

Brookline High School Further Study

Brookline High School - Community Presentation & Discussion



Steering Committee



Public Schools of Brookline

William Lupini, Superintendent

Peter Rowe, Deputy Superintendent for Administration and Finance

Jennifer C. Fischer-Mueller, Deputy Superintendent for Teaching and Learning

Deborah Holman, Brookline High School Headmaster

Hal Mason, Brookline High School Assistant Headmaster

Ray Masak, Project Manager, Brookline Building Department

SMMA

Philip Poinelli, Educational Planner

Alex Pitkin, Design Architect

Visioning – David Stephen, NewVistaDesign

Brookline High School Further Study Public Schools of Brookline



AGENDA:



- Define the Problem
- Opportunities for 21st Century Teaching and Learning
- Conceptual Options

Define the Problem



- Population Growth (students are here now at lower grades)
- Need for Additional Classrooms, Labs, Support Spaces
- Provide Appropriate Size Teaching Spaces
- Provide Flexibility to Accommodate Current and Future Educational Delivery Methodologies
- Develop 21st Century Teaching and Learning Environments

Opportunities for 21St Century Teaching and Learning



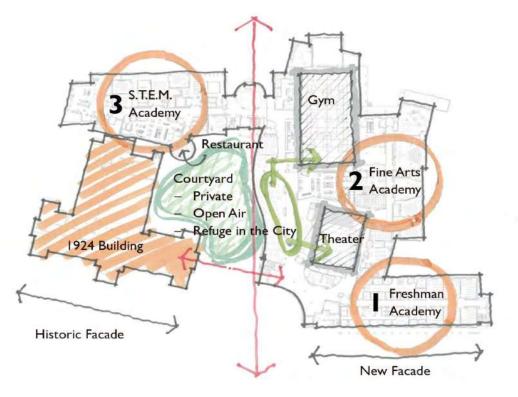
- 4 C's Skills Communication, Collaboration, Creativity,
 Critical Thinking and Problem Solving
- Methodologies to Deliver the 4 C's
 - Active Learners
 - Project Based Learning (PBL) interdisciplinary, hands on,
 - Integration of Technology Blended Learning
 - Flipped Classroom
 - Differentiated and Personalized Learning
 - The Third Teacher



Conceptual Options - Educational



- Status Quo
- Academic Houses
- Freshman Academy
- Thematic Houses
- Science, Technology, Engineering and Math (STEM) or STEAM, Integration of the Arts in STEM



Conceptual Options- Physical

- Expansion within Existing Building
- Expansion of Main Campus
 - Tappan Gym, UAB
 - Old Lincoln School
 - Boylston Street Playground
 - 111 Cypress Street
- New School
 - New BHS
 - New Second School
 - Second Campus of BHS



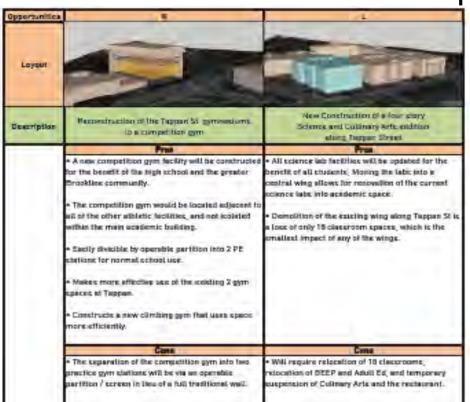




History of Study



Previous Studies: 2012 Masterplan (MGT)
 2013 BHS Concept Study (HMFH)
 2013 B-Space Report



- 15 Options Reviewed
- Remains a valid source of ideas

Anticipated Growth



Population (2013 - 2014): 1,802

Current Population (2014 - 2015): 1,877 (+77)

Short Term Population (2019 - 2020): 2,288 (+486)

Projected Population (2024 - 2025): 2,600 (±798)

say 800 or 44% Increase!

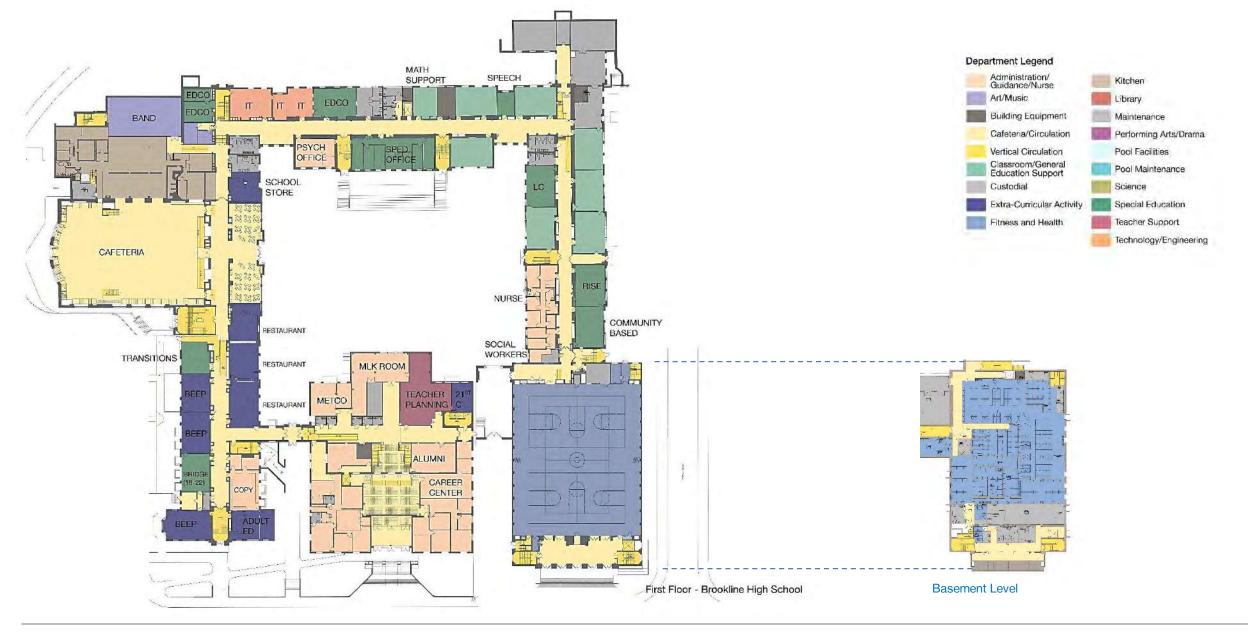
Educational Space Requirements: Core Curriculum



		Current Classrooms	Classrooms Required for 1800 Students	Classrooms Required for 2100 Students	Classrooms Required for 2300 Students	Classrooms Required for 2600 Students	Net SF Current	Net SF 2600	Delta (Net SF)
Core Academic									
EN	English	14	14	16	18	19	9,805	17,100	
WL	World Languages	15	15	17	18	20	10,865	18,000	
WL	Language Lab	1	1	1	1	1	1,275	1,275	
so	Social Studies	11	11	12	14	15	7,600	13,500	
MA	Math	13	15	17	19	21	9,125	18,900	
HF	Wellness	0	1	2	2	2	0	1,800	
	Classroom TOTAL	54	57	65	72	78	38,670	70,575	31,905
			+3 CR's	+11 CR's	+18 CR's	+24 CR's			
Science									
sc	Physics		5	5	6	7			
sc	Chemistry		5	6	6	7			
SC	Biology		4	5	6	7			
SC	Applied Science		2	2	2	2			
Science TOTAL		22	16	18	20	23	18,775	33,120	14,345
	STEM?								

