SCHOOL COMMITTEE MEETING

John R. Pierce K-8 School

September 15, 2022





TODAY'S AGENDA

)1	 PIERCE SCHOOL Opening Remarks Introductions Public Process Existing Conditions & Needs
)2	MSBA FEASIBILITY STUDY/SCHEMATIC DESIGN MSBA Process Overview Summary of Options Studied Schedule
)3	 DESIGN UPDATE Revised Site Plan Revised Floor Plans Revised Renderings
)4	PROJECT COSTS Schematic Design Estimate Proposed Value Engineering How we got to Current Budget Proposed Total Project Budget Potential Escalation Next Steps Why Pierce Now?
)5	QUESTIONS & ANSWERS

PIERCE SCHOOL OPENING REMARKS





PUBLIC SCHOOLS of BROOKLINE

PIERCE SCHOOL SCHOOL BUILDING COMMITTEE



Bernard Greene, Co-Chair

Select Board

Janet Fierman, Co-Chair

Building Commission

Helen Charlupski, Co-Chair

School Committee

Melvin Kleckner

Town Administrator

Melissa Goff

Deputy Town Administrator

Daniel Bennett

Building Commissioner

Carol Levin

Advisory Finance Committee

Steve Heikin

Planning Board

Charlie Simmons

Director of Public Buildings

Nancy O'Connor

Parks and Recreation Commission

Tony Guigli

Building Department Project Administrator

Linus J. Guillory Jr., PhD

Superintendent of Schools

Andy Liu

School Committee

Lesley Ryan-Miller

Deputy Superintendent of Teaching & Learning

Samuel Rippin

Asst. Superintendent of Schools Admin. & Finance

Jamie Yadoff

Pierce School Principal

Matt Gillis

Director of Operations, PSB Project Manager

Aaron Williams

Pierce School Parent

Nurit Zuker

Pierce School Parent

PIERCE SCHOOL PROJECT TEAM









Better design, together.



PIERCE SCHOOL PUBLIC MEETINGS



Eligibility & Preliminary Design Program Phase Meetings – 21 Public Meetings (June 3, 2019 – June 15, 2021)

- SBC Meeting April 22, 2020
- SBC Meeting June 18, 2020
- SBC Meeting September 23, 2020
- SBC Meeting October 6, 2020
- SBC Meeting January 28, 2021
- SBC Meeting June 14, 2021
- Public Forum March 2, 2021
- Public Forum March 15, 2021
- Public Forum March 18, 2021

- Building Commission Meeting

May 12, 2020

June 9, 2020

August 11, 2020

September 8, 2020

October 13, 2020

November 10, 2020

December 8, 2020

January 12, 2021

February 9, 2021

March 9, 2021

April 13, 2021

May 11, 2021

PIERCE SCHOOL PUBLIC MEETINGS



Preferred Schematic Report Phase Meetings – 17 Public Meetings (June 16, 2021 – March 2, 2022)

- SBC Meeting August 4, 2021
- SBC Meeting September 9, 2021
- SBC Meeting September 30, 2021
- SBC Meeting October 14, 2021
- SBC Meeting October 21, 2021
- SBC Meeting October 28, 2021
- SBC Meeting November 8, 2021
- SBC Meeting December 6, 2021
- SBC Meeting December 13, 2021
- Public Forum October 25, 2021

- **Building Commission Meeting**
- **Building Commission Meeting**
- Building Commission Meeting August 10, 2021
- **Building Commission Meeting**
- **Building Commission Meeting**
- **Building Commission Meeting**
- **Building Commission Meeting**

June 15, 2021

July 13, 2021

September 14, 2021

October 12, 2021

November 9, 2021

December 14, 2021

PIERCE SCHOOL PUBLIC MEETINGS



Schematic Design Phase Meetings To Date (Ongoing) – 22+ Public Meetings (March 3, 2022 – December 21, 2022)

- SBC Meeting January 13, 2022
- SBC Meeting February 3, 2022
- SBC Meeting February 17, 2022
- SBC Meeting March 7, 2022
- SBC Meeting April 1, 2022
- SBC Meeting April 14, 2022
- SBC Meeting April 28, 2022
- SBC Meeting May 19, 2022
- SBC Meeting June 16, 2022
- SBC Meeting July 6, 2022
- SBC Meeting July 13, 2022
- SBC Meeting July 20, 2022

- Building Commission Meeting
- **Building Commission Meeting**
- **Building Commission Meeting**
- Building Commission Meeting April 12, 2022
- **Building Commission Meeting**
- Public Forum June 13, 2022

- January 11, 2022
- February 15, 2022
- March 15, 2022
- May 10, 2022
- June 14, 2022
- June 29, 2022
- July 12, 2022
- August 9, 2022

PIERCE SCHOOL PUBLIC PROCESS







HOME | DISTRICT | SCHOOLS | STUDENTS & FAMILIES | SCHOOL COMMITTEE | HUMAN RESOURCES | BUILDING PROJECTS | STAFF PORTAL

HOME / DISTRICT Building Projects

BUILDING PROJECTS

Overview

BHS Expansion Project

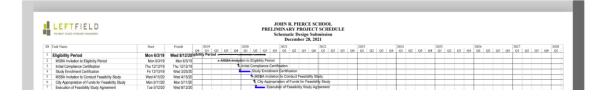
Driscoll School Building

Project

Pierce School Building

Pierce School Building Project - Overview

- School Street Traffic Study (May 23, 2022)
- Community Forum Recording (June 13, 2022) Passcode: MXi!A1Vj
- Preferred Schematic Report (Published December 23, 2021)
- Preliminary Design Program (Includes Educational Plan and Space Summary)
- Project Schedule (Updated December 2021)



FAQ'S

SUBMIT A QUESTION OR COMMENT

SUBSCRIBE TO EMAIL
UPDATES

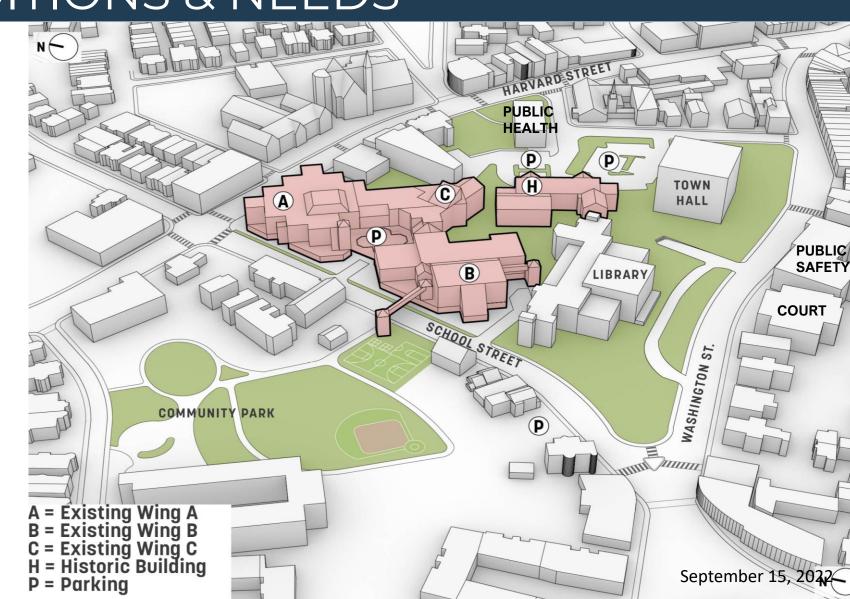
Most Recent Meeting

Project



Pierce School Today

- Situated in Brookline Village within Government Campus
- 2.5 Acre School Campus
- 725 Students in K-8 Currently
- 800 Students in PreK-8 Proposed
- All Parking below Building in Garage Structure
- School's Playground is a Town Park
- Pick-up/Drop-Off is Off Site
- Steep Topography





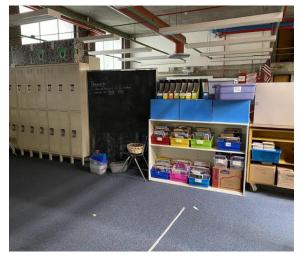
Why the Existing Pierce School Does Not Meet Educational Needs



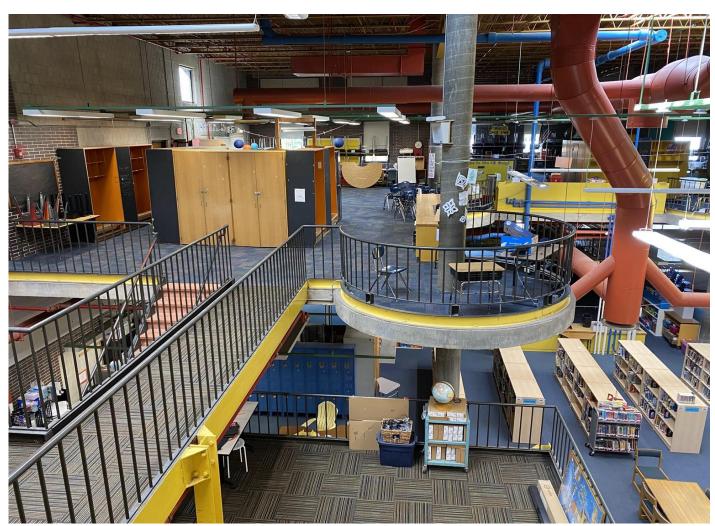
Teaching

- Constant Distractions (noise, echoes)
- Isolation from Colleagues
- Less teaching time due to transition issues



