

Building Project
November 20, 2019









Mark Armington Community Member and Engineer

Jeff Berthiaume Director of Technology and Digital Learning

Tina Boss School Principal, Elementary School

Harry Brooks SBC Chair, Member Board of Selectmen

Chris Clark Community Member and Parent

Chris Fontaine School Principal, Leicester Middle School

David Genereux Town Administrator, SBC who is MCPPO certified

Tom Lauder School Committee

Kristina Looney Leicester MS Teacher, Music Education

Cady Maynard Director of Finance and Operations

Dennis McGrail Finance Advisory Board and Parent

Paul McCarthy Community Member and Parent

Jim Reinke Committee Member/Contractor

Marilyn Tencza School Superintendent

David White Local Official for Building Maintenance

Eileen Boisvert Community Member and Parent

Tim Hickey Community Member and Parent

August 28, 2019 MSBA Board Vote: Preferred Alternative

August 2019 Begin Schematic Design

February 2020 Complete Schematic Design to MSBA

April 2020 MSBA Board Vote:

Project Scope and Budget Agreement

June 6, 2020 Town Meeting – Funding Approval

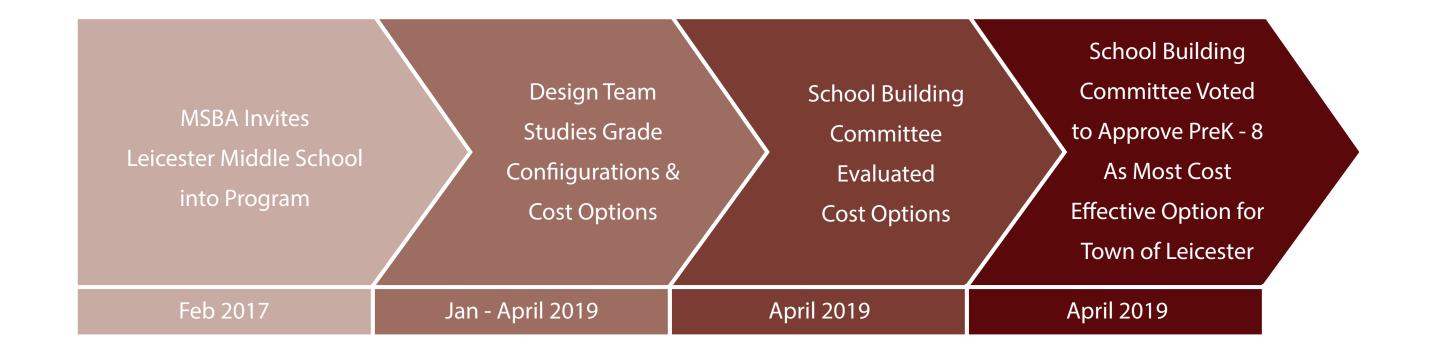
June 9, 2020 Election



Building Authority

2019 Base Reimbursement Rate for Leicester is 59.21%

- Applies only to eligible school project costs
 Limits site reimbursement
 Limits size of project and cost/SF
 - Does not apply to auditoriums and playing fields
- Rate may be increased for incentive points
 Sustainable Design 2.0% (LEED Silver)
 Maintenance Program 1.72%
- Incentive points subject to change by the MSBA



Grade Configurations / Building Options	Elementary School	Leicester MS	New School - Fields	Total Project Budget Costs (Constr. Costs + Soft Costs)	District Share	State Share	Annual RE Tax Impact (Average Home Assessment of \$244,650)	Remarks	
Grades 5-8: Add/Reno to Existing LMS	\$ -	\$ 45,500,000	\$ -	\$ 58,000,000	\$ 28,500,000	\$ 29,500,000	\$ 519		
Grades 5-8: New Stand Alone Building in Fields	\$ -	\$ -	\$ 48,000,000	\$ 60,700,000	\$ 33,900,000	\$ 26,800,000	\$ 617		
Grades PK-8: New Stand-alone PK-8 in Fields (Preferred Option)	\$ -	\$ -	\$ 70,200,000	\$ 87,000,000	\$ 45,500,000	\$ 41,500,000	\$ 832	Preferred Option as discussed by SBC	
Grades PK-8: Add/Reno to Existing LMS (PK-8)	\$ -	\$ 62,100,000		\$ 78,000,000	\$ 37,500,000	\$ 40,500,000	\$ 682		
Grades PK-8: Add/Reno to Existing LMS (5-8); Add/Reno to Elementary School (PK-4)	\$ 23,800,000	\$ 45,500,000		\$ 86,500,000	\$ 57,000,000	\$ 29,500,000	\$ 1,037	All Elementary School Costs are District costs; no reimbursement from the State; (2) Separate Schools	

Notes/ Frequently Asked Questions (FAQ):

- 1) MSBA will not participate in any construction costs to Elementary School.
- 2) Elementary School Addition/Renovation based upon costs to upgrade school to 21st century learning/ MSBA Guidelines.
- 3) A PK-8 Add/Reno option to the Elementary School is not practical given area and topography limitations.
- 4) Options if vote fails: One option vote again on same MSBA approved Project (PK-8); otherwise start over.

