

BROOKLINE  
DRISCOLL SCHOOL EXPANSION

School Building Committee  
February 28, 2019



# Agenda

1. Design Updates
2. Budget

# Agenda

## 1. Design Updates



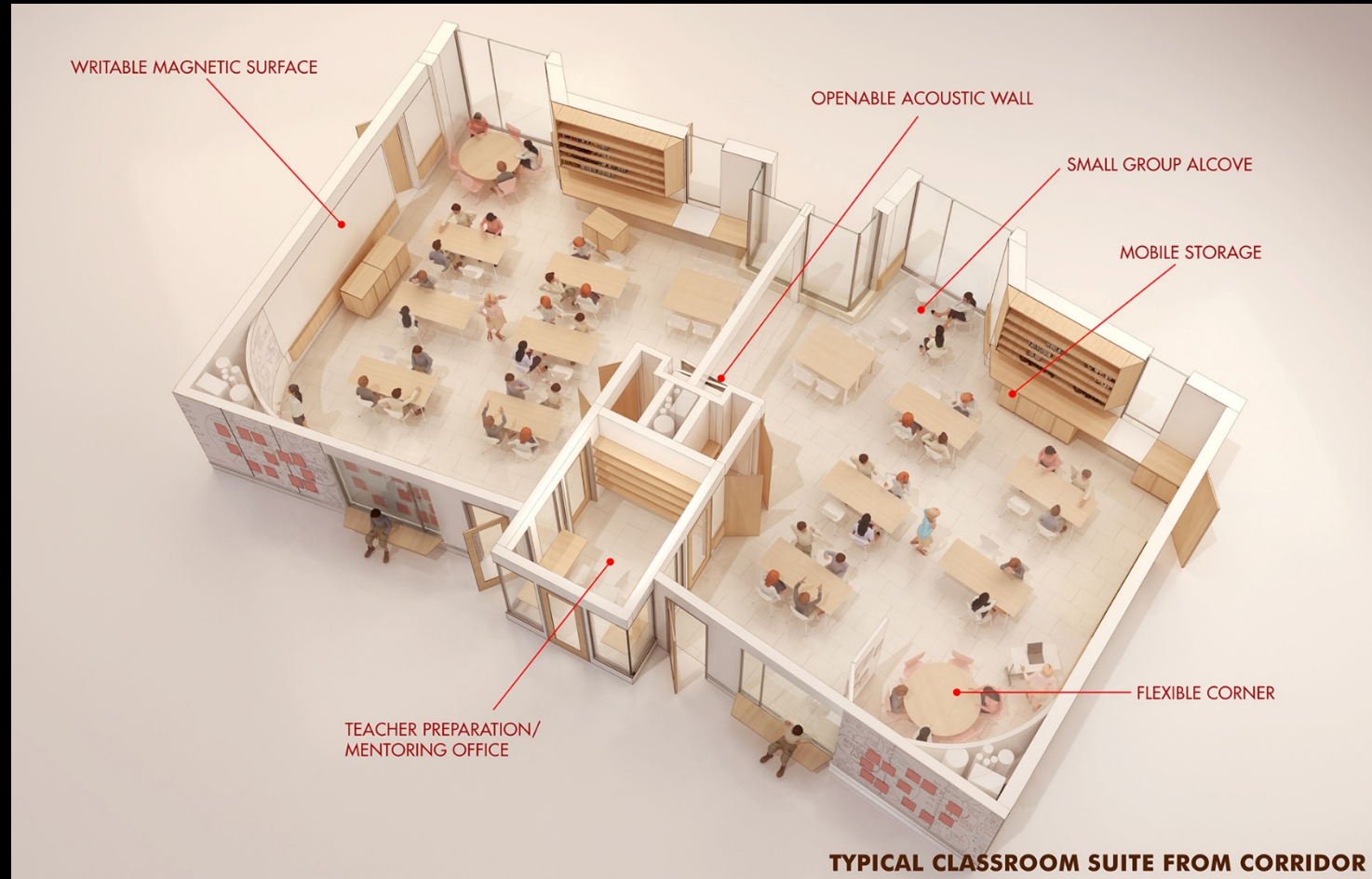
# Site Plan



# Open Space Metrics

	LOT	BUILDING		OPEN SPACE			
Concept Alternative	Total Lot Area	Building GSF	Building Footprint	Usable Play Area (with tennis)	Vehicle / Pedestrian	Unutilized Area	Total Open Area
Existing	173,000 SF	97,000 SF	39,500 SF	72,500 SF	32,000 SF	29,000 SF	133,500 SF
H Modified Star	173,000 SF	155,500 SF	42,000 SF	97,000 SF	21,500 SF	12,500 SF	131,000 SF
Lincoln	187,308 SF	87,500 SF	44,369 SF	61,851 SF	13,633 SF	67,455 SF	142,939 SF
Runkle	132,858 SF	104,800 SF	52,609 SF	40,446 SF	0 SF	39,802 SF	80,248 SF
Coolidge Corner	292,723 SF	200,000+ SF	88,880 SF	143,211 SF	6,982 SF	53,650 SF	203,843 SF

