

NEEDHAM SCHOOL MASTER PLAN

Project Update

School Committee 9/15/20

Objectives / Agenda

Review Process

Facility Needs & Code Triggers

Capacity Needs for Enrollment & Educational Programming

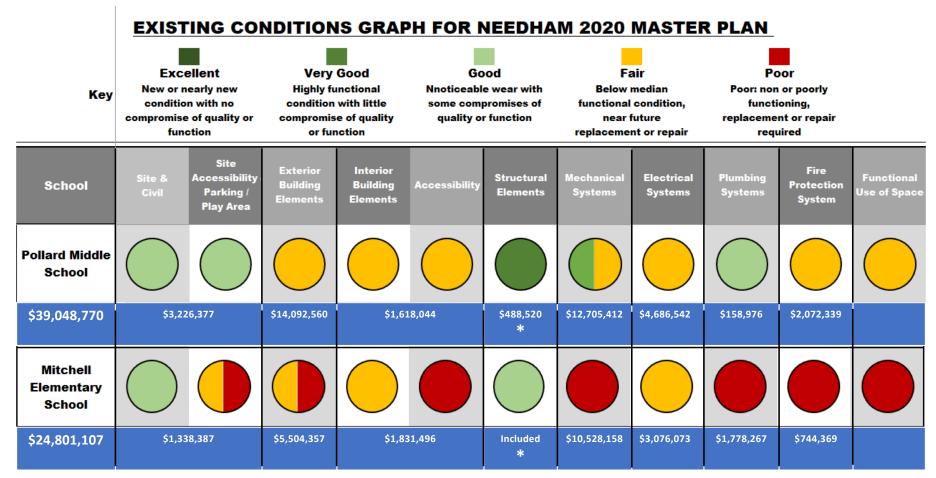
Review Master Plan Scenarios

Process

Goal: Determine Facility Needs To Meet Educational Program District Wide

Educational Space NeedsPhysical Building NeedsCapacity AnalysisPhysical AssessmentSpace Utilization AnalysisDetail ReportEnrollment ProjectionsMitchellMitchellPollard

	EXISTING CONDITIONS GRAPH FOR NEEDHAM 2020 MASTER PLAN											
Key		Excellent New or nearly new condition with no compromise of quality or function		Very Good Highly functional condition with little compromise of quality or function		Good Nnoticeable wear with some compromises of quality or function		Fair Below median functional condition, near future replacement or repair		Poor Poor, functioning, replacement or repair required		
	School	Site & Civil	Site Accessibility -Parking / Play Area	Exterior Building Elements	Interior Building Elements	Accessibility	Structural Elements	Mechanical Systems	Electrical Systems	Plumbing Systems	Fire Protection System	Functional Use of Space
SCHOOLS	Pollard Middle School			\bigcirc						\bigcirc		\bigcirc
WIDDLE	High Rock (Gr 6 School)											
	Broadmeadow Elementary School	\bigcirc						\bigcirc				
015	Eliot Elementary School	\bigcirc						\bigcirc		\bigcirc		\bigcirc
ELEMENTARY SCHOOLS	Mitchell Elementary School	\bigcirc					\bigcirc					
	Newman Elementary School	\bigcirc					\bigcirc					
	Sunita L Williams Elementary School											
	Former Hillside Elementary School											



*Does not include cost for seismic upgrades

*Does not address capacity issues

*Does not resolve Functional Use of Space

What's Included

Pollard +/- \$40 m

- Accessibility of the Courtyard
- Repairs to Exterior Columns
- Building Envelope Upgrades
- Window Replacement
- Modular Building Replacement (\$9m)
- HVAC, Electrical , Plumbing Upgrades
- Fire Protection Installation

Mitchell +/- \$25 m

- Window and Vent Replacement
- HVAC, Electrical , Plumbing Upgrades
- Fire Protection Installation

Compliance & Triggers

Code Compliance

Issues not in compliance with **CURRENT** are identified. As an occupied building constructed under former building codes the facilities are code compliant with approved occupancies.

