

Brookline High School Building Committee

Brookline High School Campus Expansion Update

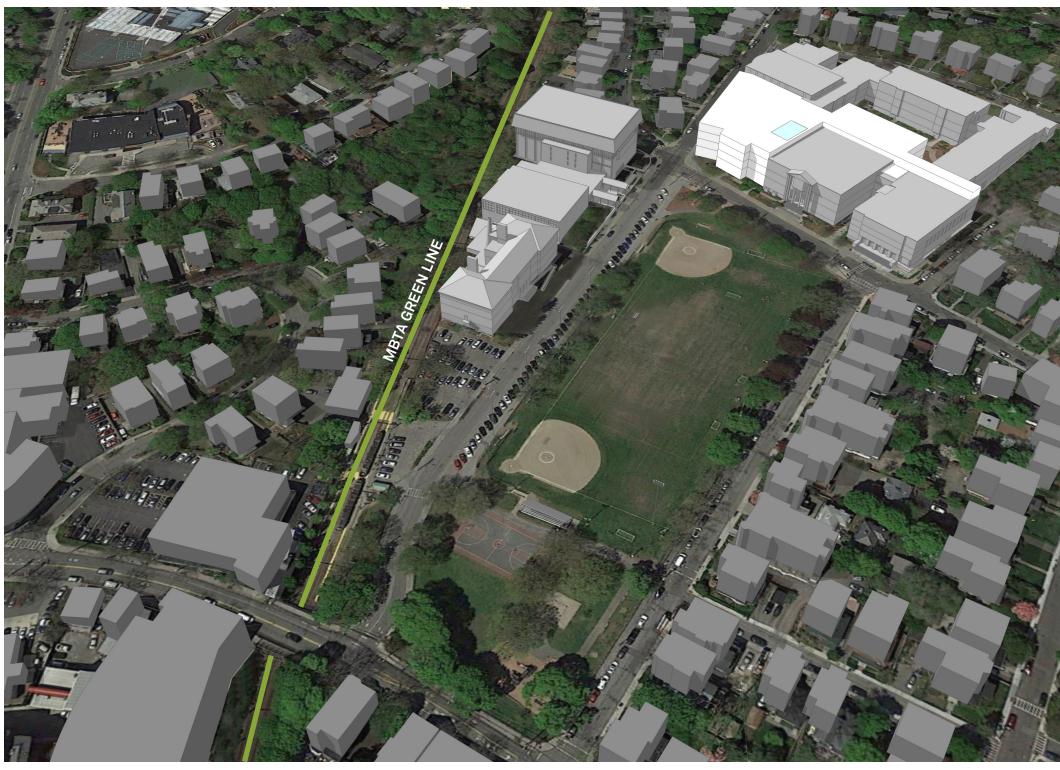
Feasibility Study
APRIL 26, 2017

Existing



Massing

Enrollment Accommodation

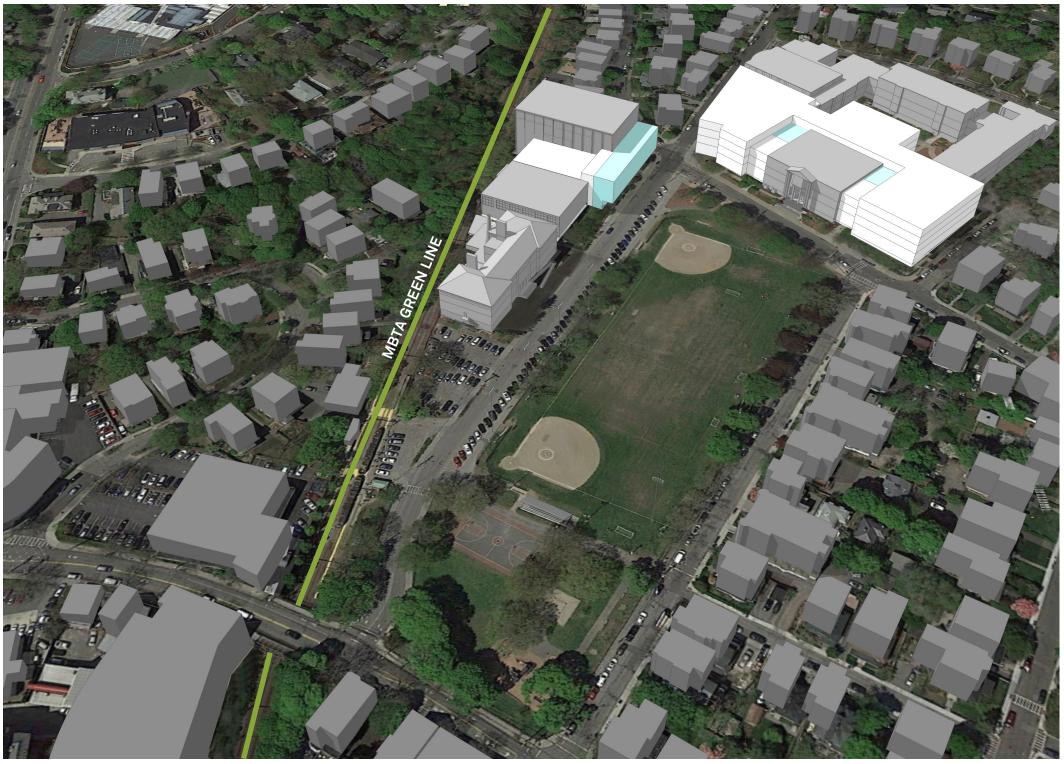


BHS Existing to Remain **294,310 sf**

New Construction at BHS **165,000 sf**

Massing

MA State Standard with Competition Gym at Tappan Gym



BHS Existing to Remain **242,280** sf

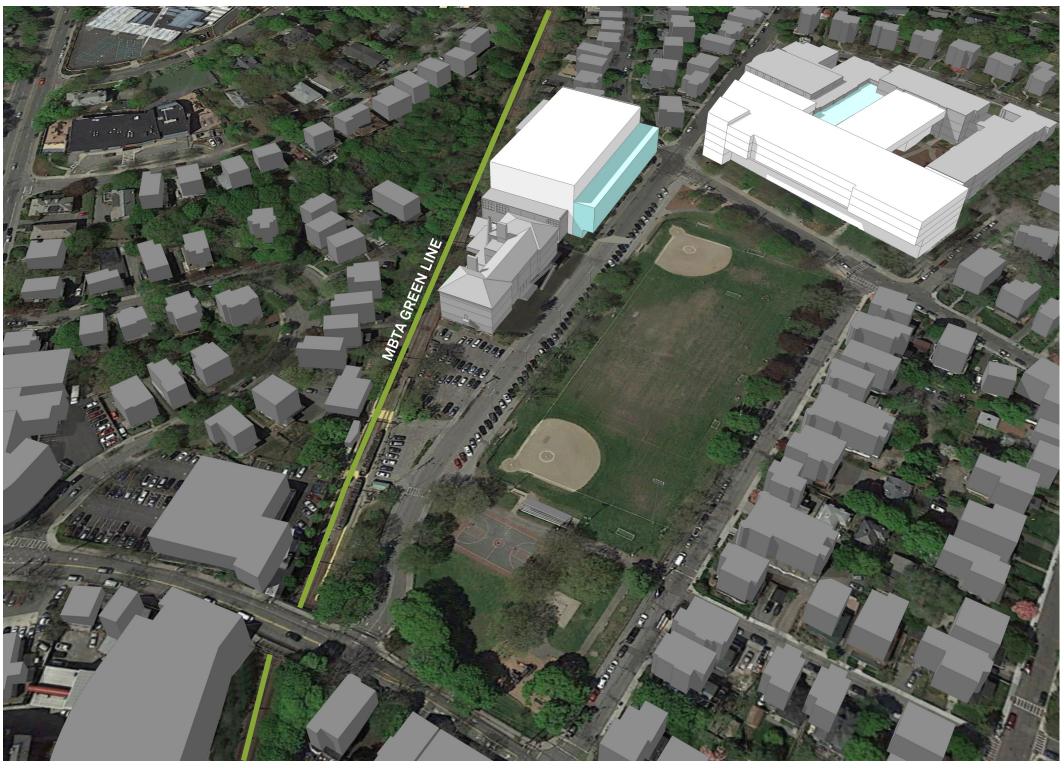
New Construction at BHS **228,690** sf

plus

2. Tappan Gym Moderate Renovation with Competition Gym and Practice Gym Addition

Massing

BHS Educational Plan and with Field House Addition to Tappan Gym



BHS Existing to Remain 181,050 sf

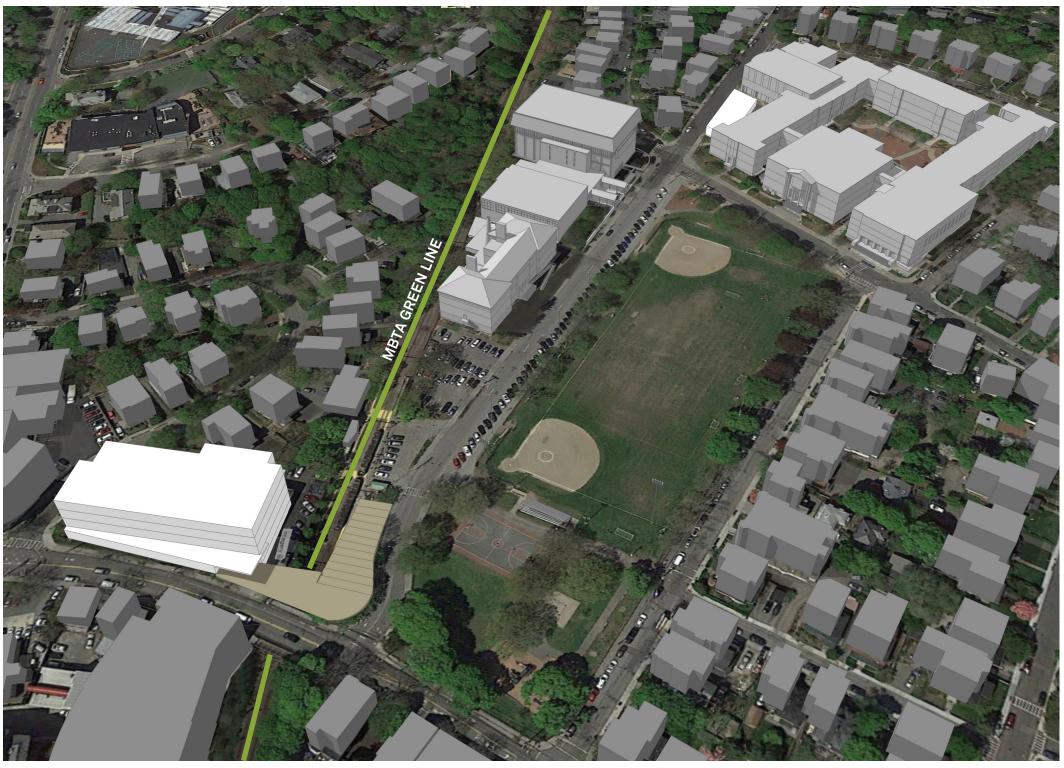
New Construction at BHS **298,130 sf**

plus 3. Tappan Gym Field House Addition

Massing

OPTION 4A

New Cypress Building with BHS-Greenough Renovate Existing Science & New 5-Classroom Addition