# Anatomy of a Classroom



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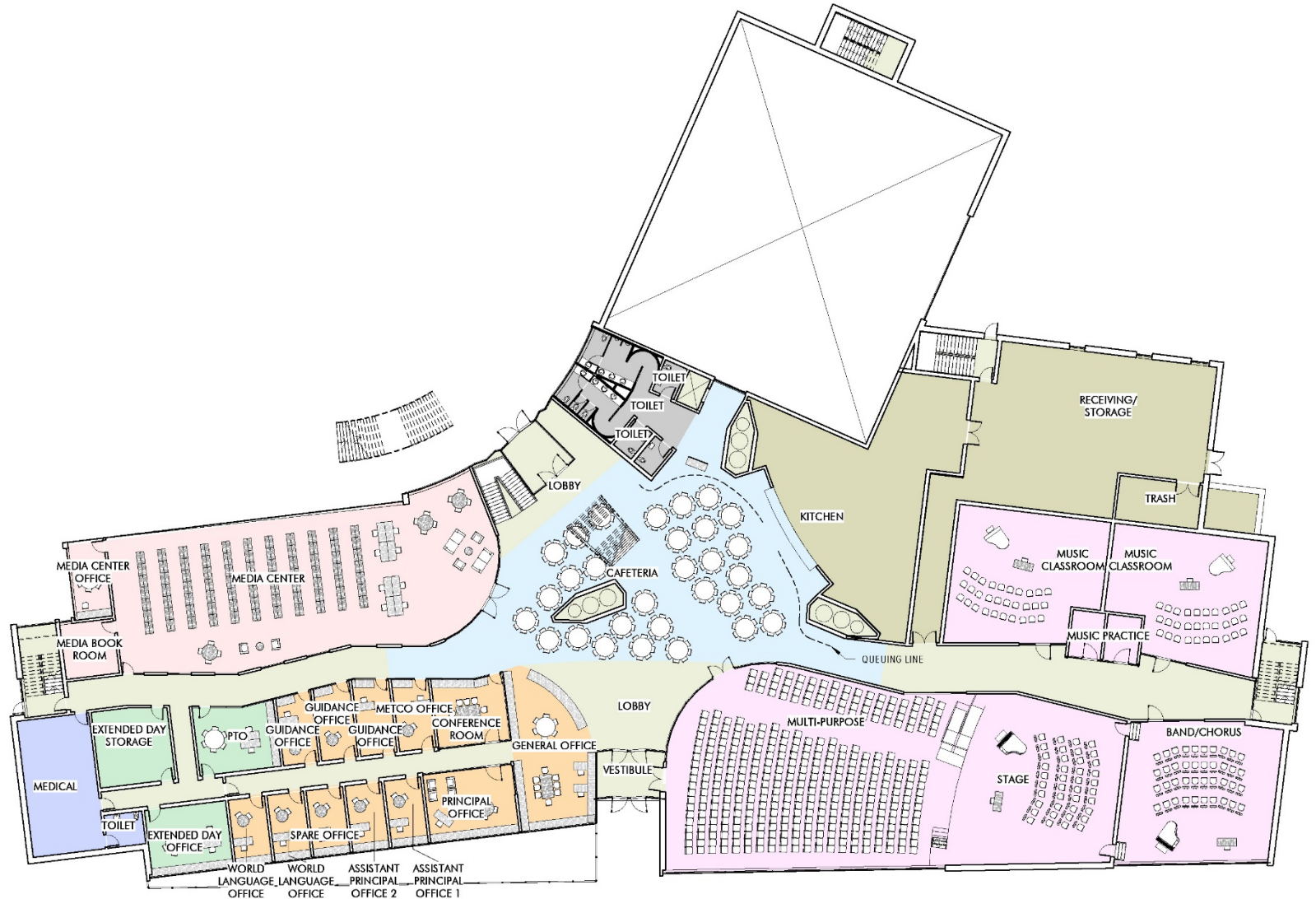


