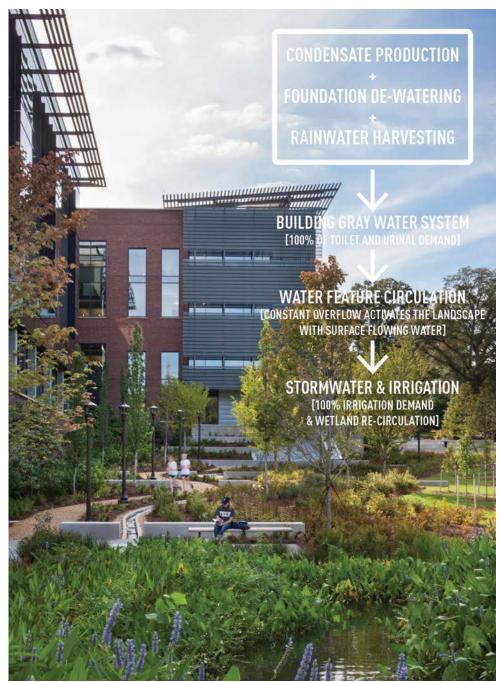


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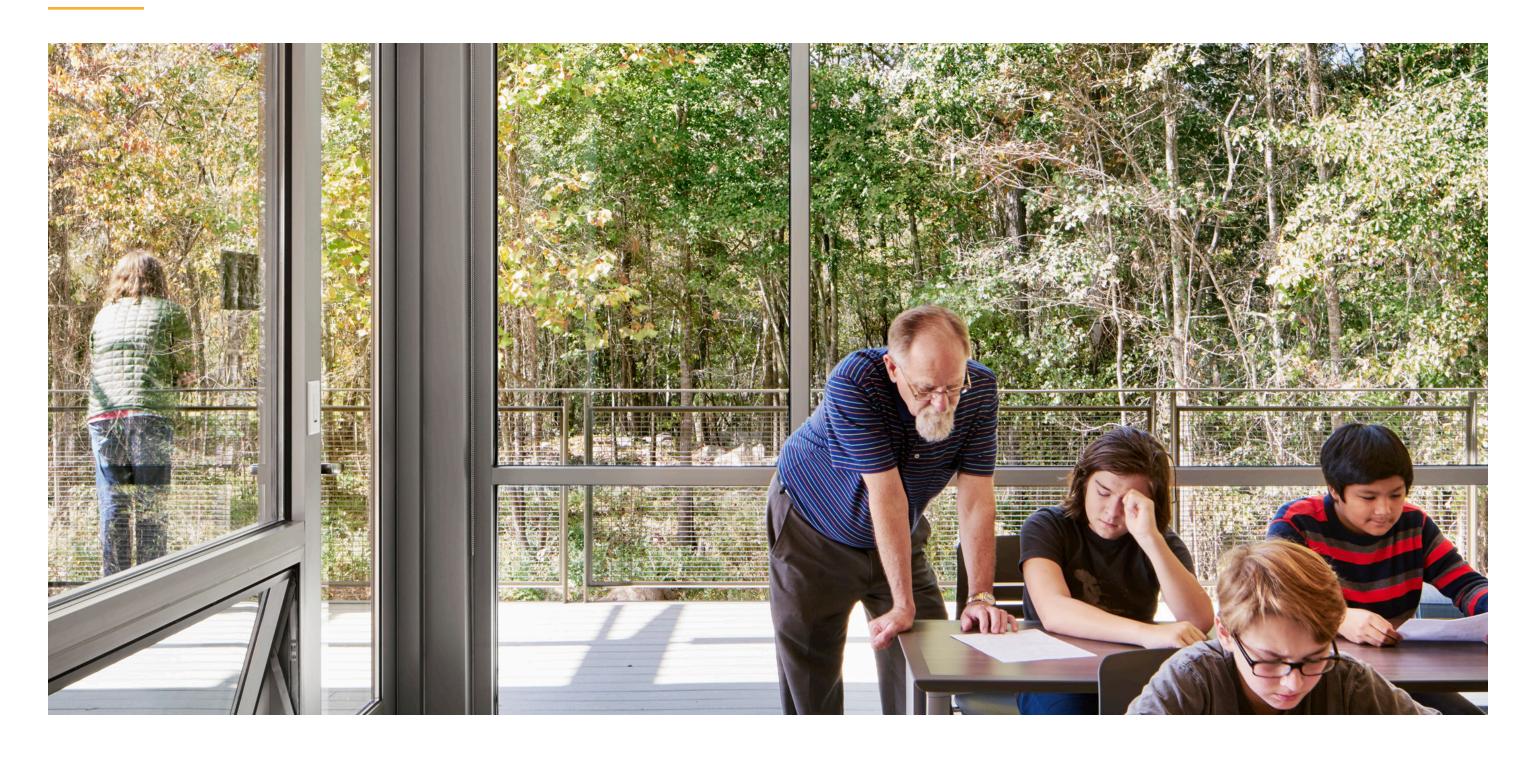


LANDSCAPES AS SYSTEMS





LANDSCAPES FOR HEALTH



CURRICULUM INTEGRATION



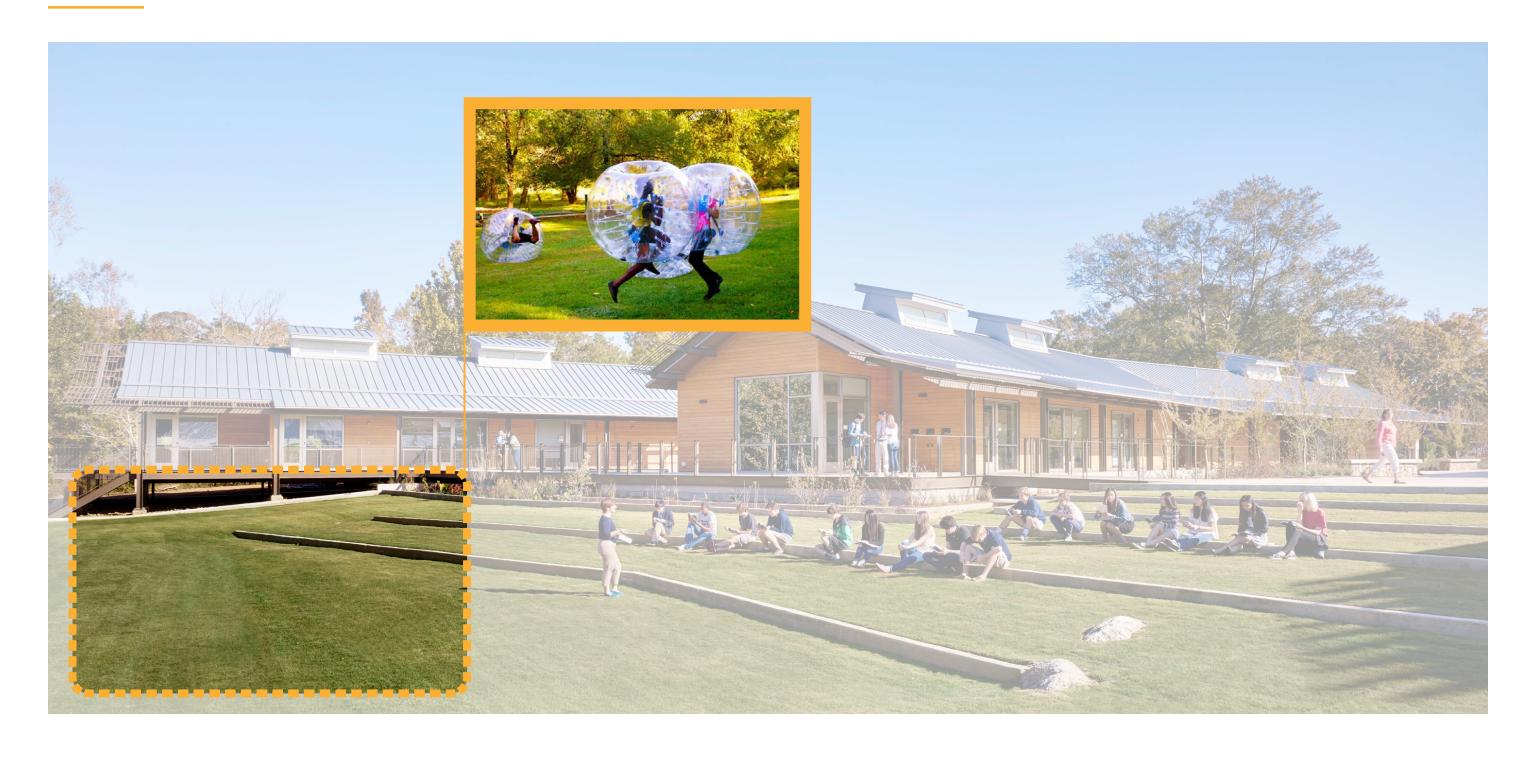
CURRICULUM INTEGRATION | CHEMICAL REACTIONS



