Scituate Public Schools

Cushing Hatherly Elementary School Project

School Building Committee

Public Forum #9

April 2, 2024





Agenda

- Introductions
- Schedule and Process
 Overview
- The Project Need
- How the Design Supports
 Education
- Stormwater Planning
- Project Budget
- Next Steps



The Project Team



Massachusetts School Building Authority

Funding Affordable, Sustainable, and Efficient Schools in Partnership with Local Communities

Program Administrator & Funding Partner



School Building Committee

Owner's Project Manager (OPM)

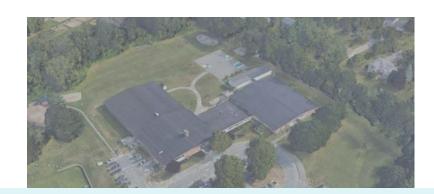


Designer (Architect)

Schedule and Process Overview



What is the project?



Hatherly Elementary School

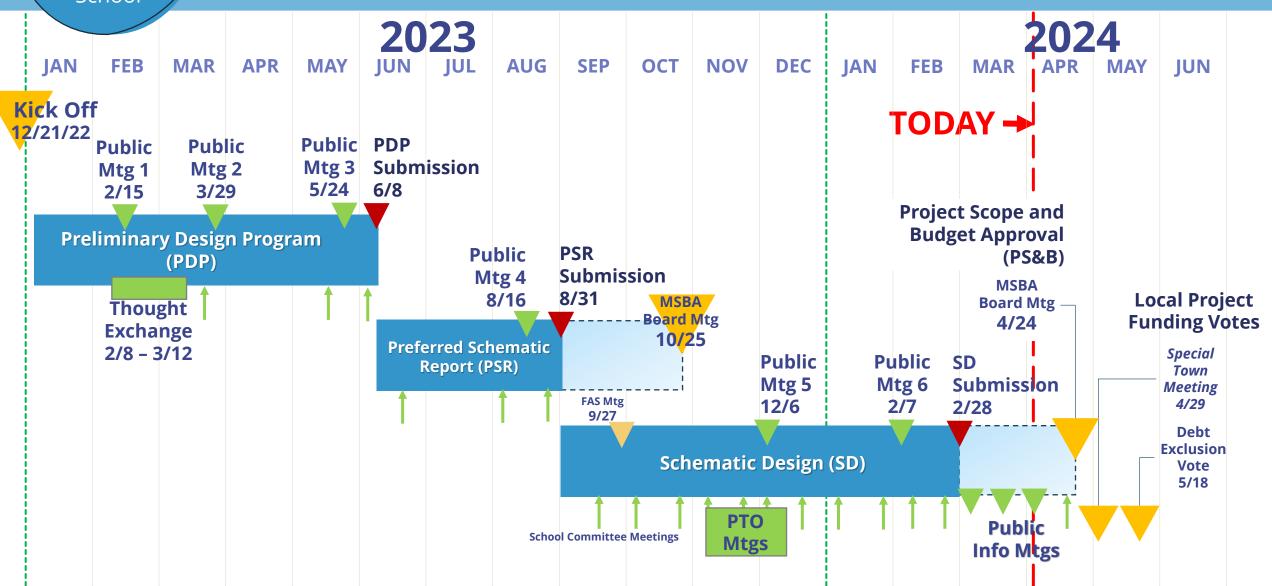


Cushing Elementary School

- A consolidated Grades K-5 school for 460 students
- In addition, there is Pre-K space for up to 100 students.
- Hatherly site was determined to be the most advantageous site location in the Preliminary Design phase.

Scituate Overall Project Schedule Cushing - Hatherly **Elementary School** 2018 2022 2017 2023 2019 2021 2020 2024 2025 2026 2027 **Feasibility** Study **Existing Cushing School Demolition Local Project** 9 months September 2027 **Elementary Funding Votes Statement Statement Eligibility** Schematic 4/29, 5/18 2024 **Schools** of Interest Phase of Interest Design **Facility Study** #1 #2 4/21 - 3/22 **Substantial** 7 months (Habib Completion, **Not Invited Submitted Building Occupied Associates**) to Eligibility 5/6/20 Pre-**Aug 2027 Phase Feasibility** Design Develop-**Existing OPM** ment **Hatherly School Hired 7/22** 5 months. **Demolition** June 2027 Construction **Documents Building** Pre-Completion **Feasibility** 8 months March 2027 Architect Bidding Hired 12/22 2 months TODAY Construction Administration 18 months 7.5 months Closeout Scituate
Cushing Hatherly
Elementary
School

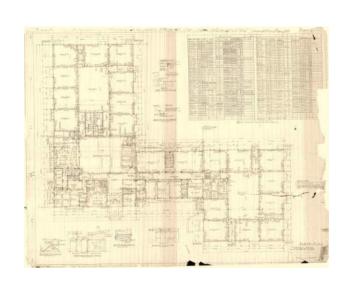
Feasibility Study– Schematic Design Updated Schedule



