





**Dr. Tony Lake**

**Superintendent  
of Schools**

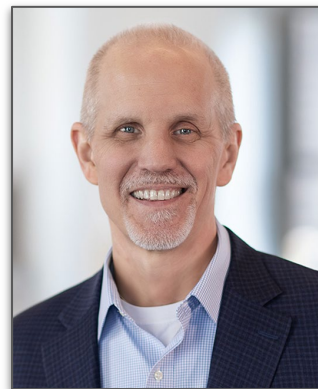
Lindbergh Schools  
*St. Louis, MO*



**Dr. Tara Sparks**

**Chief Academic  
Officer**

Lindbergh Schools  
*St. Louis, MO*



**Steve Turckes**

**Principal,  
Managing Principal**

Perkins&Will  
*Chicago, IL*



**Nick Perry**

**Associate Principal,  
Senior Project Manager**

Perkins&Will  
*Chicago, IL*



# Learning Objectives

1. **Facilitate Impactful Community Visioning:** Attendees will learn how to lead a community-based visioning process that engages diverse stakeholders to uncover unique institutional needs and establish a credible, shared long-range goal.
2. **Design for Place-Based Learning:** Participants will be able to articulate the impact of specialized learning environments on teaching and learning by examining how specific facilities support authentic, place-based curricular experiences.
3. **Space Design for Pedagogy:** Attendees will demonstrate the ability to translate educational programming into functional and flexible learning facility design which encourages interaction and gives equitable access to a diverse range of users.
4. **Ecology, Sustainability, and Wellness to support teaching and learning:** Participants will discover how design of the site and building support the District's mission through lenses of ecology of site, resiliency, sustainable design, and physical/social/emotional well-being of occupants.





# About Lindbergh Schools

- More than 7,600 students, grades Pre-K through 12
- 12 campuses:
  - 1 high school
  - 2 middle schools
  - 6 elementary schools
  - 1 elementary gifted education center
  - 2 early childhood education centers
- 8 National Schools of Character
- 6 National Blue Ribbon Schools of Excellence



**Lindbergh**Schools



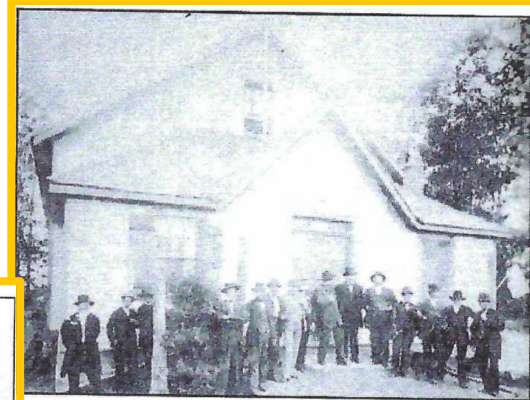
# A Seed of an Idea

- Concord Farmers Club for Sale
- Cabinet and Board Conversations
- Upcoming No-Tax-Rate-Increase Bond Issue Proposition for Facility and Instructional Space Improvements

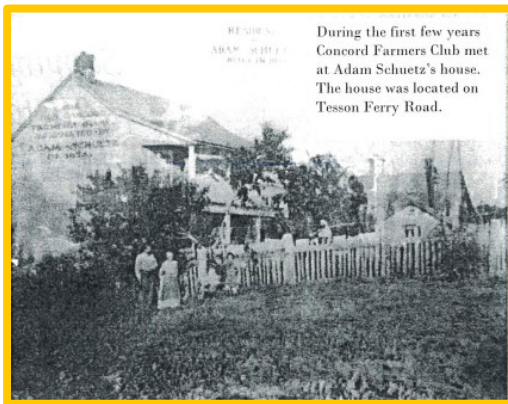


**Lindbergh**Schools





First building of Concord Farmers' Club.



During the first few years Concord Farmers Club met at Adam Schuetz's house. The house was located on Tesson Ferry Road.

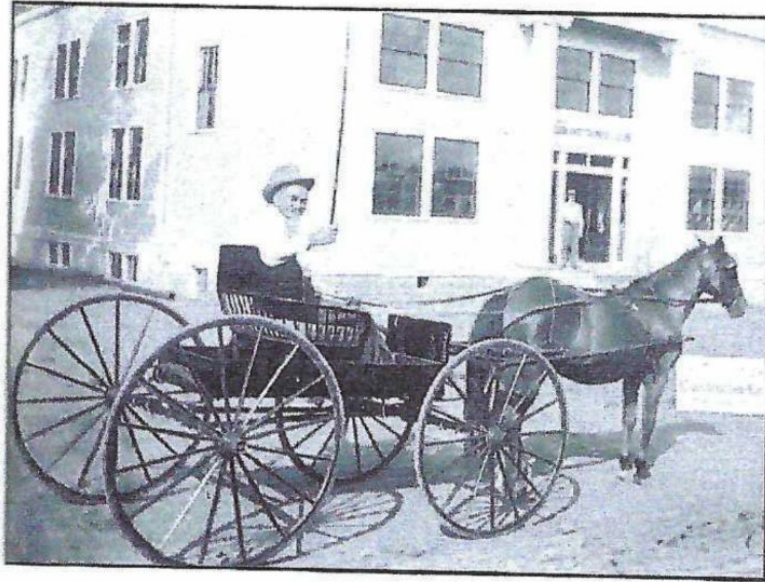


Henry Aff, Louis Helm, Henry Schaper, Christian Schroeder, August Creelius, Robert C. Wohlschlaeger-1908

## Concord Farmers Club, Est. 1873



## Concord Farmers Club, Est. 1873



1908, Adam Schuetz in front of Concord Farmers' Club.