CURRICULUM INTEGRATION | ROCKET SCIENCE



CURRICULUM INTEGRATION | ENERGY CONVERSION



CURRICULUM INTEGRATION



CURRICULUM INTEGRATION | SOLAR ENERGY



CURRICULUM INTEGRATION | CLIMATE & WEATHER



CURRICULUM INTEGRATION | GEOLOGICAL FORMATIONS



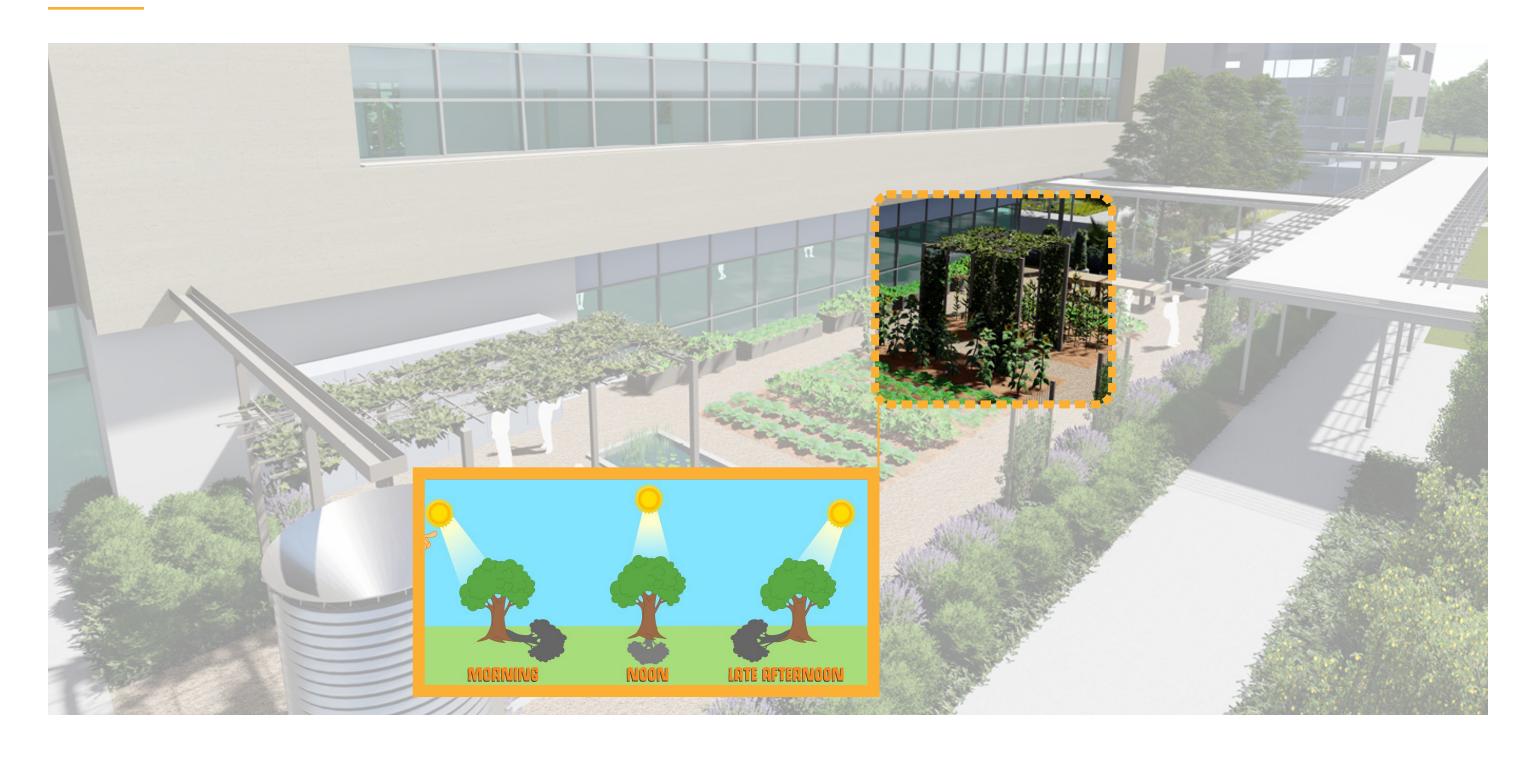
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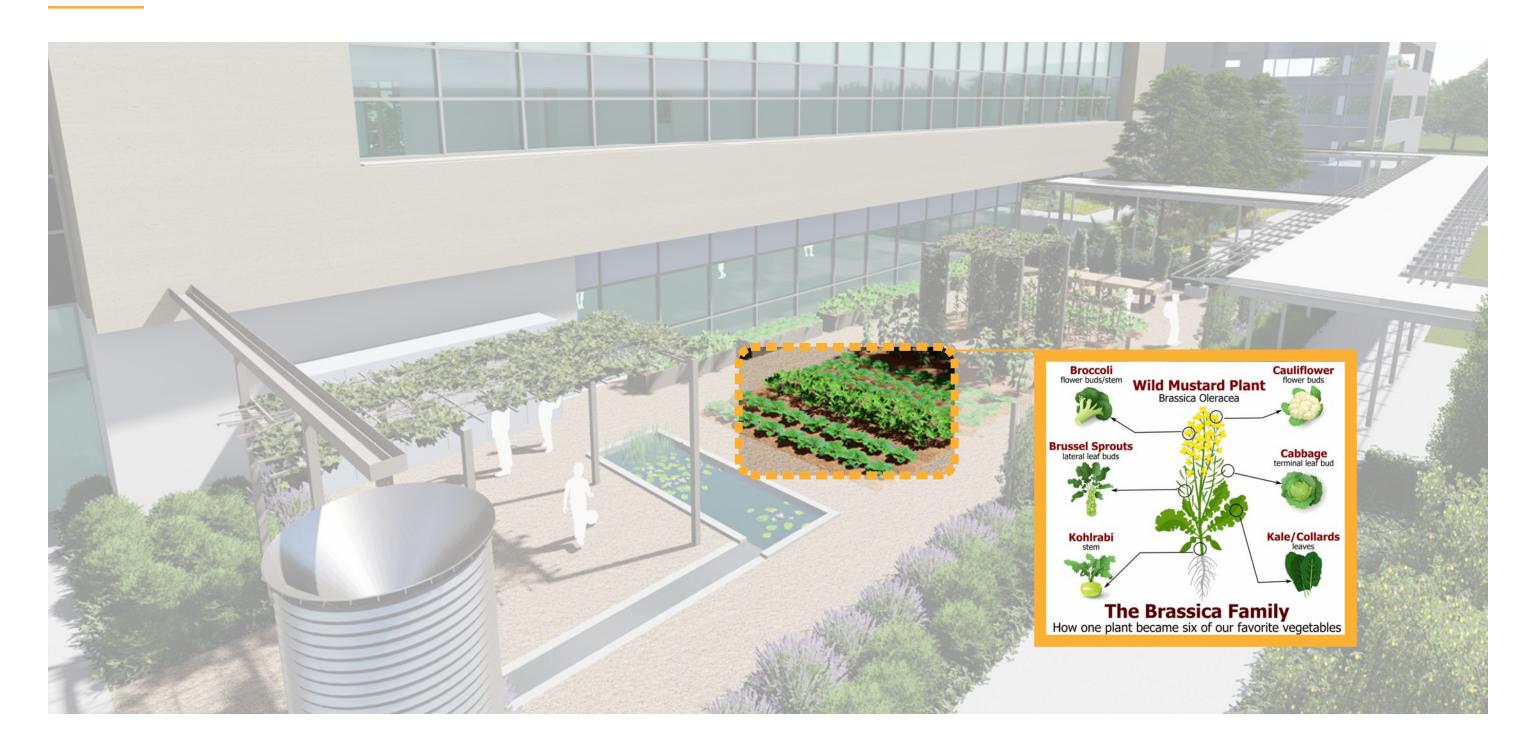
CURRICULUM INTEGRATION | LIFE CYCLES



