FULLER MIDDLE SCHOOL FEASIBILITY STUDY

Finance Subcommittee

October 10, 2018





Agenda

- 1. Introduction and Project Need
- 2. The Design: Site and Building
- 3. Benefits to the Students and Community
- 4. Schedule and Cost
- 5. Important Dates
- 6. Questions





SCHOOL BUILDING COMMITTEE MEMBERS

Dr. Yvonne Spicer

David Miles

Dr. Edward Gotgart

Thatcher Kezer, III

Adam Freudberg

Dr. Robert Tremblay

Charlie Sisitsky

Richard Finlay

Noval Alexander

Scott Wadland

Mary Ellen Kelley

Jennifer Pratt

Heather Connolly

Matt Torti

Anne Ludes

Mayor

Co-Chair, Resident with Finance Experience

Co-Chair, Chief Operating Officer, FPS

Chief Operating Officer

School Committee Chair

Superintendent of Schools

City Council Member

School Committee Member and Convenor

School Committee Member

School Committee Member

Chief Financial Officer

Chief Procurement Officer

Former School Committee Chair

Director of Buildings and Grounds, FPS

Director of Secondary Education





SCHOOL BUILDING COMMITTEE MEMBERS

Jose Duarte

Caitlin Stempleski

Patrick Johnson

Michael Tusino

Richard Weader II

Michael Grilli

Dr. Jennifer Krusinger Martin

Donald C. Taggart III

David Panich

Thomas Barbieri

Dr. Dale Hamel

Principal, Fuller Middle School

Teacher, Fuller School Middle

Principal, Walsh Middle School

Building Commissioner

Member

Member

Member

Member

Member

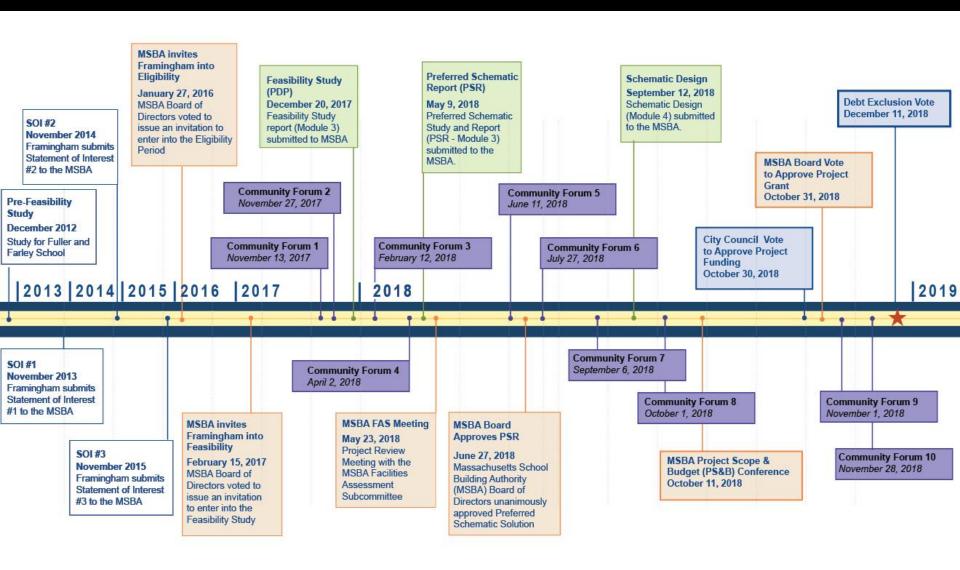
Member

Member





SIX YEARS OF PLANNING







HOW WE GOT HERE

- The Fuller Middle School is an aged facility that requires significant upkeep, spending which will not result in long-term educational benefits.
- Framingham submitted its initial application to MSBA for a grant in November 2013.
- The MSBA receives approximately 120 grant applications for capital projects annually, of which approximately 10 are approved annually.
- Framingham residents voted to approve the Feasibility Study funding at its October 18, 2016 Special Town Meeting.





OPEN, TRANSPARENT AND PUBLIC PROCESS

For the past 18 months, public meetings have included:

- 27 School Building Committee Meetings
- 8 Community Forums
- 4 City Council Meetings
- 4 School Committee Meetings
- 2 Public Presentations at Library
- 1 Public Hearing at ZBA
- 1 Neighborhood Meeting

Project Website:

www.fullerbuildingproject.com









EDUCATIONAL DEFICIENCIES





PHYSICAL BUILDING DEFICIENCIES

Energy Code

Envelope

Accessibility

Structural

Mechanical, Electrical and Plumbing Systems

Hazardous Materials



DESIGN ENROLLMENT

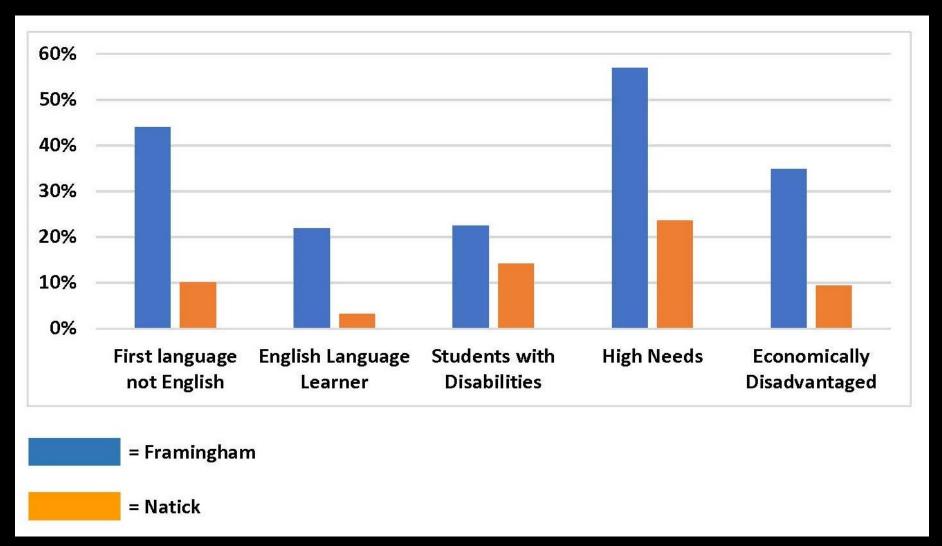
- The MSBA initially provided an enrollment cap of 580 students, based on their demographic projections.
- FPS successfully appealed, and persuaded the MSBA that an enrollment of 630 students in grades 6-8 is appropriate
- 630 students is a good and supportable number
- Now established, the MSBA does not allow further renegotiation of the enrollment figure
- Current design allows flexibility to support more than 630 students