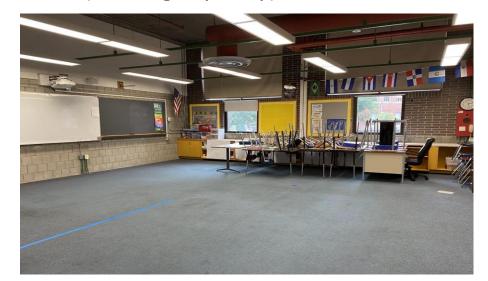






Learning

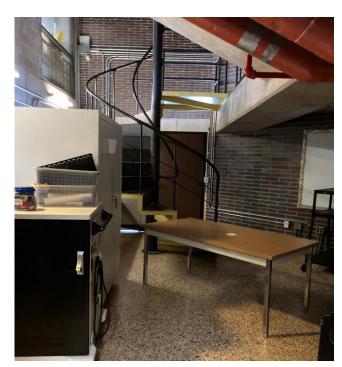
- Physical Disability Challenges
- Social/Emotional Challenges
- ADA/Civil Rights and Code Issues
- Equity
- Growth of Educational Programs (existing capacity)





Accessibility

- Physical Disability Challenges
- ADA/Civil Rights and Code Issues



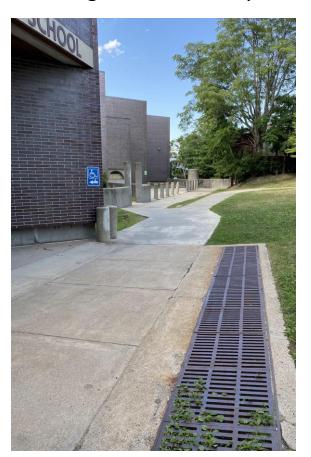




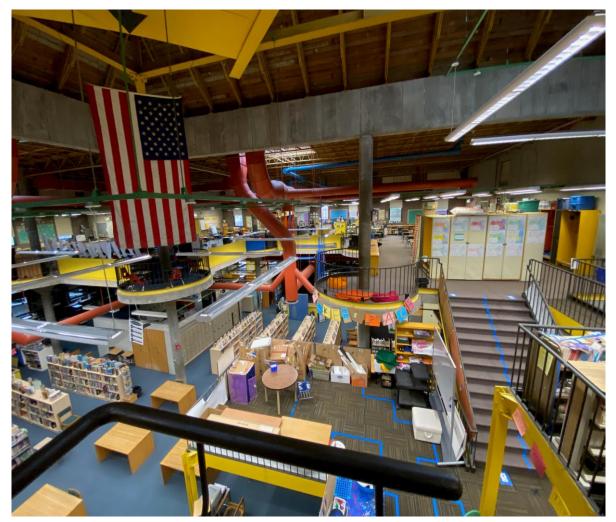


Safety

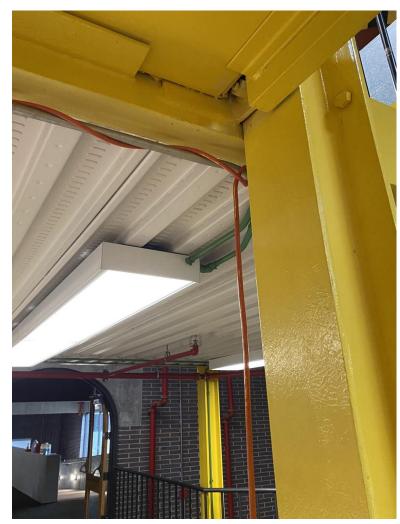
Significant Security Issues and Concerns

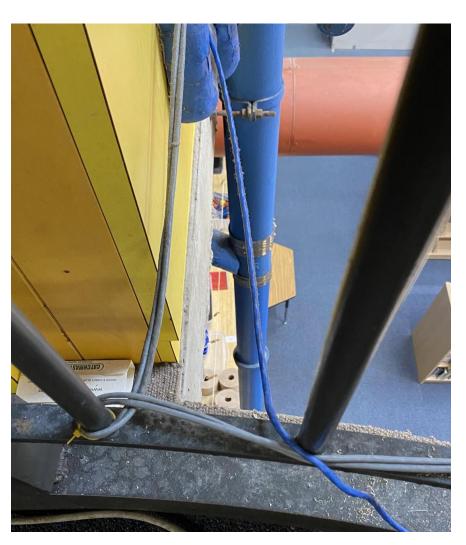










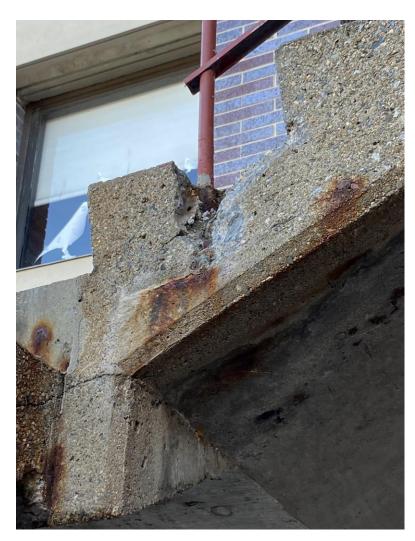


Code Issues

- Noncompliance Issues
- Hazardous Concerns



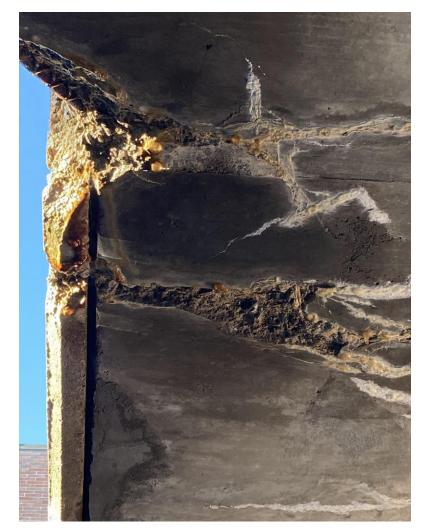




Maintenance, Repairs & Changes

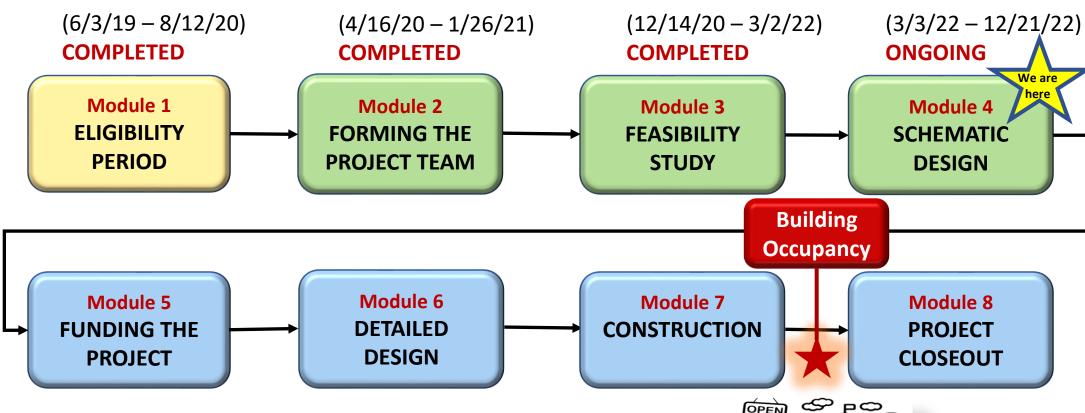
- Difficult to accomplish in an all-concrete building
- Work is costly





MSBA PROCESS FEASIBILITY STUDY / SCHEMATIC DESIGN





MSBA PROCESS

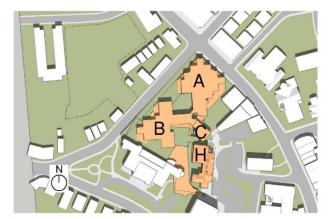
For more details about the Modules, visit:

www.massschoolbuildings.org/building/modules overview





Summary of Preliminary Design Program (PDP) Options



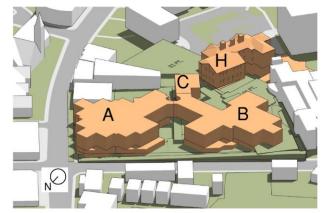
Plan View (Existing School)



Plan View (Existing School)



Axon View East (Existing School)



Axon View East (Existing School)

Option R – Code Upgrade Only

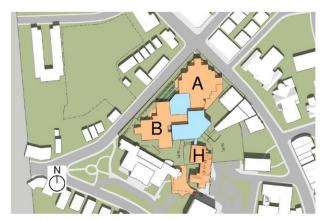
Net Square Footage too small to fit Program

Option R1 – Renovation Only

Net Square Footage too small to fit Program



Summary of Preliminary Design Program (PDP) Options



Plan View (Option 1)



Plan View (Option 2b)



Axon View East (Option 1)



Axon View East (Option 2b)

Option 1 – Add/Reno A, B & H (Demo C)

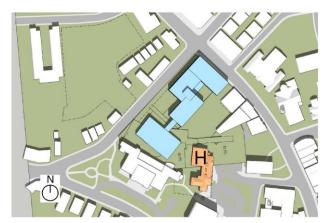
Given the tight site and quirky volumes of Unit B, it would not be possible to configure the spaces to the sizes, volumes, and spatial relationships required by the Educational Program and Initial Space Summary (ISS)

Option 2 (a&b) – Add/Reno A&H (Demo B&C)

- Due to its deep floor plate, interior daylighting would be compromised
- Increased logistical challenges
- Difficulty configuring existing building spaces to the sizes, volumes and spatial relationships required by the Educational Program and ISS



Summary of Preliminary Design Program (PDP) Options



Plan View (Option 3c)



19 Plan View (Option 4b)



Axon View East (Option 3c)



Axon View West (Option 4b)

Option 3 – New Building on Existing Site

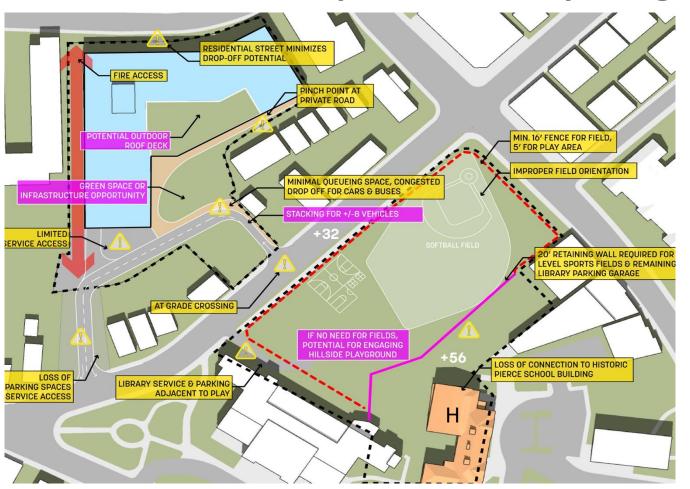
Keeping the existing garage has many complexities that are costly to build, logistically difficult and incur compromises to the final design.