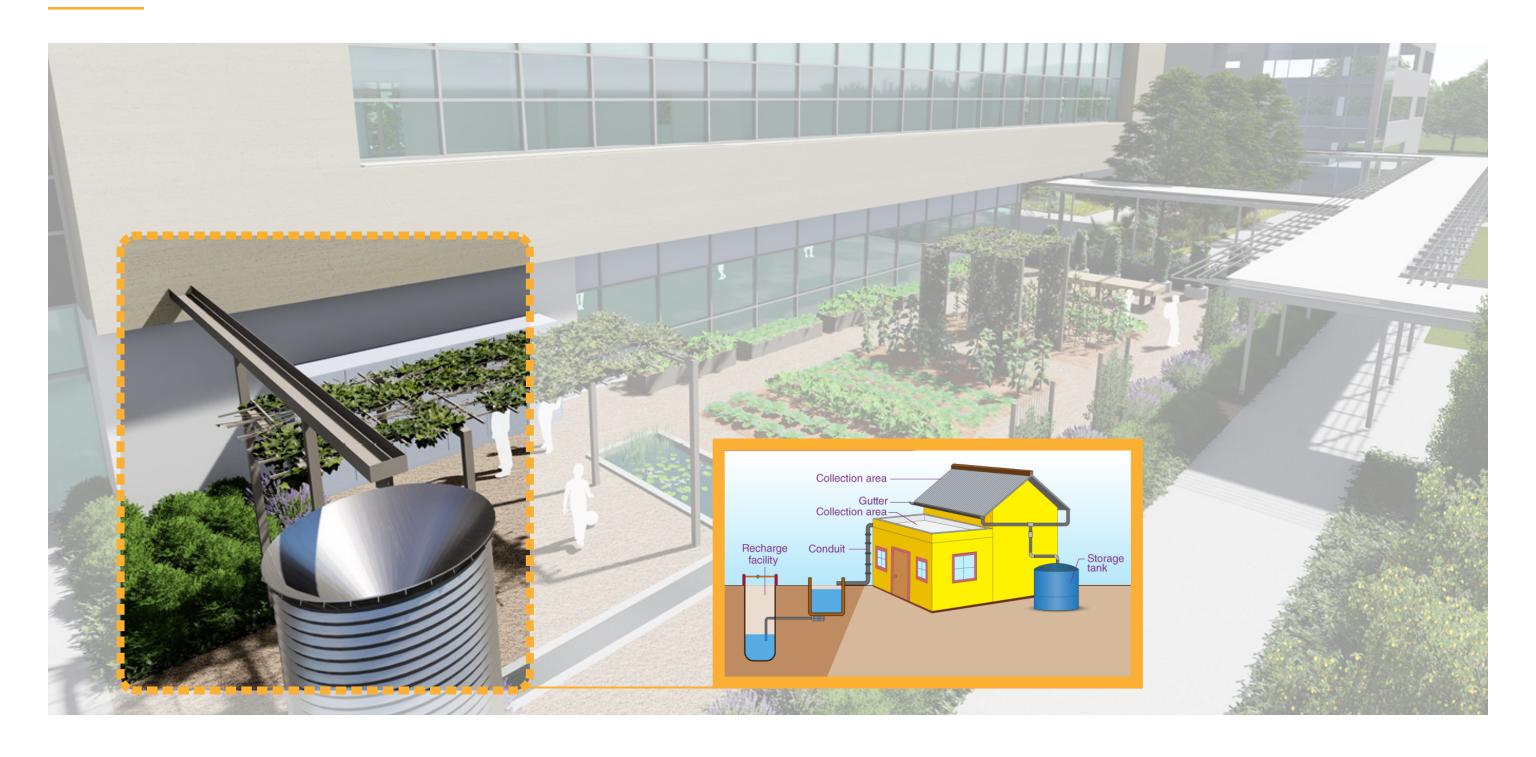
CURRICULUM INTEGRATION | LIGHT & SHADOWS