PROCESS: (23) Options Studied in Preliminary Design Program Phase

	GRADE K-5	GRADE K-5 CONFIGURATION - (460 enrollment)										
	1	2	3	4	5	6	7	8	9	10	11	12
	REPAIR ONLY (CIP) EXISTING HATHERLY + CUSHING	PHASED ADD-RENO K-5 HATHERLY	NEW CONSTRUCT K-5 HATHERLY L NORTH CONCEPT	NEW CONSTRUCT K-5 HATHERLY C NORTH CONCEPT	PHASED NEW CONSTRUCT K-5 HATHERLY C WEST CONCEPT	PHASED NEW CONSTRUCT K-5 HATHERLY E-W COURTYD CONCEPT	CONSTRUCT	NEW CONSTRUCT K-5 HATHERLY T CONCEPT	PHASED ADD-RENO K-5 CUSHING	NEW CONSTRUCT K-5 CUSHING C CONCEPT	NEW CONSTRUCT K-5 CUSHING L CONCEPT	NEW CONSTRUCT K-5 CUSHING COURTYD CONCEPT
ESTIMATED PROJECT COST (\$Millions)	\$63.3	\$106.5	\$99.6	\$101.1	\$101.8	\$105.2	\$104.9	\$102.3	\$107.5	\$102.8	\$101.3	\$106.9
	GRADE PreK-5 CONFIGURATION - (460 + 100 PK enrollment)											
		13	14	15	16	17	18	19	20	21	22	23
		PHASED ADD-RENO PK-5 HATHERLY	NEW CONSTRUCT PK-5 HATHERLY L NORTH CONCEPT	NEW CONSTRUCT PK-5 HATHERLY C NORTH CONCEPT	PHASED NEW CONSTRUCT PK-5 HATHERLY C WEST CONCEPT	PHASED NEW CONSTRUCT PK-5 HATHERLY E-W COURTYD CONCEPT	NEW CONSTRUCT PK-5 HATHERLY N-S COURTYD CONCEPT	NEW CONSTRUCT PK-5 HATHERLY T CONCEPT	PHASED ADD-RENO PK-5 CUSHING	NEW CONSTRUCT PK-5 CUSHING C CONCEPT	NEW CONSTRUCT PK-5 CUSHING L CONCEPT	NEW CONSTRUCT PK-5 CUSHING COURTYD CONCEPT
ESTIMATED PROJECT COST (\$Millions)		\$117.0	\$109.1	\$110.8	\$111.4	\$115.2	\$114.9	\$112.1	\$117.9	\$112.6	\$110.8	\$116.9

PROCESS: Six Options Studied in Preferred Schematic Phase



Repair Only - Option

\$62.0



18 \$120.1



Addition/Renovation **Options**

2 \$114.5

13\$122.2



New Construction Option

19 \$116.6

Costs shown are \$ millions

MSBA Formula

As a part of the MSBA process, all elementary spaces were evaluated to determine the space available to be used in our current buildings, which was used to formulate the space and enrollment capacity of the new building.

Total students: 618

- Cushing Elementary School 368 students
- Hatherly Elementary School 250 students

Based on the space available in other elementary schools, what is the capacity for the new building project? How many students will need to be dispersed among other elementary schools?

- Capacity of the new building project = 460 students
- 618 460 = 158 students will need to be dispersed to current available spaces



Why is Pre-K in the project?



- Pre-K classroom space IS
 REIMBURSABLE by the MSBA
- Expanded access to PreK addresses the issue of student wait lists





The Project Need

Needs Identified at Hatherly and Cushing Schools

- Spaces undersized or missing
- Inappropriate space uses and adjacencies
- Lack of meeting space
- Modular classrooms still in use
- Basic building systems need total replacement or significant upgrade

Hatherly was determined by the MSBA to have the greatest need of the four district elementary schools.



Hatherly Elementary School 1962 (61 yrs)



Cushing Elementary School 1964 (59 yrs)