Renovate Existing BHS Science **35,500 sf**

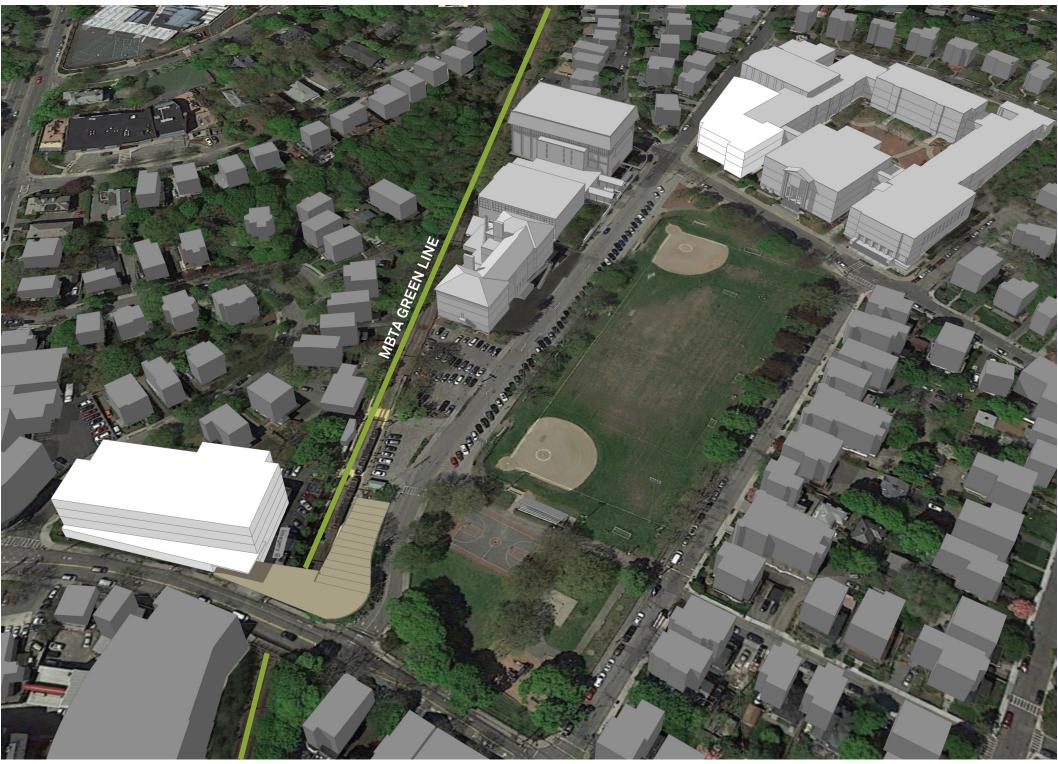
New Construction at BHS **7,500 sf**

New Construction at Cypress Building 109,810 sf

Massing

OPTION 4B

New Cypress Building with BHS-Greenough New Science at Roberts Wing & Renovate 3rd Floor as Core Academics



Renovate Existing BHS Science into Classrooms **36,500 sf**

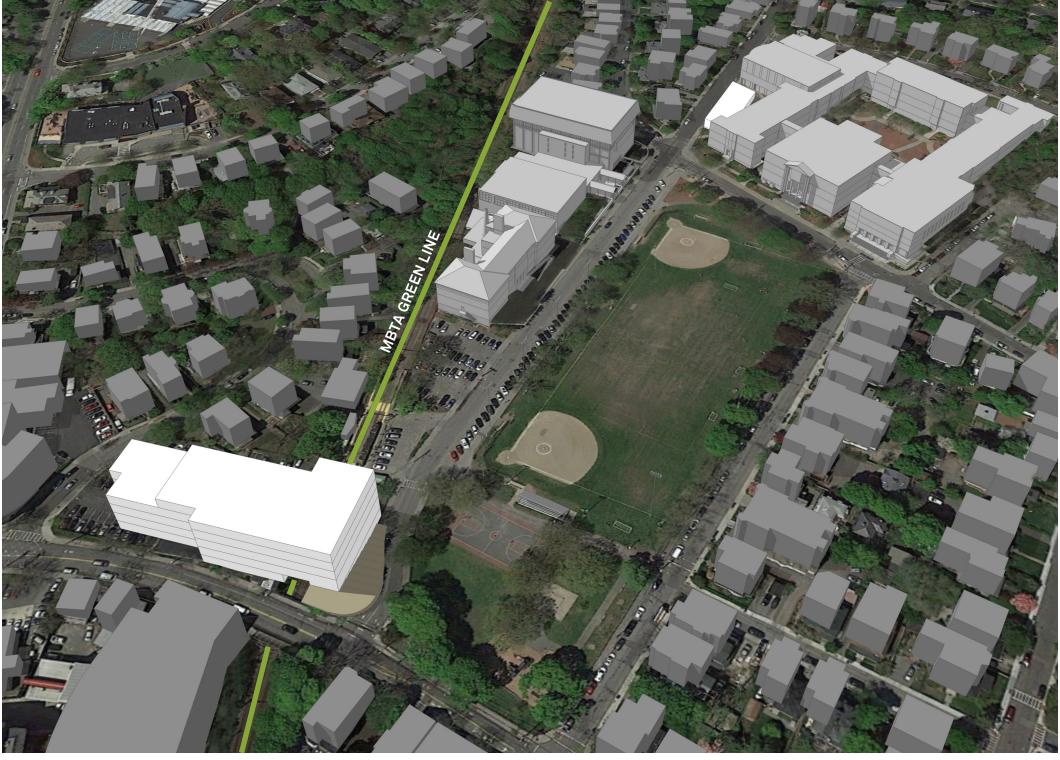
New Construction at BHS **44,100 sf**

New Construction at Cypress Building 109,810 sf

Massing

OPTION 4C

New Cypress Building over the MBTA with BHS-Greenough Renovate Existing Science & New 5-Classroom Addition



Renovate Existing BHS Science 35,500 sf

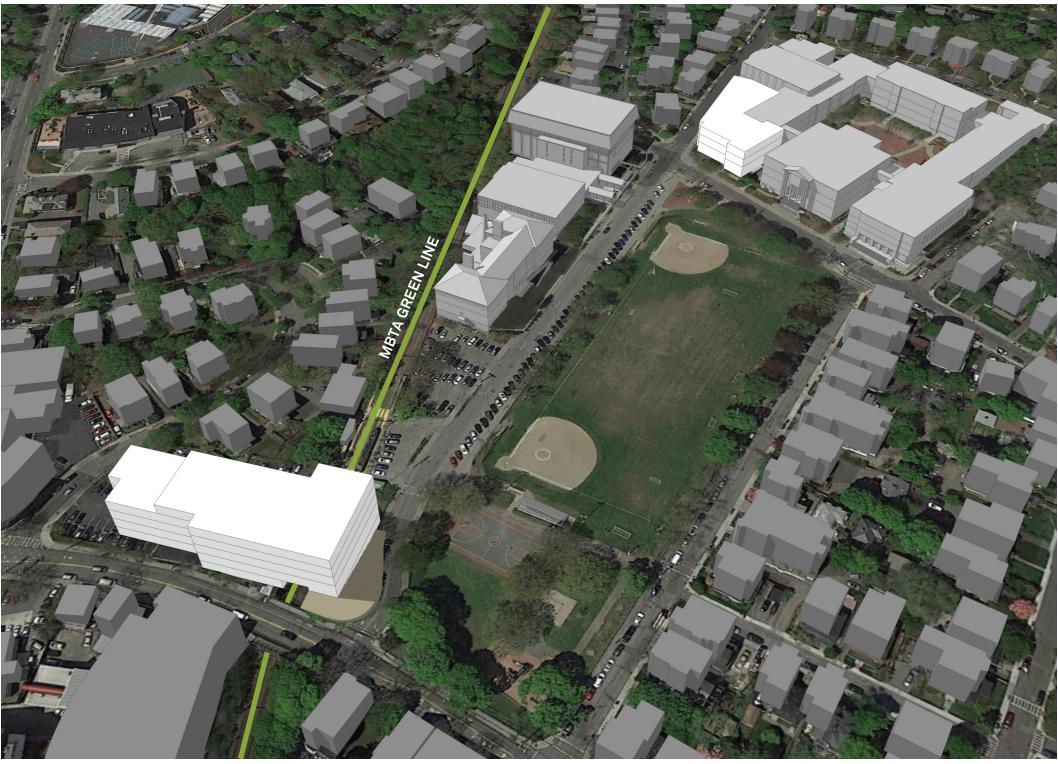
New Construction at BHS **7,500 sf**

New Construction at Cypress Building 112,700 sf

Massing

OPTION 4D

New Cypress Building over the MBTA with BHS-Greenough New Science at Roberts Wing & Renovate 3rd Floor as Core Academics