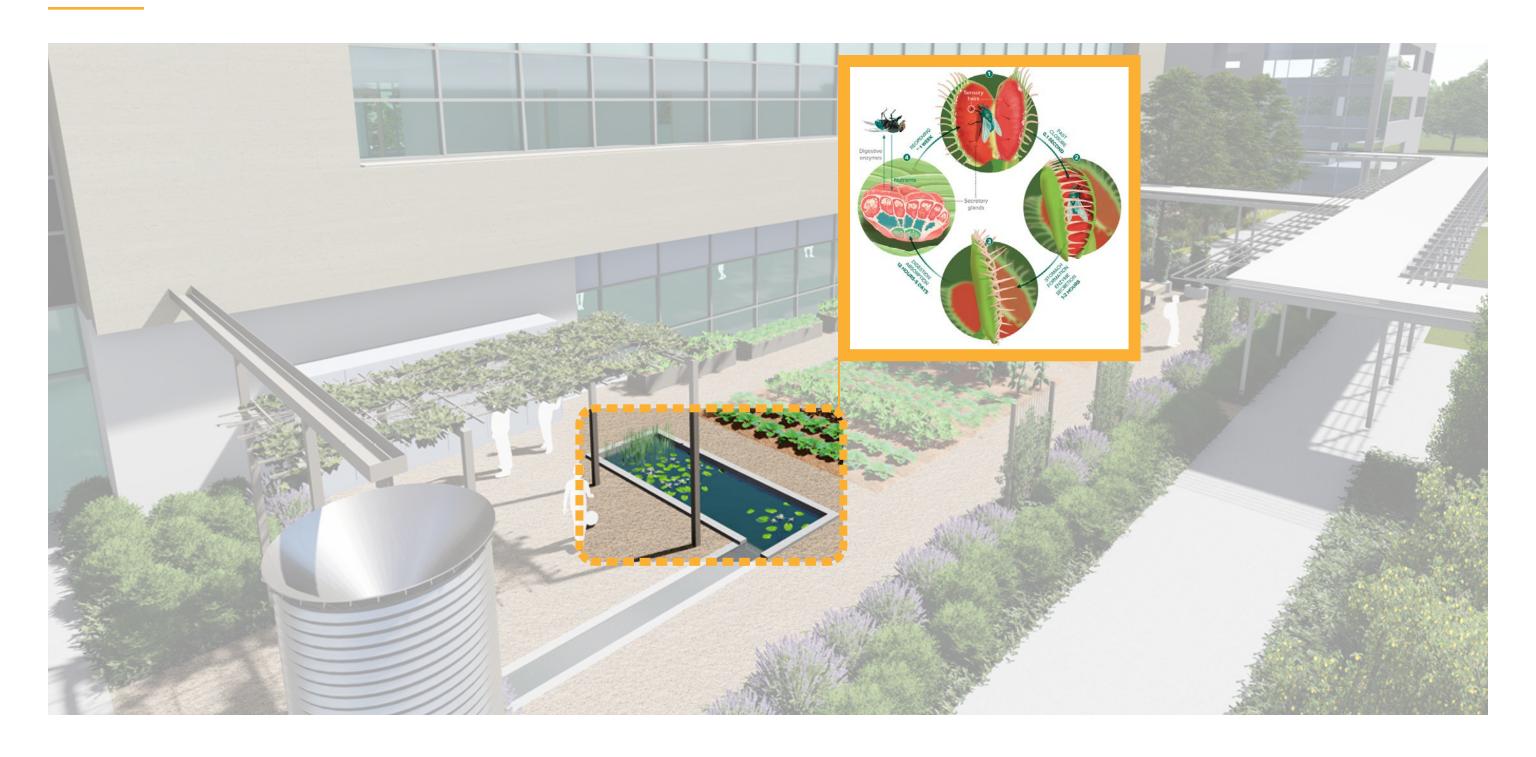
CURRICULUM INTEGRATION | GENETICS



CURRICULUM INTEGRATION | WATER CONSERVATION



CURRICULUM INTEGRATION | BIOLOGY



CURRICULUM INTEGRATION



CURRICULUM INTEGRATION | ENVIRONMENTAL SCIENCE



CURRICULUM INTEGRATION | GEOMORPHOLOGY



CURRICULUM INTEGRATION | BIOMIMICRY



RESOURCES





American Society of Landscape Architects

Cities Connecting Children to Nature







HOLISTIC DESIGN & PLANNING









• Original Proposal Building-First, Outdoors-last



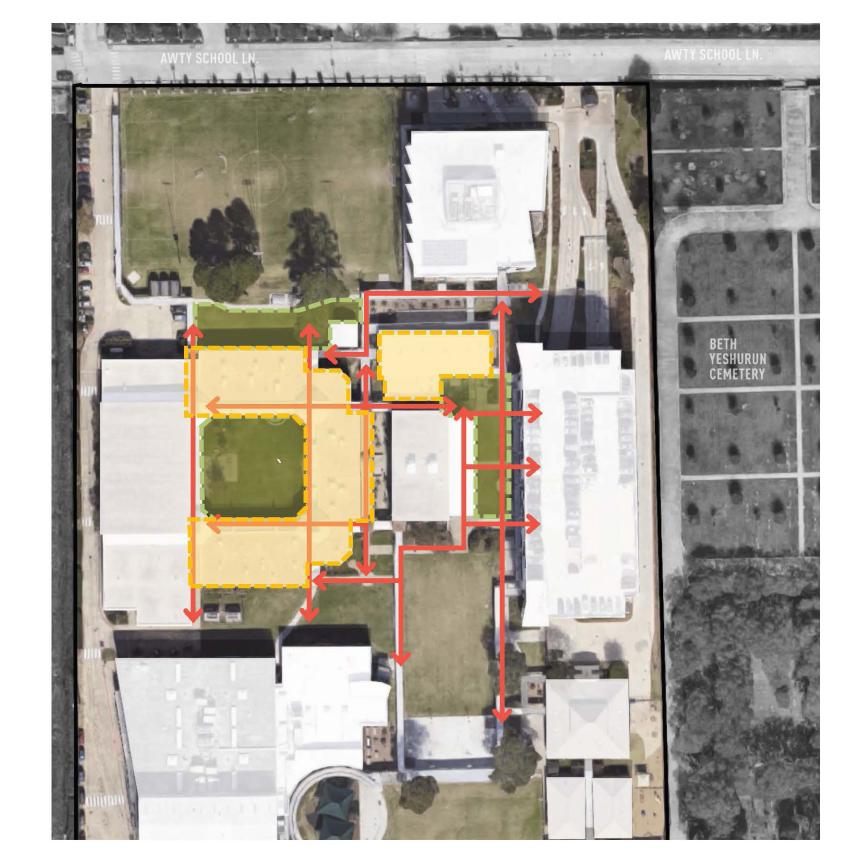
- Original Proposal Building-First, Outdoors-last
- Existing Outdoor Spaces Undersized
- & Underutilized



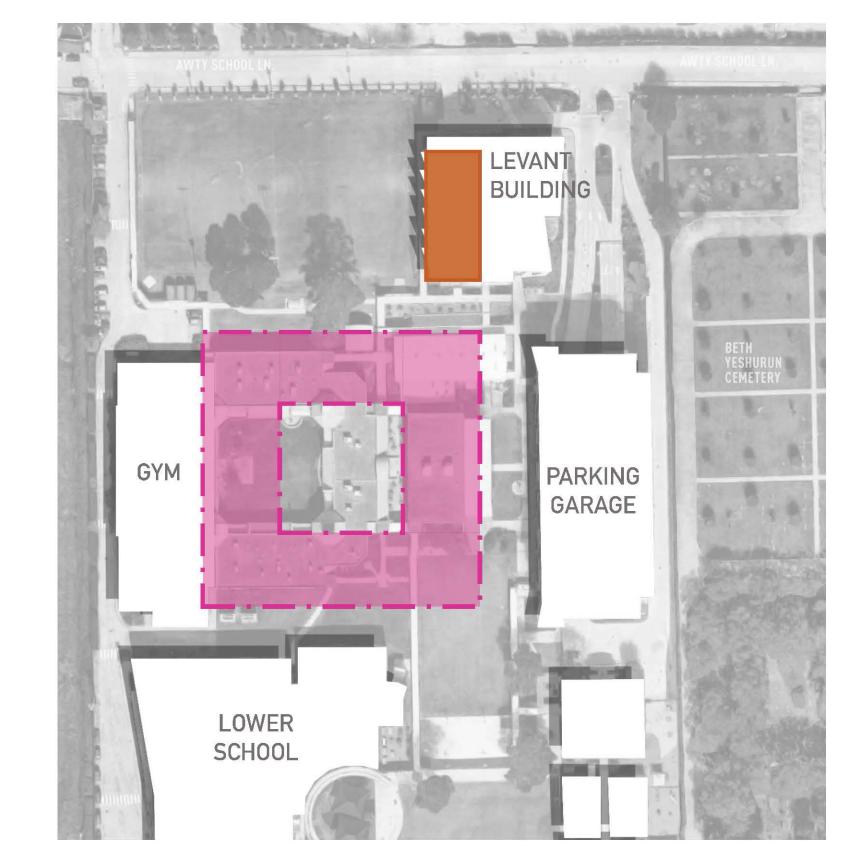
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- Existing Outdoor Spaces Undersized
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- Travel is fractured & Disjointed
- Outdoor Opportunities are Challenging Because
 Most Campus Structures are 1-Story



