

Galvin Middle School, Canton, MA

Community Forum #1
September 27, 2023



www.galvinmsproject.com

AGENDA:

- 1. Team Introductions
- 2. MSBA Masterplan & Process
- 3. Project Schedule
- 4. Work to date
- 5. Next steps

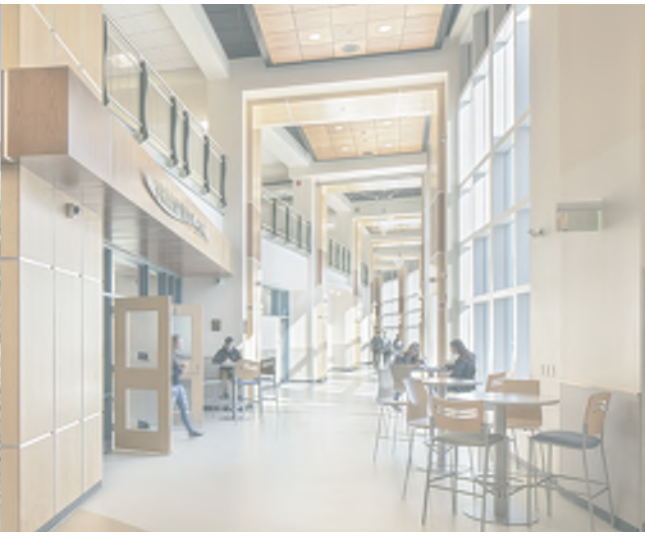
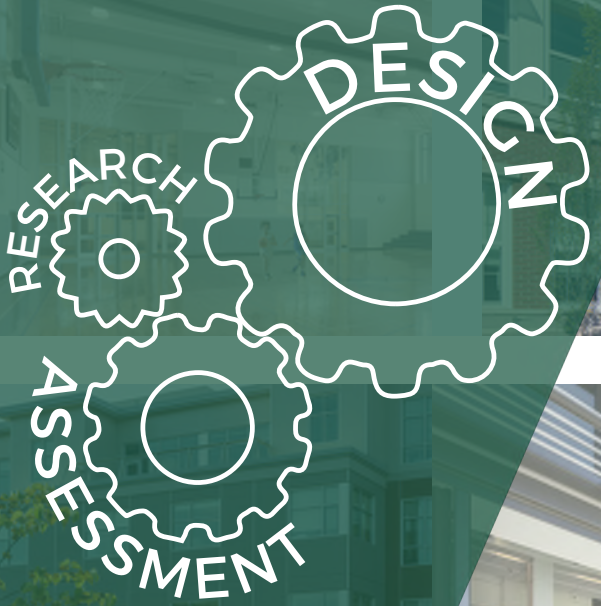
COMMUNITY ENGAGEMENT

- Site plan/community use charette: Identify community features and what is important to Canton residents



100% Focus on Education!

We are a unique firm specializing in educational design



Middle School Design Experience

25+

years designing innovative middle school environments

40+

partnerships with cities & towns across New England

4,000+

educators have shared their philosophies, challenges, & success stories with us

Over
110,000



Children have been educated in middle schools designed by **Ai3 Architects**



Student-Centered
Design Concepts

Social-Emotional Learning



Student-Centered
Design Concepts

Learning Communities



Student-Centered
Design Concepts

Hands-on Collaboration



Student-Centered
Design Concepts

Classroom of the Future



Student-Centered
Design Concepts

Classroom of the Future



Student-Centered
Design Concepts

Socialization/
Student Commons



Student-Centered
Design Concepts

Socialization/
Learning Commons



Student-Centered
Design Concepts

Flexible Assembly Spaces



Student-Centered
Design Concepts

Auditorium Assembly Space



Student-Centered
Design Concepts

Professional Collaboration



Student-Centered
Design Concepts

Small Group Breakout Spaces



Student-Centered
Design Concepts

Spontaneous Learning



Student-Centered
Design Concepts

Outdoor Learning

Sustainability & Zero Net Energy

Cunniff Elementary School
Watertown, MA - 2022
EUI = 23.1



1st

Hosmer Elementary School
Watertown, MA - 2022
EUI = 22.4



Ai3 designed the fully **Net Zero Energy** elementary schools in the Commonwealth

