PUBLIC SCHOOLS OF BROOKLINE



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

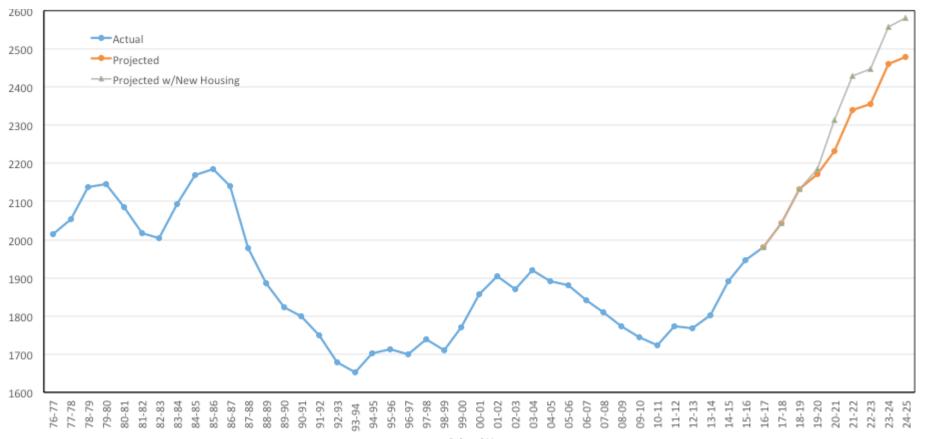
For updates and information go to: www.brookline.k12.ma.us/BHSexpansion

Why do we need to expand BHS?





BHS Enrollment: 1976 – 2026



School Year

BHS Enrollment is increasing rapidly



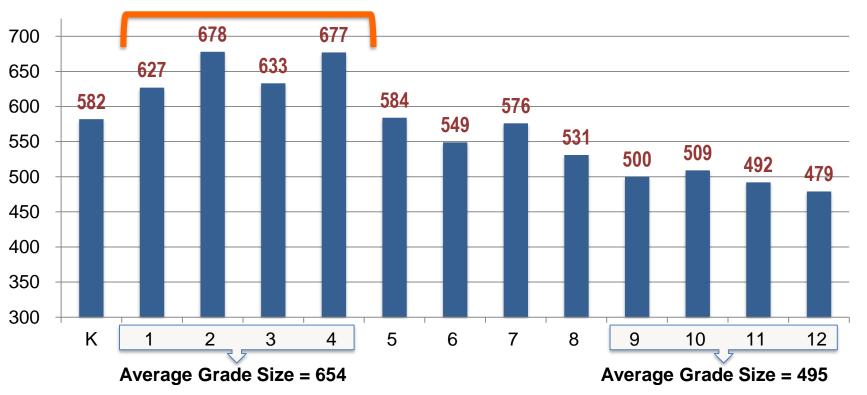
1,726

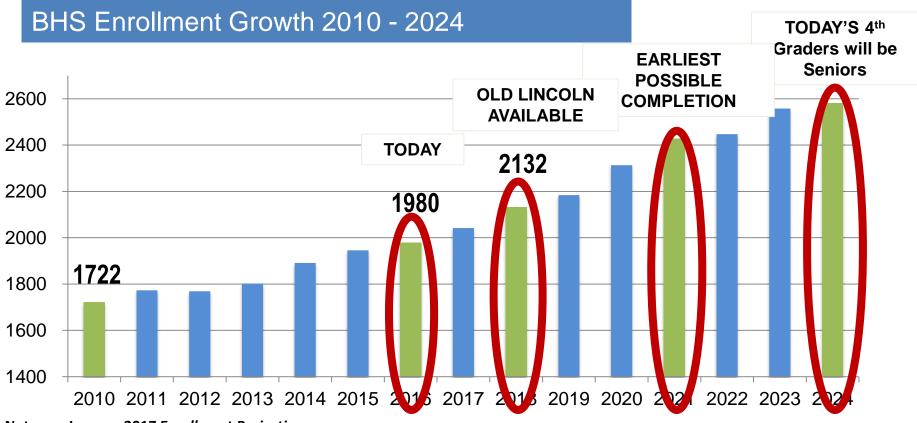
- 2010 2011BHS Student Enrollment:
- 2016 2017 Current Enrollment: 1,980 (+254)
- 2021 2022 (Short Term Increase): 2,428 (+702)
- 2024 2025 (Longer Term Projection): 2,582 (+856)

50% growth between 2010 and 2024

PSB Enrollment by Grade 2016 - 2017

@ BHS IN Fall 2024





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

The BHS Education Plan





Our Framing Questions



- 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

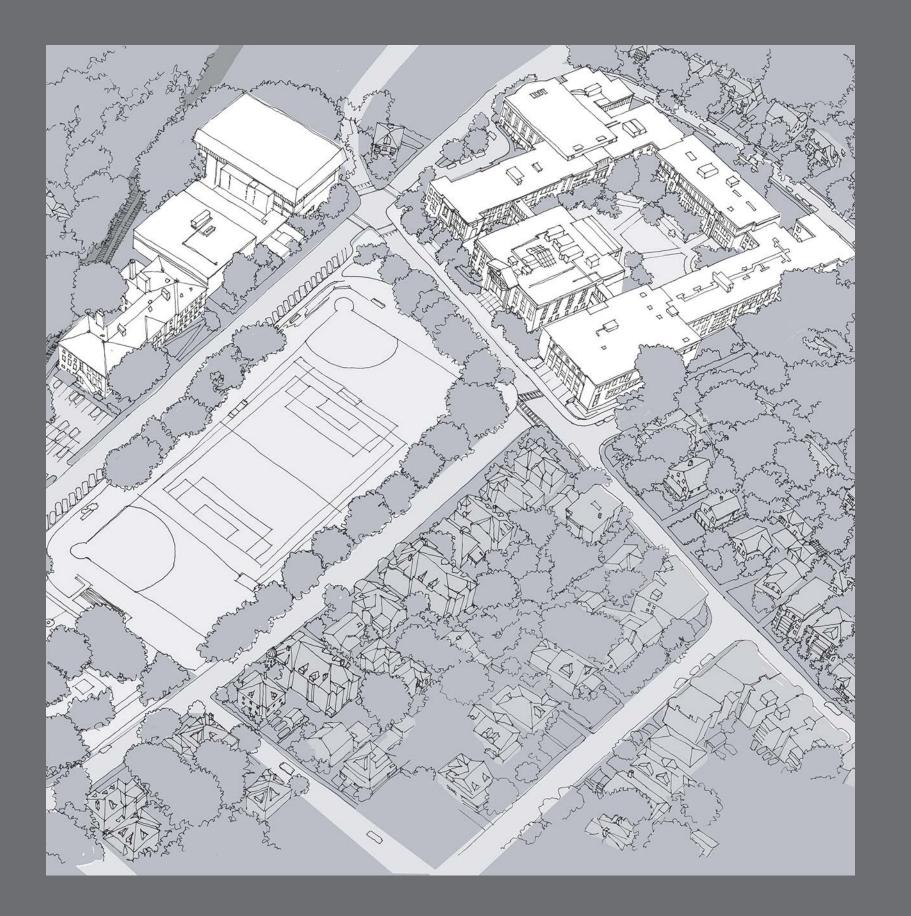


Comprehensive Transition Plan will be developed in Fall 2017

- Construction phasing plan will determine which spaces will be offline and when ٠
- 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 ٠
- New course offerings expand access and focus on innovation/interdisciplinary study ٠
- Review of alternative programs beginning in Spring 2017 to assess need for expansion or ٠ additional programming
- Redefining the administrative and student support structure ٠