# Community Engagement

Foundation Breakfast  
+ Listening and Learning  
= **So Much Interest**



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# Seeking Industry Voices



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# Partnership Opportunities

- Endowment supporting annual operations on the farm
- Human resources, skilled support
- Capital improvements to create a green building that supports student learning
- Student learning experiences
- Community partnerships



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# Lindbergh Farmers Club

*Cultivating Curiosity. Growing Minds. Harvesting Potential.*



[go.lindberghschools.ws/farmersclub](https://go.lindberghschools.ws/farmersclub)  
Lindbergh Farmers Club  
@LindberghFarmersClub

## Farmers Club Sponsor Levels

Your gift to the Farmers Club will allow us to provide students of all ages with authentic, outdoor real-world learning opportunities.



**LEGACY:** Lifetime  
\$1 million and above

**PROSPERITY:** 10 years\*  
\$250,000 – \$999,999

- Logo or name displayed on donor wall & in specific location upon request
- Quarterly newsletter updates from students
- Access to students & staff for instructional opportunities
- Tickets to Lindbergh Schools Foundation Community Breakfast
- Access to students & families to promote your organization's programs and services
- Access to farm for your organization's communication & promotional efforts



**HARVEST:** 5 years\*  
\$100,000 – \$249,999

**CULTIVATOR:** 5 years\*  
\$10,000 – \$99,999

- Logo or name displayed on donor wall
- Quarterly newsletter updates from students
- Access to students & staff for instructional opportunities
- Tickets to Lindbergh Schools Foundation Community Breakfast
- Access to students & families to promote your organization's programs and services (*Harvest\* only*)
- Access to farm for your organization's communication & promotional efforts



**PIONEER:** 3 years\*  
\$500 – \$9,999

- Name displayed on donor wall
- Quarterly newsletter updates from students



\*With first right of refusal for renewal

# Explore Precedents

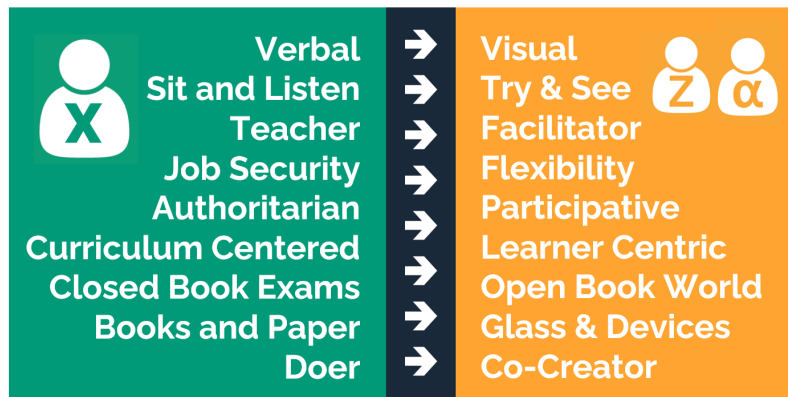


**Tucson Village Farm**  
Tucson, AZ

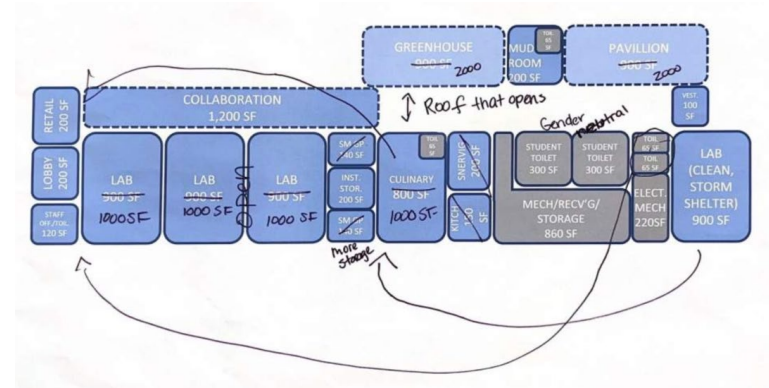
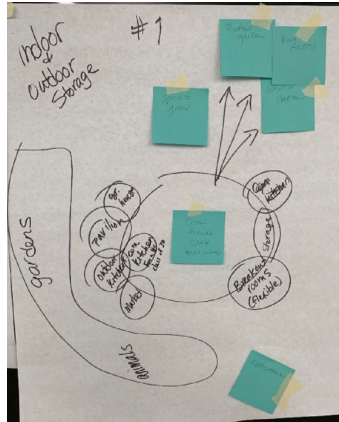
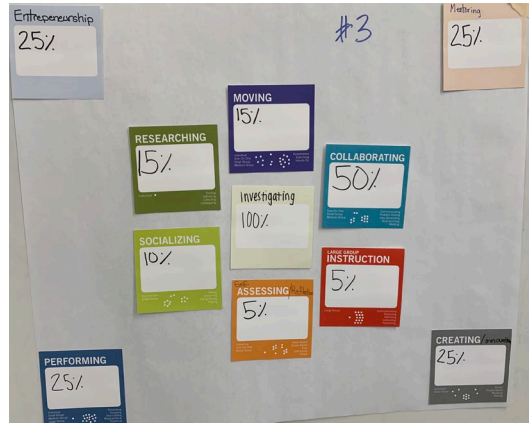


