# **CONCEPT DESIGN**

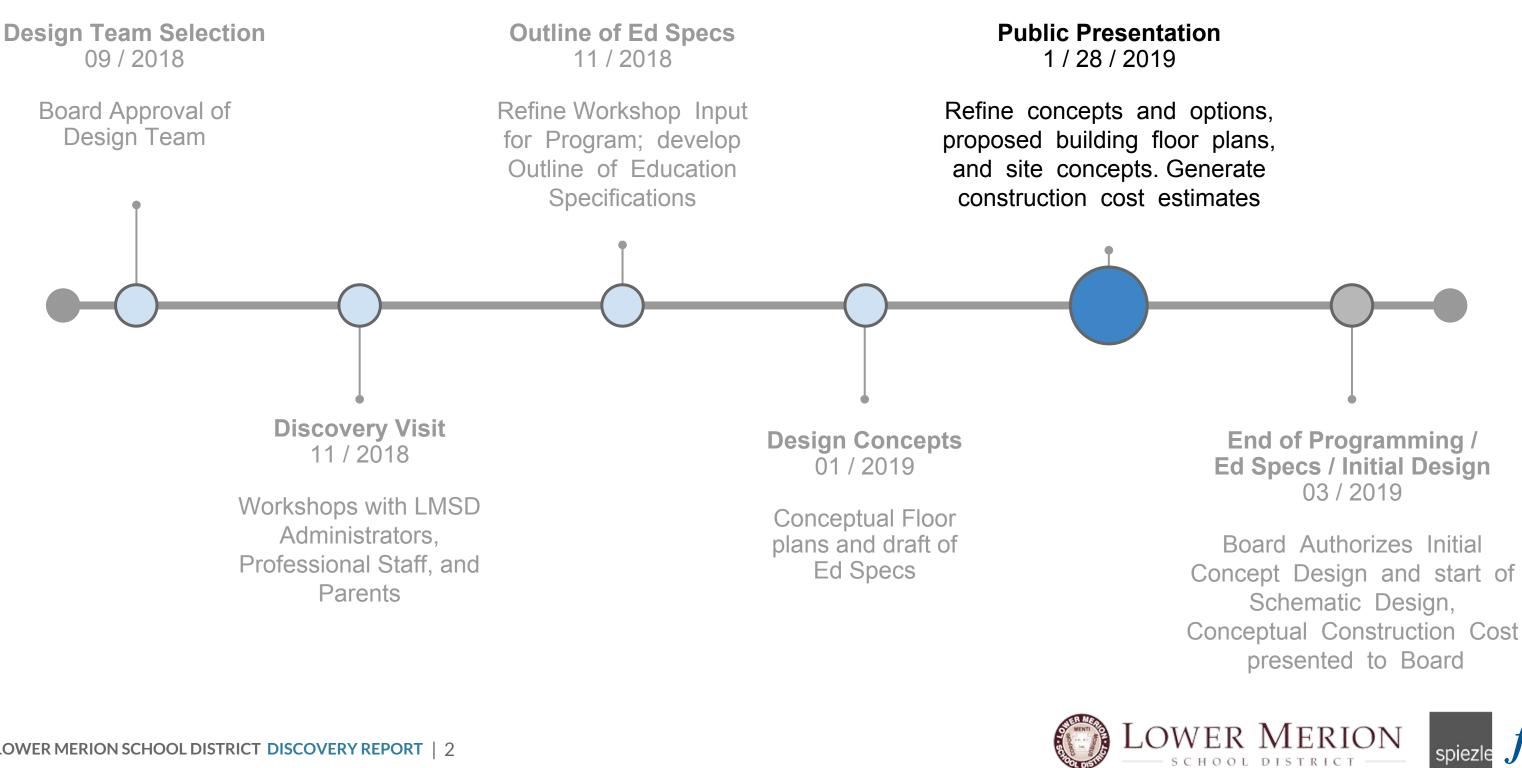
### Board Presentation

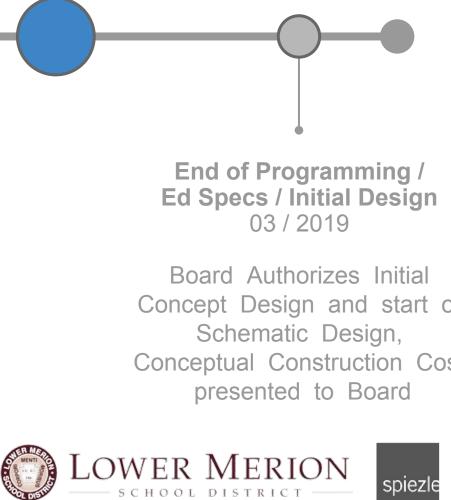
Ben

LOWER MERION SCHOOL DISTRICT 01/28/2019



## **Overview** | Our Work Together





### **Overview** | Discovery Visit Agenda



### THURSDAY, NOVEMBER 1<sup>ST</sup>

8:30 - 10:30 a.m.	Vision an
11:00 - 12:30 p.m.	Reverse
1:30 - 3:30 p.m.	Developi

### FRIDAY, NOVEMBER 2<sup>ND</sup>

8:30 - 11:30 a.m.	Design F
11:45 - 12:30 p.m.	Student



- nd Project Goals
- Engineering Exemplary Programs
- ing Guiding Principles

- Patterns
- Focus Group





# Workshop Discoveries | Visioning & Goals Feedback

Through questions and discussion for the overall vision of the school, stakeholders highlighted ideal outcomes for students that would help them prepare for the 21st century. Some topics of conversation included:

Why are we designing an innovative school?

How has the technology explosion already changed the world?

What are the conversations you are having about the future cultural and work landscape in your district?

What are the skills and dispositions our students needs for success after high school in this 'future condition'?

From these questions, participants synthesized knowledge sets, skills, and dispositions that learners should have so they can succeed in their futures. These ideal outcomes began the starting point of an in-depth exploration of the Guiding Design Principles for the project:

Ethics	Problem Solving	Passion for Learning
Leadership	Critical Thinking	Curiosity
Creativity	Social Skills	Learning Agility
Cultural Competence	Fundamentals	Embrace Mistakes
Stewardship	Collaboration	Patience
Perseverance	Entrepreneurship	Technology
Daily Life Skills	Empathy	Growth Mindset
Feel Safe	Well Being	Emotional Intelligence
Community Minded		









"The new school should stretch all learners to think outside of an individual comfort zone within a comfortable environment"

- Guiding Principles Workshop

# Workshop Discoveries | Reverse Engineering Feedback

Participants explored exemplary Middle Schools currently offering high quality 21st century learning experiences to students. After watching videos that provided a high-level overview of these exemplars, discussion teams 'reverse engineered' Guiding Principles that seemed to exist at each of these programs or that characterized the schools. After listing these principles, teams were asked to categorize the guiding principles seen in other programs that might also guide school design for Lower Merion. The primary themes that emerged from the discussion are listed below. These themes were used as a reference point for developing Lower Merion's own Guiding Principles for Design.

#### **Guiding Principles trends:**

Interdisciplinary Learning Collaboration amongst teachers and students Self directed Learning **Project Based Learning** 











## Workshop Discoveries | Student Focus Group Feedback

The Design team had a great conversation with Middle School students to find out what they want for the future of the new Lower Merion Middle School. After showing students examples of innovative school spaces, learners answered the questions "What do you like?", "What do you wish?" and "what do you wonder?" for your new school. Students were also asked what would make them like school more, and details surrounding the use of lockers.