• From There We Proposed a Development Zone



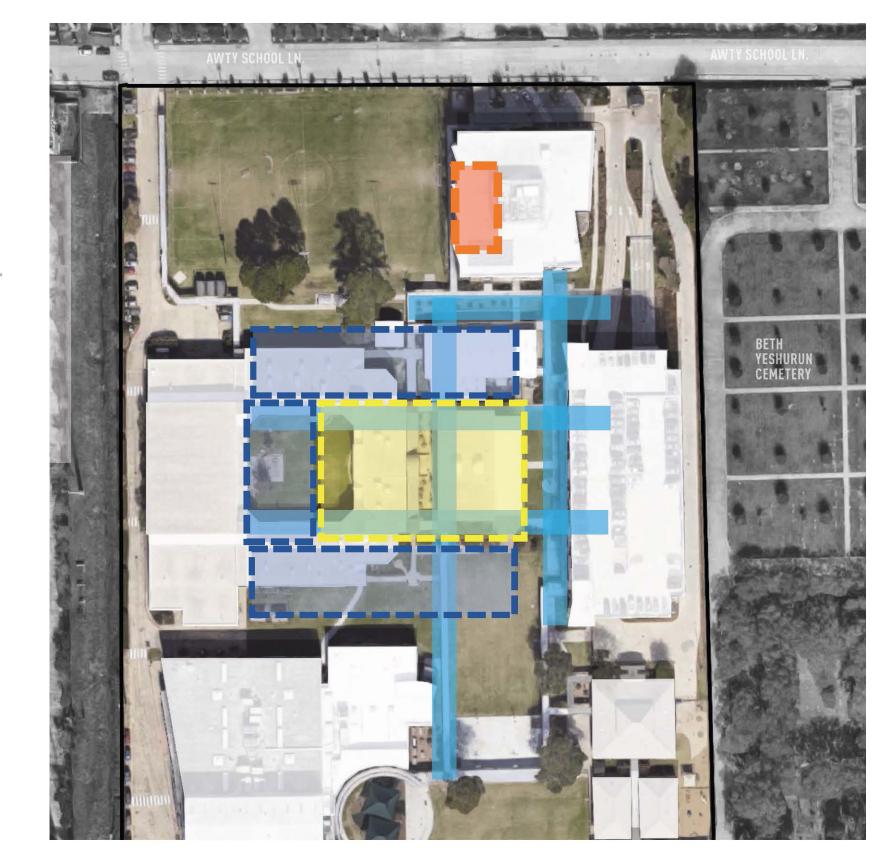
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- Development Zone Must Be Shaped By Outdoor Learning Spaces & Connections



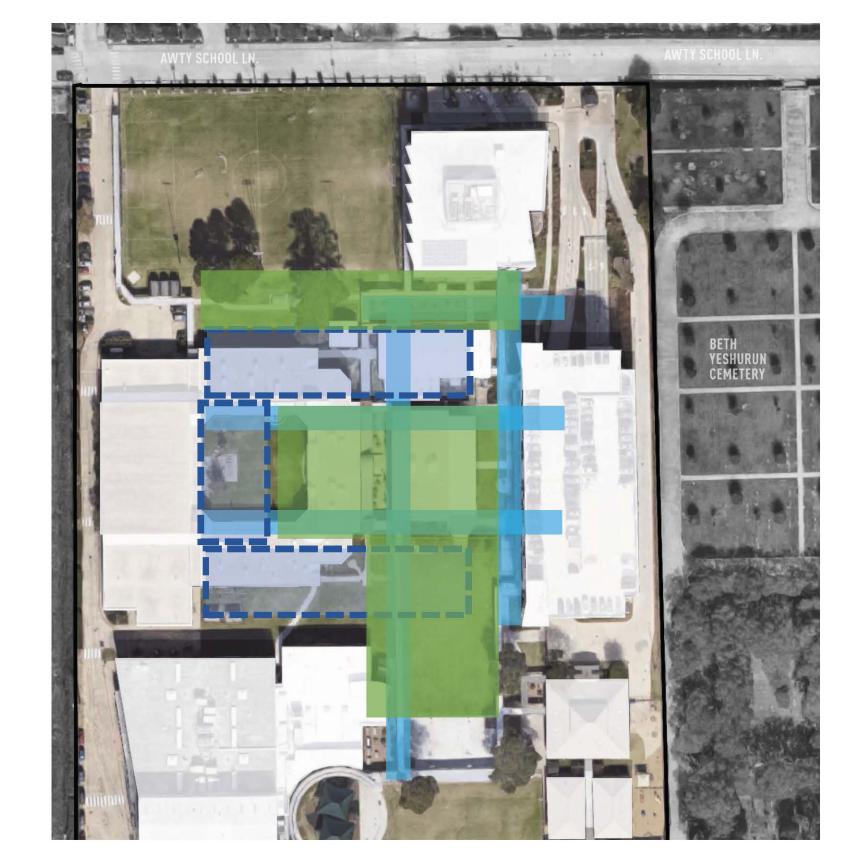
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- From There We Proposed a Development Zone
- Development Zone Must Be Shaped By Outdoor Learning Spaces & Connections
- This Forms a True 'Heart of Campus'
- Taller Structures To Open The Outdoors
- Everything Comes Back to Enhancing the Outdoor Experience











