PUBLIC SCHOOLS OF BROOKLINE



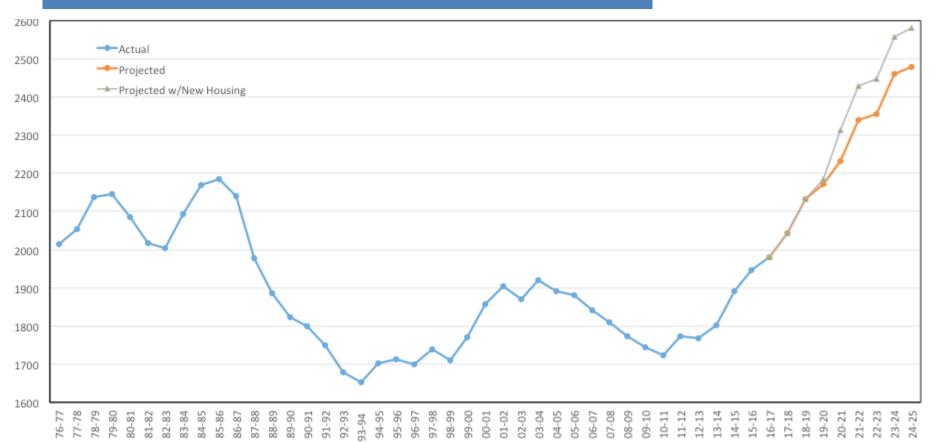
Brookline High School Expansion Feasibility Phase Community Update Meeting March 15, 2017

For updates and information go to: www.brookline.k12.ma.us/BHSexpansion



Why do we need to expand BHS?

BHS Enrollment: 1976 – 2026



BHS Enrollment is increasing rapidly



2010 - 2011BHS Student Enrollment: 1,726

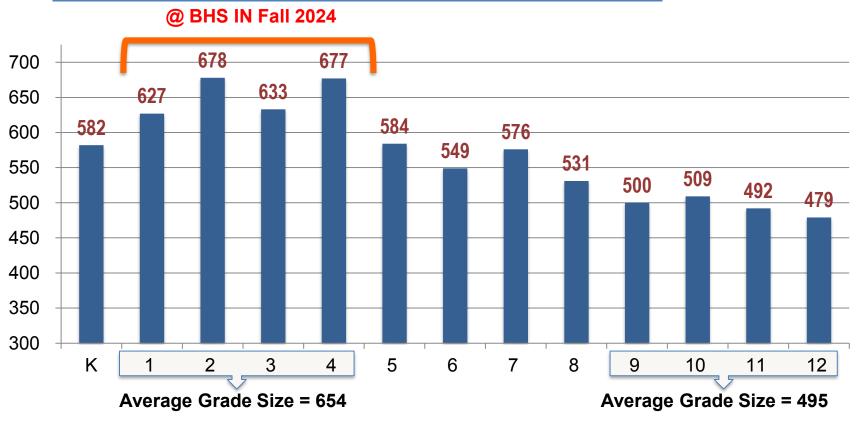
2016 – 2017 Current Enrollment: 1,980 (+254)

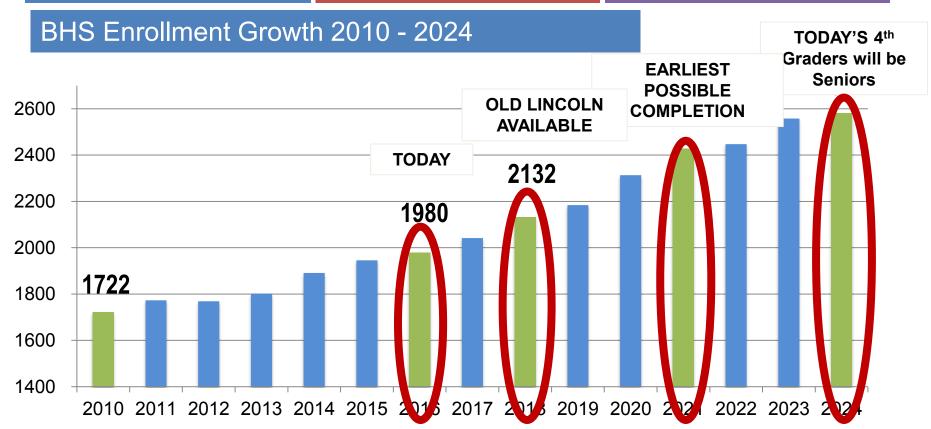
2021 – 2022 (Short Term Increase): 2,428 (+702)

2024 – 2025 (Longer Term Projection): 2,582 (*856)

50% growth between 2010 and 2024

PSB Enrollment by Grade 2016 - 2017





Notes on January 2017 Enrollment Projections:

- Does not include BEEP enrollment
- Does include projected school-age population from proposed development filed with town.

What happens if we don't expand BHS



- Average class sizes increase (from 21.5 today to 27.5 in Fall 2021)
- Unsafe science rooms due to overcrowding
- Core spaces become inadequate and programming must be reduced (phys ed, library, cafeteria)
- Insufficient space for substantially separate programs so students placed out of district
- Insufficient faculty workspace





Our Framing Questions



- **1.** How will we more deeply engage all students at BHS so their education is personally meaningful, positively impacts themselves and others, and prepares them for the changes and challenges ahead?
- 2. How do we better serve all students so they are connected to BHS, are supported to be full, thriving members of our community, and succeed academically and socially?
- 3. How do we accommodate growth and expansion and still retain the essential unity, feel, and cohesion of the Brookline High School campus?

Visioning - Guiding Principles for Design



- Big School, Small Feel
- Allows for Integration Between Disciplines & Departments
- Allows for self-directed, hands-on and experiential learning
- Flexible learning spaces allow for performance, presentation, collaboration, socializing, independent and group study
- Use of the Entire Building/Campus for Teaching & Learning
- Green/Sustainable

Developing a Comprehensive Transition Plan

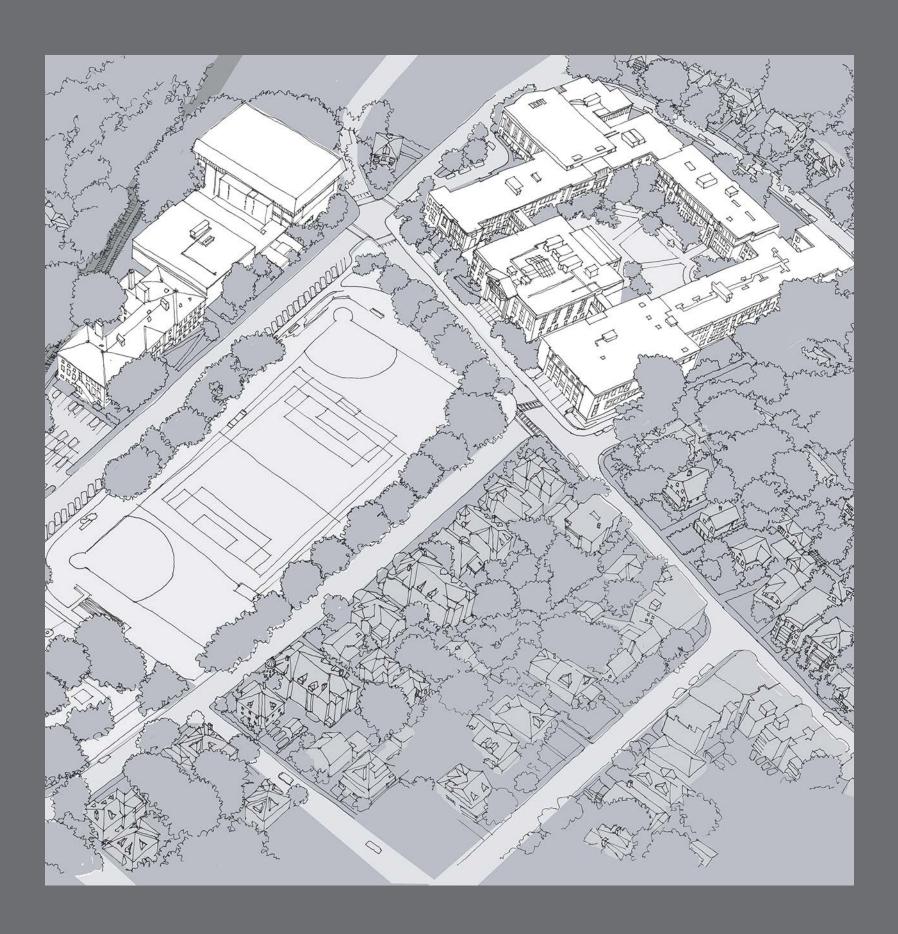


Comprehensive Transition Plan will be developed in Fall 2017

- Construction phasing plan will determine which spaces will be offline and when
- Will include potential uses for Old Lincoln as a temporary space available Fall 2018

Work being done now to account for growth and begin implementation of Education Plan

- 5 spaces to be converted back to their original use as classrooms for 2017-18
- Additional staff to lower class sizes in key areas
- New course offerings expand access and focus on innovation/interdisciplinary study
- Review of alternative programs beginning in Spring 2017 to assess need for expansion or additional programming
- Redefining the administrative and student support structure