#### I LIKE:

**Variety of learning:** Small group, presentation, open space, Learning Commons, gathering stairs

Specialty: Greenhouse, outdoor learning

Schedule Changes: time between classes

**Creative space:** Makerspace, Large Art rooms, Innovation Lab, Culinary Arts, green screen room

Flexible space: Writable Walls, sliding doors and walls

**Comfort:** Natural light, rugs, large Heart space, soothing color palette, modern, mix of materials, lots of nature

#### I WISH:

**Operational:** more bathrooms, gender neutral bathrooms, larger lockers, more water fountains, easy to navigate

Flexibility: Comfortable and mobile furniture

Outdoor connections: outdoor classrooms, natural light

Dining: more time for food, larger prioritization for cafes

#### I WONDER:

Usability of outdoor space? Amount of acoustics?

How schedules will change? Best shape of a school?

Color choices (bright could be too much)?











## Workshop Discoveries | Student Focus Group Feedback

#### Tell me about a place/space you like:

**Welsh Valley Tech Ed Room:** Spacious, flexible spaces together, like the program and would be more inspired if the space was purpose built.

**Space with friends:** Comfortable and private space, Open area for freedom, Flexible furniture and natural daylight

#### I'd like school more if:

There were more projects with friends and less quizzes

I was able to have more hands on projects instead of straight forward packets of information to fill out

I was able to be outside more

There was less distance and more time between classes, along with wider hallways for less crowding

I was able to partake in more independent and creative things

We had a cafe space

We had less whole group lecture learning

We had more say in what we do with our learning and free time

#### Lockers

About 65% of students suggested they'd use lockers. Of that group, half said they would use lockers occasionally, while the other half said they would use lockers every day. Students expressed discomfort with leaving "valuables" like jackets or boots in the open. While witnessing student behaviors at school visits, student's things were left unattended throughout campus.











"I'd like school more if I did more group projects with friends and if we worked outside"

- Student Focus Group

# Workshop Discoveries | Guiding Principles Overview

- Our school embodies and promotes inclusion, accessibility, agility and flexibility.
- Our school fosters active local and global citizenship as well as cultural competency.

Our school promotes collaboration

Our school crafts empowering experiences for young people.

Our school cultivates student voice, student choice, and student agency.

Our school elevates social, emotional, and physical safety and wellness.

Our school organizes learning to transcend foundational domains.



and iteration amongst all participants.

Our school encourages challenge, failure, and appropriate risks.



### What We Heard from Workshops:

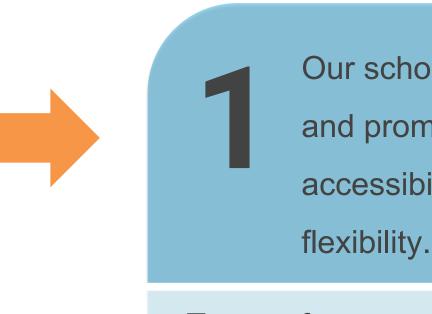
- The interdisciplinary teaming and learning is the heart of the middle school experience through project and inquiry based learning
- Flexible and adaptable classroom spacing will promote an interdisciplinary curriculum
- The space should accommodate many modes of learning, no barriers so that learning can follow its natural trajectory, learning and teaching is differentiated

### LMSD Strategic Plan:

- Strategic Pathways:
  - Transformative Curriculum
  - Commitment to Professional Learning

### LMSD Transformative goals:

- Cultural: Advocate for self and others by drawing on compassion and courage to speak up for what's right and just
- Global: Use processes (e.g., design thinking, creative problem solving, and systems thinking) to develop solutions and to understand the role of failure in learning.



- Types of spaces:
- Learning Communities
- -
- cognitive disability
- Flexible, variable



Our school embodies and promotes inclusion, accessibility, agility and

Dining hall (not cafeteria) Spaces designed for all users regardless of physical or





### What We Heard from Workshops:

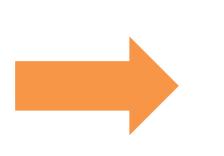
- Learning experience should leverage local and community environment, resources, assets, and instructions to demonstrate relevance and authenticity of the learning
- Global awareness, cultural competency, diversity of culture and opinions
- Learners and teachers should be stewards of the communities and environments in which they exist

### LMSD Strategic Plan:

- Strategic Pathways:
  - Transformative Curriculum
  - Spirit of Community

### LMSD Transformative goals:

- Cultural: Navigate through diverse sources and perspectives to reach discerning and thoughtful understandings
- Cultural: Advocate for self and others by drawing on compassion and courage to speak up for what's right and just
- Global: Investigate challenging contemporary global and local issues by pursuing questions or lines of thinking



local a

citizenship as well as

cultural competency.

### Types of spaces:

- Virtual Learning Space
- Large group Instruction / community gathering
- Greenhouse
- Community collaboration space



Our school fosters active

local and global

s: ning Space Instruction / gathering collaboration





### What We Heard from Workshops:

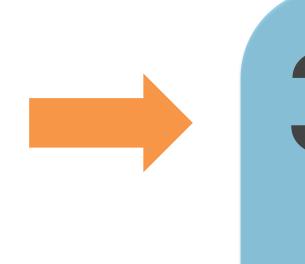
- Learners share work with each other regularly and work is visible
- Interdisciplinary teaming is critical
- Flexible collaborative learning space for interdisciplinary learning
- The new school should accommodate and inspire collaboration with common planning time and space for teachers

### LMSD Strategic Plan:

- Strategic Pathways:
  - Transformative Curriculum
  - Commitment to Professional Learning
  - Student-Driven Schools

#### LMSD Transformative goals:

- Cultural: Share stories, ideas, and points of view while engaging others to think independently and act collectively
- Use processes (e.g., design thinking, creative problem solving, and systems thinking) to develop solutions and to understand the role of failure in learning.



participants.

### Types of spaces:

- Teacher Collaboration Rooms
- Small Group Rooms — Seminar Rooms \_ Makerspaces and workshop environments



- Our school promotes
- collaboration and
- iteration amongst all





### What We Heard from Workshops:

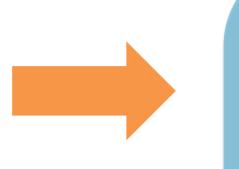
- Learners can self assess and monitor their own growth or the habits of mind, instructional and curricular experiences have to support resilience, embrace failure as a learning opportunity, and inspire students
- Learners feel safe, learners are comfortable and given guidance to take risks, willingness to make mistakes, learn through making mistakes

### LMSD Strategic Plan:

- Strategic Pathways:
  - **Redefining Success**
  - Student-Driven Schools

#### LMSD Transformative goals:

Global: Use processes (e.g. design thinking, creative problem solving, and systems thinking) to develop solutions and to understand the role of failure in learning



Types of spaces:

- **Presentation Space**
- Makerspaces -
- Independent learning **Opportunities/Spaces**



Our school encourages challenge, failure, and appropriate risks.





