W. EDWARD BALMER SCHOOL



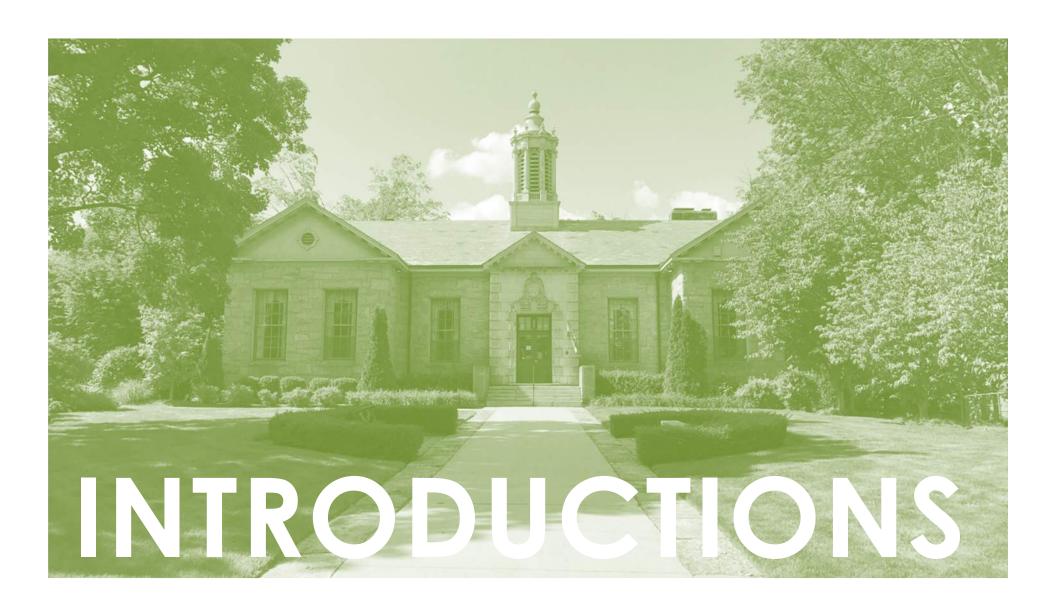








- 1. Introductions
- 2. Process and Schedule
- 3. Defining the Need
- 4. Design Options Evaluated
- 5. Project Cost Updates
- 6. Next Steps
- 7. Questions, Comments, Feedback



SCHOOL BUILDING COMMITTEE:

Joseph Strazzulla

James Marzec

Michael LeBrasseur

Adam Gaudette

Steven Gogolinski

Dr. Catherine Stickney

Melissa Walker

Steve Von Bargen

Karlene Ross

Jill Healy

Kathleen Perry

Paul Bedigian

Jeffrey Tubbs

Peter L'Hommedieu

Jeff Lundquist

Andrew Chagnon

Spencer Pollock

Chair, School Building Committee

Member. Board of Selectmen

Chair, School Committee

Town Manager

Member, Finance Committee

Superintendent of Schools

School Business Manager

Director of Facilities & Operations

Principal, Balmer Elementary School

Principal, Northbridge Elementary School

Director of Pupil Personnel Services

Building, Planning, Construction Comm.

Community Member

Community Member

Community Member

Community Member

Parent Representative

study team



study team

OWNER'S PROJECT MANAGER (OPM)

Symmes Maini & McKee Associates

DESIGNER (Architect) and its team of CONSULTANTS

Dore & Whittier Architects

PUBLIC SCHOOL CONSTRUCTION PARTNER

Massachusetts School Building Authority (MSBA)



PROJECT NEED:

The W. Edward Balmer Elementary School is an aged facility requiring significant upkeep, expenditures which will not result in long-term educational benefits.

Northbridge residents voted to approve this Feasibility Study and seek a grant from the MSBA to address these conditions at its May 3, 2016 Special Town Meeting.





MASSACHUSETTS SCHOOL BUILDING AUTHORITY (MSBA) PROCESS:

Partners with the District to support the design and construction of public school facilities that are:

- Educationally Appropriate
- Flexible
- Sustainable
- Cost-Effective

MSBA will fund 59.21% plus incentives of <u>eligible</u> project costs for an approved project if accepted by the voters of Northbridge.