Clogged site drains, poor soil drainage



Poor pavement condition, poor site circulation

Example Deficient Site Conditions



Peeling, rotted wood windows, poor insulation



Inadequate roof pitch, leaks



Example Deficient Exterior Conditions

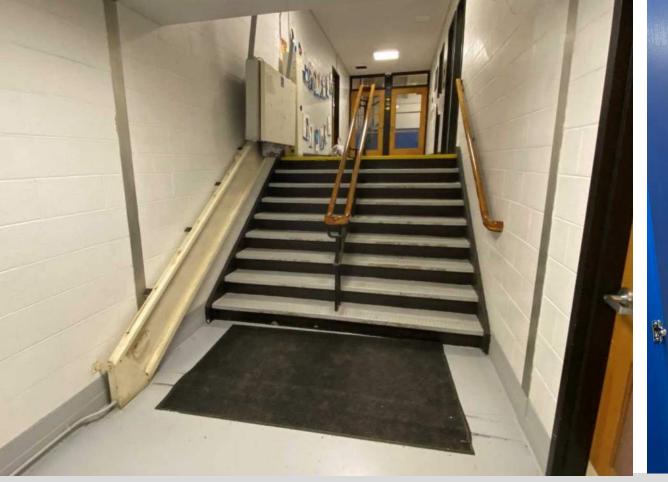


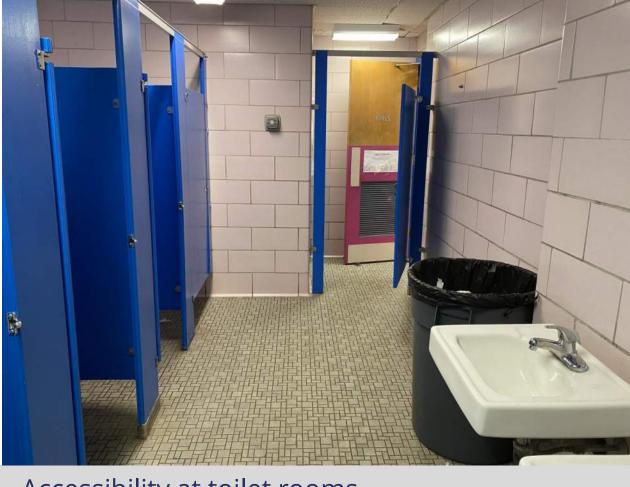




Decaying 24 year old Modulars, Access issues

Example Deficient Exterior Conditions





Lift at Stair

Accessibility at toilet rooms

Example Deficient Accessibility Conditions





Non-accessible, poor condition classroom sinks

Non-accessible stage platform at Cafeteria

Example Deficient Accessibility Conditions







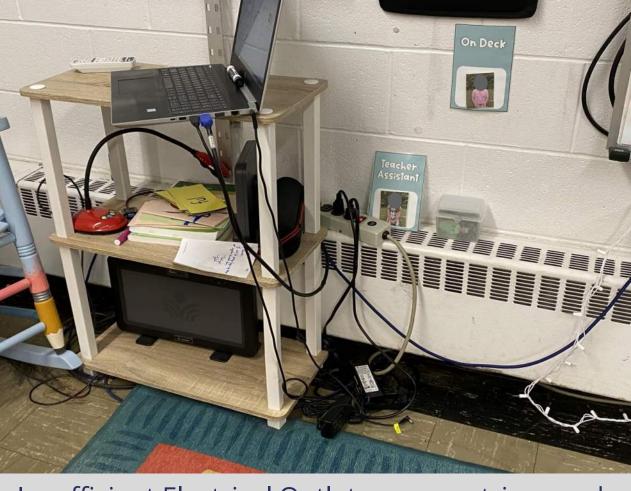
Original 1960's Electrical Switchgear, Controls

Example Deficient Systems Conditions





Roof leaks, roof decking not easily repairable



Insufficient Electrical Outlets, power strips used

Example Deficient Interior Conditions





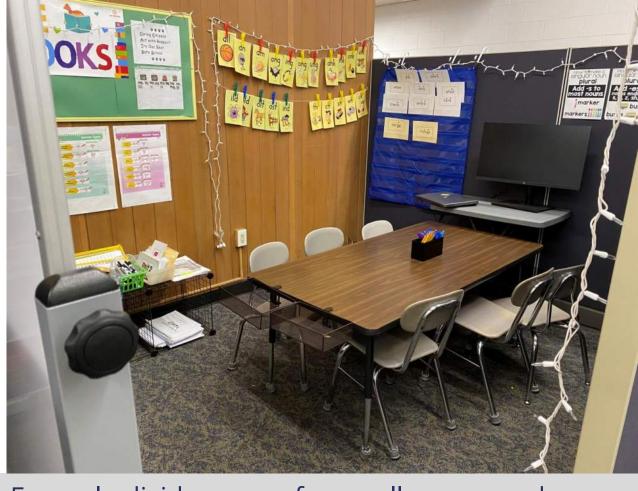
Undersized Classrooms, Lack of Storage

OT/PT in a Mechanical Closet - NOISE!

Example Deficient Educational Conditions







Example divider space for small group work

Example Deficient Educational Conditions

Ongoing Maintenance at all Scituate Schools

Wampatuck Floors	\$250,000	SHS Floors – Phases I, II, III	\$615,000
Wampatuck Library Floor	\$10,000	SHS Locker Room Reno Phase I & II	\$1,993,000
Wampatuck Parking Lot	\$303,600	SHS Roof Repair/ Replacement	\$650,000
Wampatuck Portico	\$229,000	SHS Rooftop HVAC Unit	\$38,000
		SHS HVAC Controllers Phase 1 of 3	\$165,000
Jenkins Roof	\$950,000	Coby Cutler Fitness Center Refresh	\$100,000
Jenkins Playground	\$400,000		
Jenkins Stairs	\$50,000	Campus Beautification (Annual)	\$9,990
		District Technology Infrastructure:	\$450,000
Cushing & Hatherly Smoke Detectors	\$50,000	 Chromebooks 	
Cafeteria Equipment (from Revenue)	\$325,000	Teacher laptopsWireless Access Ports	
Careteria Equipinent (nom Revenue)	<i>Φ323,</i> 000	 Interactive Display Panels 	