Community Meeting

Brookline High School Campus Expansion Update

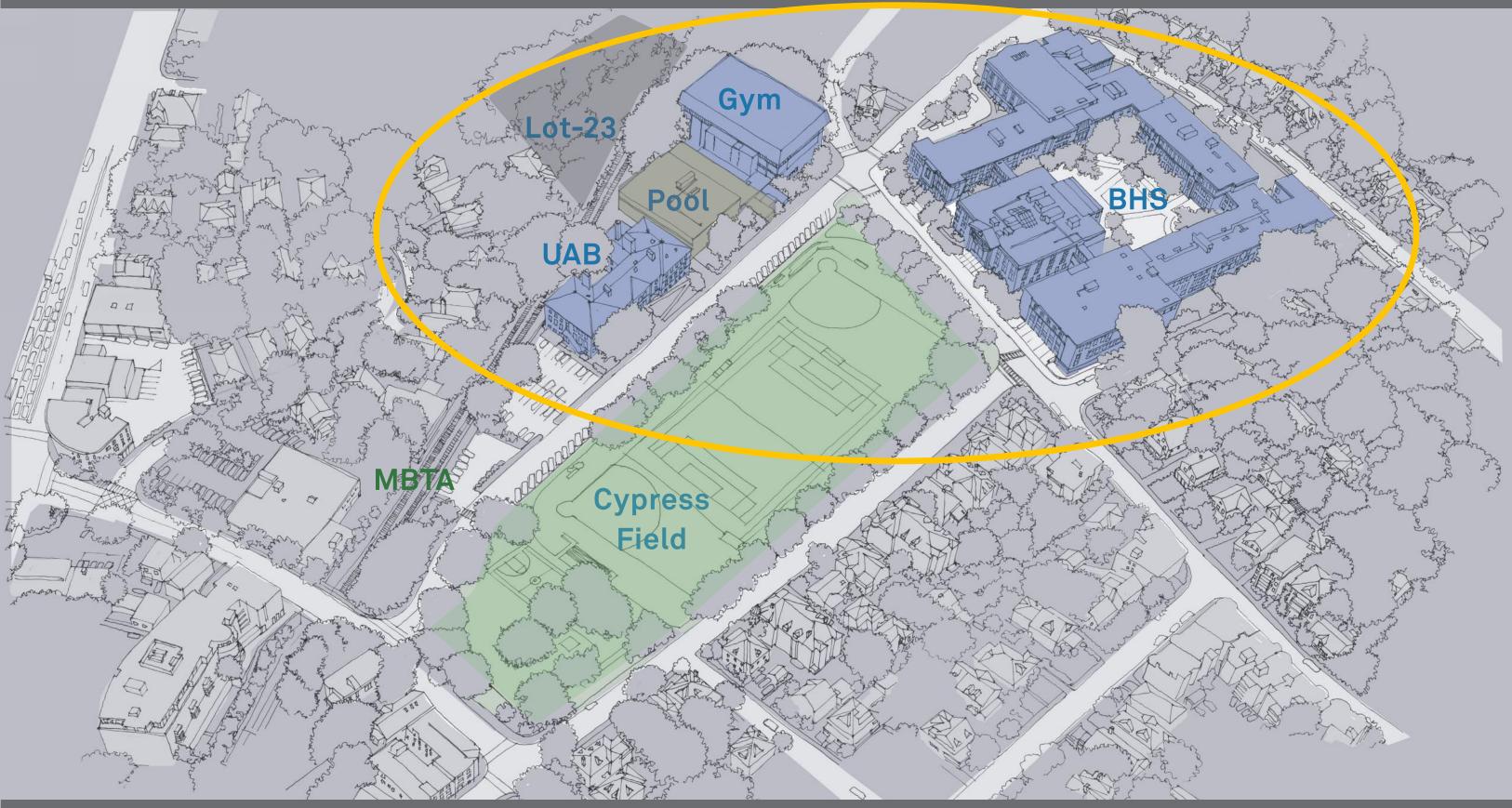
Feasibility Study MARCH 15, 2017







PRELIMINARY CAMPUS MASSING OPTIONS



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.

GUIDING STATEMENTS

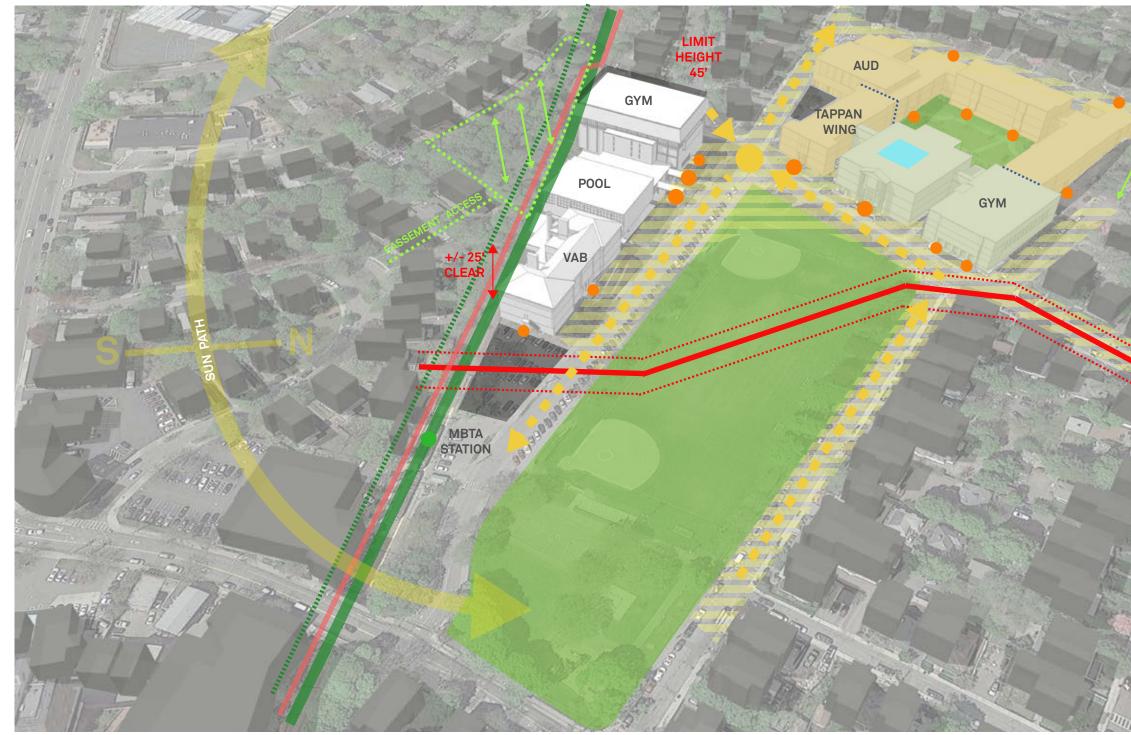
MA HS STANDARDS

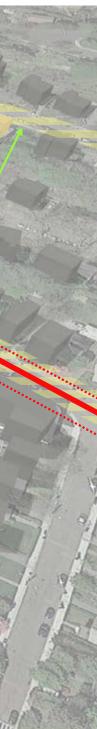
The BHS expansion would be	The BHS
planned to generally conform	be plan
to the standards currently	the goal
used for other Massachusetts	BHS cor
High Schools. Most other	visionin
communities partner with	past 2 y
the MSBA for funding, and	the Edu
are largely based on MSBA	
guidelines	

BHS EDUCATION PLAN

- IS expansion would
- nned to accommodate
- als set forth by the
- ommunity during the
- ing sessions from the
- years and as set out in
- ucation Plan

EXISTING CAMPUS CONDITIONS





LEGEND

•	ENTRANCE
	PEDESTRIAN
>	CIRCULATION
	LANDSCAPE OPEN SPACE
	ATRIUM
	WOOD-FRAMED BUILDING
	STEEL/CONCRETE BUILDING
	OFF-STREET PARKING
	MBTA
	UTILITY SUBSURFACE
	BUILDING SEPARATION
\leftrightarrow	TOPOGRAPHY

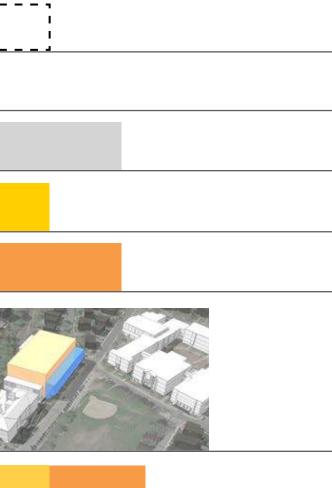
Extent of Demolition	EXTENT	OF INTEI	RVEN ⁻	ΓΙΟΝ	
Light Renovations at Existing to Remain Code Renovations	ENROLLMENT AC		MA HS STA	ANDARDS	EDUCA ^T
Program Renovations	Con In	A Starting	100 M	Las and an	C. Sala
New Construction					
BHS					
Extent of Demolition	r - 1 		r		r
Light Renovations					<u>6 </u>
Code Renovations					
Program Renovations					
New Construction					
Tappan Gym					
Renovations / New					
UAB					
Renovations / New					