VISIONING HIGHLIGHTS

- Personalized and Collaborative Learning
- Transdisciplinary Instruction
- Visible Learning
- Adaptability
- Whole Child, Whole Community
- Community and Civic

FRAMINGHAM DEMOGRAPHICS - ILLUSTRATIVE COMPARISON



Source: Mass Dept of Elementary and Secondary Education





TRANSLATING THE EDUCATIONAL PROGRAM INTO SPACE PLANNING

Fuller Middle School 21st Century Teaching and Learning

Student Driven, Web Complimentary, Collaboration-Based





Space Initiatives



Small Scale Collaborative **Teaching** Collaborative Learning **Interdisciplinary Content Project Based Learning Visible Learning** Flexible Learning **Outdoor Learning** Community **Engagement**

Ubiquitous Learning

Agile, Varied Scale Classroom

Specialized Learning Spaces

Team Teaching

STEAM Exploratory

Maker Space

Visible Teacher Office

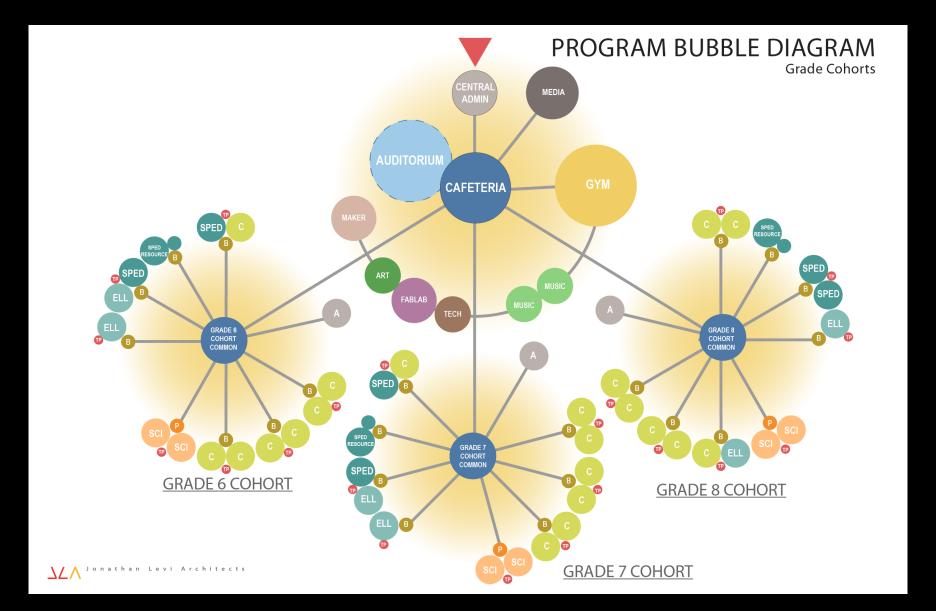
Small Group Collaboration Spaces

Community Collaboration Spaces

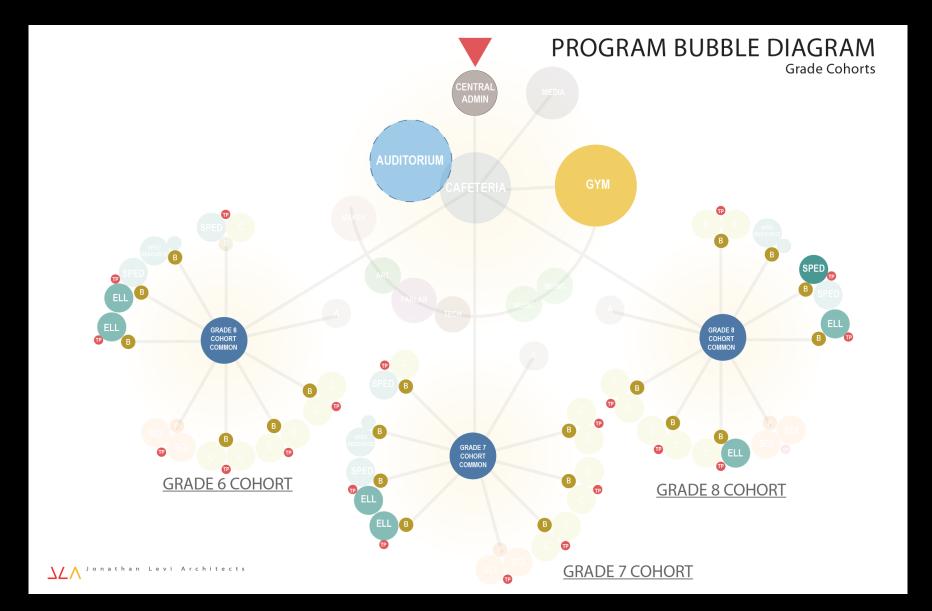




Building Space and Adjacency Diagram



Spaces to Support Framingham Demographics and STEAM







WHY AN AUDITORIUM AND INCREASED GYMNASIUM SPACE

The existing 1958 Fuller auditorium and gyms, to be demolished, serve an important function for the school and the South Framingham community.

