Welcome
Your Speakers Today

Massachusetts School Building Authority
- James A. MacDonald, CEO
- Barbara Hansberry, Director of Strategic Planning

Harvard Public Schools
- Dr. Linda Dwight, Superintendent
- Dr. Rebecca Katsh-Singer, Principal
- SusanMary Redinger, Chair

Project Team
- Thomas P. Murphy, AIA, NV5
- Laurence Spang, AIA, Arrowstreet
- Ryan Lynch, Shawmut Design and Construction
Today’s Agenda

8 – 8:25  Welcome

8:25 – 9:50  Session 1: The Learning Environment
• Educational Benefits for Student Learning  Dr. Linda Dwight
• Creating a Sense of Identity and Place  Larry Spang
• Q+A

Break - 10 Minutes

10 – 10:45  Building Tour

10:45 – 11  Q+A

11 – 12:30  Session 2: Working with the Community
• Getting to Yes  SusanMary Redinger
• A Building for Harvard  Larry Spang
• Managing the Process  Tom Murphy
• Building a School  Ryan Lynch
• Q+A
Educational Benefits for Student Learning
HES Visioning Committee

Goals

• Create spaces that will enhance learning beyond the classrooms and promote 21st century skills
• Enhance support for Special Needs
• Build a sense of a learning community
• Provide advanced technology with future flexibility
• Provide an optimal learning environment
• Create a building that is safe and secure while providing for community use
We commit to providing a high quality education centered around dynamic learning and personal well-being in a community where everyone can find belonging.
Healthy Classrooms

- Healthier Materials
- Ergonomic Furniture
- Daylight & Views
- Operable Windows
- Natural Look Materials
- Displacement Ventilation for Thermal Comfort & Air Quality
- Acoustics
- Dimmable Indirect Lighting
Breakout Spaces

Grades K–1

Grades 2–3

Grades 4–5
Gr 2–3 Neighborhood
Open Media Center
Learning Stairs
Art/STEM Room
Natural Daylight

Art Room

Grade 4–5 Breakout Area

Gymnasium
Alternate Learning Spaces
Adapting to the Future

Shared Sinks at Toilet Room
Community Resources
Creating a Sense of Identity and Place
Identity and Place
Identity and Place
Identity and Place
Wayfinding
Q&A / Discussion
Building Tour
Working with the Community
Involve the Community
Document Existing Deficiencies

Preliminary Investigations
Study the Alternatives

<table>
<thead>
<tr>
<th>Scheme 1 Area</th>
<th>± 73,095 SF</th>
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<tbody>
<tr>
<td>Budget Cost/SF</td>
<td>$301</td>
</tr>
<tr>
<td>Total Project Budget</td>
<td>$31,000,000</td>
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<tr>
<td>Anticipated Reimbursement</td>
<td>$15,700,000 (~51.68%)</td>
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<td>Construction Budget (Net to Harvard)</td>
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<th>Scheme 2 Area</th>
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<td>Budget Cost/SF</td>
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<td>Total Construction Budget</td>
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<td>Anticipated Reimbursement</td>
<td>$17,600,000 (~51%)</td>
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<td>Construction Budget (Net to Harvard)</td>
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<th>Scheme 3 Area</th>
<th>± 76,572 SF</th>
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<td>Budget Cost/SF</td>
<td>$360</td>
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<td>Total Construction Budget</td>
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<td>Anticipated Reimbursement</td>
<td>$19,400,000 (~51%)</td>
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<td>Construction Budget (Net to Harvard)</td>
<td>$22,100,000</td>
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<th>Scheme 4 Area</th>
<th>± 73,000 SF</th>
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<td>Budget Cost/SF</td>
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<td>Total Construction Budget</td>
<td>$37,215,000</td>
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<td>Anticipated Reimbursement</td>
<td>$10,693,000 (~45%)</td>
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<td>Construction Budget (Net to Harvard)</td>
<td>$26,522,000</td>
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Notes:
1. MSBA reimbursement has been calculated based on 45% of building construction costs and 8% of site allowance.
Inform the Public