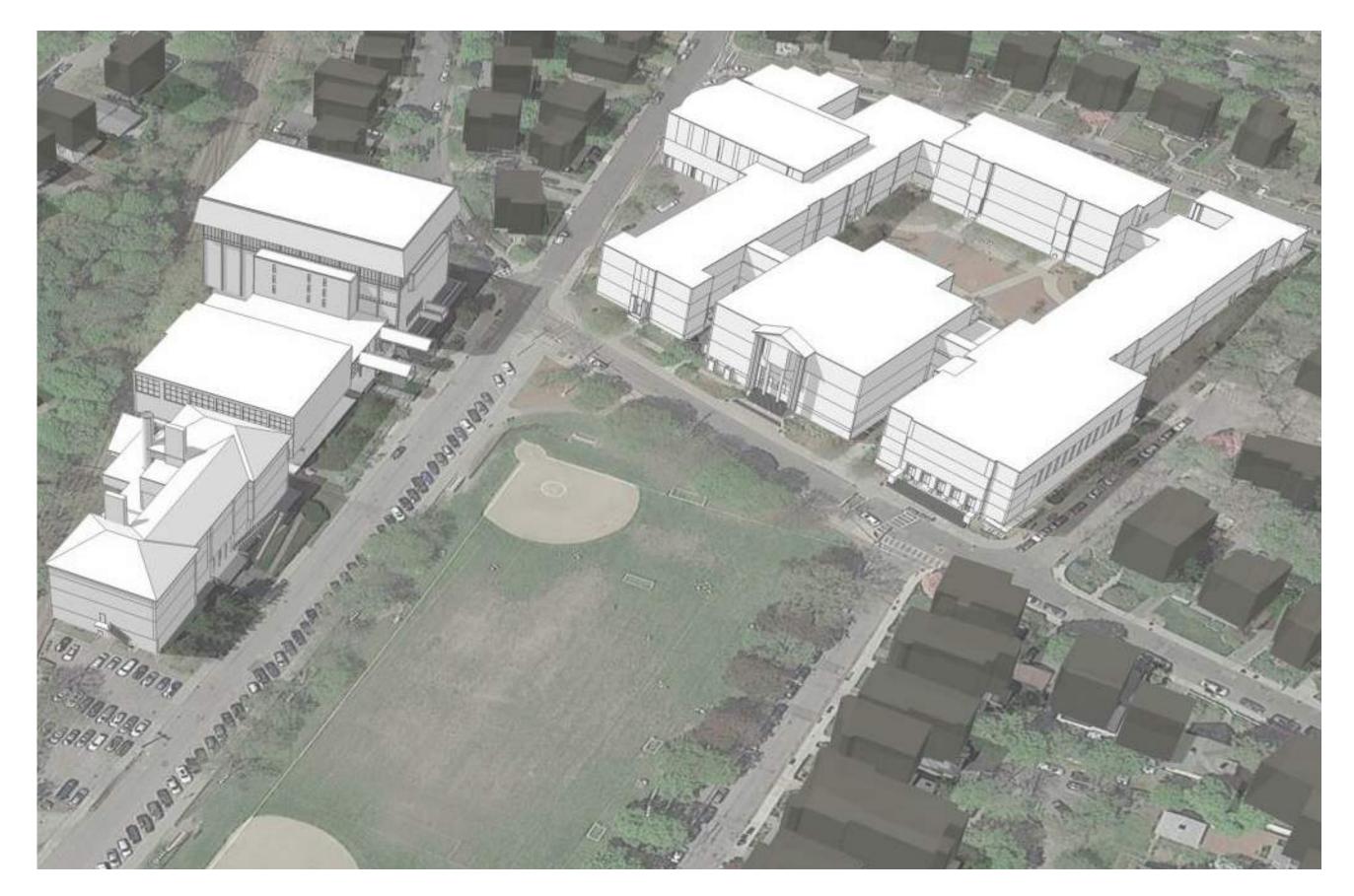
OTHER (not shown)

Parking, Cypress Park, Field, and Playground

TION PLAN



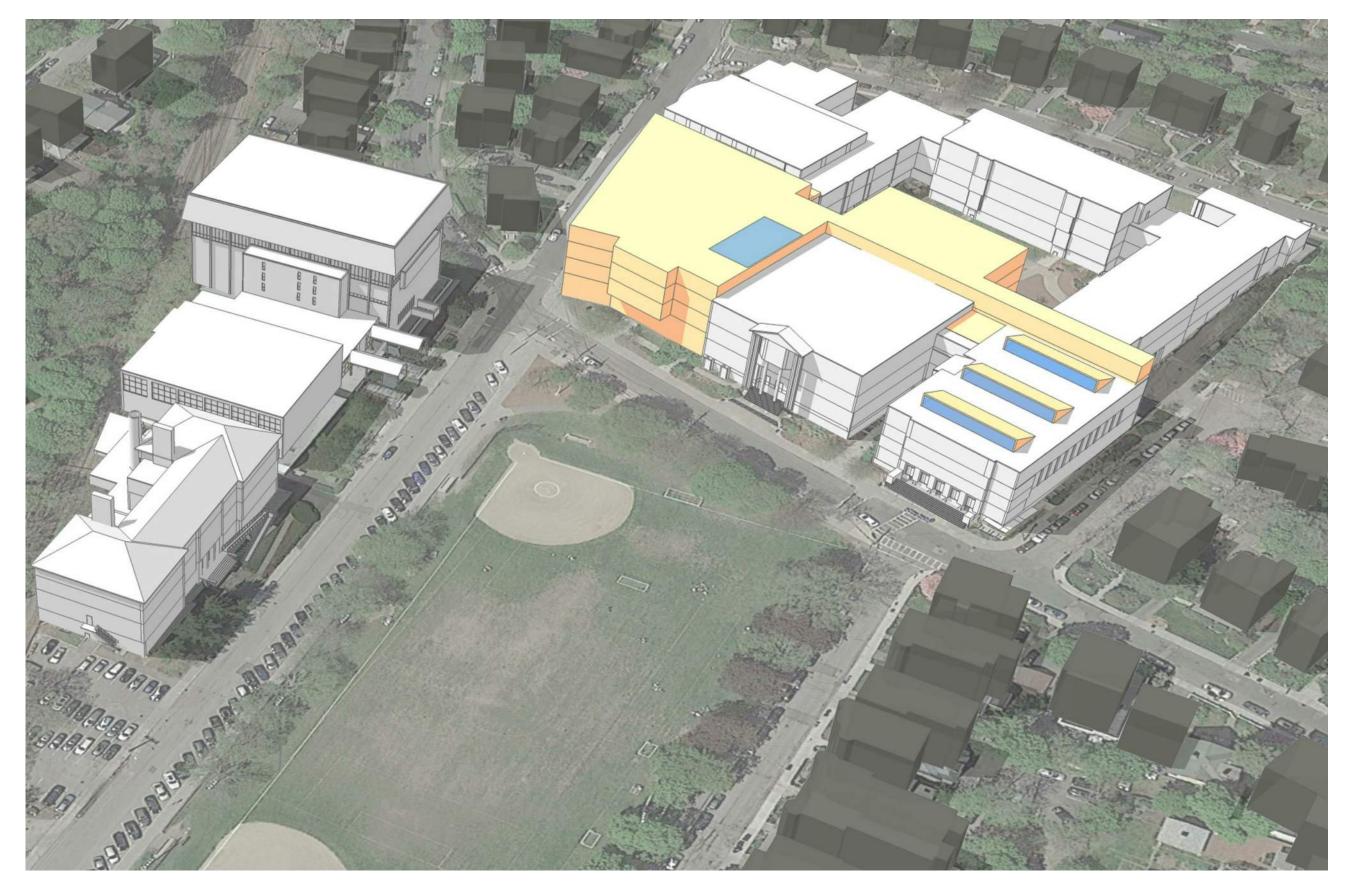




Existing - Massing Brookline High School Expansion Feasibility Study Brookline, MA

