

Mansfield Board of Education

Meet TSKP STUDIO

November 8, 2018



TSKP ARCHITECTURE | PLANNING | INTERIORS
STUDIO

Introduction | **TSKP Studio**

Developing a Conceptual Design for our New Elementary School

Meet the Architects from TSKP Studio

Ryszard Szczypek, Jeff Brown,

Tai Soo Kim, Christine O'Hare

Introduction | Review

How we came to identify one new elementary school as the best solution for the future of Mansfield's students.

A BRIEF REVIEW OF ACTIONS TO DATE

Introduction | Review

School Facility Planning Study – Completed September 2017

Input gathered from more than 100 members of the community

- Focused on the mission and vision for learning
- Examined current facility conditions and needs
- Reviewed student performance and engagement
- Reviewed school enrollment projections for next ten years
- Analyzed expenditures, revenues, and future forecast

Introduction | Review

Goals for Learning Spaces

We believe our learning spaces should include...

1 Common Spaces

Open, flexible common spaces that promote collaboration, teamwork, movement, and play

2 Classroom Spaces

Large, flexible classrooms that allow for project-based learning, collaboration, and movement

3 Quiet Spaces

Enclosed, soundproof spaces for individual reflection and quiet work time

4 Furniture & Seating

Multiple options for comfortable seating and standing which can be reconfigured to promote student agency in creating the environment that best meets their learning needs

5 Outdoor Spaces

Outdoor learning spaces which support the integration of the environment and academic learning

6 Accessible Resources

Accessible physical and digital resources, materials, and tools to facilitate student creativity and exploration



Introduction | Review

Considering the Options

Board of Education held three workshops to consider the findings of the study, gather additional information, and consider options:

- Renovate all existing schools
- Consolidate and renovate schools
- Change grade configurations
- Build new schools – 3
- Consolidate and build new school(s)

Introduction | Review

Engaging the Community – Winter 2018

Brought options to the community for feedback – more than 200 people participated. Provided information on:

- Enrollment
- Condition and needs of current buildings
- State revenues
- Reimbursement grants from State of CT
- Research on school size and grade configuration
- Sustainability
- Transportation
- Mission and Vision for Learning
- School design practices today

Introduction | Review

Summary of Community Input

- Educational programs and sense of community must remain strong
- Maintaining three schools is costly, renovations would be disruptive and may not be reimbursed by state
- Building should support goals of education system
- One school supports fiscal and educational needs
- One school reduces energy costs and some staff overlap
- One school allows for improved facility such as gym and cafeteria space; flexible learning spaces; and spaces designed to meet variety of student needs
- Bringing students and teachers together increases diversity, supports collaboration, strengths programs, and enhances social experiences

Introduction | Review

BOE and Town Council Actions

- BOE requested that a School Building Committee be created to build one new elementary school in a central location
- Town Council created a School Building Committee
- School Building Committee has hired an Owner Representative (Collier's International) and Architect (TSKP Studio)
- Variety of sites in the center of town are undergoing examination
- Building conceptual design and educational specifications under development

Elementary School Design | DESIGN GOALS

- Child-Friendly
- Small Scale
- Bright & Inviting
- Flexible & Multi-Use
- Integrate with Nature
- Sustainability

Community Aspirations
Building for the Future

Presented to School Building Committee
August 23, 2018

The district should make flexible, purposeful use of common spaces to promote collaboration, teamwork, and play.

Goal 1: Common Spaces

1 Common Spaces
Open, flexible common spaces that promote collaboration, teamwork, movement, and play

Common spaces may include:

- Large, flexible spaces with different configurations depending on the desired use, including:
 - Small and large group collaboration
 - Individual, quiet work time
 - Teacher planning
 - Open spaces for movement and play
- Designed, welcoming spaces for family and community engagement



Source: <http://www.anaa.coop.com.au/projects/2016/06/01/anaa-coop-school-redevelopment-build/>

District Management Group



Elementary School Design | Child Friendly



Elementary School Design | **Child Friendly**



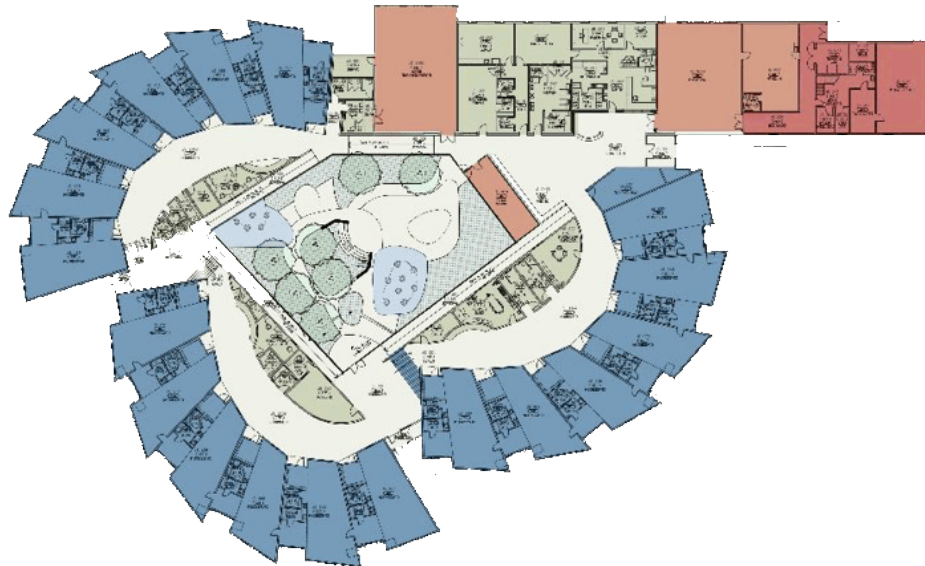
Elementary School Design | Child Friendly



