

# Ohio: A State-Sponsored School Building Transformation Story

**Dr Frank Locker**

Frank Locker Educational Planning

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Ohio Facilities Construction Commission

Association 4 Learning Environments Chicago 2018



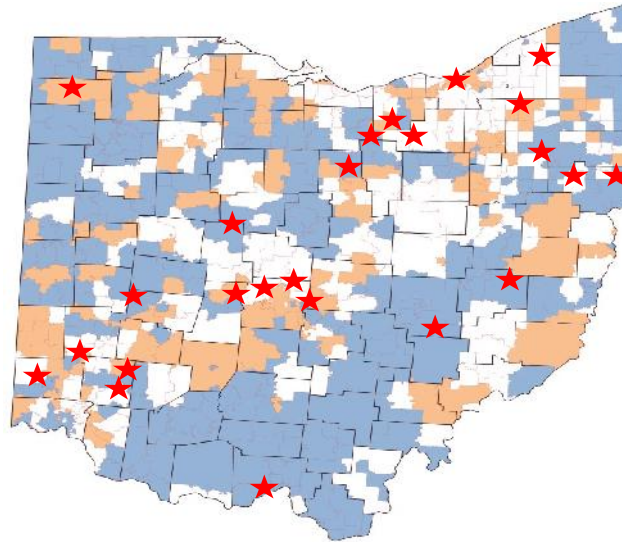
## Introduction

- Ohio Results
  - \$12 Billion State Funding
  - 323 LEED Certified Schools
  - 1,193 New or Renovated Schools
  - Over 630,000 students served



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## Ohio Results



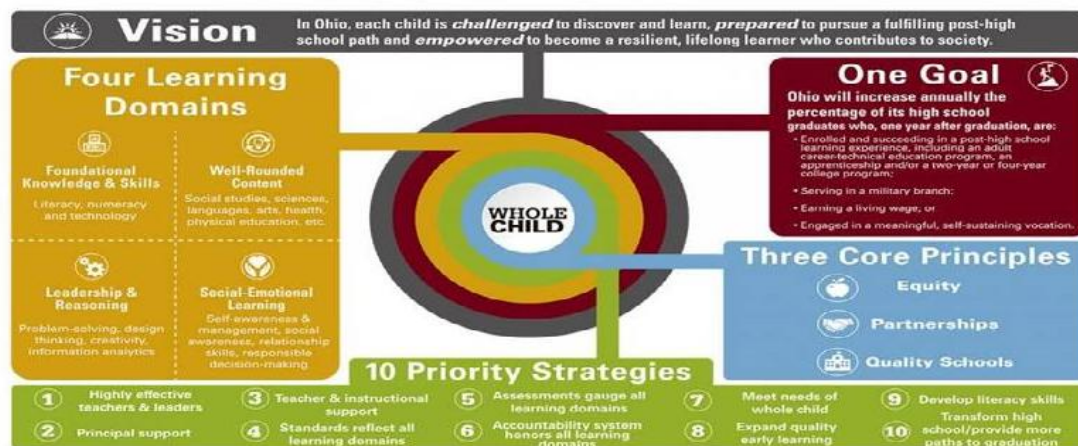
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## Ohio Department of Education

### Each Child, Our Future

*In Ohio, each child is challenged, prepared and empowered.*



Ohio's Strategic Plan for Education: 2019-2024



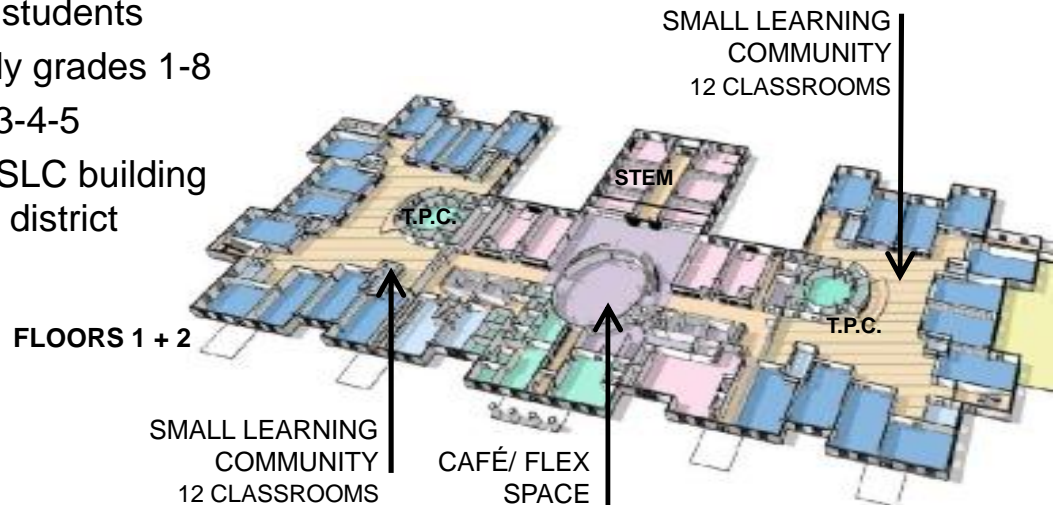
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## Health Safety + Welfare

### STORY #1: NEW ALBANY 3-4-5 SCHOOL

- 1200 students
- Initially grades 1-8
- Now 3-4-5
- Only SLC building in the district



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## Health Safety + Welfare

### STORY #1: NEW ALBANY 3-4-5 SCHOOL

- Empowers self directed student learning
- Creates community at multiple levels
- Supports choice + innovation, not compliance