	Total Project Cost	State Share (MSBA)	District Share (Leicester)	
Renovate Existing Elementary and Middle Schools *	\$31,068,545	\$0	\$31,068,545	
New Pre-K - 8 School:	\$87,000,000	\$41,500,000	\$45,500,000	

^{*} Johnson Roberts Maintenance Report - 2014 with Project Cost for 2019 (3% escalation/year)

Visioning Workshop # 1: January 29, 2019

Visioning Workshop #2: February 5, 2019

School Tours: February 14, 2019

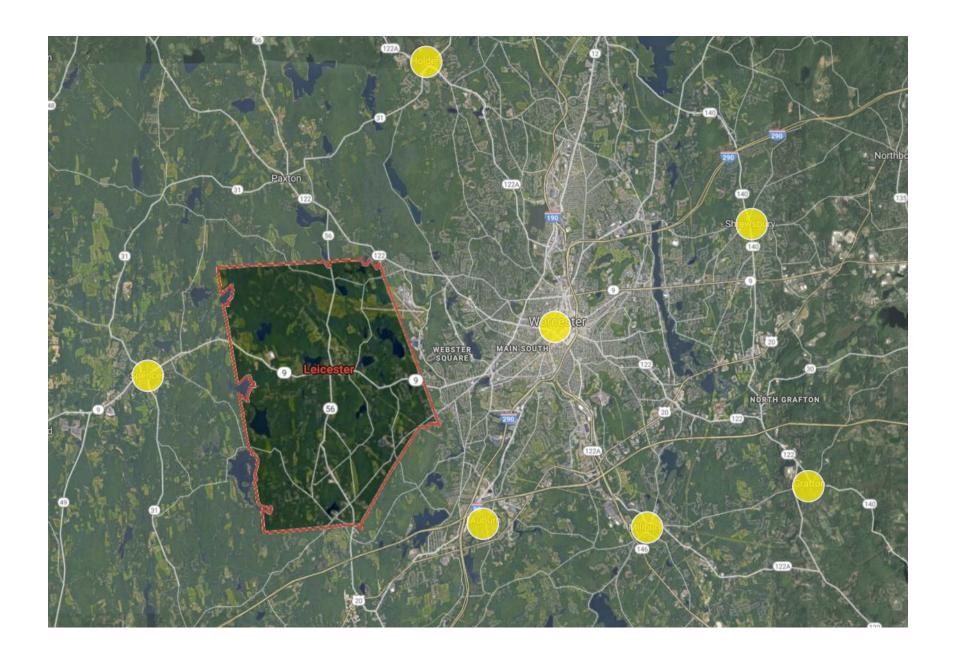
Visioning Workshop #3: February 29, 2019

Faculty Workshop: March 5, 2019



Guiding Principles for Design

- 1. Innovation and Engagement
- 2. Collaboration and Cooperation
- 3. A Place You Want to Be
- 4. Community Access
- 5. Adaptability and Flexibility
- 6. Outdoor and Nature Connections
- 7. Sustainability



Spencer

David Pouty High School - Eligibility

Worcester

Doherty Memorial High School - Eligibility

Millbury

Raymond E. Shaw Elementary School - Design

Worcester

South High School - Construction

Shrewsbury

Beal Early Childhood Center - Construction

Holden

Mountview Middle School - Completed in 2016

Auburn

Auburn Middle School - Completed in 2015

Grafton

Grafton High School - Completed in 2012

LEICESTER MIDDLE SCHOOL SITE PLAN

LEGEND

- 1 CAMPUS COMMONS
- 2 HARD SURFACE PLAY
- 3 K-5 PLAY
- 4 SCHOOL GARDEN
- 5 SENSORY GARDEN
- 6 AMPHITHEATER COURTYARD (FLEX-USE)
- 7 PRE-K-2 PLAY
- 8 EDUCATIONAL TRAIL
- 9 RENOVATED + NEW TENNIS COURTS
- 10 NEW SOFTBALL FIELD
- 11 SECONDARY ENTRANCE + OUTDOOR DINING
- 12 PRIMARY ENTRANCE + PLAZA
- 13 BASEBALL FIELD
- 14 NEW SYNTHETIC TURF + RECONSTRUCTED TRACK
- 15 BLEACHERS, PRESSBOX CODE RETROFIT
- 16 SERVICE AREA

PARKING 190 SPACES (9' X 18')



LEICESTER SCHOOL CAMPUS PROPOSED SPORTS LAYOUT

LEGEND

- YOUTH SOCCER, (3) 50'X80' AND (1) 90'X150'
- BASKETBALL, (1) HALF COURT, (1) FULL COURT
- 3 RECONSTRUCTED TRACK
- 4 SYNTHETIC TURF FIELD, (3X USE, FOOTBALL, SOCCER, FIELD HOCKEY)
- 5 BASEBALL FIELD, 330' OUTFIELD
- 6 VARSITY SOCCER, 195'X330'
- U-12 SOCCER FIELD (210'135') AND FOOTBALL PRACTICE
- 8 SOFTBALL FIELD, 225'OUTFIELD
- 9 RENOVATED TENNIS COURTS, (4)
- 10 NEW TENNIS COURT (1)