The new school will:

- Continue to provide a home for these functions
- Maintain parity with Framingham's other Middle Schools
- Provide a safe and flexible environment for teaching and learning





SQUARE FEET PER STUDENT DIFFERENTIATORS

- 1. Added auditorium space beyond MSBA standard including related circulation, toilets and services
- 2. Increased gym size beyond MSBA standard
- Added stem educational program areas including collaboration zones, break-out areas and satellite administration suites
- 4. Added spaces for specialized ELL programs
- 5. Added space for Special Education due to Framingham student demographics
- 6. Minimum MSBA Space Sizes disproportionate in smaller Design populations





OPTIONS STUDIED









OPTIONS STUDIED

RATINGS:

Very Disadvantageous	Option 0 Repair to Code Baseline	Option A Add / Reno	Option B Tree Branch New Constr.	Option C Folded Hands New Constr.	Option D Butterfly New Constr.	<u>Comments</u>
PROJECT EVALUATION CRITERIA						
1 Total Project Cost		-	+	+	+	See costs below
2 Schedule		-	+	+	+	Renovation options will require phasing and additional construction time. Swing space requires additional time
3 Construction Impact to Education		-	+	-0-	+	Swing space will be disruptive and smaller than current Fuller use
4 Construction Impact to Campus and Neighbors	-0-	-	-	+	-	Swing space / trailers will be disruptive to neighbors. Options A, B and D close to Flagg Drive so potentially disruptive
5 Educational Program Accommodation		-0-	+	+	+	Options vary on ability to provide 3 appropriate cohort locations and identity
6 Flexibility-Fixed Classroom Count per Cohort	-0-	-	-	+	-	Option C allows each cohort to increase or decrease the number of SPED and general classrooms because they are not aggregated in a defined wing or floor.
7 STEM Enhancement-Visible learning		-	-0-	+	-0-	Open atrium has greatest visibility within and between cohorts. All options to facilitate project based learning.
8 Flexibility-Building Systems		-	+	+	+	New construction would be designed for flexible use and improved MEP accessibility
9 Open Space /Building Massing / Footprint		-	-0-	+	-0-	3 story Option C has smallest footprint, resulting in largest open area.
10 Security		-0-	+	+	+	All options A-D would be substantially more secure than existing
11 Community Use	-0-	-	+	+	+	All alternatives allow community use. New Construction options allow increased access to playfields.
12 Academic Campus	-	-	-0-	+	-0-	Locating Fuller closer to Farley and McCarthy improves ability to create identifiable campus. Option C most successful.
13 Outdoor Theater	-0-	-0-	-0-	+	-0-	South-facing sloped outdoor space inherent in Option C design
14 Natural Light and Views		-0-	+	+	+	one-story "Pancake" massing creates interior rooms with limited access to windows
15 LEED / Sustainability	-	-0-	-0-	+	-0-	Option C has best solar orientation
16 Risk			+	+	+	Options requiring renovation and/or swing space have more inherent risk due to unforeseen conditions
17 Long Term Maintenance and Repair Costs	-	-0-	+	+	+	3 story Option C has smallest roof area.
18 Operating Costs	-	-0-	+	+	+	Solar orientation and ext skin quantity impact energy loads
19 Design Scope Flexibility			+	+	-	Options B and C would most readily allow a modification to the Auditorium and/or Gym size in upcoming Schematic Design phase
Total GSF	196,000	167,000	154,000	154,000	154,000	