# Visioning Together

## Designing the Student Experience



# Planning Together



# Developing the Experiences

- Programmatic Design: January 2023
- Prop R: April 2024
- Visioning Session - Why: April 2024
- Visioning Session - Experiences: June 2024
- Place-Based Learning Experiences: Sept. 2024
- Schematic Design: October 2024
- Building design: January 2025
- Hire Onsite Educator and Farm Manager: Spring 2026
- Building Completion and Soft Opening: February 2027
- Grand Opening: Fall 2027

CMAR: **BSI**

Architect: **Perkins & Will**



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## Original Mission:

"The object shall be mutual benevolence and the improvement of its members in everything pertaining to agriculture, horticulture, and domestic economy."

Constitution Article 2  
Concord Farmers Club  
of Carondelet Township  
St. Louis County, Missouri  
July 14, 1883

## Our Vision:

"Inspiring students through sustainable agriculture, environmental stewardship, and community connections."

Lindbergh Farmers Club  
St. Louis County, Missouri  
April 25, 2024



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# Welcome to the Farm!

**Our Focus:** Outdoor, hands-in-the-dirt learning experiences that cannot be found in the classroom

**Our Learning Spaces:** Outdoor growing spaces, a greenhouse, and a covered pavilion to support outdoor learning and gathering. Flexible lab spaces, a kitchen and a student-managed store.

**A Living Building on a Working Farm:** The building and site design are deeply considerate of ecology and sustainability.



# Place-Based Learning



## Agriculture

Kindergarten: Life Cycles with hatching chickens and harvesting seeds



## AgTech

Tech and Engineering: Integration of Geographic Information Systems (GIS) and drone technology



## Sustainability

Fourth Grade: Green energy analyzing building and design



## Entrepreneurship

Business and Marketing: Student-run market and event planning



## Humanities

7th Grade: Farmers Club  
Genealogy





# A Typical Day on the Farm

- **3rd graders** are installing the native plants garden they designed at school with a conservationist from the Missouri Botanical Garden.
- **6th graders** are curating a museum of the history of the community and the Farmers Club
- **High school students** are running a harvest market, conducting plant science research, and inspecting the precision farming system they installed last Spring.