TRACK AND FIELD EVENTS

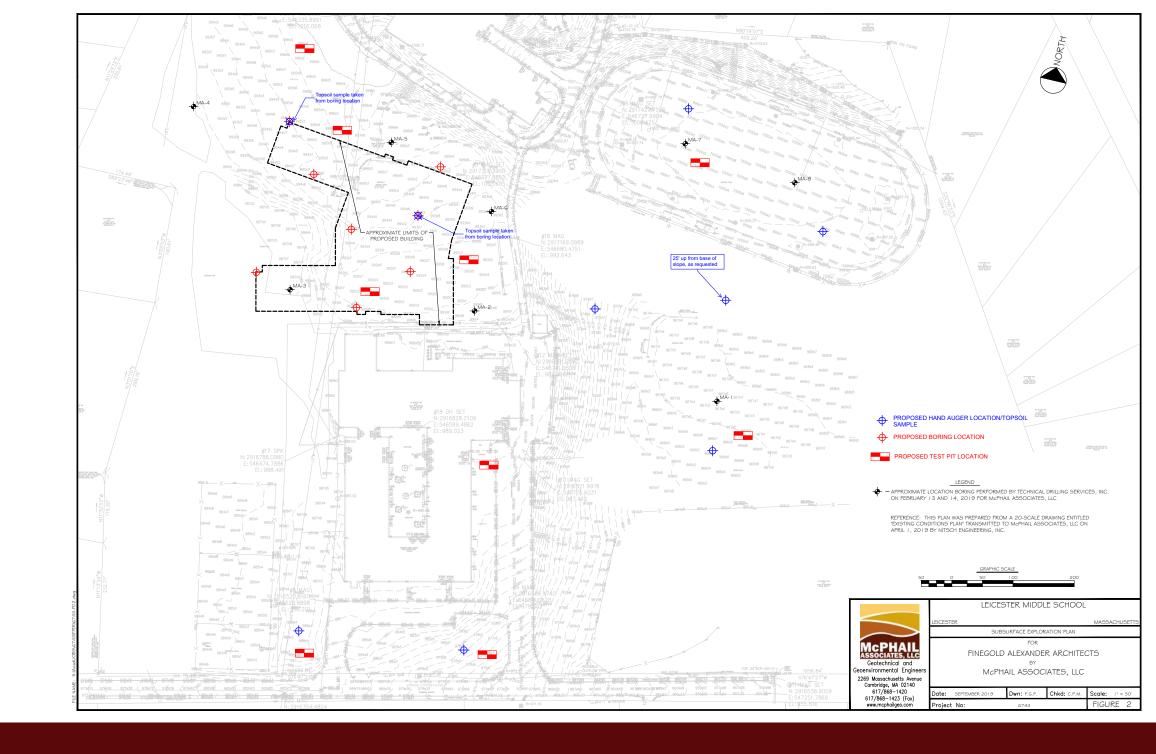
LEGEND

- A DISCUS
- B LONG JUMP
- C SHOTPUT
- **D** JAVELIN
- HIGH JUMP

CROSS COUNTRY

NEW PATHWAYS TO PROVIDE OPPORTUNITIES FOR X-COUNTRY COURSE





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V.STIFF HARD



Memorandum

Date: October 1, 2019

Recipient: Finegold Alexander Architects

Regan Shields Ives and Christopher Lane

Sender: Jonathan W. Patch, P.E.

Project: Leicester Middle School

Project No: 6743.2.00

Subject: Preliminary Geotechnical Review of Proposed Building Location

The purpose of this letter is to confirm that the preliminary foundation design recommendations contained in our Preliminary Foundation Engineering Report (PFER) dated April 1, 2019 are still applicable to the proposed construction now that the location of the proposed building on site has been determined.

The location of the proposed building on the site had not been determined at the time the subsurface exploration program was completed as part of our preliminary geotechnical study. As such, eight (8) borings were performed across the entire site for the purpose of obtaining subsurface information in order to provide preliminary foundation design recommendations not knowing where on site the building would be located. The borings indicated that the ground surface is underlain by a thin, surficial layer of topsoil. Below the topsoil, the perings encountered about 2 to 7 feet of uncontrolled fill which was underlain by a dense actural glacial till deposit. Groundwater was observed within five (5) borings upon competion of drilling at depths ranging between 6 and 8 feet below the existing ground sufface.

Recently, the proposed building location was determined and is in close proximity to borings MA-2, MA-3, MA-5 and MA-6 which encounterred the dense natural glacial till deposit at depths of 4 to 5 feet. Based on this preliminary boring information, it is recommended that foundation support for the proposed building be provided by conventional footing foundations in conjunction with slab-on-grade construction as outlined in the above-referenced PFER. Please reference the aforementioned PFER for additional recommendations regarding foundation design and building pad preparation.