The Vote and Construction Timeline

**YES vote - BUILD A NEW SCHOOL**
Cost: 11% tax increase (based on info from 4/2018)
- Receive $18 million grant from state
- No roof problems

**NO vote - BACK TO DRAWING BOARD**
Cost: 10% tax increase (based on info from 2017)
- Lose grant from state & pay for new feasibility study (adds years to project)
- Roof still gets ice dams, will leak again and need future replacement

It’s $14M using SBC’s own project cost data
Costs for Replacing K-wing and Repairs to 1988 Elementary School Building

<table>
<thead>
<tr>
<th>CONSTRUCTION BUDGET</th>
<th>Total</th>
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<tbody>
<tr>
<td>New roof</td>
<td>$2,584,860</td>
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<tr>
<td>New construction (K-wing)</td>
<td>$2,187,216</td>
</tr>
<tr>
<td>Plumbing/conveying/electrical</td>
<td>$2,041,740</td>
</tr>
<tr>
<td>Fire protection/sprinkler</td>
<td>$530,728</td>
</tr>
<tr>
<td>Heating and ventilation system</td>
<td>$1,421,740</td>
</tr>
<tr>
<td>Equipment/Furnishings</td>
<td>$693,050</td>
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<tr>
<td>Hazardous material/abatement</td>
<td>$460,000</td>
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<tr>
<td>Demolition</td>
<td>$586,290</td>
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<tr>
<td>Construction soft costs (design, printing, benefit, fees, general conditions, contingencies)</td>
<td>$6,182,176</td>
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<tr>
<td>3% annual escalation, construction budget</td>
<td>$1,463,630</td>
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<td>Deficit educational improvements</td>
<td>$2,000,000</td>
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<tr>
<td>Project Costs</td>
<td>$28,370,679</td>
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**What if?**
- Repairing HES could cost $28 million; state would pay nothing
- K-wing upgrade may cost $11 million; state would pay nothing

**The Better Way School**
New Kindergarten Wing
Renovations to the 1988 Building
- New roof
- Improved heating system
- Sprinklers and 2018 code updates

Sources: School Building Committee (April 2018), Harvard Press
Prepare for Debate
Yes to HES
MSBA Core Program Process Overview

Preparation
- Submit a Statement of Interest (SOI)
- Initial Compliance Certification
- School Building Committee
- Educational Profile & Enrollment Process
- Maintenance & Capital Planning Documents
- Local Authorization of Funding

Scope Definition
- OPM Selection
- Designer Selection
- PDP Preliminary Design Program
- PSR Preferred Schematic Report
- Schematic Design Submission
- Module 2: Forming the Project Team
- Module 3: Feasibility Study
- Module 4: Schematic Design
- Module 5: Funding the Project

Scope Monitoring
- Module 6: Detailed Design
- Module 7: Construction
- Module 8: Completing the Project
- Project Complete

MSBA Board Approval
- District Vote
### MSBA Templates

#### Total Project Budget

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Building</td>
<td>$1,000,000</td>
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<tr>
<td>Equipment</td>
<td>$500,000</td>
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<tr>
<td>Land</td>
<td>$250,000</td>
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<tr>
<td>Miscellaneous</td>
<td>$100,000</td>
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<tr>
<td>Total</td>
<td>$1,850,000</td>
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#### Green Meadow Elementary School

<table>
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<tr>
<th>Existing Conditions</th>
<th>Total</th>
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<tbody>
<tr>
<td><strong>ROOM</strong></td>
<td><strong>AREA</strong></td>
</tr>
<tr>
<td>breakout</td>
<td>breakntout</td>
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#### PROPOSED

<table>
<thead>
<tr>
<th>Green Meadow Elementary School</th>
<th>Existing Conditions</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td><strong>ROOM</strong></td>
<td><strong>AREA</strong></td>
<td><strong># OF ROOMS</strong></td>
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<tr>
<td>breakout</td>
<td>breakout</td>
<td>breakout</td>
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#### MSBA Guidelines