FEASIBILITY STUDY PHASE SCOPE:

- Two grade configurations/enrollments/school sizes:
 - Grades 2-4 (510 students)
 - Grades PK-5 (1030 students)
- Educational Program Requirements
- Space Program
- Location/site
- Conceptual design alternatives:
 - Renovation of existing (bring up to code)
 - Renovation/addition (like-new interiors)
 - New Construction
- Conceptual Cost Estimates
- Select Preferred Alternative

Devise several alternatives

Narrow from several to few



Narrow from few to one



study process

Massachusetts School Building Authority

Deborah B. Goldberg

James A. MacDonald

John K. McCarthy
Executive Director / Deputy CEO

Chairman, State Treasurer

Chief Executive Officer

February 14, 2018

Mr. Charles Ampagoomian, Jr., Chair Northbridge Board of Selectmen Northbridge Town Hall 7 Main Street Whitinsville, MA 01588

Mr. James R. Marzec, Member Northbridge Board of Selectmen Northbridge Town Hall 7 Main Street Whitinsville, MA 01588 MSBA Board Vote, February 14, 2018 Approval to proceed to Schematic Design Phase

Re: Town of Northbridge, W. Edward Balmer Elementary School

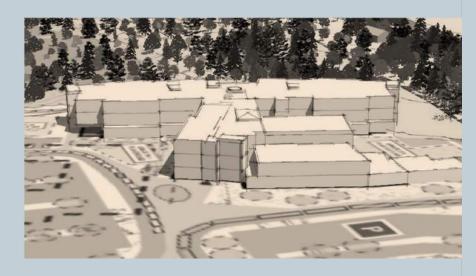
Dear Mr. Ampagoomian and Mr. Marzec:

I am pleased to report that the Board (the "Board") of the Massachusetts School Building Authority (the "MSBA") has voted to approve the Town of Northbridge (the "Town"), as part of its invitation for Feasibility Study, to proceed into schematic to replace the existing W. Edward Balmer and the Northbridge Elementary Schools, with a new facility that serves grades PK-5 on the existing site of the W. Edward Balmer Elementary School (the "proposed project").

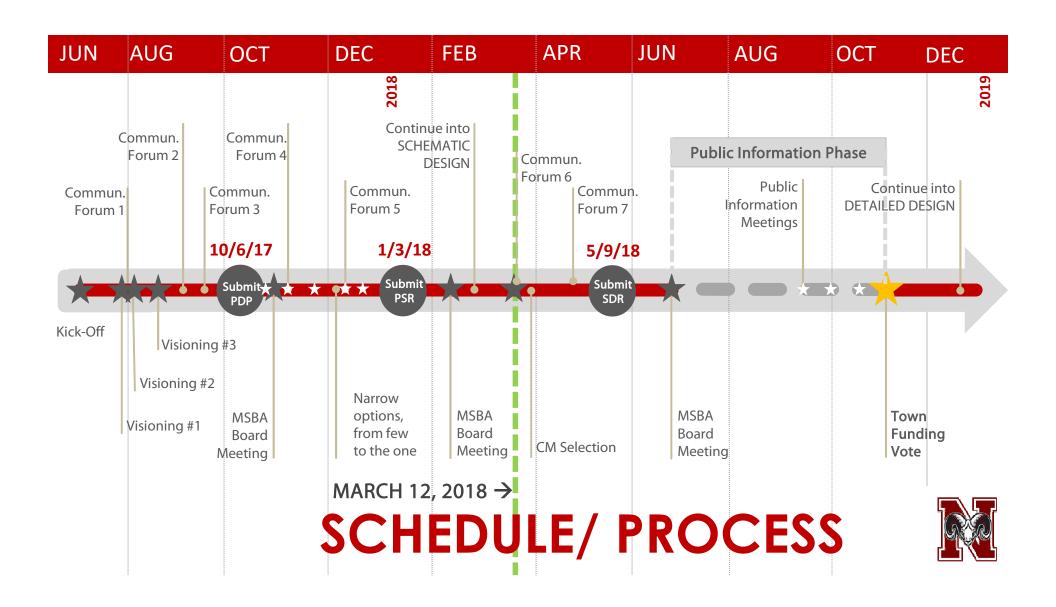


SCHEMATIC DESIGN PHASE SCOPE:

- Preferred Alternative selected
- Develop design of this alternative:
 - Site/Civil/ Landscape
 - Architectural/ Code
 - Structural
 - Mechanical/Electrical
 - Plumbing/Fire Protection
 - Technology
 - Food Service
 - Safety and Security Planning
- Conceptual Cost Estimates
- Evaluate Budget
- Prepare for Project Funding Votes







study process

COMMUNITY OUTREACH

Public Meetings, Town Board Updates, and Community Forums

- 20 School Building Committee meetings
- 6 Community Forums
- Town Board Presentations/Meetings
 - Finance Committee
 - School Committee
 - Safety Committee
 - Recreation Committee
 - Council on Aging
 - Board of Selectmen

Community-Wide Surveys

 2 web-based surveys with broad community participation

Televised School Building Committee Meetings and Community Forums

 Transparent process keeps the community informed

Project Website and Email

Project Website: https://www.nps.org/sbc

Project Email: SBC@nps.org







DEFINING THE NEED

- Need a long-term solution to resolve deteriorating school buildings
- Provide educational spaces to meet MSBA standards
- Update the school to meet Educational Visioning Session goals
- Provide 21st century educational spaces
- Provide schools that are safe, code-compliant, and places
 Northbridge can be proud of



BALMER: EXISTING PHYSICAL LIMITATIONS

Built 1968

Building Issues:

- Windows/ Curtain Wall
- Exterior Walls/ Thermal Insulation
- Roof patched and leaky
- Ceilings/ Interior Walls
- Cracks/ Interiors worn

MEP FP Issues:

- Original Mechanical/ Electrical/ Plumbing systems beyond expected lifespan
- Low Efficiency
- No Sprinkler System
- Technology exposed to room













N.E.S. Modulars on leased land \$27K per year





N.E.S.: EXISTING PHYSICAL LIMITATIONS

Built 1952/ 1983/ Modulars 2000

Architectural Issues

- Windows Drafty / Roof Leaky
- Exterior Walls/ Insulation
- Interiors Worn

MEP FP Issues:

- Original Mechanical/ Electrical/ Plumbing systems beyond expected lifespan
- Low Efficiency
- No Sprinkler System
- Technology exposed







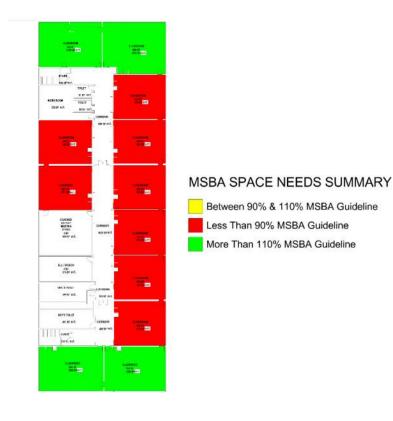




space assessment

BALMER: EXISTING EDUCATIONAL LIMITATIONS





FIRST FLOOR PLAN

SECOND FLOOR PLAN



space assessment

N.E.S.: EXISTING EDUCATIONAL LIMITATIONS





SECOND FLOOR PLAN

MSBA SPACE NEEDS SUMMARY

- Between 90% & 110% MSBA Guideline
- Less Than 90% MSBA Guideline
 - More Than 110% MSBA Guideline

EXISTING EDUCATIONAL LIMITATIONS

Grade 2-4 Option (510 enrollment):

• Existing (Balmer): 71,871 GSF

Proposed (meets MSBA standard): 89,463 GSF

Existing Balmer School is 19.7% undersized

Grade PK-5 Option (1030 enrollment):

Existing (Balmer + NES)
 128,431 GSF

Proposed (meets MSBA standard): 172,845 GSF

Existing Balmer + NES space is 25.7% undersized







DESIGN OPTIONS EVALUATED



B2 \$40.5M



C2 \$60.0M



C3.1A \$59.9M



C3.1B \$55.1M



Balmer + NES CODE/ DM ONLY

\$53.0M

total



C3.2 \$58.5M



C3.3 \$62.5M



C5 \$55.7M

OPTIONS REVIEW WITH COST TO TOWN

Estimated costs are preliminary and subject to change as the project is refined.