Additional subsurface explorations (borings and/or test pits) will need to be performed to further delineate the depth to the natural glacial till deposit across the proposed building footprint. The information obtained from these explorations will be utilized to prepare a Final Foundation Engineering Report, however, at this time, it is not anticipated that the conditions observed within these explorations will result in an alteration of McPhail's foundation design recommendations as presented in the PFER. Lastly, it is not anticipated

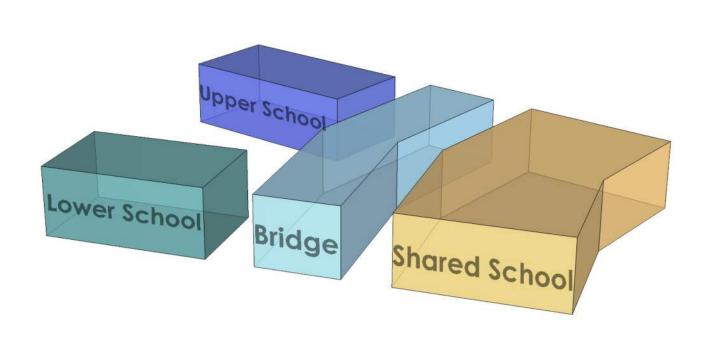
GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERS 2269 Massachusetts Avenue Cambridge, Massachusetts 02140 (617) 868-1420

Page 1 of 1

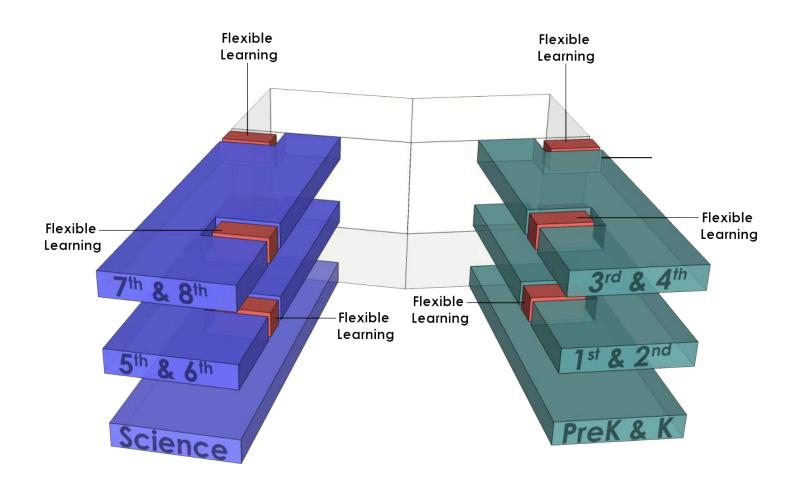
Page 1 of 2

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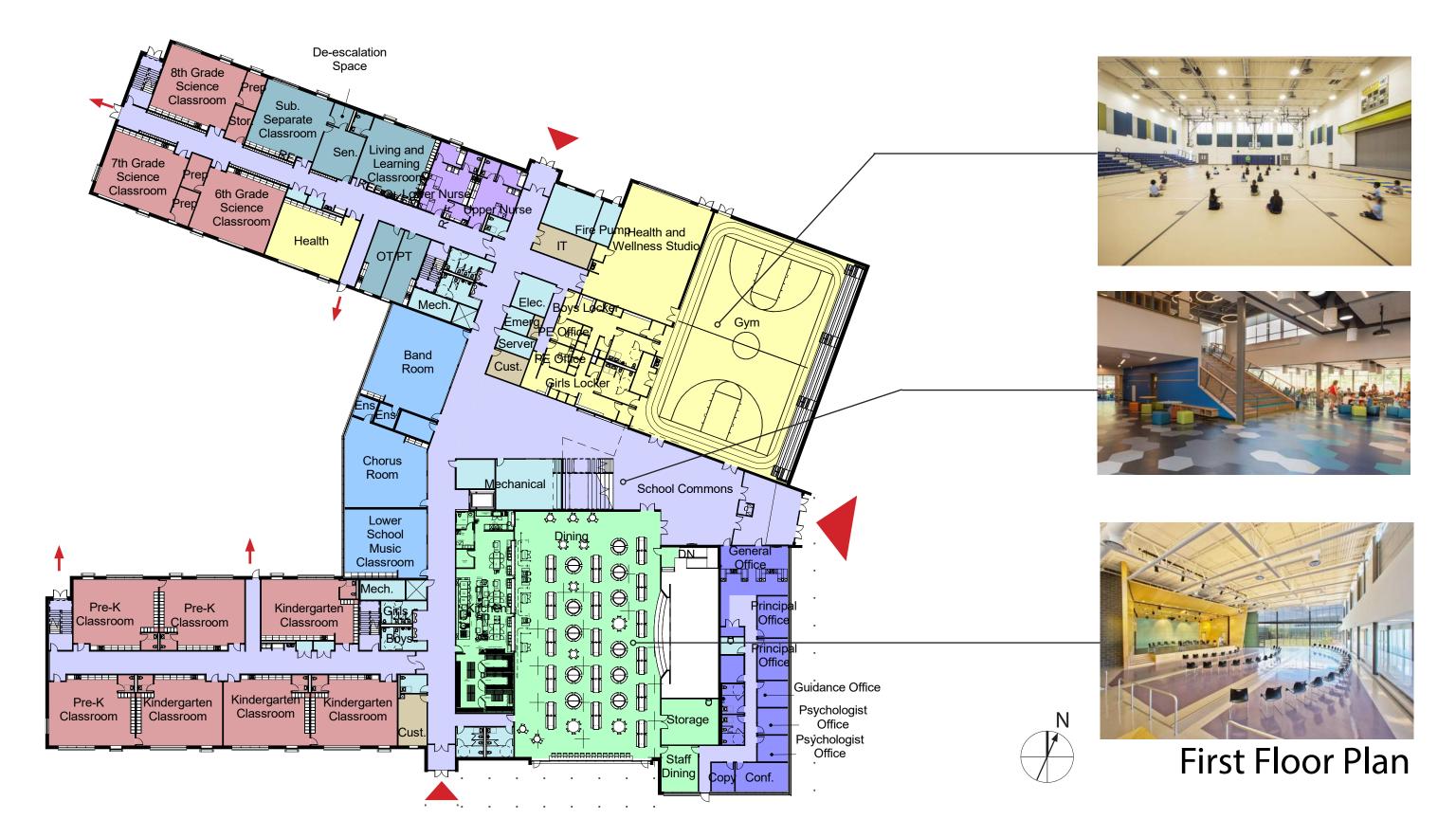