- [Guideline 1](#)
- [Guideline 2](#)
- [Guideline 3](#)
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>12/1/17</td>
<td>Schematic Design</td>
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<tr>
<td>12/21/17</td>
<td>Schematic Estimate</td>
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<tr>
<td>1/2018</td>
<td>SD Package to MSBA</td>
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<tr>
<td>1/2018 - 2/2018</td>
<td>Project Scope &amp; Budget</td>
</tr>
<tr>
<td>4/7/2018</td>
<td>TOWN MEETING DEBT EXCLUSION VOTE</td>
</tr>
<tr>
<td>4/8/18 - 6/30/18</td>
<td>Design Development</td>
</tr>
<tr>
<td>7/2018</td>
<td>DD Estimate Update</td>
</tr>
<tr>
<td>8/6/2018</td>
<td>Submit DD to MSBA</td>
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<tr>
<td>11/2/2018</td>
<td>60% CDs Issued</td>
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<tr>
<td>11/21/2018</td>
<td>Estimate / Schedule / Logistics Update</td>
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<tr>
<td>2/11/2019</td>
<td>90% Documents Issued</td>
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<tr>
<td>2/25/2019</td>
<td>60% Estimate / Schedule / Logistics Update</td>
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<tr>
<td>3/9/2019</td>
<td>Submit 90% Package to MSBA</td>
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<tr>
<td>1/2019 - 5/2019</td>
<td>Bidding / Final GMP</td>
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<tr>
<td>6/2019</td>
<td>CONSTRUCTION</td>
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<tr>
<td>6/2021</td>
<td>CONSTRUCTION PHASE II: 6/21 - 11/21</td>
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Place in the Community
Oriented for Optimization
Historic Context
Reflecting the Community
Managing the Process
Building a School
## Safety – A Culture of Care

<table>
<thead>
<tr>
<th>Regular Safety Huddles</th>
<th>Communication</th>
<th>Site Accountability</th>
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<tr>
<td>![Safety Huddle Image]</td>
<td>![Communication Image]</td>
<td>![Accountability Image]</td>
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### Zero OSHA Violations
- New England: 9 years company-wide
- 6+ years

### Harvard Hildreth Elementary School
- Site specific health & safety plan

### Site Accountability
- Badging program / CORI checks / Drug testing

### Detailed Construction Management Plan

### Site Specific Safety Plan
- Harvard Hildreth Elementary School

### Clear Easy To Follow Signage
- Think Like A Parent
  - You are nothing without an operational environment to a high level. For the students, faculty, and community at all times.

### Worker Identification
- Mobile app

### Safety Inside and Outside the Fence
- Site accountability
- Regular safety huddles
- Detailed construction management plan
- Site specific safety plan
- Clear easy to follow signage
- Worker identification
- Safety inside and outside the fence
Focus on Education / Community

Not Just Building a Building ... Building a New Learning Experience for Future Leaders
Site Logistics
Phase – 1A: April 2019 – August 2019

- Limited To Bus Use Only: 8:30AM-9:00AM; 2:30PM-3:30PM
- Potential Overflow Parking
- Temp Parking
- Emergency Vehicle Access
- Maintain Emergency Egress
- No Construction Traffic
- Wetlands
- Lost 14 Spots, Add Minimum 14 at Front Circle
- Site Fence and Erosion Control
- Expedited Development of New Access Road
- Shawmut Site Office
- Massachusetts Avenue
Phase – 1B: September 2019 – April 2021
Phase – 2A: April 2021 – May 2021
Phase – 2B: June 2021 – August 2021
Phase – 2C: September 2021 – November 2021

- Potential Overflow Parking
- Shawmut Site Office
- Recycling
- New School Now in Use
- Old School Demolition
- Complete Island When Ring Road Complete
- Massachusetts Avenue
- Fairbank Street
- Wetlands
Project Complete – November 2021