### What We Heard from Workshops:

- Ensuring kids have an adult they trust in the building
- Learning must be meaningful and relevant to the students, not just work for the sake of creating work.
- Through a culturally responsive, restorative environment, all students will know they are respected, and appreciated

#### **LMSD Strategic Plan:**

- Strategic Pathways: -
  - Transformative Curriculum
  - Spirit of Community

### LMSD Transformative goals:

- Cultural: Advocate for self and others by drawing on compassion and courage to speak up for what's right and just
- Global: Investigate challenging contemporary global and local issues by pursuing questions or lines of thinking.



Types of spaces: Multiple places to present work and celebrate growth Large gathering areas

- Green room
- Collaborative spaces —
- Hands-on workshops



Our school crafts empowering experiences for young people.





### What We Heard from Workshops:

- All students should have equitable access and the opportunities to be successful learners
- Student driven learning Student choice, flexible and varied space

### LMSD Strategic Plan:

- Strategic Pathways: -
  - **Student-Driven Schools**
  - Transformative Curriculum

### LMSD Transformative goals:

- Personal: Explore and develop personal interests, inquires, and passions
- Personal: Set learning goal(s) that are pursued and evaluated until the goal(s) are realized or new ideas emerge

agency.

Types of spaces:

- Flexible room configurations
- Outdoor areas \_
- Café or dining hall with seat and food options
- Small and large group rooms -



- Our school cultivates
- student voice, student
- choice, and student





### What We Heard from Workshops:

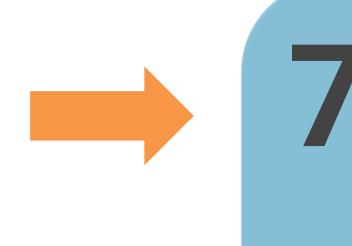
- Through culturally responsive, restorative environment, all students will know they are respected, and appreciated
- New middle school will encourage an individual's wellness
- Learners will have a safe learning environment for physical, emotional, and social growth

#### LMSD Strategic Plan:

- Strategic Pathways: -
  - **Redefining Success**
  - Transformative Curriculum

#### LMSD Transformative goals:

Global: Make informed choices that support social, emotional, and personal healthy and well-being.



wellness.

- **Distributed Counseling** Yoga and Dance Studios Quality dining options Large group gathering —
- Types of spaces:
- spaces
- Secure, comfortable



- Our school elevates
- social, emotional, and
- physical safety and





### What We Heard from Workshops:

- Interdisciplinary education that incorporates multiple domains of knowledge and skills are the most powerful learning experiences.
- The new middle school will measure student achievement through a variety of methods

### LMSD Strategic Plan:

- Strategic Pathways:
  - **Redefining Success**
  - Transformative Curriculum
  - **Student Driven Schools**

#### LMSD Transformative goals:

- Personal: Explore and develop personal interests, inquiries and passions.
- Personal: Set learning goal(s) that are pursued and evaluated until the goal(s) are realized or new ideas emerge.



### Types of spaces:

- Co-teaching capable
- —
- easily accessible
- Learning Communities —



Our school organizes learning to transcend foundational domains.

Teacher collaboration space Multiple modes of instruction

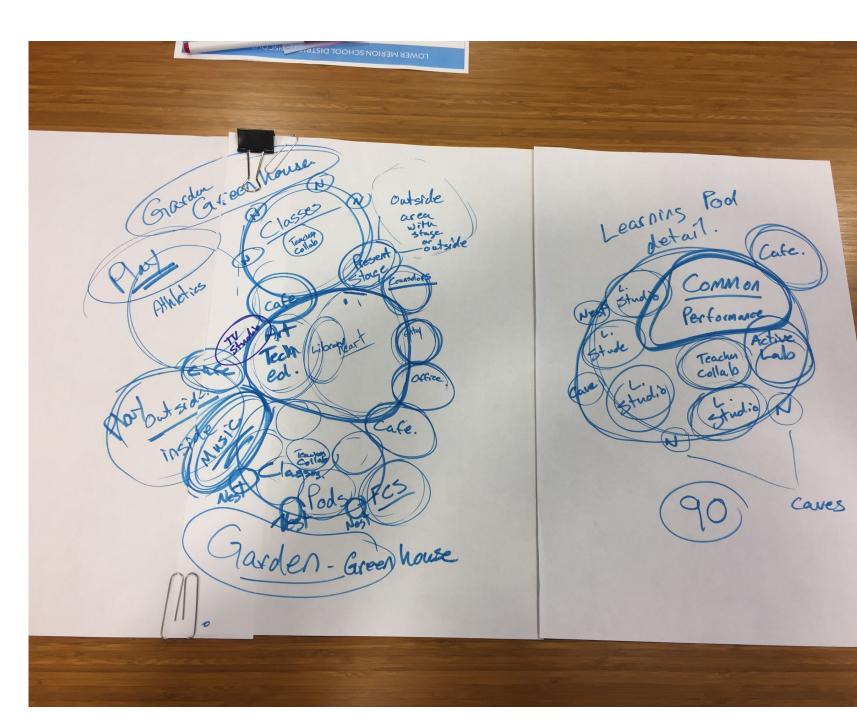




# Workshop Discoveries | Design Patterns Feedback

After reviewing and recommending changes to the Emerging Guiding Principles, the group was tasked to make connections between each principle and the qualities or types of spaces needed in the new school. Participants were shown examples of 21st century learning environments during a slide presentation and then formed groups to create simple bubble diagrams of the school. Common themes found in multiple bubble diagrams are listed below:

- School heart welcoming meeting place for many to gather together
- Centrally located curiosity center / production space
- Performance space
- 5th and 6th grade studios separated from 7th and 8th grade studios
- Specialty spaces located centrally and on 1st floor (not tucked away or hidden)
- Variable environments in learning pods
- Outdoor learning environments desired