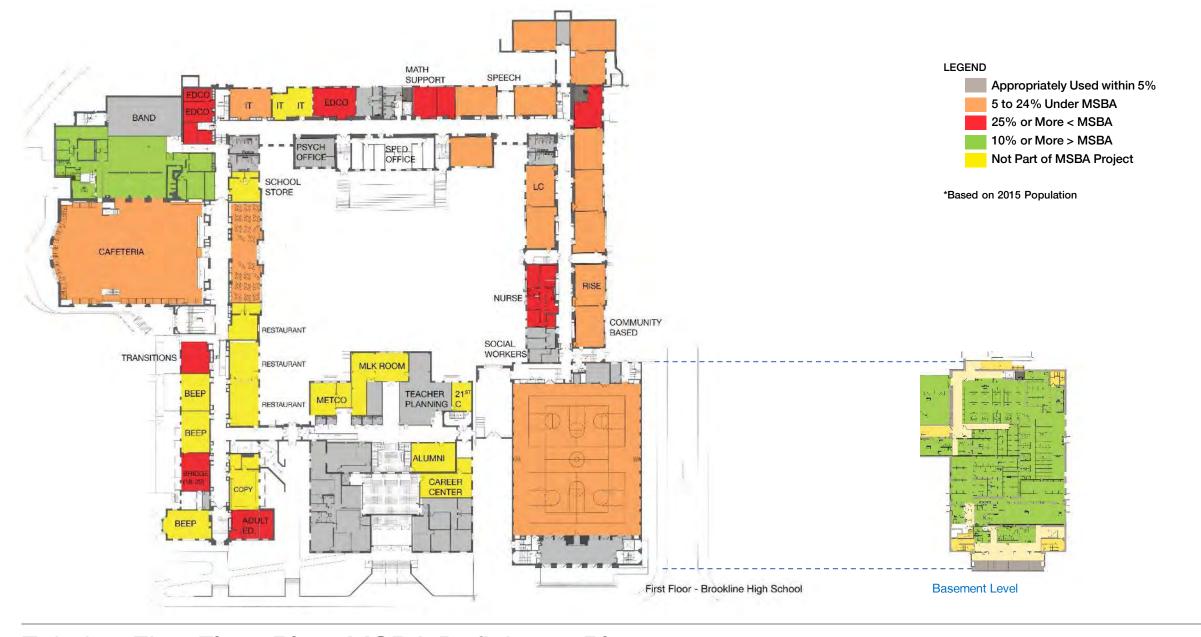






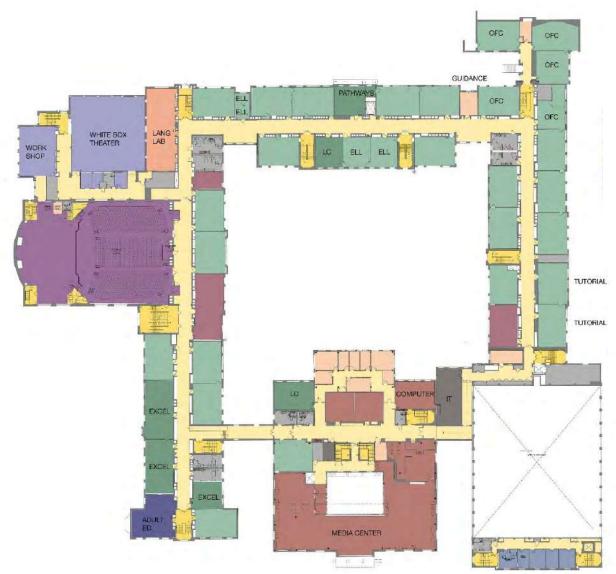


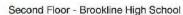




Existing First Floor Plan: MSBA Deficiency Plan Public Schools of Brookline











Second Floor - Brookline High School

LEGEND

Appropriately Used within 5%
5 to 24% Under MSBA
25% or More < MSBA
10% or More > MSBA
Not Part of MSBA Project

*Based on 2015 Population







Third Floor - Brookline High School



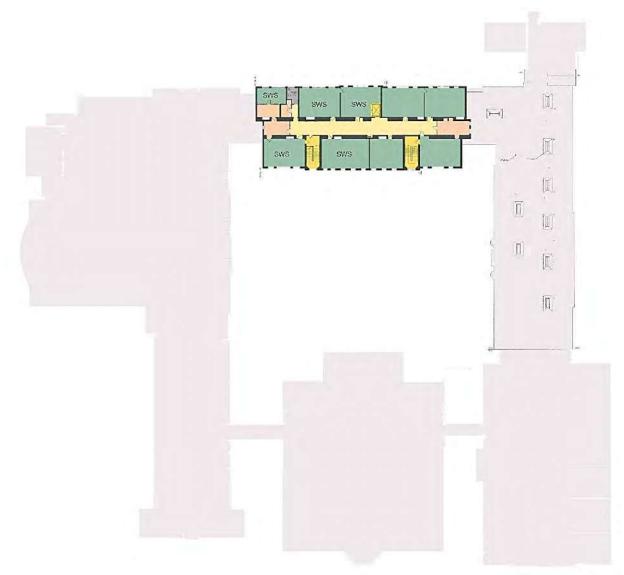


Third Floor - Brookline High School

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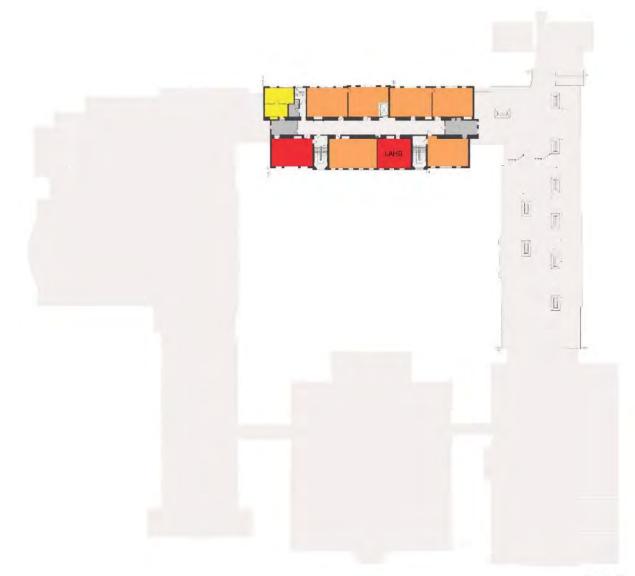
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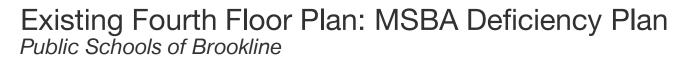


