

Scituate Public Schools

Cushing - Hatherly Elementary School Project

School Building
Committee
Public Forum

February 15, 2023

VERTEX®

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How we got here...

Hatherly and Cushing Schools

- Both schools experience space deficiencies in their educational programs, particularly, special education, art, and music.
- Both have inappropriate space adjacencies: library, gymnasium
- Each school needs significant upgrades, including HVAC, plumbing, electrical, exterior windows and envelope, accessibility, etc.
- Both have temporary modular classrooms.
- **Hatherly** was determined to be in the most need of the four district elementary schools.



Hatherly Elementary School – 1962 (**61 yrs**)



Cushing Elementary School – 1964 (**59 yrs**)

Existing Conditions Assessment: What is

Hatherly (1962 - 61 yrs.) and Cushing (1964 - 59 yrs.)
are “twin schools”

- Nearly identical designs and installed components
- Very similar observations between the two buildings to a greater or lesser degree
- Maintenance has differed over the years, so some replaced components are different
- Neither building has had major upgrades
- Bottom line: both schools have great facilities needs



Existing Conditions Assessment: What is

No major red flags or dangerous safety conditions

	SITE & CIVIL	SITE ACCESSIBILITY/PLAY AREAS	EXTERIOR BUILDING ELEMENTS	INTERIOR ARCH ELEMENTS	ACCESSIBILITY	STRUCTURAL ELEMENTS	MECHANICAL SYSTEMS	ELECTRICAL SYSTEMS	PLUMBING SYSTEMS	FIRE PROTECTION SYSTEMS	HAZARDOUS MATERIALS	FUNCTIONAL USE OF SPACE	
Hatherly ES	●	○	●	●	●	○	●	●	●	●	●	●	24
Cushing ES	○	○	●	●	●	○	●	●	●	●	○	●	26



Existing Conditions Assessment: Hatherly Elementary School

Site Issues

- *One entry/exit*
- *Traffic congestion*
- *Difficult Circulation*
- *Inadequate Parking*
- *Paving Condition*
- *Accessibility issues*

Civil/Drainage

- *Poor drainage*
- *Stormwater standards*
- *Wet fields*



Existing Conditions Assessment: Hatherly Elementary School

Build 1962

Architectural Issues

- *Foundations*
- *Windows*
- *Panels around windows*
- *Envelope/ Insulation lacking*
- *Caulking brittle, cracked*
- *Modulars deteriorating – 20 yrs.*



Existing Conditions Assessment: Hatherly Elementary School

Architectural Issues

- *Roof membrane age, condition*
- *Lack of pitch to drains*
- *History of leakage*
- *Eaves and fascias*
- *Chimney deteriorated*
- *Lack of roof insulation*
- *Deck structure not suitable for alterations*



Existing Conditions Assessment: Hatherly Elementary School

Interior Issues

- *Lack of temperature control*
- *Drafty, leaky envelope*
- *Tired, worn interiors*
- *Dingy ceilings around air grilles*
- *Accessibility Issues*
- *Library & Gym location*
- *VAT present, stable condition*
- *Structural upgrades required if renovated*



Existing Conditions Assessment: Hatherly Elementary School

Mechanical Issues

- *Outdated, mixed controls*
- *No BMS*
- *Aging, inefficient steam boilers*
- *Gas fuel*
- *Leaking pipes*
- *Original unit ventilators*
- *Aging AHUs*
- *Window AC units*
- *Lack of mech. ventilation*
- *Direct exhaust fans added*



Existing Conditions Assessment: Hatherly Elementary School

Electrical Issues

- *Original electrical switchgear - systems not suitable for renovation*
- *Few spare breakers*
- *Lack of outlets, lots of power strips in use*
- *Newer generator*
- *Some newer LED; some older, inefficient lighting*
- *No lighting controls*
- *Fire alarm system does not meet present-day code*



Existing Conditions Assessment: Hatherly Elementary School

Plumbing Issues

- *Original plumbing fixtures – not water-efficient*
- *Many fixtures and faucets not accessible*
- *Water quality issues – building filtration needed*
- *Gas piping lacks solenoid in kitchen*
- *Newer gas water heater*
- *Piping generally past useful life*
- *Kitchen lacks interior grease traps*