# **Programming Strategies** | Site



#### **Main Features**

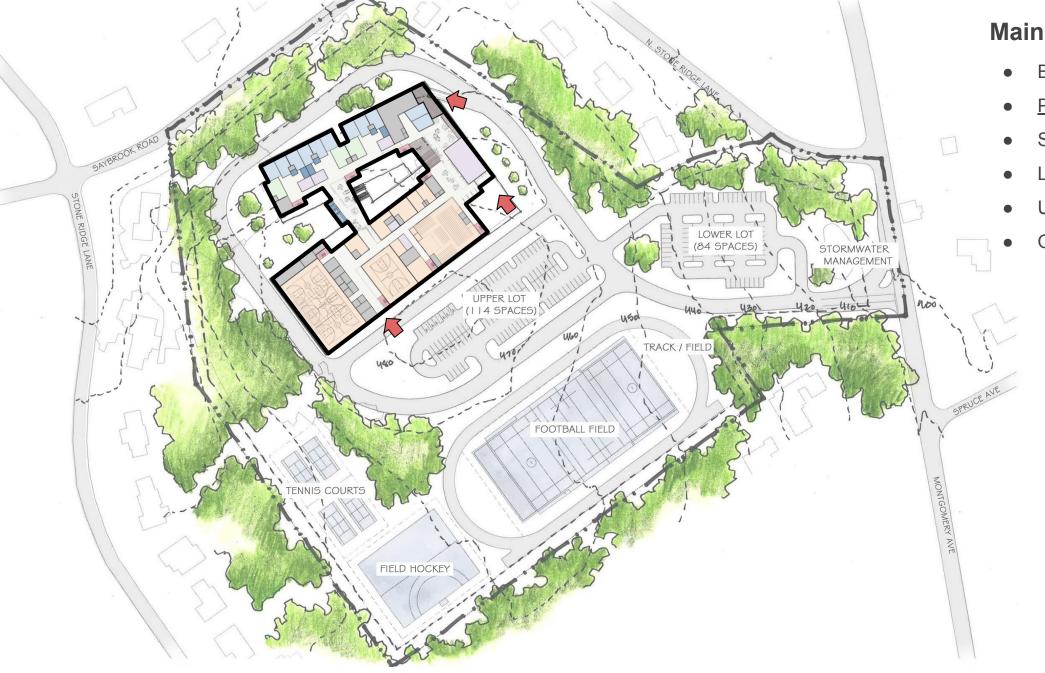


Building takes advantage of slope of the site Public areas of landscape and building are visible from entry Separate <u>public</u> and <u>private</u> designated building entrances Learning Communities in private location toward back of site U-shape layout creates centralized outdoor courtvard Outdoor athletic fields are concentrated to one area of site





# Programming Strategies | Site



#### **Main Features**

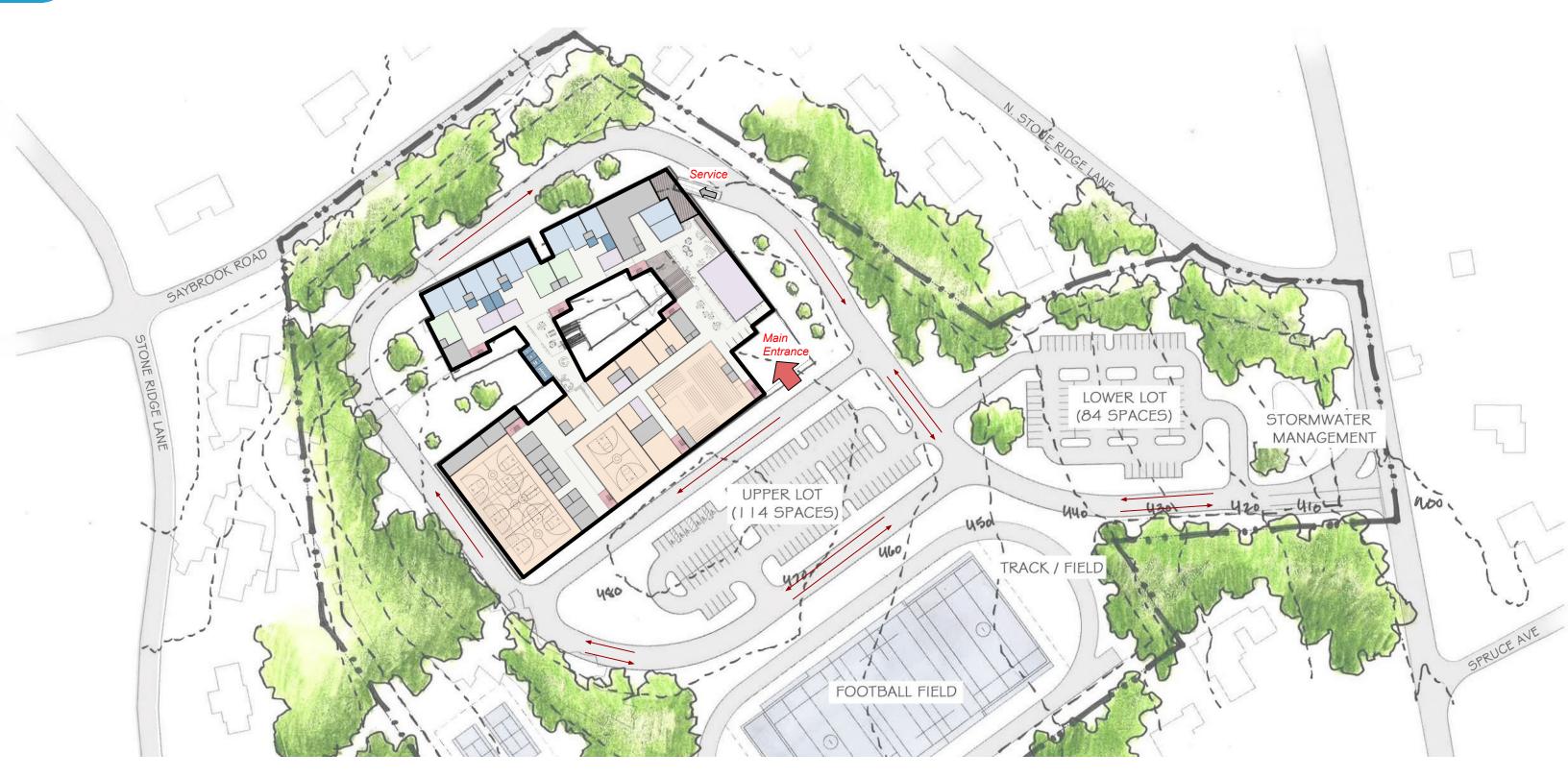


Building takes advantage of slope of the site Public areas of landscape and building are visible from entry Separate <u>public</u> and <u>private</u> designated building entrances Learning Communities in private location toward back of site U-shape layout creates centralized outdoor courtvard Outdoor athletic fields are concentrated to one area of site