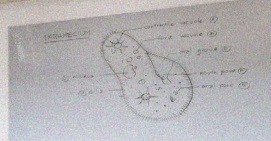
**Lindbergh**Schools



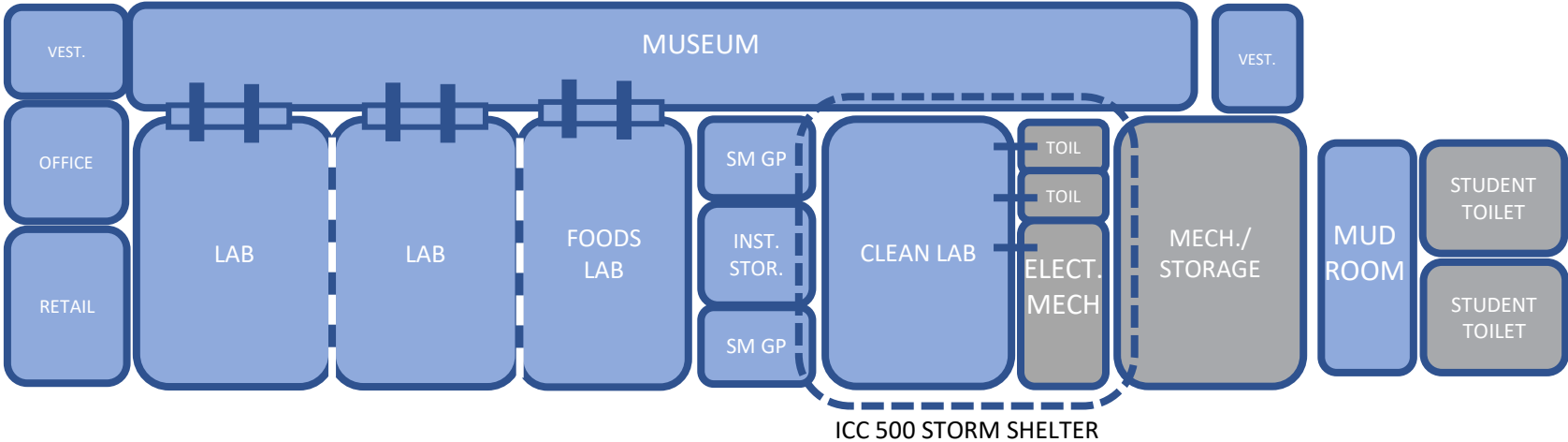




parts of a plant

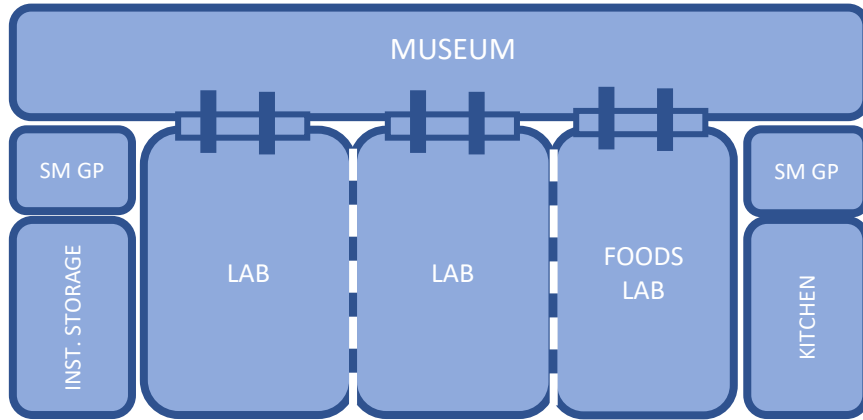


# Learning Environment Design – The Flexible Lab



Conceptual Planning Diagram

# Learning Environment Design – The Flexible Lab



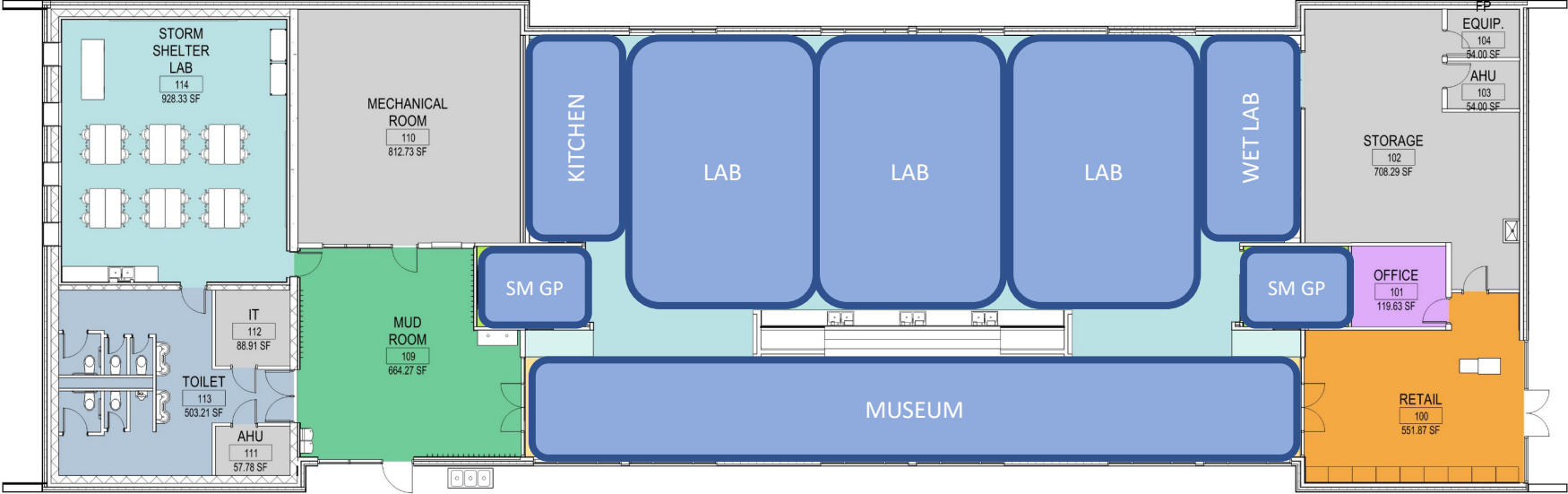
Refined Planning Diagram – Core Lab Area

## The Lab Module



- 24 seats, movable tables
- Multi-use: "dirty" lab, lecture, groups, events
- Access to power, sinks
- Supplies at the ready
- AV Technology