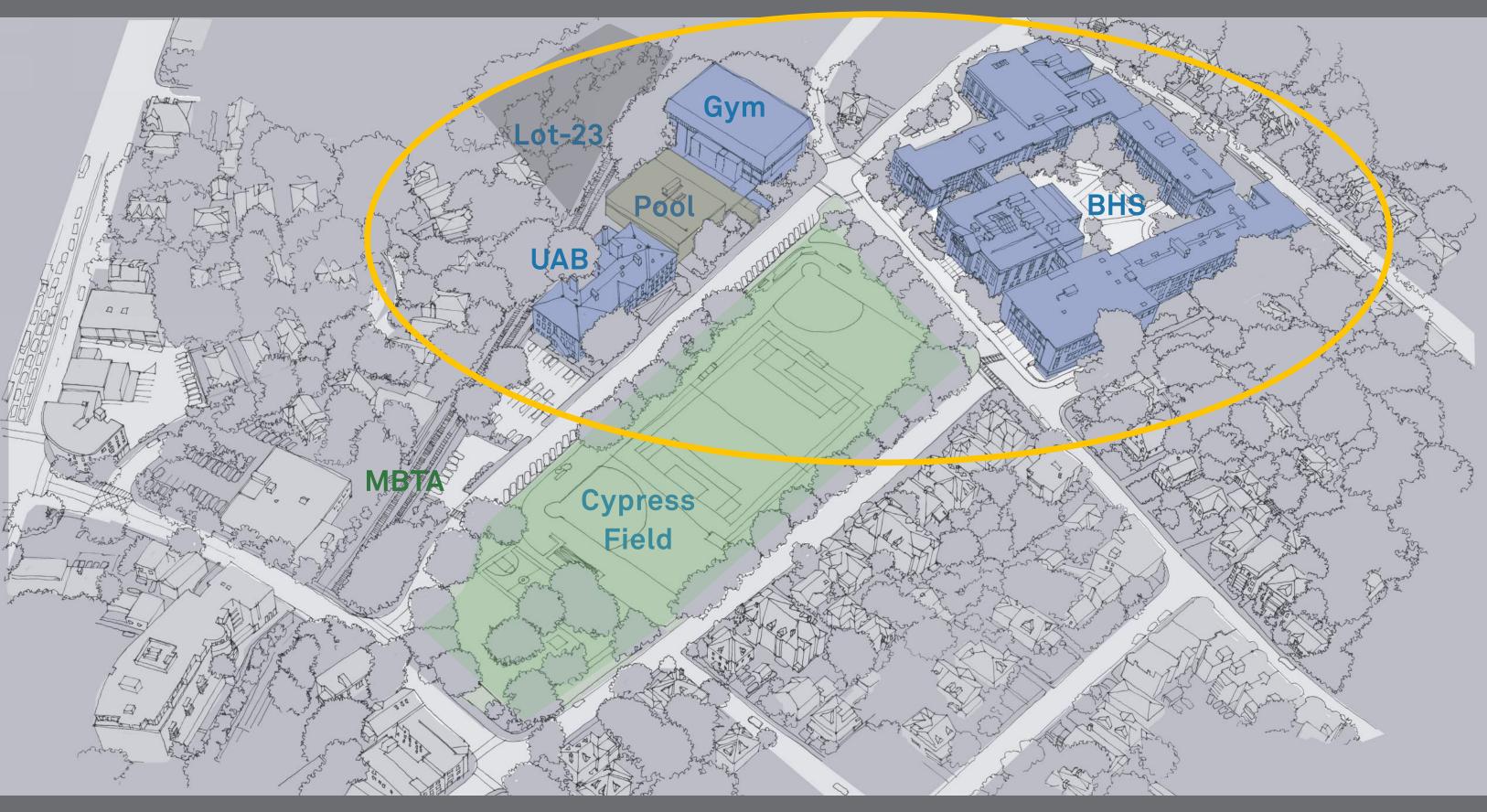
Community Meeting



Brookline High School Campus Expansion Update

Feasibility Study
MARCH 15, 2017

PRELIMINARY CAMPUS MASSING OPTIONS



GUIDING STATEMENTS

2700 ENROLLMENT

BHS currently accommodates
2,000 students satisfactorily.
Therefore, take only those
measures required to
accommodate the growth
to 2,700 plus improvements
to the Science Department
facilities.

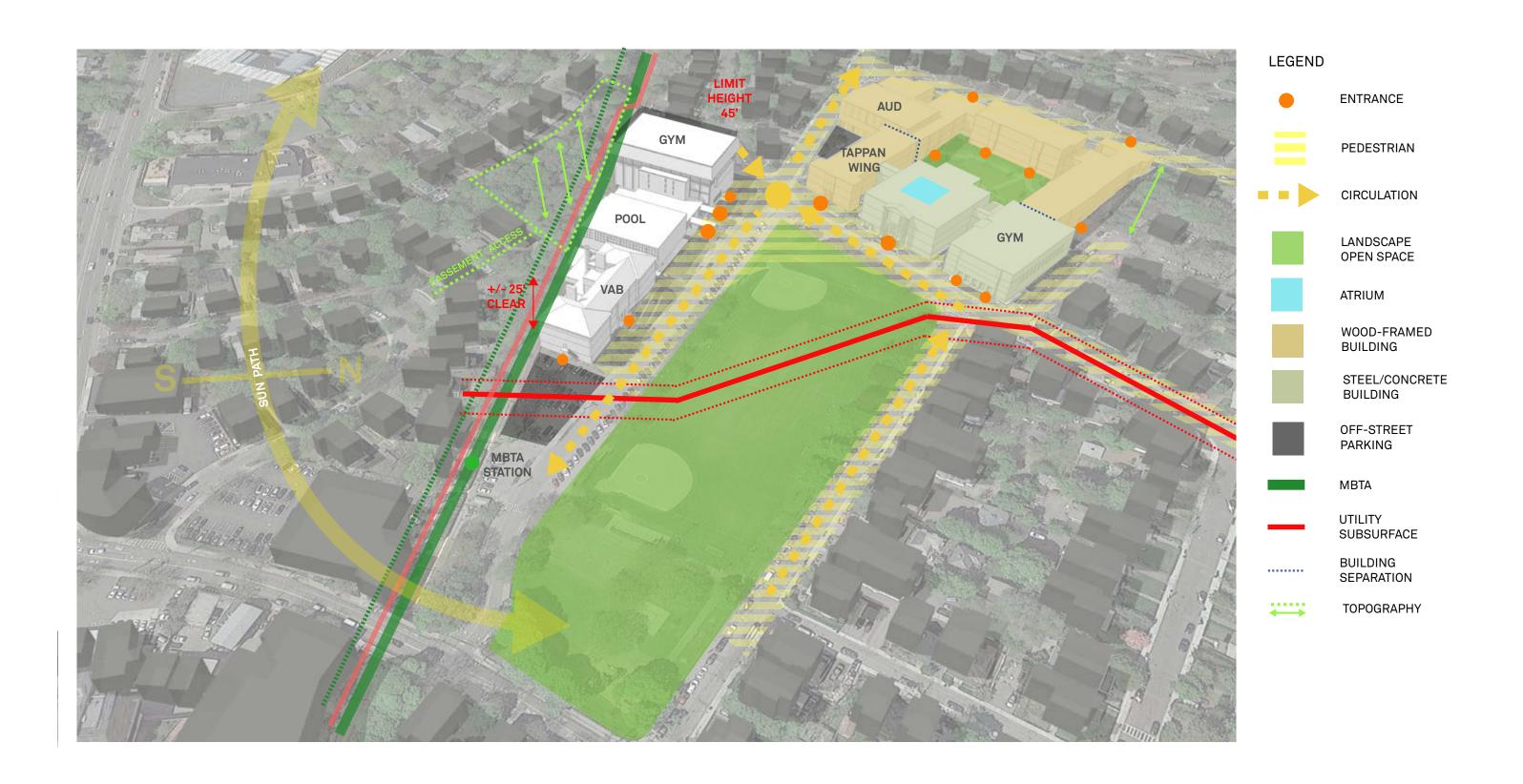
MA HS STANDARDS

The BHS expansion would be planned to generally conform to the standards currently used for other Massachusetts High Schools. Most other communities partner with the MSBA for funding, and are largely based on MSBA guidelines