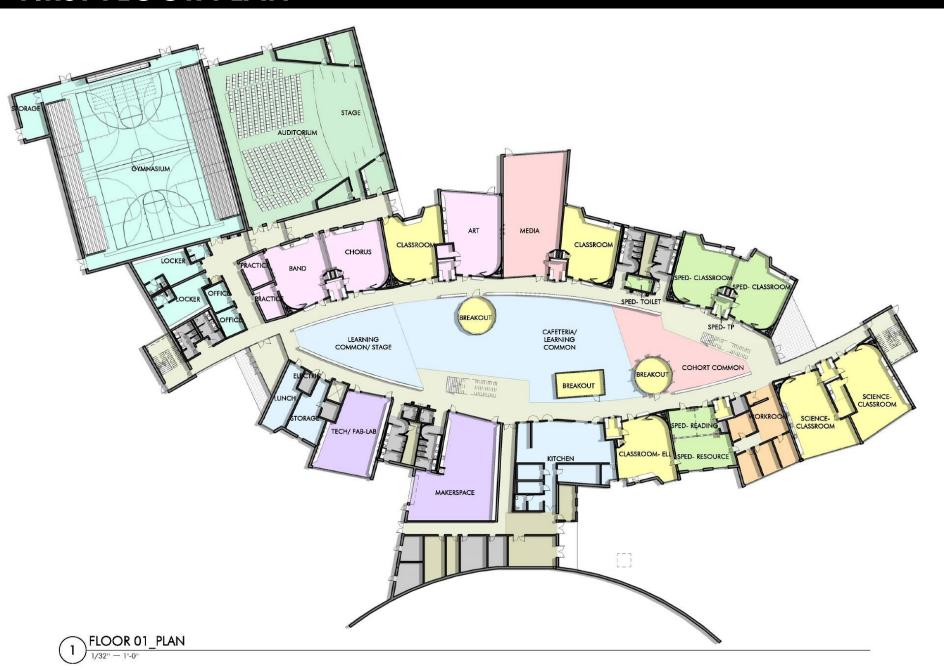








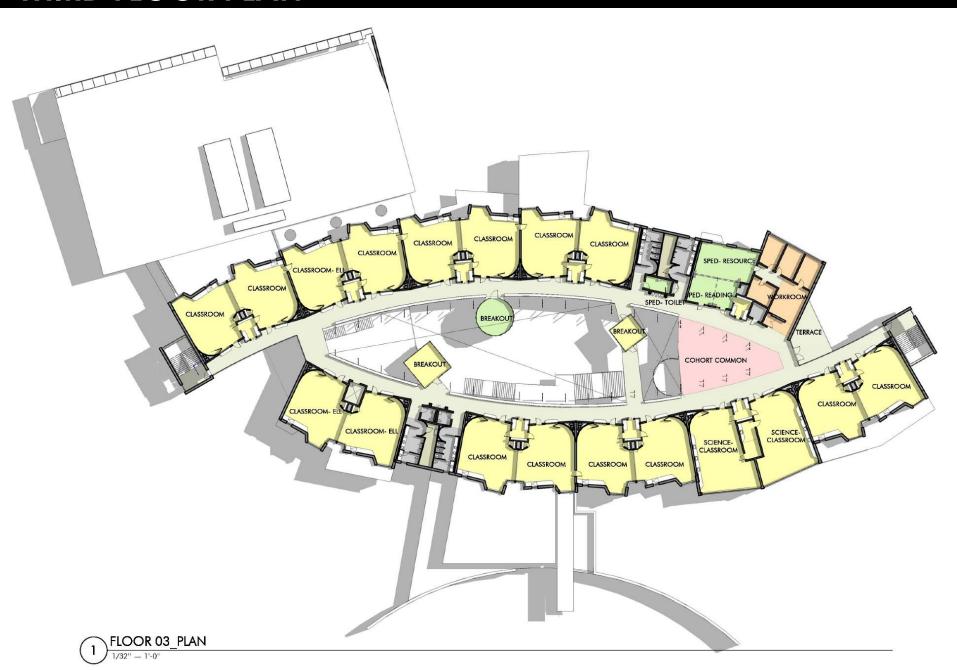
FIRST FLOOR PLAN



SECOND FLOOR PLAN

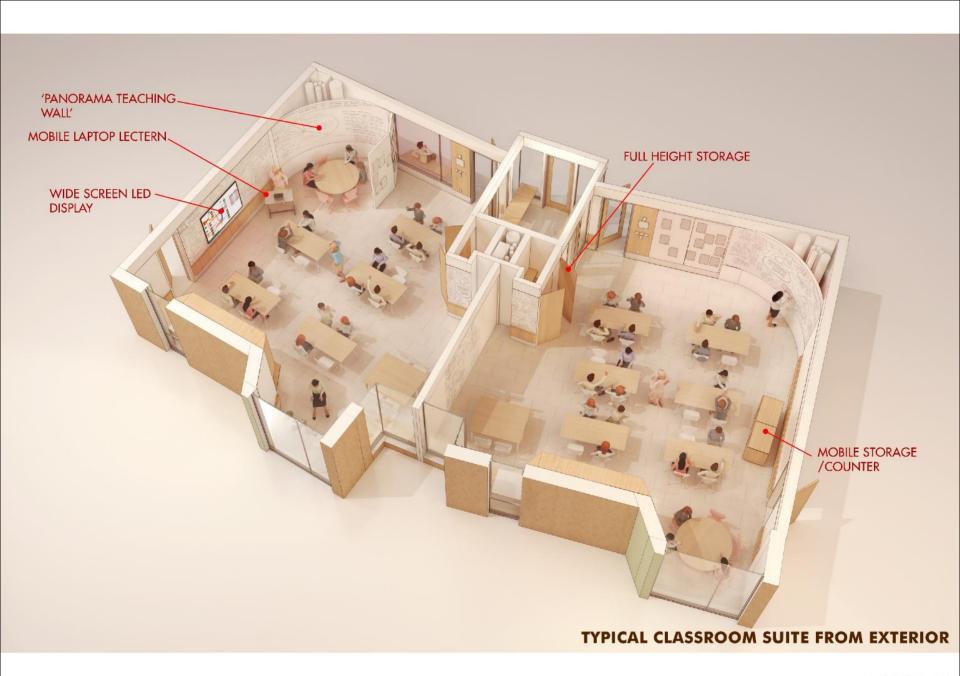


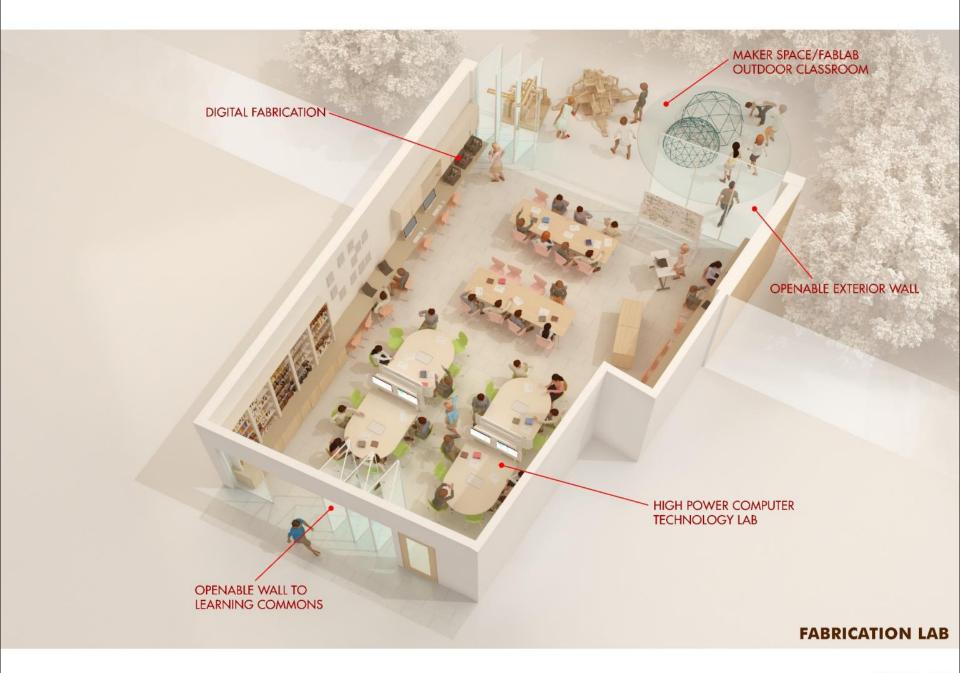
THIRD FLOOR PLAN



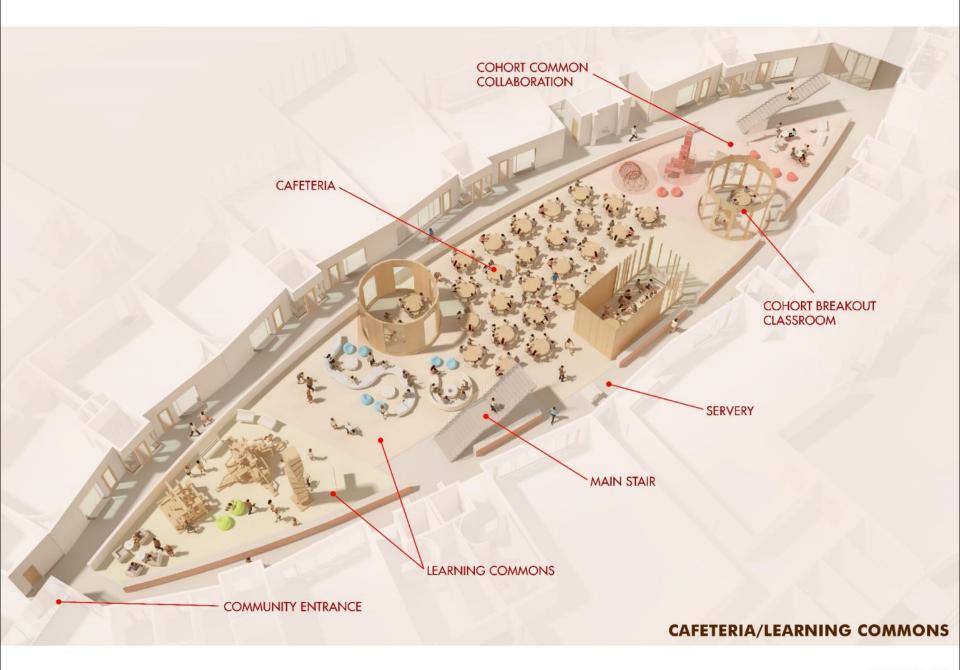




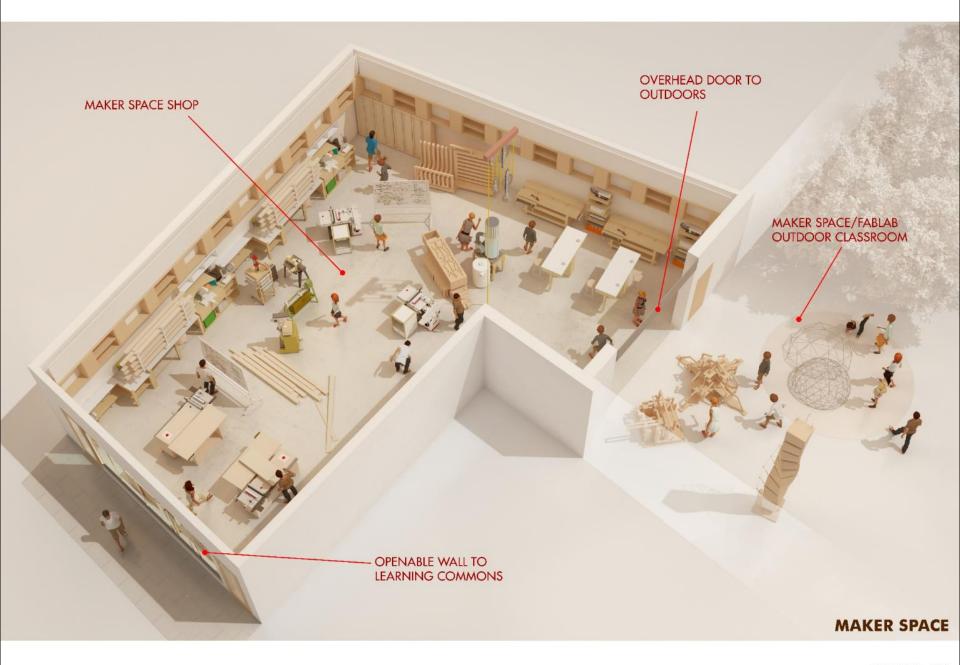




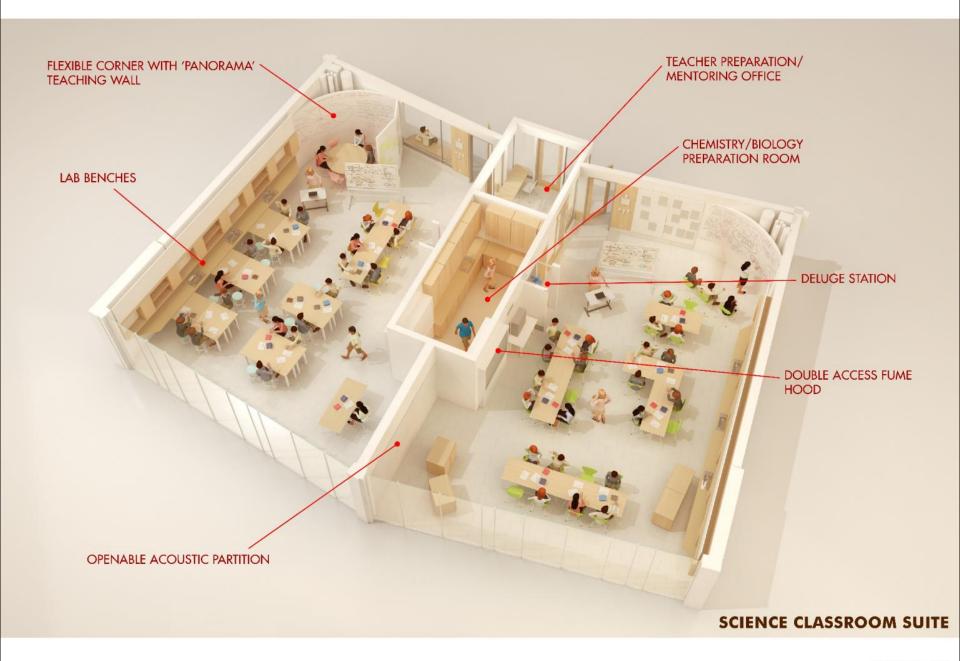










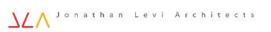


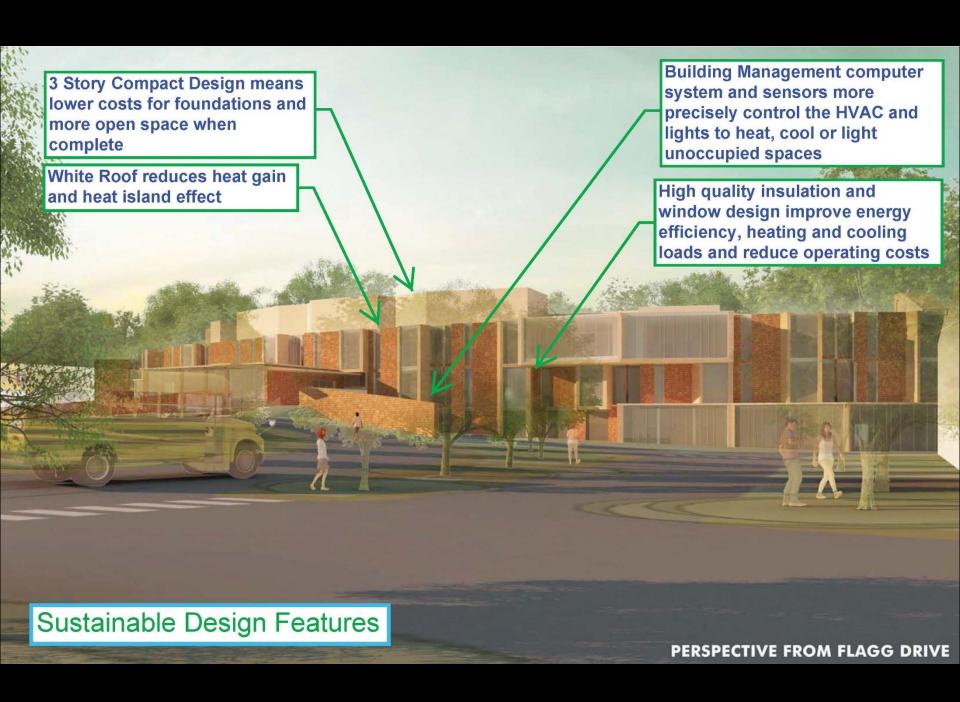




CROSS SECTION THROUGH CAFETERIA/LEARNING COMMONS







BENEFITS TO THE STUDENTS AND EDUCATORS

- Appropriate classroom sizes and relationships according to contemporary educational standards.
- Collaboration spaces that support project based learning preparing students for the contemporary workforce.
- Natural daylighting and healthy ventilation for improved educational outcomes.