Renovate Existing Science into Classrooms **36,500 sf**

New Construction at BHS **50,400 sf**

New Construction at Cypress Building 112,700 sf

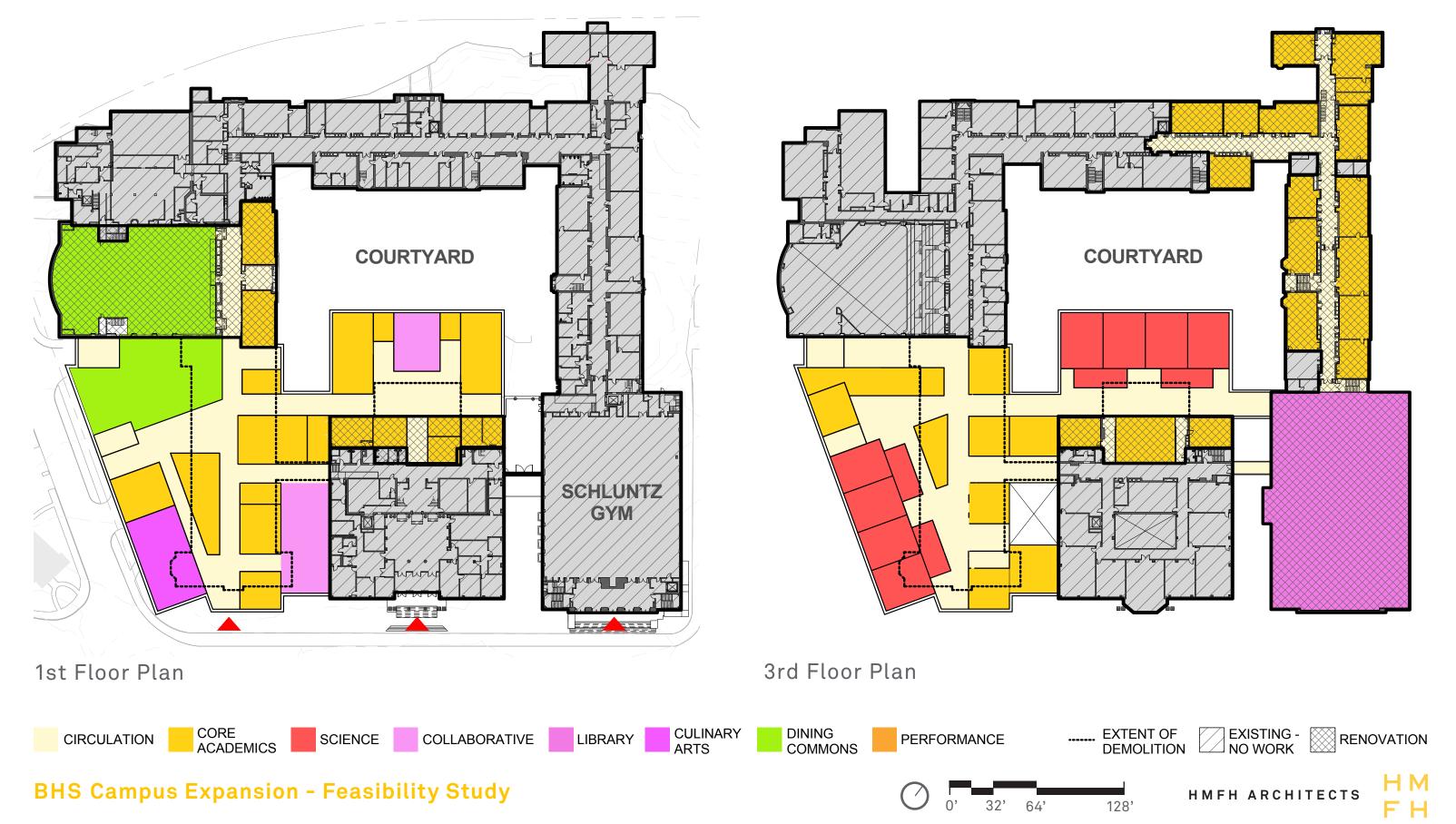
Massing

Enrollment Accommodation

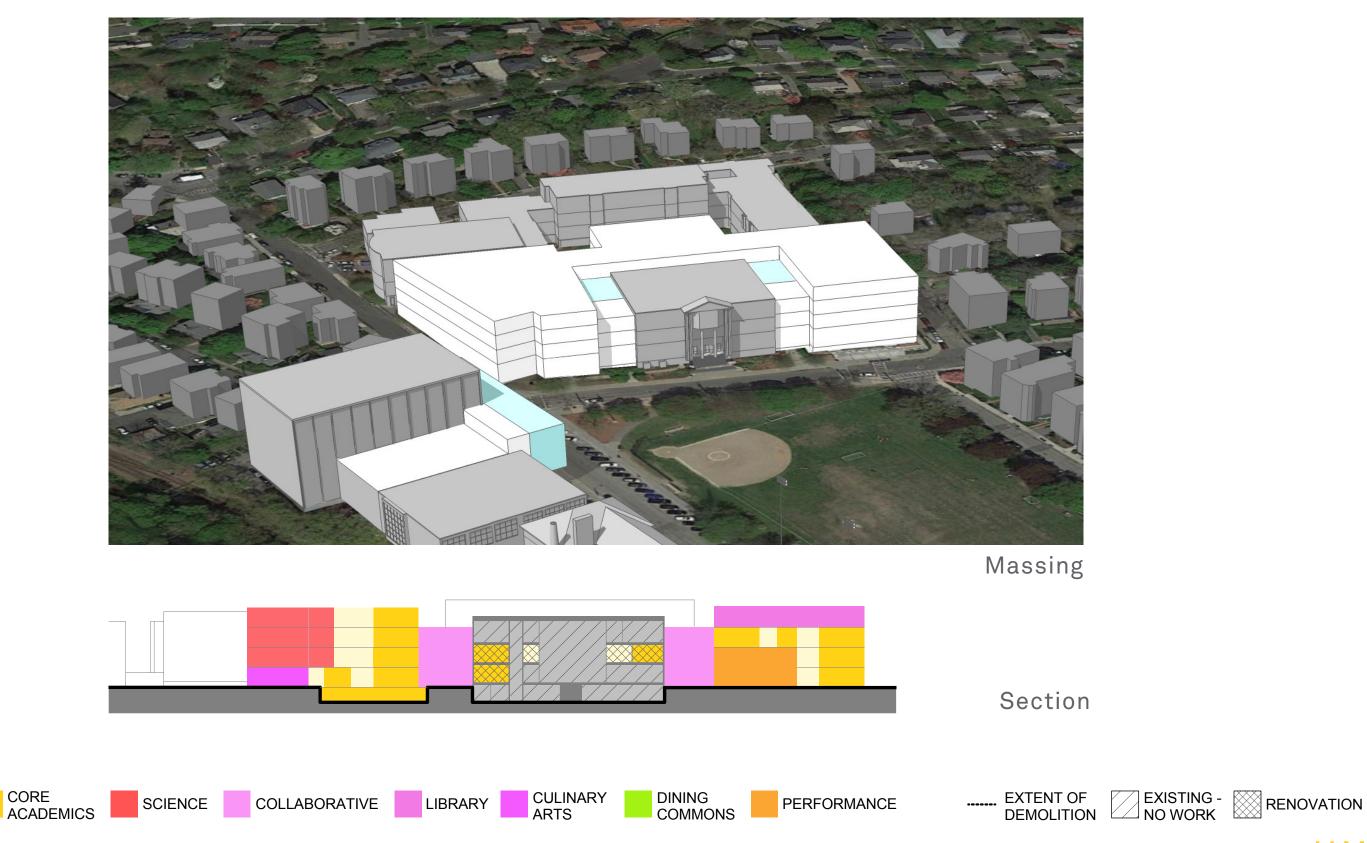


Section

Enrollment Accommodation

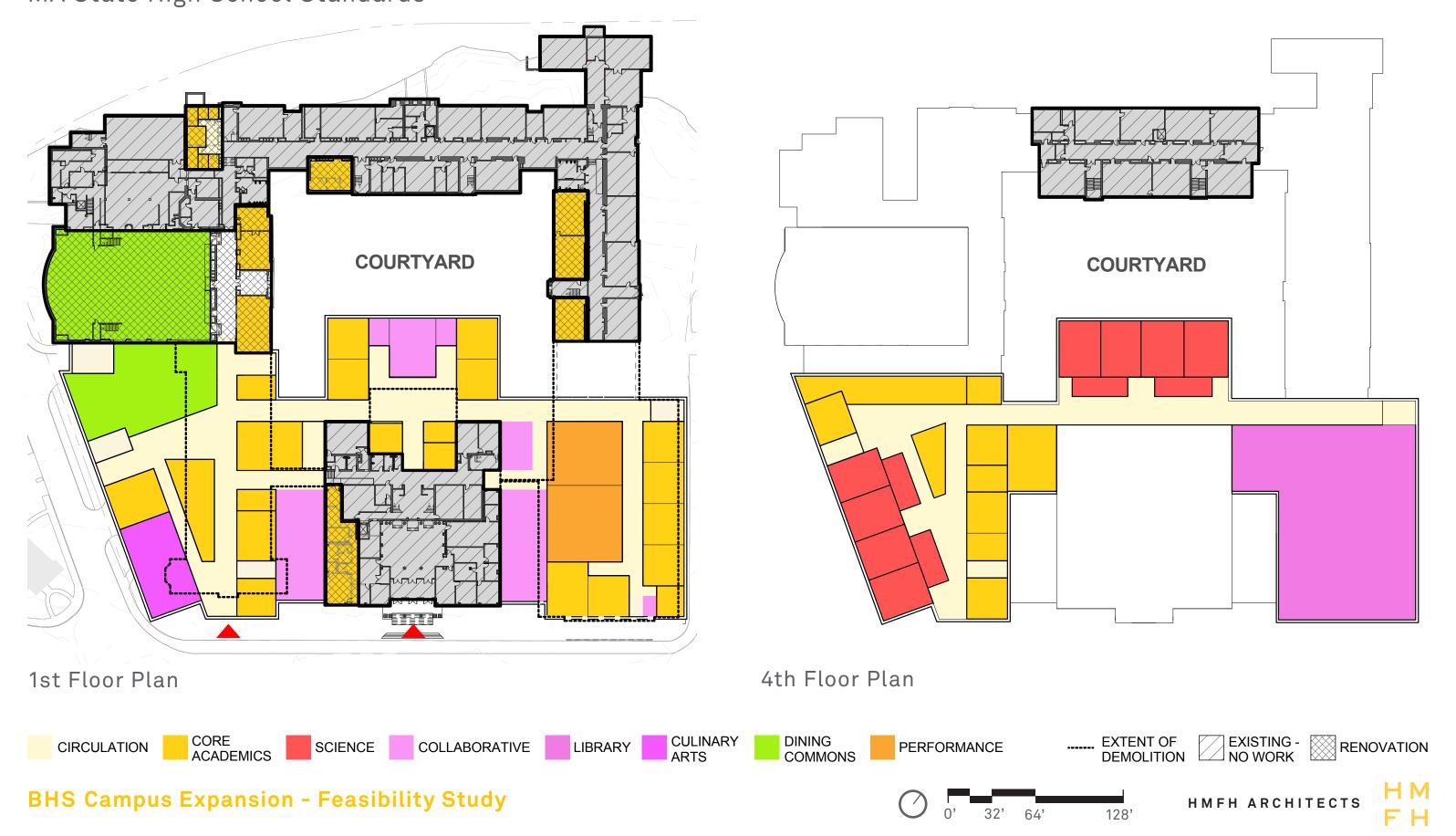


MA State High School Standards