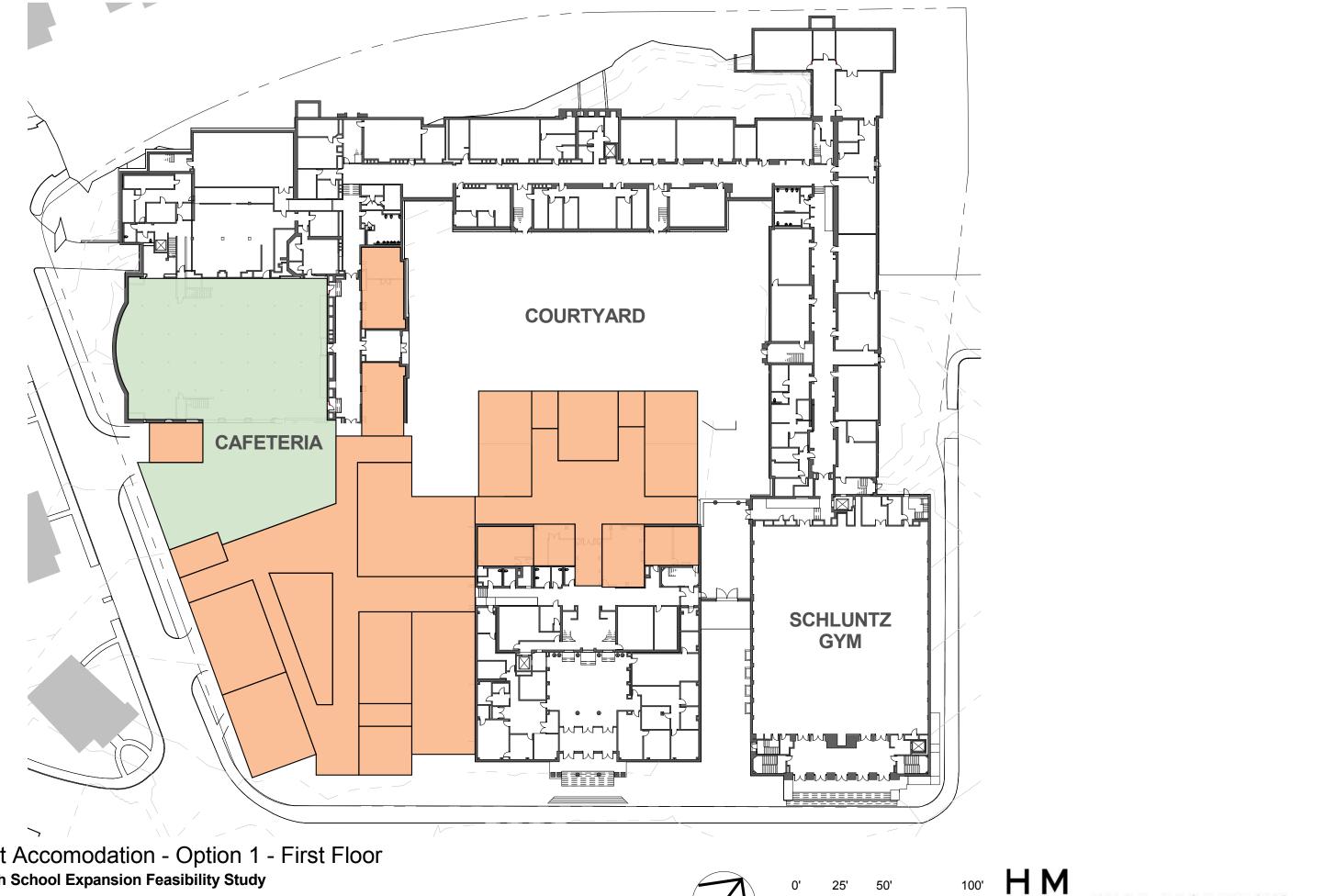
HMFH ARCHITECTS

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

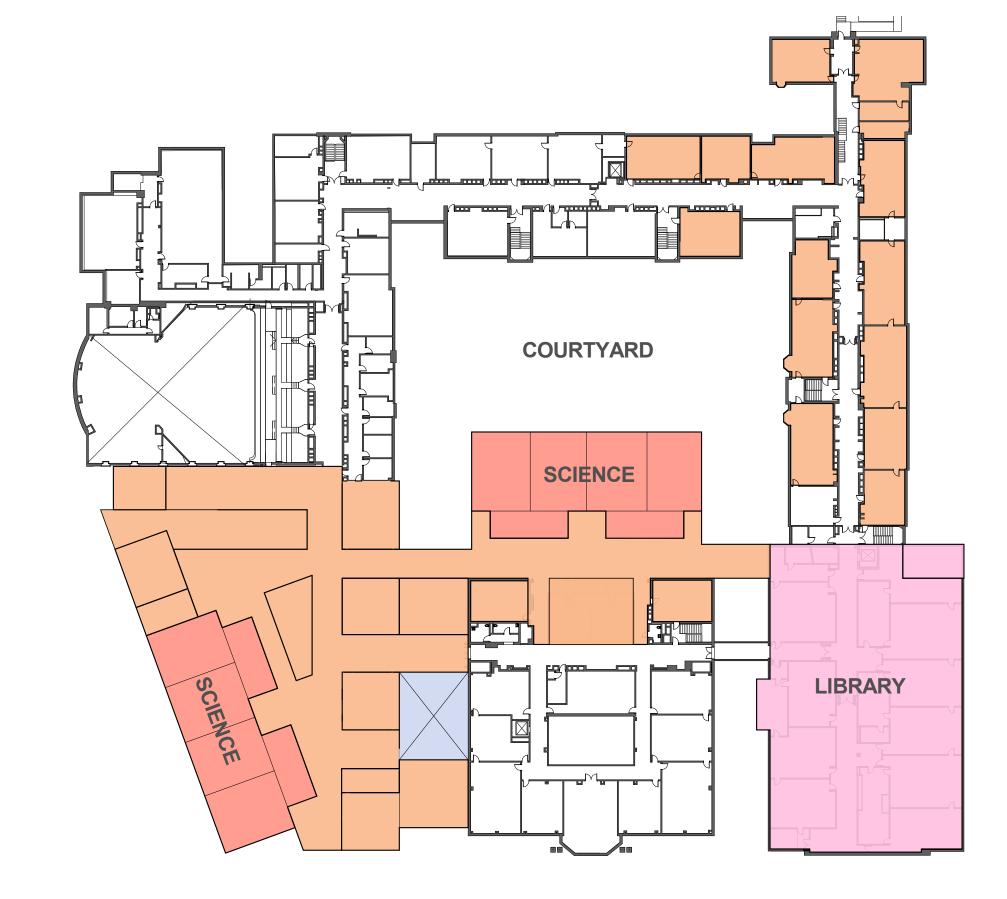
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Enrollment Accomodation - Option 1 - First Floor Brookline High School Expansion Feasibility Study Brookline, MA



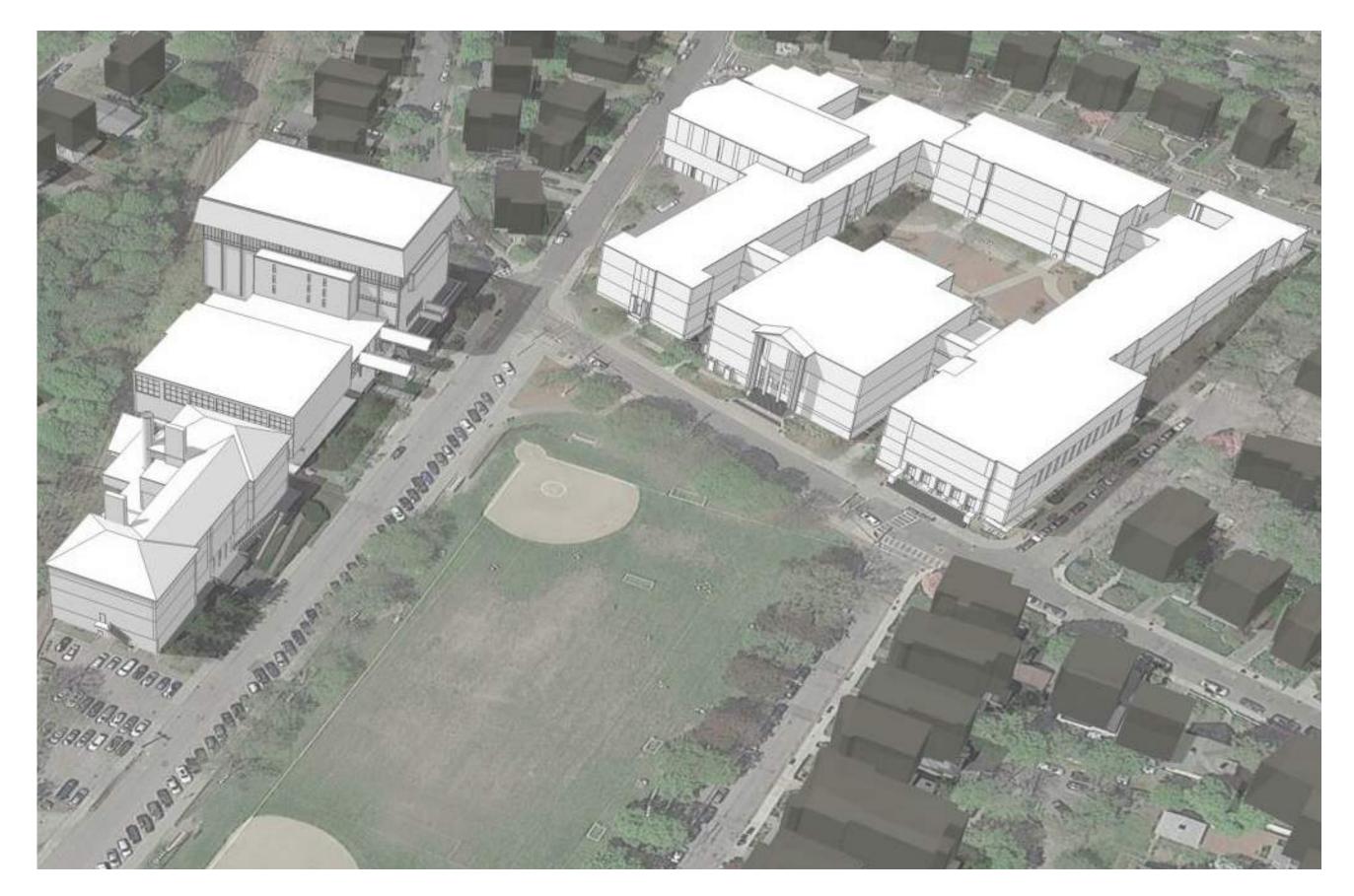
HMFH ARCHITECTS



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



100' HM HMFHARCHITECTS



Existing - Massing Brookline High School Expansion Feasibility Study Brookline, MA