Elementary School Design | **Child Friendly**



Elementary School Design **Small Scale**



Elementary School Design **Small Scale**



Elementary School Design | **Bright & Inviting**



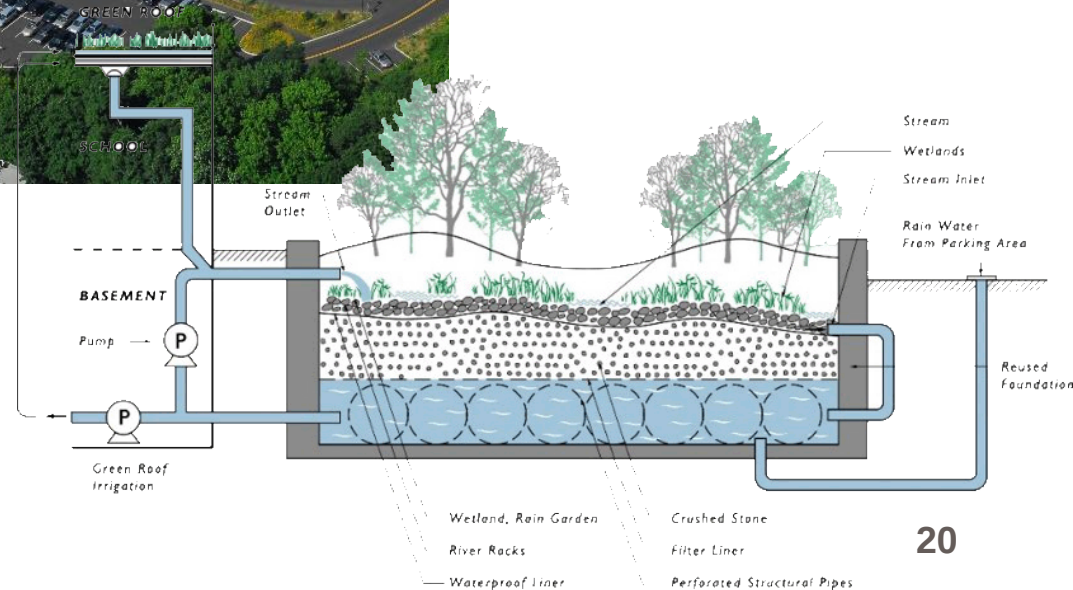
Elementary School Design | **Bright & Inviting**