# Learning Environment Design – The Flexible Lab

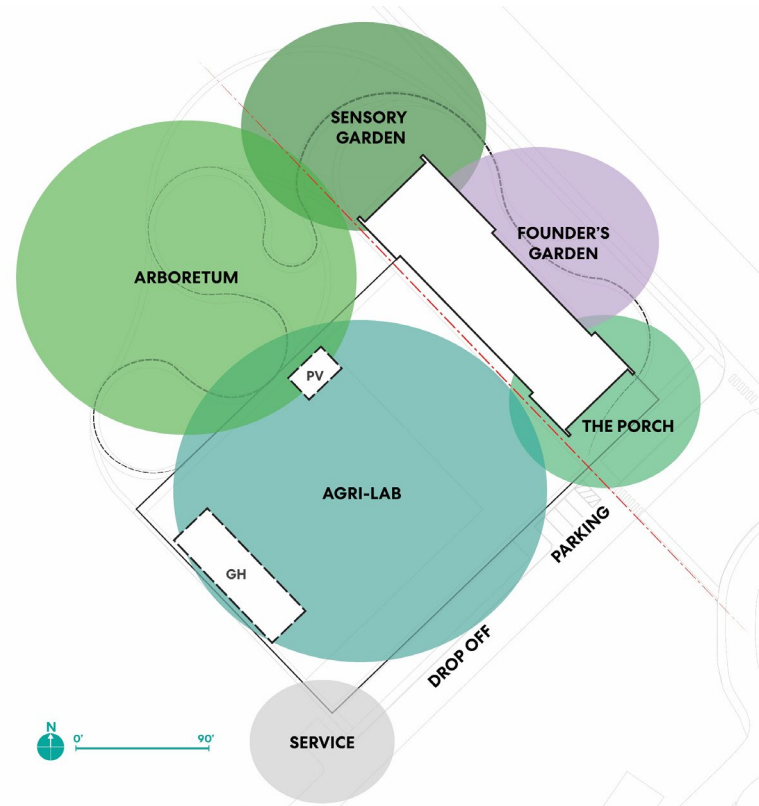


Final Floor Plan

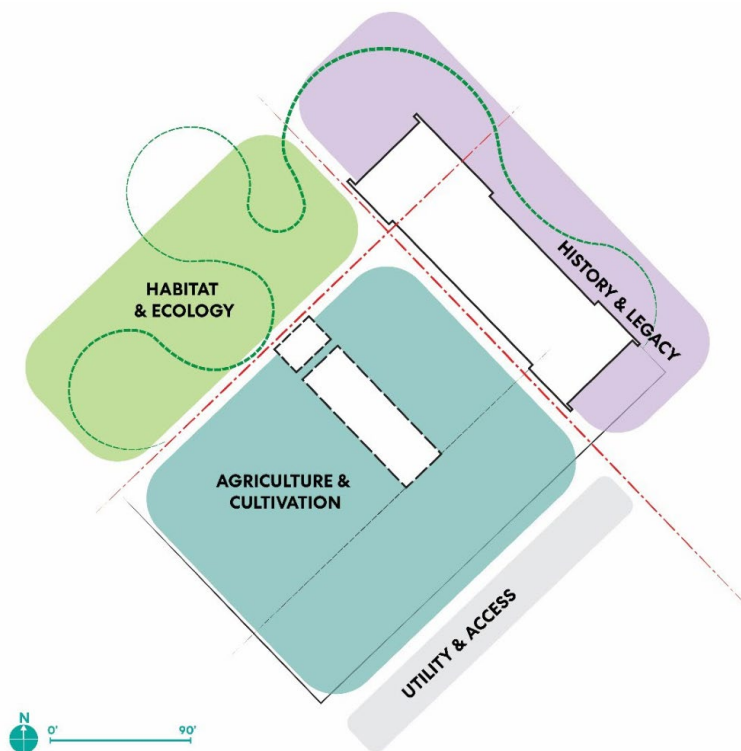




# A Landscape Framework to Grow Into

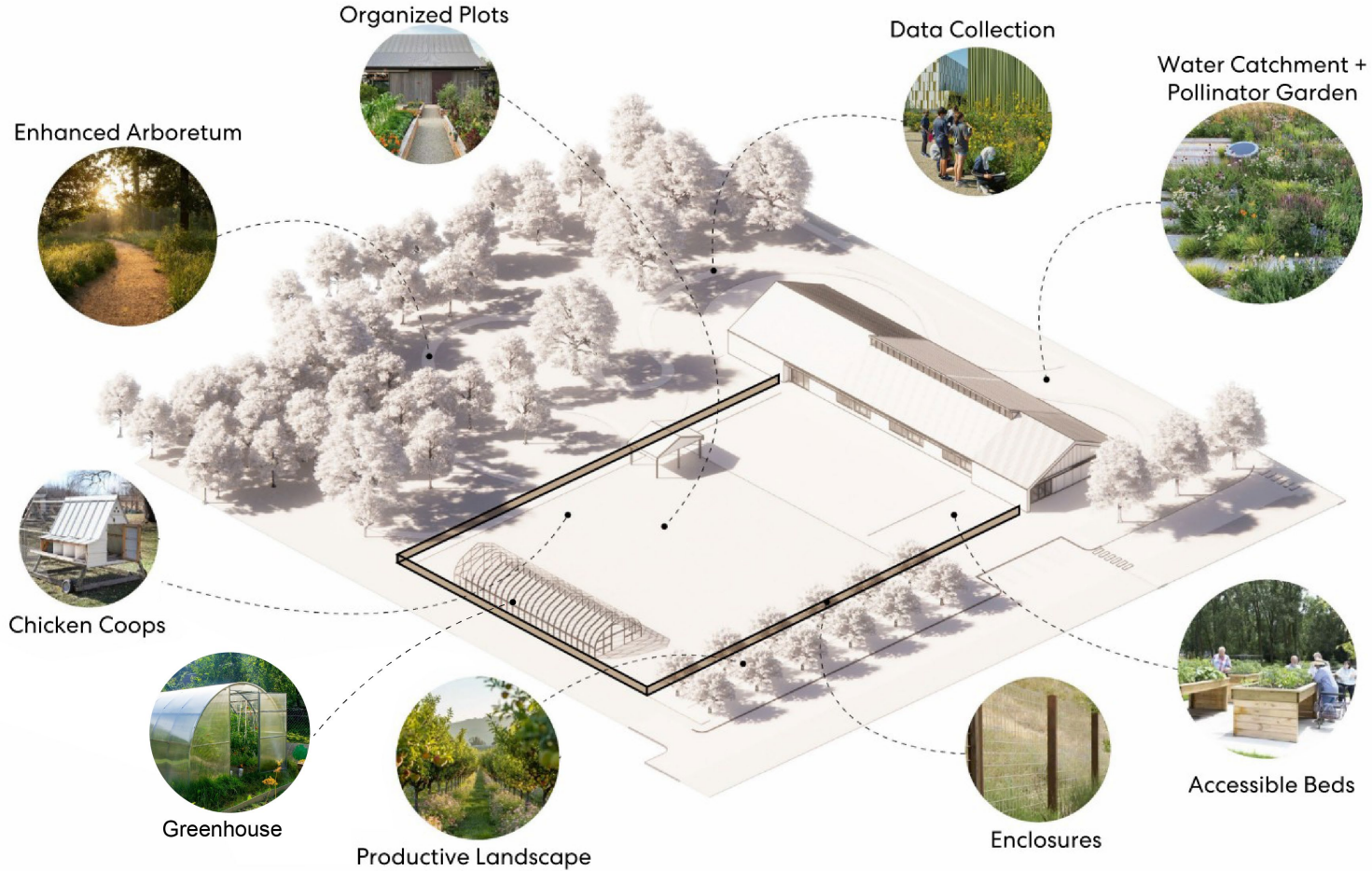


Curriculum & Program Zoning



Site Organization Framework

# Endless Outdoor Learning Opportunities









# Ecology and Sustainability

A Lens for Exploring



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## Ecology

**Supporting the natural environment and species, including human health & well-being**

Use of **healthy materials**

Use of Forest Stewardship Council (**FSC**) **Certified wood** which supports sustainable forestry and biodiversity

**Access to natural light and views** in learning spaces

**Quality thermal comfort**

**Quality acoustics** improve academic performance, productivity, and student behavior

## Sustainability

**Protecting the environment through conservation and sustainable practices**

Building materials with **low embodied carbon** and **low global warming potential** (GWP)