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Growth Impact on Space – 2,600 Students Total



- 24 Additional General Education Classrooms needed (Core Curriculum)
- 23 Appropriately Sized Science Lecture Labs needed
- Additional Special Education Rooms and Support Space
- Larger Cafeteria (increases 70%)
- Larger Library/Media Center (increases 100%)
- Few Increases to Number of Specialty Rooms, But Increase sizes
- Additional Support Areas:
 - Offices: Administration, Guidance, Deans







Visioning Process



- Visioning Sessions 1 & 2 (June and September 2014)
 - The intent of the Visioning process was to engage a representation of the Brookline community to understand and contribute to the High School further study process
 - Inclusion of: District administrators, BHS administrators, BHS teachers, BHS students; BHS parents, school committee, selectmen, planning board, building commission, members of the business community

Visioning & Visioning Reflected 6/24/2014 & 9/23/2014



- Key Spaces and Adjacencies that Align with Changing Needs
 - Flexible Media Commons vs. "traditional" Library, All Day (dining) Commons vs. Cafeteria
- Self Directed Learning
 - School Within a School (SWS) early adopter
- Conversational Classrooms
 - Flexible Furniture, Right Sized Classrooms
- Hands-on and Experiential Learning, Learn by Doing
 - Maker Space(s); CTE; expand Project Based Learning
- Integration Between Disciplines/Departments
 - STEM, STEAM
- Flexible Technology
 - 1:1 Campus Environment







- Collaborative Spaces for Students and Faculty (Jointly)
 - Small Group Instruction, Maker Spaces, Informal Learning Spaces
- Use of the Entire Building / Campus for Teaching & Learning
- Green / Sustainability
 - School as a Teaching Tool
- Big School, Small Feel
 - Small Learning Communities

Other Phrases:

Original Research

Accomplishment

Adult Experiences

Going Outside One's Comfort Zone

Willingness to Fail

On-Line Learning

Autonomy

Creativity

Imagination

Inventive Thinking

Emotional Intelligence

Effective Communication

No Corridors-Just Learning

Environments

Play and Joy



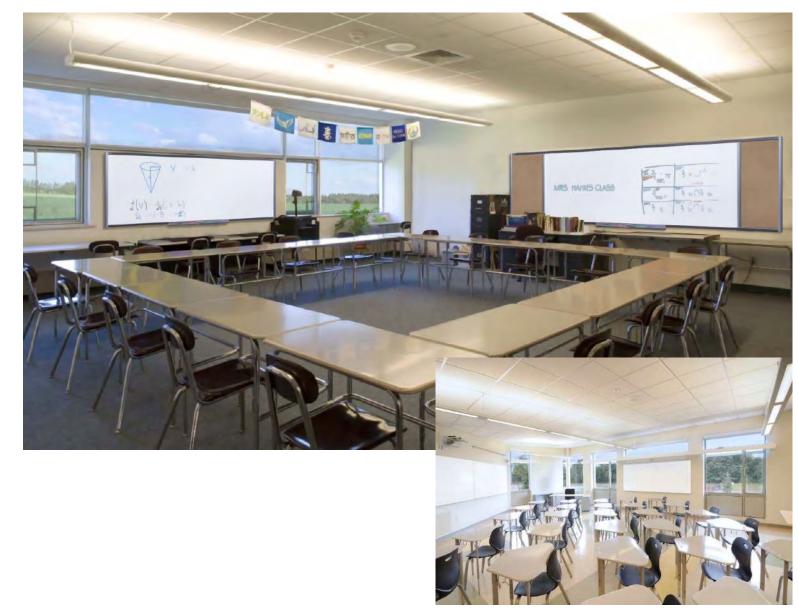


Existing Library
Public Schools of Brookline



Learning Commons
Public Schools of Brookline









Spaces for 21st Century Learning



Existing Corridors





Spaces for 21st Century Learning

Corridors of Power Self Directed Learning









Critical Adjacencies



Math Classroom (825 SF)

Service Learning Program (250 SF)

CADD Lab (1,000 SF)_

Machine Shop (1,000 SF)

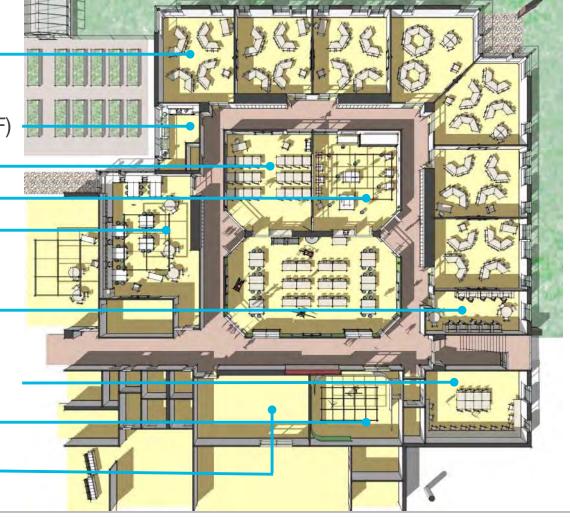
Physics Labs (2 @ 1,440 SF)

Teacher Planning (750 SF)

Editing Suite/MAC Lab (1,250 SF)

TV Studio (850)

Robotics Lab (1,200 SF)





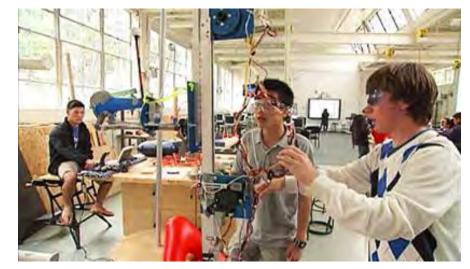
Visioning Reflected – Fab Lab



- Integration Between Disciplines / Departments
 - STEM, STEAM
- Collaborative Spaces for Students and Faculty (Jointly)
 - Maker Spaces,Informal LearningSpaces