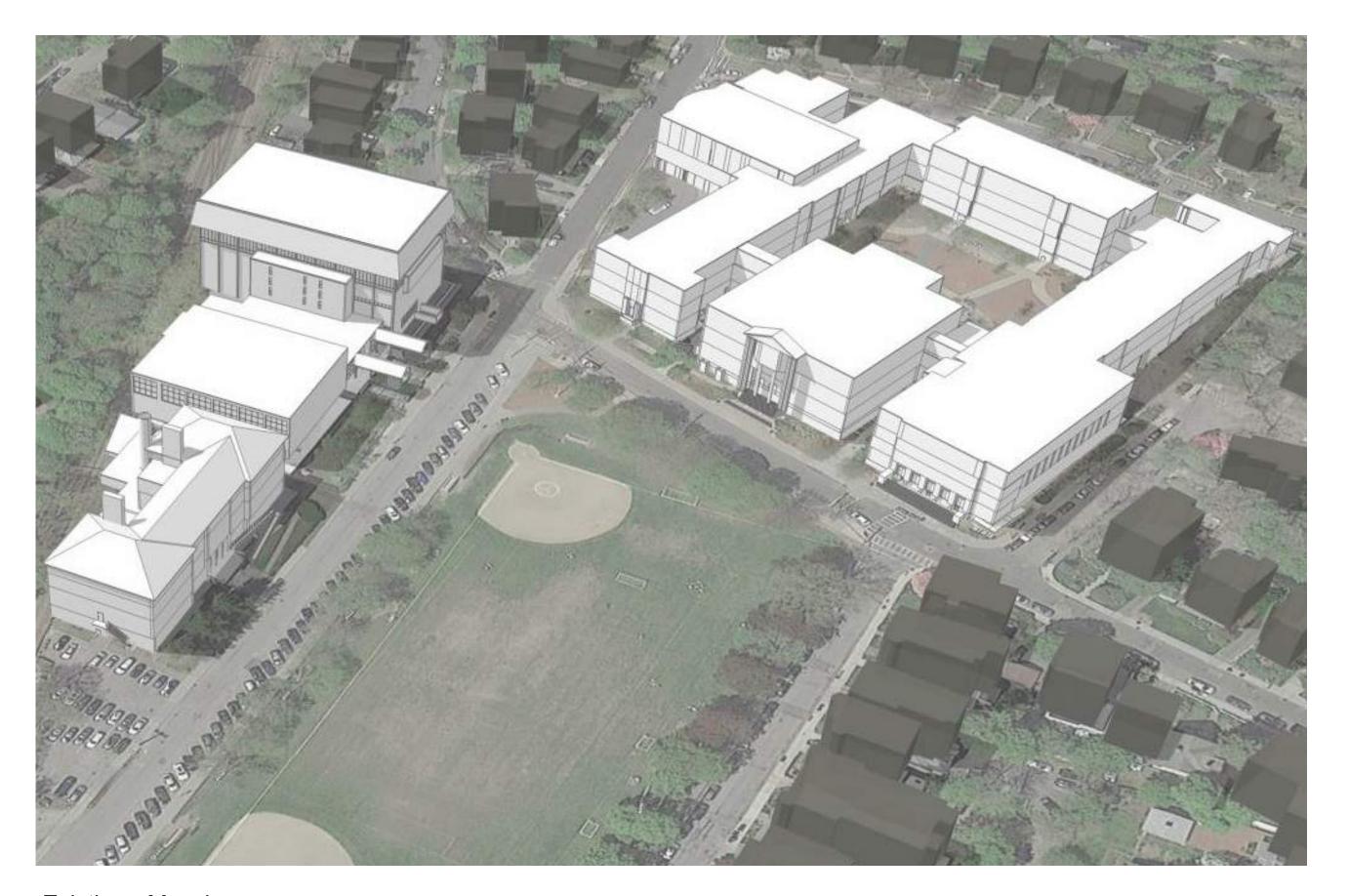
BHS EDUCATION PLAN

The BHS expansion would be planned to accommodate the goals set forth by the BHS community during the visioning sessions from the past 2 years and as set out in the Education Plan

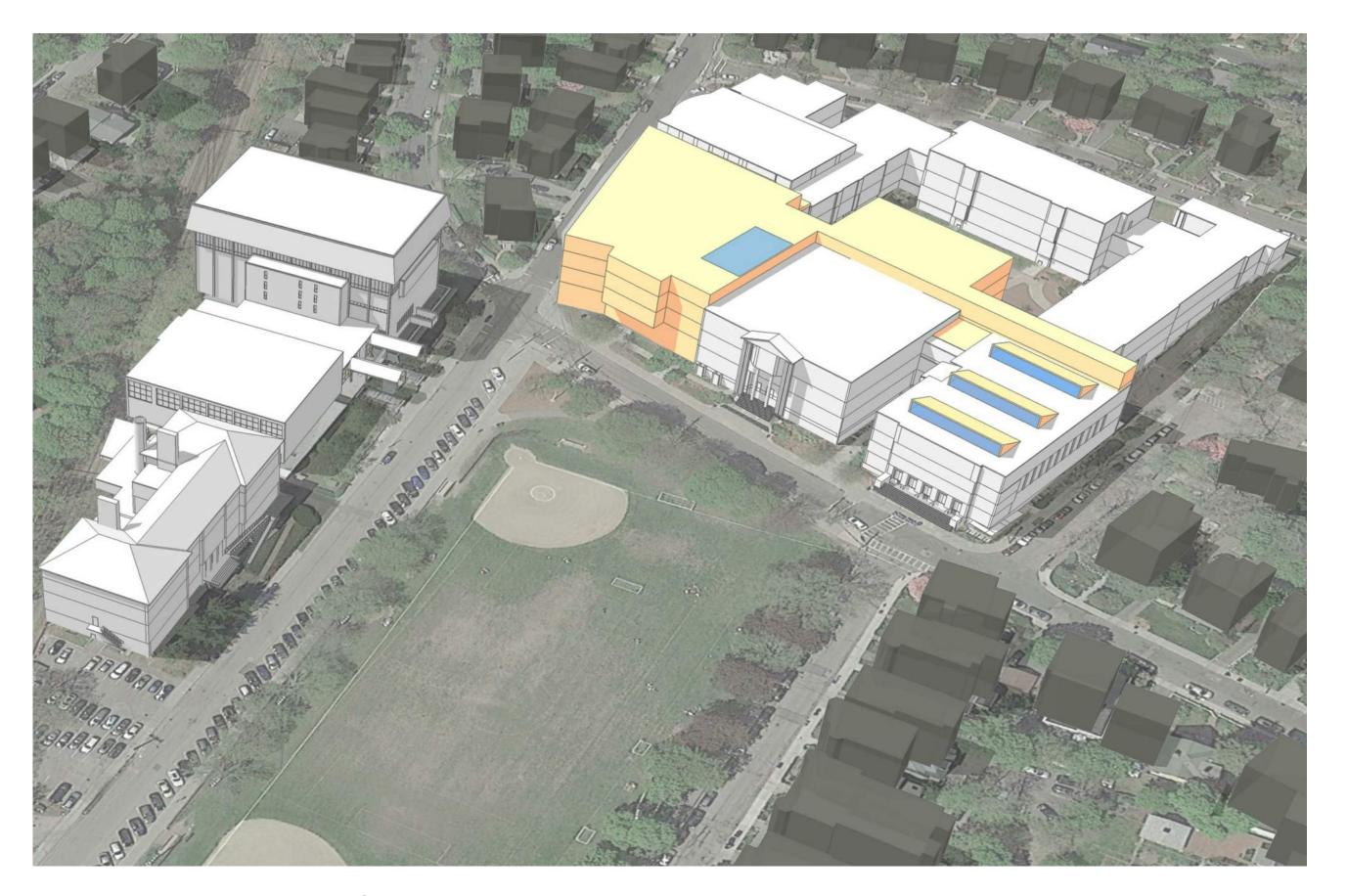
EXISTING CAMPUS CONDITIONS



Extent of Demolition	Extent of Demolition EXTENT OF INTERVENTION							
Light Renovations at Existing to Remain Code Renovations	ENROLLMENT ACCOMMODATION OPTION 1	MA HS STANDARDS OPTION 2	OPTION 3					
Program Renovations								
New Construction								
BHS								
Extent of Demolition	r - ¬							
Light Renovations								
Code Renovations								
Program Renovations								
New Construction								
Tappan Gym								
Renovations / New								
UAB								
Renovations / New								



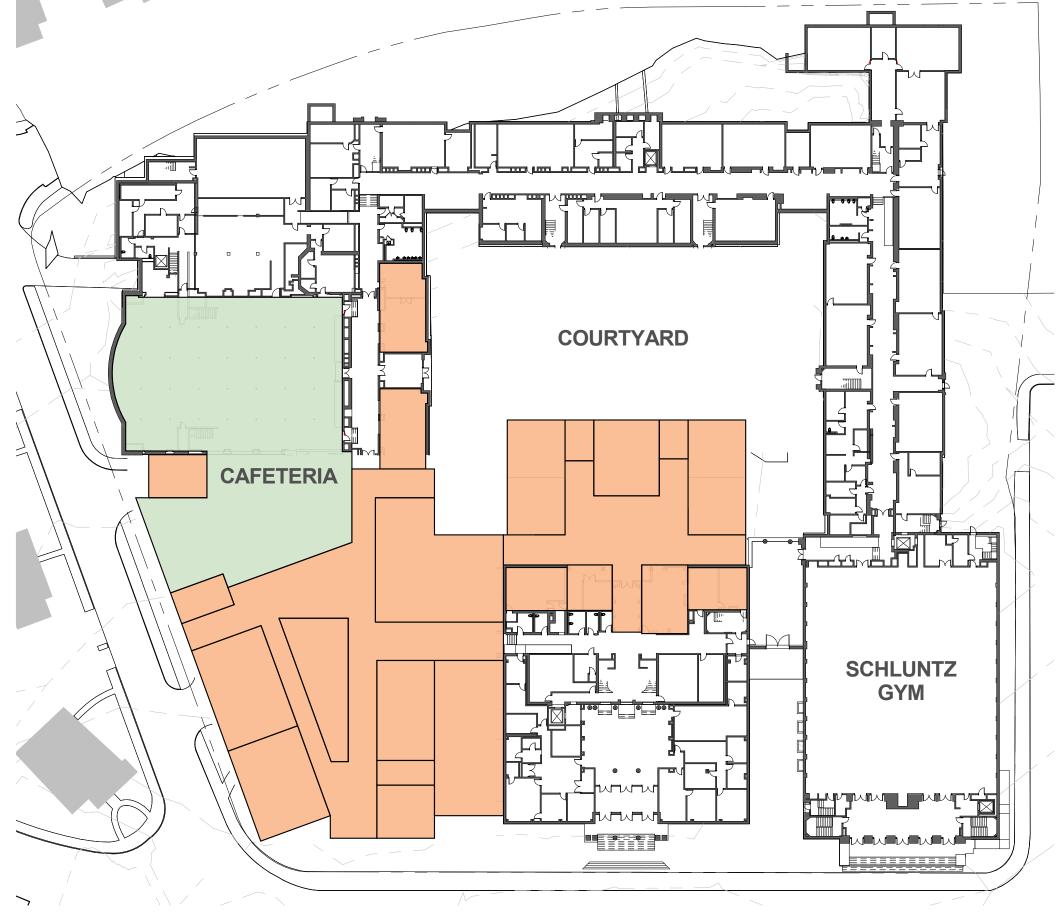
Existing - Massing
Brookline High School Expansion Feasibility Study