Moody Nolan Architects



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## Health Safety + Welfare

STORY #1: NEW ALBANY 3-4-5 SCHOOL



Moody Nolan Architects



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## Health Safety + Welfare

STORY #1: NEW ALBANY 3-4-5 SCHOOL



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## Health Safety + Welfare

### STORY #1: NEW ALBANY 3-4-5 SCHOOL



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## Health Safety + Welfare

### STORY #1: NEW ALBANY 3-4-5 SCHOOL

- What former teachers say:
  - We were part of a community before
  - We knew intuitively what other teachers were doing
  - We easily knew where to turn for help
  - We knew (other teachers') kids and their siblings and friends
  - Not any more
  - We feel isolated
- What former students say:
  - I only know my class
  - So my class becomes very important
  - I used to know lots more

Interviews conducted w/ Ohio Dept Education



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## Health Safety + Welfare

### STORY #1: NEW ALBANY 3-4-5 SCHOOL

- HS+W lasting lessons:

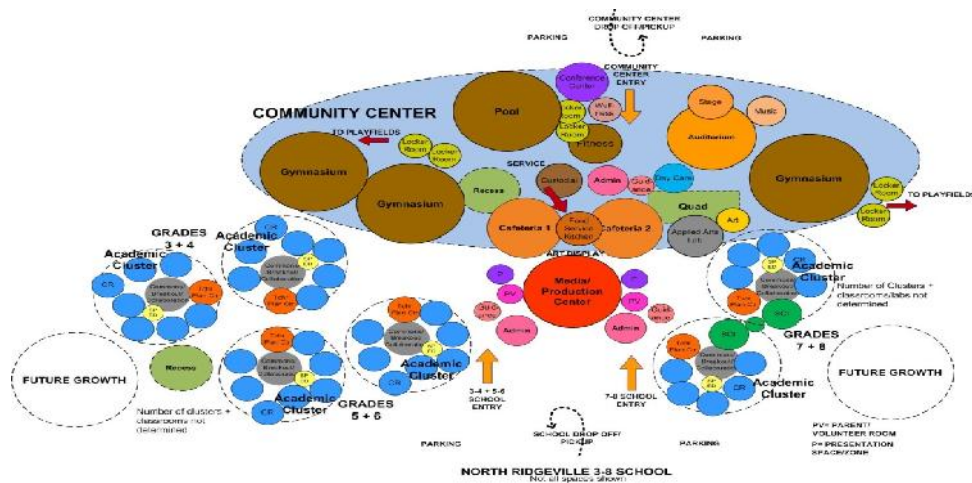
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## Health Safety + Welfare

### STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER



ThenDesign Architecture

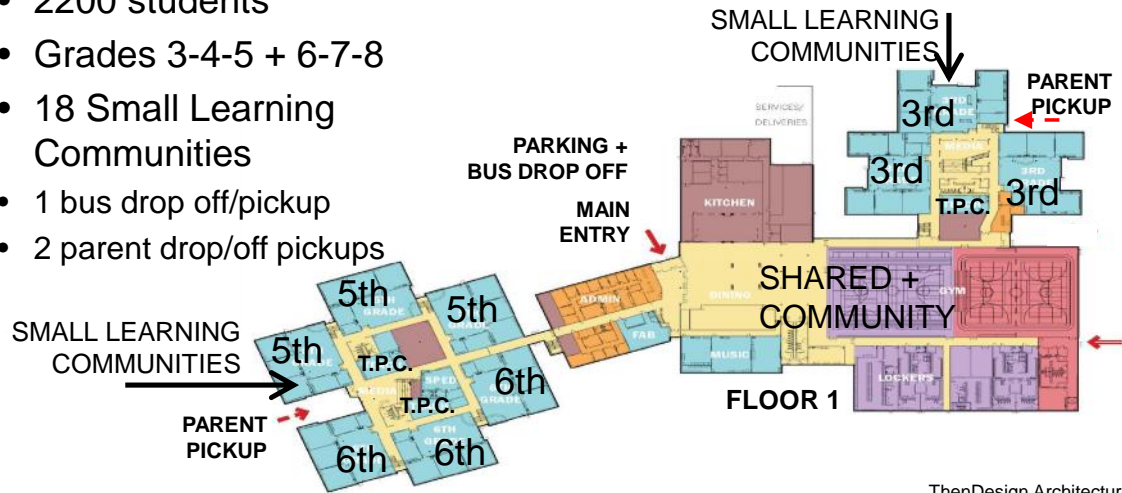


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## Health Safety + Welfare

### STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER

- 2200 students
- Grades 3-4-5 + 6-7-8
- 18 Small Learning Communities
- 1 bus drop off/pickup
- 2 parent drop/off pickups