- Full range of special education spaces to support individual student needs.
- STEAM (science, technology, engineering, art and mathematics) instruction spaces to fulfill district's elementary feeder school commitment to STEM curricula.
- Spaces that facilitate teacher collaboration toward improved teaching practices.





BENEFITS TO THE COMMUNITY

- Replacement of decaying, inefficient facility with ever increasing maintenance and operation cost burden to the City. Reduced building size, modern materials, and far more energy efficient HVAC systems will increase operating efficiency over the next 70 years.
- Reduced building footprint yields increased City open space and playfield space, and improves impact to adjacent conservation lands.
- Traffic calming measures improve public safety.
- Renewal of community access athletic and performance facilities for future use.





PROJECT TIMELINE

December 2018 – Detailed Design Commences

Summer 2019 – Construction Commences

Summer 2021 – New Building is Completed

December 2021 – Demolition and Sitework Completed





TOTAL PROJECT COST

TOTAL	\$98.3M
CONTINGENCIES	\$5.5M
FURNITURE, FIXTURES & EQUIPMENT	\$2.3M
FEES & EXPENSES	\$12.6M
CONSTRUCTION COST (BUILDING + SITE WORK+ MARK-UPS)	\$77.9M



WAS THE TOTAL PROJECT COST REDUCED?

	PROJECT COST	COST TO CITY	BUILDING SIZE
PSR SUBMISSION - 5/9/2018	\$110.5M	\$66.6M	153,905 SF
REDUCED ELL SPACES - 6/18/2018	\$104.5M	\$63.6M	141,750 SF
REDUCED AUDITORIUM - 7/16/2018	\$101.3M	\$60.8M	136,790 SF
SCHEMATIC DESIGN SUBMISSION - 9/12/2018	\$ 98.3M	\$58.8M	136,790 SF
TOTAL REDUCTION	\$ 12.2M	\$7.8M	17,115 SF