On track to be the nation's

1st Net Zero & LEED v4.1 Platinum High School

Optimally oriented with consideration of mitigating thermal loads on every facade

Super efficient exterior building envelope design (Roof R=50)

Building-mounted solar to maximize on-site energy production

All-electric building via geothermal system with ground-source heat pumps

We are excited to engage the **Town of Canton's NEW Sustainability Committee** to discuss opportunities

Health & Wellness

Selecting interior finishes & furnishings to achieve LEED v4 credits (M&R c4, IEQ c2)

A healthy school environment improves well being & leads to greater productivity!



Ventilation
Indoor Air Quality
Thermal Comfort
Lighting & Views
Acoustic
Atmosphere

HEALTH

1

Minimize air recirculation when possible
Increase outdoor air into school environment
Proper MERV rating filtration

WELL BEING

2

UGUI Germicidal Irradiation
Maintain humidity levels between 40%-60%
Implement touchless controls

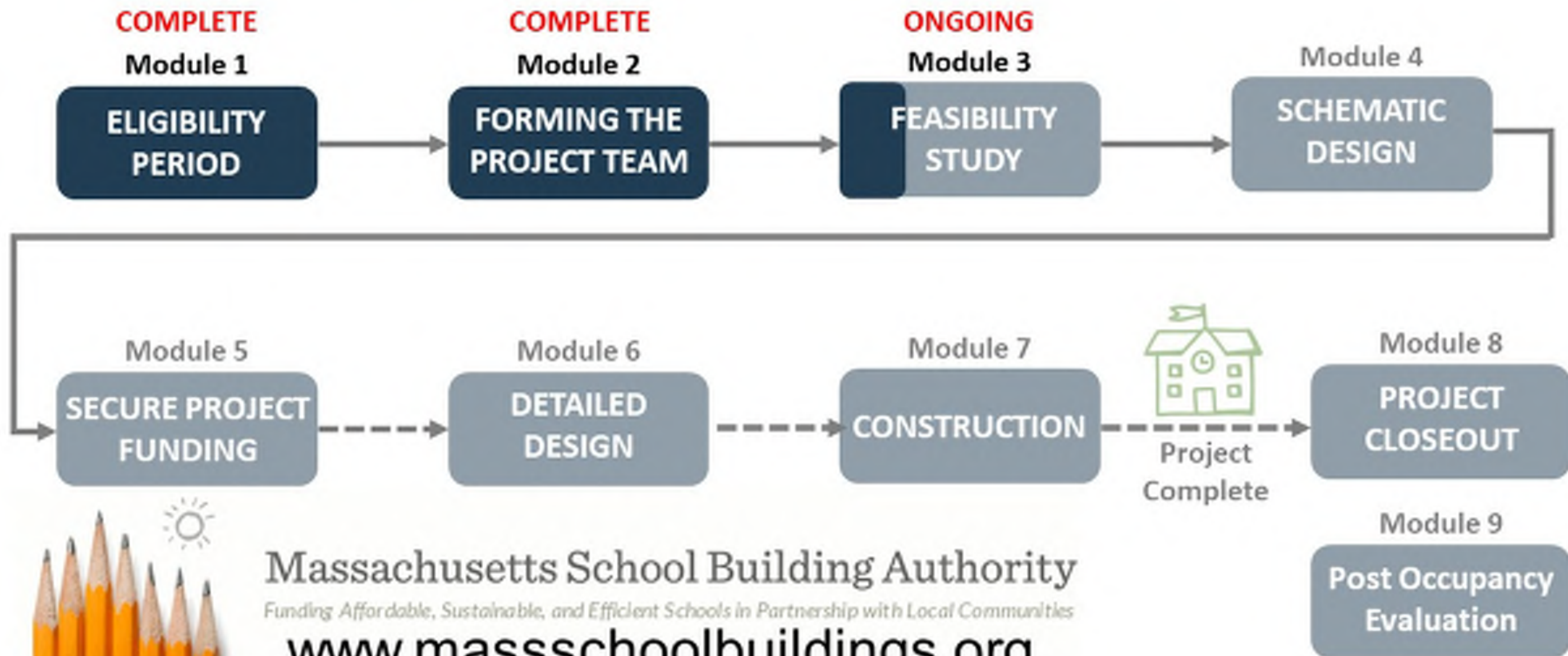
PRODUCTIVITY !!