Option 4 – New Building on Existing Park

- More restrictive setbacks and less height
- Scale of new building not relative to residential neighbors
- Land Swap Requires Article 97 process
- Loss of use of local park for 3-4 years
- Quality of new park: Grade change for existing (10') vs. proposed park (23')



Summary of Preliminary Design Program (PDP) Options



Option 4b – New Building on Existing Park

- Taller building required to fit program not ideal for educational purposes
- Closely abuts residences this would cause a lot of disruption during construction and would block views and sunlight after building is complete
- Article 97 Process with land swap required adding over a year to the project
- Existing 1970s building site not suitable for land swap due to grade change
- Does not provide adequate access for drop off/pick-up queuing
- Does not provide adequate service access

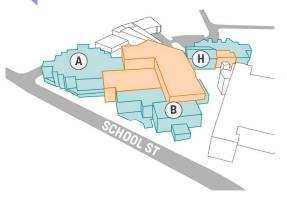


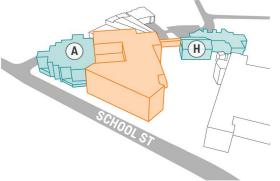
Summary of Preferred Schematic Report (PSR) Options

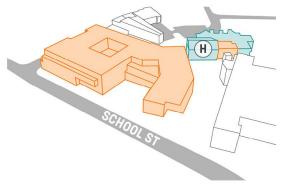
Low

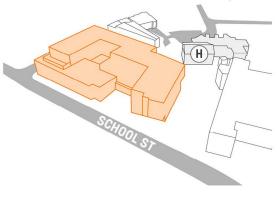
RANGE OF INTERVENTION

High









OPTION 1

- Renovate existing Units
 A + B
- Replace Unit C with a new addition
- Connect to a renovated historic 19th century school building

OPTION 2b

- Renovate existing Unit A
- Replace Units B + C with a new addition
- Connect to a renovated historic 19th century school building

OPTION 3b-H

- New building
- Connect to a renovated historic 19th century school building

OPTION 3b

- New independent building
- Historic 19th century school building would need to be renovated separately for other school uses



		_	Best	Better	Good	Fair	Poor
Notes:			5	4	3	2	1
	bset of criteria is given a score from 1-5 based on the compliance of items in the subset.						
2. Each su	bset of criteria is prioritized as a portion of 100% and that percentage is the multiplier on that subset.				DESIGN OPTIO	VS	
3. Subtota	ls are provided for each overall category.	Type	REPAIR ADD/RENO NEW				
1	y subtotals are added into a Total Score for each option.	Option	R	1	2b	3b	3b-H
			Repair/	Add/Reno	Add/Reno	New	New
		Description	Code Only	Keep A & B	Keep A	w/o historic	w/ historic
		Criteria					
Category	Criteria	Multiplier					
	Educational Program	15	1	1	2	5	5
	Ability to map the bubble diagram to the building						
	Media Commons as the Hub of the School						
_	Student Travel Time (Horizontal and Vertical Across Building)						
ogram	Indoor/Outdoor Connections	5	1	4	4	3	5
B0.	Secondary Public Entrances at Harvard and School Streets						
/Pr	Pre-K Adjacency to Main Entrance and drop off loop						
)gy	Outdoor Early Elementary Playspace Adjacent to Classrooms						
edagogy/F	Outdoor Classroooms and Gardens	5	3	2	4	5	4
pa	Outdoor space extended from Makerspace			_	_		
Ā	Amphitheater						
	Flexibility and Community Use	5	1	1	2	5	5
	Future Flexibility and Growth						
	Ability to Separate off-hours Access to Multi-purpose Room and Gym						
	Pedagogy/Program Subtotal	30	40	50	80	140	145

22



			Best	Better	Good	Fair	Poor	
Notes:		_	5	4	3	2	1	
1. Each subset of criteria is given a score from 1-5 based on the compliance of items in the subset. 2. Each subset of criteria is prioritized as a portion of 100% and that percentage is the multiplier on that subset.			DESIGN OPTIONS					
3. Subtota	als are provided for each overall category.	Туре	REPAIR	ADI	NEW			
4. Catego	ry subtotals are added into a Total Score for each option.	Option	R	1	2b	3b	3b-H	
		Description	Repair/ Code Only	Add/Reno Keep A & B	Add/Reno Keep A	New w/o historic	New w/ historic	
Category	Criteria	Criteria Multiplier						
	Costs and Risks	15	2	2	2	5	5	
	Total Project Costs (including historic bulding renovation) Constructibility and Risk							
	Other Town-wide Considerations	5	5	5	5	1	5	
acts	Maintain historic building as part of the school							
μ	Urban Design and Planning	5	1	1	4	5	4	
Town/Neighborhood Impacts	Pedestrian Permeability Through Site Green Space Continuity Through Site Gathering Space at School Street Shading at Main Entry Universal Design Outdoor thermal comfort							
, w	Parking and Service Access	5	5	5	2	5	5	
To	Garage Parking Spaces Relative to Existing Service Access							
	Site Safety	5	2	2	5	5	4	
	Traffic and School St. Crossing Safety Off Hours Site Security							
	Town/Neighborhood Impacts Subtotal	35	95	95	110	155	165	



			Best	Better	Good	Fair	Poor	
Notes:		_	5	4	3	2	1	
1. Each su	1. Each subset of criteria is given a score from 1-5 based on the compliance of items in the subset. 2. Each subset of criteria is prioritized as a portion of 100% and that percentage is the multiplier on that subset.		DESIGN OPTIONS					
3. Subtot	als are provided for each overall category.	Туре	REPAIR	ADD	ADD/RENO NEW			
4. Catego	ry subtotals are added into a Total Score for each option.	Option	R	1	2b	3b	3b-H	
		Description	Repair/ Code Only	Add/Reno Keep A & B	Add/Reno Keep A	New w/o historic	New w/ historic	
Category	Criteria	Criteria Multiplier						
	Building Interior	10	2	1	1	4	4	
	Organizational Clarity and Wayfinding Space Efficiency Universal Accessibility (All options are MAAB/ADA compliant) 4 Story Experience							
	Building Exterior	5	3	3	3	4	4	
npacts	Massing Along School and Harvard Streets Improved Architectural and Street Level Experience							
=	Health and Wellness	5	1	1	2	4	4	
Architectural Impacts	Indoor air quality, ventilation and filtration Healthy building materials and acoustics Maximizes Daylighting and Views							
Arc	Sustainability - Carbon	5	5	5	3	4	4	
	Life Cycle Embodied Carbon (with Historic Building included in both options)							
	Sustainability - Energy	10	1	2	3	5	5	
	Building envelope Passive strategies - orientation and massing Ground source heat pumps/geoexchange Photovoltaic Energy Generation							
	Architectural Impact Subtota	35	75	75	80	150	150	



Notes:								
1. Each subset of criteria is given a score from 1-5 based on the compliance of items in the subset.								
2. Each subset of criteria is prioritized as a portion of 100% and that percentage is the multiplier on that subset.		DESIGN OPTIONS						
3. Subtotals are provided for each overall category.		REPAIR ADD/RENO NEW			NEW			
4. Category subtotals are added into a Total Score for each option.	Option	R	1	2b	3b	3b-H		
		Repair/	Add/Reno	Add/Reno	New	New		
	Description	Code Only	Keep A & B	Keep A	w/o historic	w/ historic		
	Criteria							
Category Criteria	Multiplier		_		_	_		
Total Score	100	210	220	270	445	460		