Triggers

• Seismic:

if renovations, additions or alterations of an existing building exceed **50%** of the aggregate **area** of the building then **the entire facility** must be upgraded to meet current seismic codes.

• Fire Protection

buildings that exceed 7500 sq. ft. any addition or renovation to the building will require that the entire facility have an automatic fire suppression system

Handicap Accessibility:

Items that met the accessibility guidelines of the 1991 ADA and have not been altered may be considered "safe harbor"

However, Schools and other public building are required to meet the minimum of access to the front entrance, and provide an accessible toilet room, and an accessible drinking fountain

All renovations must comply. **Renovations over the course of 3 years** that amount to **more than 30% of the fair values** will trigger the requirement for the **entire facility to be upgraded** including access to the site, parking, front entrance playground and playfields

Total Gross Square Feet

Pollard = 134,427 (no modulars) 50% = 67,213.5

Mitchell = 53,785 (no modulars) 50% = 26,892.5

Fair Market Value

Pollard = \$20,421,50030% = \$6,126,450 = NTE \$2 m / yr for 10 yearsMitchell = \$8,215,20030% = \$2,464,560 = NTE \$800t /yr for 10 years

Capacity & Ed. Program Needs

Educational Space Needs

Capacity Analysis Space Utilization Analysis Enrollment Projections

Elementary Schools

Current General Classroom
 123

Middle Schools

Current General Classroom
 86

Elementary School Needs

- Capacity Challenges @ Broadmeadow Eliot & Mitchell
- Classroom target for Master Plan is 126 General Classrooms

Middle School Needs

- Capacity Challenges @ High Rock
 Pollard
- Classroom target for Master Plan is
 101 General Classrooms

Master Plan Scenarios Explored:

* Not a free-standing elementary school. Two schools under one roof model with 6th-8th MS.

Major Project Required

	Status Quo	Discontinue High Rock 5ES & MS	High Rock As ES 6ES & MS	Two 6-8 Middle Schools 5ES & 2MS	One 5-8 Middle School 5ES & MS	Two 5-8 Middle Schools 5ES & 2 MS	Super School 5ES* & MS
	Pk, K-5th, 6 th ,7 th - 8 th	Pk, K-5th, 6 th -8 th	Pk, K-5th, 6 th -8 th	Pk, K-5th, 6 th -8 th	Pk, K-4th, 5 th -8 th	Pk, K-4th, 5 th -8 th	Pk, K-5th, 6 th -8 th
Broadmeadow	K-5 th	K-5 th	K-5 th	K-5 th	K-4 th	K-4 th	K-5 th
	Remains	Remains	Remains	Remains	Remains	Remains	Remains
Eliot	K-5 th	K-5 th	K-5 th	K-5 th	K-4 th	K-4 th	K-5 th
	Remains	Remains	Remains	Remains	Remains	Remains	Remains
Mitchell	K-5 th New ES (5 sections)	K-5 th New ES (5 sections)	K-5 th New ES (3 sections)	K-5 th New ES (7 sections)	K-4 th New ES (4 sections)	K-4 th New ES (3 sections)	Discontinued
Newman	PK, K-5 th	PK, K-5 th	PK, K-5 th	6th-8th	PK, K-4 th	5 th -8 th	PK, K-5 th
	Remains	Remains	Remains	MS Reno	Remains	Reno/Add	Remains
Williams	K-5 th	K-5 th	K-5 th	K-5 th	K-4 th	K-4 th	K-5 th
	Remains	Remains	Remains	Remains	Remains	Remains	Remains
High Rock	6 th Only	Repurposed	Repurposed	Repurposed for	Repurposed	Repurposed	Repurposed
	Addition	TBD	for ES	ES	TBD	K-4 th	TBD
Pollard	7 th -8 th Reno/Add or New	6 th -8 th Reno/Add or New	6 th -8 th Reno/Add or New	6 th -8 th Reno or New	5 th -8 th Reno/Add or New	5 th -8 th Reno or New	K-5 th & 6 th -8 th Reno/Add or New