TOTAL \$6,588,590

The Costs of Repair-Only

\$62.0M repair-only costs for Cushing + Hatherly

(If able to complete as a single project today)

Potential Cost Impacts

- Phased construction ~ 6 year duration
- Construction cost escalation over time
- Modular swing space required
- Multiple student moves / highly disruptive
- Does not meet educational program goals
- MSBA reimbursement unlikely
- Diverts capital planning funds from other schools

Likely Schedule:

New Build Project Completion

Fall 2027

- versus -

Repair Project Completion

Fall 2032



The Design and its Educational Features

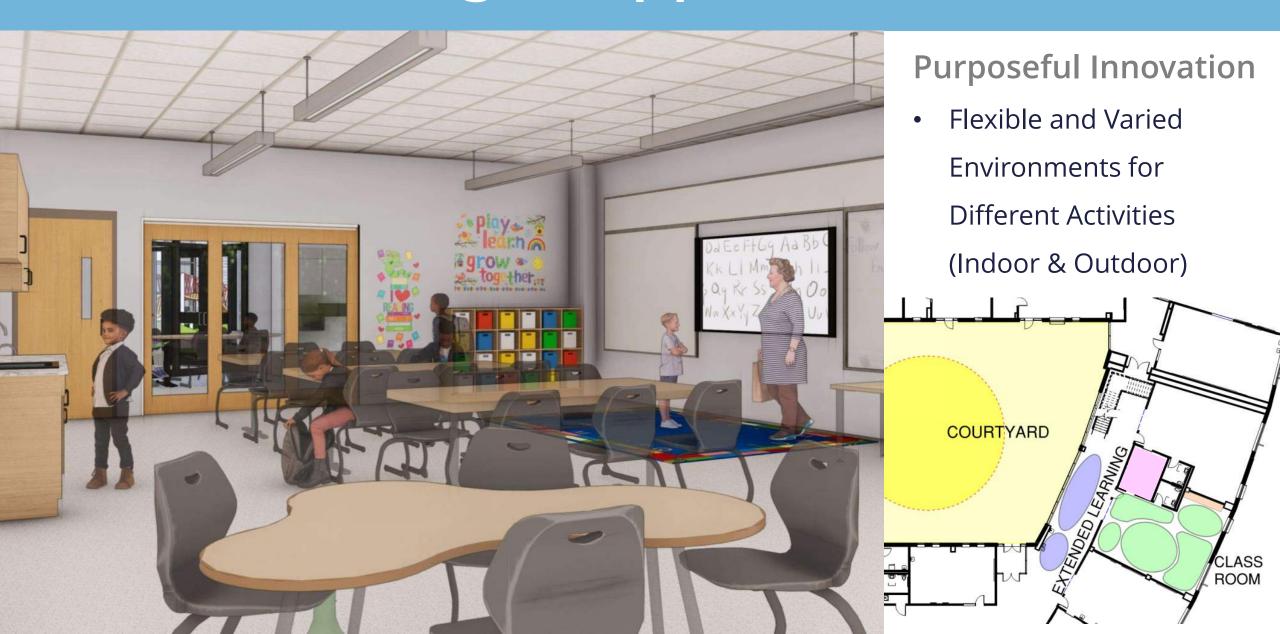
Vision and Core Values



"The most cost effective and educationally appropriate building."

- Purposeful Innovation
- Universal Design for Learning
- Community Connections
- Outdoor Connections
- Site and Building Safety

Programming and spaces that can deliver our children an excellent educational experience for the next 60 years.