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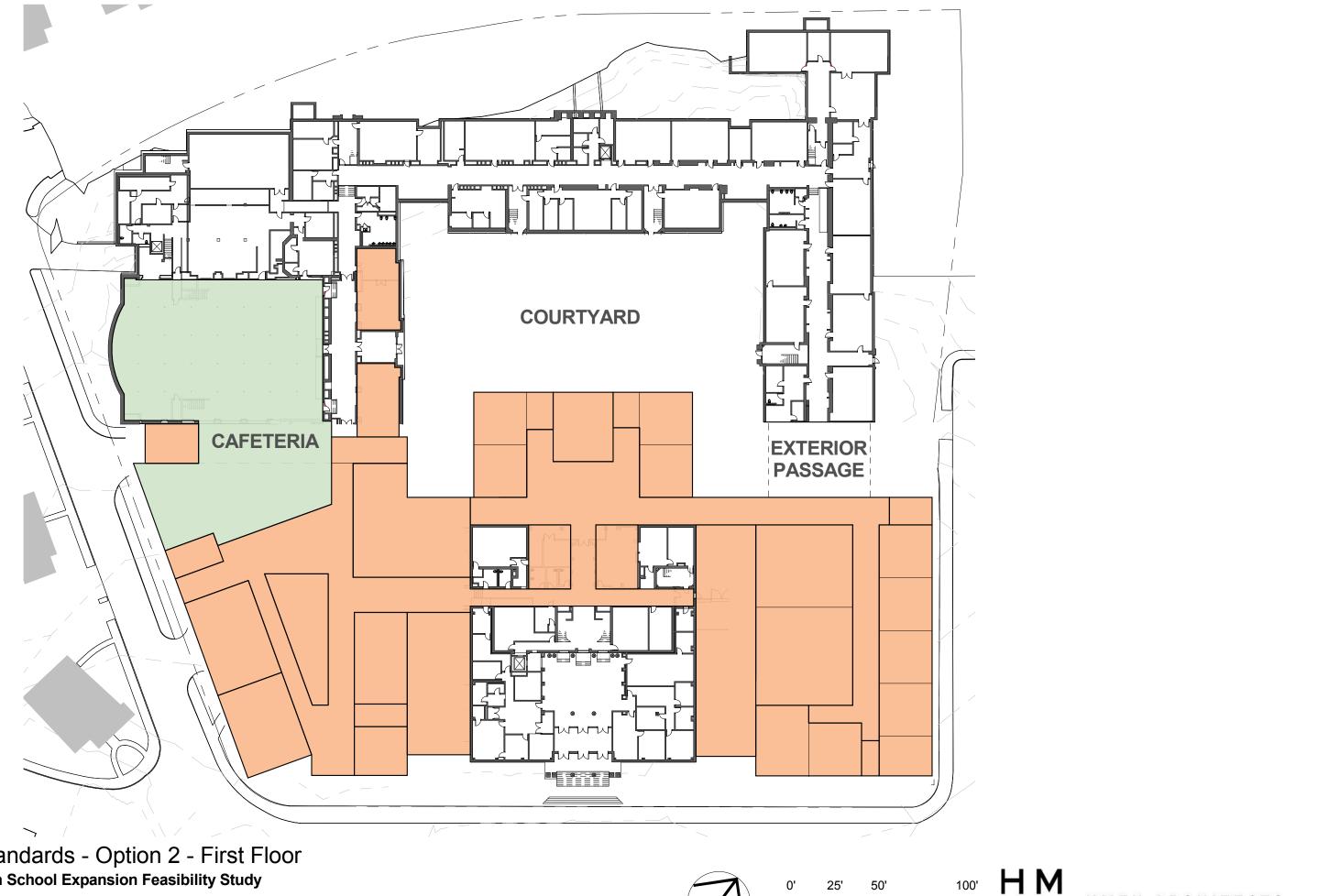
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MA HS Standards - Option 2 - Massing Brookline High School Expansion Feasibility Study Brookline, MA

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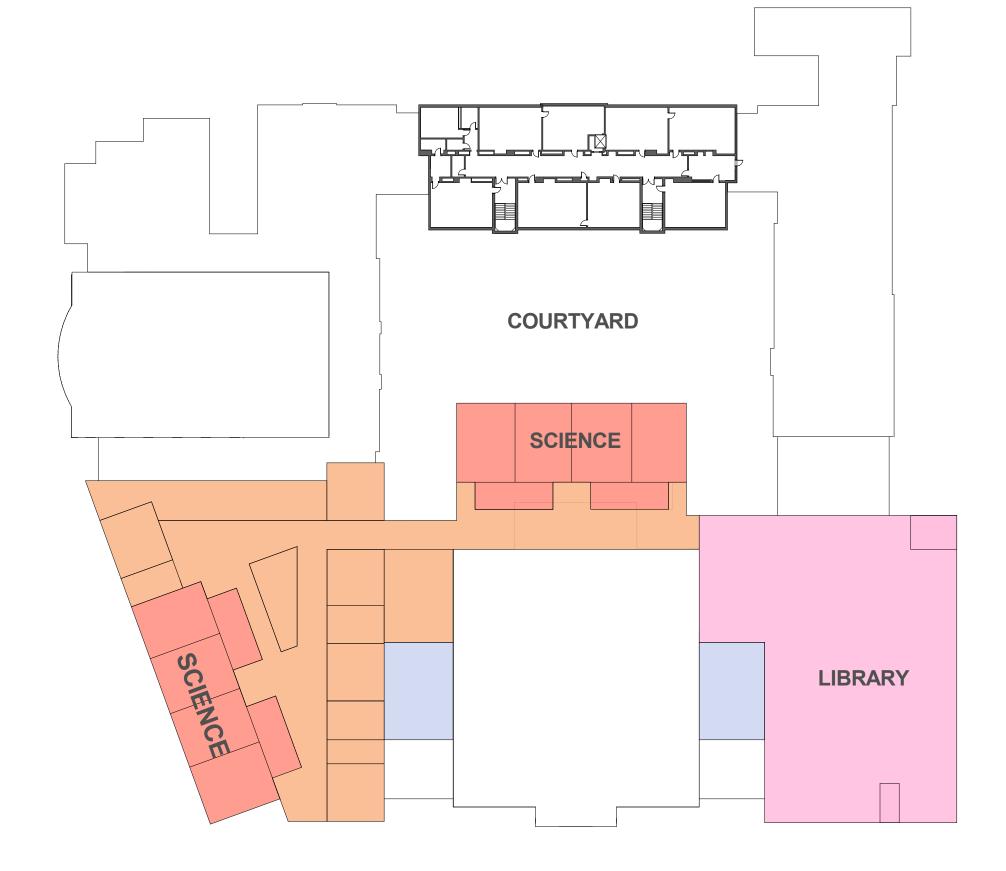
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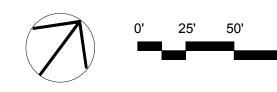
MA HS Standards - Option 2 - First Floor Brookline High School Expansion Feasibility Study Brookline, MA



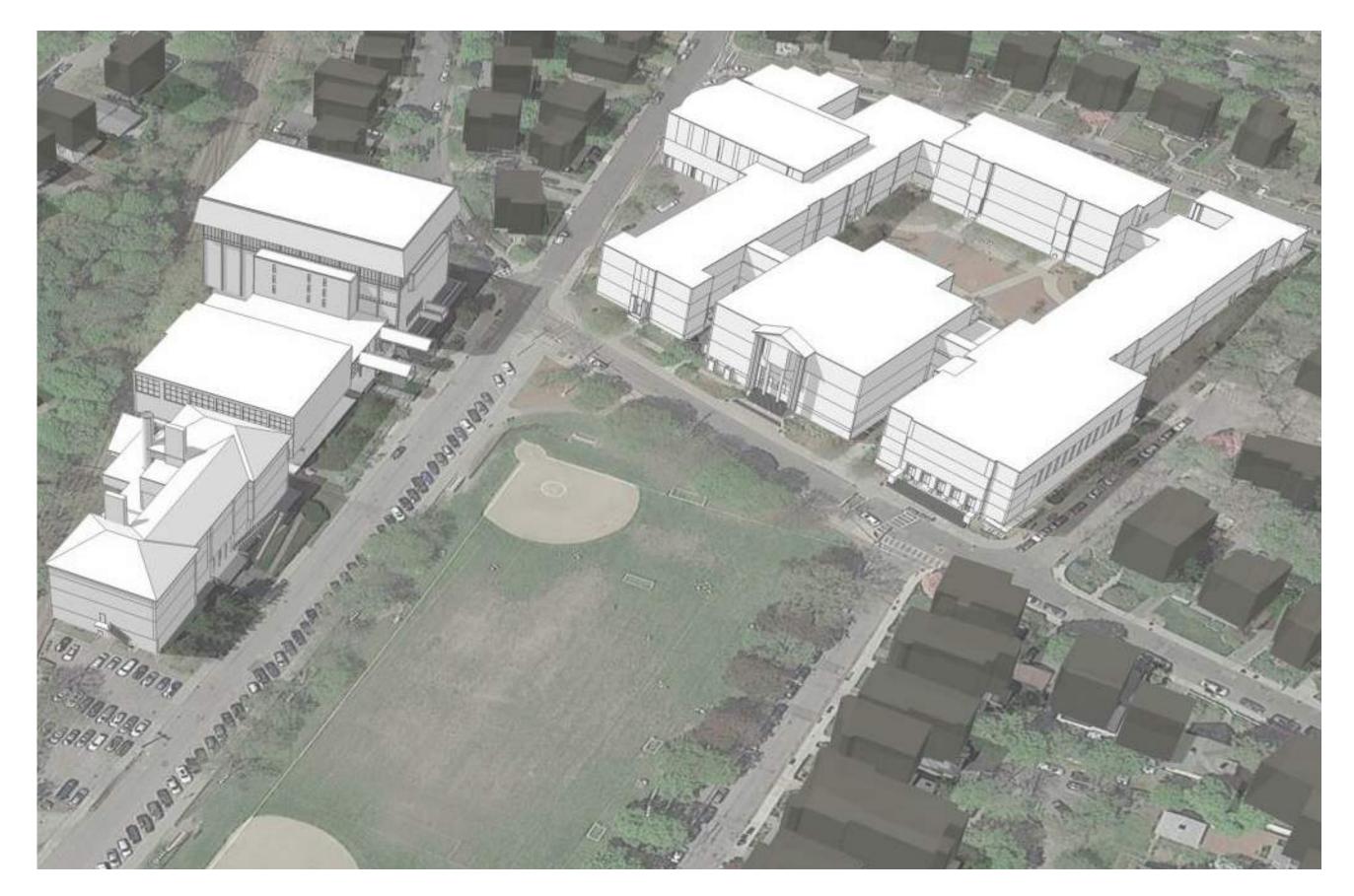
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MA HS Standards - Option 2 - Fourth Floor Brookline High School Expansion Feasibility Study Brookline, MA