Fab Lab













Visioning Reflected

Learn by Doing: Project-Based Learning and Display



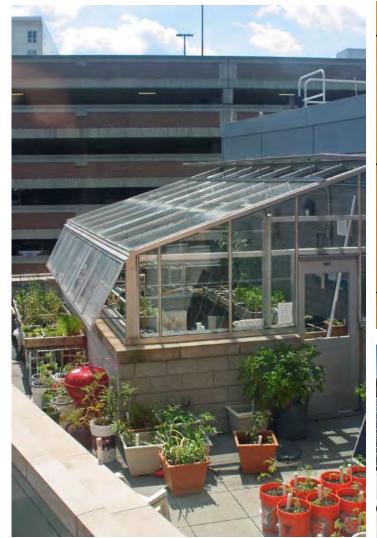






Visioning Reflected

Green/Sustainability: School as a Teaching Tool















Student Restaurant and Bakery Example Public Schools of Brookline



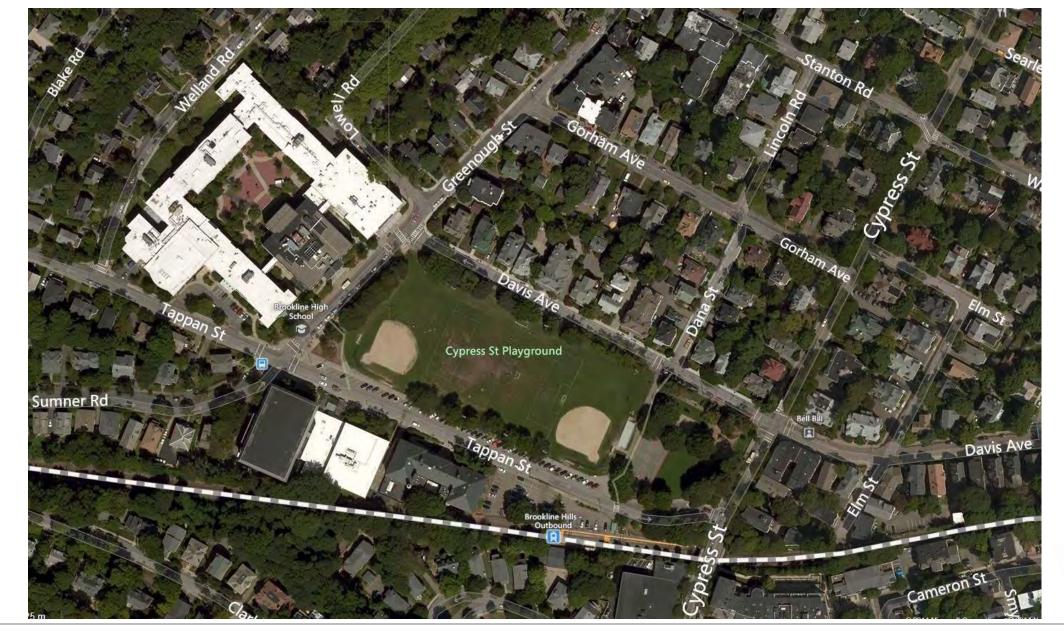
Conceptual Options: Physical

Expansion within Existing Building

Expansion of Main Campus

New School on One Campus or Two Campuses









Existing High School Campus Site Public Schools of Brookline



Existing Building Options



- Expand Inside Footprint: 1949 Gymnasium
- Expand Cafeteria/Restaurant Core Spaces
- Rethink Media Center as Learning Commons
- Expand Fourth Floor Footprint/Efficiency
- Rethink Sciences (right size rooms, reuse spaces as classrooms)
 Move/distribute as many as 6 to 8 Science Labs
 STEM/STEAM
- Expand Campus at Courtyard







Existing First Floor Plan: Current Program Public Schools of Brookline

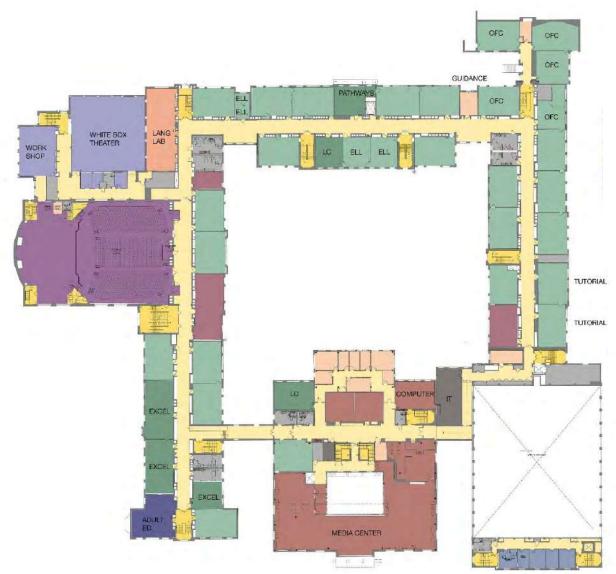


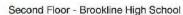




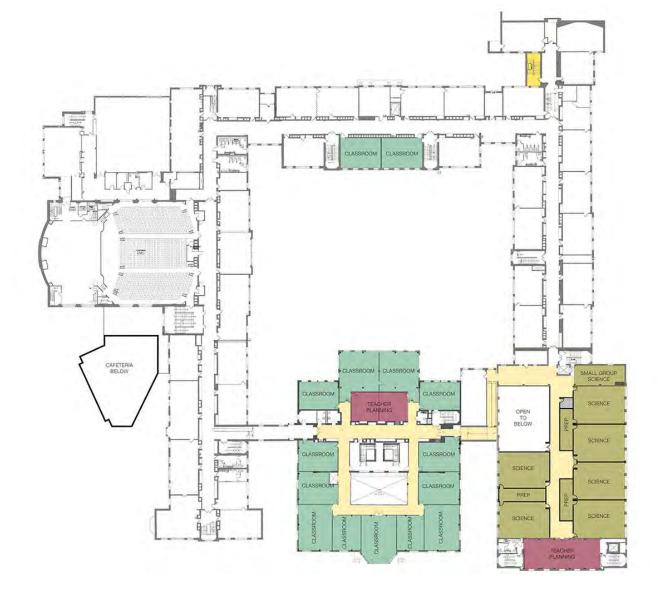
- Add Administration, Guidance, Dean's Space?
- Move Nurse Near Cafeteria?
- Potential for 4 Additional Classrooms and 1 Teacher Planning Space