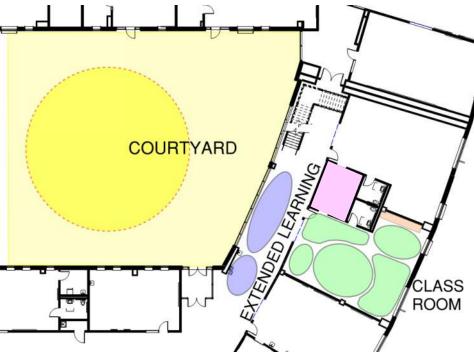






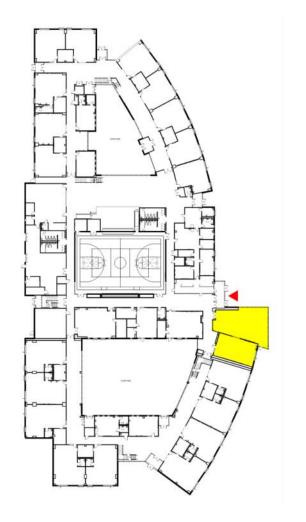
Purposeful Innovation

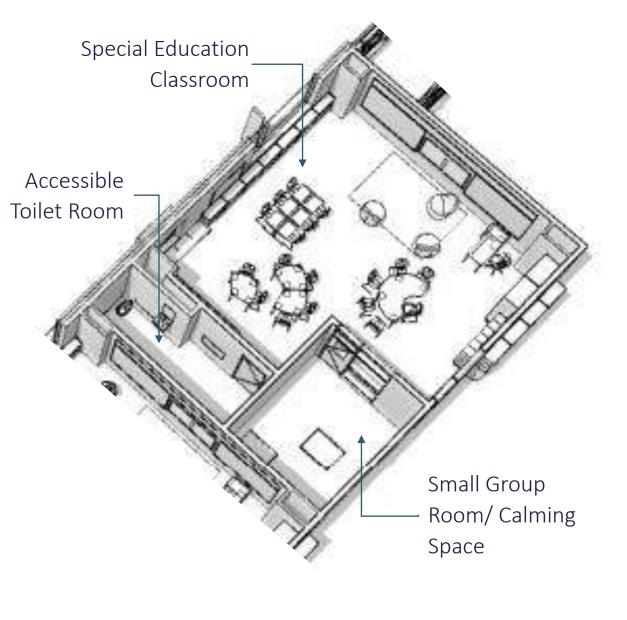
- Learning Places to Allow for Whole-Body Learning
- Safety





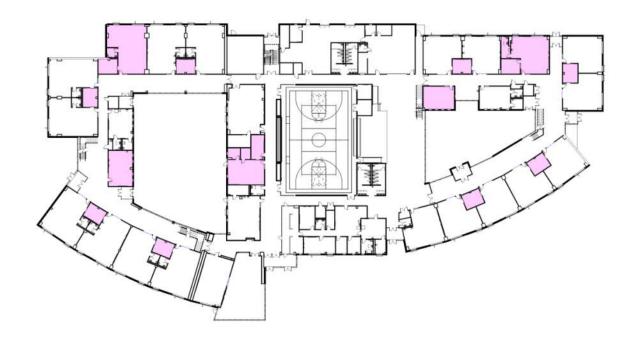
Purposeful Innovation





Universal Design for Learning

- Visible Learning that Includes and Serves all Learners
- Shared Spaces between Classrooms
- Push-in Services (SEL, Special Education)
 & Inclusive Learning Spaces



How the Design Supports Education



Outdoor Connections

Strong indoor/ outdoor connections



Outdoor Connections



Outdoor Connections

 Age-Appropriate, Engaging, Varied Experiences for Outdoor Play and Exploration



Outdoor Connections

- Age-Appropriate, Engaging, Varied Experiences for Outdoor Play and Exploration
- Safe Drop-off/Pick-up



Outdoor Connections

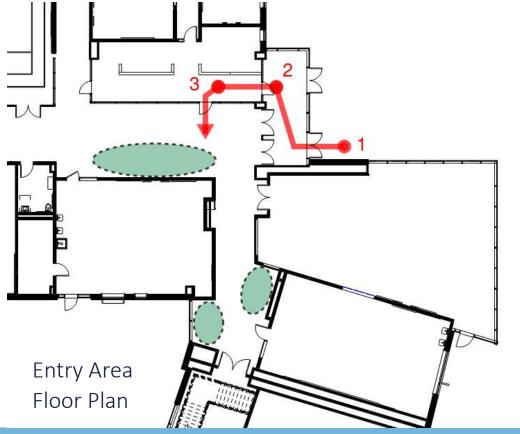
- Age-Appropriate, Engaging, Varied Experiences for Outdoor Play and Exploration
- Safe Drop-off/Pick-up
- Gym with Fields Adjacent





Community Connections

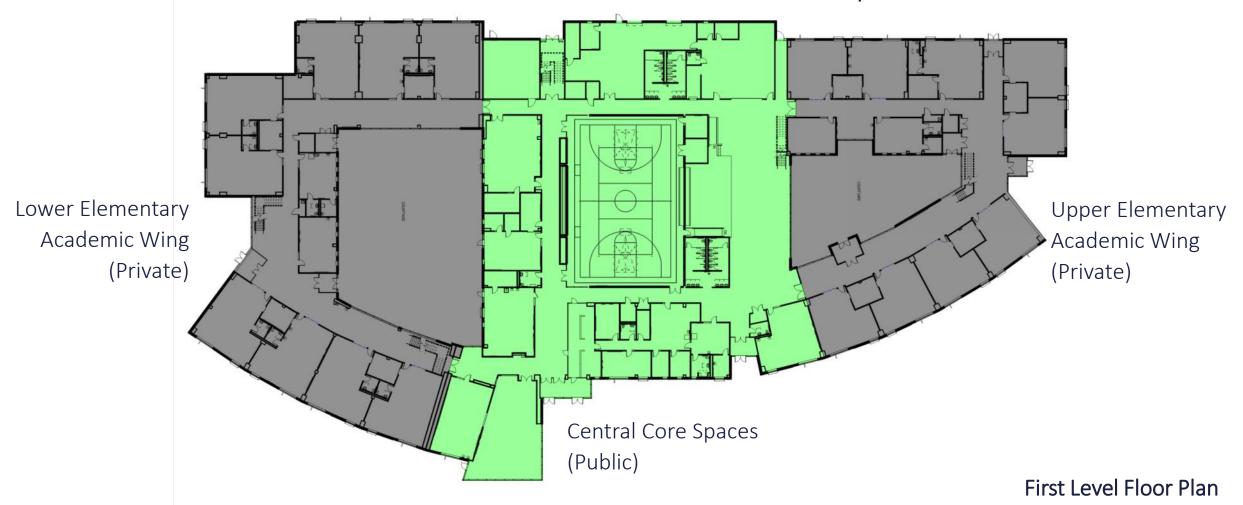
- Secure and Welcoming Entrance
- Family Reception/ Resource Space