2 Schools, 1 Roof



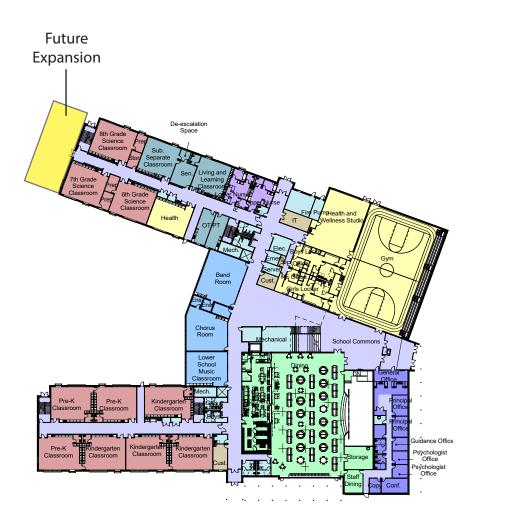
Grade Neighborhoods Flexible Learning Space

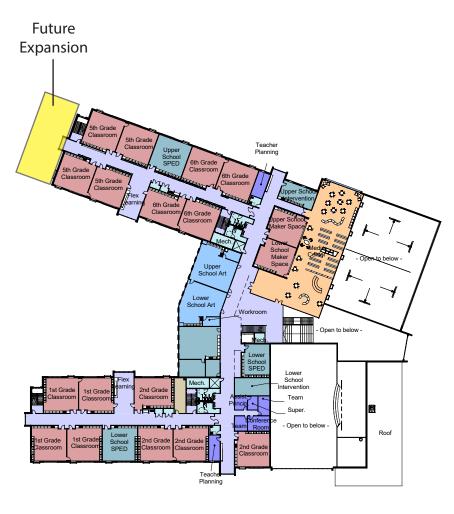


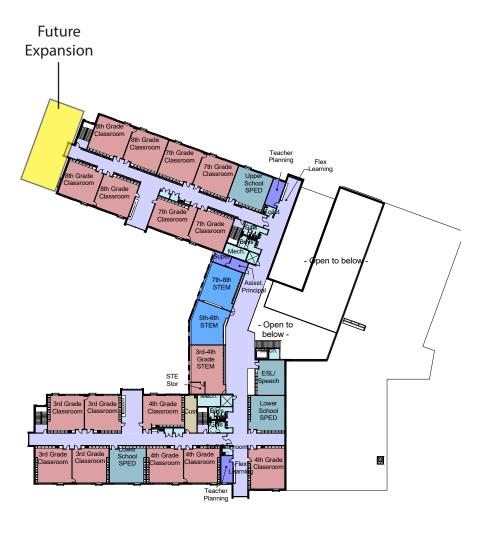