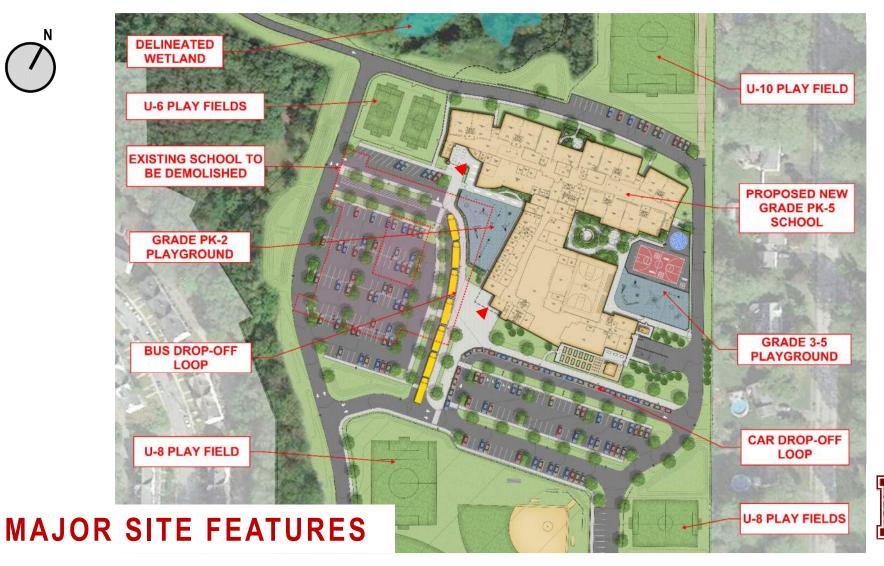
THE DESIGN





MAJOR SITE FEATURES

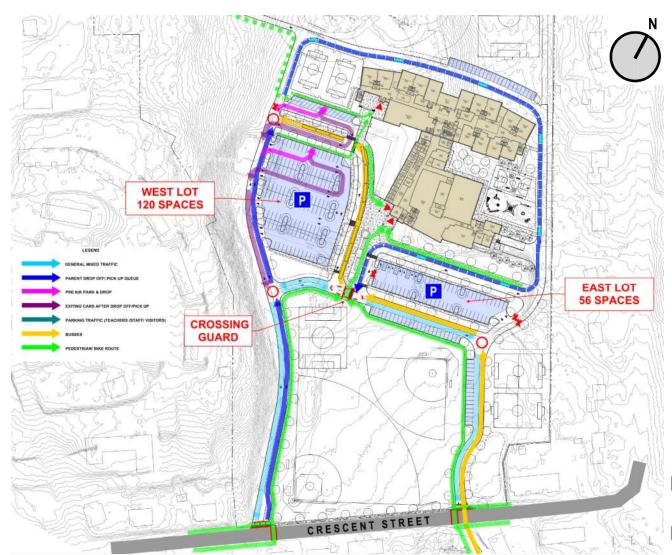




CIRCULATION SITE

SITE CIRCULATION

- Bus and Car circulation separated
- Bike/Ped minimal crossing points
- Access to parking and drives at all times
- 254 parking spaces
- 78 queue spaces
- 32 PK-K drop spaces
- 10 Bus spaces