Enrollment Accommodation - Option 1 - Massing Brookline High School Expansion Feasibility Study

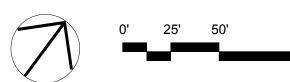
Brookline, MA



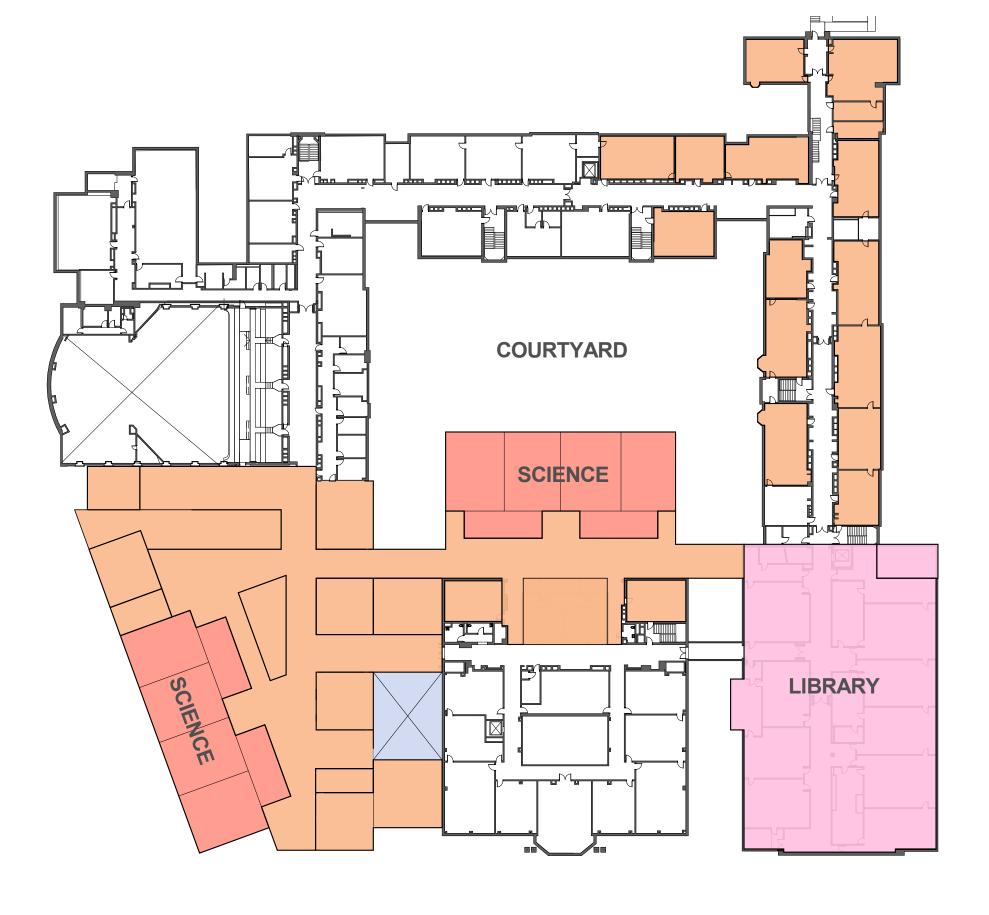


Enrollment Accomodation - Option 1 - First Floor Brookline High School Expansion Feasibility Study

Brookline, MA

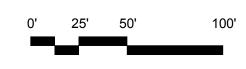


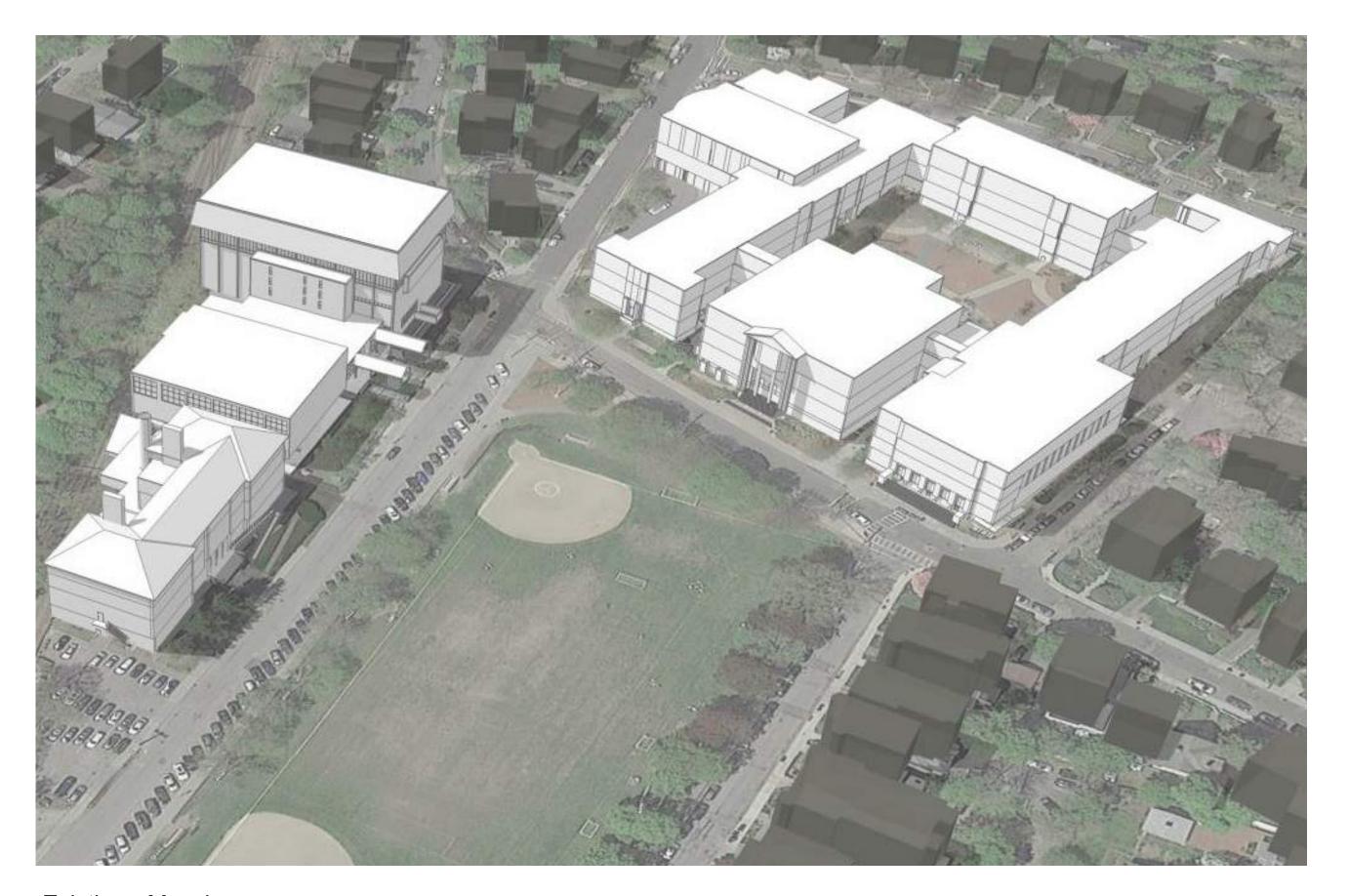
100' H M F H



Enrollment Accomodation - Option 1 - Third Floor **Brookline High School Expansion Feasibility Study** Brookline, MA