ThenDesign Architecture

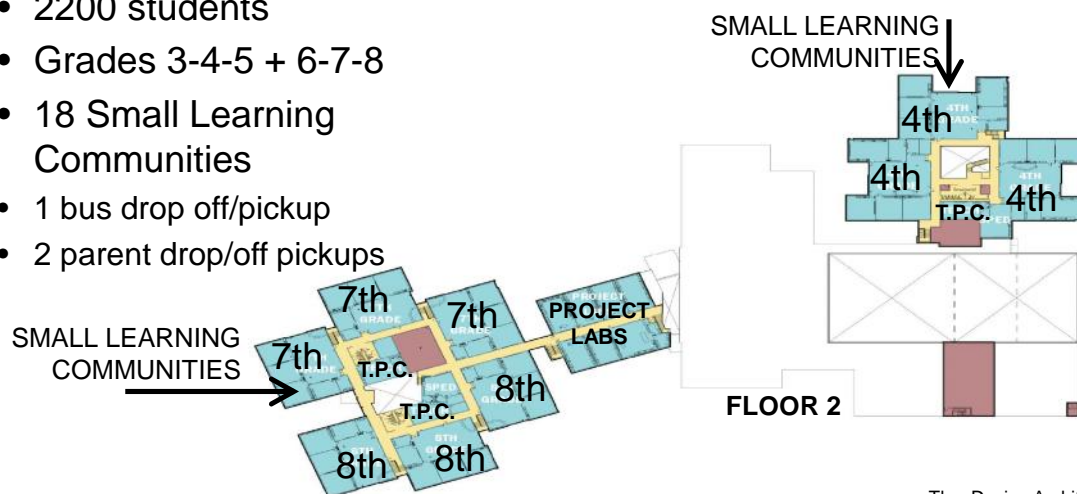


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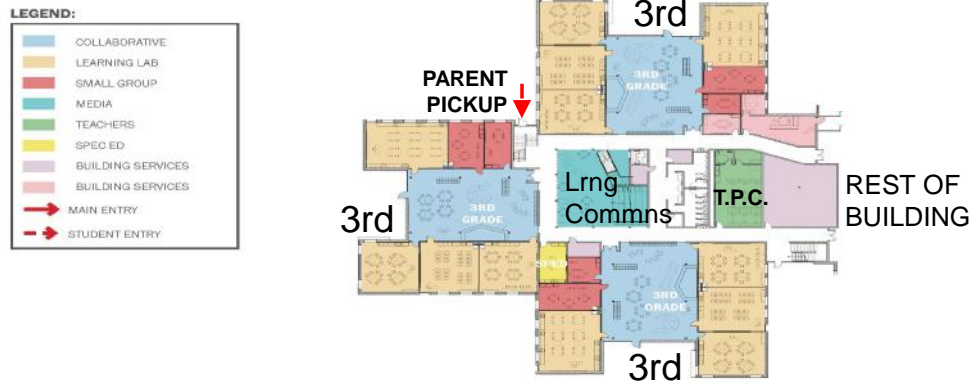
ThenDesign Architecture