Elementary School Design | **Flexible & Multi-Use**



Elementary School Design | Sustainability



Elementary School Design | Sustainability



What We Observed | Cafe-Gymnasium and Other Phys Ed



What We Observed | Dining Rooms vs. Mess Halls



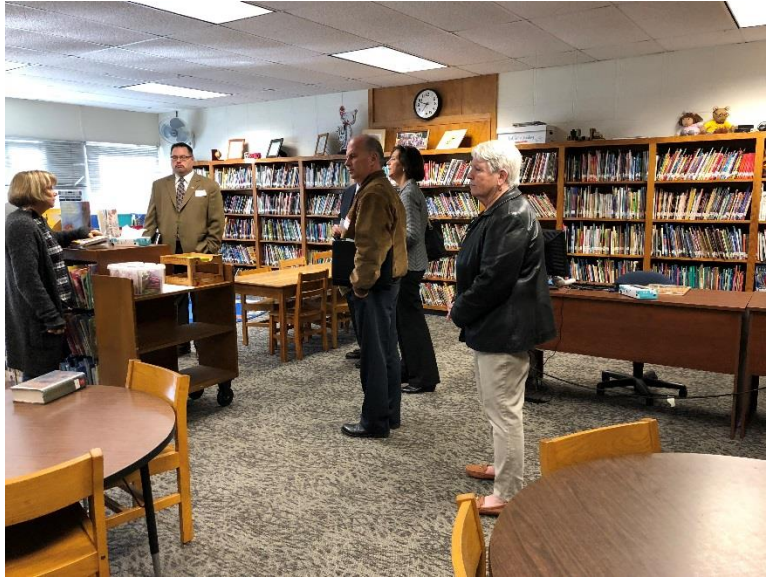
What We Observed | Lockers in Corridors



What We Observed | Accessory Structures



What We Observed | Small Libraries



What We Observed | Small Music Rooms



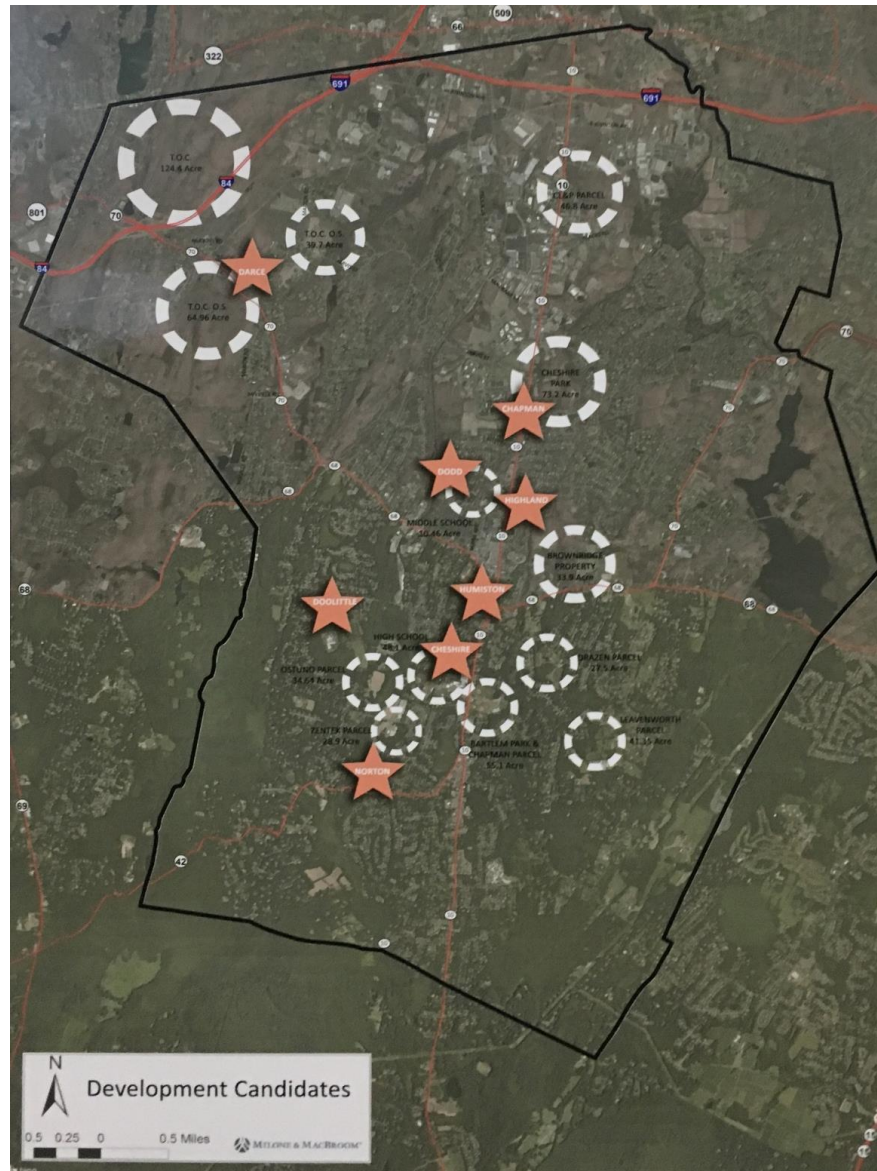
What We Observed | Teacher Innovation



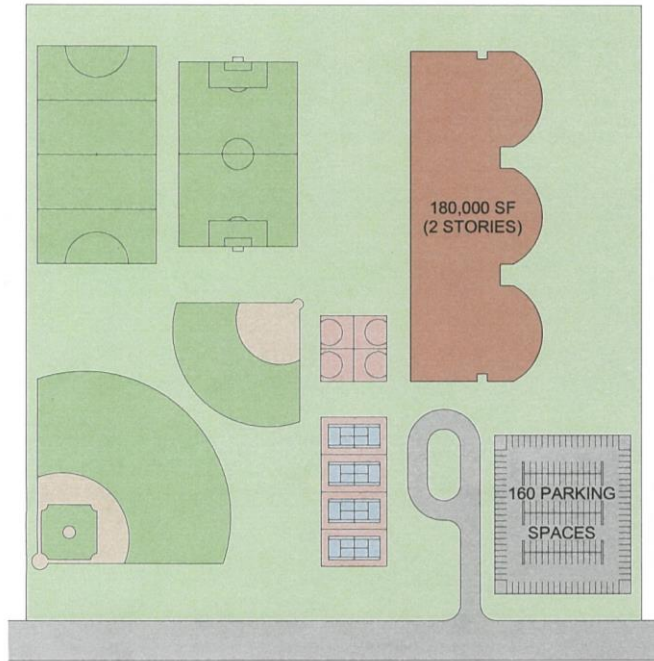
What We Observed | Teacher Innovation



Site Evaluation & Selection | Example

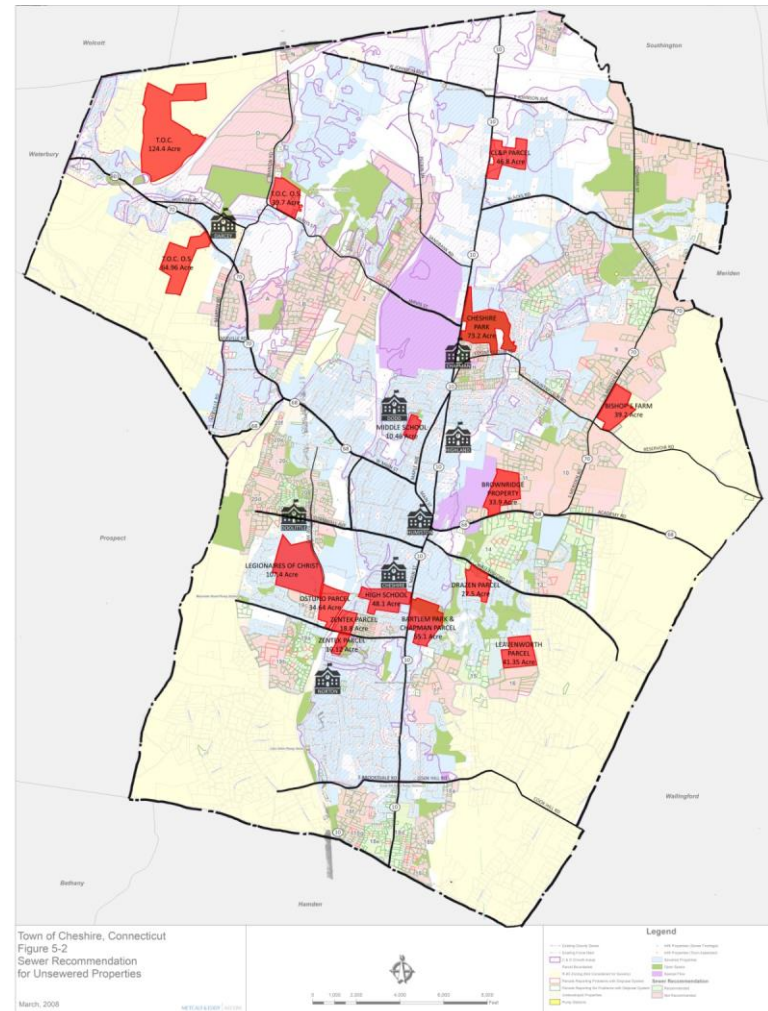
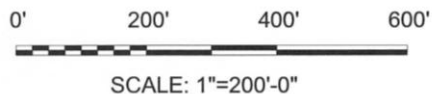


Site Evaluation & Selection | Example: Ideal Site



IDEAL SITE

- 20 ACRES MINIMUM
- PLAYFIELDS AS SHOWN
- 1000 TO 1200 PUPILS, GRADES 6, 7, AND 8
- BUILDING = 170,000 SF TO 190,000 SF



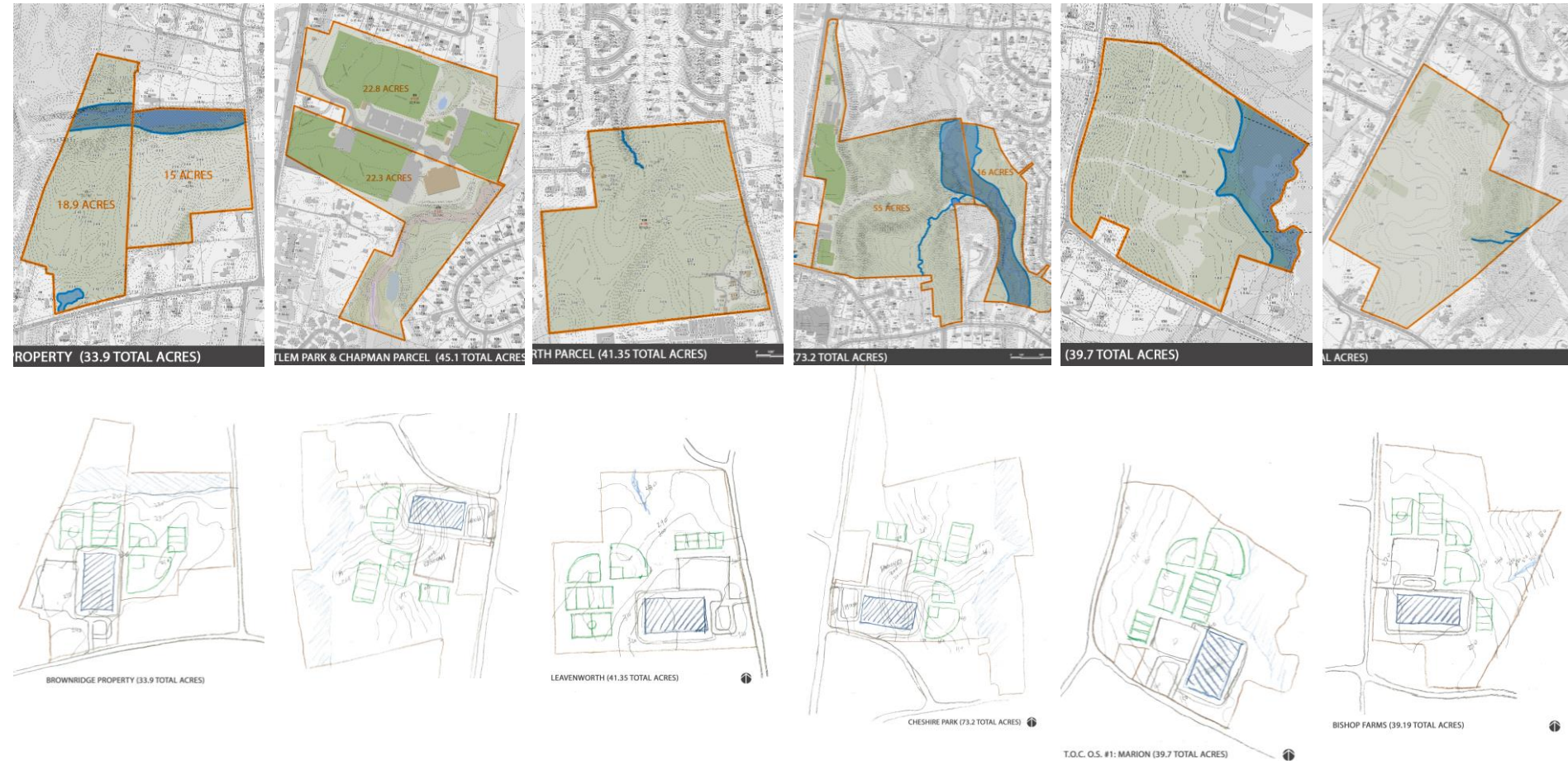
Site Evaluation & Selection | Example: Evaluation Matrix