FINAL OPTIONS

Status Quo Grade Configuration

\$310.3 m +/-

Pollard 7&8 Renovations + Addition 907-955 Students

> High Rock 6 Addition 430-477 students

Mitchell

5 sect / grade New School 650 +/- Students Discontinue High Rock

\$287.1 m +/-

Pollard 6-8 Renovations + Addition 1,337-1,432 Students

> High Rock Vacant 0 Students

Mitchell

5 sect / grade New School 650 +/- Students High Rock 6th Elementary School

\$251.9 m +/-

Pollard 6-8 Renovations + Addition 1,337-1,432 Students

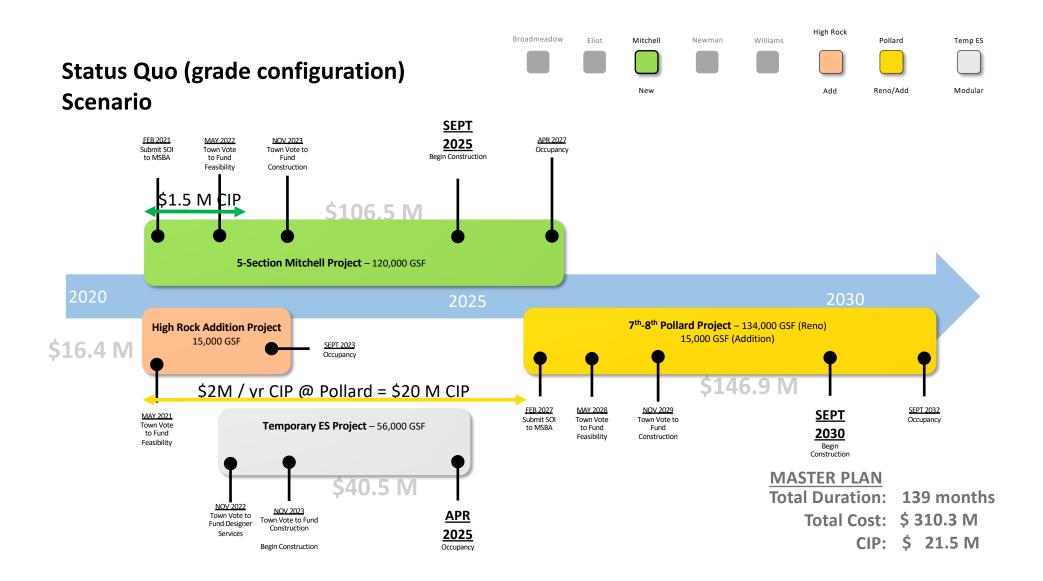
High Rock K-5

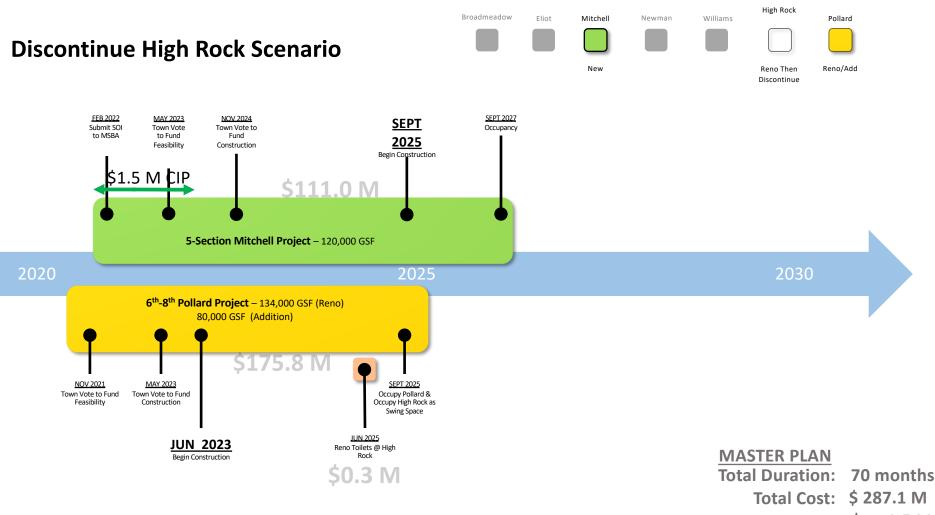
3 sect / grade Renovations 330 +/- Students