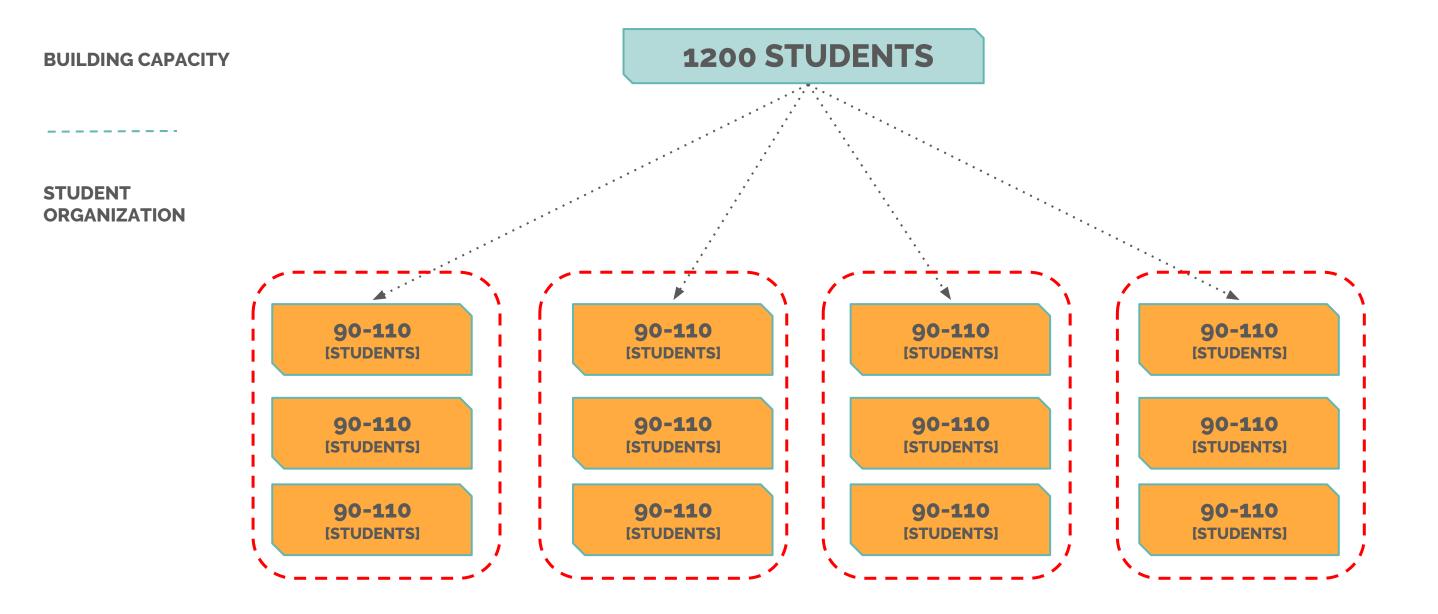
# Programming Strategies | Site







# Master Planning | Strategies for Organization



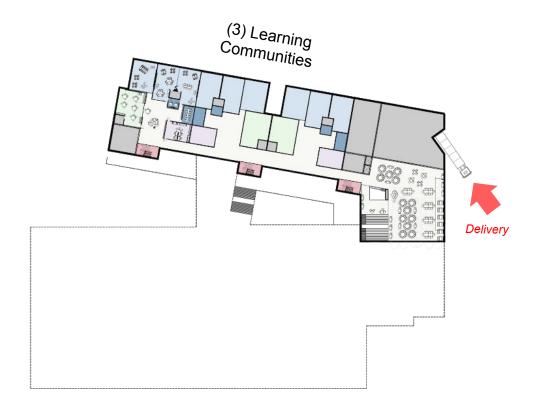


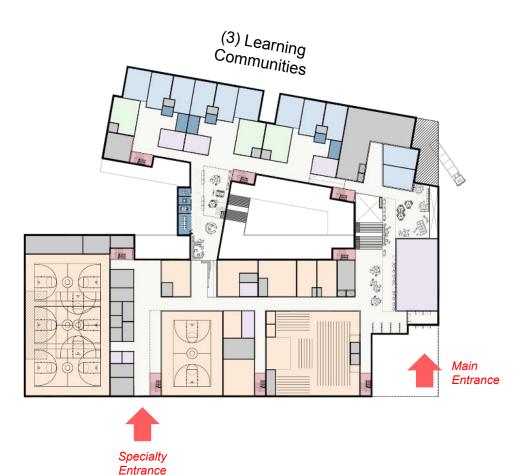






#### TOTAL GROSS AREA (229,000 SF)





#### LOWER LEVEL (40,000 SF)

1 grade level 90-110 Students per Community

### N

#### MAIN LEVEL (113,000 SF)

1 grade level 90-110 Students per Community





#### UPPER LEVEL (76,500 SF)

2 grade levels 90-110 Students per Community



## Test Fits | Main Level



#### Welcoming Entry / Gallery / Heart



#### MAIN LEVEL (113,000 SF)

1 grade level 90-110 Students per Community





## Test Fits | Lower Level

**Connections to Play** 



Natural Play Areas



Dining overlooks outdoor nature and play





1 grade level 90-110 Students per Community

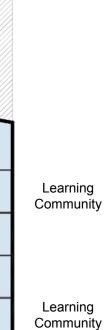


## Test Fits | Upper Level









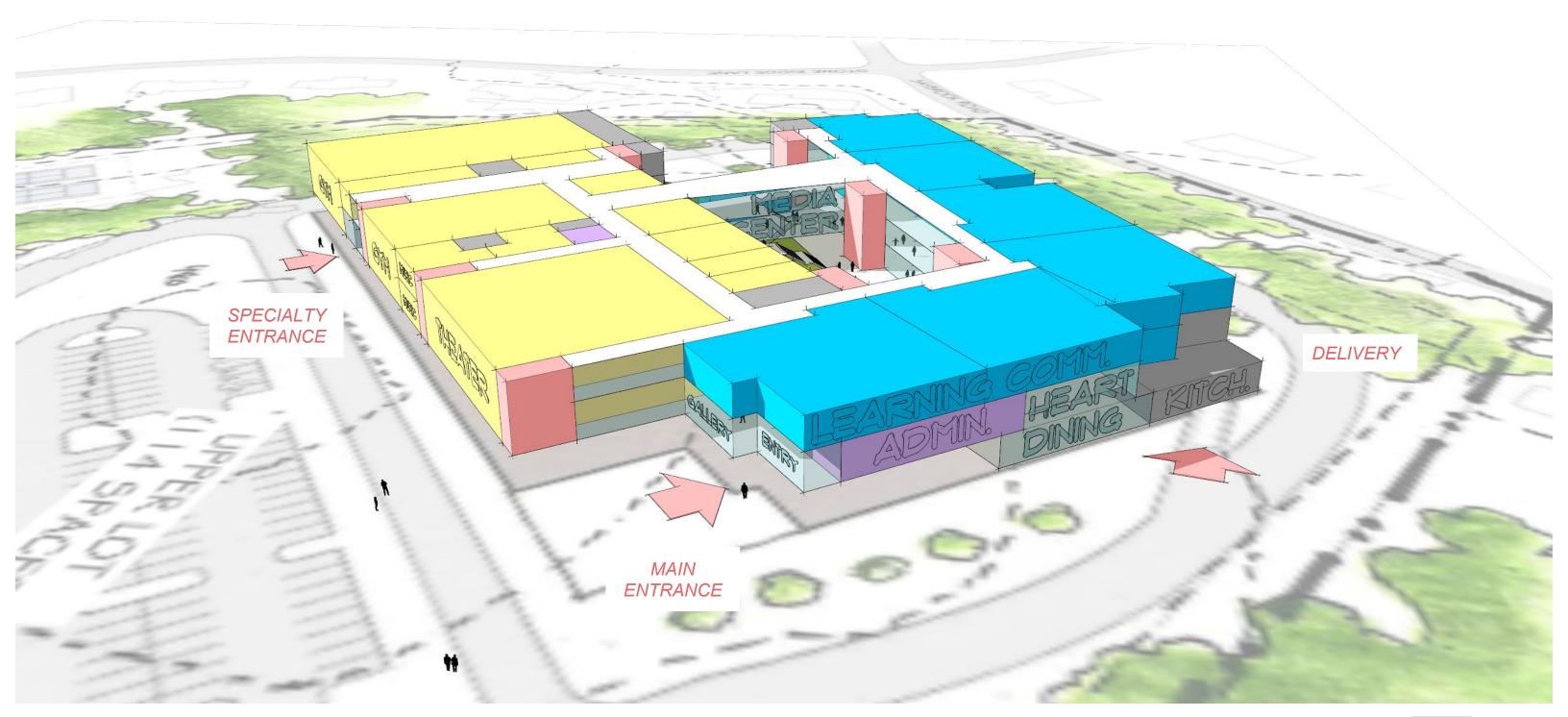
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#### UPPER LEVEL (76,500 SF)

