Montgomery Knolls Elementary School

Montgomery County Public Schools

Capacity Study Meetings #1 and #2 April 20, 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>
<thead>
<tr>
<th>School</th>
<th>Grades Served</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Silver Spring ES</td>
<td>pre-K–5</td>
</tr>
<tr>
<td>Forest Knolls ES</td>
<td>pre-K–5</td>
</tr>
<tr>
<td>Highland View ES</td>
<td>K–5</td>
</tr>
<tr>
<td>Montgomery Knolls ES</td>
<td>pre-K–2</td>
</tr>
<tr>
<td>New Hampshire Estates ES</td>
<td>pre-K–2</td>
</tr>
<tr>
<td>Oak View ES</td>
<td>3–5</td>
</tr>
<tr>
<td>Pine Crest ES</td>
<td>3–5</td>
</tr>
<tr>
<td>Piney Branch ES</td>
<td>3–5</td>
</tr>
<tr>
<td>Rolling Terrace ES</td>
<td>pre-K–5</td>
</tr>
<tr>
<td>Sligo Creek ES</td>
<td>K–5</td>
</tr>
<tr>
<td>Takoma Park ES</td>
<td>pre-K–2</td>
</tr>
<tr>
<td>Woodlin ES</td>
<td>K–5</td>
</tr>
</tbody>
</table>

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

What Will the Study Explore?
- No sites for future schools will be explored in this study
- No boundary changes will be explored as part of this study
<table>
<thead>
<tr>
<th>School</th>
<th>Capacity</th>
<th>Enrollment</th>
<th>space available/deficit</th>
<th>Capacity</th>
<th>Enrollment</th>
<th>space available/deficit</th>
<th>Capacity</th>
<th>Enrollment</th>
<th>space available/deficit</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Silver Spring</td>
<td>558</td>
<td>521</td>
<td>-2</td>
<td>558</td>
<td>558</td>
<td>-9</td>
<td>558</td>
<td>558</td>
<td>2</td>
</tr>
<tr>
<td>Forest Knolls</td>
<td>523</td>
<td>733</td>
<td>-210</td>
<td>523</td>
<td>785</td>
<td>-262</td>
<td>523</td>
<td>790</td>
<td>-267</td>
</tr>
<tr>
<td>Highland View</td>
<td>278</td>
<td>422</td>
<td>-144</td>
<td>278</td>
<td>420</td>
<td>-142</td>
<td>278</td>
<td>425</td>
<td>-147</td>
</tr>
<tr>
<td>Rolling Terrace</td>
<td>695</td>
<td>899</td>
<td>-204</td>
<td>695</td>
<td>915</td>
<td>-220</td>
<td>695</td>
<td>942</td>
<td>-247</td>
</tr>
<tr>
<td>Sligo Creek</td>
<td>664</td>
<td>652</td>
<td>-12</td>
<td>664</td>
<td>672</td>
<td>-8</td>
<td>664</td>
<td>666</td>
<td>-12</td>
</tr>
<tr>
<td>Woodlin</td>
<td>462</td>
<td>626</td>
<td>-164</td>
<td>462</td>
<td>629</td>
<td>-167</td>
<td>462</td>
<td>634</td>
<td>-172</td>
</tr>
<tr>
<td>New Hampshire Estates</td>
<td>444</td>
<td>522</td>
<td>-78</td>
<td>444</td>
<td>535</td>
<td>-91</td>
<td>444</td>
<td>533</td>
<td>-89</td>
</tr>
<tr>
<td>Oak View</td>
<td>358</td>
<td>382</td>
<td>-24</td>
<td>358</td>
<td>422</td>
<td>-64</td>
<td>358</td>
<td>443</td>
<td>-85</td>
</tr>
<tr>
<td>Pine Crest</td>
<td>381</td>
<td>474</td>
<td>-93</td>
<td>381</td>
<td>465</td>
<td>-84</td>
<td>381</td>
<td>465</td>
<td>-84</td>
</tr>
<tr>
<td>Takoma Park</td>
<td>584</td>
<td>657</td>
<td>-73</td>
<td>584</td>
<td>665</td>
<td>-81</td>
<td>584</td>
<td>628</td>
<td>-84</td>
</tr>
<tr>
<td>Piney Branch</td>
<td>611</td>
<td>527</td>
<td>84</td>
<td>611</td>
<td>559</td>
<td>52</td>
<td>611</td>
<td>608</td>
<td>3</td>
</tr>
</tbody>
</table>
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
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.
- 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

The Capacity Study Area
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
✓ 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
Understanding the Existing School

- Current Core Capacity – 640
- Current Program Capacity – 501
- Current Enrollment (2014-15) - 513
- Proposed Core Capacity – 640
- Projected Program Capacity w/ Addition – 648
- Projected Enrollment 2020-21 – 479
- Projected Excess Capacity after Addition – 169

- Currently has Capacity Deficit (-12)
- Currently no Relocatables
- Two Story School
- Small Site (7.5 Acres)
- Paired with Pine Crest ES
- Grades PreK-2
- Original School Built in 1957
- 4 Additions in 1969, 1972, 1989 and 2011

- Design Issues / Constraints
  - Multiple Interior Levels, Ramps
  - On Site Forest
The Existing School – Floor Plans

Upper Level

Main Level
The Existing School – Site

- Relatively Small Site
- Level Field Area
- Construction Access
- Staging Location
The Space Summaries from MCPS identify spaces required to achieve
- 640 Core Capacity and a 648 Program Capacity

---

### Montgomery Knolls Elementary School (Grades pre-K–2)
**Square Foot Summary**

When this project is complete, the following spaces are to be provided: Updated 2-4-2015
The capacity will be 648 with a core of 640.

<table>
<thead>
<tr>
<th>Facility</th>
<th>#</th>
<th>Description</th>
<th>Net Sq. Ft.</th>
<th>Total Net Sq. Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Classrooms</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>6</td>
<td></td>
<td>900</td>
<td>5400</td>
</tr>
<tr>
<td><strong>Support Rooms</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Instructional Support Room</td>
<td>3</td>
<td></td>
<td>450</td>
<td>1350</td>
</tr>
<tr>
<td>Testing Room</td>
<td>1</td>
<td></td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>Support Staff Offices</td>
<td>2</td>
<td></td>
<td>150</td>
<td>300</td>
</tr>
<tr>
<td><strong>Counseling Area</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counselor’s Office</td>
<td>1</td>
<td></td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>Itinerant Staff Office</td>
<td>1</td>
<td></td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td><strong>Multipurpose Room</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multipurpose Room (increase existing)</td>
<td>1</td>
<td></td>
<td>800</td>
<td>800</td>
</tr>
<tr>
<td><strong>Building Service Facilities</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Storage</td>
<td>1</td>
<td></td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>PTA Storage</td>
<td>1</td>
<td></td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>6</td>
<td></td>
<td></td>
<td>8800</td>
</tr>
</tbody>
</table>

---

- **Space Summary for Grades PreK-2**
- **Net vs. Gross SF**
  - 8,800 Net SF needed
  - @12,300 Gross SF needed
- No addition required for PreK-5

---

The Space Summaries
- Two-Story Addition
- Add onto existing single loaded corridor

Main Level Addition – 5,100 SF
Upper Level Addition – 5,800 SF
Total Addition – 10,900 SF

Main Level Renovation – 1,200 SF
Upper Level Renovation – 0 SF
Total Renovation SF – 1,200 SF