How the Design Supports Community

Community Connections

- Separated public / private (safety and security)
- Public use of core spaces after hours



How the Design Supports Community

SOILS CONSTRUCTION LAYDOWN AREA STOCKPILE AREA CONSTRUCTION **OFFICES AND PARKING** NEW EXISTING HATHERLY SCHOOL REMAINS IN OPERATION BUILDING LOCATION PLAY AREA CONSTRUCTION PARKING TEMP **LEGEND** SIDEWALK & **BUS CIRCULATION CROSSWALKS** PARENT VEHICLE CIRCULATION BIKE/ PEDESTRIAN CIRCULATION CONSTRUCTION **EXISTING** CROSSWALK GATE **ENTRANCE** WETLAND BUFFER BOUNDARY

Construction Safety and Logistics

- Phased Site Plan
- Entire Construction Site Fenced
- Construction and public traffic separated
- Controls on construction impacts
- Site Circulation Plan
- Temporary Facilities Plan

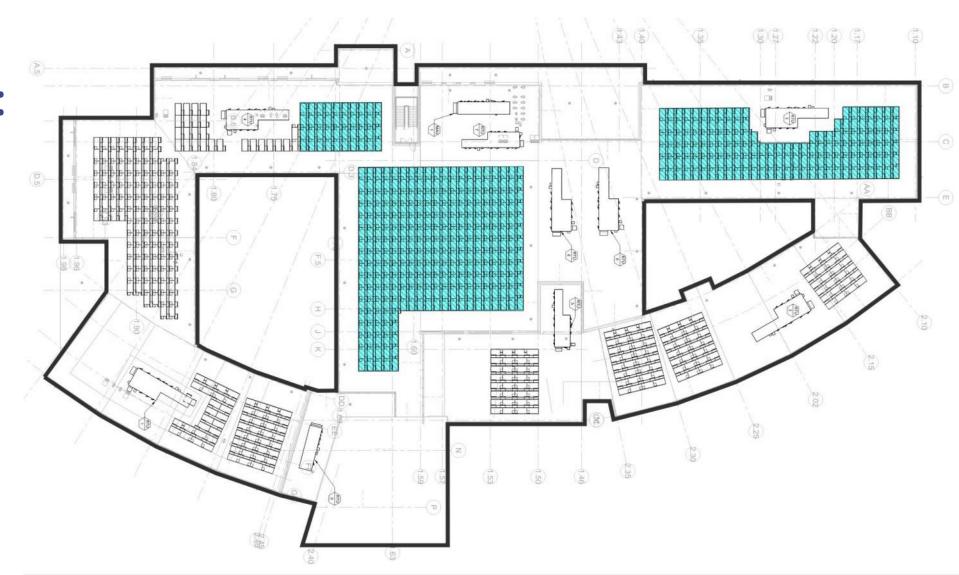




Green Building/Sustainability

Solar PV Array:

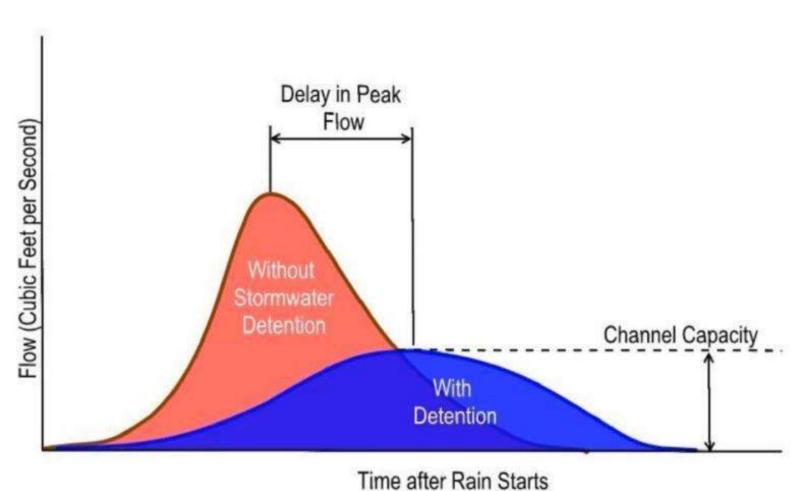
- 170kW minimum size array, required by the energy code, will fit on roof (blue shaded)
- Additional arrays of up to 277kW (another 107kW) will fit on the roof.