Building with **renewable resources** (like wood) and **materials that can be recycled** at the end of their useful life

Select material products made with **recycled content**

## Energy Use

**A high performing building with efficient use of energy**

Employment of **passive solar design strategies** which can be used as a teaching element (shading, overhangs, and clerestory windows).

Geothermal HVAC System

Efficient Building Envelope

Energy Star appliances

No fossil fuels used on site

## Water Use

**Conservation and preservation of the natural water cycle**

Rainwater Harvesting System

Efficient plumbing fixtures

Water Sense appliances

Bioswale stormwater control

On-site stormwater detention limits localized flooding

Preserve naturally occurring “sink hole” on site



High performance wall  
and roof assemblies



Bio-swales  
and Raingarden



Pollinator  
Garden



Daylight



PV Ready Roof



Ecological restoration  
of surrounding site



Agricultural  
Educational  
plots



Museum Space  
to reconnect  
with agrarian heritage



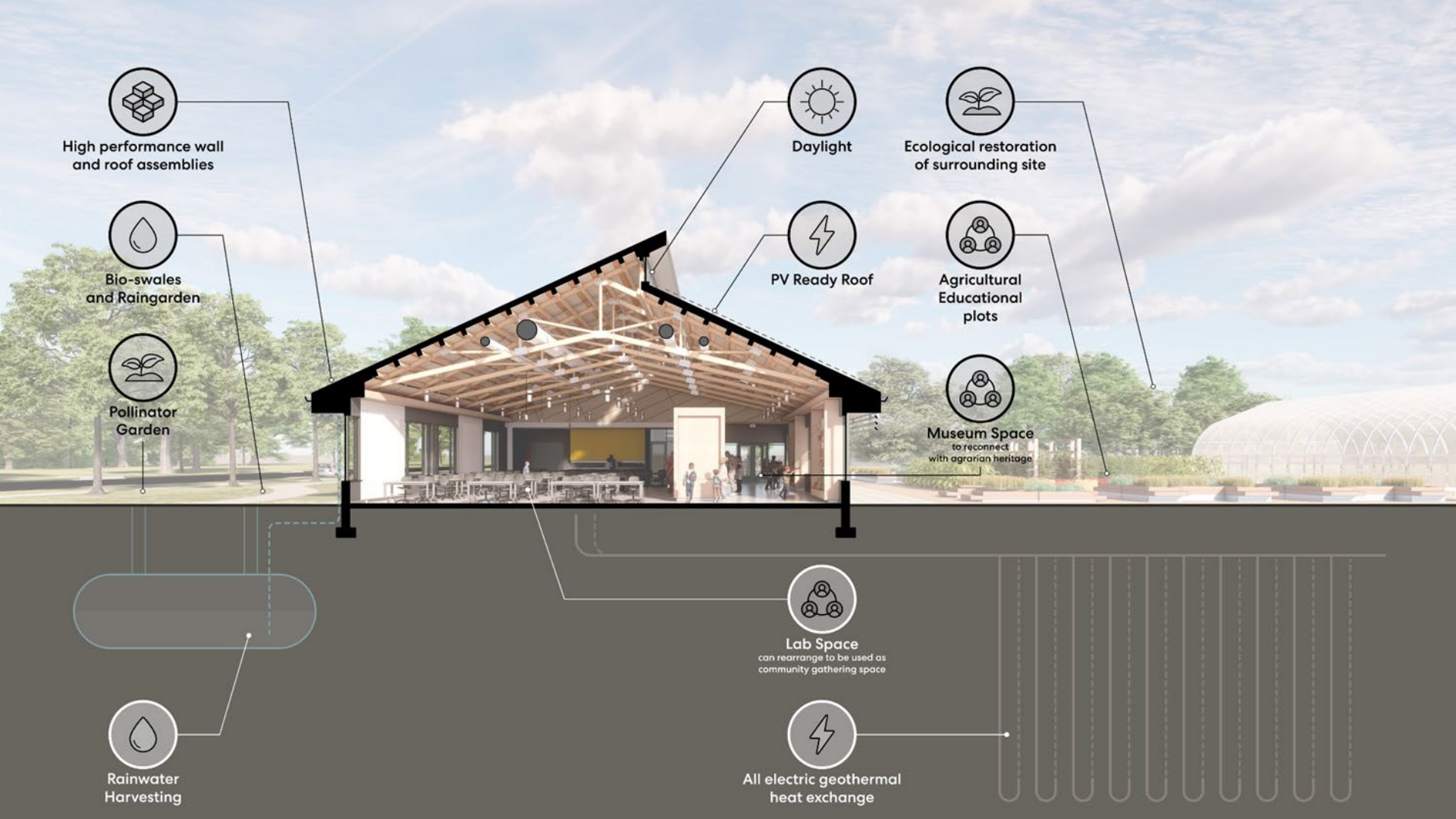
Lab Space  
can rearrange to be used as  
community gathering space