3

W3

PROJECT TIMELINE

MSBA Process



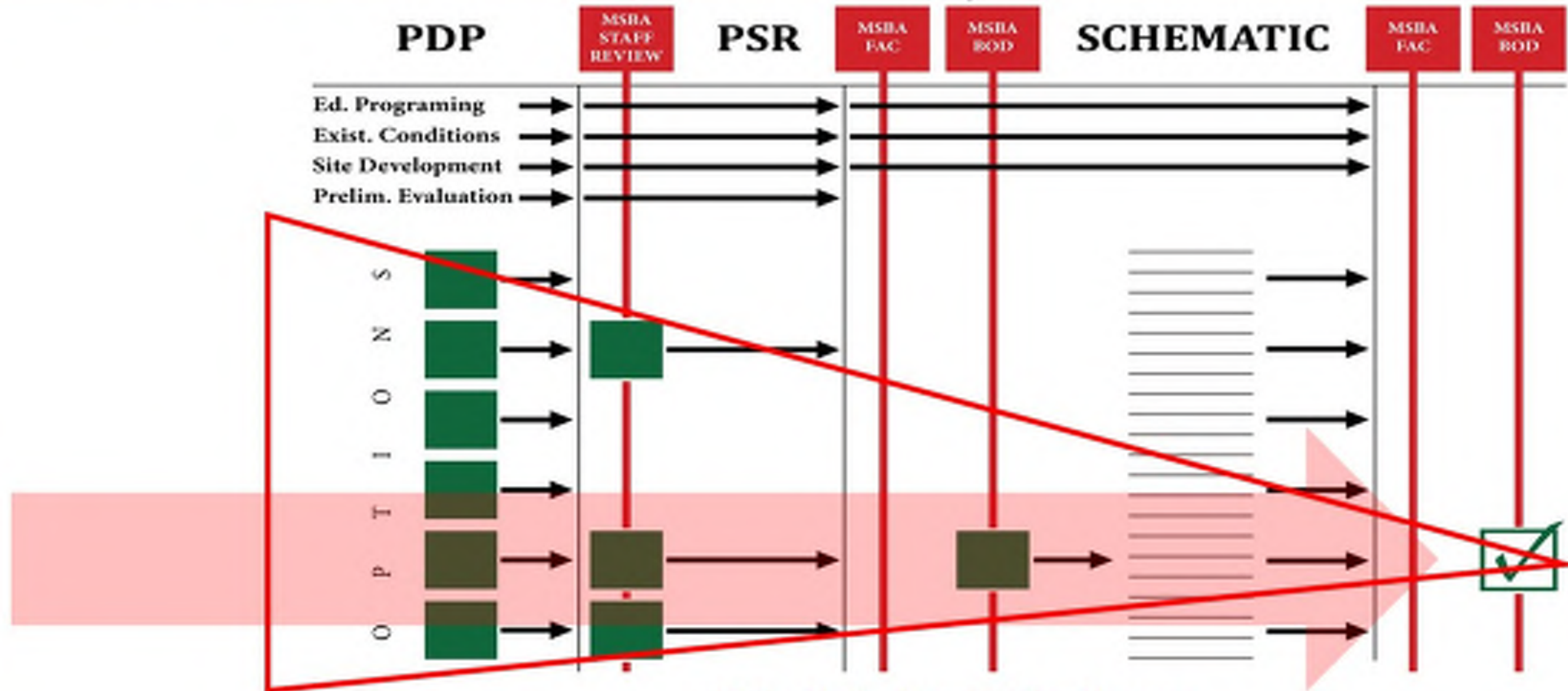
Massachusetts School Building Authority

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

www.massschoolbuildings.org

PROJECT TIMELINE

MSBA Process



PDP = Preliminary Design Program
PSR = Preferred Schematic Report



Step 1

Preliminary Design Program (PDP)