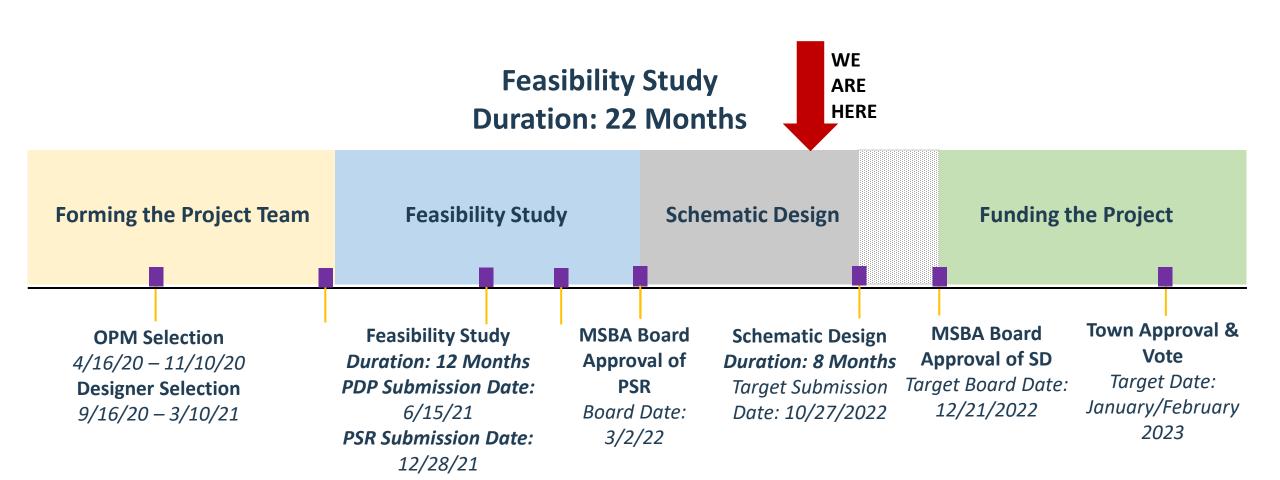
MSBA PROCESS PRICING MATRIX AT PREFERRED SCHEMATIC



Option (Description)	Total Gross Square Feet	Square Feet of Renovated Space (\$*/SF)	Square Feet of New Construction (\$*/SF)	Site, Building Takedown, Haz Mat Etc. (\$*)	Estimated Total Construction** (\$*)	Estimated Total Project Costs (\$)
Option R - Code Upgrade Garage Reno Only:	226,072 sf	226,072 sf	- sf	\$ 6,727,467	\$ 86,498,489	\$ 137,696,498
78,277sf / \$3,592,349*		\$ 352.86 \$/sf	\$ - \$/sf		\$ 382.61 \$/sf	
Option 1 - Add / Reno Garage Reno: 66,004sf / \$4,080,384*	301,445 sf	178,294 sf	123,151 sf	\$ 14,439,070	\$143,572,028	\$ 210,499,587
New Garage: 27,387sf / \$5,281,263*		\$ 363.51 /sf	\$522.29 \$/sf		\$ 476.28 \$/sf	
Option 2b - Add / Reno Garage Reno: 48,893sf / \$3,022,566*	298,825 sf	128,294 sf	170,531 sf	\$ 16,060,900	\$147,332,597	\$ 215,618,699
New Garage: 32,378sf / \$6,243,779*		\$ 304.78 /sf	\$540.49 \$/sf		\$ 493.04 \$/sf	
Option 3b-H*** - Add / Reno Garage Reno: 24,646sf / \$1,523,622*	255,363 sf	55,122 sf	200,241 sf	\$ 18,251,936	\$150,518,572	\$ 220,000,000
New Garage: 47,228sf / \$8,340,771*		\$ 329.39 /sf	\$ 569.86 \$/sf		\$ 589.43 \$/sf	
Option 3b - New Construction Garage Reno: 25,911sf / \$1,601,825*	203,181 sf	25,911 sf	177,270 sf	17,553,680	\$139,269,845	\$ 219,966,521
New Garage: 46,912sf / \$9,071,778*		\$ 156.43 /sf	\$ 663.75 \$/sf		\$ 685.45 \$/sf	

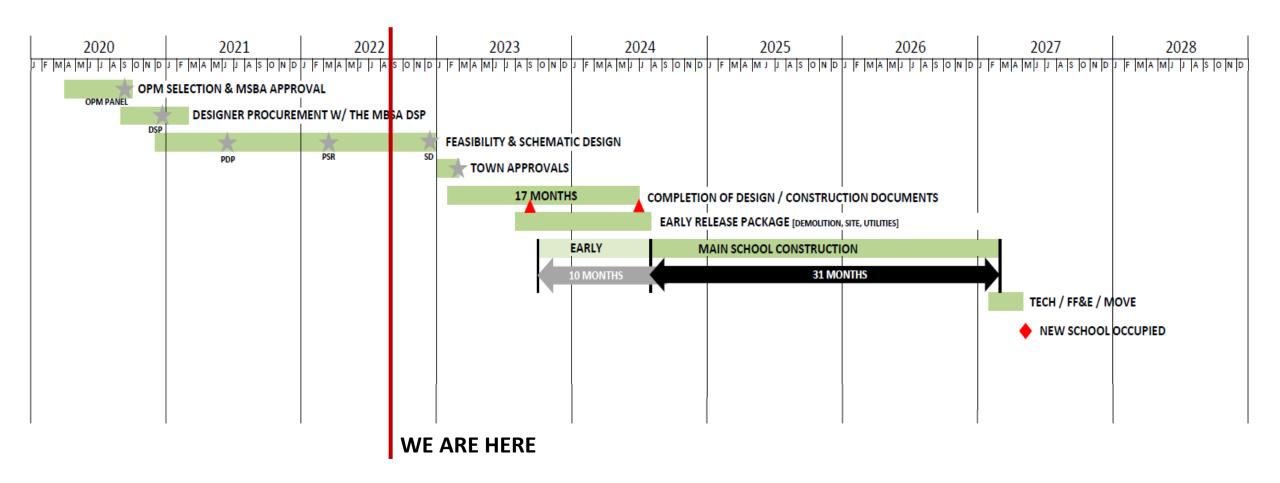
MSBA PROCESS CURRENT SCHEDULE





MSBA PROCESS CURRENT & PROPOSED SCHEDULE





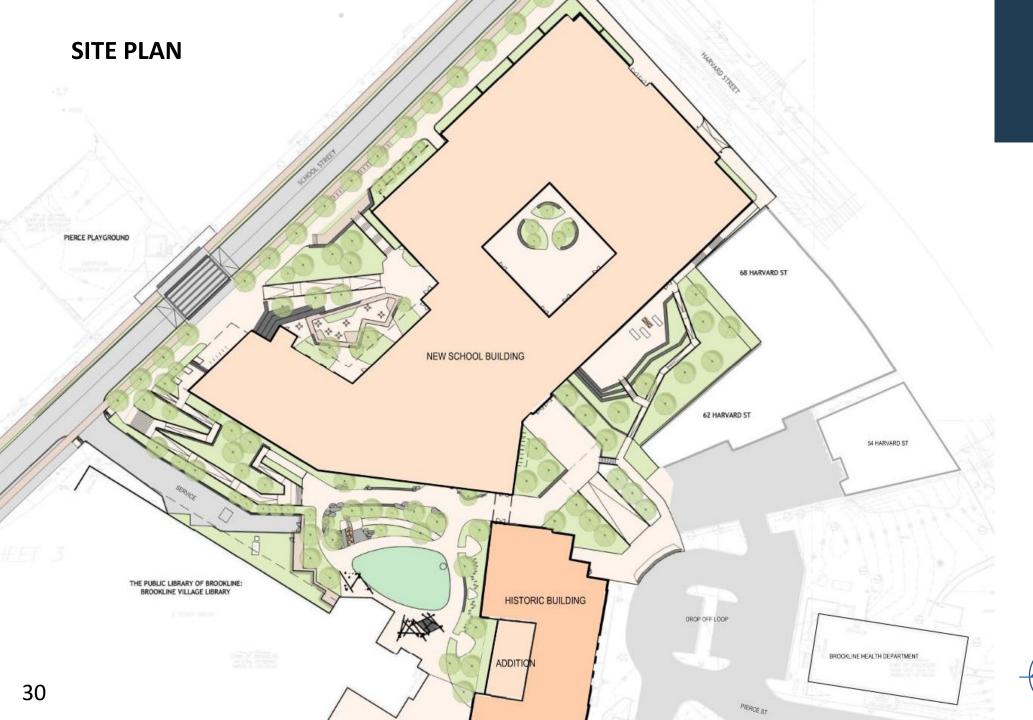
DESIGN UPDATE REVISED FLOOR PLANS





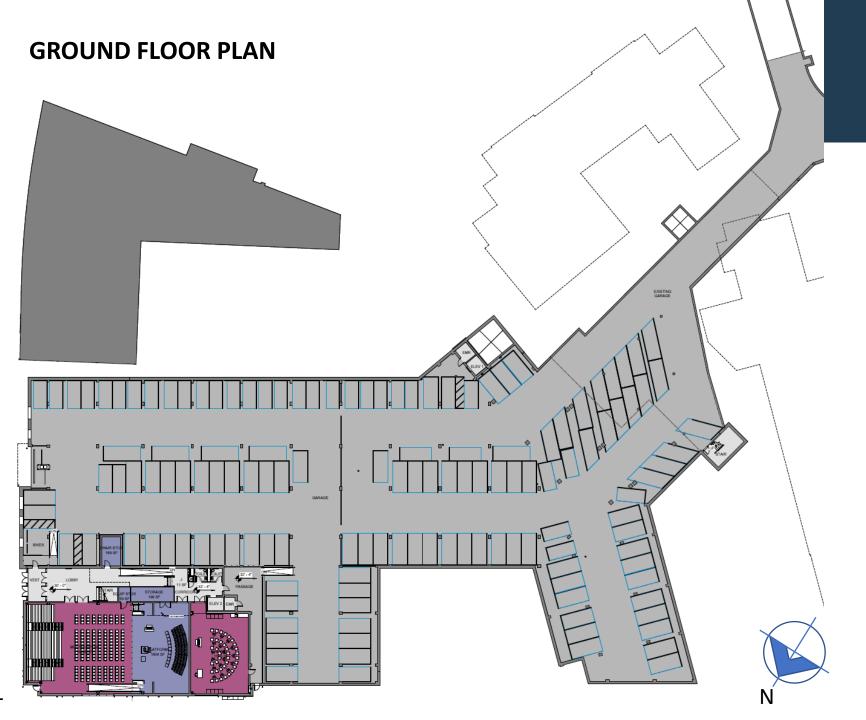


Better design, together.