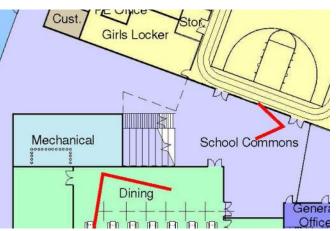






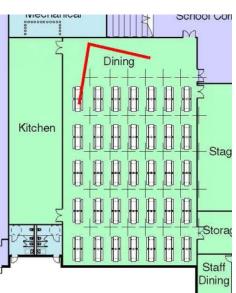




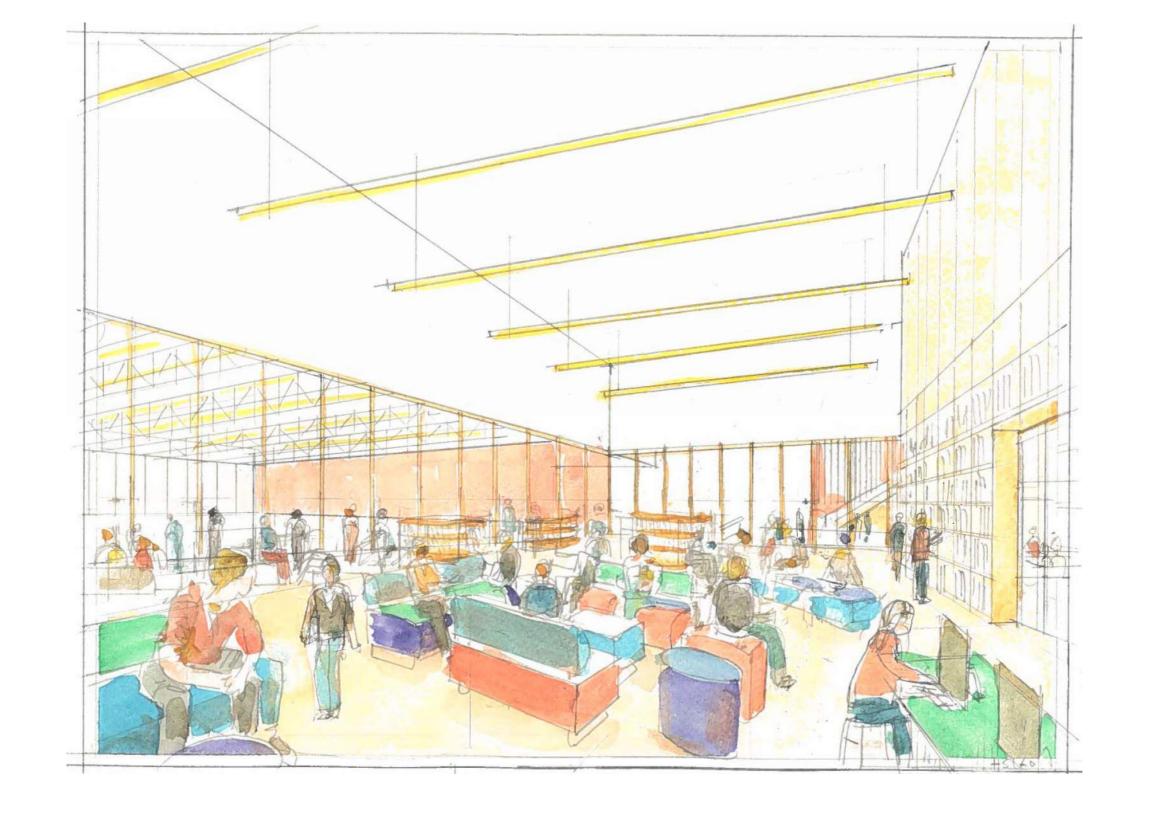


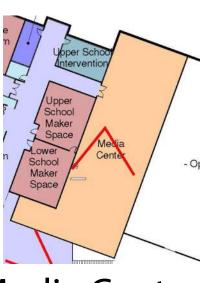