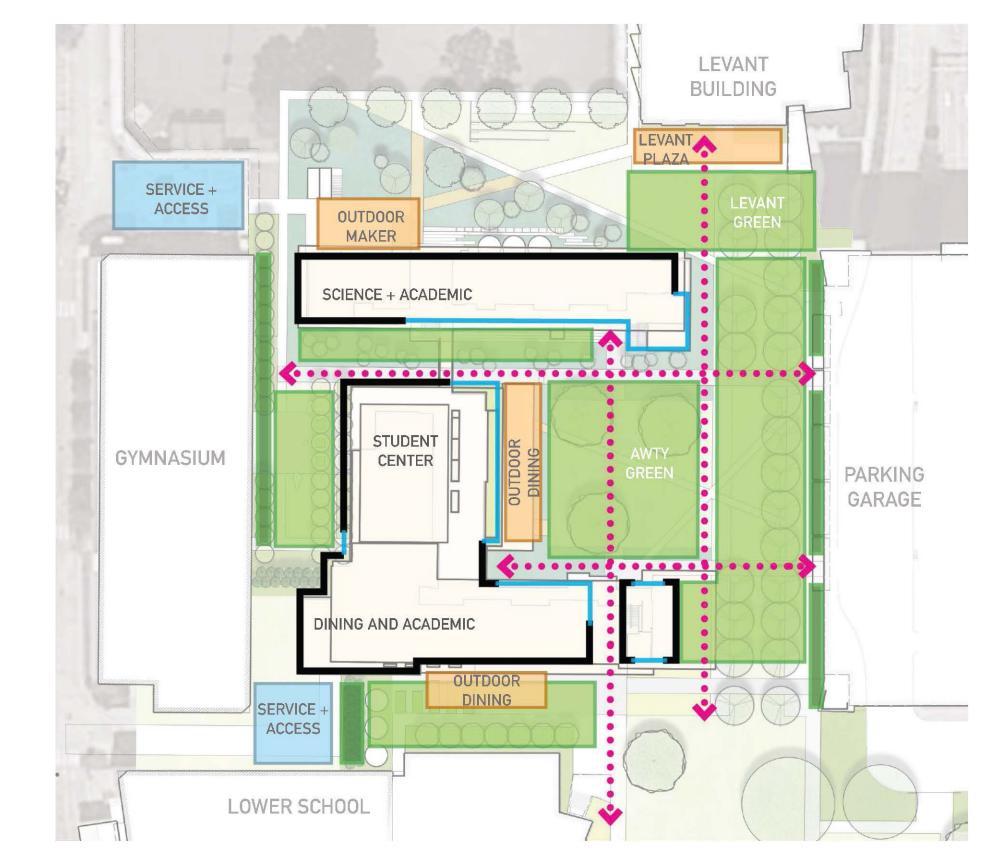
WHAT WAS OUR NEXT STEP?



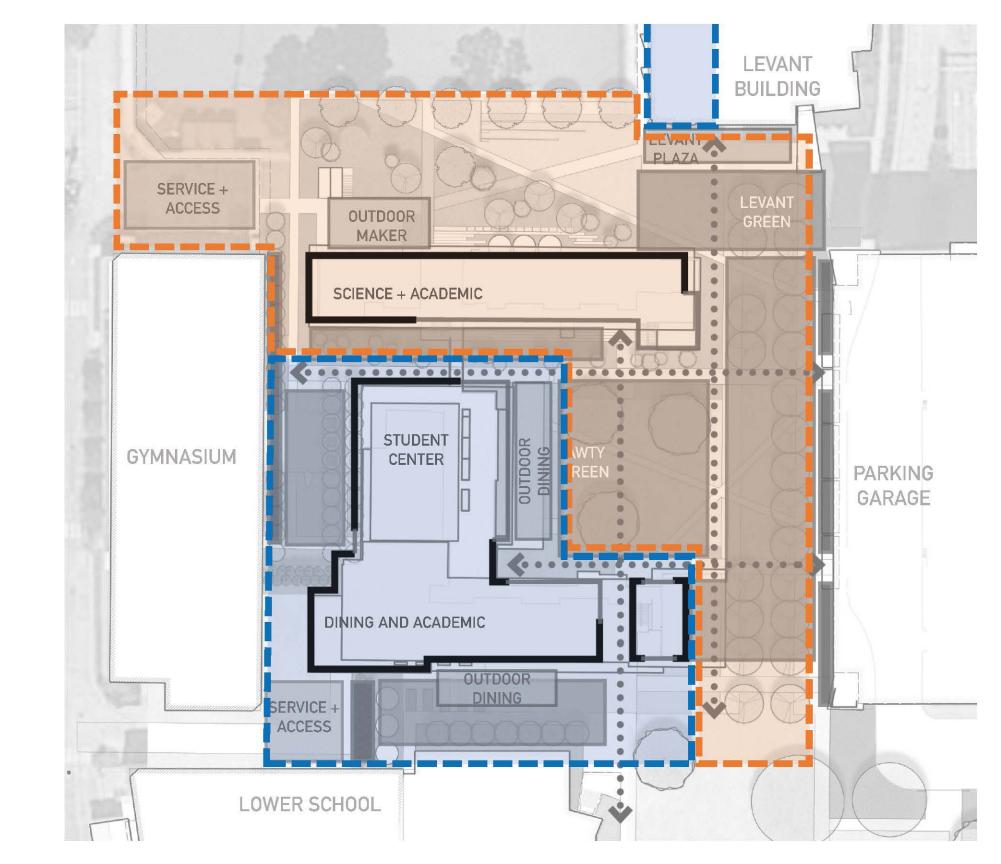




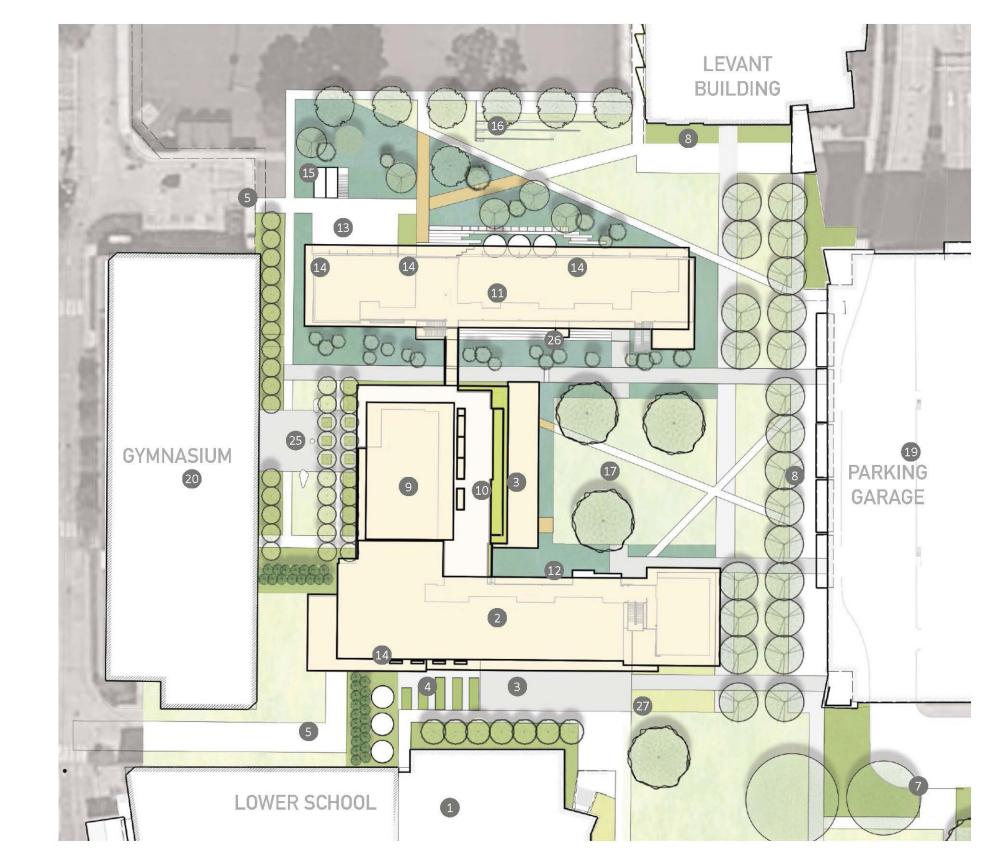
Develop the Outdoor Concept First!