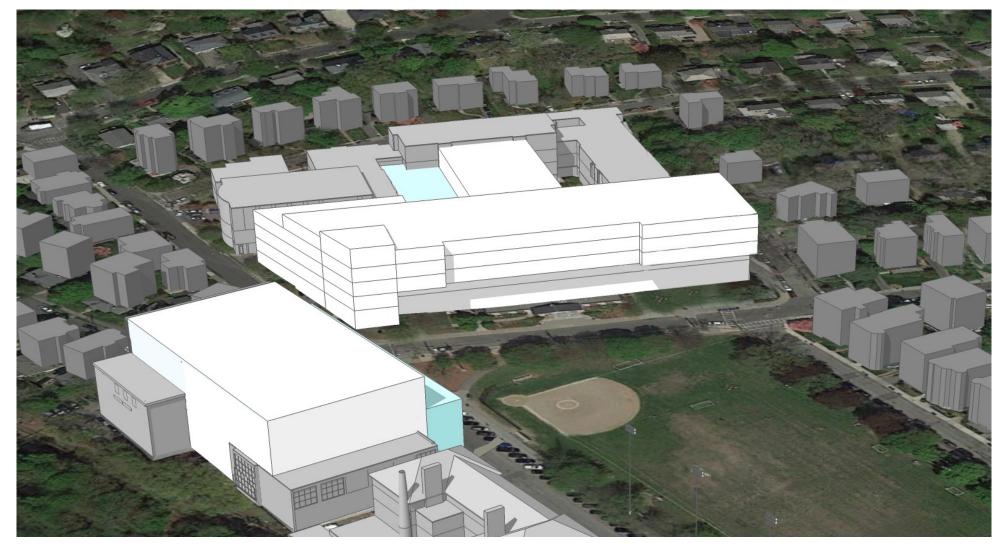


CIRCULATION

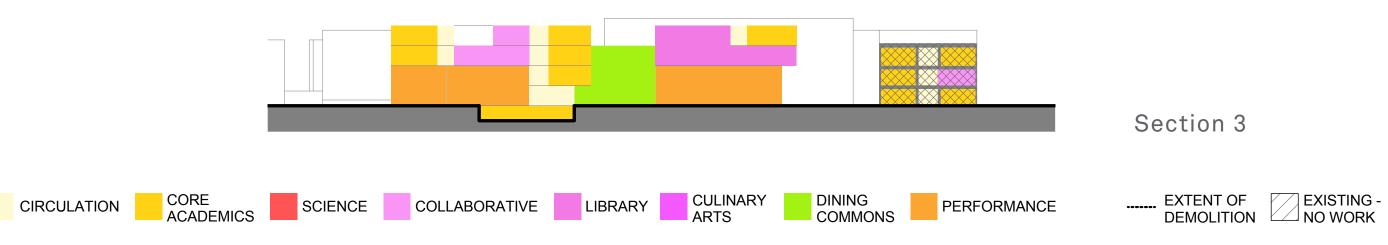
OPTION 2
MA State High School Standards



Brookline High School Education Plan

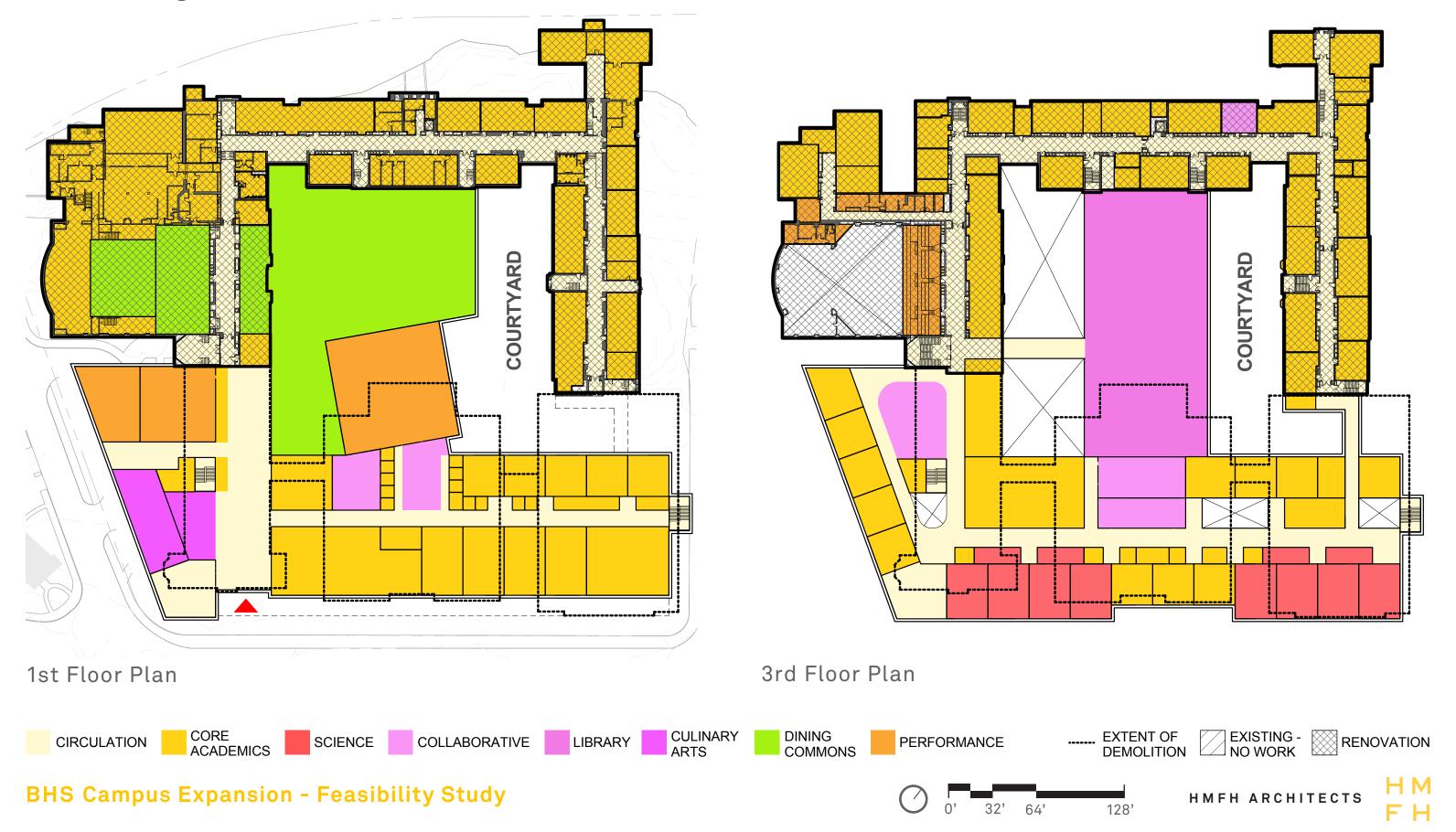


Massing 3 With Tappan Gym



RENOVATION

OPTION 3Brookline High School Education Plan



OPTION 4A & 4B

New Cypress Building



MBTA Section 4A & 4B

DINING COMMONS

PERFORMANCE