OCT. 27
2023

MSBA Staff Review

- + Evaluation of Existing Conditions
- + Visioning & Educational Program
- + Initial Educational Space Summary
- + Evaluation of Existing Elementary Schools (Grade Configurations)
- Evaluation of Alternative Options

Step 2

Preferred Schematic Report (PSR)

JAN. 25
2024

MSBA Board of Director's Mtg.
April, 2024

- Final Evaluation of Existing Conditions
- Final Educational Program
- Development of Preferred Solution
- District Evaluation of Grade Configuration (6-8 vs. 5-8)
- Final Evaluation of Alternatives
District Selects **ONE** option

Step 3

Schematic Design Submission

JUN. 27
2024

MSBA Board of Director's Mtg.
August, 2024

- Final Design Program
- Site Evaluations
- Develop Exterior Design Aesthetic
- Development of Schematic Design Documents
- Independent Cost Estimates

Existing Conditions

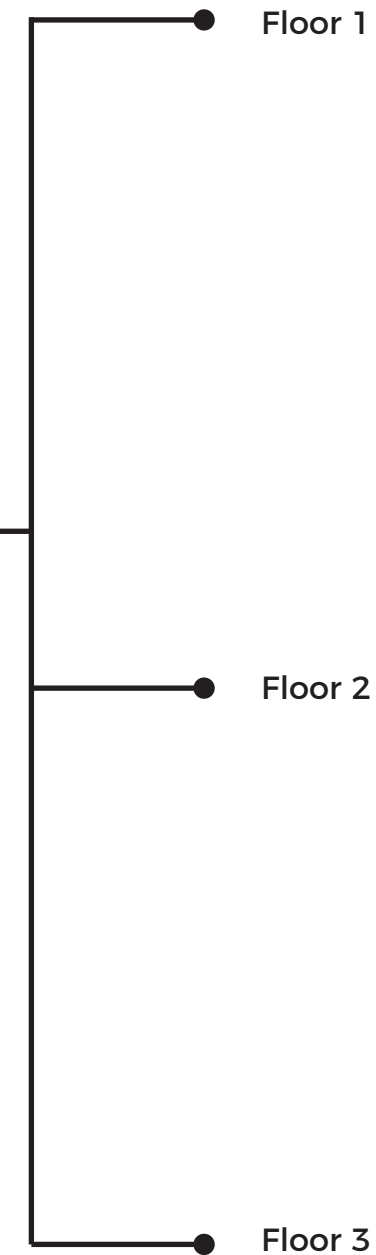
Observations & Analysis

- Site / Civil
- Geotechnical
- Structure
- Architecture
- ADA/Code Compliance
- Mechanical
- Electrical
- Plumbing/Fire Protection
- Technology

Develop a 3D model of the existing building to analyze space and systems

... plus,
continued accumulation
of documents & information

Galvin Middle School



Educational Planning & Programming

Overview

PER
MSBA:

“

To ensure that school projects are responsive to the educational needs of a District, the MSBA requires the District to:
**1) document its educational program and
2) define proposed educational activities.**

Only then can the district work effectively with its designer, OPM, and local stakeholders **to develop, evaluate, and select a design** that supports its educational objectives/needs.

Establishing a comprehensive and thoughtful educational program also **helps to provide for future flexibility** to adapt to changes in programming or teaching methodologies over the useful life of the school.