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## Health Safety + Welfare

### STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER



NORTH RIDGEVILLE ACADEMIC CENTER  
3-4 WING: FIRST FLOOR PLAN

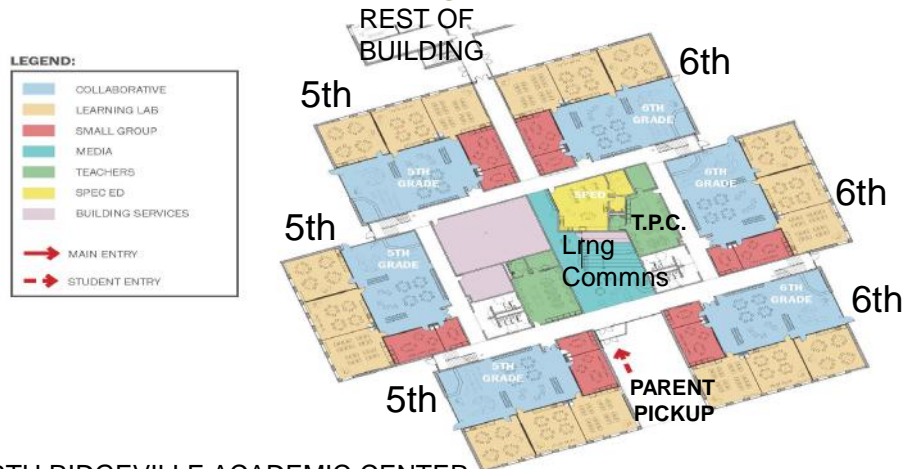
ThenDesign Architecture



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## Health Safety + Welfare

### STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER



NORTH RIDGEVILLE ACADEMIC CENTER  
5-8 WING: FIRST FLOOR PLAN

ThenDesign Architecture

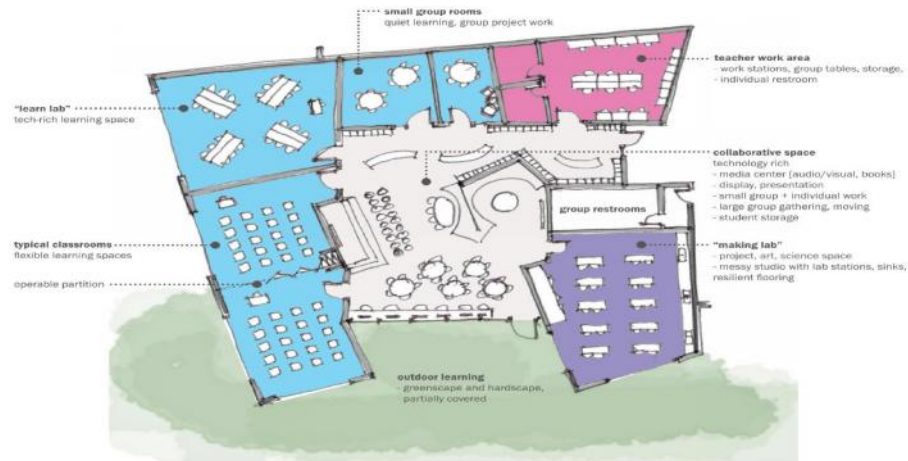


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# Health Safety + Welfare

## STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER



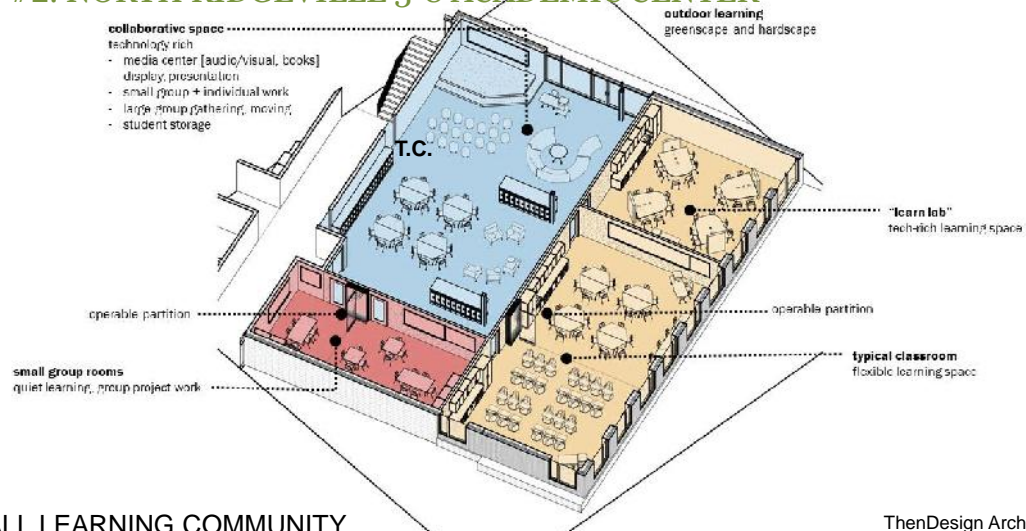
ThenDesign Architecture



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# Health Safety + Welfare

## STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER



3-4 SMALL LEARNING COMMUNITY

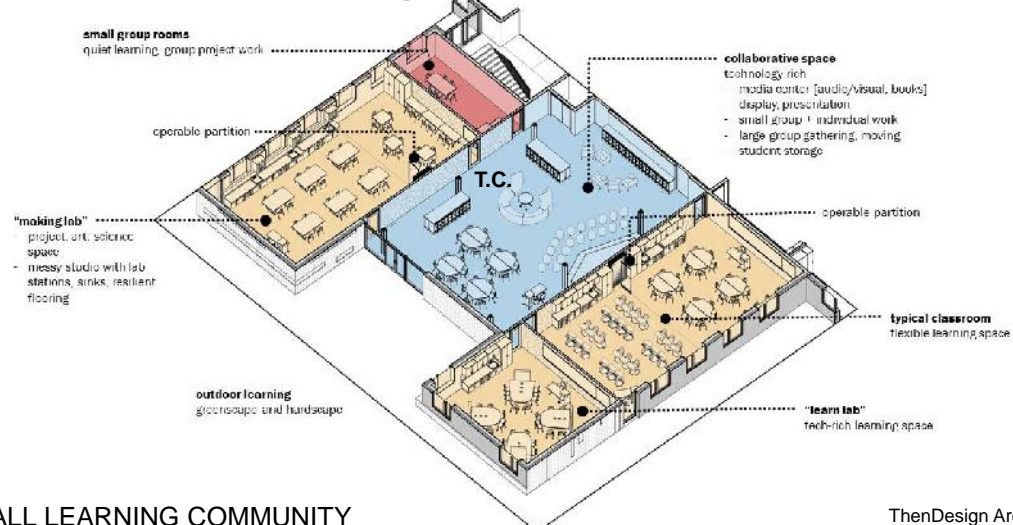
ThenDesign Architecture



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## Health Safety + Welfare

### STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER



5-8 SMALL LEARNING COMMUNITY

ThenDesign Architecture



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## Health Safety + Welfare

### STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER



ThenDesign Architecture



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## Health Safety + Welfare

STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER



ThenDesign Architecture



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## Health Safety + Welfare

STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER



ThenDesign Architecture



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## Health Safety + Welfare

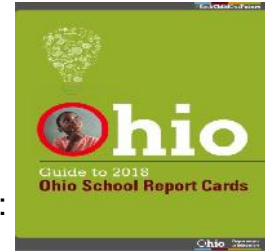
### STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER

- **HS+W results:**

The 2014 Educational Visioning led to educational practice changes and concepts for the new building

**After one year of building occupancy**, the district reports:

- Performance **up one letter full letter grade**
- **4% increase** in performance index over prior year, performance index measures the percentage of students scoring at each performance level on each state assessment
- **Gifted students** increased their letter grade in progress from a **C to an A** meaning they grew at more than twice the expected rate of growth



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## Health Safety + Welfare

### STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER

- **HS+W results:**

- **Lowest 20%** in achievement increased letter grade from a **D to a C** meaning they went from below what the state expected for growth to what the state expected for growth
- **Gap Closing** school received its highest score ever going from an **F to a B** Gap closing measures how various sub groups are closing the gap on students overall



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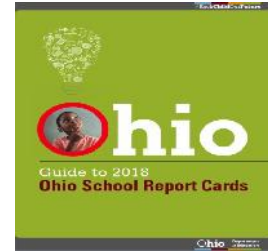
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## Health Safety + Welfare

### STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER

- HS+W results:
- Students are in class more as office referrals for **discipline are down approximately 60%**
- Score increases possibly attributed to additional time for instruction and intervention as students have **nearly 20 minutes more instructional time per day** due to fewer or no class changes
- Teachers are able to self-schedule their students and flex their time with students as there is **no longer a bell schedule**