Property Name	Location	Approx. Acreage	Total Score	Adequate Useable Land (without steep slopes, wetlands, etc.)	Site Access (Traffic, Street Quality, Frontage, etc.)	Location (Distance From Town Center)	Surroundings (Residential, Industrial, Highways, etc.)	Utilities	Acquisition Cost	Swing Space Required	Demolition Cost	Environmental Concerns	Affects Public Land
1 Drazen Parcel	251 Wallingford Rd	27.5	31	4	2	1	2	5	1	5	5	1	5
2 High School Site	525 South Main St	48.1	0	-	-	-	-	-	-	-	-	-	-
3 Brownridge Property	Academy Rd	33.9	39	3	5	5	5	4	1	5	5	1	5
4 Bartlem Park & Chapman Parcel	520 South Main St	55.1	34	5	1	5	5	5	5	3	1	3	1
5 Dodd Middle School	100 Park Pl	10.46	0	-	-	-	-	-	-	-	-	-	-
6 Ostuno Parcel	650 Oak Ave	34.64	0	-	-	-	-	-	-	-	-	-	-
7 Zentek Farms	325 Higgins Rd	28.9	26	1	1	2	5	?	1	5	5	1	5
8 Leavenworth Parcel	749 Coleman Rd	41.35	39	4	5	4	4	5	1	5	5	1	5
9 Cheshire Park	Highland Ave	73.2	44	5	5	4	4	5	5	5	5	5	1
10 Eversource Parcel	1550 Highland Ave	46.8	35	3	5	1	2	5	1	5	5	3	5
11 T.O.C. O.S. #1 - Marion Road	Marion Rd	39.7	37	5	2	1	5	3	5	5	5	5	1
12 T.O.C. O.S. #2 - Mixville Hills	Waterbury Rd	64.96	36	4	3	1	5	2	5	5	5	5	1
13 350 Knotter - Alexion Parcel *	350 Knotter Dr	75	31	4	4	1	1	5	1	5	1	4	5
14 T.O.C. O.S. #3 - I-84	Musso View Ave	124.4	26	1	1	1	1	1	5	5	5	5	1
15 Seminary	Oak Ave	90	34	5	2	2	3	5	1	5	3	3	5
16 Bishop Farms	Reservoir Rd	39	41	5	5	5	5	4	1	5	5	1	5

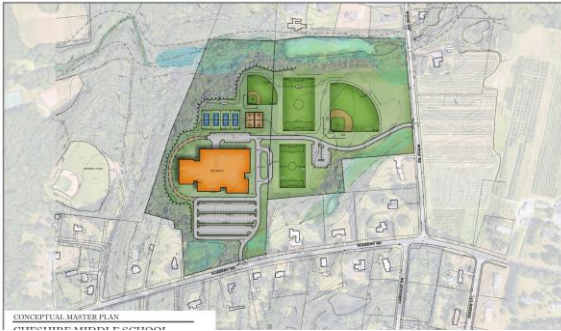
(Scores 1-5 where 1 is poor and 5 is excellent. A dash represents inappropriate site)

* Existing Building Needs Study

Site Evaluation & Selection | Example: Create Shortlist



Site Evaluation & Selection | **Example: Reduce Shortlist**



Site 1 \$9,900,000

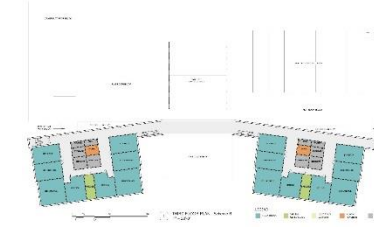
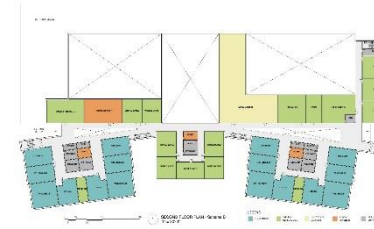
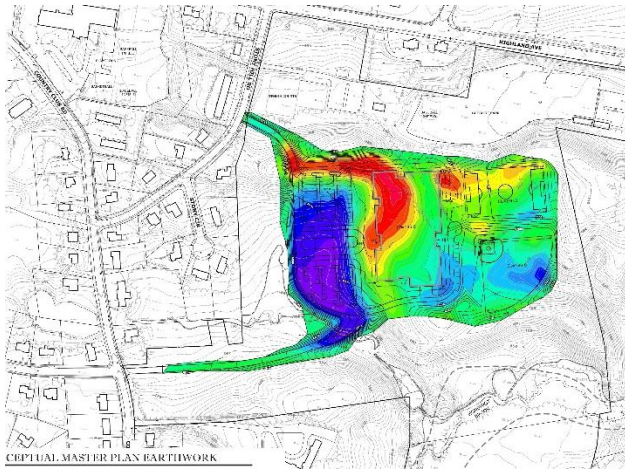