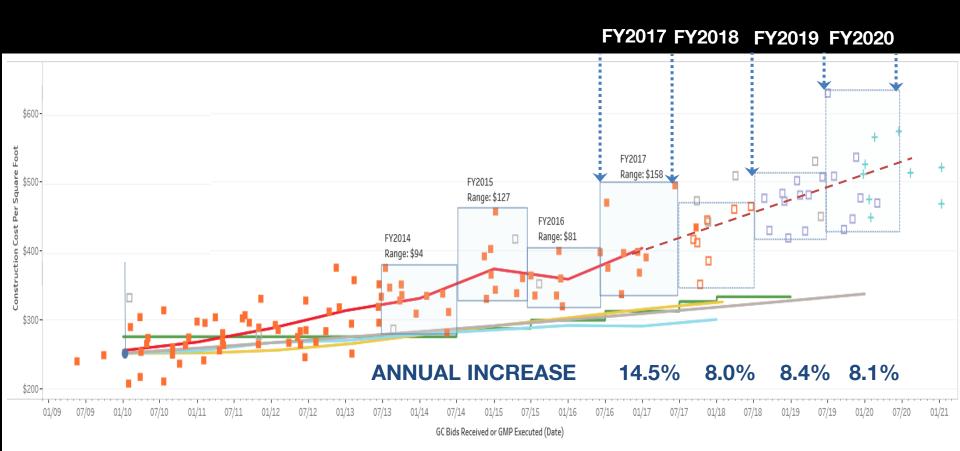
COLLABORATIVE COST REDUCTION STRATEGY ACTION

- Reduce 30 Classrooms to 27
- Reduce 9 Science Classrooms to 6
- Combine Tech Classroom with Fabrication Lab
- Combine Small Group Seminar with Teacher Work Rooms
- Reduce Auditorium from 750 seats to 420 seats

Combined total reduction of 17,115 GSF, representing a savings of approximately \$12.2M in total project costs, representing a savings of \$7.8M to the City.







The information and data contained in this chart is based on the MSBA's review of construction cost estimates, contracts and other documentation provided by cities, towns, and regional school districts. This information and data is intended for informational purposes only. The data may have changed based on actual construction bids or contract amendments, for example, and the MSBA shall have no responsibility or duty to update any of the information. Please contact the Districts for the most current information. The MSBA hereby disclaims any and all liability and responsibility that may arise in connection with the information contained in this chart. (Updated August 2018)





(Sorted by Total Project Cost)

		Cost Escalated to Fuller
Project Name	Students	(\$M)
Lynn Middle Schools	1,660	\$213
Saugus Middle/High School	1,360	\$186
Beverly Middle School	1,395	\$136
Holyoke Lawrence Middle School	1,100	\$132
Abington Middle/High School	1,115	\$129
Natick Kennedy Middle School	1,000	\$116
Dennis-Yarmouth Mattacheese Middle School	940	\$113
Westport Middle/High School	860	\$112
Framingham Fuller Middle School	630	\$98
Boston Dearborn STEM Academy	600	\$94
Quincy Sterling Middle School	430	\$70



PROJECT MANAGEMENT SMMA

(Sorted by Cost per Student)

Project Name	Students	Cost/Student (\$K)
Quincy Sterling Middle School	430	\$162
Boston Dearborn STEM Academy	600	\$156
Framingham Fuller Middle School	630	\$156
Saugus Middle/High School	1,360	\$137
Westport Middle/High School	860	\$130
Lynn Middle Schools	1,660	\$129
Dennis-Yarmouth Mattacheese Middle School	940	\$120
Holyoke Lawrence Middle School	1,100	\$120
Natick Kennedy Middle School	1,000	\$116
Abington Middle/High School	1,115	\$115
Beverly Middle School	1,395	\$97





(Sorted by Cost per Square Feet)

Project Name	Students	Cost/SF
Boston Dearborn STEM Academy	600	\$730
Quincy Sterling Middle School	430	\$727
Framingham Fuller Middle School	630	\$718
Saugus Middle/High School	1,360	\$693
Lynn Middle Schools	1,660	\$674
Natick Kennedy Middle School	1,000	\$638
Holyoke Lawrence Middle School	1,100	\$617
Dennis-Yarmouth Mattacheese Middle School	940	\$614
Westport Middle/High School	860	\$597
Beverly Middle School	1,395	\$586
Abington Middle/High School	1,115	\$546





COST PER SQUARE FEET DIFFERENTIATORS

- Increased Site Costs against Small Building Area
- Overlarge Existing Building Demolition and Abatement
- Soil Conditions Foundation Support
- Auditorium and Added Gymnasium Premium
- Full Air Conditioning





MSBA REIMBURSEMENT RATE

Base Points	31.00
Income Factor	7.73
Property Wealth Factor	17.68
Poverty Factor	1.42
BASE RATE	57.83
Maintenance	1.48
CM @ Risk	1.00
"Green Schools"	2.00
INCENTIVE POINTS	4.48
REIMBURSEMENT RATE	62.31





WHAT WILL BE FRAMINGHAM'S SHARE?

Total Project Cost	\$ 98,276,878
Approximate Ineligible Costs	\$ 34,910,495
Eligible Costs	\$ 63,366,383
Eligible Costs	\$ 63,366,383
Reimbursement Rate	62.31%
Approximate MSBA Grant	\$ 39,483,593
Total Project Cost	\$ 98,276,878
Approximate MSBA Grant	\$ 39,483,593
Approximate Cost to the City	\$ 58,793,285





WHAT ARE THE APPROXIMATE INELIGIBLE COSTS?

Legal fees	\$	80,000
OPM fee associated with Ineligible Spaces	\$	286,361
Architect fee associated with Ineligible Spaces	\$	837,936
Asbestos flooring abatement	\$	388,800
Site costs over 8%	\$	4,162,845
Building costs over \$333/s.f.	\$	16,912,791
Auditorium ineligible space	\$	5,823,829
Gymnasium ineligible space over 6,500 s.f.	\$	1,440,421
Administration ineligible space over MSBA Guideline	\$	904,095
Furnishings and equipment over \$1,200/student	\$	378,000
Educational technology over \$1,200/student	\$	378,000
Moving expenses	\$	200,000
Construction contingency over 1%	\$	3,117,417
Total Approximate Ineligible Costs	\$3	34,910,495





WHAT WILL BE FRAMINGHAM'S SHARE?