CIRCULATION

SITE



VIEW FROM SOUTHWEST SITE ENTRANCE



AERIAL VIEW FROM SOUTHWEST



AERIAL VIEW FROM SOUTHEAST



ENTRY VIEW FROM SOUTH



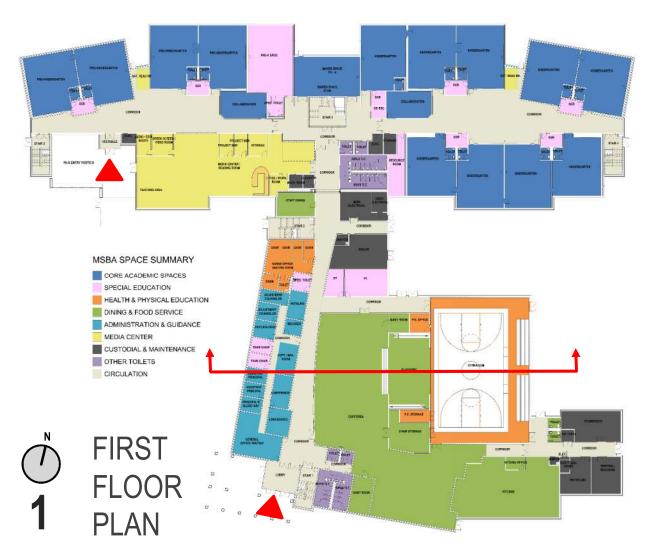
VIEW FROM WEST PARKING LOT



EARLY EDUCATION ENTRY

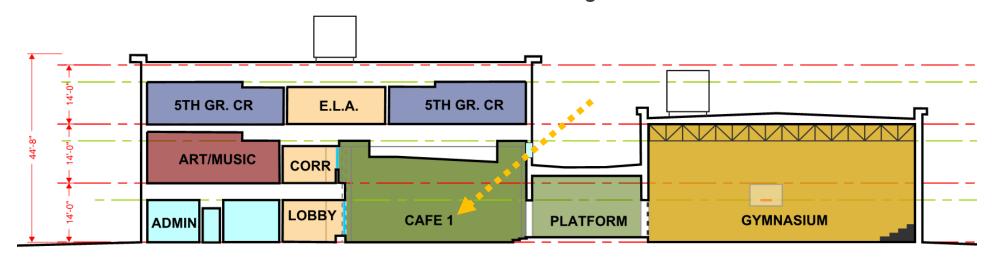


REAR AERIAL VIEW FROM NORTHEAST

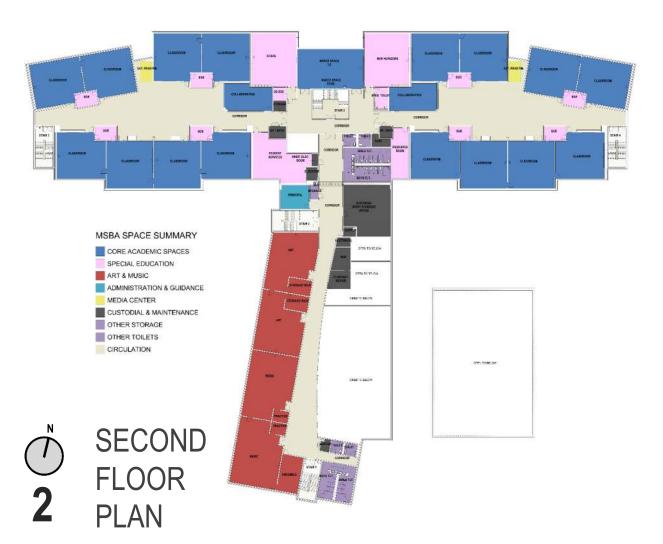


- Classroom pairs split to let in light; creates reading nook
- Cafeteria separated into two areas
- Stage between Café 1 and Gym
- Café 1 is a two-story space
- Boiler and Electrical in center of building

- Floors related through vertical spaces
- Dual utility of platform Café/Gym
- Natural light & views into Café