School Commons



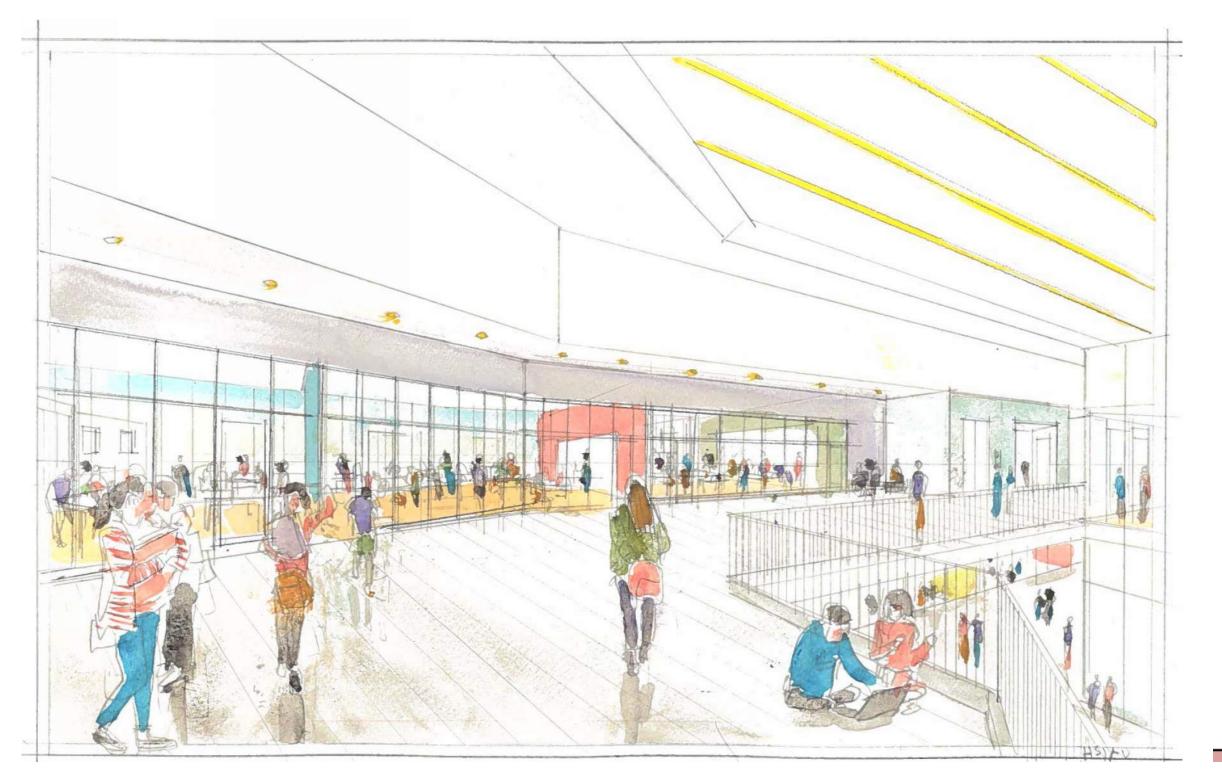


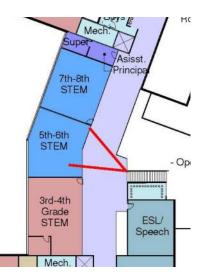
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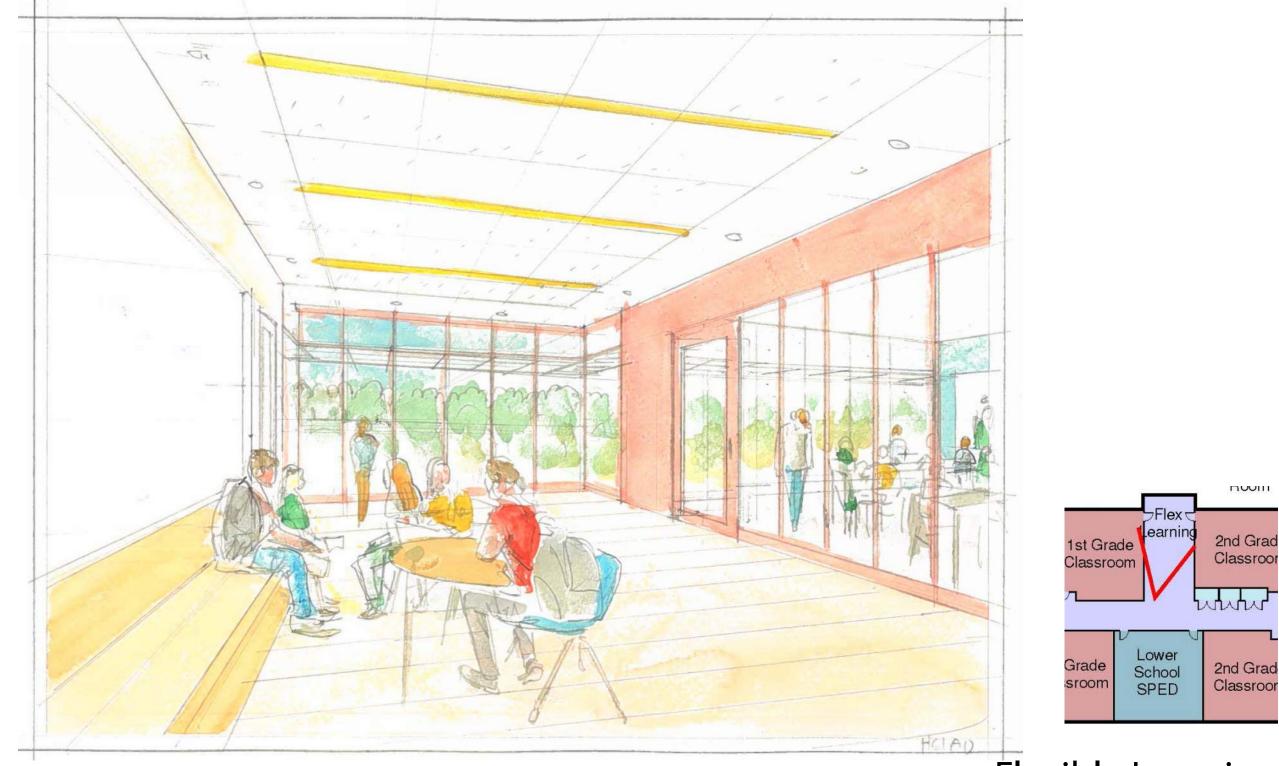