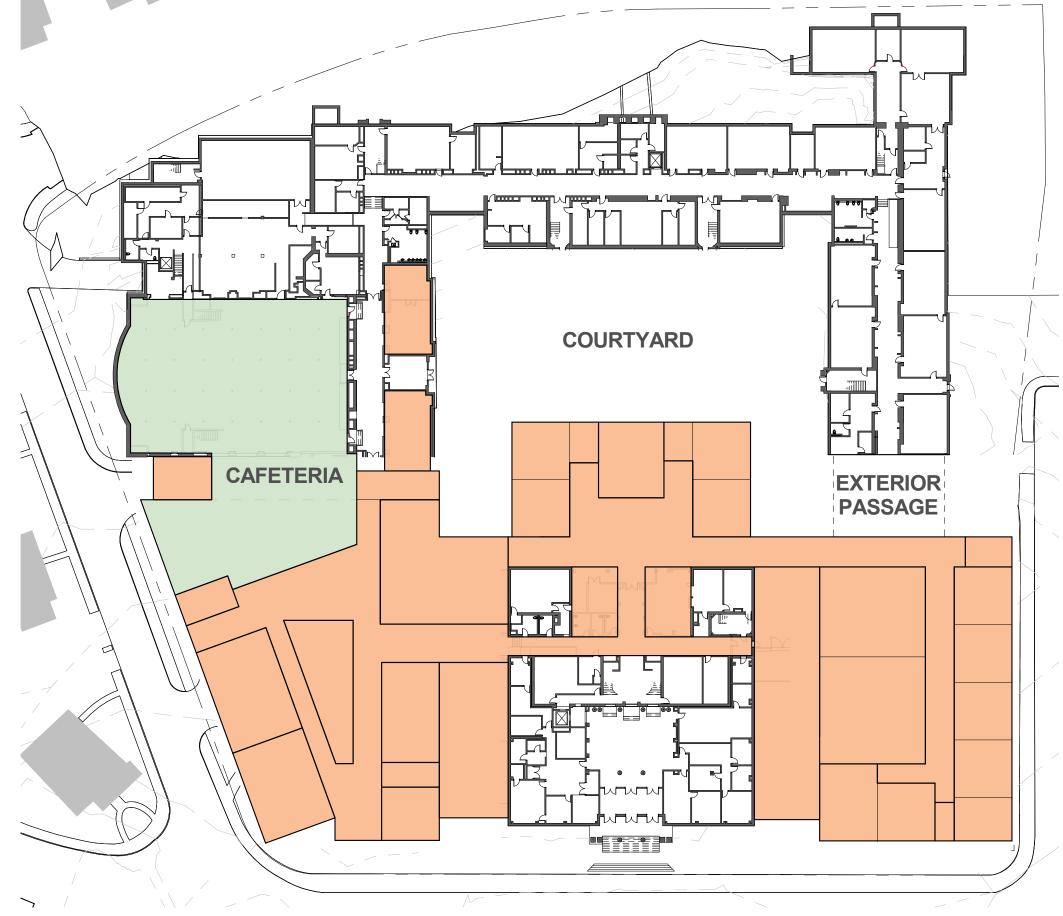




Existing - Massing
Brookline High School Expansion Feasibility Study



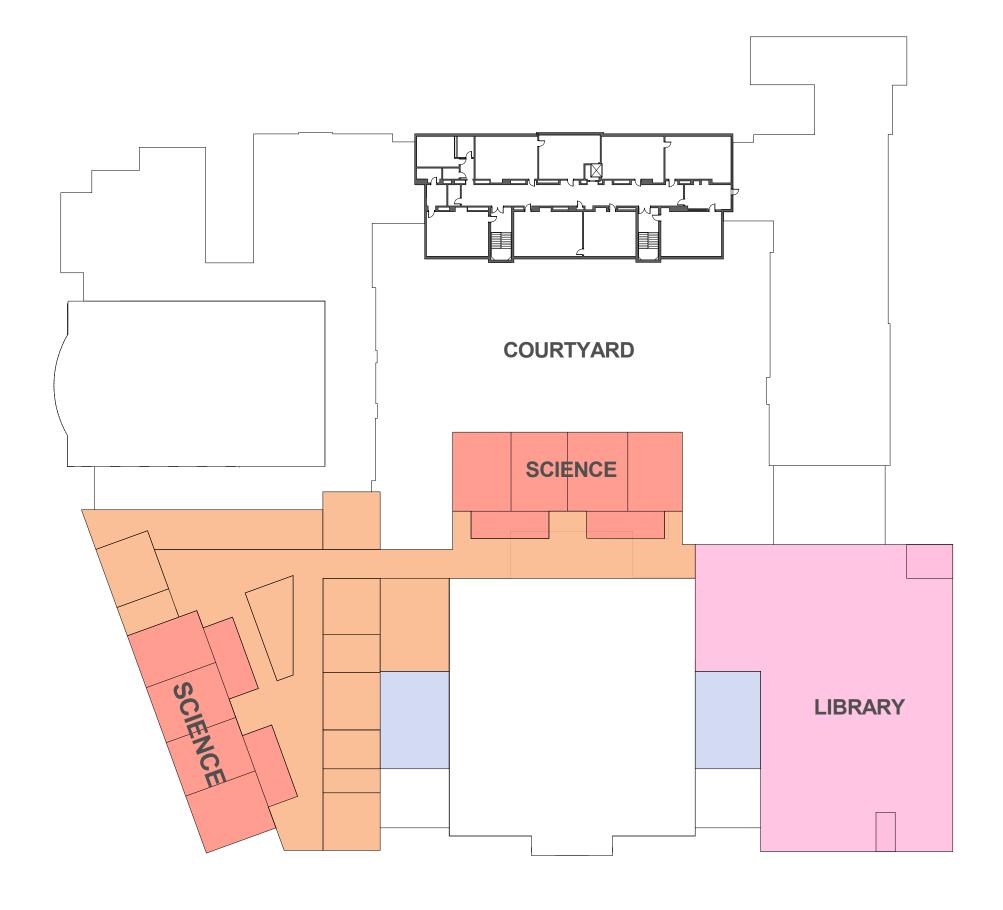
MA HS Standards - Option 2 - Massing **Brookline High School Expansion Feasibility Study** Brookline, MA



MA HS Standards - Option 2 - First Floor Brookline High School Expansion Feasibility Study

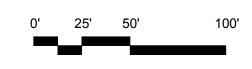


100' H M F H

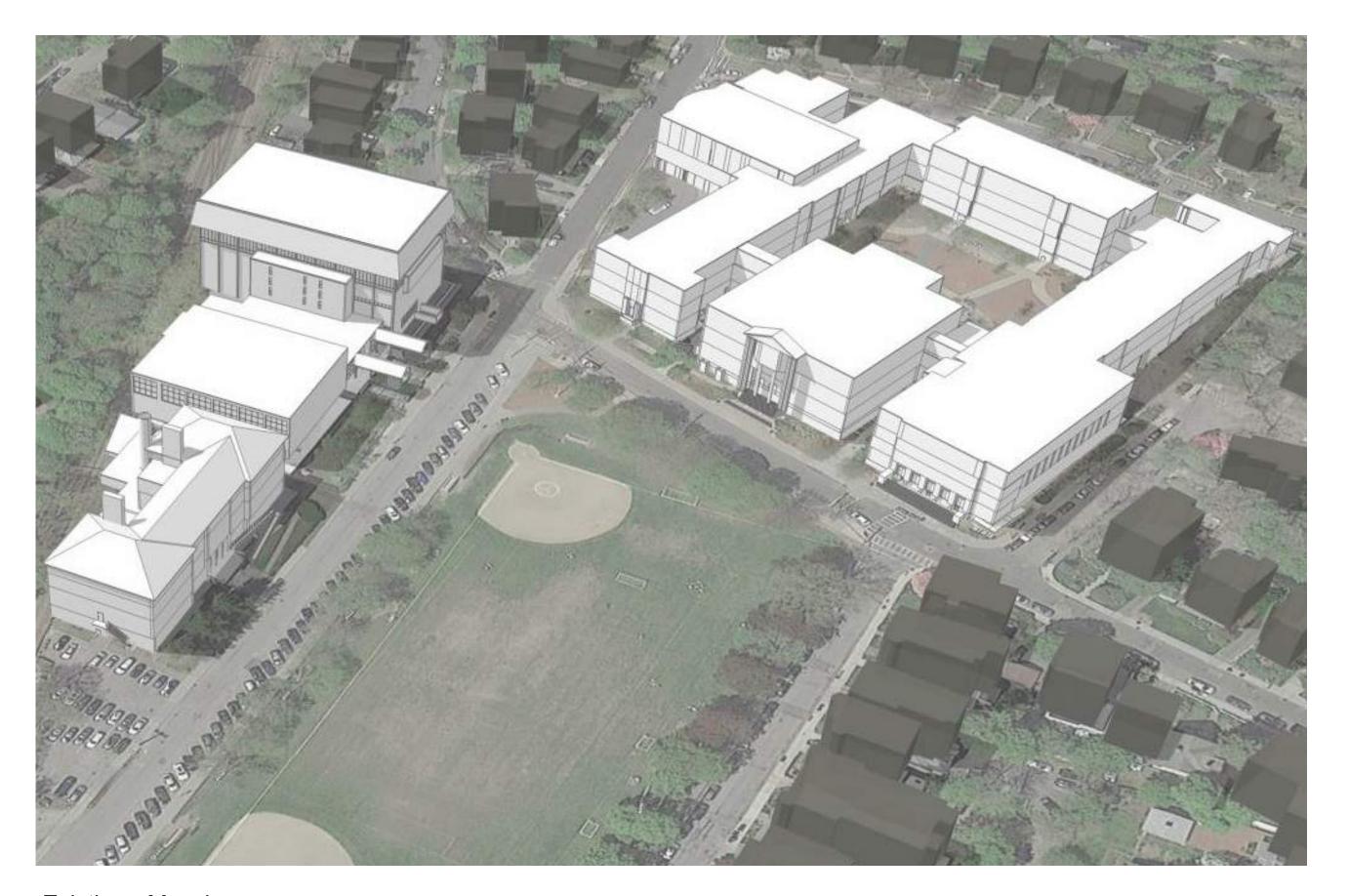


MA HS Standards - Option 2 - Fourth Floor Brookline High School Expansion Feasibility Study
Brookline, MA