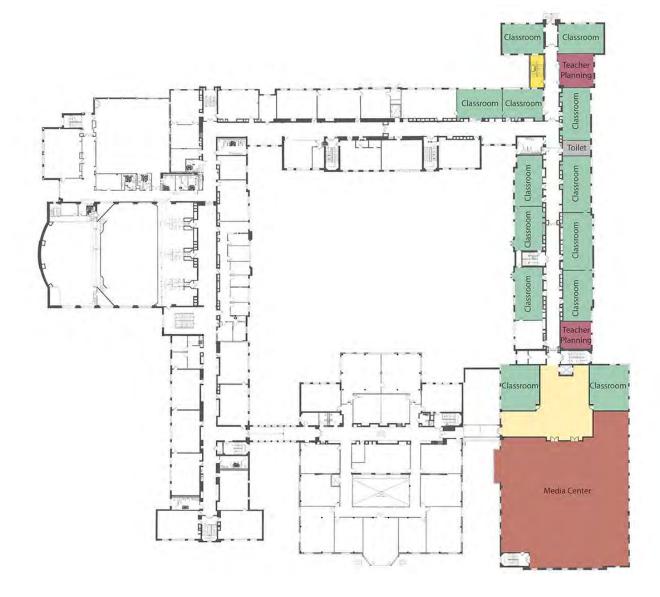
- Use Library Space More Efficiently Match 3rd Floor Layout
- Total 13 "Full Size" Science Labs
- 13 Classrooms*
- 1 Teacher Planning Center





Third Floor - Brookline High School

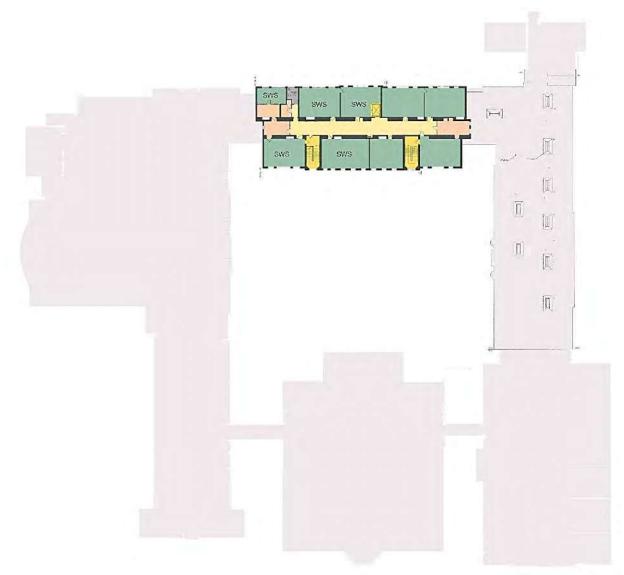






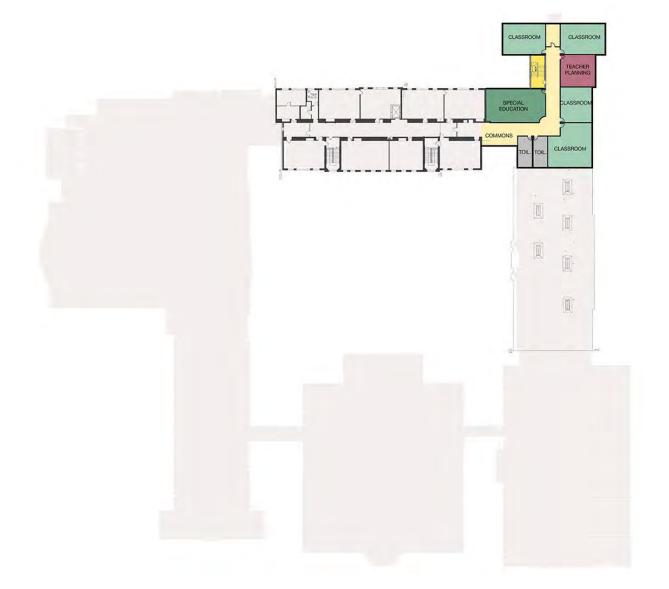
- Relocate Library to Create Media Center Space Over Gymnasium
- Renovate 11 Undersized Science Labs to 13 Classrooms (TBD)