2 grade levels 90-110 Students per Community



## Test Fits | 3D Section - A



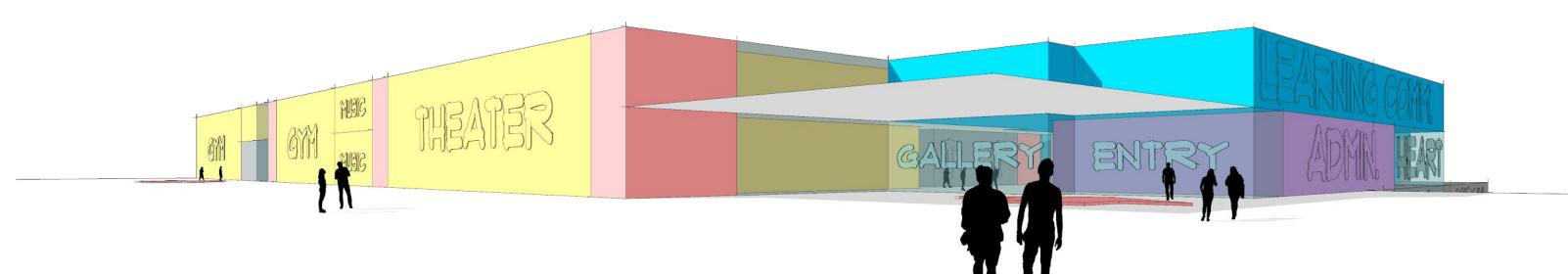








### Test Fits | 3D Vignette - Entry

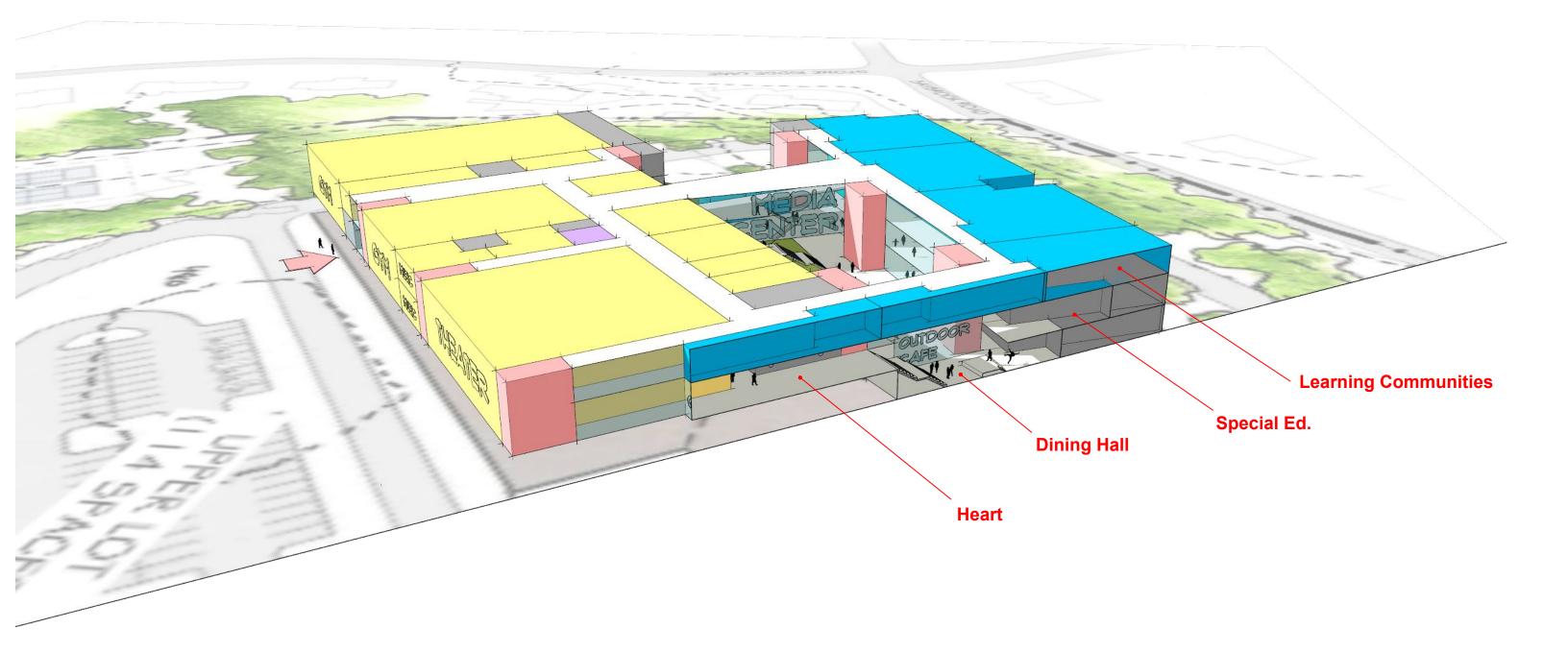








## Test Fits | 3D Section - C

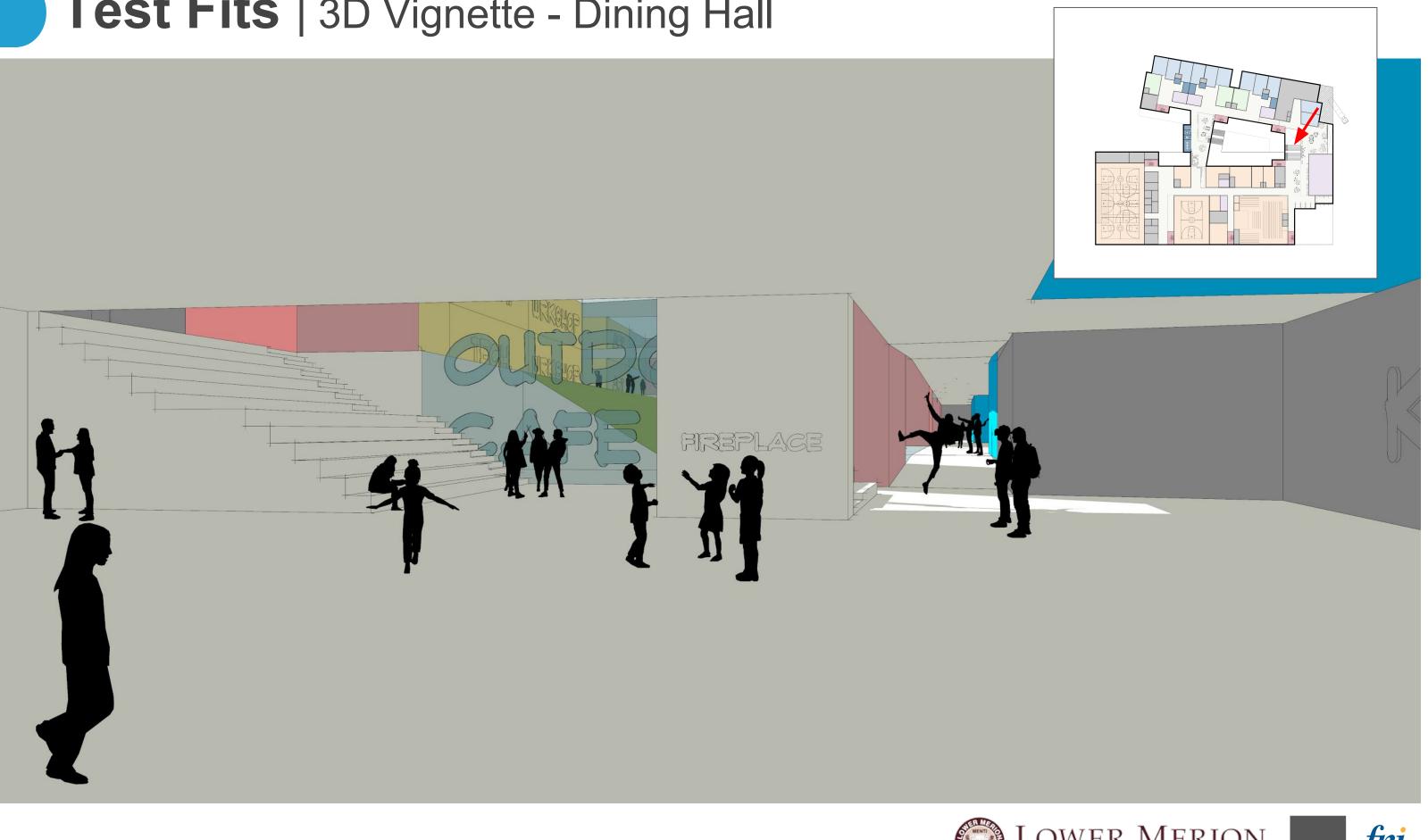