Site 2 \$9,000,000



Site 3 \$8,900,000

Site Evaluation & Selection | Example: Schematic Options



Scheme B



Scheme C

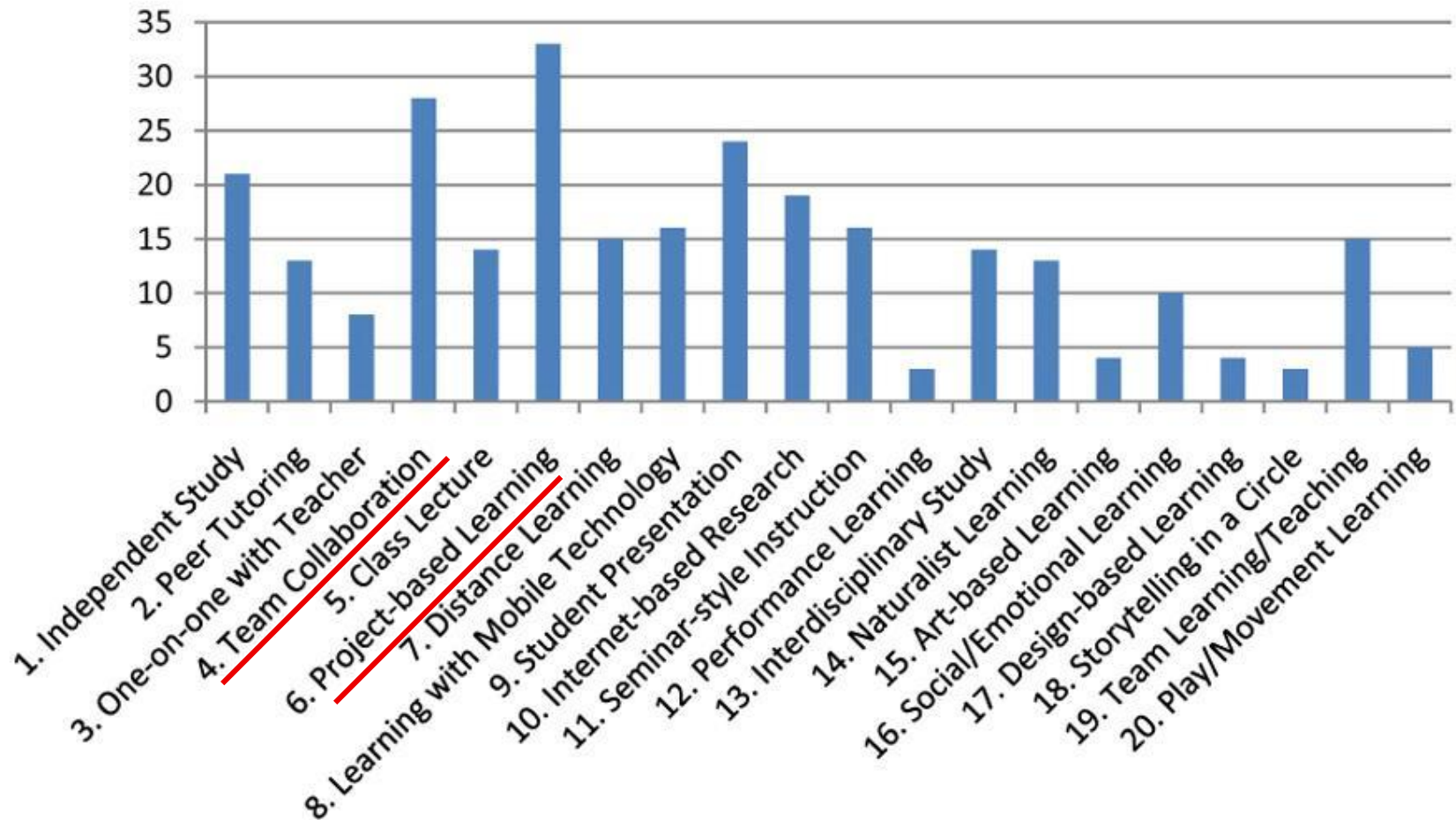
Educational Programming | Understanding Childhood



1880 "The Baby's Bouquet" by Walter Crane



Educational Programming | Learning Modalities

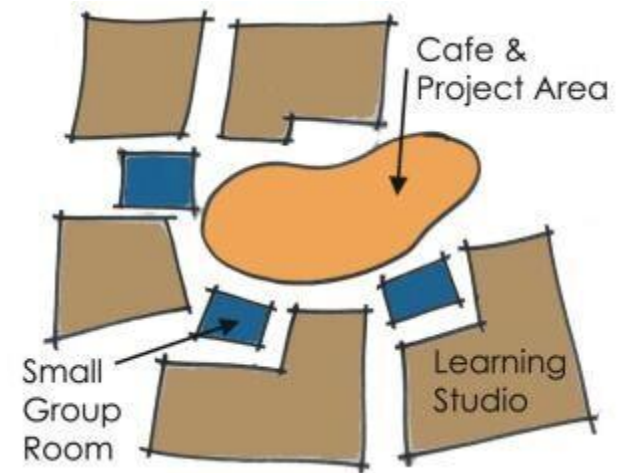


Source: Focus group sessions conducted by Fielding Nair for Billings Public Schools in 2011.

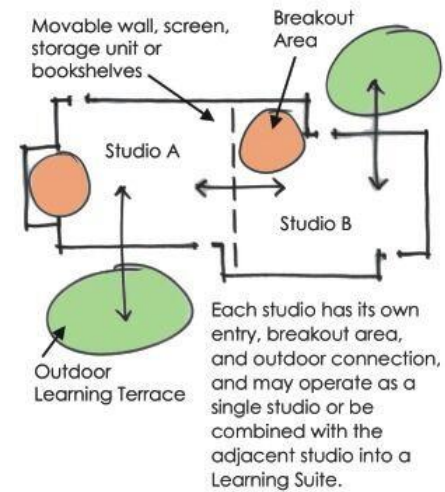
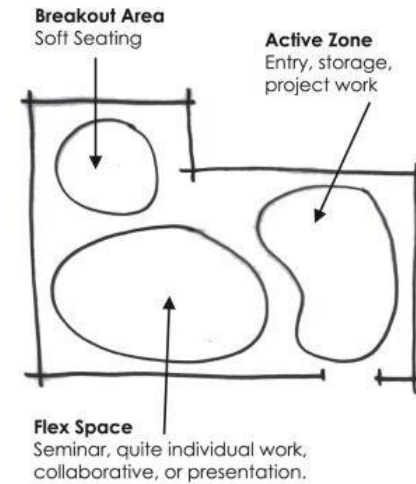
Educational Programming | **Learning Modalities**