”

**Recommend
establishing a
Working Group**



DAVID L. THOMPSON, Ed.D.
Superintendent of Schools
ALEXANDER WYETH, Ed.D.
Assistant Superintendent for Curriculum,
Instruction & Assessment

MODULE 3: PRELIMINARY DESIGN PROGRAM

June 1, 2021

1.2 Coakley Middle School Educational Program

Table of Contents

- A. INTRODUCTION
 - a. Vision Statement
 - b. Coakley Middle School Mission
 - c. Historical Context of Norwood
 - d. Educational Vision
- B. GRADE AND SCHOOL CONFIGURATION
- C. CLASS SIZE POLICIES
- D. SCHOOL SCHEDULING METHODS
- E. SPATIAL, ORGANIZATIONAL AND FACILITIES DEFICIENCIES IMPACT
- F. TEACHING METHODOLOGY AND STRUCTURE
- G. GRADE FIVE EXPERIENCE
- H. TEACHER PLANNING AND COLLABORATION
- I. LUNCH PROGRAMS AND DINING
- J. ACCESS AND SECURITY
- K. PERFORMING ARTS
- L. VISUAL ARTS
- M. WELLNESS
- N. SPECIAL EDUCATION
- O. LITERACY AND LANGUAGE
- P. MEDIA, STEM AND TECHNOLOGY EDUCATION
- Q. TRANSPORTATION POLICY
- R. FUNCTIONAL AND SPATIAL RELATIONSHIPS AND KEY ADJACENCIES
- S. COMMUNITY USAGE

Sample Educational Program for
Norwood Public Schools (60 pages)

Educational Visioning



"Information is the
currency of democracy."
Unknown



Educational Planning - Example

DRAFT Initial Space Summaries

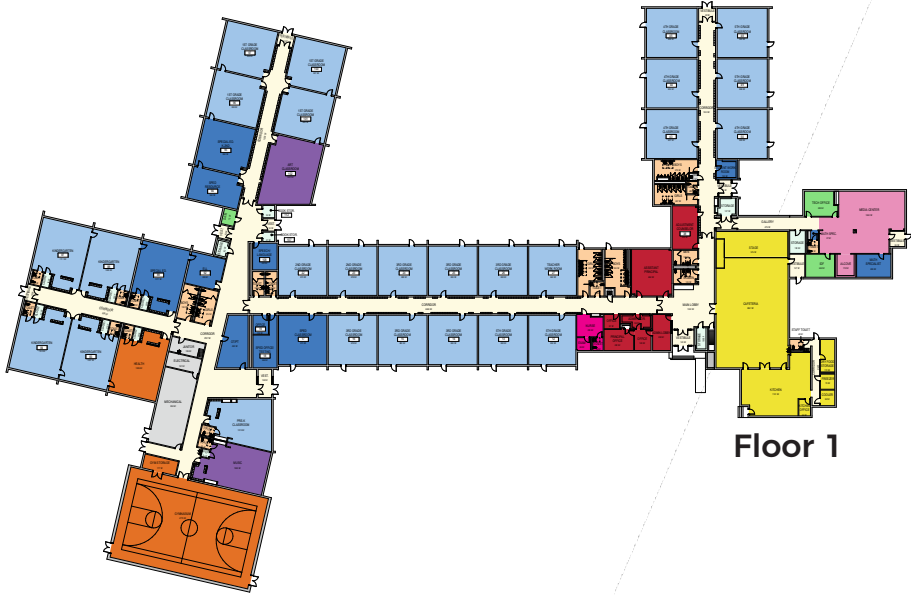
A unique space summary will be created for ALL 9 Alternative Options