BUILDING SECTION E-W THRU "PUBLIC" WING

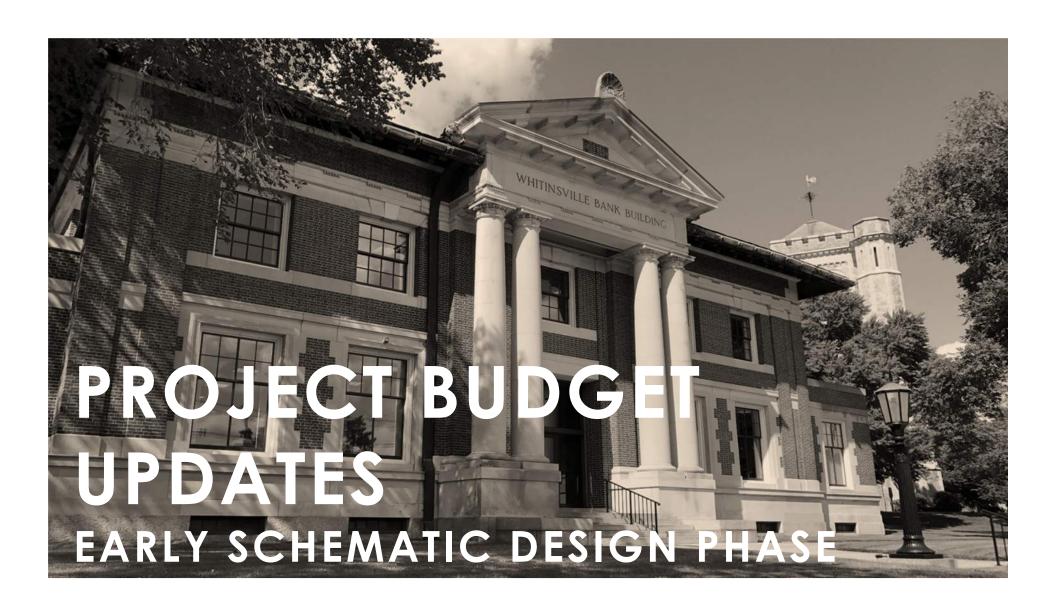


- Maker spaces central to plan
- Light well provides connection from stair hall to library
- Art/Music on balcony looking over Cafe1, at stage
- Custodial storage and shop central to building, 2nd level



- Further simplified geometry
- Main "open" stair at crossing with skylight above
- Light well provides connection from stair hall to library
- "Well" stair central to principals' offices





MSBA REIMBURSEMENT PROCESS

- MSBA will reimburse all Eligible Costs, at the District Base Rate
 (59.21% for Northbridge, up from 57.11%), plus bonus points.
- Examples of Ineligible Costs include:
 - Site costs over 8%
 - Building costs over \$333/SF (up from \$326/SF)
 - Asbestos flooring abatement
 - FF&E/ Technology costs over \$2,400 per student
 - Legal Fees, Moving Expenses, Construction contingencies over
 1% for new construction or 2% for renovations.
 - Classroom modulars used for temporary swing space



ESTIMATED PROJECT REIMBURSEMENT RATE FOR ELIGIBLE COSTS

Base Reimbursement Rate	59.21 %	
Maintenance	1.57%	
CM @ Risk	1.00%	
Renovation	0%	
Green Schools	2.00%	
*Total Reimbursement Rate	63.78%	
*Reimbursement on Eligible Costs		

PROJECT COST – EARLY SCHEMATIC PHASE

Project Cost	\$105.1M
Contingencies	\$5.7M
FF&E	\$3.5M
Fees & Expenses	\$14.5M
Construction Cost	\$81.4M



ESTIMATED PROJECT COST AND MSBA REIMBURSEMENT (EARLY SCHEMATIC PHASE)

Project Cost \$105.1M

Approximate MSBA Grant \$49.9M

Approximate Project Cost to Northbridge

\$55.2M



TAX IMPACT (EARLY SCHEMATIC PHASE)

Project Cost to Northbridge

\$55.2M

Annual Tax increase on Average Home

\$602.92

Based on 30 year term at 5% interest rate

(\$2.00 per \$1000 of valuation)

Annual Tax increase on Average Home

\$777.01

Based on 20 year term at 5% interest rate

(\$2.58 per \$1000 of valuation)

Average assessed home value is \$301,000



SCHEMATIC DESIGN COST ESTIMATE SCHEDULE

3/20/18: Project pricing drawings and specs going to

Estimator and Construction Manager

4/12/18: Cost estimate reconciliation

4/17/18: Committee review and discuss

4/23/18: Schematic Design Budget shared in Public

Forum #7



DETAILED DESIGN AND CONSTRUCTION SCHEDULE

December 2018: Commence Detailed Design

Summer 2019: Commence Site Preparation Work

August 2021: Open New Balmer School

December 2021: Complete Demolition and Sitework





NEXT STEPS

- March 14, 2018 Construction Manager (CM) Interviews
- March 20, 2018 School Building Committee Meeting CM Hired
- April 23, 2018 Community Forum #7
- May 9, 2018 Submit Schematic Design (SD) documents to MSBA
- June 27, 2018 MSBA board meeting to approve project to bring to voters
- Fall 2018 Town Funding Vote

COMMUNITY RESOURCES

Project Website:

https://www.nps.org/sbc

Project Email: SBC@nps.org