All electric geothermal  
heat exchange



Rainwater  
Harvesting



Ecology & Sustainability – Embodied Carbon

270 kg CO<sub>2</sub>e/m<sup>2</sup>

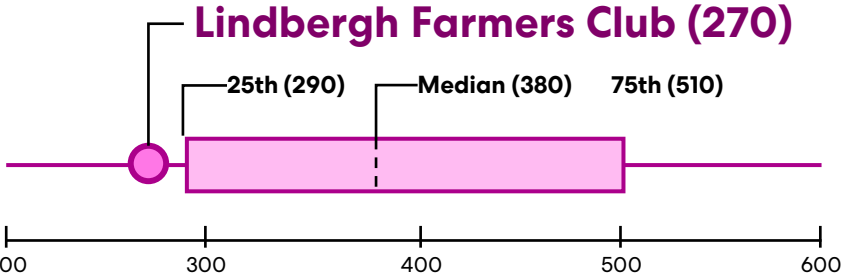
33%

Below Typical  
K12 School  
CLF EC Budget

CLF Embodied Carbon Budget (K12)

| Low | Typical | High |
|-----|---------|------|
| 290 | 380     | 510  |

Embodied Carbon LCA (Product Stages A1-A3)



Carbon Leadership Forum Benchmarking for K12 Schools - GWP (kgCO<sub>2</sub>e)  
Product Stages A1-A3 - 2025 EC Benchmark Report

## Ecology & Sustainability – Student Experiences

Middle School - 8th grade Earth science teaches sustainability: presentations of student-designed sustainability.



High School - Biology, Chemistry, and Environmental Science classes use diagrams, visual models, and illustrations to trace carbon flow through ecosystems, plant photosynthesis, soil, and the atmosphere.

## Ecology & Sustainability – Energy / Water

**85,000** gal/yr savings  
**9,000** gallon cistern

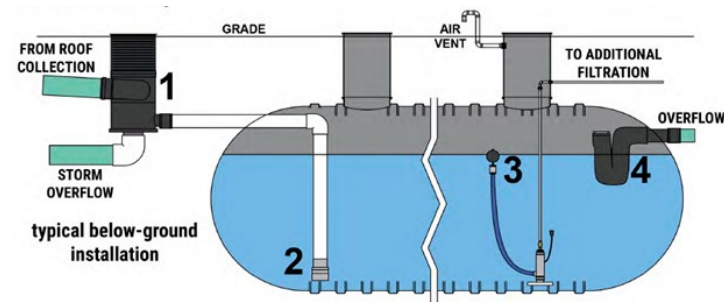
**38%**  
Demand offset

### Water Use Reduction

**25** Design EUI  
**114** Baseline EUI

**78%**  
Reduction

### Energy Performance



Rainwater Harvesting System

### EUI Benchmarking for K12 School

| Poor | Average | Minimum | Good | Excellent |
|------|---------|---------|------|-----------|
| 95+  | 71      | 40      | 33   | 25        |

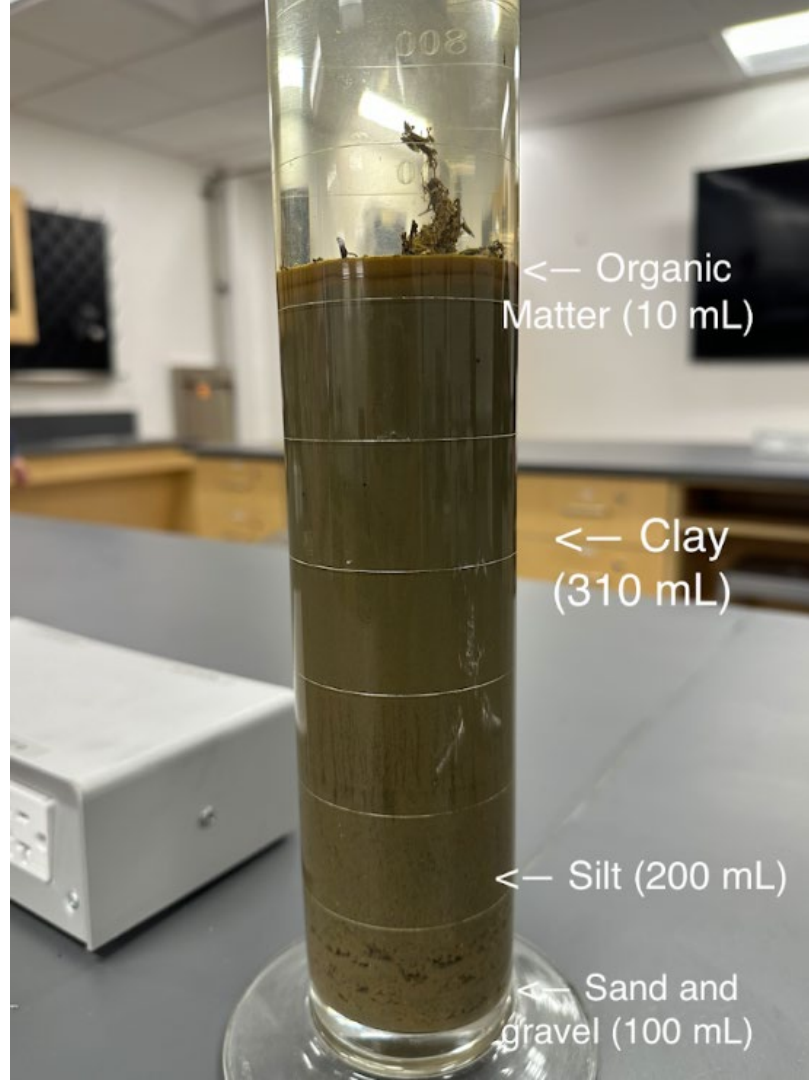
## Ecology & Sustainability – Building Performance on Display