Date: 10/27/2023 Preliminary Design Program

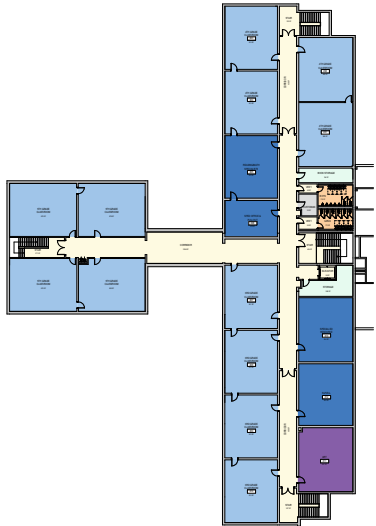
CANTON PUBLIC SCHOOLS GALVIN MIDDLE SCHOOL		EXISTING CONDITIONS			PROPOSED PROGRAM			MSBA GUIDELINES (DO NOT MODIFY) (Refer to Educational Facility Planning for additional information)				
ROOM TYPE	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	COMMENTS		
CORE ACADEMIC			35,559	NEW CONSTRUCTION			66,040			53,650		STE Guidelines Policy
(List rooms of different sizes separately)												
General Classroom	0	0	0	850	39	33,150	900	42	37,800	850 NSF (minimum size) - 950 NSF (maximum size)		
General Classroom	616	1	616			0	900					
General Classroom	763	1	763			0	900					
General Classroom	794	5	3,970			0	900					
General Classroom	801	12	9,612			0	900					
General Classroom	804	1	804			0	900					
General Classroom	813	1	813			0	900					
General Classroom	818	2	1,636			0	900					
General Classroom	826	5	4,130			0	900					
General Classroom	831	1	831			0	900					
General Classroom	835	1	835			0	900					
General Classroom	866	2	1,732			0	900					
General Classroom	887	1	887			0	900					
Total Number of General Academic Classrooms		33										
Small Group Seminar (20-30 seats)	0	0	0			0	500	3	1,500			
Science, Technology, Engineering (STE) Room (Grade 6)	794	1	794	1,080	3	3,240	1,080	5	5,400	1,080 NSF (minimum size); Refer to the STE Guidelines for additional information.		
Science, Technology, Engineering (STE) Room (Grades 6)	801	1	801			0	1,080					
Science, Technology, Engineering (STE) Room (Grade 5)	0	0	0			0						
STE Storage Room	0	0	0	120	3	360	120	5	600	Minimum of (1) 120 NSF STE Storage Room required per STE Room; Refer to the STE Guidelines for additional information.		
Science Classroom / Lab (Grade 7)	777	1	777	1,440	3	4,320	1,440	5	7,200	Assumed schedule: 1 period per day per student; 1,440 NSF (minimum size); Refer to the Science Lab Guidelines for additional information		
Science Classroom / Lab (Grade 7)	855	2	1,710			0	1,440					
Science Classroom / Lab (Grade 8)	863	2	1,726	1,440	3	4,320	1,440					
Science Classroom / Lab (Grade 8)	1,032	1	1,032			0	1,440					
Prep Room - 7th	224	1	224	200	3	600	200	5	1,000	(1) 200 NSF Prep Room required per Science Classroom / Lab		
Prep Room - 8th	295	1	295	200	3	600	200					
Central Chemical Storage Room	0	0	0	150	1	150	150	1	150	(1) 150 NSF Central Chemical Storage Room required		
Multi Language Classroom	184	1	184	450	4	1,800						

Capacity Evaluation of Elementary Schools

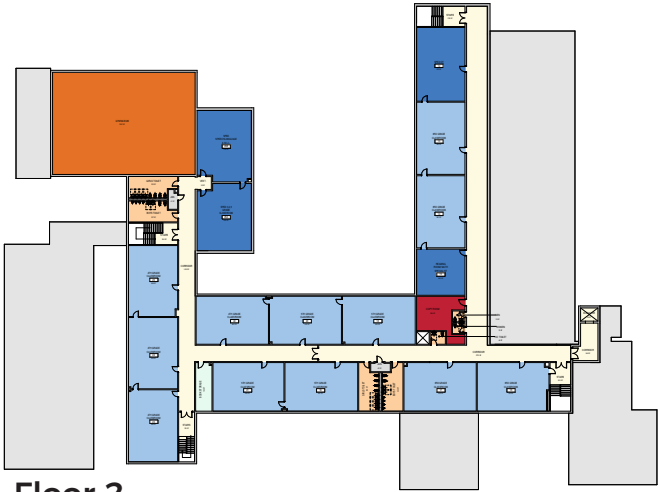
(Quantity and size of existing spaces)