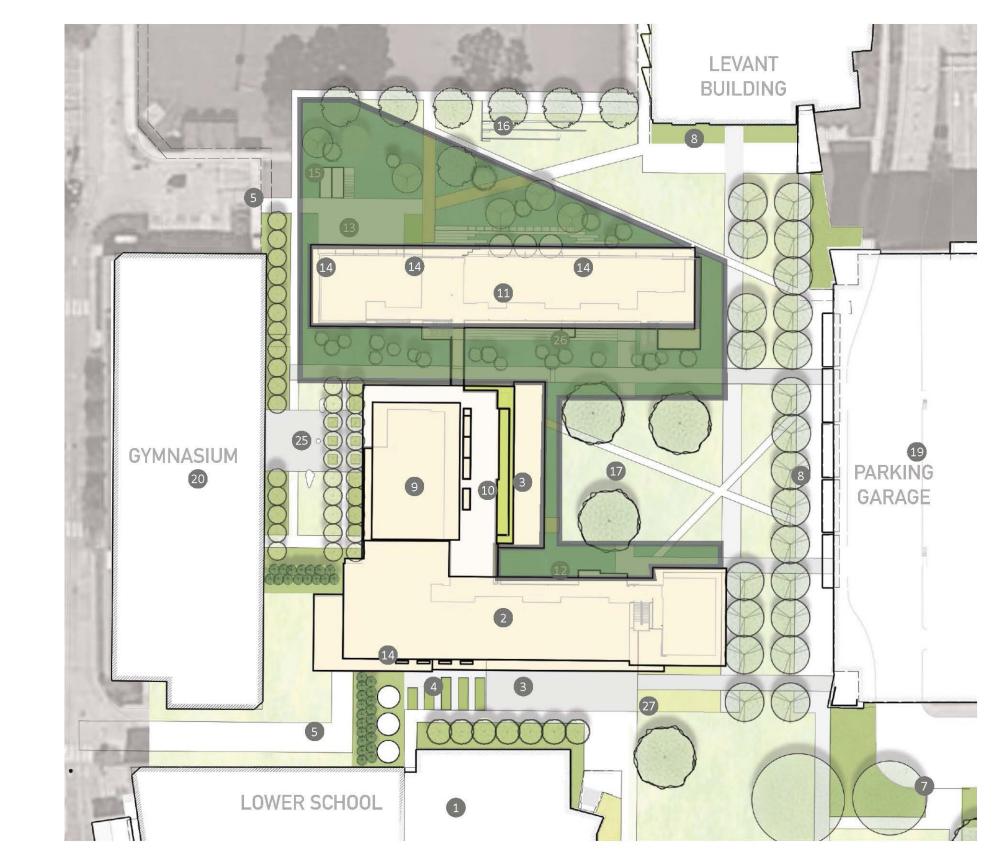
- Develop the Outdoor Concept First!
- This Then Crucially Informs the Area
 For Architecture



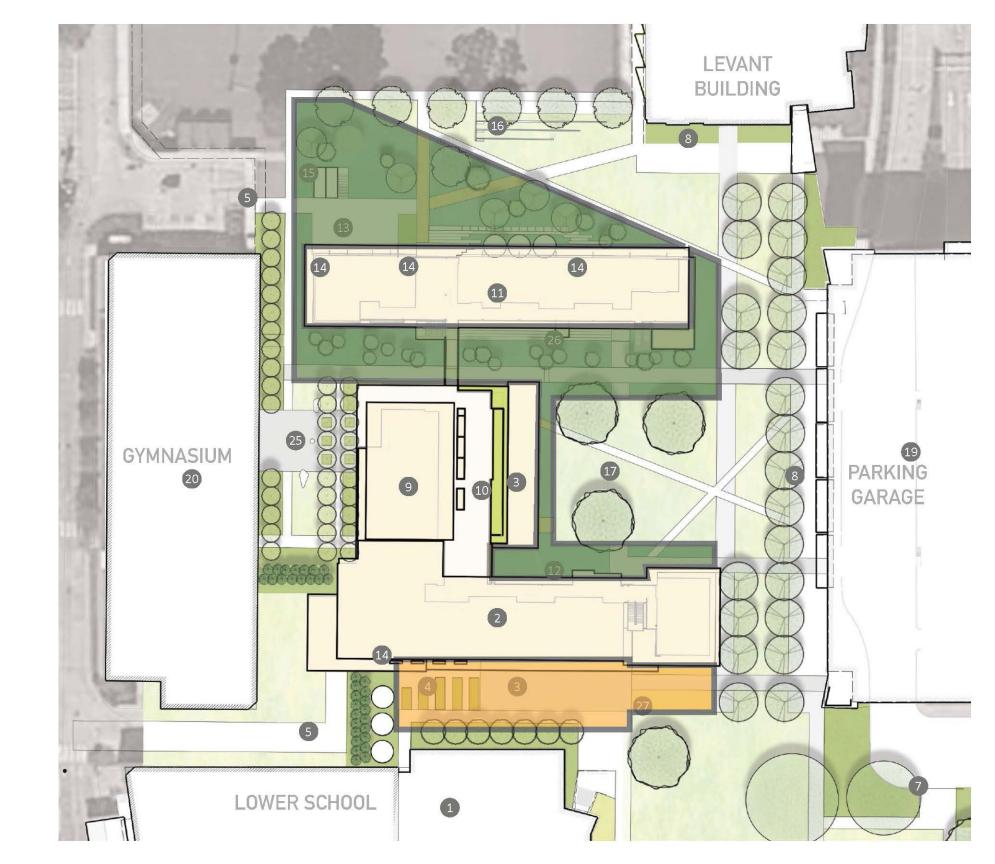
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- The End Result is Cohesive and Collaborative Play Between Indoors & Outdoors