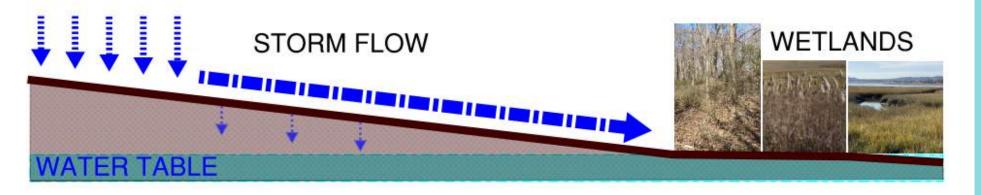


Stormwater Planning

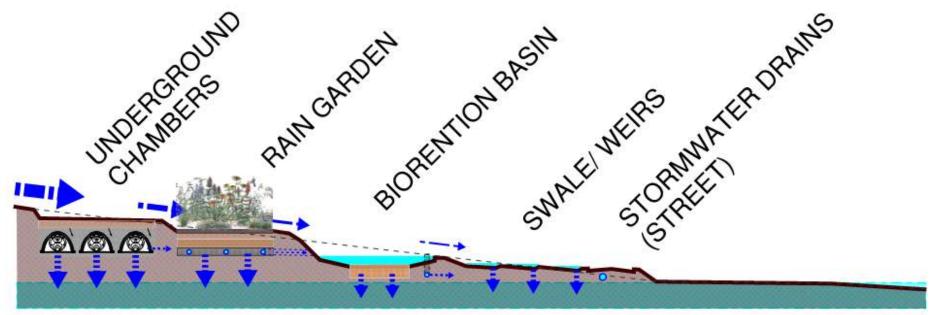
Stormwater Planning



- Must take care of ALL stormwater on site
- Managing RATE and VOLUME of stormwater that flows into system
- Planning for typical storms (>1") and more intense storms (2-3+")
- Detention/ Retention concept: STORE the stormwater onsite, then release it SLOWLY back into the system after the peak of the storm has passed.
 - Groundwater recharge
 - Off-peak release into system



UNDEVELOPED CONDITION



GROUNDWATER RECHARGE

DEVELOPED CONDITION

Stormwater Planning

- SLOW DOWN flows
- Groundwater recharge
- Off-peak release into system





Stormwater Design

Detention→ Recharge System Components

- SLOW DOWN flows
- Groundwater recharge
- Off-peak release into system





DP-3 (NORTH WETLAND PDA-3A

Stormwater Design

(3) Design Points

- Stormwater quantity divided proportionally according to receiving capacity
- Stormwater quantity for major storm capable of being stored on site before being released SLOWLY to landscape systems
- All stormwater goes through structures that:
 - slow velocity
 - settle out solids improving water quality
 - detain flow for delayed release to ground, wetlands, or street



Project Budget Cost Control

Description	Added	Deducted		TOTAL	
Starting SD Total Project Budget				\$	124,337,000
Less Site VE (grading changes, grass field, materials)		\$	(2,641,000)	\$	121,696,000
Less Structure VE (roof access changes, simplify entry)		\$	(1,016,000)	\$	120,680,000
Less Envelope VE (reduce glazing, eliminate parapets)		\$	(1,991,000)	\$	118,689,000
Less Interior VE (eliminate terrazzo, finish changes)		\$	(105,100)	\$	118,583,900
Less MEP VE (dual fuel system, reduce fixture package)		\$	(2,597,000)	\$	115,986,900
Less reduced soft costs		\$	(870,000)	\$	115,116,900
Feasibility Study	\$ 1,100,000			\$	116,216,900
Cushing Abatement and demo	\$ 2,793,000			\$	119,009,900
Ann Vinal Force Main	\$ 425,000			\$	119,434,900
Final Budget to MSBA				\$	119,434,900

• PSR budget of \$120,100,000 did NOT include the \$1.1M for Feasibility, \$2.793M for Cushing or the \$425K for the force main.

Project Budget Detail

Preferred Schematic (PSR)		Amount			
Construction Budget	\$	92,400,000			
Soft Costs at 30% of Construction	\$	27,720,000			
Total Project Budget (PSR)		120,120,000			
Less anticipated grant (28%)	\$	(33,633,600)			
Town Share	\$	86,486,400			

Schematic Design (SD)		Amount		
Construction Budget	\$	94,922,834		
Soft Costs at 25.8% of Construction		24,512,109		
Total Project Budget (SD)		119,434,943		
Less anticipated grant (30%)	\$	(35,814,280)		
Town Share	\$	83,620,663		

Differences from Preferred Schematic Report (PSR) to Schematic Design (SD):

- ✓ Construction Budget now includes the Cushing abatement, demo and site restoration (\$2.8M)
- ✓ Budget includes Ann Vinal Road force main work (\$360K for construction; \$75K for design)
- ✓ Soft costs decreased from 30% to 25.8% of Construction

Cushing-Hatherly Elementary School Finances at a Glance

Total Project Cost to be voted upon	\$119,434,943
Estimated Taxpayer Share (Net of Estimated MSBA Reimbursement and Previously Funded \$1.1M Feasibility Study)	\$82,520,663
Estimated Taxpayer Impact on \$921,206 Home – 1st Year Estimated Taxpayer Impact on \$921,206 Home - 25th Year	\$866 \$414
Estimated Total Taxpayer Impact Over 25 Year Period	\$15,988

⁽¹⁾Please note these are estimates and subject to change. The average assessed home value in Scituate is currently \$921,206 and changes annually.