Media Center





STEM Space



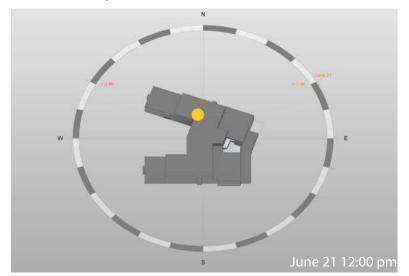
Flexible Learning

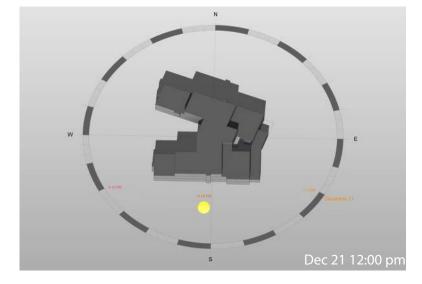


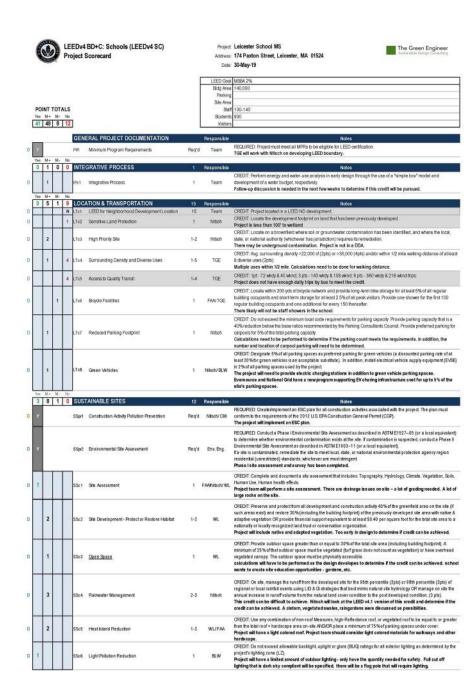


Sustainability Design Goals:

- 2 schools under one roof for building and site efficiencies
- ✓ Pursuing LEED-S V4 Silver
- Optimal solar orientation with classroom "wings" oriented north-south
- ✓ Durable, sustainable finish materials on interior for optimal indoor air quality
- "Wings" frame open outdoor classroom space oriented to wetlands
- Heat Loss Form Factor (compactness) is 1.38 which is exceptional







Sustainable Design Goals

Approved Enrollment: 930 Student Enrollment (Grades Pre-K - 8)

Approximate Project Size: 141,241 SF per MSBA Space Templates

Est. Construction Cost: \$494/SF* per Independent Est. Firms

Add Soft Costs: Approximately 25% of construction cost

Adjust for Escalation: Estimated 3% per year / year to

construction mid-point

New K-8 on Existing Site: Estimated Total Project Cost: \$87 mil

Estimated Facilities Grant: \$41.5 mil

Estimated District Share: \$45.5 mil

Estimated Average

Residential Tax Impact: \$832/year

*MSBA will reimburse up to \$333/SF

Total Project Budge Line Items (Major Exclusions)	Est	imated Budget	Excluded Value	<u>Notes</u>
Direct Building Costs	\$	41,440,000	\$ 15,895,000	1) Excluded - construction costs exceeding MSBA sf foot cost cap
GC's, Estimating Conting., Ins./Bonds, OH&P	\$	20,860,928	\$ 1,713,300	2) Excluded - GC costs based upon MSBA cap exclusion
Sitework	\$	4,777,140	\$ 1,461,940	3) Excluded - site costs above MSBA cap
Vinyl Asbestos Tile - Existing LMS	\$	250,000	\$ 250,000	4) Excluded - VAT categorically by MSBA

Notes:

- 1) Current MSBA Construction Cap \$ 333/sf Current Leicester Construction Cost per Sf \$ 494/sf
- 2) For costs noted in Item 1, MSBA also excludes a pro-rated exclusion against GC costs
- 3) MSBA excludes site construction costs above 8% of construction costs
- 4) MSBA excludes abatement and removal of VAT

School Building Committee Meeting School Building Committee Meeting School Building Committee Meeting School Building Committee Meeting **School Building Committee Meeting School Building Committee Meeting** School Building Committee Meeting **School Building Committee Meeting** School Building Committee Meeting School Building Committee Meeting **School Building Committee Meeting** School Building Committee Meeting Community Forum: #1 **School Building Committee Meeting Combined Select Board Meeting:** Community Engagement Kick-off: **School Building Committee Meeting** School Building Committee Meeting School Building Committee Meeting **School Building Committee Meeting** Community Forum: # 2 **School Building Committee Meeting** Community Forum: # 3

June 28, 2018 July 08, 2018 July 19, 2018 September 20, 2018 October 18, 2018 November 08, 2018 December 20, 2018 January 10, 2019 February 26, 2019 March 21, 2019 April 11, 2019 May 16, 2019 May 21, 2019 June 06, 2019 June 27, 2019 July 31, 2019 August 08, 2019 September 12, 2019 October 01, 2019 October 10, 2019 October 15, 2019 November 07, 2019

November 20, 2019







- Safety
- **Community Improvement**
- Increased Property Value
- Community Use
- Financially Responsible Choice



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