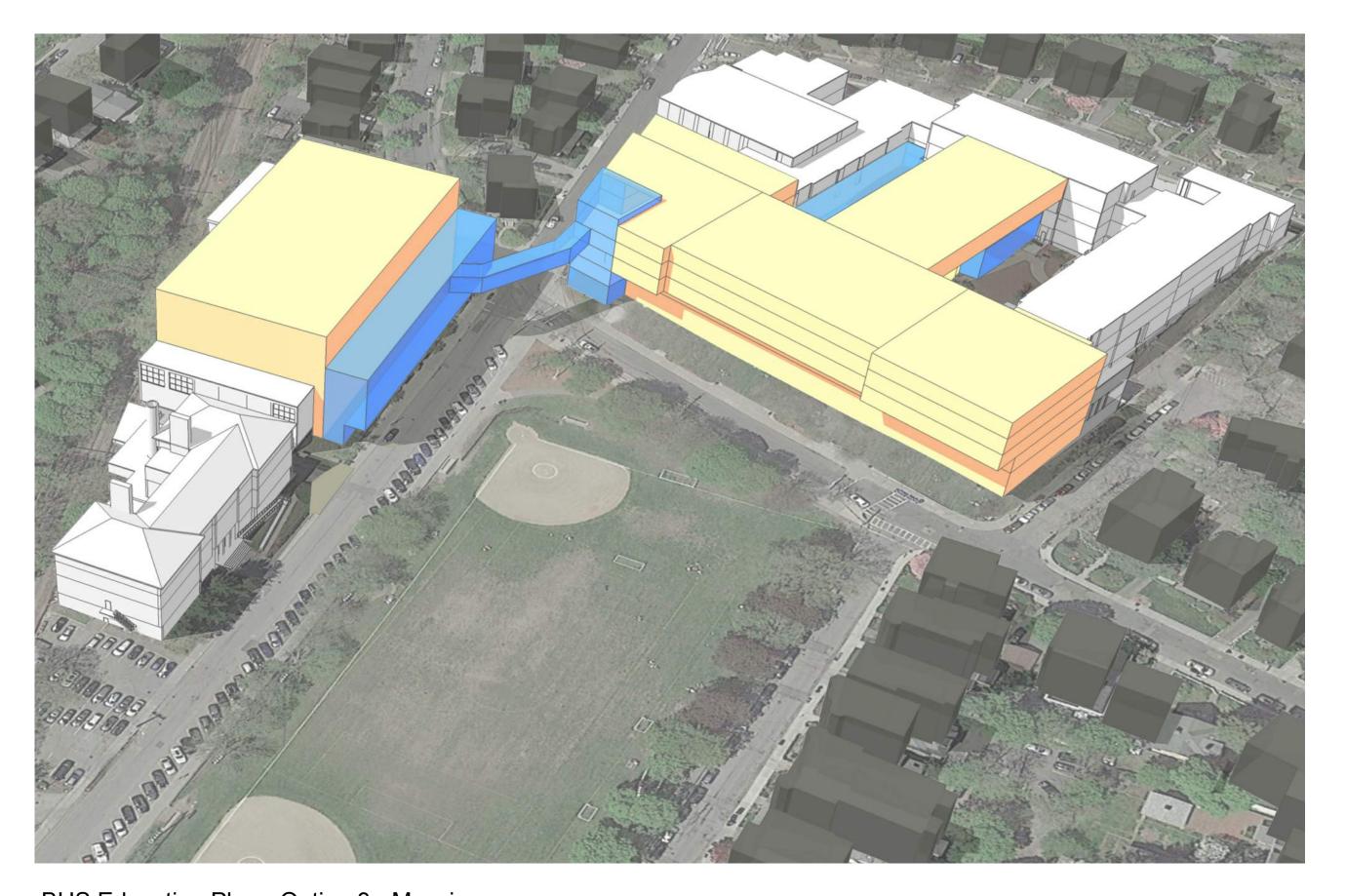




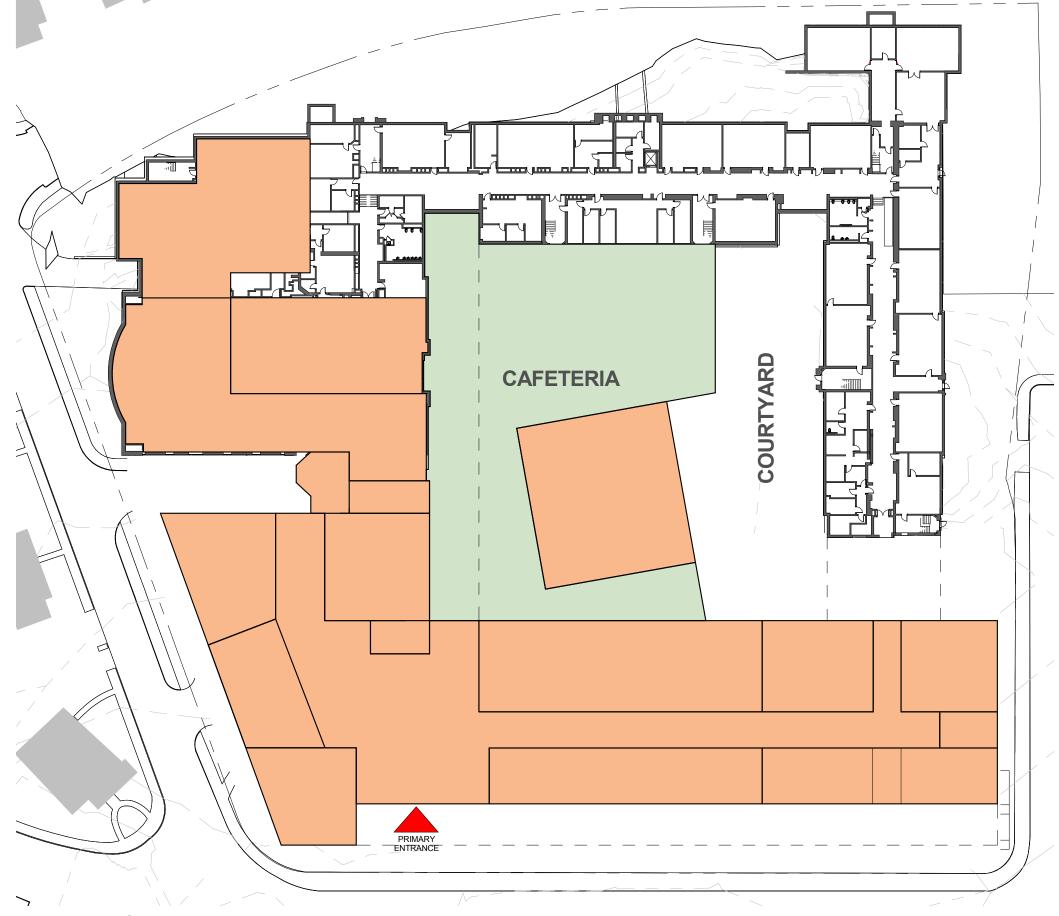
100' HM F H



Existing - Massing
Brookline High School Expansion Feasibility Study



BHS Education Plan - Option 3 - Massing Brookline High School Expansion Feasibility Study Brookline, MA



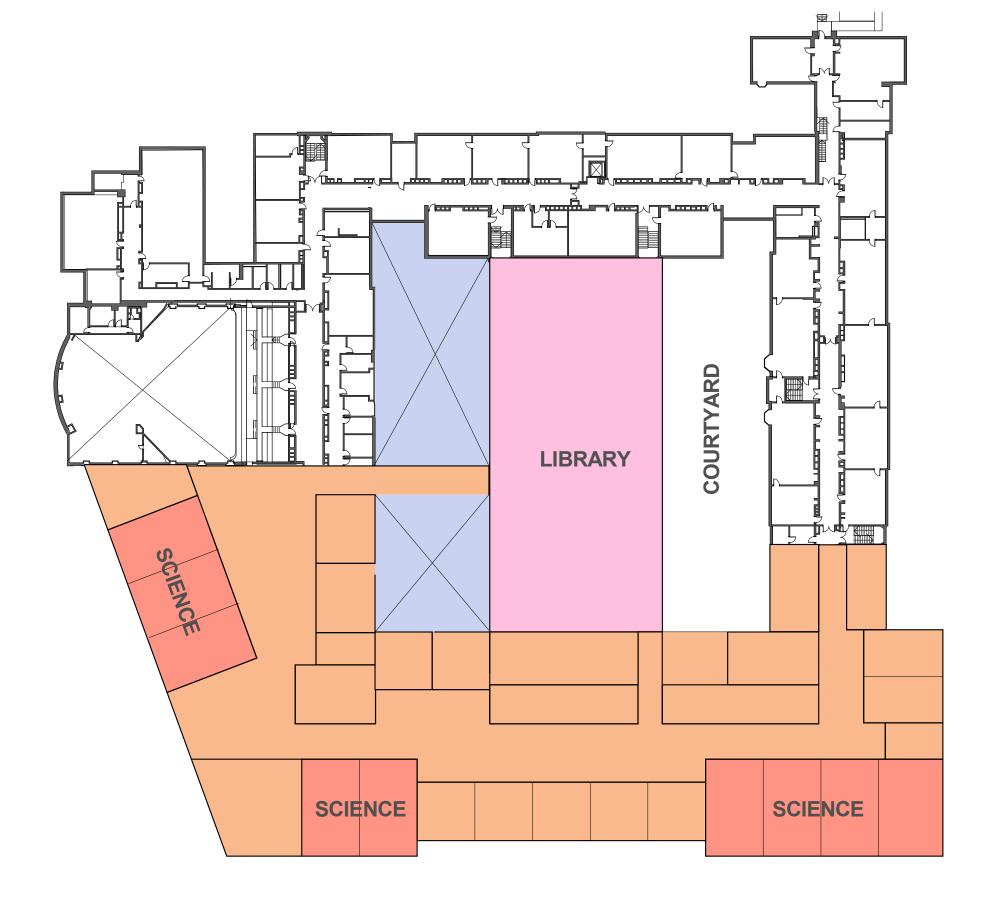
BHS Education Plan - Option 3 - First Floor Plan Brookline High School Expansion Feasibility Study

Brookline, MA





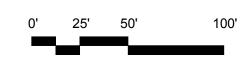
100' **H M F H**



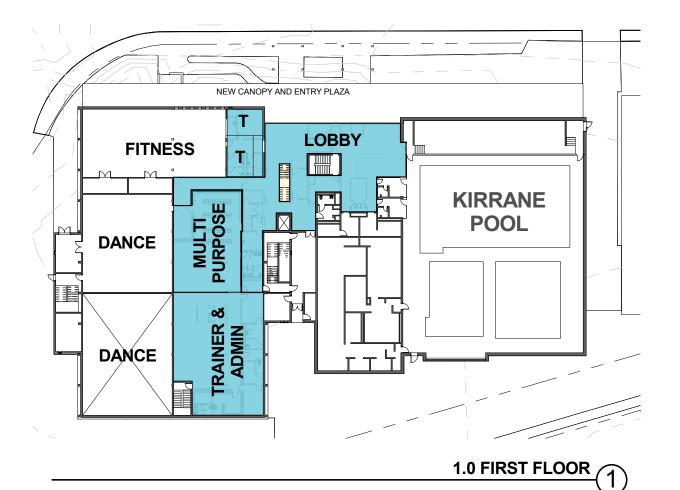
BHS Education Plan - Option 3 - Third Floor Plan Brookline High School Expansion Feasibility Study