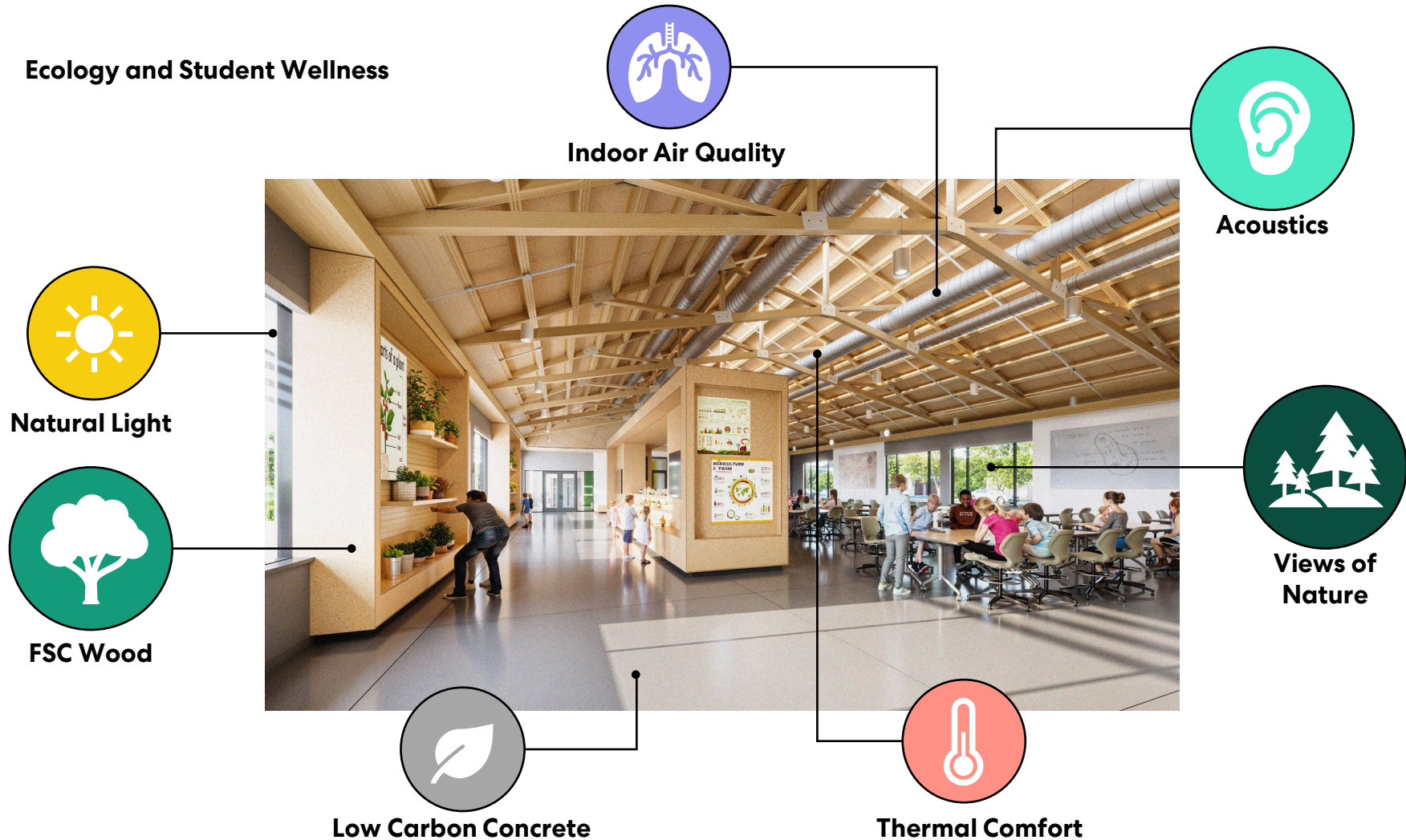
## Ecology & Sustainability – Student Experiences

Elementary - 4th Grade Science *The Power of Water* unit

In Development – Introducing 7th grade students to biodiesel and integrating making biodiesel to power a shuttle bus to the Farmers Club.



## Ecology and Student Wellness



# Four Corners Discussion

What place-based learning experiences do you guarantee?

What work force opportunities exist in your community?

How do you design for real-world learning experiences?

How do you think differently about learning spaces and facilities for authentic use?