CULINARY ARTS

LIBRARY

RENOVATION

EXTENT OF DEMOLITION EXISTING - NO WORK

SCIENCE

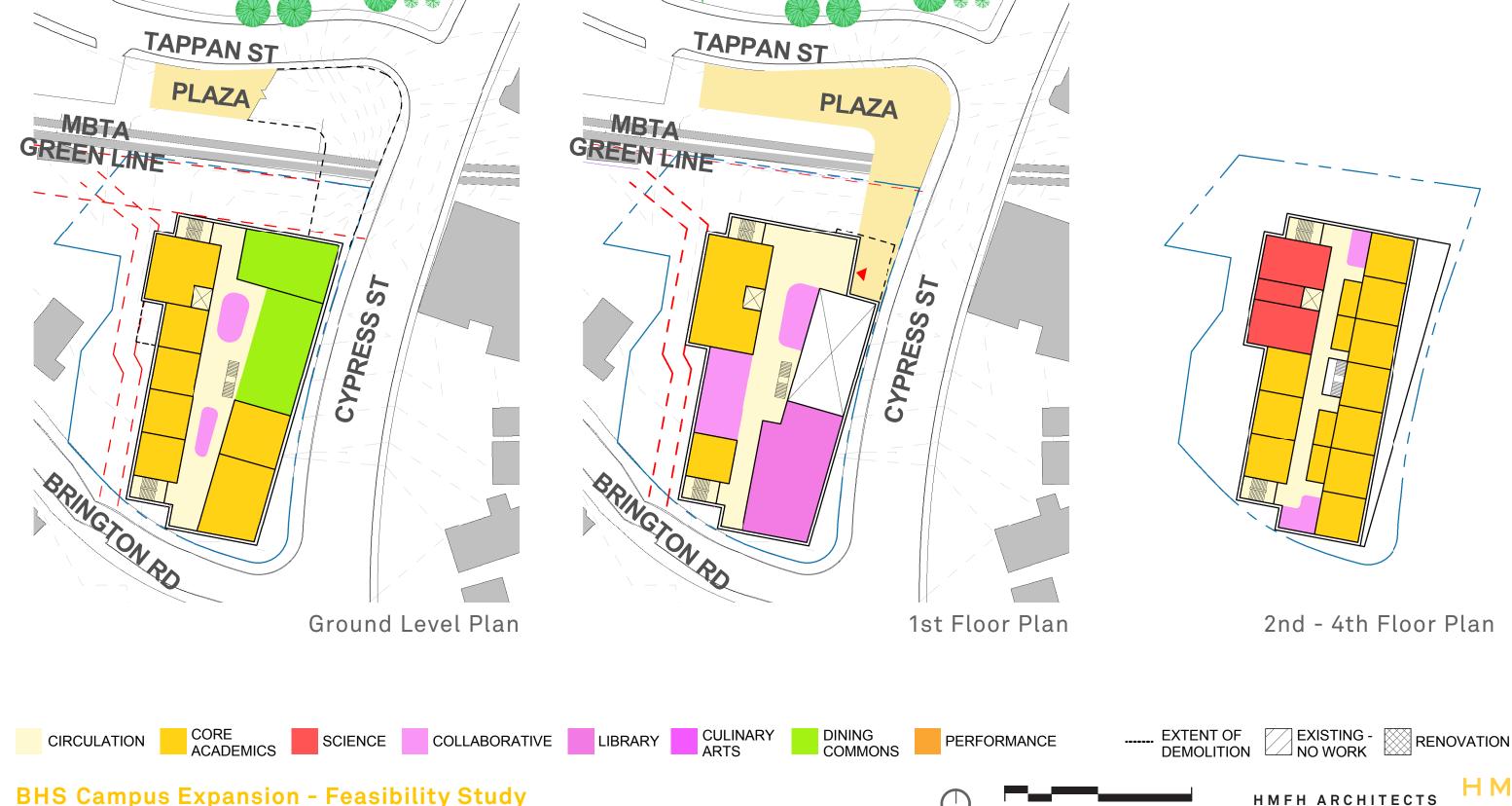
COLLABORATIVE

CORE ACADEMICS

CIRCULATION

OPTION 4A & 4B

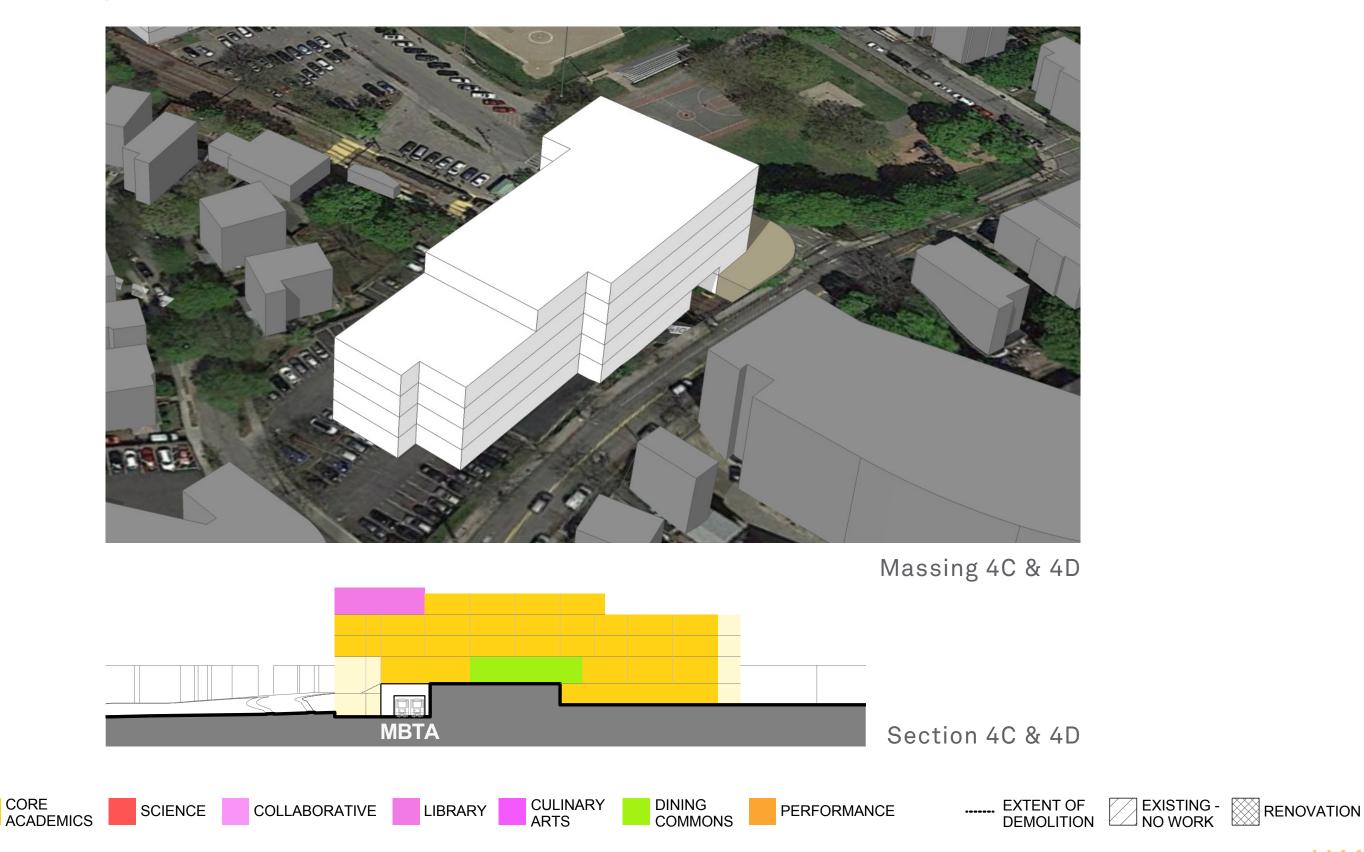
New Cypress Building



128'

OPTION 4C & 4D:

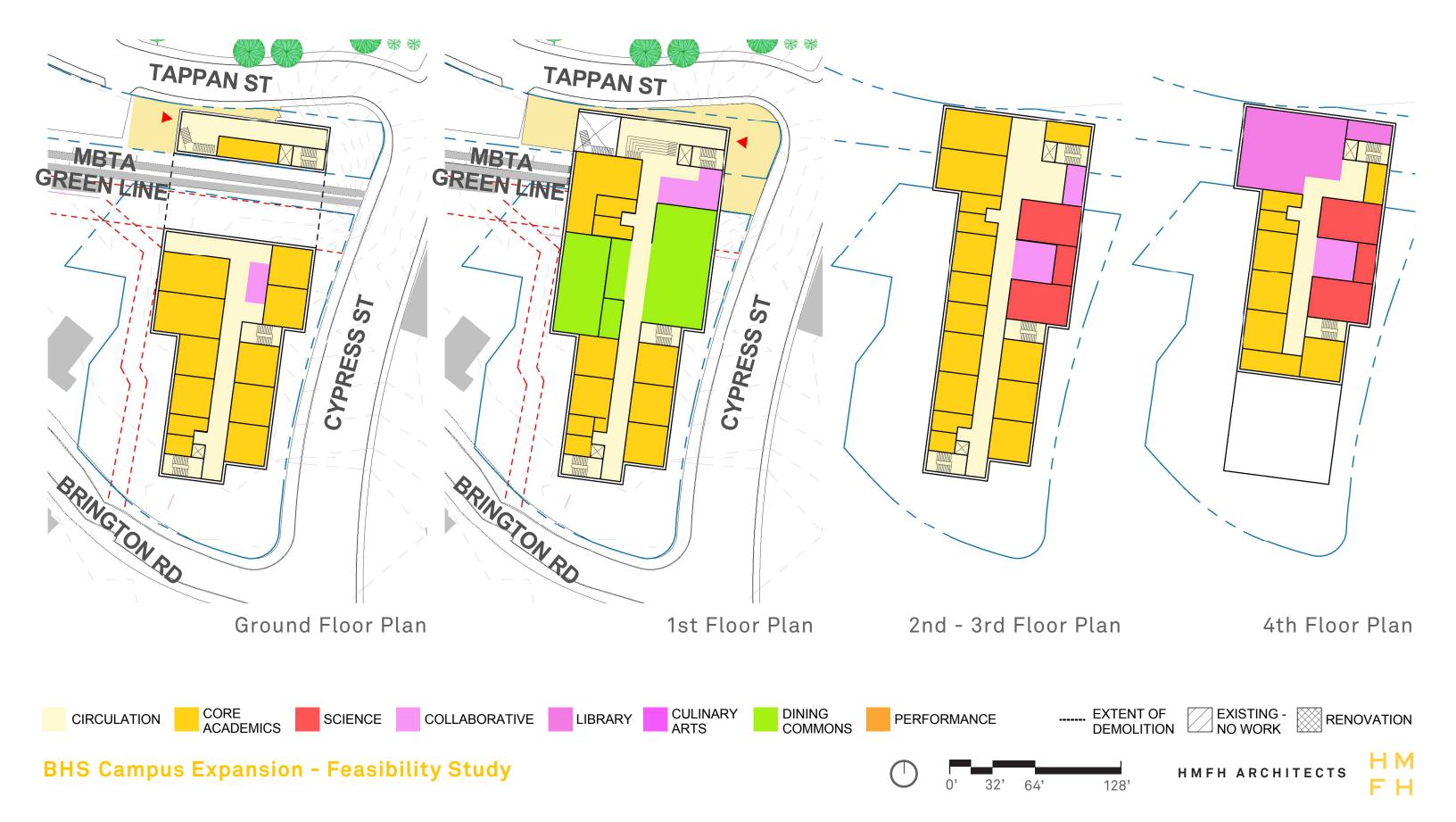
New Cypress Building over the MBTA



CIRCULATION

OPTION 4C & 4D:

New Cypress Building over the MBTA

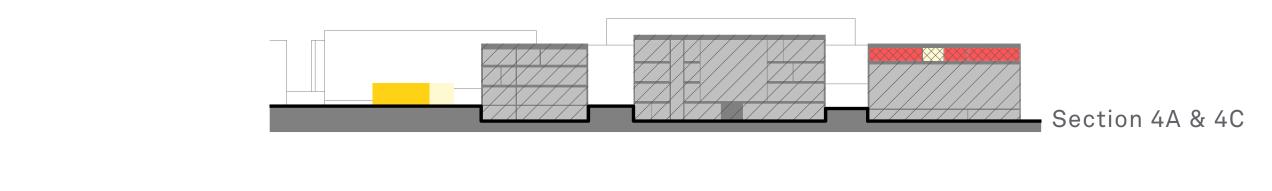


OPTION 4A & 4C

Brookline High School New 5-Classroom Addition & Renovate Existing Science

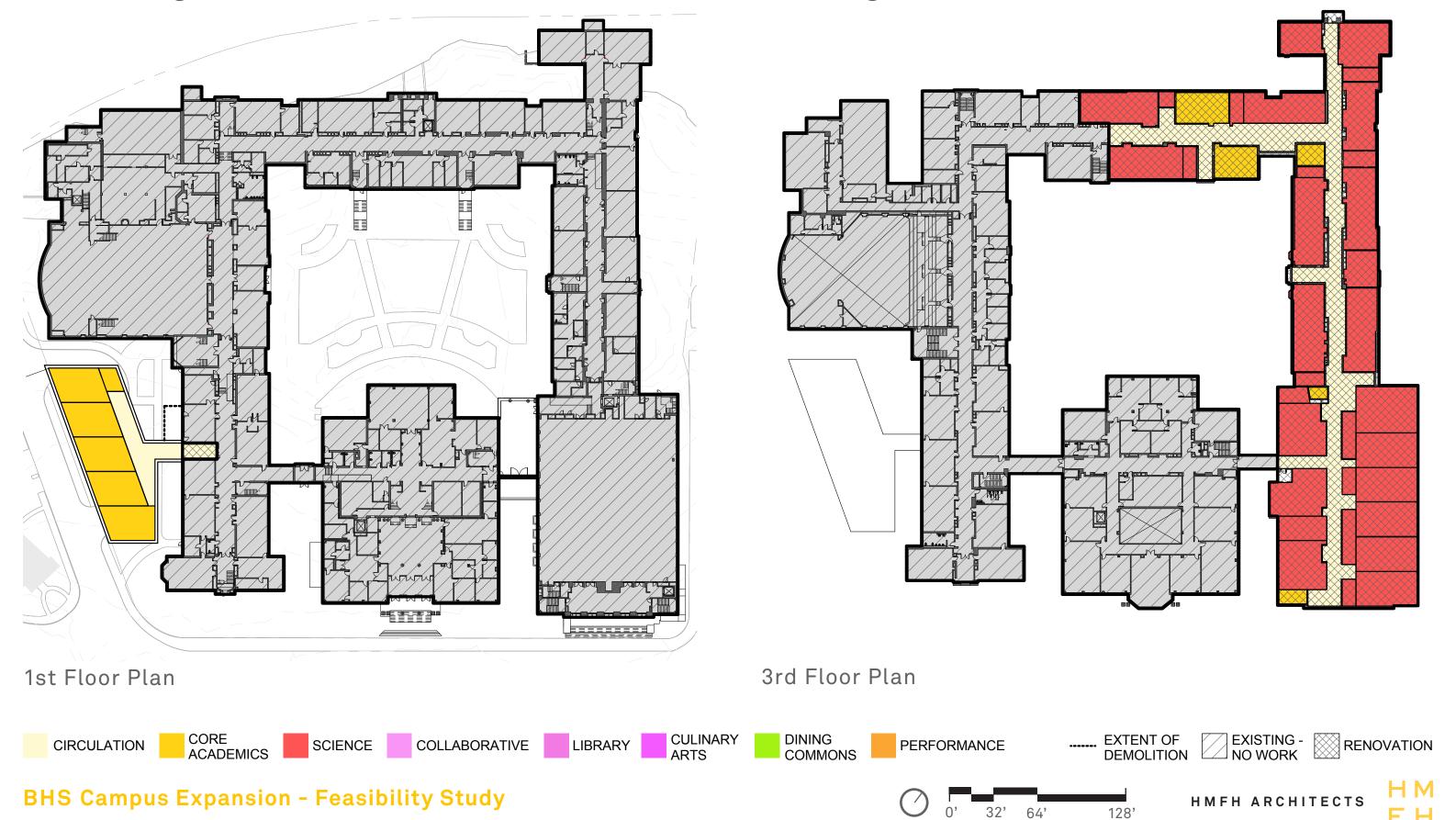


Massing 4A & 4C



OPTION 4A & 4C

Brookline High School New 5-Classroom Addition & Renovate Existing Science

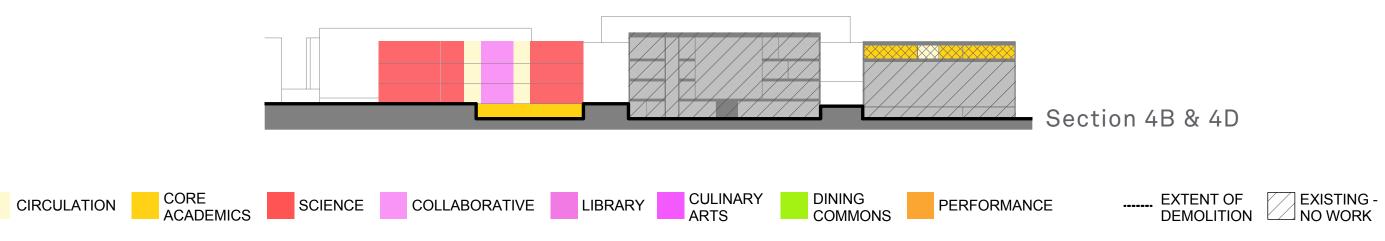


OPTION 4B & 4D

Brookline High School New Science at Roberts Wing & Renovate 3rd Floor as Core Academics



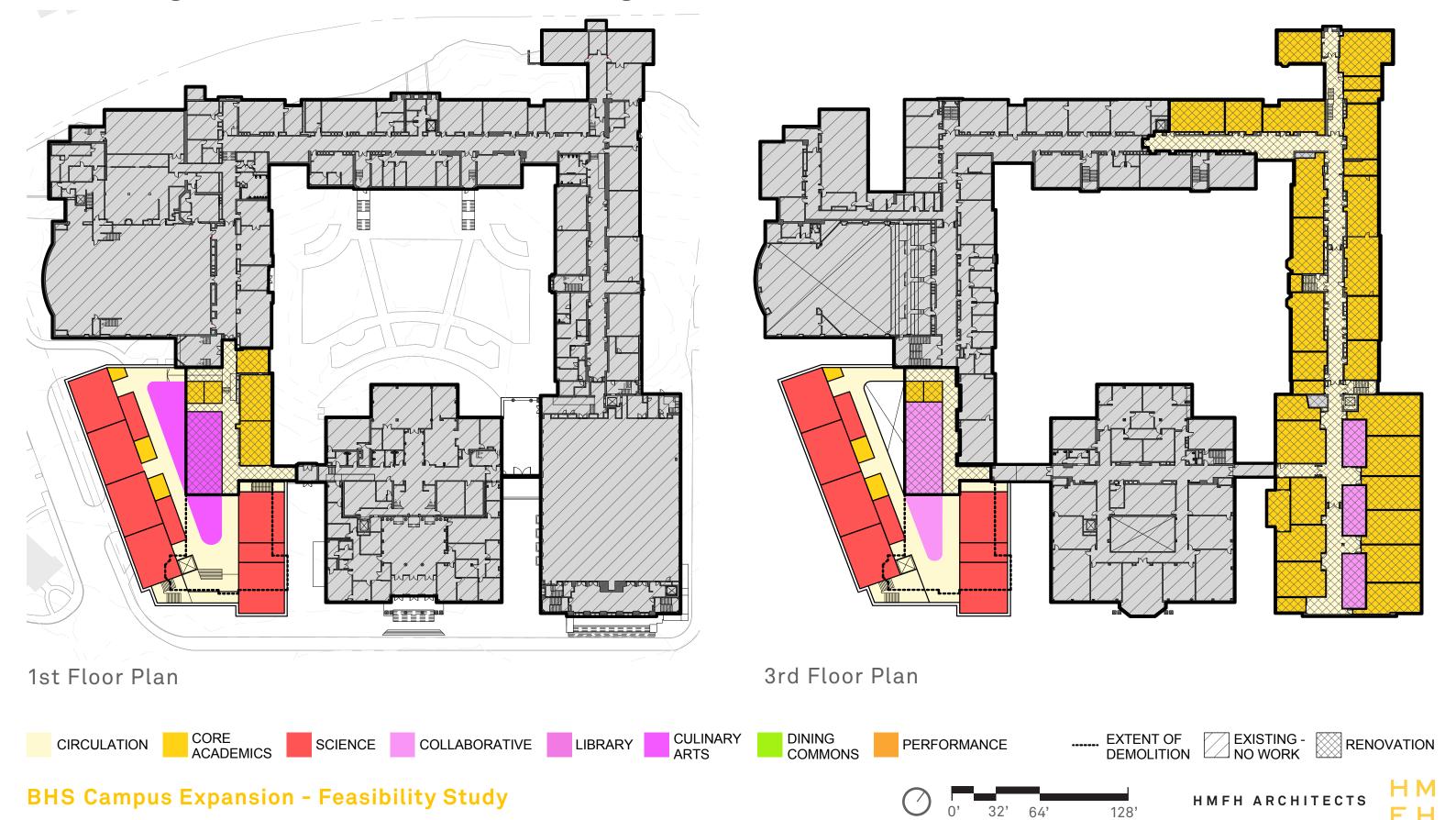
Massing 4B & 4D



RENOVATION

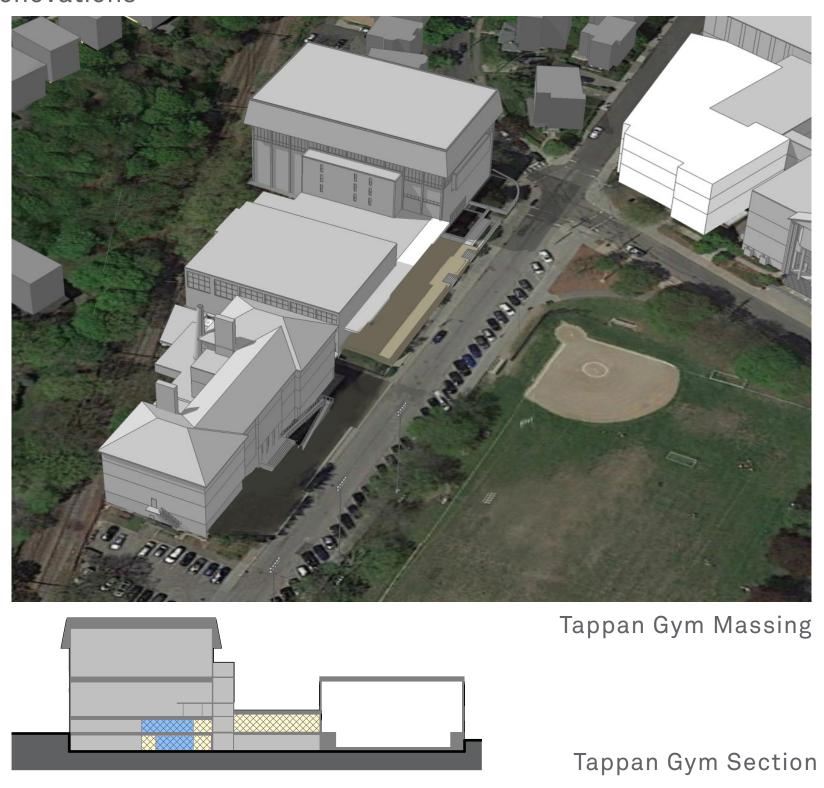
OPTION 4B & 4D

Brookline High School New Science at Roberts Wing & Renovate 3rd Floor as Core Academics