NOTE: Data provided as of February 6, 2024 for informational purposes only.

⁽²⁾Project cost estimates based on a 25 year bond.

⁽³⁾ The Town's financial advisor has recommended we assume a **conservative** 4.75% interest rate.

Accessed Value of Bronarty	Estimated			Impact of Lower Interest Rate (<mark>2</mark>)				
<u>Assessed</u> Value of Property	Year 1 Impact (<mark>1</mark>)	4.50%	4.25%	4.00%	3.75%			
\$400,000	\$376	<i>\$365</i>	\$354	\$344	\$333			
\$450,000	\$423	\$411	\$399	\$387	<i>\$375</i>			
\$500,000	\$470	\$456	\$443	\$430	\$416			
\$550,000	\$517	\$502	\$487	\$473	\$458			
\$600,000	\$564	\$548	<i>\$532</i>	\$515	\$499			
\$650,000	\$611	\$593	\$576	\$558	\$541			
\$700,000	\$658	\$639	\$620	\$601	\$583			
\$750,000	\$705	\$685	\$664	\$644	\$624			
\$800,000	\$752	\$730	\$709	\$687	\$666			
\$850,000	\$799	\$776	<i>\$753</i>	\$730	\$707			
\$900,000	\$846	\$821	<i>\$797</i>	\$773	\$749			
\$921,206 Average (3)	\$866	\$841	<i>\$816</i>	<i>\$791</i>	<i>\$767</i>			
\$950,000	\$893	\$867	\$842	\$816	<i>\$791</i>			
\$1,000,000	\$940	\$913	\$886	\$859	\$832			
\$1,100,000	\$1,034	\$1,004	\$975	\$945	\$916			
\$1,200,000	\$1,127	\$1,095	\$1,063	\$1,031	\$999			
\$1,300,000	\$1,221	\$1,187	\$1,152	\$1,117	\$1,082			
\$1,400,000	\$1,315	\$1,278	\$1,240	\$1,203	\$1,165			
\$1,500,000	\$1,409	\$1,369	\$1,329	\$1,289	\$1,248			
\$1,600,000	\$1,503	\$1,460	\$1,417	\$1,375	\$1,332			
\$1,700,000	\$1,597	\$1,552	\$1,506	\$1,460	\$1,415			
\$1,800,000	\$1,691	\$1,643	\$1,595	\$1,546	\$1,498			
\$1,900,000	\$1,785	\$1,734	\$1,683	\$1,632	\$1,581			
\$2,000,000	\$1,879	\$1,826	\$1,772	\$1,718	\$1,665			
\$2,500,000	\$2,349	\$2,282	\$2,215	\$2,148	\$2,081			

Cushing-Hatherly Tax Impact Quick Reference Guide

- (1) The estimated first year impact based on a 25-year bond at 4.75% for the Town Share of \$82,290,830 which reflects the reduction of the estimated MSBA reimbursement and the previously funded feasibility study. First year impact is the highest and annual cost will decline every year after.
- (2) The final interest rate obtained at the time of borrowing will dictate the impact on taxpayers. We are using a conservative estimate as the borrowing would not occur for several years, but it is also important to see the effect of a lower interest rate on the tax impact, if one were to be achieved.
- (3) Average Property Value changes annually.

NOTE: Data provided as of February 6, 2024, and is for informational purposes only.

What a **YES** vote at Town Meeting and the Ballot means to the project:

- The Town executes a Project Funding Agreement with the MSBA for the proposed grant amount, for the approved Project Scope and Budget
- Project Design continues through Bidding of the project in the summer of 2025
- Construction commences in the summer / fall of 2025
- The new Cushing/Hatherly School is open for students in September of 2027

What a **NO** vote at Town Meeting or the Ballot means to the project:

- The Town does not proceed further in the MSBA process as the approved Project Scope and Budget was not supported by its residents
- The funds expended thus far (over \$1M before reimbursement) are gone and would need to be spent again if the district were to pursue another MSBA grant
- The Town must submit a new Statement of Interest for future consideration by MSBA. Scituate would likely be a lower priority than other towns due to the failed vote.
- Cushing and Hatherly deferred capital needs will take precedence over other school capital projects for the foreseeable future at an estimated current repair cost of \$30M for each school in today's dollars
- The rejected solution will continue to grow in cost at approximately 5% per year
- Real facility-driven educational needs in Hatherly and Cushing Schools will continue to be unmet

Next Steps:

April 24
 MSBA Board Meeting

Voting Information:

- Monday, April 29, 7 PM Special Town Meeting
- Saturday, May 18, 8 AM 6 PM Annual Town Election (Debt Exclusion Vote)
- Both events are at Scituate High School Gymnasium



QUESTIONS? Project Website: scit.org