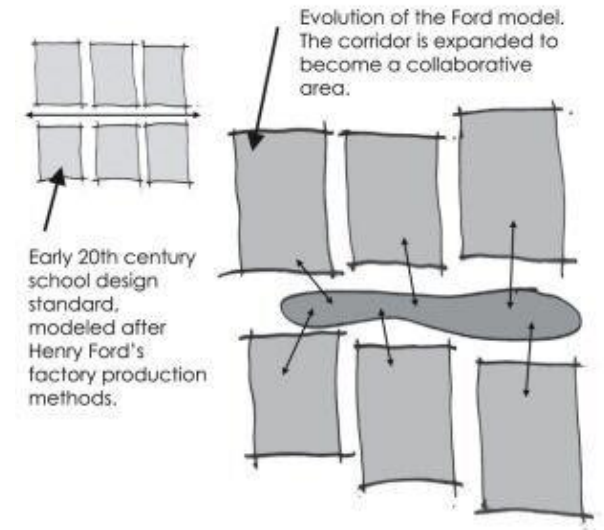
Educational Programming | Breakout Areas



Educational Programming | Variety of Spaces



Educational Programming | Multi-Use Corridors



Educational Programming | Outdoor Learning



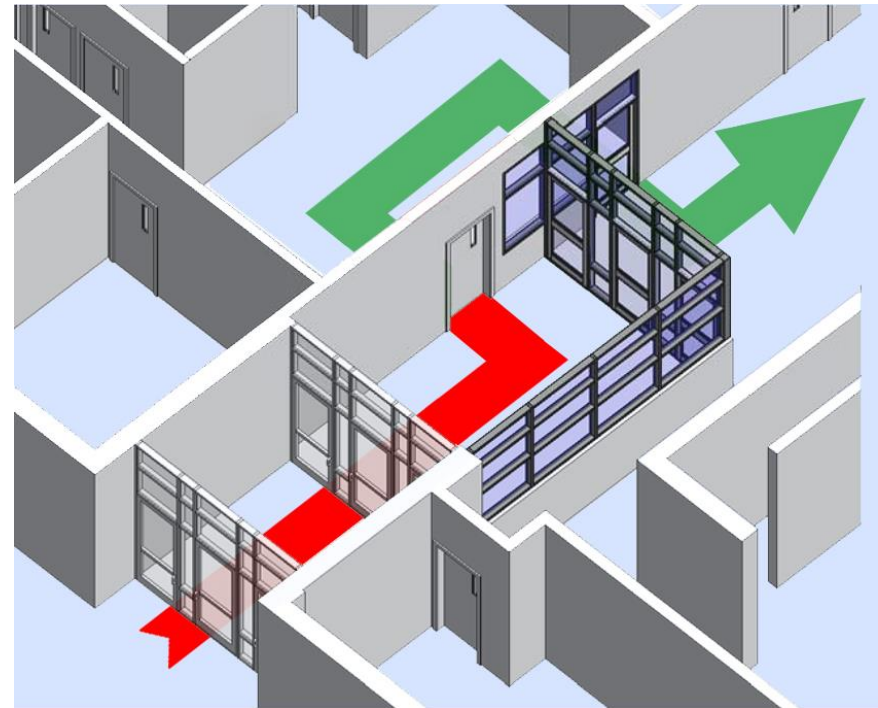
Educational Programming | Moveable Furniture



Design for Security | **Controlled Environments**

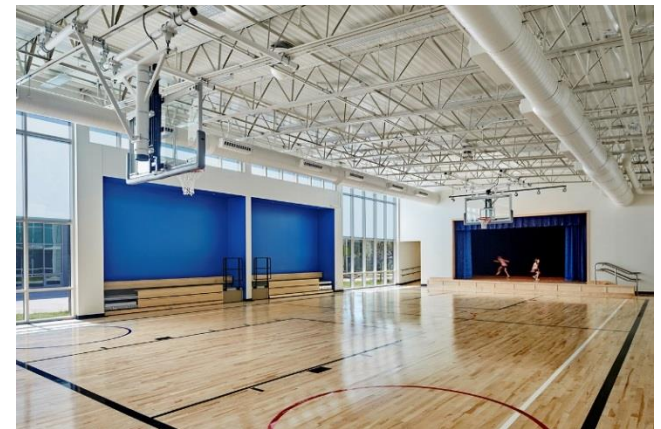
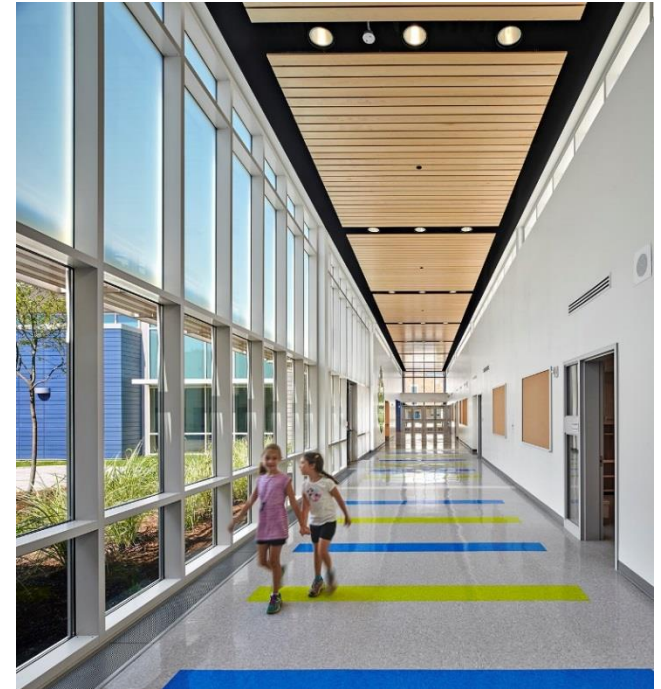
The Challenge is to Balance Security Concerns with the Overarching Goal of Providing a School Building that will Welcome and Inspire Children.

- Working Directly with First Responders
- Bring in an Expert Early in the Process
- Combination of Active and Passive Design Features
- Be Aware of Sight Lines
- Finding the Right Answers for your School & Community.