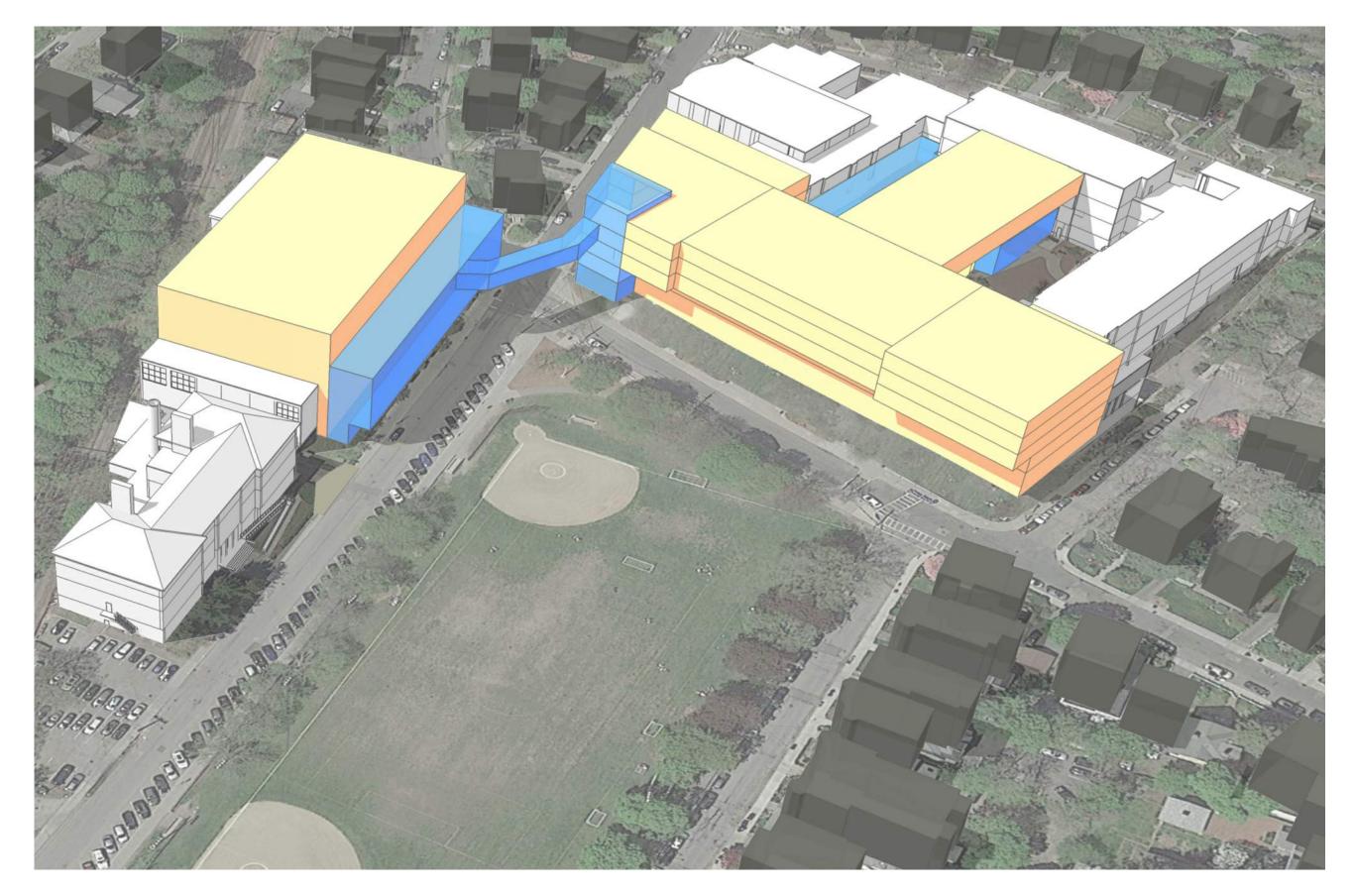
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Existing - Massing Brookline High School Expansion Feasibility Study Brookline, MA

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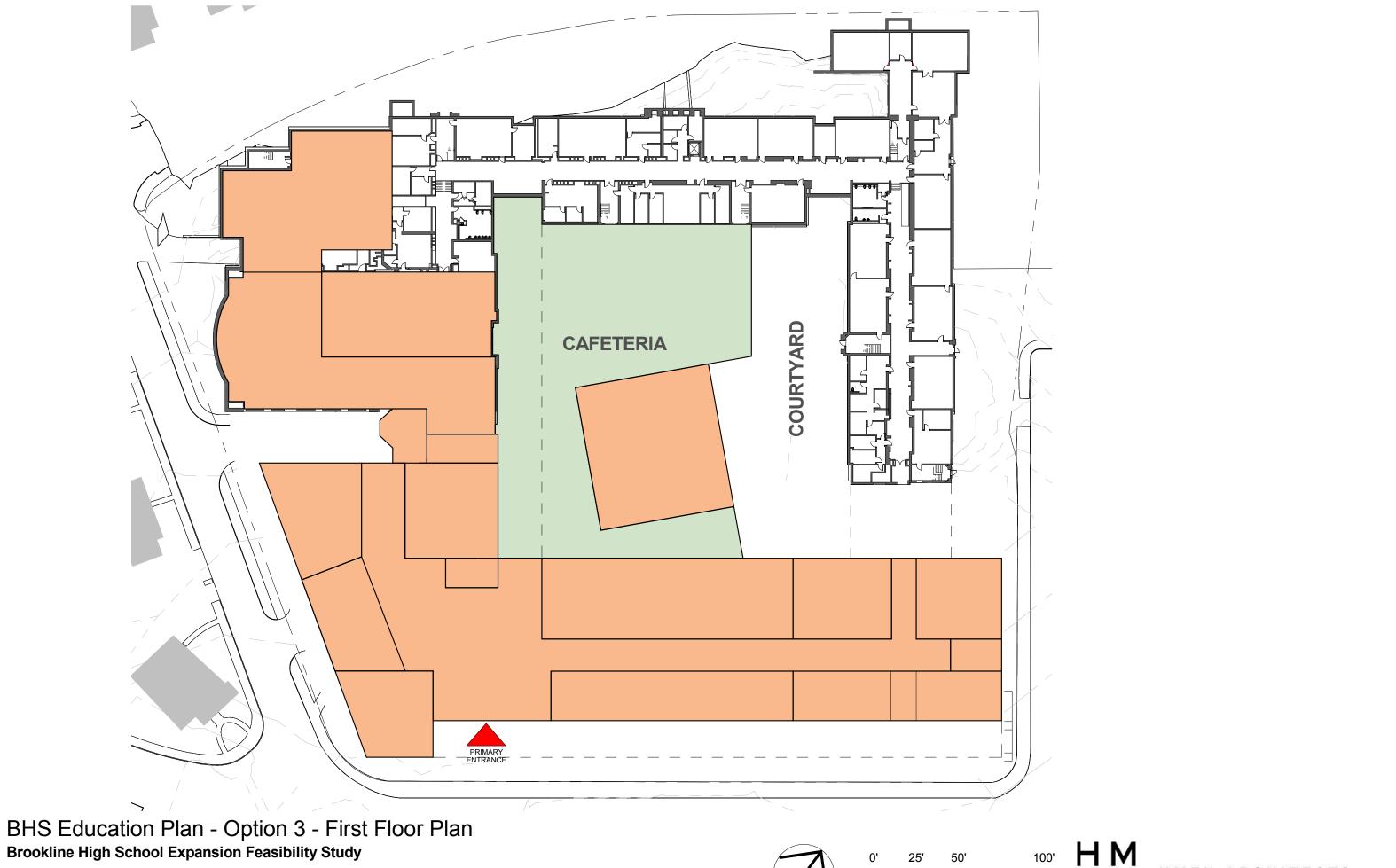
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BHS Education Plan - Option 3 - Massing Brookline High School Expansion Feasibility Study Brookline, MA