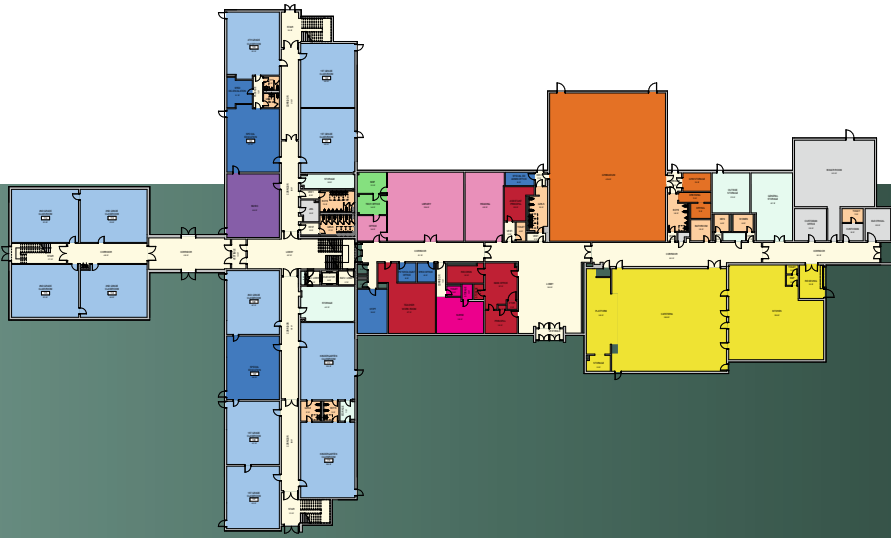
Luce ES



Floor 2



Floor 2



Floor 1
Hansen ES



Floor 1
Kennedy ES

Evaluation of Alternative Options

The PDP Submission will consider the following:

#	Grades	Option for Consideration	Enrollment	GSF	Cost/SF (Renovation)	Cost/SF (Add/New)	Total Est. Cost
1	6-8	BASE REPAIR	766 (current)				
2	6-8	ADDITION/RENOVATION	760				
3	6-8	ADDITION/RENOVATION (w/ Auditorium)	760		TBD		
4	6-8	NEW CONSTRUCTION	760				
5	6-8	NEW CONSTRUCTION (w/ Auditorium)	760				
6	5-8	ADDITION/RENOVATION	1020				
7	5-8	ADDITION/RENOVATION (w/ Auditorium)	1020				
8	5-8	NEW CONSTRUCTION	1020				
9	5-8	NEW CONSTRUCTION (w/ Auditorium)	1020				