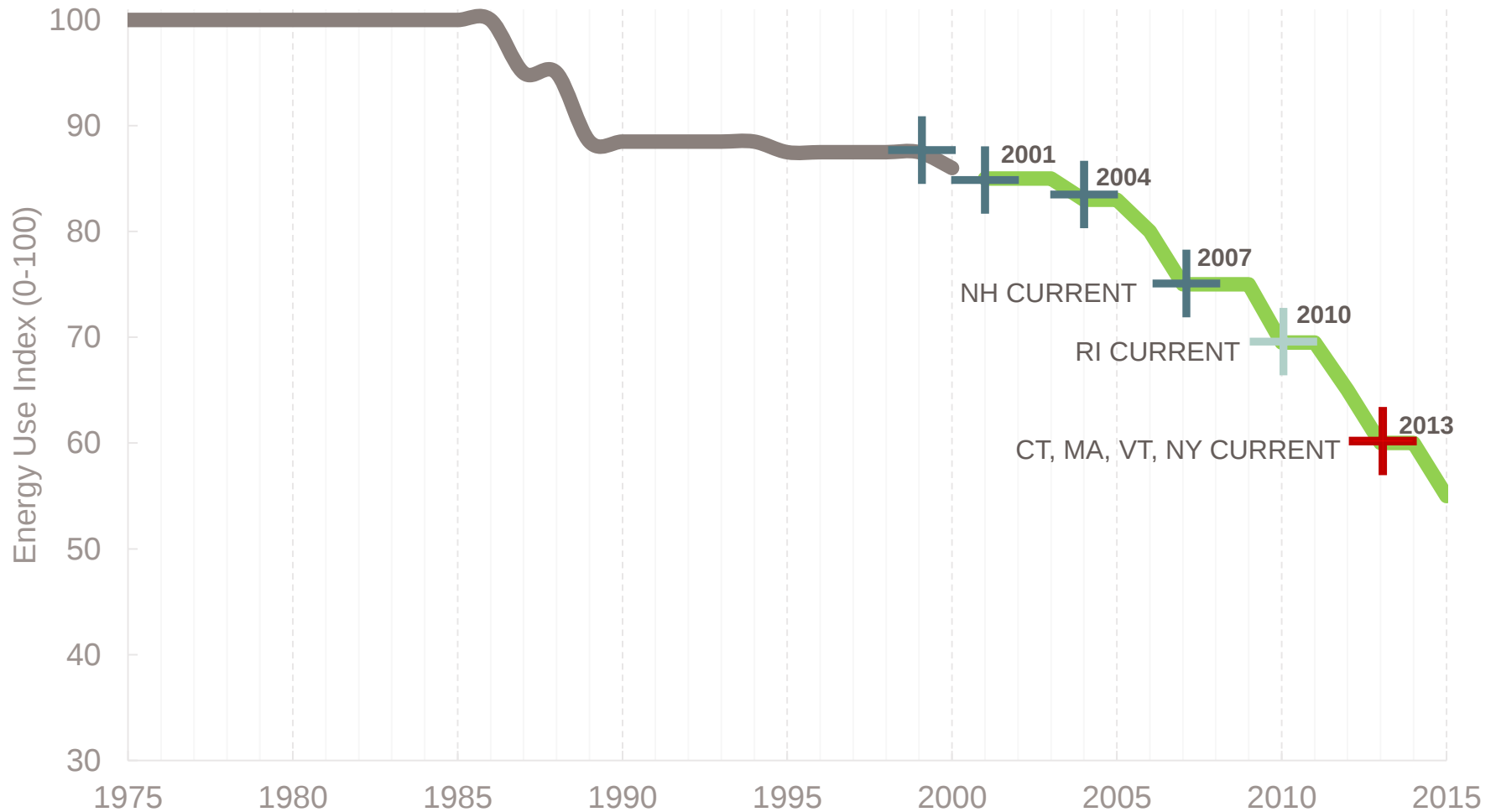
Sustainable Design | Experience

- Greene-Hills K8 School
- Victoria Soto Elementary School
- Guilford High School
- Stamford Environmental Magnet
- Wintonbury Early Childhood
- Fairfield Woods Middle School
- Waddell Elementary School
- Verplanck Elementary Schools
- Kingswood Oxford School