What is



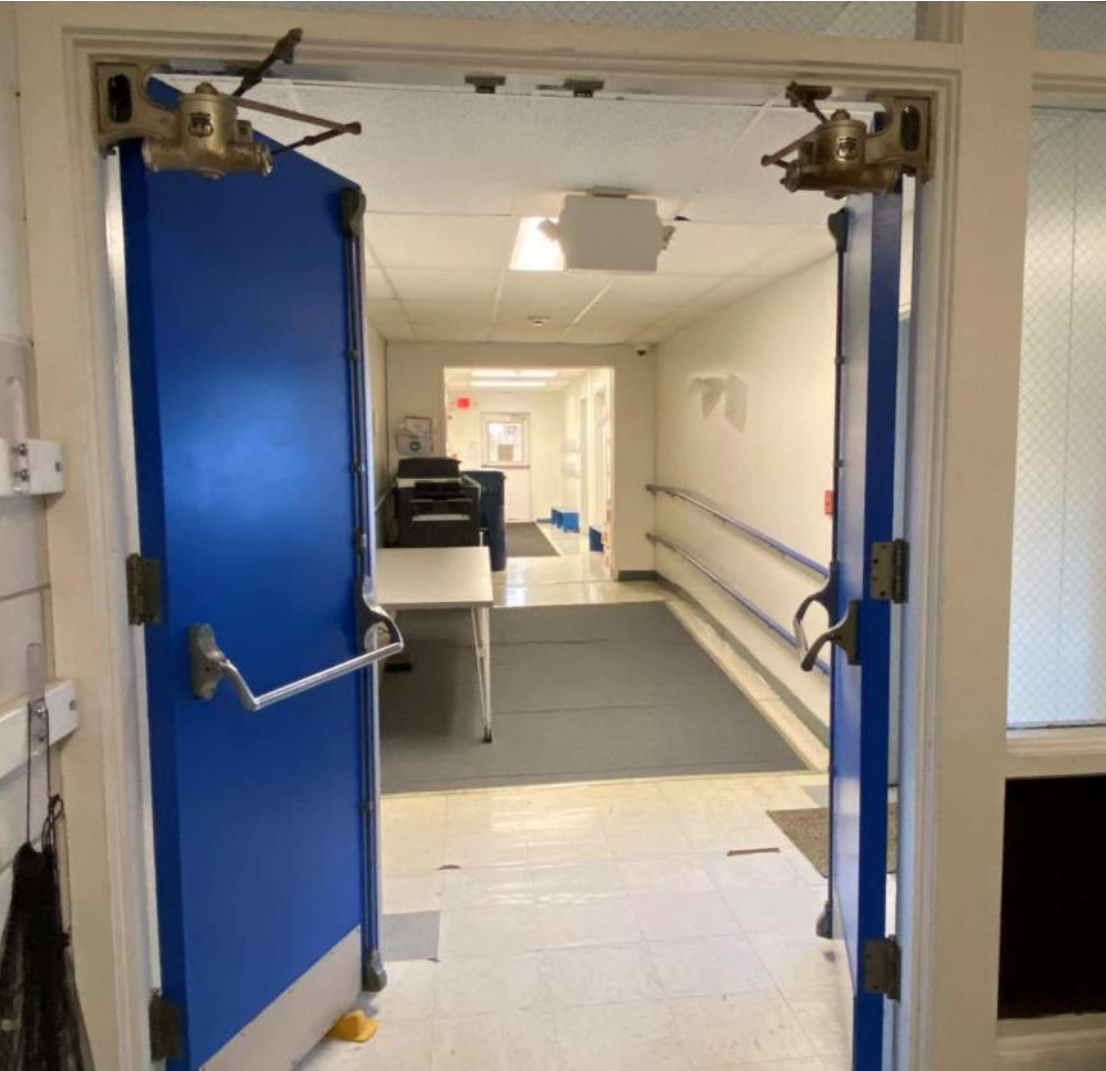
Hatherly Elementary School - Library

What can be



Sunita L. Williams Elementary School - Library

What is



Hatherly Elementary School - Corridor

What can be



S.L. Williams Elementary School - Extended Learning

What is



Cushing Elementary School - corridor

What can be



Woodland ES, Milford Extended Learning SMMA Architects

What is



Cushing Elementary School - Cafeteria

What can be



Northbridge Elementary School Cafeteria

What is



Cushing Elementary School - Classroom

What can be



West Parish Elementary School