Mitchell

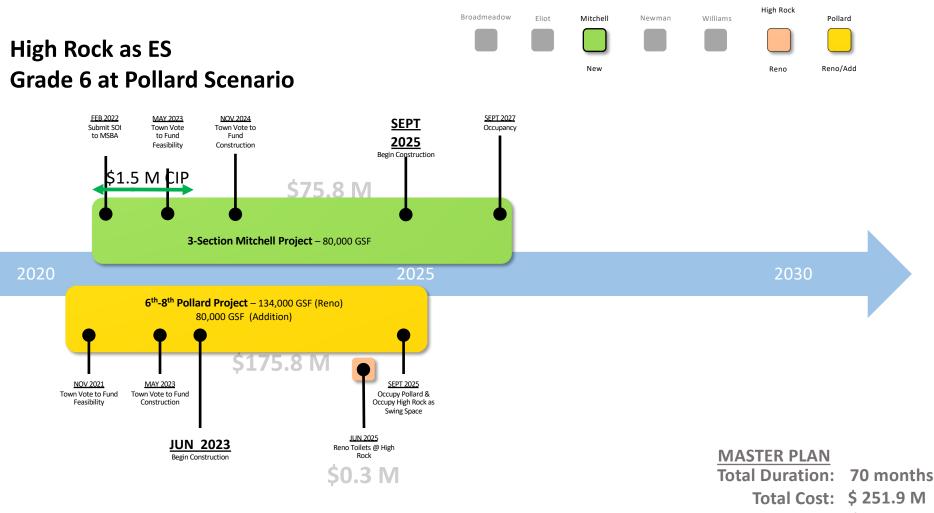
3 sect / grade New School 330 +/- Students