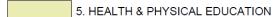
50 SCHOOL STREET BROOKLINE, MA 02445



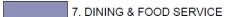










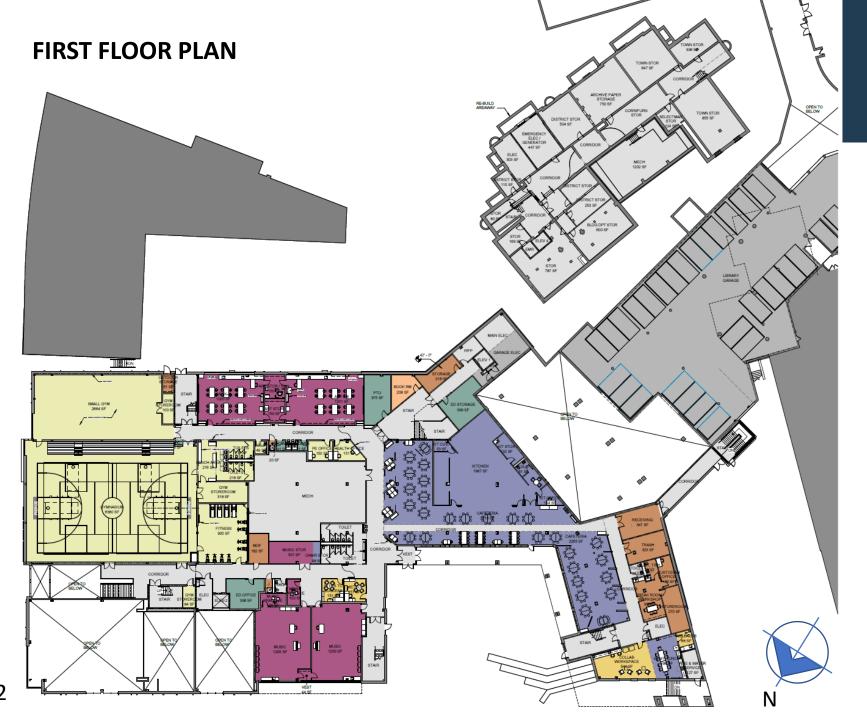




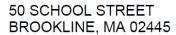




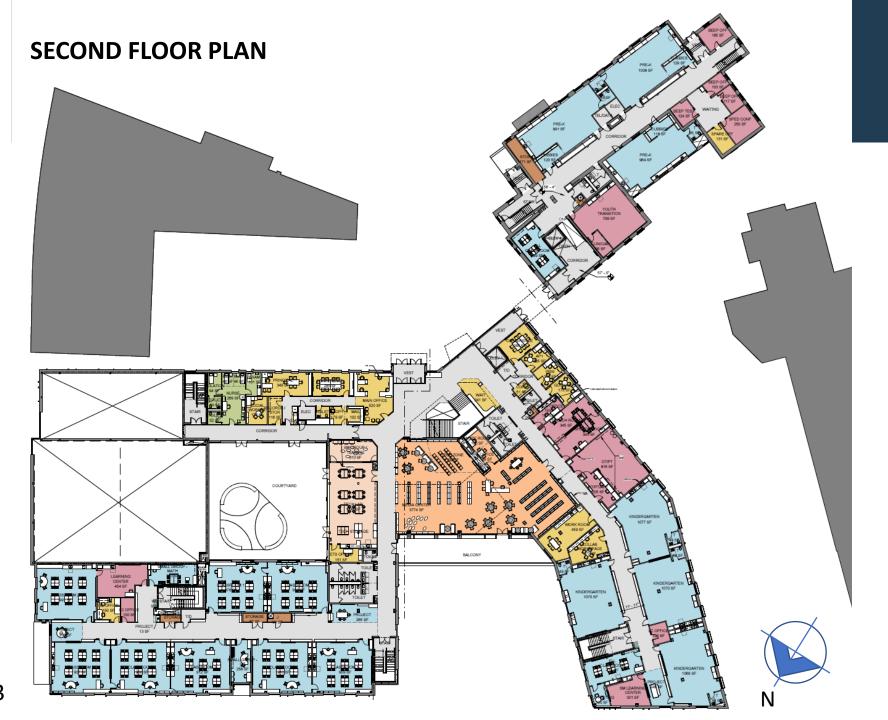
14. NON-PROGRAMED SPACE



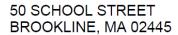














8. MEDICAL

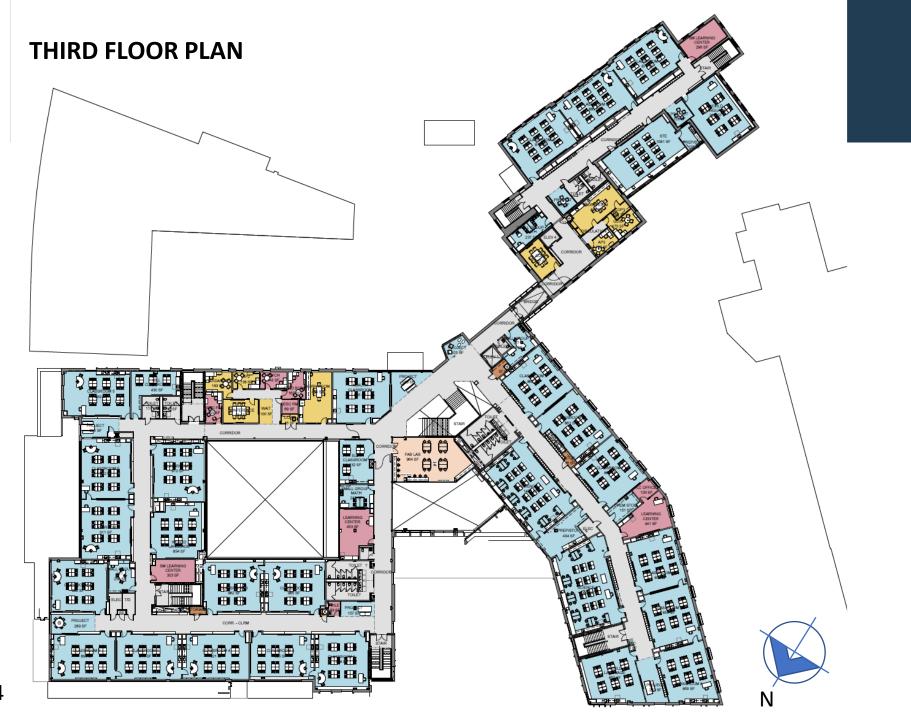
9. ADMINISTRATION & GUIDANCE

10. CUSTODIAL & MAINTENANCE

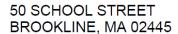
11. OTHER

13. PARKING EXCLUDED

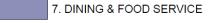
14. NON-PROGRAMED SPACE























DESIGN UPDATE REVISED RENDERINGS







Better design, together.