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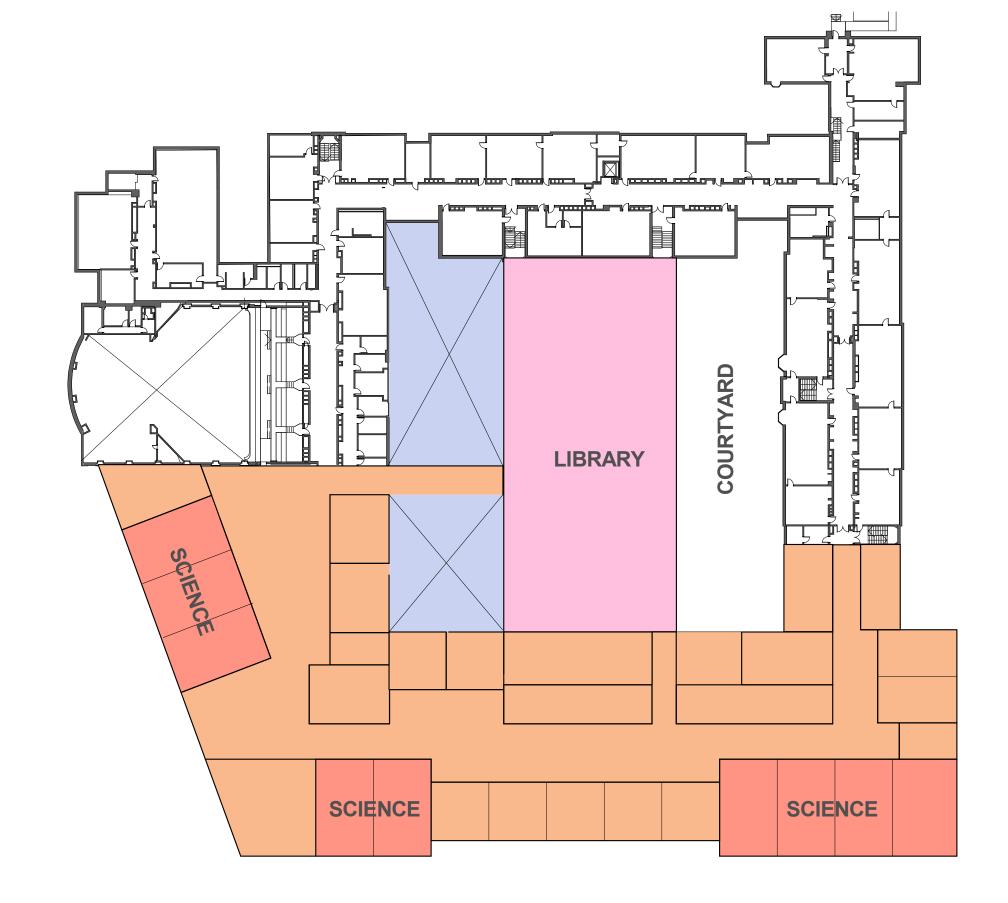
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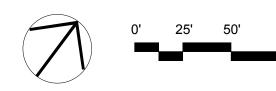
Brookline High School Expansion Feasibility Study Brookline, MA



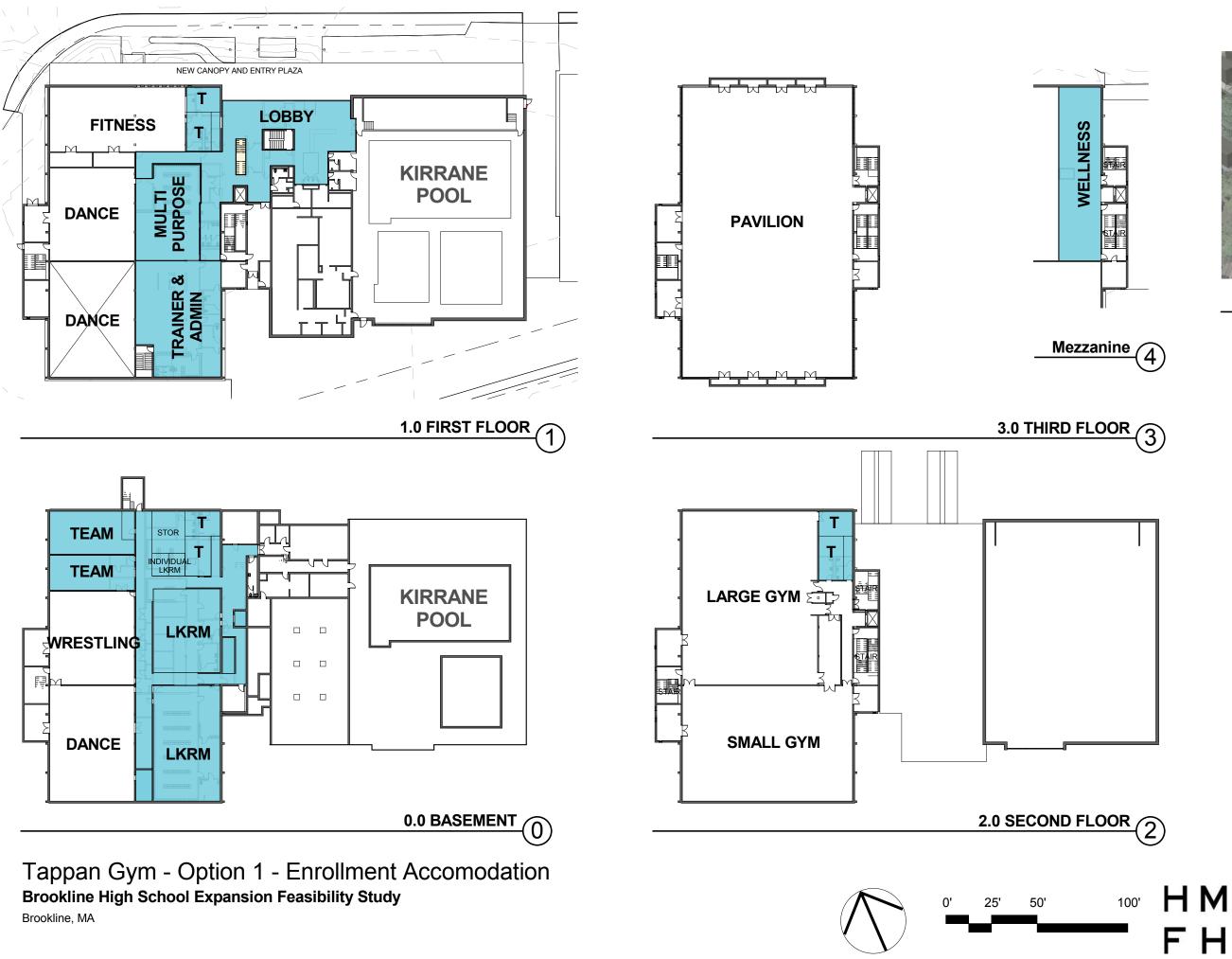
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BHS Education Plan - Option 3 - Third Floor Plan Brookline High School Expansion Feasibility Study Brookline, MA



100' HM HMFHARCHITECTS





Massing View

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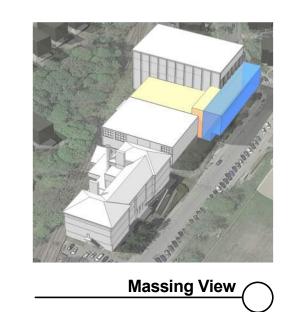


