New Hampshire Estates Elementary School
Montgomery County Public Schools
Capacity Study Meetings #1 and #2 April 2, 2015
Agenda

- Introductions
- MCPS Presentation
  - Who, What, Where, When, and Why?
- TLP Presentation
  - Project Understanding
  - What is a Capacity Study?
  - The Capacity Study Process
  - Goals of Today’s Meeting
  - Present Design Options
  - Gather Feedback
Address space shortages at elementary schools in the lower section of the Downcounty Consortium

Allow superintendent to make recommendations to address the space shortages as part of the FY 2017–2022 Capital Improvements Program (CIP) in October 2015

Why a Capacity Study?
Learn the following:
- Which schools we can add classrooms to?
- How large the classroom additions can be?
- How much the classroom additions would cost?

Compare cost of construction of additions to the cost of constructing a new elementary school

Paired schools will be looked at as paired and unpaired schools

Board of Education adopted study

Purpose of Elementary Capacity Study
<table>
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<th>School</th>
<th>Grades Served</th>
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<td>Woodlin ES</td>
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Which Schools are in the Study?
Possible classroom additions at 5 of the 12 schools in the study area

- Montgomery Knolls ES
- New Hampshire Estates ES
- Oak View ES
- Pine Crest ES
- Sligo Creek ES

Remaining 7 schools have been studied previously or can’t be made larger

- East Silver Spring ES  Master Planned Addition
- Forest Knolls ES  Completed as part of DCC Capacity Study in 2013
- Highland View ES  Completed in 2011
- Rolling Terrace ES  Completed in 2009
- Woodlin ES  Completed in 2013
- Takoma Park/Piney Branch ES  Can’t be made larger

Possible classroom additions at schools that are over capacity

Possible classroom additions at schools that are not over capacity but could relieve schools that are over capacity through future boundary changes
No sites for future schools will be explored in this study

No boundary changes will be explored as part of this study
## Enrollment Projections

### DCC Study Lower Area: Enrollments and Space

#### pre-K/K-5 Schools

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#### Total Enrollments

- **Capacity:** 6,059
- **Enrollment:** 6,928
- **Space Available/Deficit:** -689

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*The Laketown Partnership*
The superintendent will review the capacity studies and cost estimates.

The superintendent will make a recommendation on classroom additions, a new elementary school, or a combination of both, in late October 2015 as part of the FY 2017–2022 CIP.

The superintendent’s recommendation will include a request for funds to design and construct what is recommended.

What Will Happen After the Study?
If the superintendent recommends a new elementary school, then a site selection advisory committee would be formed next school year to evaluate site options.

Whether the solution to space shortages are classroom additions or a new school, it is likely that some school boundaries will change.

Boundary changes would be timed to occur when the additional capacity becomes available.

In the meantime, schools will be provided with relocatable classrooms.

What Will Happen After the Study?
Provide Capacity Increasing Options

- Consideration must be given to:
  - The existing facility layout
  - The site potentials and constraints

Goals

- Address space shortages
- Compare the cost of multiple additions to the cost of a new school
What is a Capacity Study?

- **Capacity Study** - A Design Investigation of potential classroom additions at multiple schools to increase the program capacity and core capacity of the schools being studied.

- **Core Capacity** – The capacity of the school based on the size of the core spaces (the media center, the cafeteria, the gym).

- **Program Capacity** – The capacity of the school based on the number of classrooms and the programs they host.
The Capacity Study Area

- East Silver Spring
- Forest Knolls
- Highland View
- **Montgomery Knolls***
- **New Hampshire Estates***
- **Oak View***
- **Pine Crest***
- **Piney Branch***
- Rolling Terrace
- Sligo Creek
- **Takoma Park***
- Woodlin

*Schools in color are paired schools*
1. MCPS Develops the Space Summary
2. Architect meets with MCPS and School Staff
3. Architect develops Addition Options
4. Options presented at Community Meetings
5. Feedback provided by the Community
6. Revisions made to the Options
7. Final Presentation made to the Community

The Capacity Study Process
Goals of Today’s Meeting

- Identify Existing Building / Site Conditions
- Present Concept Design Options
  - Based on Space Summary
- Discuss Pros / Cons of each Option
  - Including Additional Issues not Identified in the Options Presented
Current Core Capacity – 640
Current Program Capacity – 444
Current Enrollment (2014-15) - 522
Proposed Core Capacity – 740
Projected Program Capacity w/ Addition – 732/740*
Projected Enrollment 2020-21 – 502
Projected Excess Capacity after Addition – (230/238)*

* Capacities Provided for PreK-2 and PreK-5 Options respectively

Currently has Capacity Deficit (-78)
Currently no Relocatables
Three Story School
Small Site (3.3 Acres)
Paired with Oak View ES
Grades PreK-2
Original School Built in 1973
Additions in 1988 and 2009

Design Issues / Constraints
- Sloping site provides daylighting to Lower Level
- Access Options
- Adjacent Forest (Piney Branch Rd)
The Existing School – Site

- Topography
- Adjacent Forest on Piney Branch Rd.
- Fire Truck Access
The Space Summaries from MCPS identify spaces required to achieve

- **740 Core Capacity and a 732/740* Program Capacity**

  * Capacities Provided for PreK-2 and PreK-5 Options respectively

### Grades PreK-2
- **Net vs. Gross SF**
  - 16,650 Net SF needed
  - @33,000 Gross SF needed

### Grades PreK-5
- **Net vs. Gross SF**
  - 13,900 Net SF needed
  - @28,000 Gross SF needed
Design Option – Grades PreK-2 - Floor Plans

- Three-Story Addition
- Single Loaded Corridor (Not as Efficient as Double Loaded Corridor)
- Create Courtyard
- Loop Circulation on all Three Levels
- 3 new CRs on Lower Level with borrowed light
- Media Center addition for borrowed light

Lower Level Addition – 10,200 SF
Main Level Addition – 13,750 SF
Upper Level Addition – 9,750 SF
Total Addition – 33,700 SF

Lower Level Renovation – 3,500 SF
Main Level Renovation – 850 SF
Upper Level Renovation – 850 SF
Total Renovation SF – 4,350 SF
- Add to Existing Hard Play
- Use North wall of Lower Level Addition as a Retaining wall
- Construction Access at West Property Line or from either University Blvd or Piney Branch Blvd – Latter Requires Coordination with the County
- Mechanical Yard Revisions Required to Accommodate Fire Truck Access to Addition
- Three-Story Addition
- Single Loaded Corridor (Not as Efficient as Double Loaded Corridor)
- Create Courtyard
- Loop Circulation on all Three Levels
- Media Center addition for borrowed light

Lower Level Addition – 6,800 SF
Main Level Addition – 11,750 SF
Upper Level Addition – 9,750 SF
Total Addition – 28,300 SF

Lower Level Renovation – 3,500 SF
Main Level Renovation – 850 SF
Upper Level Renovation – 850 SF
Total Renovation SF – 4,350 SF
- Add to Existing Hard Play
- Use North wall of Lower Level Addition as a Retaining wall
- Construction Access at West Property Line or from either University Blvd or Piney Branch Blvd – Latter Requires Coordination with the County
- Mechanical Yard Revisions Required to Accommodate Fire Truck Access to Addition
Design Options – Grades PreK-2 & PreK-5 – Building Comparison
Design Options – Grades PreK-2 & PreK-5 – Site Comparison