Pierce Main Entrance September 15, 2022





PROJECT COSTS SCHEMATIC DESIGN ESTIMATE



John R.	Pierce School: Brookline, MA															
Schema	tic Design Cost Estimate Comparison															6/10/2022
		GSF		262,787		G	SF :	262,787		GSF		262,787				
Based on Cost Estimates from 6/9/22		OPM Estimator (PM&C)				ARCH Estimator (AM Fogarty)		Consigli Construction		SD Estimate Variance (high - low)						
		Т	otal Amount	Cost/SF			Total Amount	Cost/SF		Total Amount		Cost/SF		Total Amount		Cost/SF
02	Existing Conditions	\$	12,295,167	\$ 4	16.79	\$	14,068,793	\$ 53.5	54	\$ 13,591,3	26	\$ 51.72	\$	1,296,159	\$	4.93
03	Concrete	\$	11,020,562	\$ 4	1.94	\$	11,329,730	\$ 43.1	11	\$ 11,574,4	28	\$ 44.04	\$	553,866	\$	2.11
04	Masonry	\$	3,754,318	\$ 1	14.29	\$	5,203,389	\$ 19.8	30	\$ 4,086,8	72	\$ 15.55	\$	332,554	\$	1.27
05	Metals	\$	10,405,741	\$ 3	39.60	\$	11,826,882	\$ 45.0	01	\$ 12,615,3	29	\$ 48.01	\$	2,209,588	\$	8.41
06	Woods, Plastics, and Composites	\$	1,852,743	\$	7.05	\$	2,408,373	\$ 9.1	16	\$ 2,928,1	.07	\$ 11.14	\$	1,075,364	\$	4.09
07	Thermal and Moisture Protection	\$	8,453,471	\$ 3	32.17	\$	8,486,677	\$ 32.2	29	\$ 7,333,5	82	\$ 27.91	\$	1,119,889	\$	4.26
08	Openings	\$	6,747,090	\$ 2	25.68	\$	6,498,726	\$ 24.7	73	\$ 7,041,1	24	\$ 26.79	\$	294,034	\$	1.12
09	Finishes	\$	11,906,519	\$ 4	15.31	\$	11,750,485	\$ 44.7	71	\$ 10,715,7	67	\$ 40.78	\$	1,190,752	\$	4.53
10	Specialties	\$	687,986	\$	2.62	\$			55	\$ 819,1	42	\$ 3.12	\$	131,156	\$	0.50
11	Equipment	\$	1,063,544	\$	4.05	\$	1,220,032	\$ 4.6	54	\$ 2,388,3	17	\$ 9.09	\$	1,324,773	\$	5.04
12	Furnishings	\$	2,621,382	\$	9.98	\$	1,992,108	\$ 7.5	58	\$ 2,263,0	88	\$ 8.61	\$	358,294	\$	1.36
13	Special Construction	\$	50,000	\$	0.19	\$	-	\$ -	_	\$ 228,0	00	\$ 0.87	\$	178,000	\$	0.68
14	Conveying Systems	\$	645,000	\$	2.45	\$	633,000	\$ 2.4	11	\$ 737,5	00	\$ 2.81	\$	92,500	\$	0.35
21, 22, 23	3 Mechanical	\$	19,912,125	\$	75.77	\$	19,939,450	\$ 75.8	38	\$ 19,428,8	87	\$ 73.93	\$	483,238	\$	1.84
26	Electrical	Ś	17,394,431	\$ 6	6.19	Ś	15,894,378	\$ 60.4	18	\$ 17,037,8	_	\$ 64.84	Ś	356,540	Ś	1.36
31	Earthwork	\$	8,081,768		30.75	\$, ,	•	_	\$ 7,771,0	_	\$ 29.57	Ś		Ś	1.18
32	Exterior Improvements	\$	5,232,432		19.91	\$, ,		_	\$ 4,406,5	_	\$ 16.77	Ś	,	Ś	3.14
33	Utilities	Ś	837,548		3.19	Ś				\$ 1,902,1		\$ 7.24	Ś	1,064,566	Ś	4.05
INCL.	Geothermal Under Building	\$	4,704,573		17.90	\$, ,	<u> </u>	_	\$ 7,337,9	_	\$ 27.92	\$, ,	-	14.28
	Geothermal In Park/Playground	Ś	3,434,128	*	13.07	Ś	, ,	•		\$ 6,694,0		\$ 25.47	Ś	4,252,955		16.18
	RECT CONSTRUCTION COSTS	\$	130,835,775	•	97.88	\$, ,	•	_	\$ 134,207,0	_	\$ 510.71	\$			12.83
	Design & Estimating Contingency	Ś	12,613,120	\$ 4	18.00	Ś	12,632,912	\$ 48.0	17	\$ 12,686,9	13	\$ 48,28	Ś	73,793	Ś	0.28
	General Conditions	Ś	10,478,617		39.87	\$, ,		_	\$ 10,478,6	_	\$ 39.87	Ś	,	Ś	
	General Requirements	\$			14.46	Ś	, ,	\$ 15.6	_	\$ 4,128,3	_	\$ 15.71	Ś	328,600	Ś	1.25
	Insurances	Ś	2,763,024	*	10.51	Ś	, ,	•	_	\$ 2,906,2		\$ 11.06	\$,	Ś	0.54
	Bonds	Ś	1,847,577		7.03	Ś	, ,	·	_	\$ 1,222,3	_	\$ 4.65	Ś	,	Ś	2.67
	CM Fee (Overhead & Profit)	Ś		•	13.10	Ś	, ,	\$ 13.5	_	\$ 3,627,0	_	\$ 13.80	5	183,379	7	0.70
	CM GMP Contingency	\$	4,304,542	•	16.38	\$	-//	•	_	\$ 4,334,7	_	\$ 16.50	\$,	-	0.17
	SDI / Sub Bond Pool	Ś	1,304,657		4.96	Ś	, ,		_	\$ 1,776,1	_	\$ 6.76	Ś	,	_	2.26
	Escalation	\$		•	0.40	\$, ,	\$ 58.1	_	\$ 13,321,2		\$ 50.69	\$,		7.77
TOTAL EST	TIMATED CONSTRUCTION COSTS	\$	184,634,424	\$ 70	02.60	\$	190,329,944	\$ 724.2	27	\$ 188,688,5	62	\$ 718.03	\$	5,695,520	\$	21.67
Soft Costs	Calculated at 25%	\$	46,158,606	\$ 17	75.65	\$	47,582,486	\$ 181.0	07	\$ 47,172,1	41	\$ 179.51	\$	1,423,880	\$	5.42
	ct Management Costs	Ś			5.71	Ś	, ,	\$ 5.7	71	\$ 1,500.0	_	\$ 5.71	\$		-	
Relocation		\$	10,000,000		38.05	\$		-		\$ 10,000,0		\$ 38.05	\$			
TOTAL EST	TIMATED PROJECT COSTS	\$	242,293,030	\$ 92	22.01	\$	249,412,430	\$ 949.1	10	\$ 247,360,7	03	\$ 941.30	\$	7,119,400	\$	27.09

SCHEMATIC DESIGN
ESTIMATE THAT
PROMPTED VALUE
ENGINEERING:

\$247,360,703

Factors for Increase in Cost

- More information on site and logistics of construction raised costs
- Significantly higher than typical HAZMAT costs estimated
- Higher than expected inflation since Preferred Schematic Report estimate

PROJECT COSTS PROPOSED VALUE ENGINEERING



Criteria for Accepting Value Engineering (VE)

VE was only accepted if it met the following criteria:

- No Impact to the Educational Plan for the School
- No Compromise to the Fossil Fuel Free Status and Sustainability of the School
- No Decrease in Durability or Maintainability of Building Materials and Finishes
- Maintained the Function, Quality and Aesthetics of the School