OPTIONAL PROJECT - with Option 1 or Option 4

1. Tappan Gym - Minimal Renovations







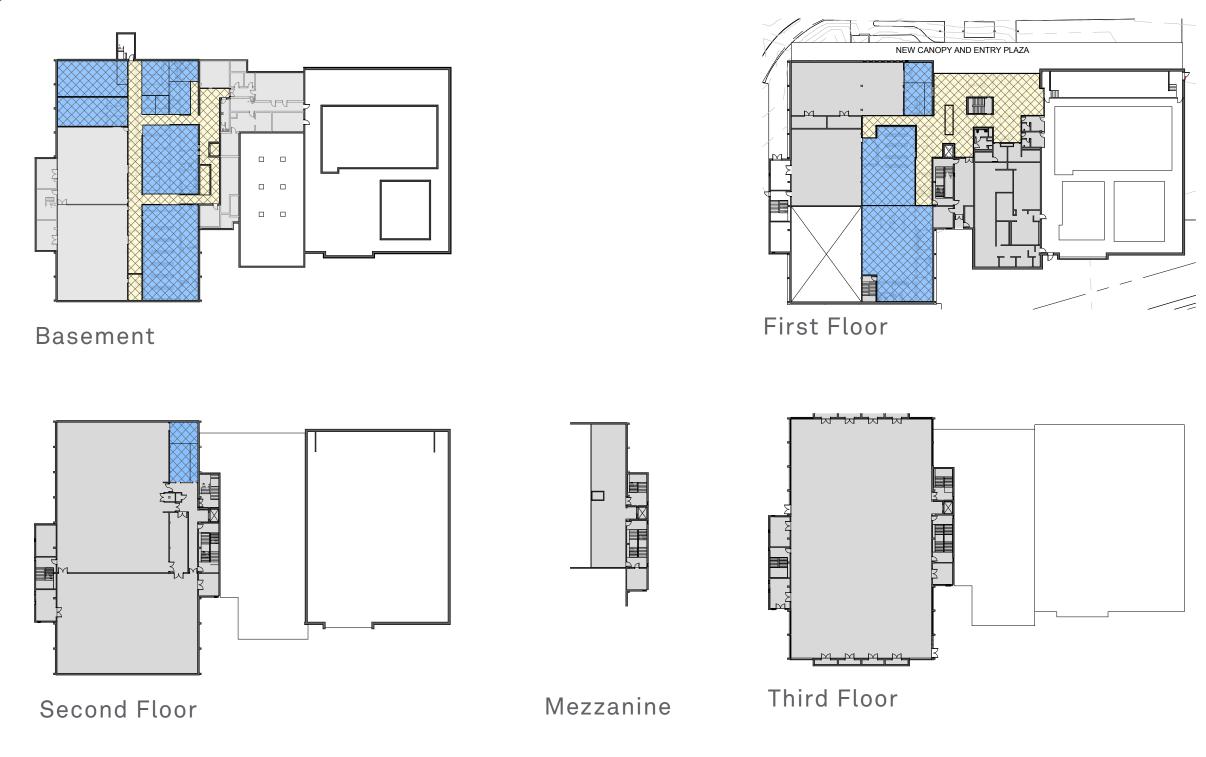




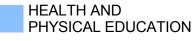


OPTIONAL PROJECT - with Option 1 or Option 4

1. Tappan Gym - Minimal Renovations









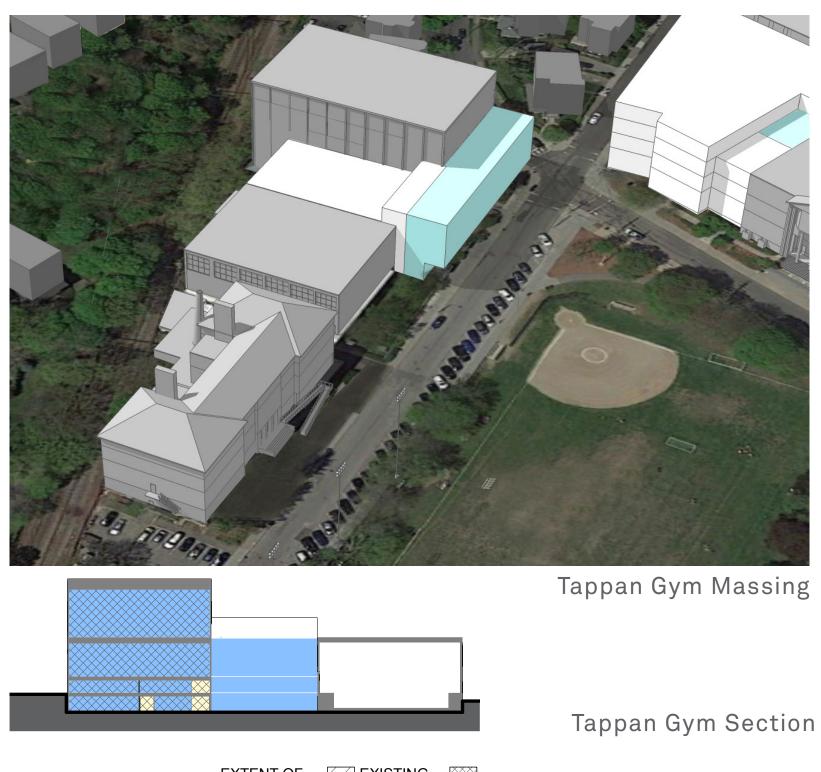




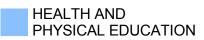
128'

MA State High School Standards

2. Tappan Gym - Moderate Expansion with Competition & Practice Gym







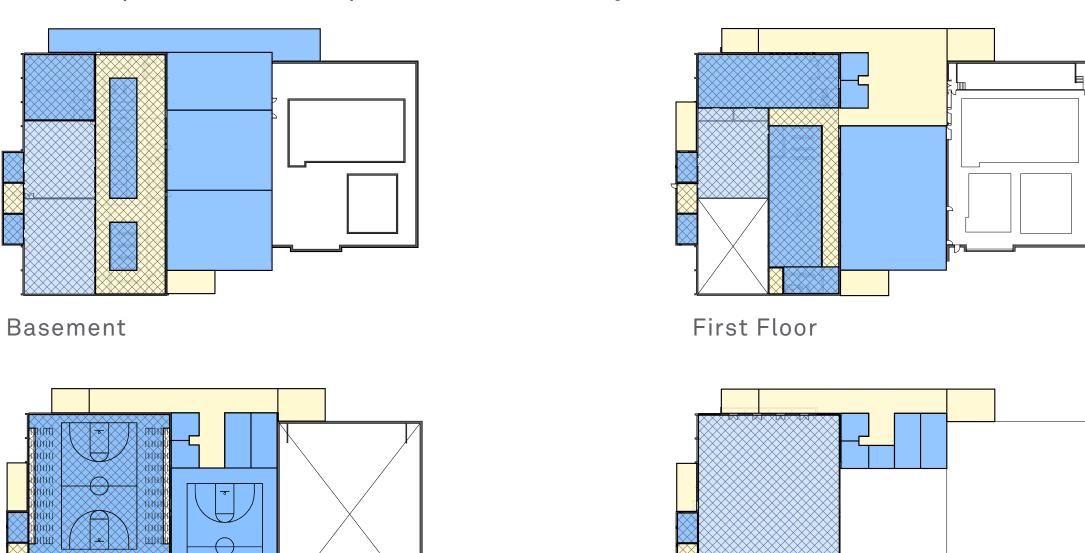




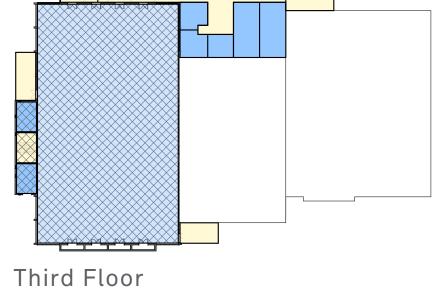


MA State High School Standards

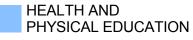
2. Tappan Gym - Moderate Expansion with Competition & Practice Gym



Second Floor









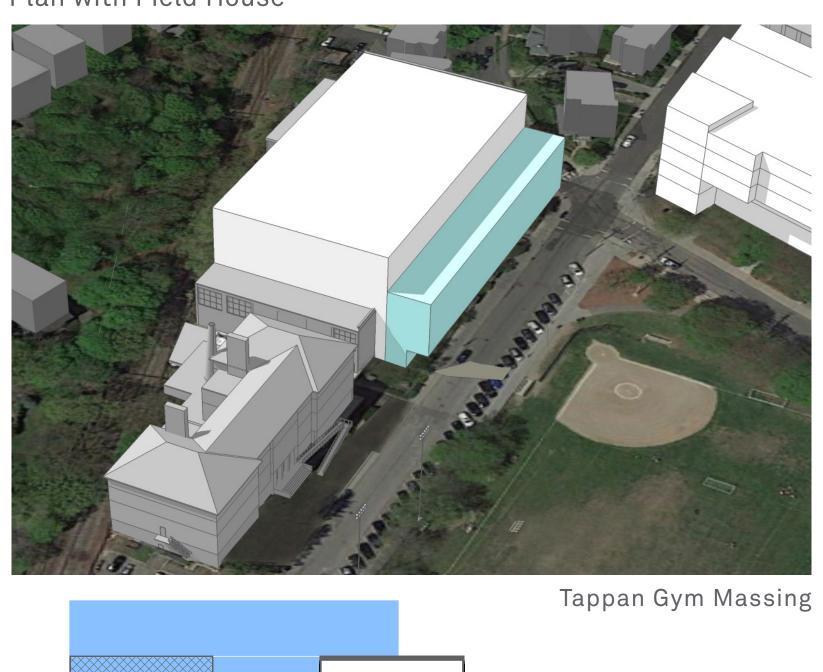




128'

Brookline High School Education Plan

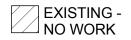
3. Tappan Gym - Education Plan with Field House