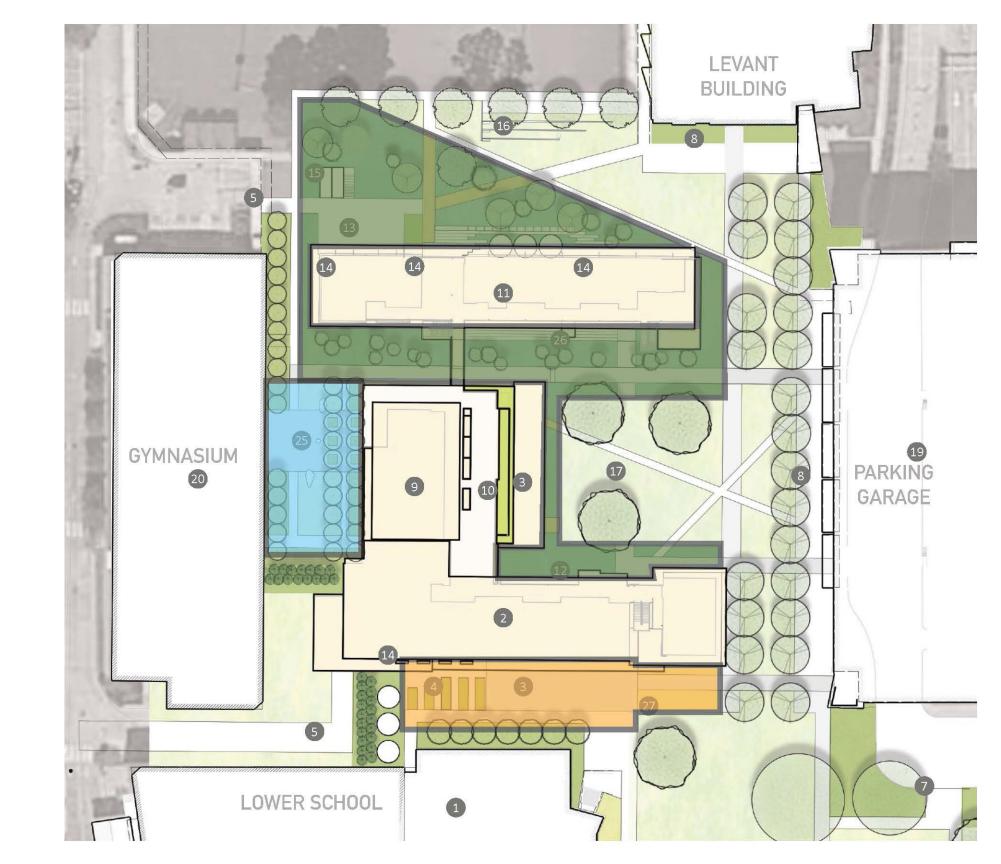
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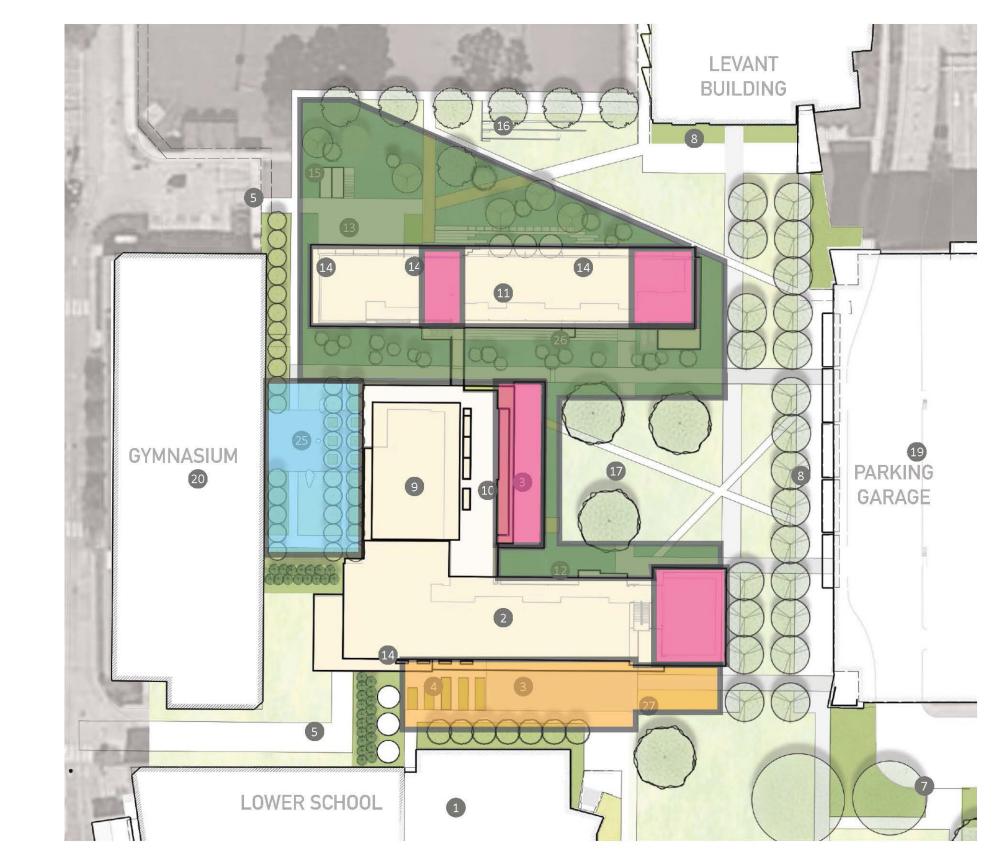
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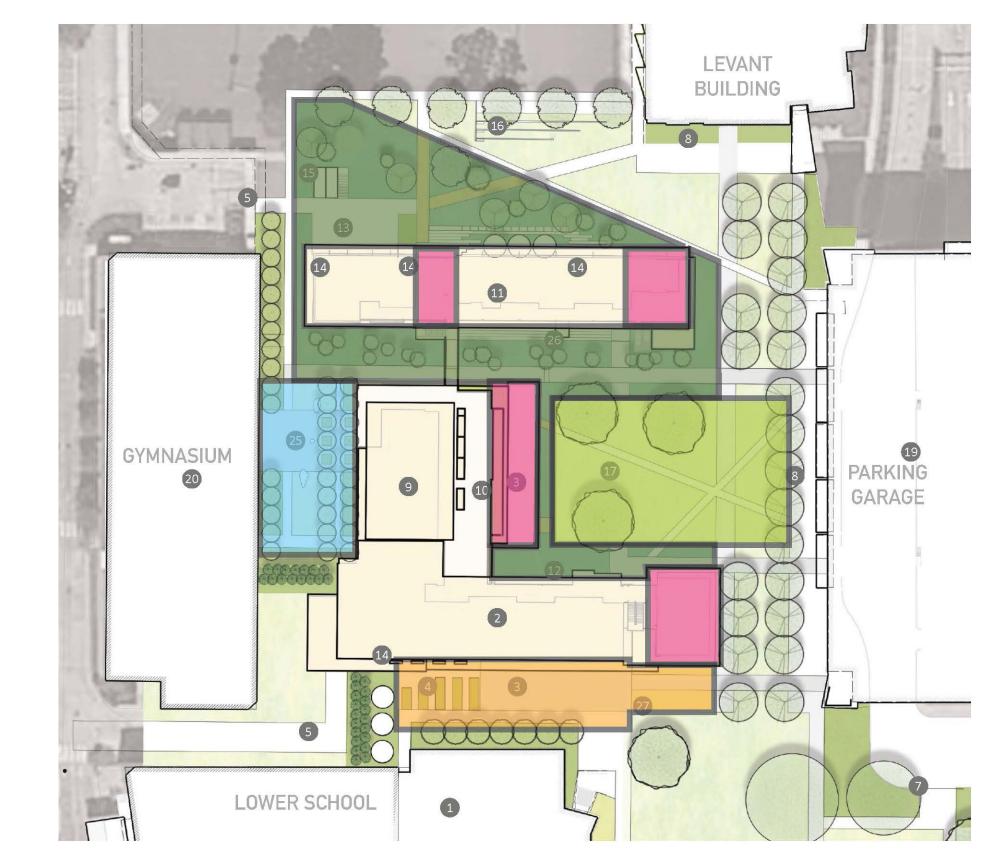
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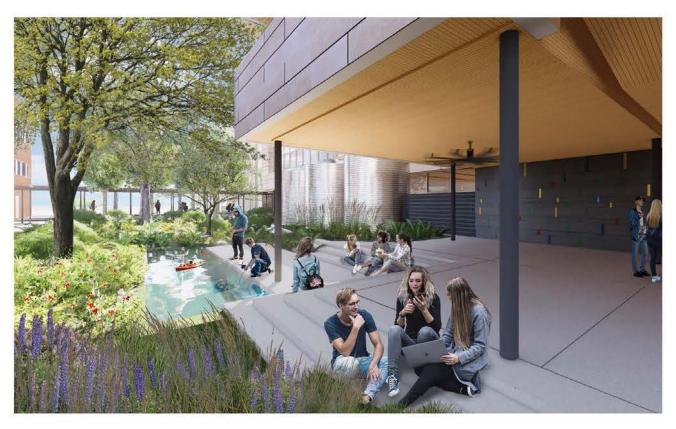


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FUNDING OPPORTUNITIES







Thank You!

Please scan the QR code to provide session feedback.