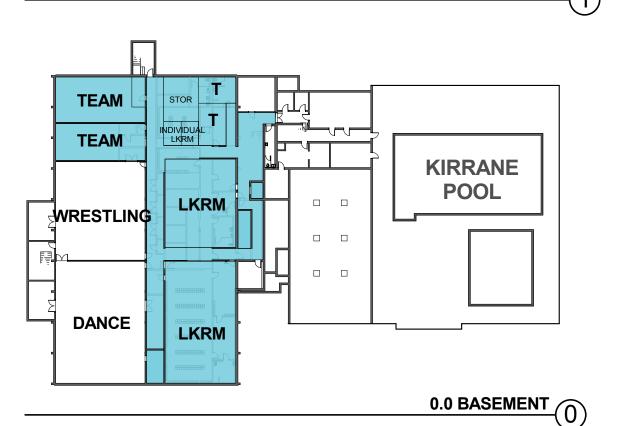
Brookline, MA





100' H M F H



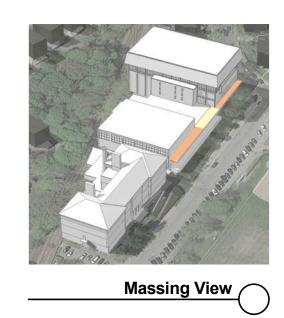


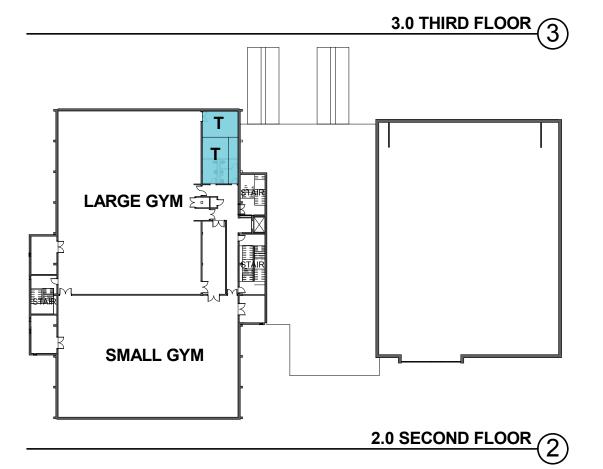
Tappan Gym - Option 1 - Enrollment Accomodation Brookline High School Expansion Feasibility Study

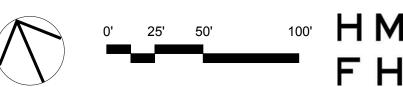
PAVILION

Mezzanine

4

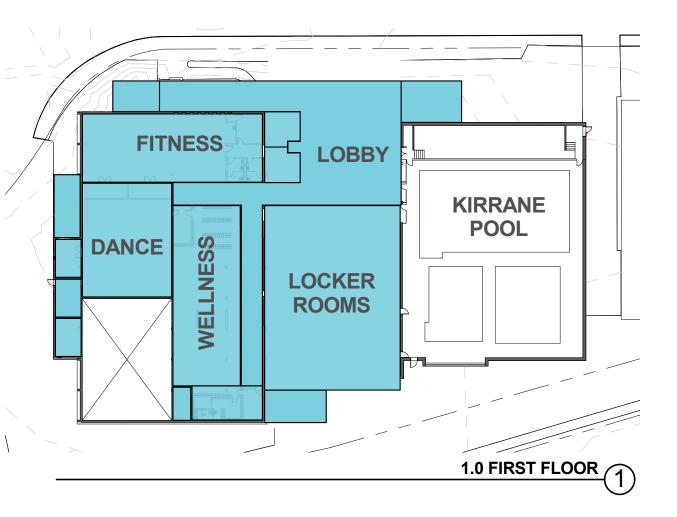


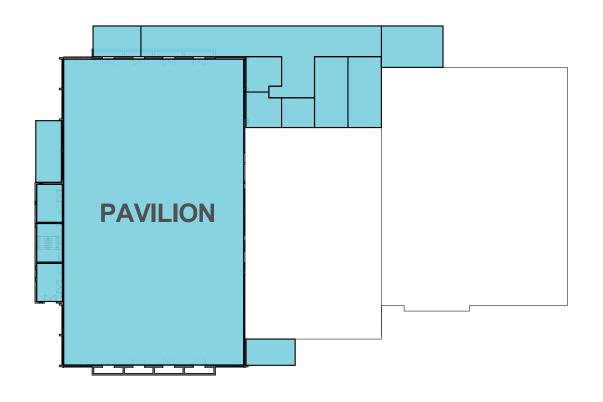




HMFH ARCHITECTS

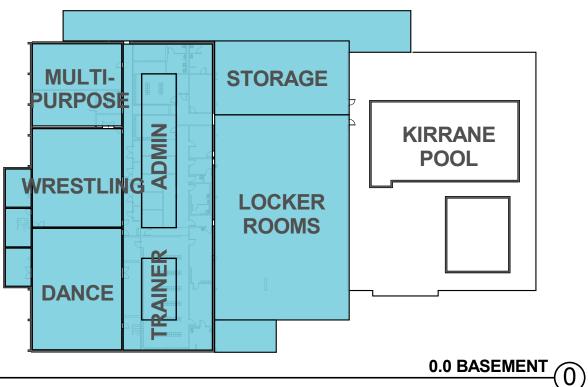
Brookline, MA



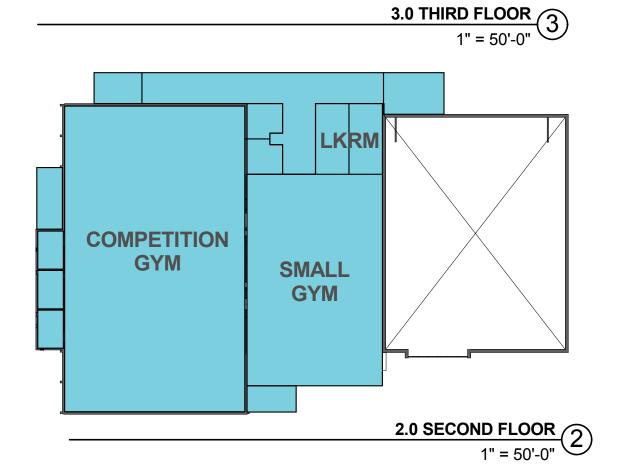




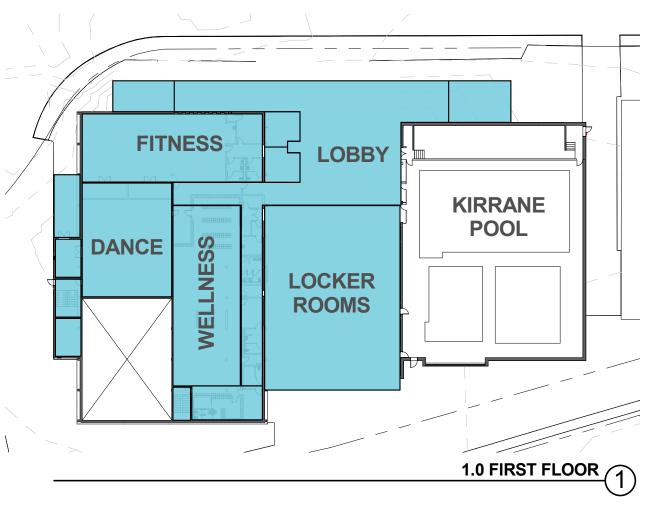
Massing View

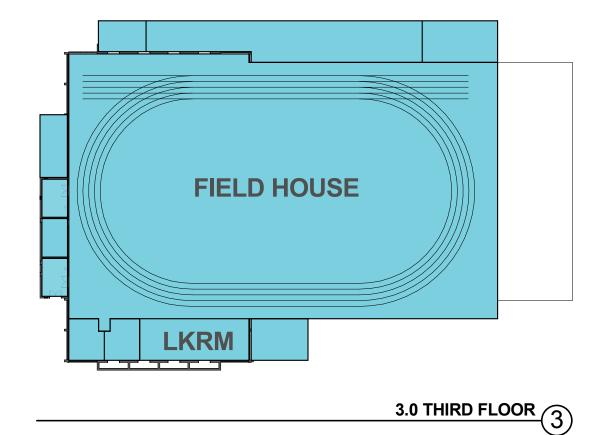


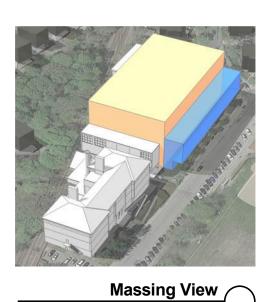
Tappan Gym - Option 2 - MA Standards
Brookline High School Expansion Feasibility Study
Brookline, MA



0' 25' 50' 100' **H M F H**







MULTI-PURPOSE

WRESTLING

LOCKER

ROOMS

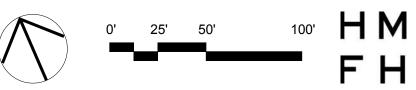
0.0 BASEMENT

O COMPETITION SMALL GYM

2.0 SECOND FLOOR 2

Tappan Gym - Option 3 - Education Plan Brookline High School Expansion Feasibility Study

