REPLACEMENT OF
BERKSHIRE ELEMENTARY SCHOOL

PRELIMINARY DESIGN PRESENTATION

The Board of Education of Baltimore County
Ms. Verletta White, Interim Superintendent

BERKSHIRE ELEMENTARY SCHOOL
February 06, 2018
AGENDA

• General Information
• Project Goals
• Project Value Engineering Measures
• Project Location
• Site Conditions
• Building Organization
• Renderings and 3D Animations
• Project Schedule Overview
• Questions
GENERAL INFORMATION

• Berkshire Elementary School
  • Replacement of existing SRC 428 building
    • Existing building is over capacity by nearly 20%
  • Redevelopment of GWWO/BCPS Elementary School prototype
    • Site adaptations
    • Education Specification revisions

• Enrollment Information
  • Target SRC 618

• Regional Programs
  • None
PROJECT GOALS

- **Support 21st Century Learning Techniques**
  - Create collaborative expanded learning spaces
  - Shared breakout learning space between classrooms
  - Large group learning spaces away from the classroom
  - Outdoor classroom spaces
  - Centralized multi-functional Media Center
  - Flexible learning spaces (maker space and digital learning)
  - Utilize State-of-the-Art technology

- **Implement Sustainable Design Strategies**
  - Achieve LEED Silver™ rating (Leadership in Energy and Environmental Design) from the United States Green Building Council (USGBC)
  - Maximize energy efficiency
    - Building envelope with high thermal resistance
  - Vegetated (green) roof design that also supports 21st Century Learning

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PROJECT GOALS

• **Promote Safety and Security Objectives**
  • Card reader and security camera system
  • Locked Entry Vestibule for building access
  • Building lighting and landscaping designs maximize visibility/security
  • Separate bus traffic from other vehicular traffic
  • Safe and convenient access for student walkers from northeast and southeast corners of campus
  • Community spaces secured from educational spaces.

• **Unique Design Features**
  • Compact footprint and spatial arrangement maximizes daylight and views
  • Efficient building circulation
  • Additional entry for student walkers shares Main Entry Lobby
  • Building configuration provides ultimate flexibility
    • Standardized Classrooms
    • Extended Learning Areas
    • Multiple Collaborative Learning Spaces throughout
PROJECT VALUE ENGINEERING MEASURES

• Civil/Site
  • Conduct more intensive geotechnical investigations
  • Classify the site soils
  • Building adapts to site conditions (as opposed to site adapting to building)
    • Limit quantity of earth disturbance

• Architectural
  • Improve building efficiency
  • Simplification of building footprint
  • Limit use of concrete masonry partitions
  • Exterior metal stud walls
  • Standardize spaces
  • Standardize window and door openings
  • Reduce vertical circulation
PROJECT VALUE ENGINEERING MEASURES

• Structural
  • Conduct more intensive geotechnical investigations to determine the extent of specialty foundation systems, if needed
  • Mostly structural steel frame
    • Time-saving benefit during Construction

• Mechanical
  • Simplified and standardized Heating and Cooling System that can be adapted to any building & any site
NEIGHBORHOOD MAP
EXISTING CONDITIONS – SITE FEATURES

- Staff Parking
- Bus Drop-Off Loop
- Service Drive
- Student Drop-Off Loop/Visitor Parking
- Playing Fields
- Relocatable Classroom Unit
- Soft Play Area
- Paved Play Area

BERKSHIRE ELEMENTARY SCHOOL
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NEIGHBORHOOD MAP
EXISTING CONDITIONS – BUS SITE CIRCULATION

N. Edna Avenue

Poplar Avenue
Bus Loop

Dead End

Paths of Travel
School Entry

BERKSHIRE ELEMENTARY SCHOOL
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NEIGHBORHOOD MAP
EXISTING CONDITIONS – STUDENT WALKER SITE CIRCULATION

Crosswalk
Crosswalk
Crosswalk

EXISTING BERSKSHIRE EL

Paths of Travel
School Entry

Student Walker Alley Approach/Access
Student Walker Access
Student Walker Alley Approach

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NEIGHBORHOOD MAP
DEVELOPED SITE PLAN – PHASE 1B (LAST DAY OF SCHOOL 2020 – FIRST DAY OF SCHOOL 2020)

Final Phase 1
Grading and Paving
Installed During
Phase 1B

New School &
Amenities Prepared
for First Day of
School During
Phase 1B

Existing School &
Amenities Prepared
for Demolition During
Phase 1B

BERKSHIRE ELEMENTARY SCHOOL
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NEIGHBORHOOD MAP
DEVELOPED SITE PLAN – VEHICLE SITE CIRCULATION

Bus/Service Vehicle Drive
Main Entry Drive
Drop-Off Loop

Paths of Travel
School Entry

Bus Drop-Off
Loading Dock
Bus/Service Vehicle Turnaround

BERKSHIRE ELEMENTARY SCHOOL
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PROTOTYPE EVOLUTION
NORTHEAST AREA ELEMENTARY SCHOOL  BERKSHIRE ELEMENTARY SCHOOL

GYMNASIUM/CAFETERIA WING
CONNECTING CORE
CLASSROOM WING

Northeast Area Elementary School
(Revised to SRC 600 +/-)

BERKSHIRE ELEMENTARY SCHOOL
February 06, 2018
Bus Drive Approach
Looking Southeast from Poplar Avenue
Main Entry Approach
Looking Southeast from Drop-Off Loop
Southeast Student Walker Approach
Looking Northwest from Paved Play Area

BERKSHIRE ELEMENTARY SCHOOL
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West Elevation
From Main Entry Drive

BERKSHIRE ELEMENTARY SCHOOL
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Entry Lobby & Collaborative Learning Spaces
Main Stair Collaborative Learning Space
Shades/Screen Up – View to Campus

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LEARNING SPACE RENDERINGS

Main Stair Collaborative Learning Space
Shades/Screen Down – Presentation Setting

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The Learning Commons

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LEARNING SPACE RENDERINGS

Typical Classroom
Standard Instruction Layout

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LEARNING SPACE RENDERINGS

Classroom Wing Collaborative Learning Area
Upper Level Facing Rooftop Classroom

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End-of-Classroom Wing Collaborative Learning Area

Upper Level

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# PROPOSED PROJECT SCHEDULE OVERVIEW

<table>
<thead>
<tr>
<th>Phase/Activity</th>
<th>Date</th>
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<tbody>
<tr>
<td>Design Start</td>
<td>March 2017</td>
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<tr>
<td>Contract Award</td>
<td>January 2019</td>
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<tr>
<td>Notice To Proceed</td>
<td>February 2019</td>
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<tr>
<td>Building Construction Completion</td>
<td>July 2020</td>
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<tr>
<td>Site Restoration Completion</td>
<td>July 2021</td>
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Thank You

Questions and Answers