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## Health Safety + Welfare

### STORY #2: NORTH RIDGEVILLE 3-8 ACADEMIC CENTER

- HS+W lasting lessons:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



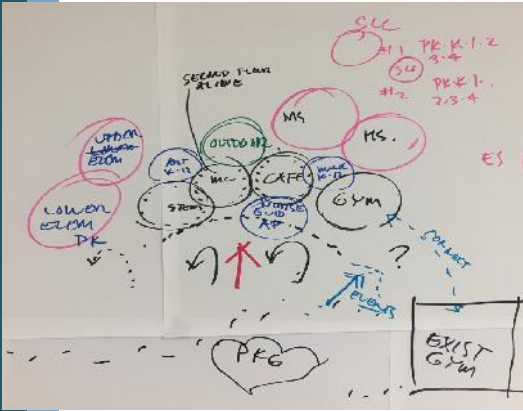
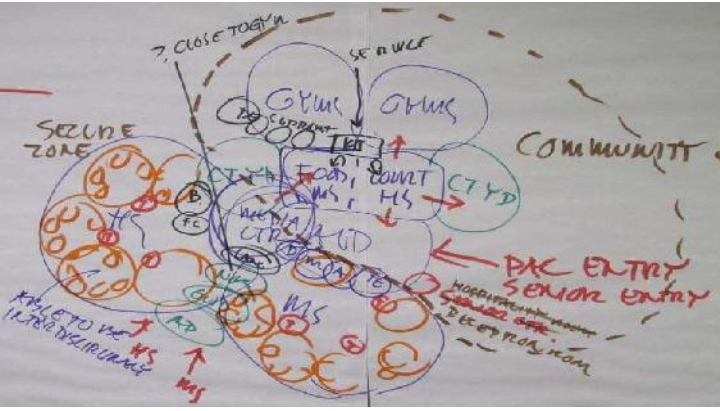
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## Visioning + Beyond

### CONSOLIDATION/CO-LOCATION: FEWER + LARGER

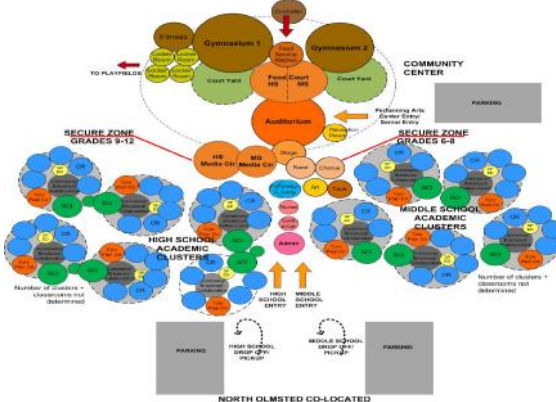
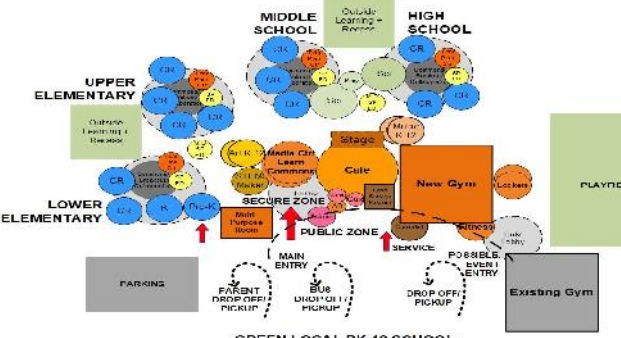



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## Visioning + Beyond

### CONSOLIDATION/CO-LOCATION: FEWER + LARGER

**NORTH OLMSTED CO-LOCATED HIGH SCHOOL/ MIDDLE SCHOOL**

**GREEN LOCAL PK-12 SCHOOL**  
Not all spaces shown  
Number of Classrooms not determined

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## Visioning + Beyond

### CONSOLIDATION/CO-LOCATION: FEWER + LARGER

Your challenge:

Identify ideal separations and separations among these program areas:

PROGRAM AREA	MS SEPARATE	SHARED USE	TIME SHARED	HS SEPARATE	WHY?
Entrance					
Core Classrooms					
Science Labs					
Inclusion Spl Ed					
Substantially Separate Spl Ed					
OT/PT					
IT Labs (if any)					
Tech/STEM Labs/ Maker Spaces					
Family/Consumer					
Music					
Art					
Gym(s)					
Fitness					
PE Locker Rooms					
Athletic Locker Rooms					
Administration					
Guidance					
Nurse					
Teacher Planning Centers					
Media Center/Learning Commons					
Auditorium (if any)					
Stage					
Food Court/Cafeteria					
Food Service Kitchen					
Custodial					
Other:					
Other:					
Other:					

Discuss in your small group Table Teams. Use this worksheet. Report out.