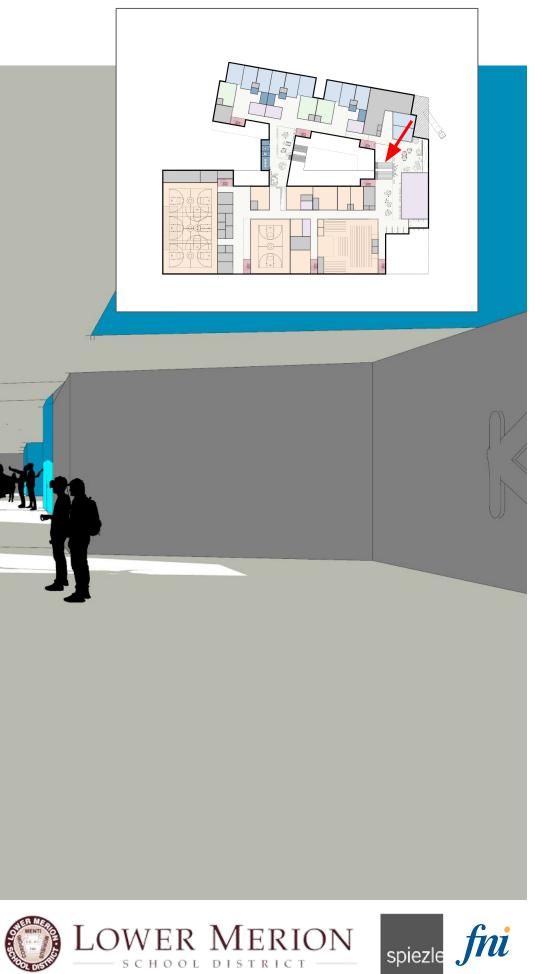




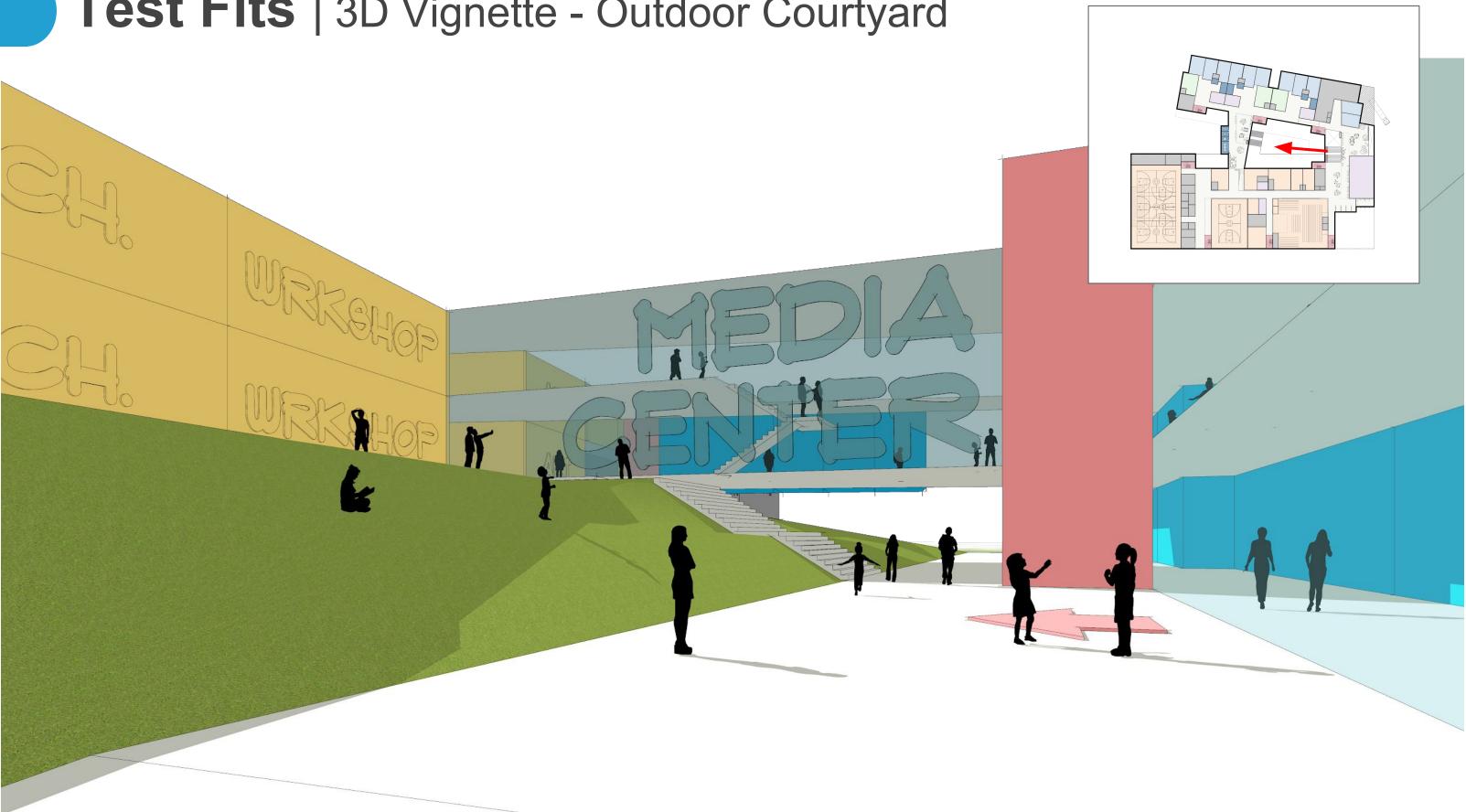


# Test Fits | 3D Vignette - Dining Hall





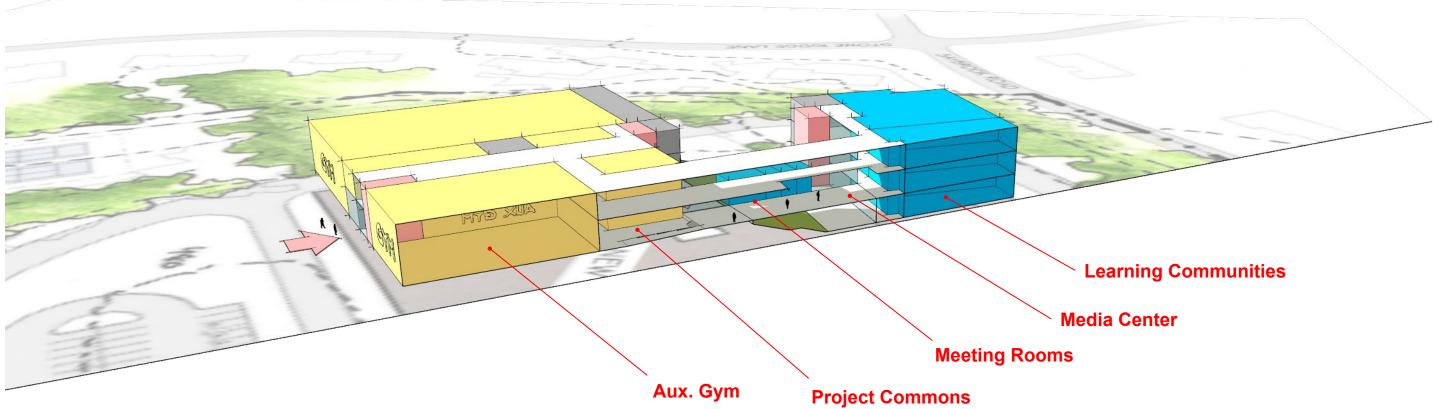
# Test Fits | 3D Vignette - Outdoor Courtyard







### Test Fits | 3D Section - E









# Test Fits | 3D