Fourth Floor - Brookline High School



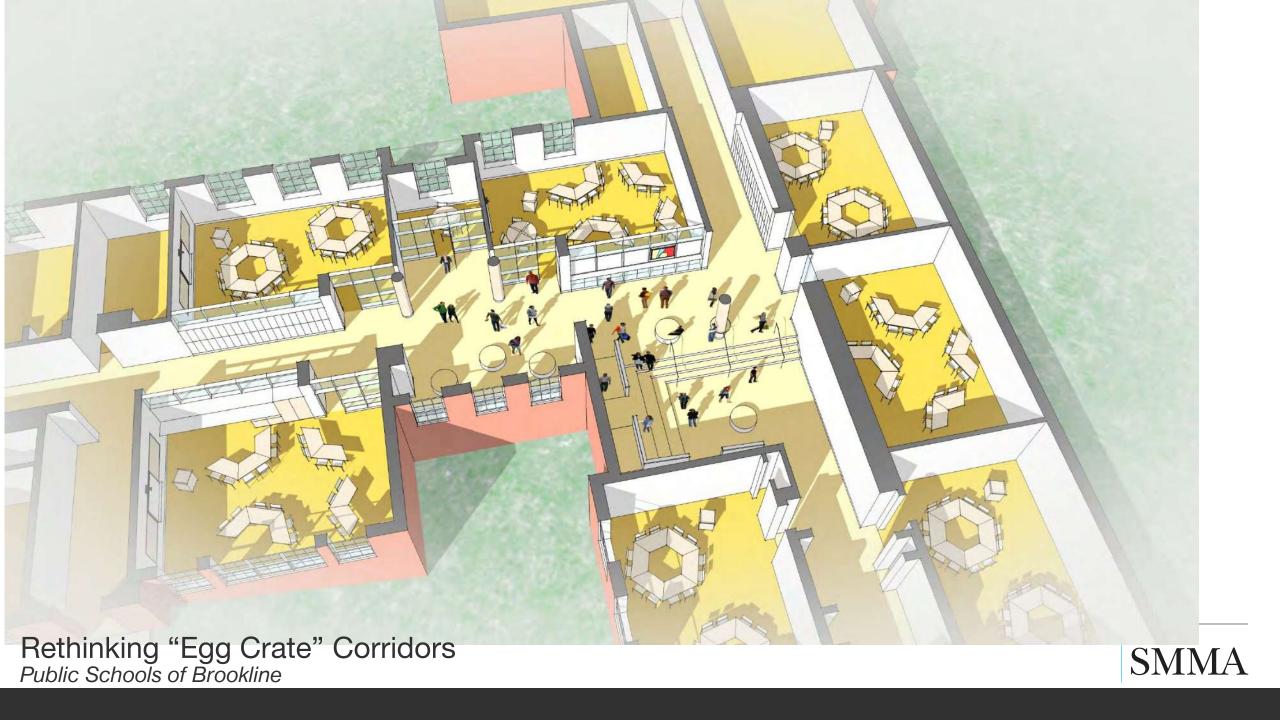




 Add 4 Classrooms, 1 SPED CR Teacher Planning, Toilets









Existing Building: Option 1 Space Opportunities Public Schools of Brookline



Potential Building: Option 1 Space Opportunities Public Schools of Brookline











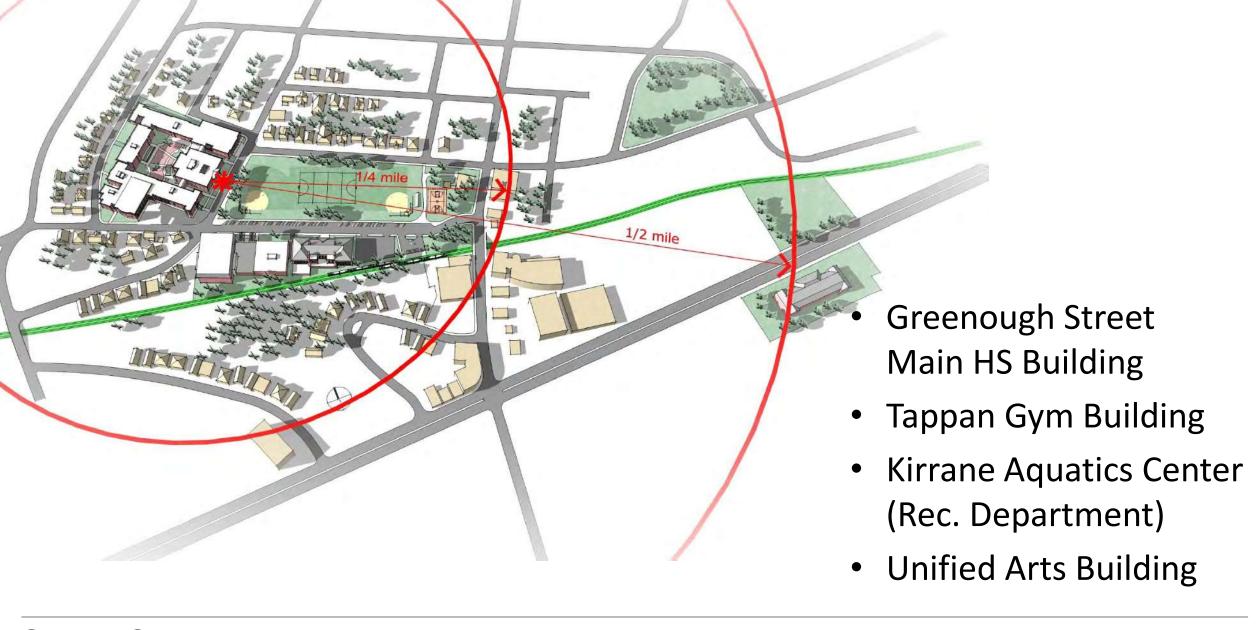
Cafeteria as Central Commons Courtyard Examples

Public Schools of Brookline



Brookline High School One Campus Options





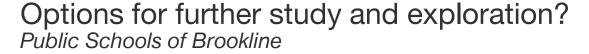
Expanding the Campus Options



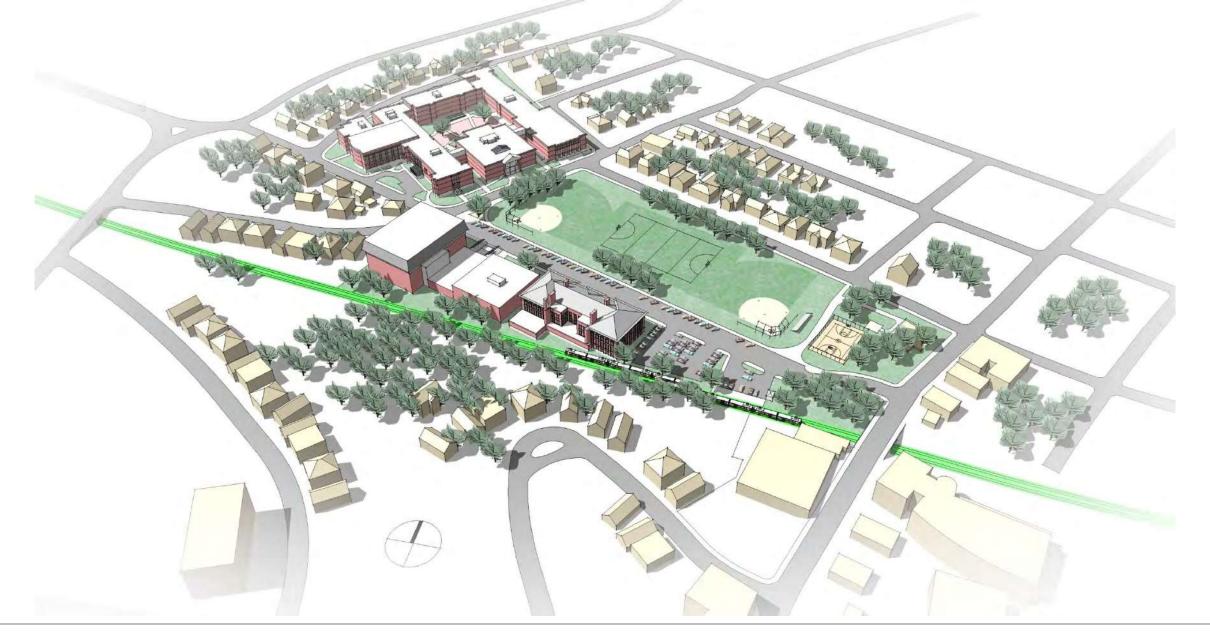
- Renovate Tappan Gymnasium for Competition and P.E. facility
- Rethink Sciences STEM/STEAM

Move as many as 6 to 8 Science Labs to Unified Arts Building Build on parking lot