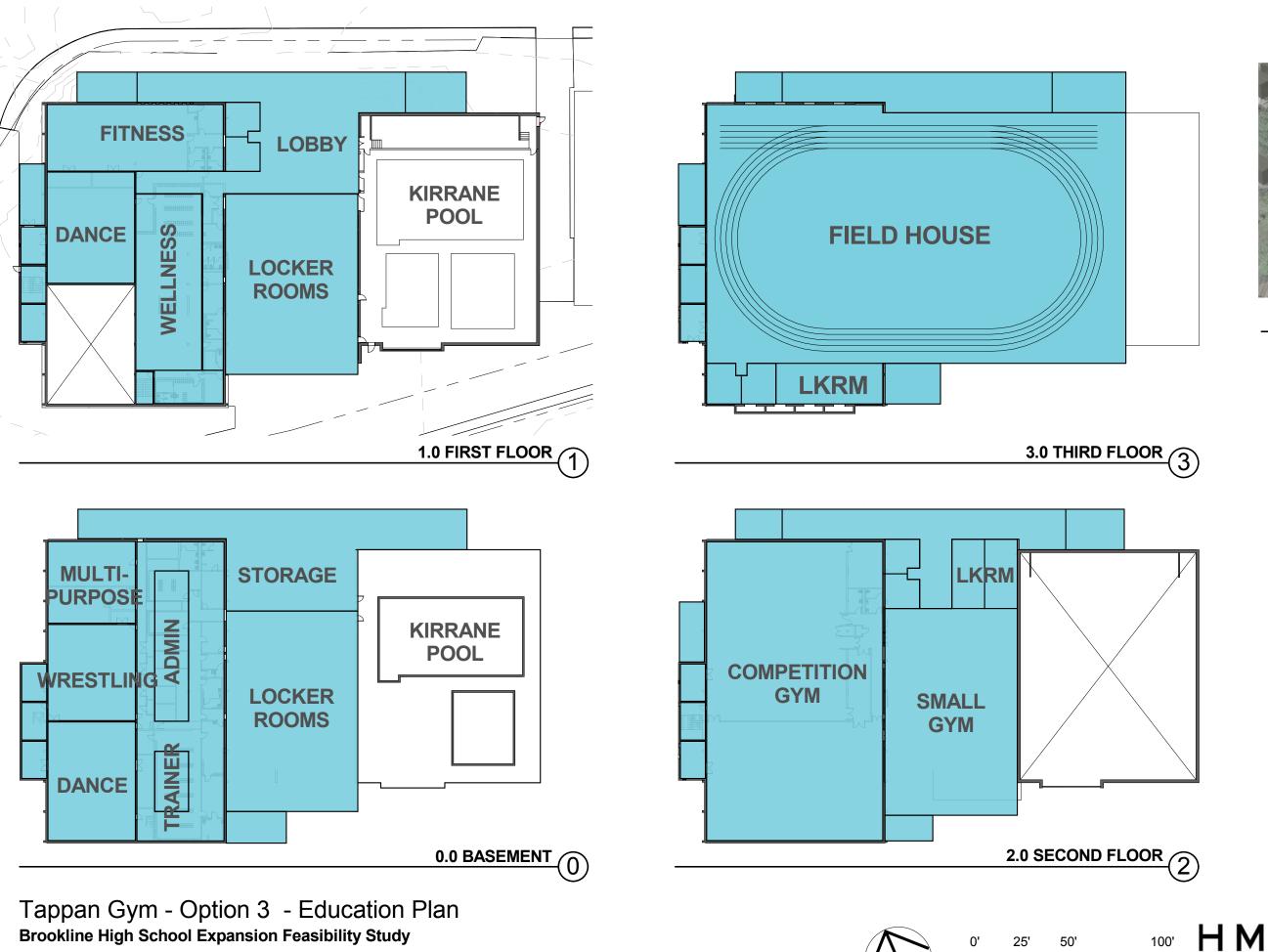
Brookline High School Expansion Feasibility Study Brookline, MA





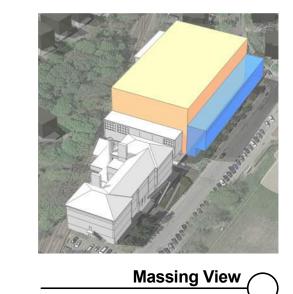
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Brookline High School Expansion Feasibility Study Brookline, MA

25' 50' 0'



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Brookline High School Expansion Feasibility Study

Design Alternate Comparisons

Improving Classroom Spaces

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

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OPTION 3 Education Plan

69 Classrooms

98 Classrooms

0

46 Classrooms

52 Classrooms

24 Classrooms/Labs

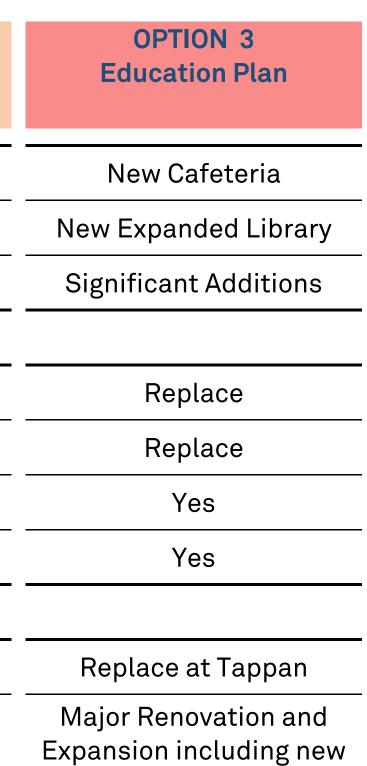
Brookline High School Expansion Feasibility Study

Design Alternate Comparisons

Program Expansion

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

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Field House

Brookline High School Expansion Feasibility Study Design Alternate Comparisons

Area Expansion

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

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OPTION 3 Education Plan

181,000 sq ft

298,000 sq ft

479,000 sq ft

60,000 sq ft

64,000 sq ft

124,000 sq ft

603,000 sq ft

Brookline High School Expansion Feasibility Study

Order of Magnitude Cost Comparison

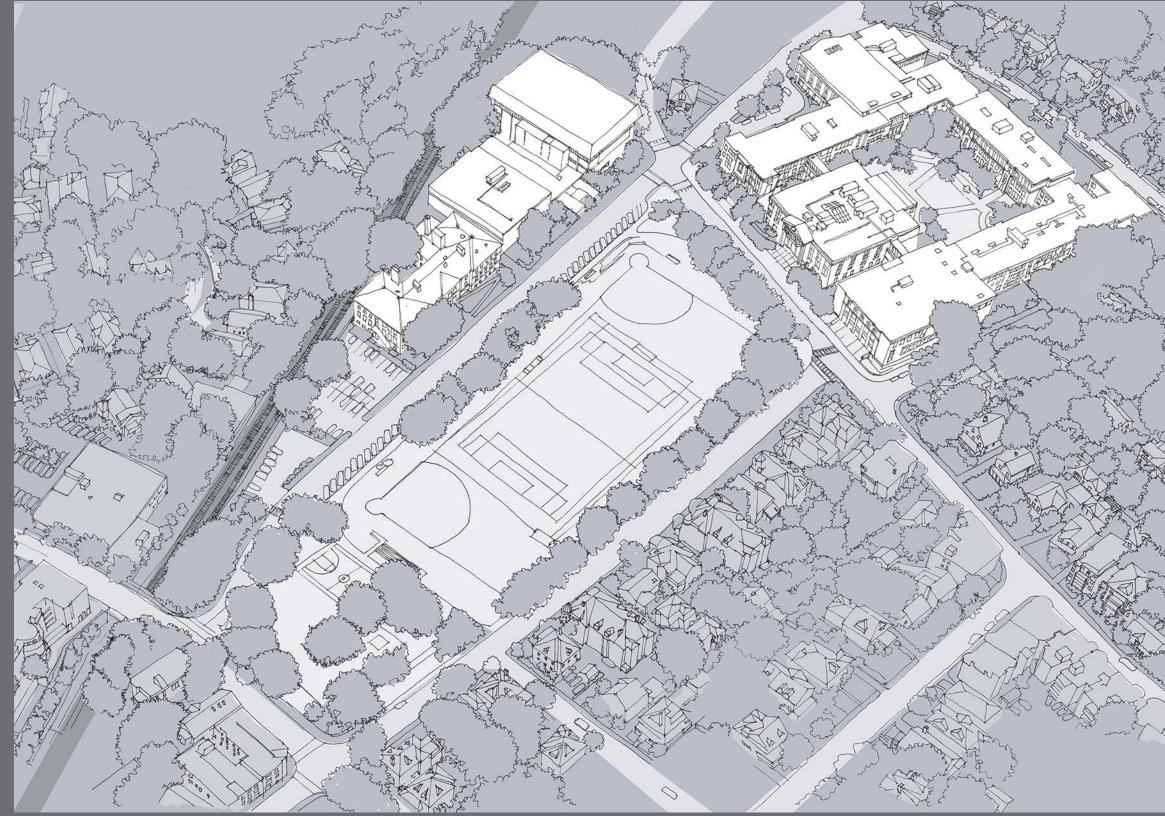
Brookline High School Options	No. of Students	-		Project Cost	C	ost/Student
OPTION 1 Enrollment Accommodation	2,700	range	\$ \$	168,000,000 184,000,000	\$ \$	62,222 68,148
with Optional Projects Minimal Tappan Renovation Parking Cypress Field Renovation			\$	245,000,000	\$	90,741
OPTION 2 State High School Standards	2,700	range	\$ \$	258,000,000 286,000,000	\$ \$	95,556 105,926
(Tappan Renovation included)						
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

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Brookline High School Expansion Feasibility Study Order of Magnitude Cost Comparison

BHS OPTIONS	No. of Students		Project Cost	С	ost/Student
	2,700 range	e \$	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

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HMFH ARCHITECTS

op Allen Drive, Cambridge, MA 02139 617 492 2200 hmfh.com

Q & A



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

BHS Expansion Building Committee



	George Cole Co-Chair - Building Commission		Daniel Bennett	Building Commissioner		
	Nancy Heller Co-Chair - Se	electmen	Andrew Bott	Superintendent of Schools		
	Susan Wolf Ditkoff	Co-Chair - School Committee	Mary Ellen Dunn	Deputy Superintendent for		
	Nancy O'Connor Park & Recreation Commission			Administration and Finance		
Ian Roffman School Parent Community Rep		Nicole Gittens	Deputy Superintendent for Teaching and Learning			
	Jordan Meranus	School Parent Community Rep	Anthony Meyer	BHS Headmaster		
	Matthew Oudens	Greater BHS Community Rep	Jenee Ramos	BHS Dean of Faculty		
	Bobbie Knable	Greater BHS Community Rep	Nicholas Gerszten	BHS Student Representative		
	Mel Kleckner	Town Administrator	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

B

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



- 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