Vignette - Media Center

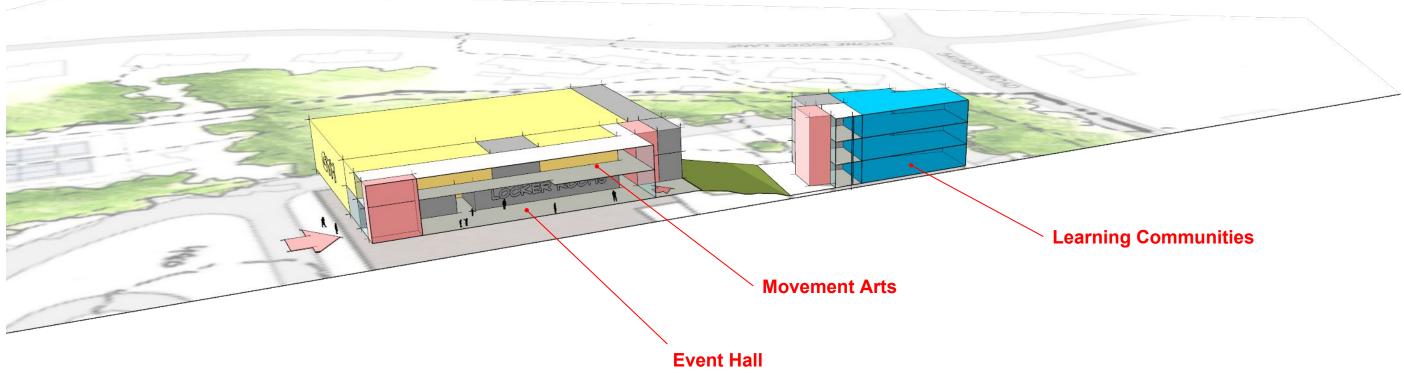








## Test Fits | 3D Section - F

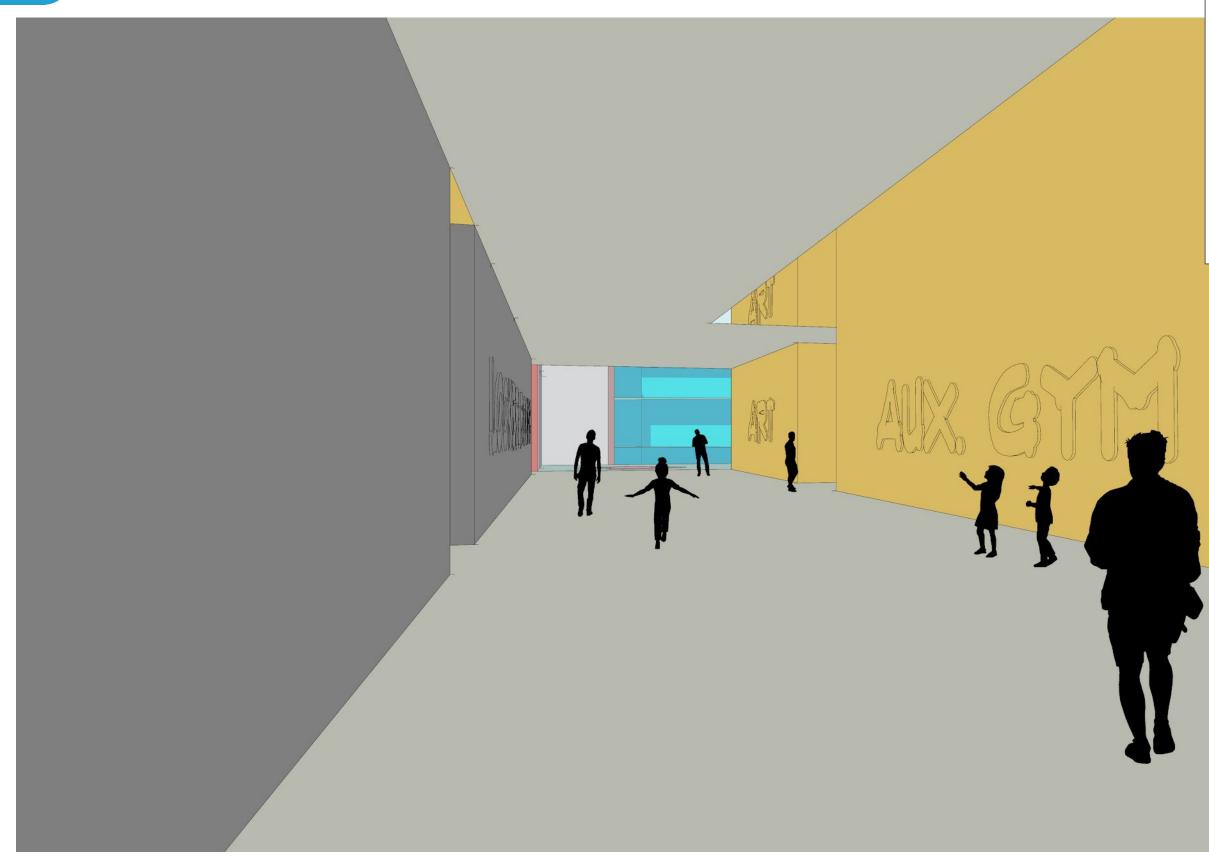




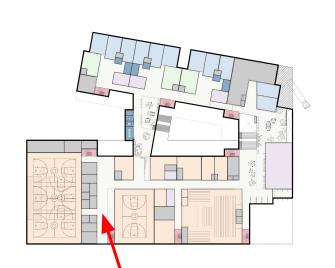




## Test Fits | 3D Vignette - Event Hall











## Test Fits | 3D Vignette - Animation