Next Steps

Item 1

Upcoming Meetings

Building Committee

October 18
November 15
December 20

School Committee

October 5 & 19
November 2 & 16
December 7 & 21

Item 2

Critical Votes

Submit PDP to MSBA

O c t o b e r

Auditorium or Cafetorium BC

and

Grade Configuration SC

D e c e m b e r

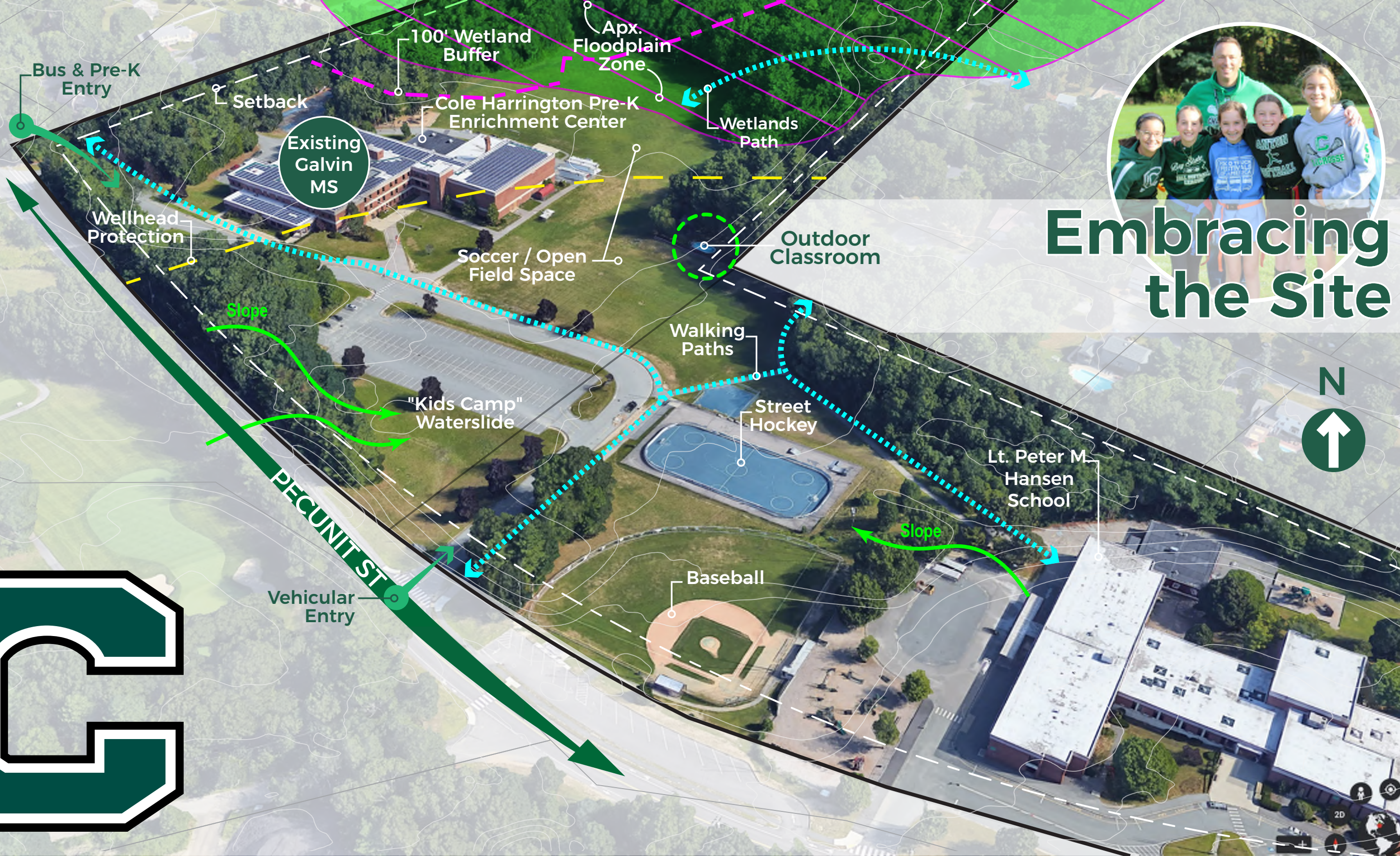
Item 3

Community Engagement

Community Forums

September 27
October 25
November 20
December 20





Embracing the Site



CONSTRAINTS

- Property lines & setbacks
- Wellhead protection zone
- Aquifer recharge
- Floodplain
- Wetlands
- Topography
- Construction Phasing



What is important to you in the project from a **Community Use** perspective?

ATHLETICS

- Youth Soccer
- Youth Lacrosse
- Youth Football
- Other?



What is important to you in the project from a **Community Use** perspective?

EVENTS

SITE

- Kids Camp

BUILDING

- Open houses
- Graduations/promotion ceremonies
- Theater productions
- Concerts
- Athletic events



What is important to you in the project from a **Community Use** perspective?

AMENITIES

- Trails / Paths
- Learning opportunities
- Athletic Fields
- Playgrounds



What is important to you in the project from a **Community Use** perspective?

ACTIVITY 1

PARTICIPANTS PERSPECTIVE

- Are you a direct abutter?
- Do you currently have kids or have had kids in the school system?
- Did your kids play youth sports?
- Do you utilize the site currently?
(other than youth sports)



What is important to you in the project from a **Community Use** perspective?

ACTIVITY 2

POST-IT NOTES

Write one word(s) you feel best supports community use

or

what you are looking for from a community use perspective?

When finished, place it on the floor map where you feel best represents the item



What is important to you in the project from a Community Use perspective?

ACTIVITY 3

SITE CONNECTIONS

How is the site currently accessed?

- Existing trails
- Poetry trail
- Connection to Hansen ES



What is important to you in the project from a **Community Use** perspective?