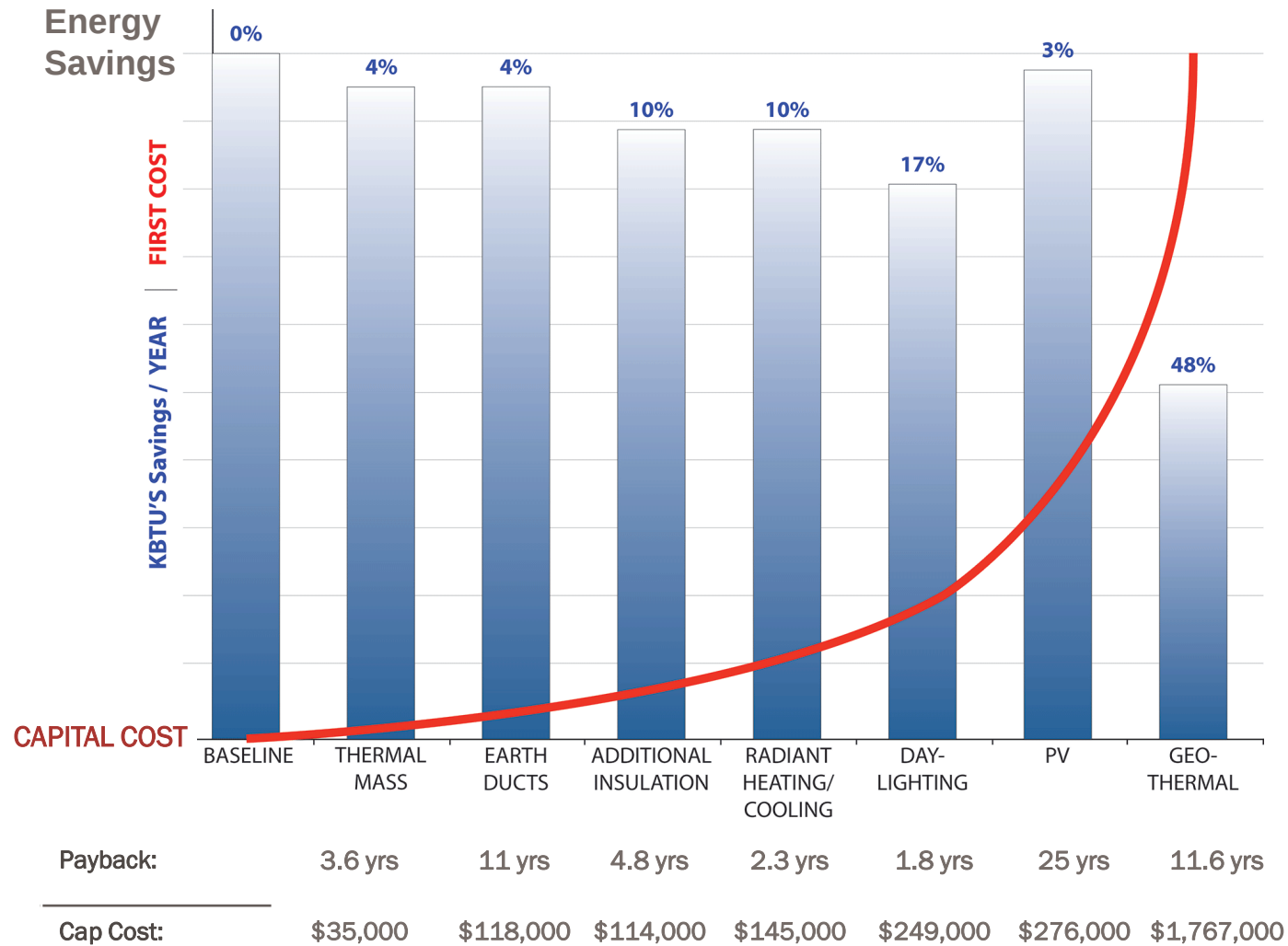


Green Design | Energy Code & Net Zero

ASHRAE 90.1-2013 | IECC 2015



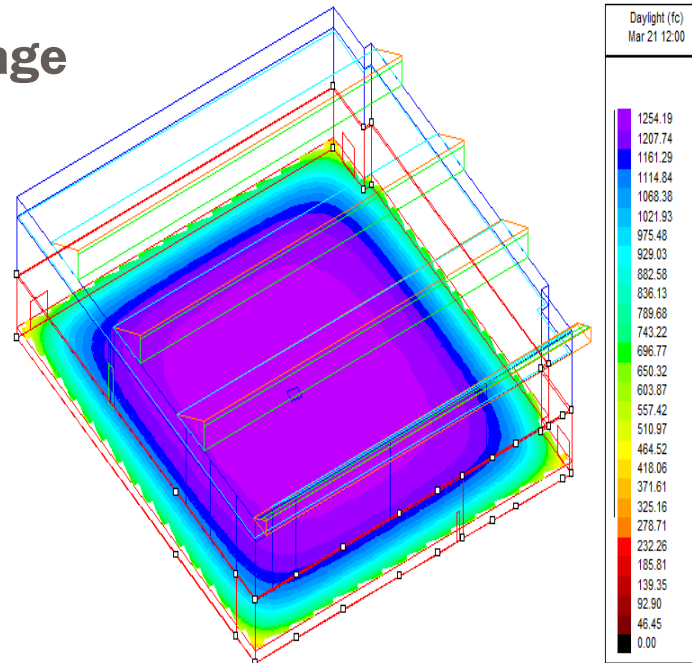
8 Sustainable Design | Energy



Sustainable Design | **New Educational Facility**

- Envelope
- Daylighting + LED Lighting
- Radiant Floor Heating + Cooling
- Energy Recovery + DCV
- Cogeneration
- Thermal Ice Storage

Radiant Heating/Cooling Floors Installation

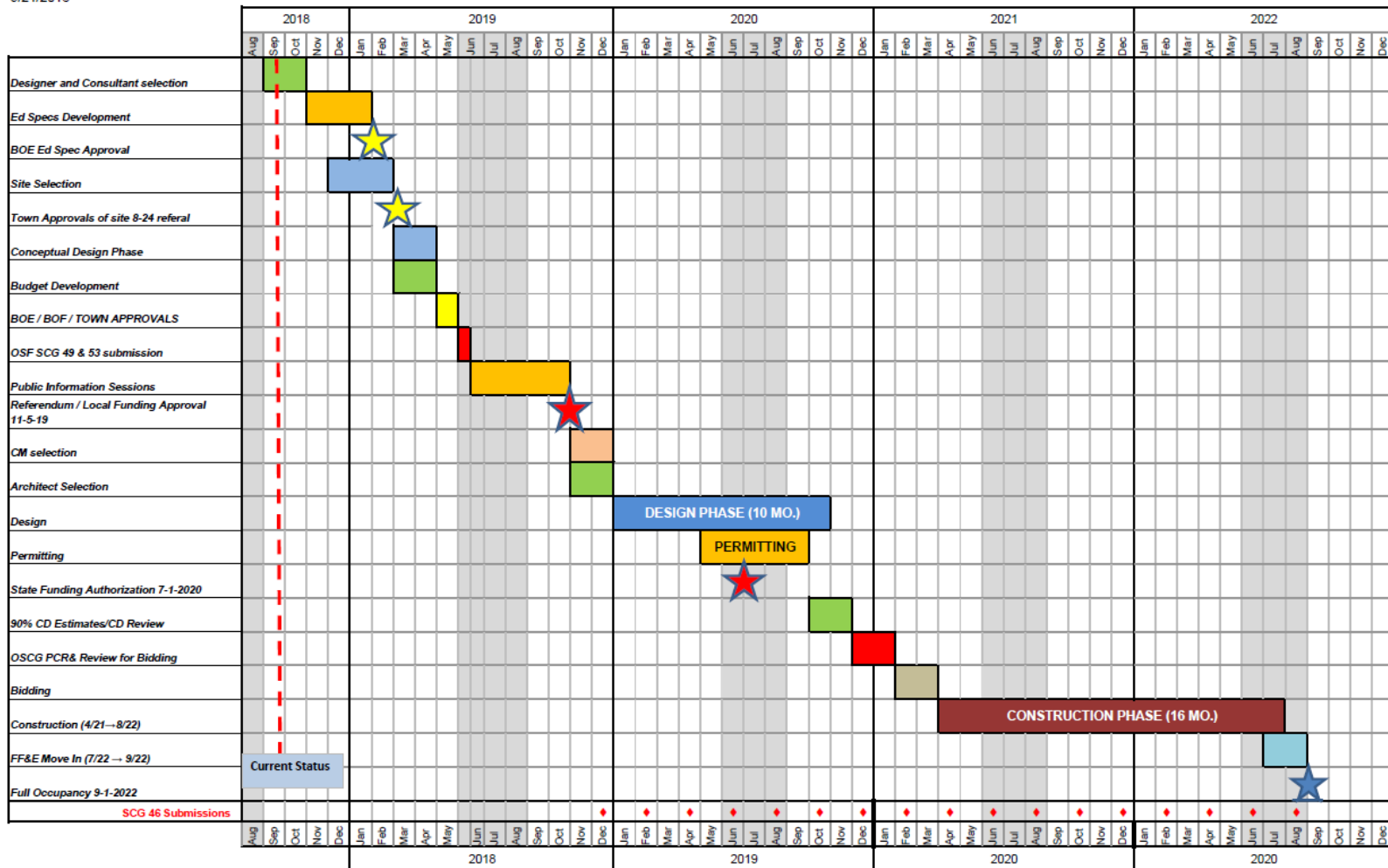


DRAFT

Project Schedule | Major Tasks

Mansfield Public Schools
conceptual schedule
9/21/2018

Appendix - B



Q & A | Conclusion