PROJECT COSTS PROPOSED VALUE ENGINEERING



Pierce School

Brookline, MA

Schematic Estimate - Value Management

	Item/Description	Total Amount	Grand Total Amount	Category
A33 Reduce Wall Covering Allowance from \$200,000 to \$100,000 (100,000) (133,298) Allowance H201 Reduce Asbestos Unit Cost to Subcontractor Pricing (5,215,990) (6,952,788) Allowance L04 Reduce play equipment allowance by 20%. AVM09 Reduce Play ground Equipment Allowance to \$300k (487,500) (649,826) Allowance Subtotal Allowance Reduction (6,284,089) (8,376,539) (649,826) Allowance Subtotal Allowance Reduction (6,284,089) (8,376,539) (350,500) (480,538) Façade A10 Changes to Stair 7 Enclosure (32,297) (43,051) Façade A24 Replace metal soffits ESA-01 and ESA-02 with exterior stucco (129,505) (172,627) Façade Subtotal Façade (522,302) (696,216) (500,600) (100,60	56 Reduce Lighting Allowance at School to \$10.00/sf	(143,099)	(190,748)	0 ,
LO4 Reduce play equipment allowance by 20%. AVM09 Reduce Playground Equipment Allowance to \$300k AVM09 Reduce Playground Equipment Allowance to \$300k Subtotal Allowance Reduction (\$6,284,089) (\$376,539) (\$480,538) Façade A10 Changes to Stair 7 Enclosure (\$32,297) (\$43,051) Façade A24 Replace metal soffits ESA-01 and ESA-02 with exterior stucco Subtotal Façade (\$22,302) (\$696,216) Subtotal Façade 90 Leave Garage Walls, Columns and Ceiling Unpainted (\$170,730) (\$277,579) Garage 13 Eliminate Tunnel to Historic Building (\$750,090) (\$999,852) Garage A24 Meduce New Concrete Parking Structure by Moving Demo Line AVM10A Reduce New Concrete Parking Structure by Moving Demo Line AVM10A Beliminate Extension to Library Parking AVM10B Eliminate Scope at Existing Library Parking AVM10B Eliminate Scope at Existing Library Parking AUS Subtotal Landscape Subtotal Landscape (\$76,750) (\$102,306) Landscape A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors A15 Reduce rearrazeo flooring area by 4,525sf, replace with linoleum A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (\$104,175) (\$138,631) Material AVM02 Double Glazed CW in Lieu of Triple (\$203,300) (\$27,999) Material AVM03 Change \$2,623 sf of CW to Metal Panels AVM03 Change \$2,623 sf of CW to Metal Panels AVM03 Change \$2,623 sf of CW to Metal Panels AVM08 Change ACP-1 and ACP-2 to 2x2 ACT		(100,000)	(133,298)	Allowance
AVM09 Reduce Playground Equipment Allowance to \$300k (887,500) (649,826) Allowance Subtotal Allowance Reduction (6,284,089) (8,376,539) (8376,539) (8480,538) Façade A10 Changes to Stair 7 Enclosure (322,97) (43,051) Façade A24 Replace metal soffits ESA-01 and ESA-02 with exterior stucco (129,505) (172,627) Façade A24 Replace metal soffits ESA-01 and ESA-02 with exterior stucco (129,505) (172,627) Façade O5 Reduce fireproofing and painting at existing garage (139,170) (185,510) Garage Garage Walls, Columns and Ceiling Unpainted (170,730) (227,579) Garage I3 Eliminate Tunnel to Historic Building (750,090) (999,852) Garage A02 Eliminate waterproofing of existing garage roof (150,400) (200,480) Garage A13 Delete concrete openings and exterior metal grilles at existing garage (76,500) (101,973) Garage AVM108 Eliminate Extension to Library Parking (412,691) (550,107) Garage AVM108 Eliminate Extension to Library Parking (283,014) (377,251) Garage AVM10E Eliminate Extension to Library Parking (283,014) (377,251) Garage AVM10E Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape Subtotal Landscape (76,500) (102,306) Landscape A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute (344,500) (459,210) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A26 Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material L02 Change all impermiable pavers (197,400) (263,129) Material AVM03 Change 400 First CW Metal Panel (82,739) (102,300) (78,992) Material AVM03 Change 2,623 sf of CW to Metal Panel (82,739) (110,289) (110,289) Material AVM03 Change 2,623 sf of CW to Metal Panel (82,739) (110,286) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT	HZ01 Reduce Asbestos Unit Cost to Subcontractor Pricing	(5,215,990)	(6,952,788)	Allowance
Subtotal Allowance Reduction (6,284,089) (8,376,539) 03 Staging at Brick Only (360,500) (480,538) Façade A10 Changes to Stair 7 Enclosure (32,297) (43,051) Façade A24 Replace metal soffits ESA-01 and ESA-02 with exterior stucco (129,505) (172,627) Façade Subtotal Façade (522,302) (696,216) 05 Reduce fireproofing and painting at existing garage (139,170) (185,510) Garage 09 Leave Garage Walls, Columns and Ceiling Unpainted (170,730) (227,579) Garage 13 Eliminate Tunnel to Historic Building (750,090) (999,852) Garage A02 Eliminate waterproofing of existing garage roof (150,400) (200,480) Garage A13 Delete concrete openings and exterior metal grilles at existing garage (76,500) (101,973) Garage AVM10A Reduce New Concrete Parking Structure by Moving Demo Line (226,327) (301,689) Garage AVM10B Eliminate Extension to Library Parking (412,691) (550,107) Garage AVM10B Eliminate Extension to Library Parking (283,014) (377,251) Garage AVM10C Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage AVM10E Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape (76,750) (102,306) A35 Substitute special sprinklers at rated interior glass in lieu of 90 minute (344,500) (459,210) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03 Change 52% of CW to Storefront and Panels (382,739) (110,289) Material AVM03 Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM03 Change 2,623 sf of CW to Metal Panel	L04 Reduce play equipment allowance by 20%.	(337,500)	(449,879)	Allowance
03 Staging at Brick Only (360,500) (480,538) Façade A10 Changes to Stair 7 Enclosure (32,297) (43,051) Façade A24 Replace metal soffits ESA-01 and ESA-02 with exterior stucco (129,505) (177,627) Façade 05 Reduce fireproofing and painting at existing garage (522,302) (696,216) (696,216) 05 Reduce fireproofing and painting at existing garage (139,170) (185,510) Garage 09 Leave Garage Walls, Columns and Ceiling Unpainted (170,730) (227,579) Garage 13 Eliminate Tunnel to Historic Building (750,090) (999,852) Garage A02 Eliminate waterproofing of existing garage roof (150,400) (200,480) Garage A13 Delete concrete openings and exterior metal grilles at existing garage (76,500) (101,973) Garage AVM10A Reduce New Concrete Parking Structure by Moving Demo Line (226,327) (301,689) Garage AVM10B Eliminate Extension to Library Parking (412,691) (550,107) Garage AVM10C Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage AVM10E Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape	AVM09 Reduce Playground Equipment Allowance to \$300k	(487,500)	(649,826)	Allowance
A10 Changes to Stair 7 Enclosure A24 Replace metal soffits ESA-01 and ESA-02 with exterior stucco Subtotal Façade (522,302) (696,216) 05 Reduce fireproofing and painting at existing garage (139,170) (185,510) (185,510) (185,510) (186,310) (187,579) (187,627) (188,510) (188,510) (199,852) (101,973) (10	Subtotal Allowance Reduction	(6,284,089)	(8,376,539)	
A24 Replace metal soffits ESA-01 and ESA-02 with exterior stucco Subtotal Façade (522,302) (696,216) 05 Reduce fireproofing and painting at existing garage (139,170) (185,510) Garage 09 Leave Garage Walls, Columns and Ceiling Unpainted (170,730) (227,579) Garage 13 Eliminate Tunnel to Historic Building (750,090) (999,852) Garage A02 Eliminate waterproofing of existing garage roof (150,400) (200,480) Garage A13 Delete concrete openings and exterior metal grilles at existing garage AVM10A Reduce New Concrete Parking Structure by Moving Demo Line (226,327) (301,689) Garage AVM10B Eliminate Extension to Library Parking (412,691) (550,107) Garage AVM10C Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage Subtotal Garage (76,750) (102,306) Landscape Subtotal Landscape (76,750) (102,306) A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute (344,500) (459,210) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (400,000) (200,480	03 Staging at Brick Only	(360,500)	(480,538)	Façade
Subtotal Façade (522,302) (696,216) 05 Reduce fireproofing and painting at existing garage (139,170) (185,510) Garage (19,000) (19,000) (227,579) Garage (170,730) (227,579) Garage (170,730) (227,579) Garage (150,000) (150,000	A10 Changes to Stair 7 Enclosure	(32,297)	(43,051)	Façade
05 Reduce fireproofing and painting at existing garage (139,170) (185,510) Garage 09 Leave Garage Walls, Columns and Ceiling Unpainted (170,730) (227,579) Garage 13 Eliminate Tunnel to Historic Building (750,090) (999,852) Garage A02 Eliminate waterproofing of existing garage roof (150,400) (200,480) Garage A13 Delete concrete openings and exterior metal grilles at existing garage (76,500) (101,973) Garage AVM10A Reduce New Concrete Parking Structure by Moving Demo Line (226,327) (301,689) Garage AVM10B Eliminate Extension to Library Parking (412,691) (550,107) Garage AVM10C Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage Subtotal Garage (2,208,922) (2,944,441) (11 Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape Substitute special sprinklers at rated interior glass in lieu of 90 minute (344,500) (459,210) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material A40 Security Film in Lieu of Security Glass (60,000) (263,129) Material AVM03 Change 2,623 sf of CW to Storefront and Panels (377,993) (503,855) Material AVM03 Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM03 Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM03 Change 2,623 sf of CW to Metal Panel	A24 Replace metal soffits ESA-01 and ESA-02 with exterior stucco	(129,505)	(172,627)	Façade
09 Leave Garage Walls, Columns and Ceiling Unpainted (170,730) (227,579) Garage 13 Eliminate Tunnel to Historic Building (750,090) (999,852) Garage A02 Eliminate waterproofing of existing garage roof (150,400) (200,480) Garage A13 Delete concrete openings and exterior metal grilles at existing garage (76,500) (101,973) Garage AVM10A Reduce New Concrete Parking Structure by Moving Demo Line (226,327) (301,689) Garage AVM10B Eliminate Extension to Library Parking (412,691) (550,107) Garage AVM10E Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage AVM10C Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage Subtotal Garage (2,028,922) (2,944,441) 11 Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape Subtotal Landscape (76,750) (102,306)	Subtotal Façade	(522,302)	(696,216)	
13 Eliminate Tunnel to Historic Building (750,090) (999,852) Garage A02 Eliminate waterproofing of existing garage roof (150,400) (200,480) Garage A13 Delete concrete openings and exterior metal grilles at existing garage (76,500) (101,973) Garage AVM10A Reduce New Concrete Parking Structure by Moving Demo Line (226,327) (301,689) Garage AVM10B Eliminate Extension to Library Parking (412,691) (550,107) Garage AVM10E Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage AVM10C Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage Subtotal Garage (2,08,922) (2,944,441) 11 Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape (76,750) (102,306) Landscape (76,750) (102,306) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material L02 Change all impermiable pavers (197,400) (263,129) Material L02 Change all impermiable pavers (197,400) (263,129) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03 Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM03 Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT	05 Reduce fireproofing and painting at existing garage	(139,170)	(185,510)	Garage
A02 Eliminate waterproofing of existing garage roof (150,400) (200,480) Garage A13 Delete concrete openings and exterior metal grilles at existing garage (76,500) (101,973) Garage AVM10A Reduce New Concrete Parking Structure by Moving Demo Line (226,327) (301,689) Garage AVM10B Eliminate Extension to Library Parking (412,691) (550,107) Garage AVM10B Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage Subtotal Garage (2,208,922) (2,944,441) 11 Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape (76,750) (102,306) Material Subtotal Landscape (76,750) (102,306) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material L02 Change all impermiable pavers (197,400) (263,129) Material L02 Change all impermiable pavers (197,400) (263,129) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (82,739) (110,289) Material AVM03 Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT	09 Leave Garage Walls, Columns and Ceiling Unpainted	(170,730)	(227,579)	Garage
A13 Delete concrete openings and exterior metal grilles at existing garage AVM10A Reduce New Concrete Parking Structure by Moving Demo Line AVM10B Eliminate Extension to Library Parking AVM10C Eliminate Scope at Existing Library Parking AVM10C Eliminate Scope at Existing Library Parking AVM10C Eliminate Precast Benches at Courtyard Bubtotal Garage Subtotal Landscape A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum A40 Security Film in Lieu of Security Glass Coccurrence of the park	13 Eliminate Tunnel to Historic Building	(750,090)	(999,852)	Garage
AVM10A Reduce New Concrete Parking Structure by Moving Demo Line (226,327) (301,689) Garage AVM10B Eliminate Extension to Library Parking (412,691) (550,107) Garage AVM10C Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage Subtotal Garage (2,208,922) (2,944,441) 11 Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape (76,750) (102,306) A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute (344,500) (459,210) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material L02 Change all impermiable pavers (197,400) (263,129) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 5,2% of CW to Storefront and Panels (377,993) (503,855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM03A Change ACP-1 and ACP-2 to 2x2 ACT	A02 Eliminate waterproofing of existing garage roof	(150,400)	(200,480)	Garage
AVM10B Eliminate Extension to Library Parking (412,691) (550,107) Garage AVM10C Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage Subtotal Garage (2,208,922) (2,944,441) 11 Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape Subtotal Landscape (76,750) (102,306) (102,306) A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute (344,500) (459,210) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material L02 Change all impermiable pavers (197,400) (263,129) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM03 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	A13 Delete concrete openings and exterior metal grilles at existing garage	(76,500)	(101,973)	Garage
AVM10C Eliminate Scope at Existing Library Parking (283,014) (377,251) Garage Subtotal Garage (2,208,922) (2,944,441) 11 Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape Subtotal Landscape (76,750) (102,306) A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute (344,500) (459,210) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material L02 Change all impermiable pavers (197,400) (263,129) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	AVM10A Reduce New Concrete Parking Structure by Moving Demo Line	(226,327)	(301,689)	Garage
Subtotal Garage (2,208,922) (2,944,441) 11 Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape Subtotal Landscape (76,750) (102,306) A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute (344,500) (459,210) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material L02 Change all impermiable pavers (197,400) (263,129) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (82,739) (110,289) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	AVM10B Eliminate Extension to Library Parking	(412,691)	(550,107)	Garage
11 Eliminate Precast Benches at Courtyard (76,750) (102,306) Landscape Subtotal Landscape (76,750) (102,306) A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute (344,500) (459,210) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material L02 Change all impermiable pavers (197,400) (263,129) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	AVM10C Eliminate Scope at Existing Library Parking	(283,014)	(377,251)	Garage
Subtotal Landscape (76,750) (102,306) A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute (344,500) (459,210) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material L02 Change all impermiable pavers (197,400) (263,129) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	Subtotal Garage	(2,208,922)	(2,944,441)	
A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute (344,500) (459,210) Material A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors (104,175) (138,863) Material A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material L02 Change all impermiable pavers (197,400) (263,129) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	11 Eliminate Precast Benches at Courtyard	(76,750)	(102,306)	Landscape
A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material L02 Change all impermiable pavers (197,400) (263,129) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	Subtotal Landscape	(76,750)	(102,306)	
A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum (147,517) (196,636) Material A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material L02 Change all impermiable pavers (197,400) (263,129) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	A05 Substitute special sprinklers at rated interior glass in lieu of 90 minute	(344,500)	(459,210)	Material
A40 Security Film in Lieu of Security Glass (60,000) (79,979) Material L02 Change all impermiable pavers (197,400) (263,129) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03A Change 2,623 sfor CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	A25 Change 67% of Interior Storefront to Hollow Metal with Wood Doors	(104,175)	(138,863)	Material
L02 Change all impermiable pavers (197,400) (263,129) Material A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	A32b Reduce terrazzo flooring area by 4,525sf, replace with linoleum	(147,517)	(196,636)	Material
A15 Replace intumescent paint at exposed beams with hd spray fireproofing (46,000) (61,317) Material AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377,993) (503,855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	A40 Security Film in Lieu of Security Glass	(60,000)	(79,979)	Material
AVM02 Double Glazed CW in Lieu of Triple (209,300) (278,992) Material AVM03 Change 52% of CW to Storefront and Panels (377.993) (503.855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material		(197,400)	(263,129)	Material
AVM03 Change 52% of CW to Storefront and Panels (377.993) (503.855) Material AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	A15 Replace intumescent paint at exposed beams with hd spray fireproofing	(46,000)	(61,317)	Material
AVM03A Change 2,623 sf of CW to Metal Panel (82,739) (110,289) Material AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material	AVM02 Double Glazed CW in Lieu of Triple	(209,300)	(278,992)	Material
AVM08 Change ACP-1 and ACP-2 to 2x2 ACT (171,541) (228,660) Material				Material
	AVM03A Change 2,623 sf of CW to Metal Panel	(82,739)	(110,289)	Material
Subtotal Material Change (1,741,165) (2,320,930)				Material
	Subtotal Material Change	(1,741,165)	(2,320,930)	