Master Plan Sequences w/ Cost Estimates

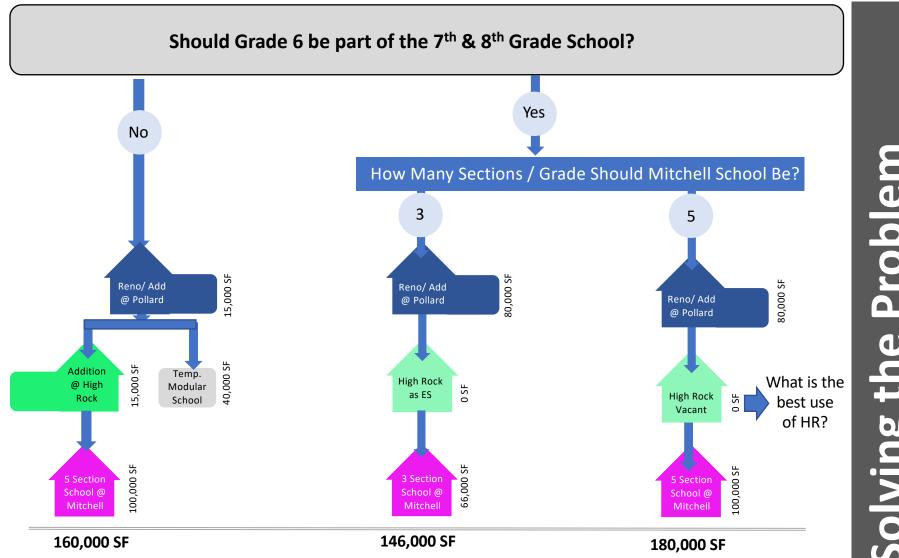




CIP: \$ 1.5 M



CIP: \$ 1.5 M



Solving the Problem

Next Steps

School Committee Public Hearing 10/6/20

Issue Final Report

Town to begin conversations with MSBA



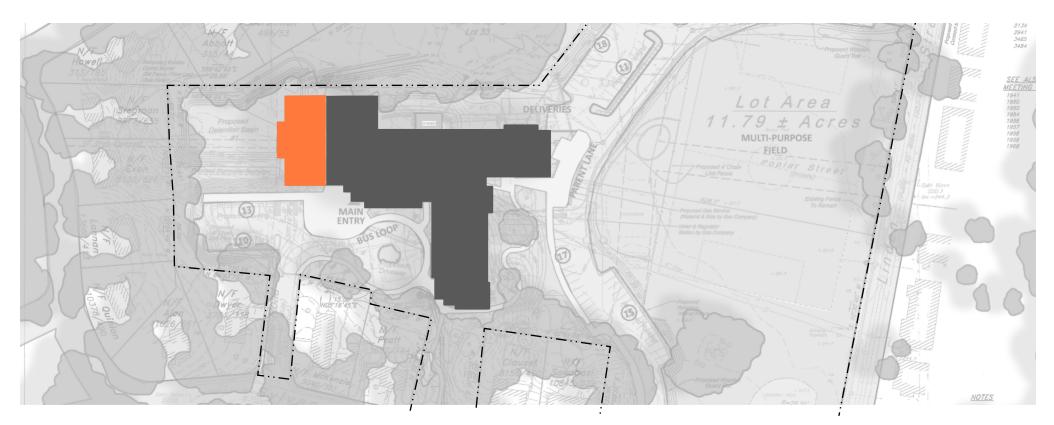
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Project Update

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Addition @ High Rock 6th Grade Only

- 15,000 GSF
- 2 Stories
- Occupied, Phased Construction



- Addition Placed over existing Detention Basin
- Results in some windowless classrooms
- Construction adjacent to occupied space is a challenge
- Construction logistics are a challenge

High Rock School, Proposed Site Plan

- 10 Classroom Addition, Two Stories
- Grades 6th

Existing Buildings

New 15,000 GSF Addition

New Mitchell Elementary School 5 Sections/Grade

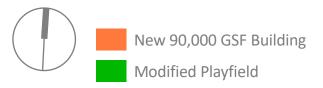
- 120,000 GSF
- 2 Stories



- No phasing required if Students are off-site during construction
- Existing fields are retained
- Construction logistics manageable

Mitchell ES, Proposed Site Plan

- 4 Sections Per Grade, Two Stories
- Grades K-5th



New Mitchell Elementary School 3 Sections/ Grade

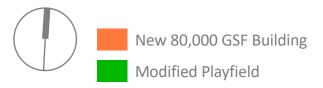
- 80,000 GSF
- 2 Stories



- No phasing required if Students are off-site during construction
- Existing fields are retained
- Construction logistics manageable
- More open space and less architectural impact to neighbors

Mitchell ES, Proposed Site Plan

- 3 Sections Per Grade, Two Stories
- Grades K-5th



Addition/Reno to Pollard MS 6th-8th Grade (1,432 Students)

- 35 Teaching Stations
- 60,000 GSF Addition
- 2+ Stories
- Occupied, Phased Construction



- Requires removal of modular classrooms during construction. Swing space?
- Construction adjacent to occupied space is a challenge.
- Construction logistics more manageable.
- Results in loss of softball field and tennis courts.
- Concerns about increased traffic in neighborhood.

Pollard MS, Addition/ Renovation

• 1,432 Students

• Grades 6th-8th

Existing Building to Remain New 80,000 GSF Addition

Replicated Playfield