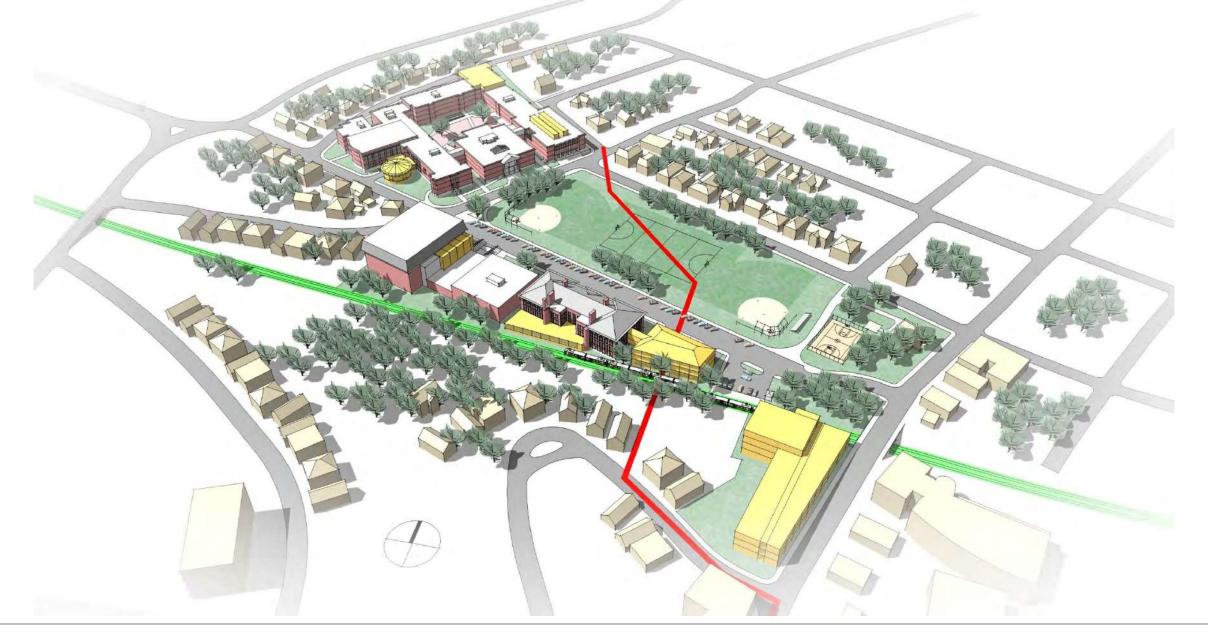
- Expand Campus Boundaries: 111 Cypress Street,
 Old Lincoln School, Lincoln School playground, Other
- Build on open park space (Not feasible with Article 97 process)
- Remove swimming pool to expand school







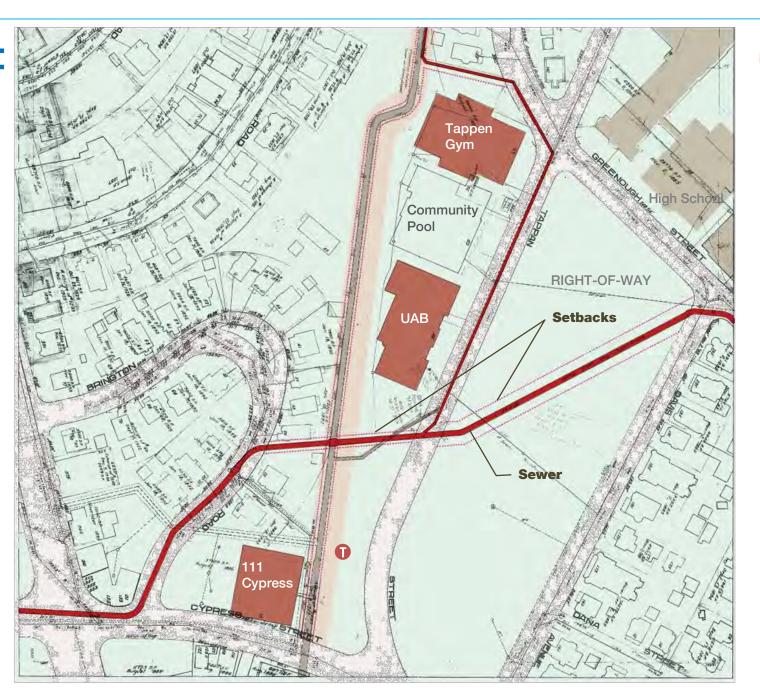
Existing High School Campus Site Public Schools of Brookline



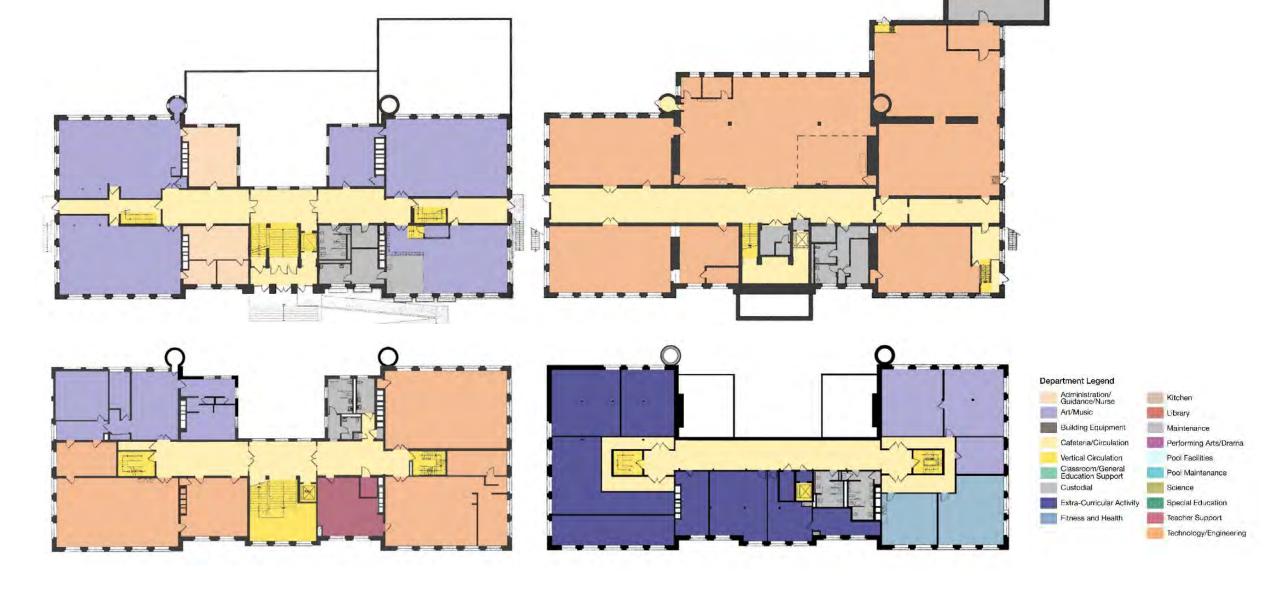
Potential Campus Build-Out Public Schools of Brookline