SHP Leading Design

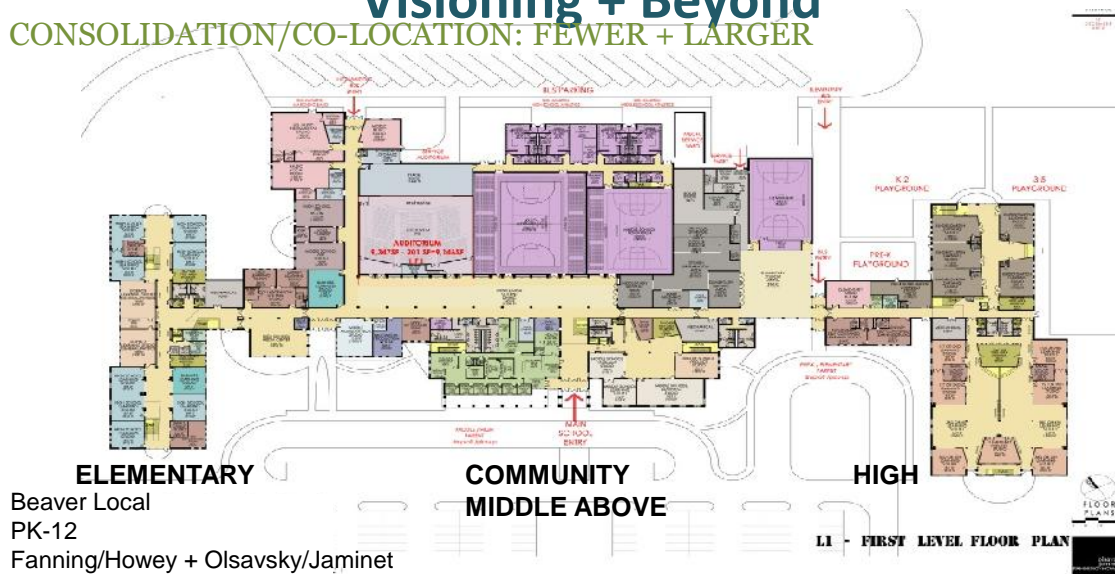


Frank Locker Educational Planning

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## Visioning + Beyond

### CONSOLIDATION/CO-LOCATION: FEWER + LARGER



**ELEMENTARY**  
Beaver Local  
PK-12  
Fanning/Howey + Olsavsky/Jaminet

**COMMUNITY  
MIDDLE ABOVE**

**HIGH**

L1 - FIRST LEVEL FLOOR PLAN



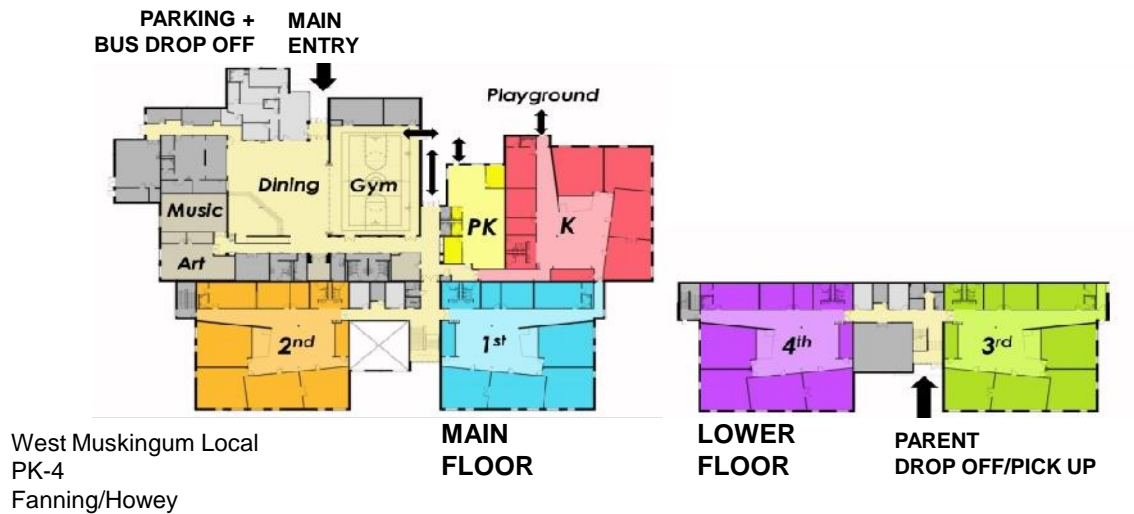
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## Visioning + Beyond

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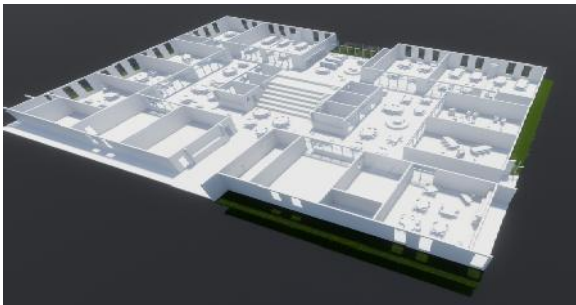


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## Visioning + Beyond

SMALL LEARNING COMMUNITIES



Winton Woods K-6  
Cincinnati, OH  
SHP Leading Design Architects



Winton Woods 6-12  
Cincinnati, OH  
SHP Leading Design Architects



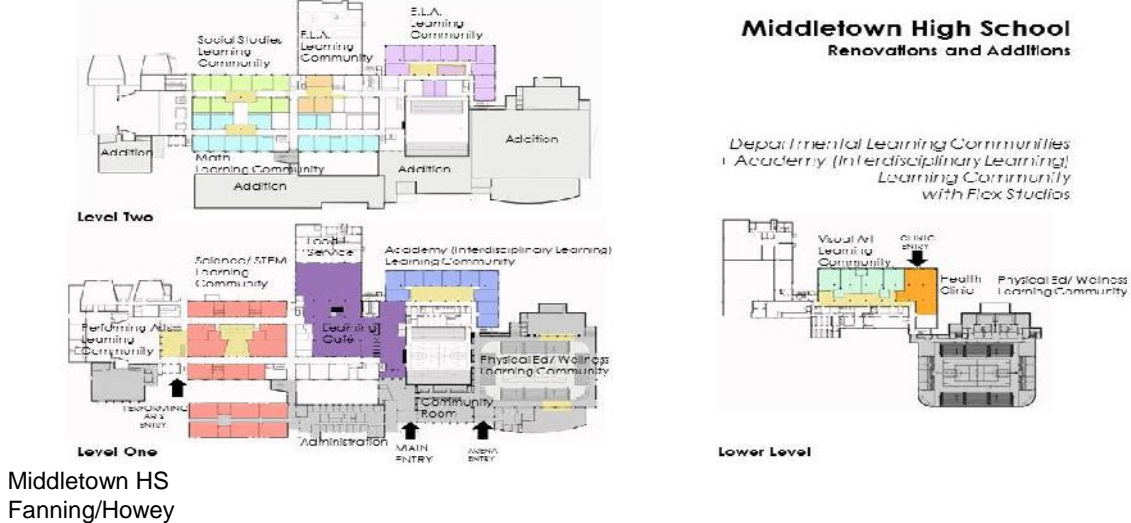
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## Visioning + Beyond