Tappan Gym Section



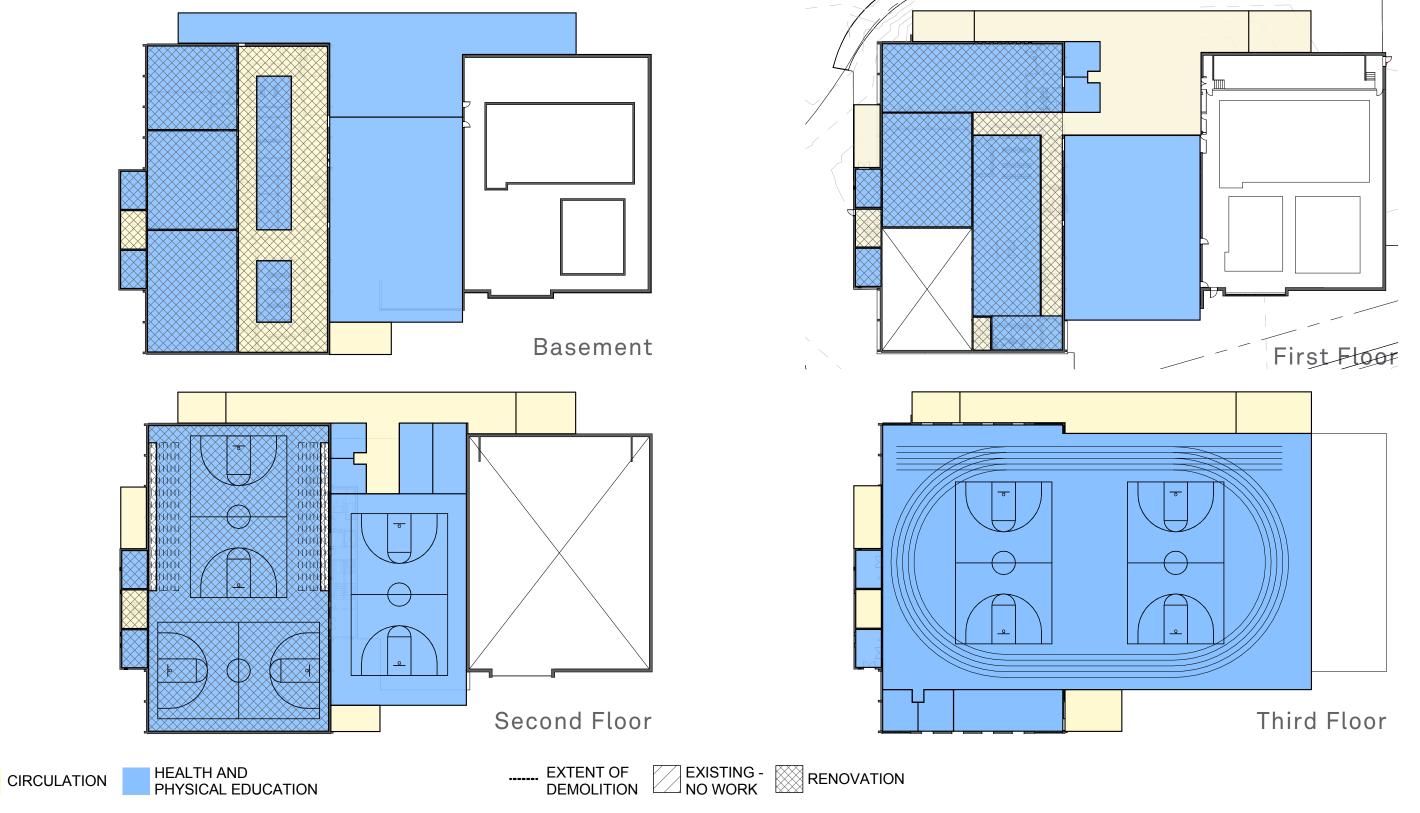






Brookline High School Education Plan

3. Tappan Gym - Education Plan with Field House



Program Priorities

	Option 1	Option 2	Option 3	Option 4	Option 4	Option 4
Core Academics	Enrollment Accommodation	MA State High School Standards	Brookline BHS Education Plan	Stand-alone Cypress Building	Main Building Renovate Science	Main Building New STEM Wing
Classrooms						
Existing	62	38	40		65	56
New Classrooms	30	57 New	58	26 New	5	14
Science Classrooms						
New Science	24	24 New	24 New	6 New		18 New
Renovate Science					18	
Special Education						
Learning Centers	8	12	13	6 New	Existing to Remain	Existing to Remain
OT/PT	1 New	1 New	1 New	1 New		

Program Priorities

	Option 1	Option 2	Option 3	Option 4	Option 4	Option 4
	Enrollment Accommodation	MA State High School Standards	Brookline BHS Education Plan	Stand-alone Cypress Building	Main BHS Renovate Science	Main BHS New STEM Wing
Collaborative Learning						
Small Group Rooms		16 New	34 New	1 New		
Maker-Spaces	1 New	2 New	4 New	1 New	Existing to Remain	2 New
Collab.Learning Common	Existing to Remain	4 New	11 New	5 New	MLK Room to Remain	2 New
Library	Relocate Reno/Expand	New & Expanded	New & Expanded	1 New Satellite	Existing to Remain	Existing to Remain
Cafeteria	Reno/Expand Existing	Reno/Expand Existing	New & Expanded	1 New Satellite	Existing to Remain	Existing to Remain
Career Ed. Technology	New Culinary Arts at BHS	New Culinary Arts at BHS	New Culinary Arts at BHS	Culinary Arts at BHS	Existing to Remain	New Culinary Arts at BHS
OPTIONAL Project	Existing UAB to Remain	Renovations at UAB	Renovations & Expand at UAB	Existing UAB to Remain	Existing UAB to Remain	Existing UAB to Remain

Program Priorities

	Option 1	Option 2	Option 3	Option 4	Option 4	Option 4
	Enrollment Accommodation	MA State High School Standards	Brookline BHS Education Plan	Stand-alone Cypress Building	Main BHS Renovate Science	Main BHS New STEM Wing
Performing/ Visual Arts						
Music & Perform Space	New Black Box	New Black Box and White Box	New Black Box, White Box and 400 seat Theater	1 New	Existing to Remain	Existing to Remain
Ensemble & Music Practice	New Chorus	New Band and Chorus	New Expanded Band & Chorus	3 New		
Arts Studios	New at BHS	New at BHS	New at BHS	1 New	Existing to Remain	Existing to Remain
OPTIONAL Project	Existing UAB to Remain	Renovations at UAB	Renovations & Expand at UAB	and at UAB to Remain	Existing UAB to Remain	Existing UAB to Remain
Physical Ed. Facilities						
Schluntz Gym (Competition)	Existing to Remain	Replace at Tappan	Replace at Tappan	Existing to Remain	Existing to Remain	Existing to Remain
Health/Fitness	Existing to Remain	2. Tappan Moderate	3. Tappan Renovation	2 New Health Classrooms	Existing to Remain	Existing to Remain
Tappan Facility	Existing to Remain	Renovation Expansion with Competition Gym	Expansion with Field House & Competition Gym	Existing to Remain	Existing to Remain	Existing to Remain
OPTIONAL Project	1. Renovate Tappan Gym			,	1. Renovate Tappan Gym	١

Option 1, 2 & 3 Summary and Cost

Option 1



Existing to Remain at BHS **294,310 sf**

New Construction at BHS **165,000 sf**

Project Cost **\$181,572,560**

Option 2

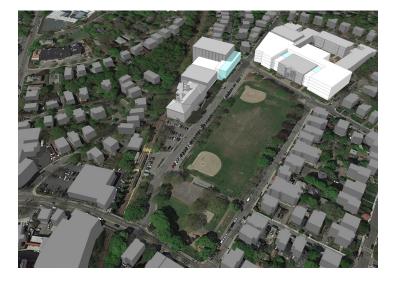


Existing to Remain at BHS **242,280** sf

New Construction at BHS 228,690 sf

Project Cost **\$212,261,728**

Option 2 with Tappan



Existing to Remain at BHS **242,280** sf

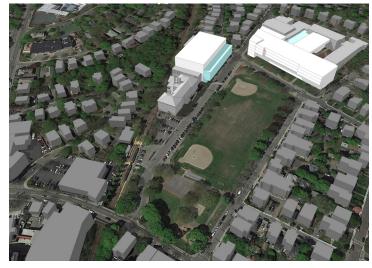
New Construction at BHS **228,690 sf**

Renovation at Tappan Gym **60,330 sf**

New Construction at Tappan Gym 49,300 sf

Project Cost **\$271,178,244**

Option 3



Existing to Remain at BHS 181,050 sf

New Construction at BHS **298,130 sf**

Renovation at Tappan Gym **60,130 sf**

New Construction at Tappan Gym **64,050** sf

Project Cost **\$348,352,647**

Option 4

Summary and Cost

Option 4A



Renovate Existing BHS Science 35,500 sf

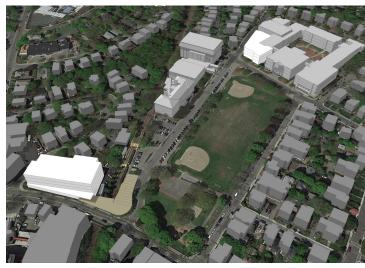
New Construction at BHS 7,500 sf

New Construction Cypress Building 109,810 sf

Project Cost

\$105,342,903

Option 4B



Renovate Existing BHS Science into Classrooms **36,500 sf**

New Construction at BHS 44,100 sf

New Construction Cypress Building 109,810 sf

Project Cost **\$131,117,378**

Option 4C



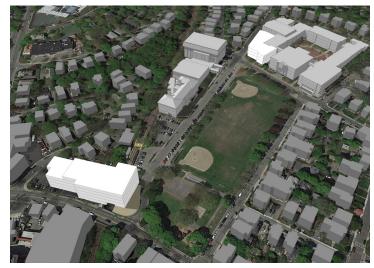
Renovate Existing BHS Science **35,500 sf**

New Construction at BHS **7,500 sf**

New Construction Cypress Building over the MBTA 112,700 sf

Project Cost **\$110,838,332**

Option 4D



Renovate Existing BHS Science into Classrooms **36,500 sf**

New Construction at BHS **50,400 sf**

New Construction Cypress Building over the MBTA 112,700 sf

Project Cost **\$136,612,807**

OPTIONAL PROJECTS

Tappan Gym Upgrades

1. Minimal Renovations



Project Cost **\$13,290,000**

2. Moderate Expansion with Competition & Practice Gym



Project Cost **\$62,266,000**

Note: Option 2. Tappan Gym Moderate Expansion is included in the program, planning for the BHS OPTION 2. State High School Standards. Costs have been summarized both with and without this Tappan Gym Upgrade **2.1** Min.Moderate Expansion with Practice Gym only



Project Cost **\$52,706,000**

3. Education Plan with Field House



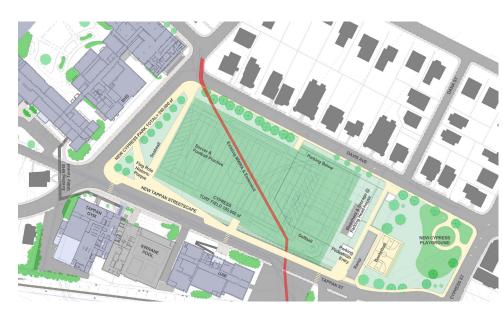
Project Cost **\$74,000,000**

Note: Option 3. Tappan Education Plan with Field House is included in the program, planning, and costs for the BHS OPTION 3. Education Plan

OPTIONAL PROJECTS

Cypress Park Field & Playground

1. Field & Playground Renovation



Project Cost **\$13,335,500**

2. Field & Playground Renovation with Greenough St. Re-alignment



Project Cost **\$14,638,500**

Underground Parking

1. Typical Plan for Parking below Cypress Park

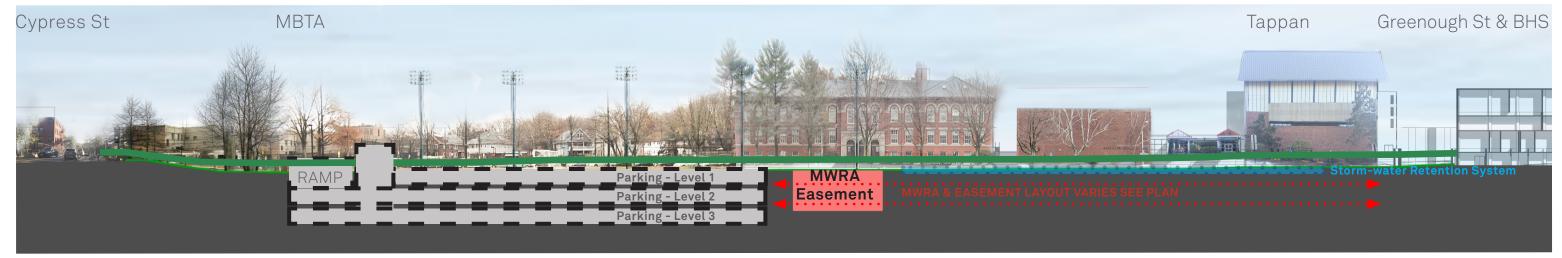


Project Cost

1-Level 100 cars = **\$21,051,500**

2-Levels 200 cars = **\$33,769,600**

3-Levels 300 cars = **\$46,806,000**



Site Section: Underground Parking Structure Below Cypress Park - Field @ +/- 100 Cars per Level