111 Cypress Street: Medical Office Building

Site

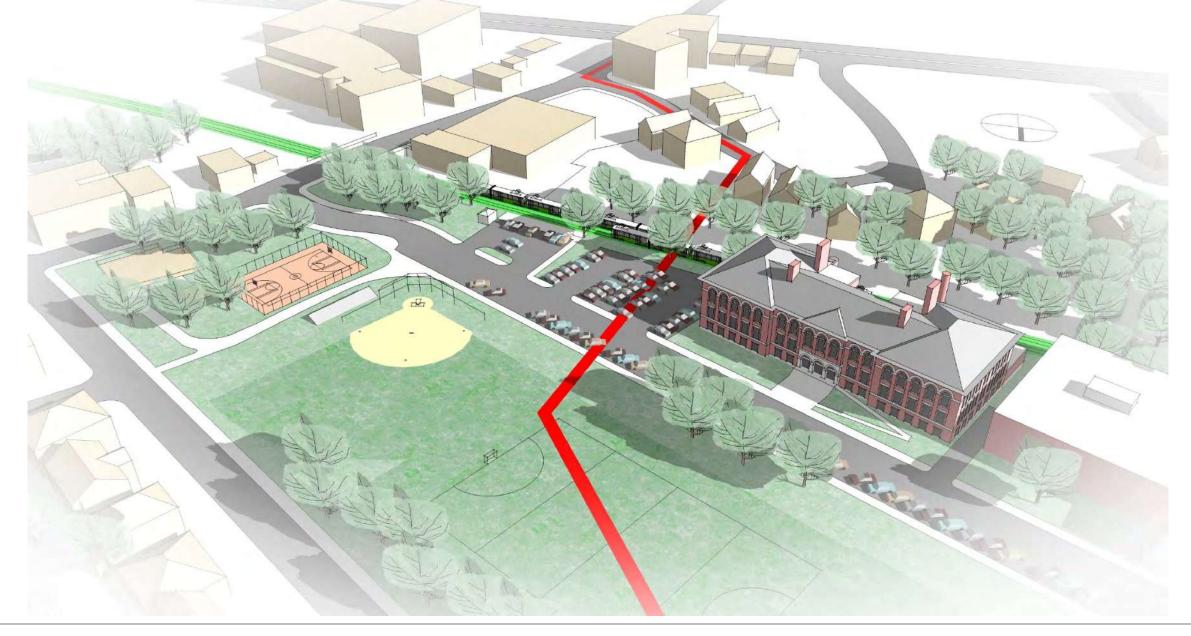




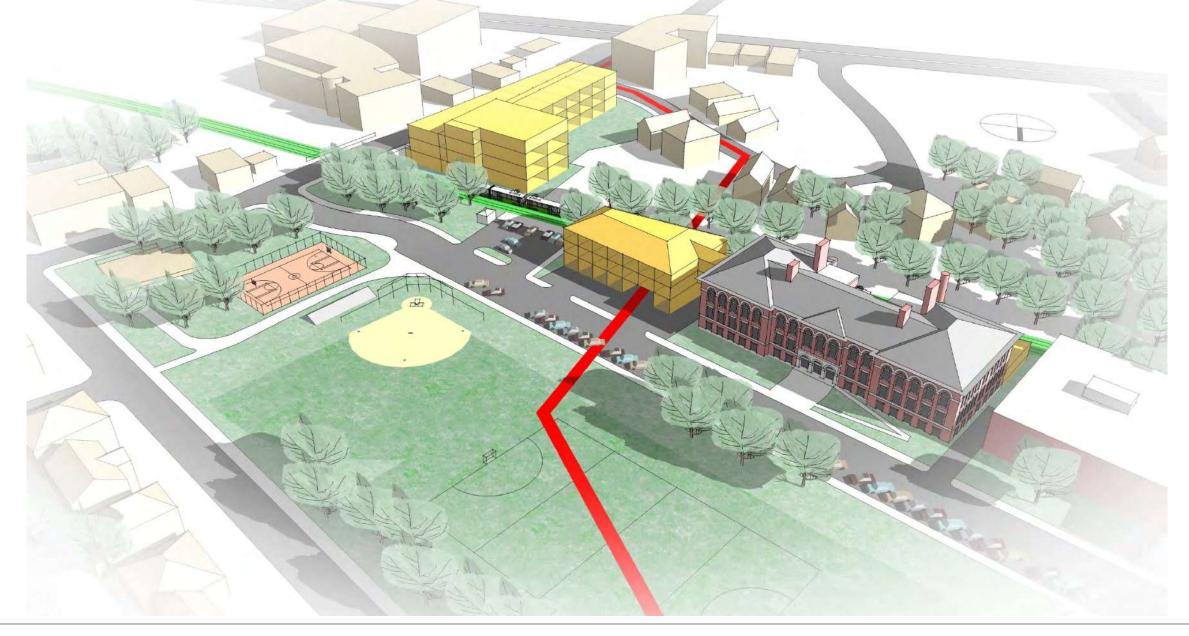








Existing Unified Arts Building Public Schools of Brookline



Potential UAB Build-Out Public Schools of Brookline

One Campus – Larger Main Campus



PROS:

- Status Quo for student culture and community
- Opportunity to address all spaces
- Potential use of old Lincoln School in near future
- Potential acquisition(s) of nearby property
- Intended retention of programs not normally funded by MSBA
- Opportunity to right size all or most science rooms
- Opportunity to right size some academic classrooms

One Campus – Larger Main Campus



CONS:

- How Big is Too Big?
- If retained on one campus, could the community be faced with a similar problem in the future, 15 - 20 or more years from now?
- Likely loss (or move) of some programs:
 Community Education, Early Childhood (BEEP), others TBD
- Very dense school community
- Increased parking requirement & traffic concerns
- Phasing and construction impacts TBD



Brookline High School Second Campus Site Possibilities



One Campus vs. Two



- Studied in depth as part of MSBA module 3 Feasibility Study
- Impact on teaching and learning
- How many or which programs can be replicated on a second campus or which would be relocated?
- Impact on school culture
- Impact on long-term operational costs
- Are shortcomings of existing campus ignored?
- Unique programs

Unique Programs



- 80[±] Singletons One section for an offering: unique curriculum offering; honors; AP; semester offering
- Career and Technical Education (CTE), which is included in requirements for graduation
- Opportunity for change
- School within a school (SWS)
- Special programs within special education
- Winthrop House (currently off campus)
- Large number of student clubs and activities
- Interscholastic and intramural sports









Second Campus



Pros:

- Contemporary teaching and learning environments would be infused throughout the new building
- Potential special focus school; e.g. STEM, STEAM, academic academy, freshman academy, International Baccalaureate
- Smaller population (smaller learning community)

Second Campus



Cons:

- All curriculum offerings and programs would likely not be offered at both schools
- With potential MSBA participation in a new school, renovations at the main campus may not be funded and will require discussions with MSBA during feasibility study
- Busing likely required
- Politically challenging
- Larger staff and ongoing operational costs





Next Steps

- Select Approach (for planning/moving forward purpose)
- Traffic Study & Conceptual Estimate(s)
- Preparation of SOI (school dept.)
 - Requires Signatures from:
 - Superintendent,
 - School Committee,
 - Board of Selectman