### SMALL LEARNING COMMUNITIES



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## Visioning + Beyond

### SMALL LEARNING COMMUNITIES



Middletown HS Departmental SLC  
Fanning/Howey



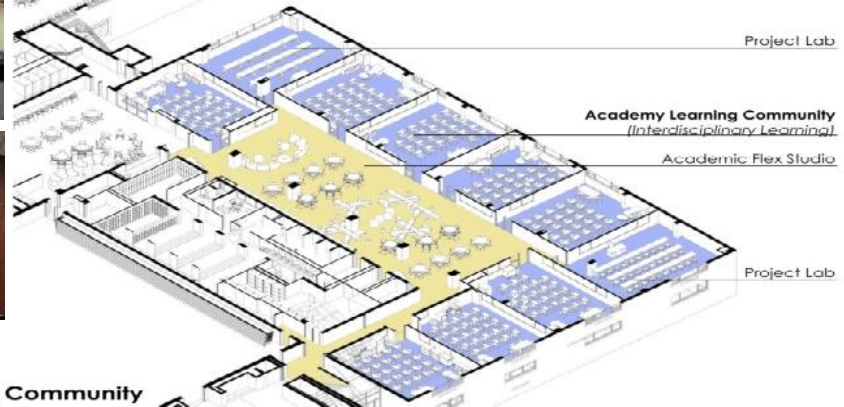
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## Visioning + Beyond

### SMALL LEARNING COMMUNITIES



Level 1  
Learning Community



Middletown HS Interdisciplinary SLC  
Fanning/Howey



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## Visioning + Beyond

### SMALL LEARNING COMMUNITIES

Learning Studio

Learning Studio

Learning Studio

Students

Restrooms

Staff

Restrooms

Entry

Security Doors



Windows

Flex

Studio

Learning

Studio

Stair

Garage

Door

Project

Studio

Learning

Studio



Middletown MS Grades 7-8  
Middletown City Schools  
Fanning/Howey



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## Visioning + Beyond

### SMALL LEARNING COMMUNITIES



Campus International K-8 School  
Cleveland Metro School District  
ThenDesign Architecture + Perkins/Will



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## Visioning + Beyond

### SMALL LEARNING COMMUNITIES



Campus International K-8 School 2ND FLOOR  
Cleveland Metro School District  
ThenDesign Architecture + Perkins/Will



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## Visioning + Beyond

### SMALL LEARNING COMMUNITIES



Campus International K-8 School  
Cleveland Metro School District  
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## Visioning + Beyond

### SMALL LEARNING COMMUNITIES



Campus International K-8 School  
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## Visioning + Beyond

### SMALL LEARNING COMMUNITIES



Campus International K-8 School  
Cleveland Metro School District  
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## Visioning + Beyond

### MULTIPLE MODALITIES



Clark Hall (High School)  
Gahanna-Jefferson Local Schools  
OHM Advisors Architects

Urbana High School  
Urbana City Schools  
Fanning/Howey



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## Visioning + Beyond

### MULTIPLE MODALITIES



Lake Local ES  
SoL Harris Day



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## Visioning + Beyond

### MULTIPLE MODALITIES



Ecole Kenwood Elementary  
Columbus, OH  
Fanning/Howey



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## Visioning + Beyond

### STUDENT CONTROLLED LEARNING



West Liberty-Salem High School  
West-Liberty-Salem Local Schools  
OHM Advisors Architects



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## Visioning + Beyond

### TEACHER PLANNING CENTERS

West Muskingum Elementary  
West Muskingum Local Schools  
Fanning/Howey



Urbana High School  
Urbana City Schools  
Fanning/Howey

Urbana PK-8 School  
Urbana City Schools  
Fanning/Howey



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## Visioning + Beyond

### FLEXIBLE CLASSROOMS



Urbana High School  
Urbana City Schools  
Fanning/Howey



PK-12 School  
Beaver Local Schools  
Lisbon, OH  
Fanning/Howey + Olsavsky/Jamnet



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## Visioning + Beyond

### THE END OF THE LIBRARY AS WE KNOW IT TODAY



Lakeview K-8 School  
Lakeview Local Schools  
Cortland, OH  
GPD Architects



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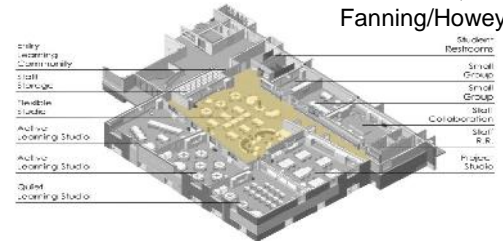
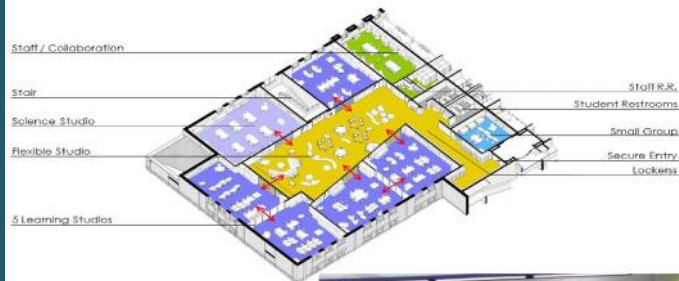
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## Visioning + Beyond

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West Muskingum Elementary School  
West Muskingum Local Schools  
Zanesville, OH  
Fanning/Howey



Urbana PK-8 School  
Urbana Local Schools  
Fanning/Howey



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## Visioning + Beyond

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Fairfield Freshman Center  
Fairfield City Schools  
SHP Leading Design