Item/Description	Total Amount	Grand Total Amount	Category
A12 Changes to Service Corridor	(15,380)	(20,501)	Scope Reduction
A18 Reduce 6' snow barrier from 524sf to 344 sf	(26,780)	(35,697)	Scope Reduction
A29 Reduce wall tile in toilet rooms to 6'	(131,805)	(175,693)	Scope Reduction
E01 Change all PV panels to PPA by others or add alternate	(2,000,000)	(2,665,952)	Scope Reduction
H04 Eliminate Return/Exhaust Insulation within Building. With exception of	(244,946)	(326,507)	Scope Reduction
TO Additional Work at School Street	1,100,685	1,467,186	Scope Reduction
A16 Delete fencing and automatic vehicle barriers at middle of upper garage.	(24,450)	(32,591)	Scope Reduction
A20 Reduce layers of GWB at walls from 3 to 2 at 50% of type 1E walls	(128,142)	(170,811)	Scope Reduction
A21 Reduce Sinks at Pre-K, 7th and 8th Grade Classrooms (16 sinks)	(49,556)	(66,057)	Scope Reduction
AVM01 Reduce Overall GSF	(2,524,574)	(3,365,196)	Scope Reduction
AVM06 Eliminate Millwork Benches at Project Spaces	(181,800)	(242,335)	Scope Reduction
AVM07 Eliminate 41 Wardrobe Units	(54,796)	(73,042)	Scope Reduction
EV01 Reduce to 30 EV spaces (15 units of dual port)	(75,424)	(100,538)	Scope Reduction
	(63,875)	(85,144)	Scope Reduction
Subtotal Scope Reduction	(4,420,843)	(5,892,878)	
20 Eliminate Concrete Under Play Surface	(103,528)	(138,001)	Structure
A03 Substitute ERA-01R metal deck with fireproofing, except under	(276,644)	(368,759)	Structure
Subtotal Structure	(380,172)	(506,760)	
58 Use WAP with Minimal Hardwired Tel-Data Outlets	(180,549)	(240,667)	Telcom/AV
59 Wireless Clock System	(117,357)	(156,434)	Telcom/AV
AV01 Delete Speech Reinforcement in Classroom	(175,000)	(233,271)	Telcom/AV
AVM14 Reduction in AV	(1,938,594)	(2,584,099)	Telcom/AV
Subtotal Telcom/AV	(2,411,500)	(3,214,471)	
HZ02 Remove library oil tank through other Town budget	(120,000)	(159,957)	Town
55 Lightning Preventor (single mast) vs UL Master System	(34,637)	(46,170)	Town
AVM05 Eliminate Fire Pump	(130,633)	(174,130)	Town
Subtotal Town Decision	(285,270)	-380,257	

Total (18,331,013) (2

(24,434,798)

TOTAL APPROVED CONSTRUCTION VE: \$24,434,794



PROJECT COSTS HOW WE GOT TO BUDGET



Schematic Design Estimate to Current Budget

ABBREVIATIONS

VE: Value Engineering

ECC: Estimated Construction Cost

Hard Costs: Construction Costs

Soft Costs: All costs required to

facilitate a project such as management, design, furnishings, technology, testing, inspections, utility

costs, moving, contingencies, etc.

Schematic Design Estimate:	\$247,360,703
SD Construction VE Approved:	(\$ 24,434,794)
Construction VE Added Back: (Highlighted on VE List)	\$ 782,847
Feasibility Study Budget: (Previously Funded Costs)	(\$ 2,000,000)
Soft Cost Reductions: (Reflective of Going from a % of ECC to Actual Costs)	(\$ 6,198,284)
Relocation, Moving & Town of Brookline Costs Reductions:	(\$ 8,500,000)
Move Geothermal to an Add Alternate:	(\$ 7,337,922)
Current Total Project Budget:	\$199,672,550

PIERCE SCHOOL PROPOSED TOTAL PROJECT BUDGET



Feasibility Study/Schematic Design: \$ 0

(Previously Funded, Allocated and Expended Costs)

Administrative Costs: \$ 7,555,000

(Includes OPM Costs)

A/E Costs: \$ 18,289,869

(Includes Reimbursable A/E Consultants Costs)

Preconstruction Costs: \$ 300,000

Construction Costs: \$157,698,691

Miscellaneous Project Costs: \$ 3,000,000

(Includes Utility Company Fee, Construction

Testing & Inspections, Moving, TOB Management)

FFE: \$ 1,850,000

<u>Technology:</u> \$ 1,517,069

Project Costs Subtotal: \$190,210,629

Project Costs Subtotal: \$190,210,629

Contingencies: \$ 9,461,921

(Used Only as Needed to Fund Changes)

Total Project Costs: \$199,672,550

Less MSBA Funding: (\$ 44,816,070)

Cost to Town: \$154,856,480

COST TO TOWN

\$ 154,856,480

PROJECT COSTS POTENTIAL ESCALATION



	BUILD NOW	BUILD LATER
Cost of Construction (Escalation at 4% for 5 Years)	\$157,698,691	\$191,864,570
Soft Costs	\$ 41,973,859	\$ 47,966,142
Project Costs	\$199,672,550	\$239,830,712
MSBA Funding	(\$44,622,411)	(\$ 0)
Town Costs	\$154,856,480	\$239,830,712

COST DIFFERENCE: \$84,974,232

If a decision is made to build beyond the current timeline, the Town could spend nearly \$85M more for the exact same scope 5 years later. Including the construction timeframe, the school would not be completed until 2032.

PIERCE SCHOOL NEXT STEPS



Next Steps Timeline

09/20/22	Select Board Presentation and Vote on Budget and to Place Project on Ballot
,,	

10/13/22 Deadline to Submit Budget Information to MSBA

TBD SBC Meeting to Approve Submission of Schematic Design Report to MSBA

10/27/22 Deadline to Submit Schematic Design Report to MSBA

12/21/22 MSBA Board of Directors Meeting

January 2023 Debt Exclusion Vote

PIERCE SCHOOL WHY PIERCE NOW?





PIERCE SCHOOL QUESTIONS AND ANSWERS