# Basement Floor Plan





# First Floor Plan



# Second Floor Plan



# Third Floor Plan



# Fourth Floor Plan



# Elevations



SOUTH ELEVATION



WEST ELEVATION



# Elevations



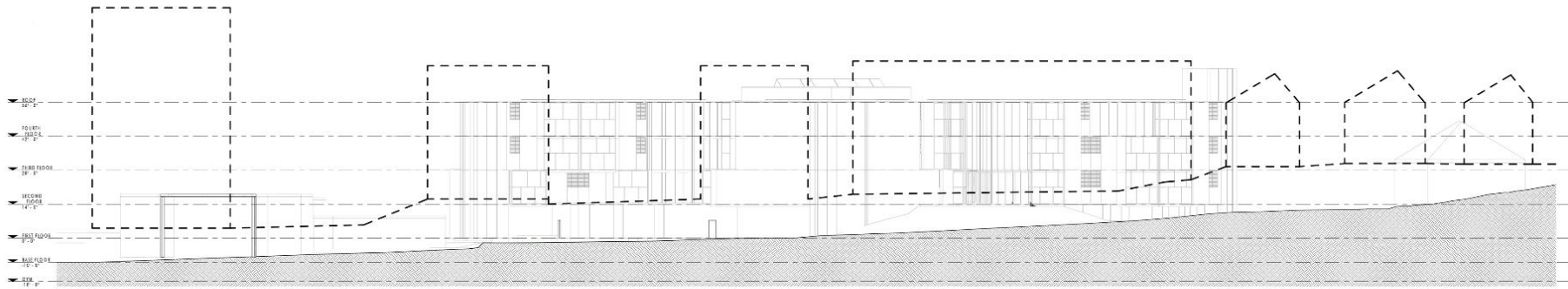
NORTH ELEVATION



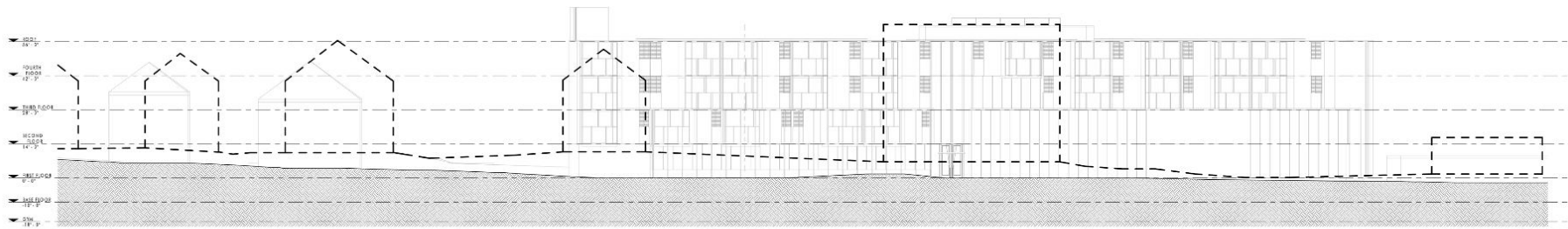
NORTH-WEST ELEVATION



# Street Massing Diagram



WESTBOURNE TERRACE ELEVATION



WASHINGTON STREET ELEVATION



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# Construction Costs Drivers

Construction estimate includes several cost drivers not found in typical MSBA projects including:

- Boston Metro Area cost index – Construction costs approximately 20% above less developed areas in Massachusetts
- Structured Parking
- Fossil fuel free systems
- Brookline K-8 standard Multipurpose Room – adds additional sf, double height

# Construction Costs

## Total Construction Cost

Estimated Bid or Guaranteed Maximum Price (GMP)

Includes:

### Trade Costs:

- Hazmat Abatement
- Demolition
- Earthwork
- Utilities
- Landscaping
- Road and Sidewalk
- The Building

### Markups:

- Design Contingency (% reduces over time during design)
- General Conditions
- Bonds and Insurance
- Escalation (% reduces over time during design)
- CMR

# Total Project Costs - Driscoll

## Total Project Costs include:

- Construction Costs: \$87.2M
- Architectural / Engineering Fees \$8.7M
- Owner's Project Manager Fee: 3M
- CMR Pre-Construction Fee \$300k
- Legal Fees: \$100k
- Commissioning: \$125k
- Testing and Inspections: \$120k
- Utility Fees: 100k
- Furniture, Fixtures, and Equipment: \$1.6M
- Technology: \$1.1M
- Moving Expenses: \$90k
- Hard Cost Contingency: \$4.1M
- Soft Cost Contingency: 2.2M

# Projected Total Costs - Driscoll

	<u>Construction</u> <u>Cost</u>	<u>Total Project</u> <u>Cost</u>
<u>Building and Site:</u>	\$77.4M	\$96.6M
<u>Play Area:</u>	\$2.0M	\$2.5M
<u>Structured Parking:</u>	\$2.8M	\$3.4M
<u>Fossil Free Allowance:</u>	\$5.0M	\$6.3M
Total	\$87.2M	\$108.8M