PROJECT COST	\$98.3M
APPROXIMATE MSBA GRANT	\$39.5M
APPROXIMATE COST TO FRAMINGHAM	\$58.8M





WHAT DOES THIS MEAN TO THE AVERAGE TAXPAYER?

29 Cents annual tax increase per \$1,000 valuation

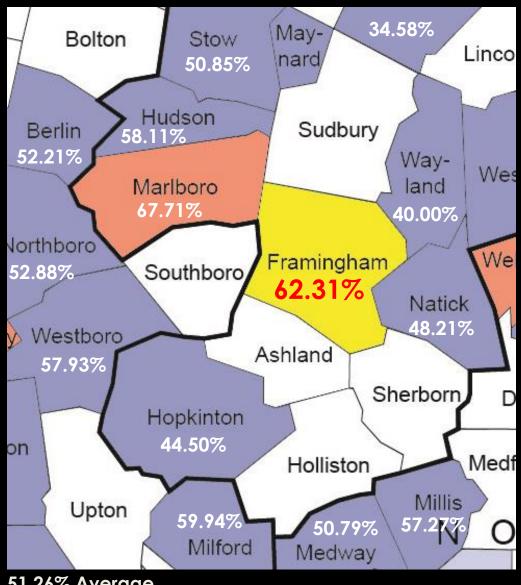
\$101 per year, OR \$8.41 per month, OR 28 Cents per day

Based on a 20-year bond utilizing \$8 million of the Capital Stabilization Fund





WHAT HAVE OUR NEIGHBORS BEEN DOING?



MSBA CORE PROGRAM PROJECTS IN NEIGHBORING **TOWNS**

(within past ten years):



In Feasibility to Design Development Phase

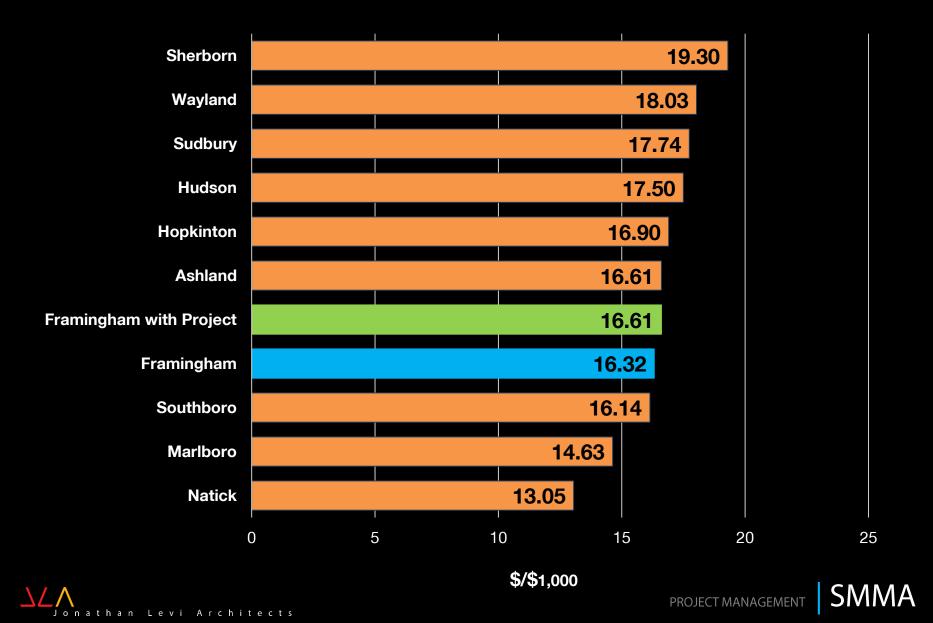
51.26% Average





SURROUNDING COMMUNITIES 2018 RESIDENTIAL TAX RATE

(\$/\$1,000 Assessed Value)



THE COST OF VOTING "NO"?

Case Study: Lincoln – Paying More... Getting Less

- July 2012 (MSBA Board Approval)
- November 2012 (Lincoln Town Meeting Failed)
 - \$50M Total Project Budget
 - \$21M MSBA Grant
- Not re-accepted into MSBA program after several attempts
- Now evaluating options forecast to cost \$90-100 million at 100% Town cost





THE COST OF VOTING "NO"?

Possible Scenarios

		AVERAGE RESIDENTIAL TAX
	COST TO CITY	IMPACT
VOTE PASSES		
NEW FULLER NOW (with MSBA GRANT)	\$ 58.8M	\$101
VOTE FAILS		
NEW FULLER IN 10 YEARS (ASSUMED with MSBA GRANT)	\$ 84.4M *	\$145
OPERATE AND MAINTAIN EXISTING FULLER	\$ 18.6M **	?
	\$103.0M	
REPAIR-ONLY FULLER NOW	\$131.0M	\$244

^{* -} Based on 4% escalation, current borrowing rate, 20 year term, using \$11M of Capital Stabilization Fund, MSBA Grant not guaranteed.

^{** -} Assumes no major system failures in next 10 years.





THE COST OF VOTING "NO"?

- A "NO" vote means educational offerings continue to not meet the needs of students and educators due to facility needs
- A "NO" vote does not avoid future expenses. In fact, the opposite is true:
 - State aid (\$39.5M) will go to another district and the City is unlikely to get another opportunity.
 - No benefit to show for the Feasibility Study funds expended by the City.
 - Current and future generations inherit an inadequate building with big costs ahead (\$131M).
 - The cost of future repairs and construction will only go up, including their impact on taxes.





IMPORTANT DATES

- October 16, 2018 City Council Public Hearing
- October 30, 2018 City Council Meeting to approve funding
- October 31, 2018 MSBA Board Meeting to approve project
- November 1, 2018 Community Forum No. 9
- November 28, 2018 Community Forum No. 10
- December 11, 2018 Anticipated Debt Exclusion Ballot Vote





WHY A NEW FULLER?

- Physical and Educational Deficiencies
- STEAM based Educational Vision
- 6 Years of Study
- MSBA Partnership