Brookline, MA



Brookline High School Expansion Feasibility Study Design Alternate Comparisons

Improving Classroom Spaces

	OPTION 1 Enrollment Accommodation	OPTION 2 State High School Standards	OPTION 3 Education Plan
Current BHS Classrooms	69 Classrooms	69 Classrooms	69 Classrooms
Total Classrooms after expansion	92 Classrooms	95 Classrooms	98 Classrooms
Renovated, but still undersized Classrooms	29 Classrooms	5 Classrooms	0
Renovated Classrooms	42 Classrooms	45 Classrooms	46 Classrooms
New Classrooms	21 Classrooms	45 Classrooms	52 Classrooms
New Science Classrooms/Labs	24 Classrooms/Labs	24 Classrooms/Labs	24 Classrooms/Labs

Brookline High School Expansion Feasibility Study Design Alternate Comparisons

Program Expansion

	OPTION 1 Enrollment Accommodation	OPTION 2 State High School Standards	OPTION 3 Education Plan		
Cafeteria	Expand Existing	Expand Existing	New Cafeteria		
Library	Relocate and Renovate	Relocate and Renovate	New Expanded Library		
Collaborative Learning Commons	Minimal Additions	Moderate Additions	Significant Additions		
Performing Arts					
Black Box Theater	Keep Existing	Replace	Replace		
White Box Theater	Replace	Replace	Replace		
Additional Dance Studio	No	Yes	Yes		
400-Seat Theater	No	No	Yes		
Physical Education Facilities					
Schluntz Gym	Keep Existing	Replace at Tappan	Replace at Tappan		
Tappan Facility	Keep Existing	Moderate Expansion and Renovation	Major Renovation and Expansion including new Field House		

HMFH Architects Inc. March 15, 2017

Brookline High School Expansion Feasibility Study Design Alternate Comparisons

Area Expansion

	OPTION 1 Enrollment Accommodation	OPTION 2 State High School Standards	OPTION 3 Education Plan	
Main BHS Building				
Renovation Area	294,000 sq ft	229,000 sq ft	181,000 sq ft	
New Construction Area	165,000 sq ft	242,000 sq ft	298,000 sq ft	
Total Gross Sq Ft	459,000 sq ft	470,000 sq ft	479,000 sq ft	
Tappan Gym				
Renovation Area		60,000 sq ft	60,000 sq ft	
New Construction Area		49,000 sq ft	64,000 sq ft	
Total Gross Sq Ft		109,000 sq ft	124,000 sq ft	
Total Project Area	459,000 sq ft	579,000 sq ft	603,000 sq ft	

Brookline High School Expansion Feasibility Study

Order of Magnitude Cost Comparison

HMFH Architects Inc.
March 15, 2017

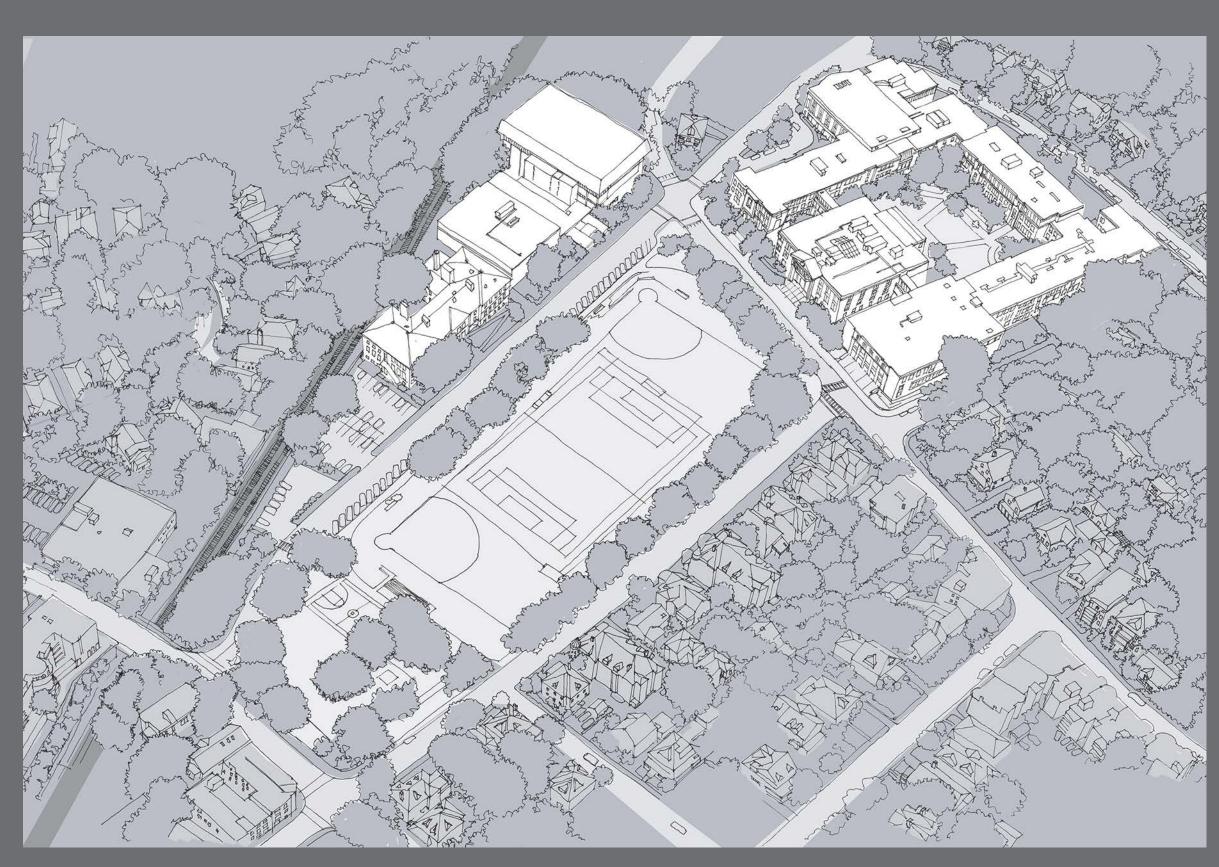
Brookline High School Options	No. of Students	_		Project Cost	C	ost/Student
OPTION 1 Enrollment Accommodation	2,700 ra	ange	\$ \$	168,000,000 184,000,000	\$ \$	62,222 68,148
with Optional Projects Minimal Tappan Renovation Parking Cypress Field Renovation			\$	245,000,000	\$	90,741
OPTION 2 State High School Standards (Tappan Renovation included)	2,700 ra	ange	\$ \$	258,000,000 286,000,000	\$ \$	95,556 105,926
with Optional Projects Parking Cypress Field Renovation			\$	336,000,000	\$	124,444
OPTION 3 Education Plan	2,700		\$	348,000,000	\$	128,889
(Tappan Renovation included) (Parking included) with Optional Projects Cypress Field Renovation			\$	363,000,000	\$	134,444

Brookline High School Expansion Feasibility Study

Order of Magnitude Cost Comparison

HMFH Architects Inc.
March 15, 2017

BHS OPTIONS	No. of Students		Project Cost	С	ost/Student
	2,700 ra	nge \$	168,000,000	\$	62,222
		\$	363,000,000	\$	134,444
Current MA High School Projects	No. of Students		Project Cost	C	ost/Student
Lowell - Renovation & Addition	3,520	\$	380,000,000	\$	107,955
Billerica - New	1,610	\$	176,000,000	\$	109,317
Stoughton - New	1,065	\$	123,500,000	\$	115,962
Saugus - New	1,360	\$	161,000,000	\$	118,382
Attleboro - New	1,725	\$	260,000,000	\$	150,725
Somerville - Renovation & Addition	1,590	\$	257,000,000	\$	161,635
Waltham - New	1,700	\$	283,500,000	\$	166,765





Q & A



For updates and information go to: www.brookline.k12.ma.us/BHSexpansion

BHS Expansion Building Committee



George Cole Co-Chair - Building Commission

Nancy Heller Co-Chair - Selectmen

Susan Wolf Ditkoff Co-Chair - School Committee

Nancy O'Connor Park & Recreation Commission

Ian Roffman School Parent Community Rep

Jordan Meranus School Parent Community Rep

Matthew Oudens Greater BHS Community Rep

Bobbie Knable Greater BHS Community Rep

Mel Kleckner Town Administrator

Daniel Bennett Building Commissioner

Andrew Bott Superintendent of Schools

Mary Ellen Dunn Deputy Superintendent for

Administration and Finance

Nicole Gittens Deputy Superintendent for Teaching

and Learning

Anthony Meyer BHS Headmaster

Jenee Ramos BHS Dean of Faculty

Nicholas Gerszten BHS Student Representative

Ray Masak Project Manager, Building

Department



Next Steps and Timeline

For updates and information go to: www.brookline.k12.ma.us/BHSexpansion

Timeline this Spring



January – March: HMFH develops Design Alternatives

March: Design Alternatives presented to Building

Committee and Community

April: Building Committee selects Preferred

Design

Preferred Design finalized and Final

Feasibility Report completed

May: Town Meeting: Request for Schematic

Design Funding

Public Engagement During Feasibility



Building Committee Meetings

January 1; February 1; March 1, 13, 29; April 12, 26

Community meetings

January 12, March 15, April (TBD)

Working meetings with BHS staff and Partners

- Weeks of January 16 and 23
- Weeks of March 20 27
- Weeks of April 27 and May 3

Public Meetings with Town Boards and Commissions

Parks and Recreation (monthly), Building Commission, Transportation,
 Preservation, Advisory Committee

Aspirational Timeline Beyond Feasibility Phase



October 2017

- Complete Schematic Design
- Public presentations and hearings

Winter 2017-8

 Debt Exclusion Override to fund Construction Drawings and Construction

January 2019

- Groundbreaking for construction
- Duration = 29 months; depends heavily on phasing

Fall 2021: Construction Complete