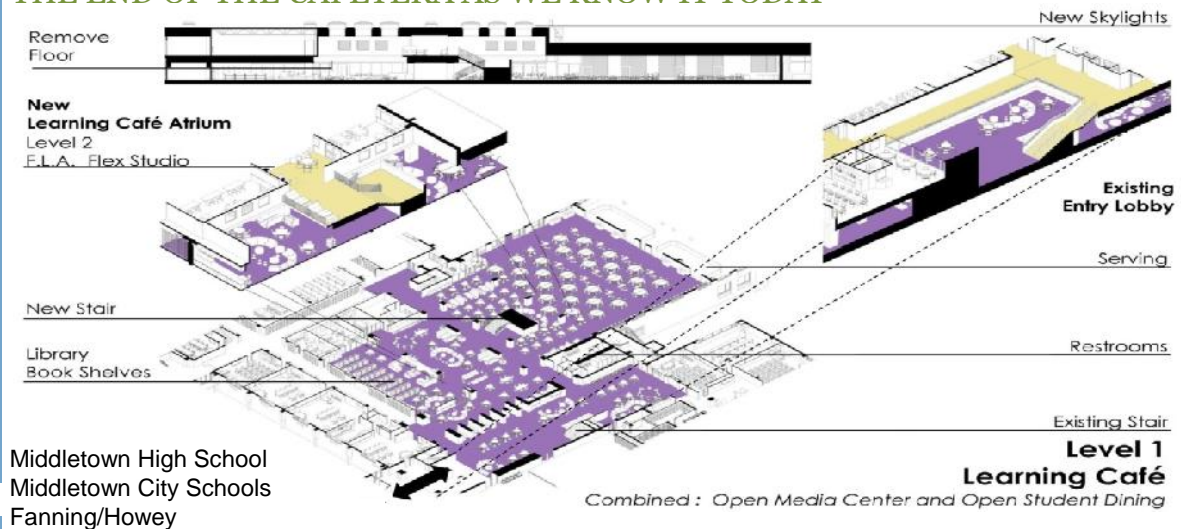


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## Visioning + Beyond

### THE END OF THE CAFETERA AS WE KNOW IT TODAY



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## Visioning + Beyond

### THE END OF THE CAFETERA AS WE KNOW IT TODAY



Middletown High School  
Middletown City Schools  
Fanning/Howey



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## Health Safety + Welfare Reconsidered

- Do you believe this process improved HS+W?
  - Why?
- What more evidence do we need?
- If this is good, how do we scale up across the country?
  - What can OFCC do?
  - What can A4LE do?
  - What can you do?



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## OFCC Planning Principles

- Multiple buildings in any single project
- Fewer, larger school buildings
- Educational Visioning
  - Educational practice change
  - Innovative facilities planning concepts
- Annual School Visioning + Transformation conferences
- Regular presentations on Visioning at educational leadership conferences
- Equity, facility condition assessment, enrollment projections



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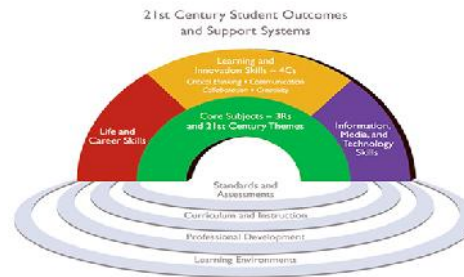
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## Transformation Process and History

- Key Commission Resolutions
  - 2007 LEED Requirement
  - 2009 21<sup>st</sup> Century Learning Environment



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## Transformation Process and History

- 2007 LEED Requirement
  - 323 LEED Certified Schools

323 LEED  
Certifications  
Certified – 6  
Silver – 218  
Gold – 96  
Platinum – 3



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Ohio is Leading the Nation in LEED Schools  
OFCC – 500+ Projects Registered to Date

Cincinnati City SD  
Pleasant Ridge  
Montessori  
OFCC 1<sup>st</sup> LEED  
School



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## Transformation Process and History



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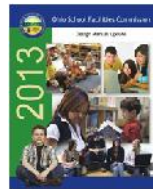
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 Ohio is Leading the Nation in LEED Schools  
 OFCC – 500+ Projects Registered to Date



Association 4 Learning Environments Chicago 201 Cincinnati City SD: Sands Montessori

## Transformation Process and History

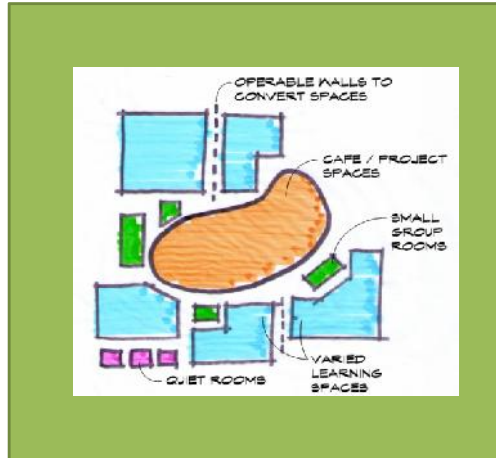
- Ohio School Design Manual Evolution
  - 2011 Student Centered Learning Environments
  - 2013 High Performance Learning Environments
  - 2014 Volume 1 Educational Facility Planning Guide



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## Transformation Process and History

COLLABORATIVE LARGE GROUP SPACES / PROJECT SPACES/ INDIVIDUAL  
SMALL GROUP SPACES / INDIVIDUAL STUDY SPACES / BREAK-OUT SPACES



- ATTRIBUTES
  - Flexibility
  - Comfort
  - Ambiance
  - Technology/Connectivity
  - Places
- PLANNING CONCEPTS
  - Varied in design
  - Flexible
  - Small and large
  - Reconfigurable
  - Soft and hard seating

## Transformation Process and History

- Hosted Seminars and Workshops
  - 2010 Seminar K-16
  - Educational Visioning + Transformation Workshops
  - OFCC 21C studio



## Transformation Process and History



[osfc21cstudio.ning.com](http://osfc21cstudio.ning.com)



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## Transformation Process and History

- Webinars and publications
  - Safety + Security in 21<sup>st</sup> Century Buildings
  - Making Things to Learn
  - Food. Sustainability. Engagement
  - Ergonomics
- Prequalified Educational Planners
- OFCC Staff Training



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## Transformation Process and History

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