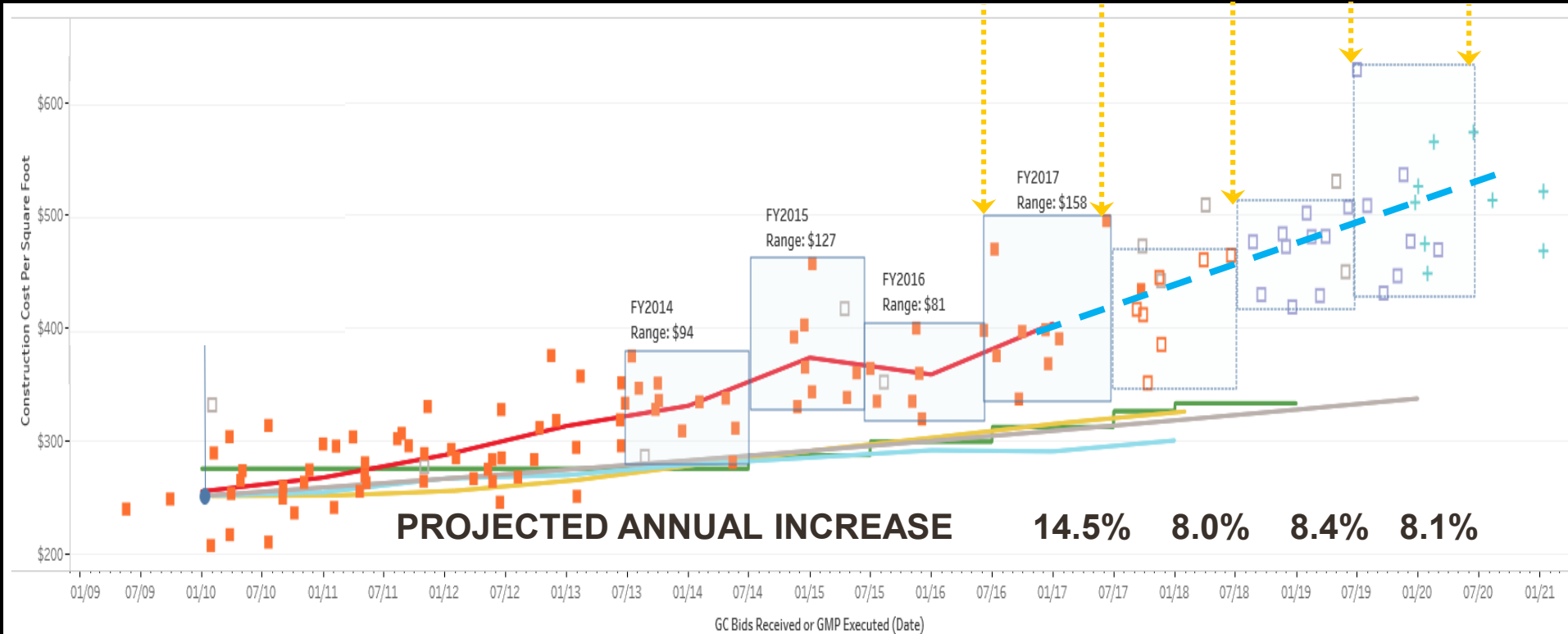
# Cost Comparison to Feasibility Study - Driscoll

	Construction Cost	Total Project Cost
<u>Feasibility Study:</u>	\$84.3M - \$89M	\$104.5M - \$110.3M
<u>Schematic Design:</u>	\$87.2M	\$108.8M

# ESCALATION - RECENT MSBA SCHOOL PROJECTS

 = Projected average school cost increase based on MSBA pipeline

**FY2017 FY2018 FY2019 FY2020**



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)

# RECENT MIDDLE SCHOOL PROJECTS

*(Sorted by Total Project Cost, adjusted for escalation)*

Project Name	Students	Cost Escalated to Driscoll (\$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
New Driscoll	800	\$109
Boston Dearborn STEM Academy	600	\$94
Quincy Sterling Middle School	430	\$70

# RECENT MIDDLE SCHOOL PROJECTS

*(Sorted by Cost per Square Feet, adjusted for escalation)*

<b>Project Name</b>	<b>Students</b>	<b>Cost/SF</b>
Boston Dearborn STEM Academy	600	\$730
Quincy Sterling Middle School	430	\$727
New Driscoll Including Parking and Fossil Free	800	\$698
Saugus Middle/High School	1,360	\$693
Lynn Middle Schools	1,660	\$674
Natick Kennedy Middle School	1,000	\$638
New Driscoll - Base Building and Landscape	800	\$636
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